



*New York State Electric & Gas Corporation
Bridge Street Former Manufactured Gas Plant
Plattsburgh, New York*

ACTIVE SOIL VAPOR SAMPLING SUMMARY REPORT

JUNE 3, 2005



Prepared For:
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Binghamton, New York



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1.0 INTRODUCTION

On behalf of NYSEG (New York State Electric and Gas Corporation), URS Corporation – New York (URS) has prepared this *Active Soil Vapor Sampling Summary Report* for NYSEG's former Manufactured Gas Plant (MGP) on Bridge Street in the City of Plattsburgh, Clinton County, New York (site ID #5-10-016). The site location is shown on Figure 1.

NYSEG has prepared an *Operation, Maintenance, & Monitoring Plan (OM&M Plan)*, which the NYSDEC (New York State Department of Environmental Conservation) approved on August 17, 2004. As part of the *OM&M Plan*, NYSEG conducted a passive soil gas survey in September 2004. The results of the passive soil vapor survey were provided to the NYSDEC in the *OM&M Report* in December 2004. Based on the results of the passive soil vapor survey the NYSDEC and New York State Department of Health (NYSDOH) required that NYSEG collect active soil vapor samples to confirm the concentrations of benzene in soil vapor near the site.

The activities summarized in this *Active Soil Vapor Sampling Summary Report* were conducted in accordance with the December 17, 2004 *Active Soil Vapor Sampling Procedures*, which the NYSDEC approved in a letter dated March 15, 2005. Activities include soil vapor implant installation and soil vapor sample collection.

This *Active Soil Vapor Sampling Summary Report* has six sections. The scope of field activities is summarized in Section 2.0. A summary of the laboratory analytical result is in Section 3.0. A summary of findings is in Section 4.0. Recommendations are in Section 5.0. Section 6.0 list the references used to prepare this report.

2.0 SCOPE OF WORK

This section describes the activities that were completed during the April 2005 soil vapor sampling event. The two tasks completed in April 2005 include:

- Task 1 – Installation of Soil Vapor Sampling Points
- Task 2 – Collection of Active Soil Vapor Samples

The following subsections describe each of these tasks.

2.1 INSTALLATION OF SOIL VAPOR SAMPLING POINTS

On April 5, 2005 URS installed four active soil vapor survey sampling points (SV-05-01 through SV-05-04) at the locations shown on Figure 2. Locations were chosen to correspond to selected September 2004 passive soil vapor survey sampling locations.

Summary of Soil Vapor Sample Implant Locations

April 2005 Active Soil Vapor Sample	September 2004 Passive Soil Vapor Sample	Description
SV-05-01	PSV-04-02	South end of site
SV-05-02	PSV-04-08	Southwest corner of apartment complex
SV-05-03	PSV-04-05	Northwest corner of apartment complex
SV-05-04	PSV-04-04	East of former gas holder

Borings for the sampling points were advanced using two-inch diameter hollow steel rods with an expendable soil vapor implant anchor point. The steel rods were advanced to approximately six inches above the water table or top of bedrock, whichever was most shallow using a combination of a slide hammer and an electric powered jackhammer. A six-inch long double woven stainless steel screen was threaded into the expendable anchor point and connected to the surface with 3/8-inch diameter high density polyethylene tubing. As shown on Table 1, the implant modules were installed at depths between 3.5 and 5.0 feet bgs. The steel rods were removed, leaving the anchor point and implant in place. Clean #00 sand was placed around the screen to four inches above the top of the screen. The remainder of the space between the boring wall and the tubing was filled with granular bentonite. The bentonite was hydrated with potable water and allowed to set for a minimum of one hour before sampling was attempted.

2.2 ACTIVE SOIL VAPOR SAMPLING

On April 5 and 6, 2005, URS collected soil vapor samples from the four sampling points. In addition, one trip blank was submitted to the laboratory for analysis. Analytical results are discussed in Section 3.0.

Tracer gas enclosures were constructed around each implant prior to sampling to monitor the integrity of the implant's surface seal in accordance with the NYSDOH's

Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Enclosures were constructed by smearing a bentonite paste onto the ground surface in a two-foot radius surrounding the implant. Four mil plastic was then pressed into place on top of the bentonite. A five-gallon bucket, with holes cut out to maintain barometric pressure, was then placed upside down over the plastic. Helium tracer gas was released inside the five-gallon bucket. A Mark II helium detector was then attached to the implant tubing and was used to purge the implant and tubing to confirm that a representative soil vapor sample was collected.

A Rae Systems photoionization detector (PID) with part per billion (ppb) sensitivity capability was positioned to monitor the effluent from the helium detector. Helium was not detected in any of the sampling points at a concentration greater than one percent. PID readings ranged from not detected (ND) to 158 ppb at SV-05-04 near the former gas holder.

Helium concentrations and PID readings can be found in Appendix B. Soil vapor implant tubing was then attached to the inlet of the laboratory supplied flow controllers and Summa canisters.

Severn Trent Laboratories, Inc. (STL), of Burlington, Vermont provided flow controllers that were calibrated to collect a six-liter sample over a 1-hour sample period. STL of Knoxville, Tennessee provided certified six-liter (L) Summa canisters, with a minimum vacuum of 27 inches of mercury below atmospheric pressure. Samples were collected so that a vacuum was left upon sample completion to assure that the canister did not leak during transport to the laboratory. In one instance, SV-05-03, the canister was collected after it had returned to ambient pressure. Thus, the sample was deemed invalid and a second sample was collected using a new summa canister from sampling point SV-05-03 on the following day. Sample collection times and summa canister information can be found in Appendix B.

Samples were shipped under Chain of Custody to STL of Knoxville, Tennessee. The samples were analyzed for VOCs plus n-heptane, n-hexane, n-octane, pentane, n-decane, n-dodecane, n-undecane, nonane, n-butane, butylcyclohexane, indane, indene, isopentane, 1,2,3-trimethylbenzene, 2,2,4-trimethylpentane, 2,3-dimethylheptane, 2,3-dimethylpentane, and naphthalene using EPA Method TO-15.

3.0 LABORATORY ANALYTICAL RESULTS

This section summarizes the laboratory analytical data for the four active soil vapor samples and one trip blank that were collected in April 2005. The analytical results for the active soil vapor samples are summarized on Tables 2 and 3. The results of the analyses are reported in microgram per cubic meter ($\mu\text{g}/\text{m}^3$). No VOCs were detected above the laboratory reporting limits in the trip blank.

The NYSDOH has not established standards or guidance values for soil vapor. The NYSDOH provides a preliminary set of background levels found in control homes throughout New York State between 1997-2003 in their February 2005 Draft *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. These background level concentration ranges have been used as comparison criteria for the results of the active soil vapor sampling.

Summary of Compounds Detected in Active Soil Vapor Samples (April 2005)

Compound	Number of Detects (out of 4)	NYSDOH Background Levels for Indoor Air ^(a) ($\mu\text{g}/\text{m}^3$)	Maximum ($\mu\text{g}/\text{m}^3$)
Potential MGP-related Compounds			
Benzene	2	1.2-5.7	6.5 at SV-05-04
Toluene	3	4.2-25	19 at SV-05-01
Ethylbenzene	1	0.43-2.8	2.1 at SV-05-01
m&p-Xylene	1	0.52-4.7	7.7 at SV-05-01
o-Xylene	1	0.39-3.1	2.2 at SV-05-01
1,2,4-Trimethylbenzene	1	0.78-4.4	2.1 at SV-05-01
n-Butane	3	NA	6.6 at SV-05-01
Pentane	3	NA	3.3 at SV-05-01
Isopentane	2	NA	7.5 at SV-05-01
n-Hexane	2	0.63-6.5	2.2 at SV-05-01
n-Heptane	2	NA	3.3 at SV-05-01
n-Octane	1	NA	3.0 at SV-05-01
Nonane	1	NA	2.9 at SV-05-01
n-Decane	2	NA	6.0 at SV-05-01
n-Undecane	1	NA	28 at SV-05-01
n-Dodecane	1	NA	89 at SV-05-01
Non-MGP-related Compounds			
Tetrachloroethene	2	<0.25-1.2	5.2 at SV-05-01
1,1,1-Trichloroethene	1	<0.25-1.4	3.2 at SV-05-01
Trichlorofluoromethane	3	NA	4.4 at SV-05-01
Dichlorodifluoromethane	4	NA	300 at SV-05-02
Chloroform	1	<0.25-0.54	16 at SV-05-03

Notes:

(a) NYSDOH Summary of Background Levels for Selected Compounds (NYSDOH Study; Homes in NYS 1997-2003; Indoor)

NA – Not Available

As shown, the highest concentrations of individual VOCs were generally found in the sample collected from SV-05-01, which is on the south side of the site.

Potentially MGP-related VOCs (benzene and m&p-xylenes) were detected in the soil vapor samples at concentrations that slightly exceed the NYSDOH's indoor air background concentrations.

Benzene was detected in the samples from SV-05-01 (5.7 $\mu\text{g}/\text{m}^3$) and SV-05-04 (6.5 $\mu\text{g}/\text{m}^3$). Both locations are near the former manufactured gas holder. Benzene was not detected in the samples collected along the western side of the apartment complex that is east of the former MGP site. The NYSDOH indoor air background range for benzene is 1.2 $\mu\text{g}/\text{m}^3$ to 5.7 $\mu\text{g}/\text{m}^3$.

The concentration of m&p-xylenes detected in one sample (7.7 $\mu\text{g}/\text{m}^3$ at SV-05-01) was greater than the NYSDOH background concentration range for indoor air (0.52 $\mu\text{g}/\text{m}^3$ to 4.7 $\mu\text{g}/\text{m}^3$). Sample location SV-05-01 is near the former gas holder. m&p-Xylenes were not detected in any of the three remaining soil vapor samples.

Some non-MGP-related compounds (tetrachloroethene, 1,1,1-trichloroethane, and chloroform) were also detected in some of the soil vapor samples at concentrations greater than the NYSDOH's indoor air background concentrations.

Tetrachloroethene (PCE) was detected in two locations. Sample SV-05-01 had concentration of PCE of 5.2 $\mu\text{g}/\text{m}^3$. Sample SV-05-04 had a concentration of PCE of 3.7 $\mu\text{g}/\text{m}^3$. The NYSDOH indoor air background range for PCE is less than 0.25 $\mu\text{g}/\text{m}^3$ to 1.2 $\mu\text{g}/\text{m}^3$. PCE was detected during the remedial investigation at trace concentrations (up to 0.006 mg/kg) in three surface and near surface soil samples.

1,1,1-Trichloroethane (111-TCA) was detected in the sample from SV-05-01 (3.2 $\mu\text{g}/\text{m}^3$). The NYSDOH indoor air background range for 111-TCA is less than 0.25 $\mu\text{g}/\text{m}^3$ to 1.4 $\mu\text{g}/\text{m}^3$.

Chloroform was detected in the sample from SV-05-03 (16 $\mu\text{g}/\text{m}^3$). The NYSDOH indoor air background range for chloroform is less than 0.25 $\mu\text{g}/\text{m}^3$ to 0.54 $\mu\text{g}/\text{m}^3$. Chloroform was detected during the remedial investigation at trace concentrations (up to 0.003 mg/kg) in two surface and near surface soil samples.

4.0 SUMMARY AND CONCLUSIONS

- No MGP-related compounds were detected in the April 2005 soil vapor samples collected along the western edge of the apartment complex that is east of the former MGP site at concentrations that exceed the NYSDOH's ranges of background levels for residential indoor air.
- Chloroform was the only compound that was detected at a concentration that exceeds the NYSDOH background levels for indoor air at sample locations near the apartment complex that is east of the former MGP site. Chloroform is not an MGP-related compound. Chloroform was detected during the remedial investigation near surface soil south of the former apartment complex.
- Five of the analyzed compounds in the soil vapor samples collected in April 2005 exceed the range of NYSDOH background levels for indoor air quality. 1,1,1-trichloroethene, benzene, m&p-xylenes, and tetrachloroethene were detected in samples collected near the former gas holder (SV-05-01 and SV-05-04).

5.0 RECOMMENDATIONS

Based on the results prescribed in this *Active Soil Vapor Sampling Report*, URS makes the following recommendations.

- Based on the results of the active soil vapor samples, further soil vapor monitoring is not warranted.
- NYSEG will continue to perform annual site inspection and collect groundwater samples in accordance with the ROD and the OM&M Plan. The next event will be in September 2005.

6.0 REFERENCES

New York State Department of Environmental Conservation, March 2004. *Record of Decision – NYSEG Bridge Street Former MGP Site, Plattsburgh, Clinton County, New York – Site Number 5-10-016.*

New York State Department of Health, February 2005. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York.*

URS Corporation, 2004. *Operation, Maintenance, & Monitoring Plan.* August 17, 2004.

URS Corporation, 2004. *Remedial Investigation Report,* January 15, 2004.

TABLES

TABLE 1

SUMMARY OF SOIL VAPOR IMPLANT CONSTRUCTION

**NYSEG-BRIDGE STREET
PLATTSBURGH, NEW YORK**

Location	Date Installed	Implant Depth (feet bgs*)	Screened Interval (feet bgs)	Sand Depth (feet bgs)	Bentonite Depth (feet bgs)
SV-05-01	4/5/2005	3.5	3.0 to 3.5	2.5 to 3.5	0.0 to 2.5
SV-05-02	4/5/2005	4.0	3.5 to 4.0	3.0 to 4.0	0.0 to 3.0
SV-05-03	4/5/2005	5.0	4.5 to 5.0	4.0 to 5.0	0.0 to 4.0
SV-05-04	4/5/2005	4.0	3.5 to 4.0	3.0 to 4.0	0.0 to 3.0

notes:

* - Feet below ground surface.

TABLE 2

SUMMARY OF SOIL VAPOR SAMPLE ANALYTICAL RESULTS

NYSEG - BRIDGE STREET
PLATTSBURGH, NEW YORK

PARAMETER (ug/m ³)	NYSDOH Indoor Air Levels ¹ (ug/m ³)	SV-05-01 4/6/2005	SV-05-02 4/5/2005	SV-05-03 4/6/2005	SV-05-04 4/6/2005
Benzene	1.2 - 5.7	5.7	<3.0	<0.64	6.5
Toluene	4.2 - 25	19	<3.6	1.7	5.3
Ethylbenzene	0.43 - 2.8	2.1	<4.1	<0.87	<0.87
m&p-Xylene	0.52 - 4.7	7.7	<4.1	<0.87	<0.87
o-Xylene	0.39 - 3.1	2.2	<4.1	<0.87	<0.87
Cumene	NA	<1.3	<4.7	<0.98	<0.98
Naphthalene	NA	<3.5	<12	<2.6	<2.6
Styrene	<0.25 - 0.68	<1.1	<4.0	<0.85	<0.85
1,2,4-Trimethylbenzene	0.78 - 4.4	2.1	<4.7	<0.98	<0.98
1,3,5-Trimethylbenzene	<0.25 - 1.7	<1.3	<4.7	<0.98	<0.98
Methyl-tert-butyl ether	<0.25 - 6.7	<2.4	<8.5	<1.8	<1.8
n-Butane	NA	6.6	<2.2	1.7	2.5
Pentane	NA	3.3	<7.0	1.9	2.7
n-Hexane	0.63 - 6.5	2.2	<3.3	<0.70	2.7
n-Heptane	NA	3.3	<3.9	<0.82	1.3
n-Octane	NA	3.0	<4.4	<0.93	<0.93
Nonane	NA	2.9	<5.0	<1.0	<1.0
n-Decane	NA	6.0	<5.5	1.2	<1.2
n-Undecane	NA	28	<6.0	<1.3	<1.3
n-Dodecane	NA	89	<33	<7.0	<7.0
Carbon Tetrachloride	<0.25 - 0.68	<1.7	<6.0	<1.3	<1.3
Chloroform	<0.25 - 0.54	<1.3	<4.6	16	<0.98
Methylene Chloride	0.38 - 6.3	<2.3	<8.2	<1.7	3.1
Chloromethane	NA	<1.4	<4.9	<1.0	<1.0
Trichlorofluoromethane	NA	4.4	<5.3	1.9	2.8
Dichlorodifluoromethane	NA	4.8	300	9.9	9.6
1,2-Dibromoethane	<0.25	<2.1	<7.3	<1.5	<1.5
Bromomethane	NA	<1.0	<3.7	<0.78	<0.78
1,2,4-Trichlorobenzene	NA	<9.9	<35	<7.4	<7.4
1,2-Dichlorobenzene	<0.25	<1.6	<5.7	<1.2	<1.2
1,3-Dichlorobenzene	<0.25	<1.6	<5.7	<1.2	<1.2
1,4-Dichlorobenzene	NA	<1.6	<5.7	<1.2	<1.2
Chlorobenzene	<0.25	<1.2	<4.4	<0.92	<0.92
1,1,2,2-Tetrachloroethane	<0.25	<1.8	<6.5	<1.4	<1.4
1,1,1-Trichloroethane	<0.25 - 1.4	3.2	<5.2	<1.1	<1.1
1,1,2-Trichloroethane	<0.25	<1.5	<5.2	<1.1	<1.1
1,1-Dichloroethane	<0.25	<1.1	<3.8	<0.81	<0.81
1,2-Dichloroethane	<0.25	<1.1	<3.8	<0.81	<0.81
Chloroethane	NA	<0.71	<2.5	<0.53	<0.53
Tetrachloroethene	<0.25 - 1.2	5.2	<6.4	<1.4	3.7
Trichloroethene	<0.25	<1.4	<5.1	<1.1	<1.1
1,1-Dichloroethene	<0.25	<1.1	<3.8	<0.79	<0.79
cis-1,2-Dichloroethene	<0.25	<1.1	<3.8	<0.79	<0.79
Vinyl Chloride	<0.25	<0.69	<2.4	<0.51	<0.51

TABLE 2

SUMMARY OF SOIL VAPOR SAMPLE ANALYTICAL RESULTS

NYSEG - BRIDGE STREET
PLATTSBURGH, NEW YORK

PARAMETER (ug/m ³)	NYSDOH Indoor Air Levels ¹ (ug/m ³)	SV-05-01 4/6/2005	SV-05-02 4/5/2005	SV-05-03 4/6/2005	SV-05-04 4/6/2005
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	<2.1	<7.2	<1.5	<1.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	NA	<1.9	<6.6	<1.4	<1.4
1,2-Dichloropropane	<0.25	<1.2	<4.4	<0.92	<0.92
trans-1,3-Dichloropropene	NA	<1.2	<4.3	<0.91	<0.91
cis-1,3-Dichloropropene	NA	<1.2	<4.3	<0.91	<0.91
Hexachlorobutadiene	NA	<14	<50	<11	<11

Notes:

1 - Summary of Indoor & Outdoor Levels of Volatile Organic Compounds From Fuel Oil Heated Homes in NYS (1997 to 2003)

<: Indicates the parameter was not detected above the PQL shown.

Samples analyzed by Severn Trent Laboratories, Inc. in Knoxville, Tennessee
by EPA Method TO-15.

Bold values indicate a concentration detected above the quantitation limit.

TABLE 3

**SUMMARY OF SOIL VAPOR SAMPLE ANALYTICAL RESULTS
(TENTATIVELY IDENTIFIED COMPOUNDS)**

**NYSEG - BRIDGE STREET
PLATTSBURGH, NEW YORK**

PARAMETER (ug/m³)	SV-05-01 4/6/2005	SV-05-02 4/5/2005	SV-05-03 4/6/2005	SV-05-04 4/6/2005
2,2,4-Trimethylpentane	ND	ND	ND	ND
2,3-Dimethylheptane	ND	ND	ND	ND
2,3-Dimethylpentane	ND	ND	ND	ND
Butylcyclohexane	ND	ND	ND	ND
Indane	ND	ND	ND	ND
Indene	ND	ND	ND	ND
Isopentane	7.5	ND	ND	3.9
1,2,3-Trimethylbenzene	ND	ND	ND	ND

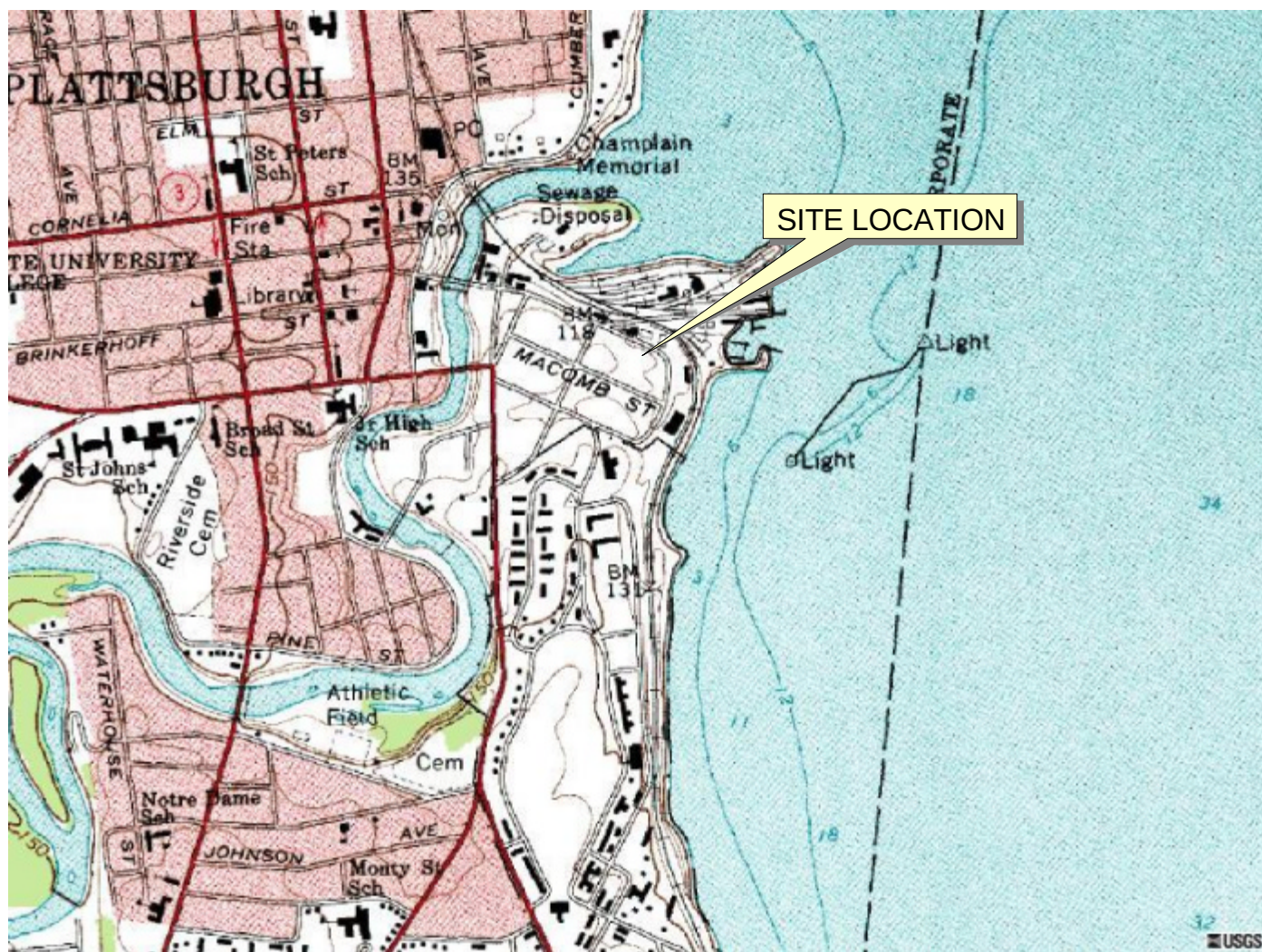
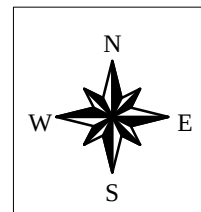
Notes:

ND - Not Detected

Samples analyzed by Severn Trent Laboratories, Inc. in Knoxville, Tennessee
by EPA Method TO-15.

Bold values indicate a concentration detected above the quantitation limit.

FIGURES



GRAPHIC SCALE

0 30 60 90 Feet

SOURCE:
USGS 7 1/2 Minute Series Topographic Map
Plattsburgh, New York 1966

Title: SITE LOCATION MAP

Location: BRIDGE STREET FORMER MGP SITE
PLATTSBURGH, NEW YORK

Client: **NYSEG** NEW YORK STATE
ELECTRIC AND GAS

URS

URS Corporation
28 Corporate Drive, Suite 200
Clifton Park, New York 12065

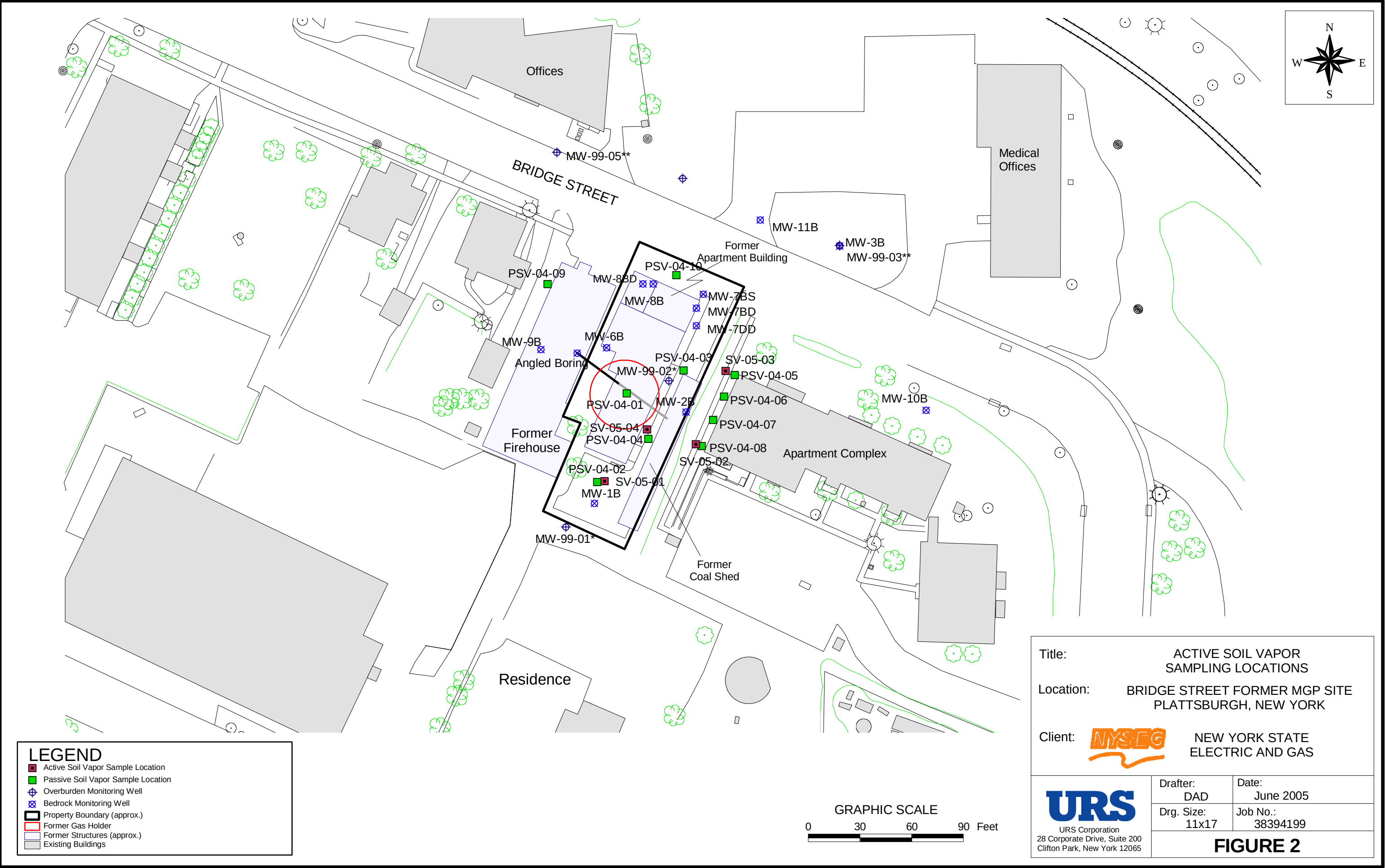
Drafter:
DAD

Drg. Size:
8.5X11

Date:
October 2004

Job No.:
38394199

FIGURE 1



APPENDIX A
SOIL VAPOR SAMPLE ANALYTICAL REPORT

H4D120102 Sample Data Summary	1
Sample Receipt Documentation.....	31
Volatiles.....	34
Raw Sample Data	35
Standards Data	199
Raw QC Data	363
Miscellaneous Data	408
Sample Receipt Documentation.....	417
Total Number of Pages	419

**STL****STL Knoxville**

5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

ANALYTICAL REPORT

Bridge St.

Lot #: H5D120102

Scott Hulseapple

URS Corporation
28 Corporate Drive, Suite 200
Clifton Park, NY 12065

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Scott A. Harris".

Scott A. Harris
Project Manager

April 28, 2005

ANALYTICAL METHODS SUMMARY

H5D120102

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H5D120102

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G757F	001	SV-05-02	04/05/05	13:28
G757G	002	SV-05-04	04/06/05	10:41
G757H	003	SV-05-01	04/06/05	11:42
G757K	004	SV-05-03	04/06/05	12:49
G757L	005	20050406-TB-1	04/06/05	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE

H5D120102

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

The recovery for surrogate 1,2-Dichloroethane-d4 in laboratory control sample G83441AC (analysis batch 5114026) was below QC limits. Since the recoveries for all control analytes were within limits, the validity of the data is unaffected.

The laboratory control sample recovery for trichloroethene was above QC limits for batch 5111152. However, trichloroethene was not detected in the associated samples.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #04-041-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001

Work Order # G757F2AA

Matrix.....: AIR

Date Sampled...: 4/5/05

Date Received...: 4/8/05

Prep Date.....: 4/22/05

Analysis Date... 4/22/05

Prep Batch #.....: 5114026

Dilution Factor.: 4.73

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.95	ND	3.9
n-Hexane	ND	0.95	ND	3.3
Cumene	ND	0.95	ND	4.7
Naphthalene	ND	2.4	ND	12
n-Octane	ND	0.95	ND	4.4
Pentane	ND	2.4	ND	7.0
Methyl tert-butyl ether	ND	2.4	ND	8.5
n-Decane	ND	0.95	ND	5.5
n-Dodecane	ND	4.7	ND	33
n-Undecane	ND	0.95	ND	6.0
Nonane	ND	0.95	ND	5.0
n-Butane	ND	0.95	ND	2.2
Dichlorodifluoromethane	61	0.95	300	4.7
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.95	ND	6.6
Chloromethane	ND	2.4	ND	4.9
Vinyl chloride	ND	0.95	ND	2.4
Bromomethane	ND	0.95	ND	3.7
Chloroethane	ND	0.95	ND	2.5
Trichlorofluoromethane	ND	0.95	ND	5.3
1,1-Dichloroethene	ND	0.95	ND	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.95	ND	7.2
Methylene chloride	ND	2.4	ND	8.2
1,1-Dichloroethane	ND	0.95	ND	3.8
cis-1,2-Dichloroethene	ND	0.95	ND	3.8
Chloroform	ND	0.95	ND	4.6
1,1,1-Trichloroethane	ND	0.95	ND	5.2
Carbon tetrachloride	ND	0.95	ND	6.0
Benzene	ND	0.95	ND	3.0
1,2-Dichloroethane	ND	0.95	ND	3.8
Trichloroethene	ND	0.95	ND	5.1
1,2-Dichloropropane	ND	0.95	ND	4.4
cis-1,3-Dichloropropene	ND	0.95	ND	4.3
Toluene	ND	0.95	ND	3.6
trans-1,3-Dichloropropene	ND	0.95	ND	4.3
1,1,2-Trichloroethane	ND	0.95	ND	5.2
Tetrachloroethene	ND	0.95	ND	6.4

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001

Work Order # G757F2AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
1,2-Dibromoethane (EDB)	ND	0.95	ND	7.3
Chlorobenzene	ND	0.95	ND	4.4
Ethylbenzene	ND	0.95	ND	4.1
m-Xylene & p-Xylene	ND	0.95	ND	4.1
o-Xylene	ND	0.95	ND	4.1
Styrene	ND	0.95	ND	4.0
1,1,2,2-Tetrachloroethane	ND	0.95	ND	6.5
1,3,5-Trimethylbenzene	ND	0.95	ND	4.7
1,2,4-Trimethylbenzene	ND	0.95	ND	4.7
1,3-Dichlorobenzene	ND	0.95	ND	5.7
1,4-Dichlorobenzene	ND	0.95	ND	5.7
1,2-Dichlorobenzene	ND	0.95	ND	5.7
1,2,4-Trichlorobenzene	ND	4.7	ND	35
Hexachlorobutadiene	ND	4.7	ND	50

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001

Work Order # G757F2AA

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	76	70 - 130
Toluene-d8	99	70 - 130
4-Bromofluorobenzene	89	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date...: 4/21/05

Prep Batch #.....: 5111152

Dilution Factor...: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	0.32	0.20	1.3	0.82
n-Hexane	0.77	0.20	2.7	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	0.92	0.50	2.7	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	1.1	0.20	2.5	0.48
Dichlorodifluoromethane	1.9	0.20	9.6	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	0.50	0.20	2.8	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	0.90	0.50	3.1	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	2.0	0.20	6.5	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	1.4	0.20	5.3	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	0.54	0.20	3.7	1.4

URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

TENTATIVELY IDENTIFIED COMPOUNDS	RESULT	UNITS
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	1.3	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	106	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: $\text{Amount Found (before rounding)} \times (\text{Molecular Weight} / 24.45)$

The 'Reporting Limit' in ug/m3 is calculated using the following equation: $(\text{Reporting Limit (before rounding)} \times \text{Dilution Factor}) \times (\text{Molecular Weight} / 24.45)$

URS Corporation
Client Sample ID: SV-05-01
GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date...: 4/21/05

Prep Batch #.....: 5111152

Dilution Factor.: 1.34

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	0.82	0.27	3.3	1.1
n-Hexane	0.61	0.27	2.2	0.94
Cumene	ND	0.27	ND	1.3
Naphthalene	ND	0.67	ND	3.5
n-Octane	0.63	0.27	3.0	1.3
Pentane	1.1	0.67	3.3	2.0
Methyl tert-butyl ether	ND	0.67	ND	2.4
n-Decane	1.0	0.27	6.0	1.6
n-Dodecane	13	1.3	89	9.3
n-Undecane	4.3	0.27	28	1.7
Nonane	0.55	0.27	2.9	1.4
n-Butane	2.8	0.27	6.6	0.64
Dichlorodifluoromethane	0.98	0.27	4.8	1.3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.27	ND	1.9
Chloromethane	ND	0.67	ND	1.4
Vinyl chloride	ND	0.27	ND	0.69
Bromomethane	ND	0.27	ND	1.0
Chloroethane	ND	0.27	ND	0.71
Trichlorofluoromethane	0.78	0.27	4.4	1.5
1,1-Dichloroethene	ND	0.27	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.27	ND	2.1
Methylene chloride	ND	0.67	ND	2.3
1,1-Dichloroethane	ND	0.27	ND	1.1
cis-1,2-Dichloroethene	ND	0.27	ND	1.1
Chloroform	ND	0.27	ND	1.3
1,1,1-Trichloroethane	0.59	0.27	3.2	1.5
Carbon tetrachloride	ND	0.27	ND	1.7
Benzene	1.8	0.27	5.7	0.86
1,2-Dichloroethane	ND	0.27	ND	1.1
Trichloroethene	ND	0.27	ND	1.4
1,2-Dichloropropane	ND	0.27	ND	1.2
cis-1,3-Dichloropropene	ND	0.27	ND	1.2
Toluene	4.9	0.27	19	1.0
trans-1,3-Dichloropropene	ND	0.27	ND	1.2
1,1,2-Trichloroethane	ND	0.27	ND	1.5
Tetrachloroethene	0.76	0.27	5.2	1.8

URS Corporation
Client Sample ID: SV-05-01
GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2-Dibromoethane (EDB)	ND	0.27	ND	2.1
Chlorobenzene	ND	0.27	ND	1.2
Ethylbenzene	0.48	0.27	2.1	1.2
m-Xylene & p-Xylene	1.8	0.27	7.7	1.2
o-Xylene	0.50	0.27	2.2	1.2
Styrene	ND	0.27	ND	1.1
1,1,2,2-Tetrachloroethane	ND	0.27	ND	1.8
1,3,5-Trimethylbenzene	ND	0.27	ND	1.3
1,2,4-Trimethylbenzene	0.43	0.27	2.1	1.3
1,3-Dichlorobenzene	ND	0.27	ND	1.6
1,4-Dichlorobenzene	ND	0.27	ND	1.6
1,2-Dichlorobenzene	ND	0.27	ND	1.6
1,2,4-Trichlorobenzene	ND	1.3	ND	9.9
Hexachlorobutadiene	ND	1.3	ND	14

TENTATIVELY IDENTIFIED COMPOUNDS

	RESULT	UNITS
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	2.5	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
 Client Sample ID: SV-05-01
 GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	111	70 - 130
Toluene-d8	93	70 - 130
4-Bromofluorobenzene	112	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004

Work Order # G757K1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date...: 4/21/05

Prep Batch #.....: 5111152

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	0.65	0.50	1.9	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	0.21	0.20	1.2	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	0.71	0.20	1.7	0.48
Dichlorodifluoromethane	2.0	0.20	9.9	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	0.34	0.20	1.9	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	3.3	0.20	16	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	0.44	0.20	1.7	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	ND	0.20	ND	1.4

URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004

Work Order # G757K1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004 **Work Order #** G757K1AA **Matrix.....:** AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	105	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	103	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: 20050406-TB-1
GC/MS Volatiles

Lot-Sample # H5D120102 - 005

Work Order # G757L1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/22/05

Analysis Date...: 4/22/05

Prep Batch #.....: 5114026

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: 20050406-TB-1
GC/MS Volatiles

Lot-Sample # H5D120102 - 005

Work Order # G757L1AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

TENTATIVELY IDENTIFIED COMPOUNDSRESULTUNITS

butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
 Client Sample ID: 20050406-TB-1
 GC/MS Volatiles

Lot-Sample # H5D120102 - 005 Work Order # G757L1AA Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	106	70 - 130
Toluene-d8	101	70 - 130
4-Bromofluorobenzene	89	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D210000 - 152B

Work Order # G8TNA1AA

Matrix.....: AIR

Prep Date.....: 4/20/05

Date Received...: 4/2/05

Prep Batch #.....: 5111152

Analysis Date...: 4/20/05

Dilution Factor..: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D210000 - 152B **Work Order #** G8TNA1AA **Matrix.....:** AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
None		

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D210000 - 152B **Work Order #** G8TNA1AA **Matrix.....:** AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	96	70 - 130
Toluene-d8	91	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: CHECK SAMPLE
GC/MS Volatiles

Lot-Sample # H5D210000 - 152C **Work Order #** G8TNA1AC **Matrix.....:** AIR

Prep Date.....: 4/20/05 **Date Received...:** 4/2/05
Prep Batch #.....: 5111152 **Analysis Date...:** 4/20/05
Dilution Factor..: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1-Dichloroethene	10.0	11.1	40	44	111	70 - 130
Benzene	10.0	11.2	32	36	112	70 - 130
Trichloroethene	10.0	13.7	54	74	137	a 70 - 130
Toluene	10.0	10.1	38	38	101	70 - 130
Chlorobenzene	10.0	10.8	46	50	108	70 - 130

URS Corporation
 Client Sample ID: CHECK SAMPLE
 GC/MS Volatiles

Lot-Sample # H5D210000 - 152C

Work Order # G8TNA1AC

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	93	70 - 130
Toluene-d8	92	70 - 130
4-Bromofluorobenzene	101	70 - 130

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B

Work Order # G83441AA

Matrix.....: AIR

Prep Date.....: 4/22/05

Date Received...: 4/4/05

Prep Batch #.....: 5114026

Analysis Date...: 4/22/05

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	1.0
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B **Work Order #** G83441AA **Matrix.....:** AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

TENTATIVELY IDENTIFIED COMPOUNDS

RESULT

UNITS

None

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B **Work Order #** G83441AA **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	104	70 - 130
Toluene-d8	102	70 - 130
4-Bromofluorobenzene	87	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

URS Corporation
 Client Sample ID: CHECK SAMPLE
 GC/MS Volatiles

Lot-Sample # H5D240000 - 026C Work Order # G83441AC Matrix.....: AIR

Prep Date.....: 4/22/05 Date Received...: 4/4/05
 Prep Batch #.....: 5114026 Analysis Date...: 4/22/05
 Dilution Factor.: 1 Method.....: TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1-Dichloroethene	10.0	11.6	40	46	116	70 - 130
Benzene	10.0	10.4	32	33	104	70 - 130
Trichloroethene	10.0	10.7	54	57	107	70 - 130
Toluene	10.0	10.5	38	39	105	70 - 130
Chlorobenzene	10.0	9.81	46	45	98	70 - 130

URS Corporation
Client Sample ID: CHECK SAMPLE
GC/MS Volatiles

Lot-Sample # H5D240000 - 026C

Work Order # G83441AC

Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	67 *	70 - 130
Toluene-d8	100	70 - 130
4-Bromofluorobenzene	104	70 - 130

Qualifiers

* Surrogate recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

HS0120102

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No.
Page 1 of

Samples Shipment Date ⁷ _____
 Lab Destination ⁸ St. Louis
 Lab Contact ⁹ Scott A. Hines
 Project Contact / Phone ¹² (202) 578-8333-3940
 Carrier / Waybill No. ¹³ _____

Samples Shipment Date ⁷

Lab Destination ⁸ StL Knoxville
 Lab Contact ⁹ Scott A. Harris
 Project Contact / Phone ¹² 202/578-8333-3946
 Carrier / Waybill No. ¹³ _____

Lab Destination ⁸ STL Knoxville

Lab Contact ⁹ *Scott Haines*
Project Contact / Phone ¹² *(202) 378-853-3946*
Carrier / Waybill No. ¹³

Lab Contact ⁹ Scott A. Harris

Project Contact / Phone ¹² 210 / 578-853 3940
Carrier / Waybill No. ¹³ _____

Project Contact: / Phone 12 578-85

Carrier / Waybill No. ¹³ 1234

Carrier / Waybill No. ¹³

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre- 19 servative	Requested Testing 20 Program	Condition on Receipt 21 Lab use only
SV-05-02	Air	4/30/05/1338	6L SUMMA	6L	—	TO 15P- ~~ANALYZE~~ + N-ANALYZES THIS BIOLOGICAL AGENTS, INACTIVE, INACTIVE	Custody seals intact Y (N) NA temperature received at AMBIENT
SV-05-04	Air	4/30/05/1041	6L SUMMA	6L	—	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Received by MJD Date 4/30/05
SV-05-01	Air	4/30/05/1142	6L SUMMA	6L	—	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Number of packages 2 BOXES
SV-05-03	Air	4/30/05/1249	6L SUMMA	6L	—	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Tracking # 851327497012
20050406-73-1	Air	—	6L SUMMA	6L	—	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	7CANS
							3FLOWS

Special Instructions: 23

Possible Hazard Identification: ²⁴

Possible Hazard	☒	Skin Irritant	☐	Poison B	☐	Unknown	☐	Sample Preparation:
Non-Hazard	☒	Flammable	☐	Poison A	☐	Unknown	☐	Return to Client
Other Hazards								Disposal by Lab
Remarks								Archive

Turnaround Time Required: 26	QC Level: 27

	I.	II.	III.	Project Specific (specify):
Normal	☒	☐	☐	
Normal	☒	☐	☐	
Rush	☐	☐	☐	
Rush	☒	☐	☐	

1. Relinquished by ²⁸ 11/11/05 Date: 11/11/05

1. Received by ²⁸ 11/11/05 Date: 11/11/05

(Signature / Affiliation)	Time: 09:20
(Signature / Affiliation)	Time: 09:20

1. Received by	Date:
1. Belingauished by	

(Signature / Affiliation) Time: _____

[illegible]

Comments: ~~***~~ Please see Joint Hawks w/ Army in 2001 construction.

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: URS Project: BRIDGE ST. Lot Number: 13-D120102

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	☒			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (North Carolina, 1668, 1613B: 0-4°C; VOST: 10°C) (Cooler temp should be used only if no temp blank.)	☒			☒ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?	☒			☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	☒			☒ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	☒			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	☒			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?	☒			☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	☒			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?	☒			☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	☒			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?	☒			☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?	☒			If yes, was SOG notified?	
13. Are the shipping containers intact?	☒			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	☒			☐ 14a Not relinquished by client	
15. Are tests/parameters listed for each sample?	☒			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	☒			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	☒			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	☒			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	☒			☐ 15a Incomplete information	

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: Bryana Danner Date: 4-8-05 QA026R15.doc, 11/15/04

Volatiles

Raw Sample Data

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001

Work Order # G757F2AA

Matrix.....: AIR

Date Sampled...: 4/5/05

Date Received...: 4/8/05

Prep Date.....: 4/22/05

Analysis Date...: 4/22/05

Prep Batch #.....: 5114026

Dilution Factor.: 4.73

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.95	ND	3.9
n-Hexane	ND	0.95	ND	3.3
Cumene	ND	0.95	ND	4.7
Naphthalene	ND	2.4	ND	12
n-Octane	ND	0.95	ND	4.4
Pentane	ND	2.4	ND	7.0
Methyl tert-butyl ether	ND	2.4	ND	8.5
n-Decane	ND	0.95	ND	5.5
n-Dodecane	ND	4.7	ND	33
n-Undecane	ND	0.95	ND	6.0
Nonane	ND	0.95	ND	5.0
n-Butane	ND	0.95	ND	2.2
Dichlorodifluoromethane	61	0.95	300	4.7
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.95	ND	6.6
Chloromethane	ND	2.4	ND	4.9
Vinyl chloride	ND	0.95	ND	2.4
Bromomethane	ND	0.95	ND	3.7
Chloroethane	ND	0.95	ND	2.5
Trichlorofluoromethane	ND	0.95	ND	5.3
1,1-Dichloroethene	ND	0.95	ND	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.95	ND	7.2
Methylene chloride	ND	2.4	ND	8.2
1,1-Dichloroethane	ND	0.95	ND	3.8
cis-1,2-Dichloroethene	ND	0.95	ND	3.8
Chloroform	ND	0.95	ND	4.6
1,1,1-Trichloroethane	ND	0.95	ND	5.2
Carbon tetrachloride	ND	0.95	ND	6.0
Benzene	ND	0.95	ND	3.0
1,2-Dichloroethane	ND	0.95	ND	3.8
Trichloroethene	ND	0.95	ND	5.1
1,2-Dichloropropane	ND	0.95	ND	4.4
cis-1,3-Dichloropropene	ND	0.95	ND	4.3
Toluene	ND	0.95	ND	3.6
trans-1,3-Dichloropropene	ND	0.95	ND	4.3
1,1,2-Trichloroethane	ND	0.95	ND	5.2
Tetrachloroethene	ND	0.95	ND	6.4

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001

Work Order # G757F2AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2-Dibromoethane (EDB)	ND	0.95	ND	7.3
Chlorobenzene	ND	0.95	ND	4.4
Ethylbenzene	ND	0.95	ND	4.1
m-Xylene & p-Xylene	ND	0.95	ND	4.1
o-Xylene	ND	0.95	ND	4.1
Styrene	ND	0.95	ND	4.0
1,1,2,2-Tetrachloroethane	ND	0.95	ND	6.5
1,3,5-Trimethylbenzene	ND	0.95	ND	4.7
1,2,4-Trimethylbenzene	ND	0.95	ND	4.7
1,3-Dichlorobenzene	ND	0.95	ND	5.7
1,4-Dichlorobenzene	ND	0.95	ND	5.7
1,2-Dichlorobenzene	ND	0.95	ND	5.7
1,2,4-Trichlorobenzene	ND	4.7	ND	35
Hexachlorobutadiene	ND	4.7	ND	50

TENTATIVELY IDENTIFIED COMPOUNDS	RESULT	UNITS
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-02
GC/MS Volatiles

Lot-Sample # H5D120102 - 001 **Work Order #** G757F2AA **Matrix.....:** AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	76	70 - 130
Toluene-d8	99	70 - 130
4-Bromofluorobenzene	89	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E042205.b/g757f.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042205.b/g757f.d
 Lab Smp Id: G757F1AA 2 AA 4/14/05 Client Smp ID: SV-05-02
 Inj Date : 22-APR-2005 20:00
 Operator : 60487 Inst ID: me.i
 Smp Info : G757F1AA,4.73,0,,,
 Misc Info : E042205,LA,bridge.sub,,,150ML /
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 11:15 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 2
 Dil Factor: 4.73000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb (v/v)) (ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.696	9.696	(1.000)	347135	10.0000	
* 2 1,4-Difluorobenzene	114	11.837	11.843	(1.000)	1173869	10.0000	
* 3 Chlorobenzene-d5	117	16.448	16.448	(1.000)	1070887	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.905)	204391	7.57353	7.574
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1004462	9.91610	9.916
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	764774	8.94937	8.949
8 Dichlorodifluoromethane	85	4.144	4.150	(0.427)	2777003	12.8814	60.93
14 n-Butane	43	4.666	4.666	(0.481)	13877	0.13484	0.6378
17 Trichlorofluoromethane	101	5.861	5.861	(0.604)	12708	0.05445	0.2575
21 Pentane	57	6.113	6.113	(0.630)	1716	0.10757	0.5088
34 Hexane	56	8.948	8.948	(0.923)	5432	0.10772	0.5095
43 Heptane	43	12.407	12.413	(1.048)	7877	0.05551	0.2626
52 1,1,2-Trichloroethane	97	14.414	14.581	(0.876)	116261	1.82613	8.638

✓
4/14/05

4/14/05H

Data File: /var/chem/gcms/me.i/E042205.b/g757f.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i	Calibration Date: 22-APR-2005
Lab File ID: g757f.d	Calibration Time: 11:19
Lab Smp Id: G757F1AA	Client Smp ID: SV-05-02
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 60487	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,bridge.sub,,,150ML	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	334573	199071	470075	347135	3.75
2 1,4-Difluorobenze	1313734	781672	1845796	1173869	-10.65
3 Chlorobenzene-d5	1297315	771902	1822728	1070887	-17.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	9.70	9.37	10.03	9.70	0.00
2 1,4-Difluorobenze	11.84	11.51	12.17	11.84	-0.05
3 Chlorobenzene-d5	16.45	16.12	16.78	16.45	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042205.b/g757f.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

RECOVERY REPORT

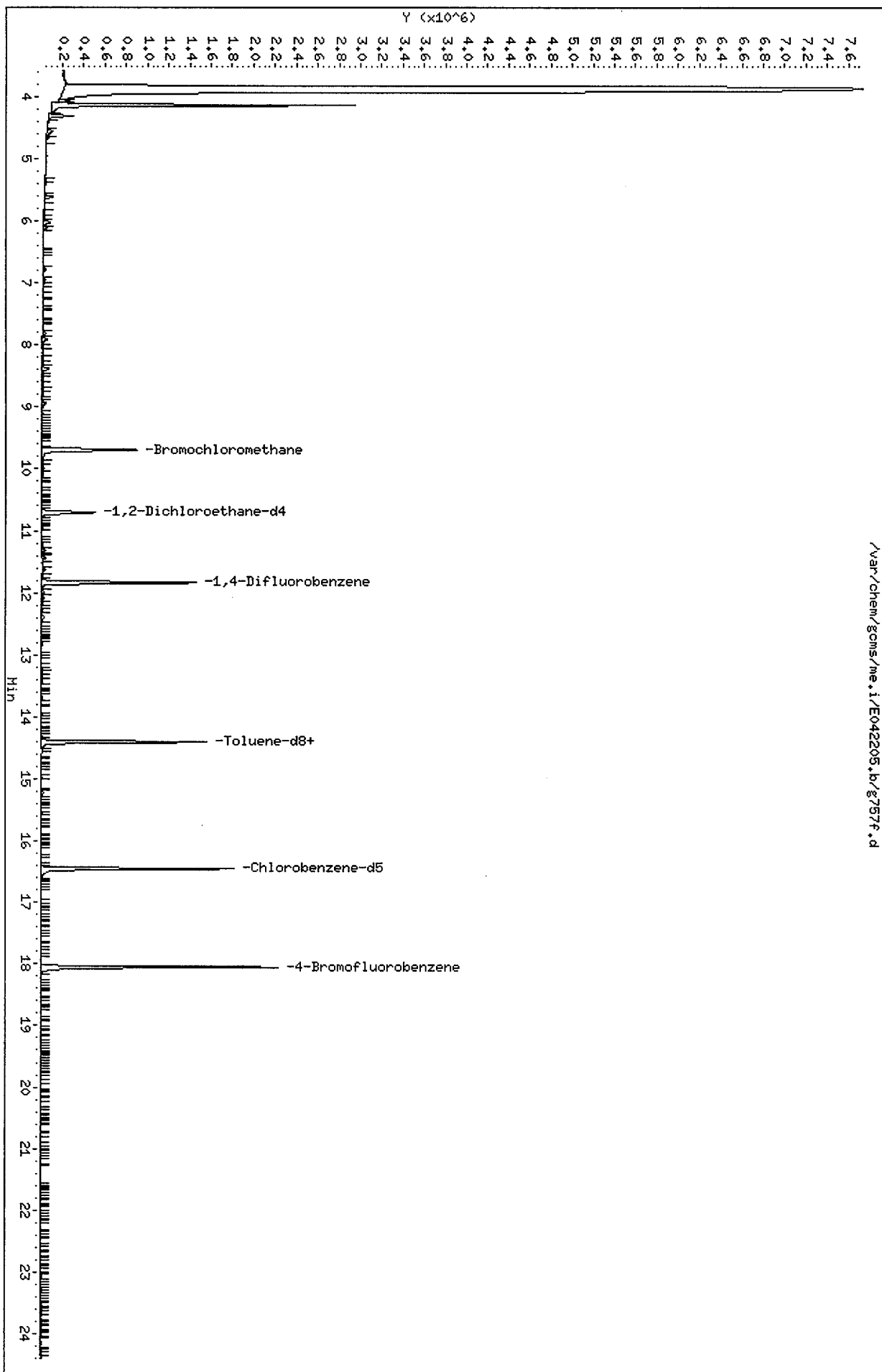
Client Name: URS Corporation
 Sample Matrix: GAS
 Lab Smp Id: G757F1AA
 Level: LOW
 Data Type: MS DATA
 SpikeList File: all.spk
 Sublist File: bridge.sub
 Method File: /var/chem/gcms/me.i/E042205.b/LA.m
 Misc Info: E042205,LA,bridge.sub,,,150ML

Client SDG: H5D120102
 Fraction: OTHER
 Client Smp ID: SV-05-02
 Operator: 60487
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	7.574	75.74	70-130
\$ 5 Toluene-d8	10.00	9.916	99.16	70-130
\$ 6 4-Bromofluorobenze	10.00	8.949	89.49	70-130

Data File: /var/chem/gcms/me.i/E042205.b/g757f.d
Date : 22-APR-2005 20:00
Client ID: SV-05-02
Sample Info: G757F1A4,4,73,0,,,
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,

Volume Injected (uL): 500.0

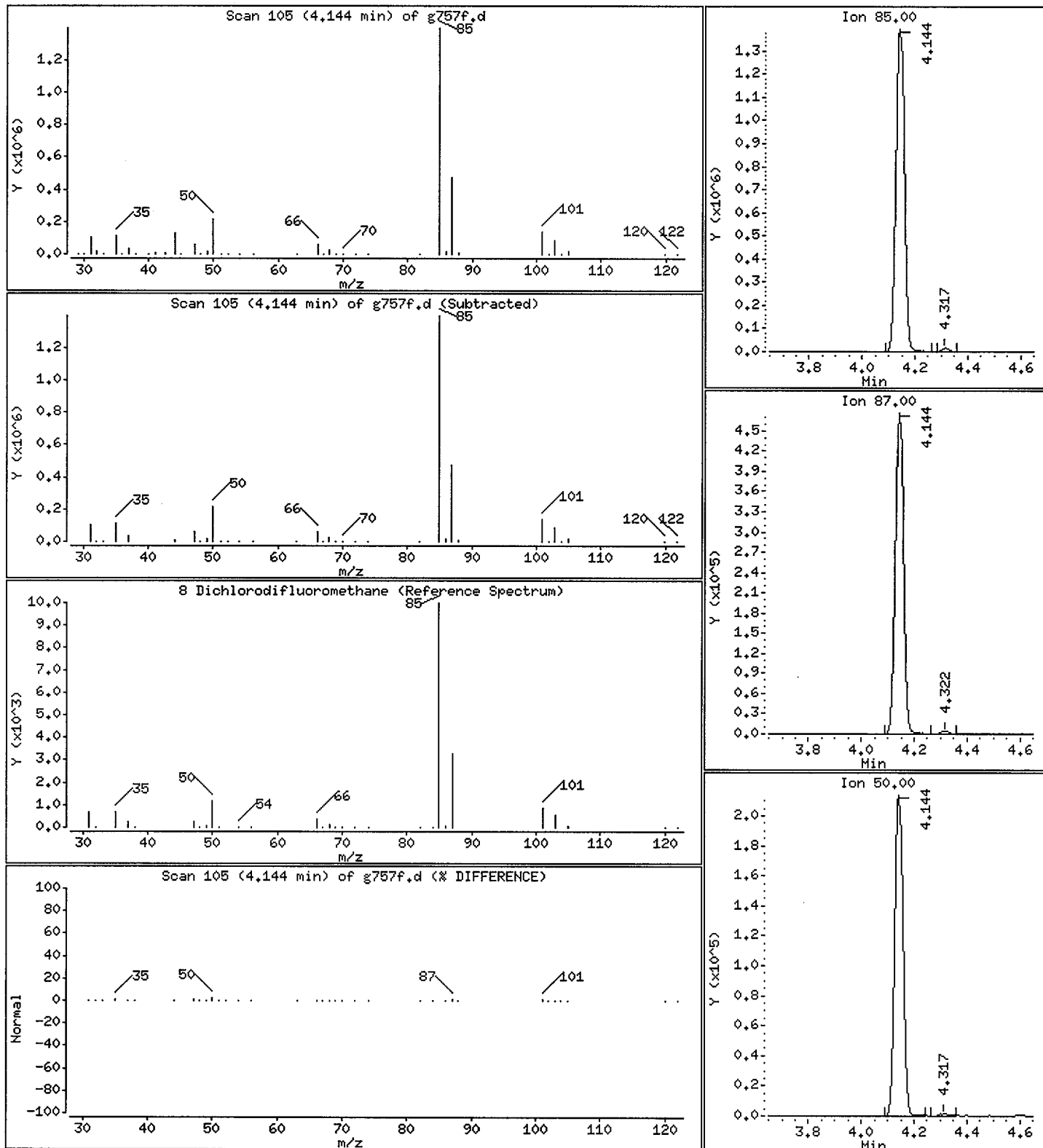
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

8 Dichlorodifluoromethane

Concentration: 60.93 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

Volume Injected (uL): 500.0

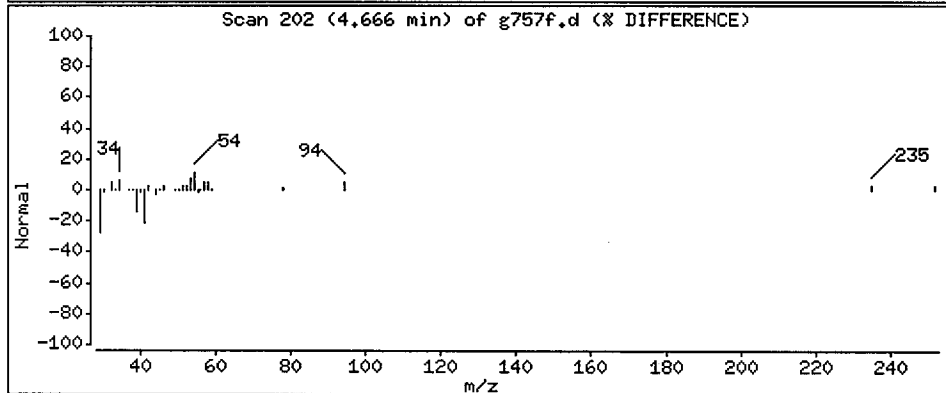
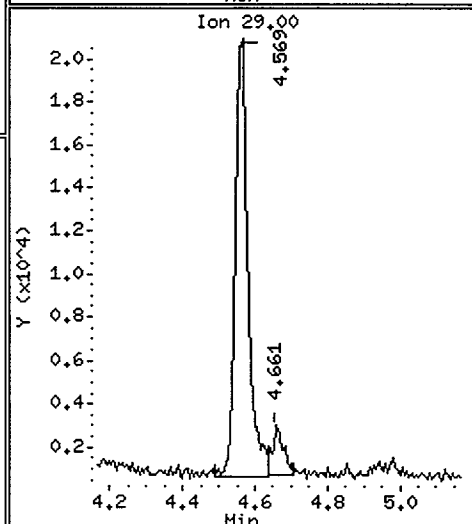
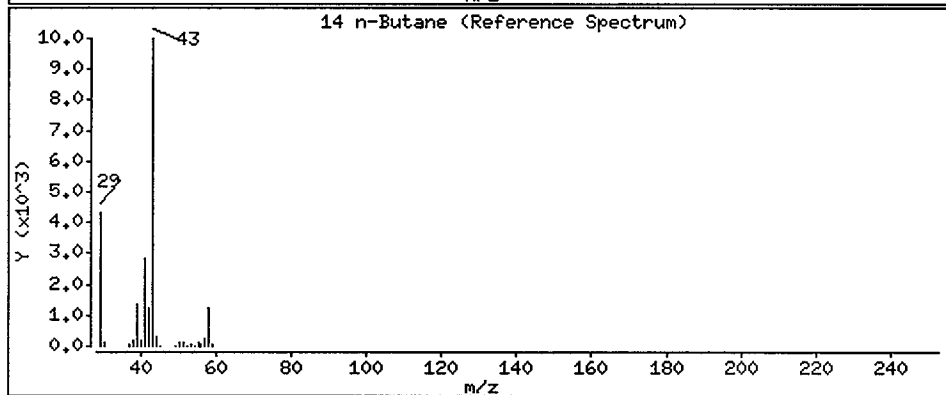
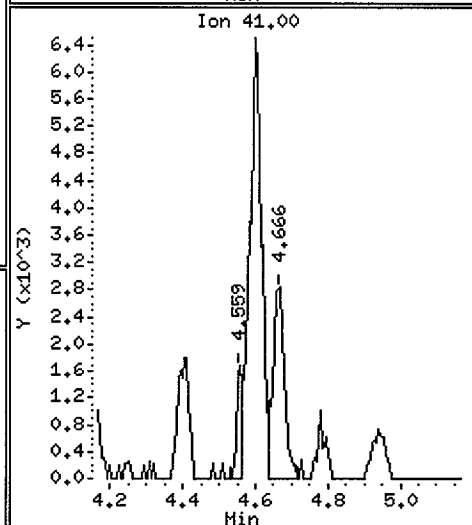
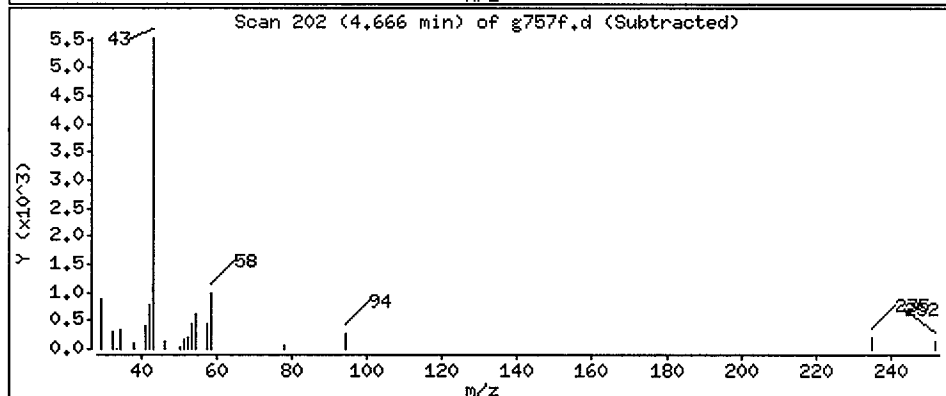
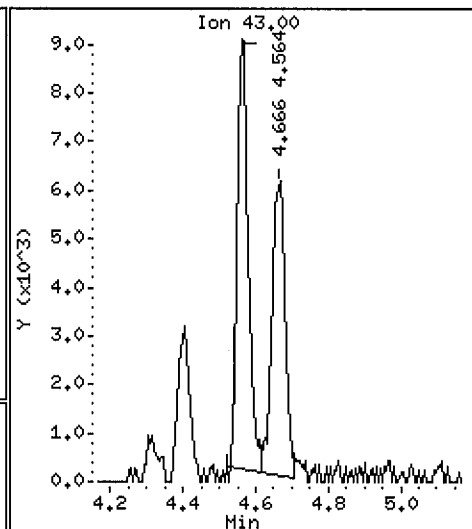
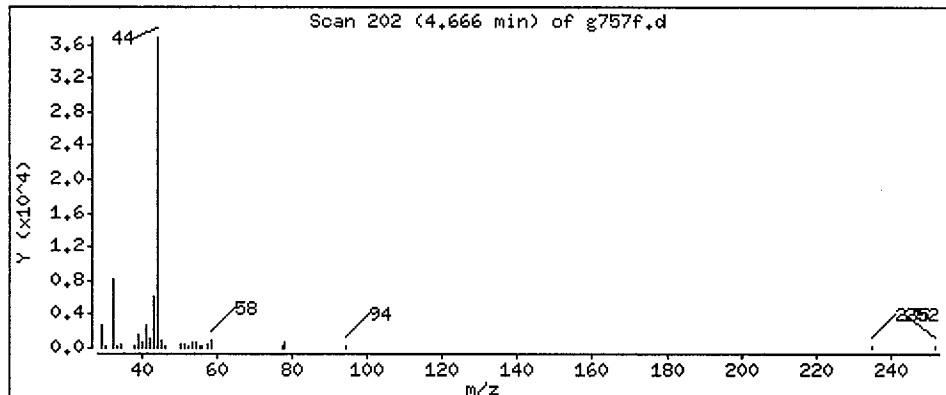
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 0.6378 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

Volume Injected (uL): 500.0

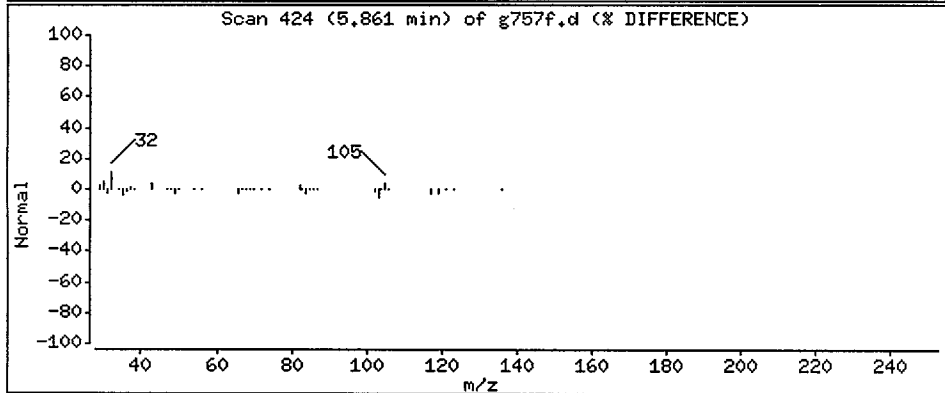
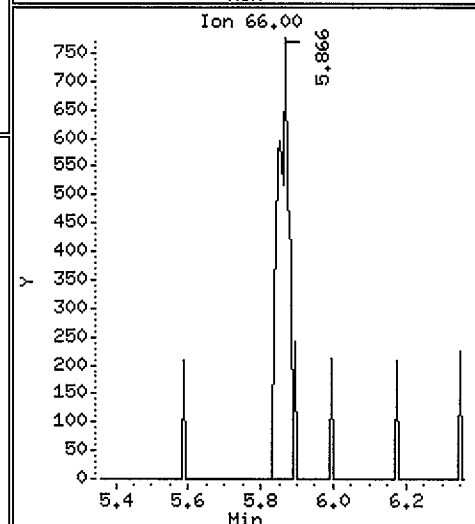
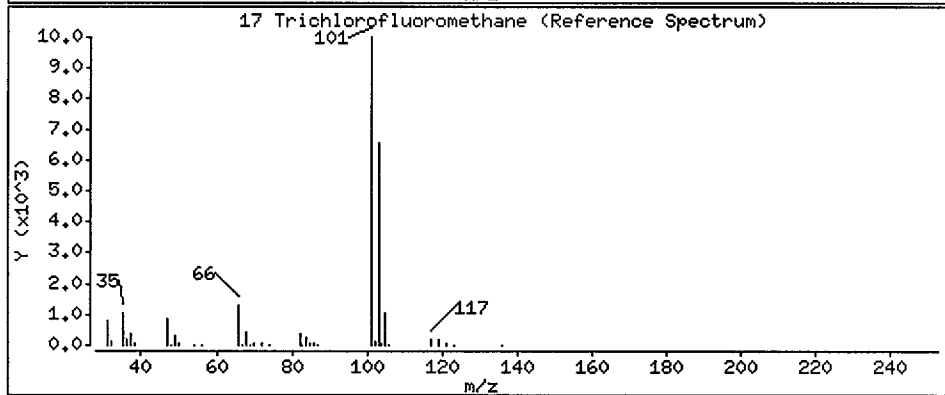
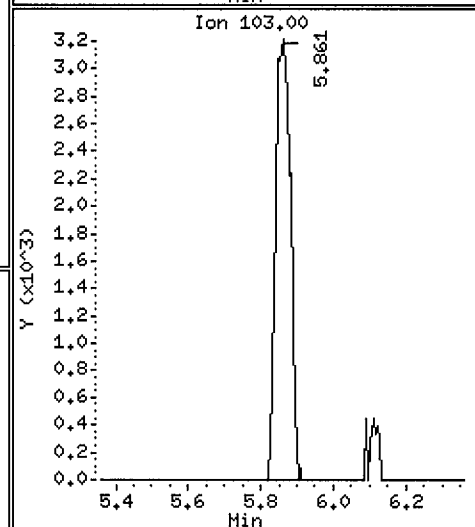
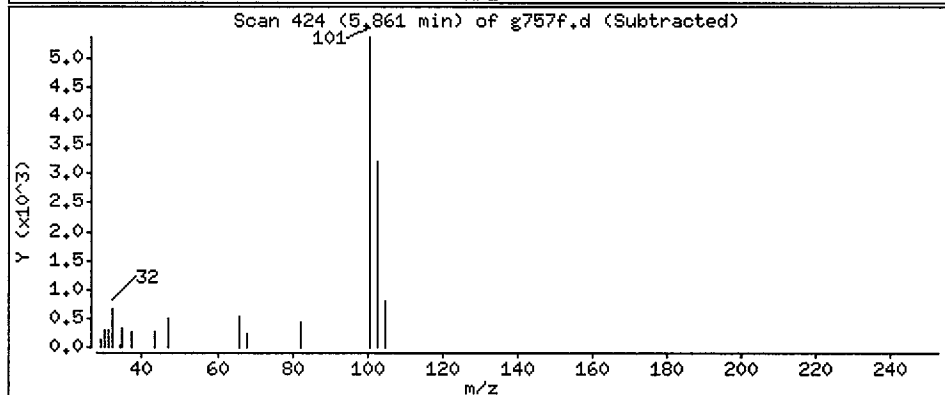
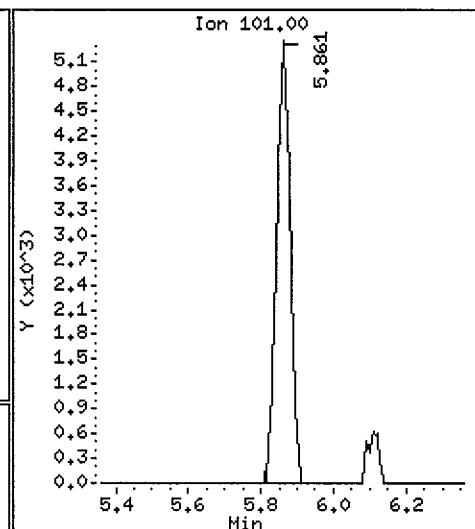
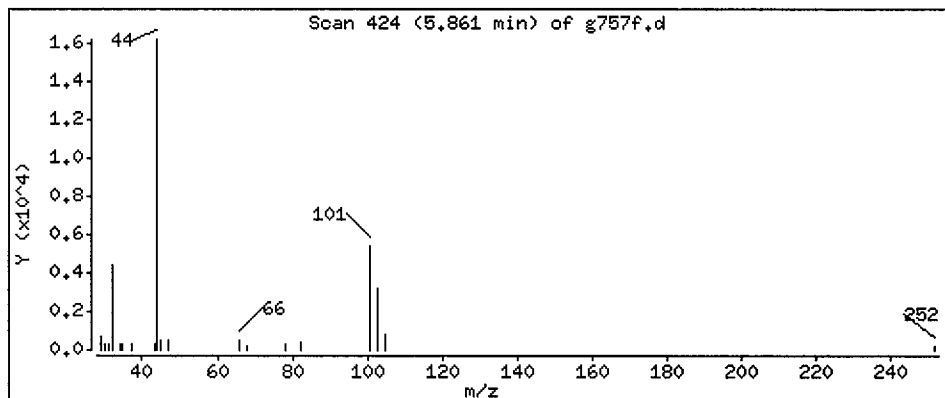
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

17 Trichlorofluoromethane

Concentration: 0.2575 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

Volume Injected (uL): 500.0

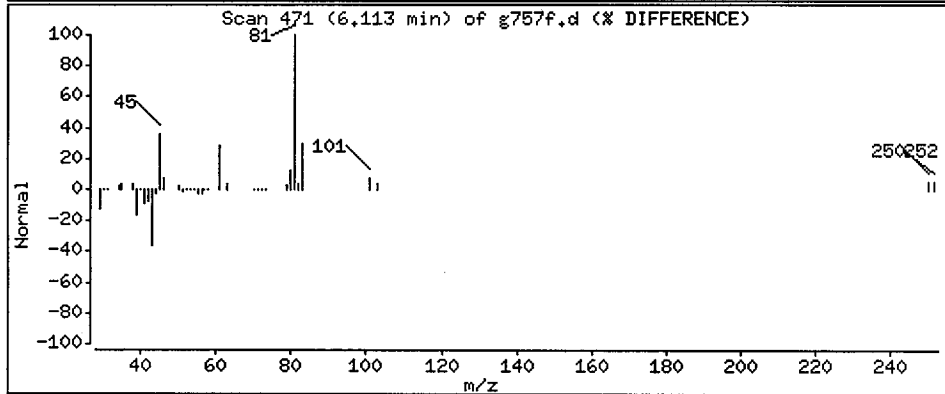
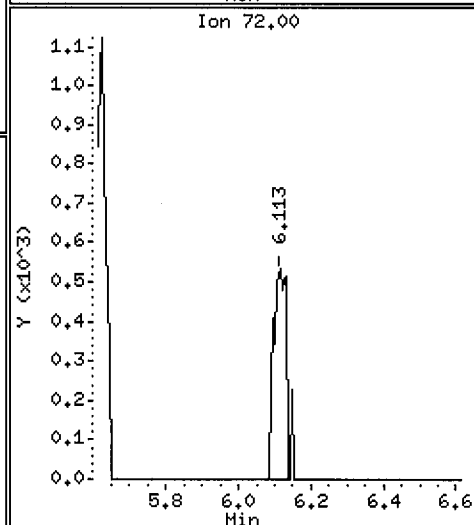
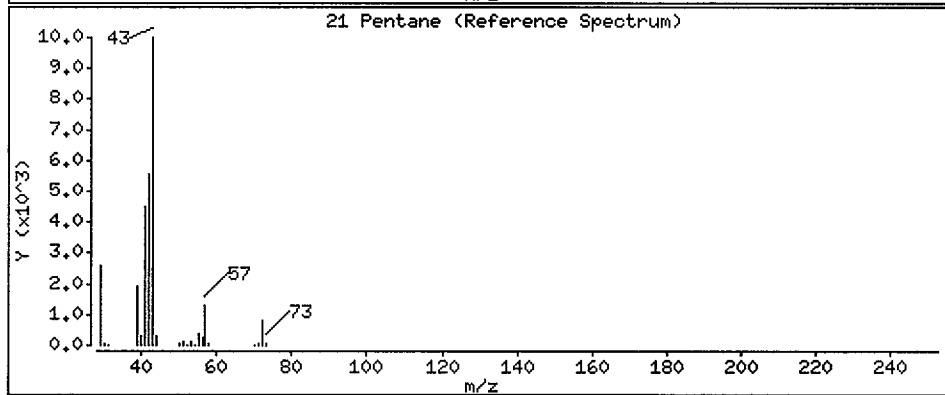
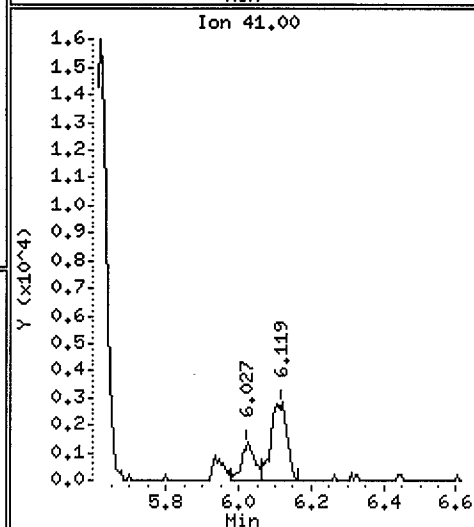
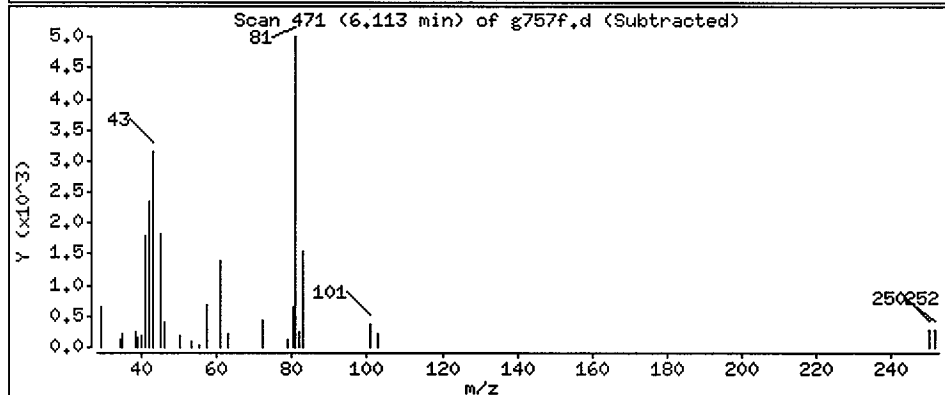
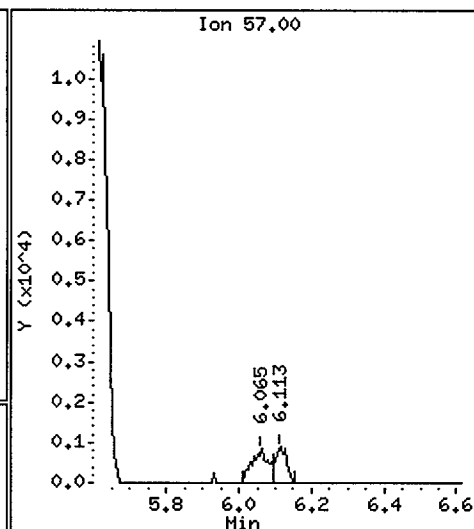
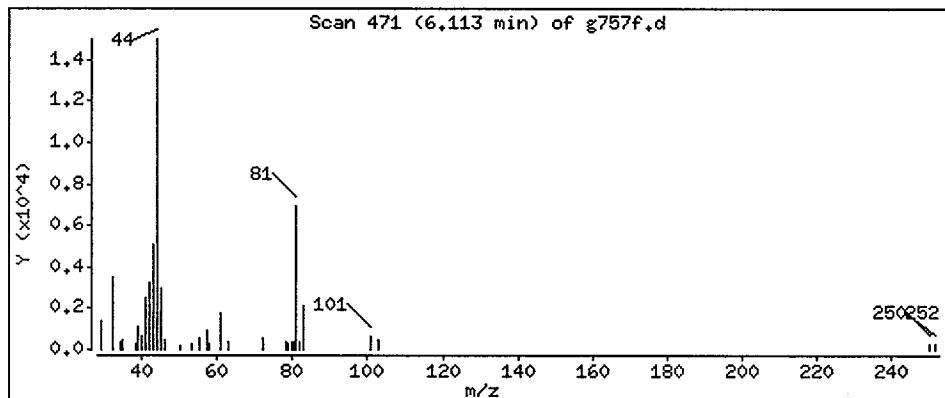
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

21 Pentane

Concentration: 0.5088 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205,b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

Volume Injected (uL): 500.0

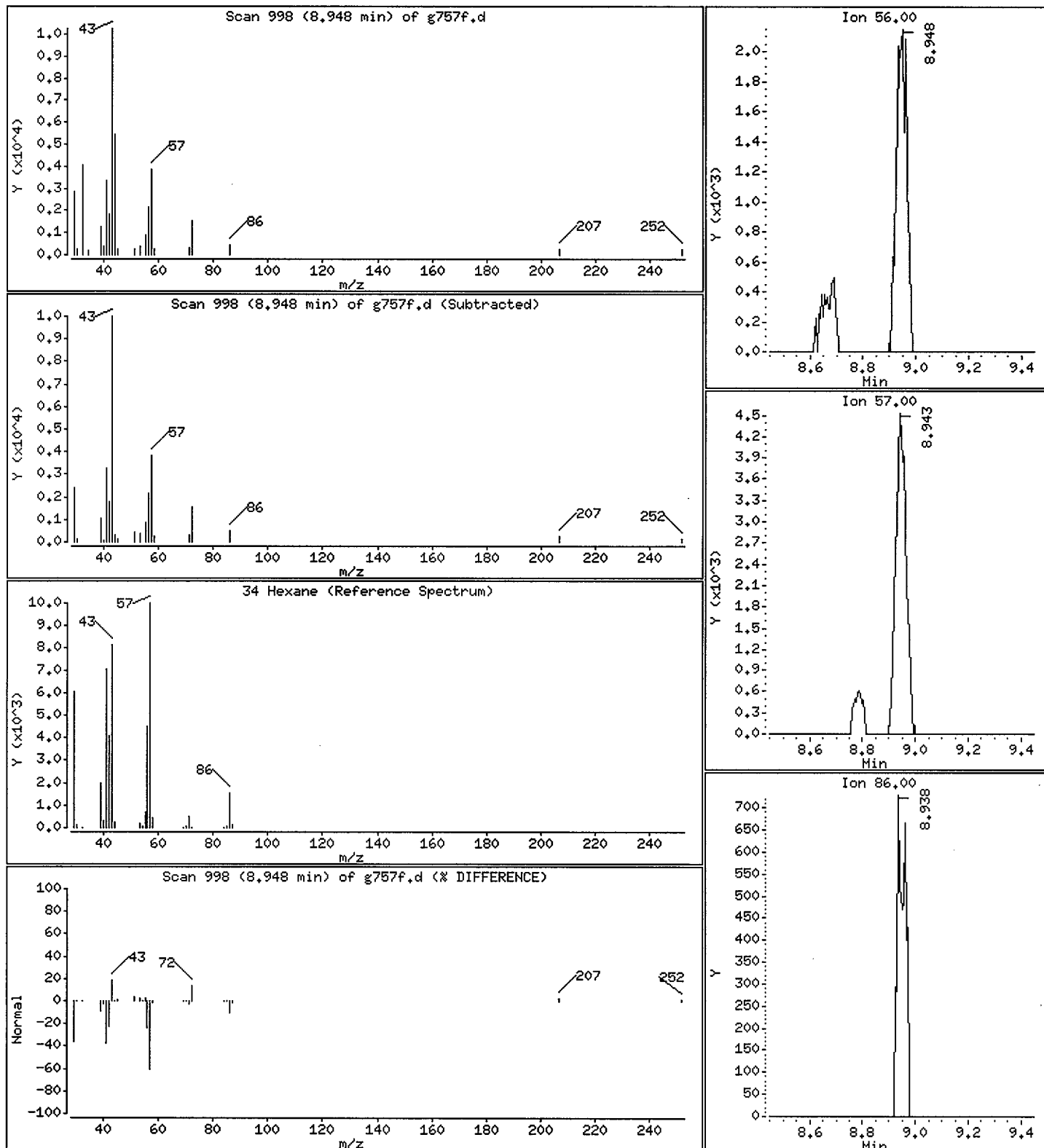
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

34 Hexane

Concentration: 0.5095 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205,b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

Volume Injected (uL): 500.0

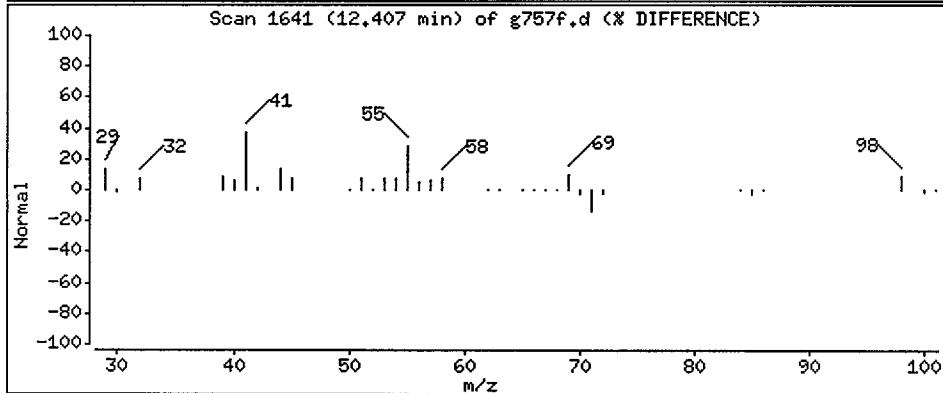
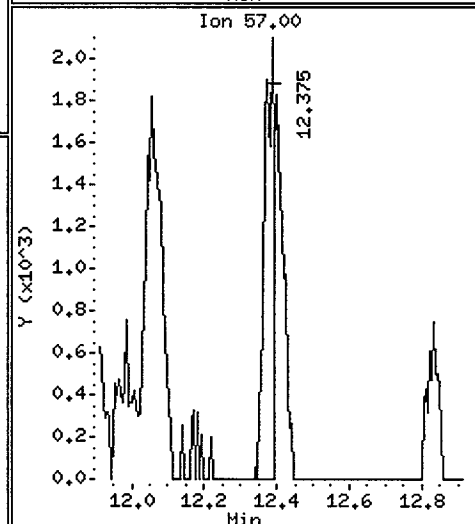
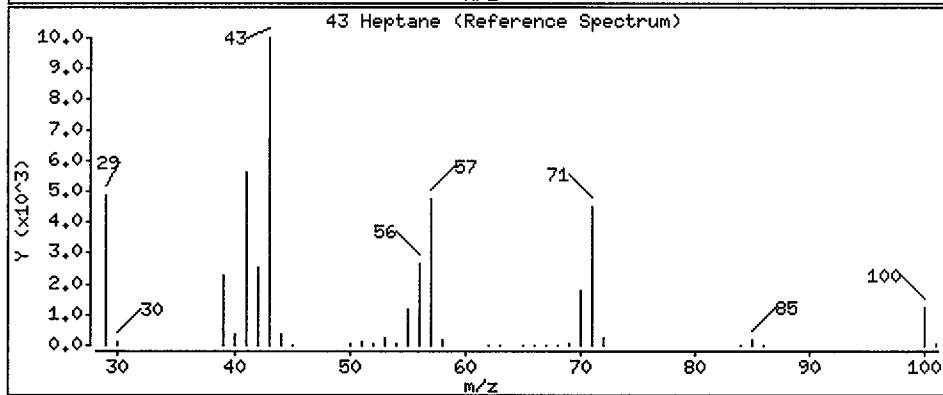
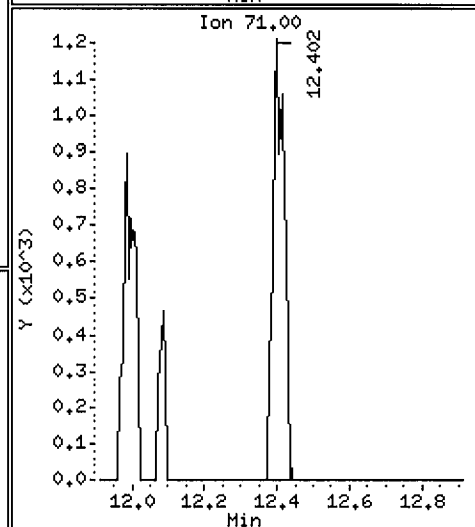
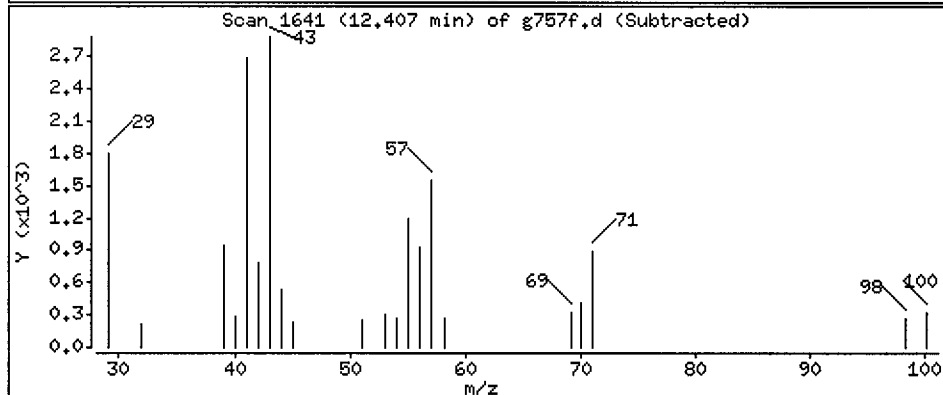
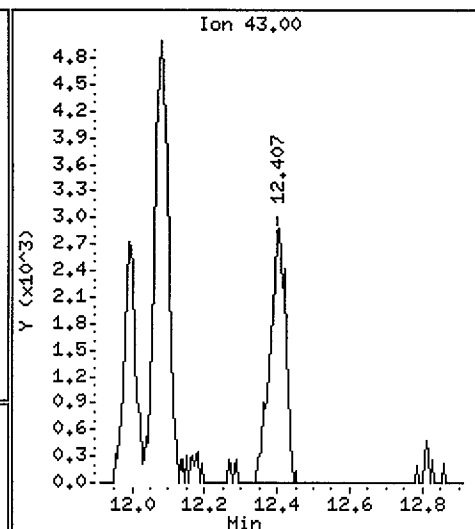
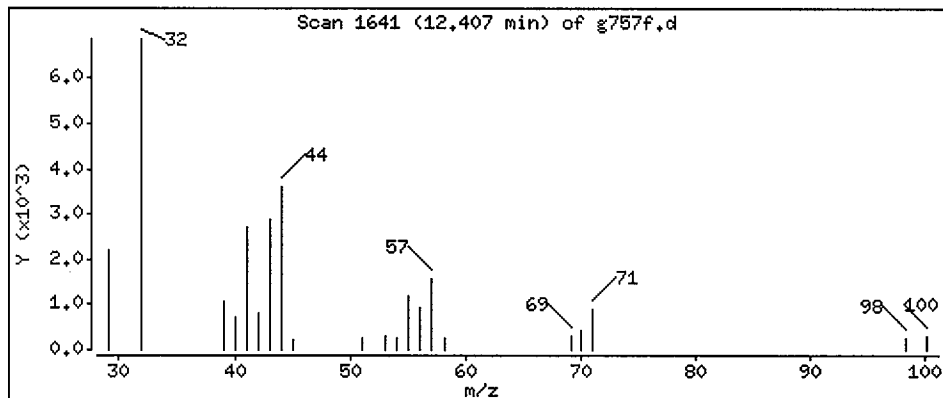
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

43 Heptane

Concentration: 0.2626 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,

Volume Injected (uL): 500.0

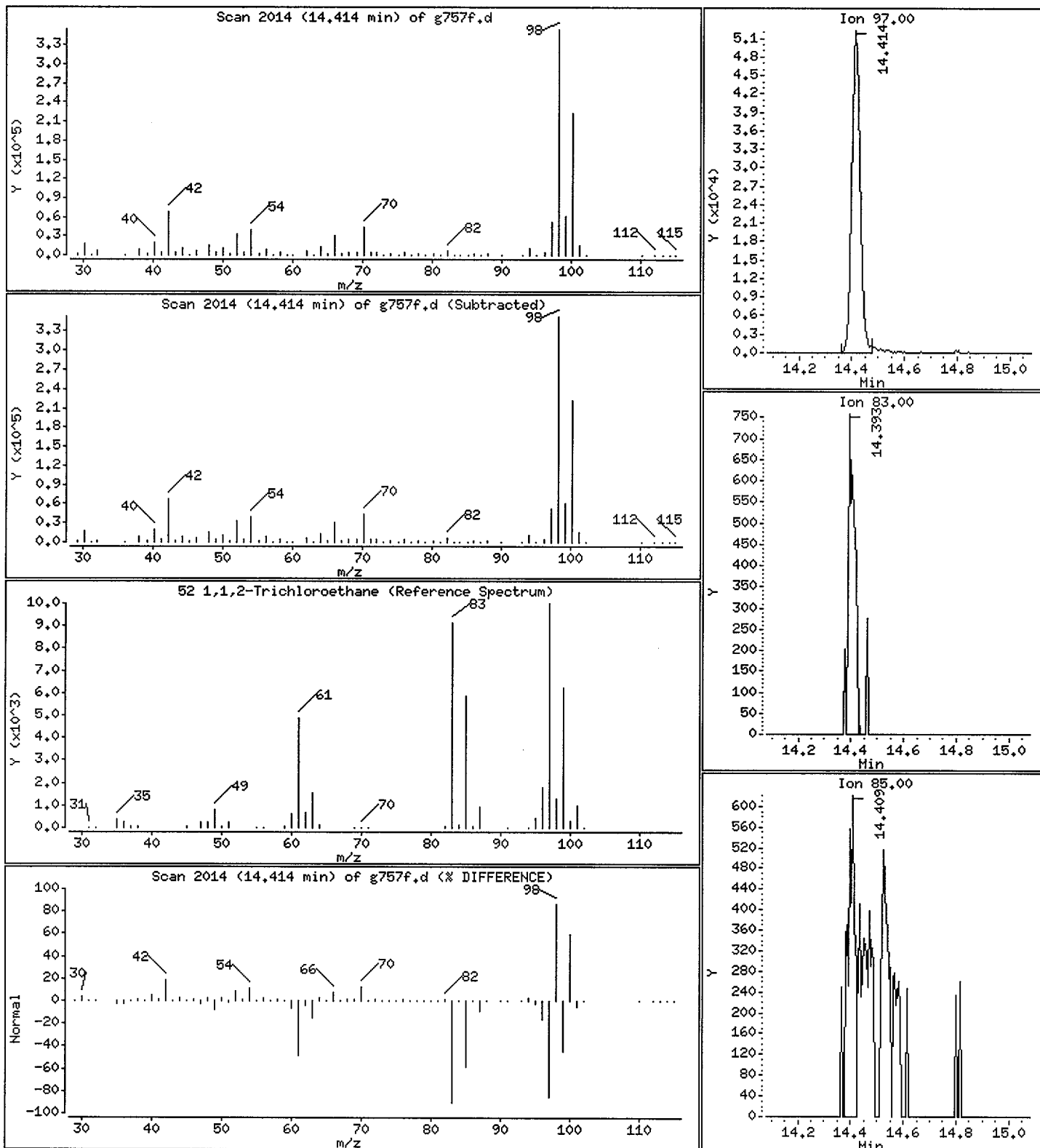
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

52 1,1,2-Trichloroethane

Concentration: 8.638 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d
 Report Date: 24-Apr-2005 14:41

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/me.i/E042205.b/g757f.d
 Lab Smp Id: G757F1AA Client Smp ID: SV-05-02
 Inj Date : 22-APR-2005 20:00
 Operator : 60487 Inst ID: me.i
 Smp Info : G757F1AA,4.73,0,,,
 Misc Info : E042205,LA,bridge.sub,,,150ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 14:40 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 2
 Dil Factor: 4.73000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	9.696	891011	10.000

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		LIB ENTRY	CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY			
----	-----	-----	-----	-----	-----	-----	-----	-----
d-Alanine					CAS #: 338-69-2			
3.870	7524132	84.4448834	399.4	2	NIST02.1	2118	1	
Propene					CAS #: 115-07-1			
4.080	109219	1.22578734	5.798	90	NIST02.1	55	1	
Ethane, 1-chloro-1,1-difluoro-					CAS #: 75-68-3			
4.317	228967	2.56974381	12.15	83	NIST02.1	3501	1	

Handwritten notes: "N/A" with an arrow pointing to the first row, and "4/27/05" with a signature.

Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4,73,0,,,

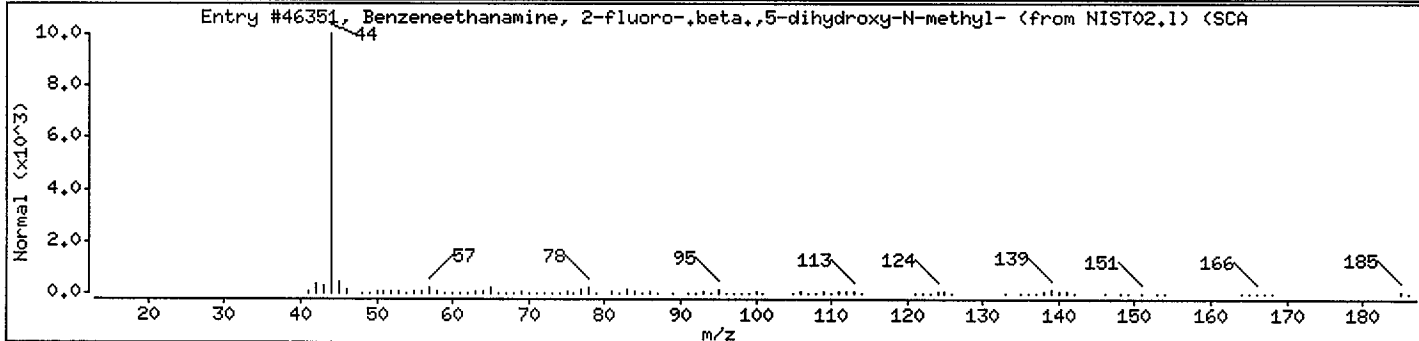
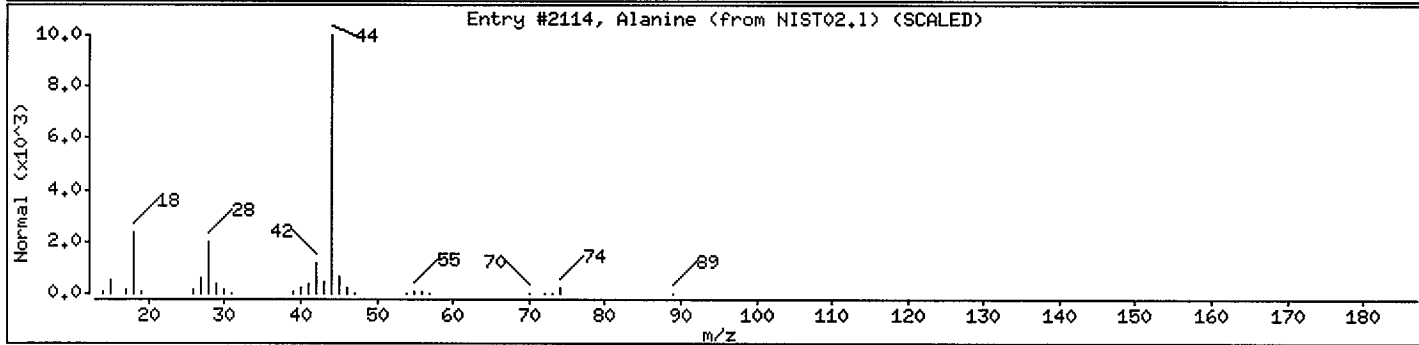
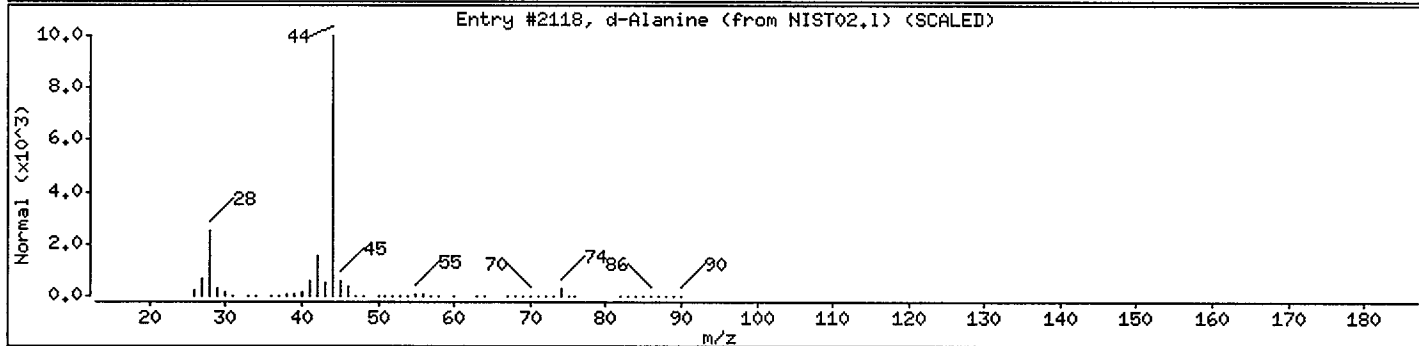
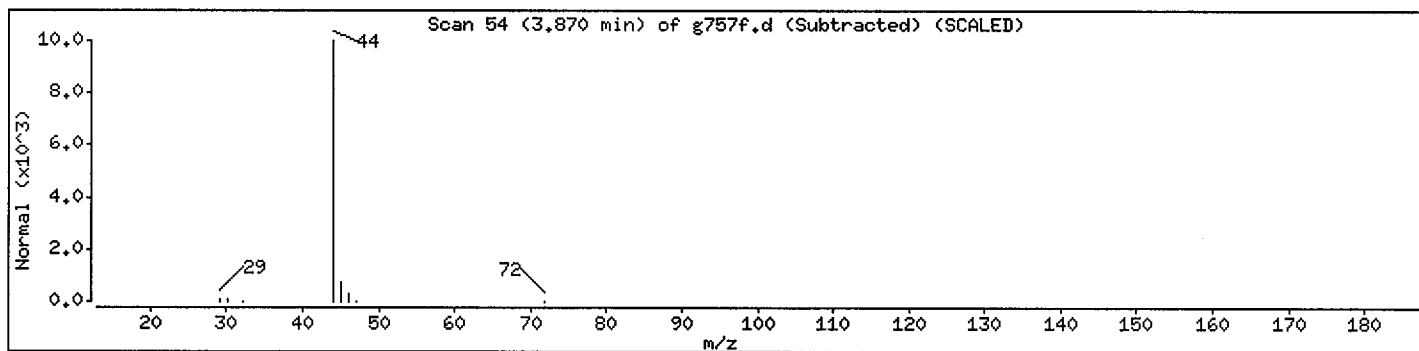
Volume Injected (uL): 500.0

Operator: 60487

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
d-Alanine	338-69-2	NIST02.1	2118	2	C3H7NO2	89
Alanine	56-41-7	NIST02.1	2114	2	C3H7NO2	89
Benzeneethanamine, 2-fluoro-,beta.,5-dih	103439-07-2	NIST02.1	46351	2	C9H12FN02	185



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,,

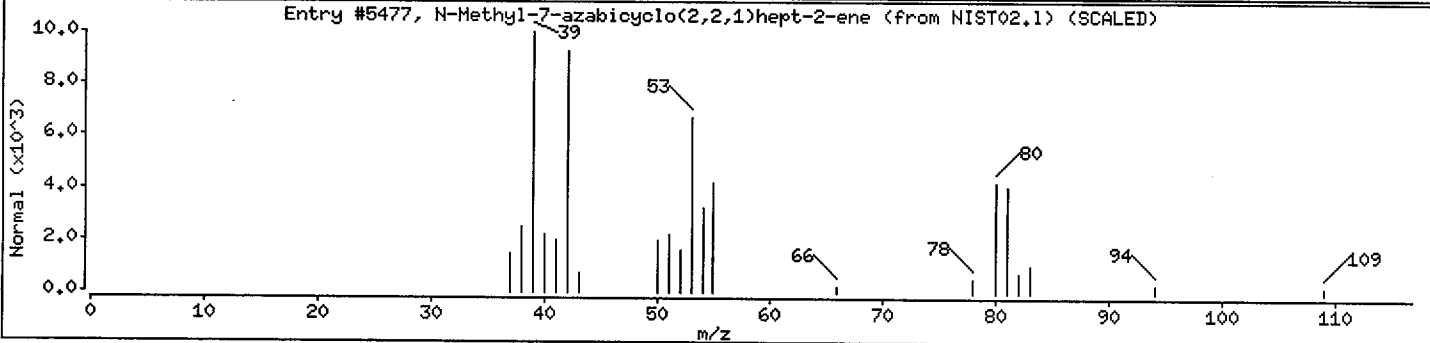
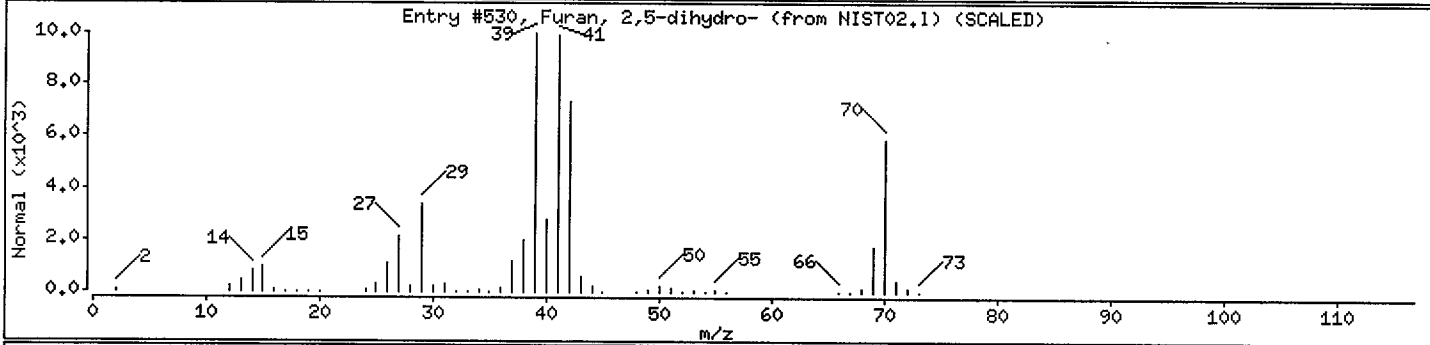
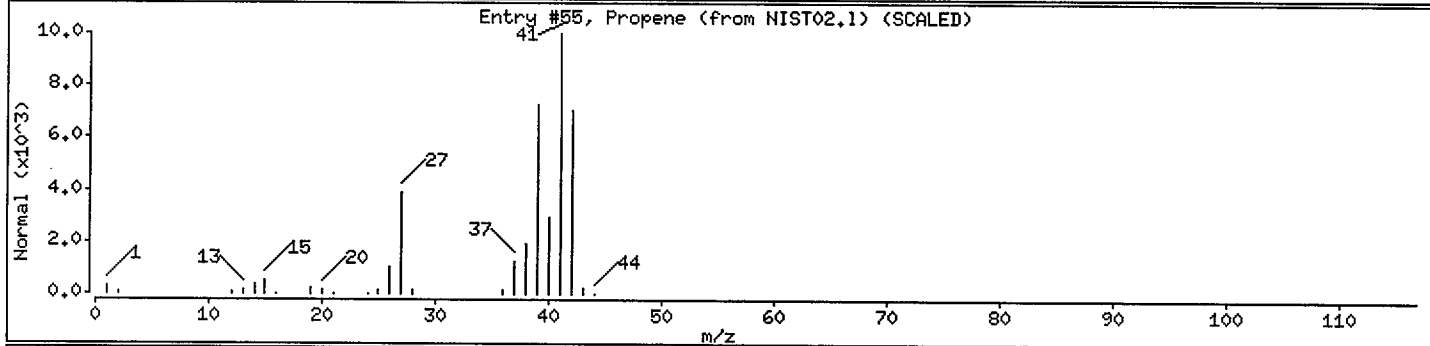
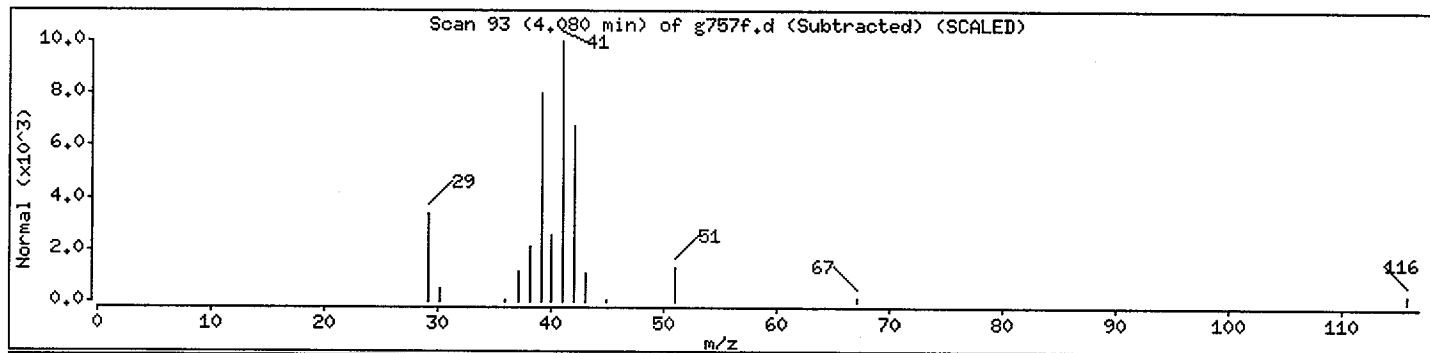
Volume Injected (uL): 500.0

Operator: 60487

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propene	115-07-1	NIST02.1	55	90	C3H6	42
Furan, 2,5-dihydro-	1708-29-8	NIST02.1	530	83	C4H6O	70
N-Methyl-7-azabicyclo(2,2,1)hept-2-ene	55590-26-6	NIST02.1	5477	83	C7H11N	109



Data File: /var/chem/gcms/me.i/E042205.b/g757f.d

Date : 22-APR-2005 20:00

Client ID: SV-05-02

Instrument: me.i

Sample Info: G757F1AA,4.73,0,,

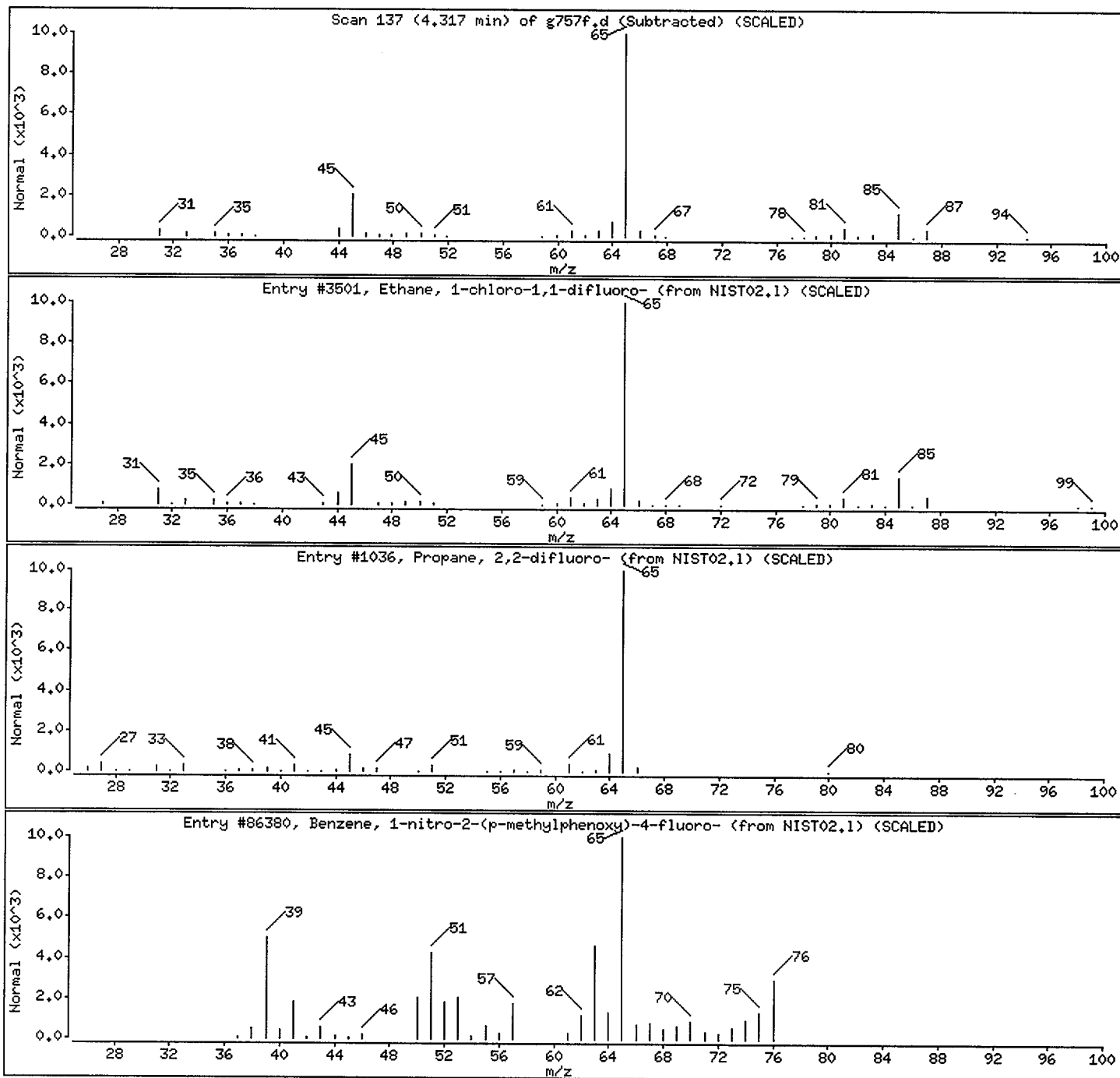
Volume Injected (uL): 500.0

Operator: 60487

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1-chloro-1,1-difluoro-	75-68-3	NIST02.1	3501	83	C2H3ClF2	100
Propane, 2,2-difluoro-	420-45-1	NIST02.1	1036	9	C3H6F2	80
Benzene, 1-nitro-2-(p-methylphenoxy)-4-f	28987-57-7	NIST02.1	86380	1	C13H10FN03	247



URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date...: 4/21/05

Prep Batch #.....: 5111152

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	0.32	0.20	1.3	0.82
n-Hexane	0.77	0.20	2.7	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	0.92	0.50	2.7	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	1.1	0.20	2.5	0.48
Dichlorodifluoromethane	1.9	0.20	9.6	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	0.50	0.20	2.8	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	0.90	0.50	3.1	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	2.0	0.20	6.5	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	1.4	0.20	5.3	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	0.54	0.20	3.7	1.4

URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	1.3	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-04
GC/MS Volatiles

Lot-Sample # H5D120102 - 002

Work Order # G757G1AA

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	106	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
Report Date: 21-Apr-2005 10:21

STL Knoxville

Modified Method TO-14/TO-15
Data file : /var/chem/gcms/mt.i/T042005.b/g757g.d
Lab Smp Id: G757G1AA Client Smp ID: SV-05-04
Inj Date : 21-APR-2005 01:29
Operator : 7126 Inst ID: mt.i
Smp Info : G757G1AA,,0,,
Misc Info : T042005,LA,bridge.sub,,,1225 ML
Comment :
Method : /var/chem/gcms/mt.i/T042005.b/LA.m
Meth Date : 21-Apr-2005 10:17 tajh Quant Type: ISTD
Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bridge.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Handwritten signature
4/26/05

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.111	10.111	(1.000)	109498	10.0000	
* 2 1,4-Difluorobenzene	114	12.185	12.185	(1.000)	370628	10.0000	
* 3 Chlorobenzene-d5	117	16.705	16.714	(1.000)	342171	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.083	11.092	(0.910)	81890	10.8175	10.82
\$ 5 Toluene-d8	98	14.692	14.701	(0.880)	310945	9.63675	9.637
\$ 6 4-Bromofluorobenzene	95	18.275	18.284	(1.094)	250244	10.6527	10.65
8 Dichlorodifluoromethane	85	4.480	4.481	(0.443)	93414	1.93159	1.932
14 n-Butane	43	5.036	5.036	(0.498)	33495	1.05224	1.052
17 Trichlorofluoromethane	101	6.276	6.268	(0.621)	21626	0.49572	0.4957
21 Pentane	57	6.528	6.528	(0.646)	4586	0.91551	0.9155
25 1,1,2-Trichlorotrifluoroethane	101	7.265	7.266	(0.719)	4465	0.11719	0.1172
26 Methylene Chloride	84	7.439	7.430	(0.736)	15200	0.89562	0.8956
30 Methyl-t-Butyl Ether	73	8.471	8.463	(0.838)	3542	0.19353	0.1935
34 Hexane	56	9.374	9.374	(0.927)	11037	0.77027	0.7703
36 Chloroform	83	10.128	10.120	(1.002)	2034	0.05974	0.05974
37 1,1,1-Trichloroethane	97	11.135	11.135	(1.101)	3460	0.11643	0.1164
39 Benzene	78	11.690	11.690	(0.959)	80770	2.04665	2.047
42 Carbon Tetrachloride	117	11.708	11.716	(1.158)	1947	0.06062	0.06062
43 Heptane	43	12.740	12.740	(1.046)	9932	0.32293	0.3229
51 Toluene	91	14.805	14.805	(0.886)	57868	1.41052	1.410
57 Tetrachloroethene	129	15.907	15.907	(0.952)	9583	0.54359	0.5436

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
Report Date: 21-Apr-2005 10:21

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	=====	==	=====	=====	=====		=====	=====
60 m-Xylene (For p-)	91	17.182	17.191	(1.029)	1882		0.05052	0.05052

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
 Report Date: 21-Apr-2005 10:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i
 Lab File ID: g757g.d
 Lab Smp Id: G757G1AA
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 7126

Calibration Date: 20-APR-2005
 Calibration Time: 11:25
 Client Smp ID: SV-05-04
 Level: LOW
 Sample Type: AIR

Method File: /var/chem/gcms/mt.i/T042005.b/LA.m
 Misc Info: T042005,LA,bridge.sub,,,1225 ML

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	139888	83233	196543	109498	-21.72
2 1,4-Difluorobenze	473126	281510	664742	370628	-21.66
3 Chlorobenzene-d5	435347	259031	611663	342171	-21.40

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	10.11	9.78	10.44	10.11	0.00
2 1,4-Difluorobenze	12.18	11.85	12.51	12.18	0.00
3 Chlorobenzene-d5	16.71	16.38	17.04	16.70	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
 Report Date: 21-Apr-2005 10:21

STL Knoxville

RECOVERY REPORT

Client Name: URS Corporation

Sample Matrix: GAS

Lab Smp Id: G757G1AA

Level: LOW

Data Type: MS DATA

SpikeList File: all.spk

Sublist File: bridge.sub

Method File: /var/chem/gcms/mt.i/T042005.b/LA.m

Misc Info: T042005,LA,bridge.sub,,,1225 ML

Client SDG: H5D120102

Fraction: OTHER

Client Smp ID: SV-05-04

Operator: 7126

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	10.82	108.17	70-130
\$ 5 Toluene-d8	10.00	9.637	96.37	70-130
\$ 6 4-Bromofluorobenze	10.00	10.65	106.53	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date: 21-APR-2005 01:29

Client ID: SV-05-04

Sample Info: G757G1A4,,0,,

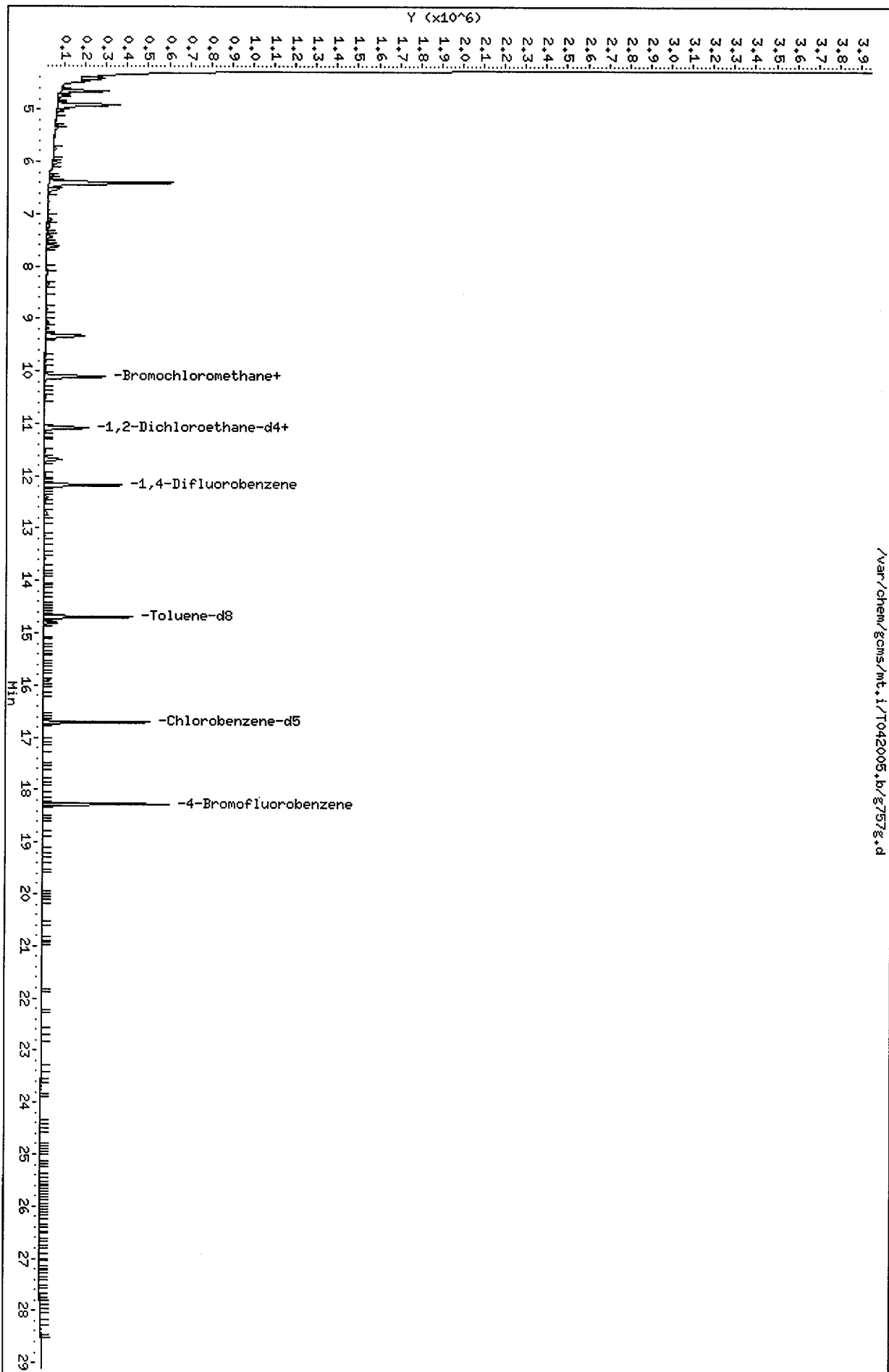
Volume Injected (uL): 500.0

Column phase: DB-5

Instrument: mt.i

Operator: 7126

Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

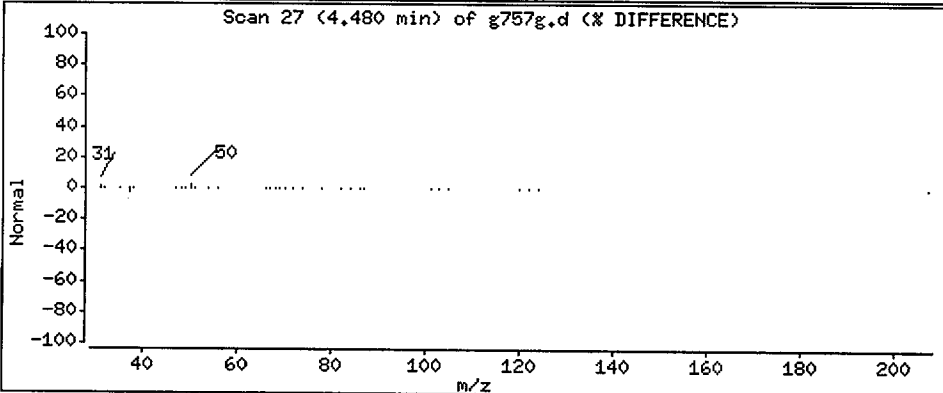
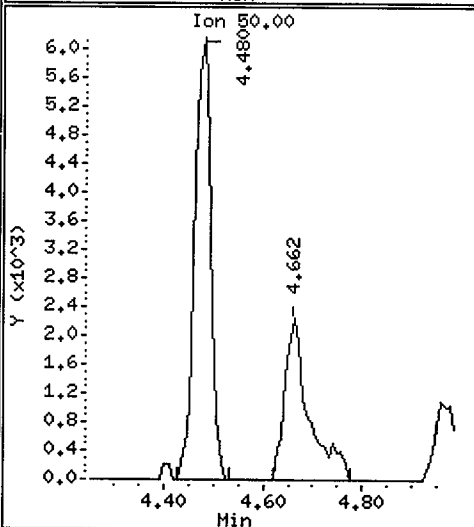
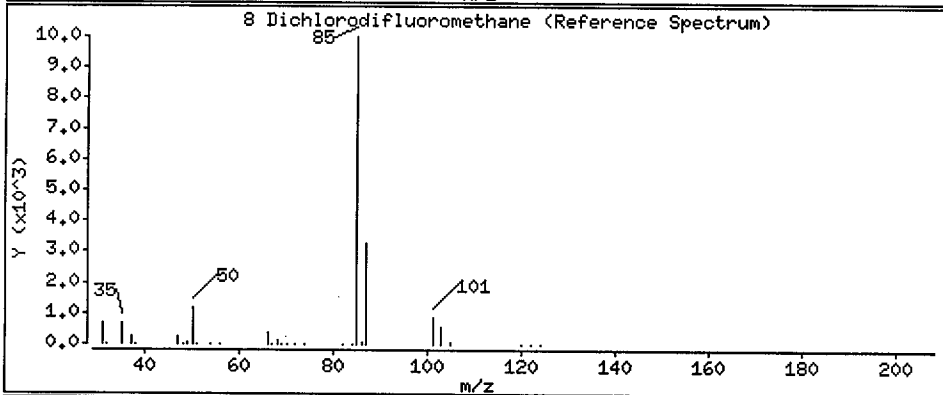
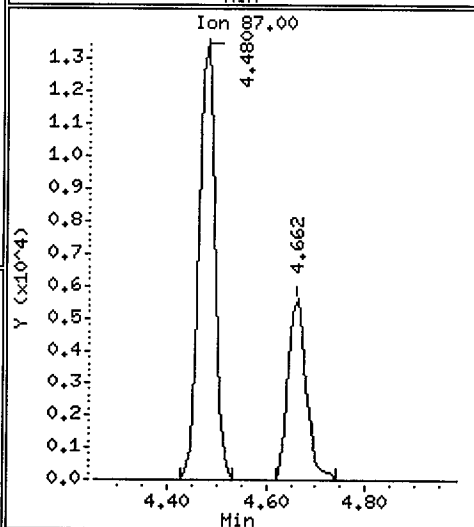
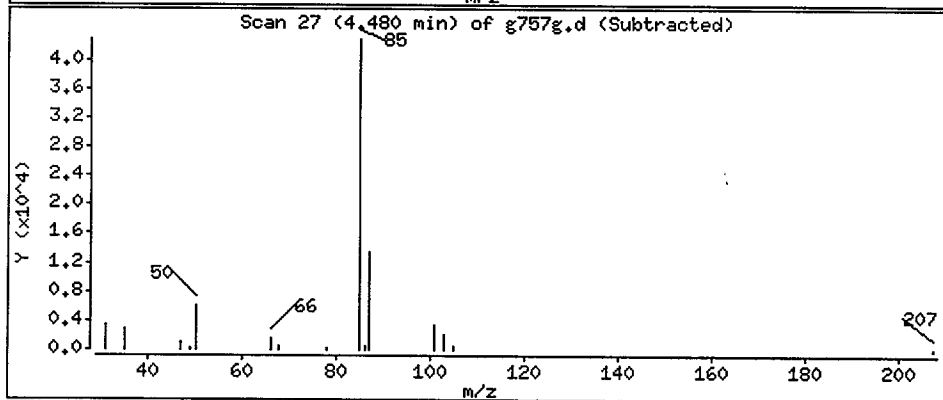
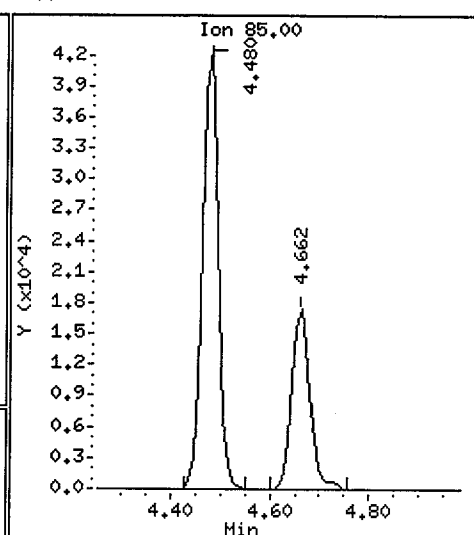
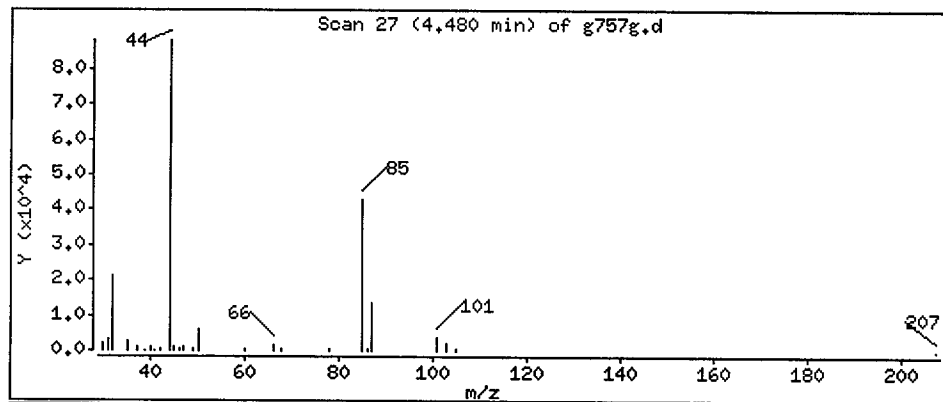
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

8 Dichlorodifluoromethane

Concentration: 1.932 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt,i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

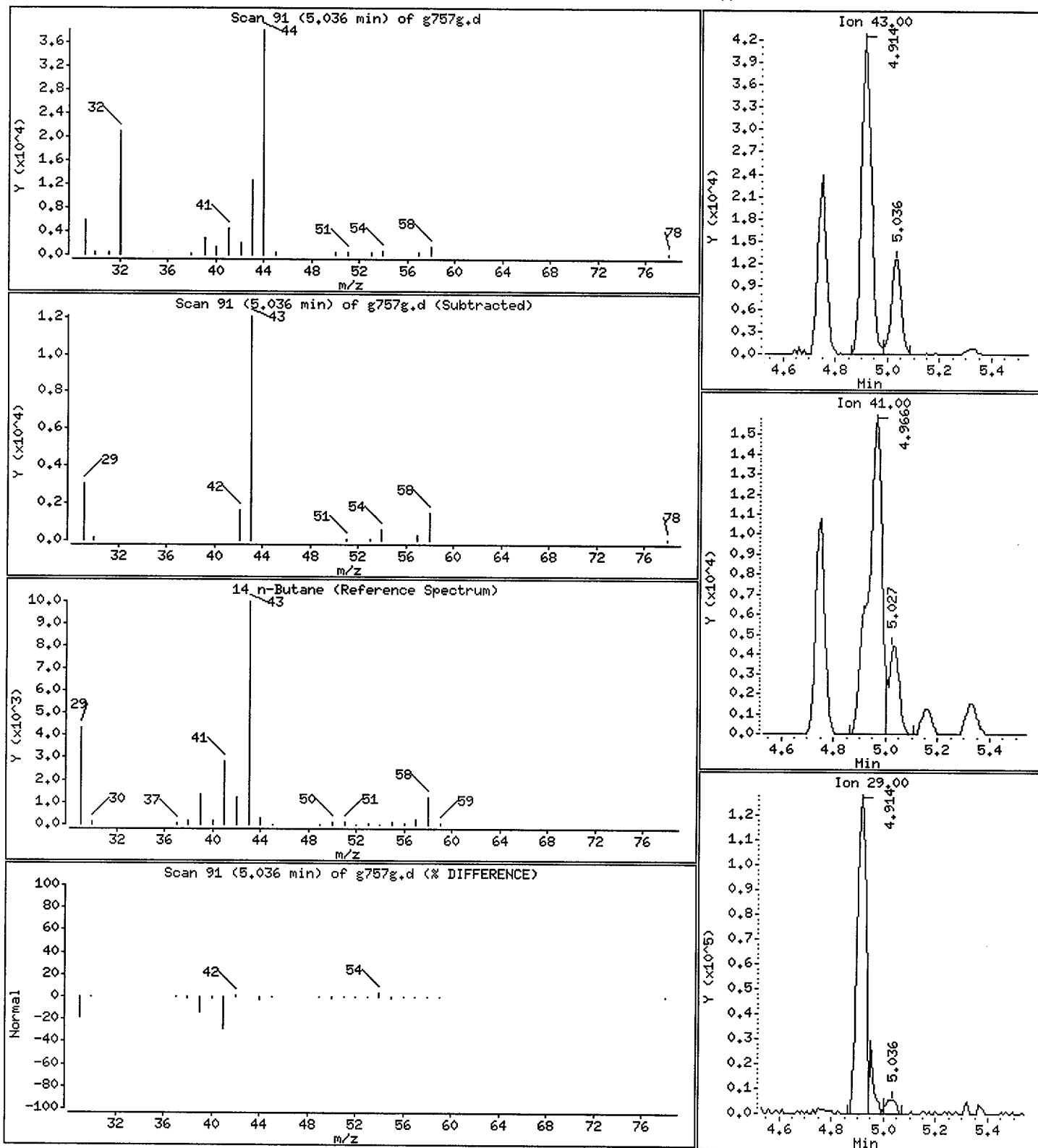
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 1.052 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

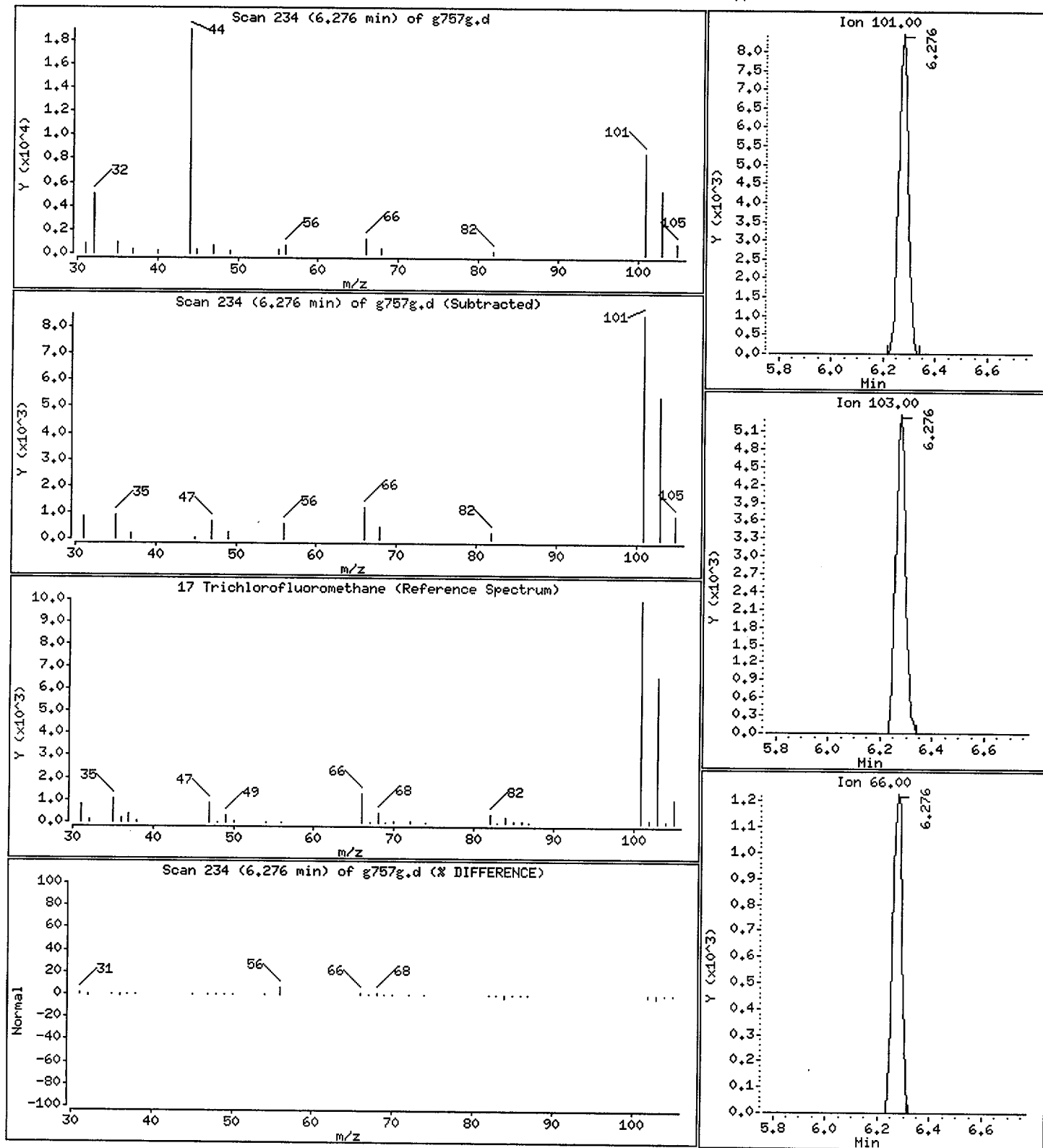
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

17 Trichlorofluoromethane

Concentration: 0.4957 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

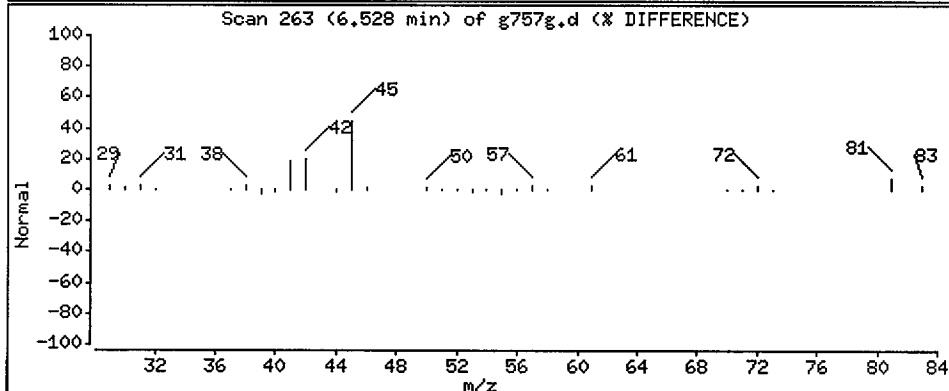
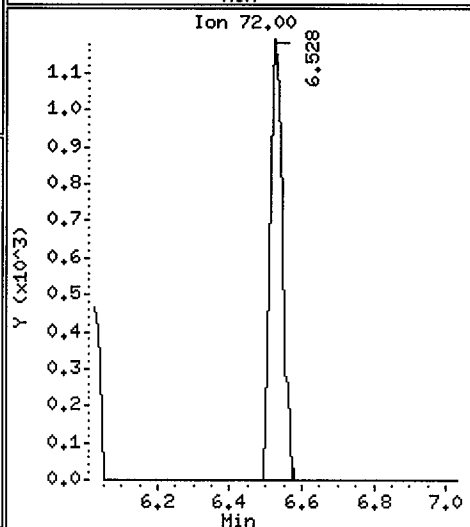
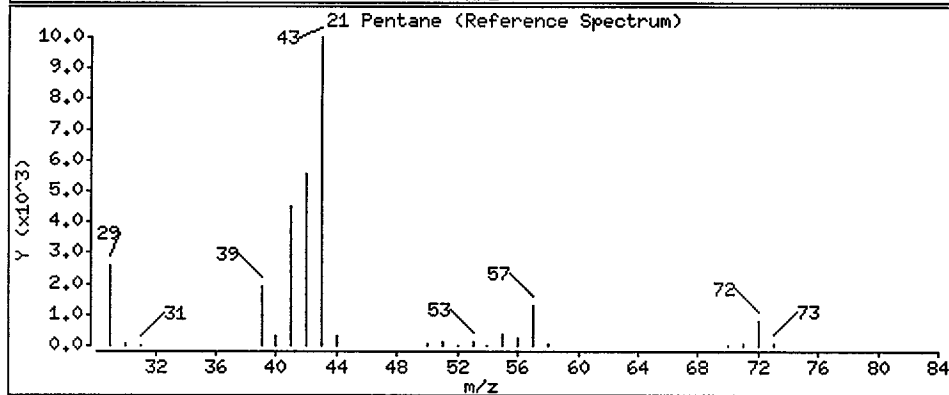
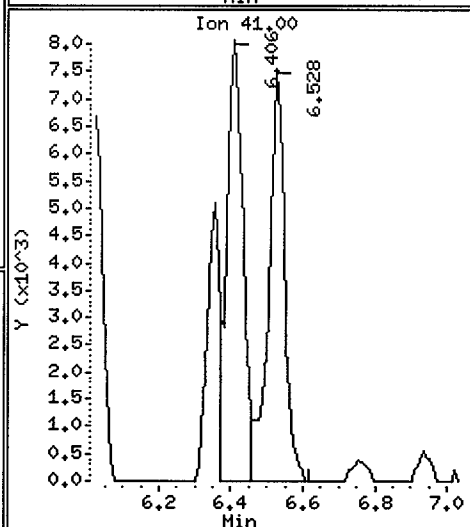
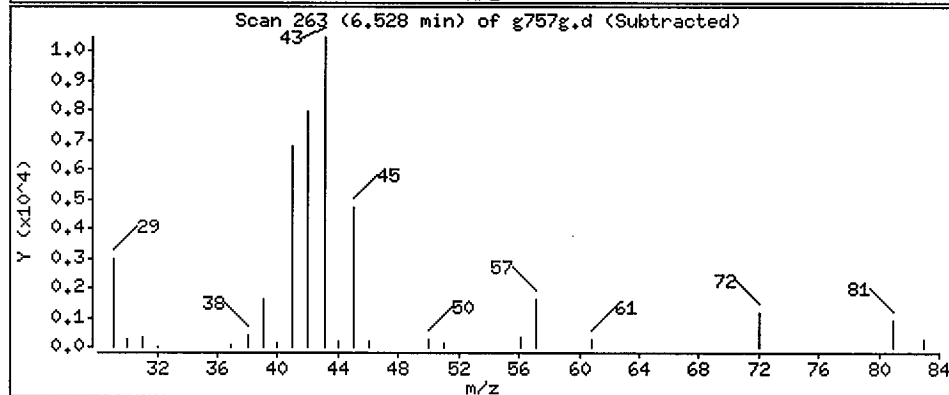
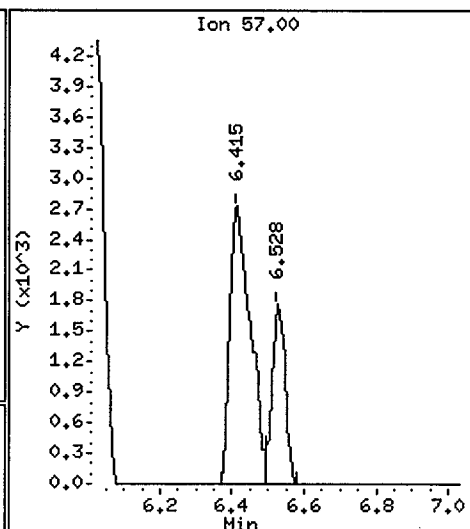
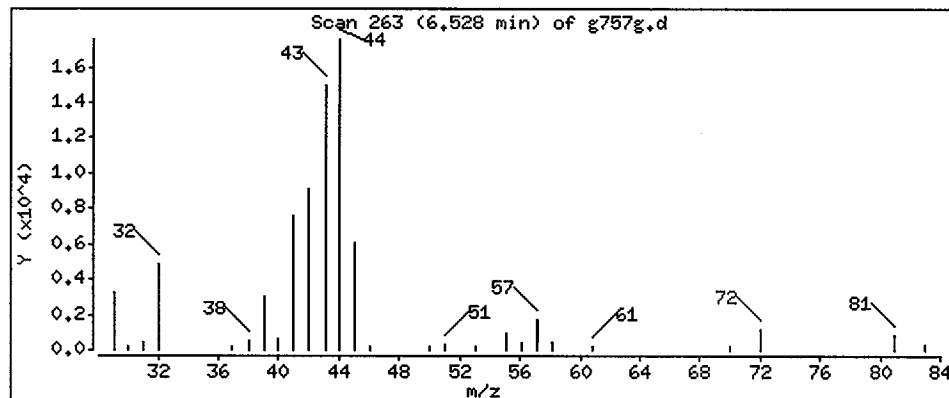
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

21 Pentane

Concentration: 0.9155 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

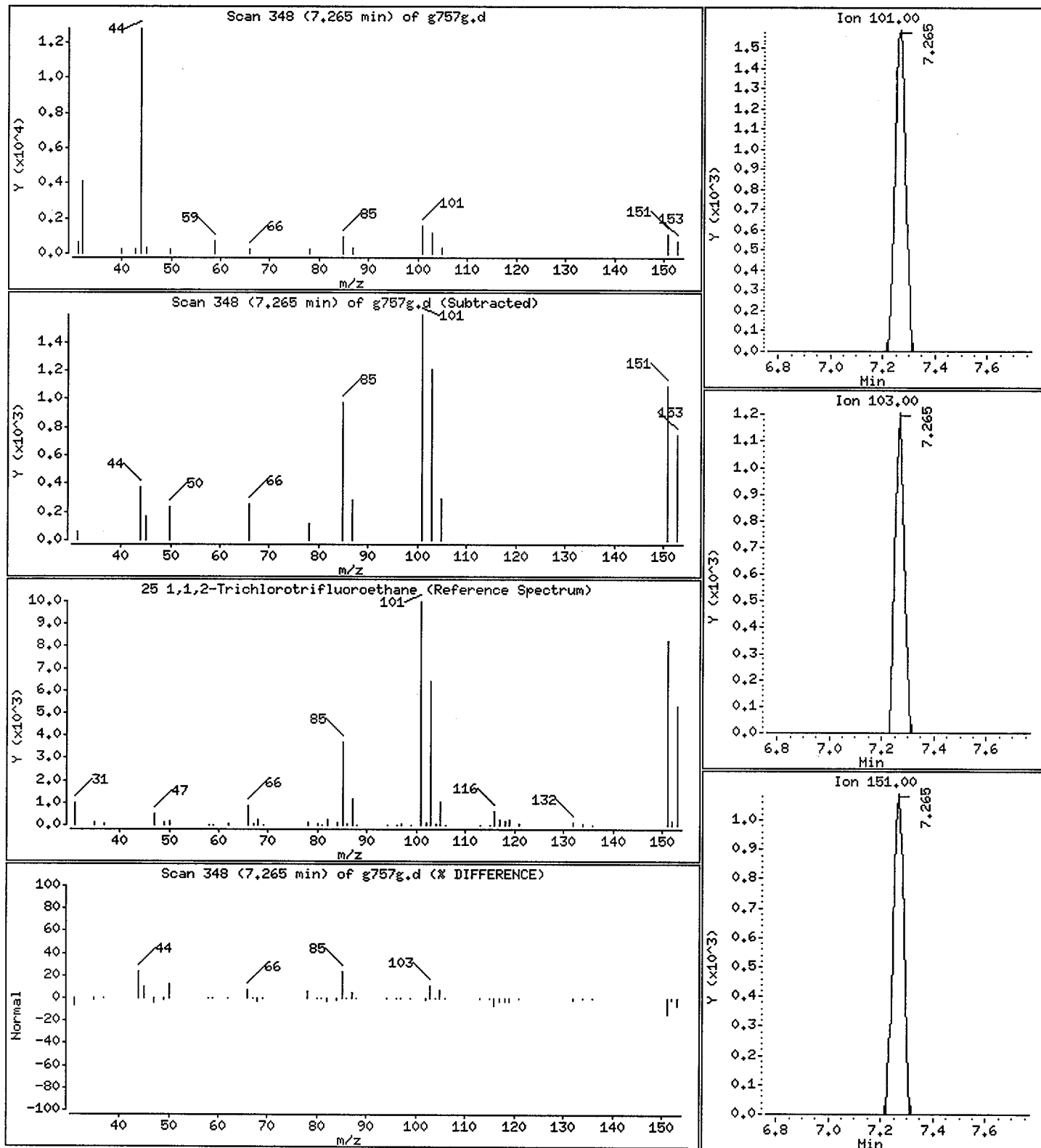
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

25 1,1,2-Trichlorotrifluoroethane

Concentration: 0.1172 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757g.d

Date: 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

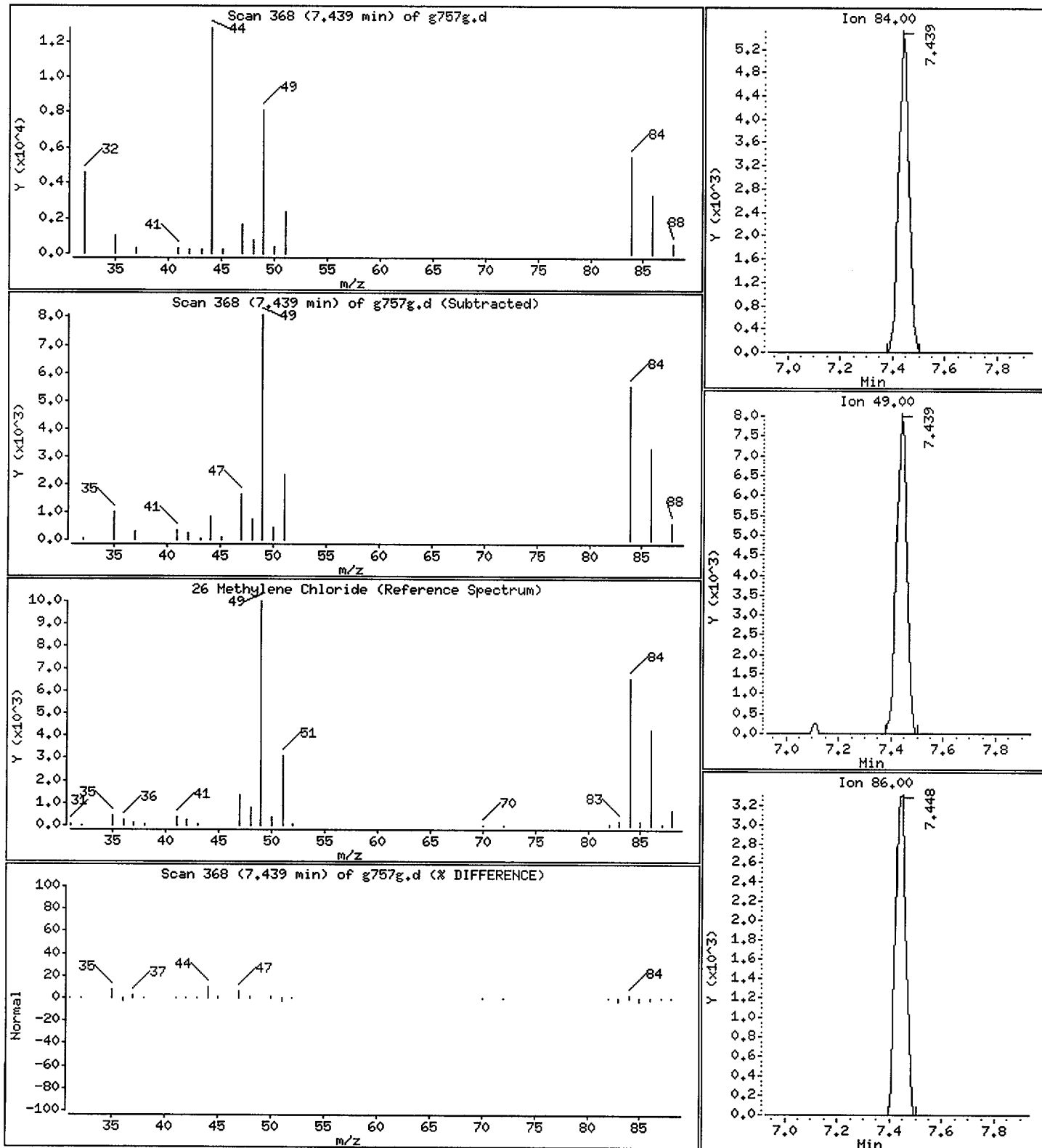
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

26 Methylene Chloride

Concentration: 0.8956 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

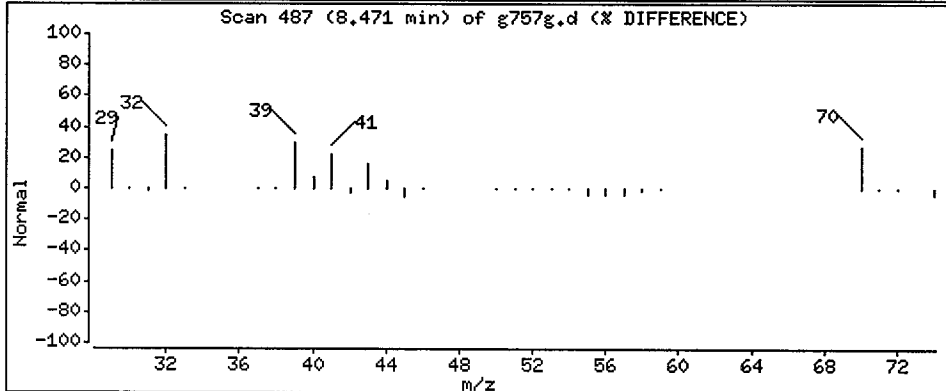
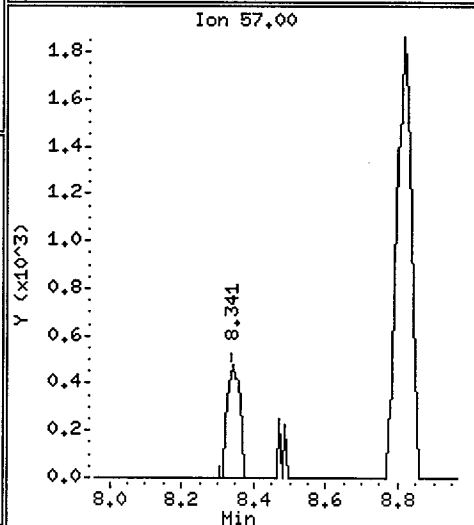
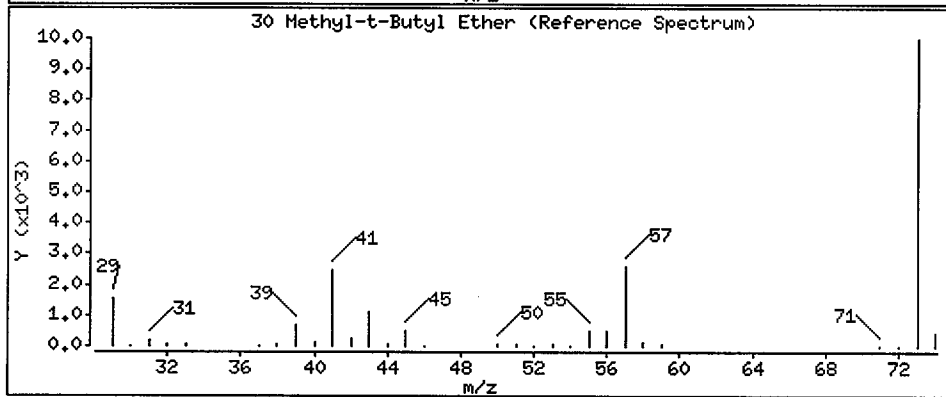
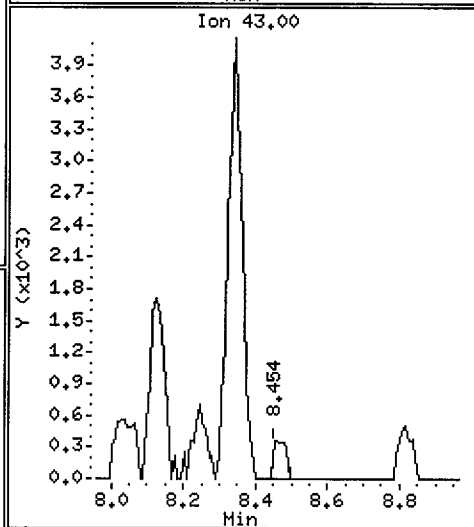
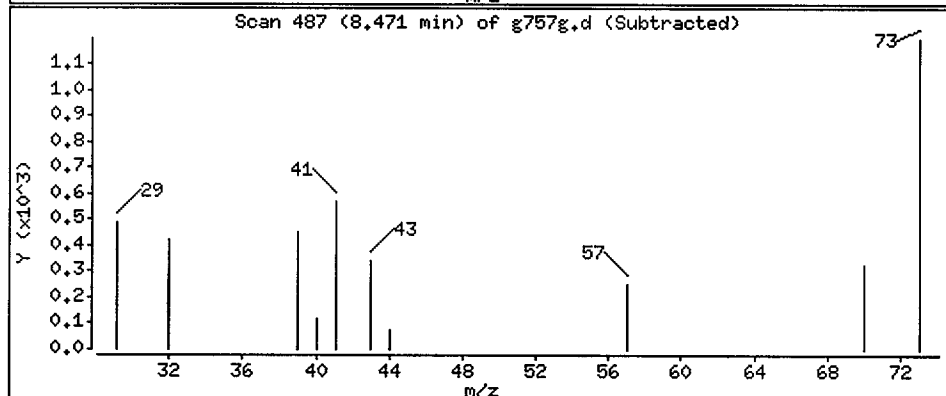
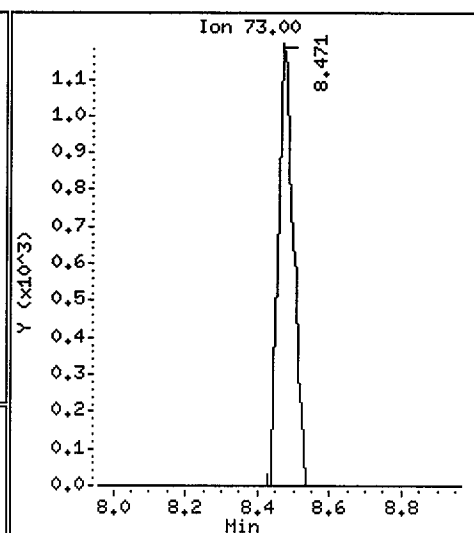
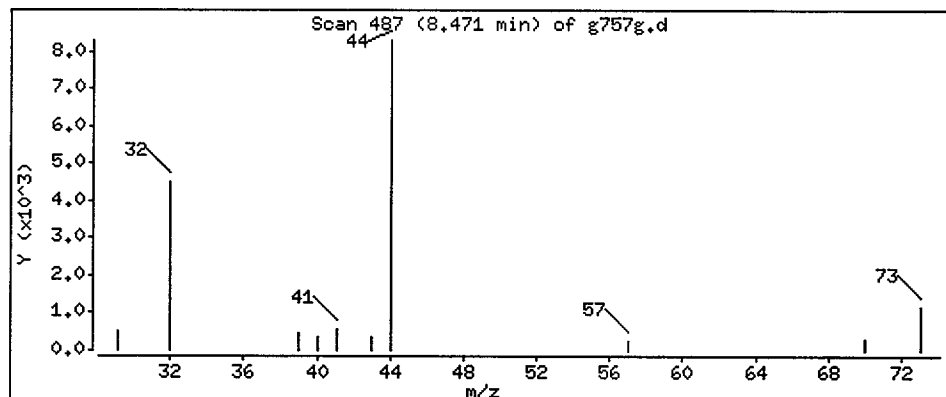
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

30 Methyl-t-Butyl Ether

Concentration: 0.1935 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

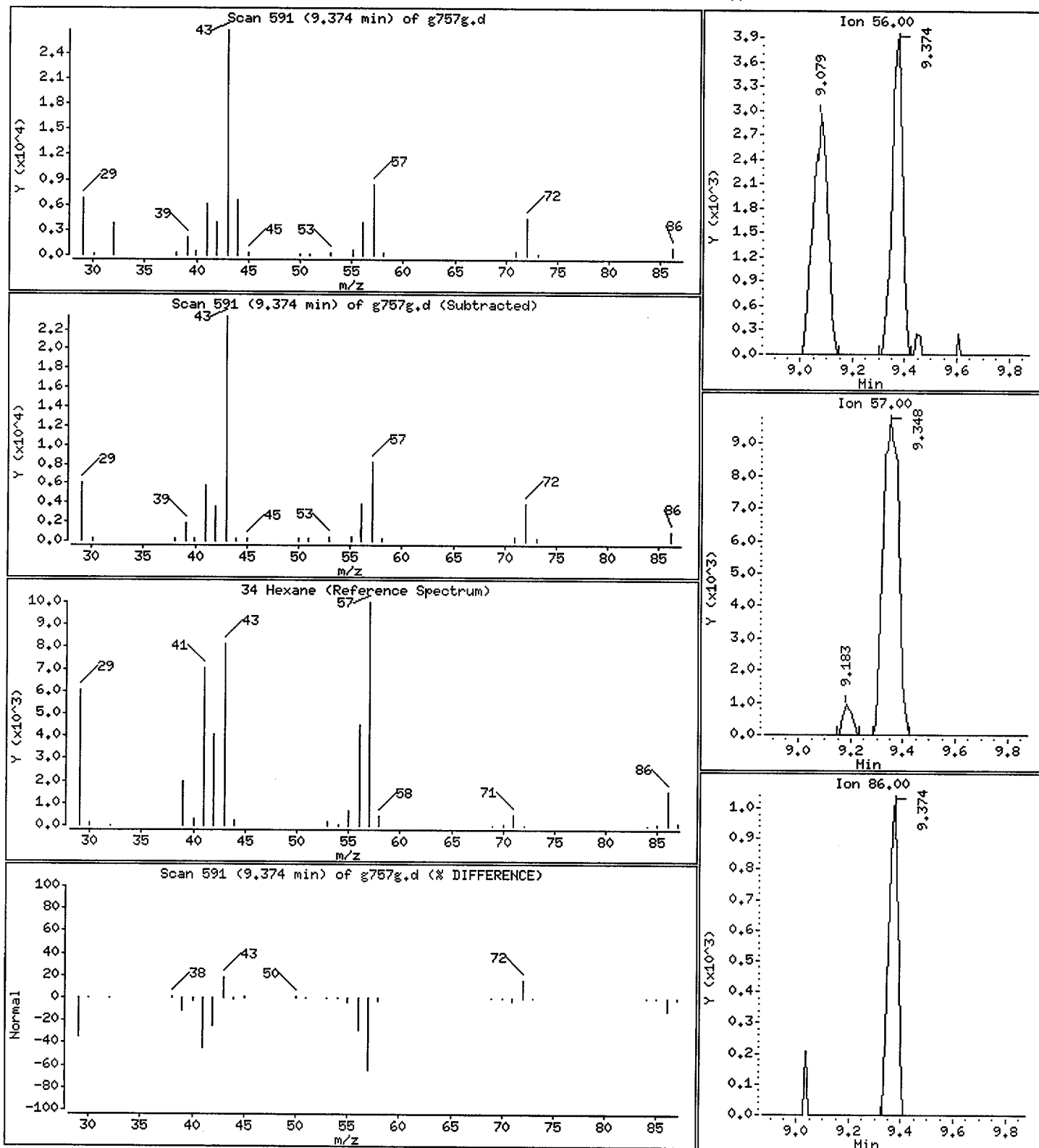
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

34 Hexane

Concentration: 0.7703 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

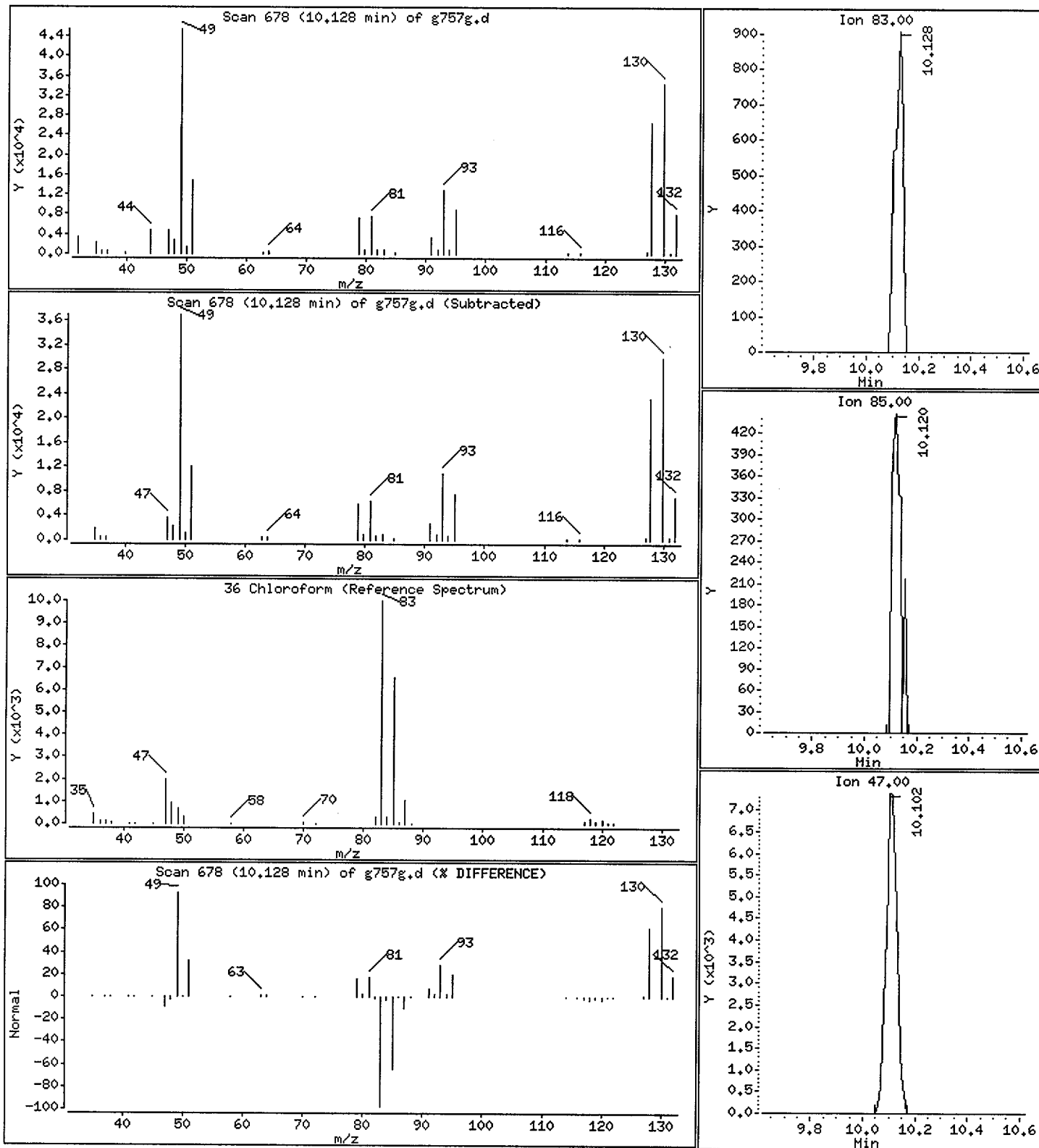
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

36 Chloroform

Concentration: 0.05974 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

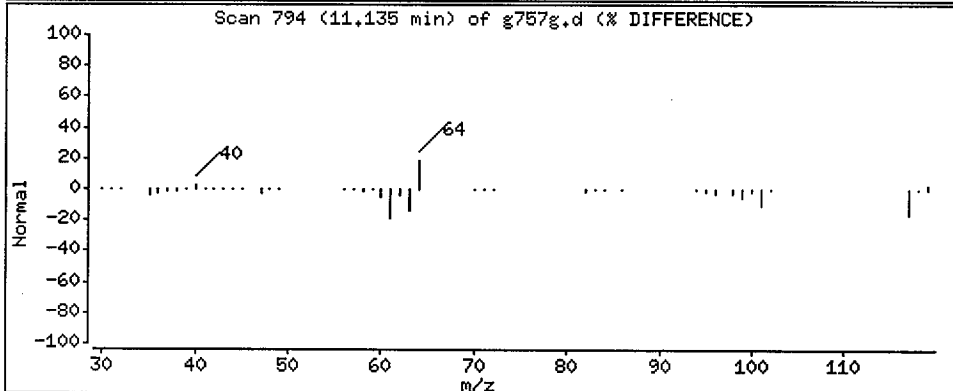
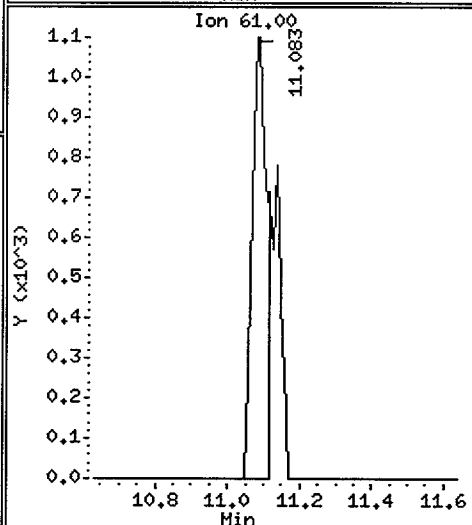
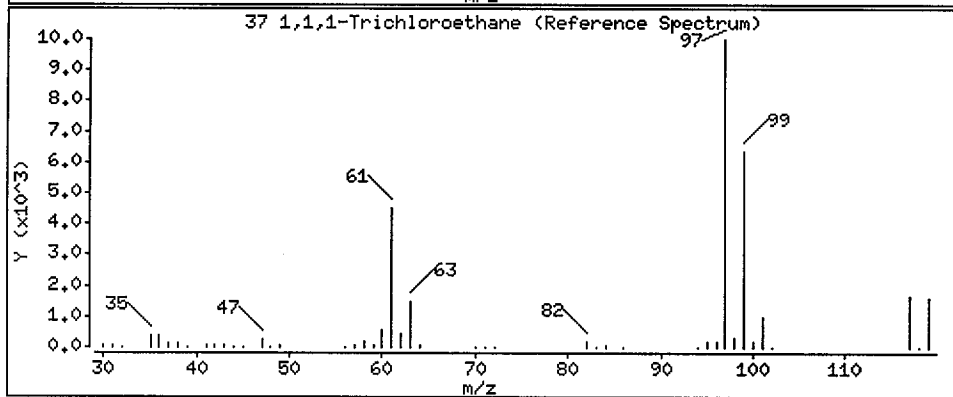
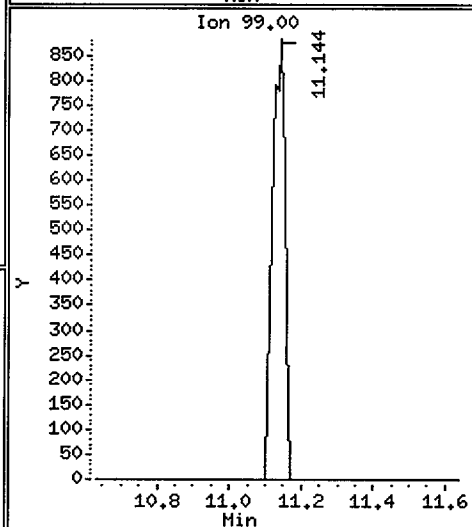
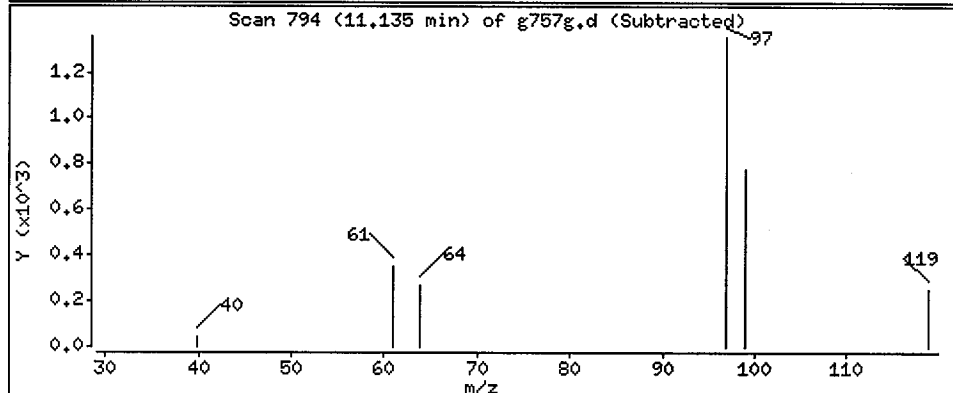
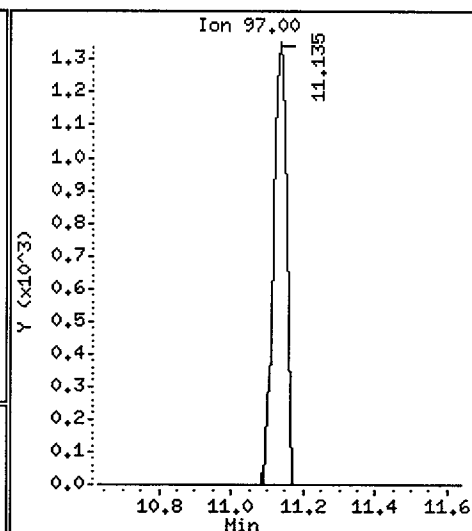
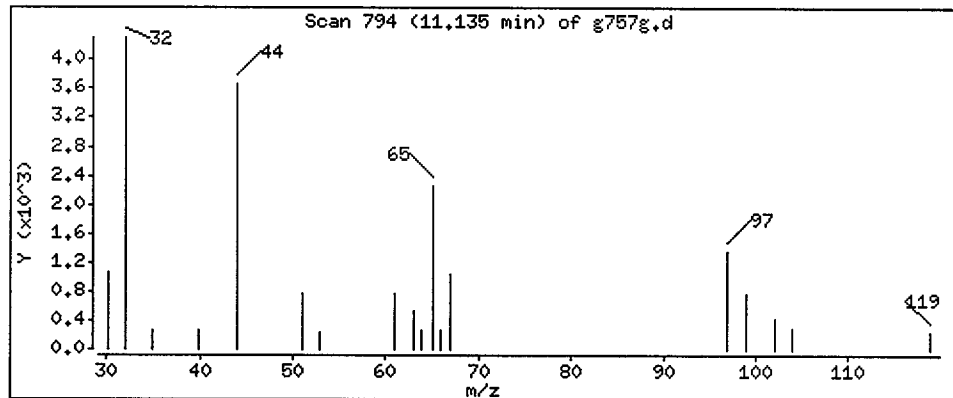
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 0.1164 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

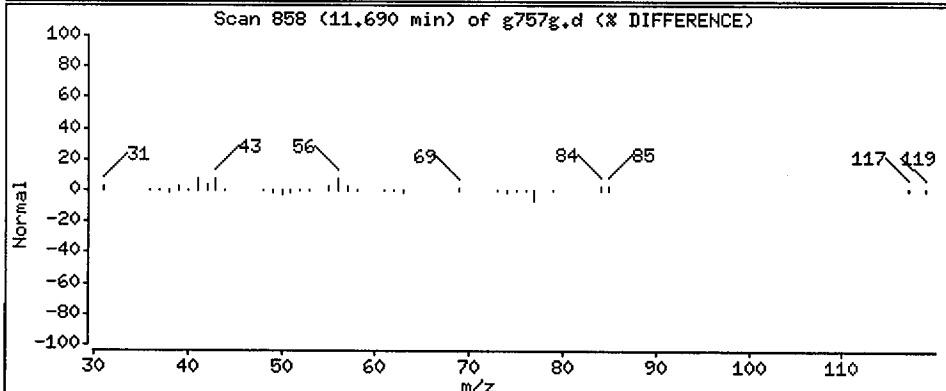
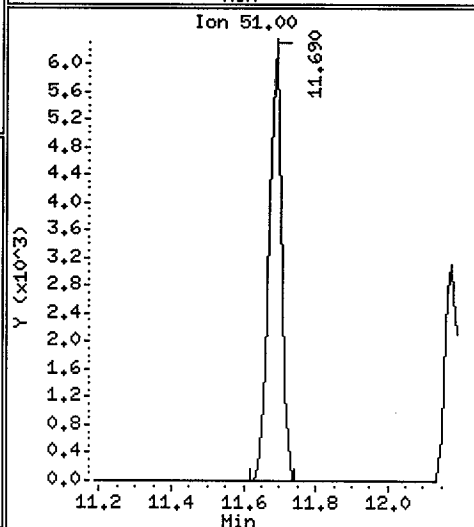
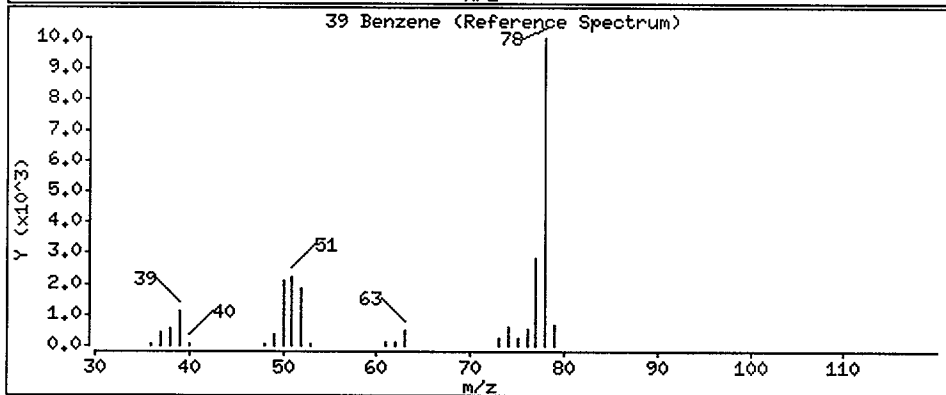
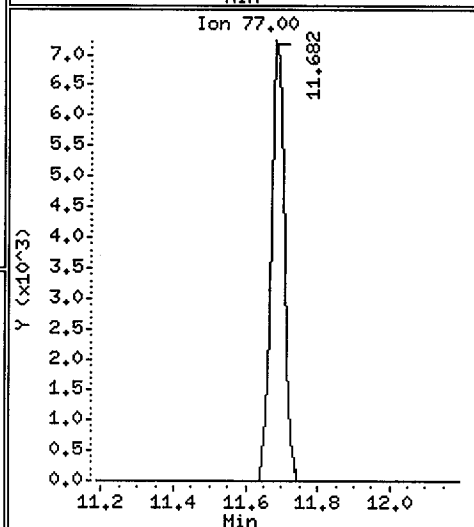
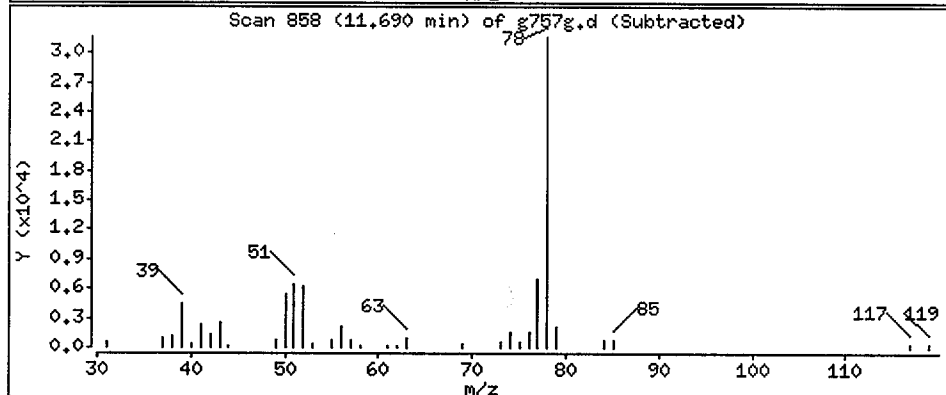
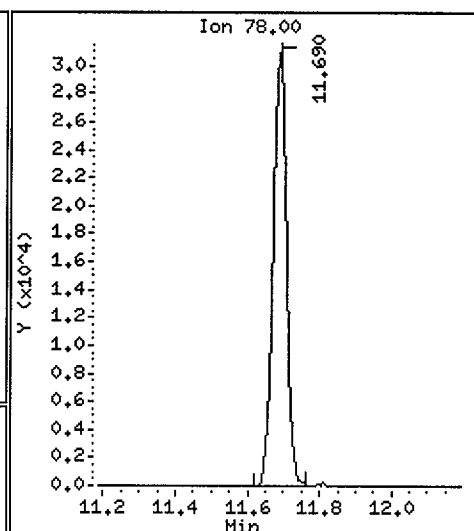
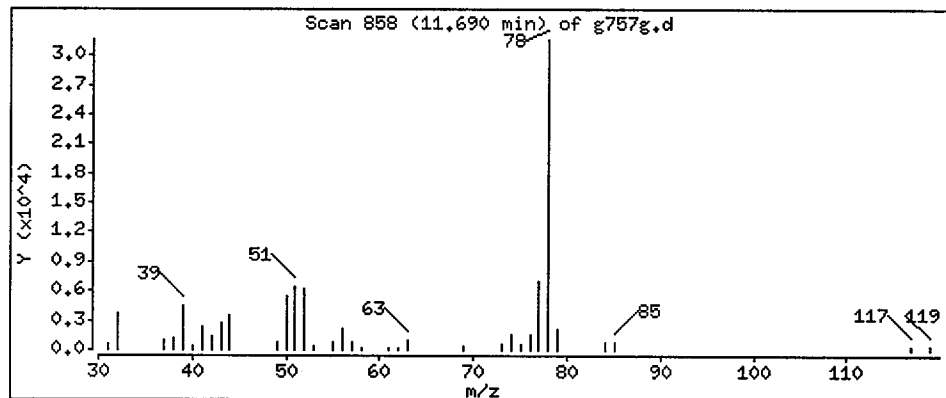
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

39 Benzene

Concentration: 2.047 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt,i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

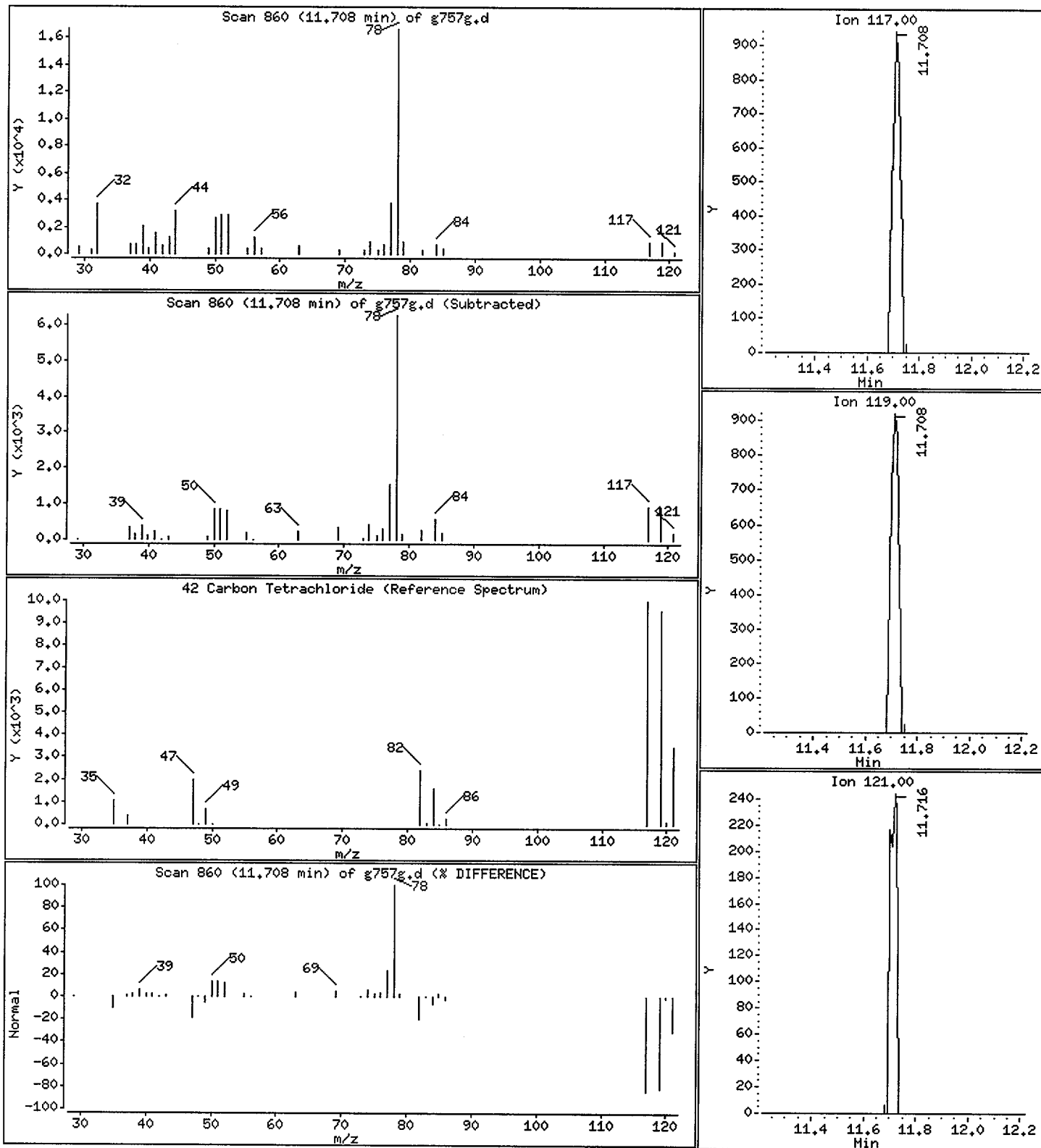
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

42 Carbon Tetrachloride

Concentration: 0.06062 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

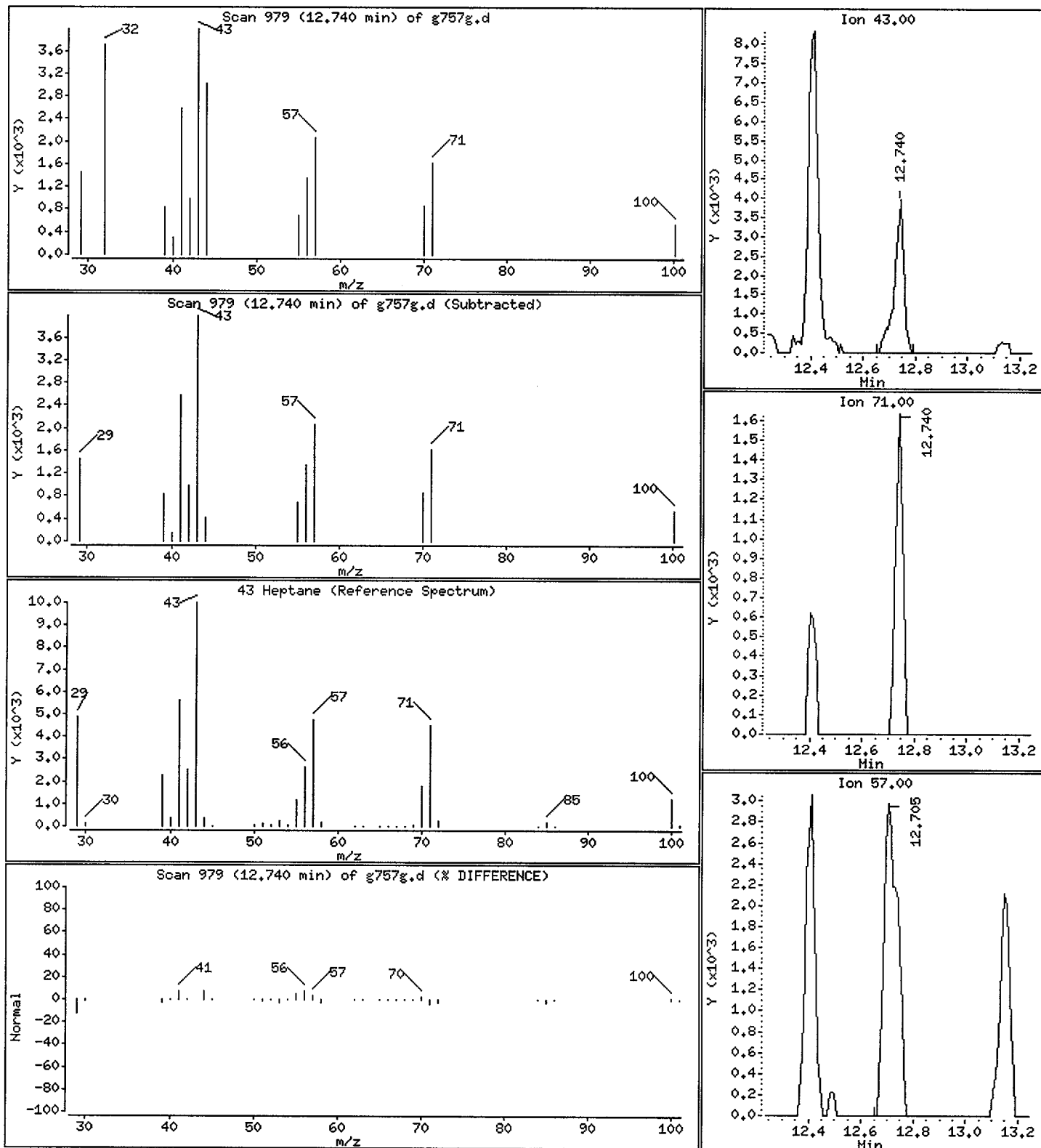
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

43 Heptane

Concentration: 0.3229 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

Operator: 7126

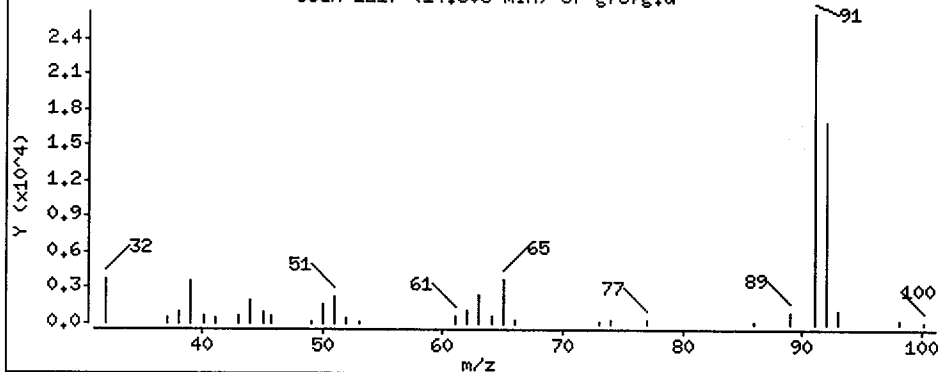
Column phase: DB-5

Column diameter: 0.32

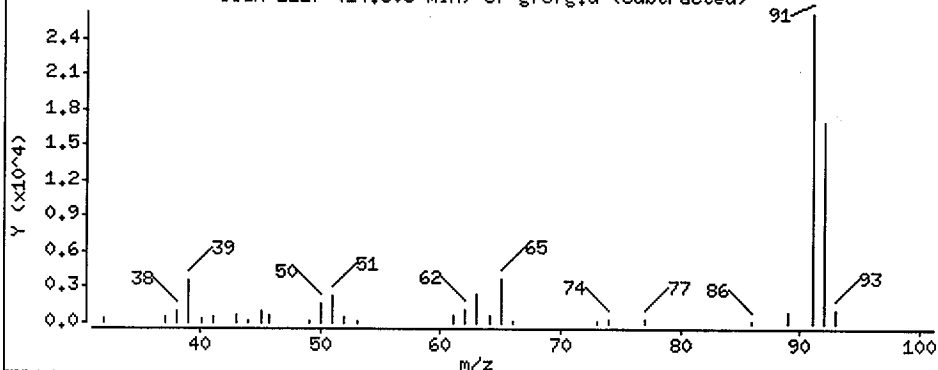
51 Toluene

Concentration: 1.410 ppb(v/v)

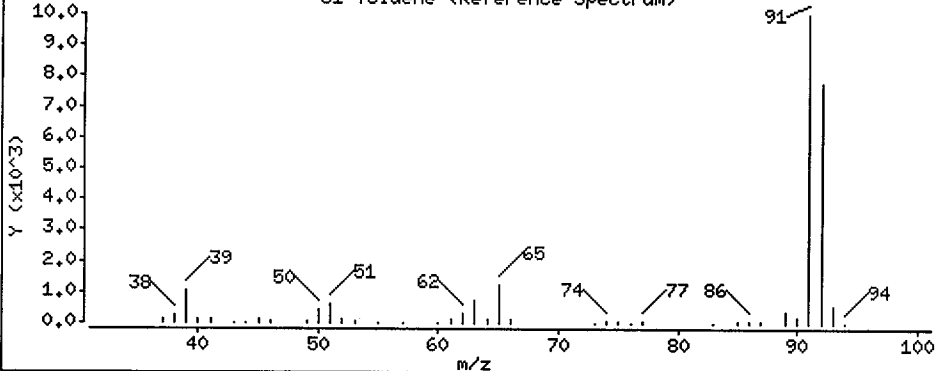
Scan 1217 (14.805 min) of g757g.d



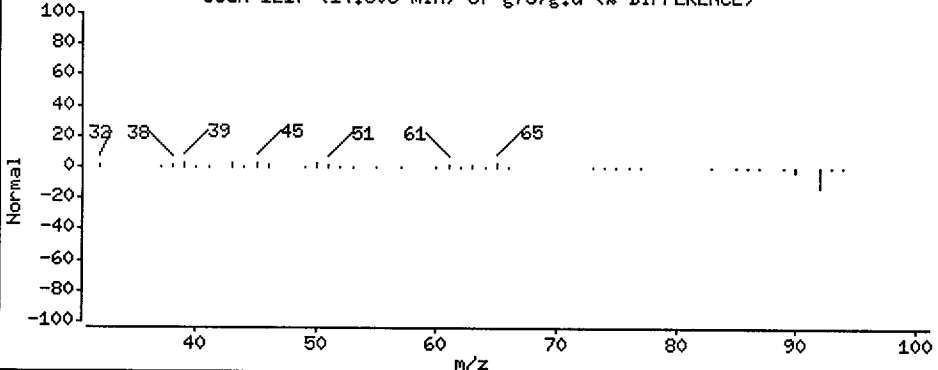
Scan 1217 (14.805 min) of g757g.d (Subtracted)



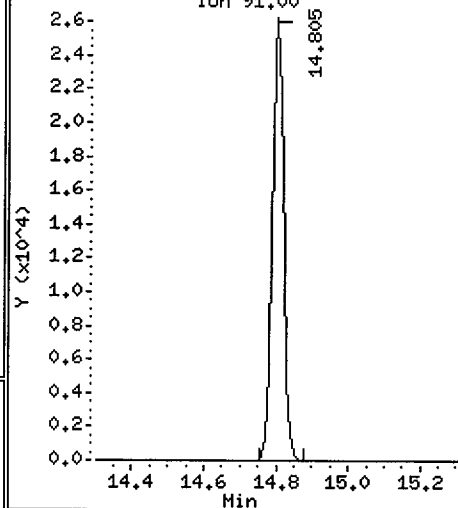
51 Toluene (Reference Spectrum)



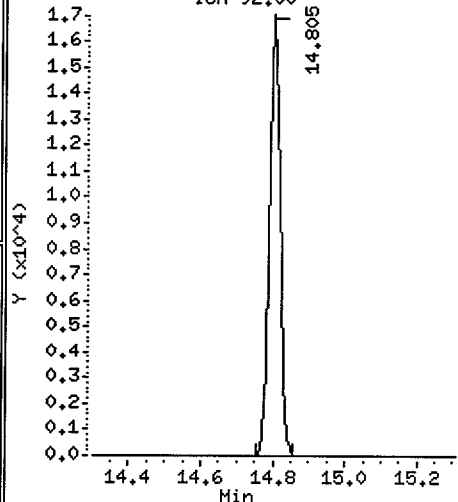
Scan 1217 (14.805 min) of g757g.d (% DIFFERENCE)



Ion 91.00



Ion 92.00



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date: 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

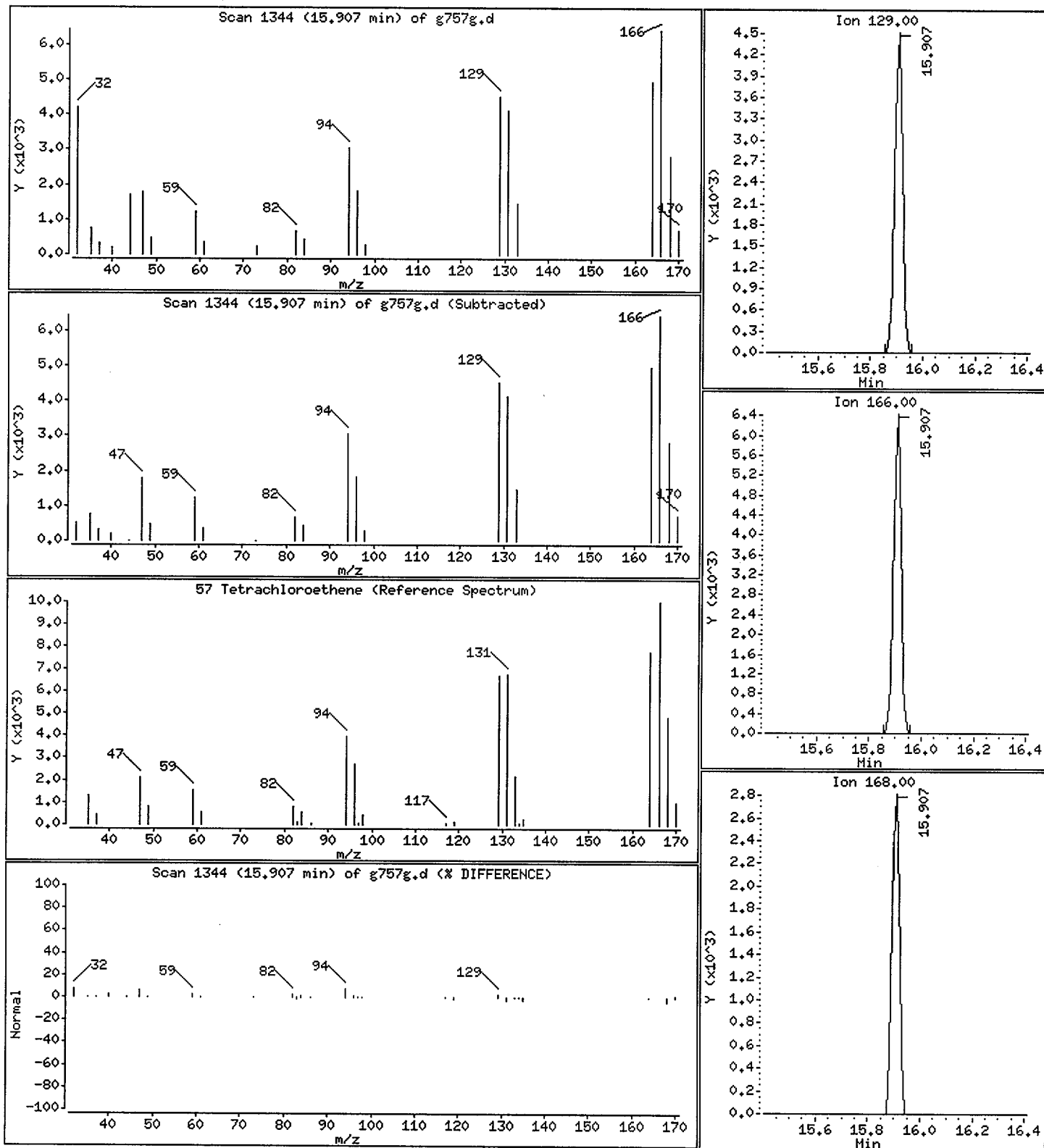
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

57 Tetrachloroethene

Concentration: 0.5436 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

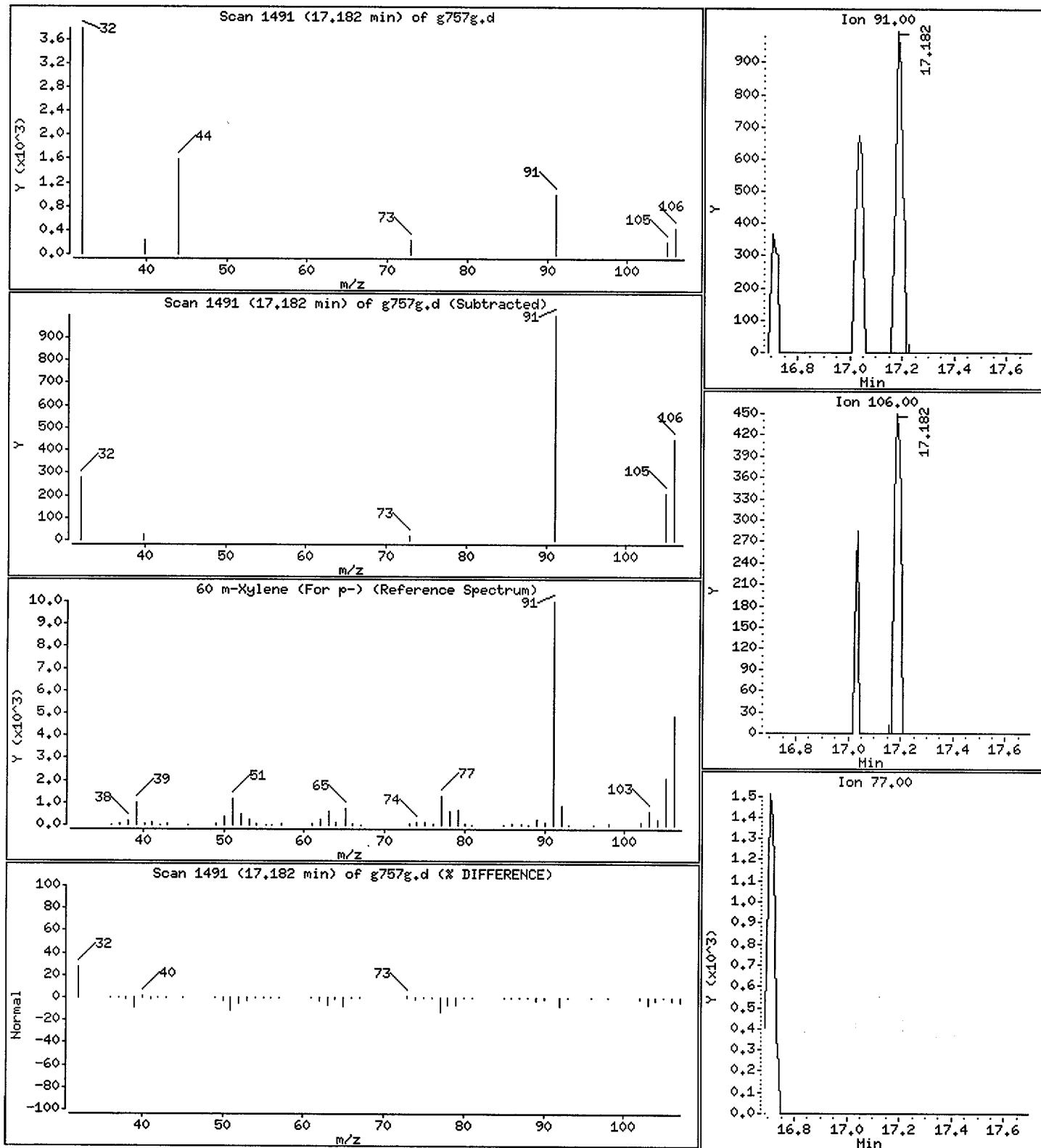
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

60 m-Xylene (For p-)

Concentration: 0.05052 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
 Report Date: 21-Apr-2005 12:26

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/g757g.d
 Lab Smp Id: G757G1AA Client Smp ID: SV-05-04
 Inj Date : 21-APR-2005 01:29
 Operator : 7126 Inst ID: mt.i
 Smp Info : G757G1AA,,0,,
 Misc Info : T042005,LA,bridge.sub,,,1225 ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 12:22 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	10.111	290441	10.000

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL (ppb (v/v))	FINAL (ppb (v/v))		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Propane, 2,2-difluoro-							
4.662	225909	7.77813738	7.778	43	NIST02.1	1036	1
Isobutane							
4.749	58296	2.00715464	2.007	86	NIST02.1	226	1
Acetaldehyde							
4.914	298559	10.2795060	10.28	78	NIST02.1	69	1
Butane, 2-methyl-							
6.025	36342	1.25126962	1.251	87	NIST02.1	700	1
1-Pentene							
6.346	31731	1.09251104	1.092	90	NIST02.1	539	1

Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d
Report Date: 21-Apr-2005 12:26

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY	LIB ENTRY	
Acetone							
6.406	595004	20.4862261	20.49	50	NIST02.1	206	1
Carbon disulfide							
7.621	53952	1.85758898	1.858	83	NIST02.1	959	1

4/24/05

Data File: /var/chem/gcms/mt,i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt,i

Sample Info: G757G1AA,,0,,

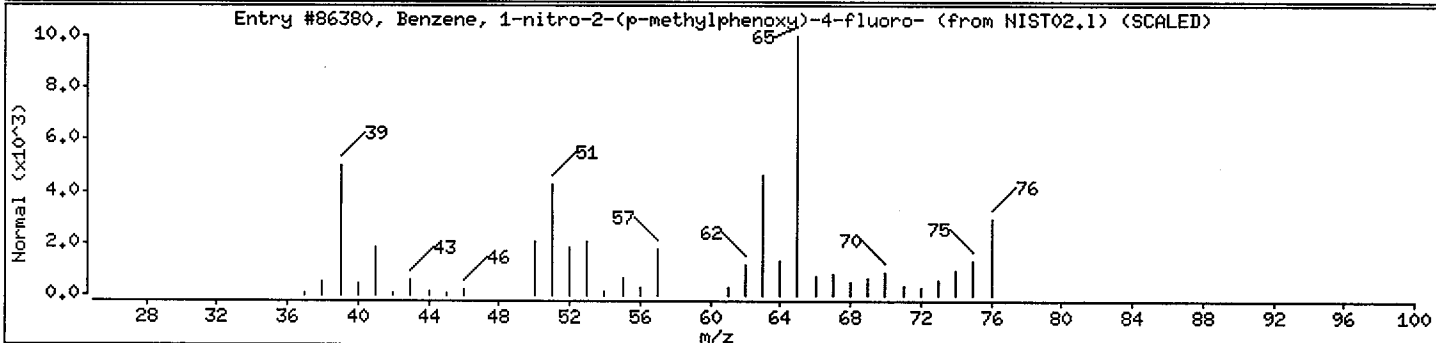
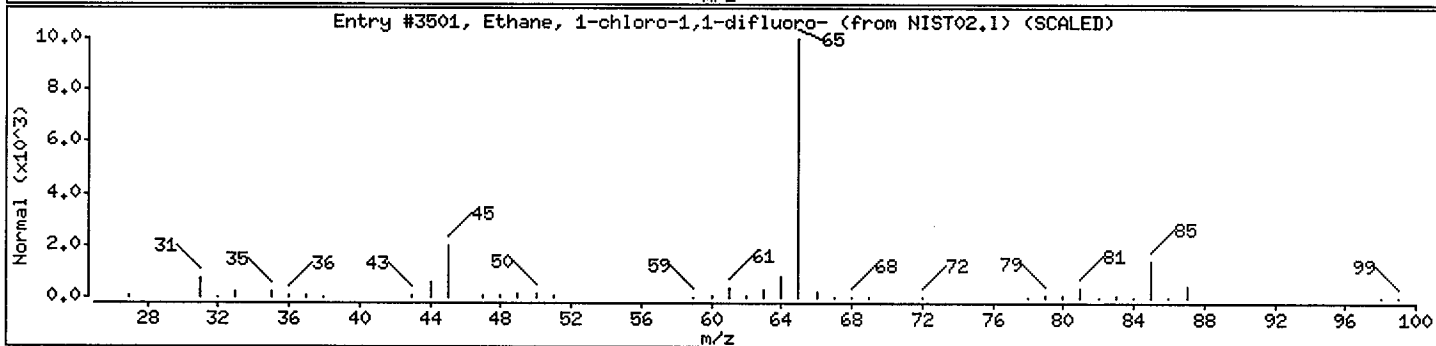
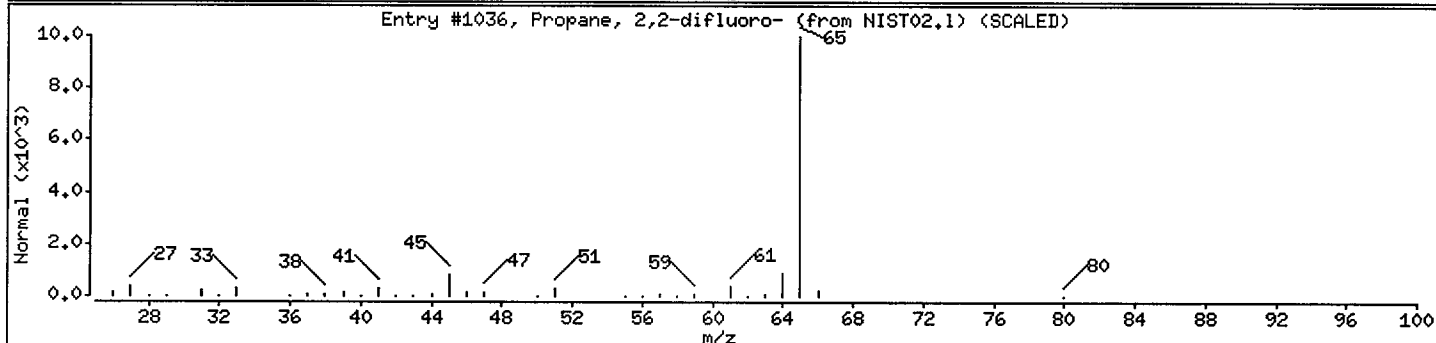
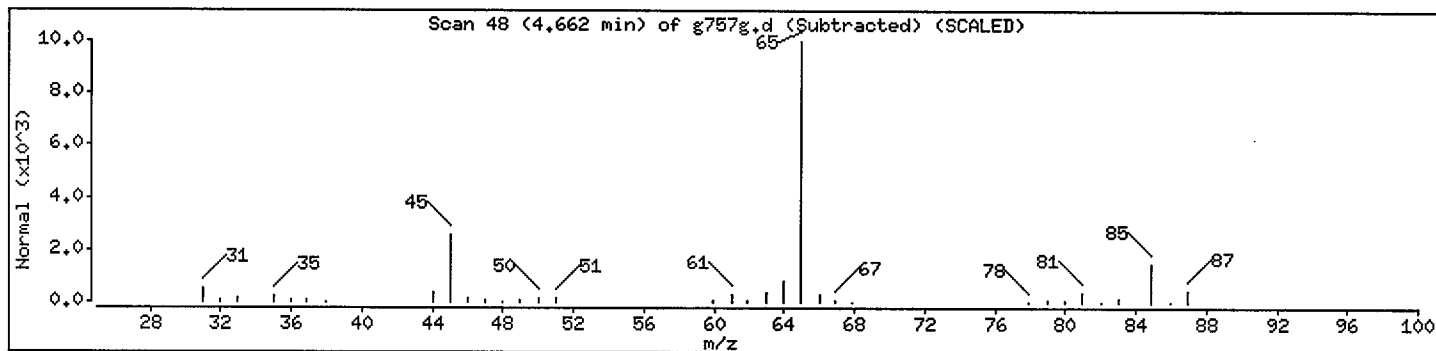
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 2,2-difluoro-	420-45-1	NIST02.1	1036	43	C3H6F2	80
Ethane, 1-chloro-1,1-difluoro-	75-68-3	NIST02.1	3501	38	C2H3ClF2	100
Benzene, 1-nitro-2-(p-methylphenoxy)-4-f	28987-57-7	NIST02.1	86380	1	C13H10FNO3	247



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

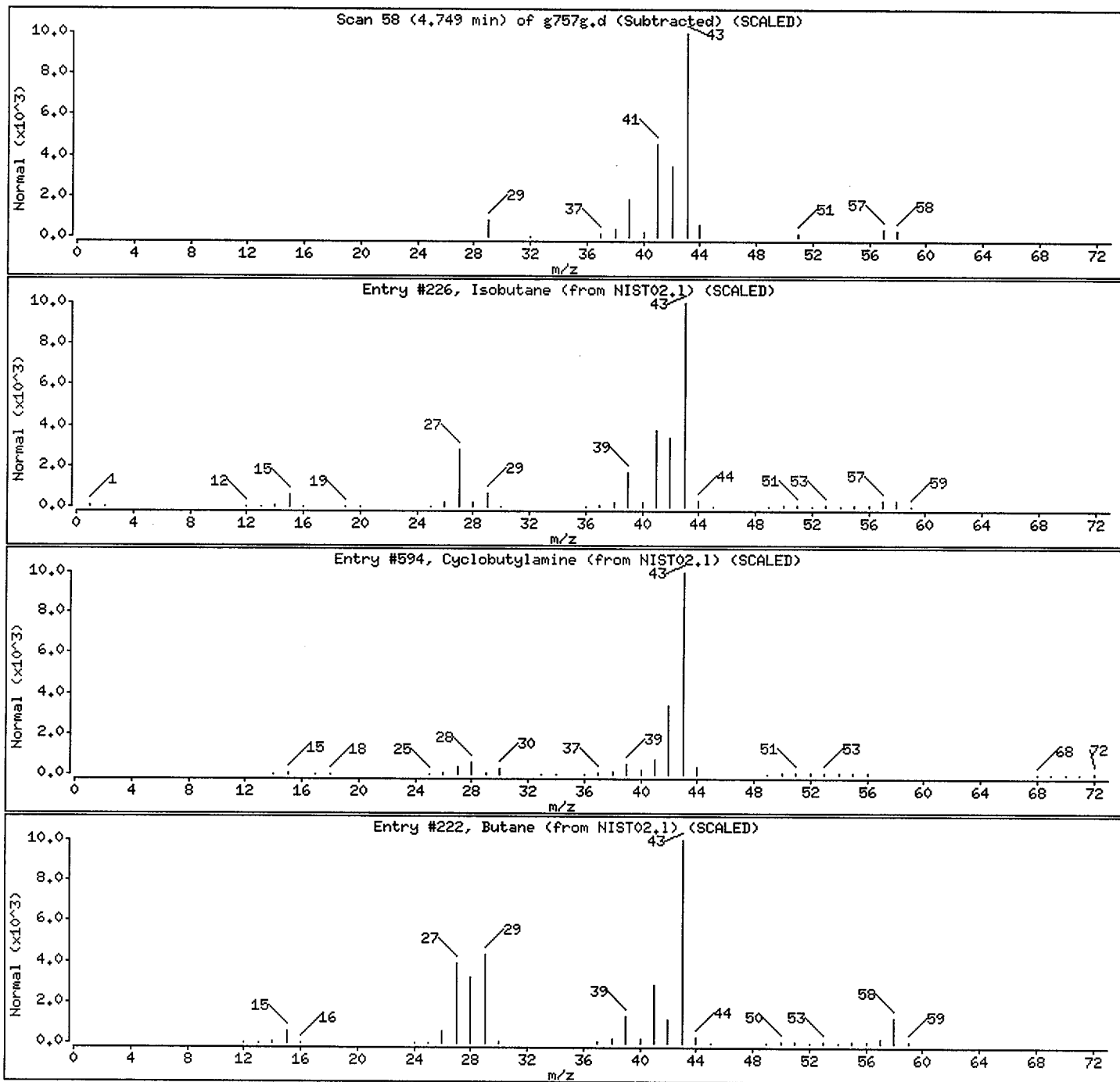
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST02.1	226	86	C4H10	58
Cyclobutylamine	2516-34-9	NIST02.1	594	4	C4H9N	71
Butane	106-97-8	NIST02.1	222	4	C4H10	58



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

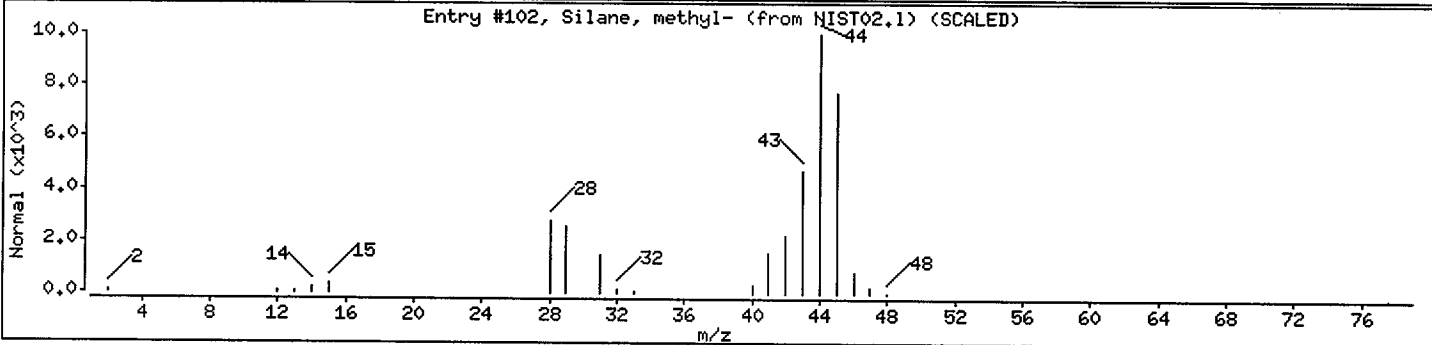
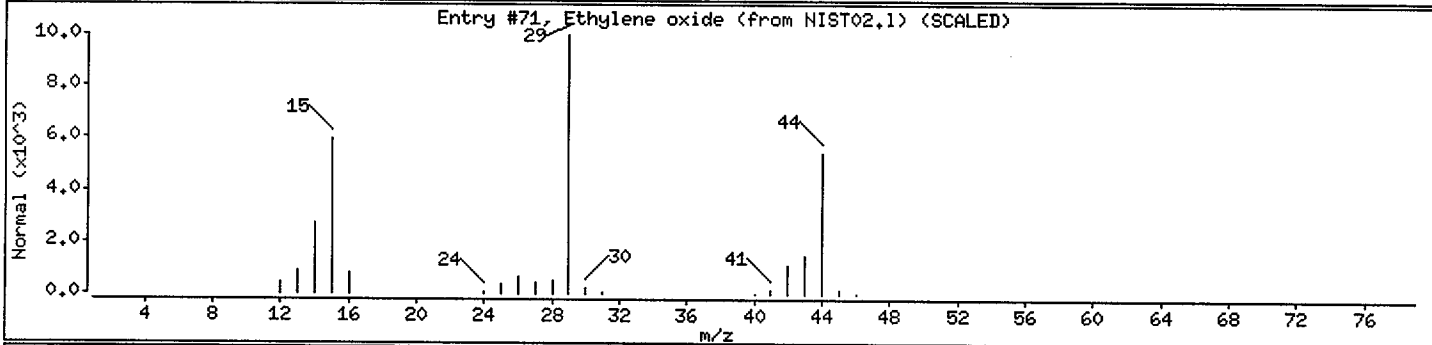
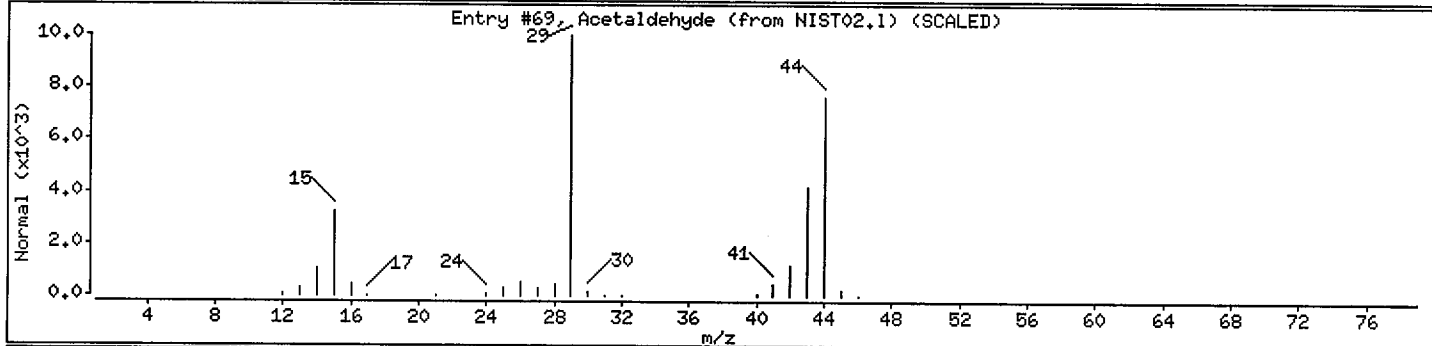
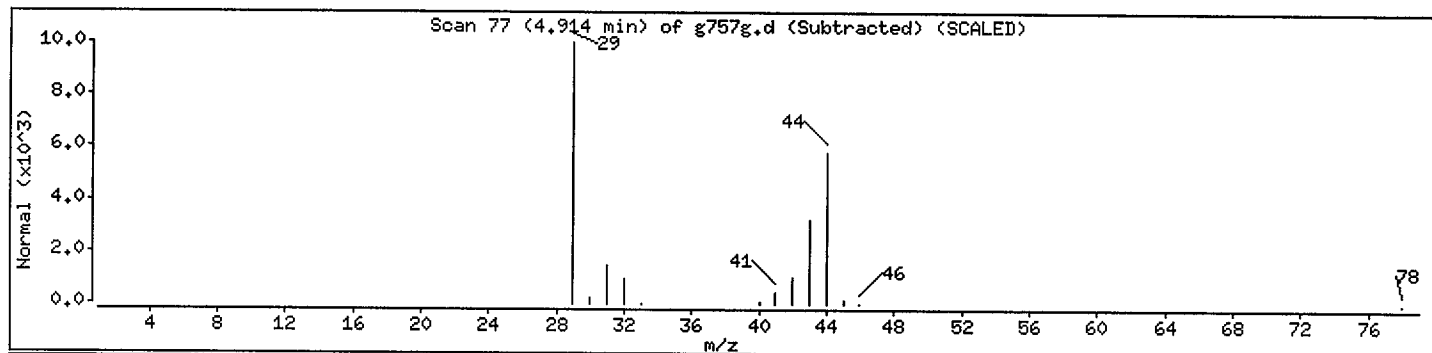
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetaldehyde	75-07-0	NIST02.1	69	78	C ₂ H ₄ O	44
Ethylene oxide	75-21-8	NIST02.1	71	64	C ₂ H ₄ O	44
Silane, methyl-	992-94-9	NIST02.1	102	9	CH ₆ Si	46



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

Volume Injected (uL): 500.0

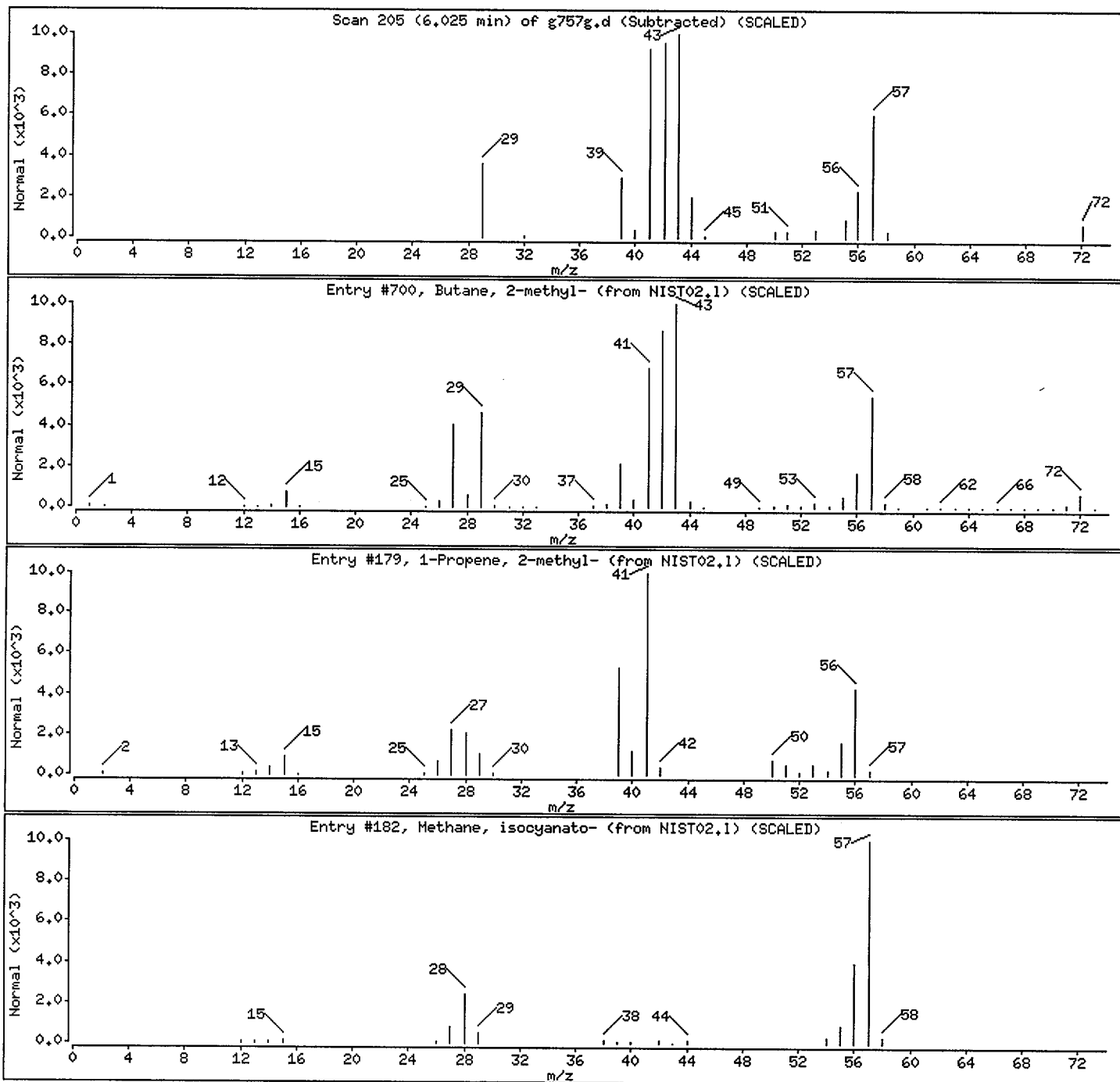
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match

	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST02.1	700	87	C5H12	72
1-Propene, 2-methyl-	115-11-7	NIST02.1	179	9	C4H8	56
Methane, isocyanato-	624-83-9	NIST02.1	182	9	C2H3NO	57



Data File: /var/chem/gcms/mt,i/T042005,b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt,i

Sample Info: G757G1AA,,0,,

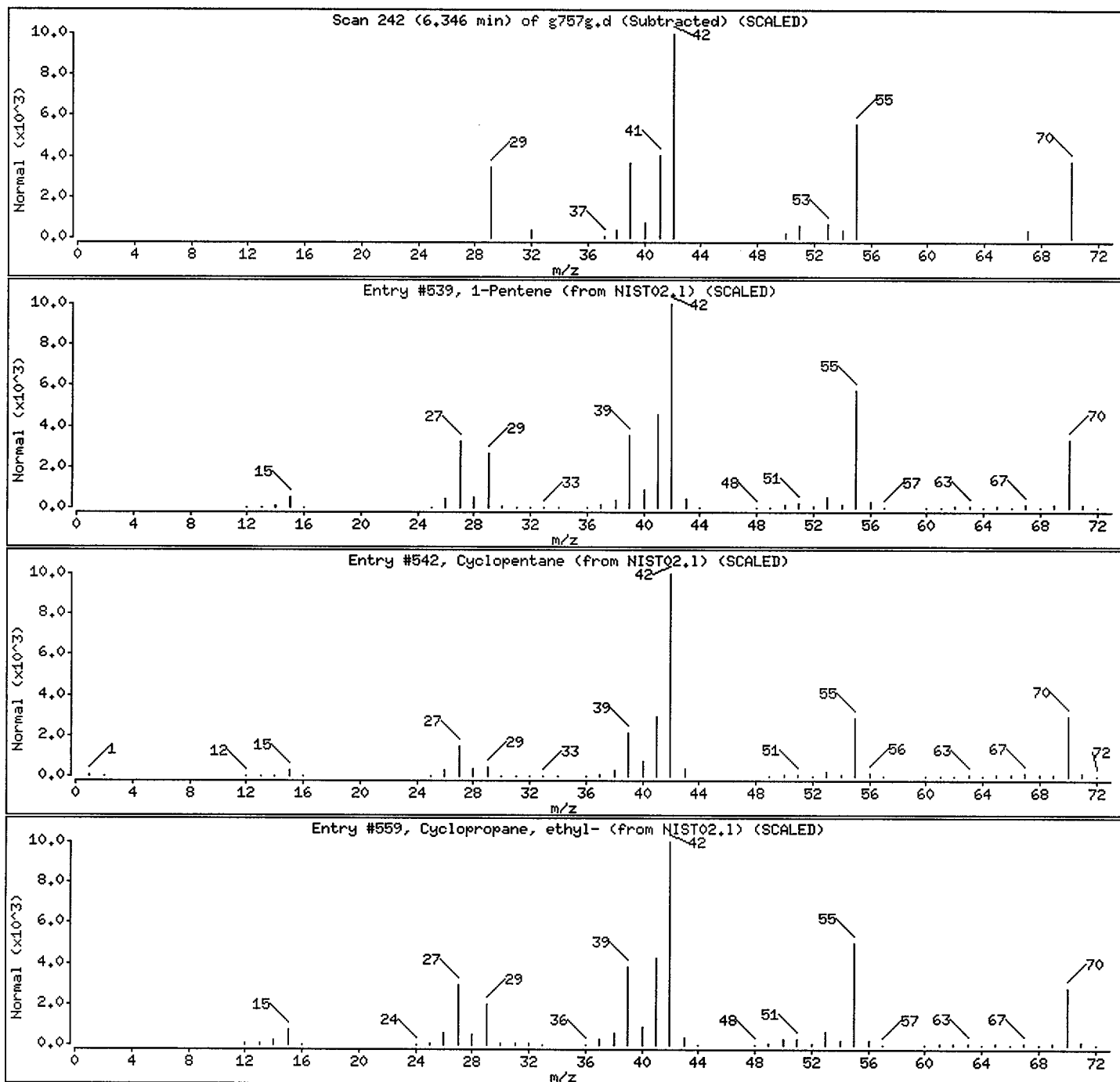
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentene	109-67-1	NIST02.1	539	90	C5H10	70
Cyclopentane	287-92-3	NIST02.1	542	86	C5H10	70
Cyclopropane, ethyl-	1191-96-4	NIST02.1	559	86	C5H10	70



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date : 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

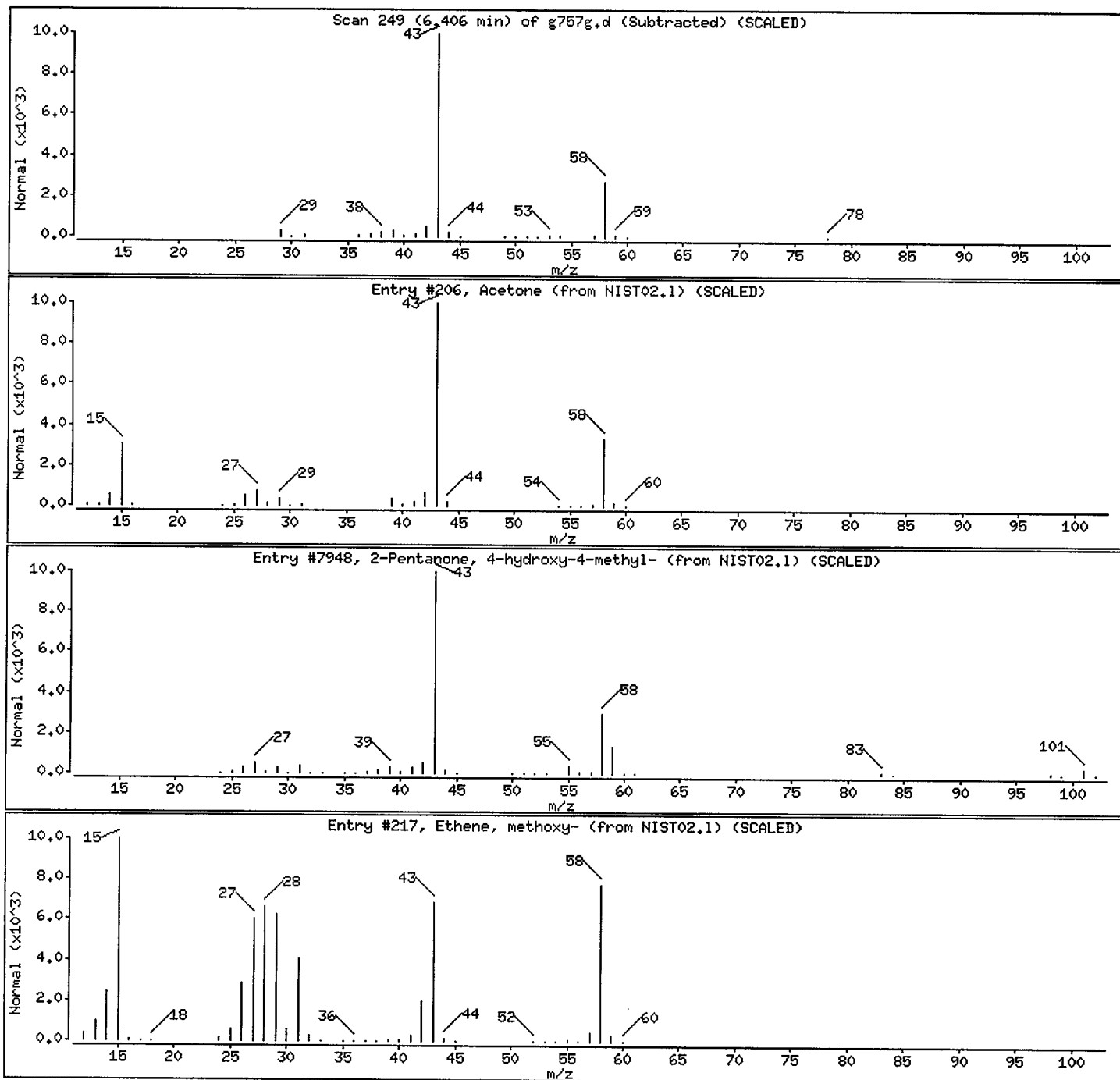
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST02.1	206	50	C ₃ H ₆ O	58
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST02.1	7948	9	C ₆ H ₁₂ O ₂	116
Ethene, methoxy-	107-25-5	NIST02.1	217	5	C ₃ H ₆ O	58



Data File: /var/chem/gcms/mt.i/T042005.b/g757g.d

Date: 21-APR-2005 01:29

Client ID: SV-05-04

Instrument: mt.i

Sample Info: G757G1AA,,0,,

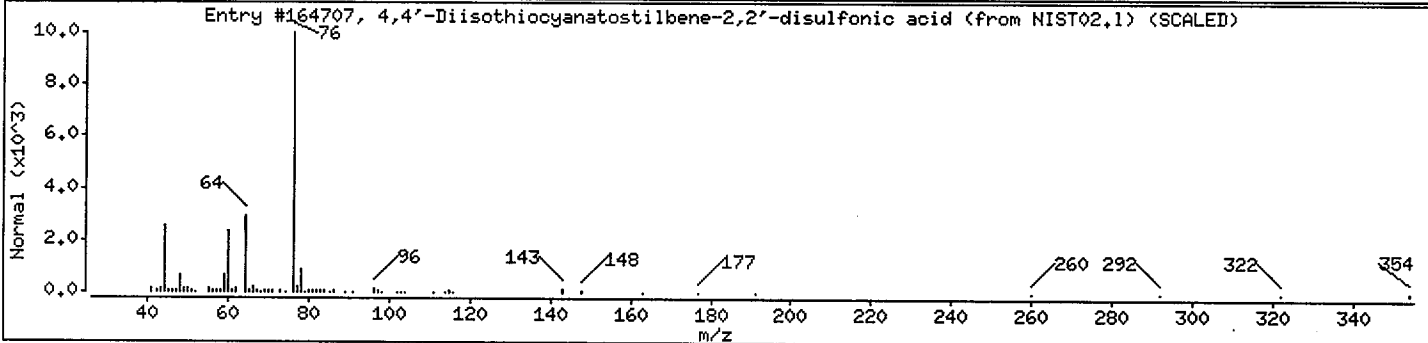
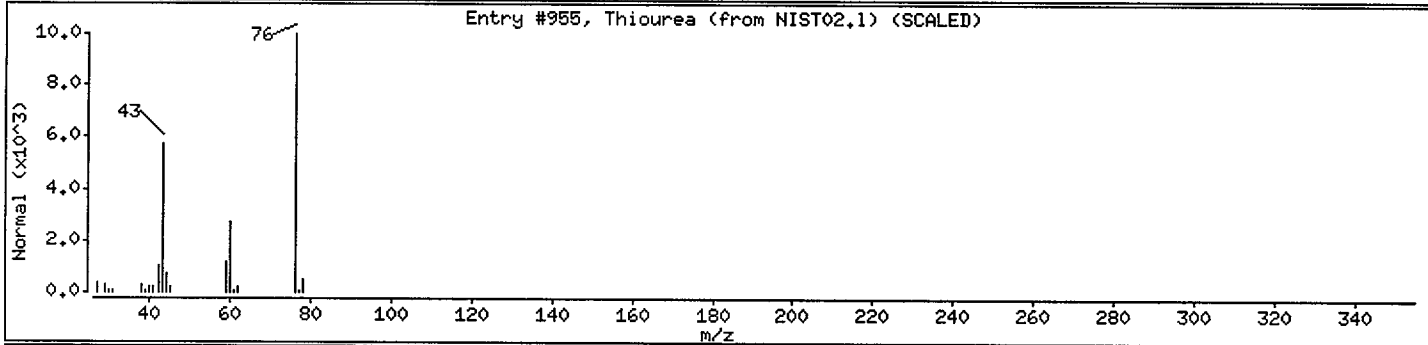
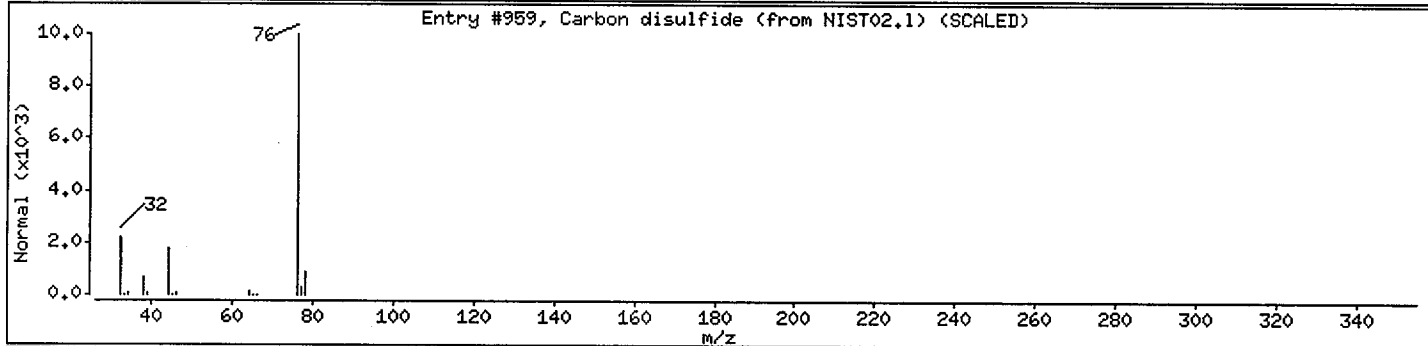
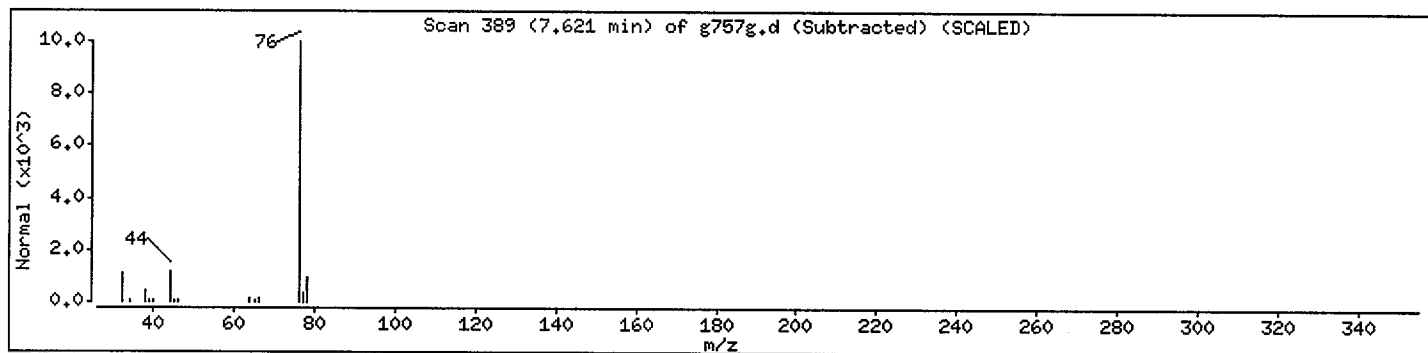
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon disulfide	75-15-0	NIST02.1	959	83	CS ₂	76
Thiourea	62-56-6	NIST02.1	955	9	CH ₄ N ₂ S	76
4,4'-Diisothiocyanatostilbene-2,2'-disul	53005-05-3	NIST02.1	164707	4	C ₁₆ H ₁₀ N ₂ O ₆ S ₄	454



URS Corporation
Client Sample ID: SV-05-01
GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date...: 4/21/05

Prep Batch #.....: 5111152

Dilution Factor..: 1.34

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	0.82	0.27	3.3	1.1
n-Hexane	0.61	0.27	2.2	0.94
Cumene	ND	0.27	ND	1.3
Naphthalene	ND	0.67	ND	3.5
n-Octane	0.63	0.27	3.0	1.3
Pentane	1.1	0.67	3.3	2.0
Methyl tert-butyl ether	ND	0.67	ND	2.4
n-Decane	1.0	0.27	6.0	1.6
n-Dodecane	13	1.3	89	9.3
n-Undecane	4.3	0.27	28	1.7
Nonane	0.55	0.27	2.9	1.4
n-Butane	2.8	0.27	6.6	0.64
Dichlorodifluoromethane	0.98	0.27	4.8	1.3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.27	ND	1.9
Chloromethane	ND	0.67	ND	1.4
Vinyl chloride	ND	0.27	ND	0.69
Bromomethane	ND	0.27	ND	1.0
Chloroethane	ND	0.27	ND	0.71
Trichlorofluoromethane	0.78	0.27	4.4	1.5
1,1-Dichloroethene	ND	0.27	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.27	ND	2.1
Methylene chloride	ND	0.67	ND	2.3
1,1-Dichloroethane	ND	0.27	ND	1.1
cis-1,2-Dichloroethene	ND	0.27	ND	1.1
Chloroform	ND	0.27	ND	1.3
1,1,1-Trichloroethane	0.59	0.27	3.2	1.5
Carbon tetrachloride	ND	0.27	ND	1.7
Benzene	1.8	0.27	5.7	0.86
1,2-Dichloroethane	ND	0.27	ND	1.1
Trichloroethene	ND	0.27	ND	1.4
1,2-Dichloropropane	ND	0.27	ND	1.2
cis-1,3-Dichloropropene	ND	0.27	ND	1.2
Toluene	4.9	0.27	19	1.0
trans-1,3-Dichloropropene	ND	0.27	ND	1.2
1,1,2-Trichloroethane	ND	0.27	ND	1.5
Tetrachloroethene	0.76	0.27	5.2	1.8

URS Corporation
Client Sample ID: SV-05-01
GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
1,2-Dibromoethane (EDB)	ND	0.27	ND	2.1
Chlorobenzene	ND	0.27	ND	1.2
Ethylbenzene	0.48	0.27	2.1	1.2
m-Xylene & p-Xylene	1.8	0.27	7.7	1.2
o-Xylene	0.50	0.27	2.2	1.2
Styrene	ND	0.27	ND	1.1
1,1,2,2-Tetrachloroethane	ND	0.27	ND	1.8
1,3,5-Trimethylbenzene	ND	0.27	ND	1.3
1,2,4-Trimethylbenzene	0.43	0.27	2.1	1.3
1,3-Dichlorobenzene	ND	0.27	ND	1.6
1,4-Dichlorobenzene	ND	0.27	ND	1.6
1,2-Dichlorobenzene	ND	0.27	ND	1.6
1,2,4-Trichlorobenzene	ND	1.3	ND	9.9
Hexachlorobutadiene	ND	1.3	ND	14

TENTATIVELY IDENTIFIED COMPOUNDS

<u></u>	<u>RESULT</u>	<u>UNITS</u>
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	2.5	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-01
GC/MS Volatiles

Lot-Sample # H5D120102 - 003

Work Order # G757H1AA

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	111	70 - 130
Toluene-d8	93	70 - 130
4-Bromofluorobenzene	112	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
Report Date: 21-Apr-2005 10:51

STL Knoxville

Modified Method TO-14/TO-15
Data file : /var/chem/gcms/mt.i/T042005.b/g757h.d
Lab Smp Id: G757H1AA Client Smp ID: SV-05-01
Inj Date : 21-APR-2005 08:41
Operator : 7126 Inst ID: mt.i
Smp Info : G757H1AA,,0,,
Misc Info : T042005,LA,bridge.sub,,,924 ML
Comment :
Method : /var/chem/gcms/mt.i/T042005.b/LA.m
Meth Date : 21-Apr-2005 10:17 tajh Quant Type: ISTD
Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
Als bottle: 1
Dil Factor: 1.34000
Integrator: HP RTE Compound Sublist: bridge.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

✓ 42605

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb (v/v)) (ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.108	10.111	(1.000)	109852	10.0000	
* 2 1,4-Difluorobenzene	114	12.173	12.185	(1.000)	308355	10.0000	
* 3 Chlorobenzene-d5	117	16.702	16.714	(1.000)	299305	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.080	11.092	(0.910)	70032	11.1193	11.12
\$ 5 Toluene-d8	98	14.689	14.701	(0.879)	262345	9.29498	9.295
\$ 6 4-Bromofluorobenzene	95	18.272	18.284	(1.094)	231018	11.2427	11.24
8 Dichlorodifluoromethane	85	4.477	4.481	(0.443)	35389	0.72941	0.9774
14 n-Butane	43	5.032	5.036	(0.498)	66444	2.08055	2.788
17 Trichlorofluoromethane	101	6.273	6.268	(0.621)	25458	0.58169	0.7795
21 Pentane	57	6.525	6.528	(0.645)	4175	0.83088	1.113
23 1,1-Dichloroethene	96	7.063	7.057	(0.699)	1020	0.05750	0.07705
25 1,1,2-Trichlorotrifluoroethane	101	7.271	7.266	(0.719)	3034	0.07937	0.1064
26 Methylene Chloride	84	7.436	7.430	(0.736)	6096	0.35805	0.4798
34 Hexane	56	9.362	9.374	(0.926)	6567	0.45681	0.6121
36 Chloroform	83	10.117	10.120	(1.001)	1646	0.04820	0.06458
37 1,1,1-Trichloroethane	97	11.132	11.135	(1.101)	13214	0.44318	0.5939
39 Benzene	78	11.678	11.690	(0.959)	44092	1.34289	1.799
43 Heptane	43	12.737	12.740	(1.046)	15611	0.61004	0.8174
51 Toluene	91	14.802	14.805	(0.886)	132280	3.68605	4.939
54 Octane	85	15.452	15.456	(0.925)	5951	0.47174	0.6321
57 Tetrachloroethene	129	15.904	15.907	(0.952)	8792	0.57016	0.7640

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
 Report Date: 21-Apr-2005 10:51

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ppb (v/v))	(ppb (v/v))	
59 Ethylbenzene	91	17.031	17.035	(1.020)	15535	0.35898	0.4810	
60 m-Xylene (For p-)	91	17.188	17.191	(1.029)	42969	1.31856	1.767	
62 Nonane	57	17.578	17.590	(1.052)	10592	0.41412	0.5549	
64 o-Xylene	91	17.699	17.712	(1.060)	12241	0.37243	0.4990	
70 1,3,5-Trimethylbenzene	120	18.949	18.952	(1.135)	1716	0.10061	0.1348	
72 Decane	57	19.200	19.213	(1.150)	23009	0.76808	1.029	
73 1,2,4-Trimethylbenzene	105	19.357	19.360	(1.159)	11453	0.31912	0.4276	
74 1,3-Dichlorobenzene	146	19.695	19.620	(1.179)	2664	0.09817	~~0.1315~~	
76 1,4-Dichlorobenzene	146	19.695	19.698	(1.179)	2663	0.09755	0.1307	
78 Undecane	57	20.450	20.462	(1.224)	97184	3.23666	4.337	
79 Dodecane	57	21.560	21.564	(1.291)	223934	9.52504	12.76	
81 Napthalene	128	21.959	21.963	(1.315)	4531	0.12505	0.1676	

4/24/05 H

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
 Report Date: 21-Apr-2005 10:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i
 Lab File ID: g757h.d
 Lab Smp Id: G757H1AA
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 7126

Calibration Date: 20-APR-2005
 Calibration Time: 11:25
 Client Smp ID: SV-05-01
 Level: LOW
 Sample Type: AIR

Method File: /var/chem/gcms/mt.i/T042005.b/LA.m
 Misc Info: T042005,LA,bridge.sub,,,924 ML

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	139888	83233	196543	109852	-21.47
2 1,4-Difluorobenze	473126	281510	664742	308355	-34.83
3 Chlorobenzene-d5	435347	259031	611663	299305	-31.25

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	10.11	9.78	10.44	10.11	-0.03
2 1,4-Difluorobenze	12.18	11.85	12.51	12.17	-0.10
3 Chlorobenzene-d5	16.71	16.38	17.04	16.70	-0.07

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
 Report Date: 21-Apr-2005 10:51

STL Knoxville

RECOVERY REPORT

Client Name: URS Corporation

Sample Matrix: GAS

Lab Smp Id: G757H1AA

Level: LOW

Data Type: MS DATA

SpikeList File: all.spk

Sublist File: bridge.sub

Method File: /var/chem/gcms/mt.i/T042005.b/LA.m

Misc Info: T042005,LA,bridge.sub,,,924 ML

Client SDG: H5D120102

Fraction: OTHER

Client Smp ID: SV-05-01

Operator: 7126

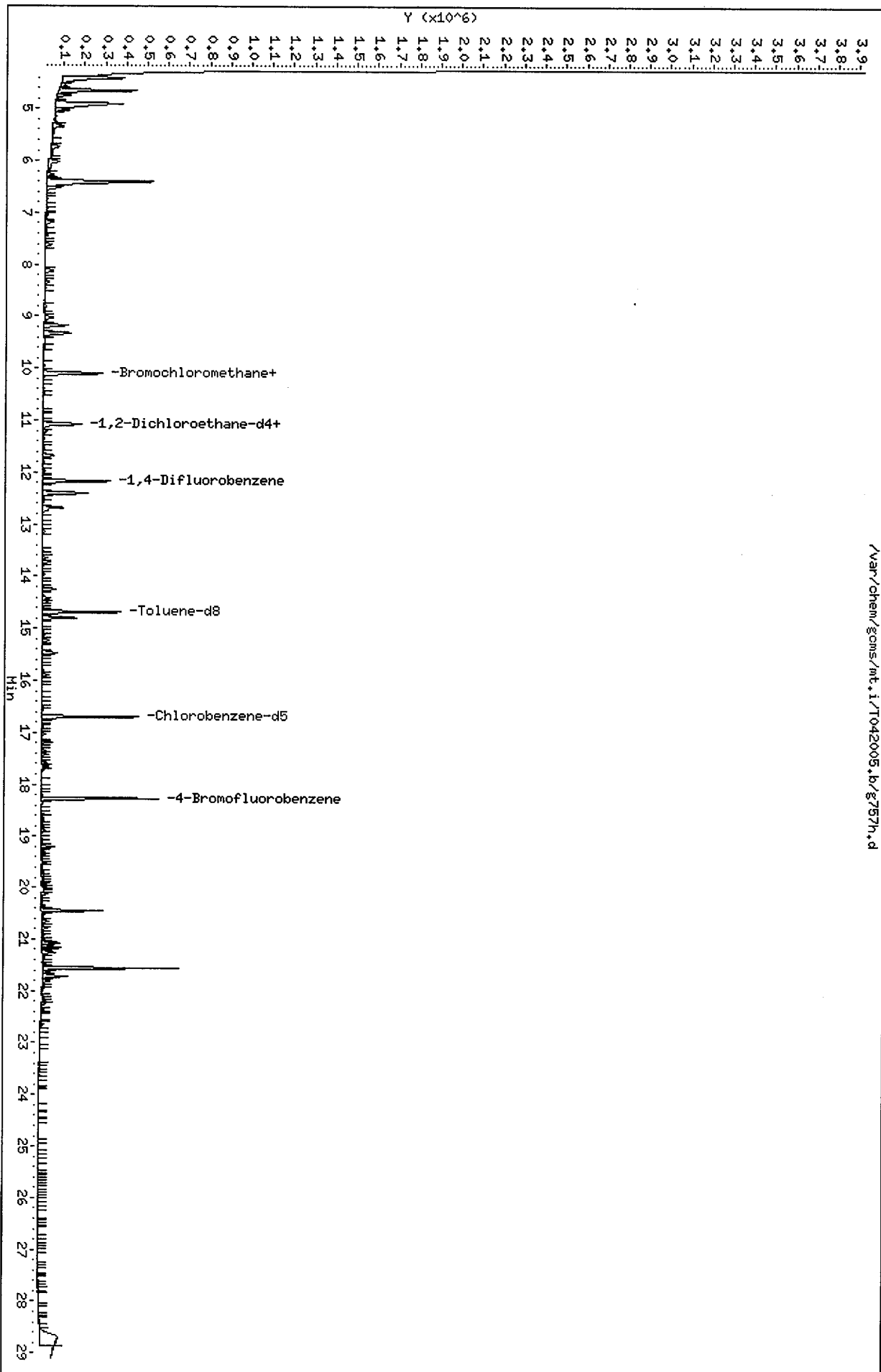
SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	11.12	111.19	70-130
\$ 5 Toluene-d8	10.00	9.295	92.95	70-130
\$ 6 4-Bromofluorobenze	10.00	11.24	112.43	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
Date : 21-APR-2005 08:41
Client ID: SV-05-01
Sample Info: G757H4A0,,
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

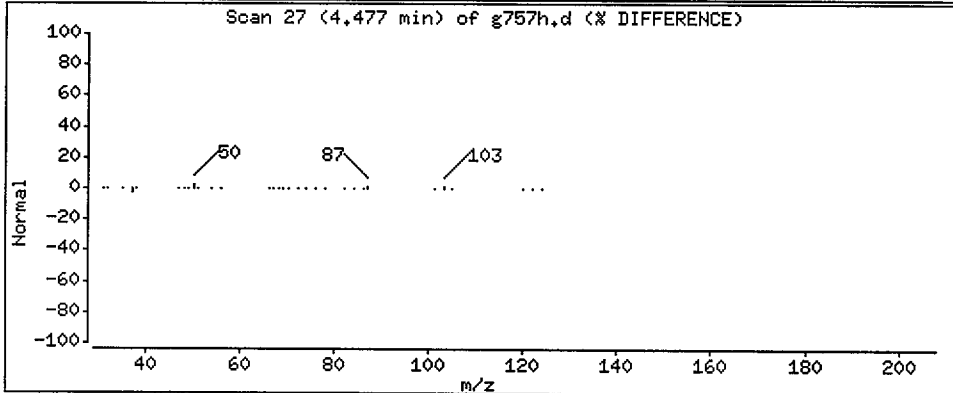
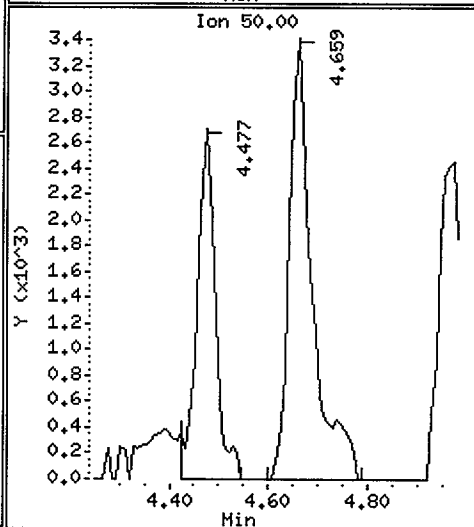
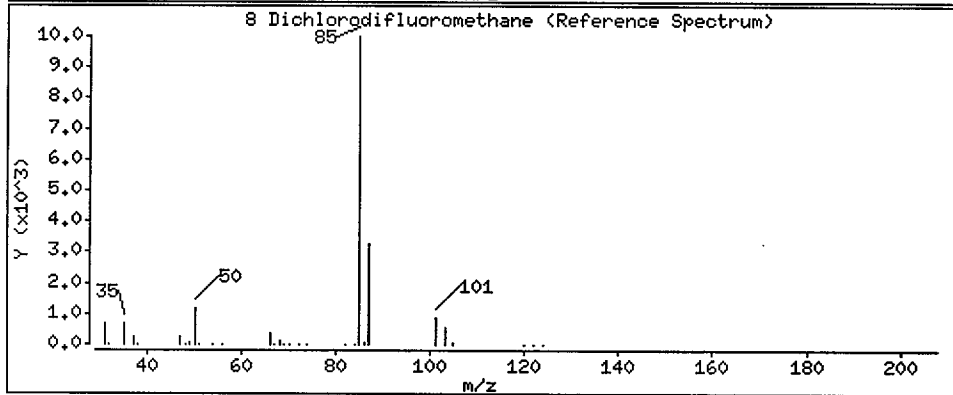
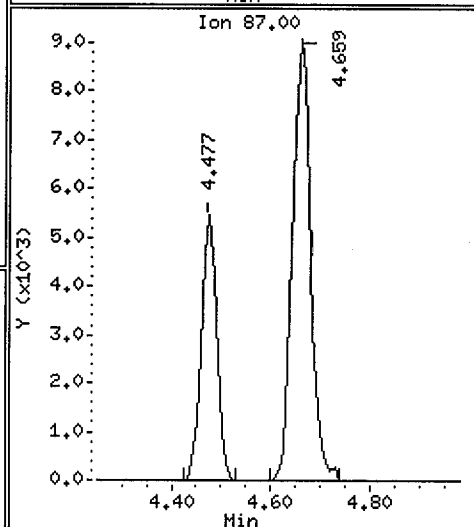
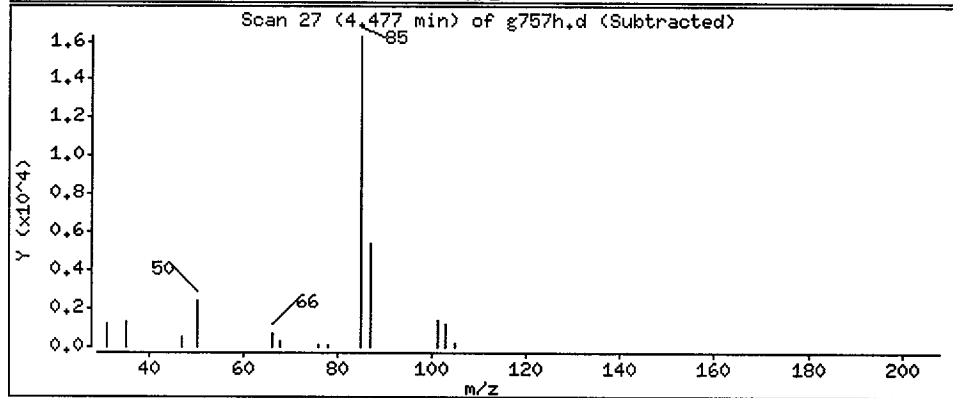
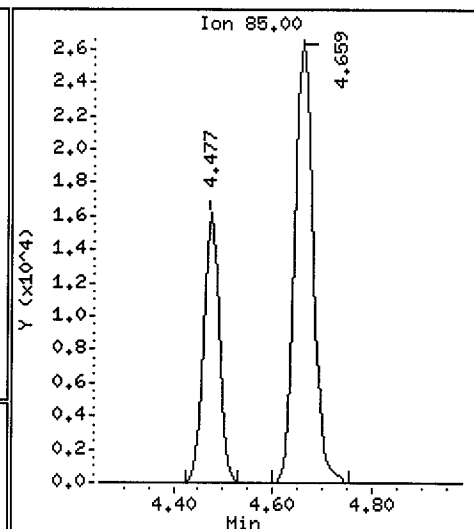
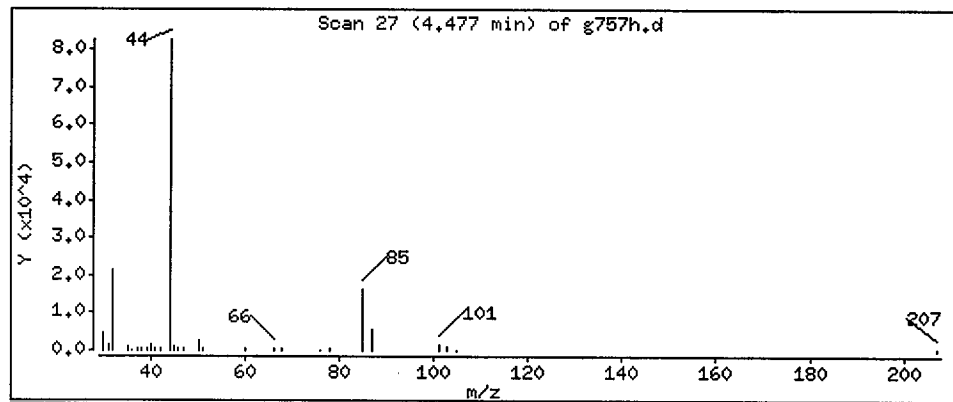
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

8 Dichlorodifluoromethane

Concentration: 0.9774 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

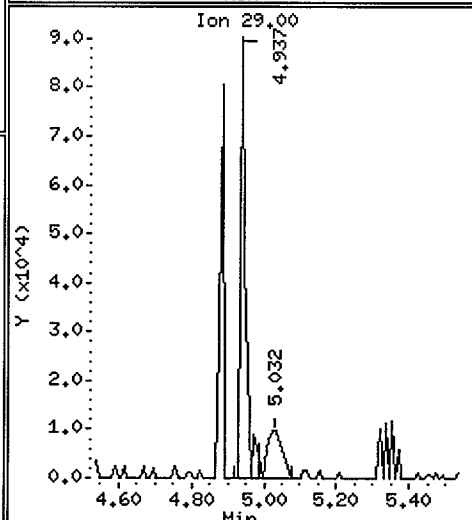
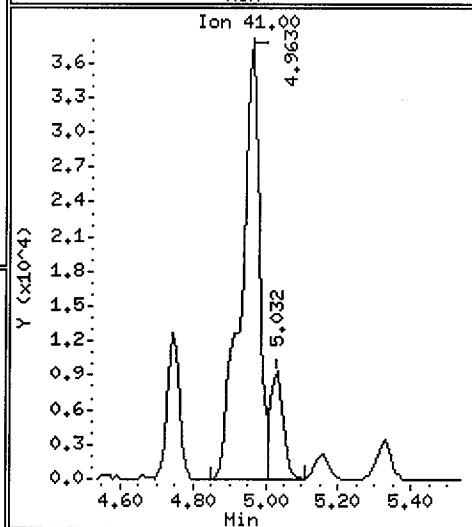
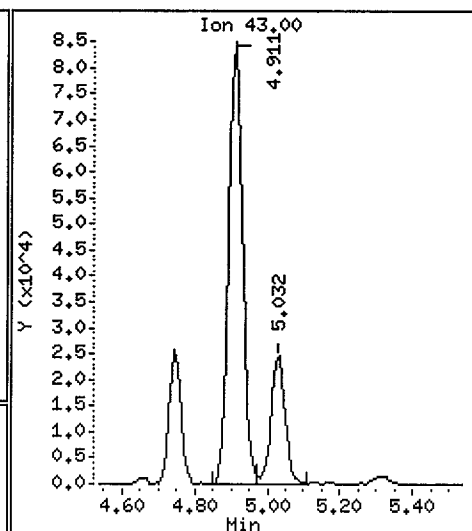
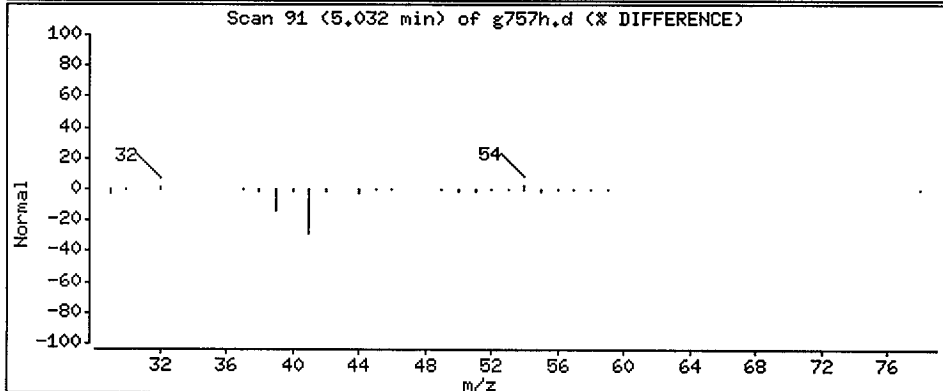
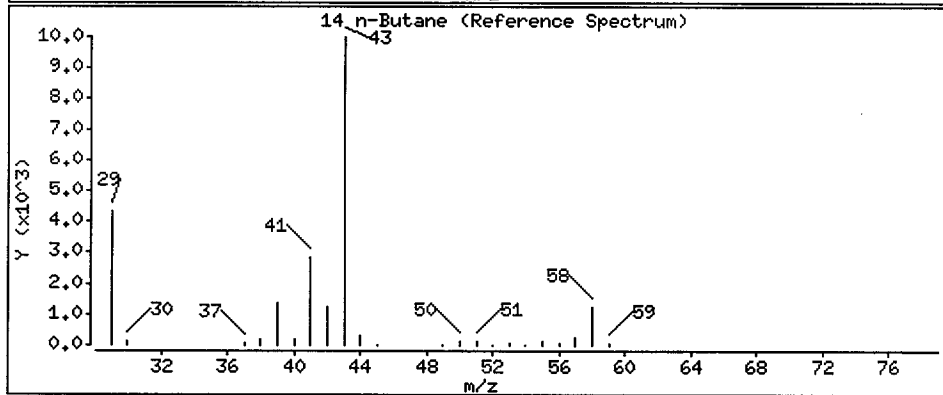
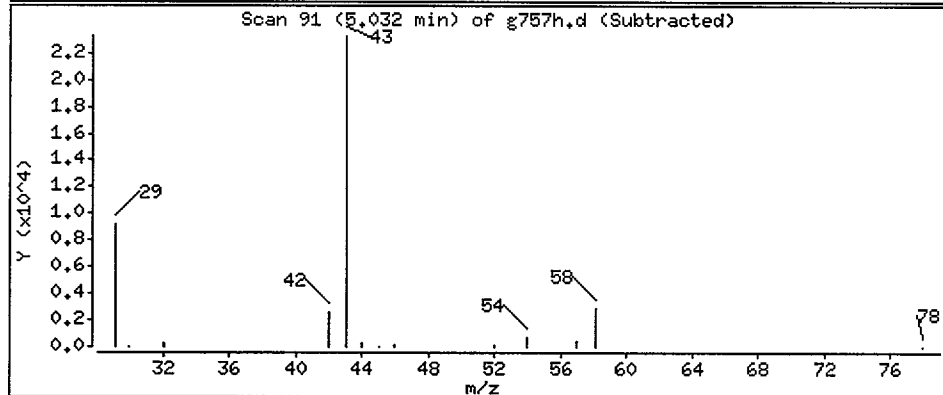
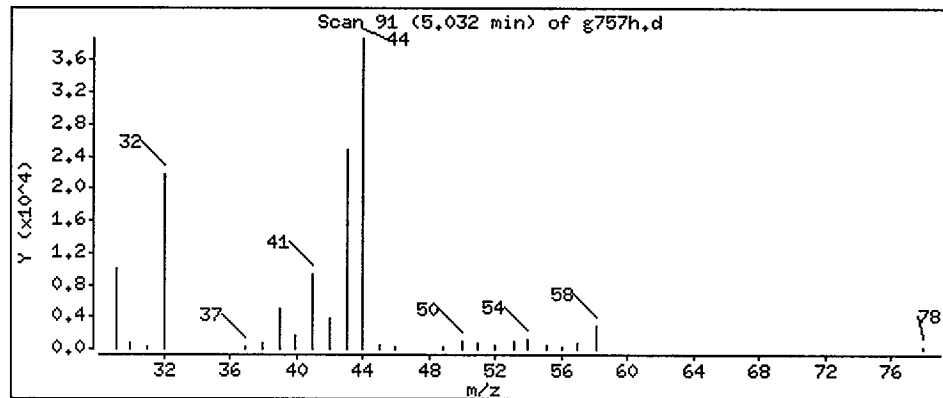
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 2.788 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

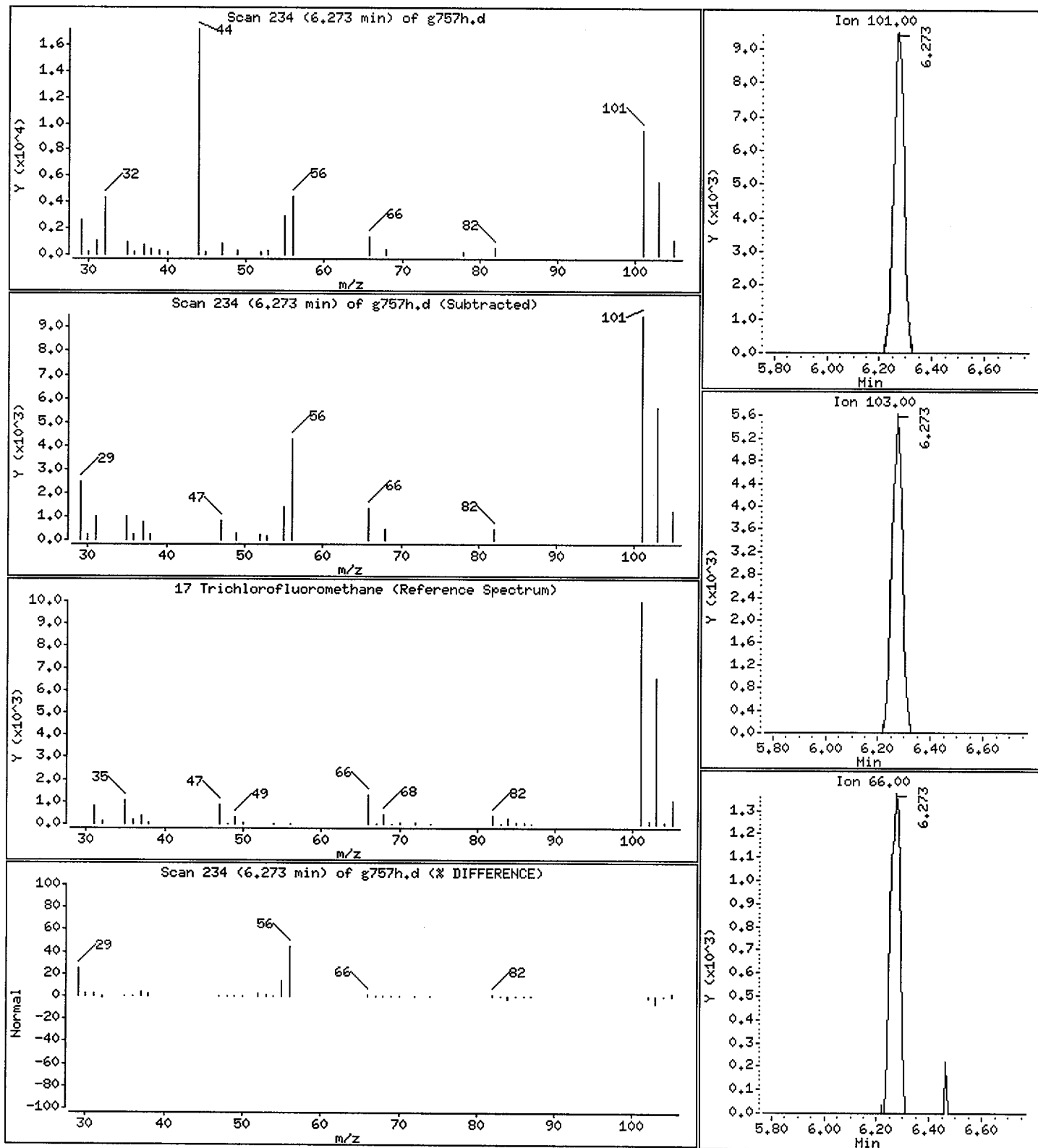
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

17 Trichlorofluoromethane

Concentration: 0.7795 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

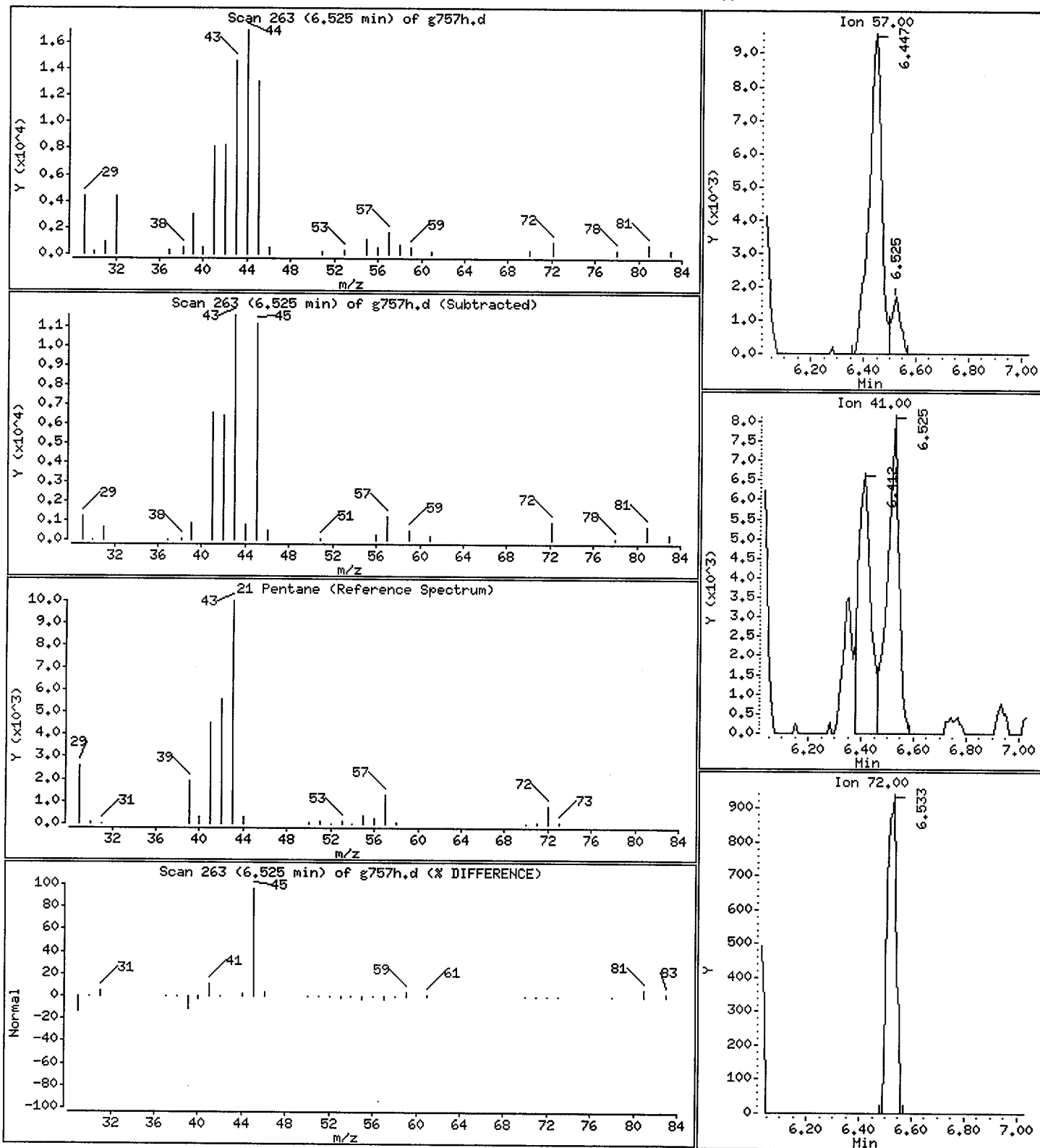
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

21 Pentane

Concentration: 1.113 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

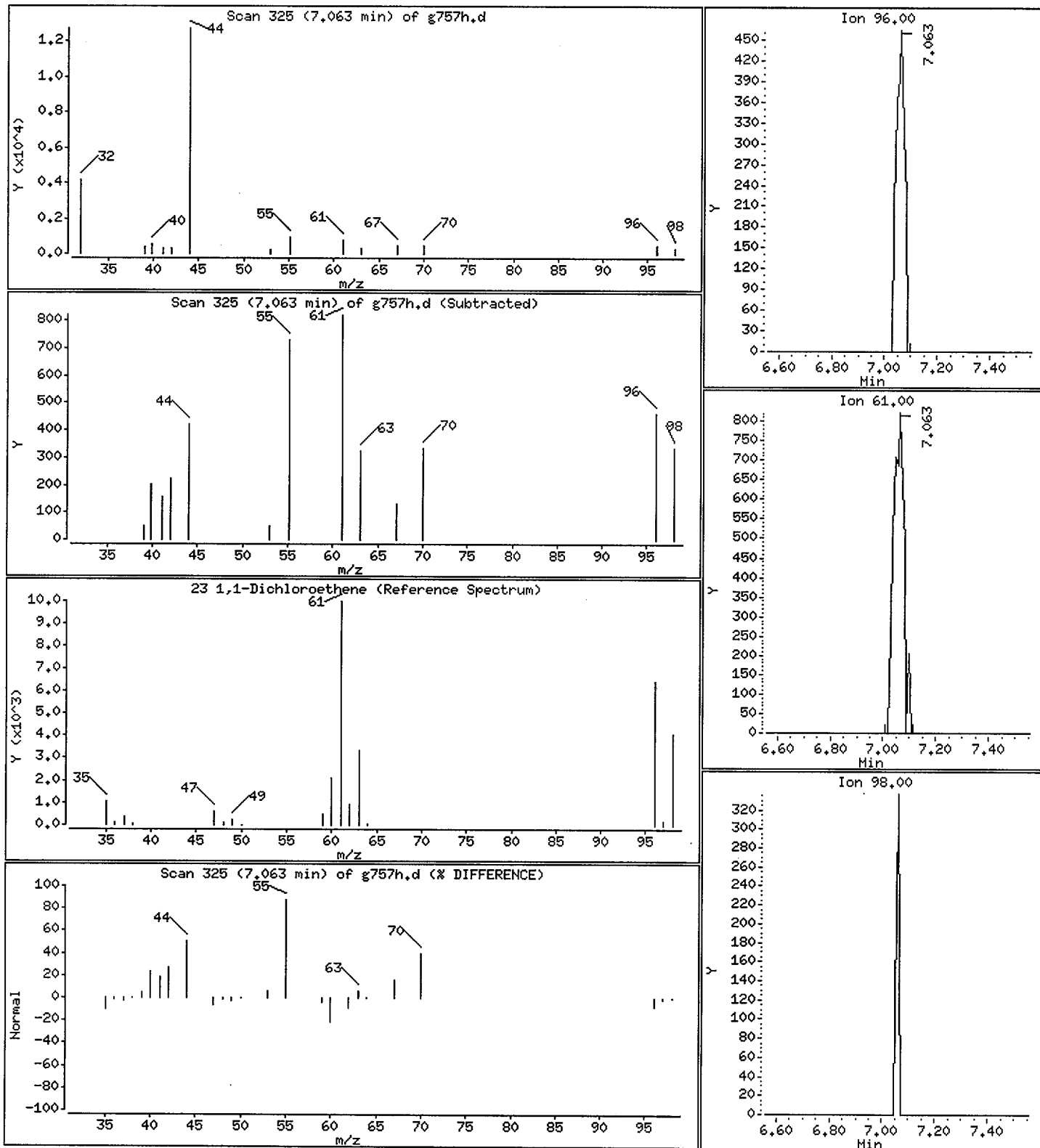
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

23 1,1-Dichloroethene

Concentration: 0.07705 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

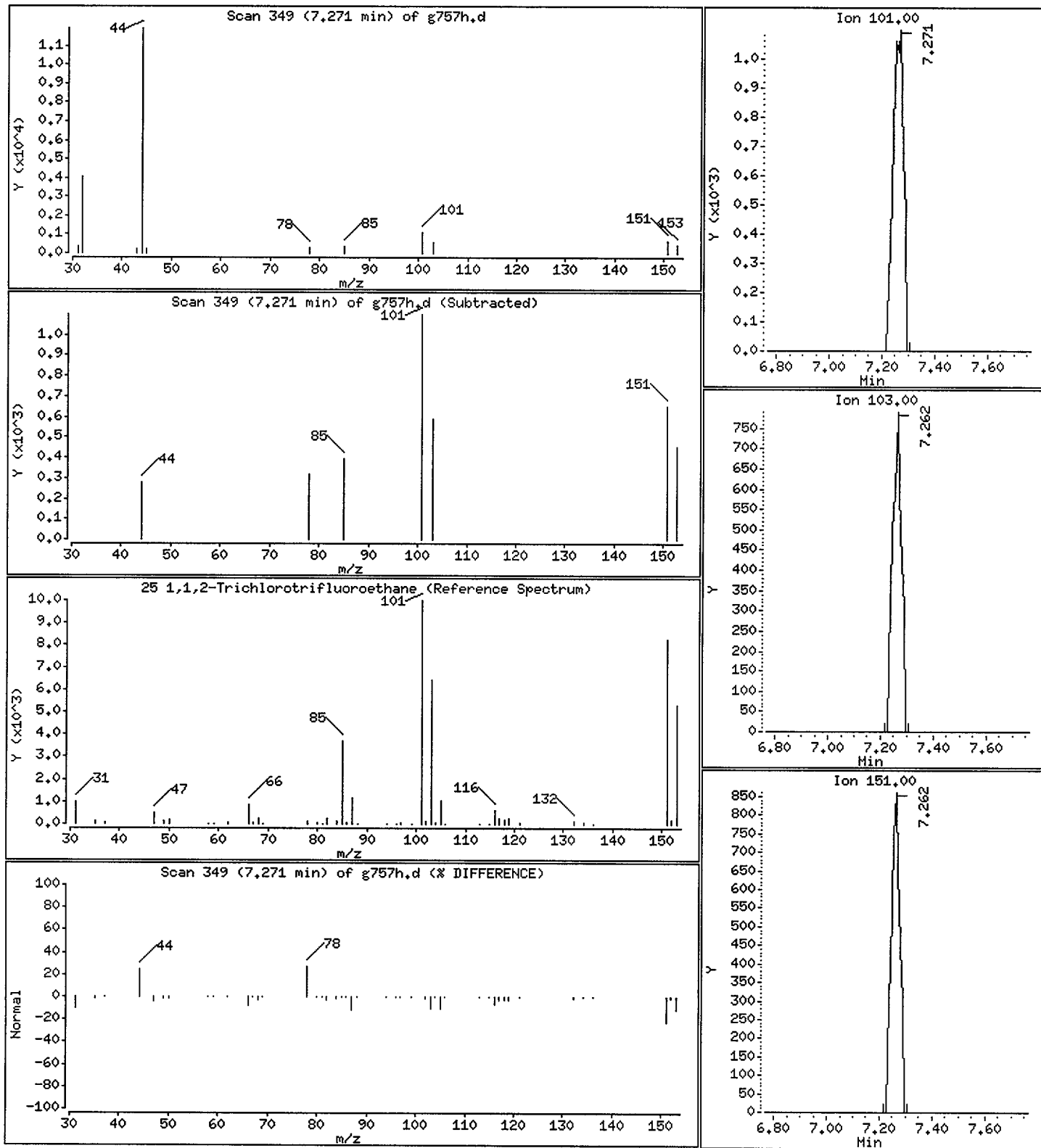
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

25 1,1,2-Trichlorotrifluoroethane

Concentration: 0.1064 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

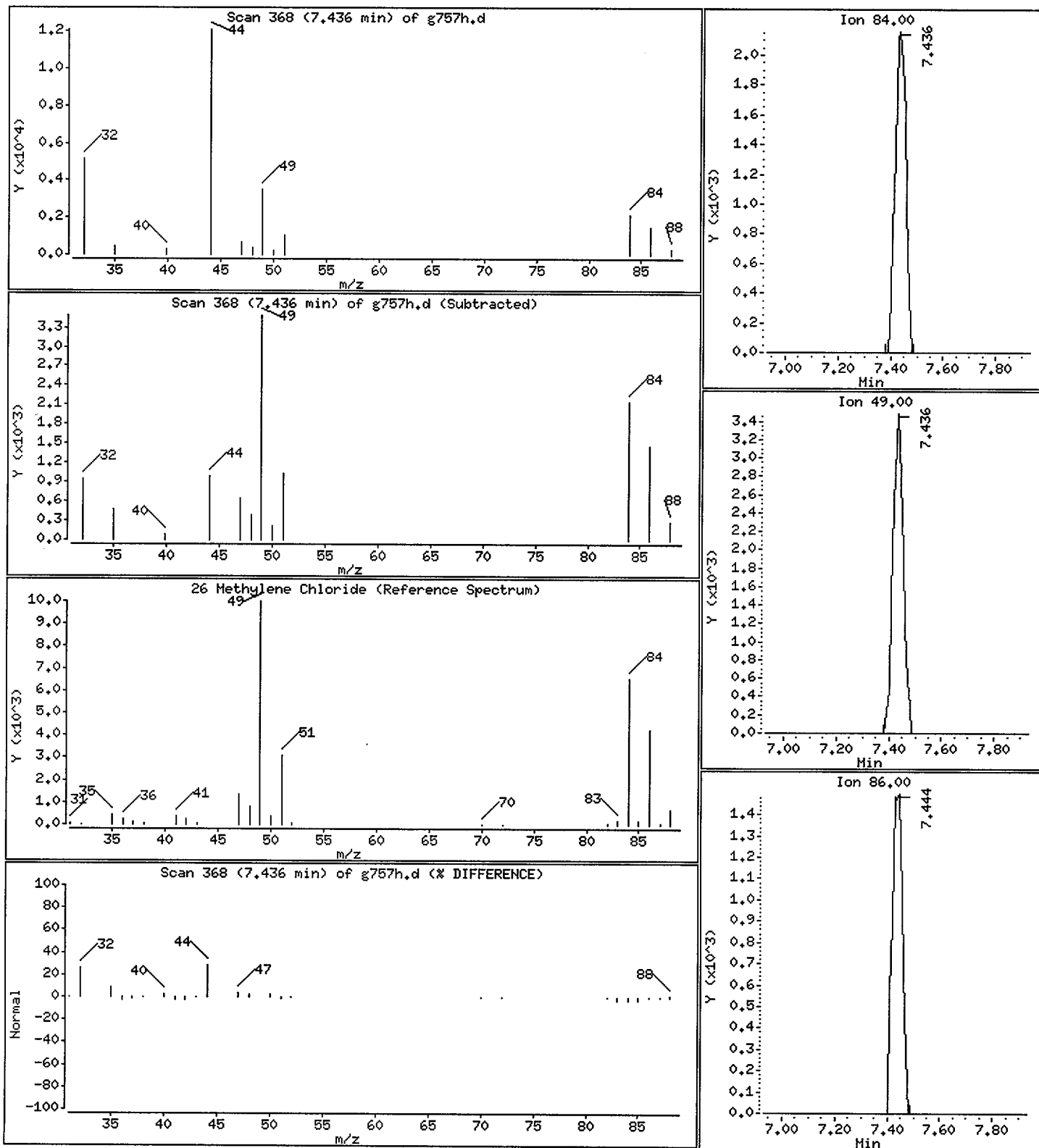
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

26 Methylene Chloride

Concentration: 0.4798 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

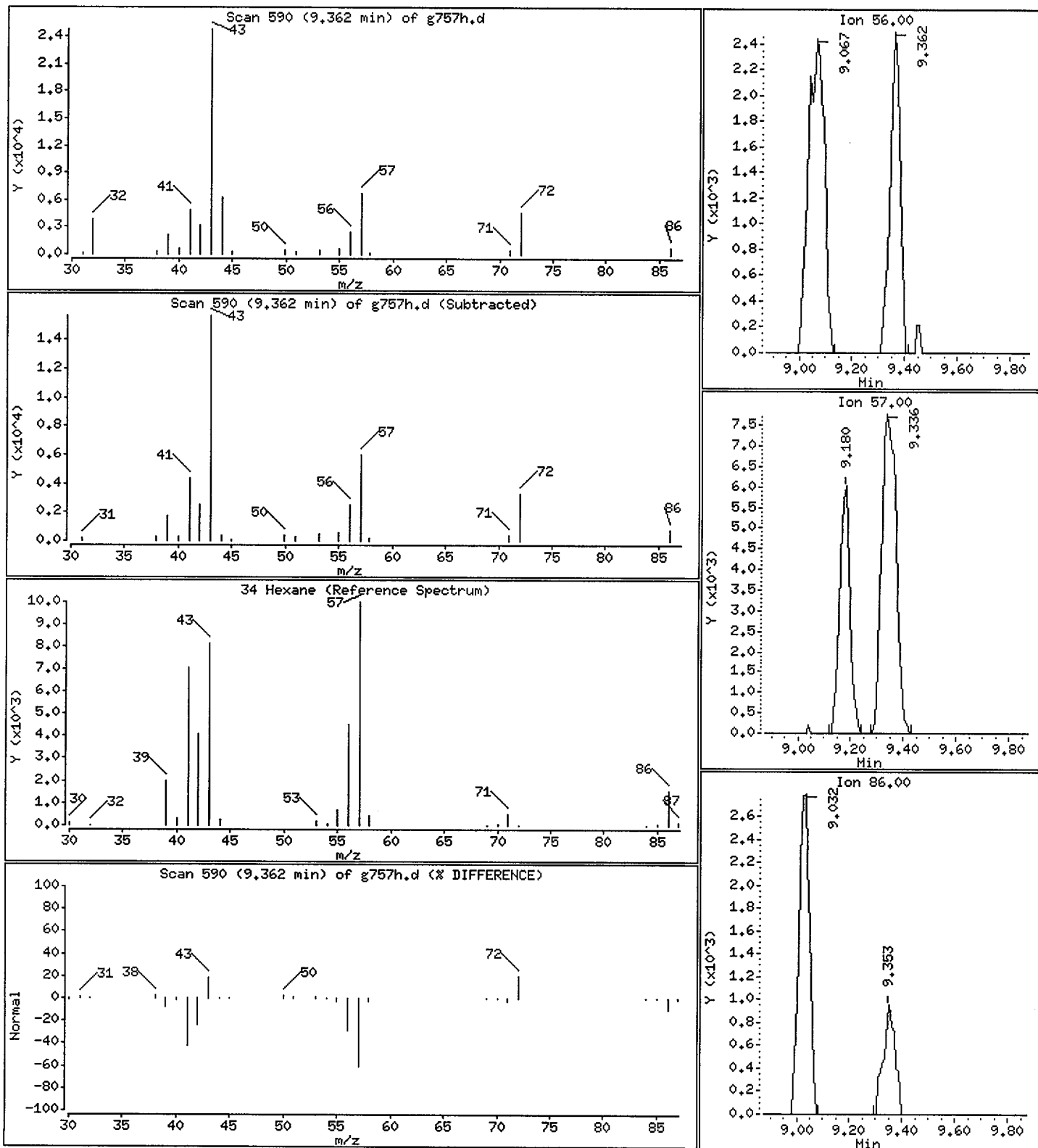
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

34 Hexane

Concentration: 0.6121 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

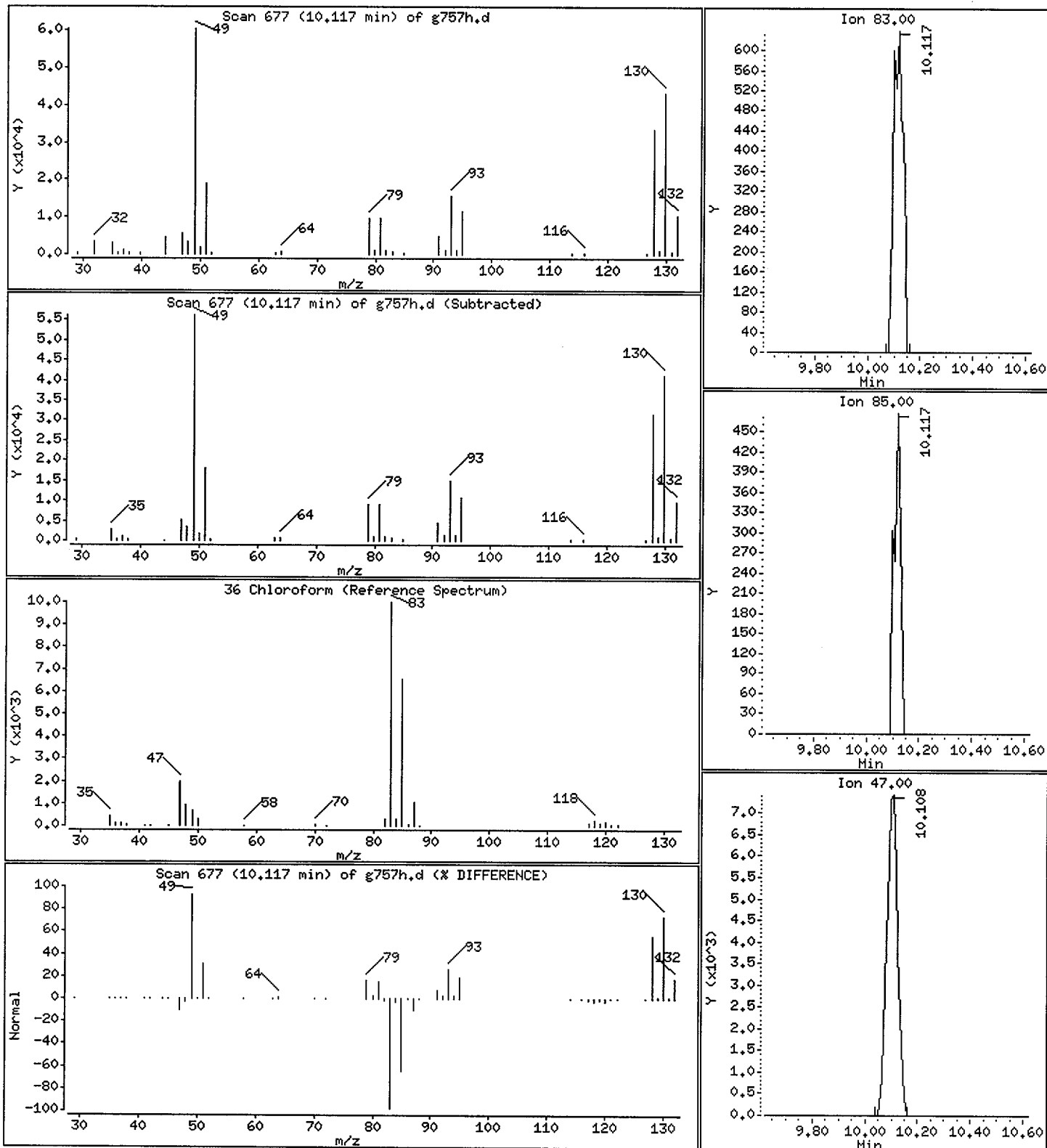
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

36 Chloroform

Concentration: 0.06458 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

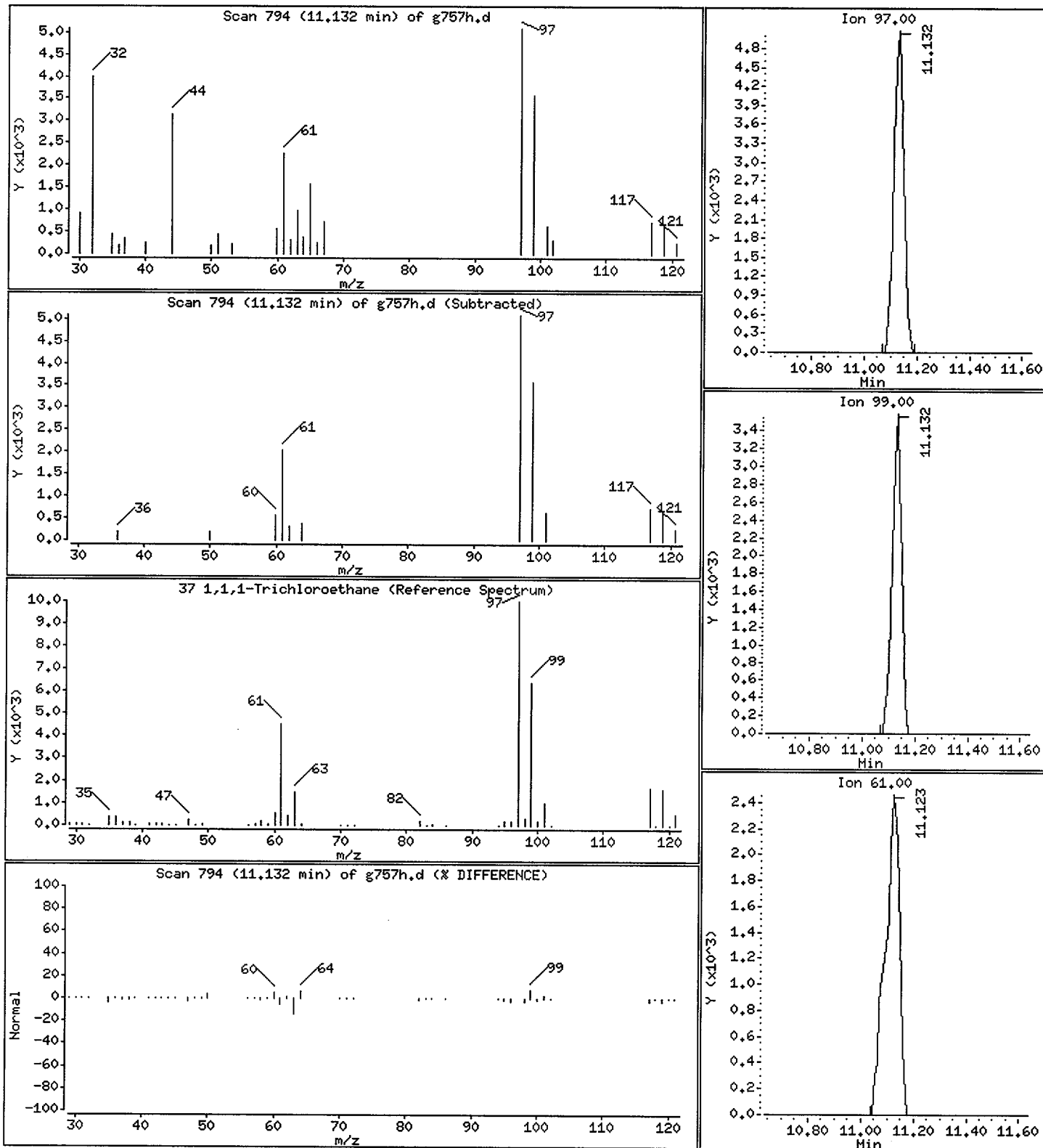
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

37 1,1,1-Trichloroethane

Concentration: 0.5939 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

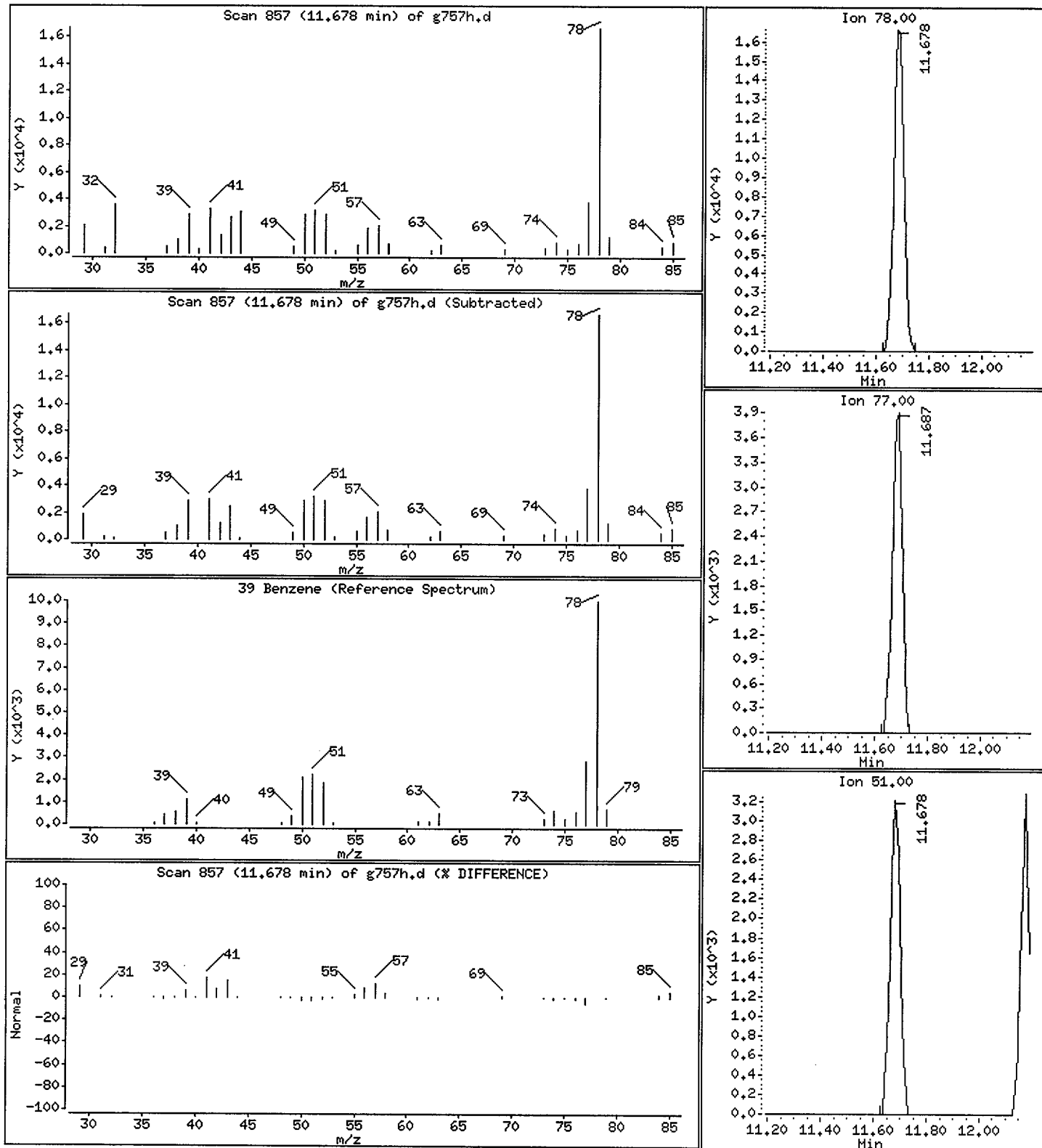
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

39 Benzene

Concentration: 1.799 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

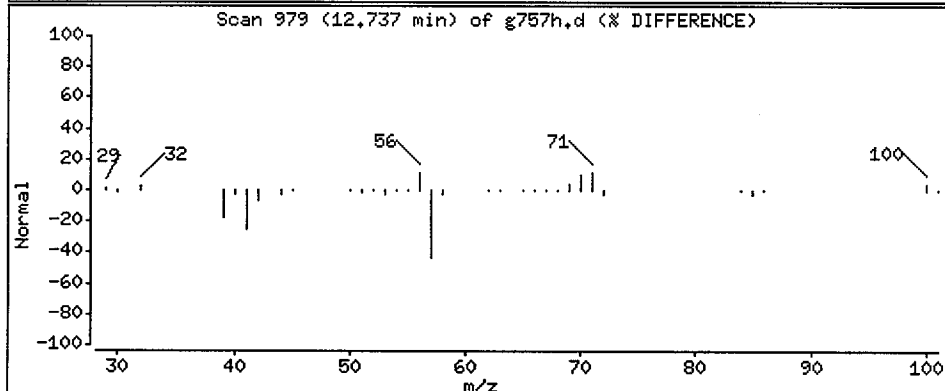
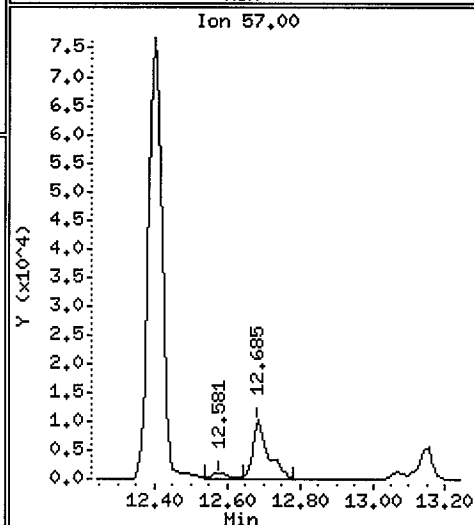
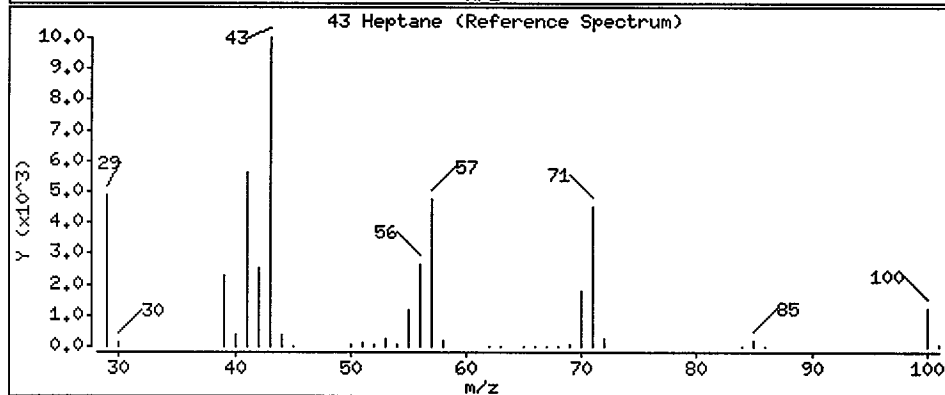
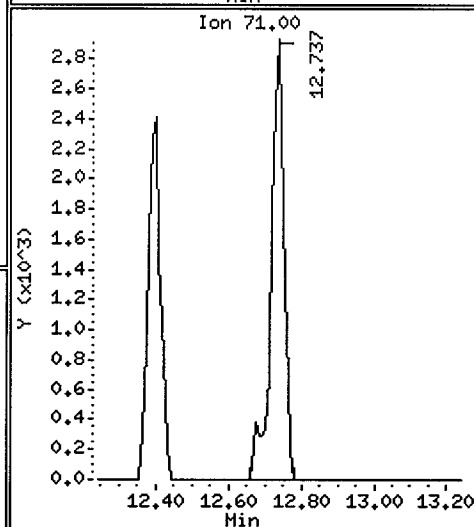
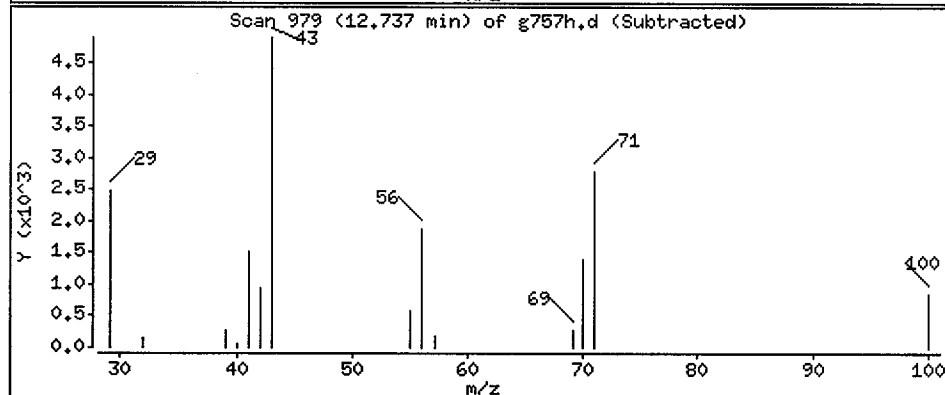
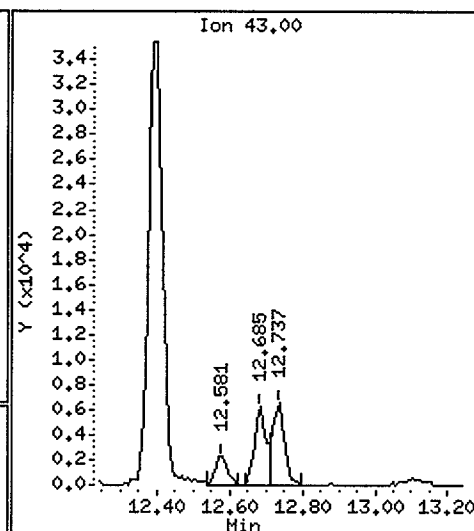
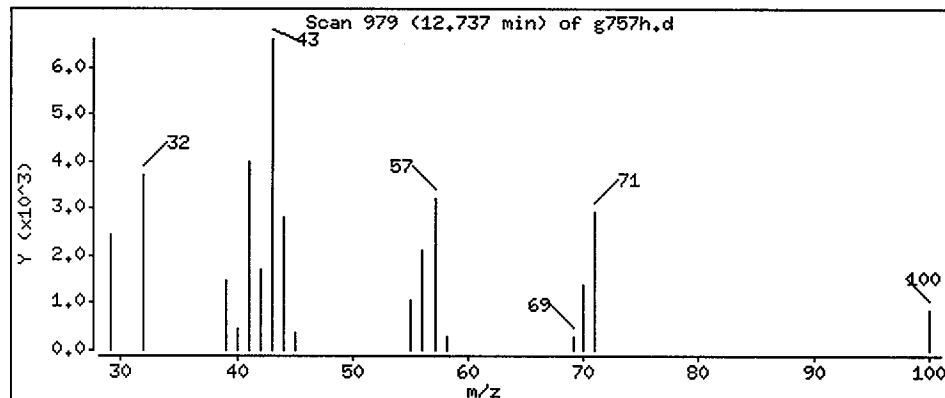
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

43 Heptane

Concentration: 0.8174 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

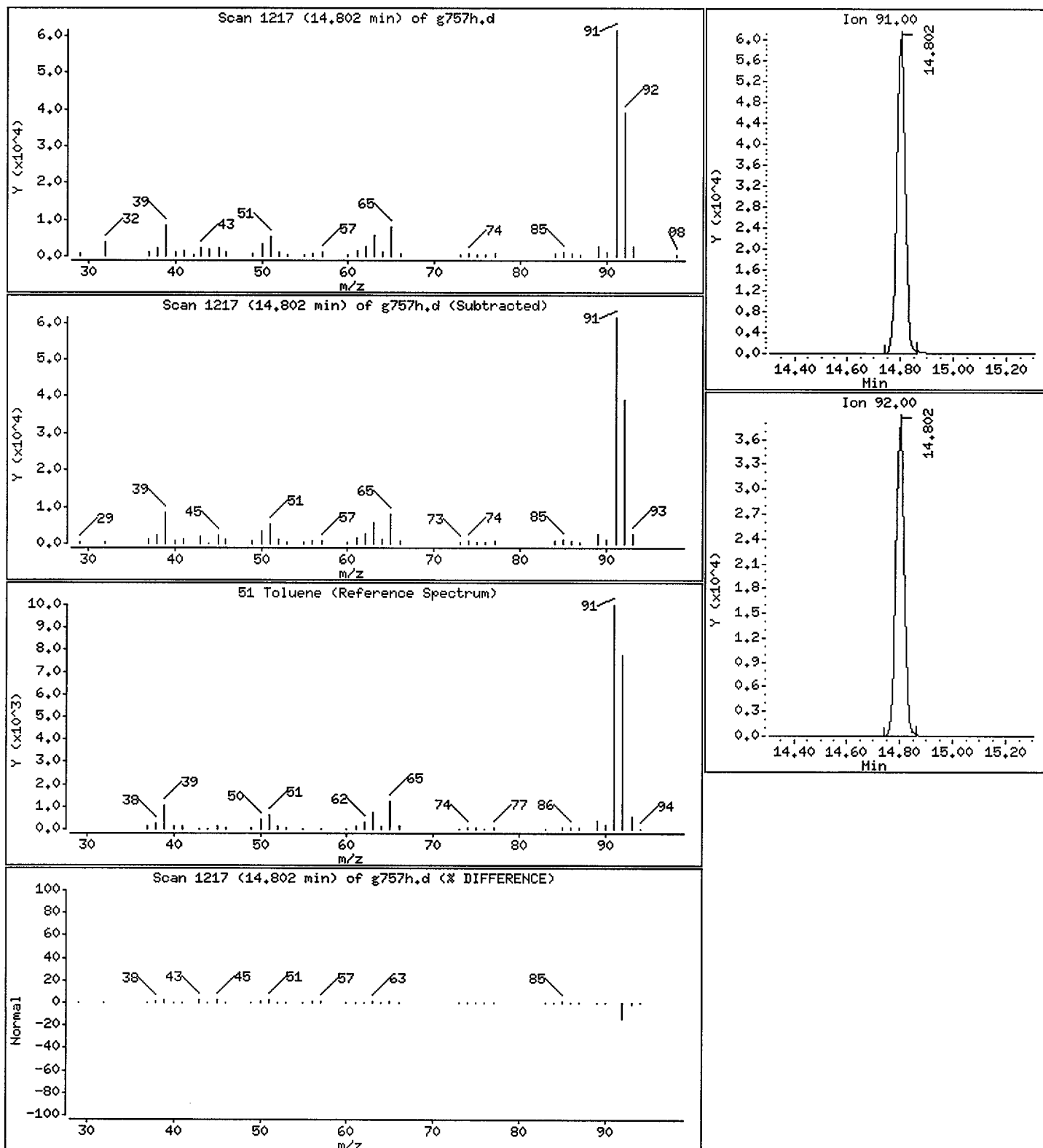
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

51 Toluene

Concentration: 4.939 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

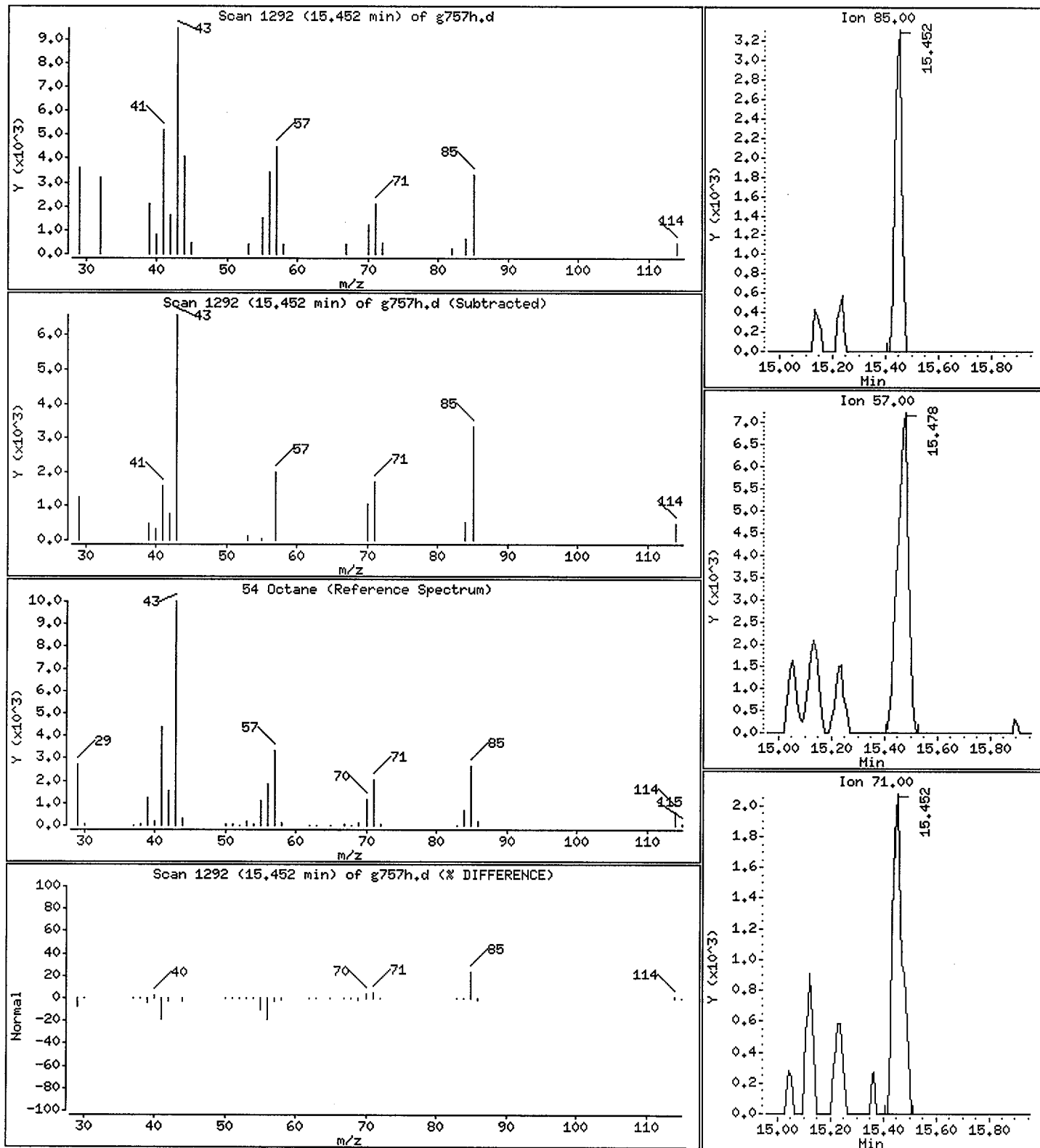
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

54 Octane

Concentration: 0.6321 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

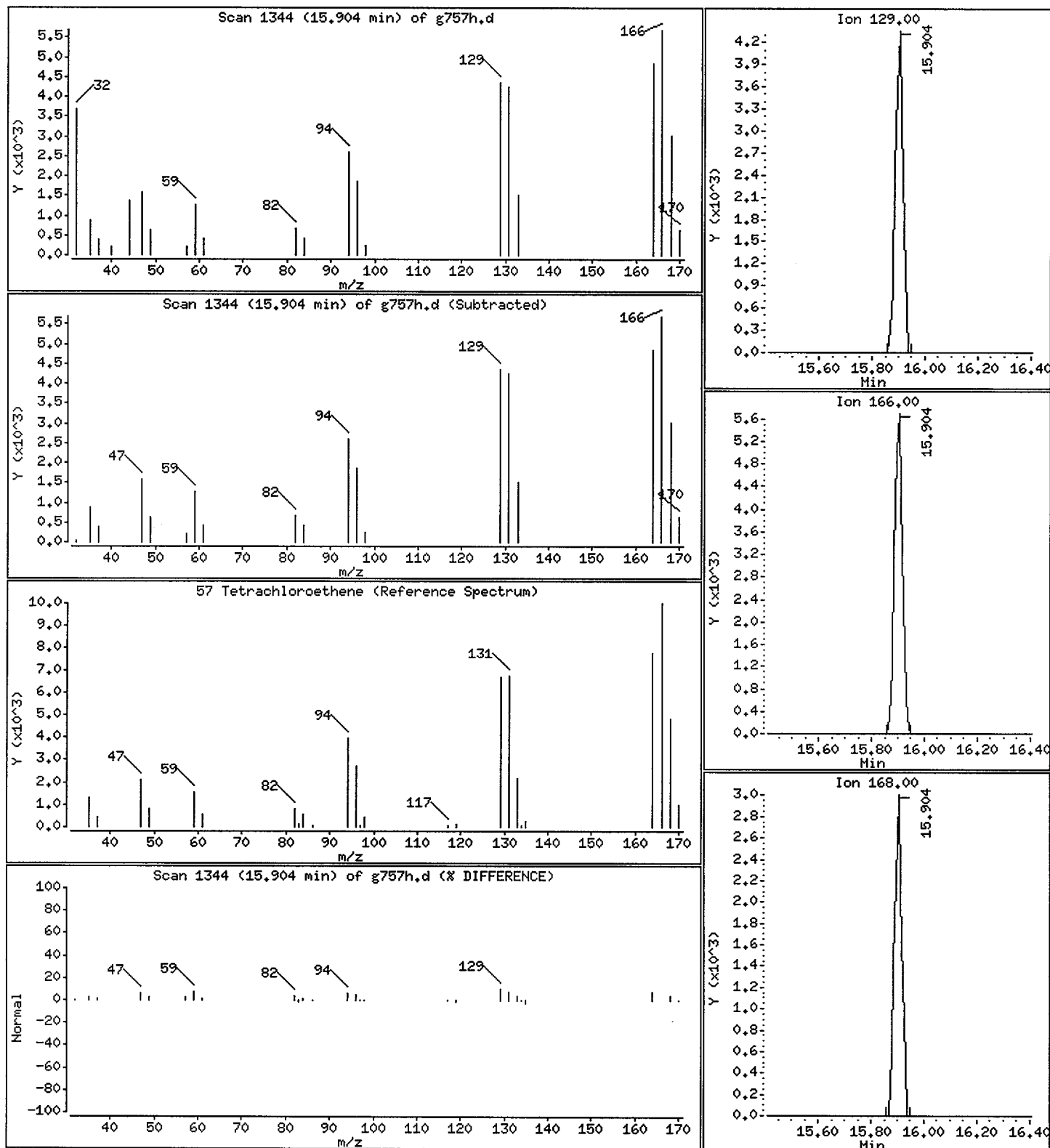
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

57 Tetrachloroethene

Concentration: 0.7640 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

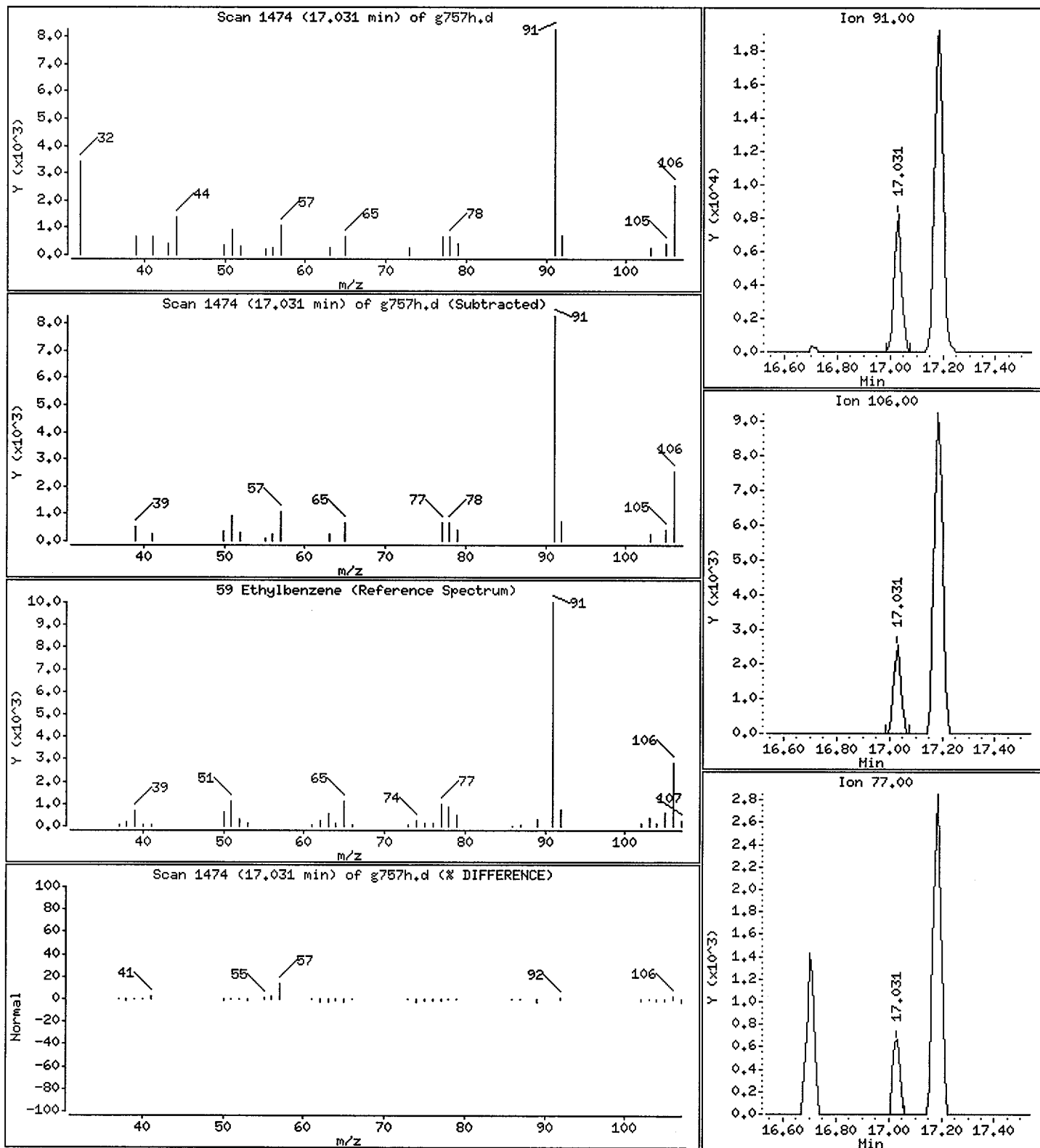
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

59 Ethylbenzene

Concentration: 0.4810 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

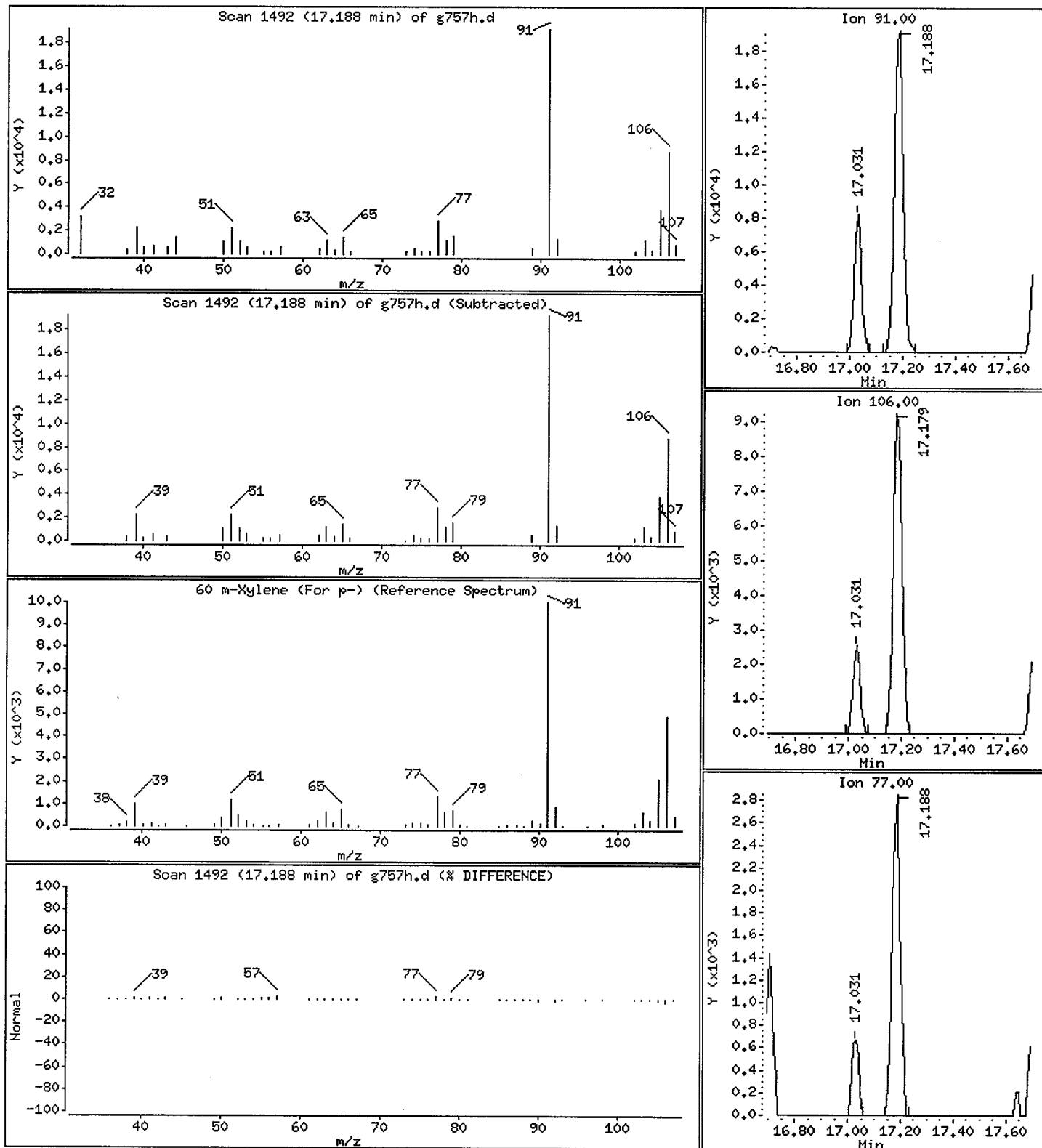
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

60 m-Xylene (For p-)

Concentration: 1.767 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

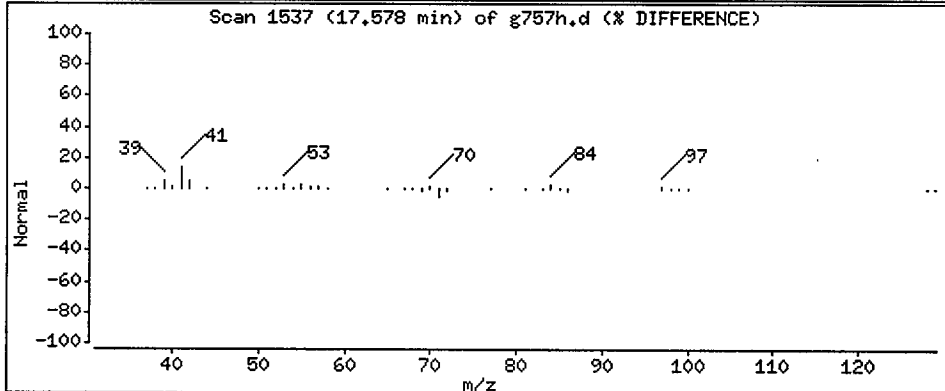
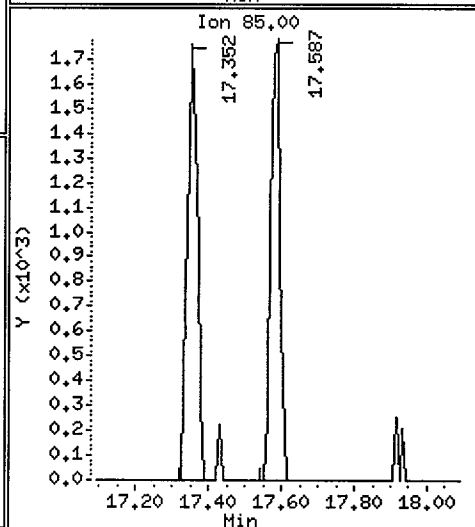
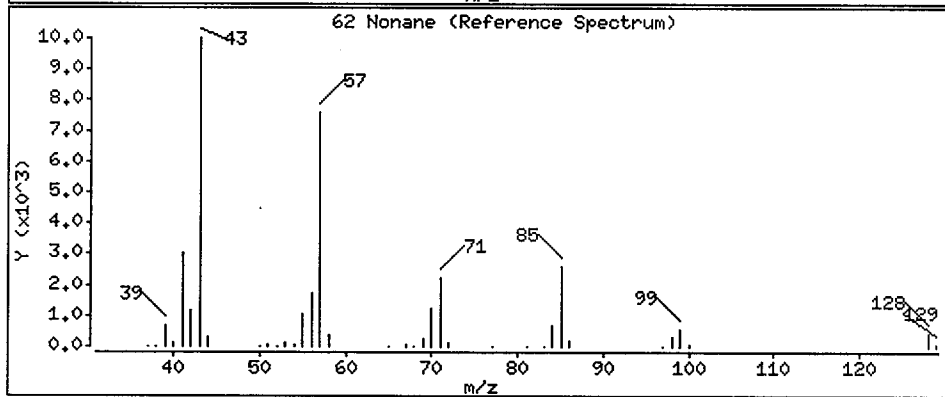
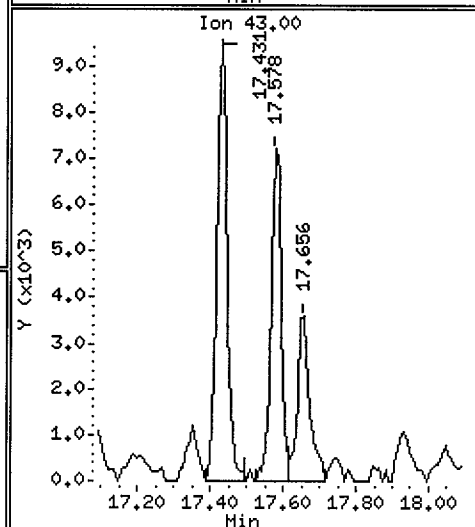
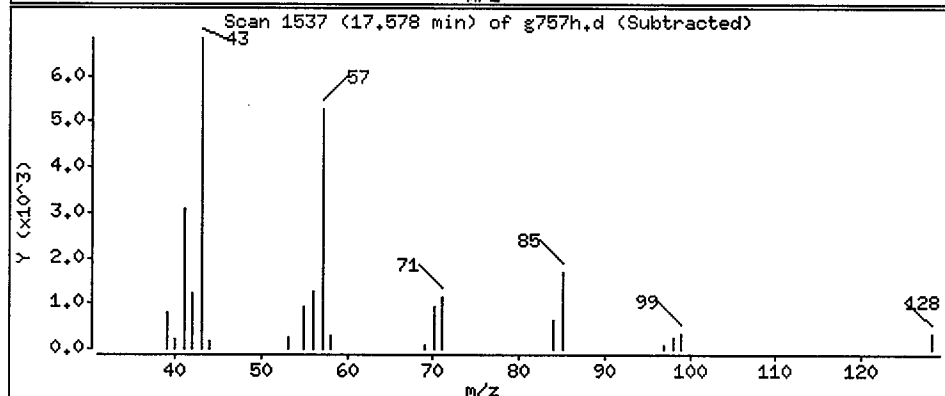
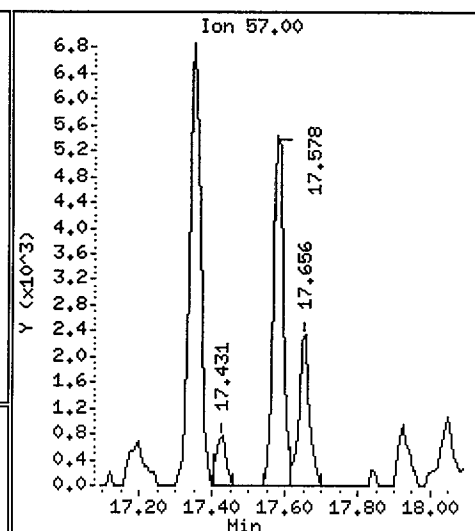
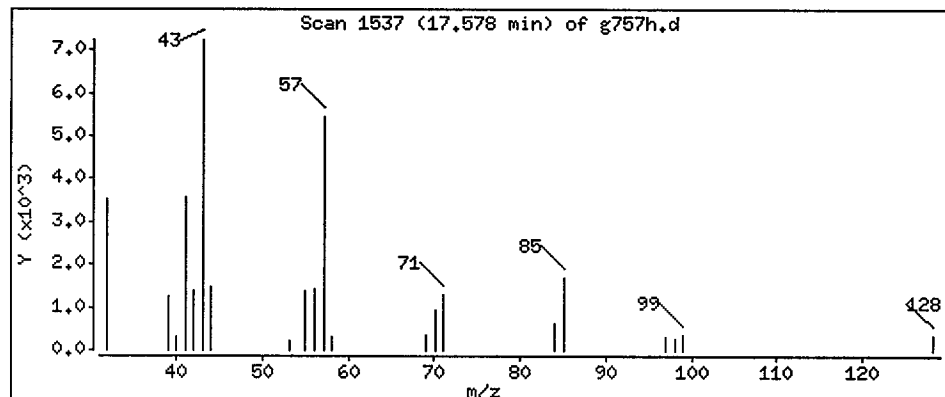
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

62 Nonane

Concentration: 0.5549 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

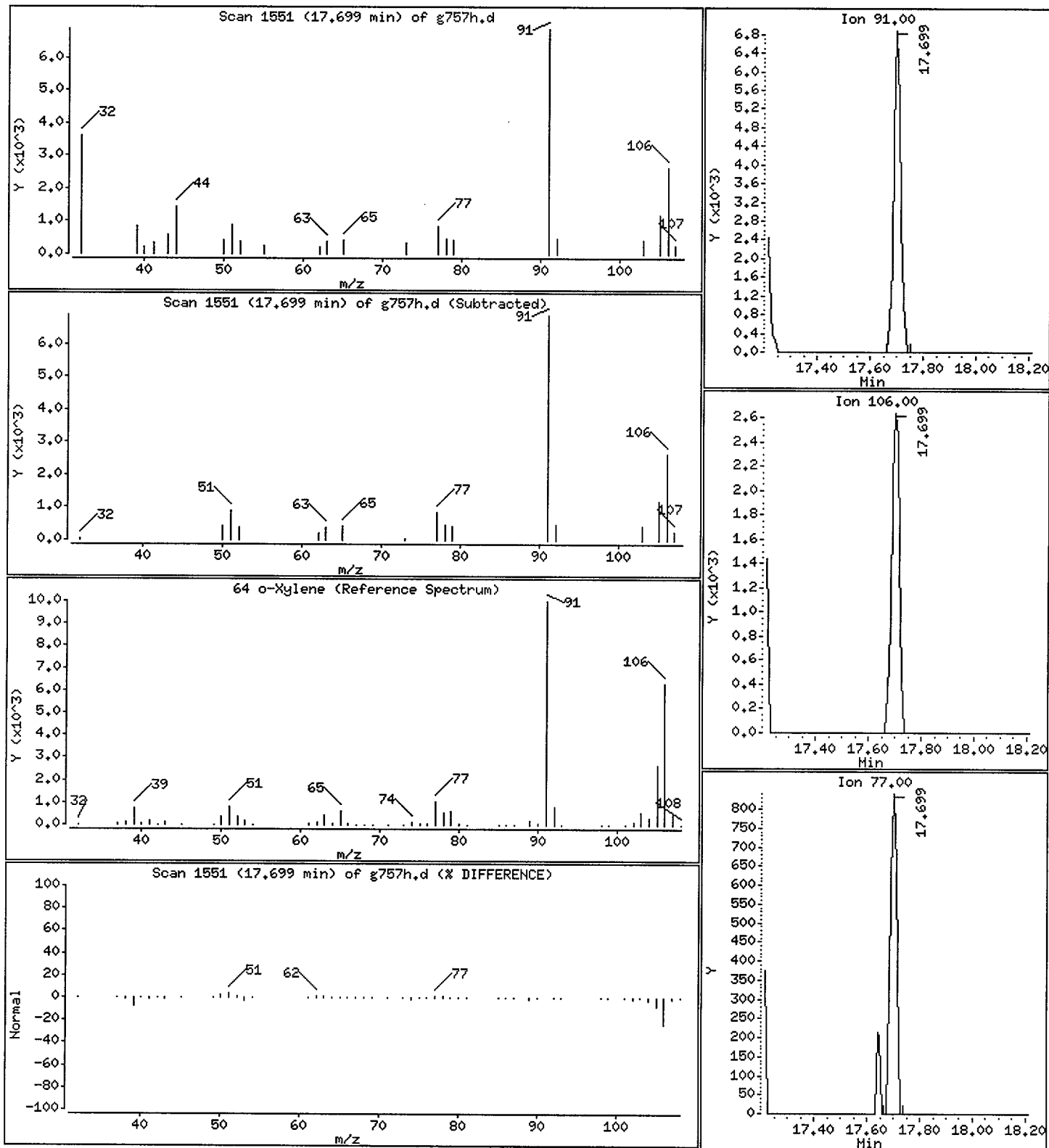
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

64 o-Xylene

Concentration: 0.4990 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

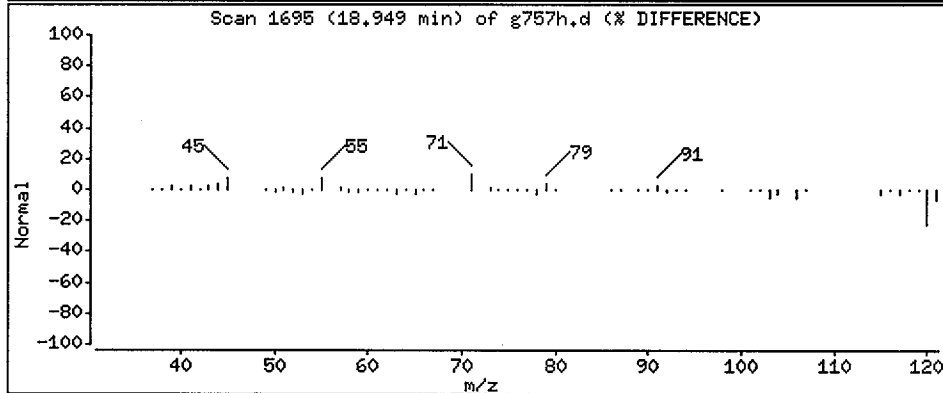
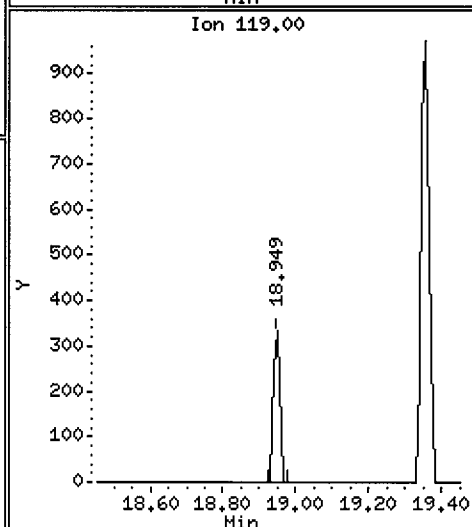
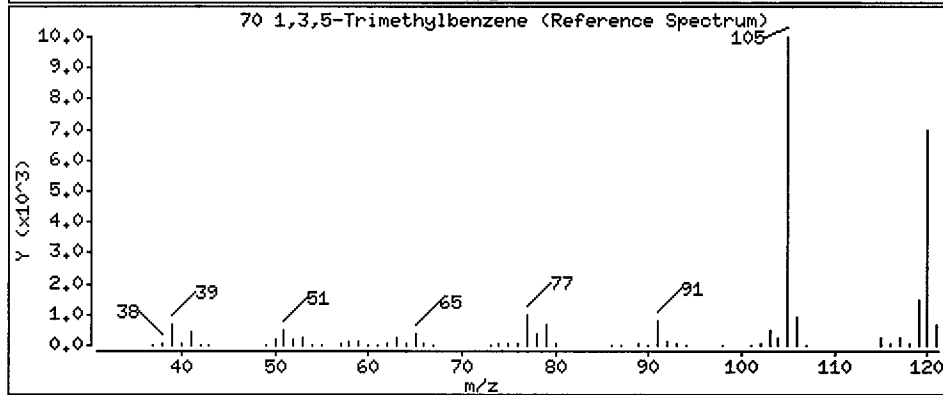
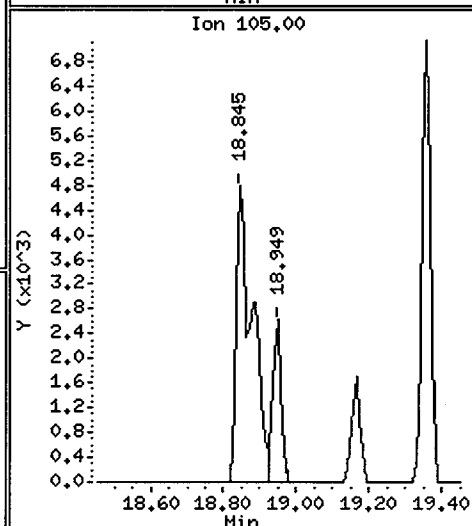
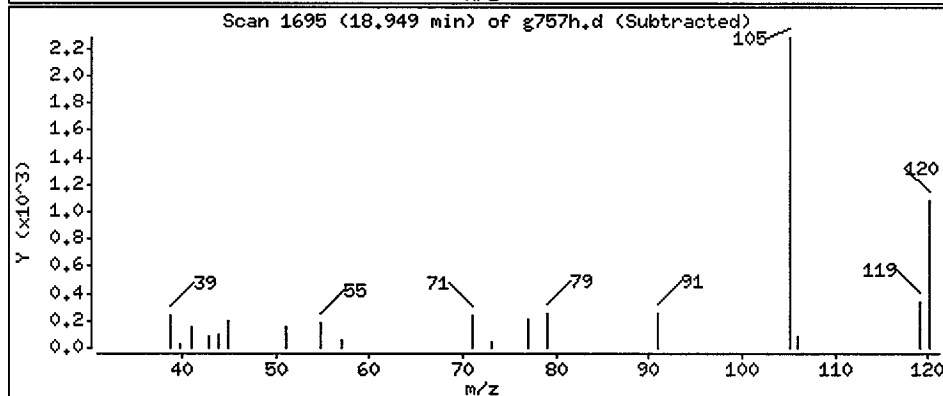
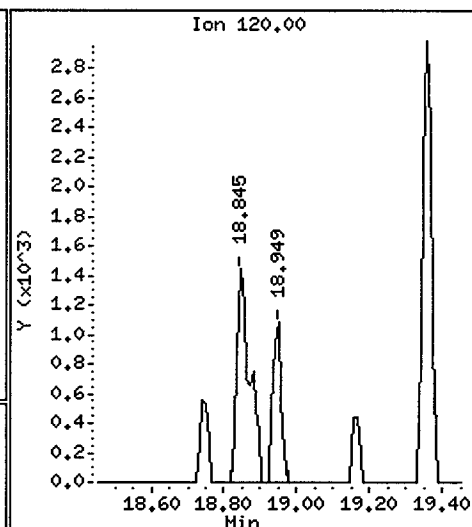
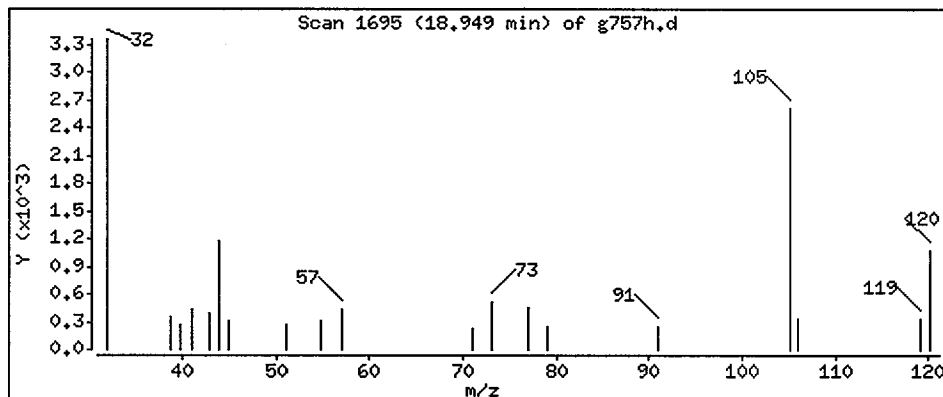
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

70 1,3,5-Trimethylbenzene

Concentration: 0.1348 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: C757H1AA,,0,,

Volume Injected (uL): 500.0

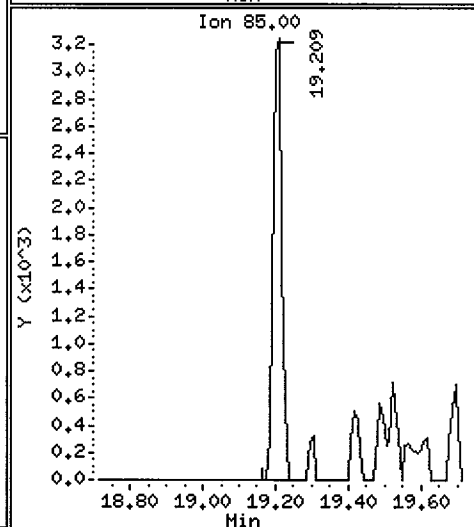
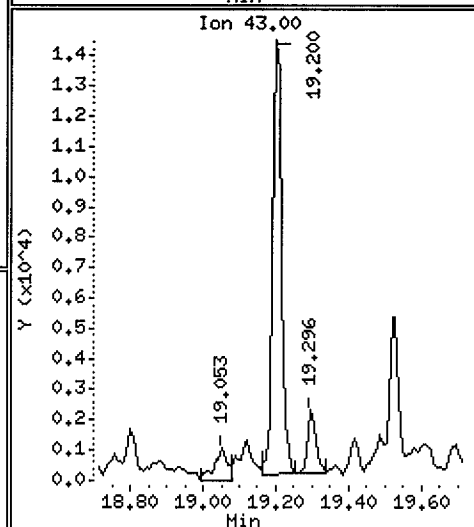
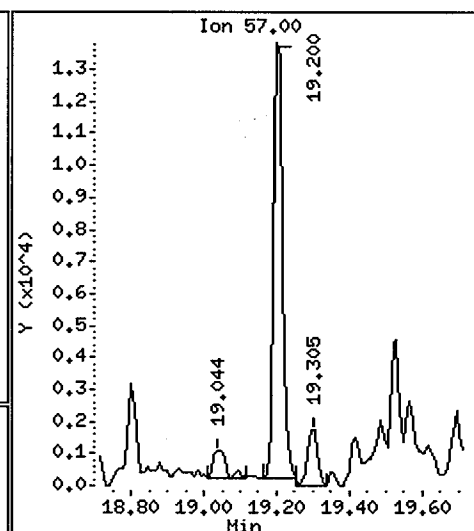
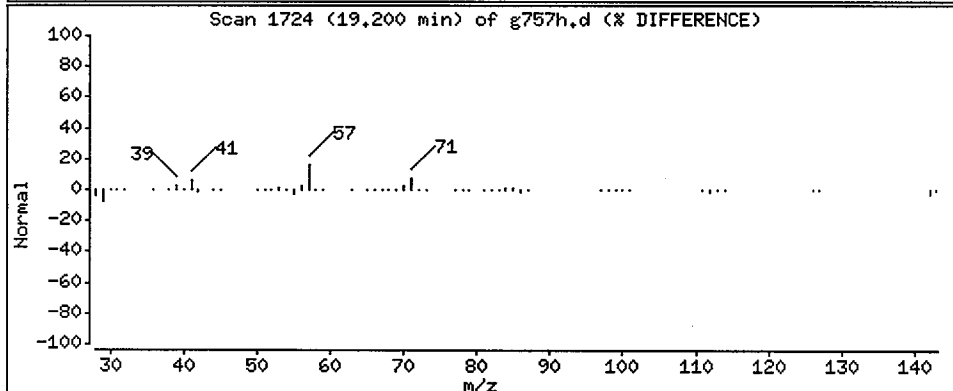
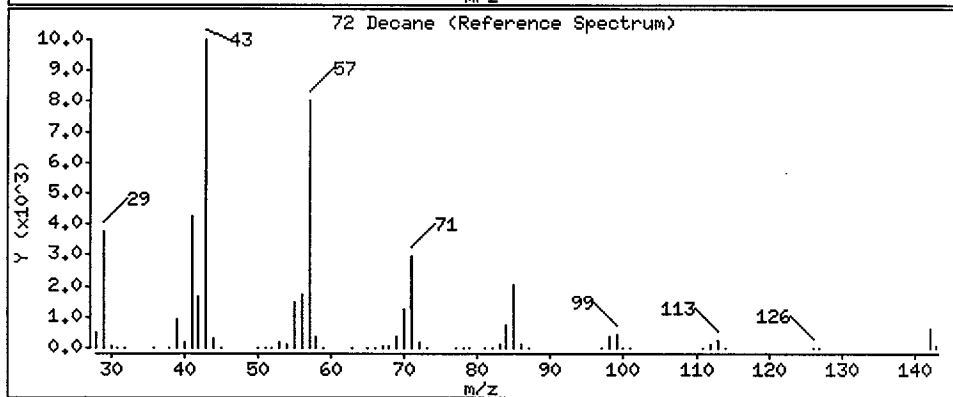
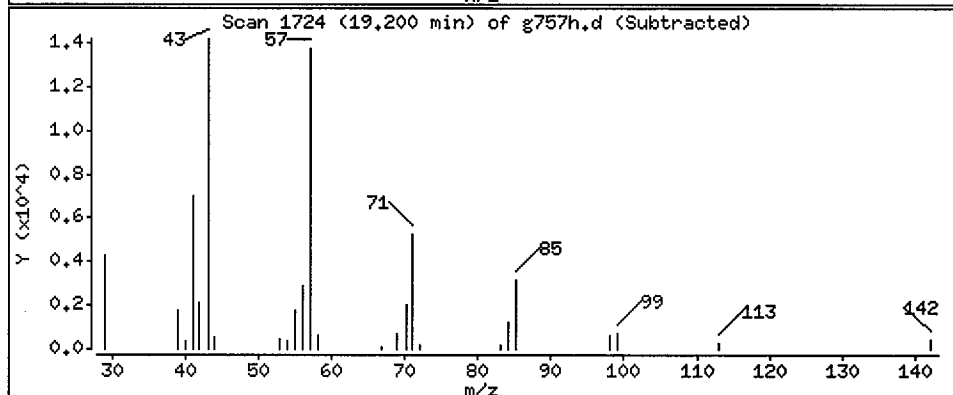
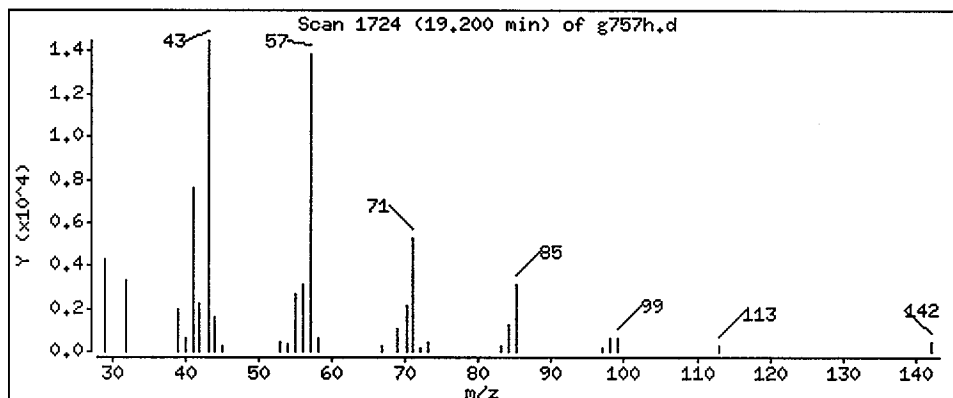
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

72 Decane

Concentration: 1.029 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

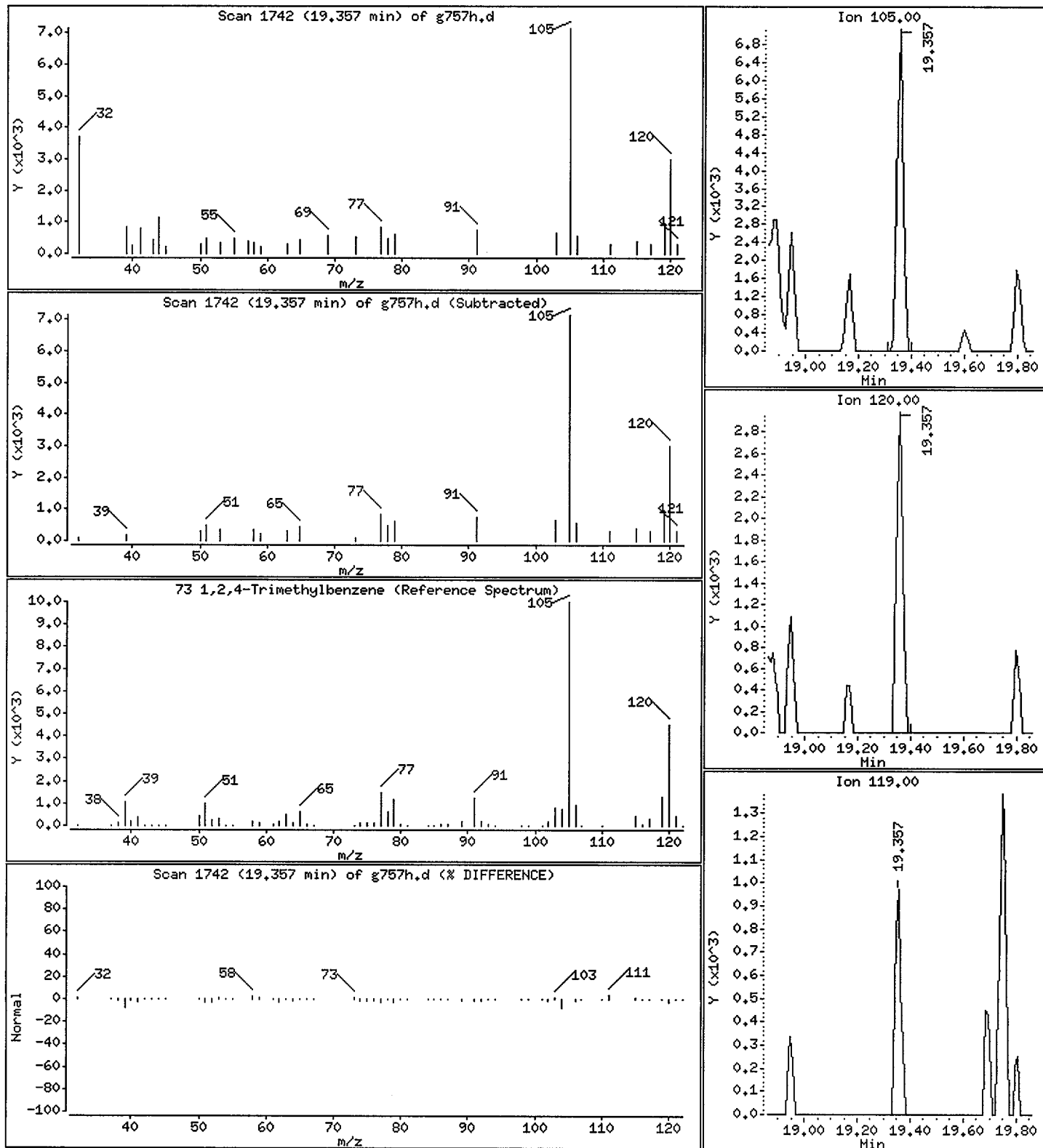
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

73 1,2,4-Trimethylbenzene

Concentration: 0.4276 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

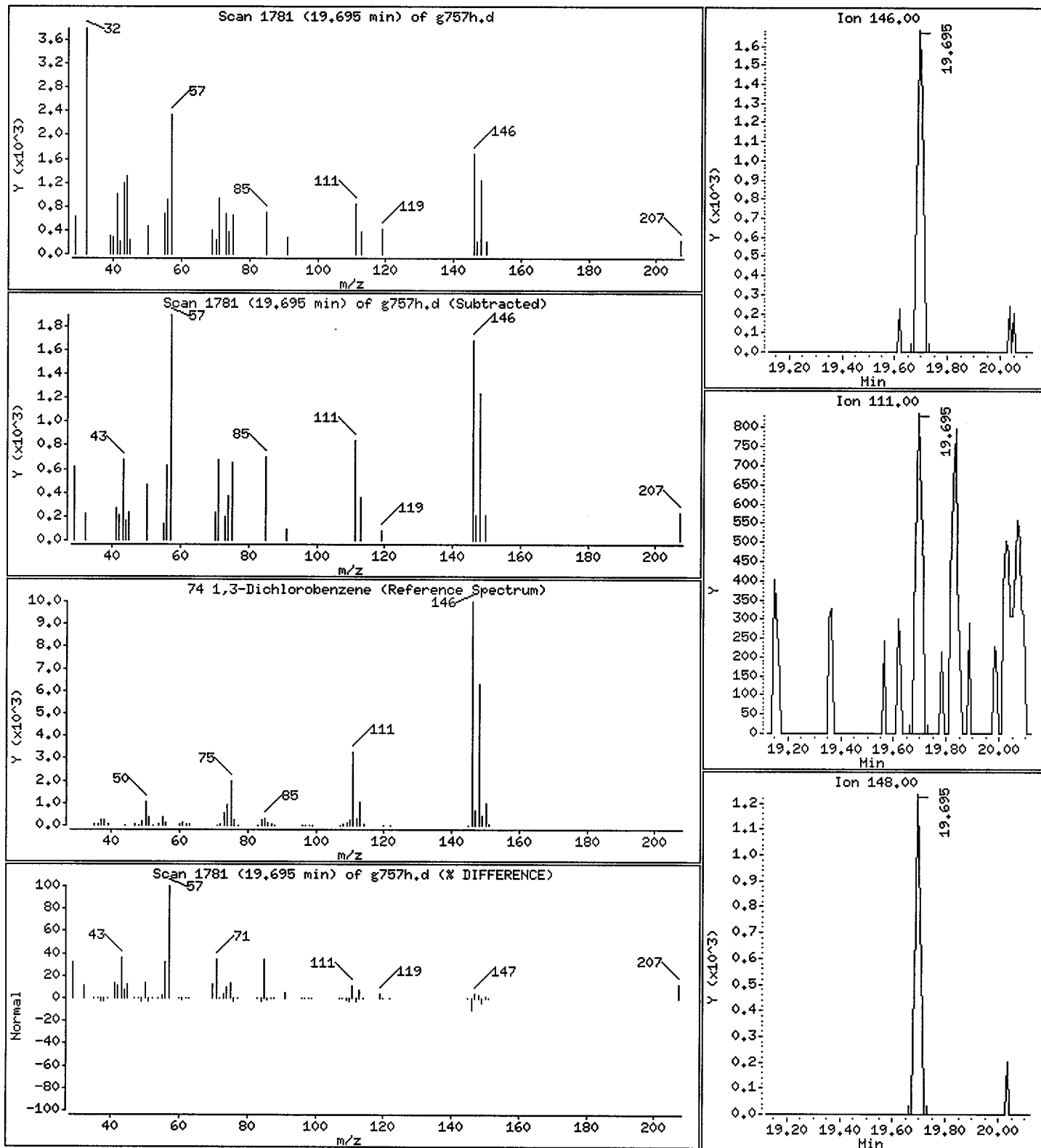
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

74 1,3-Dichlorobenzene

Concentration: 0.1315 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

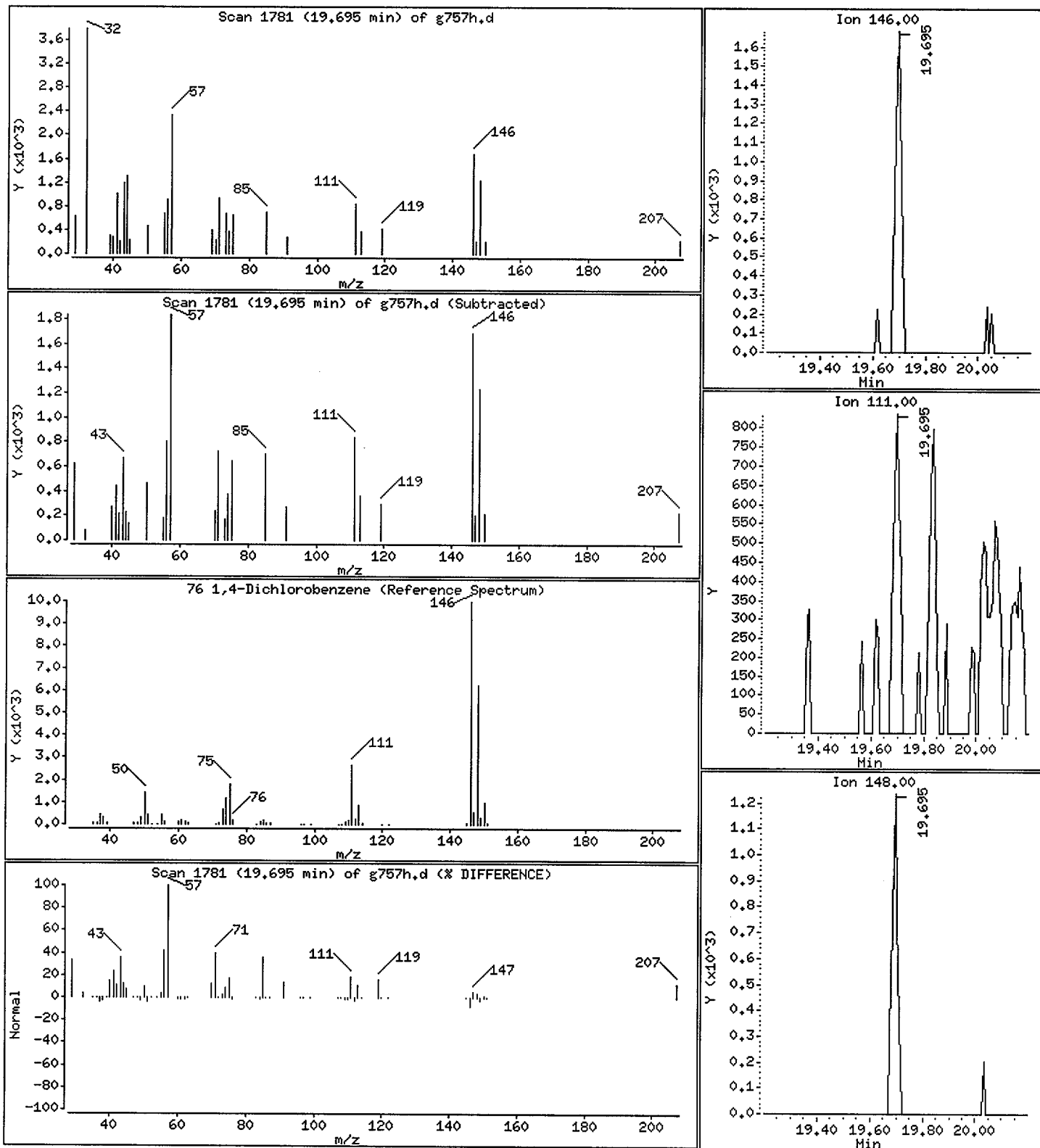
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

76 1,4-Dichlorobenzene

Concentration: 0.1307 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

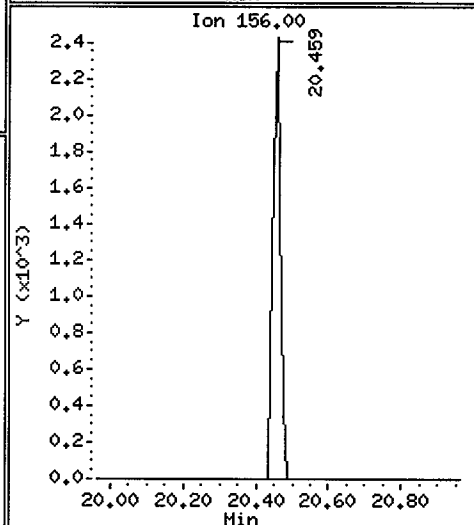
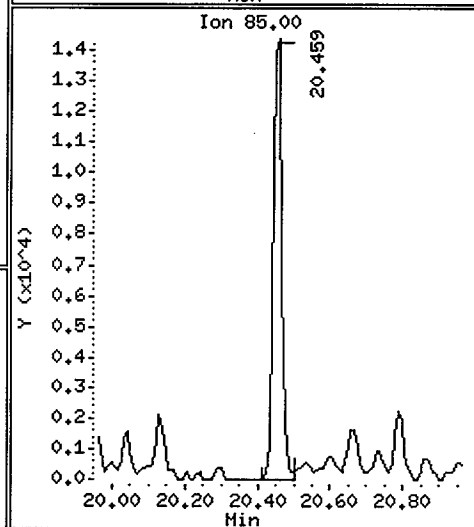
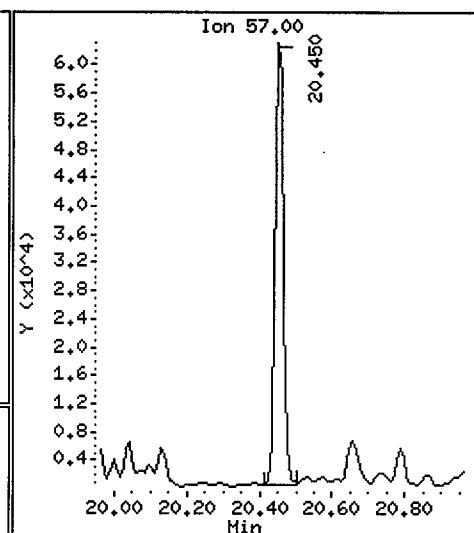
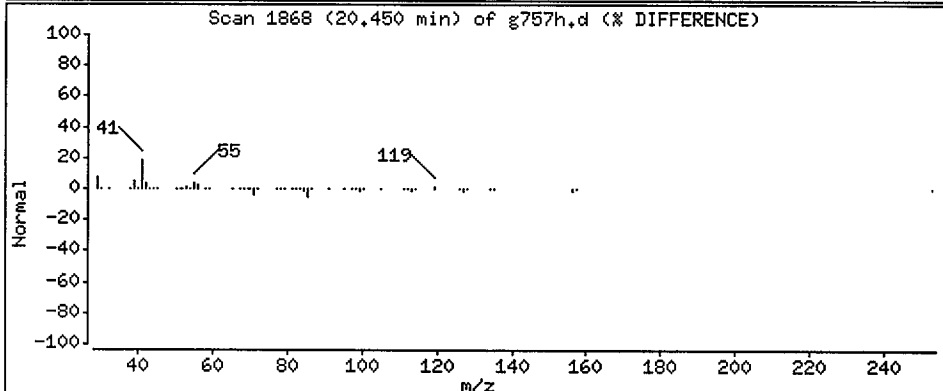
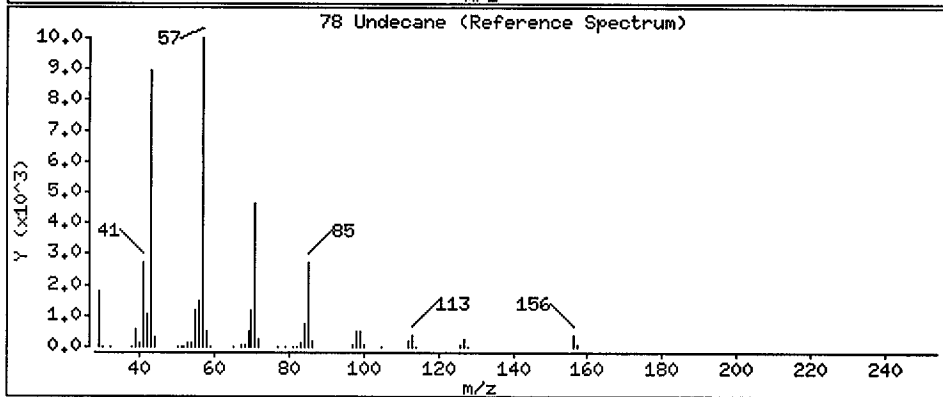
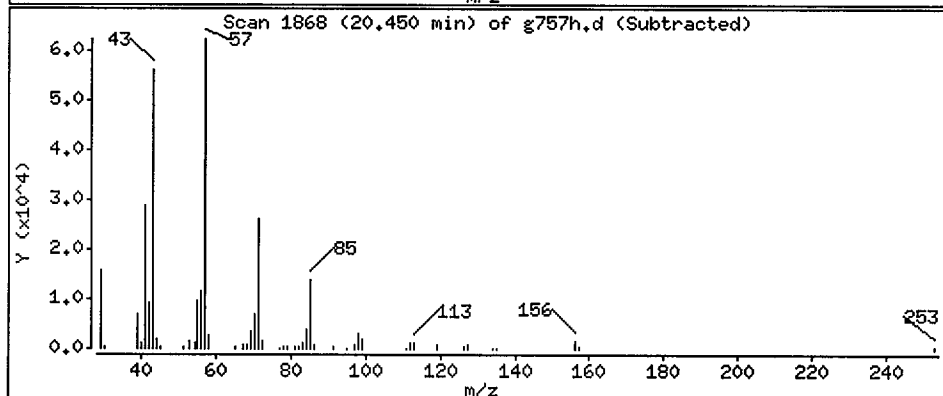
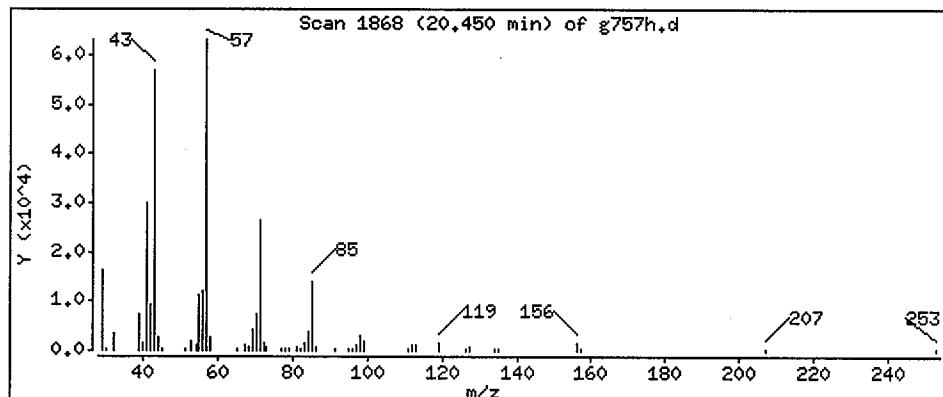
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

78 Undecane

Concentration: 4.337 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

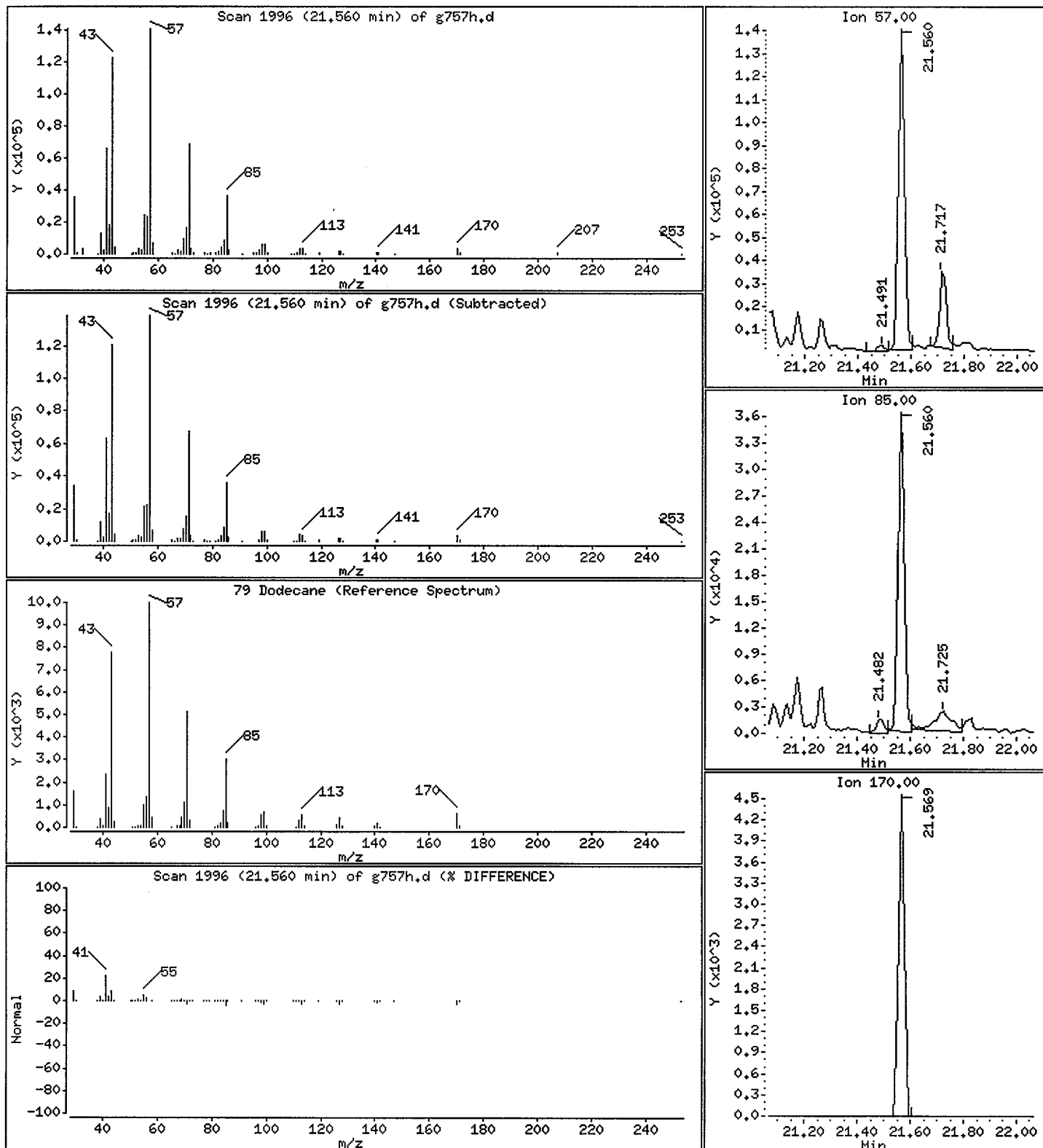
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

79 Dodecane

Concentration: 12.76 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

Volume Injected (uL): 500.0

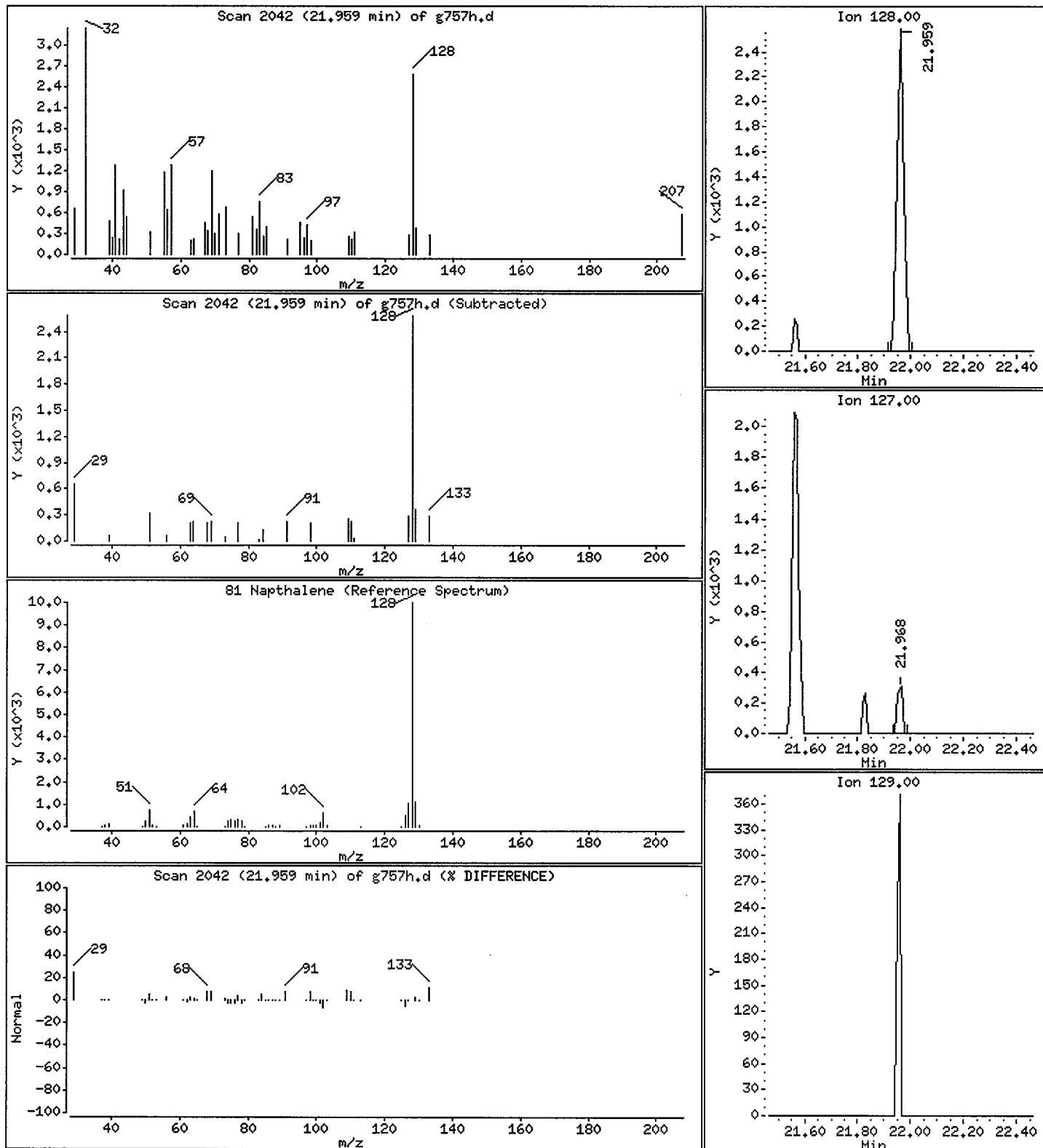
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

81 Napthalene

Concentration: 0.1676 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
 Report Date: 21-Apr-2005 12:27

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/g757h.d
 Lab Smp Id: G757H1AA Client Smp ID: SV-05-01
 Inj Date : 21-APR-2005 08:41
 Operator : 7126 Inst ID: mt.i
 Smp Info : G757H1AA,,0,,
 Misc Info : T042005,LA,bridge.sub,,,924 ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 12:22 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 1
 Dil Factor: 1.34000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	10.108	284584	10.000
* 2 1,4-Difluorobenzene	12.173	321156	10.000
* 3 Chlorobenzene-d5	16.702	461018	10.000

CONCENTRATIONS				QUANT			
RT	HEIGHT	ON-COL (ppb (v/v))	FINAL (ppb (v/v))	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Ethane, 1-chloro-1,1-difluoro-				CAS #: 75-68-3			
4.659	373246	13.1154949	17.57	43	NIST02.1	3500	1
Isobutane				CAS #: 75-28-5			
4.746	65586	2.30462710	3.088	50	NIST02.1	225	1
Acetaldehyde				CAS #: 75-07-0			
4.911	321945	11.3128285	15.16	56	NIST02.1	68	1

Handwritten notes: 22, 4/24/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
 Report Date: 21-Apr-2005 12:27

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY	LIB ENTRY	
Methyl formate					CAS #: 107-31-3		
5.353	52917	1.85945099	2.492	47	NIST02.1	259	1
Ethanol					CAS #: 64-17-5		
5.744	35969	1.26391505	1.694	86	NIST02.1	90	1
Butane, 2-methyl-					CAS #: 78-78-4		
6.021	52359	1.83984342	2.465	90	NIST02.1	699	1
Acetone					CAS #: 67-64-1		
6.403	501534	17.6234082	23.62	53	NIST02.1	206	1
Carbon disulfide					CAS #: 75-15-0		
7.618	29461	1.03523037	1.387	74	NIST02.1	959	1
Propanal, 2-methyl-					CAS #: 78-84-2		
8.121	40021	1.40629832	1.884	72	NIST02.1	670	1
2,3-Butanedione					CAS #: 431-03-8		
9.023	41040	1.44210497	1.932	42	NIST02.1	1637	1
Butanal					CAS #: 123-72-8		
9.180	115074	4.04358643	5.418	95	NIST02.1	631	1
Pentane, 2,2,4,4-tetramethyl-					CAS #: 1070-87-7		
12.398	212928	6.63004895	8.884	59	NIST02.1	12329	2
Hexane, 2,4-dimethyl-					CAS #: 589-43-5		
13.726	38786	1.20769968	1.618	90	NIST02.1	7447	2
Pentane, 2,3,4-trimethyl-					CAS #: 565-75-3		
14.255	70442	2.19338888	2.939	90	NIST02.1	7464	2
Pentane, 2,3,3-trimethyl-					CAS #: 560-21-4		
14.420	40339	1.25605625	1.683	83	NIST02.1	7458	2
dl-2-Ethylhexyl chloroformate					CAS #: 24468-13-1		
21.075	83545	1.81218521	2.428	53	NIST02.1	50875	3
3-Penten-2-ol					CAS #: 1569-50-2		
21.127	48605	1.05429723	1.413	9	NIST02.1	1704	3
Undecane, 2-methyl-					CAS #: 7045-71-8		
21.170	91494	1.98460798	2.659	86	NIST02.1	36171	3

4/21/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d
Report Date: 21-Apr-2005 12:27

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY	LIB ENTRY	
Undecane, 3-methyl-							
21.257	64565	1.40048762	1.877	86	NIST02.1	36176	3
Undecane, 2,6-dimethyl-							
21.717	117630	2.55152727	3.419	90	NIST02.1	45593	3
Acetaldehyde							
28.701	85790	1.86088179	2.494	2	NIST02.1	69	3

4/24/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

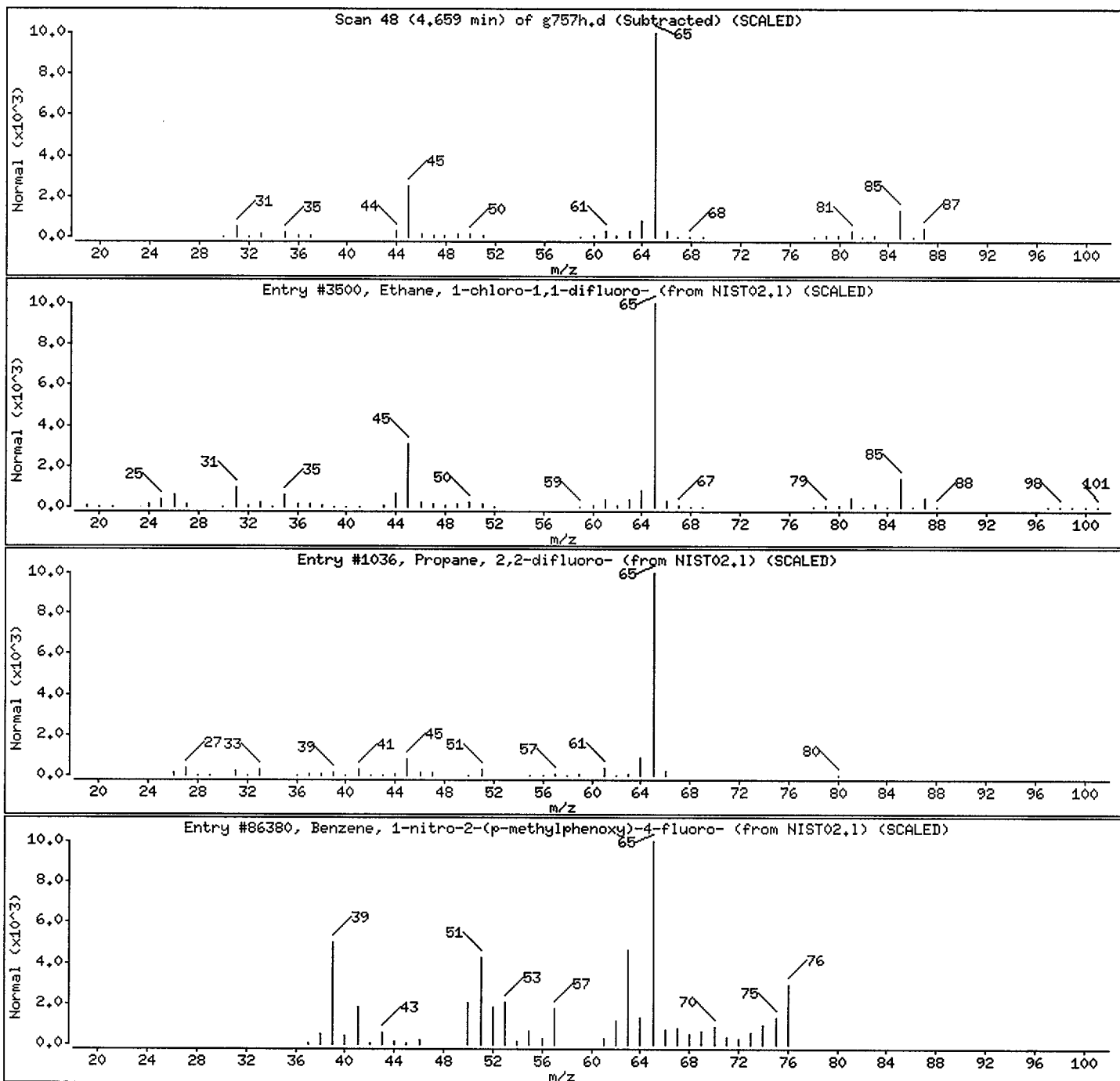
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1-chloro-1,1-difluoro-	75-68-3	NIST02.1	3500	43	C2H3ClF2	100
Propane, 2,2-difluoro-	420-45-1	NIST02.1	1036	9	C3H6F2	80
Benzene, 1-nitro-2-(p-methylphenoxy)-4-f	28987-57-7	NIST02.1	86380	1	C13H10FN03	247



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

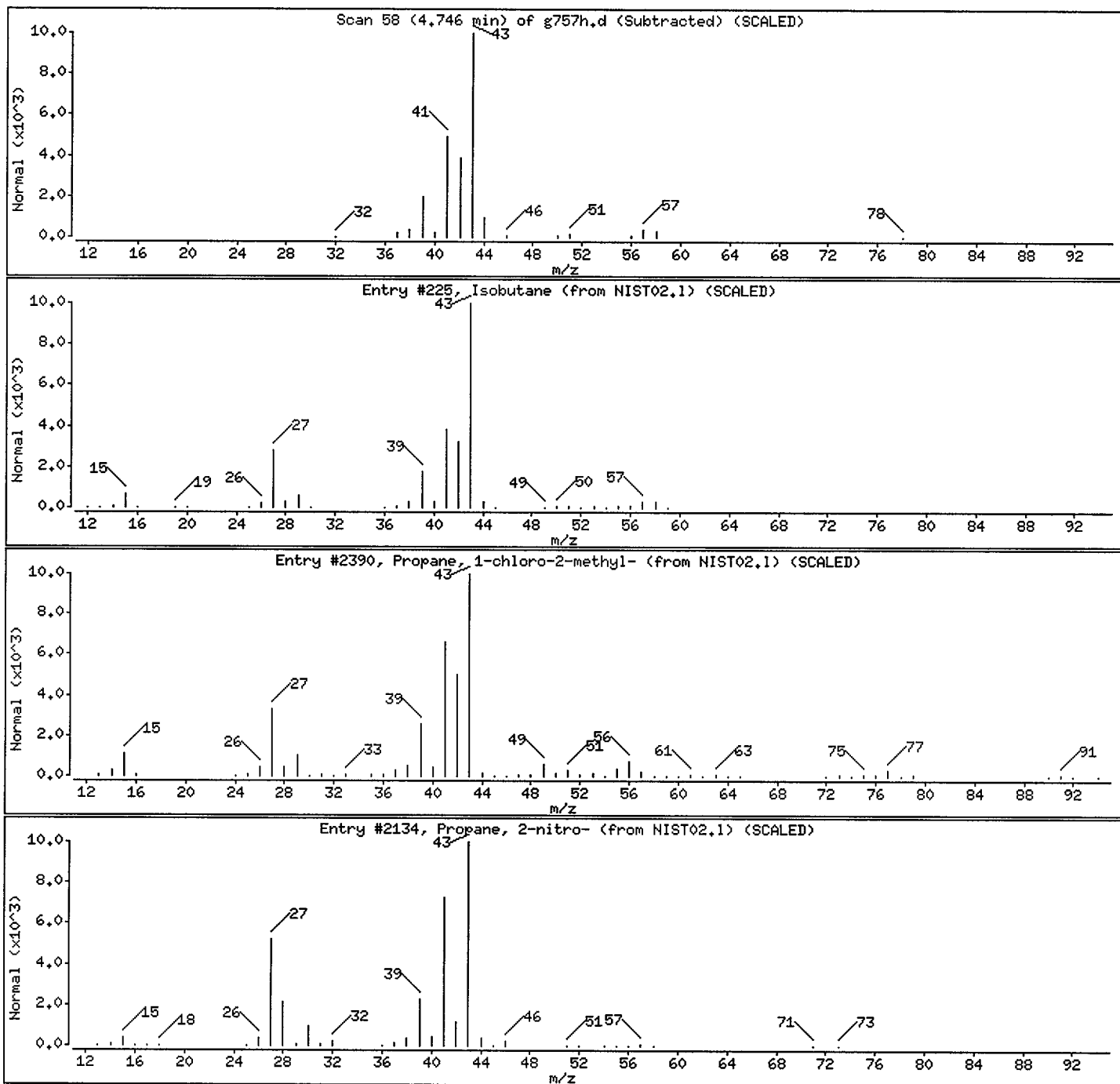
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST02.1	225	50	C4H10	58
Propane, 1-chloro-2-methyl-	513-36-0	NIST02.1	2390	9	C4H9Cl	92
Propane, 2-nitro-	79-46-9	NIST02.1	2134	4	C3H7NO2	89



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

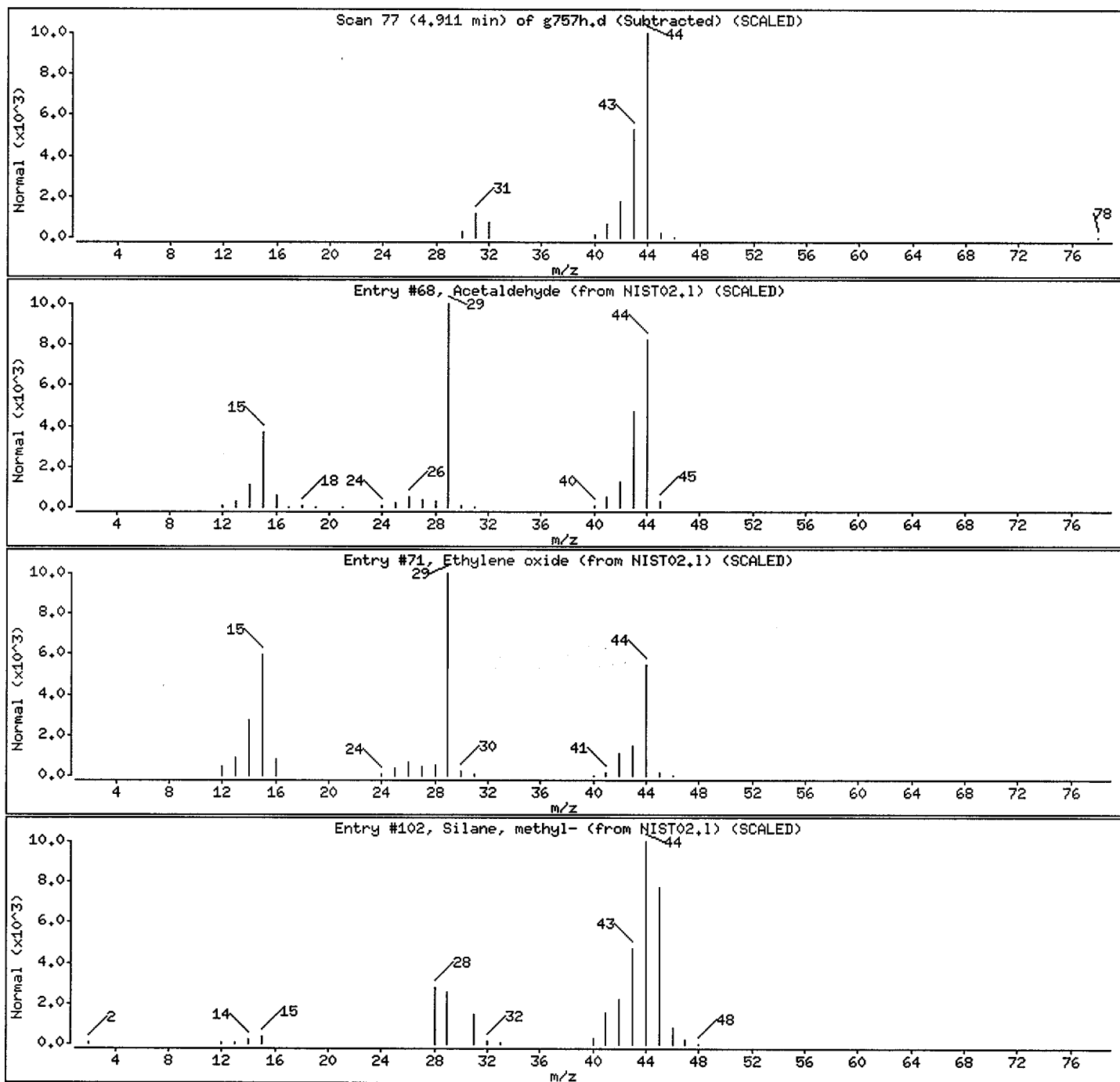
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetaldehyde	75-07-0	NIST02.1	68	56	C ₂ H ₄ O	44
Ethylene oxide	75-21-8	NIST02.1	71	9	C ₂ H ₄ O	44
Silane, methyl-	992-94-9	NIST02.1	102	9	CH ₆ Si	46



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

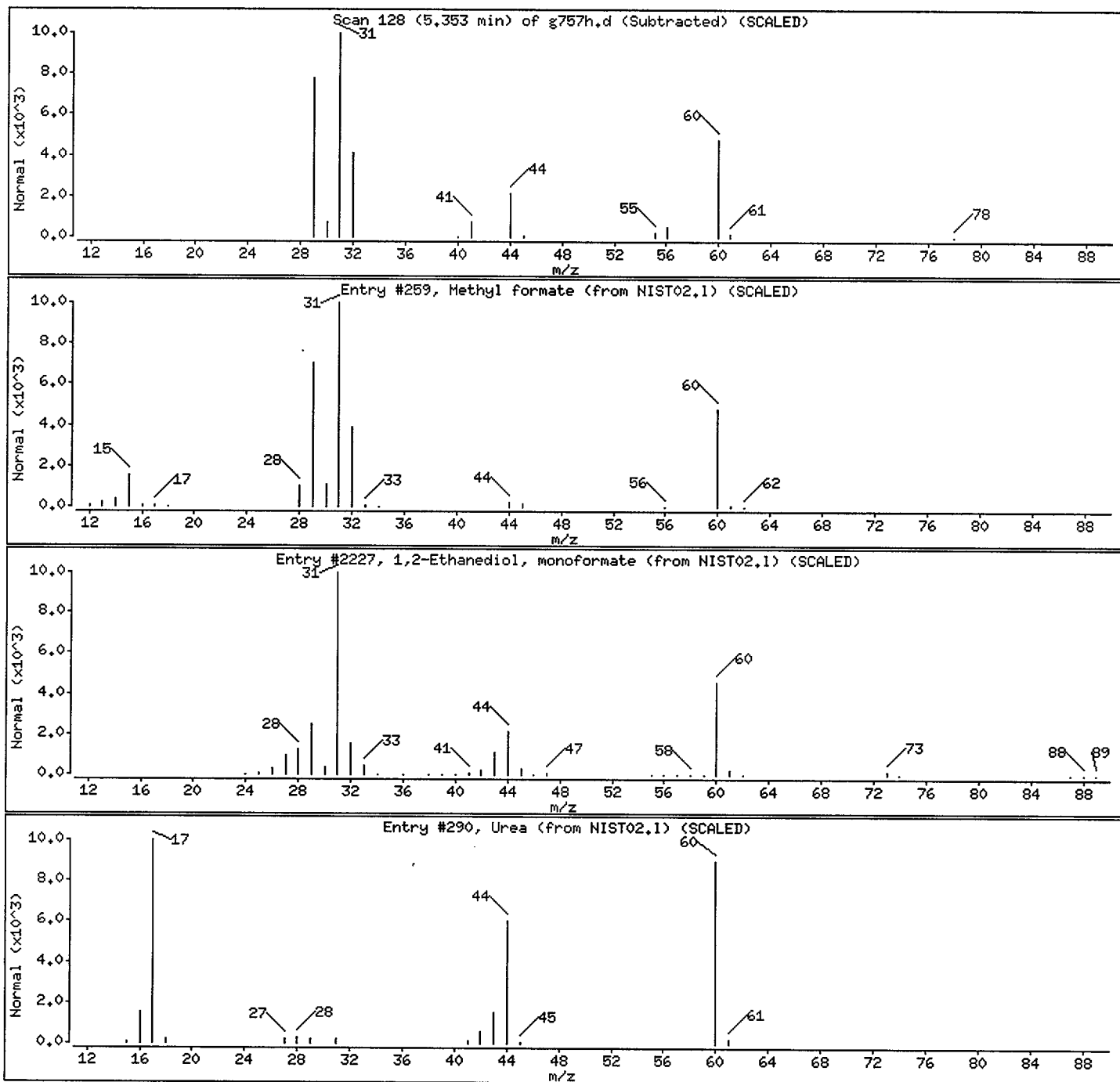
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methyl formate	107-31-3	NIST02.1	259	47	C ₂ H ₄ O ₂	60
1,2-Ethanediol, monoformate	628-35-3	NIST02.1	2227	9	C ₃ H ₆ O ₃	90
Urea	57-13-6	NIST02.1	290	7	CH ₄ N ₂ O	60



Data File: /var/chem/gcms/mt,i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

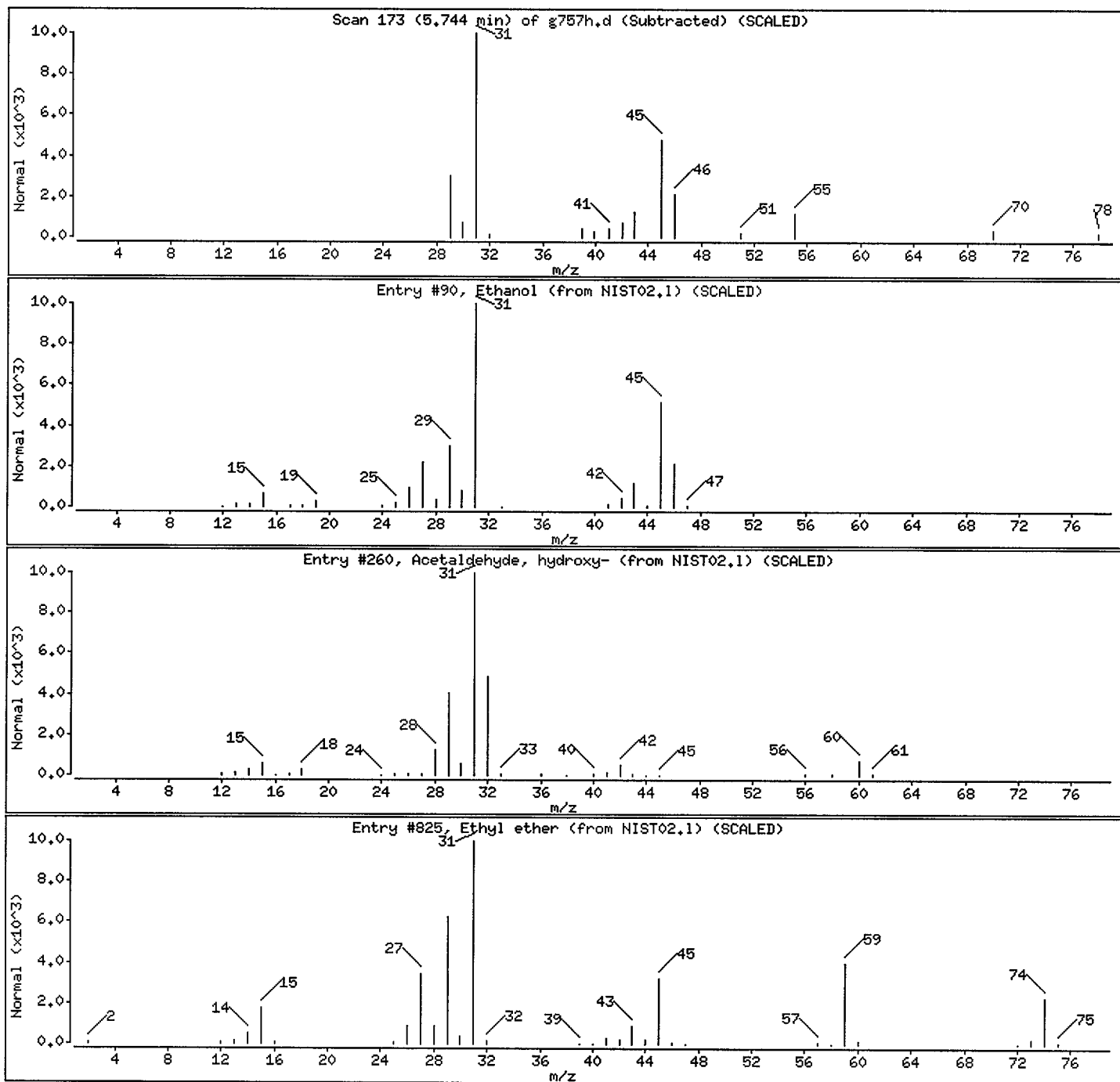
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol	64-17-5	NIST02.1	90	86	C ₂ H ₆ O	46
Acetaldehyde, hydroxy-	141-46-8	NIST02.1	260	4	C ₂ H ₄ O ₂	60
Ethyl ether	60-29-7	NIST02.1	825	4	C ₄ H ₁₀ O	74



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

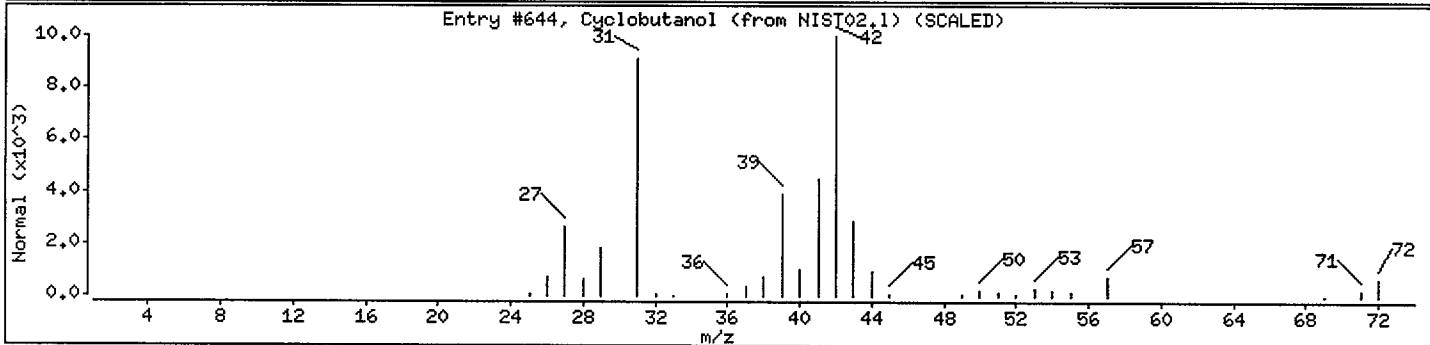
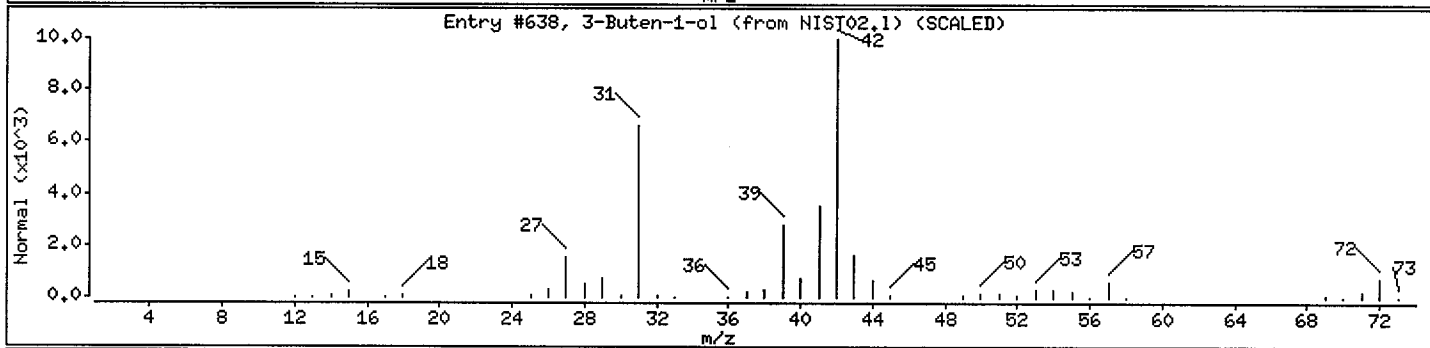
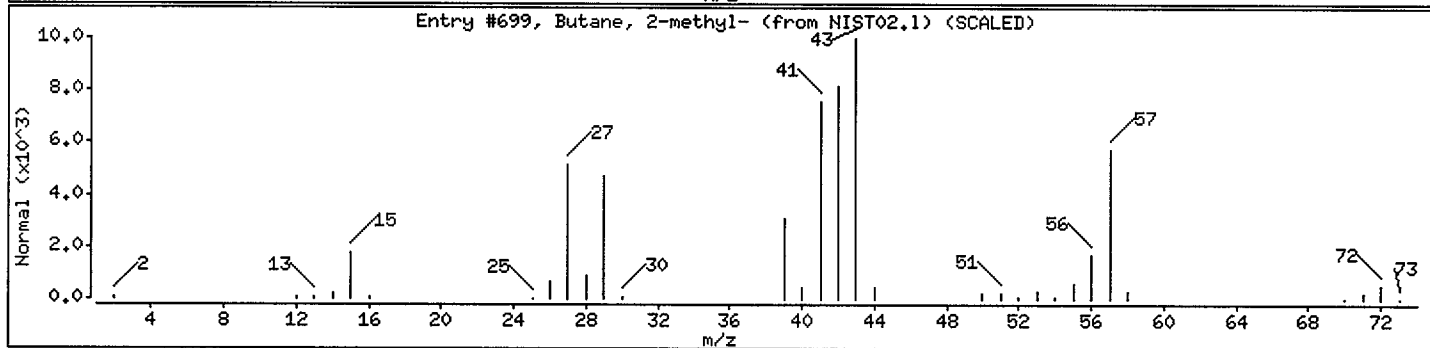
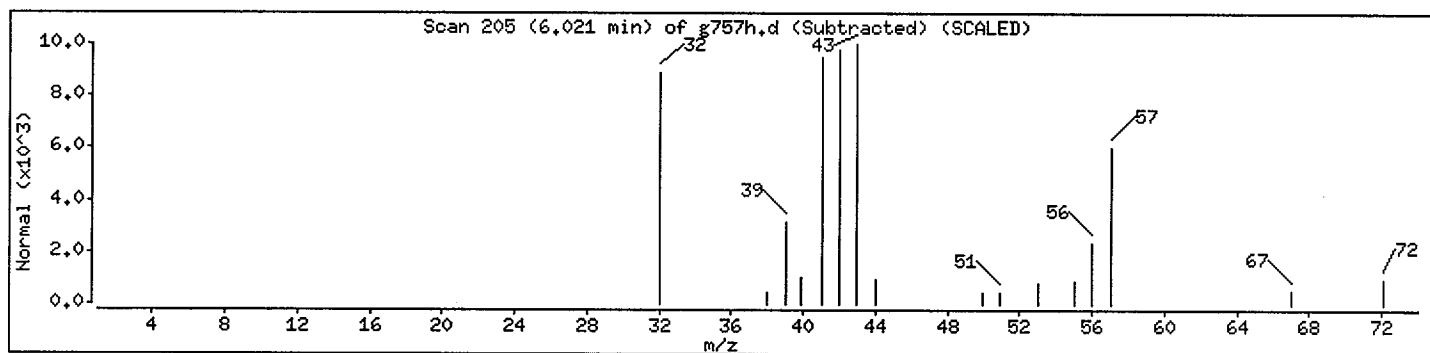
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST02.1	699	90	C5H12	72
3-Buten-1-ol	627-27-0	NIST02.1	638	38	C4H8O	72
Cyclobutanol	2919-23-5	NIST02.1	644	38	C4H8O	72



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

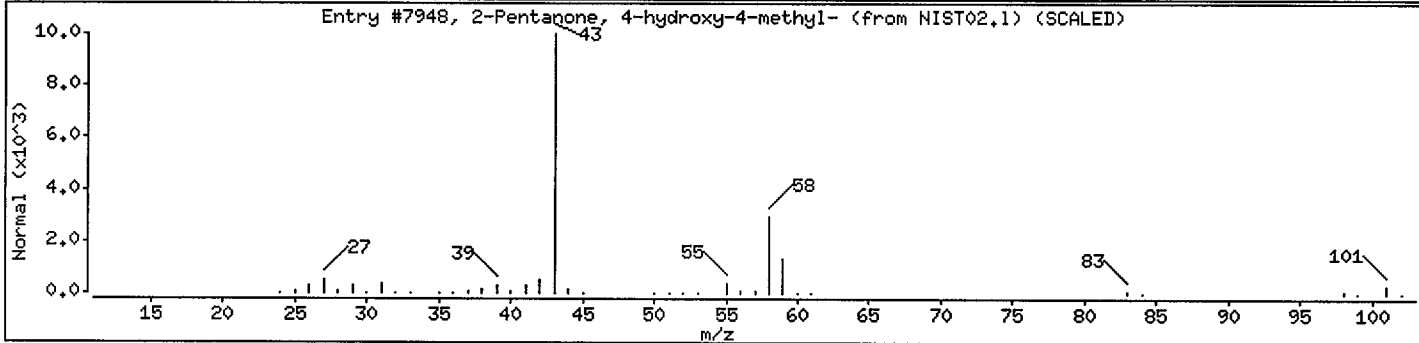
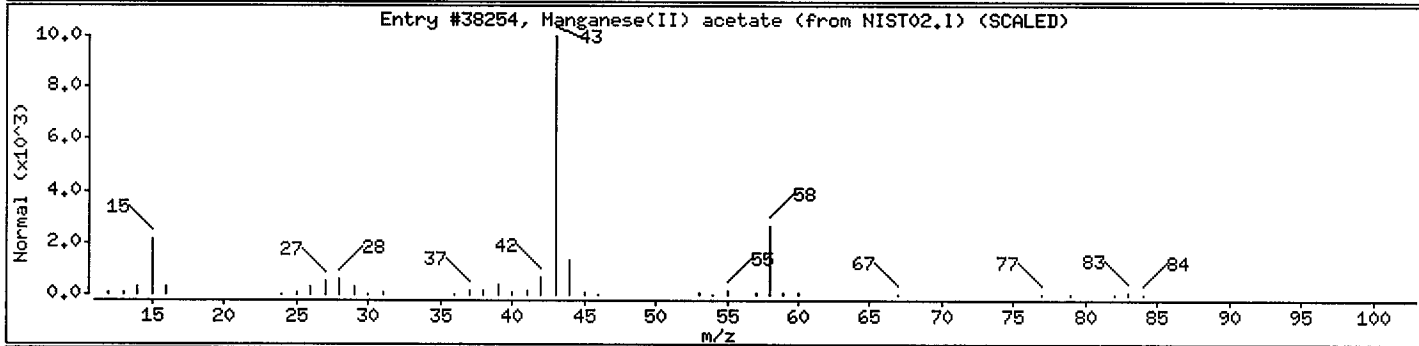
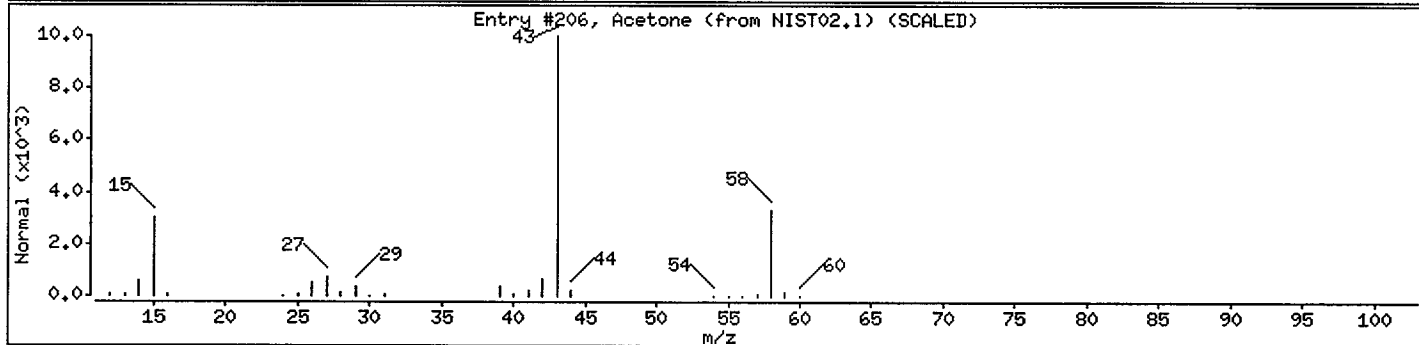
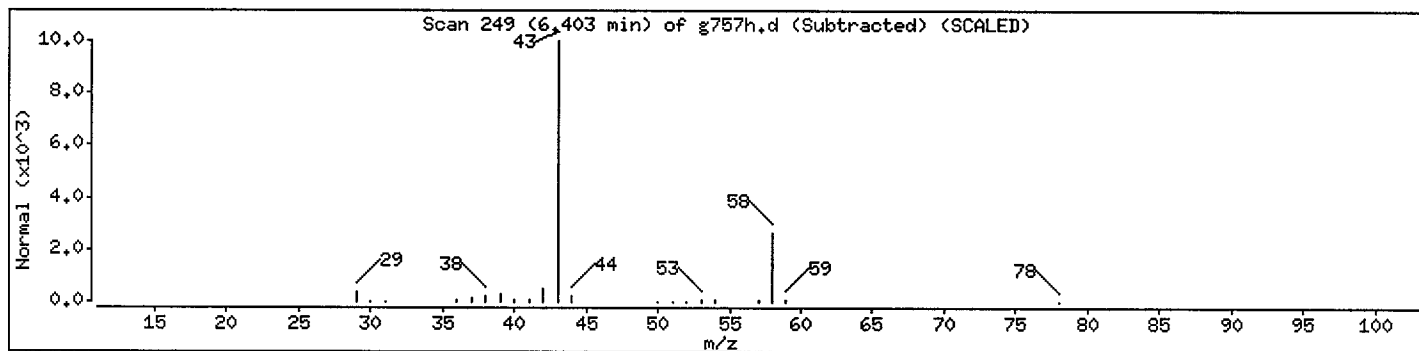
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST02.1	206	53	C ₃ H ₆ O	58
Manganese(II) acetate	6156-78-1	NIST02.1	38254	50	C ₄ H ₆ MnO ₄	173
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST02.1	7948	9	C ₆ H ₁₂ O ₂	116



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

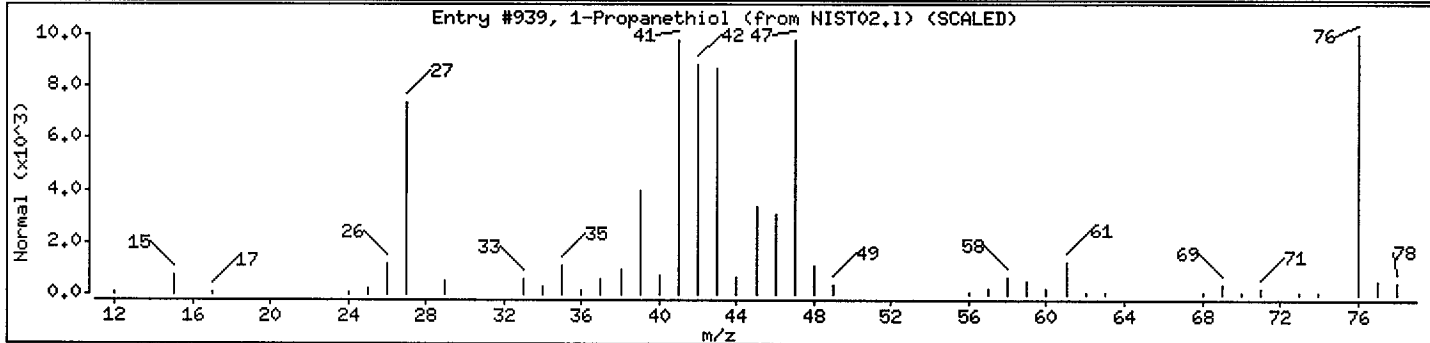
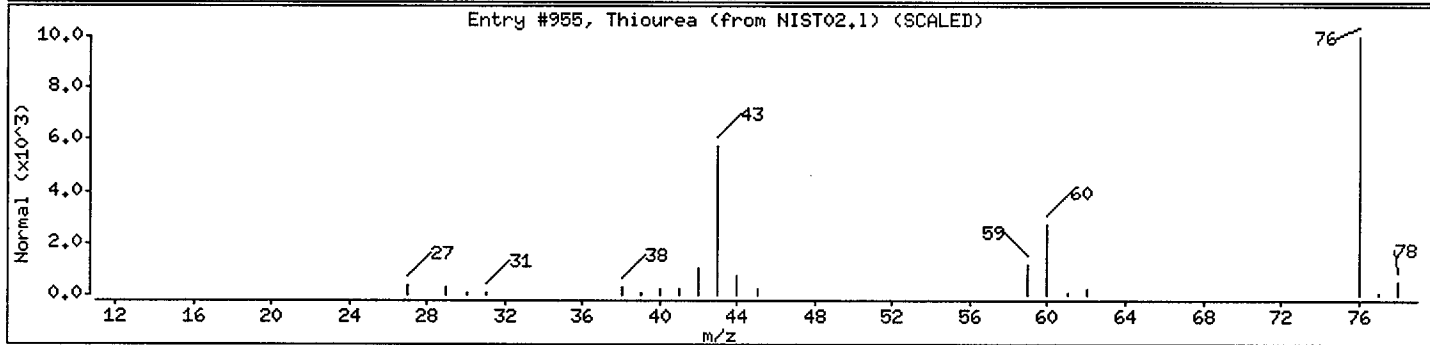
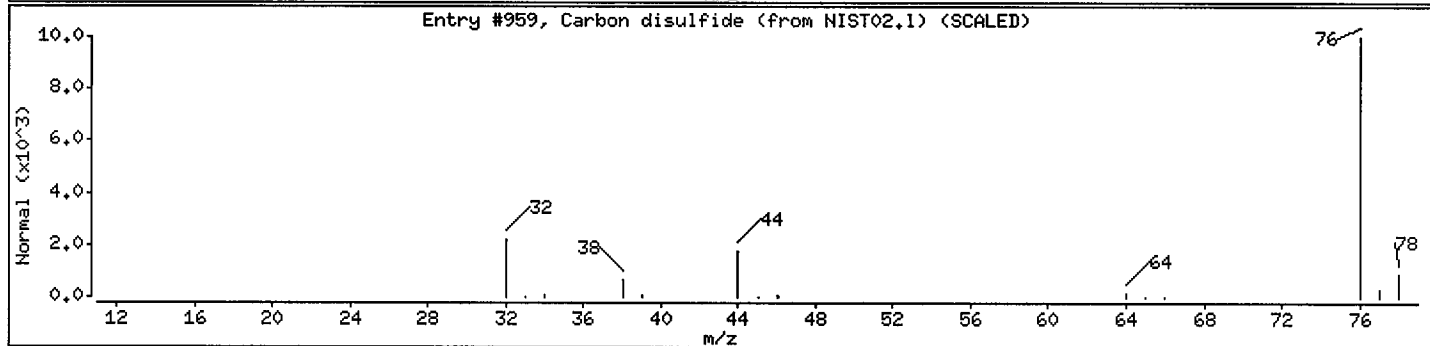
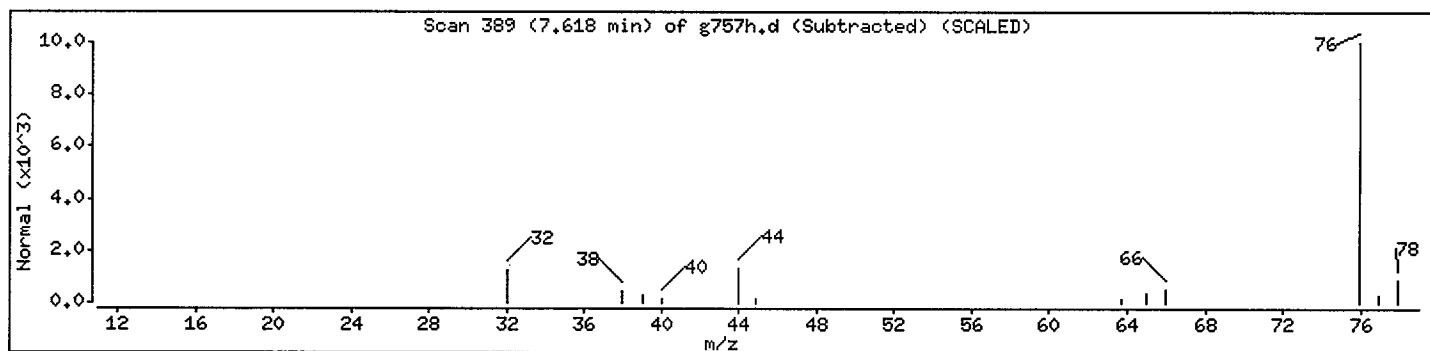
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon disulfide	75-15-0	NIST02.1	959	74	CS ₂	76
Thiourea	62-56-6	NIST02.1	955	9	CH ₄ N ₂ S	76
1-Propanethiol	107-03-9	NIST02.1	939	5	C ₃ H ₈ S	76



Data File: /var/chem/gcms/mt,i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

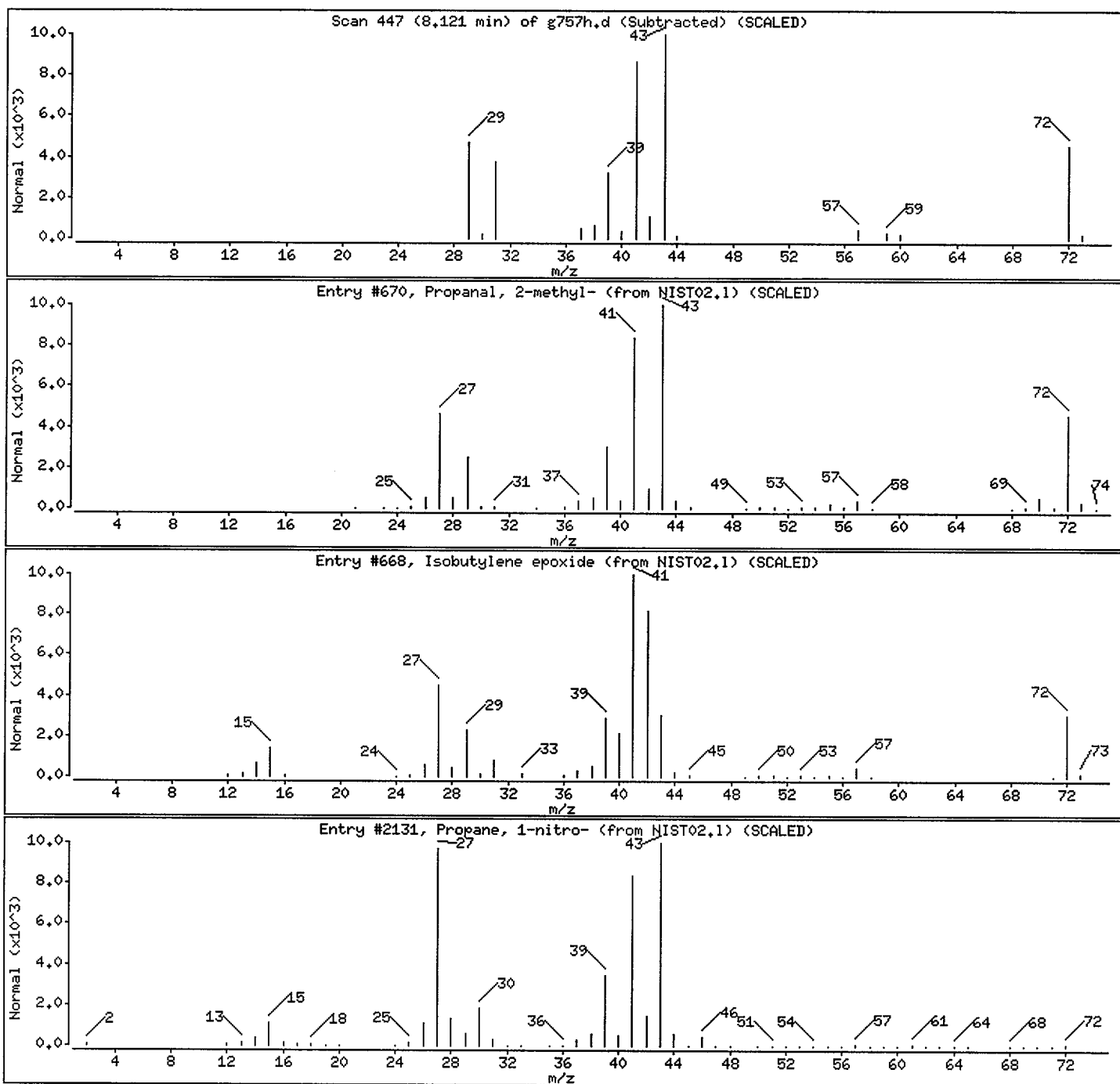
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Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propanal, 2-methyl-	78-84-2	NIST02.1	670	72	C4H8O	72
Isobutylene epoxide	558-30-5	NIST02.1	668	17	C4H8O	72
Propane, 1-nitro-	108-03-2	NIST02.1	2131	17	C3H7NO2	89



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

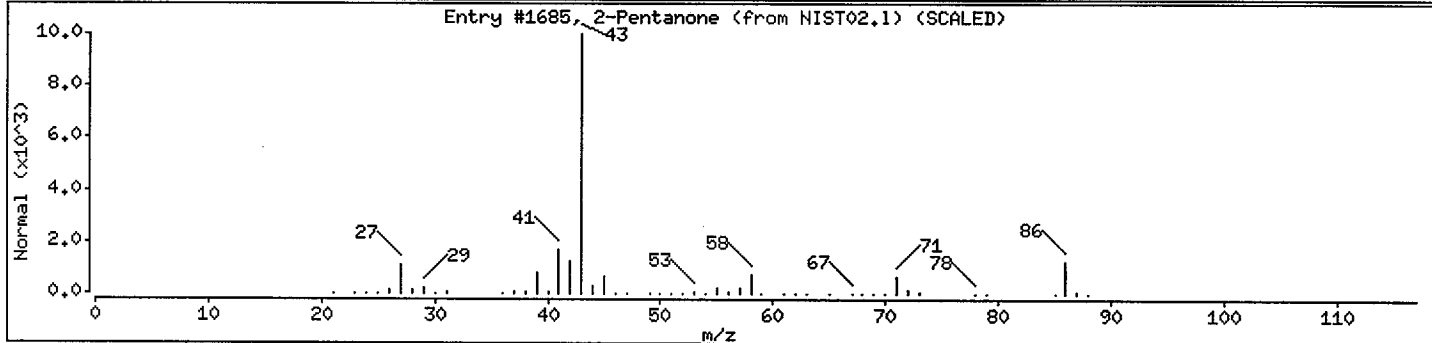
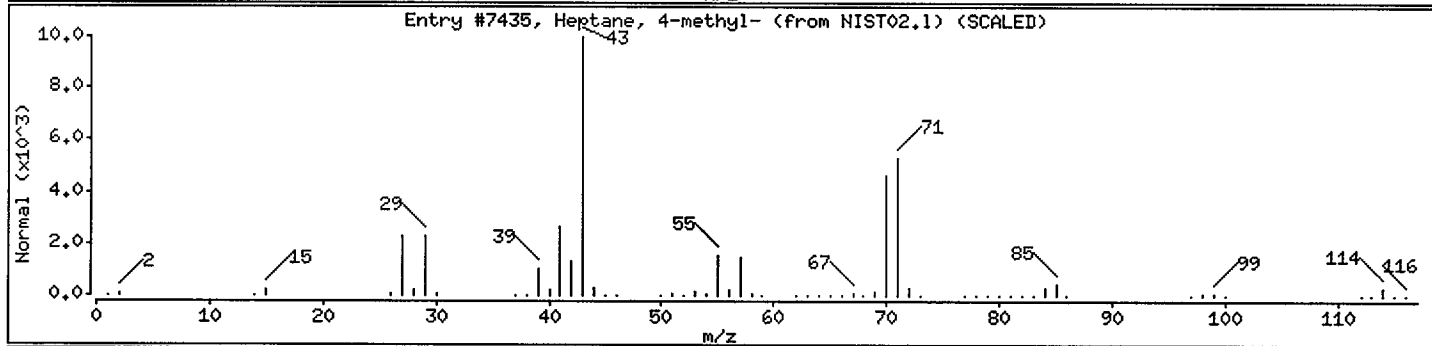
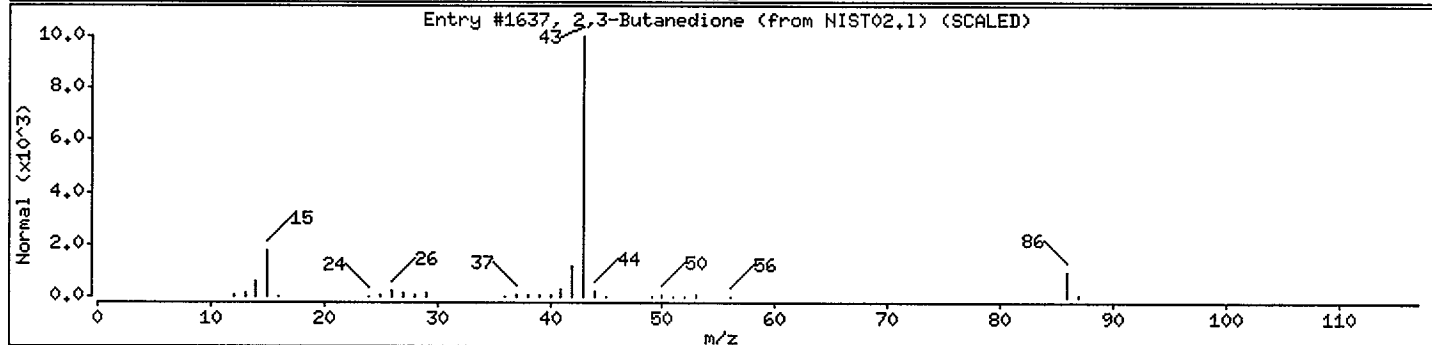
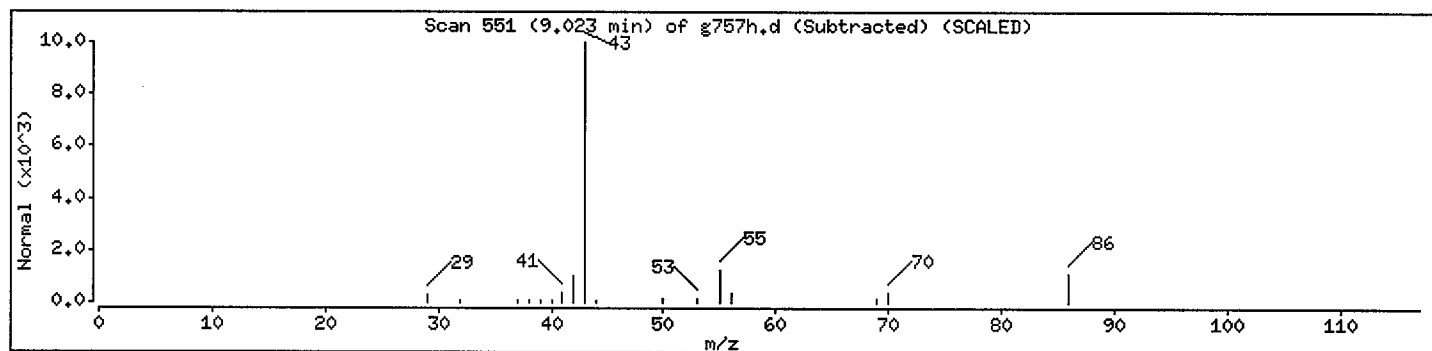
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3-Butanedione	431-03-8	NIST02.1	1637	42	C4H6O2	86
Heptane, 4-methyl-	589-53-7	NIST02.1	7435	9	C8H18	114
2-Pentanone	107-87-9	NIST02.1	1685	7	C5H10O	86



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

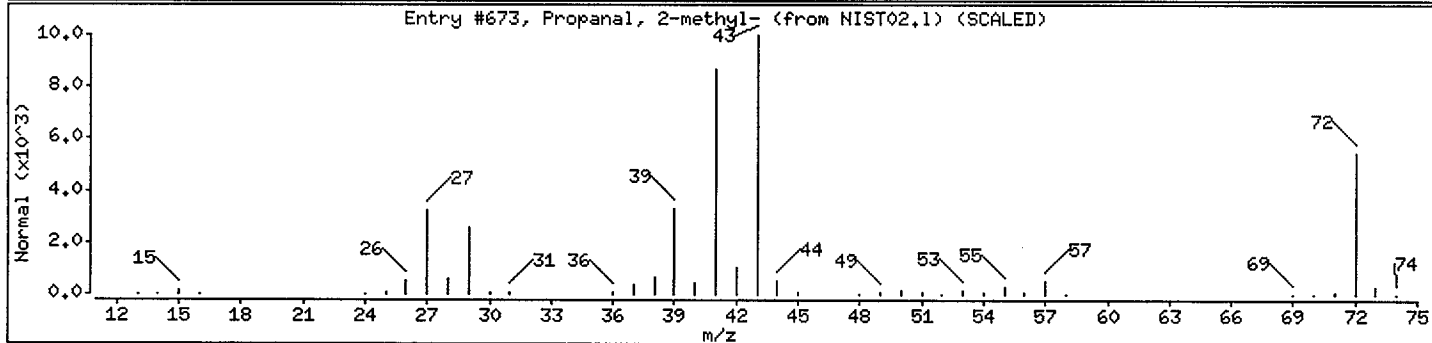
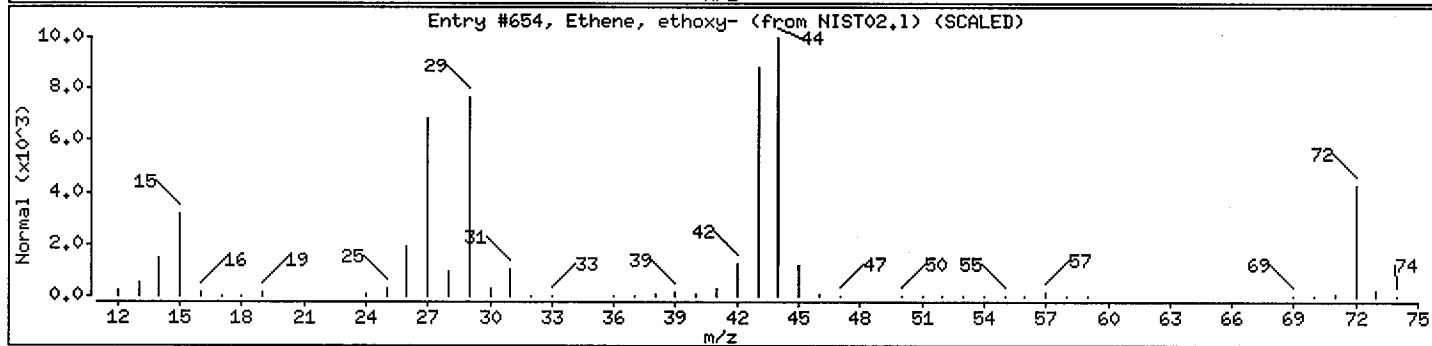
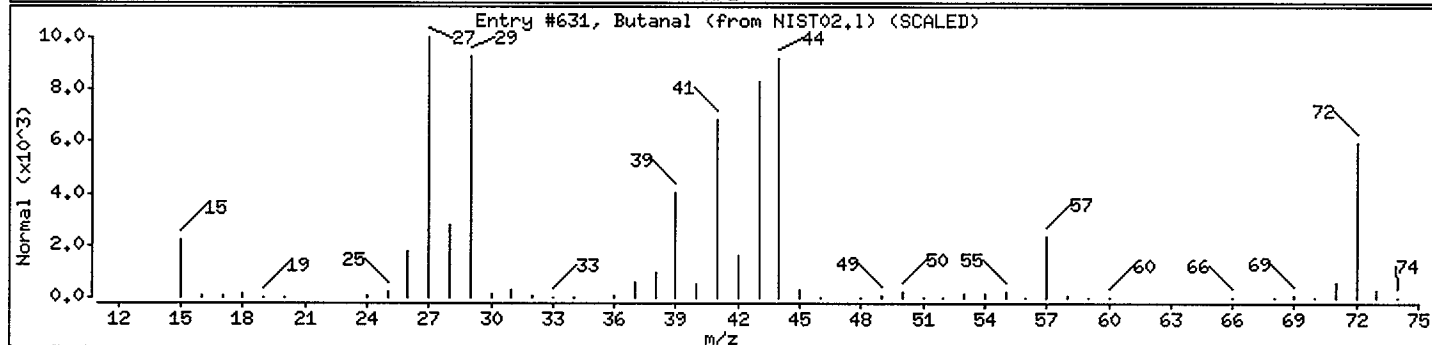
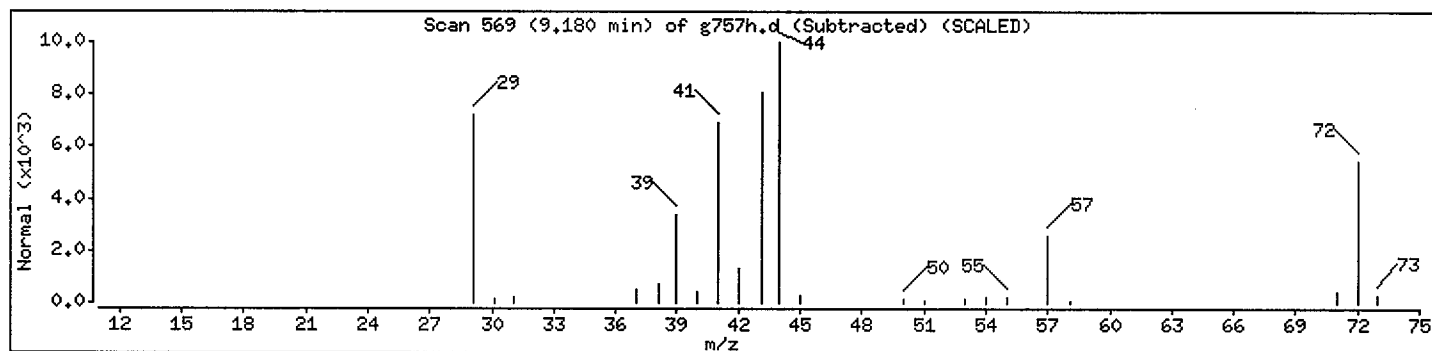
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanal	123-72-8	NIST02.1	631	95	C ₄ H ₈ O	72
Ethene, ethoxy-	109-92-2	NIST02.1	654	72	C ₄ H ₈ O	72
Propanal, 2-methyl-	78-84-2	NIST02.1	673	46	C ₄ H ₈ O	72



Data File: /var/chem/gcms/mt,i/T042005,b/g757h,d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: G757H1AA,,0,,

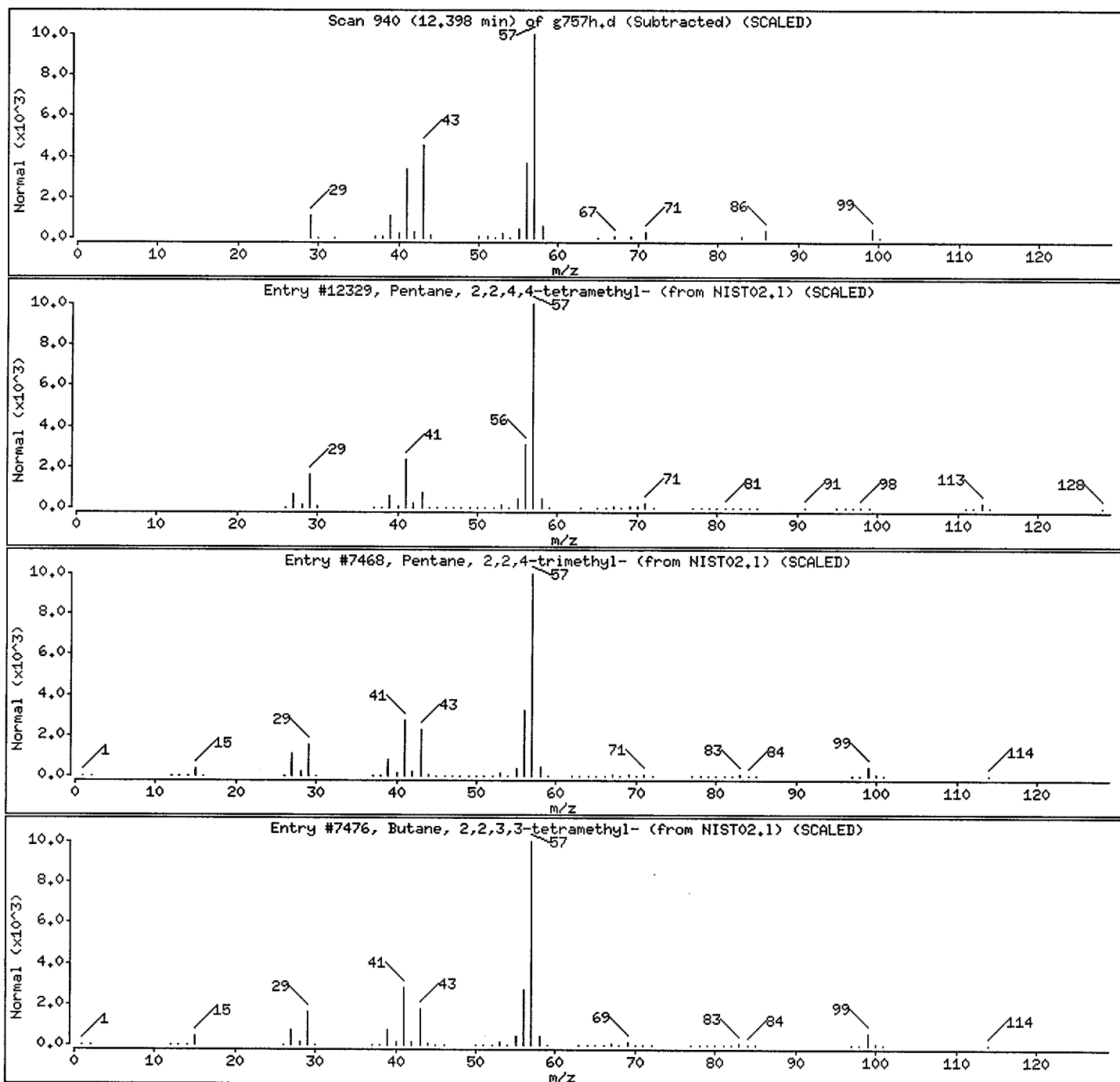
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,2,4,4-tetramethyl-	1070-87-7	NIST02.1	12329	59	C ₉ H ₂₀	128
Pentane, 2,2,4-trimethyl-	540-84-1	NIST02.1	7468	59	C ₈ H ₁₈	114
Butane, 2,2,3,3-tetramethyl-	594-82-1	NIST02.1	7476	45	C ₈ H ₁₈	114



Data File: /var/chem/gcms/mt,i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt,i

Sample Info: C757H1AA,,0,,

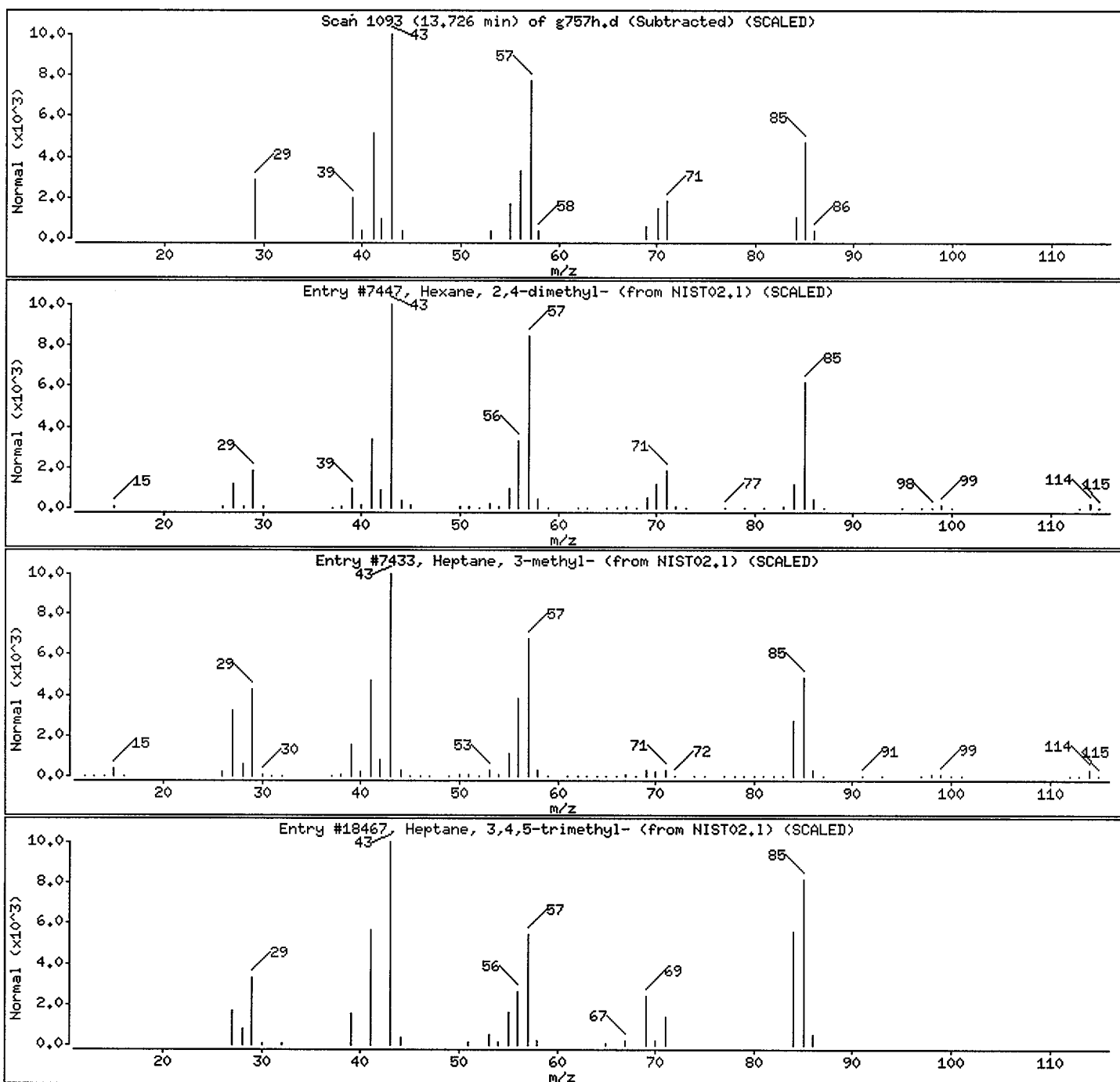
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

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Heptane, 3-methyl-	589-81-1	NIST02.1	7433	64	C8H18	114
Heptane, 3,4,5-trimethyl-	20278-89-1	NIST02.1	18467	59	C10H22	142



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

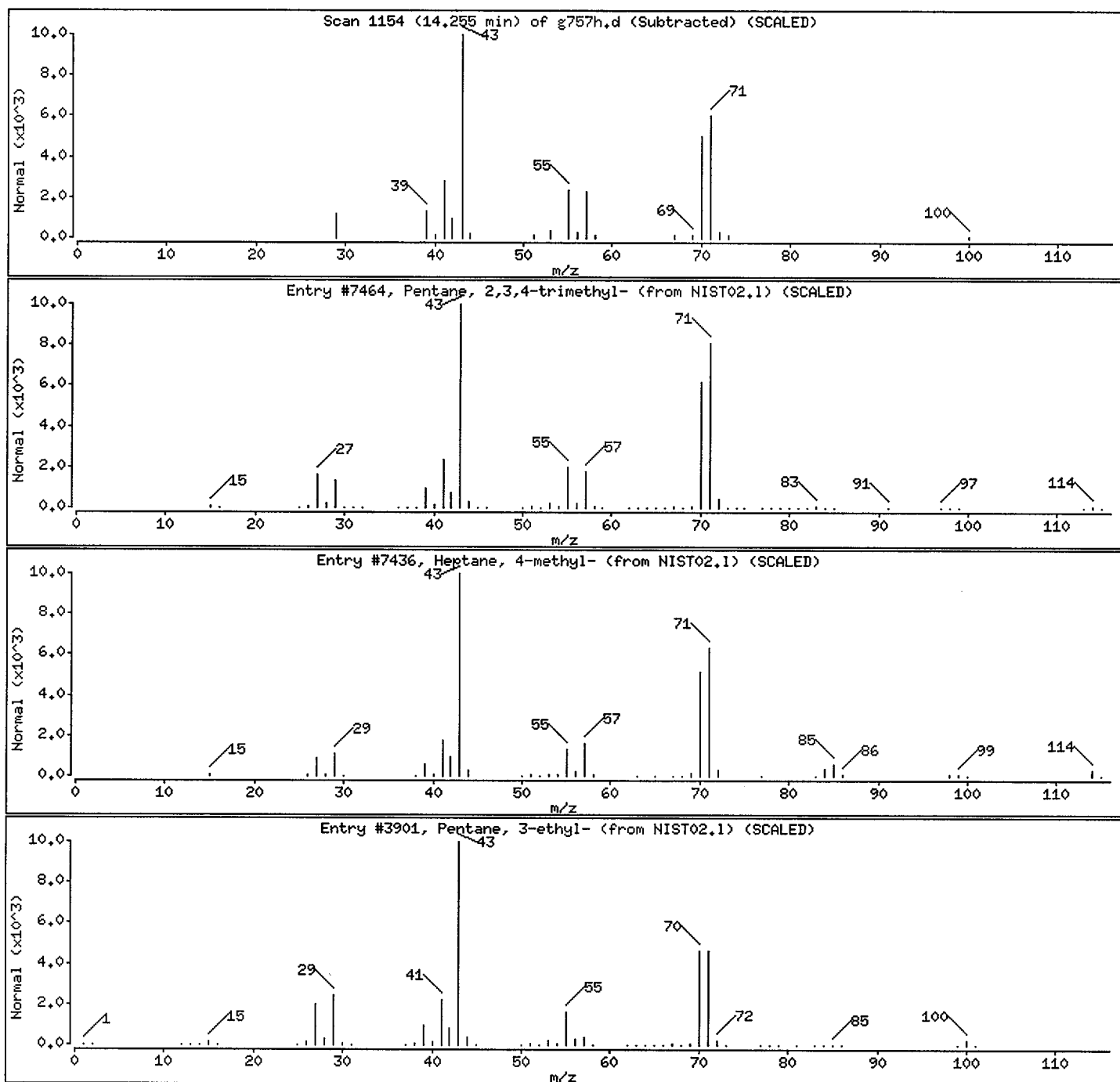
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,3,4-trimethyl-	565-75-3	NIST02.1	7464	90	C ₈ H ₁₈	114
Heptane, 4-methyl-	589-53-7	NIST02.1	7436	83	C ₈ H ₁₈	114
Pentane, 3-ethyl-	617-78-7	NIST02.1	3901	83	C ₇ H ₁₆	100



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

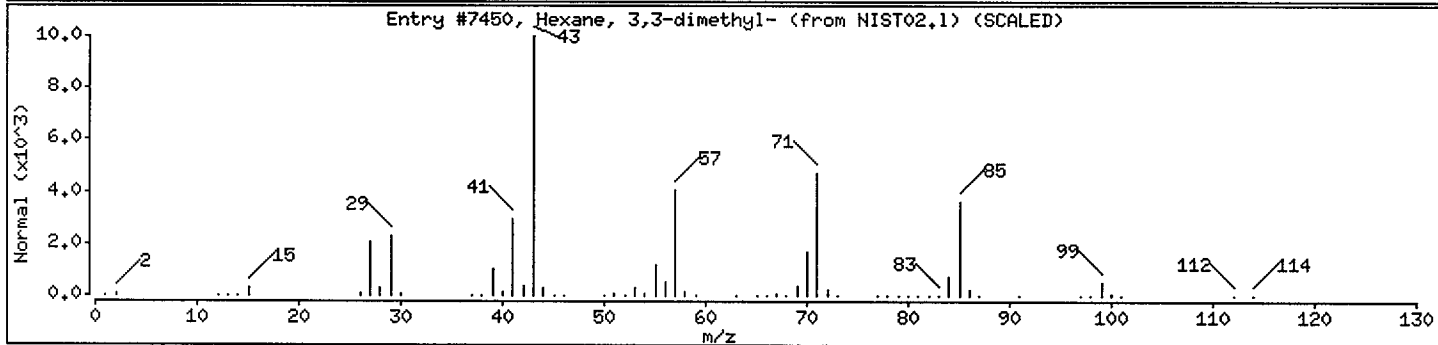
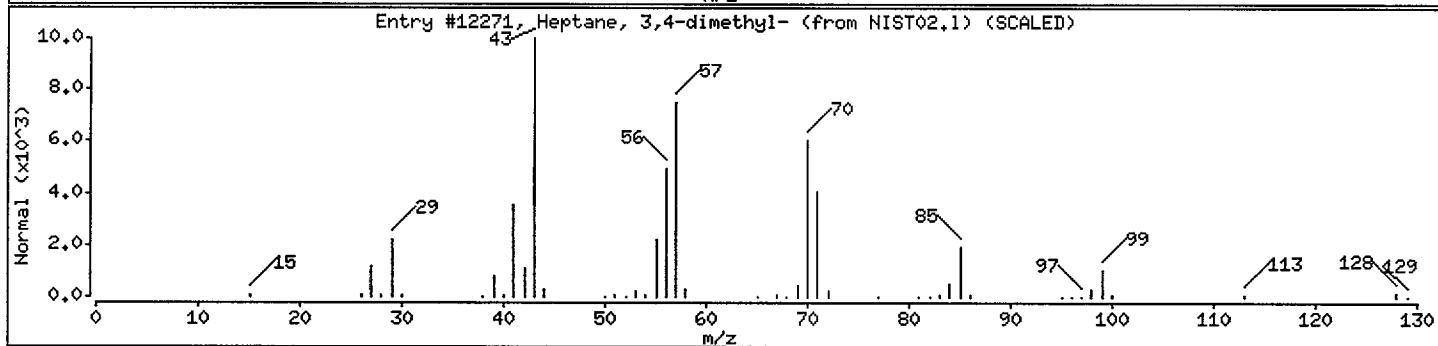
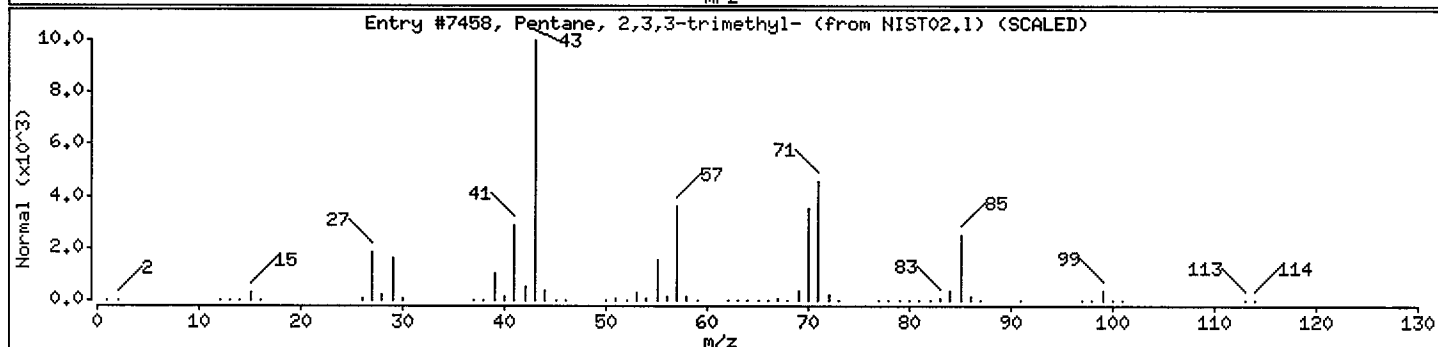
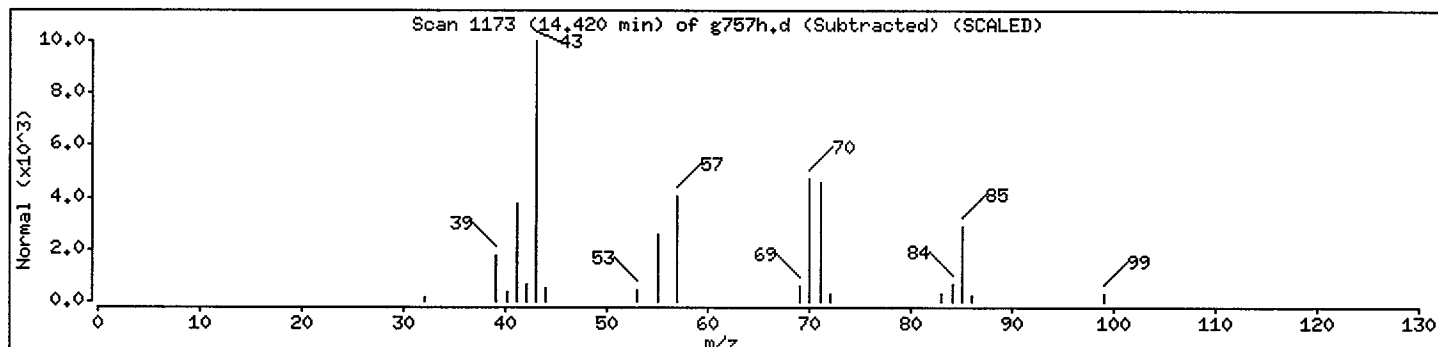
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,3,3-trimethyl-	560-21-4	NIST02.1	7458	83	C ₈ H ₁₈	114
Heptane, 3,4-dimethyl-	922-28-1	NIST02.1	12271	64	C ₉ H ₂₀	128
Hexane, 3,3-dimethyl-	563-16-6	NIST02.1	7450	59	C ₈ H ₁₈	114



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

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Instrument: mt.i

Sample Info: G757H1AA,,0,,

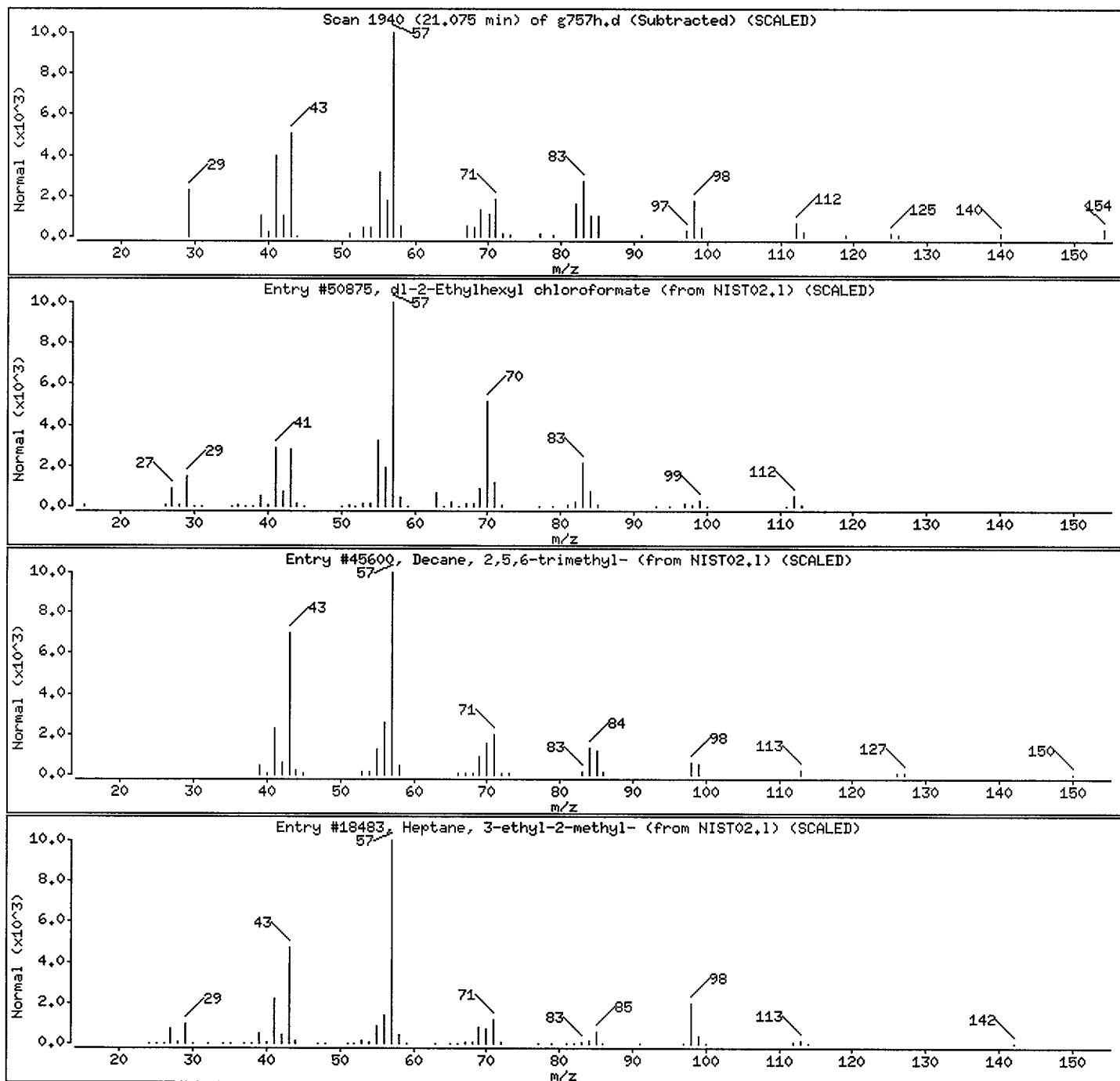
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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Decane, 2,5,6-trimethyl-	62108-23-0	NIST02.1	45600	49	C13H28	184
Heptane, 3-ethyl-2-methyl-	14676-29-0	NIST02.1	18483	43	C10H22	142



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

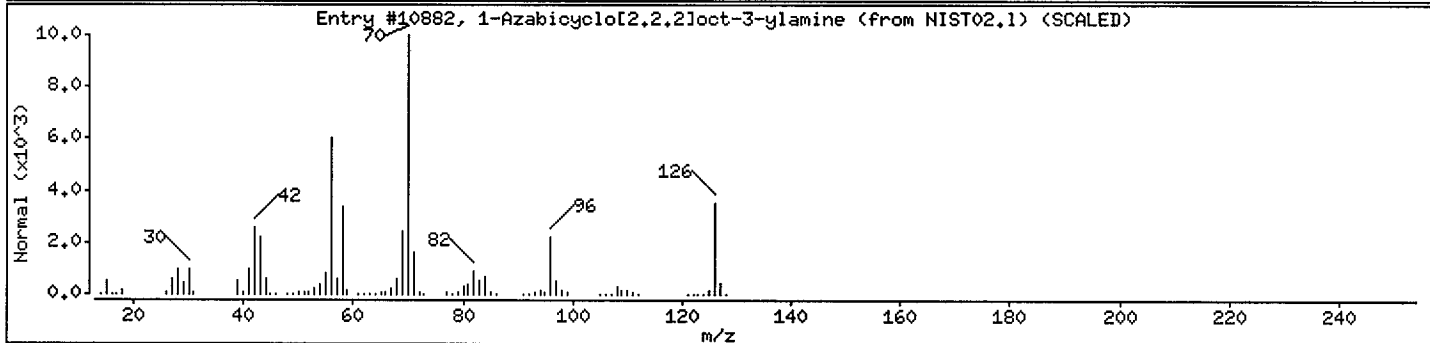
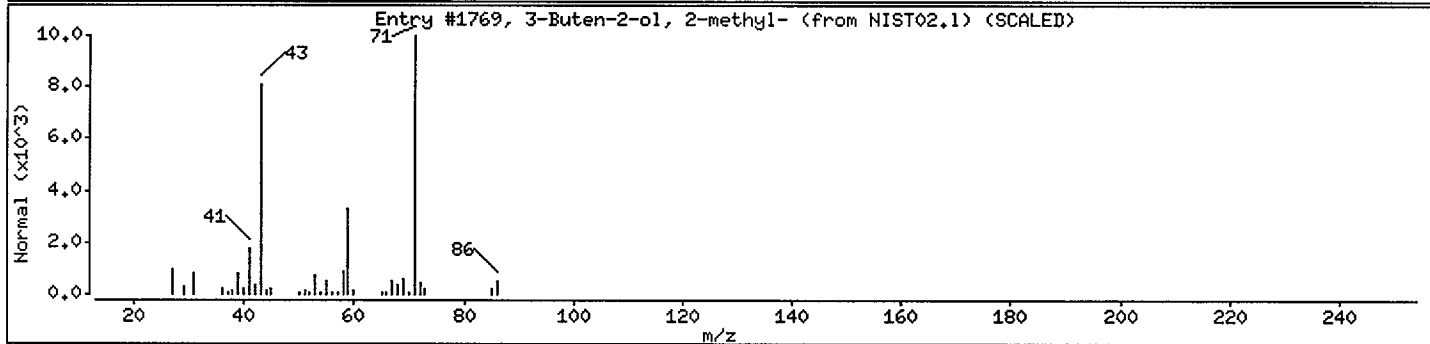
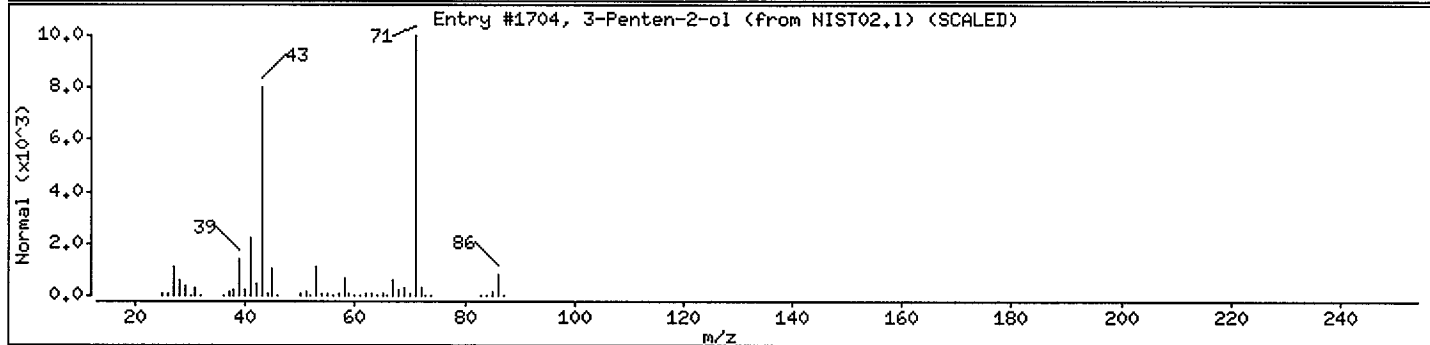
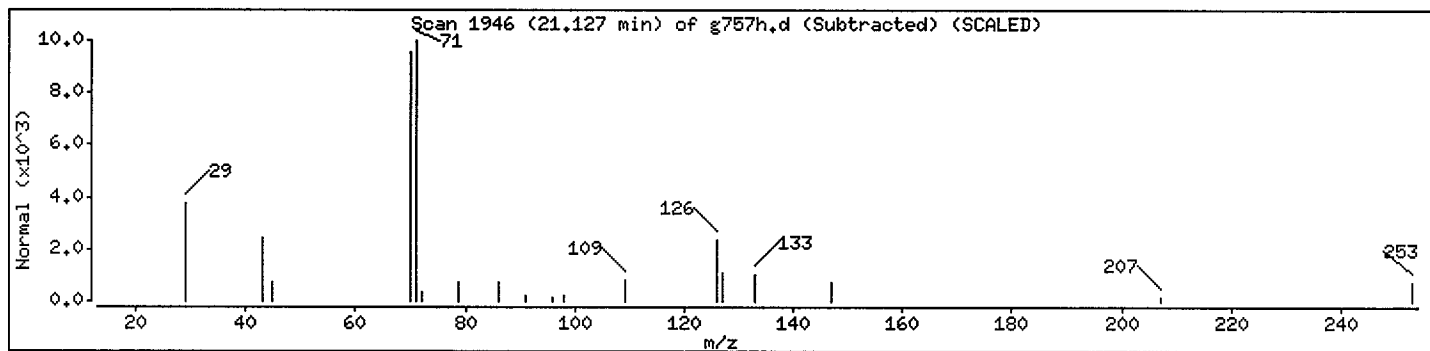
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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3-Buten-2-ol, 2-methyl-	115-18-4	NIST02.1	1769	7	C5H10O	86
1-Azabicyclo[2.2.2]oct-3-ylamine	6238-14-8	NIST02.1	10882	5	C7H14N2	126



Data File: /var/chem/gcms/mt.i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

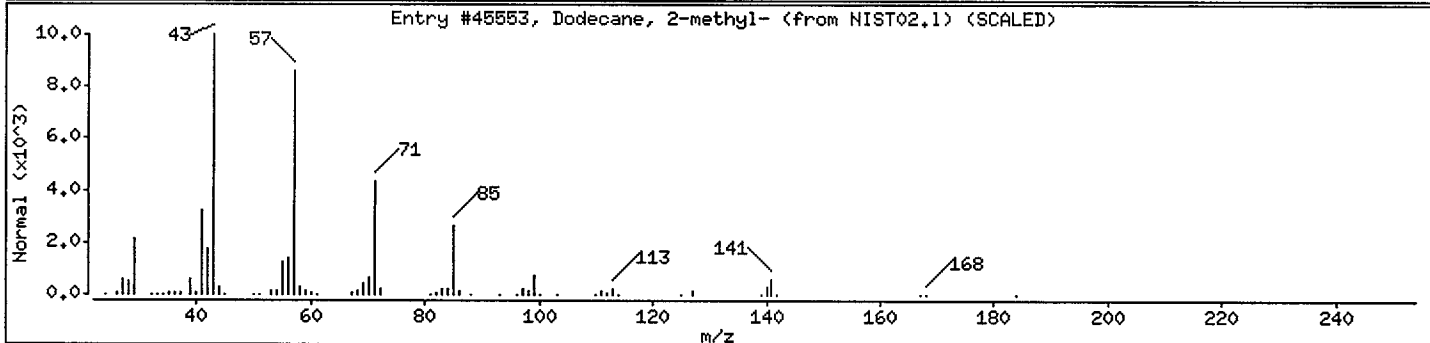
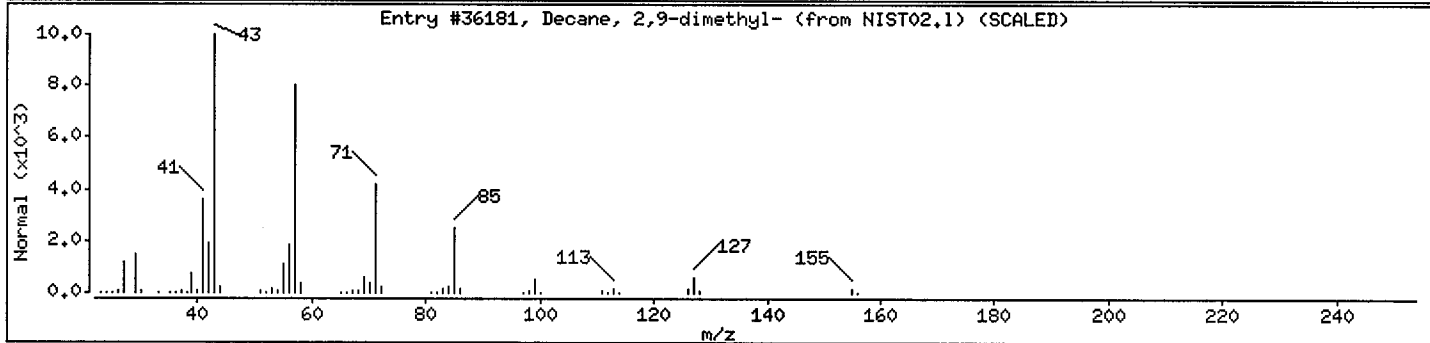
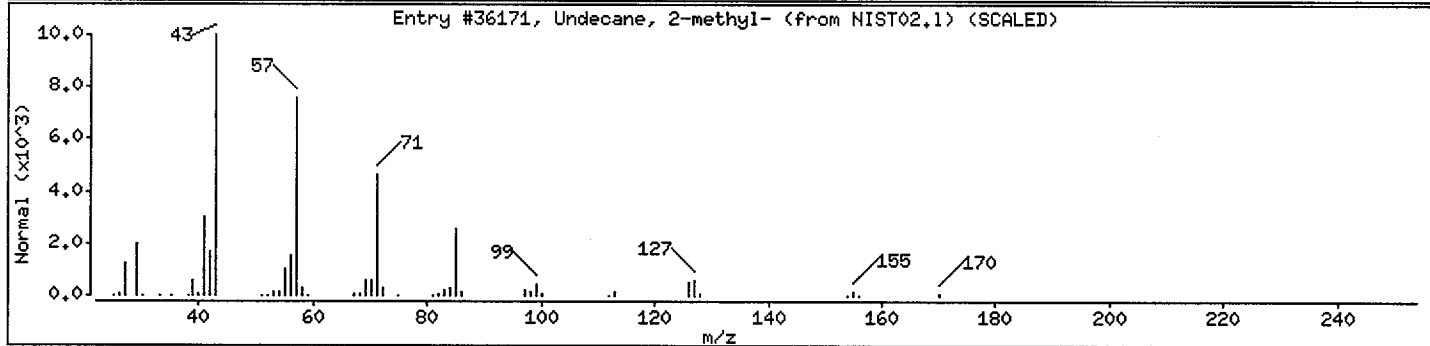
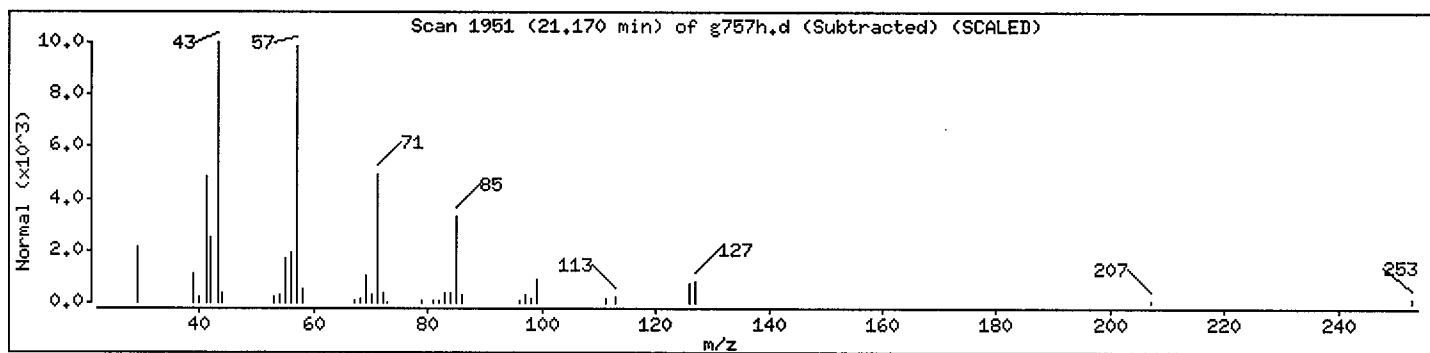
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane, 2-methyl-	7045-71-8	NIST02.1	36171	86	C ₁₂ H ₂₆	170
Decane, 2,9-dimethyl-	1002-17-1	NIST02.1	36181	83	C ₁₂ H ₂₆	170
Dodecane, 2-methyl-	1560-97-0	NIST02.1	45553	80	C ₁₃ H ₂₈	184



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

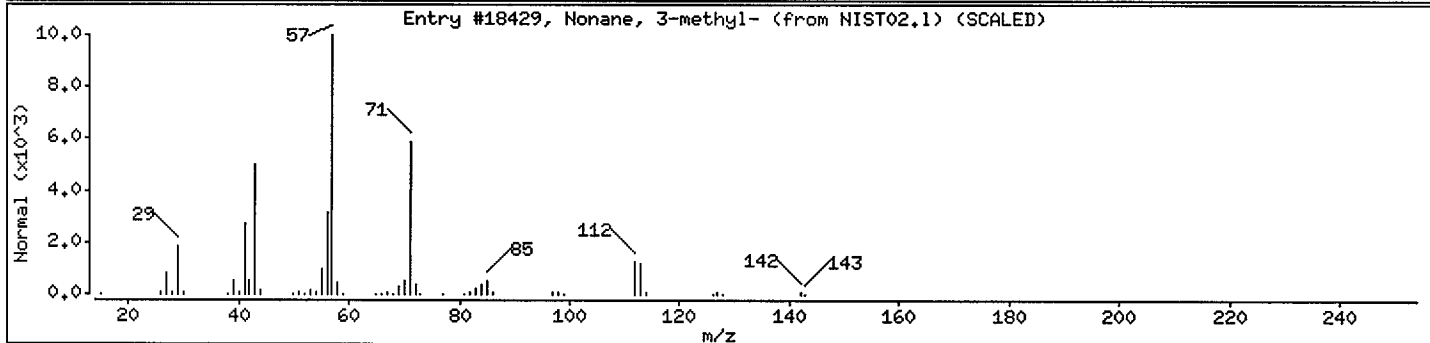
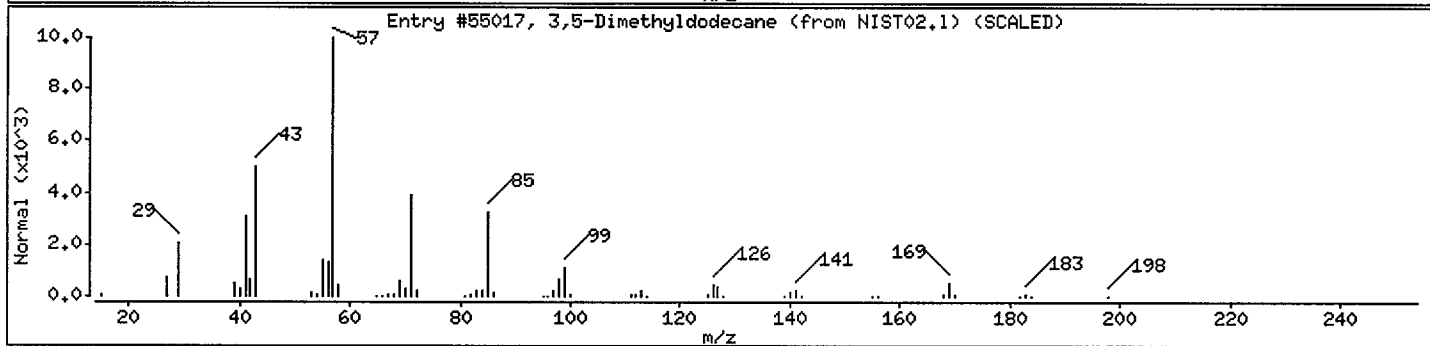
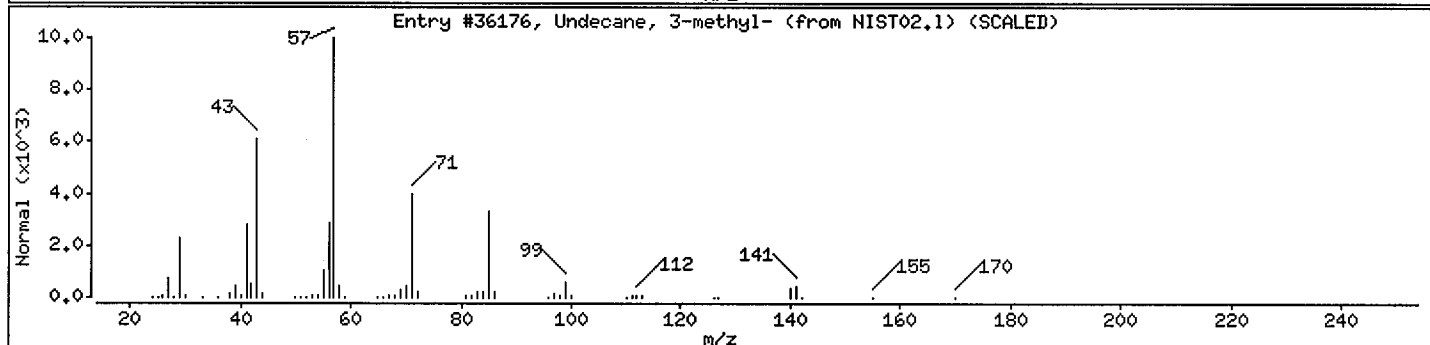
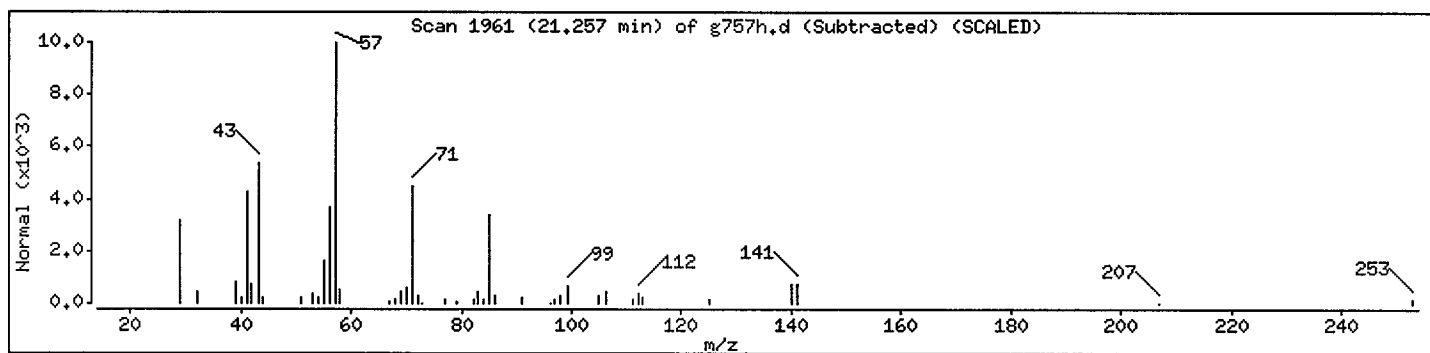
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane, 3-methyl-	1002-43-3	NIST02.1	36176	86	C ₁₂ H ₂₆	170
3,5-Dimethyldodecane	107770-99-0	NIST02.1	55017	53	C ₁₄ H ₃₀	198
Nonane, 3-methyl-	5911-04-6	NIST02.1	18429	50	C ₁₀ H ₂₂	142



Data File: /var/chem/gcms/mt.i/T042005,b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

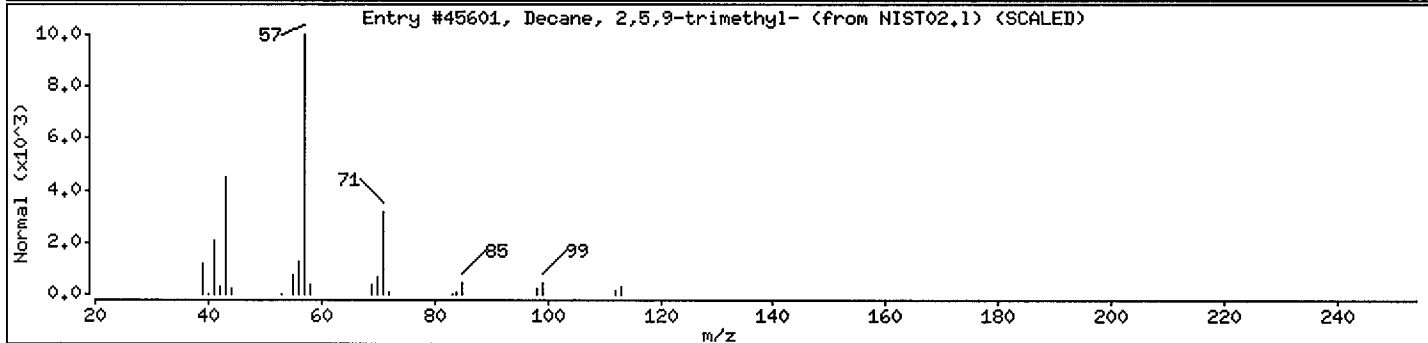
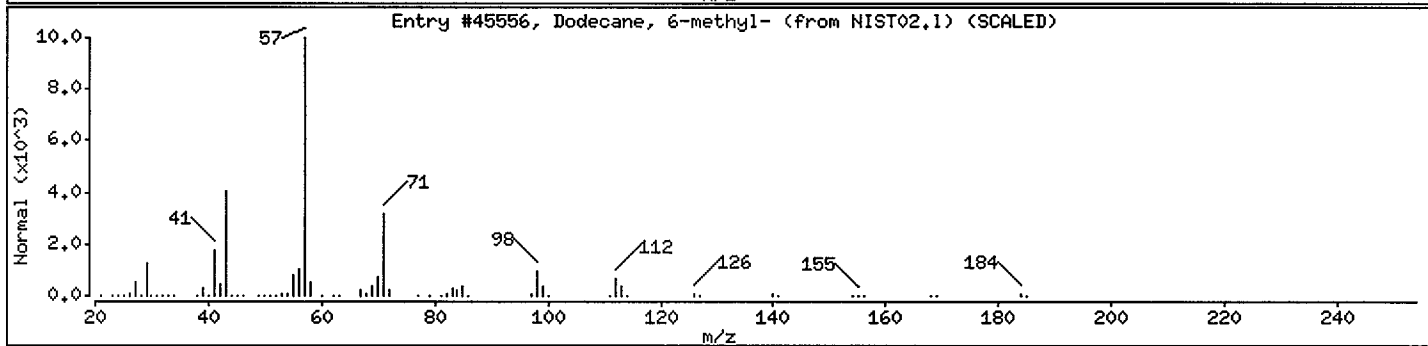
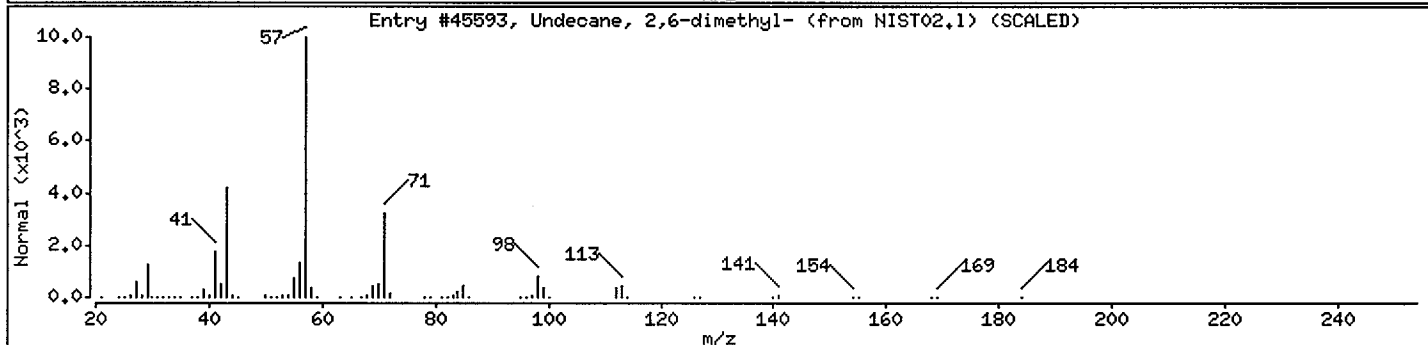
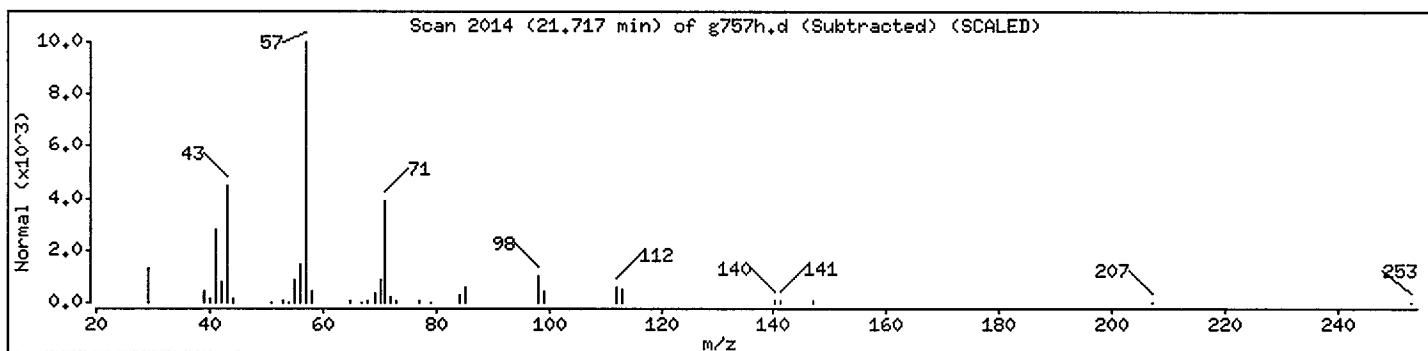
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane, 2,6-dimethyl-	17301-23-4	NIST02.1	45593	90	C ₁₃ H ₂₈	184
Dodecane, 6-methyl-	6044-71-9	NIST02.1	45556	90	C ₁₃ H ₂₈	184
Decane, 2,5,9-trimethyl-	62108-22-9	NIST02.1	45601	72	C ₁₃ H ₂₈	184



Data File: /var/chem/gcms/mt.i/T042005.b/g757h.d

Date : 21-APR-2005 08:41

Client ID: SV-05-01

Instrument: mt.i

Sample Info: G757H1AA,,0,,

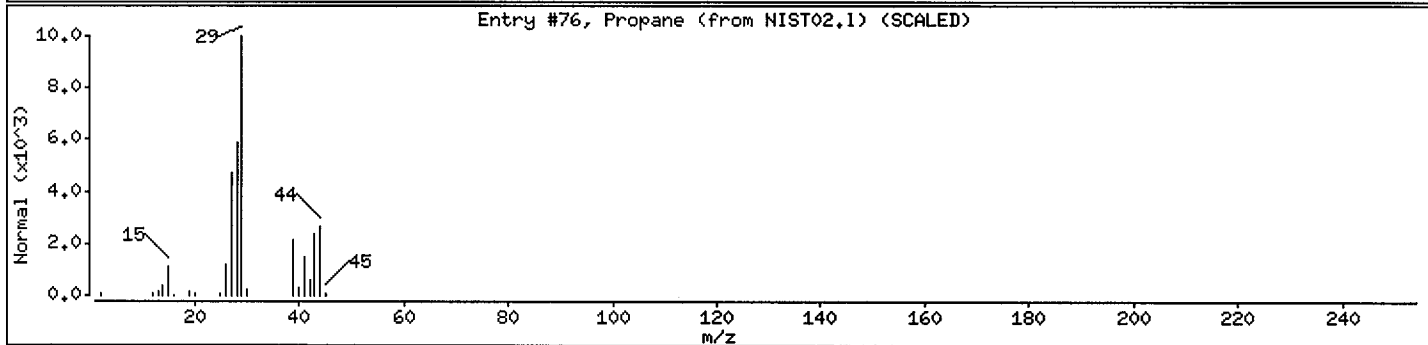
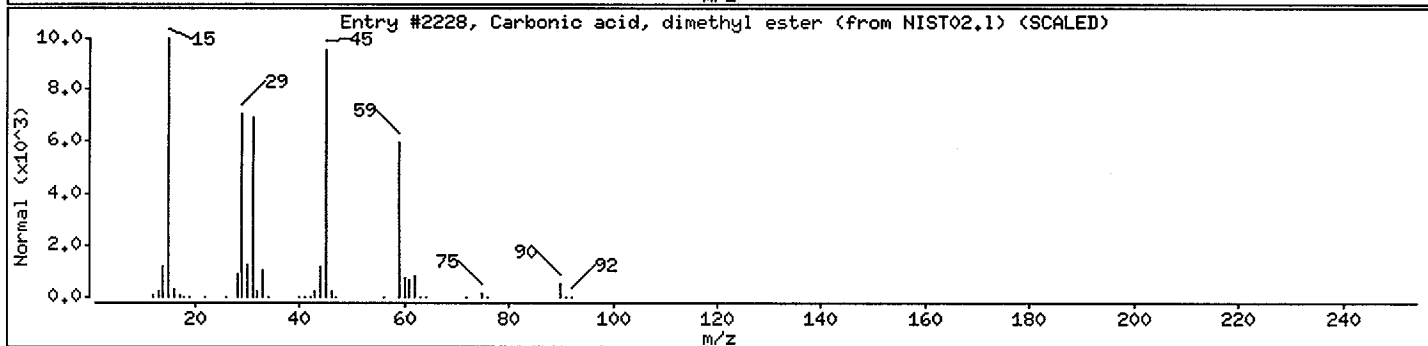
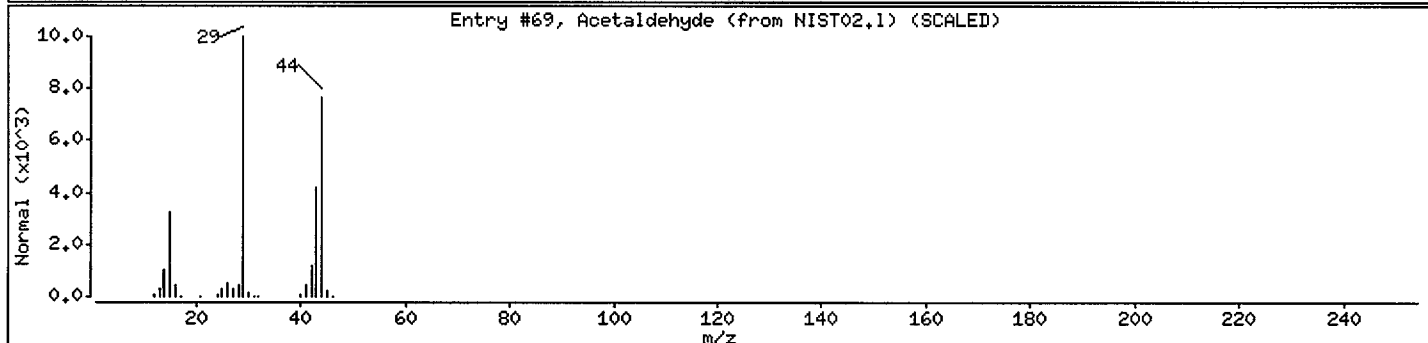
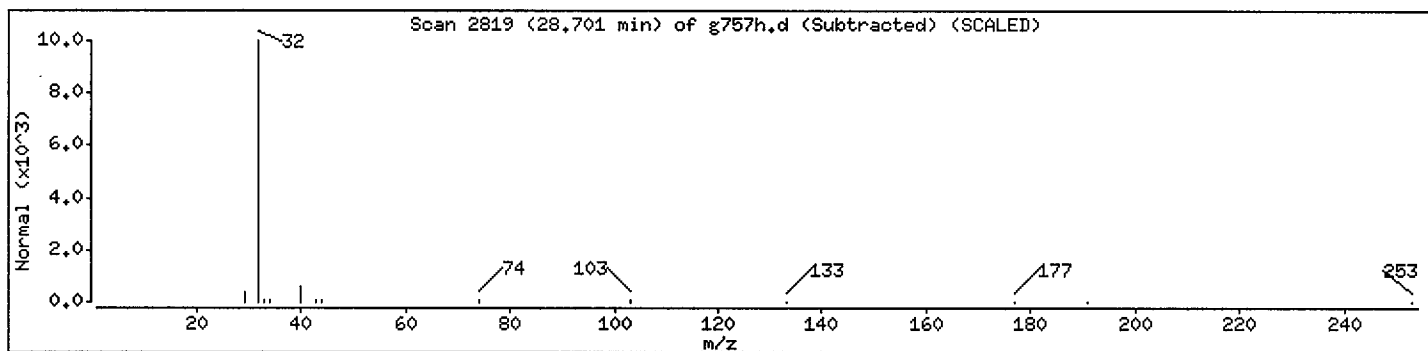
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetaldehyde	75-07-0	NIST02.1	69	2	C ₂ H ₄ O	44
Carbonic acid, dimethyl ester	616-38-6	NIST02.1	2228	2	C ₃ H ₆ O ₃	90
Propane	74-98-6	NIST02.1	76	2	C ₃ H ₈	44



URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004

Work Order # G757K1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/20/05

Analysis Date... 4/21/05

Prep Batch #.....: 5111152

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	0.65	0.50	1.9	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	0.21	0.20	1.2	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	0.71	0.20	1.7	0.48
Dichlorodifluoromethane	2.0	0.20	9.9	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	0.34	0.20	1.9	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	3.3	0.20	16	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	0.44	0.20	1.7	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	ND	0.20	ND	1.4

URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004

Work Order # G757K1AA

Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

TENTATIVELY IDENTIFIED COMPOUNDS	RESULT	UNITS
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
Client Sample ID: SV-05-03
GC/MS Volatiles

Lot-Sample # H5D120102 - 004

Work Order # G757K1AA

Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	105	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	103	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 12:39

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/g757k.d
 Lab Smp Id: G757K1AA Client Smp ID: SV-05-03
 Inj Date : 21-APR-2005 09:28
 Operator : 7126 Inst ID: mt.i
 Smp Info : G757K1AA,,0,,
 Misc Info : T042005,LA,bridge.sub,,,1115 ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 12:22 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb (v/v)) (ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.114	10.111	(1.000)	119605	10.0000	
* 2 1,4-Difluorobenzene	114	12.179	12.185	(1.000)	384478	10.0000	
* 3 Chlorobenzene-d5	117	16.708	16.714	(1.000)	344478	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.086	11.092	(0.910)	82681	10.5284	10.53
\$ 5 Toluene-d8	98	14.695	14.701	(0.880)	311044	9.57525	9.575
\$ 6 4-Bromofluorobenzene	95	18.279	18.284	(1.094)	243655	10.3027	10.30
8 Dichlorodifluoromethane	85	4.483	4.481	(0.443)	105431	1.99586	1.996 (H)
14 n-Butane	43	5.030	5.036	(0.497)	24666	0.70939	0.7094
17 Trichlorofluoromethane	101	6.271	6.268	(0.620)	16235	0.34070	0.3407
21 Pentane	57	6.522	6.528	(0.645)	3558	0.65021	0.6502 (M)
25 1,1,2-Trichlorotrifluoroethane	101	7.260	7.266	(0.718)	4015	0.09645	0.09645
26 Methylene Chloride	84	7.433	7.430	(0.735)	5379	0.29015	0.2901
34 Hexane	56	9.359	9.374	(0.925)	2959	0.18905	0.1890
36 Chloroform	83	10.114	10.120	(1.000)	120941	3.25119	3.251
39 Benzene	78	11.685	11.690	(0.959)	5934	0.14495	0.1449
42 Carbon Tetrachloride	117	11.711	11.716	(1.158)	2554	0.07277	0.07277
43 Heptane	43	12.734	12.740	(1.046)	5708	0.17889	0.1789 (M)
51 Toluene	91	14.799	14.805	(0.886)	18172	0.43997	0.4400
54 Octane	85	15.450	15.456	(0.925)	1595	0.10984	0.1098
59 Ethylbenzene	91	17.029	17.035	(1.019)	2909	0.05840	0.05840
60 m-Xylene (For p-)	91	17.185	17.191	(1.029)	6480	0.17277	0.1728

Revised for (M)
 4/20/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 12:39

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
						(ppb (v/v))	(ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
62 Nonane	57	17.584	17.590	(1.052)	2430	0.08255	0.08255
64 o-Xylene	91	17.706	17.712	(1.060)	2806	0.07417	0.07417
72 Decane	57	19.207	19.213	(1.150)	7382	0.21410	0.2141
73 1,2,4-Trimethylbenzene	105	19.354	19.360	(1.158)	3755	0.09091	0.09090
76 1,4-Dichlorobenzene	146	19.701	19.698	(1.179)	1732	0.05511	0.05511
78 Undecane	57	20.456	20.462	(1.224)	5792	0.16760	0.1676
79 Dodecane	57	21.567	21.564	(1.291)	14076	0.52021	0.5202

QC Flag Legend

M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 10:22

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T042005.b/g757k.d
 Lab Smp Id: G757K1AA Client Smp ID: SV-05-03
 Inj Date : 21-APR-2005 09:28
 Operator : 7126 Inst ID: mt.i
 Smp Info : G757K1AA,,0,,
 Misc Info : T042005,LA,bridge.sub,,,1115 ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 10:17 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
*****	****	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.114	10.111	(1.000)	119605	10.0000	
* 2 1,4-Difluorobenzene	114	12.179	12.185	(1.000)	384478	10.0000	
* 3 Chlorobenzene-d5	117	16.708	16.714	(1.000)	344478	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.086	11.092	(0.910)	82681	10.5285	10.53
\$ 5 Toluene-d8	98	14.695	14.701	(0.880)	311044	9.57525	9.575
\$ 6 4-Bromofluorobenzene	95	18.279	18.284	(1.094)	243655	10.3027	10.30
8 Dichlorodifluoromethane	85	4.483	4.481	(0.443)	105431	1.99585	1.996
14 n-Butane	43	5.030	5.036	(0.497)	24666	0.70940	0.7094
17 Trichlorofluoromethane	101	6.271	6.268	(0.620)	16235	0.34071	0.3407
21 Pentane	57	6.453	6.528	(0.638)	37863	6.91939	6.919 (M)
25 1,1,2-Trichlorotrifluoroethane	101	7.260	7.266	(0.718)	4015	0.09646	0.09646
26 Methylene Chloride	84	7.433	7.430	(0.735)	5379	0.29016	0.2902
34 Hexane	56	9.359	9.374	(0.925)	2959	0.18905	0.1890
36 Chloroform	83	10.114	10.120	(1.000)	120941	3.25118	3.251
39 Benzene	78	11.685	11.690	(0.959)	5934	0.14497	0.1450
42 Carbon Tetrachloride	117	11.711	11.716	(1.158)	2554	0.07277	0.07277
43 Heptane	43	12.682	12.740	(1.041)	20555	0.64422	0.6442 (M)
51 Toluene	91	14.799	14.805	(0.886)	18172	0.43997	0.4400
54 Octane	85	15.450	15.456	(0.925)	1595	0.10990	0.1099
59 Ethylbenzene	91	17.029	17.035	(1.019)	2909	0.05840	0.05840
60 m-Xylene (For p-)	91	17.185	17.191	(1.029)	6480	0.17279	0.1728

4/21/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 10:22

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
62 Nonane	57	17.584	17.590	(1.052)	2430	0.08257	0.08257
64 o-Xylene	91	17.706	17.712	(1.060)	2806	0.07417	0.07417
72 Decane	57	19.207	19.213	(1.150)	7382	0.21413	0.2141
73 1,2,4-Trimethylbenzene	105	19.354	19.360	(1.158)	3755	0.09092	0.09092
74 1,3-Dichlorobenzene	146	19.701	19.620	(1.179)	1732	0.05545	~~0.05545~~
76 1,4-Dichlorobenzene	146	19.701	19.698	(1.179)	1732	0.05513	0.05513
78 Undecane	57	20.456	20.462	(1.224)	5792	0.16763	0.1676
79 Dodecane	57	21.567	21.564	(1.291)	14076	0.52024	0.5202

4/24/05

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 10:22

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i	Calibration Date: 20-APR-2005
Lab File ID: g757k.d	Calibration Time: 11:25
Lab Smp Id: G757K1AA	Client Smp ID: SV-05-03
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 7126	
Method File: /var/chem/gcms/mt.i/T042005.b/LA.m	
Misc Info: T042005,LA,bridge.sub,,,1115 ML	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	139888	83233	196543	119605	-14.50
2 1,4-Difluorobenze	473126	281510	664742	384478	-18.74
3 Chlorobenzene-d5	435347	259031	611663	344478	-20.87

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	10.11	9.78	10.44	10.11	0.03
2 1,4-Difluorobenze	12.18	11.85	12.51	12.18	-0.05
3 Chlorobenzene-d5	16.71	16.38	17.04	16.71	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 10:22

STL Knoxville

RECOVERY REPORT

Client Name: URS Corporation

Sample Matrix: GAS

Lab Smp Id: G757K1AA

Level: LOW

Data Type: MS DATA

SpikeList File: all.spk

Sublist File: bridge.sub

Method File: /var/chem/gcms/mt.i/T042005.b/LA.m

Misc Info: T042005,LA,bridge.sub,,,1115 ML

Client SDG: H5D120102

Fraction: OTHER

Client Smp ID: SV-05-03

Operator: 7126

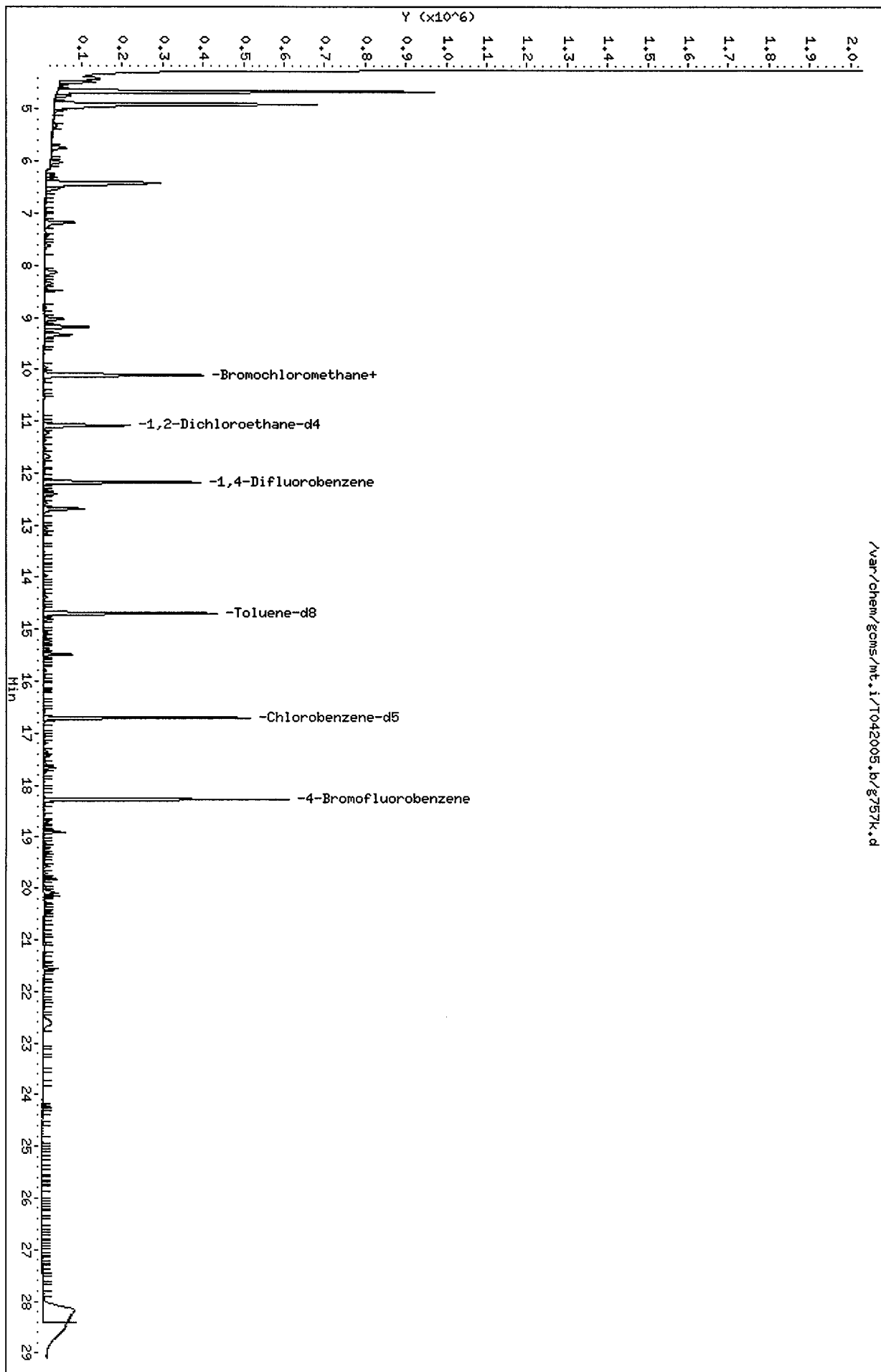
SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	10.53	105.28	70-130
\$ 5 Toluene-d8	10.00	9.575	95.75	70-130
\$ 6 4-Bromofluorobenze	10.00	10.30	103.03	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
Date : 21-APR-2005 09:28
Client ID: SV-05-03
Sample Info: G757K1A9,0,,
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt,i/T042005,b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt,i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

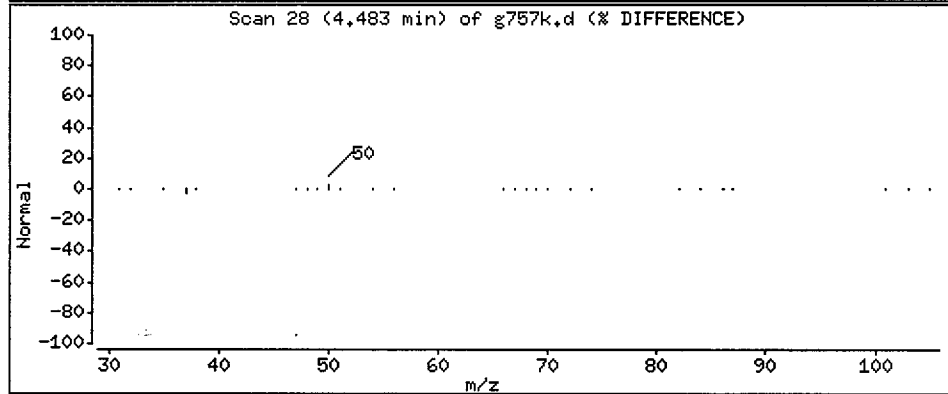
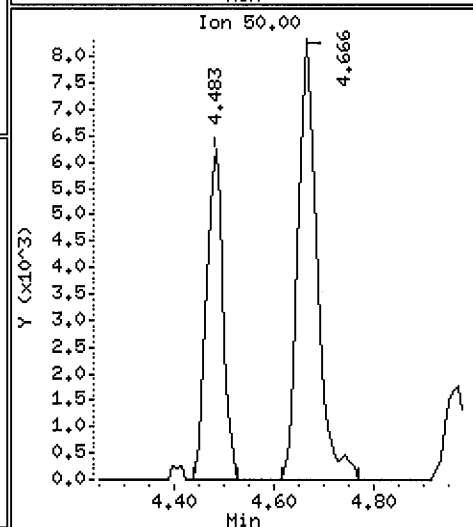
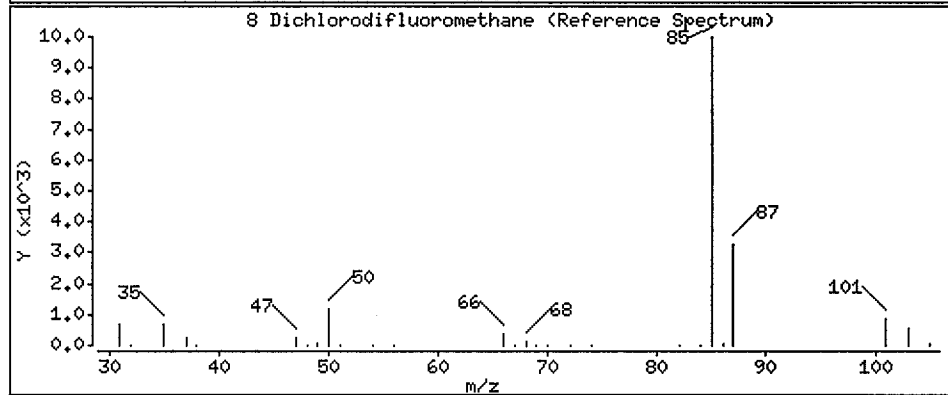
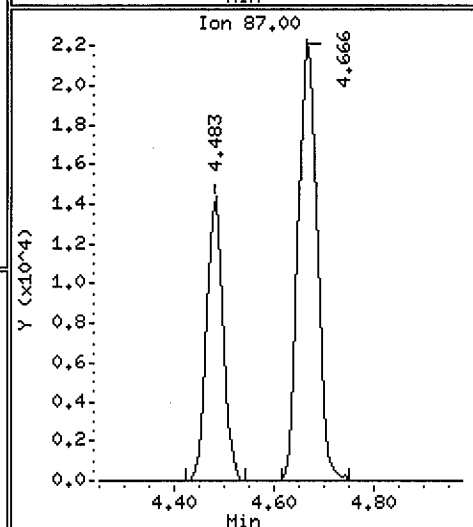
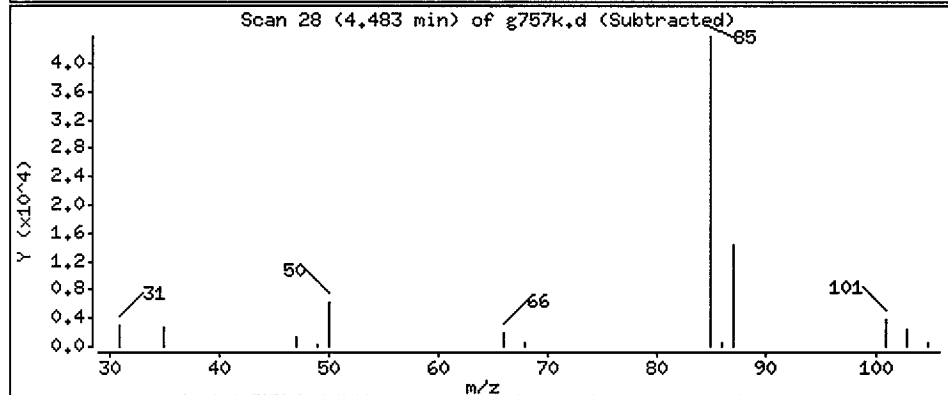
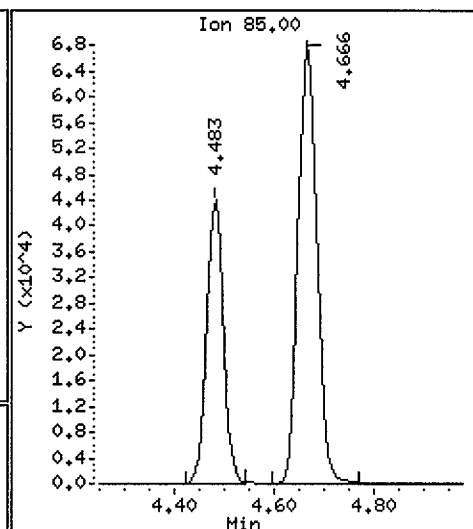
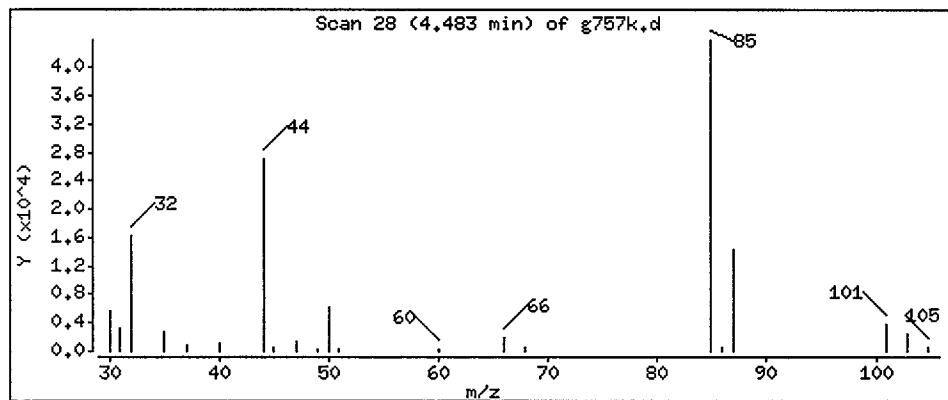
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

8 Dichlorodifluoromethane

Concentration: 1.996 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

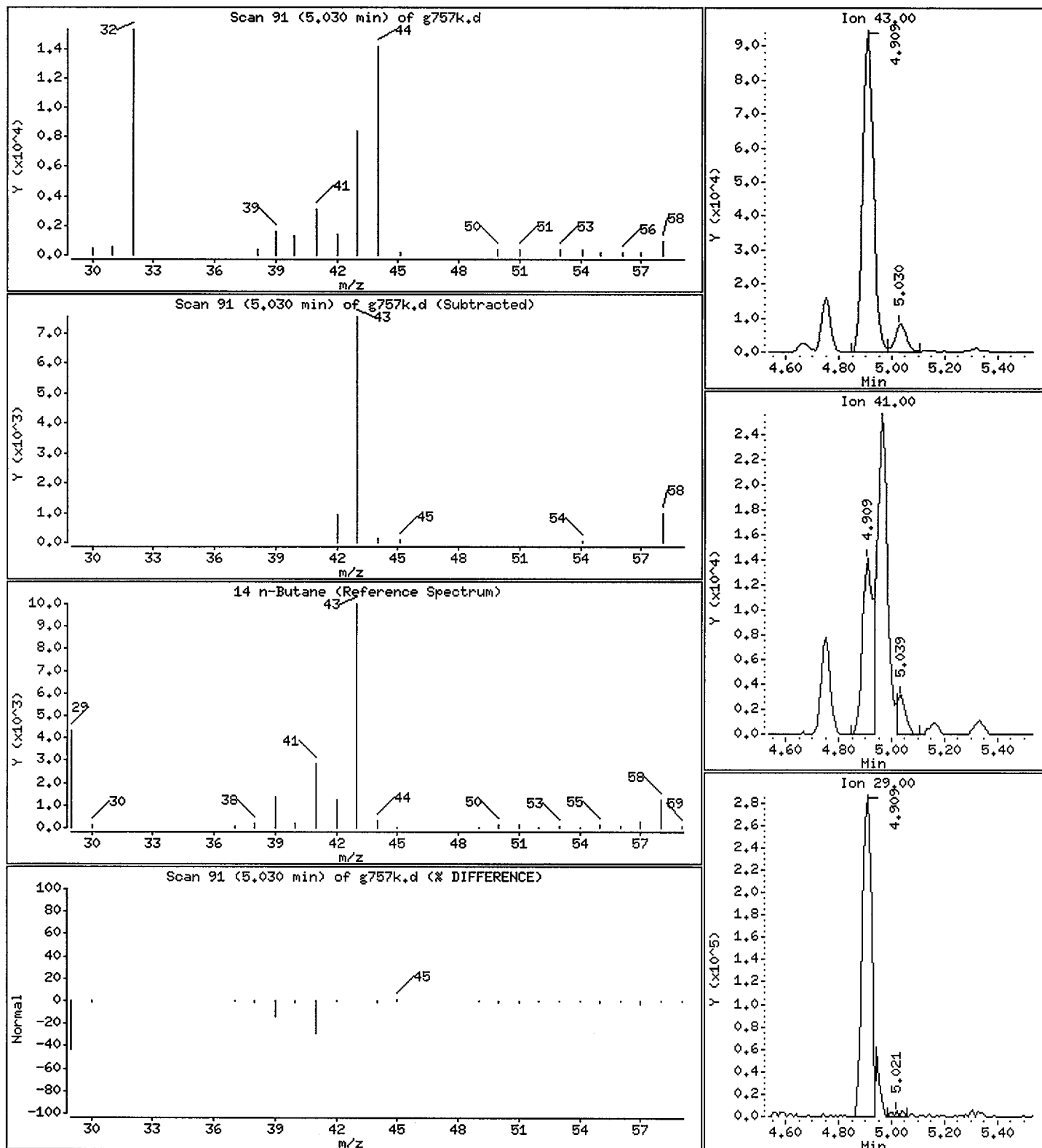
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 0.7094 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

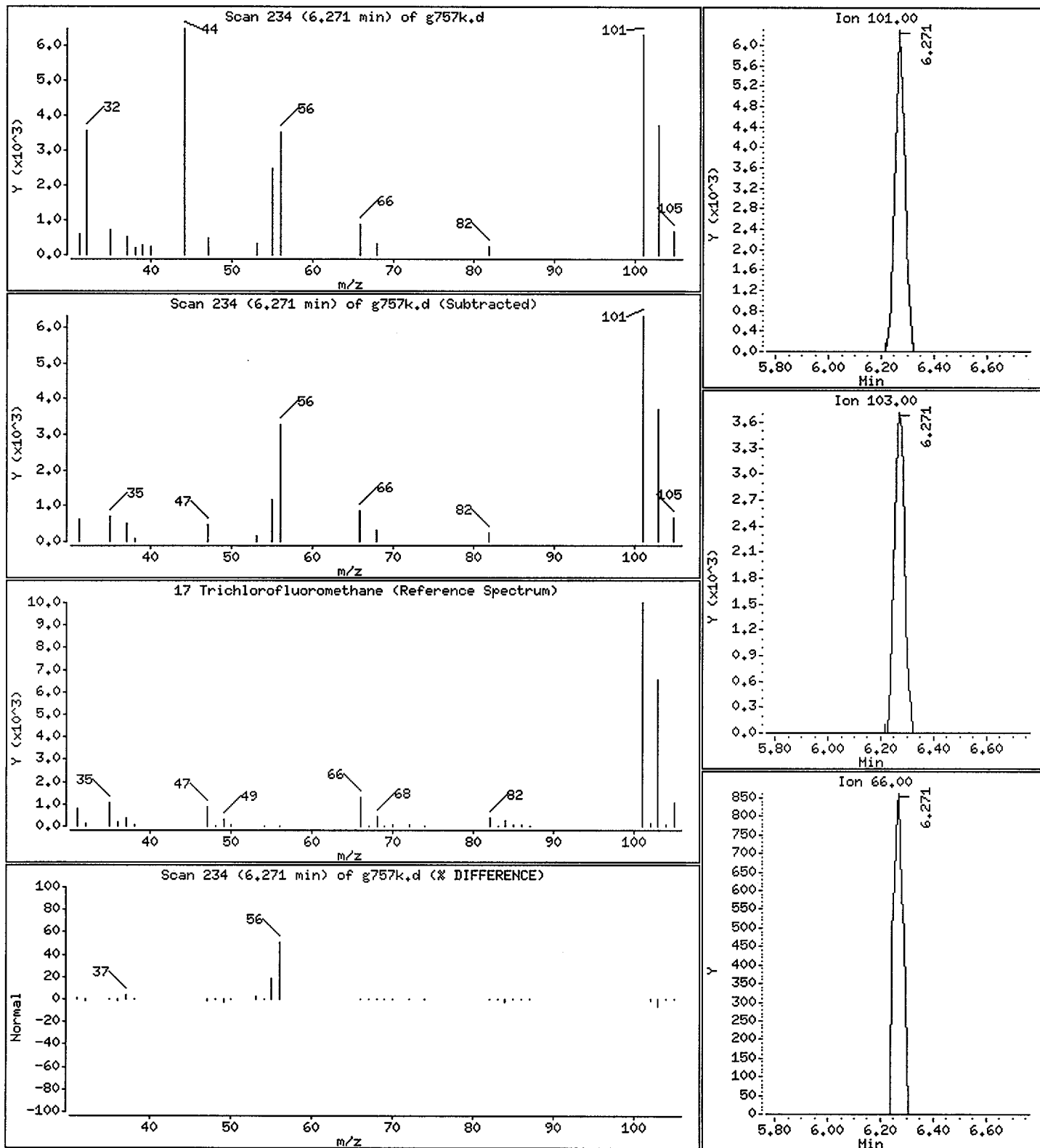
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

17 Trichlorofluoromethane

Concentration: 0.3407 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

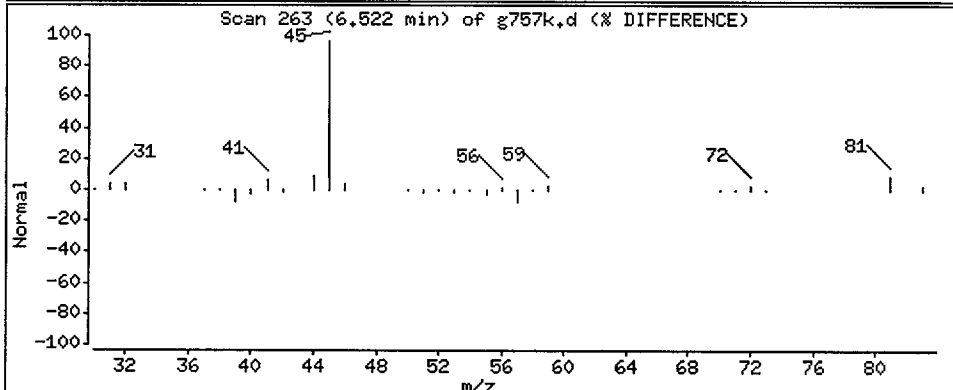
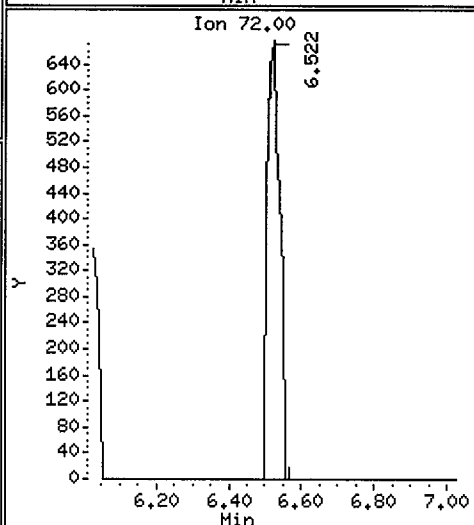
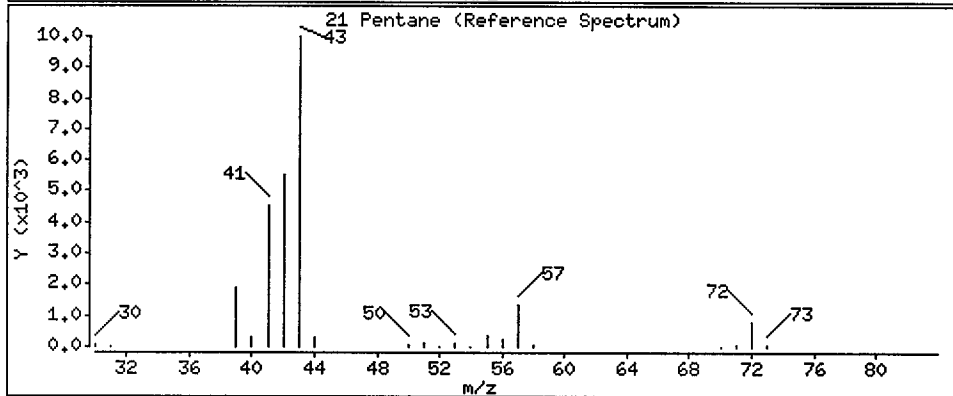
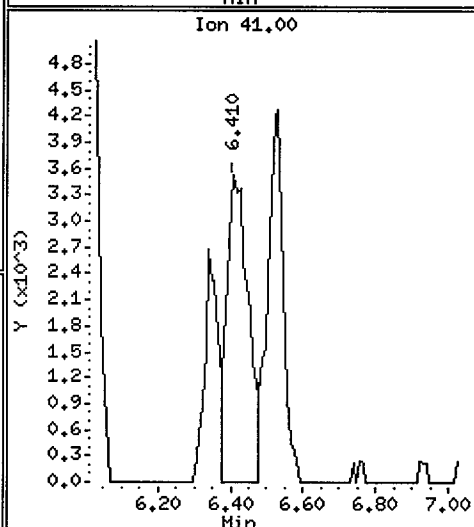
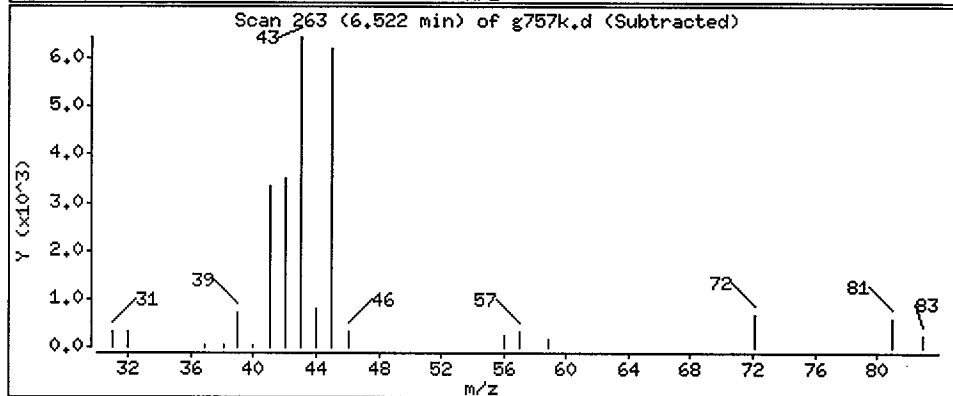
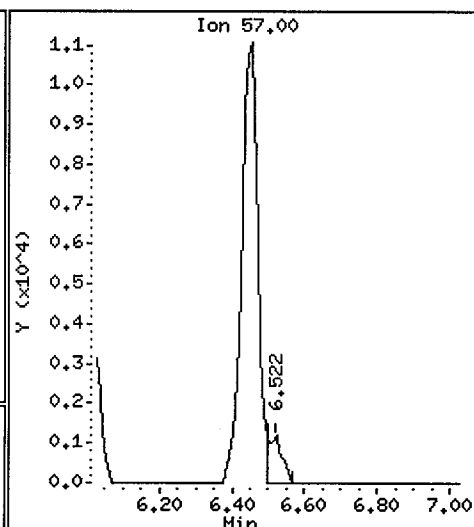
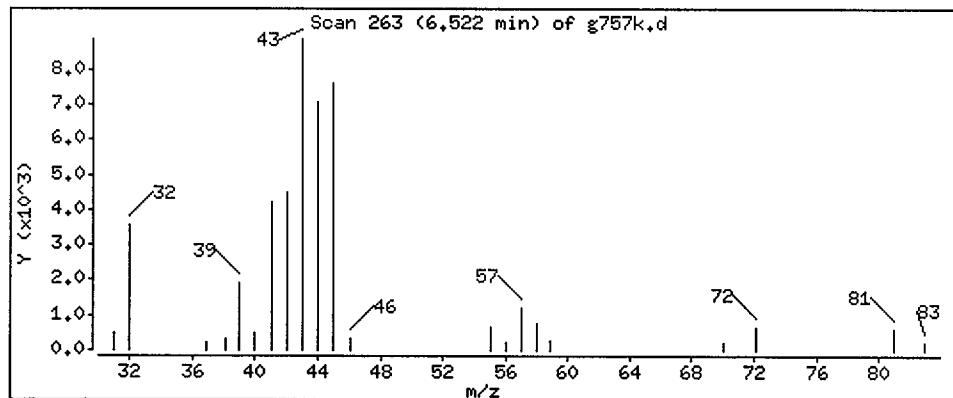
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

21 Pentane

Concentration: 0.6502 ppb(v/v)

SP
4/21/05
X

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

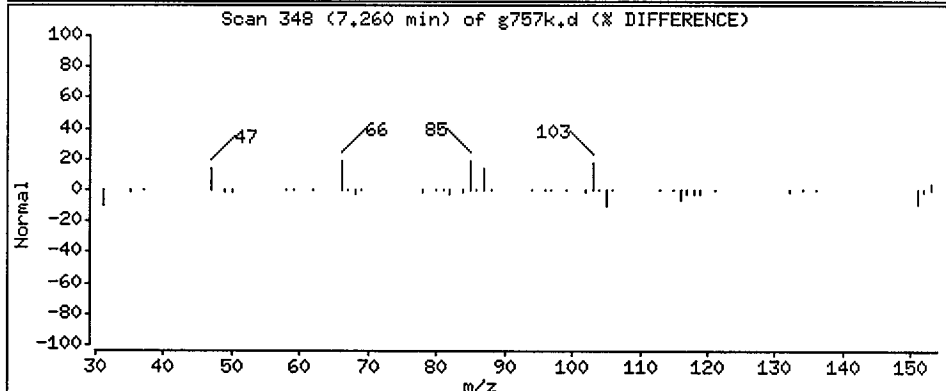
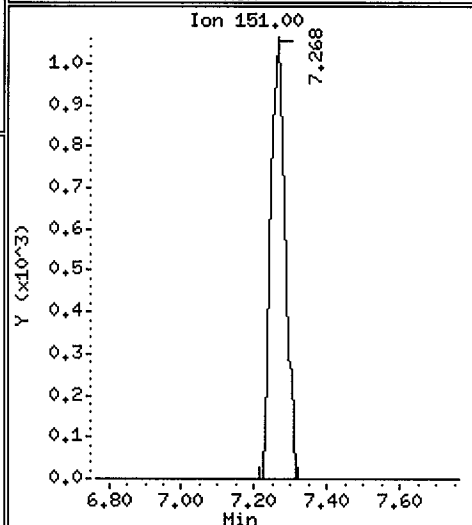
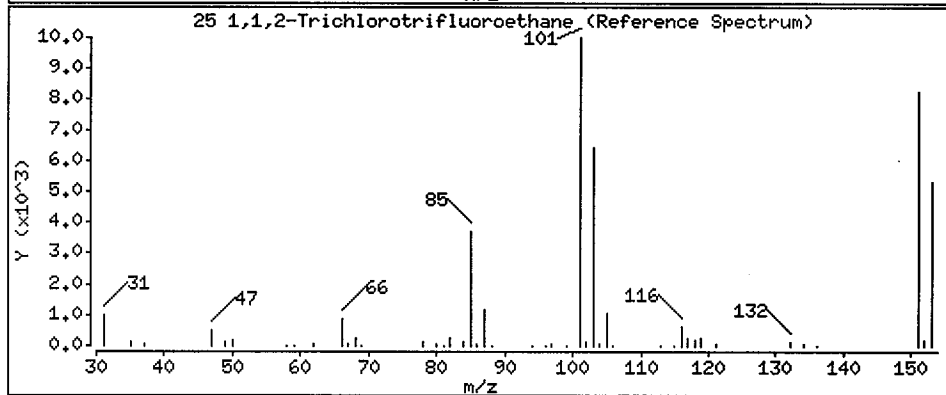
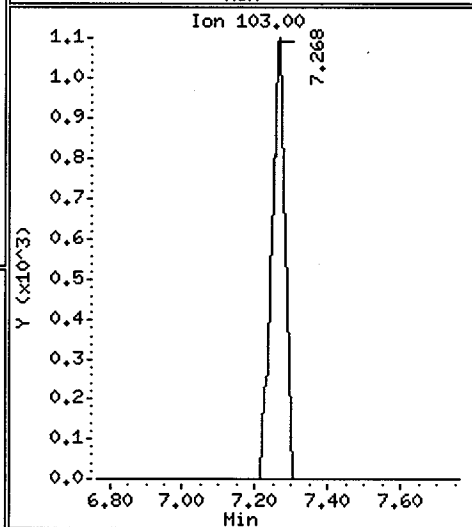
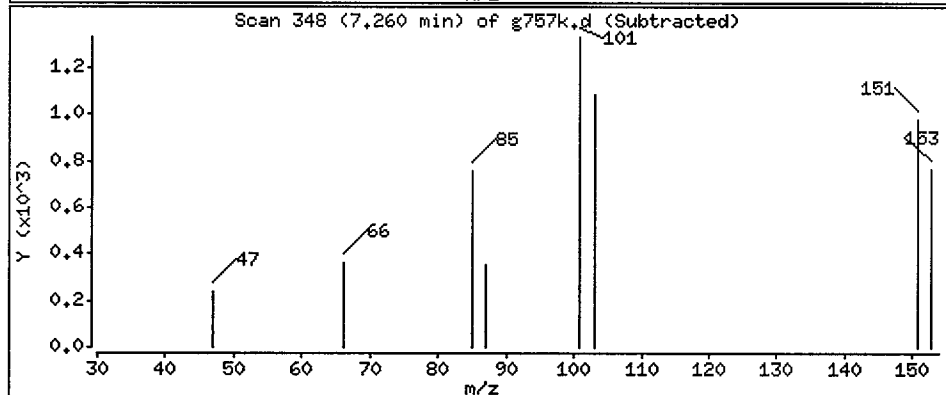
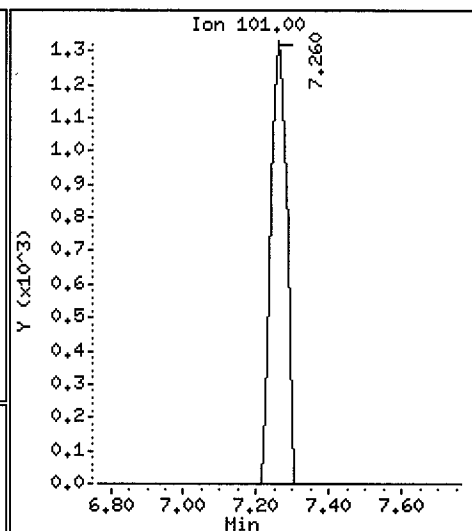
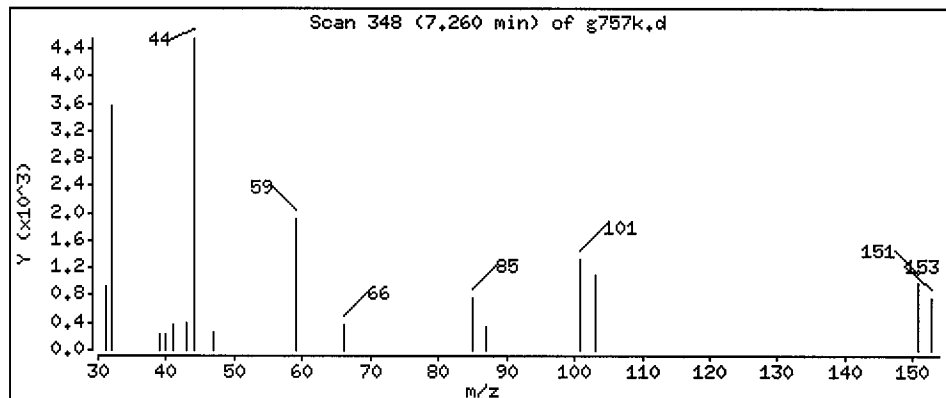
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

25 1,1,2-Trichlorotrifluoroethane

Concentration: 0.09646 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

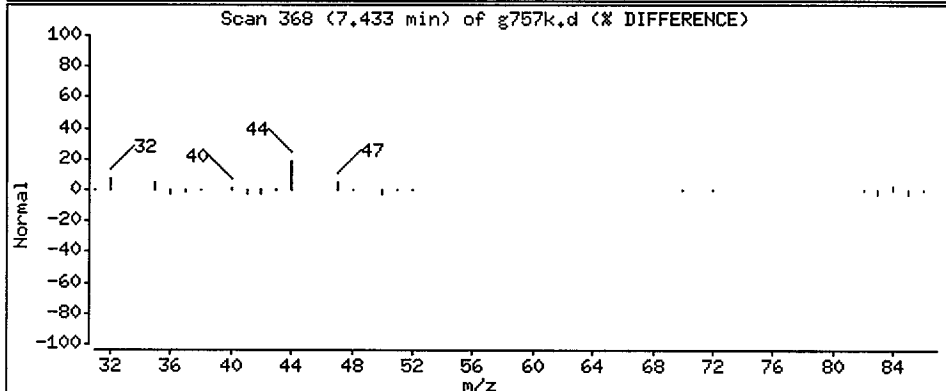
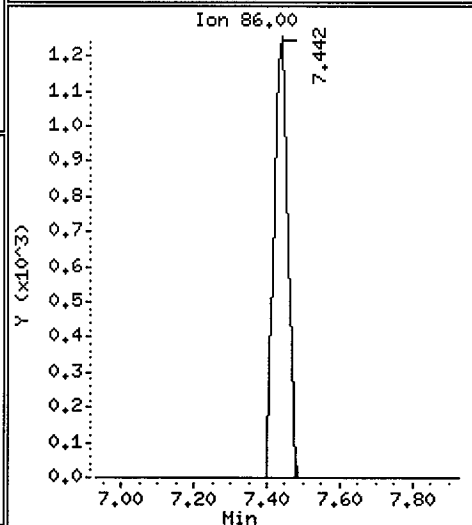
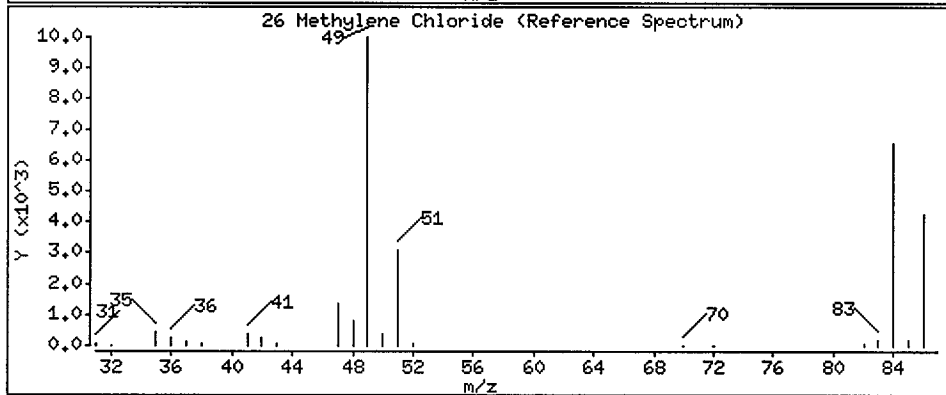
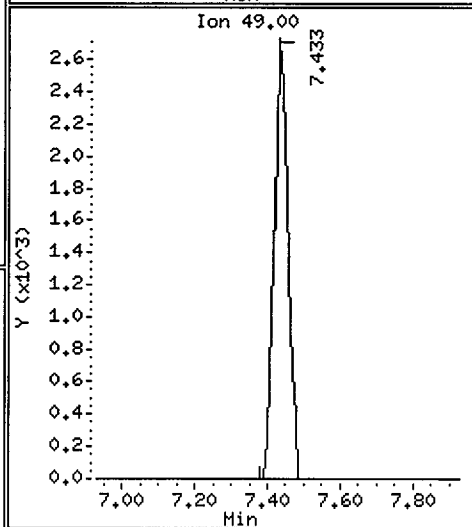
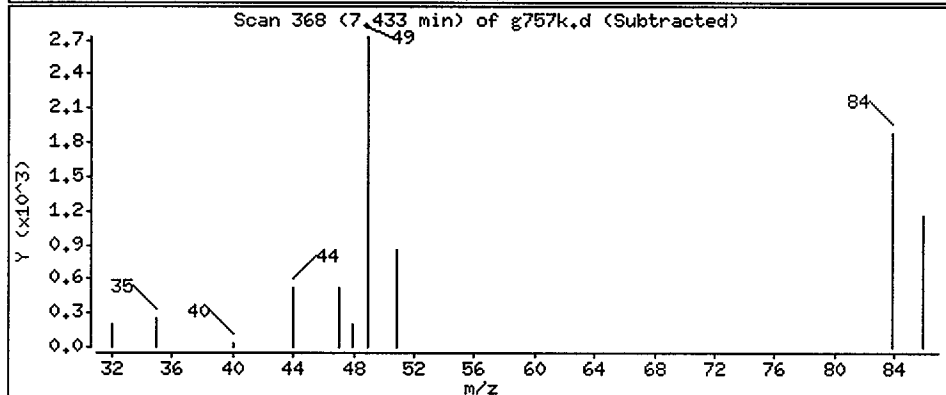
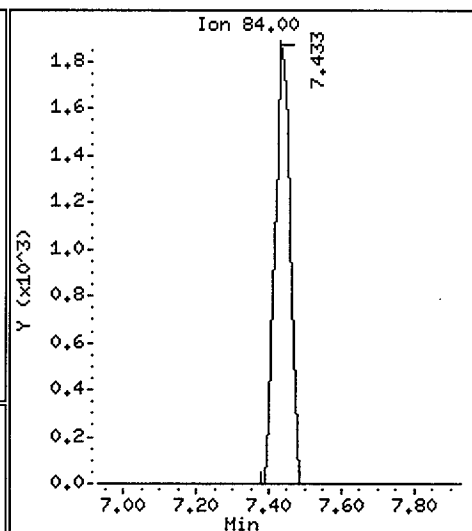
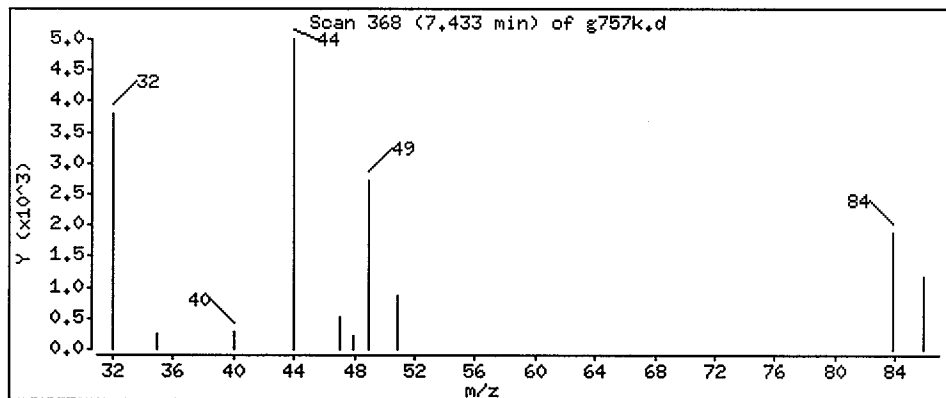
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

26 Methylene Chloride

Concentration: 0.2902 ppb(v/v)



Data File: /var/chem/gcms/mt,i/T042005,b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt,i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

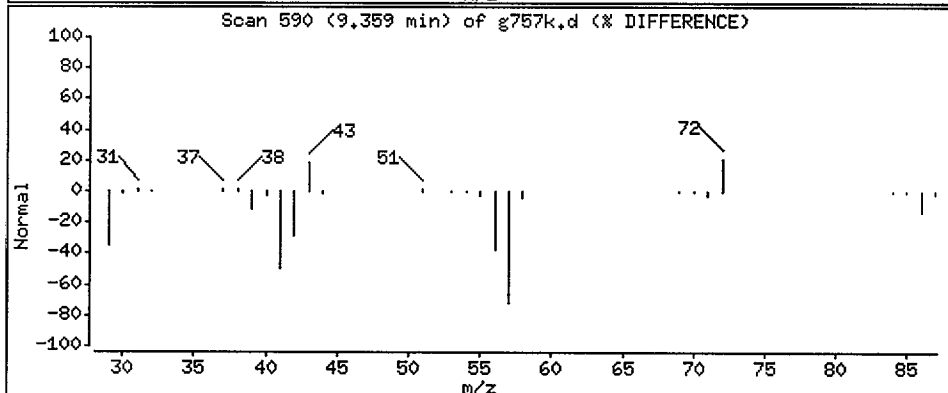
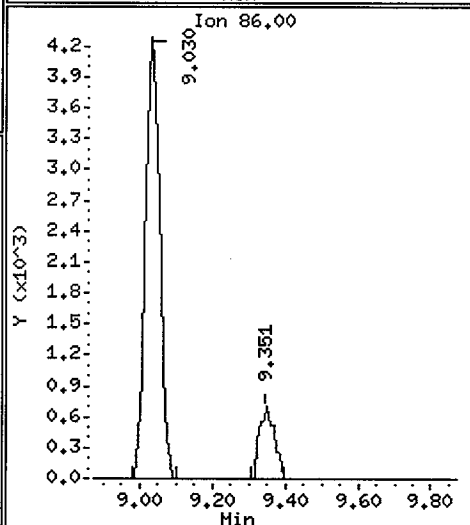
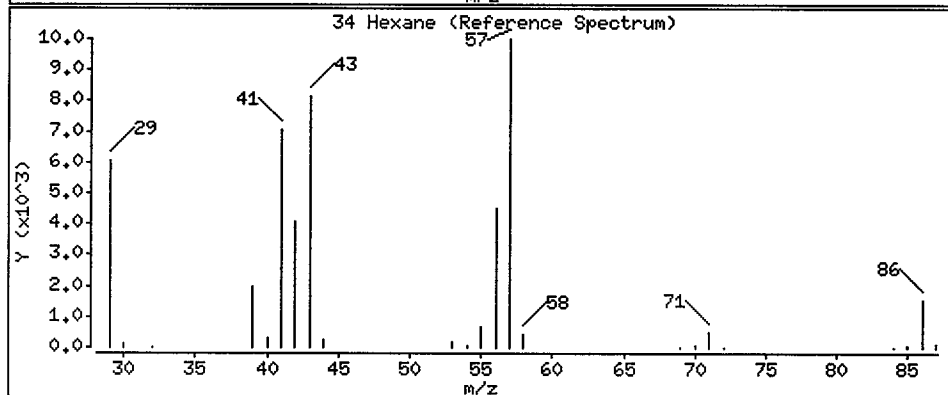
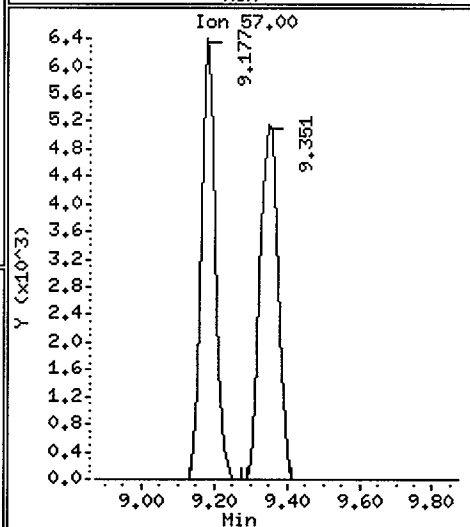
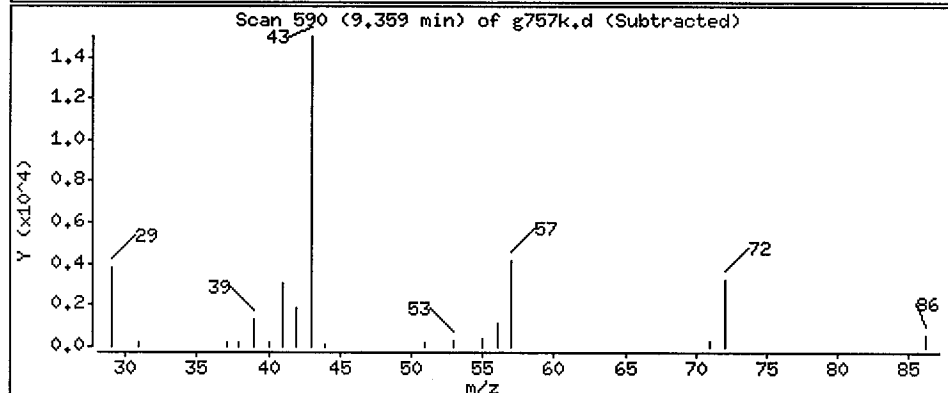
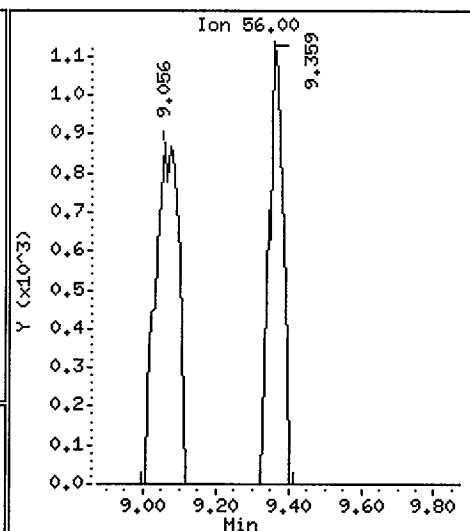
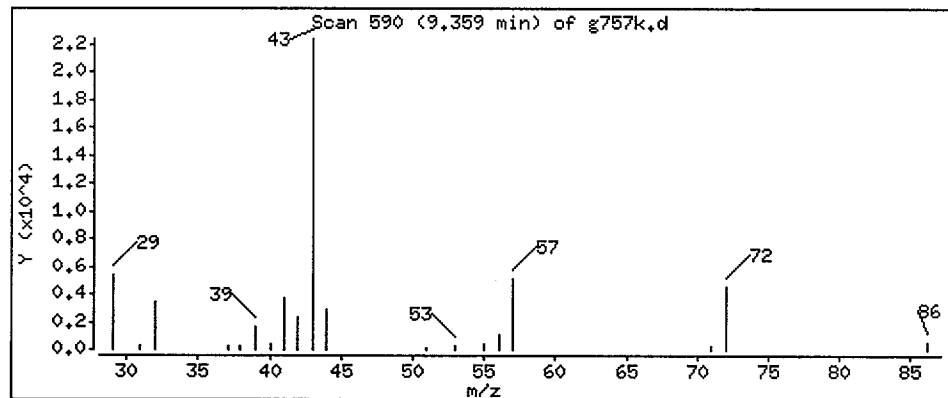
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

34 Hexane

Concentration: 0.1890 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

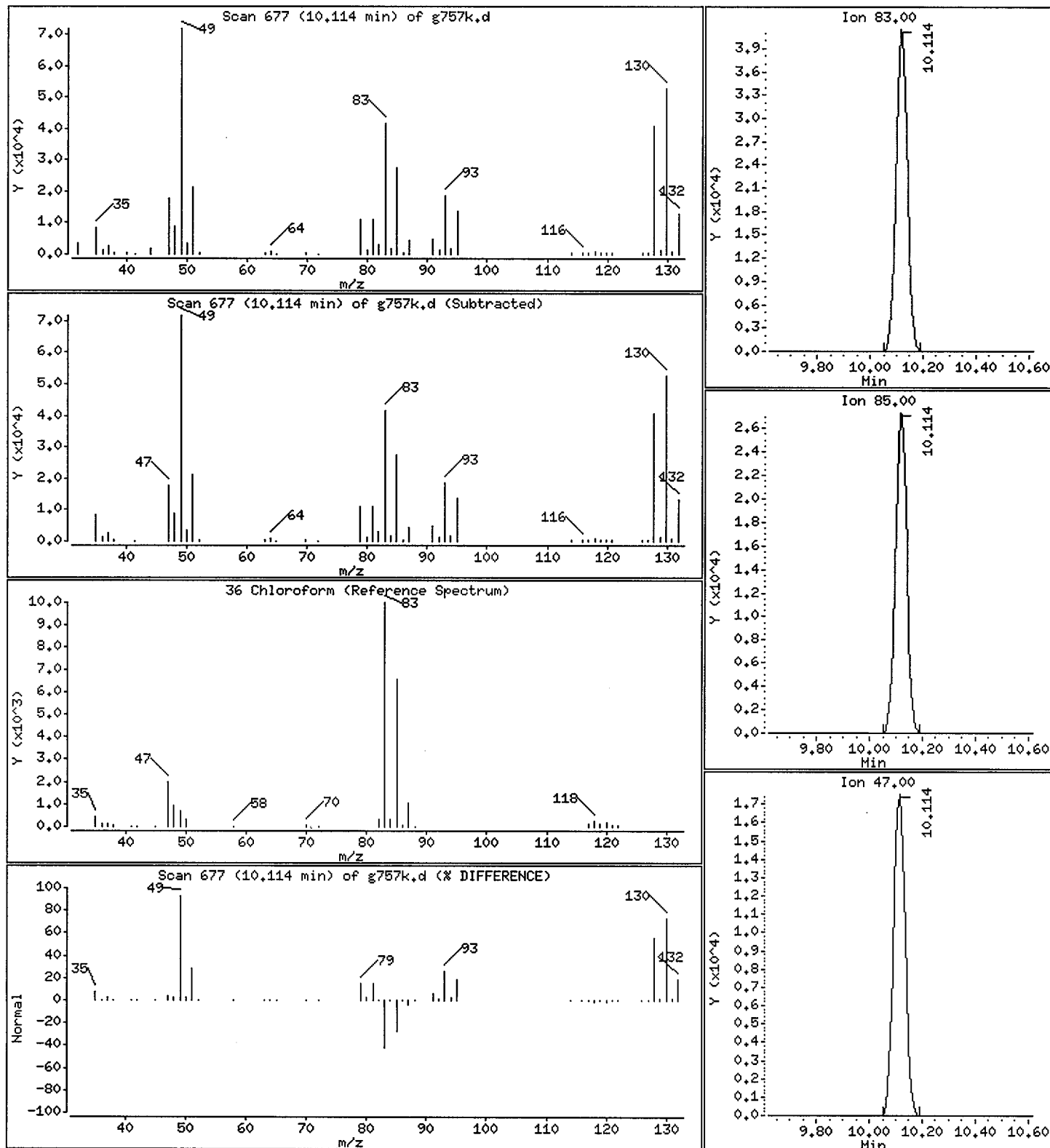
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

36 Chloroform

Concentration: 3,251 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

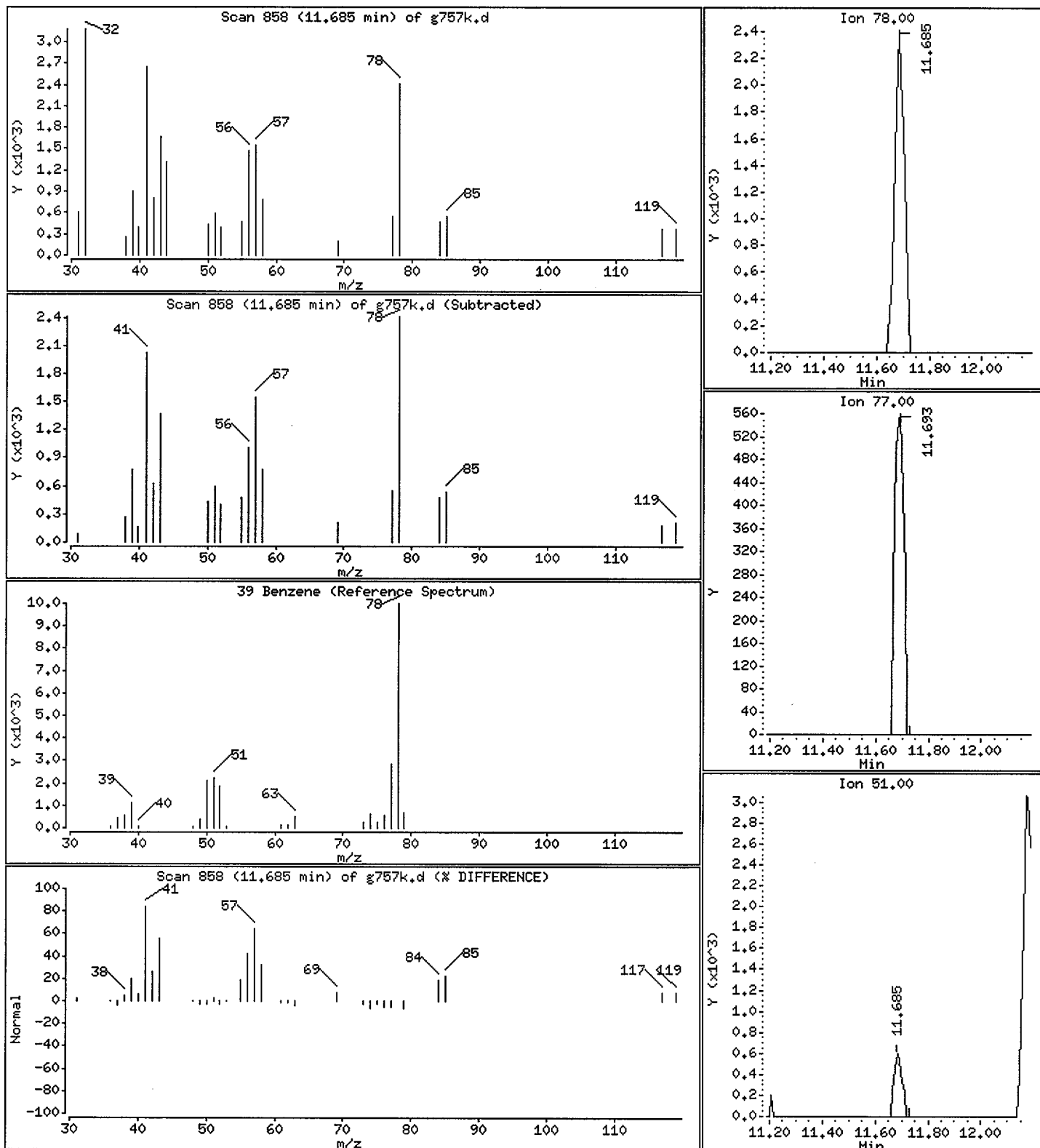
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

39 Benzene

Concentration: 0.1450 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date: 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

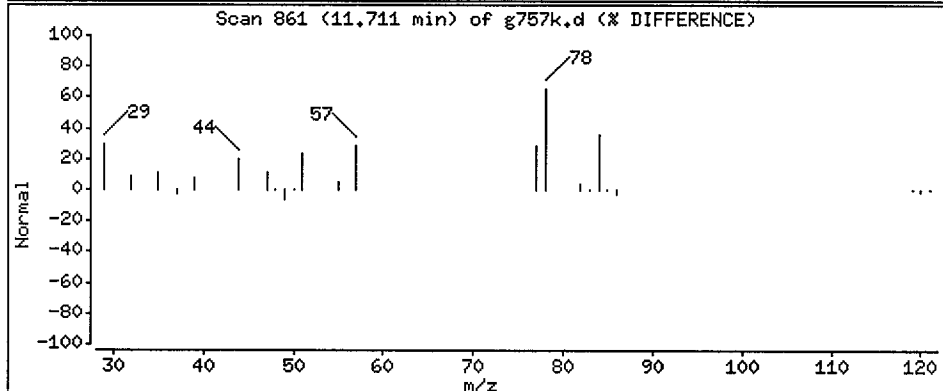
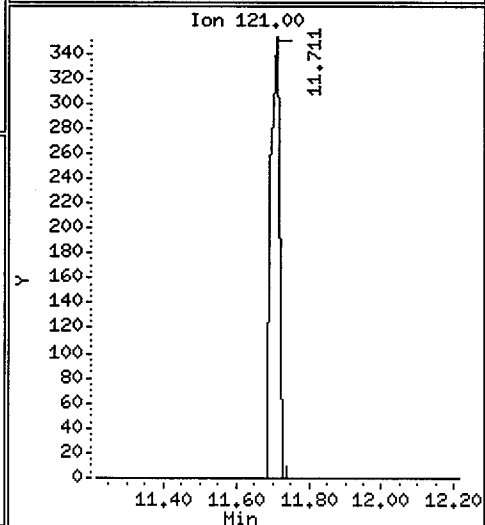
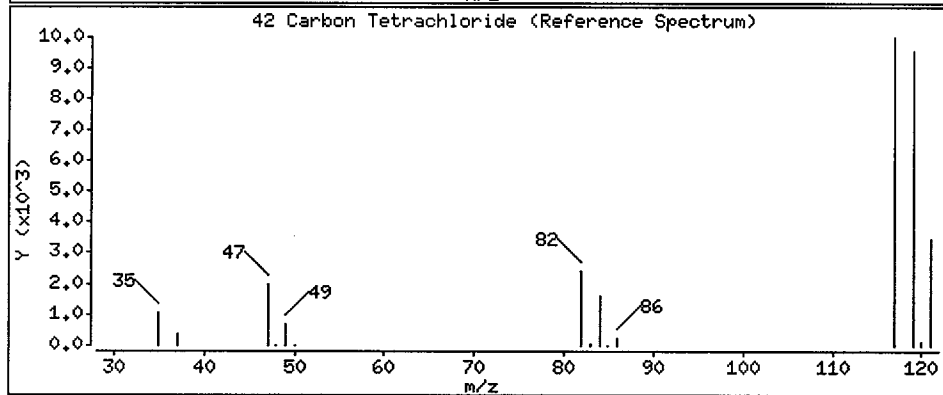
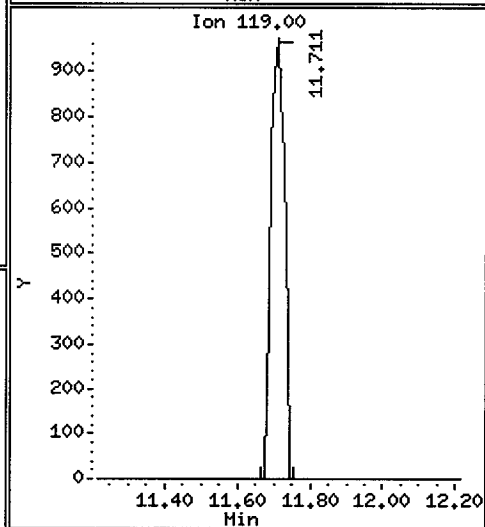
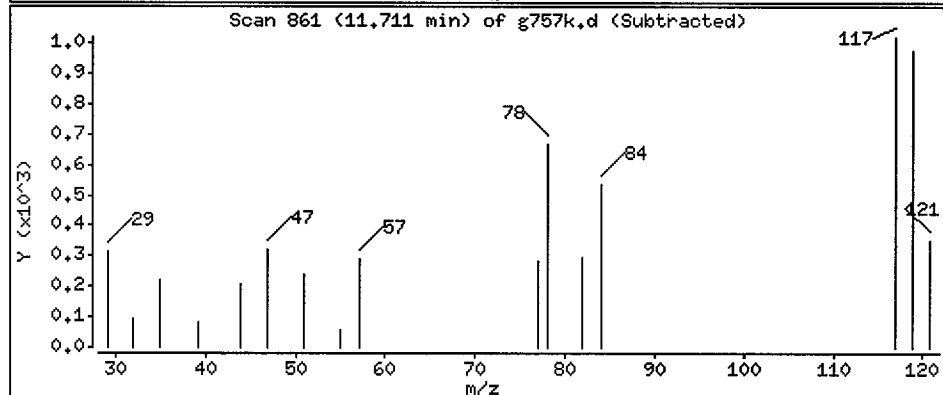
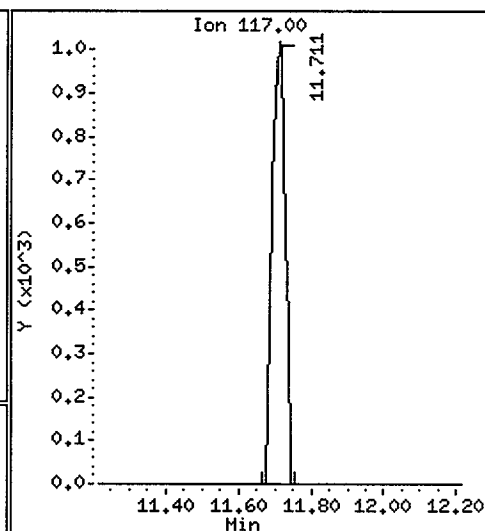
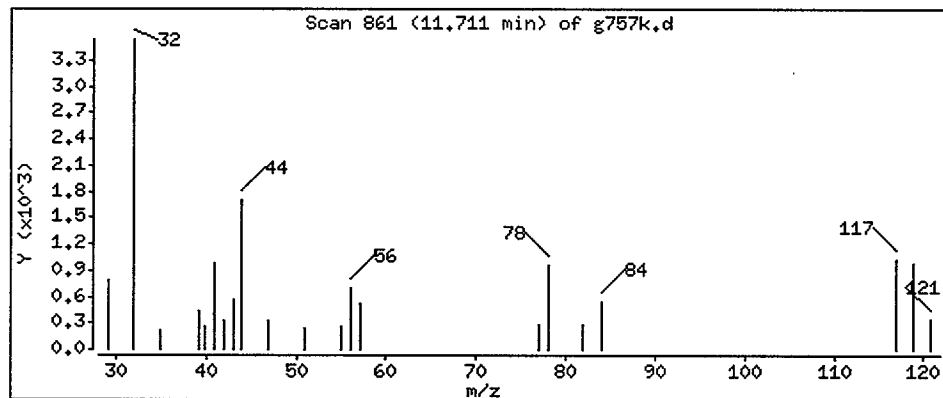
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

42 Carbon Tetrachloride

Concentration: 0.07277 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005,b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

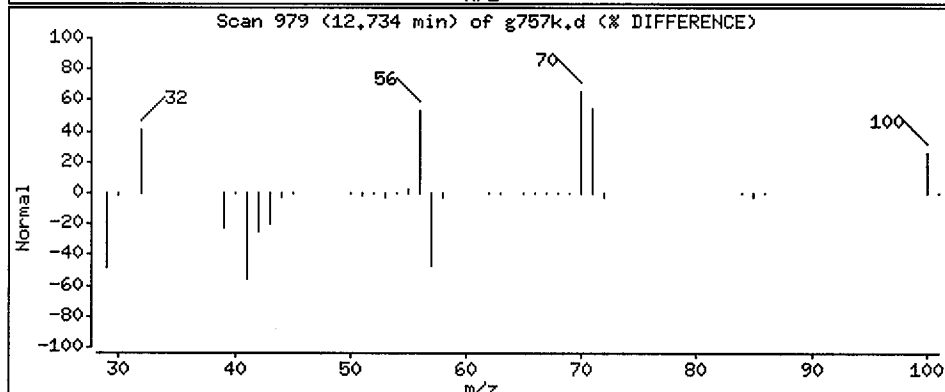
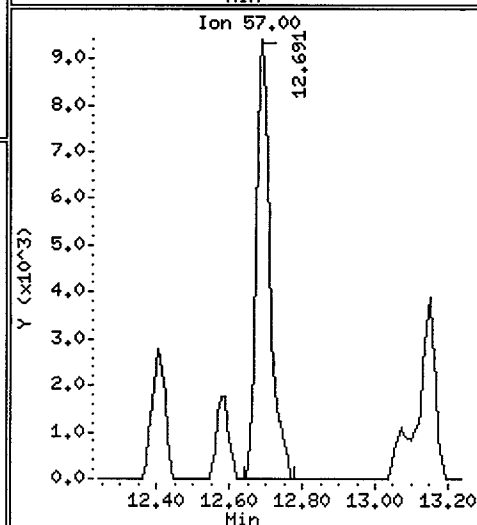
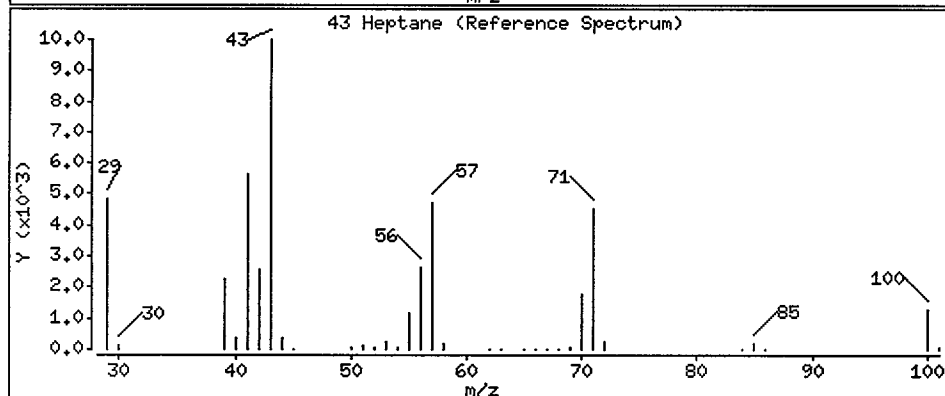
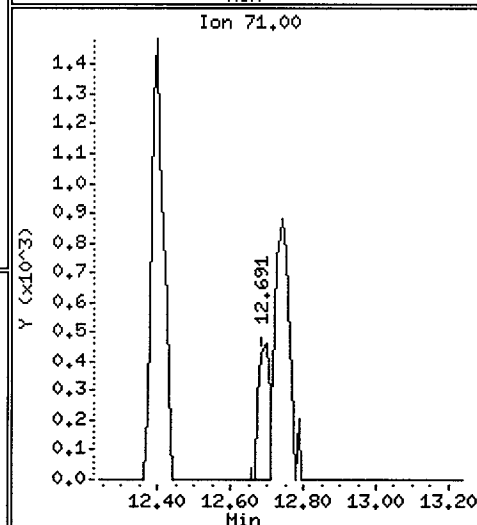
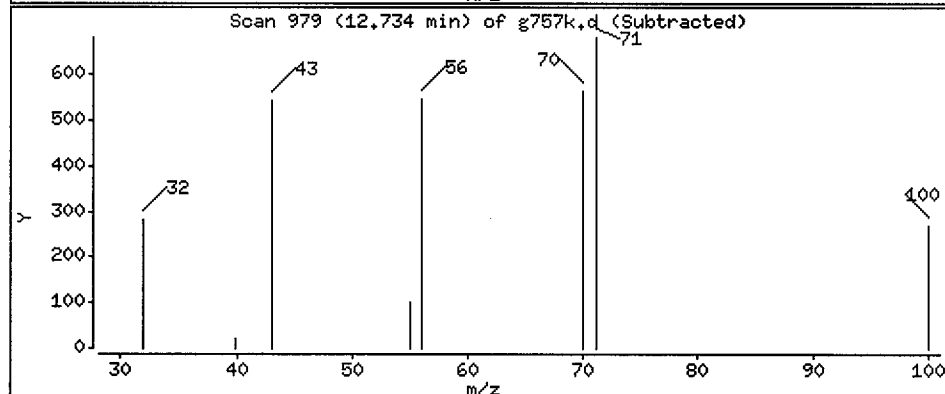
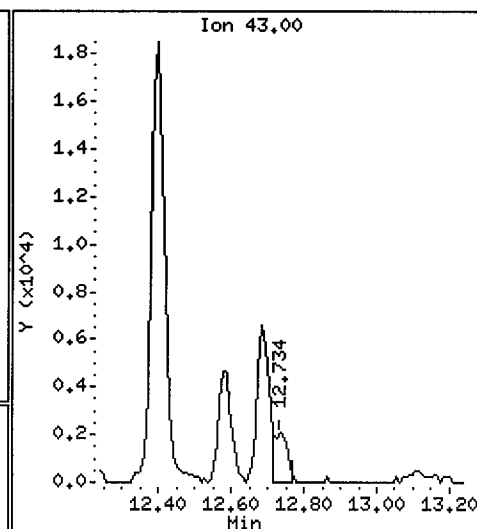
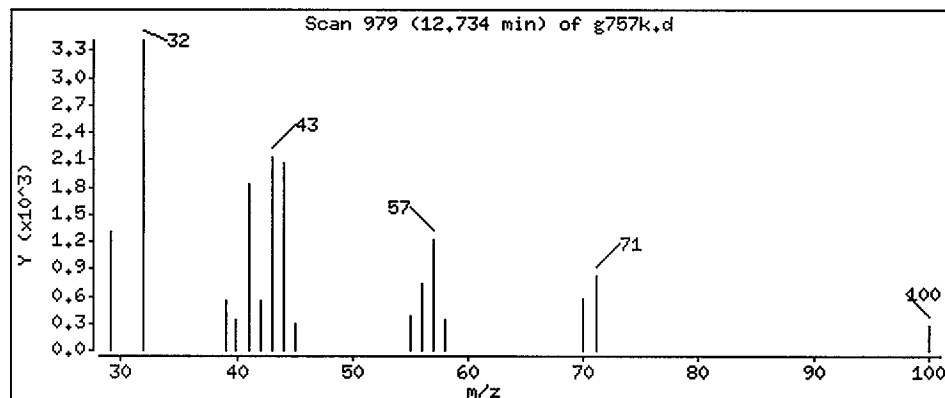
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

43 Heptane

Concentration: 0.1789 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

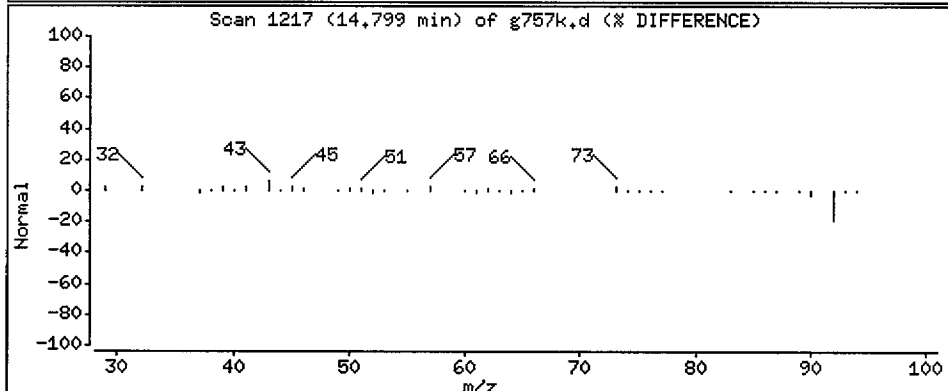
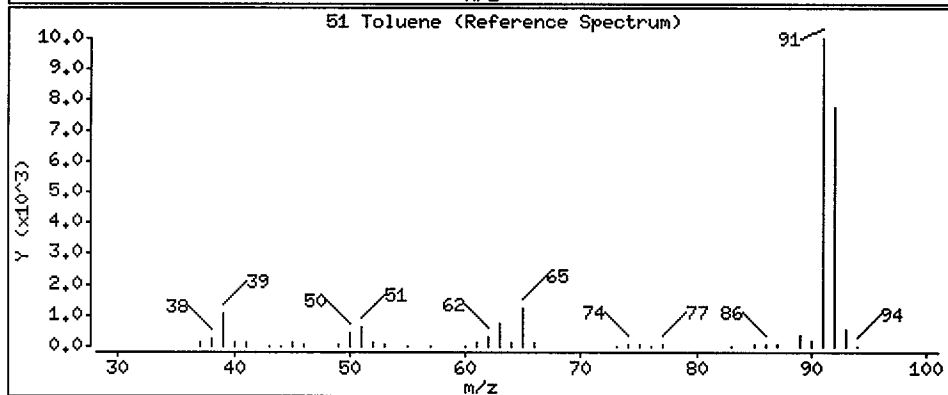
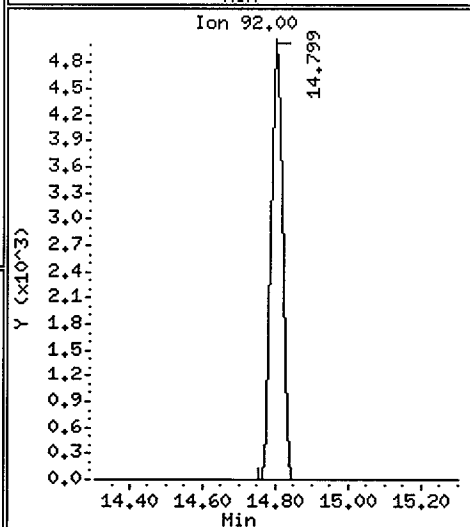
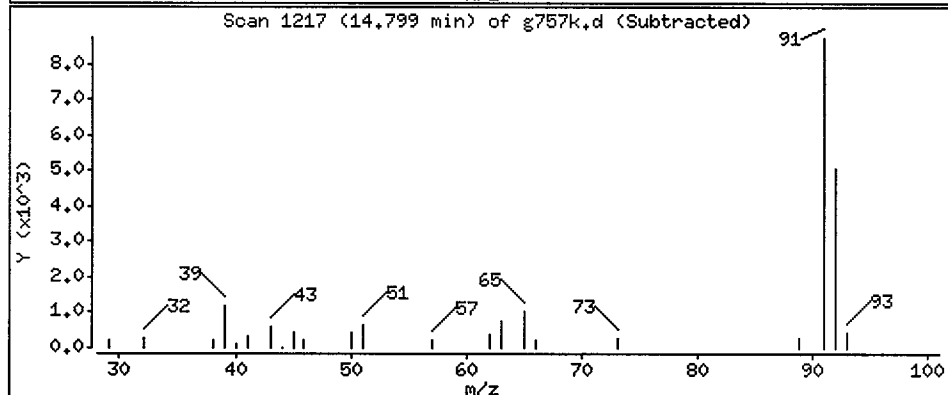
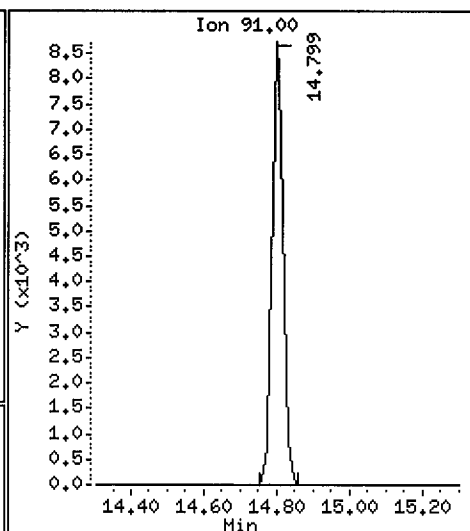
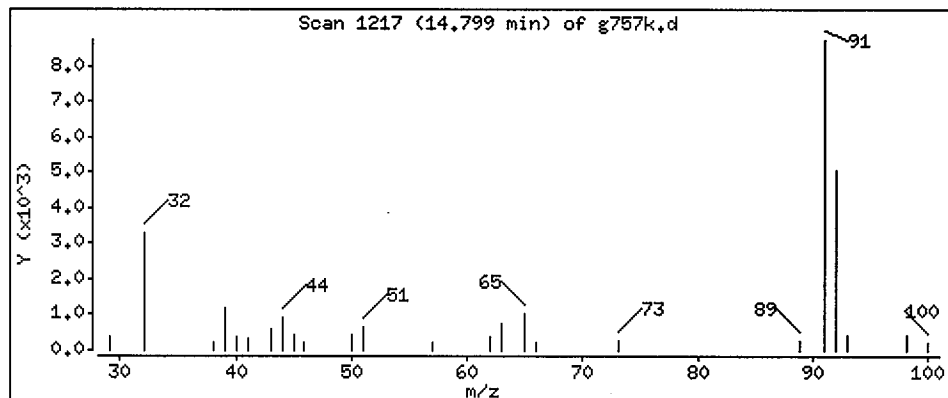
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

51 Toluene

Concentration: 0.4400 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date: 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

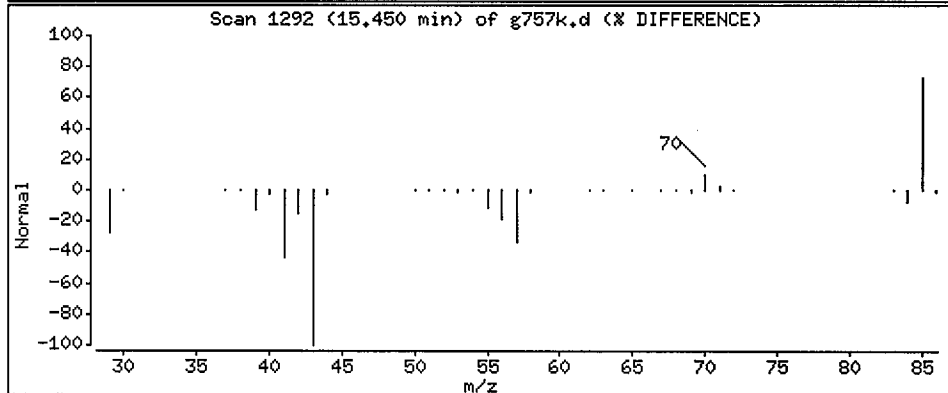
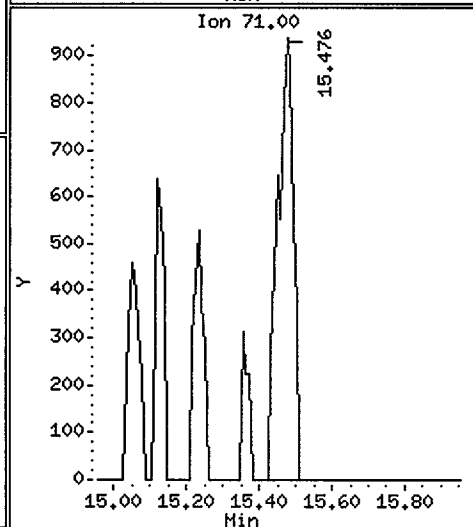
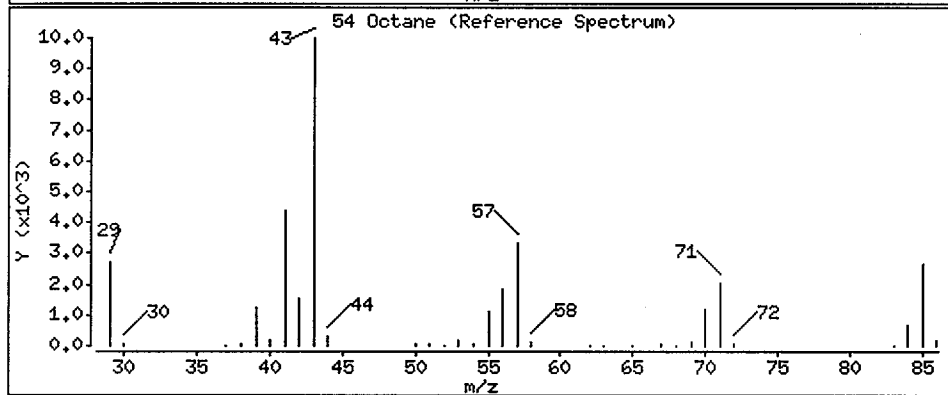
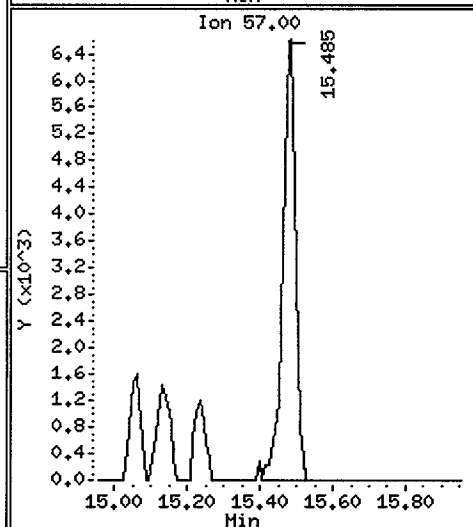
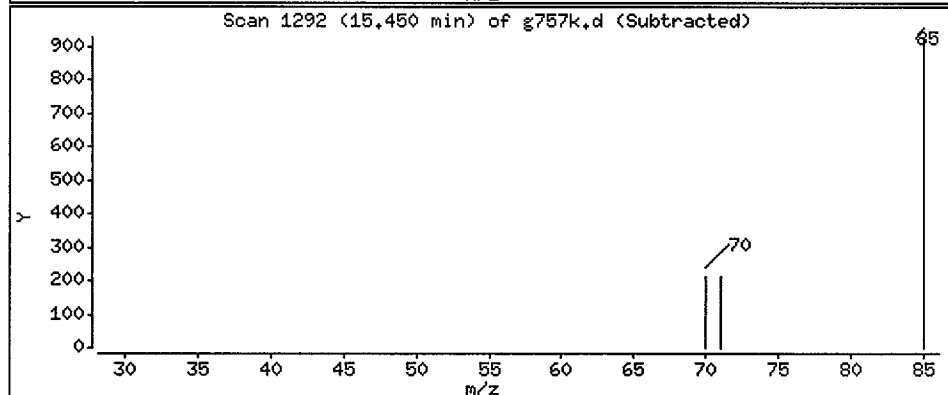
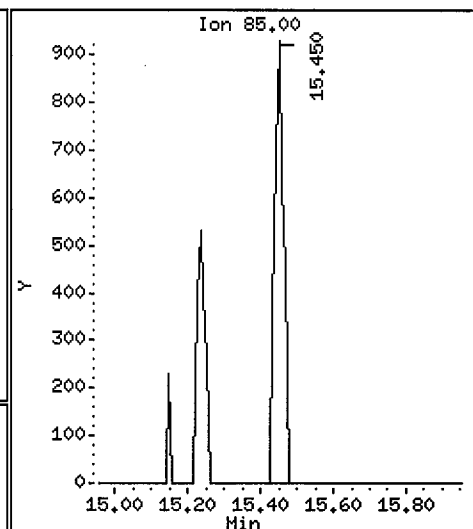
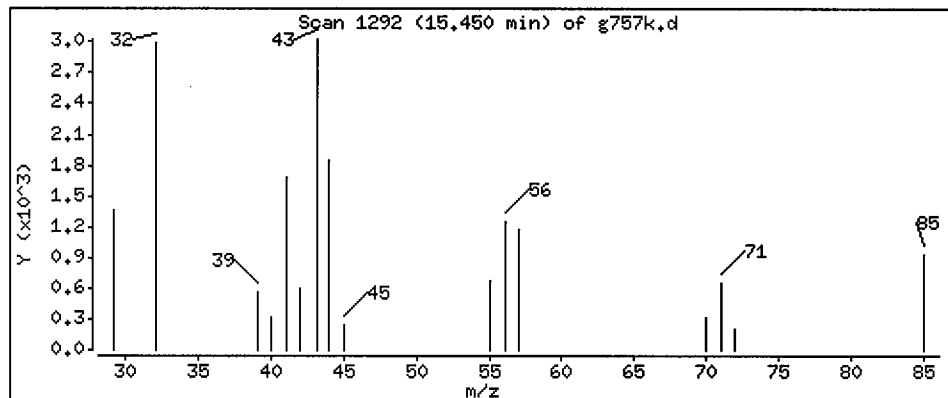
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

54 Octane

Concentration: 0.1099 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

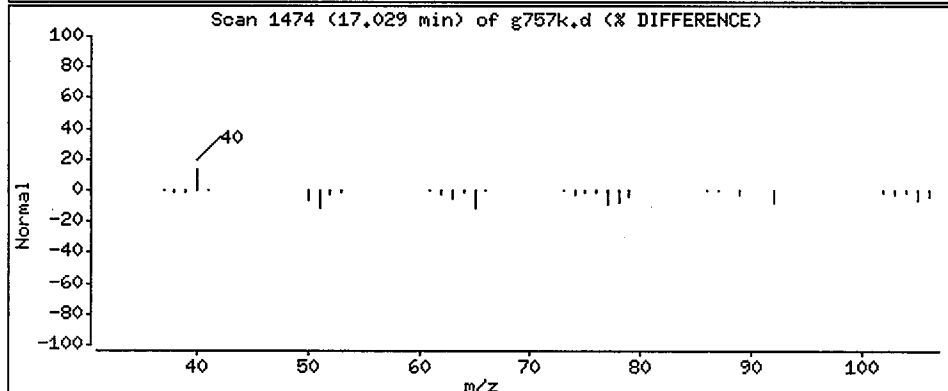
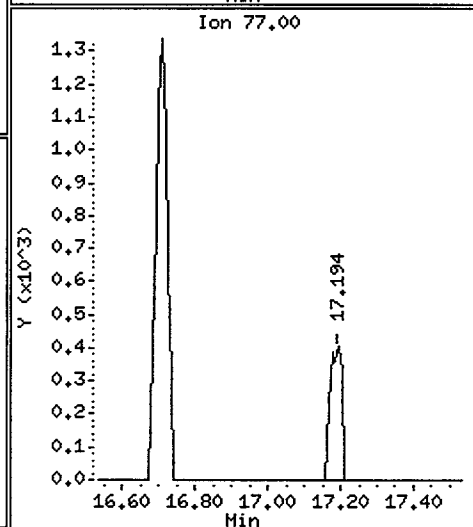
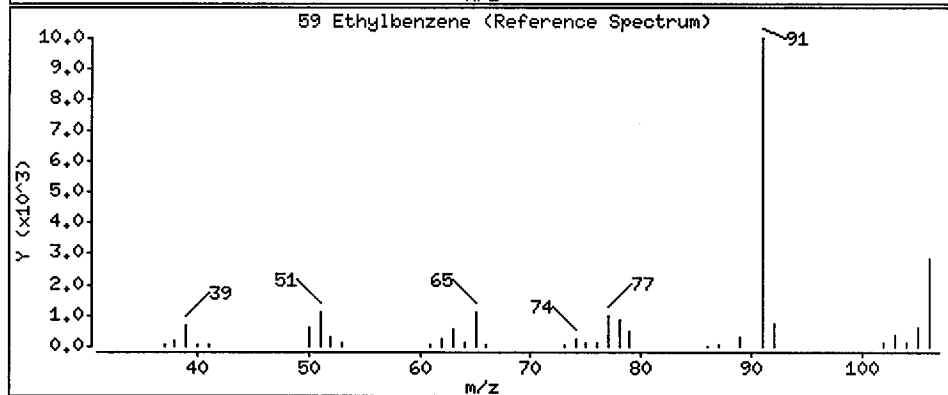
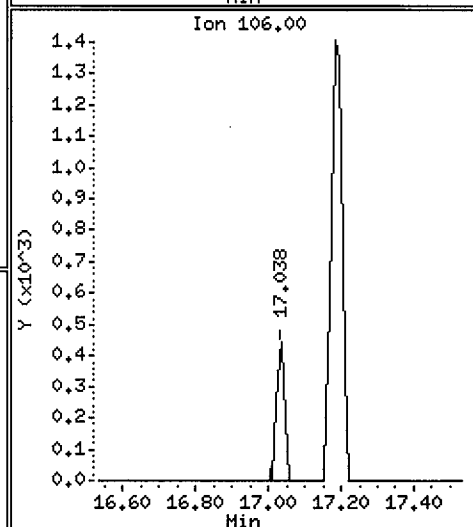
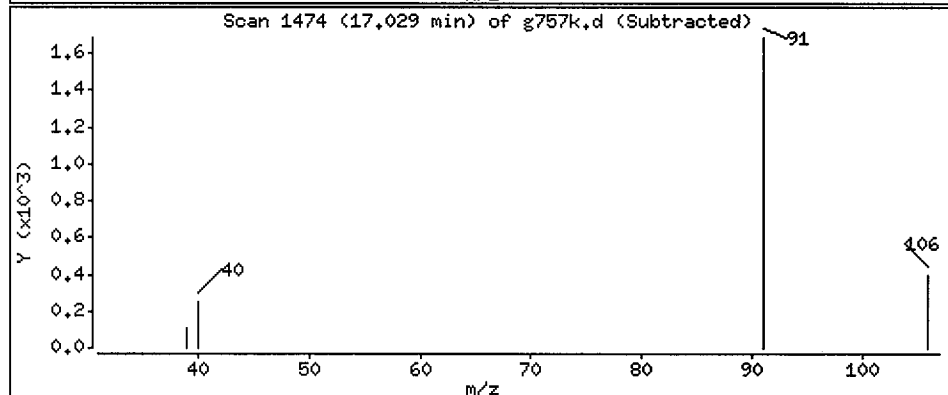
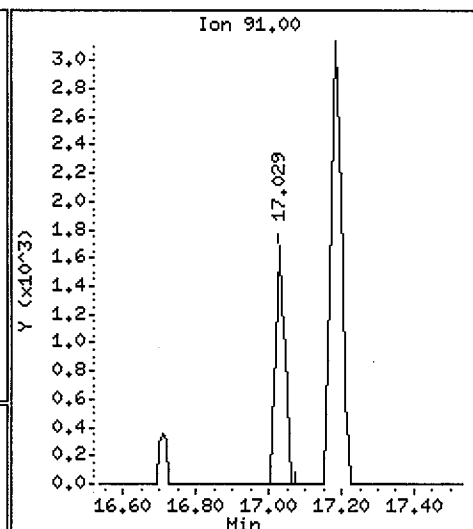
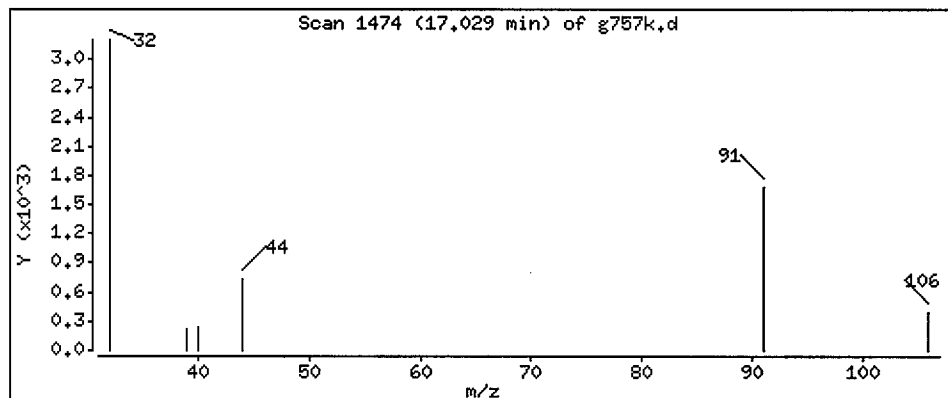
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

59 Ethylbenzene

Concentration: 0.05840 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

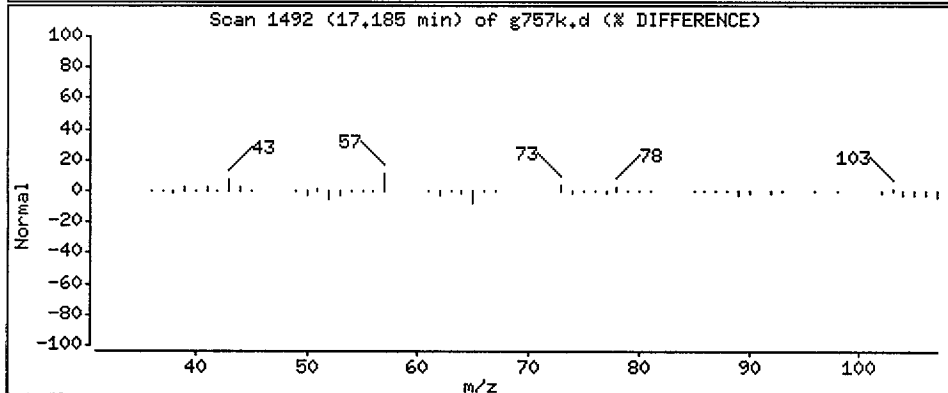
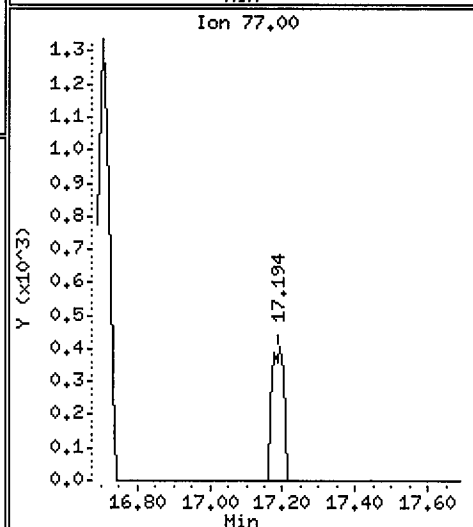
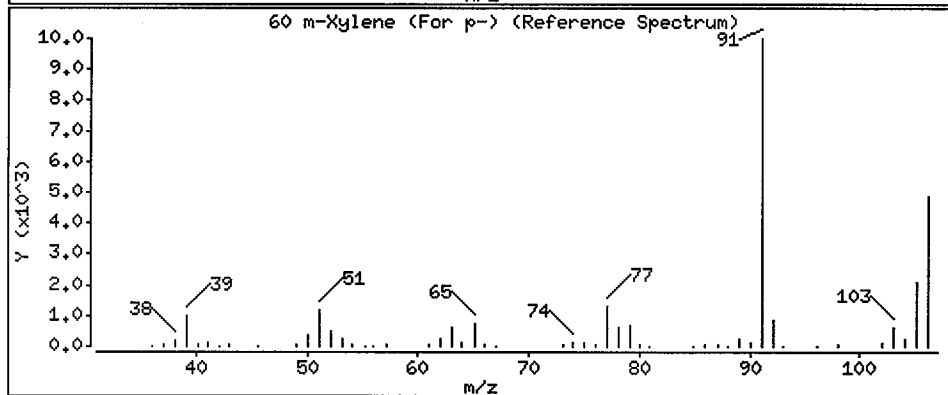
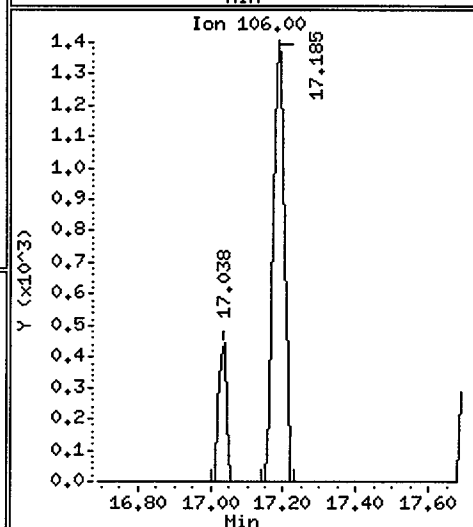
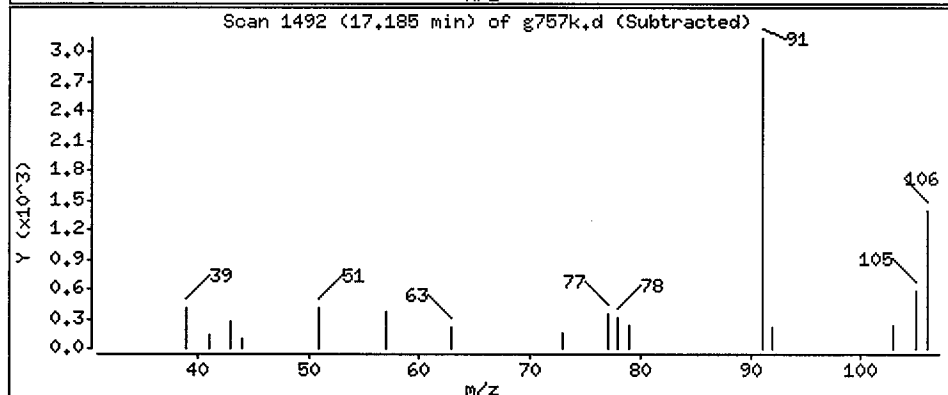
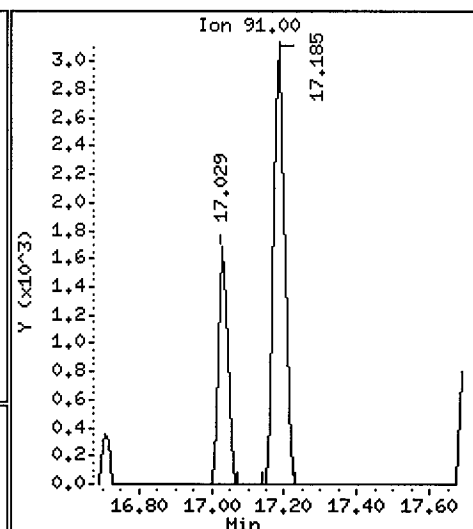
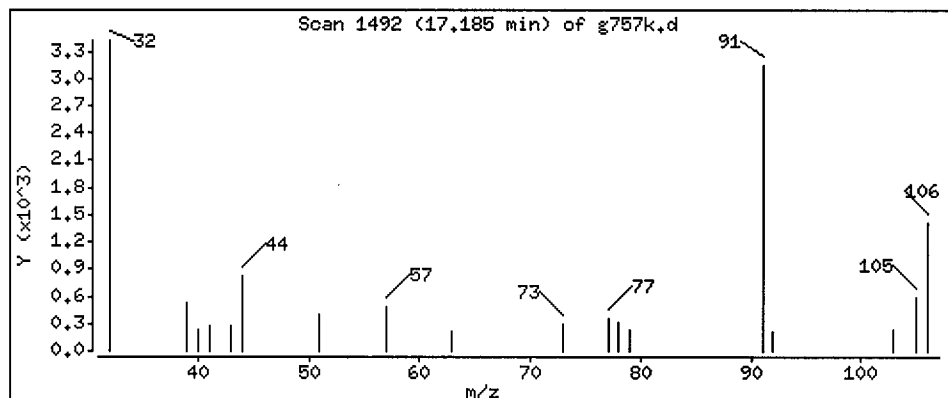
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

60 m-Xylene (For p-)

Concentration: 0.1728 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

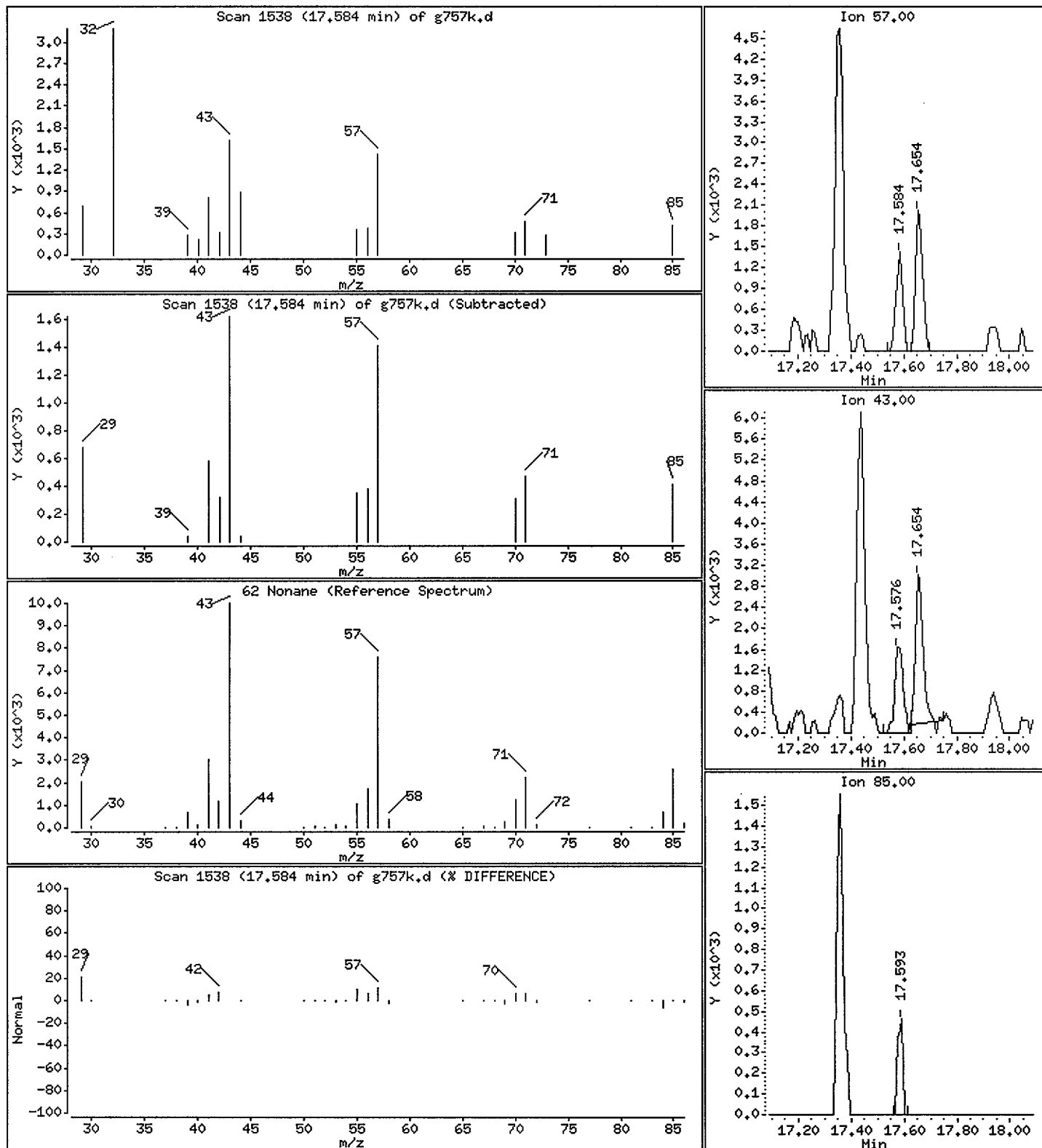
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

62 Nonane

Concentration: 0.08257 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

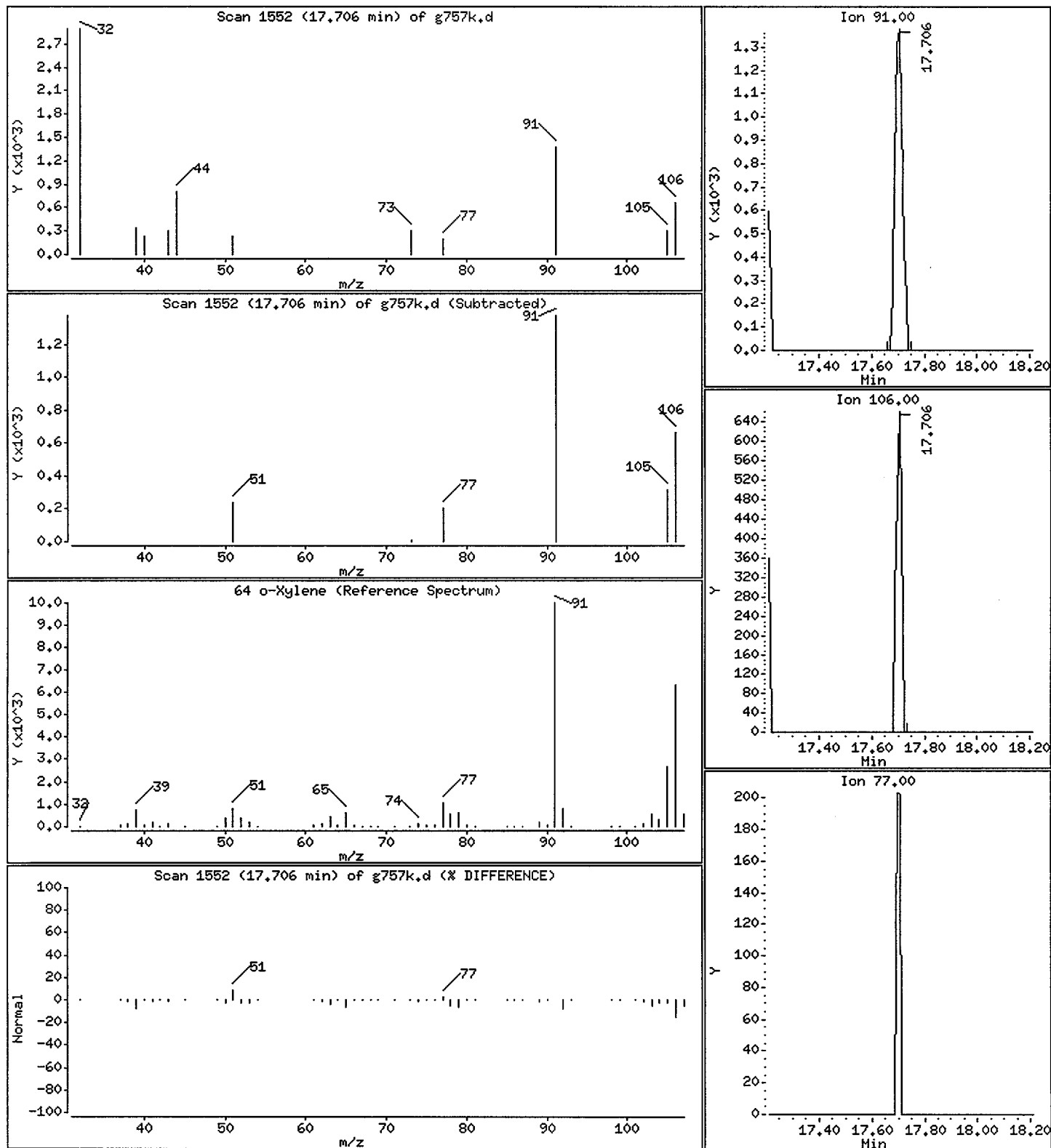
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

64 o-Xylene

Concentration: 0.07417 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

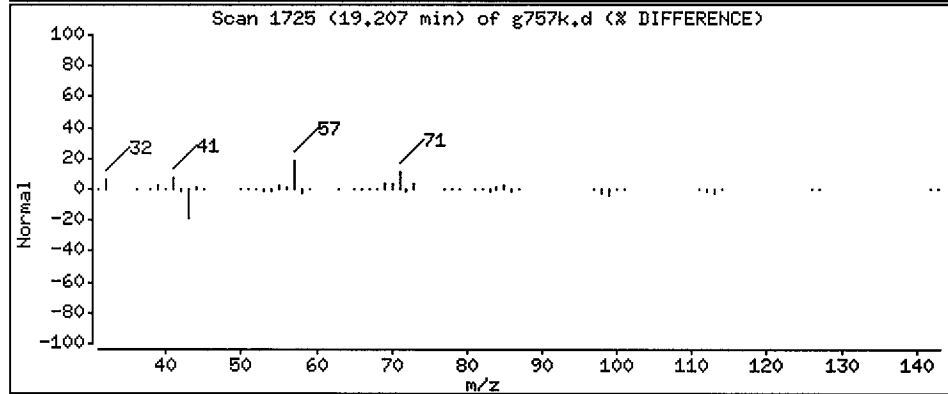
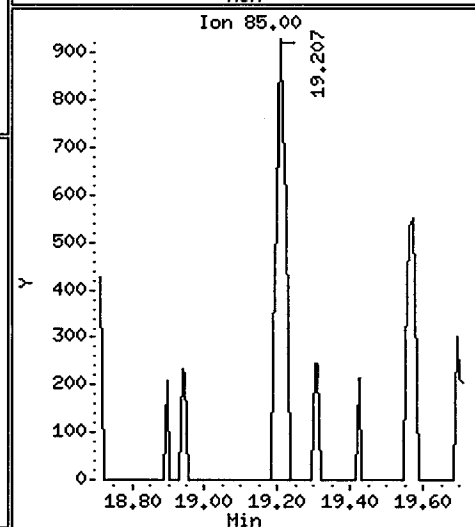
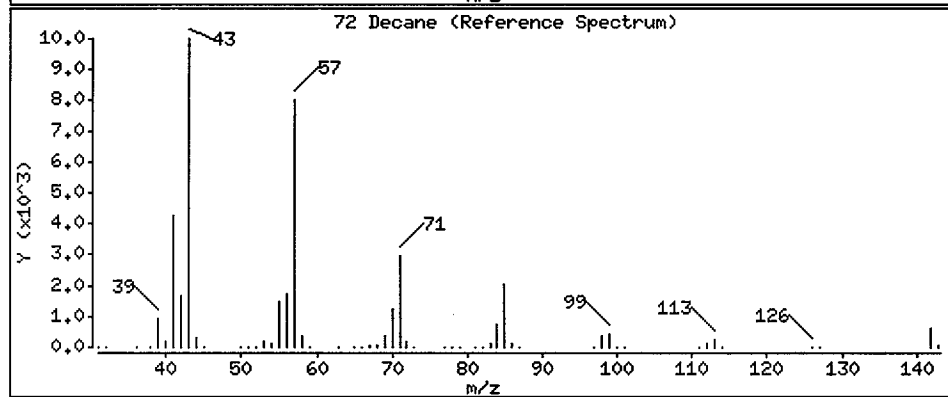
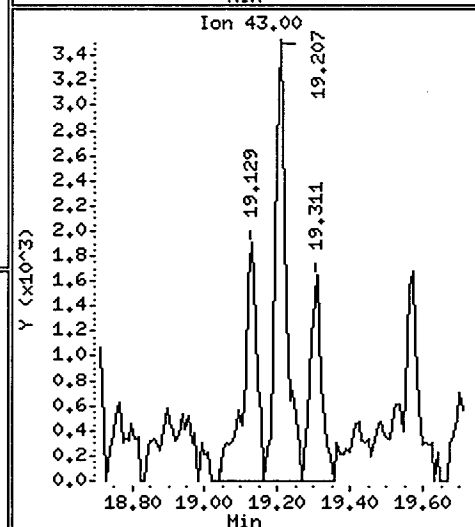
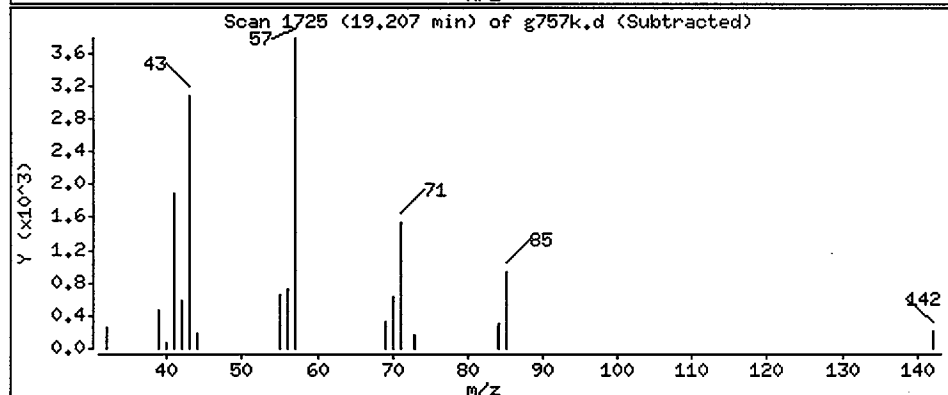
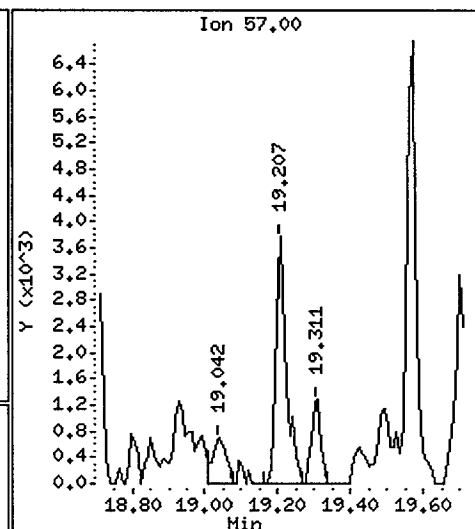
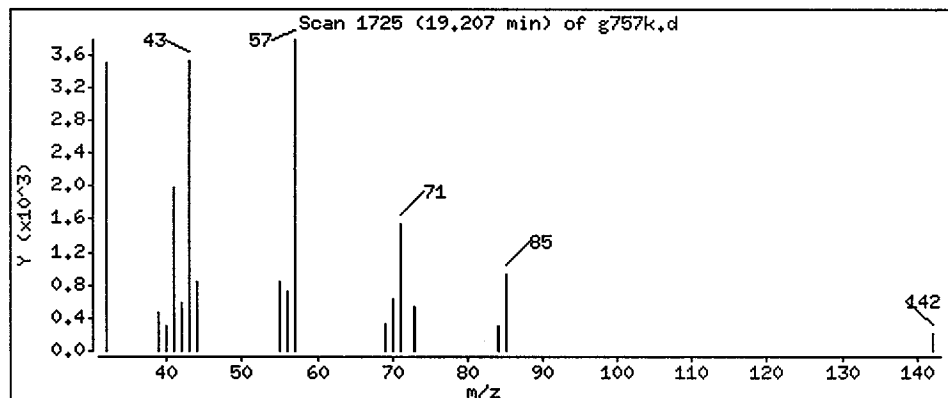
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

72 Decane

Concentration: 0.2141 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

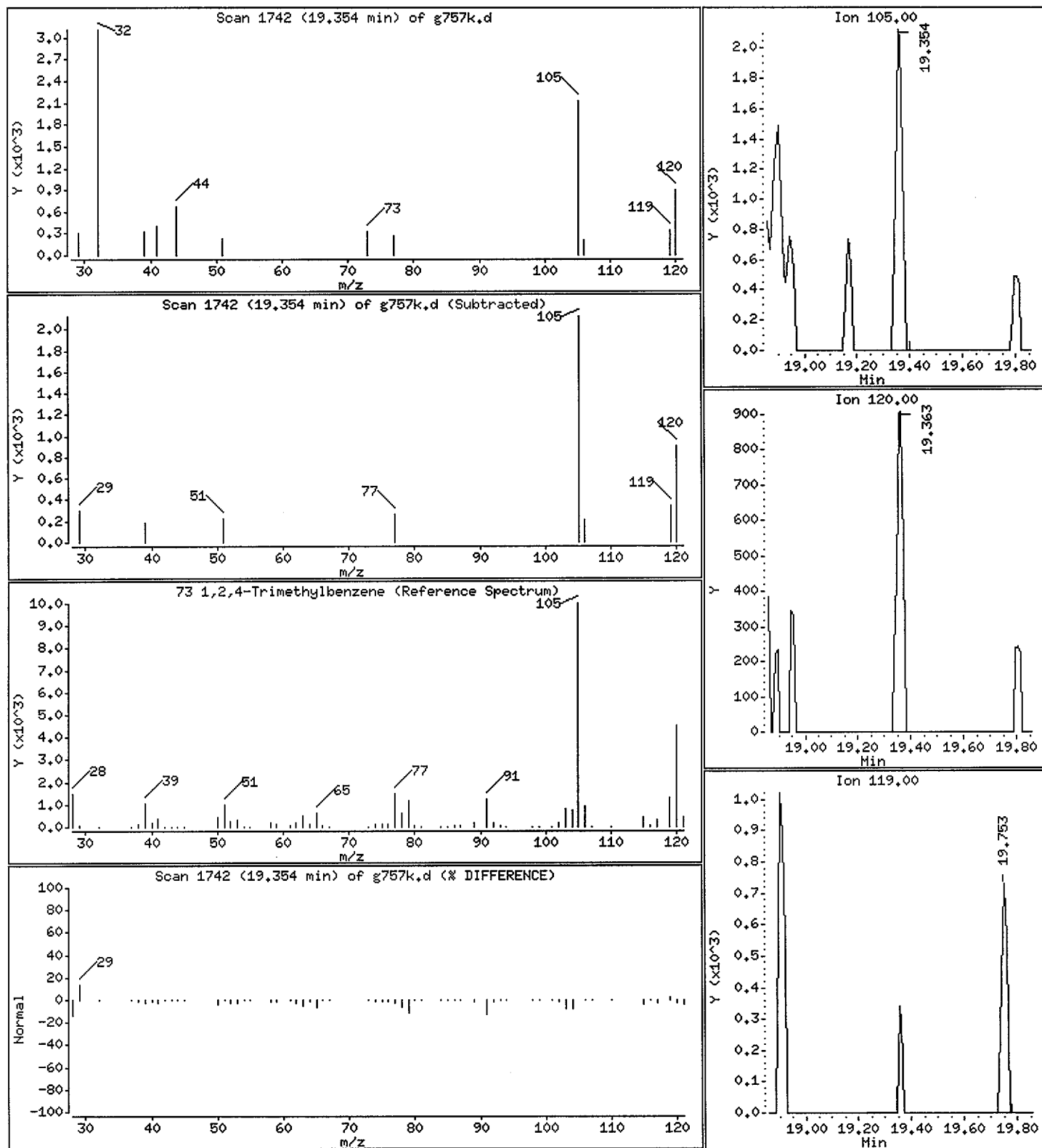
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

73 1,2,4-Trimethylbenzene

Concentration: 0.09092 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date: 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

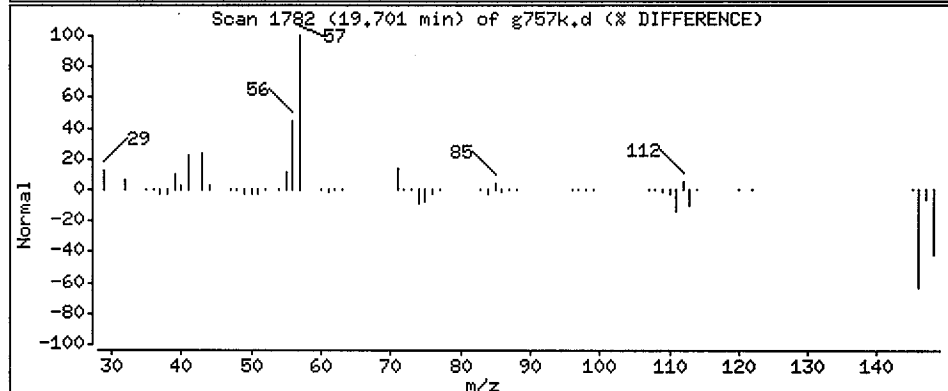
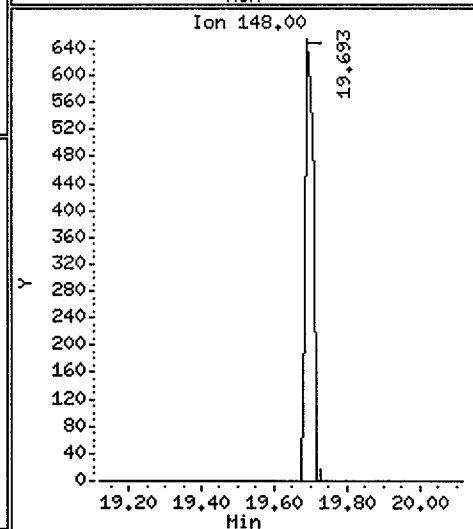
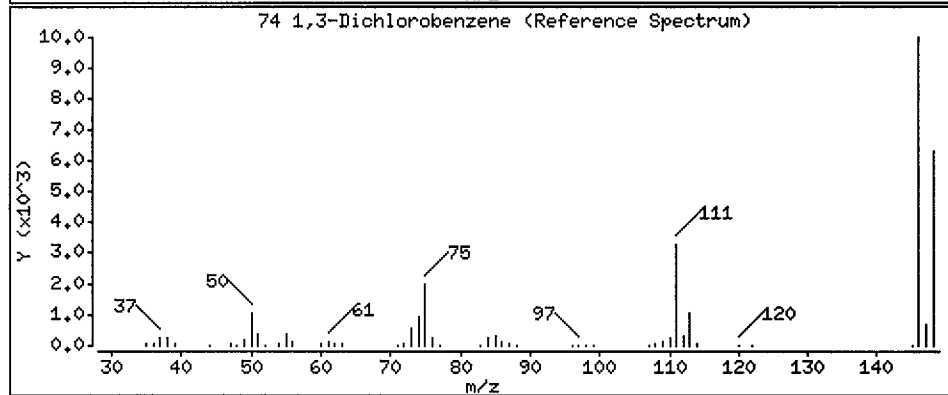
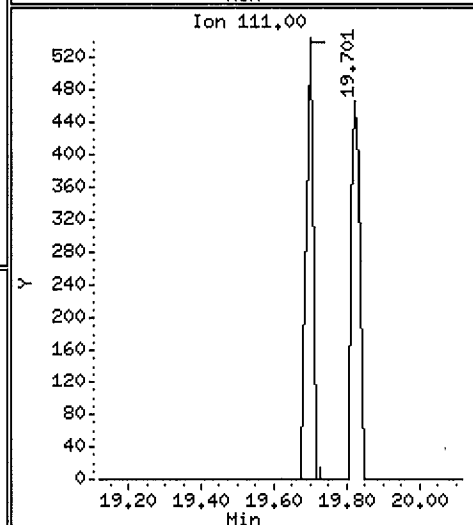
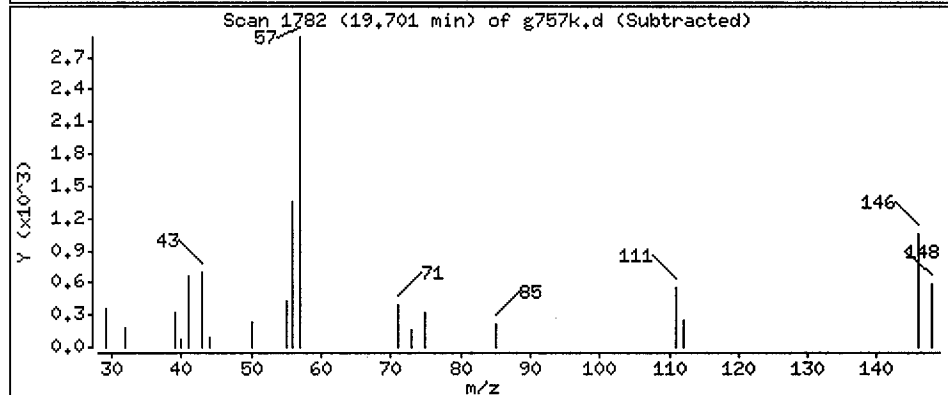
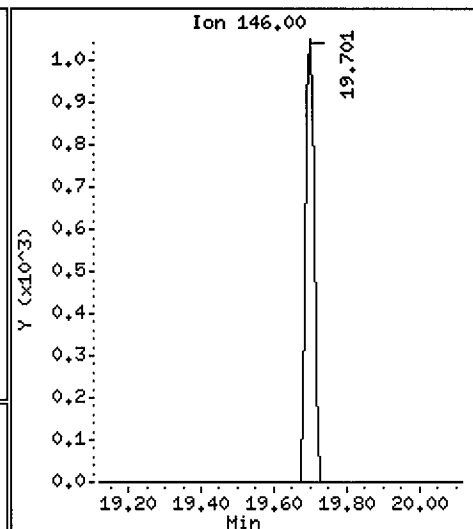
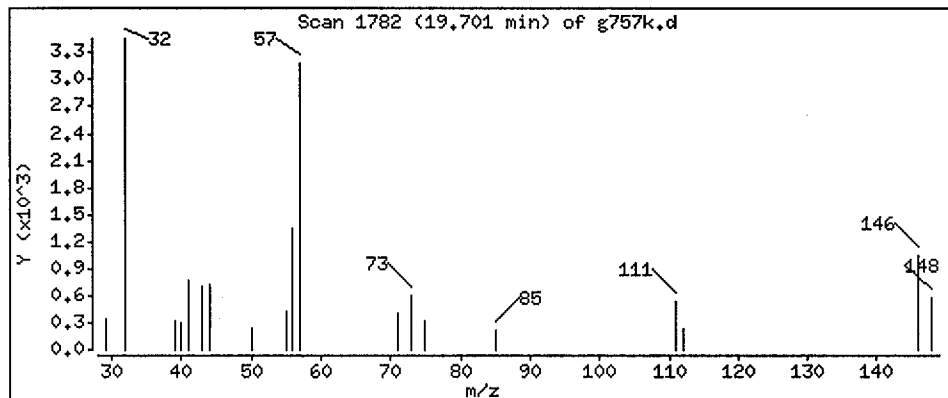
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

74 1,3-Dichlorobenzene

Concentration: 0.05545 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date: 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

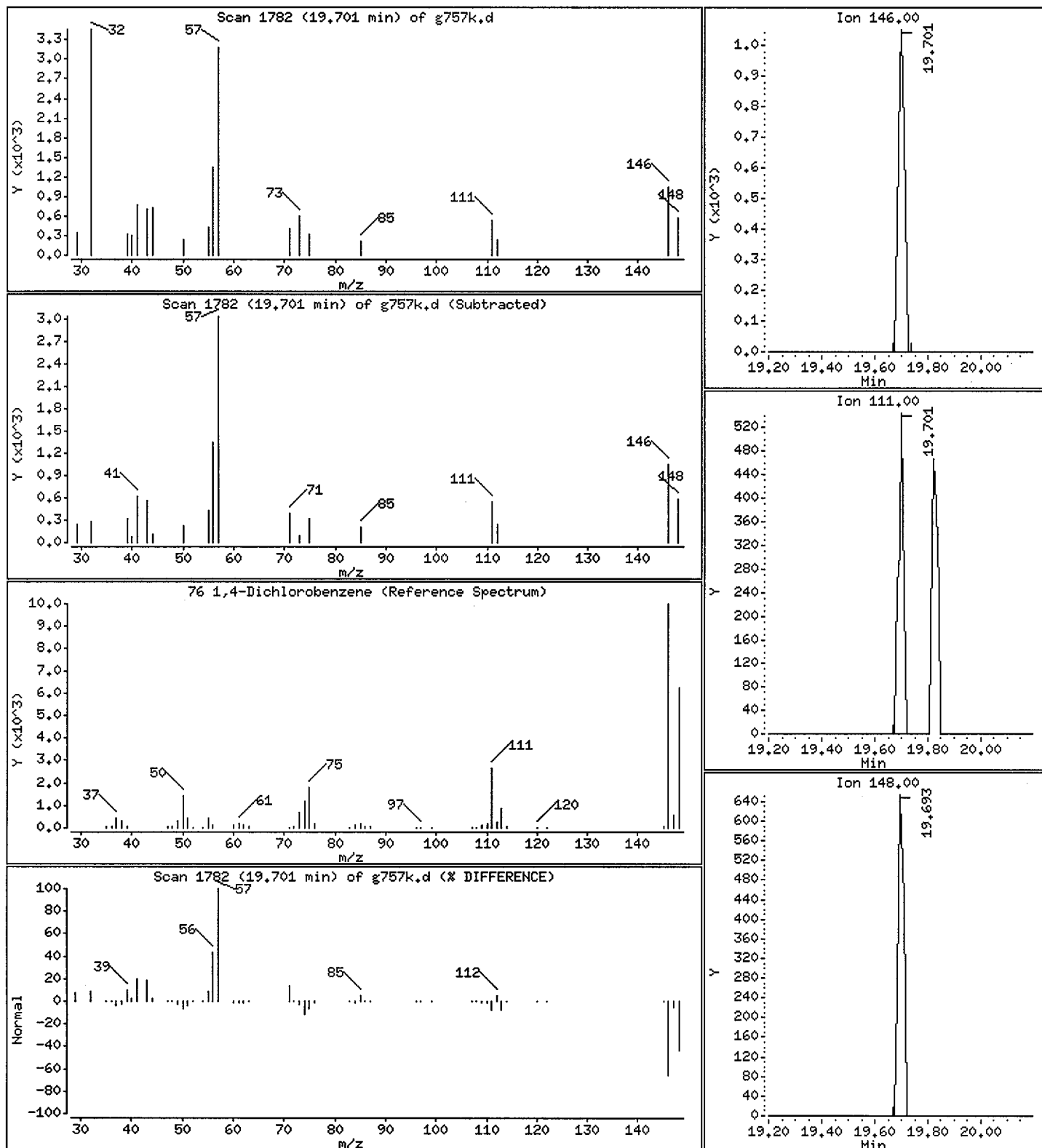
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

76 1,4-Dichlorobenzene

Concentration: 0.05513 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date: 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

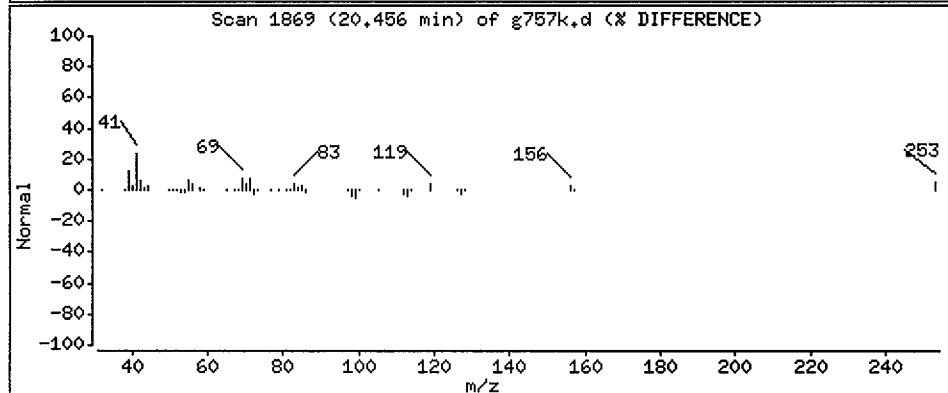
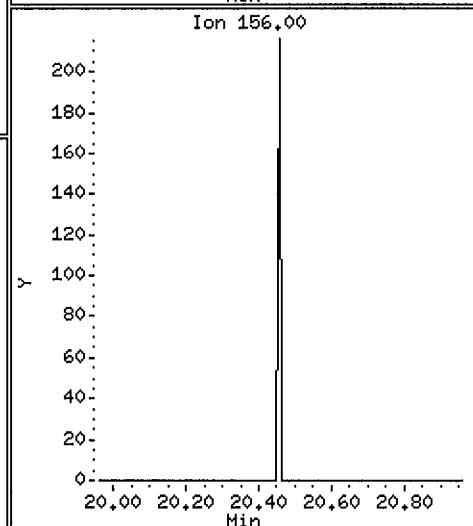
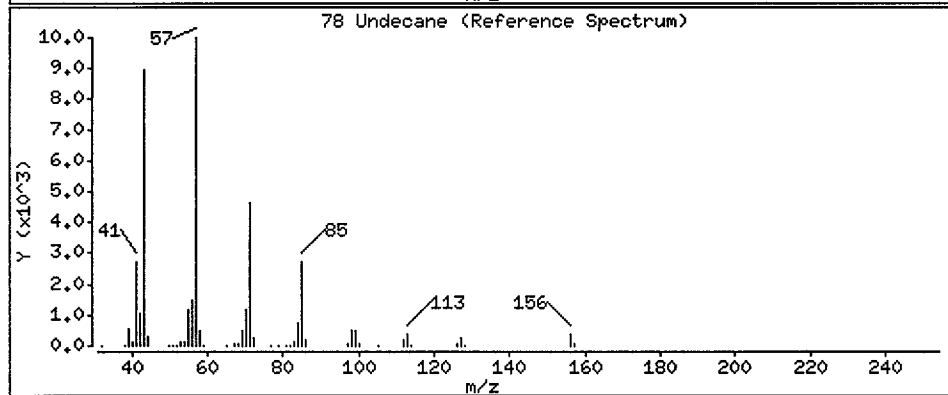
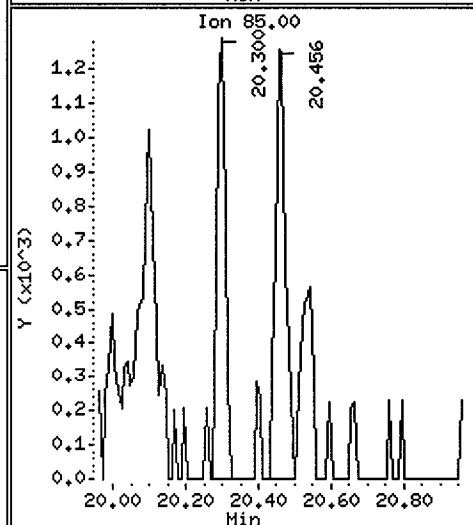
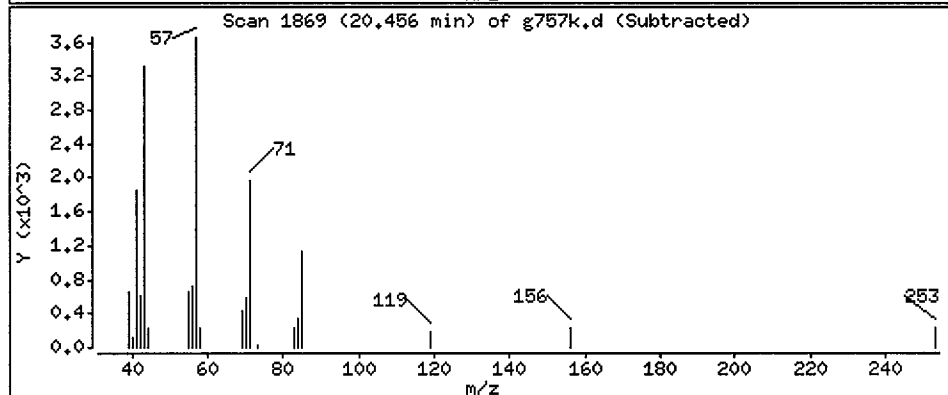
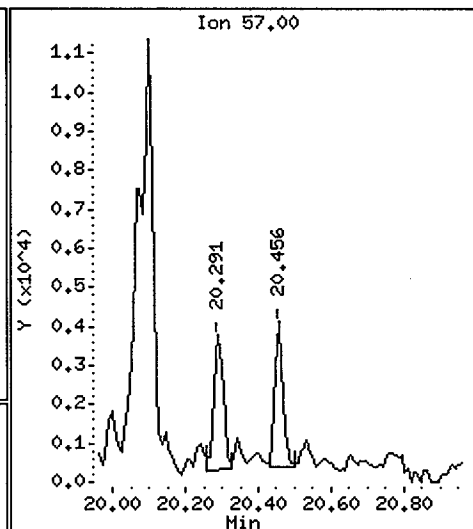
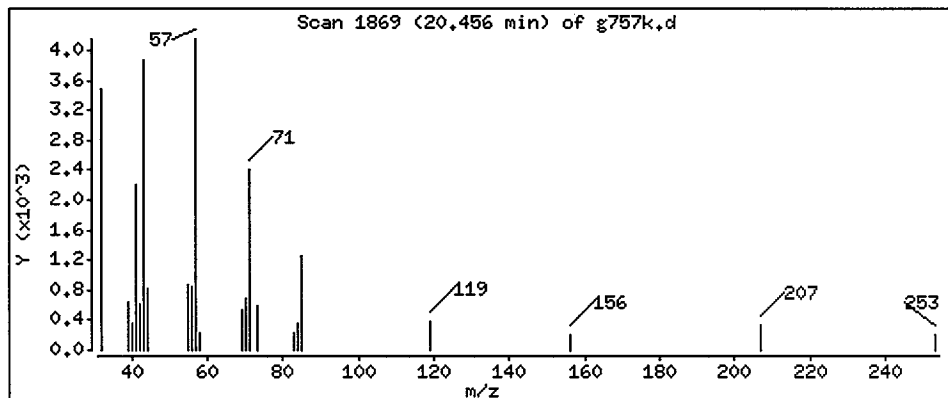
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

78 Undecane

Concentration: 0.1676 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

Volume Injected (uL): 500.0

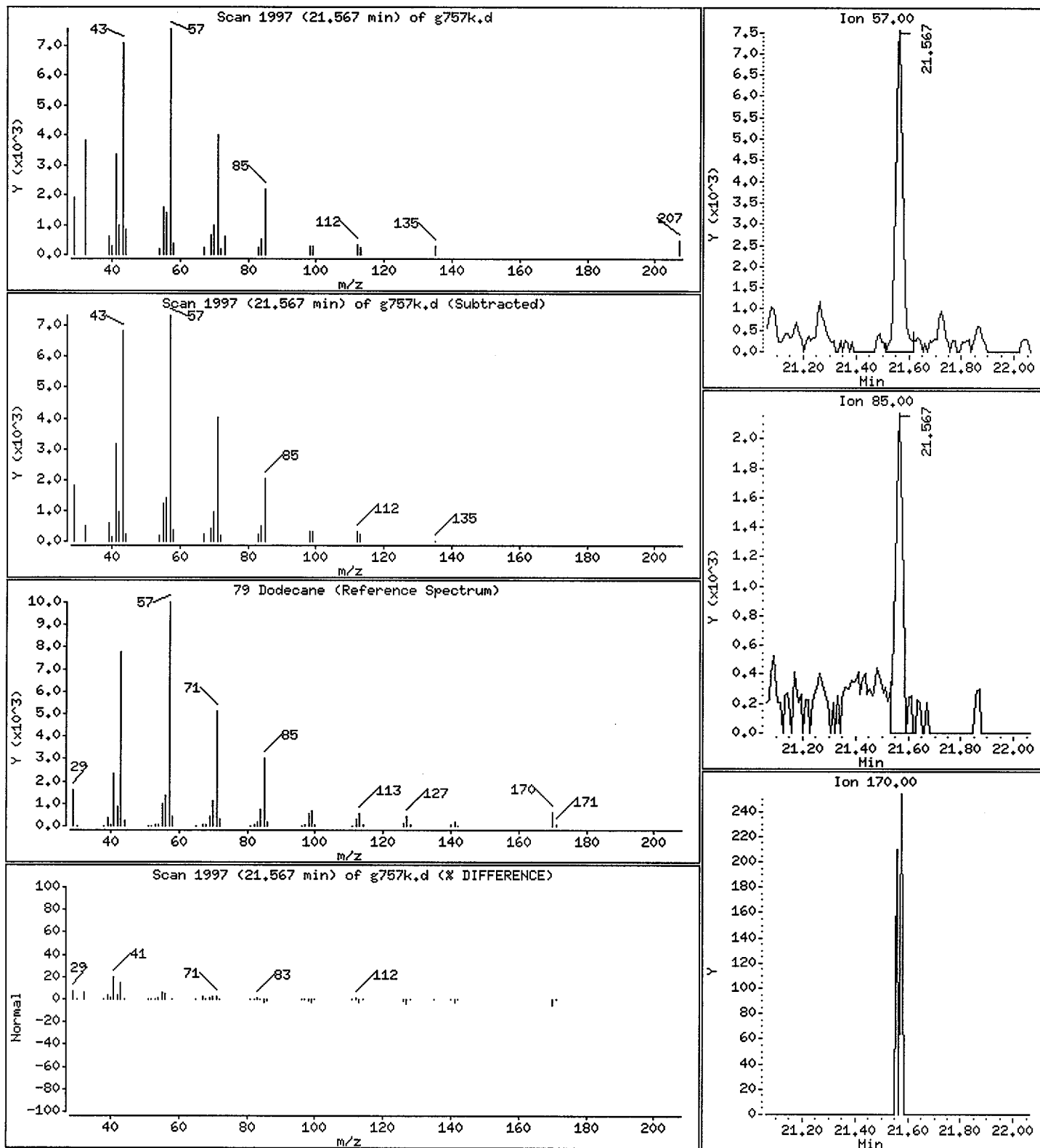
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

79 Dodecane

Concentration: 0.5202 ppb(v/v)



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
 Report Date: 21-Apr-2005 12:39

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/g757k.d
 Lab Smp Id: G757K1AA Client Smp ID: SV-05-03
 Inj Date : 21-APR-2005 09:28
 Operator : 7126 Inst ID: mt.i
 Smp Info : G757K1AA,,0,,
 Misc Info : T042005,LA,bridge.sub,,,1115 ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 12:22 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	10.114	393327	10.000
* 3 Chlorobenzene-d5	16.708	509705	10.000

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY	LIB ENTRY	
=====	=====	=====	=====	=====	=====	=====	=====
Ethane, 1-chloro-1,1-difluoro-					CAS #: 75-68-3		
4.666	929158	23.6230414	23.62	43	NIST02.1	3500	1
Acetaldehyde					CAS #: 75-07-0		
4.909	649109	16.5030369	16.50	78	NIST02.1	69	1
Acetone					CAS #: 67-64-1		
6.418	284423	7.23120966	7.231	64	NIST02.1	206	1
2,3-Butanedione					CAS #: 431-03-8		
9.030	50547	1.28511391	1.285	40	NIST02.1	1637	1

Handwritten notes:
 A vertical arrow points from the "Ethane" entry to the "2,3-Butanedione" entry.
 The date "4/21/05" is written at the bottom.

Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d
Report Date: 21-Apr-2005 12:39

RT	HEIGHT	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL(ppb(v/v))	FINAL(ppb(v/v))		LIBRARY	LIB ENTRY	
Butanal					CAS #: 123-72-8		
9.186	111574	2.83667279	2.837	95	NIST02.1	632	1
Cobalt, (2-methyl-.eta.-3-propenyl)-(pen					CAS #: 1000157-04-3		
18.903	53387	1.04740978	1.047	45	NIST02.1	87714	3
Ethanamine, N,N-difluoro-					CAS #: 758-18-9		
28.178	77538	1.52123287	1.521	1	NIST02.1	1090	3

4/21/05

Data File: /var/chem/gcms/mt,i/T042005,b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt,i

Sample Info: G757K1AA,,0,,

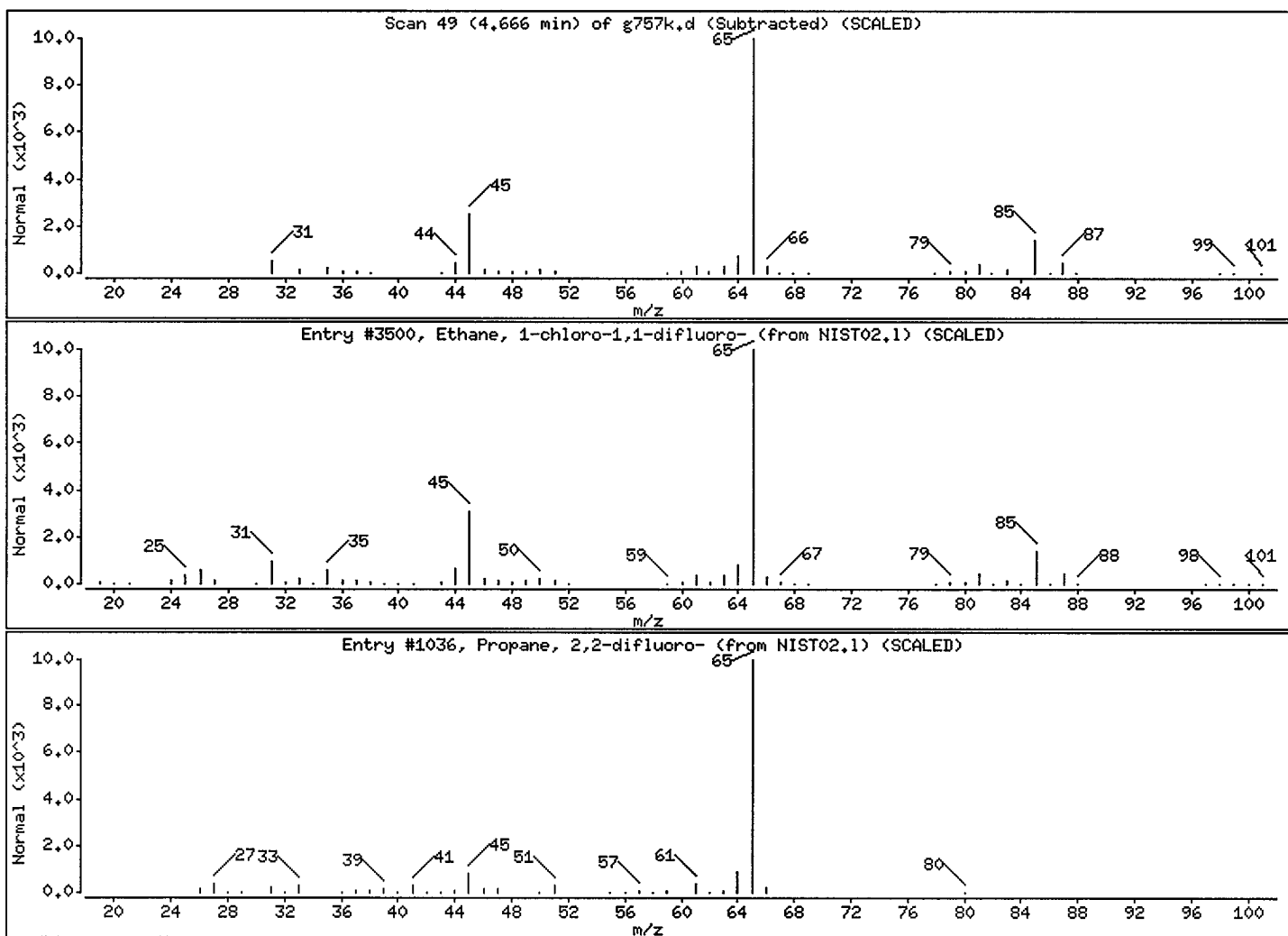
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1-chloro-1,1-difluoro-	75-68-3	NIST02.1	3500	43	C2H3ClF2	100
Propane, 2,2-difluoro-	420-45-1	NIST02.1	1036	43	C3H6F2	80



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

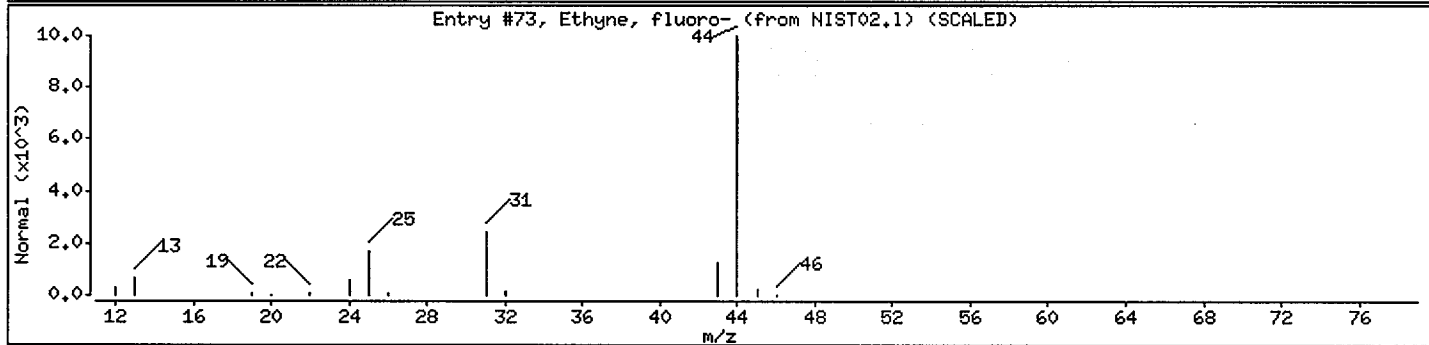
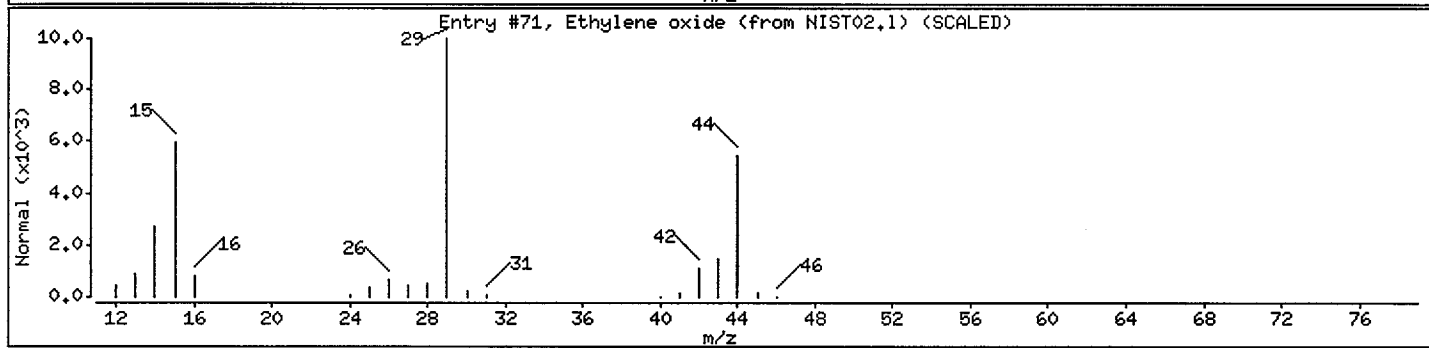
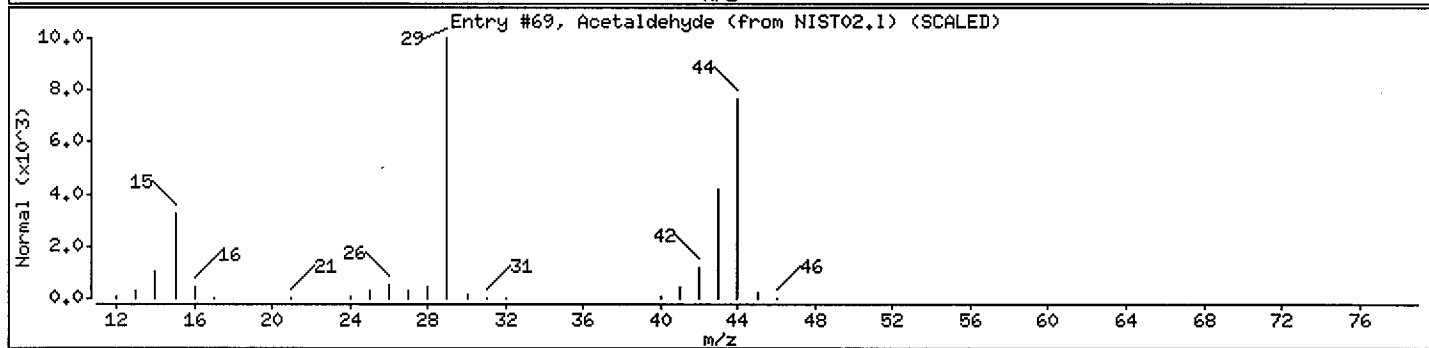
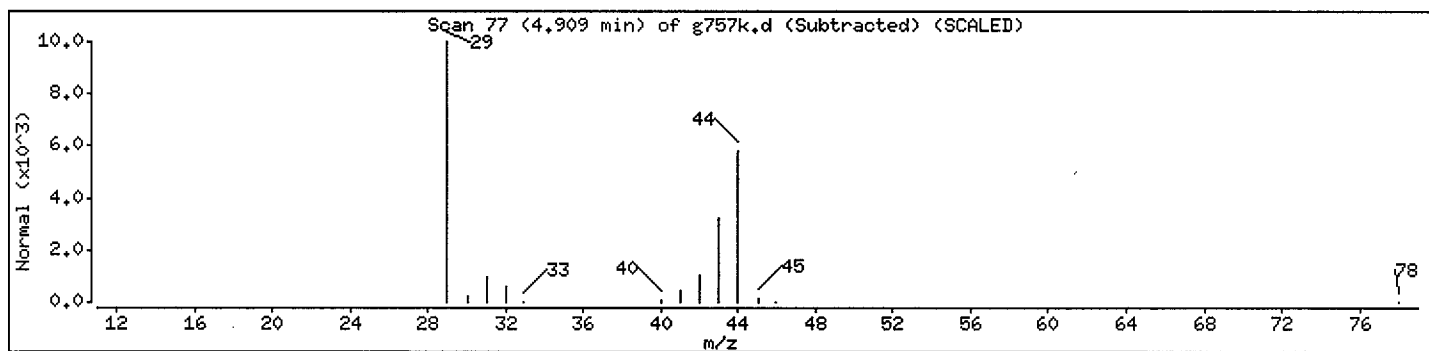
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetaldehyde	75-07-0	NIST02.1	69	78	C ₂ H ₄ O	44
Ethylene oxide	75-21-8	NIST02.1	71	64	C ₂ H ₄ O	44
Ethyne, fluoro-	2713-09-9	NIST02.1	73	5	C ₂ HF	44



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

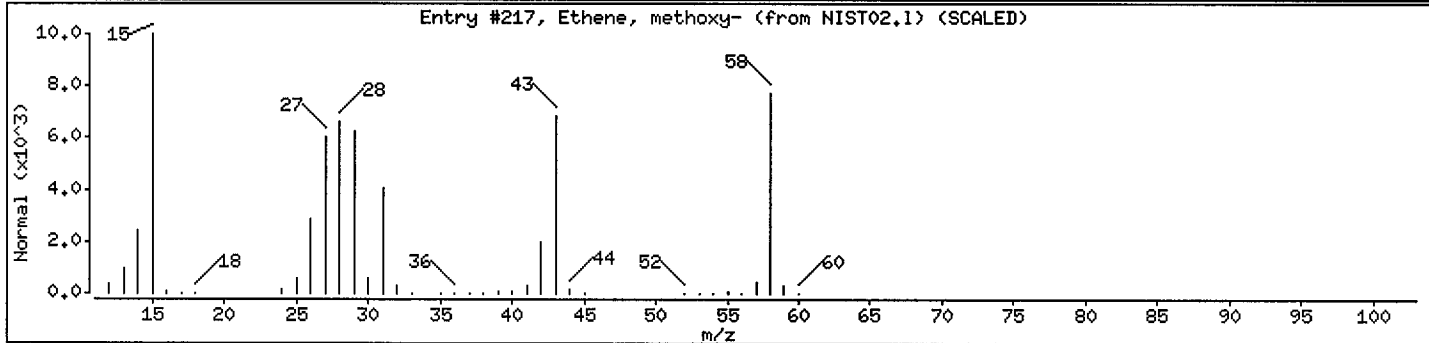
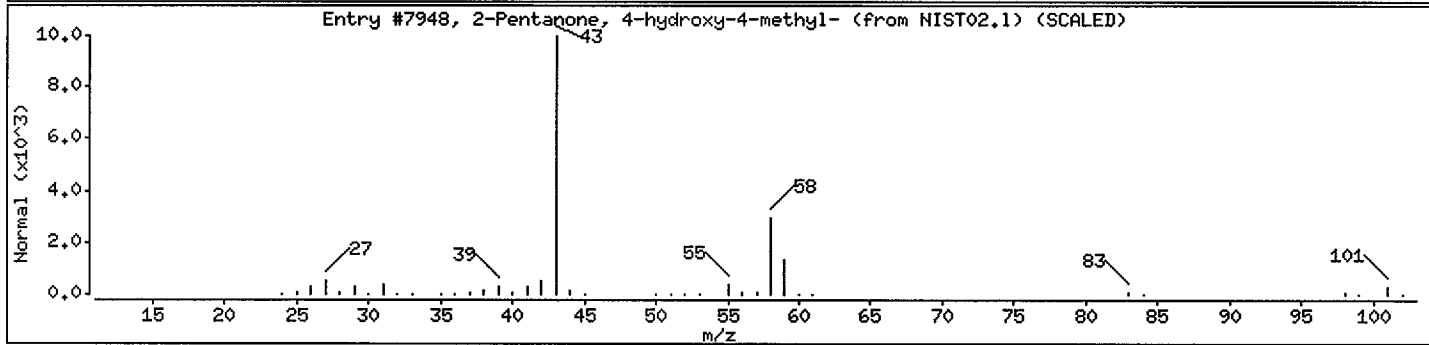
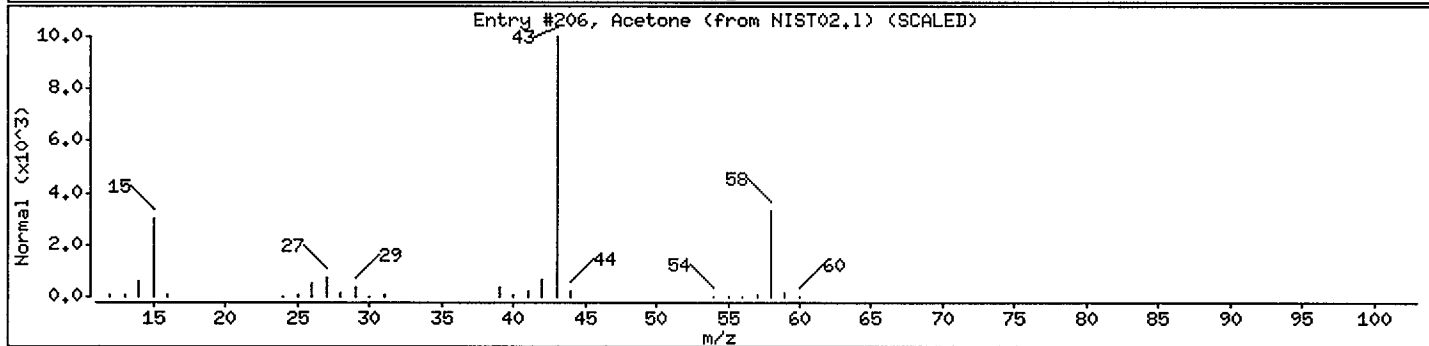
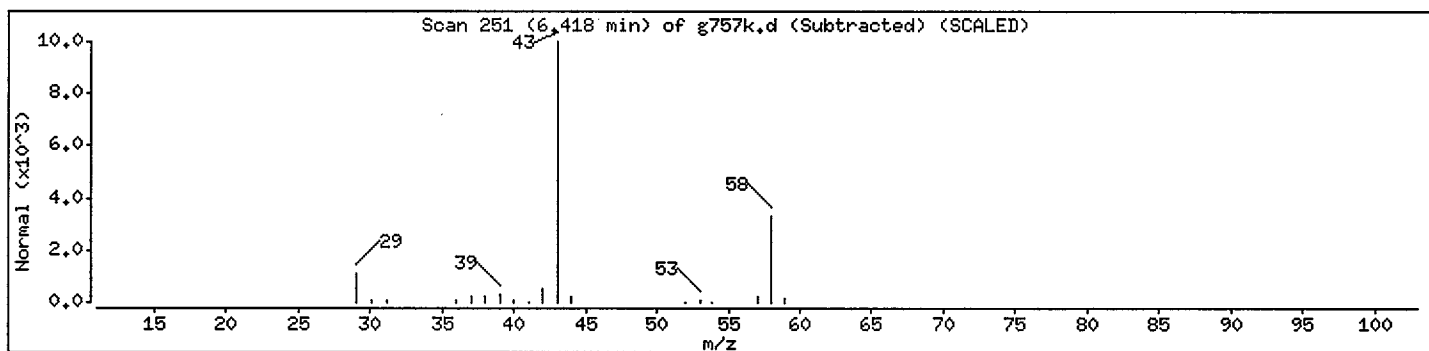
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetone	67-64-1	NIST02.1	206	64	C3H6O	58
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST02.1	7948	9	C6H12O2	116
Ethene, methoxy-	107-25-5	NIST02.1	217	4	C3H6O	58



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

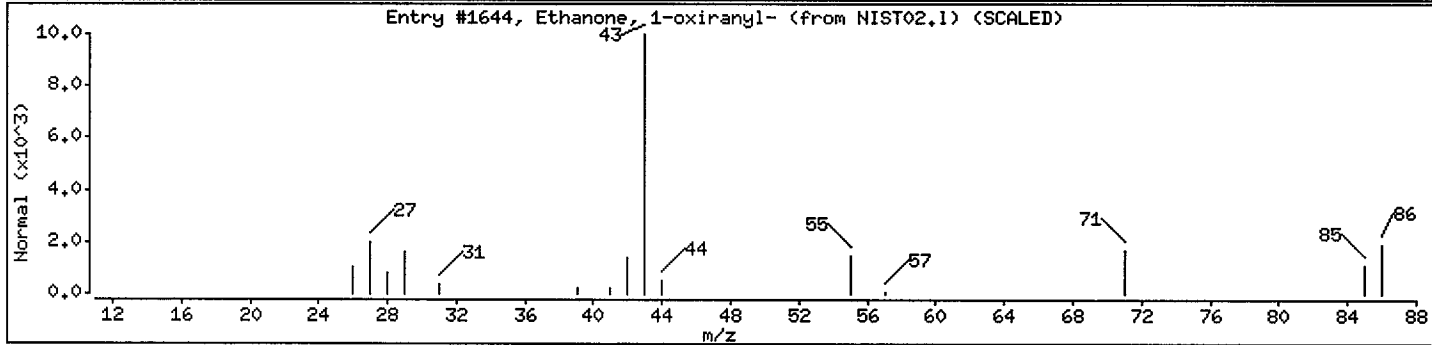
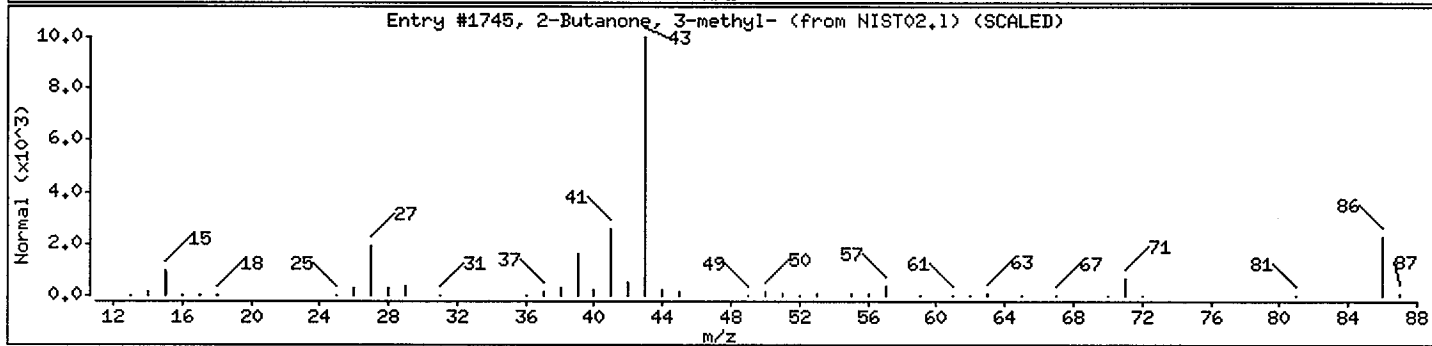
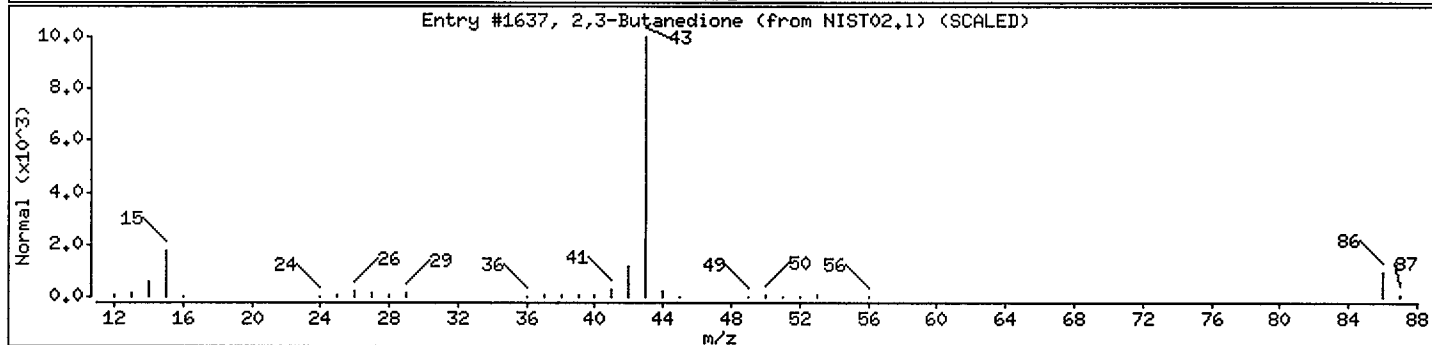
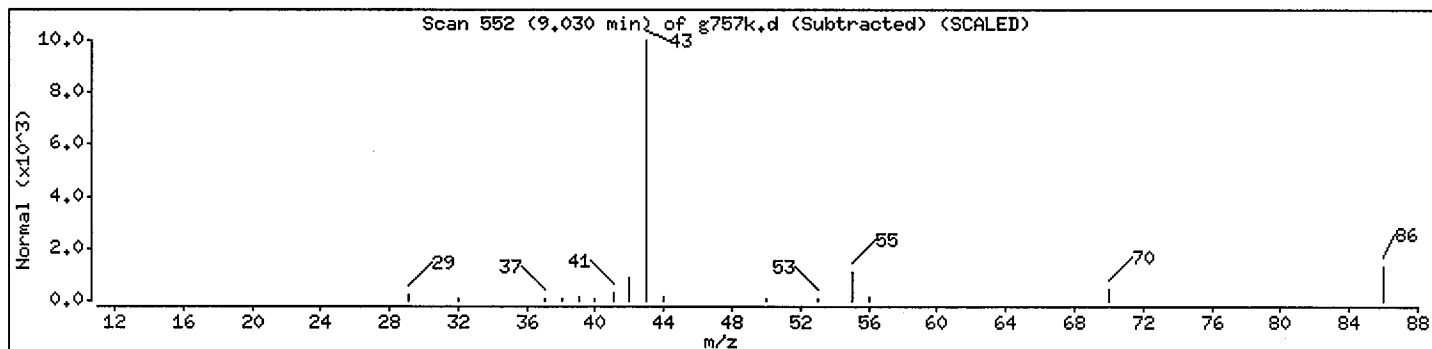
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,3-Butanedione	431-03-8	NIST02.1	1637	40	C4H6O2	86
2-Butanone, 3-methyl-	563-80-4	NIST02.1	1745	7	C5H10O	86
Ethanone, 1-oxiranyl-	4401-11-0	NIST02.1	1644	7	C4H6O2	86



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

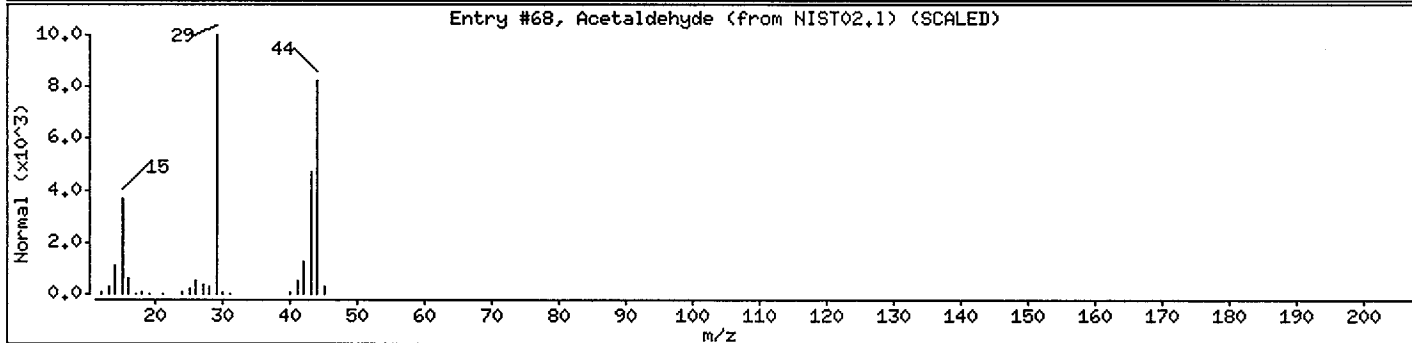
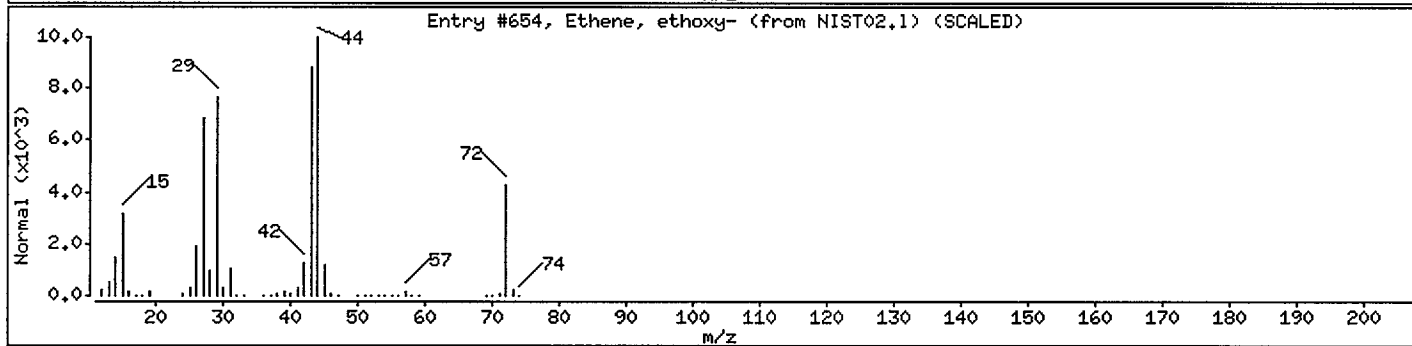
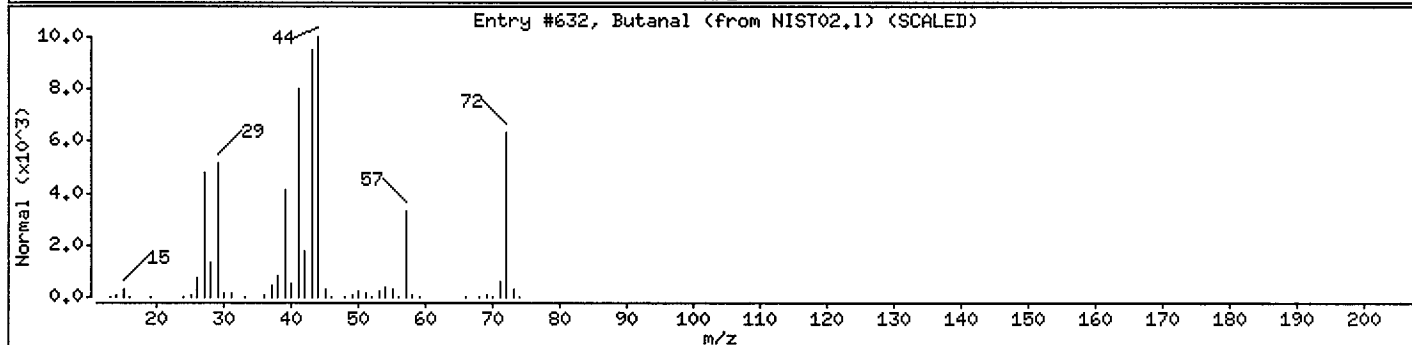
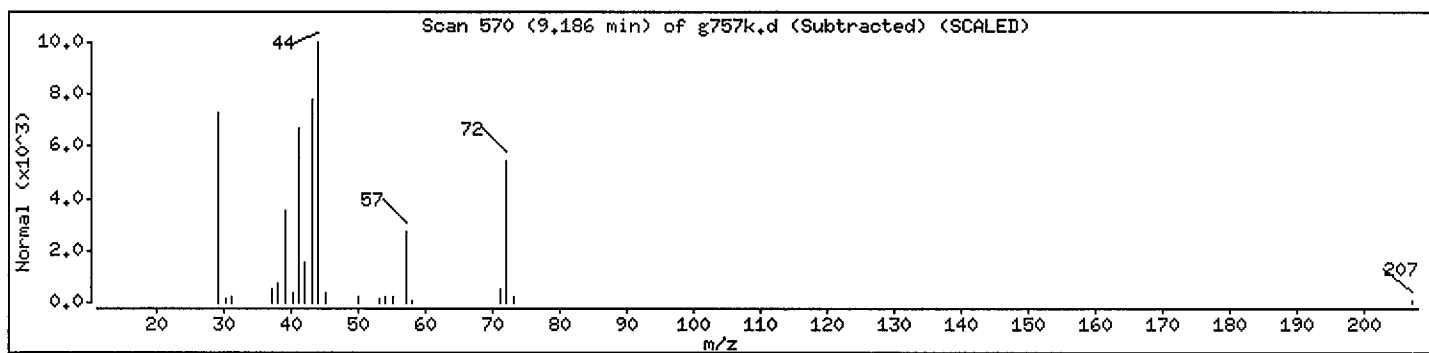
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanal	123-72-8	NIST02.1	632	95	C ₄ H ₈ O	72
Ethene, ethoxy-	109-92-2	NIST02.1	654	80	C ₄ H ₈ O	72
Acetaldehyde	75-07-0	NIST02.1	68	52	C ₂ H ₄ O	44



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: C757K1AA,,0,,

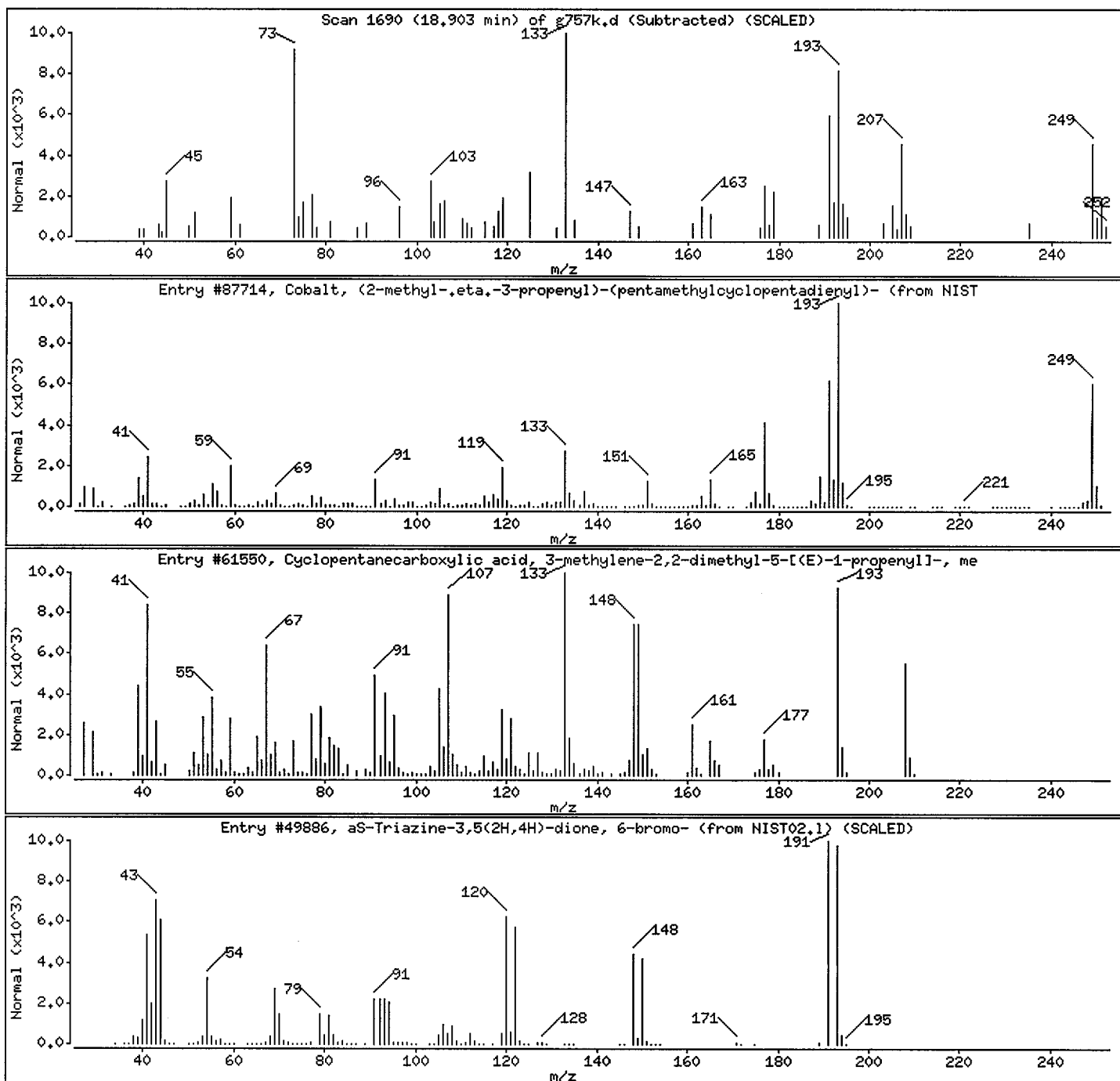
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cobalt, (2-methyl-.eta.-3-propenyl)-(pen	1000157-04-3	NIST02.1	87714	45	C14H22Co	249
Cyclopentanecarboxylic acid, 3-methylene	1000159-44-4	NIST02.1	61550	25	C13H20O2	208
aS-Triazine-3,5(2H,4H)-dione, 6-bromo-	4956-05-2	NIST02.1	49886	22	C3H2BrN3O2	191



Data File: /var/chem/gcms/mt.i/T042005.b/g757k.d

Date : 21-APR-2005 09:28

Client ID: SV-05-03

Instrument: mt.i

Sample Info: G757K1AA,,0,,

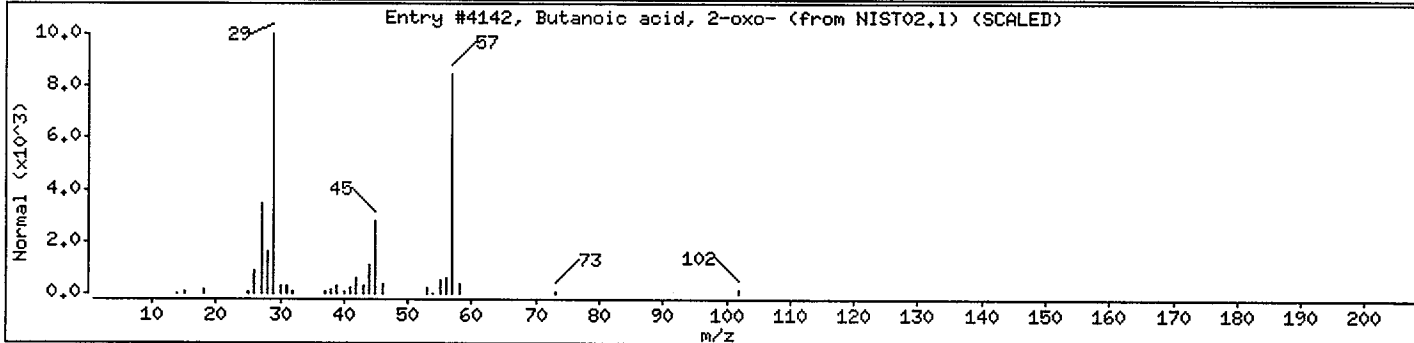
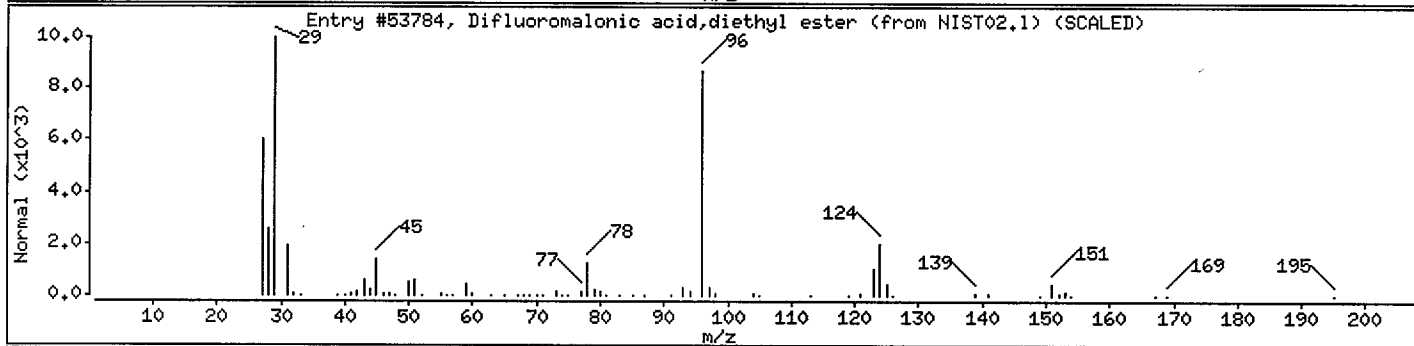
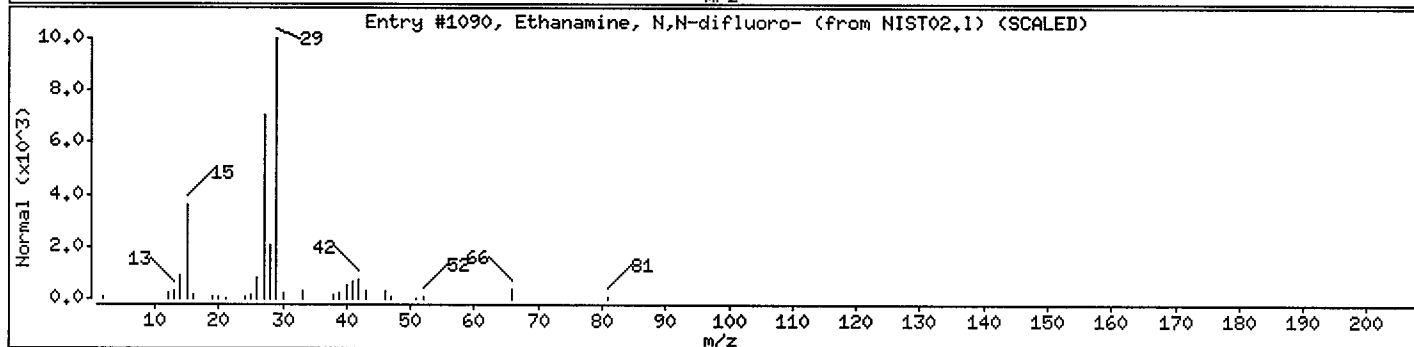
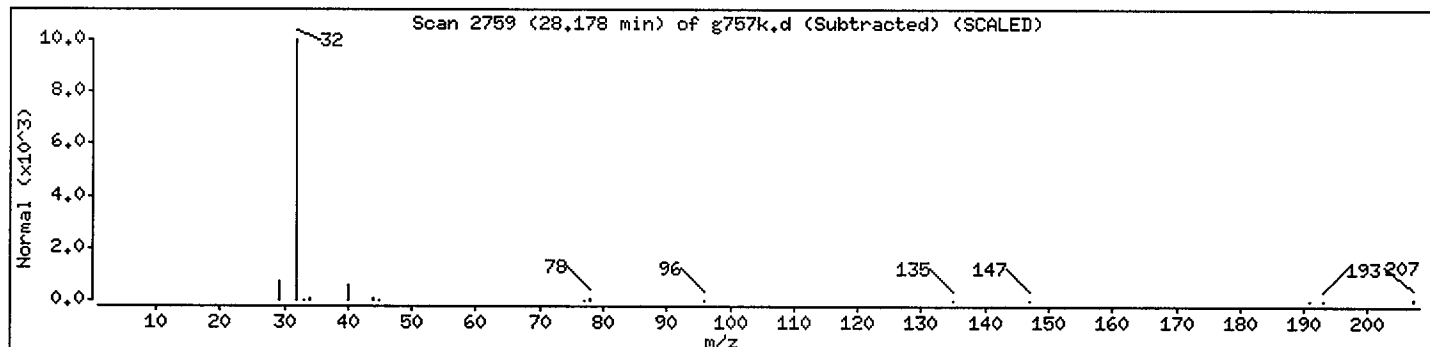
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanamine, N,N-difluoro-	758-18-9	NIST02.1	1090	1	C2H5F2N	81
Difluoromalonic acid,diethyl ester	680-65-9	NIST02.1	53784	1	C7H10F2O4	196
Butanoic acid, 2-oxo-	600-18-0	NIST02.1	4142	1	C4H6O3	102



URS Corporation
Client Sample ID: 20050406-TB-1
GC/MS Volatiles

Lot-Sample # H5D120102 - 005

Work Order # G757L1AA

Matrix.....: AIR

Date Sampled...: 4/6/05

Date Received...: 4/8/05

Prep Date.....: 4/22/05

Analysis Date...: 4/22/05

Prep Batch #.....: 5114026

Dilution Factor..: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: 20050406-TB-1
GC/MS Volatiles

Lot-Sample # H5D120102 - 005

Work Order # G757L1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
butylcyclohexane	ND	ppb(v/v)
Indane	ND	ppb(v/v)
Indene	ND	ppb(v/v)
Isopentane	ND	ppb(v/v)
1,2,3-Trimethylbenzene	ND	ppb(v/v)
2,2,4-trimethylpentane	ND	ppb(v/v)
2,3-dimethylheptane	ND	ppb(v/v)
2,3-Dimethylpentane	ND	ppb(v/v)

URS Corporation
 Client Sample ID: 20050406-TB-1
 GC/MS Volatiles

Lot-Sample #	H5D120102 - 005	Work Order #	G757L1AA	Matrix.....:	AIR
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)	
1,2-Dichloroethane-d4		106		70 - 130	
Toluene-d8		101		70 - 130	
4-Bromofluorobenzene		89		70 - 130	

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E042205.b/g7571.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042205.b/g7571.d
 Lab Smp Id: G75711AA Client Smp ID: 20050406-TB-1
 Inj Date : 22-APR-2005 20:39
 Operator : 60487 Inst ID: me.i
 Smp Info : G75711AA,1,0,,,
 Misc Info : E042205,LA,bridge.sub,,,500ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 11:15 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb(v/v)) (ppb(v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.691	9.696	(1.000)	299358	10.0000	
* 2 1,4-Difluorobenzene	114	11.837	11.843	(1.000)	1119947	10.0000	
* 3 Chlorobenzene-d5	117	16.448	16.448	(1.000)	1075975	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.905)	271776	10.5553	10.56
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1032121	10.1410	10.14
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	763162	8.88828	8.888
14 n-Butane	43	4.559	4.666	(0.470)	9519	0.10726	~~0.1072~~
52 1,1,2-Trichloroethane	97	14.414	14.581	(0.876)	119222	1.86378	~~1.864~~

4/26/05
 4/24/05

Data File: /var/chem/gcms/me.i/E042205.b/g7571.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i	Calibration Date: 22-APR-2005
Lab File ID: g7571.d	Calibration Time: 11:19
Lab Smp Id: G75711AA	Client Smp ID: 20050406-TB-1
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 60487	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,bridge.sub,,,500ML	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 Bromochloromethan	334573	199071	470075	299358	-10.53
2 1,4-Difluorobenze	1313734	781672	1845796	1119947	-14.75
3 Chlorobenzene-d5	1297315	771902	1822728	1075975	-17.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 Bromochloromethan	9.70	9.37	10.03	9.69	-0.05
2 1,4-Difluorobenze	11.84	11.51	12.17	11.84	-0.04
3 Chlorobenzene-d5	16.45	16.12	16.78	16.45	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042205.b/g7571.d
 Report Date: 24-Apr-2005 11:16

STL Knoxville

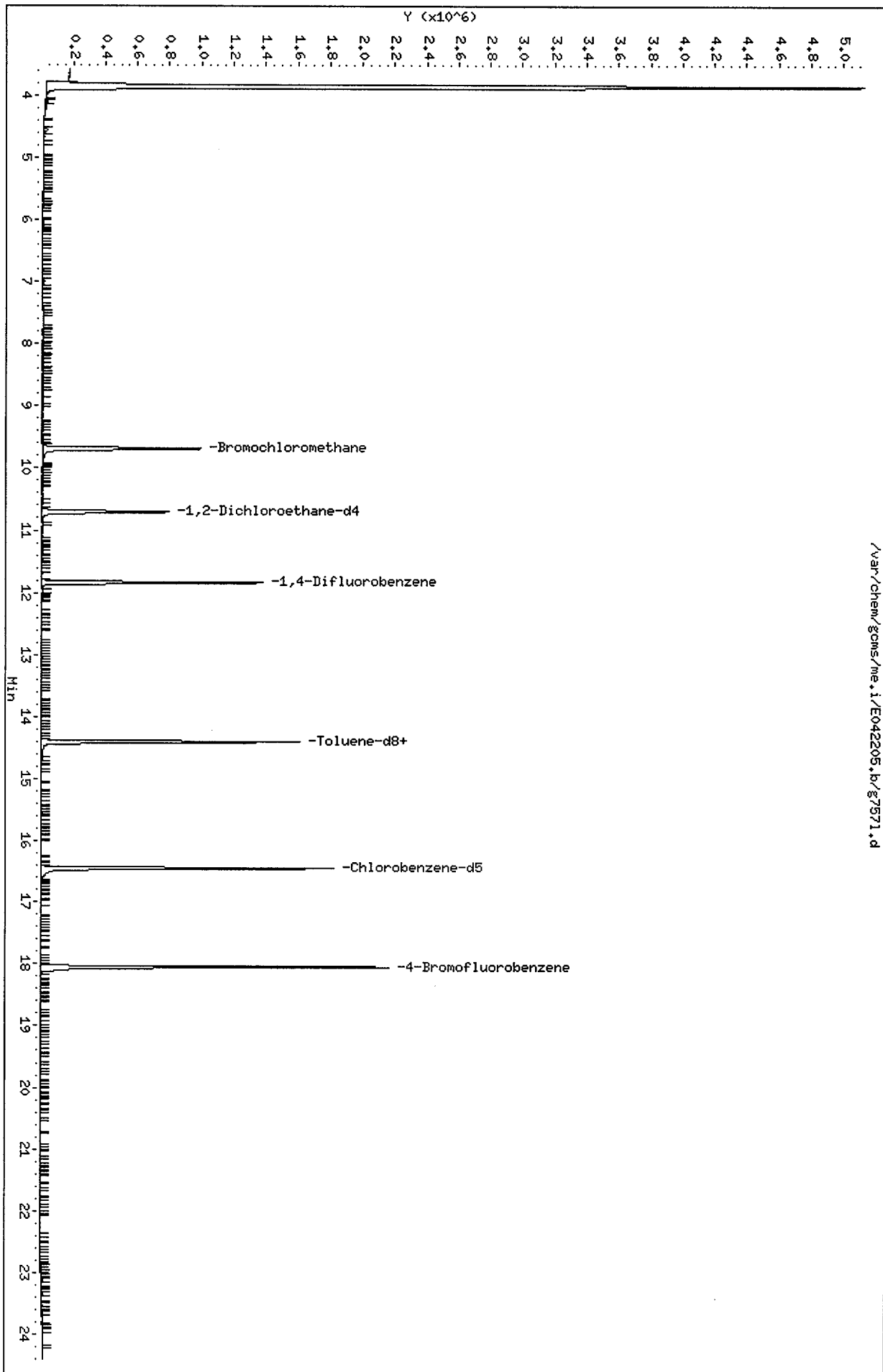
RECOVERY REPORT

Client Name: URS Corporation	Client SDG: H5D120102
Sample Matrix: GAS	Fraction: OTHER
Lab Smp Id: G757L1AA	Client Smp ID: 20050406-TB-1
Level: LOW	Operator: 60487
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: all.spk	Quant Type: ISTD
Sublist File: bridge.sub	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,bridge.sub,,,500ML	

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	10.56	105.55	70-130
\$ 5 Toluene-d8	10.00	10.14	101.41	70-130
\$ 6 4-Bromofluorobenze	10.00	8.888	88.88	70-130

Data File: /var/chem/gcms/me.i/E042205.b/g7571.d
Date : 22-APR-2005 20:39
Client ID: 20050406-TB-1
Sample Info: G757100.1.0.0
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042205.b/g7571.d

Date : 22-APR-2005 20:39

Client ID: 20050406-TB-1

Instrument: me.i

Sample Info: G75711AA,1,0,,,

Volume Injected (uL): 500.0

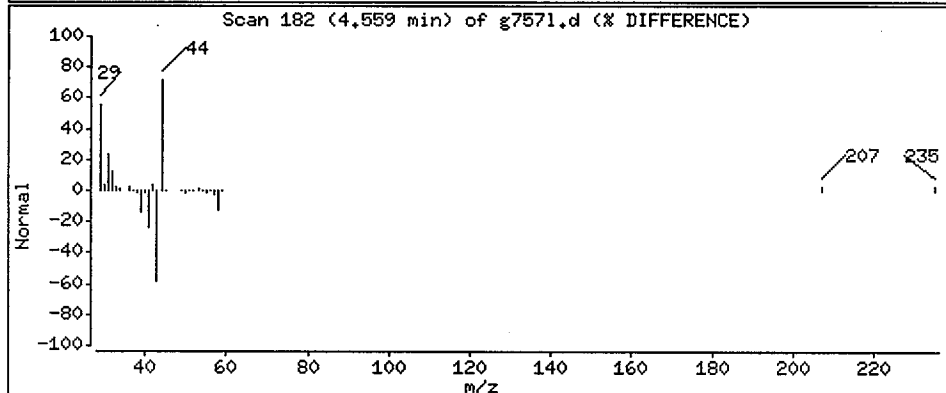
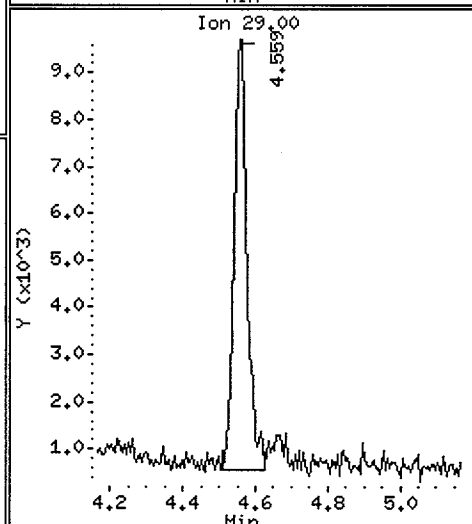
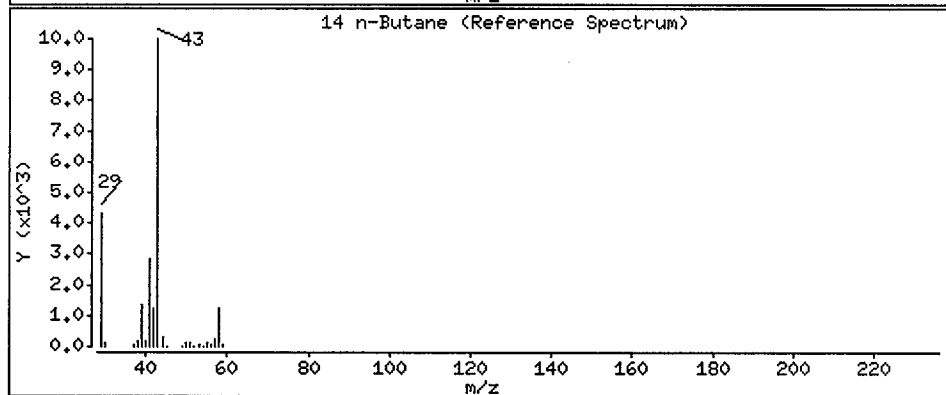
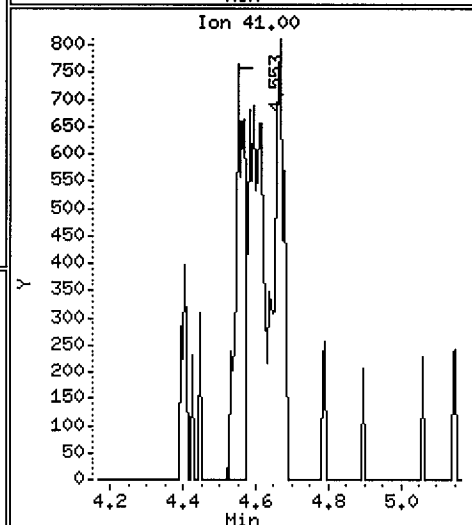
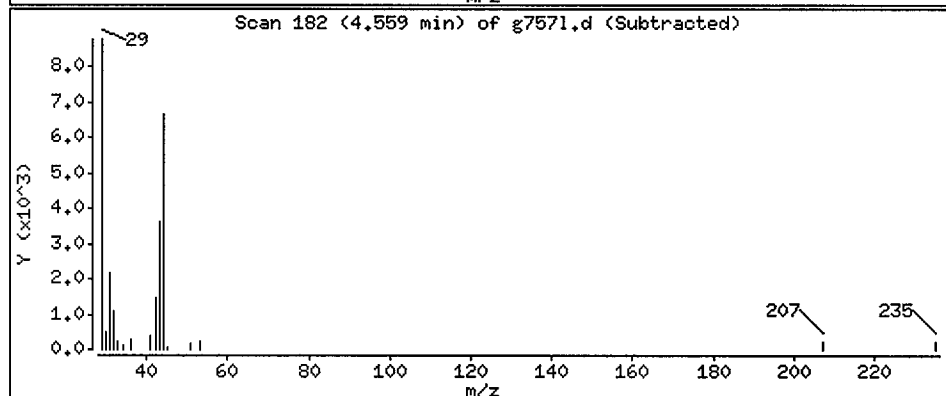
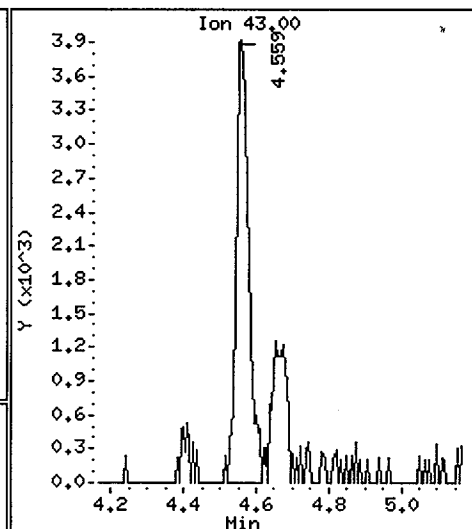
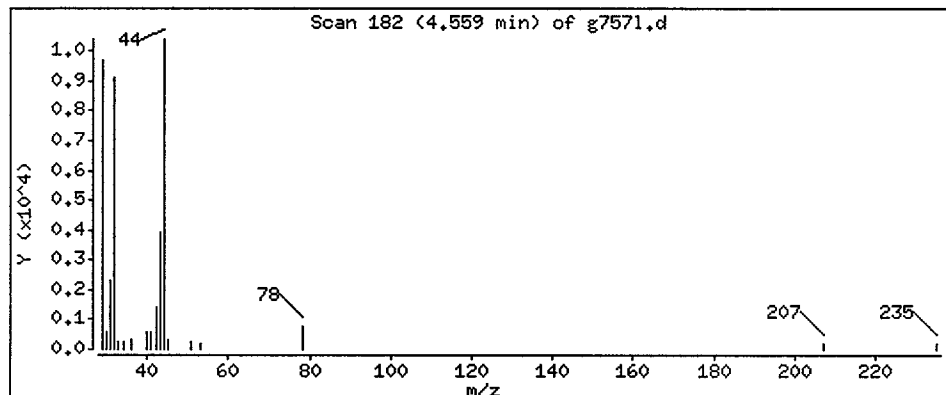
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 0.1072 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g7571.d

Date: 22-APR-2005 20:39

Client ID: 20050406-TB-1

Instrument: me.i

Sample Info: G75711AA,1,0,,,

Volume Injected (uL): 500.0

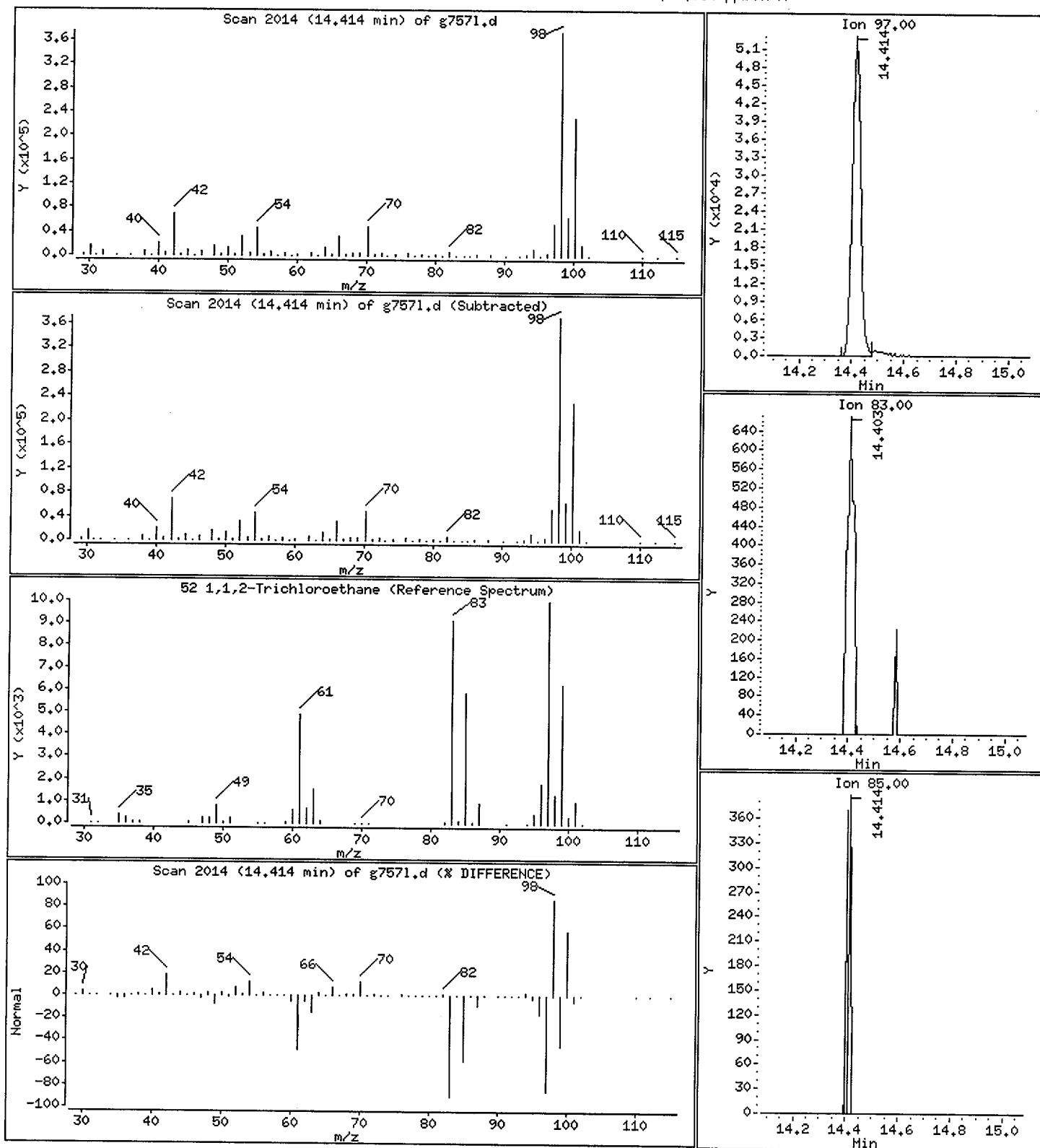
Operator: 60487

Column phase: DB-5

Column diameter: 0.32

52 1,1,2-Trichloroethane

Concentration: 1.864 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/g7571.d
 Report Date: 24-Apr-2005 14:42

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042205.b/g7571.d
 Lab Smp Id: G75711AA Client Smp ID: 20050406-TB-1
 Inj Date : 22-APR-2005 20:39
 Operator : 60487 Inst ID: me.i
 Smp Info : G75711AA,1,0,,,
 Misc Info : E042205,LA,bridge.sub,,,500ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 14:40 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: bridge.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	9.691	986640	10.000

CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ppb(v/v))	FINAL(ppb(v/v))	QUAL	LIB ENTRY	CPND #
----	-----	-----	-----	-----	-----	-----
Carbon dioxide				CAS #: 124-38-9		
3.860	5098575	51.6761433	51.68	5 NIST02.1	77	1

an
4/24/05/t

Data File: /var/chem/gcms/me.i/E042205.b/g7571.d

Date : 22-APR-2005 20:39

Client ID: 20050406-TB-1

Instrument: me.i

Sample Info: G75711AA,1,0,,,

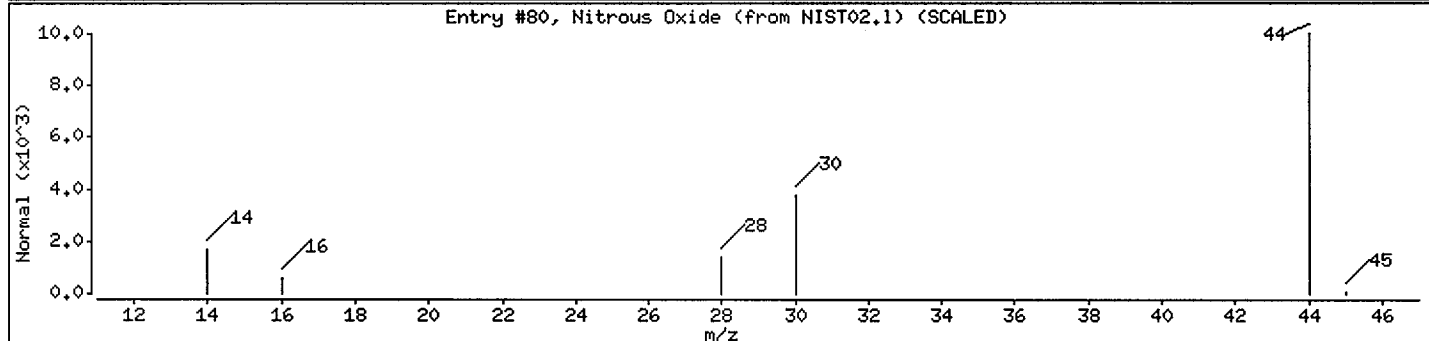
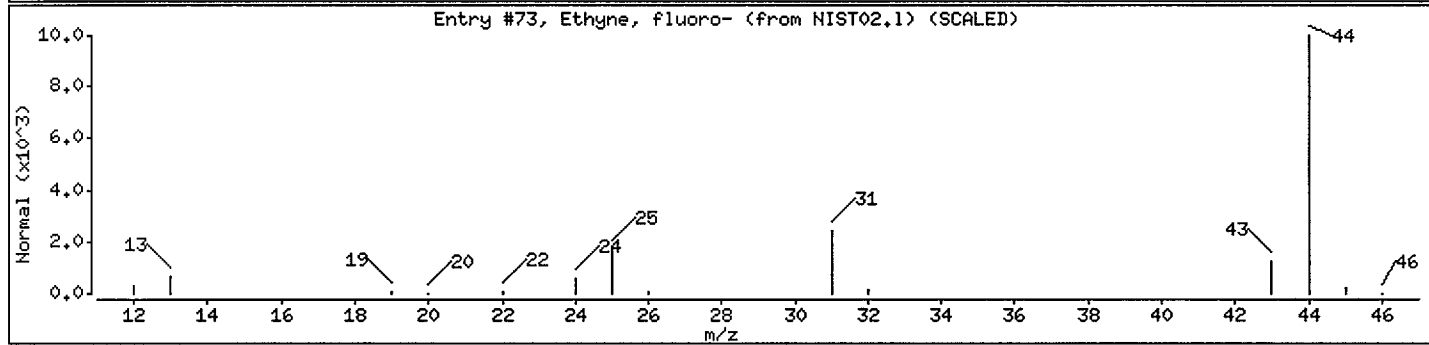
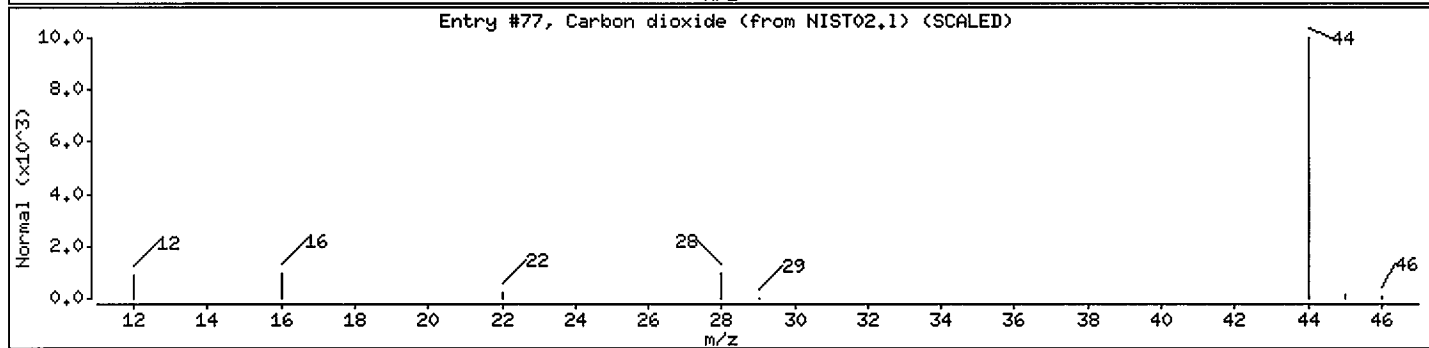
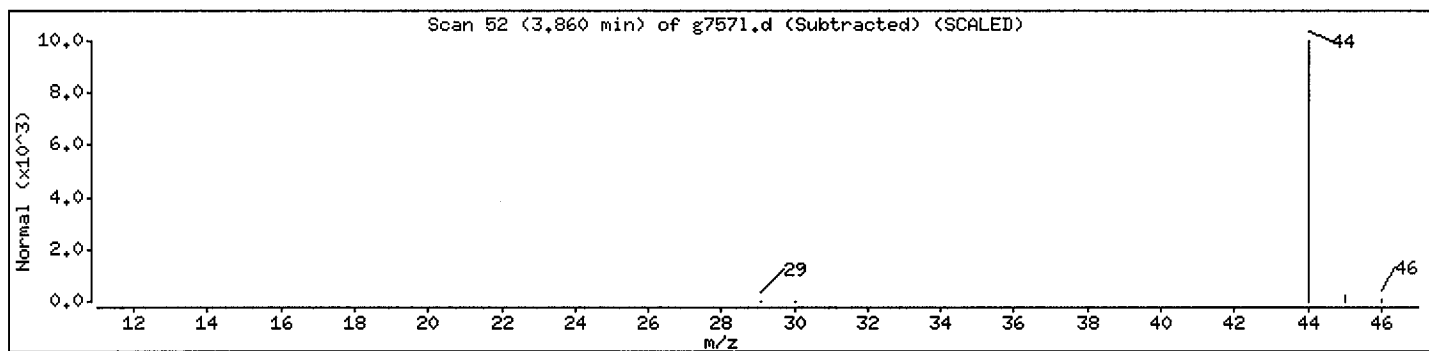
Volume Injected (uL): 500.0

Operator: 60487

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Ethyne, fluoro-	2713-09-9	NIST02.1	73	3	C2HF	44
Nitrous Oxide	10024-97-2	NIST02.1	80	2	N2O	44



Standards Data

STL Knoxville GC/MS Air Initial Calibration Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 6

200

Analysis Date:	4/15/05	Instrument::	MT	ICAL Batch/Scan Name:	TD415055	Scanned 0

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd □
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Is the second source analysis of a reference standard within limits? (65-135% R; 20-180% for benzyl chloride)		✓		~~2,3-Dimethyl butanol~~ new 4-20-05 b-pinene & d-limonene 2,3-Dimethyl butanol X + reason found SS ✓	✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓		RE 9/20/05 + made new SS w/ naph + X naphthalene. OK. see TO41905.	✓
5. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
6. Were at least 5 levels of each compound analyzed?		✓			✓
7. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓		b-pinene @ 34% RSD	✓
8. Have all peaks been auto identified? If not, list:		✓			✓
9. If curves were used, is correlation coefficient ≥ 0.990?	✓				NA
10. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves?	✓				NA
11. For linear or quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.	✓				NA
12. For linear or quadratic: origin NOT included or forced?	✓				NA
13. Is the "Y" intercept less than the RL for each curve?	✓				NA
14. RT for each IS ± 20 sec avg. RT?		✓			✓
15. Area for each IS ± 40% avg. area?		✓			✓
16. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
17. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
18. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?	✓				NA
19. Was ICAL summary form processed using correct methods and files?		✓			✓
20. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
21. Elution order checked on isomeric pairs? • dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane • trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane • vinyl acetate / hexane • cis- and trans- isomers • ethyl benzene / m/p-xylene / o-xylene • 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene • 1,3-, 1,4-, and 1,2-dichlorobenzene		✓			✓
22. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
23. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, Entech report, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations] in increasing amount order.		✓			✓

Analyst:	Date: 4/12/05	2nd Level Reviewer:	Date: 4/20/05
Comments:	Comments:		
naphthalene & mss. made new SS. OK X-naphthalene. TO41905 4/16/05	Dodecane upper range = 15 ppb/V b-pinene upper range = 15 ppb/V 2nd source reanalyzed under TO41905		

STL Knoxville
TO-14/15 RUN LOG

GCMS Analysis: TO-14/15

Inst: MT

Analyst: HUT Preventive Maintenance Performed — Qtimes Batch: 179
 Date: 4/14/05 4/15/05 System Date/Time ok (y/n): ✓ Target Batch: 70414051 70415051
 BFB Time: 0946 Surr/IS ID: V077 IS #1 Area: 198055 ICAL Batch: 70414051

Time	Lot No.	File ID	Can #	Comments	I/S	Pos	Vol* (ml)	Use	DUP
0946	time	TBFBP145	—		—	16	100	✓	—
1105	IC 7 (0.5)	LOPIME	CK-1311		—	14	25	✓	—
1147	IC 1 (1.0)	TICP151	CK-1311	TICP151	—	1214	500	✓	—
1105	IC 7 (0.5)	7	7	7	—	1214	250	✓	—
1023	IC 6 (0.2)	6	↓		—	1214	100	✓	—
1229	IC 8 (2.5)	8	CK-1308	25ml	—	15	2726	✓	—
1312	IC 2	2	↓		—	1	50	✓	—
1720	IC 3	3	↓		—	1	100	✓	—
1803	IC 4	4	↓		—	1	150	✓	—
1846	IC 5	5	↓		—	1	300	✓	—
1930	Blk	TB1K2145	—		—	16	500	✓	—
2013	ICV	TICVD145	CK-1309	↓ naph	—	13	100	✓	—
2055	LCS	TLCS D15	CK-1307		STD	16	100	N	—
2138	Blk	TB1KD15A	—		—	16	500	N	—
2221	↓	↓ B	—		—	16	500	N	—

* Entech programmed volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calculations.

Analyst: HUTDate: 4/17/05

MS027R11.DOC, 5/30/03

050415
STL-Knoxville
TO-14 Autosampler Log
'MT'

Sample	Volume	Position	Date	Time
BFB	102ml	16	4/15/2005	9:46:42 AM
IC6	102ml	12	4/15/2005	10:24:03 AM
IC7	252ml	12	4/15/2005	11:05:58 AM
IC1	502ml	12	4/15/2005	11:47:54 AM
IC8	26ml	15	4/15/2005	12:30:04 PM
IC2	51ml	15	4/15/2005	1:12:55 PM
IC3	101ml	15	4/15/2005	5:21:33 PM
IC4	151ml	15	4/15/2005	6:04:30 PM
IC5	300ml	15	4/15/2005	6:47:24 PM
BLK	502ml	16	4/15/2005	7:30:59 PM
ICVCX1309	101ml	13	4/15/2005	8:13:38 PM
LCS	99ml	STD	4/15/2005	8:56:19 PM
BLKA	502ml	16	4/15/2005	9:39:31 PM
BLKB	502ml	16	4/15/2005	10:22:26 PM

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
 End Cal Date : 15-APR-2005 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 Level 2: /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 Level 3: /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 Level 4: /var/chem/gcms/mt.i/T041505I.b/ticd154.d
 Level 5: /var/chem/gcms/mt.i/T041505I.b/ticd155.d
 Level 6: /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 Level 7: /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 Level 8: /var/chem/gcms/mt.i/T041505I.b/ticd158.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000 Level 7	2.600 Level 8						
7 Chlorodifluoromethane	4.22903 3.01721	4.24357 3.82176	3.20378	2.82038	2.81397	4.07905	3.52859	17.827
8 Dichlorodifluoromethane	4.86509 3.52944	5.55415 4.59415	4.21307	3.70885	3.65012	5.21802	4.41661	17.298
9 Chloromethane	0.67568 0.51958	0.68506 0.60511	0.51460	0.41289	0.39399	0.67595	0.56036	21.050
10 1,2-Dichlorotetrafluoroethane	2.85128 2.06604	3.26046 2.62493	2.69144	2.47232	2.41297	3.40202	2.72268	16.234
11 Vinyl Chloride	1.90409 1.35425	2.11821 1.78756	1.65373	1.42229	1.38244	1.98354	1.70077	17.275
12 Methanol	++++ ++++	0.48792 0.42469	0.37384	0.32388	0.33259	++++	0.38858	17.601

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
 End Cal Date : 15-APR-2005 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRP	% RSD
	0.50000 Level 7	2.600 Level 8						
13 1,3-Butadiene	1.43551 1.04114	1.53309 1.33844	1.16032	1.01930	0.96041	1.35017	1.22980	17.328
14 n-Butane	3.45673 2.50498	3.60261 3.14069	2.66241	2.25648	2.12879	3.50448	2.90715	20.341
15 Bromomethane	2.10831 1.52425	2.43300 2.00337	1.91133	1.74270	1.68171	2.24575	1.95630	15.529
16 Chloroethane	1.08677 0.81800	1.14490 0.94843	0.91969	0.82640	0.79395	1.11325	0.95642	14.839
17 Trichlorofluoromethane	4.54891 3.18626	4.86947 4.13768	3.75825	3.40555	3.22453	4.74203	3.98408	17.234
18 Acrolein	0.37880 0.24389	0.32296 0.24992	0.25123	0.23642	0.23727	0.30285	0.27792	18.675
19 Acetonitrile	0.55702 0.31592	0.42298 0.33988	0.32357	0.29776	0.31422	0.43233	0.37546	23.769
20 Acetone	++++ ++++	0.43740 0.35693	0.34323	0.30066	0.29720	++++	0.34708	16.370
21 Pentane	0.51535 0.39003	0.52783 0.44413	0.41907	0.36989	0.34360	0.65023	0.45752	22.212

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
 End Cal Date : 15-APR-2005 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000 Level 7	2.600 Level 8						
22 Ethyl Ether	1.58353	1.25526	0.95061	0.88396	0.88791	1.24728		
	0.94206	0.99947					1.09376	22.616
23 1,1-Dichloroethene	1.71702	1.99128	1.59886	1.51425	1.37780	1.87437		
	1.22773	1.62905					1.61629	15.443
24 Acrylonitrile	0.76495	0.64899	0.49891	0.46548	0.45869	0.61445		
	0.44512	0.48407					0.54758	21.111
25 1,1,2-Trichlorotrifluoroethan	3.87059	4.22553	3.37659	3.10774	2.70195	4.28592		
	2.78266	3.49155					3.48032	17.508
26 Methylene Chloride	1.88628	1.82555	1.48927	1.39206	1.32097	+++++		
	1.45563	1.48021					1.55000	14.033
27 3-Chloropropene	1.69622	1.67303	1.30019	1.21385	1.18832	1.71355		
	1.17311	1.32454					1.41035	17.083
28 Carbon Disulfide	5.87276	6.76316	5.38332	4.77954	4.66858	6.80165		
	4.24434	5.58466					5.51225	17.122
29 trans-1,2-Dichloroethene	1.70850	1.90012	1.58253	1.52252	1.43071	1.94117		
	1.22635	1.53350					1.60567	14.831
30 Methyl-t-Butyl Ether	2.21680	1.94867	1.55516	1.53766	1.49529	1.93512		
	1.23642	1.44650					1.67145	19.532

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
 End Cal Date : 15-APR-2005 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000 Level 7	2.600 Level 8						
31 1,1-Dichloroethane	3.35964	3.25618	2.70161	2.55667	2.53852	3.61321		
	2.39211	2.51944					2.86717	16.300
32 Vinyl Acetate	2.67991	2.29729	1.84838	1.76393	1.82365	1.99045		
	1.62757	1.72808					1.96991	17.855
33 2-Butanone	0.45035	0.38087	0.31136	0.31210	0.28716	0.38218		
	0.26528	0.29980					0.33614	18.510
34 Hexane	1.49223	1.56835	1.25282	1.15515	1.03365	1.61043		
	1.03051	1.32613					1.30866	17.620
35 cis 1,2-Dichloroethene	1.71567	1.86925	1.55569	1.58405	1.53233	2.01920		
	1.27690	1.39500					1.61851	14.991
36 Chloroform	3.54312	3.61414	2.97608	2.84625	2.77205	3.77209		
	2.47551	2.88195					3.11015	15.063
37 1,1,1-Trichloroethane	3.15448	3.11018	2.58323	2.51707	2.42781	3.31598		
	2.21252	2.39334					2.71433	15.288
38 1,2-Dichloroethane	0.62392	0.57771	0.49918	0.46836	0.45723	0.59978		
	0.41567	0.41766					0.50744	16.256
39 Benzene	1.26871	1.19999	1.05169	0.97839	0.80923	1.47595		
	0.88806	0.84642					1.06481	21.904

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

```
Start Cal Date   : 15-APR-2005 10:23
End Cal Date    : 15-APR-2005 18:46
Quant Method    : ISTD
Origin          : Disabled
Target Version  : 3.50
Integrator      : HP RTE
Method file     : /var/chem/gcms/mt.i/T041505I.b/LA.m
Cal Date        : 17-Apr-2005 12:59 tajh
Curve Type      : Average
```

Compound	1.000	5.000	10.000	15.000	30.000	0.20000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	-----	-----	-----	-----	-----	-----		
	0.50000	2.600						
	Level 7	Level 8						
40 1-Butanol	0.10349	0.15367	0.12877	0.12042	0.11130	0.10661		
	0.07458	0.11048					0.11366	19.872
41 Cyclohexane	0.19222	0.23423	0.19064	0.16607	0.13190	0.23271		
	0.13454	0.18639					0.18359	21.091
42 Carbon Tetrachloride	3.24522	3.55106	2.85023	2.67303	2.41363	3.43855		
	2.36869	2.93495					2.93442	15.228
43 Heptane	0.93288	1.03704	0.82787	0.74909	0.64258	1.00413		
	0.64778	0.79790					0.82991	18.199
44 1,2-Dichloropropane	0.50978	0.44207	0.38410	0.36837	0.32664	0.50688		
	0.33753	0.31372					0.39864	19.709
45 Trichloroethene	0.53744	0.62184	0.54742	0.53211	0.45896	0.65738		
	0.39634	0.45083					0.52529	16.724
46 Dibromomethane	0.58813	0.60863	0.52708	0.50900	0.44813	0.66413		
	0.42098	0.43673					0.52535	16.891
47 Bromodichloromethane	0.96284	1.00583	0.87340	0.82362	0.74387	1.03977		
	0.67098	0.72909					0.85617	16.033
48 4-Methyl-2-pentanone	0.54141	0.61955	0.52491	0.46909	0.41367	0.52720		
	0.33312	0.46163					0.48632	17.993

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
 End Cal Date : 15-APR-2005 18:46
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000	2.600						
	Level 7	Level 8						
49 cis-1,3-Dichloropropene	0.87183	0.82105	0.73872	0.72462	0.68774	0.89397		
	0.57724	0.56344					0.73483	16.910
50 trans-1,3-Dichloropropene	0.57800	0.53260	0.49118	0.50675	0.50148	0.60442		
	0.39079	0.37740					0.49783	16.123
51 Toluene	1.40669	1.24543	1.14183	1.19637	1.14309	1.57188		
	0.98730	0.89945					1.19901	17.979
52 1,1,2-Trichloroethane	0.56556	0.50242	0.45538	0.46352	0.44104	0.66473		
	0.40614	0.36476					0.48294	19.646
53 2-Hexanone	0.25385	0.31763	0.29026	0.27939	0.24760	0.28341		
	0.17619	0.23164					0.26000	16.690
54 Octane	0.44381	0.47507	0.43319	0.43133	0.37602	0.54929		
	0.31691	0.34664					0.42153	17.604
55 Dibromochloromethane	1.02041	1.02439	0.97159	0.99458	0.91453	1.11824		
	0.71632	0.72861					0.93608	15.353
56 1,2-Dibromoethane	0.92334	0.84918	0.78907	0.81423	0.76518	1.00935		
	0.63458	0.59462					0.79744	17.252
57 Tetrachloroethene	0.52597	0.59397	0.52560	0.52209	0.44423	0.67640		
	0.38833	0.44548					0.51526	17.735

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000	2.600						
	Level 7	Level 8						
58 Chlorobenzene	1.16175	1.04897	0.97541	1.01591	0.95004	1.30034		
	0.81860	0.73042					1.00018	18.032
59 Ethylbenzene	1.75233	1.58867	1.38585	1.40266	1.34310	1.81081		
	1.15699	1.12691					1.44591	17.510
60 m-Xylene (For p-)	1.29485	1.17665	1.02704	1.07733	1.05293	1.30375		
	0.88257	0.89521					1.08879	14.794
61 Bromoform	0.94229	0.91665	0.86822	0.91358	0.83411	0.95756		
	0.61878	0.63250					0.83546	16.200
62 Nonane	1.02653	0.97584	0.82950	0.81280	0.71173	1.07464		
	0.70101	0.70447					0.85456	17.780
63 Styrene	0.89720	0.84028	0.72626	0.71385	0.63672	0.87590		
	0.55839	0.57484					0.72793	18.274
64 o-Xylene	1.31759	1.17608	1.05403	1.05142	0.99816	1.40234		
	0.92632	0.85946					1.09817	17.118
65 1,1,2,2-Tetrachloroethane	1.29871	1.16960	0.98480	0.97996	0.89175	1.26083		
	0.82169	0.85831					1.03321	17.974
66 1,2,3-Trichloropropane	0.18431	0.17246	0.14876	0.15078	0.14343	0.17746		
	0.11884	0.12270					0.15234	15.990

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000 Level 7	2.600 Level 8						
67 Cumene	1.83062 1.17111	1.67890 1.21276	1.43079	1.42048	1.30296	1.78202	1.47871	17.295
68 n-Propylbenzene	0.51239 0.31624	0.47333 0.33446	0.41773	0.41277	0.36048	0.46128	0.41108	16.986
69 4-Ethyltoluene	1.91653 1.18995	1.77045 1.28309	1.50016	1.47971	1.30643	1.80528	1.53145	17.677
70 1,3,5-Trimethylbenzene	0.71121 0.43341	0.64818 0.46081	0.57026	0.56703	0.50241	0.66712	0.57005	17.622
71 Alpha-Methylstyrene	0.72161 0.40907	0.72721 0.49525	0.63881	0.65006	0.59535	0.59685	0.60428	17.943
72 Decane	1.35679 0.87886	1.15756 0.88340	0.91295	0.84145	0.67276	1.30347	1.00090	24.247
73 1,2,4-Trimethylbenzene	1.52852 0.91937	1.38405 1.01682	1.18955	1.18827	1.06295	1.30334	1.19911	16.792
74 1,3-Dichlorobenzene	1.10626 0.73463	0.99567 0.70973	0.88606	0.90431	0.80369	1.11469	0.90688	17.207
75 Benzyl Chloride	1.34069 0.78460	1.26082 0.91042	1.08209	1.06566	0.89761	1.13632	1.05978	17.834

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000	2.600						
	Level 7	Level 8						
76 1,4-Dichlorobenzene	1.08795	1.00124	0.87435	0.91098	0.81720	1.16143		
	0.74696	0.69895					0.91238	17.778
77 1,2-Dichlorobenzene	1.03899	0.95015	0.84850	0.89219	0.84177	1.01064		
	0.67024	0.67224					0.86559	16.066
78 Undecane	1.24191	1.23193	1.03638	0.98726	0.83700	1.01392		
	0.71132	0.96586					1.00320	17.870
79 Dodecane	0.75289	1.02003	0.85605	0.79698	+++++	0.69605		
	0.49085	0.88556					0.78549	21.177
80 1,2,4-Trichlorobenzene	0.53218	0.64954	0.60545	0.63428	0.52622	0.52855		
	0.35691	0.49091					0.54050	17.340
81 Napthalene	1.06798	1.50227	1.40658	1.45374	1.22922	1.08801		
	0.72958	1.20768					1.21063	20.936
82 Hexachlorobutadiene	0.46765	0.54513	0.49092	0.50038	0.32045	0.44948		
	0.30336	0.43818					0.43944	19.445
133 2,3-Dimethyl butane	4.25118	4.56556	3.56496	3.17321	2.97938	4.39054		
	3.05014	3.86961					3.73057	16.918
134 a-Pinene	1.14604	1.03638	0.92838	0.93264	0.85405	1.17473		
	0.79974	0.72612					0.94976	16.840

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000	2.600						
	Level 7	Level 8						
135 Camphene	0.79605	0.68429	0.58635	0.57951	0.50378	0.79900		
	0.50497	0.49358					0.61844	20.512
136 b-Pinene	1.09118	0.94522	0.78487	0.73278	+++++	1.68254		
	0.96095	0.69613					0.98481	34.363 <-
137 p-Cymene	1.78380	1.64230	1.39764	1.39464	1.15645	1.56267		
	1.03376	1.17798					1.39365	18.690
138 d-Limonene	0.75770	0.71339	0.59795	0.58138	0.49192	0.59630		
	0.44365	0.52115					0.58793	18.100
139 4-tert-Butyltoluene	1.37398	1.35261	1.25373	1.25145	1.07324	1.19629		
	0.77990	1.01988					1.16264	16.984
140 Camphor	+++++	0.26265	0.19257	+++++	+++++	+++++		
	+++++	0.25204					0.23576	16.021
141 sec-butylbenzene	2.29307	2.09701	1.72783	1.64197	1.30454	2.01187		
	1.34614	1.53522					1.74471	20.592
142 n-butylbenzene	1.77244	1.62218	1.41288	1.39153	1.18647	1.48851		
	0.99561	1.20612					1.38447	18.128
143 Vinyl Bromide	3.42253	4.03529	3.20249	2.88201	2.69744	3.90763		
	2.52408	3.29036					3.24523	16.677

Report Date : 19-Apr-2005 17:23

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2005 10:23
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Cal Date : 17-Apr-2005 12:59 tajh
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	15.000 Level 4	30.000 Level 5	0.20000 Level 6	RRF	% RSD
	0.50000 Level 7	2.600 Level 8						
144 tert-butanol	2.59196	3.08002	2.47200	2.24500	2.06414	3.00600		
	1.98402	2.50371					2.49336	16.061
145 2,2,4-trimethylpentane	2.18392	2.39104	1.98290	1.81065	1.53603	2.38495		
	1.51212	1.77749					1.94739	17.912
146 2-chlorotoluene	0.46336	0.41518	0.36579	0.36709	0.32419	0.46326		
	0.31497	0.29975					0.37670	17.141
\$ 4 1,2-Dichloroethane-d4	0.21750	0.21119	0.20007	0.18823	0.18587	0.19767		
	0.21545	0.21804					0.20425	6.396
\$ 5 Toluene-d8	0.96782	0.93048	0.91272	0.91443	0.90537	0.96552		
	0.97364	0.97400					0.94300	3.189
\$ 6 4-Bromofluorobenzene	0.72016	0.74000	0.65989	0.63905	0.60202	0.68279		
	0.70454	0.74380					0.68653	7.327

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 STD 2 = /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 STD 3 = /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 STD 4 = /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 STD 5 = /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 STD 6 = /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 STD 7 = /var/chem/gcms/mt.i/T041505I.b/ticd154.d
 STD 8 = /var/chem/gcms/mt.i/T041505I.b/ticd155.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Bromochloromethane	10.114	10.120	10.119	10.113	10.120	10.119	10.128	10.134	10.121
1,4-Difluorobenzene	12.179	12.184	12.184	12.187	12.185	12.184	12.193	12.199	12.187
Chlorobenzene-d5	16.716	16.713	16.713	16.716	16.714	16.713	16.713	16.719	16.715
1,2-Dichloroethane-d4	0.910	0.910	0.910	0.910	0.910	0.911	0.910	0.910	0.910
Toluene-d8	0.879	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
4-Bromofluorobenzene	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094
Dichlorodifluoromethane	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.443	0.444
Chlorodifluoromethane	0.436	0.437	0.437	0.436	0.436	0.436	0.436	0.436	0.436
1,2-Dichlorotetrafluoroethane	0.467	0.468	0.468	0.467	0.468	0.468	0.467	0.467	0.468
Chloromethane	0.466	0.466	0.467	0.466	0.466	0.466	0.466	0.466	0.466
Vinyl Chloride	0.488	0.488	0.487	0.488	0.487	0.487	0.487	0.487	0.487
n-Butane	0.498	0.498	0.498	0.499	0.498	0.498	0.498	0.497	0.498
1,3-Butadiene	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.497	0.498
Bromomethane	0.537	0.537	0.537	0.537	0.537	0.537	0.536	0.537	0.537
Chloroethane	0.554	0.554	0.554	0.554	0.553	0.553	0.554	0.554	0.554
Trichlorofluoromethane	0.620	0.620	0.620	0.621	0.620	0.620	0.620	0.620	0.620
Pentane	0.645	0.645	0.645	0.646	0.645	0.645	0.645	0.646	0.645
1,1-Dichloroethene	0.698	0.698	0.698	0.699	0.698	0.698	0.698	0.698	0.698
1,1,2-Trichlorotrifluoroethane	0.719	0.718	0.718	0.719	0.719	0.718	0.718	0.718	0.718
Carbon Disulfide	0.753	0.753	0.753	0.754	0.753	0.753	0.753	0.753	0.753
3-Chloropropene	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738	0.738
Methylene Chloride	NA	0.735	0.735	0.736	0.735	0.735	0.735	0.735	0.735
trans-1,2-Dichloroethene	0.821	0.822	0.822	0.822	0.822	0.822	0.822	0.822	0.822
Hexane	0.927	0.927	0.926	0.927	0.926	0.926	0.926	0.926	0.926
1,1-Dichloroethane	0.865	0.865	0.865	0.866	0.865	0.866	0.866	0.866	0.866
cis 1,2-Dichloroethene	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.967	0.966
Chloroform	1.001	1.000	1.001	1.002	1.001	1.001	1.001	1.001	1.001
1,1,1-Trichloroethane	1.101	1.100	1.101	1.101	1.101	1.101	1.101	1.100	1.101
Cyclohexane	0.961	0.961	0.960	0.960	0.960	0.960	0.960	0.959	0.960
Carbon Tetrachloride	1.158	1.158	1.158	1.159	1.158	1.158	1.158	1.158	1.158
Benzene	0.960	0.959	0.959	0.959	0.959	0.960	0.959	0.959	0.959
1,2-Dichloroethane	0.922	0.922	0.922	0.922	0.922	0.922	0.922	0.922	0.922
Heptane	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046
Trichloroethene	1.056	1.055	1.056	1.055	1.056	1.056	1.055	1.055	1.056
1,2-Dichloropropane	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053
Dibromomethane	1.062	1.061	1.061	1.061	1.061	1.062	1.061	1.061	1.061
Bromodichloromethane	1.073	1.073	1.072	1.072	1.073	1.073	1.072	1.072	1.072
cis-1,3-Dichloropropene	1.150	1.150	1.150	1.150	1.150	1.150	1.149	1.149	1.150

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 STD 2 = /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 STD 3 = /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 STD 4 = /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 STD 5 = /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 STD 6 = /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 STD 7 = /var/chem/gcms/mt.i/T041505I.b/ticd154.d
 STD 8 = /var/chem/gcms/mt.i/T041505I.b/ticd155.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Toluene	0.886	0.886	0.886	0.886	0.886	0.886	0.886	0.886	0.886
Octane	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925
trans-1,3-Dichloropropene	0.878	0.877	0.878	0.878	0.877	0.878	0.878	0.878	0.878
1,1,2-Trichloroethane	0.889	0.889	0.889	0.889	0.889	0.889	0.890	0.890	0.889
Tetrachloroethene	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952	0.952
Dibromochloromethane	0.930	0.930	0.930	0.930	0.930	0.930	0.931	0.931	0.930
1,2-Dibromoethane	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948
Chlorobenzene	1.002	1.002	1.003	1.002	1.003	1.003	1.003	1.003	1.003
Ethylbenzene	1.019	1.020	1.019	1.019	1.020	1.020	1.020	1.020	1.020
m-Xylene (For p-)	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028	1.028
Nonane	1.052	1.052	1.052	1.052	1.052	1.052	1.053	1.053	1.052
o-Xylene	1.059	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
Styrene	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056
Bromoform	1.055	1.055	1.055	1.055	1.055	1.056	1.056	1.056	1.055
Cumene	1.092	1.092	1.092	1.092	1.092	1.092	1.093	1.093	1.092
1,1,2,2-Tetrachloroethane	1.077	1.077	1.077	1.077	1.077	1.077	1.077	1.077	1.077
n-Propylbenzene	1.121	1.122	1.122	1.122	1.122	1.122	1.122	1.122	1.122
1,3,5-Trimethylbenzene	1.134	1.134	1.134	1.134	1.134	1.134	1.134	1.135	1.134
Decane	1.149	1.150	1.150	1.149	1.150	1.150	1.150	1.150	1.150
Alpha-Methylstyrene	1.146	1.147	1.147	1.146	1.147	1.147	1.147	1.147	1.147
1,2,4-Trimethylbenzene	1.158	1.159	1.159	1.158	1.159	1.159	1.159	1.159	1.159
1,3-Dichlorobenzene	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.175	1.174
1,4-Dichlorobenzene	1.178	1.179	1.179	1.178	1.179	1.179	1.180	1.180	1.179
Benzyl Chloride	1.178	1.178	1.178	1.178	1.178	1.178	1.178	1.178	1.178
1,2-Dichlorobenzene	1.199	1.199	1.199	1.199	1.199	1.200	1.200	1.200	1.199
Undecane	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224
Dodecane	1.290	1.291	1.291	1.290	1.291	1.291	1.291	NA	1.291
1,2,4-Trichlorobenzene	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305
Hexachlorobutadiene	1.328	1.328	1.328	1.328	1.328	1.328	1.328	1.328	1.328
Napthalene	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314
Methanol	NA	NA	NA	0.487	0.486	0.486	0.486	0.485	0.486
Ethyl Ether	0.667	0.666	0.665	0.665	0.664	0.664	0.664	0.664	0.665
Acetone	NA	NA	NA	0.637	0.636	0.636	0.635	0.635	0.636
Acrylonitrile	0.712	0.711	0.710	0.711	0.710	0.710	0.710	0.711	0.711
Vinyl Acetate	0.877	0.876	0.876	0.877	0.876	0.876	0.877	0.877	0.876
2-Butanone	0.927	0.926	0.924	0.924	0.924	0.924	0.924	0.924	0.925
1-Butanol	0.960	0.959	0.959	0.956	0.955	0.955	0.954	0.955	0.957
4-Methyl-2-pentanone	1.147	1.147	1.146	1.146	1.146	1.146	1.145	1.146	1.146

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:04/19/2005

Page 3

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 STD 2 = /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 STD 3 = /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 STD 4 = /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 STD 5 = /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 STD 6 = /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 STD 7 = /var/chem/gcms/mt.i/T041505I.b/ticd154.d
 STD 8 = /var/chem/gcms/mt.i/T041505I.b/ticd155.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
2-Hexanone	0.912	0.912	0.912	0.911	0.911	0.911	0.912	0.912	0.912
Methyl-t-Butyl Ether	0.840	0.838	0.837	0.837	0.836	0.836	0.836	0.836	0.837
Acrolein	0.623	0.624	0.623	0.622	0.622	0.622	0.621	0.622	0.622
Acetonitrile	0.633	0.633	0.630	0.631	0.630	0.630	0.630	0.630	0.631
4-Ethyltoluene	1.130	1.130	1.130	1.130	1.130	1.130	1.130	1.131	1.130
1,2,3-Trichloropropane	1.086	1.086	1.086	1.086	1.086	1.086	1.087	1.087	1.086
2,3-Dimethyl butane	0.816	0.815	0.815	0.816	0.816	0.815	0.816	0.815	0.816
a-Pinene	1.105	1.105	1.105	1.105	1.105	1.105	1.105	1.105	1.105
Camphene	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124
b-Pinene	1.149	1.150	1.150	1.149	1.150	1.150	1.150	NA	1.150
p-Cymene	1.182	1.182	1.182	1.182	1.182	1.182	1.183	1.183	1.182
d-Limonene	1.186	1.186	1.186	1.186	1.186	1.186	1.187	1.187	1.186
4-tert-Butyltoluene	1.232	1.232	1.232	1.232	1.232	1.233	1.233	1.233	1.232
Camphor	NA	NA	NA	1.282	1.282	1.282	NA	NA	1.282
sec-butylbenzene	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173
n-butylbenzene	1.206	1.207	1.207	1.206	1.207	1.207	1.207	1.207	1.207
Vinyl Bromide	0.589	0.589	0.589	0.589	0.588	0.588	0.589	0.589	0.589
tert-butanol	0.714	0.714	0.712	0.711	0.710	0.710	0.710	0.711	0.712
2,2,4-trimethylpentane	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018
2-chlorotoluene	1.124	1.124	1.124	1.124	1.124	1.124	1.125	1.125	1.124

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 Report Date: 17-Apr-2005 12:35

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 Lab Smp Id: IC6 Client Smp ID: 0.2PPBV
 Inj Date : 15-APR-2005 10:23
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC6,,1,6,,0.2PPBV
 Misc Info : T041505I,LA,,,100ML CX1311
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:35 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 10:23 Cal File: ticd156.d
 Als bottle: 12 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL (ppb(v/v)) (ppb(v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.114	10.114	(1.000)	231304	10.0000	
* 2 1,4-Difluorobenzene	114	12.179	12.179	(1.000)	851484	10.0000	
* 3 Chlorobenzene-d5	117	16.717	16.717	(1.000)	732849	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.086	11.086	(0.910)	168315	10.0000	9.678
\$ 5 Toluene-d8	98	14.695	14.695	(0.879)	707580	10.0000	10.24
\$ 6 4-Bromofluorobenzene	95	18.287	18.287	(1.094)	500385	10.0000	9.946
7 Chlorodifluoromethane	51	4.414	4.414	(0.436)	18870	0.20000	0.2312
8 Dichlorodifluoromethane	85	4.492	4.492	(0.444)	24139	0.20000	0.2363
9 Chloromethane	52	4.717	4.717	(0.466)	3127	0.20000	0.2412
10 1,2-Dichlorotetrafluoroethane	135	4.726	4.726	(0.467)	15738	0.20000	0.2499
11 Vinyl Chloride	62	4.934	4.934	(0.488)	9176	0.20000	0.2332
12 Methanol	31	4.952	4.952	(0.490)	11124	0.80000	1.238
13 1,3-Butadiene	54	5.038	5.038	(0.498)	6246	0.20000	0.2196
14 n-Butane	43	5.038	5.038	(0.498)	16212	0.20000	0.2411
15 Bromomethane	94	5.429	5.429	(0.537)	10389	0.20000	0.2296
16 Chloroethane	64	5.602	5.602	(0.554)	5150	0.20000	0.2328
17 Trichlorofluoromethane	101	6.270	6.270	(0.620)	21937	0.20000	0.2380
18 Acrolein	56	6.305	6.305	(0.623)	2802	0.40000	0.4042
19 Acetonitrile	40	6.401	6.401	(0.633)	4000	0.40000	0.4606
20 Acetone	58	6.461	6.461	(0.639)	10547	0.40000	1.314
21 Pentane	57	6.522	6.522	(0.645)	3008	0.20000	0.2842

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd156.d
Report Date: 17-Apr-2005 12:35

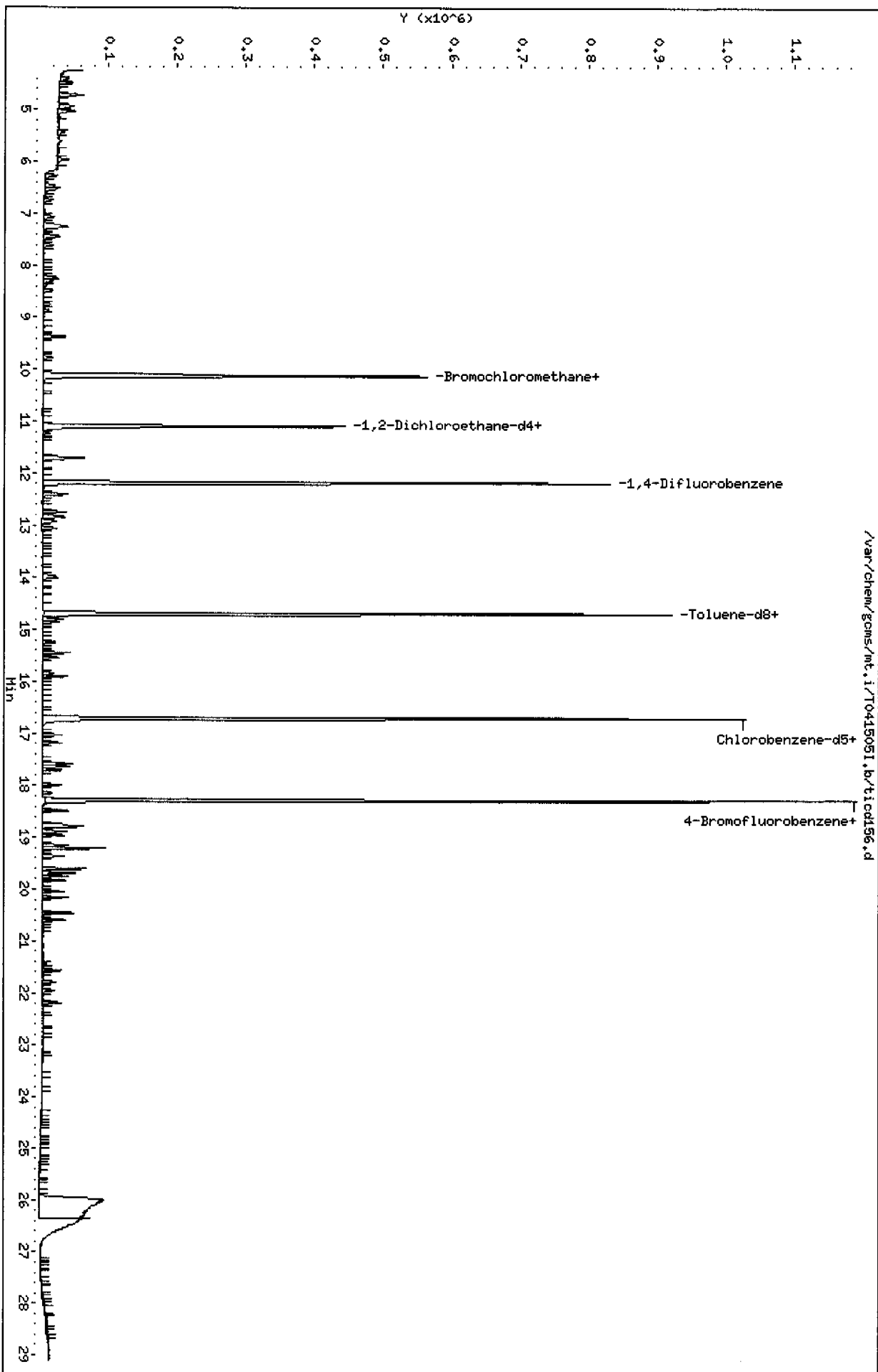
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
*****	----	--	-----	-----	-----	-----	-----
22 Ethyl Ether	31	6.748	6.748	(0.667)	11540	0.40000	0.4561
23 1,1-Dichloroethene	96	7.060	7.060	(0.698)	8671	0.20000	0.2319
24 Acrylonitrile	53	7.199	7.199	(0.712)	5685	0.40000	0.4488
25 1,1,2-Trichlorotrifluoroethane	101	7.268	7.268	(0.719)	19827	0.20000	0.2463
26 Methylene Chloride	84	7.433	7.433	(0.735)	10878	0.20000	0.3034
27 3-Chloropropene	39	7.459	7.459	(0.738)	7927	0.20000	0.2430
28 Carbon Disulfide	76	7.615	7.615	(0.753)	31465	0.20000	0.2468
29 trans-1,2-Dichloroethene	96	8.301	8.301	(0.821)	8980	0.20000	0.2418
30 Methyl-t-Butyl Ether	73	8.492	8.492	(0.840)	17904	0.40000	0.4631
31 1,1-Dichloroethane	63	8.752	8.752	(0.865)	16715	0.20000	0.2520
32 Vinyl Acetate	43	8.873	8.873	(0.877)	18416	0.40000	0.4042
33 2-Butanone	72	9.377	9.377	(0.927)	3536	0.40000	0.4548
34 Hexane	56	9.377	9.377	(0.927)	7450	0.20000	0.2461
35 cis 1,2-Dichloroethene	96	9.776	9.776	(0.967)	9341	0.20000	0.2495
36 Chloroform	83	10.123	10.123	(1.001)	17450	0.20000	0.2426
37 1,1,1-Trichloroethane	97	11.138	11.138	(1.101)	15340	0.20000	0.2443
38 1,2-Dichloroethane	62	11.225	11.225	(0.922)	10214	0.20000	0.2364
39 Benzene	78	11.693	11.693	(0.960)	25135	0.20000	0.2772
40 1-Butanol	31	11.693	11.693	(0.960)	3631	0.40000	0.3752
41 Cyclohexane	69	11.702	11.702	(0.961)	3963	0.20000	0.2535
42 Carbon Tetrachloride	117	11.710	11.710	(1.158)	15907	0.20000	0.2344
43 Heptane	43	12.743	12.743	(1.046)	17100	0.20000	0.2420
44 1,2-Dichloropropane	63	12.821	12.821	(1.053)	8632	0.20000	0.2543
45 Trichloroethene	130	12.856	12.856	(1.056)	11195	0.20000	0.2503
46 Dibromomethane	93	12.934	12.934	(1.062)	11310	0.20000	0.2528
47 Bromodichloromethane	83	13.064	13.064	(1.073)	17707	0.20000	0.2429
48 4-Methyl-2-pentanone	43	13.975	13.975	(1.147)	17956	0.40000	0.4336
49 cis-1,3-Dichloropropene	75	14.010	14.010	(1.150)	15224	0.20000	0.2433
50 trans-1,3-Dichloropropene	75	14.669	14.669	(0.878)	8859	0.20000	0.2428
51 Toluene	91	14.808	14.808	(0.886)	23039	0.20000	0.2622
52 1,1,2-Trichloroethane	97	14.869	14.869	(0.889)	9743	0.20000	0.2753
53 2-Hexanone	58	15.242	15.242	(0.912)	8308	0.40000	0.4360
54 Octane	85	15.459	15.459	(0.925)	8051	0.20000	0.2606
55 Dibromochloromethane	129	15.554	15.554	(0.930)	16390	0.20000	0.2389
56 1,2-Dibromoethane	107	15.840	15.840	(0.948)	14794	0.20000	0.2531
57 Tetrachloroethene	129	15.910	15.910	(0.952)	9914	0.20000	0.2625
58 Chlorobenzene	112	16.760	16.760	(1.003)	19059	0.20000	0.2600
59 Ethylbenzene	91	17.038	17.038	(1.019)	26541	0.20000	0.2505
60 m-Xylene (For p-)	91	17.185	17.185	(1.028)	19109	0.20000	0.2395
61 Bromoform	173	17.636	17.636	(1.055)	14035	0.20000	0.2292
62 Nonane	57	17.593	17.593	(1.052)	15751	0.20000	0.2515
63 Styrene	104	17.645	17.645	(1.056)	12838	0.20000	0.2406
64 o-Xylene	91	17.706	17.706	(1.059)	20554	0.20000	0.2554
65 1,1,2,2-Tetrachloroethane	83	18.001	18.001	(1.077)	18480	0.20000	0.2441
66 1,2,3-Trichloropropane	110	18.148	18.148	(1.086)	2601	0.20000	0.2330
67 Cumene	105	18.261	18.261	(1.092)	26119	0.20000	0.2410
68 n-Propylbenzene	120	18.747	18.747	(1.121)	6761	0.20000	0.2244

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd156.d
 Report Date: 17-Apr-2005 12:35

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.886	18.886	(1.130)	26460	0.20000	0.2358
70 1,3,5-Trimethylbenzene	120	18.955	18.955	(1.134)	9778	0.20000	0.2340
71 Alpha-Methylstyrene	118	19.163	19.163	(1.146)	8748	0.20000	0.1975
72 Decane	57	19.215	19.215	(1.149)	19105	0.20000	0.2604
73 1,2,4-Trimethylbenzene	105	19.363	19.363	(1.158)	19103	0.20000	0.2174
74 1,3-Dichlorobenzene	146	19.623	19.623	(1.174)	16338	0.20000	0.2458
75 Benzyl Chloride	91	19.684	19.684	(1.178)	16655	0.20000	0.2144
76 1,4-Dichlorobenzene	146	19.701	19.701	(1.179)	17023	0.20000	0.2546
77 1,2-Dichlorobenzene	146	20.048	20.048	(1.199)	14813	0.20000	0.2335
78 Undecane	57	20.465	20.465	(1.224)	14861	0.20000	0.2021
79 Dodecane	57	21.567	21.567	(1.290)	10202	0.20000	0.1772
80 1,2,4-Trichlorobenzene	180	21.809	21.809	(1.305)	7747	0.20000	0.1956
81 Napthalene	128	21.966	21.966	(1.314)	15947	0.20000	0.1772
82 Hexachlorobutadiene	225	22.200	22.200	(1.328)	6588	0.20000	0.2046
133 2,3-Dimethyl butane	43	8.249	8.249	(0.816)	20311	0.20000	0.2354
134 a-Pinene	93	18.478	18.478	(1.105)	17218	0.20000	0.2474
135 Camphene	93	18.781	18.781	(1.124)	11711	0.20000	0.2584
136 b-Pinene	93	19.207	19.207	(1.149)	24661	0.20000	0.3417
137 p-Cymene	119	19.753	19.753	(1.182)	22904	0.20000	0.2242
138 d-Limonene	68	19.831	19.831	(1.186)	8740	0.20000	0.2028
139 4-tert-Butyltoluene	133	20.603	20.603	(1.233)	17534	0.20000	0.2058
140 Camphor	95	21.445	21.445	(1.283)	1754	0.20000	0.1015
141 sec-butylbenzene	105	19.606	19.606	(1.173)	29488	0.20000	0.2306
142 n-butylbenzene	91	20.170	20.170	(1.207)	21817	0.20000	0.2150
143 Vinyl Bromide	106	5.958	5.958	(0.589)	18077	0.20000	0.2408
144 tert-butanol	59	7.225	7.225	(0.714)	27812	0.40000	0.4822
145 2,2,4-trimethylpentane	57	12.405	12.405	(1.019)	40615	0.20000	0.2449
146 2-chlorotoluene	126	18.799	18.799	(1.125)	6790	0.20000	0.2460

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd156.d
Date : 15-APR-2005 10:23
Client ID: 0.2PPBV
Sample Info: ID6,1,6,0.2PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 Report Date: 17-Apr-2005 12:35

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 Lab Smp Id: IC7 Client Smp ID: 0.5PPBV
 Inj Date : 15-APR-2005 11:05
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC7,,1,7,,0.5PPBV
 Misc Info : T041505I,LA,,,250ML CX1311
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:35 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 11:05 Cal File: ticd157.d
 Als bottle: 12 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS		
		QUANT	SIG					
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
*****		****	==	=====	=====	*****	*****	*****
*	1 Bromochloromethane	128	10.120	10.120	(1.000)	231419	10.0000	
*	2 1,4-Difluorobenzene	114	12.184	12.184	(1.000)	866226	10.0000	
*	3 Chlorobenzene-d5	117	16.713	16.713	(1.000)	755999	10.0000	
\$	4 1,2-Dichloroethane-d4	67	11.091	11.091	(0.910)	186630	10.0000	10.55
\$	5 Toluene-d8	98	14.701	14.701	(0.880)	736071	10.0000	10.32
\$	6 4-Bromofluorobenzene	95	18.284	18.284	(1.094)	532629	10.0000	10.26
	7 Chlorodifluoromethane	51	4.419	4.419	(0.437)	34912	0.50000	0.4275
	8 Dichlorodifluoromethane	85	4.489	4.489	(0.444)	40839	0.50000	0.3996
	9 Chloromethane	52	4.714	4.714	(0.466)	6012	0.50000	0.4636
	10 1,2-Dichlorotetrafluoroethane	135	4.732	4.732	(0.468)	23906	0.50000	0.3794
	11 Vinyl Chloride	62	4.940	4.940	(0.488)	15670	0.50000	0.3981
	12 Methanol	31	4.949	4.949	(0.489)	20423	2.00000	2.271
	13 1,3-Butadiene	54	5.044	5.044	(0.498)	12047	0.50000	0.4233
	14 n-Butane	43	5.044	5.044	(0.498)	28985	0.50000	0.4308
	15 Bromomethane	94	5.434	5.434	(0.537)	17637	0.50000	0.3896
	16 Chloroethane	64	5.608	5.608	(0.554)	9465	0.50000	0.4276
	17 Trichlorofluoromethane	101	6.276	6.276	(0.620)	36868	0.50000	0.3999
	18 Acrolein	56	6.311	6.311	(0.624)	5644	1.00000	0.8138
	19 Acetonitrile	40	6.406	6.406	(0.633)	7311	1.00000	0.8414
	20 Acetone	58	6.458	6.458	(0.638)	17765	1.00000	2.212
	21 Pentane	57	6.528	6.528	(0.645)	4513	0.50000	0.4262

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 Report Date: 17-Apr-2005 12:35

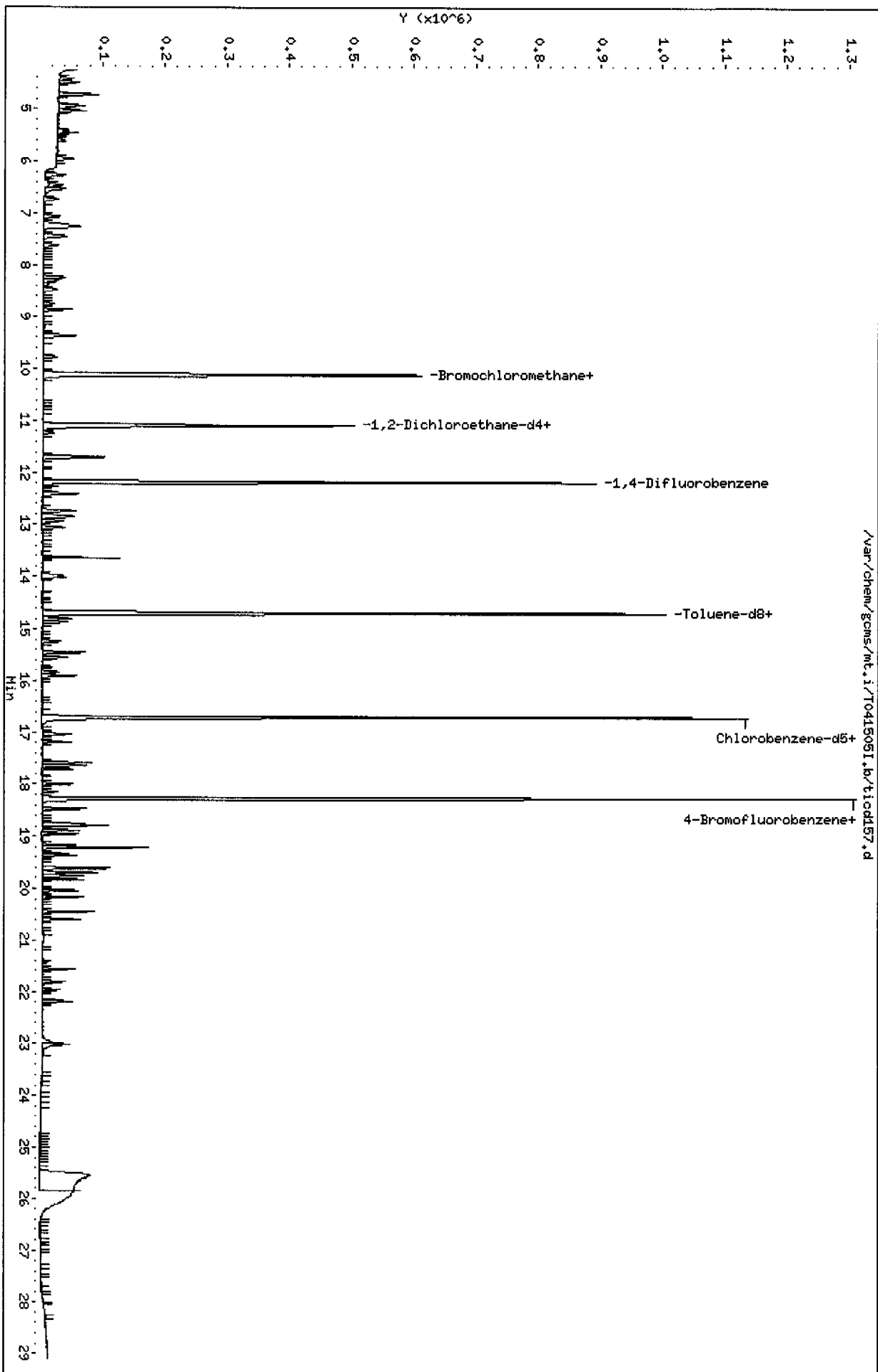
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
*****	====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.745	6.745	(0.666)	21801	1.00000	0.8613
23 1,1-Dichloroethene	96	7.066	7.066	(0.698)	14206	0.50000	0.3798
24 Acrylonitrile	53	7.196	7.196	(0.711)	10301	1.00000	0.8129
25 1,1,2-Trichlorotrifluoroethane	101	7.265	7.265	(0.718)	32198	0.50000	0.3998
26 Methylene Chloride	84	7.439	7.439	(0.735)	16843	0.50000	0.4696
27 3-Chloropropene	39	7.465	7.465	(0.738)	13574	0.50000	0.4159
28 Carbon Disulfide	76	7.621	7.621	(0.753)	49111	0.50000	0.3850
29 trans-1,2-Dichloroethene	96	8.315	8.315	(0.822)	14190	0.50000	0.3819
30 Methyl-t-Butyl Ether	73	8.480	8.480	(0.838)	28613	1.00000	0.7397
31 1,1-Dichloroethane	63	8.757	8.757	(0.865)	27679	0.50000	0.4172
32 Vinyl Acetate	43	8.870	8.870	(0.877)	37665	1.00000	0.8262
33 2-Butanone	72	9.373	9.373	(0.926)	6139	1.00000	0.7892
34 Hexane	56	9.382	9.382	(0.927)	11924	0.50000	0.3937
35 cis 1,2-Dichloroethene	96	9.773	9.773	(0.966)	14775	0.50000	0.3945
36 Chloroform	83	10.120	10.120	(1.000)	28644	0.50000	0.3980
37 1,1,1-Trichloroethane	97	11.135	11.135	(1.100)	25601	0.50000	0.4076
38 1,2-Dichloroethane	62	11.230	11.230	(0.922)	18003	0.50000	0.4096
39 Benzene	78	11.690	11.690	(0.959)	38463	0.50000	0.4170
40 1-Butanol	31	11.690	11.690	(0.959)	6460	1.00000	0.6561
41 Cyclohexane	69	11.707	11.707	(0.961)	5827	0.50000	0.3664
42 Carbon Tetrachloride	117	11.716	11.716	(1.158)	27408	0.50000	0.4036
43 Heptane	43	12.740	12.740	(1.046)	28056	0.50000	0.3903
44 1,2-Dichloropropane	63	12.827	12.827	(1.053)	14619	0.50000	0.4234
45 Trichloroethene	130	12.853	12.853	(1.055)	17166	0.50000	0.3772
46 Dibromomethane	93	12.931	12.931	(1.061)	18233	0.50000	0.4006
47 Bromodichloromethane	83	13.069	13.069	(1.073)	29061	0.50000	0.3918
48 4-Methyl-2-pentanone	43	13.972	13.972	(1.147)	28856	1.00000	0.6850
49 cis-1,3-Dichloropropene	75	14.015	14.015	(1.150)	25001	0.50000	0.3928
50 trans-1,3-Dichloropropene	75	14.666	14.666	(0.877)	14772	0.50000	0.3925
51 Toluene	91	14.805	14.805	(0.886)	37320	0.50000	0.4117
52 1,1,2-Trichloroethane	97	14.865	14.865	(0.889)	15352	0.50000	0.4205
53 2-Hexanone	58	15.247	15.247	(0.912)	13320	1.00000	0.6777
54 Octane	85	15.455	15.455	(0.925)	11979	0.50000	0.3759
55 Dibromochloromethane	129	15.551	15.551	(0.930)	27077	0.50000	0.3826
56 1,2-Dibromoethane	107	15.837	15.837	(0.948)	23987	0.50000	0.3979
57 Tetrachloroethene	129	15.907	15.907	(0.952)	14679	0.50000	0.3768
58 Chlorobenzene	112	16.757	16.757	(1.003)	30943	0.50000	0.4092
59 Ethylbenzene	91	17.043	17.043	(1.020)	43734	0.50000	0.4001
60 m-Xylene (For p-)	91	17.191	17.191	(1.029)	33361	0.50000	0.4053
61 Bromoform	173	17.633	17.633	(1.055)	23390	0.50000	0.3703
62 Nonane	57	17.590	17.590	(1.052)	26498	0.50000	0.4102
63 Styrene	104	17.650	17.650	(1.056)	21107	0.50000	0.3835
64 o-Xylene	91	17.711	17.711	(1.060)	35015	0.50000	0.4218
65 1,1,1,2-Tetrachloroethane	83	17.997	17.997	(1.077)	31060	0.50000	0.3976
66 1,2,3-Trichloropropane	110	18.154	18.154	(1.086)	4492	0.50000	0.3900
67 Cumene	105	18.258	18.258	(1.092)	44268	0.50000	0.3960
68 n-Propylbenzene	120	18.752	18.752	(1.122)	11954	0.50000	0.3846

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd157.d
 Report Date: 17-Apr-2005 12:35

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.891	18.891	(1.130)	44980	0.50000	0.3885
70 1,3,5-Trimethylbenzene	120	18.952	18.952	(1.134)	16383	0.50000	0.3802
71 Alpha-Methylstyrene	118	19.169	19.169	(1.147)	15463	0.50000	0.3385
72 Decane	57	19.212	19.212	(1.149)	33221	0.50000	0.4390
73 1,2,4-Trimethylbenzene	105	19.368	19.368	(1.159)	34752	0.50000	0.3834
74 1,3-Dichlorobenzene	146	19.620	19.620	(1.174)	27769	0.50000	0.4050
75 Benzyl Chloride	91	19.689	19.689	(1.178)	29658	0.50000	0.3702
76 1,4-Dichlorobenzene	146	19.707	19.707	(1.179)	28235	0.50000	0.4093
77 1,2-Dichlorobenzene	146	20.045	20.045	(1.199)	25335	0.50000	0.3872
78 Undecane	57	20.462	20.462	(1.224)	26888	0.50000	0.3545
79 Dodecane	57	21.572	21.572	(1.291)	18554	0.50000	0.3124
80 1,2,4-Trichlorobenzene	180	21.806	21.806	(1.305)	13491	0.50000	0.3302
81 Napthalene	128	21.971	21.971	(1.315)	27578	0.50000	0.2970
82 Hexachlorobutadiene	225	22.197	22.197	(1.328)	11467	0.50000	0.3452
133 2,3-Dimethyl butane	43	8.245	8.245	(0.815)	35293	0.50000	0.4088
134 a-Pinene	93	18.475	18.475	(1.105)	30230	0.50000	0.4210
135 Camphene	93	18.778	18.778	(1.124)	19088	0.50000	0.4083
136 b-Pinene	93	19.212	19.212	(1.149)	36324	0.50000	0.4879
137 p-Cymene	119	19.759	19.759	(1.182)	39076	0.50000	0.3709
138 d-Limonene	68	19.828	19.828	(1.186)	16770	0.50000	0.3773
139 4-tert-Butyltoluene	133	20.600	20.600	(1.233)	29480	0.50000	0.3354
140 Camphor	95	21.442	21.442	(1.283)	2398	0.50000	0.1345
141 sec-butylbenzene	105	19.611	19.611	(1.173)	50884	0.50000	0.3858
142 n-butylbenzene	91	20.167	20.167	(1.207)	37634	0.50000	0.3596
143 Vinyl Bromide	106	5.964	5.964	(0.589)	29206	0.50000	0.3889
144 tert-butanol	59	7.230	7.230	(0.714)	45914	1.00000	0.7957
145 2,2,4-trimethylpentane	57	12.410	12.410	(1.018)	65492	0.50000	0.3882
146 2-chlorotoluene	126	18.796	18.796	(1.125)	11906	0.50000	0.4181

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd157.d
Date : 15-APR-2005 11:05
Client ID: 0.5PPBV
Sample Info: IC7,,1,7,,0.5PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 Report Date: 17-Apr-2005 12:35

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 Lab Smp Id: IC1 Client Smp ID: 1PPBV
 Inj Date : 15-APR-2005 11:47
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC1,,1,1,,1PPBV
 Misc Info : T041505I,LA,,,500ML CX1311
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:35 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 11:47 Cal File: ticd151.d
 Als bottle: 12 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.119	10.119	(1.000)	170155	10.0000	
* 2 1,4-Difluorobenzene	114	12.184	12.184	(1.000)	641155	10.0000	
* 3 Chlorobenzene-d5	117	16.713	16.713	(1.000)	582700	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.091	11.091	(0.910)	139452	10.0000	10.65
\$ 5 Toluene-d8	98	14.700	14.700	(0.880)	563946	10.0000	10.26
\$ 6 4-Bromofluorobenzene	95	18.283	18.283	(1.094)	419640	10.0000	10.49
7 Chlorodifluoromethane	51	4.419	4.419	(0.437)	71959	1.00000	1.198
8 Dichlorodifluoromethane	85	4.497	4.497	(0.444)	82782	1.00000	1.102
9 Chloromethane	52	4.722	4.722	(0.467)	11497	1.00000	1.206
10 1,2-Dichlorotetrafluoroethane	135	4.731	4.731	(0.468)	48516	1.00000	1.047
11 Vinyl Chloride	62	4.930	4.930	(0.487)	32399	1.00000	1.120
12 Methanol	31	4.930	4.930	(0.487)	46792	4.00000	7.077
13 1,3-Butadiene	54	5.043	5.043	(0.498)	24426	1.00000	1.167
14 n-Butane	43	5.043	5.043	(0.498)	58818	1.00000	1.189
15 Bromomethane	94	5.434	5.434	(0.537)	35874	1.00000	1.078
16 Chloroethane	64	5.607	5.607	(0.554)	18492	1.00000	1.136
17 Trichlorofluoromethane	101	6.275	6.275	(0.620)	77402	1.00000	1.142
18 Acrolein	56	6.301	6.301	(0.623)	12891	2.00000	2.528
19 Acetonitrile	40	6.379	6.379	(0.630)	18956	2.00000	2.967
20 Acetone	58	6.440	6.440	(0.636)	45462	2.00000	7.698
21 Pentane	57	6.527	6.527	(0.645)	8769	1.00000	1.126

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 Report Date: 17-Apr-2005 12:35

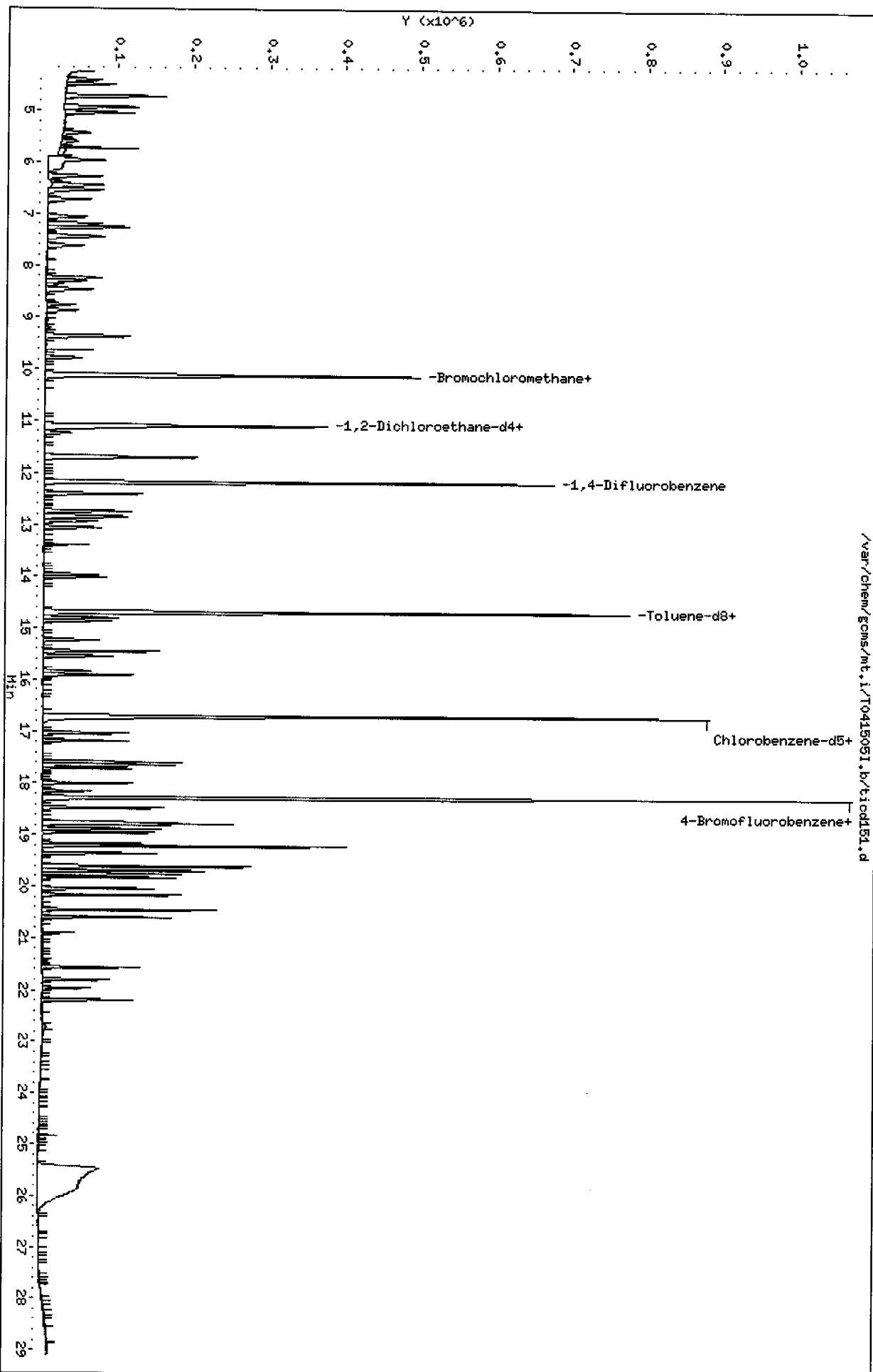
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.726	6.726	(0.665)	53889	2.00000	2.896
23 1,1-Dichloroethene	96	7.065	7.065	(0.698)	29216	1.00000	1.062
24 Acrylonitrile	53	7.186	7.186	(0.710)	26032	2.00000	2.794
25 1,1,2-Trichlorotrifluoroethane	101	7.264	7.264	(0.718)	65860	1.00000	1.112
26 Methylene Chloride	84	7.438	7.438	(0.735)	32096	1.00000	1.217
27 3-Chloropropene	39	7.464	7.464	(0.738)	28862	1.00000	1.203
28 Carbon Disulfide	76	7.620	7.620	(0.753)	99928	1.00000	1.065
29 trans-1,2-Dichloroethene	96	8.314	8.314	(0.822)	29071	1.00000	1.064
30 Methyl-t-Butyl Ether	73	8.470	8.470	(0.837)	75440	2.00000	2.652
31 1,1-Dichloroethane	63	8.757	8.757	(0.865)	57166	1.00000	1.172
32 Vinyl Acetate	43	8.869	8.869	(0.877)	91200	2.00000	2.721
33 2-Butanone	72	9.355	9.355	(0.925)	15326	2.00000	2.680
34 Hexane	56	9.373	9.373	(0.926)	25391	1.00000	1.140
35 cis 1,2-Dichloroethene	96	9.780	9.780	(0.967)	29193	1.00000	1.060
36 Chloroform	83	10.127	10.127	(1.001)	60288	1.00000	1.139
37 1,1,1-Trichloroethane	97	11.143	11.143	(1.101)	53675	1.00000	1.162
38 1,2-Dichloroethane	62	11.238	11.238	(0.922)	40003	1.00000	1.230
39 Benzene	78	11.689	11.689	(0.959)	81344	1.00000	1.191
40 1-Butanol	31	11.681	11.681	(0.959)	13271	2.00000	1.821
41 Cyclohexane	69	11.698	11.698	(0.960)	12324	1.00000	1.047
42 Carbon Tetrachloride	117	11.715	11.715	(1.158)	55219	1.00000	1.106
43 Heptane	43	12.748	12.748	(1.046)	59812	1.00000	1.124
44 1,2-Dichloropropane	63	12.834	12.834	(1.053)	32685	1.00000	1.279
45 Trichloroethene	130	12.860	12.860	(1.056)	34458	1.00000	1.023
46 Dibromomethane	93	12.930	12.930	(1.061)	37708	1.00000	1.119
47 Bromodichloromethane	83	13.060	13.060	(1.072)	61733	1.00000	1.124
48 4-Methyl-2-pentanone	43	13.962	13.962	(1.146)	69425	2.00000	2.226
49 cis-1,3-Dichloropropene	75	14.014	14.014	(1.150)	55898	1.00000	1.186
50 trans-1,3-Dichloropropene	75	14.674	14.674	(0.878)	33680	1.00000	1.161
51 Toluene	91	14.813	14.813	(0.886)	81968	1.00000	1.173
52 1,1,2-Trichloroethane	97	14.865	14.865	(0.889)	32955	1.00000	1.171
53 2-Hexanone	58	15.238	15.238	(0.912)	29584	2.00000	1.953
54 Octane	85	15.455	15.455	(0.925)	25861	1.00000	1.053
55 Dibromochloromethane	129	15.550	15.550	(0.930)	59459	1.00000	1.090
56 1,2-Dibromoethane	107	15.836	15.836	(0.948)	53803	1.00000	1.158
57 Tetrachloroethene	129	15.906	15.906	(0.952)	30648	1.00000	1.021
58 Chlorobenzene	112	16.765	16.765	(1.003)	67695	1.00000	1.162
59 Ethylbenzene	91	17.034	17.034	(1.019)	102108	1.00000	1.212
60 m-Xylene (For p-)	91	17.190	17.190	(1.029)	75451	1.00000	1.189
61 Bromoform	173	17.632	17.632	(1.055)	54907	1.00000	1.128
62 Nonane	57	17.589	17.589	(1.052)	59816	1.00000	1.201
63 Styrene	104	17.650	17.650	(1.056)	52280	1.00000	1.232
64 o-Xylene	91	17.710	17.710	(1.060)	76776	1.00000	1.200
65 1,1,2,2-Tetrachloroethane	83	17.997	17.997	(1.077)	75676	1.00000	1.257
66 1,2,3-Trichloropropane	110	18.153	18.153	(1.086)	10740	1.00000	1.210
67 Cumene	105	18.257	18.257	(1.092)	106670	1.00000	1.238
68 n-Propylbenzene	120	18.752	18.752	(1.122)	29857	1.00000	1.246

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd151.d
 Report Date: 17-Apr-2005 12:35

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	=====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.890	18.890	(1.130)	111676	1.00000	1.251
70 1,3,5-Trimethylbenzene	120	18.951	18.951	(1.134)	41442	1.00000	1.248
71 Alpha-Methylstyrene	118	19.168	19.168	(1.147)	42048	1.00000	1.194
72 Decane	57	19.211	19.211	(1.149)	79060	1.00000	1.356
73 1,2,4-Trimethylbenzene	105	19.368	19.368	(1.159)	89067	1.00000	1.275
74 1,3-Dichlorobenzene	146	19.619	19.619	(1.174)	64462	1.00000	1.220
75 Benzyl Chloride	91	19.689	19.689	(1.178)	78122	1.00000	1.265
76 1,4-Dichlorobenzene	146	19.706	19.706	(1.179)	63395	1.00000	1.192
77 1,2-Dichlorobenzene	146	20.044	20.044	(1.199)	60542	1.00000	1.200
78 Undecane	57	20.461	20.461	(1.224)	72366	1.00000	1.238
79 Dodecane	57	21.571	21.571	(1.291)	43871	1.00000	0.9585
80 1,2,4-Trichlorobenzene	180	21.806	21.806	(1.305)	31010	1.00000	0.9846
81 Napthalene	128	21.970	21.970	(1.315)	62231	1.00000	0.8696
82 Hexachlorobutadiene	225	22.196	22.196	(1.328)	27250	1.00000	1.064
133 2,3-Dimethyl butane	43	8.245	8.245	(0.815)	72336	1.00000	1.140
134 a-Pinene	93	18.474	18.474	(1.105)	66780	1.00000	1.207
135 Camphene	93	18.778	18.778	(1.124)	46386	1.00000	1.287
136 b-Pinene	93	19.211	19.211	(1.149)	63583	1.00000	1.108
137 p-Cymene	119	19.758	19.758	(1.182)	103942	1.00000	1.280
138 d-Limonene	68	19.827	19.827	(1.186)	44151	1.00000	1.289
139 4-tert-Butyltoluene	133	20.600	20.600	(1.233)	80062	1.00000	1.182
140 Camphor	95	21.441	21.441	(1.283)	2384	1.00000	0.1735
141 sec-butylbenzene	105	19.610	19.610	(1.173)	133617	1.00000	1.314
142 n-butylbenzene	91	20.166	20.166	(1.207)	103280	1.00000	1.280
143 Vinyl Bromide	106	5.963	5.963	(0.589)	58236	1.00000	1.055
144 tert-butanol	59	7.204	7.204	(0.712)	88207	2.00000	2.079
145 2,2,4-trimethylpentane	57	12.409	12.409	(1.018)	140023	1.00000	1.121
146 2-chlorotoluene	126	18.795	18.795	(1.125)	27000	1.00000	1.230

Data File: /var/chem/gcms/mt.i/T0415051.b/tic04151.d
Date: 15-APR-2005 11:47
Client ID: 1PPBV
Sample Info: IC4.1,1,1PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 Report Date: 17-Apr-2005 12:36

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 Lab Smp Id: IC8 Client Smp ID: 5PPBV
 Inj Date : 15-APR-2005 12:29
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC8,,1,8,,5PPBV
 Misc Info : T041505I,LA,,25ML CX1308
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:36 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 12:29 Cal File: ticd158.d
 Als bottle: 15 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb (v/v))	(ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.113	10.113	(1.000)	171839	10.0000	
* 2 1,4-Difluorobenzene	114	12.187	12.187	(1.000)	618709	10.0000	
* 3 Chlorobenzene-d5	117	16.716	16.716	(1.000)	548564	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.094	11.094	(0.910)	134906	10.0000	10.68
\$ 5 Toluene-d8	98	14.703	14.703	(0.880)	534300	10.0000	10.33
\$ 6 4-Bromofluorobenzene	95	18.286	18.286	(1.094)	408024	10.0000	10.83
7 Chlorodifluoromethane	51	4.413	4.413	(0.436)	170749	2.60000	2.816
8 Dichlorodifluoromethane	85	4.491	4.491	(0.444)	205258	2.60000	2.704
9 Chloromethane	52	4.717	4.717	(0.466)	27035	2.60000	2.808
10 1,2-Dichlorotetrafluoroethane	135	4.725	4.725	(0.467)	117277	2.60000	2.507
11 Vinyl Chloride	62	4.934	4.934	(0.488)	79865	2.60000	2.733
12 Methanol	31	4.925	4.925	(0.487)	75898	10.4000	11.37
13 1,3-Butadiene	54	5.038	5.038	(0.498)	59799	2.60000	2.830
14 n-Butane	43	5.046	5.046	(0.499)	140320	2.60000	2.809
15 Bromomethane	94	5.428	5.428	(0.537)	89507	2.60000	2.662
16 Chloroethane	64	5.602	5.602	(0.554)	42374	2.60000	2.578
17 Trichlorofluoromethane	101	6.278	6.278	(0.621)	184864	2.60000	2.700
18 Acrolein	56	6.296	6.296	(0.623)	22332	5.20000	4.336
19 Acetonitrile	40	6.383	6.383	(0.631)	30370	5.20000	4.707
20 Acetone	58	6.443	6.443	(0.637)	31894	5.20000	5.348
21 Pentane	57	6.530	6.530	(0.646)	19843	2.60000	2.524

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd158.d
Report Date: 17-Apr-2005 12:36

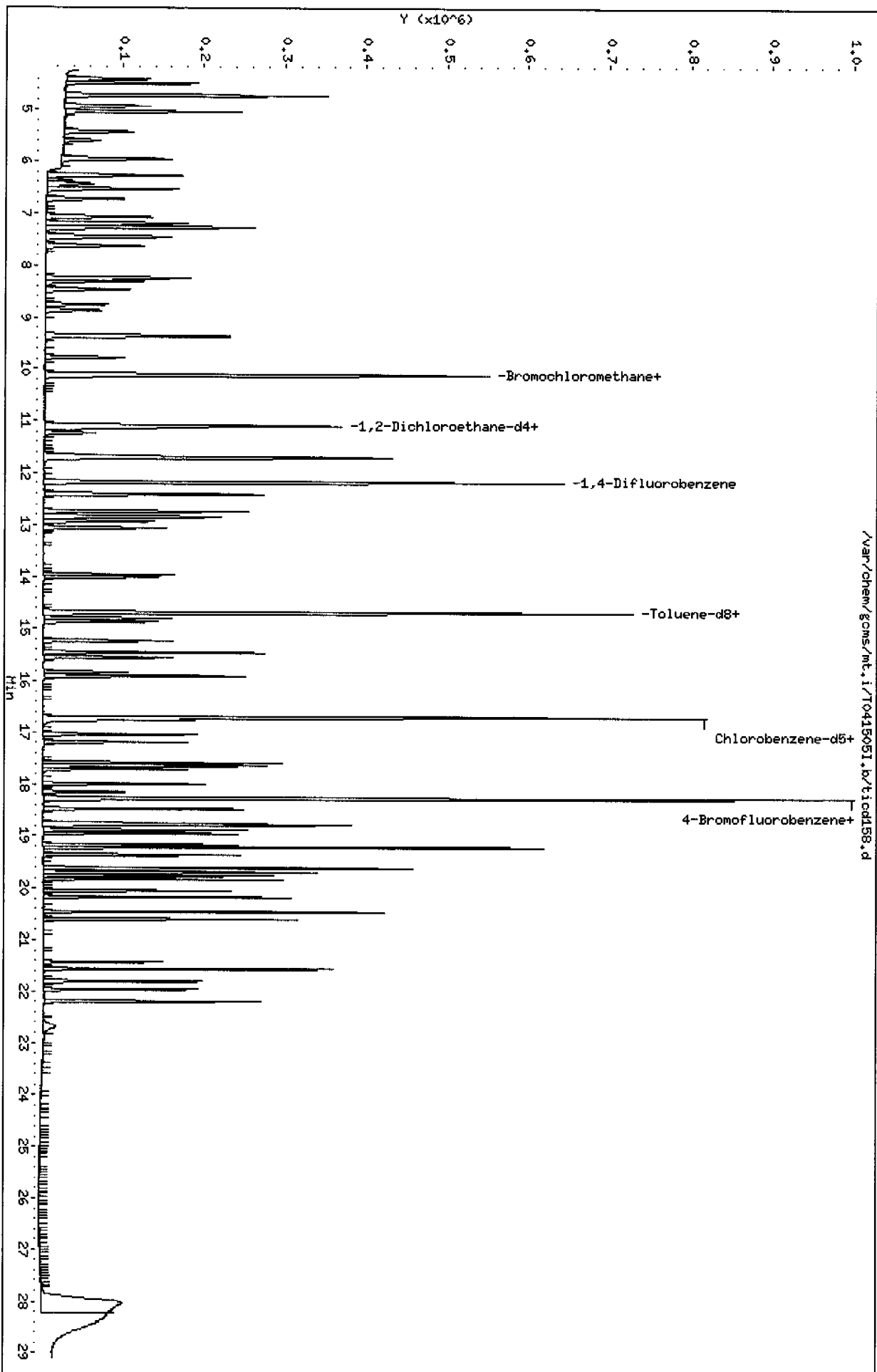
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	----	--	-----	-----	-----	-----	-----
22 Ethyl Ether	31	6.730	6.730	(0.665)	89309	5.20000	4.752
23 1,1-Dichloroethene	96	7.068	7.068	(0.699)	72783	2.60000	2.620
24 Acrylonitrile	53	7.189	7.189	(0.711)	43255	5.20000	4.597
25 1,1,2-Trichlorotrifluoroethane	101	7.268	7.268	(0.719)	155996	2.60000	2.608
26 Methylene Chloride	84	7.441	7.441	(0.736)	66133	2.60000	2.483
27 3-Chloropropene	39	7.467	7.467	(0.738)	59178	2.60000	2.442
28 Carbon Disulfide	76	7.623	7.623	(0.754)	249512	2.60000	2.634
29 trans-1,2-Dichloroethene	96	8.317	8.317	(0.822)	68514	2.60000	2.483
30 Methyl-t-Butyl Ether	73	8.465	8.465	(0.837)	129254	5.20000	4.500
31 1,1-Dichloroethane	63	8.760	8.760	(0.866)	112564	2.60000	2.285
32 Vinyl Acetate	43	8.873	8.873	(0.877)	154415	5.20000	4.562
33 2-Butanone	72	9.350	9.350	(0.924)	26789	5.20000	4.638
34 Hexane	56	9.376	9.376	(0.927)	59249	2.60000	2.635
35 cis 1,2-Dichloroethene	96	9.775	9.775	(0.967)	62326	2.60000	2.241
36 Chloroform	83	10.131	10.131	(1.002)	128760	2.60000	2.409
37 1,1,1-Trichloroethane	97	11.137	11.137	(1.101)	106930	2.60000	2.292
38 1,2-Dichloroethane	62	11.232	11.232	(0.922)	67187	2.60000	2.140
39 Benzene	78	11.692	11.692	(0.959)	136158	2.60000	2.067
40 1-Butanol	31	11.658	11.658	(0.957)	35545	5.20000	5.054
41 Cyclohexane	69	11.701	11.701	(0.960)	29984	2.60000	2.640
42 Carbon Tetrachloride	117	11.718	11.718	(1.159)	131128	2.60000	2.600
43 Heptane	43	12.742	12.742	(1.046)	128353	2.60000	2.500
44 1,2-Dichloropropane	63	12.829	12.829	(1.053)	50467	2.60000	2.046
45 Trichloroethene	130	12.855	12.855	(1.055)	72523	2.60000	2.231
46 Dibromomethane	93	12.933	12.933	(1.061)	70255	2.60000	2.161
47 Bromodichloromethane	83	13.063	13.063	(1.072)	117284	2.60000	2.214
48 4-Methyl-2-pentanone	43	13.965	13.965	(1.146)	148519	5.20000	4.936
49 cis-1,3-Dichloropropene	75	14.009	14.009	(1.149)	90637	2.60000	1.994
50 trans-1,3-Dichloropropene	75	14.668	14.668	(0.878)	53827	2.60000	1.971
51 Toluene	91	14.807	14.807	(0.886)	128286	2.60000	1.950
52 1,1,2-Trichloroethane	97	14.868	14.868	(0.889)	52024	2.60000	1.964
53 2-Hexanone	58	15.232	15.232	(0.911)	66077	5.20000	4.633
54 Octane	85	15.458	15.458	(0.925)	49440	2.60000	2.138
55 Dibromochloromethane	129	15.553	15.553	(0.930)	103919	2.60000	2.024
56 1,2-Dibromoethane	107	15.840	15.840	(0.948)	84808	2.60000	1.939
57 Tetrachloroethene	129	15.909	15.909	(0.952)	63538	2.60000	2.248
58 Chlorobenzene	112	16.759	16.759	(1.003)	104177	2.60000	1.899
59 Ethylbenzene	91	17.037	17.037	(1.019)	160728	2.60000	2.026
60 m-Xylene (For p-)	91	17.184	17.184	(1.028)	127681	2.60000	2.138
61 Bromoform	173	17.636	17.636	(1.055)	90212	2.60000	1.968
62 Nonane	57	17.592	17.592	(1.052)	100476	2.60000	2.143
63 Styrene	104	17.644	17.644	(1.056)	81988	2.60000	2.053
64 o-Xylene	91	17.714	17.714	(1.060)	122582	2.60000	2.035
65 1,1,2,2-Tetrachloroethane	83	18.000	18.000	(1.077)	122418	2.60000	2.160
66 1,2,3-Trichloropropane	110	18.156	18.156	(1.086)	17501	2.60000	2.094
67 Cumene	105	18.260	18.260	(1.092)	172972	2.60000	2.132
68 n-Propylbenzene	120	18.755	18.755	(1.122)	47703	2.60000	2.115

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd158.d
 Report Date: 17-Apr-2005 12:36

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.885	18.885	(1.130)	183003	2.60000	2.178
70 1,3,5-Trimethylbenzene	120	18.954	18.954	(1.134)	65724	2.60000	2.102
71 Alpha-Methylstyrene	118	19.163	19.163	(1.146)	70636	2.60000	2.131
72 Decane	57	19.215	19.215	(1.149)	125996	2.60000	2.295
73 1,2,4-Trimethylbenzene	105	19.362	19.362	(1.158)	145026	2.60000	2.205
74 1,3-Dichlorobenzene	146	19.622	19.622	(1.174)	101227	2.60000	2.035
75 Benzyl Chloride	91	19.692	19.692	(1.178)	129850	2.60000	2.234
76 1,4-Dichlorobenzene	146	19.700	19.700	(1.179)	99689	2.60000	1.992
77 1,2-Dichlorobenzene	146	20.047	20.047	(1.199)	95880	2.60000	2.019
78 Undecane	57	20.464	20.464	(1.224)	137758	2.60000	2.503
79 Dodecane	57	21.566	21.566	(1.290)	126304	2.60000	2.931
80 1,2,4-Trichlorobenzene	180	21.809	21.809	(1.305)	70017	2.60000	2.361
81 Napthalene	128	21.965	21.965	(1.314)	172248	2.60000	2.557
82 Hexachlorobutadiene	225	22.199	22.199	(1.328)	62496	2.60000	2.592
133 2,3-Dimethyl butane	43	8.248	8.248	(0.816)	172887	2.60000	2.697
134 a-Pinene	93	18.477	18.477	(1.105)	103564	2.60000	1.988
135 Camphene	93	18.781	18.781	(1.124)	70397	2.60000	2.075
136 b-Pinene	93	19.215	19.215	(1.149)	99287	2.60000	1.838
137 p-Cymene	119	19.761	19.761	(1.182)	168011	2.60000	2.198
138 d-Limonene	68	19.831	19.831	(1.186)	74330	2.60000	2.305
139 4-tert-Butyltoluene	133	20.603	20.603	(1.233)	145462	2.60000	2.281
140 Camphor	95	21.436	21.436	(1.282)	35948	2.60000	2.780
141 sec-butylbenzene	105	19.605	19.605	(1.173)	218963	2.60000	2.288
142 n-butylbenzene	91	20.169	20.169	(1.207)	172025	2.60000	2.265
143 Vinyl Bromide	106	5.957	5.957	(0.589)	147007	2.60000	2.636
144 tert-butanol	59	7.189	7.189	(0.711)	223722	5.20000	5.222
145 2,2,4-trimethylpentane	57	12.412	12.412	(1.018)	285935	2.60000	2.373
146 2-chlorotoluene	126	18.798	18.798	(1.125)	42752	2.60000	2.069

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd158.d
Date: 15-APR-2005 12:29
Client ID: SPPBV
Sample Info: IC8, 1,8, SPPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 Report Date: 17-Apr-2005 12:36

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 Lab Smp Id: IC2 Client Smp ID: 5PPBV
 Inj Date : 15-APR-2005 13:12
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC2,,1,2,,5PPBV
 Misc Info : T041505I,LA,,,50ML CX1308
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:36 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 13:12 Cal File: ticd152.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ppb (v/v))	(ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128		10.120	10.120	(1.000)	152217	10.0000		
* 2 1,4-Difluorobenzene	114		12.185	12.185	(1.000)	528468	10.0000		
* 3 Chlorobenzene-d5	117		16.714	16.714	(1.000)	483853	10.0000		
\$ 4 1,2-Dichloroethane-d4	67		11.092	11.092	(0.910)	111607	10.0000		10.34
\$ 5 Toluene-d8	98		14.701	14.701	(0.880)	450215	10.0000		9.867
\$ 6 4-Bromofluorobenzene	95		18.284	18.284	(1.094)	358049	10.0000		10.78
7 Chlorodifluoromethane	51		4.411	4.411	(0.436)	322972	5.00000		6.013
8 Dichlorodifluoromethane	85		4.489	4.489	(0.444)	422718	5.00000		6.288
9 Chloromethane	52		4.715	4.715	(0.466)	52139	5.00000		6.113
10 1,2-Dichlorotetrafluoroethane	135		4.732	4.732	(0.468)	248149	5.00000		5.988
11 Vinyl Chloride	62		4.932	4.932	(0.487)	161214	5.00000		6.227
12 Methanol	31		4.923	4.923	(0.486)	148539	20.0000		25.11
13 1,3-Butadiene	54		5.036	5.036	(0.498)	116681	5.00000		6.233
14 n-Butane	43		5.044	5.044	(0.498)	274189	5.00000		6.196
15 Bromomethane	94		5.435	5.435	(0.537)	185172	5.00000		6.218
16 Chloroethane	64		5.600	5.600	(0.553)	87137	5.00000		5.985
17 Trichlorofluoromethane	101		6.276	6.276	(0.620)	370608	5.00000		6.111
18 Acrolein	56		6.294	6.294	(0.622)	49160	10.0000		10.78
19 Acetonitrile	40		6.372	6.372	(0.630)	64384	10.0000		11.26
20 Acetone	58		6.433	6.433	(0.636)	66580	10.0000		12.60
21 Pentane	57		6.528	6.528	(0.645)	40172	5.00000		5.768

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd152.d
Report Date: 17-Apr-2005 12:36

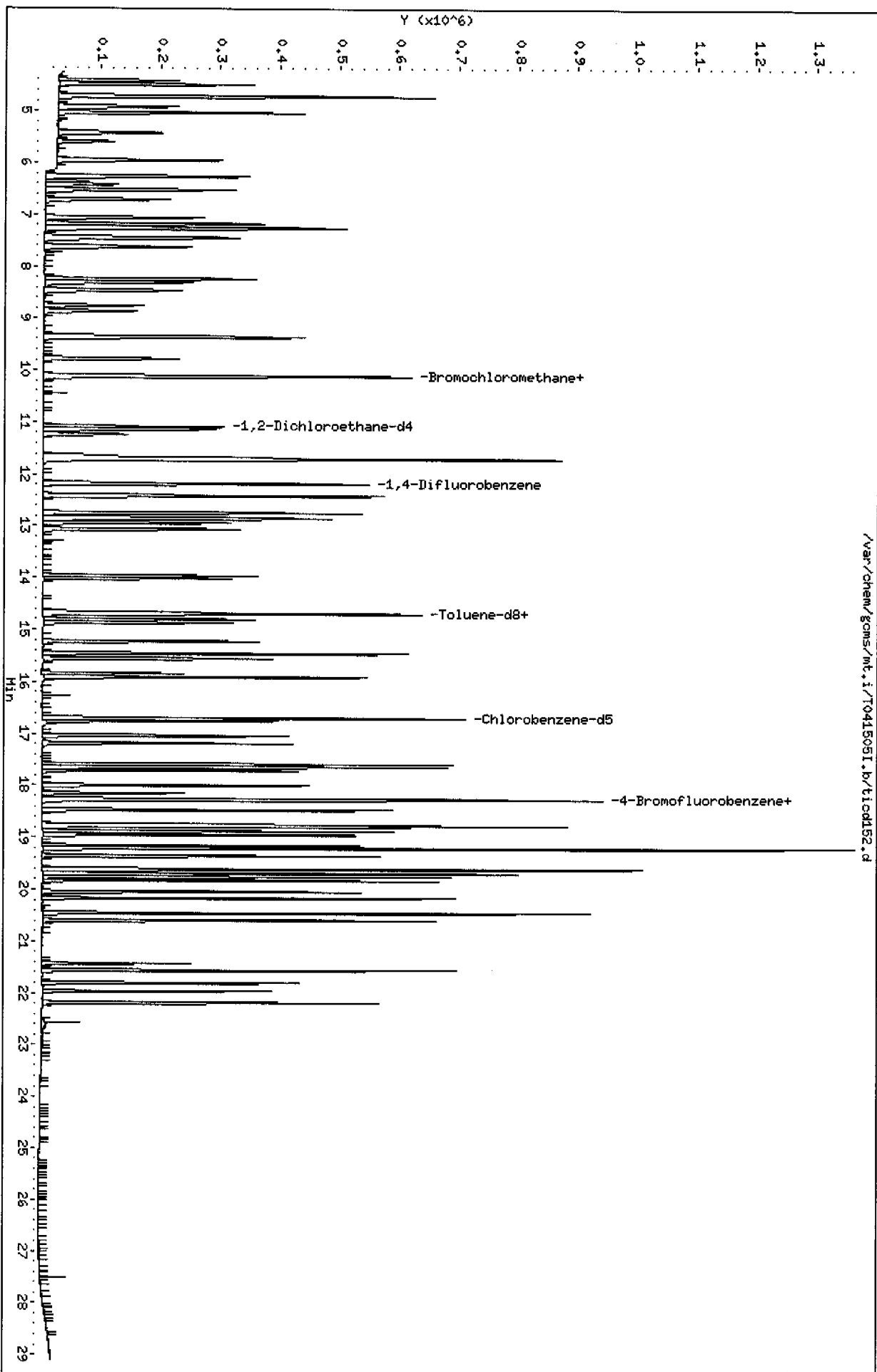
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.719	6.719	(0.664)	191072	10.0000	11.48
23 1,1-Dichloroethene	96	7.066	7.066	(0.698)	151553	5.00000	6.160
24 Acrylonitrile	53	7.187	7.187	(0.710)	98787	10.0000	11.85
25 1,1,2-Trichlorotrifluoroethane	101	7.274	7.274	(0.719)	321599	5.00000	6.071
26 Methylene Chloride	84	7.439	7.439	(0.735)	138940	5.00000	5.889
27 3-Chloropropene	39	7.465	7.465	(0.738)	127332	5.00000	5.931
28 Carbon Disulfide	76	7.621	7.621	(0.753)	514734	5.00000	6.135
29 trans-1,2-Dichloroethene	96	8.315	8.315	(0.822)	144615	5.00000	5.917
30 Methyl-t-Butyl Ether	73	8.463	8.463	(0.836)	296620	10.0000	11.66
31 1,1-Dichloroethane	63	8.758	8.758	(0.865)	247823	5.00000	5.678
32 Vinyl Acetate	43	8.871	8.871	(0.877)	349687	10.0000	11.66
33 2-Butanone	72	9.348	9.348	(0.924)	57975	10.0000	11.33
34 Hexane	56	9.374	9.374	(0.926)	119365	5.00000	5.992
35 cis 1,2-Dichloroethene	96	9.782	9.782	(0.967)	142266	5.00000	5.775
36 Chloroform	83	10.129	10.129	(1.001)	275067	5.00000	5.810
37 1,1,1-Trichloroethane	97	11.144	11.144	(1.101)	236711	5.00000	5.729
38 1,2-Dichloroethane	62	11.230	11.230	(0.922)	152650	5.00000	5.692
39 Benzene	78	11.690	11.690	(0.959)	317077	5.00000	5.635
40 1-Butanol	31	11.638	11.638	(0.955)	81211	10.0000	13.52
41 Cyclohexane	69	11.699	11.699	(0.960)	61891	5.00000	6.379
42 Carbon Tetrachloride	117	11.716	11.716	(1.158)	270266	5.00000	6.051
43 Heptane	43	12.749	12.749	(1.046)	274022	5.00000	6.248
44 1,2-Dichloropropane	63	12.827	12.827	(1.053)	116811	5.00000	5.545
45 Trichloroethene	130	12.862	12.862	(1.056)	164311	5.00000	5.919
46 Dibromomethane	93	12.931	12.931	(1.061)	160822	5.00000	5.793
47 Bromodichloromethane	83	13.070	13.070	(1.073)	265774	5.00000	5.874
48 4-Methyl-2-pentanone	43	13.963	13.963	(1.146)	327412	10.0000	12.74
49 cis-1,3-Dichloropropene	75	14.015	14.015	(1.150)	216949	5.00000	5.587
50 trans-1,3-Dichloropropene	75	14.666	14.666	(0.877)	128851	5.00000	5.349
51 Toluene	91	14.814	14.814	(0.886)	301302	5.00000	5.194
52 1,1,2-Trichloroethane	97	14.866	14.866	(0.889)	121548	5.00000	5.202
53 2-Hexanone	58	15.230	15.230	(0.911)	153685	10.0000	12.22
54 Octane	85	15.456	15.456	(0.925)	114932	5.00000	5.635
55 Dibromochloromethane	129	15.551	15.551	(0.930)	247828	5.00000	5.472
56 1,2-Dibromoethane	107	15.837	15.837	(0.948)	205440	5.00000	5.324
57 Tetrachloroethene	129	15.907	15.907	(0.952)	143696	5.00000	5.764
58 Chlorobenzene	112	16.766	16.766	(1.003)	253773	5.00000	5.244
59 Ethylbenzene	91	17.043	17.043	(1.020)	384341	5.00000	5.494
60 m-Xylene (For p-)	91	17.191	17.191	(1.029)	284663	5.00000	5.403
61 Bromoform	173	17.633	17.633	(1.055)	221761	5.00000	5.486
62 Nonane	57	17.590	17.590	(1.052)	236081	5.00000	5.710
63 Styrene	104	17.651	17.651	(1.056)	203285	5.00000	5.772
64 o-Xylene	91	17.712	17.712	(1.060)	284524	5.00000	5.355
65 1,1,2,2-Tetrachloroethane	83	17.998	17.998	(1.077)	282957	5.00000	5.660
66 1,2,3-Trichloropropane	110	18.154	18.154	(1.086)	41722	5.00000	5.660
67 Cumene	105	18.258	18.258	(1.092)	406170	5.00000	5.677
68 n-Propylbenzene	120	18.753	18.753	(1.122)	114511	5.00000	5.757

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd152.d
 Report Date: 17-Apr-2005 12:36

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.891	18.891	(1.130)	428319	5.00000	5.780
70 1,3,5-Trimethylbenzene	120	18.961	18.961	(1.134)	156812	5.00000	5.685
71 Alpha-Methylstyrene	118	19.169	19.169	(1.147)	175932	5.00000	6.017
72 Decane	57	19.212	19.212	(1.149)	280045	5.00000	5.782
73 1,2,4-Trimethylbenzene	105	19.369	19.369	(1.159)	334838	5.00000	5.771
74 1,3-Dichlorobenzene	146	19.629	19.629	(1.174)	240880	5.00000	5.490
75 Benzyl Chloride	91	19.690	19.690	(1.178)	305025	5.00000	5.948
76 1,4-Dichlorobenzene	146	19.707	19.707	(1.179)	242226	5.00000	5.487
77 1,2-Dichlorobenzene	146	20.045	20.045	(1.199)	229866	5.00000	5.488
78 Undecane	57	20.462	20.462	(1.224)	298036	5.00000	6.140
79 Dodecane	57	21.572	21.572	(1.291)	246773	5.00000	6.493
80 1,2,4-Trichlorobenzene	180	21.807	21.807	(1.305)	157141	5.00000	6.009
81 Napthalene	128	21.972	21.972	(1.315)	363438	5.00000	6.116
82 Hexachlorobutadiene	225	22.197	22.197	(1.328)	131882	5.00000	6.202
133 2,3-Dimethyl butane	43	8.255	8.255	(0.816)	347478	5.00000	6.119
134 a-Pinene	93	18.475	18.475	(1.105)	250728	5.00000	5.456
135 Camphene	93	18.779	18.779	(1.124)	165547	5.00000	5.532
136 b-Pinene	93	19.212	19.212	(1.149)	228674	5.00000	4.799
137 p-Cymene	119	19.759	19.759	(1.182)	397315	5.00000	5.892
138 d-Limonene	68	19.828	19.828	(1.186)	172589	5.00000	6.067
139 4-tert-Butyltoluene	133	20.601	20.601	(1.233)	327232	5.00000	5.817
140 Camphor	95	21.434	21.434	(1.282)	63542	5.00000	5.570
141 sec-butylbenzene	105	19.612	19.612	(1.173)	507323	5.00000	6.010
142 n-butylbenzene	91	20.167	20.167	(1.207)	392448	5.00000	5.858
143 Vinyl Bromide	106	5.955	5.955	(0.588)	307120	5.00000	6.217
144 tert-butanol	59	7.187	7.187	(0.710)	468831	10.0000	12.35
145 2,2,4-trimethylpentane	57	12.410	12.410	(1.018)	631794	5.00000	6.139
146 2-chlorotoluene	126	18.796	18.796	(1.125)	100443	5.00000	5.511

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd152.d
Date : 15-APR-2005 13:12
Client ID: SPPBV
Sample Info: IC2,1,2,,SPPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 Report Date: 17-Apr-2005 12:36

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T041505I.b/ticd153.d
 Lab Smp Id: IC3 Client Smp ID: 10PPBV
 Inj Date : 15-APR-2005 17:20
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC3,,1,3,,10PPBV
 Misc Info : T041505I,LA,,,100ML CX1308
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:36 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 17:20 Cal File: ticd153.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
*****	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.119	10.119	(1.000)	198055	10.0000	
* 2 1,4-Difluorobenzene	114	12.184	12.184	(1.000)	667570	10.0000	
* 3 Chlorobenzene-d5	117	16.713	16.713	(1.000)	591211	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.100	11.100	(0.911)	133560	10.0000	9.795
\$ 5 Toluene-d8	98	14.700	14.700	(0.880)	539609	10.0000	9.679
\$ 6 4-Bromofluorobenzene	95	18.284	18.284	(1.094)	390136	10.0000	9.612
7 Chlorodifluoromethane	51	4.410	4.410	(0.436)	634525	10.0000	9.079
8 Dichlorodifluoromethane	85	4.488	4.488	(0.444)	834419	10.0000	9.539
9 Chloromethane	52	4.714	4.714	(0.466)	101919	10.0000	9.183
10 1,2-Dichlorotetrafluoroethane	135	4.731	4.731	(0.468)	533053	10.0000	9.885
11 Vinyl Chloride	62	4.931	4.931	(0.487)	327530	10.0000	9.723
12 Methanol	31	4.914	4.914	(0.486)	296162	40.0000	38.48
13 1,3-Butadiene	54	5.044	5.044	(0.498)	229808	10.0000	9.435
14 n-Butane	43	5.044	5.044	(0.498)	527304	10.0000	9.158
15 Bromomethane	94	5.434	5.434	(0.537)	378548	10.0000	9.770
16 Chloroethane	64	5.599	5.599	(0.553)	182149	10.0000	9.616
17 Trichlorofluoromethane	101	6.276	6.276	(0.620)	744340	10.0000	9.433
18 Acrolein	56	6.293	6.293	(0.622)	99516	20.0000	16.77
19 Acetonitrile	40	6.371	6.371	(0.630)	128170	20.0000	17.24
20 Acetone	58	6.432	6.432	(0.636)	135956	20.0000	19.78
21 Pentane	57	6.527	6.527	(0.645)	82999	10.0000	9.160

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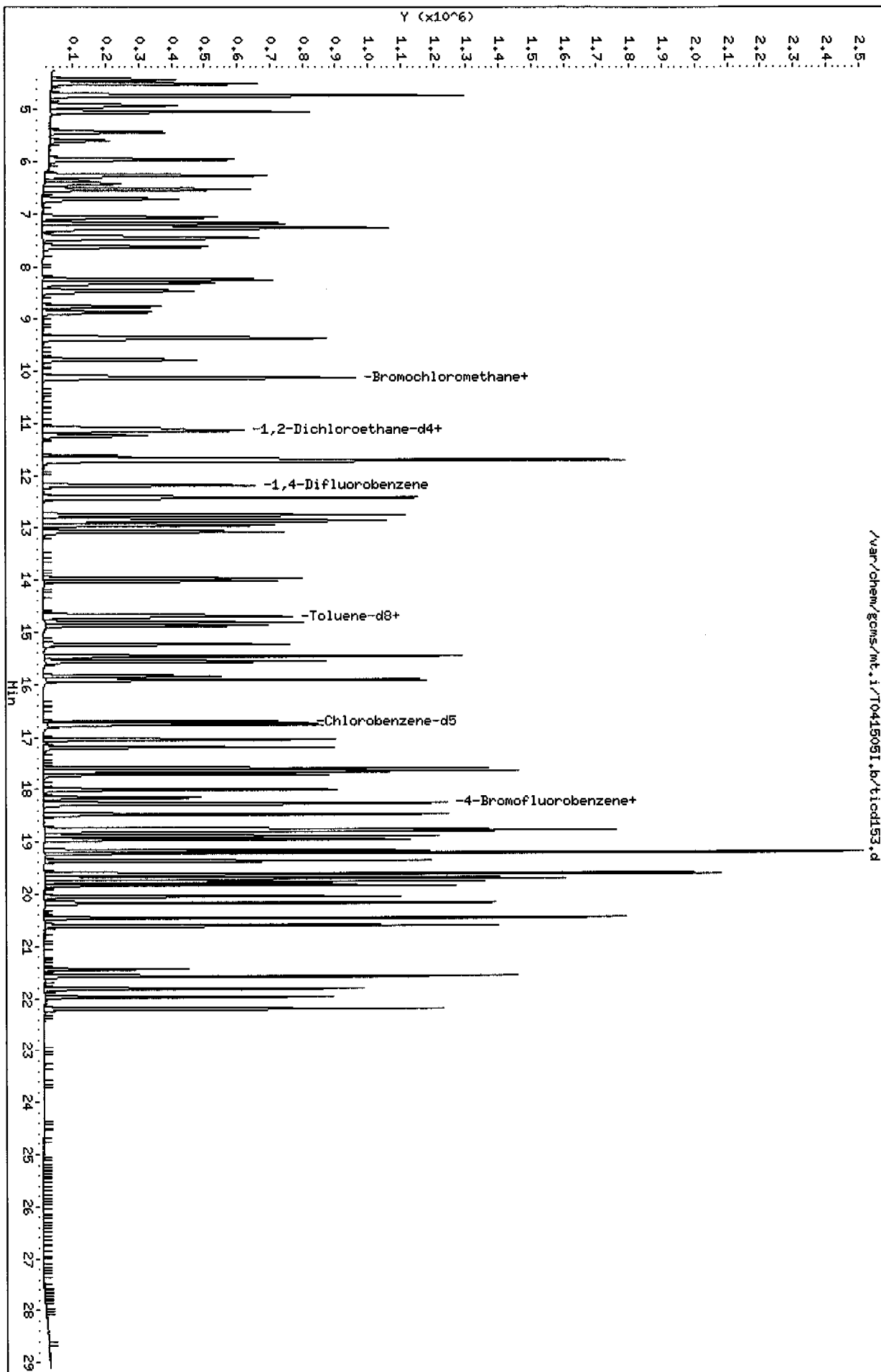
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.718	6.718	(0.664)	376546	20.0000	17.38
23 1,1-Dichloroethene	96	7.065	7.065	(0.698)	316662	10.0000	9.892
24 Acrylonitrile	53	7.187	7.187	(0.710)	197622	20.0000	18.22
25 1,1,2-Trichlorotrifluoroethane	101	7.265	7.265	(0.718)	668750	10.0000	9.702
26 Methylene Chloride	84	7.438	7.438	(0.735)	294958	10.0000	9.608
27 3-Chloropropene	39	7.464	7.464	(0.738)	257509	10.0000	9.219
28 Carbon Disulfide	76	7.621	7.621	(0.753)	1066194	10.0000	9.766
29 trans-1,2-Dichloroethene	96	8.315	8.315	(0.822)	313427	10.0000	9.856
30 Methyl-t-Butyl Ether	73	8.462	8.462	(0.836)	616016	20.0000	18.61
31 1,1-Dichloroethane	63	8.766	8.766	(0.866)	535067	10.0000	9.422
32 Vinyl Acetate	43	8.870	8.870	(0.877)	732160	20.0000	18.77
33 2-Butanone	72	9.347	9.347	(0.924)	123334	20.0000	18.52
34 Hexane	56	9.373	9.373	(0.926)	248128	10.0000	9.573
35 cis 1,2-Dichloroethene	96	9.781	9.781	(0.967)	308112	10.0000	9.612
36 Chloroform	83	10.128	10.128	(1.001)	589428	10.0000	9.569
37 1,1,1-Trichloroethane	97	11.143	11.143	(1.101)	511621	10.0000	9.517
38 1,2-Dichloroethane	62	11.239	11.239	(0.922)	333238	10.0000	9.837
39 Benzene	78	11.698	11.698	(0.960)	702076	10.0000	9.877
40 1-Butanol	31	11.638	11.638	(0.955)	171923	20.0000	22.66
41 Cyclohexane	69	11.698	11.698	(0.960)	127263	10.0000	10.38
42 Carbon Tetrachloride	117	11.716	11.716	(1.158)	564502	10.0000	9.713
43 Heptane	43	12.748	12.748	(1.046)	552659	10.0000	9.975
44 1,2-Dichloropropane	63	12.835	12.835	(1.053)	256414	10.0000	9.635
45 Trichloroethene	130	12.861	12.861	(1.056)	365441	10.0000	10.42
46 Dibromomethane	93	12.939	12.939	(1.062)	351866	10.0000	10.03
47 Bromodichloromethane	83	13.069	13.069	(1.073)	583053	10.0000	10.20
48 4-Methyl-2-pentanone	43	13.963	13.963	(1.146)	700827	20.0000	21.59
49 cis-1,3-Dichloropropene	75	14.015	14.015	(1.150)	493150	10.0000	10.05
50 trans-1,3-Dichloropropene	75	14.674	14.674	(0.878)	290393	10.0000	9.866
51 Toluene	91	14.813	14.813	(0.886)	675061	10.0000	9.523
52 1,1,2-Trichloroethane	97	14.865	14.865	(0.889)	269228	10.0000	9.429
53 2-Hexanone	58	15.230	15.230	(0.911)	343205	20.0000	22.33
54 Octane	85	15.455	15.455	(0.925)	256108	10.0000	10.28
55 Dibromochloromethane	129	15.551	15.551	(0.930)	574413	10.0000	10.38
56 1,2-Dibromoethane	107	15.846	15.846	(0.948)	466505	10.0000	9.895
57 Tetrachloroethene	129	15.915	15.915	(0.952)	310740	10.0000	10.20
58 Chlorobenzene	112	16.765	16.765	(1.003)	576672	10.0000	9.752
59 Ethylbenzene	91	17.043	17.043	(1.020)	819328	10.0000	9.584
60 m-Xylene (For p-)	91	17.190	17.190	(1.029)	607200	10.0000	9.433
61 Bromoform	173	17.642	17.642	(1.056)	513301	10.0000	10.39
62 Nonane	57	17.589	17.589	(1.052)	490408	10.0000	9.707
63 Styrene	104	17.650	17.650	(1.056)	429373	10.0000	9.977
64 o-Xylene	91	17.711	17.711	(1.060)	623156	10.0000	9.598
65 1,1,2,2-Tetrachloroethane	83	18.006	18.006	(1.077)	582224	10.0000	9.531
66 1,2,3-Trichloropropane	110	18.153	18.153	(1.086)	87946	10.0000	9.765
67 Cumene	105	18.258	18.258	(1.092)	845899	10.0000	9.676
68 n-Propylbenzene	120	18.752	18.752	(1.122)	246964	10.0000	10.16

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.891	18.891	(1.130)	886914	10.0000	9.796
70 1,3,5-Trimethylbenzene	120	18.960	18.960	(1.134)	337142	10.0000	10.00
71 Alpha-Methylstyrene	118	19.169	19.169	(1.147)	377674	10.0000	10.57
72 Decane	57	19.221	19.221	(1.150)	539747	10.0000	9.121
73 1,2,4-Trimethylbenzene	105	19.368	19.368	(1.159)	703277	10.0000	9.920
74 1,3-Dichlorobenzene	146	19.628	19.628	(1.174)	523850	10.0000	9.770
75 Benzyl Chloride	91	19.689	19.689	(1.178)	639743	10.0000	10.21
76 1,4-Dichlorobenzene	146	19.706	19.706	(1.179)	516928	10.0000	9.583
77 1,2-Dichlorobenzene	146	20.053	20.053	(1.200)	501641	10.0000	9.802
78 Undecane	57	20.461	20.461	(1.224)	612720	10.0000	10.33
79 Dodecane	57	21.572	21.572	(1.291)	506108	10.0000	10.90
80 1,2,4-Trichlorobenzene	180	21.806	21.806	(1.305)	357951	10.0000	11.20
81 Napthalene	128	21.971	21.971	(1.315)	831588	10.0000	11.45
82 Hexachlorobutadiene	225	22.197	22.197	(1.328)	290237	10.0000	11.17
133 2,3-Dimethyl butane	43	8.245	8.245	(0.815)	706058	10.0000	9.556
134 a-Pinene	93	18.474	18.474	(1.105)	548869	10.0000	9.775
135 Camphene	93	18.787	18.787	(1.124)	346659	10.0000	9.481
136 b-Pinene	93	19.212	19.212	(1.149)	464025	10.0000	7.970
137 p-Cymene	119	19.759	19.759	(1.182)	826298	10.0000	10.03
138 d-Limonene	68	19.828	19.828	(1.186)	353517	10.0000	10.17
139 4-tert-Butyltoluene	133	20.609	20.609	(1.233)	741221	10.0000	10.78
140 Camphor	95	21.433	21.433	(1.282)	113852	10.0000	8.168
141 sec-butylbenzene	105	19.611	19.611	(1.173)	1021513	10.0000	9.903
142 n-butylbenzene	91	20.166	20.166	(1.207)	835312	10.0000	10.20
143 Vinyl Bromide	106	5.955	5.955	(0.588)	634270	10.0000	9.868
144 tert-butanol	59	7.187	7.187	(0.710)	979185	20.0000	19.83
145 2,2,4-trimethylpentane	57	12.410	12.410	(1.018)	1323725	10.0000	10.18
146 2-chlorotoluene	126	18.795	18.795	(1.125)	216259	10.0000	9.710

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd153.d
Date : 15-APR-2005 17:20
Client ID: 10PPBV
Sample Info: IC3,,1,3,,10PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd154.d
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STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd154.d
 Lab Smp Id: IC4 Client Smp ID: 15PPBV
 Inj Date : 15-APR-2005 18:03
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC4,,1,4,,15PPBV
 Misc Info : T041505I,LA,,,150ML CX1308
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:36 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:03 Cal File: ticd154.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ppb (v/v))	(ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128		10.128	10.128	(1.000)		209232	10.0000	
* 2 1,4-Difluorobenzene	114		12.193	12.193	(1.000)		736350	10.0000	
* 3 Chlorobenzene-d5	117		16.713	16.713	(1.000)		634901	10.0000	
\$ 4 1,2-Dichloroethane-d4	67		11.100	11.100	(0.910)		138605	10.0000	9.216
\$ 5 Toluene-d8	98		14.709	14.709	(0.880)		580571	10.0000	9.697
\$ 6 4-Bromofluorobenzene	95		18.293	18.293	(1.094)		405732	10.0000	9.308
7 Chlorodifluoromethane	51		4.419	4.419	(0.436)		885171	15.0000	11.99
8 Dichlorodifluoromethane	85		4.497	4.497	(0.444)		1164016	15.0000	12.60
9 Chloromethane	52		4.723	4.723	(0.466)		129584	15.0000	11.05
10 1,2-Dichlorotetrafluoroethane	135		4.732	4.732	(0.467)		775933	15.0000	13.62
11 Vinyl Chloride	62		4.931	4.931	(0.487)		446384	15.0000	12.54
12 Methanol	31		4.923	4.923	(0.486)		406591	60.0000	50.01
13 1,3-Butadiene	54		5.044	5.044	(0.498)		319905	15.0000	12.43
14 n-Butane	43		5.044	5.044	(0.498)		708193	15.0000	11.64
15 Bromomethane	94		5.434	5.434	(0.537)		546944	15.0000	13.36
16 Chloroethane	64		5.608	5.608	(0.554)		259365	15.0000	12.96
17 Trichlorofluoromethane	101		6.276	6.276	(0.620)		1068824	15.0000	12.82
18 Acrolein	56		6.293	6.293	(0.621)		148403	30.0000	23.67
19 Acetonitrile	40		6.380	6.380	(0.630)		186901	30.0000	23.79
20 Acetone	58		6.432	6.432	(0.635)		188725	30.0000	25.99
21 Pentane	57		6.536	6.536	(0.645)		116088	15.0000	12.13

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd154.d
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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.727	6.727	(0.664)	554861	30.0000	24.24
23 1,1-Dichloroethene	96	7.074	7.074	(0.698)	475244	15.0000	14.05
24 Acrylonitrile	53	7.196	7.196	(0.710)	292179	30.0000	25.50
25 1,1,2-Trichlorotrifluoroethane	101	7.274	7.274	(0.718)	975359	15.0000	13.39
26 Methylene Chloride	84	7.447	7.447	(0.735)	436894	15.0000	13.47
27 3-Chloropropene	39	7.473	7.473	(0.738)	380965	15.0000	12.91
28 Carbon Disulfide	76	7.630	7.630	(0.753)	1500049	15.0000	13.01
29 trans-1,2-Dichloroethene	96	8.324	8.324	(0.822)	477840	15.0000	14.22
30 Methyl-t-Butyl Ether	73	8.471	8.471	(0.836)	965182	30.0000	27.60
31 1,1-Dichloroethane	63	8.766	8.766	(0.866)	802405	15.0000	13.38
32 Vinyl Acetate	43	8.879	8.879	(0.877)	1107213	30.0000	26.86
33 2-Butanone	72	9.356	9.356	(0.924)	195901	30.0000	27.85
34 Hexane	56	9.382	9.382	(0.926)	362540	15.0000	13.24
35 cis 1,2-Dichloroethene	96	9.790	9.790	(0.967)	497150	15.0000	14.68
36 Chloroform	83	10.137	10.137	(1.001)	893291	15.0000	13.73
37 1,1,1-Trichloroethane	97	11.152	11.152	(1.101)	789977	15.0000	13.91
38 1,2-Dichloroethane	62	11.239	11.239	(0.922)	517320	15.0000	13.84
39 Benzene	78	11.699	11.699	(0.959)	1080661	15.0000	13.78
40 1-Butanol	31	11.638	11.638	(0.954)	266010	30.0000	31.78
41 Cyclohexane	69	11.707	11.707	(0.960)	183423	15.0000	13.57
42 Carbon Tetrachloride	117	11.725	11.725	(1.158)	838925	15.0000	13.66
43 Heptane	43	12.748	12.748	(1.046)	827391	15.0000	13.54
44 1,2-Dichloropropane	63	12.835	12.835	(1.053)	406871	15.0000	13.86
45 Trichloroethene	130	12.861	12.861	(1.055)	587726	15.0000	15.19
46 Dibromomethane	93	12.939	12.939	(1.061)	562207	15.0000	14.53
47 Bromodichloromethane	83	13.069	13.069	(1.072)	909714	15.0000	14.43
48 4-Methyl-2-pentanone	43	13.963	13.963	(1.145)	1036250	30.0000	28.94
49 cis-1,3-Dichloropropene	75	14.015	14.015	(1.149)	800359	15.0000	14.79
50 trans-1,3-Dichloropropene	75	14.675	14.675	(0.878)	482608	15.0000	15.27
51 Toluene	91	14.813	14.813	(0.886)	1139361	15.0000	14.97
52 1,1,2-Trichloroethane	97	14.874	14.874	(0.890)	441434	15.0000	14.40
53 2-Hexanone	58	15.239	15.239	(0.912)	532160	30.0000	32.24
54 Octane	85	15.464	15.464	(0.925)	410778	15.0000	15.35
55 Dibromochloromethane	129	15.560	15.560	(0.931)	947187	15.0000	15.94
56 1,2-Dibromoethane	107	15.846	15.846	(0.948)	775434	15.0000	15.32
57 Tetrachloroethene	129	15.915	15.915	(0.952)	497213	15.0000	15.20
58 Chlorobenzene	112	16.766	16.766	(1.003)	967508	15.0000	15.24
59 Ethylbenzene	91	17.043	17.043	(1.020)	1335827	15.0000	14.55
60 m-Xylene (For p-)	91	17.191	17.191	(1.029)	1025997	15.0000	14.84
61 Bromoform	173	17.642	17.642	(1.056)	870054	15.0000	16.40
62 Nonane	57	17.598	17.598	(1.053)	774067	15.0000	14.27
63 Styrene	104	17.651	17.651	(1.056)	679836	15.0000	14.71
64 o-Xylene	91	17.711	17.711	(1.060)	1001318	15.0000	14.36
65 1,1,2,2-Tetrachloroethane	83	18.006	18.006	(1.077)	933262	15.0000	14.23
66 1,2,3-Trichloropropane	110	18.162	18.162	(1.087)	143596	15.0000	14.85
67 Cumene	105	18.267	18.267	(1.093)	1352798	15.0000	14.41
68 n-Propylbenzene	120	18.761	18.761	(1.123)	393102	15.0000	15.06

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd154.d
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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	----	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.891	18.891	(1.130)	1409207	15.0000	14.49
70 1,3,5-Trimethylbenzene	120	18.961	18.961	(1.134)	540011	15.0000	14.92
71 Alpha-Methylstyrene	118	19.169	19.169	(1.147)	619088	15.0000	16.14
72 Decane	57	19.221	19.221	(1.150)	801353	15.0000	12.61
73 1,2,4-Trimethylbenzene	105	19.368	19.368	(1.159)	1131653	15.0000	14.86
74 1,3-Dichlorobenzene	146	19.629	19.629	(1.174)	861224	15.0000	14.96
75 Benzyl Chloride	91	19.698	19.698	(1.179)	1014885	15.0000	15.08
76 1,4-Dichlorobenzene	146	19.715	19.715	(1.180)	867573	15.0000	14.98
77 1,2-Dichlorobenzene	146	20.054	20.054	(1.200)	849681	15.0000	15.46
78 Undecane	57	20.462	20.462	(1.224)	940215	15.0000	14.76
79 Dodecane	57	21.572	21.572	(1.291)	759001	15.0000	15.22
80 1,2,4-Trichlorobenzene	180	21.806	21.806	(1.305)	604056	15.0000	17.60
81 Napthalene	128	21.971	21.971	(1.315)	1384470	15.0000	17.76
82 Hexachlorobutadiene	225	22.197	22.197	(1.328)	476540	15.0000	17.08
133 2,3-Dimethyl butane	43	8.263	8.263	(0.816)	995905	15.0000	12.76
134 a-Pinene	93	18.475	18.475	(1.105)	888201	15.0000	14.73
135 Camphene	93	18.787	18.787	(1.124)	551894	15.0000	14.06
136 b-Pinene	93	19.212	19.212	(1.149)	697863	15.0000	11.16
137 p-Cymene	119	19.767	19.767	(1.183)	1328190	15.0000	15.01
138 d-Limonene	68	19.837	19.837	(1.187)	553677	15.0000	14.83
139 4-tert-Butyltoluene	133	20.609	20.609	(1.233)	1191825	15.0000	16.14
140 Camphor	95	21.433	21.433	(1.282)	118449	15.0000	7.913
141 sec-butylbenzene	105	19.611	19.611	(1.173)	1563728	15.0000	14.12
142 n-butylbenzene	91	20.175	20.175	(1.207)	1325222	15.0000	15.08
143 Vinyl Bromide	106	5.964	5.964	(0.589)	904514	15.0000	13.32
144 tert-butanol	59	7.196	7.196	(0.710)	1409176	30.0000	27.01
145 2,2,4-trimethylpentane	57	12.419	12.419	(1.018)	1999910	15.0000	13.95
146 2-chlorotoluene	126	18.804	18.804	(1.125)	349599	15.0000	14.62

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd154.d

Date: 15-APR-2005 18:03

Client ID: 15PP8V

Sample Info: IC4,1,4,15PP8V

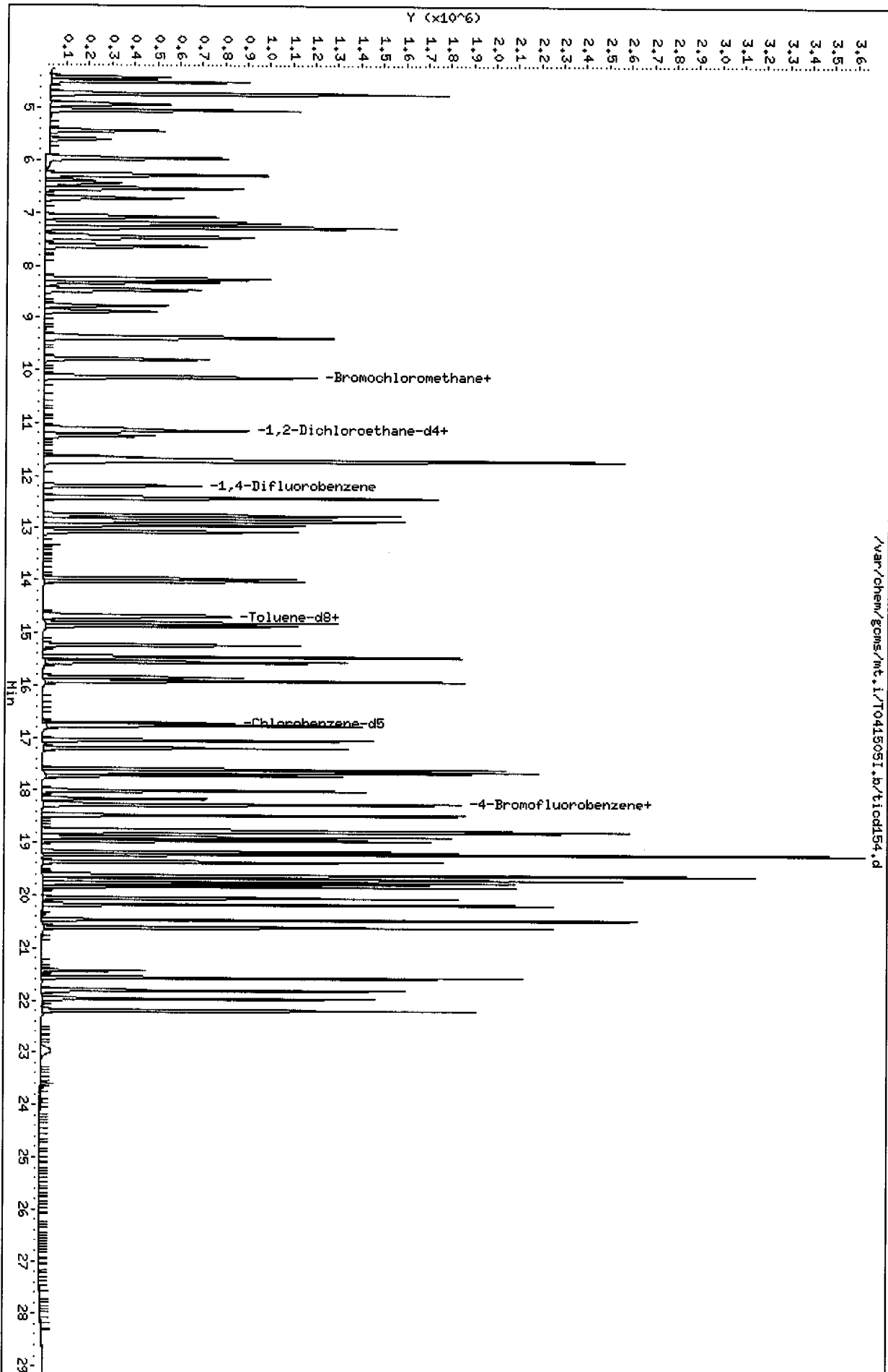
Volume Injected (uL): 500.0

Column phase: DB-5

Instrument: mt.i

Operator: 7126

Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticd155.d
 Report Date: 17-Apr-2005 12:36

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041505I.b/ticd155.d
 Lab Smp Id: IC5 Client Smp ID: 30PPBV
 Inj Date : 15-APR-2005 18:46
 Operator : 7126 Inst ID: mt.i
 Smp Info : IC5,,1,5,,30PPBV
 Misc Info : T041505I,LA,,,300ML CX1308
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:36 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.134	10.134	(1.000)	194749	10.0000	
* 2 1,4-Difluorobenzene	114	12.199	12.199	(1.000)	721210	10.0000	
* 3 Chlorobenzene-d5	117	16.719	16.719	(1.000)	629148	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.106	11.106	(0.910)	134051	10.0000	9.100
\$ 5 Toluene-d8	98	14.715	14.715	(0.880)	569614	10.0000	9.601
\$ 6 4-Bromofluorobenzene	95	18.298	18.298	(1.094)	378761	10.0000	8.769
7 Chlorodifluoromethane	51	4.416	4.416	(0.436)	1644054	30.0000	23.92
8 Dichlorodifluoromethane	85	4.494	4.494	(0.443)	2132572	30.0000	24.79
9 Chloromethane	52	4.720	4.720	(0.466)	230190	30.0000	21.09
10 1,2-Dichlorotetrafluoroethane	135	4.729	4.729	(0.467)	1409773	30.0000	26.59
11 Vinyl Chloride	62	4.937	4.937	(0.487)	807687	30.0000	24.38
12 Methanol	31	4.919	4.919	(0.485)	777260	120.000	102.7
13 1,3-Butadiene	54	5.041	5.041	(0.497)	561115	30.0000	23.43
14 n-Butane	43	5.041	5.041	(0.497)	1243741	30.0000	21.97
15 Bromomethane	94	5.440	5.440	(0.537)	982532	30.0000	25.79
16 Chloroethane	64	5.614	5.614	(0.554)	463860	30.0000	24.90
17 Trichlorofluoromethane	101	6.282	6.282	(0.620)	1883920	30.0000	24.28
18 Acrolein	56	6.299	6.299	(0.622)	277249	60.0000	47.50
19 Acetonitrile	40	6.386	6.386	(0.630)	367165	60.0000	50.21
20 Acetone	58	6.438	6.438	(0.635)	347277	60.0000	51.38
21 Pentane	57	6.542	6.542	(0.646)	200749	30.0000	22.53

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd155.d
Report Date: 17-Apr-2005 12:36

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.724	6.724	(0.664)	1037516	60.0000	48.71
23 1,1-Dichloroethene	96	7.071	7.071	(0.698)	804975	30.0000	25.57
24 Acrylonitrile	53	7.201	7.201	(0.711)	535980	60.0000	50.26
25 1,1,2-Trichlorotrifluoroethane	101	7.279	7.279	(0.718)	1578605	30.0000	23.29
26 Methylene Chloride	84	7.453	7.453	(0.735)	771773	30.0000	25.57
27 3-Chloropropene	39	7.479	7.479	(0.738)	694272	30.0000	25.28
28 Carbon Disulfide	76	7.635	7.635	(0.753)	2727604	30.0000	25.41
29 trans-1,2-Dichloroethene	96	8.329	8.329	(0.822)	835887	30.0000	26.73
30 Methyl-t-Butyl Ether	73	8.468	8.468	(0.836)	1747238	60.0000	53.68
31 1,1-Dichloroethane	63	8.772	8.772	(0.866)	1483120	30.0000	26.56
32 Vinyl Acetate	43	8.884	8.884	(0.877)	2130922	60.0000	55.54
33 2-Butanone	72	9.362	9.362	(0.924)	335545	60.0000	51.26
34 Hexane	56	9.388	9.388	(0.926)	603906	30.0000	23.70
35 cis 1,2-Dichloroethene	96	9.795	9.795	(0.967)	895257	30.0000	28.40
36 Chloroform	83	10.142	10.142	(1.001)	1619564	30.0000	26.74
37 1,1,1-Trichloroethane	97	11.149	11.149	(1.100)	1418441	30.0000	26.83
38 1,2-Dichloroethane	62	11.244	11.244	(0.922)	989281	30.0000	27.03
39 Benzene	78	11.704	11.704	(0.959)	1750885	30.0000	22.80
40 1-Butanol	31	11.652	11.652	(0.955)	481619	60.0000	58.75
41 Cyclohexane	69	11.704	11.704	(0.959)	285374	30.0000	21.55
42 Carbon Tetrachloride	117	11.730	11.730	(1.158)	1410156	30.0000	24.68
43 Heptane	43	12.754	12.754	(1.046)	1390312	30.0000	23.23
44 1,2-Dichloropropane	63	12.841	12.841	(1.053)	706724	30.0000	24.58
45 Trichloroethene	130	12.867	12.867	(1.055)	993030	30.0000	26.21
46 Dibromomethane	93	12.945	12.945	(1.061)	969587	30.0000	25.59
47 Bromodichloromethane	83	13.075	13.075	(1.072)	1609456	30.0000	26.06
48 4-Methyl-2-pentanone	43	13.977	13.977	(1.146)	1790074	60.0000	51.04
49 cis-1,3-Dichloropropene	75	14.021	14.021	(1.149)	1488007	30.0000	28.08
50 trans-1,3-Dichloropropene	75	14.680	14.680	(0.878)	946514	30.0000	30.22 (A)
51 Toluene	91	14.819	14.819	(0.886)	2157521	30.0000	28.60
52 1,1,2-Trichloroethane	97	14.880	14.880	(0.890)	832431	30.0000	27.40
53 2-Hexanone	58	15.244	15.244	(0.912)	934651	60.0000	57.14
54 Octane	85	15.470	15.470	(0.925)	709712	30.0000	26.76
55 Dibromochloromethane	129	15.565	15.565	(0.931)	1726128	30.0000	29.31
56 1,2-Dibromoethane	107	15.851	15.851	(0.948)	1444229	30.0000	28.79
57 Tetrachloroethene	129	15.921	15.921	(0.952)	838452	30.0000	25.86
58 Chlorobenzene	112	16.771	16.771	(1.003)	1793138	30.0000	28.50
59 Ethylbenzene	91	17.049	17.049	(1.020)	2535027	30.0000	27.87
60 m-Xylene (For p-)	91	17.196	17.196	(1.029)	1987355	30.0000	29.01
61 Bromoform	173	17.647	17.647	(1.056)	1574338	30.0000	29.95
62 Nonane	57	17.604	17.604	(1.053)	1343342	30.0000	24.98
63 Styrene	104	17.665	17.665	(1.057)	1201778	30.0000	26.24
64 o-Xylene	91	17.725	17.725	(1.060)	1883971	30.0000	27.27
65 1,1,2,2-Tetrachloroethane	83	18.012	18.012	(1.077)	1683120	30.0000	25.89
66 1,2,3-Trichloropropane	110	18.168	18.168	(1.087)	270707	30.0000	28.24
67 Cumene	105	18.272	18.272	(1.093)	2459270	30.0000	26.43
68 n-Propylbenzene	120	18.767	18.767	(1.122)	680378	30.0000	26.31

Data File: /var/chem/gcms/mt.i/T041505I.b/ticd155.d
 Report Date: 17-Apr-2005 12:36

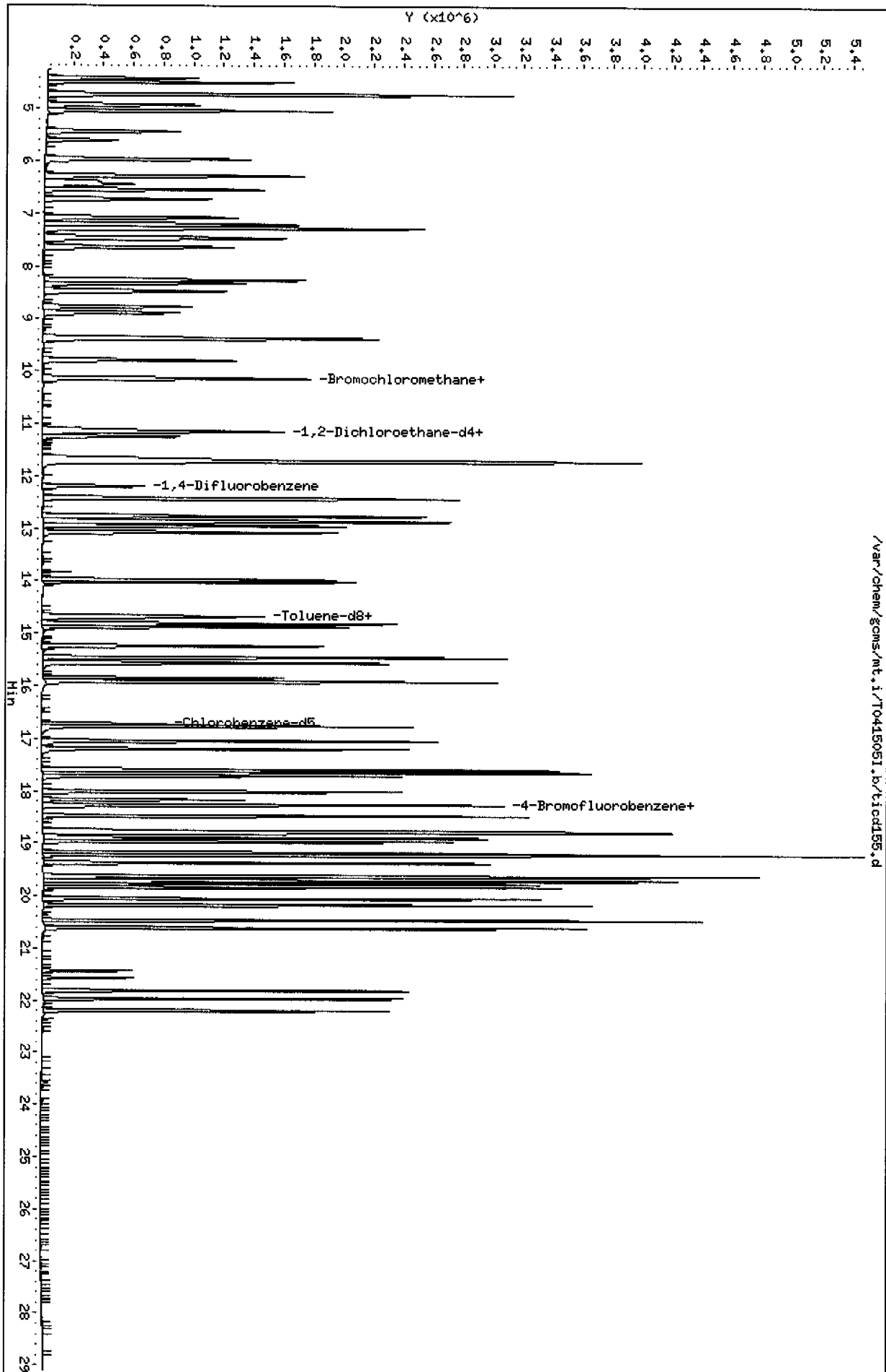
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ppb (v/v))	(ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====	
69 4-Ethyltoluene	105	18.905	18.905	(1.131)	2465815	30.0000	25.59	
70 1,3,5-Trimethylbenzene	120	18.975	18.975	(1.135)	948269	30.0000	26.44	
71 Alpha-Methylstyrene	118	19.183	19.183	(1.147)	1123688	30.0000	29.56	
72 Decane	57	19.226	19.226	(1.150)	1269788	30.0000	20.16	
73 1,2,4-Trimethylbenzene	105	19.383	19.383	(1.159)	2006263	30.0000	26.59	
74 1,3-Dichlorobenzene	146	19.643	19.643	(1.175)	1516915	30.0000	26.59	
75 Benzyl Chloride	91	19.704	19.704	(1.179)	1694197	30.0000	25.41	
76 1,4-Dichlorobenzene	146	19.721	19.721	(1.180)	1542414	30.0000	26.87	
77 1,2-Dichlorobenzene	146	20.059	20.059	(1.200)	1588785	30.0000	29.17	
78 Undecane	57	20.467	20.467	(1.224)	1579785	30.0000	25.03	
79 Dodecane	57	21.569	21.569	(1.290)	214132	30.0000	4.333	
80 1,2,4-Trichlorobenzene	180	21.812	21.812	(1.305)	993207	30.0000	29.21	
81 Napthalene	128	21.968	21.968	(1.314)	2320090	30.0000	30.03 (A)	
82 Hexachlorobutadiene	225	22.202	22.202	(1.328)	604834	30.0000	21.88	
133 2,3-Dimethyl butane	43	8.260	8.260	(0.815)	1740692	30.0000	23.96	
134 a-Pinene	93	18.480	18.480	(1.105)	1611969	30.0000	26.98	
135 Camphene	93	18.793	18.793	(1.124)	950851	30.0000	24.44	
136 b-Pinene	93	19.218	19.218	(1.149)	1145821	30.0000	18.49	
137 p-Cymene	119	19.773	19.773	(1.183)	2182731	30.0000	24.89	
138 d-Limonene	68	19.842	19.842	(1.187)	928470	30.0000	25.10	
139 4-tert-Butyltoluene	133	20.615	20.615	(1.233)	2025673	30.0000	27.69	
140 Camphor	95	21.439	21.439	(1.282)	159843	30.0000	10.78	
141 sec-butylbenzene	105	19.617	19.617	(1.173)	2462248	30.0000	22.43	
142 n-butylbenzene	91	20.181	20.181	(1.207)	2239392	30.0000	25.71	
143 Vinyl Bromide	106	5.969	5.969	(0.589)	1575970	30.0000	24.94	
144 tert-butanol	59	7.210	7.210	(0.711)	2411939	60.0000	49.67	
145 2,2,4-trimethylpentane	57	12.424	12.424	(1.018)	3323392	30.0000	23.66	
146 2-chlorotoluene	126	18.810	18.810	(1.125)	611886	30.0000	25.82	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mt.i/T0415051.b/ticd155.d
Date : 15-APR-2005 18:46
Client ID: 30PPBW
Sample Info: IC5,1,5,,30PPBW
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T041505I.b/ticvd15.d
 Report Date: 17-Apr-2005 12:42

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T041505I.b/ticvd15.d
 Lab Smp Id: ICV
 Inj Date : 15-APR-2005 20:13
 Operator : 7126
 Smp Info : ICV,,3,,LCS
 Misc Info : T041505I,LA,,,100ML CX1309
 Comment :
 Method : /var/chem/gcms/mt.i/T041505I.b/LA.m
 Meth Date : 17-Apr-2005 12:41 tajh
 Cal Date : 15-APR-2005 18:46
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: qmidhp01

Inst ID: mt.i
 Quant Type: ISTD
 Cal File: ticd155.d
 QC Sample: LCS
 Compound Sublist: ICV.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

QUANT SIG						CONCENTRATIONS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
*****	****	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.114	10.134	(1.000)	183401	10.0000	
* 2 1,4-Difluorobenzene	114	12.188	12.199	(1.000)	632560	10.0000	
* 3 Chlorobenzene-d5	117	16.717	16.719	(1.000)	570900	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.094	11.106	(0.910)	117082	9.06194	9.062
\$ 5 Toluene-d8	98	14.704	14.715	(0.880)	517727	9.61681	9.617
\$ 6 4-Bromofluorobenzene	95	18.287	18.298	(1.094)	389316	9.93301	9.933
8 Dichlorodifluoromethane	85	4.492	4.494	(0.444)	833785	10.2935	10.29
9 Chloromethane	52	4.718	4.720	(0.466)	95755	9.31743	9.317
10 1,2-Dichlorotetrafluoroethane	135	4.726	4.729	(0.467)	573811	11.4913	11.49
11 Vinyl Chloride	62	4.934	4.937	(0.488)	322845	10.3501	10.35
15 Bromomethane	94	5.429	5.440	(0.537)	329360	9.17977	9.180
16 Chloroethane	64	5.602	5.614	(0.554)	167678	9.55923	9.559
17 Trichlorofluoromethane	101	6.271	6.282	(0.620)	715804	9.79630	9.796
23 1,1-Dichloroethene	96	7.069	7.071	(0.699)	303812	10.2490	10.25
25 1,1,2-Trichlorotrifluoroethane	101	7.268	7.279	(0.719)	652453	10.2218	10.22
26 Methylene Chloride	84	7.442	7.453	(0.736)	285572	10.0457	10.04
31 1,1-Dichloroethane	63	8.761	8.772	(0.866)	495461	9.42220	9.422
35 cis 1,2-Dichloroethene	96	9.776	9.795	(0.967)	296416	9.98581	9.986
36 Chloroform	83	10.123	10.142	(1.001)	562972	9.86965	9.870
37 1,1,1-Trichloroethane	97	11.138	11.149	(1.101)	505151	10.1474	10.15
38 1,2-Dichloroethane	62	11.233	11.244	(0.922)	315057	9.81532	9.815

Data File: /var/chem/gcms/mt.i/T041505I.b/ticvdl5.d
Report Date: 17-Apr-2005 12:42

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
39 Benzene	78	11.693	11.704	(0.959)	674976	10.0211	10.02
42 Carbon Tetrachloride	117	11.719	11.730	(1.159)	561587	10.4350	10.43
44 1,2-Dichloropropane	63	12.830	12.841	(1.053)	240890	9.55298	9.553
45 Trichloroethene	130	12.856	12.867	(1.055)	380210	11.4425	11.44
49 cis-1,3-Dichloropropene	75	14.010	14.021	(1.149)	397751	8.55709	8.557
50 trans-1,3-Dichloropropene	75	14.669	14.680	(0.878)	272105	9.57407	9.574
51 Toluene	91	14.808	14.819	(0.886)	712628	10.4107	10.41
52 1,1,2-Trichloroethane	97	14.869	14.880	(0.889)	273190	9.90852	9.908
56 1,2-Dibromoethane	107	15.840	15.851	(0.948)	453516	9.96170	9.962
57 Tetrachloroethene	129	15.910	15.921	(0.952)	335976	11.4215	11.42
58 Chlorobenzene	112	16.760	16.771	(1.003)	593437	10.3929	10.39
59 Ethylbenzene	91	17.038	17.049	(1.019)	815520	9.87943	9.879
60 m-Xylene (For p-)	91	17.194	17.196	(1.029)	1181888	19.0139	19.01
63 Styrene	104	17.645	17.665	(1.056)	452811	10.8960	10.90
64 o-Xylene	91	17.714	17.725	(1.060)	623109	9.93877	9.939
65 1,1,2,2-Tetrachloroethane	83	18.001	18.012	(1.077)	570946	9.67939	9.679
70 1,3,5-Trimethylbenzene	120	18.955	18.975	(1.134)	307966	9.46297	9.463
73 1,2,4-Trimethylbenzene	105	19.363	19.383	(1.158)	670972	9.80133	9.801
74 1,3-Dichlorobenzene	146	19.623	19.643	(1.174)	549515	10.6137	10.61
75 Benzyl Chloride	91	19.693	19.704	(1.178)	145357	2.40249	2.402
76 1,4-Dichlorobenzene	146	19.701	19.721	(1.179)	553951	10.6349	10.63
77 1,2-Dichlorobenzene	146	20.048	20.059	(1.199)	519088	10.5043	10.50
80 1,2,4-Trichlorobenzene	180	21.801	21.812	(1.304)	330181	10.7002	10.70
81 Napthalene	128	21.966	21.968	(1.314)	395453	5.72167	5.722 (R)
82 Hexachlorobutadiene	225	22.200	22.202	(1.328)	291100	11.6032	11.60
133 2,3-Dimethyl butane	43	8.249	8.260	(0.816)	428440	6.26197	6.262 (R)
134 a-Pinene	93	18.478	18.480	(1.105)	360323	6.64535	6.645
135 Camphene	93	18.782	18.793	(1.124)	231940	6.56928	6.569
136 b-Pinene	93	19.215	19.218	(1.149)	286373	5.09354	5.094 (R)
137 p-Cymene	119	19.762	19.773	(1.182)	525806	6.60861	6.609
138 d-Limonene	68	19.831	19.842	(1.186)	208425	6.20960	6.210 (R)
139 4-tert-Butyltoluene	133	20.604	20.615	(1.233)	448798	6.76156	6.762
140 Camphor	95	21.436	21.439	(1.282)	48494	3.60303	3.603 (R)
141 sec-butylbenzene	105	19.606	19.617	(1.173)	646547	6.49109	6.491 (R)
142 n-butylbenzene	91	20.170	20.181	(1.207)	497955	6.30010	6.300 (R)
143 Vinyl Bromide	106	5.958	5.969	(0.589)	385391	6.47520	6.475 (R)
144 tert-butanol	59	7.182	7.210	(0.710)	1365929	29.8703	29.87 (R)
145 2,2,4-trimethylpentane	57	12.413	12.424	(1.018)	828125	6.72267	6.723
146 2-chlorotoluene	126	18.799	18.810	(1.125)	144709	6.72886	6.729

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mt.i/T041505I.b/ticvd15.d
 Report Date: 17-Apr-2005 12:42

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mt.i
 Lab File ID: ticvd15.d
 Lab Smp Id: ICV
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 7126

Calibration Date: 15-APR-2005
 Calibration Time: 17:20

Level: LOW
 Sample Type: AIR

Method File: /var/chem/gcms/mt.i/T041505I.b/LA.m
 Misc Info: T041505I,LA,,,100ML CX1309

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	198055	117843	278267	183401	-7.40
2 1,4-Difluorobenze	667570	397204	937936	632560	-5.24
3 Chlorobenzene-d5	591211	351771	830651	570900	-3.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	10.12	9.79	10.45	10.11	-0.05
2 1,4-Difluorobenze	12.18	11.85	12.51	12.19	0.03
3 Chlorobenzene-d5	16.71	16.38	17.04	16.72	0.02

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T041505I.b/ticvdl5.d
Report Date: 17-Apr-2005 12:42

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV
Level: LOW

Client SDG: T041505I
Fraction: OTHER

Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: ICV.sub

Operator: 7126
SampleType: LCS
Quant Type: ISTD

Method File: /var/chem/gcms/mt.i/T041505I.b/LA.m
Misc Info: T041505I,LA,,,100ML CX1309

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
8 Dichlorodifluorome	10.00	10.29	102.93	65-135
9 Chloromethane	10.00	9.317	93.17	65-135
10 1,2-Dichlorotetra	10.00	11.49	114.91	65-135
11 Vinyl Chloride	10.00	10.35	103.50	65-135
12 Methanol	40.00	0.000	*	65-135
15 Bromomethane	10.00	9.180	91.80	65-135
16 Chloroethane	10.00	9.559	95.59	65-135
17 Trichlorofluoromet	10.00	9.796	97.96	65-135
18 Acrolein	20.00	0.000	*	65-135
19 Acetonitrile	20.00	0.000	*	65-135
20 Acetone	20.00	0.000	*	65-135
22 Ethyl Ether	20.00	0.000	*	65-135
23 1,1-Dichloroethene	10.00	10.25	102.49	65-135
24 Acrylonitrile	20.00	0.000	*	65-135
25 1,1,2-Trichlorotri	10.00	10.22	102.22	65-135
26 Methylene Chloride	10.00	10.04	100.46	65-135
30 Methyl-t-Butyl Et	20.00	0.000	*	65-135
31 1,1-Dichloroethane	10.00	9.422	94.22	65-135
32 Vinyl Acetate	20.00	0.000	*	65-135
33 2-Butanone	20.00	0.000	*	65-135
35 cis 1,2-Dichloroet	10.00	9.986	99.86	65-135
36 Chloroform	10.00	9.870	98.70	65-135
37 1,1,1-Trichloroeth	10.00	10.15	101.47	65-135
38 1,2-Dichloroethane	10.00	9.815	98.15	65-135
39 Benzene	10.00	10.02	100.21	65-135
40 1-Butanol	20.00	0.000	*	65-135
42 Carbon Tetrachlori	10.00	10.43	104.35	65-135
44 1,2-Dichloropropan	10.00	9.553	95.53	65-135
45 Trichloroethene	10.00	11.44	114.43	65-135
48 4-Methyl-2-pentan	20.00	0.000	*	65-135
49 cis-1,3-Dichloropr	10.00	8.557	85.57	65-135
50 trans-1,3-Dichloro	10.00	9.574	95.74	65-135
51 Toluene	10.00	10.41	104.11	65-135

Not spiked 4/17/05

Data File: /var/chem/gcms/mt.i/T041505I.b/ticvdl5.d
Report Date: 17-Apr-2005 12:42

* not spiked
4/17/05

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
52 1,1,2-Trichloroeth	10.00	9.908	99.09	65-135
53 2-Hexanone	20.00	0.000	*	65-135
56 1,2-Dibromoethane	10.00	9.962	99.62	65-135
57 Tetrachloroethene	10.00	11.42	114.22	65-135
58 Chlorobenzene	10.00	10.39	103.93	65-135
59 Ethylbenzene	10.00	9.879	98.79	65-135
60 m-Xylene (For p-)	20.00	19.01	95.07	65-135
63 Styrene	10.00	10.90	108.96	65-135
64 o-Xylene	10.00	9.939	99.39	65-135
65 1,1,2,2-Tetrachlor	10.00	9.679	96.79	65-135
66 1,2,3-Trichloropr	10.00	0.000	*	65-135
69 4-Ethyltoluene	10.00	0.000	*	65-135
70 1,3,5-Trimethylben	10.00	9.463	94.63	65-135
73 1,2,4-Trimethylben	10.00	9.801	98.01	65-135
74 1,3-Dichlorobenzen	10.00	10.61	106.14	65-135
75 Benzyl Chloride	10.00	2.402	24.02	20-180
76 1,4-Dichlorobenzen	10.00	10.63	106.35	65-135
77 1,2-Dichlorobenzen	10.00	10.50	105.04	65-135
80 1,2,4-Trichloroben	10.00	10.70	107.00	65-135
81 Napthalene	10.00	5.722	57.22*	65-135
82 Hexachlorobutadien	10.00	11.60	116.03	65-135
133 2,3-Dimethyl butan	10.00	6.262	62.62*	65-135
134 a-Pinene	10.00	6.645	66.45	65-135
135 Camphene	10.00	6.569	65.69	65-135
136 b-Pinene	10.00	5.094	50.94*	65-135
137 p-Cymene	10.00	6.609	66.09	65-135
138 d-Limonene	10.00	6.210	62.10*	65-135
139 4-tert-Butyltoluen	10.00	6.762	67.62	65-135
140 Camphor	10.00	3.603	36.03*	65-135
141 sec-butylbenzene	10.00	6.491	64.91*	65-135
142 n-butylbenzene	10.00	6.300	63.00*	65-135
143 Vinyl Bromide	10.00	6.475	64.75*	65-135
144 tert-butanol	50.00	29.87	59.74*	65-135
145 2,2,4-trimethylpen	10.00	6.723	67.23	65-135
146 2-chlorotoluene	10.00	6.729	67.29	65-135

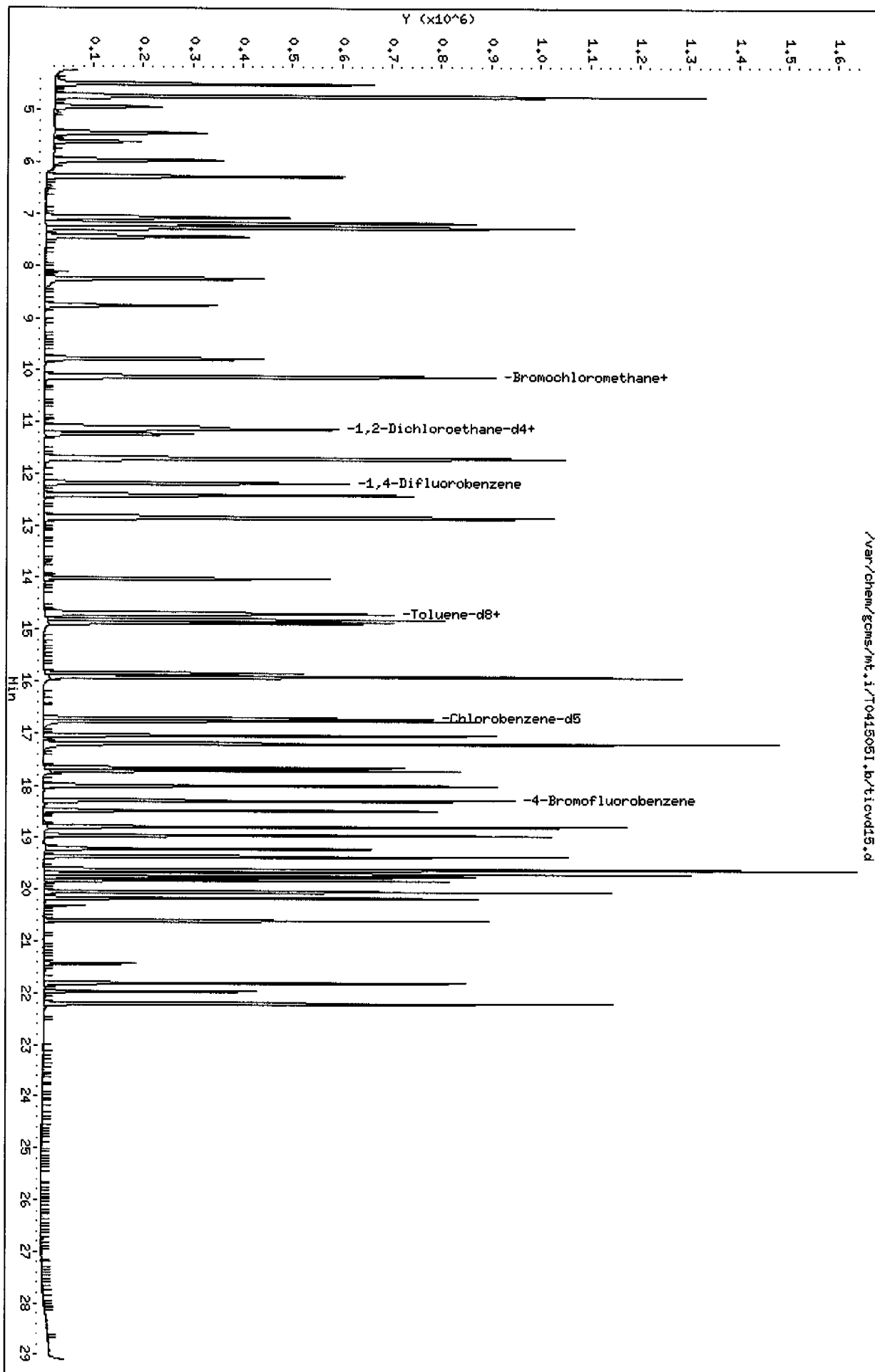
↓

see 2nd
source
analysis
on
4/19/05.
JPW
4.20.05

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	9.062	90.62	70-130
\$ 5 Toluene-d8	10.00	9.617	96.17	70-130
\$ 6 4-Bromofluorobenze	10.00	9.933	99.33	70-130

Data File: /var/chem/gcms/mt.i/T0415051.b/ticwd15.d
Date : 15-APR-2005 20:13
Client ID:
Sample Info: ICV,3,LCS
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



STL Knoxville
TO-14/15 RUN LOG

JY: 5110046
G8PE4
Inst: MT

GCMS Analysis: TO-14/15

Analyst: HUR

Preventive Maintenance Performed ✓

Qtimes Batch: 46-5110047

Date: 4/19/05

System Date/Time ok (y/n): ✓

Target Batch: T041905

BFB Time: 1118

Surr/IS ID: V077

IS #1 Area: 148555
148574

ICAL Batch: T0415051

Time	Lot No.	File ID	Can #	Comments	I/S	Pos	Vol* (ml)	Use	DUP
1118	huc	TBFB D19	-		-	16	100	✓	-
1200	CCV	TCCVD19	-	CX-1308	-	STD	100	N	-
1309	CCV	TCCVD19A	-	CX-1307	-	15	100	✓	-
1352	LCS	TLCSD19	-	CX-1309	-	13	100	✓	-
1435	ICV	TKVD19	CX-1312	X-NA + naph only	-	12	100	✓	-
1548	Blk	5441	11414		-	16	500	-	-
1630	Blk	5441A	11414	INST BLK	-	16	500	✓	-
1758	HSD080151	G78V1	12149	bteys. 2.07	-	1	1035	Y	1
1843	HSD110109	G74V4	1115	1.80	-	2	900	Y	2
1932		VS	1514	1.88	-	3	940	Y	3
2019		V6	11205	1.81	-	4	905	Y	4
2107		V7	12636	1.86	-	5	930	Y	5
2154		V8	1498	2.00	-	6	1000	Y	6
2241		V9	3390	1.85	-	7	925	Y	7
2328		WA	04401	2.24	-	8	1120	Y	8
0014		WC	12266	1.74	-	9	870	Y	9
0101		WD	12208	1.98	-	10	990	Y	10
0147		WF	12490	1.81	-	11	905	Y	11
0230		WG	12440	-	-	12	500	Y	12
0313	HSD040161	G7LMX	93026	1.41 bteyn.	-	13	500	Y	13
0356		M1	12455	1.41	-	14		Y	14
0439		M1D	12455	1.56 1.41	-	14		Y	15
0758		M2	12257	1.61 * 1.56	-	1		Y	16
0842		M4	2989	1.37 1.61	-	2		Y	17
0925		M5	2970	1.37	-	3		✓	17
NOT RUN	HSD160120	G8H56	0091	-	-	4	500		
		58	92090	1.25	-	5			
		6A	1525	1.27	-	6			
1713	Blk	5438	12462		-	16	500	Y	OK

* Entech programmed volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calculations.

0650 Blk 5439 93132
Analyst: HUR Date: 4/19/05

MS027R11.DOC, 5/30/03

0523 Blk 5440 2972
0607 5440A 2972

15 500 N -
15 500 ✓ -

Data File: /var/chem/gcms/mt.i/T041905.b/ticvd19.d
 Report Date: 20-Apr-2005 10:14

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T041905.b/ticvd19.d
 Lab Smp Id: TICVD19 Client Smp ID: Second source
 Inj Date : 19-APR-2005 14:35
 Operator : 7126 Inst ID: mt.i
 Smp Info : TICVD19,,3,,LCS
 Misc Info : T041905,LA,,,100ML CX-1312
 Comment :
 Method : /var/chem/gcms/mt.i/T041905.b/LA.m
 Meth Date : 20-Apr-2005 08:47 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 12 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ssxtra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
						(ppb(v/v))	(ppb(v/v))
*****	----	==	=====	=====	-----	-----	-----
* 1 Bromochloromethane	128	10.113	10.110	(1.000)	127520	10.0000	
* 2 1,4-Difluorobenzene	114	12.178	12.184	(1.000)	407674	10.0000	
* 3 Chlorobenzene-d5	117	16.707	16.713	(1.000)	375532	10.0000	
81 Napthalene	128	21.965	21.962	(1.315)	512815	11.2798	11.28
133 2,3-Dimethyl butane	43	8.248	8.260	(0.816)	442993	9.31199	9.312
134 a-Pinene	93	18.477	18.480	(1.106)	405820	11.3782	11.38
135 Camphene	93	18.781	18.793	(1.124)	262842	11.3175	11.32
136 b-Pinene	93	19.206	19.218	(1.150)	376938	10.1923	10.19
137 p-Cymene	119	19.761	19.773	(1.183)	540049	10.3189	10.32
138 d-Limonene	68	19.830	19.842	(1.187)	239202	10.8341	10.83
139 4-tert-Butyltoluene	133	20.603	20.615	(1.233)	479003	10.9710	10.97
140 Camphor	95	21.427	21.439	(1.282)	121540	13.7281	13.73 (R)
141 sec-butylbenzene	105	19.605	19.617	(1.173)	685740	10.4662	10.47
142 n-butylbenzene	91	20.169	20.181	(1.207)	528413	10.1635	10.16
143 Vinyl Bromide	106	5.957	5.969	(0.589)	376859	9.10656	9.106
144 tert-butanol	59	7.172	7.210	(0.709)	1494853	47.0148	47.01
145 2,2,4-trimethylpentane	57	12.412	12.424	(1.019)	876775	11.0439	11.04
146 2-chlorotoluene	126	18.798	18.810	(1.125)	154197	10.9002	10.90

Data File: /var/chem/gcms/mt.i/T041905.b/ticvd19.d
Report Date: 20-Apr-2005 10:14

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mt.i/T041905.b/ticvd19.d
 Report Date: 20-Apr-2005 10:14

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i	Calibration Date: 19-APR-2005
Lab File ID: ticvd19.d	Calibration Time: 13:09
Lab Smp Id: TICVD19	Client Smp ID: Second source
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 7126	
Method File: /var/chem/gcms/mt.i/T041905.b/LA.m	
Misc Info: T041905,LA,,,100ML CX-1312	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	148574	88402	208746	127520	-14.17
2 1,4-Difluorobenze	491479	292430	690528	407674	-17.05
3 Chlorobenzene-d5	441089	262448	619730	375532	-14.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	10.11	9.78	10.44	10.11	0.03
2 1,4-Difluorobenze	12.18	11.85	12.51	12.18	-0.05
3 Chlorobenzene-d5	16.71	16.38	17.04	16.71	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T041905.b/ticvd19.d

Report Date: 20-Apr-2005 11:17

STL Knoxville

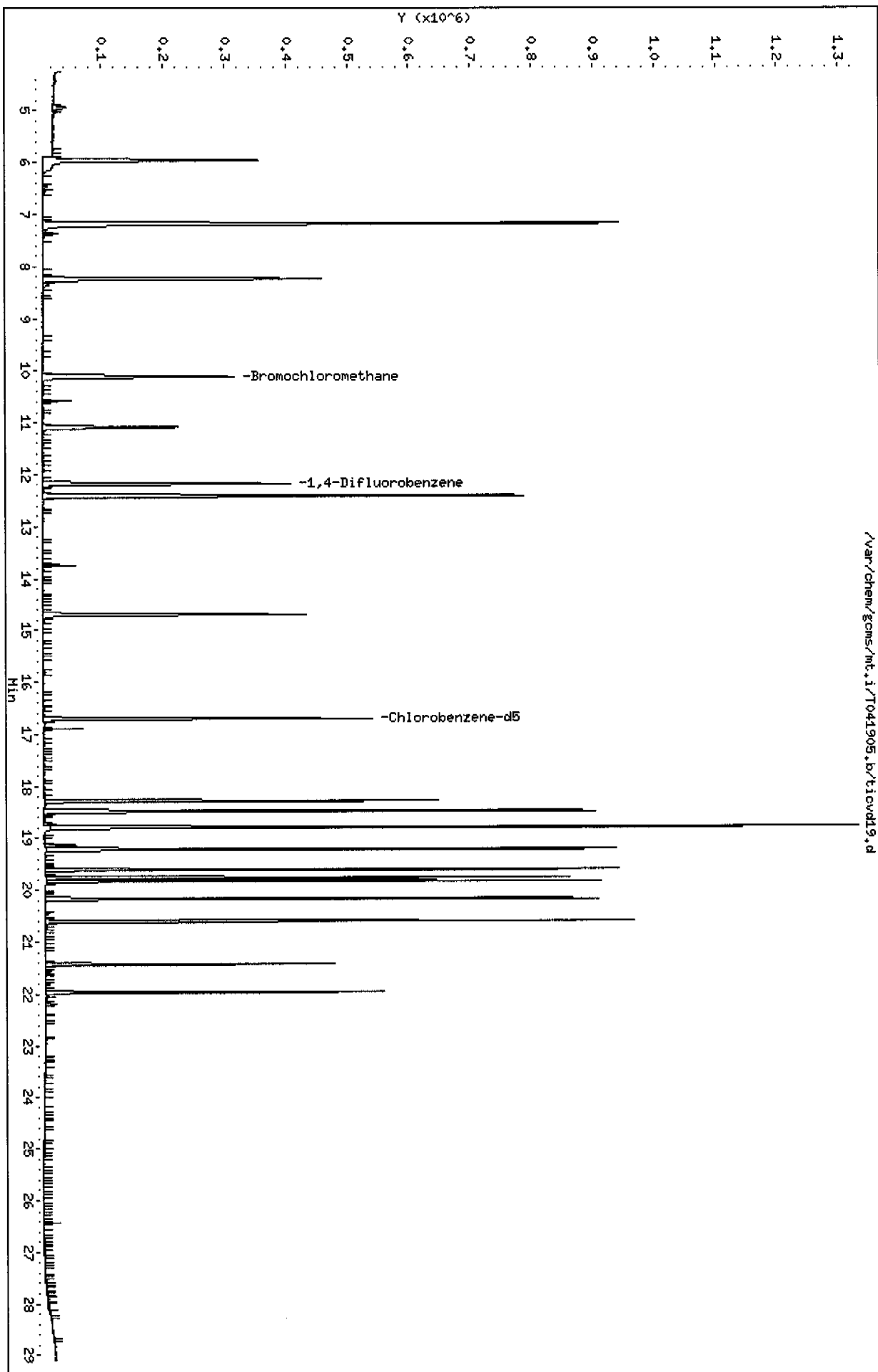
RECOVERY REPORT

Client Name: Client SDG: T041905
 Sample Matrix: GAS Fraction: OTHER
 Lab Smp Id: TICVD19 Client Smp ID: Second source
 Level: LOW Operator: 7126
 Data Type: MS DATA SampleType: LCS
 SpikeList File: xtra.spk Quant Type: ISTD
 Sublist File: ssxtra.sub
 Method File: /var/chem/gcms/mt.i/T041905.b/LA.m
 Misc Info: T041905,LA,,,100ML CX-1312

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
81 Napthalene	10.00	11.28	112.80	65-135
133 2,3-Dimethyl butan	10.00	9.312	93.12	65-135
134 a-Pinene	10.00	11.38	113.78	65-135
135 Camphene	10.00	11.32	113.17	65-135
136 b-Pinene	10.00	10.19	101.92	65-135
137 p-Cymene	10.00	10.32	103.19	65-135
138 d-Limonene	10.00	10.83	108.34	65-135
139 4-tert-Butyltoluen	10.00	10.97	109.71	65-135
140 Camphor	10.00	13.73	137.28*	65-135
141 sec-butylbenzene	10.00	10.47	104.66	65-135
142 n-butylbenzene	10.00	10.16	101.64	65-135

Data File: /var/chem/gcms/mt.i/T041905.b/ticwd19.d
Date : 19-APR-2005 14:35
Client ID: Second source
Sample Info: TICVD19,,3,,LCS
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



Analysis Date:	4/20/05	CCAL Batch/ Scan Name:	T042005	Instrument:	MT	ICAL Batch/ Scan Name:	T041505 I	Scanned 0

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd □
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Was the CCAL compared to the correct ICAL?		✓			✓
6. Was the 10 ppbv standard used for CCAL?		✓			✓
7. Is the %D ≤ 30% for all target analytes? Up to 4 analytes allowed over 30% but ≤ 40% D (Narrative req'd. for NJ samples).		✓		OK for 1014nj.sub, bridge.sub 1,2,3-trichloropropane - 35.8% MTBE 1-all & polars OK per client 3/4/10	✓
8. Have all peaks been auto identified? If not, list:		✓			✓
9. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailg; 4)RT shift; 5)wrong peak selected; 6)other	MS
10. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				MS
11. Is the first IS documented correctly on the log?		✓			✓
12. Is the ICAL date & time on the CCAL correct?		✓			✓
24. Elution order checked on isomeric pairs? • dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane • trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane • vinyl acetate / hexane • cis- and trans- isomers • ethyl benzene / m/p-xylene / o-xylene • 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene • 1,3-, 1,4-, and 1,2-dichlorobenzene		✓ ✓ ✓ ✓ ✓ ✓ ✓			✓ ✓ ✓ ✓ ✓ ✓ ✓
13. Did the LCS meet criteria (nonpolar target analytes 70-130%, with up to 2 nonpolar 60-140%; polar target analytes 60-140%, with up to 2 polars 45-155%)?		✓		TCE @ 136% OK -	✓
14. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?		✓		NCM & polars - 08-05244	✓
15. Does the CCAL folder contain complete data in the following order: data review checklist, a complete runlog, Entech report, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations and leak check report.		✓			✓

[illegible]

STL Knoxville
TO-14/15 RUN LOG

GCMS Analysis: TO-14/15

Analyst: HUT Preventive Maintenance Performed — Qtimes Batch: 46: 511152 Inst: MT
 Date: 4/20/05 System Date/Time ok (y/n): ✓ Target Batch: TO42005 G8TNA
 BFB Time: 1005 Surr/IS ID: V077 IS #1 Area: 139888 ICAL Batch: TO415051

Time	Lot No.	File ID	Can #	Comments	I/S	Pos	Vol* (ml)	Use	DUP
1005	tuno	TBFBD20	—		—	16	100	✓	—
1042	CCV	TCCVD203	CX-1313	4 rec.	—	14	100	N	—
1125	CCV	TCCVD203	CX-1307	OK & polar.	—	15	1	✓	—
1313	LCS	TLCSD20A	CX-1313	OK	—	14	1	✓	—
1400	B14	5442	12142		—	16	500	N	—
1444	↓	5442A	12142	INST BLK	—	16	500	✓	—
1601	↓	5443	1153	1,1,1-TCA=RL	—	16	500	N	—
1644	H5D070103	G7VE7	1802	43.63 1-att 20ml	IXL	1	21	✓	1
1727	↓	↓ E9	1927	34.31 20ml	IXL	2	22	✓	2
1810	H5D070105 H5D150779 4/20/05	G7VFA	04731	3.50 ELEVS 10ml	—	3	12	✓	ELEVS 3
1853	↓	↓ FC	12345	3.91	—	4	80	✓	4
1936	H5D130179	G79A9	92041	4.70 Evalw RR IXI 10ml	—	5	12	✓	RR 1115 ELEVS
2020	↓	↓ CC	03541	4.77 ELEVS	—	6	100	✓	RR 1115 ELEVS
2102	H5D010113	G7GAI	02306	58.50 to 14n; 10ml	IX2	7	22	N	RR 1115 ELEVS 1000ml 4/21/05
2145	↓	↓ A3	04392	7.90	—	8	250	✓	7
2228	H5D040122	G7K68	93045	8.99 to 14n; -1AC	—	9	180	✓	3
2311	↓	↓ 7E	1406	7.43 ELEVS 30	—	10	32	✓	ELEVS 9
2354	↓	↓ 75	12460	9.12 ELEVS 30	—	11	32	✓	10
0040	H5D120102	G757F	12646	1.42 bridge. Evalw RR	—	12	710	N	RR 150ml
0129	↓	↓ 76	12489	2.45	—	13	1225	✓	11
0214	H5D080253	G7INC	92030	1.38 to 14n;	—	14	500	✓	12
0258	↓	↓ NCD	92030	1.38	—	14	500	✓	Deep
0841	H5D120102	G757H	1539	2.48 924ml 50ml/min	—	1	1240	✓	924ml 13
0928	↓	↓ 7K	1537	2.23	—	2	1115	✓	14
not Run	↓	↓ 7L	—	—	—	3	500	—	—
0344	BLK chk	5443R	1153	—	—	16	500	—	—

* Entech programmed volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calculations.

Analyst: HUTDate: 4/21/05

MS027R11.DOC, 5/30/03

050420
STL-Knoxville
TO-14 Autosampler Log
'MT'

Sample	Volume	Position	Date	Time
BFB	102ml	16	4/20/2005	10:05:12 AM
CCV	101ml	14	4/20/2005	10:42:54 AM
LCS	102ml	15	4/20/2005	11:25:28 AM
LCSA	101ml	14	4/20/2005	1:13:25 PM
5442	502ml	16	4/20/2005	2:00:10 PM
5442A	500ml	16	4/20/2005	2:43:58 PM
5443	500ml	16	4/20/2005	4:01:31 PM
G7VE7	21ml	1	4/20/2005	4:44:32 PM
G7VE9	22ml	2	4/20/2005	5:27:35 PM
G7VFA	12ml	3	4/20/2005	6:10:40 PM
G7VFC	82ml	4	4/20/2005	6:53:45 PM
G79A9	12ml	5	4/20/2005	7:36:41 PM
G79CC	102ml	6	4/20/2005	8:20:00 PM
G7GA1	22ml	7	4/20/2005	9:02:53 PM
G7GA3	250ml	8	4/20/2005	9:45:48 PM
G7K68	181ml	9	4/20/2005	10:28:32 PM
G7K7E	32ml	10	4/20/2005	11:11:11 PM
G7K7J	32ml	11	4/20/2005	11:54:05 PM
G757F	711ml	12	4/21/2005	12:40:25 AM
G757G	1226ml	13	4/21/2005	1:29:53 AM
G71NC	502ml	14	4/21/2005	2:14:01 AM
G71NCD	502ml	14	4/21/2005	2:58:56 AM
5443R	502ml	16	4/21/2005	3:44:11 AM
G757H	924ml	1	4/21/2005	8:41:48 AM
G757K	1116ml	2	4/21/2005	9:28:55 AM

Data File: /chem/gcms/mt.i/T042005.b/bfbfd20.d

Date : 20-APR-2005 10:05

Client ID:

Instrument: mt.i

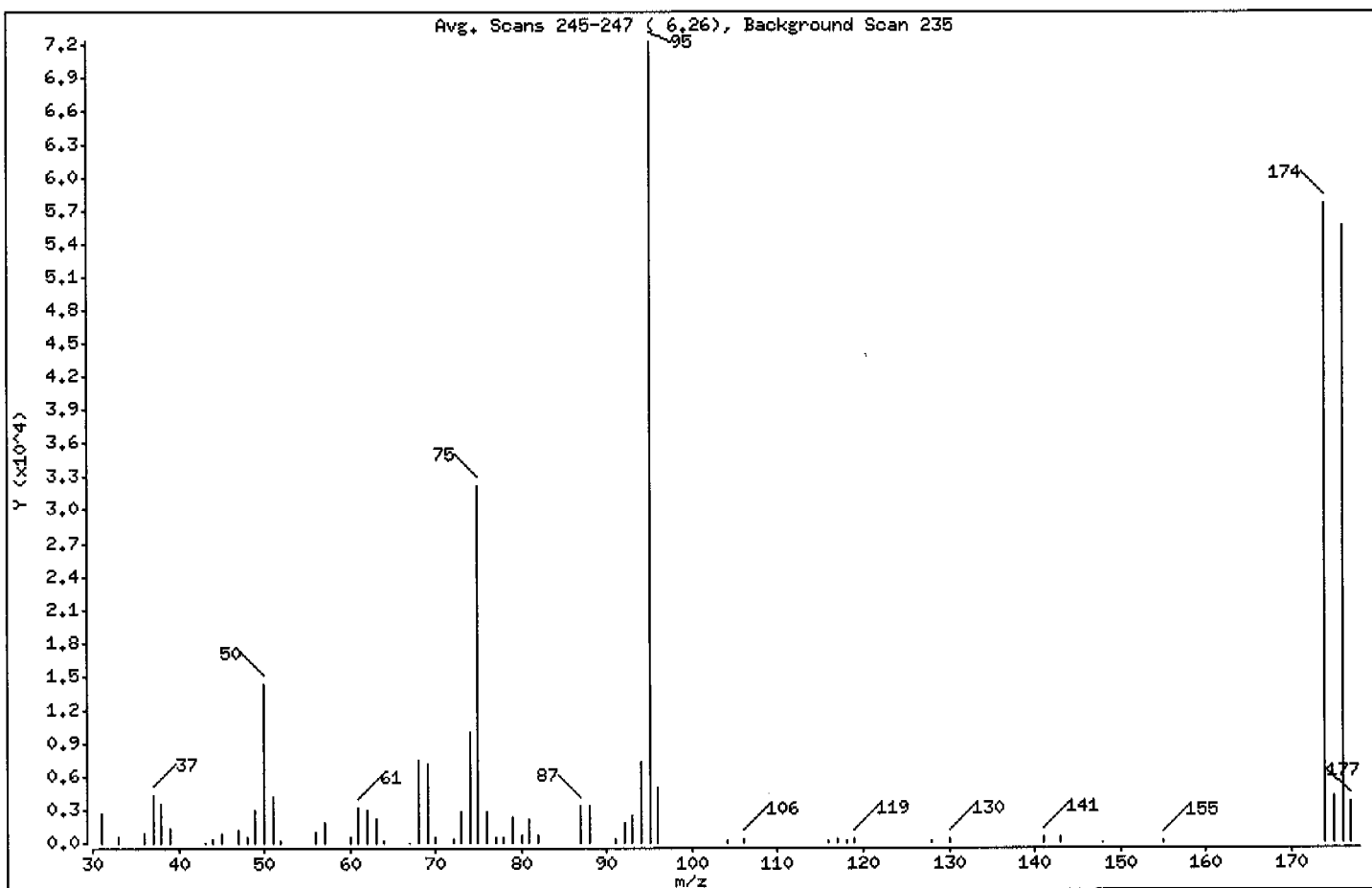
Sample Info: BFBTD20,1,3,,BFB

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.66
75	30.00 - 60.00% of mass 95	44.52
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.81
175	5.00 - 9.00% of mass 174	5.74 (7.19)
176	95.00 - 101.00% of mass 174	76.97 (96.44)
177	5.00 - 9.00% of mass 176	5.16 (6.70)

Data File: /chem/gcms/mt.i/T042005.b/tbfbd20.d

Date : 20-APR-2005 10:05

Client ID:

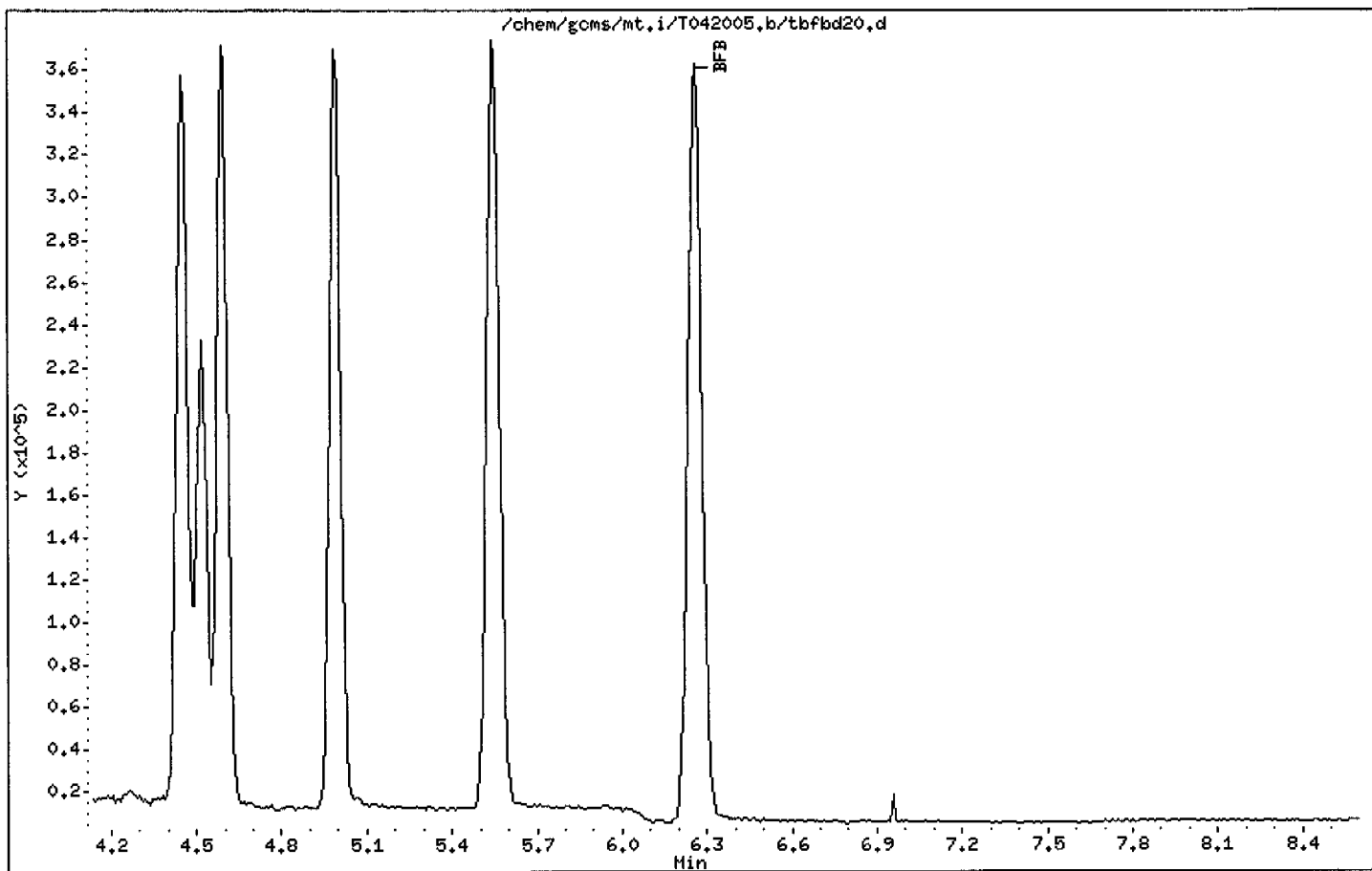
Instrument: mt.i

Sample Info: BFBTD20,1,3,,BFB

Operator: 7126

Column phase: DB-5

Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
Report Date: 20-Apr-2005 12:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mt.i Injection Date: 20-APR-2005 11:25
Lab File ID: tccvd203.d Init. Cal. Date(s): 15-APR-2005 15-APR-2005
Analysis Type: AIR Init. Cal. Times: 10:23 18:46
Lab Sample ID: CCVTD20 Quant Type: ISTD
Method: /chem/gcms/mt.i/T042005.b/LA.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 4 1,2-Dichloroethane-d4	0.20425	0.20147	0.000	1.36134	30.00000	Averaged
\$ 5 Toluene-d8	0.94300	0.87107	0.000	7.62771	30.00000	Averaged
\$ 6 4-Bromofluorobenzene	0.68653	0.69750	0.000	-1.59809	30.00000	Averaged
7 Chlorodifluoromethane	3.52859	3.61945	0.000	-2.57493	30.00000	Averaged
8 Dichlorodifluoromethane	4.41661	4.41311	0.000	0.07926	30.00000	Averaged
9 Chloromethane	0.56036	0.50148	0.000	10.50720	30.00000	Averaged
10 1,2-Dichlorotetrafluoroetha	2.72268	2.71505	0.000	0.28024	30.00000	Averaged
11 Vinyl Chloride	1.70077	1.64528	0.000	3.26231	30.00000	Averaged
12 Methanol	0.38858	0.26306	0.000	32.30349	30.00000	Averaged <- 1
13 1,3-Butadiene	1.22980	1.12297	0.000	8.68657	30.00000	Averaged
14 n-Butane	2.90715	2.87519	0.000	1.09924	30.00000	Averaged
15 Bromomethane	1.95630	1.92466	0.000	1.61769	30.00000	Averaged
16 Chloroethane	0.95642	0.89198	0.000	6.73844	30.00000	Averaged
17 Trichlorofluoromethane	3.98408	4.43866	0.000	-11.40991	30.00000	Averaged
18 Acrolein	0.27792	0.16516	0.000	40.57377	30.00000	Averaged <-
19 Acetonitrile	0.37546	0.22003	0.000	41.39577	30.00000	Averaged <-
20 Acetone	0.34708	0.22672	0.000	34.67961	30.00000	Averaged <- 2
21 Pentane	0.45752	0.40813	0.000	10.79347	30.00000	Averaged
22 Ethyl Ether	1.09376	0.62412	0.000	42.93792	30.00000	Averaged <-
23 1,1-Dichloroethene	1.61629	1.60931	0.000	0.43204	30.00000	Averaged
24 Acrylonitrile	0.54758	0.34930	0.000	36.21040	30.00000	Averaged <- 3
25 1,1,2-Trichlorotrifluoroeth	3.48032	3.68179	0.000	-5.78898	30.00000	Averaged
26 Methylene Chloride	1.55000	1.67701	0.000	-8.19430	30.00000	Averaged
27 3-Chloropropene	1.41035	1.38420	0.000	1.85400	30.00000	Averaged
28 Carbon Disulfide	5.51225	6.13239	0.000	-11.25019	30.00000	Averaged
29 trans-1,2-Dichloroethene	1.60567	1.62139	0.000	-0.97855	30.00000	Averaged
30 Methyl-t-Butyl Ether	1.67145	1.08799	0.000	34.90762	30.00000	Averaged <- 4
31 1,1-Dichloroethane	2.86717	3.00103	0.000	-4.66861	30.00000	Averaged
32 Vinyl Acetate	1.96991	1.24607	0.000	36.74481	30.00000	Averaged <-
33 2-Butanone	0.33614	0.21446	0.000	36.19764	30.00000	Averaged <-
34 Hexane	1.30866	1.39640	0.000	-6.70453	30.00000	Averaged
35 cis 1,2-Dichloroethene	1.61851	1.78036	0.000	-9.99980	30.00000	Averaged
36 Chloroform	3.11015	3.13166	0.000	-0.69156	30.00000	Averaged
37 1,1,1-Trichloroethane	2.71433	2.74524	0.000	-1.13896	30.00000	Averaged
38 1,2-Dichloroethane	0.50744	0.51899	0.000	-2.27554	30.00000	Averaged

Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Report Date: 20-Apr-2005 12:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mt.i Injection Date: 20-APR-2005 11:25
 Lab File ID: tccvd203.d Init. Cal. Date(s): 15-APR-2005 15-APR-2005
 Analysis Type: AIR Init. Cal. Times: 10:23 18:46
 Lab Sample ID: CCVTD20 Quant Type: ISTD
 Method: /chem/gcms/mt.i/T042005.b/LA.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
39 Benzene	1.06481	1.03809	0.000	2.50851	30.00000	Averaged
40 1-Butanol	0.11366	0.09236	0.000	18.74271	30.00000	Averaged
41 Cyclohexane	0.18359	0.19261	0.000	-4.91553	30.00000	Averaged
42 Carbon Tetrachloride	2.93442	3.38160	0.000	-15.23924	30.00000	Averaged
43 Heptane	0.82991	0.97238	0.000	-17.16770	30.00000	Averaged
44 1,2-Dichloropropane	0.39864	0.36318	0.000	8.89414	30.00000	Averaged
45 Trichloroethene	0.52529	0.57452	0.000	-9.37276	30.00000	Averaged
46 Dibromomethane	0.52535	0.60684	0.000	-15.51077	30.00000	Averaged
47 Bromodichloromethane	0.85617	1.00422	0.000	-17.29178	30.00000	Averaged
48 4-Methyl-2-pentanone	0.48632	0.36411	0.000	25.12922	30.00000	Averaged
49 cis-1,3-Dichloropropene	0.73483	0.82752	0.000	-12.61380	30.00000	Averaged
50 trans-1,3-Dichloropropene	0.49783	0.49856	0.000	-0.14588	30.00000	Averaged
51 Toluene	1.19901	1.03556	0.000	13.63187	30.00000	Averaged
52 1,1,2-Trichloroethane	0.48294	0.46847	0.000	2.99595	30.00000	Averaged
53 2-Hexanone	0.26000	0.19350	0.000	25.57594	30.00000	Averaged
54 Octane	0.42153	0.47303	0.000	-12.21697	30.00000	Averaged
55 Dibromochloromethane	0.93608	1.06511	0.000	-13.78408	30.00000	Averaged
56 1,2-Dibromoethane	0.79744	0.74466	0.000	6.61906	30.00000	Averaged
57 Tetrachloroethene	0.51526	0.52925	0.000	-2.71577	30.00000	Averaged
58 Chlorobenzene	1.00018	0.92065	0.000	7.95107	30.00000	Averaged
59 Ethylbenzene	1.44591	1.18206	0.000	18.24818	30.00000	Averaged
60 m-Xylene (For p-)	1.08879	0.88301	0.000	18.89984	30.00000	Averaged
61 Bromoform	0.83546	0.97204	0.000	-16.34737	30.00000	Averaged
62 Nonane	0.85456	0.79427	0.000	7.05510	30.00000	Averaged
63 Styrene	0.72793	0.67010	0.000	7.94479	30.00000	Averaged
64 o-Xylene	1.09817	0.85733	0.000	21.93116	30.00000	Averaged
65 1,1,2,2-Tetrachloroethane	1.03321	0.90142	0.000	12.75536	30.00000	Averaged
66 1,2,3-Trichloropropane	0.15234	0.09776	0.000	35.82875	30.00000	Averaged <-
67 Cumene	1.47871	1.32171	0.000	10.61739	30.00000	Averaged
68 n-Propylbenzene	0.41108	0.38742	0.000	5.75579	30.00000	Averaged
69 4-Ethyltoluene	1.53145	1.38839	0.000	9.34132	30.00000	Averaged
70 1,3,5-Trimethylbenzene	0.57005	0.46618	0.000	18.22183	30.00000	Averaged
71 Alpha-Methylstyrene	0.60428	0.59761	0.000	1.10380	30.00000	Averaged
72 Decane	1.00090	0.89688	0.000	10.39286	30.00000	Averaged
73 1,2,4-Trimethylbenzene	1.19911	0.97020	0.000	19.09029	30.00000	Averaged

Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Report Date: 20-Apr-2005 12:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mt.i Injection Date: 20-APR-2005 11:25
 Lab File ID: tccvd203.d Init. Cal. Date(s): 15-APR-2005 15-APR-2005
 Analysis Type: AIR Init. Cal. Times: 10:23 18:46
 Lab Sample ID: CCVTD20 Quant Type: ISTD
 Method: /chem/gcms/mt.i/T042005.b/LA.m

COMPOUND	_____		MIN		MAX		CURVE TYPE
	RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT		
=====	=====	=====	=====	=====	=====	=====	
74 1,3-Dichlorobenzene	0.90688	0.83727	0.000	7.67569	30.00000	Averaged	
75 Benzyl Chloride	1.05978	0.87148	0.000	17.76754	30.00000	Averaged	
76 1,4-Dichlorobenzene	0.91238	0.83103	0.000	8.91701	30.00000	Averaged	
77 1,2-Dichlorobenzene	0.86559	0.78362	0.000	9.47021	30.00000	Averaged	
78 Undecane	1.00320	0.95786	0.000	4.51906	30.00000	Averaged	
79 Dodecane	0.78549	0.81115	0.000	-3.26718	30.00000	Averaged	
80 1,2,4-Trichlorobenzene	0.54050	0.46754	0.000	13.50000	30.00000	Averaged	
81 Napthalene	1.21063	1.04325	0.000	13.82595	30.00000	Averaged	
82 Hexachlorobutadiene	0.43944	0.43298	0.000	1.47003	30.00000	Averaged	
133 2,3-Dimethyl butane	3.73057	3.77980	0.000	-1.31963	30.00000	Averaged	
134 a-Pinene	0.94976	0.91413	0.000	3.75165	30.00000	Averaged	
135 Camphene	0.61844	0.56614	0.000	8.45752	30.00000	Averaged	
136 b-Pinene	0.98481	0.70447	0.000	28.46676	30.00000	Averaged	
137 p-Cymene	1.39365	1.20485	0.000	13.54728	30.00000	Averaged	
138 d-Limonene	0.58793	0.50591	0.000	13.95103	30.00000	Averaged	
139 4-tert-Butyltoluene	1.16264	1.04505	0.000	10.11363	30.00000	Averaged	
140 Camphor	0.23576	0.04230	0.000	82.05658	30.00000	Averaged	
141 sec-butylbenzene	1.74471	1.48880	0.000	14.66744	30.00000	Averaged	
142 n-butylbenzene	1.38447	1.19792	0.000	13.47410	30.00000	Averaged	
143 Vinyl Bromide	3.24523	3.35024	0.000	-3.23581	30.00000	Averaged	
144 tert-butanol	2.49336	2.36120	0.000	5.30017	30.00000	Averaged	
145 2,2,4-trimethylpentane	1.94739	2.13411	0.000	-9.58854	30.00000	Averaged	
146 2-chlorotoluene	0.37670	0.33365	0.000	11.42658	30.00000	Averaged	

<- NT

Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Report Date: 20-Apr-2005 12:41

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Lab Smp Id: CCVTD20
 Inj Date : 20-APR-2005 11:25 /
 Operator : 7126 Inst ID: mt.i
 Smp Info : CCVTD20,,2,3,
 Misc Info : T042005,LA,,,,100ML CX-1307
 Comment :
 Method : /chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 20-Apr-2005 12:41 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 15 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb (v/v))	(ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.111	10.111	(1.000)	139888	10.0000	
* 2 1,4-Difluorobenzene	114	12.185	12.185	(1.000)	473126	10.0000	
* 3 Chlorobenzene-d5	117	16.714	16.714	(1.000)	435347	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.092	11.092	(0.910)	95322	10.0000	9.864
\$ 5 Toluene-d8	98	14.701	14.701	(0.880)	379216	10.0000	9.237
\$ 6 4-Bromofluorobenzene	95	18.284	18.284	(1.094)	303656	10.0000	10.16
7 Chlorodifluoromethane	51	4.402	4.402	(0.435)	506319	10.0000	10.26
8 Dichlorodifluoromethane	85	4.481	4.481	(0.443)	617343	10.0000	9.992
9 Chloromethane	52	4.706	4.706	(0.465)	70151	10.0000	8.949
10 1,2-Dichlorotetrafluoroethane	135	4.723	4.723	(0.467)	379804	10.0000	9.972
11 Vinyl Chloride	62	4.923	4.923	(0.487)	230155	10.0000	9.674
12 Methanol	31	4.906	4.906	(0.485)	147194	40.0000	27.08
13 1,3-Butadiene	54	5.036	5.036	(0.498)	157090	10.0000	9.131
14 n-Butane	43	5.036	5.036	(0.498)	402205	10.0000	9.890
15 Bromomethane	94	5.426	5.426	(0.537)	269237	10.0000	9.838
16 Chloroethane	64	5.600	5.600	(0.554)	124777	10.0000	9.326
17 Trichlorofluoromethane	101	6.268	6.268	(0.620)	620917	10.0000	11.14
18 Acrolein	56	6.285	6.285	(0.622)	46206	20.0000	11.88
19 Acetonitrile	40	6.363	6.363	(0.629)	61560	20.0000	11.72
20 Acetone	58	6.424	6.424	(0.635)	63430	20.0000	13.06
21 Pentane	57	6.528	6.528	(0.646)	57093	10.0000	8.921

Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Report Date: 20-Apr-2005 12:41

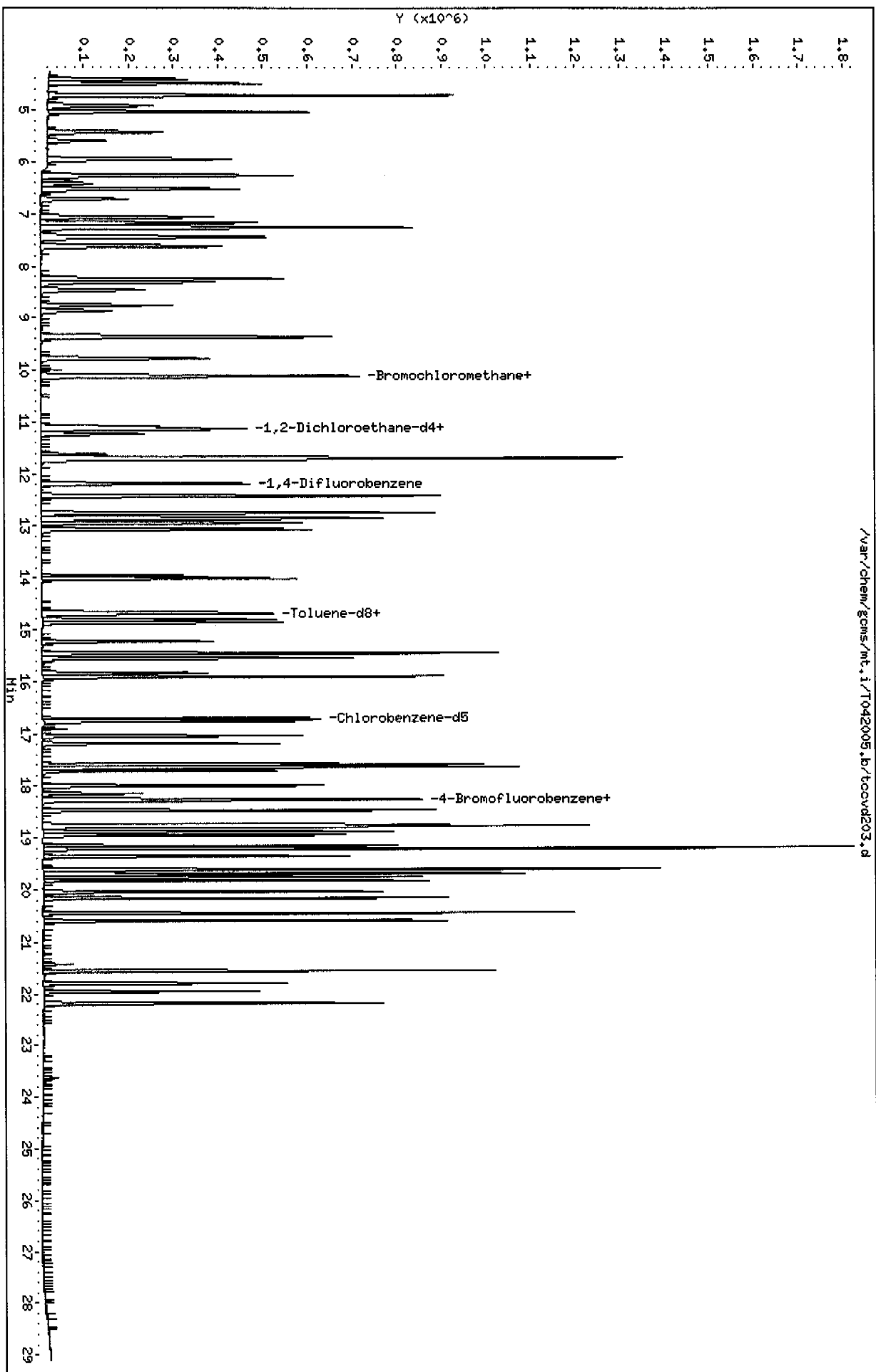
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.719	6.719	(0.664)	174614	20.0000	11.41
23 1,1-Dichloroethene	96	7.057	7.057	(0.698)	225124	10.0000	9.957
24 Acrylonitrile	53	7.179	7.179	(0.710)	97726	20.0000	12.76
25 1,1,2-Trichlorotrifluoroethane	101	7.266	7.266	(0.719)	515039	10.0000	10.58
26 Methylene Chloride	84	7.430	7.430	(0.735)	234593	10.0000	10.82
27 3-Chloropropene	39	7.456	7.456	(0.737)	193634	10.0000	9.815
28 Carbon Disulfide	76	7.621	7.621	(0.754)	857850	10.0000	11.12
29 trans-1,2-Dichloroethene	96	8.307	8.307	(0.822)	226813	10.0000	10.10
30 Methyl-t-Butyl Ether	73	8.463	8.463	(0.837)	304393	20.0000	13.02
31 1,1-Dichloroethane	63	8.758	8.758	(0.866)	419809	10.0000	10.47
32 Vinyl Acetate	43	8.871	8.871	(0.877)	348621	20.0000	12.65
33 2-Butanone	72	9.348	9.348	(0.924)	60001	20.0000	12.76
34 Hexane	56	9.374	9.374	(0.927)	195340	10.0000	10.67
35 cis 1,2-Dichloroethene	96	9.773	9.773	(0.967)	249051	10.0000	11.00
36 Chloroform	83	10.120	10.120	(1.001)	438082	10.0000	10.07
37 1,1,1-Trichloroethane	97	11.135	11.135	(1.101)	384027	10.0000	10.11
38 1,2-Dichloroethane	62	11.231	11.231	(0.922)	245545	10.0000	10.23
39 Benzene	78	11.690	11.690	(0.959)	491149	10.0000	9.749
40 1-Butanol	31	11.630	11.630	(0.954)	87396	20.0000	16.25
41 Cyclohexane	69	11.699	11.699	(0.960)	91128	10.0000	10.49
42 Carbon Tetrachloride	117	11.716	11.716	(1.159)	473047	10.0000	11.52
43 Heptane	43	12.740	12.740	(1.046)	460060	10.0000	11.72
44 1,2-Dichloropropane	63	12.827	12.827	(1.053)	171830	10.0000	9.110
45 Trichloroethene	130	12.853	12.853	(1.055)	271822	10.0000	10.94
46 Dibromomethane	93	12.931	12.931	(1.061)	287111	10.0000	11.55
47 Bromodichloromethane	83	13.061	13.061	(1.072)	475123	10.0000	11.73
48 4-Methyl-2-pentanone	43	13.955	13.955	(1.145)	344543	20.0000	14.97
49 cis-1,3-Dichloropropene	75	14.007	14.007	(1.150)	391519	10.0000	11.26
50 trans-1,3-Dichloropropene	75	14.666	14.666	(0.877)	217044	10.0000	10.01
51 Toluene	91	14.805	14.805	(0.886)	450827	10.0000	8.637
52 1,1,2-Trichloroethane	97	14.866	14.866	(0.889)	203948	10.0000	9.700
53 2-Hexanone	58	15.230	15.230	(0.911)	168479	20.0000	14.88
54 Octane	85	15.456	15.456	(0.925)	205932	10.0000	11.22
55 Dibromochloromethane	129	15.551	15.551	(0.930)	463694	10.0000	11.38
56 1,2-Dibromoethane	107	15.838	15.838	(0.948)	324185	10.0000	9.338
57 Tetrachloroethene	129	15.907	15.907	(0.952)	230408	10.0000	10.27
58 Chlorobenzene	112	16.757	16.757	(1.003)	400803	10.0000	9.205
59 Ethylbenzene	91	17.035	17.035	(1.019)	514607	10.0000	8.175
60 m-Xylene (For p-)	91	17.191	17.191	(1.029)	384416	10.0000	8.110
61 Bromoform	173	17.634	17.634	(1.055)	423174	10.0000	11.63
62 Nonane	57	17.590	17.590	(1.052)	345784	10.0000	9.294
63 Styrene	104	17.642	17.642	(1.056)	291725	10.0000	9.206
64 o-Xylene	91	17.712	17.712	(1.060)	373237	10.0000	7.807
65 1,1,2,2-Tetrachloroethane	83	17.998	17.998	(1.077)	392429	10.0000	8.724
66 1,2,3-Trichloropropane	110	18.154	18.154	(1.086)	42559	10.0000	6.417
67 Cumene	105	18.258	18.258	(1.092)	575400	10.0000	8.938
68 n-Propylbenzene	120	18.753	18.753	(1.122)	168663	10.0000	9.424

Data File: /var/chem/gcms/mt.i/T042005.b/tccvd203.d
 Report Date: 20-Apr-2005 12:41

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.883	18.883	(1.130)	604433	10.0000	9.066
70 1,3,5-Trimethylbenzene	120	18.952	18.952	(1.134)	202949	10.0000	8.178
71 Alpha-Methylstyrene	118	19.161	19.161	(1.146)	260166	10.0000	9.890
72 Decane	57	19.213	19.213	(1.149)	390455	10.0000	8.961
73 1,2,4-Trimethylbenzene	105	19.360	19.360	(1.158)	422372	10.0000	8.091
74 1,3-Dichlorobenzene	146	19.620	19.620	(1.174)	364504	10.0000	9.232
75 Benzyl Chloride	91	19.690	19.690	(1.178)	379396	10.0000	8.223
76 1,4-Dichlorobenzene	146	19.698	19.698	(1.179)	361784	10.0000	9.108
77 1,2-Dichlorobenzene	146	20.046	20.046	(1.199)	341145	10.0000	9.053
78 Undecane	57	20.462	20.462	(1.224)	417002	10.0000	9.548
79 Dodecane	57	21.564	21.564	(1.290)	353131	10.0000	10.33
80 1,2,4-Trichlorobenzene	180	21.798	21.798	(1.304)	203540	10.0000	8.650
81 Napthalene	128	21.963	21.963	(1.314)	454176	10.0000	8.617
82 Hexachlorobutadiene	225	22.189	22.189	(1.328)	188498	10.0000	9.853
133 2,3-Dimethyl butane	43	8.246	8.246	(0.816)	528750	10.0000	10.13
134 a-Pinene	93	18.475	18.475	(1.105)	397963	10.0000	9.625
135 Camphene	93	18.779	18.779	(1.124)	246466	10.0000	9.154
136 b-Pinene	93	19.213	19.213	(1.149)	306687	10.0000	7.153
137 p-Cymene	119	19.759	19.759	(1.182)	524528	10.0000	8.645
138 d-Limonene	68	19.829	19.829	(1.186)	220245	10.0000	8.605
139 4-tert-Butyltoluene	133	20.601	20.601	(1.233)	454959	10.0000	8.989
140 Camphor	95	21.434	21.434	(1.282)	18416	10.0000	1.794
141 sec-butylbenzene	105	19.603	19.603	(1.173)	648146	10.0000	8.533
142 n-butylbenzene	91	20.167	20.167	(1.207)	521512	10.0000	8.652
143 Vinyl Bromide	106	5.955	5.955	(0.589)	468659	10.0000	10.32
144 tert-butanol	59	7.170	7.170	(0.709)	660610	20.0000	18.94
145 2,2,4-trimethylpentane	57	12.411	12.411	(1.018)	1009705	10.0000	10.96
146 2-chlorotoluene	126	18.796	18.796	(1.125)	145255	10.0000	8.857

Data File: /var/chem/gcms/mt.i/T042005.b/tocv0203.d
Date : 20-APR-2005 11:25
Client ID:
Sample Info: CCVT020,,2,3,
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



4/20/2005 3:14:46 PM

Leak Check for C:\Smart\T042005.SEQ

Report File: C:\Smart\T042005.LCR

Leak Check Method: Evacuation

Pressurize/Evacuate time(sec) 30

Equilibration time(sec) 30

Maintenance time(sec) 30

Sample

Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	---	---	0.5	0.5	0.00
1	2	---	---	14.1	14.1	0.00
1	3	---	---	0.5	0.5	0.00
1	4	---	---	0.4	0.5	0.20
1	5	---	---	0.3	0.3	0.00
1	6	---	---	0.3	0.3	0.00
1	7	---	---	0.4	0.5	0.20
1	8	---	---	14.2	14.3	0.20
1	9	---	---	0.4	0.4	0.00
1	10	---	---	0.4	0.5	0.20
1	11	---	---	0.3	0.3	0.00
1	12	---	---	0.3	0.3	0.00
1	13	---	---	0.5	0.5	0.00
1	14	---	---	0.4	0.4	0.00

- Retest OK

4/20/05

(H)

4/20/2005 3:19:01 PM
Leak Check for C:\Smart\T042005.SEQ
Report File: C:\Smart\T042005.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 30
Equilibration time(sec) 30
Maintenance time(sec) 30

Sample

Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	2	---	---	5.1	8.5	6.80
1	8	---	---	0.4	0.4	0.00

- Retest OK

4/20/05 H

4/20/2005 3:23:21 PM
Leak Check for C:\Smart\T042005.SEQ
Report File: C:\Smart\T042005.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 30
Equilibration time(sec) 30
Maintanance time(sec) 30

Sample

Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	2	--	--	0.7	1.0	0.60

4/21/2005 7:52:50 AM
Leak Check for C:\Smart\T042005.SEQ
Report File: C:\Smart\T042005.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 30
Equilibration time(sec) 30
Maintanance time(sec) 30

Sample							
Inlet	Auto1	Auto2	Auto3	Start	End		Rate(psi/min)
1	1	---	---	0.6	0.6	0.00	
1	2	---	---	0.4	0.4	0.00	
1	3	---	---	0.4	0.4	0.00	

Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 6

Analysis Date:	4/21/05	Instrument:	ME	ICAL Batch/Scan Name:	6042105 I	Scanned:	

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Is the second source analysis of a reference standard within limits? (65-135% R; 20-180% for benzyl chloride)		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
6. Were at least 5 levels of each compound analyzed?		✓			✓
7. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓		1 butanol, naphthalene < 40%	✓
8. Have all peaks been auto identified? If not, list:		✓		HCBP in level 8	✓
9. If curves were used, is correlation coefficient >0.990?		✓			✓
10. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves?		✓			✓
11. For linear or quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.		✓			✓
12. For linear or quadratic: origin NOT included or forced?		✓			✓
13. Is the "Y" intercept less than the RL for each curve?		✓			✓
14. RT for each IS ±20 sec avg. RT?		✓			✓
15. Area for each IS ± 40% avg. area?		✓			✓
16. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
17. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
18. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?		✓			✓
19. Was ICAL summary form processed using correct methods and files?		✓			✓
20. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
21. Elution order checked on isomeric pairs? • dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane • trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane • vinyl acetate / hexane • cis- and trans- isomers • ethyl benzene / m/p-xylene / o-xylene • 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene • 1,3-, 1,4-, and 1,2-dichlorobenzene		✓ ✓ ✓ ✓ ✓ ✓ ✓			✓ ✓ ✓ ✓ ✓ ✓ ✓
22. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
23. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, Entech report, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations] in increasing amount order.		✓			✓

Analyst:	Date: 4-22-05	2nd Level Reviewer:	Date: 4/25/05
Comments: RL for naphthalene & dodecane (not be <0.5)	Comments: 30 ppbv level 5 of removed for DCDFM, not CDFM.		
Dropped high point for dodecane & dichlorodifluoromethane			
Changed m/p xylene to wt. linear 1/Am			

STL Knoxville TO-14/15 RUN LOG

GCMS Analysis: TO-14/15

Inst: ME

Analyst: JW Preventive Maintenance Performed ☒ Qtimes Batch: 4/ADate: 4.21.05 System Date/Time ok (y/n): ☒ Target Batch: E0421051BFB Time: 1323 Surr/IS ID: V077 IS #1 Area: 372468 ICAL Batch: E0421051

Time	Seq #	Lot No.	File ID	Can #	Pos	Vol* (mL)	DF	Comments
1323	1	BFB	EBFBP21I	-	16	100	T	(use) TO1412 method on
1403	2	IC-6 0.2	EICD21G	CX-1314	14	100		Entech & GC (HP) for
1512	3	-7 0.5	7	7	7	250		all runs
1551	4	-1 1.0	1	7	7	500		
1626	5	-8 2.5	8	CX-1307	STD	24		
1702	6	-2 5.0	2			50		
1739	7	-3 10	3			100		
1815	8	-4 15	4			150		
1853	9	-5 30	5	7	7	300		
1932	10	BK	EBKPD21	-	16	500		
2008	11	ICV	EICVD21	CX-1309	11	100	7	h sur #1 b xtra
2044	12	LCS	ELCSD21	CX-1313	10	100	7	h sur #1 high polars - low ccl4
2121	13	ICV R	EICVD21R	CX-1307	11	100	7	h sur #1 not used
2157	14	ICV X	EICVD21X	CX-1312	12	100	7	h sur #1 x-tras ok
2236	15	BK	EBKPD21A	-	16	500	-	
2315	16		5444	04390	8	↓	-	
2354	17		5444A	04390	8	↓	-	

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calculations.

Analyst: JW Date: 4.22.05

MS027R12.DOC, 3/3/05

050421
STL-Knoxville
TO-14 Autosampler Log
'ME'

Sample	Volume	Position	Date	Time
BFB	102ml /	16 /	4/21/200	1:23:18 PM /
IC6	102ml /	14 /	4/21/200	2:03:10 PM /
IC7	251ml /	14 /	4/21/200	3:12:10 PM /
IC1	501ml /	14 /	4/21/200	3:51:20 PM /
IC8	24ml /	STD /	4/21/200	4:26:55 PM /
IC2	49ml /	STD /	4/21/200	5:02:46 PM /
IC3	100ml /	STD /	4/21/200	5:39:07 PM /
IC4	150ml /	STD /	4/21/200	6:15:44 PM /
IC5	300ml /	STD /	4/21/200	6:53:19 PM /
BLK	500ml /	16 /	4/21/200	7:32:03 PM /
ICV N	102ml /	11 /	4/21/200	8:08:25 PM /
LCS	102ml /	10 /	4/21/200	8:44:38 PM /
ICVR	101ml /	11 /	4/21/200	9:21:01 PM /
ICVX	101ml /	12 /	4/21/200	9:57:14 PM /
BLK	502ml /	16 /	4/21/200	10:36:05 PM /
5444	502ml /	8 /	4/21/200	11:15:07 PM /
5444A	500ml /	8 /	4/21/200	11:54:11 PM /

WY
4/26/05
4/25/05

Data File: /chem/gcms/me.i/E0421051.b/ebfbd21i.d

Date : 21-APR-2005 13:23

Client ID:

Instrument: me.i

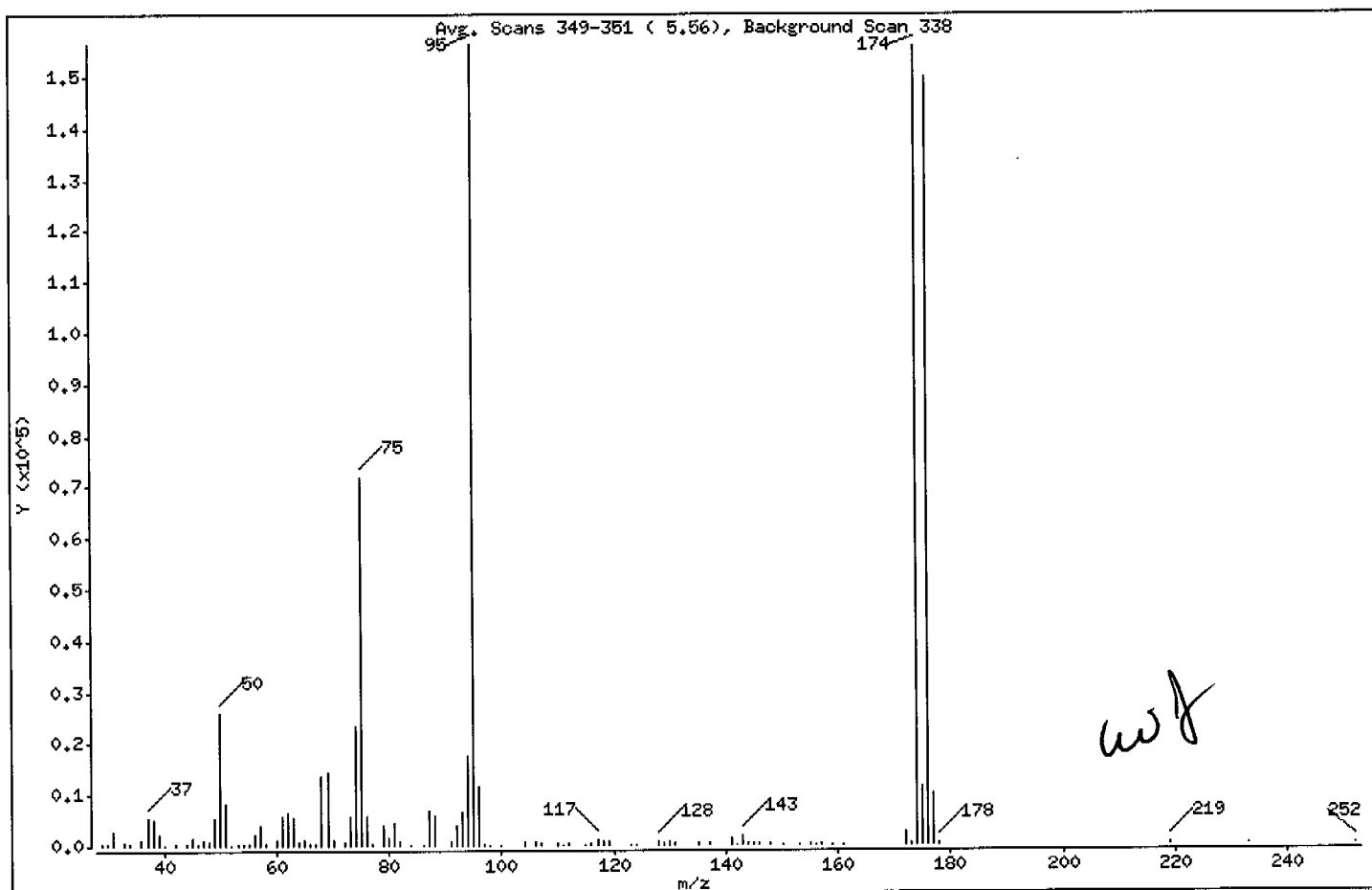
Sample Info: BFB,,3,,BFB

Operator: 60487

Column phase: DB-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.59
75	30.00 - 60.00% of mass 95	45.97
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.24 (0.24)
174	50.00 - 100.00% of mass 95	99.69
175	5.00 - 9.00% of mass 174	7.37 (7.39)
176	95.00 - 101.00% of mass 174	95.84 (96.13)
177	5.00 - 9.00% of mass 176	6.42 (6.70)

Data File: /chem/gcms/me.i/E0421051.b/ebfbd21i.d

Date : 21-APR-2005 13:23

Client ID:

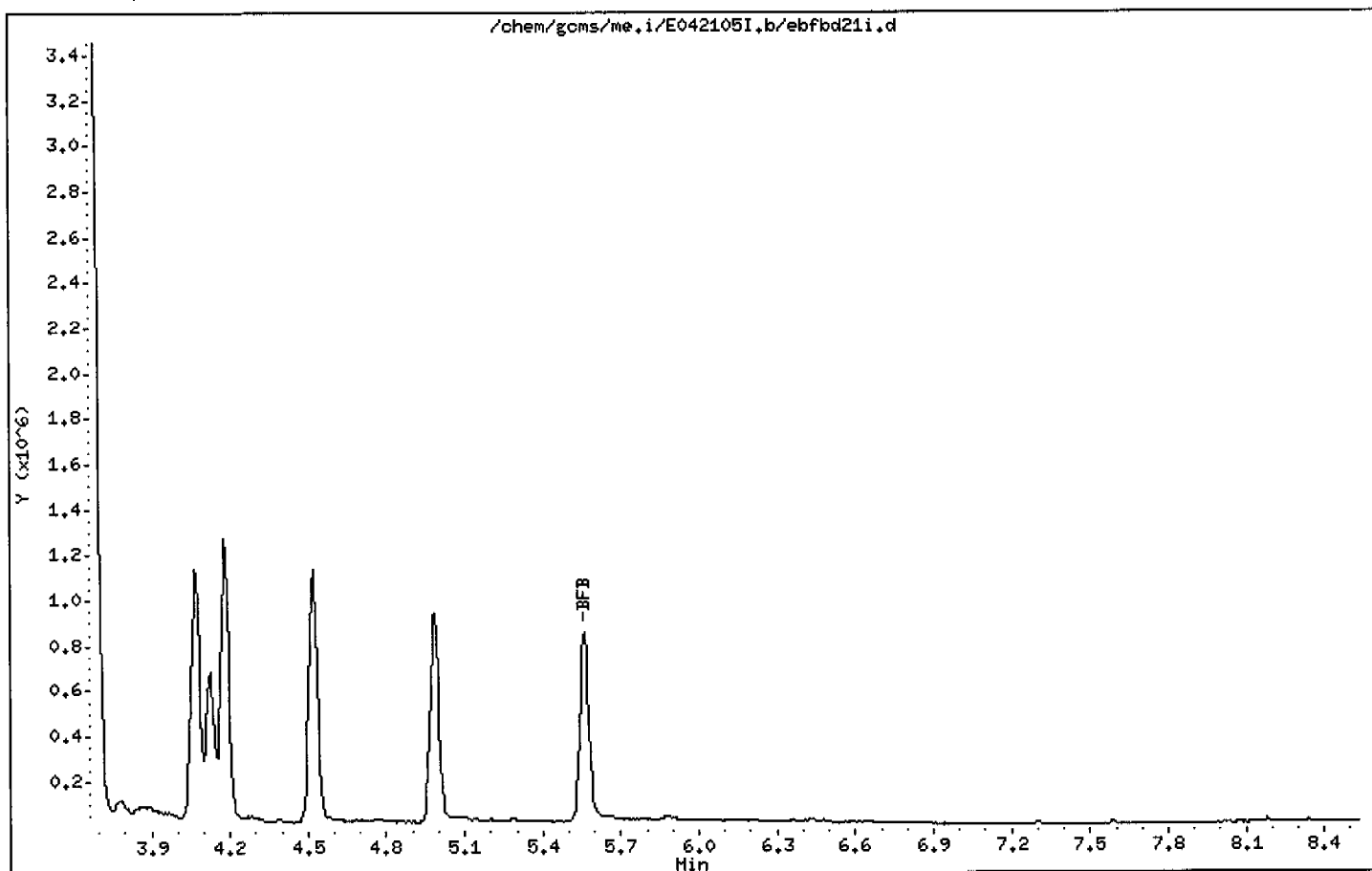
Instrument: me.i

Sample Info: BFB,,3,,BFB

Operator: 60487

Column phase: DB-5

Column diameter: 0.32



Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Revised
wof
4/25/05

```

Start Cal Date      : 21-APR-2005 14:03
End Cal Date       : 21-APR-2005 18:53
Quant Method       : ISTD
Target Version     : 3.50
Integrator         : HP RTE
Method file        : /var/chem/gcms/me.i/E042105I.b/LA.m
Cal Date           : 22-Apr-2005 15:50 wilead

```

Calibration File Names:

Level 1:	/var/chem/gcms/me.i/E042105I.b/eicd211.d
Level 2:	/var/chem/gcms/me.i/E042105I.b/eicd212.d
Level 3:	/chem/gcms/me.i/E042105I.b/eicd213.d
Level 4:	/chem/gcms/me.i/E042105I.b/eicd214.d
Level 5:	/chem/gcms/me.i/E042105I.b/eicd215.d
Level 6:	/var/chem/gcms/me.i/E042105I.b/eicd216.d
Level 7:	/var/chem/gcms/me.i/E042105I.b/eicd217.d
Level 8:	/var/chem/gcms/me.i/E042105I.b/eicd218.d

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients		RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	0.5000	2									
	Level 7	Level 8									
7 Chlorodifluoromethane	4.68343	4.57593	5.10180	5.59198	3.79881	4.57516	AVRG		4.84943		12.44857
	4.81077	5.65757									
8 Dichlorodifluoromethane	5.71764	5.72415	6.42243	7.18439	++++	5.69791	AVRG		6.21031		10.35493
	5.77152	6.95413									
9 Chloromethane	0.58630	0.47818	0.47306	0.49602	0.34203	0.71667	AVRG		0.54647		22.16708
	0.62632	0.65321									

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E0421051.b/LA.m
 Cal Date : 22-Apr-2005 15:50 willed

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	0.5000	2								
	Level 7	Level 8								
10 1,2-Dichlorotetrafluoroethane	3.99060	3.65771	3.68309	3.93831	2.70487	4.39615	AVRG		3.90357	15.04868
	4.24700	4.61087								
12 Methanol	++++	0.17040	0.19867	0.21572	0.14035	++++	AVRG		0.18897	17.67933
	++++	0.21973								
11 Vinyl Chloride	1.65961	1.53248	1.56032	1.67556	1.16089	1.70232	AVRG		1.61947	13.70416
	1.72933	1.93528								
13 1,3-Butadiene	1.26813	1.18474	1.21893	1.30508	0.88550	1.44266	AVRG		1.27077	15.02740
	1.34405	1.51703								
14 n-Butane	3.18127	2.72396	2.69222	2.77124	1.84054	3.55360	AVRG		2.96484	19.56531
	3.45008	3.50579								
15 Bromomethane	1.81904	1.69656	1.73659	1.85047	1.27303	1.89351	AVRG		1.81646	15.17875
	2.05785	2.20465								
16 Chloroethane	0.79655	0.74686	0.76252	0.81248	0.56571	0.89488	AVRG		0.79918	14.52500
	0.86817	0.94625								

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date	:	21-APR-2005	14:03
End Cal Date	:	21-APR-2005	18:53
Quant Method	:	ISTD	
Target Version	:	3.50	
Integrator	:	HP RTE	
Method file	:	/var/chem/gcms/me.i/E042105I.b/LA.m	
Cal Date	:	22-Apr-2005	15:50 wileds

[illegible]

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
End Cal Date : 21-APR-2005 18:53
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
Cal Date : 22-Apr-2005 15:50 wilese

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	0.5000	2								
	Level 7	Level 8								
35 cis 1,2-Dichloroethene	1.94848	1.54936	1.66674	1.81821	1.35611	1.96024	AVRG		1.76545	12.90210
	2.01681	1.80765								
36 Chloroform	4.63289	3.13287	3.21130	3.39624	3.50064	3.95305	AVRG		3.71007	13.97027
	4.20213	3.65139								
37 1,1,1-Trichloroethane	4.23847	2.70102	2.87731	4.56600	3.55840	4.28308	AVRG		3.82806	18.54995
	4.40747	3.99274								
38 1,2-Dichloroethane	0.85523	0.41750	0.43434	0.74637	0.74136	0.83728	AVRG		0.69774	26.07584
	0.88299	0.66690								
40 1-Butanol	0.06863	0.10875	0.04060	0.13929	0.10721	0.09949	AVRG		0.09581	31.10922
	0.09200	0.11051								
39 Benzene	1.45846	1.08663	0.84298	1.32385	1.21036	1.30644	AVRG		1.23192	16.46467
	1.44852	1.17809								
41 Cyclohexane	0.19330	0.21894	0.15046	0.23070	0.20519	0.16130	AVRG		0.19950	16.76123
	0.18765	0.24850								

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
End Cal Date : 21-APR-2005 18:53
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method File : /var/chem/gcms/me.i/E042105I.b/LA.m
Cal Date : 22-Apr-2005 15:50 wilesd

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	0.5000	2									
	Level 7	Level 8									
42 Carbon Tetrachloride	1.42999	1.49645	0.89994	1.59522	1.38538	1.52592					
	1.50042	1.68972					AVRG		1.44038		16.50083
145 2,2,4-trimethylpentane	2.48492	2.45498	2.42636	2.57228	2.24137	1.91403					
	2.29346	2.51462					AVRG		2.36275		8.98281
43 Heptane	1.20545	1.30131	1.28573	1.33478	1.16216	0.87634					
	1.09094	1.41403					AVRG		1.20884		13.95042
44 1,2-Dichloropropane	0.55904	0.38658	0.44718	0.50902	0.50752	0.46044					
	0.55196	0.40391					AVRG		0.47821		13.45424
45 Trichloroethene	0.60177	0.57833	0.58732	0.63487	0.63163	0.52005					
	0.58833	0.59875					AVRG		0.59263		6.03186
46 Dibromomethane	0.69272	0.55127	0.60198	0.66301	0.66039	0.66642					
	0.71829	0.60342					AVRG		0.64469		8.50239
47 Bromodichloromethane	1.30182	1.04394	1.13432	1.25158	1.22722	1.26153					
	1.32711	1.12224					AVRG		1.20872		8.14341

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
 Cal Date : 22-Apr-2005 15:50 wilesd

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	0.5000	2									
	Level 7	Level 8									
48 4-Methyl-2-pentanone	0.55657	0.46094	0.54302	0.61747	0.59448	0.36211			0.51198		16.19307
	0.49048	0.47078					AVRG				
49 cis-1,3-Dichloropropene	0.99897	0.76002	0.87768	1.02613	1.05797	0.70302			0.89578		14.62808
	0.93910	0.80394					AVRG				
50 trans-1,3-Dichloropropene	0.62004	0.47969	0.58677	0.67624	0.71093	0.54876			0.58994		13.71854
	0.60133	0.49577					AVRG				
51 Toluene	1.43413	1.06864	1.28599	1.46451	1.43404	1.17908			1.29270		11.96487
	1.35746	1.11774					AVRG				
52 1,1,2-Trichloroethane	0.66072	0.46260	0.54449	0.61375	0.61777	0.69796			0.59451		14.06208
	0.65866	0.50014					AVRG				
53 2-Hexanone	0.20719	0.18589	0.23362	0.27115	0.27123	++++			0.24372		27.89641
	0.16794	0.36903					AVRG				
54 Octane	0.44395	0.42077	0.48182	0.54865	0.53415	0.28293			0.44146		19.35811
	0.37944	0.44001					AVRG				

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
 Cal Date : 22-Apr-2005 15:50 wilesd

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2
	0.5000	2								
	Level 7	Level 8								
55 Dibromochloromethane	1.21226	0.97327	1.14255	1.31600	1.28194	1.11400	AVRG		1.16045	9.87666
	1.19183	1.05175								
56 1,2-Dibromoethane	0.86203	0.65666	0.79228	0.91100	0.92681	0.77463	AVRG		0.80704	12.15063
	0.84381	0.68913								
57 Tetrachloroethane	0.58395	0.57676	0.60837	0.66268	0.63471	0.54185	AVRG		0.59469	6.50025
	0.57184	0.57739								
58 Chlorobenzene	1.28287	0.92198	1.07603	1.21739	1.21914	1.12550	AVRG		1.14191	11.76306
	1.29065	1.00168								
59 Ethylbenzene	1.77664	1.37488	1.72939	1.98352	1.84672	1.12231	AVRG		1.59700	17.91340
	1.52149	1.42105								
60 m-Xylene (For p-)	188553	709604	1893857	3422124	7805290	16439	WLINR	0.01486	1.52416	0.99056
	72098	339080								
62 Nonane	1.02396	0.89846	1.09456	1.20947	1.02807	0.57794	AVRG		0.95392	19.69898
	0.87371	0.92520								

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
 Cal Date : 22-Apr-2005 15:50 wilesd

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	0.5000	2									
	Level 7	Level 8									
61 Bromoform	1.24111	1.01720	1.26290	1.46244	1.32935	0.99761			1.19393		13.98956
	1.21335	1.02747					AVRG				
63 Styrene	1.00111	0.81477	1.04042	1.21995	1.19607	0.59848			0.95043		21.87548
	0.90183	0.83082					AVRG				
64 o-Xylene	1.62020	1.22123	1.50059	1.70889	1.60512	1.03249			1.43038		16.17536
	1.47200	1.28251					AVRG				
65 1,1,2,2-Tetrachloroethane	1.46607	1.07245	1.28075	1.42792	1.30292	1.28547			1.30701		10.74961
	1.45524	1.16523					AVRG				
66 1,2,3-Trichloropropane	0.14848	0.10851	0.13048	0.14985	0.15749	0.11315			0.13501		14.44809
	0.15271	0.11943					AVRG				
67 Cumene	2.40900	1.84149	2.30790	2.57550	2.11953	1.59425			2.11157		15.23631
	2.13601	1.90886					AVRG				
134 a-Pinene	1.32070	1.08694	1.33638	1.51567	1.38496	0.81565			1.21535		18.01580
	1.14705	1.11547					AVRG				

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

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Start Cal Date      : 21-APR-2005 14:03
End Cal Date       : 21-APR-2005 18:53
Quant Method       : ISTD
Target Version     : 3.50
Integrator         : HP RTE
Method file        : /var/chem/gcms/me.i/E042105I.b/LA.m
Cal Date           : 22-Apr-2005 15:50 willesd

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[illegible]

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

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Start Cal Date      : 21-APR-2005 14:03
End Cal Date       : 21-APR-2005 18:53
Quant Method       : ISTD
Target Version     : 3.50
Integrator         : HP RTE
Method file        : /var/chem/gcms/me.i/E042105I.b/LA.m
Cal Date           : 22-Apr-2005 15:50 wilestd

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Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	Coefficients m1	m2	%RSD or R ²
	0.5000	2									
	Level 7	Level 8									
72 Decane	1.94468	1.52723	1.76595	1.78685	1.27716	1.29484	AVRG		1.62613		15.11729
	1.81115	1.60119									
73 1,2,4-Trimethylbenzene	1.83672	1.44375	1.79651	2.04565	1.75195	0.97587					
	1.55850	1.50283					AVRG		1.61397		20.14378
141 sec-butylbenzene	2.99453	2.41021	2.99969	3.10412	2.20567	1.63508					
	2.56790	2.48738					AVRG		2.55057		19.24337
74 1,3-Dichlorobenzene	1.55693	1.23225	1.53244	1.70506	1.48377	1.20043					
	1.50591	1.26988					AVRG		1.43583		12.57179
75 Benzyl Chloride	1.20847	1.10459	1.46875	1.67972	1.46868	0.77323					
	1.07546	1.06889					AVRG		1.23097		23.60200
76 1,4-Dichlorobenzene	1.47143	1.17902	1.47264	1.66644	1.48761	1.10274					
	1.38497	1.23374					AVRG		1.37482		13.71932
137 p-Cymene	2.45484	1.93274	2.41312	2.65235	2.02477	1.31465					
	2.14696	2.01564					AVRG		2.11938		19.41964

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
 Cal Date : 22-Apr-2005 15:50 wileed

Compound	1	5	10	15	30	0.2000	Curve	b	Coefficients	m1	m2	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
	0.5000	2										
	Level 7	Level 8										
138 d-Limonene	0.89076	0.71667	0.89243	1.00392	0.89197	0.50707				0.80252		19.02983
	0.77133	0.74601					AVRG					
77 1,2-Dichlorobenzene	1.39227	1.09570	1.37532	1.56972	1.41805	1.04588				1.29631		14.06314
	1.33048	1.14305					AVRG					
142 n-butylbenzene	2.34613	1.92217	2.38996	2.54154	1.89848	1.20203				2.04199		20.32725
	2.04282	1.99278					AVRG					
78 Undecane	1.98545	1.69347	2.06045	2.08922	1.47557	0.97915				1.72424		21.19184
	1.76680	1.74381					AVRG					
139 4-tert-Butyltoluene	2.34015	1.92428	2.48713	2.68396	1.98063	1.16227				2.07251		22.23708
	2.00936	1.99233					AVRG					
140 Camphor	+++++	0.31116	0.42452	0.39209	+++++	+++++				0.37593		15.53006
	+++++	+++++					AVRG					
79 Dodecane	0.93346	1.55845	1.77149	1.49642	+++++	+++++				1.34973		27.83026
	0.83451	1.50405					AVRG					

Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date	:	21-APR-2005	14:03
End Cal Date	:	21-APR-2005	18:53
Quant Method	:	ISTD	
Target Version	:	3.50	
Integrator	:	HP RTE	
Method file	:	/var/chem/gcms/me.i/E042105I.b/LA.m	
Cal Date	:	22-Apr-2005	15:50 wileds

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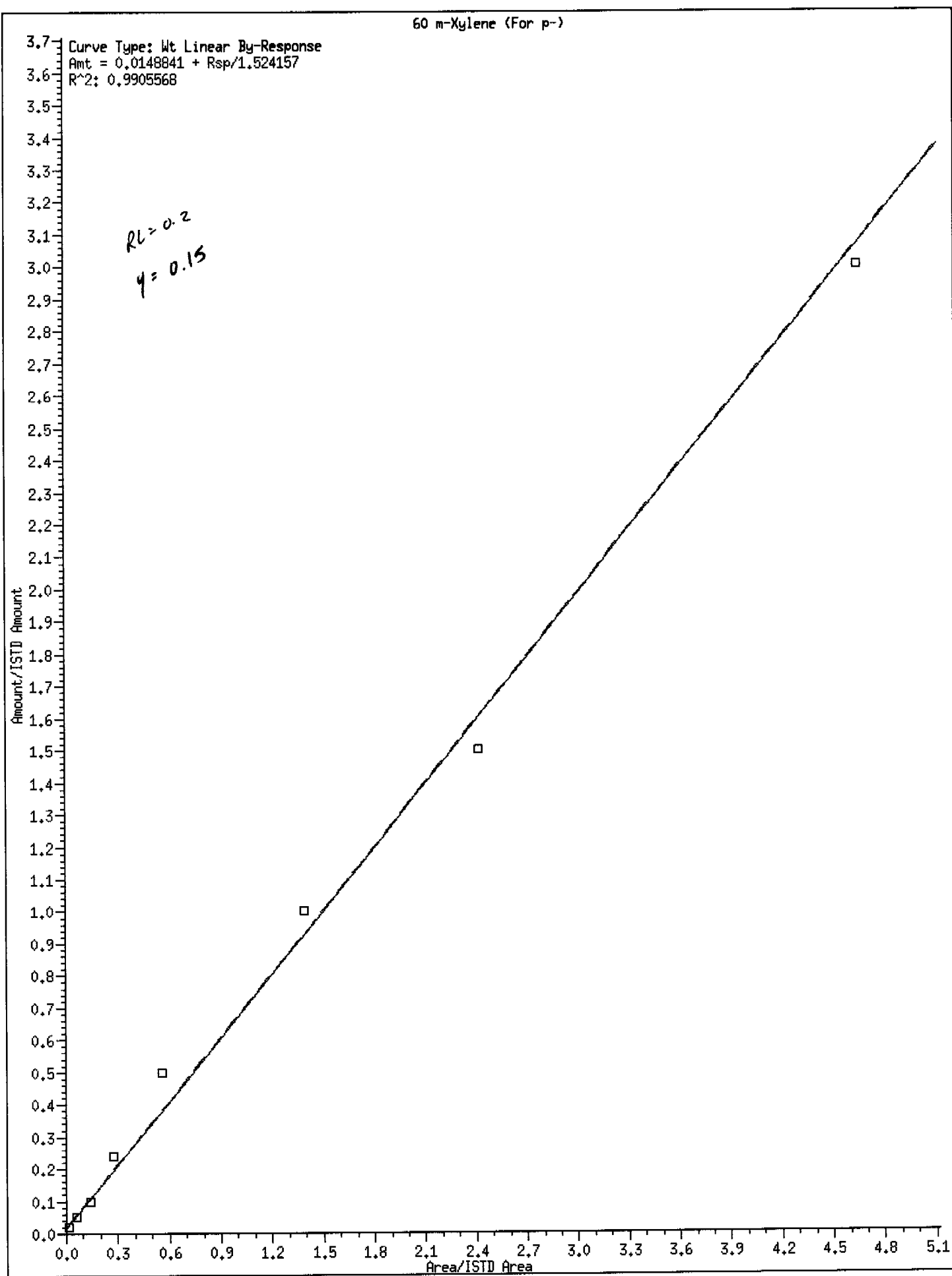
Report Date : 22-Apr-2005 15:52

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 21-APR-2005 14:03
 End Cal Date : 21-APR-2005 18:53
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/me.i/E042105I.b/LA.m
 Cal Date : 22-Apr-2005 15:50 wilestd

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Wt Linear	Amt = b + Rsp/ml	Response



Report Date:04/22/2005

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/me.i/E042105I.b/eicd216.d
 STD 2 = /var/chem/gcms/me.i/E042105I.b/eicd217.d
 STD 3 = /var/chem/gcms/me.i/E042105I.b/eicd211.d
 STD 4 = /var/chem/gcms/me.i/E042105I.b/eicd218.d ✓
 STD 5 = /var/chem/gcms/me.i/E042105I.b/eicd212.d
 STD 6 = /var/chem/gcms/me.i/E042105I.b/eicd213.d
 STD 7 = /var/chem/gcms/me.i/E042105I.b/eicd214.d
 STD 8 = /var/chem/gcms/me.i/E042105I.b/eicd215.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Bromochloromethane	9.686	9.696	9.691	9.685	9.691	9.691	9.691	9.707	9.692
1,4-Difluorobenzene	11.837	11.843	11.843	11.837	11.837	11.832	11.837	11.848	11.839
Chlorobenzene-d5	16.442	16.448	16.448	16.442	16.442	16.442	16.448	16.448	16.445
1,2-Dichloroethane-d4	0.904	0.905	0.904	0.904	0.904	0.905	0.904	0.905	0.904
Toluene-d8	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876
4-Bromofluorobenzene	1.098	1.097	1.097	1.098	1.098	1.098	1.097	1.097	1.098
Dichlorodifluoromethane	0.428	0.428	0.428	0.427	0.428	0.428	0.428	NA	0.428
Chlorodifluoromethane	0.421	0.421	0.420	0.420	0.420	0.420	0.420	0.420	0.420
1,2-Dichlorotetrafluoroethane	0.451	0.451	0.451	0.451	0.451	0.452	0.451	0.451	0.451
Chloromethane	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450
Vinyl Chloride	0.471	0.470	0.471	0.470	0.470	0.471	0.470	0.471	0.470
n-Butane	0.481	0.481	0.482	0.481	0.481	0.482	0.482	0.481	0.481
1,3-Butadiene	0.481	0.481	0.482	0.481	0.482	0.482	0.482	0.481	0.482
Bromomethane	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520	0.520
Chloroethane	0.537	0.537	0.538	0.537	0.537	0.538	0.537	0.537	0.537
Trichlorofluoromethane	0.604	0.604	0.604	0.604	0.604	0.605	0.604	0.604	0.604
Pentane	0.629	0.630	0.630	0.631	0.630	0.630	0.630	0.630	0.630
1,1-Dichloroethene	0.684	0.684	0.685	0.684	0.684	0.685	0.685	0.685	0.684
1,1,2-Trichlorotrifluoroethane	0.705	0.705	0.705	0.705	0.705	0.706	0.705	0.706	0.705
Carbon Disulfide	0.742	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741
3-Chloropropene	0.726	0.726	0.726	0.726	0.726	0.726	0.726	0.726	0.726
Methylene Chloride	0.723	0.724	0.724	0.723	0.724	0.724	0.724	0.723	0.724
trans-1,2-Dichloroethene	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813	0.813
Hexane	0.923	0.922	0.922	0.922	0.922	0.923	0.922	0.922	0.922
1,1-Dichloroethane	0.860	0.860	0.859	0.859	0.860	0.860	0.860	0.859	0.860
cis 1,2-Dichloroethene	0.965	0.965	0.965	0.965	0.965	0.966	0.965	0.964	0.965
Chloroform	1.001	1.001	1.001	1.001	1.001	1.002	1.002	1.001	1.001
1,1,1-Trichloroethane	1.109	1.109	1.109	1.109	1.108	1.109	1.109	1.109	1.109
Cyclohexane	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.957	0.956
Carbon Tetrachloride	0.957	0.958	0.958	0.958	0.957	0.958	0.958	0.958	0.958
Benzene	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.956	0.956
1,2-Dichloroethane	0.916	0.917	0.917	0.916	0.916	0.917	0.917	0.917	0.917
Heptane	1.048	1.049	1.048	1.048	1.048	1.049	1.049	1.048	1.048
Trichloroethene	1.058	1.057	1.057	1.057	1.057	1.058	1.058	1.058	1.058
1,2-Dichloropropane	1.055	1.056	1.055	1.056	1.056	1.056	1.056	1.056	1.056
Dibromomethane	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064
Bromodichloromethane	1.076	1.076	1.076	1.076	1.076	1.076	1.076	1.076	1.076
cis-1,3-Dichloropropene	1.158	1.158	1.158	1.158	1.158	1.158	1.158	1.158	1.158

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:04/22/2005

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/me.i/E042105I.b/eicd216.d
 STD 2 = /var/chem/gcms/me.i/E042105I.b/eicd217.d
 STD 3 = /var/chem/gcms/me.i/E042105I.b/eicd211.d
 STD 4 = /var/chem/gcms/me.i/E042105I.b/eicd218.d
 STD 5 = /var/chem/gcms/me.i/E042105I.b/eicd212.d
 STD 6 = /var/chem/gcms/me.i/E042105I.b/eicd213.d
 STD 7 = /var/chem/gcms/me.i/E042105I.b/eicd214.d
 STD 8 = /var/chem/gcms/me.i/E042105I.b/eicd215.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Toluene	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.883	0.882
Octane	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923
trans-1,3-Dichloropropene	0.875	0.875	0.874	0.875	0.875	0.875	0.874	0.875	0.875
1,1,2-Trichloroethane	0.887	0.886	0.886	0.886	0.886	0.887	0.886	0.887	0.886
Tetrachloroethene	0.950	0.951	0.950	0.950	0.950	0.950	0.950	0.951	0.950
Dibromochloromethane	0.929	0.928	0.928	0.928	0.928	0.928	0.928	0.929	0.928
1,2-Dibromoethane	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946	0.946
Chlorobenzene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
Ethylbenzene	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
m-Xylene (For p-)	1.029	1.029	1.029	1.029	1.029	1.029	1.029	1.029	1.029
Nonane	1.055	1.055	1.054	1.055	1.055	1.055	1.055	1.055	1.055
o-Xylene	1.062	1.061	1.061	1.062	1.062	1.062	1.061	1.061	1.062
Styrene	1.058	1.058	1.057	1.058	1.058	1.058	1.058	1.058	1.058
Bromoform	1.057	1.056	1.056	1.057	1.057	1.057	1.056	1.056	1.056
Cumene	1.096	1.096	1.096	1.096	1.096	1.096	1.096	1.096	1.096
1,1,1,2-Tetrachloroethane	1.080	1.080	1.079	1.080	1.080	1.080	1.080	1.080	1.080
n-Propylbenzene	1.127	1.127	1.126	1.127	1.127	1.127	1.126	1.127	1.127
1,3,5-Trimethylbenzene	1.140	1.139	1.139	1.140	1.140	1.140	1.139	1.140	1.140
Decane	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156	1.156
Alpha-Methylstyrene	1.153	1.152	1.152	1.152	1.152	1.153	1.152	1.152	1.152
1,2,4-Trimethylbenzene	1.165	1.165	1.164	1.165	1.165	1.165	1.164	1.165	1.165
1,3-Dichlorobenzene	1.181	1.180	1.180	1.181	1.181	1.181	1.180	1.180	1.180
1,4-Dichlorobenzene	1.186	1.185	1.185	1.186	1.186	1.186	1.185	1.186	1.186
Benzyl Chloride	1.185	1.185	1.184	1.185	1.185	1.185	1.185	1.185	1.185
1,2-Dichlorobenzene	1.207	1.207	1.206	1.207	1.207	1.207	1.207	1.207	1.207
Undecane	1.233	1.232	1.232	1.233	1.233	1.233	1.232	1.232	1.232
Dodecane	NA	1.299	1.299	1.300	1.299	1.300	1.299	NA	1.299
1,2,4-Trichlorobenzene	1.313	1.313	1.312	1.313	1.313	1.313	1.312	1.312	1.313
Hexachlorobutadiene	1.335	1.334	1.334	1.335	1.335	1.335	1.334	1.334	1.334
Napthalene	NA	1.322	1.322	1.322	1.322	1.322	1.322	1.322	1.322
Methanol	NA	NA	NA	0.468	0.468	0.468	0.467	0.467	0.468
Ethyl Ether	0.652	0.650	0.650	0.650	0.649	0.650	0.649	0.649	0.650
Acetone	NA	NA	NA	0.620	0.620	0.620	0.619	0.620	0.620
Acrylonitrile	0.701	0.700	0.698	0.698	0.698	0.698	0.698	0.698	0.699
Vinyl Acetate	0.873	0.872	0.872	0.872	0.872	0.872	0.872	0.871	0.872
2-Butanone	0.923	0.922	0.922	0.921	0.921	0.921	0.921	0.920	0.921
1-Butanol	0.954	0.954	0.953	0.952	0.952	0.951	0.951	0.951	0.952
4-Methyl-2-pentanone	1.155	1.154	1.154	1.154	1.154	1.154	1.154	1.153	1.154

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:04/22/2005

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/me.i/E042105I.b/eicd216.d
 STD 2 = /var/chem/gcms/me.i/E042105I.b/eicd217.d
 STD 3 = /var/chem/gcms/me.i/E042105I.b/eicd211.d
 STD 4 = /var/chem/gcms/me.i/E042105I.b/eicd218.d
 STD 5 = /var/chem/gcms/me.i/E042105I.b/eicd212.d
 STD 6 = /var/chem/gcms/me.i/E042105I.b/eicd213.d
 STD 7 = /var/chem/gcms/me.i/E042105I.b/eicd214.d
 STD 8 = /var/chem/gcms/me.i/E042105I.b/eicd215.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
2-Hexanone	NA	0.910	0.909	0.909	0.909	0.909	0.909	0.909	0.909
Methyl-t-Butyl Ether	0.830	0.830	0.829	0.829	0.828	0.828	0.828	0.828	0.829
Acrolein	0.608	0.607	0.608	0.607	0.606	0.606	0.606	0.606	0.607
Acetonitrile	0.618	0.616	0.615	0.616	0.614	0.615	0.614	0.614	0.615
4-Ethyltoluene	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135
1,2,3-Trichloropropane	1.090	1.089	1.089	1.090	1.090	1.090	1.089	1.090	1.090
2,3-Dimethyl butane	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806	0.806
a-Pinene	1.109	1.110	1.109	1.110	1.110	1.110	1.109	1.110	1.110
Camphene	1.129	1.128	1.128	1.128	1.128	1.128	1.128	1.128	1.128
b-Pinene	1.155	1.155	1.155	1.155	1.155	1.155	1.155	1.155	1.155
p-Cymene	1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189
d-Limonene	1.194	1.194	1.193	1.194	1.194	1.194	1.193	1.194	1.194
4-tert-Butyltoluene	1.241	1.241	1.240	1.241	1.241	1.241	1.240	1.241	1.241
Camphor	NA	NA	NA	NA	1.290	1.290	1.290	NA	1.290
sec-butylbenzene	1.180	1.180	1.180	1.180	1.180	1.180	1.180	1.180	1.180
n-butylbenzene	1.215	1.214	1.214	1.215	1.215	1.215	1.214	1.214	1.214
Vinyl Bromide	0.572	0.573	0.572	0.572	0.572	0.573	0.572	0.573	0.572
tert-butanol	0.700	0.698	0.697	0.696	0.696	0.696	0.696	0.696	0.697
2,2,4-trimethylpentane	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019
2-chlorotoluene	1.129	1.129	1.129	1.129	1.130	1.130	1.129	1.130	1.129

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Data File: /var/chem/gcms/me.i/E042105I.b/eicd216.d
Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd216.d
Lab Smp Id: IC6 Client Smp ID: 0.2PPBV
Inj Date : 21-APR-2005 14:03
Operator : 60487 Inst ID: me.i
Smp Info : IC6,,1,6,,0.2PPBV
Misc Info : E042105I,LA,,,100ML
Comment :
Method : /var/chem/gcms/me.i/E042105I.b/LA.m
Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
Cal Date : 21-APR-2005 14:03 Cal File: eicd216.d
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

w f

		QUANT SIG				AMOUNTS		
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
*****		----	==	=====	=====	=====	=====	=====
*	1 Bromochloromethane	128	9.686	9.691	(1.000)	316186	10.0000	
*	2 1,4-Difluorobenzene	114	11.837	11.832	(1.000)	1077776	10.0000	
*	3 Chlorobenzene-d5	117	16.442	16.442	(1.000)	1034875	10.0000	
\$	4 1,2-Dichloroethane-d4	67	10.702	10.708	(0.904)	280416	10.0000	11.50
\$	5 Toluene-d8	98	14.403	14.403	(0.876)	965109	10.0000	9.984
\$	6 4-Bromofluorobenzene	95	18.051	18.051	(1.098)	747188	10.0000	9.300
	7 Chlorodifluoromethane	51	4.075	4.075	(0.421)	28932	0.20000	0.1984
	8 Dichlorodifluoromethane	85	4.145	4.150	(0.428)	36032	0.20000	0.1995
	9 Chloromethane	52	4.354	4.360	(0.450)	4532	0.20000	0.2414
	10 1,2-Dichlorotetrafluoroethane	135	4.365	4.376	(0.451)	27800	0.20000	0.2190
	12 Methanol	31	4.537	4.532	(0.468)	15897	0.80000	2.319
	11 Vinyl Chloride	62	4.559	4.564	(0.471)	10765	0.20000	0.2087
	13 1,3-Butadiene	54	4.661	4.666	(0.481)	9123	0.20000	0.2222
	14 n-Butane	43	4.656	4.666	(0.481)	22472	0.20000	0.2254
	15 Bromomethane	94	5.038	5.043	(0.520)	11974	0.20000	0.2100
	16 Chloroethane	64	5.204	5.210	(0.537)	5659	0.20000	0.2202
	143 Vinyl Bromide	106	5.543	5.554	(0.572)	23341	0.20000	0.2094
	17 Trichlorofluoromethane	101	5.850	5.861	(0.604)	53686	0.20000	0.2354
	18 Acrolein	56	5.888	5.877	(0.608)	2577	0.40000	0.4265
	19 Acetonitrile	40	5.984	5.957	(0.618)	4467	0.40000	0.5307
	20 Acetone	58	6.022	6.006	(0.622)	7109	0.40000	1.057
	21 Pentane	57	6.092	6.108	(0.629)	3222	0.20000	0.2161

Data File: /var/chem/gcms/me.i/E042105I.b/eicd216.d
 Report Date: 22-Apr-2005 14:53

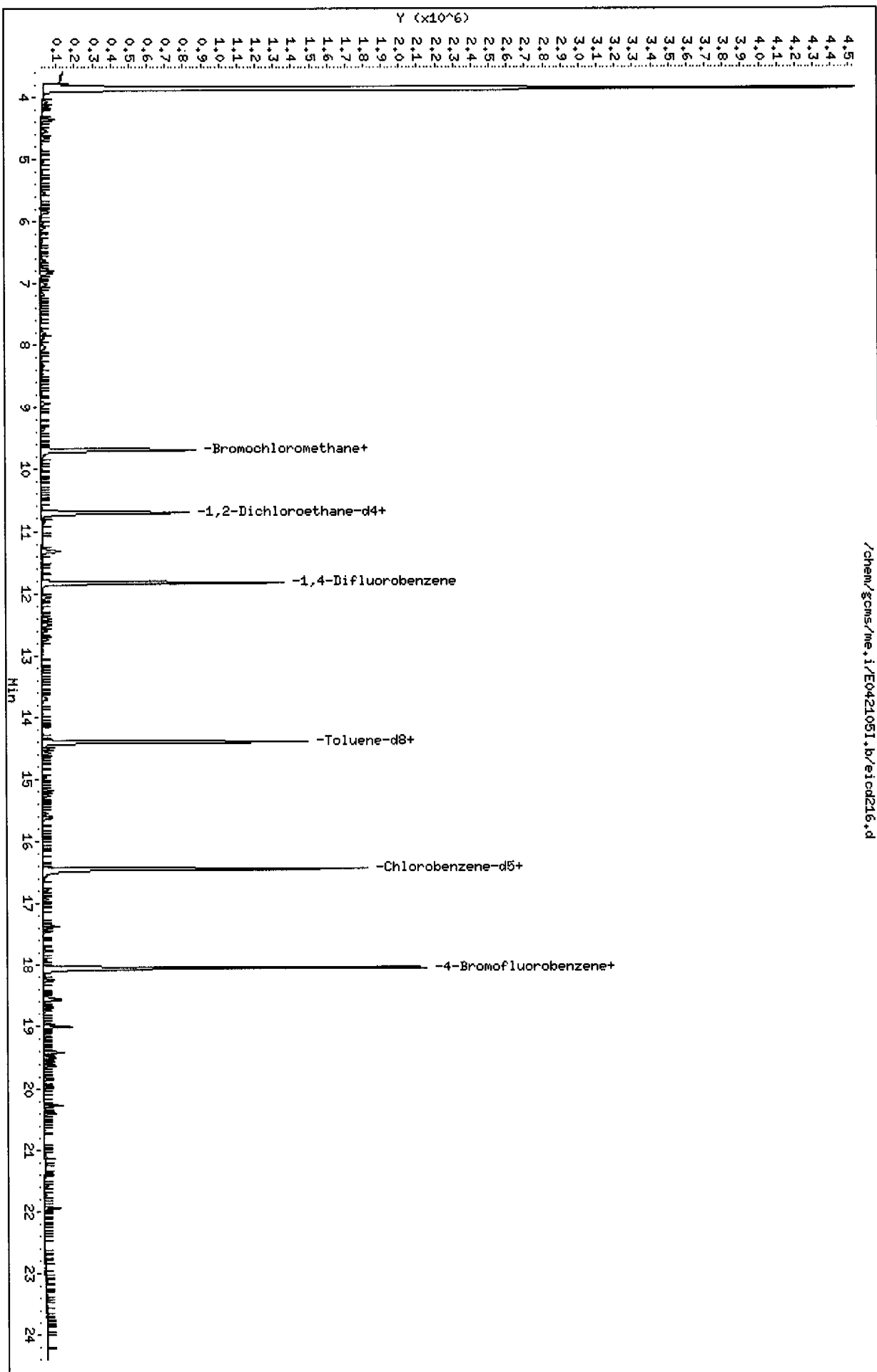
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.313	6.296	(0.652)	8010	0.40000	0.4460
23 1,1-Dichloroethene	96	6.625	6.641	(0.684)	12225	0.20000	0.2162
144 tert-butanol	59	6.775	6.743	(0.700)	42405	0.40000	0.4741
24 Acrylonitrile	53	6.786	6.764	(0.701)	6426	0.40000	0.4479
25 1,1,2-Trichlorotrifluoroethane	101	6.829	6.840	(0.705)	33705	0.20000	0.2249
26 Methylene Chloride	84	7.007	7.017	(0.723)	14608	0.20000	0.2497
27 3-Chloropropene	39	7.028	7.039	(0.726)	11743	0.20000	0.2363
28 Carbon Disulfide	76	7.184	7.184	(0.742)	39053	0.20000	0.2187
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	27478	0.20000	0.2258
29 trans-1,2-Dichloroethene	96	7.873	7.883	(0.813)	11107	0.20000	0.2088
30 Methyl-t-Butyl Ether	73	8.039	8.029	(0.830)	21780	0.40000	0.4214
31 1,1-Dichloroethane	63	8.330	8.335	(0.860)	23703	0.20000	0.2200
32 Vinyl Acetate	43	8.454	8.448	(0.873)	19011	0.40000	0.4430
33 2-Butanone	72	8.943	8.927	(0.923)	4275	0.40000	0.4547
34 Hexane	56	8.938	8.943	(0.923)	10365	0.20000	0.2194
35 cis 1,2-Dichloroethene	96	9.347	9.357	(0.965)	12396	0.20000	0.2155
36 Chloroform	83	9.696	9.707	(1.001)	24998	0.20000	0.2024
37 1,1,1-Trichloroethane	97	10.745	10.745	(1.109)	27085	0.20000	0.2290
38 1,2-Dichloroethane	62	10.842	10.853	(0.916)	18048	0.20000	0.2381
40 1-Butanol	31	11.299	11.256	(0.955)	4289	0.40000	0.4312
39 Benzene	78	11.316	11.316	(0.956)	28161	0.20000	0.2035
41 Cyclohexane	69	11.316	11.316	(0.956)	3477	0.20000	0.1688
42 Carbon Tetrachloride	117	11.332	11.332	(0.957)	32892	0.20000	0.2056
145 2,2,4-trimethylpentane	57	12.058	12.058	(1.019)	41258	0.20000	0.1676
43 Heptane	43	12.408	12.408	(1.048)	18890	0.20000	0.1554
44 1,2-Dichloropropane	63	12.488	12.494	(1.055)	9925	0.20000	0.1965
45 Trichloroethene	130	12.521	12.515	(1.058)	11210	0.20000	0.1835
46 Dibromomethane	93	12.596	12.596	(1.064)	14365	0.20000	0.2093
47 Bromodichloromethane	83	12.736	12.736	(1.076)	27193	0.20000	0.2098
48 4-Methyl-2-pentanone	43	13.672	13.661	(1.155)	15611	0.40000	0.3150
49 cis-1,3-Dichloropropene	75	13.710	13.704	(1.158)	15154	0.20000	0.1713
50 trans-1,3-Dichloropropene	75	14.387	14.382	(0.875)	11358	0.20000	0.1997
51 Toluene	91	14.511	14.511	(0.883)	24404	0.20000	0.1921
52 1,1,2-Trichloroethane	97	14.586	14.581	(0.887)	14446	0.20000	0.2299
53 2-Hexanone	58	14.968	14.952	(0.910)	4951	0.40000	0.2800
54 Octane	85	15.173	15.178	(0.923)	5856	0.20000	0.1479
55 Dibromochloromethane	129	15.270	15.264	(0.929)	23057	0.20000	0.2026
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	16033	0.20000	0.2027
57 Tetrachloroethene	129	15.630	15.630	(0.951)	11215	0.20000	0.1910
58 Chlorobenzene	112	16.491	16.491	(1.003)	23295	0.20000	0.2028
59 Ethylbenzene	91	16.776	16.776	(1.020)	23229	0.20000	0.1576
60 m-Xylene (For p-)	91	16.927	16.926	(1.029)	16499	0.20000	0.1437
62 Nonane	57	17.341	17.346	(1.055)	11962	0.20000	0.1387
61 Bromoform	173	17.378	17.378	(1.057)	20648	0.20000	0.1838
63 Styrene	104	17.395	17.394	(1.058)	12387	0.20000	0.1487
64 o-Xylene	91	17.454	17.454	(1.062)	21370	0.20000	0.1599
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	26606	0.20000	0.2017

Data File: /var/chem/gcms/me.i/E042105I.b/eicd216.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
-----	----	==	=====	=====	=====	-----	-----
66 1,2,3-Trichloropropane	110	17.922	17.922	(1.090)	2342	0.20000	0.1834
67 Cumene	105	18.029	18.024	(1.097)	32997	0.20000	0.1637
134 a-Pinene	93	18.239	18.244	(1.109)	16882	0.20000	0.1518
68 n-Propylbenzene	120	18.530	18.530	(1.127)	7636	0.20000	0.1366
135 Camphene	93	18.562	18.556	(1.129)	15494	0.20000	0.1668
146 2-chlorotoluene	126	18.567	18.573	(1.129)	9475	0.20000	0.1733
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	29599	0.20000	0.1446
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.140)	11038	0.20000	0.1542
71 Alpha-Methylstyrene	118	18.955	18.955	(1.153)	10592	0.20000	0.1323
136 b-Pinene	93	18.998	18.998	(1.155)	18454	0.20000	0.1599
72 Decane	57	19.008	19.008	(1.156)	26800	0.20000	0.1630
73 1,2,4-Trimethylbenzene	105	19.159	19.154	(1.165)	20198	0.20000	0.1376
141 sec-butylbenzene	105	19.406	19.406	(1.180)	33842	0.20000	0.1394
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	24846	0.20000	0.1805
75 Benzyl Chloride	91	19.482	19.487	(1.185)	16004	0.20000	0.1503
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	22824	0.20000	0.1763
77 1,2-Dichlorobenzene	146	19.848	19.848	(1.207)	21647	0.20000	0.1776
142 n-butylbenzene	91	19.971	19.971	(1.215)	24879	0.20000	0.1318
78 Undecane	57	20.273	20.273	(1.233)	20266	0.20000	0.1261
140 Camphor	95	21.230	21.214	(1.291)	2350	0.20000	0.07299
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	6873	0.20000	0.1476
81 Napthalene	128	21.741	21.736	(1.322)	9052	0.20000	0.1039
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	14403	0.20000	0.1813

Data File: /chem/gcms/me.i/E0421051.b/eicd216.d
Date : 21-APR-2005 14:03
Client ID: 0.2PPBV
Sample Info: IC6,,1.6,,0.2PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd217.d
Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd217.d
Lab Smp Id: IC7 Client Smp ID: 0.5PPBV
Inj Date : 21-APR-2005 15:12
Operator : 60487 Inst ID: me.i
Smp Info : IC7,,1,7,,0.5PPBV
Misc Info : E042105I,LA,,,250ML
Comment :
Method : /var/chem/gcms/me.i/E042105I.b/LA.m
Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
Cal Date : 21-APR-2005 15:12 Cal File: eicd217.d
Als bottle: 14 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL (ppb(v/v)) (ppb(v/v))
=====	----	----	==	=====	=====	=====	=====
* 1 Bromochloromethane	128		9.696	9.691	(1.000)	345001	10.0000
* 2 1,4-Difluorobenzene	114		11.843	11.832	(1.000)	1208237	10.0000
* 3 Chlorobenzene-d5	117		16.448	16.442	(1.000)	1224114	10.0000
\$ 4 1,2-Dichloroethane-d4	67		10.713	10.708	(0.905)	305750	10.0000 10.86
\$ 5 Toluene-d8	98		14.409	14.403	(0.876)	1134566	10.0000 9.942
\$ 6 4-Bromofluorobenzene	95		18.051	18.051	(1.097)	922837	10.0000 9.781
7 Chlorodifluoromethane	51		4.080	4.075	(0.421)	82986	0.50000 0.5160
8 Dichlorodifluoromethane	85		4.150	4.150	(0.428)	99559	0.50000 0.5038
9 Chloromethane	52		4.365	4.360	(0.450)	10804	0.50000 0.5203
10 1,2-Dichlorotetrafluoroethane	135		4.376	4.376	(0.451)	73261	0.50000 0.5214
12 Methanol	31		4.537	4.532	(0.468)	31166	2.00000 4.166
11 Vinyl Chloride	62		4.559	4.564	(0.470)	29831	0.50000 0.5222
13 1,3-Butadiene	54		4.666	4.666	(0.481)	23185	0.50000 0.5130
14 n-Butane	43		4.666	4.666	(0.481)	59514	0.50000 0.5345
15 Bromomethane	94		5.043	5.043	(0.520)	35498	0.50000 0.5512
16 Chloroethane	64		5.210	5.210	(0.537)	14976	0.50000 0.5252
143 Vinyl Bromide	106		5.554	5.554	(0.573)	63390	0.50000 0.5157
17 Trichlorofluoromethane	101		5.861	5.861	(0.604)	137899	0.50000 0.5396
18 Acrolein	56		5.887	5.877	(0.607)	7586	1.00000 1.109
19 Acetonitrile	40		5.968	5.957	(0.616)	11743	1.00000 1.195
20 Acetone	58		6.027	6.006	(0.622)	20231	1.00000 2.758
21 Pentane	57		6.113	6.108	(0.630)	9203	0.50000 0.5477

Data File: /var/chem/gcms/me.i/E042105I.b/eicd217.d
 Report Date: 22-Apr-2005 14:53

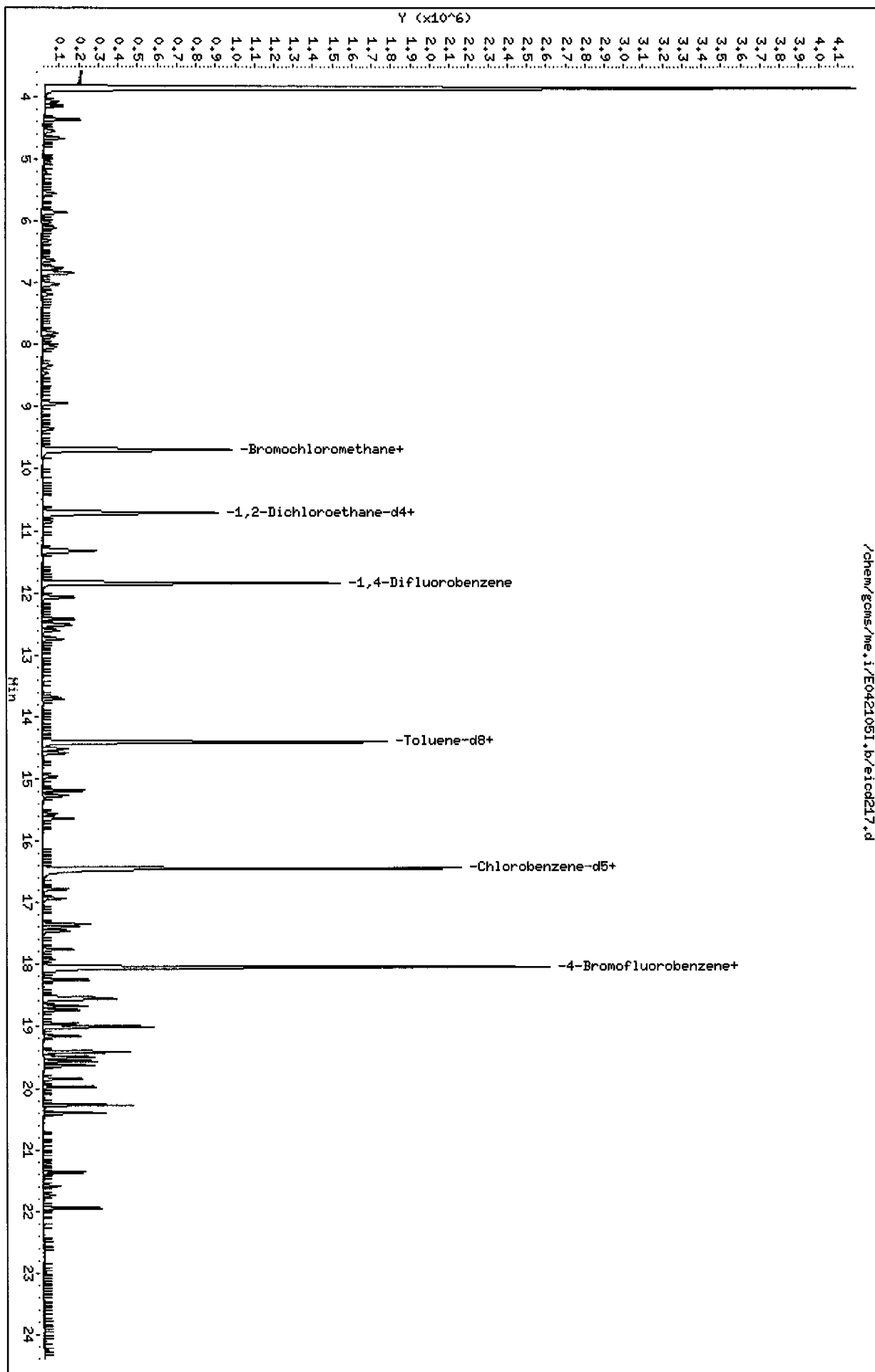
Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.307	6.296	(0.650)	25175	1.00000	1.199
23 1,1-Dichloroethene	96	6.635	6.641	(0.684)	32882	0.50000	0.5244
144 tert-butanol	59	6.764	6.743	(0.698)	116715	1.00000	1.140
24 Acrylonitrile	53	6.786	6.764	(0.700)	17812	1.00000	1.100
25 1,1,2-Trichlorotrifluoroethane	101	6.840	6.840	(0.705)	87103	0.50000	0.5241
26 Methylene Chloride	84	7.017	7.017	(0.724)	33323	0.50000	0.5164
27 3-Chloropropene	39	7.039	7.039	(0.726)	30554	0.50000	0.5462
28 Carbon Disulfide	76	7.184	7.184	(0.741)	100546	0.50000	0.5120
133 2,3-Dimethyl butane	43	7.813	7.813	(0.806)	70305	0.50000	0.5218
29 trans-1,2-Dichloroethene	96	7.883	7.883	(0.813)	30557	0.50000	0.5195
30 Methyl-t-Butyl Ether	73	8.045	8.029	(0.830)	67443	1.00000	1.140
31 1,1-Dichloroethane	63	8.335	8.335	(0.860)	68838	0.50000	0.5616
32 Vinyl Acetate	43	8.459	8.448	(0.872)	58534	1.00000	1.176
33 2-Butanone	72	8.938	8.927	(0.922)	12498	1.00000	1.155
34 Hexane	56	8.943	8.943	(0.922)	28510	0.50000	0.5387
35 cis 1,2-Dichloroethene	96	9.357	9.357	(0.965)	34790	0.50000	0.5396
36 Chloroform	83	9.707	9.707	(1.001)	72487	0.50000	0.5279
37 1,1,1-Trichloroethane	97	10.756	10.745	(1.109)	76029	0.50000	0.5640
38 1,2-Dichloroethane	62	10.858	10.853	(0.917)	53343	0.50000	0.5900
40 1-Butanol	31	11.299	11.256	(0.954)	11116	1.00000	0.9977
39 Benzene	78	11.321	11.316	(0.956)	87508	0.50000	0.5466
41 Cyclohexane	69	11.326	11.316	(0.956)	11336	0.50000	0.4931
42 Carbon Tetrachloride	117	11.342	11.332	(0.958)	90643	0.50000	0.5041
145 2,2,4-trimethylpentane	57	12.069	12.058	(1.019)	138552	0.50000	0.5014
43 Heptane	43	12.418	12.408	(1.049)	65906	0.50000	0.4877
44 1,2-Dichloropropane	63	12.504	12.494	(1.056)	33345	0.50000	0.5638
45 Trichloroethene	130	12.520	12.515	(1.057)	35542	0.50000	0.5142
46 Dibromomethane	93	12.601	12.596	(1.064)	43393	0.50000	0.5465
47 Bromodichloromethane	83	12.746	12.736	(1.076)	80173	0.50000	0.5379
48 4-Methyl-2-pentanone	43	13.672	13.661	(1.154)	59262	1.00000	1.049
49 cis-1,3-Dichloropropene	75	13.715	13.704	(1.158)	56733	0.50000	0.5522
50 trans-1,3-Dichloropropene	75	14.387	14.382	(0.875)	36805	0.50000	0.5346
51 Toluene	91	14.516	14.511	(0.883)	83084	0.50000	0.5387
52 1,1,2-Trichloroethane	97	14.581	14.581	(0.886)	40314	0.50000	0.5312
53 2-Hexanone	58	14.963	14.952	(0.910)	20558	1.00000	0.9870
54 Octane	85	15.183	15.178	(0.923)	23224	0.50000	0.4970
55 Dibromochloromethane	129	15.269	15.264	(0.928)	72947	0.50000	0.5307
56 1,2-Dibromoethane	107	15.565	15.560	(0.946)	51646	0.50000	0.5380
57 Tetrachloroethene	129	15.635	15.630	(0.951)	35000	0.50000	0.5029
58 Chlorobenzene	112	16.496	16.491	(1.003)	78995	0.50000	0.5586
59 Ethylbenzene	91	16.781	16.776	(1.020)	93124	0.50000	0.5251
60 m-Xylene (For p-)	91	16.932	16.926	(1.029)	72098	0.50000	0.5228
62 Nonane	57	17.346	17.346	(1.055)	53476	0.50000	0.5179
61 Bromoform	173	17.378	17.378	(1.057)	74264	0.50000	0.5430
63 Styrene	104	17.400	17.394	(1.058)	55197	0.50000	0.5439
64 o-Xylene	91	17.459	17.454	(1.061)	90095	0.50000	0.5507
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	89069	0.50000	0.5513

Data File: /var/chem/gcms/me.i/E042105I.b/eicd217.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	=====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.089)	9347	0.50000	0.5842
67 Cumene	105	18.029	18.024	(1.096)	130736	0.50000	0.5353
134 a-Pinene	93	18.250	18.244	(1.110)	70206	0.50000	0.5249
68 n-Propylbenzene	120	18.535	18.530	(1.127)	37144	0.50000	0.5448
135 Camphene	93	18.562	18.556	(1.129)	62239	0.50000	0.5483
146 2-chlorotoluene	126	18.573	18.573	(1.129)	37325	0.50000	0.5558
69 4-Ethyltoluene	105	18.675	18.669	(1.135)	135170	0.50000	0.5424
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.139)	47167	0.50000	0.5415
71 Alpha-Methylstyrene	118	18.954	18.955	(1.152)	49334	0.50000	0.5157
136 b-Pinene	93	18.997	18.998	(1.155)	80096	0.50000	0.5624
72 Decane	57	19.008	19.008	(1.156)	110853	0.50000	0.5507
73 1,2,4-Trimethylbenzene	105	19.159	19.154	(1.165)	95389	0.50000	0.5360
141 sec-butylbenzene	105	19.406	19.406	(1.180)	157170	0.50000	0.5346
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	92170	0.50000	0.5480
75 Benzyl Chloride	91	19.487	19.487	(1.185)	65824	0.50000	0.5168
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.185)	84768	0.50000	0.5391
137 p-Cymene	119	19.557	19.557	(1.189)	131406	0.50000	0.5470
138 d-Limonene	68	19.632	19.627	(1.194)	47210	0.50000	0.5346
77 1,2-Dichlorobenzene	146	19.847	19.848	(1.207)	81433	0.50000	0.5470
142 n-butylbenzene	91	19.977	19.971	(1.215)	125032	0.50000	0.5438
78 Undecane	57	20.272	20.273	(1.233)	108138	0.50000	0.5500
139 4-tert-Butyltoluene	133	20.407	20.402	(1.241)	122984	0.50000	0.5404
140 Camphor	95	21.225	21.214	(1.290)	8800	0.50000	0.2310
79 Dodecane	57	21.370	21.370	(1.299)	51077	0.50000	0.4442
80 1,2,4-Trichlorobenzene	180	21.590	21.585	(1.313)	26553	0.50000	0.4864
81 Napthalene	128	21.741	21.736	(1.322)	42094	0.50000	0.4280
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	50238	0.50000	0.5256

Data File: /chem/gcms/me.i/E0421051.b/eicd217.d
Date : 21-APR-2005 15:12
Client ID: 0.5PPBV
Sample Info: IC7,,4,7,,0.5PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd211.d
 Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd211.d
 Lab Smp Id: IC1 Client Smp ID: 1PPBV
 Inj Date : 21-APR-2005 15:51
 Operator : 60487 Inst ID: me.i
 Smp Info : IC1,,1,1,,1PPBV
 Misc Info : E042105I,LA,,,500ML
 Comment :
 Method : /var/chem/gcms/me.i/E042105I.b/LA.m
 Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
 Cal Date : 21-APR-2005 15:51 Cal File: eicd211.d
 Als bottle: 14 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

						AMOUNTS		
		QUANT	SIG					
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====		=====	==	=====	=====	=====	=====	=====
*	1 Bromochloromethane	128	9.691	9.691	(1.000)	367045	10.0000	
*	2 1,4-Difluorobenzene	114	11.843	11.832	(1.000)	1295070	10.0000	
*	3 Chlorobenzene-d5	117	16.448	16.442	(1.000)	1328905	10.0000	
\$	4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.904)	315315	10.0000	10.00
\$	5 Toluene-d8	98	14.403	14.403	(0.876)	1222814	10.0000	10.00
\$	6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	1029177	10.0000	10.00
	7 Chlorodifluoromethane	51	4.075	4.075	(0.420)	171903	1.00000	1.000
	8 Dichlorodifluoromethane	85	4.144	4.150	(0.428)	209863	1.00000	1.000
	9 Chloromethane	52	4.360	4.360	(0.450)	21520	1.00000	1.000
	10 1,2-Dichlorotetrafluoroethane	135	4.370	4.376	(0.451)	146473	1.00000	1.000
	12 Methanol	31	4.543	4.532	(0.469)	38651	4.00000	4.000
	11 Vinyl Chloride	62	4.564	4.564	(0.471)	60915	1.00000	1.000
	13 1,3-Butadiene	54	4.666	4.666	(0.482)	46546	1.00000	1.000
	14 n-Butane	43	4.666	4.666	(0.482)	116767	1.00000	1.000
	15 Bromomethane	94	5.037	5.043	(0.520)	66767	1.00000	1.000
	16 Chloroethane	64	5.210	5.210	(0.538)	29237	1.00000	1.000
143	Vinyl Bromide	106	5.549	5.554	(0.573)	130270	1.00000	1.000
	17 Trichlorofluoromethane	101	5.855	5.861	(0.604)	258169	1.00000	1.000
	18 Acrolein	56	5.887	5.877	(0.608)	16935	2.00000	2.000
	19 Acetonitrile	40	5.963	5.957	(0.615)	20606	2.00000	2.000
	21 Pentane	57	6.103	6.108	(0.630)	17597	1.00000	1.000
	22 Ethyl Ether	31	6.302	6.296	(0.650)	49216	2.00000	2.000

Data File: /var/chem/gcms/me.i/E042105I.b/eicd211.d
 Report Date: 22-Apr-2005 14:53

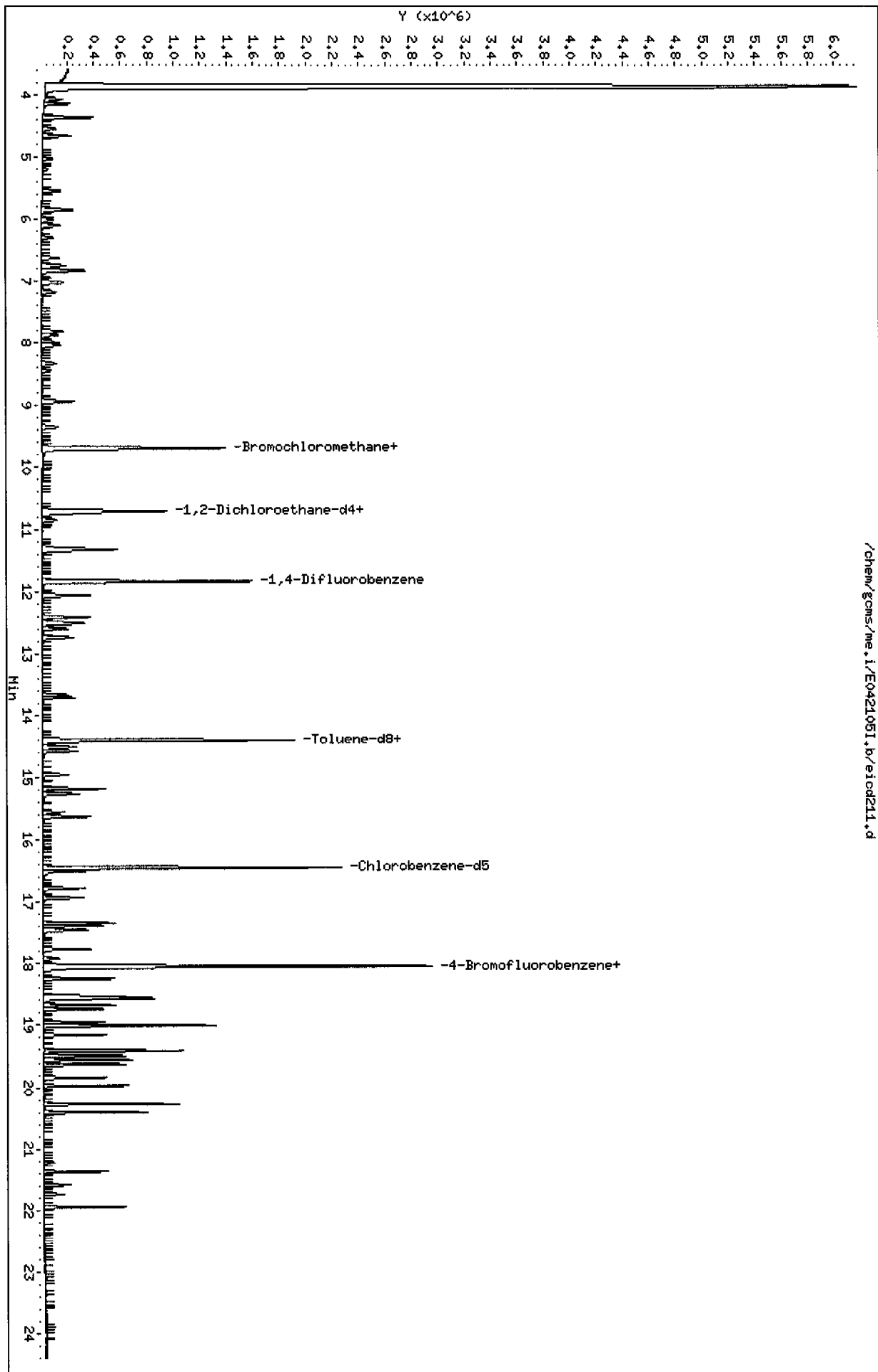
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
23 1,1-Dichloroethene	96	6.635	6.641	(0.685)	64359	1.00000	1.000
144 tert-butanol	59	6.754	6.743	(0.697)	187908	2.00000	2.000
24 Acrylonitrile	53	6.770	6.764	(0.699)	38398	2.00000	2.000
25 1,1,2-Trichlorotrifluoroethane	101	6.834	6.840	(0.705)	172187	1.00000	1.000
26 Methylene Chloride	84	7.012	7.017	(0.724)	63935	1.00000	1.000
27 3-Chloropropene	39	7.033	7.039	(0.726)	58924	1.00000	1.000
28 Carbon Disulfide	76	7.184	7.184	(0.741)	202932	1.00000	1.000
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	138707	1.00000	1.000
29 trans-1,2-Dichloroethene	96	7.878	7.883	(0.813)	62206	1.00000	1.000
30 Methyl-t-Butyl Ether	73	8.034	8.029	(0.829)	143812	2.00000	2.000
31 1,1-Dichloroethane	63	8.324	8.335	(0.859)	137398	1.00000	1.000
32 Vinyl Acetate	43	8.448	8.448	(0.872)	116637	2.00000	2.000
33 2-Butanone	72	8.932	8.927	(0.922)	25290	2.00000	2.000
34 Hexane	56	8.932	8.943	(0.922)	54704	1.00000	1.000
35 cis 1,2-Dichloroethene	96	9.352	9.357	(0.965)	71518	1.00000	1.000
36 Chloroform	83	9.702	9.707	(1.001)	170048	1.00000	1.000
37 1,1,1-Trichloroethane	97	10.751	10.745	(1.109)	155571	1.00000	1.000
38 1,2-Dichloroethane	62	10.858	10.853	(0.917)	110758	1.00000	1.000
40 1-Butanol	31	11.283	11.256	(0.953)	17777	2.00000	2.000
39 Benzene	78	11.321	11.316	(0.956)	188881	1.00000	1.000
41 Cyclohexane	69	11.326	11.316	(0.956)	25034	1.00000	1.000
42 Carbon Tetrachloride	117	11.342	11.332	(0.958)	185194	1.00000	1.000
145 2,2,4-trimethylpentane	57	12.069	12.058	(1.019)	321815	1.00000	1.000
43 Heptane	43	12.413	12.408	(1.048)	156114	1.00000	1.000
44 1,2-Dichloropropane	63	12.494	12.494	(1.055)	72400	1.00000	1.000
45 Trichloroethene	130	12.520	12.515	(1.057)	77933	1.00000	1.000
46 Dibromomethane	93	12.596	12.596	(1.064)	89712	1.00000	1.000
47 Bromodichloromethane	83	12.741	12.736	(1.076)	168595	1.00000	1.000
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	144160	2.00000	2.000
49 cis-1,3-Dichloropropene	75	13.709	13.704	(1.158)	129374	1.00000	1.000
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.874)	82398	1.00000	1.000
51 Toluene	91	14.511	14.511	(0.882)	190582	1.00000	1.000
52 1,1,2-Trichloroethane	97	14.575	14.581	(0.886)	87804	1.00000	1.000
53 2-Hexanone	58	14.952	14.952	(0.909)	55066	2.00000	2.000
54 Octane	85	15.183	15.178	(0.923)	58997	1.00000	1.000
55 Dibromochloromethane	129	15.264	15.264	(0.928)	161098	1.00000	1.000
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	114556	1.00000	1.000
57 Tetrachloroethene	129	15.630	15.630	(0.950)	77602	1.00000	1.000
58 Chlorobenzene	112	16.491	16.491	(1.003)	170481	1.00000	1.000
59 Ethylbenzene	91	16.776	16.776	(1.020)	236098	1.00000	1.000
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	188553	1.00000	1.000
62 Nonane	57	17.341	17.346	(1.054)	136074	1.00000	1.000
61 Bromoform	173	17.378	17.378	(1.057)	164932	1.00000	1.000
63 Styrene	104	17.389	17.394	(1.057)	133038	1.00000	1.000
64 o-Xylene	91	17.454	17.454	(1.061)	215309	1.00000	1.000
65 1,1,1,2-Tetrachloroethane	83	17.755	17.760	(1.079)	194827	1.00000	1.000
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.089)	19731	1.00000	1.000

Data File: /var/chem/gcms/me.i/E042105I.b/eicd211.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	=====	==	=====	=====	=====	=====	=====
67 Cumene	105	18.024	18.024	(1.096)	320133	1.00000	1.000
134 a-Pinene	93	18.244	18.244	(1.109)	175509	1.00000	1.000
68 n-Propylbenzene	120	18.529	18.530	(1.127)	93553	1.00000	1.000
135 Camphene	93	18.556	18.556	(1.128)	144938	1.00000	1.000
146 2-chlorotoluene	126	18.572	18.573	(1.129)	85624	1.00000	1.000
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	335002	1.00000	1.000
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.139)	117980	1.00000	1.000
71 Alpha-Methylstyrene	118	18.954	18.955	(1.152)	131814	1.00000	1.000
136 b-Pinene	93	18.997	18.998	(1.155)	184856	1.00000	1.000
72 Decane	57	19.008	19.008	(1.156)	258429	1.00000	1.000
73 1,2,4-Trimethylbenzene	105	19.153	19.154	(1.165)	244082	1.00000	1.000
141 sec-butylbenzene	105	19.406	19.406	(1.180)	397944	1.00000	1.000
74 1,3-Dichlorobenzene	146	19.412	19.417	(1.180)	206901	1.00000	1.000
75 Benzyl Chloride	91	19.482	19.487	(1.184)	160594	1.00000	1.000
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.185)	195539	1.00000	1.000
137 p-Cymene	119	19.557	19.557	(1.189)	326225	1.00000	1.000
138 d-Limonene	68	19.627	19.627	(1.193)	118374	1.00000	1.000
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.206)	185020	1.00000	1.000
142 n-butylbenzene	91	19.971	19.971	(1.214)	311778	1.00000	1.000
78 Undecane	57	20.267	20.273	(1.232)	263847	1.00000	1.000
139 4-tert-Butyltoluene	133	20.402	20.402	(1.240)	310984	1.00000	1.000
140 Camphor	95	21.219	21.214	(1.290)	15520	1.00000	
79 Dodecane	57	21.370	21.370	(1.299)	124048	1.00000	1.000
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.312)	59737	1.00000	1.000
81 Napthalene	128	21.736	21.736	(1.321)	110006	1.00000	1.000
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	105364	1.00000	1.000

Data File: /chem/gcms/me.i/E0421051.b/eicd211.d
Date : 21-APR-2005 15:51
Client ID: 1PPBV
Sample Info: IC1,,1,1,,1PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd218.d
Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd218.d
Lab Smp Id: IC8 Client Smp ID: 2.5PPBV
Inj Date : 21-APR-2005 16:26
Operator : 60487 Inst ID: me.i
Smp Info : IC8,,1,8,,2.5PPBV
Misc Info : E042105I,LA,,,24ML
Comment :
Method : /var/chem/gcms/me.i/E042105I.b/LA.m
Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
Cal Date : 21-APR-2005 16:26 Cal File: eicd218.d
Als bottle: 99 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	----	----	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128		9.685	9.691	(1.000)	353078	10.0000	
* 2 1,4-Difluorobenzene	114		11.837	11.832	(1.000)	1262989	10.0000	
* 3 Chlorobenzene-d5	117		16.442	16.442	(1.000)	1248912	10.0000	
\$ 4 1,2-Dichloroethane-d4	67		10.702	10.708	(0.904)	311532	10.0000	10.79
\$ 5 Toluene-d8	98		14.403	14.403	(0.876)	1177086	10.0000	9.991
\$ 6 4-Bromofluorobenzene	95		18.051	18.051	(1.098)	1014432	10.0000	10.22
7 Chlorodifluoromethane	51		4.069	4.075	(0.420)	479415	2.40000	2.716
8 Dichlorodifluoromethane	85		4.139	4.150	(0.427)	589284	2.40000	2.687
9 Chloromethane	52		4.354	4.360	(0.450)	55352	2.40000	2.723
10 1,2-Dichlorotetrafluoroethane	135		4.365	4.376	(0.451)	390719	2.40000	2.716
12 Methanol	31		4.537	4.532	(0.468)	74479	9.60000	9.878
11 Vinyl Chloride	62		4.553	4.564	(0.470)	163993	2.40000	2.756
13 1,3-Butadiene	54		4.661	4.666	(0.481)	128551	2.40000	2.746
14 n-Butane	43		4.661	4.666	(0.481)	297076	2.40000	2.692
15 Bromomethane	94		5.038	5.043	(0.520)	186819	2.40000	2.794
16 Chloroethane	64		5.199	5.210	(0.537)	80184	2.40000	2.728
143 Vinyl Bromide	106		5.543	5.554	(0.572)	357379	2.40000	2.781
17 Trichlorofluoromethane	101		5.850	5.861	(0.604)	679168	2.40000	2.704
18 Acrolein	56		5.877	5.877	(0.607)	27088	4.80000	4.037
19 Acetonitrile	40		5.963	5.957	(0.616)	35977	4.80000	3.972
20 Acetone	58		6.006	6.006	(0.620)	45032	4.80000	4.912
21 Pentane	57		6.108	6.108	(0.631)	44937	2.40000	2.648

Data File: /var/chem/gcms/me.i/E042105I.b/eicd218.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
*****	----	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.291	6.296	(0.650)	82320	4.80000	4.129
23 1,1-Dichloroethene	96	6.630	6.641	(0.685)	179009	2.40000	2.748
144 tert-butanol	59	6.743	6.743	(0.696)	531117	4.80000	4.954
24 Acrylonitrile	53	6.759	6.764	(0.698)	62915	4.80000	4.010
25 1,1,2-Trichlorotrifluoroethane	101	6.829	6.840	(0.705)	458048	2.40000	2.736
26 Methylene Chloride	84	7.006	7.017	(0.723)	159541	2.40000	2.531
27 3-Chloropropene	39	7.033	7.039	(0.726)	128887	2.40000	2.396
28 Carbon Disulfide	76	7.179	7.184	(0.741)	554389	2.40000	2.729
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	371651	2.40000	2.731
29 trans-1,2-Dichloroethene	96	7.873	7.883	(0.813)	170696	2.40000	2.766
30 Methyl-t-Butyl Ether	73	8.029	8.029	(0.829)	242559	4.80000	4.140
31 1,1-Dichloroethane	63	8.324	8.335	(0.859)	280494	2.40000	2.347
32 Vinyl Acetate	43	8.443	8.448	(0.872)	192782	4.80000	3.949
33 2-Butanone	72	8.922	8.927	(0.921)	43762	4.80000	4.166
34 Hexane	56	8.932	8.943	(0.922)	144142	2.40000	2.686
35 cis 1,2-Dichloroethene	96	9.347	9.357	(0.965)	153178	2.40000	2.378
36 Chloroform	83	9.696	9.707	(1.001)	309414	2.40000	2.343
37 1,1,1-Trichloroethane	97	10.745	10.745	(1.109)	338340	2.40000	2.478
38 1,2-Dichloroethane	62	10.847	10.853	(0.916)	202148	2.40000	2.314
40 1-Butanol	31	11.272	11.256	(0.952)	66994	4.80000	5.632
39 Benzene	78	11.315	11.316	(0.956)	357101	2.40000	2.289
41 Cyclohexane	69	11.321	11.316	(0.956)	75324	2.40000	3.002
42 Carbon Tetrachloride	117	11.337	11.332	(0.958)	512184	2.40000	2.800
145 2,2,4-trimethylpentane	57	12.058	12.058	(1.019)	762224	2.40000	2.536
43 Heptane	43	12.408	12.408	(1.048)	428618	2.40000	2.792
44 1,2-Dichloropropane	63	12.499	12.494	(1.056)	122433	2.40000	2.045
45 Trichloroethene	130	12.515	12.515	(1.057)	181492	2.40000	2.448
46 Dibromomethane	93	12.596	12.596	(1.064)	182906	2.40000	2.254
47 Bromodichloromethane	83	12.736	12.736	(1.076)	340170	2.40000	2.233
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	285402	4.80000	4.518
49 cis-1,3-Dichloropropene	75	13.704	13.704	(1.158)	243688	2.40000	2.211
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.875)	148603	2.40000	2.078
51 Toluene	91	14.511	14.511	(0.883)	335030	2.40000	2.108
52 1,1,2-Trichloroethane	97	14.575	14.581	(0.886)	149910	2.40000	2.030
53 2-Hexanone	58	14.952	14.952	(0.909)	110613	2.40000	3.988
54 Octane	85	15.178	15.178	(0.923)	131887	2.40000	2.466
55 Dibromochloromethane	129	15.264	15.264	(0.928)	315249	2.40000	2.208
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	206559	2.40000	2.094
57 Tetrachloroethene	129	15.630	15.630	(0.951)	173067	2.40000	2.353
58 Chlorobenzene	112	16.491	16.491	(1.003)	300243	2.40000	2.126
59 Ethylbenzene	91	16.776	16.776	(1.020)	425945	2.40000	2.184
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	339080	2.40000	2.199
62 Nonane	57	17.341	17.346	(1.055)	277319	2.40000	2.354
61 Bromoform	173	17.378	17.378	(1.057)	307973	2.40000	2.099
63 Styrene	104	17.389	17.394	(1.058)	249028	2.40000	2.178
64 o-Xylene	91	17.454	17.454	(1.062)	384418	2.40000	2.190
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	349266	2.40000	2.139

Data File: /var/chem/gcms/me.i/E042105I.b/eicd218.d
 Report Date: 22-Apr-2005 14:53

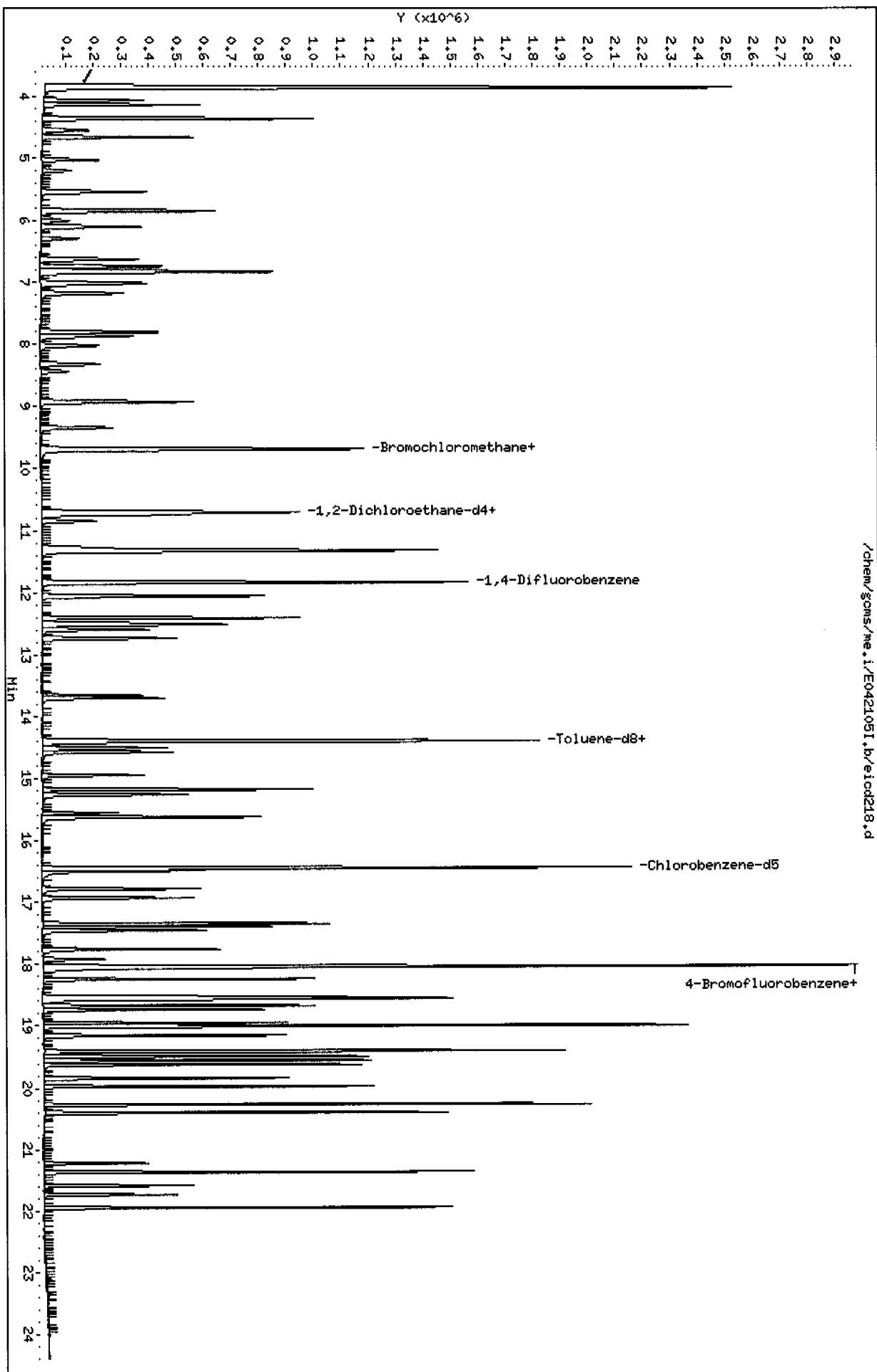
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.090)	35797	2.40000	2.175
67 Cumene	105	18.024	18.024	(1.096)	572159	2.40000	2.171
134 a-Pinene	93	18.244	18.244	(1.110)	334350	2.40000	2.248
68 n-Propylbenzene	120	18.529	18.530	(1.127)	167193	2.40000	2.175
135 Camphene	93	18.556	18.556	(1.129)	266332	2.40000	2.167
146 2-chlorotoluene	126	18.567	18.573	(1.129)	152506	2.40000	2.149
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	618541	2.40000	2.247
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.140)	210381	2.40000	2.211
71 Alpha-Methylstyrene	118	18.949	18.955	(1.152)	246364	2.40000	2.225
136 b-Pinene	93	18.998	18.998	(1.155)	335227	2.40000	2.206
72 Decane	57	19.008	19.008	(1.156)	479938	2.40000	2.293
73 1,2,4-Trimethylbenzene	105	19.154	19.154	(1.165)	450457	2.40000	2.262
141 sec-butylbenzene	105	19.401	19.406	(1.180)	745564	2.40000	2.296
74 1,3-Dichlorobenzene	146	19.412	19.417	(1.181)	380631	2.40000	2.133
75 Benzyl Chloride	91	19.482	19.487	(1.185)	320389	2.40000	2.143
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	369800	2.40000	2.179
137 p-Cymene	119	19.557	19.557	(1.189)	604167	2.40000	2.268
138 d-Limonene	68	19.627	19.627	(1.194)	223609	2.40000	2.267
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.207)	342618	2.40000	2.145
142 n-butylbenzene	91	19.971	19.971	(1.215)	597315	2.40000	2.319
78 Undecane	57	20.267	20.273	(1.233)	522688	2.40000	2.378
139 4-tert-Butyltoluene	133	20.402	20.402	(1.241)	597179	2.40000	2.293
140 Camphor	95	21.219	21.214	(1.291)	76354	2.40000	1.626
79 Dodecane	57	21.370	21.370	(1.300)	450822	2.40000	2.962
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	156601	2.40000	2.270
81 Napthalene	128	21.736	21.736	(1.322)	336031	2.40000	2.429
82 Hexachlorobutadiene	225	21.946	21.951	(1.335)	247705	2.40000	2.289 (H) 

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/gcms/me.i/E0421051.b/eicd218.d
Date: 21-APR-2005 16:26
Client ID: 2.SPPBV
Sample Info: IC8,1,8,,2.SPPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd212.d
 Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/me.i/E042105I.b/eicd212.d
 Lab Smp Id: IC2 Client Smp ID: 5PPBV
 Inj Date : 21-APR-2005 17:02
 Operator : 60487 Inst ID: me.i
 Smp Info : IC2,,1,2,,5PPBV
 Misc Info : E042105I,LA,,,50ML
 Comment :
 Method : /var/chem/gcms/me.i/E042105I.b/LA.m
 Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
 Cal Date : 21-APR-2005 17:02 Cal File: eicd212.d
 Als bottle: 99 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.691	9.691	(1.000)	381730	10.0000	
* 2 1,4-Difluorobenzene	114	11.837	11.832	(1.000)	1308223	10.0000	
* 3 Chlorobenzene-d5	117	16.442	16.442	(1.000)	1276528	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.702	10.708	(0.904)	229367	10.0000	8.373
\$ 5 Toluene-d8	98	14.398	14.403	(0.876)	1211923	10.0000	10.16
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.098)	1062908	10.0000	10.36
7 Chlorodifluoromethane	51	4.069	4.075	(0.420)	873384	5.00000	4.942
8 Dichlorodifluoromethane	85	4.144	4.150	(0.428)	1092540	5.00000	5.003
9 Chloromethane	52	4.360	4.360	(0.450)	91267	5.00000	4.492
10 1,2-Dichlorotetrafluoroethane	135	4.370	4.376	(0.451)	698129	5.00000	4.782
12 Methanol	31	4.532	4.532	(0.468)	130091	20.0000	15.72
11 Vinyl Chloride	62	4.559	4.564	(0.470)	292496	5.00000	4.801
13 1,3-Butadiene	54	4.666	4.666	(0.482)	226125	5.00000	4.830
14 n-Butane	43	4.661	4.666	(0.481)	519908	5.00000	4.613
15 Bromomethane	94	5.037	5.043	(0.520)	323813	5.00000	4.826
16 Chloroethane	64	5.204	5.210	(0.537)	142549	5.00000	4.839
143 Vinyl Bromide	106	5.549	5.554	(0.573)	636897	5.00000	4.846
17 Trichlorofluoromethane	101	5.855	5.861	(0.604)	1166535	5.00000	4.649
18 Acrolein	56	5.877	5.877	(0.606)	53057	10.0000	7.520
19 Acetonitrile	40	5.952	5.957	(0.614)	62902	10.0000	7.398
20 Acetone	58	6.006	6.006	(0.620)	81174	10.0000	10.00
21 Pentane	57	6.103	6.108	(0.630)	81239	5.00000	4.703

Data File: /var/chem/gcms/me.i/E042105I.b/eicd212.d
Report Date: 22-Apr-2005 14:53

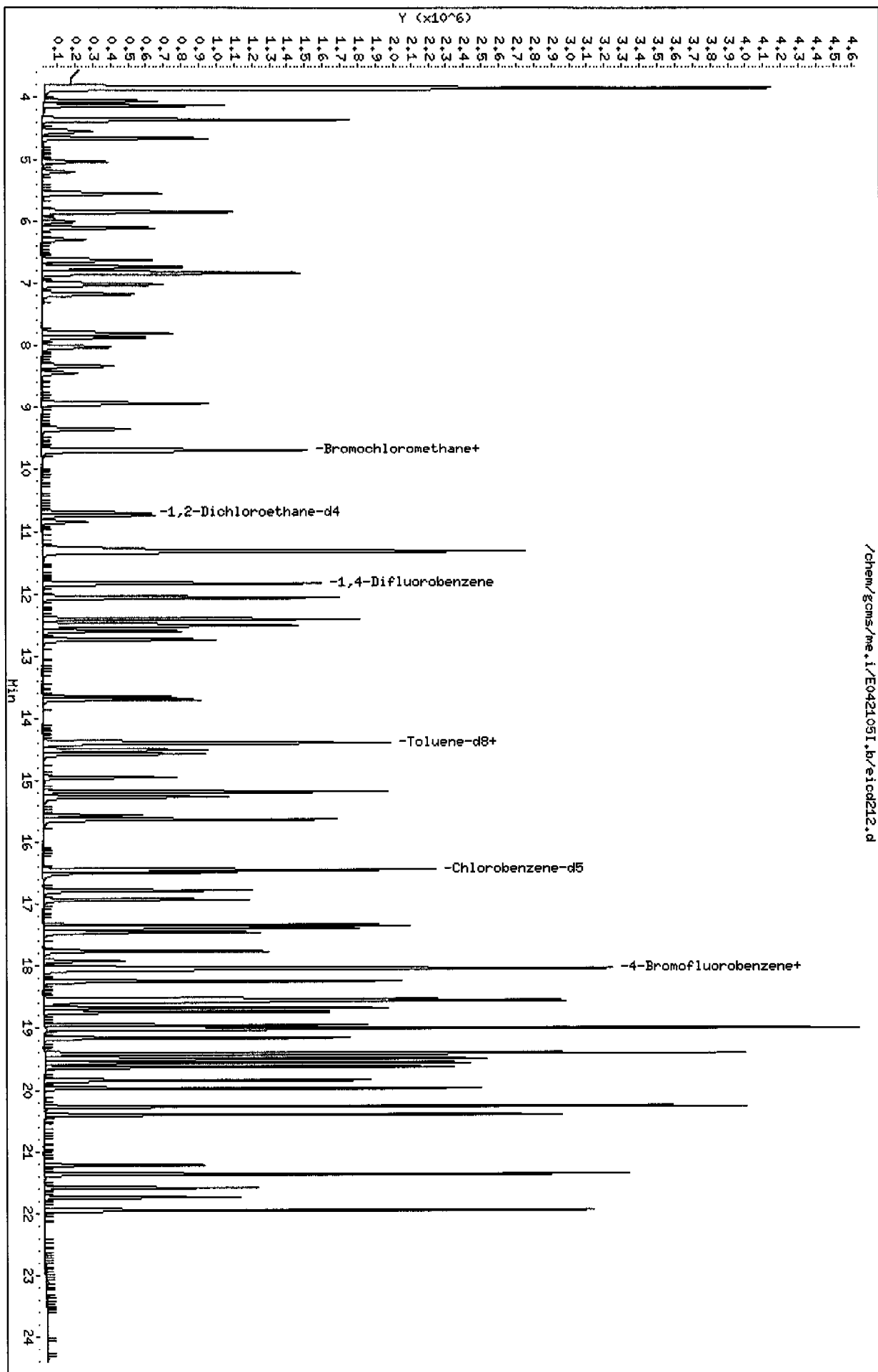
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.291	6.296	(0.649)	152758	10.0000	7.476
23 1,1-Dichloroethene	96	6.630	6.641	(0.684)	320101	5.00000	4.889
144 tert-butanol	59	6.743	6.743	(0.696)	982398	10.0000	10.03
24 Acrylonitrile	53	6.764	6.764	(0.698)	126048	10.0000	7.740
25 1,1,2-Trichlorotrifluoroethane	101	6.834	6.840	(0.705)	801117	5.00000	4.722
26 Methylene Chloride	84	7.012	7.017	(0.724)	286003	5.00000	4.624
27 3-Chloropropene	39	7.033	7.039	(0.726)	239016	5.00000	4.382
28 Carbon Disulfide	76	7.184	7.184	(0.741)	999155	5.00000	4.863
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	652932	5.00000	4.751
29 trans-1,2-Dichloroethene	96	7.878	7.883	(0.813)	304866	5.00000	4.852
30 Methyl-t-Butyl Ether	73	8.029	8.029	(0.828)	466546	10.0000	7.684
31 1,1-Dichloroethane	63	8.330	8.335	(0.860)	520900	5.00000	4.216
32 Vinyl Acetate	43	8.448	8.448	(0.872)	373907	10.0000	7.627
33 2-Butanone	72	8.922	8.927	(0.921)	79999	10.0000	7.565
34 Hexane	56	8.938	8.943	(0.922)	258419	5.00000	4.760
35 cis 1,2-Dichloroethene	96	9.352	9.357	(0.965)	295719	5.00000	4.429
36 Chloroform	83	9.702	9.707	(1.001)	597956	5.00000	4.034
37 1,1,1-Trichloroethane	97	10.740	10.745	(1.108)	515530	5.00000	3.892
38 1,2-Dichloroethane	62	10.847	10.853	(0.916)	273092	5.00000	3.280
40 1-Butanol	31	11.267	11.256	(0.952)	142264	10.0000	12.26
39 Benzene	78	11.315	11.316	(0.956)	710780	5.00000	4.270
41 Cyclohexane	69	11.315	11.316	(0.956)	143208	5.00000	5.311
42 Carbon Tetrachloride	117	11.332	11.332	(0.957)	978848	5.00000	5.114
145 2,2,4-trimethylpentane	57	12.058	12.058	(1.019)	1605830	5.00000	4.970
43 Heptane	43	12.407	12.408	(1.048)	851199	5.00000	5.191
44 1,2-Dichloropropane	63	12.499	12.494	(1.056)	252866	5.00000	4.088
45 Trichloroethene	130	12.515	12.515	(1.057)	378294	5.00000	4.901
46 Dibromomethane	93	12.596	12.596	(1.064)	360594	5.00000	4.431
47 Bromodichloromethane	83	12.736	12.736	(1.076)	682851	5.00000	4.450
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	603008	10.0000	9.060
49 cis-1,3-Dichloropropene	75	13.704	13.704	(1.158)	497137	5.00000	4.321
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.875)	306170	5.00000	4.362
51 Toluene	91	14.511	14.511	(0.883)	682077	5.00000	4.270
52 1,1,2-Trichloroethane	97	14.575	14.581	(0.886)	295258	5.00000	4.118
53 2-Hexanone	58	14.952	14.952	(0.909)	237293	10.0000	9.458
54 Octane	85	15.178	15.178	(0.923)	268560	5.00000	4.866
55 Dibromochloromethane	129	15.264	15.264	(0.928)	621206	5.00000	4.453
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	419124	5.00000	4.324
57 Tetrachloroethene	129	15.630	15.630	(0.951)	368122	5.00000	4.969
58 Chlorobenzene	112	16.491	16.491	(1.003)	588464	5.00000	4.182
59 Ethylbenzene	91	16.776	16.776	(1.020)	877538	5.00000	4.363
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	709804	5.00000	4.394
62 Nonane	57	17.341	17.346	(1.055)	573457	5.00000	4.674
61 Bromoform	173	17.378	17.378	(1.057)	649243	5.00000	4.504
63 Styrene	104	17.394	17.394	(1.058)	520036	5.00000	4.487
64 o-Xylene	91	17.454	17.454	(1.062)	779468	5.00000	4.298
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	684509	5.00000	4.225

Data File: /var/chem/gcms/me.i/E042105I.b/eicd212.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.090)	69258	5.00000	4.222
67 Cumene	105	18.024	18.024	(1.096)	1175359	5.00000	4.332
134 a-Pinene	93	18.244	18.244	(1.110)	693757	5.00000	4.514
68 n-Propylbenzene	120	18.529	18.530	(1.127)	349878	5.00000	4.378
135 Camphene	93	18.556	18.556	(1.129)	544445	5.00000	4.389
146 2-chlorotoluene	126	18.572	18.573	(1.130)	307959	5.00000	4.282
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	1265920	5.00000	4.403
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.140)	417621	5.00000	4.243
71 Alpha-Methylstyrene	118	18.949	18.955	(1.152)	521117	5.00000	4.515
136 b-Pinene	93	18.997	18.998	(1.155)	677918	5.00000	4.330
72 Decane	57	19.008	19.008	(1.156)	974778	5.00000	4.399
73 1,2,4-Trimethylbenzene	105	19.153	19.154	(1.165)	921495	5.00000	4.401
141 sec-butylbenzene	105	19.401	19.406	(1.180)	1538351	5.00000	4.459
74 1,3-Dichlorobenzene	146	19.412	19.417	(1.181)	786502	5.00000	4.418
75 Benzyl Chloride	91	19.482	19.487	(1.185)	705022	5.00000	4.775
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	752528	5.00000	4.448
137 p-Cymene	119	19.557	19.557	(1.189)	1233600	5.00000	4.405
138 d-Limonene	68	19.627	19.627	(1.194)	457425	5.00000	4.458
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.207)	699349	5.00000	4.404
142 n-butylbenzene	91	19.971	19.971	(1.215)	1226855	5.00000	4.503
78 Undecane	57	20.267	20.273	(1.233)	1080881	5.00000	4.603
139 4-tert-Butyltoluene	133	20.402	20.402	(1.241)	1228197	5.00000	4.512
140 Camphor	95	21.219	21.214	(1.291)	198605	5.00000	5.000
79 Dodecane	57	21.364	21.370	(1.299)	994701	5.00000	6.254
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	362702	5.00000	5.583
81 Napthalene	128	21.736	21.736	(1.322)	804707	5.00000	6.036
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	519541	5.00000	5.066

Data File: /chem/gcms/me.i/E0421051.b/eicd212.d
Date : 21-APR-2005 17:02
Client ID: SPPBV
Sample Info: IC2,1,2,,SPPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd213.d
 Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd213.d
 Lab Smp Id: IC3 Client Smp ID: 10PPBV
 Inj Date : 21-APR-2005 17:39
 Operator : 60487 Inst ID: me.i
 Smp Info : IC3,,1,3,,10PPBV
 Misc Info : E042105I,LA,,,100ML
 Comment :
 Method : /var/chem/gcms/me.i/E042105I.b/LA.m
 Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
 Cal Date : 21-APR-2005 17:39 Cal File: eicd213.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL (ppb(v/v)) (ppb(v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.691	9.691	(1.000)	372468	10.0000	
* 2 1,4-Difluorobenzene	114	11.832	11.832	(1.000)	1414048	10.0000	
* 3 Chlorobenzene-d5	117	16.442	16.442	(1.000)	1358590	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.905)	239021	10.0000	7.525
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1319773	10.0000	10.33
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.098)	1128925	10.0000	10.55
7 Chlorodifluoromethane	51	4.075	4.075	(0.420)	1900256	10.0000	10.57
8 Dichlorodifluoromethane	85	4.150	4.150	(0.428)	2392150	10.0000	10.78
9 Chloromethane	52	4.360	4.360	(0.450)	176198	10.0000	8.148
10 1,2-Dichlorotetrafluoroethane	135	4.376	4.376	(0.452)	1371832	10.0000	9.120
12 Methanol	31	4.532	4.532	(0.468)	296000	40.0000	38.06
11 Vinyl Chloride	62	4.564	4.564	(0.471)	581171	10.0000	9.390
13 1,3-Butadiene	54	4.666	4.666	(0.482)	454014	10.0000	9.306
14 n-Butane	43	4.666	4.666	(0.482)	1002766	10.0000	8.575
15 Bromomethane	94	5.043	5.043	(0.520)	646824	10.0000	9.271
16 Chloroethane	64	5.210	5.210	(0.538)	284013	10.0000	9.257
143 Vinyl Bromide	106	5.554	5.554	(0.573)	1267960	10.0000	9.478
17 Trichlorofluoromethane	101	5.861	5.861	(0.605)	2252199	10.0000	8.423
18 Acrolein	56	5.877	5.877	(0.606)	128326	20.0000	18.57
19 Acetonitrile	40	5.957	5.957	(0.615)	153944	20.0000	16.08
20 Acetone	58	6.006	6.006	(0.620)	194441	20.0000	21.78
21 Pentane	57	6.108	6.108	(0.630)	158497	10.0000	8.918

Data File: /var/chem/gcms/me.i/E042105I.b/eicd213.d
Report Date: 22-Apr-2005 14:53

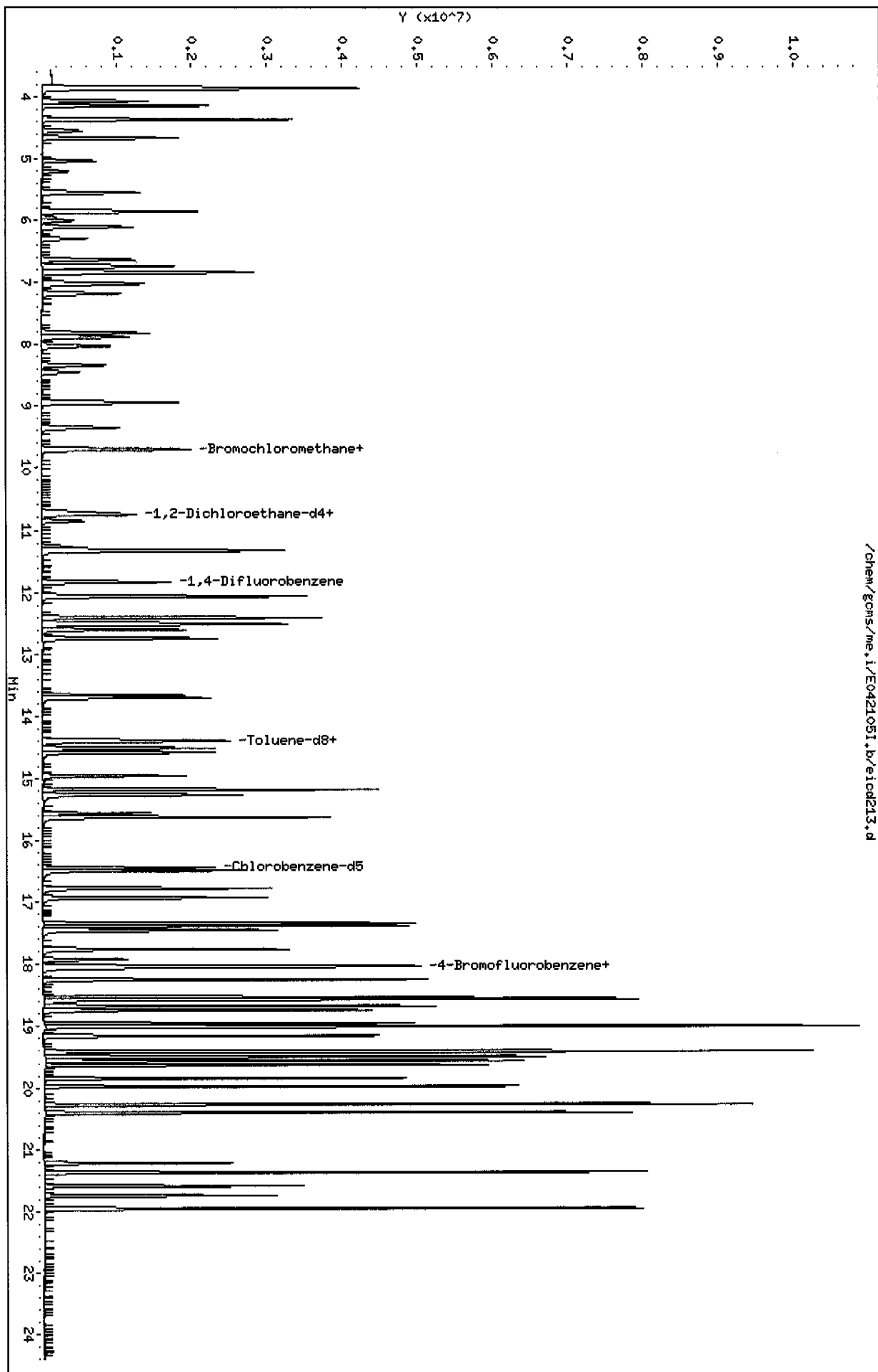
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.296	6.296	(0.650)	363303	20.0000	17.37
23 1,1-Dichloroethene	96	6.641	6.641	(0.685)	640303	10.0000	9.429
144 tert-butanol	59	6.743	6.743	(0.696)	2202670	20.0000	20.02
24 Acrylonitrile	53	6.764	6.764	(0.698)	294705	20.0000	18.15
25 1,1,2-Trichlorotrifluoroethane	101	6.840	6.840	(0.706)	1556557	10.0000	8.818
26 Methylene Chloride	84	7.017	7.017	(0.724)	570285	10.0000	8.545
27 3-Chloropropene	39	7.039	7.039	(0.726)	486345	10.0000	8.520
28 Carbon Disulfide	76	7.184	7.184	(0.741)	2004605	10.0000	9.445
133 2,3-Dimethyl butane	43	7.813	7.813	(0.806)	1276495	10.0000	8.903
29 trans-1,2-Dichloroethene	96	7.883	7.883	(0.813)	617607	10.0000	9.624
30 Methyl-t-Butyl Ether	73	8.029	8.029	(0.828)	1141539	20.0000	18.93
31 1,1-Dichloroethane	63	8.335	8.335	(0.860)	1106570	10.0000	8.808
32 Vinyl Acetate	43	8.448	8.448	(0.872)	951419	20.0000	18.93
33 2-Butanone	72	8.927	8.927	(0.921)	195645	20.0000	17.95
34 Hexane	56	8.943	8.943	(0.923)	510349	10.0000	9.058
35 cis 1,2-Dichloroethene	96	9.357	9.357	(0.966)	620809	10.0000	9.251
36 Chloroform	83	9.707	9.707	(1.002)	1196106	10.0000	8.562
37 1,1,1-Trichloroethane	97	10.745	10.745	(1.109)	1071707	10.0000	7.779
38 1,2-Dichloroethane	62	10.853	10.853	(0.917)	614179	10.0000	6.446
40 1-Butanol	31	11.256	11.256	(0.951)	114820	20.0000	9.525
39 Benzene	78	11.316	11.316	(0.956)	1192019	10.0000	6.995
41 Cyclohexane	69	11.316	11.316	(0.956)	212753	10.0000	7.912
42 Carbon Tetrachloride	117	11.332	11.332	(0.958)	1272553	10.0000	6.418
145 2,2,4-trimethylpentane	57	12.058	12.058	(1.019)	3430989	10.0000	10.48
43 Heptane	43	12.408	12.408	(1.049)	1818090	10.0000	10.92
44 1,2-Dichloropropane	63	12.494	12.494	(1.056)	632330	10.0000	9.658
45 Trichloroethene	130	12.515	12.515	(1.058)	830493	10.0000	10.28
46 Dibromomethane	93	12.596	12.596	(1.065)	851226	10.0000	9.536
47 Bromodichloromethane	83	12.736	12.736	(1.076)	1603976	10.0000	9.580
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.155)	1535722	20.0000	22.88
49 cis-1,3-Dichloropropene	75	13.704	13.704	(1.158)	1240236	10.0000	10.48
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.875)	797180	10.0000	10.69
51 Toluene	91	14.511	14.511	(0.883)	1747128	10.0000	10.49
52 1,1,2-Trichloroethane	97	14.581	14.581	(0.887)	739735	10.0000	9.371
53 2-Hexanone	58	14.952	14.952	(0.909)	634792	20.0000	25.85
54 Octane	85	15.178	15.178	(0.923)	654596	10.0000	11.97
55 Dibromochloromethane	129	15.264	15.264	(0.928)	1552260	10.0000	10.38
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	1076390	10.0000	10.41
57 Tetrachloroethene	129	15.630	15.630	(0.951)	826523	10.0000	10.69
58 Chlorobenzene	112	16.491	16.491	(1.003)	1461888	10.0000	9.750
59 Ethylbenzene	91	16.776	16.776	(1.020)	2349529	10.0000	11.74
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	1893857	10.0000	12.04
62 Nonane	57	17.346	17.346	(1.055)	1487056	10.0000	12.34
61 Bromoform	173	17.378	17.378	(1.057)	1715768	10.0000	11.34
63 Styrene	104	17.394	17.394	(1.058)	1413502	10.0000	12.18
64 o-Xylene	91	17.454	17.454	(1.062)	2038682	10.0000	11.21
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	1740016	10.0000	10.06

Data File: /var/chem/gcms/me.i/E042105I.b/eicd213.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.922	17.922	(1.090)	177272	10.0000	10.25
67 Cumene	105	18.024	18.024	(1.096)	3135485	10.0000	11.49
134 a-Pinene	93	18.244	18.244	(1.110)	1815596	10.0000	11.90
68 n-Propylbenzene	120	18.530	18.530	(1.127)	955131	10.0000	12.24
135 Camphene	93	18.556	18.556	(1.129)	1464916	10.0000	11.54
146 2-chlorotoluene	126	18.573	18.573	(1.130)	813660	10.0000	11.01
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	3373167	10.0000	11.89
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.140)	1131154	10.0000	11.55
71 Alpha-Methylstyrene	118	18.955	18.955	(1.153)	1421296	10.0000	12.73
136 b-Pinene	93	18.998	18.998	(1.155)	1786877	10.0000	11.27
72 Decane	57	19.008	19.008	(1.156)	2399202	10.0000	10.79
73 1,2,4-Trimethylbenzene	105	19.154	19.154	(1.165)	2440714	10.0000	11.98
141 sec-butylbenzene	105	19.406	19.406	(1.180)	4075345	10.0000	12.08
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	2081956	10.0000	11.21
75 Benzyl Chloride	91	19.487	19.487	(1.185)	1995431	10.0000	13.32
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	2000720	10.0000	11.40
137 p-Cymene	119	19.557	19.557	(1.189)	3278436	10.0000	11.94
138 d-Limonene	68	19.627	19.627	(1.194)	1212440	10.0000	11.99
77 1,2-Dichlorobenzene	146	19.848	19.848	(1.207)	1868494	10.0000	11.31
142 n-butylbenzene	91	19.971	19.971	(1.215)	3246976	10.0000	12.21
78 Undecane	57	20.273	20.273	(1.233)	2799301	10.0000	12.25
139 4-tert-Butyltoluene	133	20.402	20.402	(1.241)	3378984	10.0000	12.69
140 Camphor	95	21.214	21.214	(1.290)	576748	10.0000	11.54
79 Dodecane	57	21.370	21.370	(1.300)	2406723	10.0000	15.36
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	1012146	10.0000	14.84
81 Napthalene	128	21.736	21.736	(1.322)	2242018	10.0000	16.78
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	1410189	10.0000	12.65

Data File: /chem/gcms/me.i/E0421051.b/eicd213.d
Date : 21-APR-2005 17:39
Client ID: 10PPBV
Sample Info: IC3,1,3,10PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd214.d
 Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd214.d
 Lab Smp Id: IC4 Client Smp ID: 15PPBV
 Inj Date : 21-APR-2005 18:15
 Operator : 60487 Inst ID: me.i
 Smp Info : IC4,,1,4,,15PPBV
 Misc Info : E042105I,LA,,150ML
 Comment :
 Method : /var/chem/gcms/me.i/E042105I.b/LA.m
 Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
 Cal Date : 21-APR-2005 18:15 Cal File: eicd214.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	----	--	-----	-----	-----	-----	-----
* 1 Bromochloromethane	128	9.691	9.691	(1.000)	353817	10.0000	
* 2 1,4-Difluorobenzene	114	11.837	11.832	(1.000)	1445417	10.0000	
* 3 Chlorobenzene-d5	117	16.448	16.442	(1.000)	1415721	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.905)	365273	10.0000	11.05
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1359636	10.0000	10.18
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	1184324	10.0000	10.53
7 Chlorodifluoromethane	51	4.075	4.075	(0.420)	2967804	15.0000	16.99
8 Dichlorodifluoromethane	85	4.150	4.150	(0.428)	3812939	15.0000	17.57
9 Chloromethane	52	4.360	4.360	(0.450)	263248	15.0000	13.09
10 1,2-Dichlorotetrafluoroethane	135	4.371	4.376	(0.451)	2090163	15.0000	14.68
12 Methanol	31	4.527	4.532	(0.467)	457952	60.0000	61.58
11 Vinyl Chloride	62	4.559	4.564	(0.470)	889261	15.0000	15.11
13 1,3-Butadiene	54	4.666	4.666	(0.482)	692641	15.0000	14.95
14 n-Butane	43	4.666	4.666	(0.482)	1470768	15.0000	13.47
15 Bromomethane	94	5.038	5.043	(0.520)	982093	15.0000	14.84
16 Chloroethane	64	5.204	5.210	(0.537)	431205	15.0000	14.82
143 Vinyl Bromide	106	5.549	5.554	(0.573)	1911446	15.0000	15.04
17 Trichlorofluoromethane	101	5.855	5.861	(0.604)	3244451	15.0000	13.05
18 Acrolein	56	5.871	5.877	(0.606)	217574	30.0000	32.66
19 Acetonitrile	40	5.952	5.957	(0.614)	252542	30.0000	28.08
20 Acetone	58	6.001	6.006	(0.619)	317704	30.0000	35.27
21 Pentane	57	6.108	6.108	(0.630)	244704	15.0000	14.56

Data File: /var/chem/gcms/me.i/E042105I.b/eicd214.d
Report Date: 22-Apr-2005 14:53

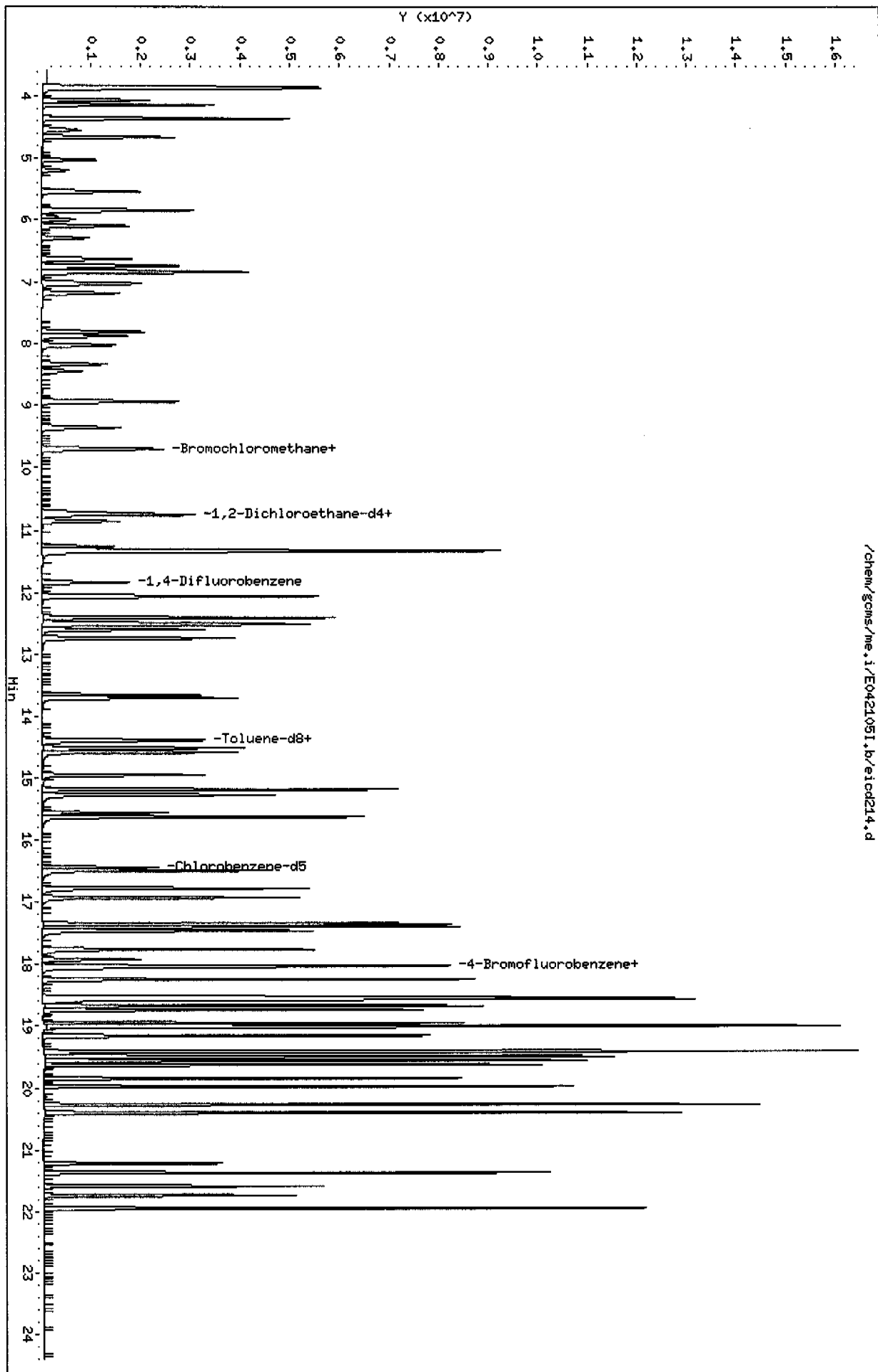
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.291	6.296	(0.649)	578713	30.0000	29.24
23 1,1-Dichloroethene	96	6.635	6.641	(0.685)	962727	15.0000	14.94
144 tert-butanol	59	6.743	6.743	(0.696)	3495584	30.0000	32.91
24 Acrylonitrile	53	6.764	6.764	(0.698)	494378	30.0000	31.74
25 1,1,2-Trichlorotrifluoroethane	101	6.834	6.840	(0.705)	2302113	15.0000	13.90
26 Methylene Chloride	84	7.012	7.017	(0.724)	849024	15.0000	13.60
27 3-Chloropropene	39	7.033	7.039	(0.726)	717947	15.0000	13.46
28 Carbon Disulfide	76	7.179	7.184	(0.741)	2962308	15.0000	14.74
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	1881180	15.0000	13.97
29 trans-1,2-Dichloroethene	96	7.878	7.883	(0.813)	923887	15.0000	15.13
30 Methyl-t-Butyl Ether	73	8.029	8.029	(0.828)	1905206	30.0000	32.76
31 1,1-Dichloroethane	63	8.330	8.335	(0.860)	1699094	15.0000	14.34
32 Vinyl Acetate	43	8.448	8.448	(0.872)	1586330	30.0000	32.73
33 2-Butanone	72	8.922	8.927	(0.921)	326197	30.0000	31.29
34 Hexane	56	8.938	8.943	(0.922)	759912	15.0000	14.31
35 cis 1,2-Dichloroethene	96	9.352	9.357	(0.965)	964969	15.0000	15.12
36 Chloroform	83	9.707	9.707	(1.002)	1802473	15.0000	13.77
37 1,1,1-Trichloroethane	97	10.751	10.745	(1.109)	2423293	15.0000	17.92
38 1,2-Dichloroethane	62	10.853	10.853	(0.917)	1618216	15.0000	16.36
40 1-Butanol	31	11.262	11.256	(0.951)	603996	30.0000	44.95
39 Benzene	78	11.321	11.316	(0.956)	2870271	15.0000	16.25
41 Cyclohexane	69	11.321	11.316	(0.956)	500182	15.0000	17.66
42 Carbon Tetrachloride	117	11.342	11.332	(0.958)	3458638	15.0000	16.74
145 2,2,4-trimethylpentane	57	12.063	12.058	(1.019)	5577031	15.0000	16.40
43 Heptane	43	12.413	12.408	(1.049)	2893975	15.0000	16.68
44 1,2-Dichloropropane	63	12.499	12.494	(1.056)	1103619	15.0000	16.26
45 Trichloroethene	130	12.521	12.515	(1.058)	1376474	15.0000	16.40
46 Dibromomethane	93	12.601	12.596	(1.065)	1437481	15.0000	15.64
47 Bromodichloromethane	83	12.741	12.736	(1.076)	2713581	15.0000	15.73
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	2677518	30.0000	37.42
49 cis-1,3-Dichloropropene	75	13.709	13.704	(1.158)	2224772	15.0000	17.82
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.874)	1436048	15.0000	17.88
51 Toluene	91	14.516	14.511	(0.883)	3110013	15.0000	17.43
52 1,1,2-Trichloroethane	97	14.581	14.581	(0.886)	1303355	15.0000	15.72
53 2-Hexanone	58	14.952	14.952	(0.909)	1151598	30.0000	42.00
54 Octane	85	15.183	15.178	(0.923)	1165099	15.0000	19.44
55 Dibromochloromethane	129	15.270	15.264	(0.928)	2794626	15.0000	17.44
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	1934574	15.0000	17.47
57 Tetrachloroethene	129	15.630	15.630	(0.950)	1407246	15.0000	17.06
58 Chlorobenzene	112	16.491	16.491	(1.003)	2585234	15.0000	16.31
59 Ethylbenzene	91	16.776	16.776	(1.020)	4212165	15.0000	19.25
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	3422124	15.0000	19.78
62 Nonane	57	17.346	17.346	(1.055)	2568400	15.0000	19.44
61 Bromoform	173	17.378	17.378	(1.057)	3105621	15.0000	18.86
63 Styrene	104	17.394	17.394	(1.058)	2590665	15.0000	20.19
64 o-Xylene	91	17.459	17.454	(1.061)	3628976	15.0000	18.42
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	3032296	15.0000	16.54

Data File: /var/chem/gcms/me.i/E042105I.b/eicd214.d
 Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.089)	318228	15.0000	17.22
67 Cumene	105	18.024	18.024	(1.096)	5469274	15.0000	18.49
134 a-Pinene	93	18.244	18.244	(1.109)	3218640	15.0000	19.28
68 n-Propylbenzene	120	18.530	18.530	(1.127)	1739254	15.0000	20.16
135 Camphene	93	18.556	18.556	(1.128)	2575367	15.0000	18.67
146 2-chlorotoluene	126	18.573	18.573	(1.129)	1435209	15.0000	18.02
69 4-Ethyltoluene	105	18.669	18.669	(1.135)	5812004	15.0000	18.82
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.139)	2020667	15.0000	18.93
71 Alpha-Methylstyrene	118	18.949	18.955	(1.152)	2574111	15.0000	20.72
136 b-Pinene	93	18.998	18.998	(1.155)	3033093	15.0000	17.79
72 Decane	57	19.008	19.008	(1.156)	3794513	15.0000	16.16
73 1,2,4-Trimethylbenzene	105	19.154	19.154	(1.165)	4344099	15.0000	19.45
141 sec-butylbenzene	105	19.406	19.406	(1.180)	6591852	15.0000	18.10
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	3620831	15.0000	18.07
75 Benzyl Chloride	91	19.487	19.487	(1.185)	3567012	15.0000	21.26
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.185)	3538812	15.0000	18.58
137 p-Cymene	119	19.557	19.557	(1.189)	5632486	15.0000	18.85
138 d-Limonene	68	19.627	19.627	(1.193)	2131897	15.0000	19.27
77 1,2-Dichlorobenzene	146	19.848	19.848	(1.207)	3333421	15.0000	18.59
142 n-butylbenzene	91	19.971	19.971	(1.214)	5397172	15.0000	18.68
78 Undecane	57	20.267	20.273	(1.232)	4436633	15.0000	18.00
139 4-tert-Butyltoluene	133	20.402	20.402	(1.240)	5699602	15.0000	19.51
140 Camphor	95	21.214	21.214	(1.290)	832643	15.0000	15.64
79 Dodecane	57	21.370	21.370	(1.299)	3177768	15.0000	18.67
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.312)	1731544	15.0000	22.38
81 Napthalene	128	21.736	21.736	(1.321)	3757187	15.0000	24.23
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	2288555	15.0000	18.85

Data File: /chem/gcms/me.i/E0421051.b/eicd214.d
Date : 21-APR-2005 18:15
Client ID: 15PPBV
Sample Info: IC4,1,4,,15PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicd215.d
 Report Date: 22-Apr-2005 14:53

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicd215.d
 Lab Smp Id: IC5 Client Smp ID: 30PPBV
 Inj Date : 21-APR-2005 18:53
 Operator : 60487 Inst ID: me.i
 Smp Info : IC5,,1,5,,30PPBV
 Misc Info : E042105I,LA,,,300ML
 Comment :
 Method : /var/chem/gcms/me.i/E042105I.b/LA.m
 Meth Date : 22-Apr-2005 14:52 wilesd Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ppb (v/v))	(ppb (v/v))
=====		=====	==	=====	=====	=====	=====	=====
*	1 Bromochloromethane	128	9.707	9.691	(1.000)	501384	10.0000	
*	2 1,4-Difluorobenzene	114	11.848	11.832	(1.000)	1666328	10.0000	
*	3 Chlorobenzene-d5	117	16.448	16.442	(1.000)	1678173	10.0000	
\$	4 1,2-Dichloroethane-d4	67	10.724	10.708	(0.905)	397882	10.0000	10.39
\$	5 Toluene-d8	98	14.409	14.403	(0.876)	1617719	10.0000	10.19
\$	6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	1378035	10.0000	10.29
	7 Chlorodifluoromethane	51	4.080	4.075	(0.420)	5713989	30.0000	23.50
	8 Dichlorodifluoromethane	85	4.161	4.150	(0.429)	7236498	30.0000	23.91
	9 Chloromethane	52	4.370	4.360	(0.450)	514461	30.0000	18.78
	10 1,2-Dichlorotetrafluoroethane	135	4.381	4.376	(0.451)	4068541	30.0000	20.79
	12 Methanol	31	4.532	4.532	(0.467)	844437	120.000	83.64
	11 Vinyl Chloride	62	4.569	4.564	(0.471)	1746157	30.0000	21.50
	13 1,3-Butadiene	54	4.672	4.666	(0.481)	1331925	30.0000	20.90
	14 n-Butane	43	4.672	4.666	(0.481)	2768454	30.0000	18.62
	15 Bromomethane	94	5.048	5.043	(0.520)	1914826	30.0000	21.02
	16 Chloroethane	64	5.215	5.210	(0.537)	850914	30.0000	21.24
	143 Vinyl Bromide	106	5.559	5.554	(0.573)	3682557	30.0000	21.04
	17 Trichlorofluoromethane	101	5.866	5.861	(0.604)	5991892	30.0000	17.77
	18 Acrolein	56	5.882	5.877	(0.606)	488733	60.0000	52.24
	19 Acetonitrile	40	5.963	5.957	(0.614)	543934	60.0000	43.90
	20 Acetone	58	6.017	6.006	(0.620)	693557	60.0000	54.49
	21 Pentane	57	6.119	6.108	(0.630)	470381	30.0000	20.41

Data File: /var/chem/gcms/me.i/E042105I.b/eicd215.d
Report Date: 22-Apr-2005 14:53

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.302	6.296	(0.649)	1241630	60.0000	45.39
23 1,1-Dichloroethene	96	6.646	6.641	(0.685)	1910682	30.0000	21.49
144 tert-butanol	59	6.754	6.743	(0.696)	6138028	60.0000	42.04
24 Acrylonitrile	53	6.775	6.764	(0.698)	1049828	60.0000	48.42
25 1,1,2-Trichlorotrifluoroethane	101	6.850	6.840	(0.706)	4439450	30.0000	19.60
26 Methylene Chloride	84	7.023	7.017	(0.723)	1705654	30.0000	19.97
27 3-Chloropropene	39	7.049	7.039	(0.726)	1442369	30.0000	19.80
28 Carbon Disulfide	76	7.195	7.184	(0.741)	5766684	30.0000	20.86
133 2,3-Dimethyl butane	43	7.824	7.813	(0.806)	3585340	30.0000	19.48
29 trans-1,2-Dichloroethene	96	7.889	7.883	(0.813)	1877977	30.0000	22.23
30 Methyl-t-Butyl Ether	73	8.034	8.029	(0.828)	4143995	60.0000	50.88
31 1,1-Dichloroethane	63	8.341	8.335	(0.859)	3485554	30.0000	21.38
32 Vinyl Acetate	43	8.459	8.448	(0.871)	3481399	60.0000	51.27
33 2-Butanone	72	8.932	8.927	(0.920)	701506	60.0000	48.34
34 Hexane	56	8.954	8.943	(0.922)	1479296	30.0000	20.31
35 cis 1,2-Dichloroethene	96	9.363	9.357	(0.965)	2039792	30.0000	23.04
36 Chloroform	83	9.718	9.707	(1.001)	5265499	30.0000	28.31
37 1,1,1-Trichloroethane	97	10.761	10.745	(1.109)	5352378	30.0000	27.89
38 1,2-Dichloroethane	62	10.869	10.853	(0.917)	3706033	30.0000	31.88 (A)
40 1-Butanol	31	11.267	11.256	(0.951)	1071894	60.0000	67.14 (A)
39 Benzene	78	11.332	11.316	(0.956)	6050588	30.0000	29.48
41 Cyclohexane	69	11.337	11.316	(0.957)	1025743	30.0000	30.86 (A)
42 Carbon Tetrachloride	117	11.353	11.332	(0.958)	6925507	30.0000	28.85
145 2,2,4-trimethylpentane	57	12.074	12.058	(1.019)	11204597	30.0000	28.46
43 Heptane	43	12.424	12.408	(1.049)	5809612	30.0000	28.84
44 1,2-Dichloropropane	63	12.510	12.494	(1.056)	2537076	30.0000	31.84 (A)
45 Trichloroethene	130	12.531	12.515	(1.058)	3157514	30.0000	31.97 (A)
46 Dibromomethane	93	12.612	12.596	(1.064)	3301261	30.0000	30.73 (A)
47 Bromodichloromethane	83	12.746	12.736	(1.076)	6134864	30.0000	30.46 (A)
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.153)	5943630	60.0000	69.67 (A)
49 cis-1,3-Dichloropropene	75	13.715	13.704	(1.158)	5288757	30.0000	35.43 (A)
50 trans-1,3-Dichloropropene	75	14.387	14.382	(0.875)	3579190	30.0000	36.15 (A)
51 Toluene	91	14.522	14.511	(0.883)	7219706	30.0000	33.28 (A)
52 1,1,2-Trichloroethane	97	14.586	14.581	(0.887)	3110195	30.0000	31.17 (A)
53 2-Hexanone	58	14.957	14.952	(0.909)	2731027	60.0000	71.31 (A)
54 Octane	85	15.189	15.178	(0.923)	2689175	30.0000	36.30 (A)
55 Dibromochloromethane	129	15.275	15.264	(0.929)	6453974	30.0000	33.14 (A)
56 1,2-Dibromoethane	107	15.565	15.560	(0.946)	4666040	30.0000	34.45 (A)
57 Tetrachloroethene	129	15.635	15.630	(0.951)	3195438	30.0000	32.02 (A)
58 Chlorobenzene	112	16.496	16.491	(1.003)	6137794	30.0000	32.03 (A)
59 Ethylbenzene	91	16.781	16.776	(1.020)	9297370	30.0000	34.69 (A)
60 m-Xylene (For p-)	91	16.932	16.926	(1.029)	7805290	30.0000	36.50 (A)
62 Nonane	57	17.346	17.346	(1.055)	5175863	30.0000	32.33 (A)
61 Bromoform	173	17.378	17.378	(1.057)	6692628	30.0000	33.40 (A)
63 Styrene	104	17.400	17.394	(1.058)	6021613	30.0000	37.75 (A)
64 o-Xylene	91	17.459	17.454	(1.061)	8081029	30.0000	33.66 (A)
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	6559585	30.0000	29.91

Data File: /var/chem/gcms/me.i/E042105I.b/eicd215.d
 Report Date: 22-Apr-2005 14:53

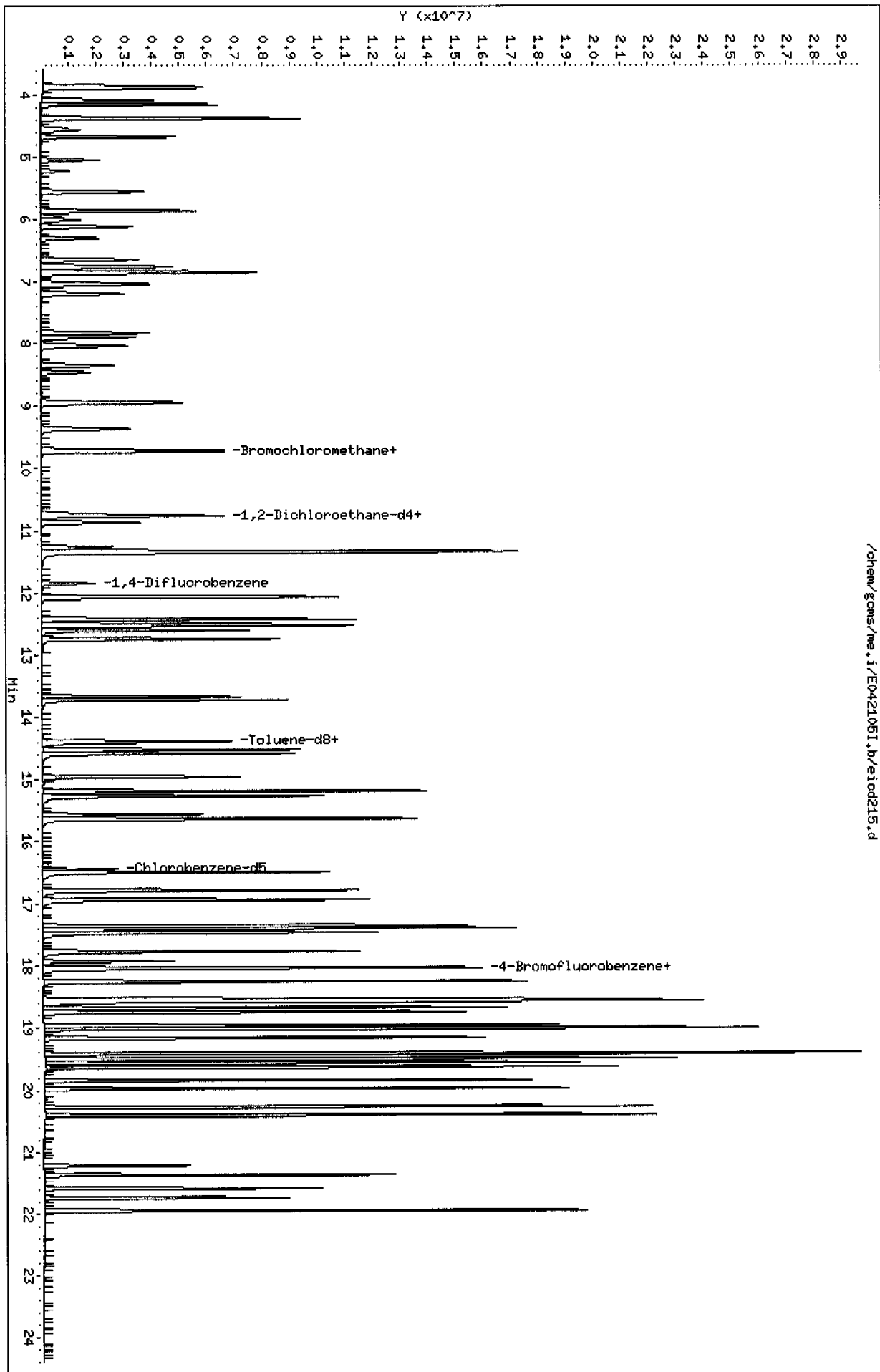
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
=====	====	==	=====	=====	=====	=====	=====
66 1,2,3-Trichloropropane	110	17.922	17.922	(1.090)	792871	30.0000	34.99 (A)
67 Cumene	105	18.029	18.024	(1.096)	10670824	30.0000	30.11 (A)
134 a-Pinene	93	18.250	18.244	(1.110)	6972609	30.0000	34.19 (A)
68 n-Propylbenzene	120	18.535	18.530	(1.127)	3945004	30.0000	36.94 (A)
135 Camphene	93	18.562	18.556	(1.129)	5387672	30.0000	32.27 (A)
146 2-chlorotoluene	126	18.578	18.573	(1.130)	3220489	30.0000	33.25 (A)
69 4-Ethyltoluene	105	18.675	18.669	(1.135)	11058610	30.0000	29.91
70 1,3,5-Trimethylbenzene	120	18.745	18.739	(1.140)	4765749	30.0000	36.18 (A)
71 Alpha-Methylstyrene	118	18.954	18.955	(1.152)	5913616	30.0000	38.19 (A)
136 b-Pinene	93	18.998	18.998	(1.155)	6302918	30.0000	30.76 (A)
72 Decane	57	19.019	19.008	(1.156)	6429910	30.0000	23.56
73 1,2,4-Trimethylbenzene	105	19.159	19.154	(1.165)	8820215	30.0000	32.56 (A)
141 sec-butylbenzene	105	19.412	19.406	(1.180)	11104480	30.0000	25.94
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	7470069	30.0000	31.00 (A)
75 Benzyl Chloride	91	19.487	19.487	(1.185)	7394100	30.0000	35.79 (A)
76 1,4-Dichlorobenzene	146	19.503	19.498	(1.186)	7489399	30.0000	32.46 (A)
137 p-Cymene	119	19.562	19.557	(1.189)	10193758	30.0000	28.66
138 d-Limonene	68	19.632	19.627	(1.194)	4490621	30.0000	33.34 (A)
77 1,2-Dichlorobenzene	146	19.847	19.848	(1.207)	7139194	30.0000	32.82 (A)
142 n-butylbenzene	91	19.977	19.971	(1.215)	9557945	30.0000	27.89
78 Undecane	57	20.272	20.273	(1.233)	7428779	30.0000	25.67
139 4-tert-Butyltoluene	133	20.407	20.402	(1.241)	9971525	30.0000	28.67
140 Camphor	95	21.214	21.214	(1.290)	1291791	30.0000	22.24
79 Dodecane	57	21.370	21.370	(1.299)	4095259	30.0000	20.89
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.312)	3246239	30.0000	34.30 (A)
81 Napthalene	128	21.736	21.736	(1.321)	6625125	30.0000	34.82 (A)
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	3926931	30.0000	27.35

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcms/me.i/E0421051.b/eicd215.d
Date : 21-APR-2005 18:53
Client ID: 30PPBV
Sample Info: IC5,,1,5,,30PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21.d
Report Date: 22-Apr-2005 16:01

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicvd21.d
Lab Smp Id: ICV
Inj Date : 21-APR-2005 20:08
Operator : 60487
Smp Info : ICV,,3,,ICV CX-1309
Misc Info : E042105I,LA,,100ML CX-1309
Comment :
Method : /var/chem/gcms/me.i/E042105I.b/LA.m
Meth Date : 22-Apr-2005 15:56 wilesd
Cal Date : 21-APR-2005 18:53
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Inst ID: me.i

Quant Type: ISTD

Cal File: eicd215.d

QC Sample: ICV CX-1309

Compound Sublist: icv.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
*****	----	==	=====	=====	=====	-----	-----
* 1 Bromochloromethane	128	9.691	9.691	(1.000)	333378	10.0000	
* 2 1,4-Difluorobenzene	114	11.832	11.832	(1.000)	1435580	10.0000	
* 3 Chlorobenzene-d5	117	16.442	16.442	(1.000)	1367475	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.702	10.708	(0.905)	217840	6.60035	6.600 (R) ←
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1341206	10.3688	10.37
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.098)	1073551	9.83799	9.838
8 Dichlorodifluoromethane	85	4.145	4.150	(0.428)	2767433	13.3668	13.37
9 Chloromethane	52	4.360	4.360	(0.450)	213864	11.7391	11.74
10 1,2-Dichlorotetrafluoroethane	135	4.371	4.376	(0.451)	1652085	12.6950	12.69
11 Vinyl Chloride	62	4.559	4.564	(0.470)	706644	13.0885	13.09
15 Bromomethane	94	5.038	5.043	(0.520)	675734	11.1587	11.16
16 Chloroethane	64	5.204	5.210	(0.537)	321352	12.0615	12.06
17 Trichlorofluoromethane	101	5.855	5.861	(0.604)	2260590	10.0854	10.08
23 1,1-Dichloroethene	96	6.630	6.641	(0.684)	726703	12.2930	12.29
25 1,1,2-Trichlorotrifluoroethane	101	6.834	6.840	(0.705)	1616022	10.7299	10.73
26 Methylene Chloride	84	7.007	7.017	(0.723)	579391	10.2009	10.20
31 1,1-Dichloroethane	63	8.325	8.335	(0.859)	1097302	10.1232	10.12
35 cis 1,2-Dichloroethene	96	9.347	9.357	(0.964)	612302	10.4033	10.40
36 Chloroform	83	9.696	9.707	(1.001)	1302647	10.5319	10.53
37 1,1,1-Trichloroethane	97	10.740	10.745	(1.108)	1177488	9.22656	9.226
38 1,2-Dichloroethane	62	10.848	10.853	(0.917)	673174	6.72053	6.720

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21.d
 Report Date: 22-Apr-2005 16:01

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
39 Benzene	78	11.316	11.316	(0.956)	1897989	10.7321	10.73
42 Carbon Tetrachloride	117	11.332	11.332	(0.958)	2274735	11.0008	11.00
44 1,2-Dichloropropane	63	12.494	12.494	(1.056)	745708	10.8624	10.86
45 Trichloroethene	130	12.515	12.515	(1.058)	991012	11.6484	11.65
49 cis-1,3-Dichloropropene	75	13.704	13.704	(1.158)	1083223	8.42344	8.423
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.875)	825088	10.2275	10.23
51 Toluene	91	14.511	14.511	(0.883)	2186098	12.3667	12.37
52 1,1,2-Trichloroethane	97	14.576	14.581	(0.886)	813029	10.0006	10.00
56 1,2-Dibromoethane	107	15.560	15.560	(0.946)	1235962	11.1992	11.20
57 Tetrachloroethene	129	15.630	15.630	(0.951)	1012764	12.4536	12.45
58 Chlorobenzene	112	16.491	16.491	(1.003)	1778379	11.3887	11.39
59 Ethylbenzene	91	16.776	16.776	(1.020)	2896068	13.2612	13.26
60 m-Xylene (For p-)	91	16.932	16.926	(1.030)	4796544	23.1622	23.16
63 Styrene	104	17.395	17.394	(1.058)	1462954	11.2562	11.26
64 o-Xylene	91	17.454	17.454	(1.062)	2458933	12.5712	12.57
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	1885597	10.5500	10.55
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.140)	1173343	10.9327	10.93
73 1,2,4-Trimethylbenzene	105	19.154	19.154	(1.165)	2691784	12.1962	12.20
74 1,3-Dichlorobenzene	146	19.412	19.417	(1.181)	2097643	10.6834	10.68
75 Benzyl Chloride	91	19.482	19.487	(1.185)	458604	2.72439	2.724
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	2014264	10.7140	10.71
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.207)	1879196	10.6009	10.60
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	862338	11.1826	11.18
81 Napthalene	128	21.736	21.736	(1.322)	944689	5.60161	5.602 (R)
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	1353459	11.5665	11.57
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	886572	7.24572	7.246
134 a-Pinene	93	18.245	18.244	(1.110)	1216900	7.32205	7.322
135 Camphene	93	18.557	18.556	(1.129)	950583	6.98732	6.987
136 b-Pinene	93	18.998	18.998	(1.155)	894327	5.35665	5.357 (R)
137 p-Cymene	119	19.557	19.557	(1.189)	2116478	7.30272	7.303
138 d-Limonene	68	19.627	19.627	(1.194)	707161	6.44382	6.444 (R)
139 4-tert-Butyltoluene	133	20.402	20.402	(1.241)	2018722	7.12295	7.123
140 Camphor	95	21.219	21.214	(1.291)	224297	4.36317	4.363 (R)
141 sec-butylbenzene	105	19.401	19.406	(1.180)	2749616	7.88343	7.883
142 n-butylbenzene	91	19.971	19.971	(1.215)	2015679	7.21852	7.218
143 Vinyl Bromide	106	5.549	5.554	(0.573)	853560	7.33533	7.335
144 tert-butanol	59	6.743	6.743	(0.696)	3667632	37.7837	37.78
145 2,2,4-trimethylpentane	57	12.058	12.058	(1.019)	2456949	7.24353	7.244
146 2-chlorotoluene	126	18.573	18.573	(1.130)	540471	6.84734	6.847

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21.d
 Report Date: 22-Apr-2005 16:01

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i
 Lab File ID: eicvd21.d
 Lab Smp Id: ICV
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 60487

Calibration Date: 21-APR-2005
 Calibration Time: 17:39

Level: LOW
 Sample Type: AIR

Method File: /var/chem/gcms/me.i/E042105I.b/LA.m
 Misc Info: E042105I,LA,,,100ML CX-1309

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	372468	✓ 221618	523318	333378	-10.49
2 1,4-Difluorobenze	1414048	✓ 841359	1986737	1435580	1.52
3 Chlorobenzene-d5	1358590	✓ 808361	1908819	1367475	0.65

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	9.69	9.36	10.02	9.69	0.00
2 1,4-Difluorobenze	11.83	11.50	12.16	11.83	0.00
3 Chlorobenzene-d5	16.44	16.11	16.77	16.44	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21.d

Report Date: 22-Apr-2005 16:01

STL Knoxville

RECOVERY REPORT

Client Name:

Client SDG: E042105I

Sample Matrix: GAS

Fraction: OTHER

Lab Smp Id: ICV

Level: LOW

Operator: 60487

Data Type: MS DATA

SampleType: ICV CX-1309

SpikeList File: icvnopolar.spk

Quant Type: ISTD

Sublist File: icv.sub

Method File: /var/chem/gcms/me.i/E042105I.b/LA.m

Misc Info: E042105I,LA,,,100ML CX-1309

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
8 Dichlorodifluorome	10.00	13.37	133.67	65-135
9 Chloromethane	10.00	11.74	117.39	65-135
10 1,2-Dichlorotetra	10.00	12.69	126.95	65-135
11 Vinyl Chloride	10.00	13.09	130.88	65-135
15 Bromomethane	10.00	11.16	111.59	65-135
16 Chloroethane	10.00	12.06	120.61	65-135
17 Trichlorofluoromet	10.00	10.08	100.85	65-135
23 1,1-Dichloroethene	10.00	12.29	122.93	65-135
25 1,1,2-Trichlorotri	10.00	10.73	107.30	65-135
26 Methylene Chloride	10.00	10.20	102.01	65-135
31 1,1-Dichloroethane	10.00	10.12	101.23	65-135
35 cis 1,2-Dichloroet	10.00	10.40	104.03	65-135
36 Chloroform	10.00	10.53	105.32	65-135
37 1,1,1-Trichloroeth	10.00	9.226	92.27	65-135
38 1,2-Dichloroethane	10.00	6.720	67.21	65-135
39 Benzene	10.00	10.73	107.32	65-135
42 Carbon Tetrachlori	10.00	11.00	110.01	65-135
44 1,2-Dichloropropan	10.00	10.86	108.62	65-135
45 Trichloroethene	10.00	11.65	116.48	65-135
49 cis-1,3-Dichloropr	10.00	8.423	84.23	65-135
50 trans-1,3-Dichloro	10.00	10.23	102.28	65-135
51 Toluene	10.00	12.37	123.67	65-135
52 1,1,2-Trichloroeth	10.00	10.00	100.01	65-135
56 1,2-Dibromoethane	10.00	11.20	111.99	65-135
57 Tetrachloroethene	10.00	12.45	124.54	65-135
58 Chlorobenzene	10.00	11.39	113.89	65-135
59 Ethylbenzene	10.00	13.26	132.61	65-135
60 m-Xylene (For p-)	20.00	23.16	115.81	65-135
63 Styrene	10.00	11.26	112.56	65-135
64 o-Xylene	10.00	12.57	125.71	65-135
65 1,1,2,2-Tetrachlor	10.00	10.55	105.50	65-135
70 1,3,5-Trimethylben	10.00	10.93	109.33	65-135
73 1,2,4-Trimethylben	10.00	12.20	121.96	65-135

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21.d

Report Date: 22-Apr-2005 16:01

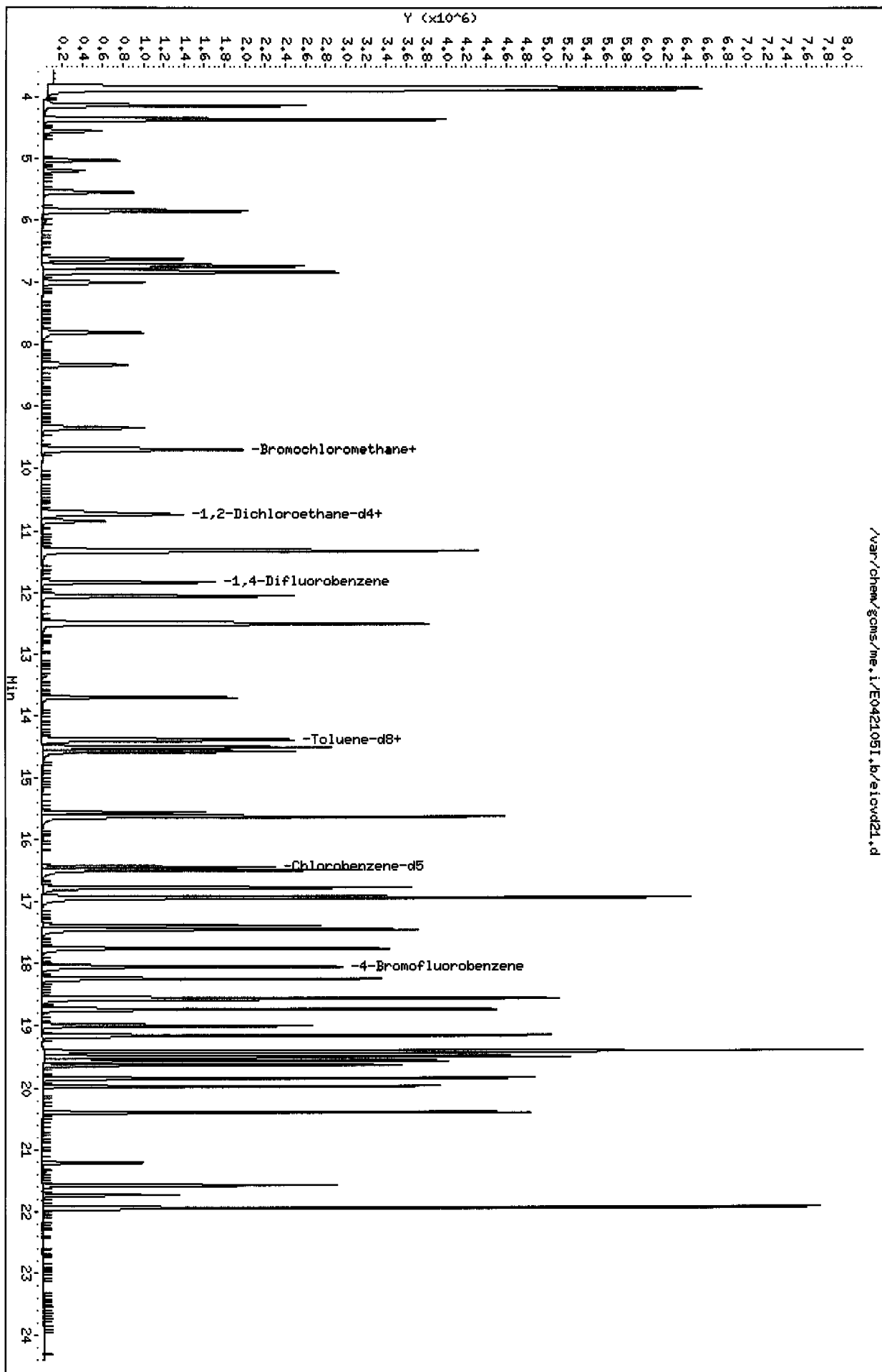
SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
74 1,3-Dichlorobenzen	10.00	10.68	106.83	65-135
75 Benzyl Chloride	10.00	2.724	27.24	20-180
76 1,4-Dichlorobenzen	10.00	10.71	107.14	65-135
77 1,2-Dichlorobenzen	10.00	10.60	106.01	65-135
80 1,2,4-Trichloroben	10.00	11.18	111.83	65-135
81 Napthalene	10.00	5.602	56.02*	65-135
82 Hexachlorobutadien	10.00	11.57	115.67	65-135
133 2,3-Dimethyl butan	10.00	7.246	72.46	65-135
134 a-Pinene	10.00	7.322	73.22	65-135
135 Camphene	10.00	6.987	69.87	65-135
136 b-Pinene	10.00	5.357	53.57*	65-135
137 p-Cymene	10.00	7.303	73.03	65-135
138 d-Limonene	10.00	6.444	64.44*	65-135
139 4-tert-Butyltoluen	10.00	7.123	71.23	65-135
140 Camphor	10.00	4.363	43.63*	65-135
141 sec-butylbenzene	10.00	7.883	78.83	65-135
142 n-butylbenzene	10.00	7.218	72.19	65-135
143 Vinyl Bromide	10.00	7.335	73.35	65-135
144 tert-butanol	50.00	37.78	75.57	65-135
145 2,2,4-trimethylpen	10.00	7.244	72.44	65-135
146 2-chlorotoluene	10.00	6.847	68.47	65-135

see
Eicvd21.x
7/20
4.22.05

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	6.600	66.00*	70-130
\$ 5 Toluene-d8	10.00	10.37	103.69	70-130
\$ 6 4-Bromofluorobenze	10.00	9.838	98.38	70-130

Data File: /var/chem/gcms/me.i/E0421051.b/eiowd21.d
Date : 21-APR-2005 20:08
Client ID:
Sample Info: ICV,,3,,ICV CX-1309
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 60487
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21x.d
Report Date: 22-Apr-2005 16:01

second
source
#2

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042105I.b/eicvd21x.d

Lab Smp Id: ICV

Inj Date : 21-APR-2005 21:57

Operator : 60487

Inst ID: me.i

Smp Info : ICV,,3,,ICV CX1312

Misc Info : E042105I,LA,,,100ML CX-1312

Comment :

Method : /var/chem/gcms/me.i/E042105I.b/LA.m

Meth Date : 22-Apr-2005 15:56 wilesd

Quant Type: ISTD

Cal Date : 21-APR-2005 18:53

Cal File: eicd215.d

Als bottle: 12

QC Sample: ICV CX1312

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.685	9.691	(1.000)	332937	10.0000	
* 2 1,4-Difluorobenzene	114	11.832	11.832	(1.000)	1350357	10.0000	
* 3 Chlorobenzene-d5	117	16.442	16.442	(1.000)	1232616	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.697	10.708	(0.904)	206461	6.65038	6.650 (R)
\$ 5 Toluene-d8	98	14.398	14.403	(0.876)	1161522	9.96210	9.962
\$ 6 4-Bromofluorobenzene	95	18.045	18.051	(1.097)	906561	9.21664	9.217
12 Methanol	31	4.548	4.532	(0.470)	15446	2.45503	2.455
14 n-Butane	43	4.656	4.666	(0.481)	4345	0.04402	0.04402
143 Vinyl Bromide	106	5.543	5.554	(0.572)	846555	7.28476	7.285
18 Acrolein	56	5.613	5.877	(0.580)	497	0.08005	0.08005
19 Acetonitrile	40	6.043	5.957	(0.624)	1091	0.13266	0.1326
20 Acetone	58	6.022	6.006	(0.622)	18053	2.13614	2.136
21 Pentane	57	6.049	6.108	(0.625)	1864	0.12182	0.1218
144 tert-butanol	59	6.737	6.743	(0.696)	4102723	42.3219	42.32
24 Acrylonitrile	53	6.732	6.764	(0.695)	37090	2.57642	2.576
133 2,3-Dimethyl butane	43	7.808	7.813	(0.806)	885367	7.24545	7.245
32 Vinyl Acetate	43	8.626	8.448	(0.891)	6163	0.13670	0.1367
33 2-Butanone	72	8.927	8.927	(0.922)	1527	0.15846	0.1585
145 2,2,4-trimethylpentane	57	12.052	12.058	(1.019)	2489579	7.80295	7.803
52 1,1,2-Trichloroethane	97	14.409	14.581	(0.876)	136122	1.85755	1.858
60 m-Xylene (For p-)	91	16.926	16.926	(1.029)	3968	0.16996	0.1700

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21x.d
 Report Date: 22-Apr-2005 16:01

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	----	==	=====	=====	=====	=====	=====
65 1,1,2,2-Tetrachloroethane	83	17.755	17.760	(1.080)	8901	0.05525	0.05525
66 1,2,3-Trichloropropane	110	18.051	17.922	(1.098)	820	0.04930	0.04930
134 a-Pinene	93	18.244	18.244	(1.110)	1260623	8.41501	8.415
68 n-Propylbenzene	120	18.551	18.530	(1.128)	5093	0.06493	0.06492
135 Camphene	93	18.556	18.556	(1.129)	1003930	8.18683	8.187
146 2-chlorotoluene	126	18.567	18.573	(1.129)	559231	7.86018	7.860
69 4-Ethyltoluene	105	18.556	18.669	(1.129)	77572	0.28569	0.2857
136 b-Pinene	93	18.992	18.998	(1.155)	1283227	8.52691	8.527
72 Decane	57	18.997	19.008	(1.155)	10277	0.05127	0.05127
73 1,2,4-Trimethylbenzene	105	19.159	19.154	(1.165)	13081	0.06576	0.06576
141 sec-butylbenzene	105	19.401	19.406	(1.180)	2759752	8.77818	8.778
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	14714	0.08314	0.08314
75 Benzyl Chloride	91	19.557	19.487	(1.189)	632754	4.17021	4.170
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.186)	12196	0.07197	0.07197
137 p-Cymene	119	19.557	19.557	(1.189)	2270611	8.69171	8.692
138 d-Limonene	68	19.627	19.627	(1.194)	892230	9.01973	9.020
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.207)	20508	0.12835	0.1284
142 n-butylbenzene	91	19.971	19.971	(1.215)	2184945	8.68078	8.681
78 Undecane	57	20.402	20.273	(1.241)	31963	0.15040	0.1504
139 4-tert-Butyltoluene	133	20.402	20.402	(1.241)	2292931	8.97565	8.976
140 Camphor	95	21.214	21.214	(1.290)	558303	12.0487	12.05
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.313)	45278	0.65140	0.6514
81 Napthalene	128	21.736	21.736	(1.322)	1182962	7.78192	7.782
82 Hexachlorobutadiene	225	21.945	21.951	(1.335)	22434	0.21270	0.2127

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21x.d
 Report Date: 22-Apr-2005 16:01

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i
 Lab File ID: eicvd21x.d
 Lab Smp Id: ICV
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 60487
 Method File: /var/chem/gcms/me.i/E042105I.b/LA.m
 Misc Info: E042105I,LA,,,100ML CX-1312

Calibration Date: 21-APR-2005
 Calibration Time: 17:39
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	372468	221618	523318	332937	-10.61
2 1,4-Difluorobenze	1414048	841359	1986737	1350357	-4.50
3 Chlorobenzene-d5	1358590	808361	1908819	1232616	-9.27

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	9.69	9.36	10.02	9.69	-0.06
2 1,4-Difluorobenze	11.83	11.50	12.16	11.83	0.00
3 Chlorobenzene-d5	16.44	16.11	16.77	16.44	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042105I.b/eicvd21x.d

Report Date: 22-Apr-2005 16:01

STL Knoxville

RECOVERY REPORT

Client Name:

Client SDG: E042105I

Sample Matrix: GAS

Fraction: OTHER

Lab Smp Id: ICV

Level: LOW

Operator: 60487

Data Type: MS DATA

SampleType: ICV CX1312

SpikeList File: xtra.spk

Quant Type: ISTD

Sublist File: all.sub

Method File: /var/chem/gcms/me.i/E042105I.b/LA.m

Misc Info: E042105I,LA,,,100ML CX-1312

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
81 Napthalene	10.00	7.782	77.82	65-135
133 2,3-Dimethyl butan	10.00	7.245	72.45	65-135
134 a-Pinene	10.00	8.415	84.15	65-135
135 Camphene	10.00	8.187	81.87	65-135
136 b-Pinene	10.00	8.527	85.27	65-135
137 p-Cymene	10.00	8.692	86.92	65-135
138 d-Limonene	10.00	9.020	90.20	65-135
139 4-tert-Butyltoluen	10.00	8.976	89.76	65-135
140 Camphor	10.00	12.05	120.49	65-135
141 sec-butylbenzene	10.00	8.778	87.78	65-135
142 n-butylbenzene	10.00	8.681	86.81	65-135

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	6.650	66.50*	70-130
\$ 5 Toluene-d8	10.00	9.962	99.62	70-130
\$ 6 4-Bromofluorobenze	10.00	9.217	92.17	70-130

Data File: /var/chem/gcms/me.i/E0421051.b/eiowd21x.d

Date : 21-APR-2005 21:57

Client ID:

Sample Info: ICV,,3,,ICV CK1312

Volume Injected (uL): 500.0

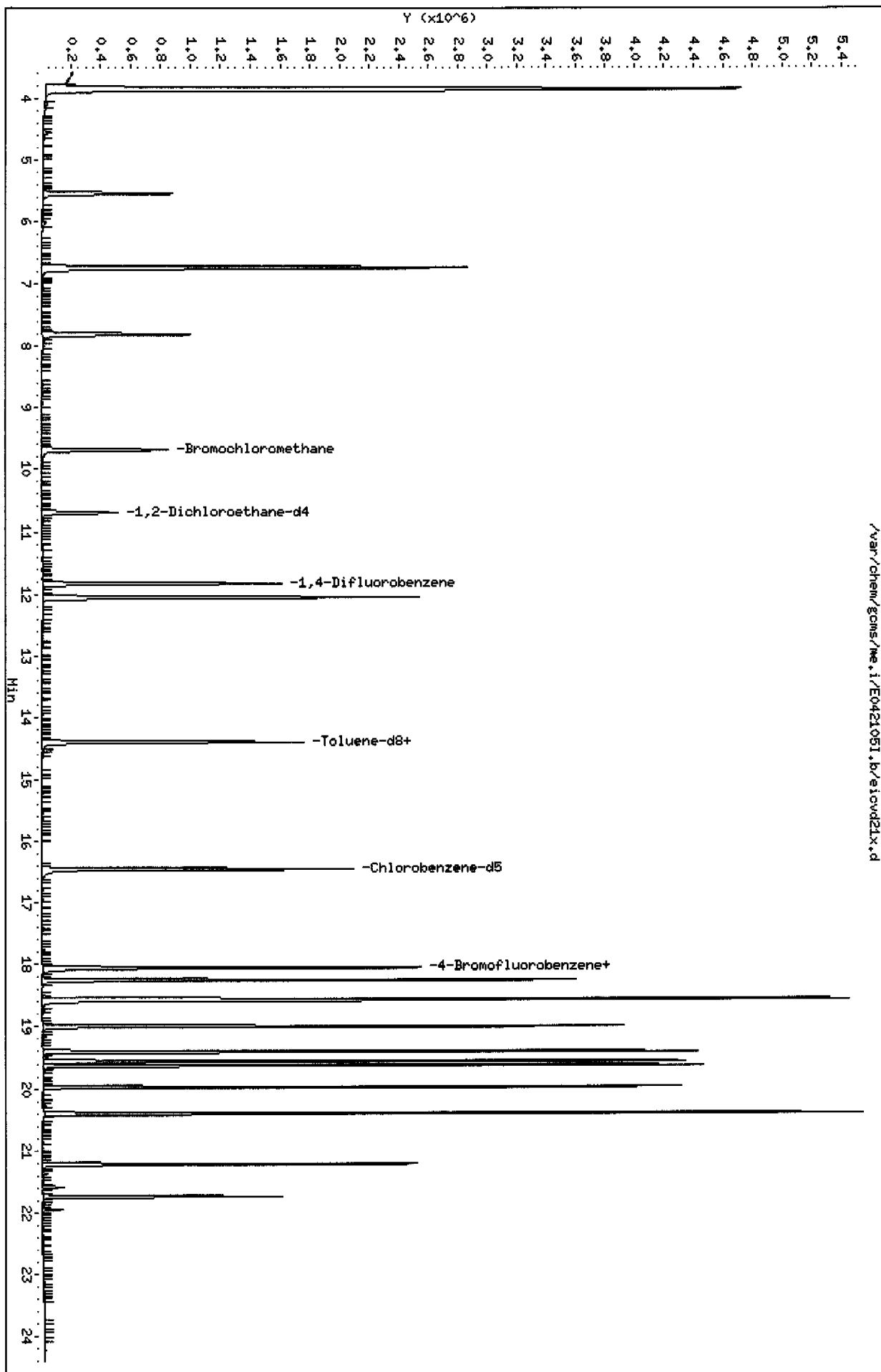
Column phase: DB-5

Instrument: me.i

Operator: 60487

Column diameter: 0.32

/var/chem/gcms/me.i/E0421051.b/eiowd21x.d



STL Knoxville
TO-14/15 RUN LOG

DW 5114021 G8342
JM 5114025 G8343
Inst: ME

GCMS Analysis: TO-14/15

Analyst: DW

Preventive Maintenance Performed ☒

Qtimes Batch: U6 5114026

Date: 4/22/05

System Date/Time ok (y/n): ☒

Target Batch: 6042205

BFB Time: 1045

Surr/IS ID: V077

IS #1 Area: 334573

ICAL Batch: 6042105 I

Time	Seq #	Lot No.	File ID	Can #	Pos	Vol* (mL)	DF	Comments
1045	1	BFB	EBFBD22	-	16	100	-	
1119	2	CCV	ECCVD22	CX-1307	STD	100	-	1,2-dca; 1 butanol; 1 ~~lock~~ ^{mod/modane}
1156	3	LCS	ELCSD22	CX-1313	15	100	-	Sur #1 to; 1 polars; 1 1,2-dca
1235	4	BLK	EBLKD22	11411	16	500	-	(sur OK) BLK chk 5447
1314	5	BLK	↓ A	↓	16	↓	-	OK
1543	6	HSD040219	G7K9MIAD	1488	1	50	15.7	RR 500
1629	7	↓	G7K9MR	↓	1	500	1.57	OK
1723	8	HSD050132	G7M0F2AK	02300	2	50	15.5	OK
0610	25	BLK chk	5448	1500	16	500	-	
0650	26	↓	↓ R	↓	16	↓	-	
1923	9	HSD190111	G8L3M	12649	1	100	10978.5	Ser / 1014M NRR 09 10m
2000	10	HSD120102	G757F	12646	2	150	4.73	bridge
2039	11	↓	↓ L	11334	3	500	1	↓
2125	12	HSD010113	G7GA1	02306	4	1500	19.5	2ICDL/10MNT
2206	13	HSD080145	G7ORM	0174	5	500	1.46	lock
2246	14	↓	↓ R	12342	6	↓	1.30	704.0 sur
2326	15	↓	↓ RD	↓	6	↓	↓	698.5 sur
0007	16	HSD150210	G8F3J	05713	7	↓	1.5	dup ↓ SURR. OK Dye
0047	17	↓	↓ A	12880	8	↓	1.29	OK SURR
0127	18	HSD110125	G8CEC	93121	9	15	43.3	RR 500mL
0208	19	HSD140174	G8CX C	3403	10	482	8	RR ↓ SURR
0248	20	↓	↓ D	2986	11	384	↓	bp NO MTBE w/7
0329	21	↓	↓ E	04396	12	400	↓	↓
0409	22	↓	↓ F	93038	13	412	↓	↓
0449	23	↓	↓ H	2956	14	403	↓	↓
0530	24	↓	↓ J	12523	15	63	↓	↓

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calculations.

Analyst: [Signature]

Date: 4/24/05

MS027R12.DOC, 3/3/05

050422
STL-Knoxville
TO-14 Autosampler Log
'ME'

Sample	Volume	Position	Date	Time
BFB	101ml	16	4/22/200	10:45:49 AM
CCV	99ml	STD	4/22/200	11:19:45 AM
LCS	101ml	15	4/22/200	11:56:37 AM
BLK	502ml	16	4/22/200	12:35:52 PM
BLKA	500ml	16	4/22/200	1:14:58 PM
G7K9M	52ml	1	4/22/200	3:43:23 PM
G7K9M	501ml	1	4/22/200	4:29:22 PM
G7M0F	52ml	2	4/22/200	5:23:40 PM
G8L3M	/ 101ml	1	4/22/200	7:23:21 PM
G757F	153ml	2	4/22/200	8:00:31 PM
G757L	502ml	3	4/22/200	8:39:58 PM
G7GA1	/ 1502ml	4	4/22/200	9:25:50 PM
G7ORM	/ 501ml	5	4/22/200	10:06:25 PM
G7ORR	501ml	6	4/22/200	10:46:39 PM
G7ORRD	502ml	6	4/22/200	11:26:50 PM
G8F3J	502ml	7	4/23/200	12:07:17 AM
G8F3Q	501ml	8	4/23/200	12:47:28 AM
G8CEC	15ml	9	4/23/200	1:27:57 AM
G8CXC	482ml	10	4/23/200	2:08:39 AM
G8CXD	386ml	11	4/23/200	2:48:50 AM
G8CXE	401ml	12	4/23/200	3:29:16 AM
G8CXF	414ml	13	4/23/200	4:09:28 AM
G8CXH	403ml	14	4/23/200	4:49:55 AM
G8CXJ	/ 63ml	1	4/23/200	5:30:25 AM
5448	501ml	16	4/23/200	6:10:53 AM
5448R	500ml	16	4/23/200	6:50:55 AM

Data File: /chem/gcms/me.i/E042205,b/ebfbd22,d

Date : 22-APR-2005 10:45

Client ID:

Instrument: me.i

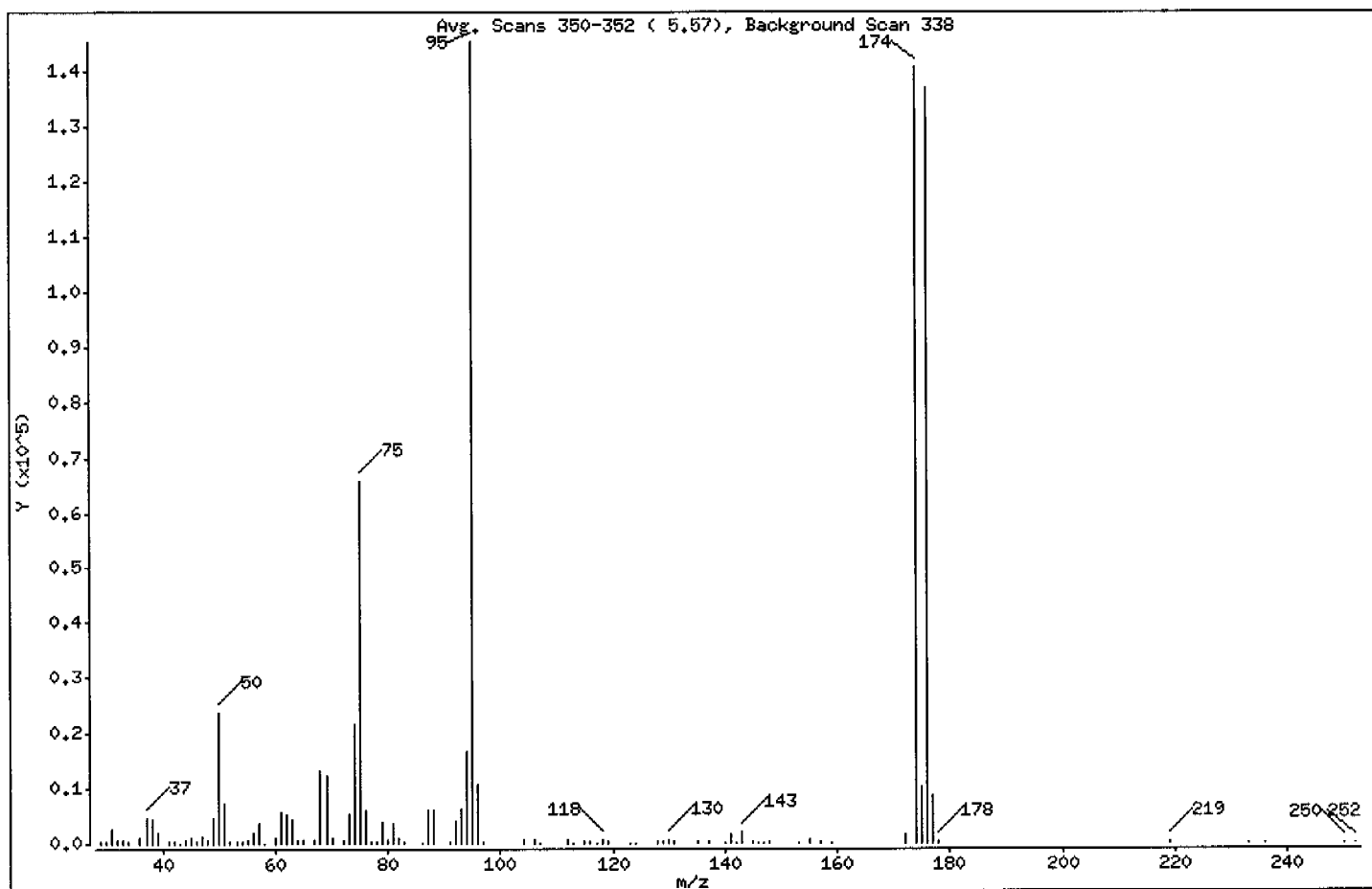
Sample Info: BFBED22,,3,,BFB

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.33
75	30.00 - 60.00% of mass 95	45.28
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	96.88
175	5.00 - 9.00% of mass 174	7.22 (7.46)
176	95.00 - 101.00% of mass 174	94.17 (97.21)
177	5.00 - 9.00% of mass 176	5.98 (6.35)

Data File: /chem/gcms/me.i/E042205.b/ebfbd22.d

Date : 22-APR-2005 10:45

Client ID:

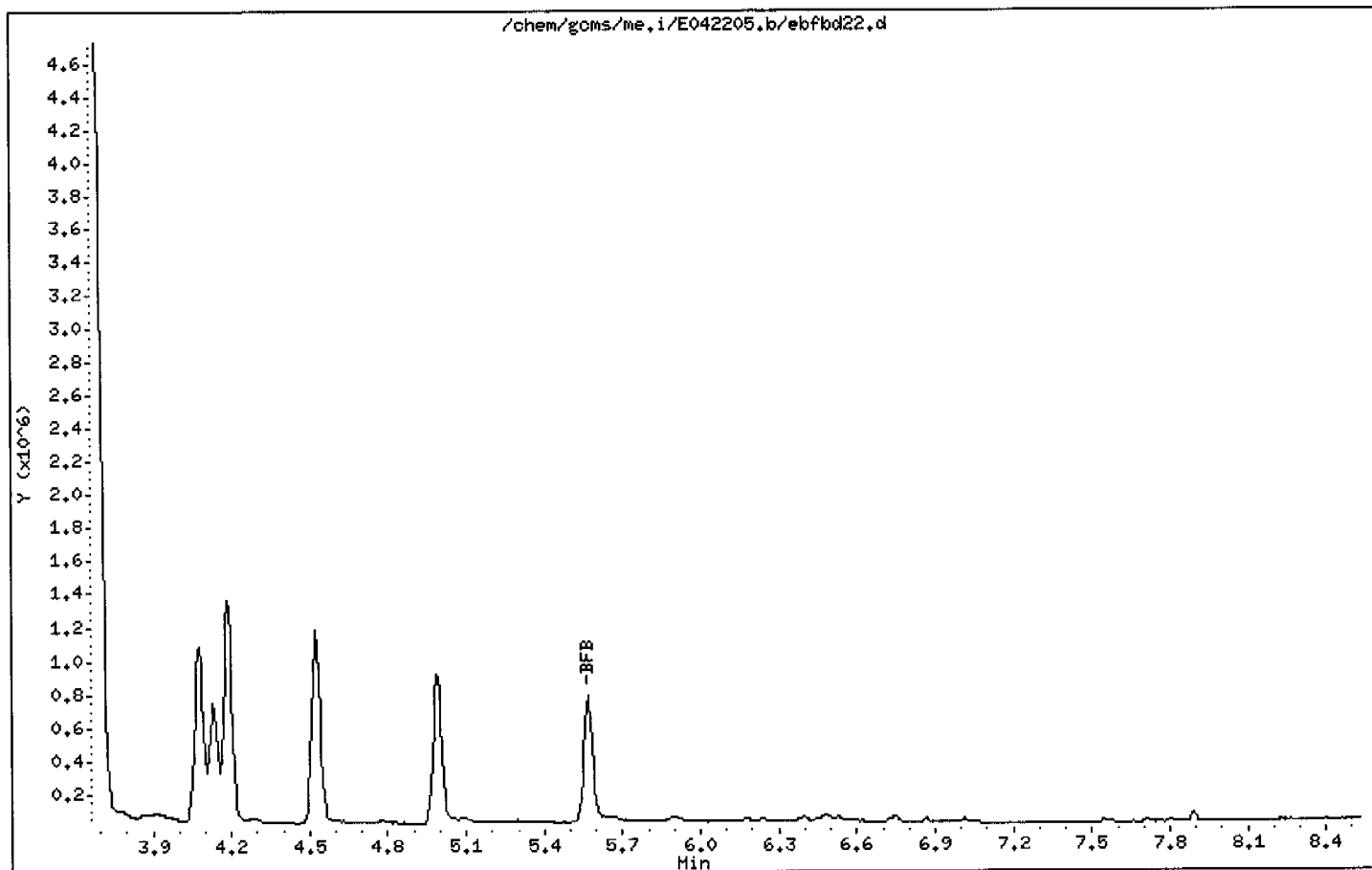
Instrument: me.i

Sample Info: BFBED22,,3,,BFB

Operator: 7126

Column phase: DB-5

Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d

Report Date: 22-Apr-2005 15:58

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i Injection Date: 22-APR-2005 11:19
 Lab File ID: eccvd22.d Init. Cal. Date(s): 21-APR-2005 21-APR-2005
 Analysis Type: AIR Init. Cal. Times: 14:03 18:53
 Lab Sample ID: CCVED22 Quant Type: ISTD
 Method: /var/chem/gcms/me.i/E042205.b/LA.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 4 1,2-Dichloroethane-d4	0.22990	0.16393	0.16393	0.000	28.69434	30.00000	Averaged
\$ 5 Toluene-d8	0.94591	0.96768	0.96768	0.000	-2.30216	30.00000	Averaged
\$ 6 4-Bromofluorobenzene	0.79799	0.84425	0.84425	0.000	-5.79743	30.00000	Averaged
7 Chlorodifluoromethane	4.84943	4.63228	4.63228	0.000	4.47788	30.00000	Averaged
8 Dichlorodifluoromethane	6.21031	5.86286	5.86286	0.000	5.59474	30.00000	Averaged
9 Chloromethane	0.54647	0.48845	0.48845	0.000	10.61690	30.00000	Averaged
10 1,2-Dichlorotetrafluoroetha	3.90357	3.77938	3.77938	0.000	3.18152	30.00000	Averaged
12 Methanol	0.18897	0.20090	0.20090	0.000	-6.31048	30.00000	Averaged
11 Vinyl Chloride	1.61947	1.57582	1.57582	0.000	2.69571	30.00000	Averaged
13 1,3-Butadiene	1.27077	1.23645	1.23645	0.000	2.70014	30.00000	Averaged
14 n-Butane	2.96484	2.77997	2.77997	0.000	6.23518	30.00000	Averaged
15 Bromomethane	1.81646	1.75883	1.75883	0.000	3.17254	30.00000	Averaged
16 Chloroethane	0.79918	0.76513	0.76513	0.000	4.26002	30.00000	Averaged
143 Vinyl Bromide	3.49041	3.48271	3.48271	0.000	0.22076	30.00000	Averaged
17 Trichlorofluoromethane	6.72345	6.32604	6.32604	0.000	5.91080	30.00000	Averaged
18 Acrolein	0.18661	0.17312	0.17312	0.000	7.22881	30.00000	Averaged
19 Acetonitrile	0.24709	0.21727	0.21727	0.000	12.06725	30.00000	Averaged
20 Acetone	0.25385	0.27133	0.27133	0.000	-6.88539	30.00000	Averaged
21 Pentane	0.45971	0.43639	0.43639	0.000	5.07295	30.00000	Averaged
22 Ethyl Ether	0.54563	0.49540	0.49540	0.000	9.20475	30.00000	Averaged
23 1,1-Dichloroethene	1.77322	1.74798	1.74798	0.000	1.42312	30.00000	Averaged
144 tert-butanol	2.91168	2.99290	2.99290	0.000	-2.78940	30.00000	Averaged
24 Acrylonitrile	0.43240	0.42210	0.42210	0.000	2.38362	30.00000	Averaged
25 1,1,2-Trichlorotrifluoroeth	4.51768	4.34048	4.34048	0.000	3.92225	30.00000	Averaged
26 Methylene Chloride	1.70371	1.57969	1.57969	0.000	7.27970	30.00000	Averaged
27 3-Chloropropene	1.45303	1.30598	1.30598	0.000	10.12054	30.00000	Averaged
28 Carbon Disulfide	5.51348	5.46476	5.46476	0.000	0.88356	30.00000	Averaged
133 2,3-Dimethyl butane	3.67024	3.48842	3.48842	0.000	4.95404	30.00000	Averaged
29 trans-1,2-Dichloroethene	1.68522	1.69322	1.69322	0.000	-0.47465	30.00000	Averaged
30 Methyl-t-Butyl Ether	1.62428	1.55108	1.55108	0.000	4.50676	30.00000	Averaged
31 1,1-Dichloroethane	3.25139	3.07099	3.07099	0.000	5.54843	30.00000	Averaged
32 Vinyl Acetate	1.35432	1.29860	1.29860	0.000	4.11490	30.00000	Averaged
33 2-Butanone	0.28946	0.27381	0.27381	0.000	5.40855	30.00000	Averaged
34 Hexane	1.45283	1.42642	1.42642	0.000	1.81770	30.00000	Averaged
35 cis 1,2-Dichloroethene	1.76545	1.72854	1.72854	0.000	2.09073	30.00000	Averaged

Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d

Report Date: 22-Apr-2005 15:58

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i Injection Date: 22-APR-2005 11:19
 Lab File ID: eccvd22.d Init. Cal. Date(s): 21-APR-2005 21-APR-2005
 Analysis Type: AIR Init. Cal. Times: 14:03 18:53
 Lab Sample ID: CCVED22 Quant Type: ISTD
 Method: /var/chem/gcms/me.i/E042205.b/LA.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
36 Chloroform	3.71007	3.33509	3.33509	0.000	10.10703	30.00000	Averaged
37 1,1,1-Trichloroethane	3.82806	2.97888	2.97888	0.000	22.18298	30.00000	Averaged
38 1,2-Dichloroethane	0.69774	0.43301	0.43301	0.000	37.94119	30.00000	Averaged <-
40 1-Butanol	0.09581	0.12582	0.12582	0.000	-31.32111	30.00000	Averaged <-
39 Benzene	1.23192	1.24780	1.24780	0.000	-1.28952	30.00000	Averaged
41 Cyclohexane	0.19950	0.22382	0.22382	0.000	-12.19059	30.00000	Averaged
42 Carbon Tetrachloride	1.44038	1.58938	1.58938	0.000	-10.34427	30.00000	Averaged
145 2,2,4-trimethylpentane	2.36275	2.46571	2.46571	0.000	-4.35762	30.00000	Averaged
43 Heptane	1.20884	1.29347	1.29347	0.000	-7.00088	30.00000	Averaged
44 1,2-Dichloropropane	0.47821	0.46445	0.46445	0.000	2.87724	30.00000	Averaged
45 Trichloroethene	0.59263	0.59504	0.59504	0.000	-0.40710	30.00000	Averaged
46 Dibromomethane	0.64469	0.62676	0.62676	0.000	2.78104	30.00000	Averaged
47 Bromodichloromethane	1.20872	1.17994	1.17994	0.000	2.38094	30.00000	Averaged
48 4-Methyl-2-pentanone	0.51198	0.56361	0.56361	0.000	-10.08400	30.00000	Averaged
49 cis-1,3-Dichloropropene	0.89578	0.93242	0.93242	0.000	-4.09082	30.00000	Averaged
50 trans-1,3-Dichloropropene	0.58994	0.59636	0.59636	0.000	-1.08690	30.00000	Averaged
51 Toluene	1.29270	1.31653	1.31653	0.000	-1.84328	30.00000	Averaged
52 1,1,2-Trichloroethane	0.59451	0.55943	0.55943	0.000	5.90064	30.00000	Averaged
53 2-Hexanone	0.24372	0.23746	0.23746	0.000	2.57050	30.00000	Averaged
54 Octane	0.44146	0.48906	0.48906	0.000	-10.78203	30.00000	Averaged
55 Dibromochloromethane	1.16045	1.18308	1.18308	0.000	-1.94993	30.00000	Averaged
56 1,2-Dibromoethane	0.80704	0.81014	0.81014	0.000	-0.38392	30.00000	Averaged
57 Tetrachloroethene	0.59469	0.61334	0.61334	0.000	-3.13548	30.00000	Averaged
58 Chlorobenzene	1.14191	1.09567	1.09567	0.000	4.04910	30.00000	Averaged
59 Ethylbenzene	1.59700	1.76758	1.76758	0.000	-10.68096	30.00000	Averaged
60 m-Xylene (For p-)	9.56018	10.00000	1.43444	0.000	4.39823	30.00000	Wt Linear
62 Nonane	0.95392	1.09330	1.09330	0.000	-14.61075	30.00000	Averaged
61 Bromoform	1.19393	1.31217	1.31217	0.000	-9.90361	30.00000	Averaged
63 Styrene	0.95043	1.07917	1.07917	0.000	-13.54538	30.00000	Averaged
64 o-Xylene	1.43038	1.54443	1.54443	0.000	-7.97333	30.00000	Averaged
65 1,1,2,2-Tetrachloroethane	1.30701	1.31565	1.31565	0.000	-0.66111	30.00000	Averaged
66 1,2,3-Trichloropropane	0.13501	0.13682	0.13682	0.000	-1.33529	30.00000	Averaged
67 Cumene	2.11157	2.36712	2.36712	0.000	-12.10269	30.00000	Averaged
134 a-Pinene	1.21535	1.36632	1.36632	0.000	-12.42146	30.00000	Averaged
68 n-Propylbenzene	0.63642	0.72100	0.72100	0.000	-13.28980	30.00000	Averaged

Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d
 Report Date: 22-Apr-2005 15:58

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: me.i Injection Date: 22-APR-2005 11:19
 Lab File ID: eccvd22.d Init. Cal. Date(s): 21-APR-2005 21-APR-2005
 Analysis Type: AIR Init. Cal. Times: 14:03 18:53
 Lab Sample ID: CCVED22 Quant Type: ISTD
 Method: /var/chem/gcms/me.i/E042205.b/LA.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
135 Camphene	0.99486	1.09980	1.09980	0.000	-10.54912	30.00000	Averaged
146 2-chlorotoluene	0.57721	0.61179	0.61179	0.000	-5.99172	30.00000	Averaged
69 4-Ethyltoluene	2.20284	2.53387	2.53387	0.000	-15.02756	30.00000	Averaged
70 1,3,5-Trimethylbenzene	0.78483	0.84825	0.84825	0.000	-8.08082	30.00000	Averaged
71 Alpha-Methylstyrene	0.92263	1.06582	1.06582	0.000	-15.52086	30.00000	Averaged
136 b-Pinene	1.22091	1.33192	1.33192	0.000	-9.09235	30.00000	Averaged
72 Decane	1.62613	1.77690	1.77690	0.000	-9.27187	30.00000	Averaged
73 1,2,4-Trimethylbenzene	1.61397	1.86095	1.86095	0.000	-15.30283	30.00000	Averaged
141 sec-butylbenzene	2.55057	3.05401	3.05401	0.000	-19.73818	30.00000	Averaged
74 1,3-Dichlorobenzene	1.43583	1.54507	1.54507	0.000	-7.60820	30.00000	Averaged
75 Benzyl Chloride	1.23097	1.48386	1.48386	0.000	-20.54387	30.00000	Averaged
76 1,4-Dichlorobenzene	1.37482	1.49470	1.49470	0.000	-8.71963	30.00000	Averaged
137 p-Cymene	2.11938	2.47681	2.47681	0.000	-16.86478	30.00000	Averaged
138 d-Limonene	0.80252	0.90985	0.90985	0.000	-13.37416	30.00000	Averaged
77 1,2-Dichlorobenzene	1.29631	1.38320	1.38320	0.000	-6.70275	30.00000	Averaged
142 n-butylbenzene	2.04199	2.42696	2.42696	0.000	-18.85275	30.00000	Averaged
78 Undecane	1.72424	2.04162	2.04162	0.000	-18.40730	30.00000	Averaged
139 4-tert-Butyltoluene	2.07251	2.49591	2.49591	0.000	-20.42943	30.00000	Averaged
140 Camphor	0.37593	0.49888	0.49888	0.000	-32.70570	30.00000	Averaged <- NA
79 Dodecane	1.34973	1.58959	1.58959	0.000	-17.77131	30.00000	Averaged
80 1,2,4-Trichlorobenzene	0.56392	0.72424	0.72424	0.000	-28.42980	30.00000	Averaged
81 Napthalene	1.23327	1.62882	1.62882	0.000	-32.07409	30.00000	Averaged <-
82 Hexachlorobutadiene	0.85570	1.01264	1.01264	0.000	-18.34039	30.00000	Averaged

Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d

Report Date: 22-Apr-2005 15:58

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042205.b/eccvd22.d

Lab Smp Id: CCVED22

Client Smp ID: 10PPBV

Inj Date : 22-APR-2005 11:19

Operator : 7126

Inst ID: me.i

Smp Info : CCVED22,,2,3,,10PPBV

Misc Info : E042205,LA,,,100ML

Comment :

Method : /var/chem/gcms/me.i/E042205.b/LA.m

Meth Date : 22-Apr-2005 15:58 wilest

Quant Type: ISTD

Cal Date : 21-APR-2005 18:53

Cal File: eicd215.d

Als bottle: 99

Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
*****	=====	==	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.696	9.696	(1.000)	334573	10.0000	
* 2 1,4-Difluorobenzene	114	11.843	11.843	(1.000)	1313734	10.0000	
* 3 Chlorobenzene-d5	117	16.448	16.448	(1.000)	1297315	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.904)	215365	10.0000	7.130
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1255392	10.0000	10.23
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	1095260	10.0000	10.58
7 Chlorodifluoromethane	51	4.075	4.075	(0.420)	1549838	10.0000	9.552
8 Dichlorodifluoromethane	85	4.150	4.150	(0.428)	1961558	10.0000	9.440
9 Chloromethane	52	4.360	4.360	(0.450)	163423	10.0000	8.938
10 1,2-Dichlorotetrafluoroethane	135	4.376	4.376	(0.451)	1264481	10.0000	9.682
12 Methanol	31	4.532	4.532	(0.467)	268863	40.0000	42.52
11 Vinyl Chloride	62	4.564	4.564	(0.471)	527226	10.0000	9.730
13 1,3-Butadiene	54	4.666	4.666	(0.481)	413684	10.0000	9.730
14 n-Butane	43	4.666	4.666	(0.481)	930106	10.0000	9.376
15 Bromomethane	94	5.043	5.043	(0.520)	588459	10.0000	9.683
16 Chloroethane	64	5.204	5.204	(0.537)	255993	10.0000	9.574
143 Vinyl Bromide	106	5.554	5.554	(0.573)	1165222	10.0000	9.978
17 Trichlorofluoromethane	101	5.861	5.861	(0.604)	2116528	10.0000	9.409
18 Acrolein	56	5.882	5.882	(0.607)	115841	20.0000	18.55
19 Acetonitrile	40	5.957	5.957	(0.614)	145387	20.0000	17.59
20 Acetone	58	6.011	6.011	(0.620)	181556	20.0000	21.38

Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d
 Report Date: 22-Apr-2005 15:58

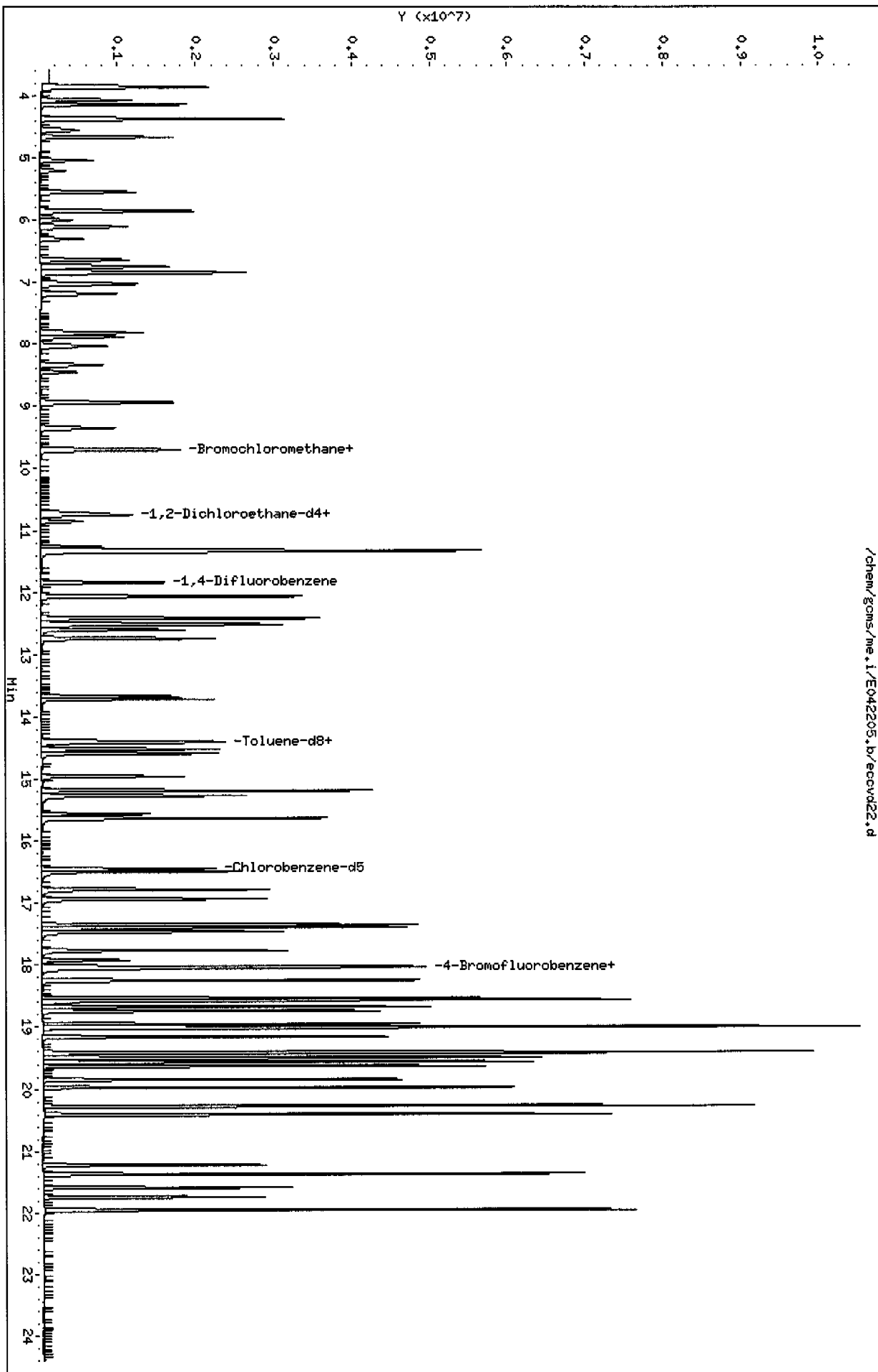
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ppb (v/v))	ON-COL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
21 Pentane	57	6.113	6.113	(0.630)	146005	10.0000	9.493
22 Ethyl Ether	31	6.296	6.296	(0.649)	331497	20.0000	18.16
23 1,1-Dichloroethene	96	6.641	6.641	(0.685)	584829	10.0000	9.858
144 tert-butanol	59	6.748	6.748	(0.696)	2002691	20.0000	20.56
24 Acrylonitrile	53	6.764	6.764	(0.698)	282444	20.0000	19.52
25 1,1,2-Trichlorotrifluoroethane	101	6.840	6.840	(0.705)	1452211	10.0000	9.608
26 Methylene Chloride	84	7.017	7.017	(0.724)	528521	10.0000	9.272
27 3-Chloropropene	39	7.044	7.044	(0.726)	436946	10.0000	8.988
28 Carbon Disulfide	76	7.189	7.189	(0.741)	1828365	10.0000	9.912
133 2,3-Dimethyl butane	43	7.819	7.819	(0.806)	1167132	10.0000	9.504
29 trans-1,2-Dichloroethene	96	7.883	7.883	(0.813)	566505	10.0000	10.05
30 Methyl-t-Butyl Ether	73	8.034	8.034	(0.829)	1037898	20.0000	19.10
31 1,1-Dichloroethane	63	8.335	8.335	(0.860)	1027472	10.0000	9.445
32 Vinyl Acetate	43	8.454	8.454	(0.872)	868951	20.0000	19.18
33 2-Butanone	72	8.922	8.922	(0.920)	183217	20.0000	18.92
34 Hexane	56	8.948	8.948	(0.923)	477243	10.0000	9.818
35 cis 1,2-Dichloroethene	96	9.357	9.357	(0.965)	578323	10.0000	9.791
36 Chloroform	83	9.707	9.707	(1.001)	1115832	10.0000	8.989
37 1,1,1-Trichloroethane	97	10.751	10.751	(1.109)	996656	10.0000	7.782
38 1,2-Dichloroethane	62	10.853	10.853	(0.916)	568863	10.0000	6.206
40 1-Butanol	31	11.267	11.267	(0.951)	330583	20.0000	26.26
39 Benzene	78	11.321	11.321	(0.956)	1639284	10.0000	10.13
41 Cyclohexane	69	11.321	11.321	(0.956)	294045	10.0000	11.22
42 Carbon Tetrachloride	117	11.337	11.337	(0.957)	2088020	10.0000	11.03
145 2,2,4-trimethylpentane	57	12.063	12.063	(1.019)	3239292	10.0000	10.44
43 Heptane	43	12.413	12.413	(1.048)	1699280	10.0000	10.70
44 1,2-Dichloropropane	63	12.504	12.504	(1.056)	610160	10.0000	9.712
45 Trichloroethene	130	12.521	12.521	(1.057)	781729	10.0000	10.04
46 Dibromomethane	93	12.601	12.601	(1.064)	823391	10.0000	9.722
47 Bromodichloromethane	83	12.741	12.741	(1.076)	1550128	10.0000	9.762
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	1480870	20.0000	22.02
49 cis-1,3-Dichloropropene	75	13.709	13.709	(1.158)	1224957	10.0000	10.41
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.874)	773660	10.0000	10.11
51 Toluene	91	14.516	14.516	(0.883)	1707949	10.0000	10.18
52 1,1,2-Trichloroethane	97	14.581	14.581	(0.886)	725759	10.0000	9.410
53 2-Hexanone	58	14.952	14.952	(0.909)	616110	20.0000	19.48
54 Octane	85	15.183	15.183	(0.923)	634469	10.0000	11.08
55 Dibromochloromethane	129	15.270	15.270	(0.928)	1534826	10.0000	10.19
56 1,2-Dibromoethane	107	15.565	15.565	(0.946)	1051011	10.0000	10.04
57 Tetrachloroethene	129	15.630	15.630	(0.950)	795695	10.0000	10.31
58 Chlorobenzene	112	16.496	16.496	(1.003)	1421426	10.0000	9.595
59 Ethylbenzene	91	16.781	16.781	(1.020)	2293102	10.0000	11.07
60 m-Xylene (For p-)	91	16.932	16.932	(1.029)	1860915	10.0000	9.560
62 Nonane	57	17.346	17.346	(1.055)	1418350	10.0000	11.46
61 Bromoform	173	17.378	17.378	(1.057)	1702300	10.0000	10.99
63 Styrene	104	17.394	17.394	(1.058)	1400021	10.0000	11.35
64 o-Xylene	91	17.459	17.459	(1.061)	2003611	10.0000	10.80

Data File: /var/chem/gcms/me.i/E042205.b/eccvd22.d
 Report Date: 22-Apr-2005 15:58

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
-----	----	--	-----	-----	-----	-----	-----
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	1706810	10.0000	10.07
66 1,2,3-Trichloropropane	110	17.922	17.922	(1.090)	177493	10.0000	10.13
67 Cumene	105	18.029	18.029	(1.096)	3070904	10.0000	11.21
134 a-Pinene	93	18.244	18.244	(1.109)	1772545	10.0000	11.24
68 n-Propylbenzene	120	18.530	18.530	(1.127)	935370	10.0000	11.33
135 Camphene	93	18.556	18.556	(1.128)	1426792	10.0000	11.05
146 2-chlorotoluene	126	18.573	18.573	(1.129)	793685	10.0000	10.60
69 4-Ethyltoluene	105	18.675	18.675	(1.135)	3287225	10.0000	11.50
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.139)	1100452	10.0000	10.81
71 Alpha-Methylstyrene	118	18.954	18.954	(1.152)	1382710	10.0000	11.55
136 b-Pinene	93	18.998	18.998	(1.155)	1727919	10.0000	10.91
72 Decane	57	19.008	19.008	(1.156)	2305205	10.0000	10.93
73 1,2,4-Trimethylbenzene	105	19.159	19.159	(1.165)	2414243	10.0000	11.53
141 sec-butylbenzene	105	19.406	19.406	(1.180)	3962009	10.0000	11.97
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	2004447	10.0000	10.76
75 Benzyl Chloride	91	19.487	19.487	(1.185)	1925038	10.0000	12.05
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.185)	1939101	10.0000	10.87
137 p-Cymene	119	19.557	19.557	(1.189)	3213208	10.0000	11.69
138 d-Limonene	68	19.632	19.632	(1.194)	1180361	10.0000	11.34
77 1,2-Dichlorobenzene	146	19.848	19.848	(1.207)	1794443	10.0000	10.67
142 n-butylbenzene	91	19.971	19.971	(1.214)	3148532	10.0000	11.88
78 Undecane	57	20.273	20.273	(1.233)	2648631	10.0000	11.84
139 4-tert-Butyltoluene	133	20.407	20.407	(1.241)	3237987	10.0000	12.04
140 Camphor	95	21.219	21.219	(1.290)	647198	10.0000	13.27
79 Dodecane	57	21.370	21.370	(1.299)	2062204	10.0000	11.78
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.312)	939562	10.0000	12.84
81 Napthalene	128	21.736	21.736	(1.321)	2113098	10.0000	13.21
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	1313713	10.0000	11.83

Data File: /chem/gcms/me.i/E042205.b/eccvd22.d
Date : 22-APR-2005 11:19
Client ID: 10PPBV
Sample Info: CCVED22,2,3,10PPBV
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 7126
Column diameter: 0.32



4/22/2005 5:58:11 PM

Leak Check for C:\Smart\E042205.SEQ

Report File: C:\Smart\E042205.LCR

Leak Check Method: Evacuation

Pressurize/Evacuate time(sec) 30

Equilibration time(sec) 30

Maintanance time(sec) 30

Sample

Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	---	---	1.7	1.8	0.20
1	2	---	---	1.6	1.8	0.40

4/22/2005 6:23:42 PM
Leak Check for C:\Smart\FLUSH.SEQ
Report File: C:\Smart\FLUSH.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 30
Equilibration time(sec) 30
Maintanance time(sec) 30

Sample	Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	---	---	1.7	1.7	0.00	
1	2	---	---	1.6	1.7	0.20	
1	3	---	---	1.7	1.6	-0.20	
1	4	---	---	1.6	1.5	-0.20	
1	5	---	---	1.5	1.4	-0.20	
1	6	---	---	1.6	1.6	0.00	

4/22/2005 6:44:00 PM
Leak Check for C:\Smart\FLUSH.SEQ
Report File: C:\Smart\FLUSH.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 30
Equilibration time(sec) 30
Maintanance time(sec) 30

Sample						
Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	7	---	---	1.6	1.7	0.20
1	8	---	---	1.6	1.6	0.00
1	9	---	---	1.5	1.6	0.20
1	10	---	---	1.5	1.5	0.00
1	11	---	---	1.6	1.6	0.00
1	12	---	---	1.6	1.5	-0.20
1	13	---	---	1.6	1.6	0.00
1	14	---	---	1.6	1.6	0.00

4/24/2005 9:55:20 AM

Leak Check for C:\Smart\E042205.SEQ

Report File: C:\Smart\E042205.LCR

Leak Check Method: Evacuation

Pressurize/Evacuate time(sec) 30

Equilibration time(sec) 30

Maintanance time(sec) 30

Sample

Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	--	--	1.6	1.6	0.00

Raw QC Data

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D210000 - 152B

Work Order # G8TNA1AA

Matrix.....: AIR

Prep Date.....: 4/20/05

Date Received..: 4/2/05

Prep Batch #.....: 5111152

Analysis Date... 4/20/05

Dilution Factor.: 1

Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	2.6
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D210000 - 152B **Work Order #** G8TNA1AA **Matrix.....:** AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
None		

URS Corporation
 Client Sample ID: INTRA-LAB BLANK
 GC/MS Volatiles

Lot-Sample # H5D210000 - 152B Work Order # G8TNA1AA Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	96	70 - 130
Toluene-d8	91	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/5442a.d
 Lab Smp Id: G8TNA1AA Client Smp ID: BLANK
 Inj Date : 20-APR-2005 14:44
 Operator : 7126 Inst ID: mt.i
 Smp Info : 5442,,3,,BLK 5442
 Misc Info : T041905,LA,,,500ML
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 10:17 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 16 QC Sample: BLK 5442
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ppb (v/v))	(ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128		10.114	10.111	(1.000)		139775	10.0000	
* 2 1,4-Difluorobenzene	114		12.179	12.185	(1.000)		458591	10.0000	
* 3 Chlorobenzene-d5	117		16.707	16.714	(1.000)		437066	10.0000	
\$ 4 1,2-Dichloroethane-d4	67		11.085	11.092	(0.910)		90245	9.63445	9.634
\$ 5 Toluene-d8	98		14.695	14.701	(0.880)		375168	9.10267	9.103
\$ 6 4-Bromofluorobenzene	95		18.278	18.284	(1.094)		306827	10.2255	10.22
12 Methanol	31		4.943	4.906	(0.489)		3154	0.58073	0.5807
20 Acetone	58		6.470	6.424	(0.640)		1660	0.34229	0.3423
48 4-Methyl-2-pentanone	43		13.975	13.955	(1.147)		6235	0.27957	0.2796
53 2-Hexanone	58		15.241	15.230	(0.912)		2811	0.24739	0.2474

OK 2/05

NT
4/21/05

Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i
 Lab File ID: 5442a.d
 Lab Smp Id: G8TNA1AA
 Analysis Type: OTHER
 Quant Type: ISTD
 Operator: 7126
 Method File: /var/chem/gcms/mt.i/T042005.b/LA.m
 Misc Info: T041905,LA,,,,500ML

Calibration Date: 20-APR-2005
 Calibration Time: 11:25
 Client Smp ID: BLANK
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	139888	83233	196543	139775	-0.08
2 1,4-Difluorobenze	473126	281510	664742	458591	-3.07
3 Chlorobenzene-d5	435347	259031	611663	437066	0.39

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	10.11	9.78	10.44	10.11	0.02
2 1,4-Difluorobenze	12.18	11.85	12.51	12.18	-0.05
3 Chlorobenzene-d5	16.71	16.38	17.04	16.71	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

RECOVERY REPORT

Client Name:	Client SDG: T041905
Sample Matrix: GAS	Fraction: OTHER
Lab Smp Id: G8TNA1AA	Client Smp ID: BLANK
Level: LOW	Operator: 7126
Data Type: MS DATA	SampleType: BLK 5442
SpikeList File: all.spk	Quant Type: ISTD
Sublist File: 1-all.sub	
Method File: /var/chem/gcms/mt.i/T042005.b/LA.m	
Misc Info: T041905,LA,,,,500ML	

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	9.634	96.34	70-130
\$ 5 Toluene-d8	10.00	9.103	91.03	70-130
\$ 6 4-Bromofluorobenze	10.00	10.22	102.26	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d

Date: 20-APR-2005 14:44

Client ID: BLANK

Sample Info: 5442,,3,,BLK 5442

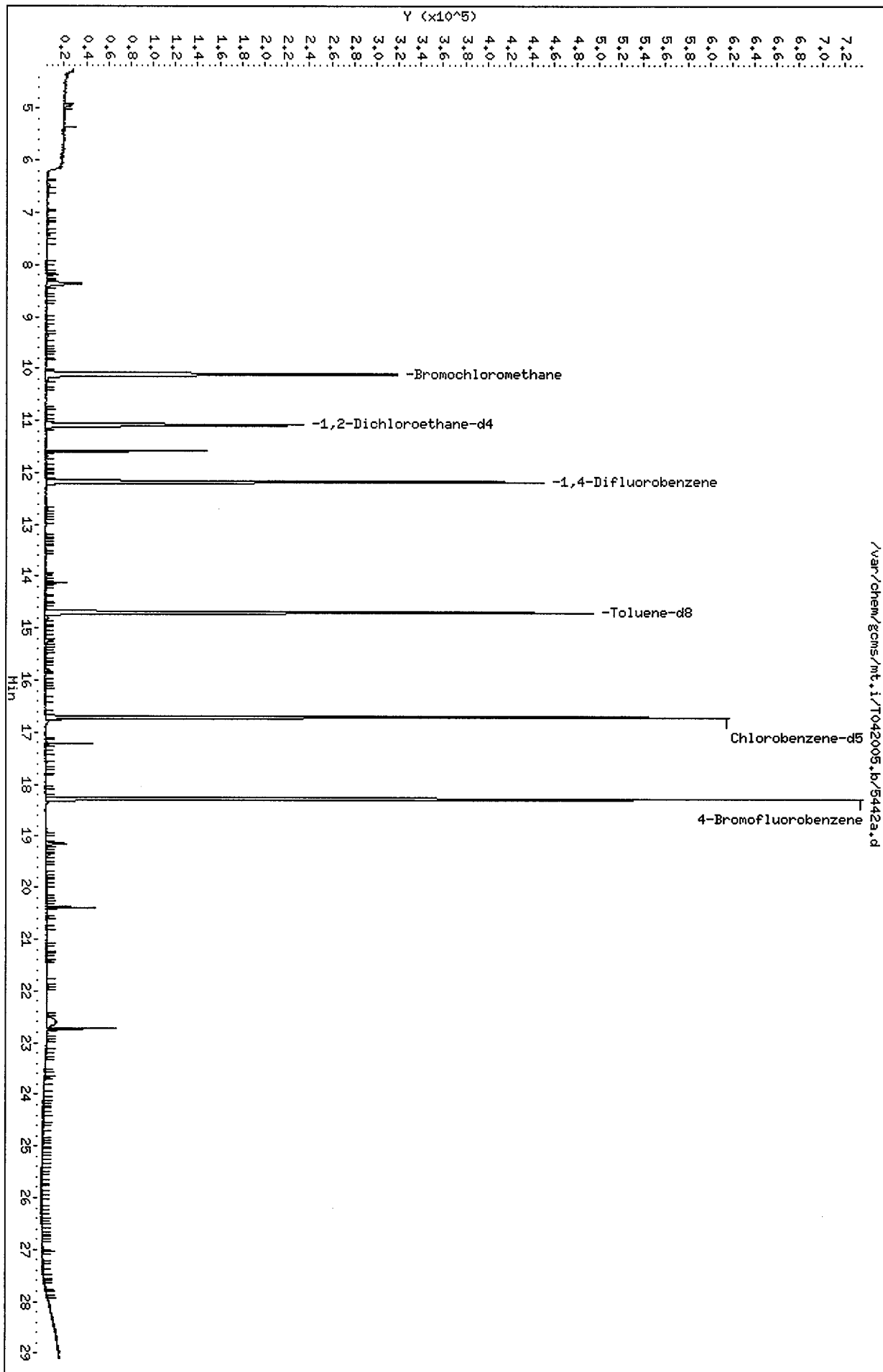
Volume Injected (uL): 500.0

Column phase: DB-5

Instrument: mt.i

Operator: 7126

Column diameter: 0.32



Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d

Report Date: 21-Apr-2005 12:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mt.i/T042005.b/5442a.d

Lab Smp Id: G8TNA1AA

Client Smp ID: BLANK

Inj Date : 20-APR-2005 14:44

Operator : 7126

Inst ID: mt.i

Smp Info : 5442,,3,,BLK 5442

Misc Info : T041905,LA,,,500ML

Comment :

Method : /var/chem/gcms/mt.i/T042005.b/LA.m

Meth Date : 21-Apr-2005 12:22 tajh

Quant Type: ISTD

Cal Date : 15-APR-2005 18:46

Cal File: ticd155.d

Als bottle: 16

QC Sample: BLK 5442

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 1-all.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	10.114	315231	10.000
* 2 1,4-Difluorobenzene	12.179	446384	10.000

CONCENTRATIONS				QUANT			
RT	HEIGHT	ON-COL (ppb (v/v))	FINAL (ppb (v/v))	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Silanol, trimethyl-					CAS #: 1066-40-6		
8.370	31829	1.00970399	1.010	83	NIST02.1	2204	1
Propiolic acid					CAS #: 471-25-0		
11.589	144725	3.24216370	3.242	1	NIST02.1	484	2

Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d

Date : 20-APR-2005 14:44

Client ID: BLANK

Instrument: mt.i

Sample Info: 5442,,3,,BLK 5442

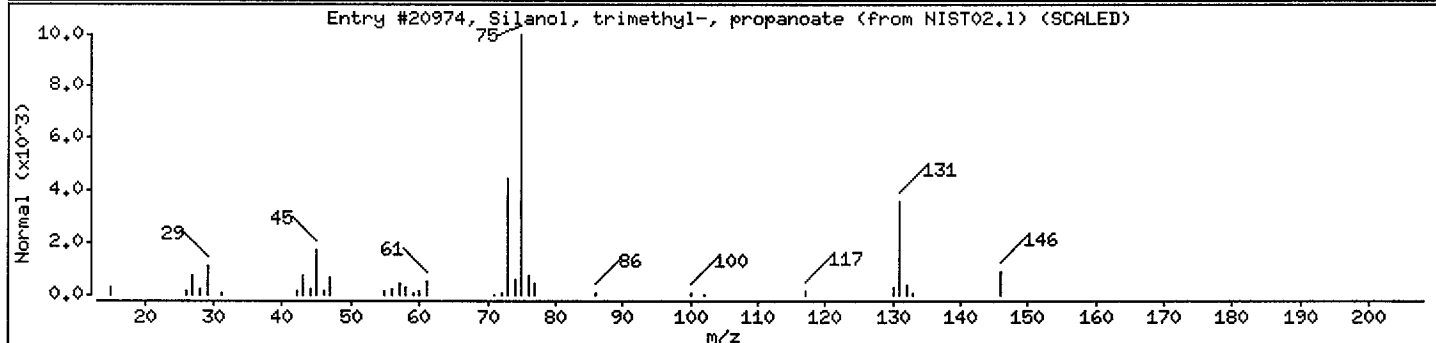
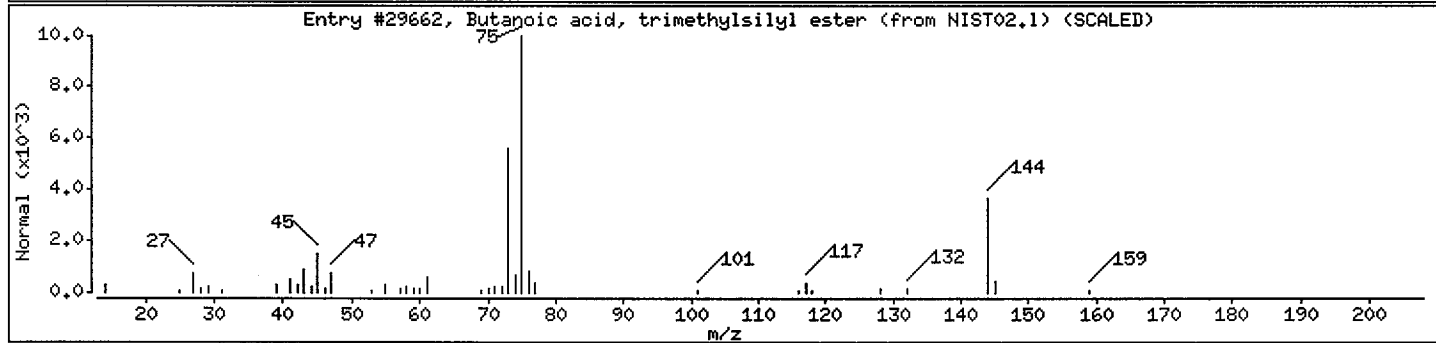
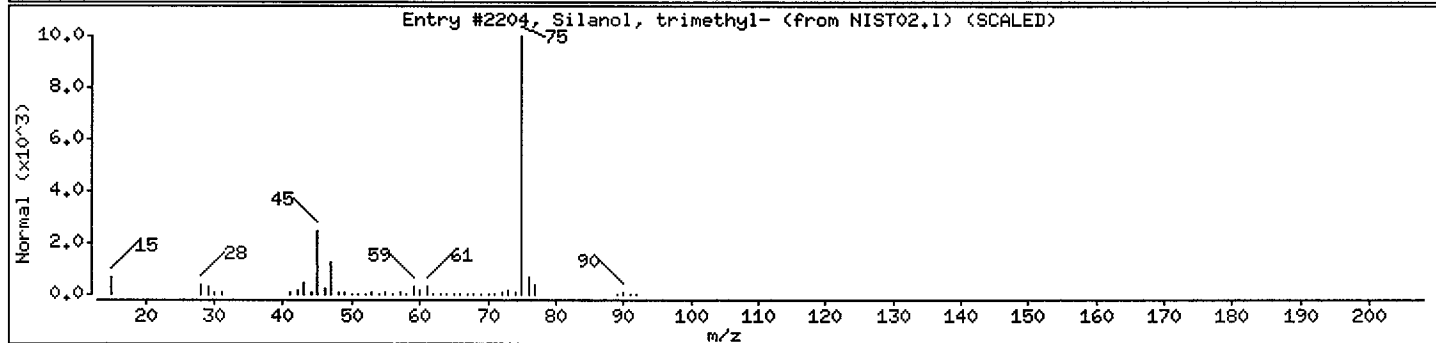
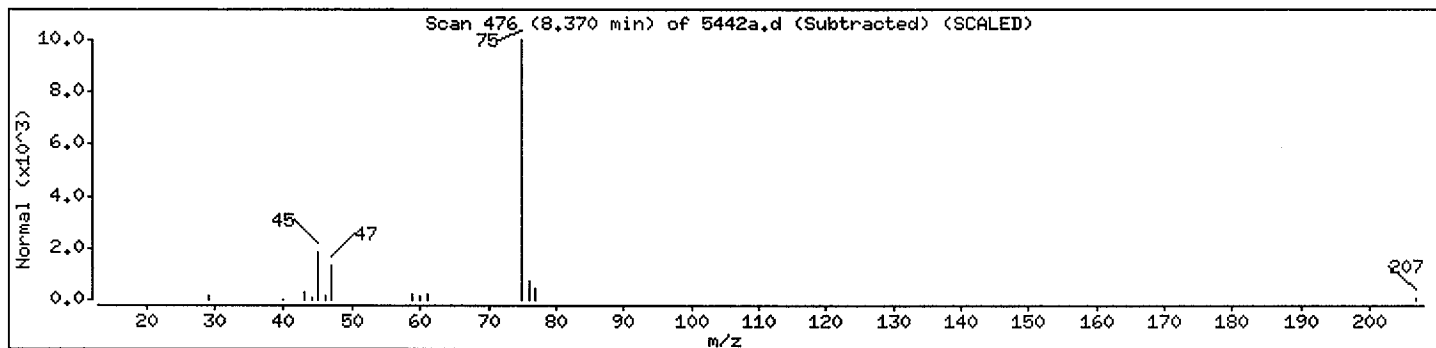
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Silanol, trimethyl-	1066-40-6	NIST02.1	2204	83	C ₃ H ₁₀ OSi	90
Butanoic acid, trimethylsilyl ester	16844-99-8	NIST02.1	29662	64	C ₇ H ₁₆ O ₂ Si	160
Silanol, trimethyl-, propanoate	16844-98-7	NIST02.1	20974	64	C ₆ H ₁₄ O ₂ Si	146



Data File: /var/chem/gcms/mt.i/T042005.b/5442a.d

Date : 20-APR-2005 14:44

Client ID: BLANK

Instrument: mt.i

Sample Info: 5442,,3,,BLK 5442

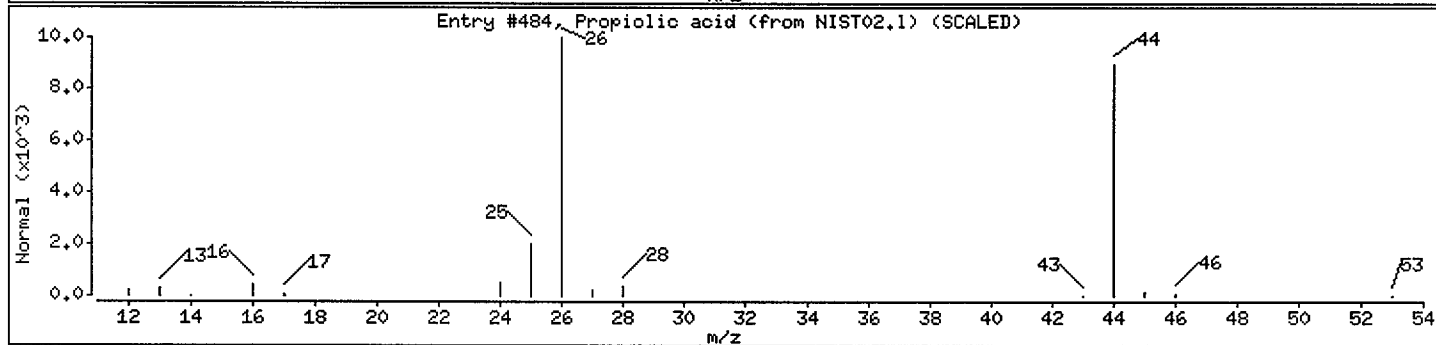
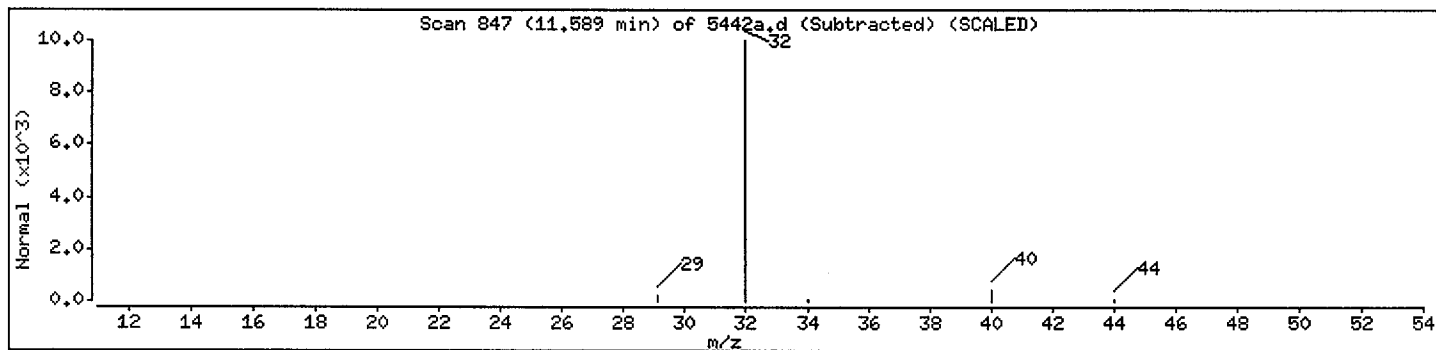
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propiolic acid	471-25-0	NIST02.1	484	1	C3H2O2	70



URS Corporation
Client Sample ID: CHECK SAMPLE
GC/MS Volatiles

Lot-Sample # H5D210000 - 152C **Work Order #** G8TNA1AC **Matrix.....:** AIR

Prep Date.....: 4/20/05 **Date Received...:** 4/2/05
Prep Batch #.....: 5111152 **Analysis Date...:** 4/20/05
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1-Dichloroethene	10.0	11.1	40	44	111	70 - 130
Benzene	10.0	11.2	32	36	112	70 - 130
Trichloroethene	10.0	13.7	54	74	137	a 70 - 130
Toluene	10.0	10.1	38	38	101	70 - 130
Chlorobenzene	10.0	10.8	46	50	108	70 - 130

URS Corporation
 Client Sample ID: CHECK SAMPLE
 GC/MS Volatiles

Lot-Sample # H5D210000 - 152C	Work Order # G8TNA1AC	Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>LABORATORY CONTROL LIMITS (%)</u>
1,2-Dichloroethane-d4	93	70 - 130
Toluene-d8	92	70 - 130
4-Bromofluorobenzene	101	70 - 130

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Lab Smp Id: G8TNA1AC Client Smp ID: LCS
 Inj Date : 20-APR-2005 13:13
 Operator : 7126 Inst ID: mt.i
 Smp Info : LCSTD20,,3,,LCS
 Misc Info : T042005,LA,,,,100ML CX-1313
 Comment :
 Method : /var/chem/gcms/mt.i/T042005.b/LA.m
 Meth Date : 21-Apr-2005 10:17 tajh Quant Type: ISTD
 Cal Date : 15-APR-2005 18:46 Cal File: ticd155.d
 Als bottle: 14 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

uf2705

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb (v/v)) (ppb (v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	10.114	10.111	(1.000)	139129	10.0000	
* 2 1,4-Difluorobenzene	114	12.179	12.185	(1.000)	445231	10.0000	
* 3 Chlorobenzene-d5	117	16.708	16.714	(1.000)	410484	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	11.086	11.092	(0.910)	84286	9.26831	9.268
\$ 5 Toluene-d8	98	14.695	14.701	(0.880)	354602	9.16082	9.161
\$ 6 4-Bromofluorobenzene	95	18.278	18.284	(1.094)	285122	10.1175	10.12
7 Chlorodifluoromethane	51	4.405	4.402	(0.436)	513514	10.4600	10.46
8 Dichlorodifluoromethane	85	4.483	4.481	(0.443)	691421	11.2521	11.25
9 Chloromethane	52	4.709	4.706	(0.466)	79249	10.1652	10.16
10 1,2-Dichlorotetrafluoroethane	135	4.718	4.723	(0.466)	446497	11.7870	11.79
11 Vinyl Chloride	62	4.917	4.923	(0.486)	261458	11.0494	11.05
12 Methanol	31	4.900	4.906	(0.484)	180366	33.3621	33.36
13 1,3-Butadiene	54	5.030	5.036	(0.497)	177958	10.4008	10.40
14 n-Butane	43	5.030	5.036	(0.497)	397795	9.83497	9.835
15 Bromomethane	94	5.420	5.426	(0.536)	311057	11.4284	11.43
16 Chloroethane	64	5.594	5.600	(0.553)	139248	10.4645	10.46
17 Trichlorofluoromethane	101	6.262	6.268	(0.619)	599770	10.8202	10.82
18 Acrolein	56	6.279	6.285	(0.621)	61495	15.9040	15.90
19 Acetonitrile	40	6.357	6.363	(0.629)	77859	14.9049	14.90
20 Acetone	58	6.418	6.424	(0.635)	77235	15.9942	15.99
21 Pentane	57	6.522	6.528	(0.645)	63633	9.99671	9.997

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
22 Ethyl Ether	31	6.713	6.719	(0.664)	234238	15.3927	15.39
23 1,1-Dichloroethene	96	7.051	7.057	(0.697)	250264	11.1291	11.13
24 Acrylonitrile	53	7.182	7.179	(0.710)	125781	16.5099	16.51
25 1,1,2-Trichlorotrifluoroethane	101	7.260	7.266	(0.718)	518792	10.7141	10.71
26 Methylene Chloride	84	7.433	7.430	(0.735)	235802	10.9345	10.93
27 3-Chloropropene	39	7.451	7.456	(0.737)	208907	10.6465	10.65
28 Carbon Disulfide	76	7.615	7.621	(0.753)	835861	10.8990	10.90
29 trans-1,2-Dichloroethene	96	8.301	8.307	(0.821)	253472	11.3463	11.35
30 Methyl-t-Butyl Ether	73	8.457	8.463	(0.836)	403499	17.3512	17.35
31 1,1-Dichloroethane	63	8.752	8.758	(0.865)	401974	10.0769	10.08
32 Vinyl Acetate	43	8.865	8.871	(0.876)	469246	17.1213	17.12
33 2-Butanone	72	9.342	9.348	(0.924)	80306	17.1717	17.17
34 Hexane	56	9.368	9.374	(0.926)	192742	10.5860	10.59
35 cis 1,2-Dichloroethene	96	9.776	9.773	(0.967)	247472	10.9898	10.99
36 Chloroform	83	10.123	10.120	(1.001)	482894	11.1597	11.16
37 1,1,1-Trichloroethane	97	11.138	11.135	(1.101)	415226	10.9952	11.00
38 1,2-Dichloroethane	62	11.225	11.231	(0.922)	255254	11.2981	11.30
39 Benzene	78	11.685	11.690	(0.959)	528440	11.1465	11.15
40 1-Butanol	31	11.615	11.630	(0.954)	135299	26.7353	26.74
41 Cyclohexane	69	11.693	11.699	(0.960)	100905	12.3450	12.34
42 Carbon Tetrachloride	117	11.711	11.716	(1.158)	459296	11.2500	11.25
43 Heptane	43	12.743	12.740	(1.046)	448245	12.1311	12.13
44 1,2-Dichloropropane	63	12.830	12.827	(1.053)	185995	10.4794	10.48
45 Trichloroethene	130	12.856	12.853	(1.056)	320045	13.6844	13.68(R)
46 Dibromomethane	93	12.925	12.931	(1.061)	281803	12.0478	12.05
47 Bromodichloromethane	83	13.064	13.061	(1.073)	461076	12.0955	12.10
48 4-Methyl-2-pentanone	43	13.958	13.955	(1.146)	470581	21.7333	21.73
49 cis-1,3-Dichloropropene	75	14.010	14.007	(1.150)	374591	11.4495	11.45
50 trans-1,3-Dichloropropene	75	14.660	14.666	(0.877)	212393	10.3936	10.39
51 Toluene	91	14.808	14.805	(0.886)	499335	10.1455	10.14
52 1,1,2-Trichloroethane	97	14.860	14.866	(0.889)	199545	10.0658	10.06
53 2-Hexanone	58	15.224	15.230	(0.911)	240427	22.5279	22.53
54 Octane	85	15.450	15.456	(0.925)	205636	11.8843	11.88
55 Dibromochloromethane	129	15.545	15.551	(0.930)	466309	12.1357	12.14
56 1,2-Dibromoethane	107	15.840	15.838	(0.948)	347972	10.6304	10.63
57 Tetrachloroethene	129	15.910	15.907	(0.952)	263838	12.4743	12.47
58 Chlorobenzene	112	16.760	16.757	(1.003)	443950	10.8133	10.81
59 Ethylbenzene	91	17.038	17.035	(1.020)	535129	9.01612	9.016
60 m-Xylene (For p-)	91	17.185	17.191	(1.029)	393923	8.81393	8.814
61 Bromoform	173	17.628	17.634	(1.055)	415423	12.1134	12.11
62 Nonane	57	17.584	17.590	(1.052)	389304	11.0981	11.10
63 Styrene	104	17.645	17.642	(1.056)	284067	9.50683	9.507
64 o-Xylene	91	17.706	17.712	(1.060)	403157	8.94347	8.943
65 1,1,2,2-Tetrachloroethane	83	17.992	17.998	(1.077)	360398	8.49766	8.498
66 1,2,3-Trichloropropane	110	18.148	18.154	(1.086)	58224	9.31094	9.311
67 Cumene	105	18.252	18.258	(1.092)	525224	8.65300	8.653
68 n-Propylbenzene	120	18.747	18.753	(1.122)	149227	8.84345	8.843

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppb (v/v))	FINAL (ppb (v/v))
=====	=====	==	=====	=====	=====	=====	=====
69 4-Ethyltoluene	105	18.886	18.883	(1.130)	544893	8.66785	8.668
70 1,3,5-Trimethylbenzene	120	18.955	18.952	(1.134)	210688	9.00384	9.004
71 Alpha-Methylstyrene	118	19.163	19.161	(1.147)	236250	9.52445	9.524
72 Decane	57	19.207	19.213	(1.150)	392713	9.55841	9.558
73 1,2,4-Trimethylbenzene	105	19.363	19.360	(1.159)	434191	8.82116	8.821
74 1,3-Dichlorobenzene	146	19.623	19.620	(1.174)	387542	10.4105	10.41
75 Benzyl Chloride	91	19.684	19.690	(1.178)	388378	8.92779	8.928
76 1,4-Dichlorobenzene	146	19.701	19.698	(1.179)	381739	10.1928	10.19
77 1,2-Dichlorobenzene	146	20.040	20.046	(1.199)	349347	9.83214	9.832
78 Undecane	57	20.456	20.462	(1.224)	416507	10.1144	10.11
79 Dodecane	57	21.567	21.564	(1.291)	368845	11.4395	11.44
80 1,2,4-Trichlorobenzene	180	21.801	21.798	(1.305)	247716	11.1650	11.16
81 Napthalene	128	21.957	21.963	(1.314)	426647	8.58539	8.585
82 Hexachlorobutadiene	225	22.191	22.189	(1.328)	173479	9.61716	9.617
133 2,3-Dimethyl butane	43	8.240	8.246	(0.815)	508147	9.79026	9.790
134 a-Pinene	93	18.469	18.475	(1.105)	397794	10.2035	10.20
135 Camphene	93	18.773	18.779	(1.124)	239123	9.41949	9.419
136 b-Pinene	93	19.207	19.213	(1.150)	311001	7.69329	7.693
137 p-Cymene	119	19.753	19.759	(1.182)	471120	8.23532	8.235
138 d-Limonene	68	19.823	19.829	(1.186)	204342	8.46711	8.467
139 4-tert-Butyltoluene	133	20.595	20.601	(1.233)	416945	8.73652	8.736
140 Camphor	95	21.428	21.434	(1.282)	125611	12.9799	12.98
141 sec-butylbenzene	105	19.606	19.603	(1.173)	577136	8.05859	8.058
142 n-butylbenzene	91	20.161	20.167	(1.207)	453715	7.98370	7.984
143 Vinyl Bromide	106	5.950	5.955	(0.588)	475466	10.5306	10.53
144 tert-butanol	59	7.164	7.170	(0.708)	579136	16.6946	16.69
145 2,2,4-trimethylpentane	57	12.405	12.411	(1.019)	1008551	11.6321	11.63
146 2-chlorotoluene	126	18.790	18.796	(1.125)	139642	9.03079	9.031

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mt.i	Calibration Date: 20-APR-2005
Lab File ID: tlcsd20a.d	Calibration Time: 11:25
Lab Smp Id: G8TNA1AC	Client Smp ID: LCS
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 7126	
Method File: /var/chem/gcms/mt.i/T042005.b/LA.m	
Misc Info: T042005,LA,,,100ML CX-1313	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	139888	83233	196543	139129	-0.54
2 1,4-Difluorobenze	473126	281510	664742	445231	-5.90
3 Chlorobenzene-d5	435347	259031	611663	410484	-5.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	10.11	9.78	10.44	10.11	0.03
2 1,4-Difluorobenze	12.18	11.85	12.51	12.18	-0.05
3 Chlorobenzene-d5	16.71	16.38	17.04	16.71	-0.04

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

STL Knoxville

RECOVERY REPORT

Client Name: Client SDG: T042005
 Sample Matrix: GAS Fraction: OTHER
 Lab Smp Id: G8TNA1AC Client Smp ID: LCS
 Level: LOW Operator: 7126
 Data Type: MS DATA SampleType: LCS
 SpikeList File: all.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /var/chem/gcms/mt.i/T042005.b/LA.m
 Misc Info: T042005,LA,,,,100ML CX-1313

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
7 Chlorodifluorometh	10.00	10.46	104.60	70-130
8 Dichlorodifluorome	10.00	11.25	112.52	70-130
9 Chloromethane	10.00	10.16	101.65	70-130
10 1,2-Dichlorotetra	10.00	11.79	117.87	70-130
11 Vinyl Chloride	10.00	11.05	110.49	70-130
12 Methanol	40.00	33.36	83.41	60-140
13 1,3-Butadiene	10.00	10.40	104.01	70-130
14 n-Butane	10.00	9.835	98.35	70-130
15 Bromomethane	10.00	11.43	114.28	70-130
16 Chloroethane	10.00	10.46	104.65	70-130
17 Trichlorofluoromet	10.00	10.82	108.20	70-130
18 Acrolein	20.00	15.90	79.52	60-140
19 Acetonitrile	20.00	14.90	74.52	60-140
20 Acetone	20.00	15.99	79.97	60-140
21 Pentane	10.00	9.997	99.97	70-130
22 Ethyl Ether	20.00	15.39	76.96	60-140
23 1,1-Dichloroethene	10.00	11.13	111.29	70-130
24 Acrylonitrile	20.00	16.51	82.55	60-140
25 1,1,2-Trichlorotri	10.00	10.71	107.14	70-130
26 Methylene Chloride	10.00	10.93	109.34	70-130
27 3-Chloropropene	10.00	10.65	106.47	70-130
28 Carbon Disulfide	10.00	10.90	108.99	70-130
29 trans-1,2-Dichloro	10.00	11.35	113.46	70-130
30 Methyl-t-Butyl Eth	20.00	17.35	86.76	60-140
31 1,1-Dichloroethane	10.00	10.08	100.77	70-130
32 Vinyl Acetate	20.00	17.12	85.61	60-140
33 2-Butanone	20.00	17.17	85.86	60-140
34 Hexane	10.00	10.59	105.86	70-130
35 cis 1,2-Dichloroet	10.00	10.99	109.90	70-130
36 Chloroform	10.00	11.16	111.60	70-130
37 1,1,1-Trichloroeth	10.00	11.00	109.95	70-130
38 1,2-Dichloroethane	10.00	11.30	112.98	70-130
39 Benzene	10.00	11.15	111.47	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
 Report Date: 21-Apr-2005 12:21

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
40 1-Butanol	20.00	26.74	133.68	60-140
41 Cyclohexane	10.00	12.34	123.45	70-130
42 Carbon Tetrachlori	10.00	11.25	112.50	70-130
43 Heptane	10.00	12.13	121.31	70-130
44 1,2-Dichloropropan	10.00	10.48	104.79	70-130
45 Trichloroethene	10.00	13.68	136.84*	70-130
46 Dibromomethane	10.00	12.05	120.48	70-130
47 Bromodichlorometha	10.00	12.10	120.96	70-130
48 4-Methyl-2-pentano	20.00	21.73	108.67	60-140
49 cis-1,3-Dichloropr	10.00	11.45	114.50	70-130
50 trans-1,3-Dichloro	10.00	10.39	103.94	70-130
51 Toluene	10.00	10.14	101.46	70-130
52 1,1,2-Trichloroeth	10.00	10.06	100.66	70-130
53 2-Hexanone	20.00	22.53	112.64	60-140
54 Octane	10.00	11.88	118.84	70-130
55 Dibromochlorometha	10.00	12.14	121.36	70-130
56 1,2-Dibromoethane	10.00	10.63	106.30	70-130
57 Tetrachloroethene	10.00	12.47	124.74	70-130
58 Chlorobenzene	10.00	10.81	108.13	70-130
59 Ethylbenzene	10.00	9.016	90.16	70-130
60 m-Xylene (For p-)	10.00	8.814	88.14	70-130
61 Bromoform	10.00	12.11	121.13	70-130
62 Nonane	10.00	11.10	110.98	70-130
63 Styrene	10.00	9.507	95.07	70-130
64 o-Xylene	10.00	8.943	89.43	70-130
65 1,1,2,2-Tetrachlor	10.00	8.498	84.98	70-130
66 1,2,3-Trichloropro	10.00	9.311	93.11	60-140
67 Cumene	10.00	8.653	86.53	70-130
68 n-Propylbenzene	10.00	8.843	88.43	70-130
69 4-Ethyltoluene	10.00	8.668	86.68	70-130
70 1,3,5-Trimethylben	10.00	9.004	90.04	70-130
71 Alpha-Methylstyren	10.00	9.524	95.24	70-130
72 Decane	10.00	9.558	95.58	70-130
73 1,2,4-Trimethylben	10.00	8.821	88.21	70-130
74 1,3-Dichlorobenzen	10.00	10.41	104.11	70-130
75 Benzyl Chloride	10.00	8.928	89.28	70-130
76 1,4-Dichlorobenzen	10.00	10.19	101.93	70-130
77 1,2-Dichlorobenzen	10.00	9.832	98.32	70-130
78 Undecane	10.00	10.11	101.14	70-130
79 Dodecane	10.00	11.44	114.40	70-130
80 1,2,4-Trichloroben	10.00	11.16	111.65	70-130
81 Napthalene	10.00	8.585	85.85	70-130
82 Hexachlorobutadien	10.00	9.617	96.17	70-130
133 2,3-Dimethyl butan	10.00	9.790	97.90	70-130
134 a-Pinene	10.00	10.20	102.03	70-130
135 Camphene	10.00	9.419	94.19	70-130
136 b-Pinene	10.00	7.693	76.93	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d

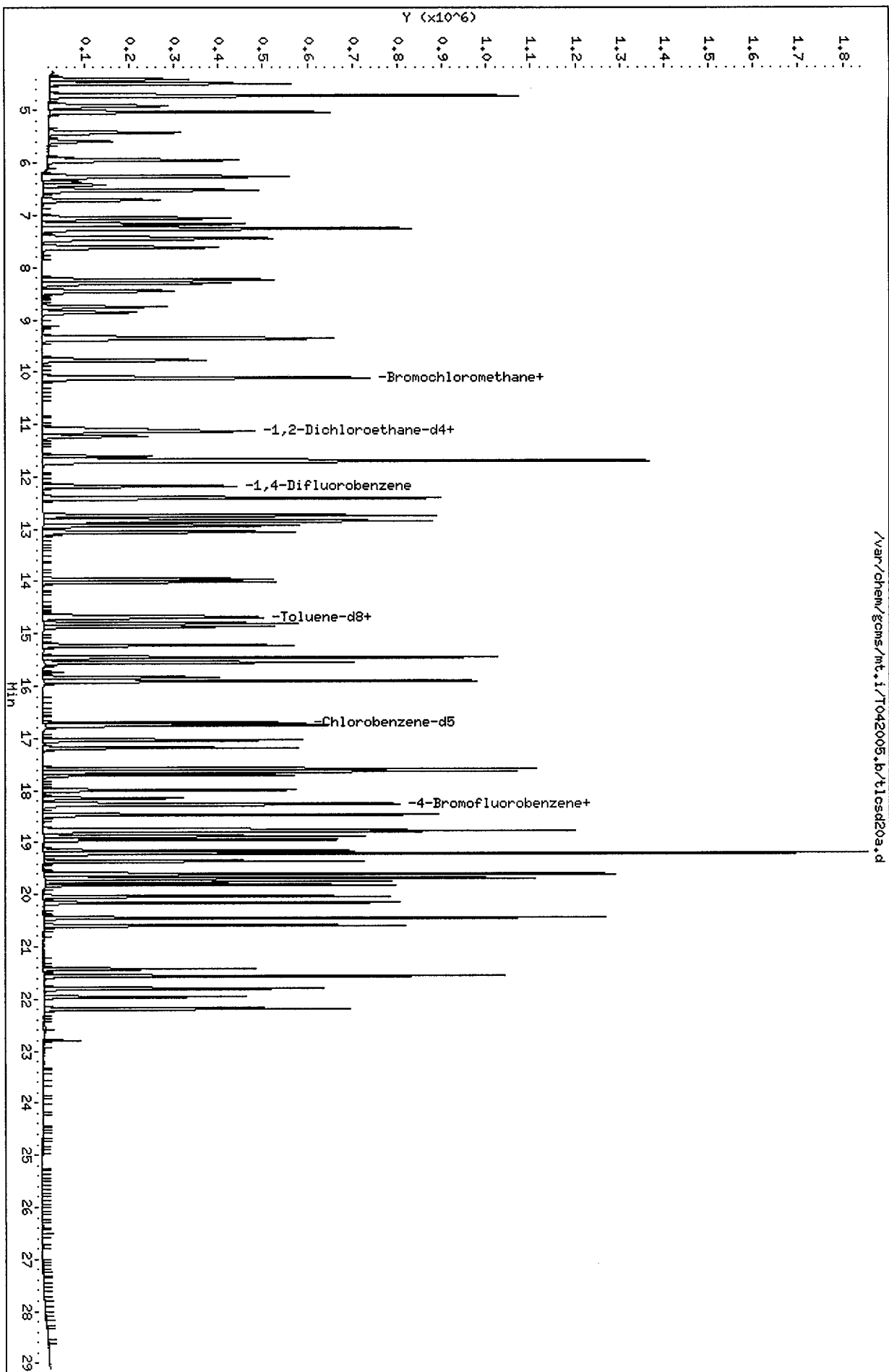
Report Date: 21-Apr-2005 12:21

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
137 p-Cymene	10.00	8.235	82.35	70-130
138 d-Limonene	10.00	8.467	84.67	70-130
139 4-tert-Butyltoluen	10.00	8.736	87.37	70-130
140 Camphor	10.00	12.98	129.80	70-130
141 sec-butylbenzene	10.00	8.058	80.59	70-130
142 n-butylbenzene	10.00	7.984	79.84	70-130
143 Vinyl Bromide	10.00	10.53	105.31	70-130
144 tert-butanol	20.00	16.69	83.47	70-130
145 2,2,4-trimethylpen	10.00	11.63	116.32	70-130
146 2-chlorotoluene	10.00	9.031	90.31	70-130

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	9.268	92.68	70-130
\$ 5 Toluene-d8	10.00	9.161	91.61	70-130
\$ 6 4-Bromofluorobenze	10.00	10.12	101.18	70-130

Data File: /var/chem/gcms/mt.i/T042005.b/tlcsd20a.d
Date: 20-APR-2005 13:13
Client ID: LCS
Sample Info: LCSTD0,3,LCS
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: mt.i
Operator: 7126
Column diameter: 0.32



URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B **Work Order #** G83441AA **Matrix.....:** AIR

Prep Date.....: 4/22/05 **Date Received...:** 4/4/05
Prep Batch #.....: 5114026 **Analysis Date...:** 4/22/05
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
Cumene	ND	0.20	ND	0.98
Naphthalene	ND	0.50	ND	1.0
n-Octane	ND	0.20	ND	0.93
Pentane	ND	0.50	ND	1.5
Methyl tert-butyl ether	ND	0.50	ND	1.8
n-Decane	ND	0.20	ND	1.2
n-Dodecane	ND	1.0	ND	7.0
n-Undecane	ND	0.20	ND	1.3
Nonane	ND	0.20	ND	1.0
n-Butane	ND	0.20	ND	0.48
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B **Work Order #** G83441AA **Matrix.....:** AIR

<u>PARAMETER</u>	<u>RESULTS (ppb(v/v))</u>	<u>REPORTING LIMIT (ppb(v/v))</u>	<u>RESULTS (ug/m3)</u>	<u>REPORTING LIMIT (ug/m3)</u>
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

<u>TENTATIVELY IDENTIFIED COMPOUNDS</u>	<u>RESULT</u>	<u>UNITS</u>
None		

URS Corporation
Client Sample ID: INTRA-LAB BLANK
GC/MS Volatiles

Lot-Sample # H5D240000 - 026B **Work Order #** G83441AA **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	104	70 - 130
Toluene-d8	102	70 - 130
4-Bromofluorobenzene	87	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E042205.b/ebld22a.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/me.i/E042205.b/ebld22a.d
 Lab Smp Id: G83441AA Client Smp ID: BLK
 Inj Date : 22-APR-2005 13:14
 Operator : 7126 Inst ID: me.i
 Smp Info : EBLKD22,,3,,,BLK
 Misc Info : E042205,LA,,,500ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 11:15 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 16 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

✓
042205

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ppb(v/v))	(ppb(v/v))
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128		9.691	9.696	(1.000)		373099	10.0000	
* 2 1,4-Difluorobenzene	114		11.843	11.843	(1.000)		1362183	10.0000	
* 3 Chlorobenzene-d5	117		16.448	16.448	(1.000)		1271736	10.0000	
\$ 4 1,2-Dichloroethane-d4	67		10.708	10.708	(0.904)		324631	10.3660	10.37
\$ 5 Toluene-d8	98		14.403	14.403	(0.876)		1221474	10.1540	10.15
\$ 6 4-Bromofluorobenzene	95		18.051	18.051	(1.097)		886896	8.73935	8.739
9 Chloromethane	52		4.413	4.360	(0.455)		1428	0.07008	~~0.07008~~
12 Methanol	31		4.553	4.532	(0.470)		3826	0.54269	0.5427
14 n-Butane	43		4.569	4.666	(0.472)		4575	0.04136	~~0.04136~~
20 Acetone	58		6.049	6.011	(0.624)		4094	0.43229	0.4323
52 1,1,2-Trichloroethane	97		14.414	14.581	(0.876)		142763	1.88826	~~1.888~~
60 m-Xylene (For p-)	91		16.937	16.932	(1.030)		1715	0.15769	~~0.1577~~
66 1,2,3-Trichloropropane	110		18.056	17.922	(1.098)		703	0.04096	~~0.04096~~

4/24/05

Data File: /var/chem/gcms/me.i/E042205.b/eblkd22a.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i	Calibration Date: 22-APR-2005
Lab File ID: eblkd22a.d	Calibration Time: 11:19
Lab Smp Id: G83441AA	Client Smp ID: BLK
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 7126	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,,,500ML	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	334573	199071	470075	.373099	11.51
2 1,4-Difluorobenze	1313734	781672	1845796	1362183	3.69
3 Chlorobenzene-d5	1297315	771902	1822728	1271736	-1.97

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 Bromochloromethan	9.70	9.37	10.03	9.69	-0.06
2 1,4-Difluorobenze	11.84	11.51	12.17	11.84	0.00
3 Chlorobenzene-d5	16.45	16.12	16.78	16.45	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042205.b/ebld22a.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

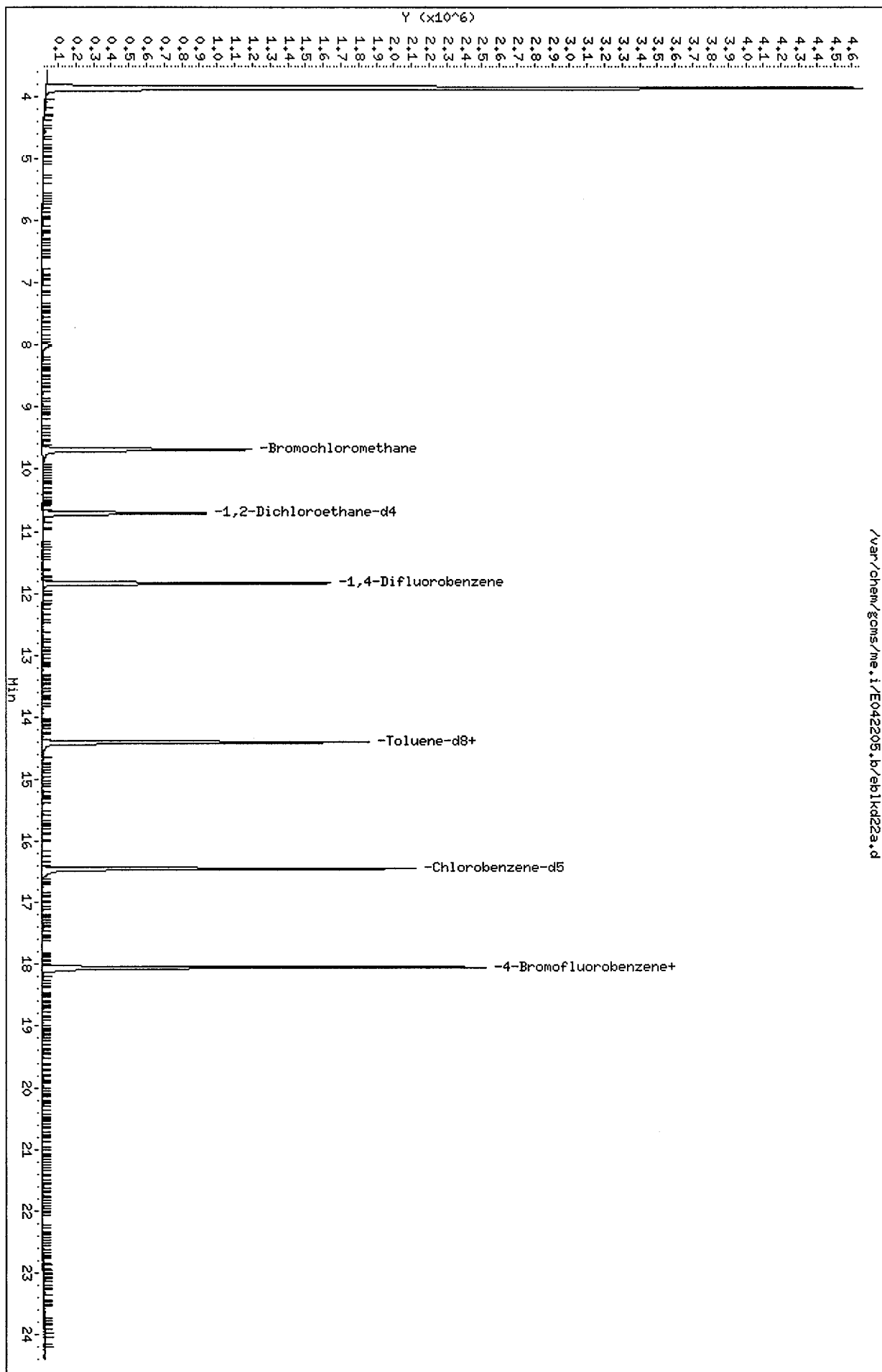
RECOVERY REPORT

Client Name:	Client SDG: E042205
Sample Matrix: GAS	Fraction: OTHER
Lab Smp Id: G83441AA	Client Smp ID: BLK
Level: LOW	Operator: 7126
Data Type: MS DATA	SampleType: BLANK
SpikeList File: all.spk	Quant Type: ISTD
Sublist File: 1-all.sub	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,,,500ML	

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	10.37	103.66	70-130
\$ 5 Toluene-d8	10.00	10.15	101.54	70-130
\$ 6 4-Bromofluorobenze	10.00	8.739	87.39	70-130

Data File: /var/chem/gcms/me.i/E042205.b/eb1kd22a.d
Date : 22-APR-2005 13:14
Client ID: BLK
Sample Info: EBLKD22,,3,,BLK
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/me.i/E042205,b/eb1kd22a.d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

Volume Injected (uL): 500.0

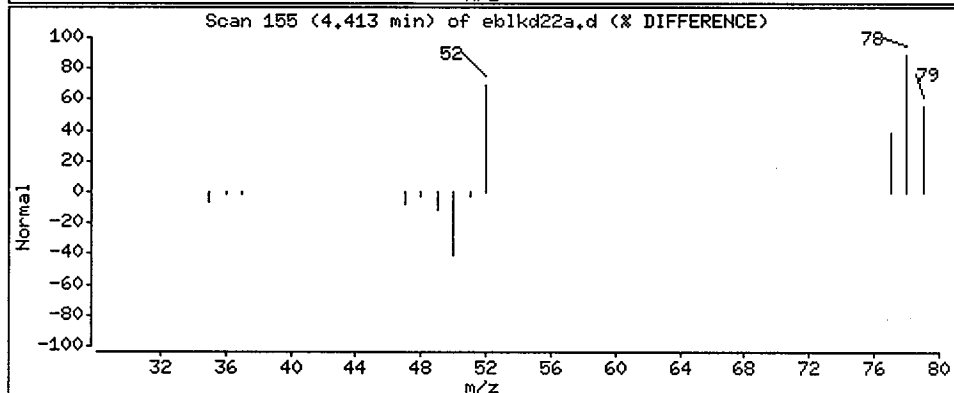
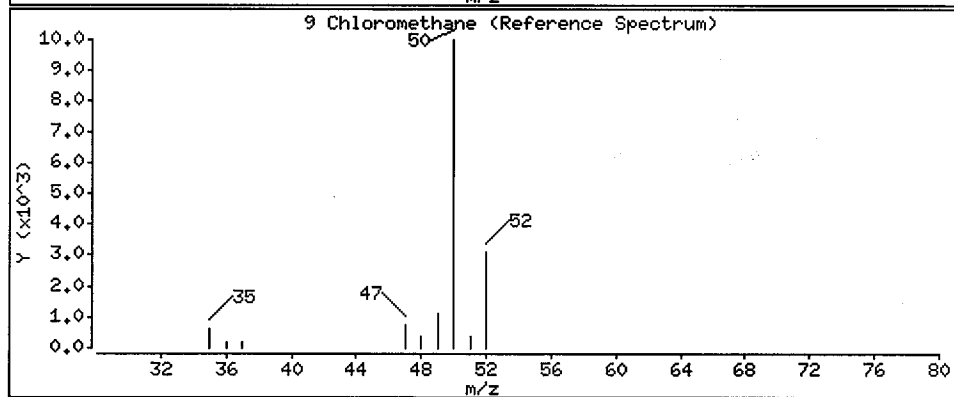
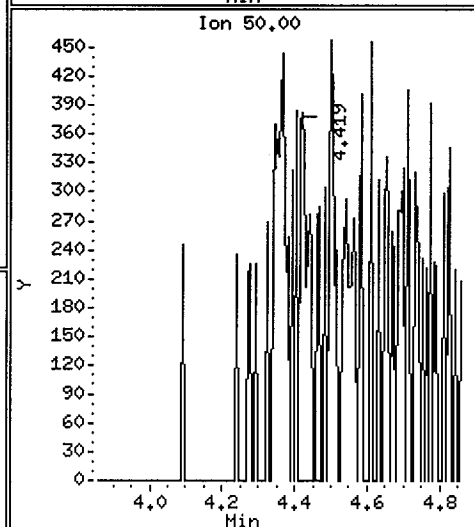
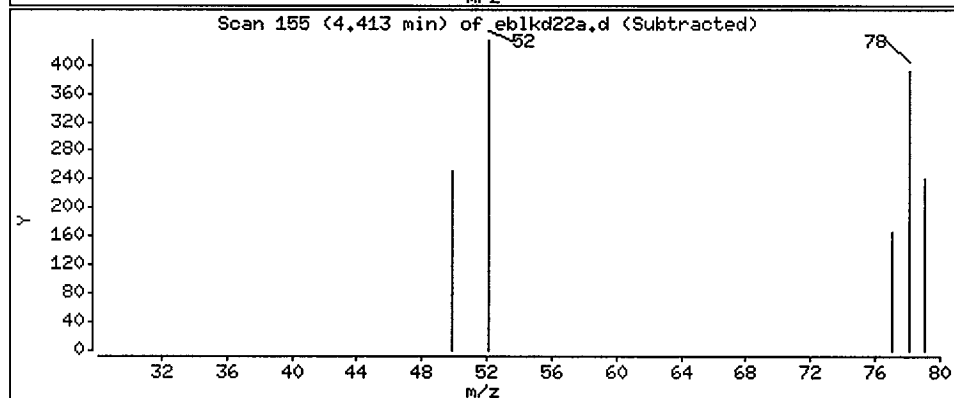
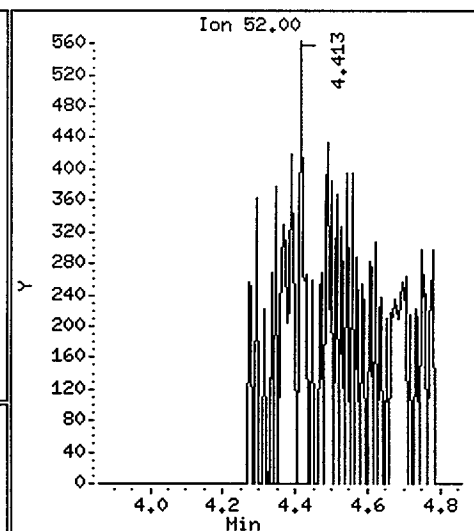
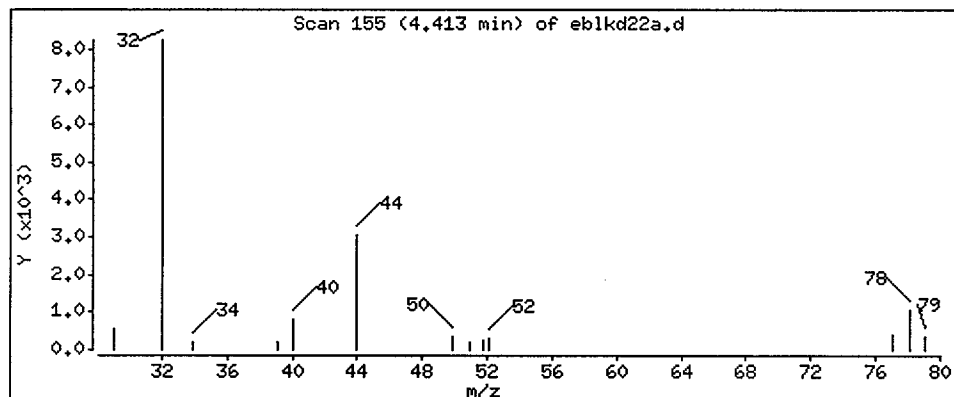
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

9 Chloromethane

Concentration: 0.07008 ppb(v/v)



Data File: /var/chem/gcons/me.i/E042205,b/eb1kd22a,d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

Volume Injected (uL): 500.0

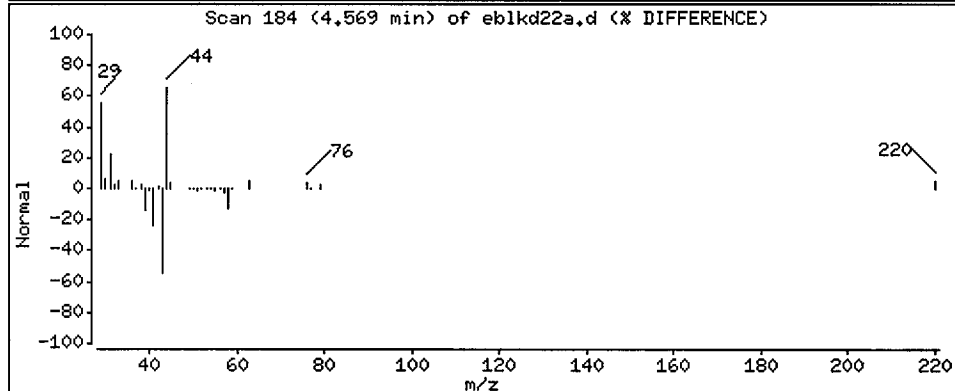
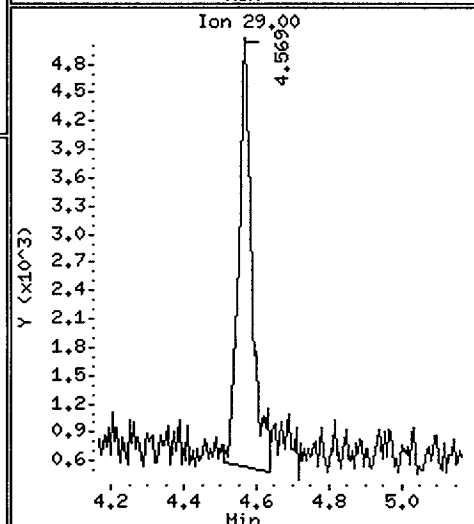
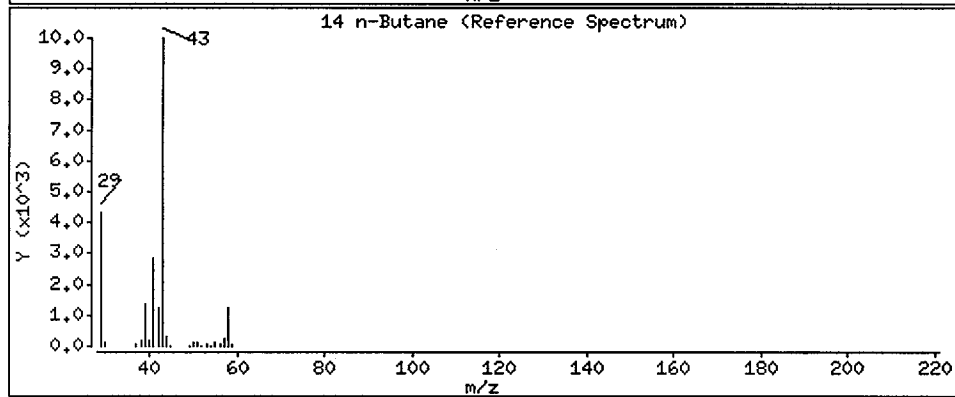
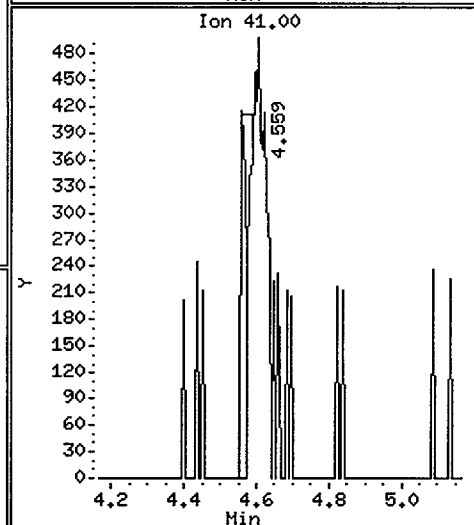
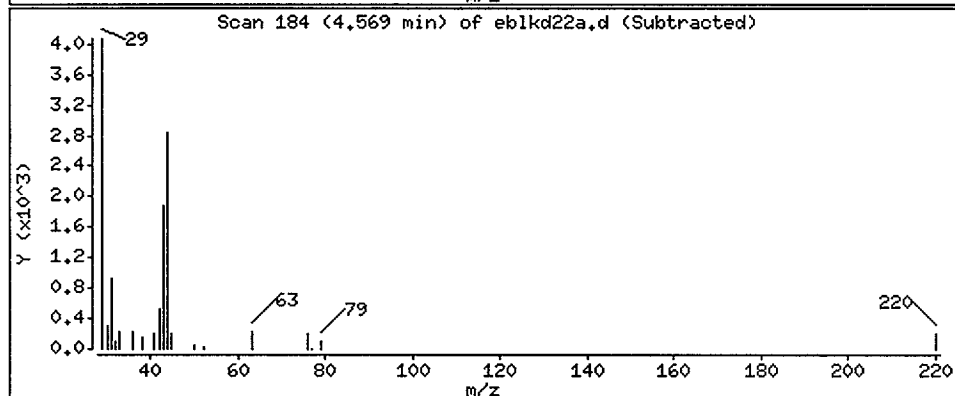
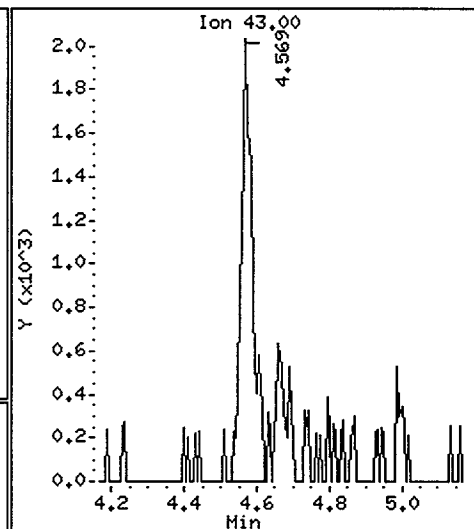
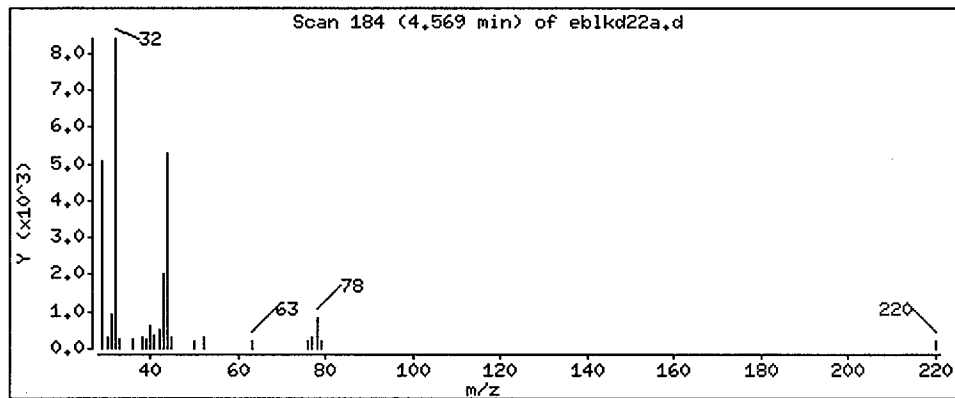
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

14 n-Butane

Concentration: 0.04136 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205,b/ebld22a,d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

Volume Injected (uL): 500.0

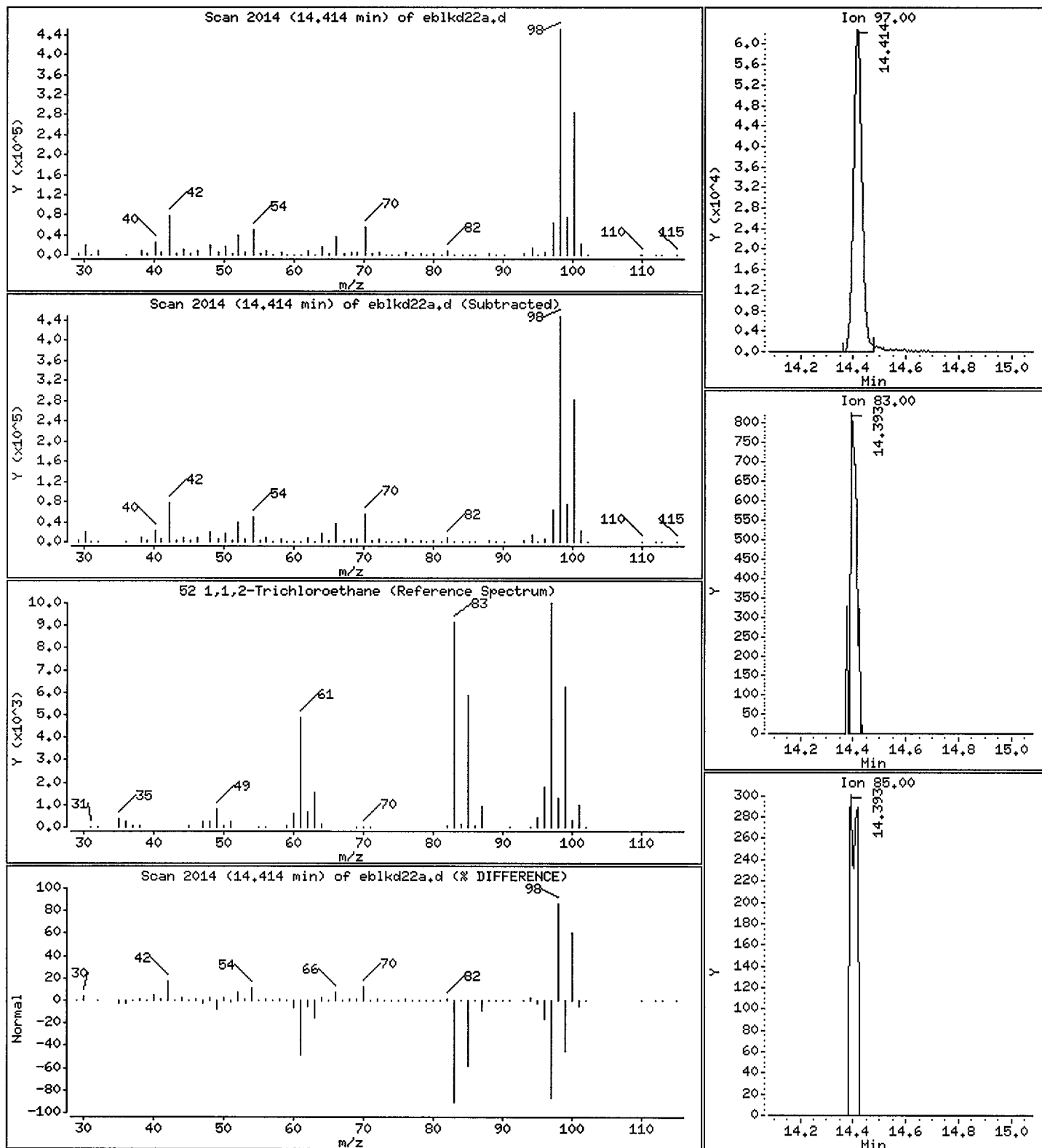
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

52 1,1,2-Trichloroethane

Concentration: 1.888 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205,b/eb1kd22a,d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

Volume Injected (uL): 500.0

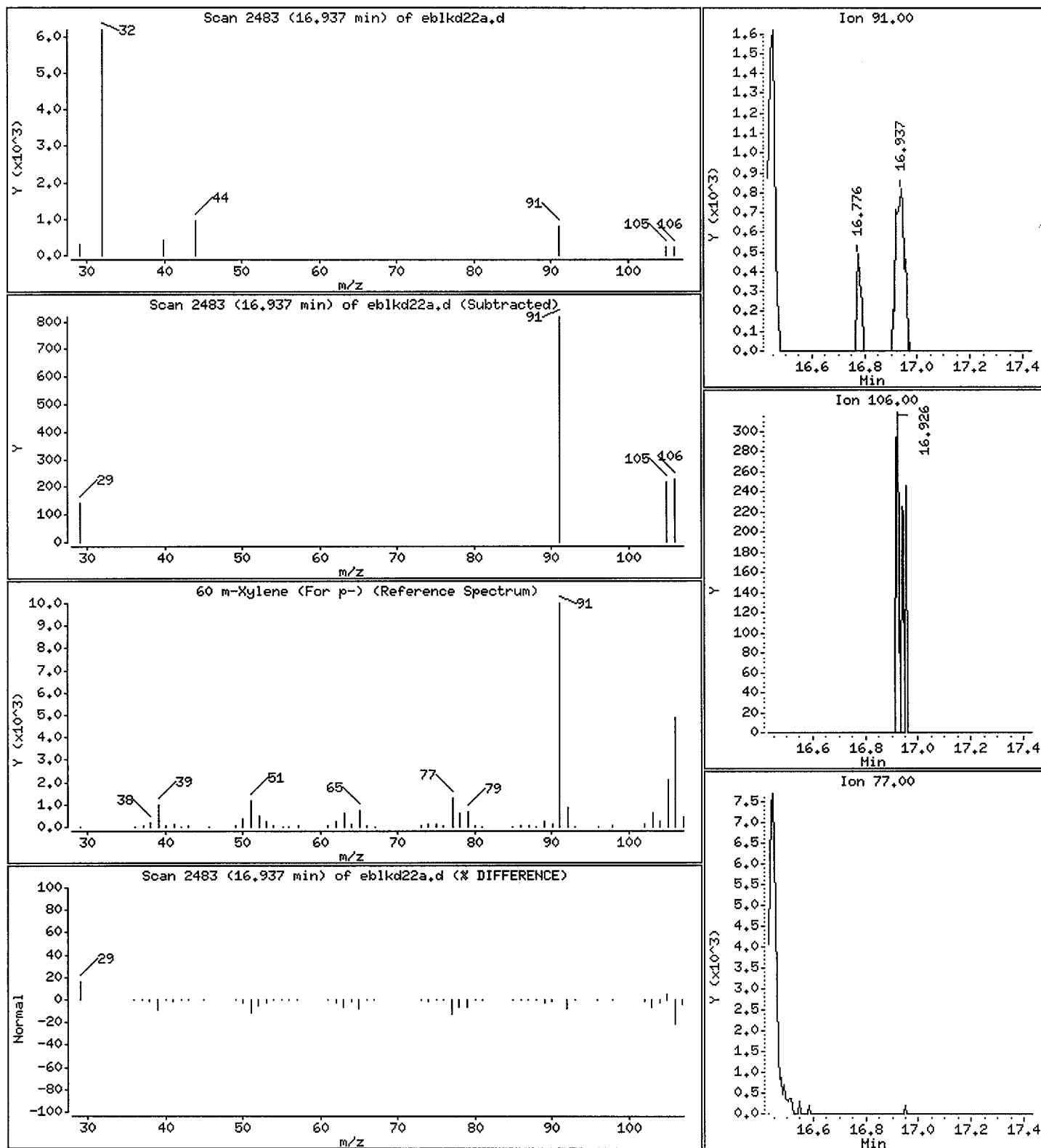
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

60 m-Xylene (For p-)

Concentration: 0.1577 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205,b/ebld22a,d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

Volume Injected (uL): 500.0

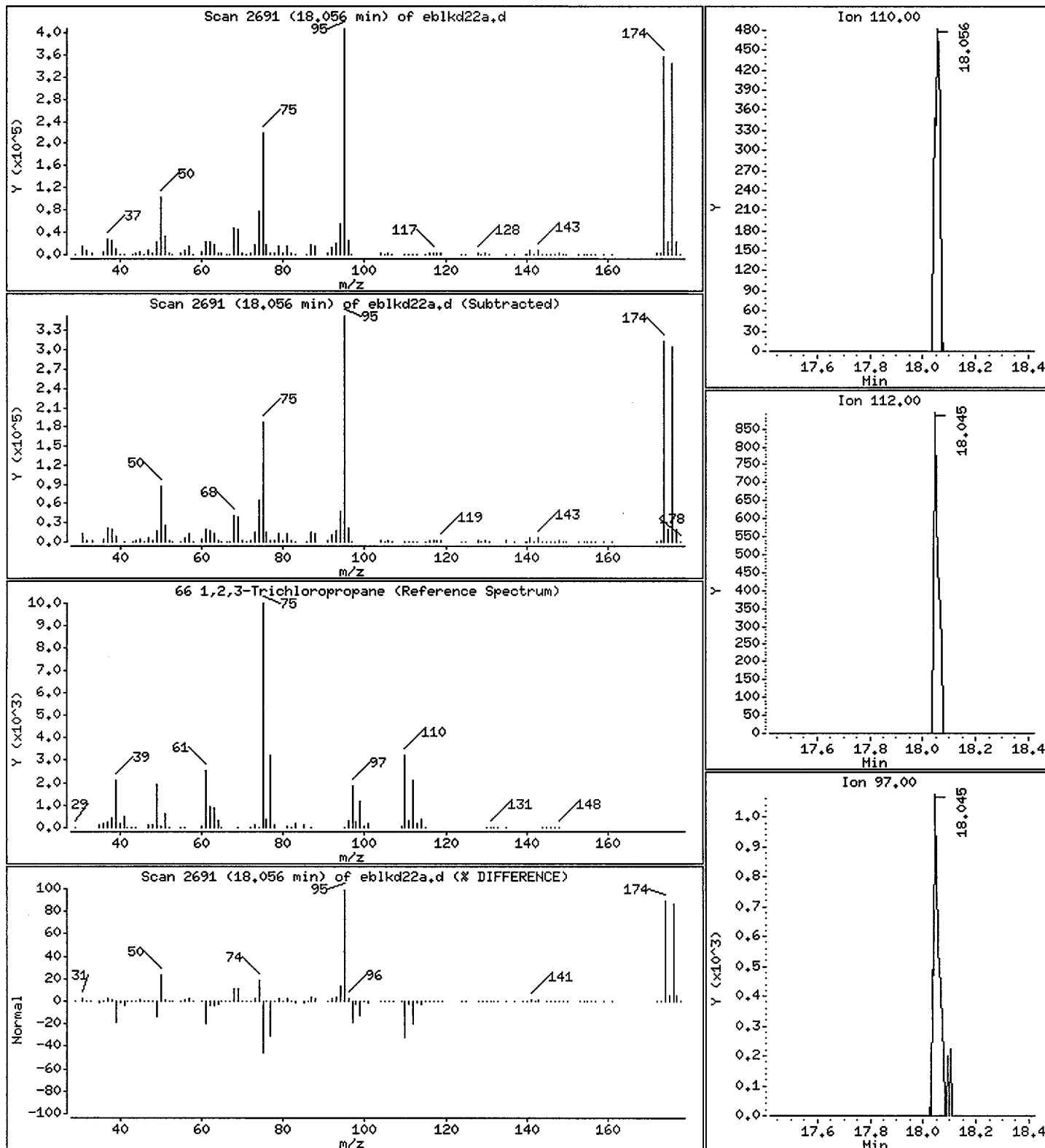
Operator: 7126

Column phase: DB-5

Column diameter: 0.32

66 1,2,3-Trichloropropane

Concentration: 0.04096 ppb(v/v)



Data File: /var/chem/gcms/me.i/E042205.b/ebld22a.d
 Report Date: 24-Apr-2005 14:41

STL Knoxville

Modified Method TO-14/TO-15
 Data file : /var/chem/gcms/me.i/E042205.b/ebld22a.d
 Lab Smp Id: G83441AA Client Smp ID: BLK
 Inj Date : 22-APR-2005 13:14
 Operator : 7126 Inst ID: me.i
 Smp Info : EBLKD22,,3,,,BLK
 Misc Info : E042205,LA,,,500ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 14:40 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 16 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
=====	=====	=====	=====
* 1 Bromochloromethane	9.691	1180252	10.000

CONCENTRATIONS				QUANT			
RT	HEIGHT	ON-COL(ppb(v/v))	FINAL(ppb(v/v))	QUAL	LIBRARY	LIB ENTRY	CPND #
----	-----	-----	-----	-----	-----	-----	-----
Carbon dioxide				CAS #: 124-38-9			
3.865	4633262	39.2565486	39.26	5	NIST02.1	77	1

Handwritten signature
 4/24/05

Data File: /var/chem/gcms/me.i/E042205,b/eb1kd22a.d

Date : 22-APR-2005 13:14

Client ID: BLK

Instrument: me.i

Sample Info: EBLKD22,,3,,BLK

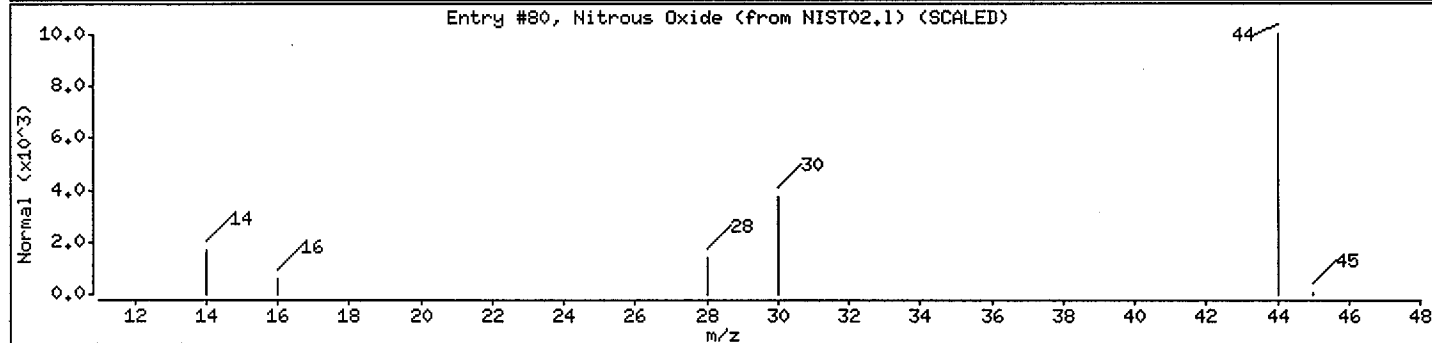
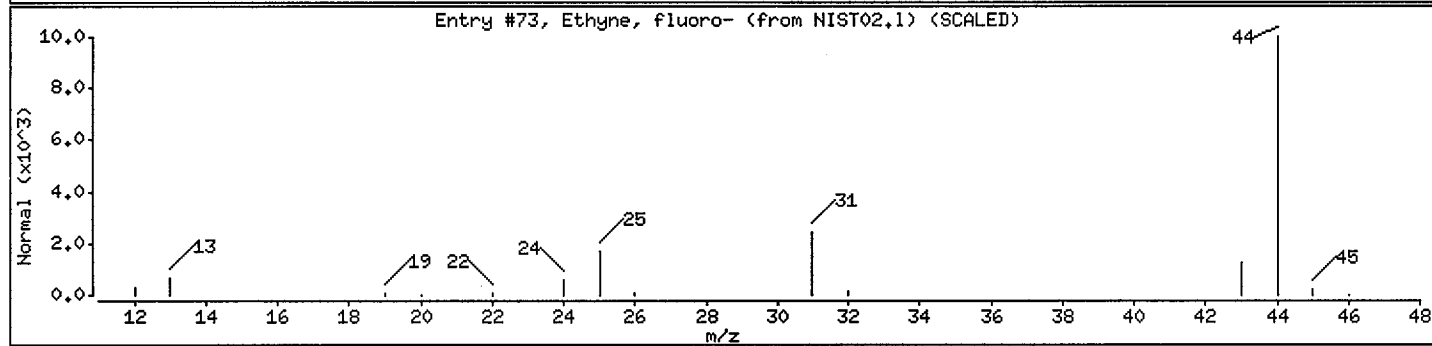
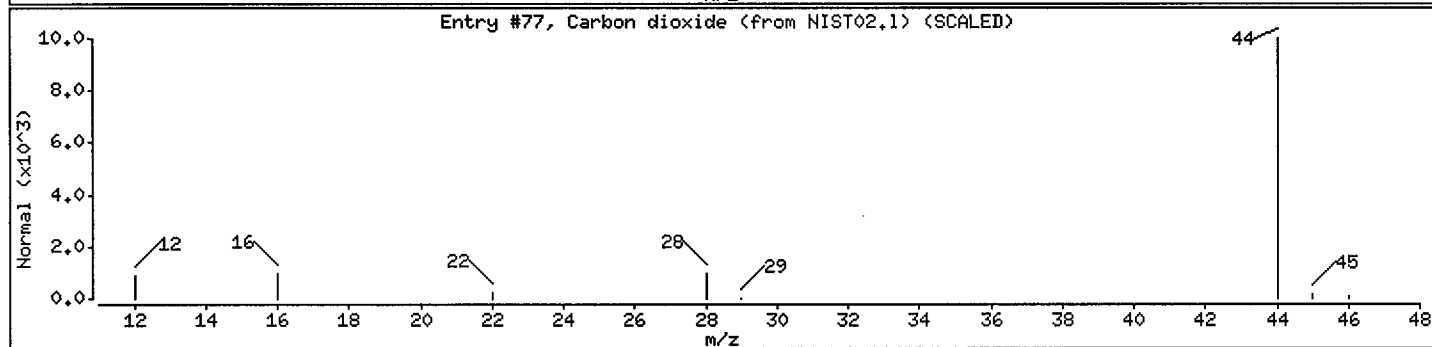
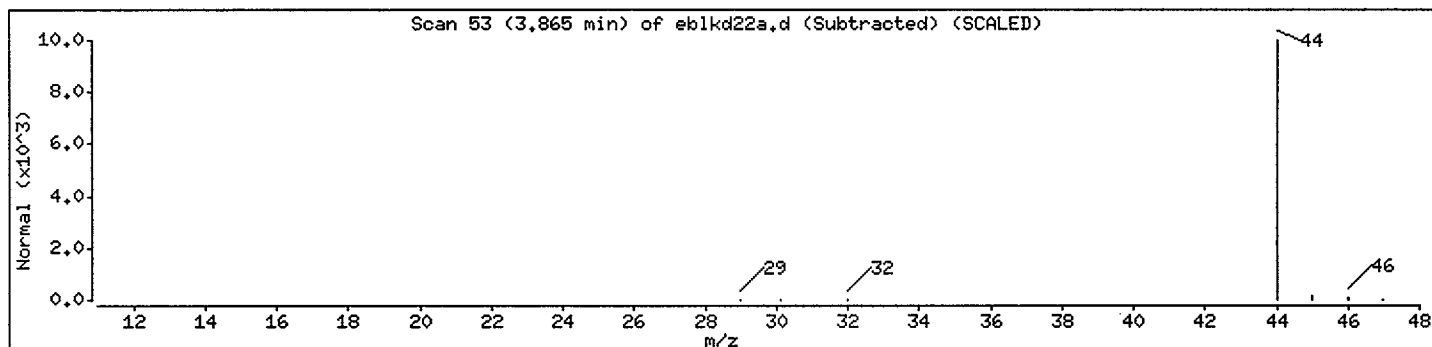
Volume Injected (uL): 500.0

Operator: 7126

Column phase: DB-5

Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST02.1	77	5	CO2	44
Ethyne, fluoro-	2713-09-9	NIST02.1	73	3	C2HF	44
Nitrous Oxide	10024-97-2	NIST02.1	80	2	N2O	44



URS Corporation
Client Sample ID: CHECK SAMPLE
GC/MS Volatiles

Lot-Sample # H5D240000 - 026C **Work Order #** G83441AC **Matrix.....:** AIR

Prep Date.....: 4/22/05 **Date Received...:** 4/4/05
Prep Batch #.....: 5114026 **Analysis Date...:** 4/22/05
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1-Dichloroethene	10.0	11.6	40	46	116	70 - 130
Benzene	10.0	10.4	32	33	104	70 - 130
Trichloroethene	10.0	10.7	54	57	107	70 - 130
Toluene	10.0	10.5	38	39	105	70 - 130
Chlorobenzene	10.0	9.81	46	45	98	70 - 130

URS Corporation
 Client Sample ID: CHECK SAMPLE
 GC/MS Volatiles

Lot-Sample #	H5D240000 - 026C	Work Order #	G83441AC	Matrix.....:	AIR
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)	
1,2-Dichloroethane-d4		67 *		70 - 130	
Toluene-d8		100		70 - 130	
4-Bromofluorobenzene		104		70 - 130	

Qualifiers

* Surrogate recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Lab Smp Id: G83441AC Client Smp ID: LCS
 Inj Date : 22-APR-2005 11:56 /
 Operator : 7126 Inst ID: me.i
 Smp Info : ELCSD22,,3,,,LCS
 Misc Info : E042205,LA,,,100ML
 Comment :
 Method : /var/chem/gcms/me.i/E042205.b/LA.m
 Meth Date : 24-Apr-2005 11:15 tajh Quant Type: ISTD
 Cal Date : 21-APR-2005 18:53 Cal File: eicd215.d
 Als bottle: 15 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

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042605

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ppb(v/v)) (ppb(v/v))
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Bromochloromethane	128	9.691	9.696	(1.000)	331194	10.0000	
* 2 1,4-Difluorobenzene	114	11.837	11.843	(1.000)	1383638	10.0000	
* 3 Chlorobenzene-d5	117	16.448	16.448	(1.000)	1349829	10.0000	
\$ 4 1,2-Dichloroethane-d4	67	10.708	10.708	(0.905)	213881	6.72367	6.724 (R)
\$ 5 Toluene-d8	98	14.403	14.403	(0.876)	1279625	10.0220	10.02
\$ 6 4-Bromofluorobenzene	95	18.051	18.051	(1.097)	1123370	10.4291	10.43
7 Chlorodifluoromethane	51	4.069	4.075	(0.420)	1824815	11.3618	11.36
8 Dichlorodifluoromethane	85	4.145	4.150	(0.428)	2680166	13.0306	13.03 (R)
9 Chloromethane	52	4.360	4.360	(0.450)	192902	10.6583	10.66
10 1,2-Dichlorotetrafluoroethane	135	4.370	4.376	(0.451)	1490089	11.5257	11.52
12 Methanol	31	4.527	4.532	(0.467)	376300	60.1240	60.12 (R)
11 Vinyl Chloride	62	4.559	4.564	(0.470)	617267	11.5084	11.51
13 1,3-Butadiene	54	4.666	4.666	(0.482)	475927	11.3082	11.31
14 n-Butane	43	4.666	4.666	(0.482)	923743	9.40735	9.407
15 Bromomethane	94	5.038	5.043	(0.520)	682024	11.3368	11.34
16 Chloroethane	64	5.204	5.204	(0.537)	299651	11.3211	11.32
143 Vinyl Bromide	106	5.549	5.554	(0.573)	1187583	10.2732	10.27
17 Trichlorofluoromethane	101	5.855	5.861	(0.604)	2027882	9.10683	9.107
18 Acrolein	56	5.866	5.882	(0.605)	195337	31.6063	31.61 (R)
19 Acetonitrile	40	5.947	5.957	(0.614)	209281	25.5737	25.57
20 Acetone	58	6.001	6.011	(0.619)	274791	32.6850	32.68 (R)

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
	=====	==	=====	=====	=====	(ppb (v/v))	(ppb (v/v))	
21 Pentane	57	6.103	6.113	(0.630)	169012	11.1007	11.10	
22 Ethyl Ether	31	6.291	6.296	(0.649)	497834	27.5490	27.55	
23 1,1-Dichloroethene	96	6.630	6.641	(0.684)	681660	11.6071	11.61	
144 tert-butanol	59	6.743	6.748	(0.696)	2038275	21.1366	21.14	
24 Acrylonitrile	53	6.759	6.764	(0.697)	411400	28.7272	28.73 (R)	
25 1,1,2-Trichlorotrifluoroethane	101	6.834	6.840	(0.705)	1428980	9.55054	9.550	
26 Methylene Chloride	84	7.012	7.017	(0.724)	517152	9.16516	9.165	
27 3-Chloropropene	39	7.033	7.044	(0.726)	476494	9.90145	9.901	
28 Carbon Disulfide	76	7.179	7.189	(0.741)	1811477	9.92029	9.920	
133 2,3-Dimethyl butane	43	7.808	7.819	(0.806)	1149848	9.45938	9.459	
29 trans-1,2-Dichloroethene	96	7.878	7.883	(0.813)	643348	11.5268	11.53	
30 Methyl-t-Butyl Ether	73	8.023	8.034	(0.828)	1659937	30.8566	30.86 (R)	
31 1,1-Dichloroethane	63	8.330	8.335	(0.860)	978483	9.08659	9.086	
32 Vinyl Acetate	43	8.448	8.454	(0.872)	1346968	30.0297	30.03 (R)	
33 2-Butanone	72	8.922	8.922	(0.921)	280981	29.3091	29.31 (R)	
34 Hexane	56	8.938	8.948	(0.922)	465914	9.68296	9.683	
35 cis 1,2-Dichloroethene	96	9.352	9.357	(0.965)	553657	9.46898	9.469	
36 Chloroform	83	9.702	9.707	(1.001)	1185516	9.64813	9.648	
37 1,1,1-Trichloroethane	97	10.745	10.751	(1.109)	1061509	8.37263	8.373	
38 1,2-Dichloroethane	62	10.848	10.853	(0.916)	592655	6.13880	6.139 (R)	
40 1-Butanol	31	11.262	11.267	(0.951)	580696	43.8044	43.80 (R)	
39 Benzene	78	11.316	11.321	(0.956)	1777654	10.4290	10.43	
41 Cyclohexane	69	11.316	11.321	(0.956)	334495	12.1176	12.12	
42 Carbon Tetrachloride	117	11.332	11.337	(0.957)	2067946	10.3762	10.38	
145 2,2,4-trimethylpentane	57	12.058	12.063	(1.019)	3157591	9.65862	9.659	
43 Heptane	43	12.408	12.413	(1.048)	1674580	10.0118	10.01	
44 1,2-Dichloropropane	63	12.494	12.504	(1.055)	650240	9.82734	9.827	
45 Trichloroethene	130	12.515	12.521	(1.057)	877358	10.6997	10.70	
46 Dibromomethane	93	12.596	12.601	(1.064)	788906	8.84412	8.844	
47 Bromodichloromethane	83	12.736	12.741	(1.076)	1492289	8.92288	8.923	
48 4-Methyl-2-pentanone	43	13.661	13.661	(1.154)	2373030	33.4985	33.50 (R)	
49 cis-1,3-Dichloropropene	75	13.704	13.709	(1.158)	1168155	9.42491	9.425	
50 trans-1,3-Dichloropropene	75	14.382	14.382	(0.874)	734810	9.22755	9.228	
51 Toluene	91	14.511	14.516	(0.882)	1829140	10.4826	10.48	
52 1,1,2-Trichloroethane	97	14.581	14.581	(0.886)	686842	8.55890	8.559	
53 2-Hexanone	58	14.952	14.952	(0.909)	1019742	30.9970	31.00 (R)	
54 Octane	85	15.178	15.183	(0.923)	622754	10.4506	10.45	
55 Dibromochloromethane	129	15.270	15.270	(0.928)	1454644	9.28648	9.286	
56 1,2-Dibromoethane	107	15.560	15.565	(0.946)	1135215	10.4208	10.42	
57 Tetrachloroethene	129	15.630	15.630	(0.950)	860530	10.7200	10.72	
58 Chlorobenzene	112	16.491	16.496	(1.003)	1511559	9.80655	9.806	
59 Ethylbenzene	91	16.776	16.781	(1.020)	2424640	11.2477	11.25	
60 m-Xylene (For p-)	91	16.926	16.932	(1.029)	1973360	9.74059	9.740	
62 Nonane	57	17.341	17.346	(1.054)	1519286	11.7991	11.80	
61 Bromoform	173	17.378	17.378	(1.057)	1503224	9.32752	9.328	
63 Styrene	104	17.389	17.394	(1.057)	1305840	10.1787	10.18	
64 o-Xylene	91	17.454	17.459	(1.061)	2107117	10.9134	10.91	

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS	==	=====	=====	=====	(ppb (v/v))	(ppb (v/v))
=====	=====					=====	=====
65 1,1,2,2-Tetrachloroethane	83	17.760	17.760	(1.080)	1577981	8.94427	8.944
66 1,2,3-Trichloropropane	110	17.916	17.922	(1.089)	266196	14.6066	14.61(R)
67 Cumene	105	18.024	18.029	(1.096)	2860882	10.0373	10.04
134 a-Pinene	93	18.244	18.244	(1.109)	1630863	9.94113	9.941
68 n-Propylbenzene	120	18.530	18.530	(1.127)	835592	9.72677	9.727
135 Camphene	93	18.556	18.556	(1.128)	1285054	9.56935	9.569
146 2-chlorotoluene	126	18.573	18.573	(1.129)	696349	8.93752	8.938
69 4-Ethyltoluene	105	18.669	18.675	(1.135)	2907143	9.77700	9.777
70 1,3,5-Trimethylbenzene	120	18.739	18.739	(1.139)	1156160	10.9134	10.91
71 Alpha-Methylstyrene	118	18.955	18.954	(1.152)	1225837	9.84303	9.843
136 b-Pinene	93	18.998	18.998	(1.155)	1642218	9.96480	9.965
72 Decane	57	19.008	19.008	(1.156)	2099264	9.56385	9.564
73 1,2,4-Trimethylbenzene	105	19.154	19.159	(1.165)	2493453	11.4453	11.44
141 sec-butylbenzene	105	19.406	19.406	(1.180)	3482761	10.1160	10.12
74 1,3-Dichlorobenzene	146	19.417	19.417	(1.181)	1812785	9.35328	9.353
75 Benzyl Chloride	91	19.487	19.487	(1.185)	1920908	11.5606	11.56
76 1,4-Dichlorobenzene	146	19.498	19.498	(1.185)	1755087	9.45742	9.457
137 p-Cymene	119	19.557	19.557	(1.189)	2754720	9.62917	9.629
138 d-Limonene	68	19.627	19.632	(1.193)	1052238	9.71359	9.714
77 1,2-Dichlorobenzene	146	19.842	19.848	(1.206)	1622208	9.27084	9.271
142 n-butylbenzene	91	19.971	19.971	(1.214)	2647204	9.60407	9.604
78 Undecane	57	20.267	20.273	(1.232)	2392522	10.2797	10.28
139 4-tert-Butyltoluene	133	20.402	20.407	(1.240)	2682243	9.58787	9.588
140 Camphor	95	21.219	21.219	(1.290)	497529	9.80477	9.805
79 Dodecane	57	21.370	21.370	(1.299)	1760732	9.66425	9.664
80 1,2,4-Trichlorobenzene	180	21.585	21.585	(1.312)	864420	11.3562	11.36
81 Napthalene	128	21.736	21.736	(1.321)	1584900	9.52065	9.521
82 Hexachlorobutadiene	225	21.951	21.951	(1.335)	988018	8.55390	8.554

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: me.i	Calibration Date: 22-APR-2005
Lab File ID: elcsd22.d	Calibration Time: 11:19
Lab Smp Id: G83441AC	Client Smp ID: LCS
Analysis Type: OTHER	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 7126	
Method File: /var/chem/gcms/me.i/E042205.b/LA.m	
Misc Info: E042205,LA,,,100ML	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	334573	199071	470075	331194	-1.01
2 1,4-Difluorobenze	1313734	781672	1845796	1383638	5.32
3 Chlorobenzene-d5	1297315	771902	1822728	1349829	4.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Bromochloromethan	9.70	9.37	10.03	9.69	-0.06
2 1,4-Difluorobenze	11.84	11.51	12.17	11.84	-0.05
3 Chlorobenzene-d5	16.45	16.12	16.78	16.45	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

STL Knoxville

RECOVERY REPORT

Client Name: Client SDG: E042205
 Sample Matrix: GAS Fraction: OTHER
 Lab Smp Id: G83441AC Client Smp ID: LCS
 Level: LOW Operator: 7126
 Data Type: MS DATA SampleType: BLANK
 SpikeList File: all.spk Quant Type: ISTD
 Sublist File: all.sub
 Method File: /var/chem/gcms/me.i/E042205.b/LA.m
 Misc Info: E042205,LA,,,100ML

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
7 Chlorodifluorometh	10.00	11.36	113.62	70-130
8 Dichlorodifluorome	10.00	13.03	130.31*	70-130
9 Chloromethane	10.00	10.66	106.58	70-130
10 1,2-Dichlorotetra	10.00	11.52	115.26	70-130
11 Vinyl Chloride	10.00	11.51	115.08	70-130
12 Methanol	40.00	60.12	150.31*	60-140
13 1,3-Butadiene	10.00	11.31	113.08	70-130
14 n-Butane	10.00	9.407	94.07	70-130
15 Bromomethane	10.00	11.34	113.37	70-130
16 Chloroethane	10.00	11.32	113.21	70-130
17 Trichlorofluoromet	10.00	9.107	91.07	70-130
18 Acrolein	20.00	31.61	158.03*	60-140
19 Acetonitrile	20.00	25.57	127.87	60-140
20 Acetone	20.00	32.68	163.43*	60-140
21 Pentane	10.00	11.10	111.01	70-130
22 Ethyl Ether	20.00	27.55	137.75	60-140
23 1,1-Dichloroethene	10.00	11.61	116.07	70-130
24 Acrylonitrile	20.00	28.73	143.64*	60-140
25 1,1,2-Trichlorotri	10.00	9.550	95.51	70-130
26 Methylene Chloride	10.00	9.165	91.65	70-130
27 3-Chloropropene	10.00	9.901	99.01	70-130
28 Carbon Disulfide	10.00	9.920	99.20	70-130
29 trans-1,2-Dichloro	10.00	11.53	115.27	70-130
30 Methyl-t-Butyl Eth	20.00	30.86	154.28*	60-140
31 1,1-Dichloroethane	10.00	9.086	90.87	70-130
32 Vinyl Acetate	20.00	30.03	150.15*	60-140
33 2-Butanone	20.00	29.31	146.55*	60-140
34 Hexane	10.00	9.683	96.83	70-130
35 cis 1,2-Dichloroet	10.00	9.469	94.69	70-130
36 Chloroform	10.00	9.648	96.48	70-130
37 1,1,1-Trichloroeth	10.00	8.373	83.73	70-130
38 1,2-Dichloroethane	10.00	6.139	61.39*	70-130
39 Benzene	10.00	10.43	104.29	70-130

Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
40 1-Butanol	20.00	43.80	219.02*	60-140
41 Cyclohexane	10.00	12.12	121.18	70-130
42 Carbon Tetrachlori	10.00	10.38	103.76	70-130
43 Heptane	10.00	10.01	100.12	70-130
44 1,2-Dichloropropan	10.00	9.827	98.27	70-130
45 Trichloroethene	10.00	10.70	107.00	70-130
46 Dibromomethane	10.00	8.844	88.44	70-130
47 Bromodichlorometha	10.00	8.923	89.23	70-130
48 4-Methyl-2-pentano	20.00	33.50	167.49*	60-140
49 cis-1,3-Dichloropr	10.00	9.425	94.25	70-130
50 trans-1,3-Dichloro	10.00	9.228	92.28	70-130
51 Toluene	10.00	10.48	104.83	70-130
52 1,1,2-Trichloroeth	10.00	8.559	85.59	70-130
53 2-Hexanone	20.00	31.00	154.98*	60-140
54 Octane	10.00	10.45	104.51	70-130
55 Dibromochlorometha	10.00	9.286	92.86	70-130
56 1,2-Dibromoethane	10.00	10.42	104.21	70-130
57 Tetrachloroethene	10.00	10.72	107.20	70-130
58 Chlorobenzene	10.00	9.806	98.07	70-130
59 Ethylbenzene	10.00	11.25	112.48	70-130
60 m-Xylene (For p-)	10.00	9.740	97.41	70-130
61 Bromoform	10.00	9.328	93.28	70-130
62 Nonane	10.00	11.80	117.99	70-130
63 Styrene	10.00	10.18	101.79	70-130
64 o-Xylene	10.00	10.91	109.13	70-130
65 1,1,2,2-Tetrachlor	10.00	8.944	89.44	70-130
66 1,2,3-Trichloropro	10.00	14.61	146.07*	60-140
67 Cumene	10.00	10.04	100.37	70-130
68 n-Propylbenzene	10.00	9.727	97.27	70-130
69 4-Ethyltoluene	10.00	9.777	97.77	70-130
70 1,3,5-Trimethylben	10.00	10.91	109.13	70-130
71 Alpha-Methylstyren	10.00	9.843	98.43	70-130
72 Decane	10.00	9.564	95.64	70-130
73 1,2,4-Trimethylben	10.00	11.44	114.45	70-130
74 1,3-Dichlorobenzen	10.00	9.353	93.53	70-130
75 Benzyl Chloride	10.00	11.56	115.61	70-130
76 1,4-Dichlorobenzen	10.00	9.457	94.57	70-130
77 1,2-Dichlorobenzen	10.00	9.271	92.71	70-130
78 Undecane	10.00	10.28	102.80	70-130
79 Dodecane	10.00	9.664	96.64	70-130
80 1,2,4-Trichloroben	10.00	11.36	113.56	70-130
81 Napthalene	10.00	9.521	95.21	70-130
82 Hexachlorobutadien	10.00	8.554	85.54	70-130
133 2,3-Dimethyl butan	10.00	9.459	94.59	70-130
134 a-Pinene	10.00	9.941	99.41	70-130
135 Camphene	10.00	9.569	95.69	70-130
136 b-Pinene	10.00	9.965	99.65	70-130

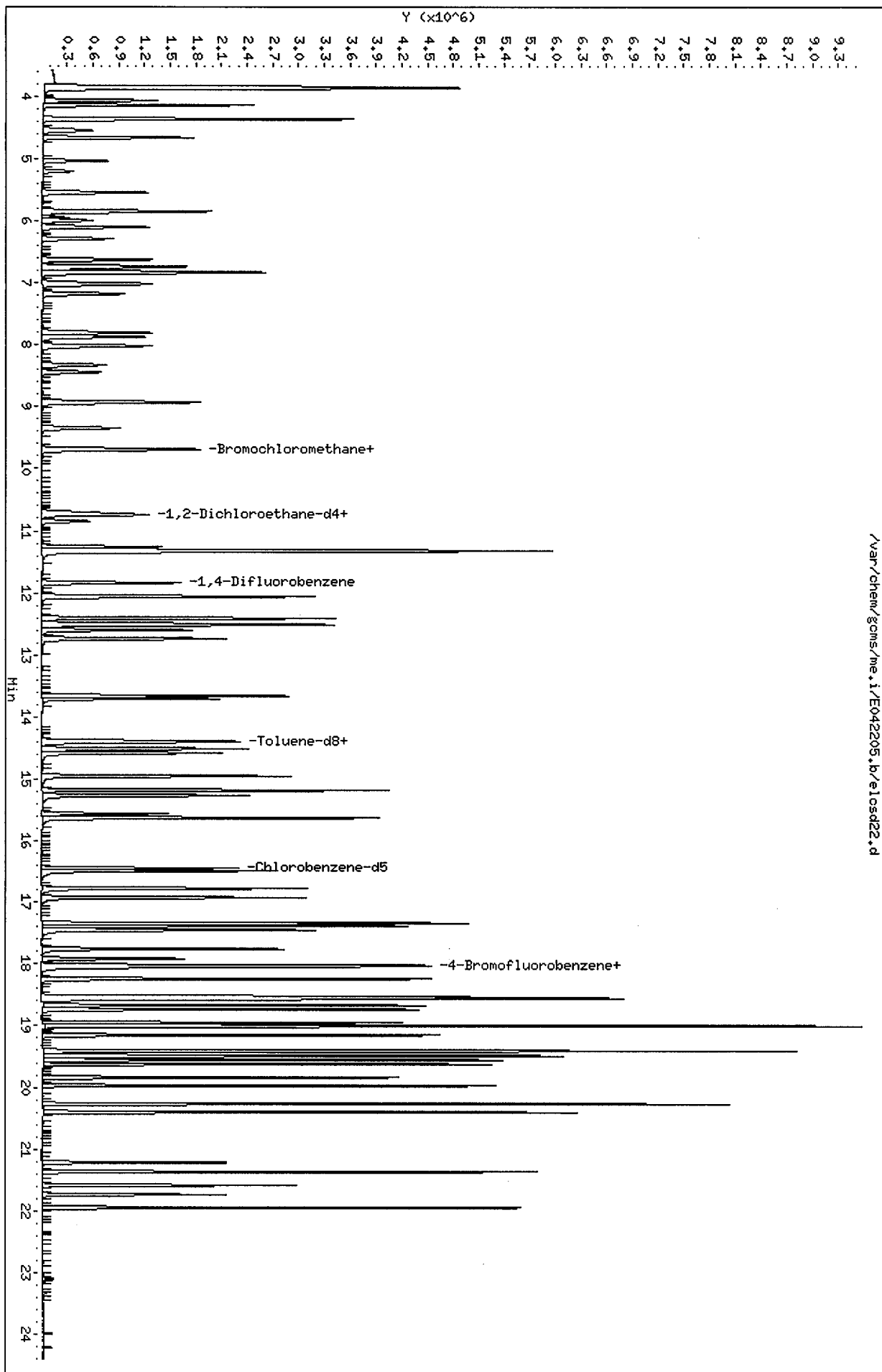
Data File: /var/chem/gcms/me.i/E042205.b/elcsd22.d
 Report Date: 24-Apr-2005 12:43

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
137 p-Cymene	10.00	9.629	96.29	70-130
138 d-Limonene	10.00	9.714	97.14	70-130
139 4-tert-Butyltoluen	10.00	9.588	95.88	70-130
140 Camphor	10.00	9.805	98.05	70-130
141 sec-butylbenzene	10.00	10.12	101.16	70-130
142 n-butylbenzene	10.00	9.604	96.04	70-130
143 Vinyl Bromide	10.00	10.27	102.73	70-130
144 tert-butanol	20.00	21.14	105.68	70-130
145 2,2,4-trimethylpen	10.00	9.659	96.59	70-130
146 2-chlorotoluene	10.00	8.938	89.38	70-130

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
\$ 4 1,2-Dichloroethane	10.00	6.724	67.24*	70-130
\$ 5 Toluene-d8	10.00	10.02	100.22	70-130
\$ 6 4-Bromofluorobenze	10.00	10.43	104.29	70-130

Data File: /var/chem/gcms/me.i/E042205.b/e1csd22.d
Date : 22-APR-2005 11:56
Client ID: LCS
Sample Info: ELCSD22,3,,LCS
Volume Injected (uL): 500.0
Column phase: DB-5

Instrument: me.i
Operator: 7126
Column diameter: 0.32



Miscellaneous Data

Instrument:	<u>MT</u>		<u>ME</u>					
Scanned File:	<u>T041505I</u>		<u>E042105I</u>					
	<u>T042005</u>		<u>E042205</u>					
Review Items								
A. Tune / Continuing Calibration			N/A	Yes	No	Why is data reportable?	2nd	
1. Were all samples injected within 24 hr of BFB?				/			/	
2. Has a Continuing Calibration Checklist been completed for each analytical batch?				/			/	
3. Was the correct ICAL used for quantitation?				/			/	
B. CLIENT SAMPLE AND QC SAMPLE Results			N/A	Yes	No	Why is data reportable?		
1. Were all special project requirements met?				/			/	
2. Were dilution factors/can prep information verified?				/			/	
3. Have the can number & lab ID been verified between the analysis log & sample prep log?				/			/	
4. Were samples received in cans?				/		0 [Tedlar1] Samples rec'd on (date) in Tedlar bags & ana by TO-14 (TO-15) within 72 hours from sampling. 0 [Tedlar2] Samples rec'd on (date) in Tedlar bags & transferred into Summa canisters within 72 hours*.	/	
5. Sample analyses done within analytical holding time (HT)? If no, list samples: _____				/		0 [ht2] Client requested analysis after HT expired. 0 Other: _____	/	
6. Are surrogates and internal standards within QC limits? (70-130% R for surr.; 60-140%R from CCAL for IS) If no, list samples/reason (e.g., sur1): Sample _____ Reason _____ Sample _____ Reason _____				/		0 [sur1] DUP surr. %R demonstrated same effect. 0 [sur2] Reanalysis demonstrated same effect. 0 [sur5] At client's request, data was flagged as estimated & released without further investigation.* 0 [is1] Per client, reanalysis was not performed * 0 [is2] Reanalysis confirmed a matrix effect. 0 Obvious matrix effect	/	
7. Were positive hits evaluated using qualitative identification criteria and technical judgement?				/			/	
8. For dilutions, is highest concentration hit $\geq 20\%$ cal range and not above calibration range? List samples and reason (e.g., elev1): Sample _____ Reason _____ Sample _____ Reason _____				/		0 [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. 0 [elev3] Elevated RLs for all analytes due to difficult sample matrix. 0 [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	/	
9. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?			/			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tail; 4)RT shift; 5)wrong peak selected; 6)other	<u>NA</u>	
10. Have alternate hits/manual integrations been verified as correct?			/				<u>NA</u>	
11. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)				/			/	
12. Was a narrative prepared and all deviations noted?				/			/	
13. For NJ samoles, analytes $>30\%$ D, $\leq 40\%$ D on CCAL noted in narrative?			/			0 [ccal] The calib. verify. exhibited a %D from the ICAL $>30\%$ but $\leq 40\%$ for the following analytes: _____	<u>NA</u>	
C. Preparation QC								
1. System blank run every 24 hours prior to samples?				/			/	
2. System blank surrogate recoveries within QC limits (70-130% R)?				/		0 [mb1] All sample surrogates OK and there is no analyte $>RL$ in samples associated with blank.*	/	
3. Are all analytes present in the system blank $< RL$? If no, list blank ID: _____				/		0 [mb3] No analyte $> RL$ in associated samples.* 0 [mb4] Sample results $> 20x$ higher than blank.	/	
4. DUP done per 20 samples and are all RPDs within limits? (for target analytes $>5x$ RL, $\leq 25\%$ RPD; no criteria for methanol and n-butanol) If no, list DUP ID: _____				/			/	
D. Other								
1. Are all nonconformances documented appropriately and copy included with deliverable?				/		<u>08-05260 SURR & LCS 5114026</u>	/	
2. Were the standards scanned properly?				/			/	
Analyst:	<u>ICS 511152 PTLR. du ND</u>		Date:	<u>4/25/05</u>	2nd Level Reviewer:	<u>IL</u>	Date:	<u>042605</u>
Comments:								

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 4/21/05
Time: 9:31:53

LEV	LEV	LEV	LEV
1	2	1	2
-	Blank	-	Weights/Volumes
-	Check	-	Spike & Surrogate Worksheet
-	MS/MSD	-	Vial contains correct volume
-		-	Labels, greenbars, worksheets
-		-	computer batch: correct & all match
-		-	Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS (TO-15)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

ppb(v/v)

* QC BATCH: 5111152 *
* *****

PREP DATE: 4/20/05
COMP DATE: 4/21/05

EXTR EXPR	ANL DUE	LOT#,MSR#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/22/05	HSD040122-001		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD040122-002															
0/00/00	4/22/05	G7K7E-1-AC		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD040122-003															
0/00/00	4/22/05	G7K7J-1-AC		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD080253-001															
0/00/00	4/22/05	G7INC-1-AA		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD120102-001															
0/00/00	4/22/05	G757F-1-AA		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD120102-002															
0/00/00	4/22/05	G757G-1-AA		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD120102-003															
0/00/00	4/22/05	G757H-1-AA		88	U6	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS: HSD120102-003															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 4/21/05
Time: 9:31:53*****
*
* QC BATCH: 5111152 *
*
*****PREP DATE: 4/20/05
COMP DATE: 4/21/05

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/22/05	H5D120102-004	D	88	U6	AIR	NA	NA	NA	.0	.0	
COMMENTS: H5D120102-004												
0/00/00	0/00/00	H5D210000-152		88	U6	AIR	NA	NA	NA	.0	.0	
COMMENTS: H5D210000-152												
0/00/00	0/00/00	G8TNA-1-AAB		88	U6	AIR	NA	NA	NA	.0	.0	
COMMENTS: H5D210000-152												
0/00/00	0/00/00	G8TNA-1-ACC		88	U6	AIR	100mL	NA	NA	.0	.0	
COMMENTS: 100.00mL												

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 10

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 4/24/05
Time: 10:24:55

LEV	LEV	LEV	LEV
1	2	1	2
-	Blank	-	Weights/Volumes
-	Check	-	Spike & Surrogate Worksheet
-	MS/MSD	-	Vial contains correct volume
-		-	Labels, greenpans, worksheets
-		-	computer batch: correct & all match
-		-	Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS (TO-15)
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

* QC BATCH: 5114026 *
* *****

PREP DATE: 4/22/05
COMP DATE: 4/23/05

EXTR EXPR	ANL DUE	LOT#,MSRDN#/ WORK ORDER	TEST FLGS	EXT	MTM	MATRIX	INIT/FIN WT/VOL	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	ppb (v/v)	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/22/05	HSD080145-001	G70RM-1-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD080145-001															
0/00/00	4/22/05	HSD080145-002	G70RR-1-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD080145-002															
0/00/00	4/22/05	HSD120102-001	G757F-2-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD120102-001															
0/00/00	4/22/05	HSD120102-005	G757L-1-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD120102-005															
0/00/00	4/28/05	HSD140174-001	G8CXC-1-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD140174-001															
0/00/00	4/28/05	HSD140174-002	G8CXD-1-AA	88	U6	AIR	ml	NA	NA	NA	.0			.0	
COMMENTS: HSD140174-002															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 4/24/05
Time: 10:24:55*****
* QC BATCH: 5114026 *
*****PREP DATE: 4/22/05
COMP DATE: 4/23/05

EXTR EXPR	ANL DUE	LOT#,MSRPN#/ WORK ORDER	TEST FLGS	EXT	MTN	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJT	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/28/05	HSD140174-003		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/28/05	HSD140174-004		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/28/05	HSD140174-005		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/28/05	HSD140174-006		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/29/05	HSD150210-001		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/29/05	HSD150210-002		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	HSD240000-026		88	U6	AIR	ml	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	HSD240000-026		88	U6	AIR	100ml 100.00ml	NA	NA	NA	.0	.0	
COMMENTS:													

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 15

Date: 4/12/05 ✓

[illegible]

rev.04

H5D120102✓

Initial

STL Knoxville
TO-14/TO-15 Canister Dilution Log

Initial Dilution						Subsequent Dilution						Subsequent Dilution							
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Lot #	Work Order #	Can #	Initial Press. Pf (psi)	Final Press. Pf (psig)	Analyst/Date	U/S	Pbarr (in)	To Can #	Vol. (mL)	Final Press. Pf (psig)	Analyst/Date	U/S	Pbarr (in)	To Can #	Vol. (mL)	Final Press. Pf (psig)
DOF 4-1-05	NA	3006	0070122	G7V/RN	12144	-28.2	4.3												
				KT	1144	0	4.4												
				KV	1396	-2.1	3.6												
				KD	1469	-0.3	4.3												
DOF 4-2-05	NA	2981	D10109	G74V4	1115	-8.6	3.6												
				V5	1514	-9.7	3.4												
				V6	11205	-8.6	3.7												
				V7	12636	-10.1	2.9												
				V8	1498	-9.3	4.9												
				V9	3390	-10.1	2.8												
				WA	04401	-12.6	3.6												
				WC	12266	-8.8	2.9												
				WD	12209	-10.8	3.3												
				WF	12490	-9.7	2.8												
			WG	12440	-28.7	4.4													
	NA	2981	D10102	G757F	12646	-0.4	5.6												
				76	12489	-13.8	3.8												
				74	1589	-14.6	2.8												
				7K	1534	-12.8	3.3												
				7L	11339	-12.8	3.6												

Knoxville, TN (37921)
[Save this Location](#)

On The Spot Weather

Choose Location 



Cloudy

65°F
Feels Like
65°F

UV Index: 0 Low
Wind: From WSW at 2 mph
Humidity: 59%
Pressure: 29.81 in. ↑
Dew Point: 50°F
Visibility: 10.0 miles

Updated Apr 12 08:25 a.m. ET

Sample Receipt Documentation

5815 Middlebrook Pike • Knoxville, TN 37921-5947
Phone: (865) 291-3000 • Fax: (865) 584-4315
Receiving: (865) 291-3031

Project Name/No. ¹ BRIDGE ST.
Sample Team Members ² Chris Miller
Profit Center No. ³ _____
Project Manager ⁴ Scott Hunsberger
Purchase Order No. ⁵ _____

14	

5	Container 17	Sample 18	Pre- 19	Be

Samples Shipment Date ⁷ _____
 Lab Destination ⁸ StL Knoxville
 Lab Contact ⁹ Scott A. Harris
 Project Contact / Phone ¹² (404) 578-8538-3946
 Carrier / Waybill No. ¹³ _____

Samples Shipment Date ⁷ _____
 Lab Destination ⁸ StL Knoxville
 Lab Contact ⁹ Scott A. Harris
 Project Contact / Phone ¹² (404) 578-8538-3946
 Carrier / Waybill No. ¹³ _____

Reference Document No.
Page 1 of 1

Bill to: ⁵ Scott Hulseapple
 At Cascade Park
 Suite
 Coulton Park, N.Y. 14050
 Report to: ¹⁰
 Scott Hulseapple
 CSM

White: To accompany samples

Yellow: Field copy

~~418~~

Sample ¹⁴ Number	Sample ¹⁵ Type	Date/Time ¹⁶ Collected	Container ¹⁷ Type	Sample ¹⁸ Volume	Pre- ¹⁹ servative	Requested Testing ²⁰ Program	Condition on Receipt ²¹ Lab use only
SV-05-02	Air	4/5/05 / 1339	6L Summa	6L	—	TO-15 PMMTHANE & N-ACETONE Pres. BIOLOGICAL AGENTS, ENTO, FUNGUS 3.0. METALS, 1.2.5. TEMPERATURE AND HUMIDITY 3.2.4. TEMPERATURE AND HUMIDITY 2.5.2. MICROBIOLOGICAL 2.8.2. MICROBIOLOGICAL	Custody seals intact Y (N) NA Temperature received at <u>AMBIENT</u> Received by <u>MSD</u> Date <u>4/8/05</u> Number of packages <u>2 BOXES</u> Tracking # <u>851327497012</u> <u>7CANS</u> <u>3BOWS</u>
SV-05-04	Air	4/6/05 / 1041	6L Summa	6L	—		
SV-05-01	Air	4/6/05 / 1142	6L Summa	6L	—		
SV-05-03	Air	4/6/05 / 1249	6L Summa	6L	—		
20050406-T8-1	Air	—	6L Summa	6L	—		

Special Instructions: 23

Possible Hazard Identification: 24

Non-Hazardous	☒	Flammable	☐	Skin Irritant	☐

Turnaround Time Required: 26

Normal ☒ Bush ☐

1 Befragungsbericht 28

(Signature / Affiliation)

_____ / Affiliations

1. Relinquished by

(Signature / Affiliation)

V.O. ... - Lewis & Clark LIST OF DISCOVERIES

Comments: 29

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: VRS Project: BRIDGE ST. Lot Number: 17SD120102

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	☒			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (North Carolina, 1668, 1613B: 0-4°C; VOST: 10°C) (Cooler temp should be used only if no temp blank.)	☒			☒ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?	☒			☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	☒			☒ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	☒			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	☒			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?	☒			☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	☒			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?	☒			☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	☒			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?	☒			☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?	☒			If yes, was SOG notified? _____	
13. Are the shipping containers intact?	☒			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	☒			☐ 14a Not relinquished by client	
15. Are tests/parameters listed for each sample?	☒			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	☒			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	☒			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	☒			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	☒			☐ 15a Incomplete information	

Quote #: _____ PM Instructions: _____

APPENDIX B
SUMMA CANISTER SAMPLE FIELD DATA SHEETS

Summa Canister Sampling Field Data Sheet

Site: NYSEG - BRIDGEST PLATTSBURGH FORMER MGP S.H.

Samplers: Chris McMahon

Date: April 5-6, 2005

Sample #	SV-05-03	SV-15-02	SV-05-04	SV-05-01	SV-05-03
Location	BRIDGE ST.	BRIDGE ST.	BRIDGE ST.	BRIDGE ST.	
Summa Canister ID (Lab ID, if provided)	12838	12646	12489	1539	1537
Additional Tubing Added	YES - How much 4/5/5	YES - How much 4/5/5	YES - How much 4/6/5	YES - How much 4/6/5	YES - How much 4/6/5
Purge Time (Start)	1223	1325	1037	1142	1245
Purge Time (Stop)	1224	1328	1040	1145	1248
Total Purge Time (min)	3 MIN	3 MIN	3 MIN	3 MIN	3 MIN
Pressure Gauge - before sampling		-30	-30	-27	-30
Sample Time (Start)	1230	1328	1041	1042	1249
Sample Time (Stop)	1317	1403	1041	1242	1349
Total Sample Time (min)	47	40	60	60	60
Pressure Gauge - after sampling	0	-1	-15	-14	-17
Canister Pressure Went To Ambient Pressure?	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
General Comments:	HE = 2.17% PID = 42 ppb	HE = 2.03% PID = 0 ppb	HE = 0.027% PID = 153 HE = 0.059% PID = 53	HE = 0.049% PID = 53 HE = 0.007% PID = 21	