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Alpha Analytical

Laboratory Code: 11148

SDG Number: L1604136

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Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1604136
Report Date: 03/02/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1604136-01	SSV08_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 17:00	02/16/16
L1604136-02	AS01_021416	AIR	450 UNION STREET, BROOKLYN, NY	02/14/16 17:00	02/16/16
L1604136-03	AA01_021416	AIR	450 UNION STREET, BROOKLYN, NY	02/14/16 10:22	02/16/16
L1604136-04	SV06_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 10:33	02/16/16
L1604136-05	SSV07_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 11:24	02/16/16
L1604136-06	DUP01_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 00:00	02/16/16
L1604136-07	SV04_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 11:58	02/16/16
L1604136-08	SSV05_021416	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY	02/14/16 12:35	02/16/16
L1604136-09	UNUSED CAN #422	SOIL_VAPOR	450 UNION STREET, BROOKLYN, NY		02/16/16

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1604136
Report Date: 03/02/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1604136
Report Date: 03/02/16

Case Narrative (continued)

Report Submission

This report replaces the report issued on February 22, 2016. It has been revised to correct the project number.

Volatile Organics in Air

Canisters were released from the laboratory on February 13, 2016. The canister certification results are provided as an addendum.

The sample designated SV06_021416 (L1604136-04) required a dilution greater than 4X; based on direction from the client the seven New York Decision Matrix Compounds have been reported by TO15-SIM for this sample.

Sample L1604136-04: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Sample L1604136-04 results for Acetone should be considered estimated due to co-elution with a non-target peak.

Samples L1604136-04 and -08: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

Samples L1604136-05 and -06: The presence of Acetone could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

Sample L1604136-08: The sample was diluted and re-analyzed to quantify the results within the calibration range. The result should be considered estimated, and are qualified with an E flag, for any compound that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

Project Name: 450 UNION STREET
Project Number: 170301202

Lab Number: L1604136
Report Date: 03/02/16

Case Narrative (continued)

Sample Receipt

The flow controller ID number listed on the chain of custody form for the sample designated AA01_021416 (L1604136-03) is 0573 however it should be 0579.

The flow controller ID number listed on the chain of custody form for the sample designated SV06_021416 (L1604136-04) is 0442 however it should be 0742.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 03/02/16

Title: Technical Director/Representative

List of Organic Method Qualifiers

Table 1

Qualifier (Q)	Description
B	Entered if the analyte is found in the associated blank as well as the sample.
C	Applied to pesticide results when the identification has been confirmed by GC/MS.
D	Included when the all identified compounds in the analysis are at the secondary dilution factor.
E	Identified compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value, may indicate one of the following, depending on the situation: (1) The reported value is estimated and below the MDL. (2) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero. (3) QC associated with this analyte is within warning limits.
N	Included for TIC that indicate presumptive evidence of a compound.
U	Entered if the analyte was analyzed for, but not detected.
P	Used for a pesticide/Aroclor target analyte when the concentration difference between 2 GC columns is greater than 25%; the lower value is flagged with a "P".
EMPC	"Estimated Maximum Possible Concentration" – The amount of analyte cannot be accurately quantified, so a maximum concentration has been estimated for the compound.
"XYZ"	"Wildcard" or Laboratory defined qualifier.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable, please assess qualifier priority in the following order: U, E, J, B, D, C, P, N. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 64)

List of Inorganic Method Qualifiers

Table 2

Qualifier	Column (1)	Description
Concentration qualifiers		
B	C	Entered if the reported value was less than the CRDL, but greater than the IDL.
U	C	Entered if the analyte was analyzed for, but not detected.
J	C	Entered if the reported value is estimated and below the MDL.
*	C	Duplicate precision exceeds RPD limit.
M	C	Replicate precision exceeds RPD limit.
"XYZ"	C	"Wildcard" or Laboratory defined qualifier.
Qualifier specific entries		
E	Q	Entered if the reported value is estimated because of the presence of interferences.
Method qualifiers		
A	M	Flame atomic absorption
AS	M	Semi-automated spectrophotometric
AV	M	Automated cold vapor atomic absorption
C	M	Manual spectrophotometric
F	M	Furnace atomic absorption
MS	M	Mass spectrometry (ICP-MS)
NR	M	Analyte is not required to be analyzed
P	M	Inductively coupled plasma (ICP)
" "	M	No data have been entered

(1) The term "Column" is used to indicate under which column heading in the reporting forms that the qualifier will be found under.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable to column C, please assess qualifier priority in the following order: U, J, B. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 65)

Volatile Organics Instruments

Volatile Organics: Jack

Instrument: Agilent 5975MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon
Autosampler: EST Centurion
Purge time: 11 min

Column Type: RTX-VMS
Column Length: 20 Meters
df: 1.00um
ID: 0.18mm
Desorb: 2 min

Volatile Organics: Quimby

Instrument: Agilent 5973MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon
Autosampler: EST Centurion
Purge time: 11 min

Column Type: RTX-VMS
Column Length: 20 Meters
df: 1.00um
ID: 0.18mm
Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar 3000
Autosampler: Archon
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 um
ID: 0.18 mm
Desorb: 2 min



Volatile Organics: Gonzo

Instrument: Agilent 5973 MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Teledyne Velocity
Autosampler: Teledyne Solatek
Purge time: 11 min

Column Type: Restek RTX-502.2
Column Length: 40 Meters
df: 1.00 μ m
ID: 0.18 mm
Desorb: 2 min

Volatile Organics: VOA101

Instrument: Agilent 5975C inert XL MSD
Trap: EST K Trap (VOACARB 3000)
Concentrator: Encon Evolution
Autosampler: EST Centurion
Purge time: 11 min

Column Type: Restek RTX-VMS
Column Length: 30 Meters
df: 1.40 μ m
ID: 0.25 mm
Desorb: 1 min

Volatile Organics: Charlie/Voa100/Voa104

Instrument: Agilent 5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Encon Evolution
Autosampler: EST Centurion
Purge time: 11 min

Column Type: Agilent DB-624
Column Length: 25 Meters
df: 1.12 μ m
ID: 0.20 mm
Desorb: 2 min

Volatile Organics: M

Instrument: Agilent 6890

Concentrator: Tekmar 2016
Autosampler: Tekmar 3100

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 μ m
ID: 0.53 mm

Volatile Organics: L/N

Instrument: Agilent 6890

Concentrator: Encon Evolution
Autosampler: EST Centurion

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 μ m
ID: 0.53 mm

Volatile Organics: O/P

Instrument: Agilent 7890A

Concentrator: Encon Evolution
Autosampler: EST Centurion

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 μ m
ID: 0.53 mm

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instrument: Agilent 6890 GC / 5975 MSD	Column Type: Restek RTX-1
	Column Length: 60 Meters
Concentrator: Entech 7100A	df: 1.00 um
Autosampler: Entech 7016CA	ID: 0.52 mm
Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material	
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material	

Semivolatile Organics Instruments

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (Acid/Base/Neutral Extractables): Juliet/GCMS5/GCMS7

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Dakota/Mork

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Pesticides/PCB : Pest 11/Pest2/Pest7/Pest12

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-CLP (Channel A)	df: 0.32 um
Column: Restek RTX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Pesticides/PCB: Pest 10/ Pest9

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek STX-CLP (Channel A)	df: 0.32 um
Column: Restek STX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs
Column Type: Restek RTX-1701 (Channel A)
Column Type: Restek RTX-5 (Channel B)
Column Length: 30 Meters (Both)

Injection Volume: 1uL
df: 0.25 um
df: 0.25 um
ID: 0.32 mm (Both)

Petro9

Instrument: Agilent 6890 w/FID
Column: Restek RTX-5
Column Length: 30 Meters

Injection Volume: 1uL
df: 0.25 um
ID: 0.32 mm

EPH Petro10/ Petro11

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5-MS
Column Length: 30 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.32 mm

Explosives

Instrument: Dionex ICS-3000, AS50 Autosampler and PDA-100 detectors.
Injection Volume: 100uL
Column: Phenomenex Synergi 4u Hydro-RP and Luna 5u Phenyl-Hexyl.

GC/MS Forensic Semivolatile Organic Instruments

Semivolatile Organics (ALK-PAH extractables): PAH1/PAH2/PAH3/PAH4

Instrument: Agilent 5973C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH8/PAH9/PAH10/PAH11/PAH12/PAH13/PAH14

Instrument: Agilent 5975C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH17/PAH18/PAH19

Instrument: Agilent 5975C MSD
Column Type: Phenomenex ZB-5
Column Length: 60 Meters

Injection volume: 1 ul
df: 0.25 um
ID: 0.25 mm

GC/FID Forensic Semivolatile Organic Instruments

Semivolatile Organics (SHC extractables):PAH1/PAH2/PAH3/PAH4/PAH8

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm

Semivolatile Organics (SHC extractables): FID6 (dual column)/ FID9 (dual column)/ FID17 (dual column)

Instrument: Agilent 6890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm

Semivolatile Organics (SHC extractables):FID7 (dual column)

Instrument: Agilent 7890N w/FID
Column: Restek RTX-5
Column Length: 60 Meters

Injection Volume: 1uL
df: 0.25um
ID: 0.25 mm



Sample Delivery Group Form

Laboratory Job number: L1604136

Project Manager: Chris Anderson

Review Date: 02/22/2016

Project Number: 170301202

Project Name: 450 UNION STREET

Received: 02/16/2016 12:05

Client Account: Langan Engineering & Environmental

Received by: BB

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes
unused can #422

Were Extra Samples Received? No

Do Sample Labels and COC agree? No
Sample-03, -04 FC# is not matching.

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt N/A

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPV Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Absent	No	No	-	No	No

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 02 2016, 05:58 pm

Login Number: L1604136

Account: LANGAN-NYC Langan Engineering & Environmental Project: 170301202

Sample # Client ID Received: 16FEB16 Due Date: 23FEB16
Mat PR Collected Container

L1604136-01 SSV08_021416 11 S0 14FEB16 17:00 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. ASP-B Package Due Date: 02/19/16

ASP-B, CAN-RENT, FLOW-RENT, T015-LL

L1604136-02 AS01_021416 10 S0 14FEB16 17:00 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L1604136-03 AA01_021416 10 S0 14FEB16 10:22 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L1604136-04 SV06_021416 11 S0 14FEB16 10:33 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL, T015-SIM

L1604136-05 SSV07_021416 11 S0 14FEB16 11:24 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 02 2016, 05:58 pm

Login Number: L1604136

Account: LANGAN-NYC Langan Engineering & EnvironmentalProject: 170301202

Sample # Client ID Received: 16FEB16 Due Date: 23FEB16
Mat PR Collected Container

CAN-RENT, FLOW-RENT, T015-LL

L1604136-06 DUP01_021416 11 S0 14FEB16 00:00 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL

L1604136-07 SV04_021416 11 S0 14FEB16 11:58 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL

L1604136-08 SSV05_021416 11 S0 14FEB16 12:35 1-Can-2.7

Need SIM for IA/AA for 7 NYS DMCs. If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, FLOW-RENT, T015-LL

L1604136-09 UNUSED CAN #422 11 S0 1-Can-2.7

If the soil vapor screen indicates a dilution >4X is needed we will have to add T015 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. Package Due Date: 02/19/16

CAN-RENT, CLEAN-FEE, FLOW-RENT

AIR ANALYSIS		PAGE <u>1</u> OF <u>1</u>	Date Rec'd in Lab: <u>2/17/16</u>	ALPHA Job #: <u>4604136</u>														
CHAIN OF CUSTODY 320 Forbes Blvd, Mansfield, MA 02048 TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>450 Union Street</u> Project Location: <u>450 Union Street, Brooklyn, NY</u> Project #: <u>170301202</u> Project Manager: <u>Nicole Rice</u> ALPHA Quote #: _____		Report Information - Data Deliverables ☐ FAX ☒ ADEx Criteria Checker: _____ (Default based on Regulatory Criteria Indicated) Other Formats: ☒ EMAIL (standard pdf report) ☐ Additional Deliverables: <u>NYSDEC EDOs</u> Report to: (if different than Project Manager) <u>Vapor Intrusion Information</u>														
Client Information Client: <u>LANGAN</u> Address: <u>360 W 31st Street</u> <u>NY, NY</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5444</u> Email: <u>nrice@langan.com</u>		Turn-Around Time ☐ Standard ☐ RUSH (only confirmed if pre-approved!) Date Due: _____ Time: _____		Billing Information ☒ Same as Client info PO #: _____														
☐ These samples have been previously analyzed by Alpha Other Project Specific Requirements/Comments: Project-Specific Target Compound List: ☐		Regulatory Requirements/Report Limits State/Fed _____ Program _____ Res / Comm _____																
		ANALYSIS																
		All Columns Below Must Be Filled Out																
ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	☐ TO-15 ☐ TO-15 SIM ☐ APH Subbed Non-petroleum HCs ☐ Fixed Gases ☐ Sulfides & Mercaptans by TO-15					Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
604136-01	SSV08-021416	2/14/16	0800	1700	-30.84	-4.09	SSV	MB	2.7L	507	0068	X						
-02	AS01-021416		0800	1700	-31.35	-7.54	1A			104	420	X						
-03	AA01-021416		0845	1022	-30.59	-1.22	AA			1718	573	X						
-04	SV06-021416		0847	1033	-33.27	-2.79	SV			236	442	X						
-05	SSV07-021416		0924	1124	-28.61	-5.36	SSV			372	61	X						
-06	DW01-021416		—	—	-28.67	-10.40	SSV			543	386	X						
-07	SV04-021416		0958	1138	-33.05	-3.98	SV			1748	450	X						
-08	SSV05-021416		1035	1235	-29.14	-3.47	SSV			1234	173	X						
*SAMPLE MATRIX CODES AA = Ambient Air (Indoor/Outdoor) SV = Soil Vapor/Landfill Gas/SVE Other = Please Specify		Container Type <u>CS</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.														
Relinquished By: <u>[Signature]</u>		Date/Time: <u>2/16/16 1205</u>		Received By: <u>[Signature]</u>		Date/Time: <u>2-16-16 1205</u>												
<u>Al Williams</u>		<u>2-16-16 1840</u>		<u>Tom [Signature]</u>		<u>2-16-16 1840</u>												
<u>Al Williams</u>		<u>2-16-16 2145</u>		<u>Al Williams</u>		<u>2-16-16 2145</u>												
<u>Al Williams</u>		<u>2-17-16 00:55</u>		<u>Beth [Signature]</u>		<u>2/17/16 00:55</u>												

Supporting Documentation

Project Name: 450 UNION STREET

Lab Number: L1604136

Project Number: 170301202

Report Date: 03/02/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604136-01	SSV08_021416	0068	#20 AMB	02/13/16	217032		-	-	-	Pass	4.5	4.7	4
L1604136-01	SSV08_021416	507	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-2.4	-	-	-	-
L1604136-02	AS01_021416	0420	#16 SV	02/13/16	217032		-	-	-	Pass	4.1	4.3	5
L1604136-02	AS01_021416	104	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-6.5	-	-	-	-
L1604136-03	AA01_021416	0579	#30 AMB	02/13/16	217032		-	-	-	Pass	17.5	18.8	7
L1604136-03	AA01_021416	1718	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	2.5	-	-	-	-
L1604136-04	SV06_021416	0742	#2 SV	02/13/16	217032		-	-	-	Pass	17.9	19.6	9
L1604136-04	SV06_021416	236	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	1.9	-	-	-	-
L1604136-05	SSV07_021416	0061	#30 AMB	02/13/16	217032		-	-	-	Pass	18.0	18.2	1
L1604136-05	SSV07_021416	372	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-2.6	-	-	-	-
L1604136-06	DUP01_021416	0386	#30 SV	02/13/16	217032		-	-	-	Pass	17.3	15.0	14
L1604136-06	DUP01_021416	543	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-8.6	-	-	-	-
L1604136-07	SV04_021416	0490	#30 SV	02/13/16	217032		-	-	-	Pass	18.0	19.3	7
L1604136-07	SV04_021416	1748	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	0.6	-	-	-	-
L1604136-08	SSV05_021416	0173	#30 AMB	02/13/16	217032		-	-	-	Pass	18.0	19.2	6

Project Name: 450 UNION STREET

Lab Number: L1604136

Project Number: 170301202

Report Date: 03/02/16

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1604136-08	SSV05_021416	234	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-0.4	-	-	-	-
L1604136-09	UNUSED CAN #422	0561	#30 SV	02/13/16	217032		-	-	-	Pass	17.5	19.0	8
L1604136-09	UNUSED CAN #422	422	2.7L Can	02/13/16	217032	L1603632-01	Pass	-29.9	-29.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/11/16 18:35
Analyst: RY

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/11/16 18:35
Analyst: RY

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01
Client ID: CAN 2192 SHELF 2
Sample Location:

Date Collected: 02/10/16 16:00
Date Received: 02/11/16
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1603632
Report Date: 03/02/16

Air Canister Certification Results

Lab ID: L1603632-01 Date Collected: 02/10/16 16:00
 Client ID: CAN 2192 SHELF 2 Date Received: 02/11/16
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Lab Duplicates Form 3

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Client Sample ID	: AS01_021416	Matrix	: SOIL_VAPOR
Lab Sample ID	: L1604136-02	Analysis Date	: 02/19/16 18:18
Lab File ID	: R239091	DUP File ID	: R239092
Dup Sample ID	: WG866471-5	DUP Analysis Date	: 02/19/16 18:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.341	0.433	24	25
Chloromethane	0.409	0.470	14	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	246	260	6	25
Vinyl bromide	ND	ND	NC	25
Acetone	2.06	2.12	3	25
Trichlorofluoromethane	ND	0.210	NC	25
Isopropanol	1.91	1.99	4	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	ND	ND	NC	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	0.356	0.363	2	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25
Benzene	0.354	0.371	5	25
Cyclohexane	ND	ND	NC	25

Lab Duplicates Form 3

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Client Sample ID	: AS01_021416	Matrix	: SOIL_VAPOR
Lab Sample ID	: L1604136-02	Analysis Date	: 02/19/16 18:18
Lab File ID	: R239091	DUP File ID	: R239092
Dup Sample ID	: WG866471-5	DUP Analysis Date	: 02/19/16 18:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.245	0.255	4	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	0.220	NC	25
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25

Lab Duplicates Form 3

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Client Sample ID	: AS01_021416	Matrix	: SOIL_VAPOR
Lab Sample ID	: L1604136-02	Analysis Date	: 02/19/16 18:18
Lab File ID	: R239091	DUP File ID	: R239092
Dup Sample ID	: WG866471-5	DUP Analysis Date	: 02/19/16 18:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25

Laboratory Control Sample Form 3

Client : Langan Engineering & Environmental Lab Number : L1604136
 Project Name : 450 UNION STREET Project Number : 170301202
 Matrix : AIR
 LCS Sample ID : WG866471-3 Analysis Date : 02/19/16 14:17 File ID : R239087
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Chlorodifluoromethane	10	7.81	78				-	70-130	-
Propylene	10	8.84	88				-	70-130	-
Propane	10	7.37	74				-	70-130	-
Dichlorodifluoromethane	10	9.42	94				-	70-130	-
Chloromethane	10	8.44	84				-	70-130	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10	9.62	96				-	70-130	-
Methanol	50	35.4	71				-	70-130	-
Vinyl chloride	10	9.17	92				-	70-130	-
1,3-Butadiene	10	9.27	93				-	70-130	-
Butane	10	7.67	77				-	70-130	-
Bromomethane	10	9.74	97				-	70-130	-
Chloroethane	10	9.31	93				-	70-130	-
Ethyl Alcohol	50	36.5	73				-	70-130	-
Dichlorofluoromethane	10	8.12	81				-	70-130	-
Vinyl bromide	10	10.3	103				-	70-130	-
Acrolein	10	7.52	75				-	70-130	-
Acetone	50	40.3	81				-	70-130	-
Acetonitrile	10	7.17	72				-	70-130	-
Trichlorofluoromethane	10	9.59	96				-	70-130	-
iso-Propyl Alcohol	25	19.8	79				-	70-130	-
Acrylonitrile	10	7.52	75				-	70-130	-
Pentane	10	7.38	74				-	70-130	-
Ethyl ether	10	7.47	75				-	70-130	-
1,1-Dichloroethene	10	9.08	91				-	70-130	-
tert-Butyl Alcohol	10	8.63	86				-	70-130	-
Methylene chloride	10	9.12	91				-	70-130	-
3-Chloropropene	10	9.14	91				-	70-130	-
Carbon disulfide	10	9.63	96				-	70-130	-

Laboratory Control Sample Form 3

Client : Langan Engineering & Environmental Lab Number : L1604136
 Project Name : 450 UNION STREET Project Number : 170301202
 Matrix : AIR
 LCS Sample ID : WG866471-3 Analysis Date : 02/19/16 14:17 File ID : R239087
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	10.3	103				-	70-130	-
trans-1,2-Dichloroethene	10	8.44	84				-	70-130	-
1,1-Dichloroethane	10	9.43	94				-	70-130	-
Methyl tert butyl ether	10	9.32	93				-	70-130	-
Vinyl acetate	10	10.4	104				-	70-130	-
2-Butanone	10	8.91	89				-	70-130	-
cis-1,2-Dichloroethene	10	10.0	100				-	70-130	-
Ethyl Acetate	10	10.2	102				-	70-130	-
Chloroform	10	9.89	99				-	70-130	-
Tetrahydrofuran	10	7.98	80				-	70-130	-
2,2-Dichloropropane	10	8.52	85				-	70-130	-
1,2-Dichloroethane	10	9.38	94				-	70-130	-
n-Hexane	10	7.86	79				-	70-130	-
Isopropyl Ether	10	7.91	79				-	70-130	-
Ethyl-Tert-Butyl-Ether	10	7.48	75				-	70-130	-
1,1,1-Trichloroethane	10	8.26	83				-	70-130	-
1,1-Dichloropropene	10	7.92	79				-	70-130	-
Benzene	10	8.38	84				-	70-130	-
Carbon tetrachloride	10	8.62	86				-	70-130	-
Cyclohexane	10	7.88	79				-	70-130	-
Tertiary-Amyl Methyl Ether	10	7.83	78				-	70-130	-
Dibromomethane	10	8.43	84				-	70-130	-
1,2-Dichloropropane	10	8.32	83				-	70-130	-
Bromodichloromethane	10	8.87	89				-	70-130	-
1,4-Dioxane	10	8.95	90				-	70-130	-
Trichloroethene	10	9.60	96				-	70-130	-
2,2,4-Trimethylpentane	10	8.22	82				-	70-130	-
Methyl Methacrylate	10	7.10	71				-	70-130	-



Laboratory Control Sample Form 3

Client : Langan Engineering & Environmental Lab Number : L1604136
 Project Name : 450 UNION STREET Project Number : 170301202
 Matrix : AIR
 LCS Sample ID : WG866471-3 Analysis Date : 02/19/16 14:17 File ID : R239087
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Heptane	10	7.78	78				-	70-130	-
cis-1,3-Dichloropropene	10	9.07	91				-	70-130	-
4-Methyl-2-pentanone	10	8.02	80				-	70-130	-
trans-1,3-Dichloropropene	10	7.55	76				-	70-130	-
1,1,2-Trichloroethane	10	8.91	89				-	70-130	-
Toluene	10	9.53	95				-	70-130	-
1,3-Dichloropropane	10	9.06	91				-	70-130	-
2-Hexanone	10	9.68	97				-	70-130	-
Dibromochloromethane	10	10.3	103				-	70-130	-
1,2-Dibromoethane	10	10.2	102				-	70-130	-
Butyl Acetate	10	8.70	87				-	70-130	-
Octane	10	8.89	89				-	70-130	-
Tetrachloroethene	10	10.6	106				-	70-130	-
1,1,1,2-Tetrachloroethane	10	9.62	96				-	70-130	-
Chlorobenzene	10	10.4	104				-	70-130	-
Ethylbenzene	10	10.2	102				-	70-130	-
p/m-Xylene	20	20.5	102				-	70-130	-
Bromoform	10	11.0	110				-	70-130	-
Styrene	10	10.6	106				-	70-130	-
1,1,2,2-Tetrachloroethane	10	10.5	105				-	70-130	-
o-Xylene	10	10.4	104				-	70-130	-
1,2,3-Trichloropropane	10	9.04	90				-	70-130	-
Nonane (C9)	10	8.37	84				-	70-130	-
Isopropylbenzene	10	9.86	99				-	70-130	-
Bromobenzene	10	9.20	92				-	70-130	-
o-Chlorotoluene	10	10.1	101				-	70-130	-
n-Propylbenzene	10	9.97	100				-	70-130	-
p-Chlorotoluene	10	9.27	93				-	70-130	-



Laboratory Control Sample Form 3

Client : Langan Engineering & Environmental Lab Number : L1604136
 Project Name : 450 UNION STREET Project Number : 170301202
 Matrix : AIR
 LCS Sample ID : WG866471-3 Analysis Date : 02/19/16 14:17 File ID : R239087
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
4-Ethyltoluene	10	10.2	102				-	70-130	-
1,3,5-Trimethylbenzene	10	10.9	109				-	70-130	-
tert-Butylbenzene	10	9.91	99				-	70-130	-
1,2,4-Trimethylbenzene	10	10.8	108				-	70-130	-
Decane (C10)	10	9.10	91				-	70-130	-
Benzyl chloride	10	10.4	104				-	70-130	-
1,3-Dichlorobenzene	10	11.2	112				-	70-130	-
1,4-Dichlorobenzene	10	11.0	110				-	70-130	-
sec-Butylbenzene	10	9.73	97				-	70-130	-
p-Isopropyltoluene	10	9.20	92				-	70-130	-
1,2-Dichlorobenzene	10	11.1	111				-	70-130	-
n-Butylbenzene	10	10.0	100				-	70-130	-
1,2-Dibromo-3-chloropropane	10	9.20	92				-	70-130	-
Undecane	10	9.51	95				-	70-130	-
Dodecane (C12)	10	9.73	97				-	70-130	-
1,2,4-Trichlorobenzene	10	12.2	122				-	70-130	-
Naphthalene	10	10.7	107				-	70-130	-
1,2,3-Trichlorobenzene	10	11.0	110				-	70-130	-
Hexachlorobutadiene	10	11.5	115				-	70-130	-

Method Blank Summary Form 4

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Lab Sample ID	: WG866471-4	Lab File ID	: R239089
Instrument ID	: AIRPIANO2		
Matrix	: SOIL_VAPOR	Analysis Date	: 02/19/16 16:28

Client Sample No.	Lab Sample ID	Analysis Date
WG866471-3LCS	WG866471-3	02/19/16 14:17
AS01_021416	L1604136-02	02/19/16 18:18
AS01_021416DUP	WG866471-5	02/19/16 18:53
AA01_021416	L1604136-03	02/19/16 19:28
SSV08_021416	L1604136-01	02/19/16 20:02
SV06_021416	L1604136-04D	02/19/16 20:34
SSV07_021416	L1604136-05	02/19/16 21:09
DUP01_021416	L1604136-06	02/19/16 21:44
SV04_021416	L1604136-07	02/19/16 22:18
SSV05_021416	L1604136-08D	02/19/16 22:50
SSV05_021416	L1604136-08D2	02/20/16 08:33

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Langan Engineering & Environmental	Lab Number : L1604136
Project Name : 450 UNION STREET	Project Number : 170301202
Instrument ID : AIRPIANO2	Analysis Date : 02/07/16 21:26
Tune Standard : WG863495-1	Tune File ID : R238819_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	23.2
75	30.0 - 66.0% of mass 95	49.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	76.5
175	4.0 - 9.0% of mass 174	5.8 (7.6)1
176	93.0 - 101% of mass 174	73.3 (95.9)1
177	5.0 - 9.0% of mass 176	5 (6.9)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
0.2	R836951-1	R238823	02/07/16 23:39
0.5	R836951-2	R238824	02/08/16 00:13
1.0	R836951-3	R238825	02/08/16 00:48
5.0	R836951-4	R238826	02/08/16 01:22
10	R836951-5	R238827	02/08/16 01:57
20	R836951-6	R238828	02/08/16 02:30
50.0	R836951-7	R238829	02/08/16 03:03
100.0	R836951-8	R238830	02/08/16 03:39
ICV Quant	R836951-9	R238833	02/08/16 08:31

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Langan Engineering & Environmental	Lab Number : L1604136
Project Name : 450 UNION STREET	Project Number : 170301202
Instrument ID : AIRPIANO2	Analysis Date : 02/19/16 13:04
Tune Standard : WG866471-1	Tune File ID : R239085_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	81.7
175	4.0 - 9.0% of mass 174	6 (7.4)1
176	93.0 - 101% of mass 174	80.7 (98.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG866471-2CCAL	WG866471-2	R239086	02/19/16 13:41
WG866471-3LCS	WG866471-3	R239087	02/19/16 14:17
WG866471-4BLANK	WG866471-4	R239089	02/19/16 16:28
AS01_021416	L1604136-02	R239091	02/19/16 18:18
WG866471-5DUP	WG866471-5	R239092	02/19/16 18:53
AA01_021416	L1604136-03	R239093	02/19/16 19:28
SSV08_021416	L1604136-01	R239094	02/19/16 20:02
SV06_021416	L1604136-04D	R239095	02/19/16 20:34
SSV07_021416	L1604136-05	R239096	02/19/16 21:09
DUP01_021416	L1604136-06	R239097	02/19/16 21:44
SV04_021416	L1604136-07	R239098	02/19/16 22:18
SSV05_021416	L1604136-08D	R239099	02/19/16 22:50
SSV05_021416	L1604136-08D2	R239108	02/20/16 08:33

Internal Standard Area and RT Summary

Form 8

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Instrument ID	: AIRPIANO2	Analysis Date	: 02/19/16 13:41
Sample No	: WG866471-2	Lab File ID	: R239086

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG866471-2	147221	10.38	368790	12.54	80342	16.89
Upper Limit	206109	10.71	516306	12.87	112479	17.22
Lower Limit	88333	10.05	221274	12.21	48205	16.56
Sample ID						
WG866471-3 LCS	144978	10.38	356107	12.54	79369	16.89
WG866471-4 BLANK	138625	10.37	346466	12.54	72876	16.89
AS01_021416	144403	10.38	346049	12.54	74940	16.89
AS01_021416 DUP	135546	10.38	338281	12.54	70178	16.89
AA01_021416	139125	10.38	344324	12.55	74943	16.90
SSV08_021416	140575	10.39	340076	12.55	76643	16.89
SV06_021416	141107	10.38	350502	12.55	79561	16.89
SSV07_021416	139056	10.38	339178	12.54	73981	16.90
DUP01_021416	133587	10.38	329094	12.54	69403	16.90
SV04_021416	140031	10.38	346221	12.54	74165	16.89
SSV05_021416	138278	10.39	343268	12.55	72457	16.89
SSV05_021416	142800	10.38	372314	12.54	81031	16.89

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

* Values outside of QC limits



Determination of Method Detection Limits

Alpha Analytical, Inc.

Mansfield, MA

Approved

Page 1 of 3

Analyst: AJ
Date: 5/5/2009
Instrument: Airplane 2
Column ID: RTX-1

Method: TO-15 (TALL)

2009

GC/MS

Toxic Organic Air Pollutants

MDL Table		Data file	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	T-value used to calculate MDL value: 3.143					Comments
Analyte		Date	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	Mean	Mean	Std Dev	MDL	RL	
		Spike Conc.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	ppbv	Accuracy		ppbv	ppbv	
1	chlorodifluoromethane	0.2	0.157	0.167	0.155	0.157	0.147	0.163	0.148	0.156	78%	0.007	0.02	0.2	
2	propylene	0.2	0.236	0.248	0.251	0.254	0.236	0.263	0.249	0.248	124%	0.010	0.03	0.2	
3	propane	0.2	0.225	0.234	0.218	0.221	0.22	0.229	0.218	0.224	112%	0.006	0.02	0.5	
4	dichlorodifluoromethane	0.2	0.212	0.202	0.222	0.215	0.205	0.218	0.211	0.212	106%	0.007	0.02	0.2	
5	chloromethane	0.2	0.243	0.217	0.242	0.243	0.191	0.237	0.221	0.228	114%	0.019	0.06	0.2	
6	Freon-114	0.2	0.208	0.2	0.195	0.201	0.189	0.203	0.195	0.199	99%	0.006	0.02	0.2	
7	methanol	1	1.271	1.239	1.19	1.135	1.18	1.157	1.193	1.195	120%	0.047	0.15	5.0	
8	vinyl chloride	0.2	0.201	0.201	0.194	0.19	0.185	0.208	0.191	0.196	98%	0.008	0.02	0.2	
9	1,3-butadiene	0.2	0.202	0.208	0.201	0.181	0.189	0.219	0.199	0.200	100%	0.012	0.04	0.2	
10	butane	0.2	0.254	0.219	0.249	0.244	0.231	0.249	0.244	0.241	121%	0.012	0.04	0.2	
11	acetaldehyde	2.1398	1.782	1.969	1.568	1.615	2.033	1.889	1.867	1.818	85%	0.174	0.55	5.0	
12	bromomethane	0.2	0.218	0.217	0.212	0.207	0.199	0.208	0.203	0.209	105%	0.007	0.02	0.2	
13	chloroethane	0.2	0.188	0.174	0.175	0.183	0.186	0.181	0.182	0.181	91%	0.005	0.02	0.2	
14	ethanol	1	1.247	1.202	1.18	1.179	1.134	1.186	1.213	1.192	119%	0.035	0.11	2.5	
15	dichlorofluoromethane	0.2	0.196	0.203	0.196	0.191	0.194	0.184	0.19	0.193	97%	0.006	0.02	0.2	
16	vinyl bromide	0.2	0.201	0.202	0.193	0.193	0.200	0.200	0.189	0.197	98%	0.005	0.02	0.2	
17	acrolein	0.2	0.233	0.232	0.268	0.179	0.228	0.242	0.165	0.221	111%	0.036	0.11	0.5	
18	acetone	0.6761	0.592	0.611	0.55	0.61	0.594	0.611	0.619	0.598	88%	0.023	0.07	0.5	
19	acetonitrile	0.2	0.200	0.196	0.243	0.184	0.223	0.233	0.244	0.218	109%	0.024	0.08	0.2	
20	trichlorofluoromethane	0.2	0.226	0.214	0.229	0.217	0.206	0.215	0.209	0.217	108%	0.008	0.03	0.5	
21	isopropyl alcohol	0.4334	0.421	0.424	0.391	0.408	0.397	0.415	0.421	0.411	95%	0.013	0.04	0.2	
22	acrylonitrile	0.2	0.146	0.157	0.154	0.154	0.135	0.162	0.168	0.154	77%	0.011	0.03	0.2	
23	pentane	0.2	0.244	0.22	0.223	0.225	0.203	0.241	0.234	0.227	114%	0.014	0.04	0.2	
24	ethyl ether	0.2	0.173	0.186	0.177	0.17	0.155	0.174	0.17	0.172	86%	0.009	0.03	0.2	
25	1,1-dichloroethene	0.2	0.206	0.207	0.204	0.202	0.191	0.193	0.188	0.199	99%	0.008	0.02	0.5	
26	Tertiary butyl Alcohol	0.2	0.198	0.19	0.197	0.188	0.199	0.18	0.201	0.193	97%	0.008	0.02	0.5	
27	methylene chloride	0.2	0.263	0.257	0.257	0.262	0.261	0.25	0.236	0.255	128%	0.010	0.03	0.2	
28	3-chloropropene	0.2	0.22	0.234	0.23	0.202	0.222	0.235	0.203	0.221	110%	0.014	0.04	0.2	
29	carbon disulfide	0.2	0.229	0.211	0.225	0.225	0.204	0.229	0.21	0.219	110%	0.010	0.03	0.2	
30	Freon 113	0.2	0.203	0.215	0.203	0.201	0.193	0.210	0.203	0.204	102%	0.007	0.02	0.2	
31	trans-1,2-dichloroethene	0.2	0.204	0.193	0.184	0.200	0.197	0.190	0.188	0.194	97%	0.007	0.02	0.2	
32	1,1-dichloroethane	0.2	0.193	0.205	0.195	0.195	0.198	0.196	0.172	0.193	97%	0.010	0.03	0.2	
33	MTBE	0.2	0.171	0.169	0.159	0.176	0.173	0.161	0.176	0.169	85%	0.007	0.02	0.2	
34	vinyl acetate	0.2	0.191	0.182	0.163	0.175	0.165	0.16	0.172	0.173	86%	0.011	0.03	0.2	
35	2-butanone	0.2	0.190	0.191	0.181	0.185	0.178	0.182	0.188	0.185	93%	0.005	0.02	0.2	
36	cis-1,2-dichloroethene	0.2	0.173	0.185	0.183	0.187	0.173	0.181	0.187	0.181	91%	0.006	0.02	0.2	
37	ethyl acetate	0.2	0.169	0.223	0.205	0.179	0.202	0.223	0.17	0.196	98%	0.023	0.07	0.2	
38	chloroform	0.2	0.202	0.193	0.178	0.172	0.183	0.183	0.181	0.185	92%	0.010	0.03	0.2	
39	tetrahydrofuran	0.2	0.169	0.164	0.149	0.154	0.154	0.164	0.156	0.159	79%	0.007	0.02	0.2	
40	2,2-dichloropropane	0.2	0.187	0.185	0.190	0.173	0.18	0.171	0.178	0.181	90%	0.007	0.02	0.5	
41	1,2-dichloroethane	0.2	0.176	0.177	0.161	0.177	0.184	0.169	0.153	0.171	86%	0.011	0.03	0.2	
42	hexane	0.2	0.207	0.185	0.205	0.182	0.176	0.191	0.194	0.191	96%	0.012	0.04	0.2	
43	diisopropyl ether	0.2	0.186	0.21	0.19	0.201	0.167	0.210	0.185	0.193	96%	0.015	0.05	0.2	
44	tert-butyl ethyl ether	0.2	0.159	0.159	0.146	0.152	0.156	0.156	0.16	0.155	78%	0.005	0.02	0.2	

Determination of Method Detection Limits

Alpha Analytical, Inc.
Mansfield, MA

Approved

Page 2 of 3

Analyst: AJ
Date: 5/5/2009
Instrument: Airpand 2
Column ID: RTX-1

Method: TO-15 (TALL)

2009

GC/MS

Toxic Organic Air Pollutants

	MDL Table	Data file	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	T-value used to calculate MDL value: 3.143						Comments
		Date	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09							
		Analyte	Spike Conc.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Mean	Mean	Std Dev	MDL	RL	
		ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	Accuracy		ppbv	ppbv		
45	1,1,1-trichloroethane	0.2	0.204	0.182	0.188	0.184	0.180	0.183	0.192	0.188	94%	0.008	0.03	0.2		
46	1,1-dichloropropene	0.2	0.190	0.176	0.175	0.176	0.175	0.174	0.164	0.176	88%	0.008	0.02	0.2		
47	benzene	0.2	0.224	0.203	0.206	0.194	0.211	0.207	0.195	0.206	103%	0.010	0.03	0.2		
48	thiophehe	0.2	0.197	0.177	0.162	0.170	0.171	0.183	0.168	0.175	88%	0.012	0.04	0.2		
49	carbon tetrachloride	0.2	0.193	0.177	0.172	0.182	0.161	0.183	0.176	0.178	89%	0.010	0.03	0.2		
50	cyclohexane	0.2	0.211	0.198	0.197	0.195	0.197	0.188	0.196	0.197	99%	0.007	0.02	0.2		
51	tert-amyl methyl ether	0.2	0.161	0.156	0.145	0.135	0.135	0.155	0.156	0.149	75%	0.011	0.03	0.2		
52	dibromomethane	0.2	0.199	0.171	0.173	0.168	0.183	0.164	0.165	0.175	87%	0.012	0.04	0.2		
53	1,2-dichloropropane	0.2	0.168	0.146	0.146	0.149	0.131	0.157	0.163	0.151	76%	0.012	0.04	0.2		
54	bromodichloromethane	0.2	0.171	0.164	0.165	0.157	0.170	0.168	0.17	0.166	83%	0.005	0.02	0.2		
55	1,4-dioxane	0.4345	0.352	0.320	0.335	0.308	0.319	0.308	0.304	0.321	74%	0.017	0.05	0.2		
56	trichloroethene	0.2	0.185	0.192	0.191	0.178	0.177	0.183	0.186	0.185	92%	0.006	0.02	0.2		
57	2,2,4-trimethylpentane	0.2	0.195	0.189	0.184	0.177	0.176	0.193	0.189	0.186	93%	0.007	0.02	0.2		
58	heptane	0.2	0.186	0.170	0.175	0.167	0.169	0.172	0.175	0.173	87%	0.006	0.02	0.2		
59	2,4,4-trimethyl-1-pentene	0.2	0.181	0.177	0.173	0.172	0.168	0.164	0.165	0.171	86%	0.006	0.02	0.2		
60	cis-1,3-dichloropropene	0.2	0.157	0.150	0.140	0.148	0.141	0.156	0.141	0.148	74%	0.007	0.02	0.2		
61	4-methyl-2-pentanone	0.2	0.175	0.169	0.156	0.161	0.157	0.167	0.177	0.166	83%	0.008	0.03	0.2		
62	2,4,4-trimethyl-2-pentene	0.2	0.174	0.183	0.178	0.182	0.164	0.173	0.163	0.174	87%	0.008	0.03	0.2		
63	trans-1,3-dichloropropene	0.2	0.146	0.142	0.133	0.125	0.128	0.125	0.135	0.133	67%	0.008	0.03	0.2		
64	1,1,2-trichloroethane	0.2	0.146	0.16	0.141	0.159	0.131	0.149	0.135	0.146	73%	0.011	0.04	0.2		
65	toluene	0.2	0.176	0.181	0.17	0.161	0.161	0.164	0.163	0.168	84%	0.008	0.02	0.2		
66	2-methylthiophene	0.2	0.123	0.149	0.156	0.107	0.125	0.177	0.116	0.136	68%	0.025	0.08	0.2		
67	1,3-dichloropropane	0.2	0.147	0.149	0.143	0.145	0.135	0.132	0.138	0.141	71%	0.006	0.02	0.2		
68	2-hexanone	0.2	0.177	0.170	0.168	0.16	0.165	0.151	0.162	0.165	82%	0.008	0.03	0.2		
69	3-methylthiophene	0.2	0.153	0.158	0.156	0.152	0.155	0.155	0.150	0.154	77%	0.003	0.01	0.2		
70	dibromochloromethane	0.2	0.161	0.154	0.163	0.162	0.152	0.152	0.156	0.157	79%	0.005	0.02	0.2		
71	1,2-dibromoethane	0.2	0.159	0.155	0.150	0.155	0.151	0.149	0.156	0.154	77%	0.004	0.01	0.2		
72	butyl acetate	0.2	0.206	0.213	0.242	0.23	0.202	0.181	0.22	0.213	107%	0.020	0.06	0.2		
73	octane	0.2	0.167	0.171	0.168	0.162	0.164	0.162	0.167	0.166	83%	0.003	0.01	0.2		
74	tetrachloroethene	0.2	0.186	0.173	0.182	0.179	0.179	0.18	0.178	0.180	90%	0.004	0.01	0.4		
75	1,1,1,2-tetrachloroethane	0.2	0.155	0.163	0.154	0.15	0.137	0.158	0.147	0.152	76%	0.008	0.03	0.2		
76	chlorobenzene	0.2	0.160	0.147	0.161	0.153	0.152	0.157	0.151	0.154	77%	0.005	0.02	0.2		
77	ethylbenzene	0.2	0.152	0.146	0.141	0.141	0.144	0.148	0.159	0.147	74%	0.006	0.02	0.2		
78	2-ethylthiophene	0.2	0.149	0.134	0.125	0.132	0.126	0.128	0.132	0.132	86%	0.008	0.03	0.2		
79	m+p-xylene	0.4	0.308	0.287	0.273	0.276	0.277	0.289	0.31	0.289	72%	0.015	0.05	0.2		
80	bromoform	0.2	0.144	0.137	0.131	0.135	0.128	0.132	0.126	0.133	67%	0.006	0.02	0.2		
81	styrene	0.2	0.148	0.149	0.136	0.137	0.152	0.138	0.151	0.144	72%	0.007	0.02	0.2		
82	1,1,2,2-tetrachloroethane	0.2	0.144	0.144	0.142	0.147	0.139	0.138	0.151	0.144	72%	0.005	0.01	0.2		
83	o-xylene	0.2	0.157	0.145	0.14	0.151	0.14	0.146	0.149	0.147	73%	0.006	0.02	0.2		
84	1,2,3-trichloropropane	0.2	0.140	0.156	0.151	0.133	0.160	0.136	0.146	0.146	73%	0.010	0.03	0.2		
85	nonane	0.2	0.151	0.141	0.15	0.126	0.134	0.157	0.138	0.142	71%	0.011	0.03	0.2		
86	isopropylbenzene	0.2	0.164	0.153	0.143	0.144	0.154	0.153	0.155	0.152	76%	0.007	0.02	0.2		
87	bromobenzene	0.2	0.154	0.139	0.142	0.142	0.138	0.141	0.149	0.144	72%	0.006	0.02	0.2		
88	2-chlorotoluene	0.2	0.148	0.142	0.135	0.134	0.129	0.136	0.153	0.140	70%	0.009	0.03	0.20		
89	n-propylbenzene	0.2	0.168	0.153	0.133	0.141	0.145	0.14	0.154	0.148	74%	0.012	0.04	0.20		
90	4-chlorotoluene	0.2	0.158	0.147	0.139	0.149	0.149	0.143	0.161	0.149	75%	0.008	0.02	0.20		
91	4-ethyl toluene	0.2	0.161	0.151	0.145	0.148	0.149	0.15	0.163	0.152	76%	0.007	0.02	0.20		
92	1,3,5-trimethylbenzene	0.2	0.154	0.151	0.14	0.142	0.15	0.151	0.153	0.149	74%	0.005	0.02	0.20		

Determination of Method Detection Limits

Alpha Analytical, Inc.

Mansfield, MA

Approved

Page 3 of 3

Analyst: AJ

Date: 5/5/2009

Instrument: Airplane 2

Column ID: RTX-1

Method: TO-15 (TALL)

2009

GC/MS

Toxic Organic Air Pollutants

	MDL Table	Data file	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	T-value used to calculate MDL value: 3.143					
		Date	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09	5/5/09						
		Spike Conc.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Mean	Mean	Std Dev	MDL	RL	Comments
	Analyte	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	Accuracy		ppbv	ppbv	
93	tert-butylbenzene	0.2	0.148	0.148	0.141	0.141	0.132	0.143	0.145	0.143	71%	0.006	0.02	0.20	
94	1,2,4-trimethylbenzene	0.2	0.161	0.15	0.144	0.145	0.149	0.155	0.164	0.153	76%	0.008	0.02	0.20	
95	decane	0.2	0.149	0.143	0.133	0.136	0.139	0.147	0.15	0.142	71%	0.007	0.02	0.20	
96	benzyl chloride	0.2	0.15	0.145	0.132	0.142	0.143	0.142	0.153	0.144	72%	0.007	0.02	0.20	
97	1,3-dichlorobenzene	0.2	0.155	0.144	0.145	0.151	0.141	0.148	0.150	0.148	74%	0.005	0.01	0.20	
98	1,4-dichlorobenzene	0.2	0.170	0.151	0.156	0.157	0.144	0.164	0.152	0.156	78%	0.009	0.03	0.20	
99	sec-butylbenzene	0.2	0.155	0.149	0.143	0.146	0.15	0.149	0.157	0.150	75%	0.005	0.02	0.20	
100	1,2,3-trimethylbenzene	0.2	0.144	0.135	0.133	0.132	0.127	0.129	0.135	0.134	67%	0.005	0.02	0.20	
101	p-isopropyltoluene	0.2	0.151	0.146	0.142	0.146	0.143	0.147	0.157	0.147	74%	0.005	0.02	0.20	
102	1,2-dichlorobenzene	0.2	0.151	0.138	0.146	0.148	0.141	0.146	0.147	0.145	73%	0.004	0.01	0.20	
103	n-butylbenzene	0.2	0.156	0.149	0.144	0.148	0.143	0.142	0.158	0.149	74%	0.006	0.02	0.20	
104	indan	0.2	0.135	0.126	0.133	0.129	0.130	0.126	0.140	0.131	66%	0.005	0.02	0.20	
105	indene	0.2	0.134	0.122	0.124	0.123	0.123	0.123	0.128	0.125	63%	0.004	0.01	0.20	
106	1,2-dibromo-3-chloropropane	0.2	0.161	0.143	0.142	0.153	0.134	0.144	0.153	0.147	74%	0.009	0.03	0.20	
107	undecane	0.2	0.141	0.145	0.126	0.135	0.138	0.132	0.139	0.137	68%	0.006	0.02	0.20	
108	1,2,4,5-tetramethylbenzene	0.5	0.236	0.298	0.287	0.25	0.236	0.259	0.283	0.264	53%	0.025	0.08	2.50	
109	dodecane	0.2	0.159	0.16	0.139	0.152	0.15	0.155	0.156	0.153	77%	0.007	0.02	0.50	
110	1,2,4-trichlorobenzene	0.2	0.159	0.156	0.167	0.153	0.149	0.143	0.173	0.157	79%	0.010	0.03	0.20	
111	naphthalene	0.2	0.159	0.133	0.138	0.139	0.139	0.139	0.150	0.142	71%	0.009	0.03	0.20	
112	1,2,3-trichlorobenzene	0.2	0.158	0.138	0.139	0.136	0.141	0.151	0.155	0.145	73%	0.009	0.03	0.20	
113	benzothiophene	0.2	0.144	0.127	0.126	0.128	0.126	0.128	0.144	0.132	66%	0.008	0.03	2.50	
114	hexachlorobutadiene	0.2	0.149	0.139	0.134	0.139	0.146	0.143	0.150	0.143	71%	0.006	0.02	0.20	
115	2-methylnaphthalene	0.2	0.150	0.128	0.134	0.132	0.130	0.139	0.155	0.138	69%	0.010	0.03	2.50	
116	1-methylnaphthalene	0.2	0.147	0.133	0.141	0.139	0.140	0.128	0.148	0.139	70%	0.007	0.02	2.50	
	Surrogates														
1	1,2-dichloroethane-D4	10	9.491	10.266	10.171	9.732	10.291	9.622	10.271	9.978	100%				
2	toluene-D8	10	8.922	10.279	10.213	9.916	9.957	9.729	10.237	9.893	99%				
3	bromofluorobenzene	10	8.823	9.833	9.556	9.759	9.476	9.497	9.728	9.525	95%				

Comments:

Volatiles Sample Data

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-01
 Client ID : SSV08_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239094
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:02
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.464	0.200	--	2.29	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	27.9	5.00	--	52.6	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	135	1.00	--	321	2.38	--	
75-69-4	Trichlorofluoromethane	0.559	0.200	--	3.14	1.12	--	
67-63-0	Isopropanol	1.36	0.500	--	3.34	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.81	0.500	--	5.49	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	1.13	0.200	--	3.52	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	6.71	0.500	--	19.8	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.621	0.200	--	3.03	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	2.02	0.200	--	7.12	0.705	--	



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-01
 Client ID : SSV08_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239094
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:02
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	1.41	0.200	--	4.50	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.253	0.200	--	0.871	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	1.89	0.200	--	7.75	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.532	0.500	--	2.18	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	3.75	0.200	--	14.1	0.754	--	
591-78-6	2-Hexanone	1.09	0.200	--	4.47	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	0.764	0.200	--	5.18	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.774	0.200	--	3.36	0.869	--	
179601-23-1	p/m-Xylene	2.15	0.400	--	9.34	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.361	0.200	--	1.54	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.04	0.200	--	4.52	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-01
 Client ID : SSV08_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239094
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:02
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	0.338	0.200	--	1.66	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-02
 Client ID : AS01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R239091
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.341	0.200	--	1.69	0.989	--	
74-87-3	Chloromethane	0.409	0.200	--	0.845	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	246	5.00	--	464	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.06	1.00	--	4.89	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	1.91	0.500	--	4.69	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.356	0.200	--	1.74	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.354	0.200	--	1.13	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-02
 Client ID : AS01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R239091
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.245	0.200	--	0.923	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-03
 Client ID : AA01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R239093
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:22
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 19:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.451	0.200	--	2.23	0.989	--	
74-87-3	Chloromethane	0.446	0.200	--	0.921	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-03
 Client ID : AA01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R239093
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:22
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 19:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-04D
 Client ID : SV06_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239095
 Sample Amount : 25.0 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:33
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:34
 Dilution Factor : 10
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	2.00	--	ND	9.89	--	U
74-87-3	Chloromethane	ND	2.00	--	ND	4.13	--	U
76-14-2	Freon-114	ND	2.00	--	ND	14.0	--	U
75-01-4	Vinyl chloride	ND	2.00	--	ND	5.11	--	U
106-99-0	1,3-Butadiene	ND	2.00	--	ND	4.42	--	U
74-83-9	Bromomethane	ND	2.00	--	ND	7.77	--	U
75-00-3	Chloroethane	ND	2.00	--	ND	5.28	--	U
64-17-5	Ethanol	ND	50.0	--	ND	94.2	--	U
593-60-2	Vinyl bromide	ND	2.00	--	ND	8.74	--	U
67-64-1	Acetone	70.4	10.0	--	167	23.8	--	
75-69-4	Trichlorofluoromethane	ND	2.00	--	ND	11.2	--	U
67-63-0	Isopropanol	ND	5.00	--	ND	12.3	--	U
75-35-4	1,1-Dichloroethene	ND	2.00	--	ND	7.93	--	U
75-65-0	Tertiary butyl Alcohol	ND	5.00	--	ND	15.2	--	U
75-09-2	Methylene chloride	ND	5.00	--	ND	17.4	--	U
107-05-1	3-Chloropropene	ND	2.00	--	ND	6.26	--	U
75-15-0	Carbon disulfide	ND	2.00	--	ND	6.23	--	U
76-13-1	Freon-113	ND	2.00	--	ND	15.3	--	U
156-60-5	trans-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--	U
75-34-3	1,1-Dichloroethane	ND	2.00	--	ND	8.09	--	U
1634-04-4	Methyl tert butyl ether	ND	2.00	--	ND	7.21	--	U
78-93-3	2-Butanone	ND	5.00	--	ND	14.7	--	U
156-59-2	cis-1,2-Dichloroethene	ND	2.00	--	ND	7.93	--	U
141-78-6	Ethyl Acetate	ND	5.00	--	ND	18.0	--	U
67-66-3	Chloroform	ND	2.00	--	ND	9.77	--	U
109-99-9	Tetrahydrofuran	ND	5.00	--	ND	14.7	--	U
107-06-2	1,2-Dichloroethane	ND	2.00	--	ND	8.09	--	U
110-54-3	n-Hexane	14.9	2.00	--	52.5	7.05	--	



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-04D
 Client ID : SV06_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239095
 Sample Amount : 25.0 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:33
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:34
 Dilution Factor : 10
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	2.00	--	ND	10.9	--	U
71-43-2	Benzene	ND	2.00	--	ND	6.39	--	U
56-23-5	Carbon tetrachloride	ND	2.00	--	ND	12.6	--	U
110-82-7	Cyclohexane	ND	2.00	--	ND	6.88	--	U
78-87-5	1,2-Dichloropropane	ND	2.00	--	ND	9.24	--	U
75-27-4	Bromodichloromethane	ND	2.00	--	ND	13.4	--	U
123-91-1	1,4-Dioxane	ND	2.00	--	ND	7.21	--	U
79-01-6	Trichloroethene	ND	2.00	--	ND	10.7	--	U
540-84-1	2,2,4-Trimethylpentane	ND	2.00	--	ND	9.34	--	U
142-82-5	Heptane	8.10	2.00	--	33.2	8.20	--	
10061-01-5	cis-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--	U
108-10-1	4-Methyl-2-pentanone	6.41	5.00	--	26.3	20.5	--	
10061-02-6	trans-1,3-Dichloropropene	ND	2.00	--	ND	9.08	--	U
79-00-5	1,1,2-Trichloroethane	ND	2.00	--	ND	10.9	--	U
108-88-3	Toluene	662	2.00	--	2490	7.54	--	
591-78-6	2-Hexanone	ND	2.00	--	ND	8.20	--	U
124-48-1	Dibromochloromethane	ND	2.00	--	ND	17.0	--	U
106-93-4	1,2-Dibromoethane	ND	2.00	--	ND	15.4	--	U
127-18-4	Tetrachloroethene	ND	2.00	--	ND	13.6	--	U
108-90-7	Chlorobenzene	ND	2.00	--	ND	9.21	--	U
100-41-4	Ethylbenzene	3.74	2.00	--	16.2	8.69	--	
179601-23-1	p/m-Xylene	9.22	4.00	--	40.0	17.4	--	
75-25-2	Bromoform	ND	2.00	--	ND	20.7	--	U
100-42-5	Styrene	ND	2.00	--	ND	8.52	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.00	--	ND	13.7	--	U
95-47-6	o-Xylene	3.64	2.00	--	15.8	8.69	--	
622-96-8	4-Ethyltoluene	ND	2.00	--	ND	9.83	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.00	--	ND	9.83	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-04D
 Client ID : SV06_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239095
 Sample Amount : 25.0 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:33
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:34
 Dilution Factor : 10
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	2.00	--	ND	9.83	--	U
100-44-7	Benzyl chloride	ND	2.00	--	ND	10.4	--	U
541-73-1	1,3-Dichlorobenzene	ND	2.00	--	ND	12.0	--	U
106-46-7	1,4-Dichlorobenzene	ND	2.00	--	ND	12.0	--	U
95-50-1	1,2-Dichlorobenzene	ND	2.00	--	ND	12.0	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.00	--	ND	14.8	--	U
87-68-3	Hexachlorobutadiene	ND	2.00	--	ND	21.3	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-05
 Client ID : SSV07_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239096
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:24
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:09
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.467	0.200	--	2.31	0.989	--	
74-87-3	Chloromethane	0.211	0.200	--	0.436	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	16.9	5.00	--	31.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	1.31	0.500	--	3.22	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	0.946	0.200	--	3.41	0.721	--	
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	1.43	0.500	--	5.15	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	7.66	0.200	--	27.0	0.705	--	



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-05
 Client ID : SSV07_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239096
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:24
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:09
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.62	0.200	--	8.84	1.09	--	
71-43-2	Benzene	0.220	0.200	--	0.703	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	1.00	0.200	--	4.10	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.356	0.200	--	1.34	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-05
 Client ID : SSV07_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239096
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:24
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:09
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-06
 Client ID : DUP01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239097
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 00:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:44
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.442	0.200	--	2.19	0.989	--	
74-87-3	Chloromethane	0.216	0.200	--	0.446	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	13.8	5.00	--	26.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	0.567	0.500	--	1.39	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	0.841	0.200	--	3.03	0.721	--	
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	6.30	0.200	--	22.2	0.705	--	



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-06
 Client ID : DUP01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239097
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 00:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:44
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.28	0.200	--	6.98	1.09	--	
71-43-2	Benzene	0.218	0.200	--	0.696	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.647	0.200	--	2.65	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.261	0.200	--	0.984	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-06
 Client ID : DUP01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239097
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 00:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 21:44
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-07
 Client ID : SV04_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239098
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:58
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.474	0.200	--	2.34	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.945	0.200	--	2.09	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	39.1	1.00	--	92.9	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	2.26	0.200	--	7.04	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.78	0.500	--	5.25	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	2.05	0.500	--	7.39	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	3.13	0.200	--	11.0	0.705	--	



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-07
 Client ID : SV04_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239098
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:58
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.379	0.200	--	1.21	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	1.61	0.200	--	5.54	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.989	0.200	--	4.05	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.458	0.200	--	1.73	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-07
 Client ID : SV04_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239098
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 11:58
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-08D2
 Client ID : SSV05_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239108
 Sample Amount : 25.0 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 12:35
 Date Received : 02/16/16
 Date Analyzed : 02/20/16 08:33
 Dilution Factor : 10
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-64-1	Acetone	24.9	10.0	--	59.1	23.8	--	
67-63-0	Isopropanol	ND	5.00	--	ND	12.3	--	U
141-78-6	Ethyl Acetate	372	5.00	--	1340	18.0	--	

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-08D
 Client ID : SSV05_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239099
 Sample Amount : 125 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 12:35
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:50
 Dilution Factor : 2
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.418	0.400	--	2.07	1.98	--	
74-87-3	Chloromethane	ND	0.400	--	ND	0.826	--	U
76-14-2	Freon-114	ND	0.400	--	ND	2.80	--	U
75-01-4	Vinyl chloride	ND	0.400	--	ND	1.02	--	U
106-99-0	1,3-Butadiene	ND	0.400	--	ND	0.885	--	U
74-83-9	Bromomethane	ND	0.400	--	ND	1.55	--	U
75-00-3	Chloroethane	ND	0.400	--	ND	1.06	--	U
64-17-5	Ethanol	13.7	10.0	--	25.8	18.8	--	
593-60-2	Vinyl bromide	ND	0.400	--	ND	1.75	--	U
67-64-1	Acetone	21.4	2.00	--	50.8	4.75	--	
75-69-4	Trichlorofluoromethane	0.534	0.400	--	3.00	2.25	--	
67-63-0	Isopropanol	1.98	1.00	--	4.87	2.46	--	
75-35-4	1,1-Dichloroethene	ND	0.400	--	ND	1.59	--	U
75-65-0	Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--	U
75-09-2	Methylene chloride	ND	1.00	--	ND	3.47	--	U
107-05-1	3-Chloropropene	ND	0.400	--	ND	1.25	--	U
75-15-0	Carbon disulfide	ND	0.400	--	ND	1.25	--	U
76-13-1	Freon-113	ND	0.400	--	ND	3.07	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--	U
75-34-3	1,1-Dichloroethane	ND	0.400	--	ND	1.62	--	U
1634-04-4	Methyl tert butyl ether	ND	0.400	--	ND	1.44	--	U
78-93-3	2-Butanone	1.12	1.00	--	3.30	2.95	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--	U
141-78-6	Ethyl Acetate	330	1.00	--	1190	3.60	--	E
67-66-3	Chloroform	8.67	0.400	--	42.3	1.95	--	
109-99-9	Tetrahydrofuran	ND	1.00	--	ND	2.95	--	U
107-06-2	1,2-Dichloroethane	ND	0.400	--	ND	1.62	--	U
110-54-3	n-Hexane	ND	0.400	--	ND	1.41	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-08D
 Client ID : SSV05_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239099
 Sample Amount : 125 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 12:35
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:50
 Dilution Factor : 2
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--	U
71-43-2	Benzene	5.09	0.400	--	16.3	1.28	--	
56-23-5	Carbon tetrachloride	ND	0.400	--	ND	2.52	--	U
110-82-7	Cyclohexane	ND	0.400	--	ND	1.38	--	U
78-87-5	1,2-Dichloropropane	ND	0.400	--	ND	1.85	--	U
75-27-4	Bromodichloromethane	ND	0.400	--	ND	2.68	--	U
123-91-1	1,4-Dioxane	ND	0.400	--	ND	1.44	--	U
79-01-6	Trichloroethene	ND	0.400	--	ND	2.15	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--	U
142-82-5	Heptane	0.410	0.400	--	1.68	1.64	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--	U
108-88-3	Toluene	25.0	0.400	--	94.2	1.51	--	
591-78-6	2-Hexanone	ND	0.400	--	ND	1.64	--	U
124-48-1	Dibromochloromethane	ND	0.400	--	ND	3.41	--	U
106-93-4	1,2-Dibromoethane	ND	0.400	--	ND	3.07	--	U
127-18-4	Tetrachloroethene	ND	0.400	--	ND	2.71	--	U
108-90-7	Chlorobenzene	ND	0.400	--	ND	1.84	--	U
100-41-4	Ethylbenzene	ND	0.400	--	ND	1.74	--	U
179601-23-1	p/m-Xylene	ND	0.800	--	ND	3.47	--	U
75-25-2	Bromoform	ND	0.400	--	ND	4.14	--	U
100-42-5	Styrene	ND	0.400	--	ND	1.70	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--	U
95-47-6	o-Xylene	ND	0.400	--	ND	1.74	--	U
622-96-8	4-Ethyltoluene	ND	0.400	--	ND	1.97	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-08D
 Client ID : SSV05_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239099
 Sample Amount : 125 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 12:35
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 22:50
 Dilution Factor : 2
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.400	--	ND	1.97	--	U
100-44-7	Benzyl chloride	ND	0.400	--	ND	2.07	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--	U
87-68-3	Hexachlorobutadiene	ND	0.400	--	ND	4.27	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866471-4
 Client ID : WG866471-4BLANK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239089
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/19/16 16:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866471-4
 Client ID : WG866471-4BLANK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239089
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/19/16 16:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866471-4
 Client ID : WG866471-4BLANK
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239089
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/19/16 16:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866471-5
 Client ID : AS01_021416DUP
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239092
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.433	0.200	--	2.14	0.989	--	
74-87-3	Chloromethane	0.470	0.200	--	0.971	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	260.	5.00	--	490.	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.12	1.00	--	5.04	2.38	--	
75-69-4	Trichlorofluoromethane	0.210	0.200	--	1.18	1.12	--	
67-63-0	Isopropanol	1.99	0.500	--	4.89	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.363	0.200	--	1.77	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.371	0.200	--	1.19	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U



Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866471-5
 Client ID : AS01_021416DUP
 Sample Location :
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R239092
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.255	0.200	--	0.961	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.220	0.200	--	1.08	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239091.D
 Acq On : 19 Feb 2016 6:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-02,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:19:36 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	144403	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		98.09%	
43) 1,4-difluorobenzene	12.54	114	346049	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		93.83%	
67) chlorobenzene-D5	16.89	54	74940	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		93.28%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	6230	0.341	ppbV	100
6) chloromethane	4.65	50	4127	0.409	ppbV	97
7) Freon-114	4.79		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.		
13) bromomethane	5.54		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.02	31	2148237	246.435	ppbV	94
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.66	43	34826	2.059	ppbV #	94
21) trichlorofluoromethane	6.84	101	4482	0.196	ppbV	92
22) isopropyl alcohol	7.03	45	36942M4	1.911	ppbV	
27) tertiary butyl alcohol	0.00		0	N.D.	d	
28) methylene chloride	7.83	49	3060	0.219	ppbV	100
29) 3-chloropropene	0.00		0	N.D.		
30) carbon disulfide	8.16		0	N.D.		
31) Freon 113	8.16	101	1268	0.066	ppbV #	86
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	9.74	43	3196	0.120	ppbV #	87
38) Ethyl Acetate	10.49	61	571	0.178	ppbV	74
39) chloroform	10.53	83	7280	0.356	ppbV	91
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.43	57	1841	0.095	ppbV #	72
50) benzene	12.15	78	11947	0.354	ppbV	98
53) cyclohexane	12.45	56	1441	0.069	ppbV #	79
56) 1,2-dichloropropane	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239091.D
 Acq On : 19 Feb 2016 6:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-02,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:19:36 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	13.30		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	13.36		0		N.D.	
62) heptane	13.65		0		N.D.	
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	14.42		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	15.33	91	12297	0.245	ppbV	92
72) 2-hexanone	0.00		0		N.D.	d
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
80) chlorobenzene	16.93		0		N.D.	
81) ethylbenzene	17.22	91	6971	0.155	ppbV #	87
83) m+p-xylene	17.35	91	5852	0.168	ppbV	98
84) bromoform	0.00		0		N.D.	
85) styrene	17.64		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	d
87) o-xylene	17.72	91	2789	0.078	ppbV	90
96) 4-ethyl toluene	18.64	105	3403	0.064	ppbV #	94
97) 1,3,5-trimethylbenzene	18.69	105	3604	0.081	ppbV #	92
99) 1,2,4-trimethylbenzene	19.00	105	8320	0.199	ppbV #	54
101) Benzyl Chloride	0.00		0		N.D.	d
102) 1,3-dichlorobenzene	0.00		0		N.D.	
103) 1,4-dichlorobenzene	0.00		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	20.87		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

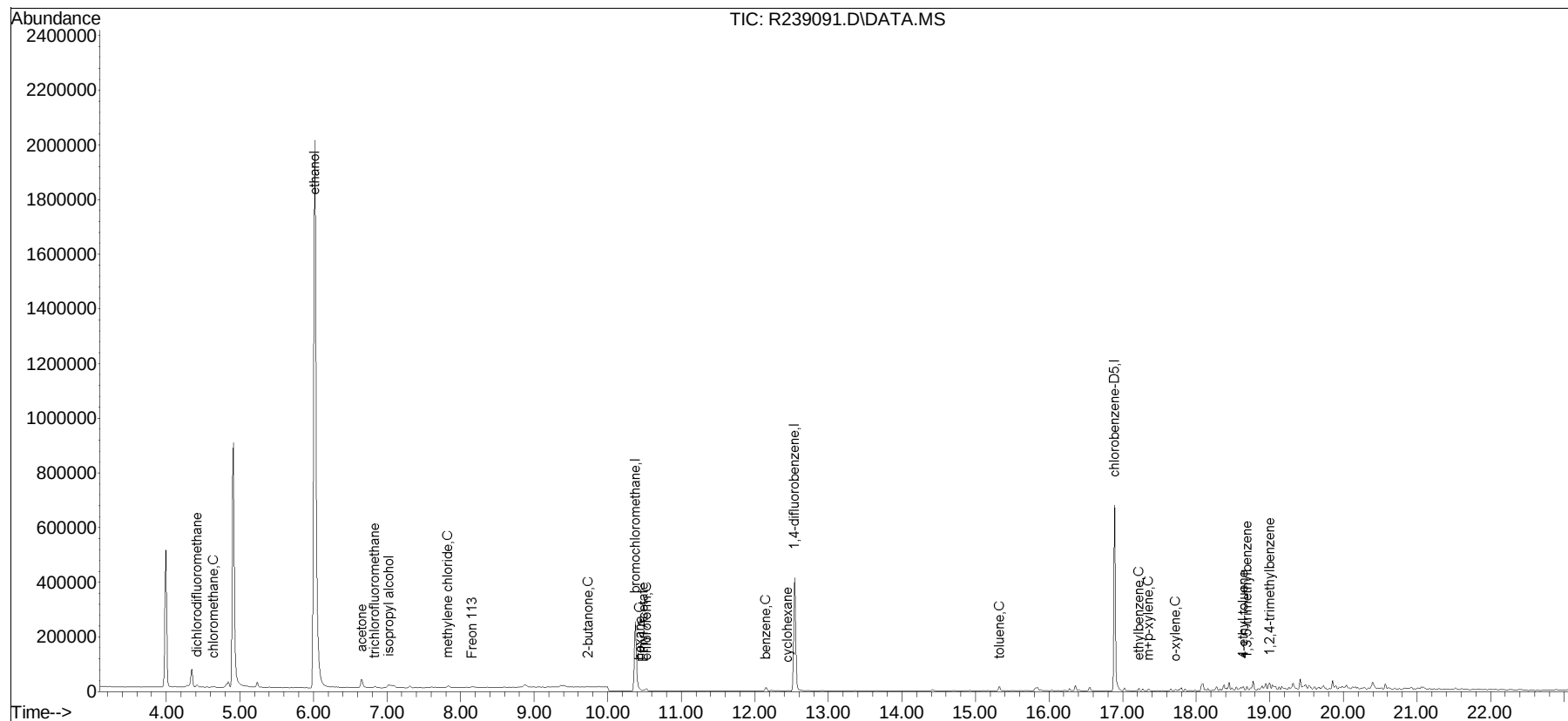
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239091.D
 Acq On : 19 Feb 2016 6:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-02,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

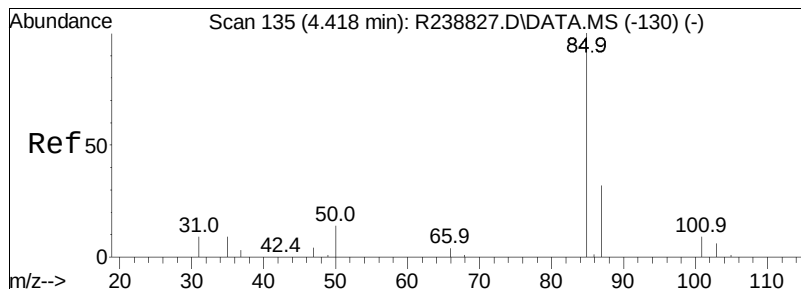
Quant Time: Feb 20 10:19:36 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY-7-SIM - .\AIR2\2016\160219T\R239086.D



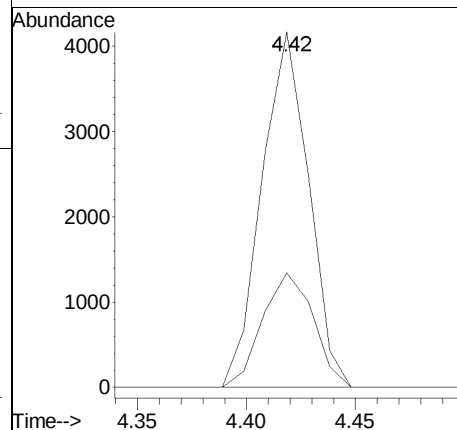
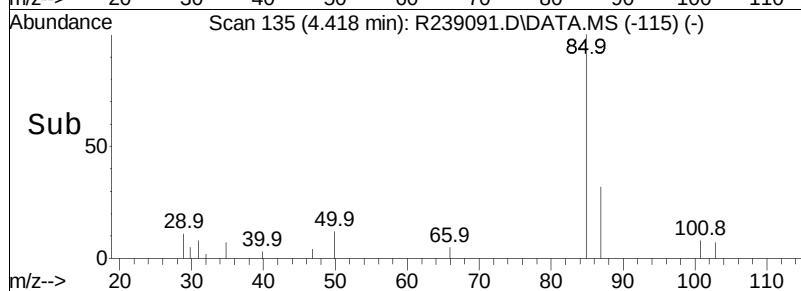
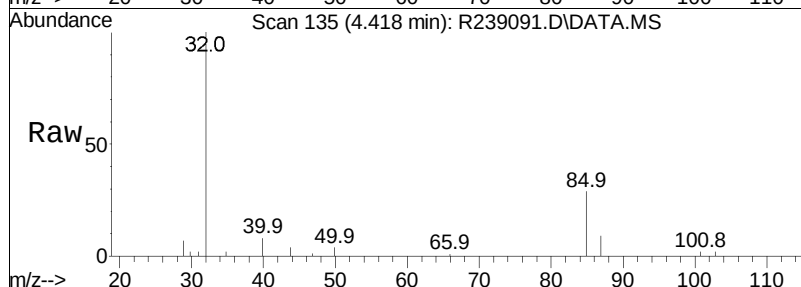
TALL160207.M Sat Feb 20 10:19:45 2016

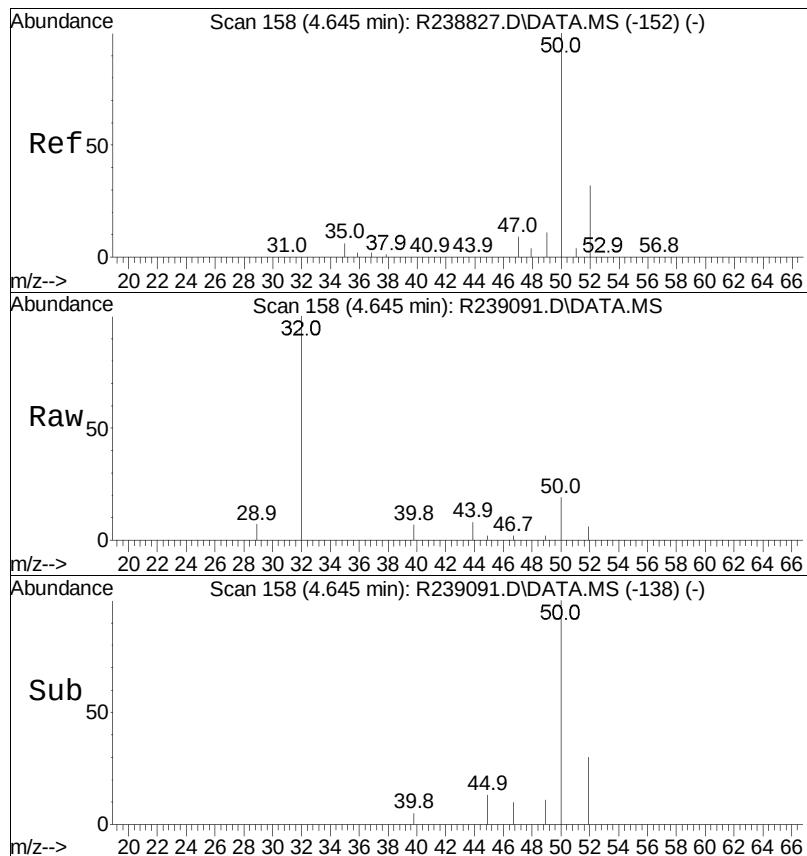
Page 3



#5
dichlorodifluoromethane
Concen: 0.34 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

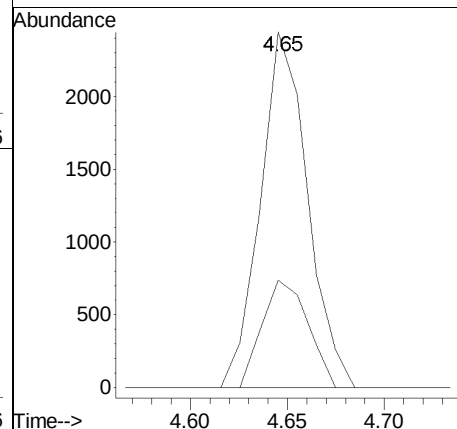
Tgt Ion: 85 Resp: 6230
Ion Ratio Lower Upper
85 100
87 32.2 25.8 38.8

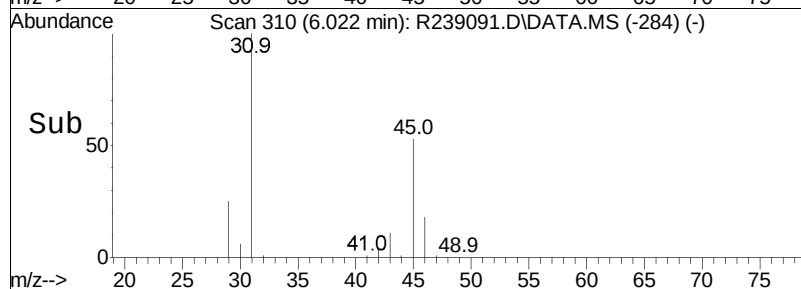
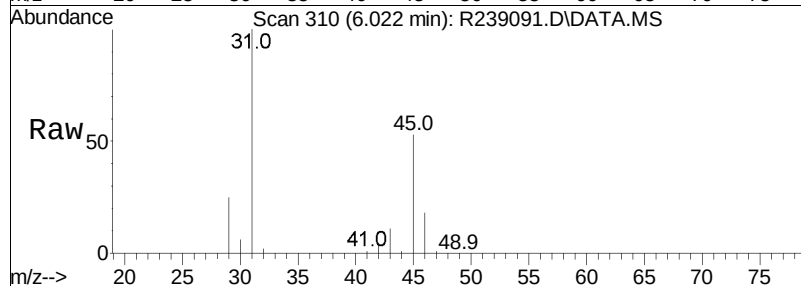
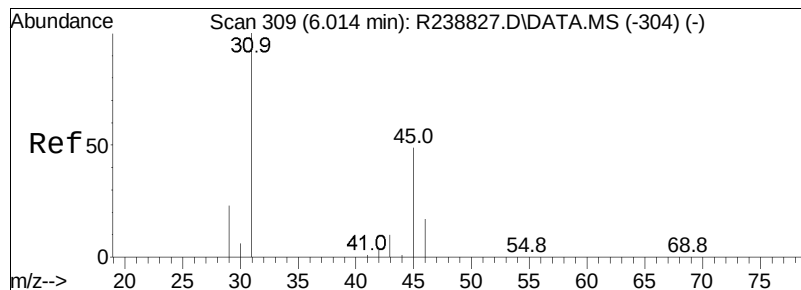




#6
 chloromethane
 Concen: 0.41 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

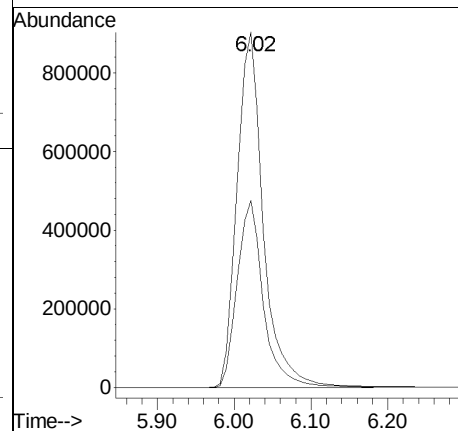
Tgt	Ion	Resp	Lower	Upper
50	100	4127		
52	30.2	25.5	38.3	

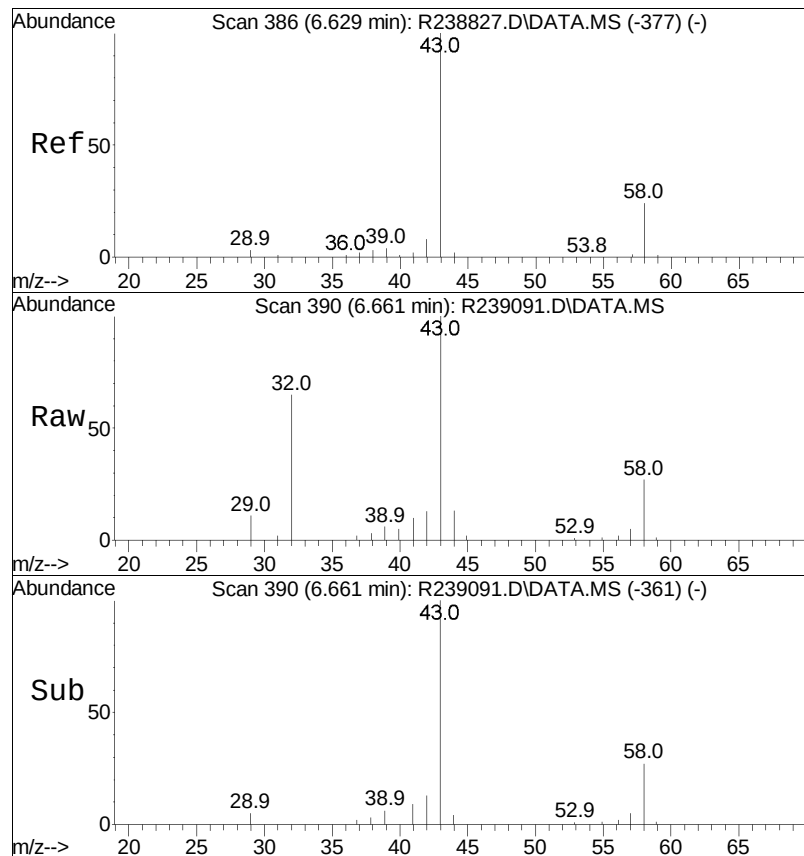




#15
ethanol
Concen: 246.44 ppbV
RT: 6.02 min Scan# 310
Delta R.T. 0.008 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

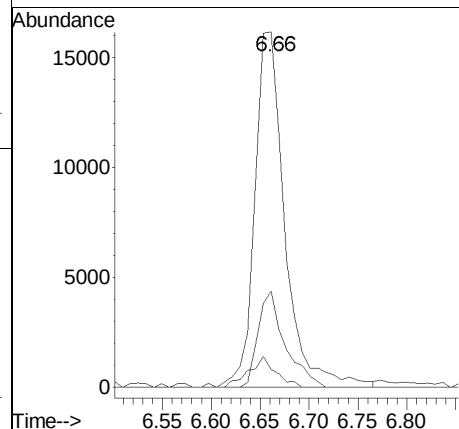
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	52.6	38.7	58.1	

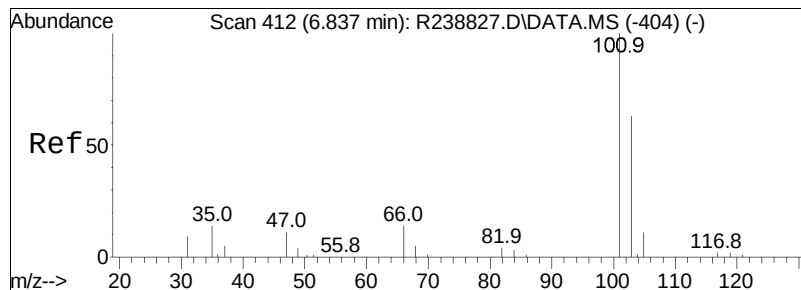




#19
 acetone
 Concen: 2.06 ppbV
 RT: 6.66 min Scan# 390
 Delta R.T. 0.032 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

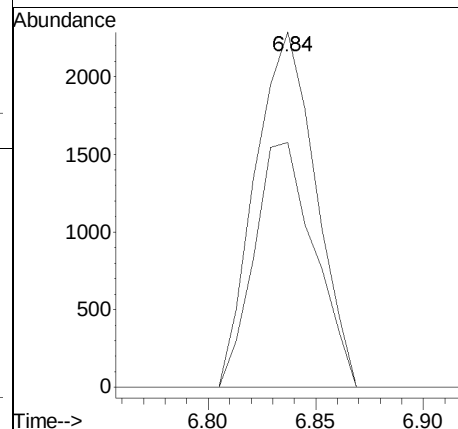
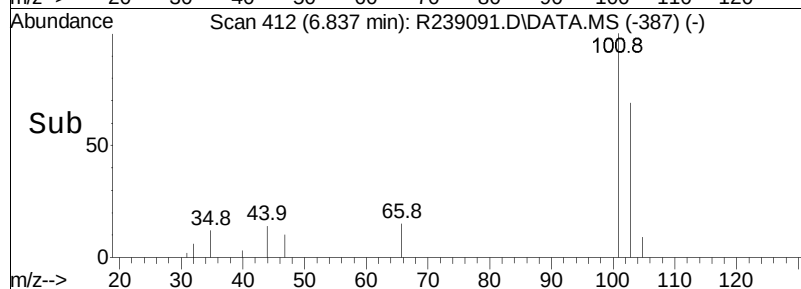
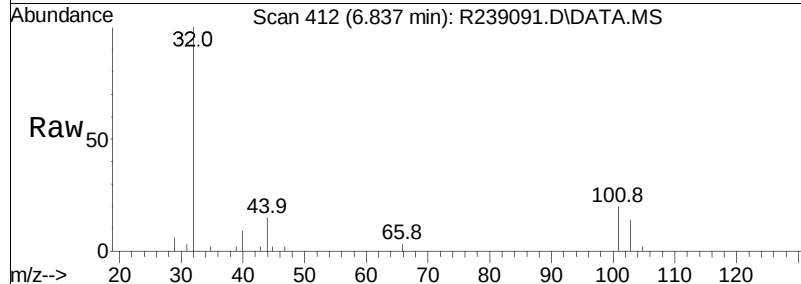
Tgt Ion:	43	Resp:	34826
Ion Ratio	Lower	Upper	
43	100		
58	27.1	19.2	28.8
57	5.1	0.6	1.0#

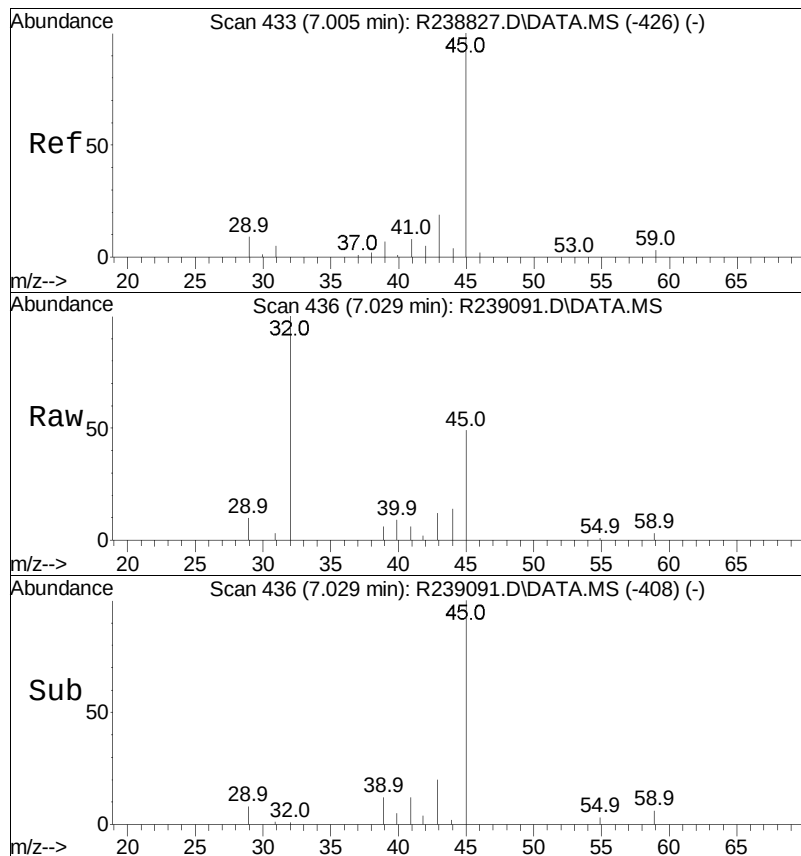




#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

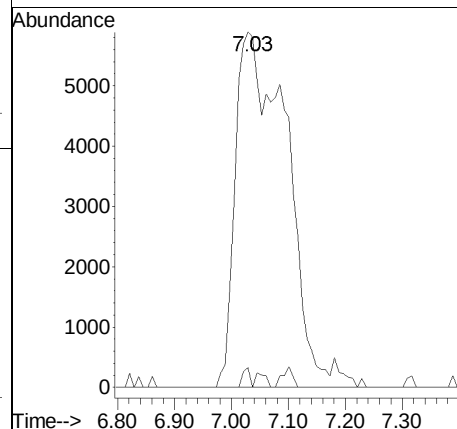
Tgt Ion	Ratio	Lower	Upper
101	100		
103	68.9	50.5	75.7

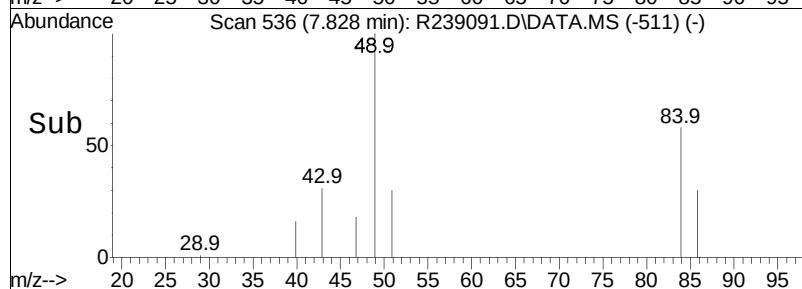
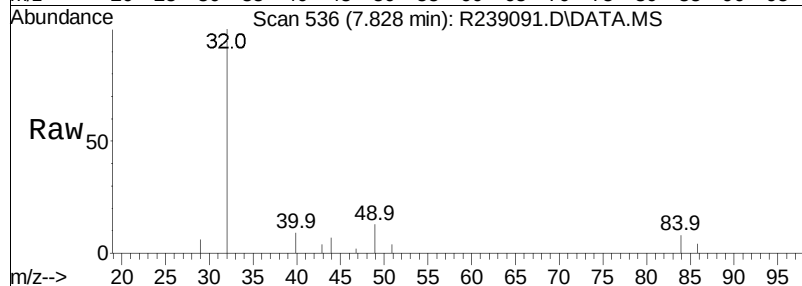
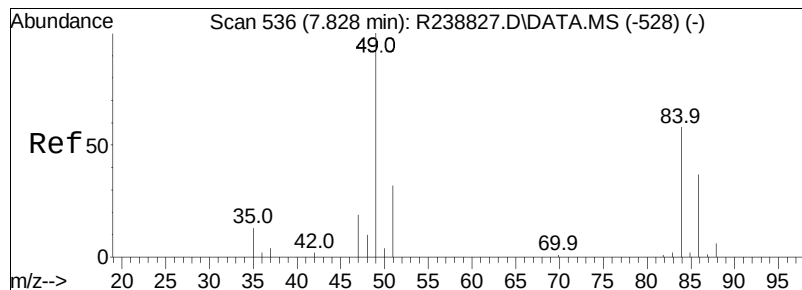




#22
 isopropyl alcohol
 Concen: 1.91 ppbV m
 RT: 7.03 min Scan# 436
 Delta R.T. 0.024 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

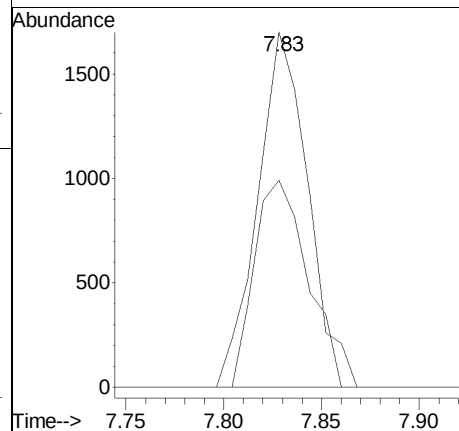
Tgt Ion	Ratio	Lower	Upper
45	100		
59	5.6	2.6	4.0#

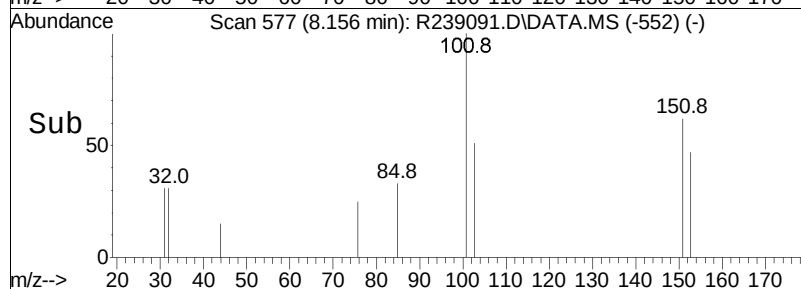
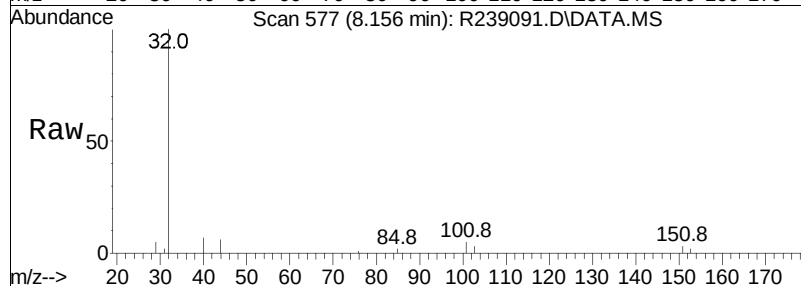
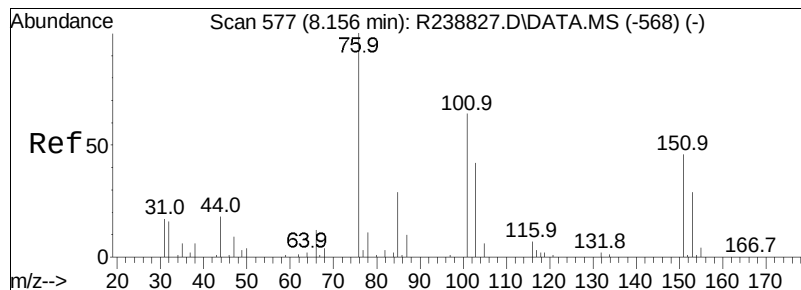




#28
methylene chloride
Concen: 0.22 ppbV
RT: 7.83 min Scan# 536
Delta R.T. 0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

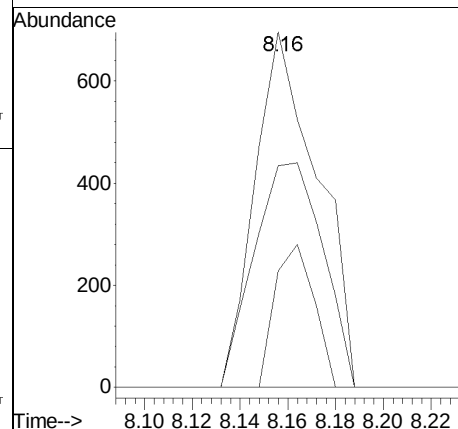
Tgt	Ion	Ratio	Lower	Upper
49	100			
84	58.3	46.5	69.7	

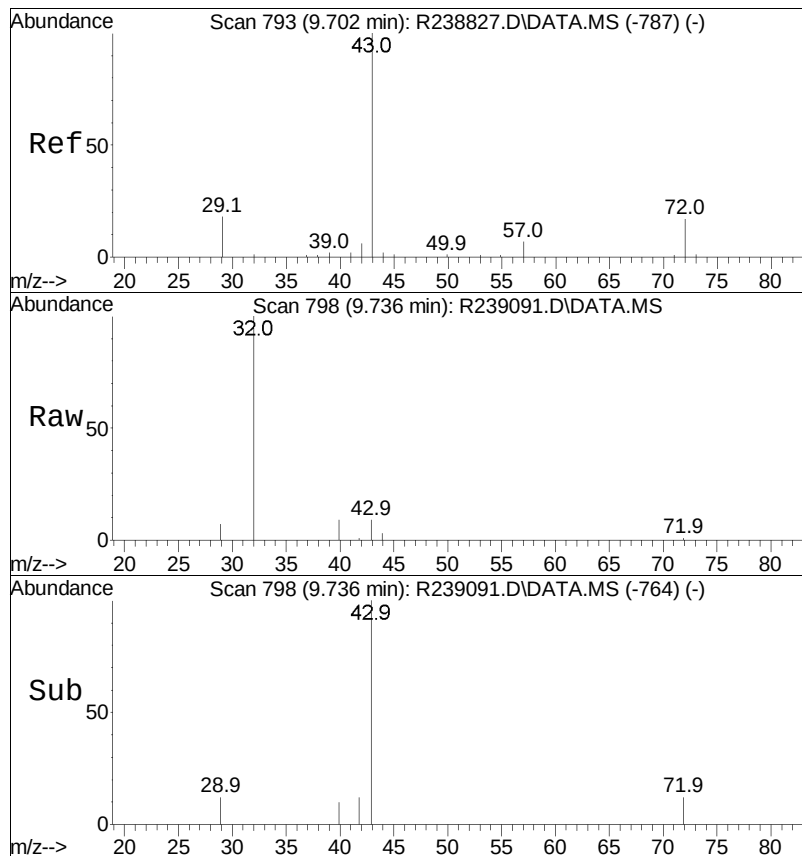




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 8.16 min Scan# 577
 Delta R.T. 0.000 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

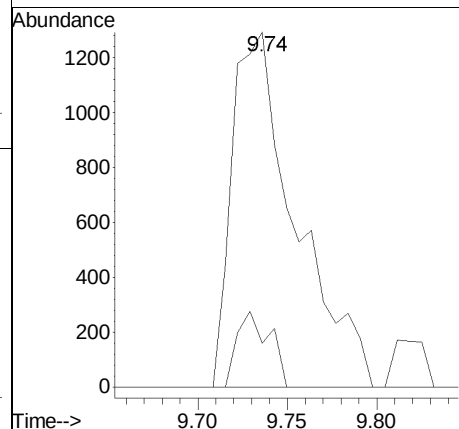
Tgt Ion	Ratio	Lower	Upper
101	100		
85	32.8	35.8	53.6#
151	62.4	57.4	86.2

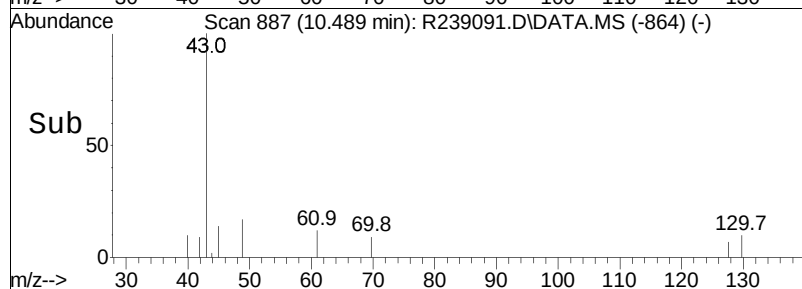
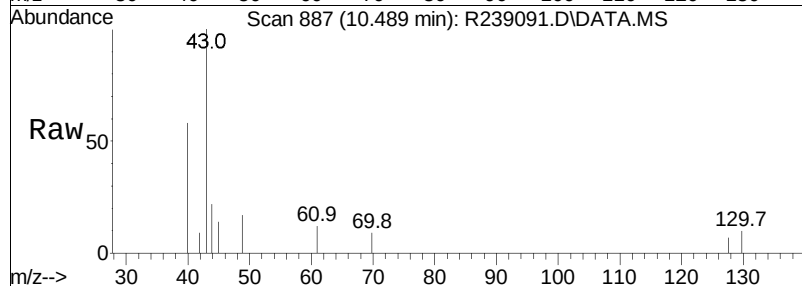
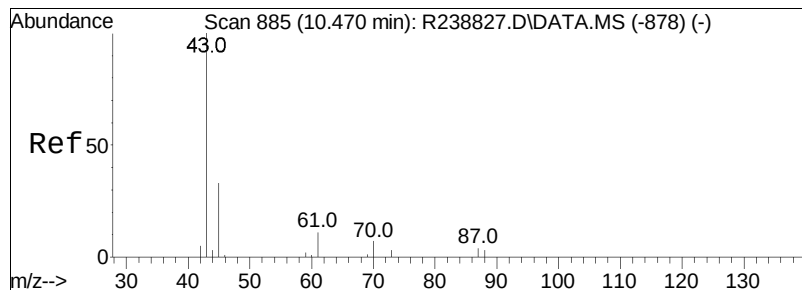




#36
 2-butanone
 Concen: 0.12 ppbV
 RT: 9.74 min Scan# 798
 Delta R.T. 0.034 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

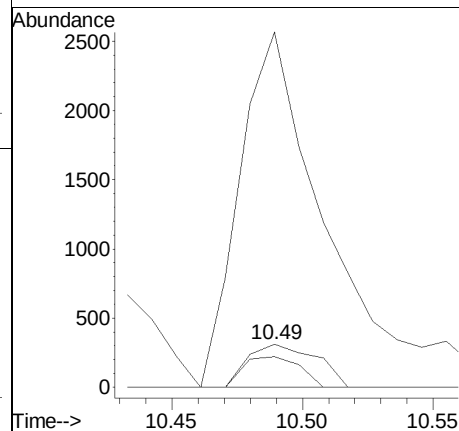
Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.4	13.5	20.3#
57	0.0	5.5	8.3#

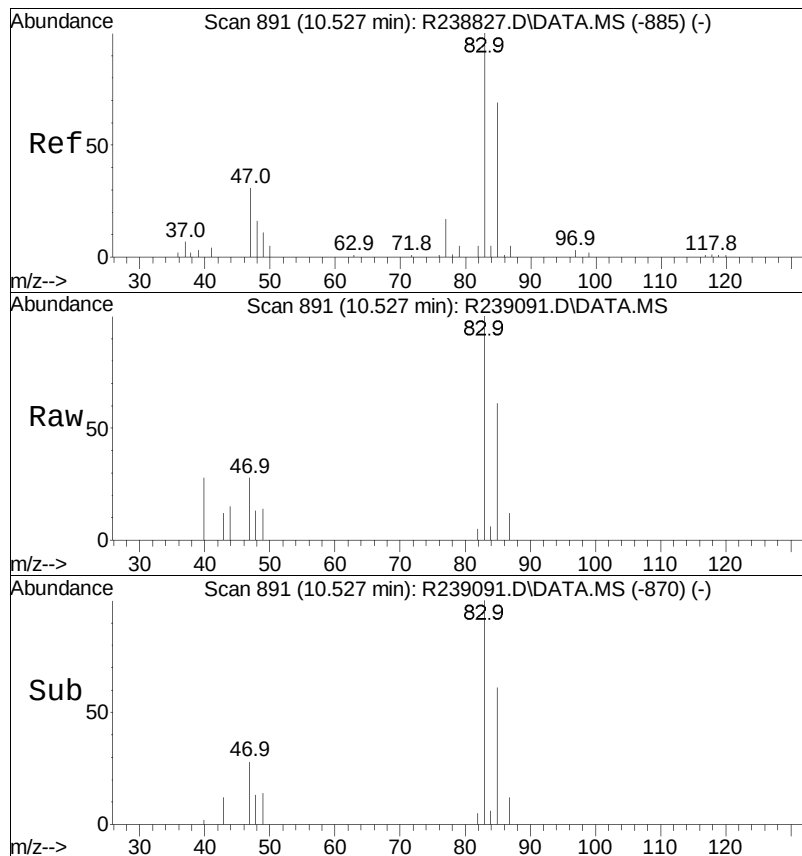




#38
Ethyl Acetate
Concen: 0.18 ppbV
RT: 10.49 min Scan# 887
Delta R.T. 0.019 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

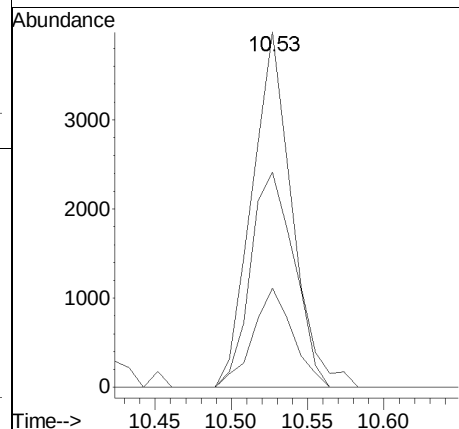
Tgt Ion	Ratio	Lower	Upper
61	100		
70	71.2	54.6	81.8
43	822.8	753.4	1130.0

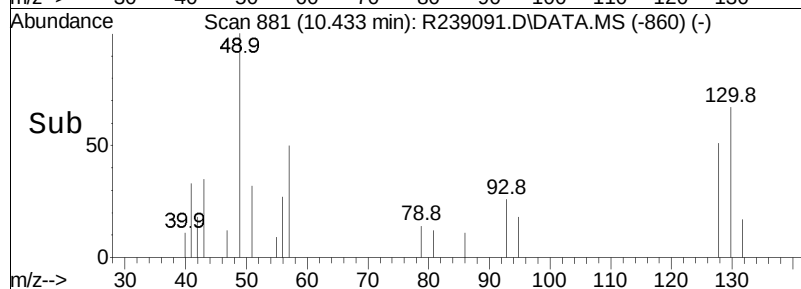
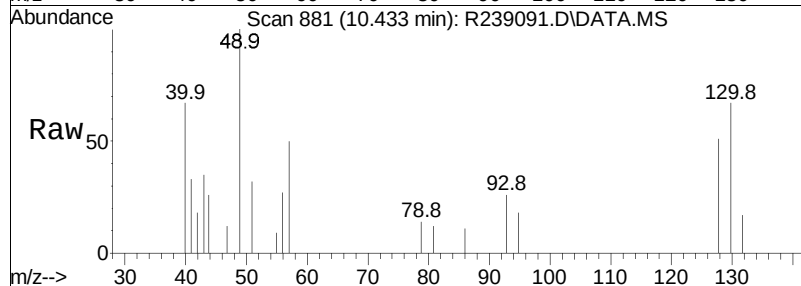
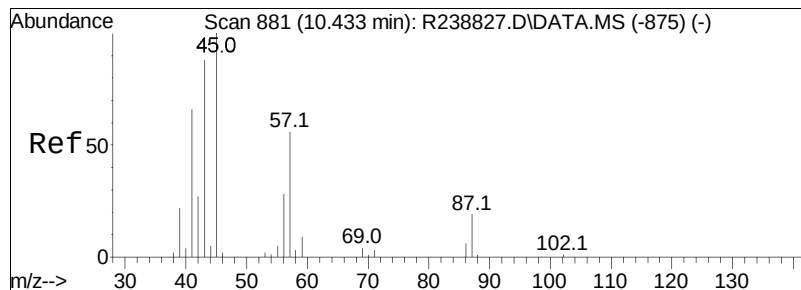




#39
 chloroform
 Concen: 0.36 ppbV
 RT: 10.53 min Scan# 891
 Delta R.T. 0.000 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

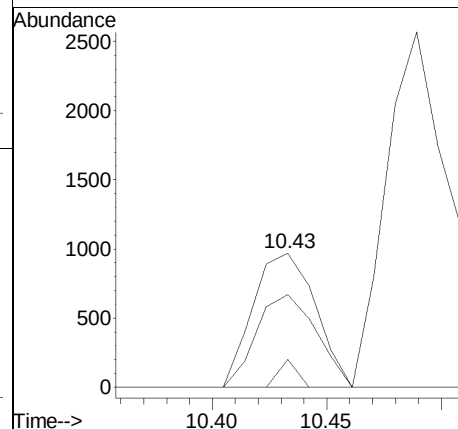
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		7280		
85	60.5	55.1		82.7	
47	27.9	24.9		37.3	

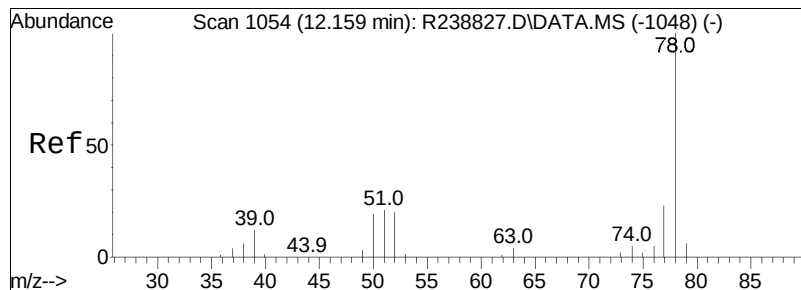




#44
hexane
Concen: 0.09 ppbV
RT: 10.43 min Scan# 881
Delta R.T. 0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

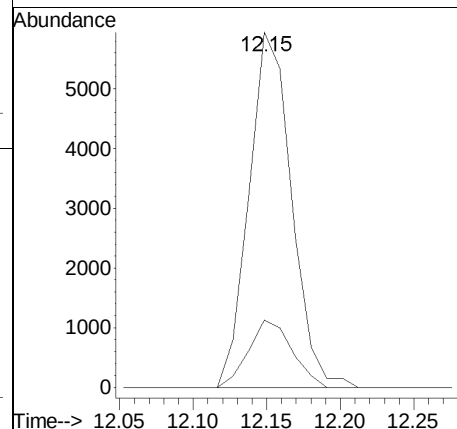
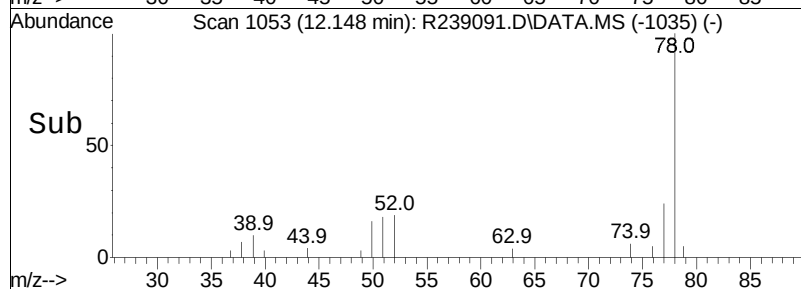
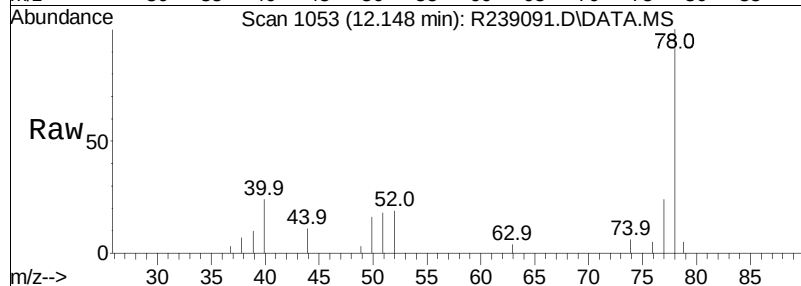
Tgt Ion	Ratio	Lower	Upper
57	100		
43	120.4	125.3	187.9#
86	20.8	9.0	13.6#

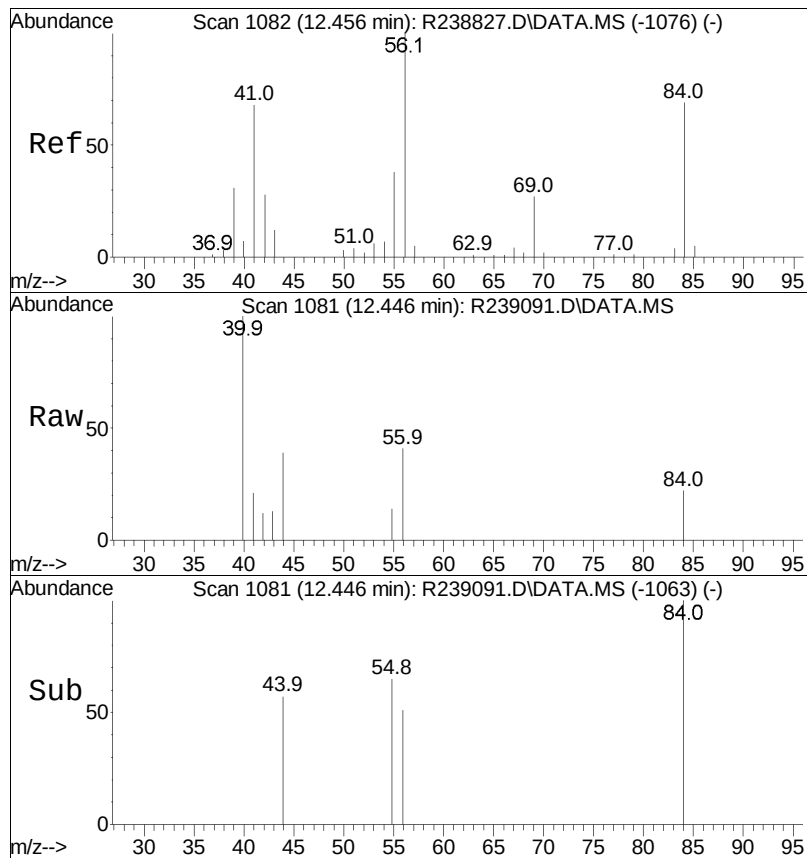




#50
benzene
Concen: 0.35 ppbV
RT: 12.15 min Scan# 1053
Delta R.T. -0.011 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

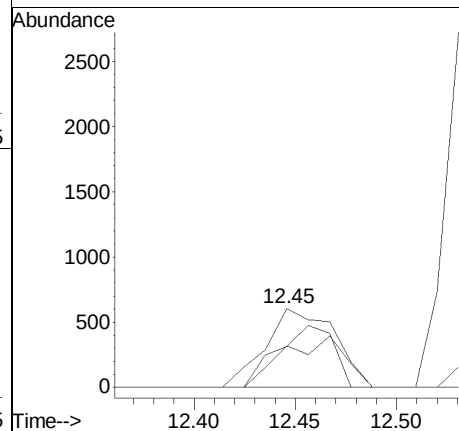
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.0	15.9	23.9

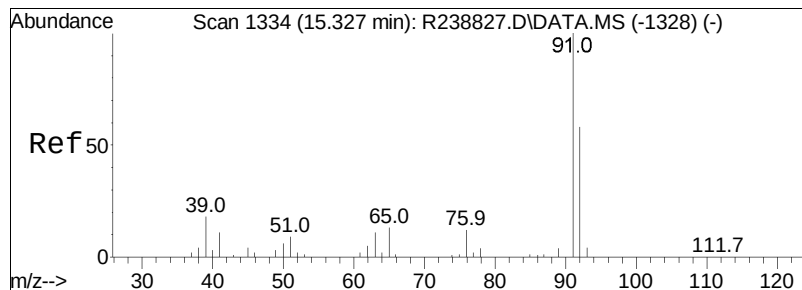




#53
cyclohexane
Concen: 0.07 ppbV
RT: 12.45 min Scan# 1081
Delta R.T. -0.011 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

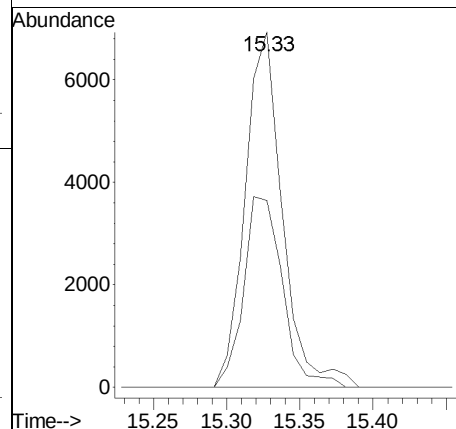
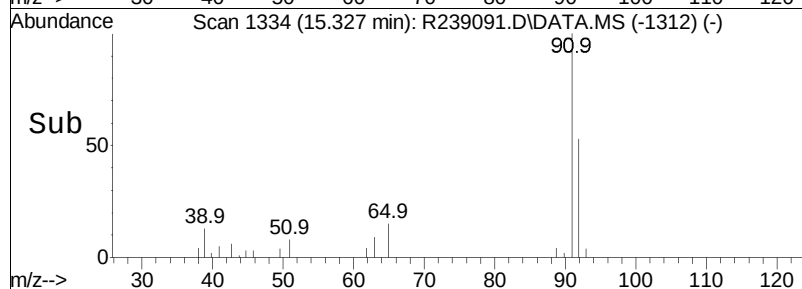
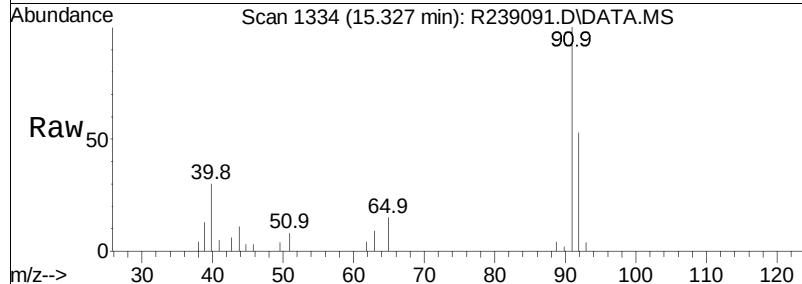
Tgt Ion	Ratio	Lower	Upper
56	100		
84	52.8	56.2	84.4#
41	51.8	54.6	82.0#

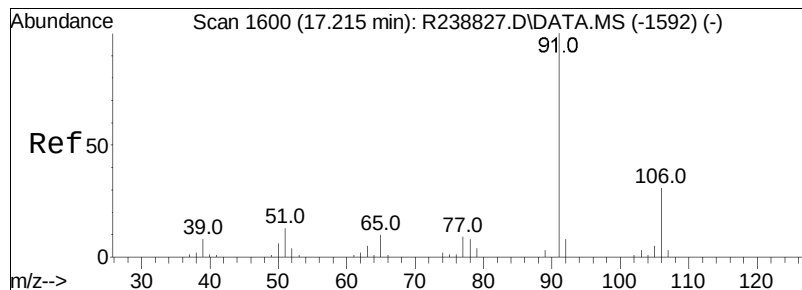




#68
toluene
Concen: 0.25 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

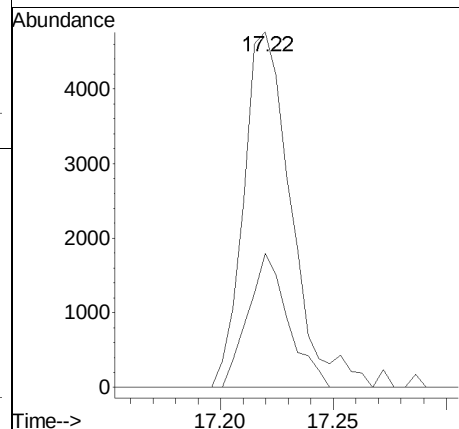
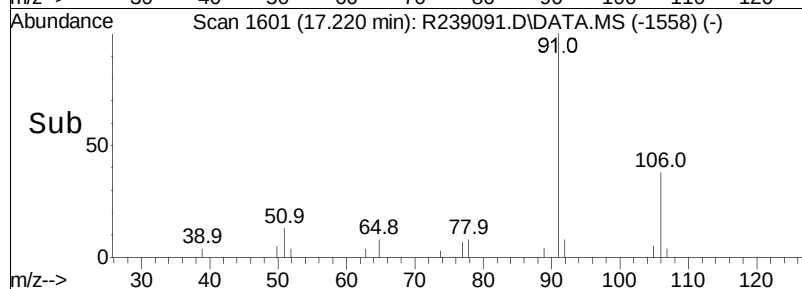
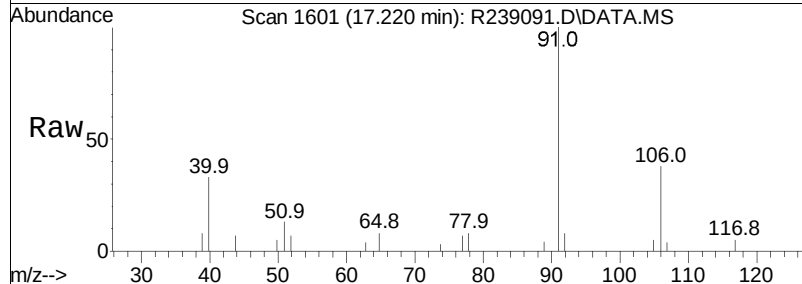
Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.6	46.7	70.1

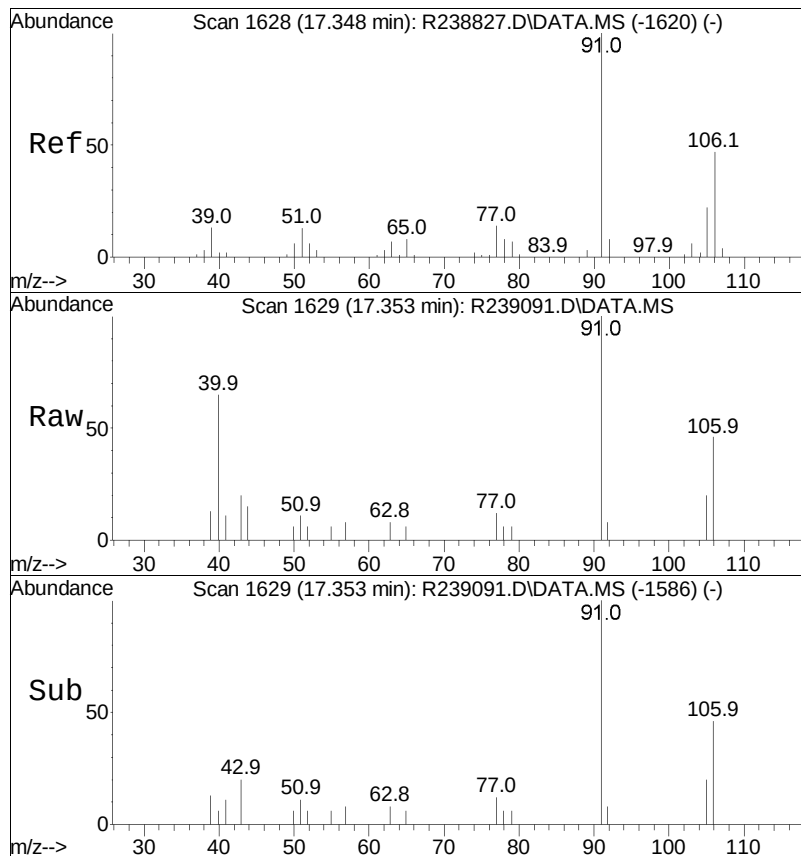




#81
ethylbenzene
Concen: 0.15 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

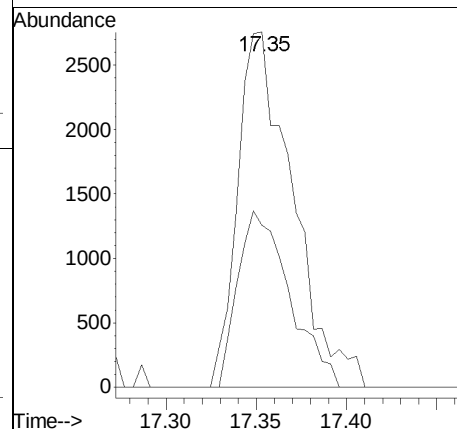
Tgt Ion	Ratio	Lower	Upper
91	100		
106	37.7	24.5	36.7#

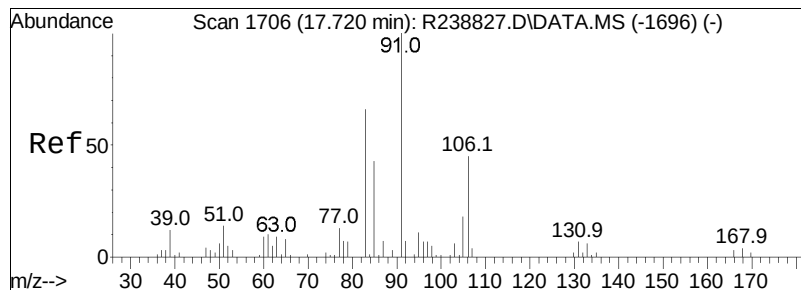




#83
 m+p-xylene
 Concen: 0.17 ppbV
 RT: 17.35 min Scan# 1629
 Delta R.T. 0.005 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.6	37.7	56.5





#87

o-xylene

Concen: 0.08 ppbV

RT: 17.72 min Scan# 1706

Delta R.T. 0.000 min

Lab File: R239091.D

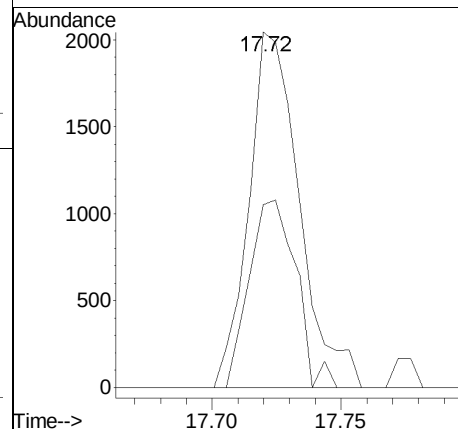
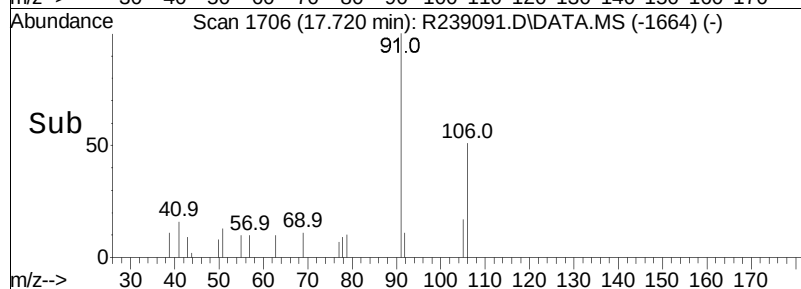
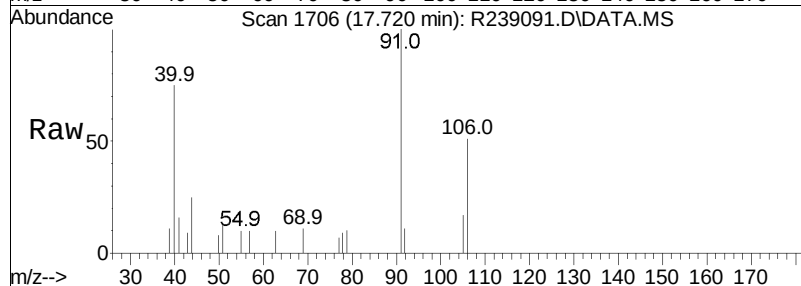
Acq: 19 Feb 2016 6:18 pm

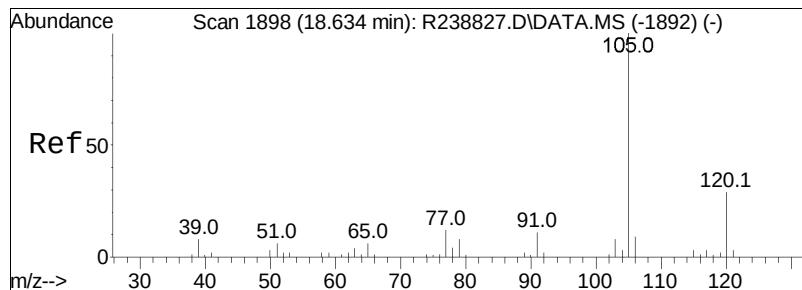
Tgt Ion: 91 Resp: 2789

Ion Ratio Lower Upper

91 100

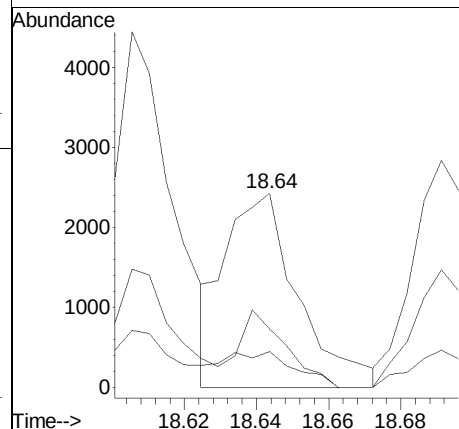
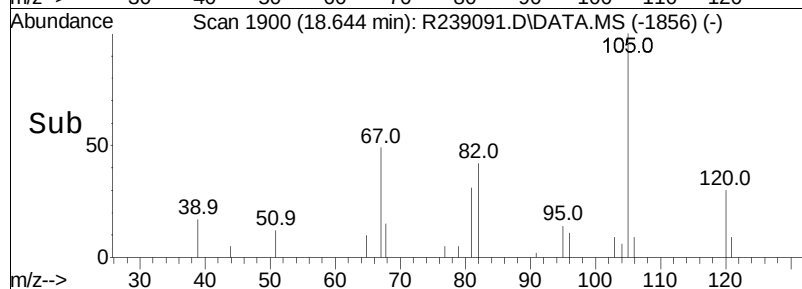
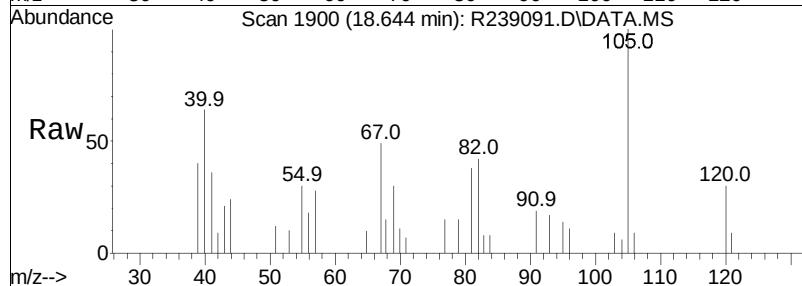
106 51.4 35.8 53.6

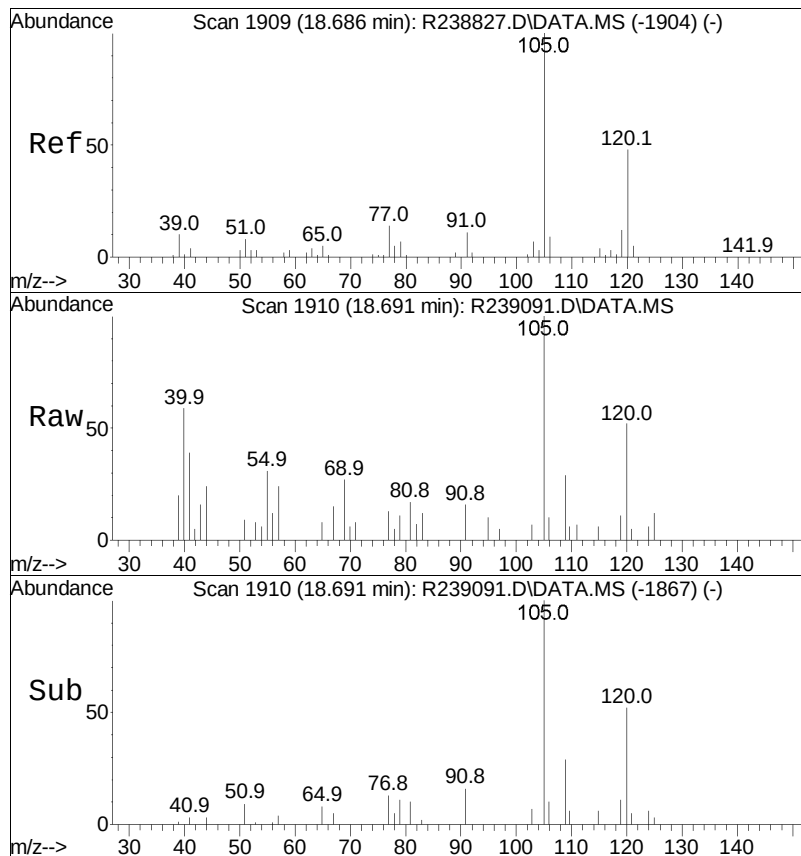




#96
 4-ethyl toluene
 Concen: 0.06 ppbV
 RT: 18.64 min Scan# 1900
 Delta R.T. 0.010 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

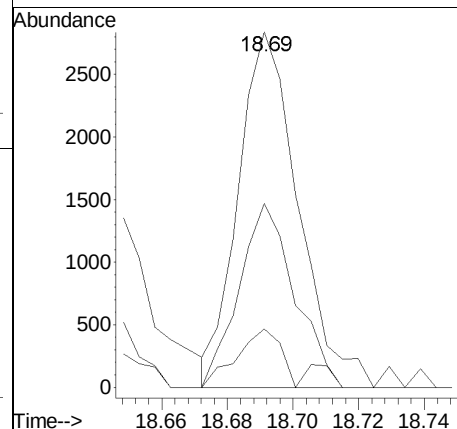
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.1	23.4	35.0
91	18.5	9.5	14.3

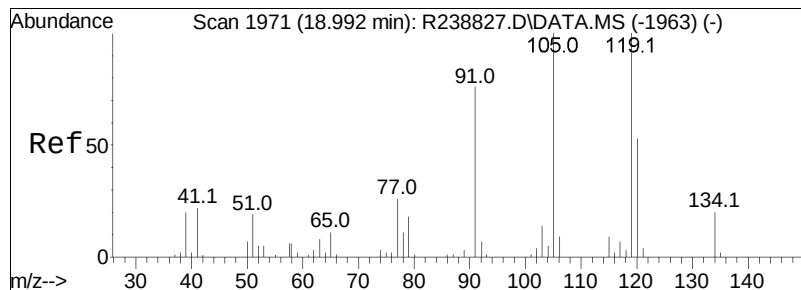




#97
 1,3,5-trimethylbenzene
 Concen: 0.08 ppbV
 RT: 18.69 min Scan# 1910
 Delta R.T. 0.005 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

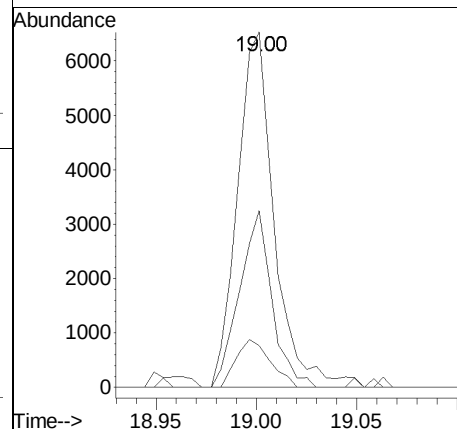
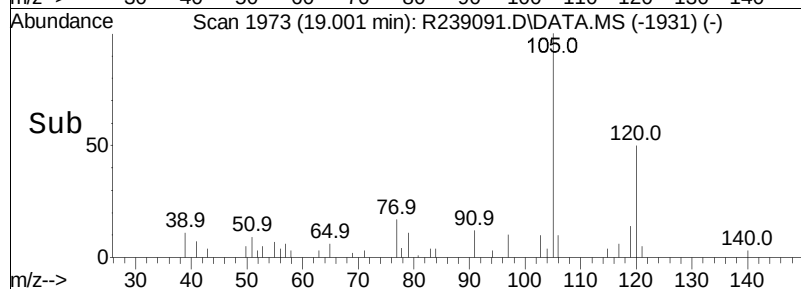
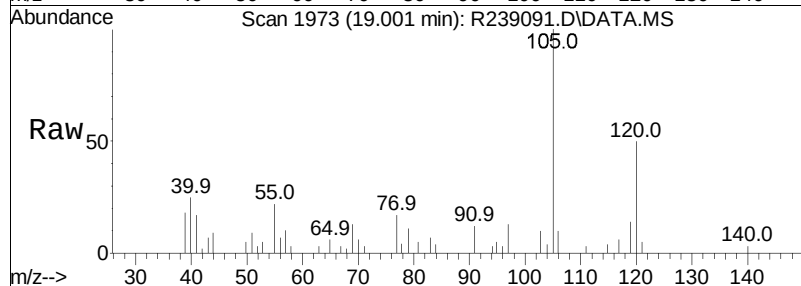
Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.8	37.8	56.6
91	16.5	8.7	13.1





#99
 1,2,4-trimethylbenzene
 Concen: 0.20 ppbV
 RT: 19.00 min Scan# 1973
 Delta R.T. 0.010 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

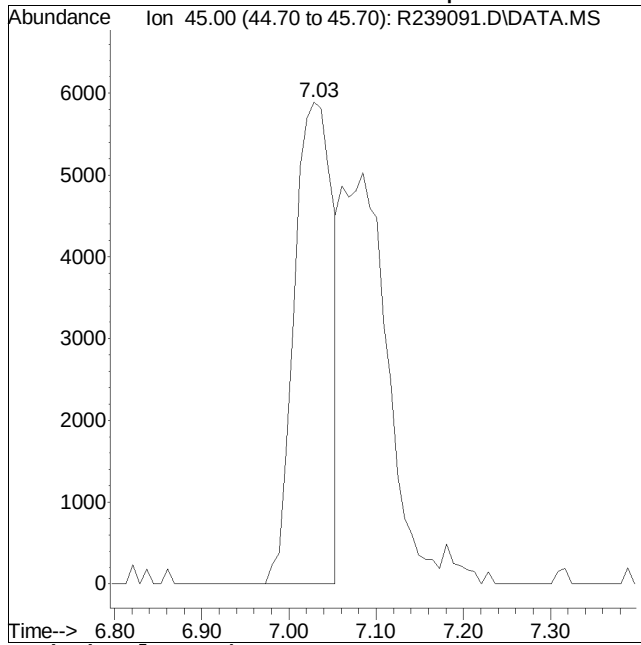
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.7	42.2	63.4
91	11.8	61.1	91.7#



Manual Integration/Negative Proof Report

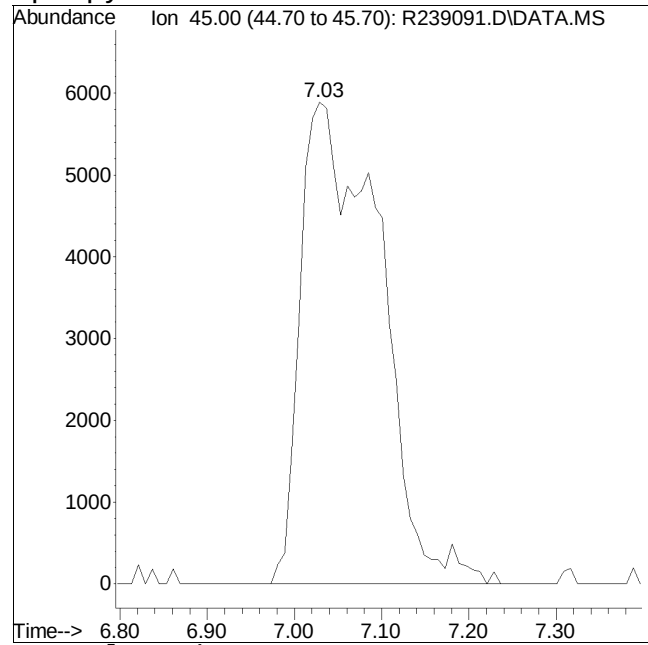
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239091.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 6:18 pm Instrument : Air Piano 2
Sample : L1604136-02,3,250,250 Quant Date : 2/19/2016 11:29 pm

Compound #22: isopropyl alcohol



Original Peak Response = 18001

M4 = Poor automated baseline construction.



Manual Peak Response = 36942 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239093.D
 Acq On : 19 Feb 2016 7:28 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-03,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 20 10:23:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	139125	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		94.50%	
43) 1,4-difluorobenzene	12.55	114	344324	10.000	ppbV	0.01
Standard Area = 368790			Recovery =		93.37%	
67) chlorobenzene-D5	16.90	54	74943	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		93.28%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	7934	0.451	ppbV	98
6) chloromethane	4.65	50	4340	0.446	ppbV	98
7) Freon-114	4.80		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.11	31	10774	1.283	ppbV	91
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.73	43	14401M3	0.884	ppbV	
21) trichlorofluoromethane	6.84	101	4664	0.211	ppbV	94
22) isopropyl alcohol	0.00		0	N.D.	d	
27) tertiary butyl alcohol	0.00		0	N.D.		
28) methylene chloride	7.84	49	2027	0.151	ppbV	99
29) 3-chloropropene	8.01		0	N.D.		
30) carbon disulfide	0.00		0	N.D.		
31) Freon 113	8.16	101	1015	0.054	ppbV #	72
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.		
36) 2-butanone	9.85	43	1870M3	0.073	ppbV	
38) Ethyl Acetate	0.00		0	N.D.		
39) chloroform	0.00		0	N.D.		
40) Tetrahydrofuran	0.00		0	N.D.		
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.44		0	N.D.		
50) benzene	12.16	78	5113	0.152	ppbV	92
53) cyclohexane	0.00		0	N.D.	d	
56) 1,2-dichloropropane	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239093.D
 Acq On : 19 Feb 2016 7:28 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-03,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 20 10:23:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.00		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	13.37		0		N.D.	
62) heptane	0.00		0		N.D.	d
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	0.00		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	15.33	91	4807	0.096	ppbV	92
72) 2-hexanone	15.56		0		N.D.	
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	
81) ethylbenzene	17.23		0		N.D.	
83) m+p-xylene	17.36		0		N.D.	
84) bromoform	0.00		0		N.D.	
85) styrene	0.00		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	
87) o-xylene	17.73		0		N.D.	
96) 4-ethyl toluene	18.63		0		N.D.	
97) 1,3,5-trimethylbenzene	18.67		0		N.D.	
99) 1,2,4-trimethylbenzene	19.01		0		N.D.	
101) Benzyl Chloride	0.00		0		N.D.	
102) 1,3-dichlorobenzene	0.00		0		N.D.	
103) 1,4-dichlorobenzene	0.00		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	0.00		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

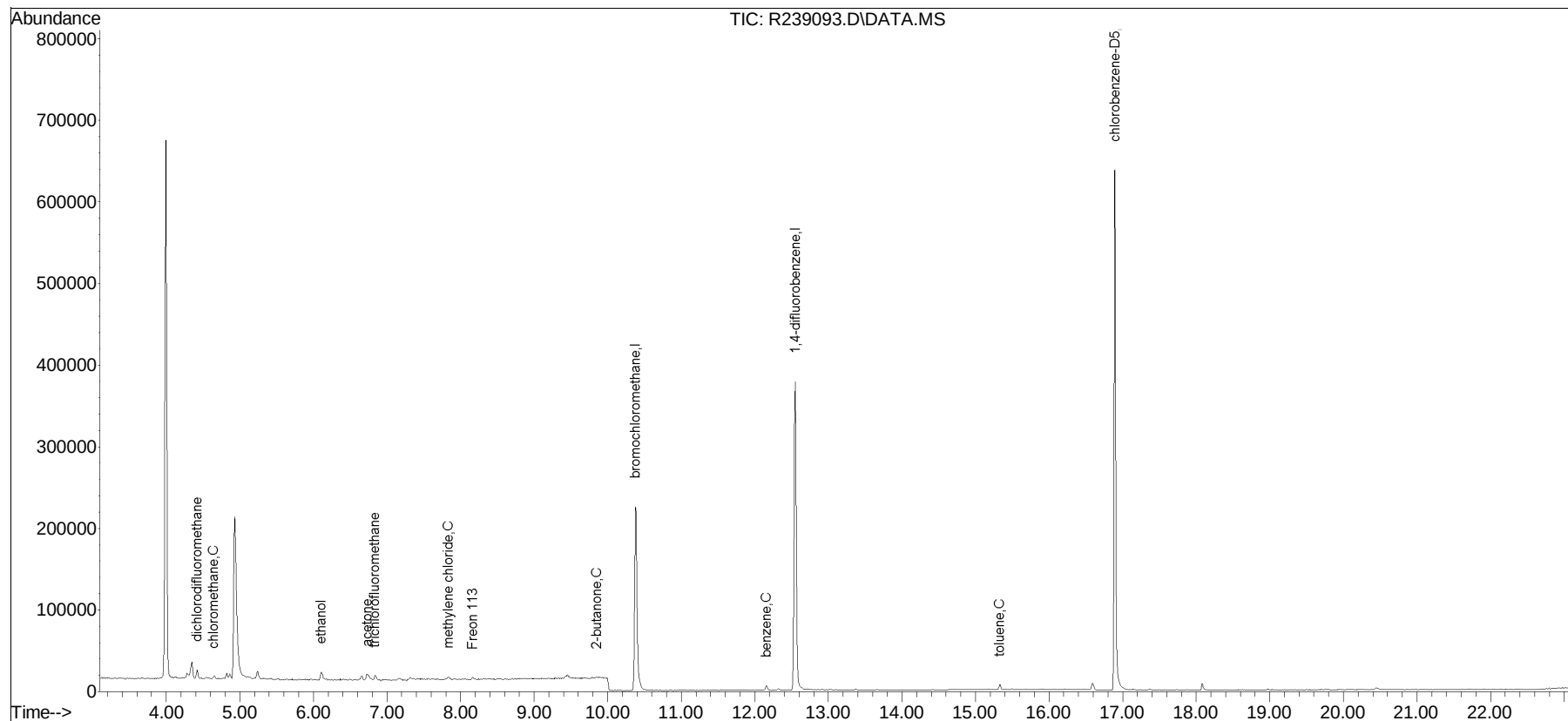
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239093.D
 Acq On : 19 Feb 2016 7:28 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-03, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

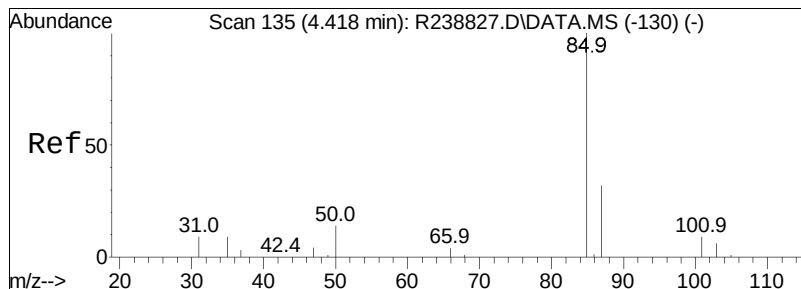
Quant Time: Feb 20 10:23:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY-7-SIM - .\AIR2\2016\160219T\R239086.D



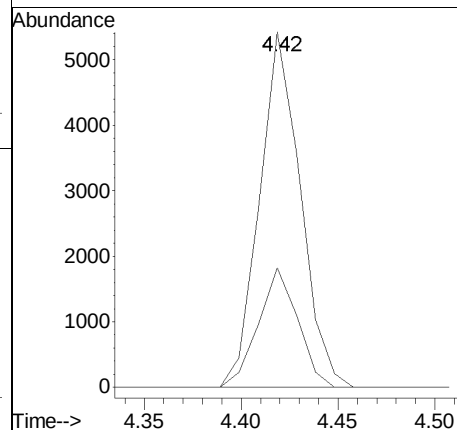
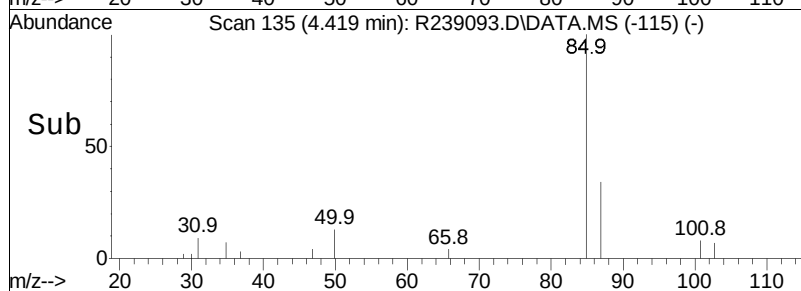
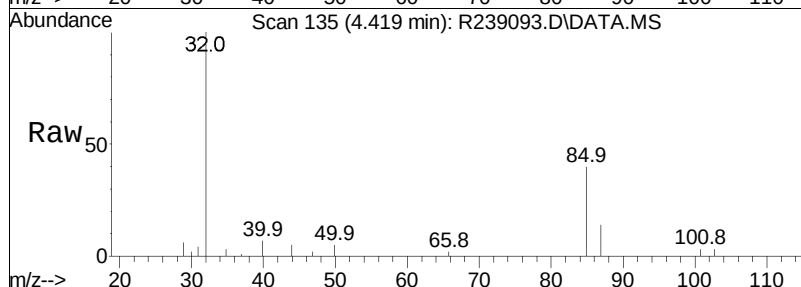
TALL160207.M Sat Feb 20 10:24:06 2016

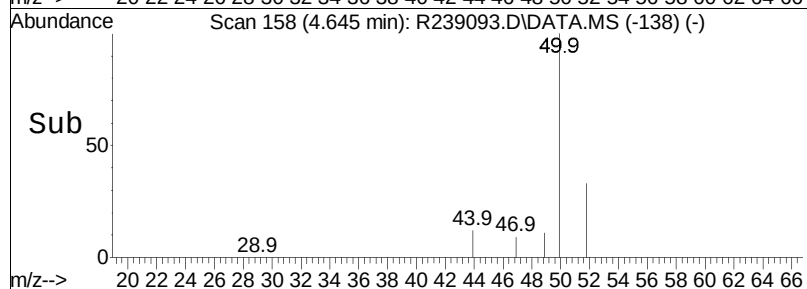
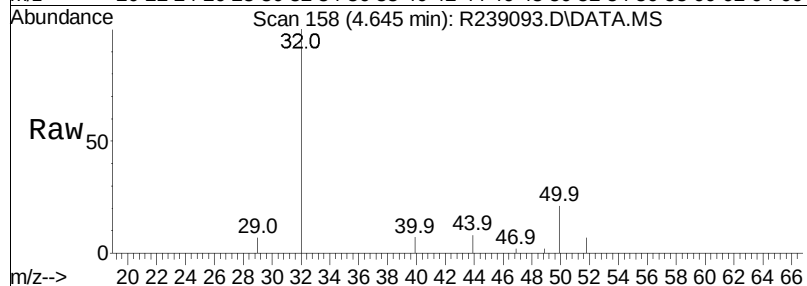
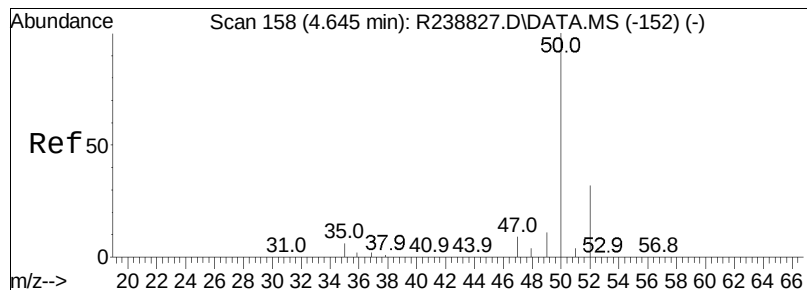
Page 3



#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239093.D
Acq: 19 Feb 2016 7:28 pm

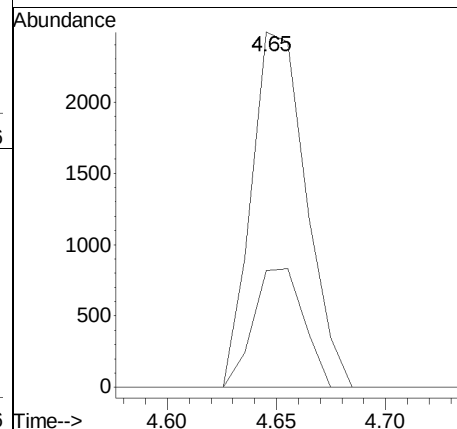
Tgt Ion: 85 Resp: 7934
Ion Ratio Lower Upper
85 100
87 33.7 25.8 38.8

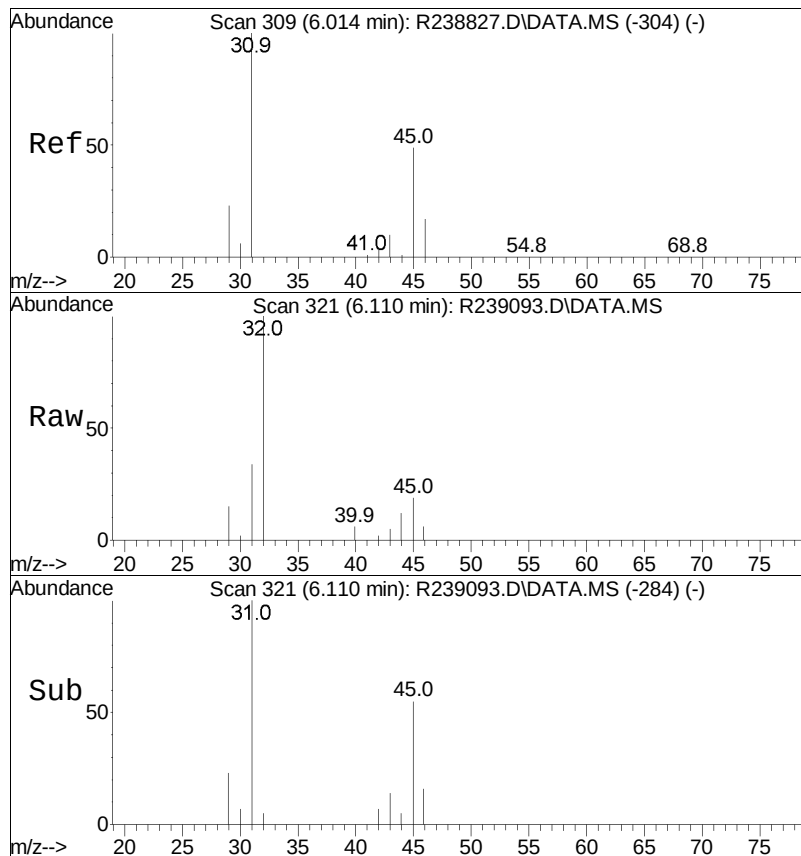




#6
 chloromethane
 Concen: 0.45 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

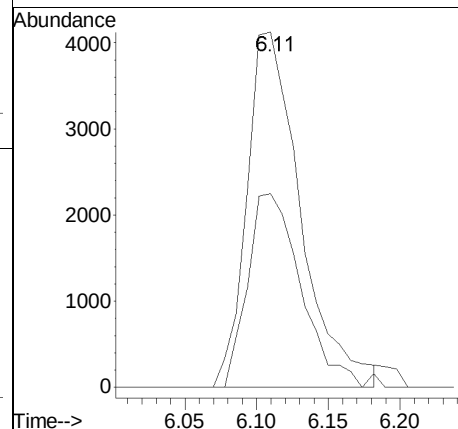
Tgt	Ion	Resp	Lower	Upper
50	100	4340		
52	32.9	25.5	38.3	

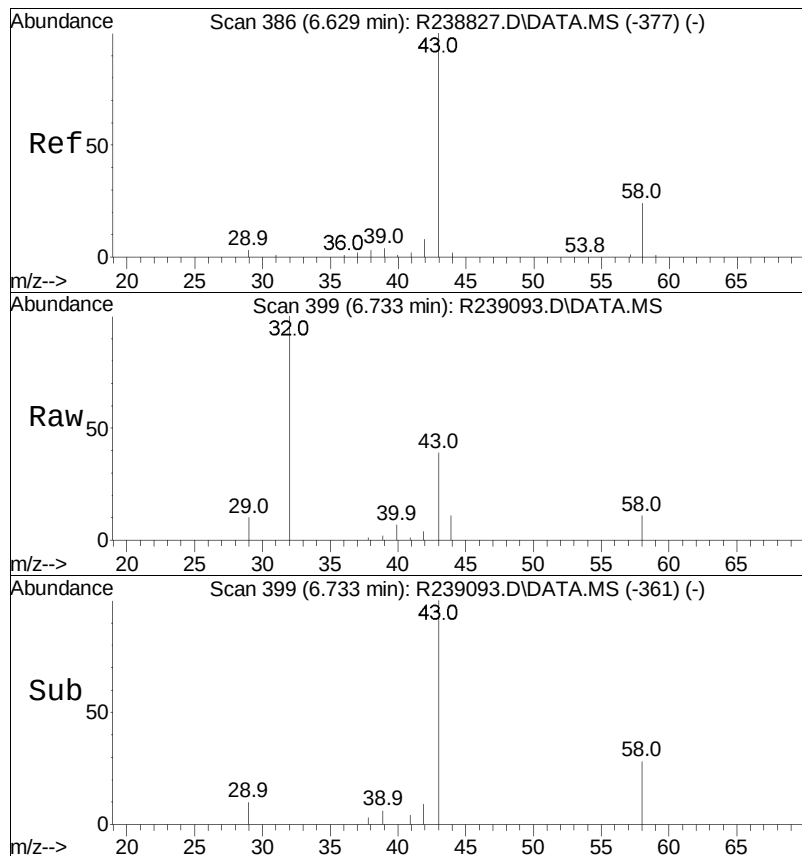




#15
ethanol
Concen: 1.28 ppbV
RT: 6.11 min Scan# 321
Delta R.T. 0.096 min
Lab File: R239093.D
Acq: 19 Feb 2016 7:28 pm

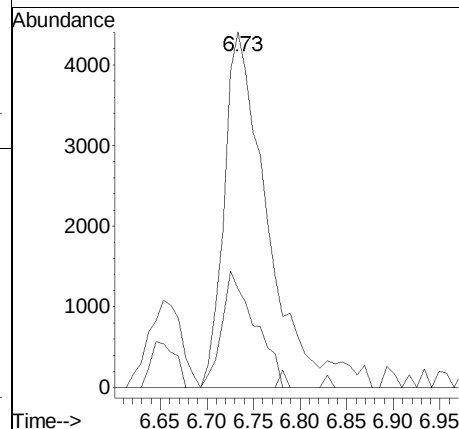
Tgt Ion:	31	Resp:	10774
Ion Ratio	Lower	Upper	
31	100		
45	54.5	38.7	58.1

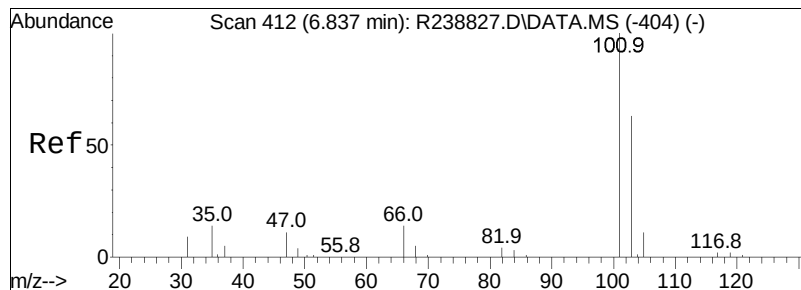




#19
 acetone
 Concen: 0.88 ppbV m
 RT: 6.73 min Scan# 399
 Delta R.T. 0.104 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

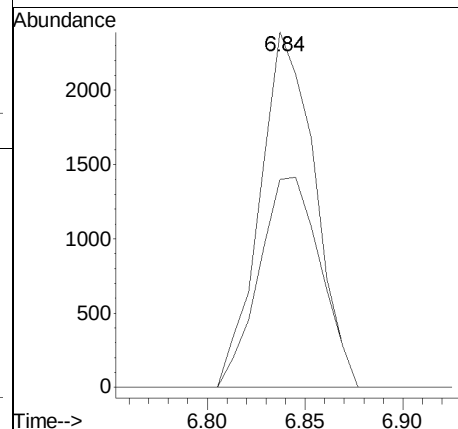
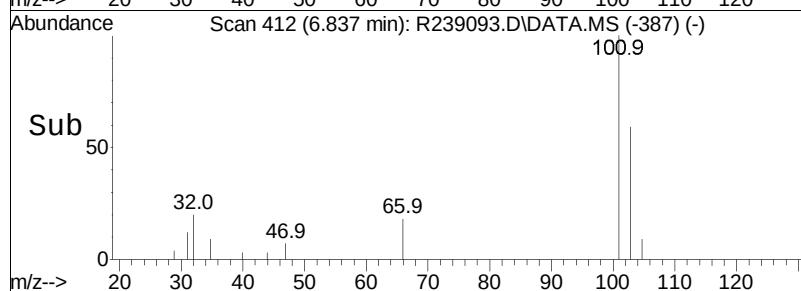
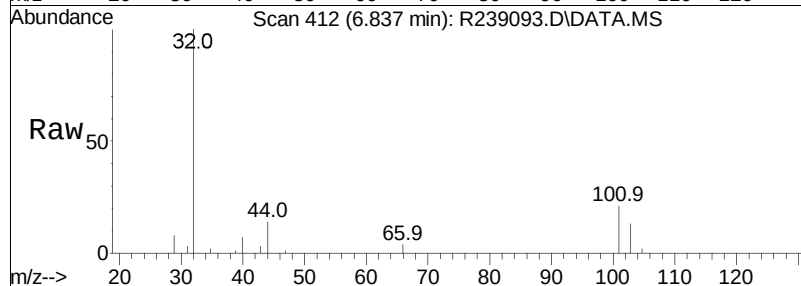
Tgt Ion:	43	Resp:	14401
Ion Ratio	Lower	Upper	
43	100		
58	27.7	19.2	28.8
57	0.0	0.6	1.0#

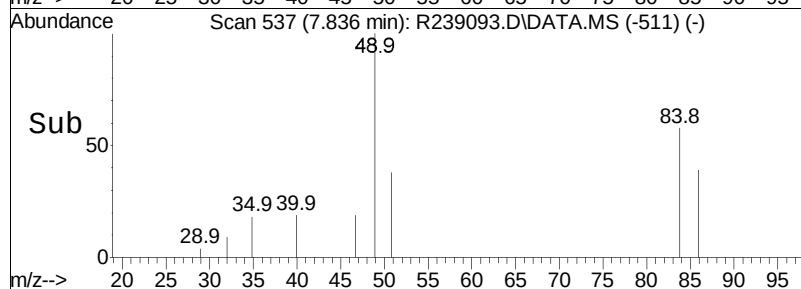
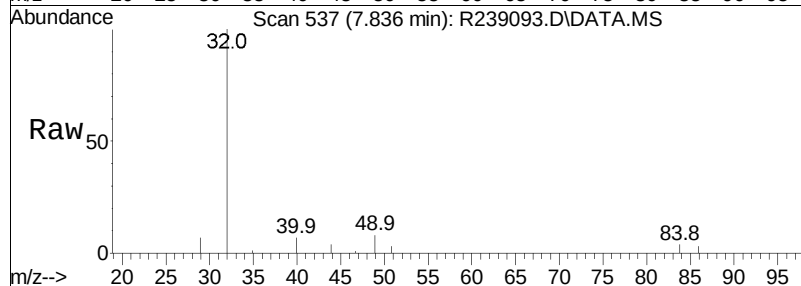
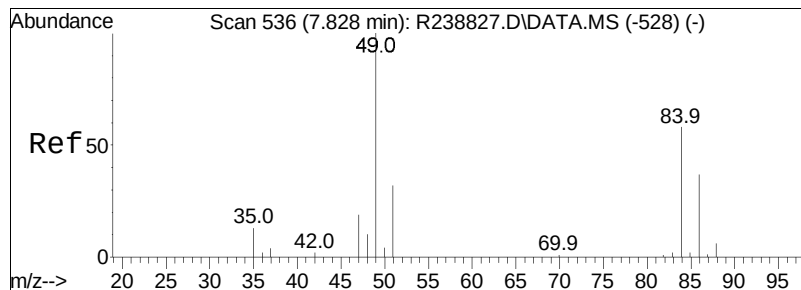




#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239093.D
Acq: 19 Feb 2016 7:28 pm

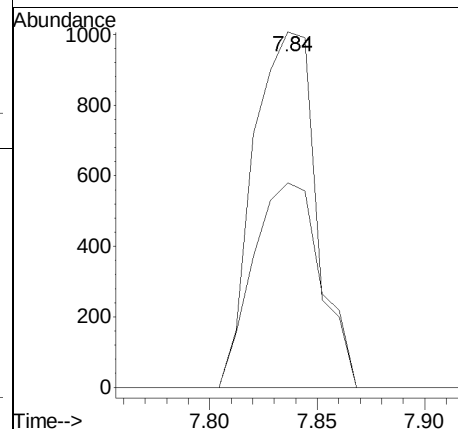
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		4664		
103	58.5	50.5	75.7		

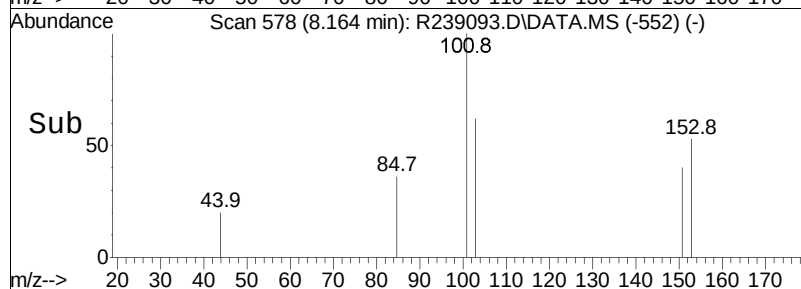
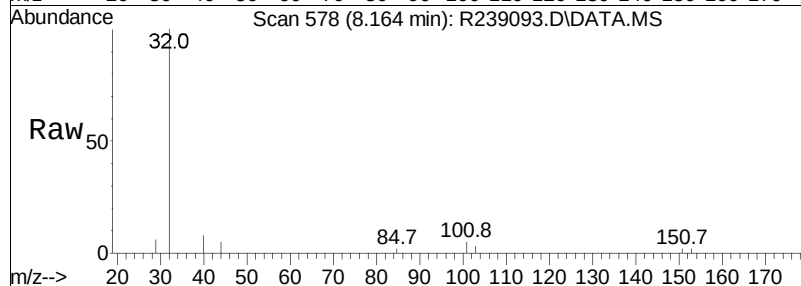
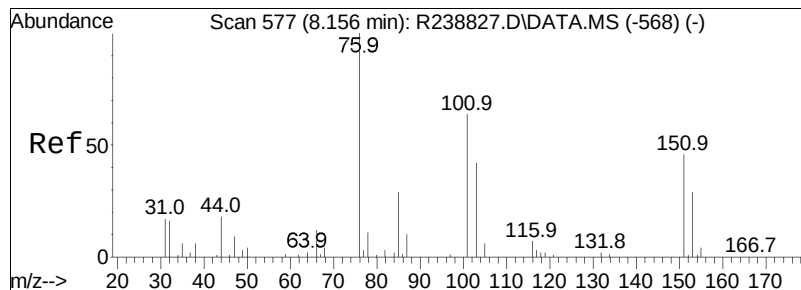




#28
 methylene chloride
 Concen: 0.15 ppbV
 RT: 7.84 min Scan# 537
 Delta R.T. 0.008 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

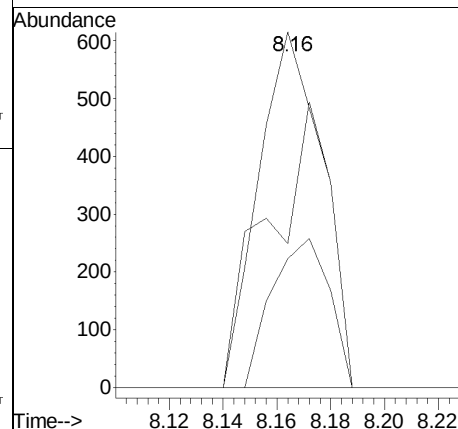
Tgt Ion:	49	84	Ratio	100	57.6	Resp:	2027	Lower	Upper
								46.5	69.7

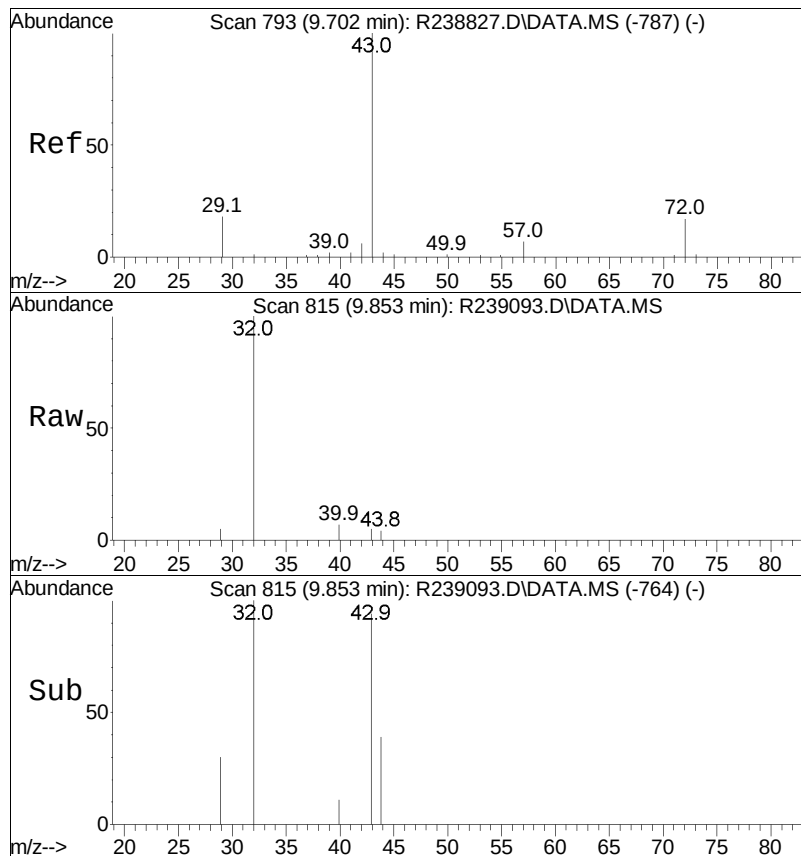




#31
 Freon 113
 Concen: 0.05 ppbV
 RT: 8.16 min Scan# 578
 Delta R.T. 0.008 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

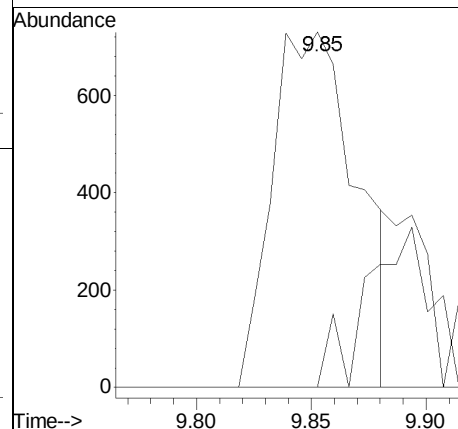
Tgt Ion	Ratio	Lower	Upper
101	100		
85	36.3	35.8	53.6
151	40.5	57.4	86.2#

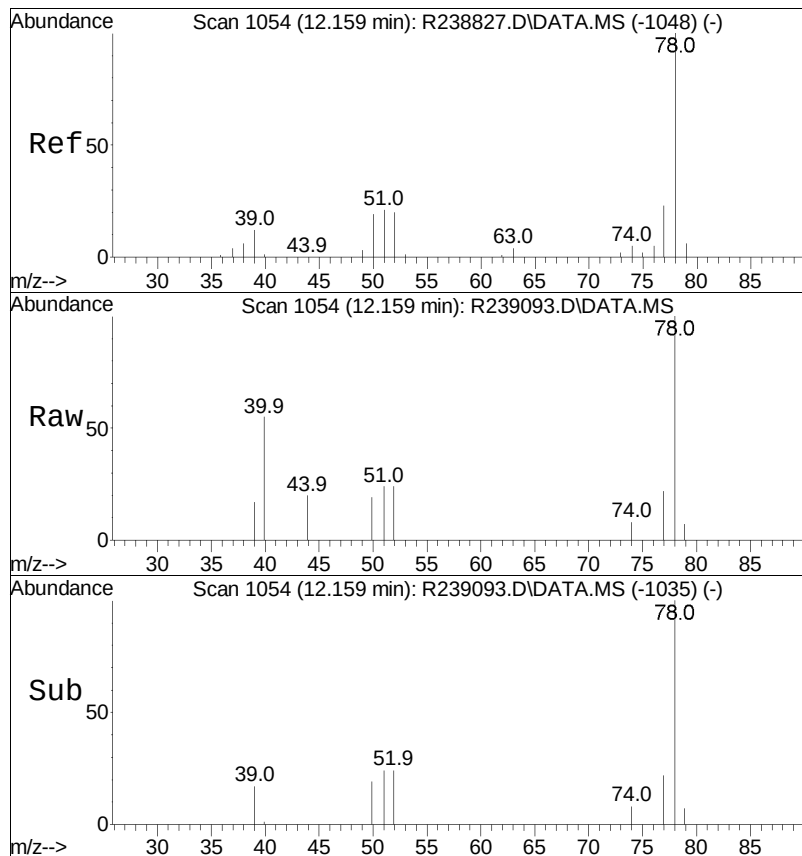




#36
 2-butanone
 Concen: 0.07 ppbV m
 RT: 9.85 min Scan# 815
 Delta R.T. 0.151 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

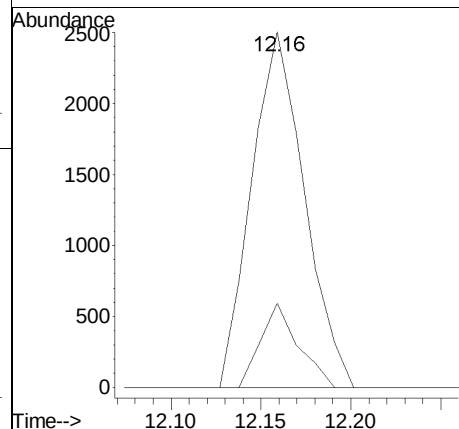
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.5	20.3#
57	0.0	5.5	8.3#

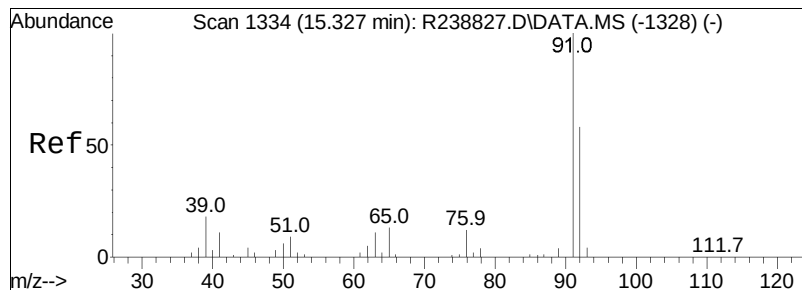




#50
benzene
Concen: 0.15 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239093.D
Acq: 19 Feb 2016 7:28 pm

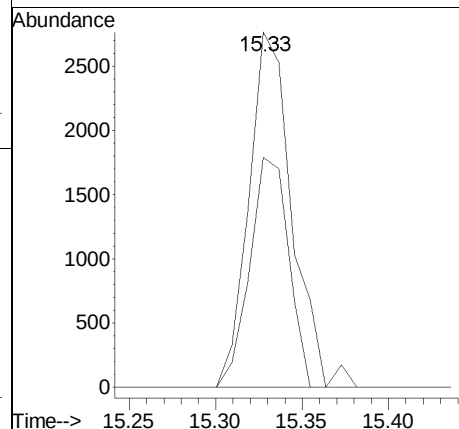
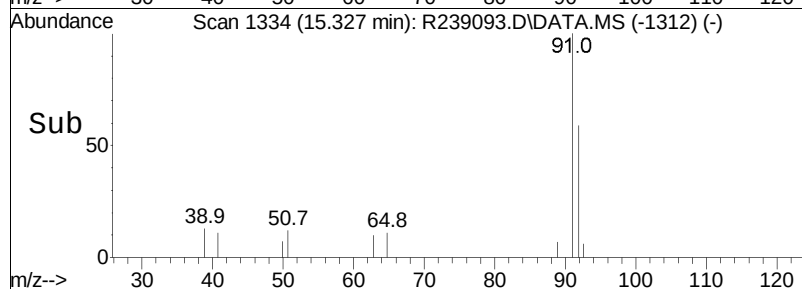
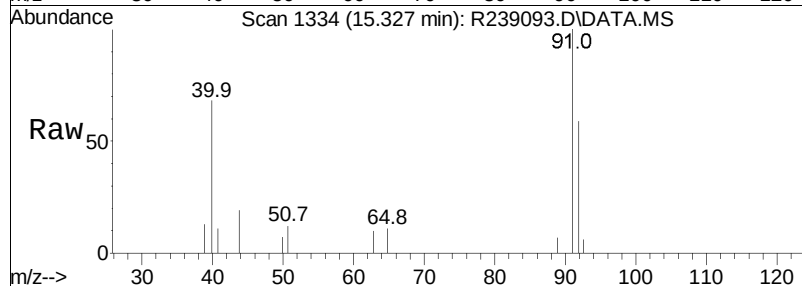
Tgt Ion: 78 Resp: 5113
Ion Ratio Lower Upper
78 100
52 23.7 15.9 23.9





#68
toluene
Concen: 0.10 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239093.D
Acq: 19 Feb 2016 7:28 pm

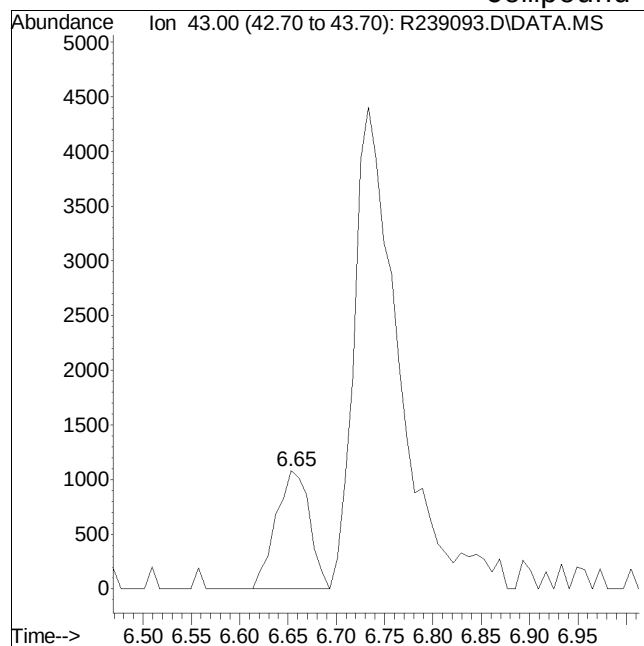
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	64.7	46.7	70.1	



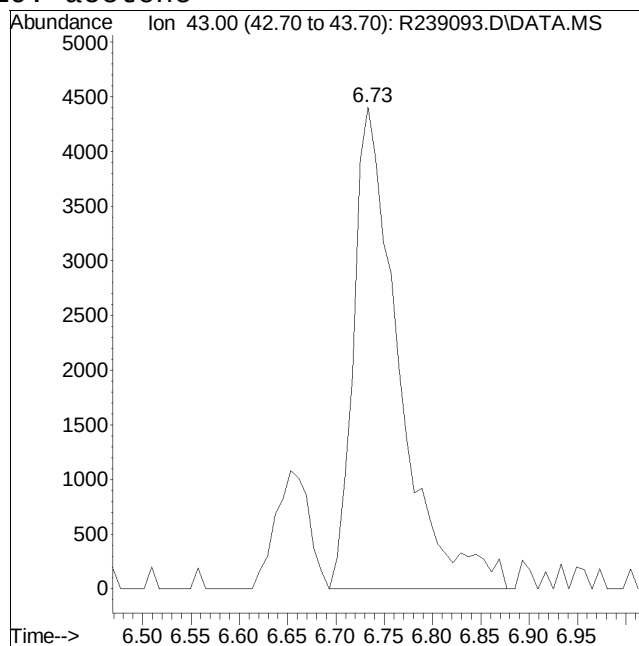
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R239093.D Operator : AIRPIAN02:RY
 Date Inj'd : 2/19/2016 7:28 pm Instrument : Air Piano 2
 Sample : L1604136-03,3,250,250 Quant Date : 2/19/2016 11:31 pm

Compound #19: acetone



Original Peak Response = 2621



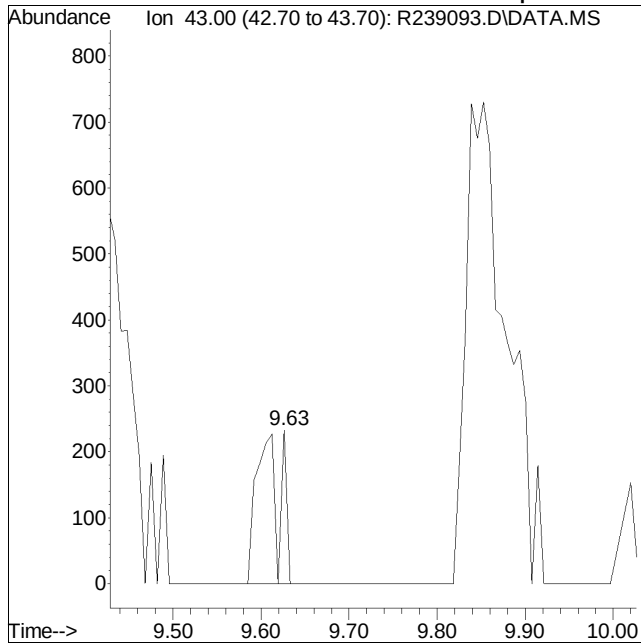
Manual Peak Response = 14401 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

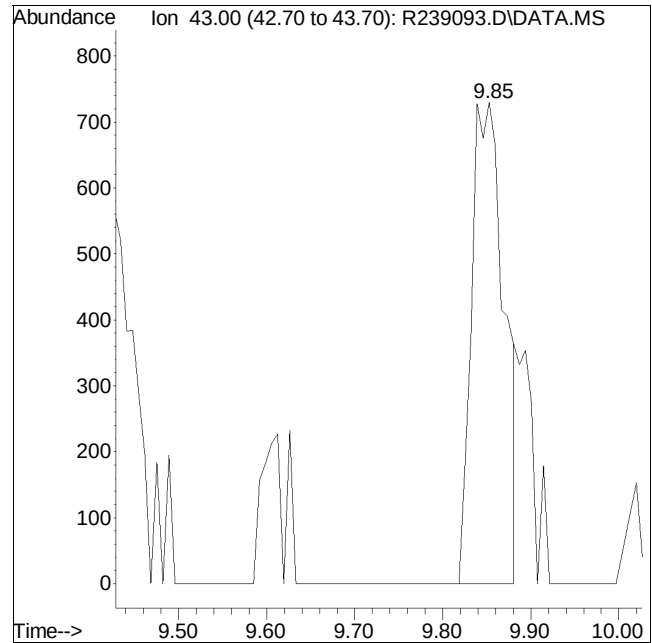
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239093.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 7:28 pm Instrument : Air Piano 2
Sample : L1604136-03,3,250,250 Quant Date : 2/19/2016 11:31 pm

Compound #36: 2-butanone



Original Peak Response = 417

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 1870 M3

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239094.D
 Acq On : 19 Feb 2016 8:02 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-01,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 10:25:22 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.39	49	140575	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		95.49%	
43) 1,4-difluorobenzene	12.55	114	340076	10.000	ppbV	0.01
Standard Area = 368790			Recovery =		92.21%	
67) chlorobenzene-D5	16.89	54	76643	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		95.40%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	8242	0.464	ppbV	99
6) chloromethane	4.65	50	1612	0.164	ppbV #	78
7) Freon-114	4.80		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	5.16	54	531M6	0.071	ppbV	
13) bromomethane	5.54		0	N.D.		
14) chloroethane	5.79		0	N.D.		
15) ethanol	6.03	31	237090	27.938	ppbV	94
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.63	43	2230919	135.460	ppbV #	97
21) trichlorofluoromethane	6.84	101	12470	0.559	ppbV	88
22) isopropyl alcohol	7.06	45	25561M4	1.358	ppbV	
26) 1,1-dichloroethene	0.00		0	N.D.	d	
27) tertiary butyl alcohol	7.83	59	38966	1.812	ppbV #	90
28) methylene chloride	7.83	49	1866	0.137	ppbV #	82
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	8.16	76	31047	1.134	ppbV	97
31) Freon 113	8.16	101	1292	0.069	ppbV #	78
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	9.72	43	173727	6.708	ppbV	96
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	0.00		0	N.D.	d	
39) chloroform	10.53	83	12376	0.621	ppbV	98
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.43	57	38655	2.022	ppbV #	42

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239094.D
 Acq On : 19 Feb 2016 8:02 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-01,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 10:25:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
48) 1,1,1-trichloroethane	11.65	97	4715	0.178	ppbV	#	91
50) benzene	12.16	78	46726	1.410	ppbV		98
52) carbon tetrachloride	12.32		0	N.D.			
53) cyclohexane	12.46	56	5175	0.253	ppbV	#	83
56) 1,2-dichloropropane	0.00		0	N.D.			
57) bromodichloromethane	0.00		0	N.D.	d		
58) 1,4-dioxane	0.00		0	N.D.			
59) trichloroethene	0.00		0	N.D.			
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d		
62) heptane	13.66	43	51330	1.889	ppbV		97
63) cis-1,3-dichloropropene	0.00		0	N.D.			
64) 4-methyl-2-pentanone	14.37	43	19304M6	0.532	ppbV		
65) trans-1,3-dichloropropene	0.00		0	N.D.			
66) 1,1,2-trichloroethane	15.11		0	N.D.			
68) toluene	15.33	91	192393	3.754	ppbV		98
72) 2-hexanone	15.58	43	43074	1.089	ppbV		98
74) dibromochloromethane	0.00		0	N.D.			
75) 1,2-dibromoethane	0.00		0	N.D.			
78) tetrachloroethene	16.36	166	17694	0.764	ppbV		96
80) chlorobenzene	0.00		0	N.D.	d		
81) ethylbenzene	17.22	91	35698	0.774	ppbV		97
83) m+p-xylene	17.34	91	76865	2.152	ppbV		98
84) bromoform	0.00		0	N.D.			
85) styrene	17.64	104	9976	0.361	ppbV		92
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d		
87) o-xylene	17.72	91	38196	1.040	ppbV		96
96) 4-ethyl toluene	18.63	105	7931	0.145	ppbV	#	89
97) 1,3,5-trimethylbenzene	18.69	105	7053	0.156	ppbV	#	94
99) 1,2,4-trimethylbenzene	18.99	105	14466	0.338	ppbV	#	51
101) Benzyl Chloride	0.00		0	N.D.	d		
102) 1,3-dichlorobenzene	19.17		0	N.D.			
103) 1,4-dichlorobenzene	19.17		0	N.D.			
107) 1,2-dichlorobenzene	0.00		0	N.D.			
115) 1,2,4-trichlorobenzene	20.87		0	N.D.			
119) hexachlorobutadiene	0.00		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239094.D
 Acq On : 19 Feb 2016 8:02 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-01,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 10:25:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

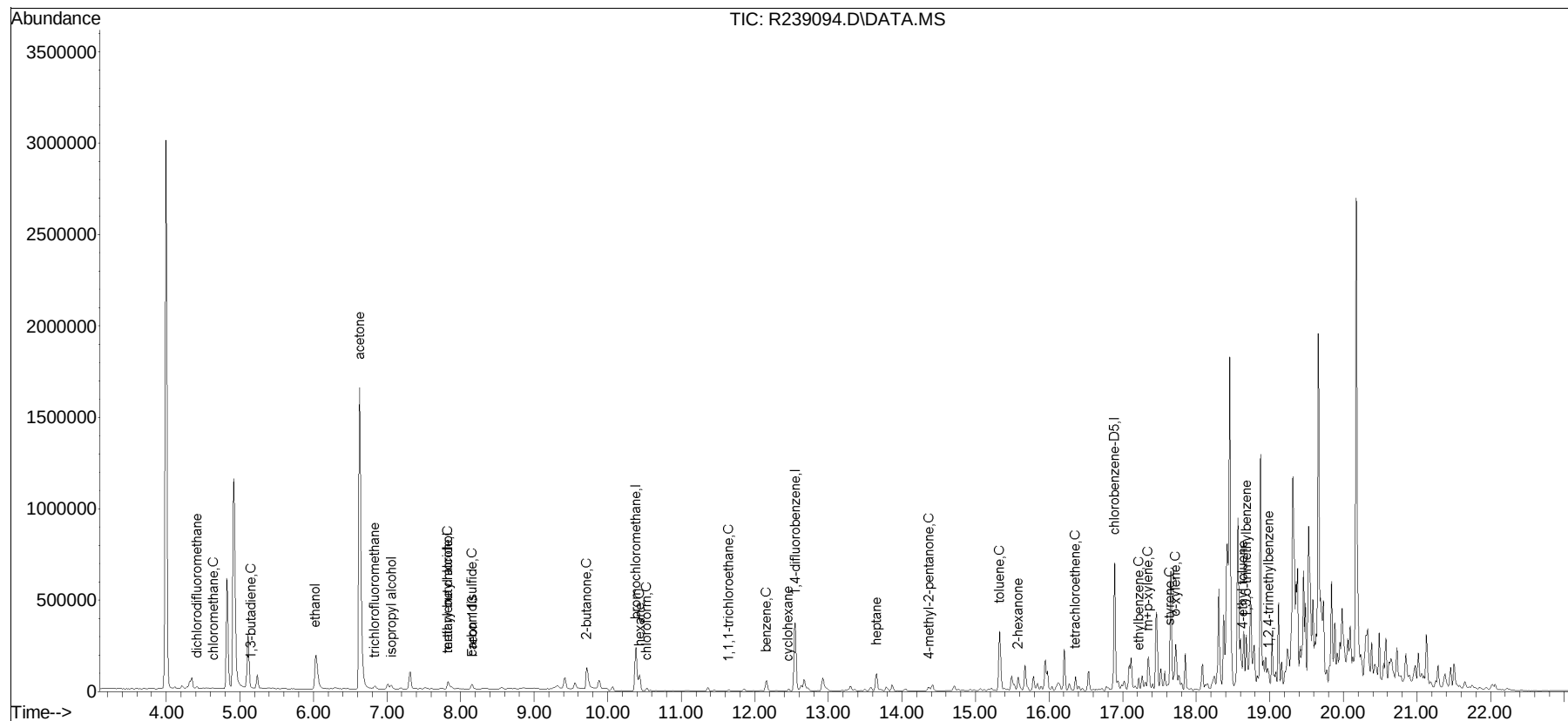
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239094.D
 Acq On : 19 Feb 2016 8:02 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-01, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

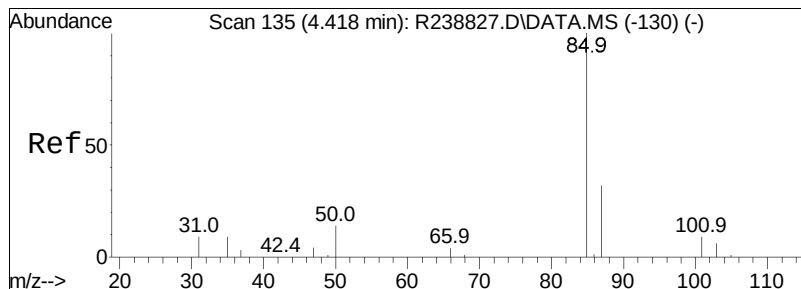
Quant Time: Feb 20 10:25:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



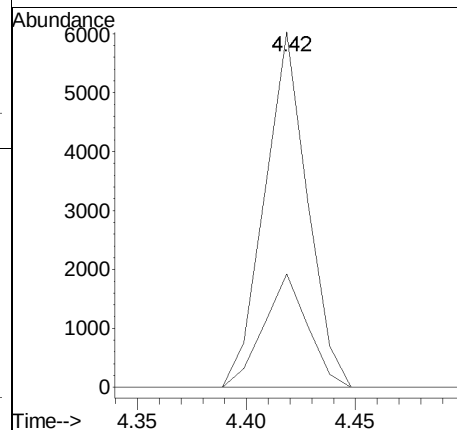
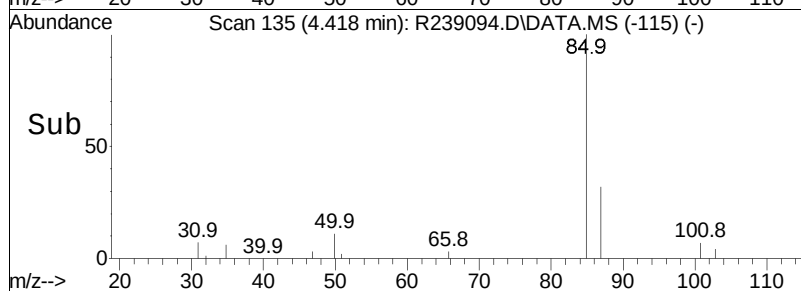
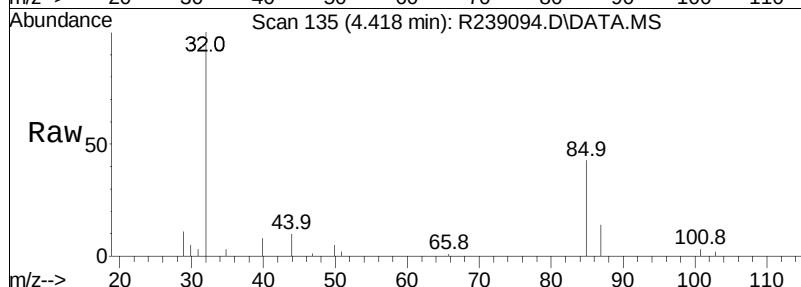
TALL160207.M Sat Feb 20 10:25:32 2016

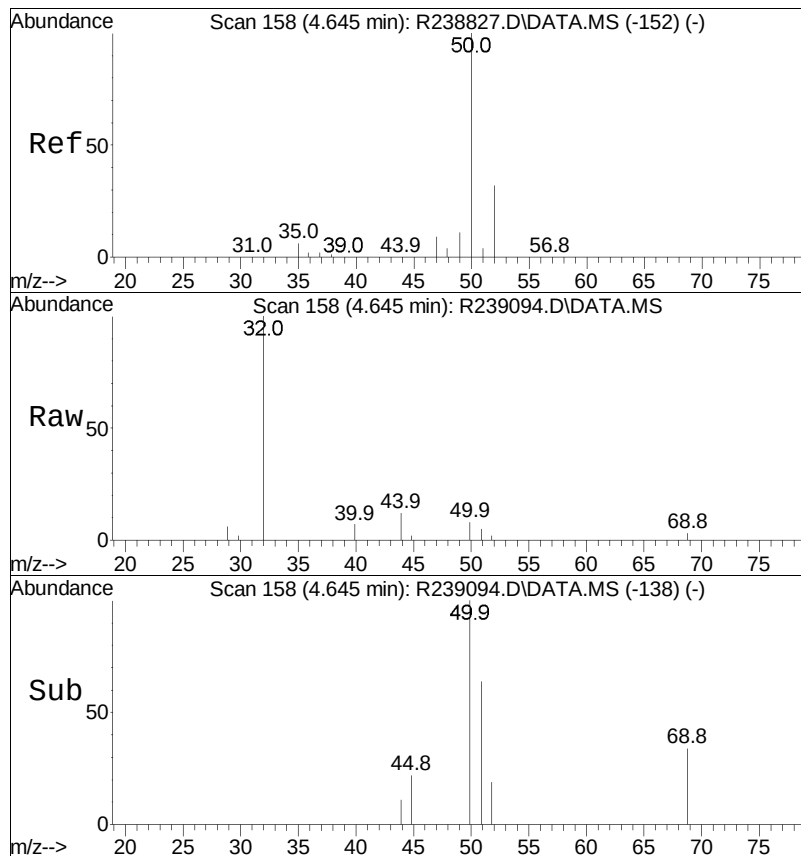
Page 4



#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

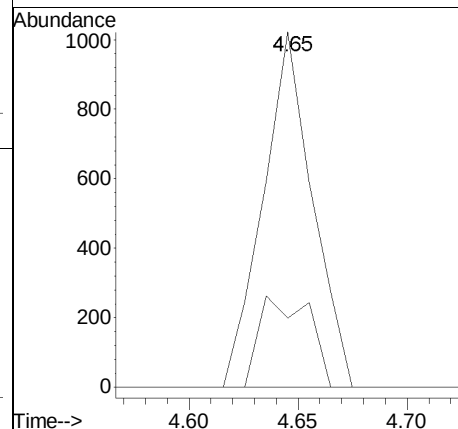
Tgt Ion: 85 Resp: 8242
Ion Ratio Lower Upper
85 100
87 32.0 25.8 38.8

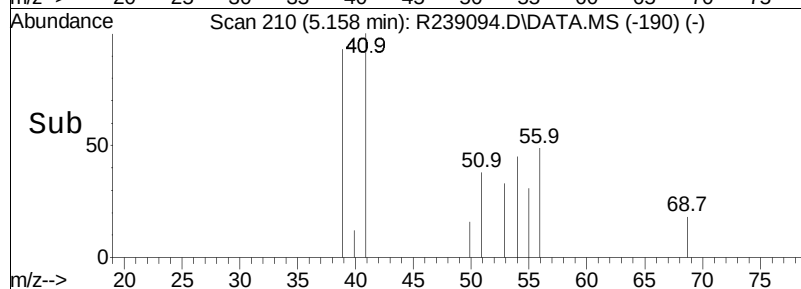
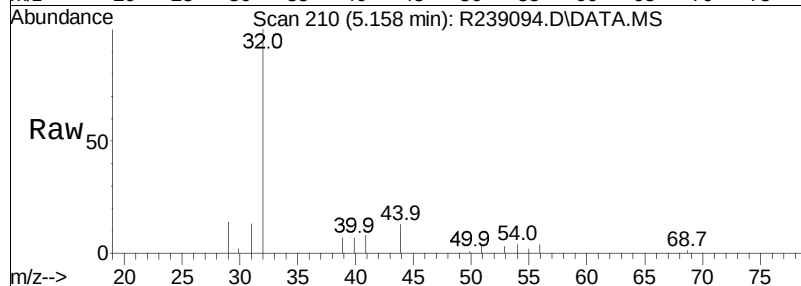
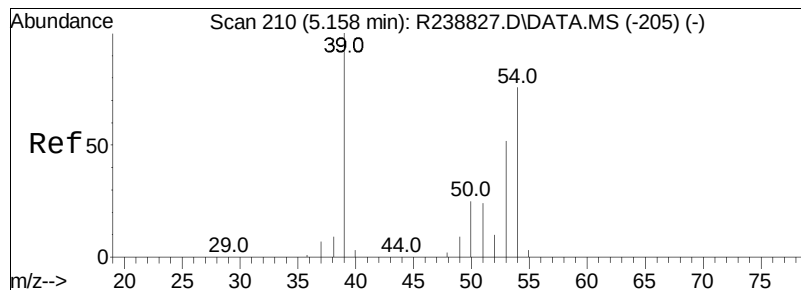




#6
 chloromethane
 Concen: 0.16 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

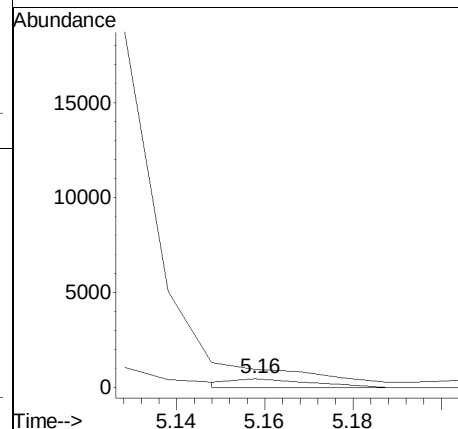
Tgt Ion	Ratio	Lower	Upper
50	100		
52	19.5	25.5	38.3#

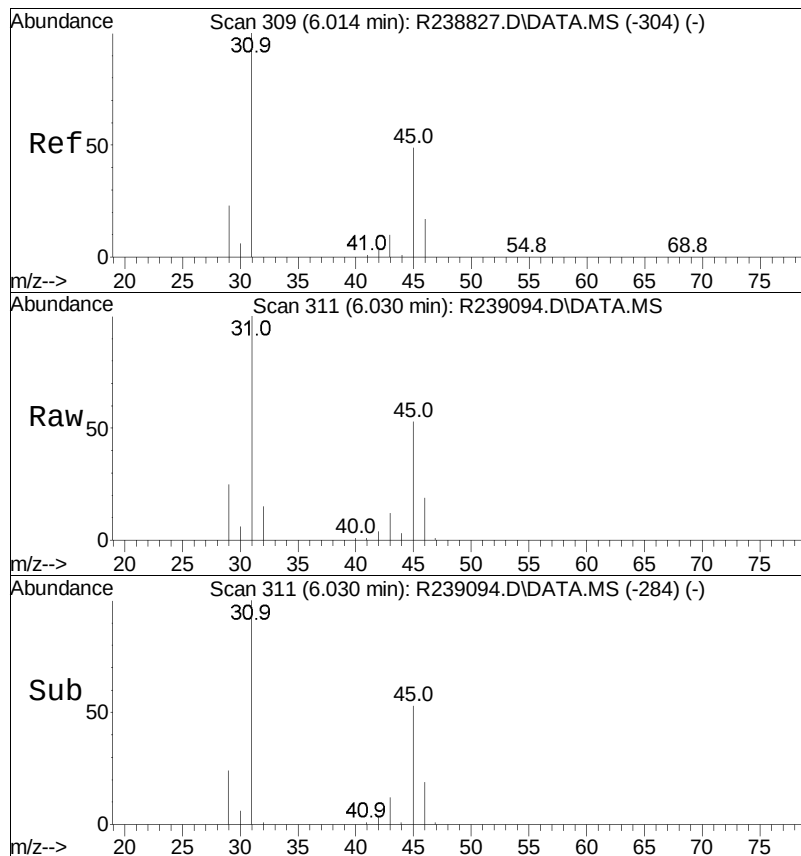




#10
 1,3-butadiene
 Concen: 0.07 ppbV m
 RT: 5.16 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

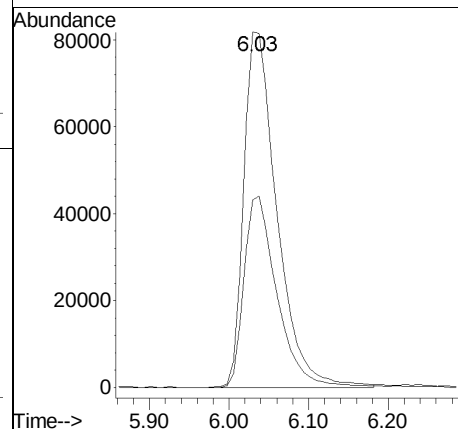
Tgt Ion	Ratio	Lower	Upper
54	100		
39	207.0	106.1	159.1#

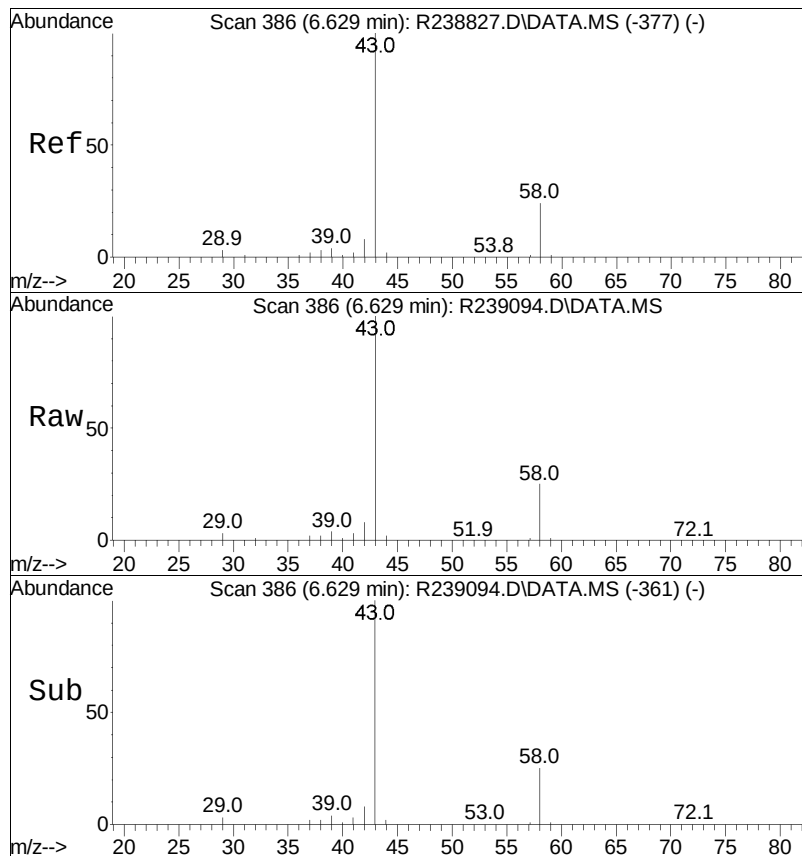




#15
ethanol
Concen: 27.94 ppbV
RT: 6.03 min Scan# 311
Delta R.T. 0.016 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

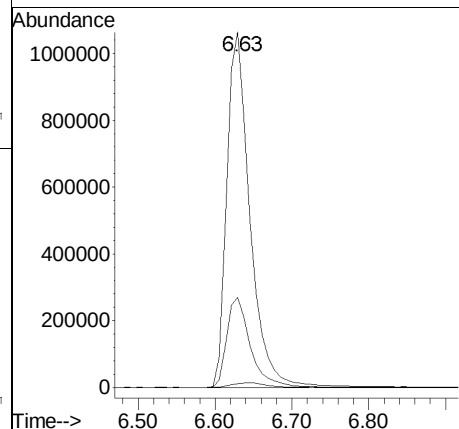
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	52.7	38.7	58.1	

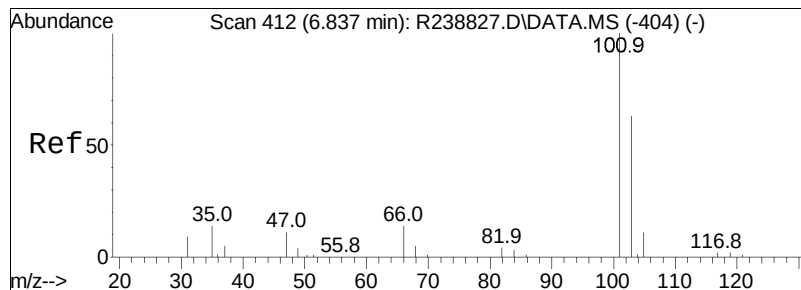




#19
acetone
Concen: 135.46 ppbV
RT: 6.63 min Scan# 386
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

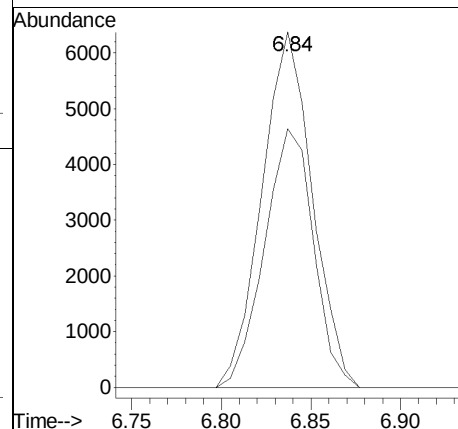
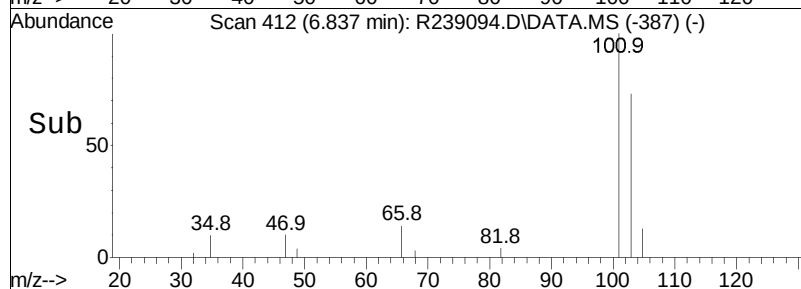
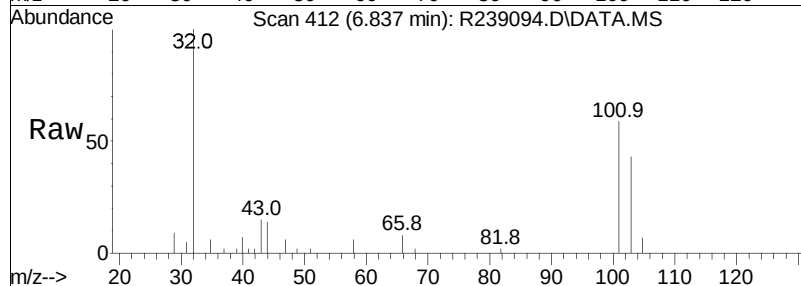
Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.3	19.2	28.8
57	1.0	0.6	1.0#

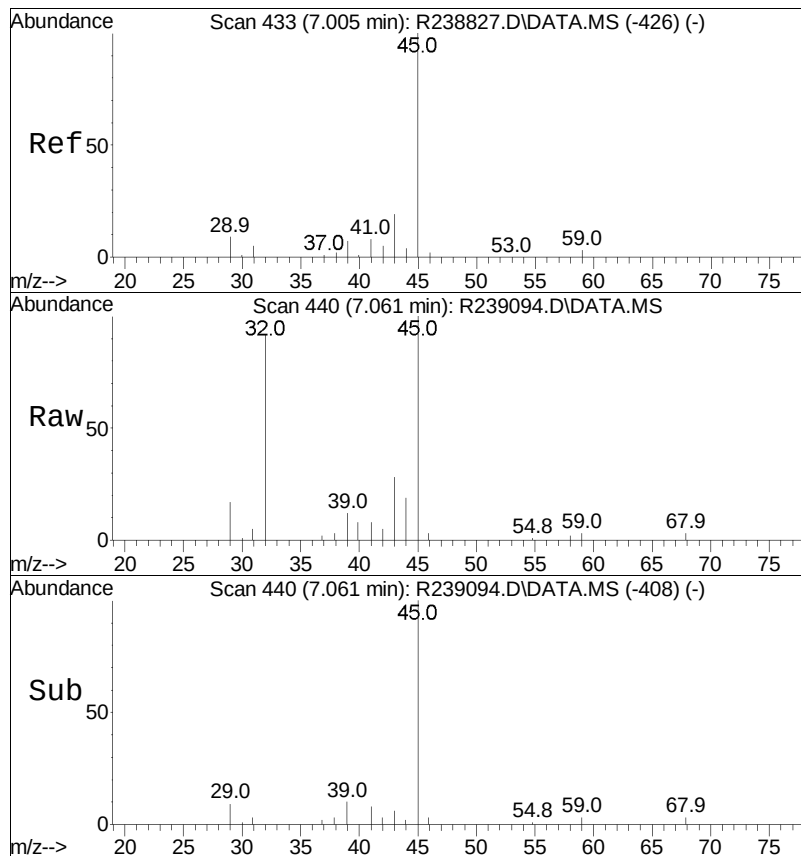




#21
trichlorofluoromethane
Concen: 0.56 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

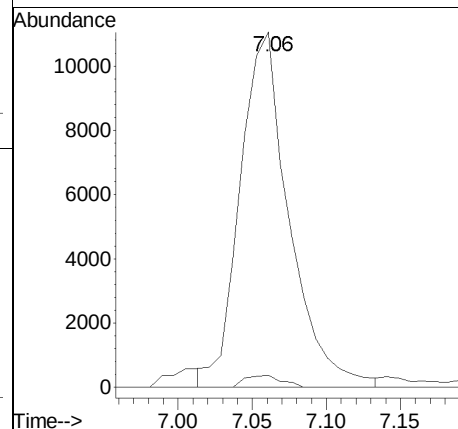
Tgt Ion	Ratio	Lower	Upper
101	100		
103	72.8	50.5	75.7

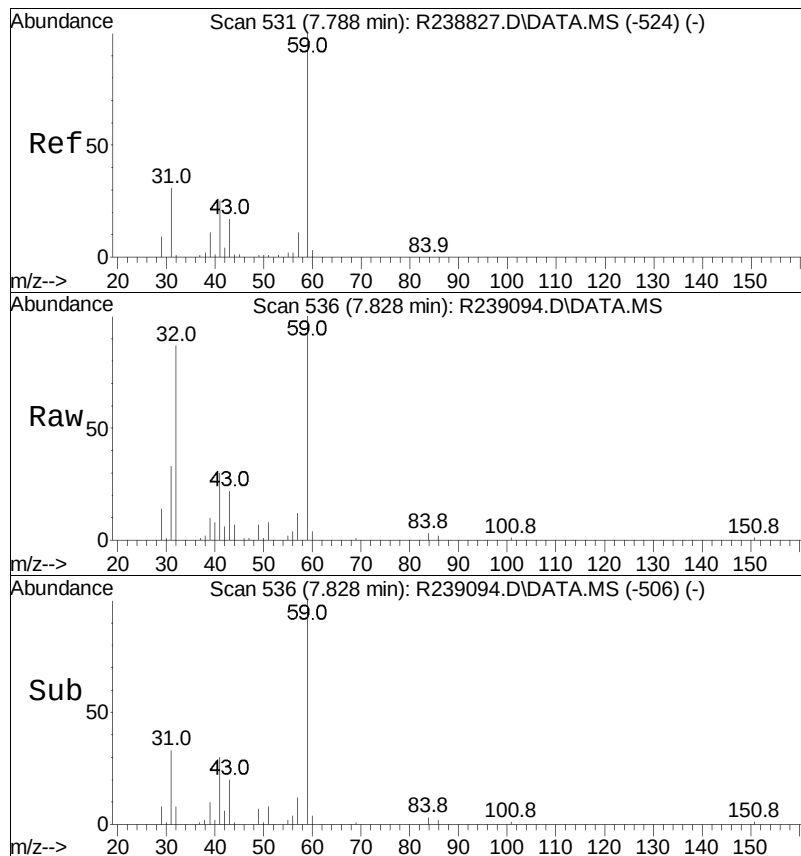




#22
 isopropyl alcohol
 Concen: 1.36 ppbV m
 RT: 7.06 min Scan# 440
 Delta R.T. 0.056 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

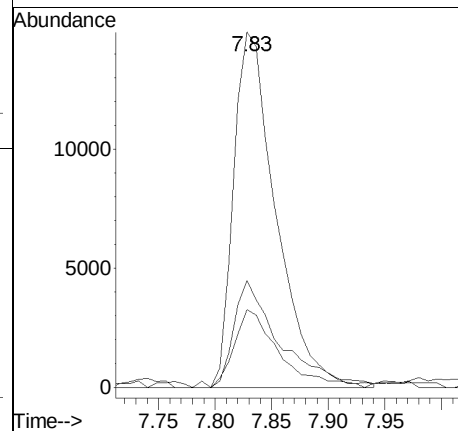
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.4	2.6	4.0

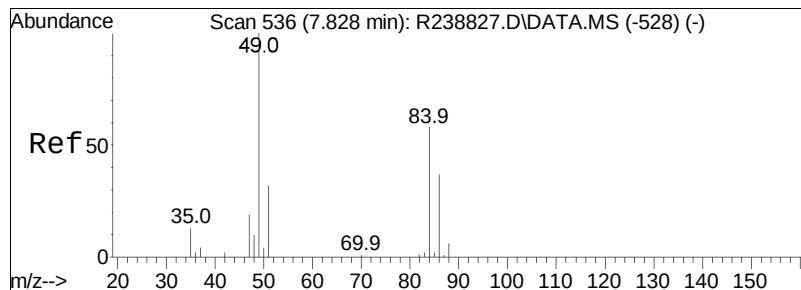




#27
 tertiary butyl alcohol
 Concen: 1.81 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.040 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

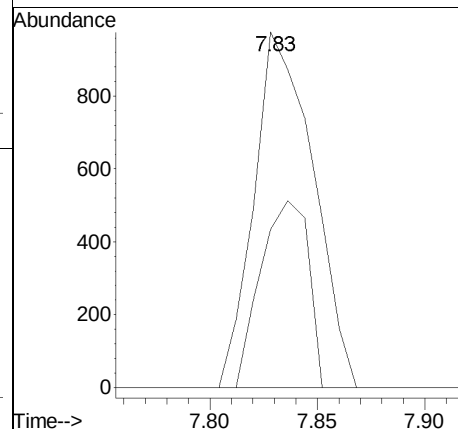
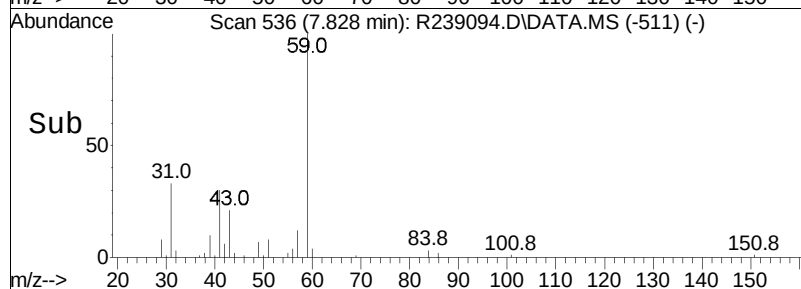
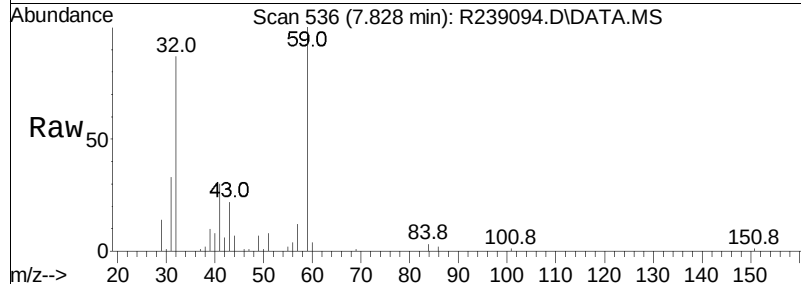
Tgt Ion	Ratio	Lower	Upper
59	100		
41	30.1	20.5	30.7
43	21.9	13.8	20.8

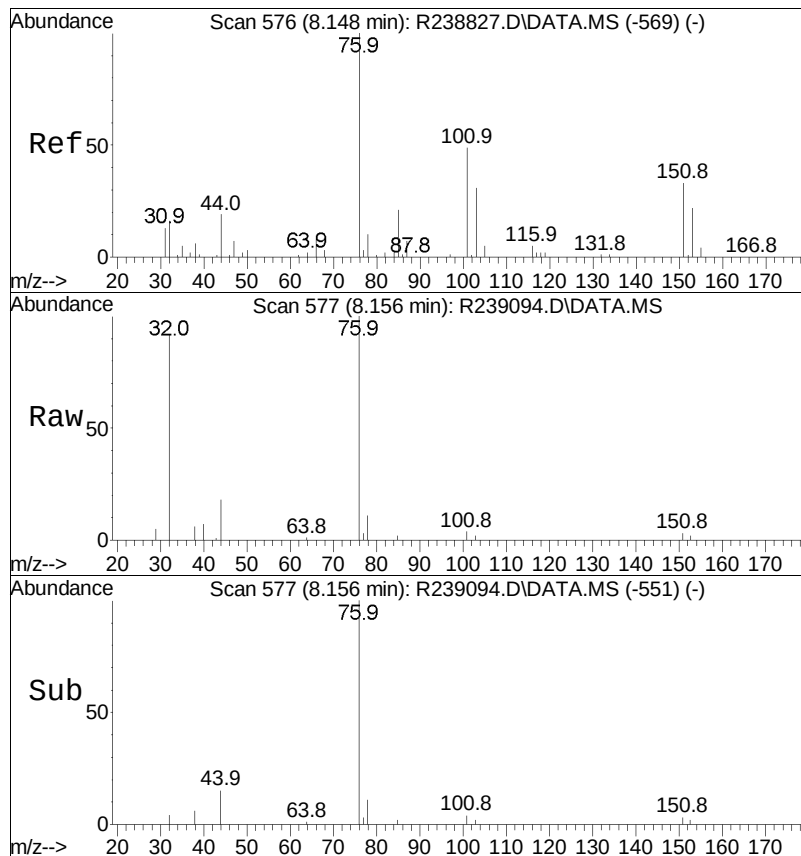




#28
 methylene chloride
 Concen: 0.14 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

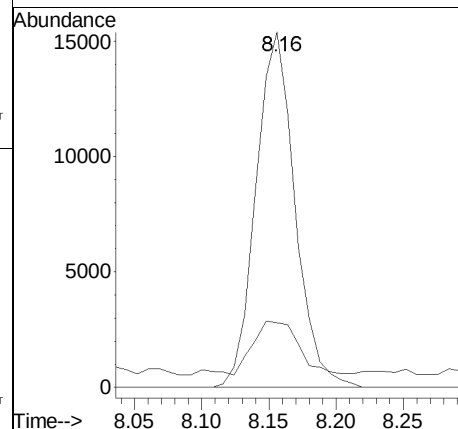
Tgt Ion	Ratio	Lower	Upper
49	100		
84	44.5	46.5	69.7#

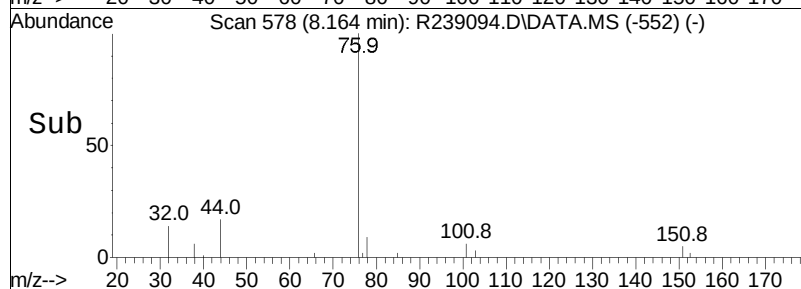
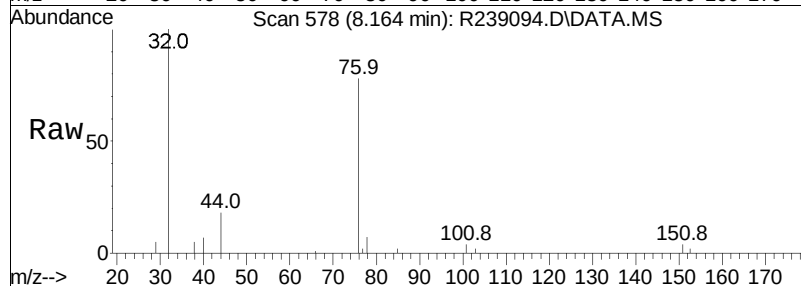
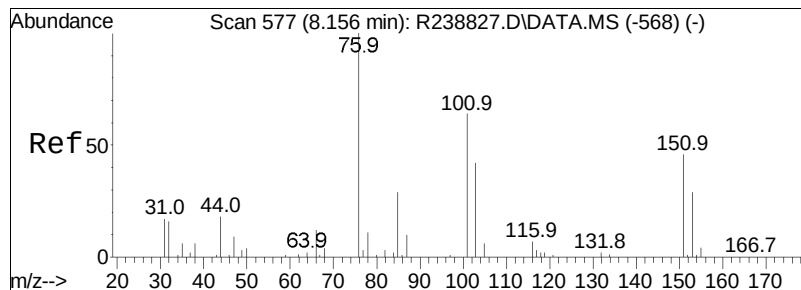




#30
carbon disulfide
Concen: 1.13 ppbV
RT: 8.16 min Scan# 577
Delta R.T. 0.008 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

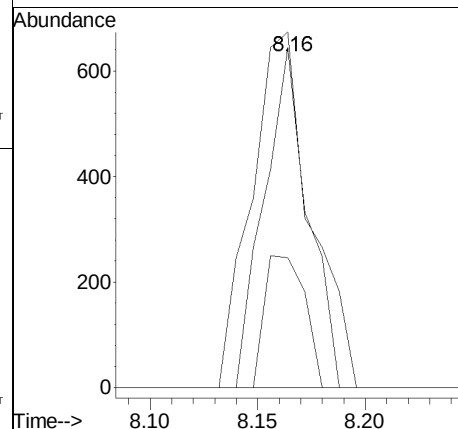
Tgt	Ion	Ratio	Lower	Upper
76	76	100		
44	44	18.2	15.8	23.6

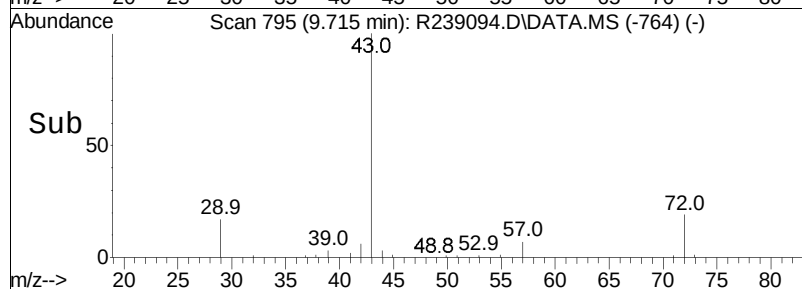
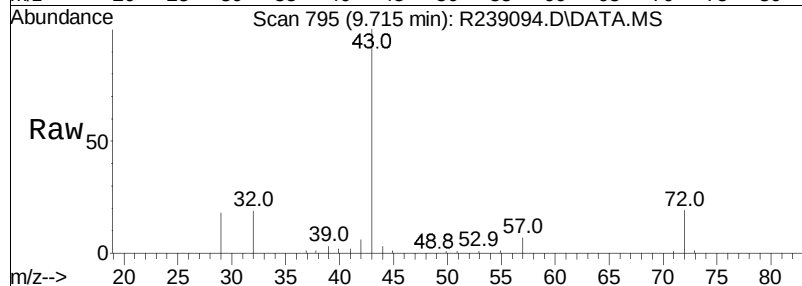
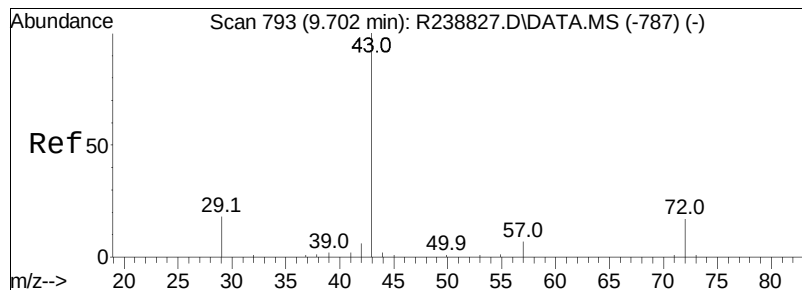




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 8.16 min Scan# 578
 Delta R.T. 0.008 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

Tgt Ion	Ratio	Lower	Upper
101	100		
85	36.5	35.8	53.6
151	95.5	57.4	86.2#





#36

2-butanone

Concen: 6.71 ppbV

RT: 9.72 min Scan# 795

Delta R.T. 0.014 min

Lab File: R239094.D

Acq: 19 Feb 2016 8:02 pm

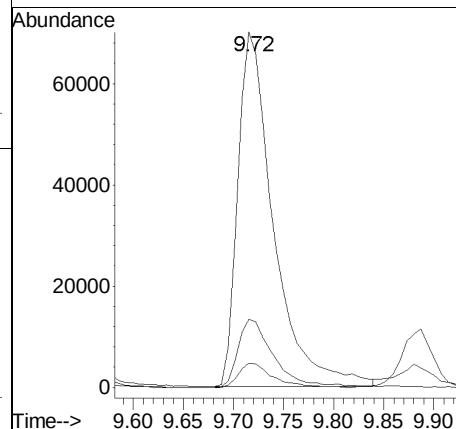
Tgt Ion: 43 Resp: 173727

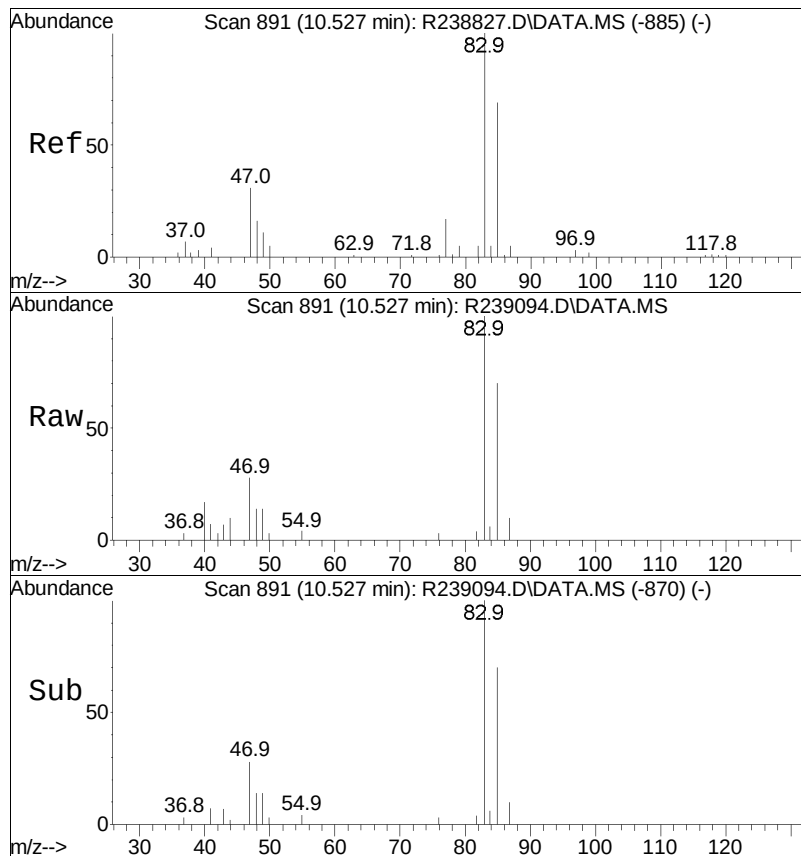
Ion Ratio Lower Upper

43 100

72 19.2 13.5 20.3

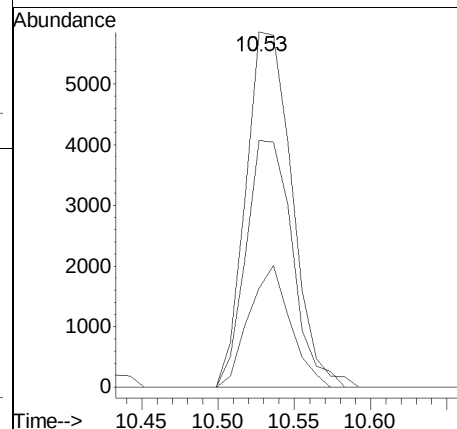
57 6.8 5.5 8.3

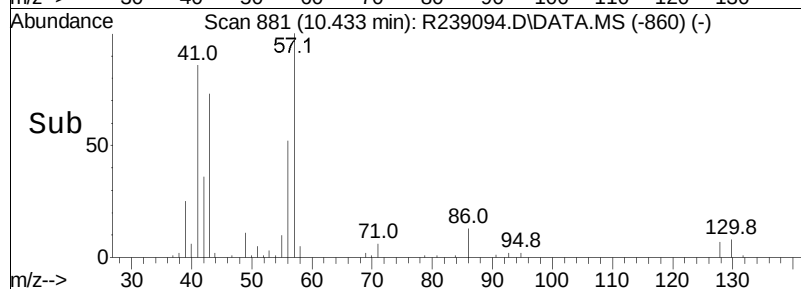
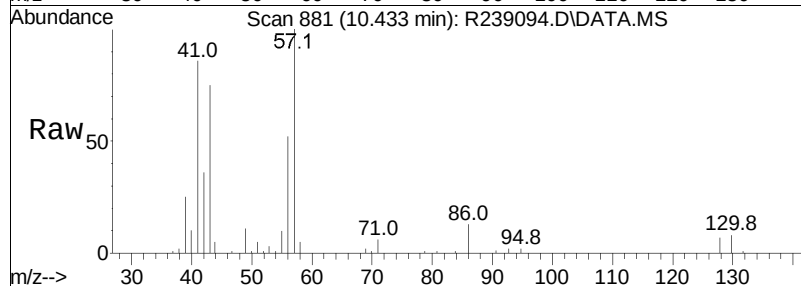
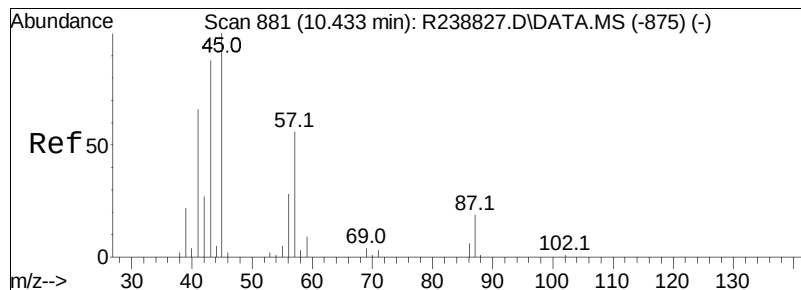




#39
chloroform
Concen: 0.62 ppbV
RT: 10.53 min Scan# 891
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

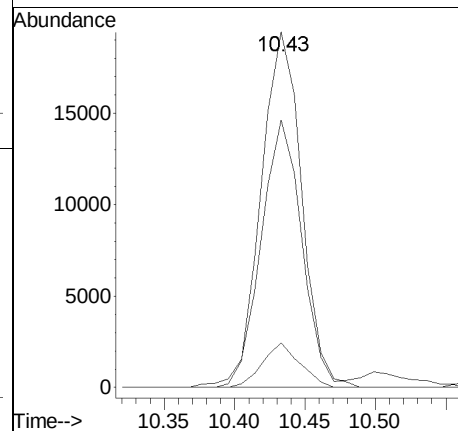
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		12376		
85	69.5	55.1	82.7		
47	27.9	24.9	37.3		

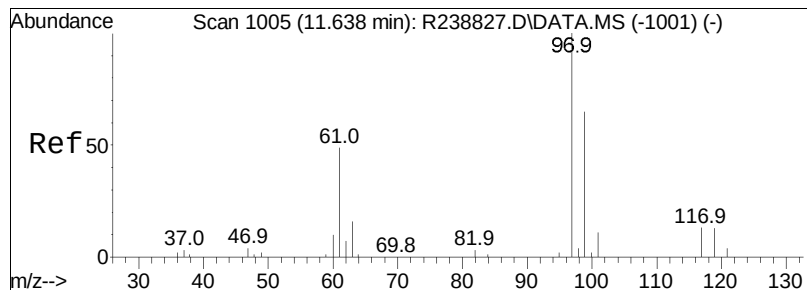




#44
hexane
Concen: 2.02 ppbV
RT: 10.43 min Scan# 881
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

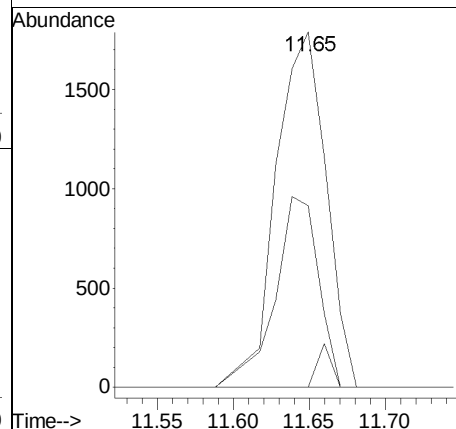
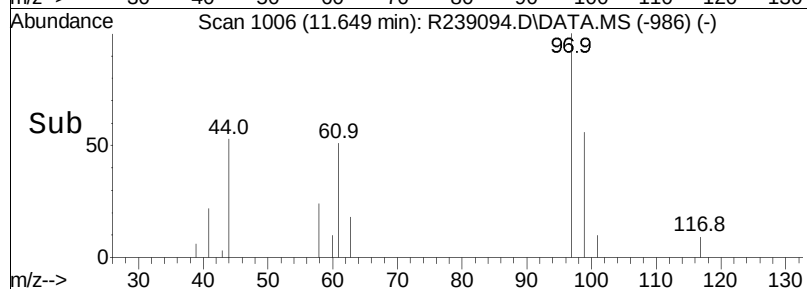
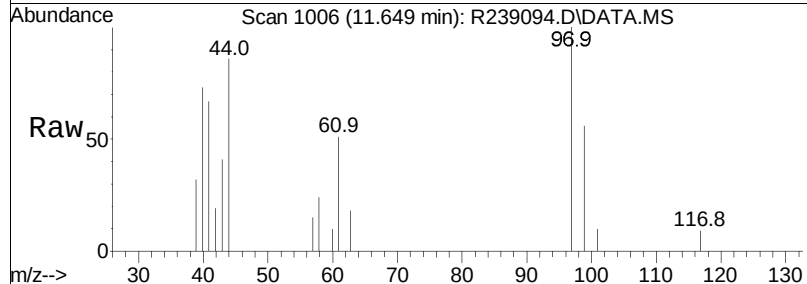
Tgt Ion	Ratio	Lower	Upper
57	100		
43	75.2	125.3	187.9#
86	12.6	9.0	13.6

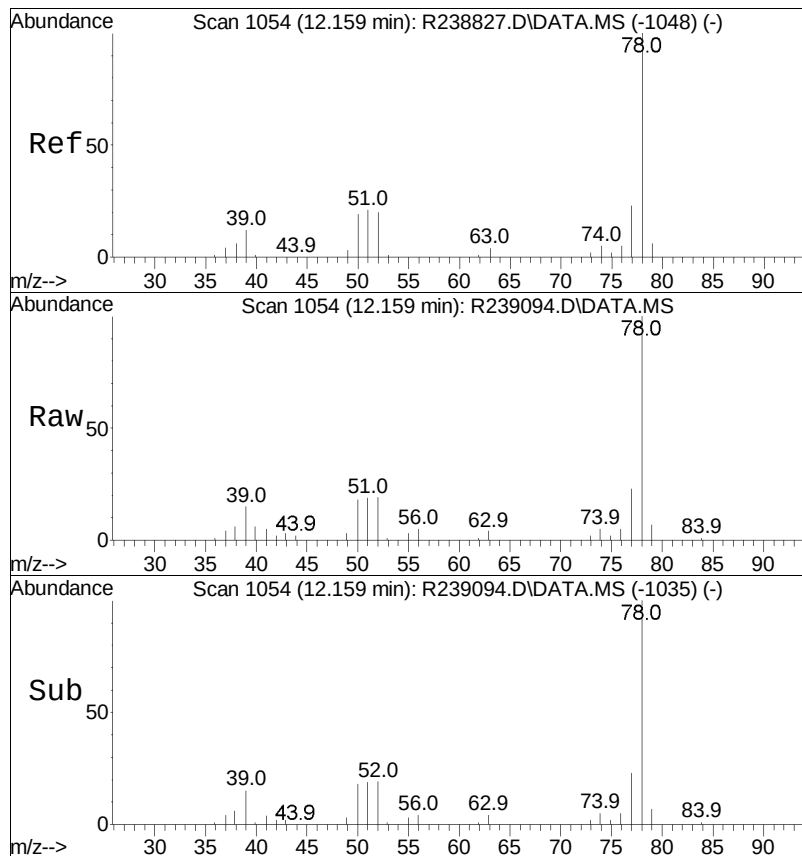




#48
 1,1,1-trichloroethane
 Concen: 0.18 ppbV
 RT: 11.65 min Scan# 1006
 Delta R.T. 0.011 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

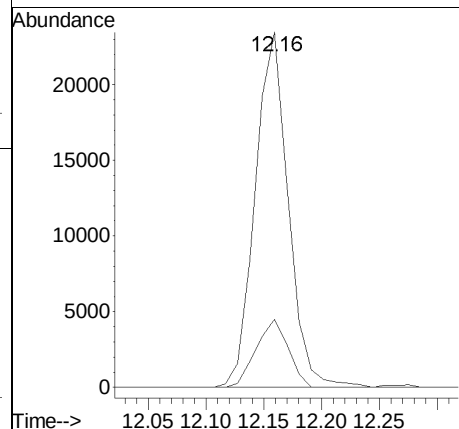
Tgt	Ion	Ratio	Lower	Upper
97	100			
61	51.1	39.4	59.0	
119	0.0	10.1	15.1	

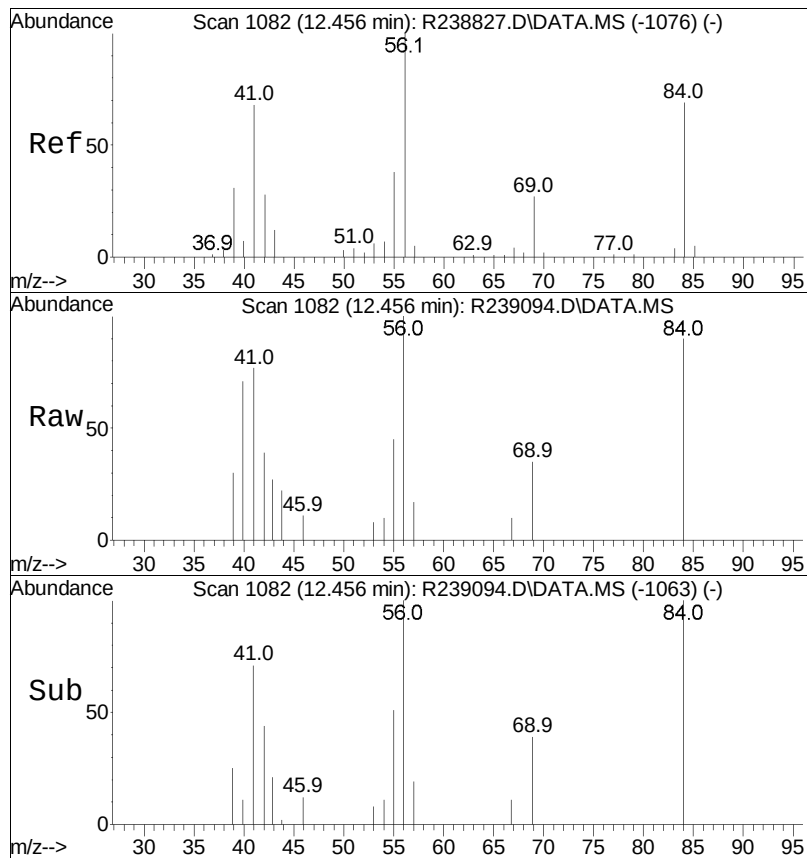




#50
benzene
Concen: 1.41 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

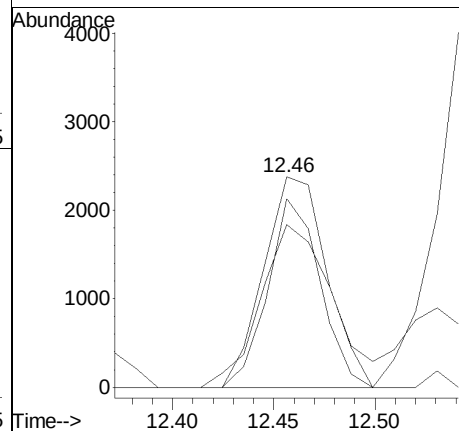
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.2	15.9	23.9

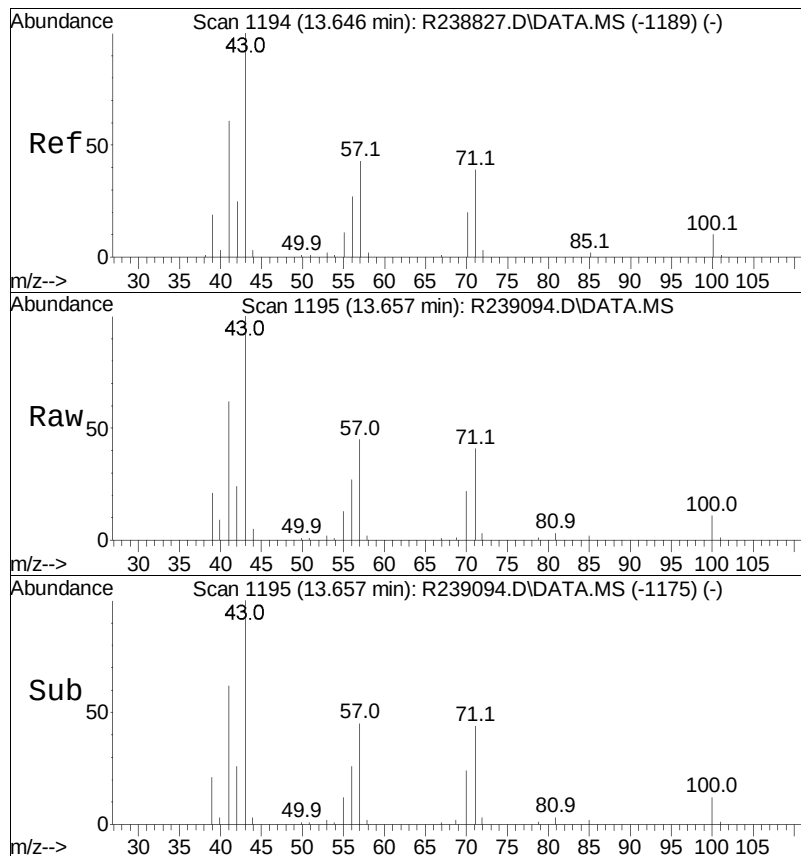




#53
cyclohexane
Concen: 0.25 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

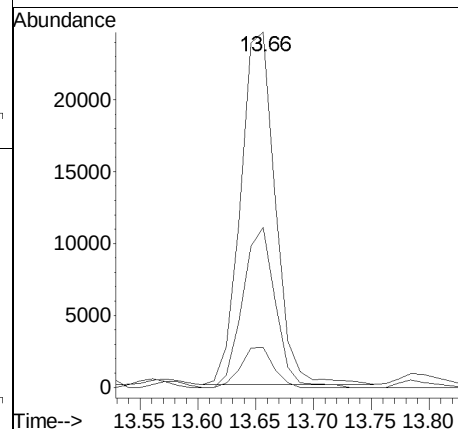
Tgt Ion	Ratio	Lower	Upper
56	100		
84	89.6	56.2	84.4#
41	77.3	54.6	82.0

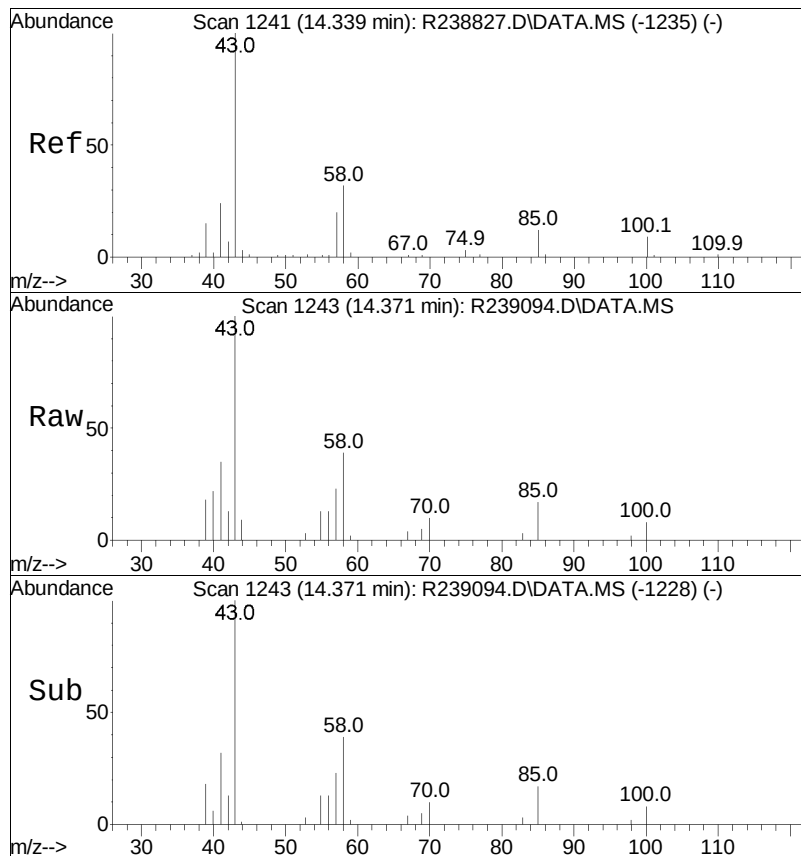




#62
heptane
Concen: 1.89 ppbV
RT: 13.66 min Scan# 1195
Delta R.T. 0.011 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

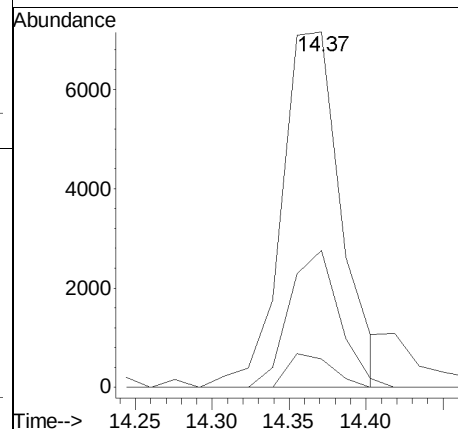
Tgt Ion	Ratio	Lower	Upper
43	100		
57	45.0	34.4	51.6
100	11.3	8.4	12.6

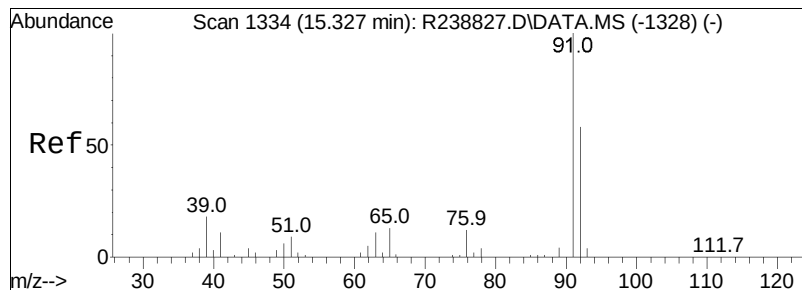




#64
 4-methyl-2-pentanone
 Concen: 0.53 ppbV m
 RT: 14.37 min Scan# 1243
 Delta R.T. 0.032 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

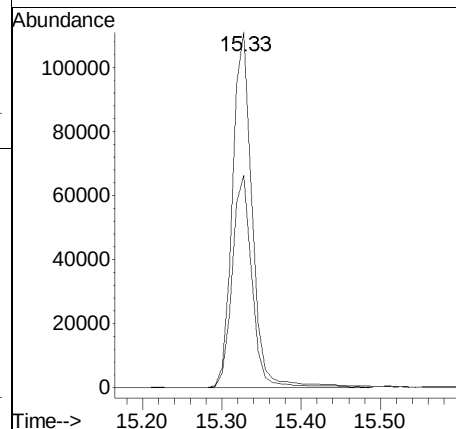
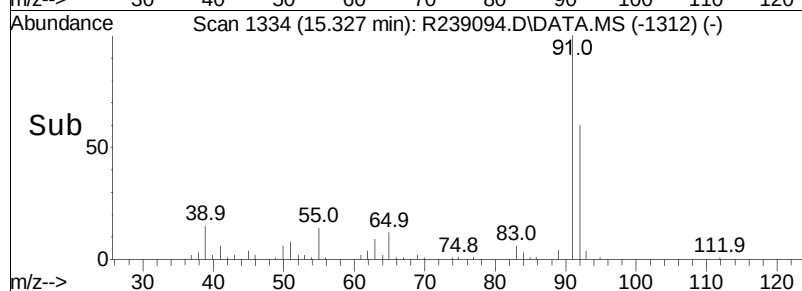
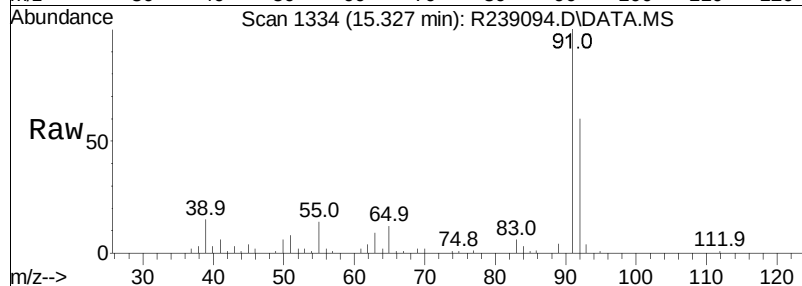
Tgt Ion:	43	Resp:	19304
Ion Ratio	Lower	Upper	
43	100		
58	38.6	25.8	38.8
100	8.0	7.1	10.7

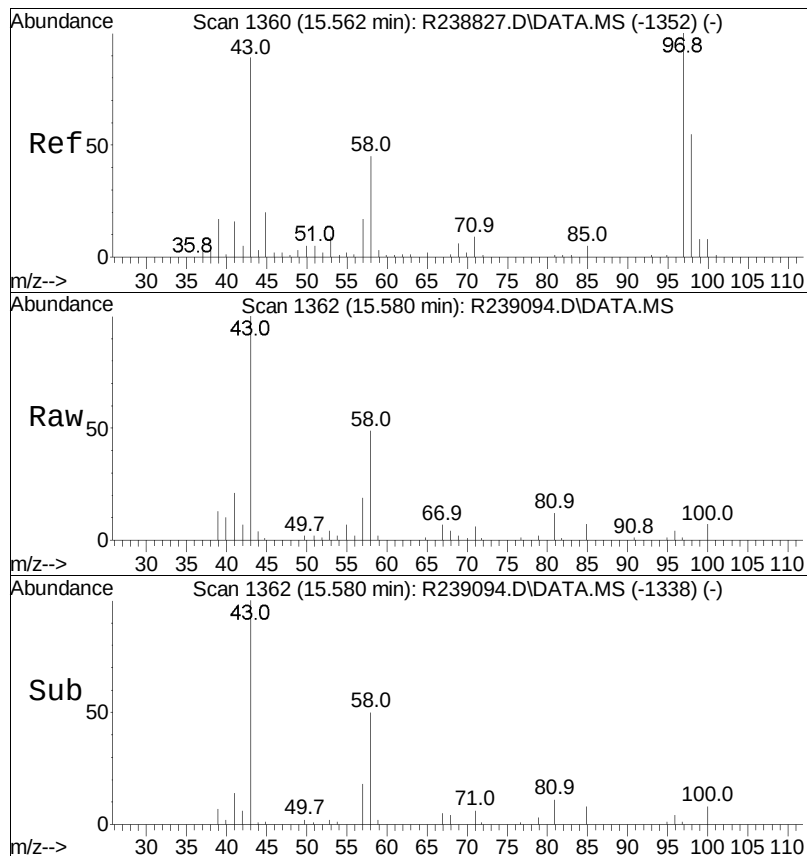




#68
toluene
Concen: 3.75 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

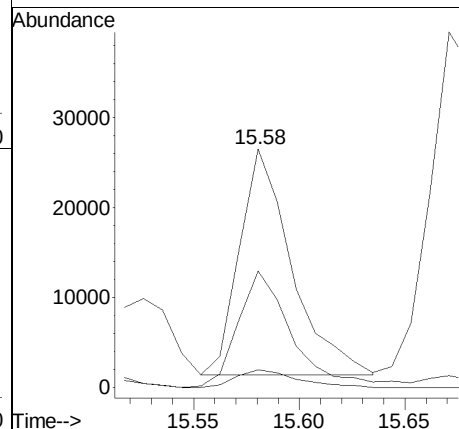
Tgt Ion: 91 Resp: 192393
Ion Ratio Lower Upper
91 100
92 59.7 46.7 70.1

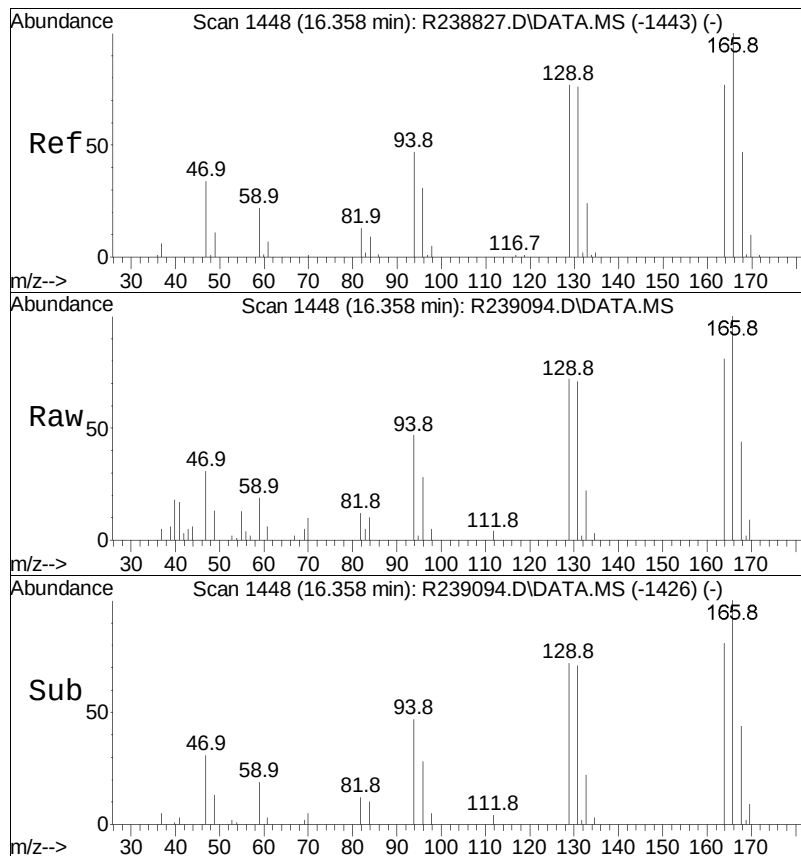




#72
 2-hexanone
 Concen: 1.09 ppbV
 RT: 15.58 min Scan# 1362
 Delta R.T. 0.018 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

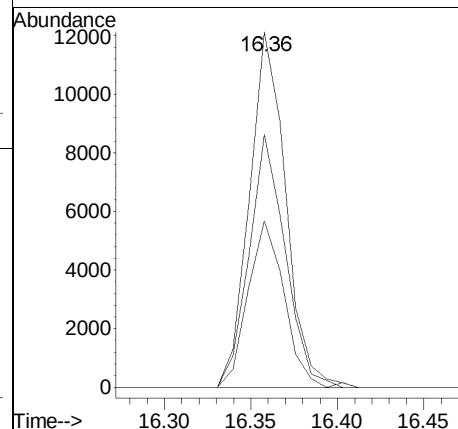
Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.8	40.2	60.2
100	7.4	7.3	10.9

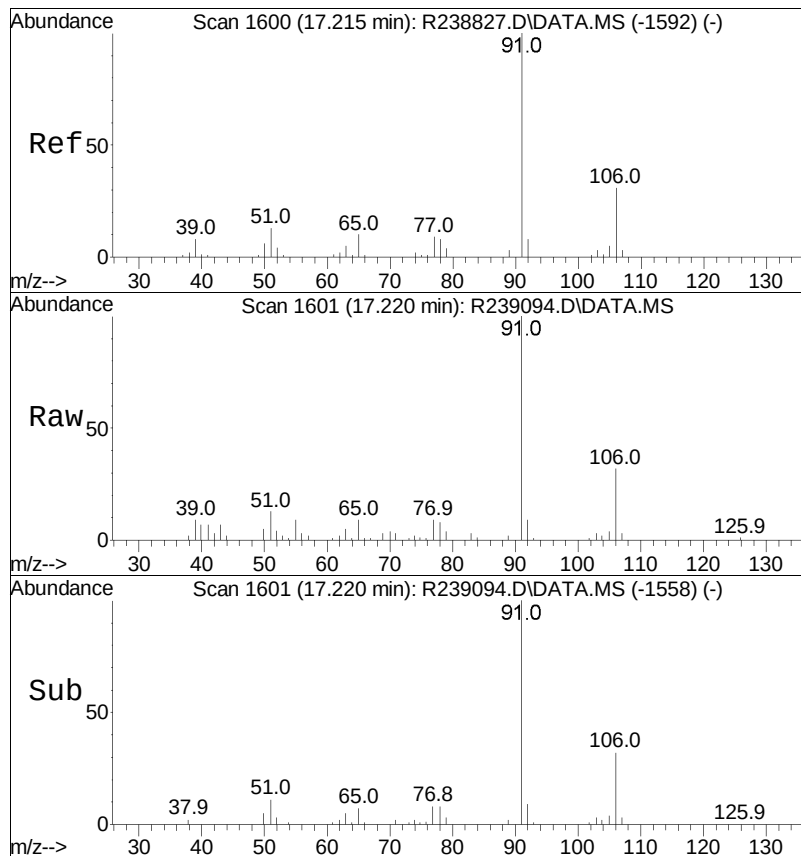




#78
 tetrachloroethene
 Concen: 0.76 ppbV
 RT: 16.36 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

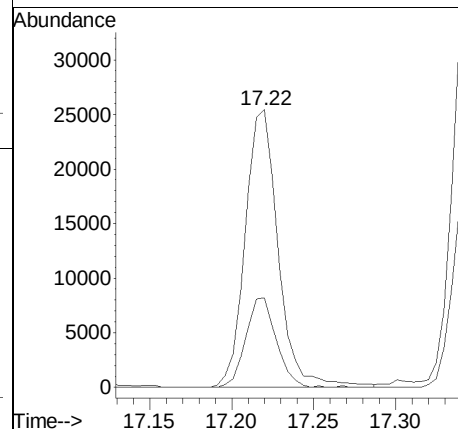
Tgt Ion	Ratio	Lower	Upper
166	100		
131	71.2	60.6	91.0
94	46.9	37.9	56.9

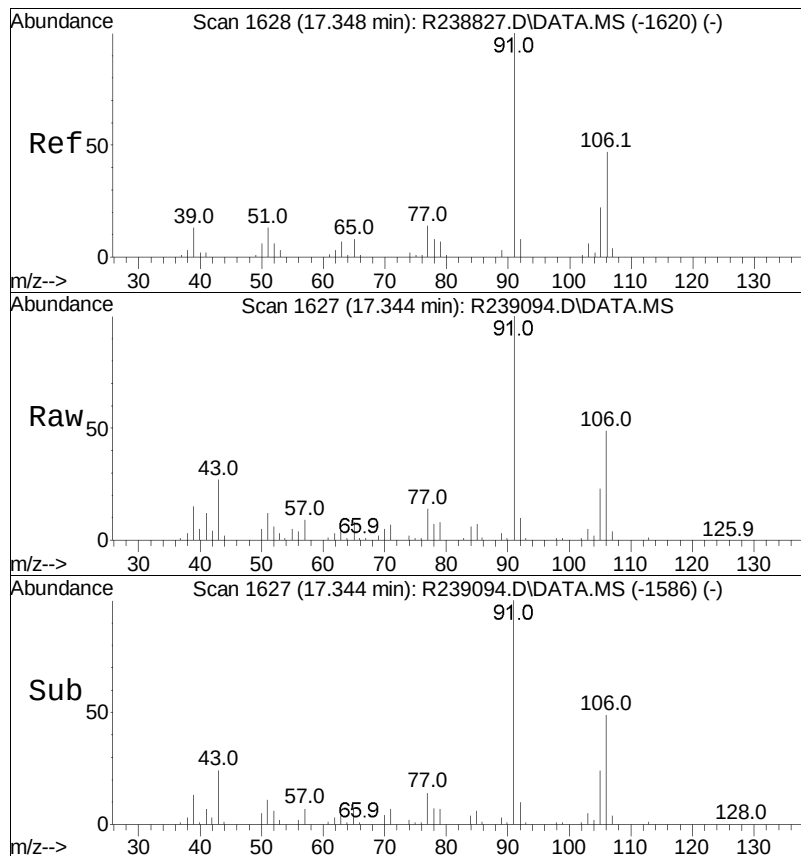




#81
ethylbenzene
Concen: 0.77 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

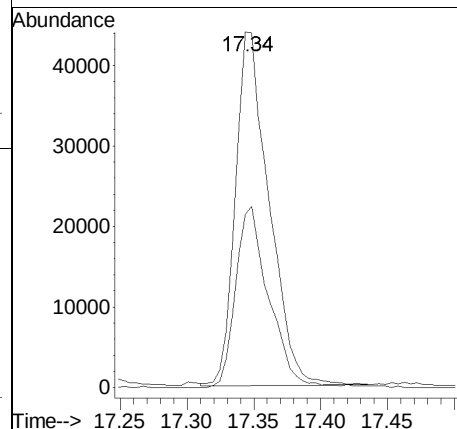
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.3	24.5	36.7

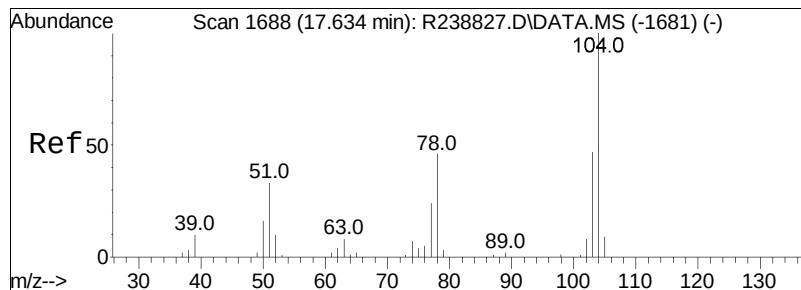




#83
 m+p-xylene
 Concen: 2.15 ppbV
 RT: 17.34 min Scan# 1627
 Delta R.T. -0.005 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

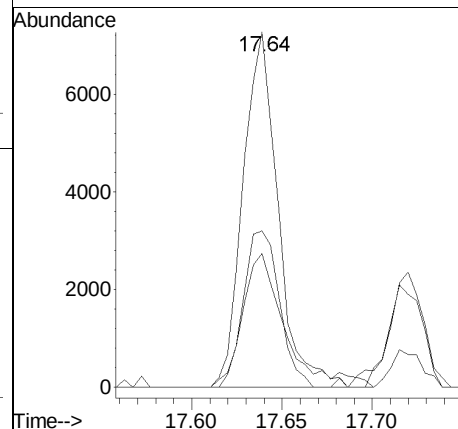
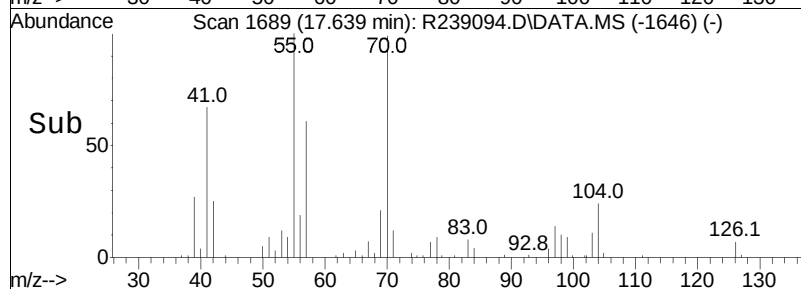
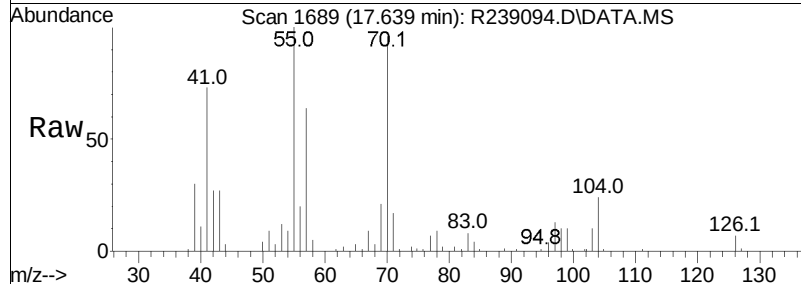
Tgt Ion:	91	Resp:	76865
Ion Ratio	Lower	Upper	
91	100		
106	48.7	37.7	56.5

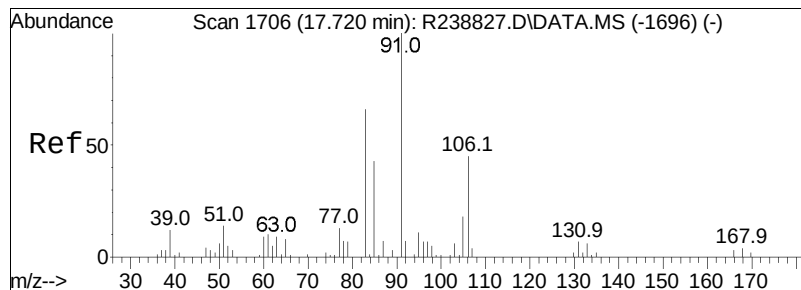




#85
styrene
Concen: 0.36 ppbV
RT: 17.64 min Scan# 1689
Delta R.T. 0.005 min
Lab File: R239094.D
Acq: 19 Feb 2016 8:02 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
103	44.1	37.6	56.4
78	37.7	36.7	55.1





#87

o-xylene

Concen: 1.04 ppbV

RT: 17.72 min Scan# 1706

Delta R.T. 0.000 min

Lab File: R239094.D

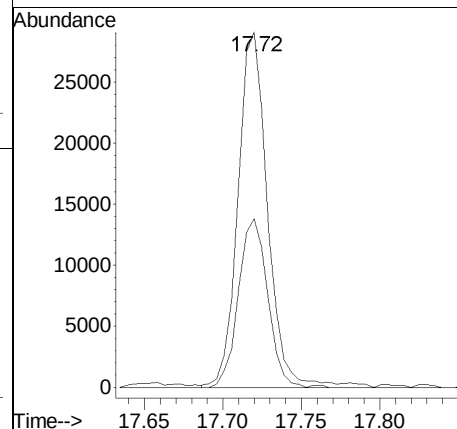
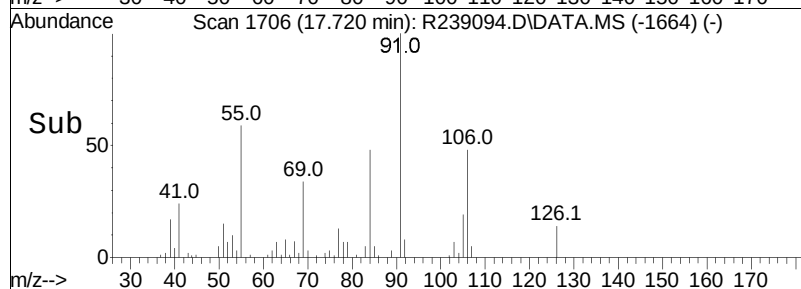
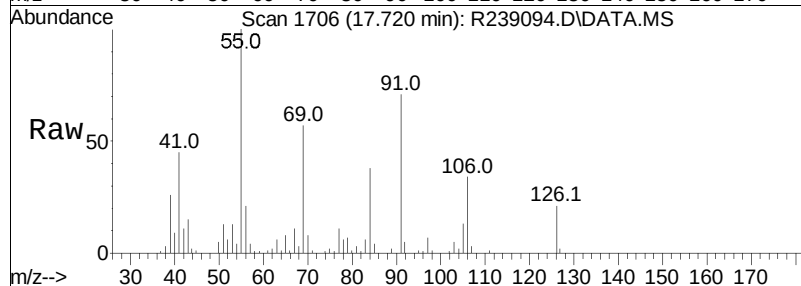
Acq: 19 Feb 2016 8:02 pm

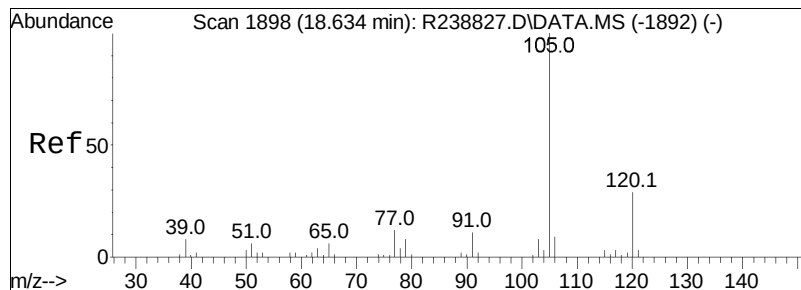
Tgt Ion: 91 Resp: 38196

Ion Ratio Lower Upper

91 100

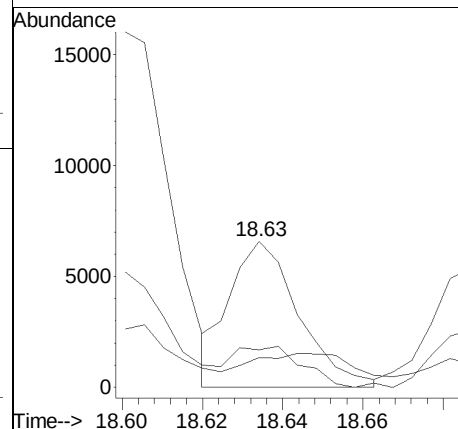
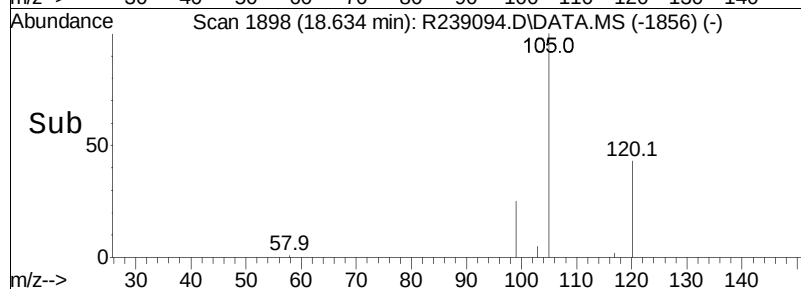
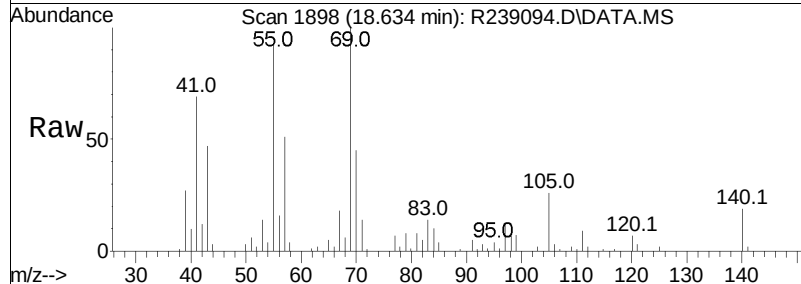
106 47.5 35.8 53.6

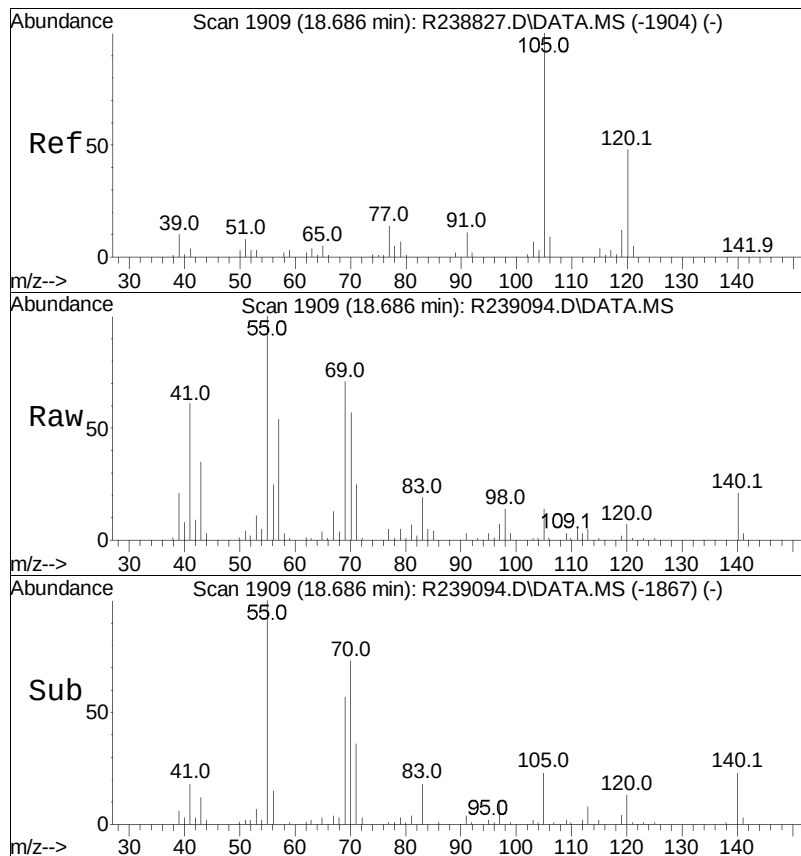




#96
 4-ethyl toluene
 Concen: 0.15 ppbV
 RT: 18.63 min Scan# 1898
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

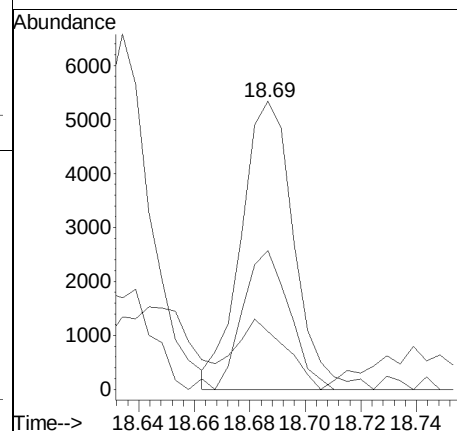
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	23.4	35.0
91	20.4	9.5	14.3

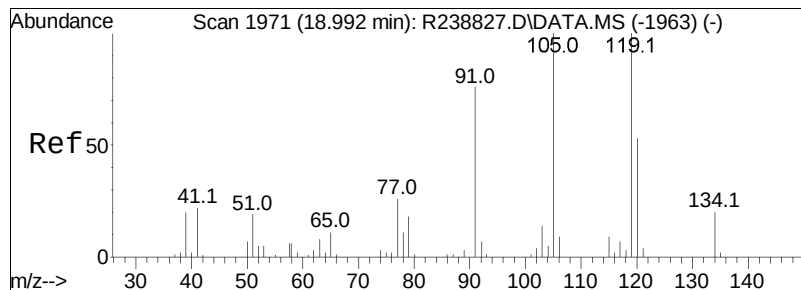




#97
 1,3,5-trimethylbenzene
 Concen: 0.16 ppbV
 RT: 18.69 min Scan# 1909
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

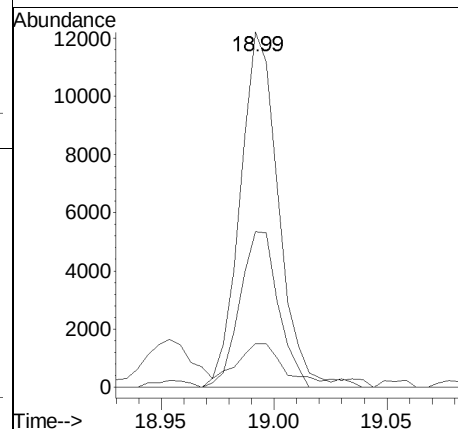
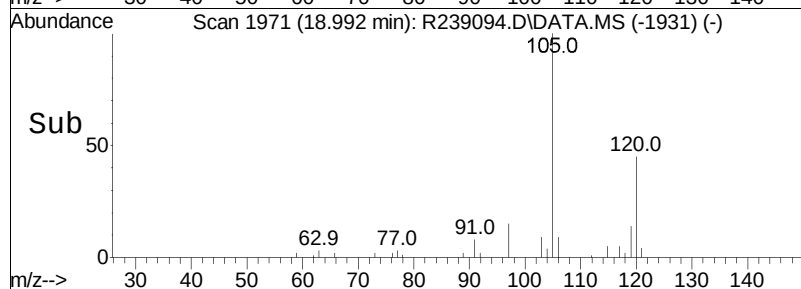
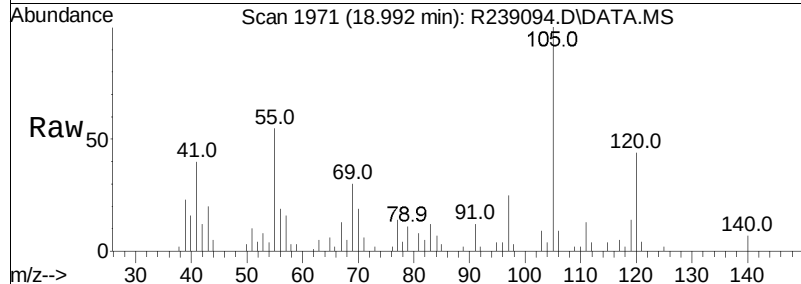
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.2	37.8	56.6
91	20.1	8.7	13.1





#99
 1,2,4-trimethylbenzene
 Concen: 0.34 ppbV
 RT: 18.99 min Scan# 1971
 Delta R.T. 0.000 min
 Lab File: R239094.D
 Acq: 19 Feb 2016 8:02 pm

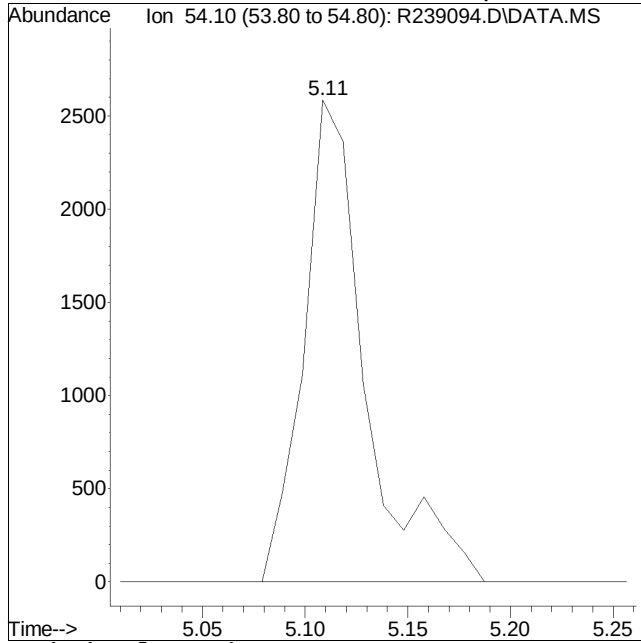
Tgt Ion:	105	Resp:	14466
Ion Ratio	Lower	Upper	
105	100		
120	43.9	42.2	63.4
91	12.4	61.1	91.7#



Manual Integration/Negative Proof Report

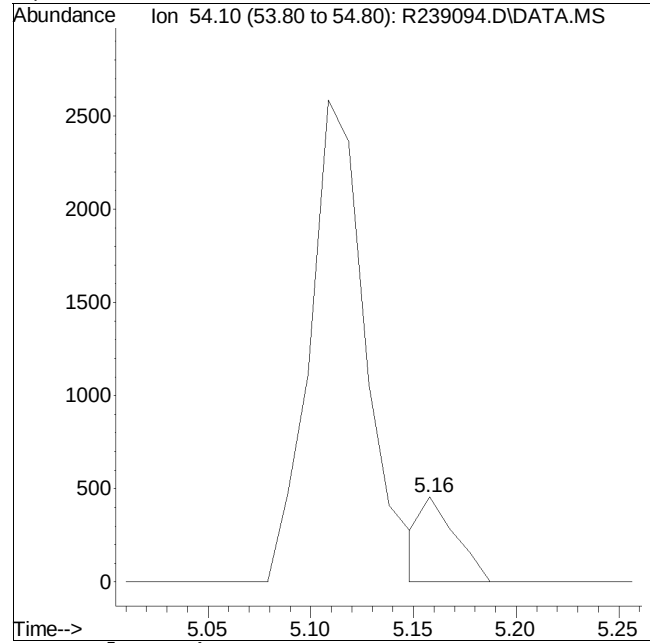
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239094.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 8:02 pm Instrument : Air Piano 2
Sample : L1604136-01,3,250,250 Quant Date : 2/19/2016 11:31 pm

Compound #10: 1,3-butadiene



Original Peak Response = 5432

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

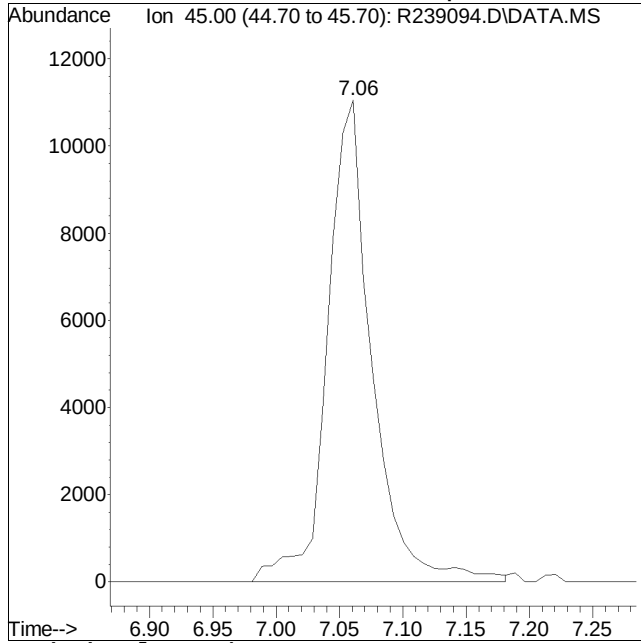


Manual Peak Response = 531 M6

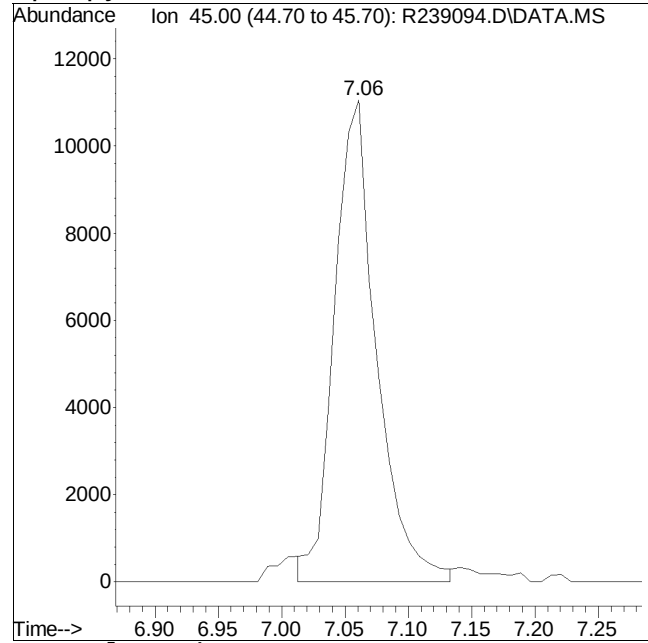
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239094.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 8:02 pm Instrument : Air Piano 2
Sample : L1604136-01,3,250,250 Quant Date : 2/19/2016 11:31 pm

Compound #22: isopropyl alcohol



Original Peak Response = 27106



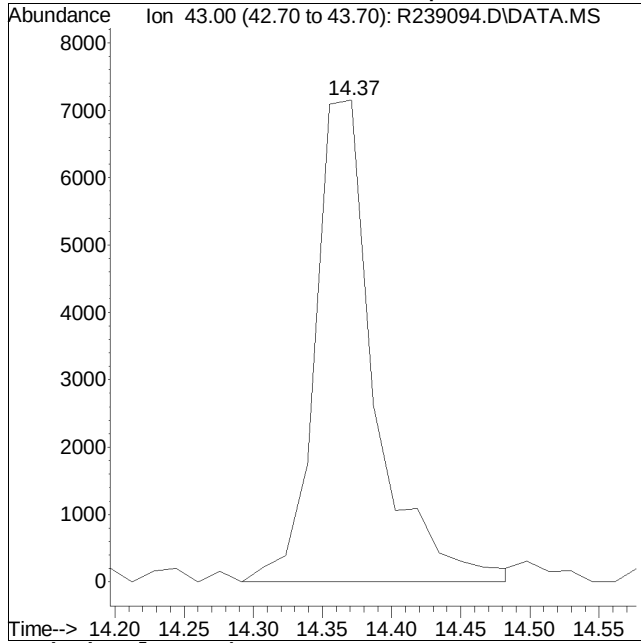
Manual Peak Response = 25561 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

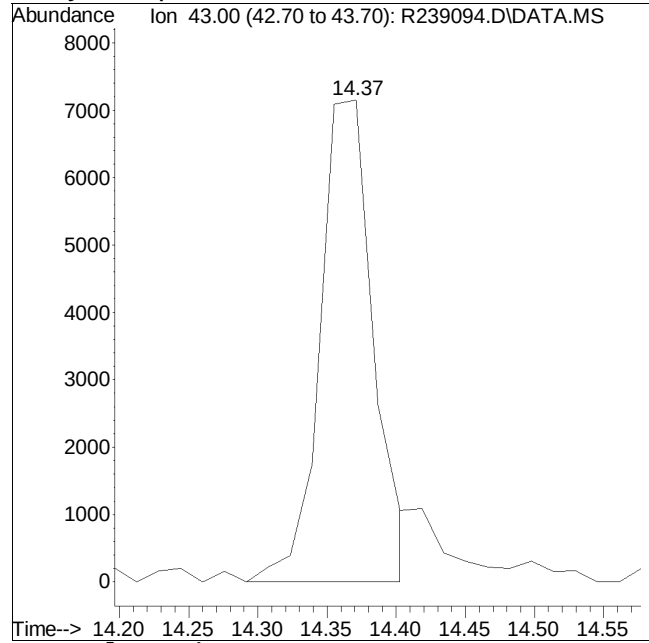
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239094.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 8:02 pm Instrument : Air Piano 2
Sample : L1604136-01,3,250,250 Quant Date : 2/19/2016 11:31 pm

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 21446

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 19304 M6

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239095.D
 Acq On : 19 Feb 2016 8:34 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-04D,3,25,250
 Misc : WG866471,ICAL12008
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 10:26:39 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	141107	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		95.85%	
43) 1,4-difluorobenzene	12.55	114	350502	10.000	ppbV	0.01
Standard Area = 368790			Recovery =		95.04%	
67) chlorobenzene-D5	16.89	54	79561	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		99.03%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42		0		N.D.	
6) chloromethane	0.00		0		N.D.	
7) Freon-114	0.00		0		N.D.	
9) vinyl chloride	0.00		0		N.D.	
10) 1,3-butadiene	5.12		0		N.D.	
13) bromomethane	0.00		0		N.D.	
14) chloroethane	0.00		0		N.D.	
15) ethanol	6.10	31	1134	0.133	ppbV	92
17) vinyl bromide	0.00		0		N.D.	
19) acetone	6.68	43	116310M6	7.036	ppbV	
21) trichlorofluoromethane	6.84		0		N.D.	
22) isopropyl alcohol	0.00		0		N.D.	d
26) 1,1-dichloroethene	0.00		0		N.D.	
27) tertiary butyl alcohol	0.00		0		N.D.	
28) methylene chloride	7.84		0		N.D.	
29) 3-chloropropene	7.97		0		N.D.	
30) carbon disulfide	8.16	76	1478	0.054	ppbV #	1
31) Freon 113	0.00		0		N.D.	
32) trans-1,2-dichloroethene	0.00		0		N.D.	
33) 1,1-dichloroethane	0.00		0		N.D.	
34) MTBE	0.00		0		N.D.	
36) 2-butanone	9.81	43	7717	0.297	ppbV #	98
37) cis-1,2-dichloroethene	0.00		0		N.D.	
38) Ethyl Acetate	10.55		0		N.D.	
39) chloroform	10.54		0		N.D.	
40) Tetrahydrofuran	0.00		0		N.D.	d
42) 1,2-dichloroethane	0.00		0		N.D.	
44) hexane	10.43	57	29399	1.492	ppbV #	40

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239095.D
 Acq On : 19 Feb 2016 8:34 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-04D,3,25,250
 Misc : WG866471,ICAL12008
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 10:26:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.00		0	N.D.		
50) benzene	12.16	78	3141	0.092	ppbV	99
52) carbon tetrachloride	0.00		0	N.D.		
53) cyclohexane	12.47	56	2734	0.130	ppbV	91
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.	d	
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d	
62) heptane	13.66	43	22672	0.810	ppbV	99
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	14.43	43	24001	0.641	ppbV #	96
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.	d	
68) toluene	15.33	91	3519920	66.164	ppbV	98
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.37		0	N.D.		
80) chlorobenzene	0.00		0	N.D.	d	
81) ethylbenzene	17.22	91	17898	0.374	ppbV	100
83) m+p-xylene	17.35	91	34193M4	0.922	ppbV	
84) bromoform	0.00		0	N.D.		
85) styrene	0.00		0	N.D.	d	
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d	
87) o-xylene	17.72	91	13880	0.364	ppbV	94
96) 4-ethyl toluene	18.62		0	N.D.		
97) 1,3,5-trimethylbenzene	18.62		0	N.D.		
99) 1,2,4-trimethylbenzene	19.01		0	N.D.		
101) Benzyl Chloride	0.00		0	N.D.		
102) 1,3-dichlorobenzene	0.00		0	N.D.		
103) 1,4-dichlorobenzene	0.00		0	N.D.		
107) 1,2-dichlorobenzene	0.00		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239095.D
 Acq On : 19 Feb 2016 8:34 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-04D,3,25,250
 Misc : WG866471,ICAL12008
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 10:26:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

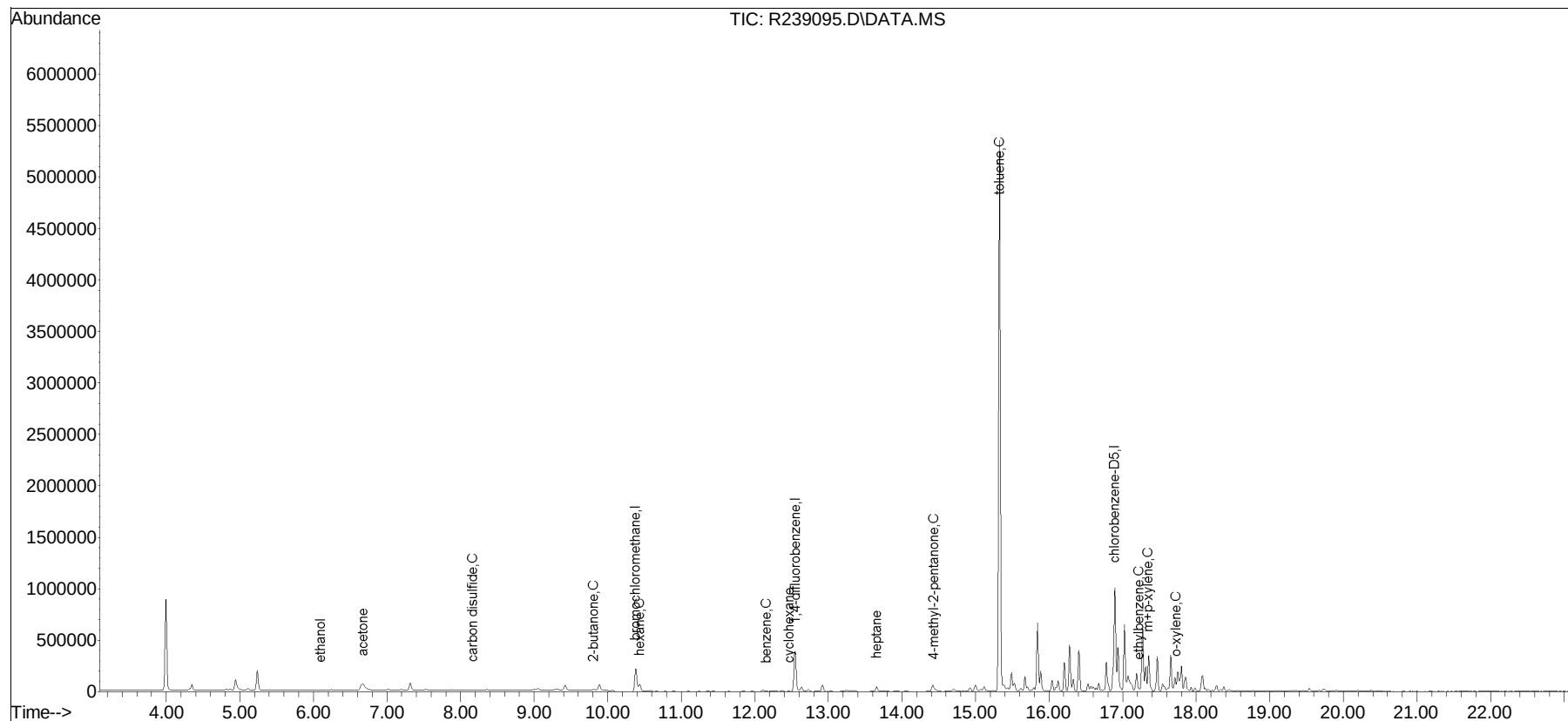
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239095.D
 Acq On : 19 Feb 2016 8:34 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-04D,3,25,250
 Misc : WG866471,ICAL12008
 ALS Vial : 4 Sample Multiplier: 1

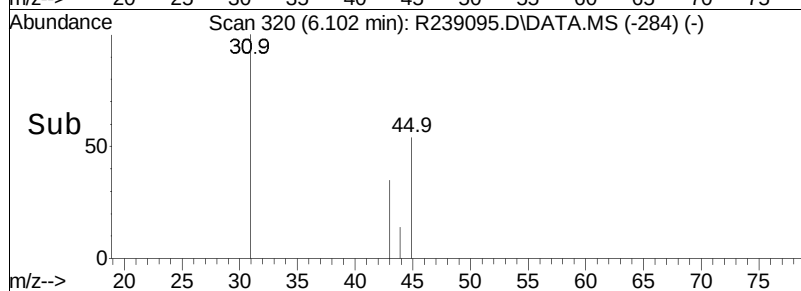
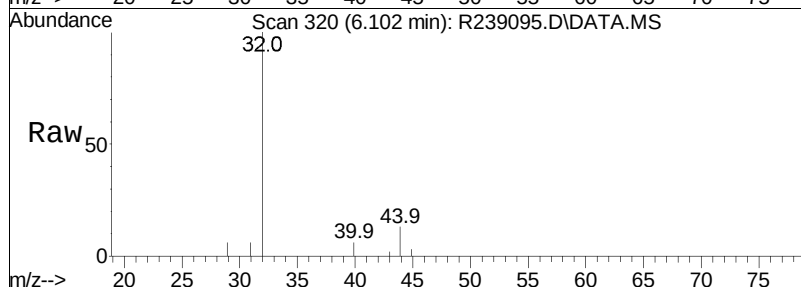
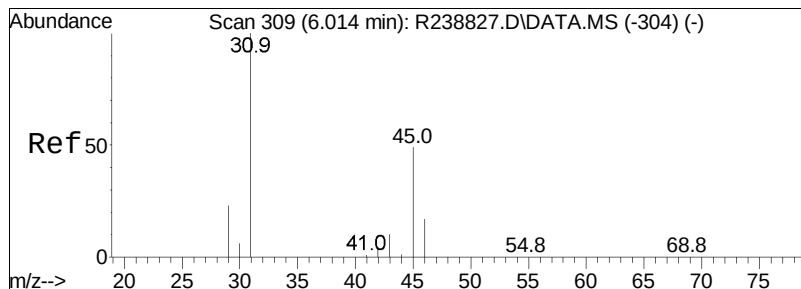
Quant Time: Feb 20 10:26:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



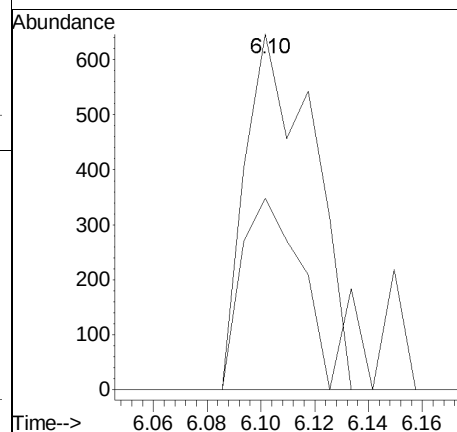
TALL160207.M Sat Feb 20 10:26:51 2016

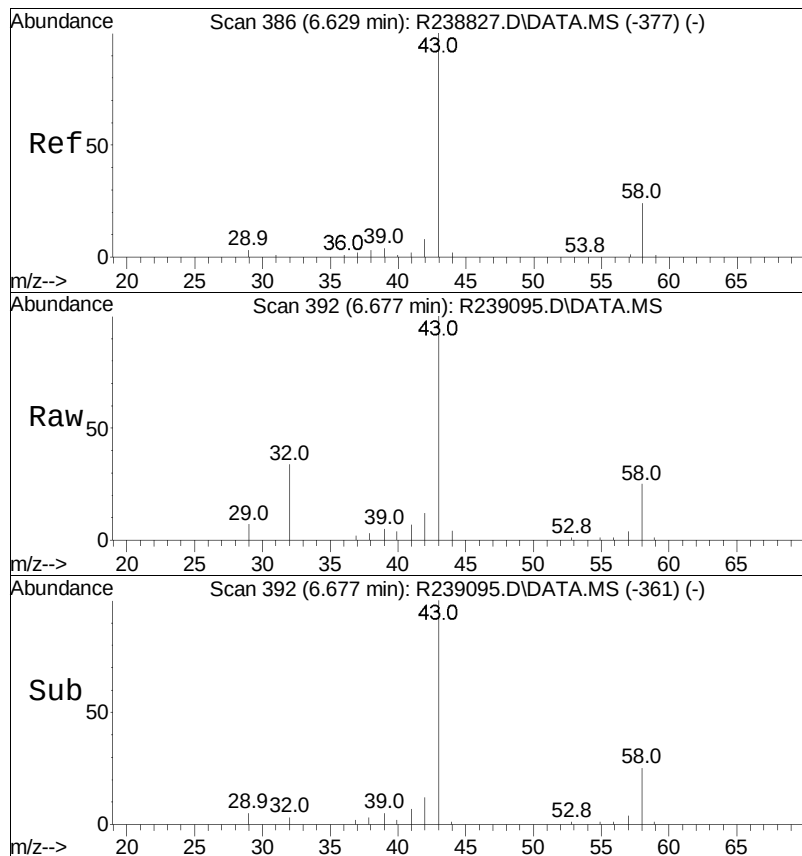
Page 4



#15
ethanol
Concen: 0.13 ppbV
RT: 6.10 min Scan# 320
Delta R.T. 0.088 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

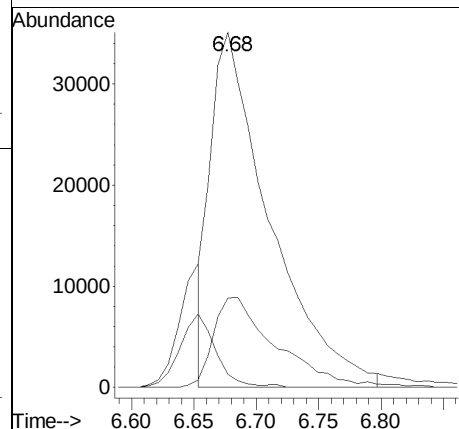
Tgt Ion: 31 Resp: 1134
Ion Ratio Lower Upper
31 100
45 53.8 38.7 58.1

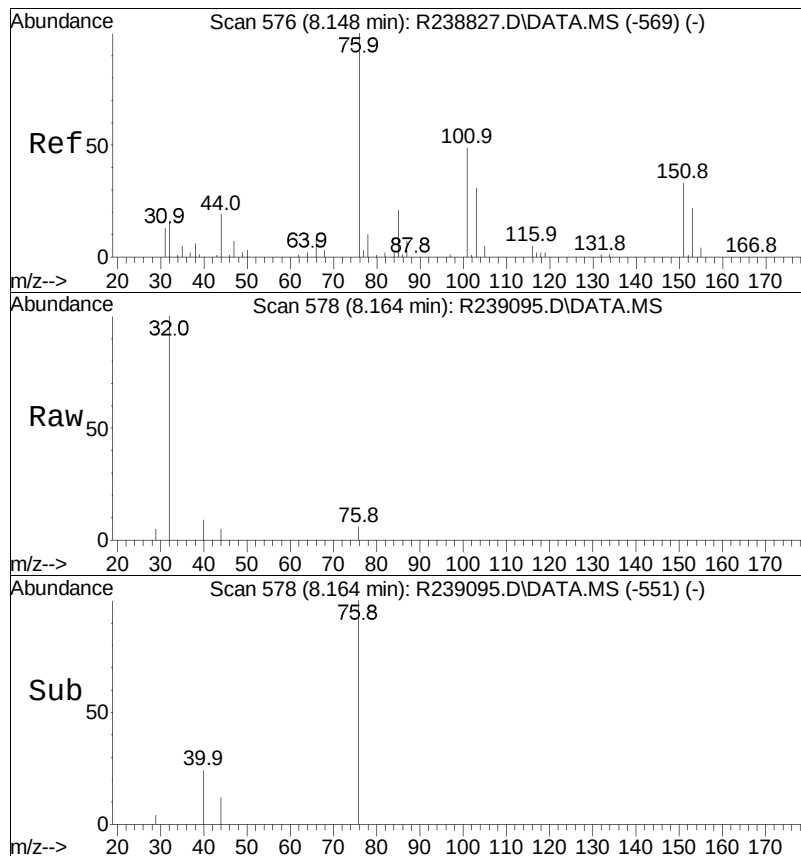




#19
acetone
Concen: 7.04 ppbV m
RT: 6.68 min Scan# 392
Delta R.T. 0.048 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

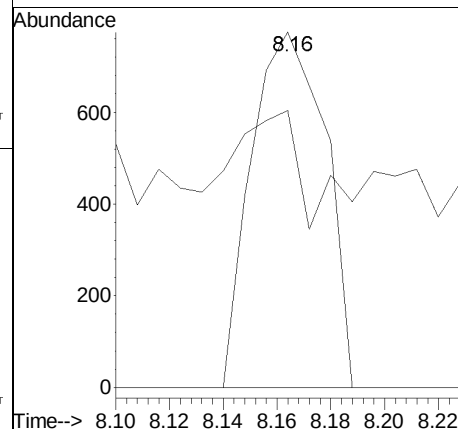
Tgt Ion:	43	Resp:	116310
Ion Ratio	Lower	Upper	
43	100		
58	25.2	19.2	28.8
57	3.7	0.6	1.0#

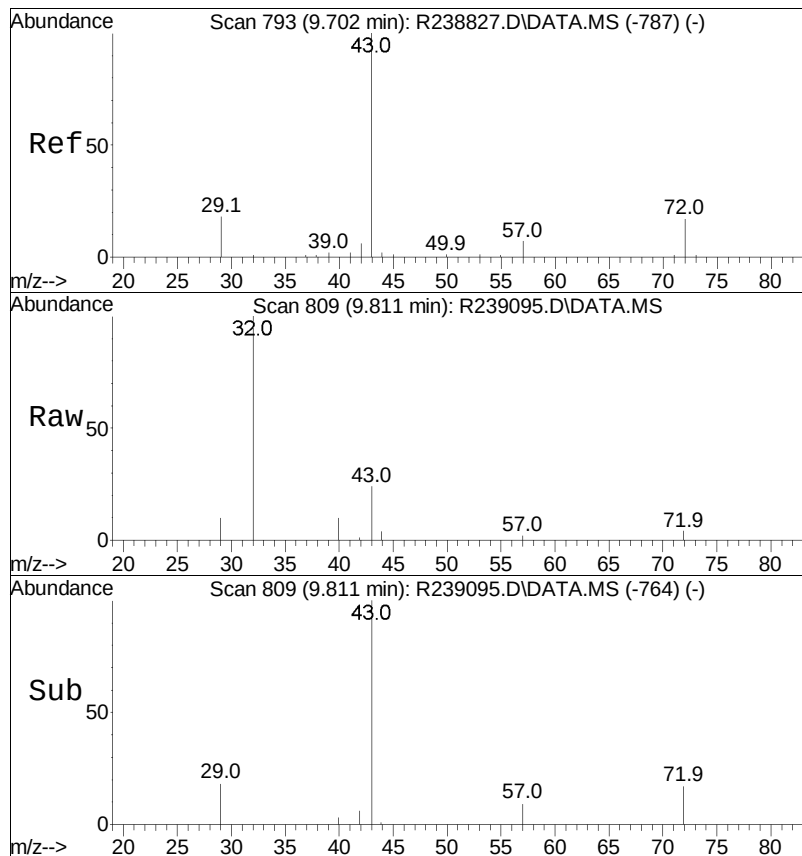




#30
 carbon disulfide
 Concen: 0.05 ppbV
 RT: 8.16 min Scan# 578
 Delta R.T. 0.016 min
 Lab File: R239095.D
 Acq: 19 Feb 2016 8:34 pm

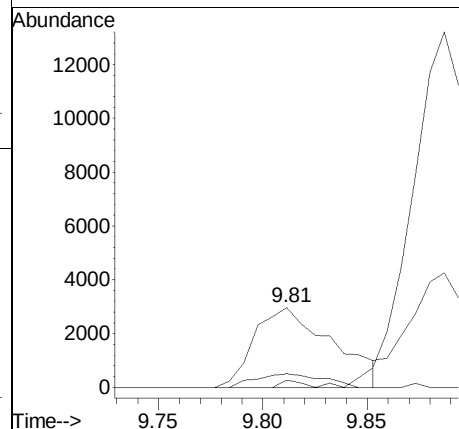
Tgt	Ion	Resp	Lower	Upper
76	100	1478		
44	77.9	15.8	23.6#	

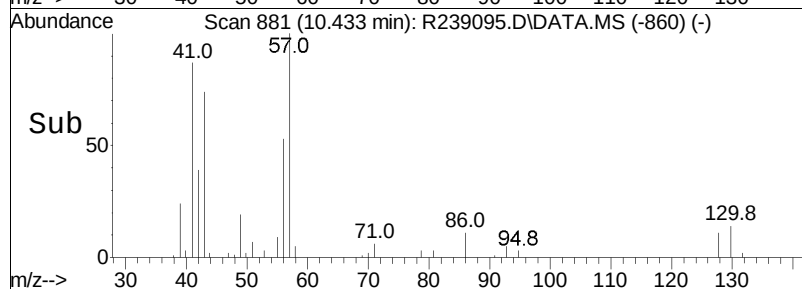
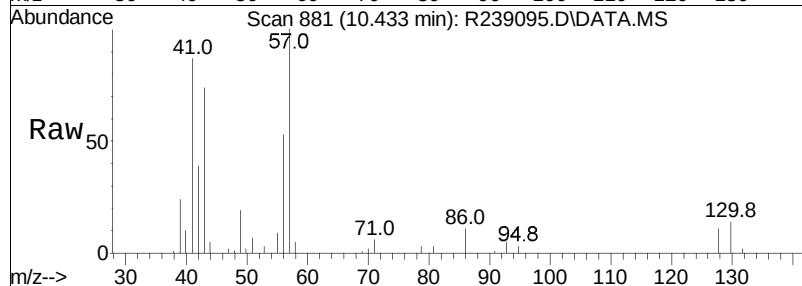
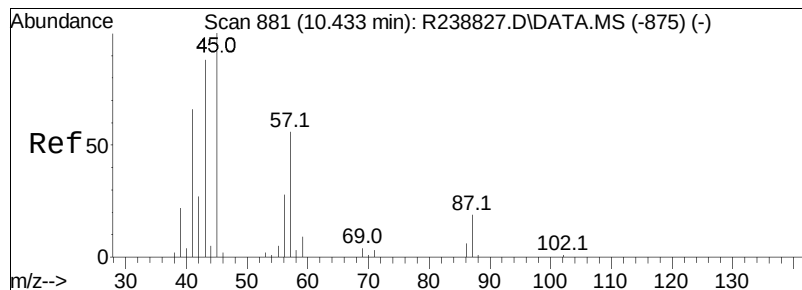




#36
 2-butanone
 Concen: 0.30 ppbV
 RT: 9.81 min Scan# 809
 Delta R.T. 0.110 min
 Lab File: R239095.D
 Acq: 19 Feb 2016 8:34 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
72	17.1	13.5	20.3
57	9.1	5.5	8.3





#44

hexane

Concen: 1.49 ppbV

RT: 10.43 min Scan# 881

Delta R.T. 0.000 min

Lab File: R239095.D

Acq: 19 Feb 2016 8:34 pm

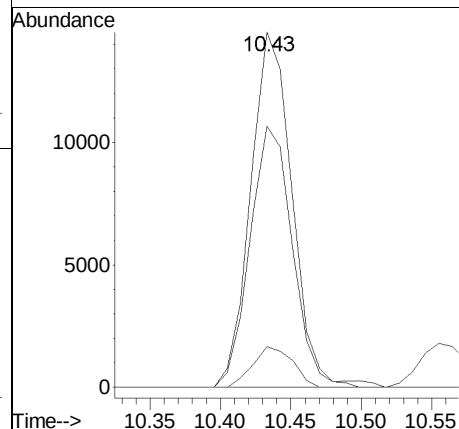
Tgt Ion: 57 Resp: 29399

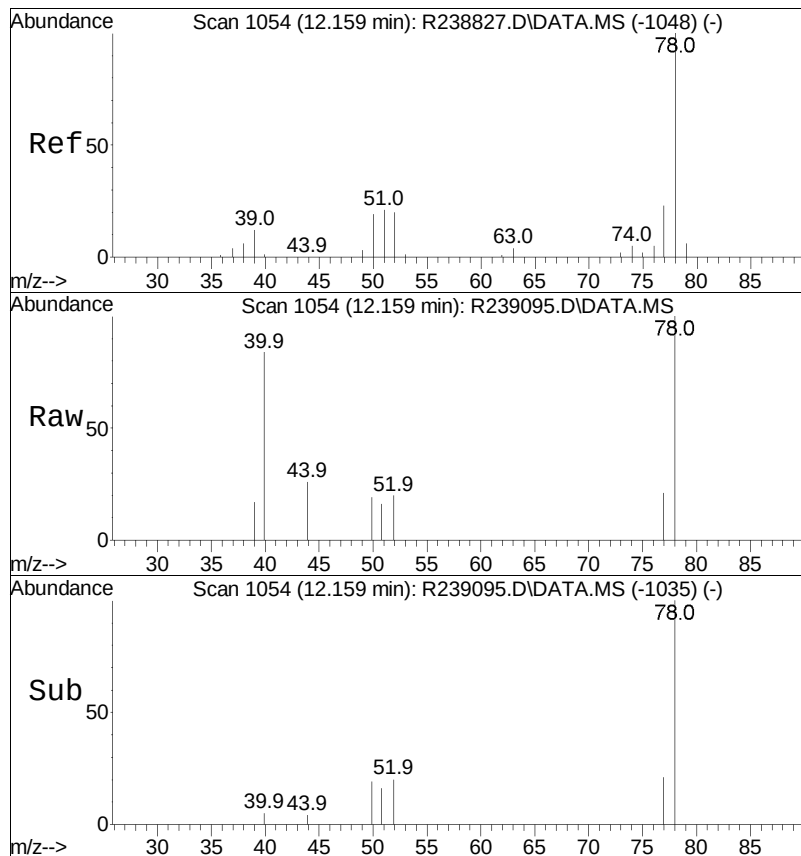
Ion Ratio Lower Upper

57 100

43 73.5 125.3 187.9#

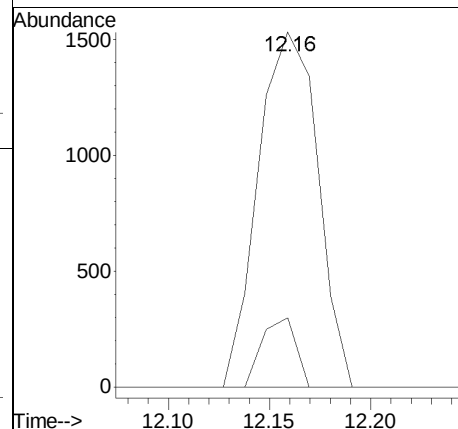
86 11.5 9.0 13.6

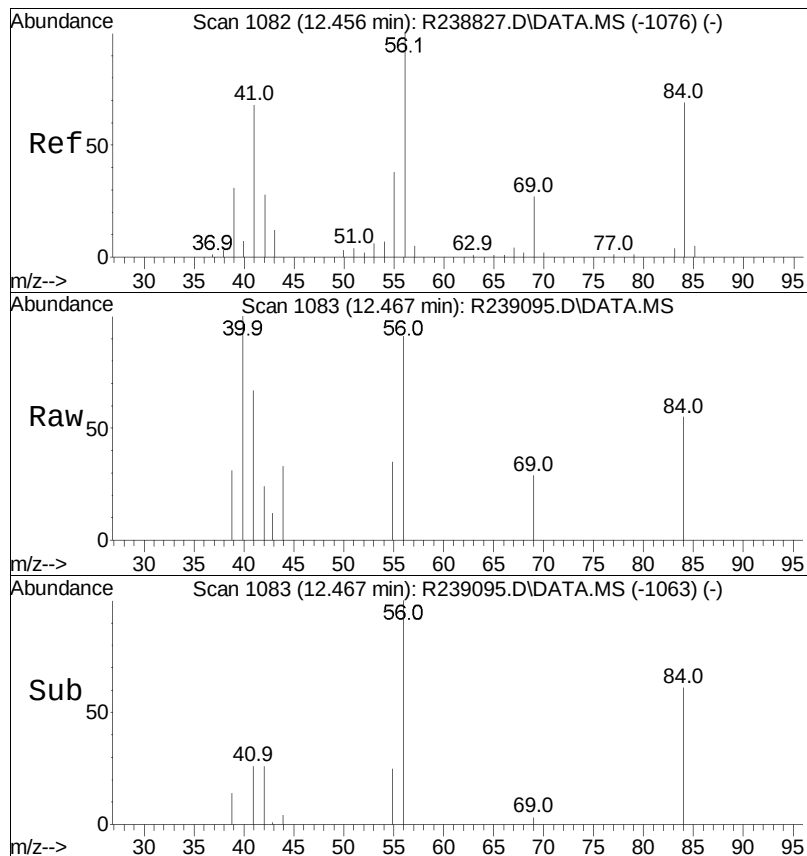




#50
benzene
Concen: 0.09 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

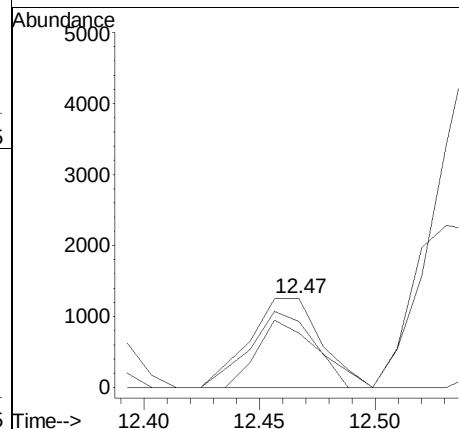
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	19.6	15.9	23.9	

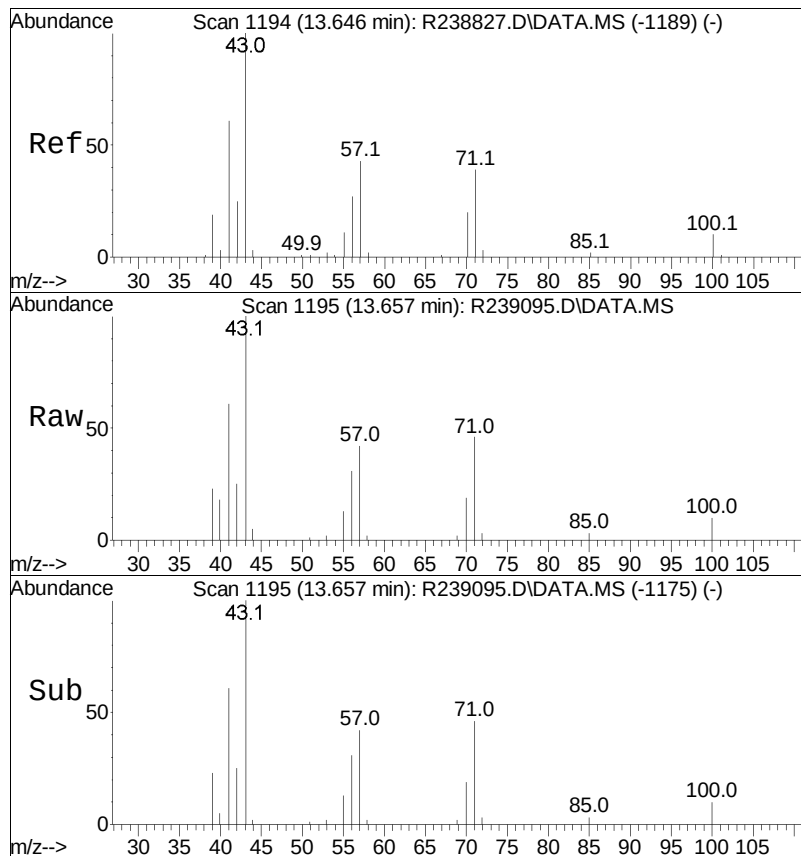




#53
cyclohexane
Concen: 0.13 ppbV
RT: 12.47 min Scan# 1083
Delta R.T. 0.011 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

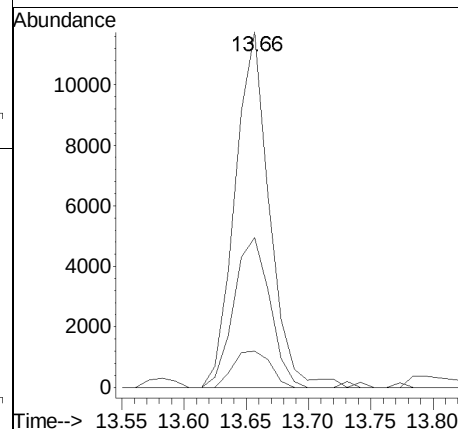
Tgt	Ion:	56	Resp:	2734
Ion	Ratio	Lower	Upper	
56	100			
84	60.9	56.2	84.4	
41	74.0	54.6	82.0	

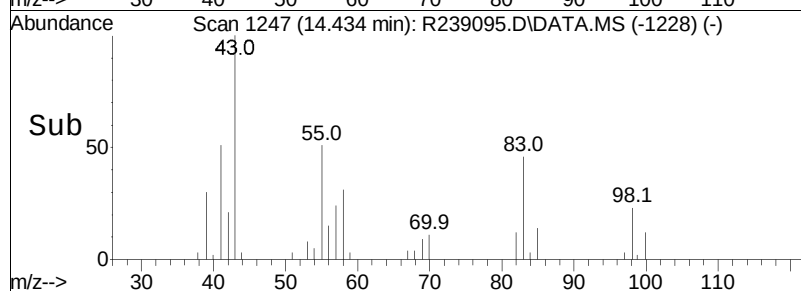
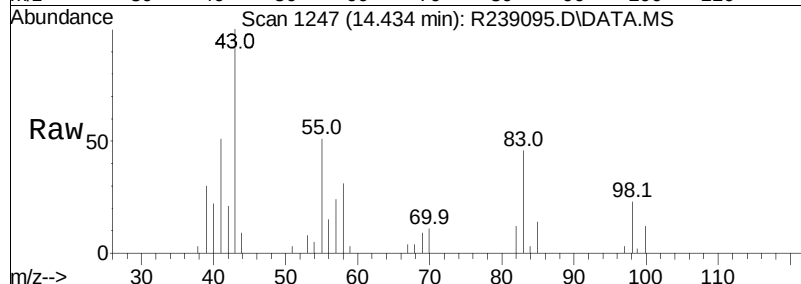
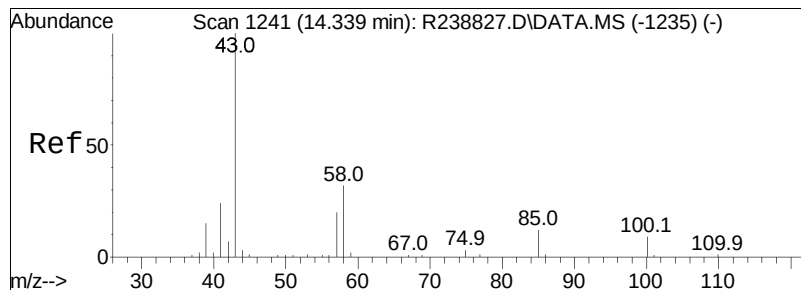




#62
heptane
Concen: 0.81 ppbV
RT: 13.66 min Scan# 1195
Delta R.T. 0.011 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

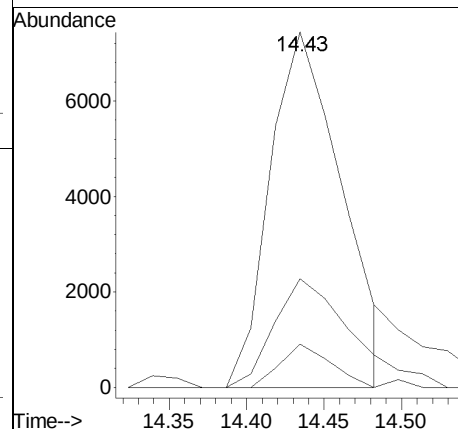
Tgt Ion	Ratio	Lower	Upper
43	100		
57	42.1	34.4	51.6
100	10.2	8.4	12.6

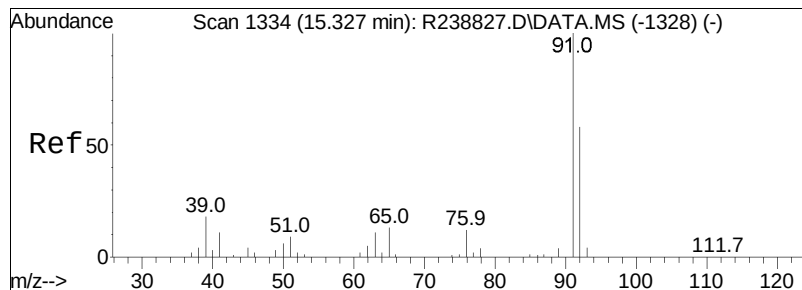




#64
 4-methyl-2-pentanone
 Concen: 0.64 ppbV
 RT: 14.43 min Scan# 1247
 Delta R.T. 0.095 min
 Lab File: R239095.D
 Acq: 19 Feb 2016 8:34 pm

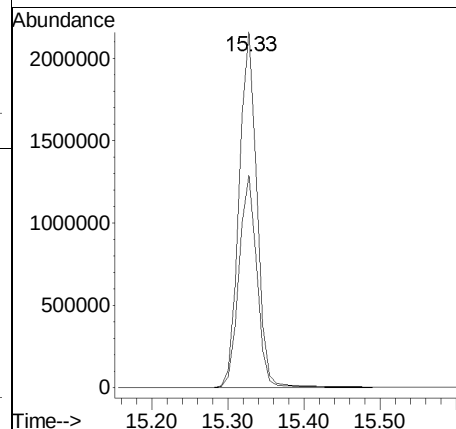
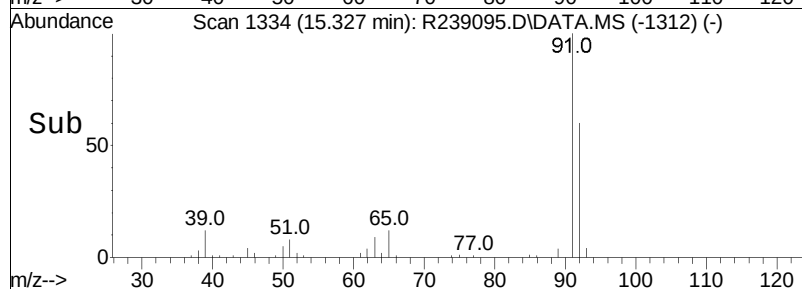
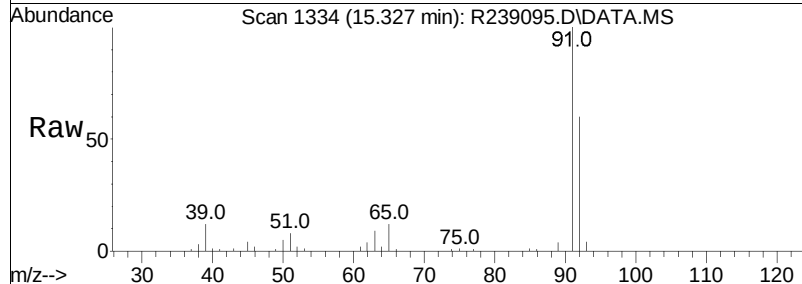
Tgt Ion:	43	58	100	Ratio	100	Lower	Upper
Resp:	24001						
		30.6	12.2			25.8	10.7#

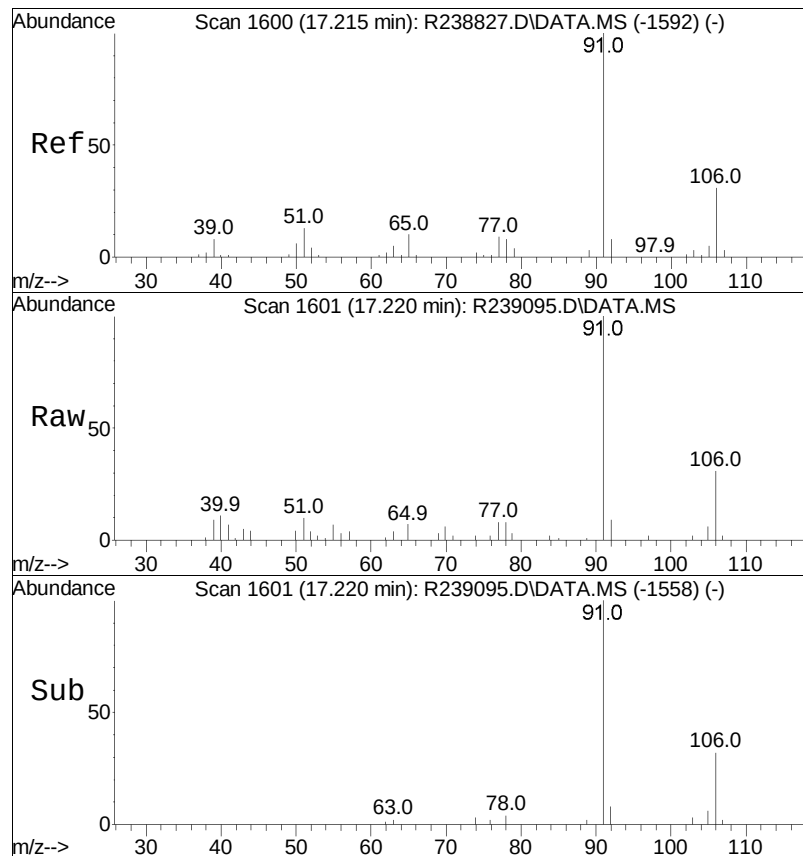




#68
toluene
Concen: 66.16 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

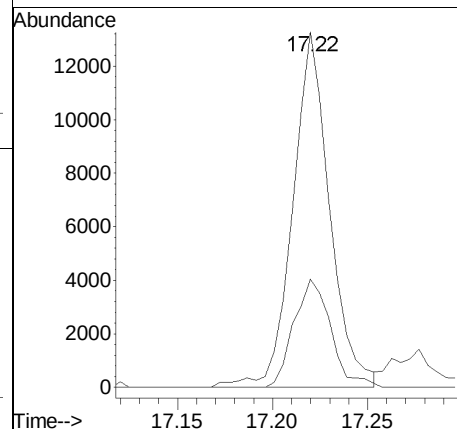
Tgt Ion: 91 Resp: 3519920
Ion Ratio Lower Upper
91 100
92 59.7 46.7 70.1

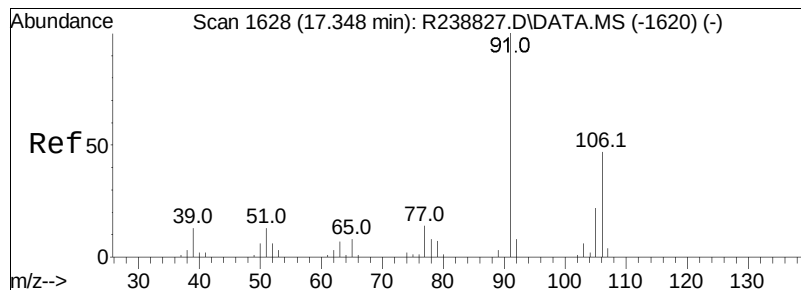




#81
ethylbenzene
Concen: 0.37 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239095.D
Acq: 19 Feb 2016 8:34 pm

Tgt	Ion	Resp	Lower	Upper
91	100	17898		
106	30.5	24.5	36.7	





#83

m+p-xylene

Concen: 0.92 ppbV m

RT: 17.35 min Scan# 1628

Delta R.T. 0.000 min

Lab File: R239095.D

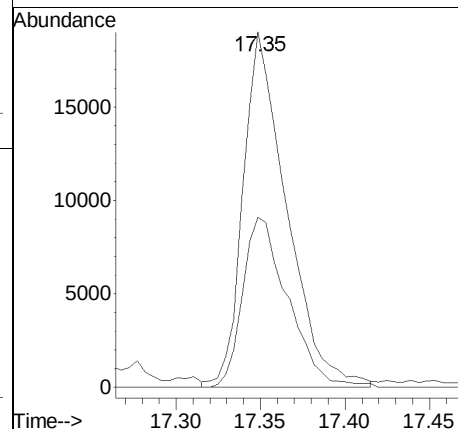
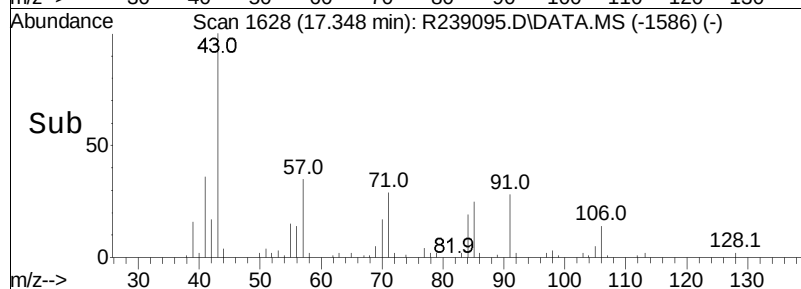
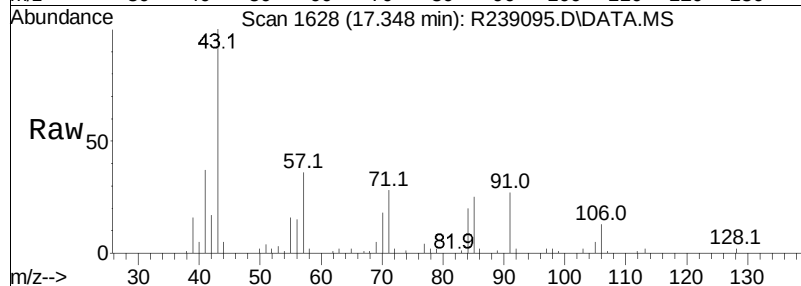
Acq: 19 Feb 2016 8:34 pm

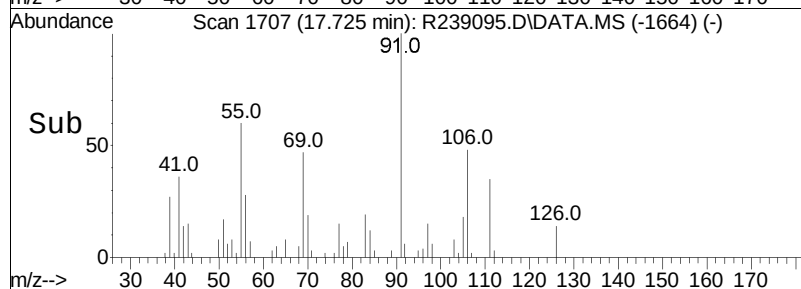
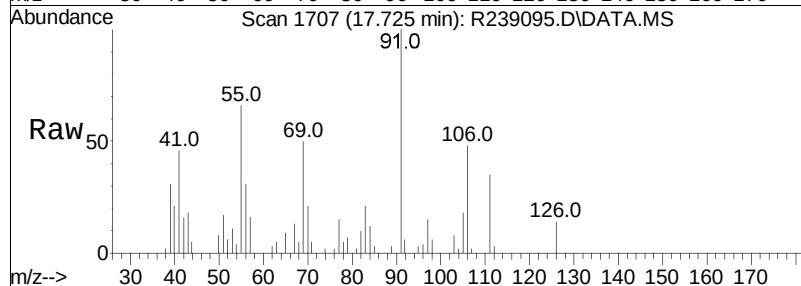
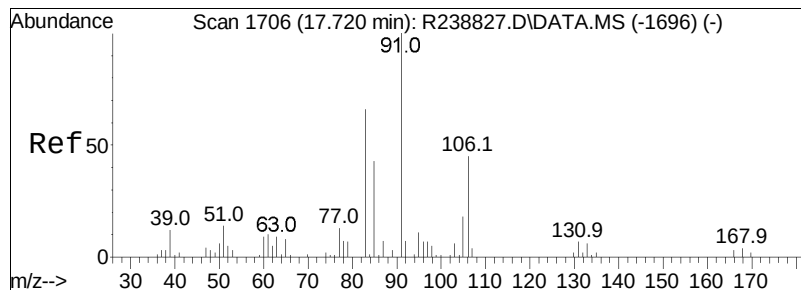
Tgt Ion: 91 Resp: 34193

Ion Ratio Lower Upper

91 100

106 47.9 37.7 56.5





#87

o-xylene

Concen: 0.36 ppbV

RT: 17.72 min Scan# 1707

Delta R.T. 0.005 min

Lab File: R239095.D

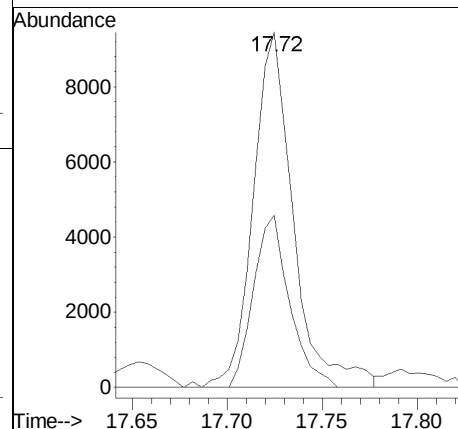
Acq: 19 Feb 2016 8:34 pm

Tgt Ion: 91 Resp: 13880

Ion Ratio Lower Upper

91 100

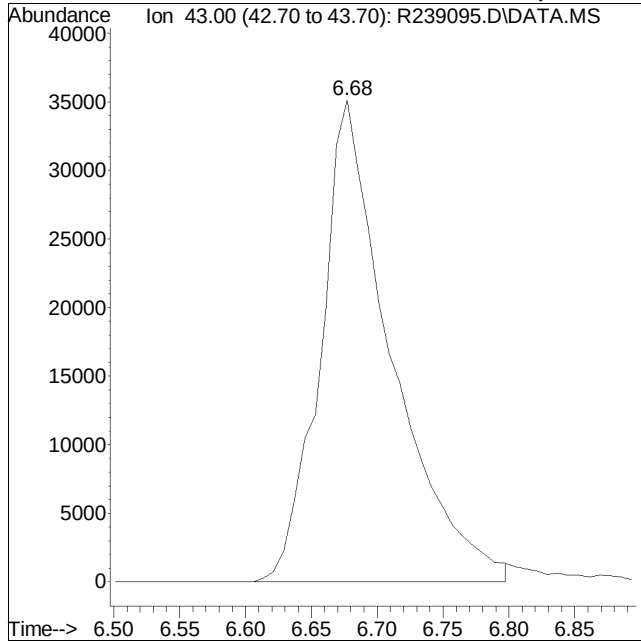
106 48.5 35.8 53.6



Manual Integration/Negative Proof Report

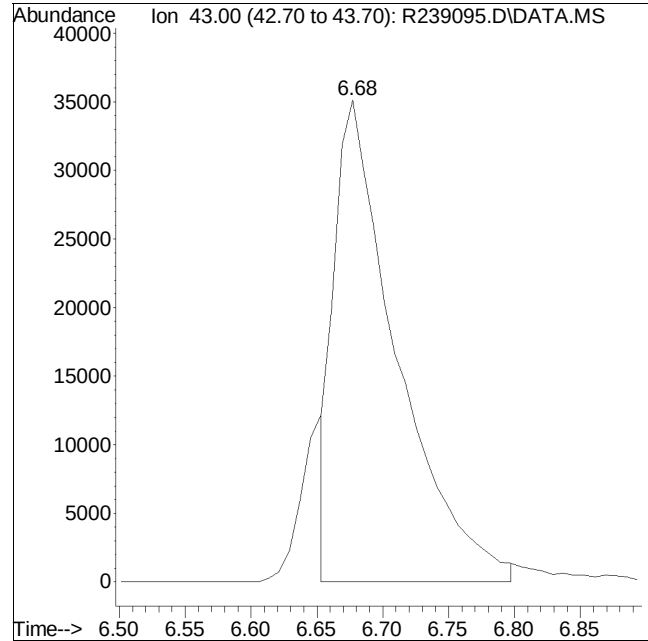
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239095.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 8:34 pm Instrument : Air Piano 2
Sample : L1604136-04D,3,25,250 Quant Date : 2/19/2016 11:32 pm

Compound #19: acetone



Original Peak Response = 131656

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

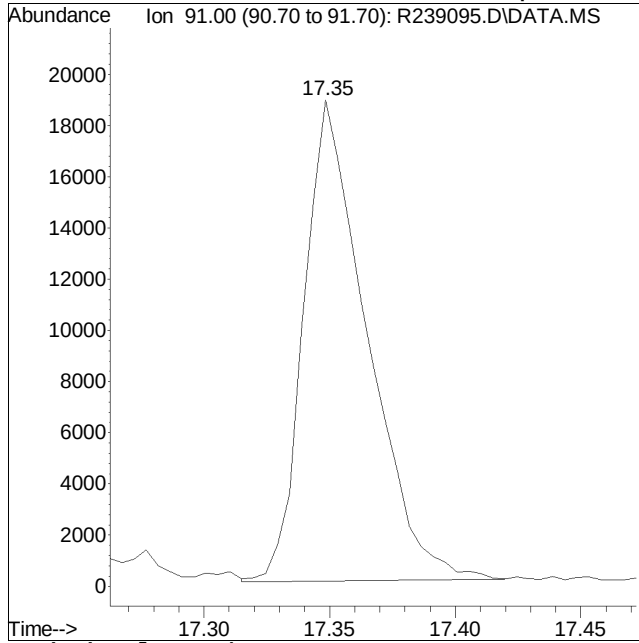


Manual Peak Response = 116310 M6

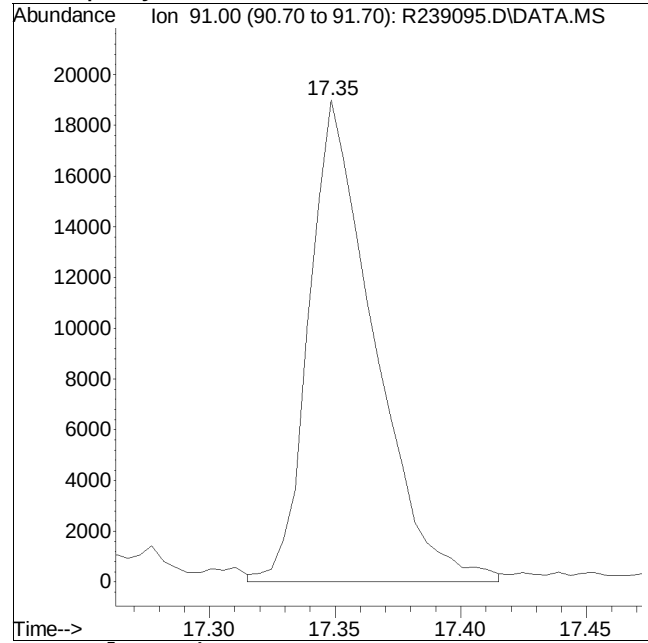
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239095.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 8:34 pm Instrument : Air Piano 2
Sample : L1604136-04D,3,25,250 Quant Date : 2/19/2016 11:32 pm

Compound #83: m+p-xylene



Original Peak Response = 32829



Manual Peak Response = 34193 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239096.D
 Acq On : 19 Feb 2016 9:09 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-05,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 10:27:56 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	139056	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		94.45%	
43) 1,4-difluorobenzene	12.54	114	339178	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		91.97%	
67) chlorobenzene-D5	16.90	54	73981	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		92.08%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
5) dichlorodifluoromethane	4.42	85	8203	0.467	ppbV	#	88
6) chloromethane	4.65	50	2047	0.211	ppbV		99
7) Freon-114	4.79		0	N.D.			
9) vinyl chloride	0.00		0	N.D.			
10) 1,3-butadiene	5.11		0	N.D.			
13) bromomethane	0.00		0	N.D.			
14) chloroethane	0.00		0	N.D.			
15) ethanol	6.09	31	141806	16.893	ppbV		96
17) vinyl bromide	0.00		0	N.D.			
19) acetone	0.00		0	N.D.	d		
21) trichlorofluoromethane	6.85	101	3712	0.168	ppbV		93
22) isopropyl alcohol	7.08	45	24318M4	1.306	ppbV		
26) 1,1-dichloroethene	0.00		0	N.D.			
27) tertiary butyl alcohol	7.84		0	N.D.			
28) methylene chloride	7.83	49	2643	0.197	ppbV	#	83
29) 3-chloropropene	0.00		0	N.D.	d		
30) carbon disulfide	8.16	76	5056	0.187	ppbV	#	59
31) Freon 113	8.16		0	N.D.			
32) trans-1,2-dichloroethene	0.00		0	N.D.	d		
33) 1,1-dichloroethane	0.00		0	N.D.	d		
34) MTBE	9.32	73	25534	0.946	ppbV	#	83
36) 2-butanone	9.73	43	8695	0.339	ppbV		98
37) cis-1,2-dichloroethene	0.00		0	N.D.			
38) Ethyl Acetate	10.48	61	4411	1.430	ppbV		79
39) chloroform	10.54	83	2366	0.120	ppbV	#	74
40) Tetrahydrofuran	0.00		0	N.D.	d		
42) 1,2-dichloroethane	0.00		0	N.D.			
44) hexane	10.43	57	146168	7.665	ppbV	#	38

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239096.D
 Acq On : 19 Feb 2016 9:09 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-05,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 10:27:56 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	11.64	97	42921	1.622	ppbV	93
50) benzene	12.16	78	7288	0.220	ppbV	98
52) carbon tetrachloride	12.32		0	N.D.		
53) cyclohexane	12.46	56	2765	0.136	ppbV #	84
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.	d	
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d	
62) heptane	13.66	43	27216	1.004	ppbV #	80
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.	d	
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	15.08		0	N.D.		
68) toluene	15.33	91	17615	0.356	ppbV	95
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.36		0	N.D.		
80) chlorobenzene	0.00		0	N.D.		
81) ethylbenzene	17.22	91	3125	0.070	ppbV	99
83) m+p-xylene	17.35	91	8993	0.261	ppbV	93
84) bromoform	0.00		0	N.D.		
85) styrene	17.65		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.78		0	N.D.		
87) o-xylene	17.72	91	3877	0.109	ppbV #	81
96) 4-ethyl toluene	18.64		0	N.D.		
97) 1,3,5-trimethylbenzene	18.69		0	N.D.		
99) 1,2,4-trimethylbenzene	19.00	105	3731	0.090	ppbV #	51
101) Benzyl Chloride	0.00		0	N.D.	d	
102) 1,3-dichlorobenzene	19.13		0	N.D.		
103) 1,4-dichlorobenzene	19.13		0	N.D.		
107) 1,2-dichlorobenzene	0.00		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239096.D
 Acq On : 19 Feb 2016 9:09 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-05,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 10:27:56 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

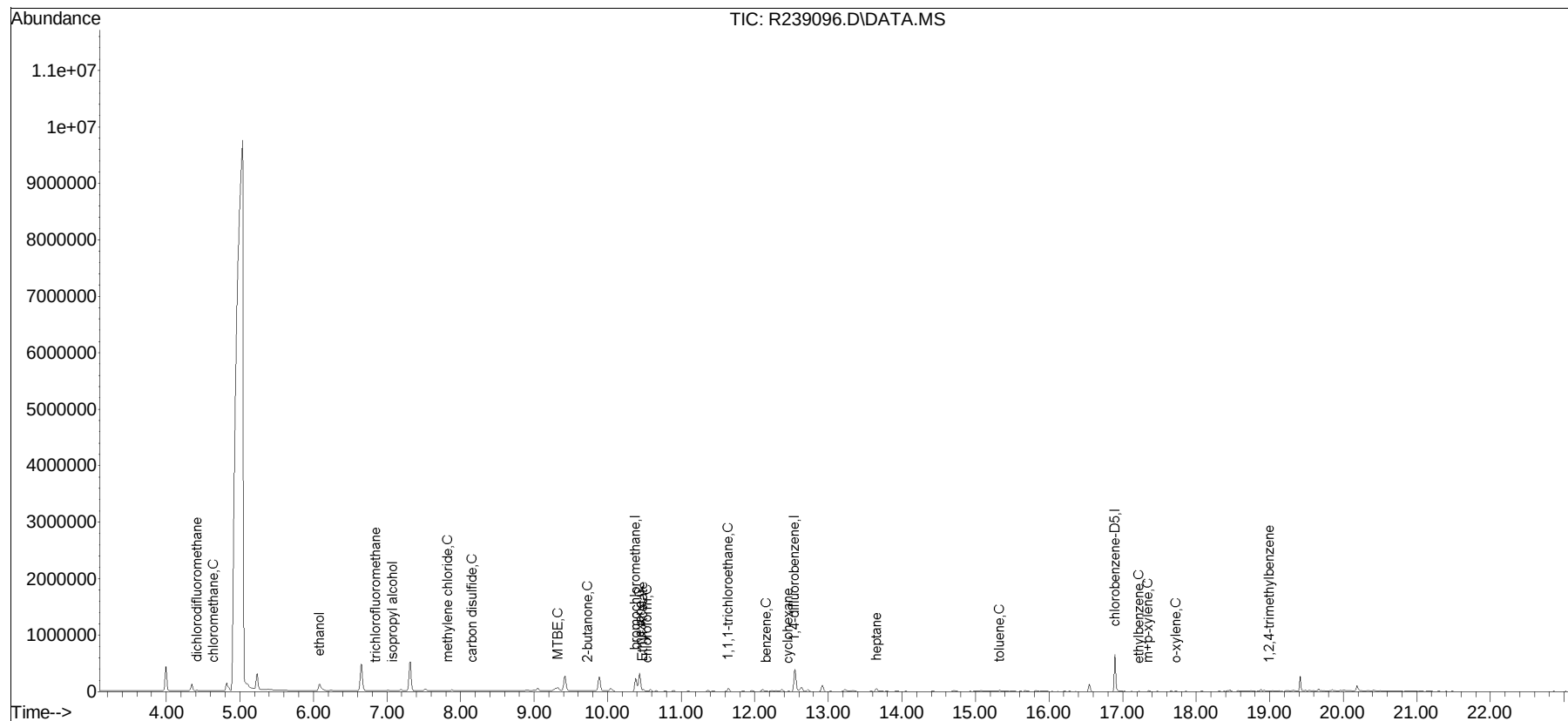
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239096.D
 Acq On : 19 Feb 2016 9:09 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-05, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 5 Sample Multiplier: 1

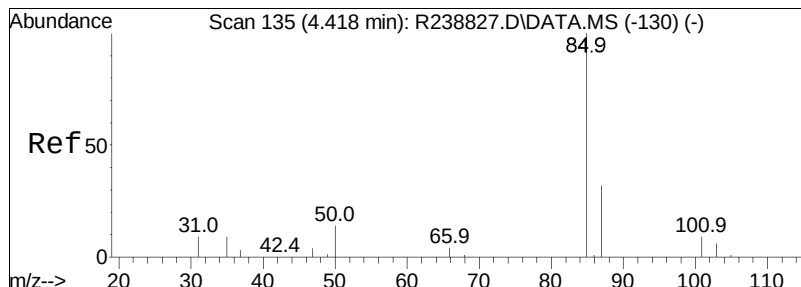
Quant Time: Feb 20 10:27:56 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



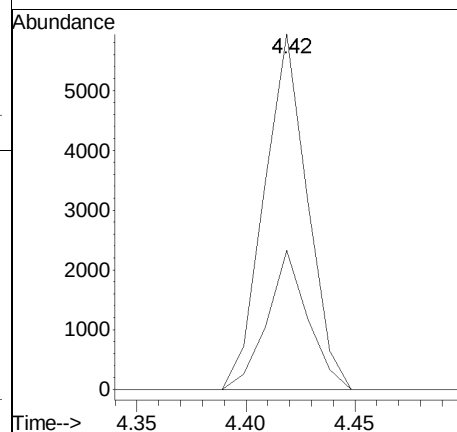
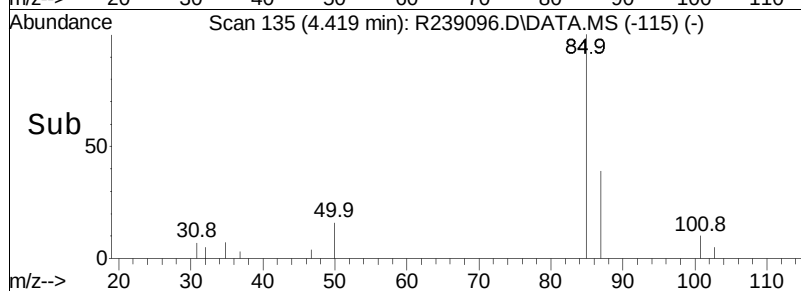
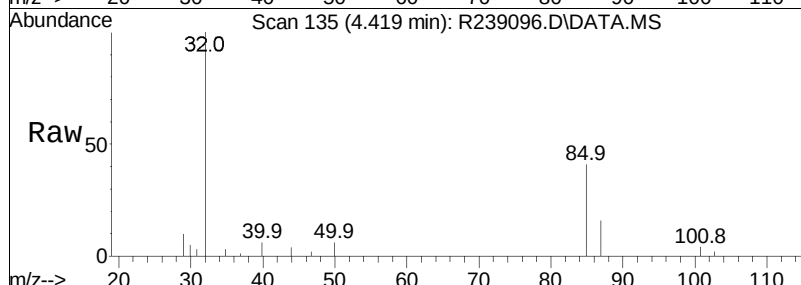
TALL160207.M Sat Feb 20 10:28:06 2016

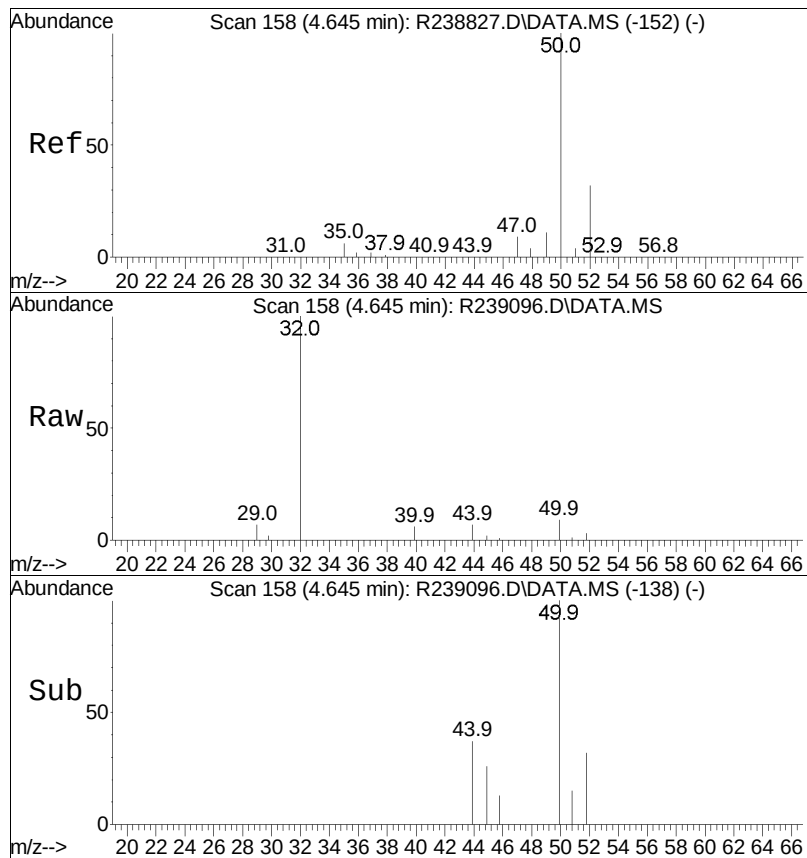
Page 4



#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

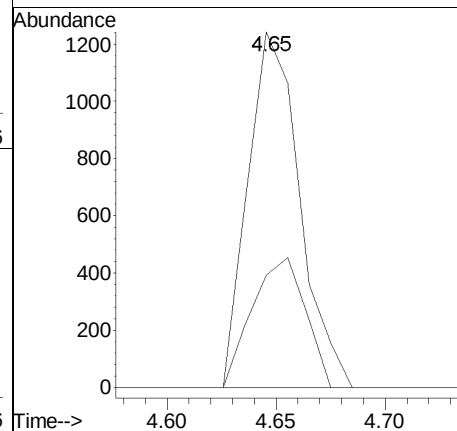
Tgt Ion: 85 Resp: 8203
Ion Ratio Lower Upper
85 100
87 39.1 25.8 38.8#

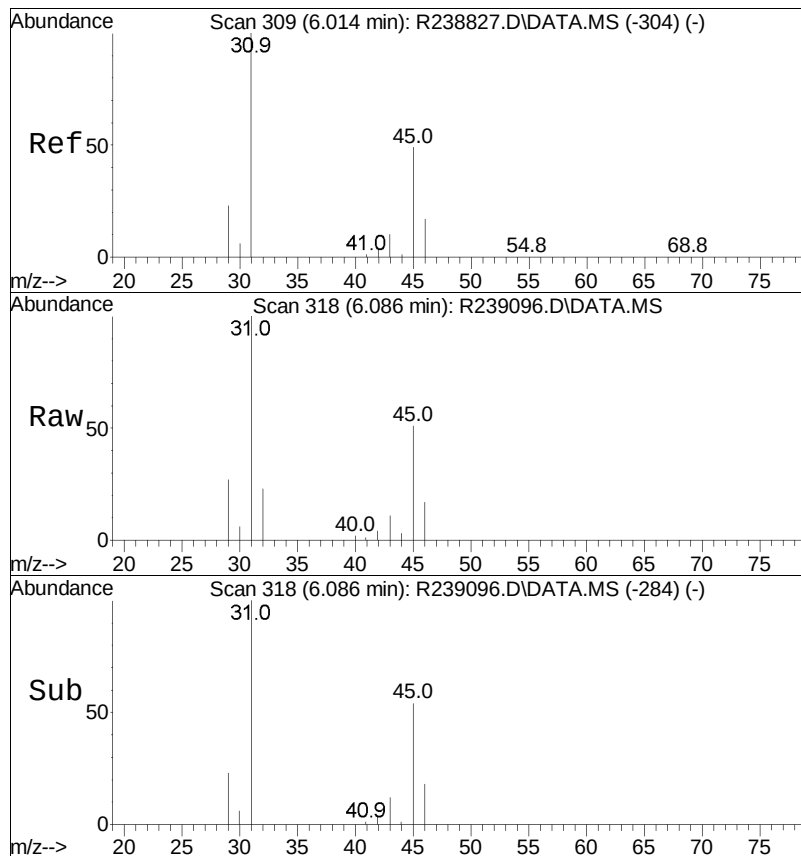




#6
 chloromethane
 Concen: 0.21 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

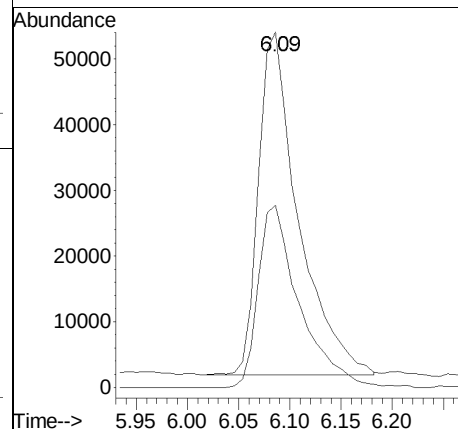
Tgt	Ion	Resp	Lower	Upper
50	100	2047		
52	31.6		25.5	38.3

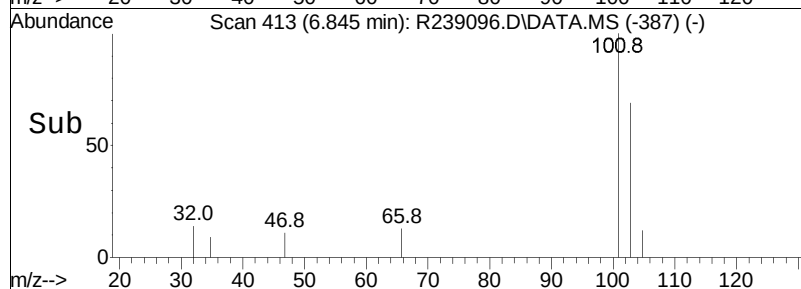
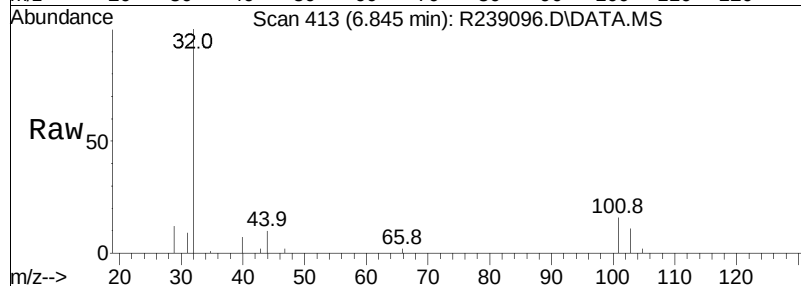
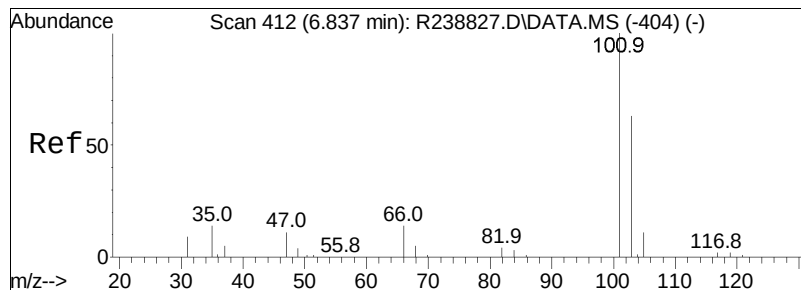




#15
 ethanol
 Concen: 16.89 ppbV
 RT: 6.09 min Scan# 318
 Delta R.T. 0.072 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

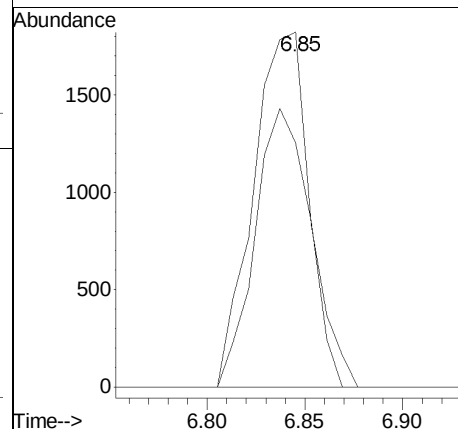
Tgt Ion	Ratio	Lower	Upper
31	100		
45	51.3	38.7	58.1

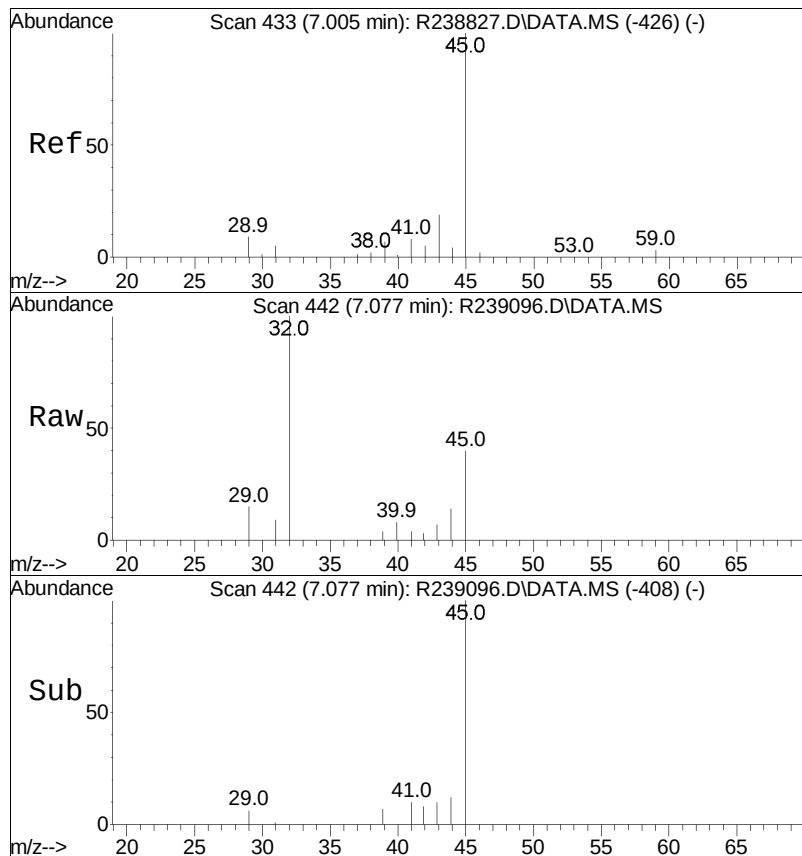




#21
trichlorofluoromethane
Concen: 0.17 ppbV
RT: 6.85 min Scan# 413
Delta R.T. 0.008 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

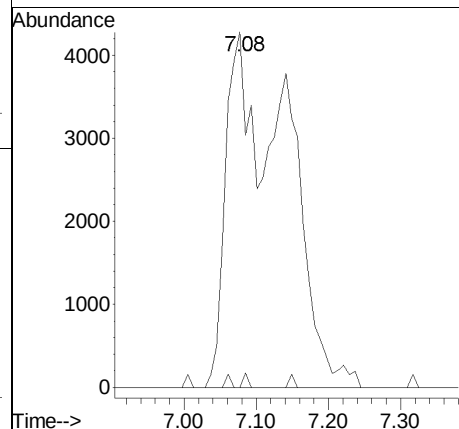
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	68.8	50.5	75.7

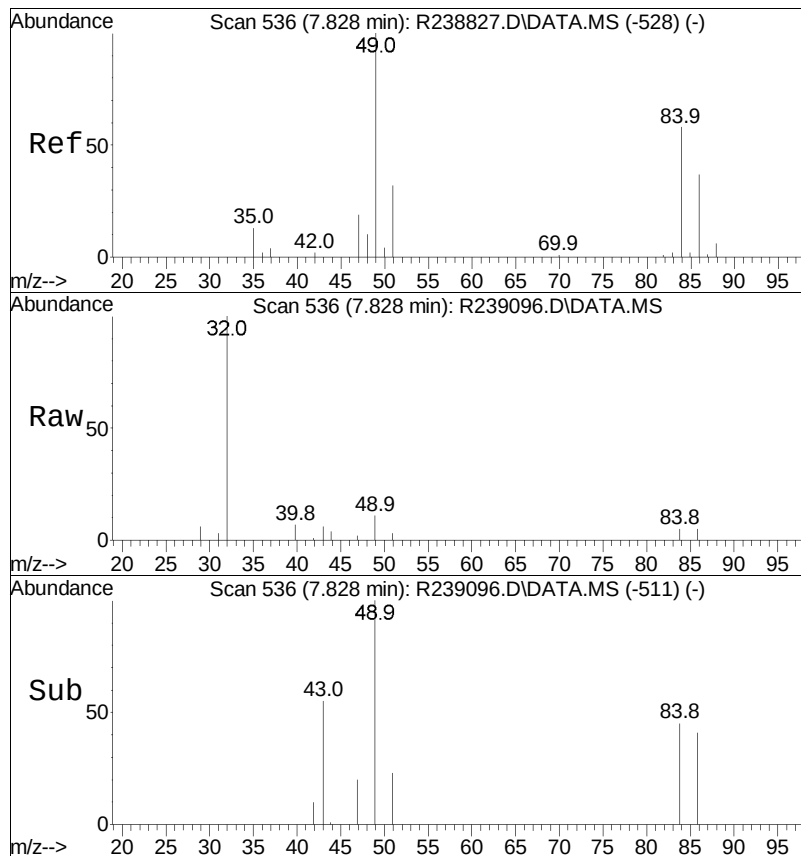




#22
isopropyl alcohol
Concen: 1.31 ppbV m
RT: 7.08 min Scan# 442
Delta R.T. 0.072 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

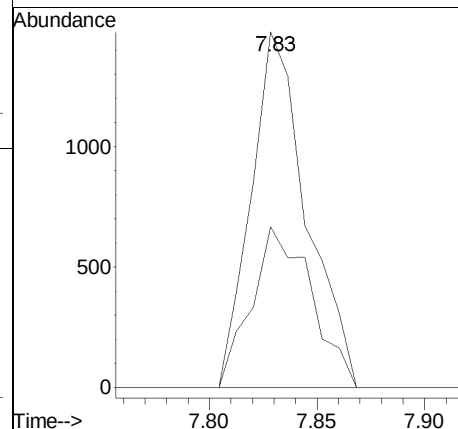
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.6	4.0#

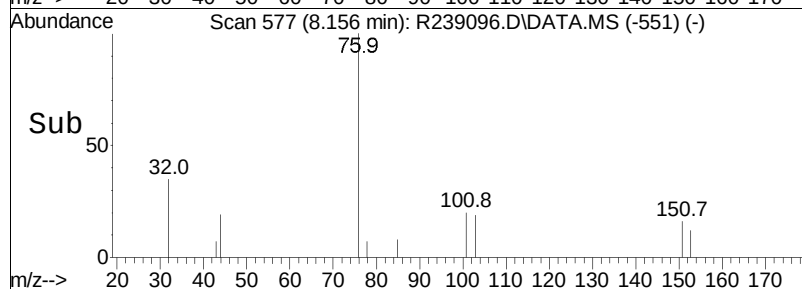
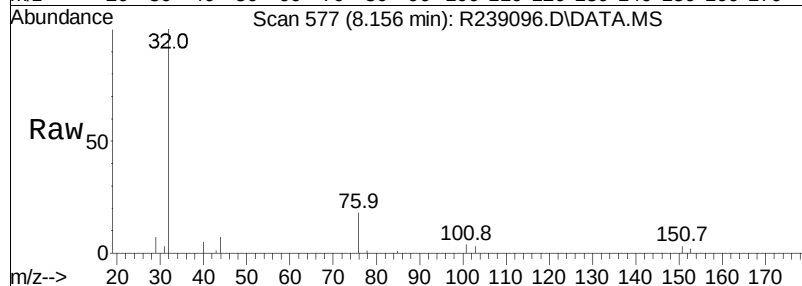
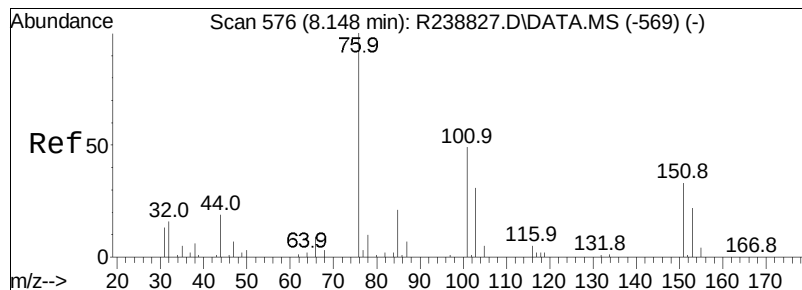




#28
 methylene chloride
 Concen: 0.20 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.000 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

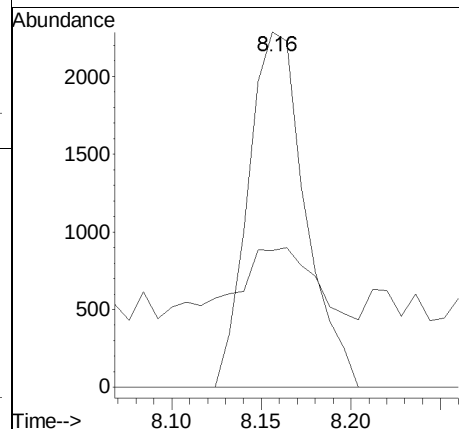
Tgt Ion	Ratio	Lower	Upper
49	100		
84	45.2	46.5	69.7#

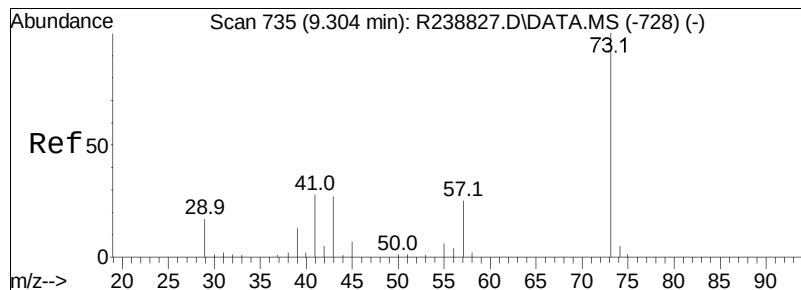




#30
carbon disulfide
Concen: 0.19 ppbV
RT: 8.16 min Scan# 577
Delta R.T. 0.008 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

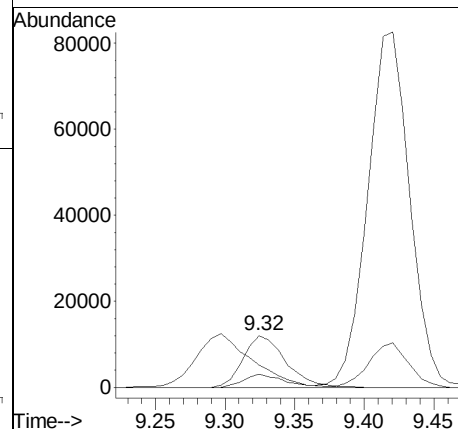
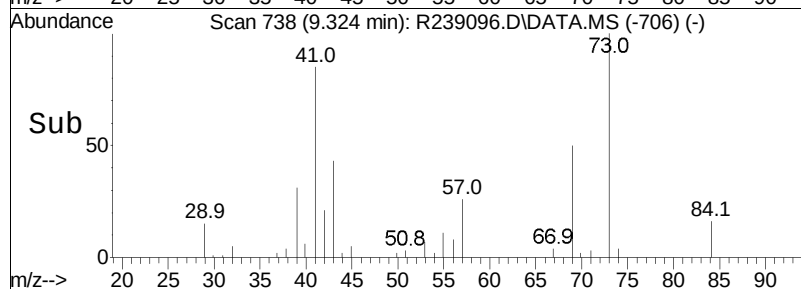
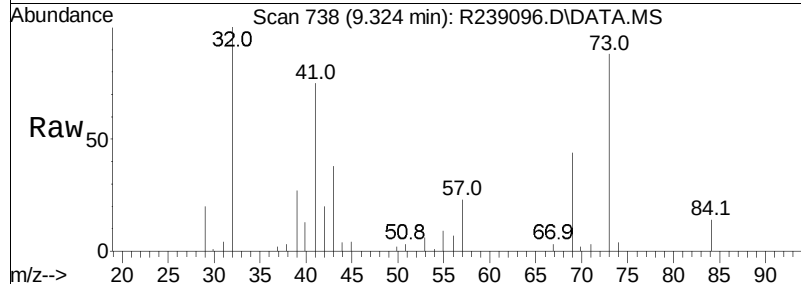
Tgt	Ion	Ratio	Lower	Upper
76	100			
44	38.5	15.8	23.6#	

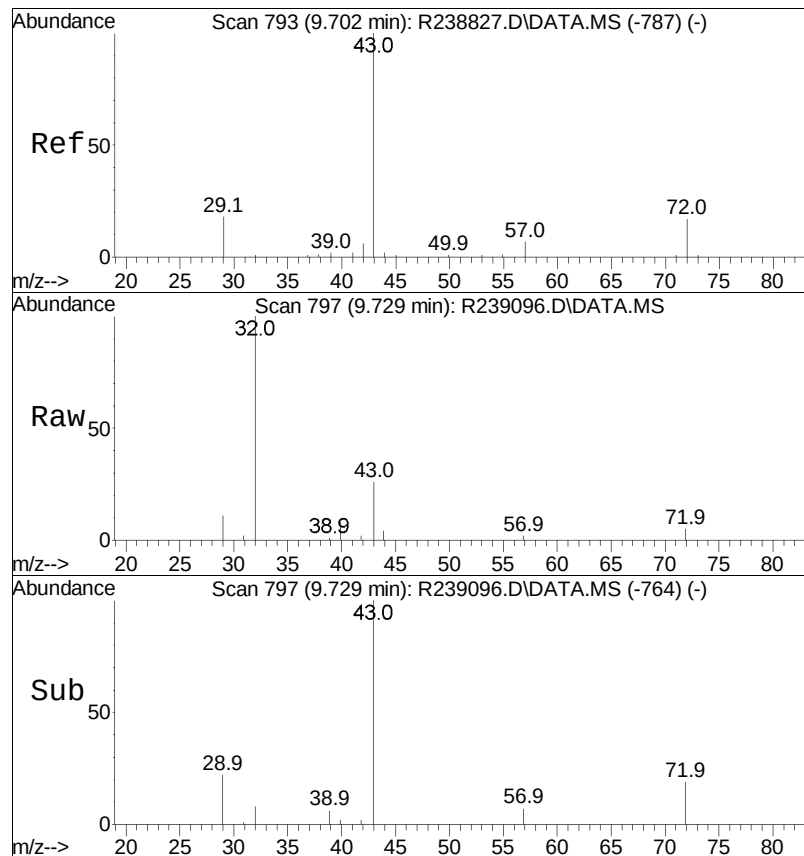




#34
 MTBE
 Concen: 0.95 ppbV
 RT: 9.32 min Scan# 738
 Delta R.T. 0.021 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

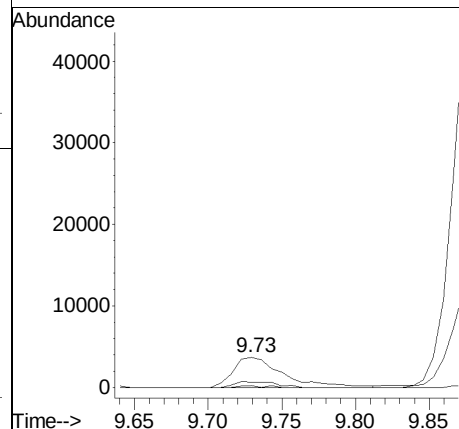
Tgt Ion	Ratio	Lower	Upper
73	100		
57	25.9	19.9	29.9
43	43.1	21.9	32.9#

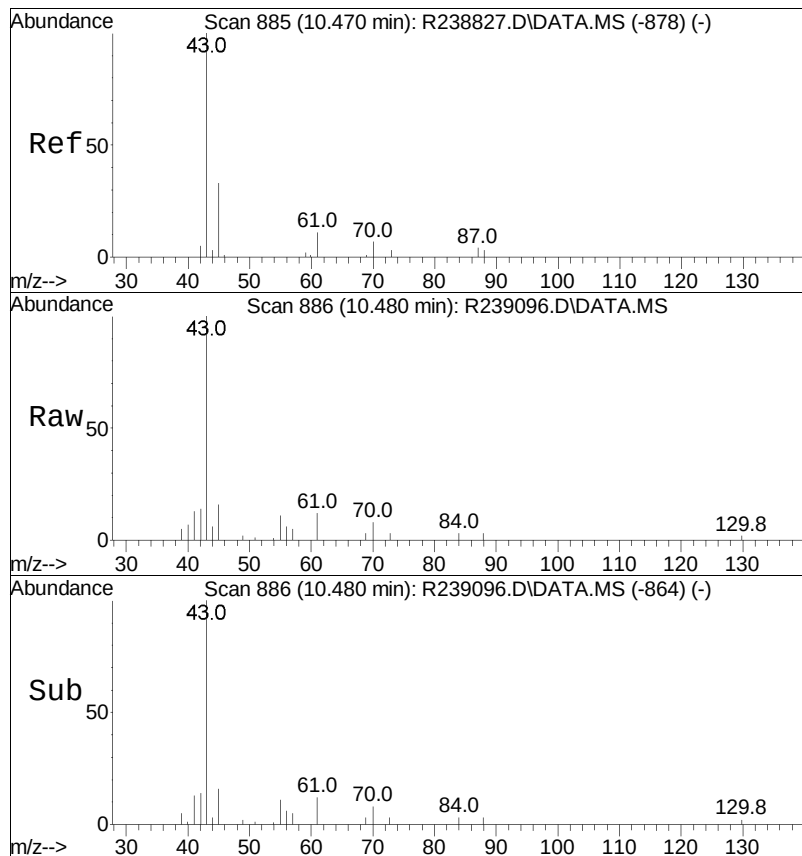




#36
 2-butanone
 Concen: 0.34 ppbV
 RT: 9.73 min Scan# 797
 Delta R.T. 0.028 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

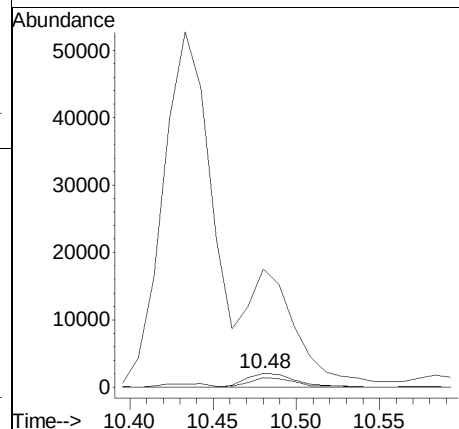
Tgt Ion:	43	Resp:	8695
Ion Ratio	Lower	Upper	
43	100		
72	17.8	13.5	20.3
57	6.3	5.5	8.3

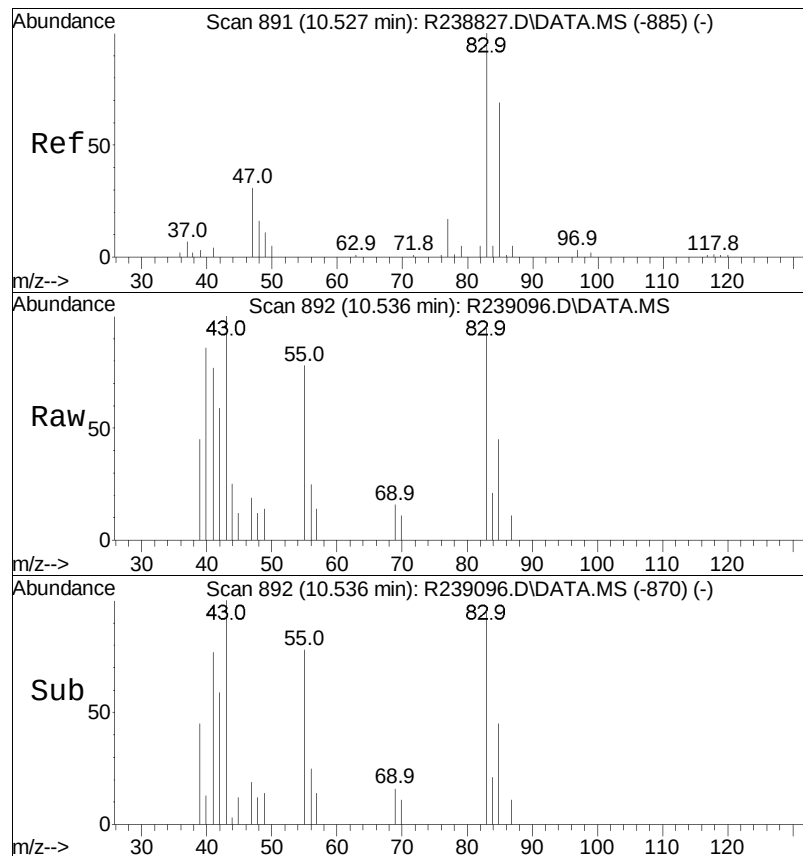




#38
Ethyl Acetate
Concen: 1.43 ppbV
RT: 10.48 min Scan# 886
Delta R.T. 0.010 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

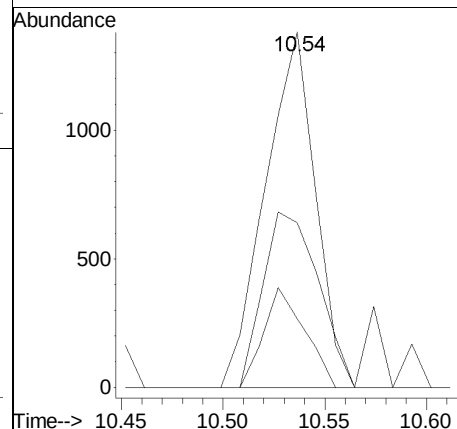
Tgt Ion	Ratio	Lower	Upper
61	100		
70	70.2	54.6	81.8
43	846.3	753.4	1130.0

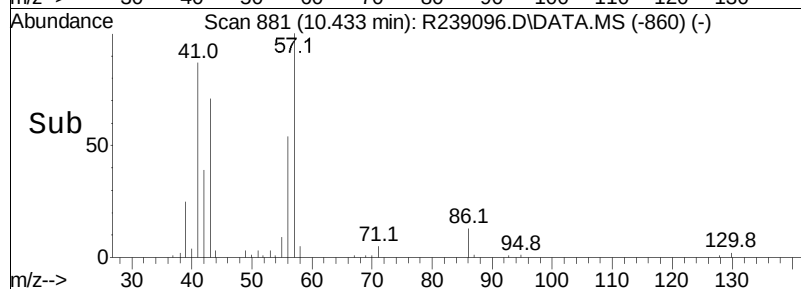
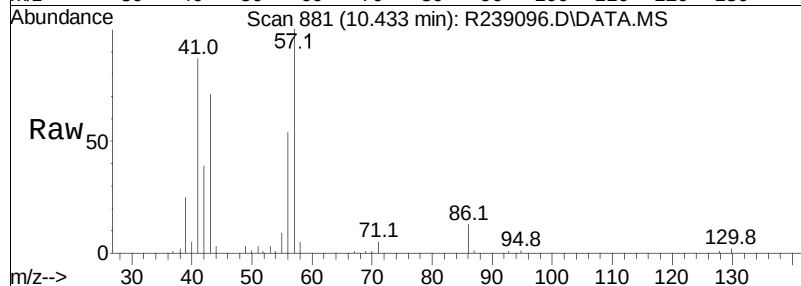
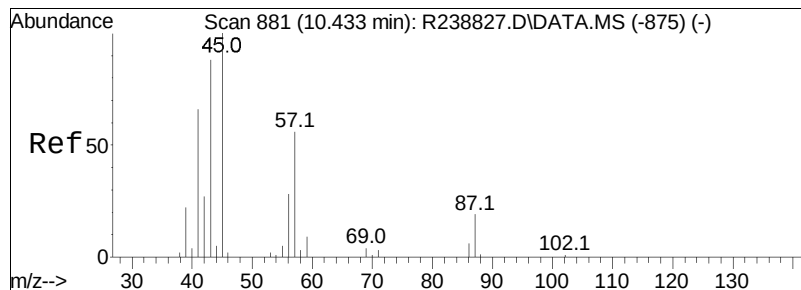




#39
chloroform
Concen: 0.12 ppbV
RT: 10.54 min Scan# 892
Delta R.T. 0.010 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

Tgt	Ion: 83	Resp:	2366
Ion	Ratio	Lower	Upper
83	100		
85	46.3	55.1	82.7#
47	19.3	24.9	37.3#





#44

hexane

Concen: 7.66 ppbV

RT: 10.43 min Scan# 881

Delta R.T. 0.000 min

Lab File: R239096.D

Acq: 19 Feb 2016 9:09 pm

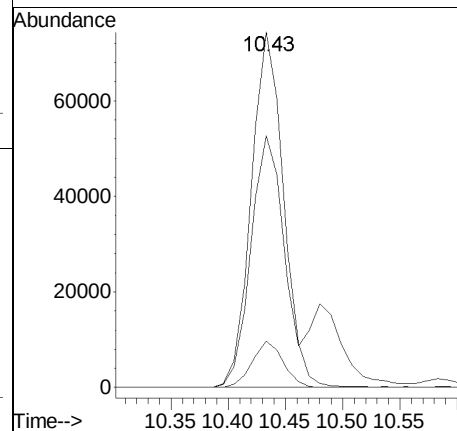
Tgt Ion: 57 Resp: 146168

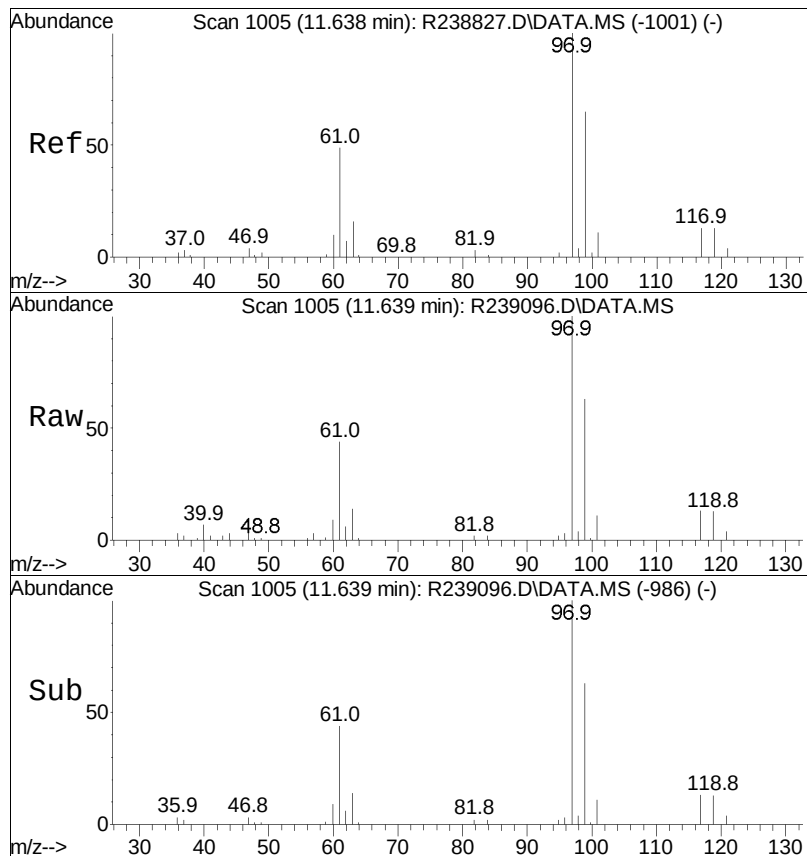
Ion Ratio Lower Upper

57 100

43 70.8 125.3 187.9#

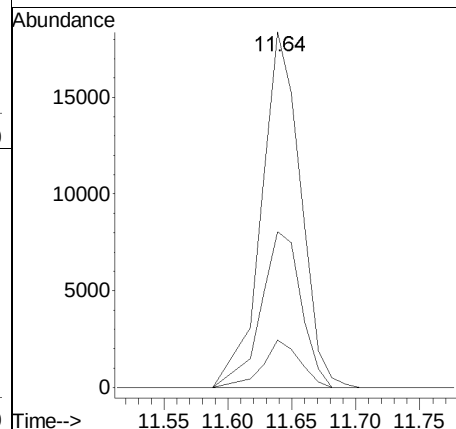
86 13.0 9.0 13.6

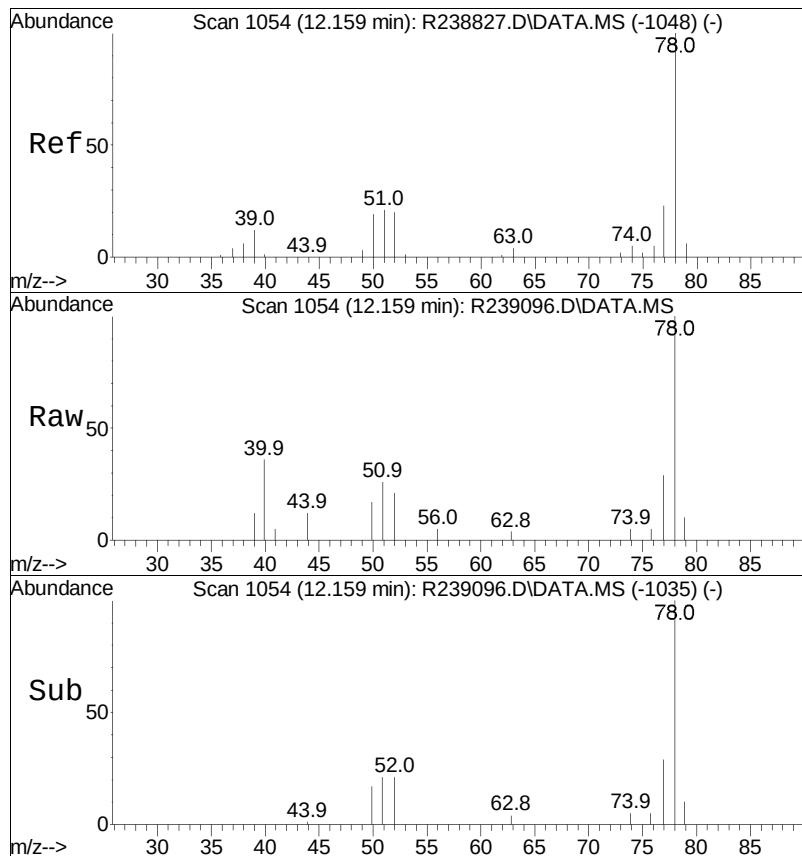




#48
 1,1,1-trichloroethane
 Concen: 1.62 ppbV
 RT: 11.64 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

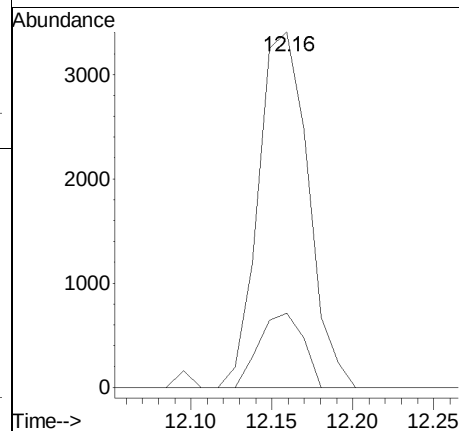
Tgt	Ion	Resp	Lower	Upper
97	100	42921		
61	43.8		39.4	59.0
119	13.3		10.1	15.1

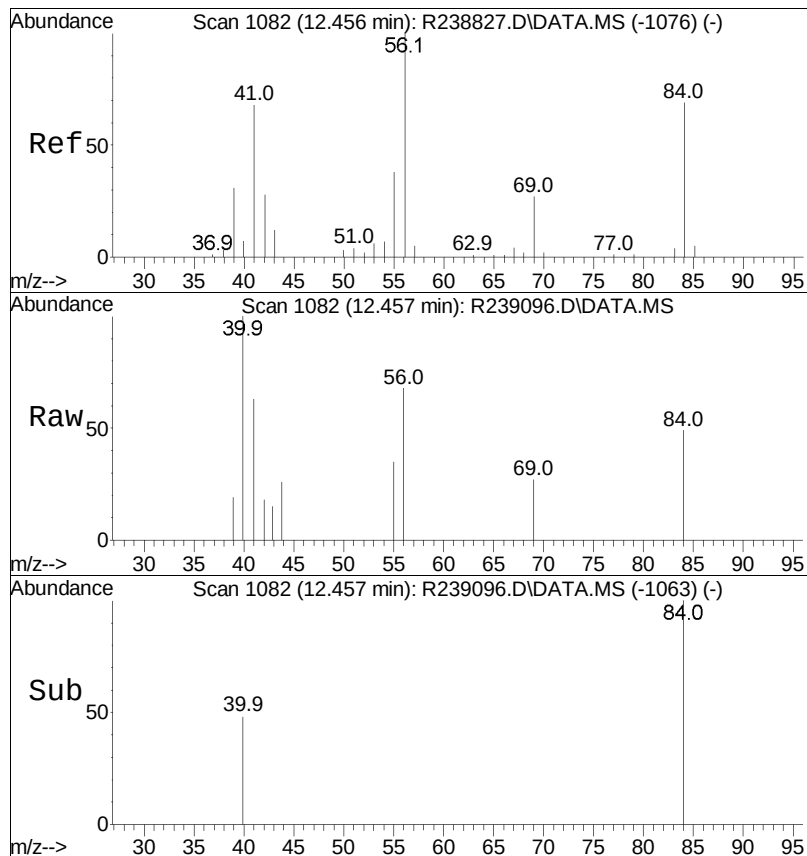




#50
benzene
Concen: 0.22 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

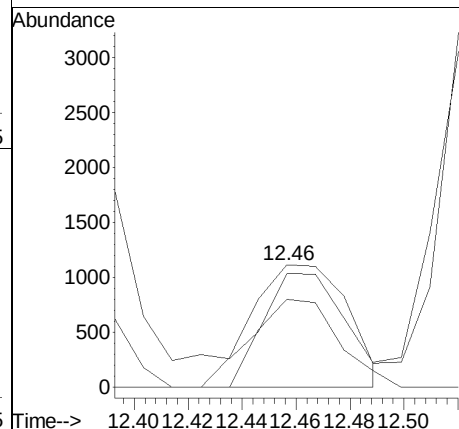
Tgt Ion	Ratio	Lower	Upper
78	100		
52	20.9	15.9	23.9

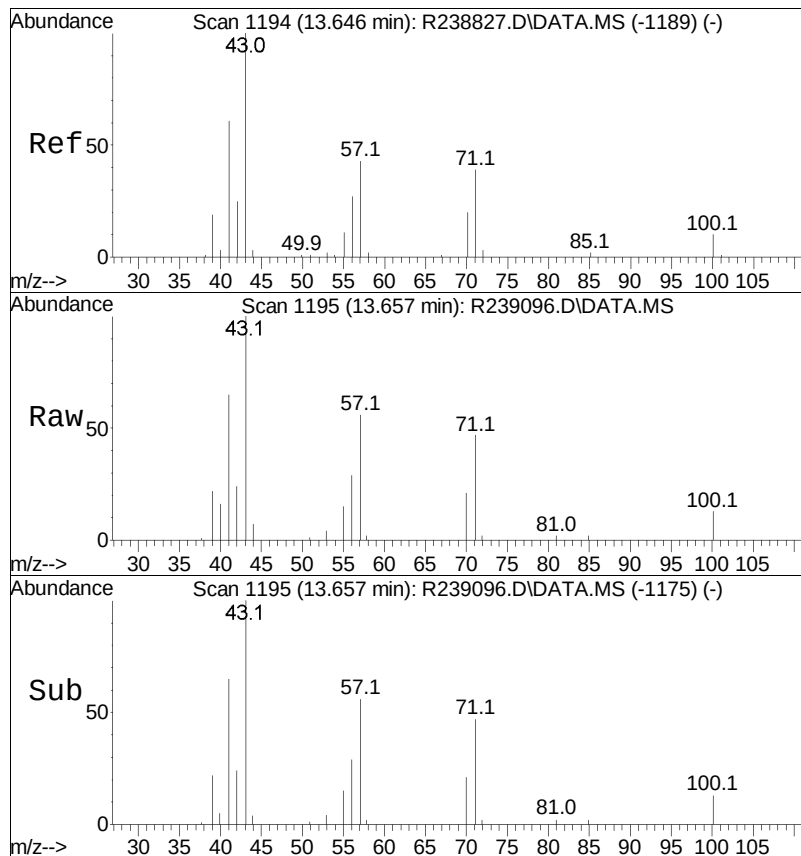




#53
cyclohexane
Concen: 0.14 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

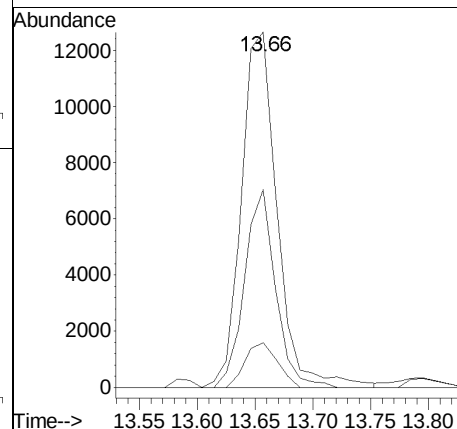
Tgt	Ion	Resp	Lower	Upper
56	100	2765		
84	71.9	56.2	84.4	
41	92.8	54.6	82.0	

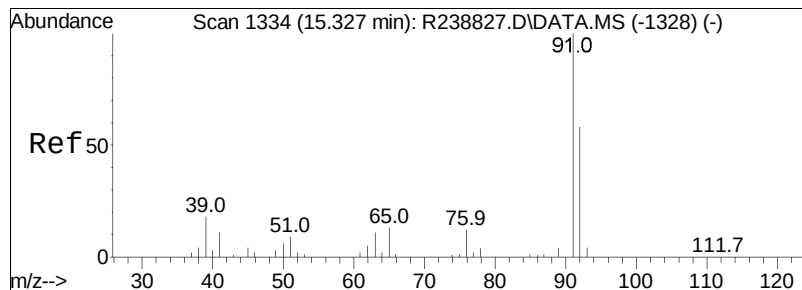




#62
heptane
Concen: 1.00 ppbV
RT: 13.66 min Scan# 1195
Delta R.T. 0.011 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

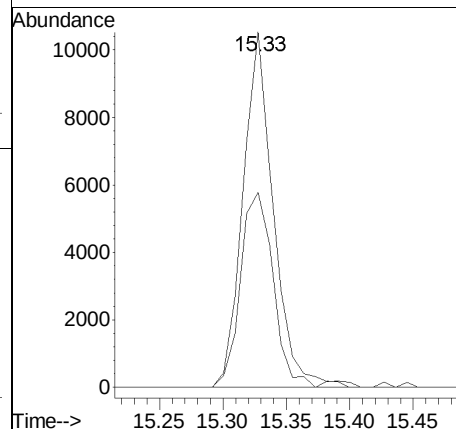
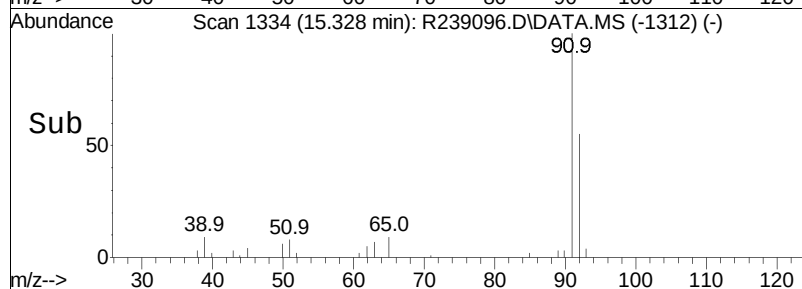
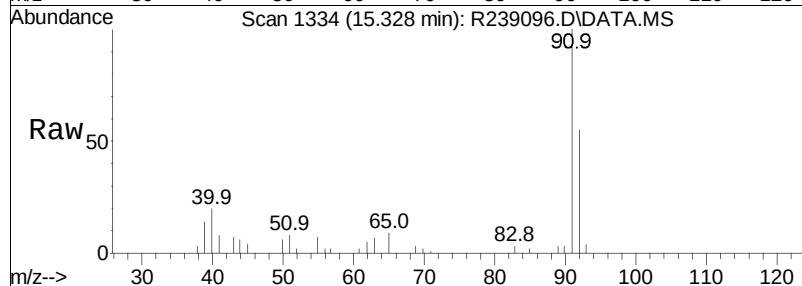
Tgt Ion	Ratio	Lower	Upper
43	100		
57	57.8	34.4	51.6#
100	12.6	8.4	12.6

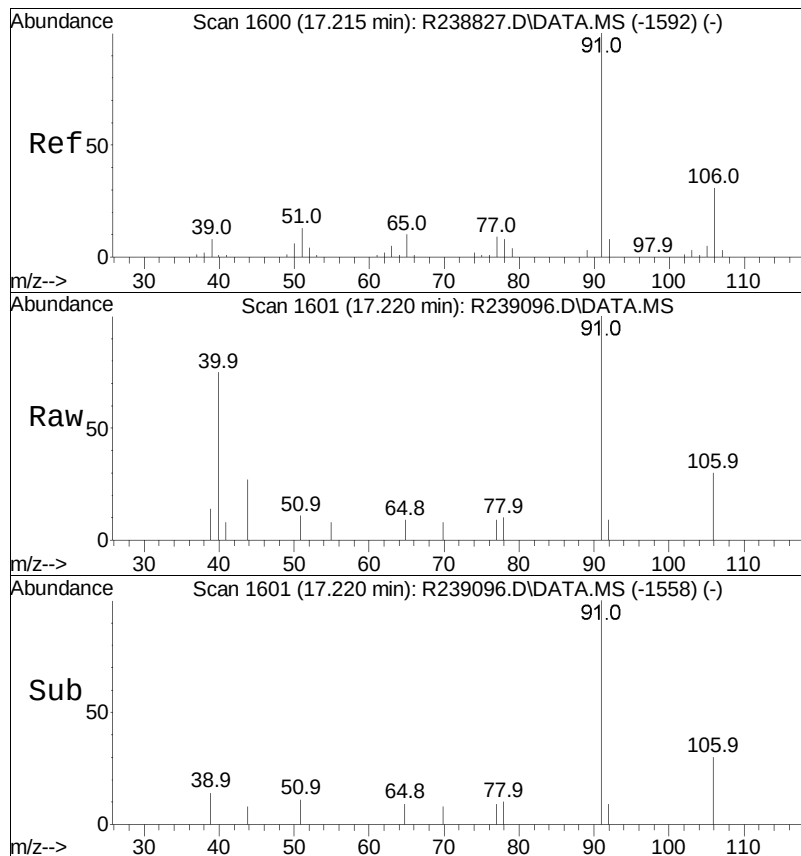




#68
toluene
Concen: 0.36 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

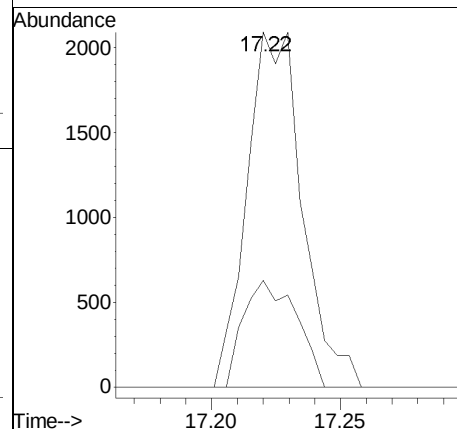
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	46.7	70.1

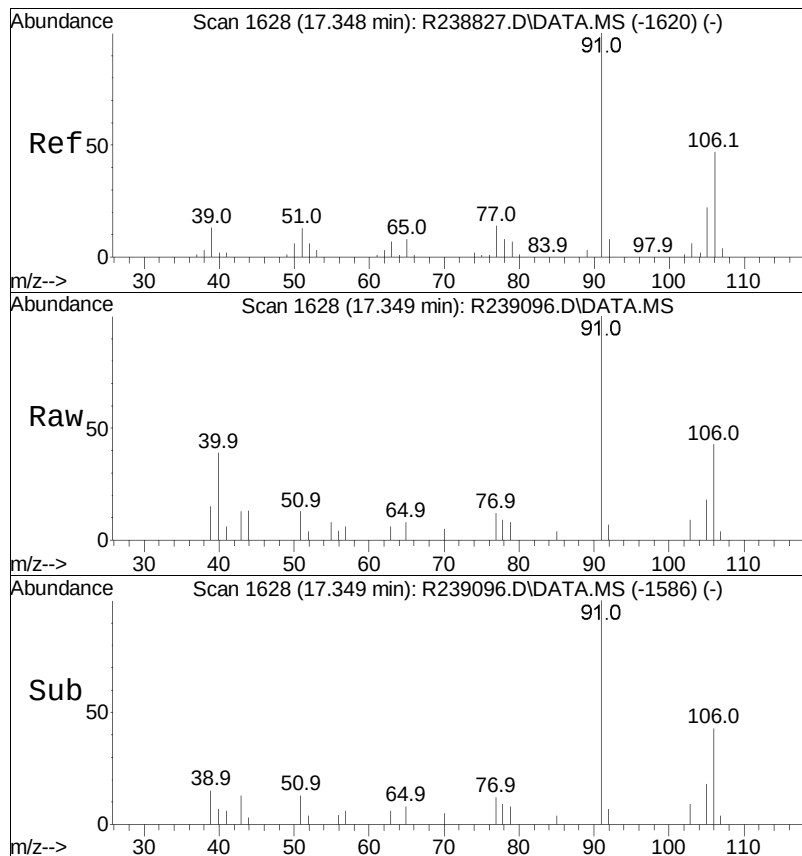




#81
ethylbenzene
Concen: 0.07 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239096.D
Acq: 19 Feb 2016 9:09 pm

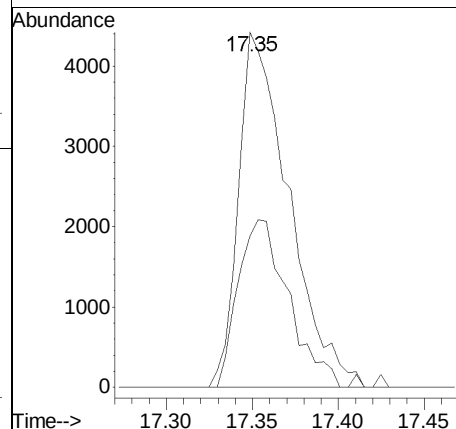
Tgt	Ion	Resp	Lower	Upper
91	100	3125		
106	30.1	24.5	36.7	

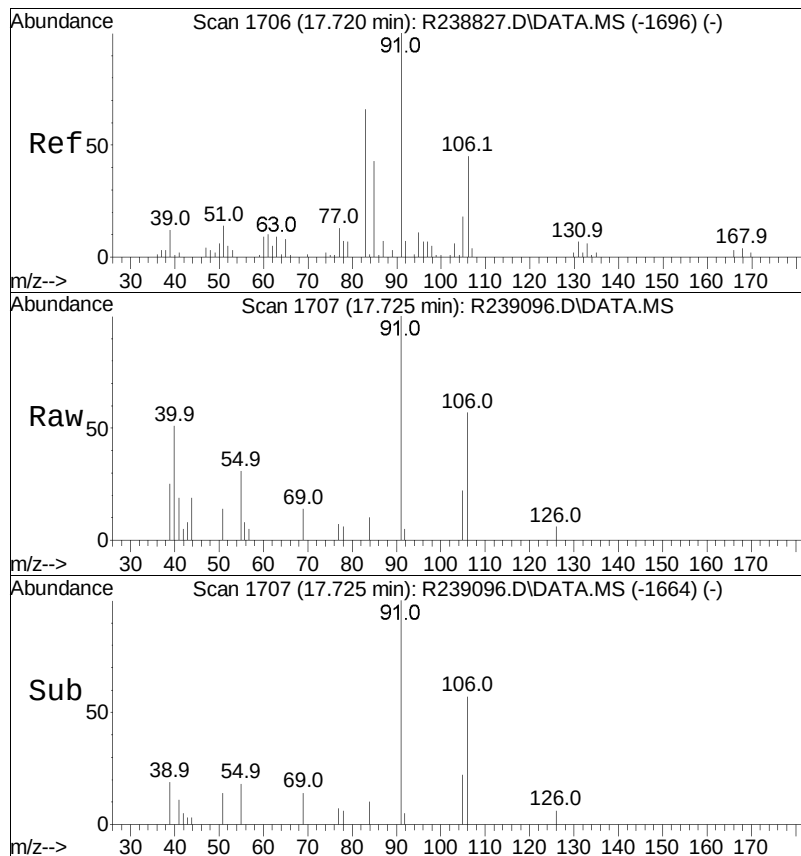




#83
 m+p-xylene
 Concen: 0.26 ppbV
 RT: 17.35 min Scan# 1628
 Delta R.T. 0.000 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

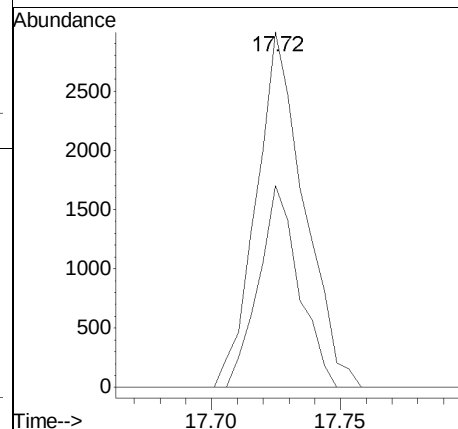
Tgt Ion: 91 Resp: 8993
 Ion Ratio Lower Upper
 91 100
 106 42.6 37.7 56.5

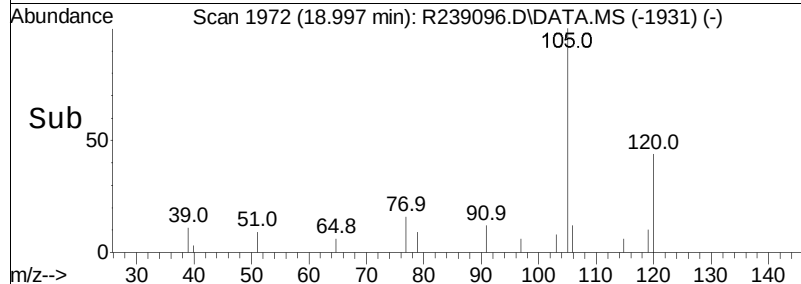
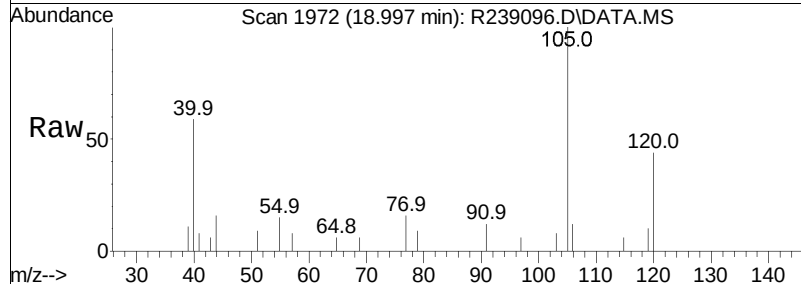
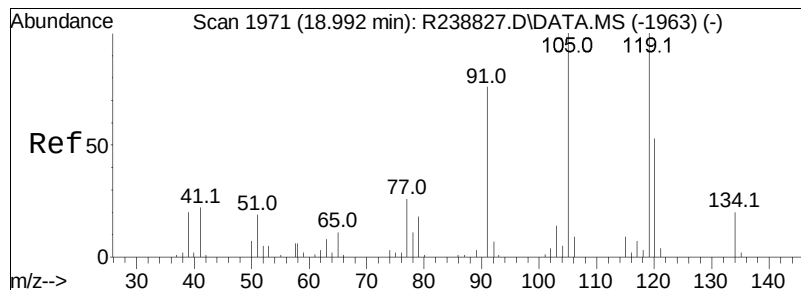




#87
 o-xylene
 Concen: 0.11 ppbV
 RT: 17.72 min Scan# 1707
 Delta R.T. 0.005 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

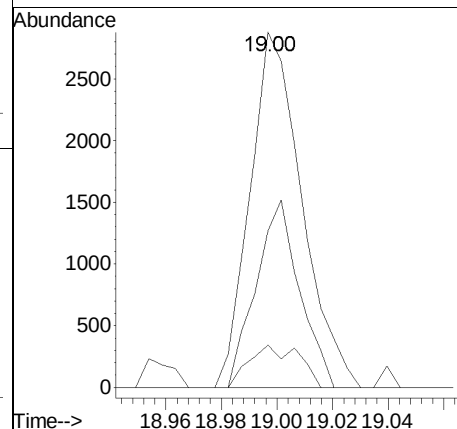
Tgt Ion	Ratio	Lower	Upper
91	100		
106	56.8	35.8	53.6#





#99
 1,2,4-trimethylbenzene
 Concen: 0.09 ppbV
 RT: 19.00 min Scan# 1972
 Delta R.T. 0.005 min
 Lab File: R239096.D
 Acq: 19 Feb 2016 9:09 pm

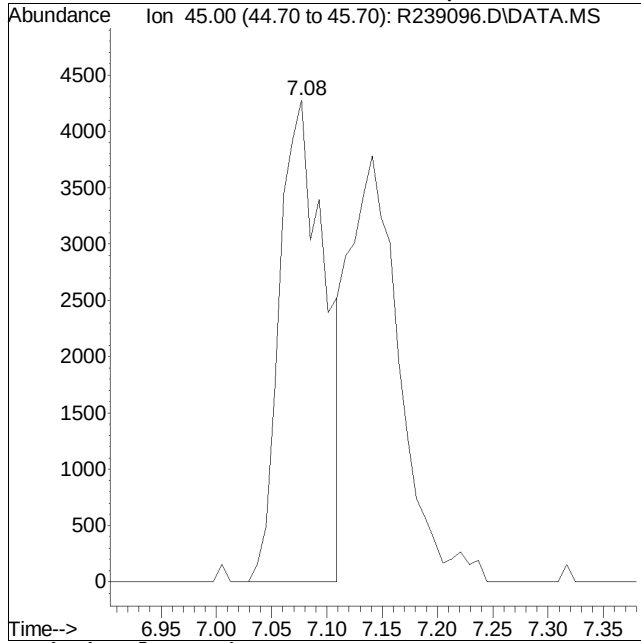
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	42.2	63.4
91	11.9	61.1	91.7#



Manual Integration/Negative Proof Report

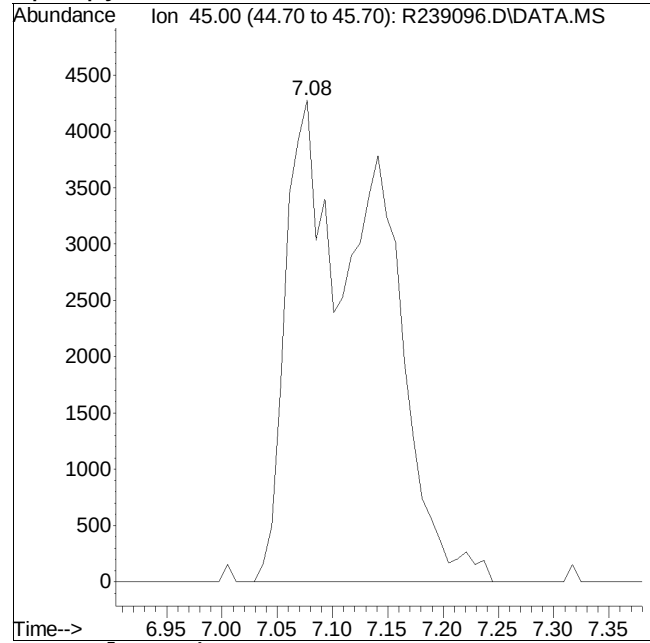
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239096.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 9:09 pm Instrument : Air Piano 2
Sample : L1604136-05,3,250,250 Quant Date : 2/19/2016 11:32 pm

Compound #22: isopropyl alcohol



Original Peak Response = 12184

M4 = Poor automated baseline construction.



Manual Peak Response = 24318 M4

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239097.D
 Acq On : 19 Feb 2016 9:44 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-06,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:29:54 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	133587	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		90.74%	
43) 1,4-difluorobenzene	12.54	114	329094	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		89.24%	
67) chlorobenzene-D5	16.90	54	69403	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		86.38%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	7467	0.442	ppbV	97
6) chloromethane	4.65	50	2016	0.216	ppbV	98
7) Freon-114	4.79		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	5.10		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.09	31	111205	13.790	ppbV	95
17) vinyl bromide	0.00		0	N.D.		
19) acetone	0.00		0	N.D.	d	
21) trichlorofluoromethane	6.84	101	3982	0.188	ppbV	90
22) isopropyl alcohol	7.08	45	10146M4	0.567	ppbV	
26) 1,1-dichloroethene	0.00		0	N.D.		
27) tertiary butyl alcohol	0.00		0	N.D.		
28) methylene chloride	7.83	49	2174	0.168	ppbV	90
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	8.16	76	4455	0.171	ppbV #	62
31) Freon 113	8.17	101	997	0.056	ppbV #	63
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	9.32	73	21810	0.841	ppbV #	80
36) 2-butanone	9.74	43	5334	0.217	ppbV #	93
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	10.49	61	362	0.122	ppbV #	43
39) chloroform	10.53	83	1443	0.076	ppbV #	78
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.43	57	116621	6.303	ppbV #	42

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239097.D
 Acq On : 19 Feb 2016 9:44 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-06,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:29:54 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	11.64	97	32895	1.281	ppbV	99
50) benzene	12.16	78	6985	0.218	ppbV	100
52) carbon tetrachloride	12.32		0	N.D.		
53) cyclohexane	12.46	56	1727	0.087	ppbV	87
56) 1,2-dichloropropane	0.00		0	N.D.	d	
57) bromodichloromethane	0.00		0	N.D.	d	
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d	
62) heptane	13.66	43	17014	0.647	ppbV #	95
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.		
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	15.33	91	12098	0.261	ppbV	97
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.36		0	N.D.		
80) chlorobenzene	16.94		0	N.D.		
81) ethylbenzene	17.22	91	2732	0.065	ppbV	89
83) m+p-xylene	17.35	91	8209	0.254	ppbV	96
84) bromoform	0.00		0	N.D.		
85) styrene	17.65		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.74		0	N.D.		
87) o-xylene	17.73	91	3428	0.103	ppbV	93
96) 4-ethyl toluene	18.64		0	N.D.		
97) 1,3,5-trimethylbenzene	18.70		0	N.D.		
99) 1,2,4-trimethylbenzene	19.00	105	2869	0.074	ppbV #	46
101) Benzyl Chloride	19.01		0	N.D.		
102) 1,3-dichlorobenzene	19.13		0	N.D.		
103) 1,4-dichlorobenzene	19.13		0	N.D.		
107) 1,2-dichlorobenzene	0.00		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239097.D
 Acq On : 19 Feb 2016 9:44 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-06,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 20 10:29:54 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

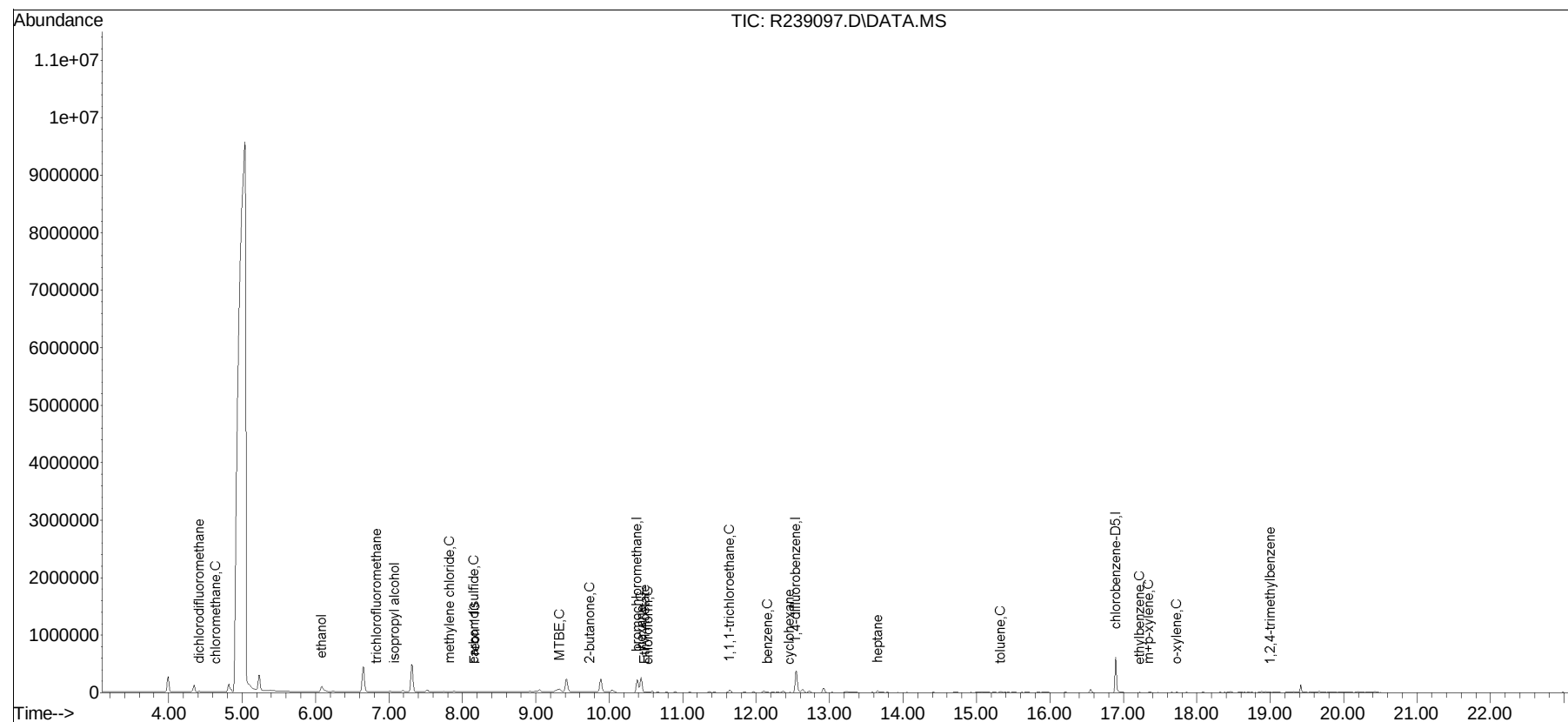
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239097.D
 Acq On : 19 Feb 2016 9:44 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-06, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 6 Sample Multiplier: 1

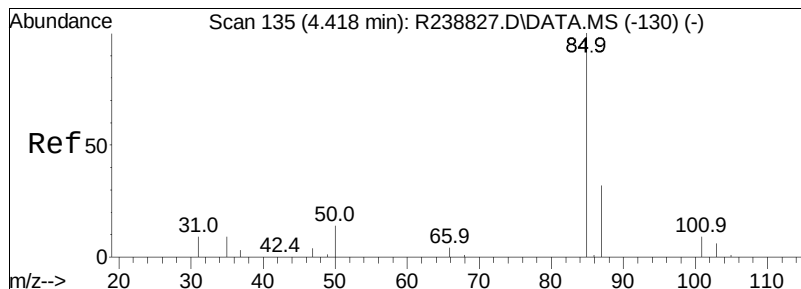
Quant Time: Feb 20 10:29:54 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



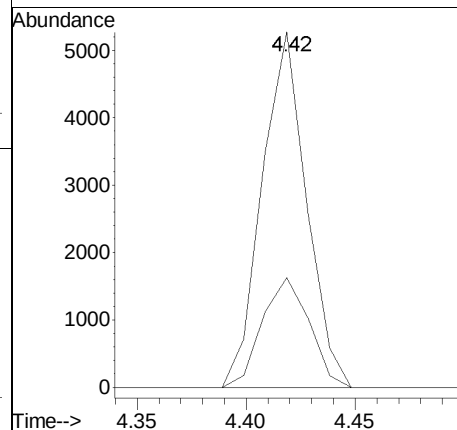
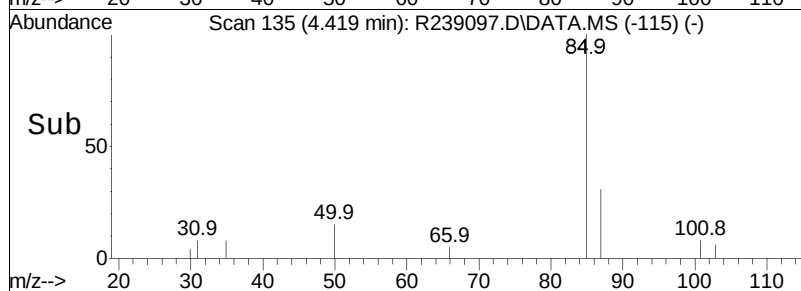
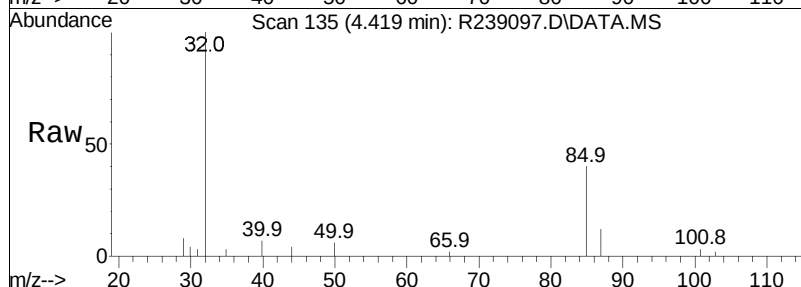
TALL160207.M Sat Feb 20 10:30:07 2016

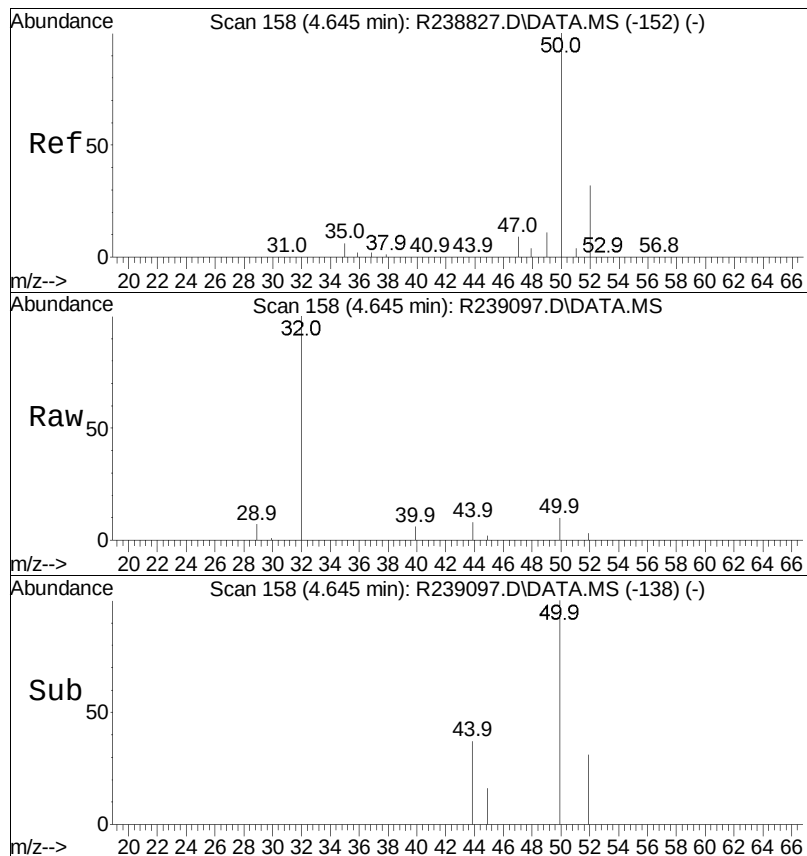
Page 4



#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

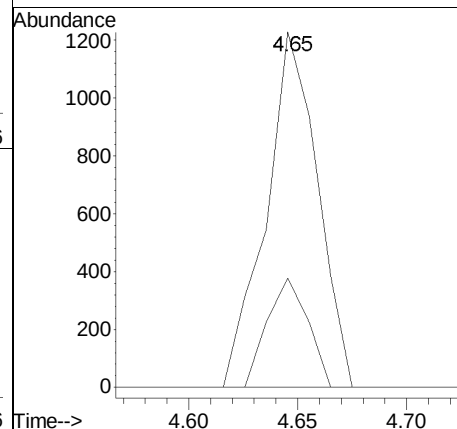
Tgt Ion: 85 Resp: 7467
Ion Ratio Lower Upper
85 100
87 30.9 25.8 38.8

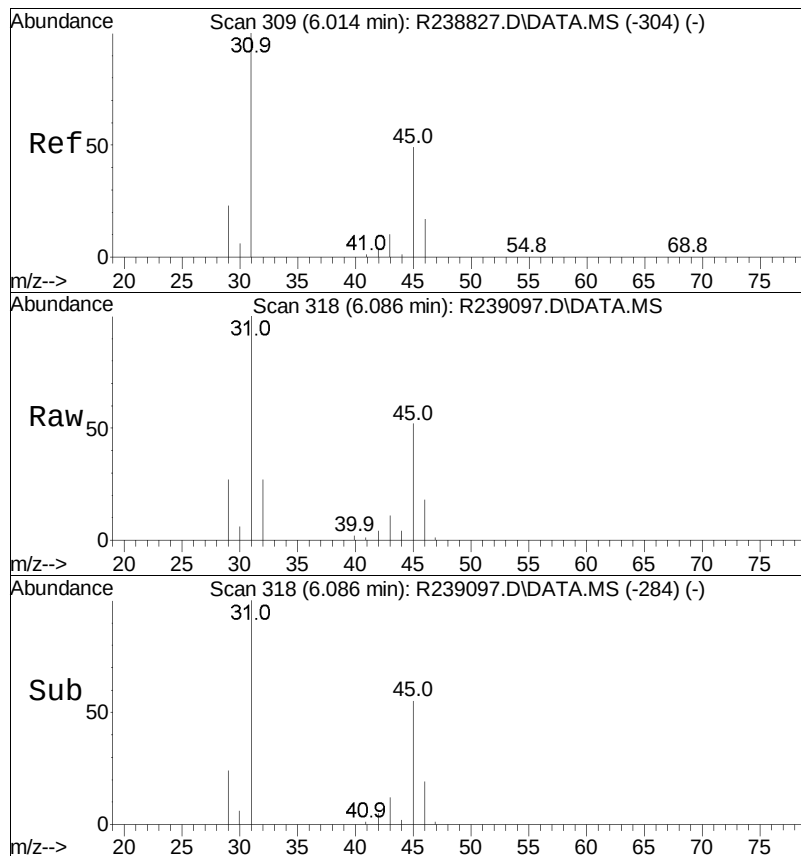




#6
 chloromethane
 Concen: 0.22 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

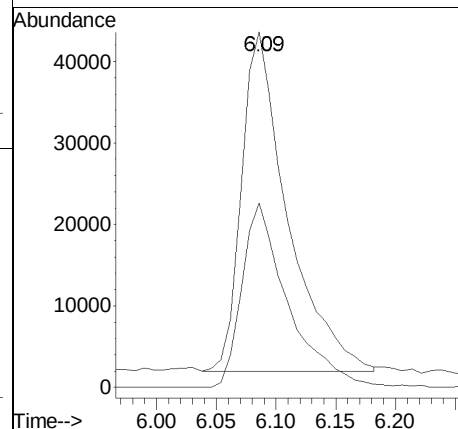
Tgt	Ion	Ratio	Lower	Upper
50	100			
52	30.8	25.5	38.3	

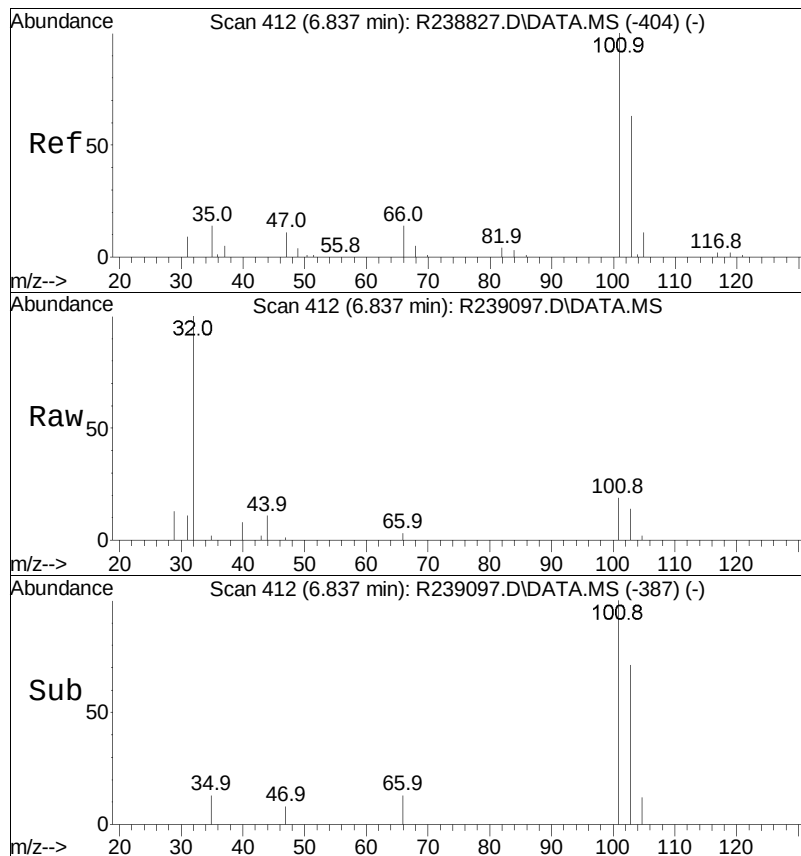




#15
 ethanol
 Concen: 13.79 ppbV
 RT: 6.09 min Scan# 318
 Delta R.T. 0.072 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

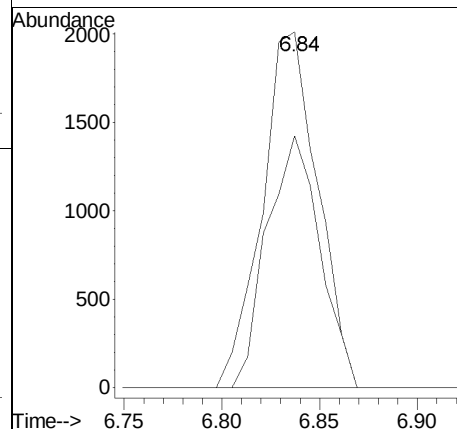
Tgt Ion	Ratio	Lower	Upper
31	100		
45	51.9	38.7	58.1

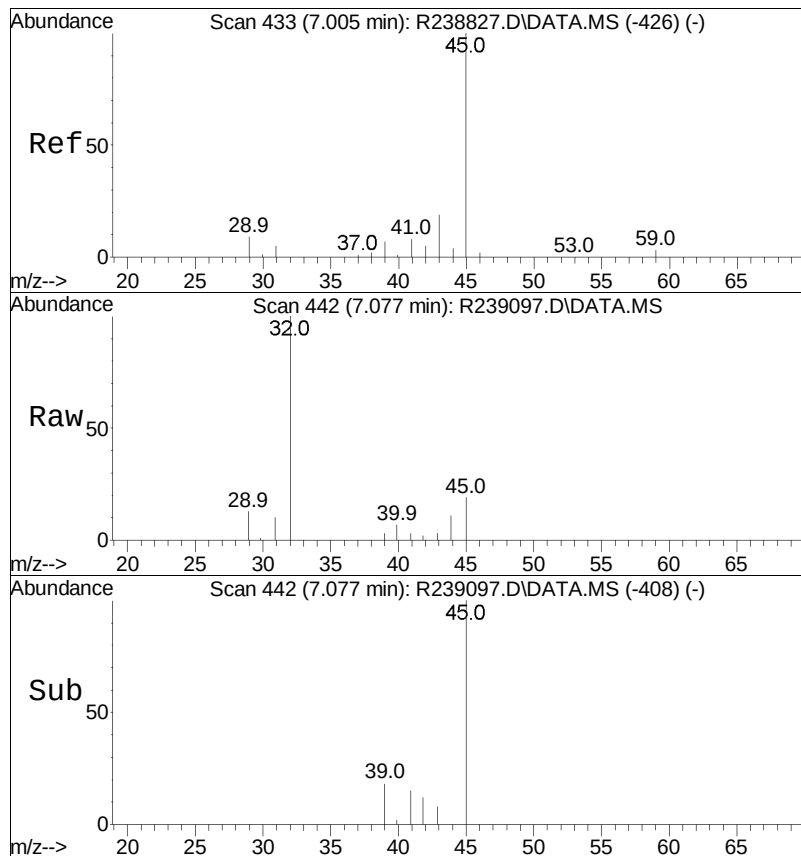




#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

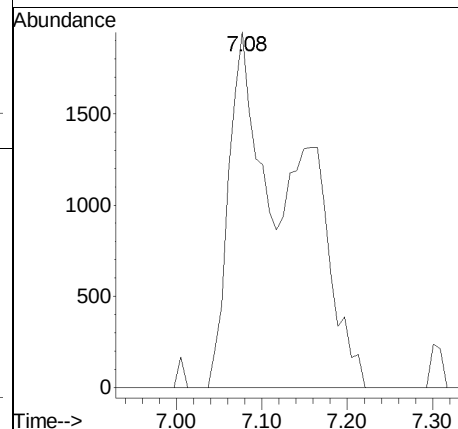
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	70.8	50.5	75.7

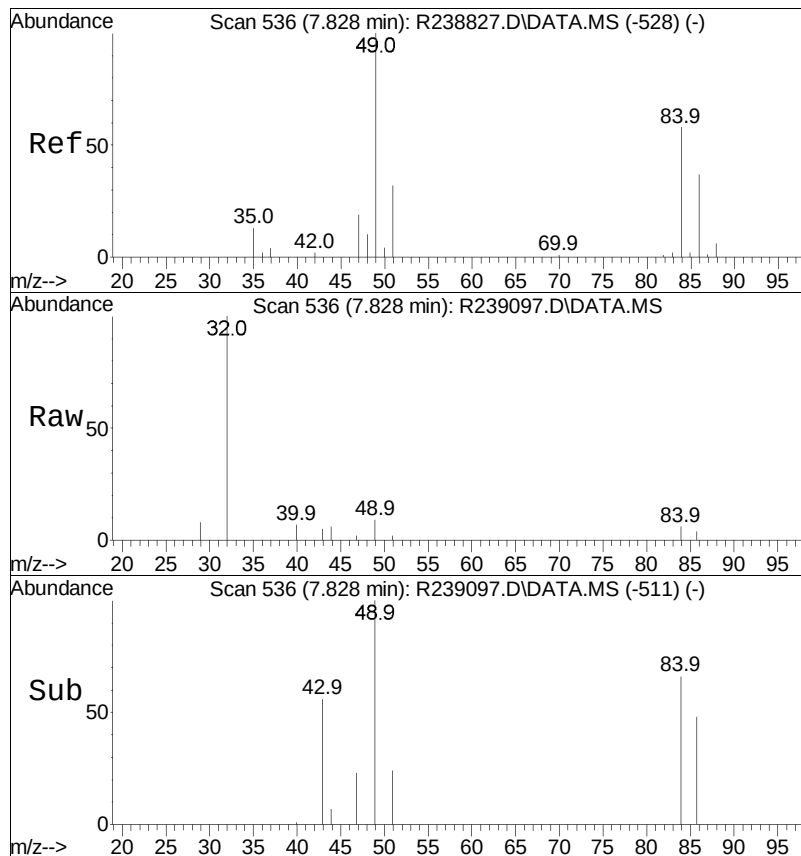




#22
 isopropyl alcohol
 Concen: 0.57 ppbV m
 RT: 7.08 min Scan# 442
 Delta R.T. 0.072 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

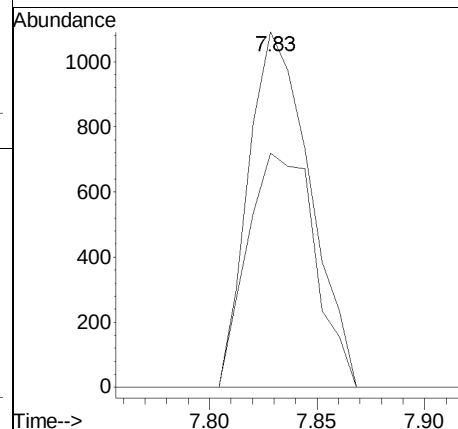
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.6	4.0#

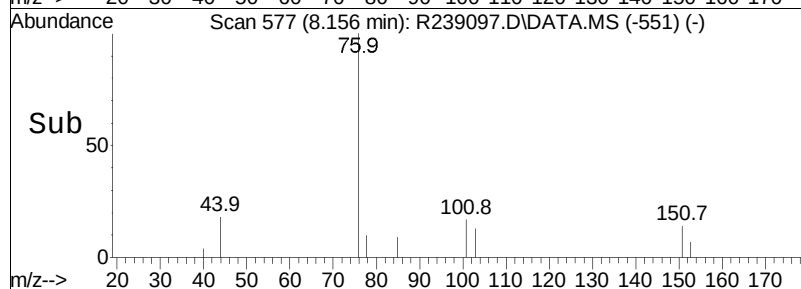
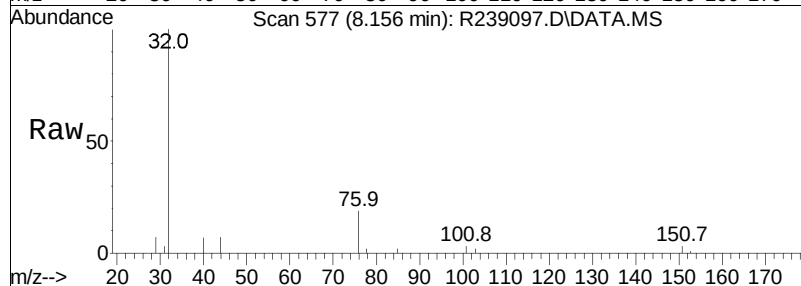
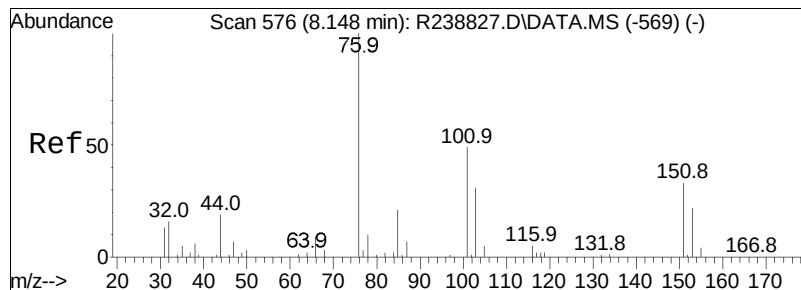




#28
 methylene chloride
 Concen: 0.17 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.000 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

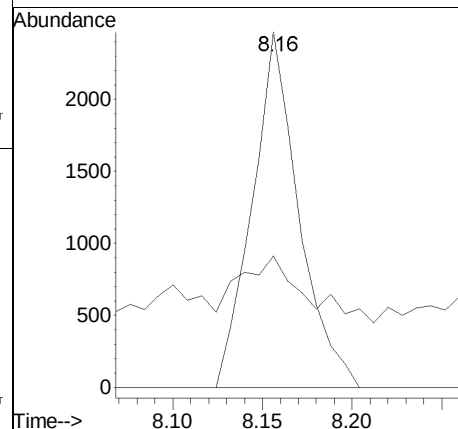
Tgt Ion	Ratio	Lower	Upper
49	100		
84	65.9	46.5	69.7

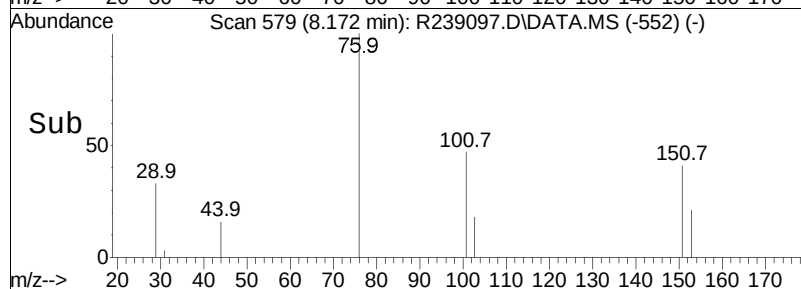
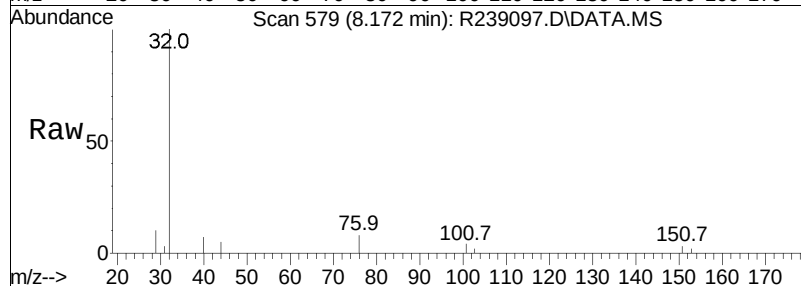
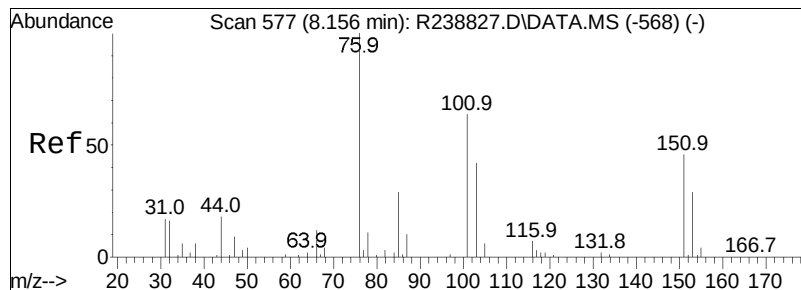




#30
carbon disulfide
Concen: 0.17 ppbV
RT: 8.16 min Scan# 577
Delta R.T. 0.008 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

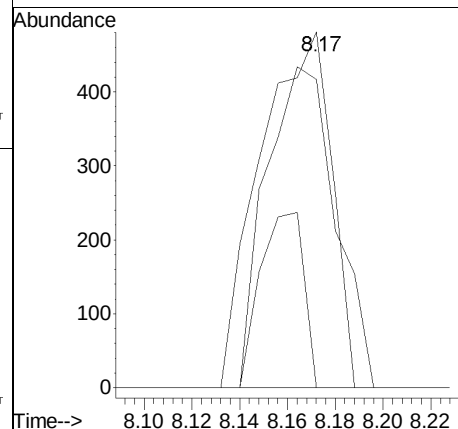
Tgt Ion:	76	Resp:	4455
Ion Ratio	100	Lower	Upper
44	37.0	15.8	23.6#

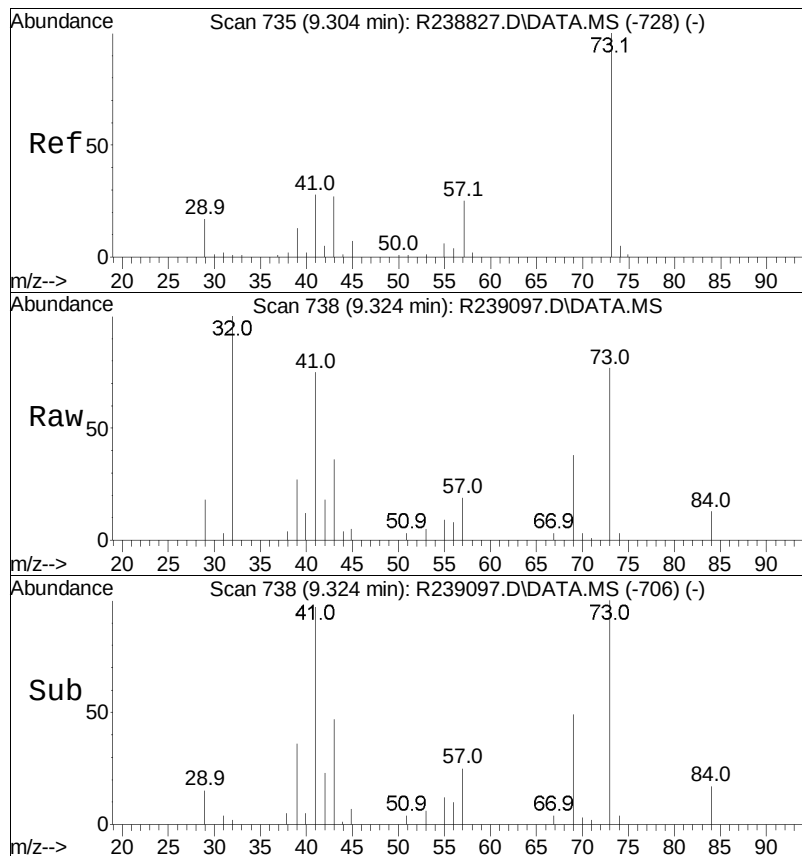




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 8.17 min Scan# 579
 Delta R.T. 0.016 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

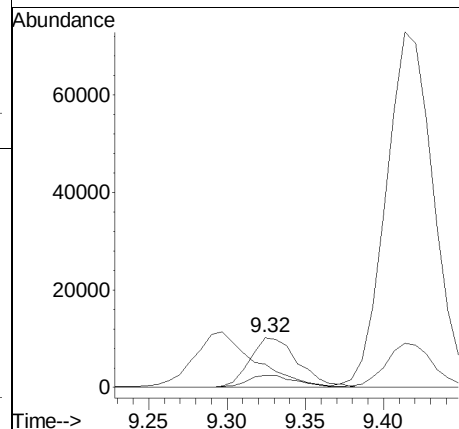
Tgt Ion	Ratio	Lower	Upper
101	100		
85	0.0	35.8	53.6#
151	86.7	57.4	86.2#

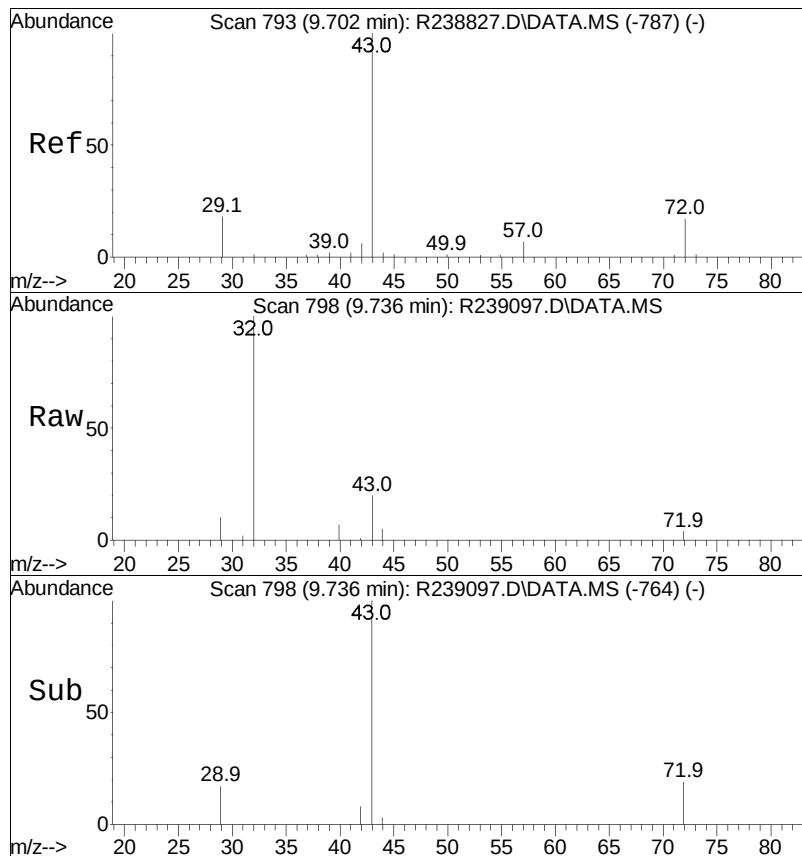




#34
 MTBE
 Concen: 0.84 ppbV
 RT: 9.32 min Scan# 738
 Delta R.T. 0.021 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

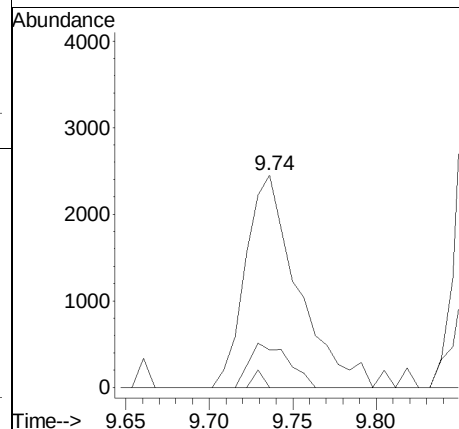
Tgt Ion:	73	Resp:	21810
Ion Ratio	Lower	Upper	
73	100		
57	24.5	19.9	29.9
43	46.7	21.9	32.9#

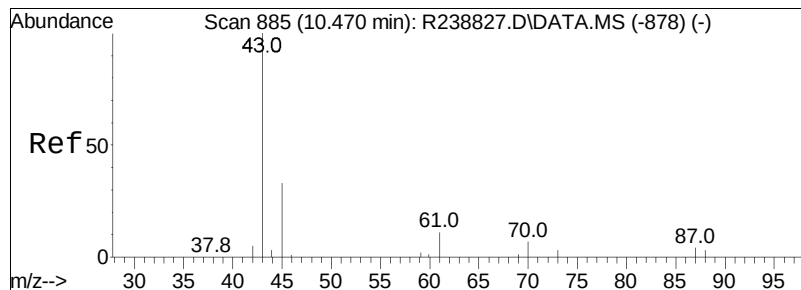




#36
 2-butanone
 Concen: 0.22 ppbV
 RT: 9.74 min Scan# 798
 Delta R.T. 0.034 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

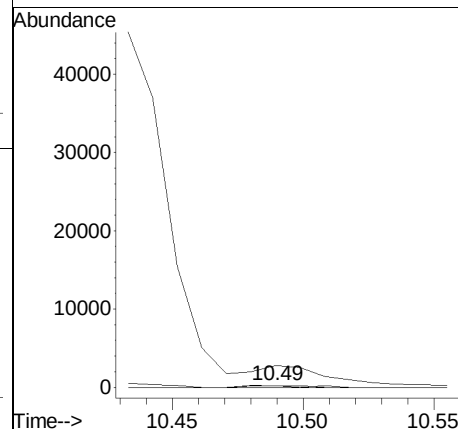
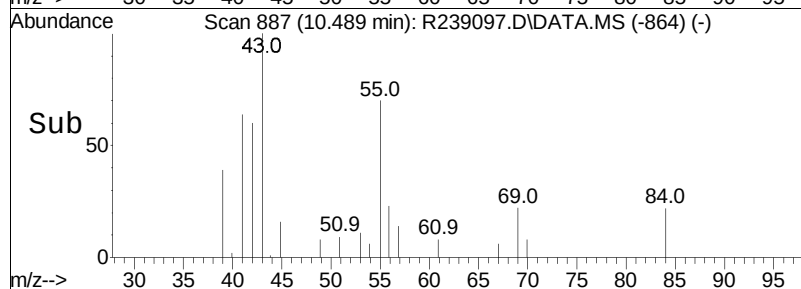
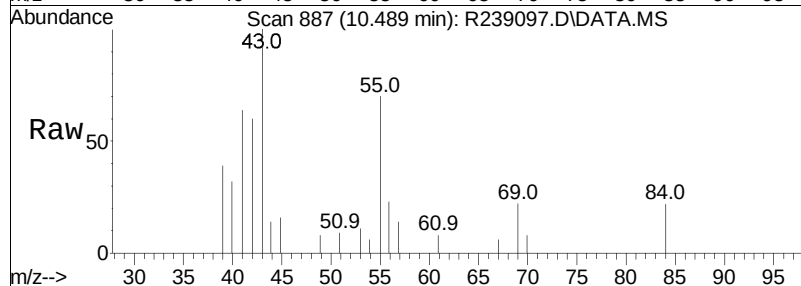
Tgt Ion	Ratio	Lower	Upper
43	100		
72	17.6	13.5	20.3
57	0.0	5.5	8.3

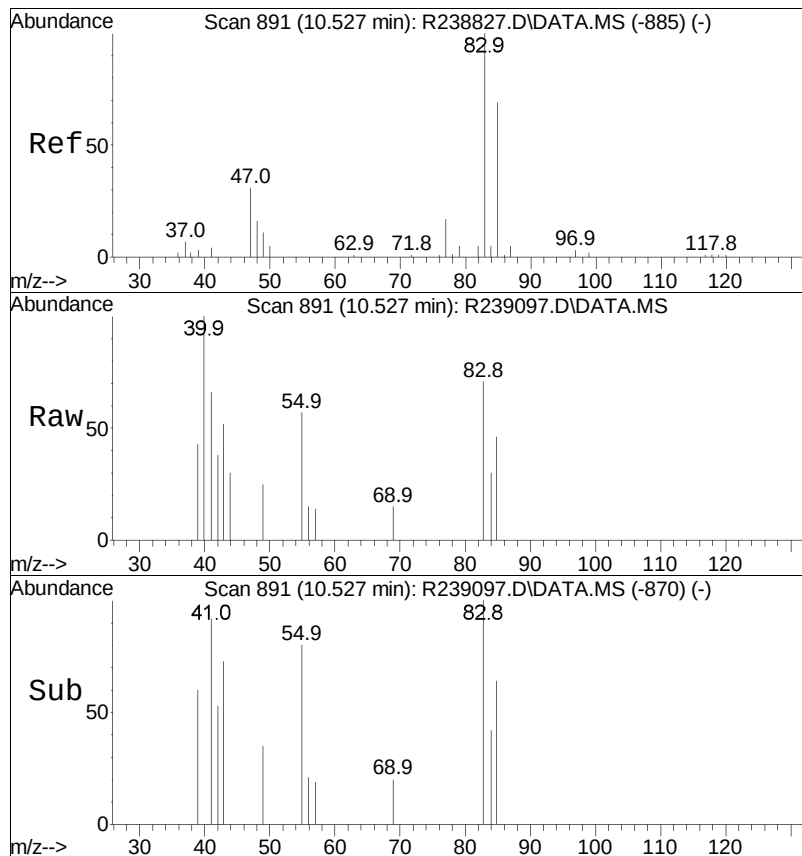




#38
 Ethyl Acetate
 Concen: 0.12 ppbV
 RT: 10.49 min Scan# 887
 Delta R.T. 0.019 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

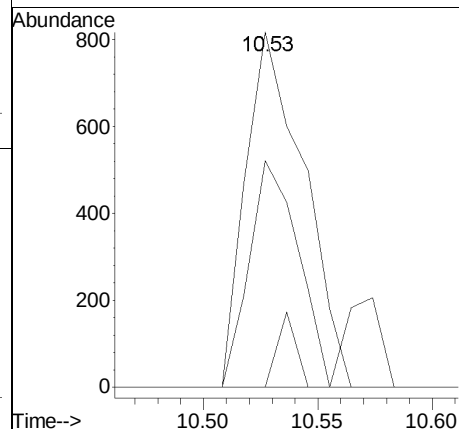
Tgt Ion	Ratio	Lower	Upper
61	100		
70	92.3	54.6	81.8#
43	1194.0	753.4	1130.0#

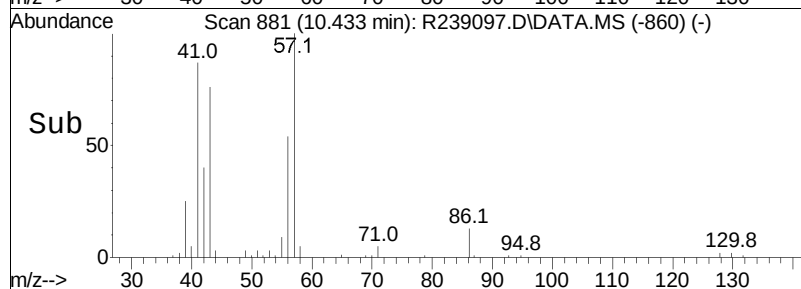
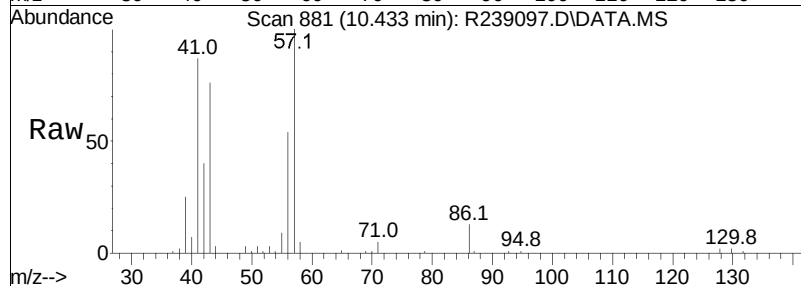
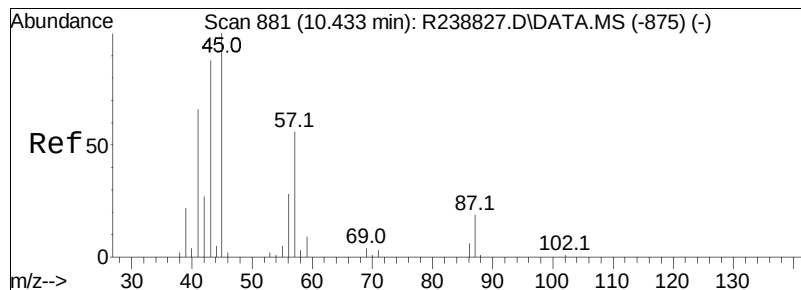




#39
chloroform
Concen: 0.08 ppbV
RT: 10.53 min Scan# 891
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

Tgt	Ion	Ratio	Lower	Upper
83	100			
85	63.8	55.1	82.7	
47	0.0	24.9	37.3#	





#44

hexane

Concen: 6.30 ppbV

RT: 10.43 min Scan# 881

Delta R.T. 0.000 min

Lab File: R239097.D

Acq: 19 Feb 2016 9:44 pm

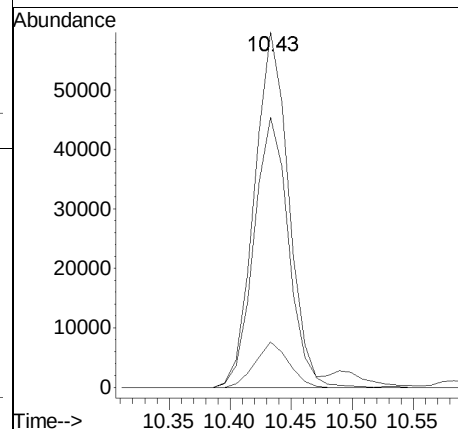
Tgt Ion: 57 Resp: 116621

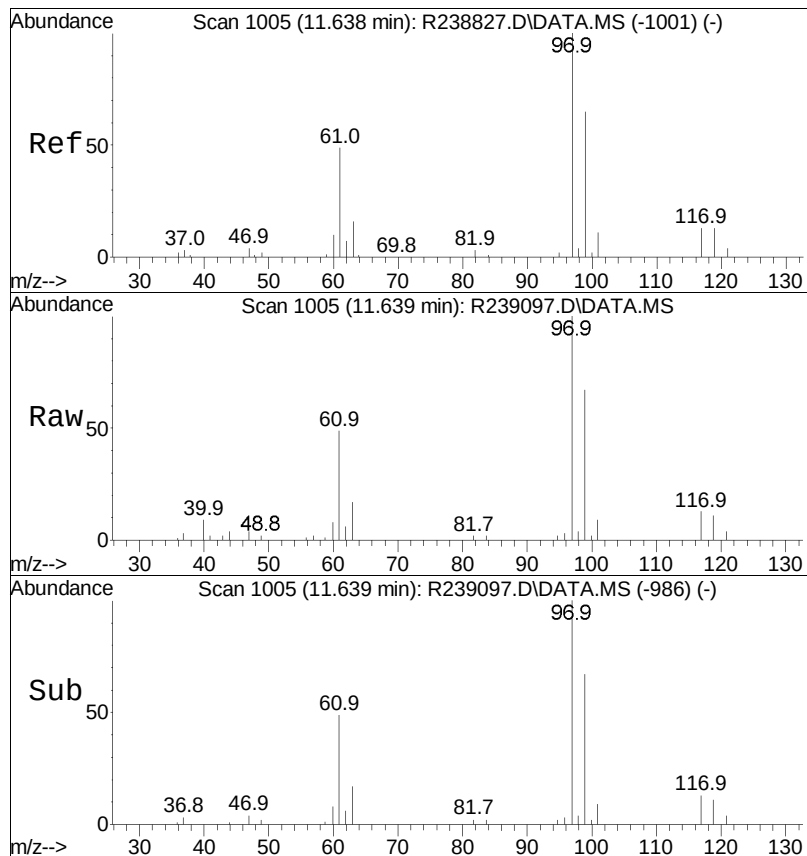
Ion Ratio Lower Upper

57 100

43 76.0 125.3 187.9#

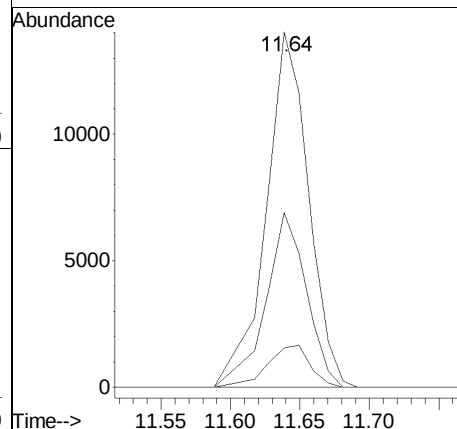
86 12.8 9.0 13.6

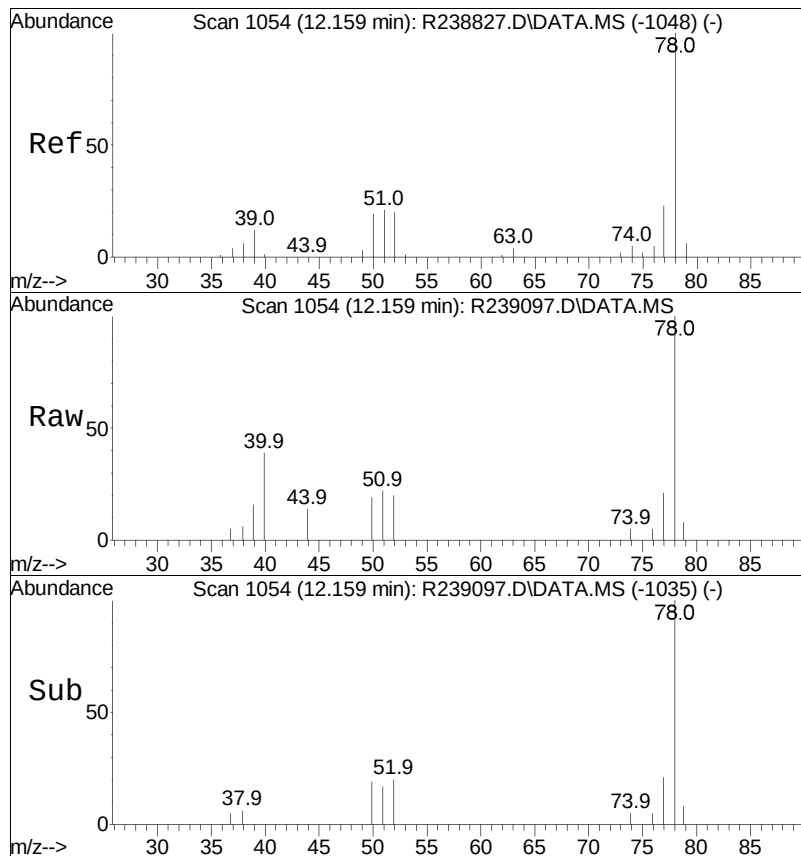




#48
 1,1,1-trichloroethane
 Concen: 1.28 ppbV
 RT: 11.64 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

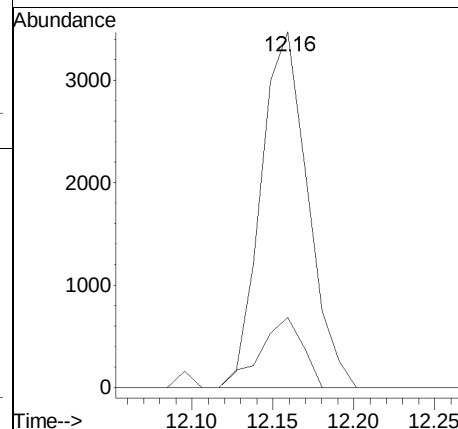
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	32895		
61	49.2		39.4	59.0
119	11.1		10.1	15.1

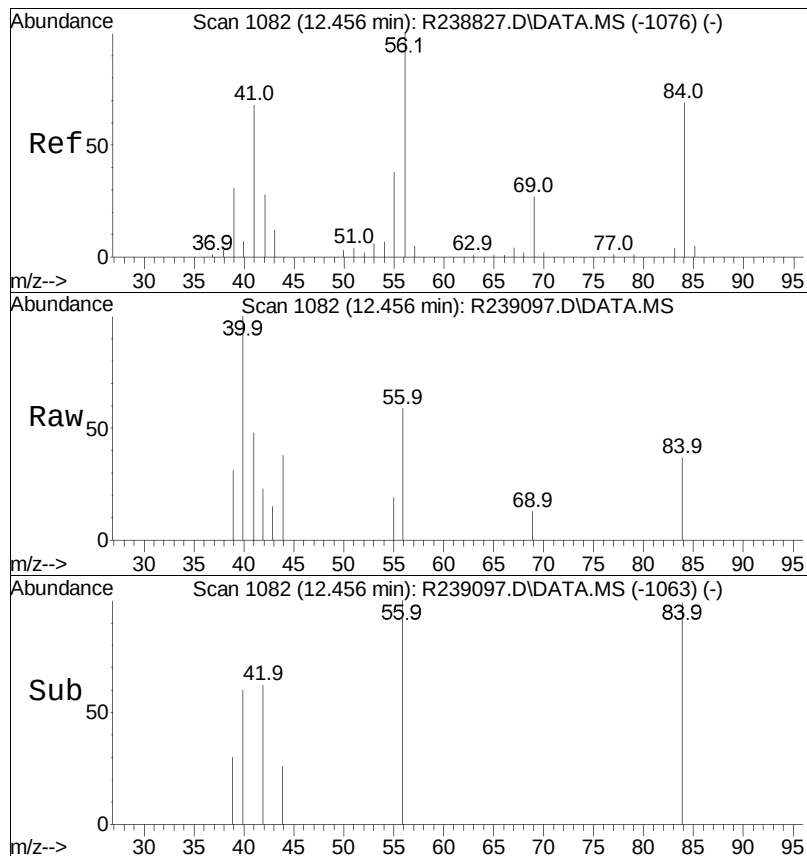




#50
benzene
Concen: 0.22 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

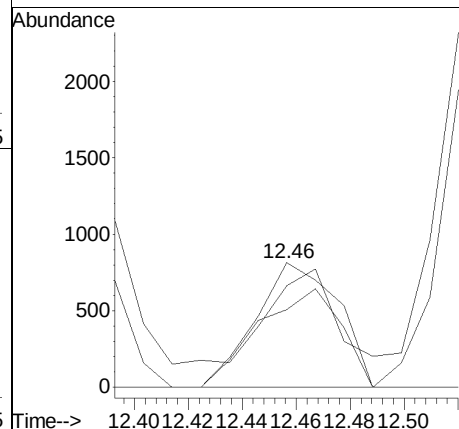
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.7	15.9	23.9

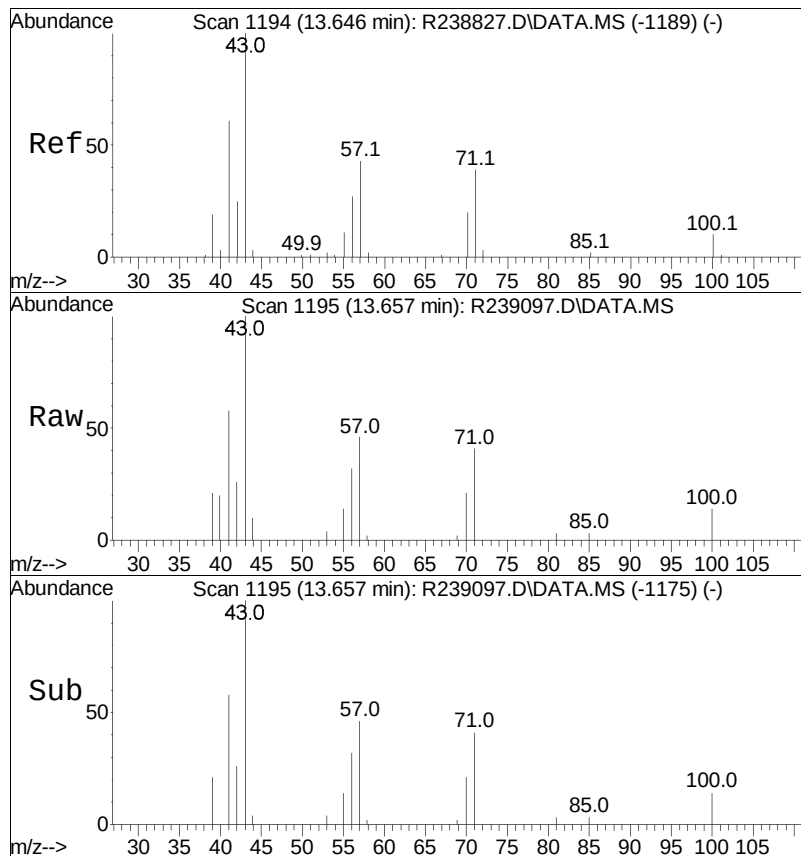




#53
cyclohexane
Concen: 0.09 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

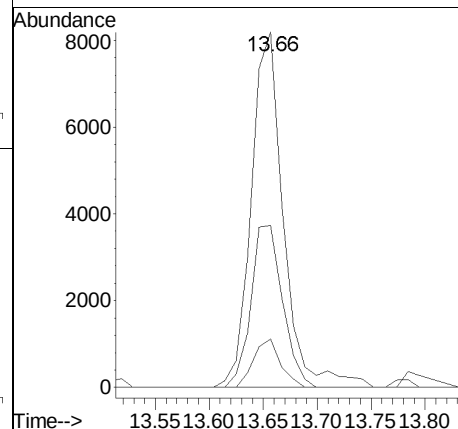
Tgt	Ion	Resp	Lower	Upper
56	100	1727		
84	62.3		56.2	84.4
41	81.5		54.6	82.0

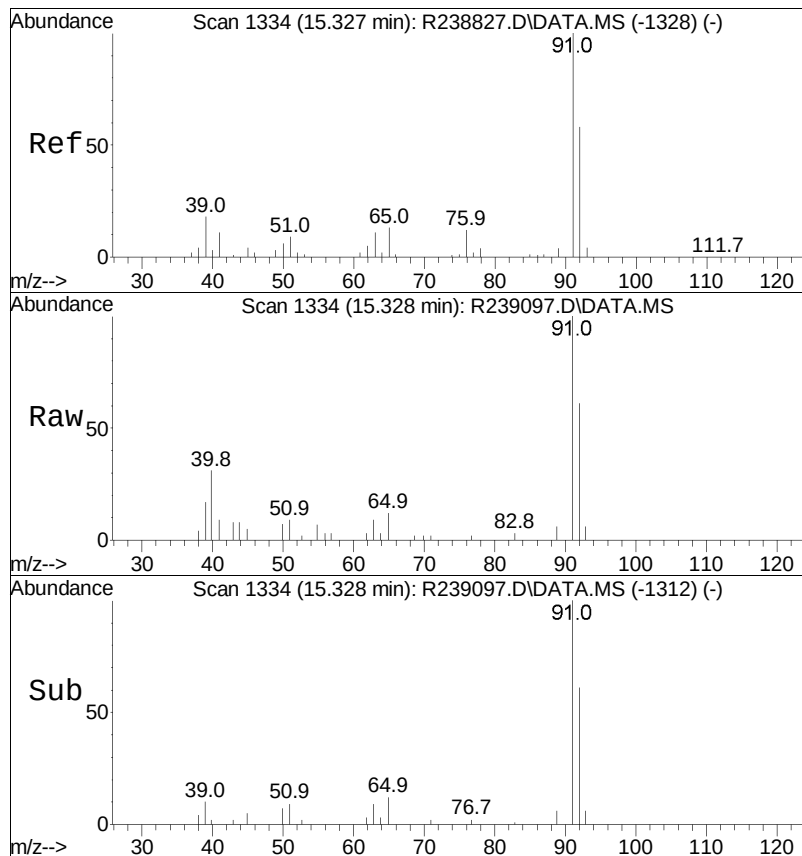




#62
 heptane
 Concen: 0.65 ppbV
 RT: 13.66 min Scan# 1195
 Delta R.T. 0.011 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

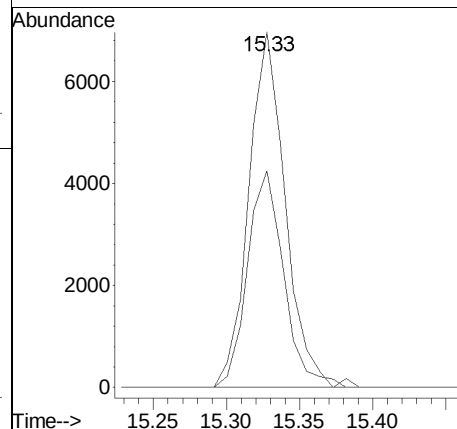
Tgt Ion:	43	57	100	Ratio	Lower	Upper
Resp:	17014					
Ratio	100	45.6	13.6			
Lower		34.4	8.4			
Upper		51.6	12.6			

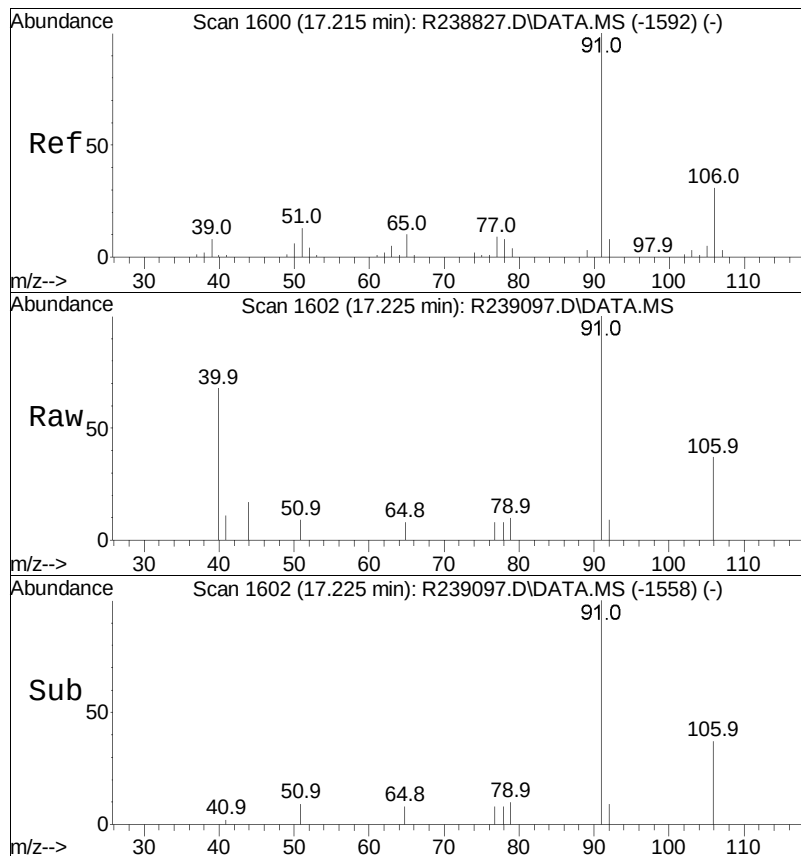




#68
toluene
Concen: 0.26 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

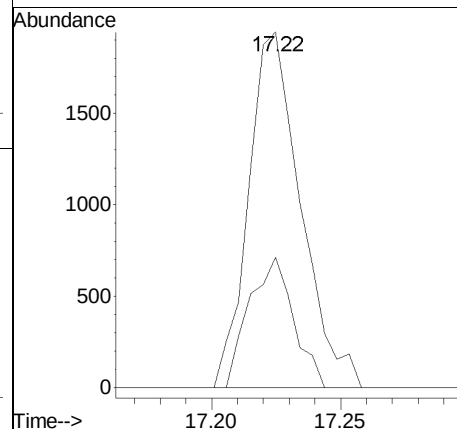
Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.9	46.7	70.1

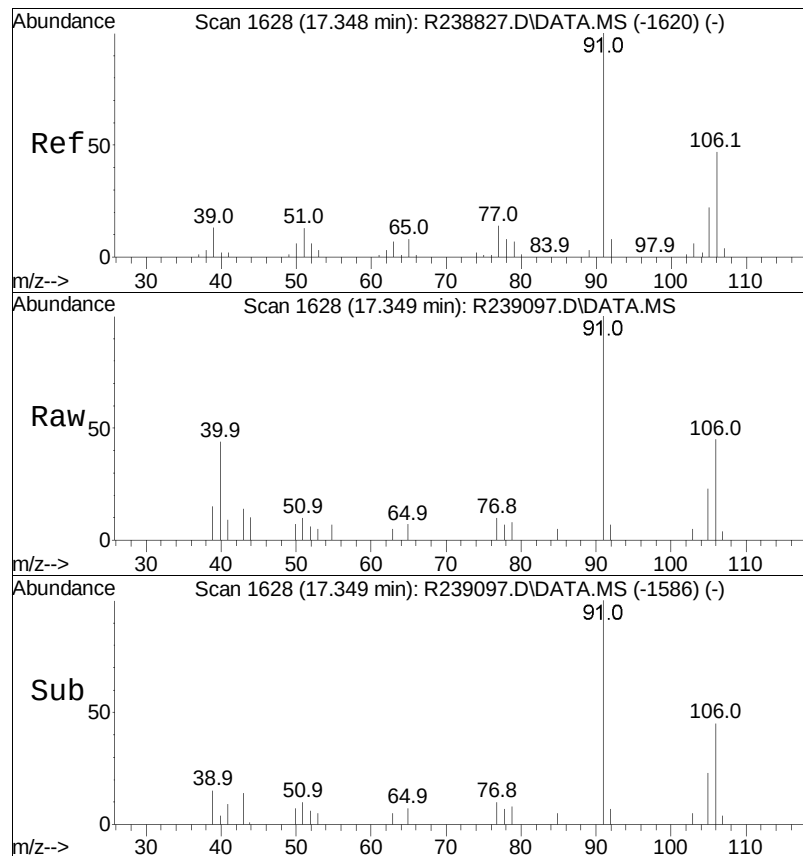




#81
ethylbenzene
Concen: 0.07 ppbV
RT: 17.22 min Scan# 1602
Delta R.T. 0.010 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

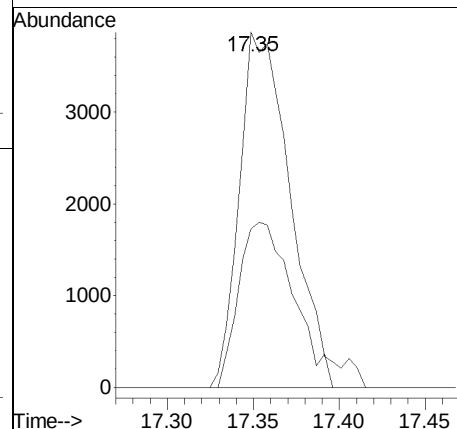
Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.6	24.5	36.7

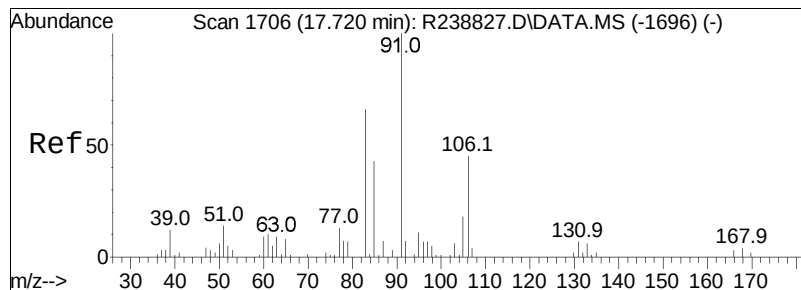




#83
 m+p-xylene
 Concen: 0.25 ppbV
 RT: 17.35 min Scan# 1628
 Delta R.T. 0.000 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

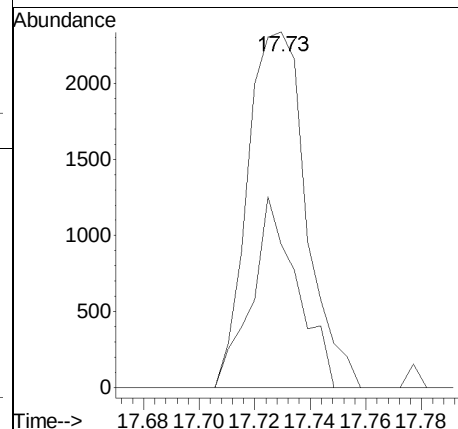
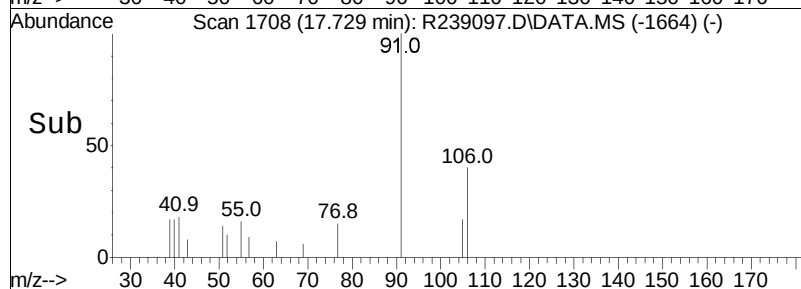
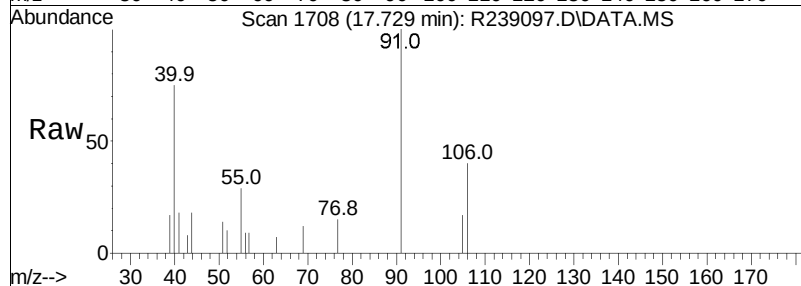
Tgt Ion: 91 Resp: 8209
 Ion Ratio Lower Upper
 91 100
 106 44.6 37.7 56.5

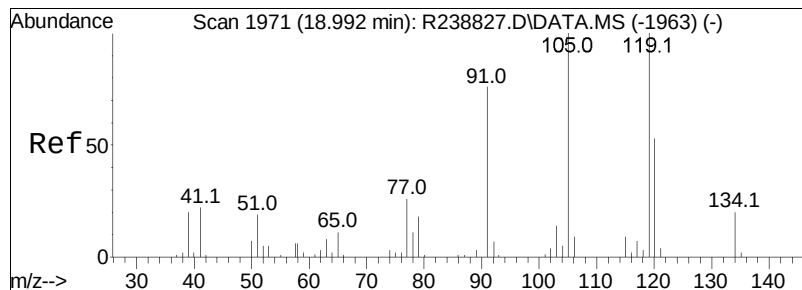




#87
o-xylene
Concen: 0.10 ppbV
RT: 17.73 min Scan# 1708
Delta R.T. 0.010 min
Lab File: R239097.D
Acq: 19 Feb 2016 9:44 pm

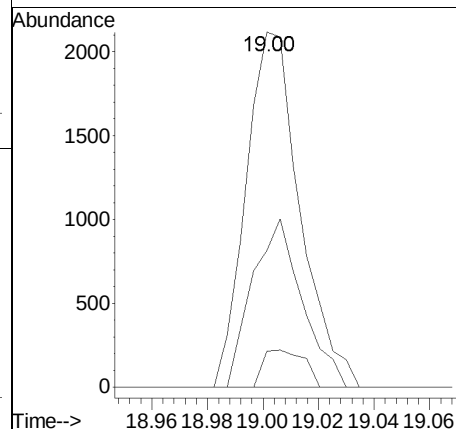
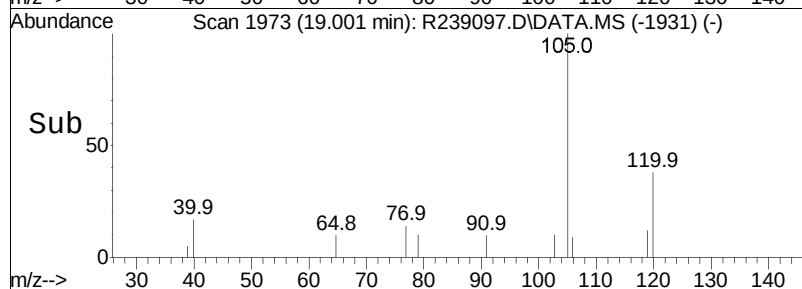
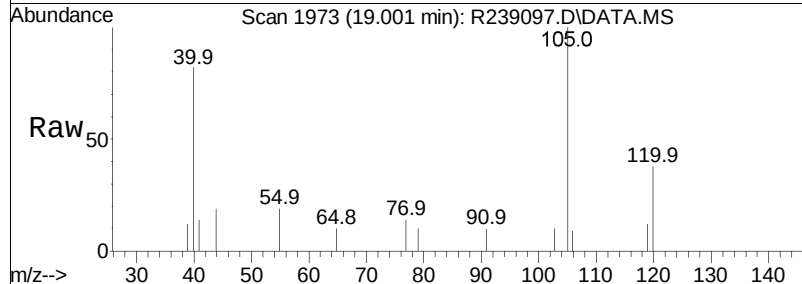
Tgt	Ion	Resp	Lower	Upper
91	100	3428		
106	40.2	35.8	53.6	





#99
 1,2,4-trimethylbenzene
 Concen: 0.07 ppbV
 RT: 19.00 min Scan# 1973
 Delta R.T. 0.010 min
 Lab File: R239097.D
 Acq: 19 Feb 2016 9:44 pm

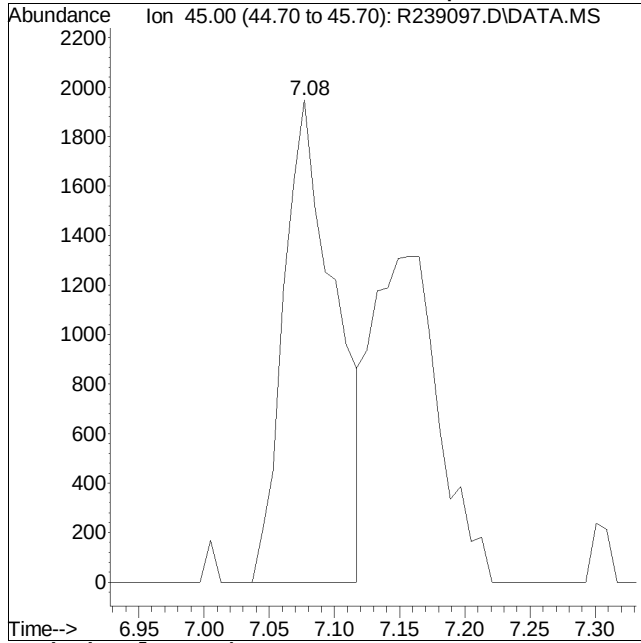
Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.5	42.2	63.4#
91	10.2	61.1	91.7#



Manual Integration/Negative Proof Report

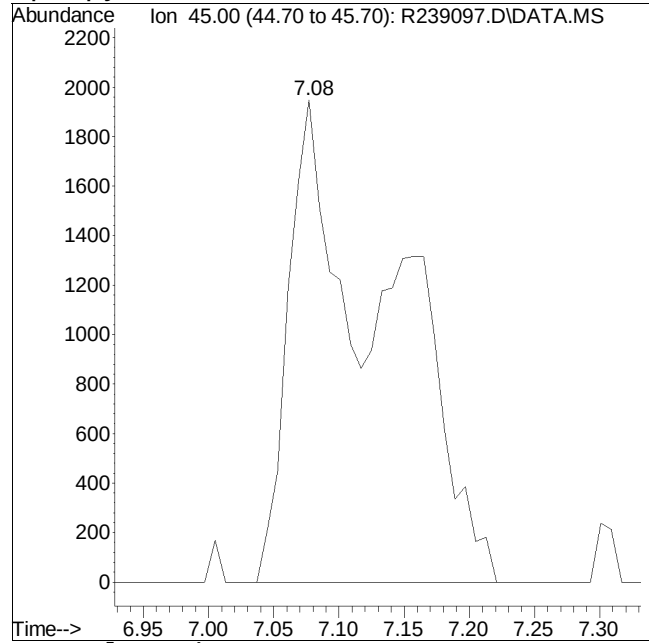
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R239097.D
Date Inj'd : 2/19/2016 9:44 pm
Sample : L1604136-06,3,250,250
Method : TALL160207.M
Operator : AIRPIAN02:RY
Instrument : Air Piano 2
Quant Date : 2/19/2016 11:32 pm

Compound #22: isopropyl alcohol



Original Peak Response = 5384

M4 = Poor automated baseline construction.

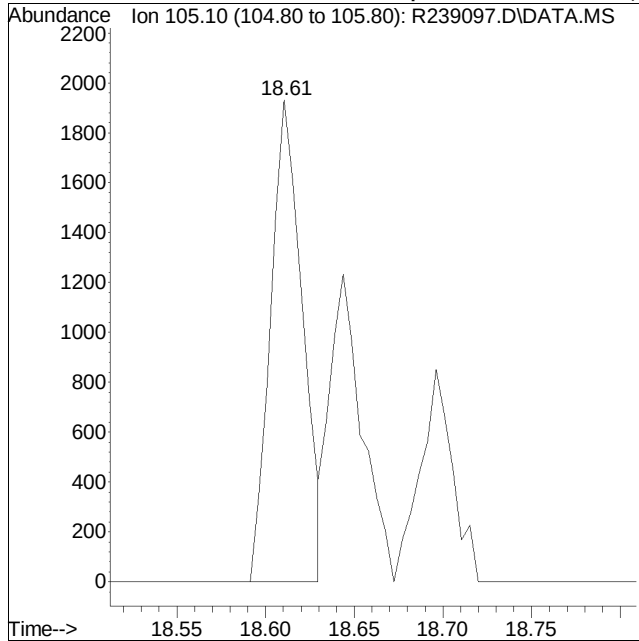


Manual Peak Response = 10146 M4

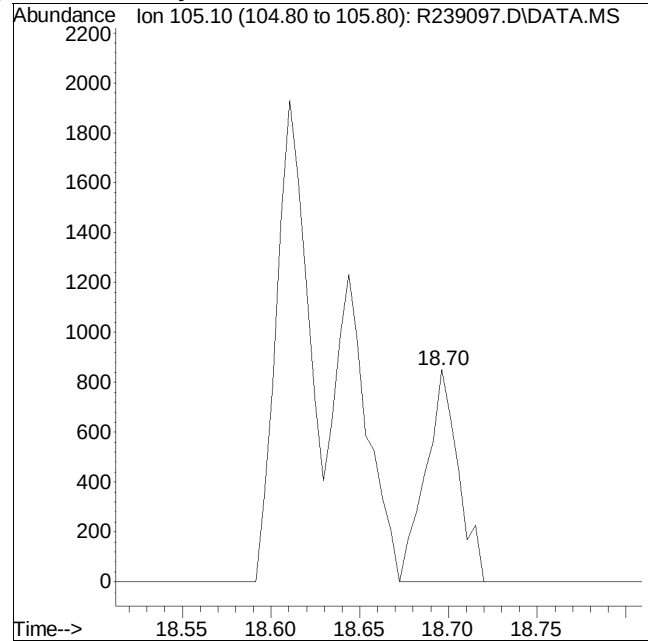
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239097.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 9:44 pm Instrument : Air Piano 2
Sample : L1604136-06,3,250,250 Quant Date : 2/19/2016 11:32 pm

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 2419



Manual Peak Response = 1089 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239098.D
 Acq On : 19 Feb 2016 10:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-07,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 10:31:19 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	140031	10.000	ppbV	0.00
Standard Area = 147221			Recovery =	95.12%		
43) 1,4-difluorobenzene	12.54	114	346221	10.000	ppbV	0.00
Standard Area = 368790			Recovery =	93.88%		
67) chlorobenzene-D5	16.89	54	74165	10.000	ppbV	0.00
Standard Area = 80342			Recovery =	92.31%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	8388	0.474	ppbV	97
6) chloromethane	4.65	50	1040	0.106	ppbV	98
7) Freon-114	4.79		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	5.16	54	7023	0.945	ppbV	95
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.09	31	29382M4	3.476	ppbV	
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.64	43	642112	39.140	ppbV #	98
21) trichlorofluoromethane	6.84	101	4289	0.193	ppbV	93
22) isopropyl alcohol	0.00		0	N.D.	d	
26) 1,1-dichloroethene	0.00		0	N.D.		
27) tertiary butyl alcohol	7.93	59	3742M4	0.175	ppbV	
28) methylene chloride	7.84	49	1461	0.108	ppbV #	83
29) 3-chloropropene	0.00		0	N.D.	d	
30) carbon disulfide	8.16	76	61733	2.263	ppbV	96
31) Freon 113	8.16	101	1038	0.055	ppbV #	86
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	9.73	43	45989	1.783	ppbV	97
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	10.49	61	6376	2.052	ppbV	89
39) chloroform	10.54	83	2938	0.148	ppbV #	87
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.43	57	60949	3.131	ppbV #	42

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239098.D
 Acq On : 19 Feb 2016 10:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-07,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 10:31:19 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

48) 1,1,1-trichloroethane	11.64		0	N.D.		
50) benzene	12.16	78	12800	0.379	ppbV	94
52) carbon tetrachloride	12.33		0	N.D.		
53) cyclohexane	12.46	56	33466	1.607	ppbV	96
56) 1,2-dichloropropane	0.00		0	N.D.	d	
57) bromodichloromethane	0.00		0	N.D.	d	
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	13.34		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d	
62) heptane	13.66	43	27349	0.989	ppbV	91
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.	d	
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.	d	
68) toluene	15.33	91	22702	0.458	ppbV	96
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.36	166	1933	0.086	ppbV	99
80) chlorobenzene	0.00		0	N.D.	d	
81) ethylbenzene	17.22	91	2918	0.065	ppbV #	79
83) m+p-xylene	17.35	91	5742	0.166	ppbV	93
84) bromoform	0.00		0	N.D.		
85) styrene	0.00		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.	d	
87) o-xylene	17.72	91	1808	0.051	ppbV #	83
96) 4-ethyl toluene	18.64		0	N.D.		
97) 1,3,5-trimethylbenzene	18.70		0	N.D.		
99) 1,2,4-trimethylbenzene	19.00		0	N.D.		
101) Benzyl Chloride	19.00		0	N.D.		
102) 1,3-dichlorobenzene	0.00		0	N.D.		
103) 1,4-dichlorobenzene	0.00		0	N.D.		
107) 1,2-dichlorobenzene	19.45		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239098.D
 Acq On : 19 Feb 2016 10:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-07,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 10:31:19 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

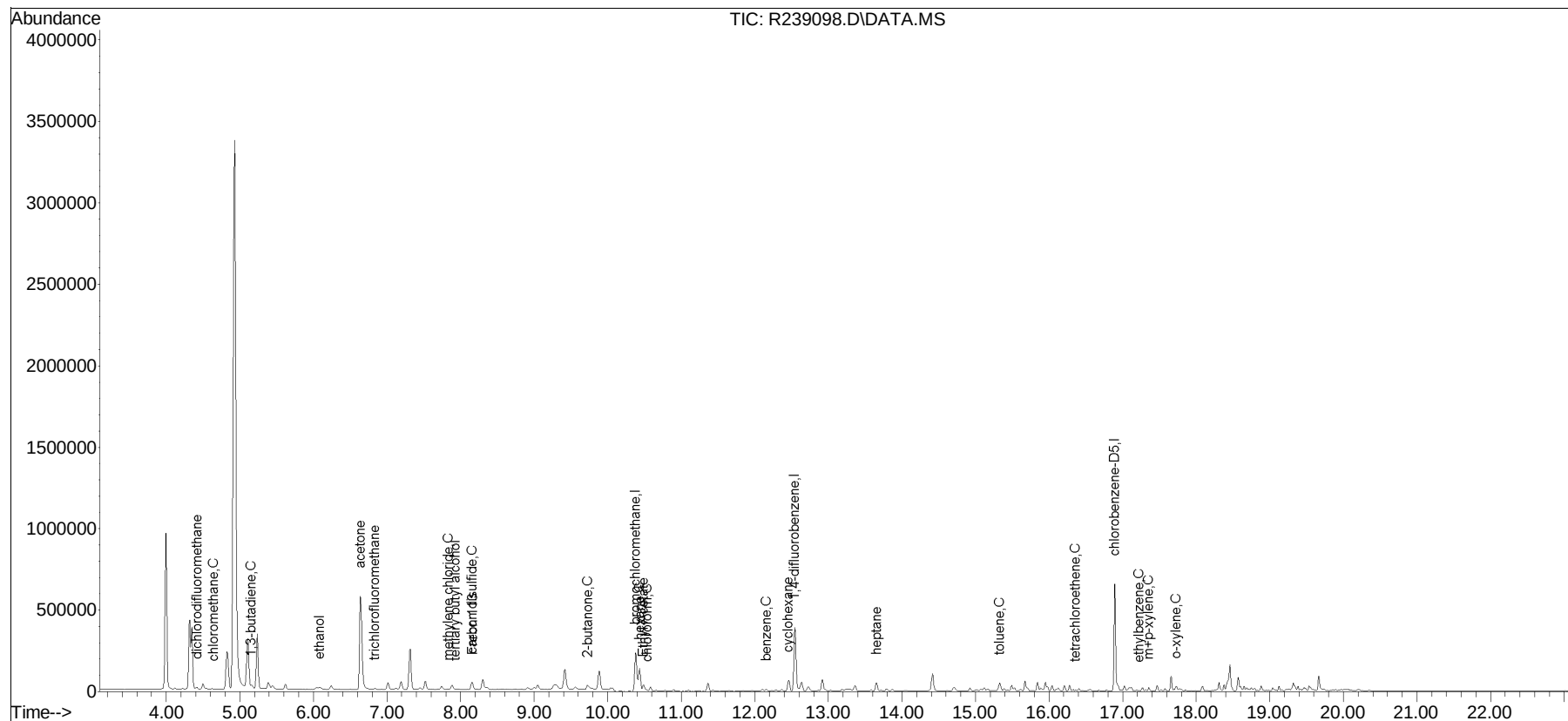
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
Data File : R239098.D
Acq On    : 19 Feb 2016  10:18 pm
Operator  : AIRPIAN02:RY
Sample    : L1604136-07,3,250,250
Misc      : WG866471,ICAL12008
ALS Vial  : 7      Sample Multiplier: 1
```

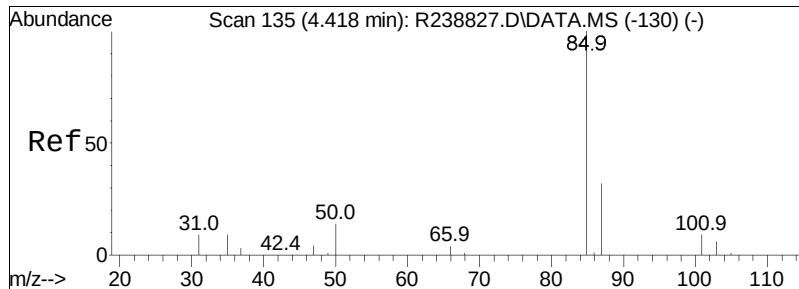
Quant Time: Feb 20 10:31:19 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 10:04:44 2016
Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



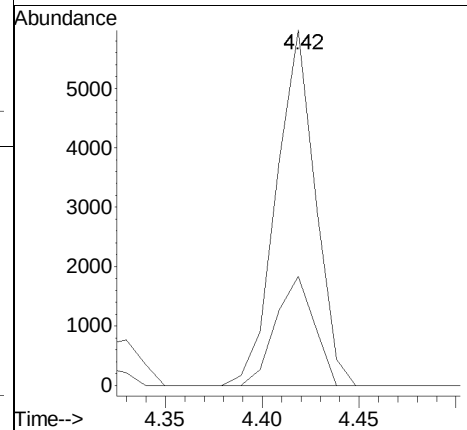
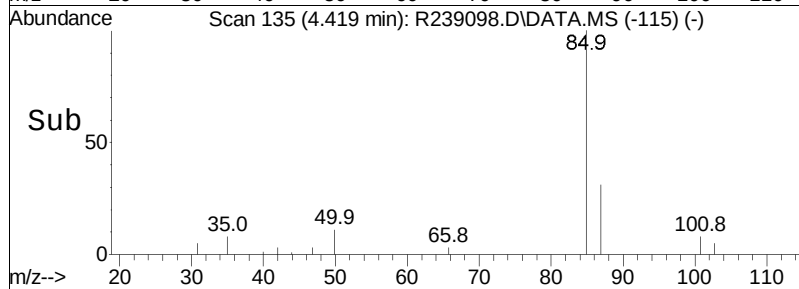
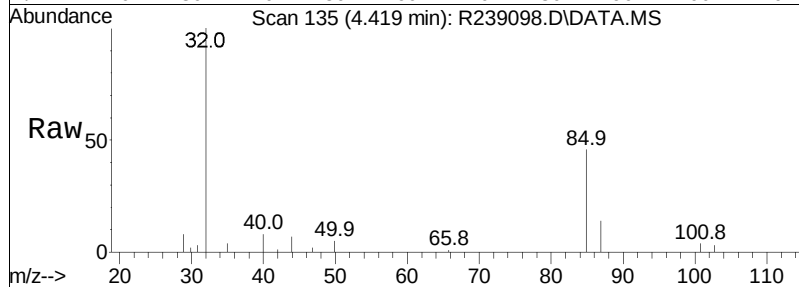
TALL160207.M Sat Feb 20 10:31:32 2016

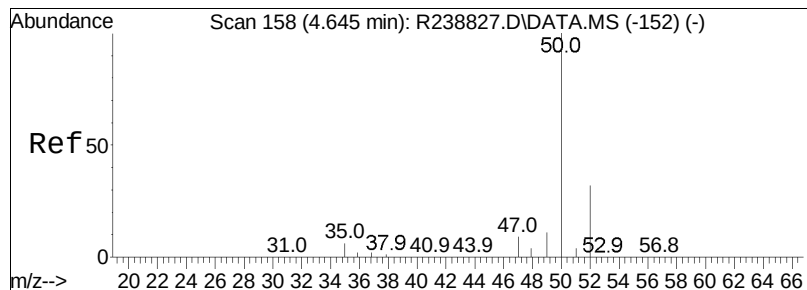
Page 4



#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

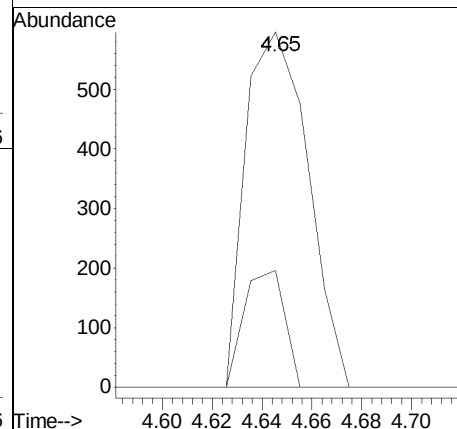
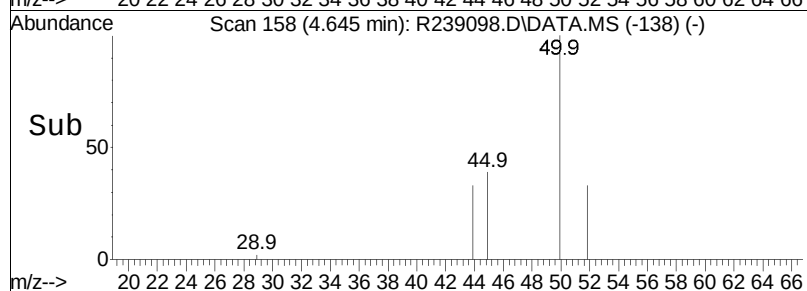
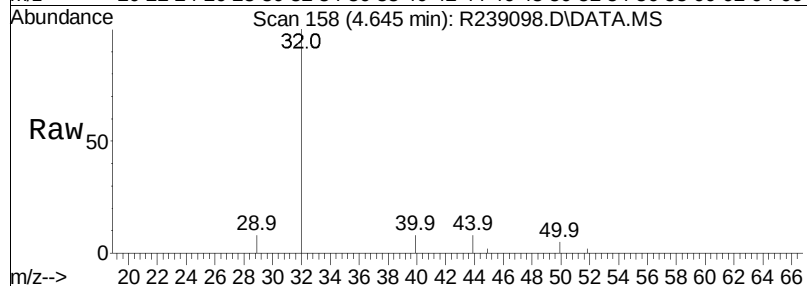
Tgt Ion: 85 Resp: 8388
Ion Ratio Lower Upper
85 100
87 30.7 25.8 38.8

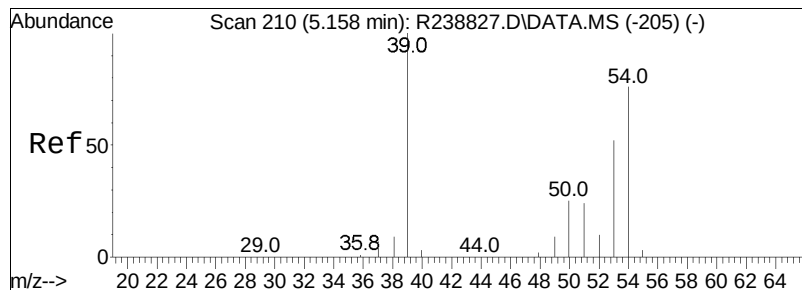




#6
 chloromethane
 Concen: 0.11 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

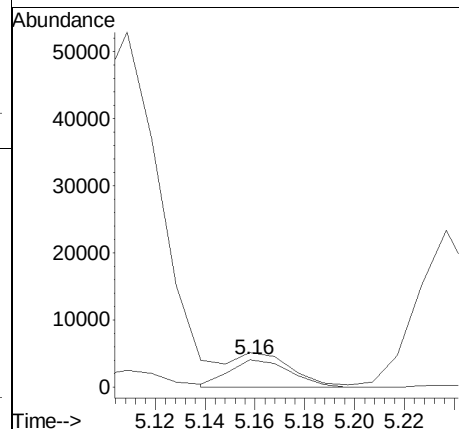
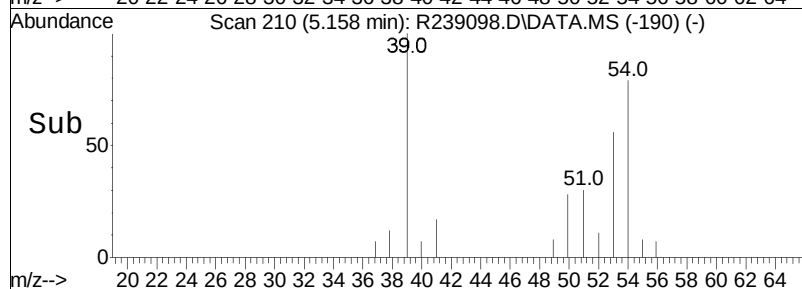
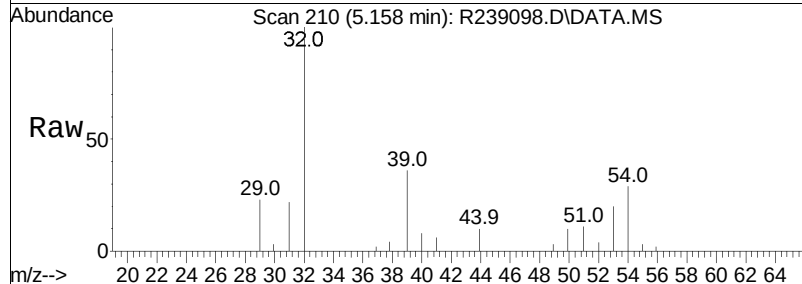
Tgt	Ion	Resp	Lower	Upper
50	100			
52	32.9	25.5	38.3	

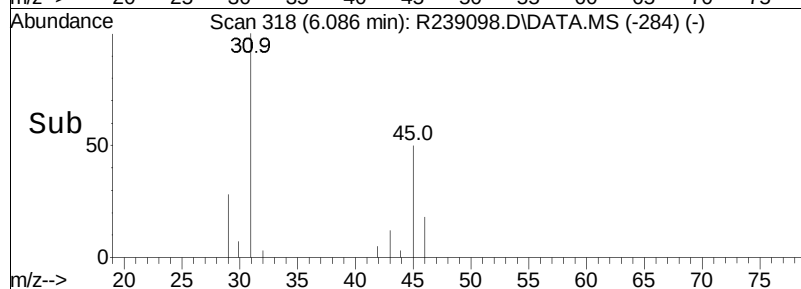
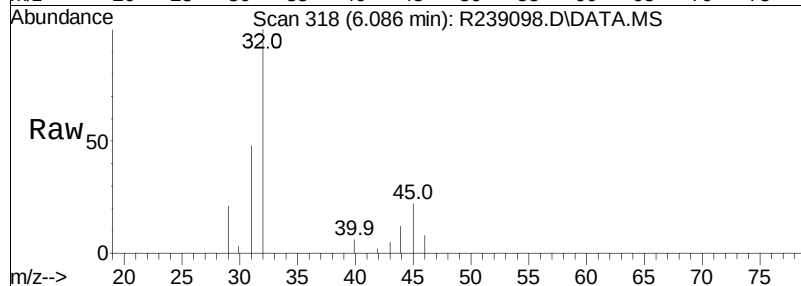
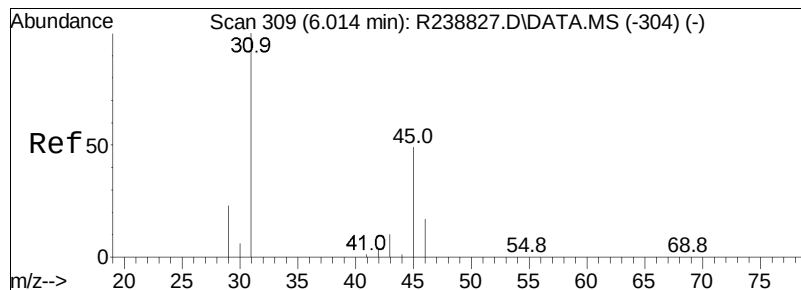




#10
 1,3-butadiene
 Concen: 0.94 ppbV
 RT: 5.16 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

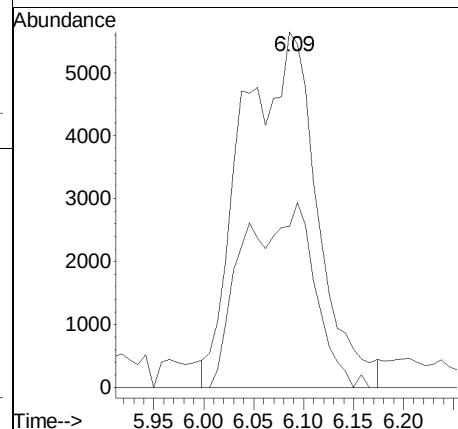
Tgt Ion	Ratio	Lower	Upper
54	100		
39	126.3	106.1	159.1

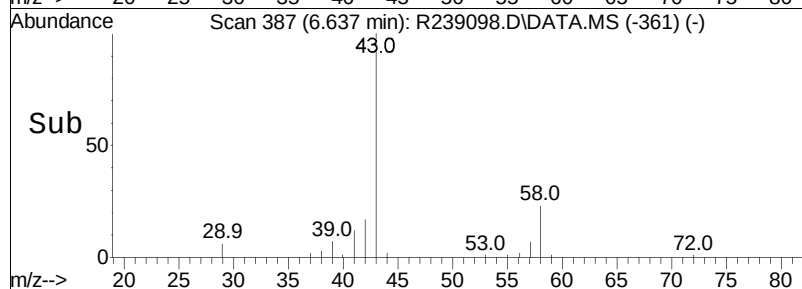
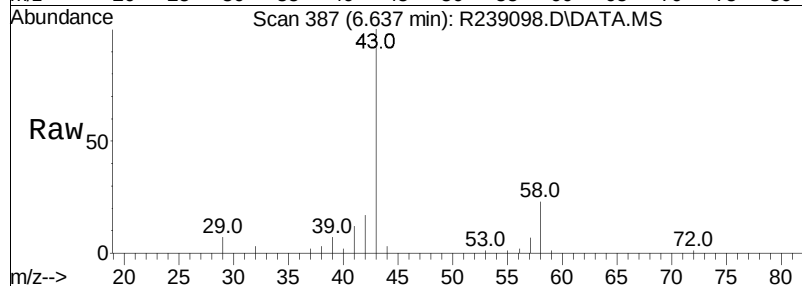
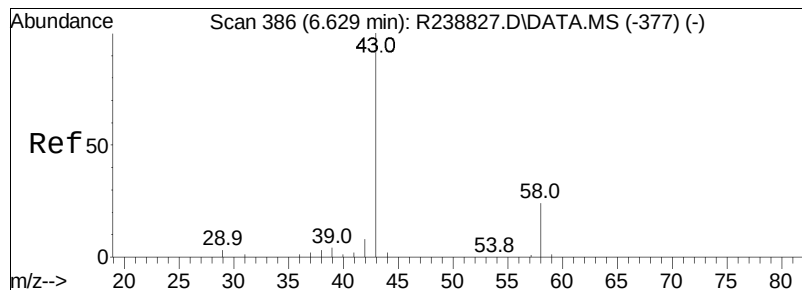




#15
ethanol
Concen: 3.48 ppbV m
RT: 6.09 min Scan# 318
Delta R.T. 0.072 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

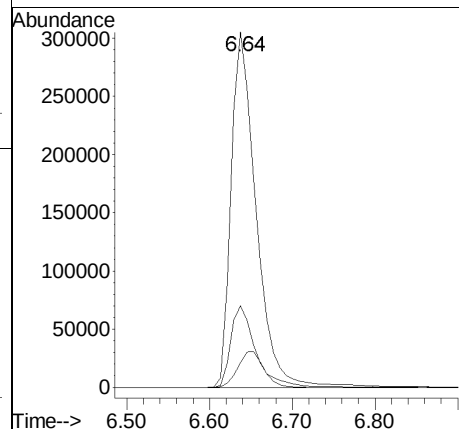
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	45.3	38.7	58.1	

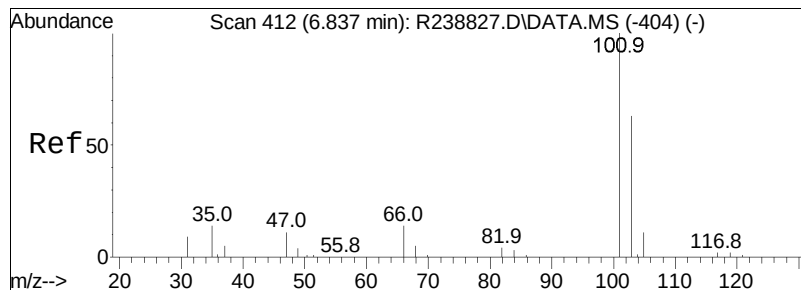




#19
acetone
Concen: 39.14 ppbV
RT: 6.64 min Scan# 387
Delta R.T. 0.008 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

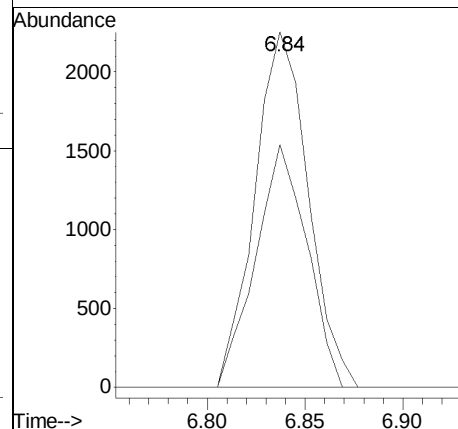
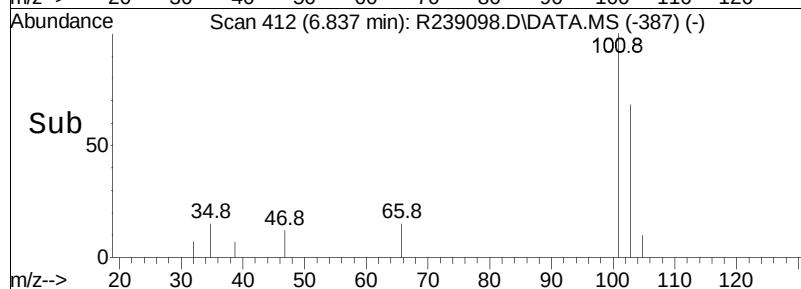
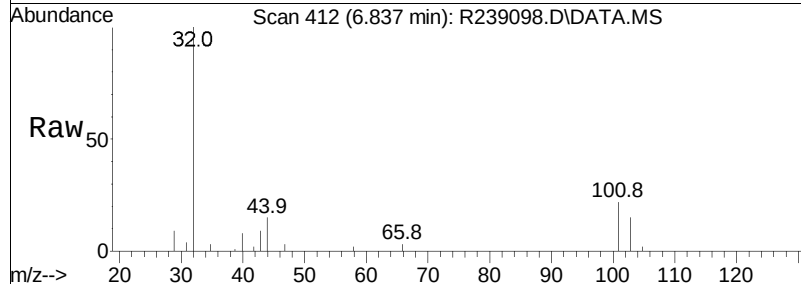
Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.0	19.2	28.8
57	7.0	0.6	1.0#

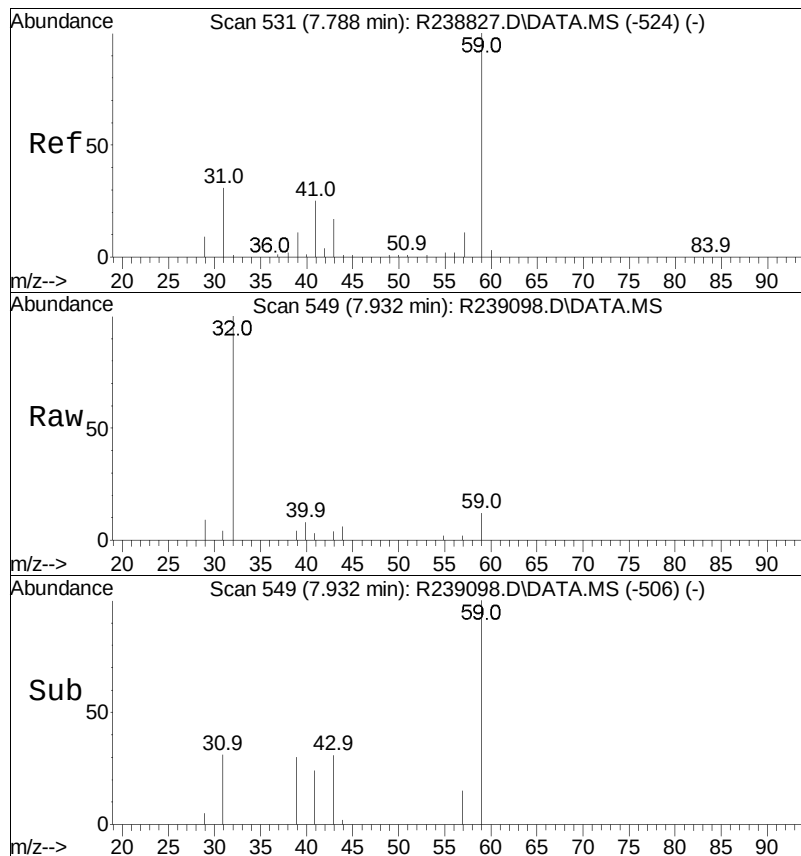




#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

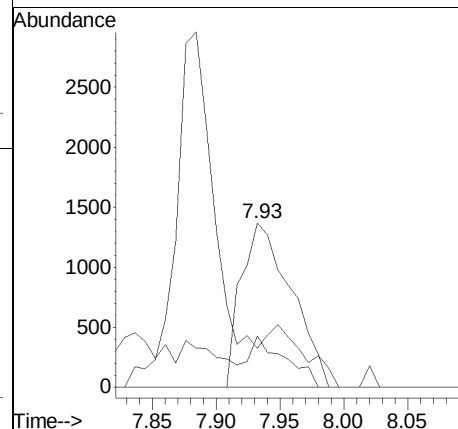
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	68.3	50.5	75.7

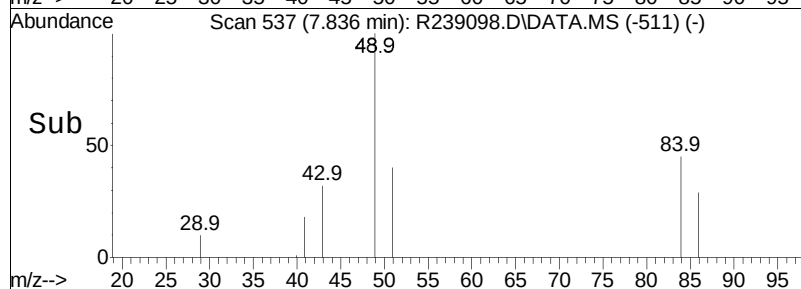
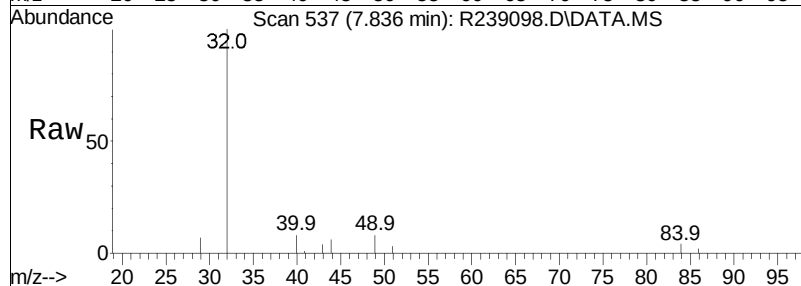
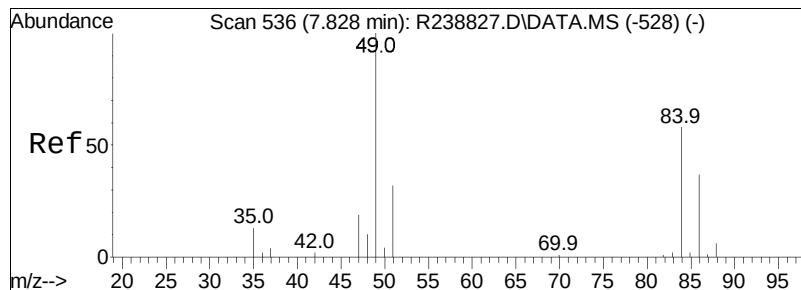




#27
 tertiary butyl alcohol
 Concen: 0.17 ppbV m
 RT: 7.93 min Scan# 549
 Delta R.T. 0.144 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

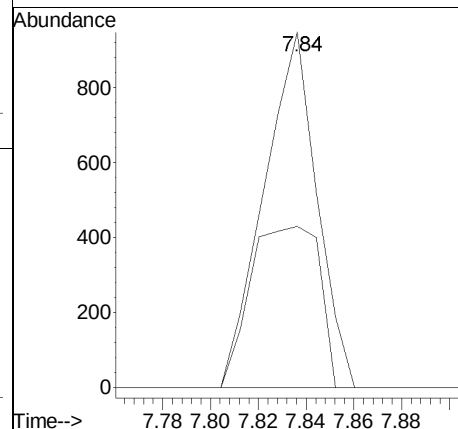
Tgt Ion:	59	Resp:	3742
Ion Ratio	Lower	Upper	
59	100		
41	23.8	20.5	30.7
43	31.2	13.8	20.8#

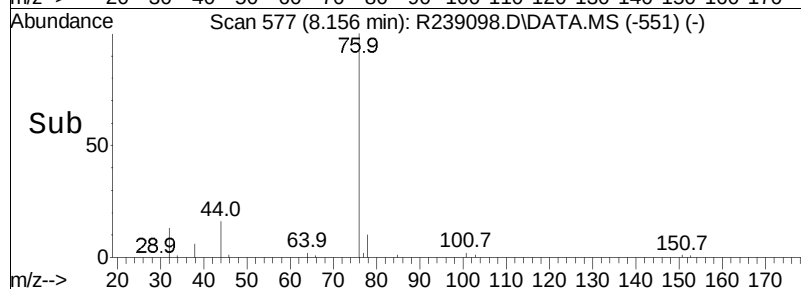
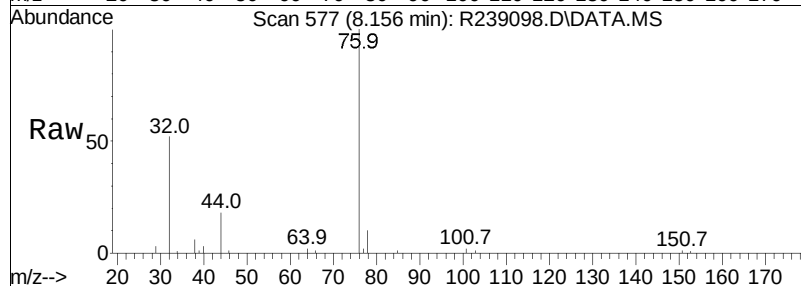
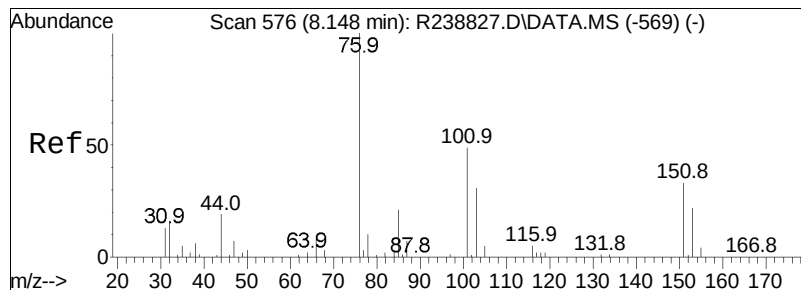




#28
 methylene chloride
 Concen: 0.11 ppbV
 RT: 7.84 min Scan# 537
 Delta R.T. 0.008 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

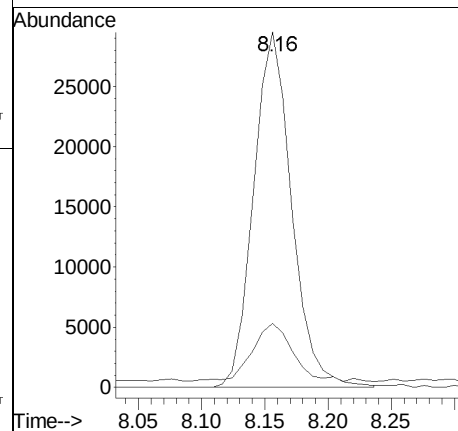
Tgt Ion:	49	Resp:	1461
Ion Ratio	100	Lower	Upper
84	45.4	46.5	69.7#

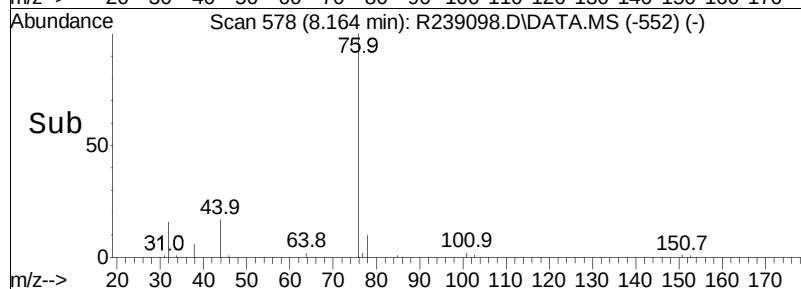
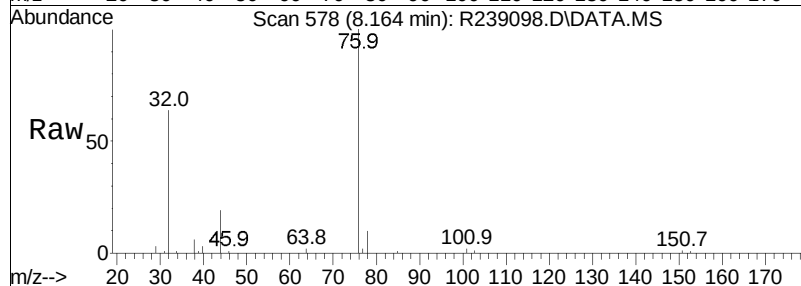
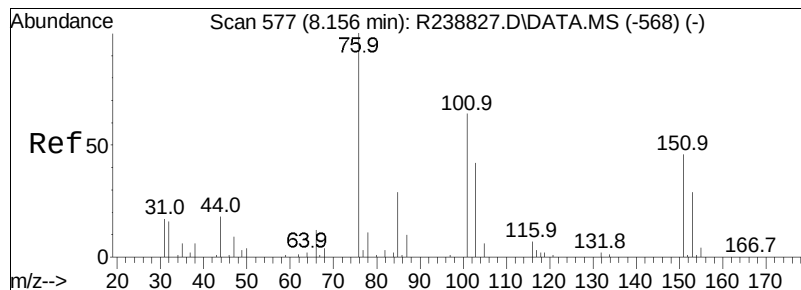




#30
carbon disulfide
Concen: 2.26 ppbV
RT: 8.16 min Scan# 577
Delta R.T. 0.008 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

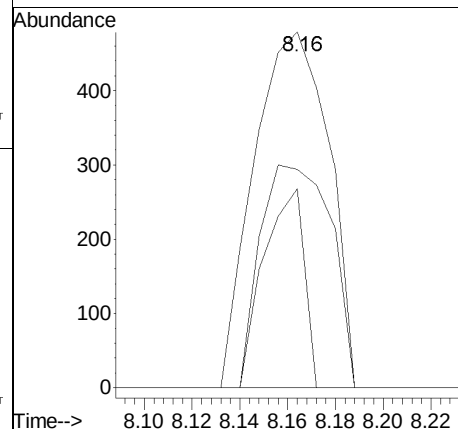
Tgt Ion:	76	Resp:	61733
Ion Ratio	Lower	Upper	
76	100		
44	18.0	15.8	23.6

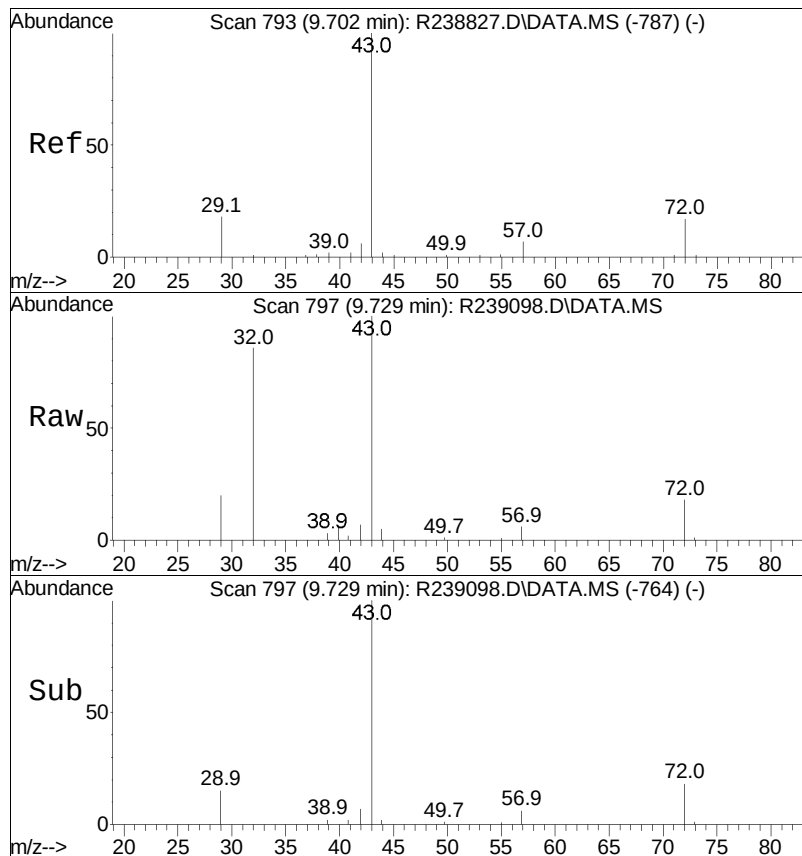




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 8.16 min Scan# 578
 Delta R.T. 0.008 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

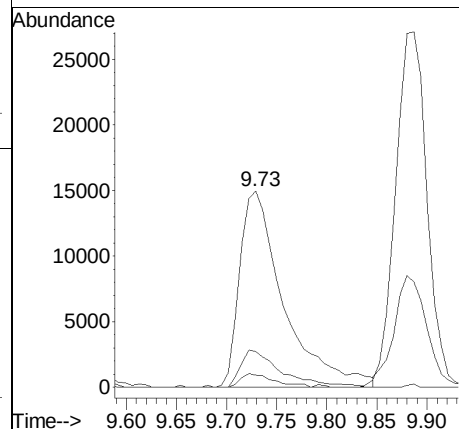
Tgt Ion	Ratio	Lower	Upper
101	100		
85	55.9	35.8	53.6#
151	61.4	57.4	86.2

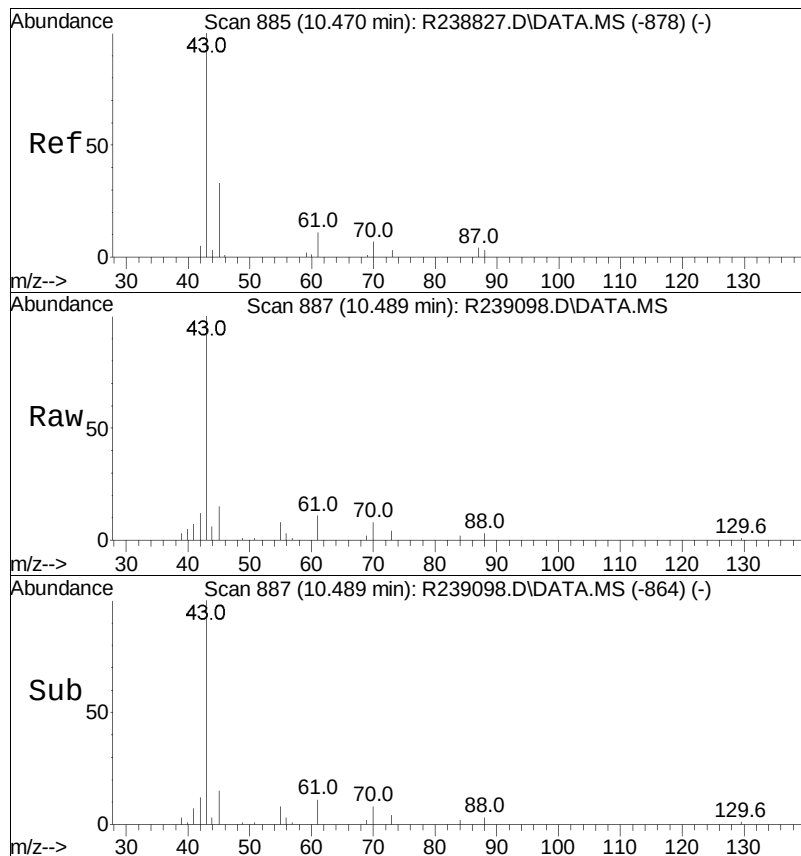




#36
 2-butanone
 Concen: 1.78 ppbV
 RT: 9.73 min Scan# 797
 Delta R.T. 0.028 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

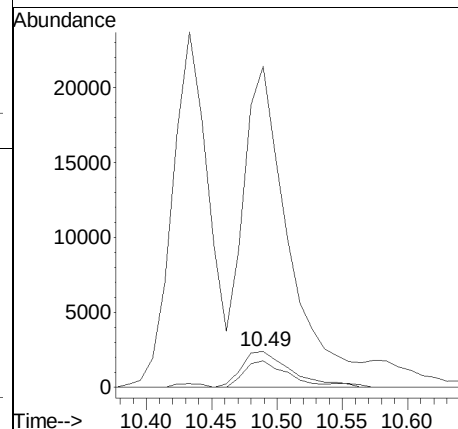
Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.3	13.5	20.3
57	6.2	5.5	8.3

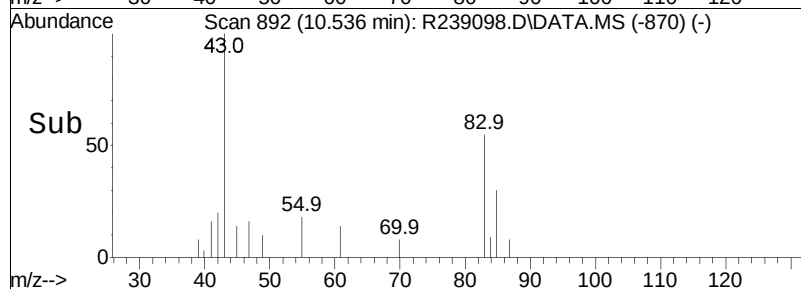
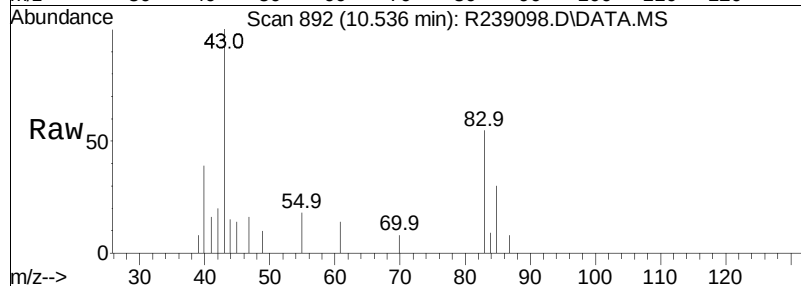
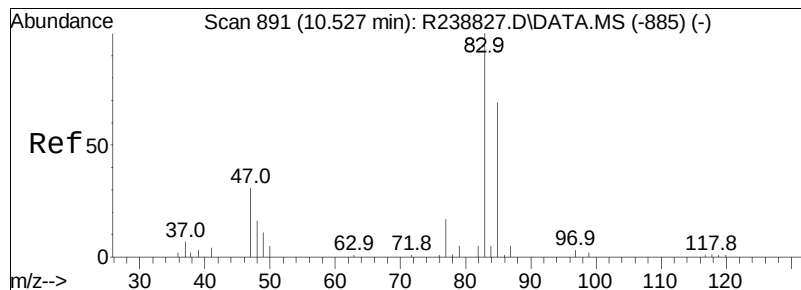




#38
 Ethyl Acetate
 Concen: 2.05 ppbV
 RT: 10.49 min Scan# 887
 Delta R.T. 0.019 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

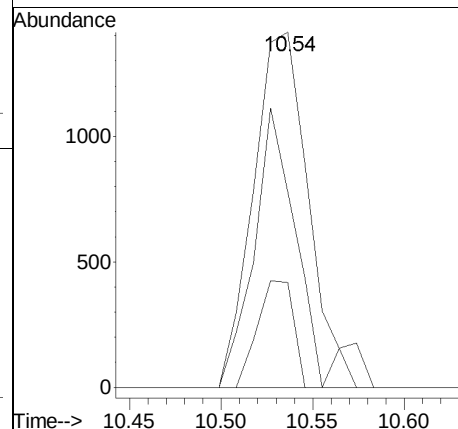
Tgt Ion	Ratio	Lower	Upper
61	100		
70	73.9	54.6	81.8
43	892.4	753.4	1130.0

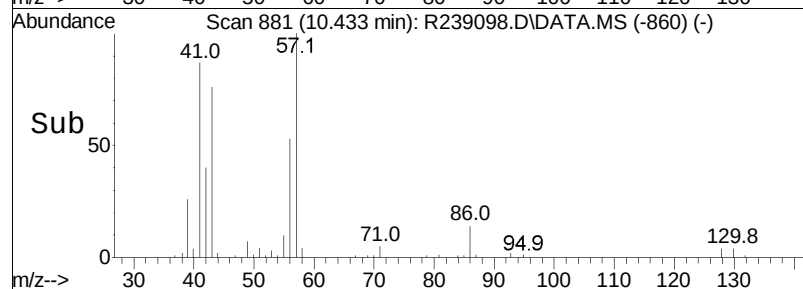
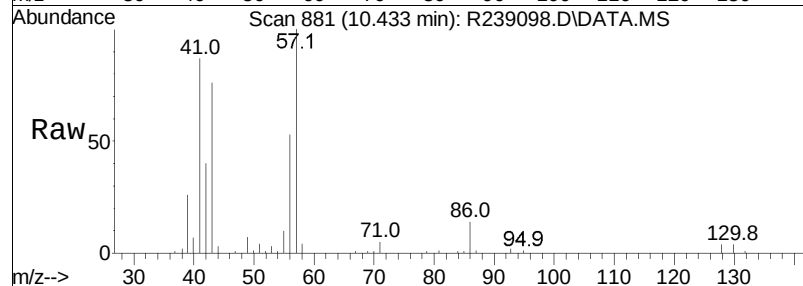
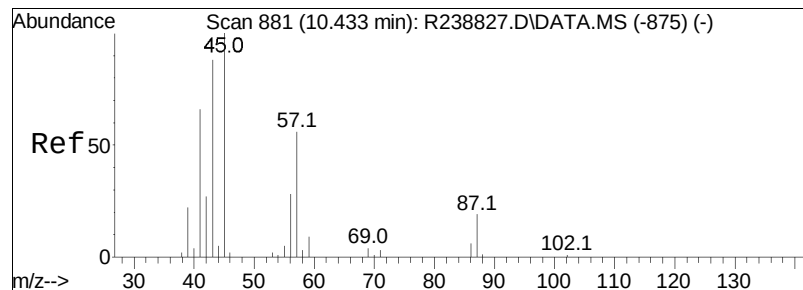




#39
chloroform
Concen: 0.15 ppbV
RT: 10.54 min Scan# 892
Delta R.T. 0.010 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

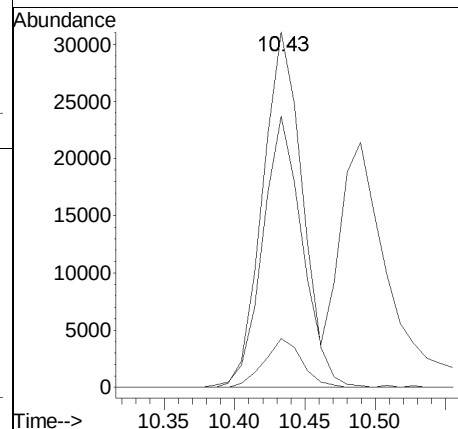
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	55.1	55.1	82.7#	
47	29.5	24.9	37.3	

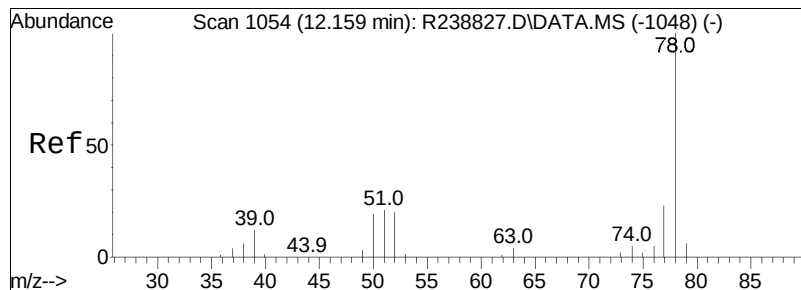




#44
hexane
Concen: 3.13 ppbV
RT: 10.43 min Scan# 881
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

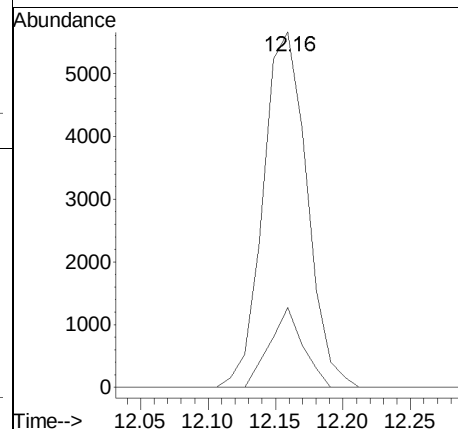
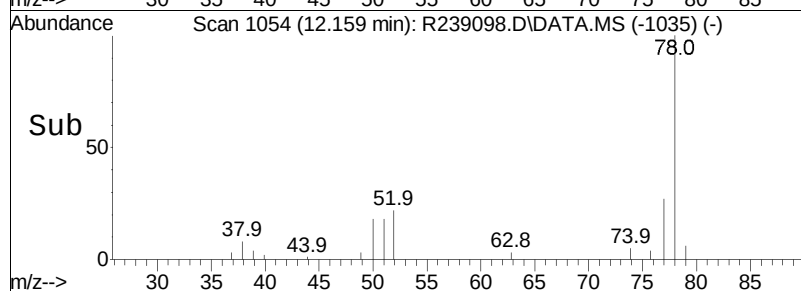
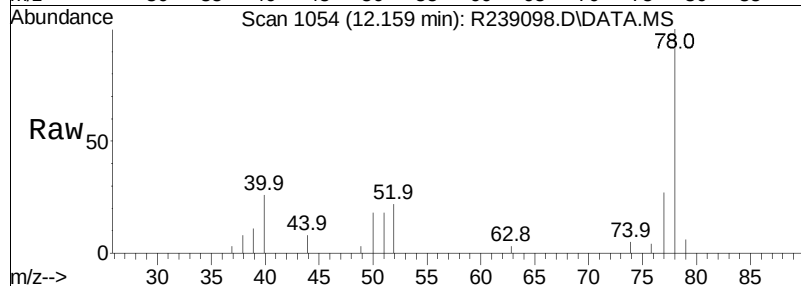
Tgt Ion:	57	Resp:	60949
Ion Ratio	Lower	Upper	
57	100		
43	76.3	125.3	187.9#
86	13.7	9.0	13.6#

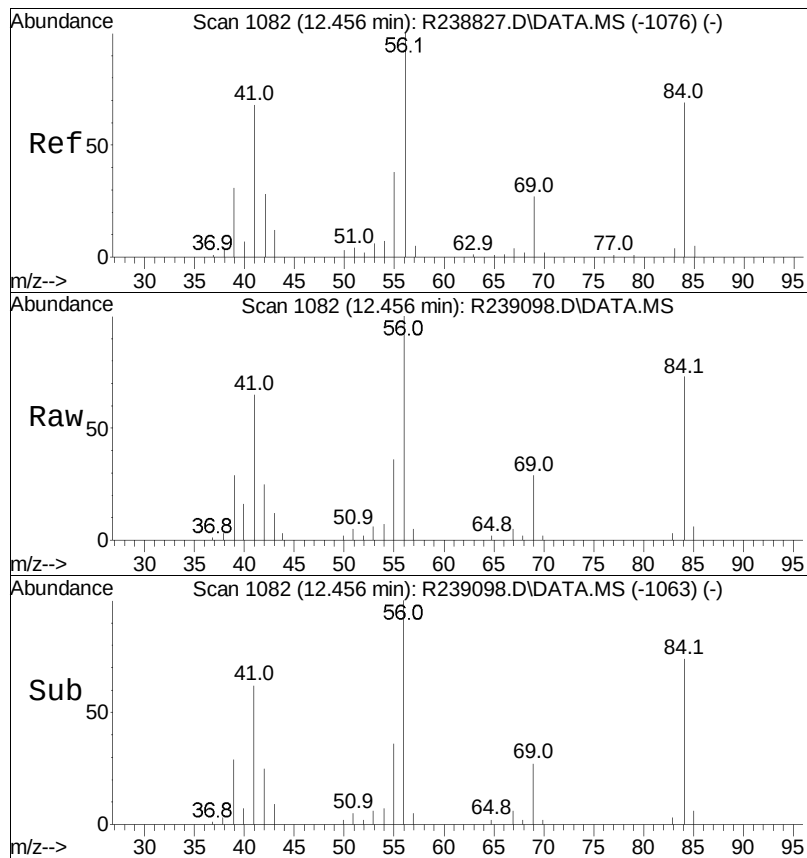




#50
benzene
Concen: 0.38 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

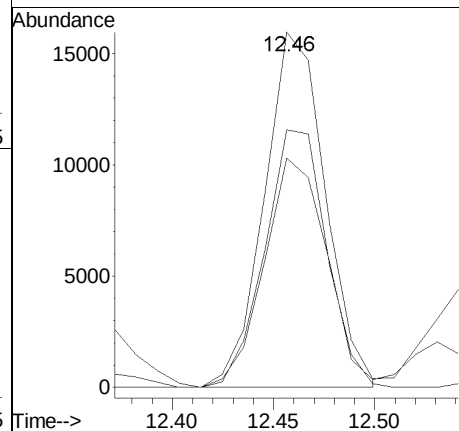
Tgt Ion	Ratio	Lower	Upper
78	100		
52	22.4	15.9	23.9

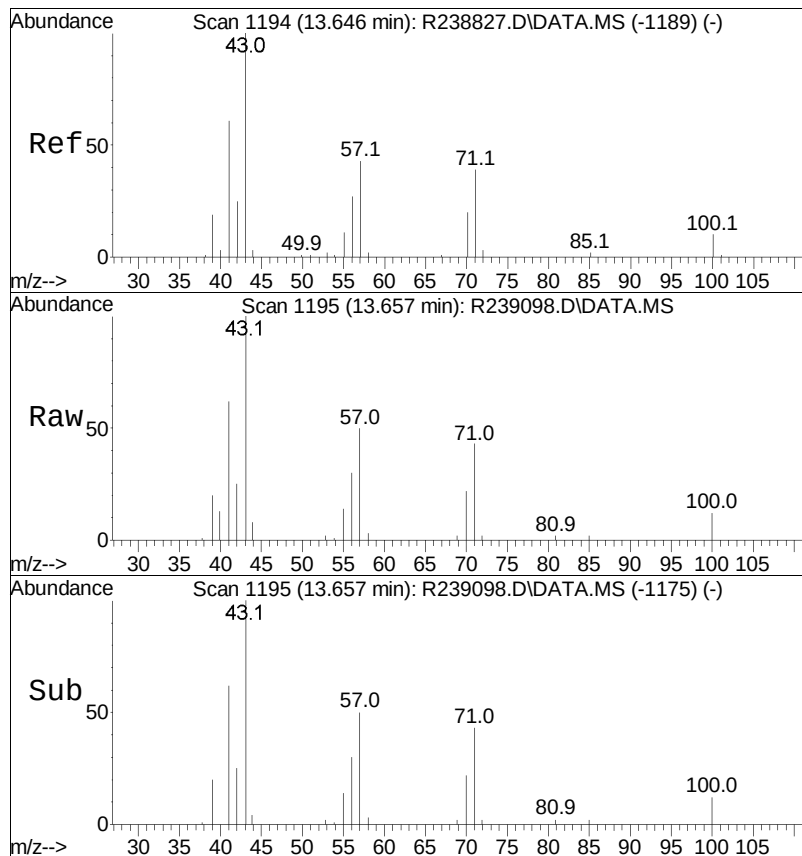




#53
cyclohexane
Concen: 1.61 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

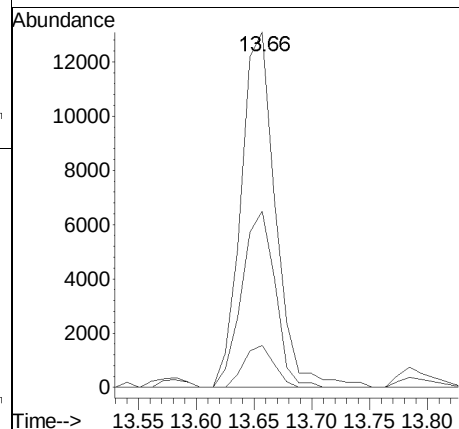
Tgt Ion	Ratio	Lower	Upper
56	100		
84	72.5	56.2	84.4
41	64.5	54.6	82.0

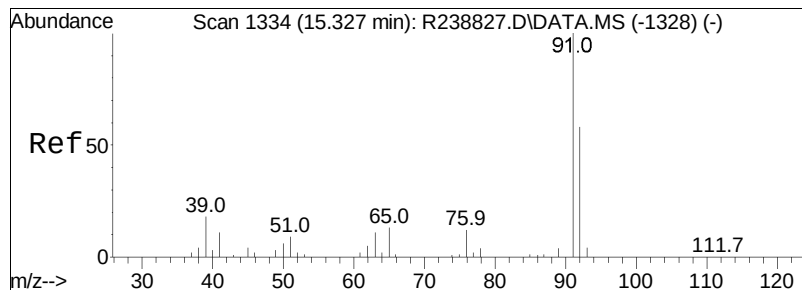




#62
heptane
Concen: 0.99 ppbV
RT: 13.66 min Scan# 1195
Delta R.T. 0.011 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

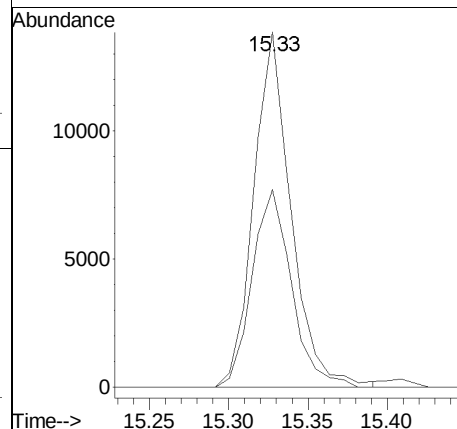
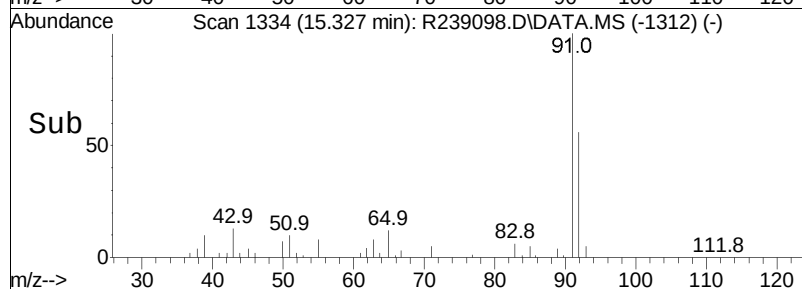
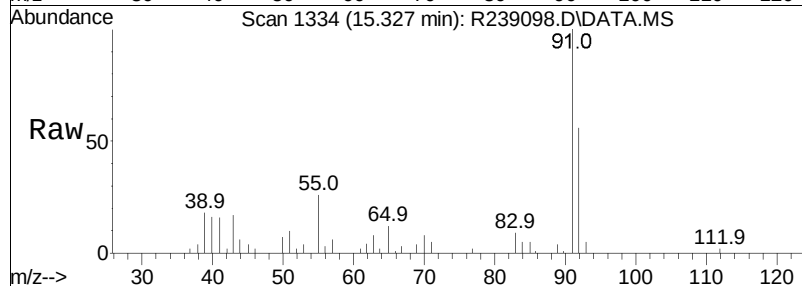
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	49.6	34.4	51.6	
100	11.8	8.4	12.6	

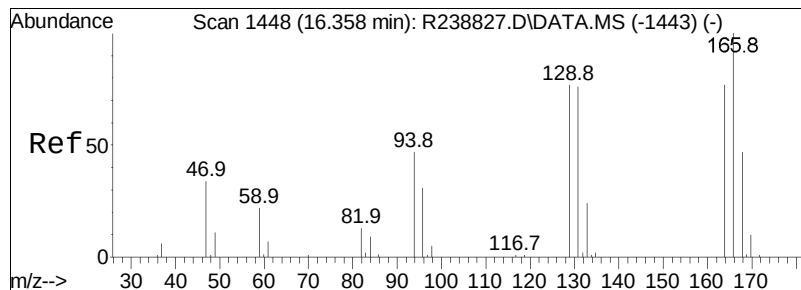




#68
toluene
Concen: 0.46 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

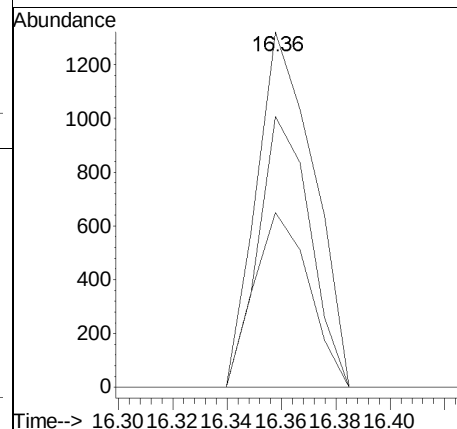
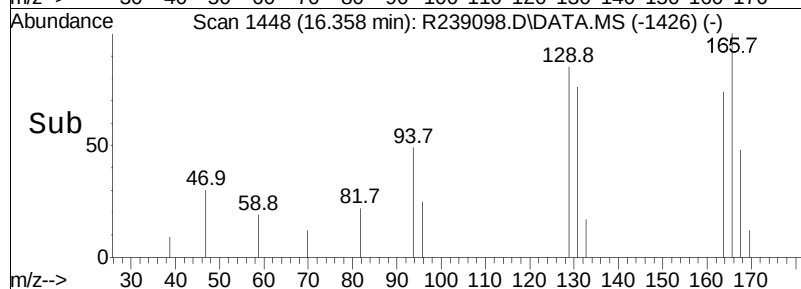
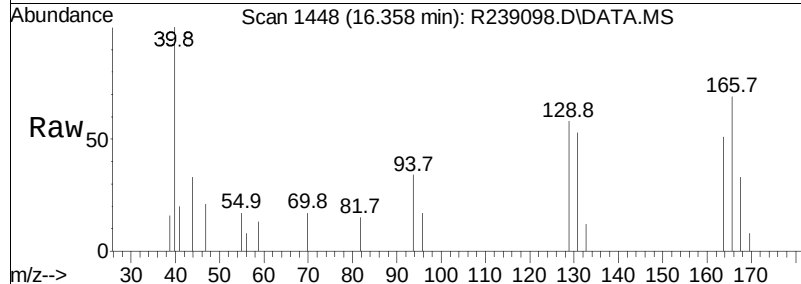
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	46.7	70.1

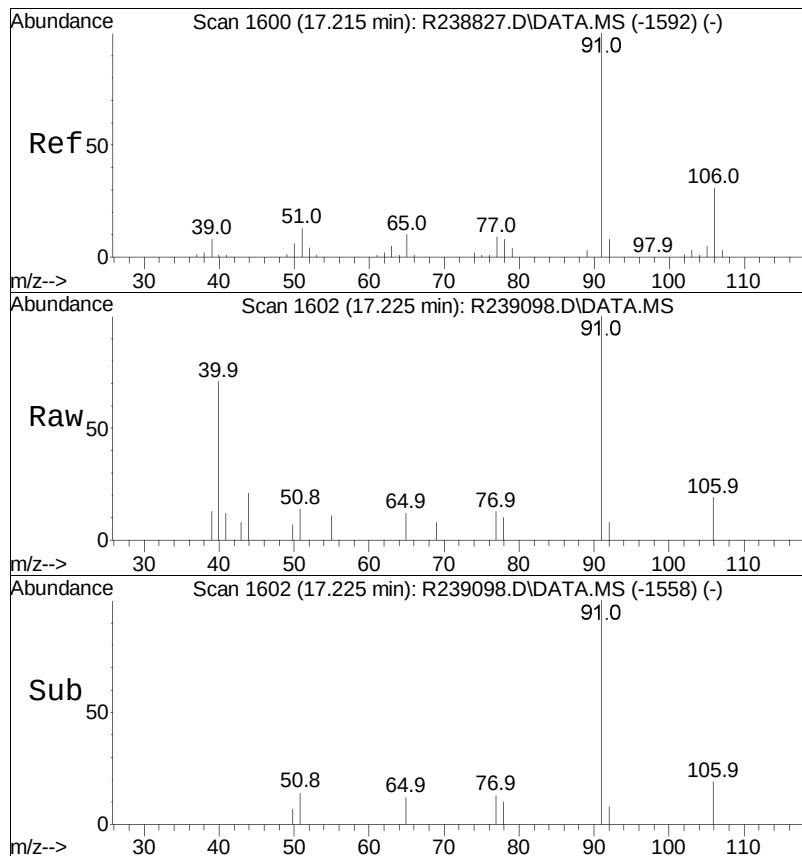




#78
 tetrachloroethene
 Concen: 0.09 ppbV
 RT: 16.36 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

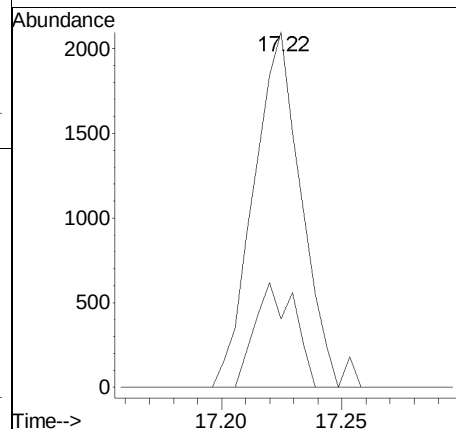
Tgt Ion	Ratio	Lower	Upper
166	100		
131	76.2	60.6	91.0
94	49.2	37.9	56.9

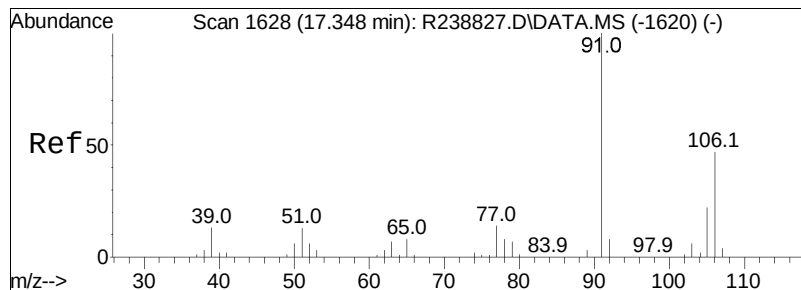




#81
ethylbenzene
Concen: 0.07 ppbV
RT: 17.22 min Scan# 1602
Delta R.T. 0.010 min
Lab File: R239098.D
Acq: 19 Feb 2016 10:18 pm

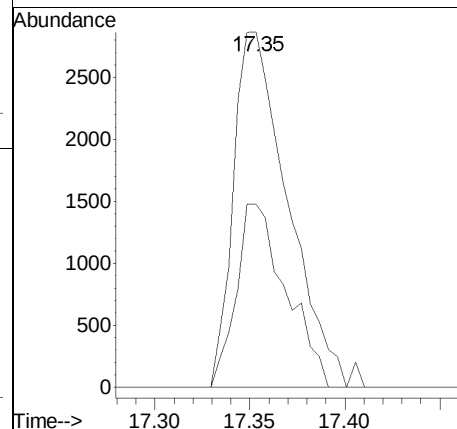
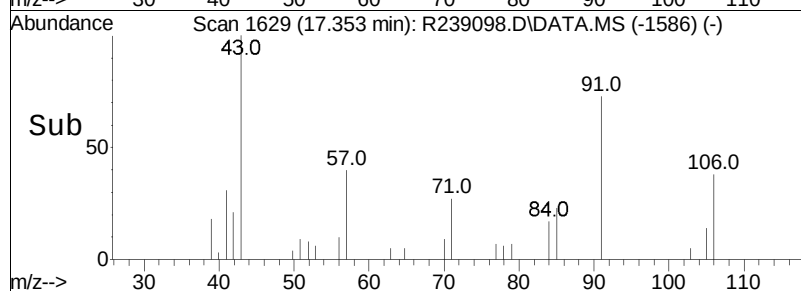
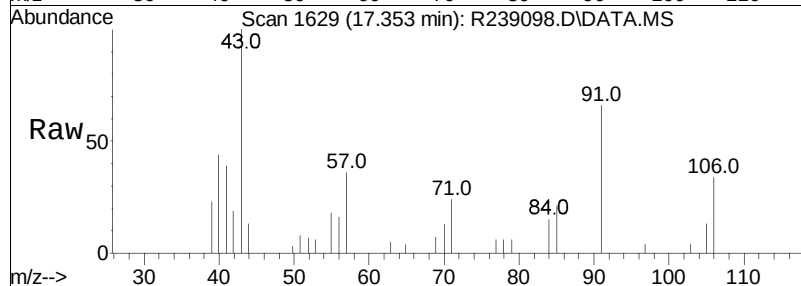
Tgt	Ion	Resp	Lower	Upper
91	100	2918		
106	19.3	24.5	36.7#	

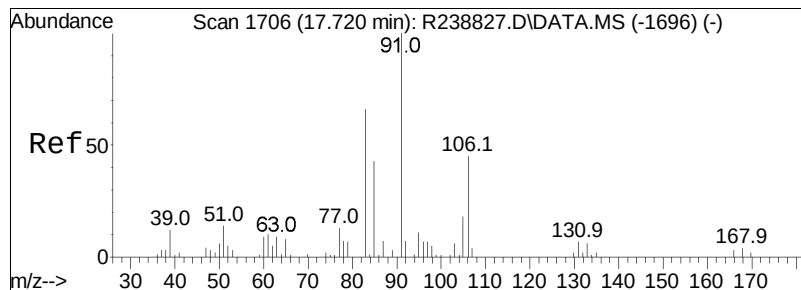




#83
 m+p-xylene
 Concen: 0.17 ppbV
 RT: 17.35 min Scan# 1629
 Delta R.T. 0.005 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

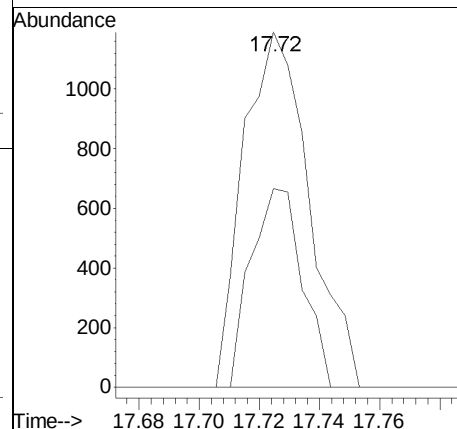
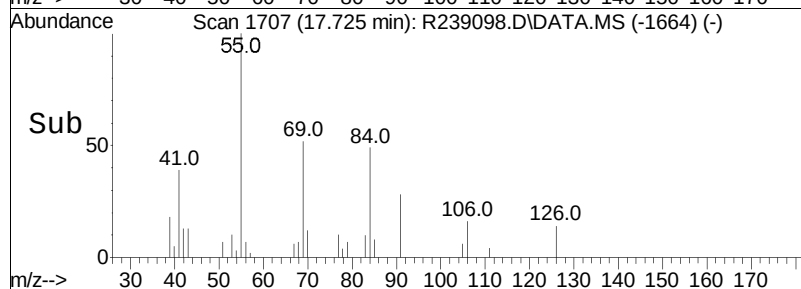
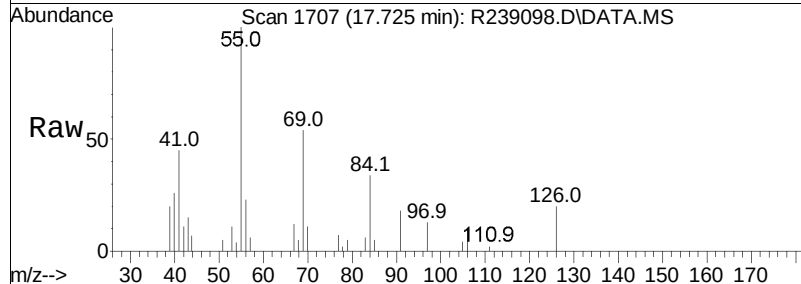
Tgt Ion: 91 Resp: 5742
 Ion Ratio Lower Upper
 91 100
 106 51.6 37.7 56.5





#87
 o-xylene
 Concen: 0.05 ppbV
 RT: 17.72 min Scan# 1707
 Delta R.T. 0.005 min
 Lab File: R239098.D
 Acq: 19 Feb 2016 10:18 pm

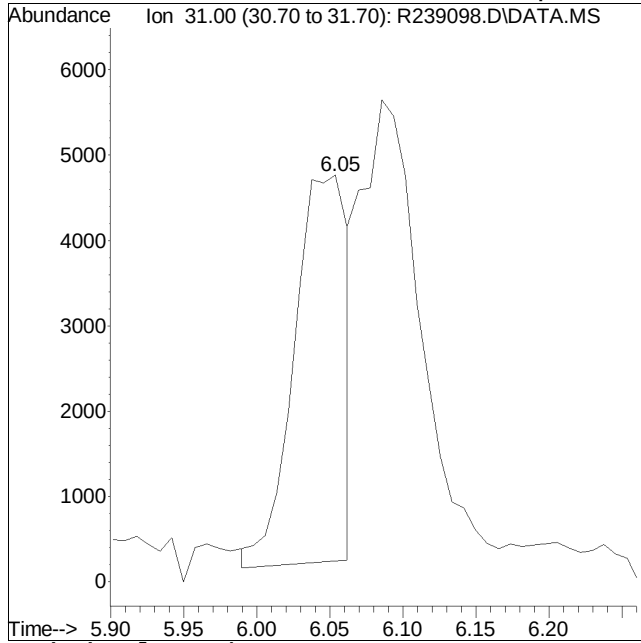
Tgt Ion	Ratio	Lower	Upper
91	100		
106	55.9	35.8	53.6#



Manual Integration/Negative Proof Report

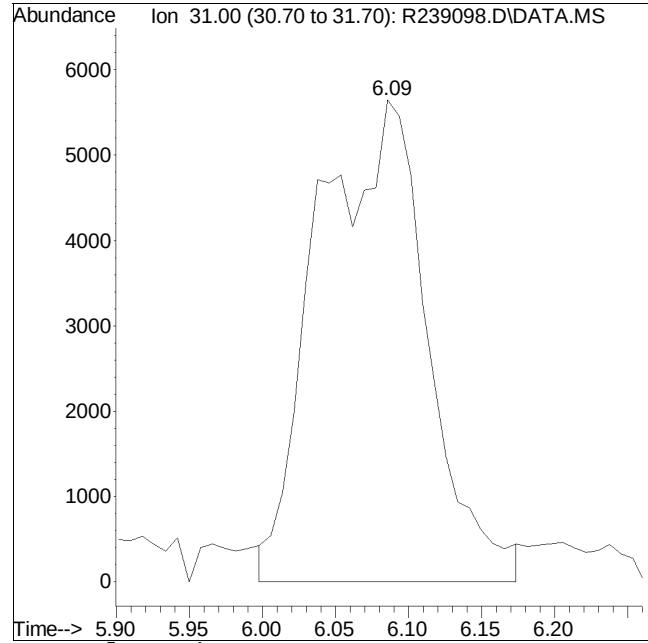
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239098.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 10:18 pm Instrument : Air Piano 2
Sample : L1604136-07,3,250,250 Quant Date : 2/19/2016 11:33 pm

Compound #15: ethanol



Original Peak Response = 11482

M4 = Poor automated baseline construction.

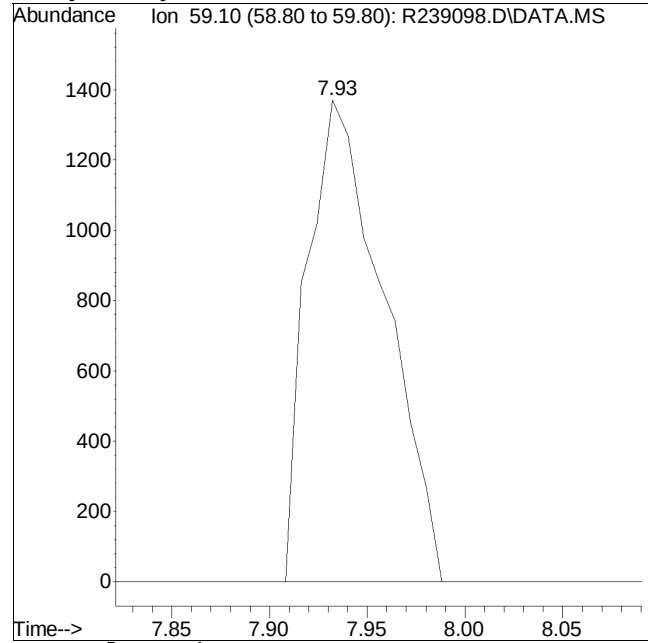
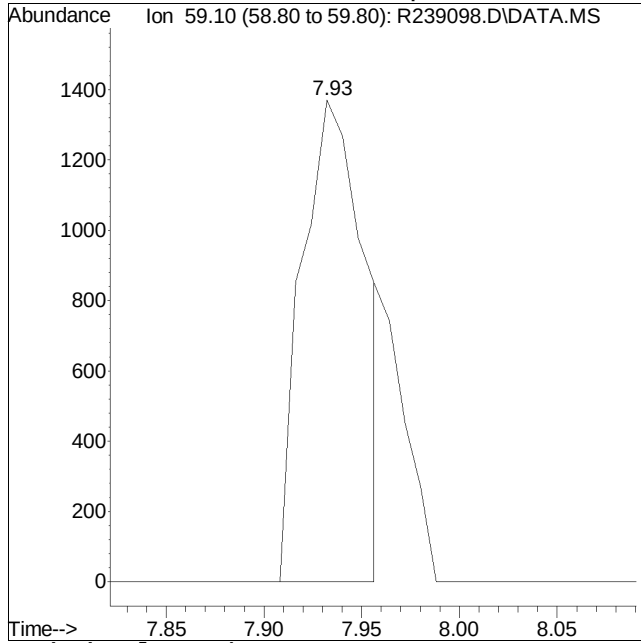


Manual Peak Response = 29382 M4

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239098.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 10:18 pm Instrument : Air Piano 2
Sample : L1604136-07,3,250,250 Quant Date : 2/19/2016 11:33 pm

Compound #27: tertiary butyl alcohol



M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239099.D
 Acq On : 19 Feb 2016 10:50 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-08D,3,125,250
 Misc : WG866471,ICAL12008
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:32:39 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.39	49	138278	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		93.93%	
43) 1,4-difluorobenzene	12.55	114	343268	10.000	ppbV	0.01
Standard Area = 368790			Recovery =		93.08%	
67) chlorobenzene-D5	16.89	54	72457	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		90.19%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	3652	0.209	ppbV	95
6) chloromethane	0.00		0	N.D.		
7) Freon-114	0.00		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	5.12		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.05	31	57101	6.840	ppbV	98
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.65	43	172967	10.677	ppbV #	98
21) trichlorofluoromethane	6.85	101	5867	0.267	ppbV	94
22) isopropyl alcohol	7.11	45	18368M4	0.992	ppbV	
26) 1,1-dichloroethene	0.00		0	N.D.		
27) tertiary butyl alcohol	7.94	59	1730M3	0.082	ppbV	
28) methylene chloride	7.83	49	865	0.065	ppbV #	65
29) 3-chloropropene	7.93		0	N.D.		
30) carbon disulfide	8.16		0	N.D.		
31) Freon 113	8.16		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	9.72	43	14235	0.559	ppbV #	95
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	10.46	61	506498	165.103	ppbV	67
39) chloroform	10.54	83	84966	4.336	ppbV	94
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.44		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239099.D
 Acq On : 19 Feb 2016 10:50 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-08D, 3, 125, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:32:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.00		0	N.D.		
50) benzene	12.16	78	85170	2.546	ppbV	97
52) carbon tetrachloride	0.00		0	N.D.		
53) cyclohexane	0.00		0	N.D.	d	
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	13.30		0	N.D.		
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	13.37		0	N.D.		
62) heptane	13.66	43	5608	0.205	ppbV #	85
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.	d	
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	15.33	91	605092	12.489	ppbV	99
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	16.36		0	N.D.		
80) chlorobenzene	0.00		0	N.D.	d	
81) ethylbenzene	17.22	91	3081	0.071	ppbV #	80
83) m+p-xylene	17.35	91	5797	0.172	ppbV	89
84) bromoform	0.00		0	N.D.		
85) styrene	17.64		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.73		0	N.D.		
87) o-xylene	17.72	91	2046	0.059	ppbV	87
96) 4-ethyl toluene	18.64		0	N.D.		
97) 1,3,5-trimethylbenzene	18.70		0	N.D.		
99) 1,2,4-trimethylbenzene	19.00	105	2056	0.051	ppbV #	49
101) Benzyl Chloride	0.00		0	N.D.	d	
102) 1,3-dichlorobenzene	0.00		0	N.D.		
103) 1,4-dichlorobenzene	0.00		0	N.D.		
107) 1,2-dichlorobenzene	0.00		0	N.D.		
115) 1,2,4-trichlorobenzene	0.00		0	N.D.		
119) hexachlorobutadiene	0.00		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239099.D
 Acq On : 19 Feb 2016 10:50 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-08D,3,125,250
 Misc : WG866471,ICAL12008
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:32:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY - .

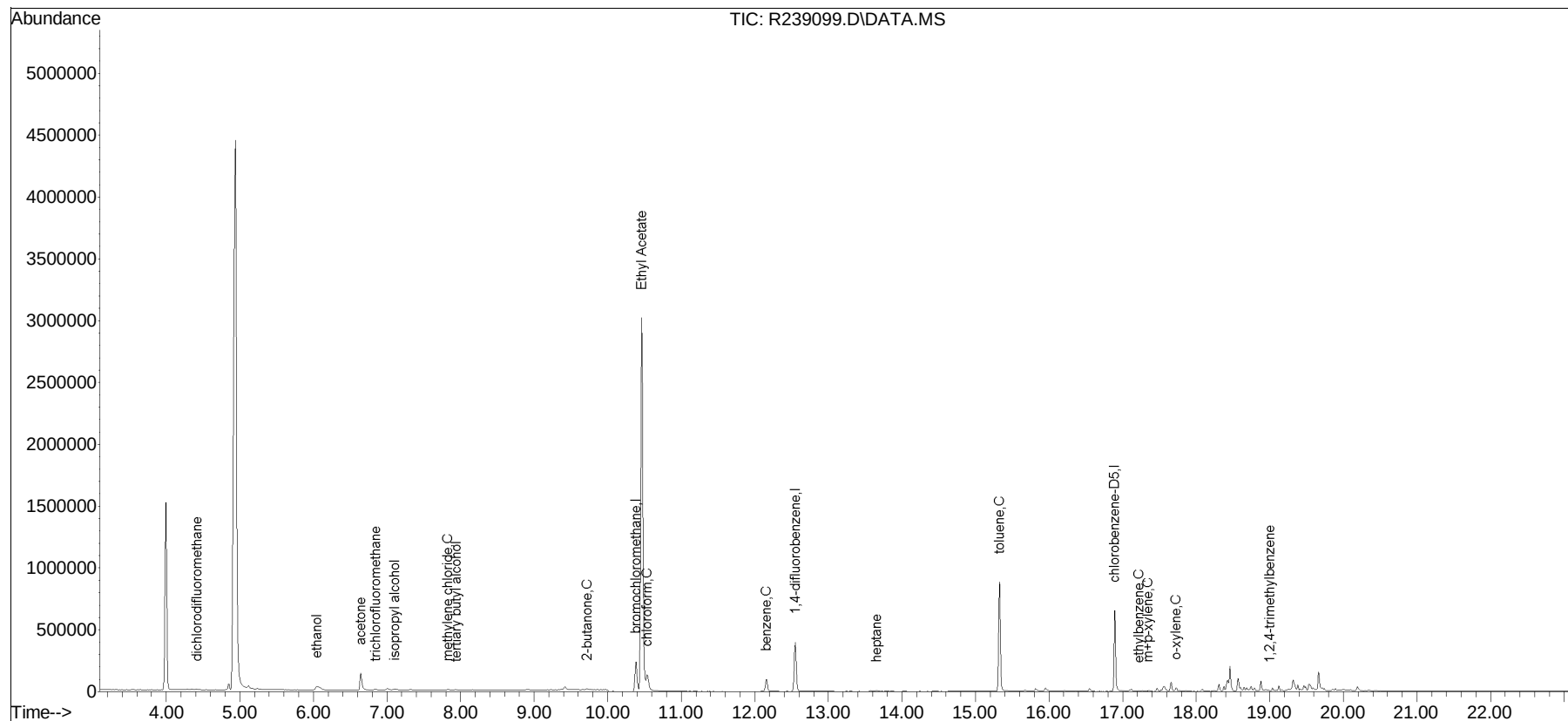
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239099.D
 Acq On : 19 Feb 2016 10:50 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-08D, 3, 125, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 8 Sample Multiplier: 1

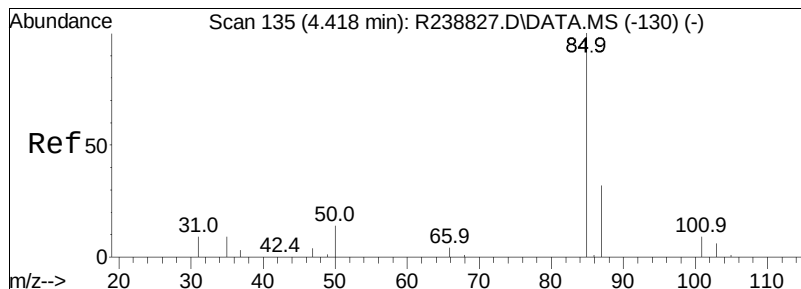
Quant Time: Feb 20 10:32:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY - .s\Data\AIR2\2016\160219T\R239086.D



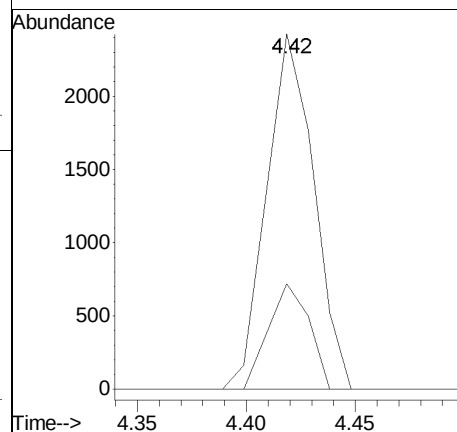
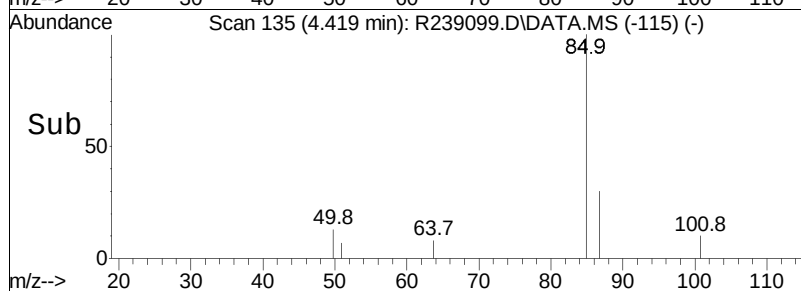
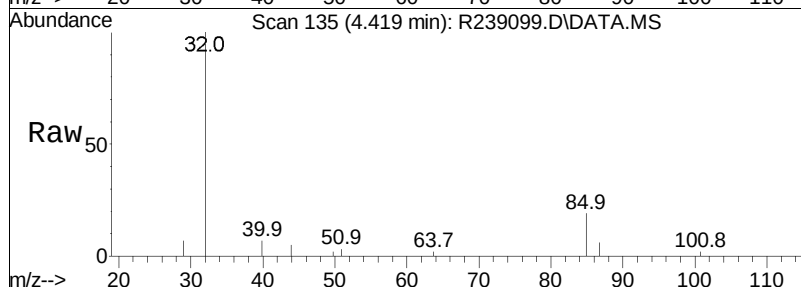
TALL160207.M Sat Feb 20 10:32:49 2016

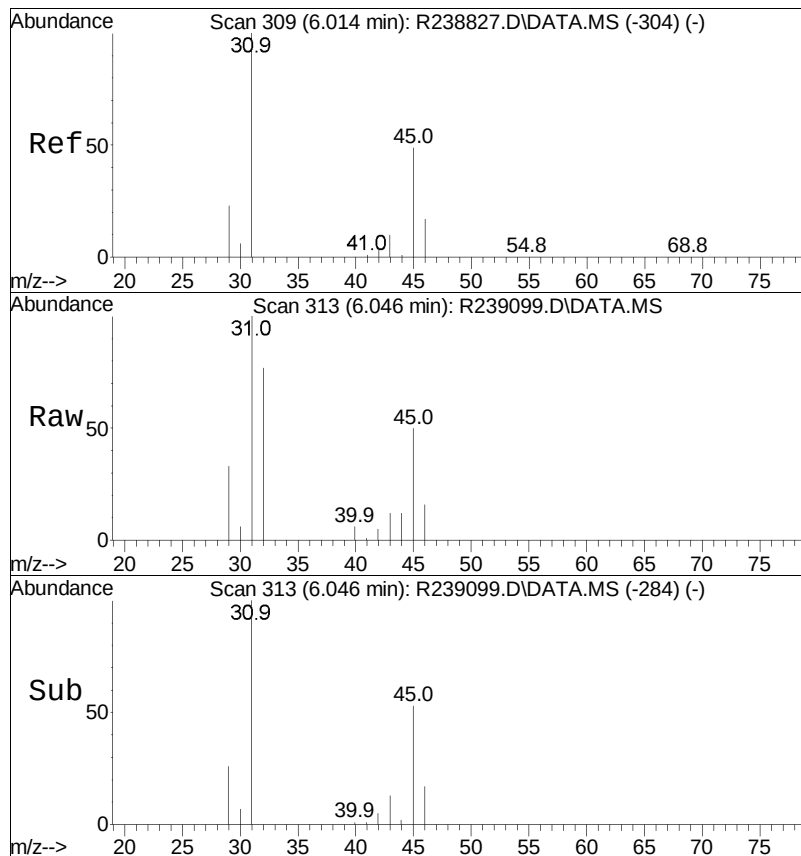
Page 4



#5
dichlorodifluoromethane
Concen: 0.21 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

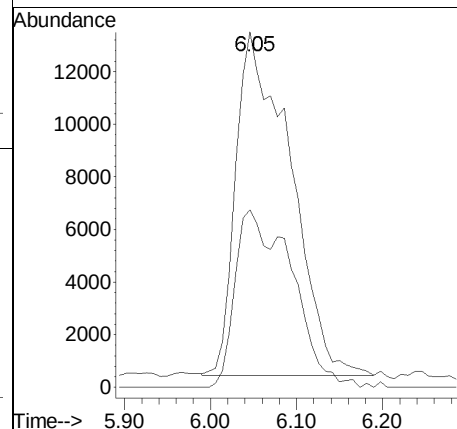
Tgt Ion: 85 Resp: 3652
Ion Ratio Lower Upper
85 100
87 29.8 25.8 38.8

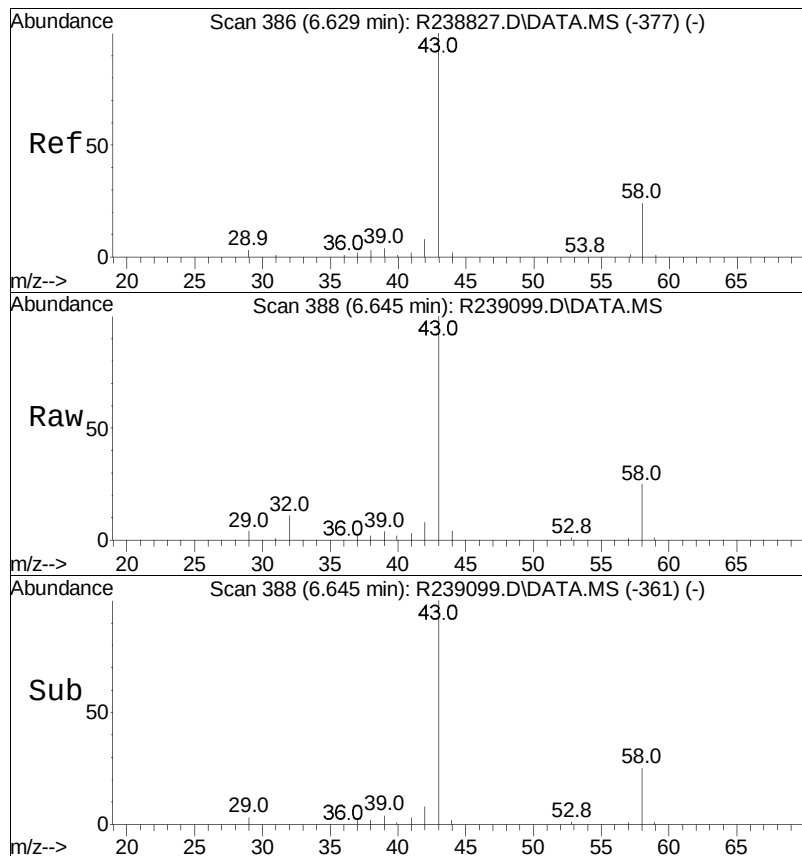




#15
ethanol
Concen: 6.84 ppbV
RT: 6.05 min Scan# 313
Delta R.T. 0.032 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

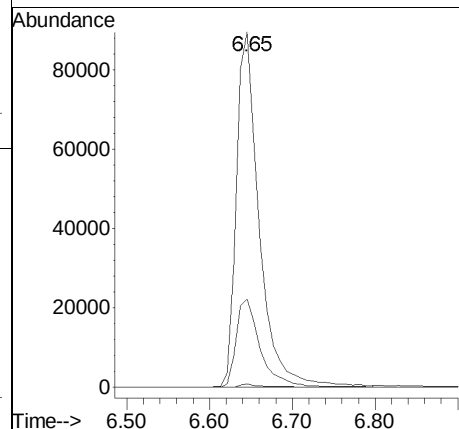
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	50.0	38.7	58.1	

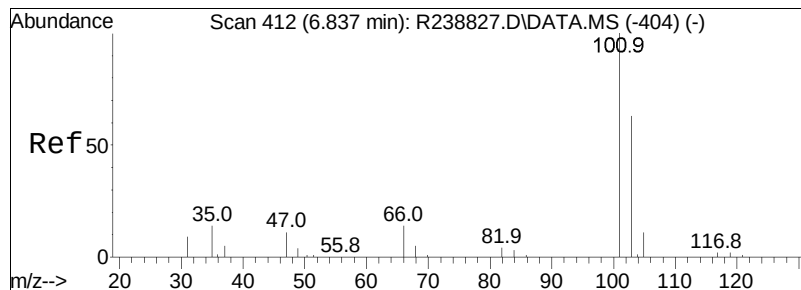




#19
acetone
Concen: 10.68 ppbV
RT: 6.65 min Scan# 388
Delta R.T. 0.016 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

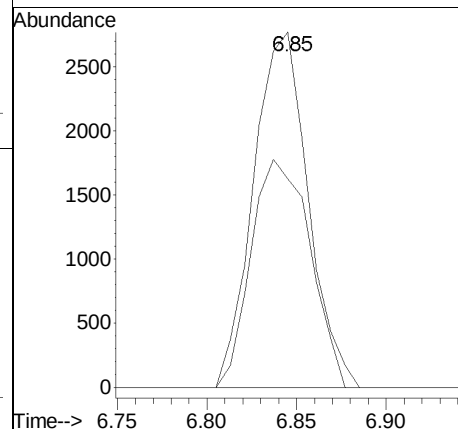
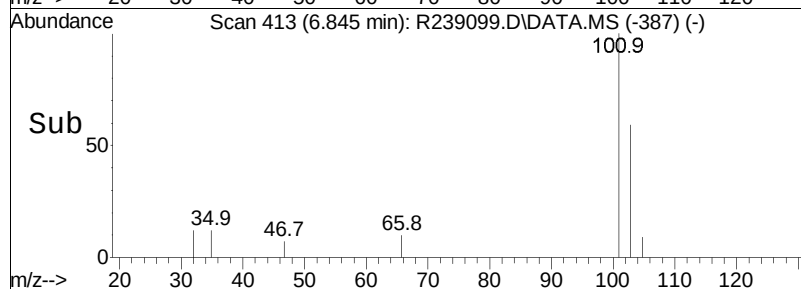
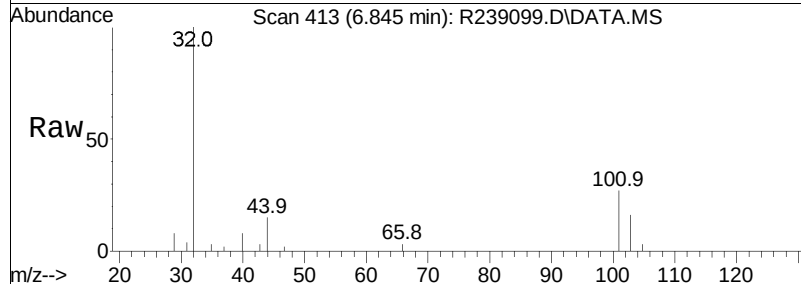
Tgt Ion:	43	Resp:	172967
Ion Ratio	Lower	Upper	
43	100		
58	24.9	19.2	28.8
57	1.0	0.6	1.0#

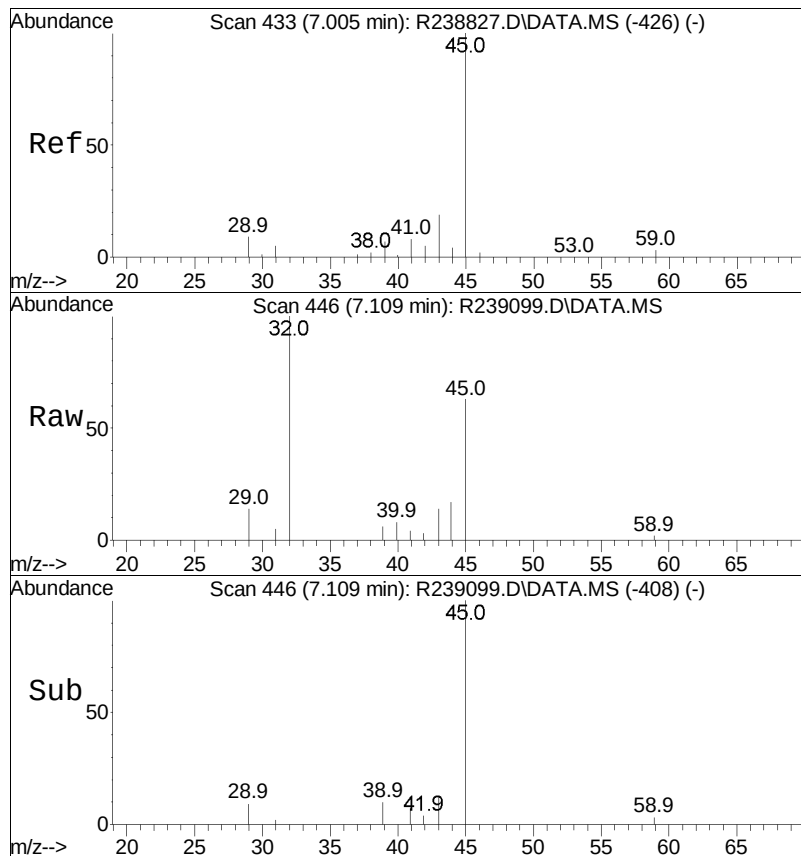




#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 6.85 min Scan# 413
Delta R.T. 0.008 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

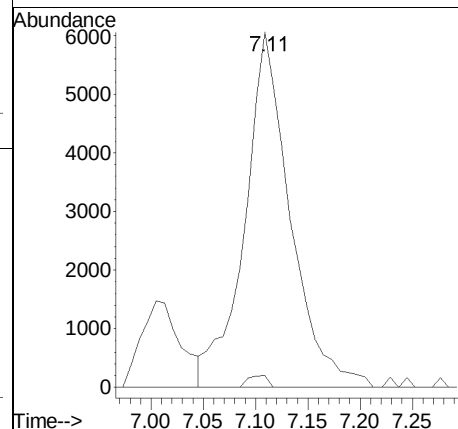
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	58.7	50.5	75.7	

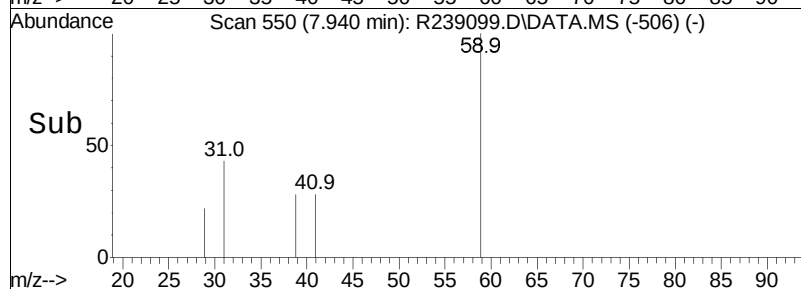
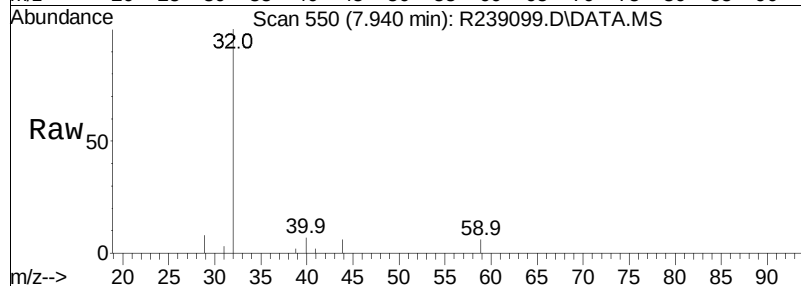
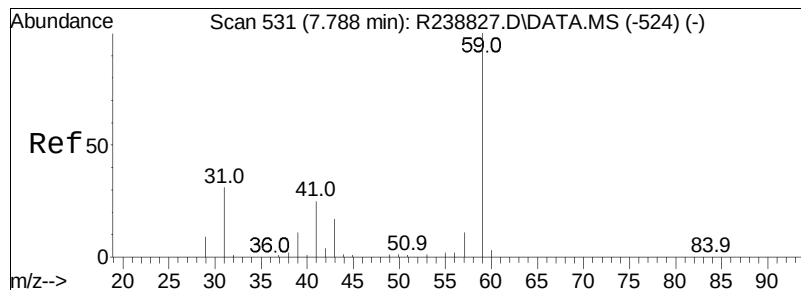




#22
 isopropyl alcohol
 Concen: 0.99 ppbV m
 RT: 7.11 min Scan# 446
 Delta R.T. 0.104 min
 Lab File: R239099.D
 Acq: 19 Feb 2016 10:50 pm

Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.4	2.6	4.0





#27

tertiary butyl alcohol

Concen: 0.08 ppbV m

RT: 7.94 min Scan# 550

Delta R.T. 0.152 min

Lab File: R239099.D

Acq: 19 Feb 2016 10:50 pm

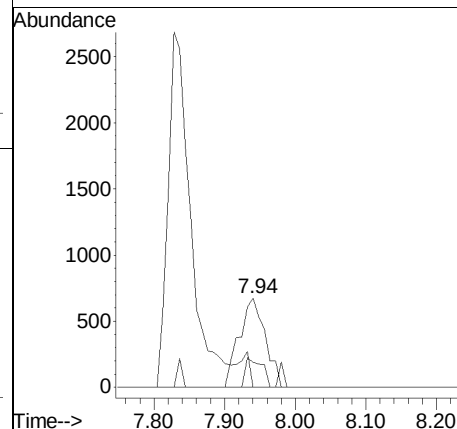
Tgt Ion: 59 Resp: 1730

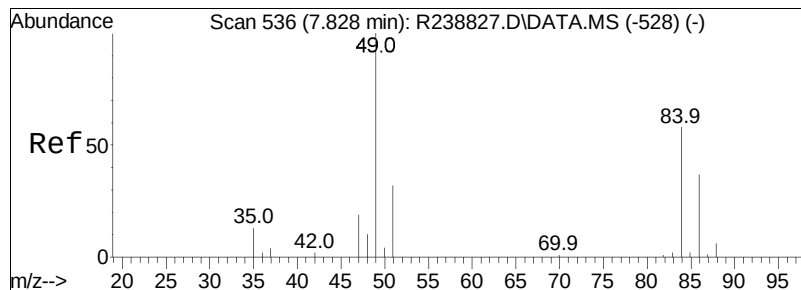
Ion Ratio Lower Upper

59 100

41 28.0 20.5 30.7

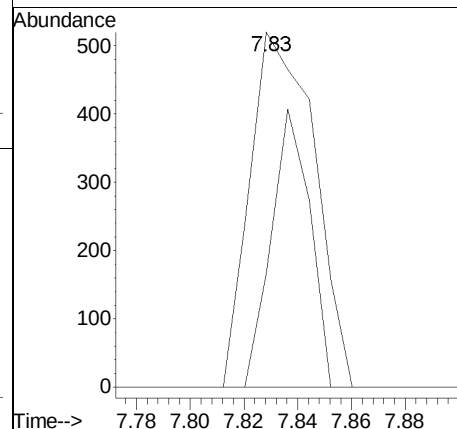
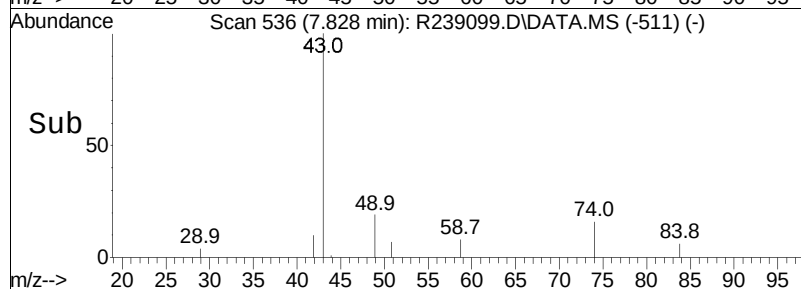
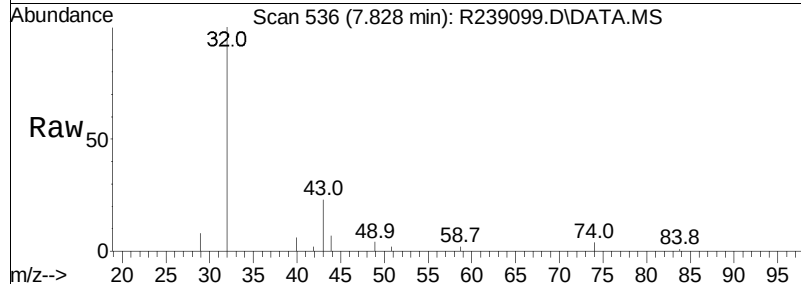
43 0.0 13.8 20.8#

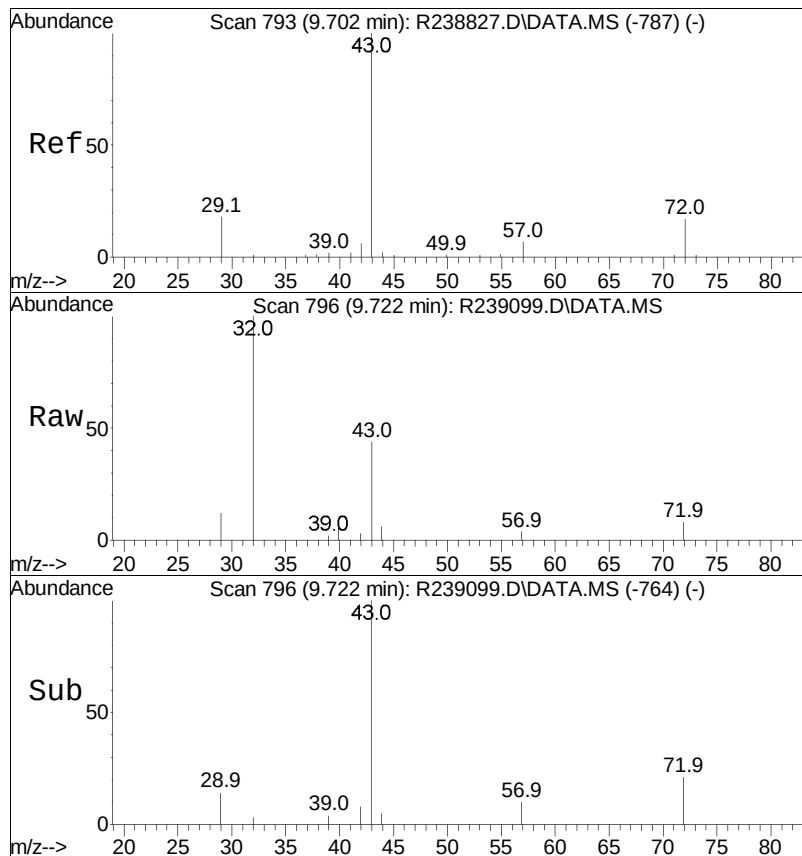




#28
 methylene chloride
 Concen: 0.06 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.000 min
 Lab File: R239099.D
 Acq: 19 Feb 2016 10:50 pm

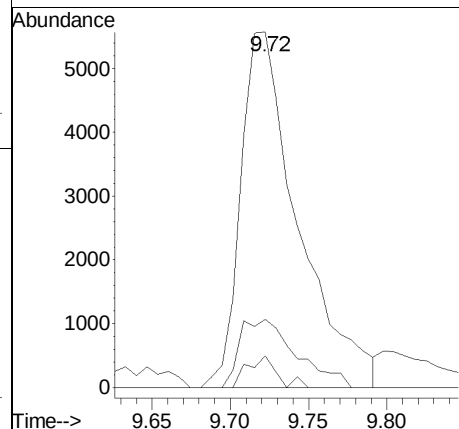
Tgt Ion	Ratio	Lower	Upper
49	100		
84	31.9	46.5	69.7#

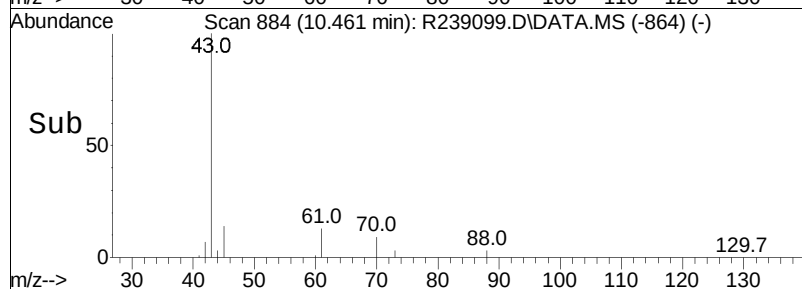
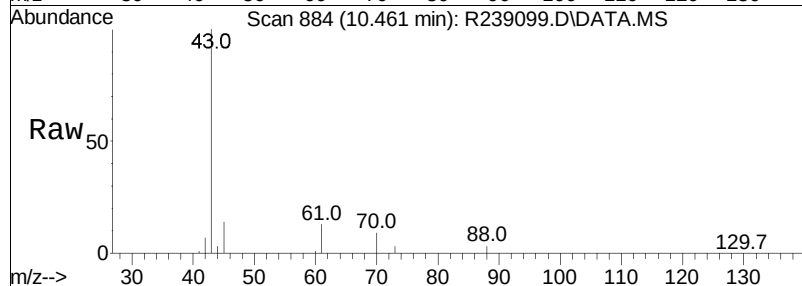
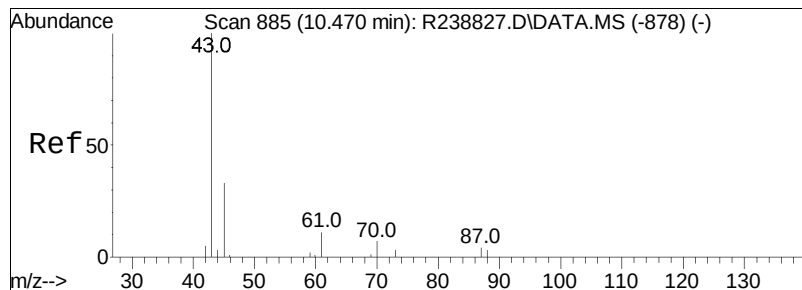




#36
2-butanone
Concen: 0.56 ppbV
RT: 9.72 min Scan# 796
Delta R.T. 0.021 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.1	13.5	20.3
57	8.9	5.5	8.3





#38

Ethyl Acetate

Concen: 165.10 ppbV

RT: 10.46 min Scan# 884

Delta R.T. -0.009 min

Lab File: R239099.D

Acq: 19 Feb 2016 10:50 pm

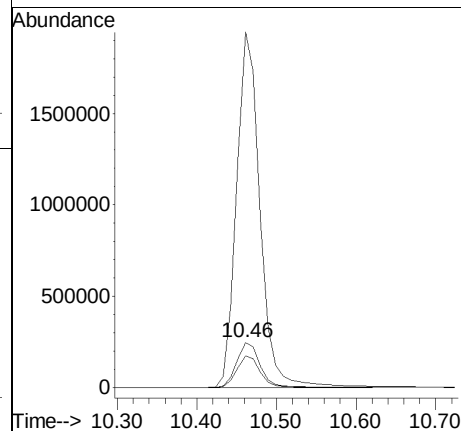
Tgt Ion: 61 Resp: 506498

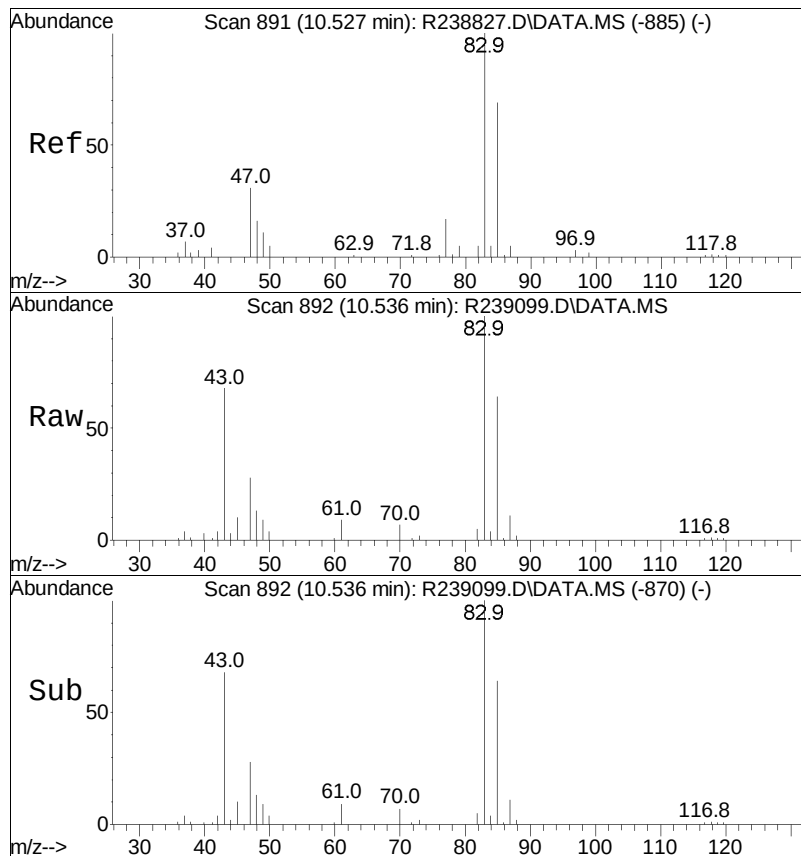
Ion Ratio Lower Upper

61 100

70 70.4 54.6 81.8

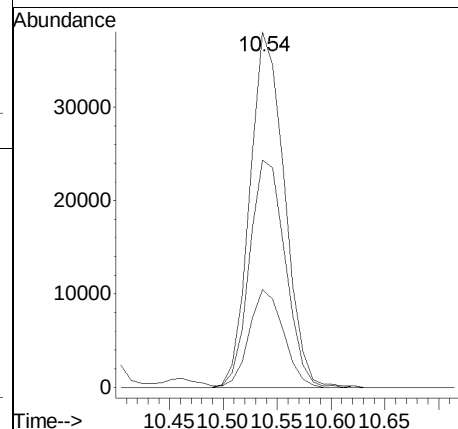
43 791.9 753.4 1130.0

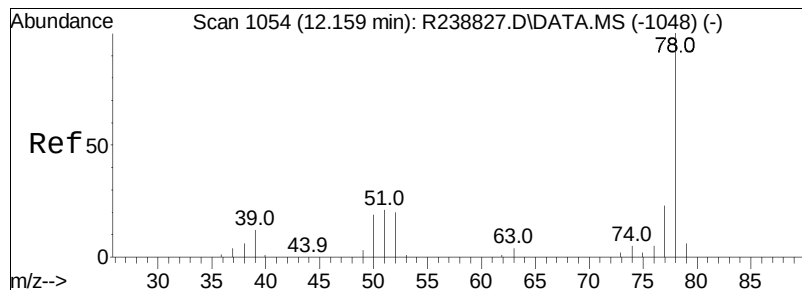




#39
 chloroform
 Concen: 4.34 ppbV
 RT: 10.54 min Scan# 892
 Delta R.T. 0.009 min
 Lab File: R239099.D
 Acq: 19 Feb 2016 10:50 pm

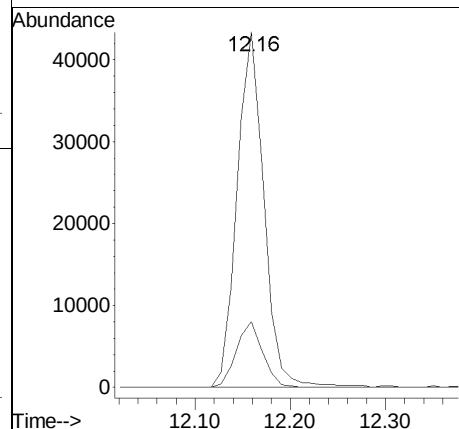
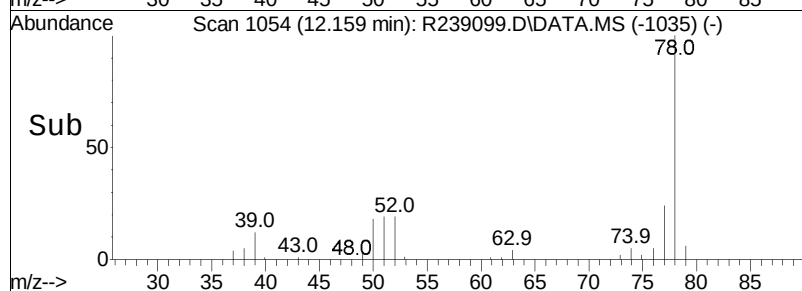
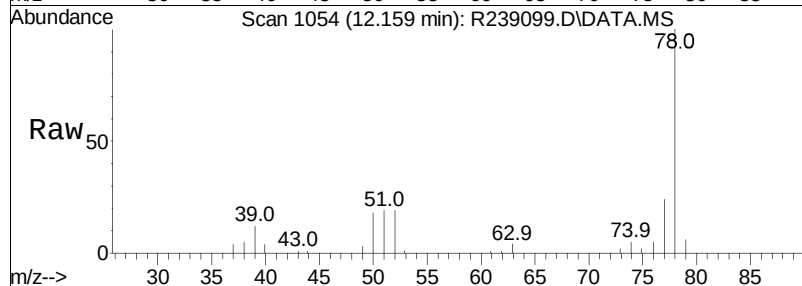
Tgt Ion:	83	Resp:	84966
Ion Ratio	Lower	Upper	
83	100		
85	64.0	55.1	82.7
47	27.5	24.9	37.3

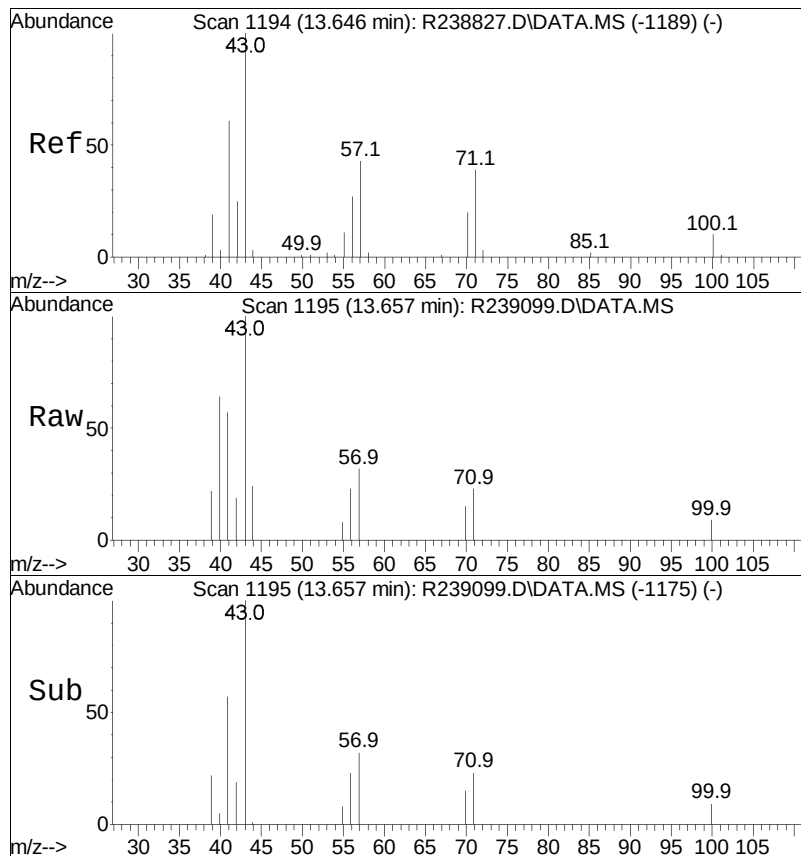




#50
benzene
Concen: 2.55 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

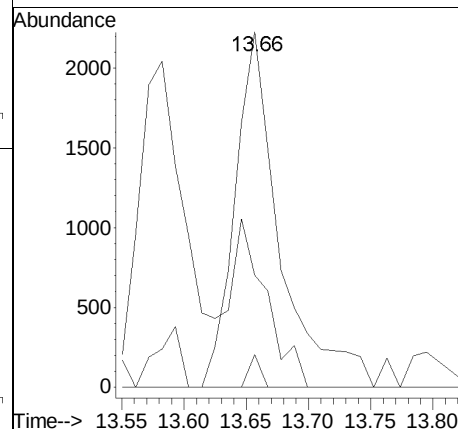
Tgt Ion	Ratio	Lower	Upper
78	100		
52	18.5	15.9	23.9

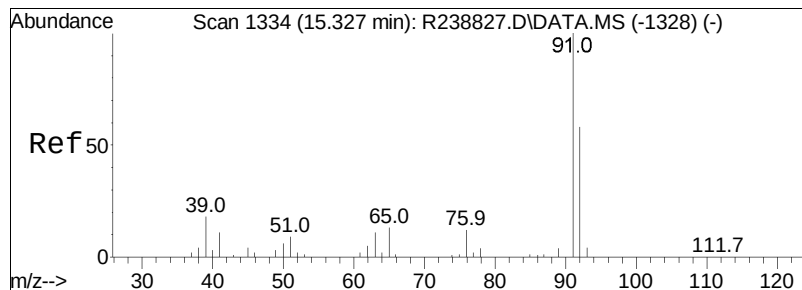




#62
heptane
Concen: 0.20 ppbV
RT: 13.66 min Scan# 1195
Delta R.T. 0.011 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

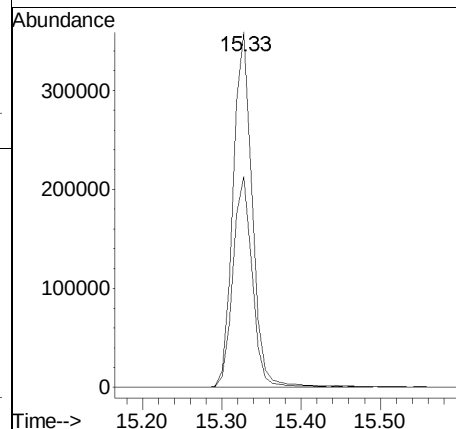
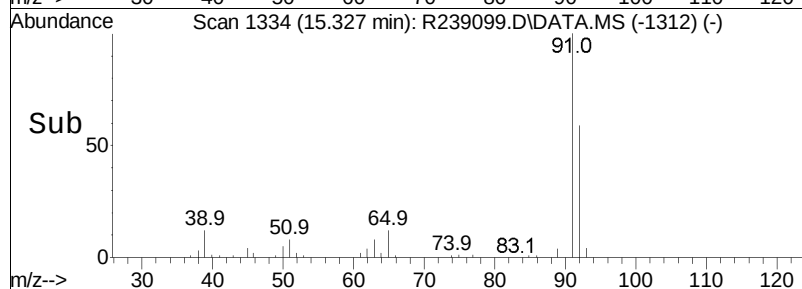
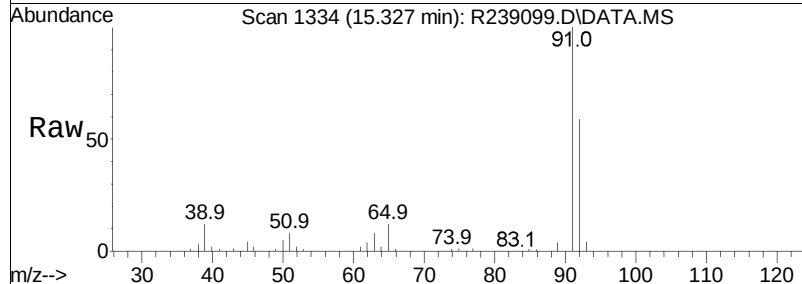
Tgt Ion:	43	57	100	Resp:	5608
Ion Ratio	100	31.6	9.3	Lower	Upper
		34.4	8.4		
		51.6#	12.6		

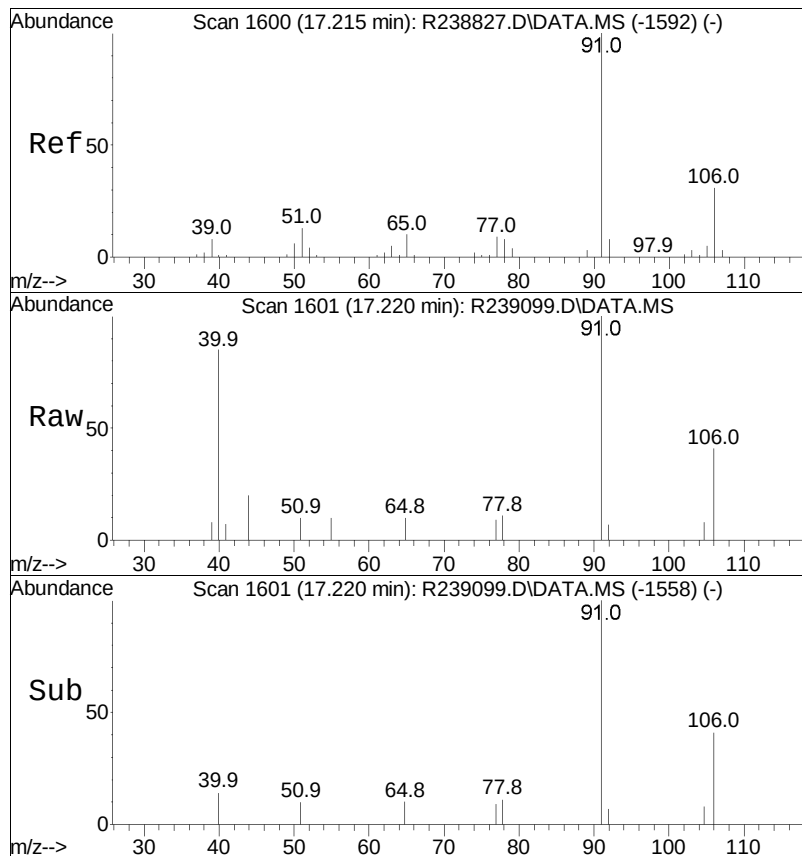




#68
toluene
Concen: 12.49 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

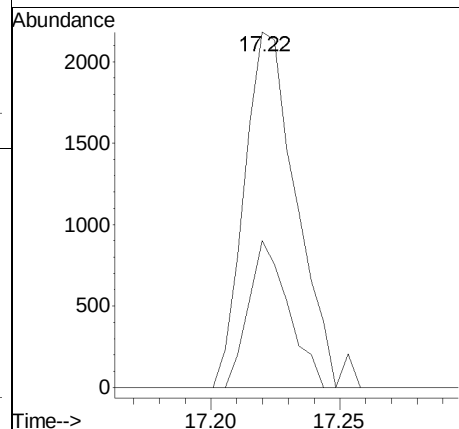
Tgt Ion: 91 Resp: 605092
Ion Ratio Lower Upper
91 100
92 59.4 46.7 70.1

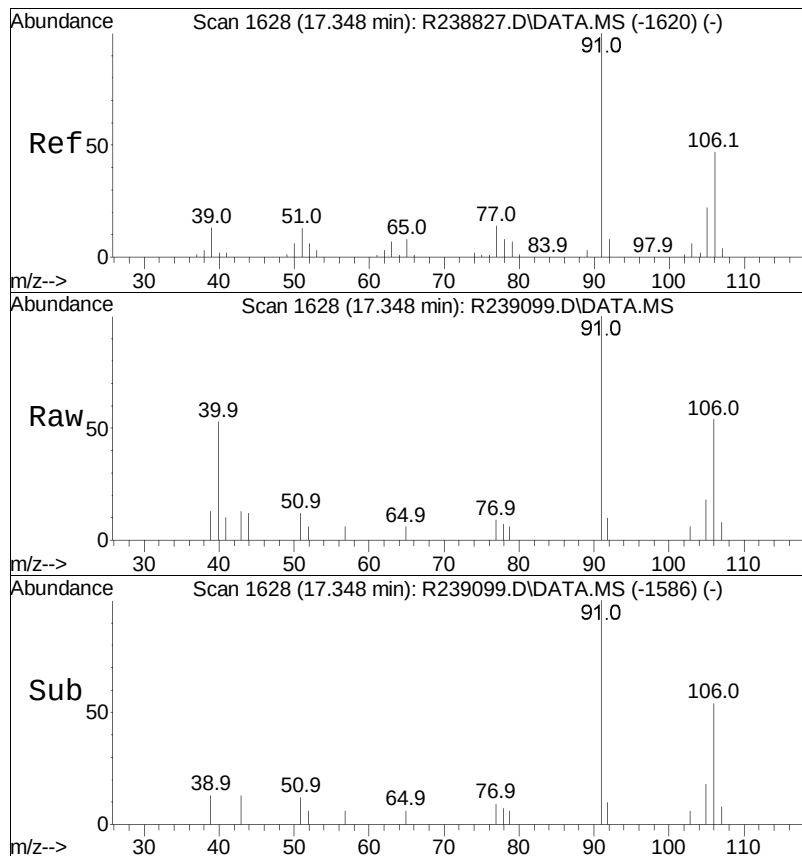




#81
ethylbenzene
Concen: 0.07 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239099.D
Acq: 19 Feb 2016 10:50 pm

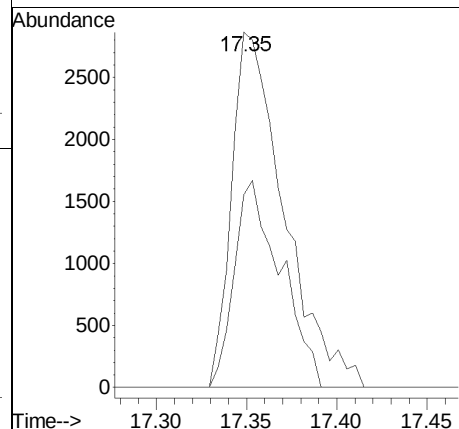
Tgt	Ion	Resp	Lower	Upper
91	100	3081		
106	41.3	24.5	36.7#	

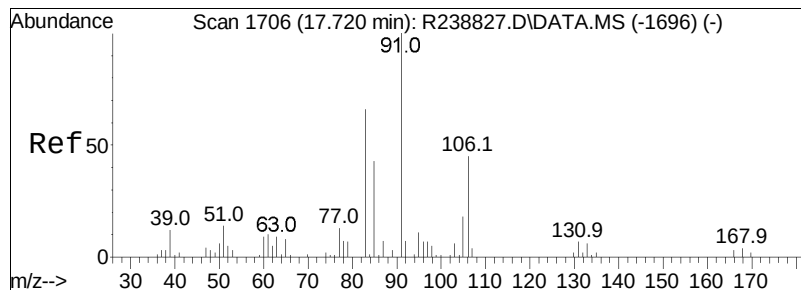




#83
 m+p-xylene
 Concen: 0.17 ppbV
 RT: 17.35 min Scan# 1628
 Delta R.T. 0.000 min
 Lab File: R239099.D
 Acq: 19 Feb 2016 10:50 pm

Tgt Ion: 91 Resp: 5797
 Ion Ratio Lower Upper
 91 100
 106 54.2 37.7 56.5





#87

o-xylene

Concen: 0.06 ppbV

RT: 17.72 min Scan# 1707

Delta R.T. 0.005 min

Lab File: R239099.D

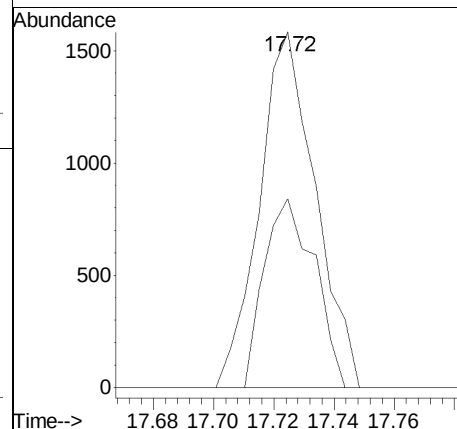
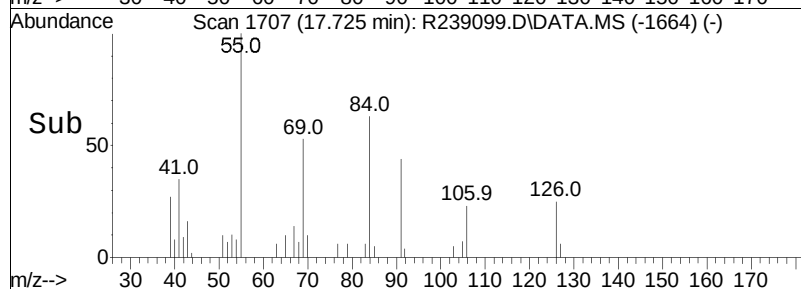
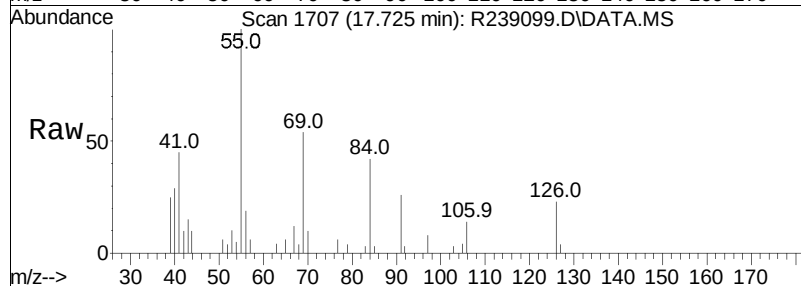
Acq: 19 Feb 2016 10:50 pm

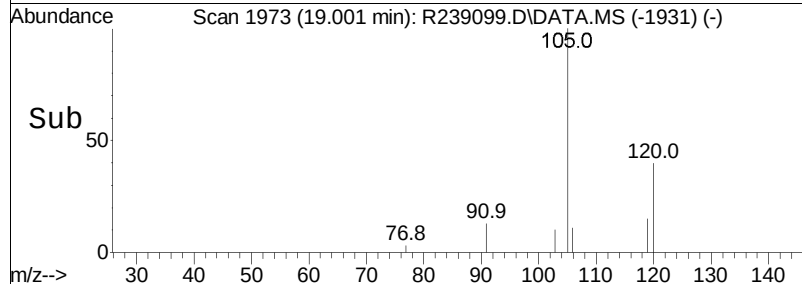
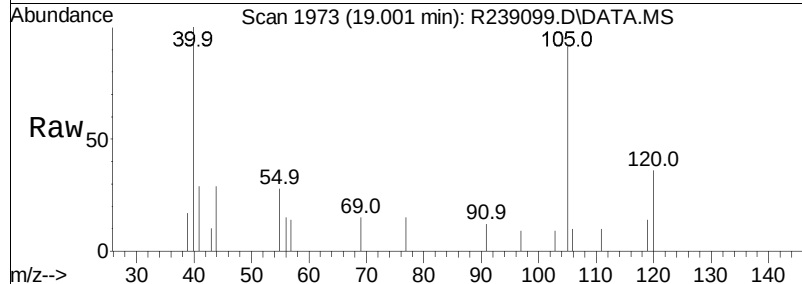
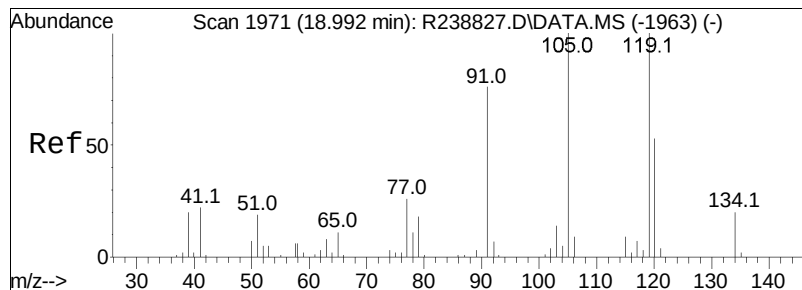
Tgt Ion: 91 Resp: 2046

Ion Ratio Lower Upper

91 100

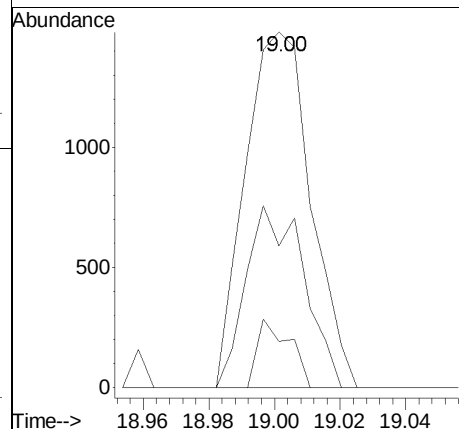
106 53.1 35.8 53.6





#99
 1,2,4-trimethylbenzene
 Concen: 0.05 ppbV
 RT: 19.00 min Scan# 1973
 Delta R.T. 0.010 min
 Lab File: R239099.D
 Acq: 19 Feb 2016 10:50 pm

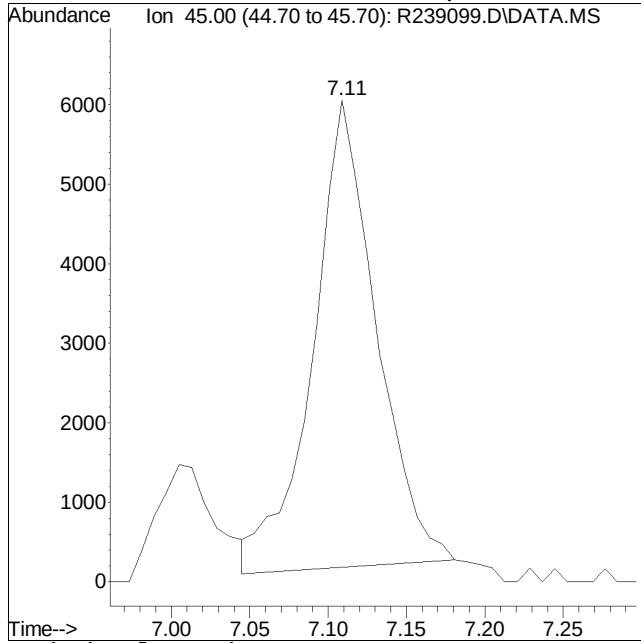
Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.9	42.2	63.4#
91	13.0	61.1	91.7#



Manual Integration/Negative Proof Report

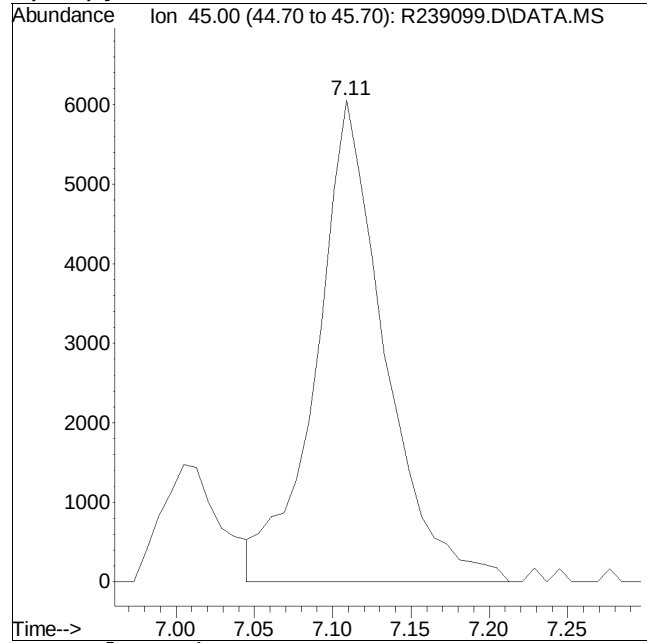
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239099.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 10:50 pm Instrument : Air Piano 2
Sample : L1604136-08D,3,125,250 Quant Date : 2/19/2016 11:33 pm

Compound #22: isopropyl alcohol



Original Peak Response = 16504

M4 = Poor automated baseline construction.

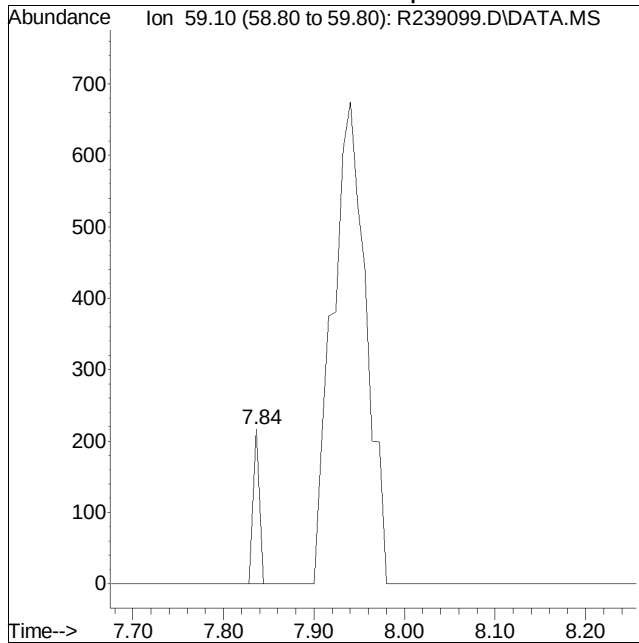


Manual Peak Response = 18368 M4

Manual Integration/Negative Proof Report

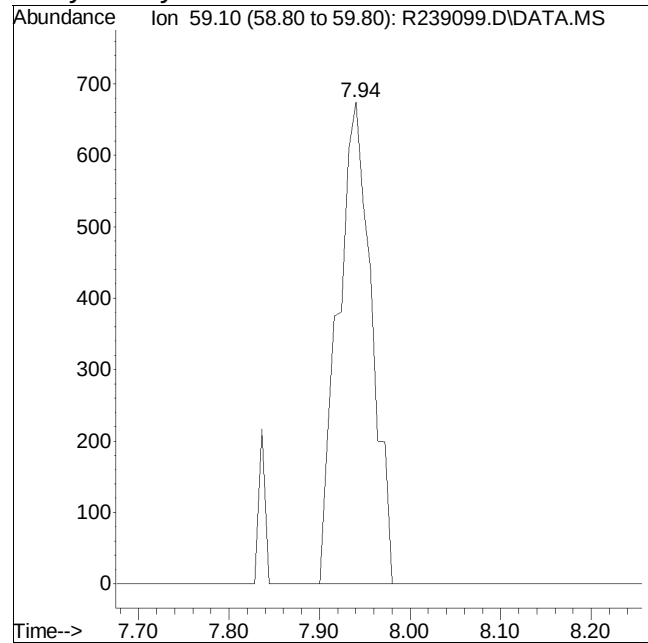
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239099.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 10:50 pm Instrument : Air Piano 2
Sample : L1604136-08D,3,125,250 Quant Date : 2/19/2016 11:33 pm

Compound #27: tertiary butyl alcohol



Original Peak Response = 104

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 1730 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239108.D
 Acq On : 20 Feb 2016 8:33 am
 Operator : AIRPIAN02:RY
 Sample : L1604136-08D2,3,25,250
 Misc : WG866471,ICAL12008
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 20 10:50:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : ACETONE,IPA,EA - Sub List Unknown

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	142800	10.000	ppbV	0.00
Standard Area = 147221			Recovery =	97.00%		
43) 1,4-difluorobenzene	12.541	114	372314	10.000	ppbV	0.00
Standard Area = 368790			Recovery =	100.96%		
67) chlorobenzene-D5	16.891	54	81031	10.000	ppbV	0.00
Standard Area = 80342			Recovery =	100.86%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue	
19) acetone	6.653	43	41599	2.487	ppbV	#	97
22) isopropyl alcohol	0.000		0	N.D.	d		
38) Ethyl Acetate	10.461	61	118038	37.258	ppbV		71

 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ACETONE,IPA,EA - Sub List Unknown9T\R239086.D

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\

Data File : R239108.D

Acq On : 20 Feb 2016 8:33 am

Operator : AIRPIAN02:RY

Sample : L1604136-08D2,3,25,250

Misc : WG866471,ICAL12008

ALS Vial : 8 Sample Multiplier: 1

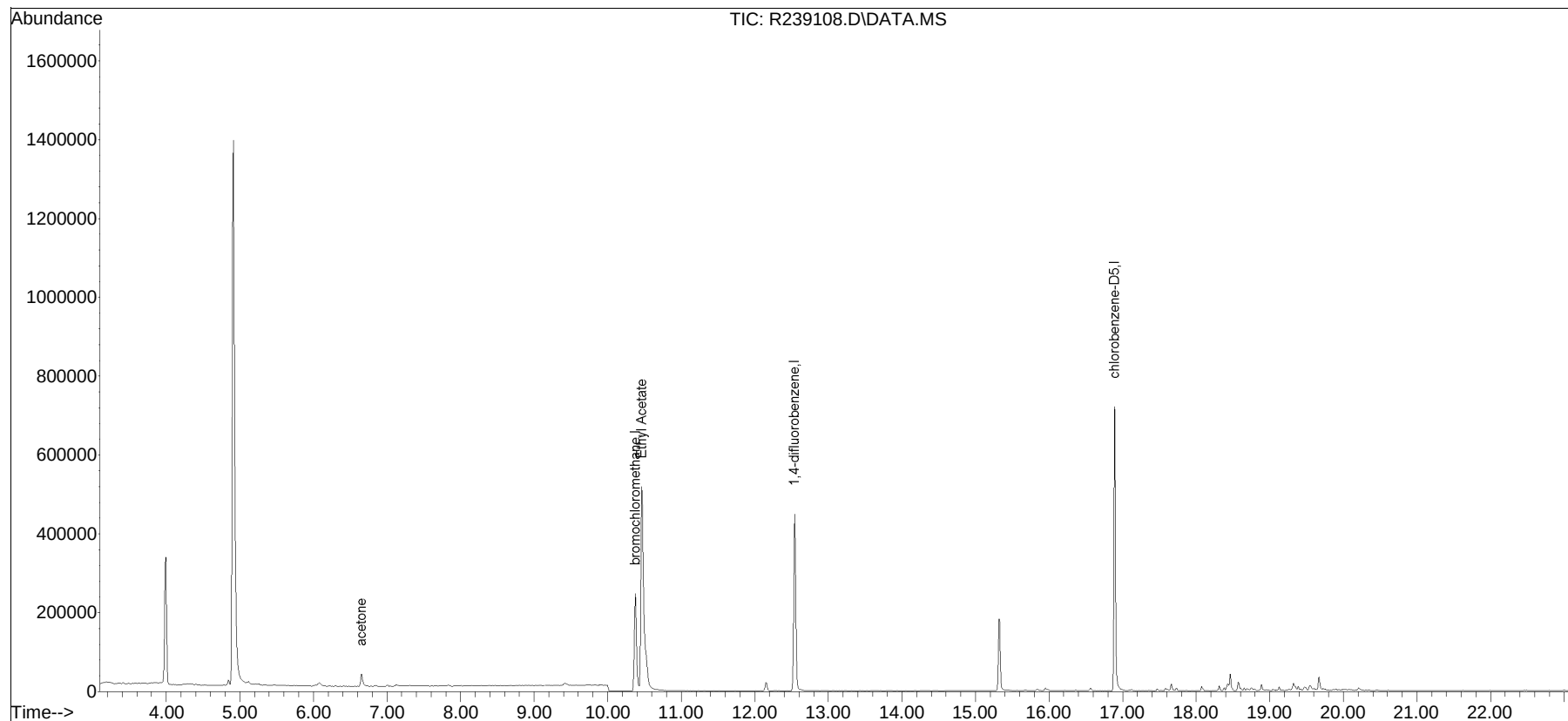
Quant Time: Feb 20 10:50:37 2016

Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

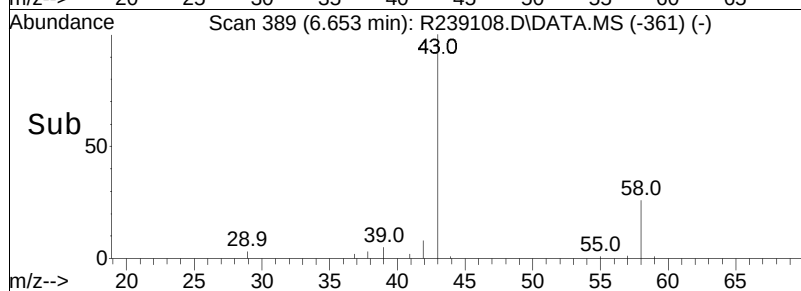
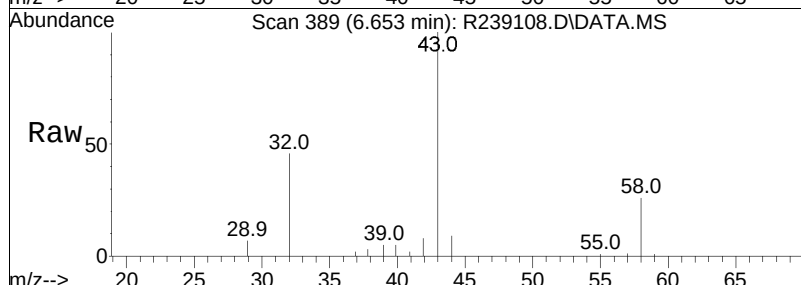
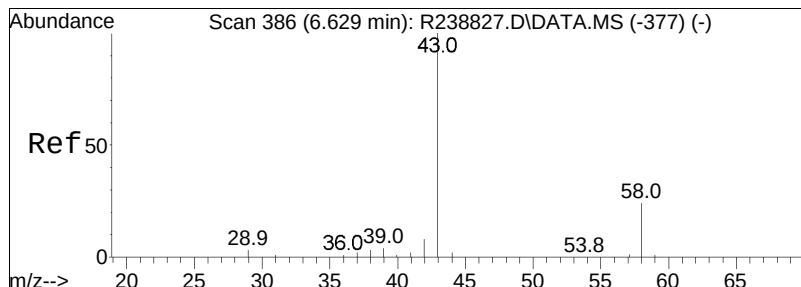
QLast Update : Mon Feb 08 10:04:44 2016

Response via : Initial Calibration



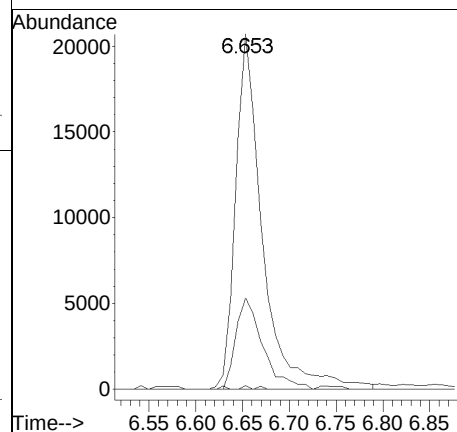
TALL160207.M Mon Feb 22 09:52:16 2016

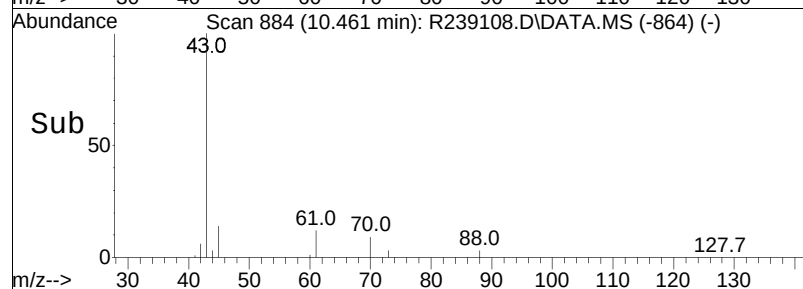
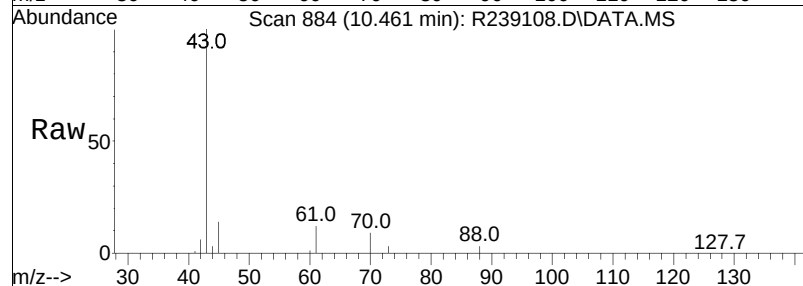
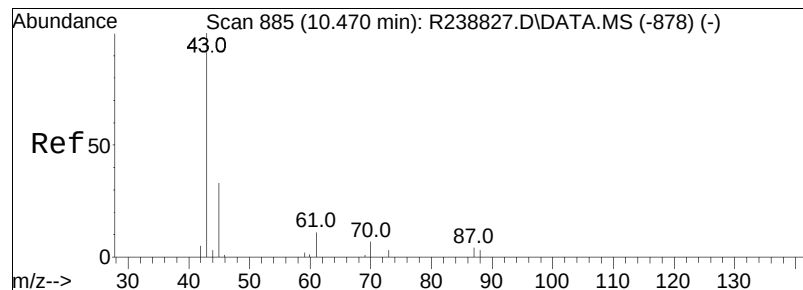
Page 2



#19
acetone
Concen: 2.49 ppbV
RT: 6.653 min Scan# 389
Delta R.T. 0.024 min
Lab File: R239108.D
Acq: 20 Feb 2016 8:33 am

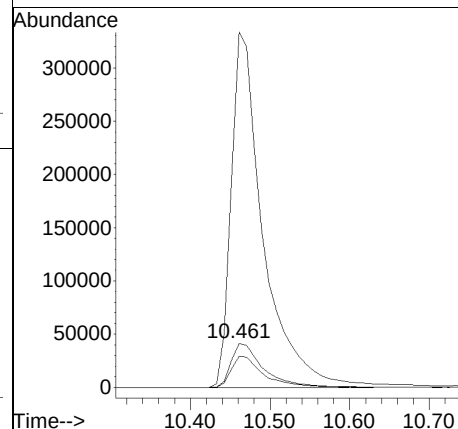
Tgt Ion: 43 Resp: 41599
Ion Ratio Lower Upper
43 100
58 25.7 19.2 28.8
57 1.1 0.6 1.0#





#38
 Ethyl Acetate
 Concen: 37.26 ppbV
 RT: 10.461 min Scan# 884
 Delta R.T. -0.009 min
 Lab File: R239108.D
 Acq: 20 Feb 2016 8:33 am

Tgt Ion:	61	Resp:	118038
Ion Ratio	Lower	Upper	
61	100		
70	70.7	54.6	81.8
43	808.2	753.4	1130.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2016Q	Method	: TALL160207.M
Data File	: R239108.D	Operator	: AIRPIAN02:RY
Date Inj'd	: 2/20/2016 8:33 am	Instrument	: Air Piano 2
Sample	: L1604136-08D2,3,25,250	Quant Date	: 2/20/2016 9:29 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental
Project Name : 450 UNION STREET
Instrument ID : AIRPIANO2
Calibration dates : 02/07/16 23:39 02/08/16 03:39
Lab Number : L1604136
Project Number : 170301202
Ical Ref : ICAL12008

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	1.532	1.477	1.398	1.209	1.166	1.186	1.089	0.994	1.2563	15.25
3) propylene	1.084	0.892	0.825	0.676	0.642	0.674	0.609	0.562	0.7457	23.50
4) propane	1.151	0.826	0.824	0.665	0.631	0.661	0.605	0.560	0.7404	25.93
5) dichlorodifluoromethane	1.421	1.500	1.385	1.296	1.267	1.256	1.025	0.962	1.2639	14.79
6) C chloromethane	0.895	0.780	0.808	0.656	0.637	0.653	0.608	0.555	0.6991	16.54
7) Freon-114	2.030	2.056	1.973	1.624	1.569	1.607	1.413	1.287	1.6947	17.20
8) C methanol			0.383	0.306	0.297	0.303	0.283	0.252	0.3038	14.29
9) C vinyl chloride	0.771	0.785	0.752	0.654	0.633	0.651	0.605	0.551	0.6753	12.56
10) C 1,3-butadiene	0.645	0.588	0.610	0.495	0.496	0.506	0.472	0.433	0.5308	14.00
11) butane	1.561	1.361	1.461	1.164	1.138	1.154	1.075	0.979	1.2366	16.32
12) C acetaldehyde		0.596	0.595	0.486	0.462	0.471	0.436	0.381	0.4896	16.26
13) C bromomethane	0.741	0.651	0.645	0.537	0.542	0.532	0.497	0.445	0.5737	16.86
14) C chloroethane	0.274	0.373	0.359	0.306	0.302	0.302	0.284	0.260	0.3076	12.82
15) ethanol		0.726	0.716	0.595	0.573	0.593	0.544	0.479	0.6037	14.77
16) dichlorofluoromethane	1.709	1.627	1.576	1.345	1.320	1.337	1.233	1.117	1.4080	14.68
17) C vinyl bromide	0.659	0.652	0.642	0.542	0.523	0.548	0.501	0.449	0.5646	13.81
18) C acrolein		0.397	0.364	0.283	0.274	0.280	0.259	0.239	0.2996	19.40
19) acetone	1.372	1.354	1.354	1.137	1.125	1.129	1.014	0.888	1.1716	15.05
20) C acetonitrile	1.115	0.835	0.865	0.706	0.681	0.679	0.636	0.579	0.7619	22.56
21) trichlorofluoromethane	1.819	1.822	1.831	1.533	1.502	1.538	1.401	1.254	1.5875	13.62
22) isopropyl alcohol	1.762	1.503	1.518	1.262	1.231	1.250	1.158	1.027	1.3387	17.71
23) C acrylonitrile	0.755	0.621	0.694	0.482	0.494	0.502	0.480	0.442	0.5588	20.73
24) pentane	1.766	1.563	1.620	1.282	1.231	1.271	1.172	1.060	1.3706	18.07
25) ethyl ether	1.507	1.390	1.338	1.113	1.083	1.090	0.991	0.889	1.1750	18.14
26) C 1,1-dichloroethene	1.325	1.351	1.405	1.162	1.127	1.159	1.076	0.990	1.1993	12.13
27) tertiary butyl alcohol		1.856	1.801	1.472	1.449	1.495	1.390	1.248	1.5301	14.37
28) C methylene chloride		1.139	1.151	0.943	0.918	0.936	0.874	0.805	0.9666	13.53
29) C 3-chloropropene	1.485	1.383	1.323	1.093	1.075	1.100	1.029	0.942	1.1788	16.32
30) C carbon disulfide	2.195	2.210	2.205	1.838	1.870	1.895	1.779	1.593	1.9480	11.82
31) Freon 113	1.539	1.493	1.558	1.292	1.290	1.293	1.192	1.054	1.3387	13.28
32) trans-1,2-dichloroethene	1.209	1.314	1.299	1.104	1.096	1.113	1.044	0.972	1.1437	10.54
33) C 1,1-dichloroethane	1.505	1.516	1.485	1.280	1.261	1.278	1.192	1.107	1.3282	11.66
34) C MTBE	2.228	2.181	2.230	1.855	1.817	1.867	1.748	1.606	1.9414	12.33
35) C vinyl acetate	1.723	1.623	1.764	1.582	1.696	1.879	1.868	1.755	1.7364	6.05
36) C 2-butanone	2.023	2.042	2.087	1.727	1.759	1.828	1.694	1.578	1.8423	10.15
37) cis-1,2-dichloroethene	1.198	1.186	1.171	0.995	0.975	1.003	0.934	0.863	1.0405	12.23
38) Ethyl Acetate		0.215	0.233	0.219	0.222	0.239	0.224	0.202	0.2219	5.42
39) C chloroform	1.693	1.609	1.603	1.357	1.338	1.374	1.252	1.111	1.4172	14.13
40) Tetrahydrofuran	1.612	1.351	1.185	1.021	1.023	1.035	0.970	0.899	1.1370	20.90

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental **Lab Number** : L1604136
Project Name : 450 UNION STREET **Project Number** : 170301202
Instrument ID : AIRPIANO2 **Ical Ref** : ICAL12008
Calibration dates : 02/07/16 23:39 02/08/16 03:39

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
41)	2,2-dichloropropane	1.569	1.487	1.535	1.251	1.254	1.269	1.166	1.050	1.3227	14.12
42) C	1,2-dichloroethane	1.078	1.178	1.160	1.009	1.012	1.019	0.946	0.859	1.0326	10.26
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.718	0.617	0.597	0.516	0.518	0.547	0.504	0.481	0.5623	13.90
45)	diisopropyl ether	0.341	0.271	0.281	0.225	0.226	0.238	0.217	0.207	0.2507	17.87
46)	tert-butyl ethyl ether	1.279	1.282	1.240	1.049	1.031	1.083	1.015	0.996	1.1217	11.01
47) s	1,2-dichloroethane-D4	0.279	0.284	0.283	0.276	0.281	0.282	0.279	0.282	0.2807	0.90
48) C	1,1,1-trichloroethane	0.987	0.883	0.875	0.713	0.709	0.742	0.682	0.652	0.7804	15.25
49)	1,1-dichloropropene	0.564	0.566	0.553	0.467	0.459	0.483	0.461	0.450	0.5003	10.20
50) C	benzene	1.162	1.107	1.059	0.905	0.882	0.951	0.879	0.852	0.9746	12.13
51)	thiophene	0.731	0.680	0.711	0.589	0.593	0.624	0.590	0.578	0.6371	9.64
52) C	carbon tetrachloride	0.876	0.765	0.769	0.670	0.657	0.699	0.653	0.623	0.7139	11.76
53)	cyclohexane	0.747	0.682	0.668	0.549	0.540	0.565	0.533	0.526	0.6014	14.11
54)	tert-amyl methyl ether	1.113	1.030	1.044	0.899	0.878	0.933	0.883	0.858	0.9547	9.92
55)	dibromomethane	0.412	0.414	0.432	0.368	0.374	0.389	0.373	0.354	0.3895	6.94
56) C	1,2-dichloropropane	0.462	0.454	0.412	0.368	0.361	0.382	0.363	0.356	0.3947	10.86
57)	bromodichloromethane	0.828	0.843	0.807	0.717	0.699	0.759	0.708	0.687	0.7562	8.24
58) C	1,4-dioxane	0.205	0.229	0.244	0.208	0.207	0.222	0.211	0.201	0.2159	6.76
59) C	trichloroethene	0.391	0.436	0.469	0.402	0.389	0.404	0.375	0.355	0.4026	8.89
60) C	2,2,4-trimethylpentane	2.111	1.947	2.059	1.764	1.718	1.820	1.718	1.649	1.8483	9.25
61)	methyl methacrylate	0.620	0.647	0.626	0.545	0.539	0.569	0.563	0.556	0.5831	7.12
62)	heptane	0.882	0.919	0.853	0.748	0.745	0.780	0.742	0.722	0.7988	9.37
63) C	cis-1,3-dichloropropene	0.529	0.533	0.564	0.496	0.511	0.537	0.521	0.506	0.5247	4.04
64) C	4-methyl-2-pentanone	1.142	1.121	1.227	1.012	1.014	1.056	1.002	0.970	1.0678	8.20
65)	trans-1,3-dichloropropene	0.805	0.827	0.801	0.698	0.726	0.773	0.747	0.730	0.7634	5.93
66) C	1,1,2-trichloroethane	0.640	0.631	0.619	0.518	0.512	0.538	0.509	0.493	0.5577	11.05
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	7.595	7.484	7.384	6.295	6.330	6.560	6.067	5.778	6.6867	10.51
69) s	toluene-D8	4.355	4.481	4.570	4.364	4.422	4.484	4.474	4.461	4.4513	1.58
70)	2-methylthiophene	6.862	6.595	6.424	5.164	5.235	5.423	5.089	4.880	5.7091	13.73
71)	1,3-dichloropropane	2.919	3.421	3.385	2.880	2.846	2.949	2.765	2.657	2.9777	9.34
72)	2-hexanone	4.396	4.999	5.481	5.168	5.373	5.571	5.318	4.966	5.1589	7.29
73)	3-methylthiophene	6.610	6.788	6.516	5.370	5.351	5.519	5.068	4.711	5.7416	13.66
74)	dibromochloromethane	4.663	4.884	4.768	4.094	4.135	4.339	4.064	3.752	4.3374	9.16
75) C	1,2-dibromoethane	3.752	3.831	3.976	3.296	3.357	3.479	3.271	3.116	3.5100	8.76
76)	butyl acetate	0.696	0.767	0.771	0.670	0.682	0.702	0.663	0.647	0.6997	6.59
77)	octane	2.327	2.179	2.149	1.836	1.861	1.880	1.751	1.671	1.9567	11.86
78) C	tetrachloroethene	3.455	3.298	3.351	2.865	2.853	2.927	2.758	2.656	3.0203	9.98
79)	1,1,1,2-tetrachloroethane	2.273	2.238	2.197	1.891	1.904	1.970	1.811	1.665	1.9936	11.04
80) C	chlorobenzene	4.307	4.055	4.118	3.475	3.478	3.585	3.360	3.173	3.6940	11.10

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental **Lab Number** : L1604136
Project Name : 450 UNION STREET **Project Number** : 170301202
Instrument ID : AIRPIANO2 **Ical Ref** : ICAL12008
Calibration dates : 02/07/16 23:39 02/08/16 03:39

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
81) C ethylbenzene	6.816	6.680	6.768	5.687	5.698	5.871	5.453	5.173	6.0182	10.70
82) 2-ethylthiophene	5.335	5.373	5.319	4.482	4.552	4.750	4.436	4.116	4.7954	10.12
83) C m+p-xylene	5.115	5.266	5.234	4.435	4.454	4.588	4.258	3.935	4.6607	10.54
84) C bromoform	2.934	3.023	3.125	2.693	2.781	2.935	2.736	2.553	2.8475	6.64
85) C styrene	3.780	4.065	3.991	3.383	3.476	3.633	3.326	3.162	3.6020	8.98
86) C 1,1,2,2-tetrachloroethane	3.856	3.919	3.920	3.372	3.398	3.521	3.204	2.848	3.5047	10.88
87) C o-xylene	5.395	5.520	5.466	4.605	4.590	4.730	4.259	3.765	4.7913	13.12
88) 1,2,3-trichloropropane	3.167	3.115	3.215	2.734	2.739	2.850	2.674	2.540	2.8795	8.80
89) nonane	5.055	5.288	4.998	4.327	4.292	4.558	4.290	3.882	4.5864	10.49
90) s bromofluorobenzene	2.148	2.199	2.232	2.168	2.202	2.230	2.234	2.247	2.2075	1.59
91) C isopropylbenzene	7.876	7.509	7.287	6.212	6.177	6.297	5.848	5.371	6.5720	13.38
92) bromobenzene	3.895	4.084	4.105	3.420	3.432	3.592	3.376	3.188	3.6363	9.56
93) 2-chlorotoluene	1.708	1.921	1.890	1.627	1.629	1.705	1.535	1.426	1.6799	9.92
94) n-propylbenzene	1.942	2.029	2.081	1.726	1.765	1.828	1.677	1.523	1.8214	10.33
95) 4-chlorotoluene	6.347	6.123	5.905	5.130	5.073	5.191	4.626	4.495	5.3613	12.81
96) 4-ethyl toluene	7.997	7.650	7.983	6.871	6.864	7.103	6.519	6.010	7.1245	9.95
97) 1,3,5-trimethylbenzene	6.847	6.736	6.792	5.536	5.592	5.722	5.215	4.805	5.9056	13.30
98) tert-butylbenzene	6.975	6.891	6.823	5.845	5.715	5.852	5.075	4.357	5.9417	15.68
99) 1,2,4-trimethylbenzene	6.035	6.316	6.476	5.554	5.517	5.608	4.945	4.229	5.5850	13.17
100) decane	4.835	4.746	4.715	4.188	4.191	4.308	4.003	3.564	4.3188	10.01
101) C Benzyl Chloride	5.053	5.313	5.604	5.182	5.340	5.723	5.342	4.892	5.3060	5.12
102) 1,3-dichlorobenzene	4.149	4.193	4.199	3.722	3.719	3.780	3.492	3.222	3.8096	9.29
103) C 1,4-dichlorobenzene	4.429	4.413	4.480	3.879	3.796	3.875	3.523	3.134	3.9411	12.16
104) sec-butylbenzene	9.396	9.367	9.334	8.178	7.984	8.184	7.363	6.434	8.2799	12.83
105) 1,2,3-trimethylbenzene	6.036	5.946	6.064	5.065	5.043	5.265	4.779	4.211	5.3013	12.60
106) p-isopropyltoluene	8.422	8.527	8.380	7.268	7.257	7.427	6.576	5.649	7.4383	13.49
107) 1,2-dichlorobenzene	4.024	4.155	4.155	3.636	3.625	3.683	3.379	3.180	3.7295	9.59
108) n-butylbenzene	7.239	7.689	7.744	6.896	6.884	6.950	6.250	5.692	6.9178	9.97
109) indan	6.653	6.385	6.485	5.557	5.412	5.688	5.186	4.760	5.7658	11.75
110) indene	4.915	5.240	5.207	4.452	4.510	4.798	4.341	4.053	4.6895	9.01
111) C 1,2-dibromo-3-chloropropane	2.064	2.062	2.137	1.956	2.029	2.091	1.994	1.872	2.0257	4.13
112) undecane	4.861	5.111	5.232	4.913	4.954	4.961	4.598	4.056	4.8358	7.55
113) 1,2,4,5-tetramethylbenzene	4.189	4.204	4.112	4.125	4.077	3.815	3.657	3.469	3.9561	6.96
114) dodecane	5.036	5.005	5.440	5.419	5.622	5.244	4.675	3.780	5.0276	11.66
115) C 1,2,4-trichlorobenzene	3.030	3.265	3.302	3.366	3.395	3.274	2.946	2.413	3.1239	10.49
116) naphthalene	7.390	7.816	8.316	8.247	8.212	7.961	7.455	7.026	7.8032	6.03
117) 1,2,3-trichlorobenzene	2.877	3.204	3.319	3.265	3.282	3.182	3.112	2.979	3.1525	4.92
118) benzothiophene		4.284	4.407	3.939	3.944	4.329	4.194	4.032	4.1612	4.58
119) C hexachlorobutadiene	2.896	2.868	2.957	2.816	2.856	2.762	2.610	2.337	2.7628	7.27
120) 2-methylnaphthalene			2.160	2.269	2.464	2.555	2.647	2.677	2.4620	8.47

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental **Lab Number** : L1604136
Project Name : 450 UNION STREET **Project Number** : 170301202
Instrument ID : AIRPIANO2 **Ical Ref** : ICAL12008
Calibration dates : 02/07/16 23:39 02/08/16 03:39

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
50 =R238829.D 100 =R238830.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
121)	1-methylnaphthalene	3.486	3.434	3.459	3.323	3.328	3.319	3.3916			2.25



Response Factor Report Air Piano 2

Method Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Method File : TALL160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Feb 08 10:04:44 2016
 Response Via : Initial Calibration

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
-----ISTD-----											
1) I	bromochloromethane										
2)	chlorodifluoromethane	1.532	1.477	1.398	1.209	1.166	1.186	1.089	0.994	1.2563	15.25
3)	propylene	1.084	0.892	0.825	0.676	0.642	0.674	0.609	0.562	0.7457	23.50
4)	propane	1.151	0.826	0.824	0.665	0.631	0.661	0.605	0.560	0.7404	25.93
5)	dichlorodifluoromethane	1.421	1.500	1.385	1.296	1.267	1.256	1.025	0.962	1.2639	14.79
6) C	chloromethane	0.895	0.780	0.808	0.656	0.637	0.653	0.608	0.555	0.6991	16.54
7)	Freon-114	2.030	2.056	1.973	1.624	1.569	1.607	1.413	1.287	1.6947	17.20
8) C	methanol			0.383	0.306	0.297	0.303	0.283	0.252	0.3038	14.29
9) C	vinyl chloride	0.771	0.785	0.752	0.654	0.633	0.651	0.605	0.551	0.6753	12.56
10) C	1,3-butadiene	0.645	0.588	0.610	0.495	0.496	0.506	0.472	0.433	0.5308	14.00
11)	butane	1.561	1.361	1.461	1.164	1.138	1.154	1.075	0.979	1.2366	16.32
12) C	acetaldehyde		0.596	0.595	0.486	0.462	0.471	0.436	0.381	0.4896	16.26
13) C	bromomethane	0.741	0.651	0.645	0.537	0.542	0.532	0.497	0.445	0.5737	16.86
14) C	chloroethane	0.274	0.373	0.359	0.306	0.302	0.302	0.284	0.260	0.3076	12.82
15)	ethanol		0.726	0.716	0.595	0.573	0.593	0.544	0.479	0.6037	14.77
16)	dichlorofluoromethane	1.709	1.627	1.576	1.345	1.320	1.337	1.233	1.117	1.4080	14.68
17) C	vinyl bromide	0.659	0.652	0.642	0.542	0.523	0.548	0.501	0.449	0.5646	13.81
18) C	acrolein		0.397	0.364	0.283	0.274	0.280	0.259	0.239	0.2996	19.40
19)	acetone	1.372	1.354	1.354	1.137	1.125	1.129	1.014	0.888	1.1716	15.05
20) C	acetonitrile	1.115	0.835	0.865	0.706	0.681	0.679	0.636	0.579	0.7619	22.56
21)	trichlorofluoromethane	1.819	1.822	1.831	1.533	1.502	1.538	1.401	1.254	1.5875	13.62
22)	isopropyl alcohol	1.762	1.503	1.518	1.262	1.231	1.250	1.158	1.027	1.3387	17.71
23) C	acrylonitrile	0.755	0.621	0.694	0.482	0.494	0.502	0.480	0.442	0.5588	20.73
24)	pentane	1.766	1.563	1.620	1.282	1.231	1.271	1.172	1.060	1.3706	18.07
25)	ethyl ether	1.507	1.390	1.338	1.113	1.083	1.090	0.991	0.889	1.1750	18.14
26) C	1,1-dichloroethene	1.325	1.351	1.405	1.162	1.127	1.159	1.076	0.990	1.1993	12.13
27)	tertiary butyl alcohol		1.856	1.801	1.472	1.449	1.495	1.390	1.248	1.5301	14.37
28) C	methylene chloride		1.139	1.151	0.943	0.918	0.936	0.874	0.805	0.9666	13.53
29) C	3-chloropropene	1.485	1.383	1.323	1.093	1.075	1.100	1.029	0.942	1.1788	16.32
30) C	carbon disulfide	2.195	2.210	2.205	1.838	1.870	1.895	1.779	1.593	1.9480	11.82
31)	Freon 113	1.539	1.493	1.558	1.292	1.290	1.293	1.192	1.054	1.3387	13.28

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Method File : TALL160207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Feb 08 10:04:44 2016
 Response Via : Initial Calibration

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dichloroethene	1.209	1.314	1.299	1.104	1.096	1.113	1.044	0.972	1.1437	10.54
33) C	1,1-dichloroethane	1.505	1.516	1.485	1.280	1.261	1.278	1.192	1.107	1.3282	11.66
34) C	MTBE	2.228	2.181	2.230	1.855	1.817	1.867	1.748	1.606	1.9414	12.33
35) C	vinyl acetate	1.723	1.623	1.764	1.582	1.696	1.879	1.868	1.755	1.7364	6.05
36) C	2-butanone	2.023	2.042	2.087	1.727	1.759	1.828	1.694	1.578	1.8423	10.15
37)	cis-1,2-dichloroethene	1.198	1.186	1.171	0.995	0.975	1.003	0.934	0.863	1.0405	12.23
38)	Ethyl Acetate		0.215	0.233	0.219	0.222	0.239	0.224	0.202	0.2219	5.42
39) C	chloroform	1.693	1.609	1.603	1.357	1.338	1.374	1.252	1.111	1.4172	14.13
40)	Tetrahydrofuran	1.612	1.351	1.185	1.021	1.023	1.035	0.970	0.899	1.1370	20.90
41)	2,2-dichloropropane	1.569	1.487	1.535	1.251	1.254	1.269	1.166	1.050	1.3227	14.12
42) C	1,2-dichloroethane	1.078	1.178	1.160	1.009	1.012	1.019	0.946	0.859	1.0326	10.26
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.718	0.617	0.597	0.516	0.518	0.547	0.504	0.481	0.5623	13.90
45)	diisopropyl ether	0.341	0.271	0.281	0.225	0.226	0.238	0.217	0.207	0.2507	17.87
46)	tert-butyl ethyl ether	1.279	1.282	1.240	1.049	1.031	1.083	1.015	0.996	1.1217	11.01
47) s	1,2-dichloroethane-D4	0.279	0.284	0.283	0.276	0.281	0.282	0.279	0.282	0.2807	0.90
48) C	1,1,1-trichloroethane	0.987	0.883	0.875	0.713	0.709	0.742	0.682	0.652	0.7804	15.25
49)	1,1-dichloropropene	0.564	0.566	0.553	0.467	0.459	0.483	0.461	0.450	0.5003	10.20
50) C	benzene	1.162	1.107	1.059	0.905	0.882	0.951	0.879	0.852	0.9746	12.13
51)	thiophene	0.731	0.680	0.711	0.589	0.593	0.624	0.590	0.578	0.6371	9.64
52) C	carbon tetrachloride	0.876	0.765	0.769	0.670	0.657	0.699	0.653	0.623	0.7139	11.76
53)	cyclohexane	0.747	0.682	0.668	0.549	0.540	0.565	0.533	0.526	0.6014	14.11
54)	tert-amyl methyl ether	1.113	1.030	1.044	0.899	0.878	0.933	0.883	0.858	0.9547	9.92
55)	dibromomethane	0.412	0.414	0.432	0.368	0.374	0.389	0.373	0.354	0.3895	6.94
56) C	1,2-dichloropropane	0.462	0.454	0.412	0.368	0.361	0.382	0.363	0.356	0.3947	10.86
57)	bromodichloromethane	0.828	0.843	0.807	0.717	0.699	0.759	0.708	0.687	0.7562	8.24
58) C	1,4-dioxane	0.205	0.229	0.244	0.208	0.207	0.222	0.211	0.201	0.2159	6.76
59) C	trichloroethene	0.391	0.436	0.469	0.402	0.389	0.404	0.375	0.355	0.4026	8.89
60) C	2,2,4-trimethylpentane	2.111	1.947	2.059	1.764	1.718	1.820	1.718	1.649	1.8483	9.25
61)	methyl methacrylate	0.620	0.647	0.626	0.545	0.539	0.569	0.563	0.556	0.5831	7.12
62)	heptane	0.882	0.919	0.853	0.748	0.745	0.780	0.742	0.722	0.7988	9.37

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Method File : TALL160207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Feb 08 10:04:44 2016
 Response Via : Initial Calibration

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichloropropene	0.529	0.533	0.564	0.496	0.511	0.537	0.521	0.506	0.5247	4.04
64) C	4-methyl-2-pentanone	1.142	1.121	1.227	1.012	1.014	1.056	1.002	0.970	1.0678	8.20
65)	trans-1,3-dichloropropene	0.805	0.827	0.801	0.698	0.726	0.773	0.747	0.730	0.7634	5.93
66) C	1,1,2-trichloroethane	0.640	0.631	0.619	0.518	0.512	0.538	0.509	0.493	0.5577	11.05
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	7.595	7.484	7.384	6.295	6.330	6.560	6.067	5.778	6.6867	10.51
69) s	toluene-D8	4.355	4.481	4.570	4.364	4.422	4.484	4.474	4.461	4.4513	1.58
70)	2-methylthiophene	6.862	6.595	6.424	5.164	5.235	5.423	5.089	4.880	5.7091	13.73
71)	1,3-dichloropropane	2.919	3.421	3.385	2.880	2.846	2.949	2.765	2.657	2.9777	9.34
72)	2-hexanone	4.396	4.999	5.481	5.168	5.373	5.571	5.318	4.966	5.1589	7.29
73)	3-methylthiophene	6.610	6.788	6.516	5.370	5.351	5.519	5.068	4.711	5.7416	13.66
74)	dibromochloromethane	4.663	4.884	4.768	4.094	4.135	4.339	4.064	3.752	4.3374	9.16
75) C	1,2-dibromoethane	3.752	3.831	3.976	3.296	3.357	3.479	3.271	3.116	3.5100	8.76
76)	butyl acetate	0.696	0.767	0.771	0.670	0.682	0.702	0.663	0.647	0.6997	6.59
77)	octane	2.327	2.179	2.149	1.836	1.861	1.880	1.751	1.671	1.9567	11.86
78) C	tetrachloroethene	3.455	3.298	3.351	2.865	2.853	2.927	2.758	2.656	3.0203	9.98
79)	1,1,1,2-tetrachloroethane	2.273	2.238	2.197	1.891	1.904	1.970	1.811	1.665	1.9936	11.04
80) C	chlorobenzene	4.307	4.055	4.118	3.475	3.478	3.585	3.360	3.173	3.6940	11.10
81) C	ethylbenzene	6.816	6.680	6.768	5.687	5.698	5.871	5.453	5.173	6.0182	10.70
82)	2-ethylthiophene	5.335	5.373	5.319	4.482	4.552	4.750	4.436	4.116	4.7954	10.12
83) C	m+p-xylene	5.115	5.266	5.234	4.435	4.454	4.588	4.258	3.935	4.6607	10.54
84) C	bromoform	2.934	3.023	3.125	2.693	2.781	2.935	2.736	2.553	2.8475	6.64
85) C	styrene	3.780	4.065	3.991	3.383	3.476	3.633	3.326	3.162	3.6020	8.98
86) C	1,1,2,2-tetrachloroethane	3.856	3.919	3.920	3.372	3.398	3.521	3.204	2.848	3.5047	10.88
87) C	o-xylene	5.395	5.520	5.466	4.605	4.590	4.730	4.259	3.765	4.7913	13.12
88)	1,2,3-trichloropropane	3.167	3.115	3.215	2.734	2.739	2.850	2.674	2.540	2.8795	8.80
89)	nonane	5.055	5.288	4.998	4.327	4.292	4.558	4.290	3.882	4.5864	10.49
90) s	bromofluorobenzene	2.148	2.199	2.232	2.168	2.202	2.230	2.234	2.247	2.2075	1.59
91) C	isopropylbenzene	7.876	7.509	7.287	6.212	6.177	6.297	5.848	5.371	6.5720	13.38
92)	bromobenzene	3.895	4.084	4.105	3.420	3.432	3.592	3.376	3.188	3.6363	9.56
93)	2-chlorotoluene	1.708	1.921	1.890	1.627	1.629	1.705	1.535	1.426	1.6799	9.92

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Method File : TALL160207.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Mon Feb 08 10:04:44 2016
 Response Via : Initial Calibration

Calibration Files

0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D 5.0 =R238826.D 10 =R238827.D 20 =R238828.D
 50 =R238829.D 100 =R238830.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	1.942	2.029	2.081	1.726	1.765	1.828	1.677	1.523	1.8214	10.33
95)	4-chlorotoluene	6.347	6.123	5.905	5.130	5.073	5.191	4.626	4.495	5.3613	12.81
96)	4-ethyl toluene	7.997	7.650	7.983	6.871	6.864	7.103	6.519	6.010	7.1245	9.95
97)	1,3,5-trimethylbenzene	6.847	6.736	6.792	5.536	5.592	5.722	5.215	4.805	5.9056	13.30
98)	tert-butylbenzene	6.975	6.891	6.823	5.845	5.715	5.852	5.075	4.357	5.9417	15.68
99)	1,2,4-trimethylbenzene	6.035	6.316	6.476	5.554	5.517	5.608	4.945	4.229	5.5850	13.17
100)	decane	4.835	4.746	4.715	4.188	4.191	4.308	4.003	3.564	4.3188	10.01
101) C	Benzyl Chloride	5.053	5.313	5.604	5.182	5.340	5.723	5.342	4.892	5.3060	5.12
102)	1,3-dichlorobenzene	4.149	4.193	4.199	3.722	3.719	3.780	3.492	3.222	3.8096	9.29
103) C	1,4-dichlorobenzene	4.429	4.413	4.480	3.879	3.796	3.875	3.523	3.134	3.9411	12.16
104)	sec-butylbenzene	9.396	9.367	9.334	8.178	7.984	8.184	7.363	6.434	8.2799	12.83
105)	1,2,3-trimethylbenzene	6.036	5.946	6.064	5.065	5.043	5.265	4.779	4.211	5.3013	12.60
106)	p-isopropyltoluene	8.422	8.527	8.380	7.268	7.257	7.427	6.576	5.649	7.4383	13.49
107)	1,2-dichlorobenzene	4.024	4.155	4.155	3.636	3.625	3.683	3.379	3.180	3.7295	9.59
108)	n-butylbenzene	7.239	7.689	7.744	6.896	6.884	6.950	6.250	5.692	6.9178	9.97
109)	indan	6.653	6.385	6.485	5.557	5.412	5.688	5.186	4.760	5.7658	11.75
110)	indene	4.915	5.240	5.207	4.452	4.510	4.798	4.341	4.053	4.6895	9.01
111) C	1,2-dibromo-3-chloropropane	2.064	2.062	2.137	1.956	2.029	2.091	1.994	1.872	2.0257	4.13
112)	undecane	4.861	5.111	5.232	4.913	4.954	4.961	4.598	4.056	4.8358	7.55
113)	1,2,4,5-tetramethylbenzene	4.189	4.204	4.112	4.125	4.077	3.815	3.657	3.469	3.9561	6.96
114)	dodecane	5.036	5.005	5.440	5.419	5.622	5.244	4.675	3.780	5.0276	11.66
115) C	1,2,4-trichlorobenzene	3.030	3.265	3.302	3.366	3.395	3.274	2.946	2.413	3.1239	10.49
116)	naphthalene	7.390	7.816	8.316	8.247	8.212	7.961	7.455	7.026	7.8032	6.03
117)	1,2,3-trichlorobenzene	2.877	3.204	3.319	3.265	3.282	3.182	3.112	2.979	3.1525	4.92
118)	benzothiophene		4.284	4.407	3.939	3.944	4.329	4.194	4.032	4.1612	4.58
119) C	hexachlorobutadiene	2.896	2.868	2.957	2.816	2.856	2.762	2.610	2.337	2.7628	7.27
120)	2-methylnaphthalene			2.160	2.269	2.464	2.555	2.647	2.677	2.4620	8.47
121)	1-methylnaphthalene			3.486	3.434	3.459	3.323	3.328	3.319	3.3916	2.25

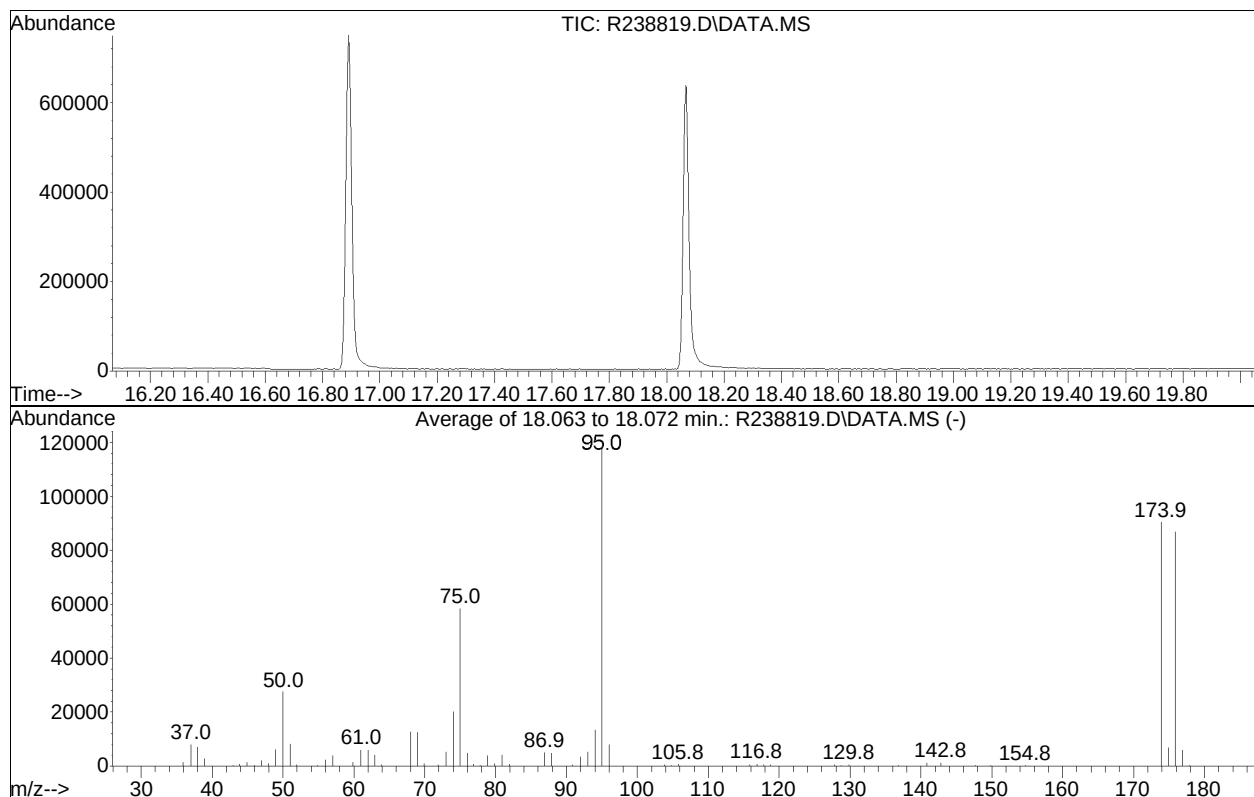
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238819.D
Acq On : 7 Feb 2016 9:26 pm
Operator : AIRPIAN02:MB
Sample : WG863495-1,3,250,250
Misc : WG863495
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Mon Feb 08 06:47:40 2016



AutoFind: Scans 1778, 1779, 1780; Background Corrected with Scan 1770

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.2	27504	PASS
75	95	30	66	49.3	58344	PASS
95	95	100	100	100.0	118403	PASS
96	95	5	9	6.7	7914	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.5	90531	PASS
175	174	4	9	7.6	6911	PASS
176	174	93	101	95.9	86805	PASS
177	176	5	9	6.9	5967	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:16:21 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:06 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	161710	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	99.62%		
43) 1,4-difluorobenzene	12.552	114	356932	10.000	ppbV	0.01
Standard Area = 355895			Recovery =	100.29%		
67) chlorobenzene-D5	16.891	54	91330	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	102.39%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.240	65	99495	9.905	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.05%		
69) toluene-D8	15.228	98	397744	9.849	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.49%		
90) bromofluorobenzene	18.067	95	196140	9.754	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.54%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.281	51	4954	0.263	ppbV	98
3) propylene	4.320	41	3506M6	0.338	ppbV	
4) propane	4.350	29	3723M4	0.365	ppbV	
5) dichlorodifluoromethane	4.419	85	4597	0.224	ppbV	99
6) chloromethane	4.645	50	2895	0.281	ppbV	97
7) Freon-114	4.793	85	6565	0.259	ppbV	94
8) methanol	4.961	31	6407M3	1.335	ppbV	
9) vinyl chloride	4.961	62	2493	0.243	ppbV	91
10) 1,3-butadiene	5.158	54	2086	0.260	ppbV	89
11) butane	5.237	43	5048	0.274	ppbV	94
12) acetaldehyde	4.882	29	12088	1.617	ppbV	93
13) bromomethane	5.550	94	2395	0.273	ppbV #	71
14) chloroethane	5.790	64	887	0.182	ppbV #	69
15) ethanol	6.086	31	12326	1.330	ppbV	87
16) dichlorofluoromethane	5.942	67	5527	0.259	ppbV #	87
17) vinyl bromide	6.277	106	2131	0.252	ppbV #	75
18) acrolein	6.517	56	1391M3	0.314	ppbV	
19) acetone	6.725	43	22192	1.220	ppbV #	98
20) acetonitrile	6.341	41	3606M3	0.328	ppbV	
21) trichlorofluoromethane	6.837	101	5884	0.242	ppbV	97
22) isopropyl alcohol	7.109	45	14245	0.716	ppbV	99
23) acrylonitrile	7.301	53	2442M3	0.306	ppbV	
24) pentane	7.309	43	5712M4	0.287	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:16:21 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:06 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.437	31	4873	0.278	ppbV	98
26) 1,1-dichloroethene	7.660	61	4284	0.235	ppbV	95
27) tertiary butyl alcohol	7.932	59	6023M1	0.257	ppbV	
28) methylene chloride	7.828	49	4297	0.290	ppbV	92
29) 3-chloropropene	7.980	41	4802M4	0.276	ppbV	
30) carbon disulfide	8.156	76	7098	0.235	ppbV #	29
31) Freon 113	8.164	101	4976	0.239	ppbV #	90
32) trans-1,2-dichloroethene	8.981	61	3910	0.221	ppbV #	77
33) 1,1-dichloroethane	9.214	63	4867	0.239	ppbV	99
34) MTBE	9.386	73	7205	0.245	ppbV #	85
35) vinyl acetate	9.455	43	5572M3	0.203	ppbV	
36) 2-butanone	9.791	43	6542M3	0.230	ppbV	
37) cis-1,2-dichloroethene	10.189	61	3873	0.246	ppbV	95
38) Ethyl Acetate	10.546	61	1526	0.426	ppbV #	1
39) chloroform	10.527	83	5477	0.253	ppbV	96
40) Tetrahydrofuran	11.100	42	5214M1	0.315	ppbV	
41) 2,2-dichloropropane	10.555	77	5074	0.250	ppbV	91
42) 1,2-dichloroethane	11.363	62	3488	0.213	ppbV #	83
44) hexane	10.433	57	5126	0.277	ppbV #	52
45) diisopropyl ether	10.517	87	2437	0.302	ppbV #	43
46) tert-butyl ethyl ether	11.109	59	9132	0.248	ppbV #	92
48) 1,1,1-trichloroethane	11.639	97	7043	0.278	ppbV	91
49) 1,1-dichloropropene	12.000	75	4027	0.246	ppbV	94
50) benzene	12.159	78	8292	0.263	ppbV	97
51) thiophene	12.308	84	5221	0.247	ppbV #	90
52) carbon tetrachloride	12.318	117	6253	0.266	ppbV	97
53) cyclohexane	12.467	56	5335	0.277	ppbV	88
54) tert-amyl methyl ether	12.892	73	7947	0.254	ppbV #	85
55) dibromomethane	13.051	93	2939	0.220	ppbV	89
56) 1,2-dichloropropane	13.083	63	3295	0.256	ppbV	97
57) bromodichloromethane	13.296	83	5909	0.237	ppbV #	83
58) 1,4-dioxane	13.465	88	1466M1	0.199	ppbV	
59) trichloroethene	13.327	130	2790	0.201	ppbV	88
60) 2,2,4-trimethylpentane	13.370	57	15070	0.246	ppbV #	93
61) methyl methacrylate	13.582	41	4423M4	0.230	ppbV	
62) heptane	13.657	43	6296M4	0.237	ppbV	
63) cis-1,3-dichloropropene	14.308	75	3778	0.207	ppbV #	81
64) 4-methyl-2-pentanone	14.434	43	8149M3	0.225	ppbV	
65) trans-1,3-dichloropropene	14.867	75	5747	0.222	ppbV #	94
66) 1,1,2-trichloroethane	15.056	97	4572	0.250	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:16:21 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:06 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.327	91	13873	0.240	ppbV	92
70) 2-methylthiophene	15.391	97	12535M4	0.262	ppbV	
71) 1,3-dichloropropane	15.355	76	5331	0.205	ppbV	92
72) 2-hexanone	15.662	43	8029M4	0.164	ppbV	
73) 3-methylthiophene	15.562	97	12074	0.247	ppbV	98
74) dibromochloromethane	15.734	129	8517	0.226	ppbV	93
75) 1,2-dibromoethane	15.969	107	6853	0.224	ppbV	96
76) butyl acetate	16.186	73	1271	0.204	ppbV	74
77) octane	16.213	85	4251	0.250	ppbV #	73
78) tetrachloroethene	16.358	166	6310	0.242	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.915	131	4151	0.239	ppbV	95
80) chlorobenzene	16.929	112	7868	0.248	ppbV	96
81) ethylbenzene	17.220	91	12450	0.239	ppbV	98
82) 2-ethylthiophene	17.258	97	9745	0.234	ppbV	92
83) m+p-xylene	17.363	91	18687	0.459	ppbV	96
84) bromoform	17.439	173	5359	0.211	ppbV	91
85) styrene	17.644	104	6904	0.217	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.725	83	7043	0.227	ppbV	99
87) o-xylene	17.725	91	9854	0.235	ppbV	97
88) 1,2,3-trichloropropane	17.825	75	5785	0.231	ppbV #	89
89) nonane	17.863	43	9234	0.236	ppbV #	99
91) isopropylbenzene	18.158	105	14386	0.255	ppbV	92
92) bromobenzene	18.244	77	7114	0.227	ppbV	85
93) 2-chlorotoluene	18.525	126	3119M3	0.210	ppbV	
94) n-propylbenzene	18.539	120	3547	0.220	ppbV	95
95) 4-chlorotoluene	18.572	91	11593	0.250	ppbV	96
96) 4-ethyl toluene	18.644	105	14607M6	0.233	ppbV	
97) 1,3,5-trimethylbenzene	18.691	105	12507	0.245	ppbV #	96
98) tert-butylbenzene	19.001	119	12740	0.244	ppbV	96
99) 1,2,4-trimethylbenzene	19.001	105	11023	0.219	ppbV	90
100) decane	19.044	57	8832	0.231	ppbV #	94
101) Benzyl Chloride	19.116	91	9229	0.189	ppbV	99
102) 1,3-dichlorobenzene	19.135	146	7579	0.223	ppbV	94
103) 1,4-dichlorobenzene	19.177	146	8090	0.233	ppbV	98
104) sec-butylbenzene	19.197	105	17163	0.235	ppbV	97
105) 1,2,3-trimethylbenzene	19.325	105	11025	0.239	ppbV	94
106) p-isopropyltoluene	19.311	119	15384	0.232	ppbV	97
107) 1,2-dichlorobenzene	19.444	146	7350	0.222	ppbV	91
108) n-butylbenzene	19.630	91	13222	0.210	ppbV	98
109) indan	19.482	117	12153	0.246	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.2
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:16:21 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:06 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

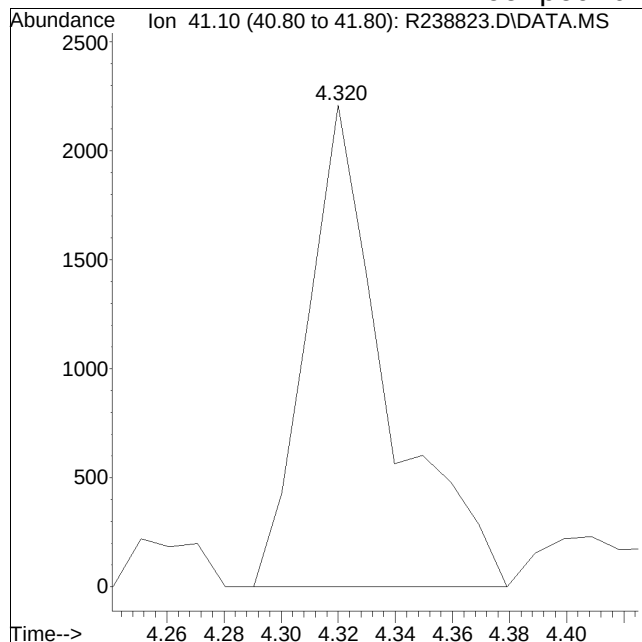
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.558	115	8977	0.218	ppbV	96
111)	1,2-dibromo-3-chloropr...	19.792	75	3770	0.203	ppbV	86
112)	undecane	20.011	57	8879	0.196	ppbV #	90
113)	1,2,4,5-tetramethylben...	20.239	119	7652	0.206	ppbV	99
114)	dodecane	20.902	57	9198	0.179	ppbV	93
115)	1,2,4-trichlorobenzene	20.870	180	5535	0.179	ppbV	97
116)	naphthalene	20.998	128	13499	0.180	ppbV #	90
117)	1,2,3-trichlorobenzene	21.245	180	5255	0.175	ppbV	95
118)	benzothiophene	21.052	134	6186	0.172	ppbV #	83
119)	hexachlorobutadiene	21.288	225	5289	0.203	ppbV	95
120)	2-methylnaphthalene	22.167	142	1236	0.055	ppbV #	79
121)	1-methylnaphthalene	22.349	142	4835M3	0.153	ppbV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration/Negative Proof Report

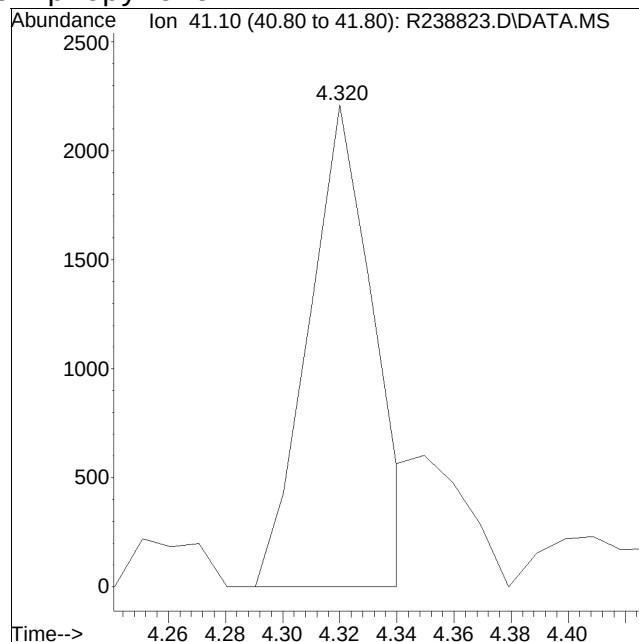
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 4316

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

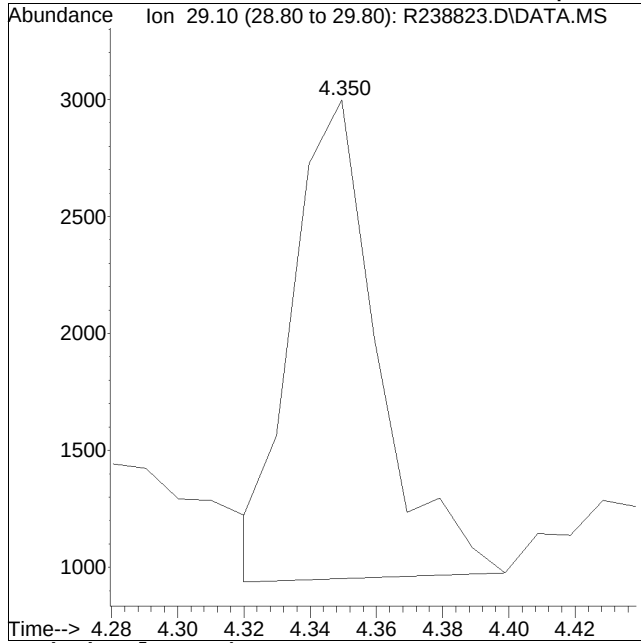


Manual Peak Response = 3506 M6

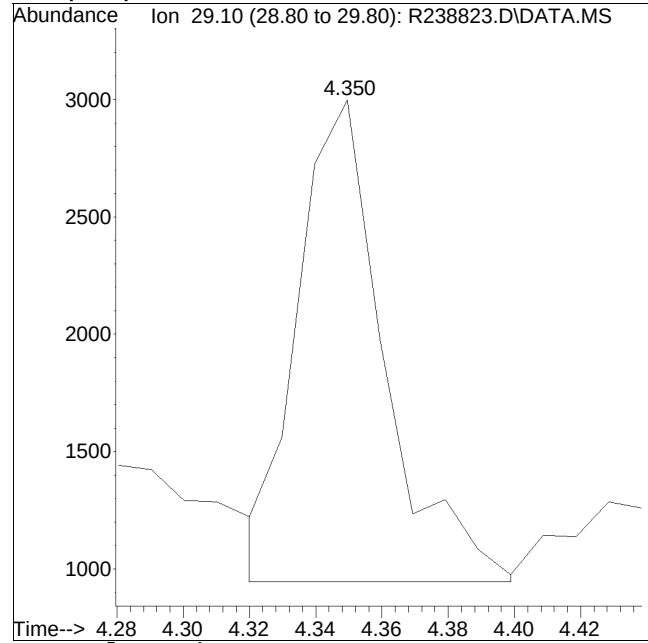
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 3668



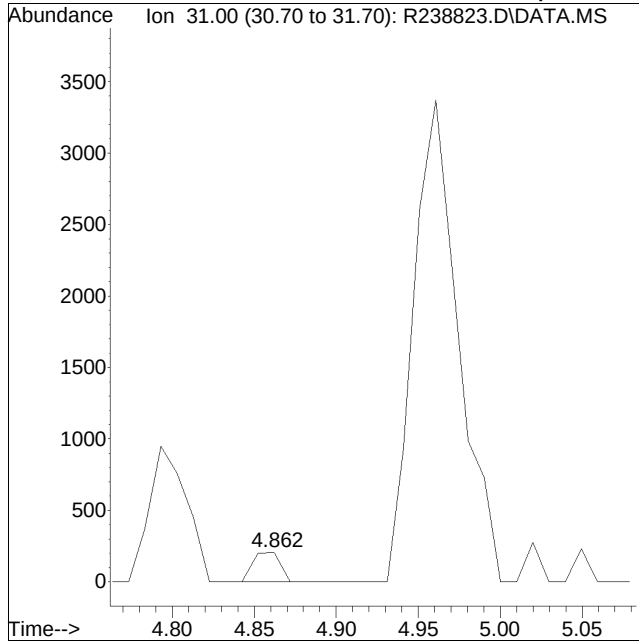
Manual Peak Response = 3723 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

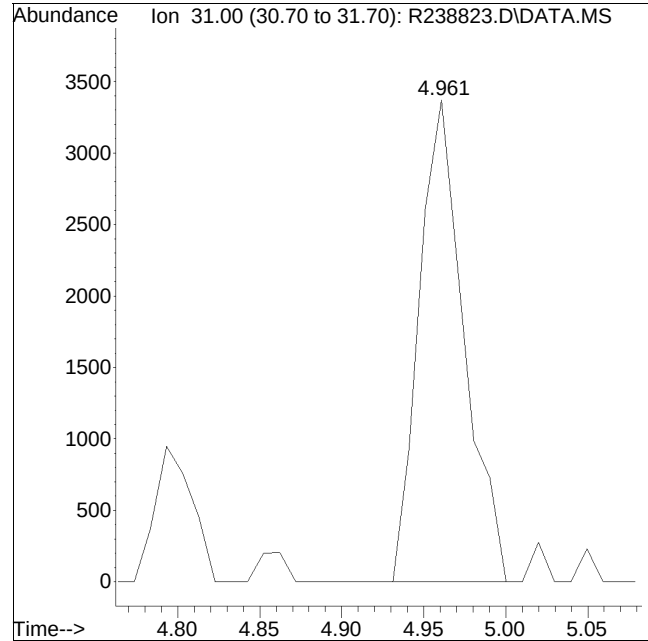
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #8: methanol



Original Peak Response = 241

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

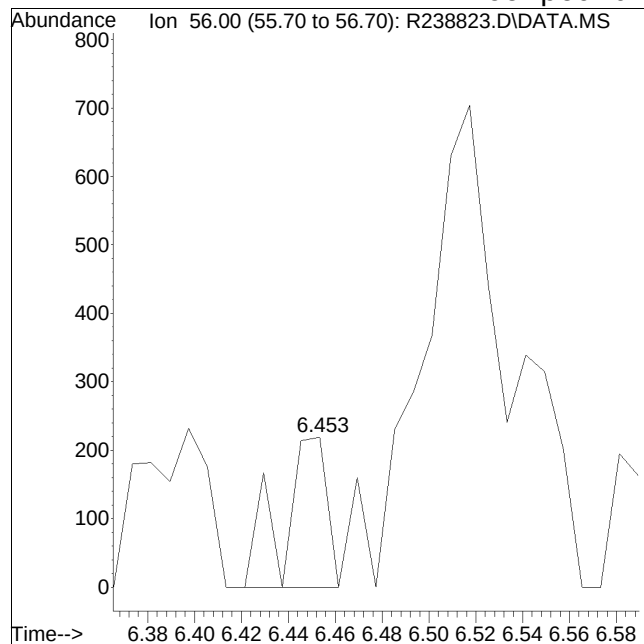


Manual Peak Response = 6407 M3

Manual Integration/Negative Proof Report

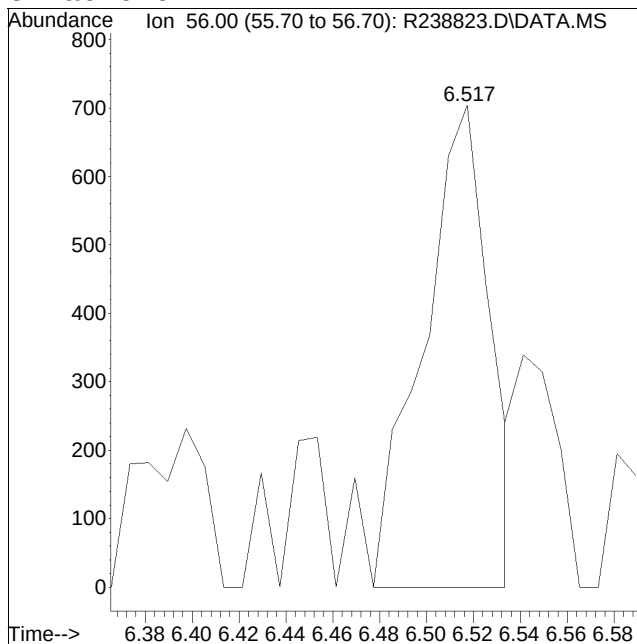
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238823.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #18: acrolein



Original Peak Response = 288

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

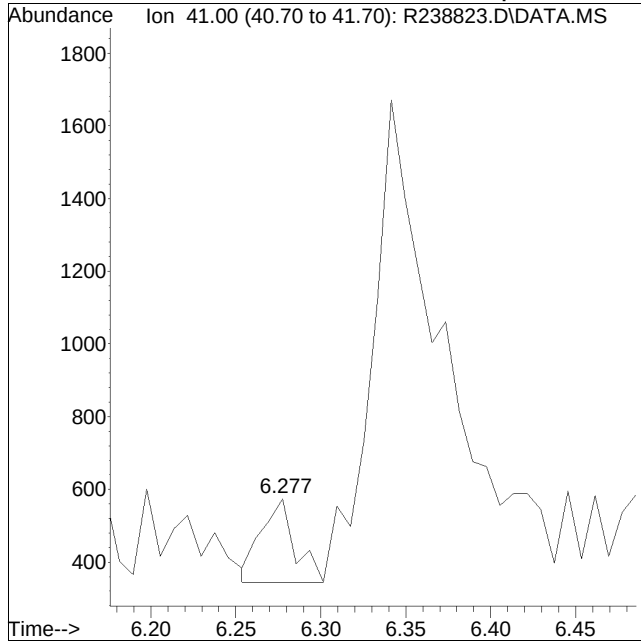


Manual Peak Response = 1391 M3

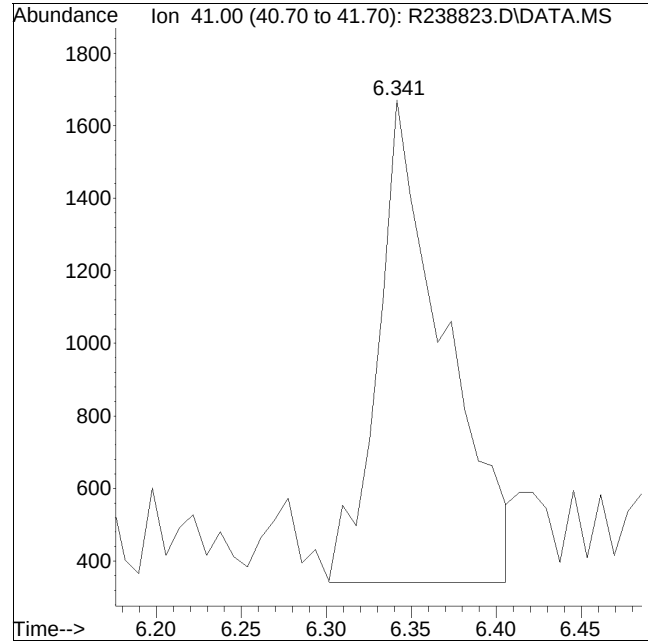
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #20: acetonitrile



Original Peak Response = 314



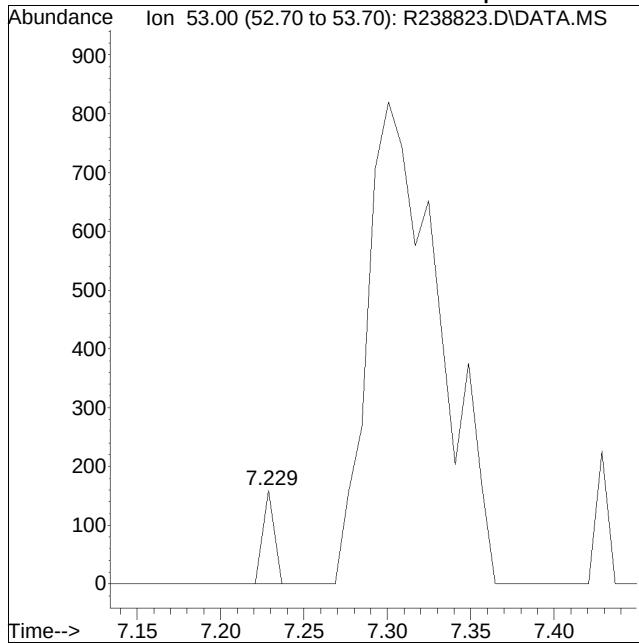
Manual Peak Response = 3606 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

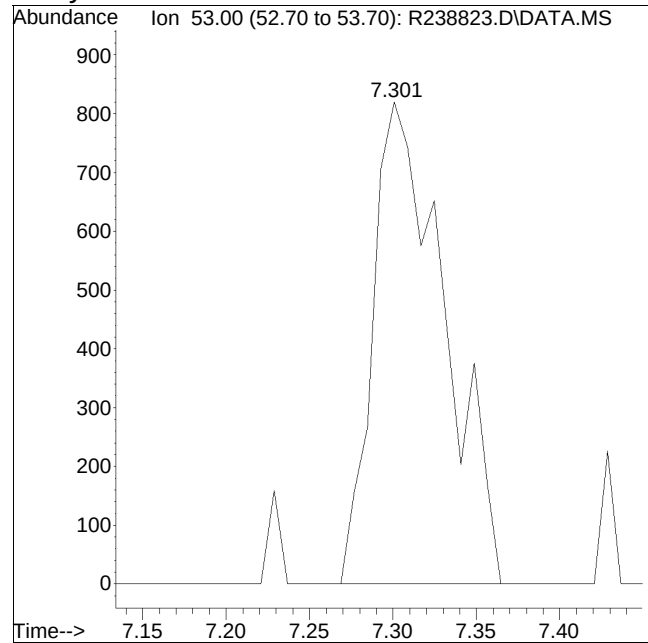
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #23: acrylonitrile



Original Peak Response = 76

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

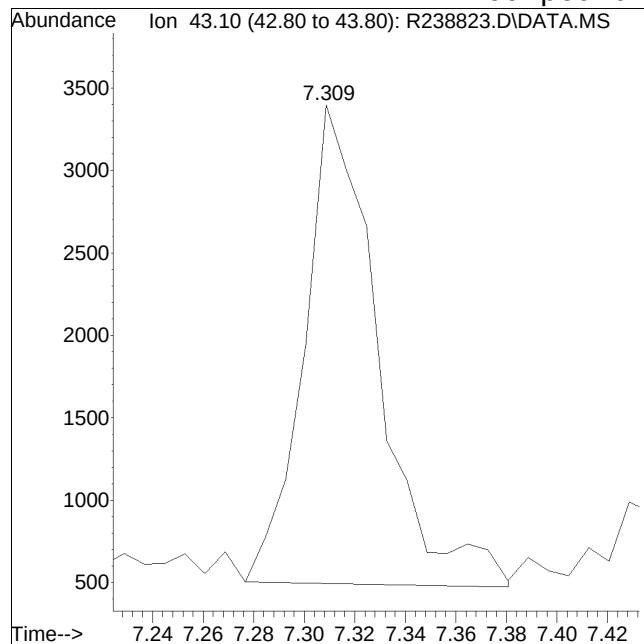


Manual Peak Response = 2442 M3

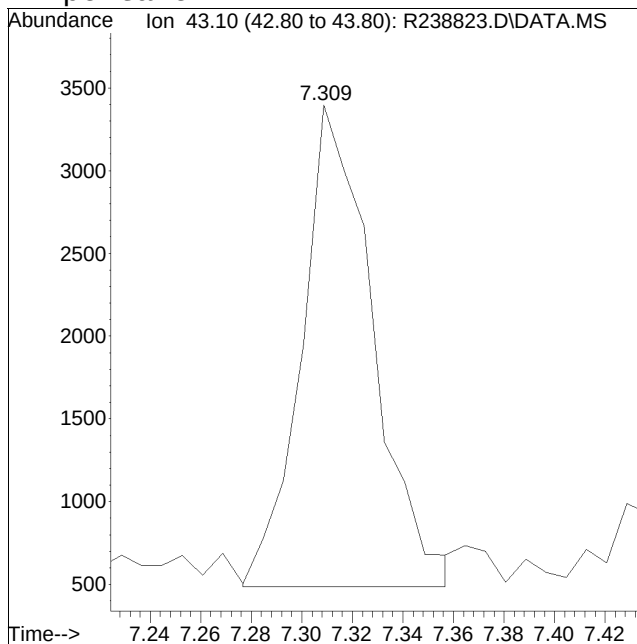
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #24: pentane



Original Peak Response = 5921



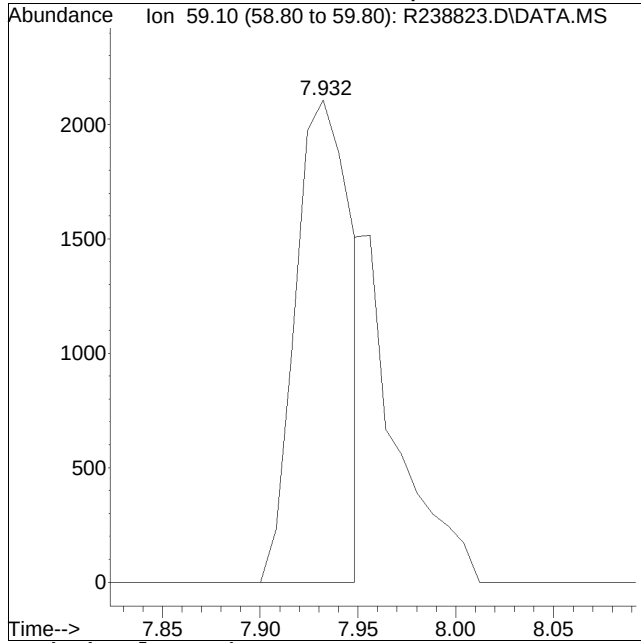
Manual Peak Response = 5712 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

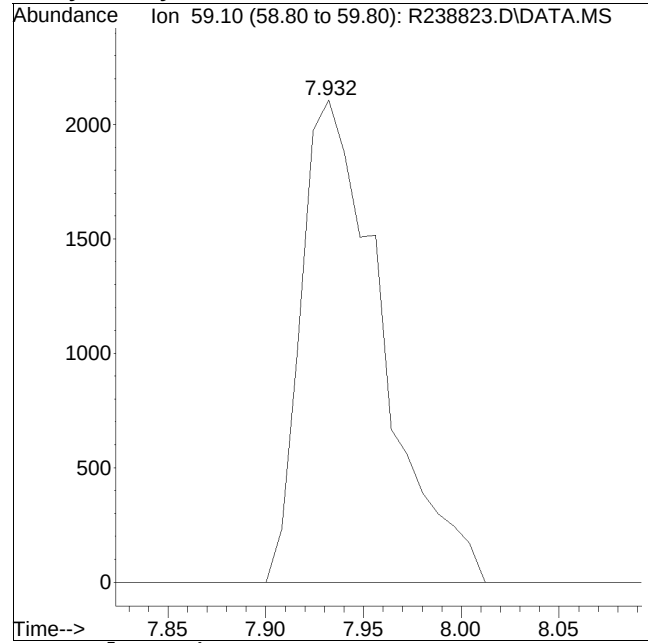
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 4179

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

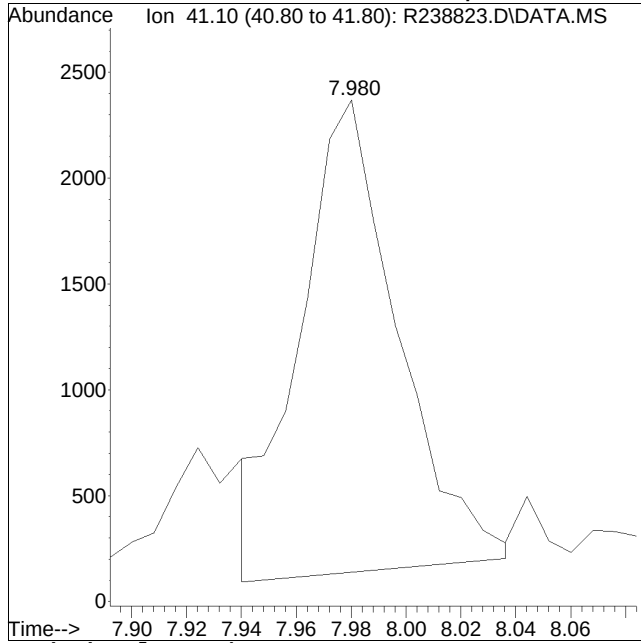


Manual Peak Response = 6023 M1

Manual Integration/Negative Proof Report

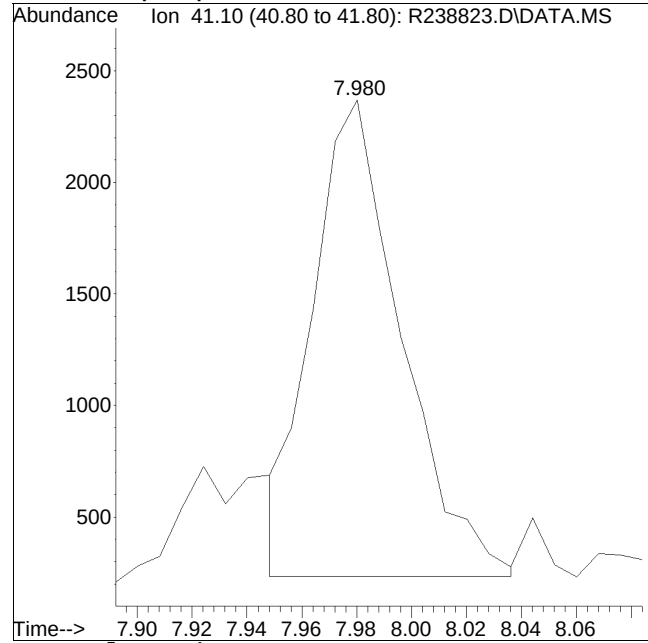
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #29: 3-chloropropene



Original Peak Response = 5518

M4 = Poor automated baseline construction.

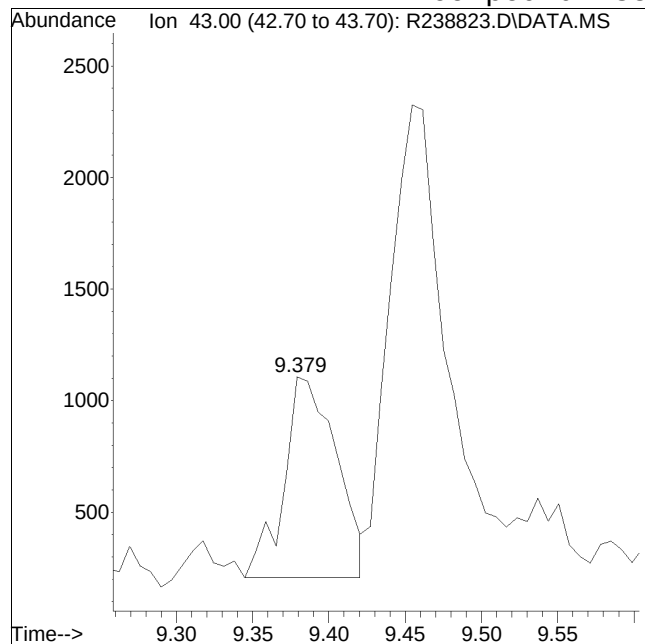


Manual Peak Response = 4802 M4

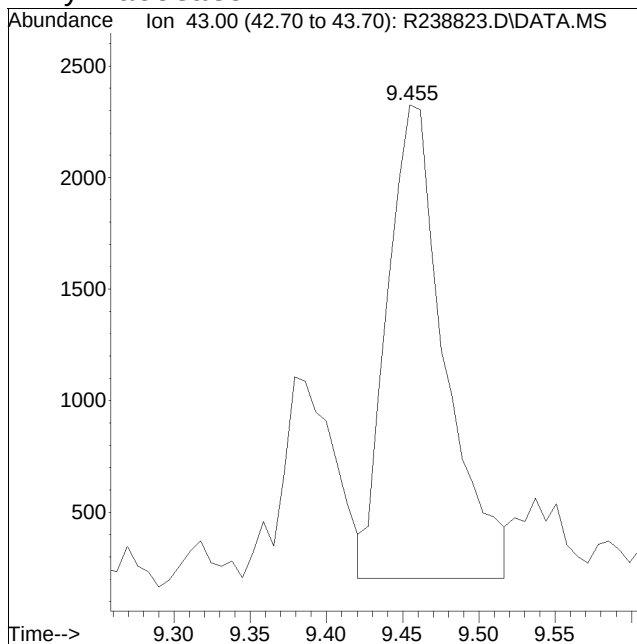
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238823.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #35: vinyl acetate



Original Peak Response = 2164



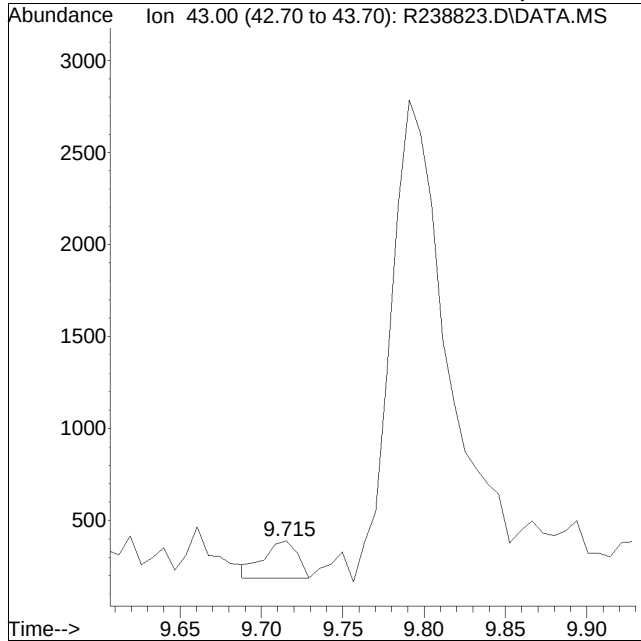
Manual Peak Response = 5572 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

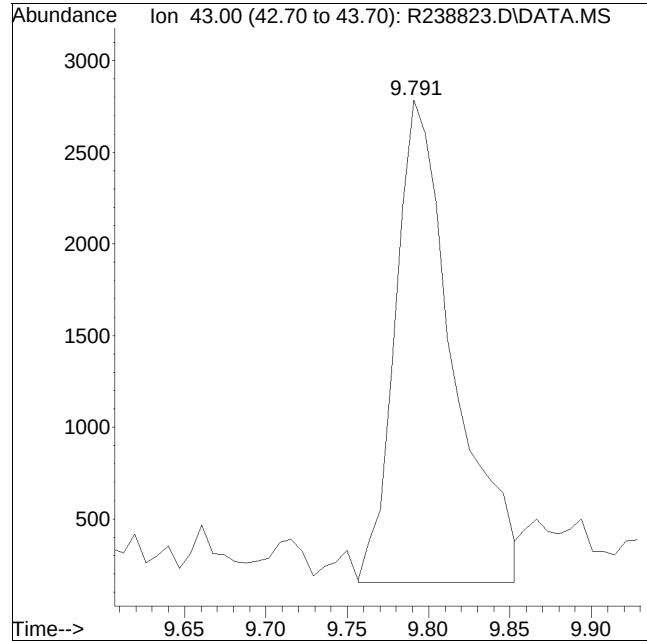
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #36: 2-butanone



Original Peak Response = 287



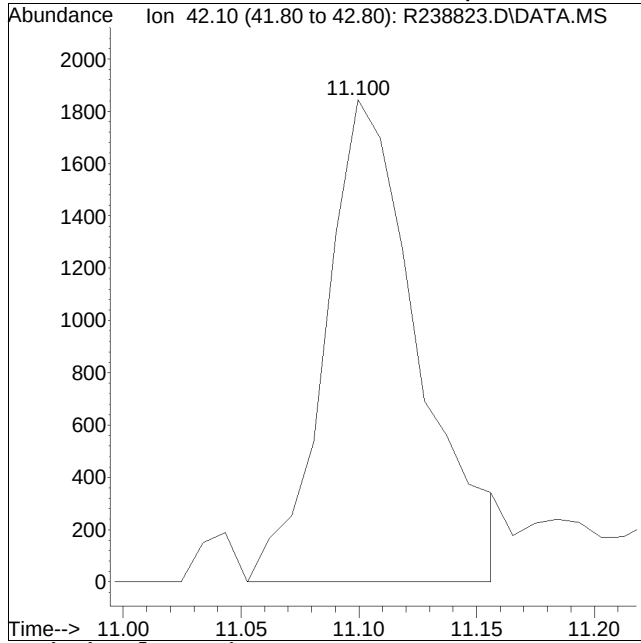
Manual Peak Response = 6542 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

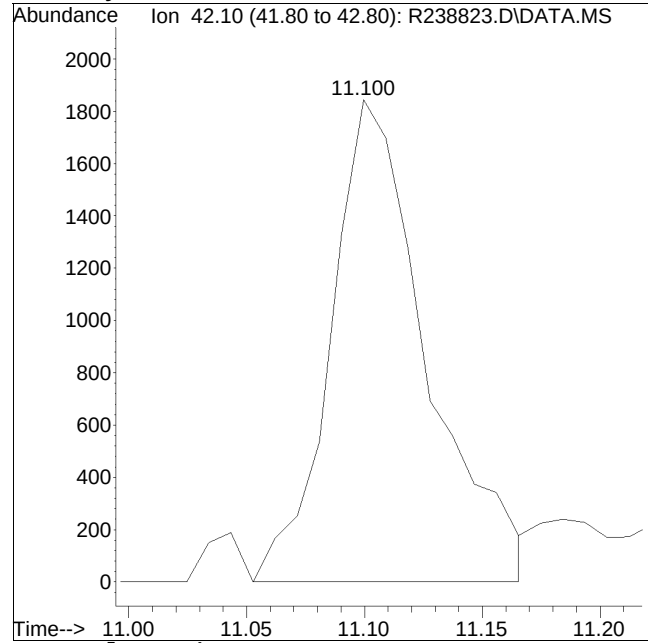
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 5114

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

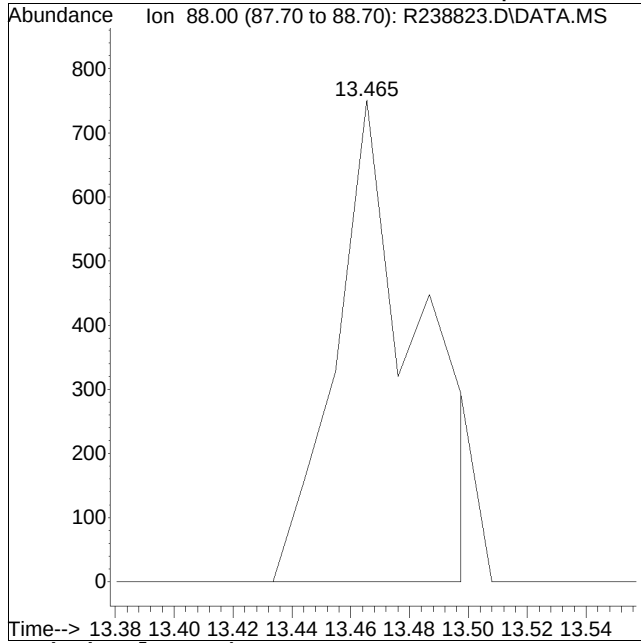


Manual Peak Response = 5214 M1

Manual Integration/Negative Proof Report

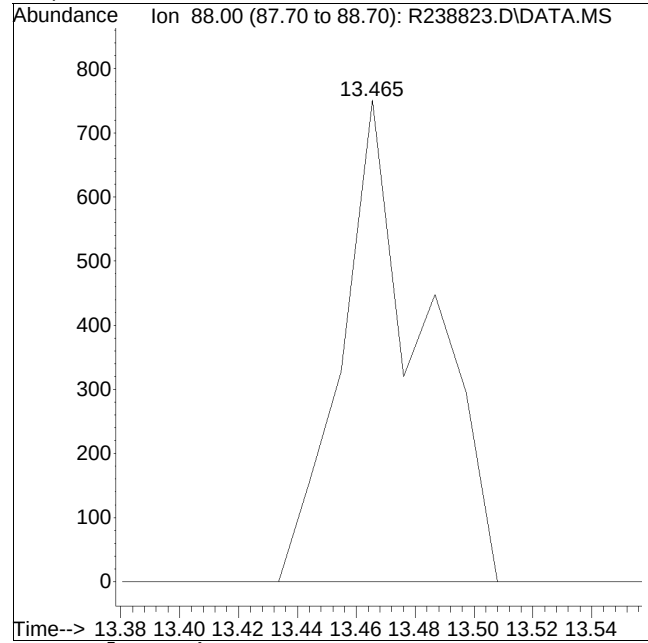
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #58: 1,4-dioxane



Original Peak Response = 1466

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

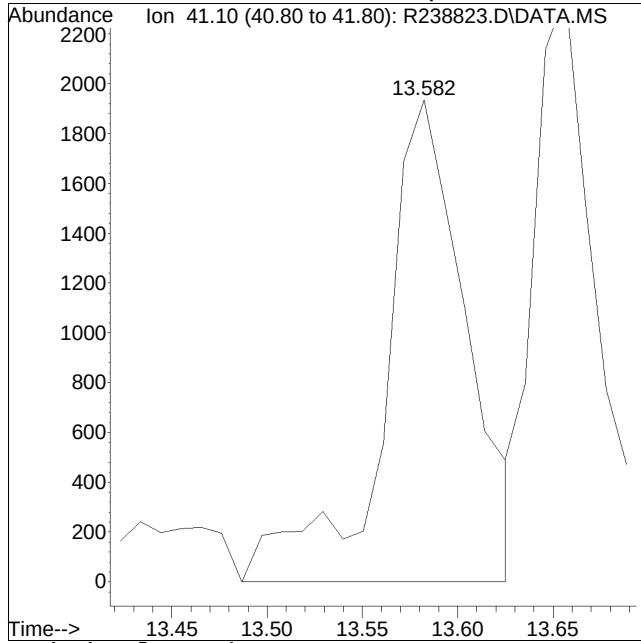


Manual Peak Response = 1466 M1

Manual Integration/Negative Proof Report

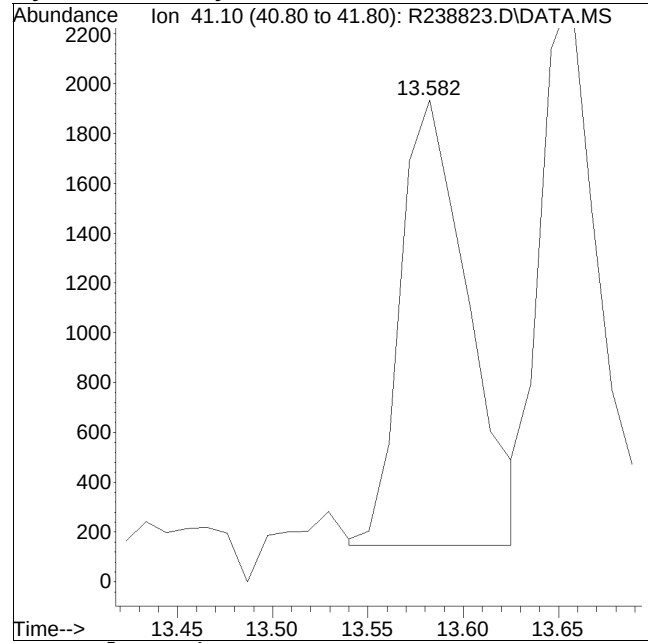
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #61: methyl methacrylate



Original Peak Response = 5839

M4 = Poor automated baseline construction.

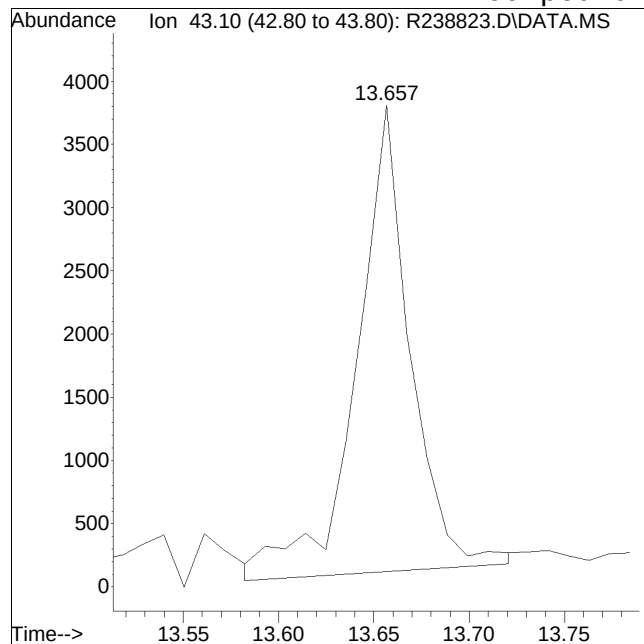


Manual Peak Response = 4423 M4

Manual Integration/Negative Proof Report

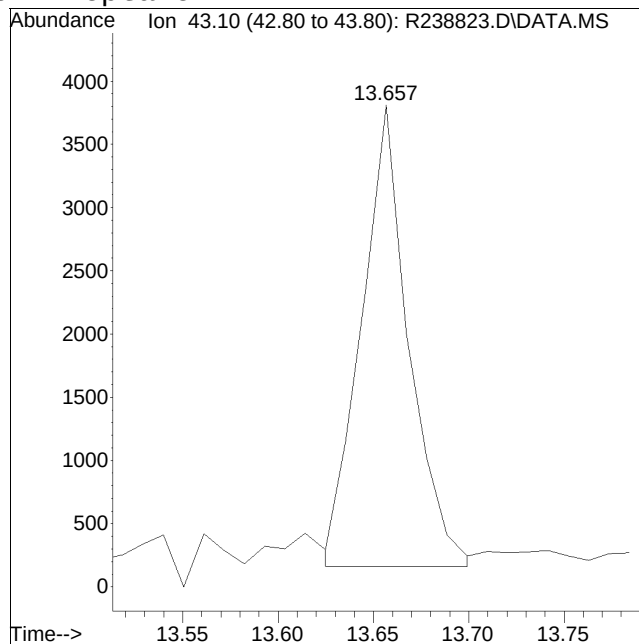
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #62: heptane



Original Peak Response = 7256

M4 = Poor automated baseline construction.

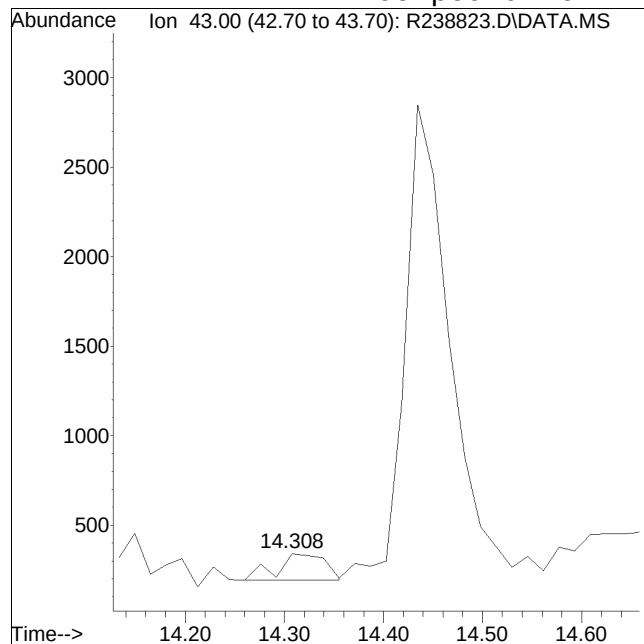


Manual Peak Response = 6296 M4

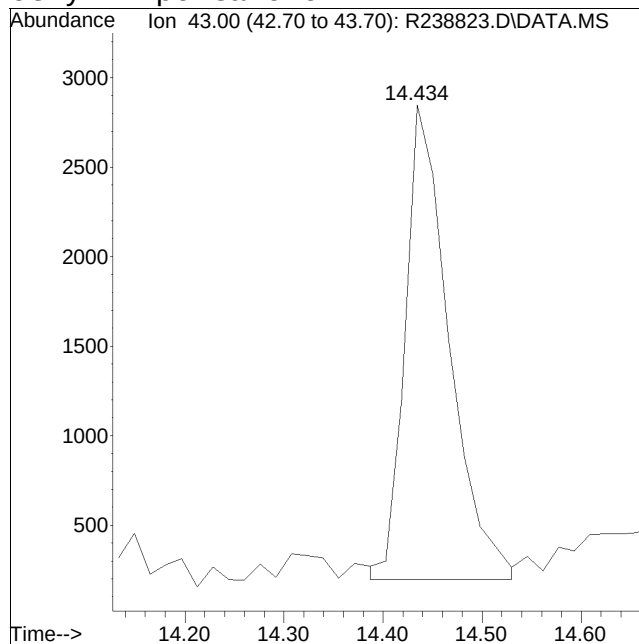
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238823.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 500



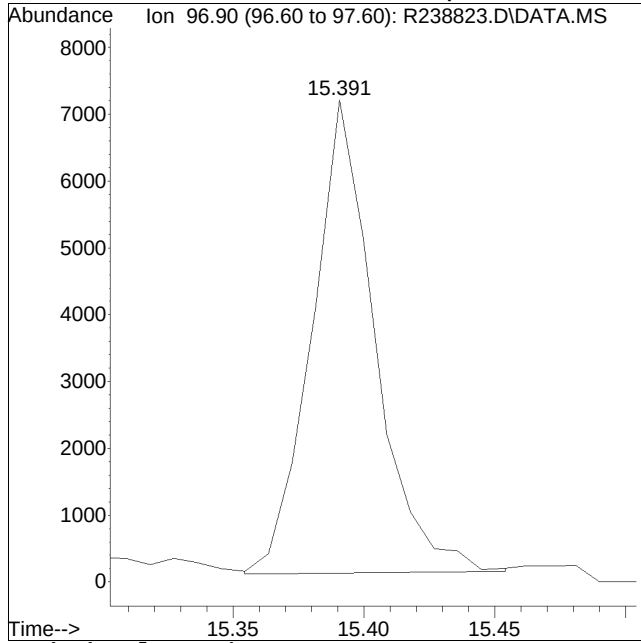
Manual Peak Response = 8149 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

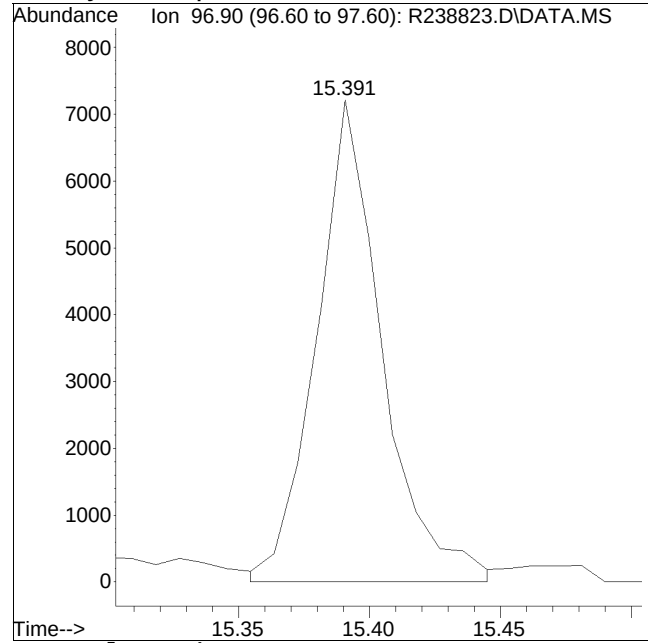
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #70: 2-methylthiophene



Original Peak Response = 11816

M4 = Poor automated baseline construction.

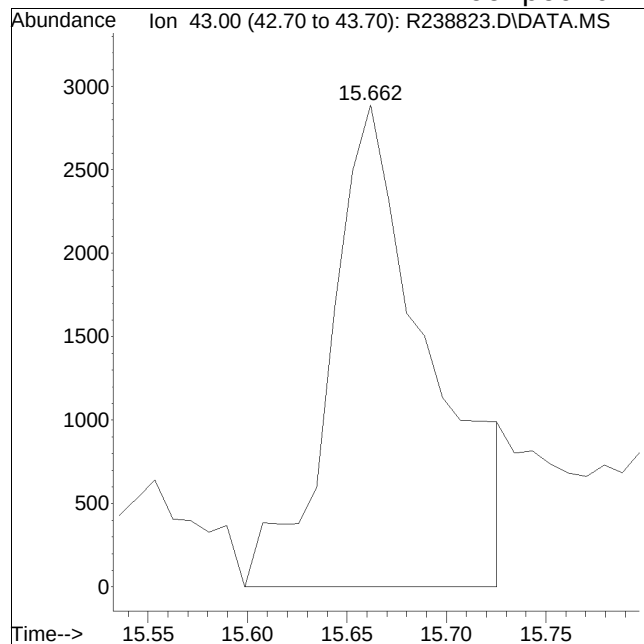


Manual Peak Response = 12535 M4

Manual Integration/Negative Proof Report

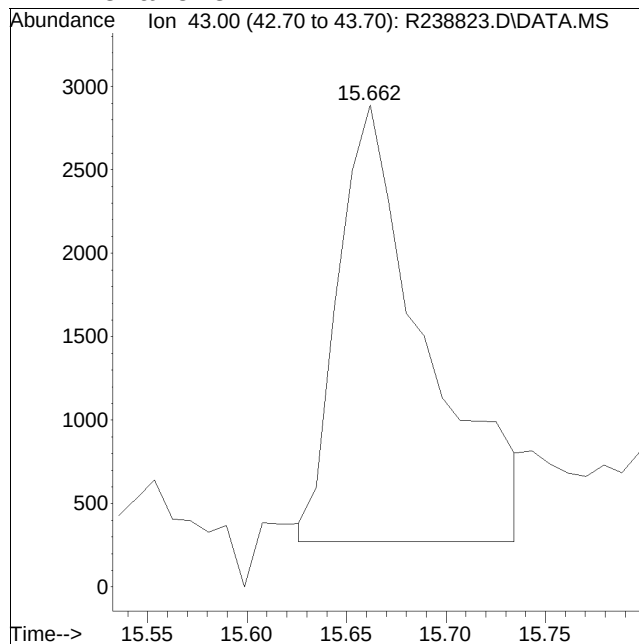
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #72: 2-hexanone



Original Peak Response = 9968

M4 = Poor automated baseline construction.

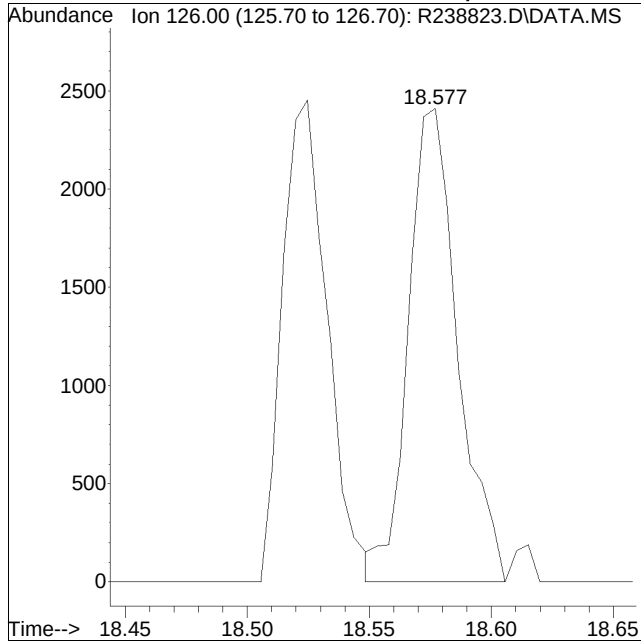


Manual Peak Response = 8029 M4

Manual Integration/Negative Proof Report

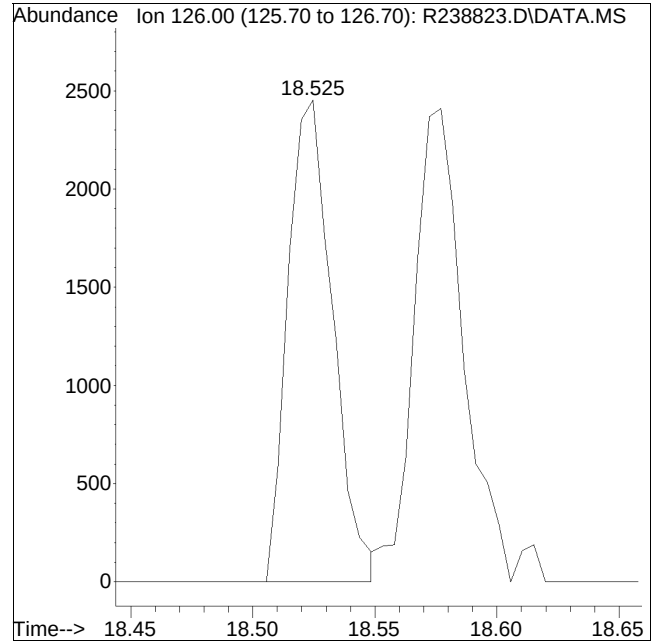
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #93: 2-chlorotoluene



Original Peak Response = 3384

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

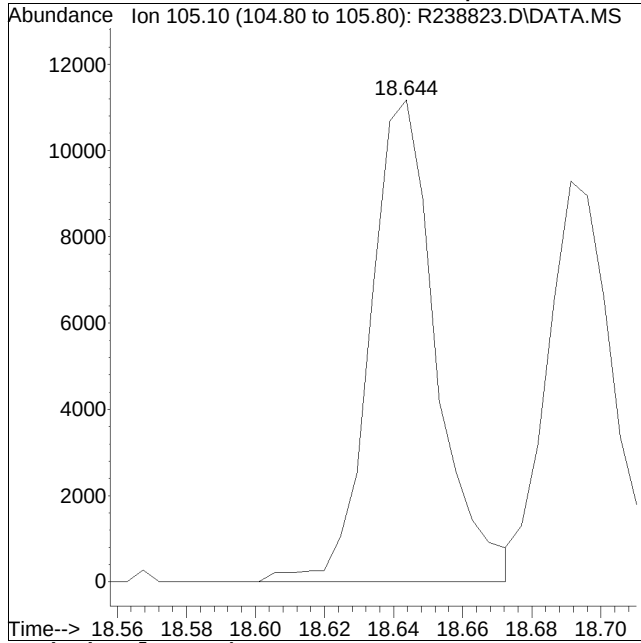


Manual Peak Response = 3119 M3

Manual Integration/Negative Proof Report

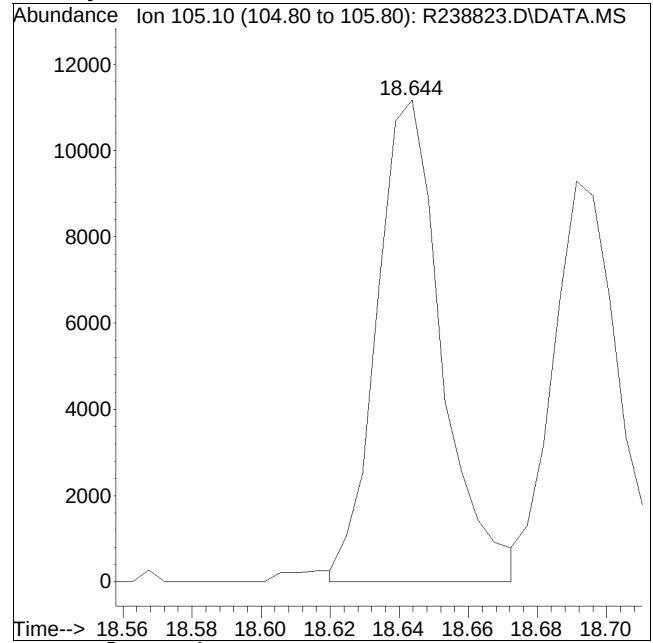
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238823.D Operator : AIRPIAN02:MB
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 14879

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

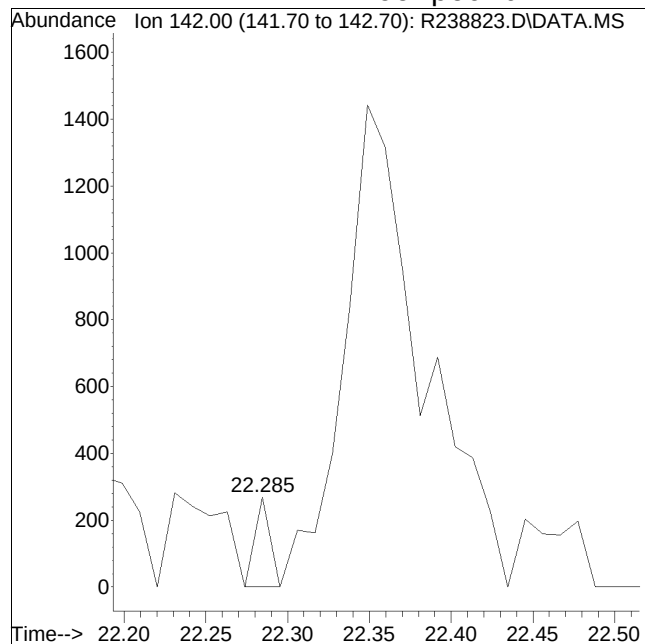


Manual Peak Response = 14607 M6

Manual Integration/Negative Proof Report

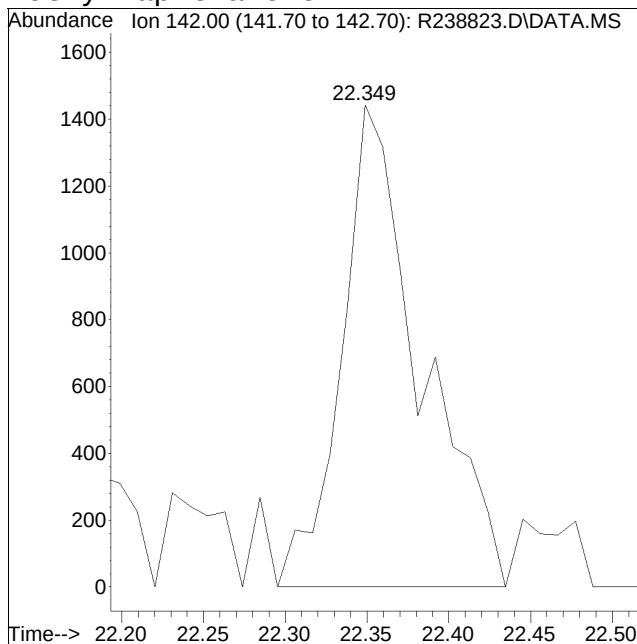
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238823.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.2 Quant Date : 2/8/2016 6:10 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 173

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 4835 M3

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:21:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	160940	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	99.14%		
43) 1,4-difluorobenzene	12.552	114	356187	10.000	ppbV	0.01
Standard Area = 355895			Recovery =	100.08%		
67) chlorobenzene-D5	16.891	54	88603	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	99.33%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.240	65	101015	10.077	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.77%		
69) toluene-D8	15.228	98	397008	10.134	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.34%		
90) bromofluorobenzene	18.067	95	194849	9.988	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.88%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.280	51	11886	0.634	ppbV	96
3) propylene	4.320	41	7178M6	0.695	ppbV	
4) propane	4.349	29	6647M4	0.654	ppbV	
5) dichlorodifluoromethane	4.418	85	12067	0.592	ppbV	97
6) chloromethane	4.645	50	6276	0.612	ppbV	93
7) Freon-114	4.793	85	16545	0.655	ppbV	95
8) methanol	4.951	31	16443	3.444	ppbV #	1
9) vinyl chloride	4.961	62	6317	0.620	ppbV #	83
10) 1,3-butadiene	5.168	54	4731	0.592	ppbV	92
11) butane	5.237	43	10950M4	0.598	ppbV	
12) acetaldehyde	4.872	29	23960	3.220	ppbV #	87
13) bromomethane	5.542	94	5240	0.601	ppbV	92
14) chloroethane	5.798	64	3002	0.618	ppbV	96
15) ethanol	6.070	31	29202	3.167	ppbV	96
16) dichlorofluoromethane	5.950	67	13096	0.616	ppbV #	95
17) vinyl bromide	6.277	106	5249	0.623	ppbV	88
18) acrolein	6.501	56	3195M3	0.724	ppbV	
19) acetone	6.701	43	54485	3.010	ppbV #	95
20) acetonitrile	6.333	41	6721M3	0.613	ppbV	
21) trichlorofluoromethane	6.837	101	14665	0.607	ppbV	96
22) isopropyl alcohol	7.085	45	30245	1.527	ppbV #	96
23) acrylonitrile	7.301	53	5000	0.629	ppbV #	74
24) pentane	7.317	43	12580M4	0.635	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:21:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.420	31	11185	0.642	ppbV	98
26) 1,1-dichloroethene	7.660	61	10869	0.599	ppbV	98
27) tertiary butyl alcohol	7.900	59	14938M1	0.640	ppbV	
28) methylene chloride	7.836	49	9167	0.621	ppbV	89
29) 3-chloropropene	7.980	41	11133	0.644	ppbV	95
30) carbon disulfide	8.156	76	17783	0.591	ppbV #	80
31) Freon 113	8.164	101	12011	0.579	ppbV	98
32) trans-1,2-dichloroethene	8.974	61	10574	0.600	ppbV #	87
33) 1,1-dichloroethane	9.214	63	12203	0.601	ppbV	100
34) MTBE	9.365	73	17554	0.600	ppbV	98
35) vinyl acetate	9.441	43	13060M4	0.478	ppbV	
36) 2-butanone	9.763	43	16435	0.580	ppbV	96
37) cis-1,2-dichloroethene	10.189	61	9540	0.608	ppbV	98
38) Ethyl Acetate	10.527	61	1730M6	0.485	ppbV	
39) chloroform	10.527	83	12951	0.601	ppbV	93
40) Tetrahydrofuran	11.071	42	10875M6	0.661	ppbV	
41) 2,2-dichloropropane	10.555	77	11969	0.593	ppbV	90
42) 1,2-dichloroethane	11.362	62	9480	0.582	ppbV #	89
44) hexane	10.433	57	10989	0.596	ppbV #	42
45) diisopropyl ether	10.480	87	4826M6	0.600	ppbV	
46) tert-butyl ethyl ether	11.090	59	22829	0.622	ppbV	94
48) 1,1,1-trichloroethane	11.638	97	15725	0.622	ppbV	97
49) 1,1-dichloropropene	11.989	75	10072	0.616	ppbV	90
50) benzene	12.159	78	19717	0.627	ppbV	96
51) thiophene	12.308	84	12104	0.573	ppbV	98
52) carbon tetrachloride	12.318	117	13618	0.582	ppbV	92
53) cyclohexane	12.456	56	12149	0.631	ppbV	94
54) tert-amyl methyl ether	12.871	73	18348	0.587	ppbV	94
55) dibromomethane	13.041	93	7378	0.553	ppbV	97
56) 1,2-dichloropropane	13.072	63	8091	0.629	ppbV	91
57) bromodichloromethane	13.285	83	15022M6	0.603	ppbV	
58) 1,4-dioxane	13.434	88	4077M1	0.553	ppbV	
59) trichloroethene	13.338	130	7772	0.561	ppbV	95
60) 2,2,4-trimethylpentane	13.370	57	34672M4	0.566	ppbV	
61) methyl methacrylate	13.572	41	11526	0.600	ppbV #	92
62) heptane	13.657	43	16364M4	0.617	ppbV	
63) cis-1,3-dichloropropene	14.307	75	9492M6	0.521	ppbV	
64) 4-methyl-2-pentanone	14.403	43	19961M1	0.553	ppbV	
65) trans-1,3-dichloropropene	14.866	75	14732	0.570	ppbV	92
66) 1,1,2-trichloroethane	15.047	97	11238	0.616	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:21:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.327	91	33155	0.591	ppbV	97
70) 2-methylthiophene	15.391	97	29216	0.630	ppbV	97
71) 1,3-dichloropropane	15.345	76	15155	0.601	ppbV	89
72) 2-hexanone	15.626	43	22146	0.465	ppbV	90
73) 3-methylthiophene	15.562	97	30073	0.634	ppbV	99
74) dibromochloromethane	15.734	129	21635	0.591	ppbV	96
75) 1,2-dibromoethane	15.960	107	16973	0.571	ppbV	88
76) butyl acetate	16.177	73	3397	0.562	ppbV	80
77) octane	16.213	85	9652	0.585	ppbV	95
78) tetrachloroethene	16.358	166	14609	0.578	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.910	131	9914	0.588	ppbV	98
80) chlorobenzene	16.929	112	17965	0.583	ppbV	95
81) ethylbenzene	17.220	91	29594	0.586	ppbV	98
82) 2-ethylthiophene	17.253	97	23802	0.590	ppbV	97
83) m+p-xylene	17.363	91	46654	1.182	ppbV	99
84) bromoform	17.439	173	13391	0.543	ppbV	98
85) styrene	17.639	104	18010	0.585	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.720	83	17362	0.577	ppbV	99
87) o-xylene	17.720	91	24455	0.601	ppbV	99
88) 1,2,3-trichloropropane	17.820	75	13801	0.569	ppbV	95
89) nonane	17.853	43	23426	0.616	ppbV	90
91) isopropylbenzene	18.158	105	33265	0.608	ppbV	99
92) bromobenzene	18.244	77	18091	0.595	ppbV	96
93) 2-chlorotoluene	18.520	126	8509	0.590	ppbV	99
94) n-propylbenzene	18.534	120	8988	0.575	ppbV	92
95) 4-chlorotoluene	18.572	91	27124	0.603	ppbV	99
96) 4-ethyl toluene	18.639	105	33889M6	0.557	ppbV	
97) 1,3,5-trimethylbenzene	18.691	105	29843	0.602	ppbV	99
98) tert-butylbenzene	18.996	119	30528	0.603	ppbV	99
99) 1,2,4-trimethylbenzene	18.996	105	27983	0.572	ppbV	98
100) decane	19.039	57	21024	0.566	ppbV #	95
101) Benzyl Chloride	19.116	91	23538	0.497	ppbV	98
102) 1,3-dichlorobenzene	19.130	146	18574	0.564	ppbV	99
103) 1,4-dichlorobenzene	19.177	146	19552M4	0.581	ppbV	
104) sec-butylbenzene	19.196	105	41496	0.587	ppbV	99
105) 1,2,3-trimethylbenzene	19.315	105	26343	0.590	ppbV	96
106) p-isopropyltoluene	19.306	119	37775	0.587	ppbV	99
107) 1,2-dichlorobenzene	19.439	146	18406	0.573	ppbV	98
108) n-butylbenzene	19.630	91	34063	0.558	ppbV	95
109) indan	19.477	117	28287	0.590	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD0.5
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:21:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

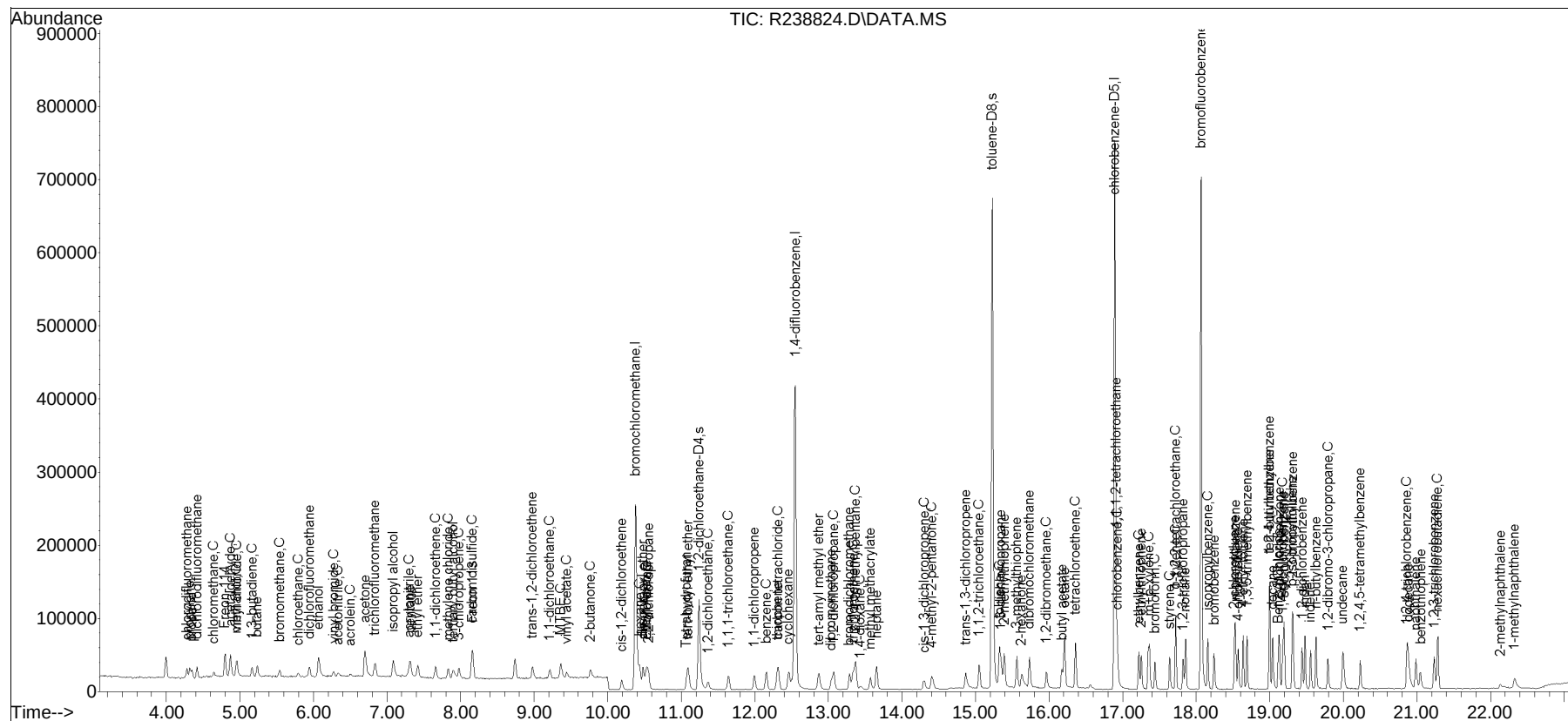
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.554	115	23215	0.581	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.792	75	9136	0.508	ppbV	95
112) undecane	19.992	57	22641	0.516	ppbV	96
113) 1,2,4,5-tetramethylben...	20.230	119	18625	0.516	ppbV	99
114) dodecane	20.880	57	22173	0.445	ppbV	100
115) 1,2,4-trichlorobenzene	20.859	180	14463	0.481	ppbV	99
116) naphthalene	20.987	128	34627	0.476	ppbV	98
117) 1,2,3-trichlorobenzene	21.234	180	14194	0.488	ppbV	96
118) benzothiophene	21.052	134	18979	0.543	ppbV #	96
119) hexachlorobutadiene	21.277	225	12707	0.502	ppbV	95
120) 2-methylnaphthalene	22.134	142	8427M1	0.386	ppbV	
121) 1-methylnaphthalene	22.327	142	14495M4	0.473	ppbV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238824.D
Acq On    : 8 Feb 2016 12:13 am
Operator  : AIRPIAN02:MB
Sample    : IT015-SIMSTD0.5
Misc      : WG863495
ALS Vial  : 6 Sample Multiplier: 1
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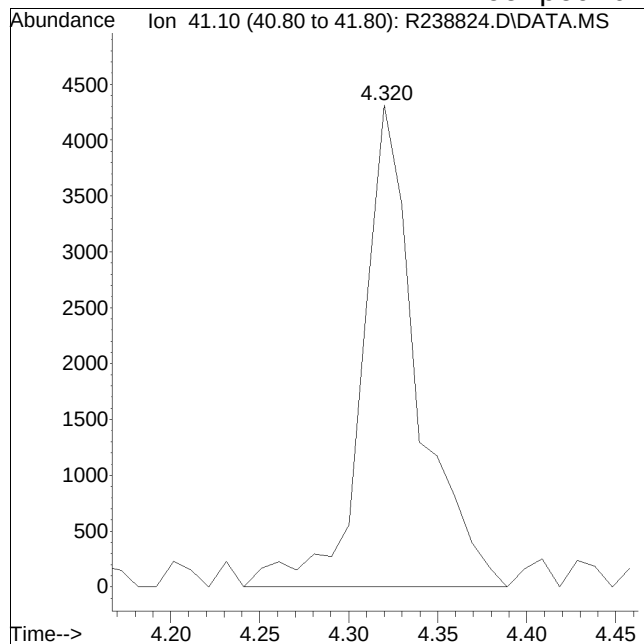
Quant Time: Feb 08 06:21:12 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

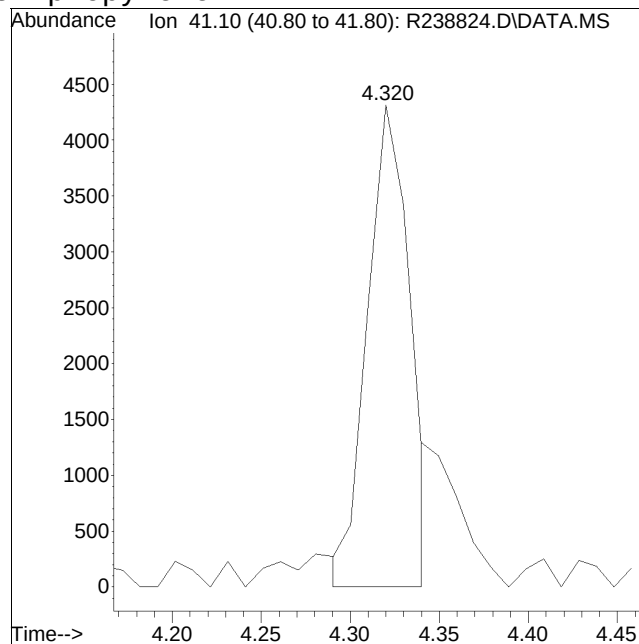
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 9352

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

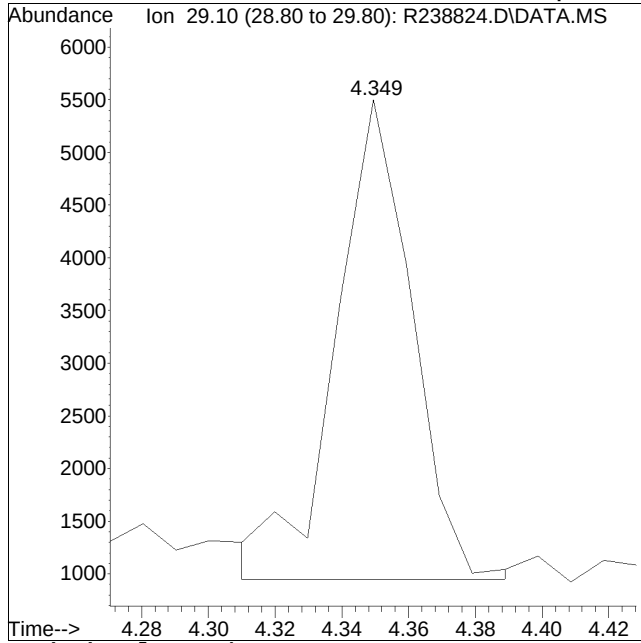


Manual Peak Response = 7178 M6

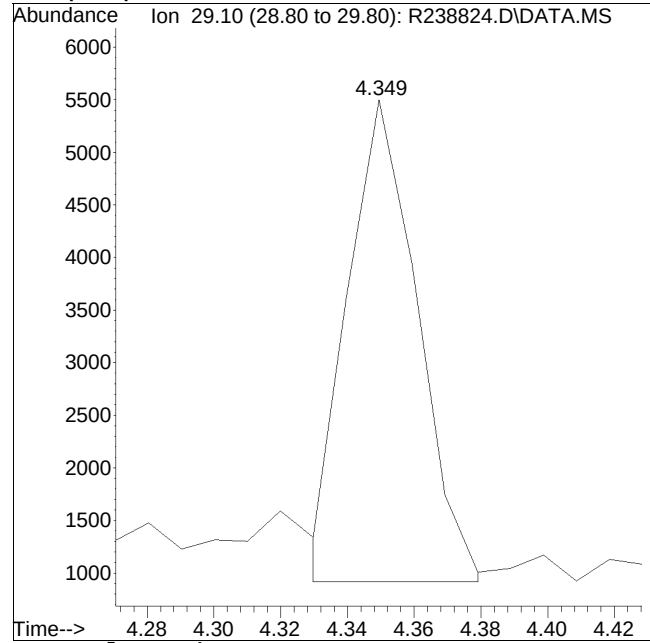
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 7209



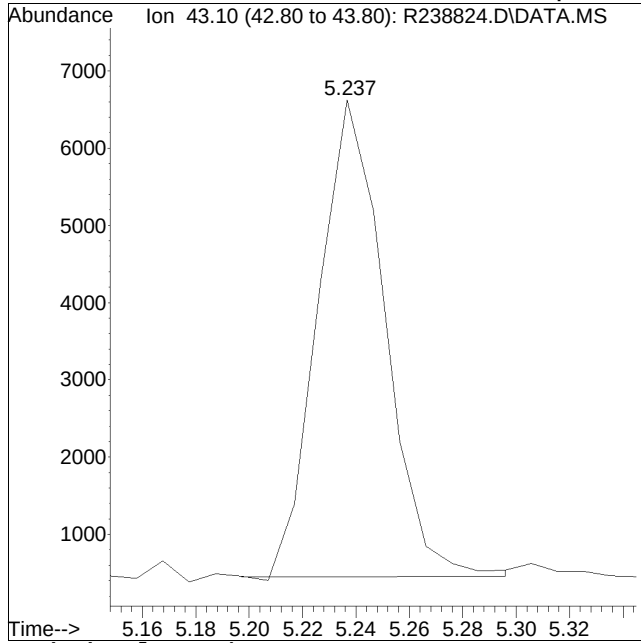
Manual Peak Response = 6647 M4

M4 = Poor automated baseline construction.

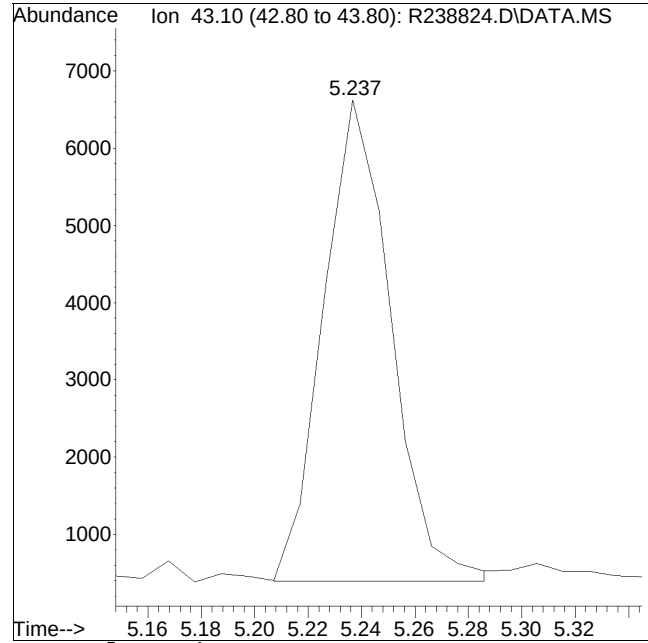
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #11: butane



Original Peak Response = 10711



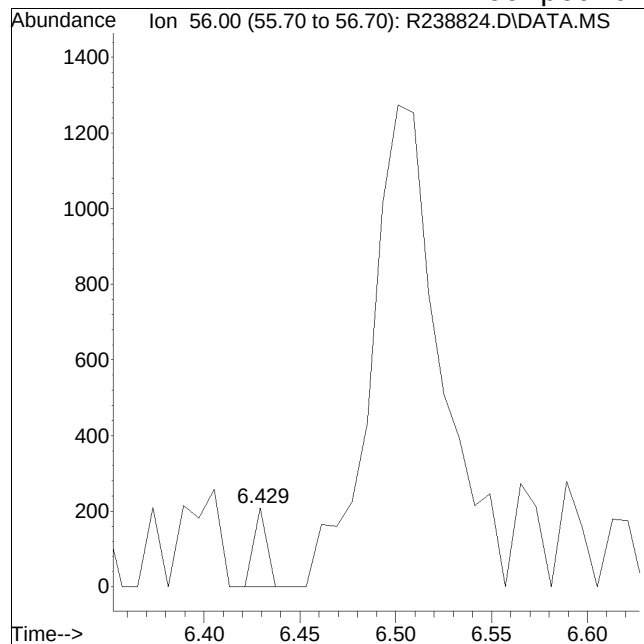
Manual Peak Response = 10950 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

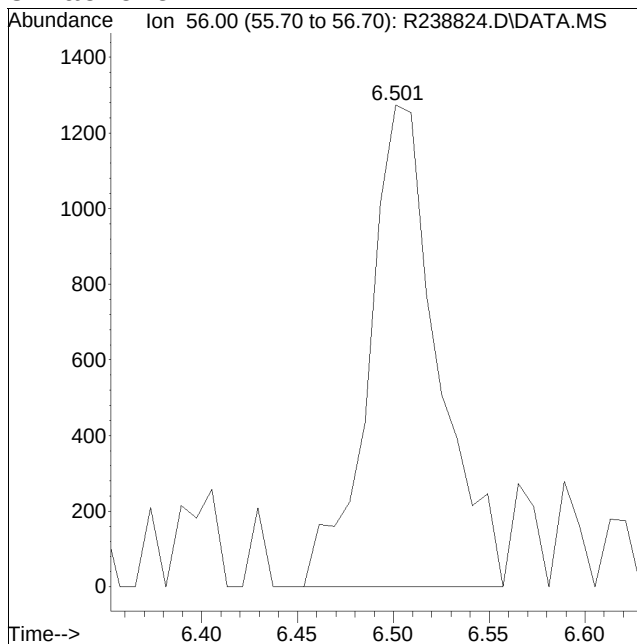
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238824.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #18: acrolein



Original Peak Response = 100

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

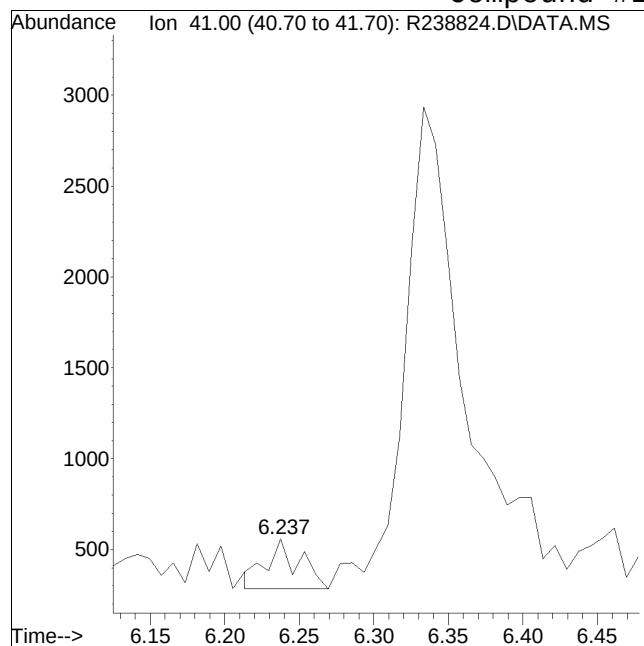


Manual Peak Response = 3195 M3

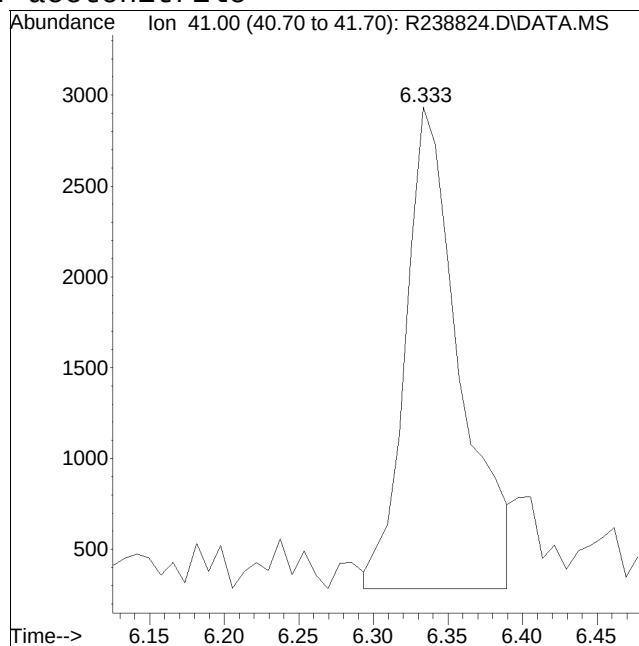
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238824.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #20: acetonitrile



Original Peak Response = 420



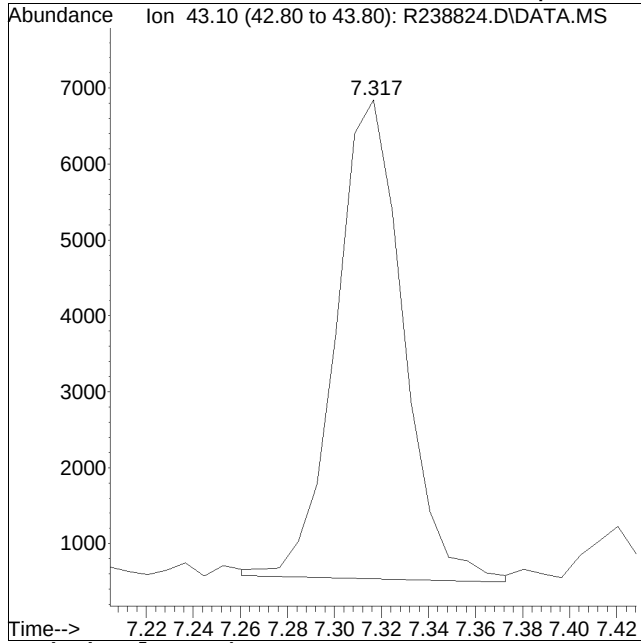
Manual Peak Response = 6721 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

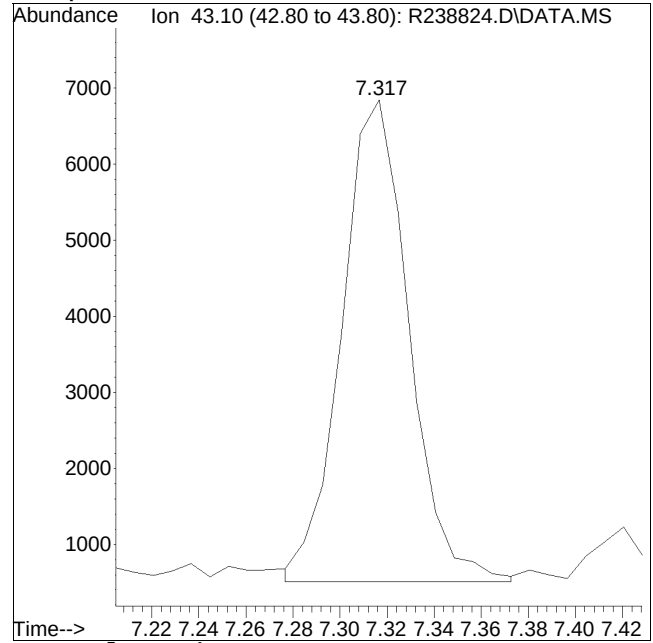
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #24: pentane



Original Peak Response = 12529



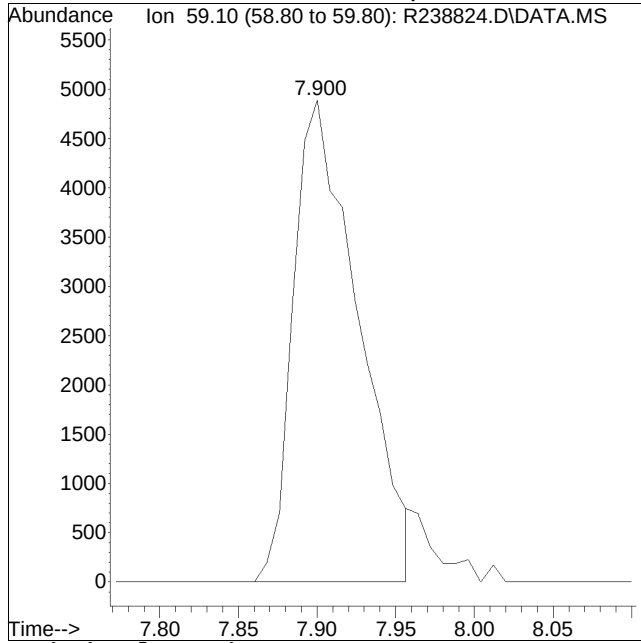
Manual Peak Response = 12580 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

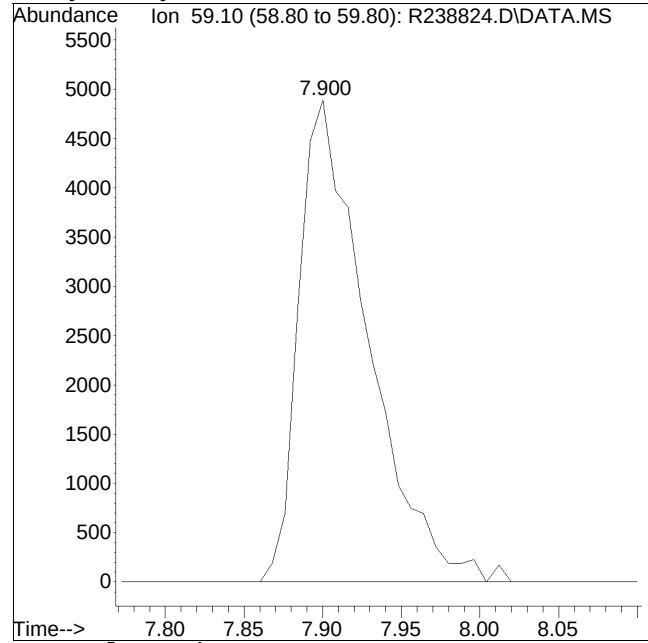
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Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 14062

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

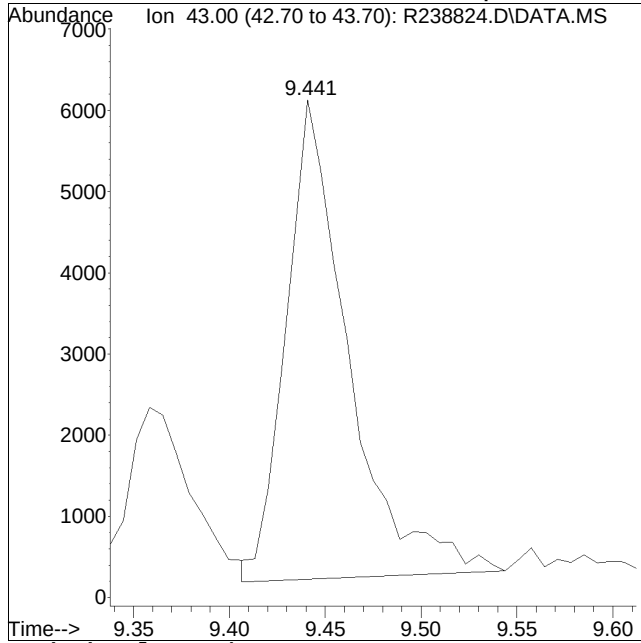


Manual Peak Response = 14938 M1

Manual Integration/Negative Proof Report

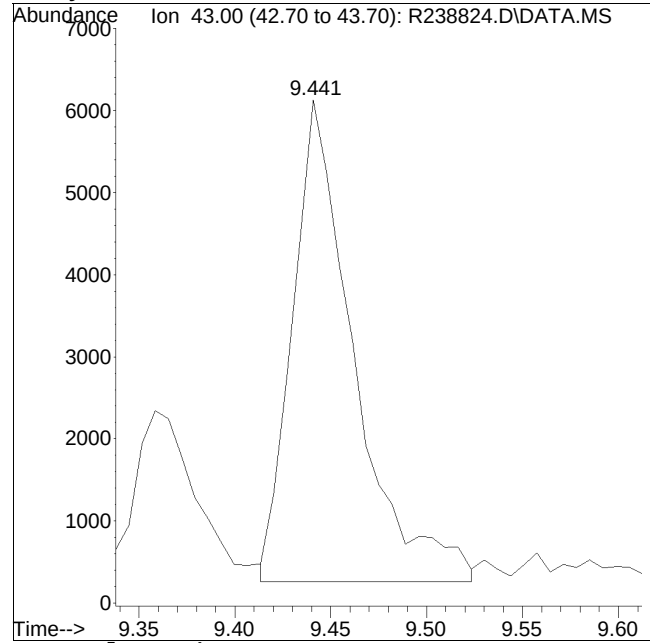
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Data File : R238824.D
Date Inj'd : 2/8/2016 12:13 am
Sample : IT015-SIMSTD0.5
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #35: vinyl acetate



Original Peak Response = 13327

M4 = Poor automated baseline construction.

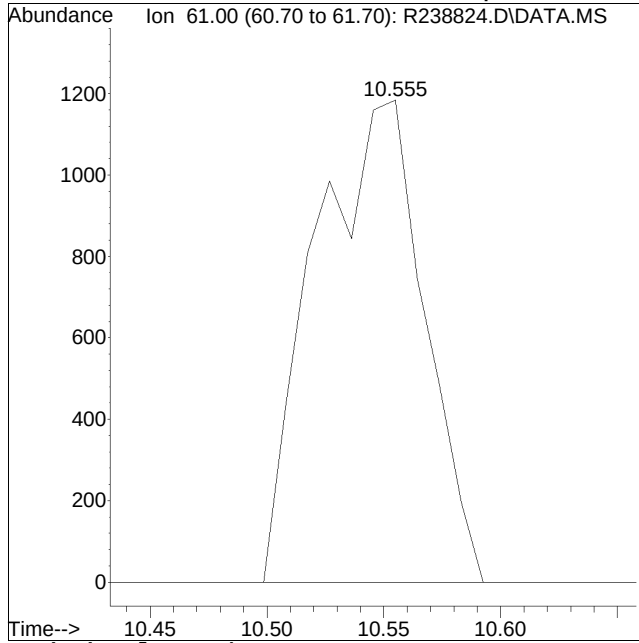


Manual Peak Response = 13060 M4

Manual Integration/Negative Proof Report

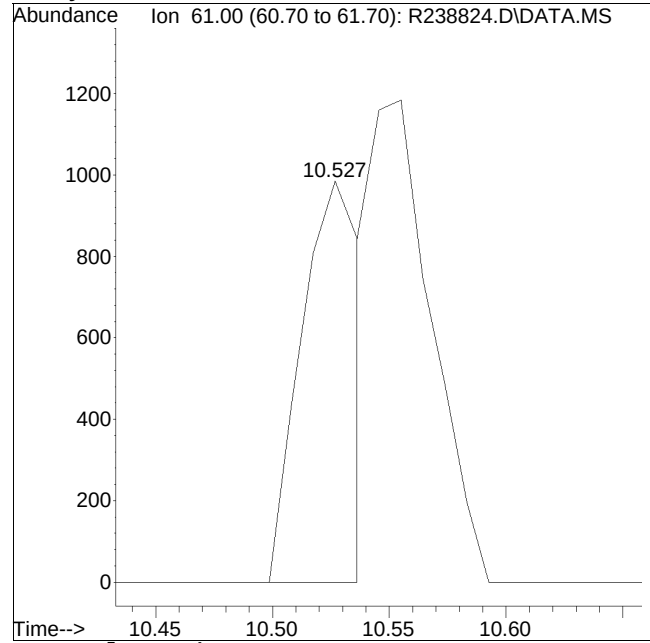
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #38: Ethyl Acetate



Original Peak Response = 3855

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

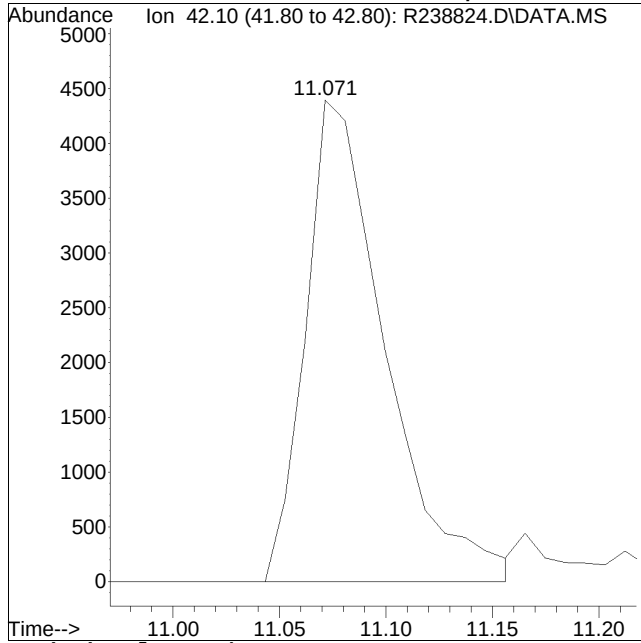


Manual Peak Response = 1730 M6

Manual Integration/Negative Proof Report

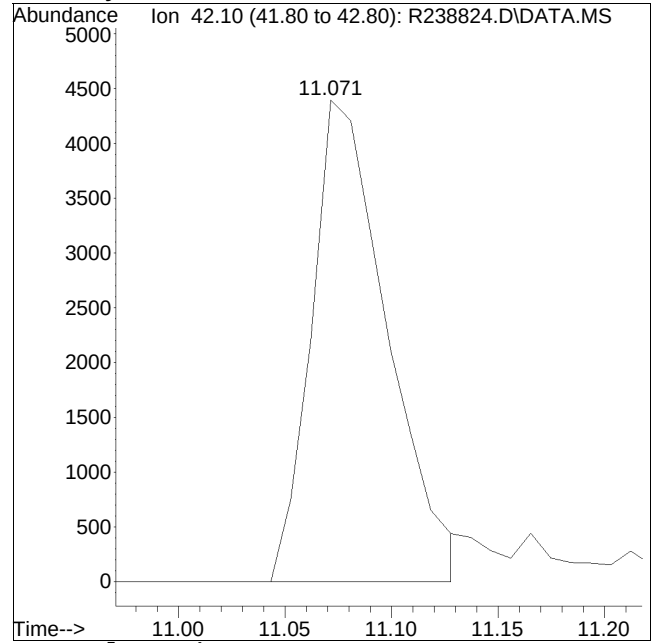
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 11388

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



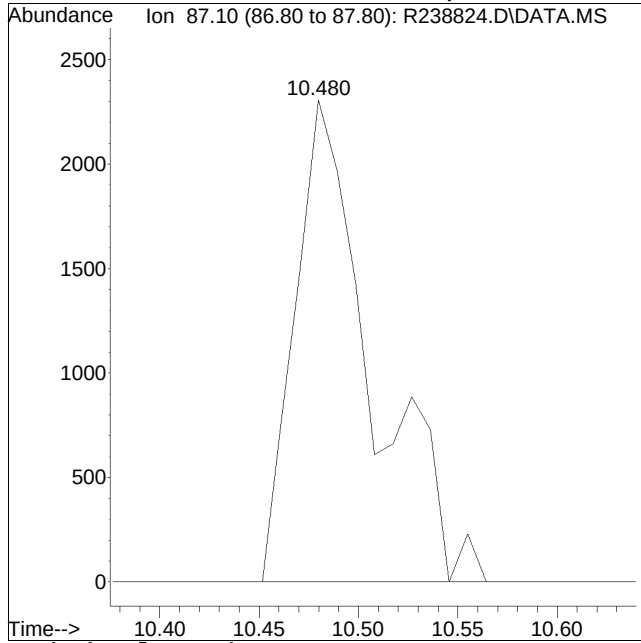
Manual Peak Response = 10875 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

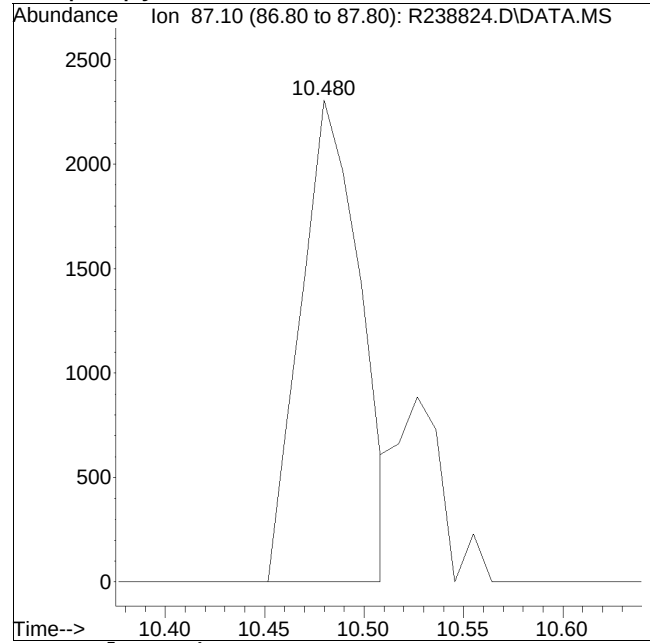
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #45: diisopropyl ether



Original Peak Response = 6239

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

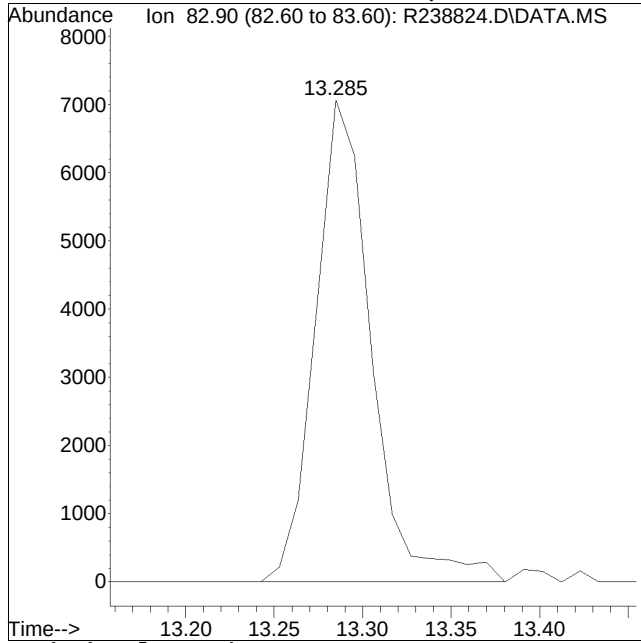


Manual Peak Response = 4826 M6

Manual Integration/Negative Proof Report

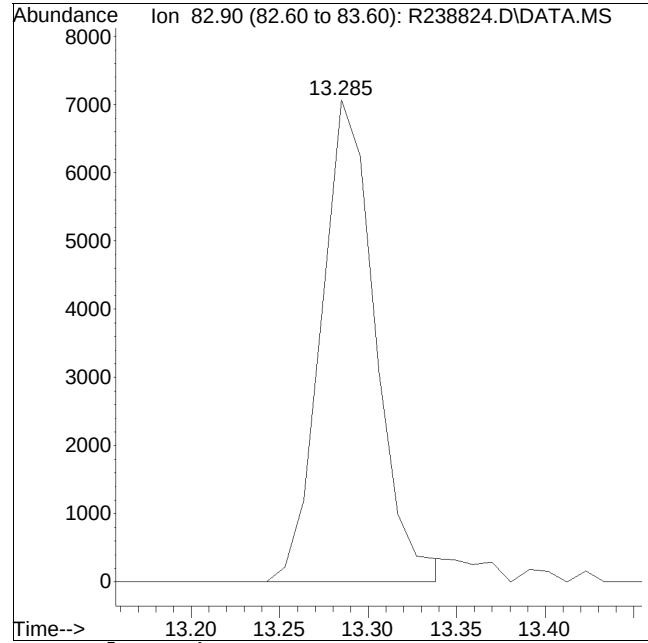
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #57: bromodichloromethane



Original Peak Response = 15581

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

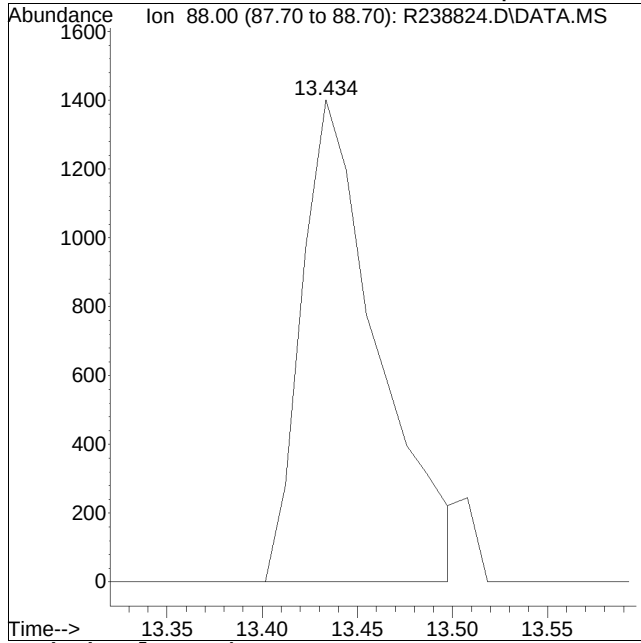


Manual Peak Response = 15022 M6

Manual Integration/Negative Proof Report

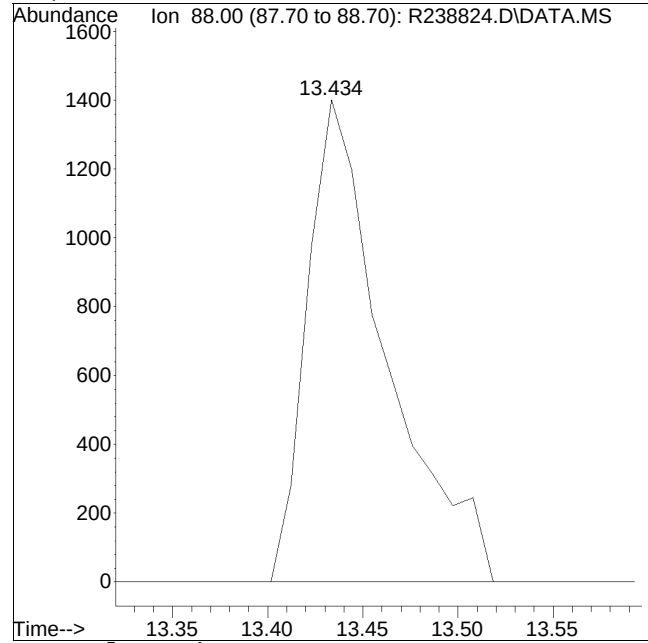
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #58: 1,4-dioxane



Original Peak Response = 3921

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

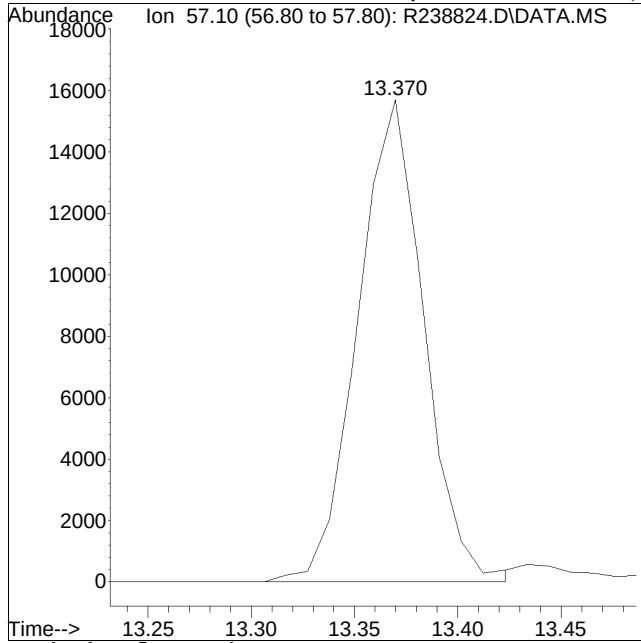


Manual Peak Response = 4077 M1

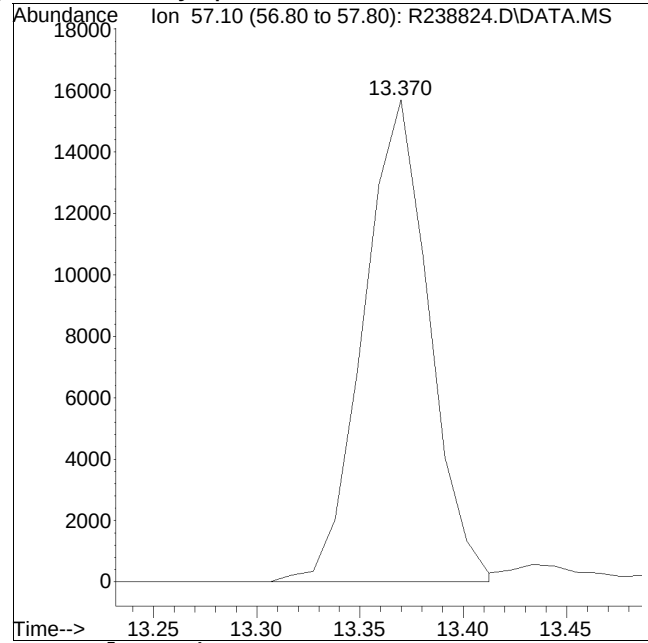
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238824.D
Date Inj'd : 2/8/2016 12:13 am
Sample : IT015-SIMSTD0.5
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 34921



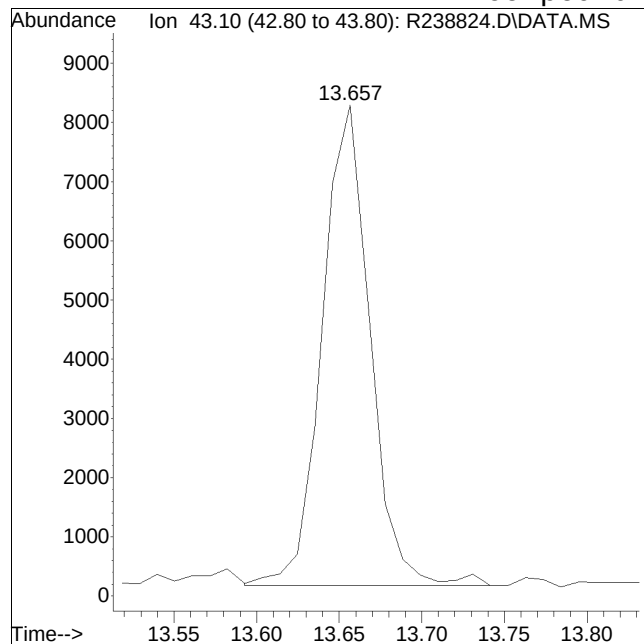
Manual Peak Response = 34672 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

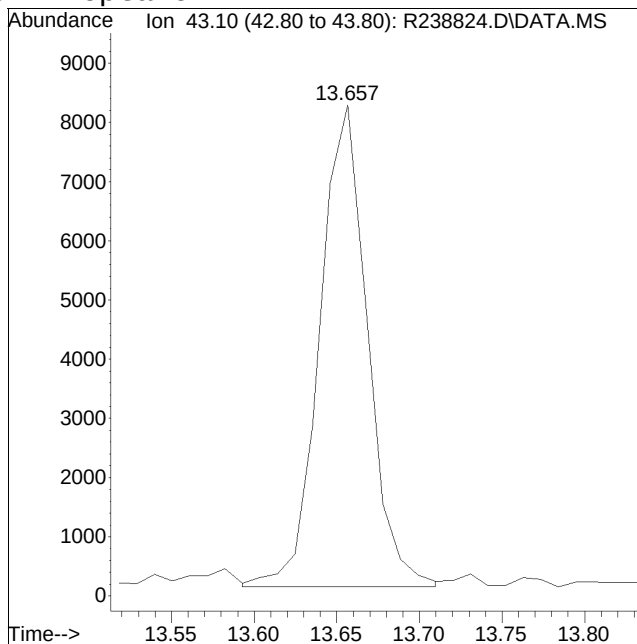
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #62: heptane



Original Peak Response = 16348

M4 = Poor automated baseline construction.

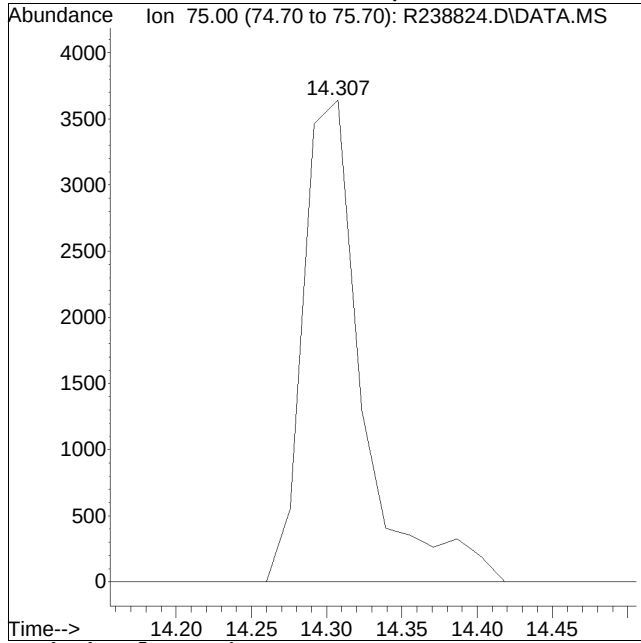


Manual Peak Response = 16364 M4

Manual Integration/Negative Proof Report

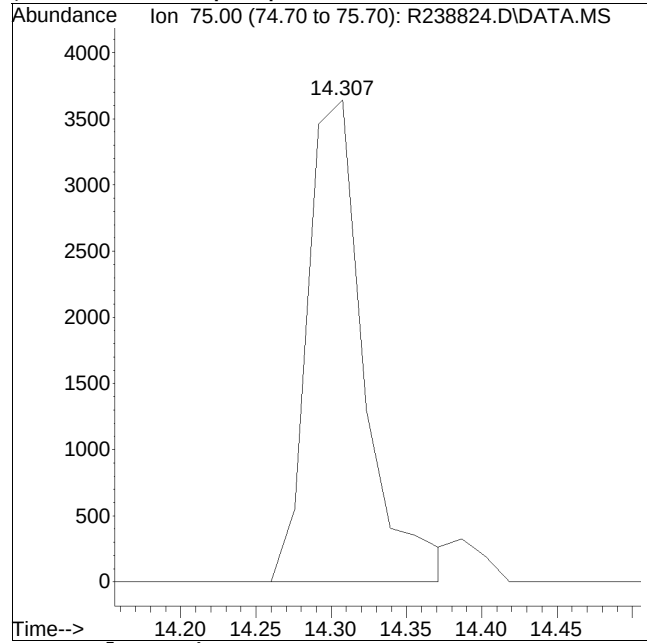
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #63: cis-1,3-dichloropropene



Original Peak Response = 9986

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

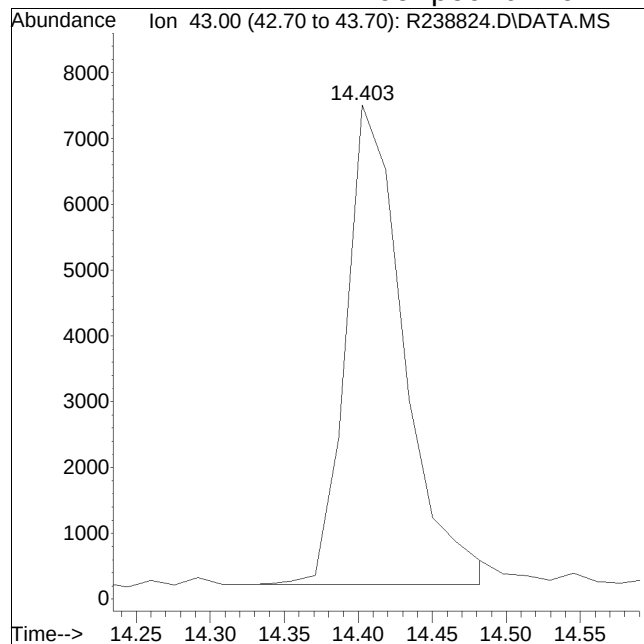


Manual Peak Response = 9492 M6

Manual Integration/Negative Proof Report

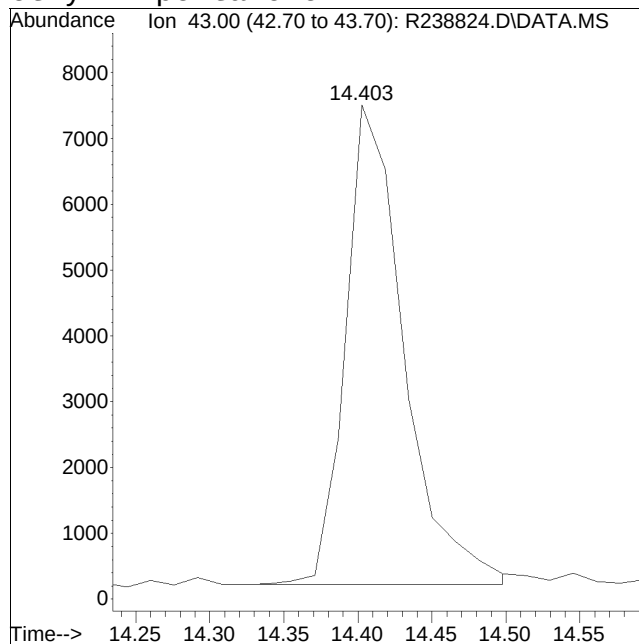
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 19810

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

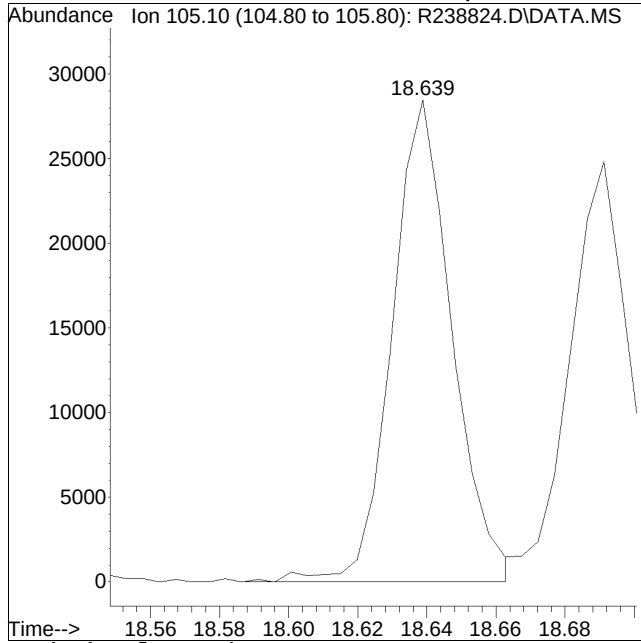


Manual Peak Response = 19961 M1

Manual Integration/Negative Proof Report

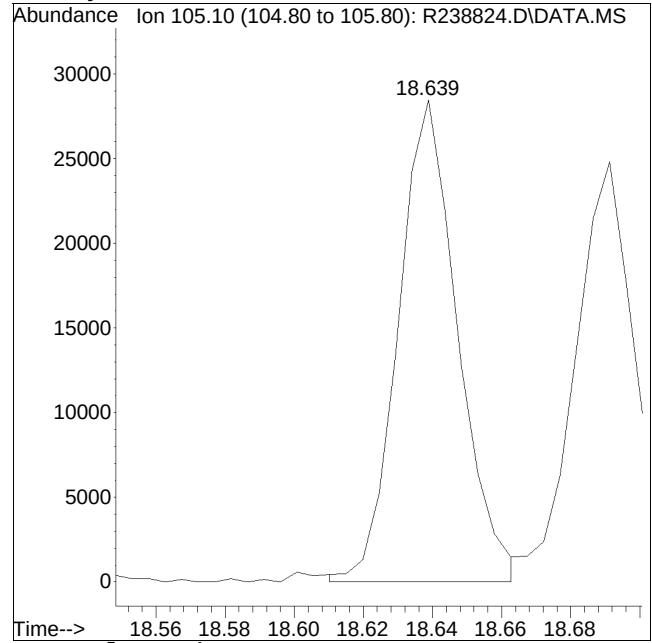
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 34328

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

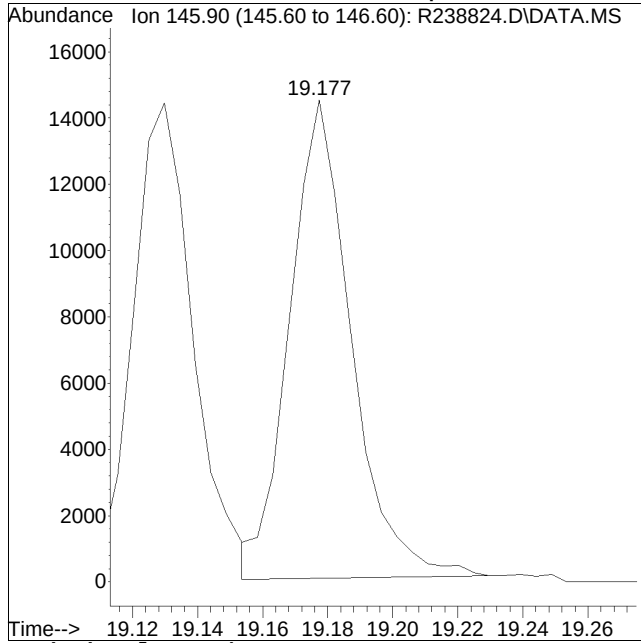


Manual Peak Response = 33889 M6

Manual Integration/Negative Proof Report

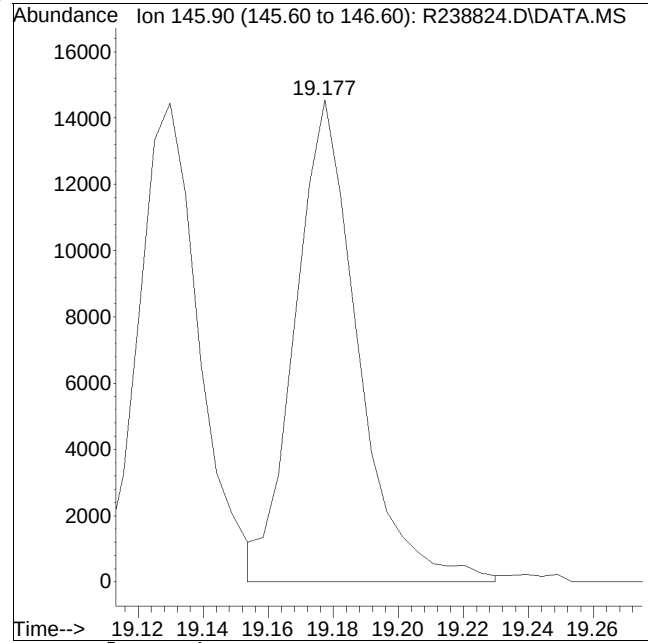
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 18936

M4 = Poor automated baseline construction.

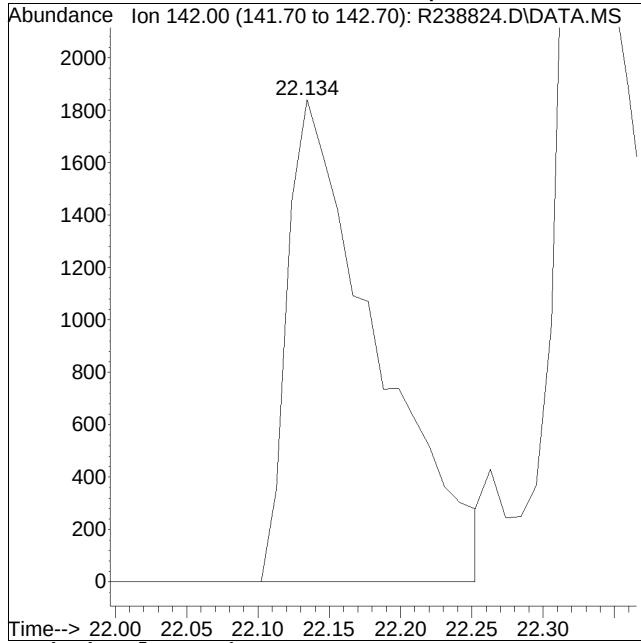


Manual Peak Response = 19552 M4

Manual Integration/Negative Proof Report

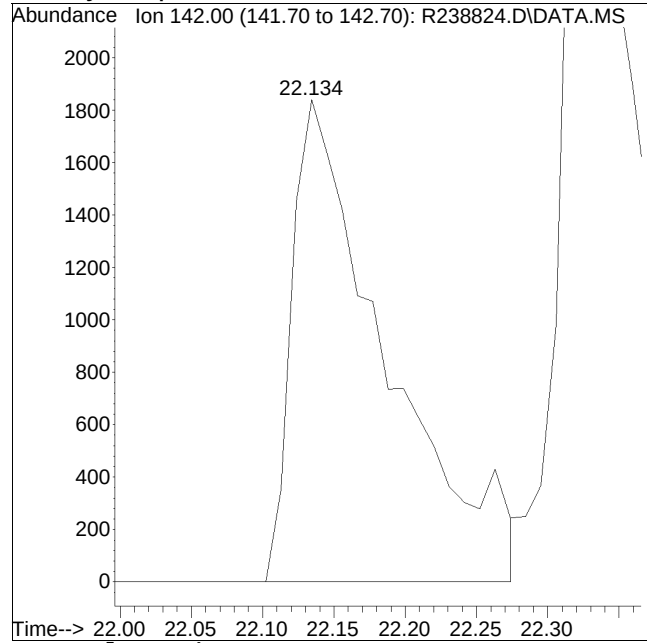
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238824.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #120: 2-methylnaphthalene



Original Peak Response = 7994

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

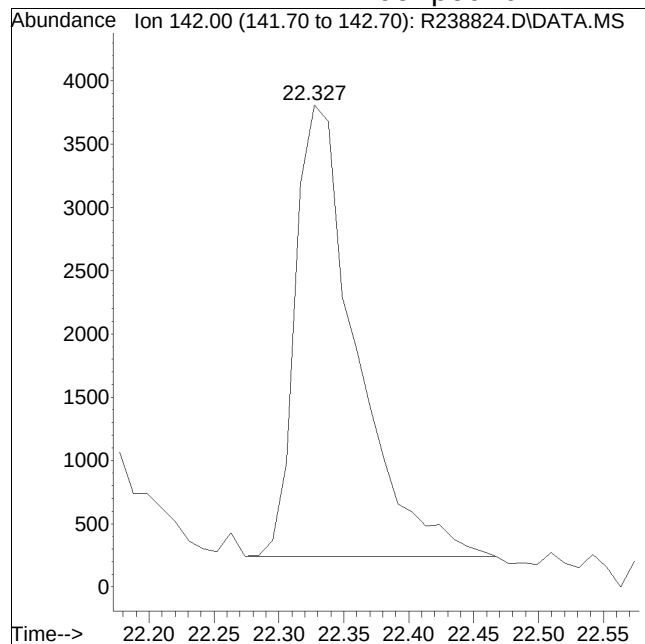


Manual Peak Response = 8427 M1

Manual Integration/Negative Proof Report

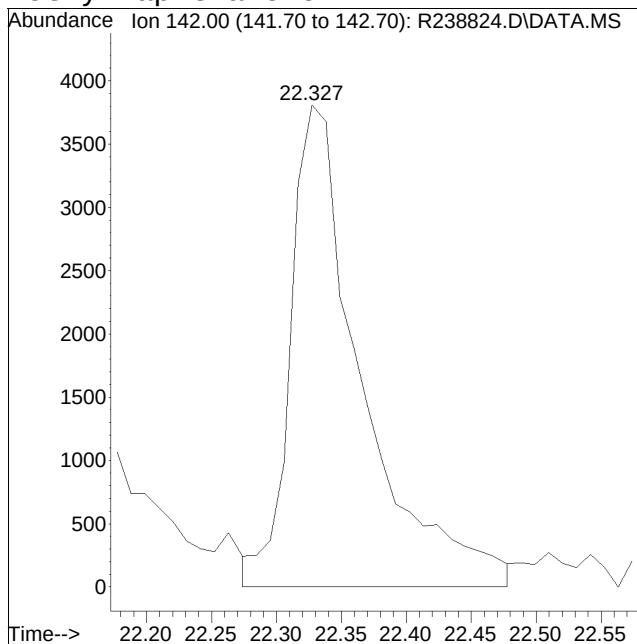
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
 Data File : R238824.D Operator : AIRPIAN02:MB
 Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.5 Quant Date : 2/8/2016 6:10 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 11553

M4 = Poor automated baseline construction.



Manual Peak Response = 14495 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:25:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	156692	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	96.53%		
43) 1,4-difluorobenzene	12.541	114	346876	10.000	ppbV	0.00
Standard Area = 355895			Recovery =	97.47%		
67) chlorobenzene-D5	16.892	54	86568	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	97.05%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.241	65	98208	10.060	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.60%		
69) toluene-D8	15.228	98	395644	10.336	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.36%		
90) bromofluorobenzene	18.063	95	193197	10.136	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.36%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.281	51	21912	1.200	ppbV	96
3) propylene	4.320	41	12933M6	1.286	ppbV	
4) propane	4.350	29	12916M4	1.306	ppbV	
5) dichlorodifluoromethane	4.419	85	21702	1.093	ppbV	100
6) chloromethane	4.645	50	12665	1.269	ppbV	95
7) Freon-114	4.793	85	30909	1.257	ppbV	95
8) methanol	4.941	31	29975	6.448	ppbV #	33
9) vinyl chloride	4.961	62	11787	1.188	ppbV	98
10) 1,3-butadiene	5.168	54	9564	1.230	ppbV	87
11) butane	5.237	43	22896M4	1.284	ppbV	
12) acetaldehyde	4.852	29	46620	6.435	ppbV	95
13) bromomethane	5.542	94	10105	1.190	ppbV	94
14) chloroethane	5.790	64	5628	1.190	ppbV	98
15) ethanol	6.054	31	56100	6.249	ppbV	95
16) dichlorofluoromethane	5.942	67	24693	1.194	ppbV	98
17) vinyl bromide	6.270	106	10064	1.227	ppbV	97
18) acrolein	6.493	56	5708	1.329	ppbV #	55
19) acetone	6.677	43	106071M4	6.020	ppbV	
20) acetonitrile	6.326	41	13558M4	1.271	ppbV	
21) trichlorofluoromethane	6.837	101	28683	1.218	ppbV	98
22) isopropyl alcohol	7.061	45	59453	3.083	ppbV	99
23) acrylonitrile	7.277	53	10874	1.406	ppbV	90
24) pentane	7.317	43	25386M4	1.316	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:25:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.405	31	20967M4	1.236	ppbV	
26) 1,1-dichloroethene	7.660	61	22013	1.247	ppbV	95
27) tertiary butyl alcohol	7.876	59	28214M1	1.242	ppbV	
28) methylene chloride	7.828	49	18043	1.255	ppbV	94
29) 3-chloropropene	7.972	41	20734M4	1.231	ppbV	
30) carbon disulfide	8.156	76	34551	1.179	ppbV #	91
31) Freon 113	8.164	101	24419	1.208	ppbV	93
32) trans-1,2-dichloroethene	8.974	61	20349	1.185	ppbV	100
33) 1,1-dichloroethane	9.215	63	23273	1.178	ppbV	99
34) MTBE	9.338	73	34940	1.227	ppbV	96
35) vinyl acetate	9.434	43	27646	1.040	ppbV	99
36) 2-butanone	9.743	43	32701M4	1.186	ppbV	
37) cis-1,2-dichloroethene	10.189	61	18348	1.201	ppbV	88
38) Ethyl Acetate	10.508	61	3650	1.051	ppbV	87
39) chloroform	10.527	83	25122	1.198	ppbV	99
40) Tetrahydrofuran	11.053	42	18567M6	1.159	ppbV	
41) 2,2-dichloropropane	10.555	77	24049	1.224	ppbV	98
42) 1,2-dichloroethane	11.363	62	18184	1.147	ppbV	96
44) hexane	10.433	57	20693	1.152	ppbV #	48
45) diisopropyl ether	10.471	87	9740	1.243	ppbV	72
46) tert-butyl ethyl ether	11.081	59	42999	1.203	ppbV	96
48) 1,1,1-trichloroethane	11.639	97	30350	1.233	ppbV	99
49) 1,1-dichloropropene	11.989	75	19165	1.203	ppbV	91
50) benzene	12.159	78	36747	1.201	ppbV	97
51) thiophene	12.308	84	24679	1.200	ppbV	97
52) carbon tetrachloride	12.318	117	26683	1.170	ppbV	97
53) cyclohexane	12.456	56	23175	1.237	ppbV	97
54) tert-amyl methyl ether	12.849	73	36203	1.189	ppbV	97
55) dibromomethane	13.041	93	14971	1.153	ppbV	96
56) 1,2-dichloropropane	13.073	63	14277	1.140	ppbV	94
57) bromodichloromethane	13.285	83	27994M6	1.154	ppbV	
58) 1,4-dioxane	13.402	88	8461M1	1.179	ppbV	
59) trichloroethene	13.327	130	16281	1.206	ppbV	98
60) 2,2,4-trimethylpentane	13.359	57	71431	1.198	ppbV	100
61) methyl methacrylate	13.561	41	21727	1.162	ppbV	95
62) heptane	13.657	43	29579M4	1.145	ppbV	
63) cis-1,3-dichloropropene	14.292	75	19568M6	1.104	ppbV	
64) 4-methyl-2-pentanone	14.387	43	42555	1.210	ppbV	97
65) trans-1,3-dichloropropene	14.867	75	27778	1.103	ppbV	97
66) 1,1,2-trichloroethane	15.047	97	21486	1.209	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:25:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.328	91	63926	1.167	ppbV	100
70) 2-methylthiophene	15.391	97	55615	1.227	ppbV	95
71) 1,3-dichloropropane	15.346	76	29300	1.189	ppbV	98
72) 2-hexanone	15.608	43	47446	1.020	ppbV	98
73) 3-methylthiophene	15.563	97	56406	1.218	ppbV	100
74) dibromochloromethane	15.734	129	41272	1.153	ppbV	95
75) 1,2-dibromoethane	15.960	107	34422	1.184	ppbV	95
76) butyl acetate	16.159	73	6674	1.131	ppbV	83
77) octane	16.204	85	18602	1.154	ppbV	92
78) tetrachloroethene	16.358	166	29006	1.174	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.911	131	19021	1.154	ppbV	97
80) chlorobenzene	16.925	112	35648	1.184	ppbV	98
81) ethylbenzene	17.220	91	58588	1.188	ppbV	100
82) 2-ethylthiophene	17.254	97	46047	1.168	ppbV	96
83) m+p-xylene	17.363	91	90620	2.350	ppbV	95
84) bromoform	17.439	173	27050	1.124	ppbV	99
85) styrene	17.639	104	34549	1.148	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.720	83	33933	1.154	ppbV	98
87) o-xylene	17.720	91	47322	1.191	ppbV	96
88) 1,2,3-trichloropropane	17.820	75	27830	1.174	ppbV	99
89) nonane	17.854	43	43271	1.165	ppbV	98
91) isopropylbenzene	18.154	105	63078	1.180	ppbV	99
92) bromobenzene	18.239	77	35532	1.196	ppbV	100
93) 2-chlorotoluene	18.520	126	16362	1.160	ppbV #	56
94) n-propylbenzene	18.530	120	18018	1.179	ppbV	99
95) 4-chlorotoluene	18.568	91	51115	1.164	ppbV	99
96) 4-ethyl toluene	18.635	105	69109M6	1.163	ppbV	
97) 1,3,5-trimethylbenzene	18.687	105	58793M4	1.215	ppbV	
98) tert-butylbenzene	18.992	119	59065	1.194	ppbV	98
99) 1,2,4-trimethylbenzene	18.992	105	56058	1.174	ppbV	96
100) decane	19.035	57	40815	1.125	ppbV	97
101) Benzyl Chloride	19.111	91	48514	1.049	ppbV	98
102) 1,3-dichlorobenzene	19.126	146	36348	1.129	ppbV	97
103) 1,4-dichlorobenzene	19.173	146	38783	1.180	ppbV	95
104) sec-butylbenzene	19.192	105	80805	1.169	ppbV	98
105) 1,2,3-trimethylbenzene	19.316	105	52497	1.203	ppbV	98
106) p-isopropyltoluene	19.302	119	72544	1.155	ppbV	100
107) 1,2-dichlorobenzene	19.435	146	35969	1.146	ppbV	97
108) n-butylbenzene	19.626	91	67034	1.125	ppbV	99
109) indan	19.478	117	56136	1.198	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD1.0
 Misc : WG863495
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 08 06:25:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

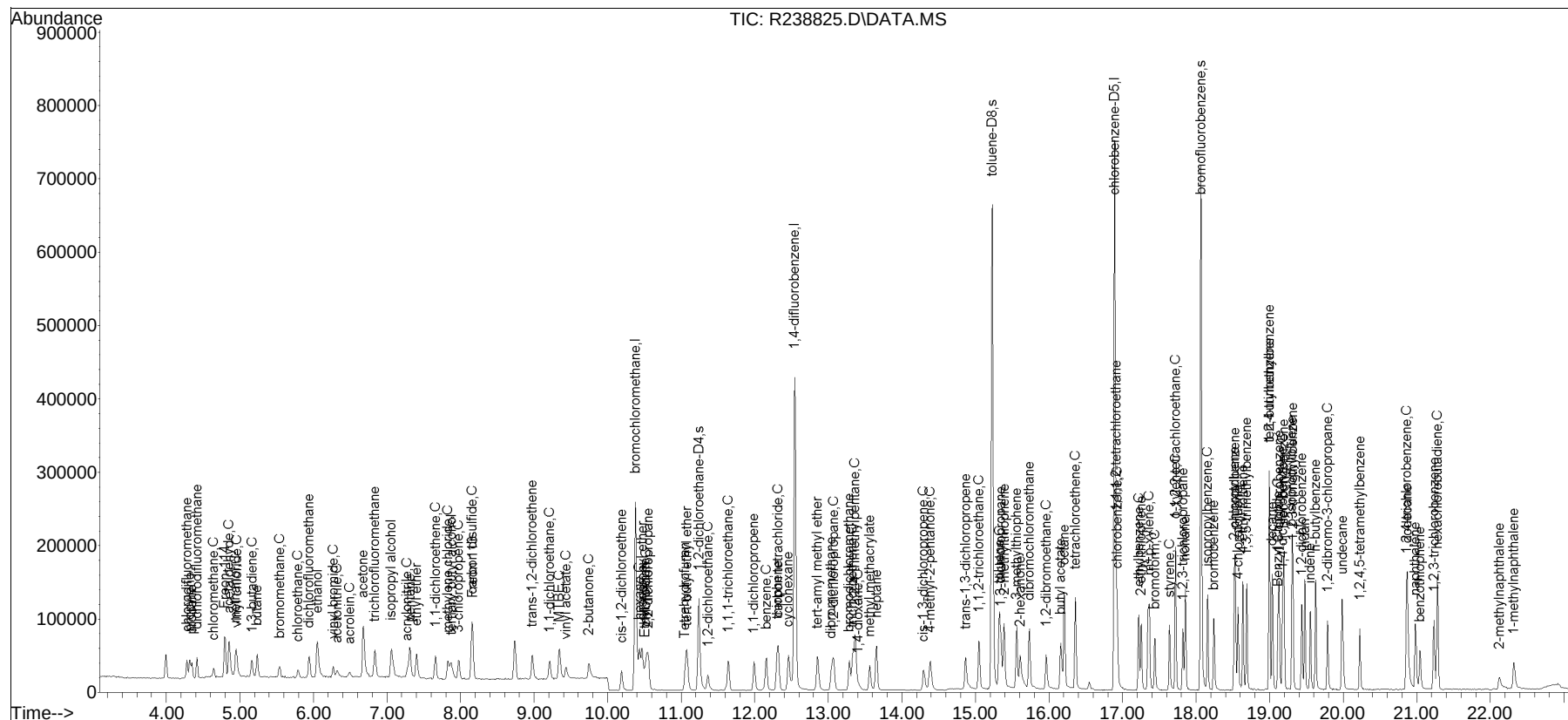
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.554	115	45076	1.154	ppbV	97
111)	1,2-dibromo-3-chloropr...	19.787	75	18503	1.054	ppbV	95
112)	undecane	19.987	57	45289	1.056	ppbV	97
113)	1,2,4,5-tetramethylben...	20.226	119	35601	1.009	ppbV	96
114)	dodecane	20.870	57	47091	0.968	ppbV	99
115)	1,2,4-trichlorobenzene	20.859	180	28586	0.973	ppbV	97
116)	naphthalene	20.977	128	71994M4	1.013	ppbV	
117)	1,2,3-trichlorobenzene	21.235	180	28732	1.011	ppbV	98
118)	benzothiophene	21.042	134	38153	1.117	ppbV	98
119)	hexachlorobutadiene	21.278	225	25600	1.035	ppbV	98
120)	2-methylnaphthalene	22.124	142	18699M4	0.877	ppbV	
121)	1-methylnaphthalene	22.317	142	30174M4	1.008	ppbV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


```
Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238825.D
Acq On    : 8 Feb 2016 12:48 am
Operator  : AIRPIAN02:MB
Sample    : IT015-SIMSTD1.0
Misc      : WG863495
ALS Vial  : 6 Sample Multiplier: 1
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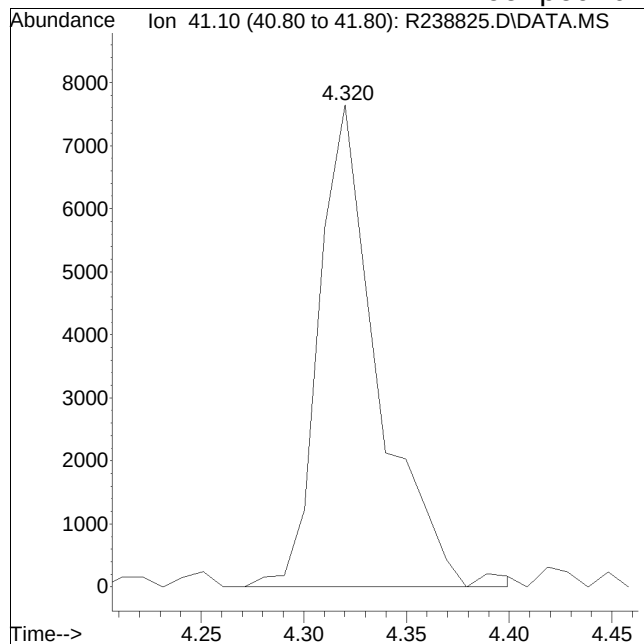
Quant Time: Feb 08 06:25:47 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

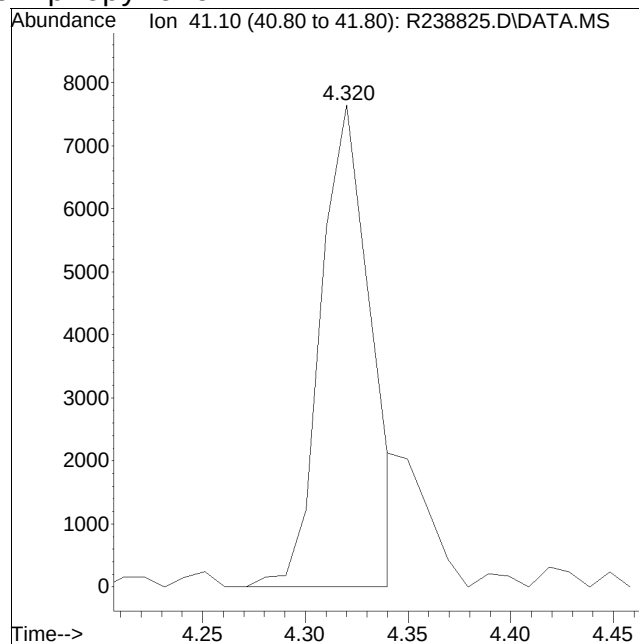
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 15360

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



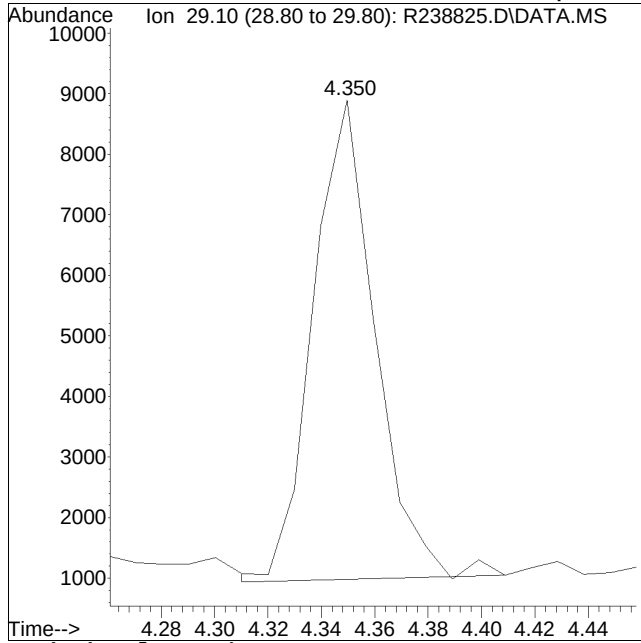
Manual Peak Response = 12933 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

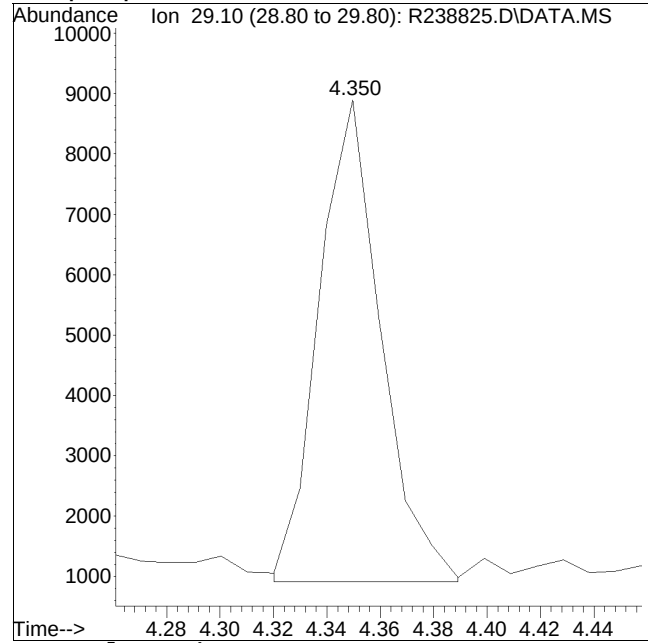
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 12829



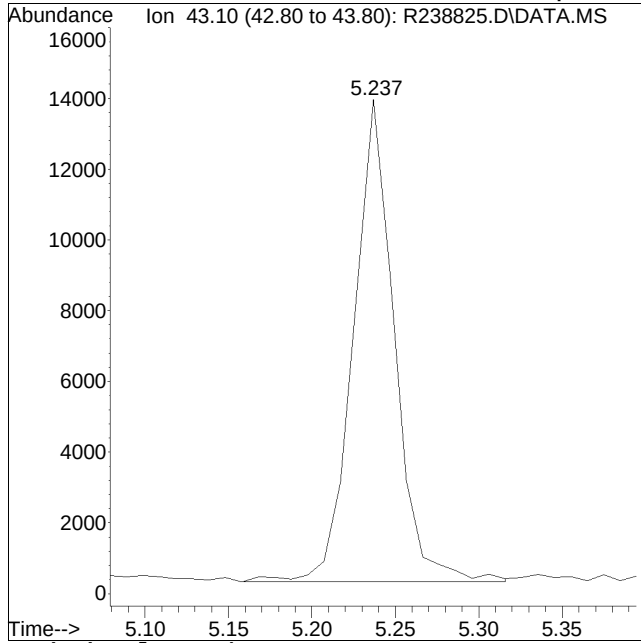
Manual Peak Response = 12916 M4

M4 = Poor automated baseline construction.

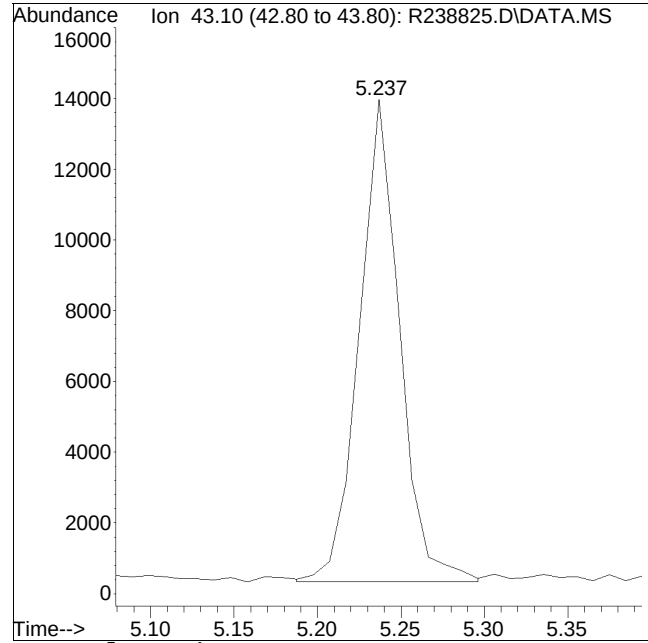
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #11: butane



Original Peak Response = 23304



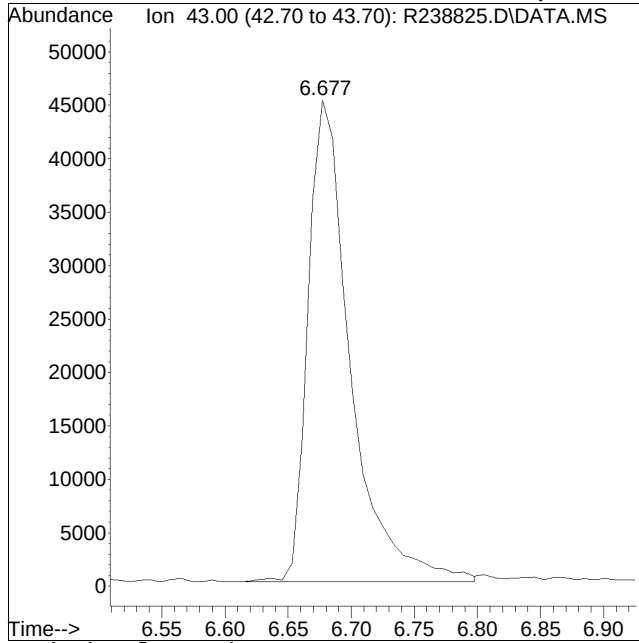
Manual Peak Response = 22896 M4

M4 = Poor automated baseline construction.

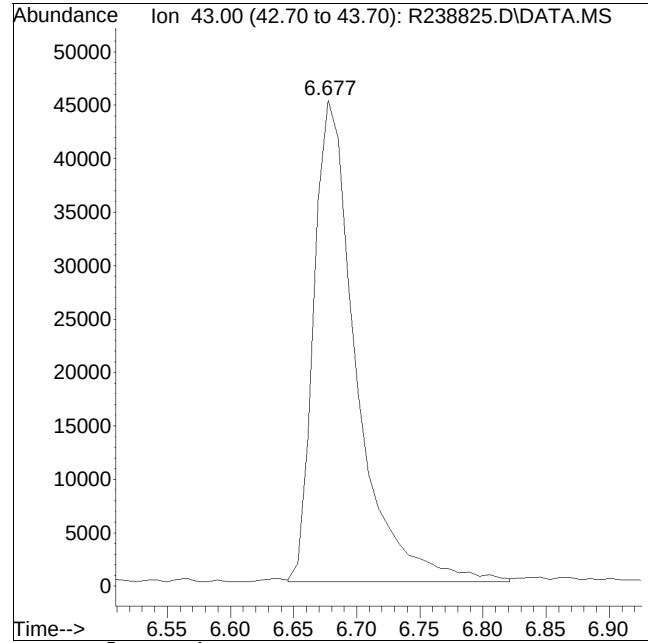
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #19: acetone



Original Peak Response = 106007



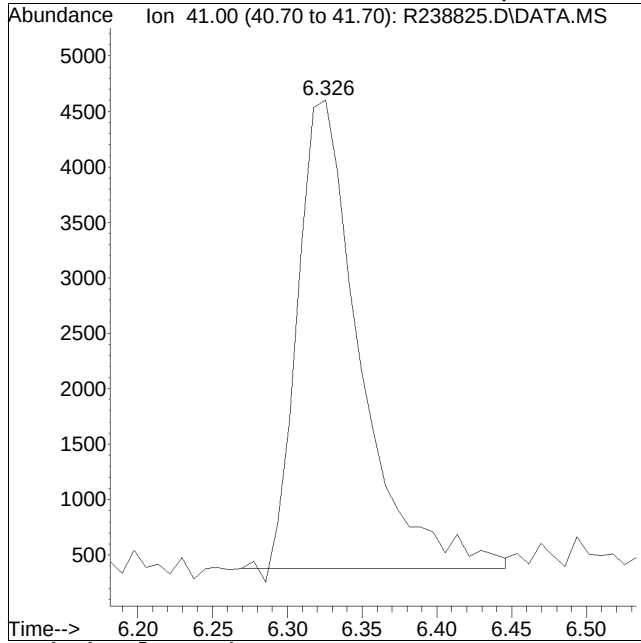
Manual Peak Response = 106071 M4

M4 = Poor automated baseline construction.

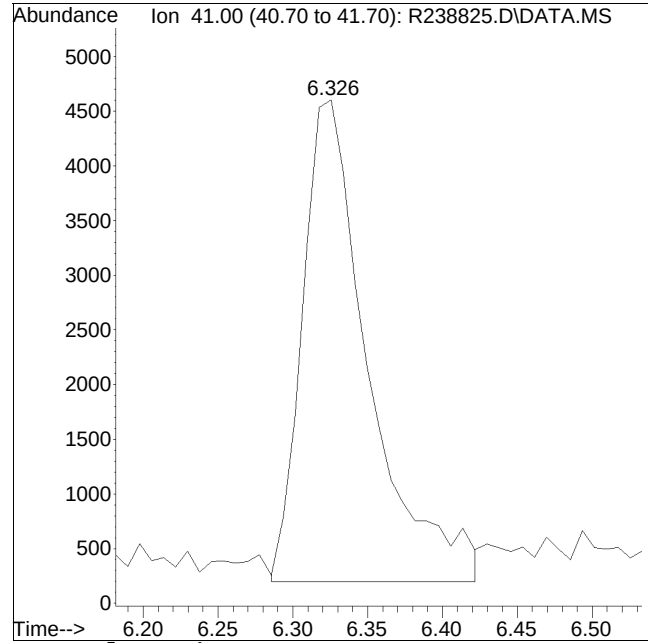
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #20: acetonitrile



Original Peak Response = 12186



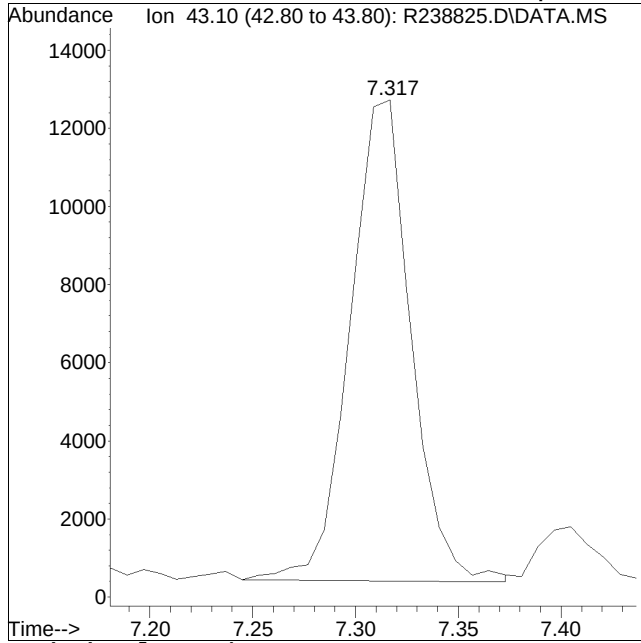
Manual Peak Response = 13558 M4

M4 = Poor automated baseline construction.

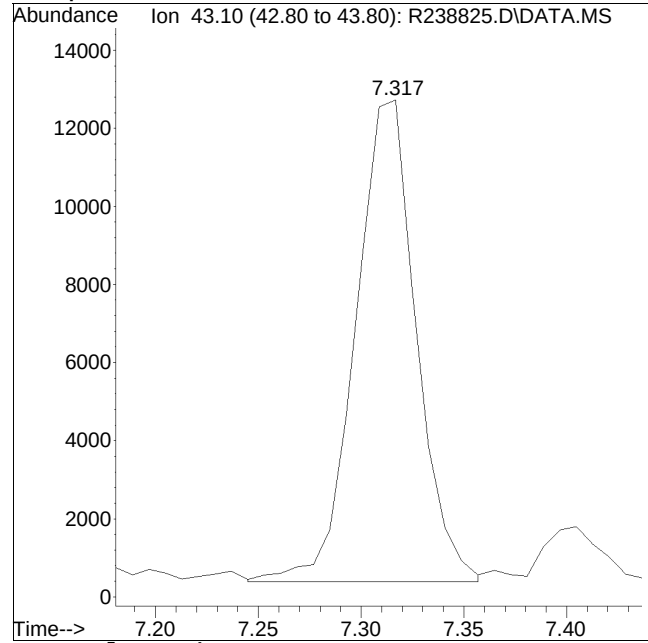
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #24: pentane



Original Peak Response = 25350



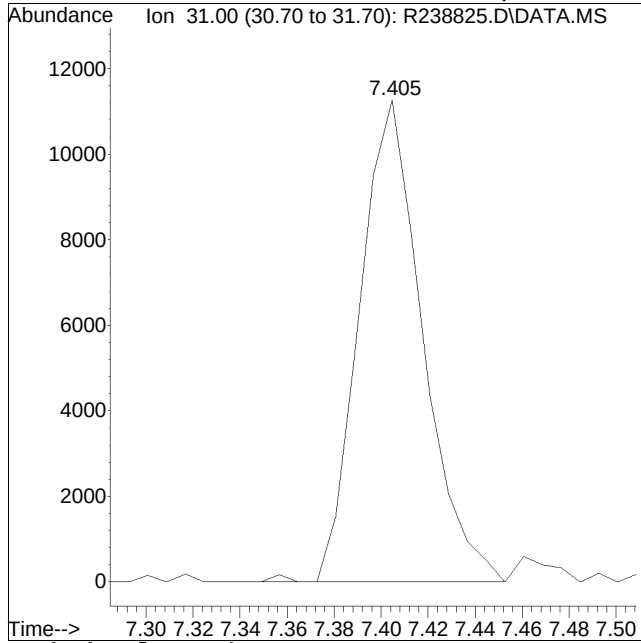
Manual Peak Response = 25386 M4

M4 = Poor automated baseline construction.

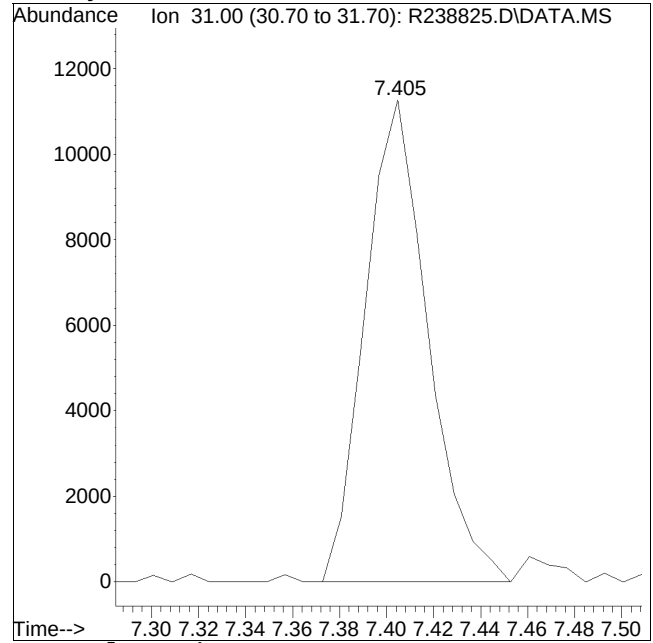
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #25: ethyl ether



Original Peak Response = 21051



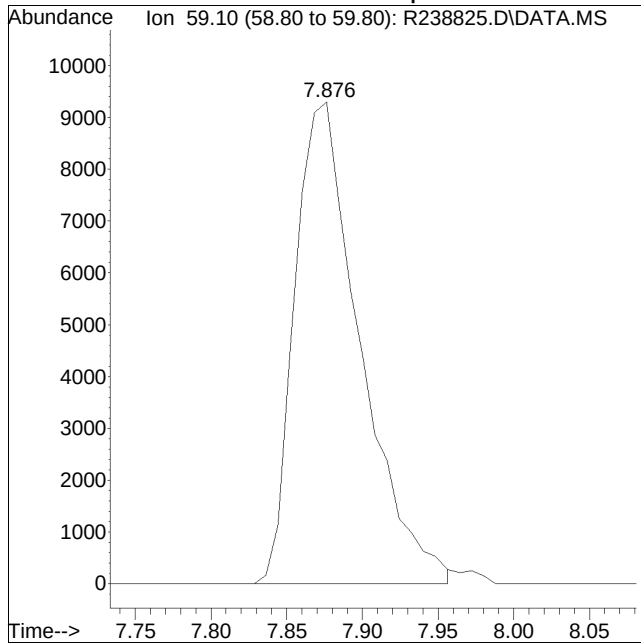
Manual Peak Response = 20967 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

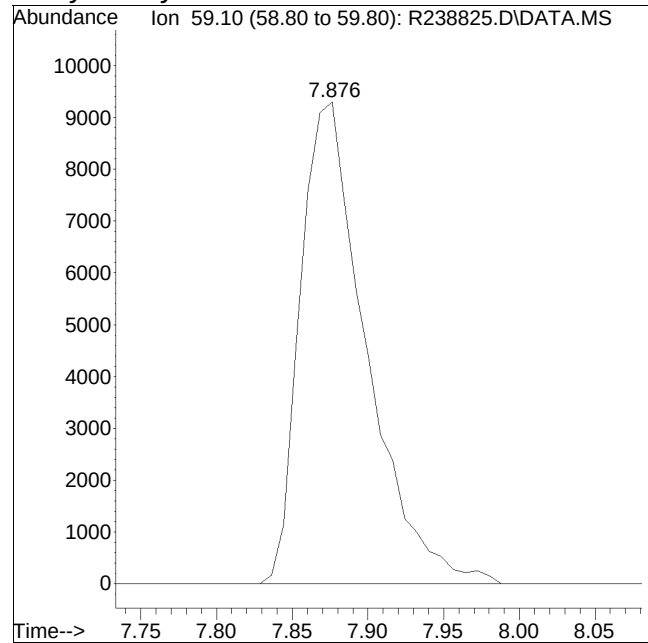
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 27913

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

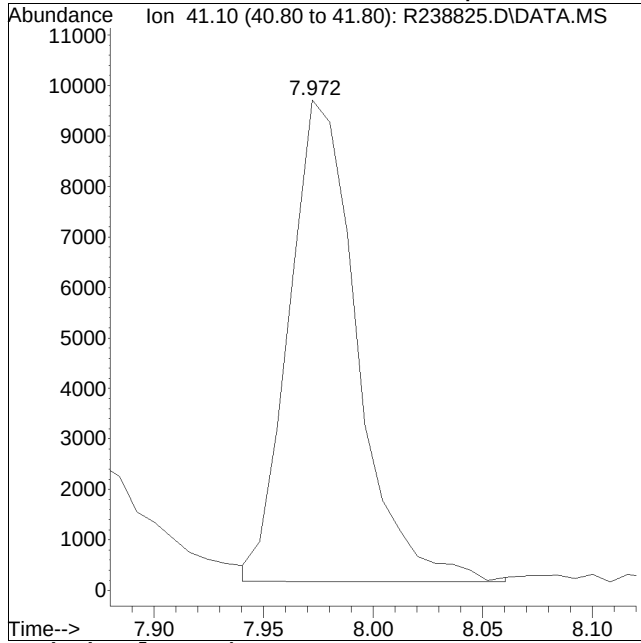


Manual Peak Response = 28214 M1

Manual Integration/Negative Proof Report

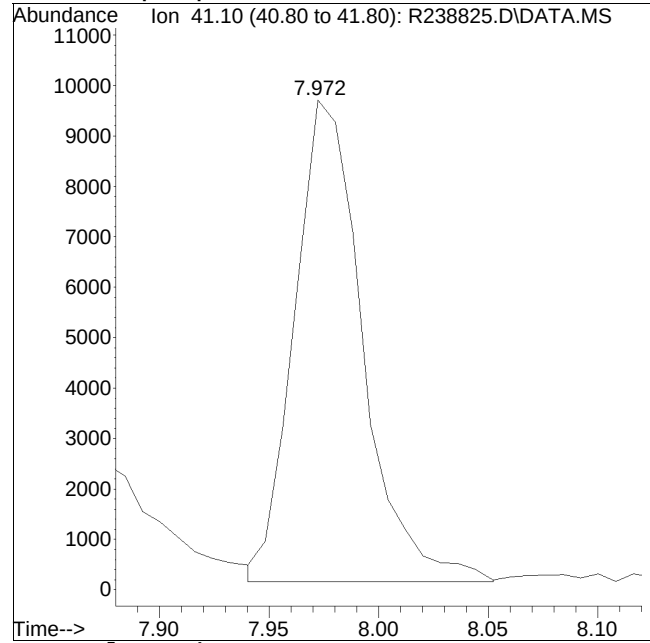
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #29: 3-chloropropene



Original Peak Response = 20651

M4 = Poor automated baseline construction.



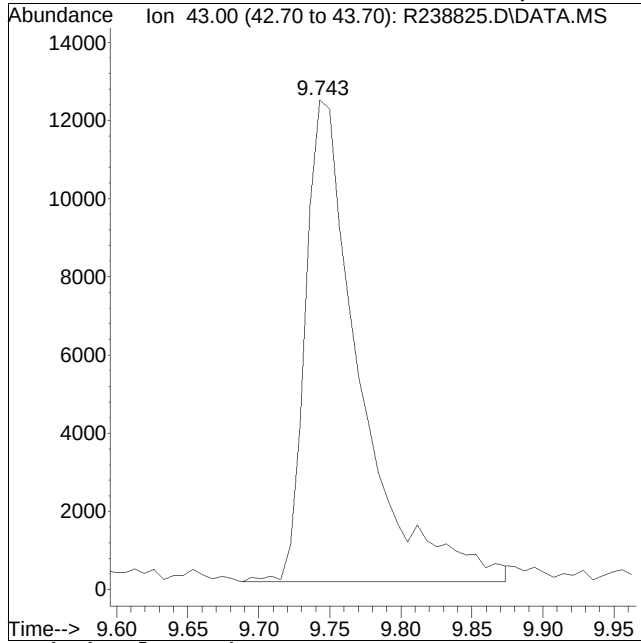
Manual Peak Response = 20734 M4

Manual Integration/Negative Proof Report

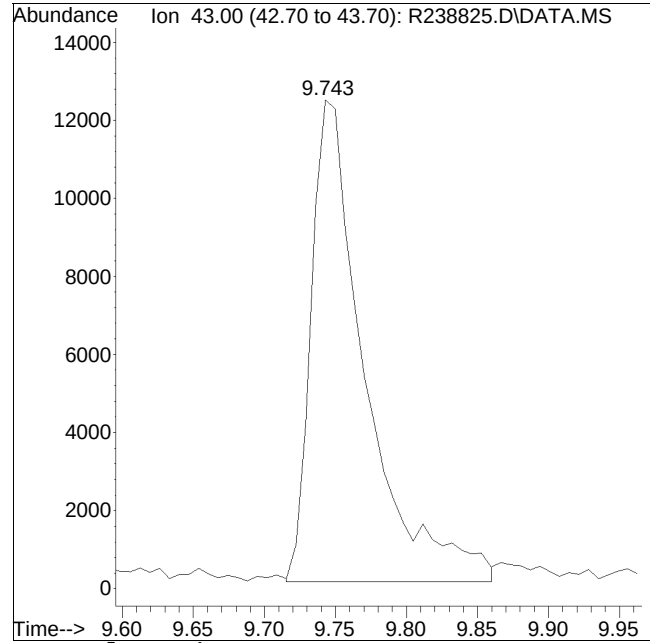
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238825.D
Date Inj'd : 2/8/2016 12:48 am
Sample : IT015-SIMSTD1.0

Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #36: 2-butanone



Original Peak Response = 33014



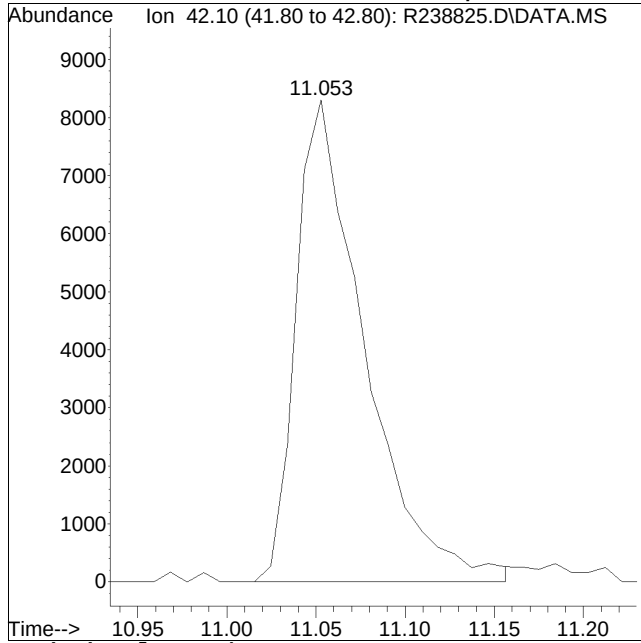
Manual Peak Response = 32701 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

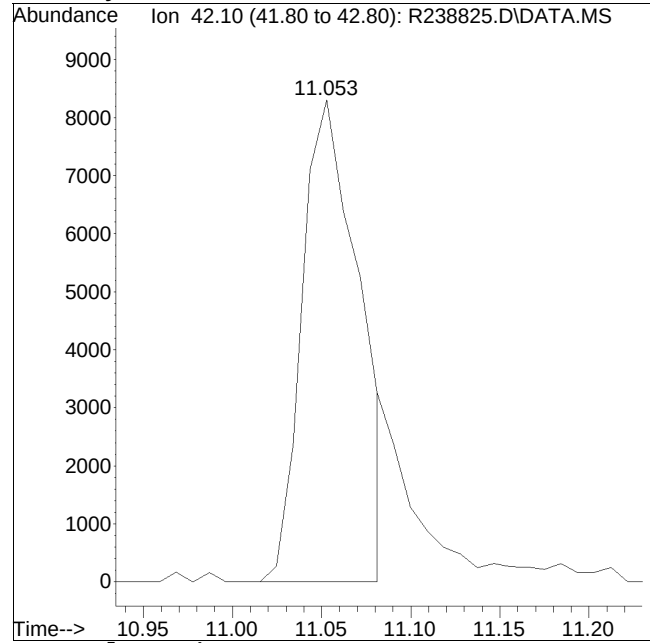
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 22203

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

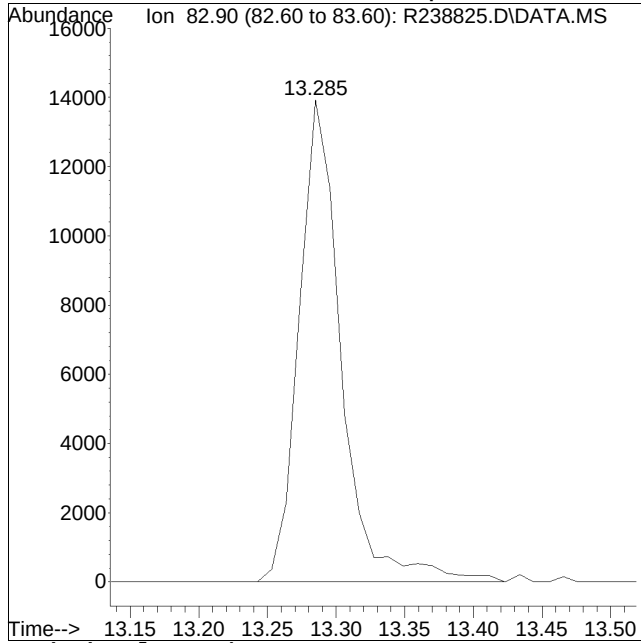


Manual Peak Response = 18567 M6

Manual Integration/Negative Proof Report

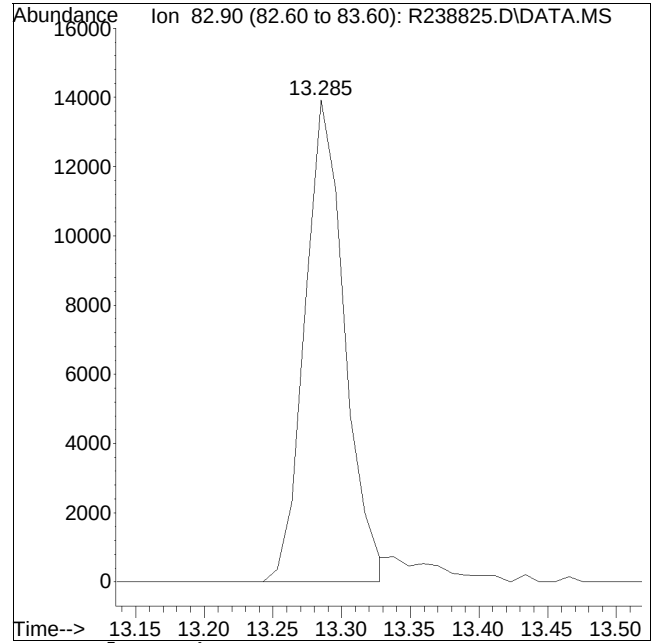
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238825.D
Date Inj'd : 2/8/2016 12:48 am
Sample : IT015-SIMSTD1.0
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #57: bromodichloromethane



Original Peak Response = 29902

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

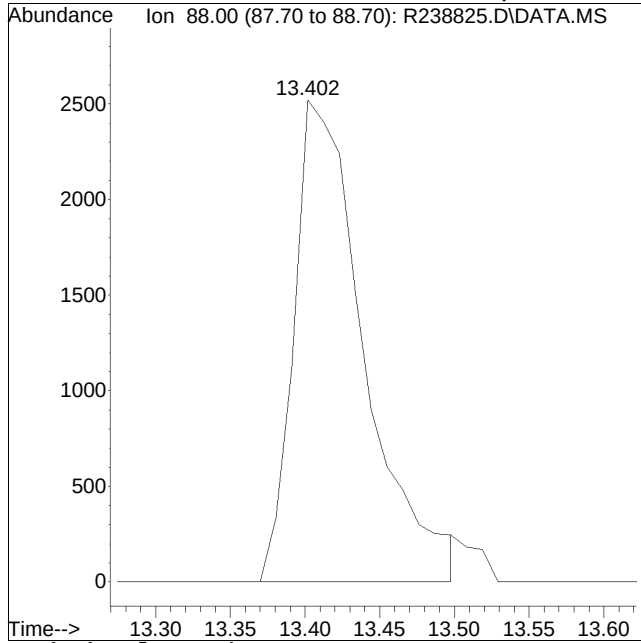


Manual Peak Response = 27994 M6

Manual Integration/Negative Proof Report

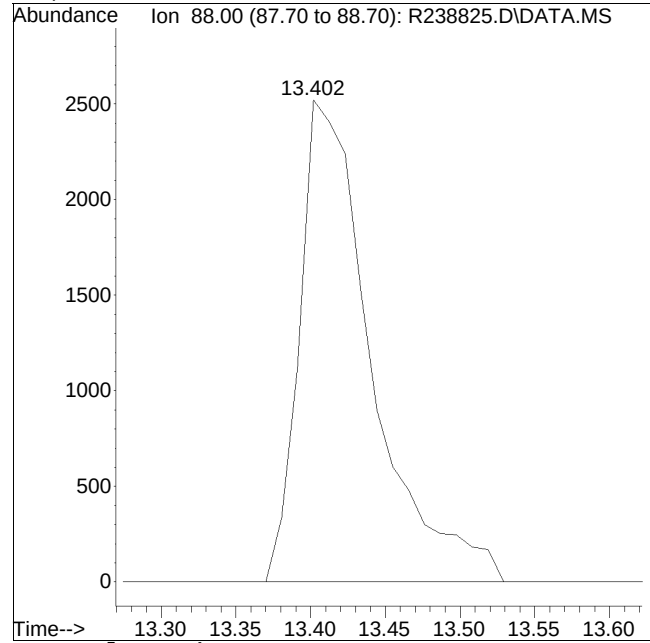
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #58: 1,4-dioxane



Original Peak Response = 8237

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

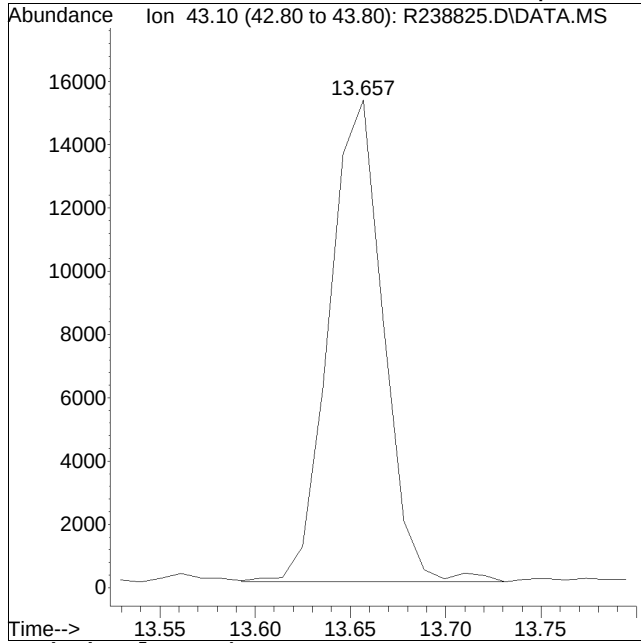


Manual Peak Response = 8461 M1

Manual Integration/Negative Proof Report

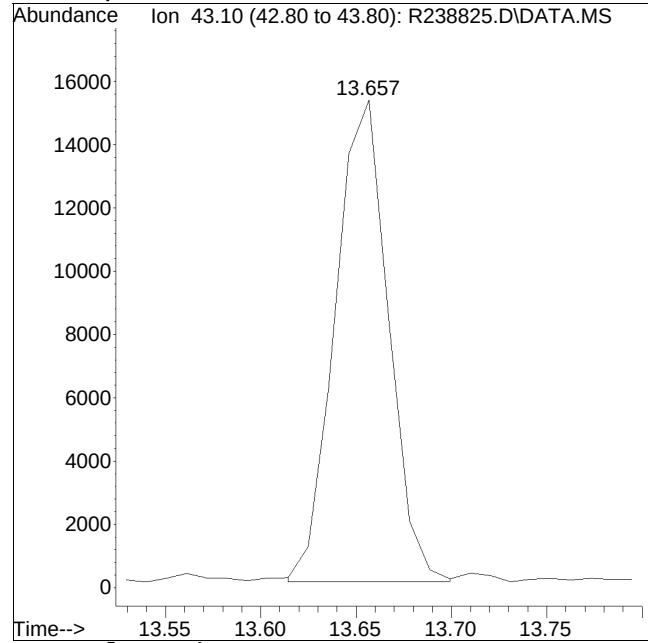
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #62: heptane



Original Peak Response = 30117

M4 = Poor automated baseline construction.

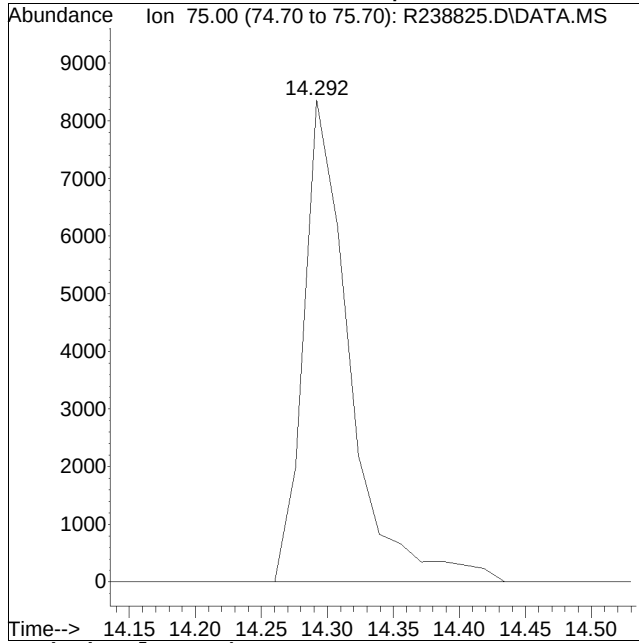


Manual Peak Response = 29579 M4

Manual Integration/Negative Proof Report

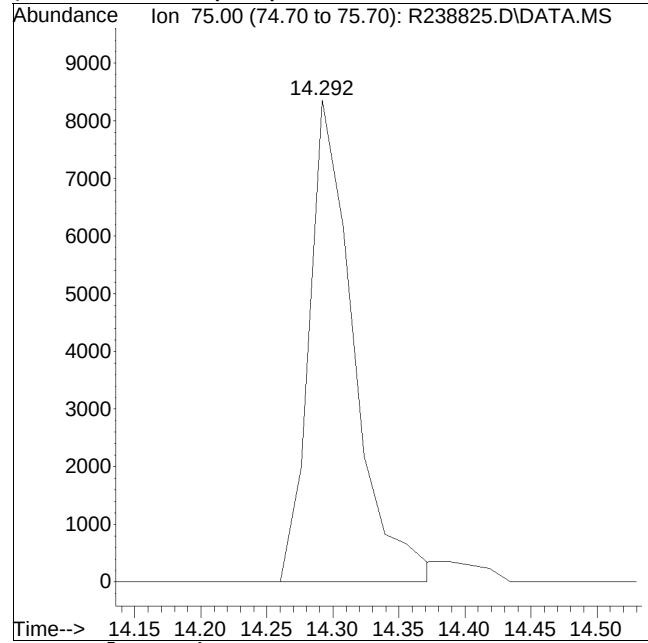
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #63: cis-1,3-dichloropropene



Original Peak Response = 20416

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

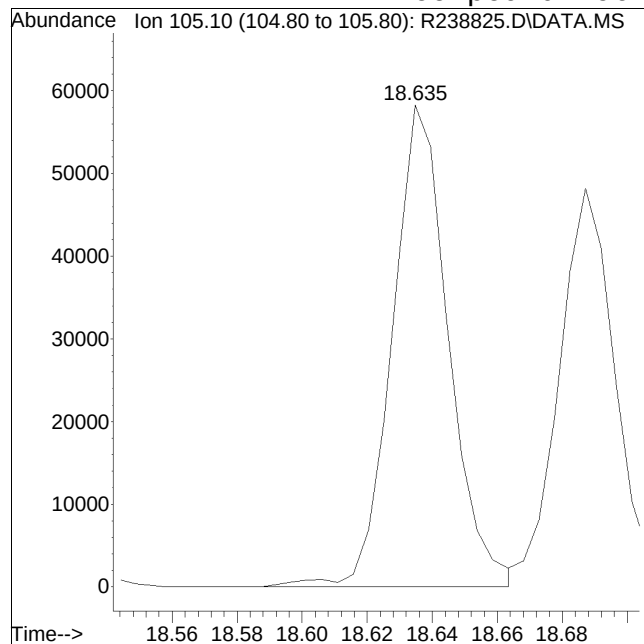


Manual Peak Response = 19568 M6

Manual Integration/Negative Proof Report

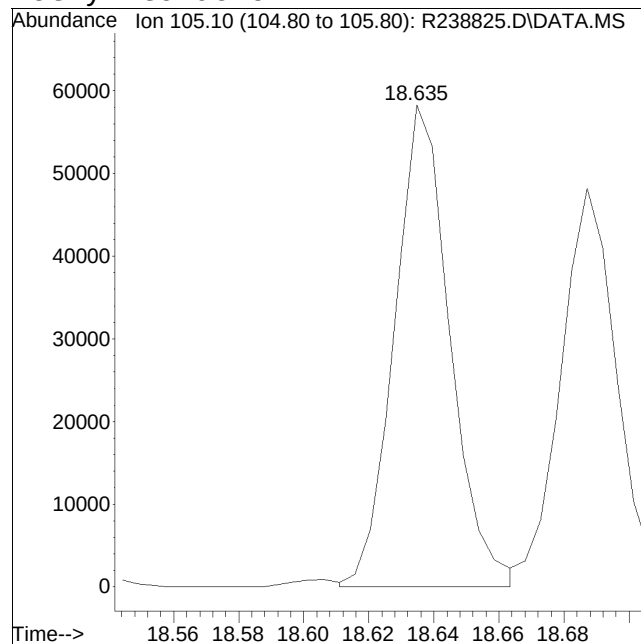
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 70017

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

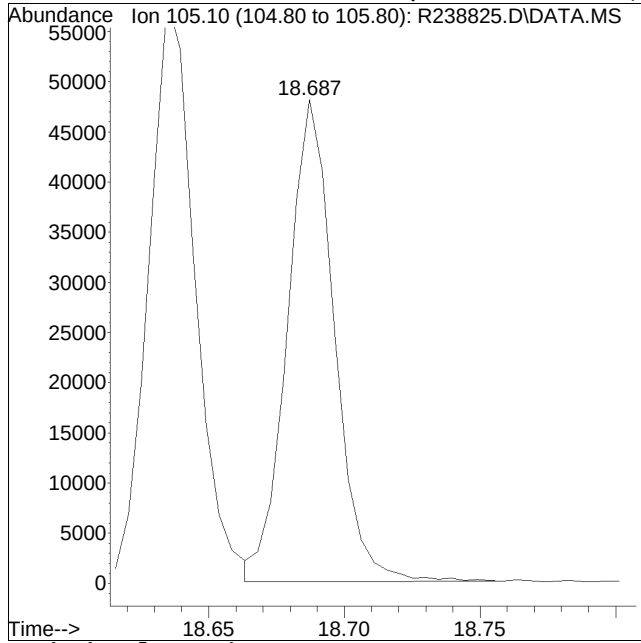


Manual Peak Response = 69109 M6

Manual Integration/Negative Proof Report

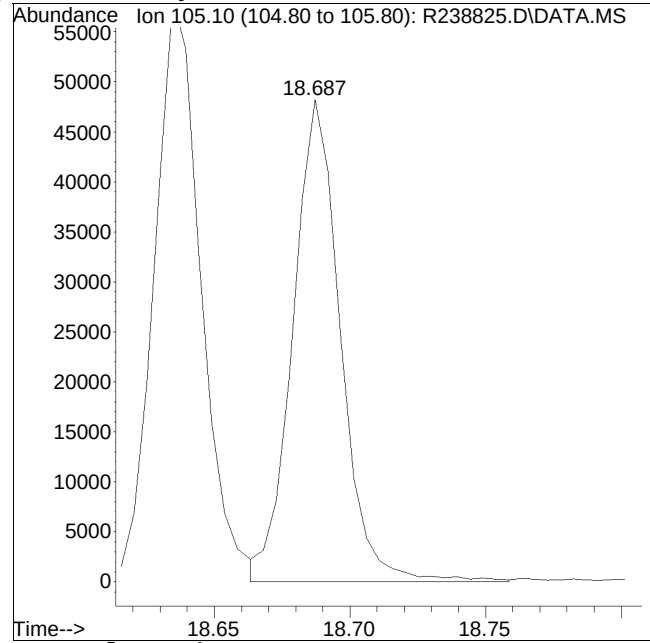
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238825.D
Date Inj'd : 2/8/2016 12:48 am
Sample : IT015-SIMSTD1.0
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 57750

M4 = Poor automated baseline construction.

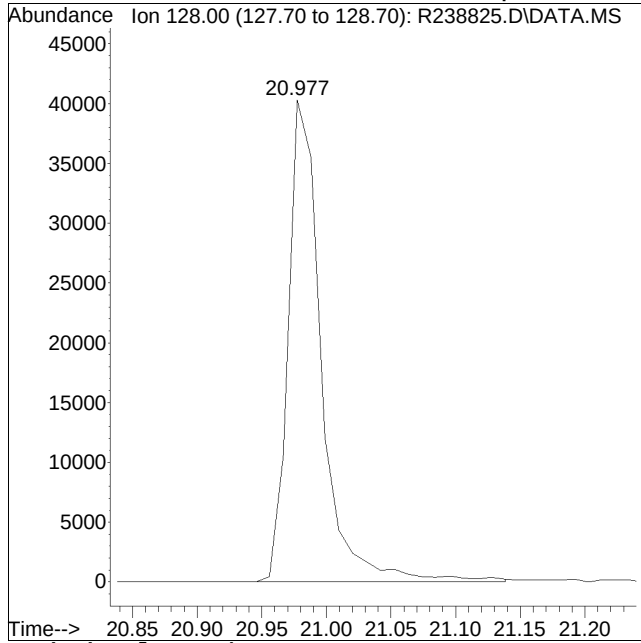


Manual Peak Response = 58793 M4

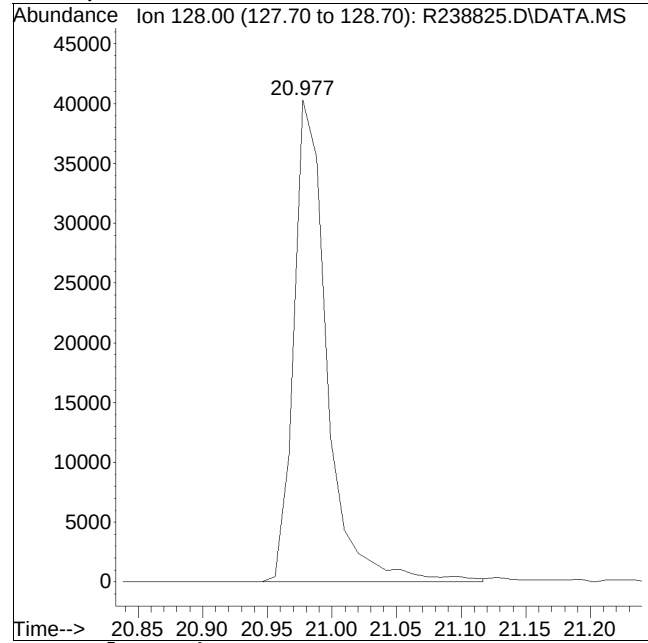
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #116: naphthalene



Original Peak Response = 72402



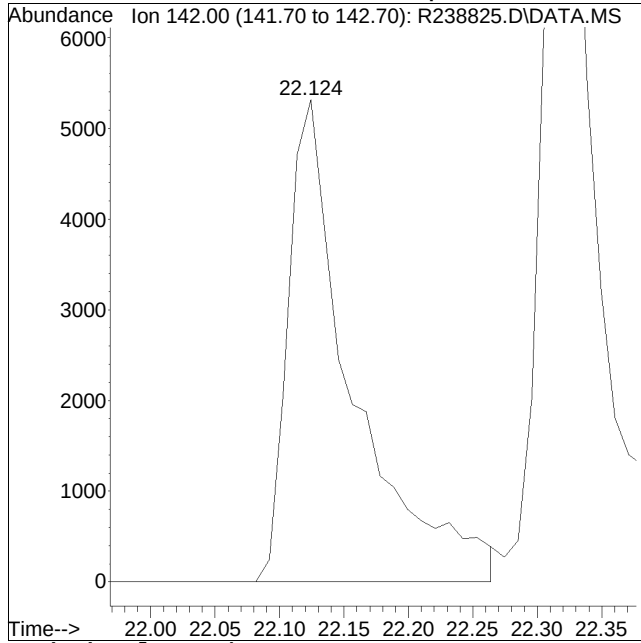
Manual Peak Response = 71994 M4

M4 = Poor automated baseline construction.

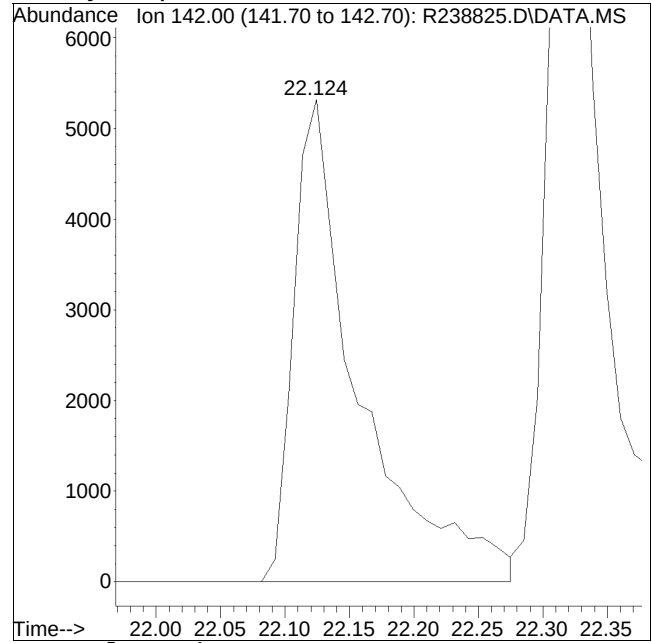
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #120: 2-methylnaphthalene



Original Peak Response = 18523



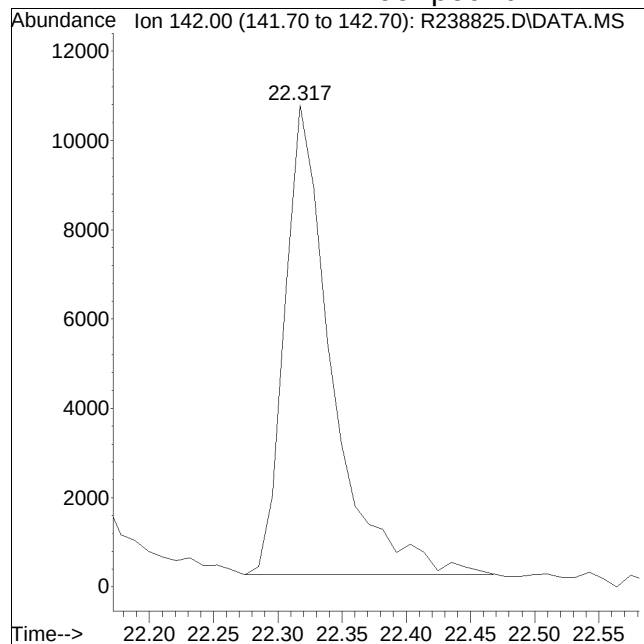
Manual Peak Response = 18699 M4

M4 = Poor automated baseline construction.

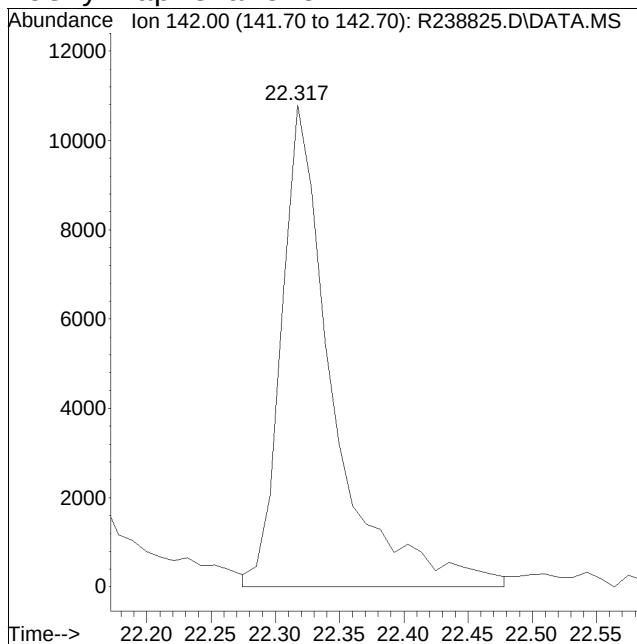
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238825.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/8/2016 6:10 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 26866



Manual Peak Response = 30174 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:28:50 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	162082	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	99.85%		
43) 1,4-difluorobenzene	12.541	114	357594	10.000	ppbV	0.00
Standard Area = 355895			Recovery =	100.48%		
67) chlorobenzene-D5	16.891	54	90656	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	101.63%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.241	65	98813	9.819	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.19%		
69) toluene-D8	15.228	98	395647	9.870	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.70%		
90) bromofluorobenzene	18.063	95	196518	9.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.45%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.281	51	97940	5.184	ppbV	98
3) propylene	4.320	41	54816M6	5.268	ppbV	
4) propane	4.350	29	53914M4	5.268	ppbV	
5) dichlorodifluoromethane	4.419	85	105020	5.113	ppbV	100
6) chloromethane	4.645	50	53151	5.149	ppbV	100
7) Freon-114	4.793	85	131602	5.174	ppbV	99
8) methanol	4.921	31	123897	25.766	ppbV	90
9) vinyl chloride	4.961	62	53026	5.166	ppbV	94
10) 1,3-butadiene	5.158	54	40110	4.986	ppbV	96
11) butane	5.237	43	94320	5.112	ppbV	100
12) acetaldehyde	4.833	29	196800	26.263	ppbV	99
13) bromomethane	5.534	94	43557	4.959	ppbV	94
14) chloroethane	5.790	64	24785	5.065	ppbV	100
15) ethanol	6.022	31	240933	25.944	ppbV	99
16) dichlorofluoromethane	5.942	67	108998	5.095	ppbV	96
17) vinyl bromide	6.270	106	43934	5.179	ppbV	98
18) acrolein	6.461	56	22965	5.168	ppbV #	82
19) acetone	6.645	43	460597	25.270	ppbV	98
20) acetonitrile	6.294	41	57179	5.182	ppbV	93
21) trichlorofluoromethane	6.837	101	124247	5.103	ppbV	97
22) isopropyl alcohol	7.013	45	255613	12.816	ppbV	100
23) acrylonitrile	7.261	53	39069M6	4.882	ppbV	
24) pentane	7.309	43	103883M4	5.207	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:28:50 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.381	31	90194	5.140	ppbV	98
26) 1,1-dichloroethene	7.660	61	94177	5.156	ppbV	96
27) tertiary butyl alcohol	7.812	59	119272	5.078	ppbV	99
28) methylene chloride	7.828	49	76412	5.138	ppbV	100
29) 3-chloropropene	7.972	41	88594	5.086	ppbV	98
30) carbon disulfide	8.156	76	148949	4.914	ppbV	97
31) Freon 113	8.164	101	104672	5.006	ppbV	98
32) trans-1,2-dichloroethene	8.974	61	89447	5.037	ppbV	98
33) 1,1-dichloroethane	9.214	63	103743	5.076	ppbV	97
34) MTBE	9.317	73	150306	5.104	ppbV	98
35) vinyl acetate	9.420	43	128234M4	4.664	ppbV	
36) 2-butanone	9.709	43	139978	4.909	ppbV	99
37) cis-1,2-dichloroethene	10.189	61	80597	5.098	ppbV	98
38) Ethyl Acetate	10.480	61	17766	4.946	ppbV	89
39) chloroform	10.527	83	109935	5.067	ppbV	98
40) Tetrahydrofuran	11.015	42	82732M6	4.991	ppbV	
41) 2,2-dichloropropane	10.555	77	101403	4.991	ppbV	99
42) 1,2-dichloroethane	11.363	62	81766	4.987	ppbV	98
44) hexane	10.433	57	92181	4.979	ppbV	81
45) diisopropyl ether	10.452	87	40168	4.975	ppbV	93
46) tert-butyl ethyl ether	11.053	59	187522	5.089	ppbV	97
48) 1,1,1-trichloroethane	11.639	97	127459	5.025	ppbV	97
49) 1,1-dichloropropene	11.989	75	83508	5.085	ppbV	99
50) benzene	12.159	78	161893	5.132	ppbV	99
51) thiophene	12.308	84	105296	4.968	ppbV	99
52) carbon tetrachloride	12.318	117	119736	5.093	ppbV	98
53) cyclohexane	12.456	56	98238	5.085	ppbV	97
54) tert-amyl methyl ether	12.828	73	160687	5.120	ppbV	99
55) dibromomethane	13.041	93	65795	4.916	ppbV	98
56) 1,2-dichloropropane	13.072	63	65763	5.094	ppbV	99
57) bromodichloromethane	13.285	83	128246M6	5.130	ppbV	
58) 1,4-dioxane	13.359	88	37170	5.025	ppbV #	61
59) trichloroethene	13.327	130	71812	5.162	ppbV	99
60) 2,2,4-trimethylpentane	13.359	57	315462	5.134	ppbV	99
61) methyl methacrylate	13.550	41	97489	5.059	ppbV	98
62) heptane	13.657	43	133758	5.024	ppbV	99
63) cis-1,3-dichloropropene	14.292	75	88743	4.855	ppbV	97
64) 4-methyl-2-pentanone	14.339	43	180867M4	4.990	ppbV	
65) trans-1,3-dichloropropene	14.867	75	124845	4.810	ppbV	98
66) 1,1,2-trichloroethane	15.047	97	92675	5.058	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:28:50 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.328	91	285324	4.972	ppbV	99
70) 2-methylthiophene	15.391	97	234066	4.932	ppbV	99
71) 1,3-dichloropropane	15.346	76	130554	5.060	ppbV	99
72) 2-hexanone	15.572	43	234246M4	4.809	ppbV	
73) 3-methylthiophene	15.562	97	243402	5.018	ppbV	97
74) dibromochloromethane	15.734	129	185574	4.950	ppbV	99
75) 1,2-dibromoethane	15.960	107	149423	4.910	ppbV	97
76) butyl acetate	16.141	73	30349	4.910	ppbV	98
77) octane	16.204	85	83201	4.931	ppbV	96
78) tetrachloroethene	16.358	166	129887	5.021	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.910	131	85713	4.966	ppbV	99
80) chlorobenzene	16.925	112	157505	4.996	ppbV	98
81) ethylbenzene	17.215	91	257782	4.991	ppbV	99
82) 2-ethylthiophene	17.253	97	203166	4.923	ppbV	99
83) m+p-xylene	17.348	91	402092	9.957	ppbV	100
84) bromoform	17.439	173	122061	4.841	ppbV	98
85) styrene	17.634	104	153356	4.866	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.715	83	152847	4.962	ppbV	99
87) o-xylene	17.720	91	208736	5.017	ppbV	100
88) 1,2,3-trichloropropane	17.815	75	123943	4.991	ppbV	99
89) nonane	17.853	43	196140	5.041	ppbV	99
91) isopropylbenzene	18.153	105	281583	5.028	ppbV	100
92) bromobenzene	18.239	77	155012	4.982	ppbV	98
93) 2-chlorotoluene	18.515	126	73730	4.993	ppbV	95
94) n-propylbenzene	18.529	120	78239	4.890	ppbV	95
95) 4-chlorotoluene	18.568	91	232551	5.056	ppbV	99
96) 4-ethyl toluene	18.634	105	311445M6	5.005	ppbV	
97) 1,3,5-trimethylbenzene	18.687	105	250930	4.950	ppbV	98
98) tert-butylbenzene	18.992	119	264949	5.114	ppbV	99
99) 1,2,4-trimethylbenzene	18.992	105	251737	5.033	ppbV	99
100) decane	19.030	57	189837	4.996	ppbV	96
101) Benzyl Chloride	19.111	91	234884	4.852	ppbV	98
102) 1,3-dichlorobenzene	19.125	146	168714	5.003	ppbV	99
103) 1,4-dichlorobenzene	19.173	146	175831	5.109	ppbV	98
104) sec-butylbenzene	19.192	105	370711	5.122	ppbV	99
105) 1,2,3-trimethylbenzene	19.316	105	229607	5.022	ppbV	97
106) p-isopropyltoluene	19.301	119	329443	5.007	ppbV	99
107) 1,2-dichlorobenzene	19.435	146	164823	5.016	ppbV	97
108) n-butylbenzene	19.620	91	312563	5.008	ppbV	98
109) indan	19.477	117	251890	5.134	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD5.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:28:50 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

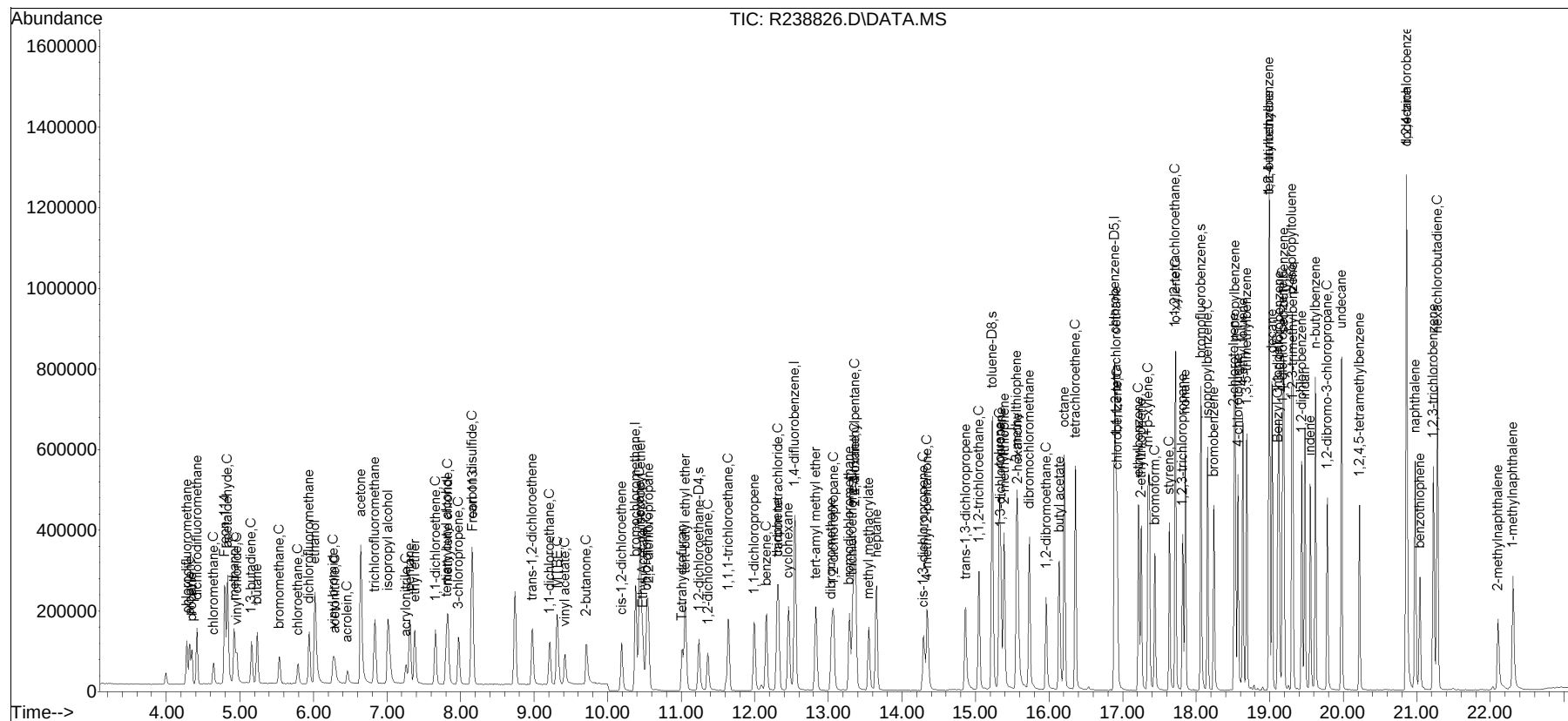
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.549	115	201801	4.935	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.782	75	88653	4.820	ppbV	96
112)	undecane	19.977	57	222714	4.959	ppbV	97
113)	1,2,4,5-tetramethylben...	20.220	119	186996	5.060	ppbV	98
114)	dodecane	20.859	57	245654	4.820	ppbV	96
115)	1,2,4-trichlorobenzene	20.859	180	152578	4.958	ppbV	99
116)	naphthalene	20.977	128	373822	5.021	ppbV	99
117)	1,2,3-trichlorobenzene	21.223	180	147992	4.973	ppbV	97
118)	benzothiophene	21.041	134	178540	4.993	ppbV	99
119)	hexachlorobutadiene	21.277	225	127654	4.930	ppbV	97
120)	2-methylnaphthalene	22.102	142	102846	4.605	ppbV	97
121)	1-methylnaphthalene	22.306	142	155667M4	4.965	ppbV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238826.D
Acq On    : 8 Feb 2016    1:22 am
Operator  : AIRPIAN02:MB
Sample    : IT015-SIMSTD5.0
Misc      : WG863495
ALS Vial  : 7    Sample Multiplier: 1
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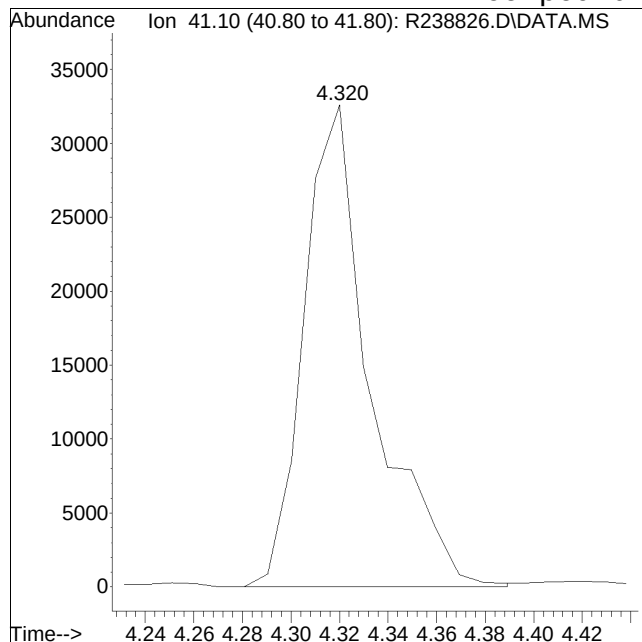
Quant Time: Feb 08 06:28:50 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

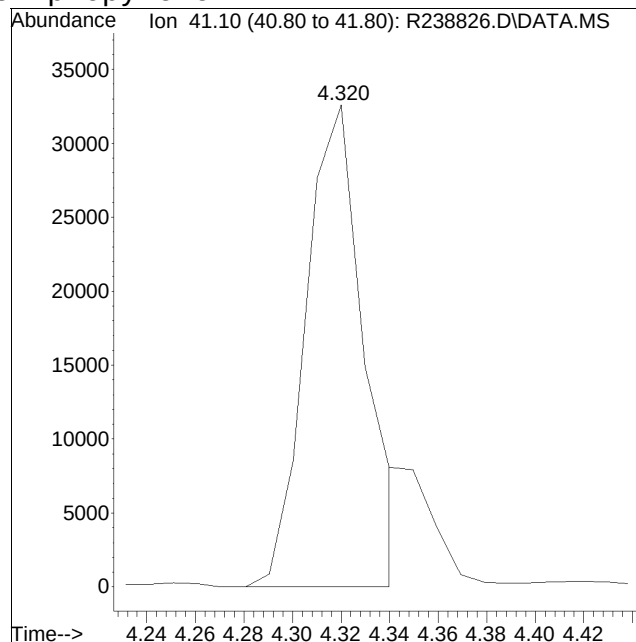
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 62714

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

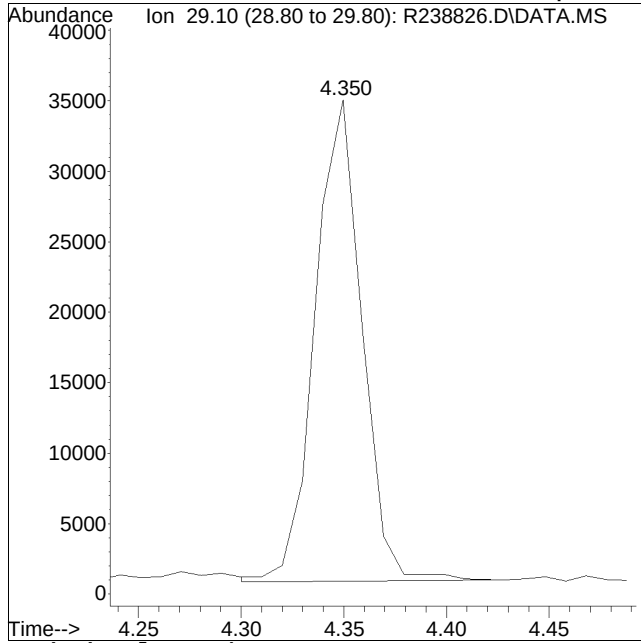


Manual Peak Response = 54816 M6

Manual Integration/Negative Proof Report

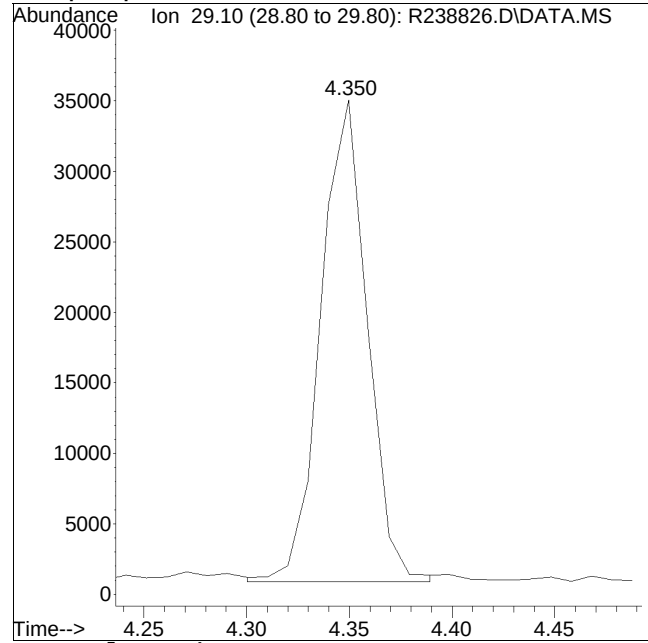
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238826.D
Date Inj'd : 2/8/2016 1:22 am
Sample : IT015-SIMSTD5.0
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 54080

M4 = Poor automated baseline construction.

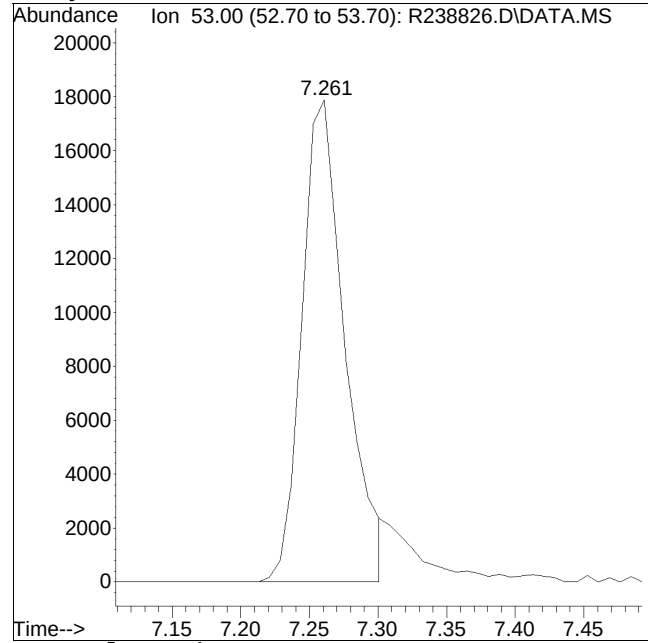
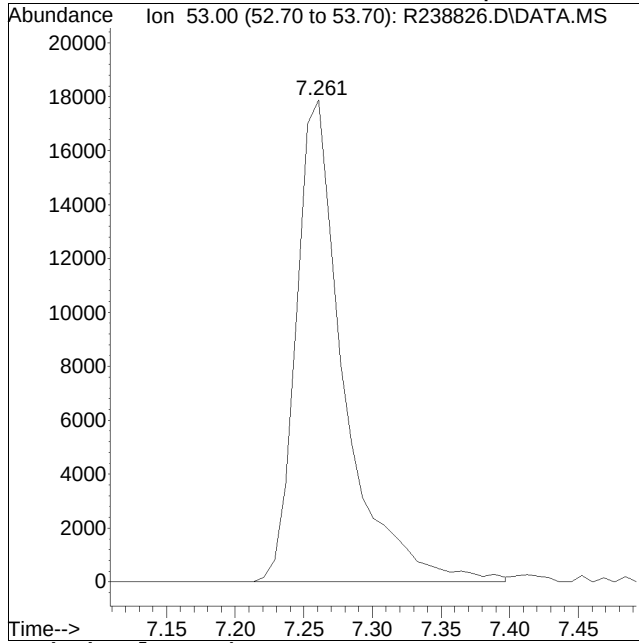


Manual Peak Response = 53914 M4

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #23: acrylonitrile

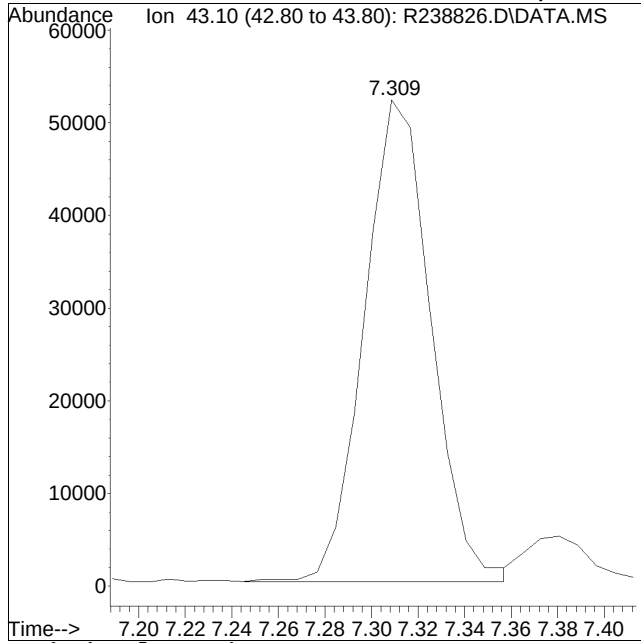


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

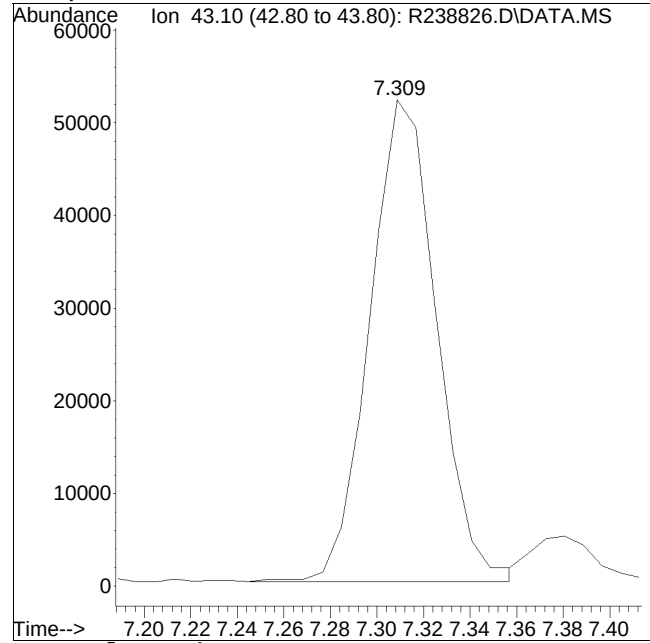
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238826.D
Date Inj'd : 2/8/2016 1:22 am
Sample : IT015-SIMSTD5.0
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 6:10 am

Compound #24: pentane



Original Peak Response = 103712



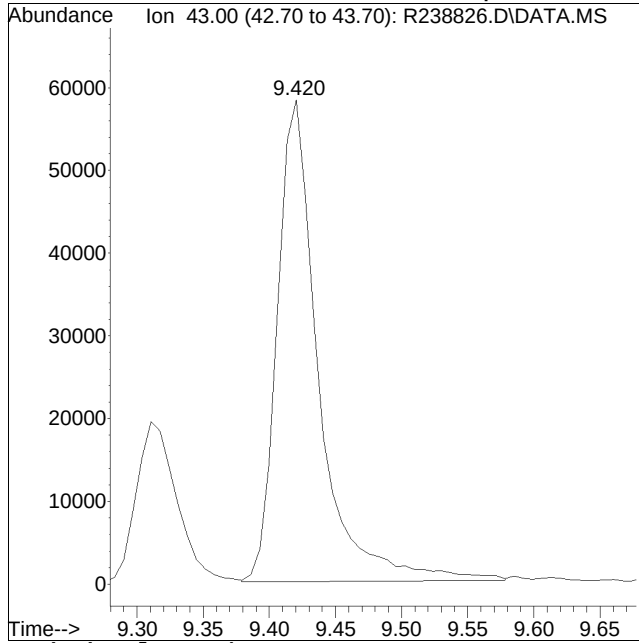
Manual Peak Response = 103883 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

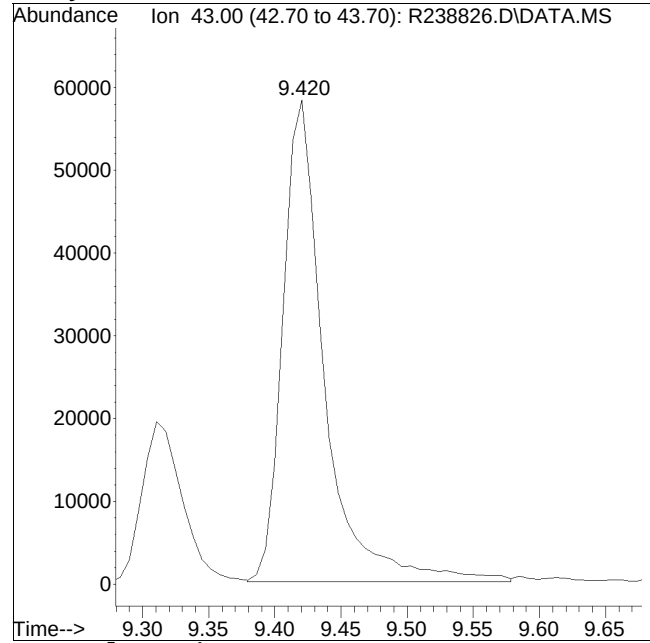
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #35: vinyl acetate



Original Peak Response = 127088

M4 = Poor automated baseline construction.

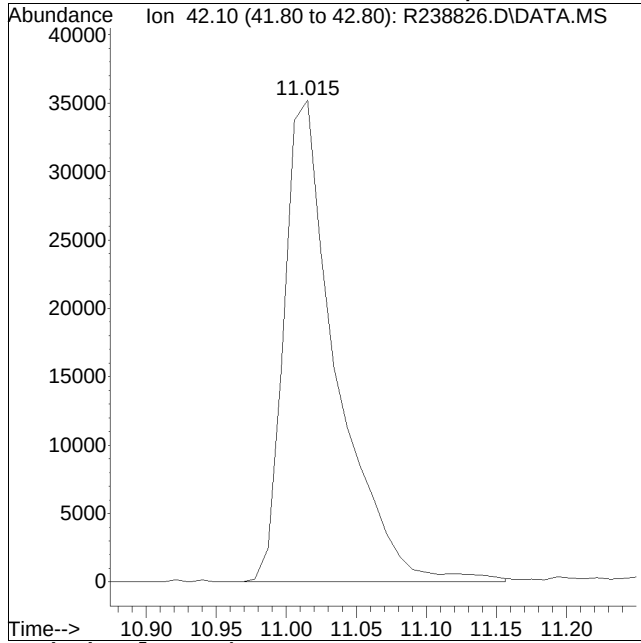


Manual Peak Response = 128234 M4

Manual Integration/Negative Proof Report

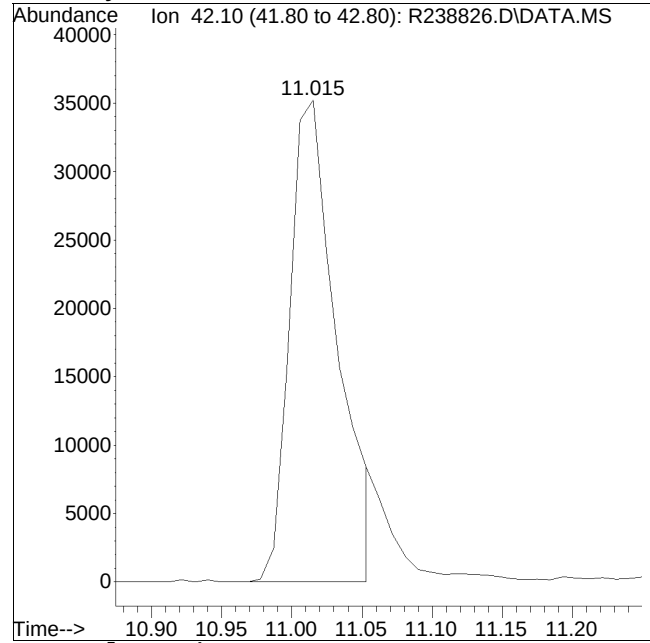
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 91789

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

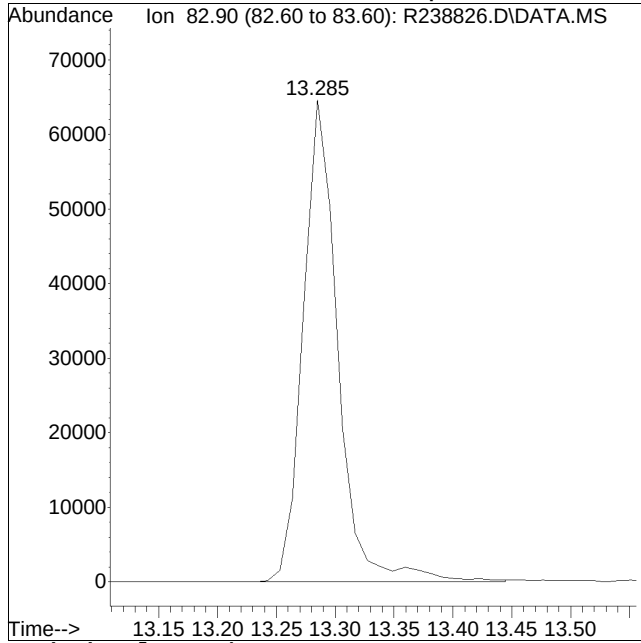


Manual Peak Response = 82732 M6

Manual Integration/Negative Proof Report

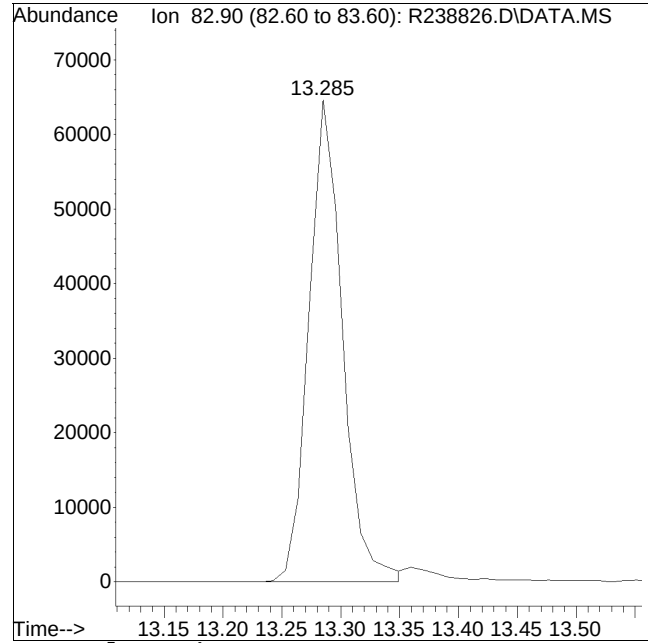
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #57: bromodichloromethane



Original Peak Response = 132844

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

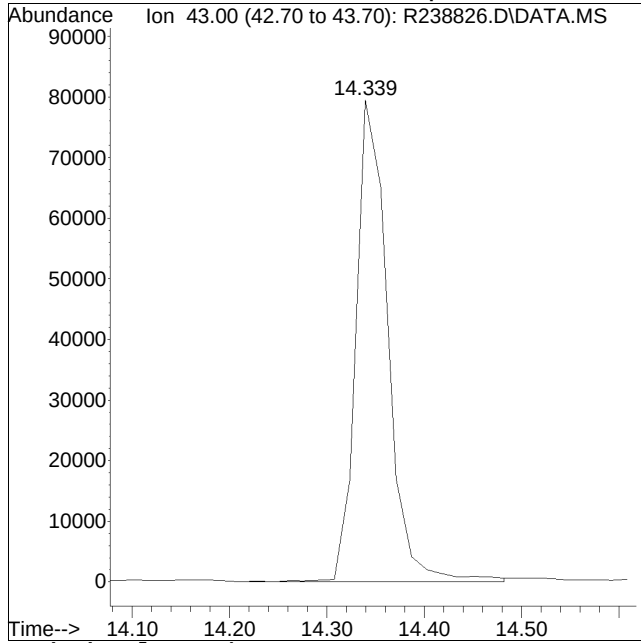


Manual Peak Response = 128246 M6

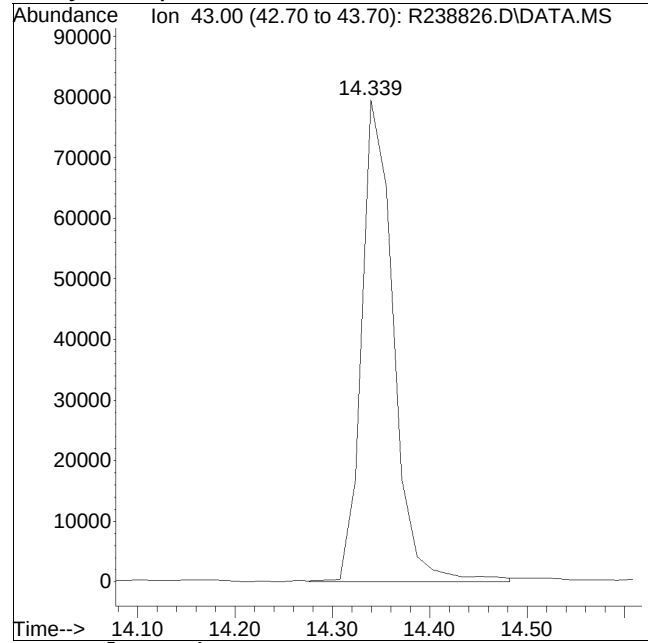
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 181429



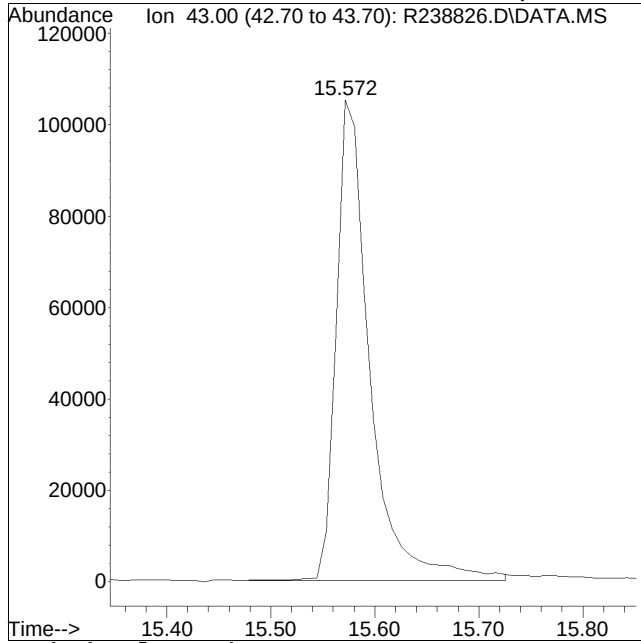
Manual Peak Response = 180867 M4

M4 = Poor automated baseline construction.

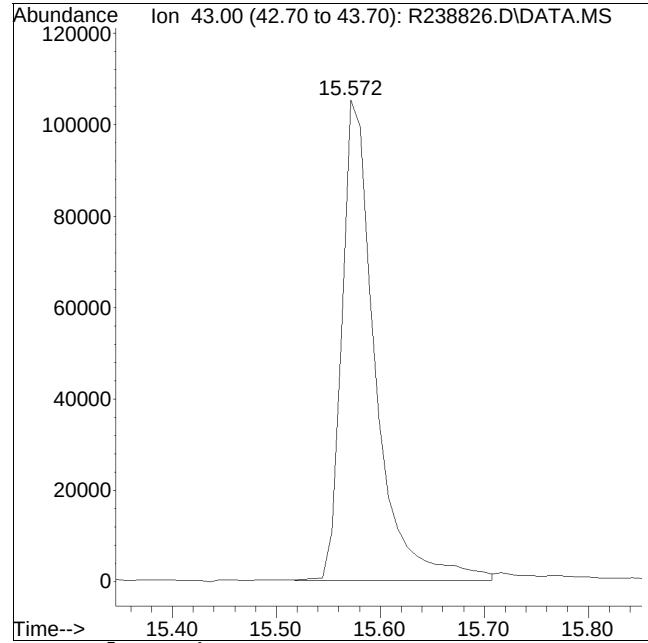
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #72: 2-hexanone



Original Peak Response = 236927



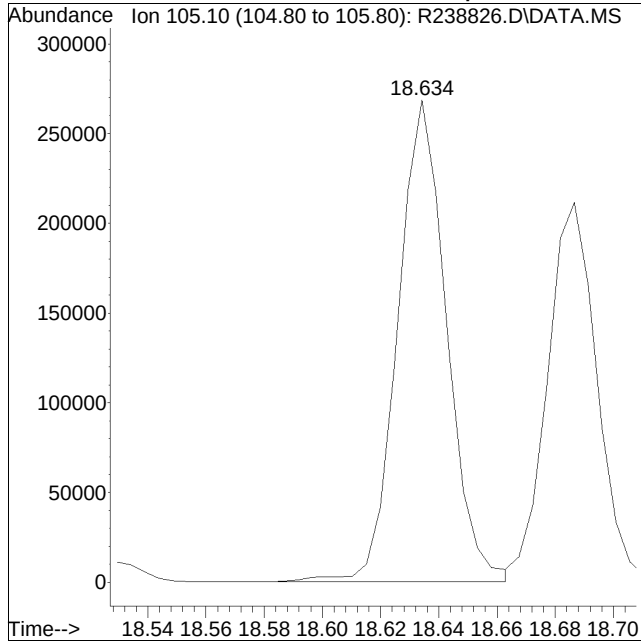
Manual Peak Response = 234246 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

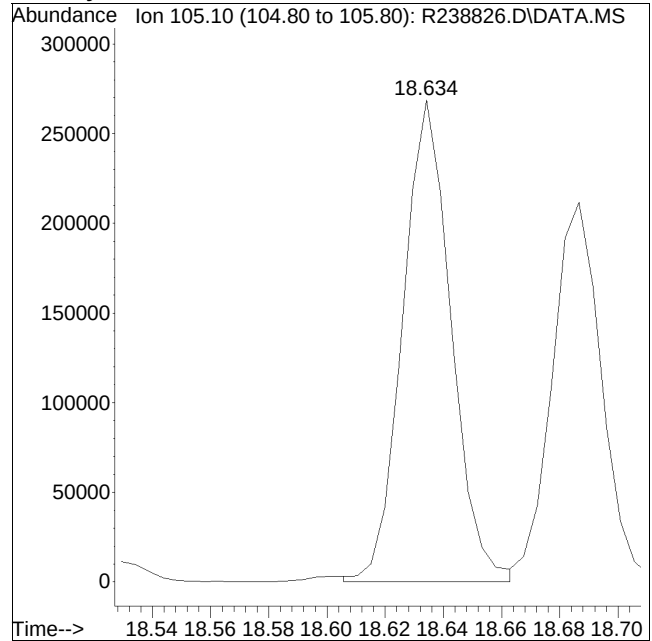
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 313748

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

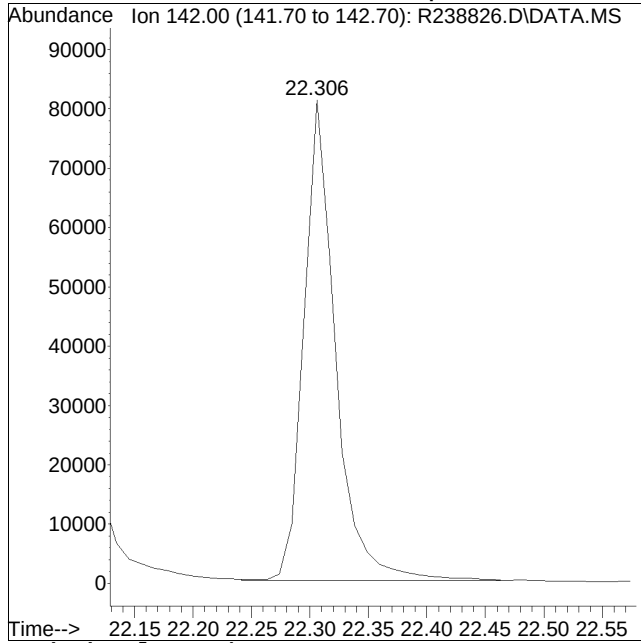


Manual Peak Response = 311445 M6

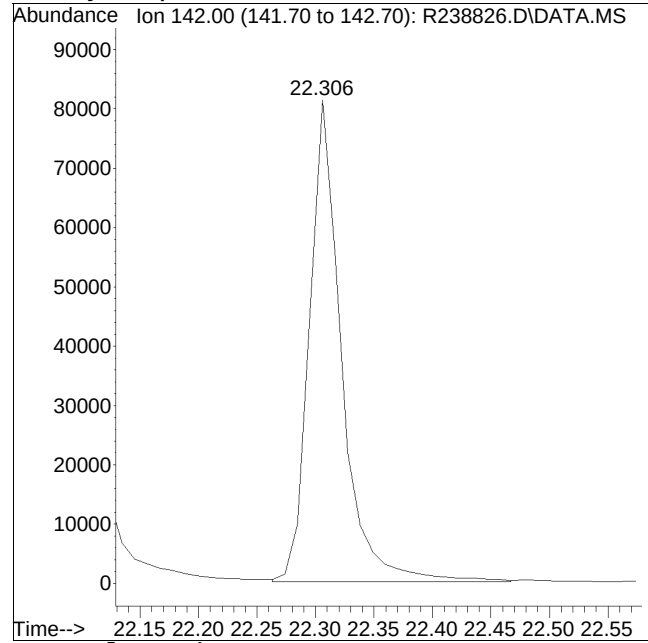
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238826.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/8/2016 6:10 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 153361



Manual Peak Response = 155667 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:09:04 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 09:30:39 2015
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	162333	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	100.00%		
43) 1,4-difluorobenzene	12.541	114	355895	10.000	ppbV	0.00
Standard Area = 355895			Recovery =	100.00%		
67) chlorobenzene-D5	16.891	54	89202	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.240	65	100156	10.323	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.23%		
69) toluene-D8	15.228	98	394421	8.698	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.98%		
90) bromofluorobenzene	18.063	95	196401	8.997	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.97%		
Target Compounds					Qvalue	
2) chlorodifluoromethane	4.280	51	189214	8.865	ppbV	97
3) propylene	4.310	41	104212M6	9.327	ppbV	
4) propane	4.349	29	102496	9.441	ppbV	92
5) dichlorodifluoromethane	4.418	85	205731	8.565	ppbV	98
6) chloromethane	4.645	50	103383	8.489	ppbV	97
7) Freon-114	4.793	85	254730	7.507	ppbV	96
8) methanol	4.911	31	240804	57.765	ppbV	98
9) vinyl chloride	4.961	62	102797	7.926	ppbV	96
10) 1,3-butadiene	5.158	54	80568	8.017	ppbV	83
11) butane	5.237	43	184804	8.870	ppbV	98
12) acetaldehyde	4.823	29	375252	53.679	ppbV	87
13) bromomethane	5.534	94	87965	7.209	ppbV	98
14) chloroethane	5.790	64	49009	7.652	ppbV	99
15) ethanol	6.014	31	465046	44.922	ppbV	88
16) dichlorofluoromethane	5.942	67	214265	7.918	ppbV	98
17) vinyl bromide	6.269	106	84955	6.893	ppbV	98
18) acrolein	6.453	56	44508	8.669	ppbV #	88
19) acetone	6.629	43	912773	46.561	ppbV	92
20) acetonitrile	6.285	41	110521	9.561	ppbV	99
21) trichlorofluoromethane	6.837	101	243875	7.724	ppbV	99
22) isopropyl alcohol	7.005	45	499380	22.323	ppbV	99
23) acrylonitrile	7.253	53	80152M6	7.933	ppbV	
24) pentane	7.309	43	199817M4	8.760	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:09:04 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 09:30:39 2015
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.373	31	175752	10.637	ppbV	# 84
26) 1,1-dichloroethene	7.660	61	182947	8.377	ppbV	97
27) tertiary butyl alcohol	7.788	59	235263	8.665	ppbV	95
28) methylene chloride	7.828	49	148952	8.945	ppbV	88
29) 3-chloropropene	7.972	41	174452	9.511	ppbV	95
30) carbon disulfide	8.148	76	303584	8.400	ppbV	92
31) Freon 113	8.156	101	209401	8.016	ppbV	94
32) trans-1,2-dichloroethene	8.974	61	177855	8.693	ppbV	96
33) 1,1-dichloroethane	9.214	63	204696	8.542	ppbV	100
34) MTBE	9.304	73	294963	8.439	ppbV	97
35) vinyl acetate	9.413	43	275385	11.859	ppbV	100
36) 2-butanone	9.702	43	285595	9.709	ppbV	95
37) cis-1,2-dichloroethene	10.189	61	158327	8.796	ppbV	92
38) Ethyl Acetate	10.470	61	35972	8.302	ppbV	72
39) chloroform	10.527	83	217279	8.137	ppbV	93
40) Tetrahydrofuran	10.996	42	166005M6	9.548	ppbV	
41) 2,2-dichloropropane	10.555	77	203502	8.720	ppbV	92
42) 1,2-dichloroethane	11.362	62	164218	8.889	ppbV	98
44) hexane	10.433	57	184264	10.213	ppbV	92
45) diisopropyl ether	10.442	87	80364	9.141	ppbV	# 66
46) tert-butyl ethyl ether	11.053	59	366761	10.219	ppbV	98
48) 1,1,1-trichloroethane	11.638	97	252467	9.767	ppbV	98
49) 1,1-dichloropropene	11.989	75	163454	10.028	ppbV	87
50) benzene	12.159	78	313966	9.486	ppbV	96
51) thiophene	12.308	84	210947	9.614	ppbV	92
52) carbon tetrachloride	12.318	117	233968	10.281	ppbV	96
53) cyclohexane	12.456	56	192274	10.082	ppbV	95
54) tert-amyl methyl ether	12.817	73	312328	9.997	ppbV	95
55) dibromomethane	13.040	93	133211	9.712	ppbV	95
56) 1,2-dichloropropane	13.072	63	128477	10.090	ppbV	95
57) bromodichloromethane	13.285	83	248809M6	9.859	ppbV	
58) 1,4-dioxane	13.338	88	73625	9.491	ppbV	95
59) trichloroethene	13.327	130	138466	9.197	ppbV	98
60) 2,2,4-trimethylpentane	13.359	57	611571	10.363	ppbV	94
61) methyl methacrylate	13.540	41	191783	11.143	ppbV	# 89
62) heptane	13.646	43	264996	11.402	ppbV	91
63) cis-1,3-dichloropropene	14.292	75	181933	10.650	ppbV	95
64) 4-methyl-2-pentanone	14.339	43	360730	11.793	ppbV	# 95
65) trans-1,3-dichloropropene	14.857	75	258315	10.524	ppbV	97
66) 1,1,2-trichloroethane	15.047	97	182362	9.602	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:09:04 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 09:30:39 2015
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.327	91	564621	8.701	ppbV	100
70) 2-methylthiophene	15.391	97	466966	8.712	ppbV	97
71) 1,3-dichloropropane	15.345	76	253885	8.895	ppbV	94
72) 2-hexanone	15.562	43	479324	10.690	ppbV #	93
73) 3-methylthiophene	15.562	97	477304	8.606	ppbV	97
74) dibromochloromethane	15.734	129	368857	9.419	ppbV	99
75) 1,2-dibromoethane	15.960	107	299462	8.693	ppbV	99
76) butyl acetate	16.132	73	60825	9.335	ppbV	84
77) octane	16.204	85	166031	9.169	ppbV	82
78) tetrachloroethene	16.358	166	254531	8.220	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.910	131	169820	9.065	ppbV	99
80) chlorobenzene	16.925	112	310236	8.672	ppbV	96
81) ethylbenzene	17.215	91	508248	8.838	ppbV	99
82) 2-ethylthiophene	17.253	97	406084	8.839	ppbV	96
83) m+p-xylene	17.348	91	794690	17.728	ppbV	98
84) bromoform	17.439	173	248079	9.586	ppbV	99
85) styrene	17.634	104	310098	8.853	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.715	83	303102	9.282	ppbV	98
87) o-xylene	17.720	91	409404	8.996	ppbV	98
88) 1,2,3-trichloropropane	17.815	75	244365	9.273	ppbV	93
89) nonane	17.853	43	382886	10.674	ppbV #	90
91) isopropylbenzene	18.153	105	551001	8.835	ppbV	98
92) bromobenzene	18.239	77	306157	9.381	ppbV	88
93) 2-chlorotoluene	18.515	126	145297	8.693	ppbV	95
94) n-propylbenzene	18.529	120	157420	8.818	ppbV	90
95) 4-chlorotoluene	18.567	91	452534	9.108	ppbV	98
96) 4-ethyl toluene	18.634	105	612312M6	9.007	ppbV	
97) 1,3,5-trimethylbenzene	18.686	105	498787	9.000	ppbV	97
98) tert-butylbenzene	18.992	119	509785	9.125	ppbV	98
99) 1,2,4-trimethylbenzene	18.992	105	492130	9.453	ppbV	97
100) decane	19.030	57	373889	10.015	ppbV	89
101) Benzyl Chloride	19.106	91	476341	9.456	ppbV	96
102) 1,3-dichlorobenzene	19.125	146	331786	8.986	ppbV	96
103) 1,4-dichlorobenzene	19.173	146	338620	8.878	ppbV	94
104) sec-butylbenzene	19.192	105	712180	9.160	ppbV	100
105) 1,2,3-trimethylbenzene	19.311	105	449837	9.264	ppbV	98
106) p-isopropyltoluene	19.301	119	647352	9.371	ppbV	96
107) 1,2-dichlorobenzene	19.434	146	323349	9.023	ppbV	95
108) n-butylbenzene	19.620	91	614093	9.456	ppbV	98
109) indan	19.477	117	482754	9.185	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD10.0
 Misc : WG863495
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 08 06:09:04 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 09:30:39 2015
 Response via : Initial Calibration

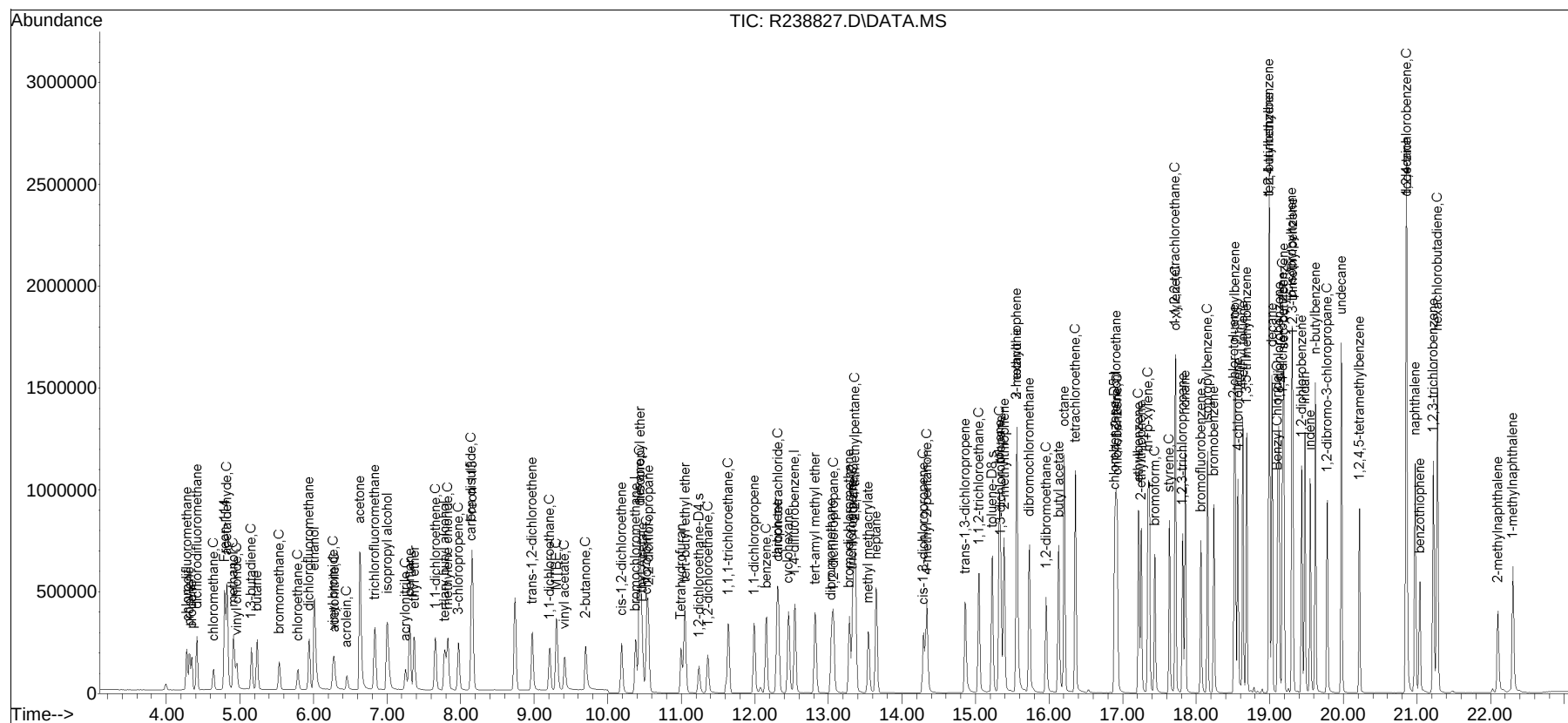
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.549	115	402320	12.451	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.782	75	180966	10.110	ppbV	90
112)	undecane	19.972	57	441929	10.688	ppbV	93
113)	1,2,4,5-tetramethylben...	20.220	119	363654	4.070	ppbV	99
114)	dodecane	20.859	57	501456	11.994	ppbV	90
115)	1,2,4-trichlorobenzene	20.859	180	302830	10.394	ppbV	97
116)	naphthalene	20.977	128	732559	9.851	ppbV	100
117)	1,2,3-trichlorobenzene	21.223	180	292791	9.389	ppbV	96
118)	benzothiophene	21.041	134	351819	5.054	ppbV	99
119)	hexachlorobutadiene	21.277	225	254777	9.852	ppbV	97
120)	2-methylnaphthalene	22.102	142	219767	6.307	ppbV	97
121)	1-methylnaphthalene	22.306	142	308508	10.601	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238827.D
Acq On    : 8 Feb 2016    1:57 am
Operator  : AIRPIAN02:MB
Sample    : IT015-SIMSTD10.0
Misc      : WG863495
ALS Vial  : 7    Sample Multiplier: 1
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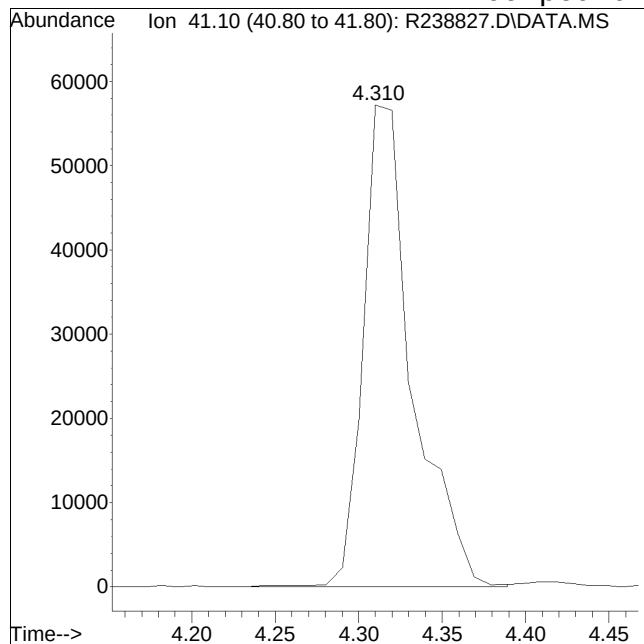
Quant Time: Feb 08 06:09:04 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Nov 18 09:30:39 2015
Response via : Initial Calibration



Manual Integration/Negative Proof Report

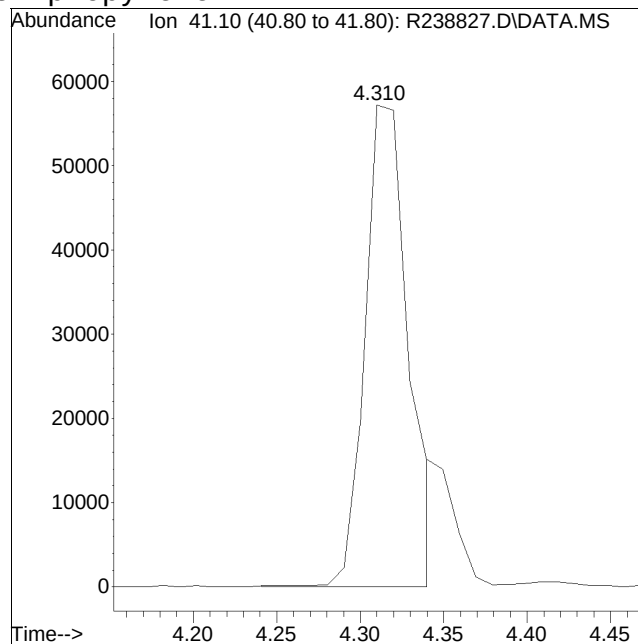
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #3: propylene



Original Peak Response = 117400

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

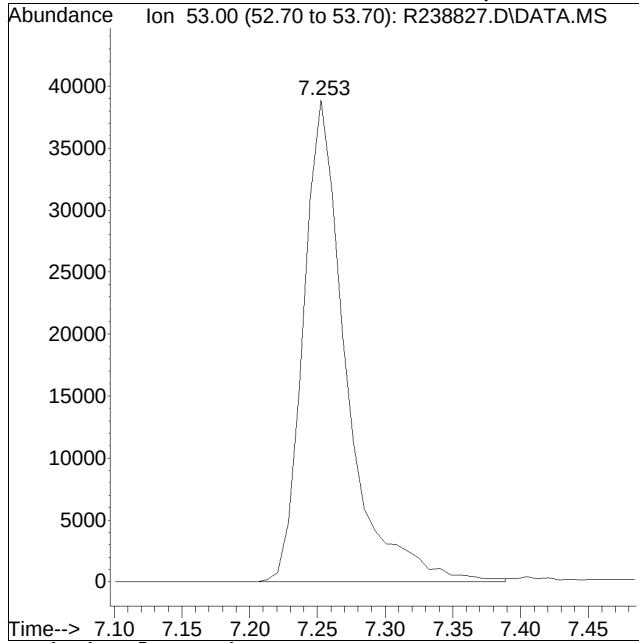


Manual Peak Response = 104212 M6

Manual Integration/Negative Proof Report

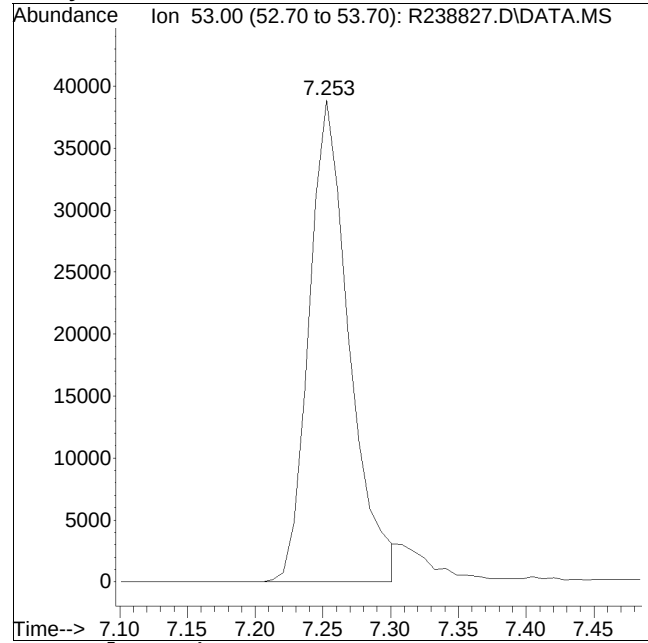
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #23: acrylonitrile



Original Peak Response = 85884

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

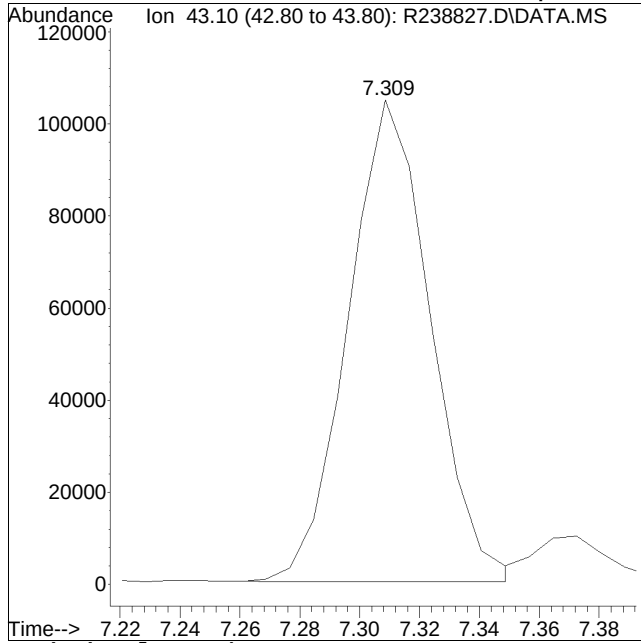


Manual Peak Response = 80152 M6

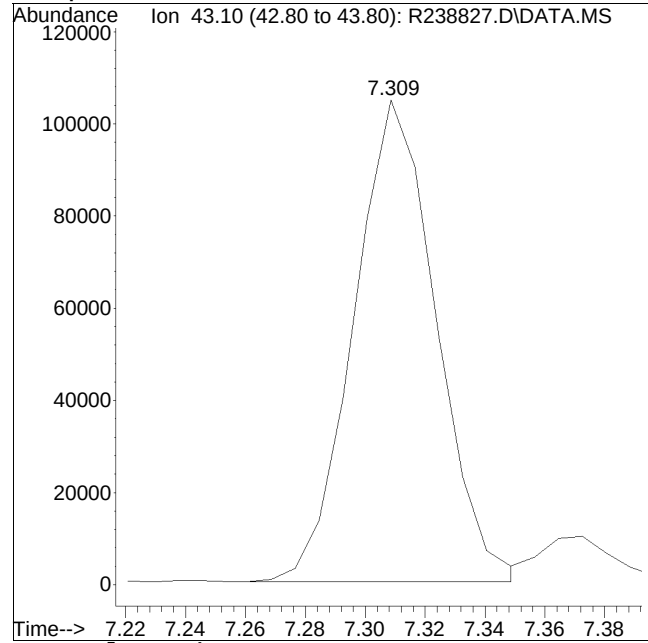
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #24: pentane



Original Peak Response = 199828



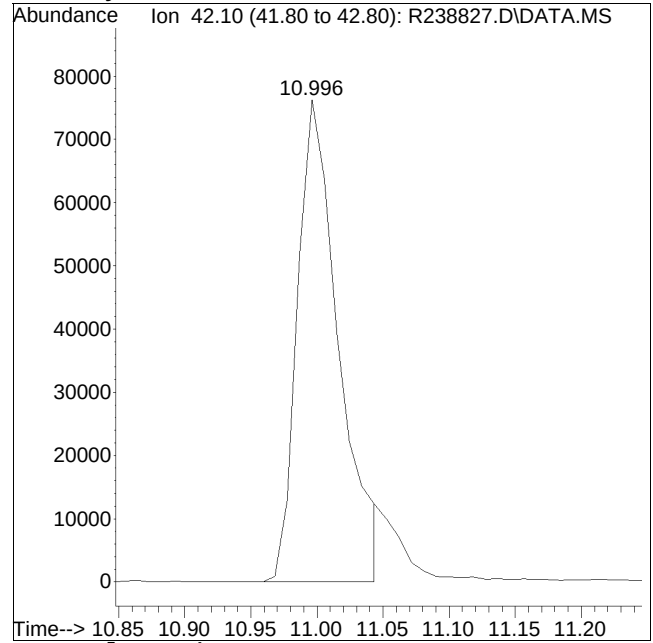
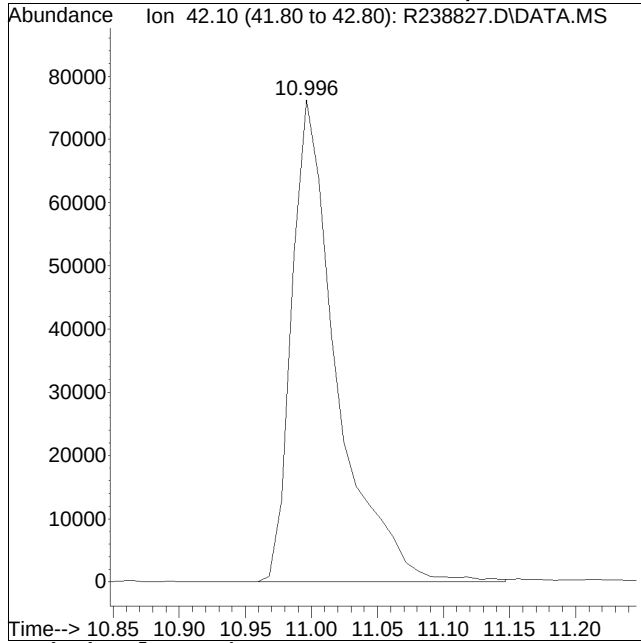
Manual Peak Response = 199817 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #40: Tetrahydrofuran

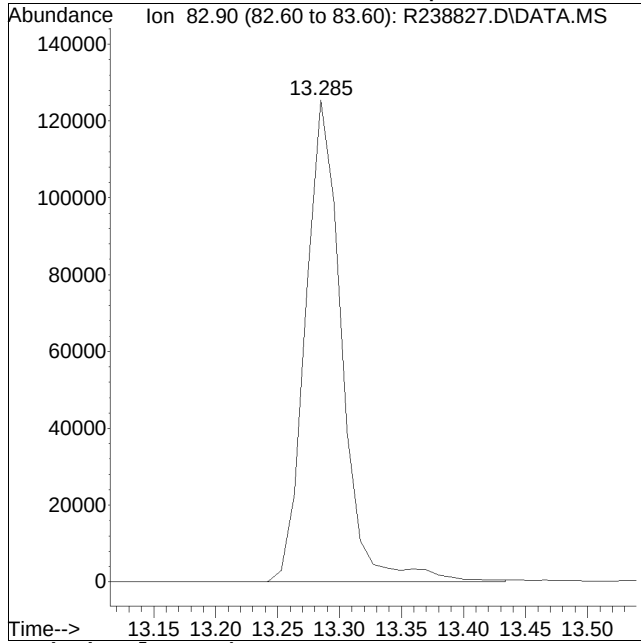


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

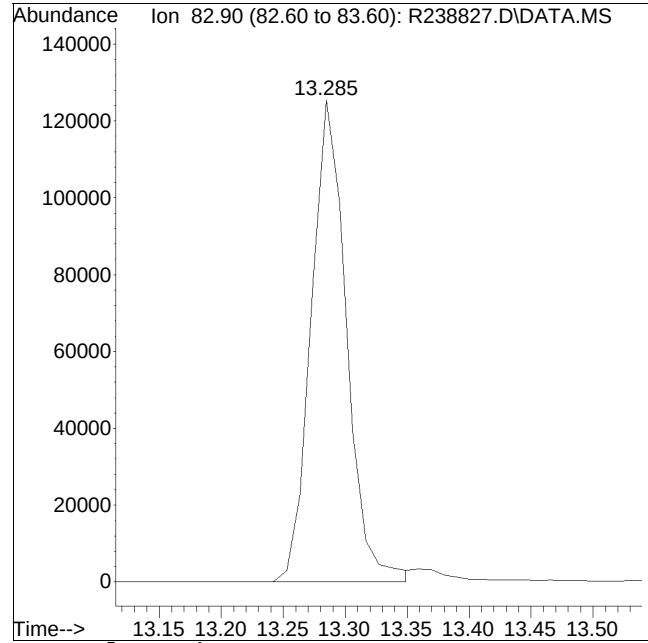
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #57: bromodichloromethane



Original Peak Response = 256406

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

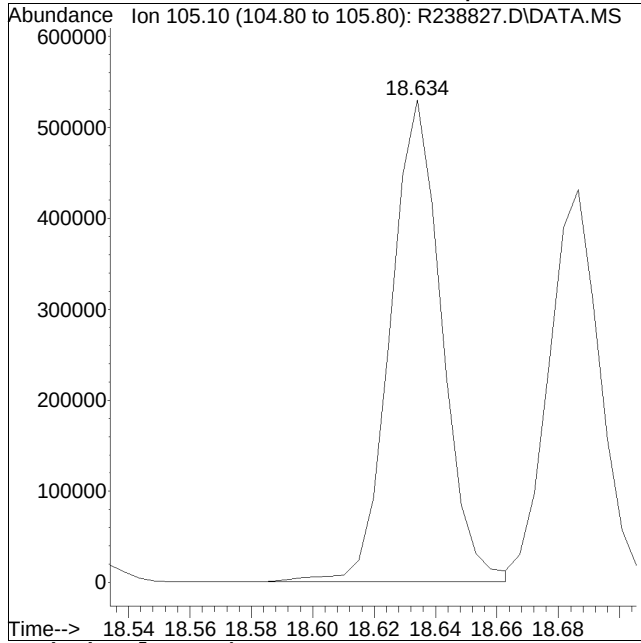


Manual Peak Response = 248809 M6

Manual Integration/Negative Proof Report

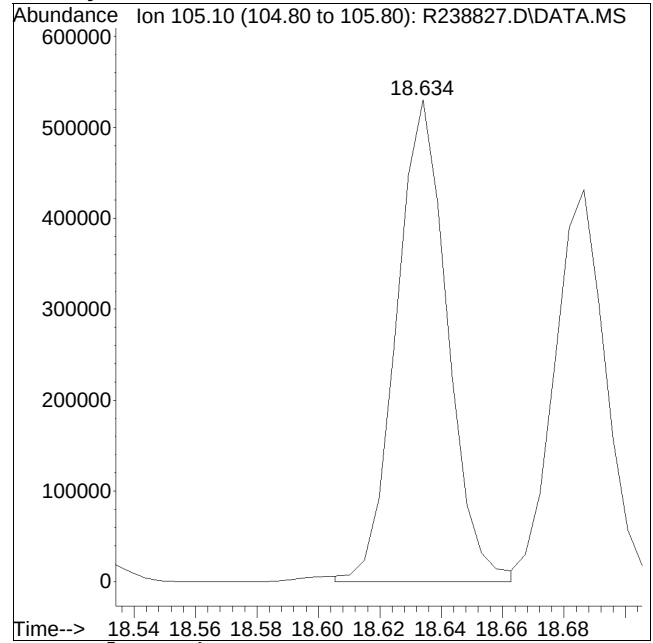
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238827.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/8/2016 6:06 am

Compound #96: 4-ethyl toluene



Original Peak Response = 617267

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 612312 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:31:18 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.386	49	165715	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	102.08%		
43) 1,4-difluorobenzene	12.552	114	351584	10.000	ppbV	0.01
Standard Area = 355895			Recovery =	98.79%		
67) chlorobenzene-D5	16.892	54	88668	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	99.40%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.241	65	99182	10.024	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.24%		
69) toluene-D8	15.228	98	397620	10.142	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.42%		
90) bromofluorobenzene	18.063	95	197751	10.129	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.29%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.271	51	393091	20.351	ppbV	100
3) propylene	4.310	41	223480M6	21.007	ppbV	
4) propane	4.340	29	218990M4	20.930	ppbV	
5) dichlorodifluoromethane	4.409	85	416163	19.816	ppbV	99
6) chloromethane	4.636	50	216476	20.512	ppbV	99
7) Freon-114	4.793	85	532463	20.476	ppbV	98
8) methanol	4.912	31	502839	102.278	ppbV	95
9) vinyl chloride	4.951	62	215907	20.575	ppbV	95
10) 1,3-butadiene	5.158	54	167826	20.405	ppbV	98
11) butane	5.237	43	382513	20.276	ppbV	98
12) acetaldehyde	4.823	29	780679	101.898	ppbV	99
13) bromomethane	5.534	94	176318	19.635	ppbV	95
14) chloroethane	5.790	64	100227	20.033	ppbV	99
15) ethanol	6.014	31	983068	103.539	ppbV	99
16) dichlorofluoromethane	5.942	67	443090	20.257	ppbV	100
17) vinyl bromide	6.270	106	181650	20.946	ppbV	93
18) acrolein	6.454	56	92934	20.454	ppbV	97
19) acetone	6.629	43	1871211	100.410	ppbV	99
20) acetonitrile	6.286	41	224908	19.934	ppbV	99
21) trichlorofluoromethane	6.837	101	509723	20.474	ppbV	99
22) isopropyl alcohol	6.997	45	1035604	50.786	ppbV	99
23) acrylonitrile	7.253	53	166427M6	20.340	ppbV	
24) pentane	7.309	43	421213	20.650	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:31:18 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.365	31	361213	20.133	ppbV	99
26) 1,1-dichloroethene	7.661	61	384031	20.563	ppbV	99
27) tertiary butyl alcohol	7.772	59	495367	20.626	ppbV	98
28) methylene chloride	7.828	49	310354	20.411	ppbV	99
29) 3-chloropropene	7.972	41	364533	20.469	ppbV	99
30) carbon disulfide	8.148	76	627900	20.261	ppbV	97
31) Freon 113	8.156	101	428572	20.049	ppbV	99
32) trans-1,2-dichloroethene	8.974	61	368862	20.316	ppbV	99
33) 1,1-dichloroethane	9.215	63	423502	20.267	ppbV	100
34) MTBE	9.304	73	618729	20.548	ppbV	99
35) vinyl acetate	9.414	43	622919	22.158	ppbV	99
36) 2-butanone	9.695	43	605741	20.777	ppbV	99
37) cis-1,2-dichloroethene	10.189	61	332300	20.560	ppbV	99
38) Ethyl Acetate	10.471	61	79079	21.535	ppbV	98
39) chloroform	10.536	83	455294	20.527	ppbV	99
40) Tetrahydrofuran	10.987	42	342872M6	20.233	ppbV	
41) 2,2-dichloropropane	10.555	77	420614	20.247	ppbV	98
42) 1,2-dichloroethane	11.363	62	337757	20.148	ppbV	98
44) hexane	10.433	57	384941	21.147	ppbV	96
45) diisopropyl ether	10.443	87	167264	21.069	ppbV	95
46) tert-butyl ethyl ether	11.043	59	761423	21.015	ppbV	99
48) 1,1,1-trichloroethane	11.639	97	521904	20.926	ppbV	99
49) 1,1-dichloropropene	12.000	75	339611	21.032	ppbV	99
50) benzene	12.159	78	668521	21.554	ppbV	100
51) thiophene	12.308	84	438870	21.060	ppbV	97
52) carbon tetrachloride	12.318	117	491425	21.261	ppbV	98
53) cyclohexane	12.457	56	397020	20.902	ppbV	100
54) tert-amyl methyl ether	12.818	73	655945	21.259	ppbV	98
55) dibromomethane	13.041	93	273641	20.794	ppbV	99
56) 1,2-dichloropropane	13.073	63	268914	21.188	ppbV	98
57) bromodichloromethane	13.285	83	534022M6	21.726	ppbV	
58) 1,4-dioxane	13.338	88	156082	21.460	ppbV	98
59) trichloroethene	13.338	130	284032	20.764	ppbV	96
60) 2,2,4-trimethylpentane	13.370	57	1279725	21.182	ppbV	100
61) methyl methacrylate	13.540	41	399815	21.103	ppbV	99
62) heptane	13.657	43	548781	20.963	ppbV	99
63) cis-1,3-dichloropropene	14.292	75	377431	21.000	ppbV	97
64) 4-methyl-2-pentanone	14.339	43	742883	20.846	ppbV	100
65) trans-1,3-dichloropropene	14.867	75	543713	21.307	ppbV	99
66) 1,1,2-trichloroethane	15.047	97	377970	20.980	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:31:18 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.328	91	1163395	20.729	ppbV	98
70) 2-methylthiophene	15.391	97	961701	20.719	ppbV	97
71) 1,3-dichloropropane	15.346	76	522903	20.720	ppbV	96
72) 2-hexanone	15.563	43	987872	20.734	ppbV	100
73) 3-methylthiophene	15.563	97	978705	20.628	ppbV	99
74) dibromochloromethane	15.734	129	769455	20.986	ppbV	100
75) 1,2-dibromoethane	15.960	107	617003	20.728	ppbV	98
76) butyl acetate	16.123	73	124491	20.590	ppbV	94
77) octane	16.204	85	333436	20.204	ppbV	100
78) tetrachloroethene	16.358	166	518976	20.512	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.911	131	349357	20.696	ppbV	99
80) chlorobenzene	16.930	112	635812	20.618	ppbV	98
81) ethylbenzene	17.220	91	1041087	20.607	ppbV	99
82) 2-ethylthiophene	17.254	97	842404	20.870	ppbV	100
83) m+p-xylene	17.363	91	1627120	41.196	ppbV	100
84) bromoform	17.440	173	520536	21.109	ppbV	99
85) styrene	17.635	104	644195	20.899	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.716	83	624440	20.726	ppbV	100
87) o-xylene	17.720	91	838797	20.612	ppbV	99
88) 1,2,3-trichloropropane	17.816	75	505424	20.808	ppbV	100
89) nonane	17.854	43	808210	21.235	ppbV	100
91) isopropylbenzene	18.154	105	1116631	20.388	ppbV	99
92) bromobenzene	18.240	77	636954	20.930	ppbV	98
93) 2-chlorotoluene	18.516	126	302310	20.932	ppbV	92
94) n-propylbenzene	18.530	120	324237	20.721	ppbV	93
95) 4-chlorotoluene	18.568	91	920572	20.465	ppbV	100
96) 4-ethyl toluene	18.635	105	1259566M6	20.695	ppbV	
97) 1,3,5-trimethylbenzene	18.687	105	1014671	20.465	ppbV	98
98) tert-butylbenzene	18.992	119	1037801	20.480	ppbV	100
99) 1,2,4-trimethylbenzene	18.992	105	994555	20.331	ppbV	100
100) decane	19.031	57	763947	20.556	ppbV	98
101) Benzyl Chloride	19.111	91	1014940	21.435	ppbV	98
102) 1,3-dichlorobenzene	19.126	146	670344	20.326	ppbV	97
103) 1,4-dichlorobenzene	19.173	146	687106M4	20.414	ppbV	
104) sec-butylbenzene	19.192	105	1451298	20.501	ppbV	99
105) 1,2,3-trimethylbenzene	19.316	105	933742	20.882	ppbV	96
106) p-isopropyltoluene	19.302	119	1317004	20.467	ppbV	99
107) 1,2-dichlorobenzene	19.435	146	653050	20.318	ppbV	99
108) n-butylbenzene	19.621	91	1232420	20.190	ppbV	99
109) indan	19.478	117	1008763	21.022	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD20.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:31:18 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

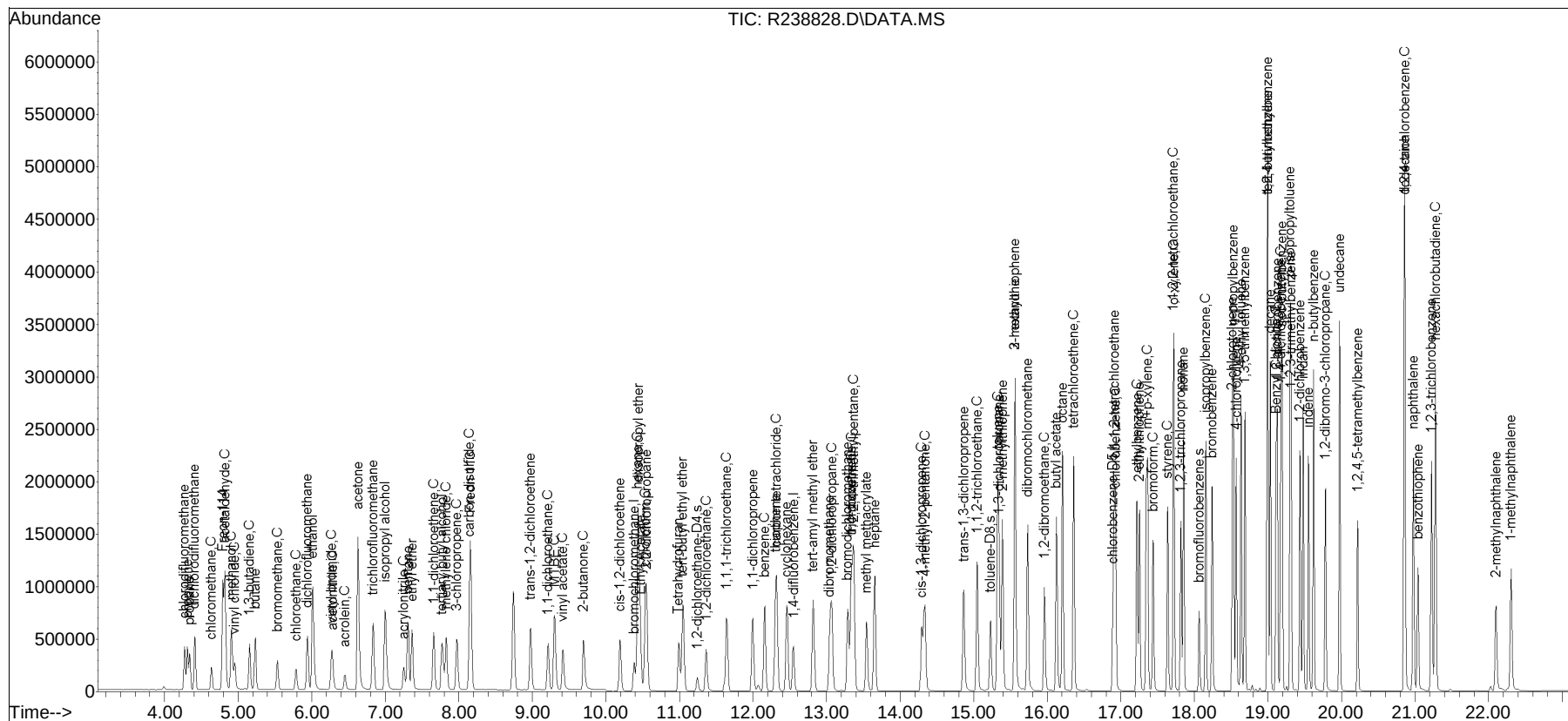
110)	indene	19.549	115	850880	21.277	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.783	75	370882	20.618	ppbV	99
112)	undecane	19.973	57	879804	20.028	ppbV	98
113)	1,2,4,5-tetramethylben...	20.221	119	676550	18.716	ppbV	99
114)	dodecane	20.860	57	929980	18.657	ppbV	99
115)	1,2,4-trichlorobenzene	20.860	180	580553	19.286	ppbV	98
116)	naphthalene	20.977	128	1411821	19.389	ppbV	99
117)	1,2,3-trichlorobenzene	21.224	180	564219	19.386	ppbV	99
118)	benzothiophene	21.042	134	767627	21.950	ppbV	99
119)	hexachlorobutadiene	21.278	225	489843	19.342	ppbV	99
120)	2-methylnaphthalene	22.103	142	453178	20.745	ppbV	100
121)	1-methylnaphthalene	22.307	142	589340M4	19.218	ppbV	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed0207T_ICAL\R238827.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238828.D
Acq On : 8 Feb 2016 2:30 am
Operator : AIRPIANO2:MB
Sample : IT015-SIMSTD20.0
Misc : WG863495
ALS Vial : 8 Sample Multiplier: 1

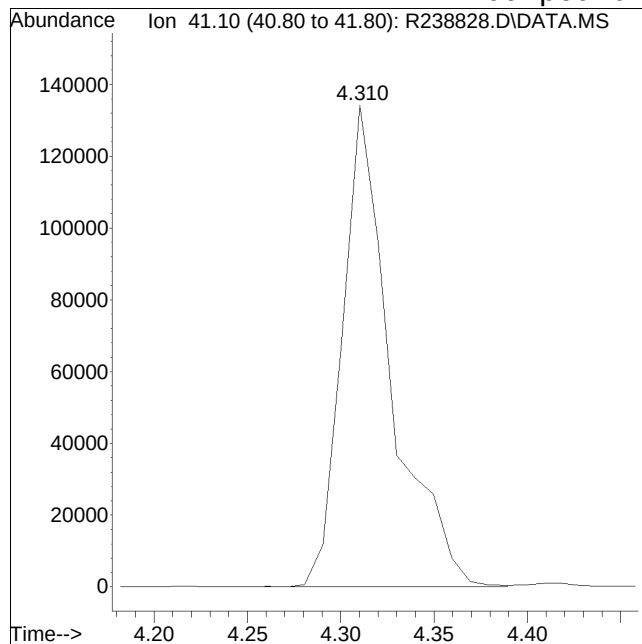
Quant Time: Feb 08 06:31:18 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

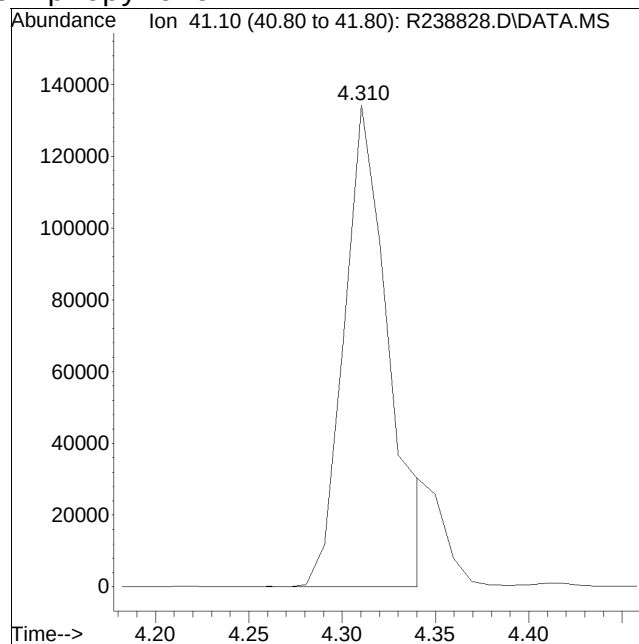
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 245024

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

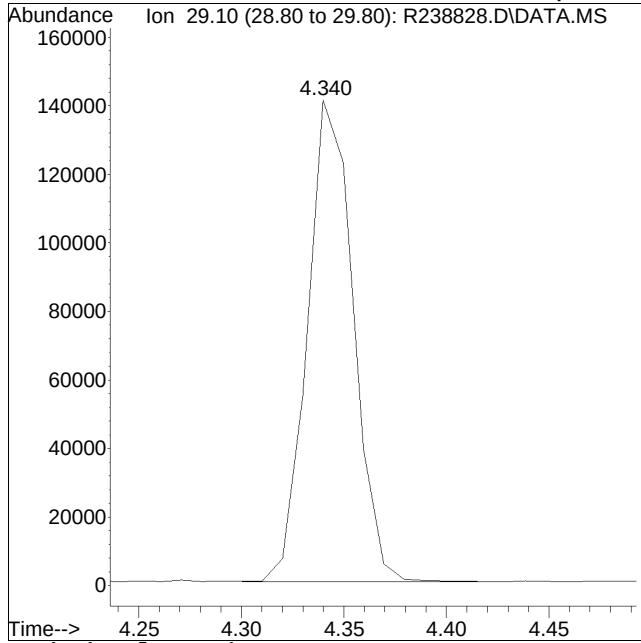


Manual Peak Response = 223480 M6

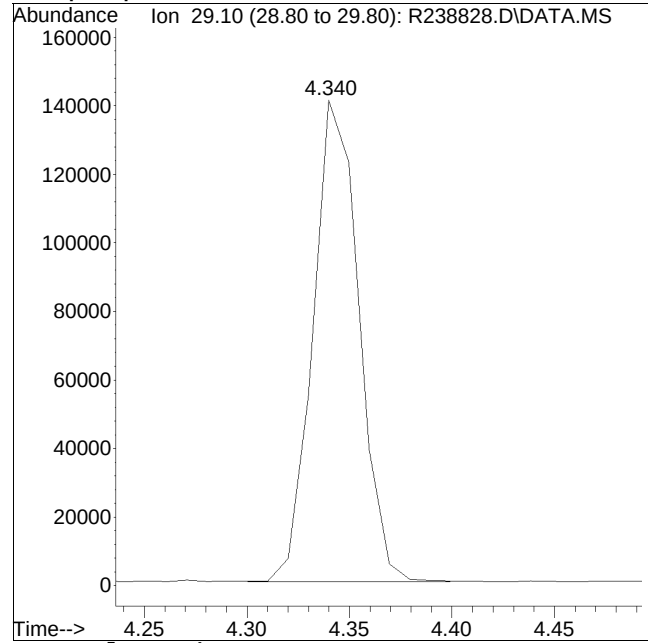
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 218872



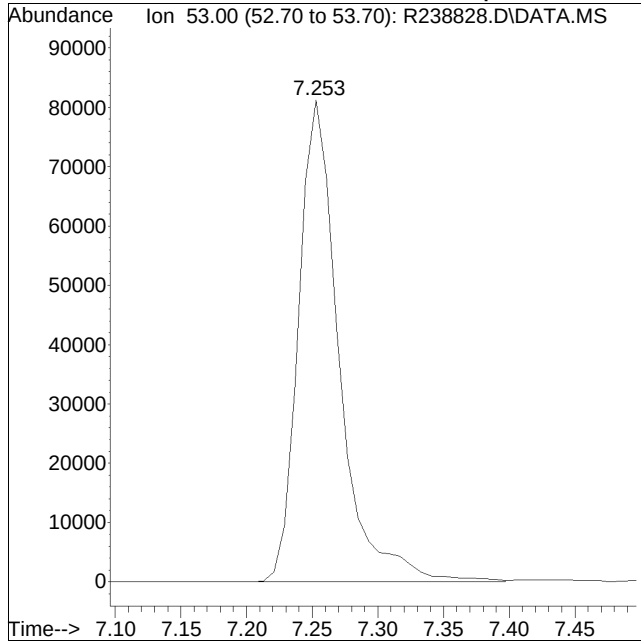
Manual Peak Response = 218990 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

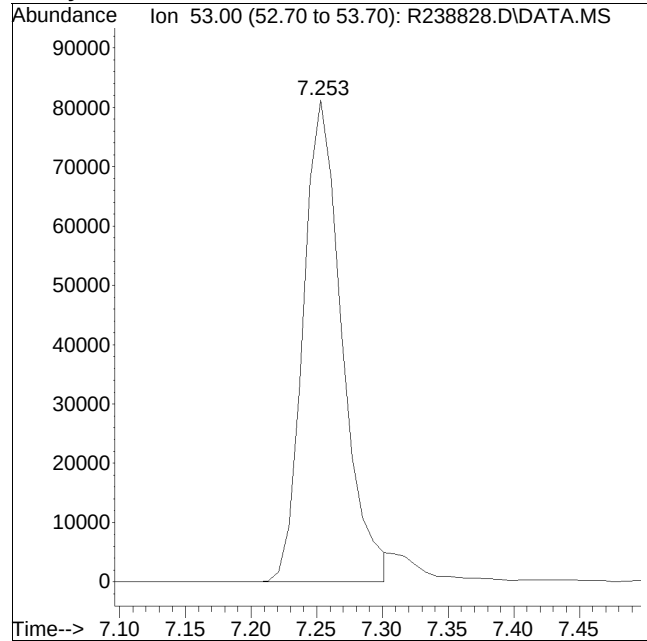
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #23: acrylonitrile



Original Peak Response = 175530

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

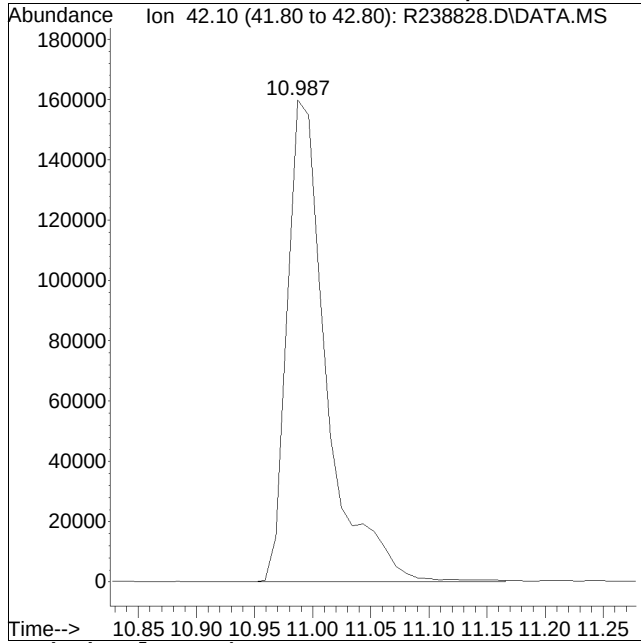


Manual Peak Response = 166427 M6

Manual Integration/Negative Proof Report

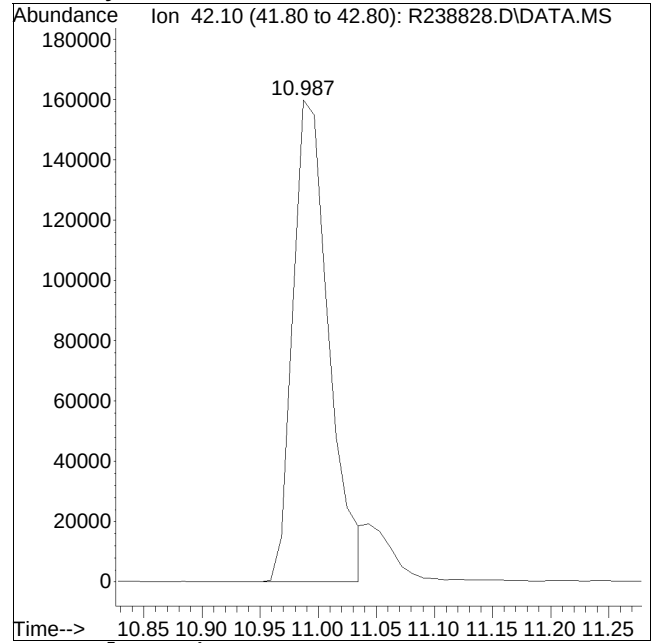
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 378209

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

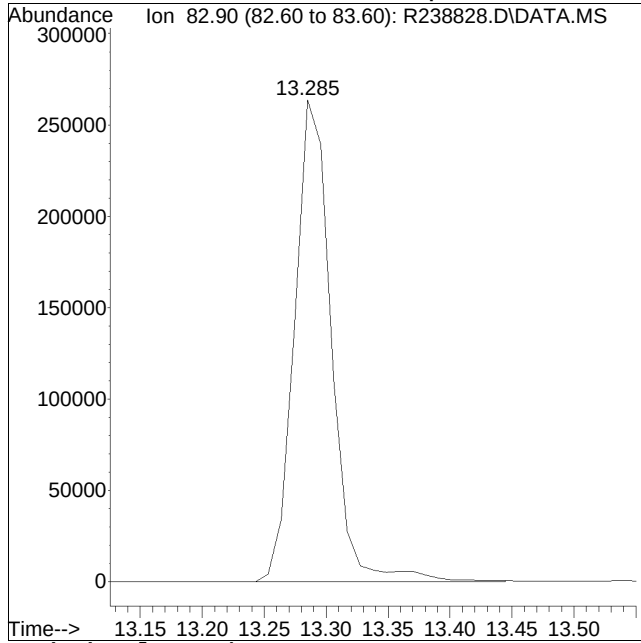


Manual Peak Response = 342872 M6

Manual Integration/Negative Proof Report

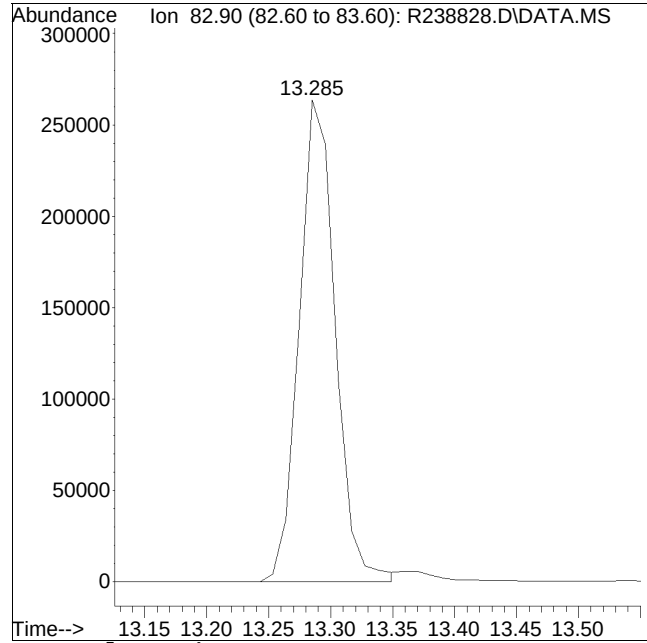
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #57: bromodichloromethane



Original Peak Response = 548204

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

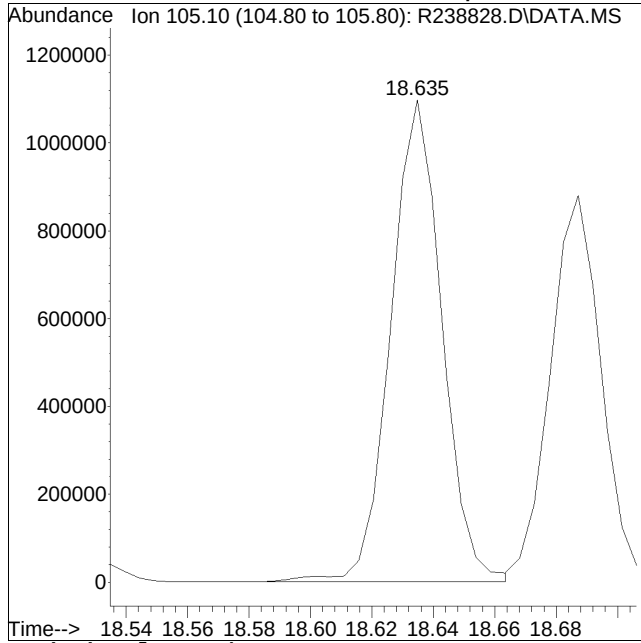


Manual Peak Response = 534022 M6

Manual Integration/Negative Proof Report

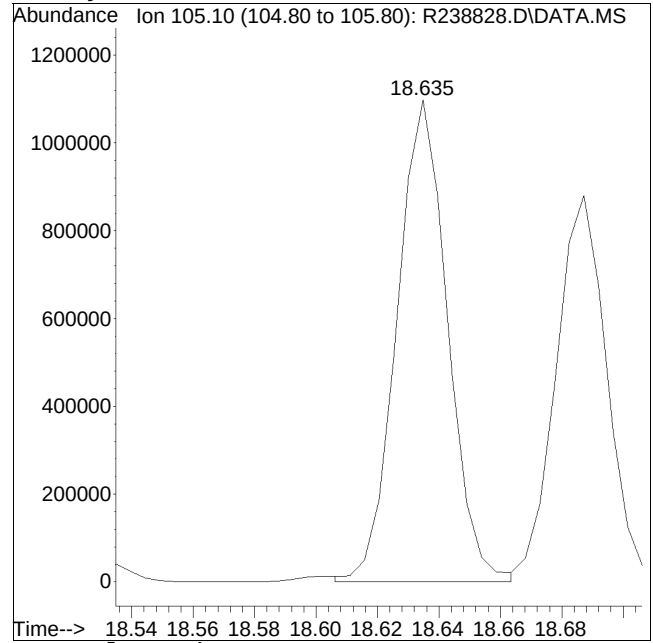
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 1271114

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

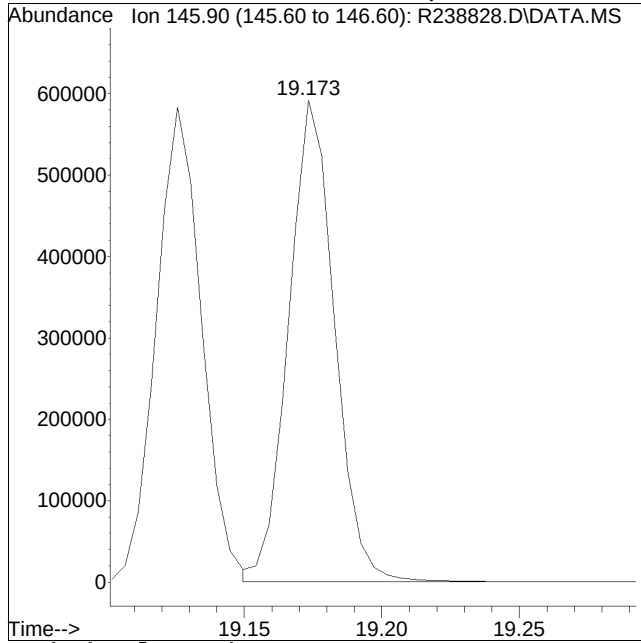


Manual Peak Response = 1259566 M6

Manual Integration/Negative Proof Report

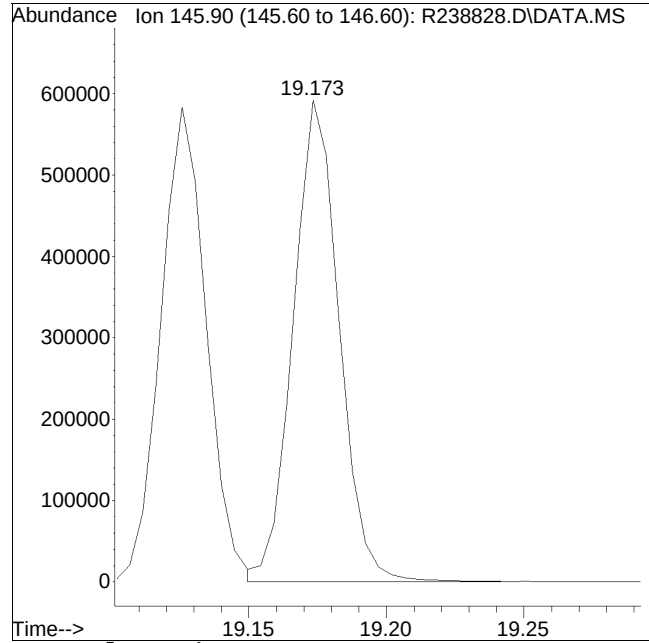
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 685084

M4 = Poor automated baseline construction.

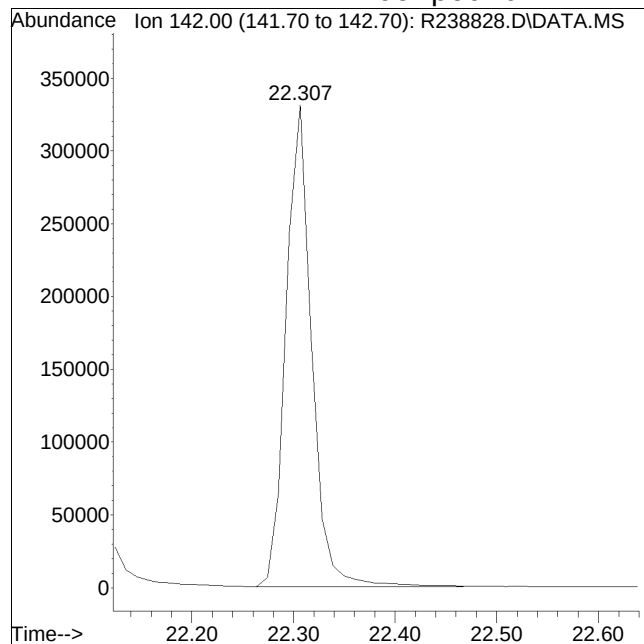


Manual Peak Response = 687106 M4

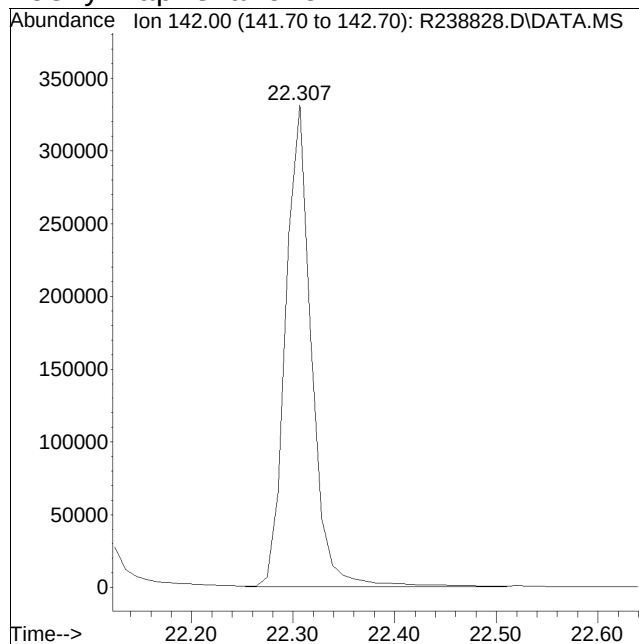
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238828.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/8/2016 6:10 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 580458



Manual Peak Response = 589340 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:33:52 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.386	49	168732	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	103.94%		
43) 1,4-difluorobenzene	12.552	114	351992	10.000	ppbV	0.01
Standard Area = 355895			Recovery =	98.90%		
67) chlorobenzene-D5	16.892	54	88732	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	99.47%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.250	65	98104	9.904	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.04%		
69) toluene-D8	15.228	98	396955	10.118	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.18%		
90) bromofluorobenzene	18.063	95	198250	10.148	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.48%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.281	51	919109	46.733	ppbV	99
3) propylene	4.310	41	514177M6	47.468	ppbV	
4) propane	4.350	29	510380M4	47.907	ppbV	
5) dichlorodifluoromethane	4.419	85	864580	40.431	ppbV	100
6) chloromethane	4.636	50	513104	47.749	ppbV	100
7) Freon-114	4.793	85	1191729	45.010	ppbV	100
8) methanol	4.912	31	1193219	238.361	ppbV	92
9) vinyl chloride	4.961	62	510181	47.748	ppbV	96
10) 1,3-butadiene	5.158	54	398119M6	47.540	ppbV	
11) butane	5.237	43	907120	47.224	ppbV	99
12) acetaldehyde	4.823	29	1838799	235.717	ppbV	99
13) bromomethane	5.534	94	419123	45.840	ppbV	98
14) chloroethane	5.790	64	239665	47.048	ppbV	97
15) ethanol	6.030	31	2293848	237.273	ppbV	98
16) dichlorofluoromethane	5.950	67	1040652	46.727	ppbV	99
17) vinyl bromide	6.270	106	422538	47.850	ppbV	95
18) acrolein	6.453	56	218231	47.172	ppbV	99
19) acetone	6.629	43	4276954	225.399	ppbV	99
20) acetonitrile	6.286	41	536633	46.713	ppbV	100
21) trichlorofluoromethane	6.837	101	1181635	46.615	ppbV	98
22) isopropyl alcohol	7.005	45	2442285	117.629	ppbV	100
23) acrylonitrile	7.261	53	404671M6	48.573	ppbV	
24) pentane	7.309	43	988426	47.591	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:33:52 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.365	31	835947	45.760	ppbV	99
26) 1,1-dichloroethene	7.660	61	908145	47.757	ppbV	97
27) tertiary butyl alcohol	7.772	59	1172779	47.959	ppbV	98
28) methylene chloride	7.836	49	737546M4	47.638	ppbV	
29) 3-chloropropene	7.980	41	868341	47.888	ppbV	100
30) carbon disulfide	8.156	76	1500701	47.558	ppbV	97
31) Freon 113	8.164	101	1005251	46.185	ppbV	99
32) trans-1,2-dichloroethene	8.981	61	880792	47.645	ppbV	98
33) 1,1-dichloroethane	9.215	63	1006006	47.283	ppbV	98
34) MTBE	9.297	73	1475053	48.112	ppbV	99
35) vinyl acetate	9.420	43	1575542	55.043	ppbV	100
36) 2-butanone	9.695	43	1428793	48.131	ppbV	99
37) cis-1,2-dichloroethene	10.198	61	787863	47.875	ppbV	99
38) Ethyl Acetate	10.471	61	188949	50.535	ppbV	97
39) chloroform	10.546	83	1056347	46.773	ppbV	96
40) Tetrahydrofuran	10.987	42	818602M6	47.442	ppbV	
41) 2,2-dichloropropane	10.555	77	983719	46.506	ppbV	100
42) 1,2-dichloroethane	11.363	62	797698	46.733	ppbV	99
44) hexane	10.433	57	887638	48.706	ppbV	97
45) diisopropyl ether	10.442	87	381353	47.979	ppbV	99
46) tert-butyl ethyl ether	11.053	59	1785661	49.227	ppbV	99
48) 1,1,1-trichloroethane	11.649	97	1200299	48.070	ppbV	99
49) 1,1-dichloropropene	12.000	75	811080	50.172	ppbV	98
50) benzene	12.159	78	1546641	49.808	ppbV	99
51) thiophene	12.308	84	1038345	49.769	ppbV	92
52) carbon tetrachloride	12.329	117	1148579	49.636	ppbV	99
53) cyclohexane	12.467	56	938107	49.331	ppbV	99
54) tert-amyl methyl ether	12.818	73	1553512	50.291	ppbV	99
55) dibromomethane	13.051	93	656797	49.852	ppbV	97
56) 1,2-dichloropropane	13.073	63	638721	50.266	ppbV	99
57) bromodichloromethane	13.296	83	1246465	50.653	ppbV	99
58) 1,4-dioxane	13.327	88	371054	50.957	ppbV	94
59) trichloroethene	13.338	130	659280	48.141	ppbV	97
60) 2,2,4-trimethylpentane	13.370	57	3023518	49.987	ppbV	100
61) methyl methacrylate	13.540	41	990513	52.220	ppbV	100
62) heptane	13.657	43	1306052	49.832	ppbV	99
63) cis-1,3-dichloropropene	14.292	75	917145	50.970	ppbV	99
64) 4-methyl-2-pentanone	14.339	43	1763298	49.423	ppbV	99
65) trans-1,3-dichloropropene	14.867	75	1313813	51.425	ppbV	98
66) 1,1,2-trichloroethane	15.047	97	896329	49.696	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:33:52 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.328	91	2691562	47.923	ppbV	99
70) 2-methylthiophene	15.391	97	2257743	48.605	ppbV	97
71) 1,3-dichloropropane	15.346	76	1226794	48.577	ppbV	96
72) 2-hexanone	15.563	43	2359579	49.488	ppbV	99
73) 3-methylthiophene	15.563	97	2248648	47.361	ppbV	99
74) dibromochloromethane	15.734	129	1803252	49.147	ppbV	100
75) 1,2-dibromoethane	15.960	107	1451242	48.718	ppbV	98
76) butyl acetate	16.123	73	294260	48.634	ppbV	91
77) octane	16.213	85	776895	47.040	ppbV	99
78) tetrachloroethene	16.358	166	1223606	48.328	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.916	131	803323	47.555	ppbV	98
80) chlorobenzene	16.930	112	1490911	48.312	ppbV	97
81) ethylbenzene	17.220	91	2419302	47.853	ppbV	99
82) 2-ethylthiophene	17.254	97	1967930	48.718	ppbV	99
83) m+p-xylene	17.368	91	3778451	95.596	ppbV	99
84) bromoform	17.444	173	1213926	49.192	ppbV	99
85) styrene	17.639	104	1475470	47.833	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.720	83	1421482	47.146	ppbV	99
87) o-xylene	17.720	91	1889680	46.401	ppbV	98
88) 1,2,3-trichloropropane	17.820	75	1186406	48.808	ppbV	99
89) nonane	17.854	43	1903250	49.971	ppbV	99
91) isopropylbenzene	18.159	105	2594685	47.340	ppbV	99
92) bromobenzene	18.244	77	1497914	49.185	ppbV	99
93) 2-chlorotoluene	18.520	126	680966	47.115	ppbV	82
94) n-propylbenzene	18.535	120	743986	47.512	ppbV	80
95) 4-chlorotoluene	18.568	91	2052476	45.595	ppbV	99
96) 4-ethyl toluene	18.635	105	2892081M6	47.482	ppbV	
97) 1,3,5-trimethylbenzene	18.687	105	2313783	46.634	ppbV	99
98) tert-butylbenzene	18.997	119	2251676	44.403	ppbV	100
99) 1,2,4-trimethylbenzene	18.997	105	2193702	44.812	ppbV	97
100) decane	19.035	57	1775939	47.751	ppbV	99
101) Benzyl Chloride	19.111	91	2369821	50.014	ppbV	98
102) 1,3-dichlorobenzene	19.130	146	1549437	46.947	ppbV	97
103) 1,4-dichlorobenzene	19.178	146	1563018M4	46.403	ppbV	
104) sec-butylbenzene	19.192	105	3266462	46.109	ppbV	100
105) 1,2,3-trimethylbenzene	19.316	105	2120249	47.383	ppbV	99
106) p-isopropyltoluene	19.307	119	2917613	45.309	ppbV	97
107) 1,2-dichlorobenzene	19.440	146	1498966	46.603	ppbV	98
108) n-butylbenzene	19.621	91	2772686	45.390	ppbV	99
109) indan	19.483	117	2300785	47.912	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MB
 Sample : IT015-SIMSTD50.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:33:52 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

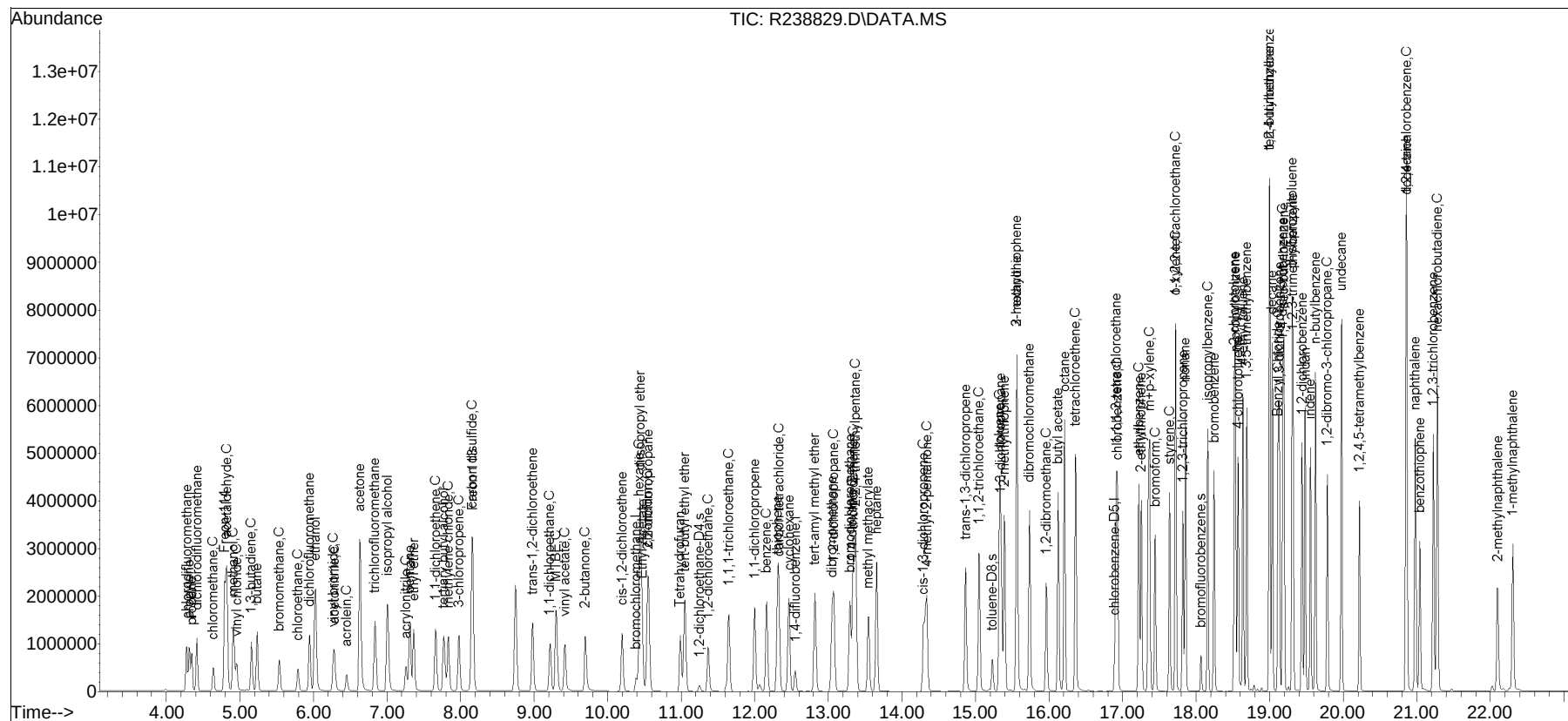
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.554	115	1925997	48.126	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.783	75	884734	49.148	ppbV	95
112)	undecane	19.978	57	2040121	46.409	ppbV	99
113)	1,2,4,5-tetramethylben...	20.221	119	1622272	44.847	ppbV	99
114)	dodecane	20.859	57	2074245	41.584	ppbV	96
115)	1,2,4-trichlorobenzene	20.859	180	1307078	43.391	ppbV	99
116)	naphthalene	20.977	128	3307644	45.391	ppbV	98
117)	1,2,3-trichlorobenzene	21.224	180	1380707	47.407	ppbV	99
118)	benzothiophene	21.042	134	1860635	53.166	ppbV	98
119)	hexachlorobutadiene	21.278	225	1157949	45.690	ppbV	98
120)	2-methylnaphthalene	22.103	142	1174380	53.721	ppbV	98
121)	1-methylnaphthalene	22.307	142	1476660	48.118	ppbV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238829.D
Acq On    : 8 Feb 2016    3:03 am
Operator  : AIRPIAN02:MB
Sample    : IT015-SIMSTD50.0
Misc      : WG863495
ALS Vial  : 8    Sample Multiplier: 1
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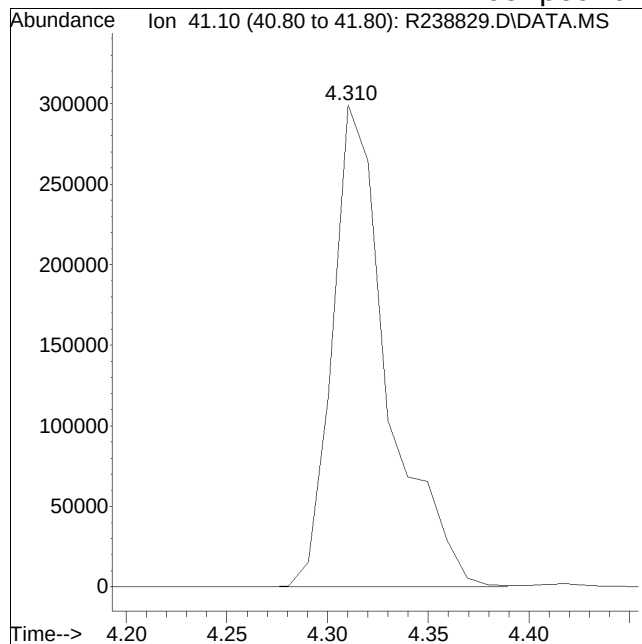
Quant Time: Feb 08 06:33:52 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

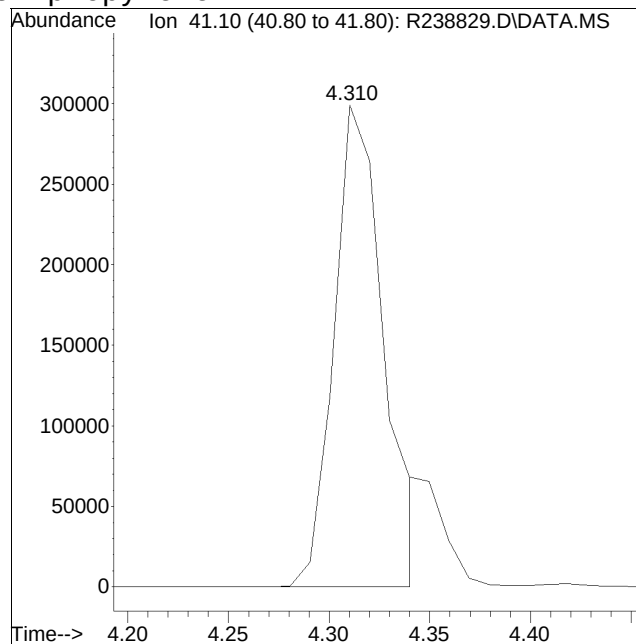
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #3: propylene



Original Peak Response = 574529

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

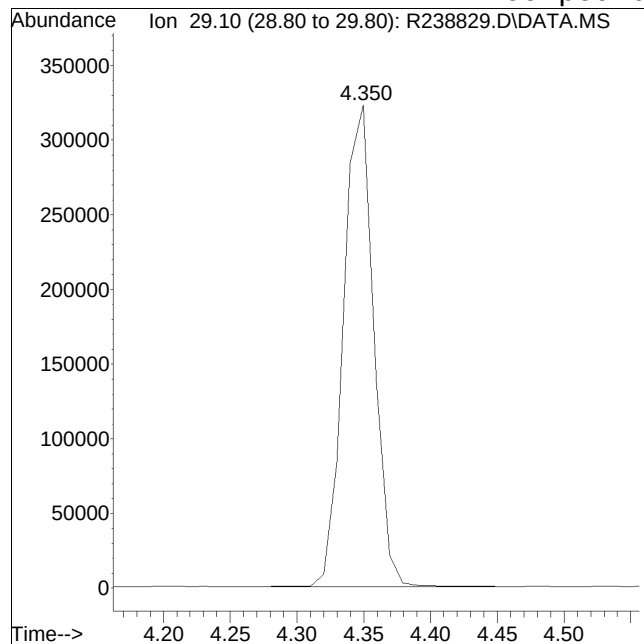


Manual Peak Response = 514177 M6

Manual Integration/Negative Proof Report

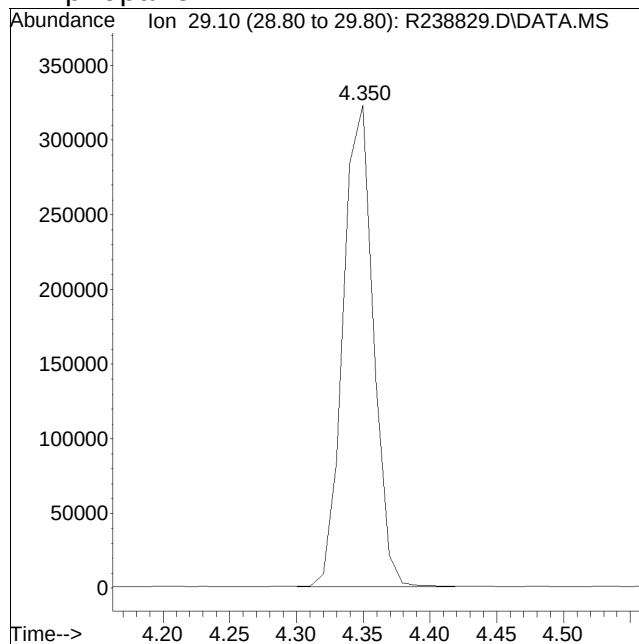
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #4: propane



Original Peak Response = 510563

M4 = Poor automated baseline construction.

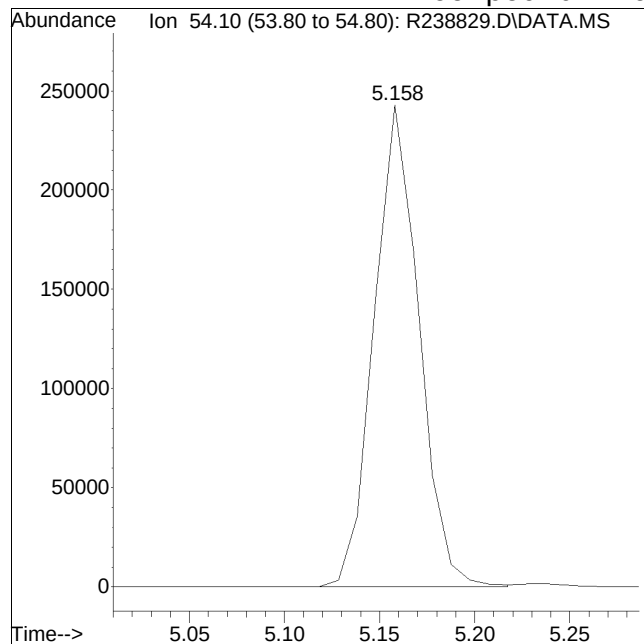


Manual Peak Response = 510380 M4

Manual Integration/Negative Proof Report

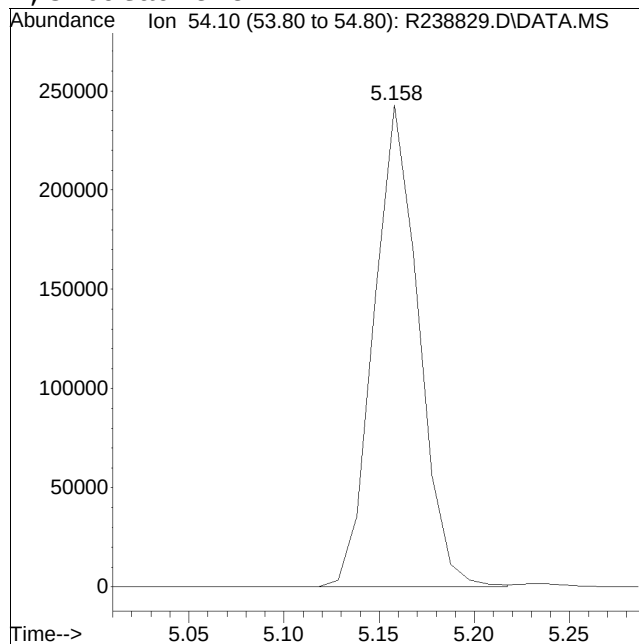
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #10: 1,3-butadiene



Original Peak Response = 398183

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

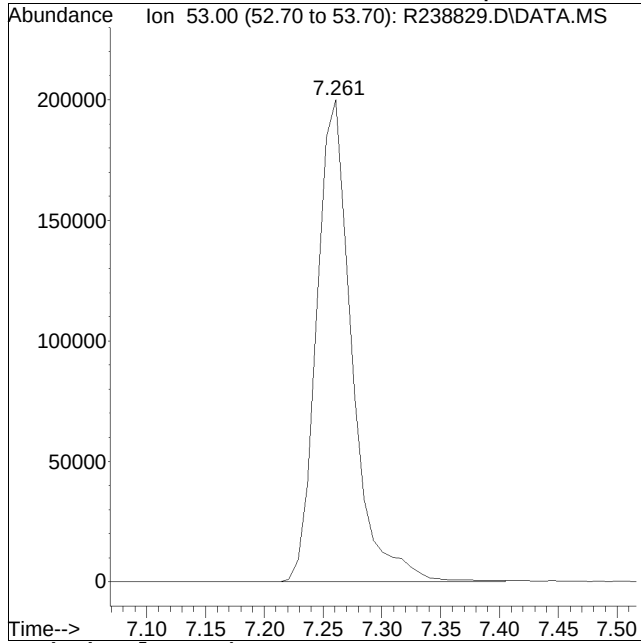


Manual Peak Response = 398119 M6

Manual Integration/Negative Proof Report

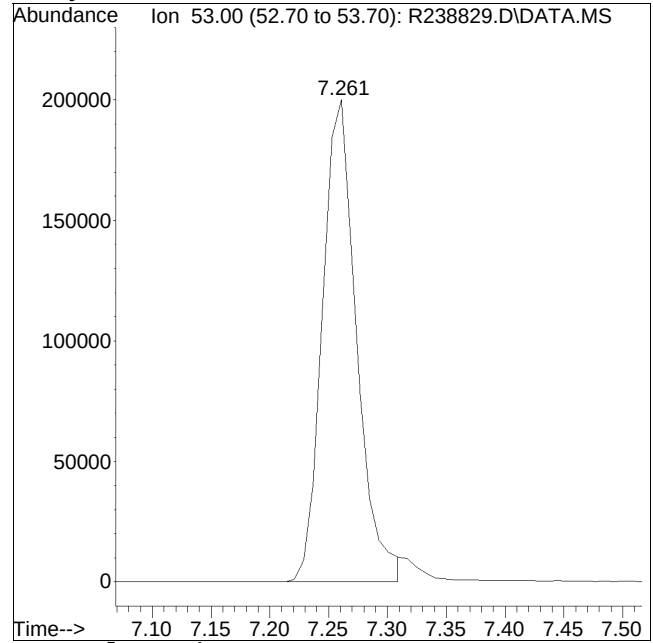
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #23: acrylonitrile



Original Peak Response = 417847

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

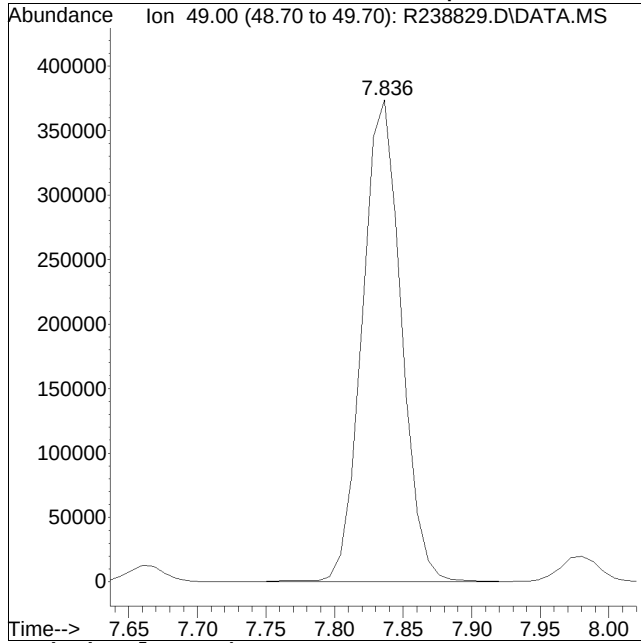


Manual Peak Response = 404671 M6

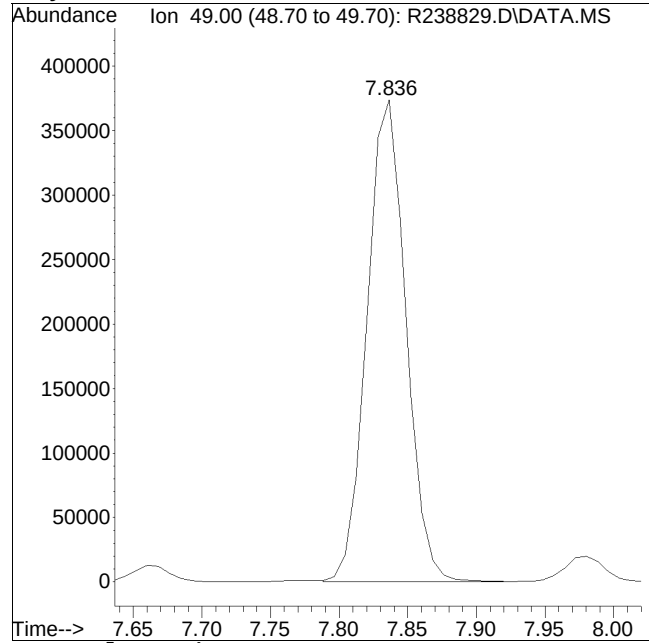
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #28: methylene chloride



Original Peak Response = 740362



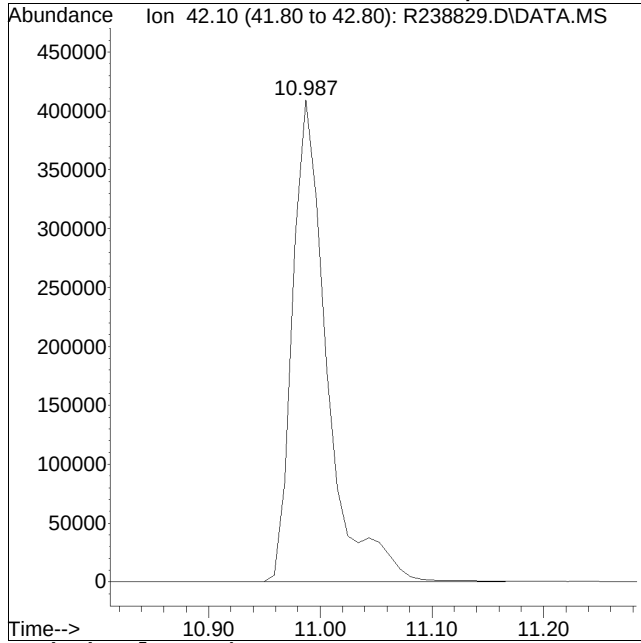
Manual Peak Response = 737546 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

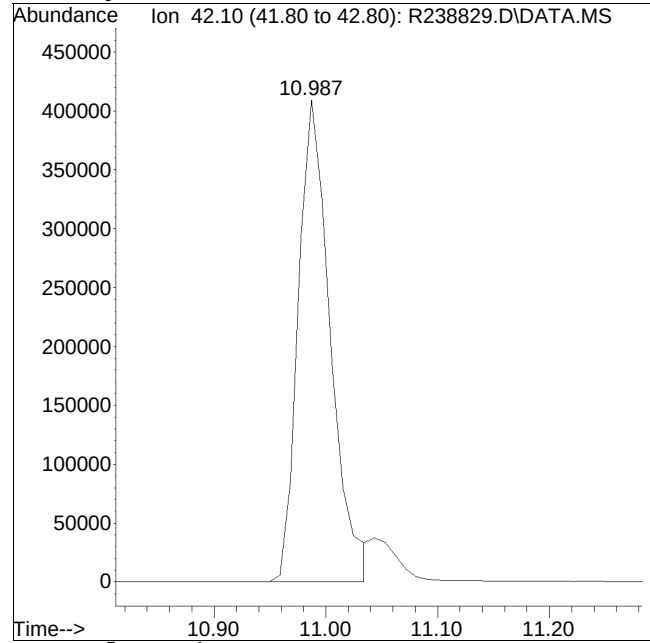
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #40: Tetrahydrofuran



Original Peak Response = 886457

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

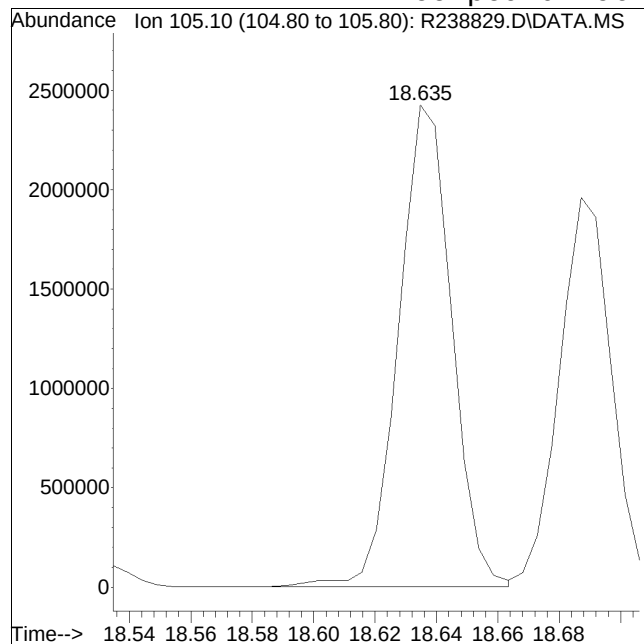


Manual Peak Response = 818602 M6

Manual Integration/Negative Proof Report

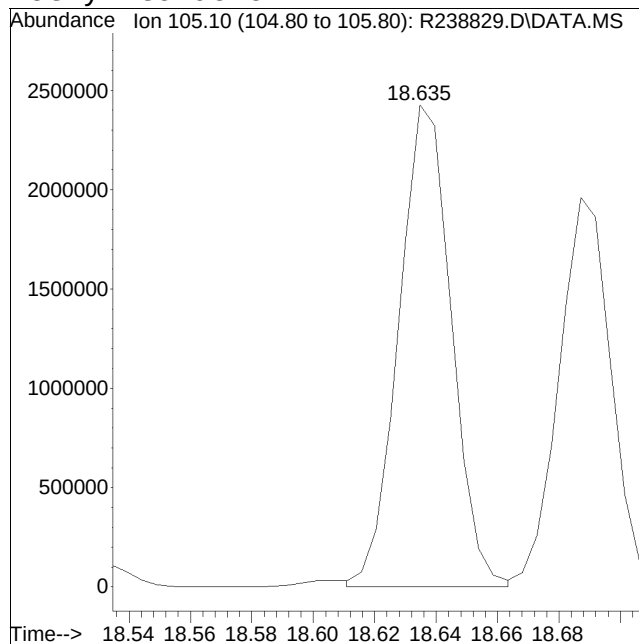
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 2926404

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

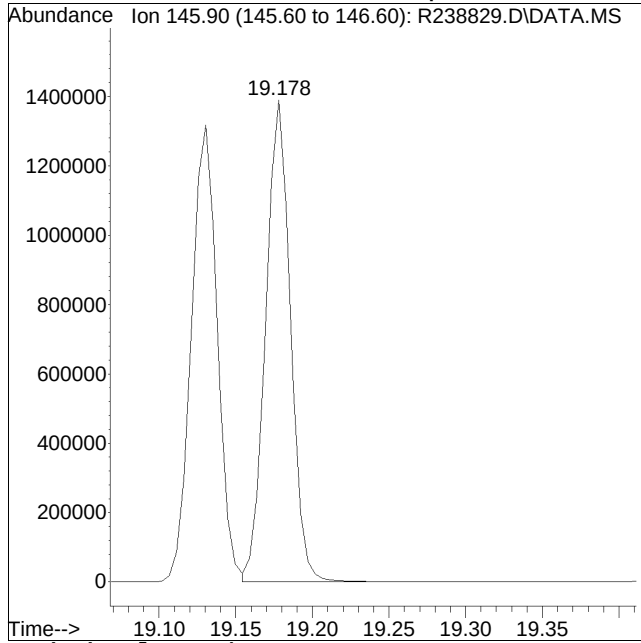


Manual Peak Response = 2892081 M6

Manual Integration/Negative Proof Report

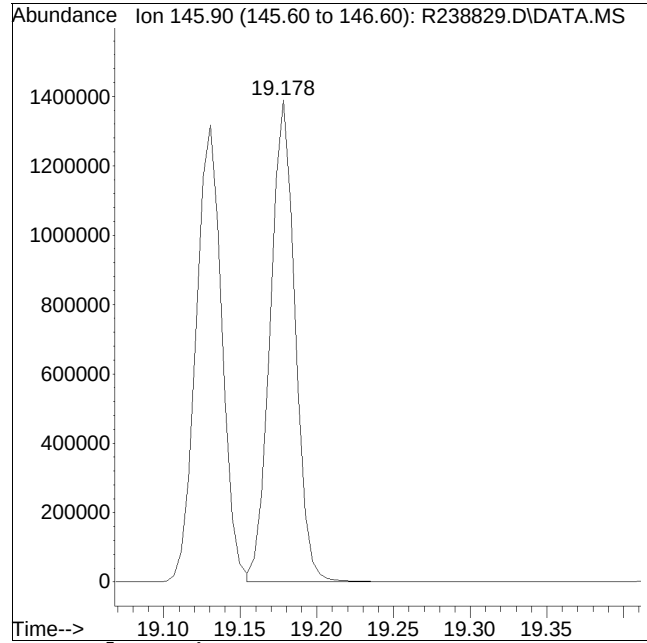
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238829.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/8/2016 6:10 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 1562158

M4 = Poor automated baseline construction.



Manual Peak Response = 1563018 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238830.D
 Acq On : 8 Feb 2016 3:39 am
 Operator : AIRPIAN02:MB
 Sample : IT015-LLSTD100.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:36:34 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.386	49	180126	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	110.96%		
43) 1,4-difluorobenzene	12.552	114	351447	10.000	ppbV	0.01
Standard Area = 355895			Recovery =	98.75%		
67) chlorobenzene-D5	16.896	54	88598	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	99.32%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.250	65	99000	10.010	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.10%		
69) toluene-D8	15.228	98	395202	10.088	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.88%		
90) bromofluorobenzene	18.067	95	199095	10.206	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.06%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.280	51	1789825	85.249	ppbV	100
3) propylene	4.310	41	1013006M6	87.604	ppbV	
4) propane	4.349	29	1007950M4	88.626	ppbV	
5) dichlorodifluoromethane	4.418	85	1732532	75.895	ppbV	100
6) chloromethane	4.635	50	1000592	87.224	ppbV	99
7) Freon-114	4.793	85	2317392	81.988	ppbV	100
8) methanol	4.921	31	2265614	423.958	ppbV	91
9) vinyl chloride	4.961	62	992218	86.988	ppbV	97
10) 1,3-butadiene	5.158	54	780599M6	87.316	ppbV	
11) butane	5.237	43	1762940	85.972	ppbV	98
12) acetaldehyde	4.823	29	3435836	412.582	ppbV	99
13) bromomethane	5.534	94	801280	82.093	ppbV	97
14) chloroethane	5.790	64	469132	86.268	ppbV	97
15) ethanol	6.046	31	4316917	418.291	ppbV	99
16) dichlorofluoromethane	5.950	67	2011596	84.610	ppbV	99
17) vinyl bromide	6.277	106	808741	85.793	ppbV	97
18) acrolein	6.453	56	430896	87.250	ppbV	98
19) acetone	6.637	43	7995470	394.713	ppbV	99
20) acetonitrile	6.293	41	1042082	84.974	ppbV	99
21) trichlorofluoromethane	6.837	101	2258078	83.445	ppbV	99
22) isopropyl alcohol	7.021	45	4625095	208.670	ppbV	100
23) acrylonitrile	7.269	53	796177M6	89.521	ppbV	
24) pentane	7.317	43	1909157M6	86.107	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238830.D
 Acq On : 8 Feb 2016 3:39 am
 Operator : AIRPIAN02:MB
 Sample : IT015-LLSTD100.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:36:34 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.365	31	1601514M4	82.122	ppbV	
26) 1,1-dichloroethene	7.660	61	1783236	87.844	ppbV	97
27) tertiary butyl alcohol	7.780	59	2248156	86.120	ppbV	98
28) methylene chloride	7.836	49	1449145	87.679	ppbV	99
29) 3-chloropropene	7.980	41	1696886	87.661	ppbV	100
30) carbon disulfide	8.156	76	2869151	85.174	ppbV	98
31) Freon 113	8.164	101	1898285	81.698	ppbV	97
32) trans-1,2-dichloroethene	8.981	61	1750462	88.699	ppbV	97
33) 1,1-dichloroethane	9.221	63	1994736	87.823	ppbV	99
34) MTBE	9.297	73	2892074	88.363	ppbV	99
35) vinyl acetate	9.420	43	3161117	103.450	ppbV	100
36) 2-butanone	9.702	43	2842625	89.701	ppbV	99
37) cis-1,2-dichloroethene	10.198	61	1555123	88.520	ppbV	96
38) Ethyl Acetate	10.470	61	363272	91.012	ppbV	83
39) chloroform	10.546	83	2001152	83.003	ppbV	96
40) Tetrahydrofuran	10.987	42	1620049	87.950	ppbV	100
41) 2,2-dichloropropane	10.564	77	1892192	83.797	ppbV	99
42) 1,2-dichloroethane	11.372	62	1547019	84.900	ppbV	98
44) hexane	10.433	57	1691697	92.970	ppbV	83
45) diisopropyl ether	10.452	87	728307	91.773	ppbV	100
46) tert-butyl ethyl ether	11.053	59	3501146	96.669	ppbV	99
48) 1,1,1-trichloroethane	11.649	97	2291728	91.922	ppbV	99
49) 1,1-dichloropropene	12.000	75	1581978	98.009	ppbV	99
50) benzene	12.170	78	2993320	96.546	ppbV	99
51) thiophene	12.318	84	2032146	97.554	ppbV	98
52) carbon tetrachloride	12.329	117	2188821	94.736	ppbV	98
53) cyclohexane	12.467	56	1848389	97.350	ppbV	98
54) tert-amyl methyl ether	12.817	73	3016708	97.810	ppbV	98
55) dibromomethane	13.051	93	1243683	94.543	ppbV	98
56) 1,2-dichloropropane	13.083	63	1250165	98.538	ppbV	100
57) bromodichloromethane	13.295	83	2414428	98.268	ppbV	100
58) 1,4-dioxane	13.338	88	707092	97.255	ppbV	95
59) trichloroethene	13.338	130	1247763	91.254	ppbV	98
60) 2,2,4-trimethylpentane	13.370	57	5794114	95.941	ppbV	98
61) methyl methacrylate	13.550	41	1953819	103.166	ppbV	99
62) heptane	13.657	43	2537179	96.956	ppbV	98
63) cis-1,3-dichloropropene	14.308	75	1777085	98.914	ppbV	97
64) 4-methyl-2-pentanone	14.339	43	3408480	95.684	ppbV	99
65) trans-1,3-dichloropropene	14.867	75	2566777	100.624	ppbV	97
66) 1,1,2-trichloroethane	15.056	97	1732910	96.228	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238830.D
 Acq On : 8 Feb 2016 3:39 am
 Operator : AIRPIAN02:MB
 Sample : IT015-LLSTD100.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:36:34 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.336	91	5119528	91.290	ppbV	98
70) 2-methylthiophene	15.400	97	4323663	93.222	ppbV	98
71) 1,3-dichloropropane	15.355	76	2354396	93.367	ppbV	94
72) 2-hexanone	15.571	43	4399417	92.410	ppbV	99
73) 3-methylthiophene	15.571	97	4173483	88.035	ppbV	99
74) dibromochloromethane	15.743	129	3324624	90.748	ppbV	99
75) 1,2-dibromoethane	15.969	107	2761045	92.829	ppbV	97
76) butyl acetate	16.132	73	573634	94.952	ppbV	97
77) octane	16.213	85	1480294	89.766	ppbV	99
78) tetrachloroethene	16.367	166	2353518	93.095	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.920	131	1475509	87.479	ppbV	99
80) chlorobenzene	16.934	112	2810862	91.222	ppbV	97
81) ethylbenzene	17.225	91	4583185	90.791	ppbV	99
82) 2-ethylthiophene	17.258	97	3646507	90.409	ppbV	99
83) m+p-xylene	17.372	91	6972719	176.679	ppbV	99
84) bromoform	17.448	173	2261877	91.797	ppbV	99
85) styrene	17.644	104	2801688	90.964	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.725	83	2523187	83.813	ppbV	100
87) o-xylene	17.729	91	3335922	82.038	ppbV	97
88) 1,2,3-trichloropropane	17.825	75	2250830	92.737	ppbV	99
89) nonane	17.858	43	3439671	90.448	ppbV	98
91) isopropylbenzene	18.163	105	4758338	86.947	ppbV	97
92) bromobenzene	18.248	77	2824215	92.876	ppbV	99
93) 2-chlorotoluene	18.520	126	1263330	87.541	ppbV	80
94) n-propylbenzene	18.539	120	1349018	86.280	ppbV	70
95) 4-chlorotoluene	18.572	91	3982817	88.611	ppbV	100
96) 4-ethyl toluene	18.639	105	5324657M6	87.553	ppbV	
97) 1,3,5-trimethylbenzene	18.691	105	4257137	85.932	ppbV	98
98) tert-butylbenzene	19.001	119	3860505	76.244	ppbV	99
99) 1,2,4-trimethylbenzene	19.006	105	3747094	76.659	ppbV	89
100) decane	19.039	57	3157810	85.034	ppbV	99
101) Benzyl Chloride	19.120	91	4333990	91.605	ppbV	97
102) 1,3-dichlorobenzene	19.135	146	2854464	86.620	ppbV	98
103) 1,4-dichlorobenzene	19.182	146	2776325M4	82.548	ppbV	
104) sec-butylbenzene	19.196	105	5700119	80.583	ppbV	98
105) 1,2,3-trimethylbenzene	19.320	105	3730831	83.503	ppbV	100
106) p-isopropyltoluene	19.311	119	5005229	77.846	ppbV	97
107) 1,2-dichlorobenzene	19.444	146	2817733	87.736	ppbV	99
108) n-butylbenzene	19.625	91	5043156	82.684	ppbV	98
109) indan	19.487	117	4217468	87.958	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238830.D
 Acq On : 8 Feb 2016 3:39 am
 Operator : AIRPIAN02:MB
 Sample : IT015-LLSTD100.0
 Misc : WG863495
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:36:34 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 06:10:15 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default - All compounds listed

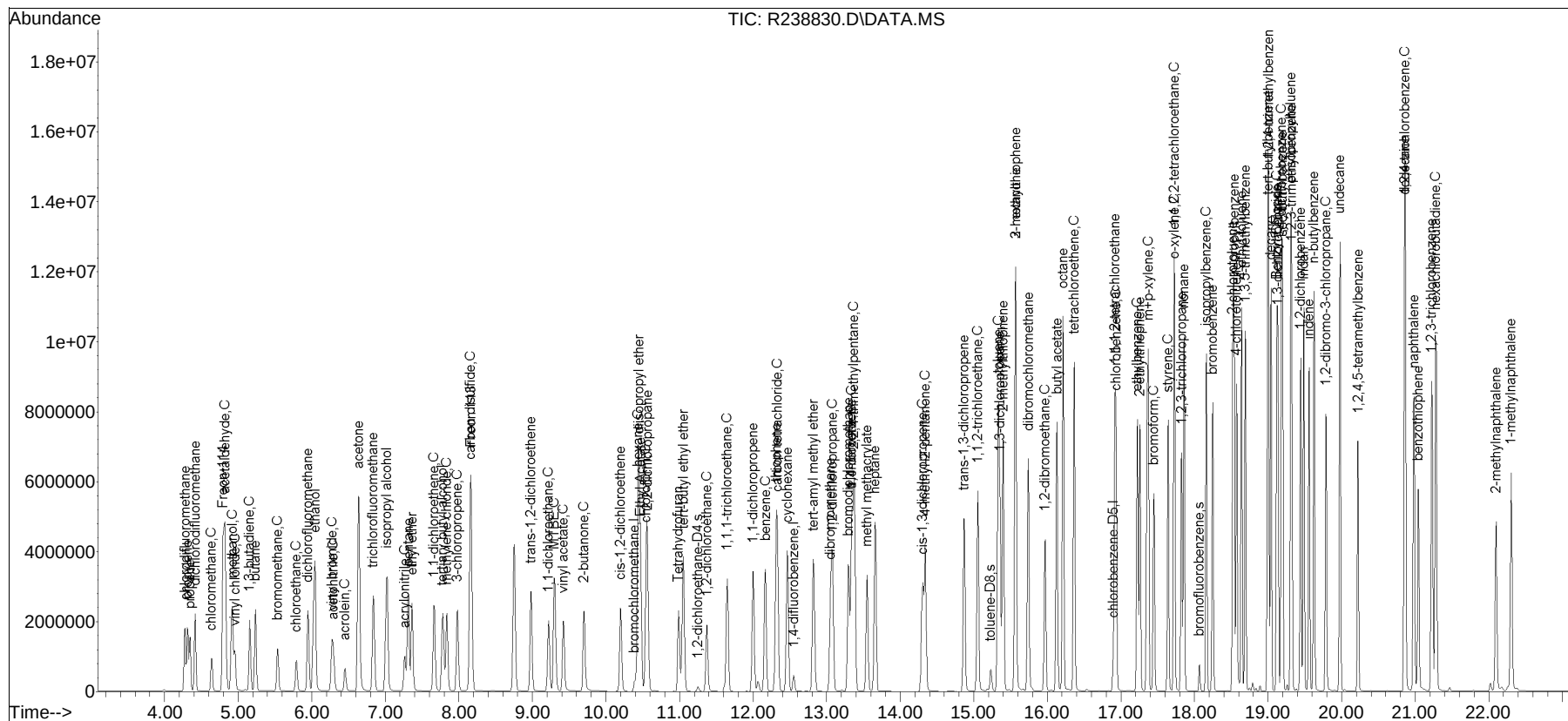
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.558	115	3590643	89.857	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.787	75	1658735	92.285	ppbV	97
112)	undecane	19.977	57	3593631	81.871	ppbV #	98
113)	1,2,4,5-tetramethylben...	20.225	119	3073422	85.091	ppbV	99
114)	dodecane	20.859	57	3348652	67.234	ppbV	91
115)	1,2,4-trichlorobenzene	20.859	180	2137838	71.077	ppbV	98
116)	naphthalene	20.987	128	6225319	85.560	ppbV	99
117)	1,2,3-trichlorobenzene	21.223	180	2639771	90.774	ppbV	100
118)	benzothiophene	21.041	134	3572149	102.226	ppbV	96
119)	hexachlorobutadiene	21.277	225	2070572	81.824	ppbV	96
120)	2-methylnaphthalene	22.102	142	2371720	108.655	ppbV	99
121)	1-methylnaphthalene	22.306	142	2940915	95.977	ppbV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed 0207T_ICAL\R238827.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238830.D
Acq On : 8 Feb 2016 3:39 am
Operator : AIRPIAN02:MB
Sample : IT015-LLSTD100.0
Misc : WG863495
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 08 06:36:34 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 06:10:15 2016
Response via : Initial Calibration



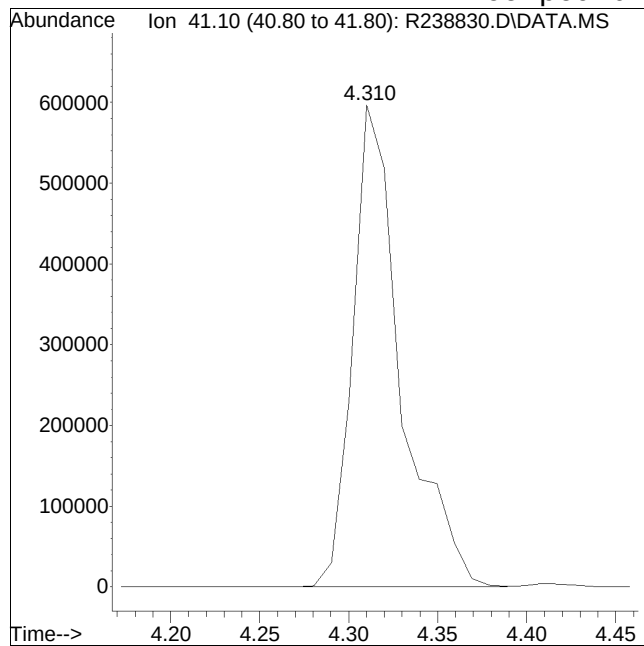
TALL160207.M Mon Feb 08 09:48:04 2016

Page: 5

Manual Integration/Negative Proof Report

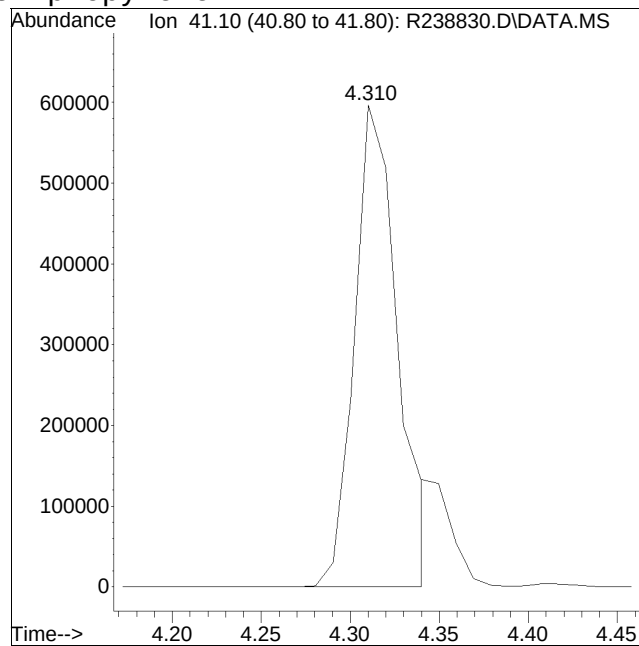
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #3: propylene



Original Peak Response = 1129446

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



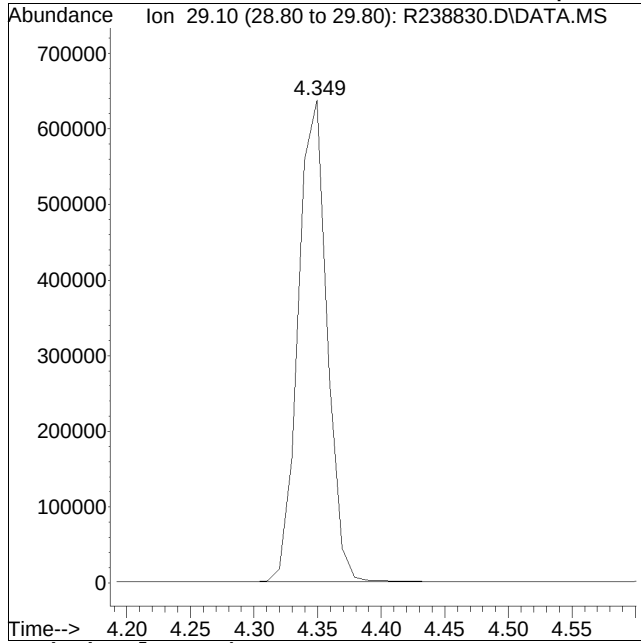
Manual Peak Response = 1013006 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

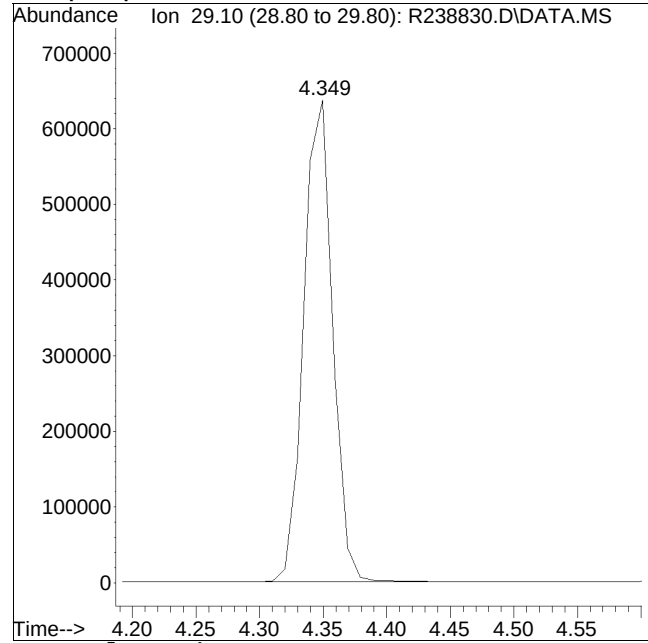
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #4: propane



Original Peak Response = 1007694



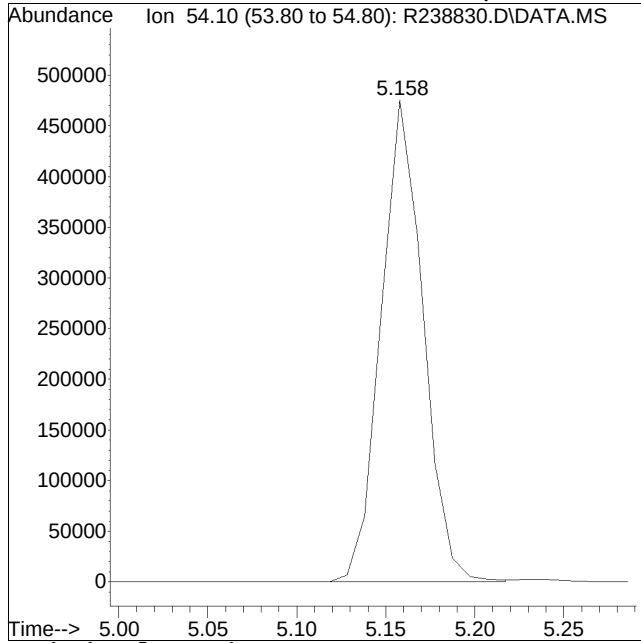
Manual Peak Response = 1007950 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

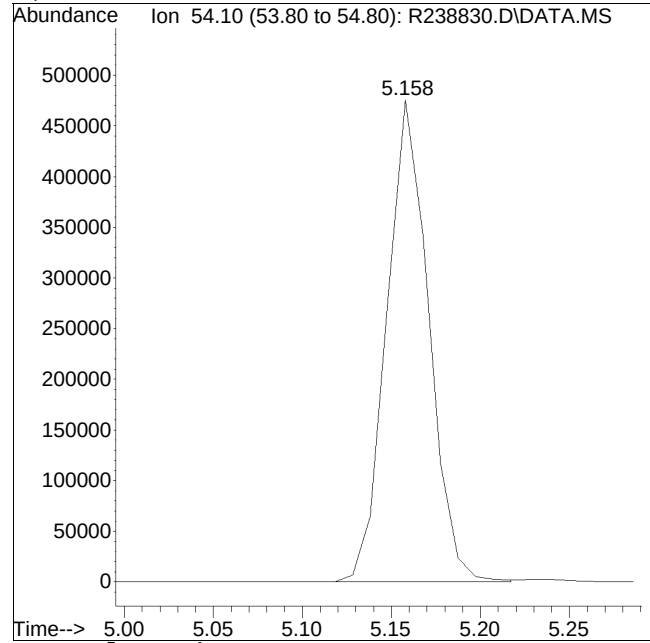
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #10: 1,3-butadiene



Original Peak Response = 780890

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



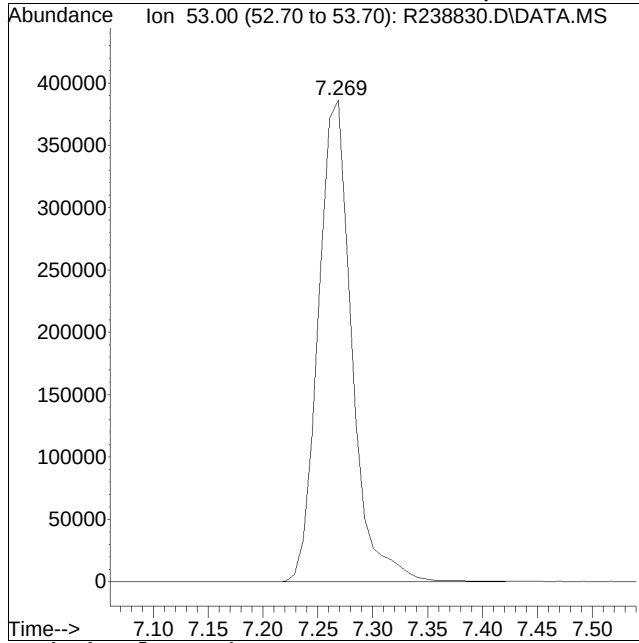
Manual Peak Response = 780599 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

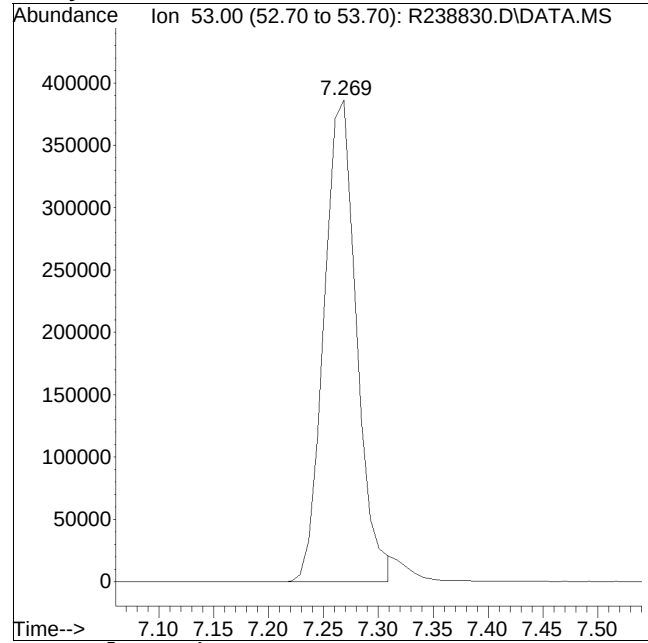
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #23: acrylonitrile



Original Peak Response = 821526

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

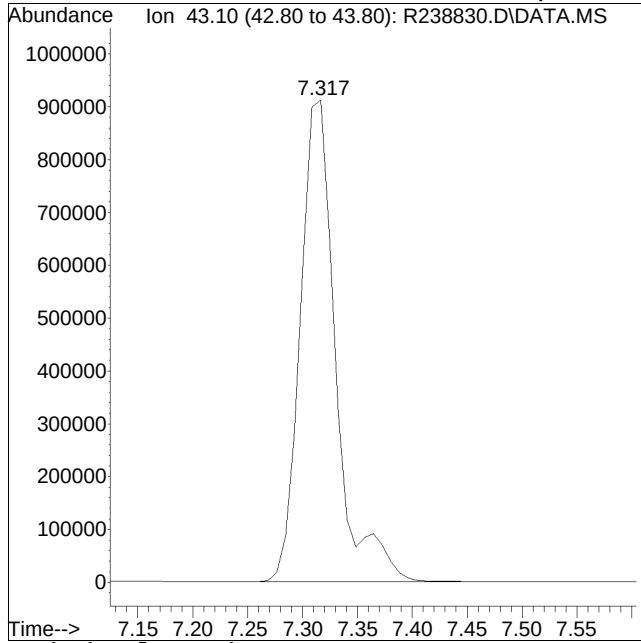


Manual Peak Response = 796177 M6

Manual Integration/Negative Proof Report

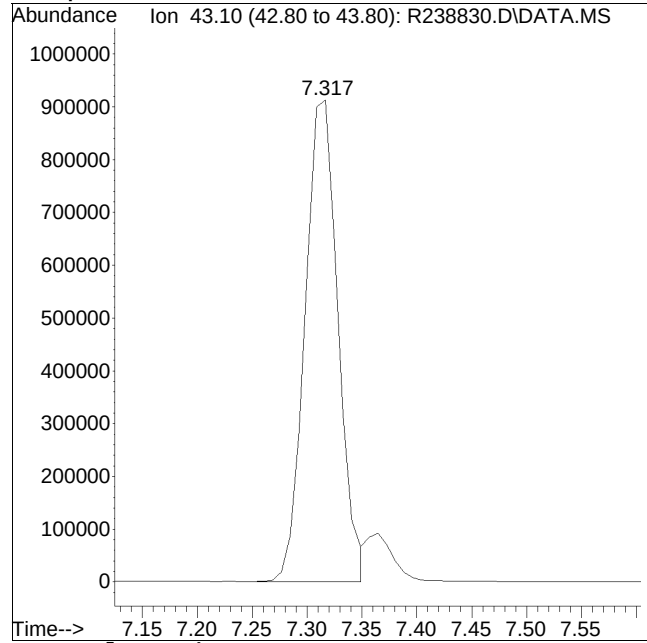
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #24: pentane



Original Peak Response = 2055189

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

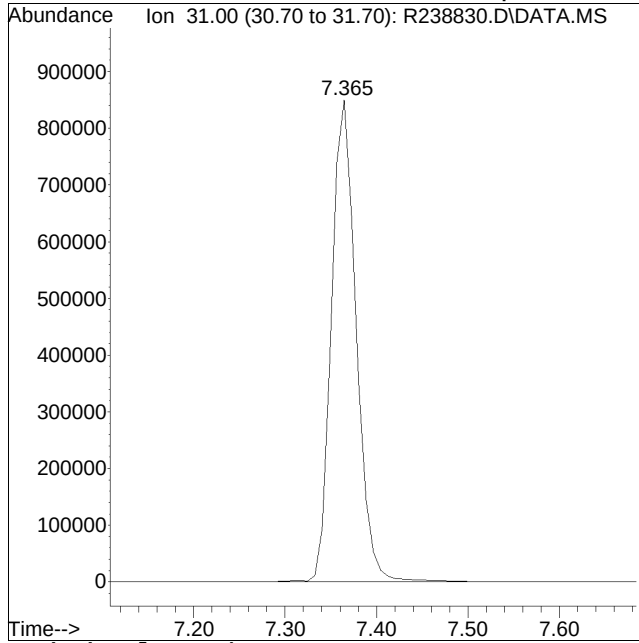


Manual Peak Response = 1909157 M6

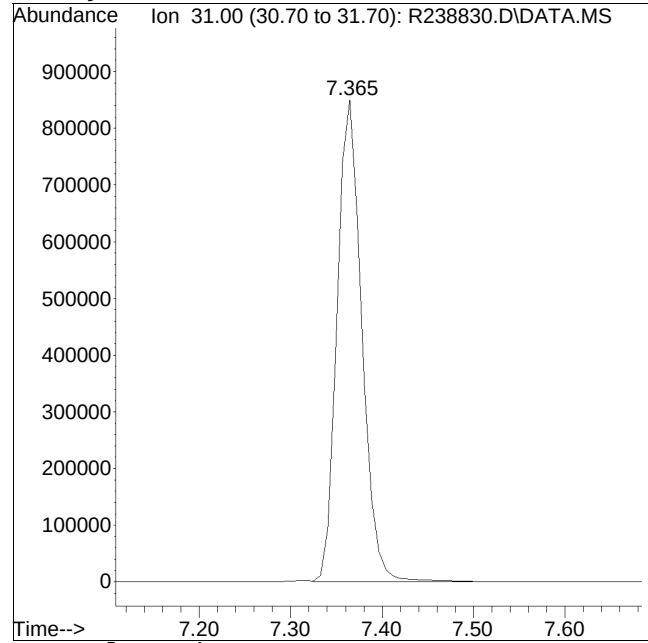
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #25: ethyl ether



Original Peak Response = 1606589



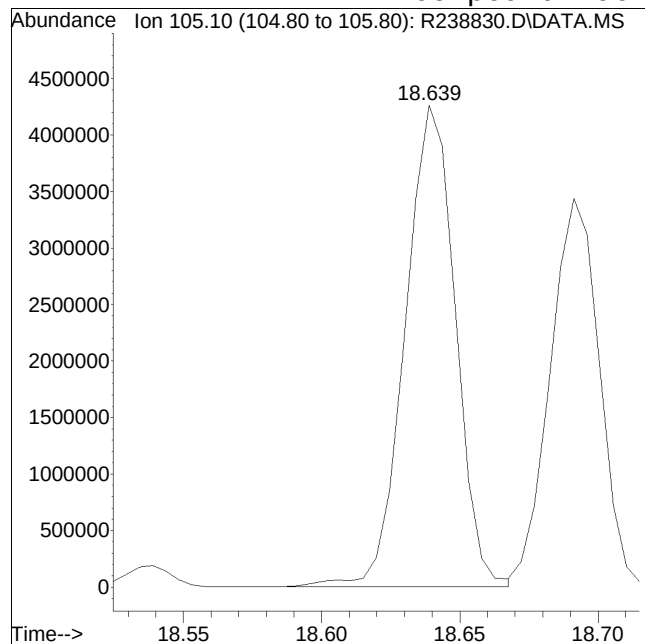
Manual Peak Response = 1601514 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

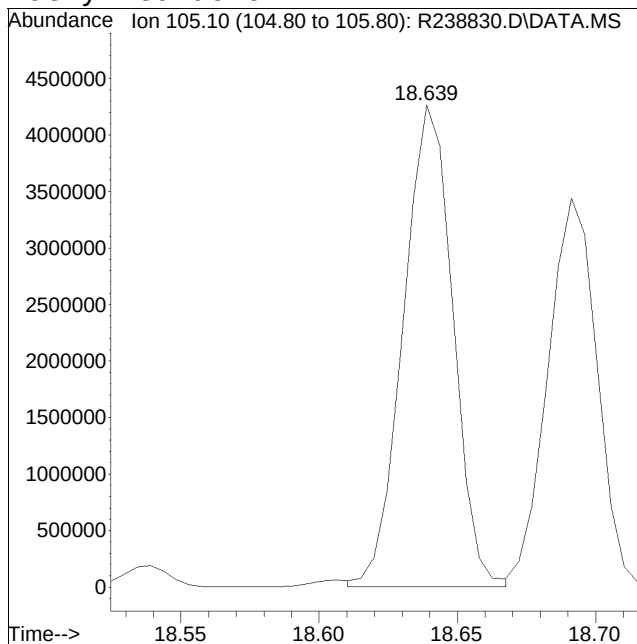
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #96: 4-ethyl toluene



Original Peak Response = 5390392

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

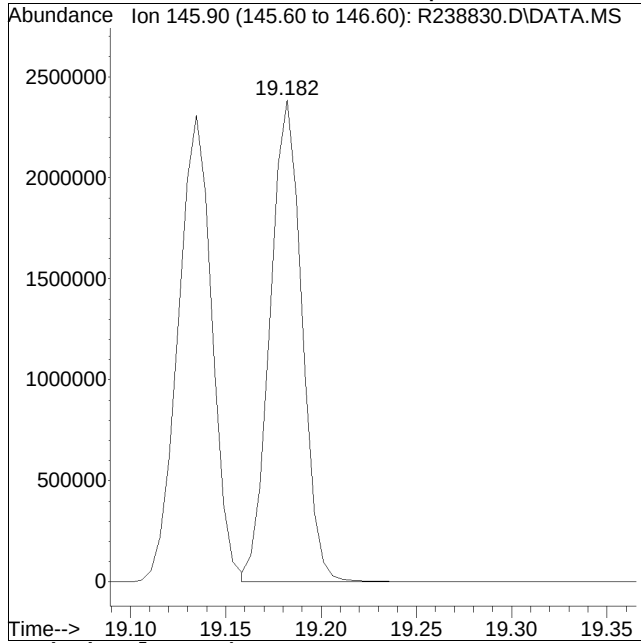


Manual Peak Response = 5324657 M6

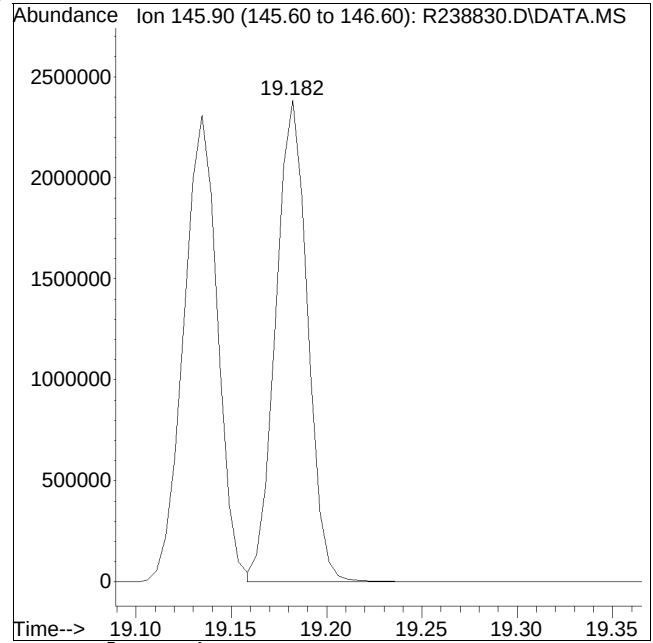
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238830.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 3:39 am Instrument : Air Piano 2
Sample : IT015-LLSTD100.0 Quant Date : 2/8/2016 6:11 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 2773037



Manual Peak Response = 2776325 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	102	0.00
2	chlorodifluoromethane	1.256	1.047	16.6	91	0.00
3	propylene	0.746	0.684	8.3	108	0.00
4	propane	0.740	0.594	19.7	95	0.00
5	dichlorodifluoromethane	1.264	1.125	11.0	90	0.00
6 C	chloromethane	0.699	0.640	8.4	102	0.00
7	Freon-114	1.695	1.614	4.8	104	0.00
8 C	methanol	0.304	0.261	14.1	89	0.00
9 C	vinyl chloride	0.675	0.635	5.9	102	0.00
10 C	1,3-butadiene	0.531	0.525	1.1	107	0.00
11	butane	1.237	1.069	13.6	95	0.00
13 C	bromomethane	0.574	0.525	8.5	98	0.00
14 C	chloroethane	0.308	0.300	2.6	101	0.00
15	ethanol	0.604	0.550	8.9	97	0.00
16	dichlorofluoromethane	1.408	1.208	14.2	93	0.00
17 C	vinyl bromide	0.565	0.523	7.4	101	0.00
18 C	acrolein	0.300	0.259	13.7	96	0.00
19	acetone	1.172	1.063	9.3	96	0.00
20 C	acetonitrile	0.762	0.633	16.9	94	0.00
21	trichlorofluoromethane	1.587	1.492	6.0	101	0.00
22	isopropyl alcohol	1.339	1.248	6.8	103	0.00
23 C	acrylonitrile	0.559	0.479	14.3	99	0.00
24	pentane	1.371	1.167	14.9	96	0.00
25	ethyl ether	1.175	0.963	18.0	90	0.00
26 C	1,1-dichloroethene	1.199	1.129	5.8	102	0.00
27	tertiary butyl alcohol	1.530	1.411	7.8	99	0.00
28 C	methylene chloride	0.967	0.922	4.7	102	0.00
29 C	3-chloropropene	1.179	1.130	4.2	107	0.00
30 C	carbon disulfide	1.948	1.826	6.3	99	0.00
31	Freon 113	1.339	1.288	3.8	101	0.00
32	trans-1,2-dichloroethene	1.144	0.989	13.5	92	0.00
33 C	1,1-dichloroethane	1.328	1.271	4.3	102	0.00
34 C	MTBE	1.941	1.851	4.6	103	0.00
35 C	vinyl acetate	1.736	2.020	-16.4	121	0.00
36 C	2-butanone	1.842	1.740	5.5	100	0.00
37	cis-1,2-dichloroethene	1.040	1.083	-4.1	113	0.00
38	Ethyl Acetate	0.222	0.225	-1.4	103	0.00
39 C	chloroform	1.417	1.373	3.1	104	0.00
40	Tetrahydrofuran	1.137	0.941	17.2	93	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	1.323	1.155	12.7	94	0.00
42 C	1,2-dichloroethane	1.033	0.973	5.8	98	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00
44 C	hexane	0.562	0.488	13.2	99	0.00
45	diisopropyl ether	0.251	0.207	17.5	96	0.00
46	tert-butyl ethyl ether	1.122	0.932	16.9	95	0.00
47 s	1,2-dichloroethane-D4	0.281	0.272	3.2	101	0.00
48 C	1,1,1-trichloroethane	0.780	0.693	11.2	102	0.00
49	1,1-dichloropropene	0.500	0.435	13.0	99	0.00
50 C	benzene	0.975	0.856	12.2	102	0.00
52 C	carbon tetrachloride	0.714	0.655	8.3	104	0.00
53	cyclohexane	0.601	0.519	13.6	101	0.00
54	tert-amyl methyl ether	0.955	0.814	14.8	97	0.00
55	dibromomethane	0.390	0.343	12.1	96	0.00
56 C	1,2-dichloropropane	0.395	0.349	11.6	101	-0.01
57	bromodichloromethane	0.756	0.710	6.1	106	0.00
58 C	1,4-dioxane	0.216	0.205	5.1	104	0.00
59 C	trichloroethene	0.403	0.382	5.2	103	0.00
60 C	2,2,4-trimethylpentane	1.848	1.655	10.4	101	0.00
61	methyl methacrylate	0.583	0.482	17.3	94	0.00
62	heptane	0.799	0.696	12.9	98	0.00
63 C	cis-1,3-dichloropropene	0.525	0.525	0.0	108	0.00
64 C	4-methyl-2-pentanone	1.068	0.976	8.6	101	0.00
65	trans-1,3-dichloropropene	0.763	0.634	16.9	92	0.00
66 C	1,1,2-trichloroethane	0.558	0.512	8.2	105	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	99	0.00
68 C	toluene	6.687	6.250	6.5	98	0.00
69 s	toluene-D8	4.451	4.676	-5.1	105	0.00
71	1,3-dichloropropane	2.978	2.676	10.1	93	0.00
72	2-hexanone	5.159	5.379	-4.3	99	0.00
74	dibromochloromethane	4.337	4.284	1.2	103	0.00
75 C	1,2-dibromoethane	3.510	3.480	0.9	103	0.00
76	butyl acetate	0.700	0.644	8.0	94	0.00
77	octane	1.957	1.734	11.4	92	0.00
78 C	tetrachloroethene	3.020	2.933	2.9	102	0.00
79	1,1,1,2-tetrachloroethane	1.994	1.830	8.2	95	0.00
80 C	chlorobenzene	3.694	3.592	2.8	103	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	6.018	5.911	1.8	103	0.00
83 C	m+p-xylene	4.661	4.629	0.7	103	0.00
84 C	bromoform	2.847	2.845	0.1	102	0.00
85 C	styrene	3.602	3.572	0.8	102	0.00
86 C	1,1,2,2-tetrachloroethane	3.505	3.540	-1.0	103	0.00
87 C	o-xylene	4.791	4.762	0.6	103	0.00
88	1,2,3-trichloropropane	2.879	2.597	9.8	94	0.00
89	nonane	4.586	4.025	12.2	93	0.00
90 s	bromofluorobenzene	2.207	2.339	-6.0	105	0.00
91 C	isopropylbenzene	6.572	6.135	6.6	99	0.00
92	bromobenzene	3.636	3.337	8.2	97	0.00
93	2-chlorotoluene	1.680	1.578	6.1	96	0.00
94	n-propylbenzene	1.821	1.685	7.5	95	0.00
95	4-chlorotoluene	5.361	4.840	9.7	95	0.00
96	4-ethyl toluene	7.125	6.660	6.5	96	0.00
97	1,3,5-trimethylbenzene	5.906	5.704	3.4	101	0.00
98	tert-butylbenzene	5.942	5.437	8.5	94	0.00
99	1,2,4-trimethylbenzene	5.585	5.700	-2.1	103	0.00
100	decane	4.319	3.971	8.1	94	0.00
101 C	Benzyl Chloride	5.306	5.445	-2.6	101	0.00
102	1,3-dichlorobenzene	3.810	3.838	-0.7	102	0.00
103 C	1,4-dichlorobenzene	3.941	4.000	-1.5	105	0.00
104	sec-butylbenzene	8.280	7.728	6.7	96	0.00
106	p-isopropyltoluene	7.438	6.405	13.9	88	0.00
107	1,2-dichlorobenzene	3.730	3.801	-1.9	104	0.00
108	n-butylbenzene	6.918	6.711	3.0	97	0.00
111 C	1,2-dibromo-3-chloropropane	2.026	1.928	4.8	94	0.00
112	undecane	4.836	4.610	4.7	92	0.00
114	dodecane	5.028	5.031	-0.1	89	0.00
115 C	1,2,4-trichlorobenzene	3.124	3.500	-12.0	102	0.00
116	naphthalene	7.803	8.004	-2.6	97	0.00
117	1,2,3-trichlorobenzene	3.153	3.211	-1.8	97	0.00
119 C	hexachlorobutadiene	2.763	2.873	-4.0	100	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.377	49	164782	10.000	ppbV	0.00
Standard Area = 162333			Recovery =	101.51%		
43) 1,4-difluorobenzene	12.541	114	372996	10.000	ppbV	0.00
Standard Area = 355895			Recovery =	104.81%		
67) chlorobenzene-D5	16.891	54	88542	10.000	ppbV	0.00
Standard Area = 89202			Recovery =	99.26%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.240	65	101363	9.681	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.81%		
69) toluene-D8	15.228	98	413990	10.504	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.04%		
90) bromofluorobenzene	18.063	95	207132	10.598	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.98%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	4.280	51	172513	8.333	ppbV	98
3) propylene	4.310	41	112636M6	9.166	ppbV	
4) propane	4.349	29	97876M4	8.022	ppbV	
5) dichlorodifluoromethane	4.418	85	185412	8.902	ppbV	99
6) chloromethane	4.645	50	105489	9.157	ppbV	99
7) Freon-114	4.793	85	265892	9.522	ppbV	99
8) methanol	4.911	31	215170	42.979	ppbV	98
9) vinyl chloride	4.961	62	104623	9.402	ppbV	96
10) 1,3-butadiene	5.158	54	86436	9.883	ppbV	99
11) butane	5.237	43	176217	8.648	ppbV	97
13) bromomethane	5.534	94	86584	9.159	ppbV	96
14) chloroethane	5.790	64	49401	9.745	ppbV	100
15) ethanol	6.014	31	452980	45.537	ppbV	100
16) dichlorofluoromethane	5.942	67	199019	8.578	ppbV	99
17) vinyl bromide	6.269	106	86135	9.258	ppbV	99
18) acrolein	6.453	56	42661	8.641	ppbV	98
19) acetone	6.629	43	875683	45.360	ppbV	99
20) acetonitrile	6.285	41	104348	8.312	ppbV	100
21) trichlorofluoromethane	6.837	101	245813	9.397	ppbV	98
22) isopropyl alcohol	7.005	45	514010	23.300	ppbV	100
23) acrylonitrile	7.253	53	79001M6	8.580	ppbV	
24) pentane	7.309	43	192235	8.512	ppbV	99
25) ethyl ether	7.364	31	158611	8.192	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	7.652	61	186027	9.413	ppbV	99
27) tertiary butyl alcohol	7.780	59	232535	9.223	ppbV	96
28) methylene chloride	7.828	49	151921	9.538	ppbV	99
29) 3-chloropropene	7.972	41	186217	9.587	ppbV	98
30) carbon disulfide	8.148	76	300887	9.374	ppbV	97
31) Freon 113	8.156	101	212278	9.623	ppbV	99
32) trans-1,2-dichloroethene	8.974	61	162897	8.643	ppbV	99
33) 1,1-dichloroethane	9.214	63	209515	9.573	ppbV	98
34) MTBE	9.304	73	305063	9.536	ppbV	99
35) vinyl acetate	9.413	43	332851	11.633	ppbV	100
36) 2-butanone	9.702	43	286682	9.444	ppbV	99
37) cis-1,2-dichloroethene	10.189	61	178391	10.405	ppbV	98
38) Ethyl Acetate	10.470	61	37053	10.135	ppbV	96
39) chloroform	10.527	83	226181	9.685	ppbV	95
40) Tetrahydrofuran	10.996	42	155000M6	8.273	ppbV	
41) 2,2-dichloropropane	10.546	77	190376	8.735	ppbV	99
42) 1,2-dichloroethane	11.362	62	160343	9.423	ppbV	98
44) hexane	10.433	57	182160	8.686	ppbV	100
45) diisopropyl ether	10.442	87	77045	8.240	ppbV	88
46) tert-butyl ethyl ether	11.043	59	347801	8.313	ppbV	99
48) 1,1,1-trichloroethane	11.638	97	258449	8.879	ppbV	98
49) 1,1-dichloropropene	11.989	75	162311	8.698	ppbV	97
50) benzene	12.159	78	319417	8.787	ppbV	100
52) carbon tetrachloride	12.318	117	244463	9.181	ppbV	99
53) cyclohexane	12.456	56	193562	8.629	ppbV	98
54) tert-amyl methyl ether	12.817	73	303549	8.525	ppbV	99
55) dibromomethane	13.040	93	127906	8.804	ppbV	99
56) 1,2-dichloropropane	13.062	63	130270	8.849	ppbV	100
57) bromodichloromethane	13.285	83	264918	9.393	ppbV	99
58) 1,4-dioxane	13.338	88	76514	9.503	ppbV	97
59) trichloroethene	13.327	130	142582	9.495	ppbV	97
60) 2,2,4-trimethylpentane	13.359	57	617165	8.952	ppbV	99
61) methyl methacrylate	13.540	41	179677	8.262	ppbV	98
62) heptane	13.646	43	259479	8.708	ppbV	100
63) cis-1,3-dichloropropene	14.292	75	195989	10.015	ppbV	98
64) 4-methyl-2-pentanone	14.339	43	363899	9.136	ppbV	98
65) trans-1,3-dichloropropene	14.857	75	236469	8.305	ppbV	98
66) 1,1,2-trichloroethane	15.047	97	190833	9.174	ppbV	99
68) toluene	15.318	91	553364	9.347	ppbV	98
71) 1,3-dichloropropane	15.345	76	236937	8.987	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	15.562	43	476251	10.426	ppbV	94
74) dibromochloromethane	15.734	129	379352	9.878	ppbV	99
75) 1,2-dibromoethane	15.960	107	308092	9.914	ppbV	99
76) butyl acetate	16.132	73	57024	9.204	ppbV	98
77) octane	16.204	85	153559	8.863	ppbV	98
78) tetrachloroethene	16.358	166	259734	9.712	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.910	131	162071	9.182	ppbV	99
80) chlorobenzene	16.924	112	318048	9.724	ppbV	99
81) ethylbenzene	17.215	91	523333	9.821	ppbV	99
83) m+p-xylene	17.358	91	819649	19.862	ppbV	99
84) bromoform	17.434	173	251892	9.991	ppbV	99
85) styrene	17.634	104	316307	9.918	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.715	83	313420	10.100	ppbV	100
87) o-xylene	17.720	91	421596	9.938	ppbV	99
88) 1,2,3-trichloropropane	17.815	75	229921	9.018	ppbV	98
89) nonane	17.853	43	356342	8.775	ppbV	100
91) isopropylbenzene	18.153	105	543193	9.335	ppbV	100
92) bromobenzene	18.239	77	295491	9.178	ppbV	99
93) 2-chlorotoluene	18.515	126	139735	9.394	ppbV	99
94) n-propylbenzene	18.529	120	149165	9.250	ppbV	96
95) 4-chlorotoluene	18.567	91	428546	9.028	ppbV	99
96) 4-ethyl toluene	18.634	105	589682M6	9.348	ppbV	
97) 1,3,5-trimethylbenzene	18.686	105	505005	9.658	ppbV	99
98) tert-butylbenzene	18.992	119	481367	9.150	ppbV	99
99) 1,2,4-trimethylbenzene	18.992	105	504689	10.206	ppbV	95
100) decane	19.030	57	351566	9.194	ppbV	100
101) Benzyl Chloride	19.106	91	482093	10.262	ppbV	98
102) 1,3-dichlorobenzene	19.125	146	339794	10.074	ppbV	99
103) 1,4-dichlorobenzene	19.173	146	354164M4	10.149	ppbV	
104) sec-butylbenzene	19.192	105	684273	9.334	ppbV	98
106) p-isopropyltoluene	19.301	119	567084	8.610	ppbV	99
107) 1,2-dichlorobenzene	19.434	146	336530	10.191	ppbV	97
108) n-butylbenzene	19.620	91	594229	9.701	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.782	75	170721	9.518	ppbV	99
112) undecane	19.972	57	408167	9.533	ppbV	99
114) dodecane	20.859	57	445458	10.007	ppbV	98
115) 1,2,4-trichlorobenzene	20.859	180	309888	11.204	ppbV	100
116) naphthalene	20.977	128	708690	10.257	ppbV	99
117) 1,2,3-trichlorobenzene	21.223	180	284328	10.186	ppbV	99
119) hexachlorobutadiene	21.277	225	254370	10.398	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
 Data File : R238833.D
 Acq On : 8 Feb 2016 8:31 am
 Operator : AIRPIAN02:MB
 Sample : CT015-LLSTD10
 Misc : WG863495
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 08 10:05:23 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\R238827.D
 Sub List : Default-ICV-AP2 - All compounds listed

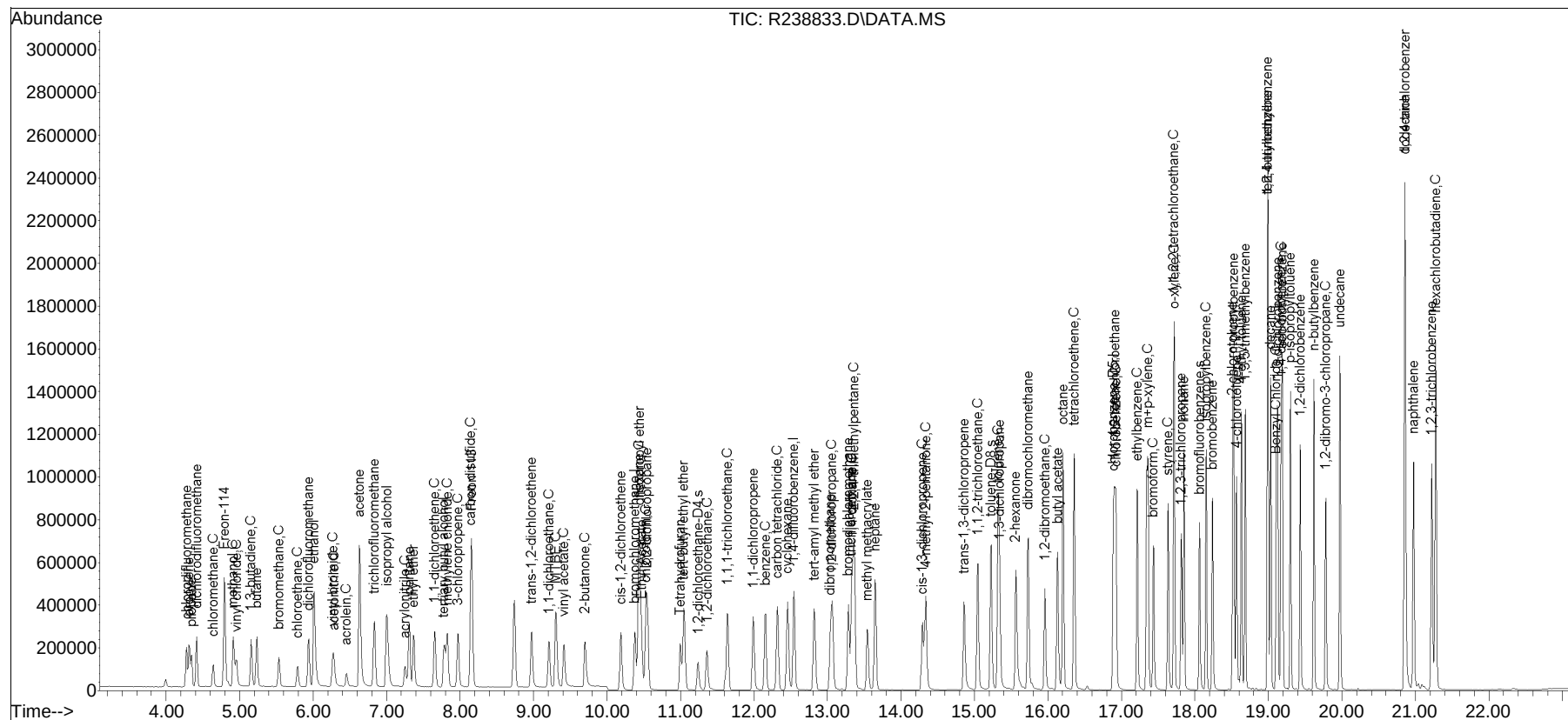
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-ICV-AP2 - All compounds listedAL\R238827.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\
Data File : R238833.D
Acq On : 8 Feb 2016 8:31 am
Operator : AIRPIAN02:MB
Sample : CT015-LLSTD10
Misc : WG863495
ALS Vial : 2 Sample Multiplier: 1

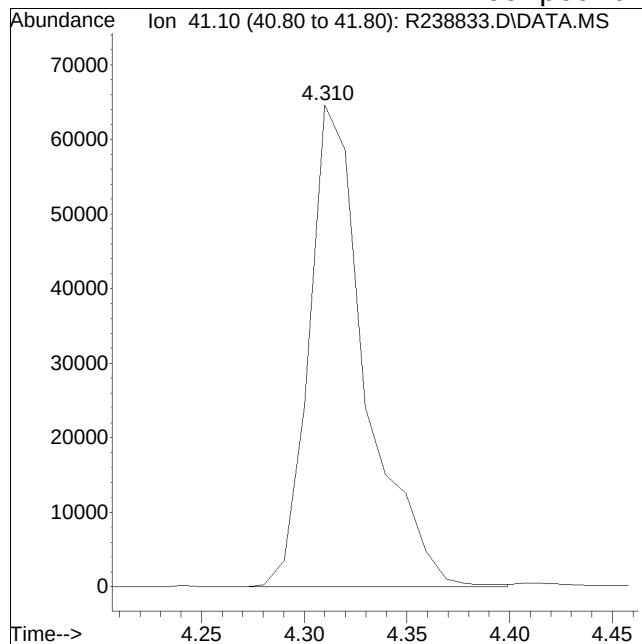
Quant Time: Feb 08 10:05:23 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207T_ICAL\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 10:04:44 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

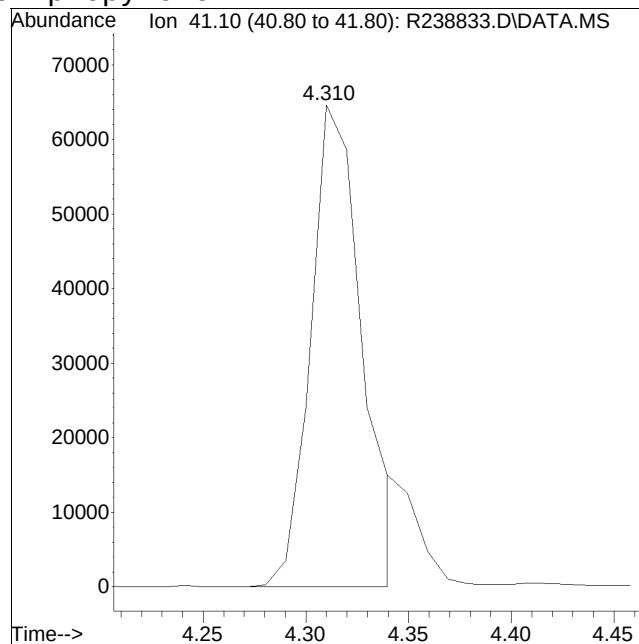
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238833.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 8:31 am Instrument : Air Piano 2
Sample : CT015-LLSTD10 Quant Date : 2/8/2016 10:05 am

Compound #3: propylene



Original Peak Response = 124172

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



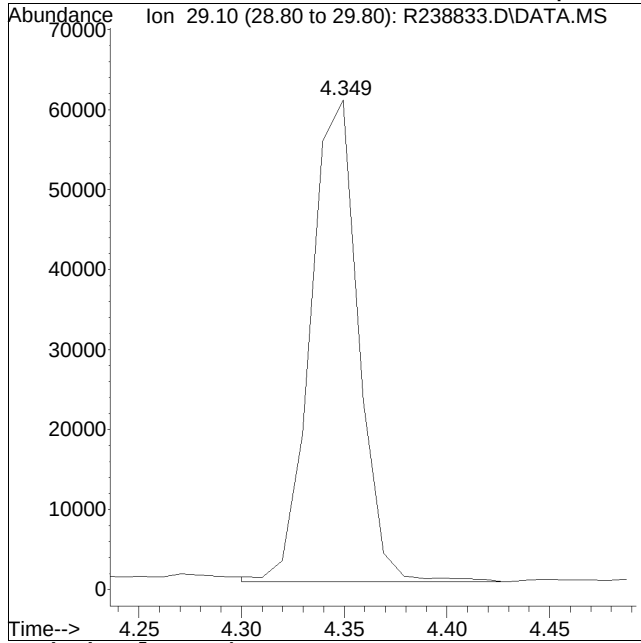
Manual Peak Response = 112636 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

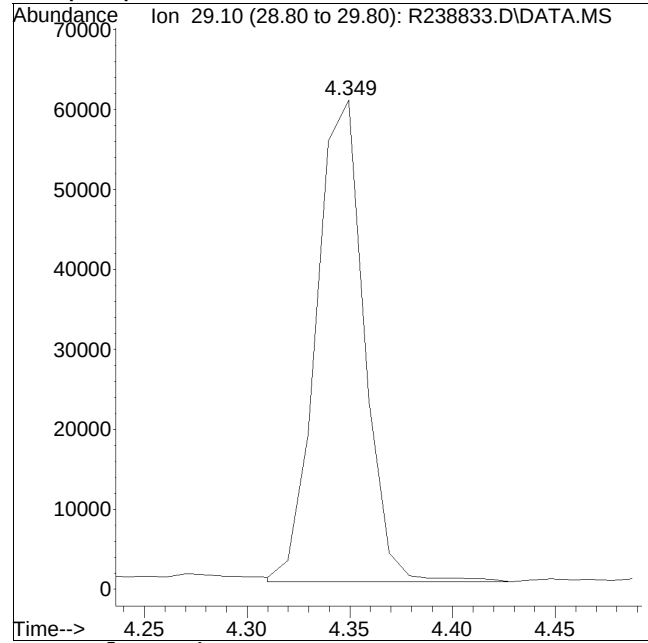
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238833.D
Date Inj'd : 2/8/2016 8:31 am
Sample : CT015-LLSTD10
Method : TALL160207.M
Operator : AIRPIAN02:MB
Instrument : Air Piano 2
Quant Date : 2/8/2016 10:05 am

Compound #4: propane



Original Peak Response = 98032

M4 = Poor automated baseline construction.

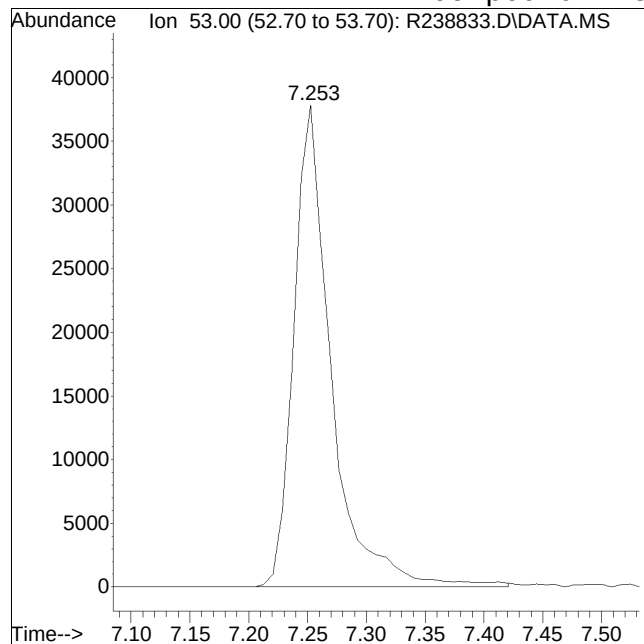


Manual Peak Response = 97876 M4

Manual Integration/Negative Proof Report

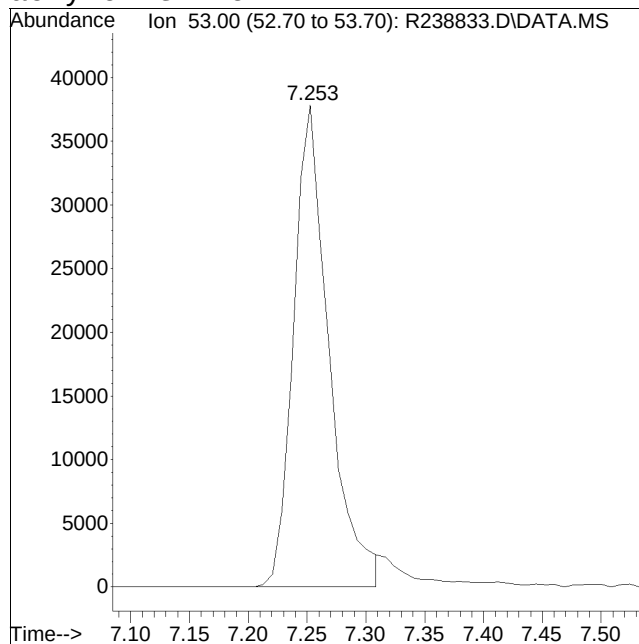
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238833.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 8:31 am Instrument : Air Piano 2
Sample : CT015-LLSTD10 Quant Date : 2/8/2016 10:05 am

Compound #23: acrylonitrile



Original Peak Response = 83823

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

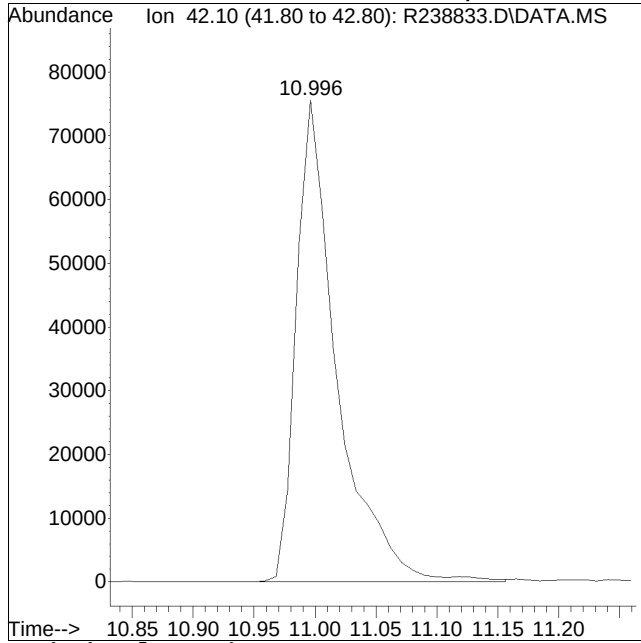


Manual Peak Response = 79001 M6

Manual Integration/Negative Proof Report

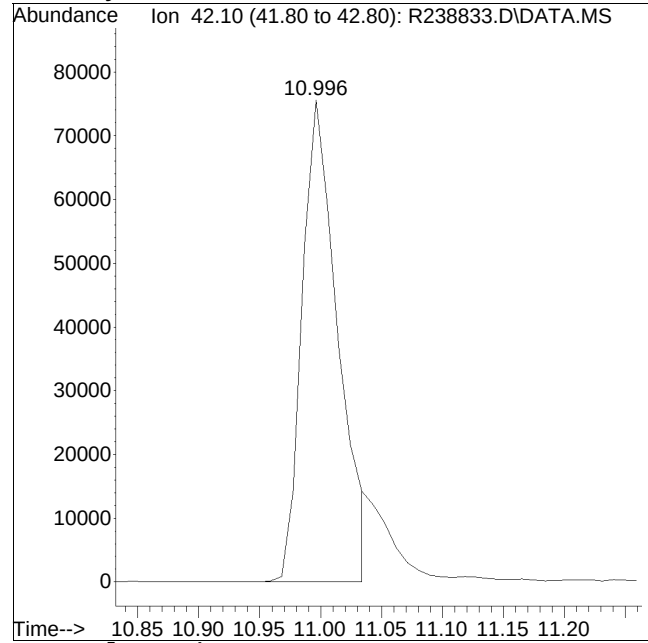
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238833.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 8:31 am Instrument : Air Piano 2
Sample : CT015-LLSTD10 Quant Date : 2/8/2016 10:05 am

Compound #40: Tetrahydrofuran



Original Peak Response = 175863

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

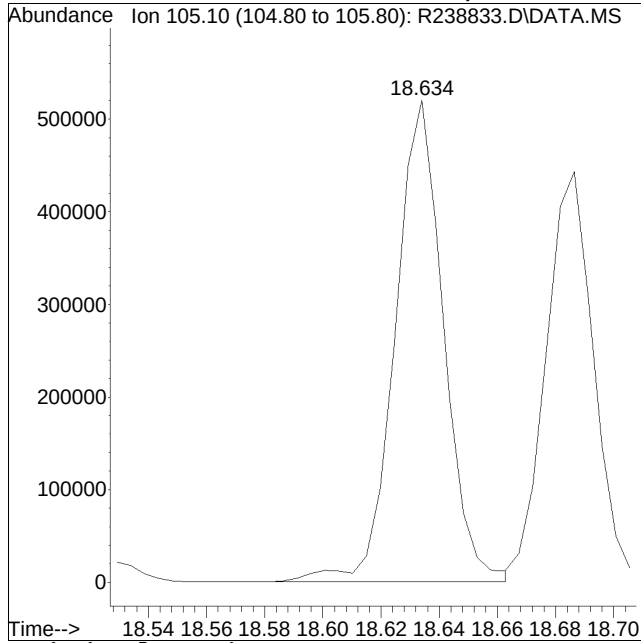


Manual Peak Response = 155000 M6

Manual Integration/Negative Proof Report

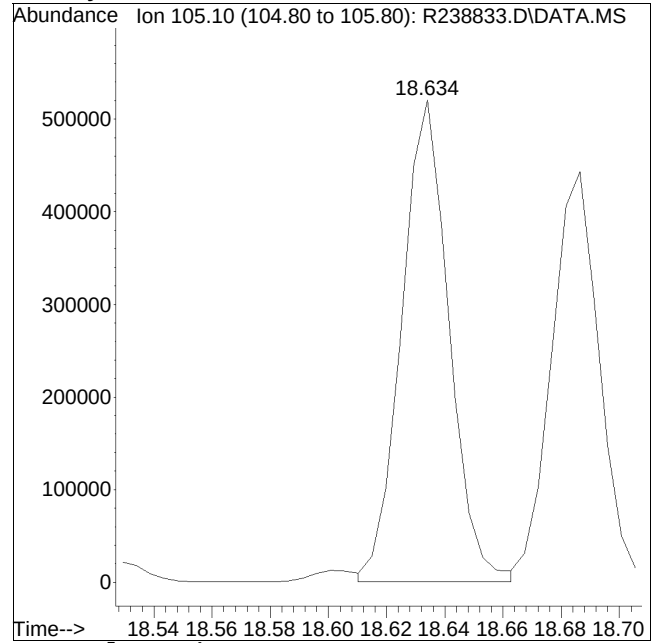
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238833.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 8:31 am Instrument : Air Piano 2
Sample : CT015-LLSTD10 Quant Date : 2/8/2016 10:05 am

Compound #96: 4-ethyl toluene



Original Peak Response = 603918

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



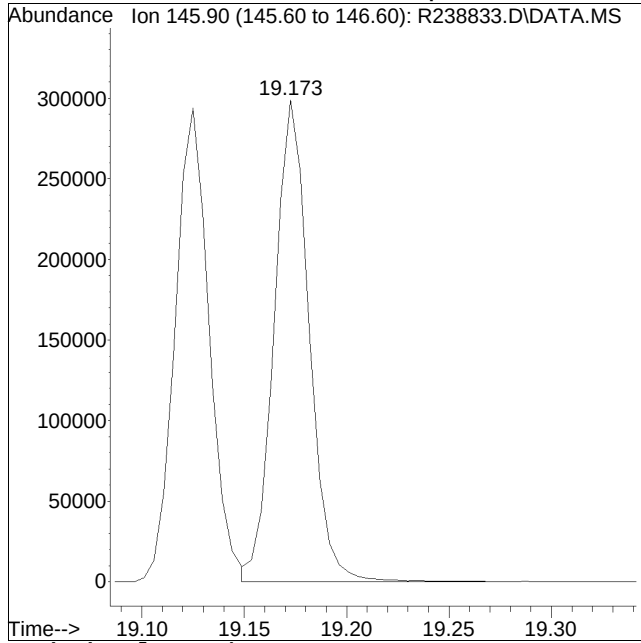
Manual Peak Response = 589682 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

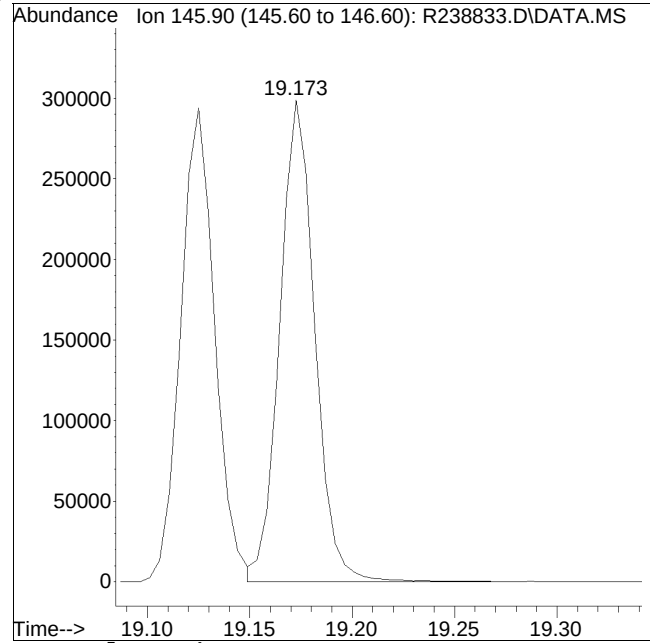
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R238833.D Operator : AIRPIAN02:MB
Date Inj'd : 2/8/2016 8:31 am Instrument : Air Piano 2
Sample : CT015-LLSTD10 Quant Date : 2/8/2016 10:05 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 352934



Manual Peak Response = 354164 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Continuing Calibration Form 7

Client : Langan Engineering & Environmental	Lab Number : L1604136
Project Name : 450 UNION STREET	Project Number : 170301202
Instrument ID : AIRPIANO2	Calibration Date : 02/19/16 13:41
Lab File ID : R239086	Init. Calib. Date(s) : 02/07/16 02/08/16
Sample No : WG866471-2	Init. Calib. Times : 23:39 03:39
Channel :	

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	0	0	30	91	0
chlorodifluoromethane	1.256	1.153	0	8.2	30	90	0
propylene	0.746	0.654	0	12.3	30	92	0
propane	0.74	0.611	0	17.4	30	88	0
dichlorodifluoromethane	1.264	1.1	0	13	30	79	0
chloromethane	0.699	0.605	0	13.4	30	86	0
Freon-114	1.695	1.701	0	-0.4	30	98	0
methanol	0.304	0.242	0	20.4	30	74	0
vinyl chloride	0.675	0.639	0	5.3	30	92	0
1,3-butadiene	0.531	0.499	0	6	30	91	0
butane	1.237	1.033	0	16.5	30	82	0
bromomethane	0.574	0.596	0	-3.8	30	100	0
chloroethane	0.308	0.309	0	-0.3	30	93	0
ethanol	0.604	0.468	0	22.5	30	74	0
dichlorofluoromethane	1.408	1.324	0	6	30	91	0
vinyl bromide	0.565	0.616	0	-9	30	107	0
acrolein	0.3	0.258	0	14	30	85	0
acetone	1.172	1.005	0	14.2	30	81	0
acetonitrile	0.762	0.609	0	20.1	30	81	0
trichlorofluoromethane	1.587	1.613	0	-1.6	30	97	0
isopropyl alcohol	1.339	1.049	0	21.7	30	77	0
acrylonitrile	0.559	0.444	0	20.6	30	82	0
pentane	1.371	1.116	0	18.6	30	82	0
ethyl ether	1.175	1.003	0	14.6	30	84	0
1,1-dichloroethene	1.199	1.152	0	3.9	30	93	0
tertiary butyl alcohol	1.53	1.389	0	9.2	30	87	0
methylene chloride	0.967	0.927	0	4.1	30	92	0
3-chloropropene	1.179	1.069	0	9.3	30	90	0
carbon disulfide	1.948	2.023	0	-3.9	30	98	0
Freon 113	1.339	1.42	0	-6	30	100	0
trans-1,2-dichloroethene	1.144	1.137	0	0.6	30	94	0
1,1-dichloroethane	1.328	1.335	0	-0.5	30	96	0
MTBE	1.941	1.954	0	-0.7	30	98	0
vinyl acetate	1.736	1.711	0	1.4	30	91	0
2-butanone	1.842	1.767	0	4.1	30	91	0
cis-1,2-dichloroethene	1.04	1.004	0	3.5	30	93	0
Ethyl Acetate	0.222	0.232	0	-4.5	30	95	0
chloroform	1.417	1.472	0	-3.9	30	100	0
Tetrahydrofuran	1.137	0.994	0	12.6	30	88	0
2,2-dichloropropane	1.323	1.281	0	3.2	30	93	0
1,2-dichloroethane	1.033	1.023	0	1	30	92	0
1,4-difluorobenzene	1	1	0	0	30	104	0
hexane	0.562	0.471	0	16.2	30	94	0
diisopropyl ether	0.251	0.215	0	14.3	30	99	0
tert-butyl ethyl ether	1.122	0.927	0	17.4	30	93	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Instrument ID	: AIRPIANO2	Calibration Date	: 02/19/16 13:41
Lab File ID	: R239086	Init. Calib. Date(s)	: 02/07/16 02/08/16
Sample No	: WG866471-2	Init. Calib. Times	: 23:39 03:39
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,1-trichloroethane	0.78	0.669	0	14.2	30	98	0
1,1-dichloropropene	0.5	0.419	0	16.2	30	95	0
benzene	0.975	0.86	0	11.8	30	101	0
carbon tetrachloride	0.714	0.621	0	13	30	98	0
cyclohexane	0.601	0.497	0	17.3	30	95	0
tert-amyl methyl ether	0.955	0.82	0	14.1	30	97	0
dibromomethane	0.39	0.353	0	9.5	30	98	0
1,2-dichloropropane	0.395	0.34	0	13.9	30	98	-.01
bromodichloromethane	0.756	0.703	0	7	30	104	0
1,4-dioxane	0.216	0.197	0	8.8	30	99	0
trichloroethene	0.403	0.406	0	-0.7	30	108	0
2,2,4-trimethylpentane	1.848	1.664	0	10	30	100	0
methyl methacrylate	0.583	0.447	0	23.3	30	86	0
heptane	0.799	0.652	0	18.4	30	91	0
cis-1,3-dichloropropene	0.525	0.471	0	10.3	30	96	0
4-methyl-2-pentanone	1.068	0.886	0	17	30	91	0
trans-1,3-dichloropropene	0.763	0.652	0	14.5	30	93	0
1,1,2-trichloroethane	0.558	0.499	0	10.6	30	101	0
chlorobenzene-D5	1	1	0	0	30	90	0
toluene	6.687	6.711	0	-0.4	30	95	0
1,3-dichloropropane	2.978	3.013	0	-1.2	30	95	0
2-hexanone	5.159	5.33	0	-3.3	30	89	0
dibromochloromethane	4.337	4.755	0	-9.6	30	104	0
1,2-dibromoethane	3.51	3.75	0	-6.8	30	101	0
butyl acetate	0.7	0.724	0	-3.4	30	96	0
octane	1.957	1.988	0	-1.6	30	96	0
tetrachloroethene	3.02	3.453	0	-14.3	30	109	0
1,1,1,2-tetrachloroethane	1.994	2.154	0	-8	30	102	0
chlorobenzene	3.694	3.986	0	-7.9	30	103	0
ethylbenzene	6.018	6.378	0	-6	30	101	0
m+p-xylene	4.661	4.913	0	-5.4	30	99	0
bromoform	2.847	3.317	0	-16.5	30	107	0
styrene	3.602	3.931	0	-9.1	30	102	0
1,1,2,2-tetrachloroethane	3.505	3.751	0	-7	30	99	0
o-xylene	4.791	5.156	0	-7.6	30	101	0
1,2,3-trichloropropane	2.879	2.89	0	-0.4	30	95	0
nonane	4.586	4.355	0	5	30	91	0
isopropylbenzene	6.572	6.977	0	-6.2	30	102	0
bromobenzene	3.636	3.673	0	-1	30	96	0
2-chlorotoluene	1.68	1.898	0	-13	30	105	0
n-propylbenzene	1.821	2.017	0	-10.8	30	103	0
4-chlorotoluene	5.361	5.472	0	-2.1	30	97	0
4-ethyl toluene	7.125	7.904	0	-10.9	30	104	0
1,3,5-trimethylbenzene	5.906	6.206	0	-5.1	30	100	0
tert-butylbenzene	5.942	6.525	0	-9.8	30	103	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Instrument ID	: AIRPIANO2	Calibration Date	: 02/19/16 13:41
Lab File ID	: R239086	Init. Calib. Date(s)	: 02/07/16 02/08/16
Sample No	: WG866471-2	Init. Calib. Times	: 23:39 03:39
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4-trimethylbenzene	5.585	6.157	0	-10.2	30	101	0
decane	4.319	4.332	0	-0.3	30	93	0
Benzyl Chloride	5.306	5.684	0	-7.1	30	96	0
1,3-dichlorobenzene	3.81	4.409	0	-15.7	30	107	0
1,4-dichlorobenzene	3.941	4.478	0	-13.6	30	106	0
sec-butylbenzene	8.28	8.947	0	-8.1	30	101	0
p-isopropyltoluene	7.438	8.072	0	-8.5	30	100	0
1,2-dichlorobenzene	3.73	4.206	0	-12.8	30	105	0
n-butylbenzene	6.918	7.416	0	-7.2	30	97	0
1,2-dibromo-3-chloropropa	2.026	1.984	0	2.1	30	88	0
undecane	4.836	4.977	0	-2.9	30	90	0
dodecane	5.028	5.257	0	-4.6	30	84	0
1,2,4-trichlorobenzene	3.124	3.813	0	-22.1	30	101	0
naphthalene	7.803	8.556	0	-9.7	30	94	0
1,2,3-trichlorobenzene	3.153	3.501	0	-11	30	96	0
hexachlorobutadiene	2.763	3.208	0	-16.1	30	101	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	91	0.00
2	chlorodifluoromethane	1.256	1.153	8.2	90	0.00
3	propylene	0.746	0.654	12.3	92	0.00
4	propane	0.740	0.611	17.4	88	0.00
5	dichlorodifluoromethane	1.264	1.100	13.0	79	0.00
6 C	chloromethane	0.699	0.605	13.4	86	0.00
7	Freon-114	1.695	1.701	-0.4	98	0.00
8 C	methanol	0.304	0.242	20.4	74	0.00
9 C	vinyl chloride	0.675	0.639	5.3	92	0.00
10 C	1,3-butadiene	0.531	0.499	6.0	91	0.00
11	butane	1.237	1.033	16.5	82	0.00
13 C	bromomethane	0.574	0.596	-3.8	100	0.00
14 C	chloroethane	0.308	0.309	-0.3	93	0.00
15	ethanol	0.604	0.468	22.5	74	0.00
16	dichlorofluoromethane	1.408	1.324	6.0	91	0.00
17 C	vinyl bromide	0.565	0.616	-9.0	107	0.00
18 C	acrolein	0.300	0.258	14.0	85	0.00
19	acetone	1.172	1.005	14.2	81	0.00
20 C	acetonitrile	0.762	0.609	20.1	81	0.00
21	trichlorofluoromethane	1.587	1.613	-1.6	97	0.00
22	isopropyl alcohol	1.339	1.049	21.7	77	0.00
23 C	acrylonitrile	0.559	0.444	20.6	82	0.00
24	pentane	1.371	1.116	18.6	82	0.00
25	ethyl ether	1.175	1.003	14.6	84	0.00
26 C	1,1-dichloroethene	1.199	1.152	3.9	93	0.00
27	tertiary butyl alcohol	1.530	1.389	9.2	87	0.00
28 C	methylene chloride	0.967	0.927	4.1	92	0.00
29 C	3-chloropropene	1.179	1.069	9.3	90	0.00
30 C	carbon disulfide	1.948	2.023	-3.9	98	0.00
31	Freon 113	1.339	1.420	-6.0	100	0.00
32	trans-1,2-dichloroethene	1.144	1.137	0.6	94	0.00
33 C	1,1-dichloroethane	1.328	1.335	-0.5	96	0.00
34 C	MTBE	1.941	1.954	-0.7	98	0.00
35 C	vinyl acetate	1.736	1.711	1.4	91	0.00
36 C	2-butanone	1.842	1.767	4.1	91	0.00
37	cis-1,2-dichloroethene	1.040	1.004	3.5	93	0.00
38	Ethyl Acetate	0.222	0.232	-4.5	95	0.00
39 C	chloroform	1.417	1.472	-3.9	100	0.00
40	Tetrahydrofuran	1.137	0.994	12.6	88	0.00

TALL160207.M Sat Feb 20 10:17:48 2016

1

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	1.323	1.281	3.2	93	0.00
42 C	1,2-dichloroethane	1.033	1.023	1.0	92	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00
44 C	hexane	0.562	0.471	16.2	94	0.00
45	diisopropyl ether	0.251	0.215	14.3	99	0.00
46	tert-butyl ethyl ether	1.122	0.927	17.4	93	0.00
48 C	1,1,1-trichloroethane	0.780	0.669	14.2	98	0.00
49	1,1-dichloropropene	0.500	0.419	16.2	95	0.00
50 C	benzene	0.975	0.860	11.8	101	0.00
52 C	carbon tetrachloride	0.714	0.621	13.0	98	0.00
53	cyclohexane	0.601	0.497	17.3	95	0.00
54	tert-amyl methyl ether	0.955	0.820	14.1	97	0.00
55	dibromomethane	0.390	0.353	9.5	98	0.00
56 C	1,2-dichloropropane	0.395	0.340	13.9	98	-0.01
57	bromodichloromethane	0.756	0.703	7.0	104	0.00
58 C	1,4-dioxane	0.216	0.197	8.8	99	0.00
59 C	trichloroethene	0.403	0.406	-0.7	108	0.00
60 C	2,2,4-trimethylpentane	1.848	1.664	10.0	100	0.00
61	methyl methacrylate	0.583	0.447	23.3	86	0.00
62	heptane	0.799	0.652	18.4	91	0.00
63 C	cis-1,3-dichloropropene	0.525	0.471	10.3	96	0.00
64 C	4-methyl-2-pentanone	1.068	0.886	17.0	91	0.00
65	trans-1,3-dichloropropene	0.763	0.652	14.5	93	0.00
66 C	1,1,2-trichloroethane	0.558	0.499	10.6	101	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	90	0.00
68 C	toluene	6.687	6.711	-0.4	95	0.00
71	1,3-dichloropropane	2.978	3.013	-1.2	95	0.00
72	2-hexanone	5.159	5.330	-3.3	89	0.00
74	dibromochloromethane	4.337	4.755	-9.6	104	0.00
75 C	1,2-dibromoethane	3.510	3.750	-6.8	101	0.00
76	butyl acetate	0.700	0.724	-3.4	96	0.00
77	octane	1.957	1.988	-1.6	96	0.00
78 C	tetrachloroethene	3.020	3.453	-14.3	109	0.00
79	1,1,1,2-tetrachloroethane	1.994	2.154	-8.0	102	0.00
80 C	chlorobenzene	3.694	3.986	-7.9	103	0.00
81 C	ethylbenzene	6.018	6.378	-6.0	101	0.00
83 C	m+p-xylene	4.661	4.913	-5.4	99	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	2.847	3.317	-16.5	107	0.00
85 C	styrene	3.602	3.931	-9.1	102	0.00
86 C	1,1,2,2-tetrachloroethane	3.505	3.751	-7.0	99	0.00
87 C	o-xylene	4.791	5.156	-7.6	101	0.00
88	1,2,3-trichloropropane	2.879	2.890	-0.4	95	0.00
89	nonane	4.586	4.355	5.0	91	0.00
91 C	isopropylbenzene	6.572	6.977	-6.2	102	0.00
92	bromobenzene	3.636	3.673	-1.0	96	0.00
93	2-chlorotoluene	1.680	1.898	-13.0	105	0.00
94	n-propylbenzene	1.821	2.017	-10.8	103	0.00
95	4-chlorotoluene	5.361	5.472	-2.1	97	0.00
96	4-ethyl toluene	7.125	7.904	-10.9	104	0.00
97	1,3,5-trimethylbenzene	5.906	6.206	-5.1	100	0.00
98	tert-butylbenzene	5.942	6.525	-9.8	103	0.00
99	1,2,4-trimethylbenzene	5.585	6.157	-10.2	101	0.00
100	decane	4.319	4.332	-0.3	93	0.00
101 C	Benzyl Chloride	5.306	5.684	-7.1	96	0.00
102	1,3-dichlorobenzene	3.810	4.409	-15.7	107	0.00
103 C	1,4-dichlorobenzene	3.941	4.478	-13.6	106	0.00
104	sec-butylbenzene	8.280	8.947	-8.1	101	0.00
106	p-isopropyltoluene	7.438	8.072	-8.5	100	0.00
107	1,2-dichlorobenzene	3.730	4.206	-12.8	105	0.00
108	n-butylbenzene	6.918	7.416	-7.2	97	0.00
111 C	1,2-dibromo-3-chloropropane	2.026	1.984	2.1	88	0.00
112	undecane	4.836	4.977	-2.9	90	0.00
114	dodecane	5.028	5.257	-4.6	84	0.00
115 C	1,2,4-trichlorobenzene	3.124	3.813	-22.1	101	0.00
116	naphthalene	7.803	8.556	-9.7	94	0.00
117	1,2,3-trichlorobenzene	3.153	3.501	-11.0	96	0.00
119 C	hexachlorobutadiene	2.763	3.208	-16.1	101	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.38	49	147221	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.54	114	368790	10.000	ppbV	0.00
67) chlorobenzene-D5	16.89	54	80342	10.000	ppbV	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	4.28	51	169787	9.180	ppbV	99
3) propylene	4.32	41	96274M6	8.769	ppbV	
4) propane	4.35	29	89984	8.255	ppbV	97
5) dichlorodifluoromethane	4.42	85	161971	8.704	ppbV	99
6) chloromethane	4.65	50	89022	8.649	ppbV	100
7) Freon-114	4.79	85	250442	10.038	ppbV	94
8) methanol	4.91	31	178201	39.841	ppbV	98
9) vinyl chloride	4.96	62	94135	9.468	ppbV	96
10) 1,3-butadiene	5.16	54	73517	9.408	ppbV	89
11) butane	5.24	43	152020	8.350	ppbV	99
13) bromomethane	5.53	94	87772	10.392	ppbV	99
14) chloroethane	5.79	64	45463	10.038	ppbV	98
15) ethanol	6.01	31	344854	38.803	ppbV	95
16) dichlorofluoromethane	5.94	67	194968	9.405	ppbV	99
17) vinyl bromide	6.27	106	90703	10.912	ppbV	98
18) acrolein	6.45	56	38020	8.620	ppbV	95
19) acetone	6.63	43	739622	42.882	ppbV	97
20) acetonitrile	6.29	41	89721	7.999	ppbV	99
21) trichlorofluoromethane	6.84	101	237497	10.162	ppbV	98
22) isopropyl alcohol	7.00	45	386158	19.593	ppbV	99
23) acrylonitrile	7.25	53	65363M6	7.946	ppbV	
24) pentane	7.31	43	164363	8.146	ppbV	96
25) ethyl ether	7.36	31	147711	8.539	ppbV #	89
26) 1,1-dichloroethene	7.66	61	169641	9.608	ppbV	97
27) tertiary butyl alcohol	7.78	59	204428	9.075	ppbV	98
28) methylene chloride	7.83	49	136484	9.591	ppbV	94
29) 3-chloropropene	7.97	41	157437	9.072	ppbV	98
30) carbon disulfide	8.15	76	297874	10.387	ppbV	93
31) Freon 113	8.16	101	208990	10.604	ppbV	95
32) trans-1,2-dichloroethene	8.97	61	167416	9.943	ppbV	95
33) 1,1-dichloroethane	9.21	63	196604	10.055	ppbV	98
34) MTBE	9.30	73	287722	10.066	ppbV	96
35) vinyl acetate	9.41	43	251966	9.857	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 2-butanone	9.69	43	260091	9.590	ppbV	98
37) cis-1,2-dichloroethene	10.19	61	147859	9.653	ppbV	93
38) Ethyl Acetate	10.47	61	34092	10.438	ppbV	76
39) chloroform	10.53	83	216639	10.383	ppbV	94
40) Tetrahydrofuran	11.00	42	146410M6	8.746	ppbV	
41) 2,2-dichloropropane	10.55	77	188612	9.686	ppbV	95
42) 1,2-dichloroethane	11.36	62	150662	9.910	ppbV	99
44) hexane	10.43	57	173670	8.375	ppbV	94
45) diisopropyl ether	10.44	87	79445	8.594	ppbV	84
46) tert-butyl ethyl ether	11.04	59	341773	8.262	ppbV	99
48) 1,1,1-trichloroethane	11.64	97	246864	8.578	ppbV	96
49) 1,1-dichloropropene	11.99	75	154514	8.374	ppbV	92
50) benzene	12.16	78	317231	8.826	ppbV	98
52) carbon tetrachloride	12.32	117	229175	8.705	ppbV	98
53) cyclohexane	12.46	56	183429	8.271	ppbV	96
54) tert-amyl methyl ether	12.82	73	302404	8.589	ppbV	97
55) dibromomethane	13.04	93	130079	9.055	ppbV	93
56) 1,2-dichloropropane	13.06	63	125489	8.622	ppbV	93
57) bromodichloromethane	13.28	83	259391	9.302	ppbV	99
58) 1,4-dioxane	13.34	88	72790	9.143	ppbV	97
59) trichloroethene	13.33	130	149764	10.087	ppbV	97
60) 2,2,4-trimethylpentane	13.36	57	613485	9.000	ppbV	97
61) methyl methacrylate	13.54	41	164778	7.663	ppbV	93
62) heptane	13.65	43	240550	8.165	ppbV	95
63) cis-1,3-dichloropropene	14.29	75	173819	8.983	ppbV	96
64) 4-methyl-2-pentanone	14.34	43	326717	8.297	ppbV	96
65) trans-1,3-dichloropropene	14.86	75	240382	8.538	ppbV	95
66) 1,1,2-trichloroethane	15.05	97	184171	8.955	ppbV	94
68) toluene	15.32	91	539163	10.036	ppbV	100
71) 1,3-dichloropropane	15.35	76	242033	10.117	ppbV	95
72) 2-hexanone	15.56	43	428231	10.332	ppbV #	98
74) dibromochloromethane	15.73	129	382004	10.962	ppbV	98
75) 1,2-dibromoethane	15.96	107	301284	10.684	ppbV	99
76) butyl acetate	16.12	73	58146	10.343	ppbV	85
77) octane	16.20	85	159746	10.162	ppbV	84
78) tetrachloroethene	16.36	166	277448	11.434	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.91	131	173024	10.803	ppbV	97
80) chlorobenzene	16.92	112	320204	10.789	ppbV	96
81) ethylbenzene	17.22	91	512427	10.598	ppbV	99
83) m+p-xylene	17.36	91	789489	21.084	ppbV	94
84) bromoform	17.44	173	266515	11.650	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239086.D
 Acq On : 19 Feb 2016 1:41 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-2,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 14:10:16 2016
 Quant Method : O:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85)	styrene	17.63	104	315822	10.913	ppbV	98
86)	1,1,2,2-tetrachloroethane	17.72	83	301351	10.702	ppbV	99
87)	o-xylene	17.72	91	414225	10.761	ppbV	99
88)	1,2,3-trichloropropane	17.82	75	232207	10.037	ppbV	94
89)	nonane	17.85	43	349909	9.496	ppbV #	96
91)	isopropylbenzene	18.15	105	560576	10.617	ppbV	98
92)	bromobenzene	18.24	77	295097	10.101	ppbV	92
93)	2-chlorotoluene	18.52	126	152515	11.300	ppbV	98
94)	n-propylbenzene	18.53	120	162020	11.072	ppbV	88
95)	4-chlorotoluene	18.57	91	439642	10.207	ppbV	98
96)	4-ethyl toluene	18.63	105	635030	11.094	ppbV	98
97)	1,3,5-trimethylbenzene	18.69	105	498581	10.508	ppbV	97
98)	tert-butylbenzene	18.99	119	524241	10.982	ppbV	98
99)	1,2,4-trimethylbenzene	18.99	105	494696	11.025	ppbV	97
100)	decane	19.03	57	348052	10.031	ppbV	97
101)	Benzyl Chloride	19.11	91	456631	10.712	ppbV	95
102)	1,3-dichlorobenzene	19.13	146	354212	11.573	ppbV	94
103)	1,4-dichlorobenzene	19.17	146	359753	11.362	ppbV	93
104)	sec-butylbenzene	19.19	105	718799	10.805	ppbV	99
106)	p-isopropyltoluene	19.30	119	648527	10.852	ppbV	96
107)	1,2-dichlorobenzene	19.43	146	337951	11.279	ppbV	94
108)	n-butylbenzene	19.62	91	595790	10.720	ppbV	97
111)	1,2-dibromo-3-chloropr...	19.78	75	159422	9.795	ppbV	90
112)	undecane	19.97	57	399853	10.292	ppbV #	99
114)	dodecane	20.86	57	422356	10.456	ppbV	97
115)	1,2,4-trichlorobenzene	20.86	180	306341	12.206	ppbV	96
116)	naphthalene	20.98	128	687402	10.965	ppbV	98
117)	1,2,3-trichlorobenzene	21.22	180	281261	11.105	ppbV	95
119)	hexachlorobutadiene	21.28	225	257731	11.611	ppbV	96

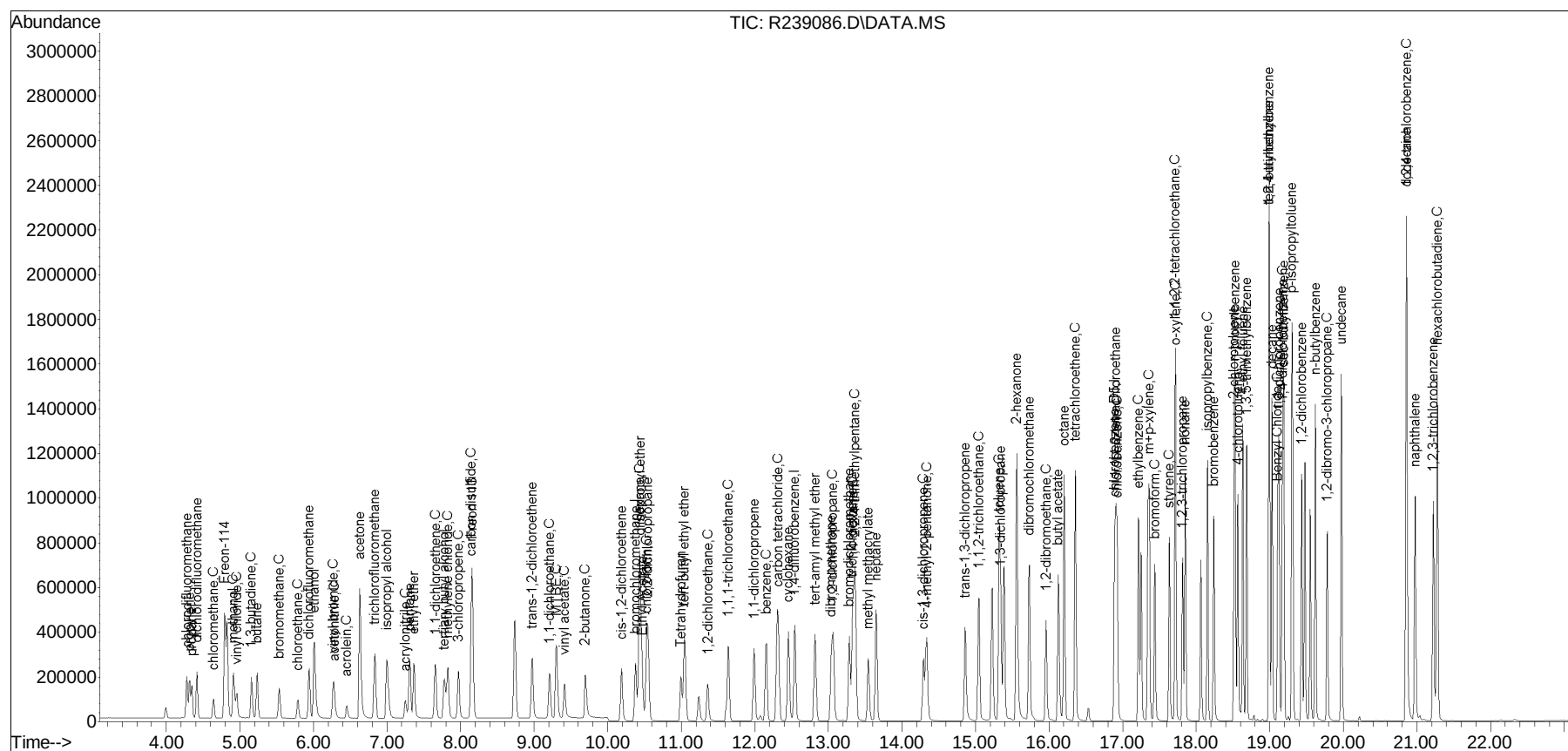
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
Data File : R239086.D
Acq On    : 19 Feb 2016    1:41 pm
Operator  : AIRPIAN02:RY
Sample    : WG866471-2,3,250,250
Misc      : WG866471,ICAL12008
ALS Vial  : 2    Sample Multiplier: 1
```

Quant Time: Feb 19 14:10:16 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 10:04:44 2016
Response via : Initial Calibration

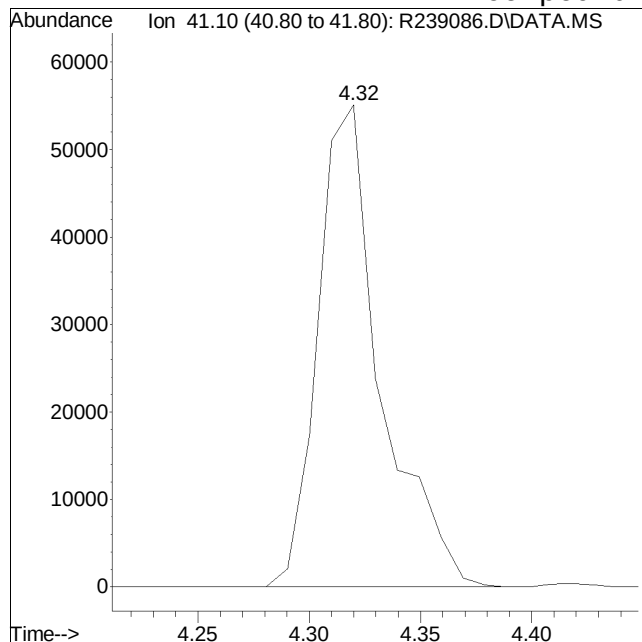
Sub List : Default-LCS-AP2 - All compounds listed



Manual Integration/Negative Proof Report

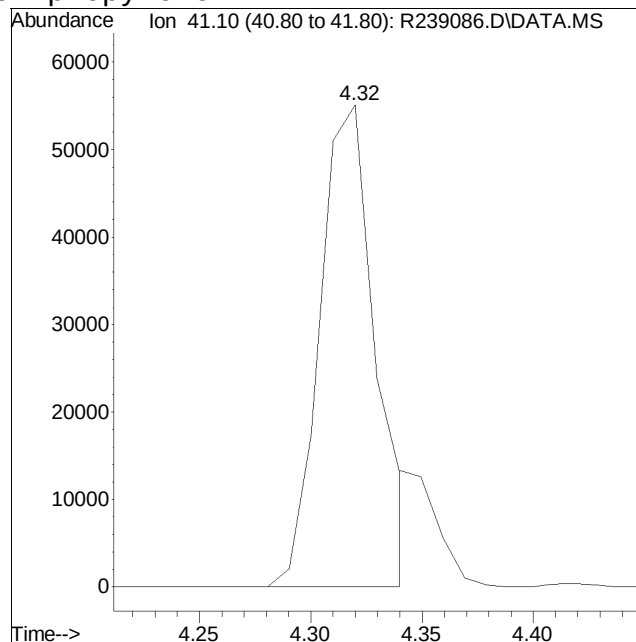
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239086.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 1:41 pm Instrument : Air Piano 2
Sample : WG866471-2, 3, 250, 250 Quant Date : 2/19/2016 2:09 pm

Compound #3: propylene



Original Peak Response = 107828

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

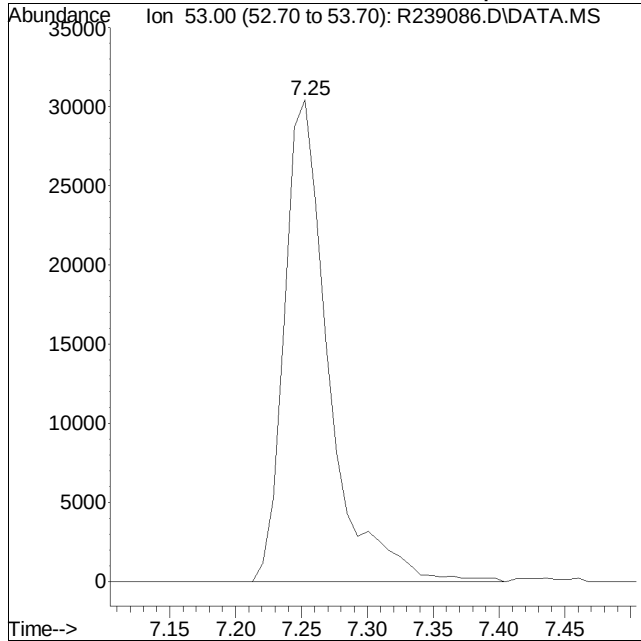


Manual Peak Response = 96274 M6

Manual Integration/Negative Proof Report

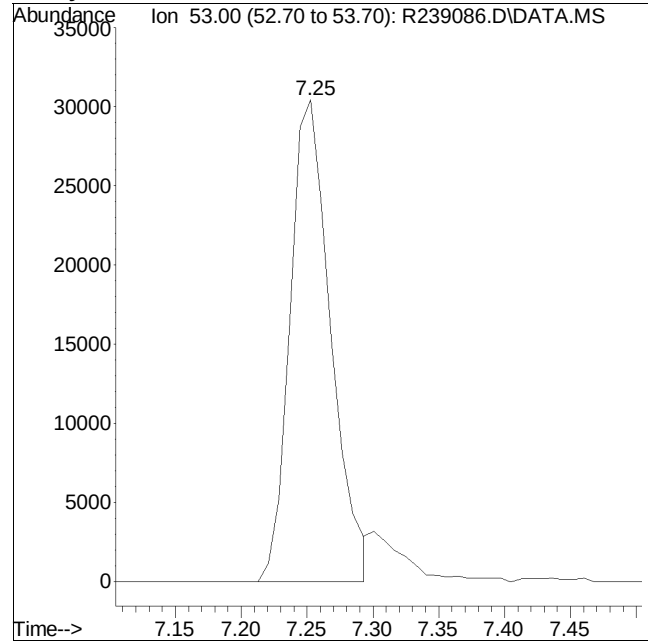
Data Path : O:\Forensics\Data\AIR2\20160207.M
Data File : R239086.D
Date Inj'd : 2/19/2016 1:41 pm
Sample : WG866471-2,3,250,250
Method : TALL160207.M
Operator : AIRPIAN02:RY
Instrument : Air Piano 2
Quant Date : 2/19/2016 2:09 pm

Compound #23: acrylonitrile



Original Peak Response = 71601

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

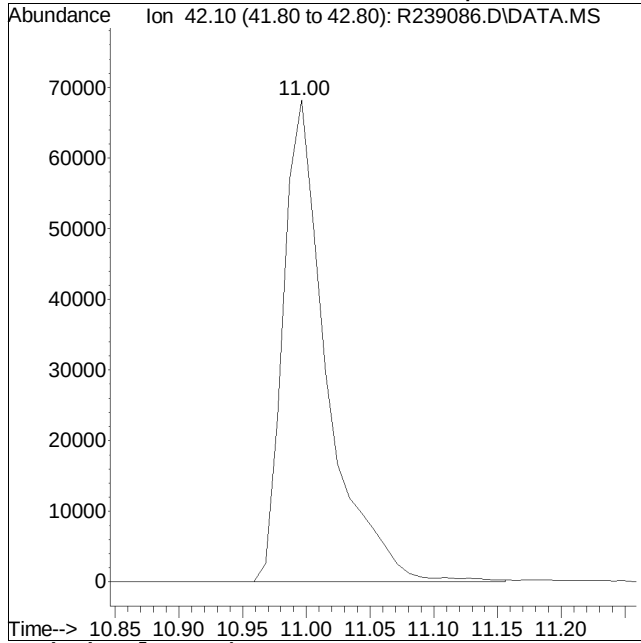


Manual Peak Response = 65363 M6

Manual Integration/Negative Proof Report

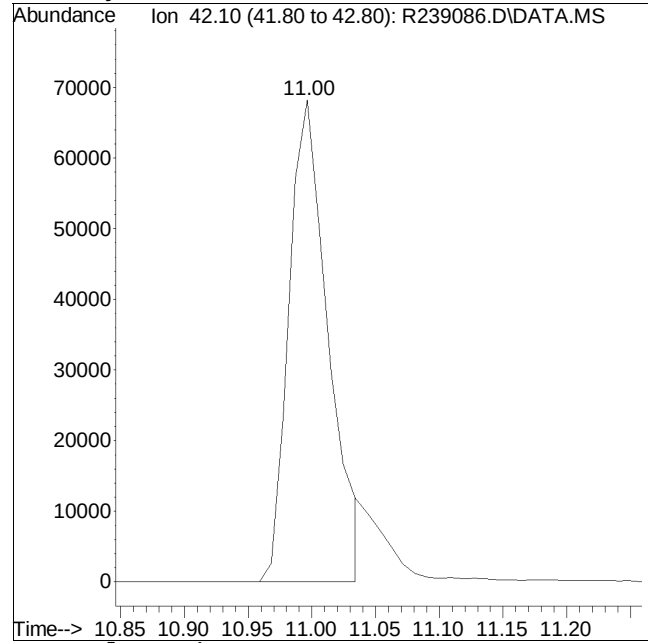
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239086.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 1:41 pm Instrument : Air Piano 2
Sample : WG866471-2,3,250,250 Quant Date : 2/19/2016 2:09 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 163314

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



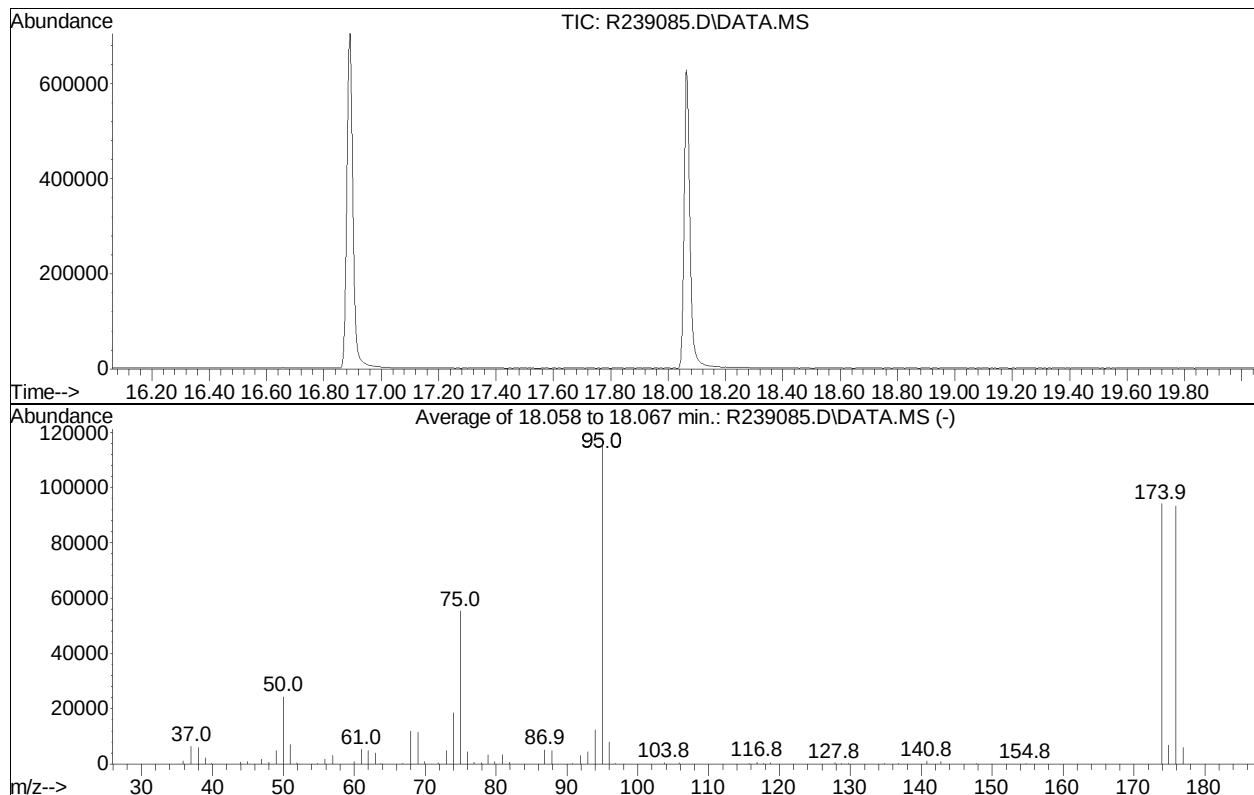
Manual Peak Response = 146410 M6

BFB

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239085.D
 Acq On : 19 Feb 2016 1:04 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-1,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Mon Feb 08 10:04:44 2016



AutoFind: Scans 1777, 1778, 1779; Background Corrected with Scan 1770

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.1	24413	PASS
75	95	30	66	47.9	55261	PASS
95	95	100	100	100.0	115472	PASS
96	95	5	9	7.0	8026	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.7	94304	PASS
175	174	4	9	7.4	6981	PASS
176	174	93	101	98.8	93216	PASS
177	176	5	9	6.6	6139	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239089.D
 Acq On : 19 Feb 2016 4:28 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-4,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:57:25 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.37	49	138625	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		94.16%	
43) 1,4-difluorobenzene	12.54	114	346466	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		93.95%	
67) chlorobenzene-D5	16.89	54	72876	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		90.71%	

System Monitoring Compounds

Target Compounds			Qvalue
3) propylene	4.32	0	N.D.
5) dichlorodifluoromethane	0.00	0	N.D.
6) chloromethane	0.00	0	N.D.
7) Freon-114	0.00	0	N.D.
9) vinyl chloride	0.00	0	N.D.
10) 1,3-butadiene	0.00	0	N.D.
13) bromomethane	0.00	0	N.D.
14) chloroethane	0.00	0	N.D.
15) ethanol	0.00	0	N.D.
17) vinyl bromide	0.00	0	N.D.
19) acetone	0.00	0	N.D.
21) trichlorofluoromethane	0.00	0	N.D.
22) isopropyl alcohol	0.00	0	N.D.
26) 1,1-dichloroethene	0.00	0	N.D.
27) tertiary butyl alcohol	0.00	0	N.D.
28) methylene chloride	7.84	0	N.D.
29) 3-chloropropene	0.00	0	N.D.
30) carbon disulfide	0.00	0	N.D.
31) Freon 113	0.00	0	N.D.
32) trans-1,2-dichloroethene	0.00	0	N.D.
33) 1,1-dichloroethane	0.00	0	N.D.
34) MTBE	0.00	0	N.D.
35) vinyl acetate	9.44	0	N.D.
36) 2-butanone	0.00	0	N.D.
37) cis-1,2-dichloroethene	0.00	0	N.D.
38) Ethyl Acetate	0.00	0	N.D.
39) chloroform	0.00	0	N.D.
40) Tetrahydrofuran	0.00	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239089.D
 Acq On : 19 Feb 2016 4:28 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-4,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:57:25 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-dichloroethane	0.00		0		N.D.	
44) hexane	0.00		0		N.D.	
48) 1,1,1-trichloroethane	0.00		0		N.D.	
50) benzene	0.00		0		N.D.	
52) carbon tetrachloride	0.00		0		N.D.	
53) cyclohexane	0.00		0		N.D.	d
56) 1,2-dichloropropane	0.00		0		N.D.	
57) bromodichloromethane	0.00		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
59) trichloroethene	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	0.00		0		N.D.	
62) heptane	0.00		0		N.D.	
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	0.00		0		N.D.	
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	0.00		0		N.D.	
72) 2-hexanone	0.00		0		N.D.	
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
78) tetrachloroethene	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	
81) ethylbenzene	0.00		0		N.D.	
83) m+p-xylene	0.00		0		N.D.	
84) bromoform	0.00		0		N.D.	
85) styrene	0.00		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	
87) o-xylene	0.00		0		N.D.	
96) 4-ethyl toluene	0.00		0		N.D.	
97) 1,3,5-trimethylbenzene	0.00		0		N.D.	
99) 1,2,4-trimethylbenzene	0.00		0		N.D.	
101) Benzyl Chloride	0.00		0		N.D.	
102) 1,3-dichlorobenzene	0.00		0		N.D.	
103) 1,4-dichlorobenzene	0.00		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	0.00		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239089.D
 Acq On : 19 Feb 2016 4:28 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-4,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:57:25 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

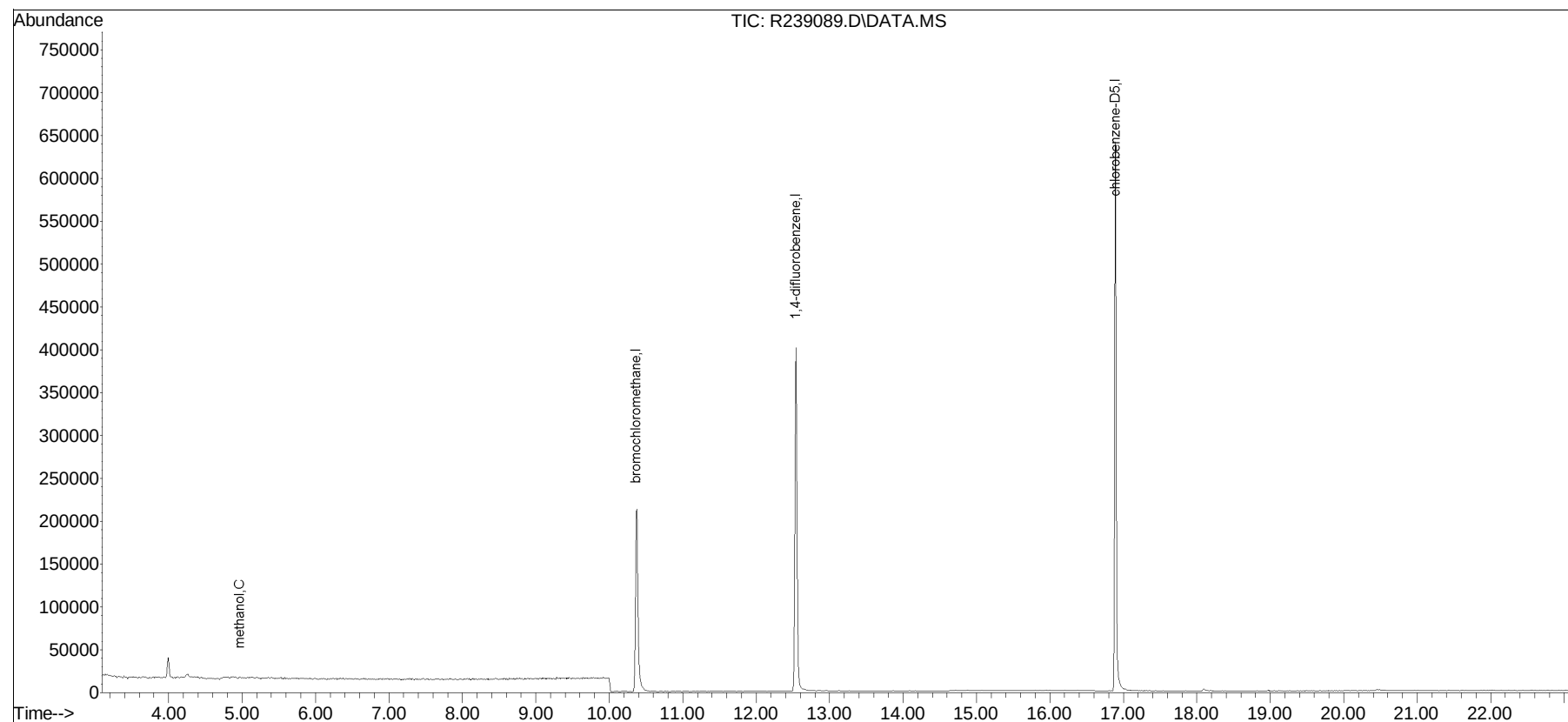
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
Data File : R239089.D
Acq On : 19 Feb 2016 4:28 pm
Operator : AIRPIAN02:RY
Sample : WG866471-4,3,250,250
Misc : WG866471,ICAL12008
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:57:25 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Mon Feb 08 10:04:44 2016
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed39086.D



TALL160207.M Sat Feb 20 10:18:47 2016

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Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2016Q	Method	: TALL160207.M
Data File	: R239089.D	Operator	: AIRPIAN02:RY
Date Inj'd	: 2/19/2016 4:28 pm	Instrument	: Air Piano 2
Sample	: WG866471-4,3,250,250	Quant Date	: 2/19/2016 4:55 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	89	0.00
2	chlorodifluoromethane	10.000	7.807	21.9	75	0.00
3	propylene	10.000	8.845	11.5	92	0.00
4	propane	10.000	7.370	26.3	77	0.00
5	dichlorodifluoromethane	10.000	9.421	5.8	84	0.00
6 C	chloromethane	10.000	8.435	15.6	83	0.00
7	Freon-114	10.000	9.616	3.8	93	0.00
8 C	methanol	50.000	35.375	29.3	65	0.01
9 C	vinyl chloride	10.000	9.171	8.3	87	0.00
10 C	1,3-butadiene	10.000	9.268	7.3	89	0.00
11	butane	10.000	7.667	23.3	74	0.00
13 C	bromomethane	10.000	9.737	2.6	92	0.00
14 C	chloroethane	10.000	9.309	6.9	85	0.00
15	ethanol	50.000	36.516	27.0	69	0.00
16	dichlorofluoromethane	10.000	8.122	18.8	77	0.00
17 C	vinyl bromide	10.000	10.271	-2.7	99	0.00
18 C	acrolein	10.000	7.524	24.8	73	0.00
19	acetone	50.000	40.333	19.3	75	0.00
20 C	acetonitrile	10.000	7.172	28.3	72	0.00
21	trichlorofluoromethane	10.000	9.592	4.1	91	0.00
22	isopropyl alcohol	25.000	19.815	20.7	77	0.00
23 C	acrylonitrile	10.000	7.516	24.8	76	0.00
24	pentane	10.000	7.377	26.2	73	0.00
25	ethyl ether	10.000	7.473	25.3	72	0.00
26 C	1,1-dichloroethene	10.000	9.082	9.2	86	0.00
27	tertiary butyl alcohol	10.000	8.626	13.7	81	0.00
28 C	methylene chloride	10.000	9.124	8.8	86	0.00
29 C	3-chloropropene	10.000	9.139	8.6	90	0.00
30 C	carbon disulfide	10.000	9.632	3.7	90	0.00
31	Freon 113	10.000	10.309	-3.1	96	0.00
32	trans-1,2-dichloroethene	10.000	8.436	15.6	79	0.00
33 C	1,1-dichloroethane	10.000	9.427	5.7	89	0.00
34 C	MTBE	10.000	9.324	6.8	89	0.00
35 C	vinyl acetate	10.000	10.410	-4.1	95	0.00
36 C	2-butanone	10.000	8.908	10.9	83	0.00
37	cis-1,2-dichloroethene	10.000	10.037	-0.4	96	0.00
38	Ethyl Acetate	10.000	10.193	-1.9	91	0.00
39 C	chloroform	10.000	9.891	1.1	94	0.00
40	Tetrahydrofuran	10.000	7.979	20.2	79	0.00

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1

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	8.524	14.8	80	0.00
42 C	1,2-dichloroethane	10.000	9.385	6.2	86	0.00
43 I	1,4-difluorobenzene	10.000	10.000	0.0	100	0.00
44 C	hexane	10.000	7.861	21.4	85	0.00
45	diisopropyl ether	10.000	7.914	20.9	88	0.00
46	tert-butyl ethyl ether	10.000	7.483	25.2	81	0.00
48 C	1,1,1-trichloroethane	10.000	8.261	17.4	91	0.00
49	1,1-dichloropropene	10.000	7.920	20.8	86	0.00
50 C	benzene	10.000	8.378	16.2	93	0.00
52 C	carbon tetrachloride	10.000	8.622	13.8	94	0.00
53	cyclohexane	10.000	7.879	21.2	88	0.00
54	tert-amyl methyl ether	10.000	7.833	21.7	85	0.00
55	dibromomethane	10.000	8.429	15.7	88	0.00
56 C	1,2-dichloropropane	10.000	8.324	16.8	91	0.00
57	bromodichloromethane	10.000	8.868	11.3	96	0.00
58 C	1,4-dioxane	10.000	8.946	10.5	93	0.01
59 C	trichloroethene	10.000	9.604	4.0	99	0.00
60 C	2,2,4-trimethylpentane	10.000	8.224	17.8	89	0.00
61	methyl methacrylate	10.000	7.097	29.0	77	0.00
62	heptane	10.000	7.780	22.2	84	0.00
63 C	cis-1,3-dichloropropene	10.000	9.067	9.3	93	0.00
64 C	4-methyl-2-pentanone	10.000	8.018	19.8	85	0.00
65	trans-1,3-dichloropropene	10.000	7.550	24.5	79	0.00
66 C	1,1,2-trichloroethane	10.000	8.906	10.9	97	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	89	0.00
68 C	toluene	10.000	9.534	4.7	90	0.00
71	1,3-dichloropropane	10.000	9.055	9.5	84	0.00
72	2-hexanone	10.000	9.685	3.1	83	0.00
74	dibromochloromethane	10.000	10.267	-2.7	96	0.00
75 C	1,2-dibromoethane	10.000	10.210	-2.1	95	0.00
76	butyl acetate	10.000	8.698	13.0	79	0.00
77	octane	10.000	8.887	11.1	83	0.00
78 C	tetrachloroethene	10.000	10.643	-6.4	100	0.00
79	1,1,1,2-tetrachloroethane	10.000	9.620	3.8	90	0.00
80 C	chlorobenzene	10.000	10.434	-4.3	99	0.00
81 C	ethylbenzene	10.000	10.207	-2.1	96	0.00
83 C	m+p-xylene	20.000	20.474	-2.4	95	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	11.027	-10.3	100	0.00
85 C	styrene	10.000	10.577	-5.8	98	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	10.460	-4.6	96	0.00
87 C	o-xylene	10.000	10.449	-4.5	97	0.00
88	1,2,3-trichloropropane	10.000	9.045	9.6	85	0.00
89	nonane	10.000	8.372	16.3	80	0.00
91 C	isopropylbenzene	10.000	9.861	1.4	93	0.00
92	bromobenzene	10.000	9.195	8.0	87	0.00
93	2-chlorotoluene	10.000	10.119	-1.2	93	0.00
94	n-propylbenzene	10.000	9.970	0.3	92	0.00
95	4-chlorotoluene	10.000	9.266	7.3	87	0.00
96	4-ethyl toluene	10.000	10.165	-1.6	94	0.00
97	1,3,5-trimethylbenzene	10.000	10.939	-9.4	103	0.00
98	tert-butylbenzene	10.000	9.913	0.9	92	0.00
99	1,2,4-trimethylbenzene	10.000	10.832	-8.3	98	0.00
100	decane	10.000	9.096	9.0	83	0.00
101 C	Benzyl Chloride	10.000	10.364	-3.6	92	0.00
102	1,3-dichlorobenzene	10.000	11.209	-12.1	102	0.00
103 C	1,4-dichlorobenzene	10.000	11.045	-10.4	102	0.00
104	sec-butylbenzene	10.000	9.730	2.7	90	0.00
106	p-isopropyltoluene	10.000	9.203	8.0	84	0.00
107	1,2-dichlorobenzene	10.000	11.084	-10.8	101	0.00
108	n-butylbenzene	10.000	10.035	-0.4	90	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	9.195	8.0	82	0.00
112	undecane	10.000	9.511	4.9	83	0.00
114	dodecane	10.000	9.734	2.7	77	0.00
115 C	1,2,4-trichlorobenzene	10.000	12.245	-22.4	100	0.00
116	naphthalene	10.000	10.740	-7.4	91	0.00
117	1,2,3-trichlorobenzene	10.000	10.950	-9.5	94	0.00
119 C	hexachlorobutadiene	10.000	11.512	-15.1	99	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	144978	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		98.48%	
43) 1,4-difluorobenzene	12.54	114	356107	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		96.56%	
67) chlorobenzene-D5	16.89	54	79369	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		98.79%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	4.28	51	142202	7.807	ppbV	99
3) propylene	4.31	41	95629M6	8.845	ppbV	
4) propane	4.34	29	79115	7.370	ppbV	95
5) dichlorodifluoromethane	4.42	85	172637	9.421	ppbV	100
6) chloromethane	4.65	50	85497	8.435	ppbV	99
7) Freon-114	4.79	85	236257	9.616	ppbV	93
8) methanol	4.92	31	155814	35.375	ppbV	96
9) vinyl chloride	4.96	62	89790	9.171	ppbV	96
10) 1,3-butadiene	5.16	54	71314	9.268	ppbV	89
11) butane	5.24	43	137455	7.667	ppbV	97
13) bromomethane	5.53	94	80982	9.737	ppbV	93
14) chloroethane	5.79	64	41519	9.309	ppbV	99
15) ethanol	6.01	31	319587	36.516	ppbV	95
16) dichlorofluoromethane	5.94	67	165788	8.122	ppbV	99
17) vinyl bromide	6.27	106	84071	10.271	ppbV	96
18) acrolein	6.45	56	32680	7.524	ppbV	95
19) acetone	6.64	43	685067	40.333	ppbV	96
20) acetonitrile	6.29	41	79222	7.172	ppbV	98
21) trichlorofluoromethane	6.84	101	220752	9.592	ppbV	96
22) isopropyl alcohol	7.01	45	384586	19.815	ppbV	99
23) acrylonitrile	7.25	53	60885M6	7.516	ppbV	
24) pentane	7.31	43	146582	7.377	ppbV	97
25) ethyl ether	7.37	31	127306	7.473	ppbV	94
26) 1,1-dichloroethene	7.66	61	157910	9.082	ppbV	94
27) tertiary butyl alcohol	7.79	59	191354	8.626	ppbV	99
28) methylene chloride	7.83	49	127866	9.124	ppbV	94
29) 3-chloropropene	7.97	41	156182	9.139	ppbV	99
30) carbon disulfide	8.15	76	272010	9.632	ppbV	92
31) Freon 113	8.16	101	200088	10.309	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	8.97	61	139882	8.436	ppbV	93
33) 1,1-dichloroethane	9.21	63	181512	9.427	ppbV	97
34) MTBE	9.30	73	262440	9.324	ppbV	97
35) vinyl acetate	9.41	43	262063	10.410	ppbV	98
36) 2-butanone	9.70	43	237927	8.908	ppbV	97
37) cis-1,2-dichloroethene	10.19	61	151408	10.037	ppbV	92
38) Ethyl Acetate	10.47	61	32786	10.193	ppbV	80
39) chloroform	10.53	83	203234	9.891	ppbV	95
40) Tetrahydrofuran	11.00	42	131532M6	7.979	ppbV	
41) 2,2-dichloropropane	10.56	77	163458	8.524	ppbV	93
42) 1,2-dichloroethane	11.36	62	140496	9.385	ppbV	98
44) hexane	10.43	57	157395	7.861	ppbV	91
45) diisopropyl ether	10.44	87	70647	7.914	ppbV	81
46) tert-butyl ethyl ether	11.05	59	298901	7.483	ppbV	99
48) 1,1,1-trichloroethane	11.64	97	229560	8.261	ppbV	98
49) 1,1-dichloropropene	11.99	75	141106	7.920	ppbV	92
50) benzene	12.16	78	290757	8.378	ppbV	97
52) carbon tetrachloride	12.32	117	219182	8.622	ppbV	98
53) cyclohexane	12.46	56	168718	7.879	ppbV	98
54) tert-amyl methyl ether	12.82	73	266279	7.833	ppbV	96
55) dibromomethane	13.04	93	116923	8.429	ppbV	96
56) 1,2-dichloropropane	13.07	63	116990	8.324	ppbV	96
57) bromodichloromethane	13.29	83	238804	8.868	ppbV	98
58) 1,4-dioxane	13.35	88	68774	8.946	ppbV	92
59) trichloroethene	13.33	130	137699	9.604	ppbV	96
60) 2,2,4-trimethylpentane	13.36	57	541301	8.224	ppbV	97
61) methyl methacrylate	13.54	41	147354	7.097	ppbV	93
62) heptane	13.65	43	221327	7.780	ppbV	97
63) cis-1,3-dichloropropene	14.29	75	169413	9.067	ppbV	95
64) 4-methyl-2-pentanone	14.34	43	304877	8.018	ppbV	98
65) trans-1,3-dichloropropene	14.86	75	205245	7.550	ppbV	96
66) 1,1,2-trichloroethane	15.05	97	176871	8.906	ppbV	96
68) toluene	15.33	91	505976	9.534	ppbV	99
71) 1,3-dichloropropane	15.35	76	213994	9.055	ppbV	95
72) 2-hexanone	15.56	43	396540	9.685	ppbV	98
74) dibromochloromethane	15.73	129	353460	10.267	ppbV	98
75) 1,2-dibromoethane	15.96	107	284443	10.210	ppbV	99
76) butyl acetate	16.13	73	48303	8.698	ppbV	93
77) octane	16.20	85	138019	8.887	ppbV	91
78) tetrachloroethene	16.36	166	255135	10.643	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.91	131	152211	9.620	ppbV	98
80)	chlorobenzene	16.92	112	305920	10.434	ppbV	97
81)	ethylbenzene	17.22	91	487523	10.207	ppbV	100
83)	m+p-xylene	17.36	91	757348	20.474	ppbV	96
84)	bromoform	17.44	173	249199	11.027	ppbV	98
85)	styrene	17.63	104	302374	10.577	ppbV	97
86)	1,1,2,2-tetrachloroethane	17.72	83	290969	10.460	ppbV	97
87)	o-xylene	17.72	91	397351	10.449	ppbV	96
88)	1,2,3-trichloropropane	17.82	75	206715	9.045	ppbV	95
89)	nonane	17.85	43	304746	8.372	ppbV #	97
91)	isopropylbenzene	18.15	105	514345	9.861	ppbV	99
92)	bromobenzene	18.24	77	265390	9.195	ppbV	90
93)	2-chlorotoluene	18.52	126	134914	10.119	ppbV	88
94)	n-propylbenzene	18.53	120	144125	9.970	ppbV	91
95)	4-chlorotoluene	18.57	91	394300	9.266	ppbV	97
96)	4-ethyl toluene	18.63	105	574775	10.165	ppbV	98
97)	1,3,5-trimethylbenzene	18.69	105	512720	10.939	ppbV	97
98)	tert-butylbenzene	18.99	119	467466	9.913	ppbV	99
99)	1,2,4-trimethylbenzene	18.99	105	480161	10.832	ppbV	93
100)	decane	19.03	57	311788	9.096	ppbV	95
101)	Benzyl Chloride	19.11	91	436484	10.364	ppbV	97
102)	1,3-dichlorobenzene	19.13	146	338923	11.209	ppbV	95
103)	1,4-dichlorobenzene	19.17	146	345488	11.045	ppbV	93
104)	sec-butylbenzene	19.19	105	639456	9.730	ppbV	100
106)	p-isopropyltoluene	19.30	119	543307	9.203	ppbV	97
107)	1,2-dichlorobenzene	19.43	146	328105	11.084	ppbV	94
108)	n-butylbenzene	19.62	91	550976	10.035	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.78	75	147838	9.195	ppbV	90
112)	undecane	19.97	57	365045	9.511	ppbV	97
114)	dodecane	20.86	57	388404	9.734	ppbV	96
115)	1,2,4-trichlorobenzene	20.86	180	303592	12.245	ppbV	98
116)	naphthalene	20.98	128	665160	10.740	ppbV	98
117)	1,2,3-trichlorobenzene	21.22	180	273993	10.950	ppbV	95
119)	hexachlorobutadiene	21.28	225	252430	11.512	ppbV	96

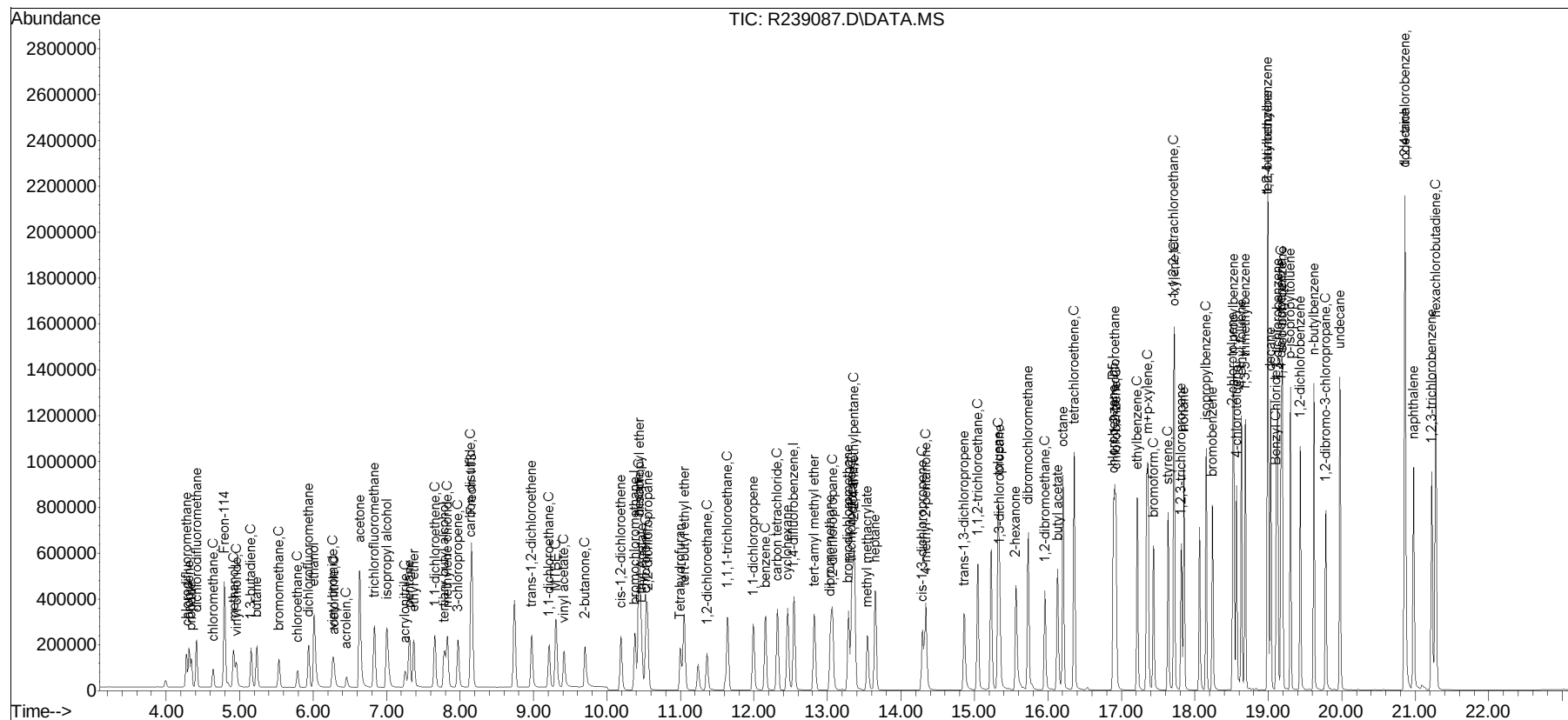
(#) = qualifier out of range (m) = manual integration (+) = signals summed

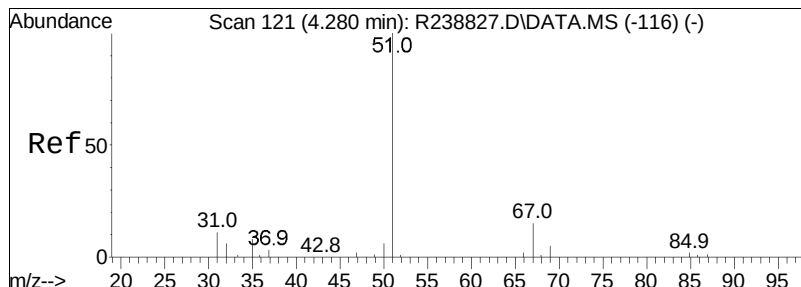
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239087.D
 Acq On : 19 Feb 2016 2:17 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-3, 3, 250, 250
 Misc : WG866471, ICAL12008
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 14:44:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

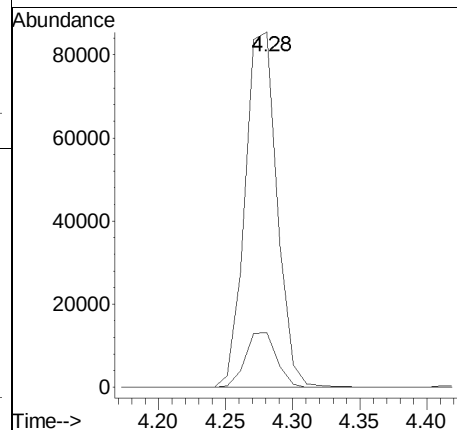
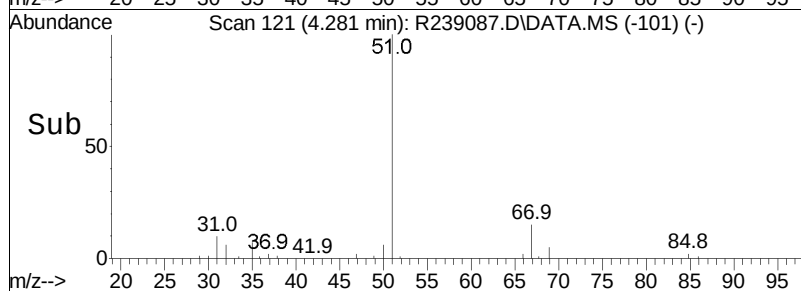
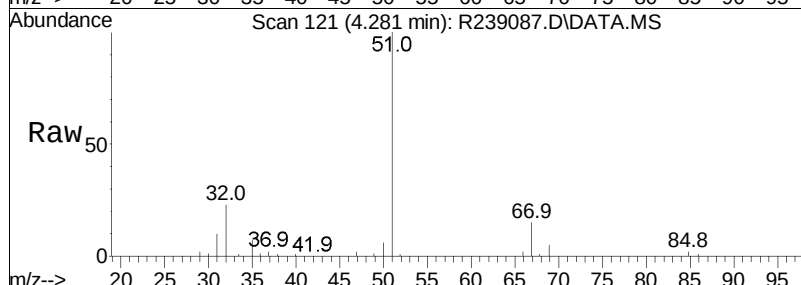
Sub List : Default-LCS-AP2 - All compounds listed39086.D

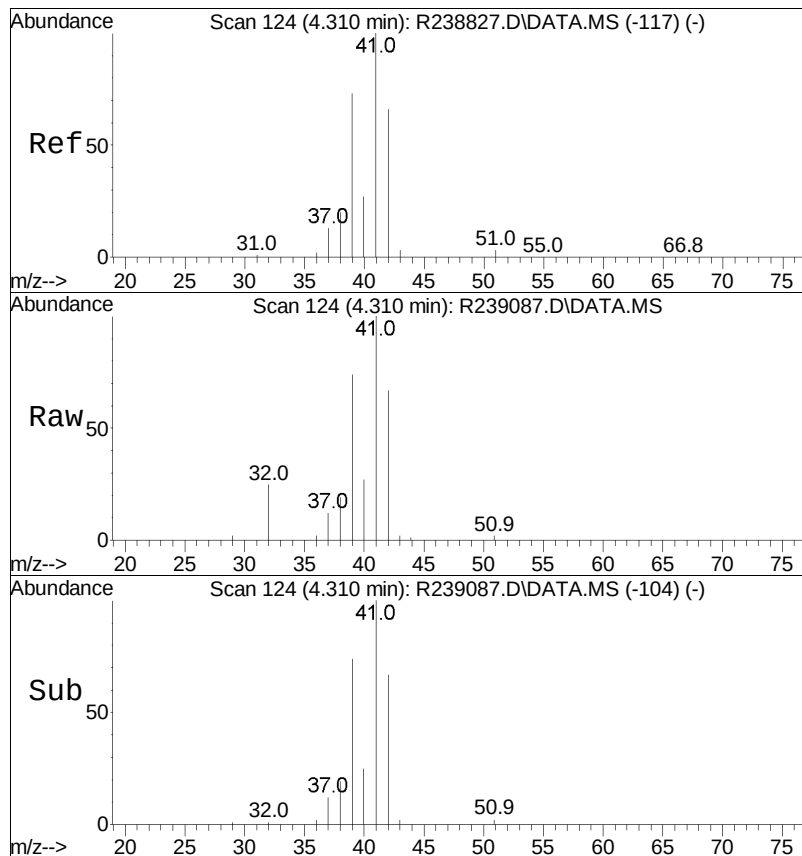




#2
 chlorodifluoromethane
 Concen: 7.81 ppbV
 RT: 4.28 min Scan# 121
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

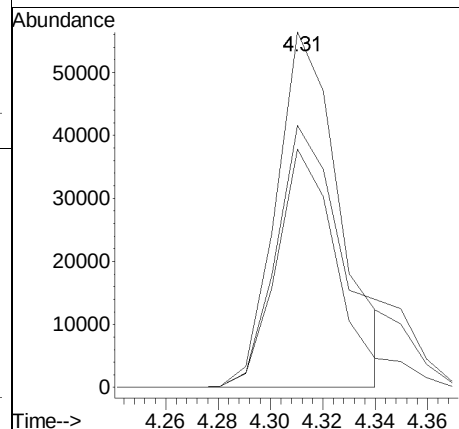
Tgt Ion: 51 Resp: 142202
 Ion Ratio Lower Upper
 51 100
 67 15.4 12.0 18.0

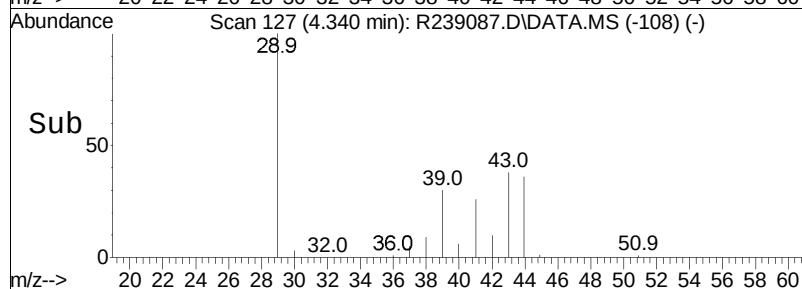
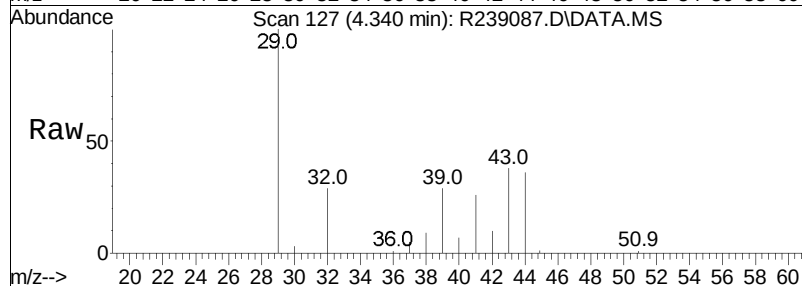
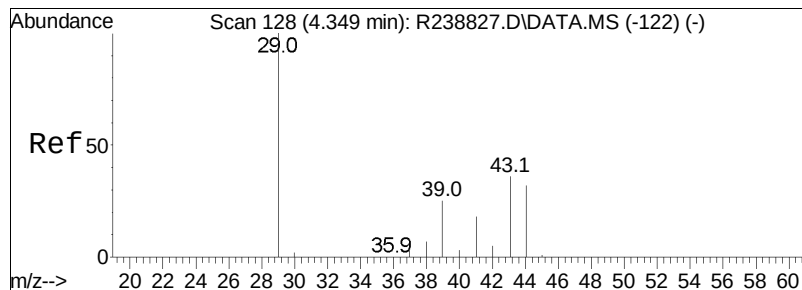




#3
propylene
Concen: 8.85 ppbV m
RT: 4.31 min Scan# 124
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

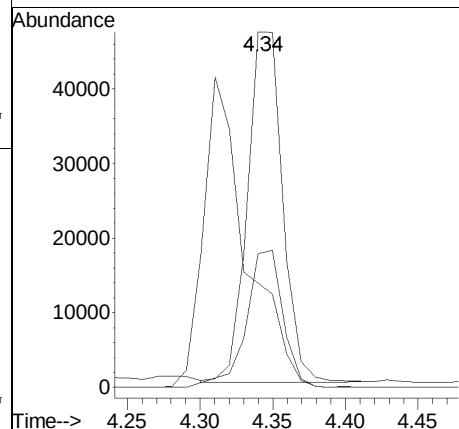
Tgt Ion	Ratio	Lower	Upper
41	100		
42	67.0	52.6	79.0
39	73.7	58.3	87.5

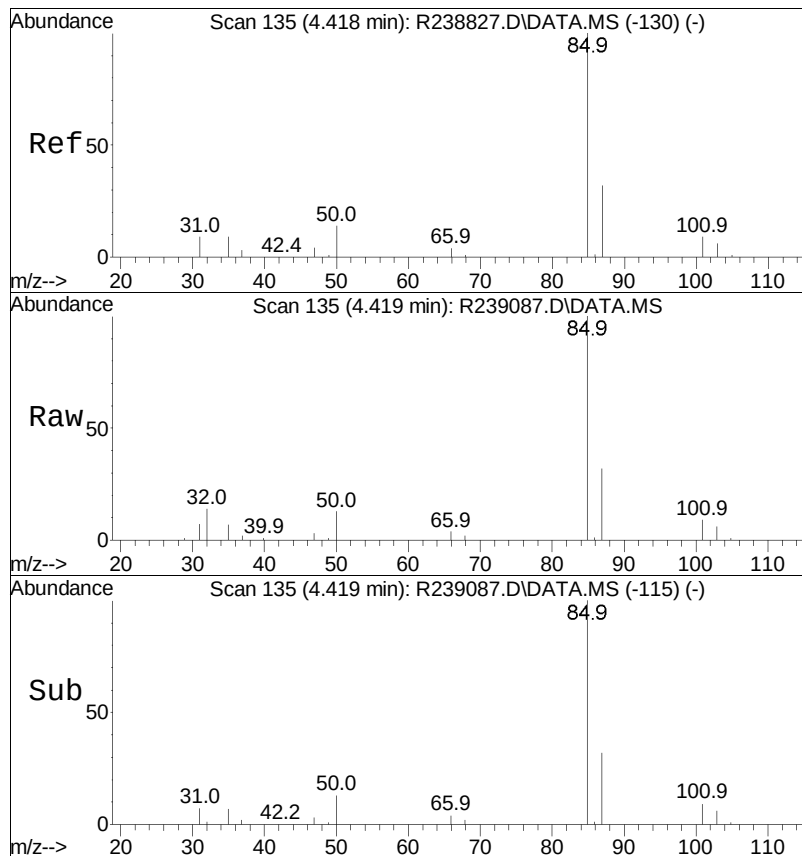




#4
propane
Concen: 7.37 ppbV
RT: 4.34 min Scan# 127
Delta R.T. -0.010 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

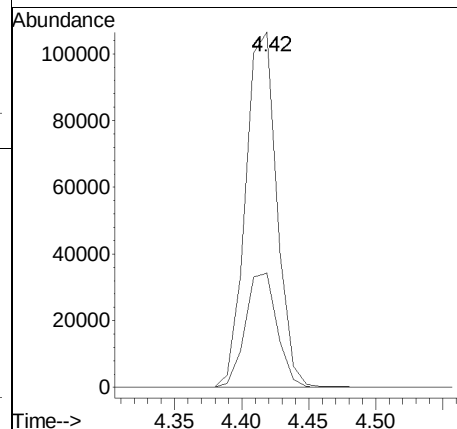
Tgt Ion	Ratio	Lower	Upper
29	100		
43	37.7	28.2	42.4
39	29.4	21.1	31.7

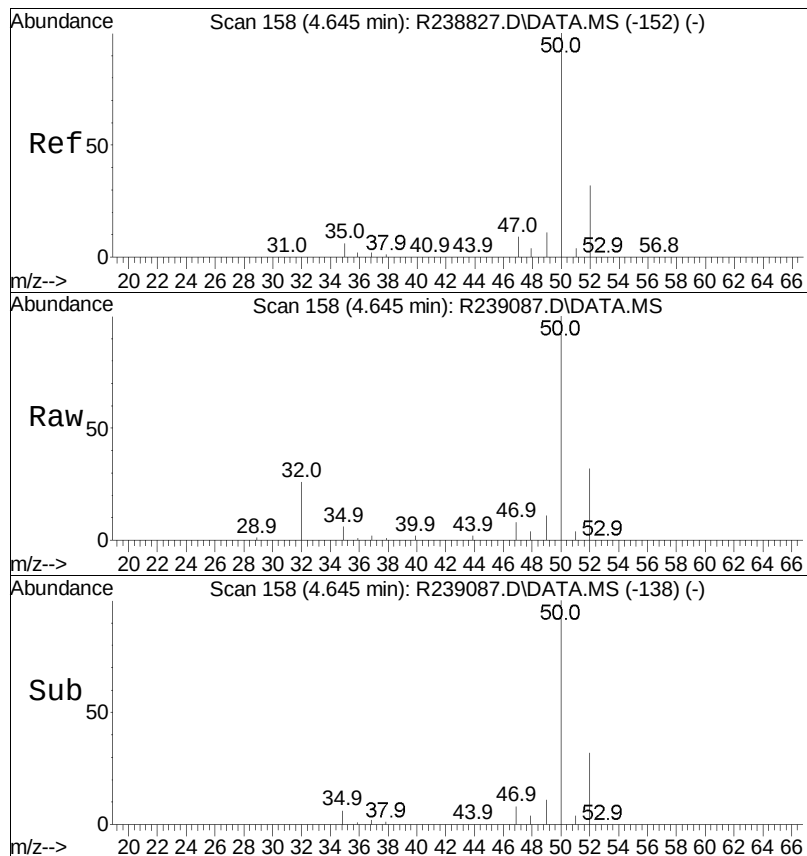




#5
 dichlorodifluoromethane
 Concen: 9.42 ppbV
 RT: 4.42 min Scan# 135
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

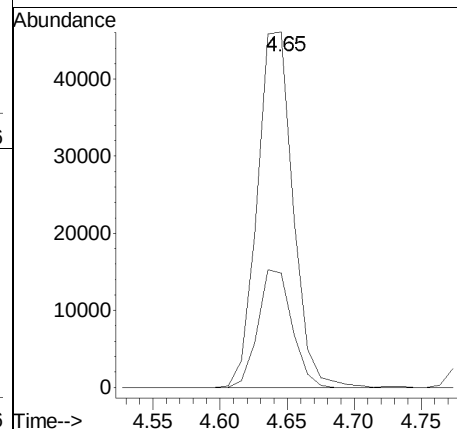
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.8	38.8

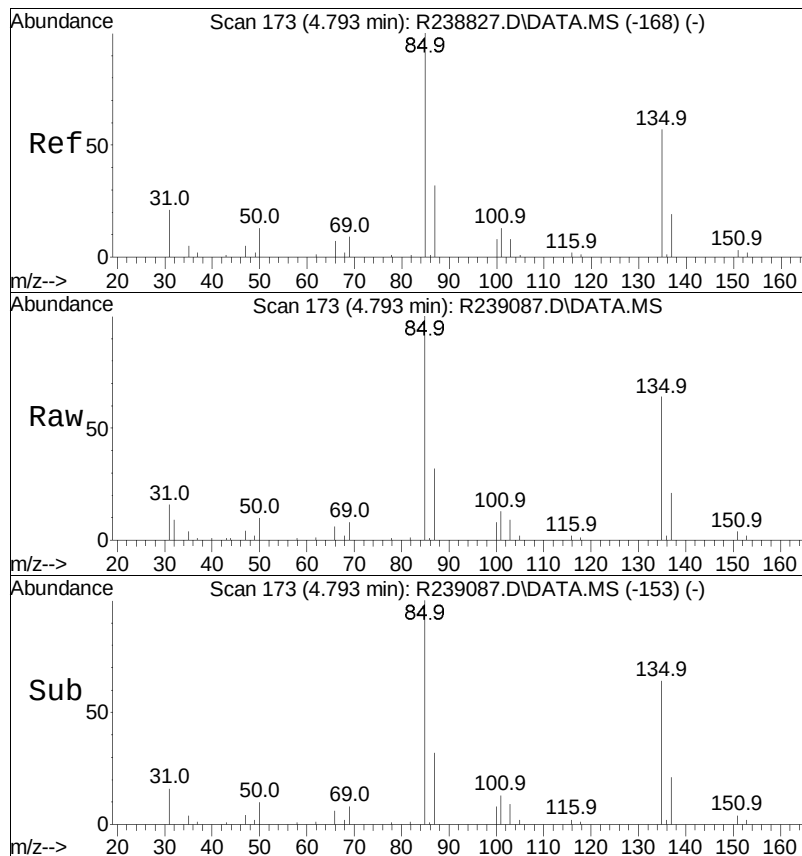




#6
 chloromethane
 Concen: 8.44 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

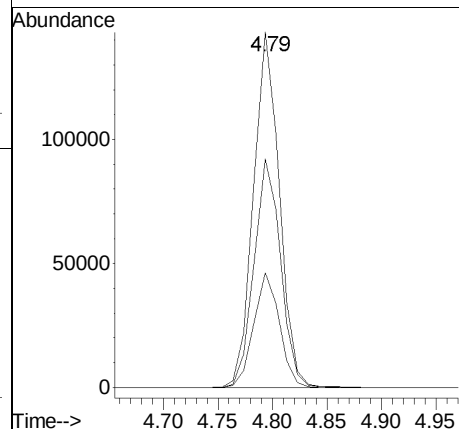
Tgt	Ion	Resp	Ratio	Lower	Upper
50	100	85497			
52	32.2	25.5	38.3		

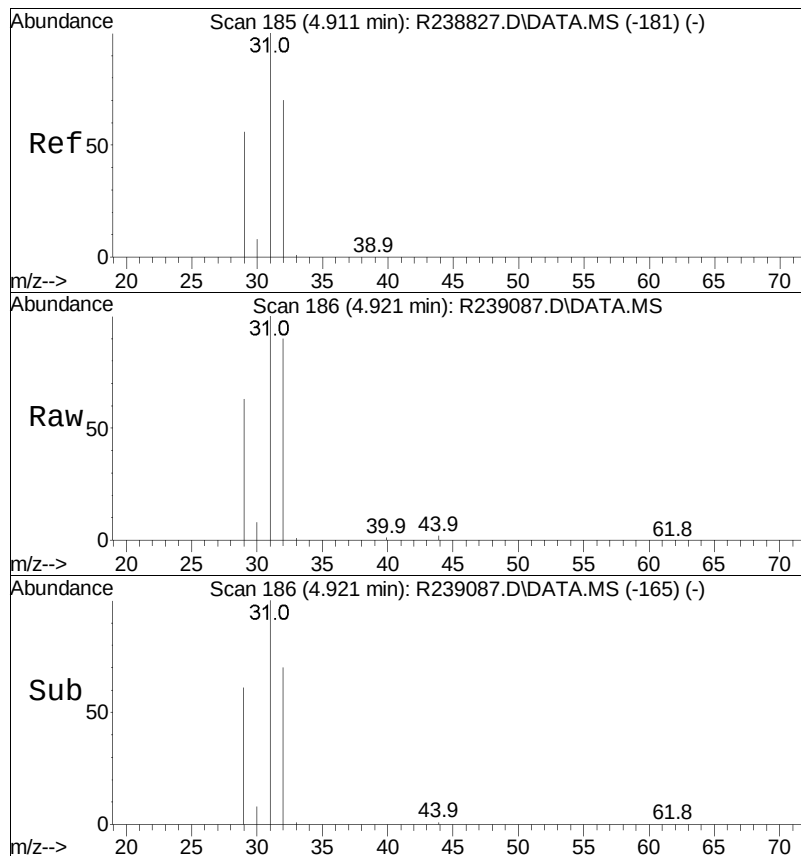




#7
 Freon-114
 Concen: 9.62 ppbV
 RT: 4.79 min Scan# 173
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

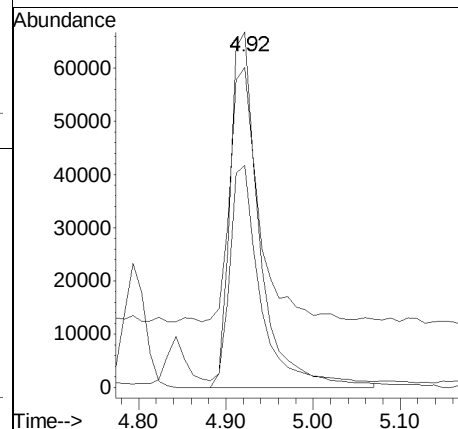
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.4	38.2
135	64.3	45.6	68.4

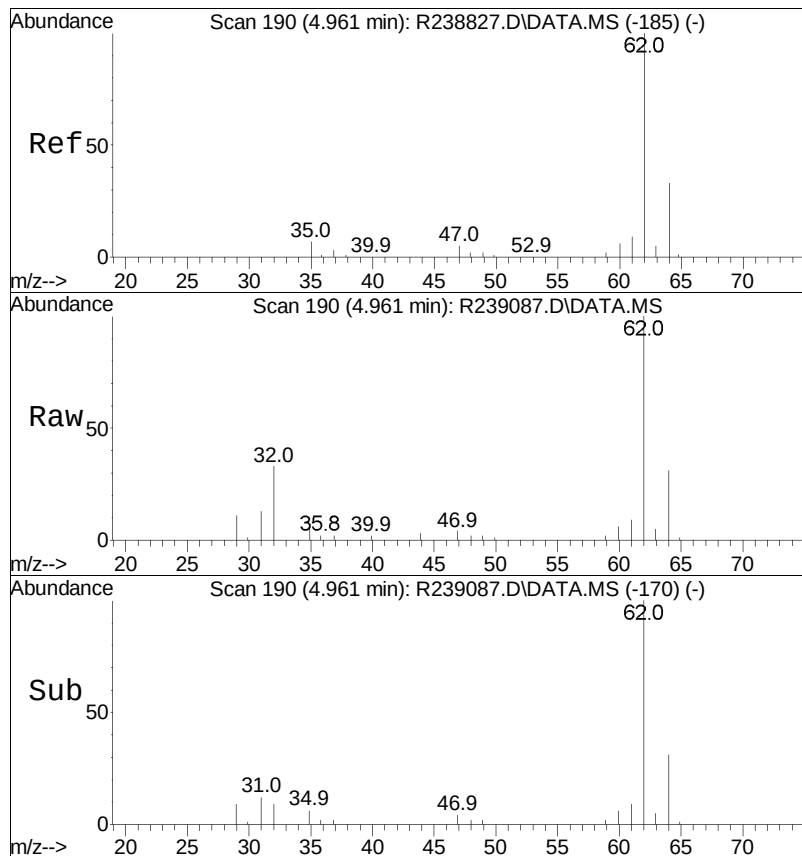




#8
 methanol
 Concen: 35.37 ppbV
 RT: 4.92 min Scan# 186
 Delta R.T. 0.010 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

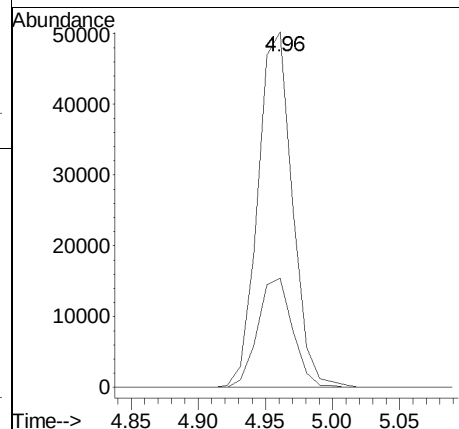
Tgt	Ion	Ratio	Resp	Lower	Upper
31	100		155814		
32	90.0	67.1	100.7		
29	62.5	50.6	76.0		

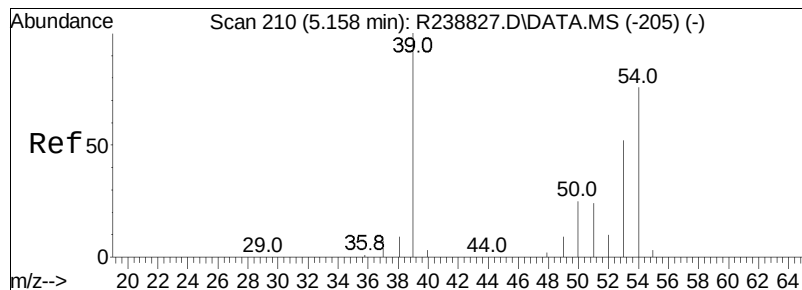




#9
 vinyl chloride
 Concen: 9.17 ppbV
 RT: 4.96 min Scan# 190
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

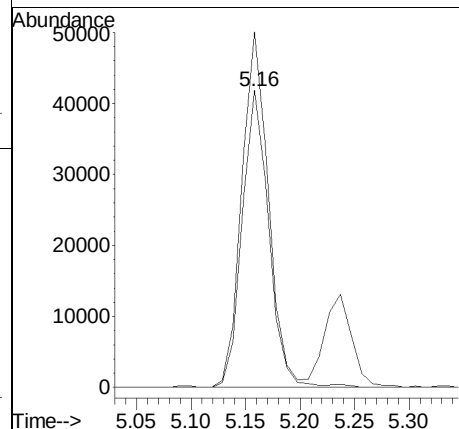
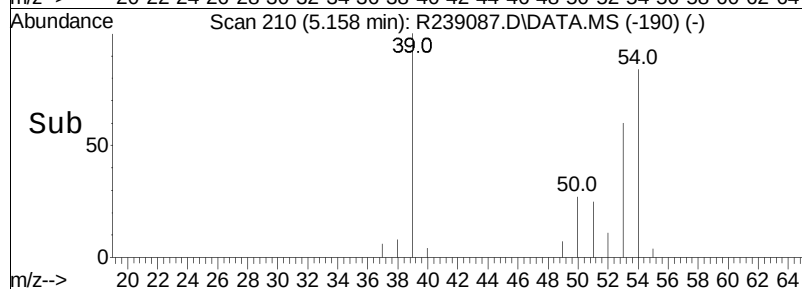
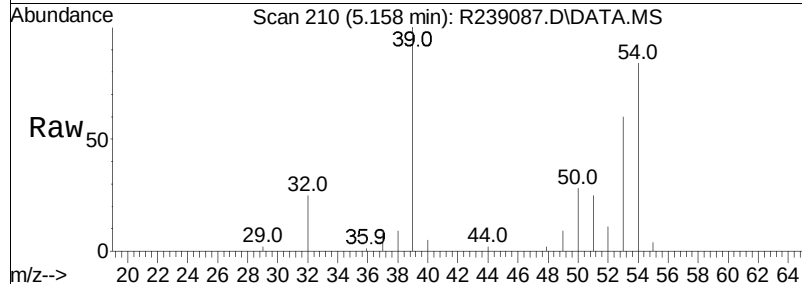
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.7	26.4	39.6

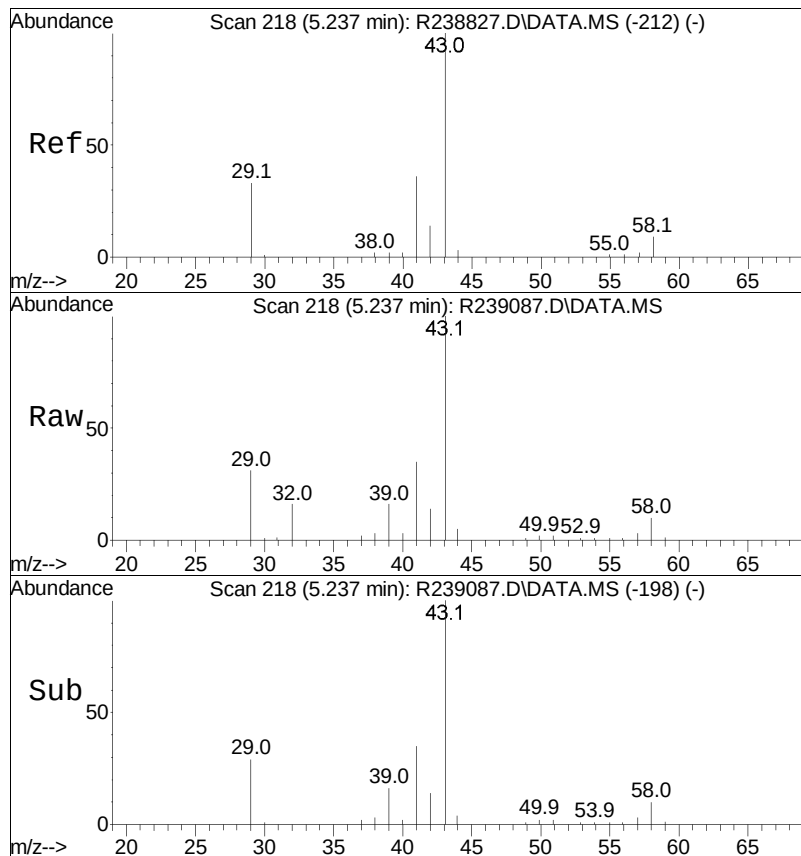




#10
 1,3-butadiene
 Concen: 9.27 ppbV
 RT: 5.16 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

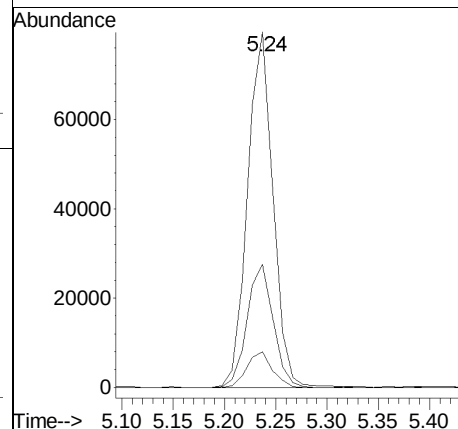
Tgt Ion	Ratio	Lower	Upper
54	100		
39	119.5	106.1	159.1

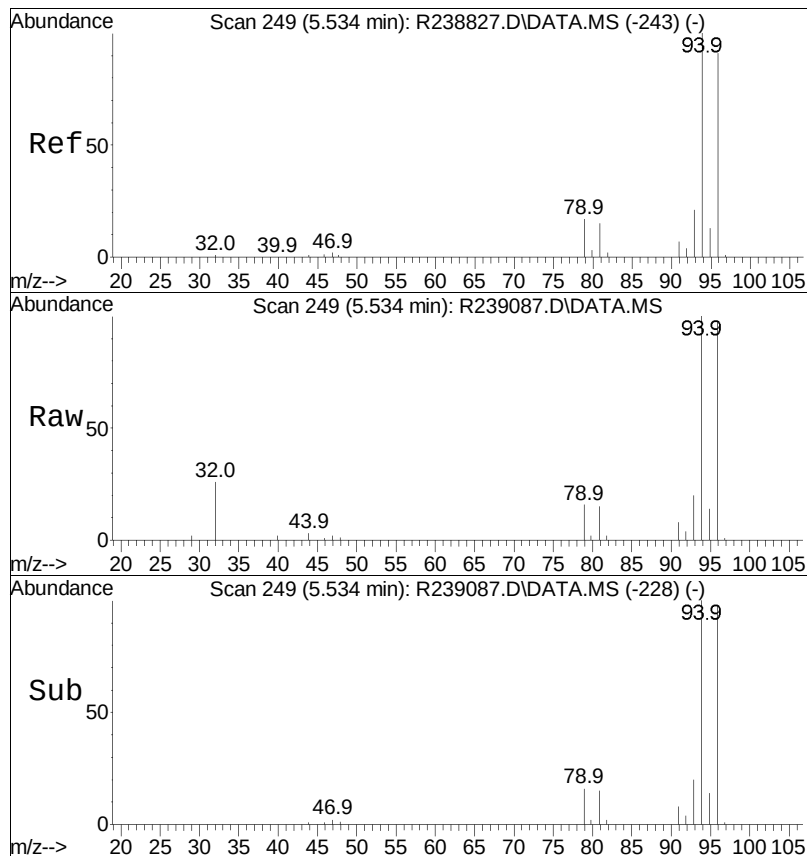




#11
butane
Concen: 7.67 ppbV
RT: 5.24 min Scan# 218
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

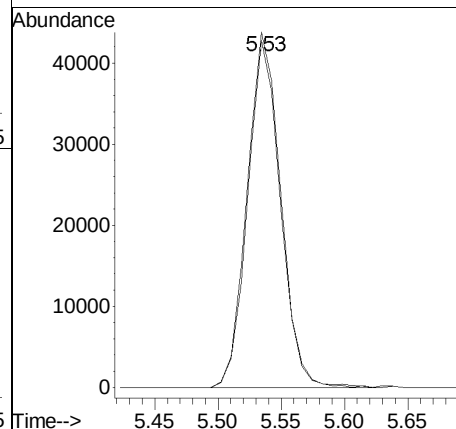
Tgt Ion	Ratio	Lower	Upper
43	100		
58	10.0	7.3	10.9
41	34.6	29.0	43.6

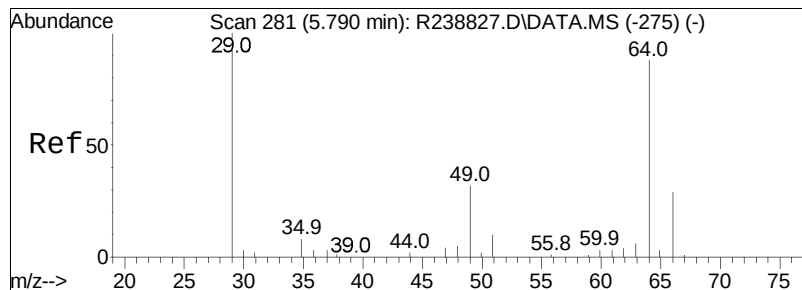




#13
bromomethane
Concen: 9.74 ppbV
RT: 5.53 min Scan# 249
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

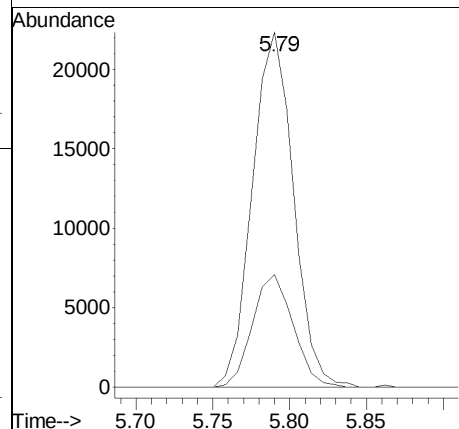
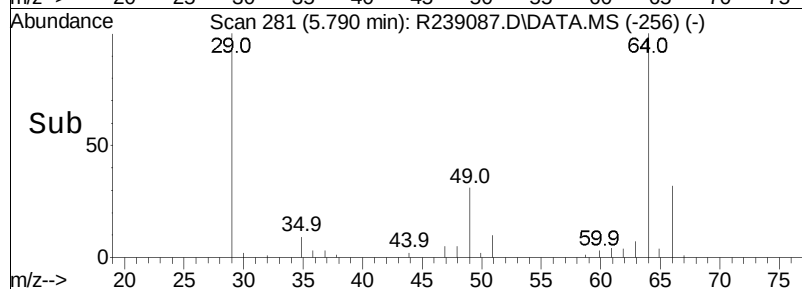
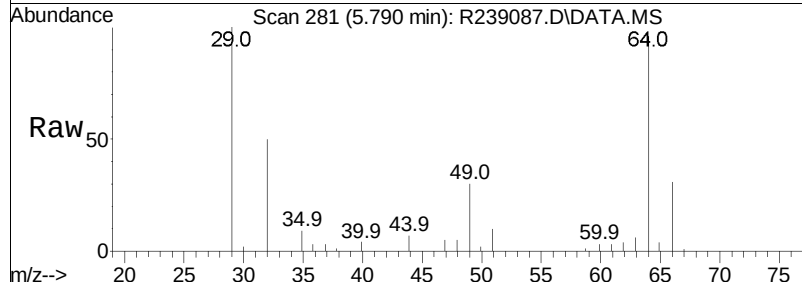
Tgt Ion: 94 Resp: 80982
Ion Ratio Lower Upper
94 100
96 97.6 72.7 109.1

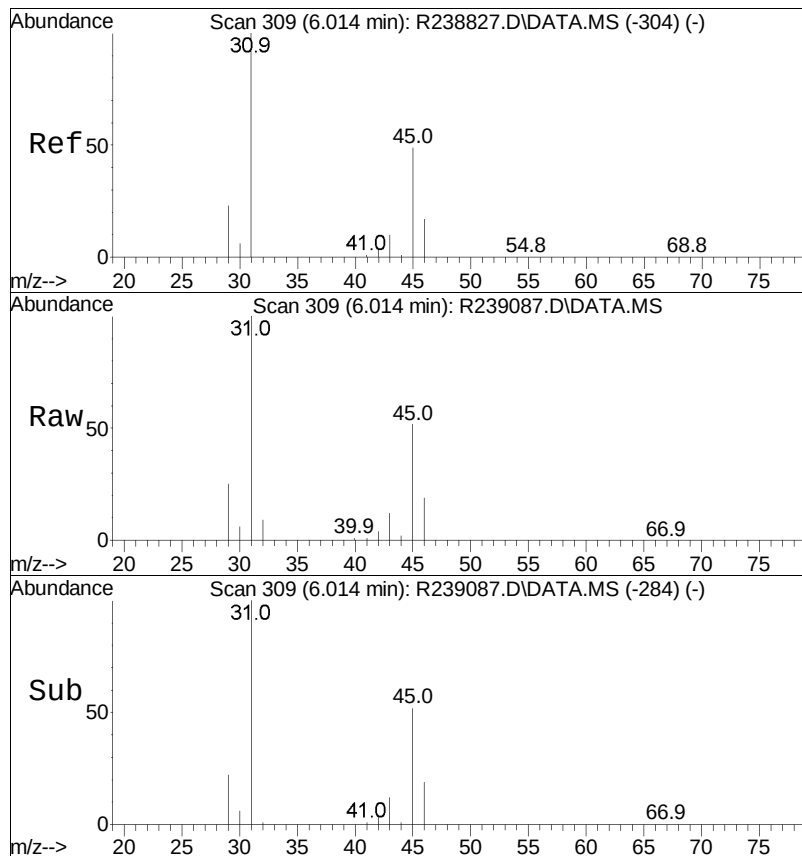




#14
chloroethane
Concen: 9.31 ppbV
RT: 5.79 min Scan# 281
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

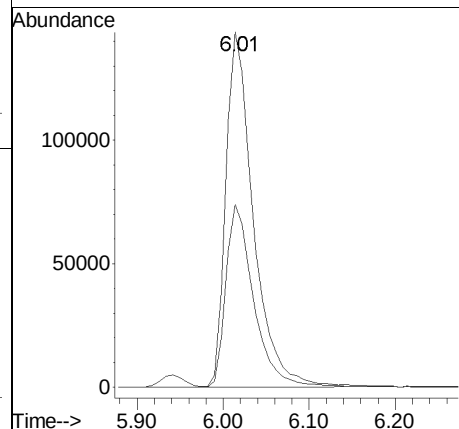
Tgt Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.0	39.0

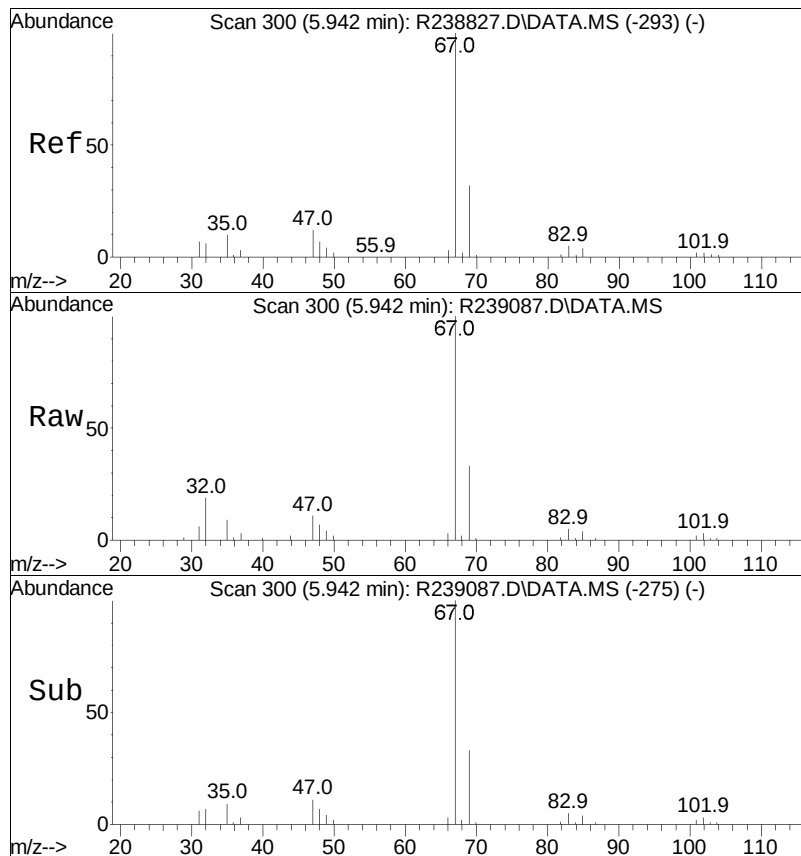




#15
ethanol
Concen: 36.52 ppbV
RT: 6.01 min Scan# 309
Delta R.T. -0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

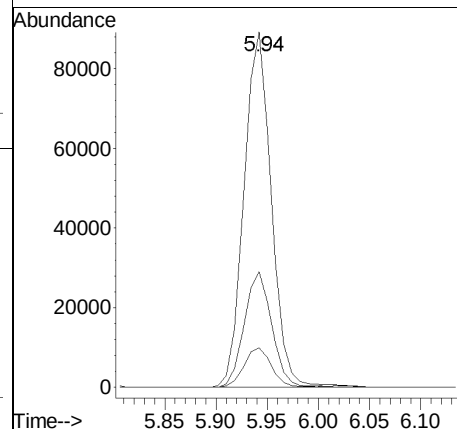
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	51.5	38.7	58.1	

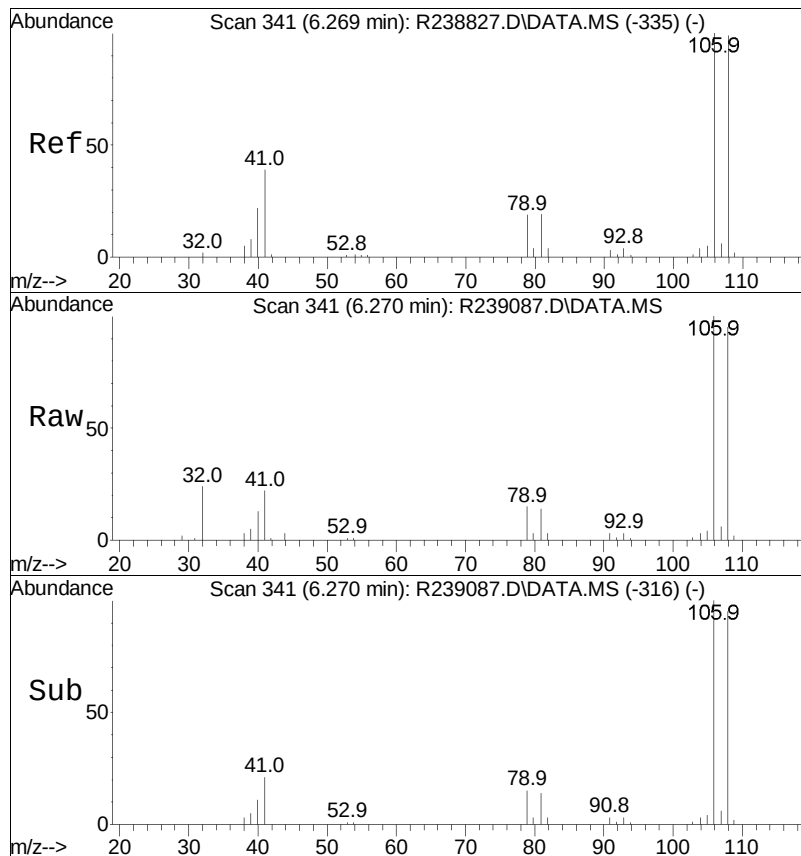




#16
 dichlorofluoromethane
 Concen: 8.12 ppbV
 RT: 5.94 min Scan# 300
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

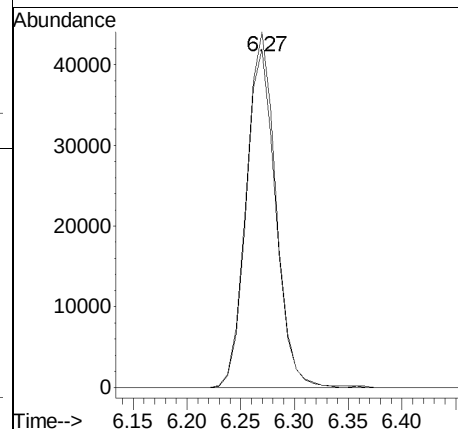
Tgt Ion	Ratio	Lower	Upper
67	100		
69	32.6	25.5	38.3
47	11.1	9.4	14.2

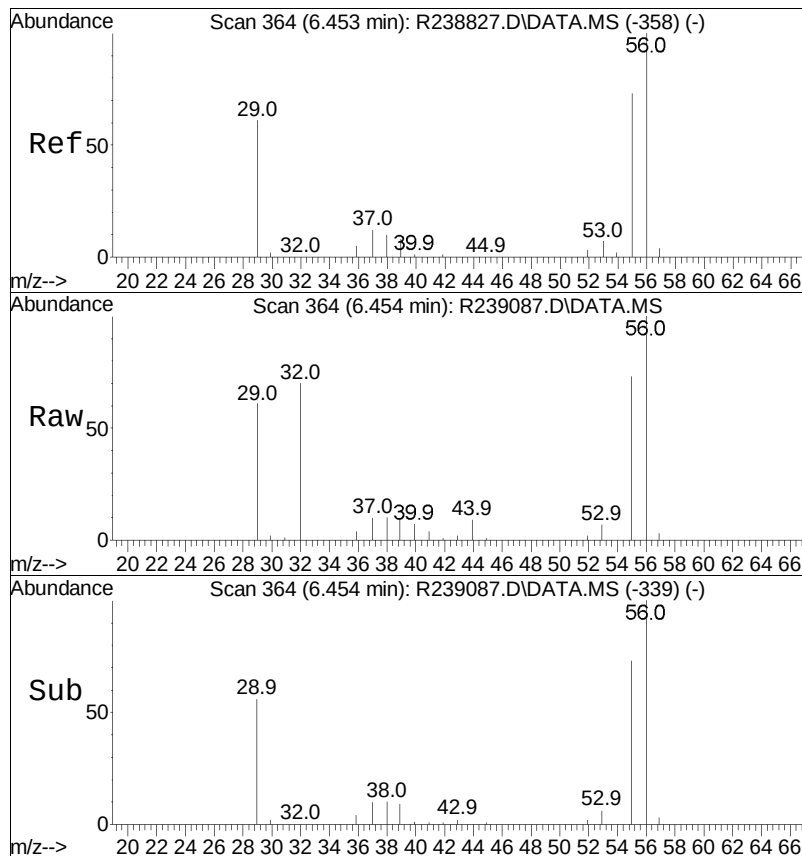




#17
 vinyl bromide
 Concen: 10.27 ppbV
 RT: 6.27 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

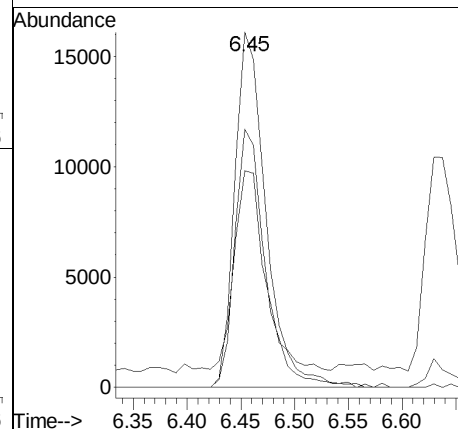
Tgt Ion	Ratio	Lower	Upper
106	100		
108	95.2	79.4	119.2

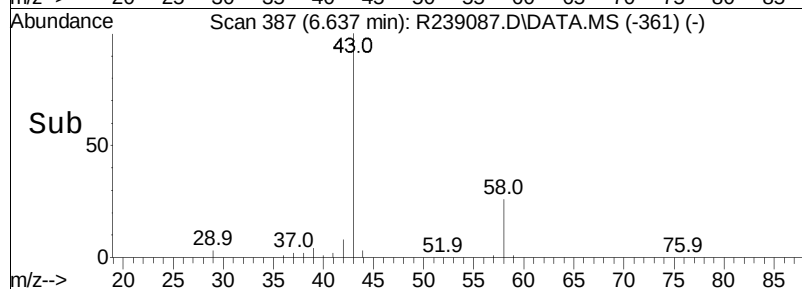
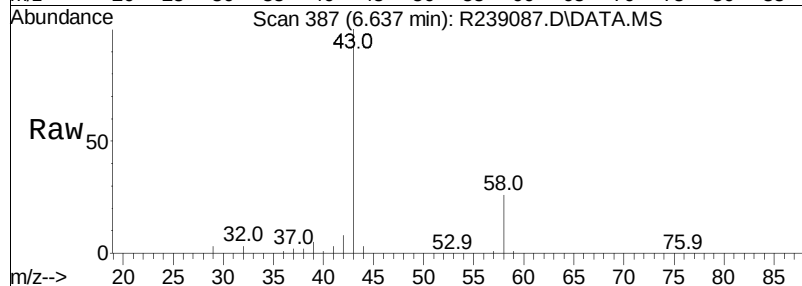
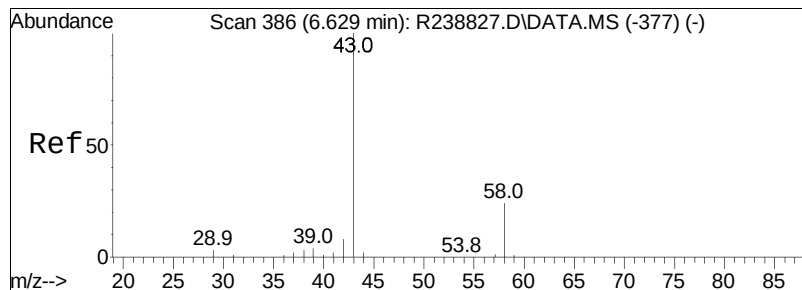




#18
acrolein
Concen: 7.52 ppbV
RT: 6.45 min Scan# 364
Delta R.T. 0.001 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

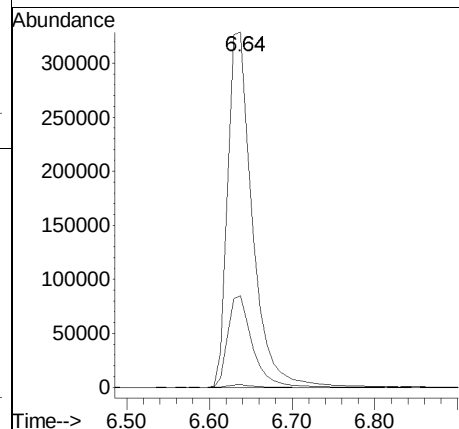
Tgt	Ion	Resp	Lower	Upper
56	100			
55	72.7		58.7	88.1
29	61.0		54.3	81.5

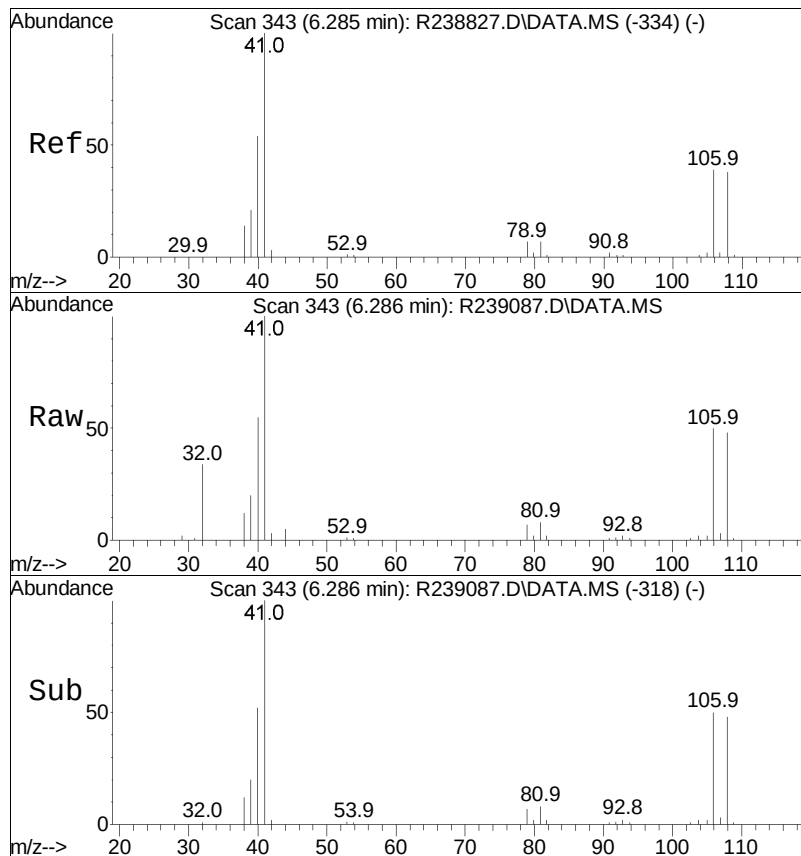




#19
acetone
Concen: 40.33 ppbV
RT: 6.64 min Scan# 387
Delta R.T. 0.008 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

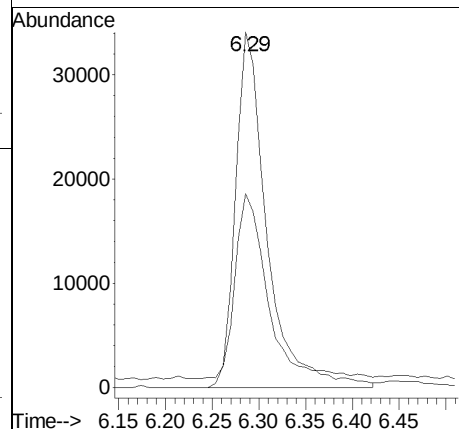
Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.8	19.2	28.8
57	0.8	0.6	1.0

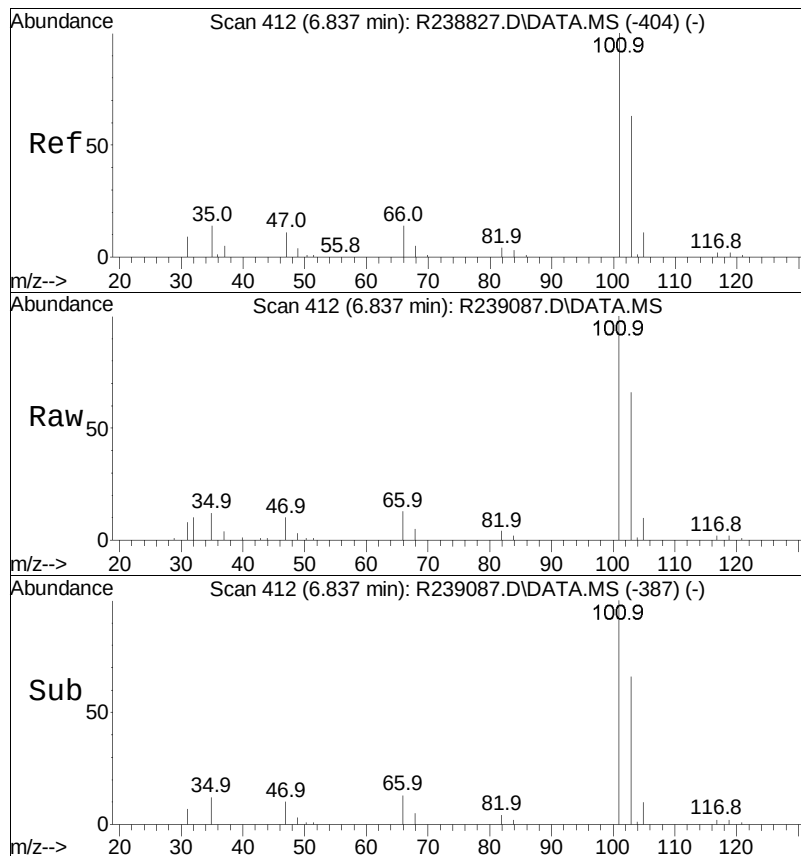




#20
 acetonitrile
 Concen: 7.17 ppbV
 RT: 6.29 min Scan# 343
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

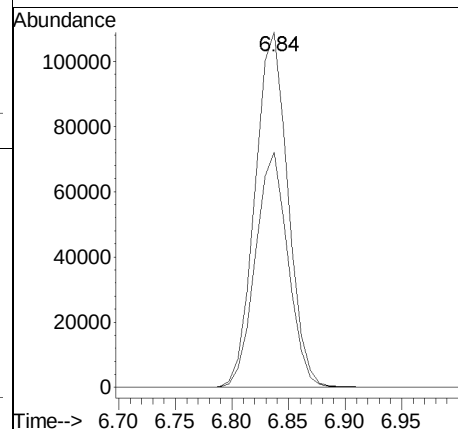
Tgt Ion:	41	Resp:	79222
Ion Ratio	Lower	Upper	
41	100		
40	54.5	44.6	67.0

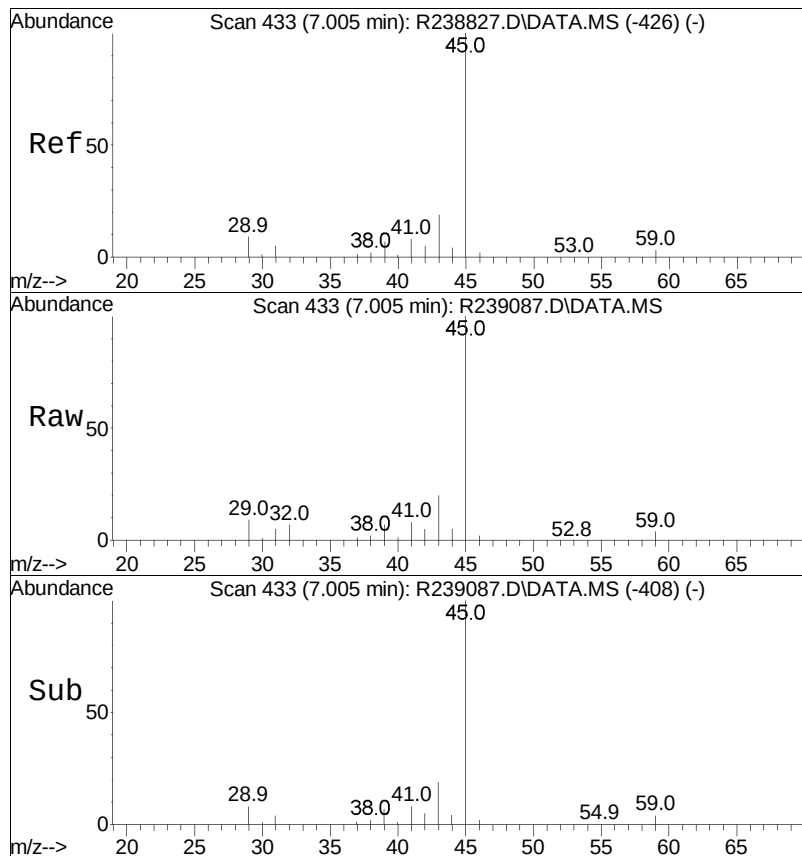




#21
 trichlorofluoromethane
 Concen: 9.59 ppbV
 RT: 6.84 min Scan# 412
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

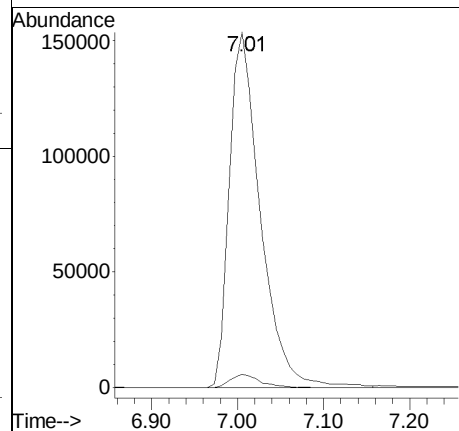
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		220752		
103	66.2	50.5	75.7		

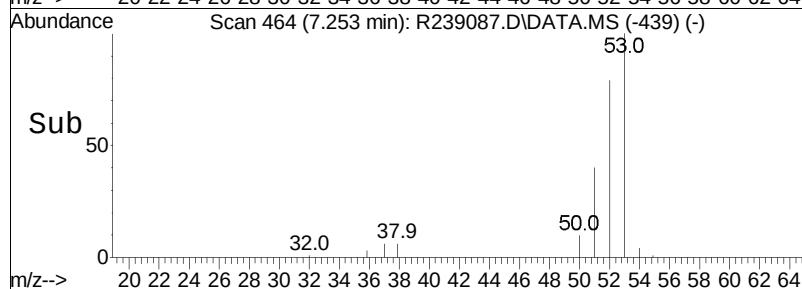
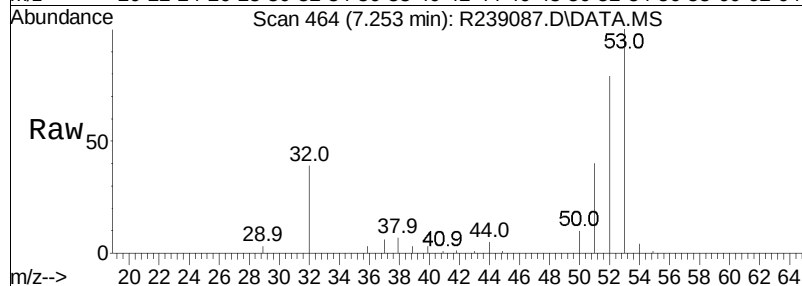
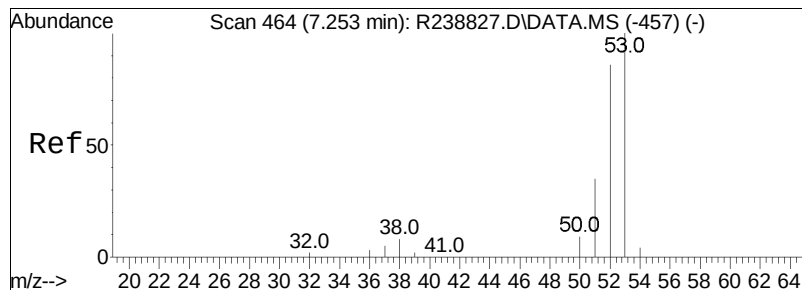




#22
 isopropyl alcohol
 Concen: 19.81 ppbV
 RT: 7.01 min Scan# 433
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

Tgt	Ion	Ratio	Lower	Upper
45	100			
59	3.7	2.6	4.0	





#23

acrylonitrile

Concen: 7.52 ppbV m

RT: 7.25 min Scan# 464

Delta R.T. 0.000 min

Lab File: R239087.D

Acq: 19 Feb 2016 2:17 pm

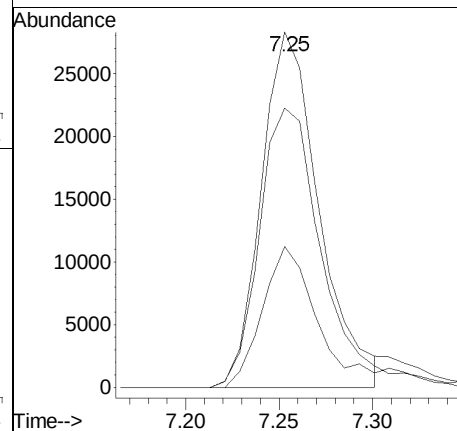
Tgt Ion: 53 Resp: 60885

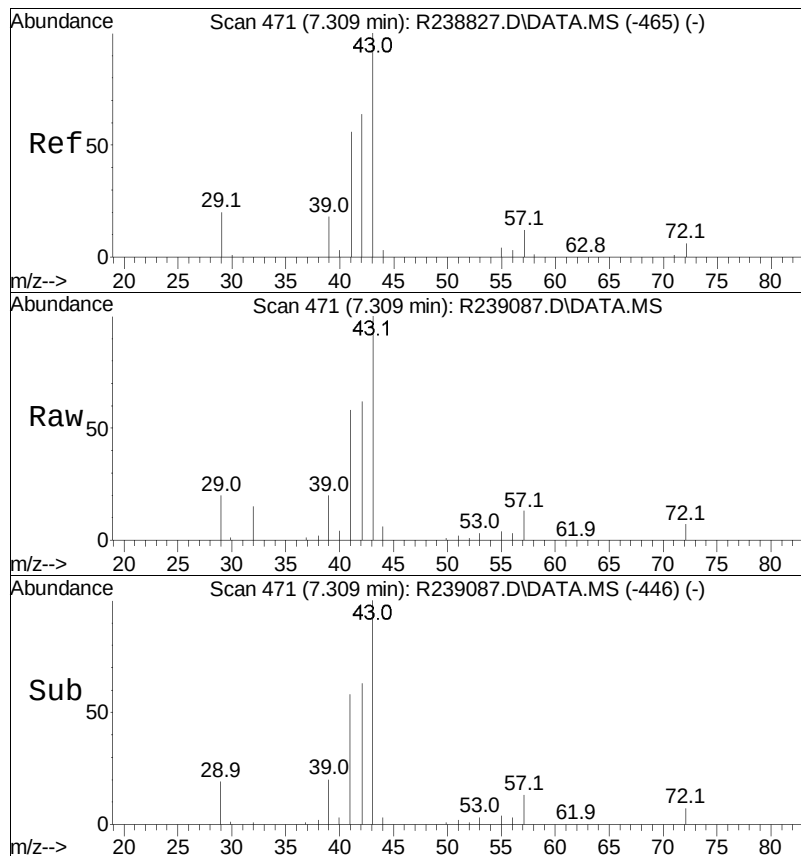
Ion Ratio Lower Upper

53 100

52 78.6 68.8 103.2

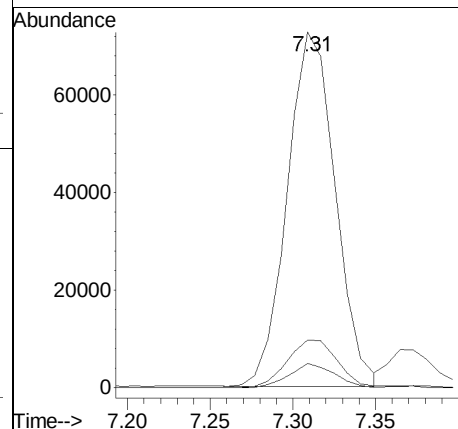
51 39.6 27.8 41.6

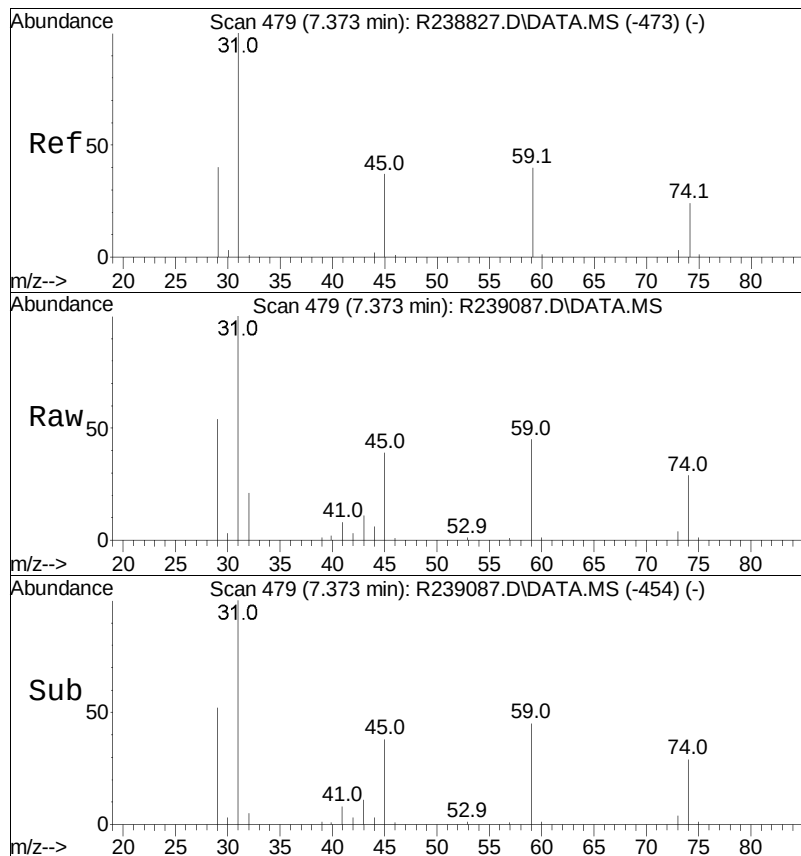




#24
 pentane
 Concen: 7.38 ppbV
 RT: 7.31 min Scan# 471
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

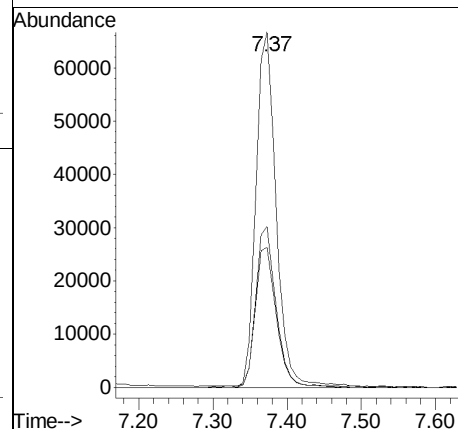
Tgt Ion	Ratio	Lower	Upper
43	100		
57	13.4	9.6	14.4
72	6.8	5.0	7.6

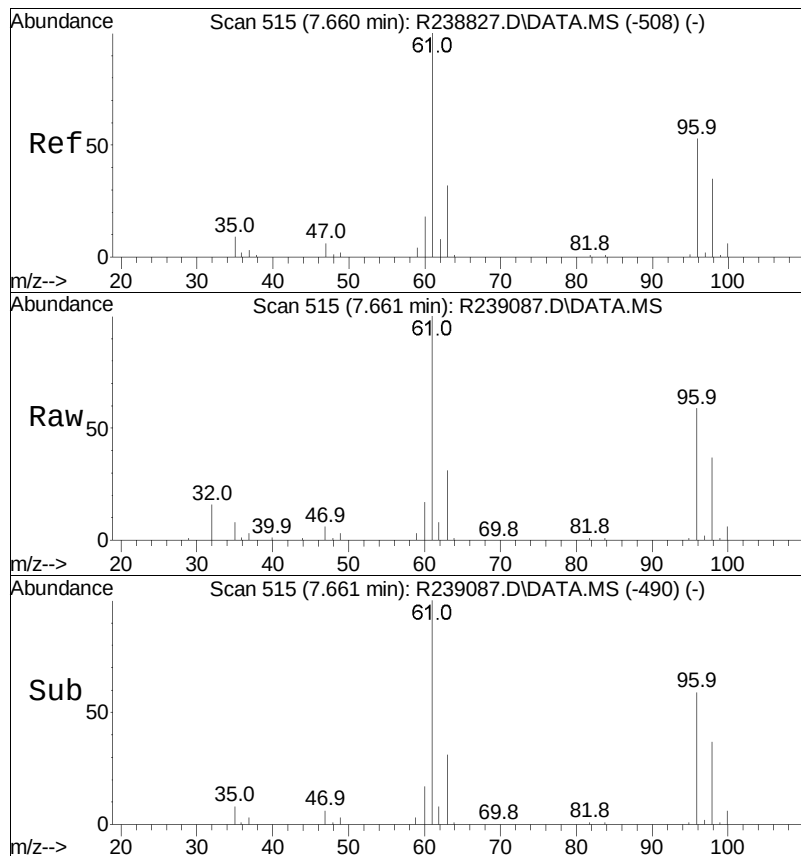




#25
ethyl ether
Concen: 7.47 ppbV
RT: 7.37 min Scan# 479
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

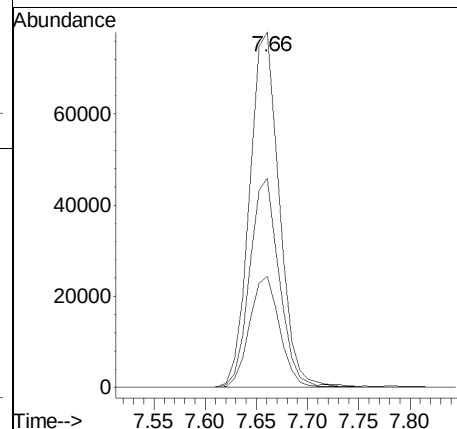
Tgt	Ion	Ratio	Resp	Lower	Upper
31	100		127306		
59	45.3	32.2		48.2	
45	39.4	29.9		44.9	

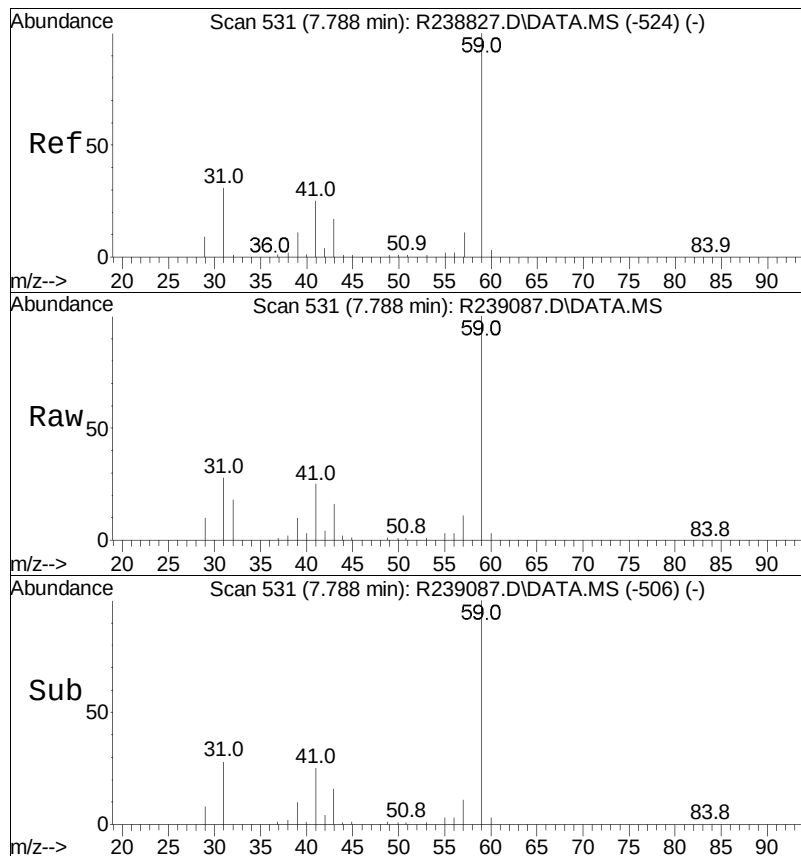




#26
 1,1-dichloroethene
 Concen: 9.08 ppbV
 RT: 7.66 min Scan# 515
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

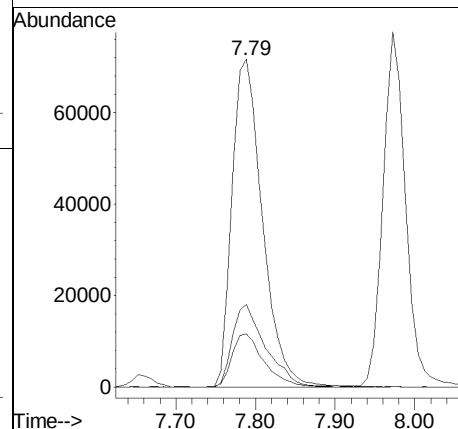
Tgt	Ion: 61	Resp:	157910
Ion	Ratio	Lower	Upper
61	100		
96	58.9	42.2	63.4
63	31.2	25.9	38.9

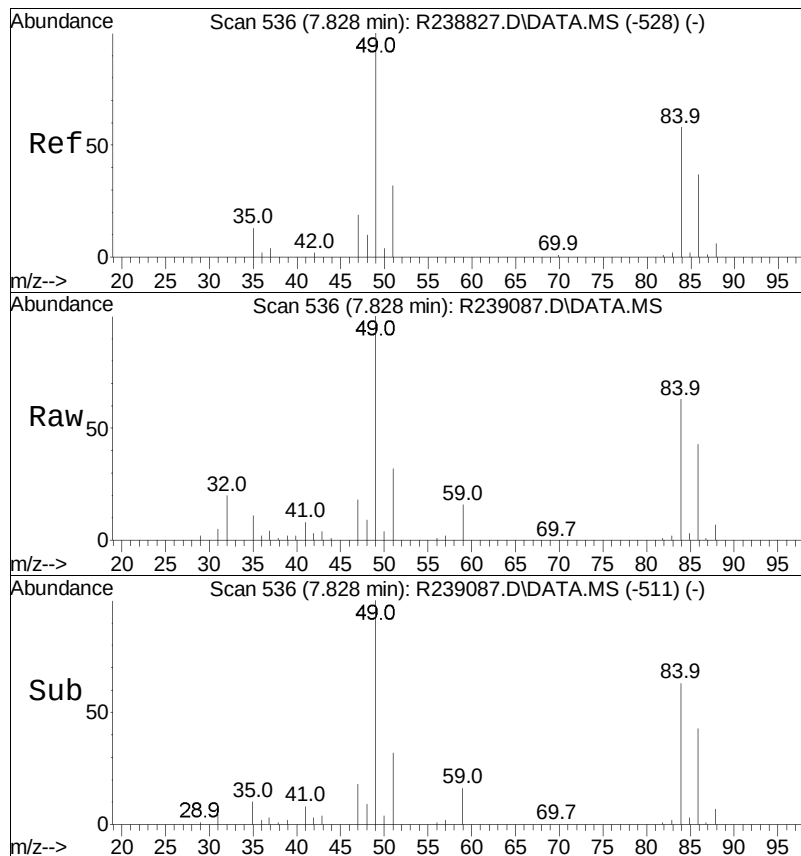




#27
 tertiary butyl alcohol
 Concen: 8.63 ppbV
 RT: 7.79 min Scan# 531
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

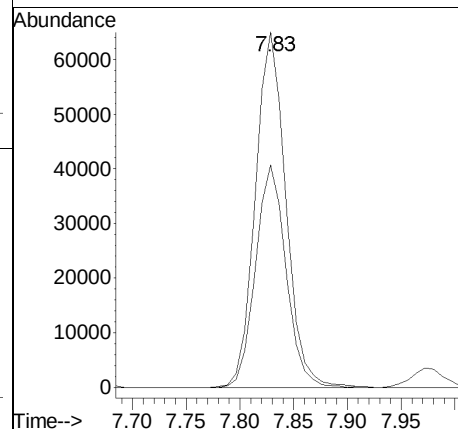
Tgt Ion	Ratio	Lower	Upper
59	100		
41	25.3	20.5	30.7
43	16.3	13.8	20.8

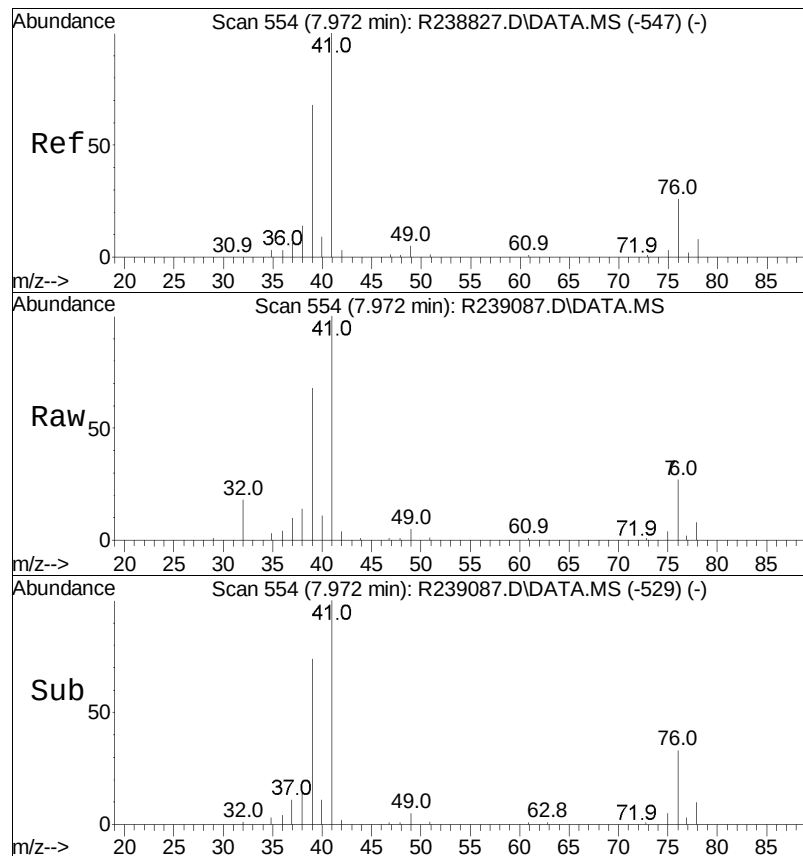




#28
 methylene chloride
 Concen: 9.12 ppbV
 RT: 7.83 min Scan# 536
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

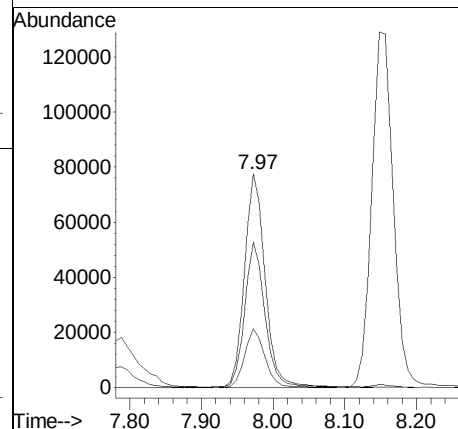
Tgt Ion:	49	84	Ratio	100	62.6	Resp:	127866	Lower	46.5	Upper	69.7
Ion	49	84	Ratio	100	62.6	Resp:	127866	Lower	46.5	Upper	69.7

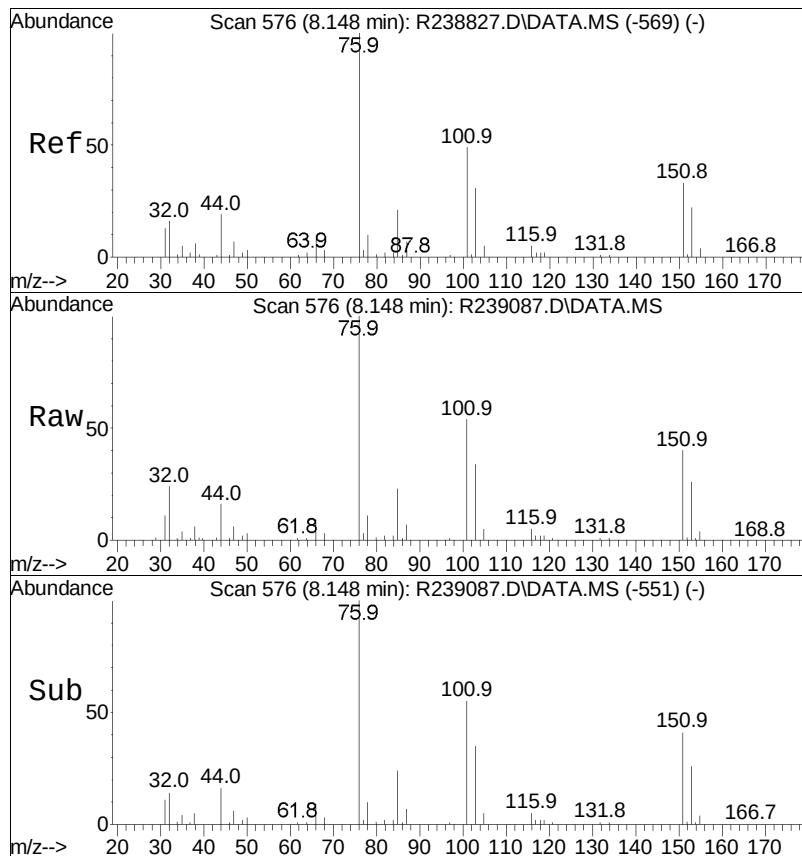




#29
 3-chloropropene
 Concen: 9.14 ppbV
 RT: 7.97 min Scan# 554
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

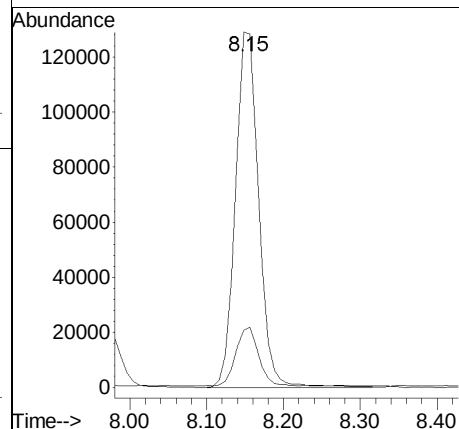
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	156182		
39	68.1		54.9	82.3
76	27.5		20.6	30.8

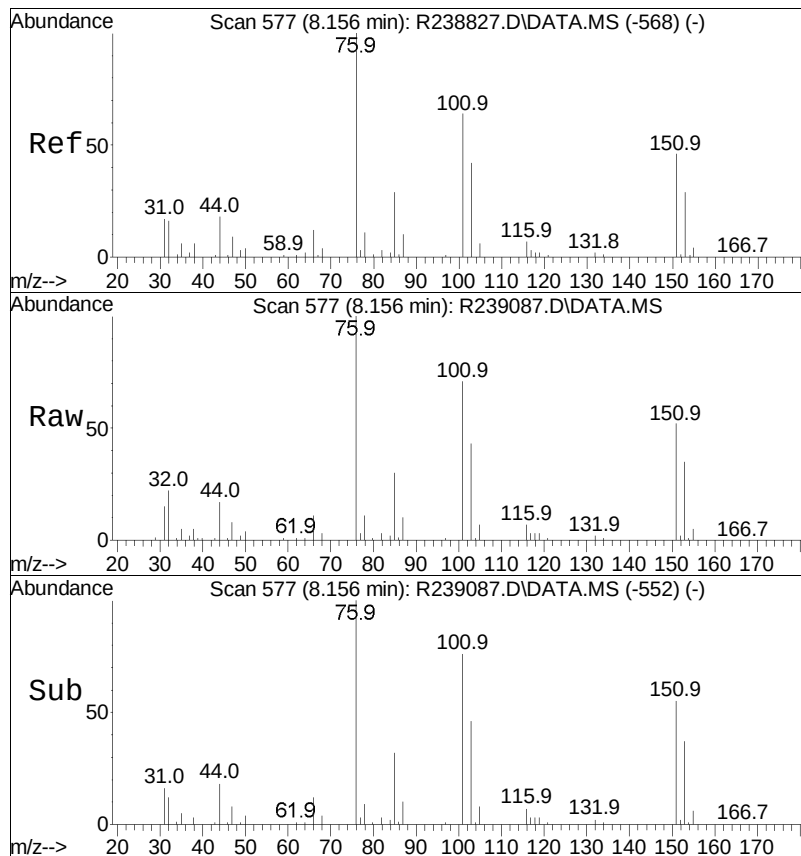




#30
carbon disulfide
Concen: 9.63 ppbV
RT: 8.15 min Scan# 576
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

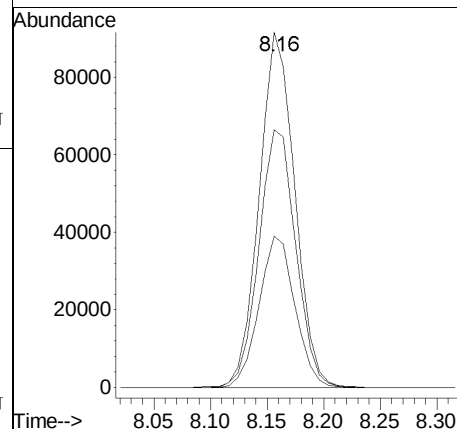
Tgt Ion	Ratio	Lower	Upper
76	100		
44	16.1	15.8	23.6

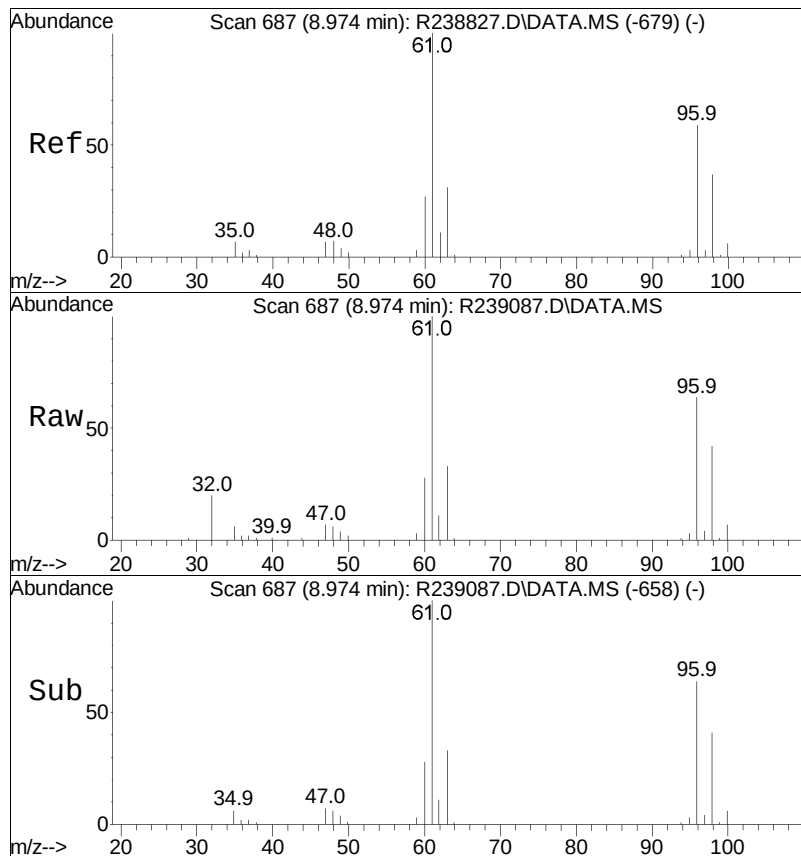




#31
 Freon 113
 Concen: 10.31 ppbV
 RT: 8.16 min Scan# 577
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

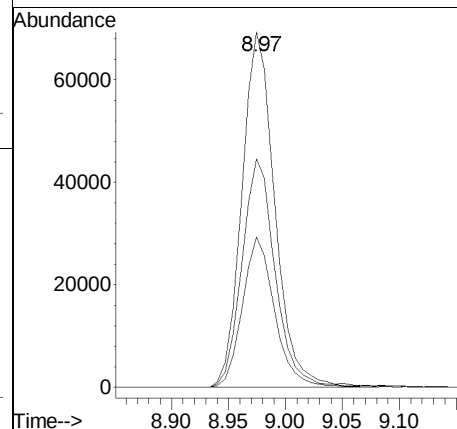
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	200088		
85	42.6		35.8	53.6
151	72.5		57.4	86.2

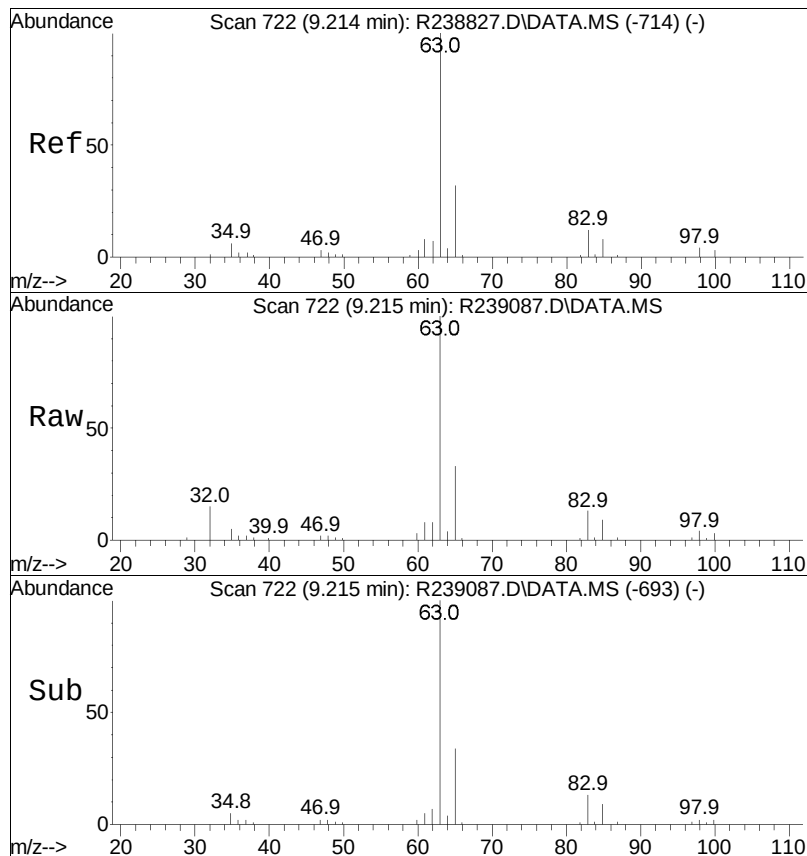




#32
 trans-1,2-dichloroethene
 Concen: 8.44 ppbV
 RT: 8.97 min Scan# 687
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

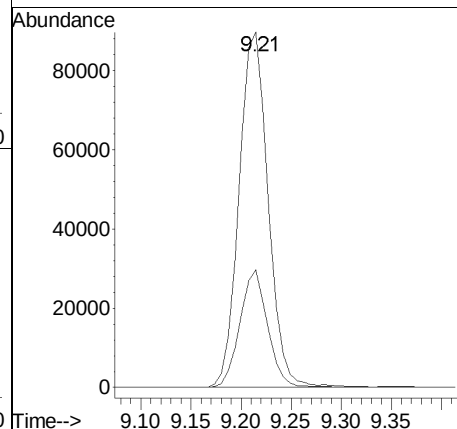
Tgt	Ion: 61	Resp:	139882
Ion	Ratio	Lower	Upper
61	100		
96	64.3	47.6	71.4
98	42.3	29.8	44.6

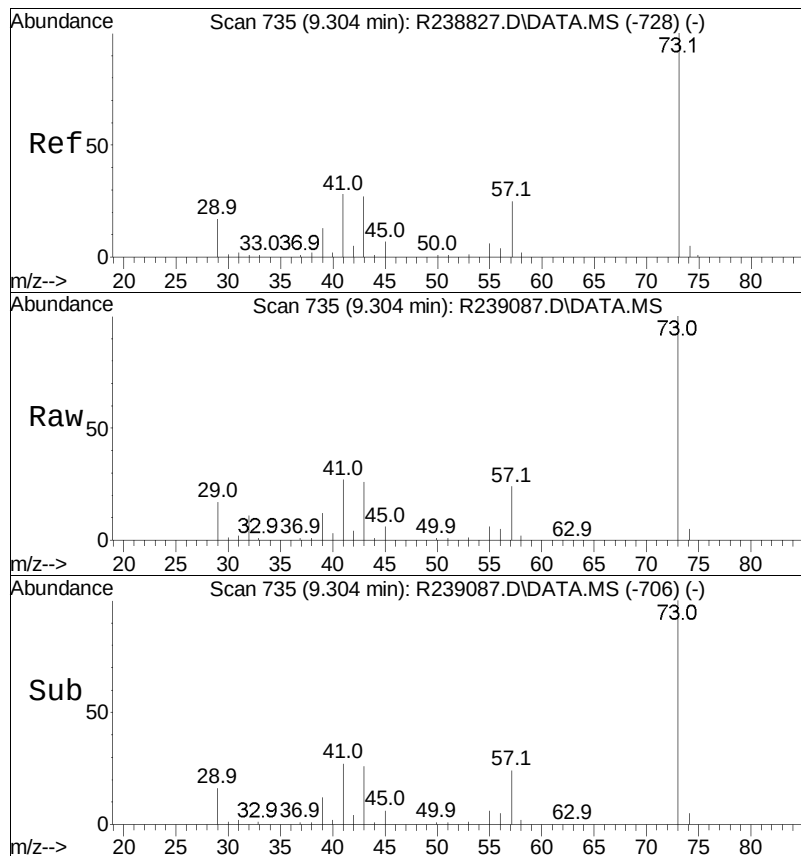




#33
 1,1-dichloroethane
 Concen: 9.43 ppbV
 RT: 9.21 min Scan# 722
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

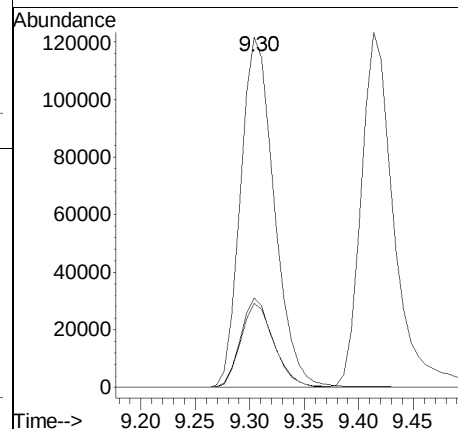
Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.2	37.8

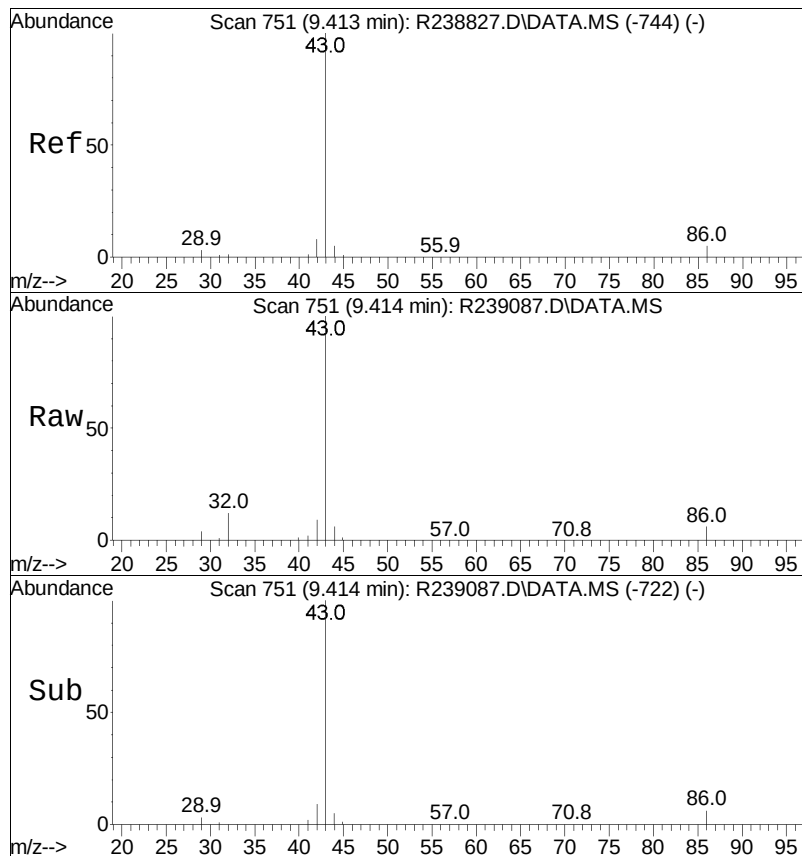




#34
 MTBE
 Concen: 9.32 ppbV
 RT: 9.30 min Scan# 735
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

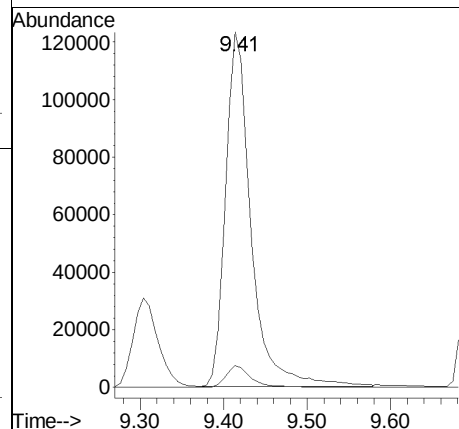
Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.0	19.9	29.9
43	25.6	21.9	32.9

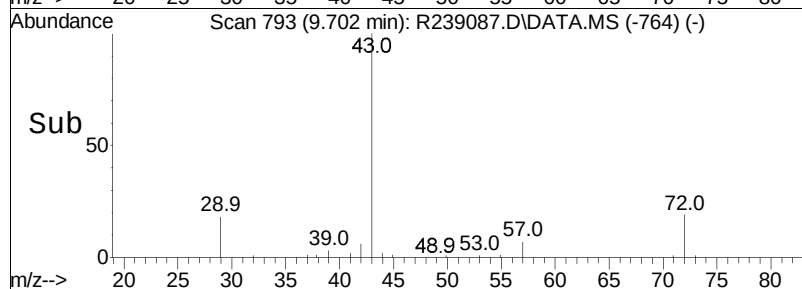
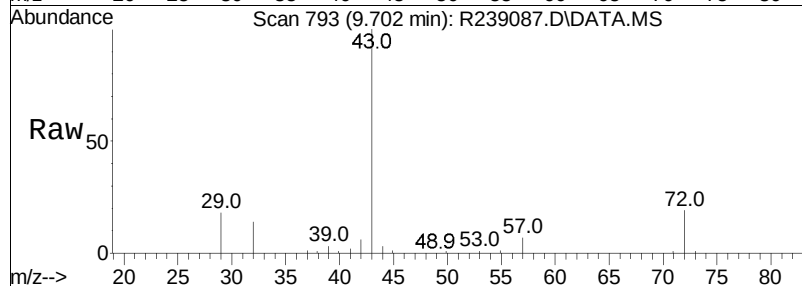
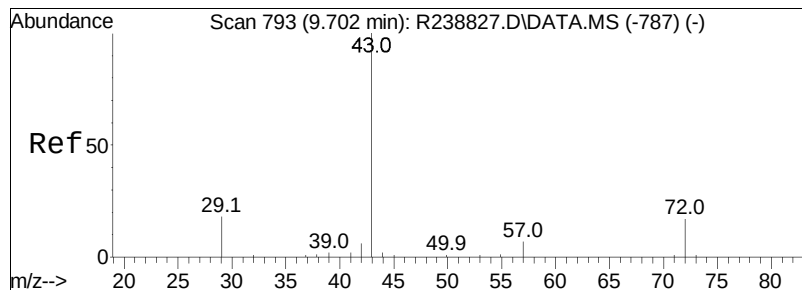




#35
 vinyl acetate
 Concen: 10.41 ppbV
 RT: 9.41 min Scan# 751
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
86	6.1	4.4	6.6





#36

2-butanone

Concen: 8.91 ppbV

RT: 9.70 min Scan# 793

Delta R.T. 0.000 min

Lab File: R239087.D

Acq: 19 Feb 2016 2:17 pm

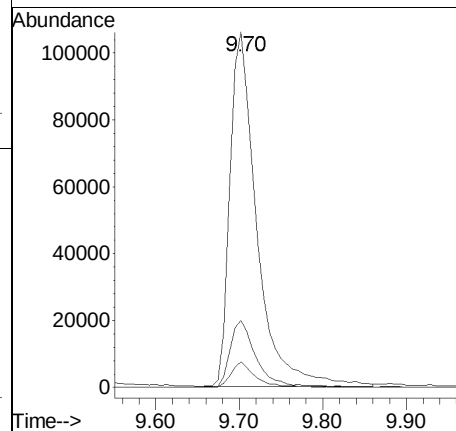
Tgt Ion: 43 Resp: 237927

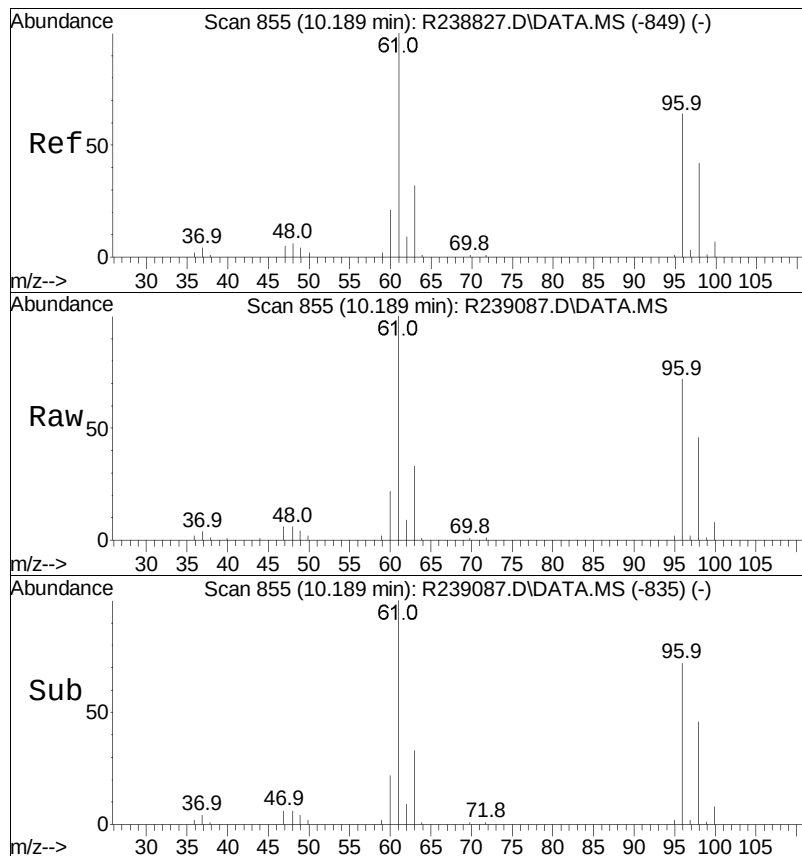
Ion Ratio Lower Upper

43 100

72 18.8 13.5 20.3

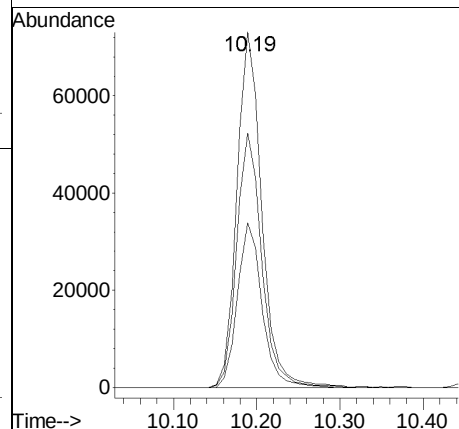
57 7.2 5.5 8.3

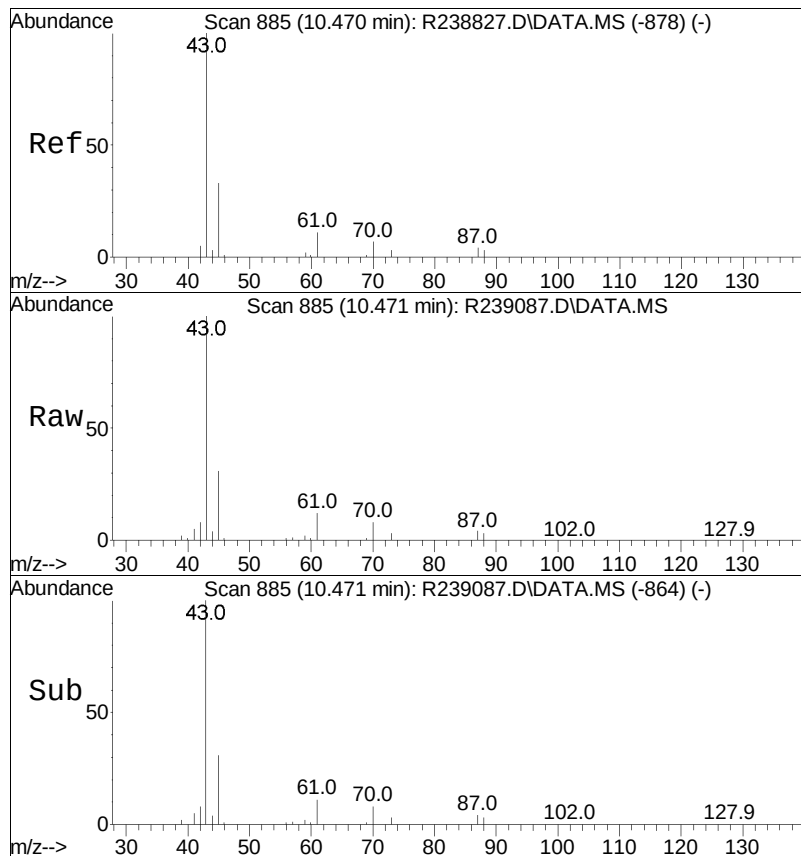




#37
 cis-1,2-dichloroethene
 Concen: 10.04 ppbV
 RT: 10.19 min Scan# 855
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

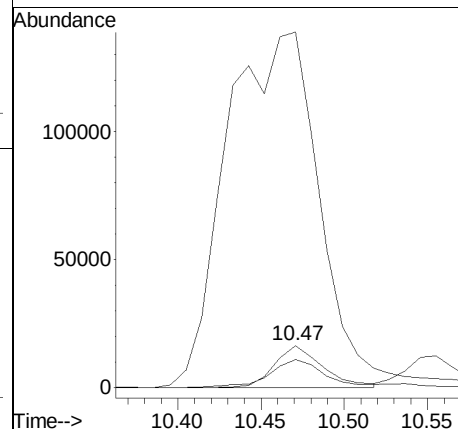
Tgt Ion	Ratio	Lower	Upper
61	100		
96	71.6	51.6	77.4
98	46.4	33.5	50.3

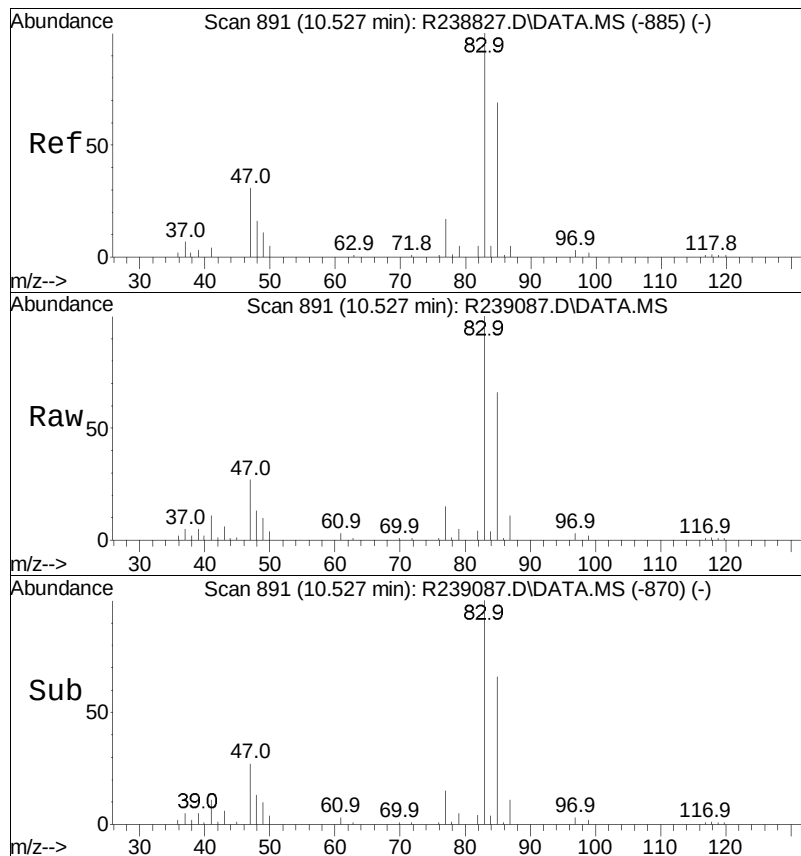




#38
 Ethyl Acetate
 Concen: 10.19 ppbV
 RT: 10.47 min Scan# 885
 Delta R.T. 0.001 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

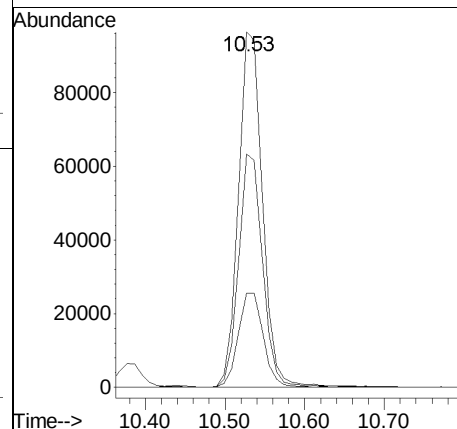
Tgt Ion:	61	Resp:	32786
Ion Ratio	Lower	Upper	
61	100		
70	66.7	54.6	81.8
43	851.7	753.4	1130.0

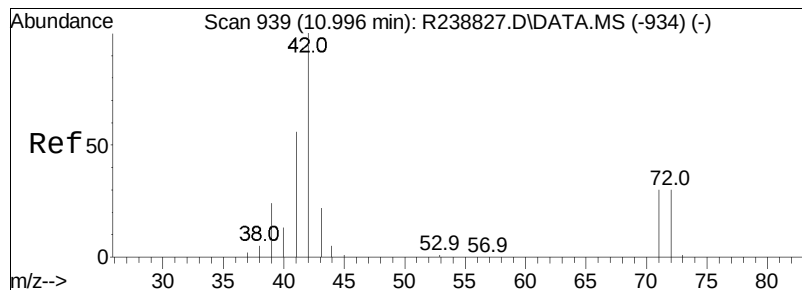




#39
chloroform
Concen: 9.89 ppbV
RT: 10.53 min Scan# 891
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	203234		
85	65.7		55.1	82.7
47	26.6		24.9	37.3





#40

Tetrahydrofuran

Concen: 7.98 ppbV m

RT: 11.00 min Scan# 939

Delta R.T. 0.000 min

Lab File: R239087.D

Acq: 19 Feb 2016 2:17 pm

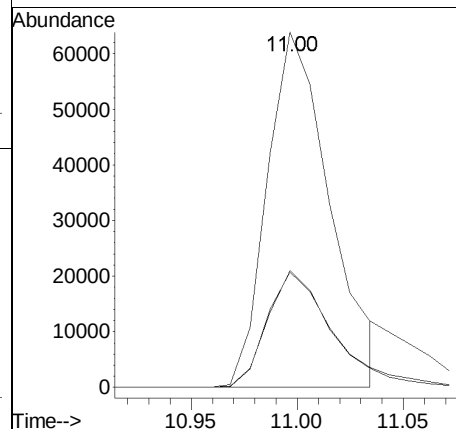
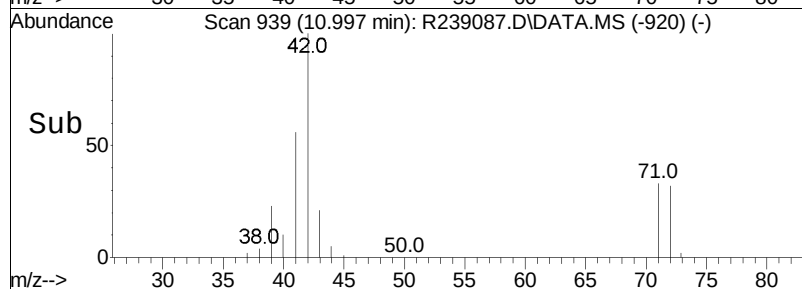
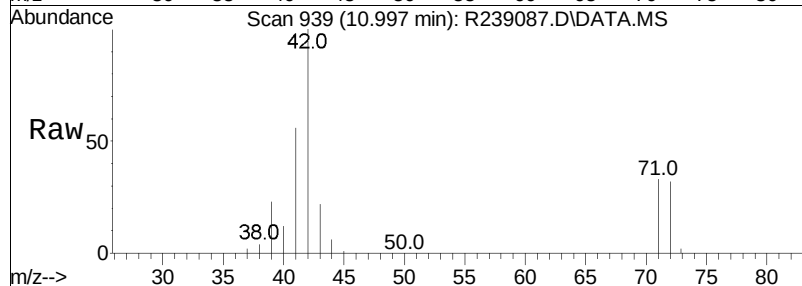
Tgt Ion: 42 Resp: 131532

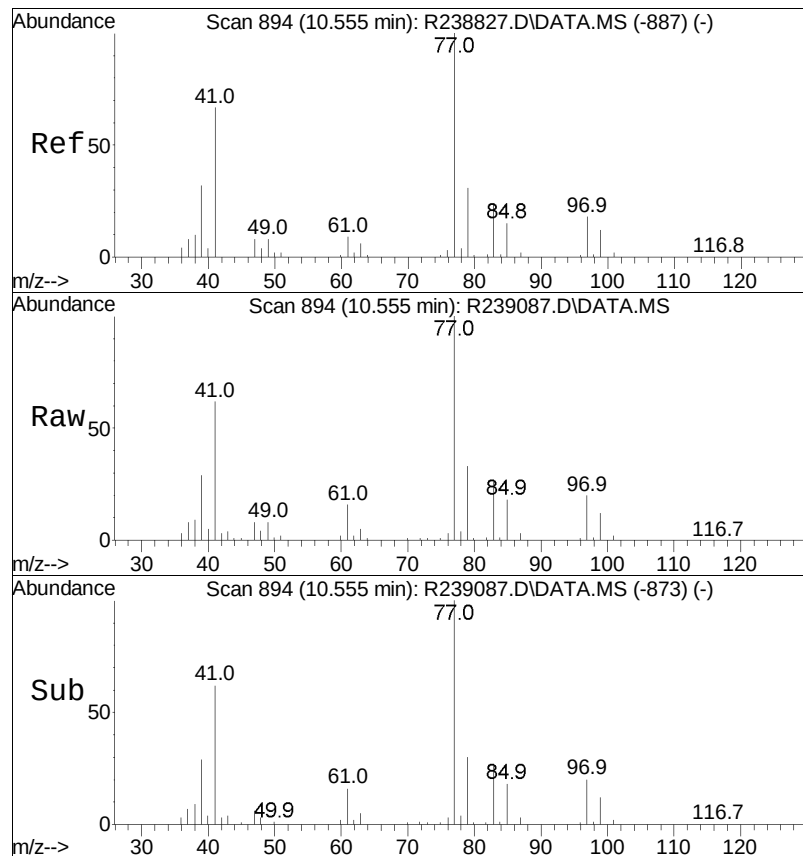
Ion Ratio Lower Upper

42 100

71 32.8 23.8 35.6

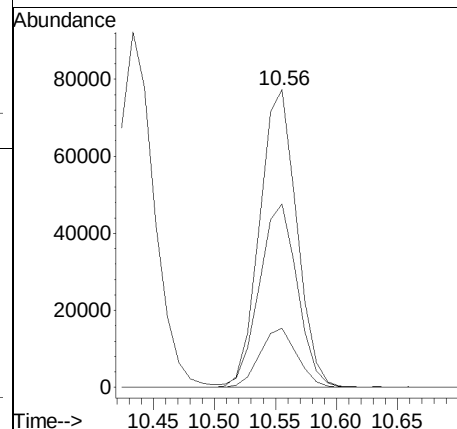
72 32.4 23.8 35.6

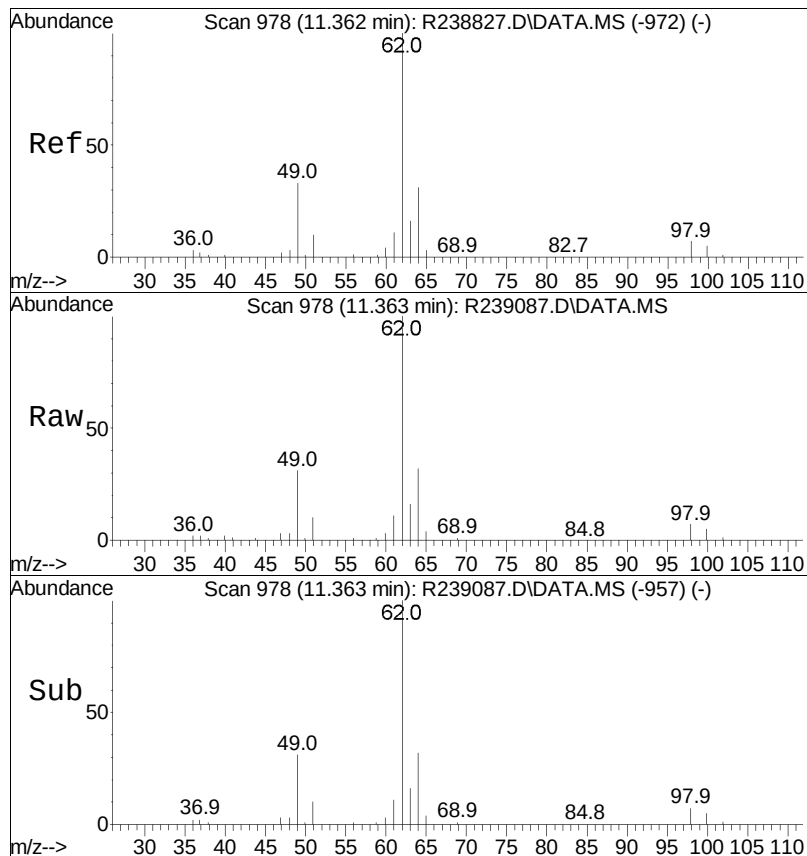




#41
 2,2-dichloropropane
 Concen: 8.52 ppbV
 RT: 10.56 min Scan# 894
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

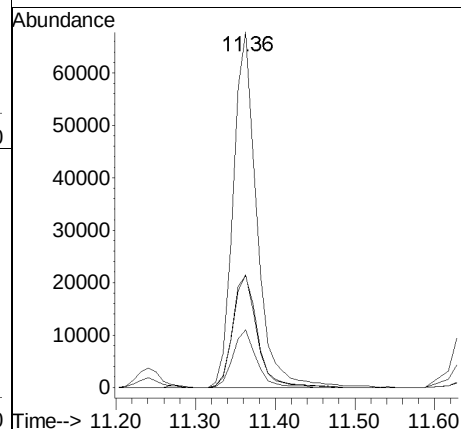
Tgt Ion	Ratio	Lower	Upper
77	100		
41	61.6	54.8	82.2
97	19.9	14.8	22.2

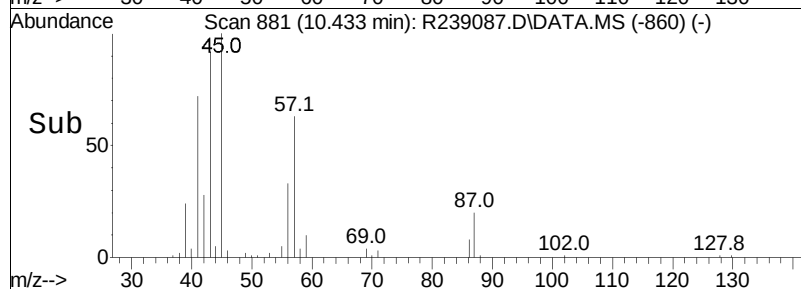
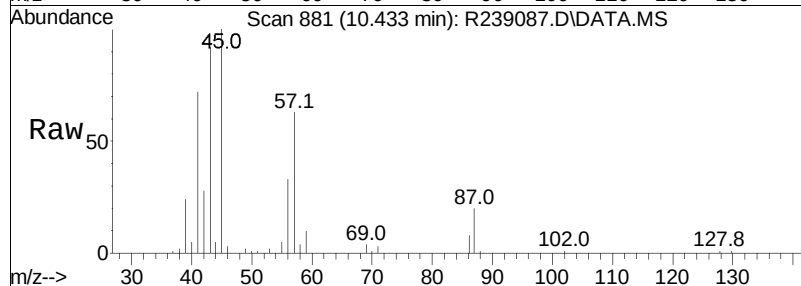
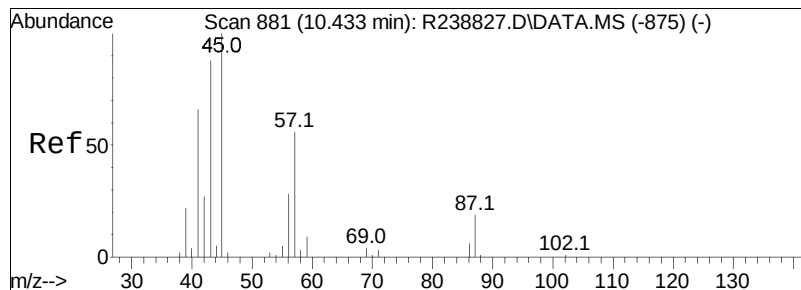




#42
 1,2-dichloroethane
 Concen: 9.38 ppbV
 RT: 11.36 min Scan# 978
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

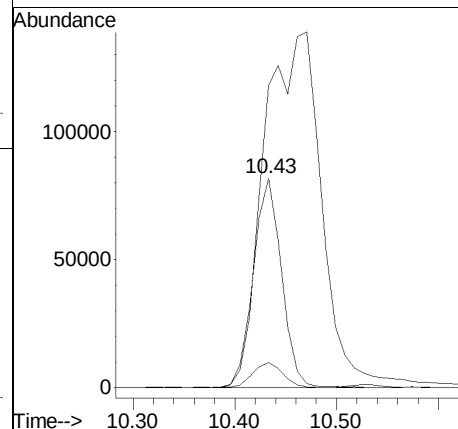
Tgt Ion:	62	Resp:	140496
Ion Ratio	Lower	Upper	
62	100		
64	31.7	24.7	37.1
49	31.4	26.6	39.8
63	16.2	12.6	19.0

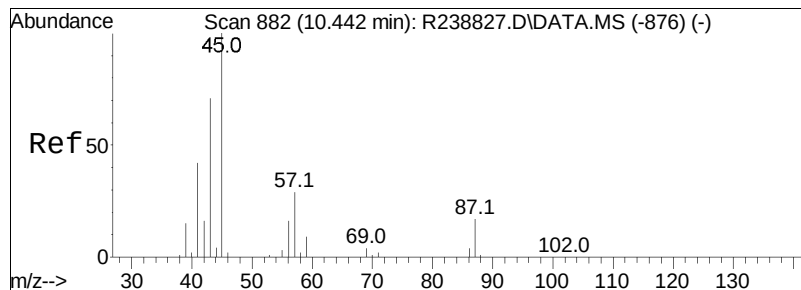




#44
hexane
Concen: 7.86 ppbV
RT: 10.43 min Scan# 881
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

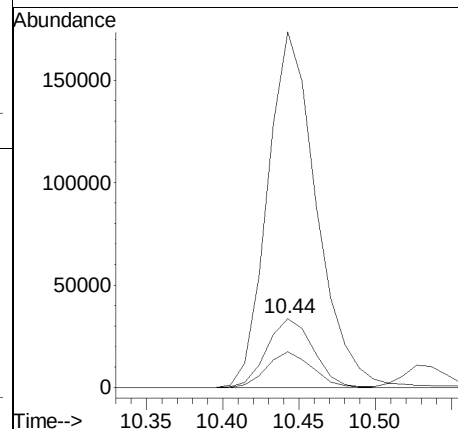
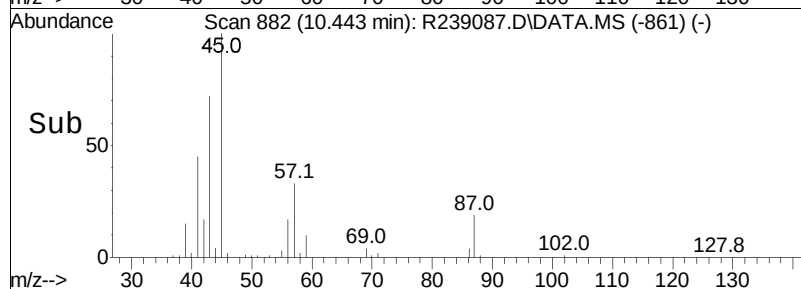
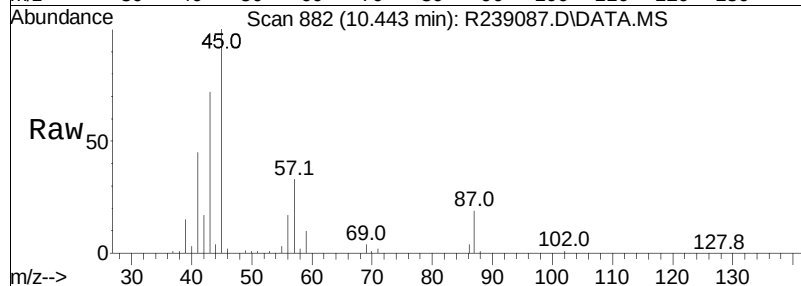
Tgt Ion:	57	Resp:	157395
Ion Ratio	Lower	Upper	
57	100		
43	144.6	125.3	187.9
86	11.9	9.0	13.6

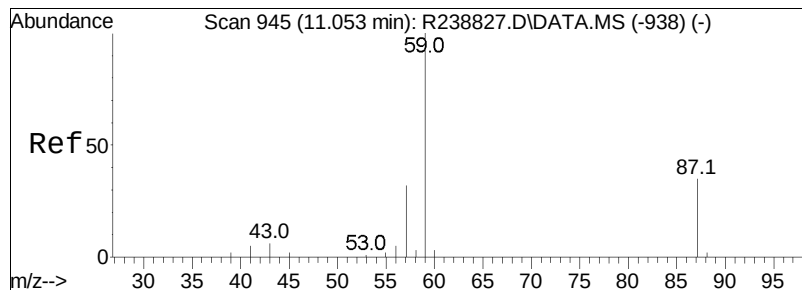




#45
diisopropyl ether
Concen: 7.91 ppbV
RT: 10.44 min Scan# 882
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

Tgt Ion	Ratio	Lower	Upper
87	100		
59	51.8	43.4	65.2
45	516.8	463.7	695.5





#46

tert-butyl ethyl ether

Concen: 7.48 ppbV

RT: 11.05 min Scan# 945

Delta R.T. 0.000 min

Lab File: R239087.D

Acq: 19 Feb 2016 2:17 pm

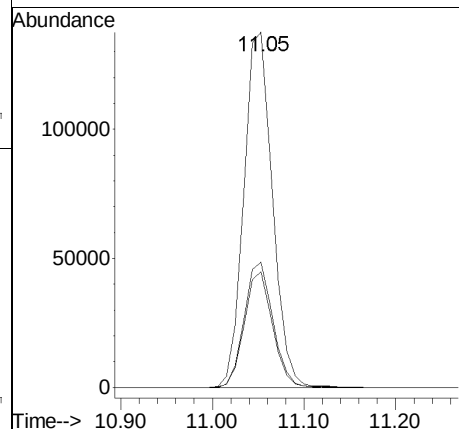
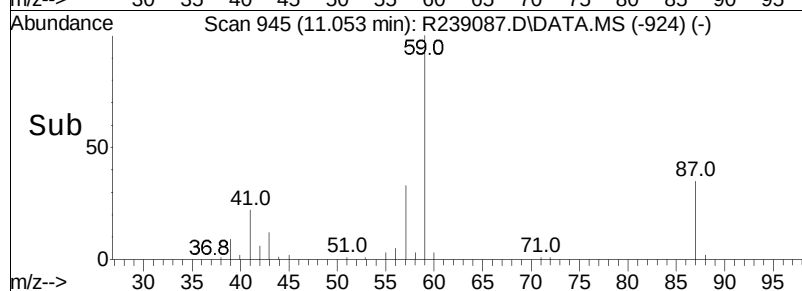
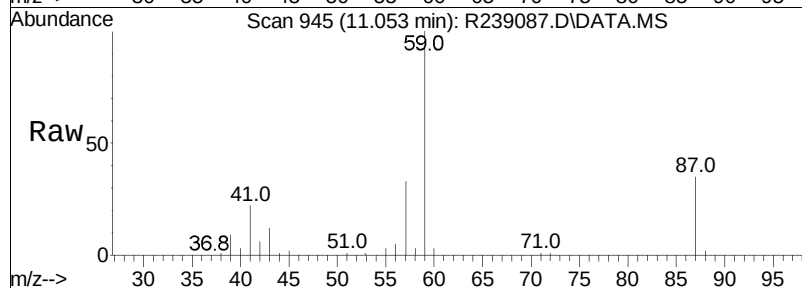
Tgt Ion: 59 Resp: 298901

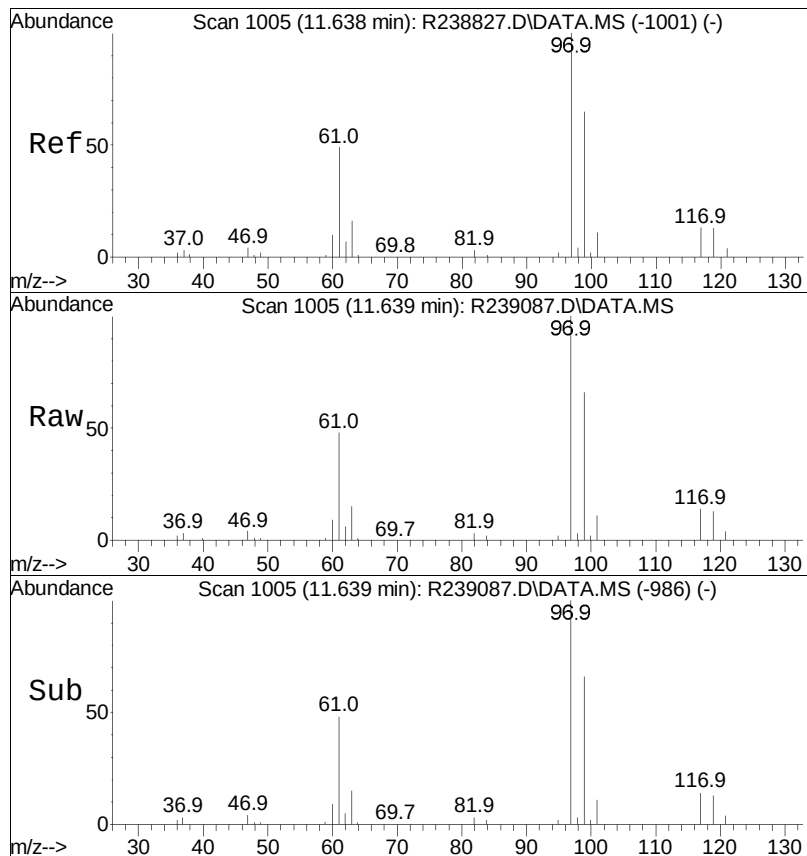
Ion Ratio Lower Upper

59 100

87 35.2 27.7 41.5

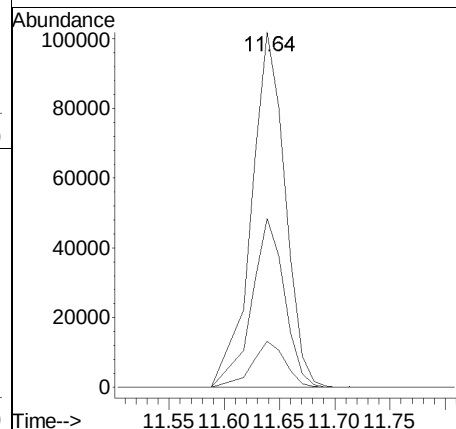
57 32.6 25.4 38.0

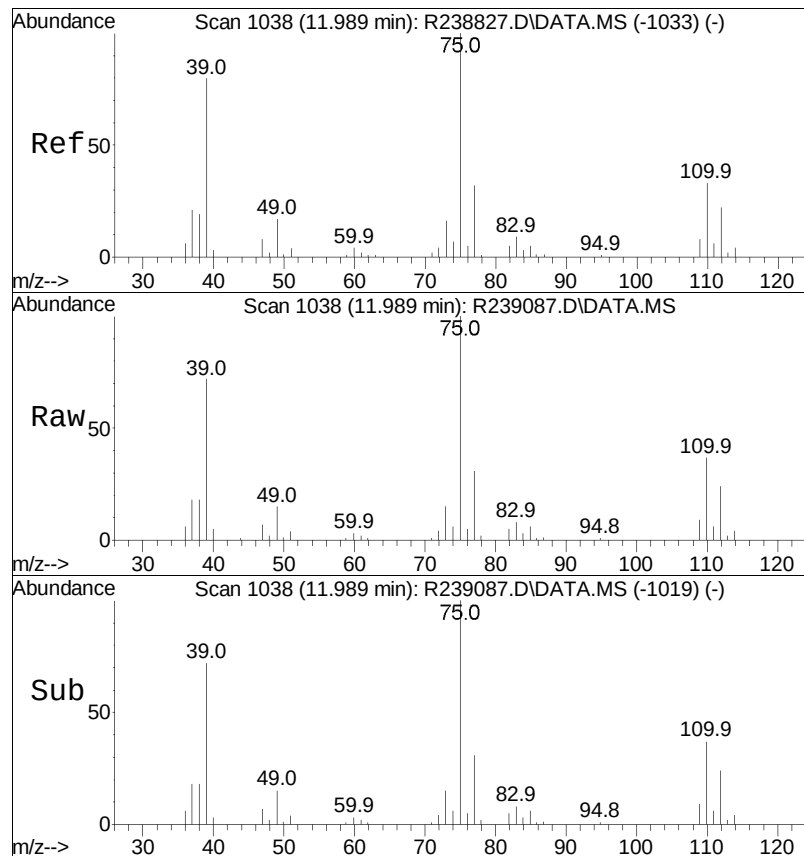




#48
 1,1,1-trichloroethane
 Concen: 8.26 ppbV
 RT: 11.64 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

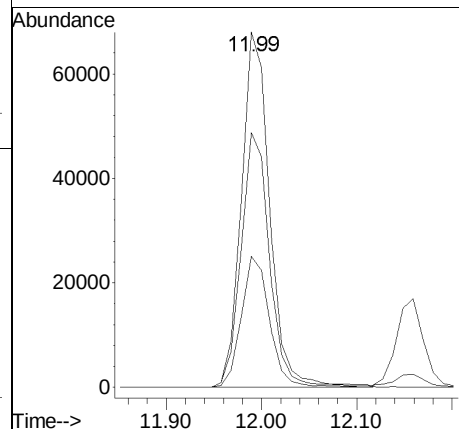
Tgt Ion:	97	Resp:	229560
Ion Ratio	Lower	Upper	
97	100		
61	47.6	39.4	59.0
119	13.0	10.1	15.1

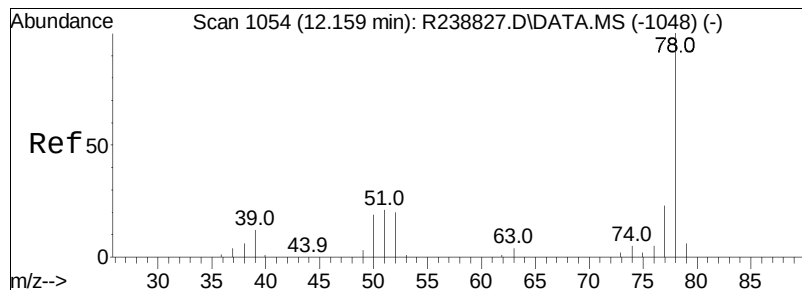




#49
 1,1-dichloropropene
 Concen: 7.92 ppbV
 RT: 11.99 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

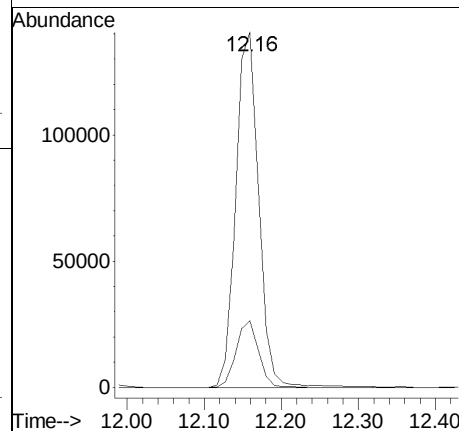
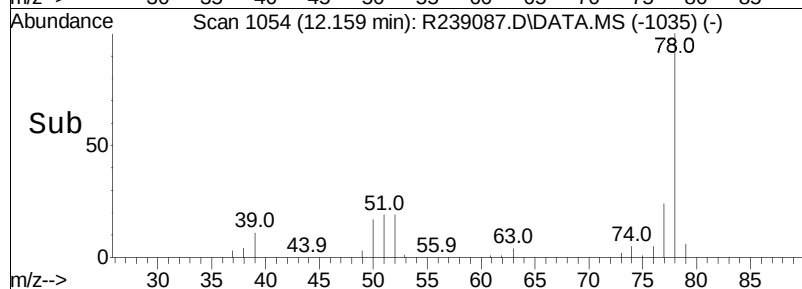
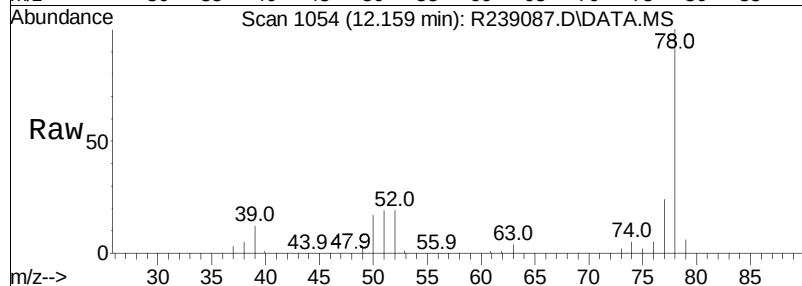
Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.9	26.7	40.1
39	71.7	63.8	95.8

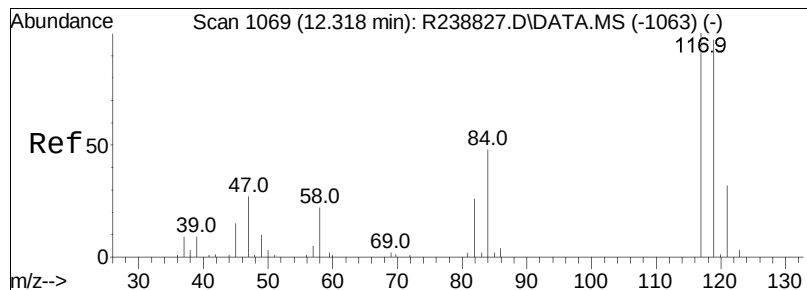




#50
benzene
Concen: 8.38 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

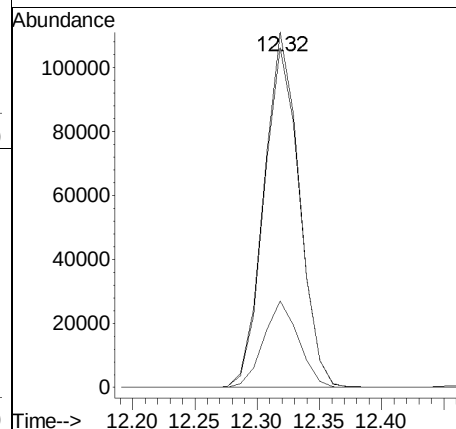
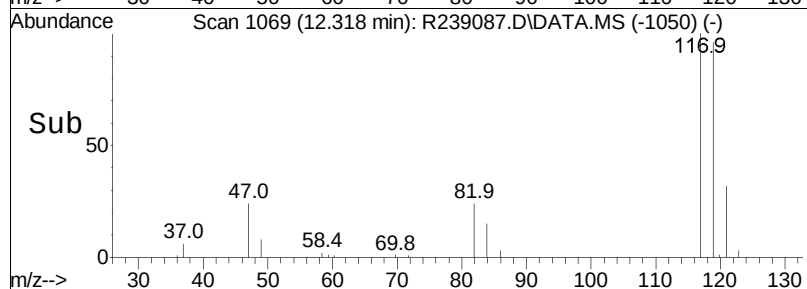
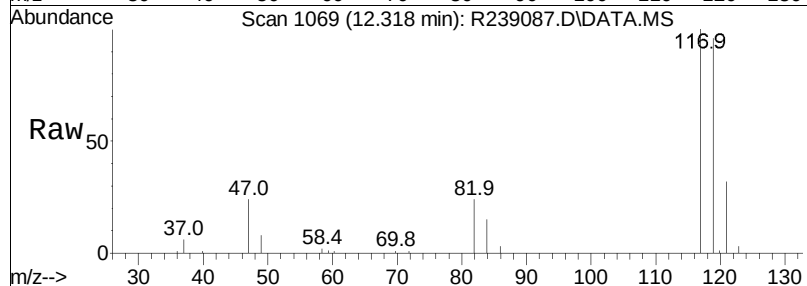
Tgt Ion	Ratio	Lower	Upper
78	100		
52	18.7	15.9	23.9

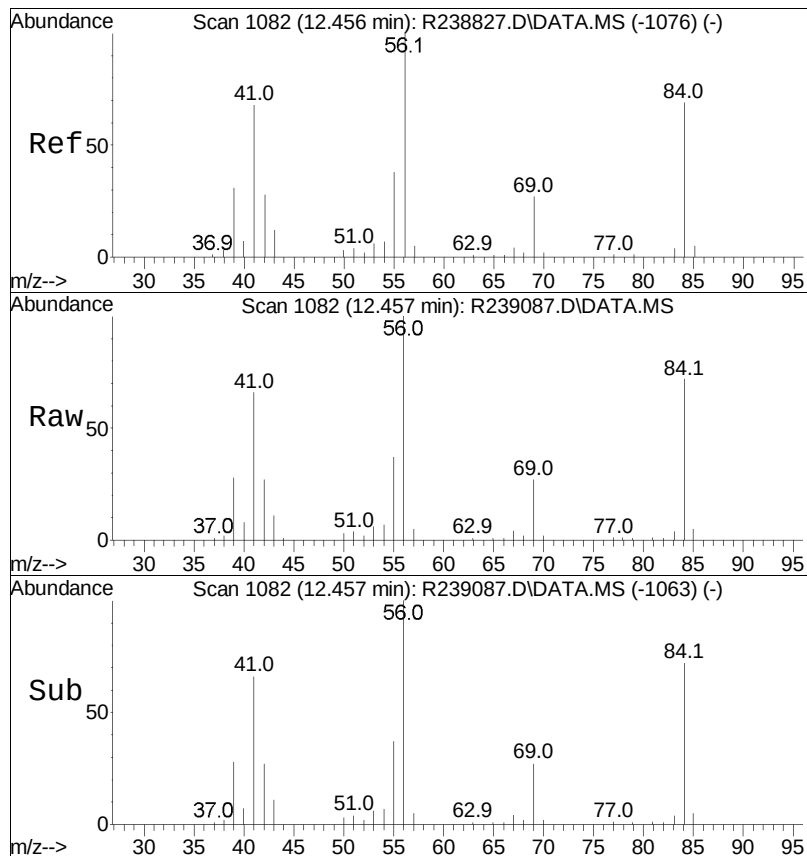




#52
carbon tetrachloride
Concen: 8.62 ppbV
RT: 12.32 min Scan# 1069
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

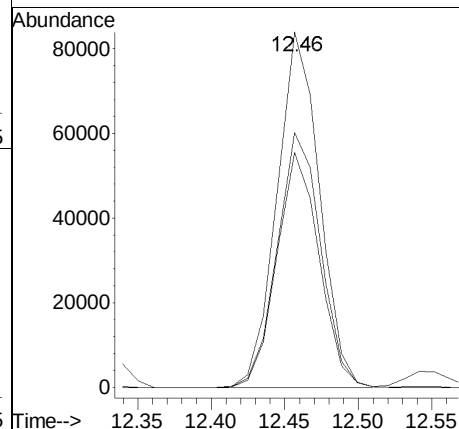
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.7	116.5
82	24.3	20.8	31.2

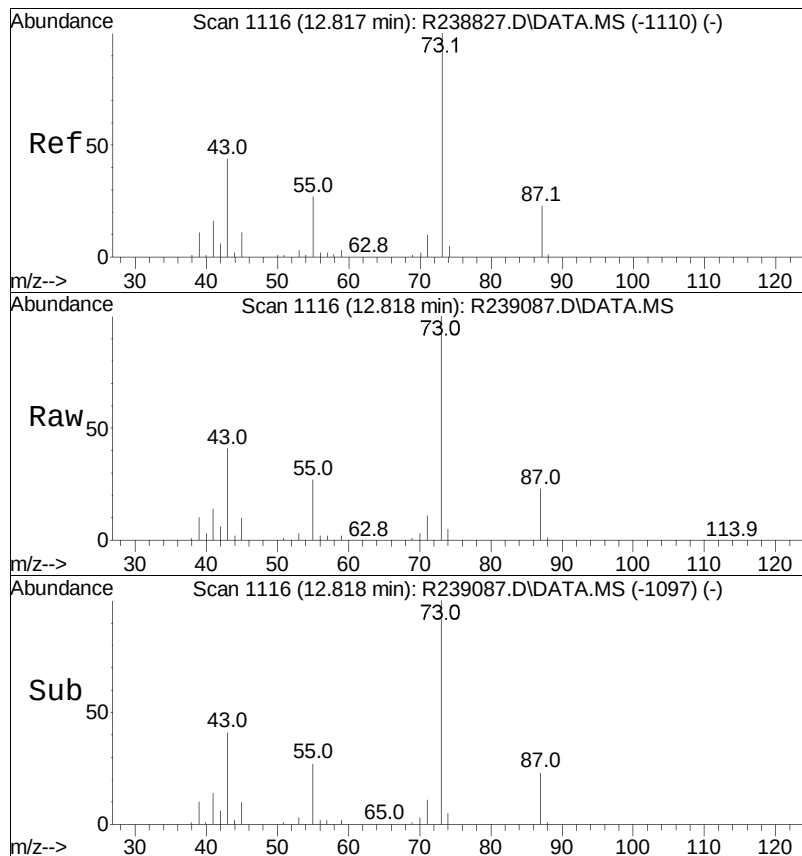




#53
cyclohexane
Concen: 7.88 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

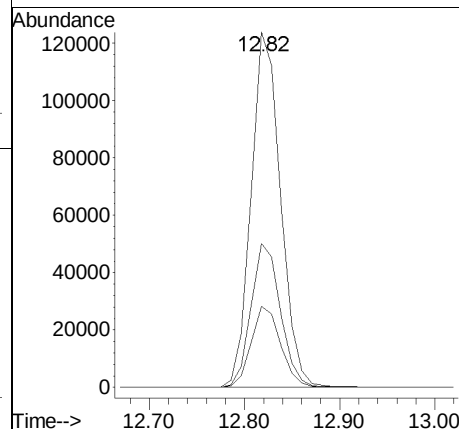
Tgt	Ion: 56	Resp: 168718
Ion	Ratio	Lower Upper
56	100	
84	71.7	56.2 84.4
41	66.1	54.6 82.0

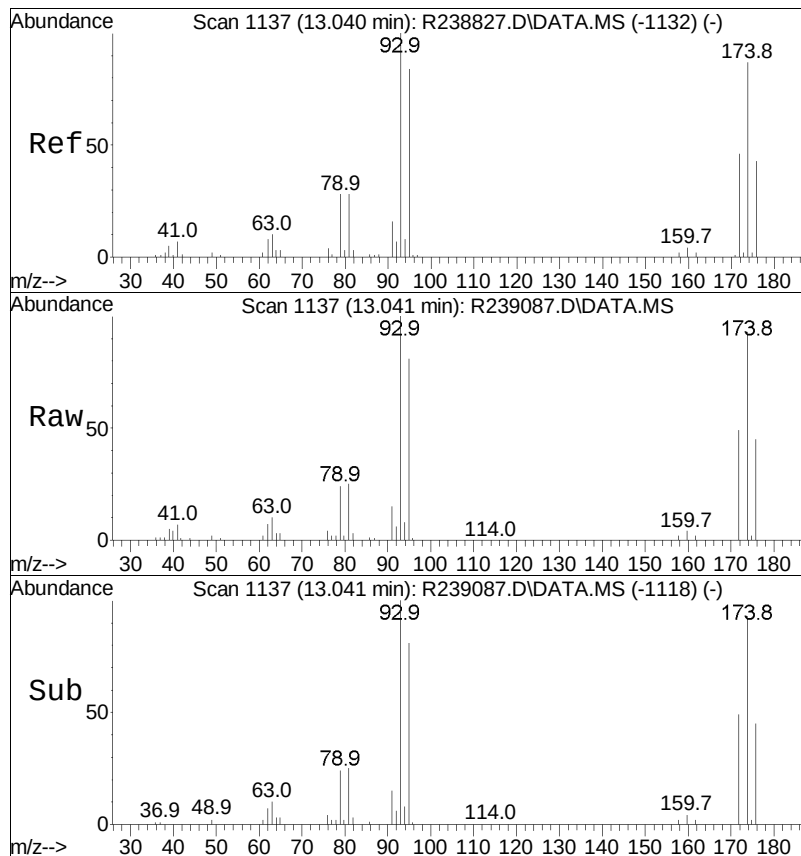




#54
 tert-amyl methyl ether
 Concen: 7.83 ppbV
 RT: 12.82 min Scan# 1116
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

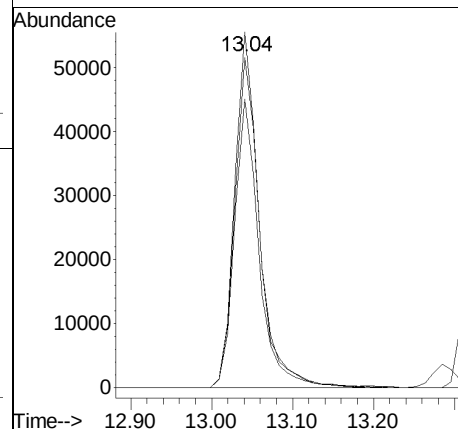
Tgt Ion:	73	Resp:	266279
Ion Ratio	Lower	Upper	
73	100		
43	40.5	35.2	52.8
87	22.8	18.2	27.2

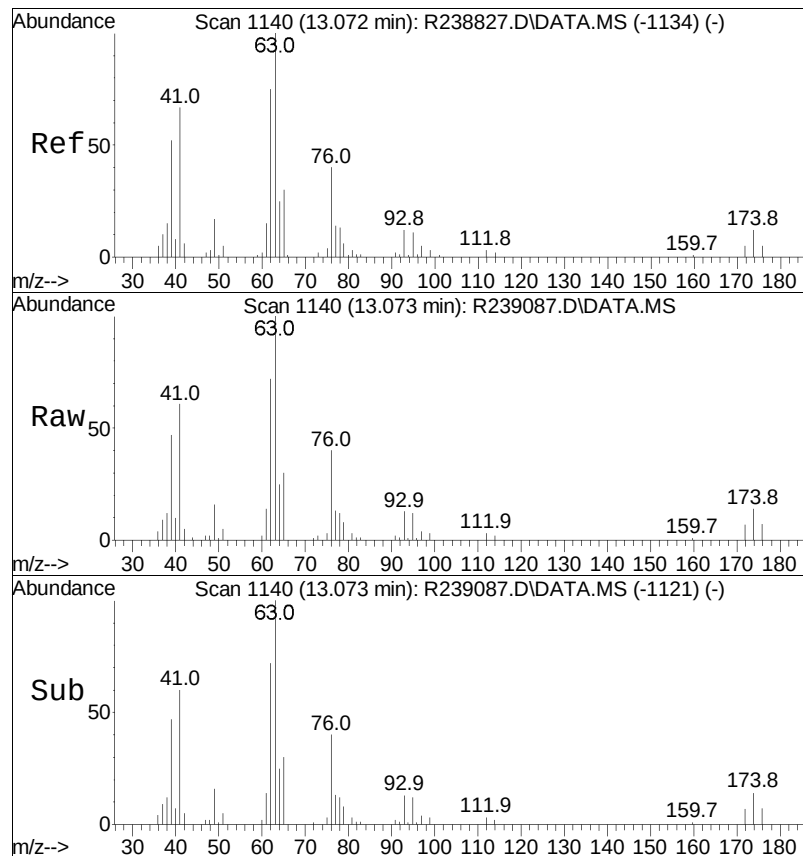




#55
dibromomethane
Concen: 8.43 ppbV
RT: 13.04 min Scan# 1137
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

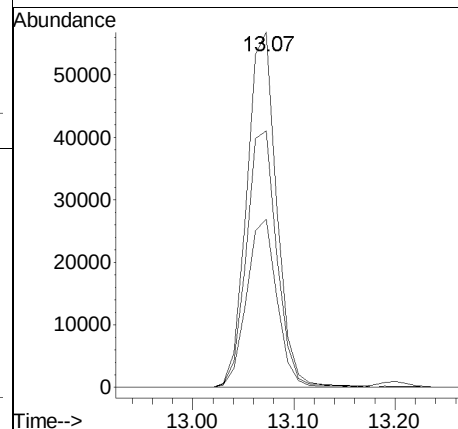
Tgt Ion	Ratio	Lower	Upper
93	100		
174	92.8	70.0	105.0
95	81.2	67.2	100.8

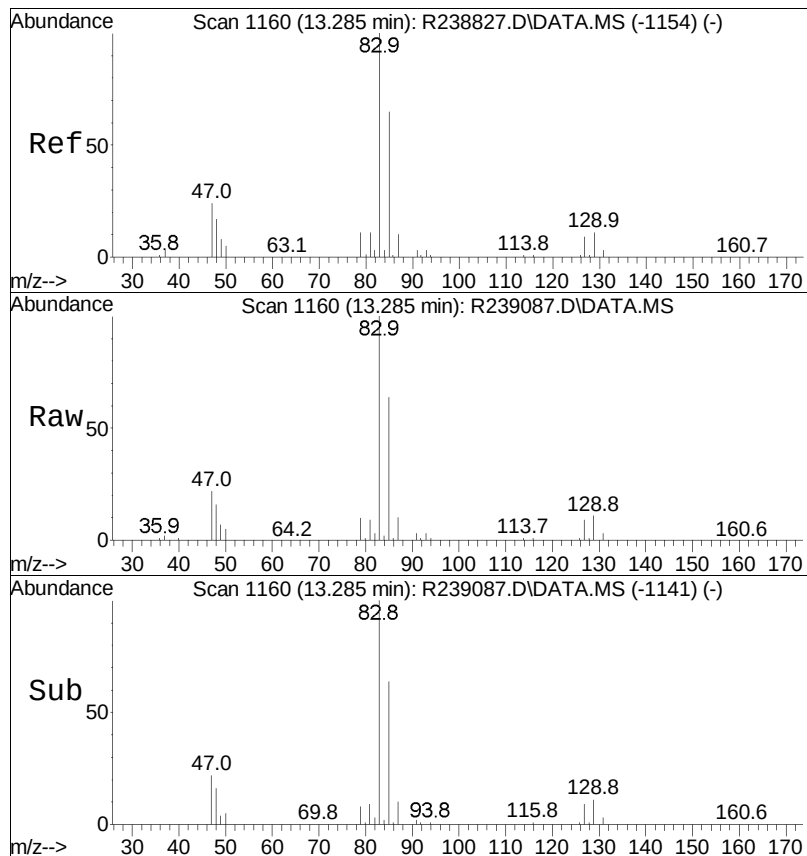




#56
 1,2-dichloropropane
 Concen: 8.32 ppbV
 RT: 13.07 min Scan# 1140
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

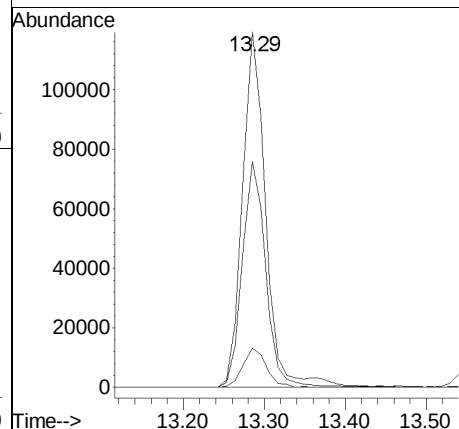
Tgt Ion	Ratio	Lower	Upper
63	100		
62	72.2	59.7	89.5
39	47.4	41.6	62.4

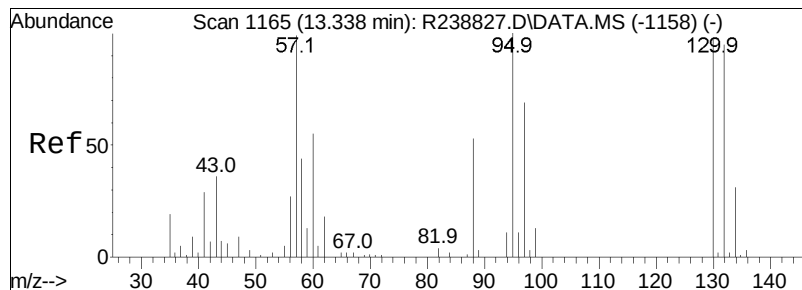




#57
 bromodichloromethane
 Concen: 8.87 ppbV
 RT: 13.29 min Scan# 1160
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

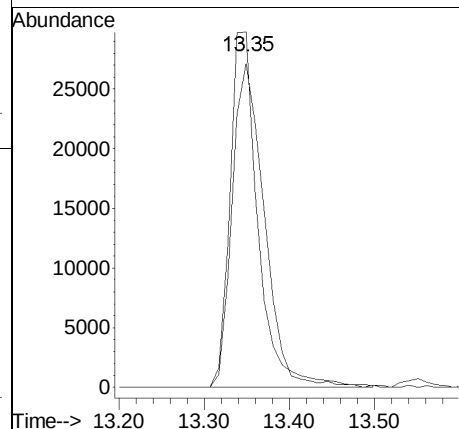
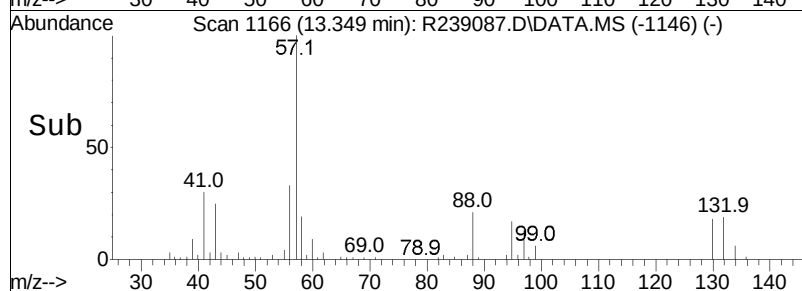
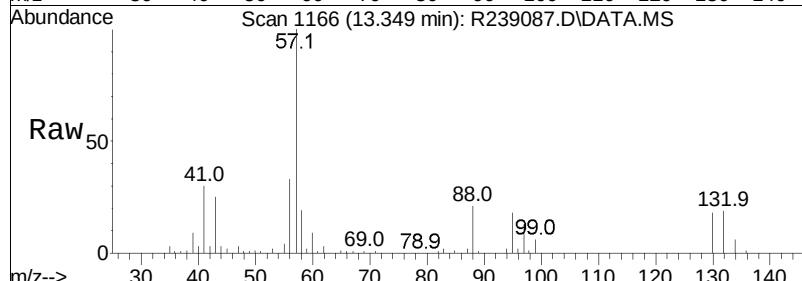
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		238804		
85	63.5	52.2		78.2	
129	11.0	8.9		13.3	

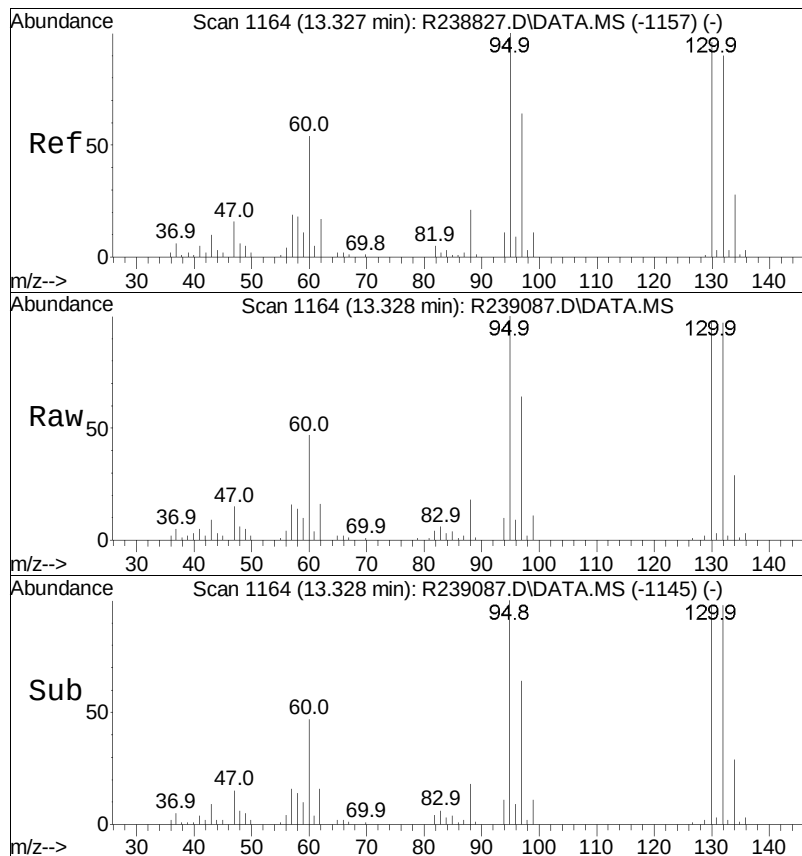




#58
 1,4-dioxane
 Concen: 8.95 ppbV
 RT: 13.35 min Scan# 1166
 Delta R.T. 0.011 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

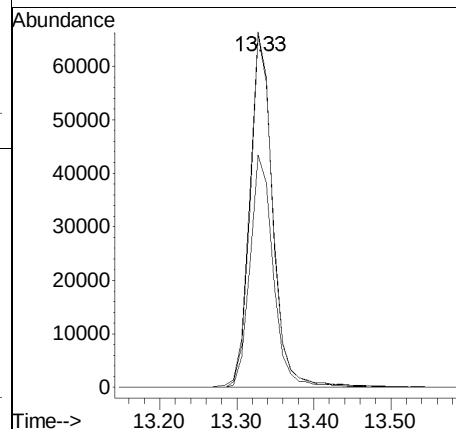
Tgt Ion	Ratio	Lower	Upper
88	100		
58	91.1	66.8	100.2

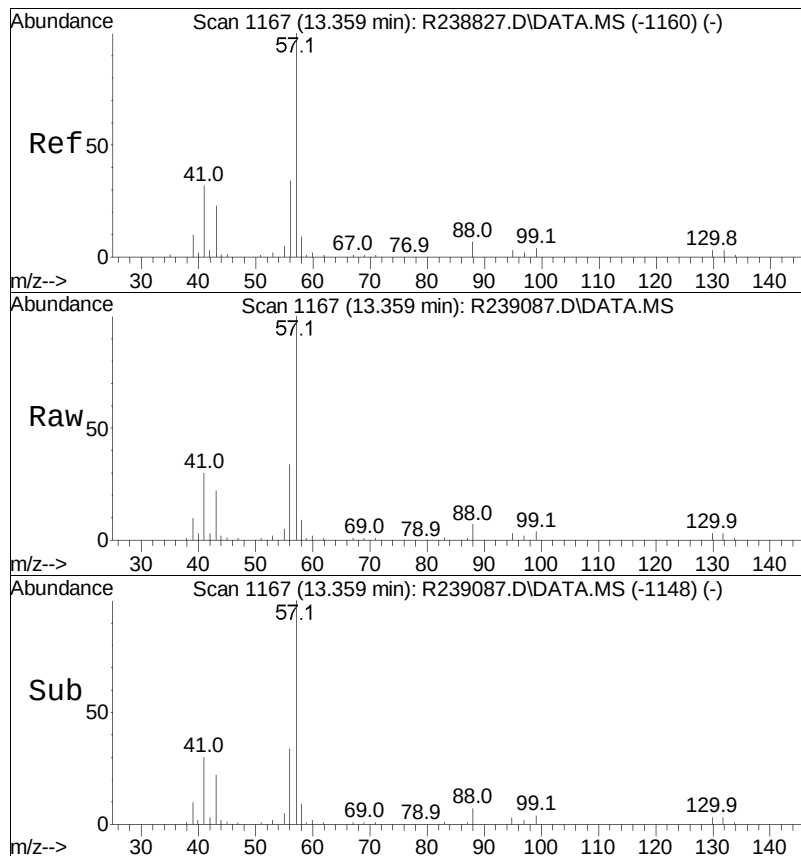




#59
trichloroethene
Concen: 9.60 ppbV
RT: 13.33 min Scan# 1164
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

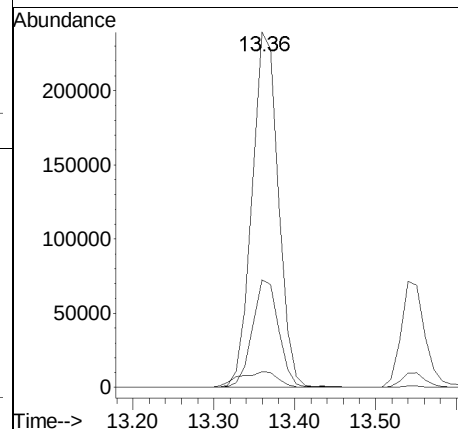
Tgt Ion	Ratio	Lower	Upper
130	100		
132	99.3	75.2	112.8
97	65.4	53.7	80.5

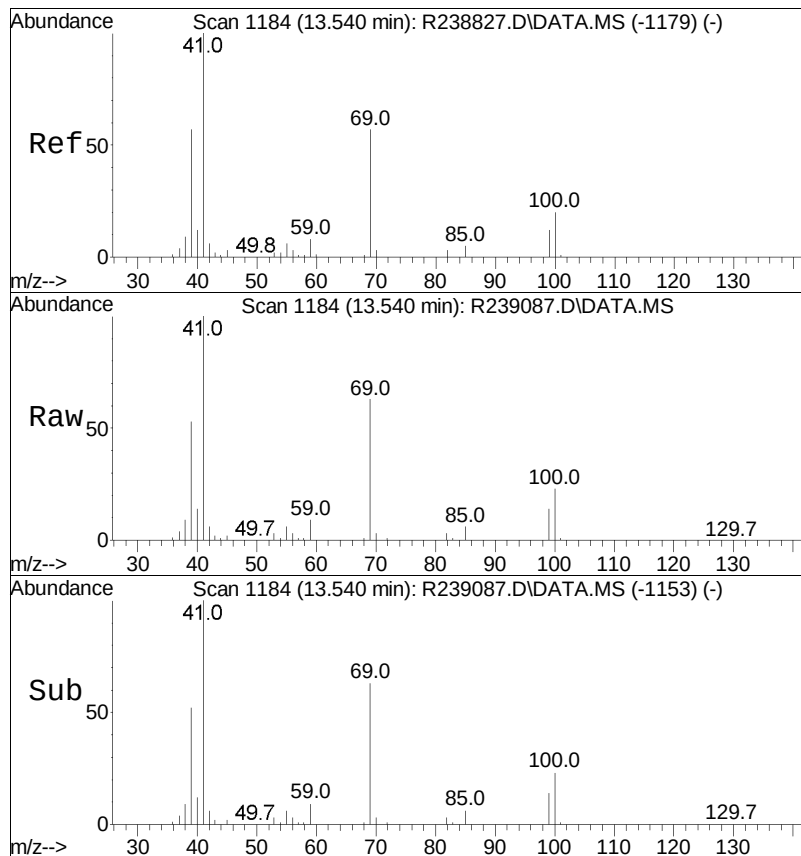




#60
 2,2,4-trimethylpentane
 Concen: 8.22 ppbV
 RT: 13.36 min Scan# 1167
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

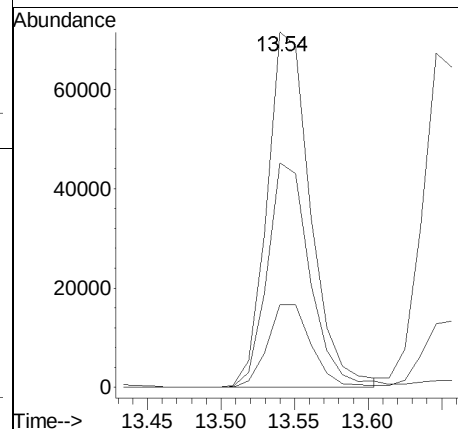
Tgt Ion	Ratio	Lower	Upper
57	100		
99	4.4	3.3	4.9
41	30.3	25.8	38.6

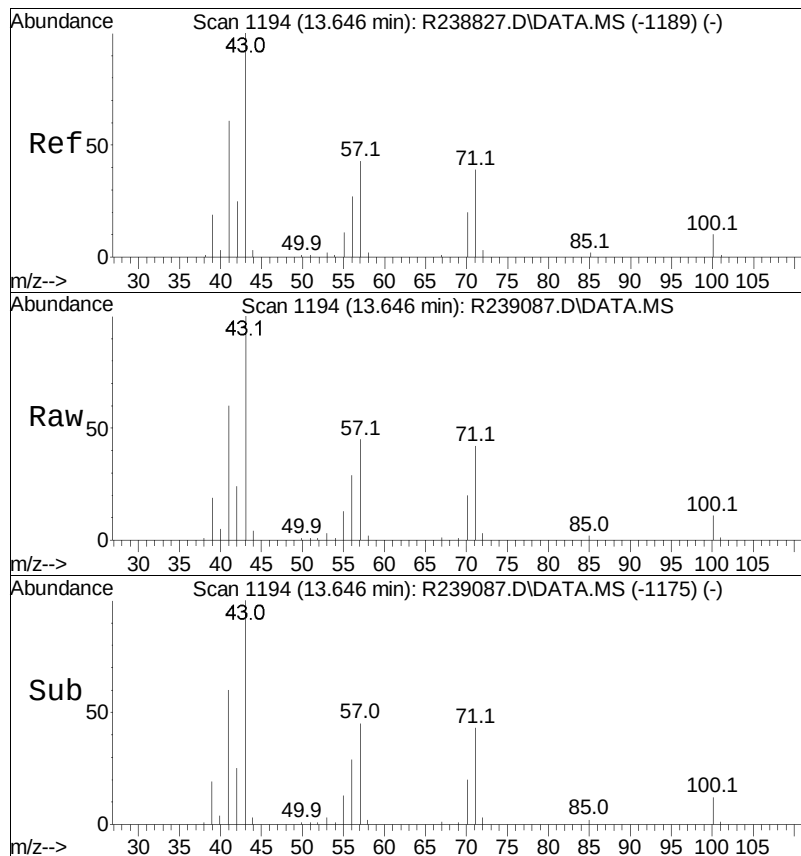




#61
methyl methacrylate
Concen: 7.10 ppbV
RT: 13.54 min Scan# 1184
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

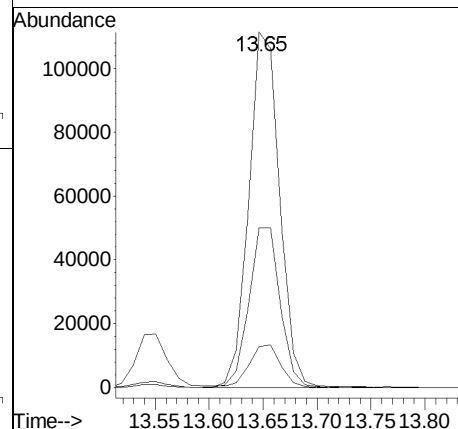
Tgt	Ion	Ratio	Lower	Upper
41	100			
69	62.3	45.5	68.3	
100	23.6	16.1	24.1	

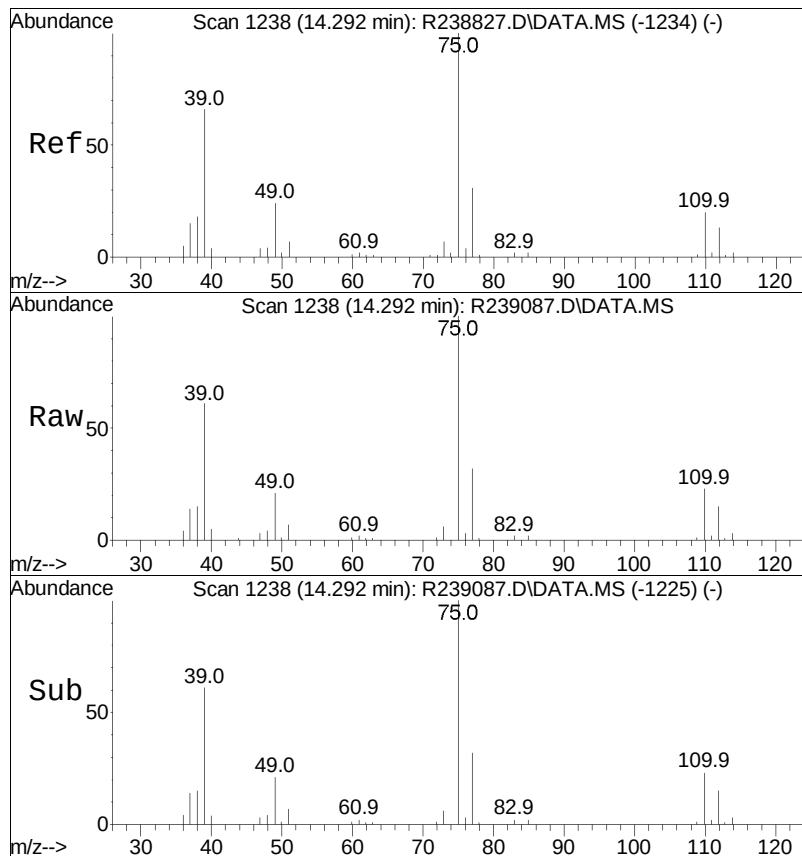




#62
heptane
Concen: 7.78 ppbV
RT: 13.65 min Scan# 1194
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

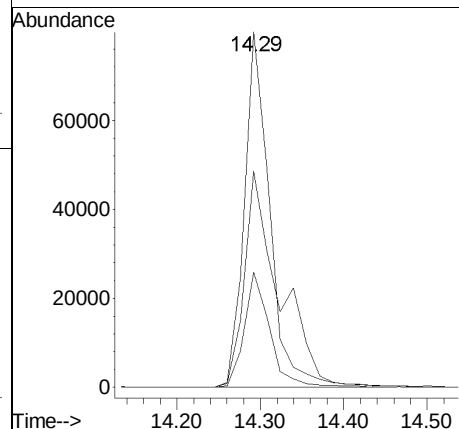
Tgt Ion	Ratio	Lower	Upper
43	100		
57	44.9	34.4	51.6
100	11.5	8.4	12.6

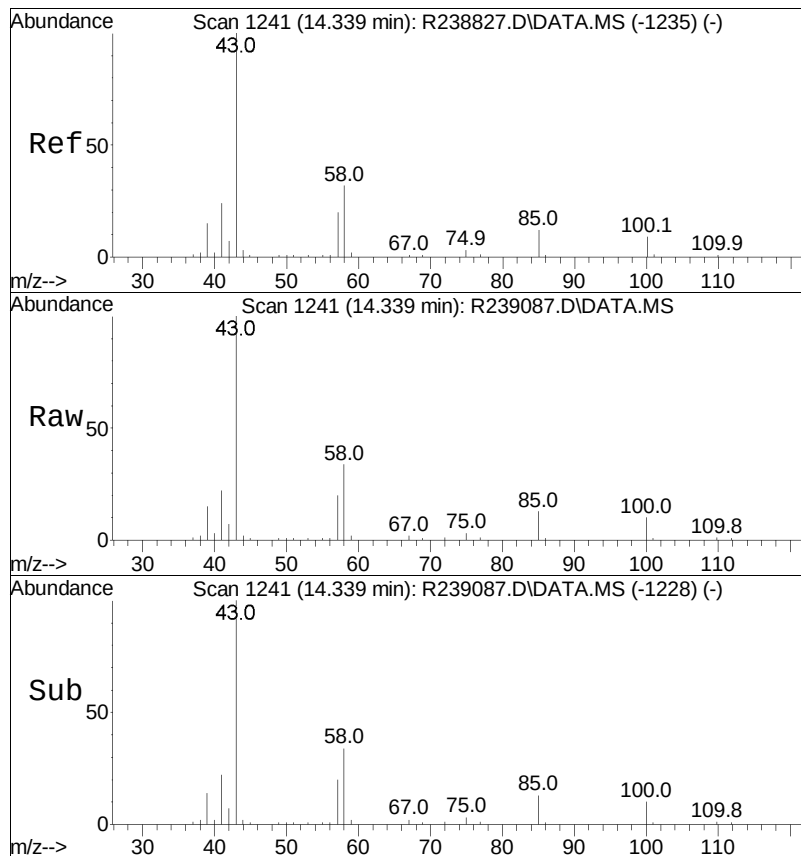




#63
 cis-1,3-dichloropropene
 Concen: 9.07 ppbV
 RT: 14.29 min Scan# 1238
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

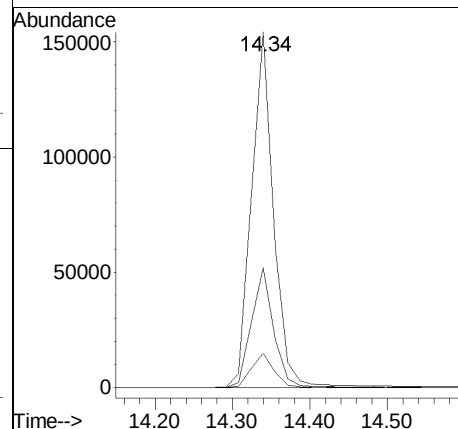
Tgt Ion	Ratio	Lower	Upper
75	100		
39	60.8	53.1	79.7
77	32.4	25.0	37.6

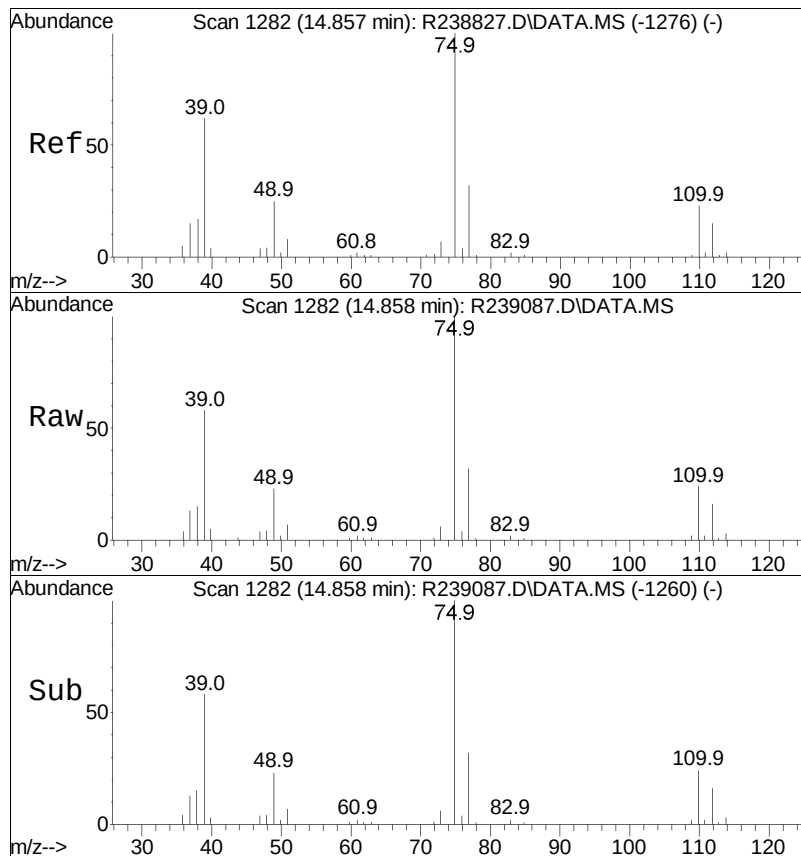




#64
 4-methyl-2-pentanone
 Concen: 8.02 ppbV
 RT: 14.34 min Scan# 1241
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

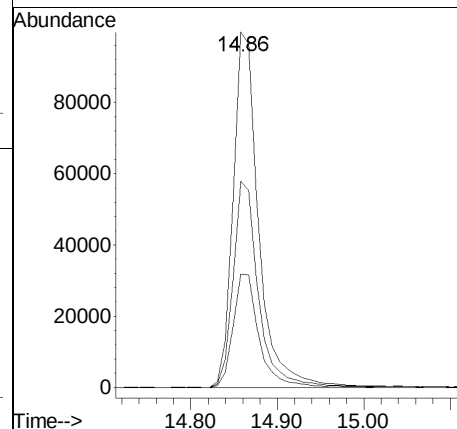
Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	25.8	38.8
100	9.6	7.1	10.7

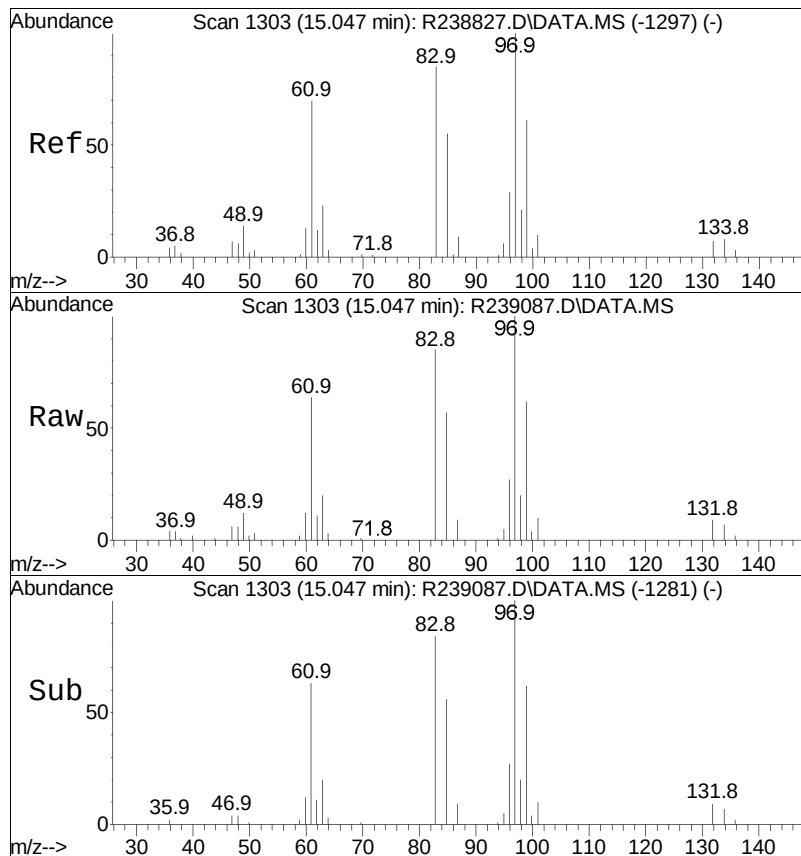




#65
 trans-1,3-dichloropropene
 Concen: 7.55 ppbV
 RT: 14.86 min Scan# 1282
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

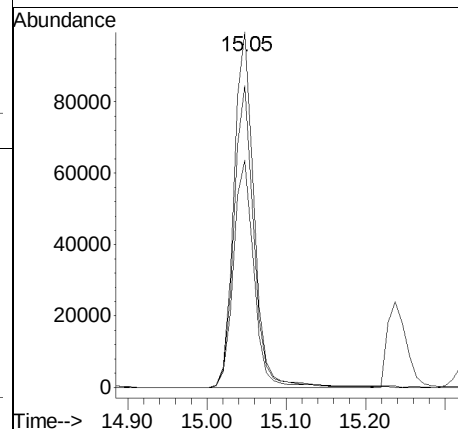
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.3	37.9
39	58.0	49.6	74.4

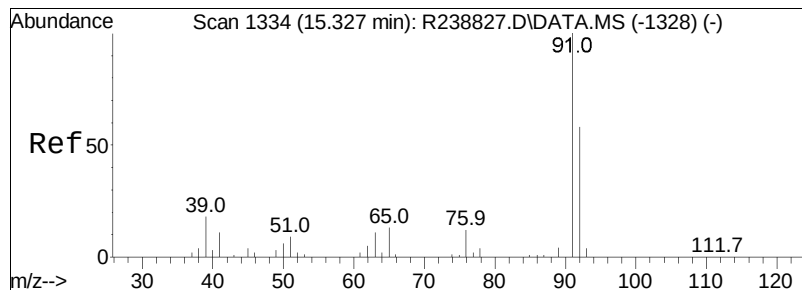




#66
 1,1,2-trichloroethane
 Concen: 8.91 ppbV
 RT: 15.05 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

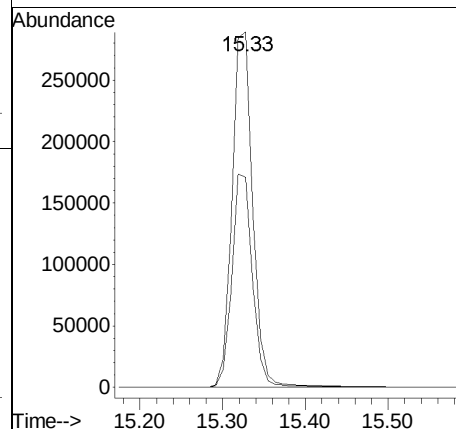
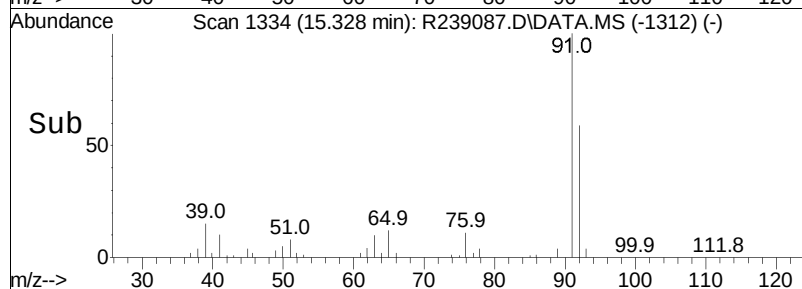
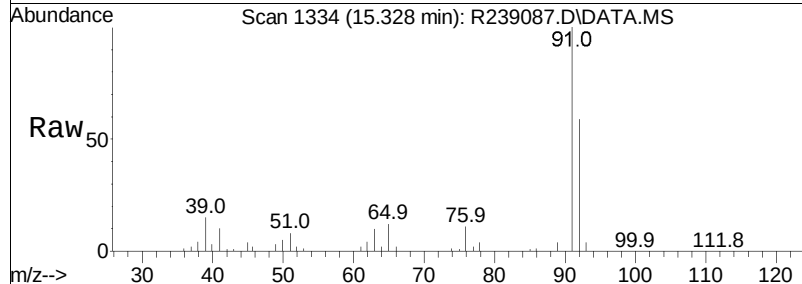
Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.9	68.2	102.4
61	63.9	55.9	83.9

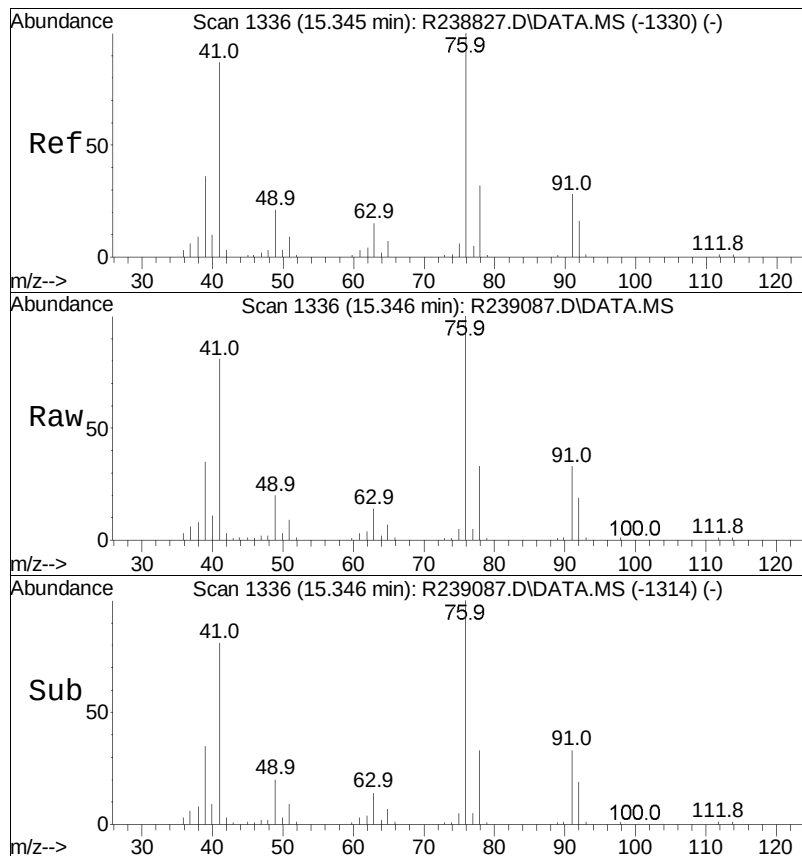




#68
toluene
Concen: 9.53 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

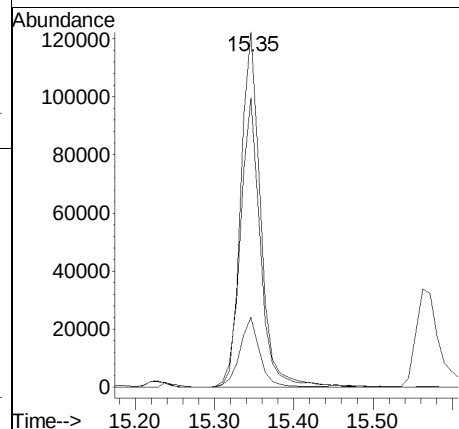
Tgt Ion: 91 Resp: 505976
Ion Ratio Lower Upper
91 100
92 59.1 46.7 70.1

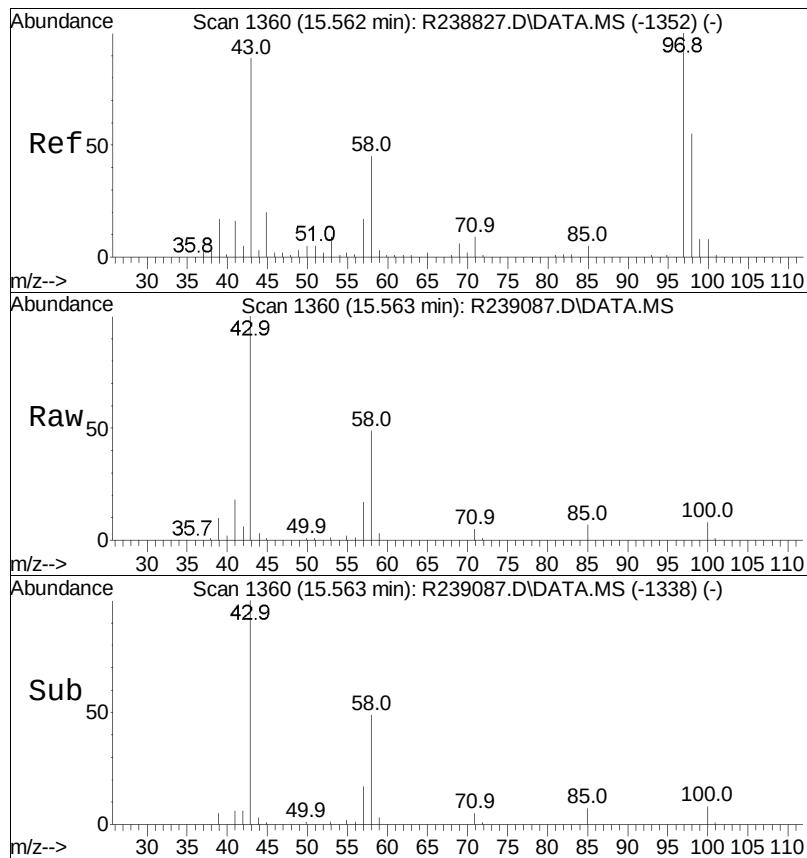




#71
 1,3-dichloropropane
 Concen: 9.05 ppbV
 RT: 15.35 min Scan# 1336
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

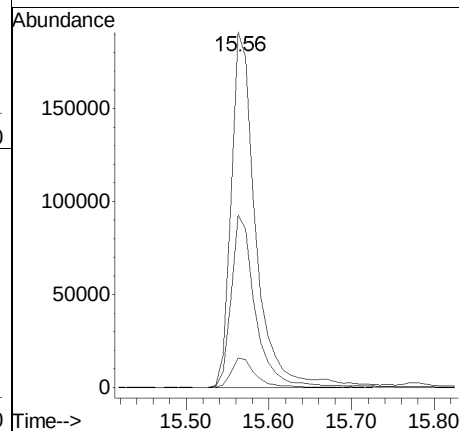
Tgt Ion	Ratio	Lower	Upper
76	100		
41	81.5	69.4	104.0
49	19.7	16.4	24.6

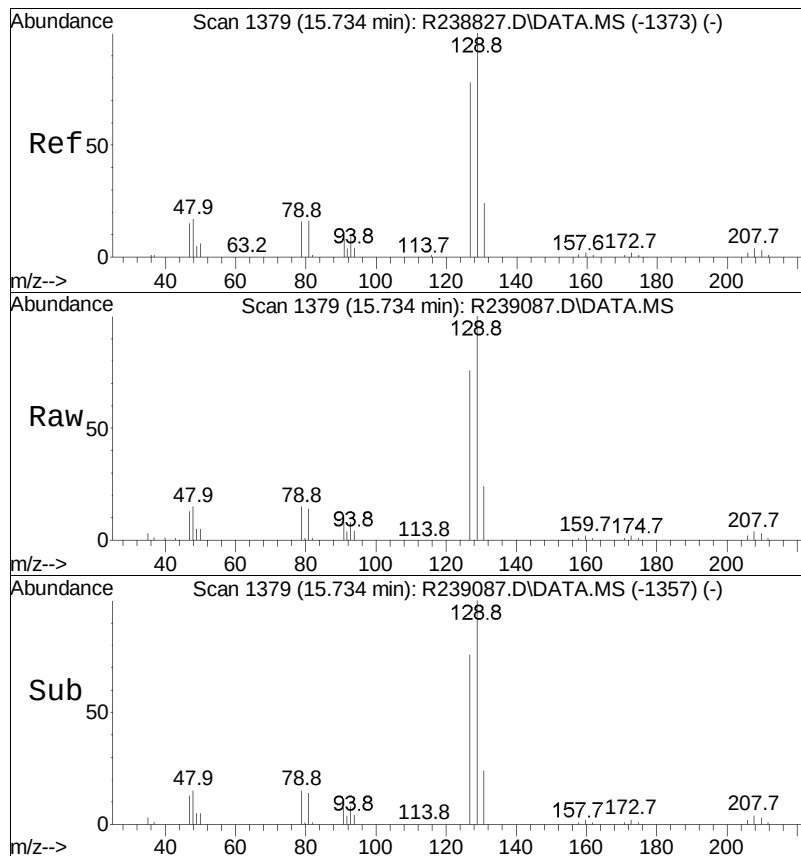




#72
 2-hexanone
 Concen: 9.68 ppbV
 RT: 15.56 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

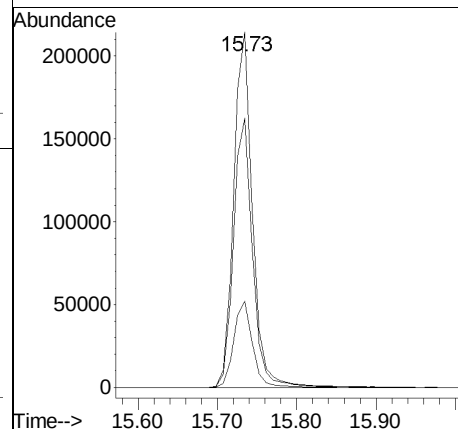
Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.5	40.2	60.2
100	8.3	7.3	10.9

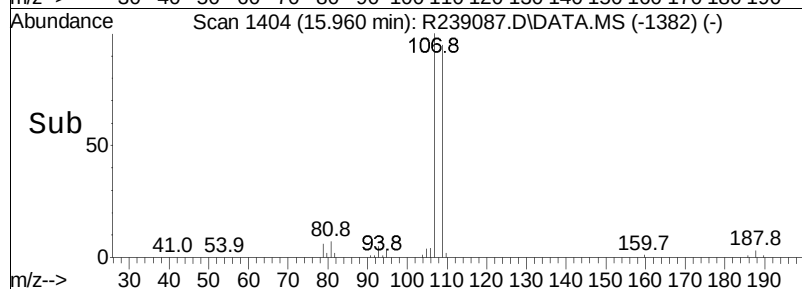
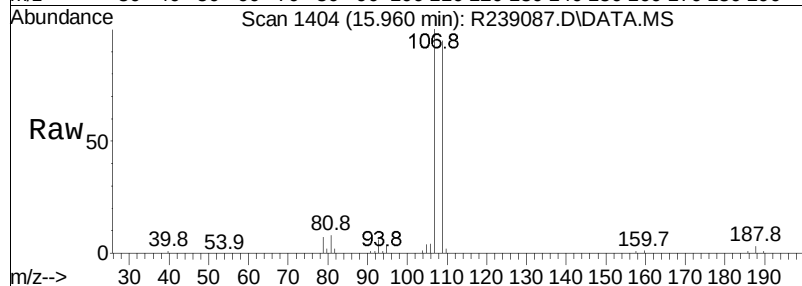
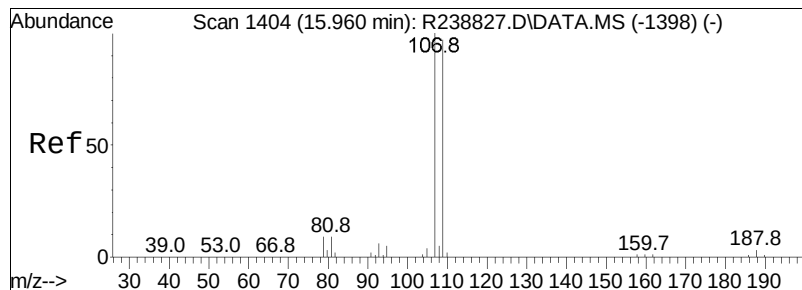




#74
 dibromochloromethane
 Concen: 10.27 ppbV
 RT: 15.73 min Scan# 1379
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

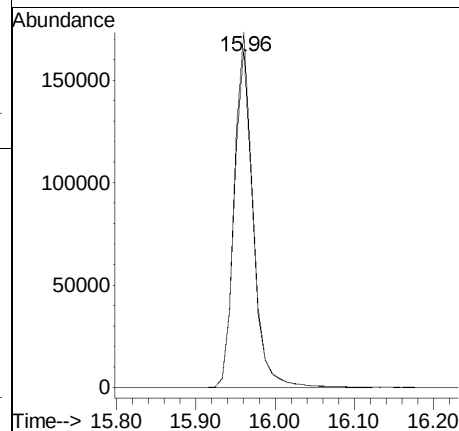
Tgt Ion:	129	Resp:	353460
Ion Ratio	Lower	Upper	
129	100		
127	75.7	62.5	93.7
131	24.2	19.0	28.6

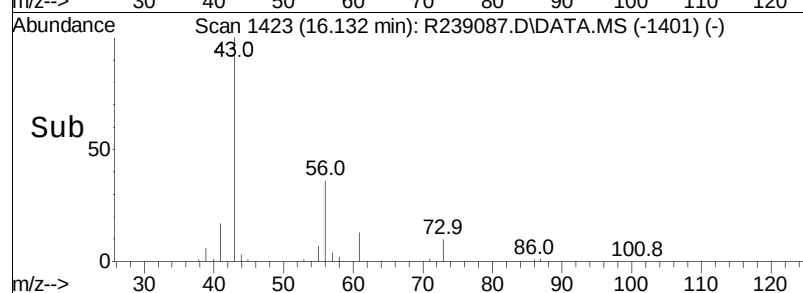
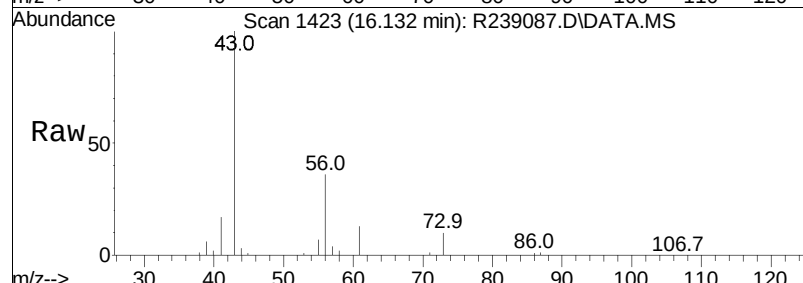
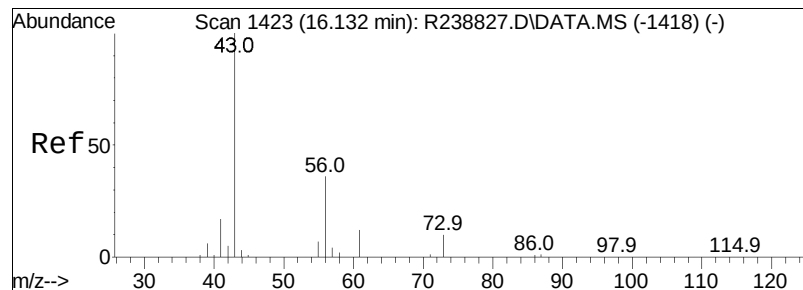




#75
 1,2-dibromoethane
 Concen: 10.21 ppbV
 RT: 15.96 min Scan# 1404
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

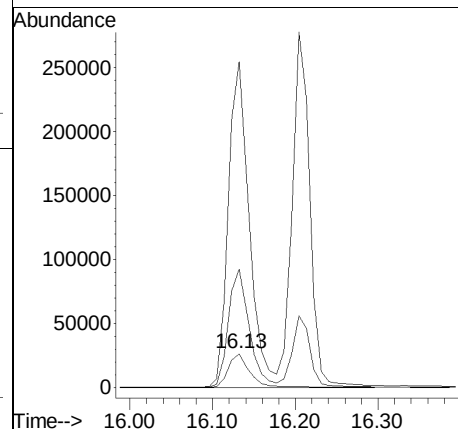
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	77.4	116.0

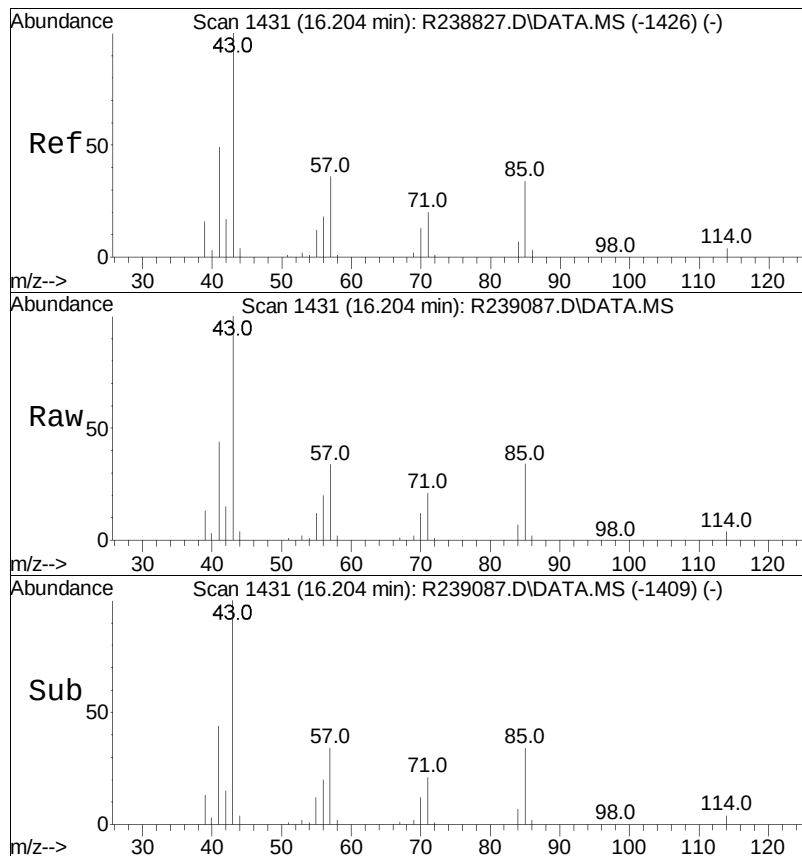




#76
butyl acetate
Concen: 8.70 ppbV
RT: 16.13 min Scan# 1423
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

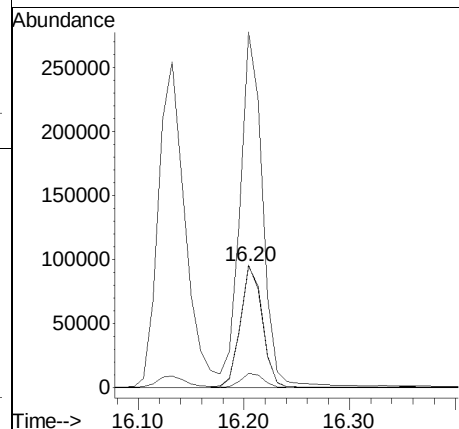
Tgt	Ion	Resp	Lower	Upper
73	100			
56	352.7	287.4	431.0	
43	971.9	808.2	1212.4	

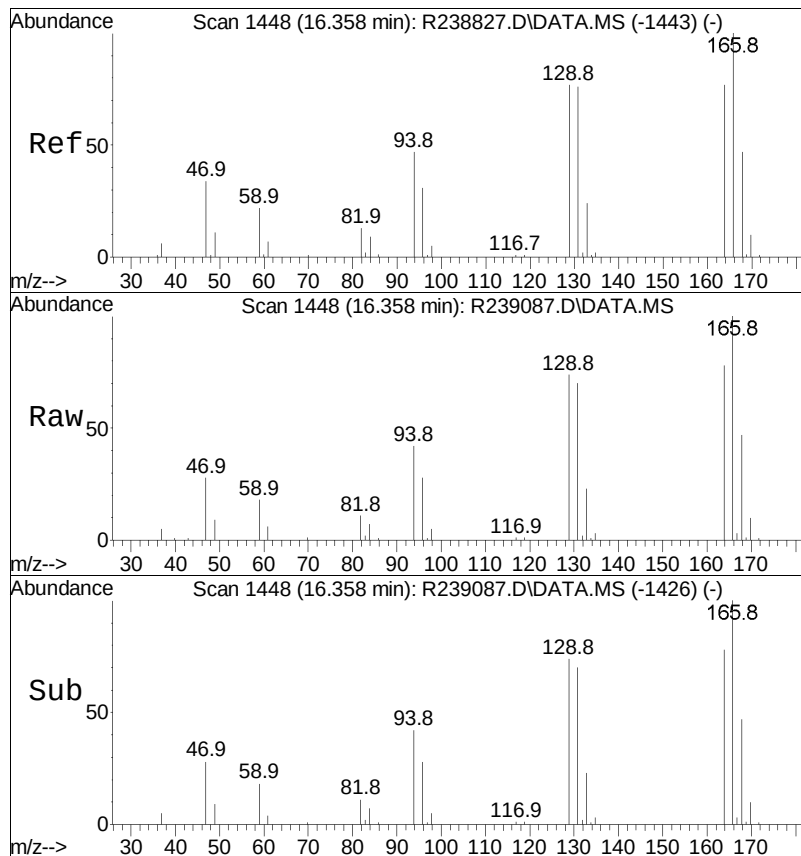




#77
 octane
 Concen: 8.89 ppbV
 RT: 16.20 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

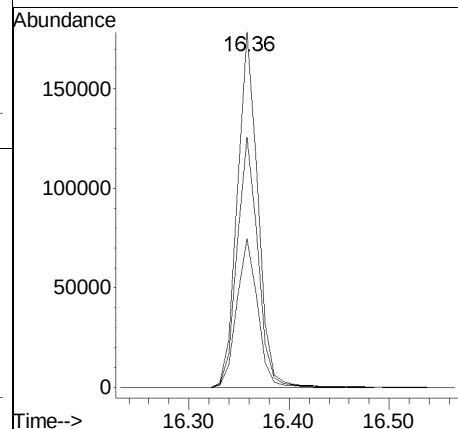
Tgt Ion:	85	Resp:	138019
Ion Ratio	Lower	Upper	
85	100		
57	101.2	83.8	125.6
114	11.6	9.1	13.7
43	293.6	252.9	379.3

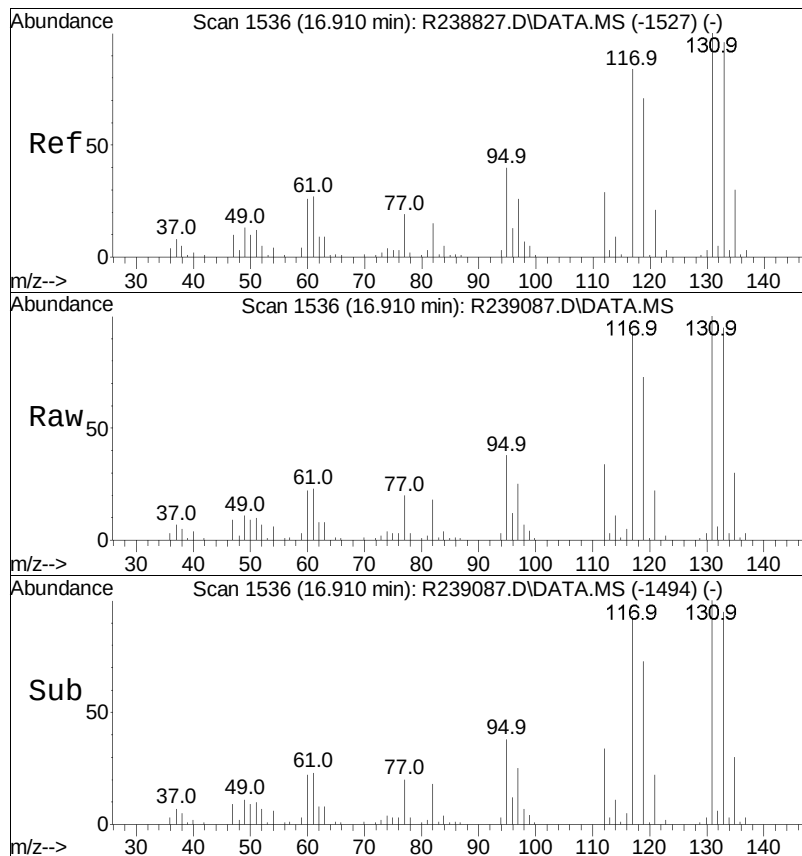




#78
 tetrachloroethene
 Concen: 10.64 ppbV
 RT: 16.36 min Scan# 1448
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

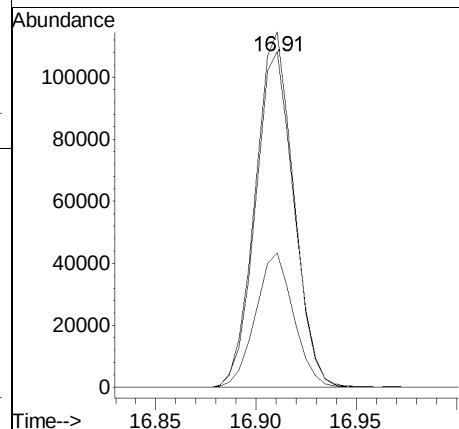
Tgt Ion	Ratio	Lower	Upper
166	100		
131	70.4	60.6	91.0
94	41.8	37.9	56.9

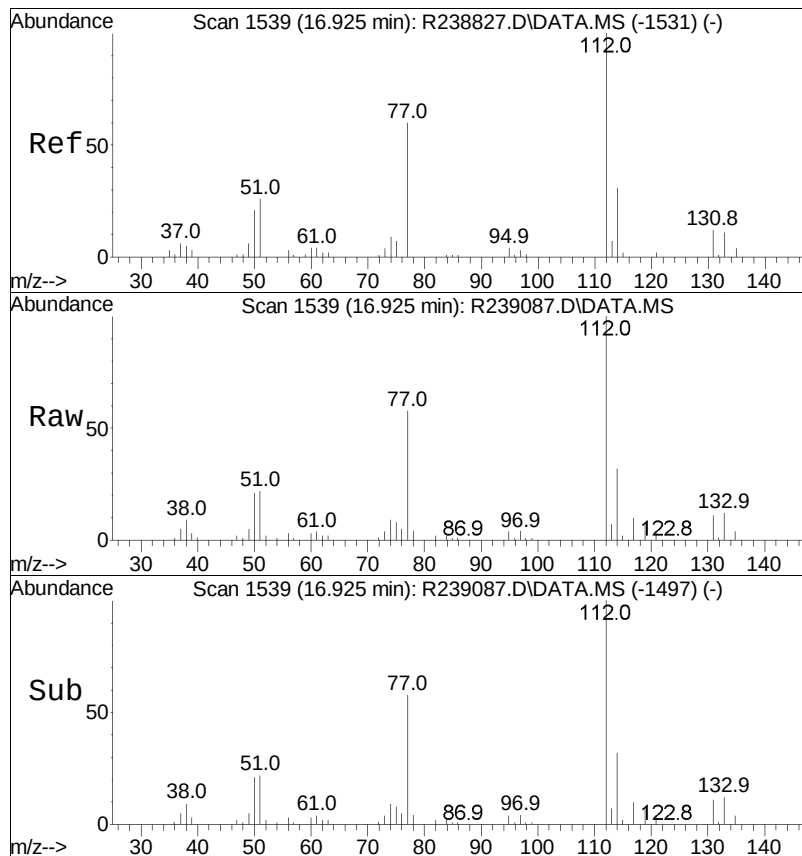




#79
 1,1,1,2-tetrachloroethane
 Concen: 9.62 ppbV
 RT: 16.91 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

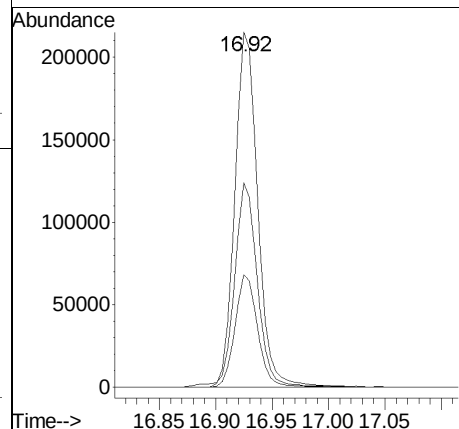
Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	76.9	115.3
95	37.8	31.9	47.9

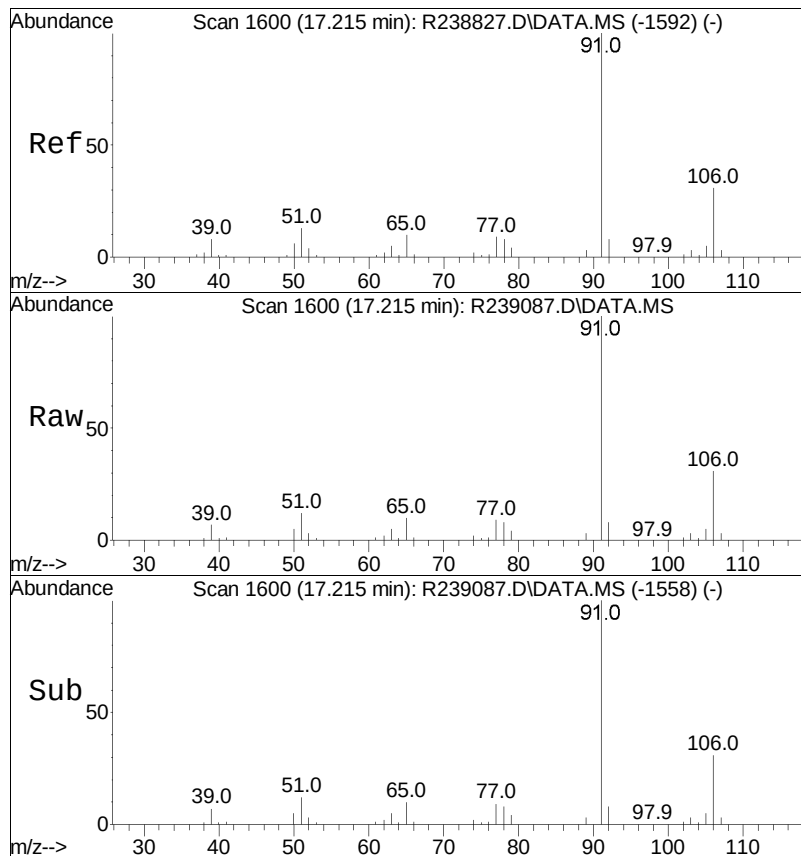




#80
chlorobenzene
Concen: 10.43 ppbV
RT: 16.92 min Scan# 1539
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

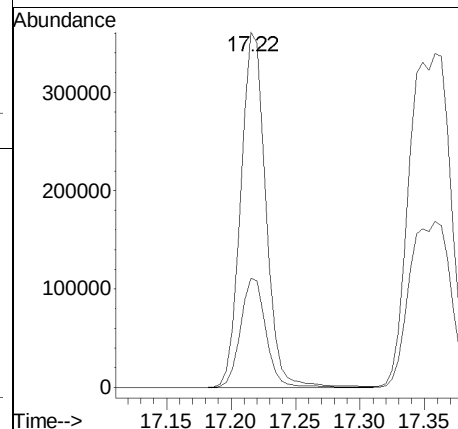
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.0	37.6
77	57.6	48.6	73.0

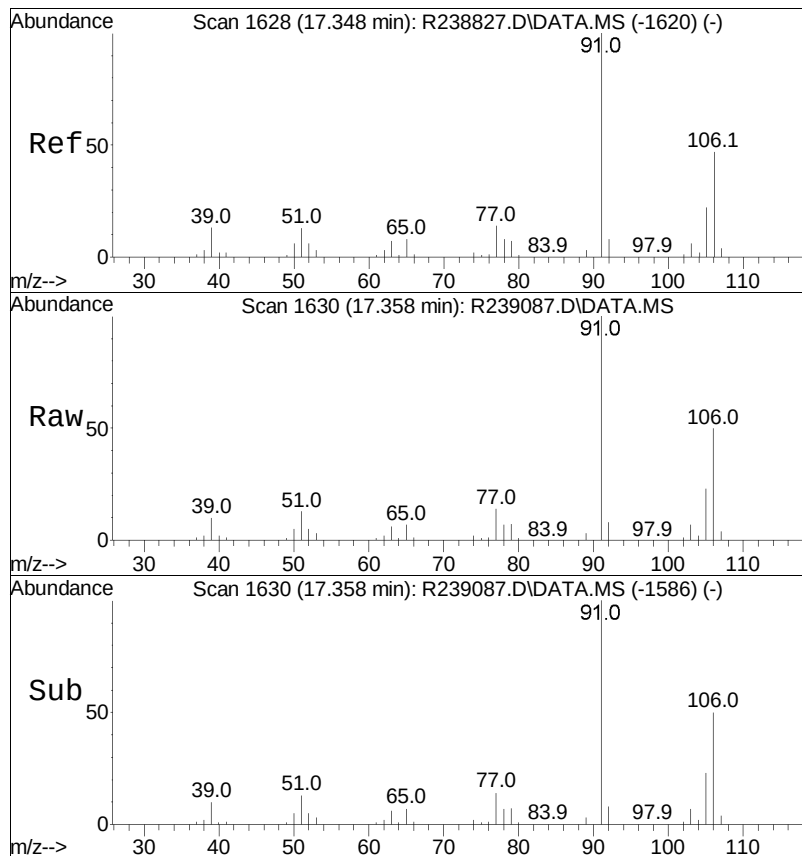




#81
 ethylbenzene
 Concen: 10.21 ppbV
 RT: 17.22 min Scan# 1600
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

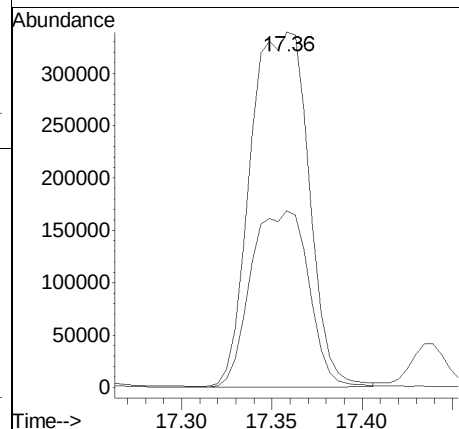
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.5	36.7

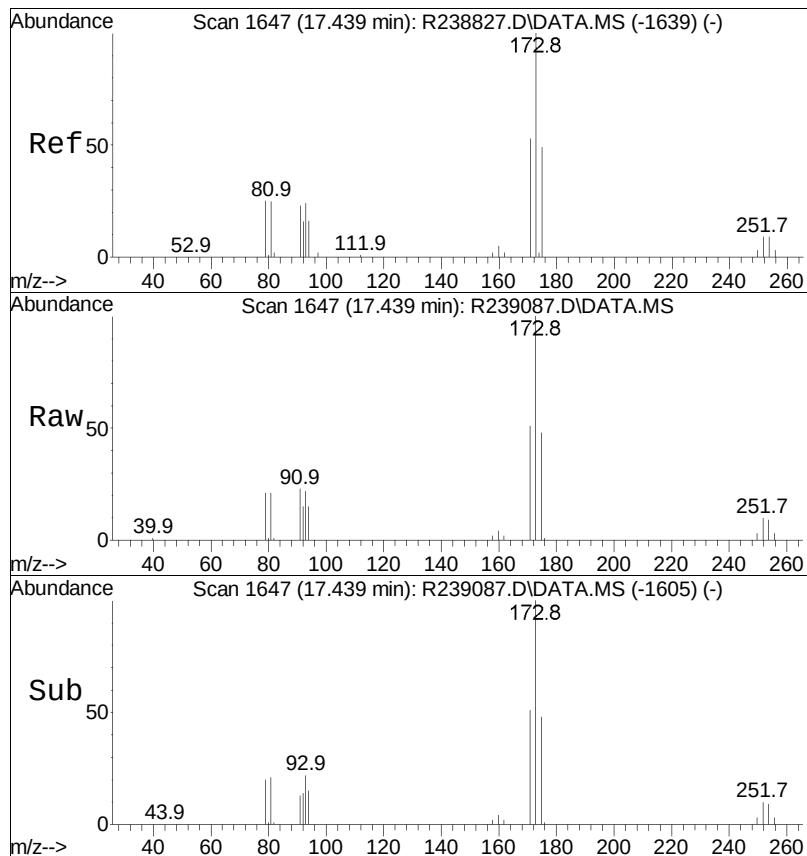




#83
 m+p-xylene
 Concen: 20.47 ppbV
 RT: 17.36 min Scan# 1630
 Delta R.T. 0.010 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

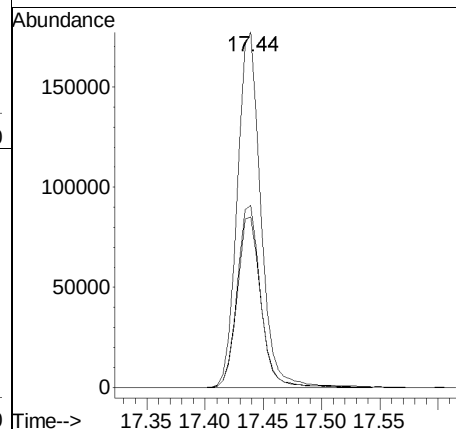
Tgt	Ion	Ratio	Lower	Upper
91	100			
106	49.7	37.7	56.5	

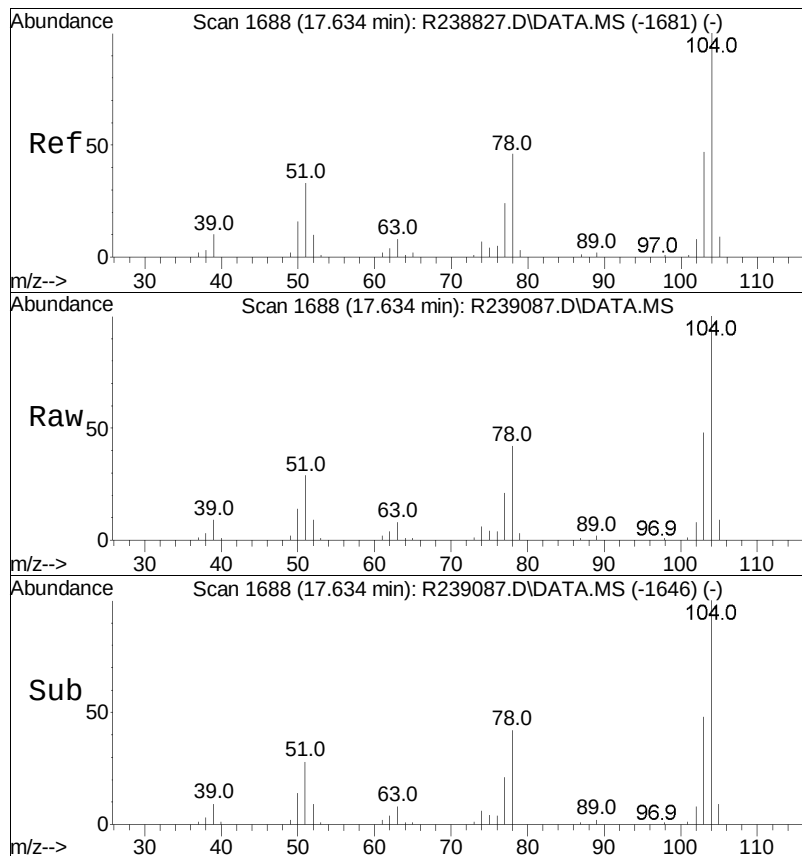




#84
bromoform
Concen: 11.03 ppbV
RT: 17.44 min Scan# 1647
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

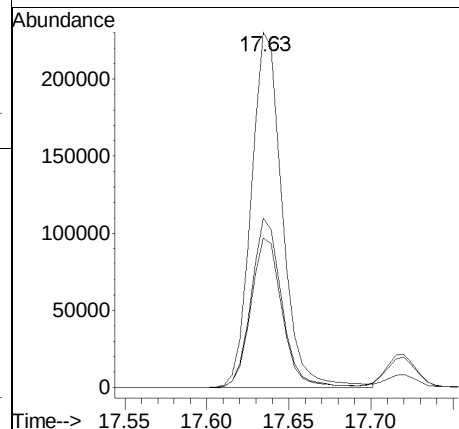
Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.9	39.1	58.7
171	51.2	42.1	63.1

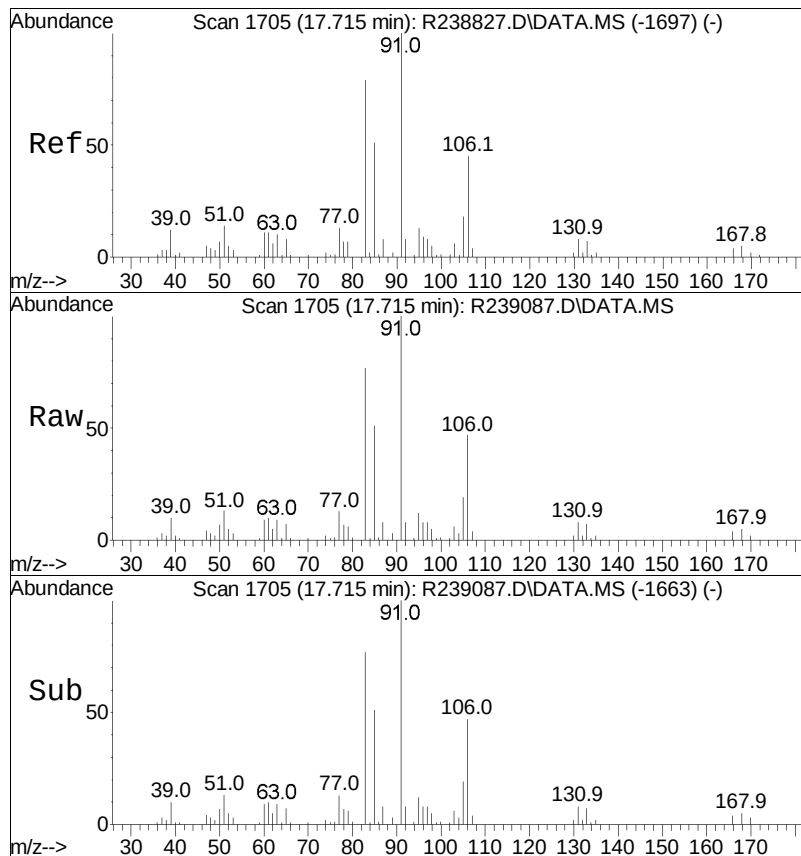




#85
styrene
Concen: 10.58 ppbV
RT: 17.63 min Scan# 1688
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

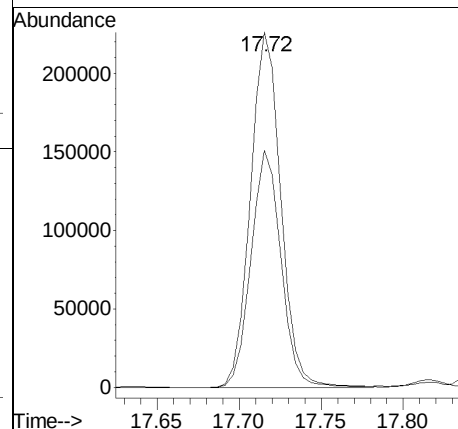
Tgt	Ion	Ratio	Resp	Lower	Upper
104	104	100	302374		
103	103	47.6		37.6	56.4
78	78	42.0		36.7	55.1

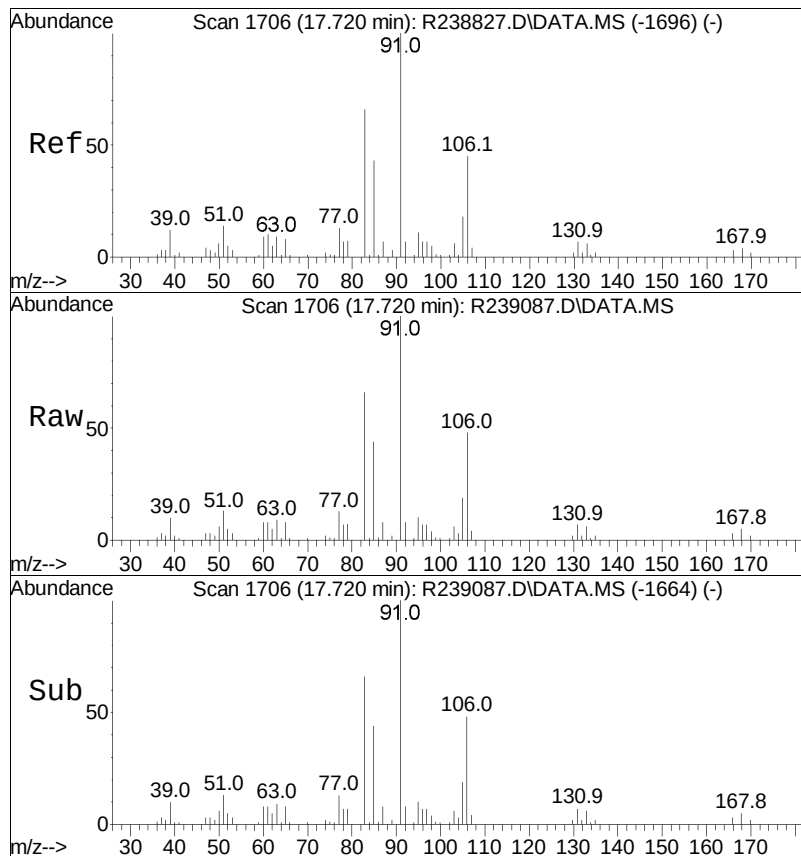




#86
 1,1,2,2-tetrachloroethane
 Concen: 10.46 ppbV
 RT: 17.72 min Scan# 1705
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

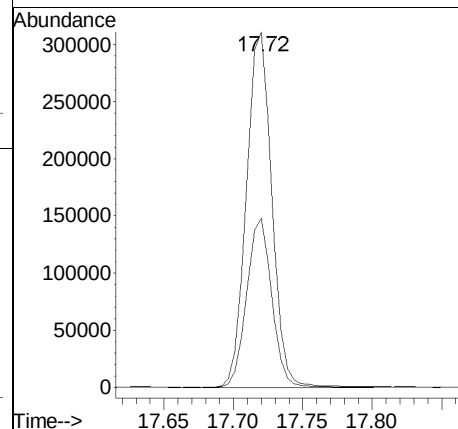
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	51.5	77.3

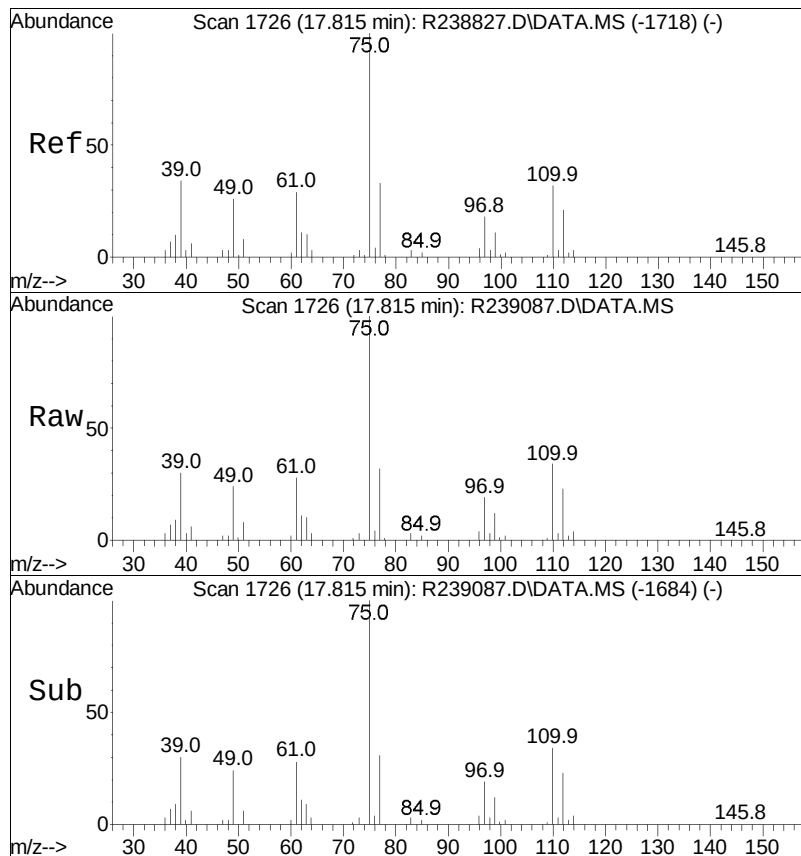




#87
 o-xylene
 Concen: 10.45 ppbV
 RT: 17.72 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

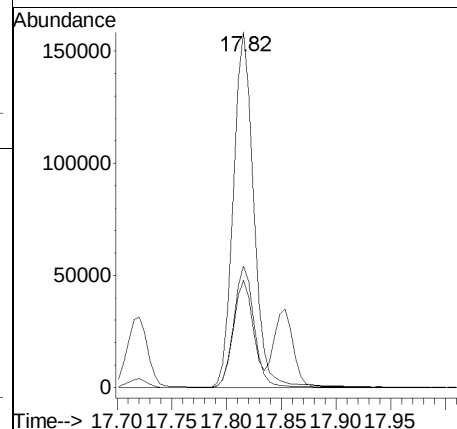
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.6	35.8	53.6

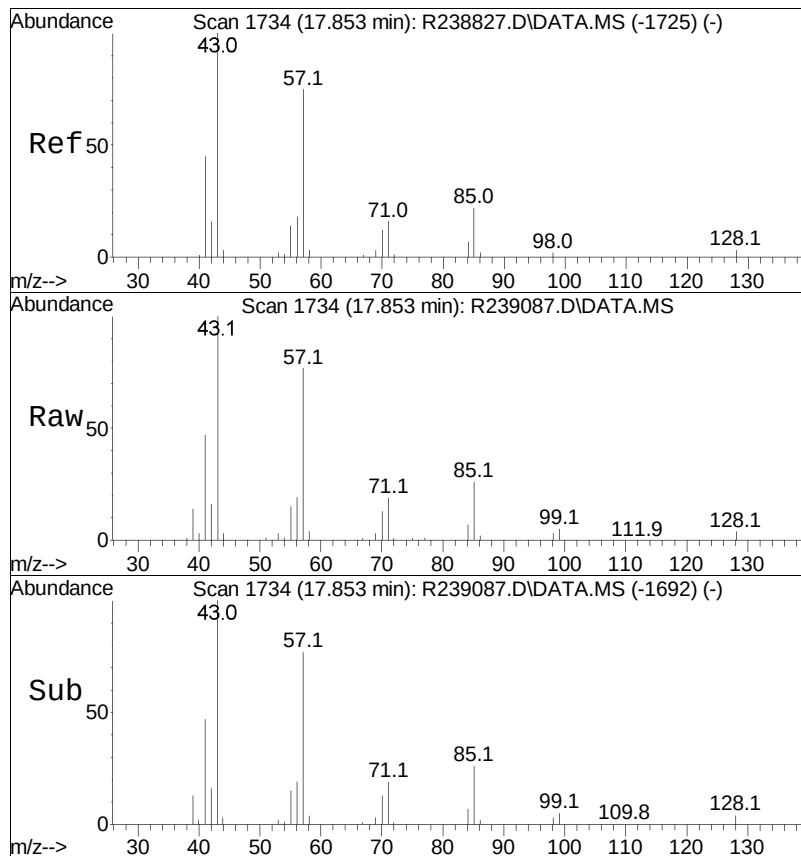




#88
 1,2,3-trichloropropane
 Concen: 9.05 ppbV
 RT: 17.82 min Scan# 1726
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

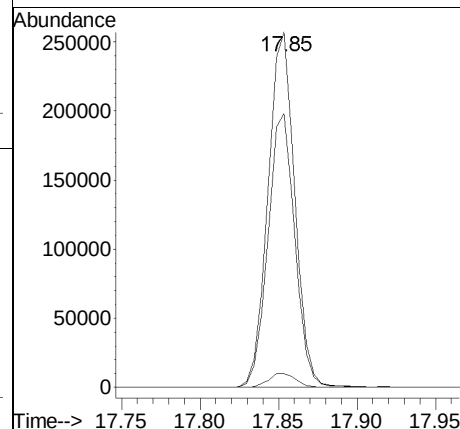
Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.2	25.8	38.6
39	30.2	27.0	40.4

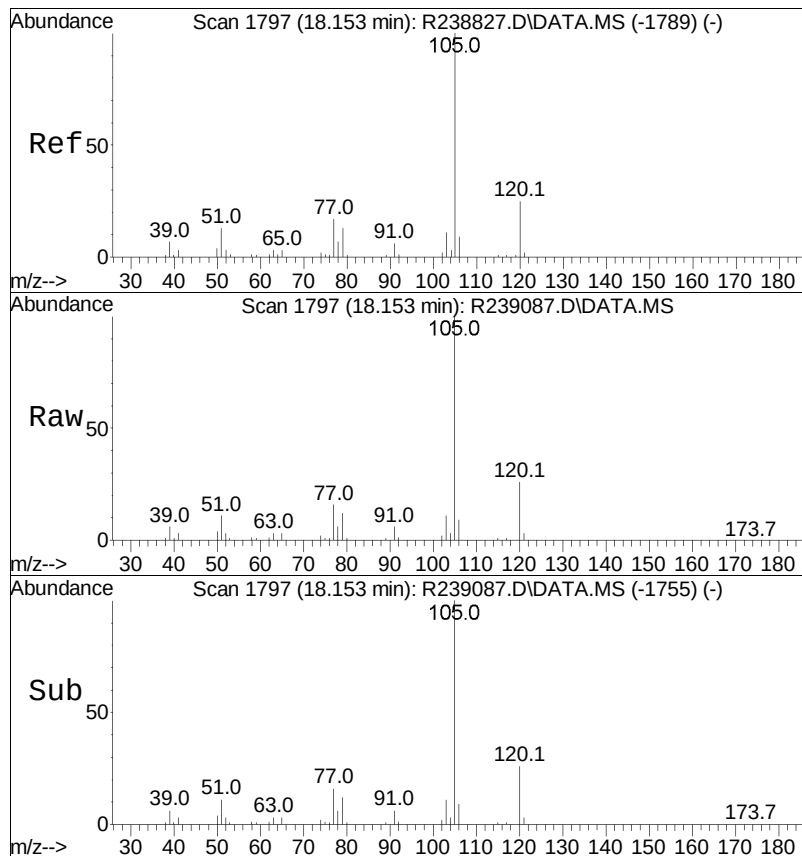




#89
 nonane
 Concen: 8.37 ppbV
 RT: 17.85 min Scan# 1734
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

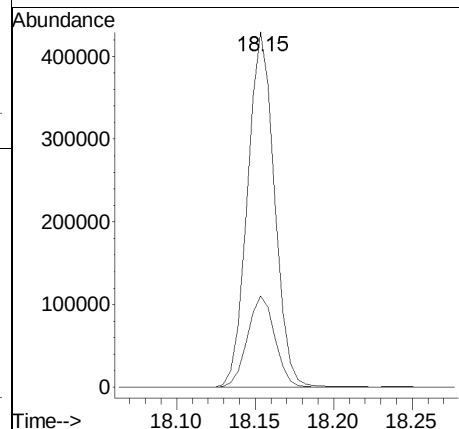
Tgt Ion:	43	57	128	Ion Ratio	43	57	128	Resp:	304746	Lower	Upper
	100	77.1	3.9								
		59.8	2.6								
			3.8								

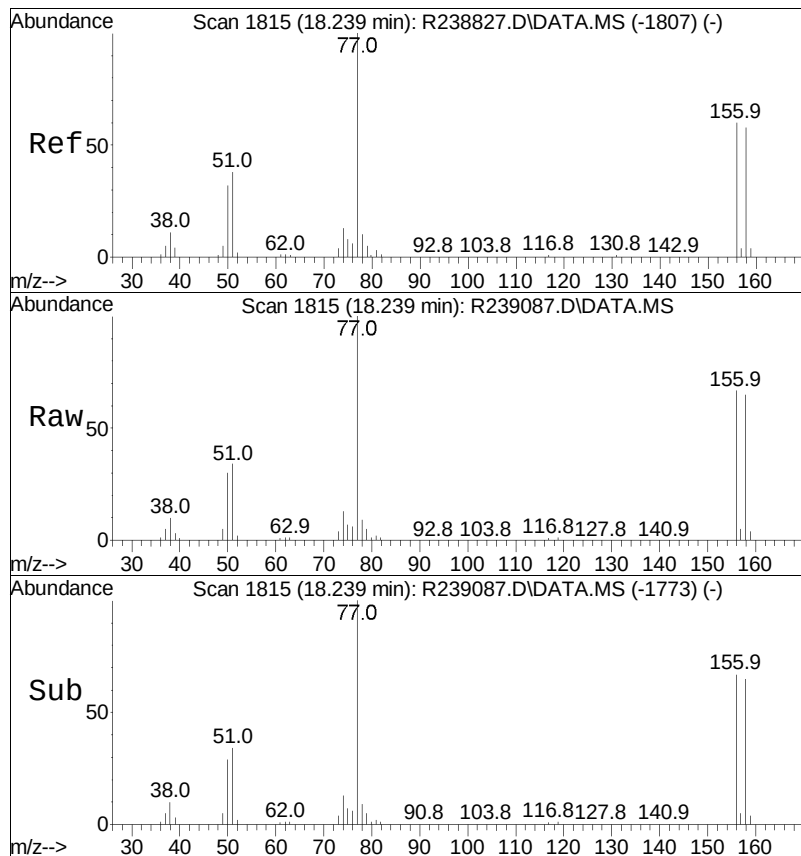




#91
isopropylbenzene
Concen: 9.86 ppbV
RT: 18.15 min Scan# 1797
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

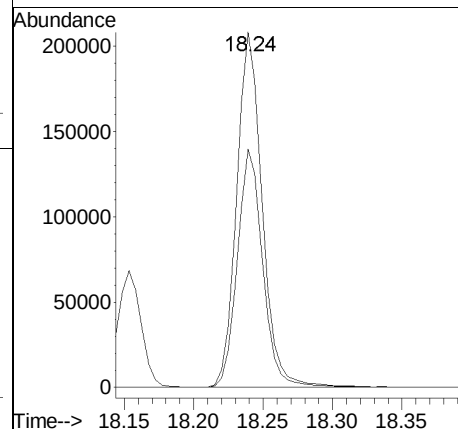
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.3	30.5

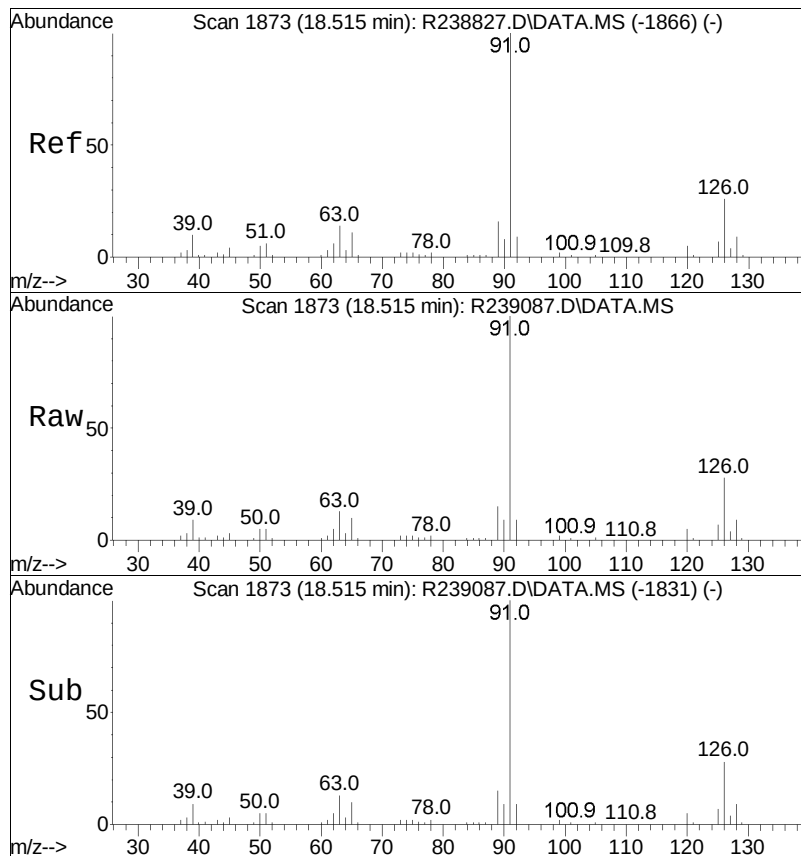




#92
 bromobenzene
 Concen: 9.20 ppbV
 RT: 18.24 min Scan# 1815
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

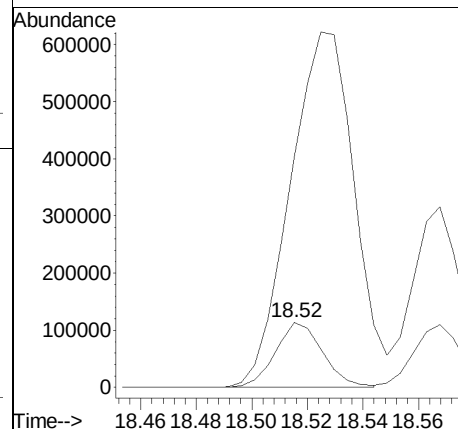
Tgt Ion	Ratio	Lower	Upper
77	100		
156	67.0	47.8	71.6

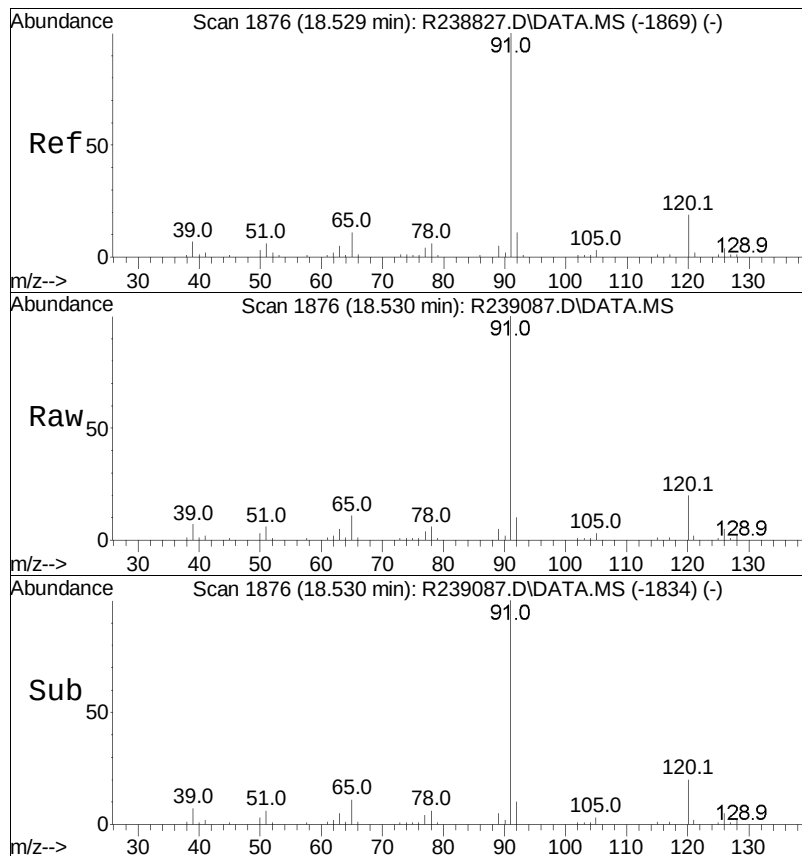




#93
 2-chlorotoluene
 Concen: 10.12 ppbV
 RT: 18.52 min Scan# 1873
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

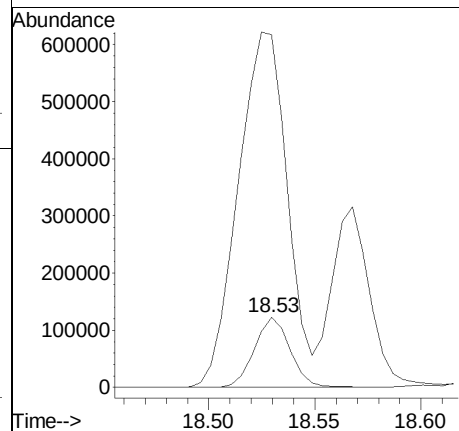
Tgt	Ion	Ratio	Lower	Upper
126	100			
91	355.5	306.6	459.8	

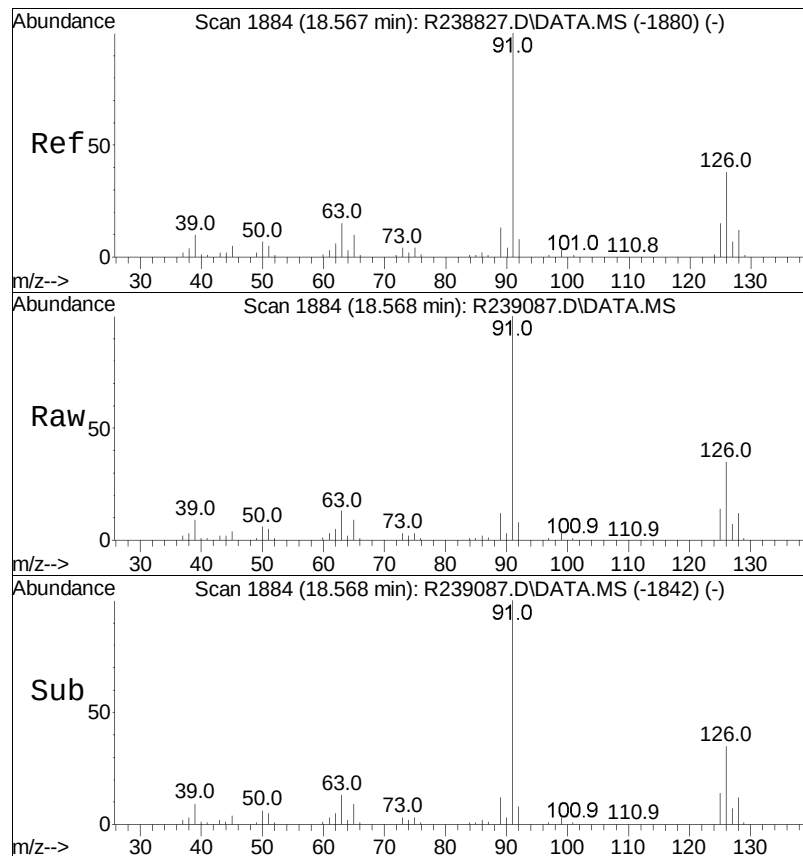




#94
 n-propylbenzene
 Concen: 9.97 ppbV
 RT: 18.53 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

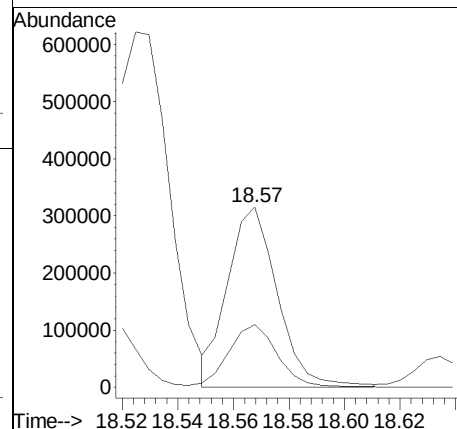
Tgt	Ion	Ratio	Lower	Upper
120	100			
91	503.1	423.4	635.2	

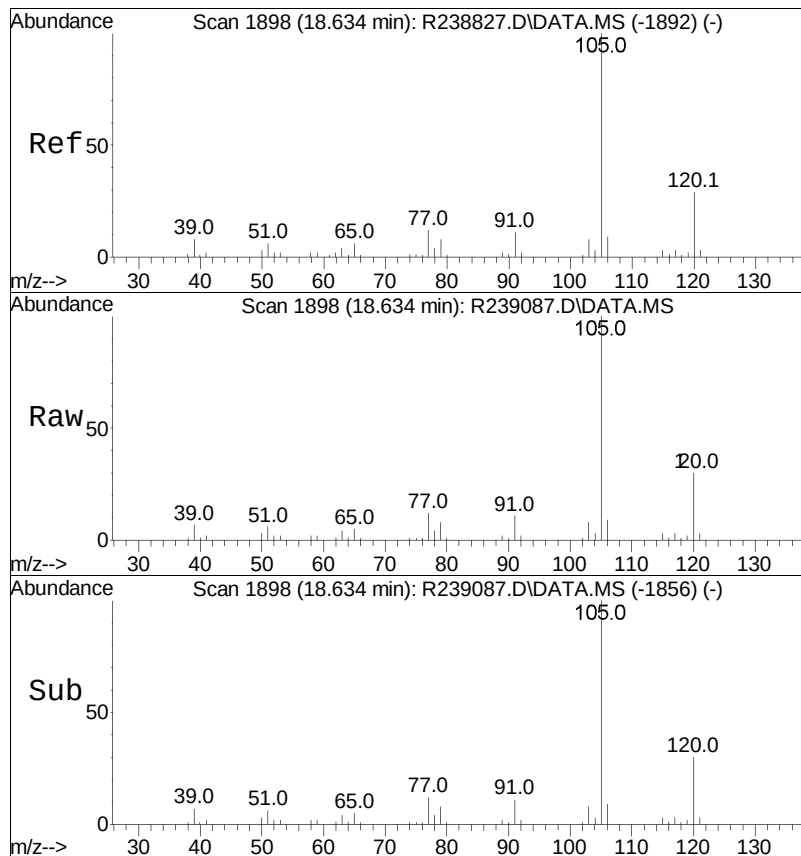




#95
 4-chlorotoluene
 Concen: 9.27 ppbV
 RT: 18.57 min Scan# 1884
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

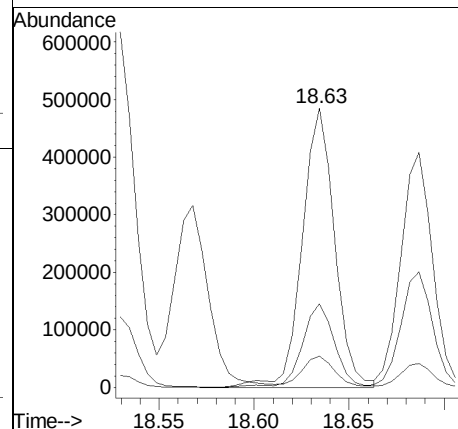
Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	26.6	40.0

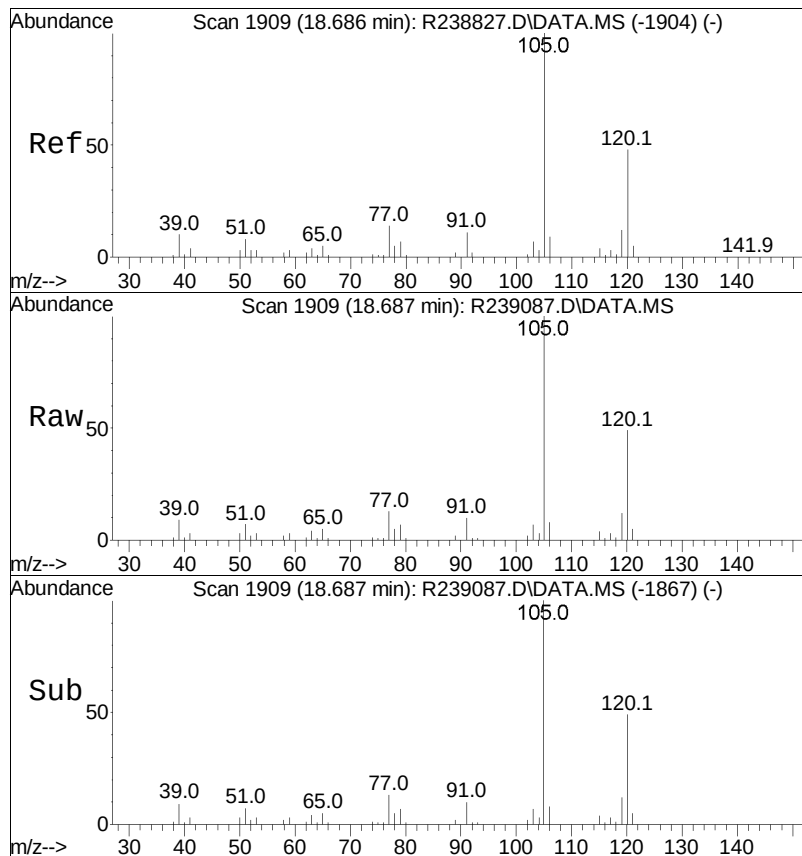




#96
 4-ethyl toluene
 Concen: 10.16 ppbV
 RT: 18.63 min Scan# 1898
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

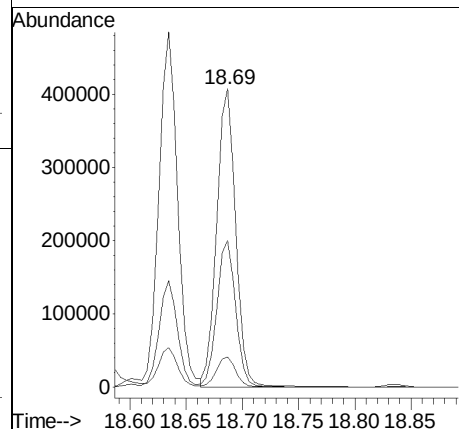
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.0	23.4	35.0
91	11.2	9.5	14.3

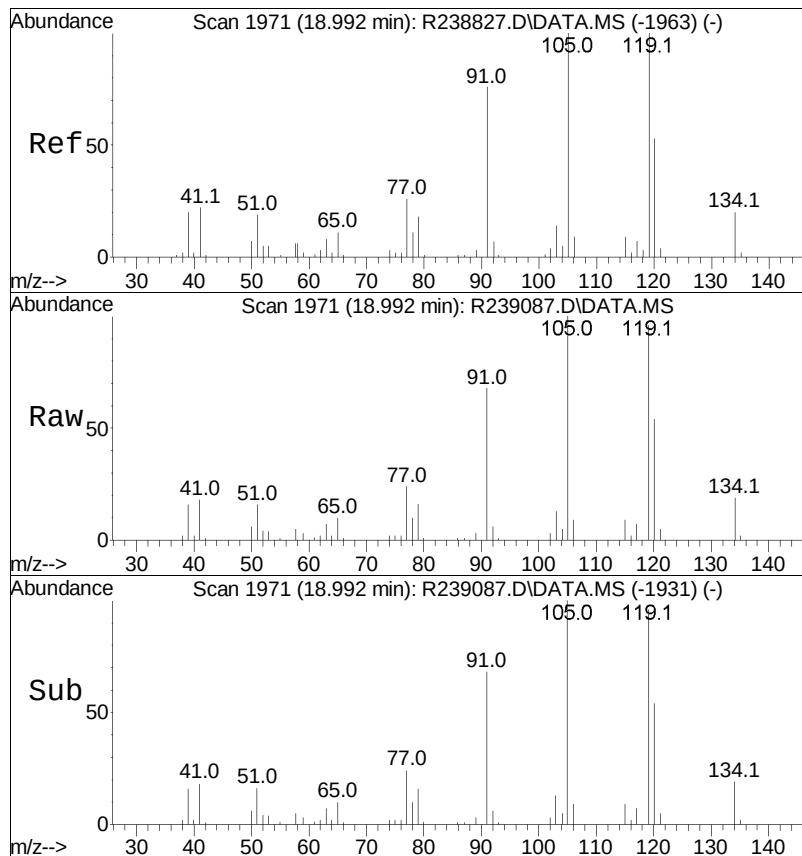




#97
 1,3,5-trimethylbenzene
 Concen: 10.94 ppbV
 RT: 18.69 min Scan# 1909
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

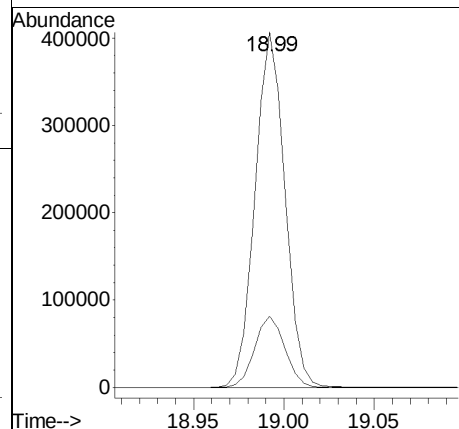
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.2	37.8	56.6
91	10.2	8.7	13.1

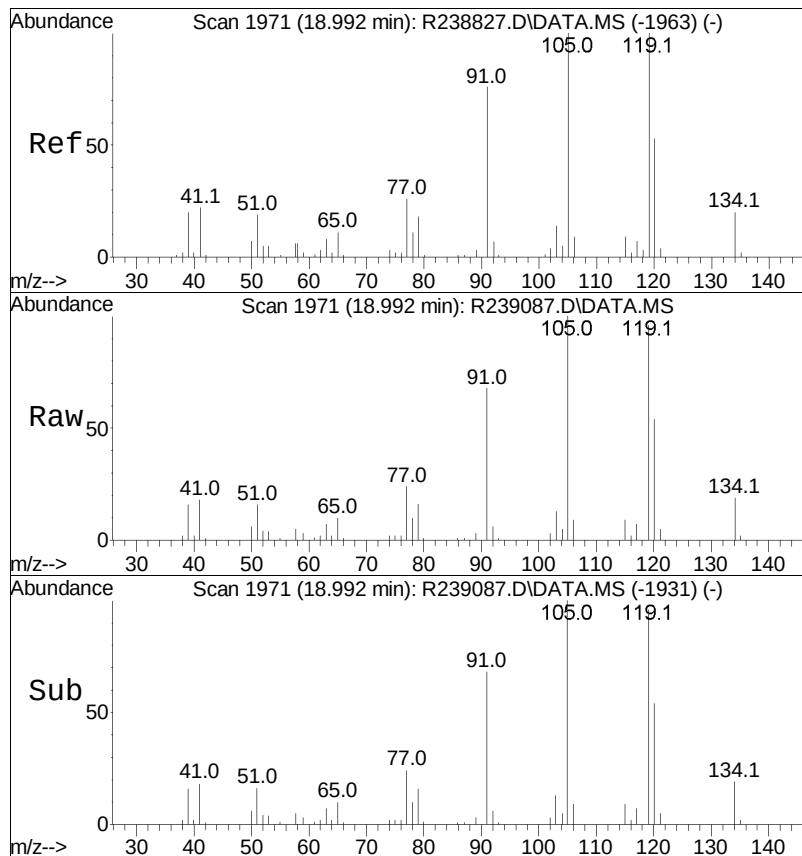




#98
 tert-butylbenzene
 Concen: 9.91 ppbV
 RT: 18.99 min Scan# 1971
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

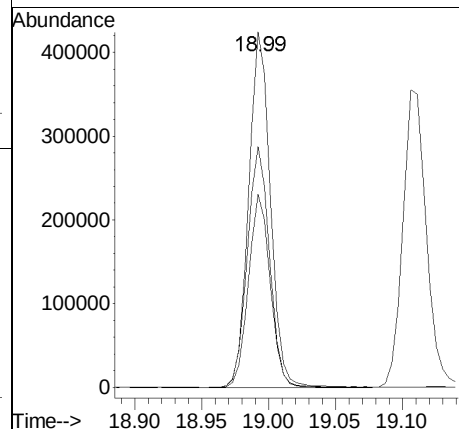
Tgt Ion	Ratio	Lower	Upper
119	100		
134	20.1	15.8	23.6

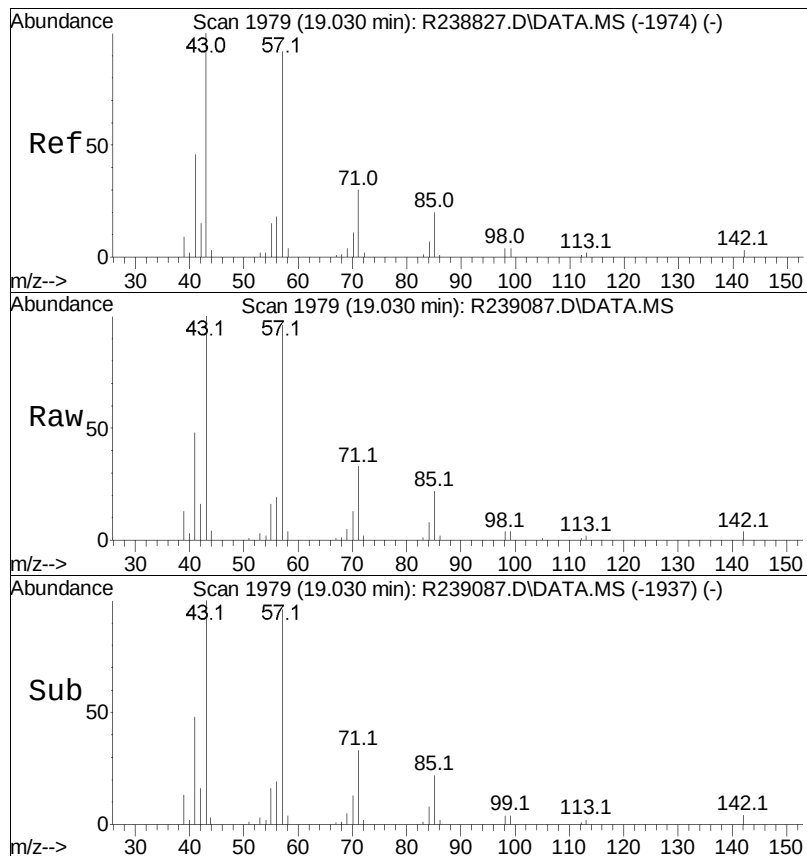




#99
 1,2,4-trimethylbenzene
 Concen: 10.83 ppbV
 RT: 18.99 min Scan# 1971
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

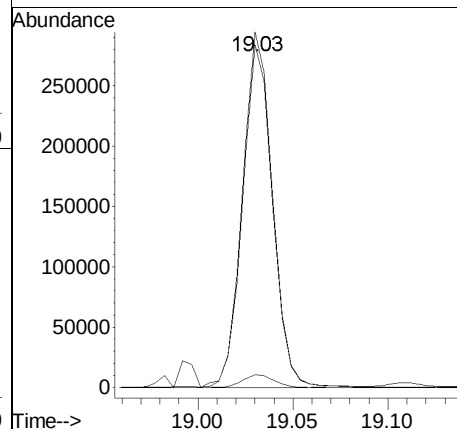
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.4	42.2	63.4
91	67.8	61.1	91.7

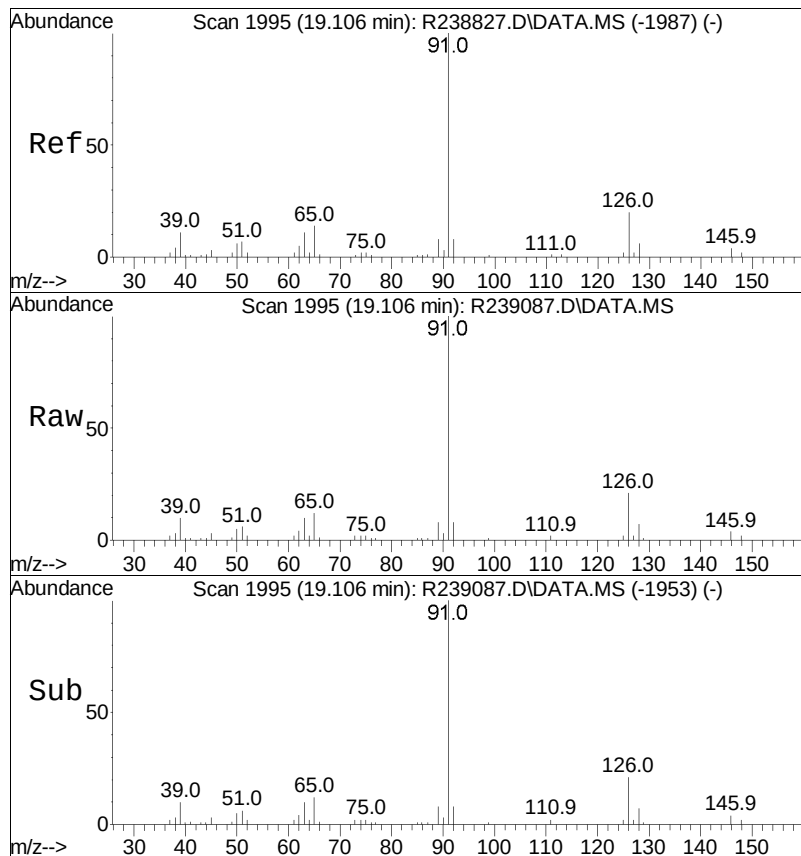




#100
decane
Concen: 9.10 ppbV
RT: 19.03 min Scan# 1979
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

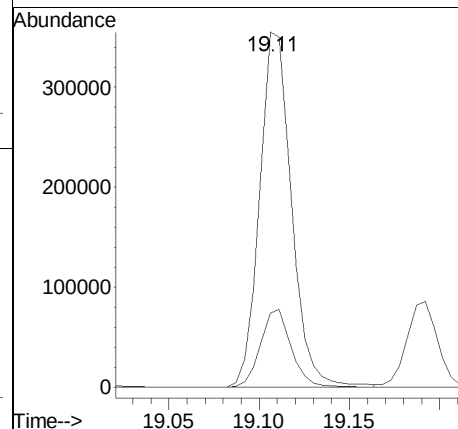
Tgt	Ion	Resp	Lower	Upper
57	100	311788		
43	103.7	87.7	131.5	
142	3.7	3.0	4.4	

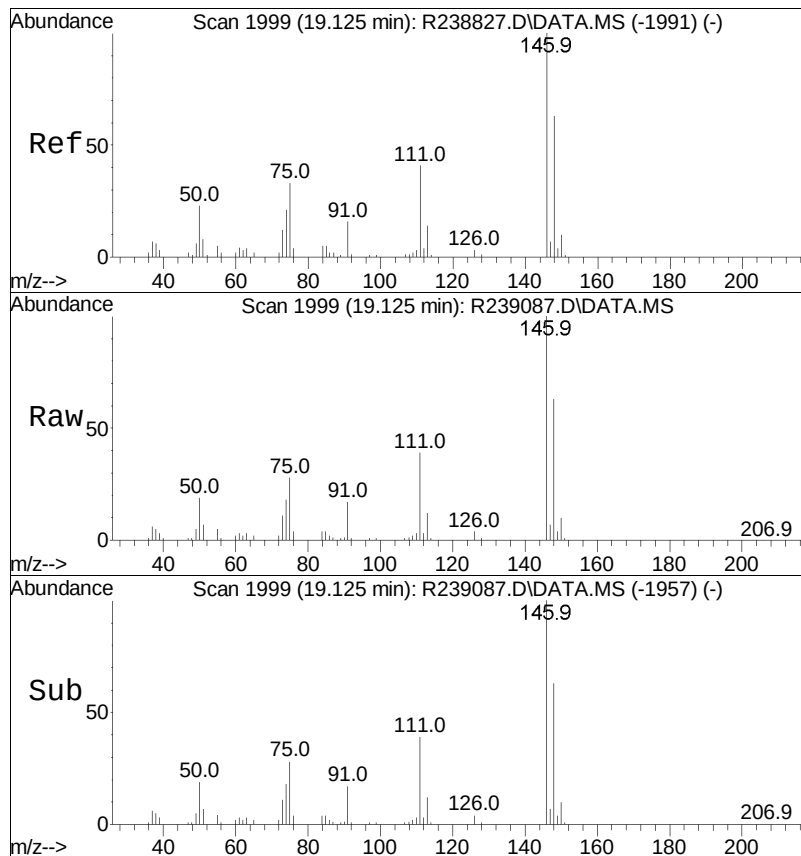




#101
 Benzyl Chloride
 Concen: 10.36 ppbV
 RT: 19.11 min Scan# 1995
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

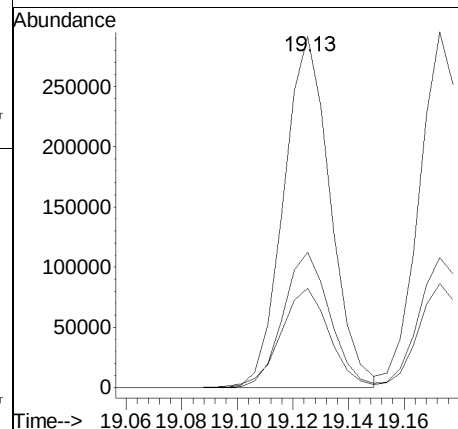
Tgt Ion	Ratio	Lower	Upper
91	100		
126	20.9	15.7	23.5

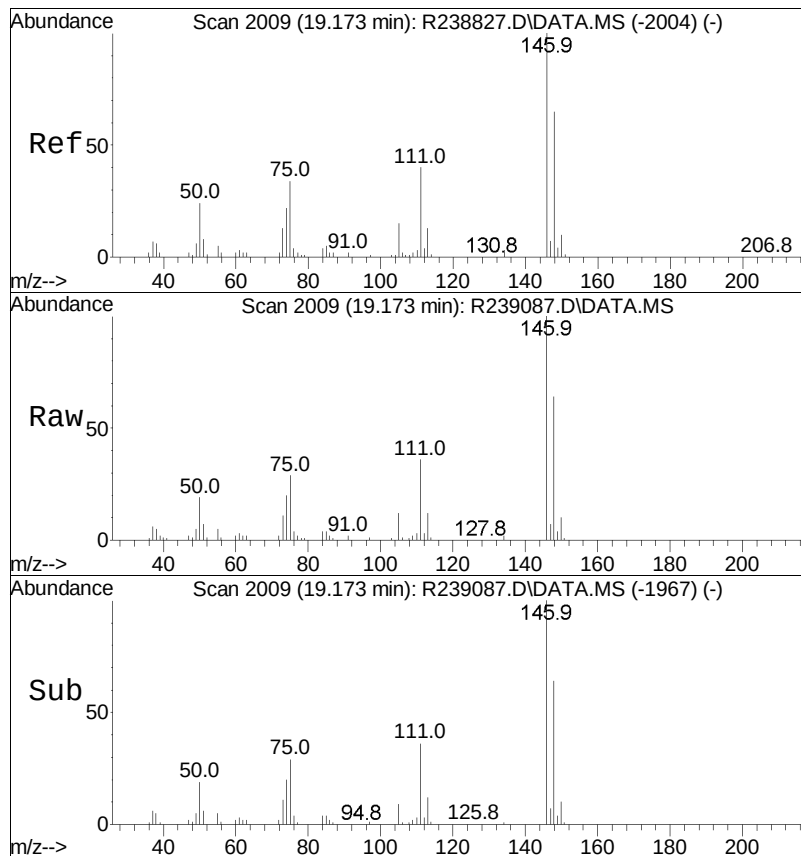




#102
 1,3-dichlorobenzene
 Concen: 11.21 ppbV
 RT: 19.13 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

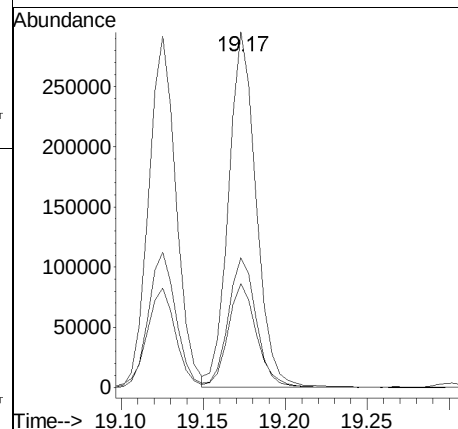
Tgt Ion:	146	Resp:	338923
Ion Ratio	Lower	Upper	
146	100		
111	38.5	32.6	49.0
75	28.3	26.0	39.0

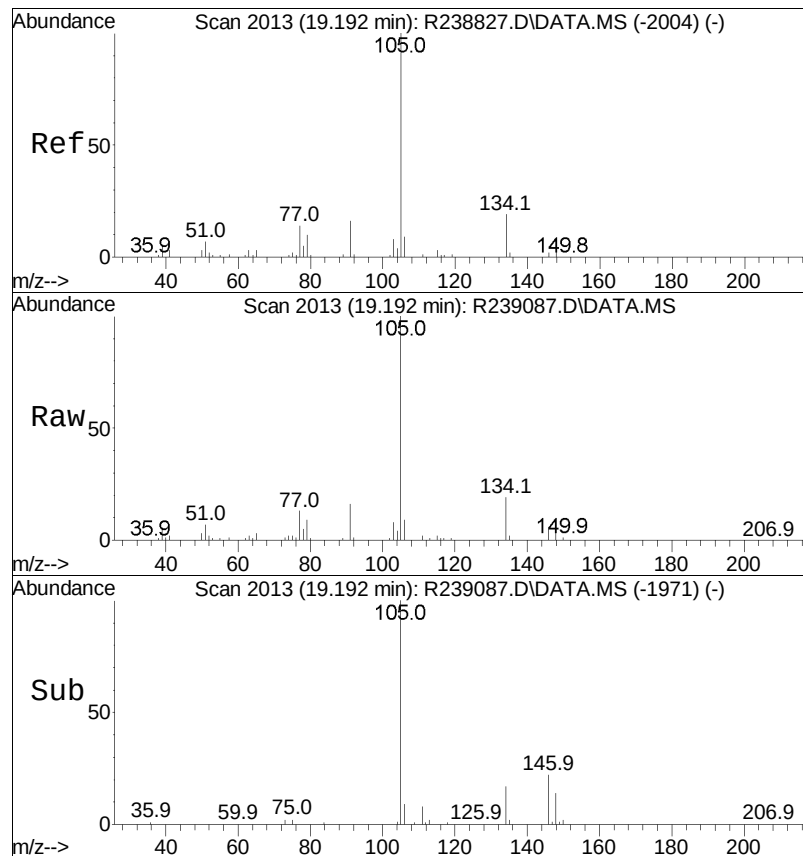




#103
 1,4-dichlorobenzene
 Concen: 11.04 ppbV
 RT: 19.17 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

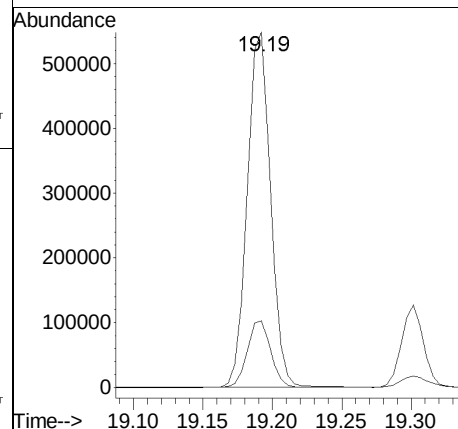
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	32.2	48.4
75	29.2	27.2	40.8

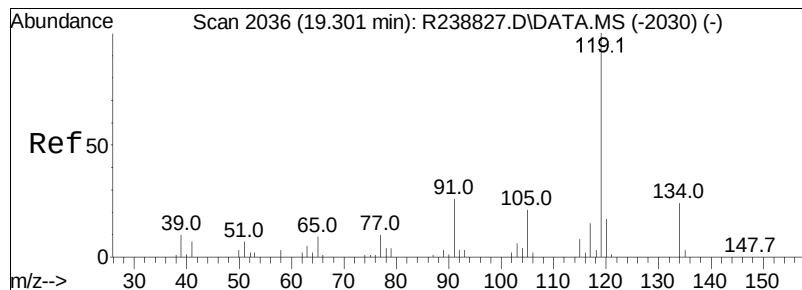




#104
 sec-butylbenzene
 Concen: 9.73 ppbV
 RT: 19.19 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

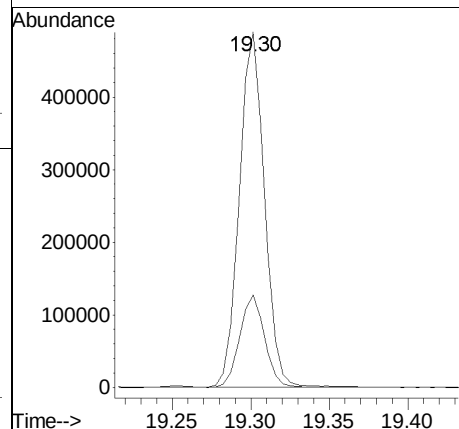
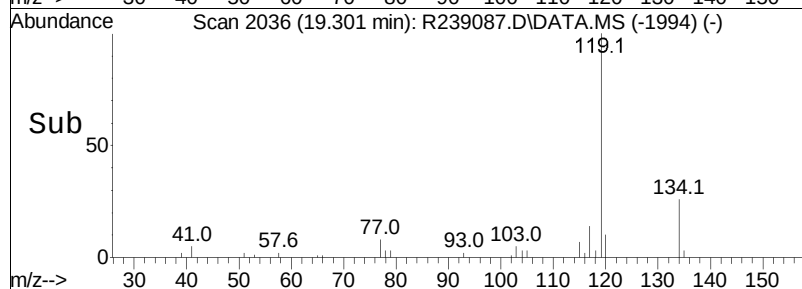
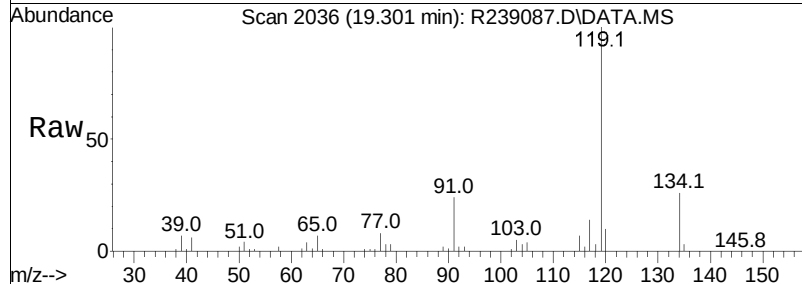
Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.8	14.9	22.3

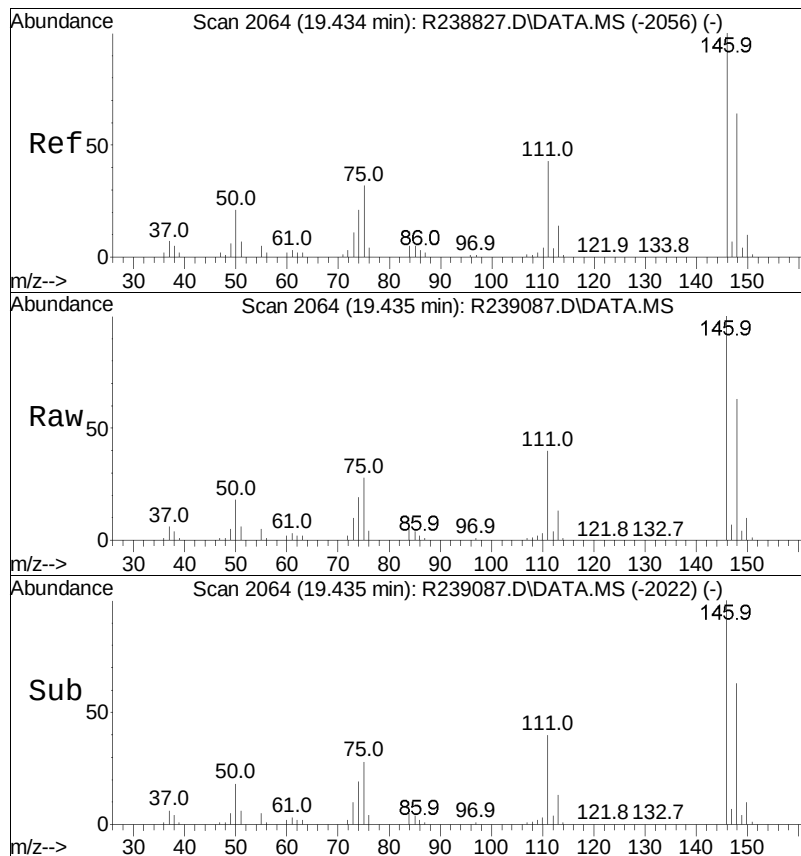




#106
 p-isopropyltoluene
 Concen: 9.20 ppbV
 RT: 19.30 min Scan# 2036
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

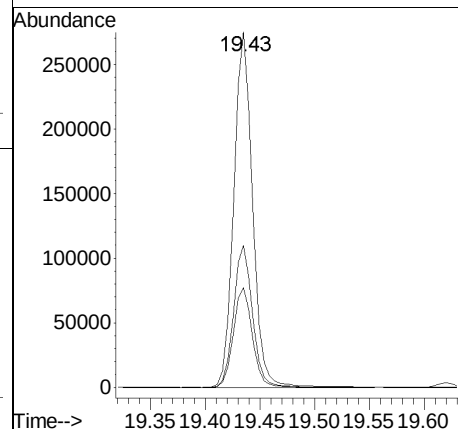
Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.0	19.5	29.3

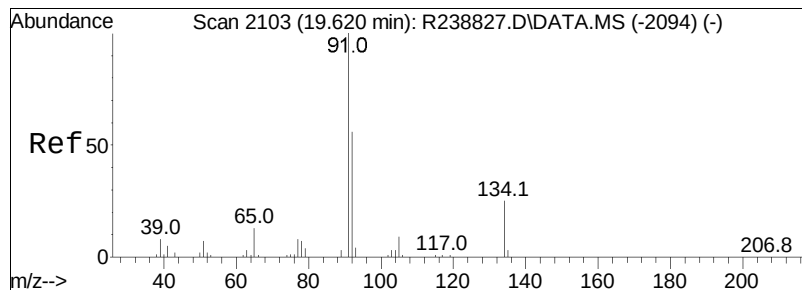




#107
 1,2-dichlorobenzene
 Concen: 11.08 ppbV
 RT: 19.43 min Scan# 2064
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

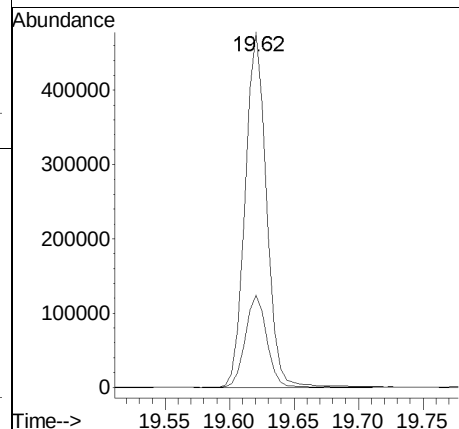
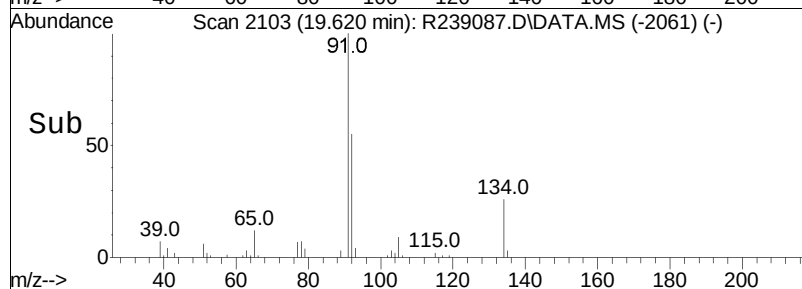
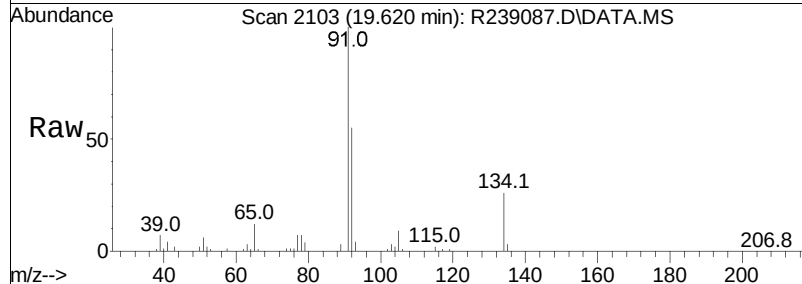
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	34.7	52.1
75	28.1	25.9	38.9

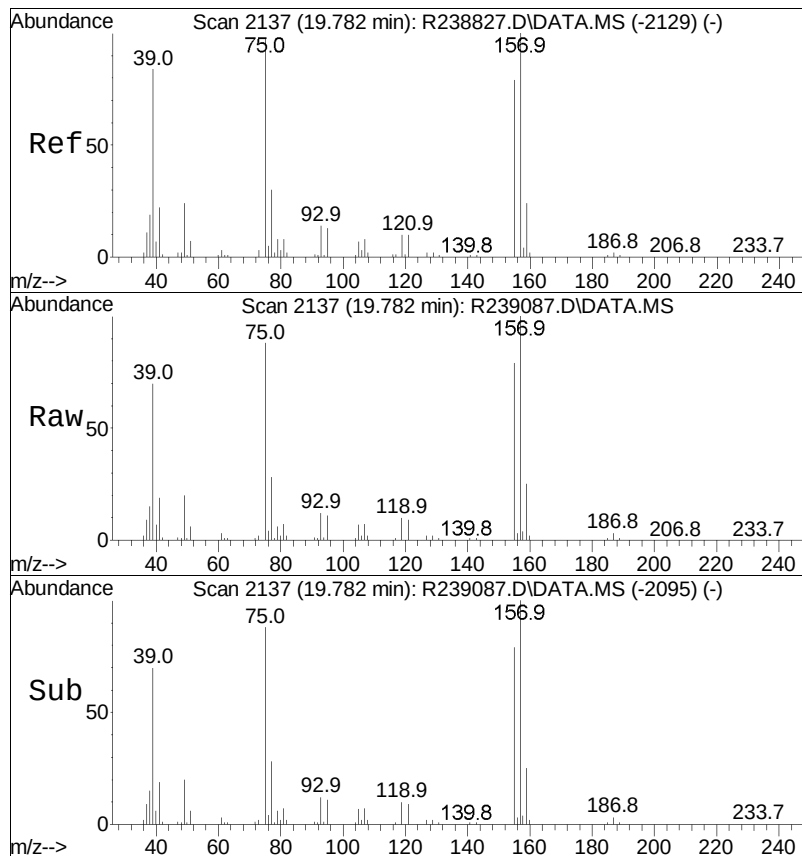




#108
 n-butylbenzene
 Concen: 10.03 ppbV
 RT: 19.62 min Scan# 2103
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

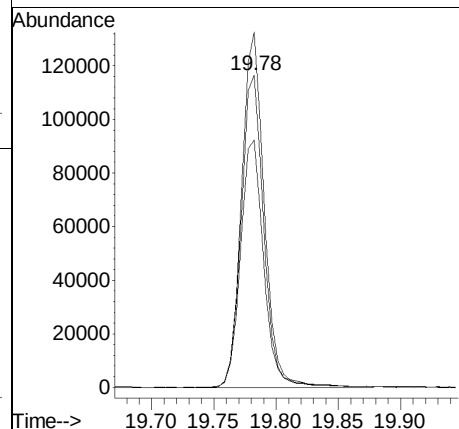
Tgt Ion	Ratio	Lower	Upper
91	100		
134	26.0	19.8	29.8

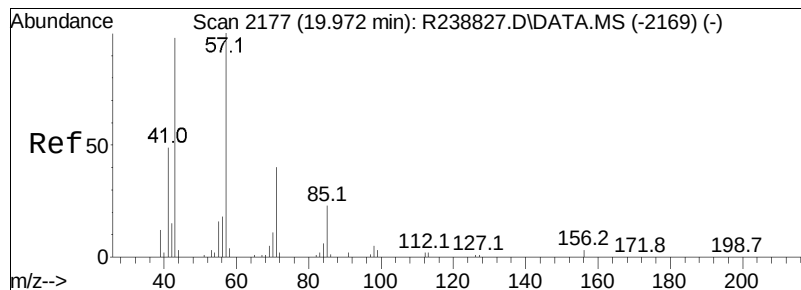




#111
 1,2-dibromo-3-chloropropane
 Concen: 9.20 ppbV
 RT: 19.78 min Scan# 2137
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

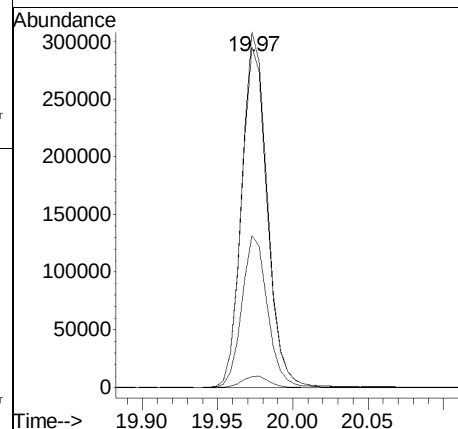
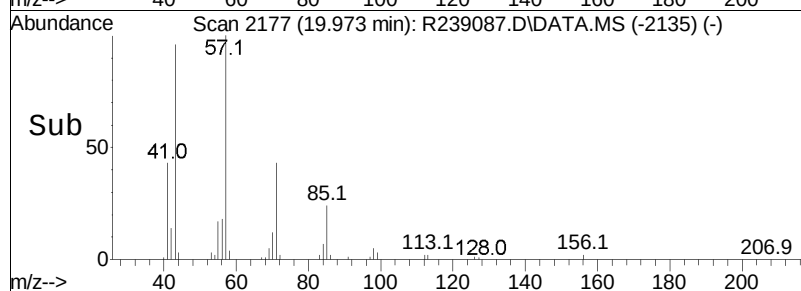
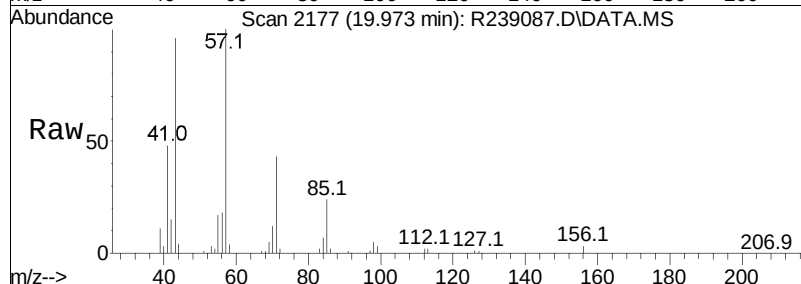
Tgt Ion:	75	Resp:	147838
Ion Ratio	100	Lower	Upper
75	100		
157	113.8	81.6	122.4
39	79.2	69.0	103.4

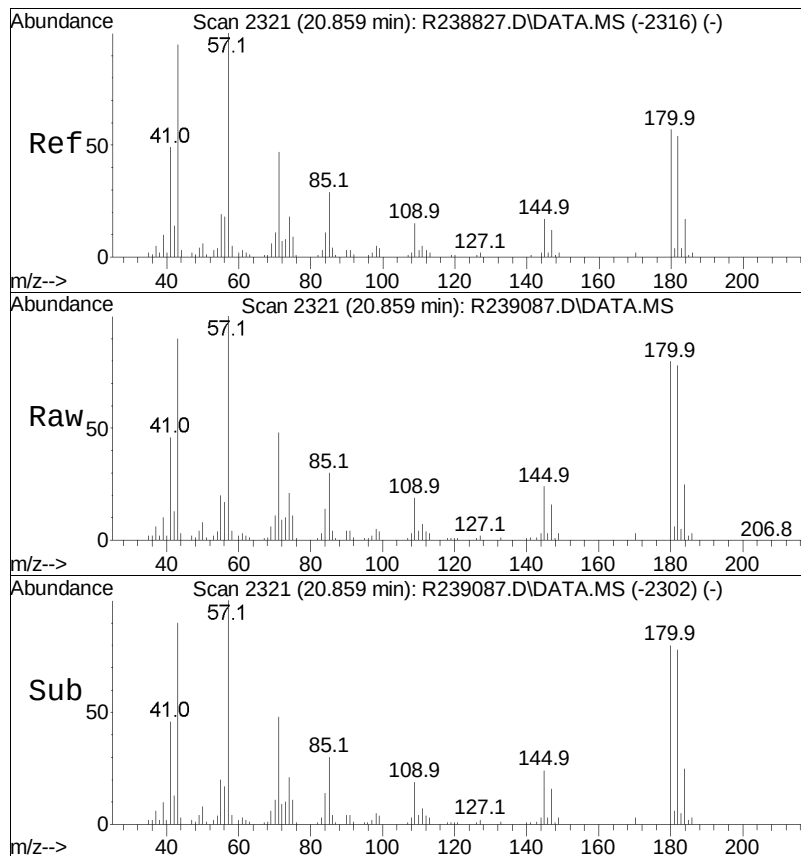




#112
undecane
Concen: 9.51 ppbV
RT: 19.97 min Scan# 2177
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

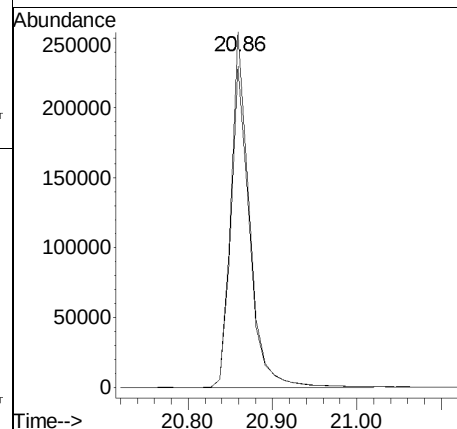
Tgt Ion:	57	Resp:	365045
Ion Ratio	Lower	Upper	
57	100		
43	95.8	78.6	117.8
71	42.7	31.8	47.8
156	3.0	2.1	3.1

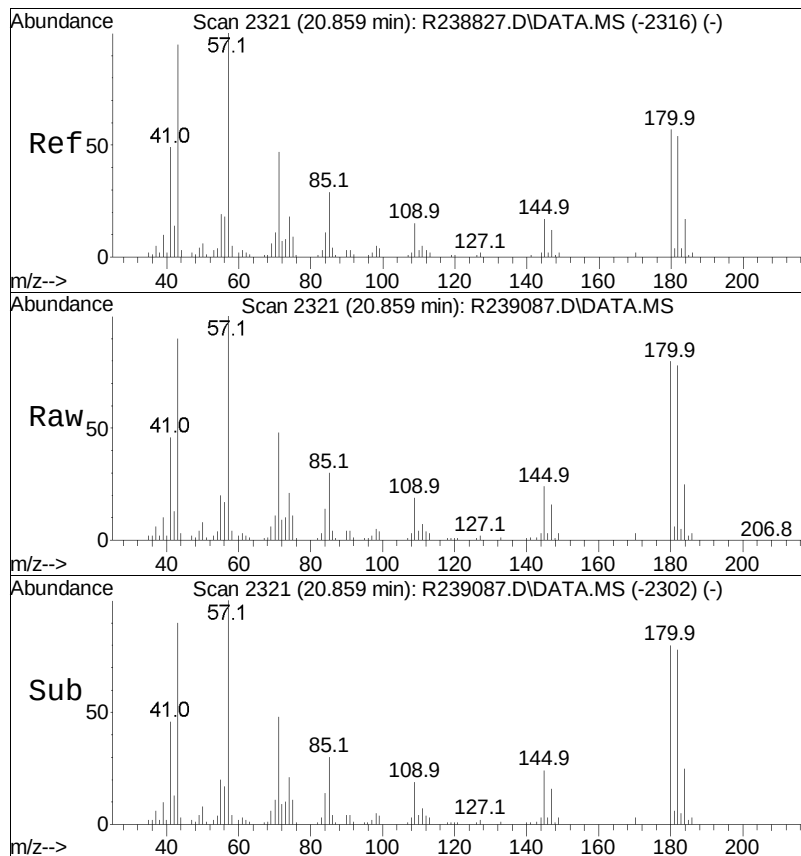




#114
dodecane
Concen: 9.73 ppbV
RT: 20.86 min Scan# 2321
Delta R.T. 0.000 min
Lab File: R239087.D
Acq: 19 Feb 2016 2:17 pm

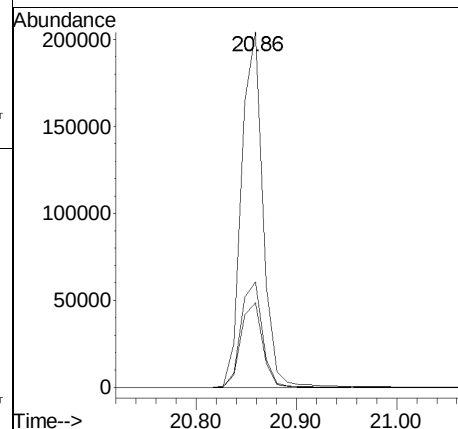
Tgt Ion:	57	43	Ratio	100	90.4	Resp:	388404	Lower	75.7	Upper	113.5

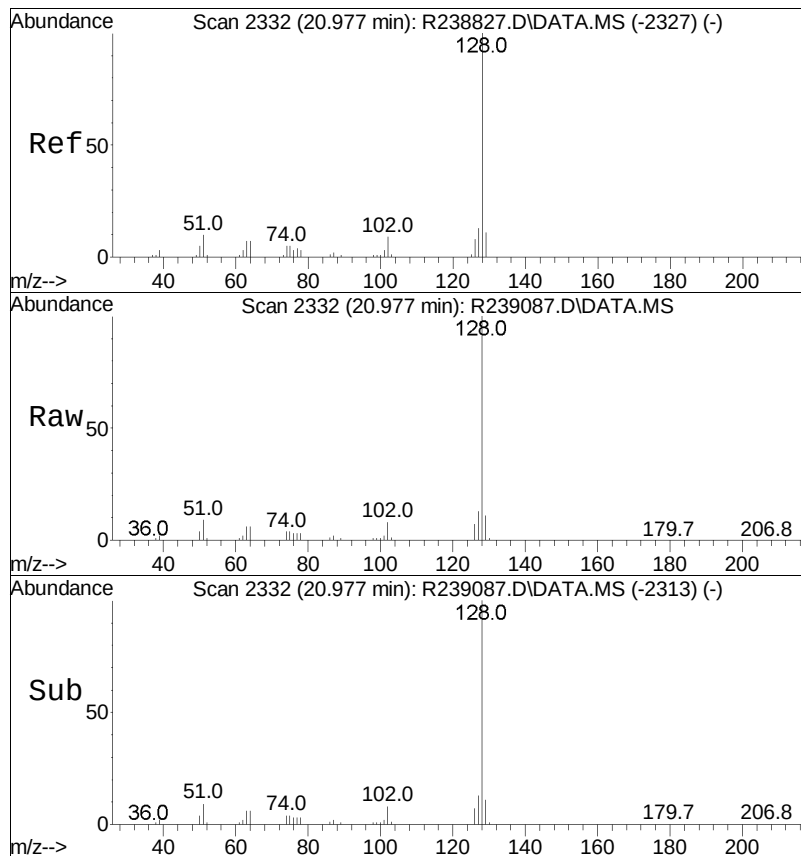




#115
 1,2,4-trichlorobenzene
 Concen: 12.24 ppbV
 RT: 20.86 min Scan# 2321
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

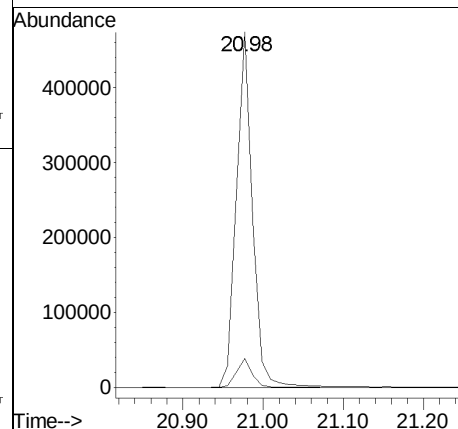
Tgt Ion	Ratio	Lower	Upper
180	100		
145	29.7	24.2	36.2
109	23.8	20.8	31.2

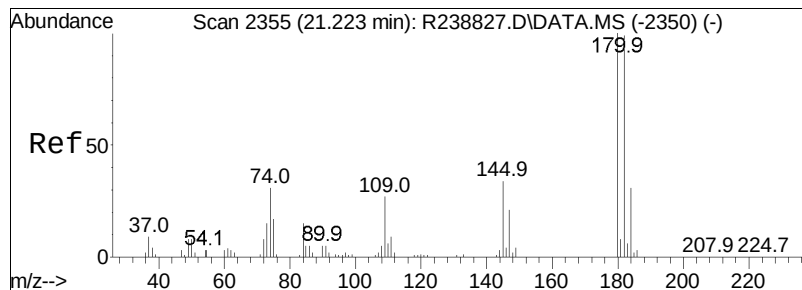




#116
 naphthalene
 Concen: 10.74 ppbV
 RT: 20.98 min Scan# 2332
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

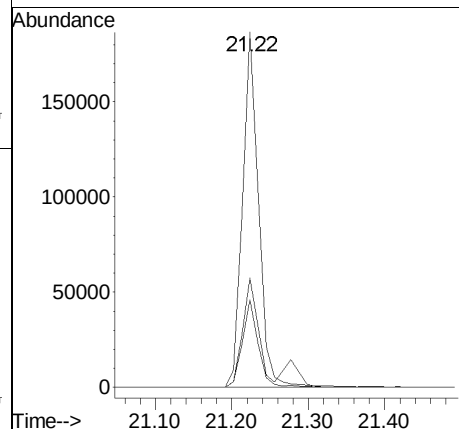
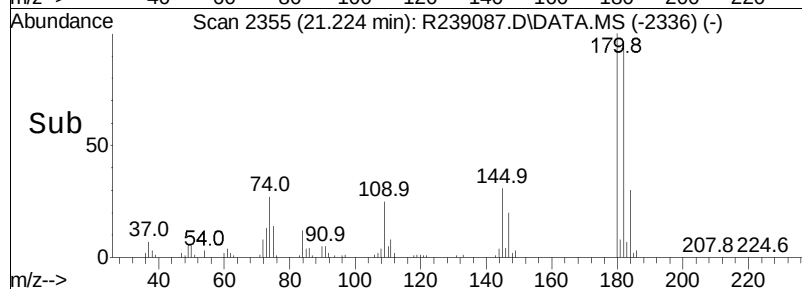
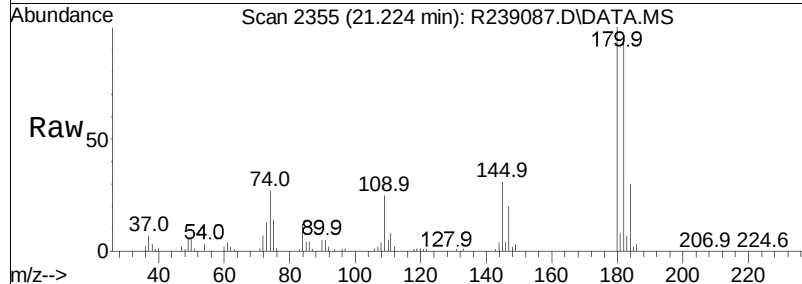
Tgt Ion	Ratio	Lower	Upper
128	100		
102	8.2	7.1	10.7

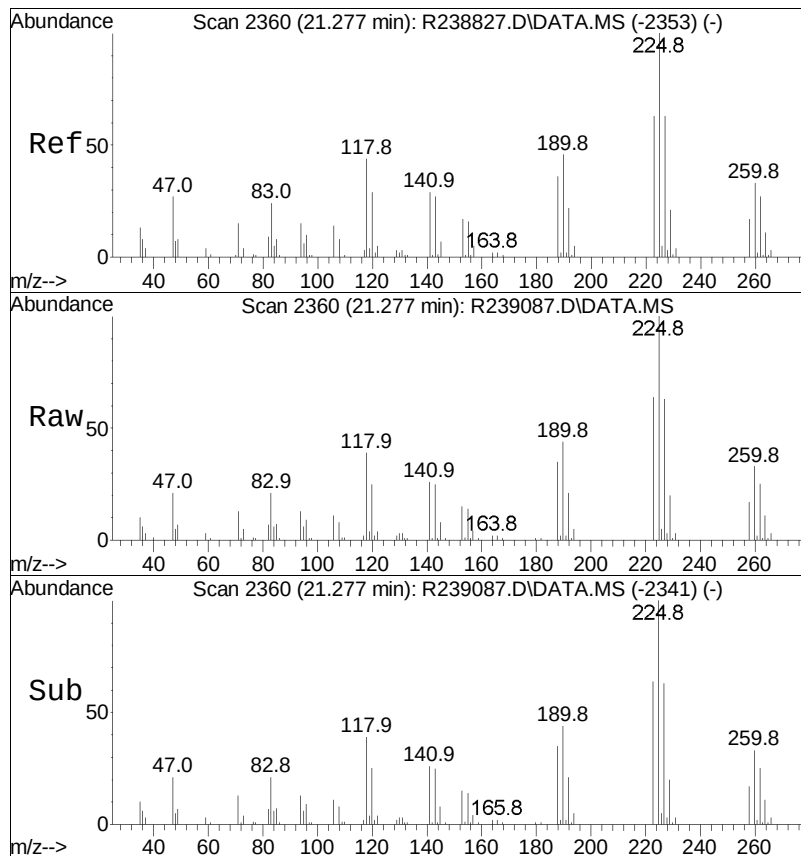




#117
 1,2,3-trichlorobenzene
 Concen: 10.95 ppbV
 RT: 21.22 min Scan# 2355
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

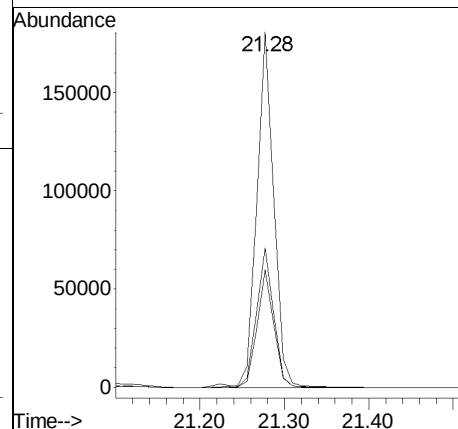
Tgt Ion	Ratio	Lower	Upper
180	100		
145	30.8	27.1	40.7
109	24.7	21.6	32.4





#119
 hexachlorobutadiene
 Concen: 11.51 ppbV
 RT: 21.28 min Scan# 2360
 Delta R.T. 0.000 min
 Lab File: R239087.D
 Acq: 19 Feb 2016 2:17 pm

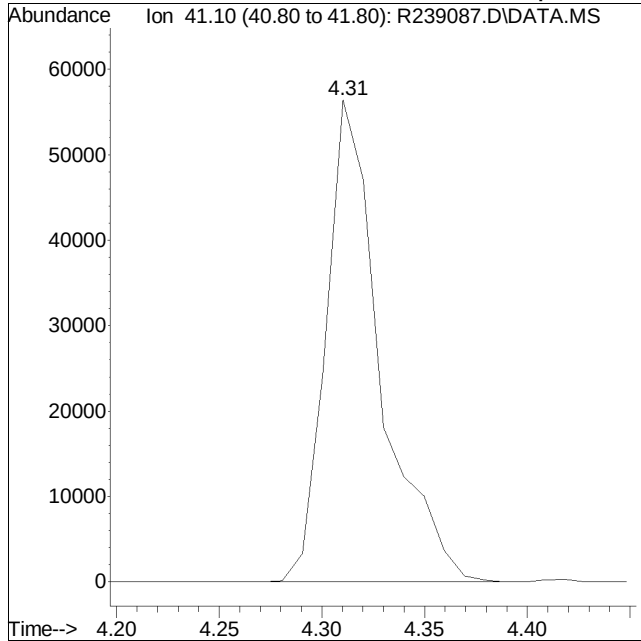
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	252430		
260	33.1		26.6	40.0
118	39.3		35.1	52.7



Manual Integration/Negative Proof Report

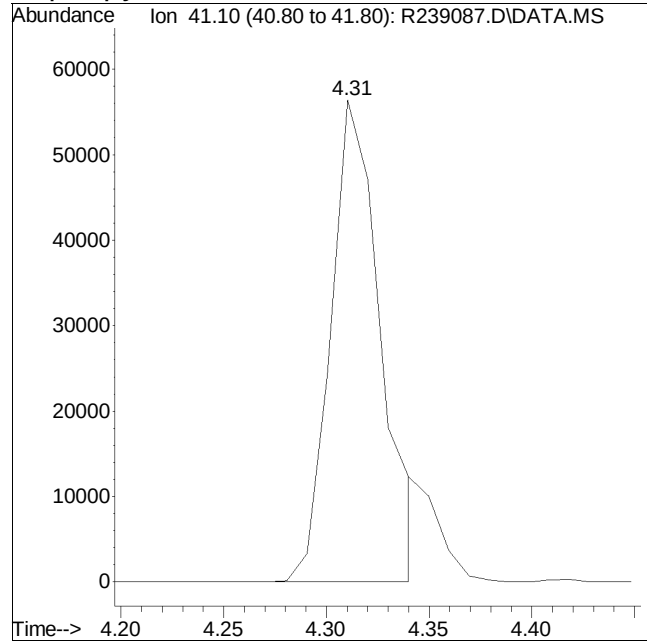
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239087.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 2:17 pm Instrument : Air Piano 2
Sample : WG866471-3,3,250,250 Quant Date : 2/19/2016 2:43 pm

Compound #3: propylene



Original Peak Response = 104296

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

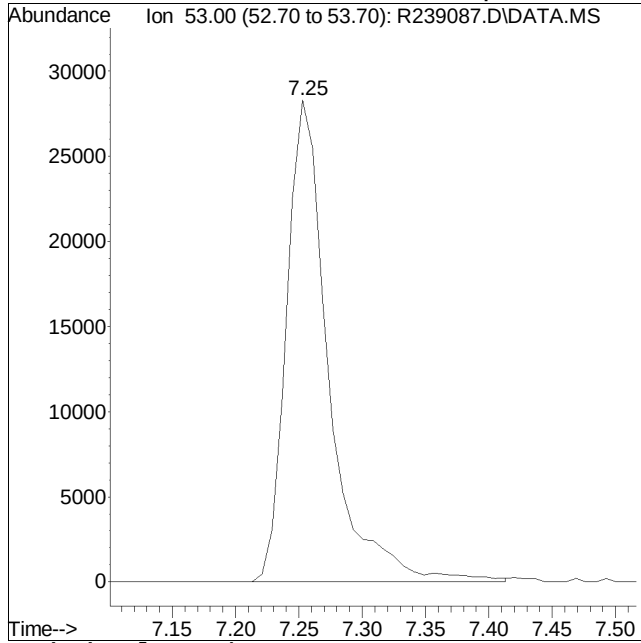


Manual Peak Response = 95629 M6

Manual Integration/Negative Proof Report

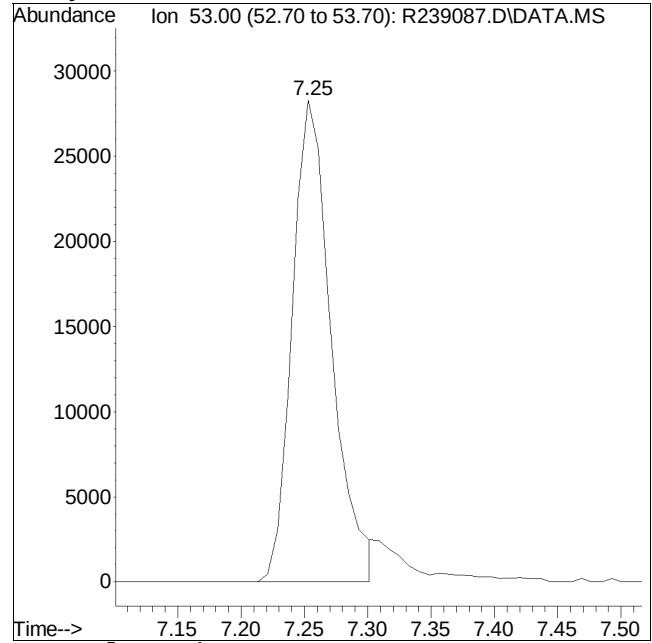
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239087.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 2:17 pm Instrument : Air Piano 2
Sample : WG866471-3,3,250,250 Quant Date : 2/19/2016 2:43 pm

Compound #23: acrylonitrile



Original Peak Response = 65977

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

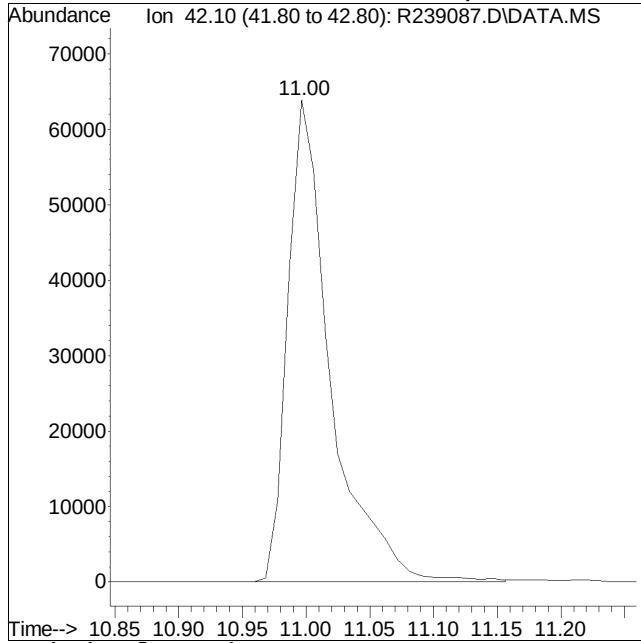


Manual Peak Response = 60885 M6

Manual Integration/Negative Proof Report

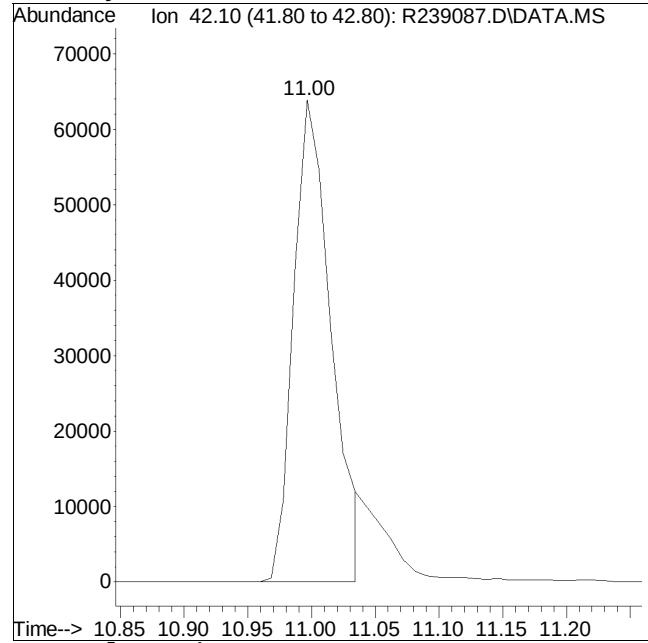
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TALL160207.M
Data File : R239087.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 2:17 pm Instrument : Air Piano 2
Sample : WG866471-3,3,250,250 Quant Date : 2/19/2016 2:43 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 149593

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 131532 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239092.D
 Acq On : 19 Feb 2016 6:53 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-5,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:20:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	135546	10.000	ppbV	0.00
Standard Area = 147221			Recovery =		92.07%	
43) 1,4-difluorobenzene	12.54	114	338281	10.000	ppbV	0.00
Standard Area = 368790			Recovery =		91.73%	
67) chlorobenzene-D5	16.89	54	70178	10.000	ppbV	0.00
Standard Area = 80342			Recovery =		87.35%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.42	85	7426	0.433	ppbV	96
6) chloromethane	4.65	50	4456	0.470	ppbV	93
7) Freon-114	4.80		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.02	31	2128682	260.148	ppbV	93
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.66	43	33703	2.122	ppbV #	89
21) trichlorofluoromethane	6.84	101	4513	0.210	ppbV	90
22) isopropyl alcohol	7.03	45	36111M4	1.990	ppbV	
27) tertiary butyl alcohol	0.00		0	N.D.		
28) methylene chloride	7.84	49	2837	0.217	ppbV	97
29) 3-chloropropene	7.89		0	N.D.		
30) carbon disulfide	8.16		0	N.D.		
31) Freon 113	8.16	101	1032	0.057	ppbV #	85
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.	d	
36) 2-butanone	9.74	43	3004	0.120	ppbV #	93
38) Ethyl Acetate	10.49	61	384	0.128	ppbV #	29
39) chloroform	10.53	83	6978	0.363	ppbV #	96
40) Tetrahydrofuran	11.11		0	N.D.		
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.43	57	1498	0.079	ppbV #	33
50) benzene	12.16	78	12241	0.371	ppbV	100
53) cyclohexane	12.46	56	1189	0.058	ppbV #	84
56) 1,2-dichloropropane	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239092.D
 Acq On : 19 Feb 2016 6:53 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-5,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:20:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219T\R239086.D
 Sub List : T015-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	13.29		0		N.D.	
58) 1,4-dioxane	0.00		0		N.D.	
60) 2,2,4-trimethylpentane	13.37		0		N.D.	
62) heptane	13.66		0		N.D.	
63) cis-1,3-dichloropropene	0.00		0		N.D.	
64) 4-methyl-2-pentanone	0.00		0		N.D.	d
65) trans-1,3-dichloropropene	0.00		0		N.D.	
66) 1,1,2-trichloroethane	0.00		0		N.D.	
68) toluene	15.33	91	11967	0.255	ppbV	94
72) 2-hexanone	0.00		0		N.D.	d
74) dibromochloromethane	0.00		0		N.D.	
75) 1,2-dibromoethane	0.00		0		N.D.	
80) chlorobenzene	0.00		0		N.D.	d
81) ethylbenzene	17.22	91	7016	0.166	ppbV	97
83) m+p-xylene	17.35	91	5738	0.175	ppbV #	82
84) bromoform	0.00		0		N.D.	
85) styrene	17.65		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.00		0		N.D.	d
87) o-xylene	17.72	91	2662	0.079	ppbV	92
96) 4-ethyl toluene	18.64	105	3646	0.073	ppbV #	92
97) 1,3,5-trimethylbenzene	18.69	105	3525	0.085	ppbV	98
99) 1,2,4-trimethylbenzene	19.00	105	8624	0.220	ppbV #	51
101) Benzyl Chloride	19.12		0		N.D.	
102) 1,3-dichlorobenzene	0.00		0		N.D.	
103) 1,4-dichlorobenzene	0.00		0		N.D.	
107) 1,2-dichlorobenzene	0.00		0		N.D.	
115) 1,2,4-trichlorobenzene	0.00		0		N.D.	
119) hexachlorobutadiene	0.00		0		N.D.	

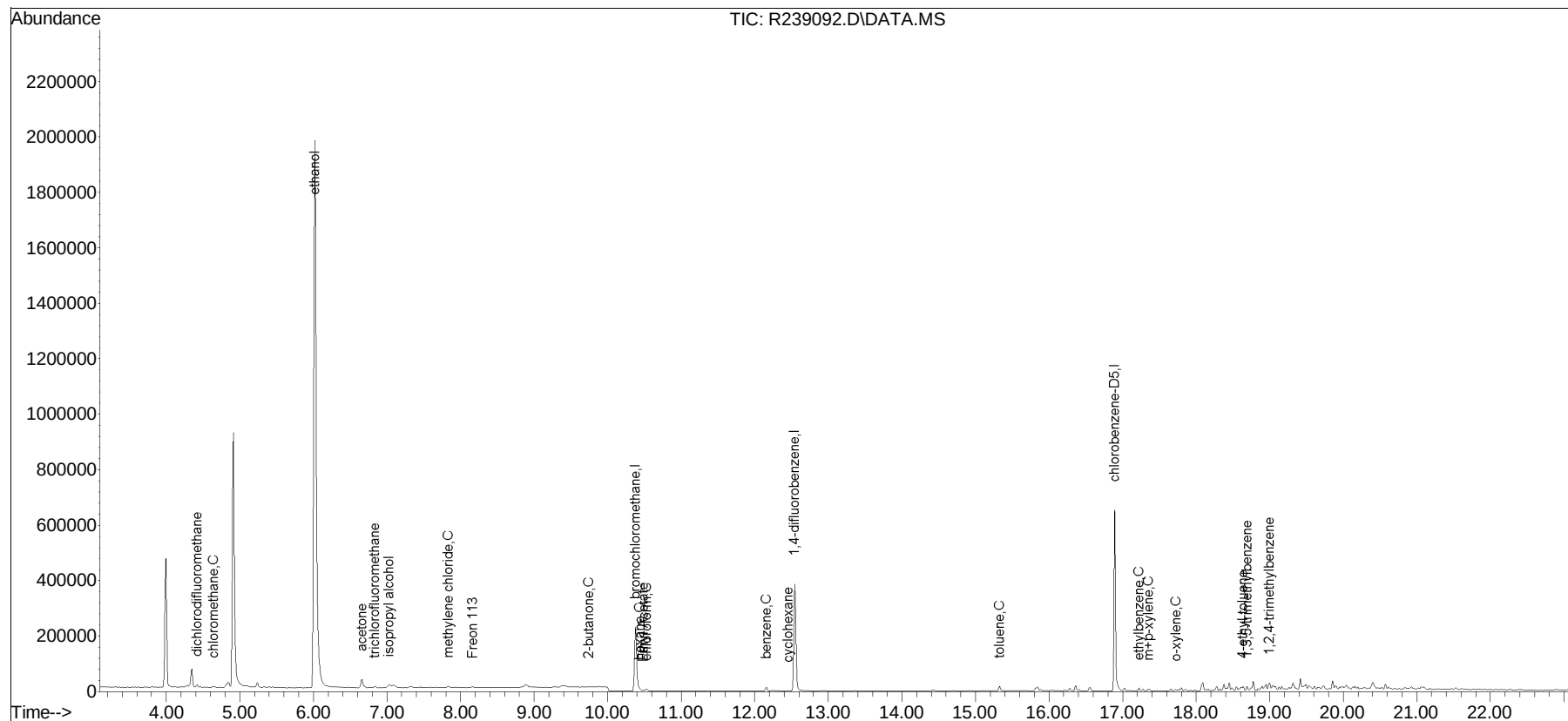
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219T\
 Data File : R239092.D
 Acq On : 19 Feb 2016 6:53 pm
 Operator : AIRPIAN02:RY
 Sample : WG866471-5,3,250,250
 Misc : WG866471,ICAL12008
 ALS Vial : 1 Sample Multiplier: 1

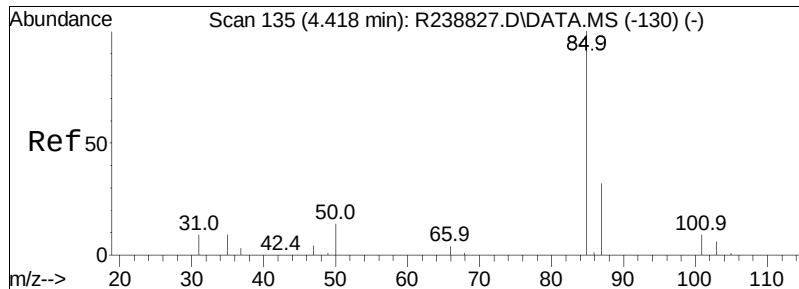
Quant Time: Feb 20 10:20:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219T\TALL160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 08 10:04:44 2016
 Response via : Initial Calibration

Sub List : T015-NY-7-SIM - .\AIR2\2016\160219T\R239086.D



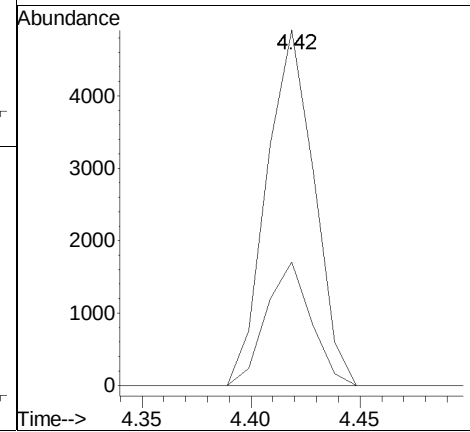
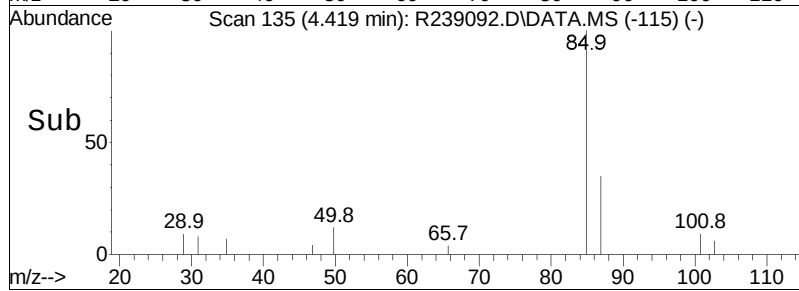
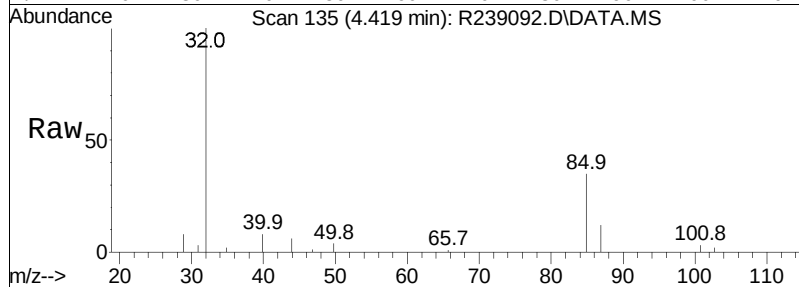
TALL160207.M Sat Feb 20 10:20:48 2016

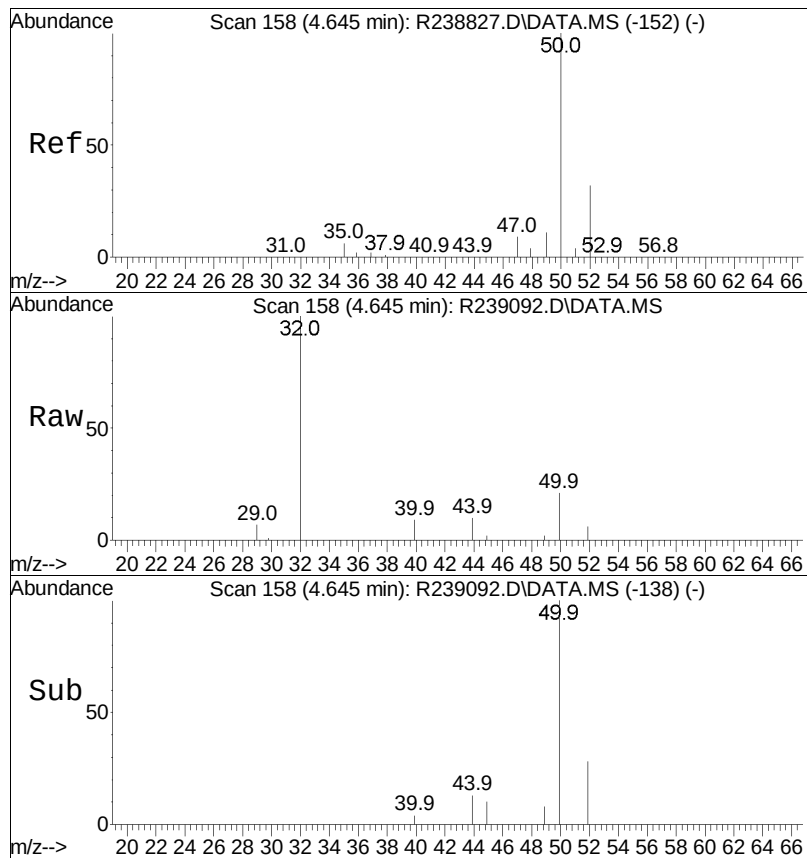
Page 3



#5
dichlorodifluoromethane
Concen: 0.43 ppbV
RT: 4.42 min Scan# 135
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

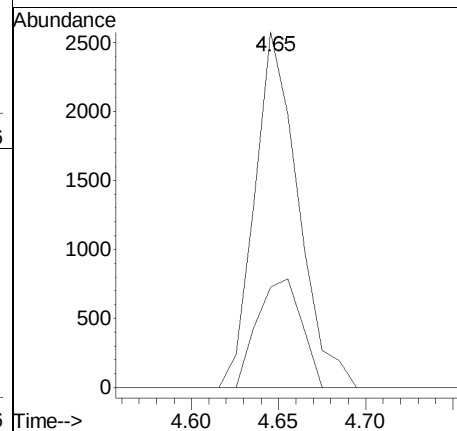
Tgt Ion: 85 Resp: 7426
Ion Ratio Lower Upper
85 100
87 34.7 25.8 38.8

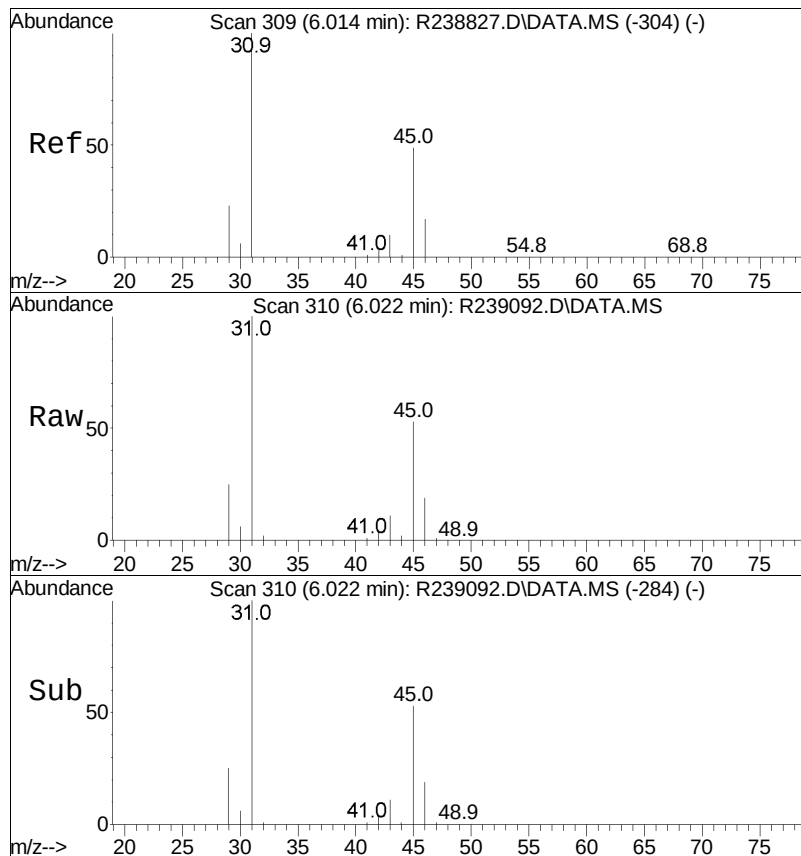




#6
 chloromethane
 Concen: 0.47 ppbV
 RT: 4.65 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

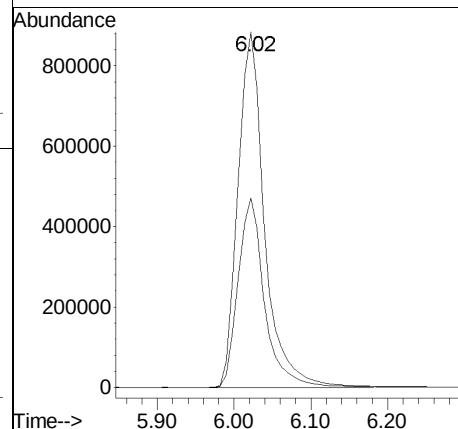
Tgt	Ion	Resp	Lower	Upper
50	100	4456		
52	28.2		25.5	38.3

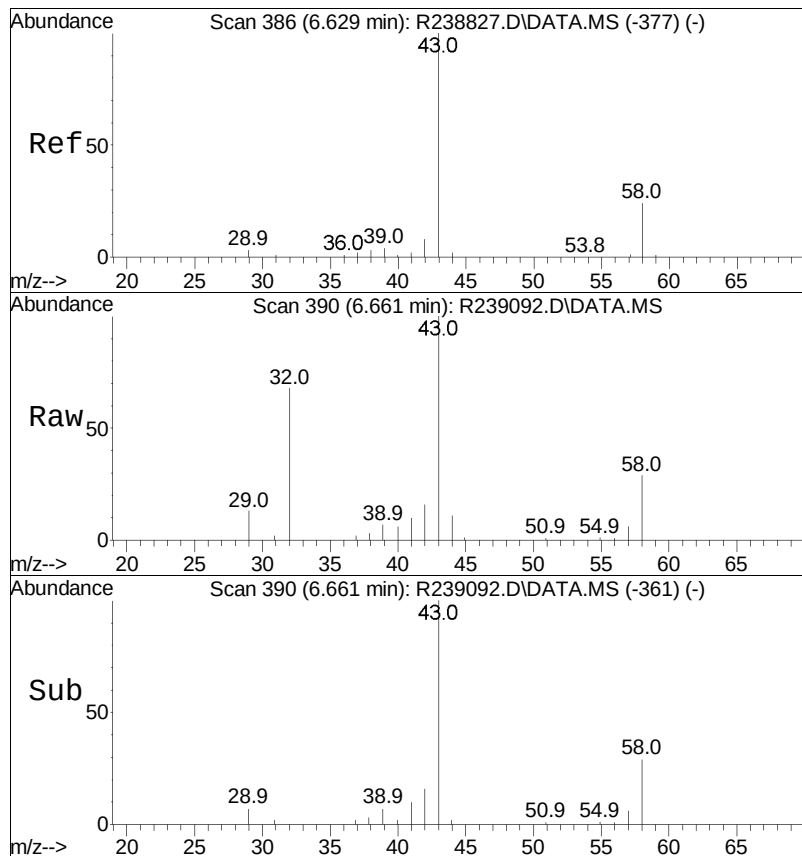




#15
 ethanol
 Concen: 260.15 ppbV
 RT: 6.02 min Scan# 310
 Delta R.T. 0.008 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

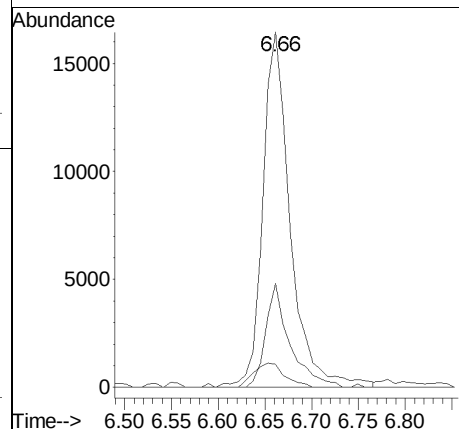
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	53.3	38.7	58.1	

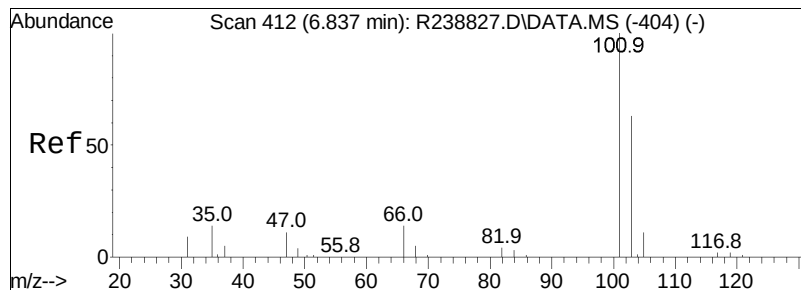




#19
acetone
Concen: 2.12 ppbV
RT: 6.66 min Scan# 390
Delta R.T. 0.032 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

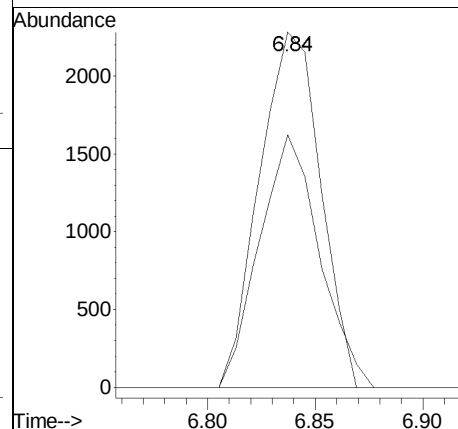
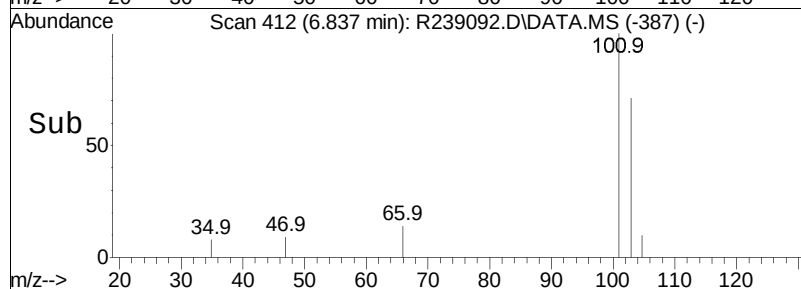
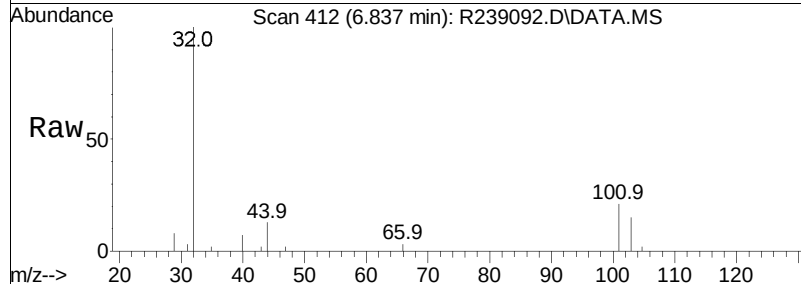
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	29.3	19.2	28.8#	
57	6.5	0.6	1.0#	

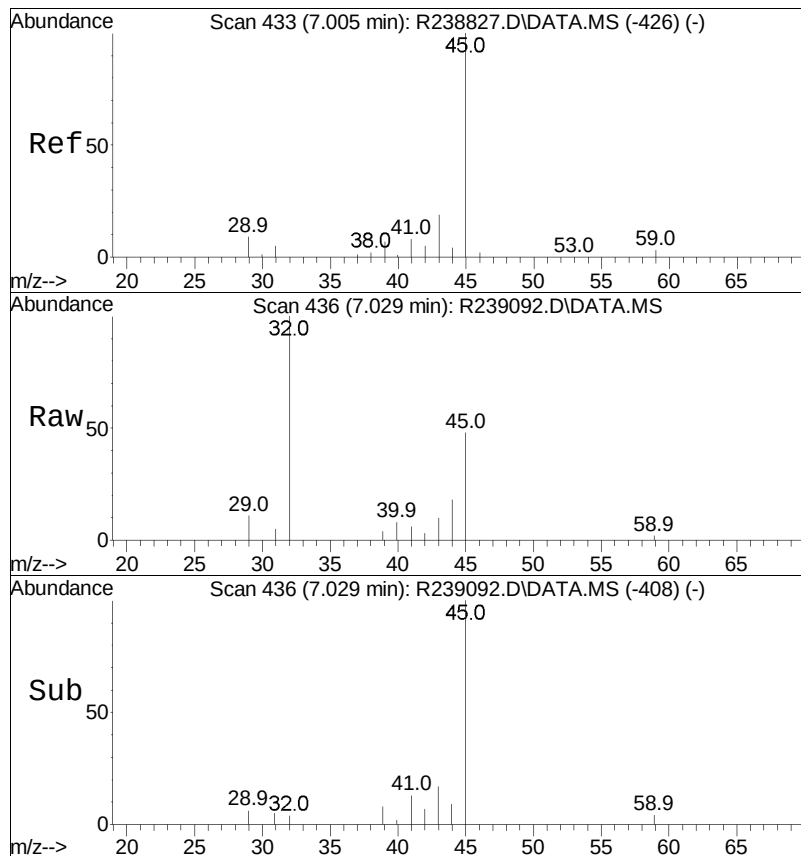




#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.84 min Scan# 412
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

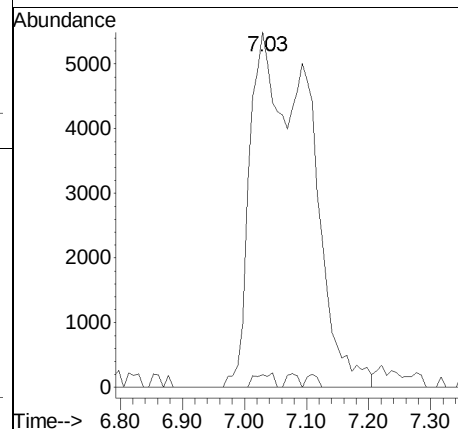
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	103	71.1	50.5	75.7

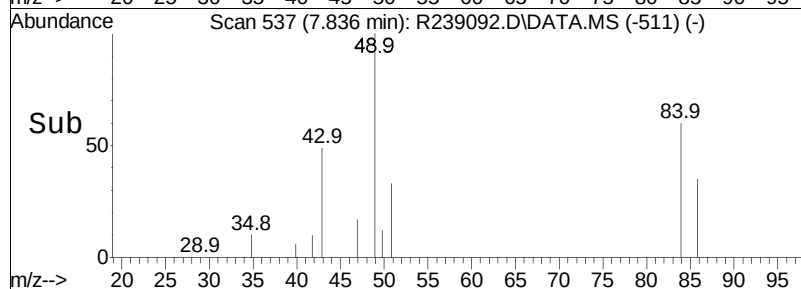
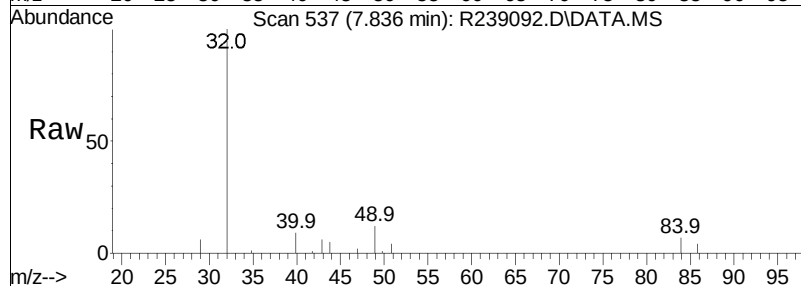
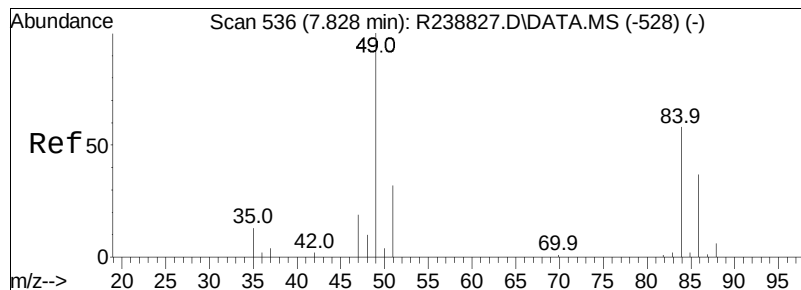




#22
 isopropyl alcohol
 Concen: 1.99 ppbV m
 RT: 7.03 min Scan# 436
 Delta R.T. 0.024 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

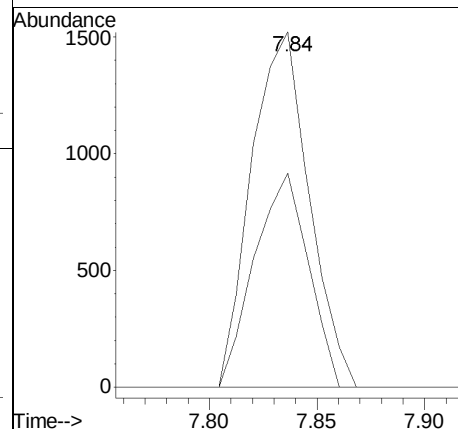
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.6	2.6	4.0

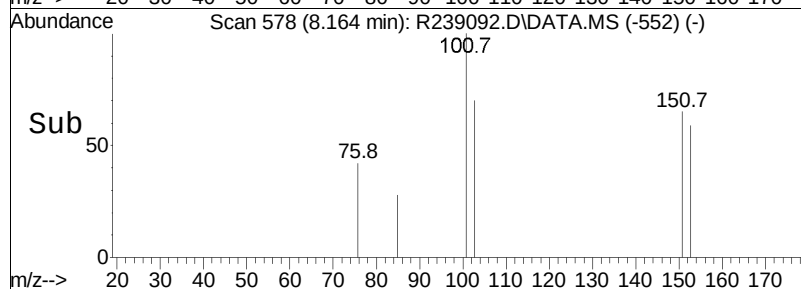
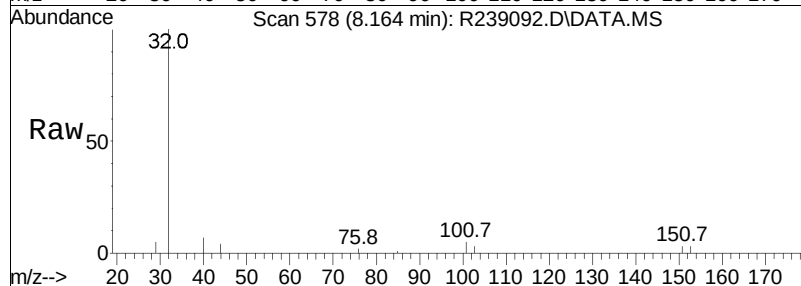
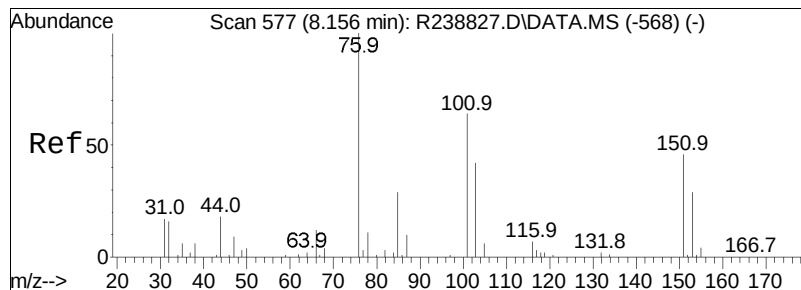




#28
 methylene chloride
 Concen: 0.22 ppbV
 RT: 7.84 min Scan# 537
 Delta R.T. 0.008 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

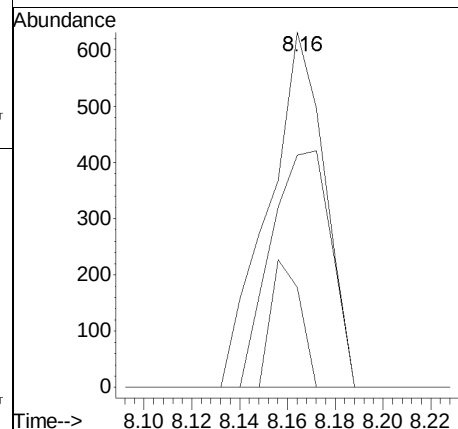
Tgt Ion:	49	84	Ratio	100	60.3	Resp:	2837	Lower	Upper
								46.5	69.7

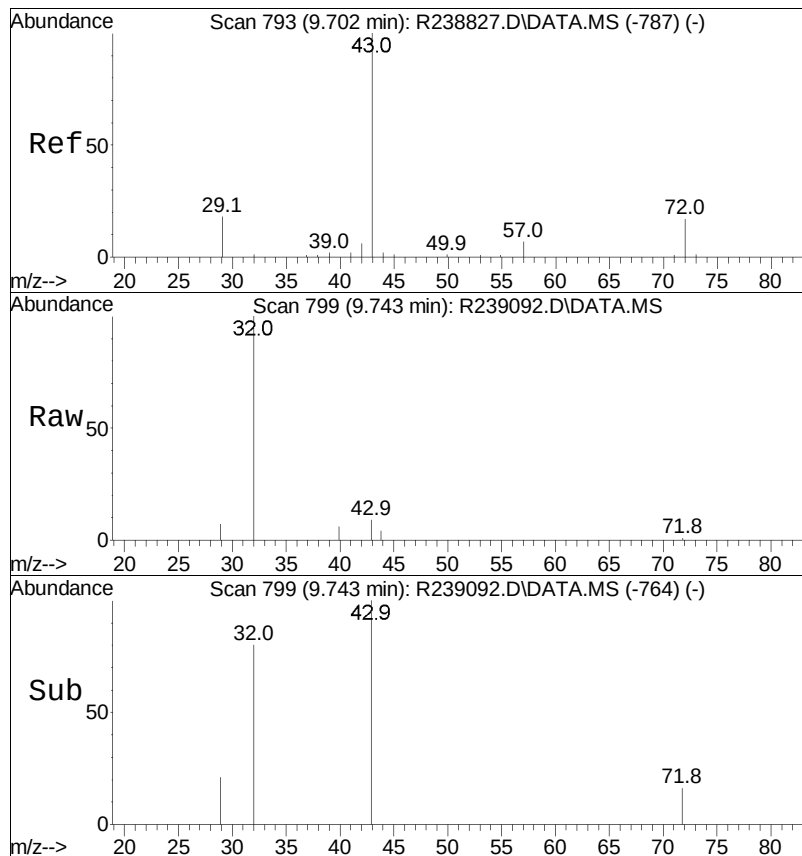




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 8.16 min Scan# 578
 Delta R.T. 0.008 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

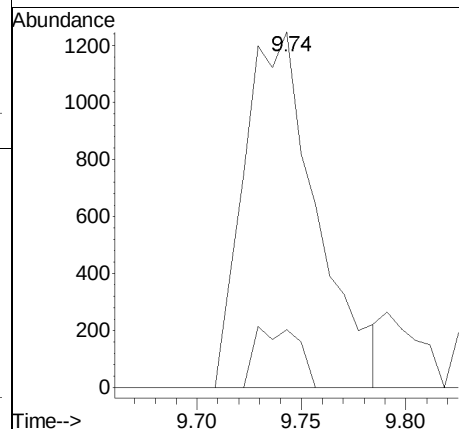
Tgt Ion	Ratio	Lower	Upper
101	100		
85	28.2	35.8	53.6#
151	65.3	57.4	86.2

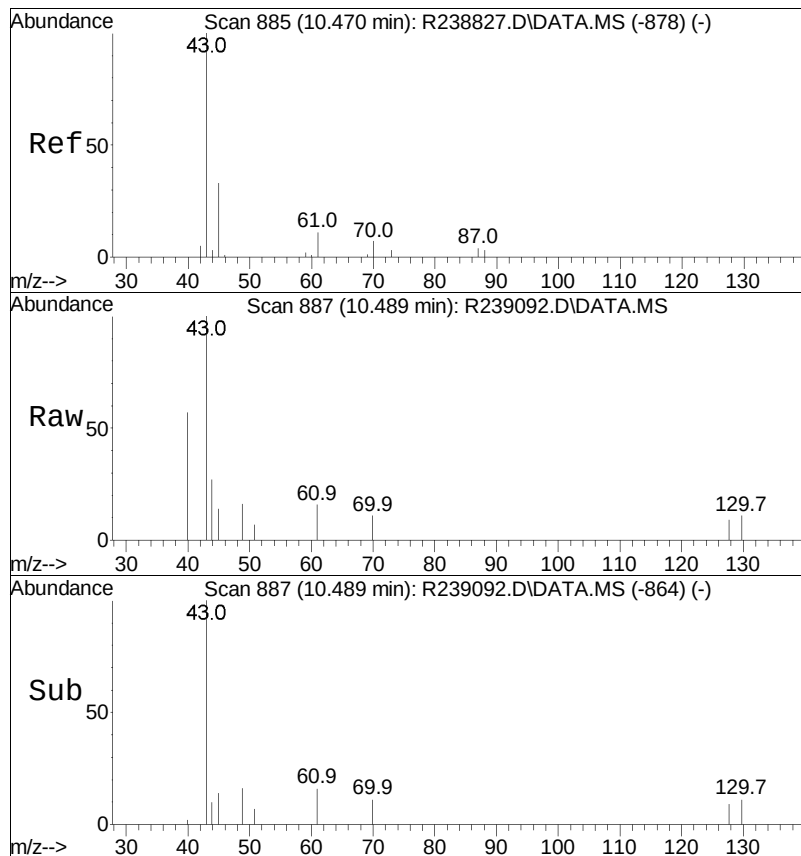




#36
 2-butanone
 Concen: 0.12 ppbV
 RT: 9.74 min Scan# 799
 Delta R.T. 0.041 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

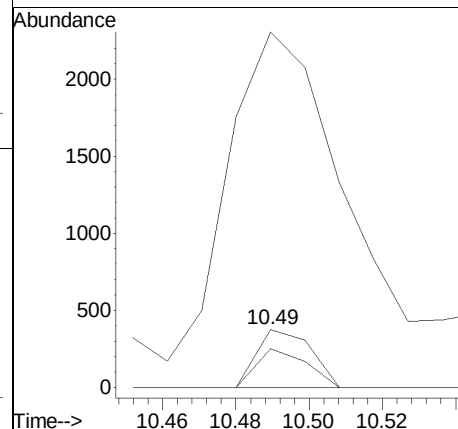
Tgt Ion	Ratio	Lower	Upper
43	100		
72	16.3	13.5	20.3
57	0.0	5.5	8.3#

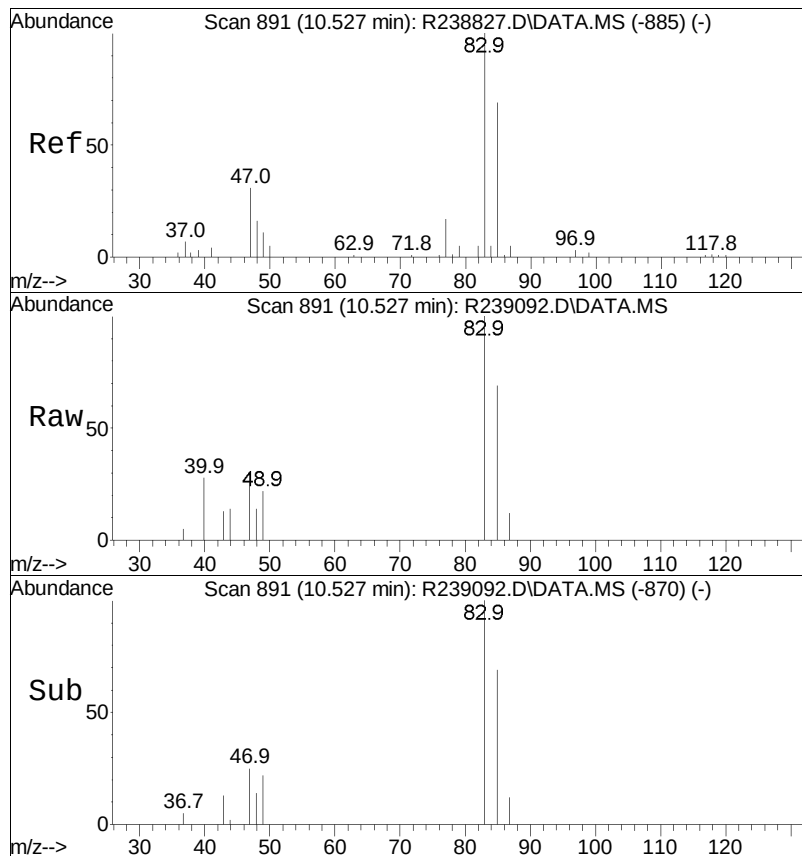




#38
 Ethyl Acetate
 Concen: 0.13 ppbV
 RT: 10.49 min Scan# 887
 Delta R.T. 0.019 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

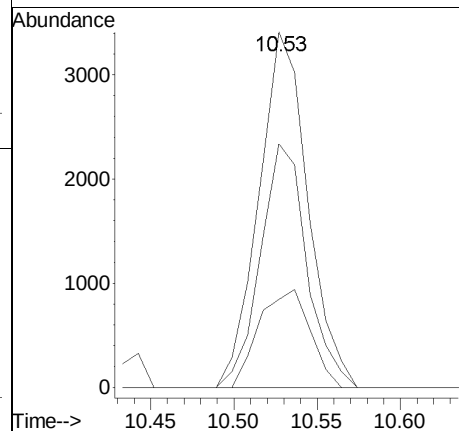
Tgt Ion	Ratio	Lower	Upper
61	100		
70	66.9	54.6	81.8
43	614.9	753.4	1130.0#

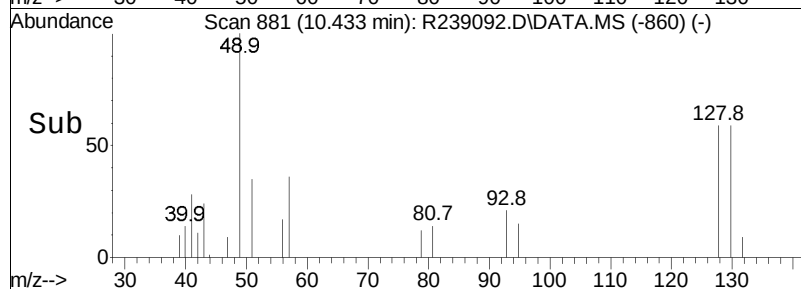
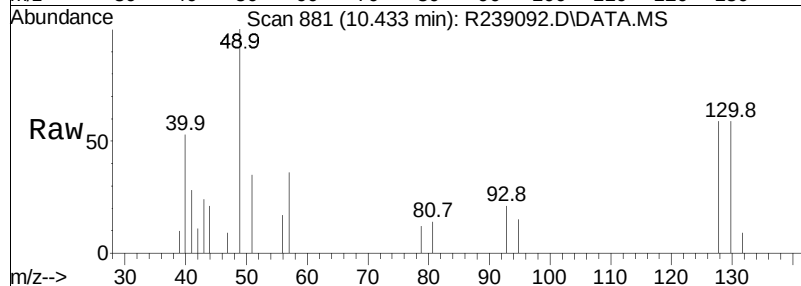
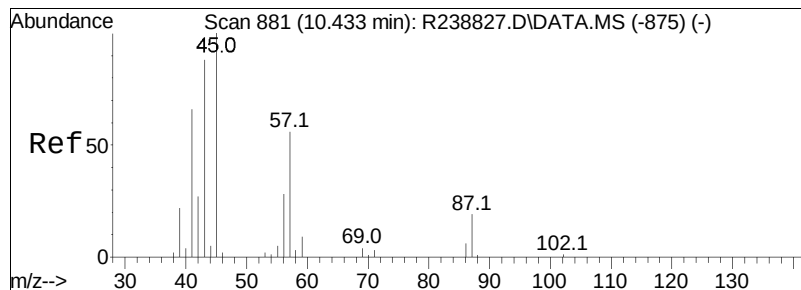




#39
 chloroform
 Concen: 0.36 ppbV
 RT: 10.53 min Scan# 891
 Delta R.T. 0.000 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

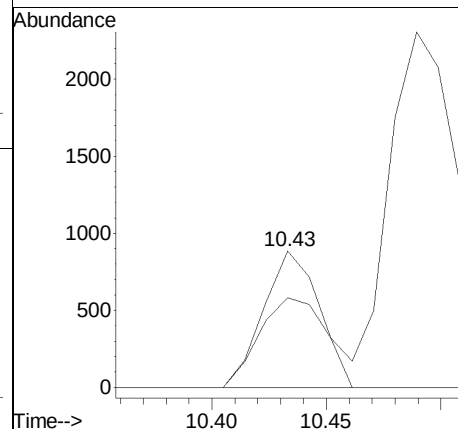
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	6978		
85	68.6		55.1	82.7
47	24.8		24.9	37.3#

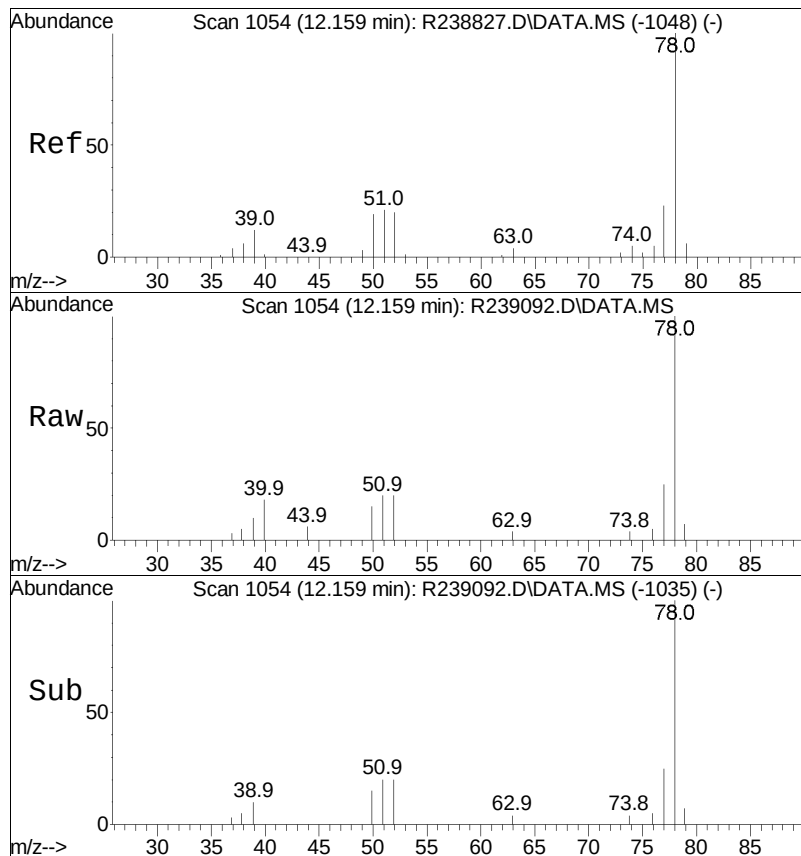




#44
hexane
Concen: 0.08 ppbV
RT: 10.43 min Scan# 881
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

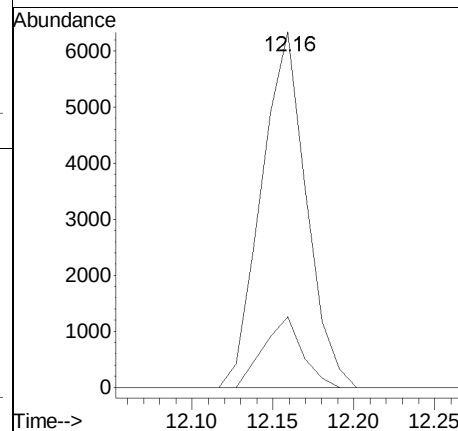
Tgt Ion	Ratio	Lower	Upper
57	100		
43	65.8	125.3	187.9#
86	0.0	9.0	13.6#

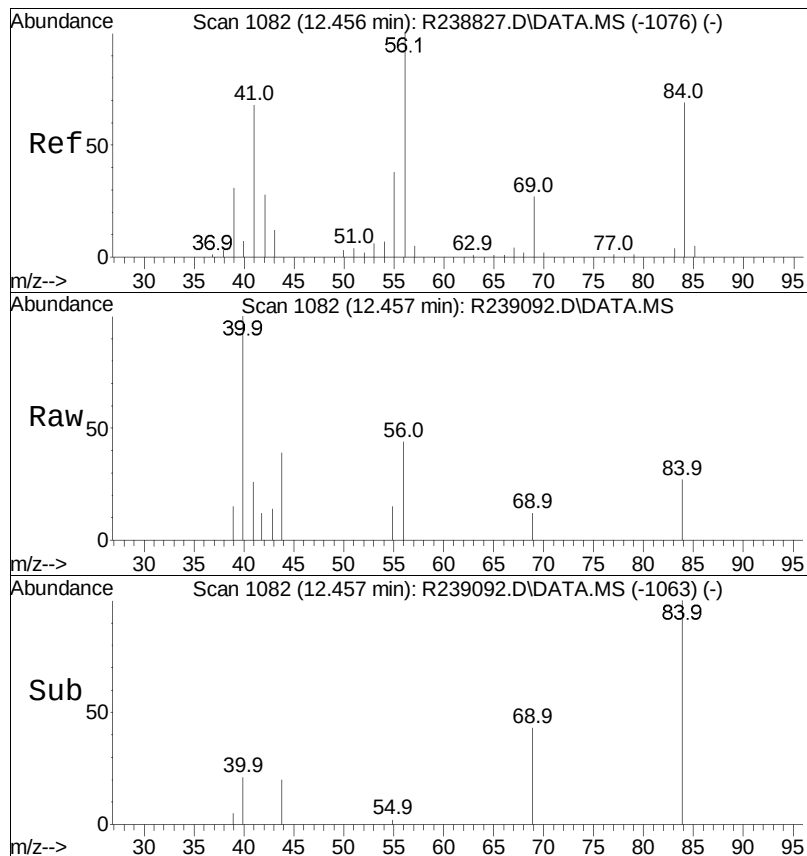




#50
benzene
Concen: 0.37 ppbV
RT: 12.16 min Scan# 1054
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

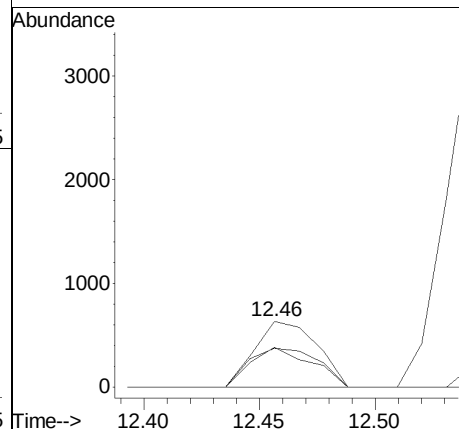
Tgt Ion	Ratio	Lower	Upper
78	100		
52	19.8	15.9	23.9

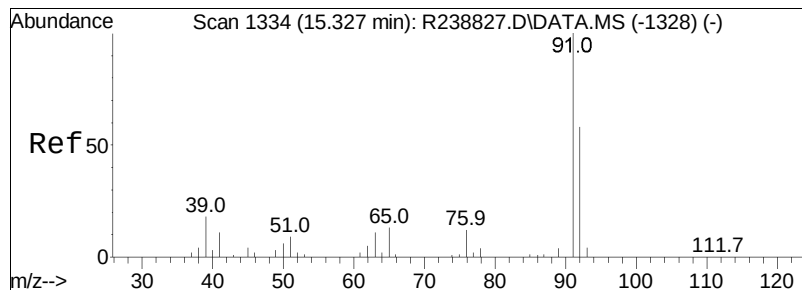




#53
cyclohexane
Concen: 0.06 ppbV
RT: 12.46 min Scan# 1082
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

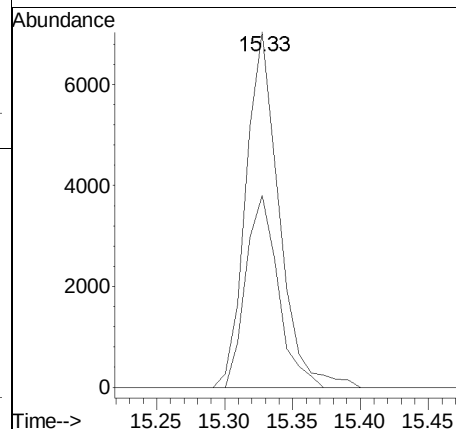
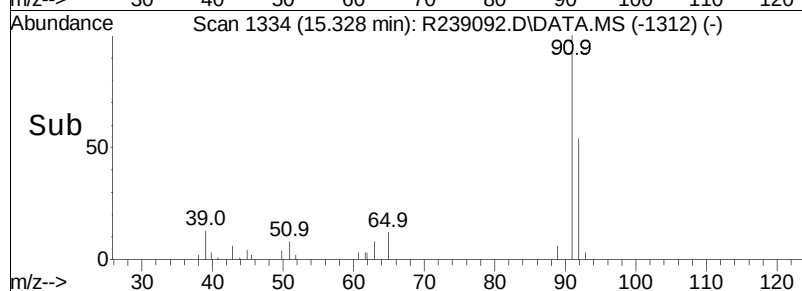
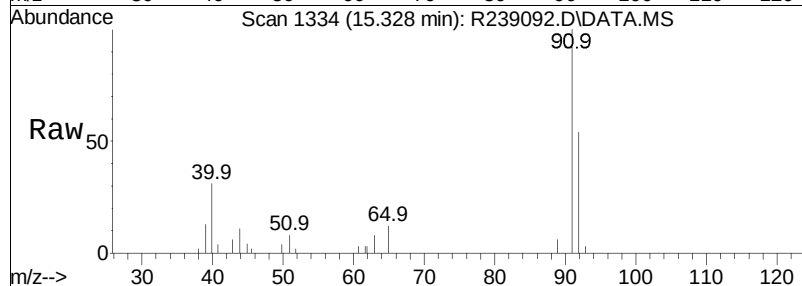
Tgt	Ion	Resp	Lower	Upper
56	100			
84	60.8	56.2	84.4	
41	85.5	54.6	82.0	

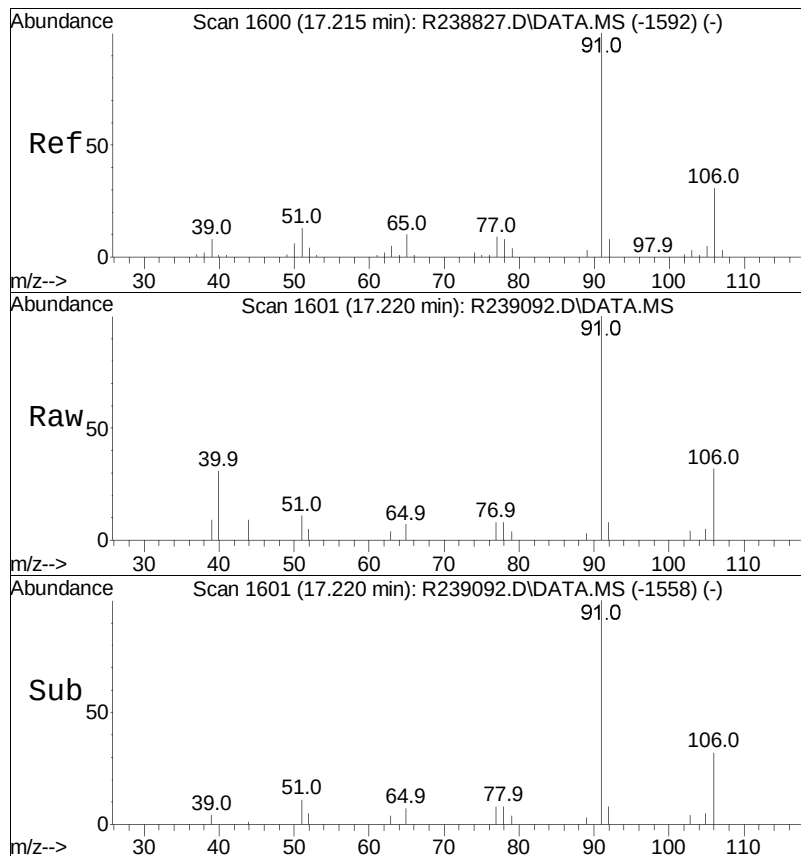




#68
toluene
Concen: 0.26 ppbV
RT: 15.33 min Scan# 1334
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

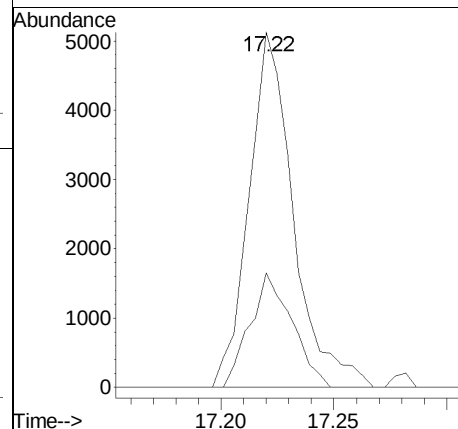
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	46.7	70.1

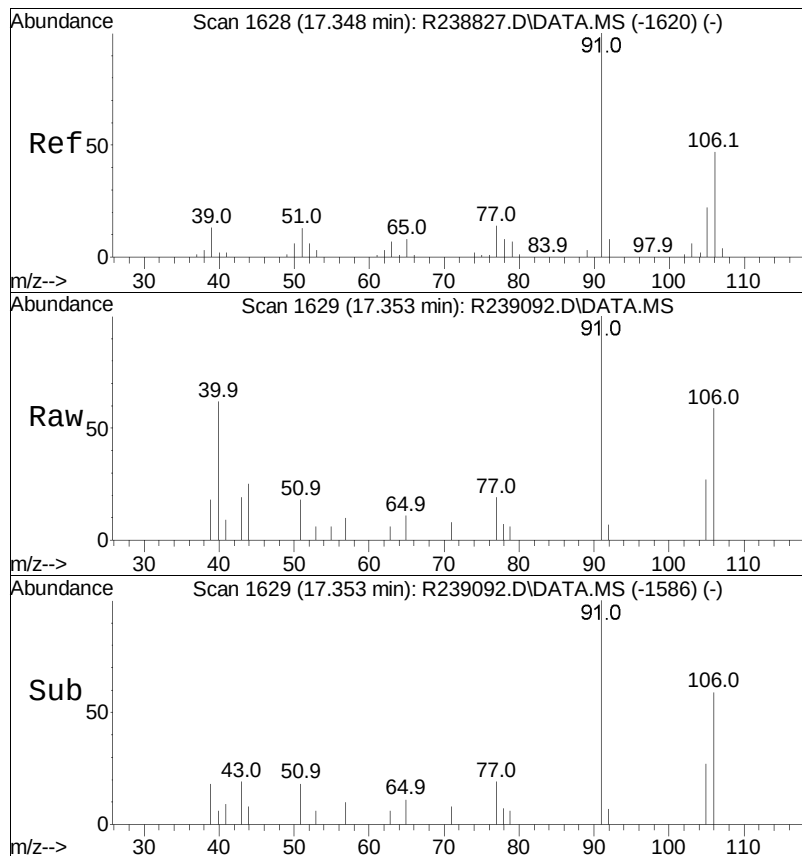




#81
ethylbenzene
Concen: 0.17 ppbV
RT: 17.22 min Scan# 1601
Delta R.T. 0.005 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

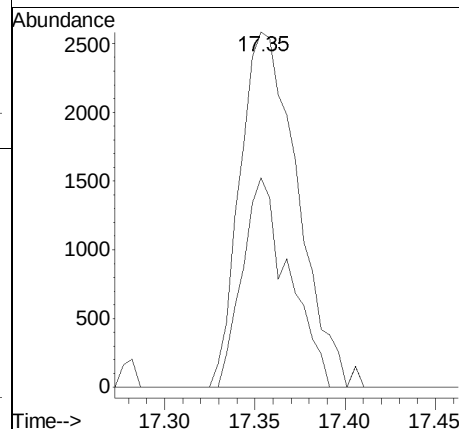
Tgt	Ion	Resp	Lower	Upper
91	100	7016		
106	32.2	24.5	36.7	

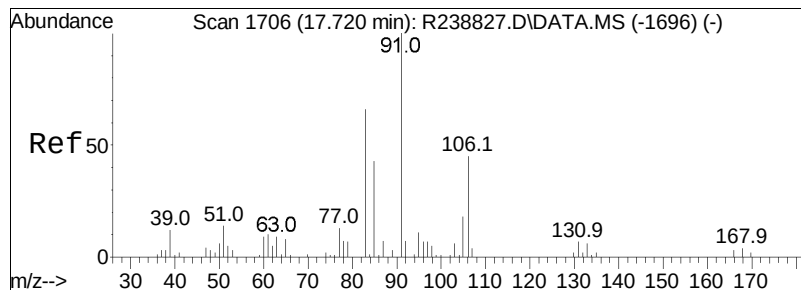




#83
 m+p-xylene
 Concen: 0.18 ppbV
 RT: 17.35 min Scan# 1629
 Delta R.T. 0.005 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

Tgt Ion:	91	Resp:	5738
Ion Ratio	Lower	Upper	
91	100		
106	58.9	37.7	56.5#





#87

o-xylene

Concen: 0.08 ppbV

RT: 17.72 min Scan# 1707

Delta R.T. 0.005 min

Lab File: R239092.D

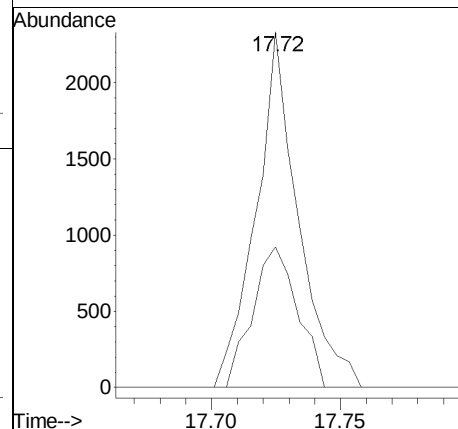
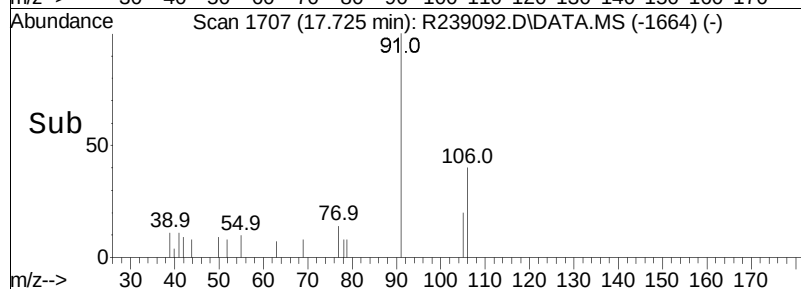
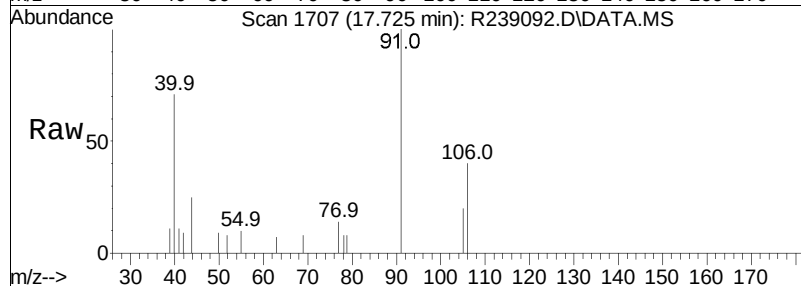
Acq: 19 Feb 2016 6:53 pm

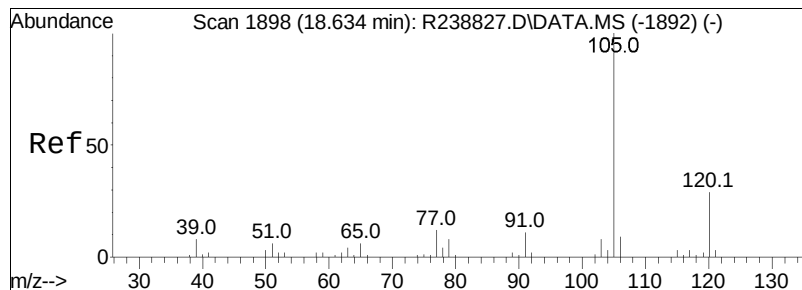
Tgt Ion: 91 Resp: 2662

Ion Ratio Lower Upper

91 100

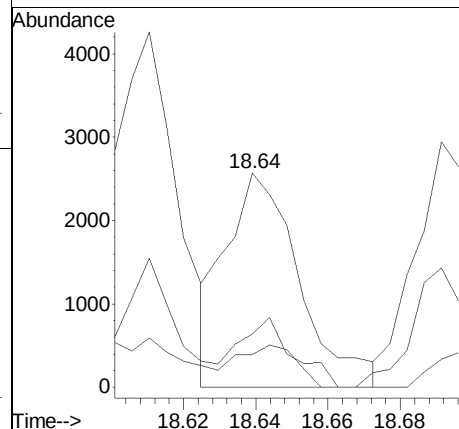
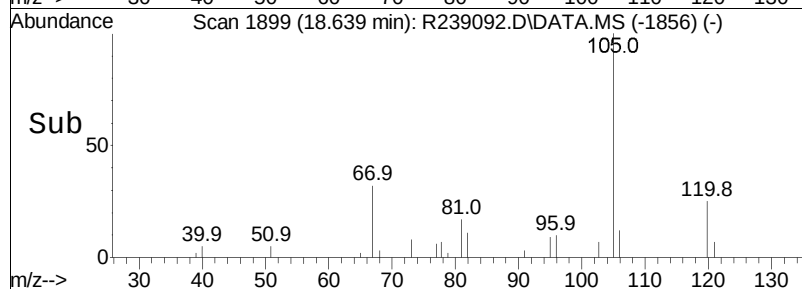
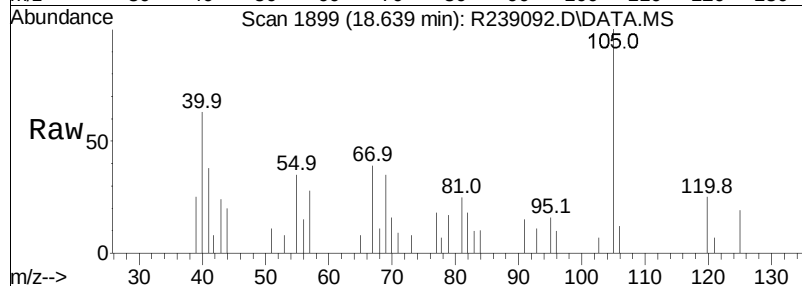
106 39.5 35.8 53.6

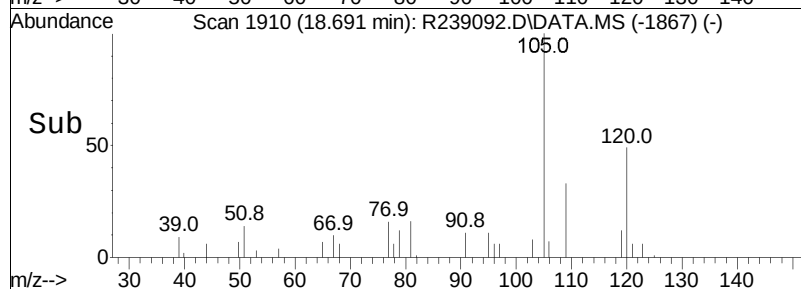
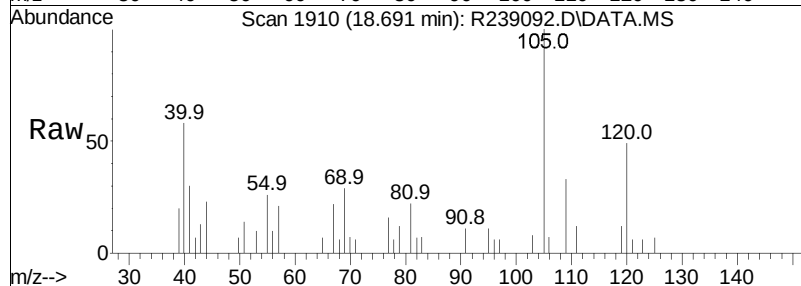
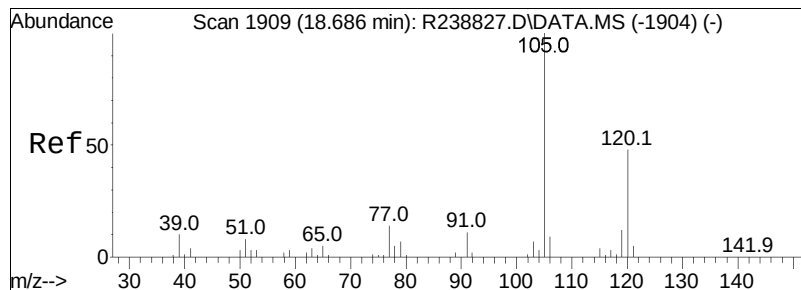




#96
 4-ethyl toluene
 Concen: 0.07 ppbV
 RT: 18.64 min Scan# 1899
 Delta R.T. 0.005 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

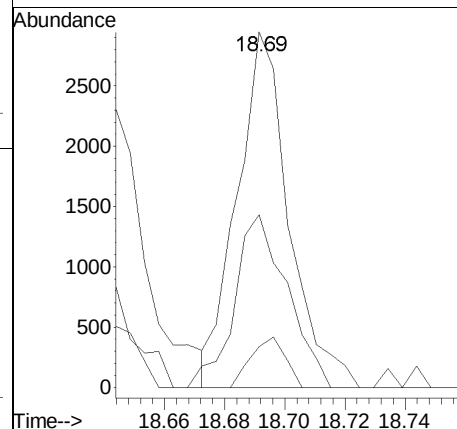
Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	23.4	35.0
91	15.4	9.5	14.3

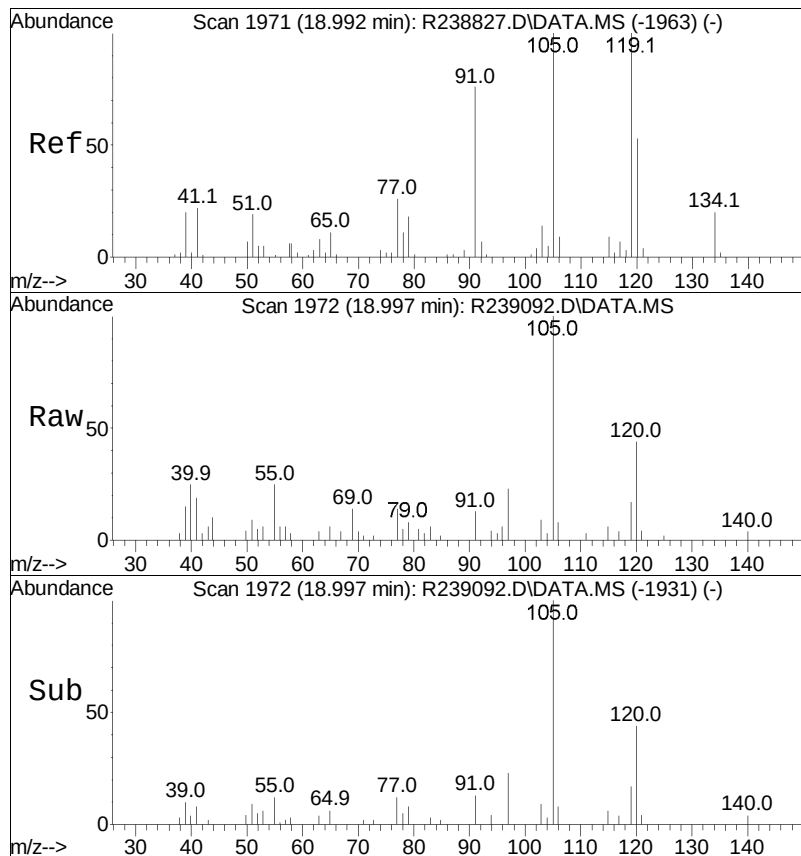




#97
 1,3,5-trimethylbenzene
 Concen: 0.09 ppbV
 RT: 18.69 min Scan# 1910
 Delta R.T. 0.005 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

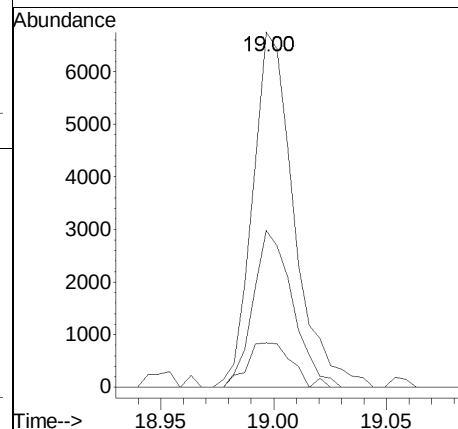
Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	37.8	56.6
91	11.5	8.7	13.1





#99
 1,2,4-trimethylbenzene
 Concen: 0.22 ppbV
 RT: 19.00 min Scan# 1972
 Delta R.T. 0.005 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

Tgt Ion	105	Ratio	Lower	Upper
105	100			
120	44.2	42.2	63.4	
91	12.5	61.1	91.7	



Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 22 2016, 10:49 am

Work Group: WG866471 for Department: 3 GC/MS

Created: 18-FEB-16 Due: Operator: AR

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1603836-01	SVE-01-21216	S T015-LL	SOIL_VAPOR	DONE	U	0313	0219	S0	Tedlar-Poly5
L1603979-01	SV-11	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1603979-02	SV-12	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1603979-03	SV-13	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1603979-04	SV-14	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1603979-05	SV-1	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1603987-01	SSV-1	S T015-LL	SOIL_VAPOR	DONE	U	0312	0219	S0	Can-2.7
L1604136-01	SSV08_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
L1604136-02	AS01_021416	S T015-LL	AIR	DONE	U	0315	0223	S0	Can-2.7
L1604136-03	AA01_021416	S T015-LL	AIR	DONE	U	0315	0223	S0	Can-2.7
L1604136-04	SV06_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
L1604136-05	SSV07_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
L1604136-06	DUP01_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
L1604136-07	SV04_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
L1604136-08	SSV05_021416	S T015-LL	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
WG866471-1	MS BFB Tune Standard	S T015-LL	SOIL_VAPOR	DONE	U				
WG866471-1	MS BFB Tune Standard	S T015-LL	AIR	DONE	U				
WG866471-2	Continuing Calibrati	S T015-LL	SOIL_VAPOR	DONE	U				
WG866471-2	Continuing Calibrati	S T015-LL	AIR	DONE	U				
WG866471-3	Laboratory Control S	S T015-LL	SOIL_VAPOR	DONE	U				
WG866471-3	Laboratory Control S	S T015-LL	AIR	DONE	U				
WG866471-4	Laboratory Method Bl	S T015-LL	SOIL_VAPOR	DONE	U				
WG866471-4	Laboratory Method Bl	S T015-LL	AIR	DONE	U				
WG866471-5	Duplicate Sample	S T015-LL	AIR	DONE	U				
WG866471-5	Duplicate Sample	S T015-LL	SOIL_VAPOR	DONE	U				
Comments:									
WG866471-5	L1604136-02								

-----SEQUENCE TABLE -----

Sequence Name: C:\Smart\160207TO15_ICAL.SEQ

Date: 02-09-2016

Time: 07:37:41

Int. Std Volume: 100 cc

Sample Name	Inlet	Auto	Samp	Cal	Std				
	#	Pos	Vol.	Vol.	Method	Time			
TA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD0.02	1	5	50	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD0.04	1	5	100	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD0.1	1	5	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD0.2	1	6	50	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD0.5	1	6	125	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD1.0	1	6	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD5.0	1	7	125	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD10.0	1	7	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD20.0	1	8	50	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD50.0	1	8	125	100	C:\Smart\Alpha-TO15.CTD	12:00			
ITO15-SIMSTD100.0	1	8	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
BA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
BA2020702	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha-TO15.CTD	12:00			
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha-TO15.CTD	12:00			

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: CSS15-024/CSS15-01

Date: 02/07/16

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: AR / MB

Sequence File Name: 160207.S

SIM ICAL#		Full Scan ICAL# 12008		TO-12 ICAL#	APH ICAL#		
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA2020701	TO15_SFS	R238819	250mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R238820	SS16-004D 50ML 0.02	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R238821	SS16-004D 100ML 0.04	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R238822	SS16-004D 250ML 0.1	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R238823	SS16-004C 50ML 0.2			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R238824	SS16-004C 125ML 0.5			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R238825	SS16-004C 250ML 1.0			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R238826	SS16-004B1 125ML 5.0			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R238827	SS16-004B1 250ML 10.0			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R238828	SS16-004A 50ML 20.0			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R238829	SS16-004A 125ML 50.0			NA
8	ITO15-LLSTD100.0	TO15_SFS	R238830	SS16-004A 250ML 100.0	FULL SCAN ONLY		NA
1	BA2020701	TO15_SFS	R238831	250ml			NA
		Pause					NA
1	BA2020702	TO15_SFS	R238832	250ml			NA
2	CTO15-LLSTD10	TO15_SFS	R238833	250ml SS15-040B 10.0	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R238834	125ml SS15-040B 5.0	SIM ICV		NA

[illegible]

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: CSS15-024/CSS15-001

Date: 02/19/16

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 160219.S

SIM ICAL# 12011

Full Scan ICAL# 12008

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	Leak Check Pass ? Y/N
1	TA2021901	TO15_SFS	R239085	250mL	TUNE		NA
2	CA2021901	TO15_SFS	R239086	SS16-002F 250ML 10.0	CC		NA
3	CTO15-LLSTD10	TO15_SFS	R239087	SS15-040C 250ML 10.0	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS	R239088	SS15-040C 125ML 5.0	SIM LCS		NA
1	BA2021901	TO15_SFS	R239089	250mL	BLANK		NA
1	BA2021902	TO15_SFS	R239090	250mL	DID NOT NEED		NA
1	L1604136-02,3,250,250	TO15_SFS	R239091	WG866471,ICAL12008		NY/ 7 SIM	Y
1	L1604136-02DUP,3,250,250	TO15_SFS	R239092	WG866471,ICAL12008	TO15-LL/ SIM DUP	NY/ 7 SIM	Y
2	L1604136-03,3,250,250	TO15_SFS	R239093	WG866471,ICAL12008		NY/ 7 SIM	Y
3	L1604136-01,3,250,250	TO15_SFS	R239094	WG866471,ICAL12008		NY	Y
4	L1604136-04D,3,25,250	TO15_SFS	R239095	WG866471,ICAL12008		NY	Y
5	L1604136-05,3,250,250	TO15_SFS	R239096	WG866471,ICAL12008		NY	Y
6	L1604136-06,3,250,250	TO15_SFS	R239097	WG866471,ICAL12008		NY	Y
7	L1604136-07,3,250,250	TO15_SFS	R239098	WG866471,ICAL12008		NY	Y
8	L1604136-08D,3,125,250	TO15_SFS	R239099	WG866471,ICAL12008	ETHYL ACETATE OVERCAL	NY	Y
9	L1603979-01,3,250,250	TO15_SFS	R239100	WG866471,ICAL12008		NY	Y
10	L1603979-02,3,250,250	TO15_SFS	R239101	WG866471,ICAL12008		NY	Y
11	L1603979-03,3,250,250	TO15_SFS	R239102	WG866471,ICAL12008	DCDFM AND PCE OVERCAL	NY	Y
12	L1603979-04,3,250,250	TO15_SFS	R239103	WG866471,ICAL12008		NY	Y
13	L1603979-05,3,250,250	TO15_SFS	R239104	WG866471,ICAL12008		NY	Y
14	L1603836-01,3,250,250	TO15_SFS	R239105	WG866471,ICAL12008	FAILED IS DUE TO INTERFERENCE	NY	Y

Alpha Analytical Air Lab Instrument Run Log

15	L1603987-01,3,250,250	TO15_SFS	R239106	WG866471,ICAL12008		NY	Y
16	L1603976-12D,3,12.5622,250	TO15_SFS	R239107	WG865352,ICAL12008	4M2P AND TOLUENE ONLY	NJ-TO15	Y
8	L1604136-08D2,3,50,250	TO15_SFS	R239108	WG866471,ICAL12008	ETHYL ACETATE ONLY	NY	Y
11	L1603979-03D,3,25,250	TO15_SFS	R239109	WG866471,ICAL12008	DCDFM AND PCE ONLY	NY	Y
14	L1603836-01D,3,50,250	TO15_SFS	R239110	WG866471,ICAL12008	PCE OVERCAL	NY	Y
14	L1603836-01D2,3,25,250	TO15_SFS	R239111	WG866471,ICAL12008	PCE STILL OVERCAL	NY	Y
14	L1603836-01D2,3,12.4454,250	TO15_SFS	R239112	WG866471,ICAL12008	PCE ONLY	NY	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicates Form 3

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Client Sample ID	: AS01_021416	Matrix	: AIR
Lab Sample ID	: L1604136-02	Analysis Date	: 02/19/16 18:18
Lab File ID	: R239091	DUP File ID	: R239092
Dup Sample ID	: WG866814-5	DUP Analysis Date	: 02/19/16 18:53

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.062	0.063	2	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.215	0.229	6	25

Laboratory Control Sample Form 3

Client : Langan Engineering & Environmental Lab Number : L1604136
 Project Name : 450 UNION STREET Project Number : 170301202
 Matrix : SOIL_VAPOR
 LCS Sample ID : WG866814-3 Analysis Date : 02/19/16 14:51 File ID : R239088
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	5	4.50	90				-	70-130	25
1,1-Dichloroethene	5	4.56	91				-	70-130	25
cis-1,2-Dichloroethene	5	5.12	102				-	70-130	25
1,1,1-Trichloroethane	5	4.34	87				-	70-130	25
Carbon tetrachloride	5	4.35	87				-	70-130	25
Trichloroethene	5	4.69	94				-	70-130	25
Tetrachloroethene	5	5.19	104				-	70-130	25



Method Blank Summary Form 4

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Lab Sample ID	: WG866814-4	Lab File ID	: R239089
Instrument ID	: AIRPIANO2		
Matrix	: AIR	Analysis Date	: 02/19/16 16:28

Client Sample No.	Lab Sample ID	Analysis Date
WG866814-3LCS	WG866814-3	02/19/16 14:51
AS01_021416	L1604136-02	02/19/16 18:18
AS01_021416DUP	WG866814-5	02/19/16 18:53
AA01_021416	L1604136-03	02/19/16 19:28
SV06_021416	L1604136-04D	02/19/16 20:34

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Langan Engineering & Environmental	Lab Number : L1604136
Project Name : 450 UNION STREET	Project Number : 170301202
Instrument ID : AIRPIANO2	Analysis Date : 02/07/16 21:26
Tune Standard : WG863731-1	Tune File ID : R238819_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	23.2
75	30.0 - 66.0% of mass 95	49.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	76.5
175	4.0 - 9.0% of mass 174	5.8 (7.6)1
176	93.0 - 101% of mass 174	73.3 (95.9)1
177	5.0 - 9.0% of mass 176	5 (6.9)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 0.02	R837179-1	R238820	02/07/16 21:59
STD 0.04	R837179-2	R238821	02/07/16 22:32
STD 0.1	R837179-3	R238822	02/07/16 23:07
STD 0.2	R837179-4	R238823	02/07/16 23:39
STD 0.5	R837179-5	R238824	02/08/16 00:13
STD 1.0	R837179-6	R238825	02/08/16 00:48
STD 5.0	R837179-7	R238826	02/08/16 01:22
STD 10.0	R837179-8	R238827	02/08/16 01:57
STD 20.0	R837179-9	R238828	02/08/16 02:30
STD 50.0	R837179-10	R238829	02/08/16 03:03
ICV Quant Report	R837179-11	R238834	02/08/16 09:05
ICV Summary Report	R837179-11	R238834	02/08/16 09:05

Instrument Performance Check

Bromofluorobenzene (BFB)

Form 5

Client : Langan Engineering & Environmental	Lab Number : L1604136
Project Name : 450 UNION STREET	Project Number : 170301202
Instrument ID : AIRPIANO2	Analysis Date : 02/19/16 13:04
Tune Standard : WG866814-1	Tune File ID : R239085_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	81.7
175	4.0 - 9.0% of mass 174	6 (7.4)1
176	93.0 - 101% of mass 174	80.7 (98.8)1
177	5.0 - 9.0% of mass 176	5.3 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG866814-2CCAL	WG866814-2	R239088	02/19/16 14:51
WG866814-3LCS	WG866814-3	R239088	02/19/16 14:51
WG866814-4BLANK	WG866814-4	R239089	02/19/16 16:28
AS01_021416	L1604136-02	R239091	02/19/16 18:18
WG866814-5DUP	WG866814-5	R239092	02/19/16 18:53
AA01_021416	L1604136-03	R239093	02/19/16 19:28
SV06_021416	L1604136-04D	R239095	02/19/16 20:34

Internal Standard Area and RT Summary Form 8

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Instrument ID	: AIRPIANO2	Analysis Date	: 02/19/16 14:51
Sample No	: WG866814-2	Lab File ID	: R239088

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG866814-2	169202	10.38	436800	12.54	89882	16.89
Upper Limit	236883	10.71	611520	12.87	125835	17.22
Lower Limit	101521	10.05	262080	12.21	53929	16.56
Sample ID						
WG866814-4 BLANK	163282	10.37	425096	12.54	83734	16.89
AS01_021416	168830	10.37	431769	12.54	86637	16.89
AS01_021416 DUP	159989	10.38	417537	12.54	82079	16.89
AA01_021416	166945	10.38	427906	12.54	85826	16.89
SV06_021416	165796	10.38	432217	12.54	88248	16.89

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

* Values outside of QC limits



Determination of Method Detection Limits

Alpha Analytical, Inc.

Mansfield, MA

Page 1 of 2

Analyst: AJ

Date: 5/7/2009

Instrument: Airpiano 2

Column ID: RTX-1

Method: TO-15SIM

2009

Approved

GC/MS

Toxic Organic Air Pollutants

	MDL Table	Data file	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	T-value used to calculate MDL value: 3.143						
		Date	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009						
		Analyte	Spike Conc.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Mean ppbv	Mean Accuracy	Std Dev	MDL ppbv	RL ppbv	Comments
			ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv						
1	dichlorodifluoromethane	0.02	0.022	0.02	0.023	0.023	0.023	0.02	0.021	0.022	109%	0.001	0.004	0.50		
2	chloromethane	0.0522	0.048	0.047	0.048	0.049	0.049	0.046	0.047	0.048	91%	0.001	0.003	0.05		
3	Freon-114	0.02	0.023	0.021	0.024	0.023	0.024	0.021	0.024	0.023	114%	0.001	0.004	0.02		
4	vinyl chloride	0.02	0.022	0.021	0.022	0.023	0.023	0.019	0.023	0.022	109%	0.001	0.005	0.02		
5	1,3-butadiene	0.02	0.023	0.022	0.023	0.024	0.023	0.02	0.022	0.022	112%	0.001	0.004	0.02		
6	bromomethane	0.02	0.026	0.023	0.023	0.024	0.025	0.021	0.023	0.024	118%	0.002	0.005	0.02		
7	chloroethane	0.02	0.023	0.025	0.024	0.022	0.024	0.022	0.023	0.023	116%	0.001	0.003	0.02		
8	acetone	0.6446	0.545	0.559	0.517	0.537	0.542	0.552	0.566	0.545	85%	0.016	0.050	2.00		
9	acrylonitrile	0.02	0.023	0.024	0.02	0.022	0.022	0.034	0.02	0.024	118%	0.005	0.015	0.50		
10	1,1-dichloroethene	0.02	0.02	0.019	0.021	0.022	0.021	0.019	0.02	0.020	101%	0.001	0.003	0.02		
11	methylene chloride	0.2	0.237	0.243	0.233	0.233	0.25	0.266	0.299	0.252	126%	0.024	0.075	0.50		
12	Freon 113	0.02	0.021	0.021	0.023	0.022	0.022	0.019	0.021	0.021	106%	0.001	0.004	0.05		
13	Halothane	0.02	0.019	0.019	0.016	0.016	0.017	0.017	0.019	0.018	88%	0.001	0.004	0.05		
14	trans-1,2-dichloroethene	0.02	0.018	0.017	0.019	0.019	0.019	0.017	0.017	0.018	90%	0.001	0.003	0.02		
15	1,1-dichloroethane	0.02	0.019	0.019	0.018	0.017	0.019	0.018	0.018	0.018	91%	0.001	0.002	0.02		
16	MTBE	0.02	0.016	0.017	0.017	0.018	0.018	0.017	0.015	0.017	84%	0.001	0.003	0.02		
17	2-butanone	0.02	0.024	0.025	0.025	0.024	0.025	0.025	0.023	0.024	122%	0.001	0.002	0.50		
18	cis-1,2-dichloroethene	0.02	0.017	0.017	0.017	0.018	0.018	0.016	0.017	0.017	86%	0.001	0.002	0.02		
19	chloroform	0.02	0.019	0.018	0.018	0.018	0.019	0.017	0.018	0.018	91%	0.001	0.002	0.02		
20	1,2-dichloroethane	0.02	0.016	0.015	0.016	0.017	0.017	0.014	0.016	0.016	79%	0.001	0.003	0.02		
21	1,1,1-trichloroethane	0.02	0.017	0.018	0.018	0.017	0.018	0.016	0.018	0.017	87%	0.001	0.002	0.02		
22	benzene	0.0989	0.08	0.069	0.082	0.073	0.084	0.069	0.076	0.076	77%	0.006	0.019	0.07		
23	carbon tetrachloride	0.02	0.015	0.014	0.016	0.016	0.016	0.014	0.015	0.015	76%	0.001	0.003	0.02		
24	1,2-dichloropropane	0.02	0.015	0.016	0.015	0.015	0.016	0.016	0.016	0.016	78%	0.001	0.002	0.02		
25	bromodichloromethane	0.02	0.016	0.016	0.016	0.015	0.016	0.014	0.016	0.016	78%	0.001	0.002	0.02		
26	trichloroethene	0.02	0.019	0.019	0.02	0.02	0.02	0.018	0.019	0.019	96%	0.001	0.002	0.02		
27	cis-1,3-dichloropropene	0.02	0.015	0.014	0.014	0.015	0.016	0.013	0.014	0.014	72%	0.001	0.003	0.50		
28	4-methyl-2-pentanone	0.02	0.015	0.017	0.017	0.015	0.016	0.014	0.015	0.016	78%	0.001	0.004	0.50		
29	trans-1,3-dichloropropene	0.02	0.014	0.014	0.013	0.014	0.015	0.014	0.014	0.014	70%	0.001	0.002	0.02		
30	1,1,2-trichloroethane	0.02	0.018	0.017	0.016	0.017	0.018	0.015	0.016	0.017	84%	0.001	0.003	0.02		
31	toluene	0.0454	0.035	0.036	0.035	0.035	0.032	0.032	0.032	0.034	75%	0.002	0.006	0.02		
32	dibromochloromethane	0.02	0.017	0.017	0.016	0.016	0.017	0.016	0.016	0.016	82%	0.001	0.002	0.02		
33	1,2-dibromoethane	0.02	0.018	0.018	0.017	0.018	0.019	0.017	0.017	0.018	89%	0.001	0.002	0.02		
34	tetrachloroethene	0.02	0.019	0.019	0.02	0.02	0.02	0.019	0.019	0.019	97%	0.001	0.002	0.02		
35	1,1,1,2-tetrachloroethane	0.02	0.018	0.017	0.019	0.018	0.018	0.017	0.016	0.018	88%	0.001	0.003	0.02		
36	chlorobenzene	0.02	0.018	0.018	0.02	0.019	0.019	0.018	0.018	0.019	93%	0.001	0.002	0.02		
37	ethylbenzene	0.02	0.019	0.019	0.019	0.019	0.019	0.018	0.017	0.019	93%	0.001	0.002	0.02		
38	m+p-xylene	0.04	0.033	0.034	0.033	0.034	0.034	0.033	0.031	0.033	83%	0.001	0.003	0.04		
39	bromoform	0.02	0.016	0.016	0.015	0.016	0.016	0.015	0.015	0.016	78%	0.001	0.002	0.02		
40	styrene	0.04	0.039	0.037	0.039	0.04	0.043	0.039	0.039	0.039	99%	0.002	0.006	0.02		
41	1,1,2,2-tetrachloroethane	0.02	0.018	0.019	0.018	0.018	0.019	0.019	0.018	0.018	92%	0.001	0.002	0.02		
42	o-xylene	0.02	0.016	0.017	0.016	0.017	0.017	0.017	0.015	0.016	82%	0.001	0.002	0.02		
43	isopropylbenzene	0.02	0.016	0.017	0.016	0.016	0.017	0.016	0.015	0.016	81%	0.001	0.002	0.02		

Determination of Method Detection Limits

Alpha Analytical, Inc.

Mansfield, MA

Approved

Page 2 of 2

Analyst: AJ

Date: 5/7/2009

Instrument: Airplane 2

Column ID: RTX-1

Method: TO-15SIM

2009

GC/MS

Toxic Organic Air Pollutants

	MDL Table	Data file	MDL1	MDL2	MDL3	MDL4	MDL5	MDL6	MDL7	T-value used to calculate MDL value: 3.143						Comments
		Date	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	5/7/2009	Mean ppbv	Mean Accuracy	Std Dev	MDL ppbv			
		Analyte	Spike Conc.	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6					Rep 7		
															ppbv	
44	4-ethyl toluene	0.02	0.016	0.016	0.016	0.017	0.017	0.017	0.015	0.016	81%	0.001	0.002	0.02		
45	1,3,5-trimethylbenzene	0.02	0.016	0.017	0.016	0.017	0.017	0.017	0.015	0.016	82%	0.001	0.002	0.02		
46	1,2,4-trimethylbenzene	0.02	0.017	0.017	0.017	0.018	0.018	0.017	0.016	0.017	86%	0.001	0.002	0.02		
47	1,3-dichlorobenzene	0.02	0.02	0.02	0.02	0.021	0.021	0.02	0.019	0.020	101%	0.001	0.002	0.02		
48	1,4-dichlorobenzene	0.02	0.019	0.02	0.02	0.021	0.021	0.02	0.02	0.020	101%	0.001	0.002	0.02		
49	sec-butylbenzene	0.02	0.013	0.015	0.013	0.014	0.014	0.014	0.013	0.014	69%	0.001	0.002	0.02		
50	p-isopropyltoluene	0.02	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.014	69%	0.001	0.002	0.5		
51	1,2-dichlorobenzene	0.02	0.019	0.019	0.02	0.021	0.02	0.02	0.018	0.020	98%	0.001	0.003	0.5		
52	n-butylbenzene	0.02	0.014	0.014	0.014	0.016	0.015	0.014	0.013	0.014	71%	0.001	0.003	0.05		
53	1,2,4-trichlorobenzene	0.0377	0.026	0.027	0.027	0.027	0.027	0.029	0.026	0.027	72%	0.001	0.003	0.05		
54	naphthalene	0.02	0.019	0.019	0.019	0.02	0.018	0.018	0.017	0.019	93%	0.001	0.003	0.05		
55	1,2,3-Trichlorobenzene	0.02	0.017	0.017	0.018	0.018	0.017	0.016	0.015	0.017	84%	0.001	0.003	0.05		
56	hexachlorobutadiene	0.02	0.02	0.021	0.022	0.022	0.021	0.022	0.021	0.021	106%	0.001	0.002	0.02		
	Surrogates															
1	1,2-dichloroethane-D4	10	9.735	10.013	8.91	8.508	9.249	9.857	10.249	9.503	95%					
2	toluene-D8	10	10.737	11.118	9.698	9.603	9.935	10.831	10.892	10.402	104%					
3	bromofluorobenzene	10	9.58	10.042	8.583	8.764	9.176	9.876	9.917	9.420	94%					

Comments:

NO- Trichlorofluoromethane

Volatiles Sample Data

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-02
 Client ID : AS01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R239091
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:18
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.062	0.020	--	0.390	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.215	0.020	--	1.46	0.136	--	

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-03
 Client ID : AA01_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R239093
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:22
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 19:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.061	0.020	--	0.384	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : L1604136-04D
 Client ID : SV06_021416
 Sample Location : 450 UNION STREET, BROOKLY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R239095
 Sample Amount : 25.0 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 10:33
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 20:34
 Dilution Factor : 10
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866814-4
 Client ID : WG866814-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R239089
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 02/19/16 16:28
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Form 1

Volatile Organics

Client : Langan Engineering & Environmental
 Project Name : 450 UNION STREET
 Lab ID : WG866814-5
 Client ID : AS01_021416DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R239092
 Sample Amount : 250 ml

Lab Number : L1604136
 Project Number : 170301202
 Date Collected : 02/14/16 17:00
 Date Received : 02/16/16
 Date Analyzed : 02/19/16 18:53
 Dilution Factor : 1
 Analyst : RY
 Instrument ID : AIRPIANO2
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.229	0.020	--	1.55	0.136	--	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239091.D
 Acq On : 19 Feb 2016 6:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-02,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:08:13 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.37	49	168830	10.000	ppbV	0.00
Standard Area = 169202			Recovery =		99.78%	
33) 1,4-difluorobenzene	12.54	114	431769	10.000	ppbV	0.00
Standard Area = 436800			Recovery =		98.85%	
51) chlorobenzene-D5	16.89	54	86637	10.000	ppbV	0.00
Standard Area = 89882			Recovery =		96.39%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.96	62	183	0.016	ppbV	95
16) 1,1-dichloroethene	0.00		0	N.D.	d	
28) cis-1,2-dichloroethene	10.18	61	267	0.015	ppbV	97
36) 1,1,1-trichloroethane	11.63		0	N.D.		
38) carbon tetrachloride	12.32	117	1957	0.062	ppbV	97
44) trichloroethene	13.33		0	N.D.		
57) tetrachloroethene	16.36	166	5615	0.215	ppbV	96

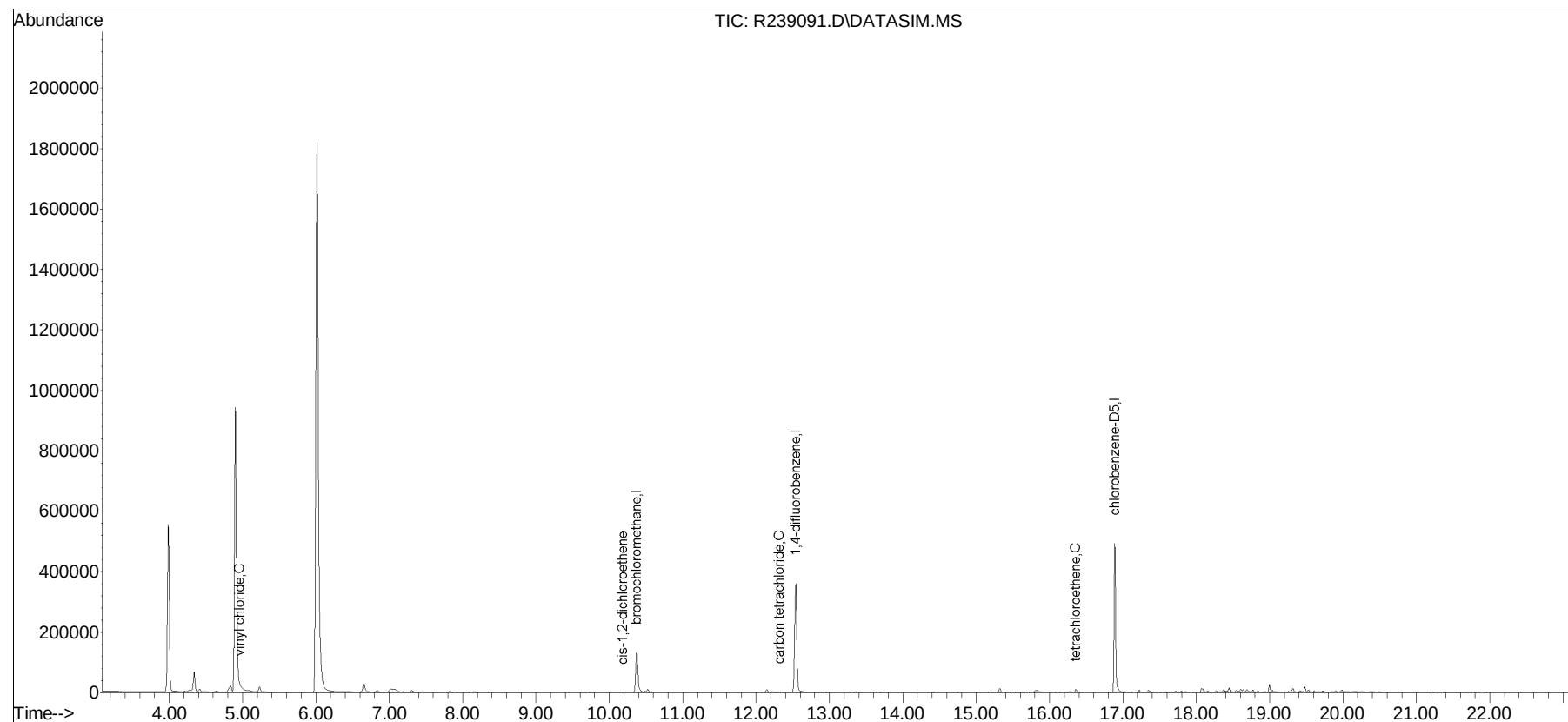
(#) = qualifier out of range (m) = manual integration (+) = signals summed

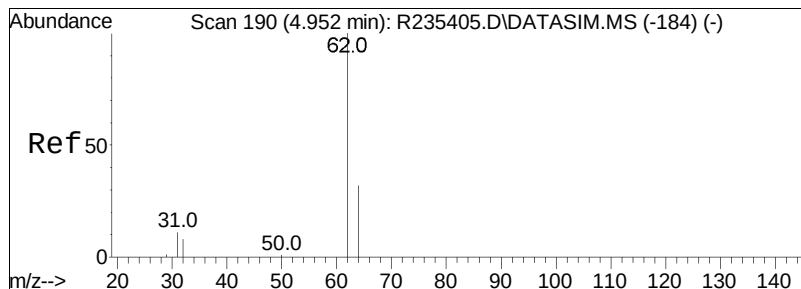
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239091.D
 Acq On : 19 Feb 2016 6:18 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-02,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:08:13 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

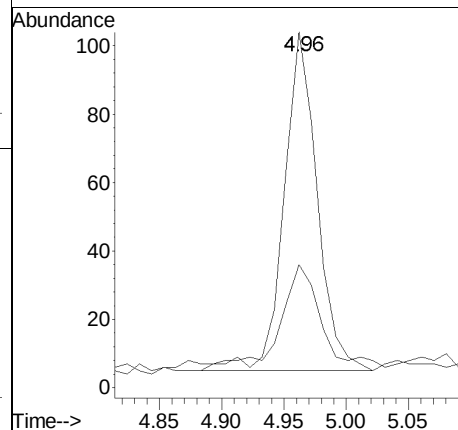
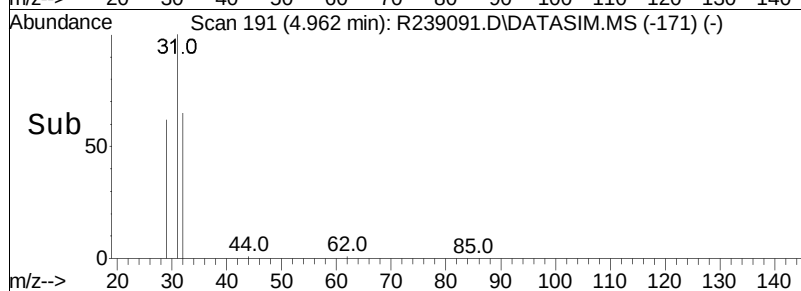
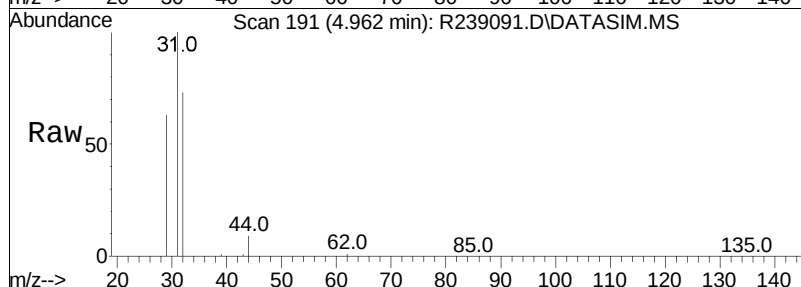
Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D

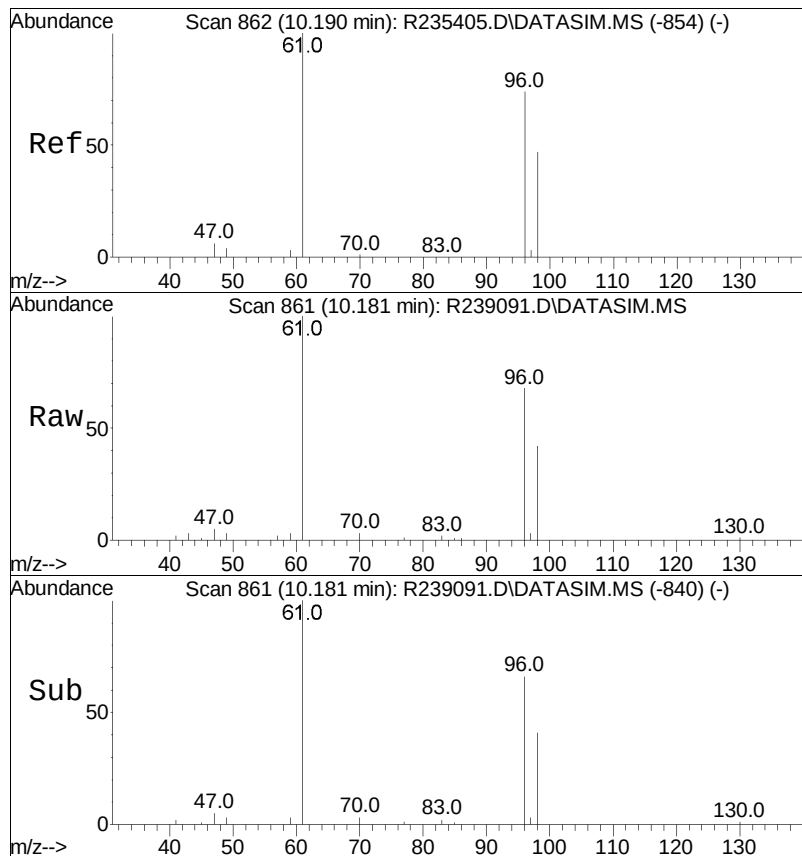




#6
vinyl chloride
Concen: 0.02 ppbV
RT: 4.96 min Scan# 191
Delta R.T. -0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

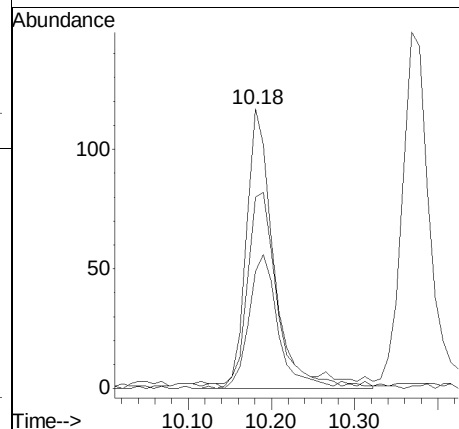
Tgt Ion: 62 Resp: 183
Ion Ratio Lower Upper
62 100
64 34.6 25.5 38.3

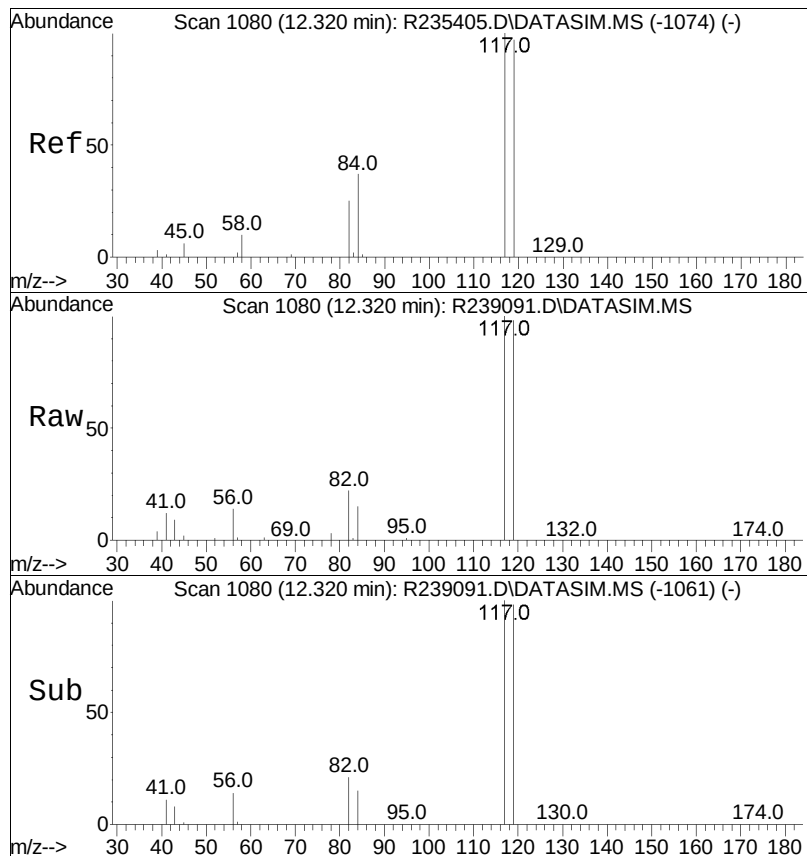




#28
 cis-1,2-dichloroethene
 Concen: 0.01 ppbV
 RT: 10.18 min Scan# 861
 Delta R.T. -0.010 min
 Lab File: R239091.D
 Acq: 19 Feb 2016 6:18 pm

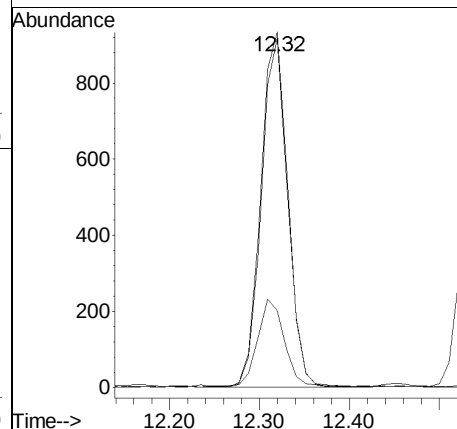
Tgt Ion:	61	Resp:	267
Ion Ratio	Lower	Upper	
61	100		
96	68.4	55.8	83.8
98	41.9	36.1	54.1

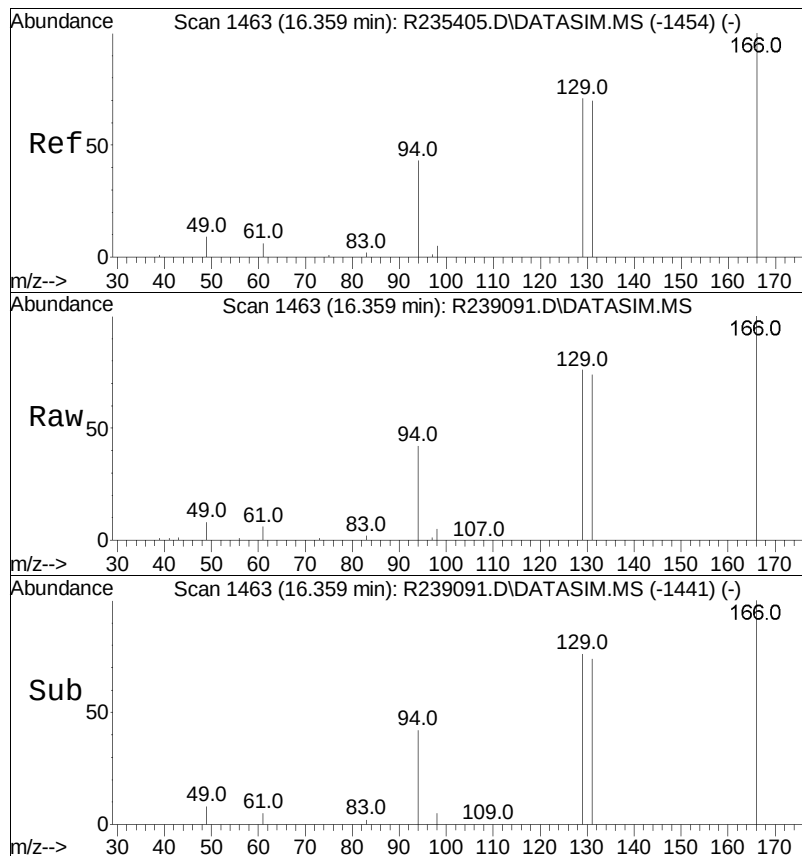




#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 12.32 min Scan# 1080
Delta R.T. -0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

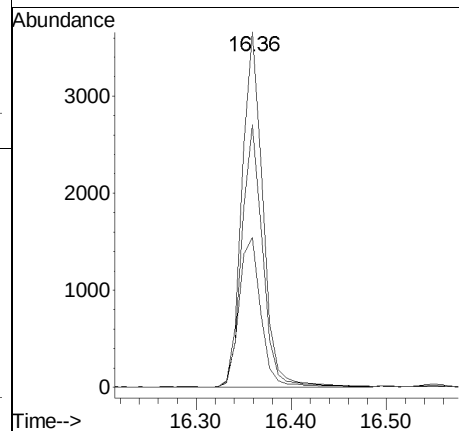
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.3	76.6	114.8
82	21.6	19.3	28.9





#57
tetrachloroethene
Concen: 0.21 ppbV
RT: 16.36 min Scan# 1463
Delta R.T. -0.000 min
Lab File: R239091.D
Acq: 19 Feb 2016 6:18 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	73.8	60.2	90.2
94	42.2	37.3	55.9



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2016Q	Method	: TSIM160207.M
Data File	: R239091.D	Operator	: AIRPIAN02:RY
Date Inj'd	: 2/19/2016 6:18 pm	Instrument	: Air Piano 2
Sample	: L1604136-02,3,250,250	Quant Date	: 2/19/2016 11:36 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239093.D
 Acq On : 19 Feb 2016 7:28 pm
 Operator : AIRPIAN02:RY
 Sample : L1604136-03,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 23:36:35 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.38	49	166945	10.000	ppbV	0.00
Standard Area = 169202			Recovery =		98.67%	
33) 1,4-difluorobenzene	12.54	114	427906	10.000	ppbV	0.00
Standard Area = 436800			Recovery =		97.96%	
51) chlorobenzene-D5	16.89	54	85826	10.000	ppbV	0.00
Standard Area = 89882			Recovery =		95.49%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.96		0		N.D.	
16) 1,1-dichloroethene	7.65		0		N.D.	
28) cis-1,2-dichloroethene	10.20		0		N.D.	
36) 1,1,1-trichloroethane	11.64		0		N.D.	
38) carbon tetrachloride	12.32	117	1890	0.061	ppbV	99
44) trichloroethene	13.34		0		N.D.	
57) tetrachloroethene	16.37		0		N.D.	

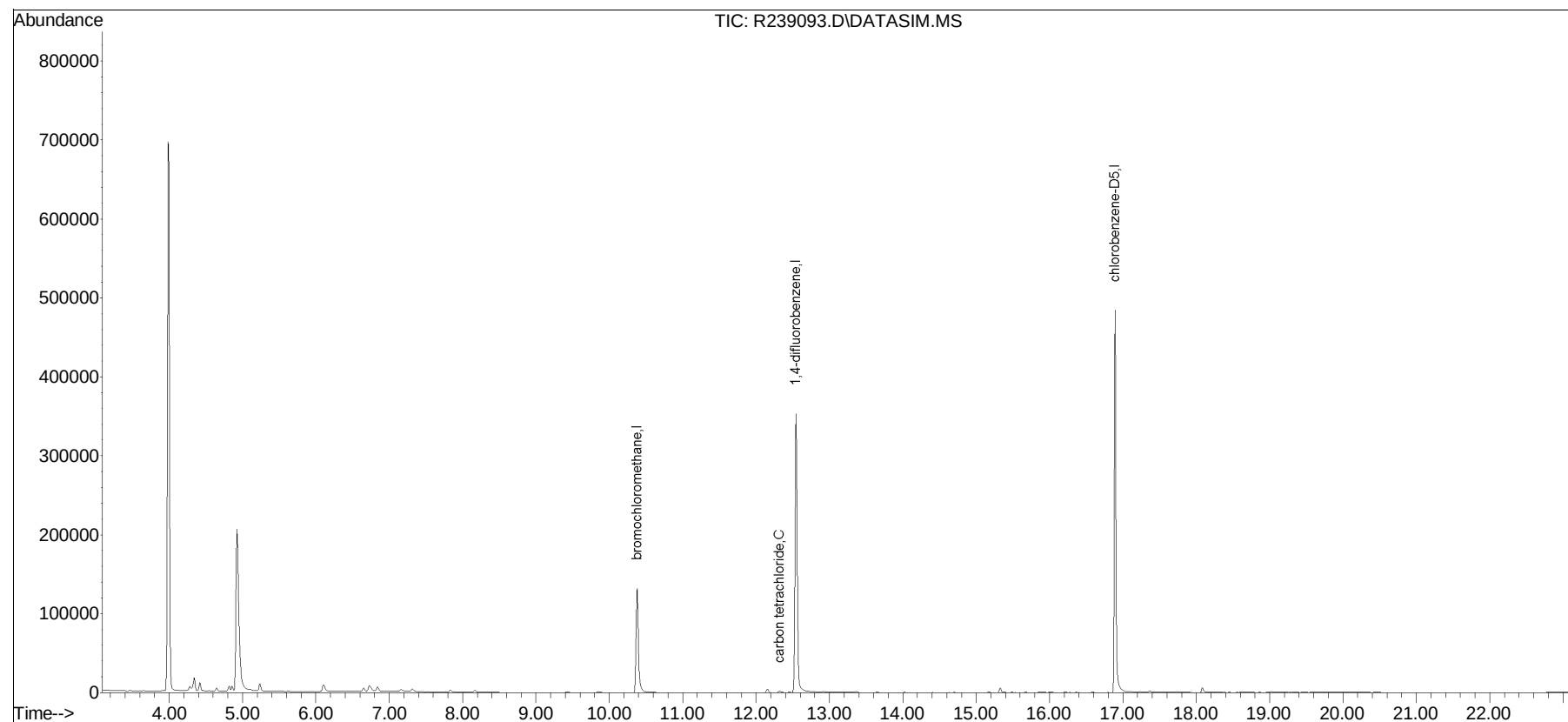
(#) = qualifier out of range (m) = manual integration (+) = signals summed

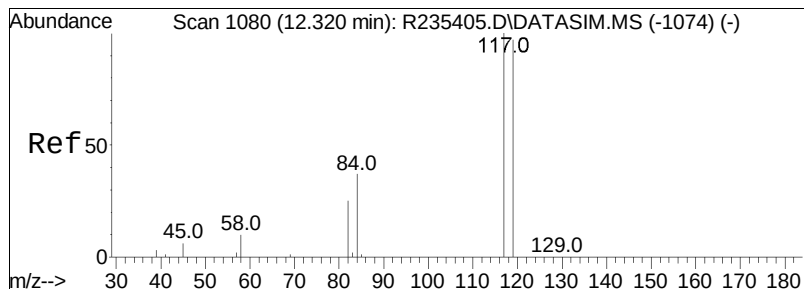
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
Data File : R239093.D
Acq On : 19 Feb 2016 7:28 pm
Operator : AIRPIAN02:RY
Sample : L1604136-03,3,250,250
Misc : WG866814,ICAL12011
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 19 23:36:35 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration

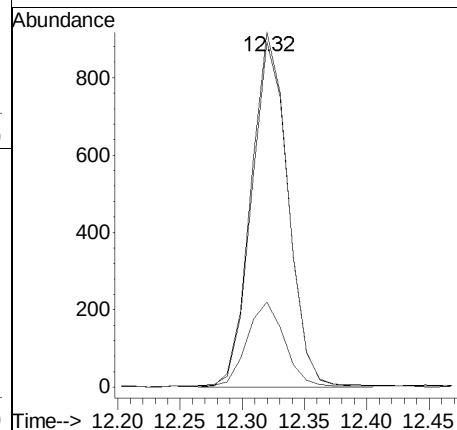
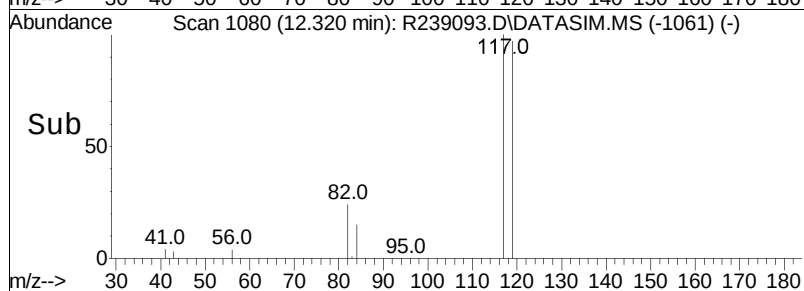
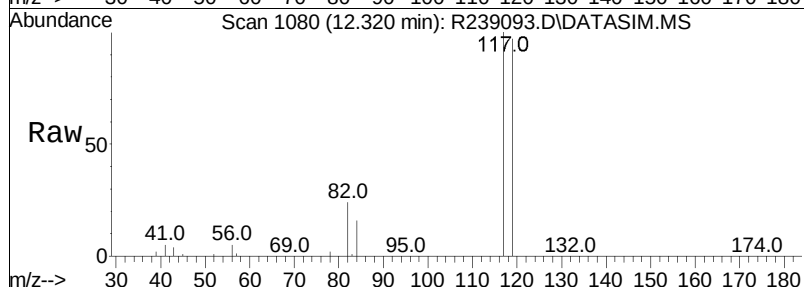
Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D





#38
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 12.32 min Scan# 1080
 Delta R.T. -0.000 min
 Lab File: R239093.D
 Acq: 19 Feb 2016 7:28 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1890		
119	97.3	76.6	114.8	
82	24.0	19.3	28.9	



Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R239093.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 7:28 pm Instrument : Air Piano 2
Sample : L1604136-03,3,250,250 Quant Date : 2/19/2016 11:36 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239095.D
 Acq On : 19 Feb 2016 8:34 pm
 Operator : AIRPIAN02:MB
 Sample : L1604136-04D, 3, 25, 250
 Misc : WG866814, ICAL12011
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 22 09:56:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.378	49	165796	10.000	ppbV	0.00
Standard Area = 169202			Recovery =		97.99%	
33) 1,4-difluorobenzene	12.543	114	432217	10.000	ppbV	0.00
Standard Area = 436800			Recovery =		98.95%	
51) chlorobenzene-D5	16.888	54	88248	10.000	ppbV	0.00
Standard Area = 89882			Recovery =		98.18%	

System Monitoring Compounds

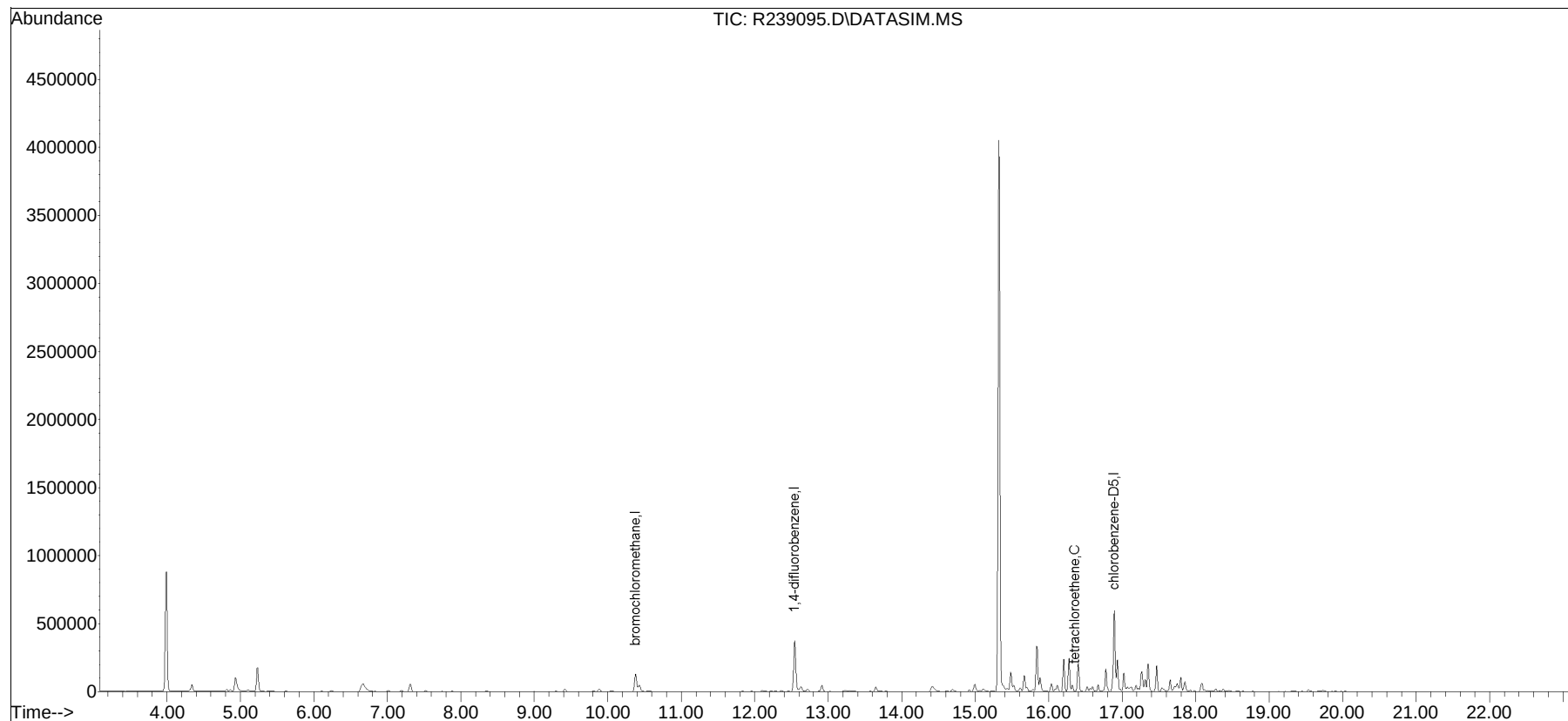
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.962		0		N.D.	
16) 1,1-dichloroethene	7.686		0		N.D.	
28) cis-1,2-dichloroethene	10.171		0		N.D.	
36) 1,1,1-trichloroethane	11.640		0		N.D.	
38) carbon tetrachloride	12.320		0		N.D.	
44) trichloroethene	13.339		0		N.D.	
57) tetrachloroethene	16.359	166	403	0.015	ppbV	97

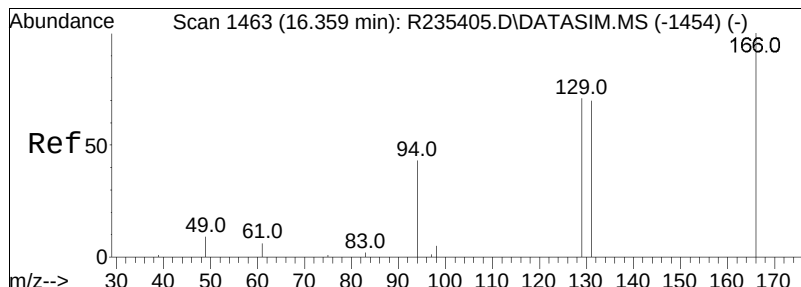
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
Data File : R239095.D
Acq On : 19 Feb 2016 8:34 pm
Operator : AIRPIAN02:MB
Sample : L1604136-04D,3,25,250
Misc : WG866814,ICAL12011
ALS Vial : 4 Sample Multiplier: 1

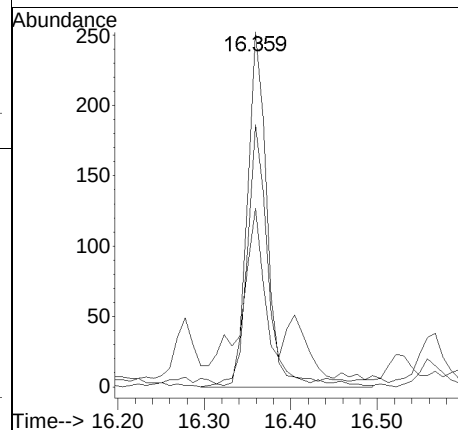
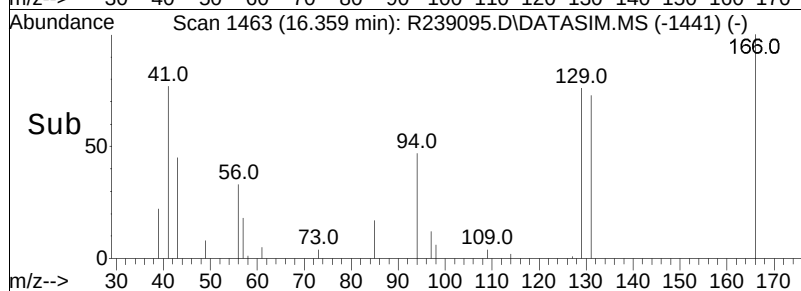
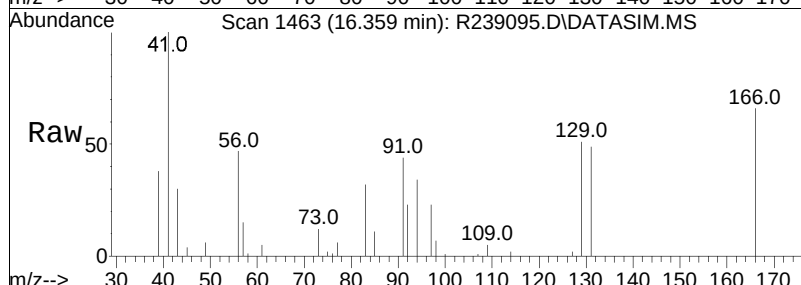
Quant Time: Feb 22 09:56:47 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration





#57
 tetrachloroethene
 Concen: 0.02 ppbV
 RT: 16.359 min Scan# 1463
 Delta R.T. -0.000 min
 Lab File: R239095.D
 Acq: 19 Feb 2016 8:34 pm

Tgt Ion:	166	Resp:	403
Ion Ratio	Lower	Upper	
166	100		
131	73.8	60.2	90.2
94	50.4	37.3	55.9



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2016Q	Method	: TSIM160207.M
Data File	: R239095.D	Operator	: AIRPIAN02:MB
Date Inj'd	: 2/19/2016 8:34 pm	Instrument	: Air Piano 2
Sample	: L1604136-04D,3,25,250	Quant Date	: 2/22/2016 9:56 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental
Project Name : 450 UNION STREET
Instrument ID : AIRPIANO2
Calibration dates : 02/07/16 21:59 02/08/16 03:03
Lab Number : L1604136
Project Number : 170301202
Ical Ref : ICAL12011

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I	bromochloromethane	-----ISTD-----											
2)	propylene	1.236	0.859	0.812	0.722	0.709	0.589	0.574	0.609	0.543	0.7392	29.20	
3)	dichlorodifluoromethane	1.377	1.355	1.484	1.541	1.402	1.367	1.313	1.343	1.065	1.3608	9.70	
4) C	chloromethane	0.809	0.718	0.777	0.780	0.768	0.638	0.618	0.642	0.587	0.7041	11.87	
5)	Freon-114	1.820	1.830	1.758	2.079	2.052	2.001	1.705	1.639	1.678	1.459	1.8021	10.96
6) C	vinyl chloride	0.709	0.694	0.652	0.773	0.789	0.765	0.644	0.628	0.652	0.600	0.6906	9.61
7) C	1,3-butadiene	0.519	0.458	0.487	0.592	0.572	0.568	0.477	0.458	0.483	0.438	0.5052	10.76
8) C	bromomethane	0.750	0.626	0.580	0.655	0.642	0.658	0.557	0.546	0.554	0.522	0.6091	11.46
9) C	chloroethane	0.392	0.348	0.287	0.355	0.354	0.355	0.303	0.296	0.301	0.278	0.3269	11.71
10)	ethanol					0.625	0.622	0.535	0.504	0.531	0.482	0.5499	10.91
11) C	vinyl bromide	0.613	0.546	0.549	0.690	0.676	0.671	0.572	0.555	0.573	0.524	0.5969	10.23
12)	acetone		1.131	1.305	1.269	1.247	1.063	1.035	1.053	0.926	1.1286	11.83	
13)	trichlorofluoromethane	1.674	1.707	1.598	1.954	1.918	1.907	1.600	1.559	1.613	1.454	1.6986	10.08
14)	isopropyl alcohol			1.454	1.397	1.386	1.170	1.126	1.163	1.047	1.2489	12.75	
15) C	acrylonitrile	0.631	0.576	0.519	0.588	0.579	0.584	0.495	0.459	0.482	0.447	0.5360	11.81
16) C	1,1-dichloroethene	1.334	1.244	1.211	1.435	1.425	1.416	1.180	1.149	1.183	1.087	1.2664	10.02
17)	tertiary butyl alcohol	1.983	1.726	1.670	1.742	1.715	1.697	1.419	1.373	1.436	1.331	1.6092	13.00
18) C	methylene chloride				1.175	1.133	0.935	0.910	0.937	0.869	0.9931	12.85	
19) C	3-chloropropene	1.589	1.539	1.373	1.394	1.232	1.188	1.002	0.980	1.025	0.954	1.2278	19.31
20) C	carbon disulfide	2.186	2.014	2.403	2.315	2.299	1.955	1.931	1.988	1.836	2.1030	9.57	
21)	Freon 113	1.547	1.467	1.383	1.683	1.656	1.646	1.382	1.354	1.384	1.253	1.4756	10.10
22)	Halothane	1.212	1.113	1.069	1.321	1.285	1.287	1.081	1.065	1.104	1.007	1.1544	9.68
23)	trans-1,2-dichloroethene	1.202	1.130	1.117	1.365	1.339	1.337	1.138	1.115	1.154	1.060	1.1957	9.23
24) C	1,1-dichloroethane	1.389	1.336	1.302	1.579	1.548	1.544	1.305	1.273	1.313	1.201	1.3790	9.55
25) C	MTBE	1.853	1.833	1.743	2.150	2.117	2.135	1.795	1.752	1.809	1.657	1.8846	9.59
26) C	vinyl acetate		1.289	1.471	1.601	1.657	1.484	1.611	1.810	1.773	1.5870	10.71	
27) C	2-butanone	1.703	1.574	1.925	1.914	1.951	1.681	1.681	1.753	1.618	1.7557	7.99	
28)	cis-1,2-dichloroethene	1.075	1.064	1.019	1.239	1.203	1.199	1.019	1.000	1.030	0.942	1.0790	9.29
29)	Ethyl Acetate			0.285	0.191	0.248	0.210	0.217	0.232	0.216	0.2284	13.35	
30) C	chloroform	1.516	1.542	1.448	1.769	1.725	1.719	1.448	1.420	1.457	1.304	1.5348	10.03
31)	Tetrahydrofuran	0.952	0.937	1.096	1.047	1.070	0.864	0.880	0.942	0.852	0.9600	9.49	
32) C	1,2-dichloroethane	1.085	1.086	1.023	1.220	1.214	1.217	1.033	1.011	1.048	0.955	1.0892	8.80
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane	0.573	0.512	0.470	0.548	0.540	0.533	0.444	0.444	0.461	0.422	0.4947	10.62
35) s	1,2-dichloroethane-D4	0.268	0.274	0.270	0.266	0.270	0.277	0.262	0.266	0.268	0.266	0.2688	1.62
36) C	1,1,1-trichloroethane	0.695	0.690	0.654	0.752	0.761	0.745	0.628	0.621	0.656	0.613	0.6816	8.21
37) C	benzene	1.091	0.923	1.068	1.014	1.014	0.844	0.837	0.872	0.815	0.9420	11.29	
38) C	carbon tetrachloride	0.743	0.704	0.687	0.824	0.803	0.807	0.685	0.672	0.699	0.654	0.7277	8.55
39)	cyclohexane	0.584	0.575	0.520	0.600	0.576	0.572	0.482	0.469	0.493	0.464	0.5336	9.94
40)	dibromomethane	0.573	0.439	0.398	0.451	0.445	0.442	0.373	0.369	0.385	0.362	0.4238	14.78

Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental
Project Name : 450 UNION STREET
Instrument ID : AIRPIANO2
Calibration dates : 02/07/16 21:59 02/08/16 03:03
Lab Number : L1604136
Project Number : 170301202
Ical Ref : ICAL12011

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
41) C 1,2-dichloropropane	0.348	0.357	0.340	0.406	0.405	0.407	0.347	0.344	0.360	0.342	0.3657	7.85
42) bromodichloromethane	0.760	0.758	0.705	0.830	0.854	0.825	0.709	0.728	0.765	0.704	0.7638	7.28
43) C 1,4-dioxane			0.187	0.228	0.222	0.221	0.195	0.191	0.202	0.194	0.2049	7.92
44) C trichloroethene	0.441	0.435	0.409	0.484	0.485	0.491	0.412	0.402	0.412	0.379	0.4351	9.04
45) C 2,2,4-trimethylpentane	1.701	1.580	1.526	1.776	1.744	1.792	1.514	1.489	1.539	1.424	1.6085	8.23
46) heptane		0.646	0.646	0.745	0.735	0.736	0.626	0.629	0.646	0.613	0.6692	7.99
47) C cis-1,3-dichloropropene	1.702	1.677	1.852	2.199	2.074	2.077	1.846	2.014	2.078	2.003	1.9522	8.93
48) C 4-methyl-2-pentanone	0.854	0.880	0.846	1.040	0.999	1.054	0.911	0.914	0.936	0.889	0.9322	7.98
49) trans-1,3-dichloropropene	0.587	0.602	0.587	0.726	0.725	0.734	0.640	0.661	0.696	0.681	0.6640	8.71
50) C 1,1,2-trichloroethane	0.467	0.472	0.477	0.567	0.557	0.560	0.471	0.473	0.488	0.463	0.4996	8.65
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene		7.386	6.596	7.944	7.724	7.583	6.541	6.477	6.585	6.011	6.9830	9.74
53) s toluene-D8	4.422	4.458	4.326	4.433	4.420	4.518	4.404	4.452	4.435	4.421	4.4290	1.08
54) 2-hexanone		3.189	3.306	4.842	5.496	5.495	5.205	5.308	5.440	5.090	4.8188	19.01
55) dibromochloromethane	4.177	4.016	3.750	4.708	4.581	4.562	4.009	4.006	4.185	3.884	4.1878	7.73
56) C 1,2-dibromoethane	3.302	3.208	3.169	3.977	3.860	3.833	3.380	3.420	3.514	3.262	3.4926	8.42
57) C tetrachloroethene	3.045	2.927	2.769	3.452	3.362	3.344	2.870	2.823	2.895	2.663	3.0151	9.15
58) 1,1,1,2-tetrachloroethane	2.368	2.302	2.132	2.622	2.555	2.569	2.214	2.175	2.245	2.003	2.3184	8.92
59) C chlorobenzene	4.162	3.819	3.853	4.771	4.638	4.631	3.958	3.900	4.001	3.580	4.1314	9.87
60) C ethylbenzene	6.125	6.101	5.837	7.119	7.002	6.996	6.049	5.942	6.084	5.467	6.2722	8.99
61) C m+p-xylene	4.714	4.581	4.383	5.543	5.471	5.512	4.722	4.643	4.747	4.193	4.8508	9.99
62) C bromoform	2.838	2.924	2.752	3.466	3.467	3.457	3.064	3.059	3.211	2.928	3.1166	8.68
63) C styrene	3.604	3.433	3.221	4.078	4.081	4.102	3.643	3.597	3.734	3.343	3.6835	8.58
64) C 1,1,2,2-tetrachloroethane	3.634	3.769	3.613	4.487	4.331	4.303	3.781	3.755	3.849	3.408	3.8929	9.16
65) C o-xylene	5.206	5.099	4.787	5.903	5.710	5.679	4.879	4.784	4.856	4.107	5.1011	10.65
66) 1,2,3-trichloropropane	3.050	2.999	2.734	3.525	3.426	3.438	3.033	2.968	3.081	2.828	3.1083	8.60
67) s bromofluorobenzene	2.378	2.403	2.392	2.380	2.407	2.447	2.416	2.424	2.450	2.438	2.4136	1.08
68) C isopropylbenzene	6.812	6.494	6.265	7.770	7.549	7.549	6.497	6.360	6.410	5.595	6.7300	10.25
69) bromobenzene	3.752	3.535	3.508	4.313	4.206	4.199	3.666	3.616	3.749	3.444	3.7986	8.44
70) 4-ethyl toluene	6.827	6.066	6.109	7.963	7.929	8.123	7.116	7.017	7.111	6.125	7.0385	11.13
71) 1,3,5-trimethylbenzene	6.891	6.148	5.643	7.195	7.004	6.852	5.907	5.793	5.865	4.944	6.2242	11.72
72) tert-butylbenzene	5.744	5.919	5.766	7.041	6.882	6.845	5.893	5.604	5.475	4.463	5.9633	13.10
73) 1,2,4-trimethylbenzene	5.344	5.069	5.256	6.740	6.625	6.661	5.846	5.630	5.567	4.546	5.7285	12.95
74) C Benzyl Chloride				5.301	5.491	5.737	5.477	5.604	5.890	5.231	5.5329	4.20
75) 1,3-dichlorobenzene	3.525	3.420	3.553	4.821	4.918	5.006	4.513	4.397	4.435	3.866	4.2453	14.30
76) C 1,4-dichlorobenzene	4.355	4.292	4.230	5.318	5.267	5.348	4.660	4.527	4.516	3.863	4.6375	11.03
77) sec-butylbenzene	7.667	7.931	7.745	9.865	9.647	9.665	8.536	8.213	8.209	6.729	8.4209	12.11
78) p-isopropyltoluene	6.352	6.404	6.443	8.388	8.337	8.354	7.350	7.105	7.017	5.704	7.1454	13.38
79) 1,2-dichlorobenzene	3.935	3.864	3.774	4.908	4.882	4.924	4.396	4.294	4.318	3.789	4.3083	10.86
80) n-butylbenzene	6.481	5.600	5.605	7.794	7.945	8.100	7.292	7.144	7.098	5.979	6.9038	13.63



Initial Calibration Summary

Form 6

Client : Langan Engineering & Environmental **Lab Number** : L1604136
Project Name : 450 UNION STREET **Project Number** : 170301202
Instrument ID : AIRPIANO2 **Ical Ref** : ICAL12011
Calibration dates : 02/07/16 21:59 02/08/16 03:03

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)	C	1,2,4-trichlorobenzene	2.902	2.779	3.970	4.149	4.250	4.156	4.056	3.793	3.258	3.7015	15.40	
82)		naphthalene	6.925	6.004	7.875	8.608	8.905	8.926	8.778	8.274	7.283	7.9532	12.87	
83)		1,2,3-trichlorobenzene	3.054	2.859	3.774	3.952	4.046	4.032	3.993	3.761	3.535	3.6674	11.92	
84)	C	hexachlorobutadiene	2.872	2.782	3.537	3.476	3.476	3.358	3.332	3.125	2.825	3.1981	9.49	

Response Factor Report Air Piano 2

Method Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Method File : TSIM160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 09 11:35:28 2016
 Response Via : Initial Calibration

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

Compound			0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD

1) I	bromochloromethane		-----ISTD-----											
2)		propylene	1.236	0.859	0.812	0.722	0.709	0.589	0.574	0.609	0.543	0.7392	29.20	
3)		dichlorodifluorome...	1.377	1.355	1.484	1.541	1.402	1.367	1.313	1.343	1.065	1.3608	9.70	
4) C		chloromethane	0.809	0.718	0.777	0.780	0.768	0.638	0.618	0.642	0.587	0.7041	11.87	
5)		Freon-114	1.820	1.830	1.758	2.079	2.052	2.001	1.705	1.639	1.678	1.459	1.8021	10.96
6) C		vinyl chloride	0.709	0.694	0.652	0.773	0.789	0.765	0.644	0.628	0.652	0.600	0.6906	9.61
7) C		1,3-butadiene	0.519	0.458	0.487	0.592	0.572	0.568	0.477	0.458	0.483	0.438	0.5052	10.76
8) C		bromomethane	0.750	0.626	0.580	0.655	0.642	0.658	0.557	0.546	0.554	0.522	0.6091	11.46
9) C		chloroethane	0.392	0.348	0.287	0.355	0.354	0.355	0.303	0.296	0.301	0.278	0.3269	11.71
10)		ethanol					0.625	0.622	0.535	0.504	0.531	0.482	0.5499	10.91
11) C		vinyl bromide	0.613	0.546	0.549	0.690	0.676	0.671	0.572	0.555	0.573	0.524	0.5969	10.23
12)		acetone			1.131	1.305	1.269	1.247	1.063	1.035	1.053	0.926	1.1286	11.83
13)		trichlorofluoromet...	1.674	1.707	1.598	1.954	1.918	1.907	1.600	1.559	1.613	1.454	1.6986	10.08
14)		isopropyl alcohol				1.454	1.397	1.386	1.170	1.126	1.163	1.047	1.2489	12.75
15) C		acrylonitrile	0.631	0.576	0.519	0.588	0.579	0.584	0.495	0.459	0.482	0.447	0.5360	11.81
16) C		1,1-dichloroethene	1.334	1.244	1.211	1.435	1.425	1.416	1.180	1.149	1.183	1.087	1.2664	10.02
17)		tertiary butyl alc...	1.983	1.726	1.670	1.742	1.715	1.697	1.419	1.373	1.436	1.331	1.6092	13.00
18) C		methylene chloride					1.175	1.133	0.935	0.910	0.937	0.869	0.9931	12.85
19) C		3-chloropropene	1.589	1.539	1.373	1.394	1.232	1.188	1.002	0.980	1.025	0.954	1.2278	19.31
20) C		carbon disulfide		2.186	2.014	2.403	2.315	2.299	1.955	1.931	1.988	1.836	2.1030	9.57
21)		Freon 113	1.547	1.467	1.383	1.683	1.656	1.646	1.382	1.354	1.384	1.253	1.4756	10.10
22)		Halothane	1.212	1.113	1.069	1.321	1.285	1.287	1.081	1.065	1.104	1.007	1.1544	9.68
23)		trans-1,2-dichloro...	1.202	1.130	1.117	1.365	1.339	1.337	1.138	1.115	1.154	1.060	1.1957	9.23
24) C		1,1-dichloroethane	1.389	1.336	1.302	1.579	1.548	1.544	1.305	1.273	1.313	1.201	1.3790	9.55
25) C		MTBE	1.853	1.833	1.743	2.150	2.117	2.135	1.795	1.752	1.809	1.657	1.8846	9.59
26) C		vinyl acetate			1.289	1.471	1.601	1.657	1.484	1.611	1.810	1.773	1.5870	10.71
27) C		2-butanone		1.703	1.574	1.925	1.914	1.951	1.681	1.681	1.753	1.618	1.7557	7.99
28)		cis-1,2-dichloroet...	1.075	1.064	1.019	1.239	1.203	1.199	1.019	1.000	1.030	0.942	1.0790	9.29
29)		Ethyl Acetate				0.285	0.191	0.248	0.210	0.217	0.232	0.216	0.2284	13.35
30) C		chloroform	1.516	1.542	1.448	1.769	1.725	1.719	1.448	1.420	1.457	1.304	1.5348	10.03
31)		Tetrahydrofuran		0.952	0.937	1.096	1.047	1.070	0.864	0.880	0.942	0.852	0.9600	9.49

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Method File : TSIM160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 09 11:35:28 2016
 Response Via : Initial Calibration

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32) C	1,2-dichloroethane	1.085	1.086	1.023	1.220	1.214	1.217	1.033	1.011	1.048	0.955	1.0892	8.80
33) I	1,4-difluorobenzene	-----ISTD-----											
34) C	hexane	0.573	0.512	0.470	0.548	0.540	0.533	0.444	0.444	0.461	0.422	0.4947	10.62
35) s	1,2-dichloroethane-D4	0.268	0.274	0.270	0.266	0.270	0.277	0.262	0.266	0.268	0.266	0.2688	1.62
36) C	1,1,1-trichloroethane	0.695	0.690	0.654	0.752	0.761	0.745	0.628	0.621	0.656	0.613	0.6816	8.21
37) C	benzene		1.091	0.923	1.068	1.014	1.014	0.844	0.837	0.872	0.815	0.9420	11.29
38) C	carbon tetrachloride	0.743	0.704	0.687	0.824	0.803	0.807	0.685	0.672	0.699	0.654	0.7277	8.55
39)	cyclohexane	0.584	0.575	0.520	0.600	0.576	0.572	0.482	0.469	0.493	0.464	0.5336	9.94
40)	dibromomethane	0.573	0.439	0.398	0.451	0.445	0.442	0.373	0.369	0.385	0.362	0.4238	14.78
41) C	1,2-dichloropropane	0.348	0.357	0.340	0.406	0.405	0.407	0.347	0.344	0.360	0.342	0.3657	7.85
42)	bromodichloromethane	0.760	0.758	0.705	0.830	0.854	0.825	0.709	0.728	0.765	0.704	0.7638	7.28
43) C	1,4-dioxane			0.187	0.228	0.222	0.221	0.195	0.191	0.202	0.194	0.2049	7.92
44) C	trichloroethene	0.441	0.435	0.409	0.484	0.485	0.491	0.412	0.402	0.412	0.379	0.4351	9.04
45) C	2,2,4-trimethylpen...	1.701	1.580	1.526	1.776	1.744	1.792	1.514	1.489	1.539	1.424	1.6085	8.23
46)	heptane		0.646	0.646	0.745	0.735	0.736	0.626	0.629	0.646	0.613	0.6692	7.99
47) C	cis-1,3-dichloropr...	1.702	1.677	1.852	2.199	2.074	2.077	1.846	2.014	2.078	2.003	1.9522	8.93
48) C	4-methyl-2-pentanone	0.854	0.880	0.846	1.040	0.999	1.054	0.911	0.914	0.936	0.889	0.9322	7.98
49)	trans-1,3-dichloro...	0.587	0.602	0.587	0.726	0.725	0.734	0.640	0.661	0.696	0.681	0.6640	8.71
50) C	1,1,2-trichloroethane	0.467	0.472	0.477	0.567	0.557	0.560	0.471	0.473	0.488	0.463	0.4996	8.65
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene		7.386	6.596	7.944	7.724	7.583	6.541	6.477	6.585	6.011	6.9830	9.74
53) s	toluene-D8	4.422	4.458	4.326	4.433	4.420	4.518	4.404	4.452	4.435	4.421	4.4290	1.08
54)	2-hexanone		3.189	3.306	4.842	5.496	5.495	5.205	5.308	5.440	5.090	4.8188	19.01
55)	dibromochloromethane	4.177	4.016	3.750	4.708	4.581	4.562	4.009	4.006	4.185	3.884	4.1878	7.73
56) C	1,2-dibromoethane	3.302	3.208	3.169	3.977	3.860	3.833	3.380	3.420	3.514	3.262	3.4926	8.42
57) C	tetrachloroethene	3.045	2.927	2.769	3.452	3.362	3.344	2.870	2.823	2.895	2.663	3.0151	9.15
58)	1,1,1,2-tetrachlor...	2.368	2.302	2.132	2.622	2.555	2.569	2.214	2.175	2.245	2.003	2.3184	8.92
59) C	chlorobenzene	4.162	3.819	3.853	4.771	4.638	4.631	3.958	3.900	4.001	3.580	4.1314	9.87
60) C	ethylbenzene	6.125	6.101	5.837	7.119	7.002	6.996	6.049	5.942	6.084	5.467	6.2722	8.99
61) C	m+p-xylene	4.714	4.581	4.383	5.543	5.471	5.512	4.722	4.643	4.747	4.193	4.8508	9.99

Response Factor Report Air Piano 2

Method Path : O:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Method File : TSIM160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 09 11:35:28 2016
 Response Via : Initial Calibration

Calibration Files

0.02=R238820.D 0.04=R238821.D 0.1 =R238822.D 0.2 =R238823.D 0.5 =R238824.D 1.0 =R238825.D
 5.0 =R238826.D 10.0=R238827.D 20.0=R238828.D 50.0=R238829.D

	Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C bromoform	2.838	2.924	2.752	3.466	3.467	3.457	3.064	3.059	3.211	2.928	3.1166	8.68
63)	C styrene	3.604	3.433	3.221	4.078	4.081	4.102	3.643	3.597	3.734	3.343	3.6835	8.58
64)	C 1,1,2,2-tetrachlor...	3.634	3.769	3.613	4.487	4.331	4.303	3.781	3.755	3.849	3.408	3.8929	9.16
65)	C o-xylene	5.206	5.099	4.787	5.903	5.710	5.679	4.879	4.784	4.856	4.107	5.1011	10.65
66)	1,2,3-trichloropro...	3.050	2.999	2.734	3.525	3.426	3.438	3.033	2.968	3.081	2.828	3.1083	8.60
67)	s bromofluorobenzene	2.378	2.403	2.392	2.380	2.407	2.447	2.416	2.424	2.450	2.438	2.4136	1.08
68)	C isopropylbenzene	6.812	6.494	6.265	7.770	7.549	7.549	6.497	6.360	6.410	5.595	6.7300	10.25
69)	bromobenzene	3.752	3.535	3.508	4.313	4.206	4.199	3.666	3.616	3.749	3.444	3.7986	8.44
70)	4-ethyl toluene	6.827	6.066	6.109	7.963	7.929	8.123	7.116	7.017	7.111	6.125	7.0385	11.13
71)	1,3,5-trimethylben...	6.891	6.148	5.643	7.195	7.004	6.852	5.907	5.793	5.865	4.944	6.2242	11.72
72)	tert-butylbenzene	5.744	5.919	5.766	7.041	6.882	6.845	5.893	5.604	5.475	4.463	5.9633	13.10
73)	1,2,4-trimethylben...	5.344	5.069	5.256	6.740	6.625	6.661	5.846	5.630	5.567	4.546	5.7285	12.95
74)	C Benzyl Chloride				5.301	5.491	5.737	5.477	5.604	5.890	5.231	5.5329	4.20
75)	1,3-dichlorobenzene	3.525	3.420	3.553	4.821	4.918	5.006	4.513	4.397	4.435	3.866	4.2453	14.30
76)	C 1,4-dichlorobenzene	4.355	4.292	4.230	5.318	5.267	5.348	4.660	4.527	4.516	3.863	4.6375	11.03
77)	sec-butylbenzene	7.667	7.931	7.745	9.865	9.647	9.665	8.536	8.213	8.209	6.729	8.4209	12.11
78)	p-isopropyltoluene	6.352	6.404	6.443	8.388	8.337	8.354	7.350	7.105	7.017	5.704	7.1454	13.38
79)	1,2-dichlorobenzene	3.935	3.864	3.774	4.908	4.882	4.924	4.396	4.294	4.318	3.789	4.3083	10.86
80)	n-butylbenzene	6.481	5.600	5.605	7.794	7.945	8.100	7.292	7.144	7.098	5.979	6.9038	13.63
81)	C 1,2,4-trichloroben...		2.902	2.779	3.970	4.149	4.250	4.156	4.056	3.793	3.258	3.7015	15.40
82)	naphthalene		6.925	6.004	7.875	8.608	8.905	8.926	8.778	8.274	7.283	7.9532	12.87
83)	1,2,3-trichloroben...		3.054	2.859	3.774	3.952	4.046	4.032	3.993	3.761	3.535	3.6674	11.92
84)	C hexachlorobutadiene		2.872	2.782	3.537	3.476	3.476	3.358	3.332	3.125	2.825	3.1981	9.49

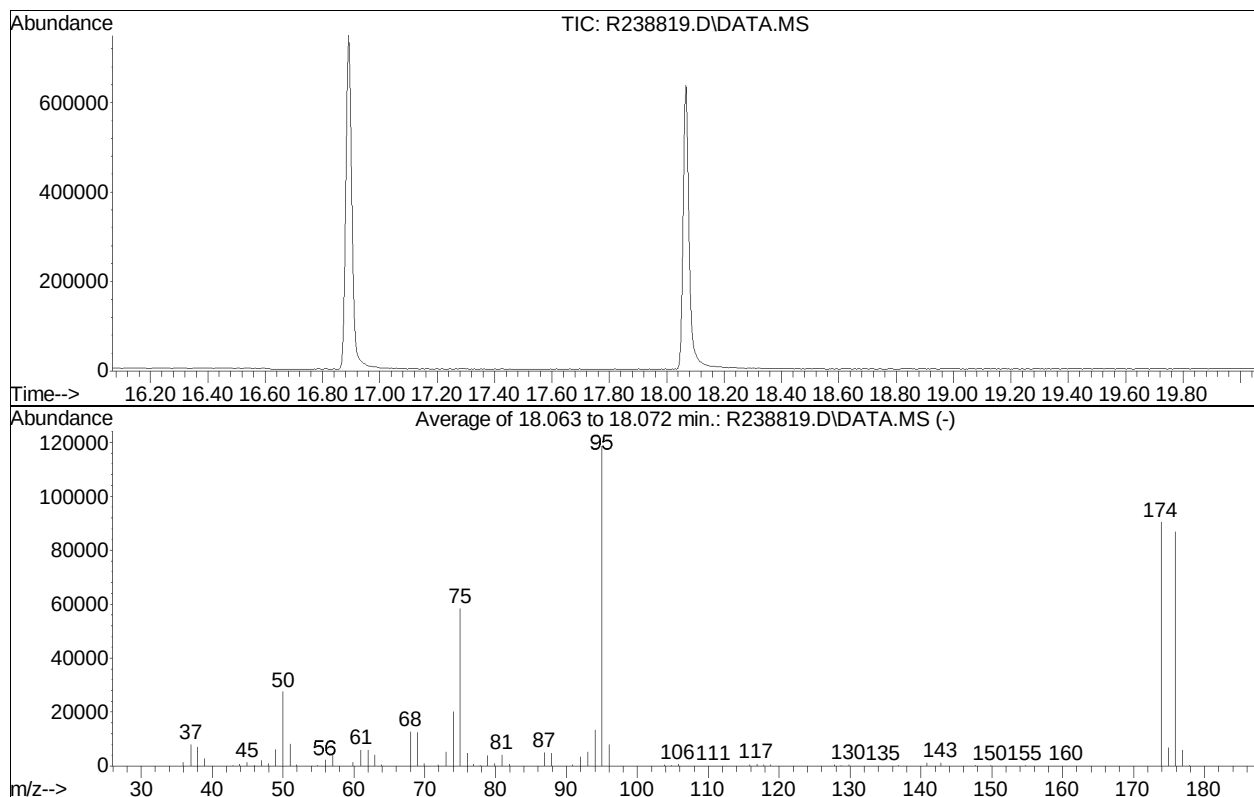
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238819.D
 Acq On : 7 Feb 2016 9:26 pm
 Operator : AIRPIAN02:AR
 Sample : WG863731-1
 Misc : WG863731
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 09 10:29:21 2016



AutoFind: Scans 1778, 1779, 1780; Background Corrected with Scan 1770

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.2	27504	PASS
75	95	30	66	49.3	58344	PASS
95	95	100	100	100.0	118403	PASS
96	95	5	9	6.7	7914	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.5	90531	PASS
175	174	4	9	7.6	6911	PASS
176	174	93	101	95.9	86805	PASS
177	176	5	9	6.9	5967	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238820.D
 Acq On : 7 Feb 2016 9:59 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.02
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:45:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	192616	10.000	ppbV	0.00
Standard Area = 188893			Recovery = 101.97%			
33) 1,4-difluorobenzene	12.54	114	440998	10.000	ppbV	0.00
Standard Area = 444195			Recovery = 99.28%			
51) chlorobenzene-D5	16.89	54	101142	10.000	ppbV	0.00
Standard Area = 100631			Recovery = 100.51%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	118393	10.244	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.44%			
53) toluene-D8	15.23	98	447279	10.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.42%			
67) bromofluorobenzene	18.07	95	240535	9.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.45%			
Target Compounds						
					Qvalue	
2) propylene	4.32	41	691M6	0.061	ppbV	
3) dichlorodifluoromethane	4.42	85	577	0.022	ppbV	99
4) chloromethane	4.65	50	350M4	0.028	ppbV	
5) Freon-114	4.80	85	701	0.021	ppbV	96
6) vinyl chloride	4.97	62	273M4	0.022	ppbV	
7) 1,3-butadiene	5.17	54	200M4	0.022	ppbV	
8) bromomethane	5.54	94	289	0.027	ppbV #	73
9) chloroethane	5.80	64	151	0.026	ppbV	98
10) ethanol	6.10	31	1372	0.133	ppbV #	73
11) vinyl bromide	6.28	106	236M4	0.021	ppbV	
12) acetone	6.75	43	3040M4	0.149	ppbV	
13) trichlorofluoromethane	6.84	101	645	0.021	ppbV	93
14) isopropyl alcohol	7.14	45	1971M4	0.087	ppbV	
15) acrylonitrile	7.32	53	243M4	0.025	ppbV	
16) 1,1-dichloroethene	7.66	61	514M4	0.023	ppbV	
17) tertiary butyl alcohol	7.99	59	764M3	0.028	ppbV	
18) methylene chloride	7.83	49	1143M4	0.063	ppbV	
19) 3-chloropropene	7.98	41	612M4	0.032	ppbV	
20) carbon disulfide	8.17	76	976	0.026	ppbV #	57
21) Freon 113	8.17	101	596	0.022	ppbV	93
22) Halothane	8.74	117	467	0.022	ppbV	98
23) trans-1,2-dichloroethene	8.98	61	463M4	0.021	ppbV	
24) 1,1-dichloroethane	9.22	63	535	0.021	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238820.D
 Acq On : 7 Feb 2016 9:59 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.02
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:45:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.44	73	714M4	0.021	ppbV	
26) vinyl acetate	9.45	43	970M4	0.034	ppbV	
27) 2-butanone	9.83	43	774M4	0.024	ppbV	
28) cis-1,2-dichloroethene	10.19	61	414	0.021	ppbV	98
29) Ethyl Acetate	0.00		0	N.D.	d	
30) chloroform	10.53	83	584M4	0.021	ppbV	
31) Tetrahydrofuran	11.14	42	378M4	0.023	ppbV	
32) 1,2-dichloroethane	11.36	62	418	0.021	ppbV #	69
34) hexane	10.43	57	505M4	0.026	ppbV	
36) 1,1,1-trichloroethane	11.64	97	613M4	0.022	ppbV	
37) benzene	12.15	78	1196	0.032	ppbV	98
38) carbon tetrachloride	12.32	117	655	0.022	ppbV	98
39) cyclohexane	12.46	56	515	0.024	ppbV	91
40) dibromomethane	13.04	93	505	0.031	ppbV	93
41) 1,2-dichloropropane	13.07	63	307M4	0.020	ppbV	
42) bromodichloromethane	13.29	83	670M4	0.021	ppbV	
43) 1,4-dioxane	13.53	88	179M3	0.021	ppbV	
44) trichloroethene	13.33	130	389	0.021	ppbV	95
45) 2,2,4-trimethylpentane	13.36	57	1500	0.022	ppbV	98
46) heptane	13.65	43	712	0.026	ppbV	99
47) cis-1,3-dichloropropene	14.29	75	1501M4	0.018	ppbV	
48) 4-methyl-2-pentanone	14.50	43	753M3	0.019	ppbV	
49) trans-1,3-dichloropropene	14.88	75	518	0.018	ppbV #	35
50) 1,1,2-trichloroethane	15.06	97	412M2	0.020	ppbV	
52) toluene	15.33	91	1724	0.026	ppbV	99
54) 2-hexanone	0.00		0	N.D.	d	
55) dibromochloromethane	15.74	129	845	0.021	ppbV	97
56) 1,2-dibromoethane	15.97	107	668	0.020	ppbV	99
57) tetrachloroethene	16.36	166	616	0.021	ppbV	96
58) 1,1,1,2-tetrachloroethane	16.92	131	479M4	0.021	ppbV	
59) chlorobenzene	16.93	112	842M4	0.021	ppbV	
60) ethylbenzene	17.23	91	1239	0.020	ppbV	98
61) m+p-xylene	17.36	91	1907	0.040	ppbV	97
62) bromoform	17.44	173	574	0.019	ppbV	94
63) styrene	17.65	104	729	0.020	ppbV	95
64) 1,1,2,2-tetrachloroethane	17.74	83	735	0.019	ppbV	98
65) o-xylene	17.73	91	1053	0.021	ppbV	99
66) 1,2,3-trichloropropane	17.83	75	617M2	0.020	ppbV	
68) isopropylbenzene	18.17	105	1378	0.021	ppbV	100
69) bromobenzene	18.24	77	759	0.020	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238820.D
 Acq On : 7 Feb 2016 9:59 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.02
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:45:22 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

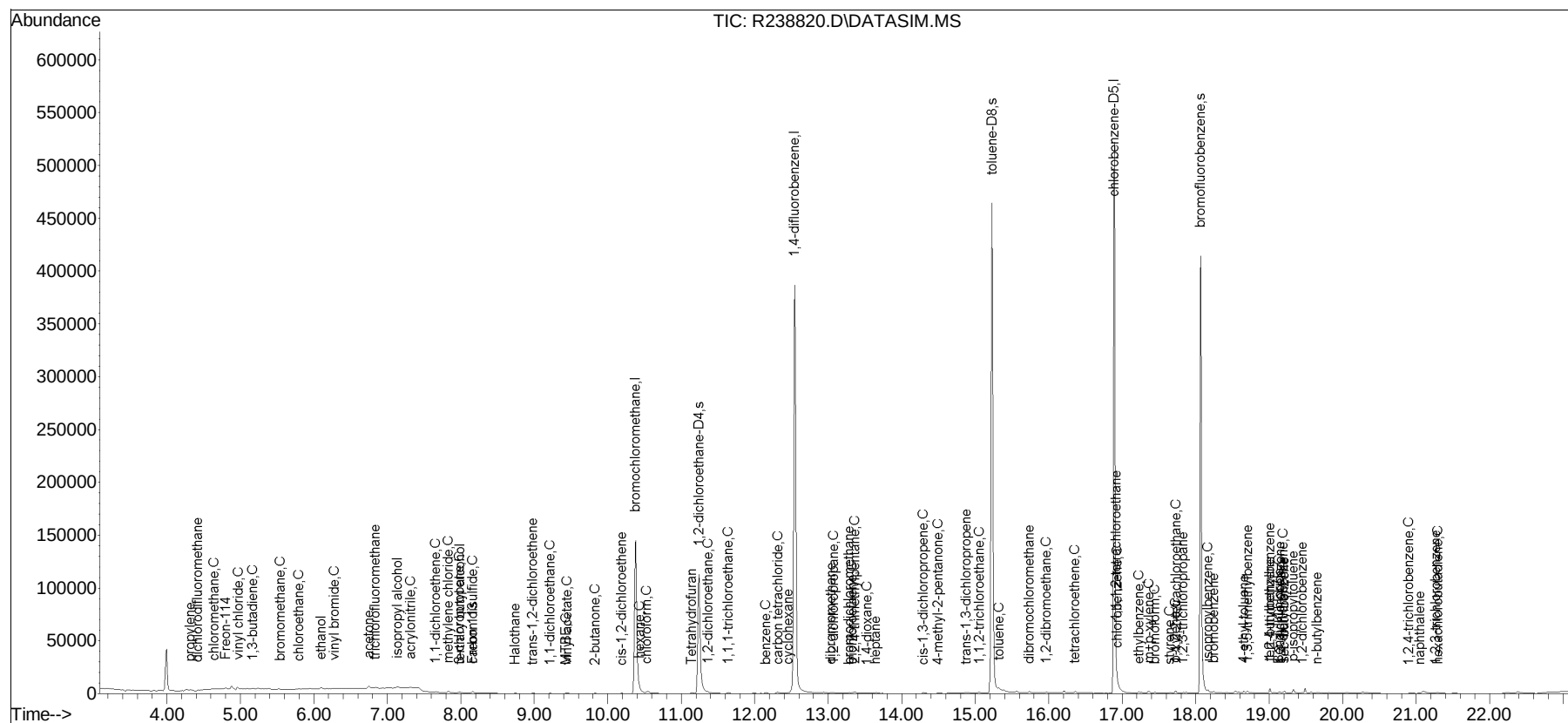
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.65	105	1381M4	0.019	ppbV	
71) 1,3,5-trimethylbenzene	18.71	105	1394M4	0.023	ppbV	
72) tert-butylbenzene	19.01	119	1162	0.019	ppbV	96
73) 1,2,4-trimethylbenzene	19.01	105	1081M4	0.018	ppbV	
74) Benzyl Chloride	19.14	91	687	0.012	ppbV	87
75) 1,3-dichlorobenzene	19.15	146	713M3	0.016	ppbV	
76) 1,4-dichlorobenzene	19.19	146	881M4	0.019	ppbV	
77) sec-butylbenzene	19.21	105	1551M4	0.018	ppbV	
78) p-isopropyltoluene	19.33	119	1285M4	0.017	ppbV	
79) 1,2-dichlorobenzene	19.45	146	796M4	0.018	ppbV	
80) n-butylbenzene	19.65	91	1311	0.018	ppbV #	86
81) 1,2,4-trichlorobenzene	20.90	180	655M4	0.016	ppbV	
82) naphthalene	21.05	128	2134M4	0.024	ppbV	
83) 1,2,3-trichlorobenzene	21.27	180	675	0.017	ppbV #	92
84) hexachlorobutadiene	21.30	225	618	0.018	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238820.D
Acq On    : 7 Feb 2016    9:59 pm
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD0.02
Misc      : WG863731
ALS Vial  : 5    Sample Multiplier: 1
```

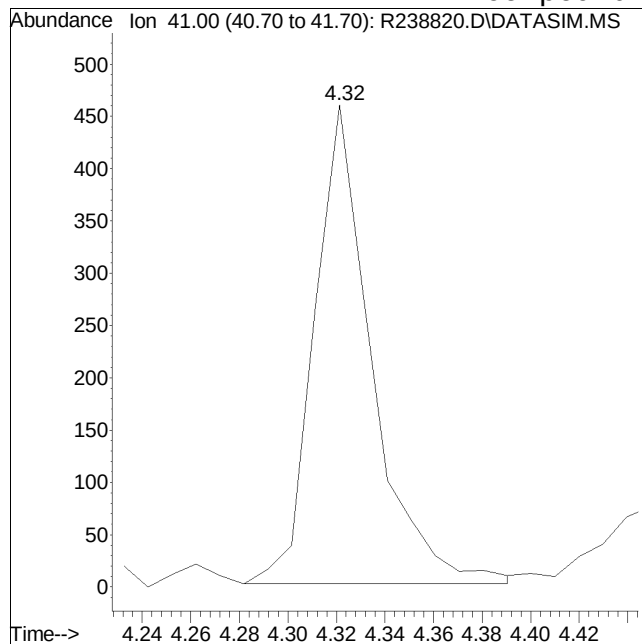
Quant Time: Feb 09 09:45:22 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

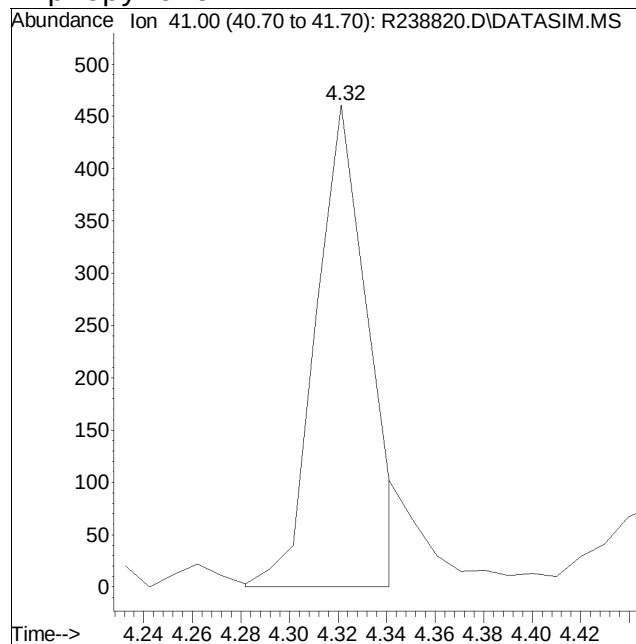
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 752

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

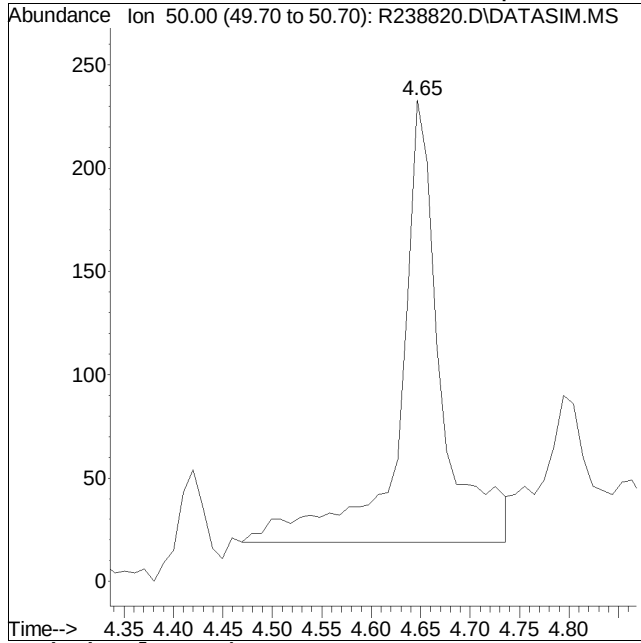


Manual Peak Response = 691 M6

Manual Integration/Negative Proof Report

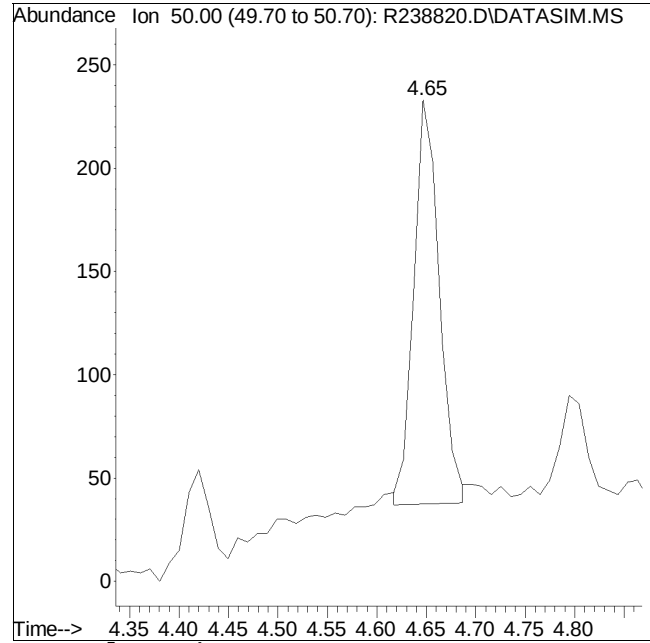
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #4: chloromethane



Original Peak Response = 622

M4 = Poor automated baseline construction.

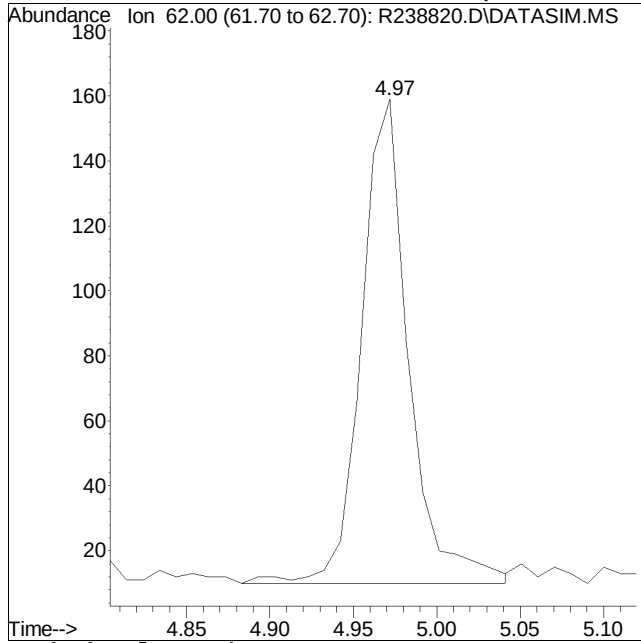


Manual Peak Response = 350 M4

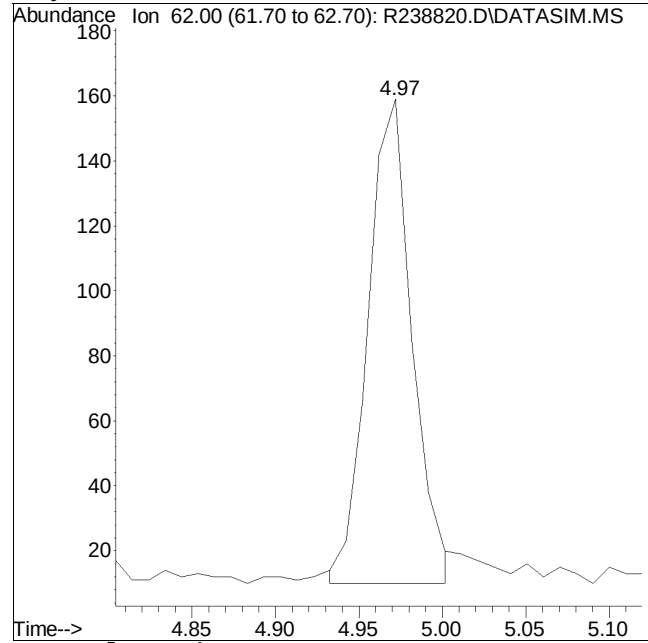
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238820.D
Date Inj'd : 2/7/2016 9:59 pm
Sample : IT015-SIMSTD0.02
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #6: vinyl chloride



Original Peak Response = 294



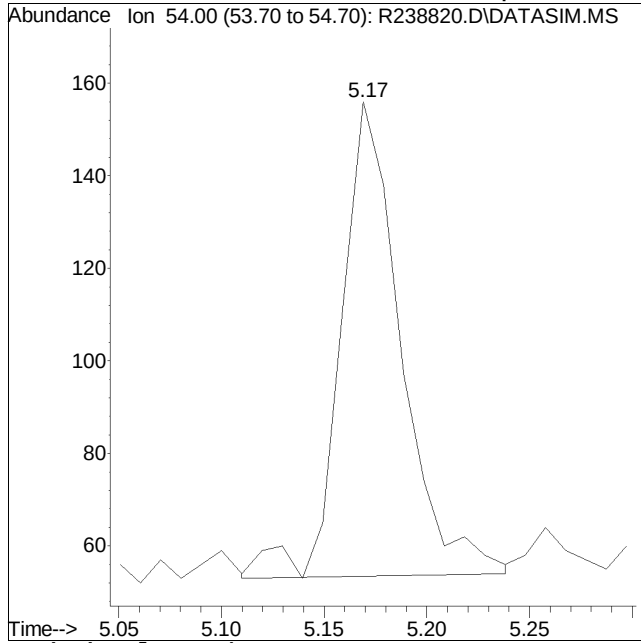
Manual Peak Response = 273 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

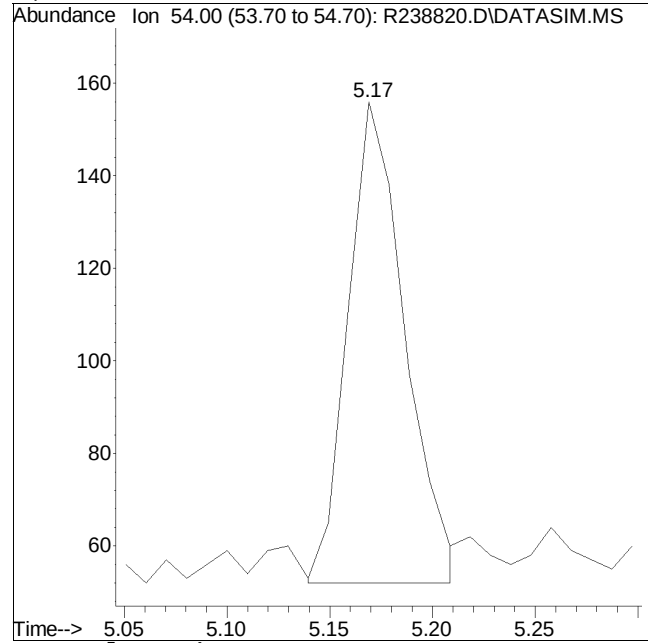
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #7: 1,3-butadiene



Original Peak Response = 210

M4 = Poor automated baseline construction.

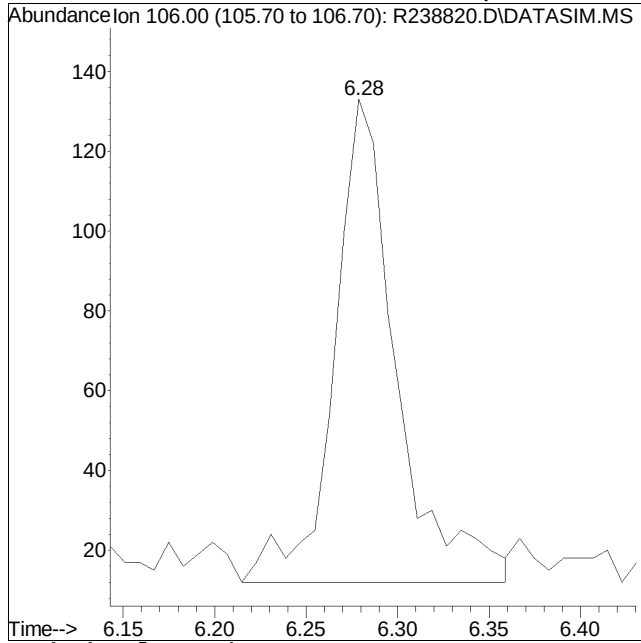


Manual Peak Response = 200 M4

Manual Integration/Negative Proof Report

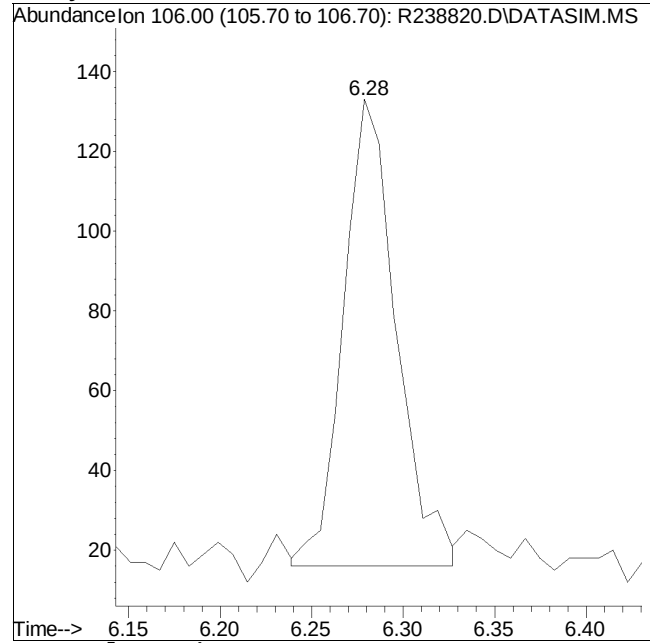
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #11: vinyl bromide



Original Peak Response = 286

M4 = Poor automated baseline construction.

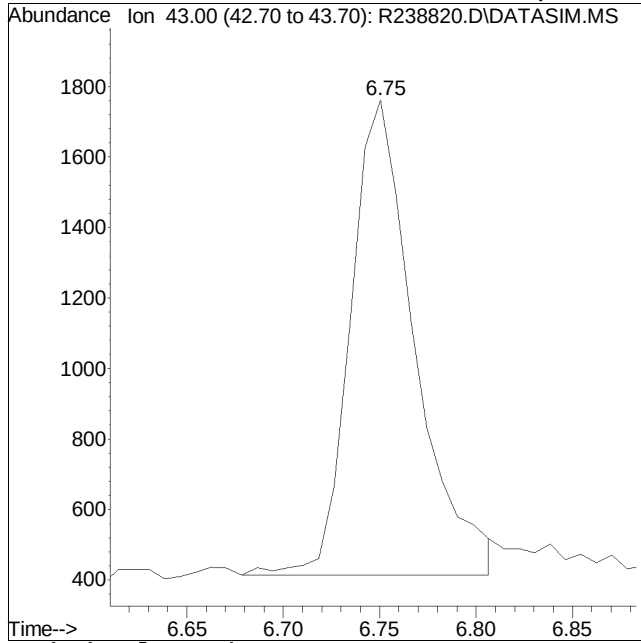


Manual Peak Response = 236 M4

Manual Integration/Negative Proof Report

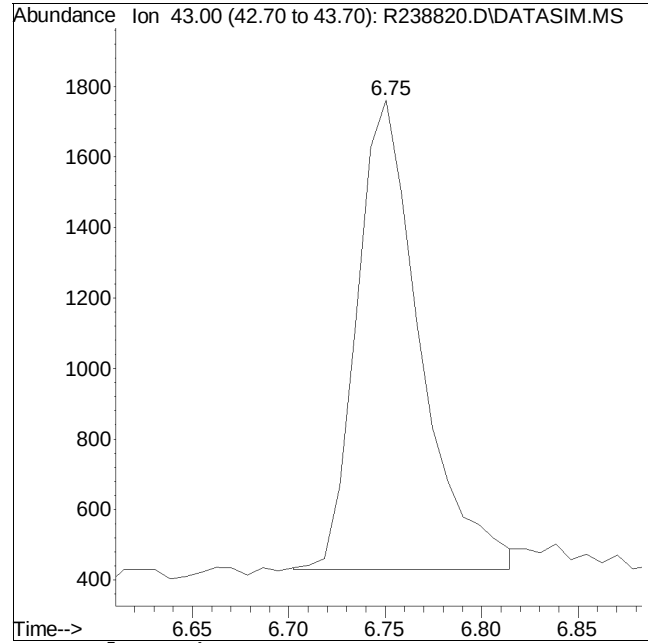
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #12: acetone



Original Peak Response = 3138

M4 = Poor automated baseline construction.

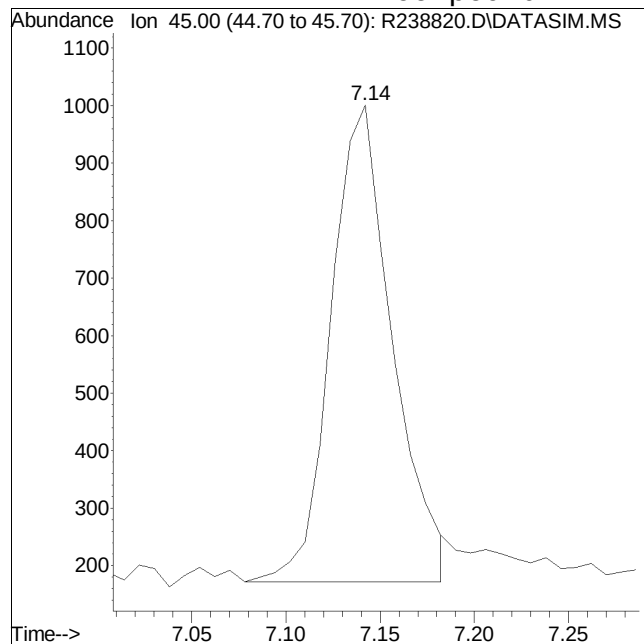


Manual Peak Response = 3040 M4

Manual Integration/Negative Proof Report

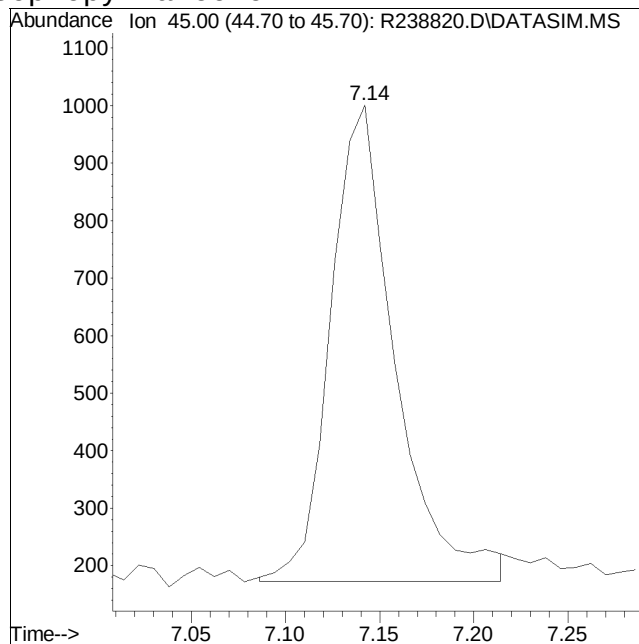
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #14: isopropyl alcohol



Original Peak Response = 1882

M4 = Poor automated baseline construction.

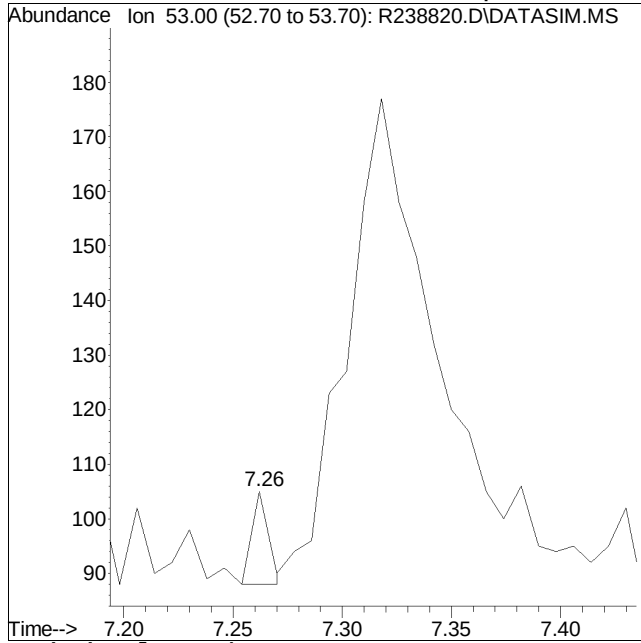


Manual Peak Response = 1971 M4

Manual Integration/Negative Proof Report

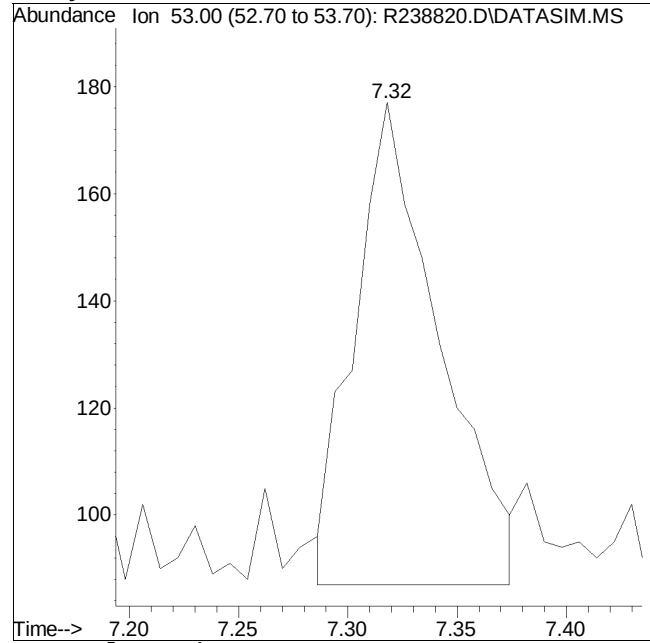
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 9

M4 = Poor automated baseline construction.

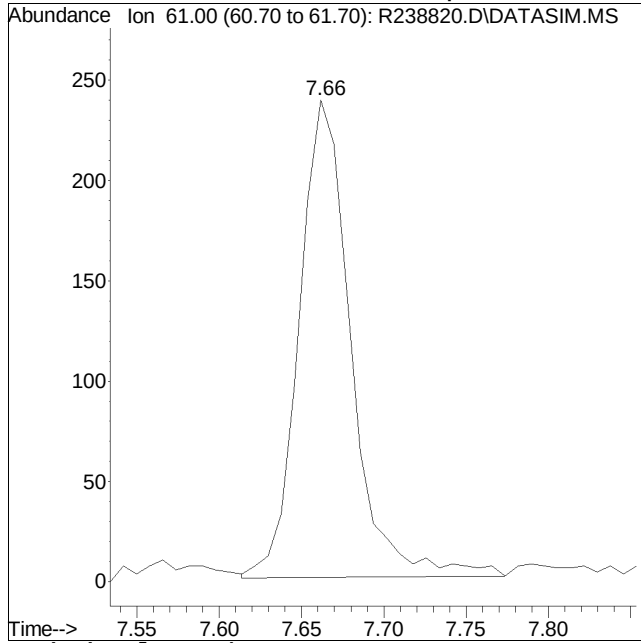


Manual Peak Response = 243 M4

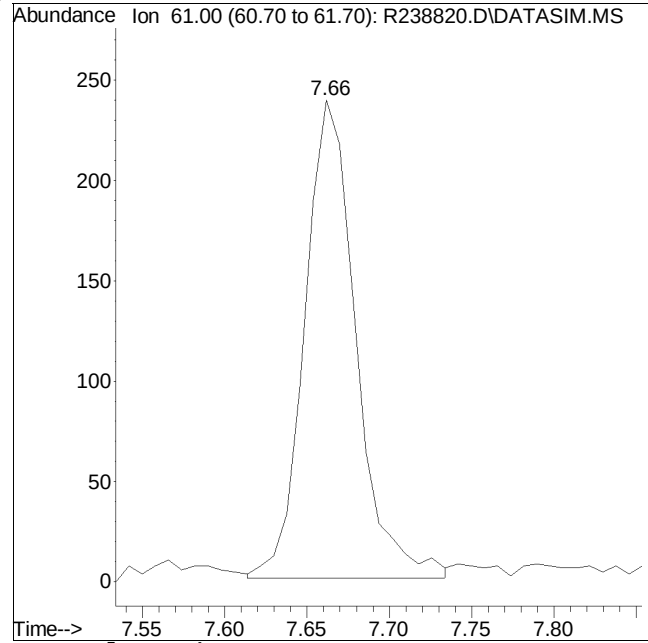
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #16: 1,1-dichloroethene



Original Peak Response = 521



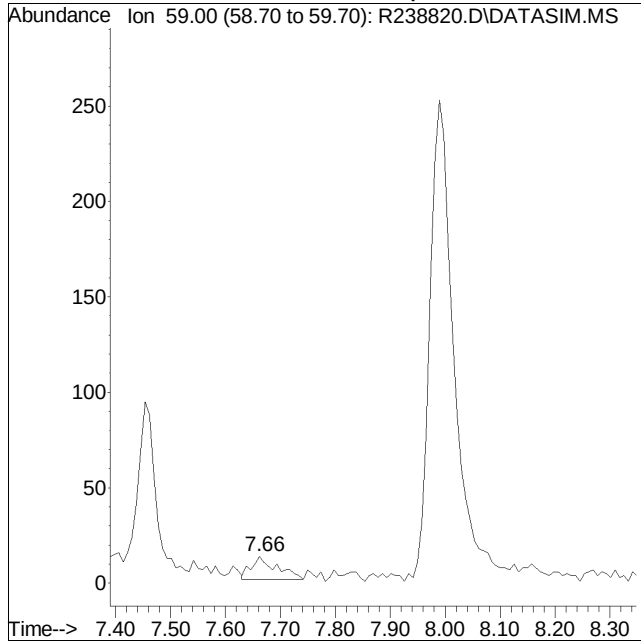
Manual Peak Response = 514 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

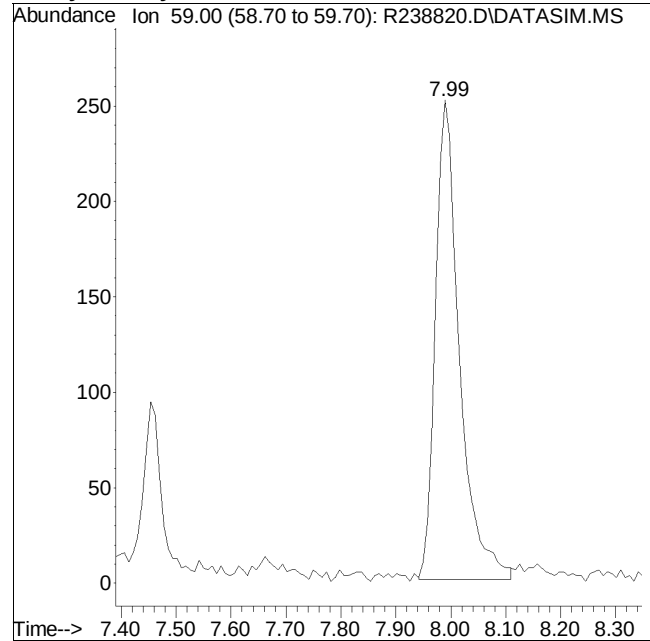
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #17: tertiary butyl alcohol



Original Peak Response = 38

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

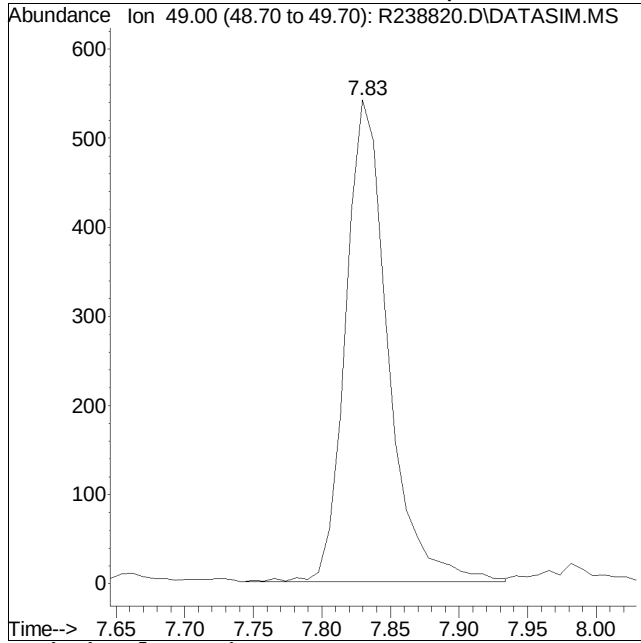


Manual Peak Response = 764 M3

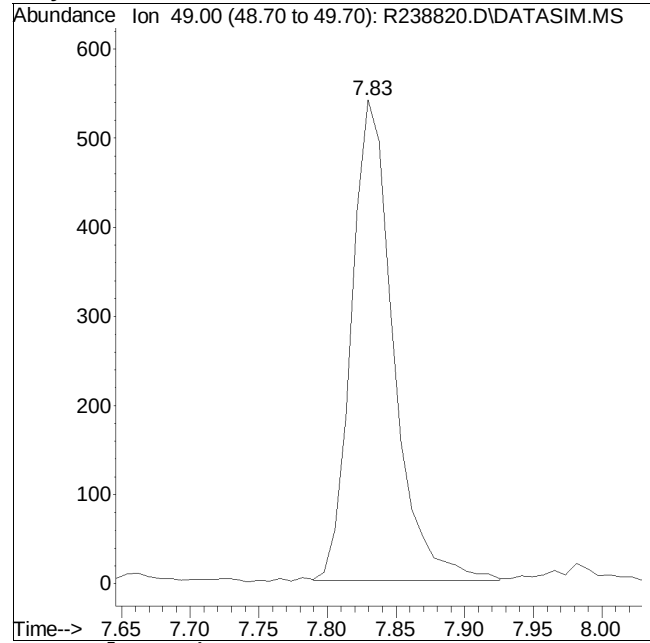
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #18: methylene chloride



Original Peak Response = 1169



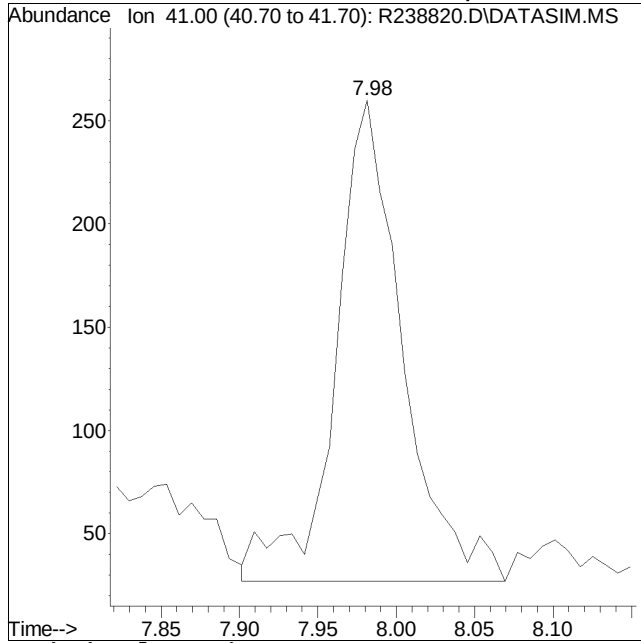
Manual Peak Response = 1143 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

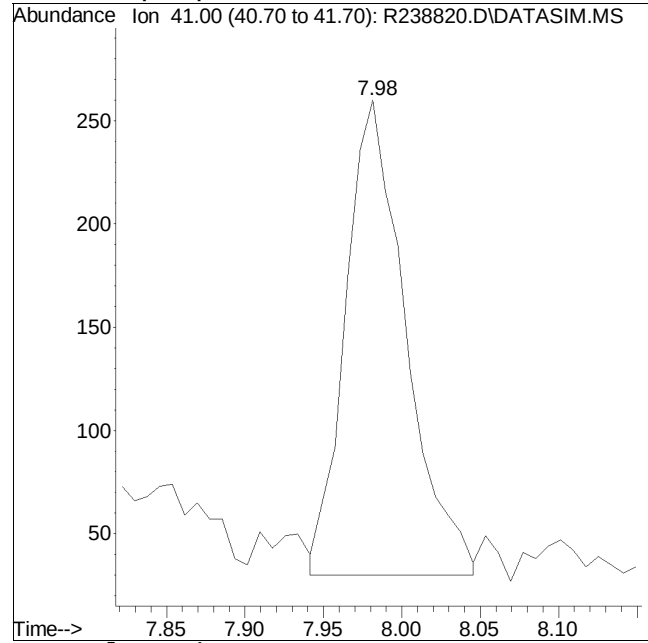
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #19: 3-chloropropene



Original Peak Response = 694

M4 = Poor automated baseline construction.

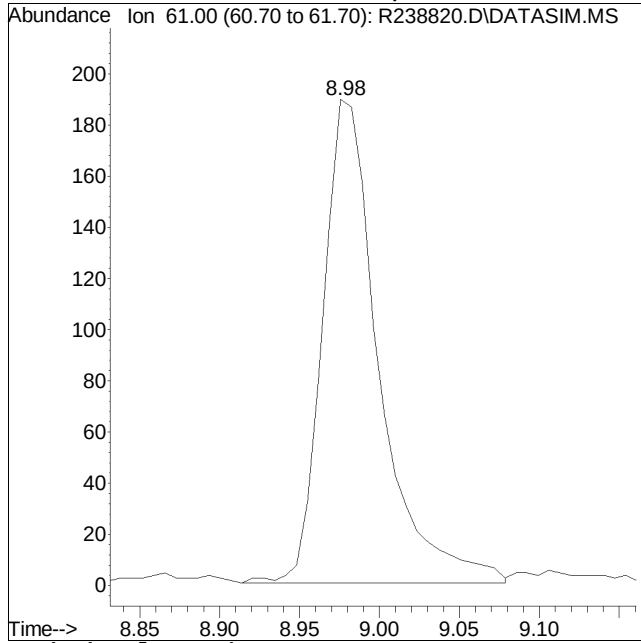


Manual Peak Response = 612 M4

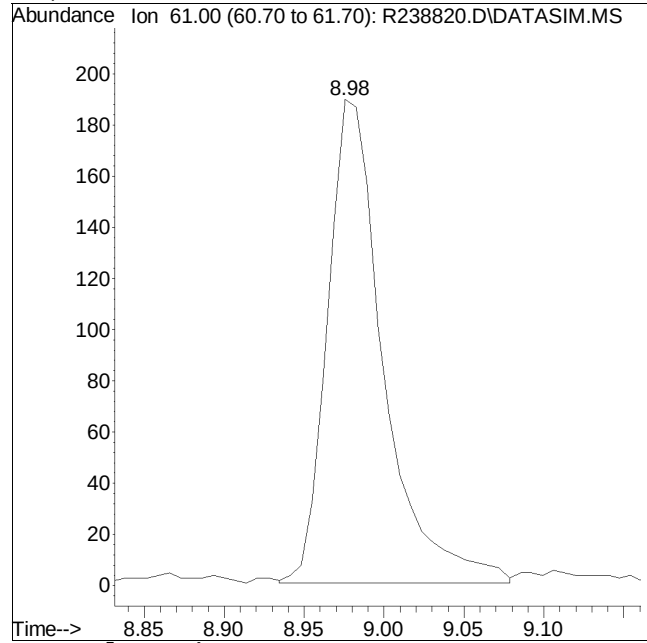
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238820.D
Date Inj'd : 2/7/2016 9:59 pm
Sample : IT015-SIMSTD0.02
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #23: trans-1,2-dichloroethene



Original Peak Response = 465



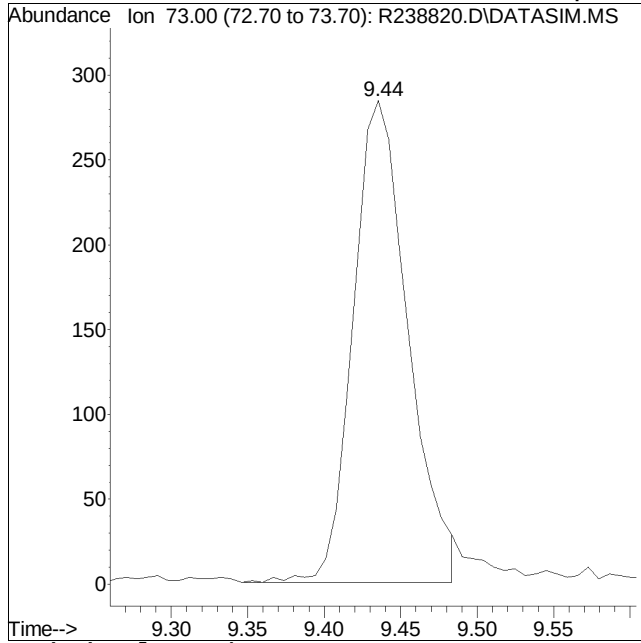
Manual Peak Response = 463 M4

M4 = Poor automated baseline construction.

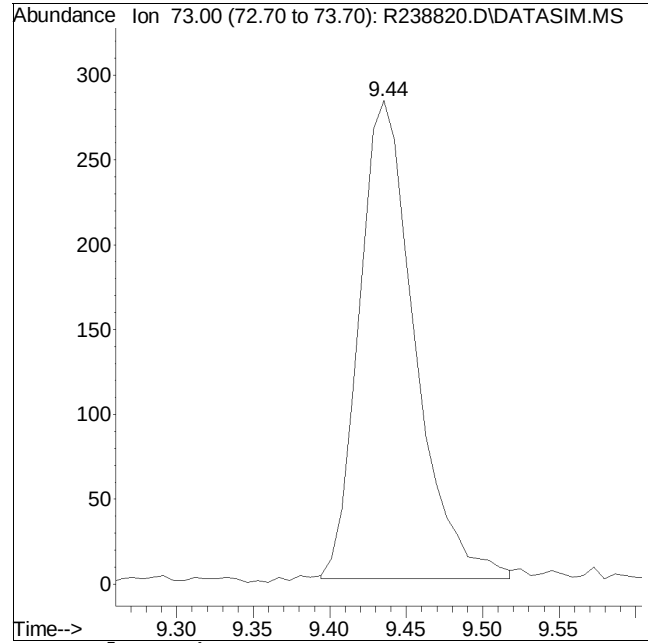
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #25: MTBE



Original Peak Response = 712



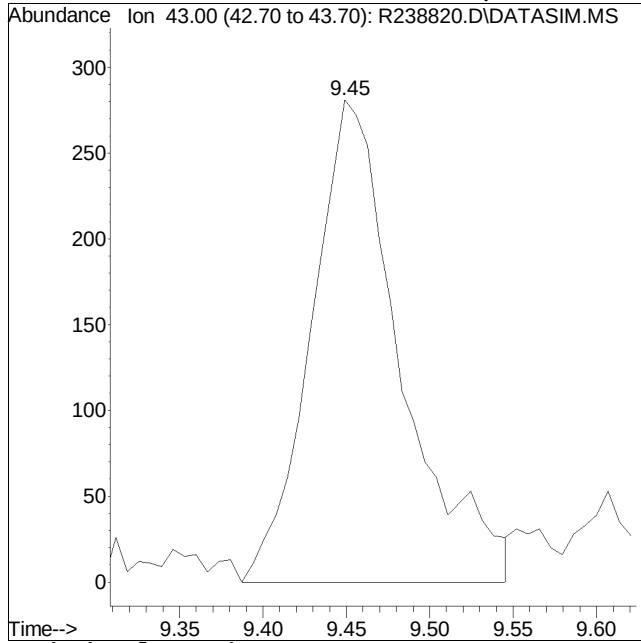
Manual Peak Response = 714 M4

M4 = Poor automated baseline construction.

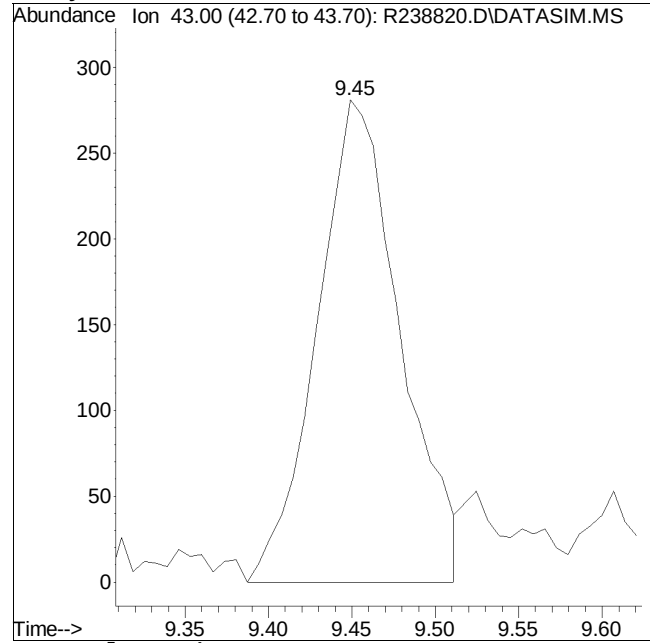
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #26: vinyl acetate



Original Peak Response = 1047



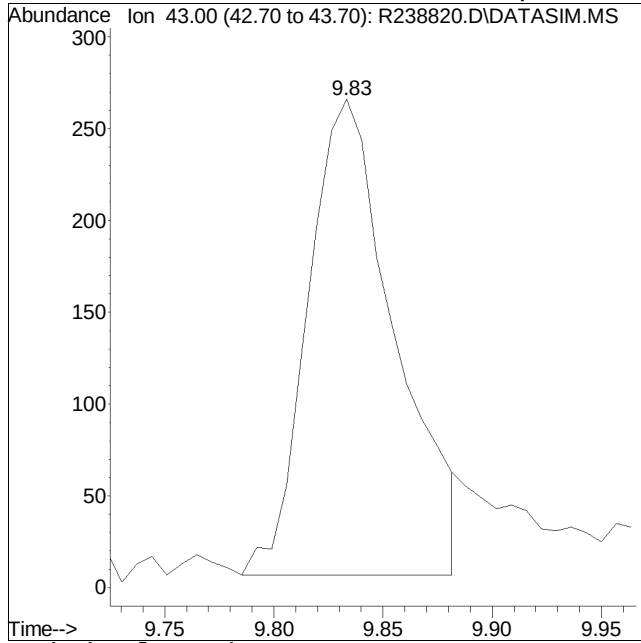
Manual Peak Response = 970 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

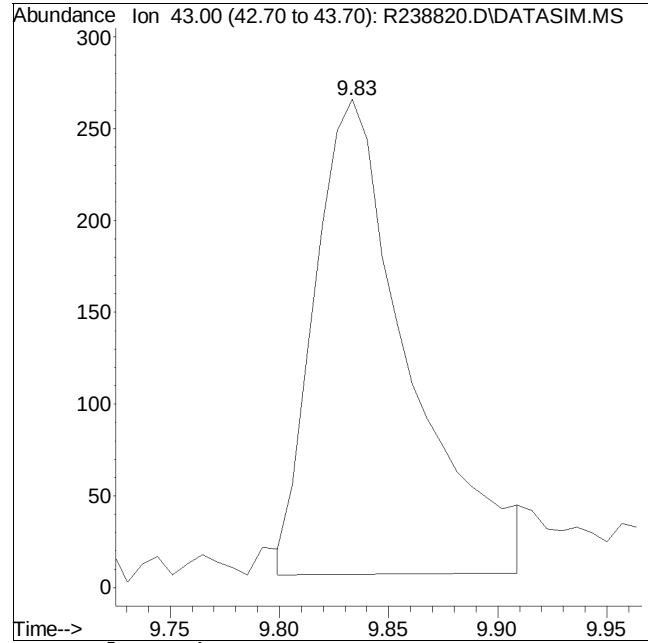
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238820.D
Date Inj'd : 2/7/2016 9:59 pm
Sample : IT015-SIMSTD0.02
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #27: 2-butanone



Original Peak Response = 722

M4 = Poor automated baseline construction.

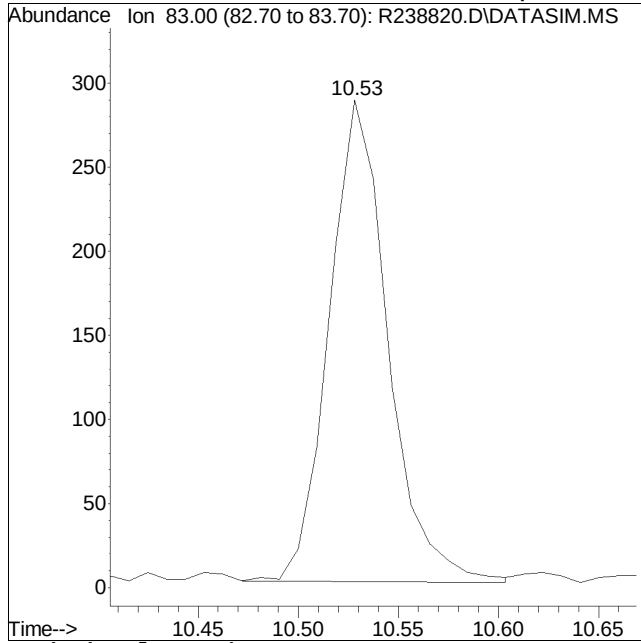


Manual Peak Response = 774 M4

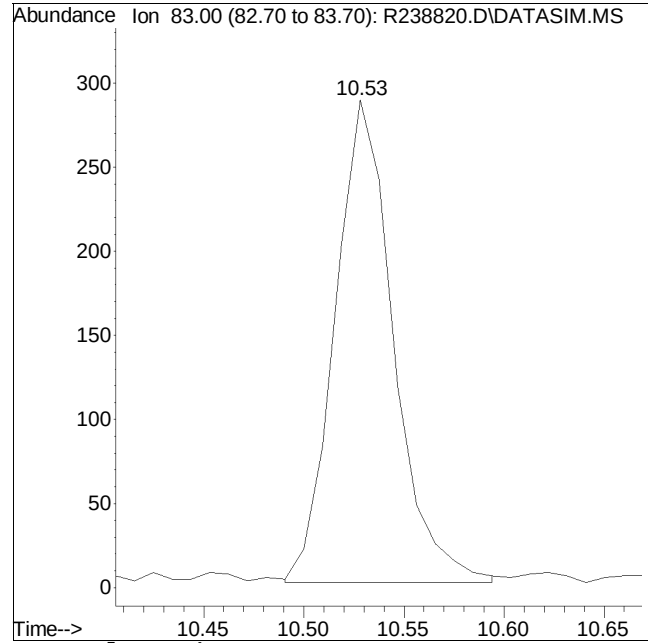
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #30: chloroform



Original Peak Response = 585



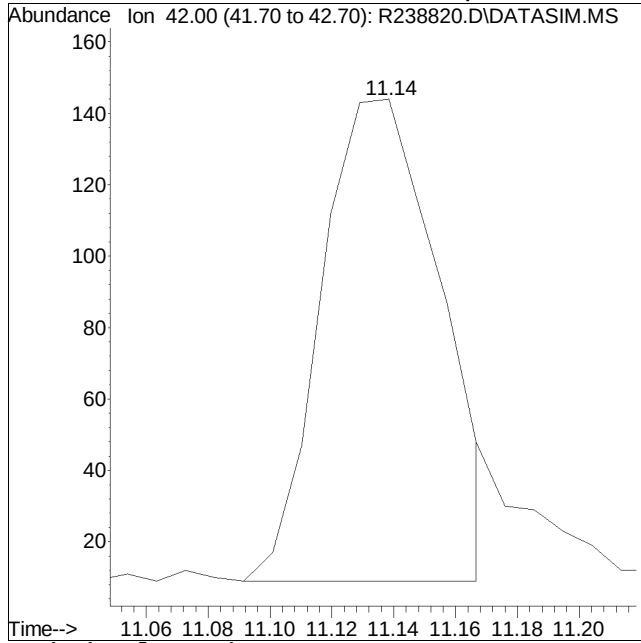
Manual Peak Response = 584 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

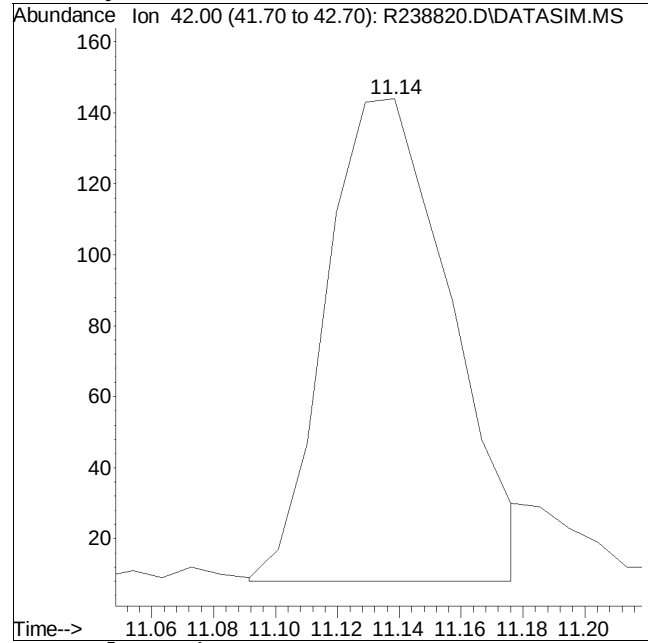
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238820.D
Date Inj'd : 2/7/2016 9:59 pm
Sample : IT015-SIMSTD0.02
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 361

M4 = Poor automated baseline construction.

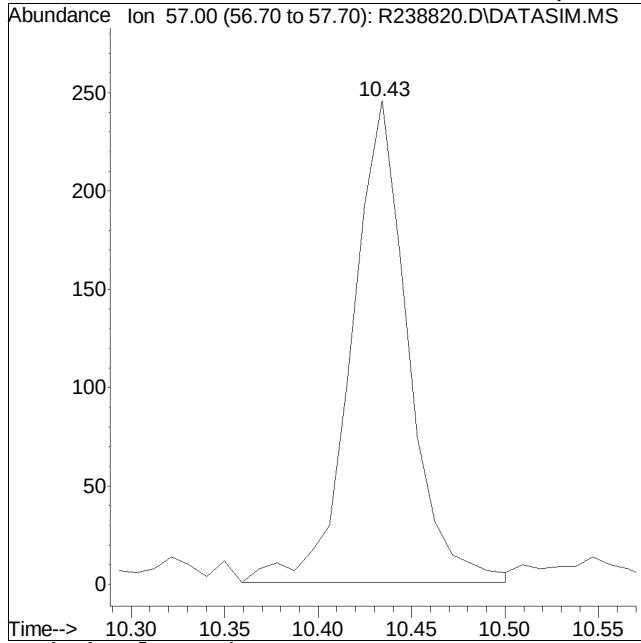


Manual Peak Response = 378 M4

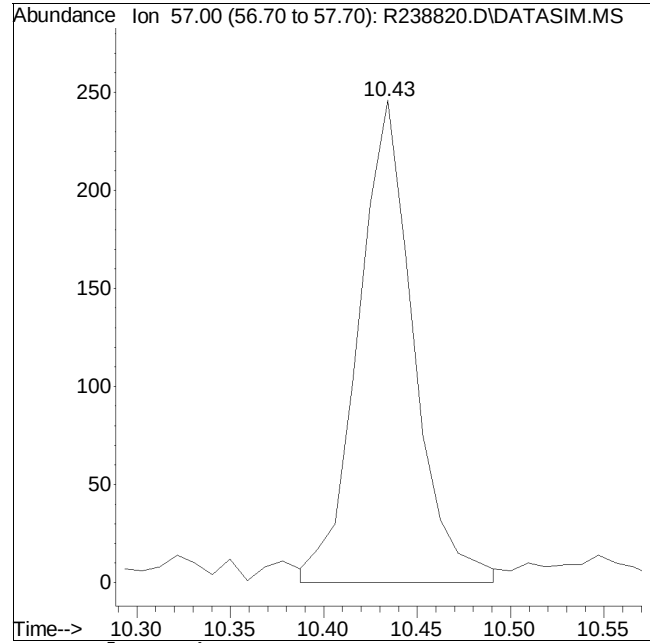
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #34: hexane



Original Peak Response = 515



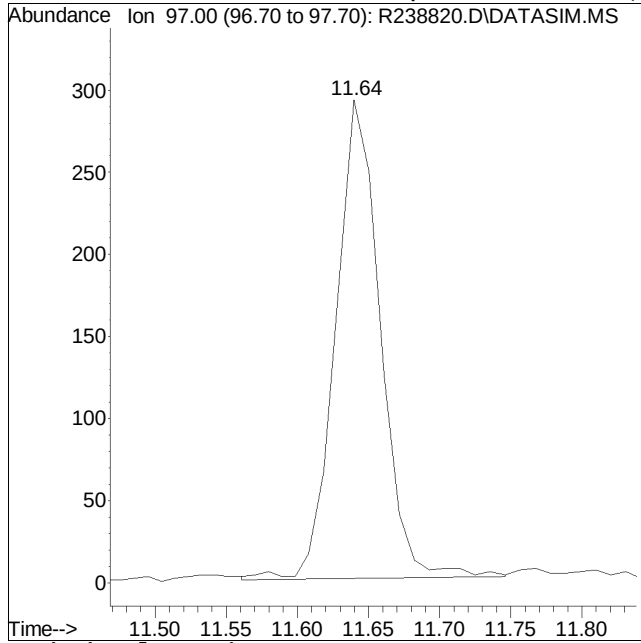
Manual Peak Response = 505 M4

M4 = Poor automated baseline construction.

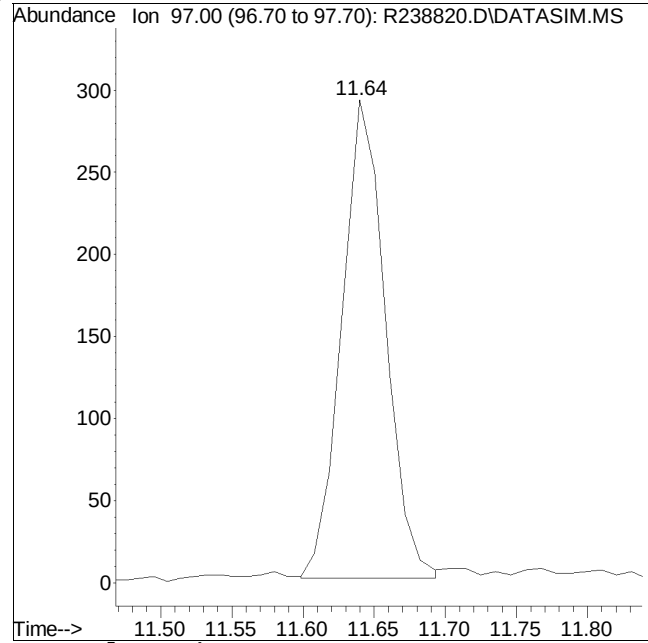
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 619



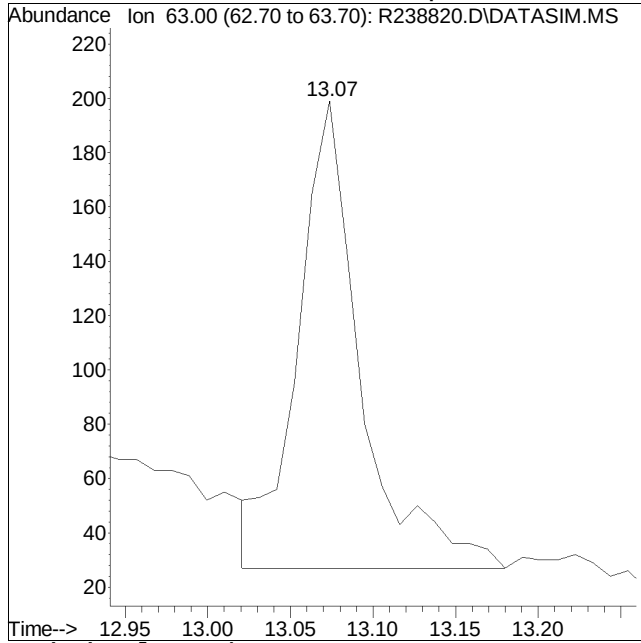
Manual Peak Response = 613 M4

M4 = Poor automated baseline construction.

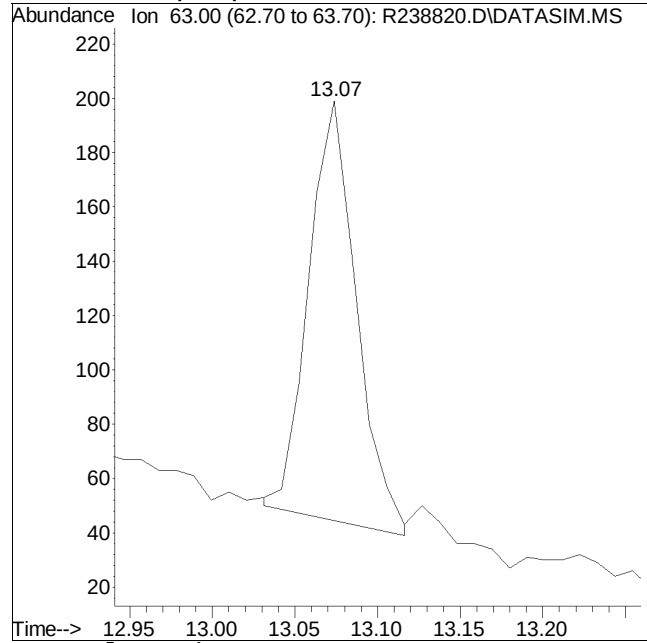
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 454



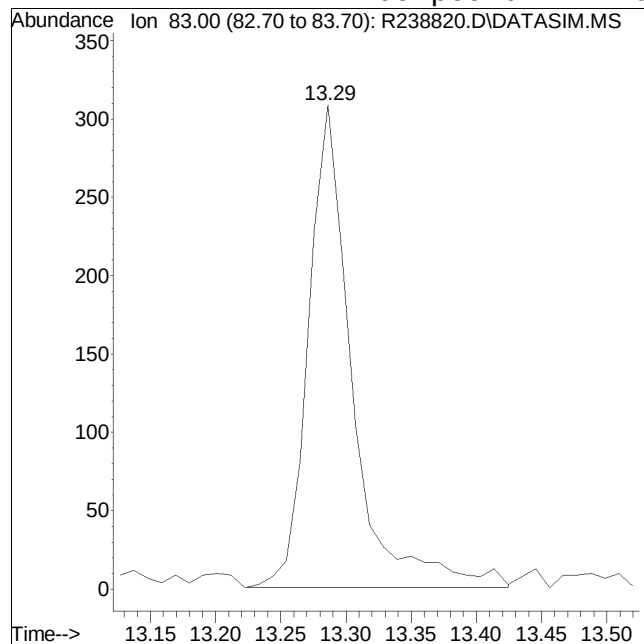
Manual Peak Response = 307 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

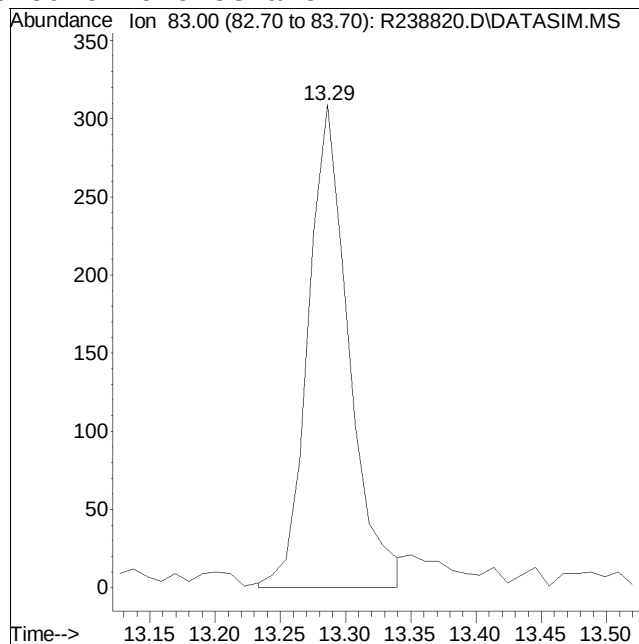
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #42: bromodichloromethane



Original Peak Response = 723

M4 = Poor automated baseline construction.

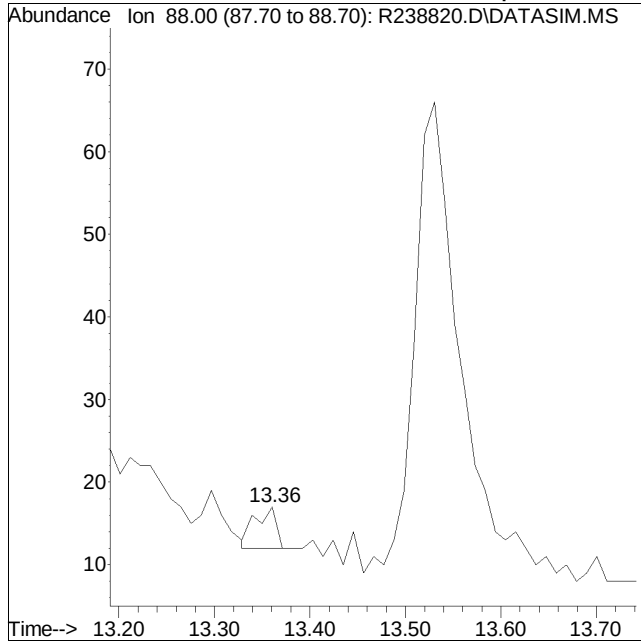


Manual Peak Response = 670 M4

Manual Integration/Negative Proof Report

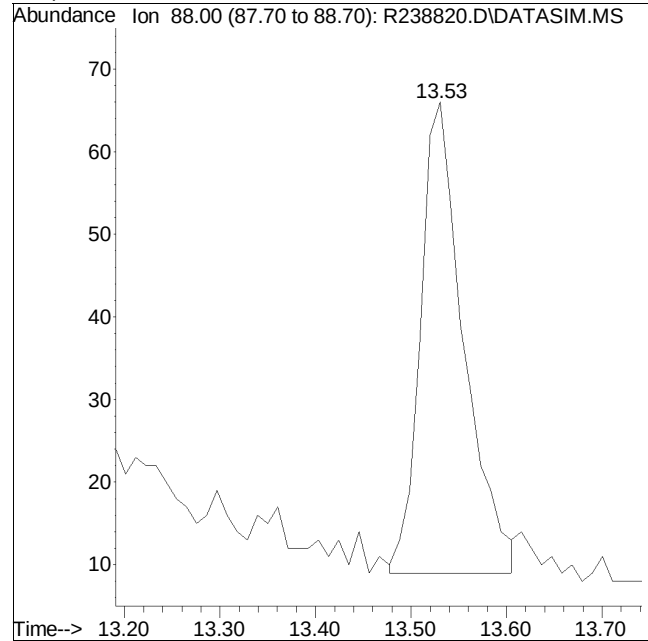
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 8

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

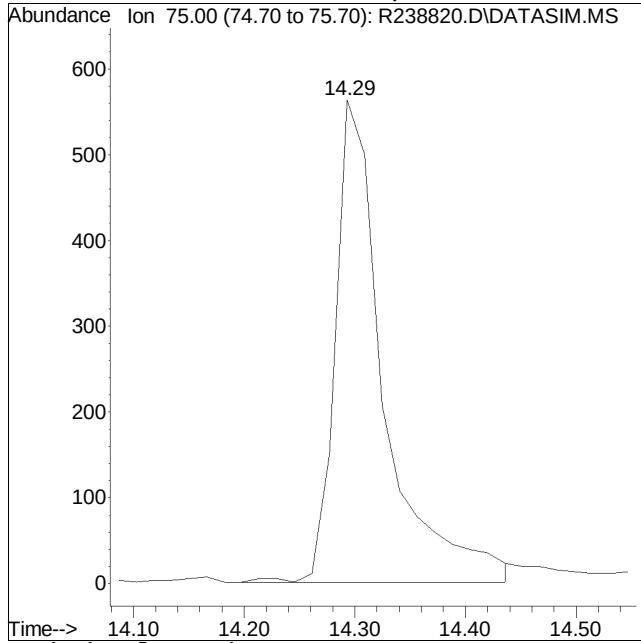


Manual Peak Response = 179 M3

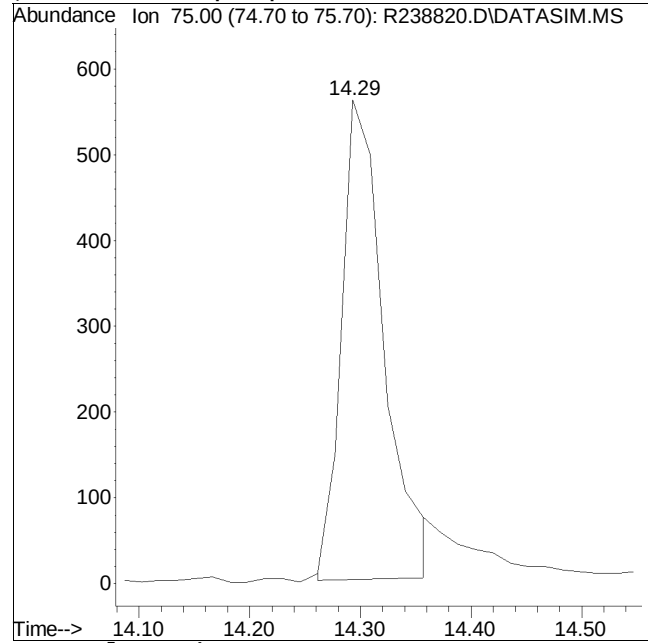
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 1724



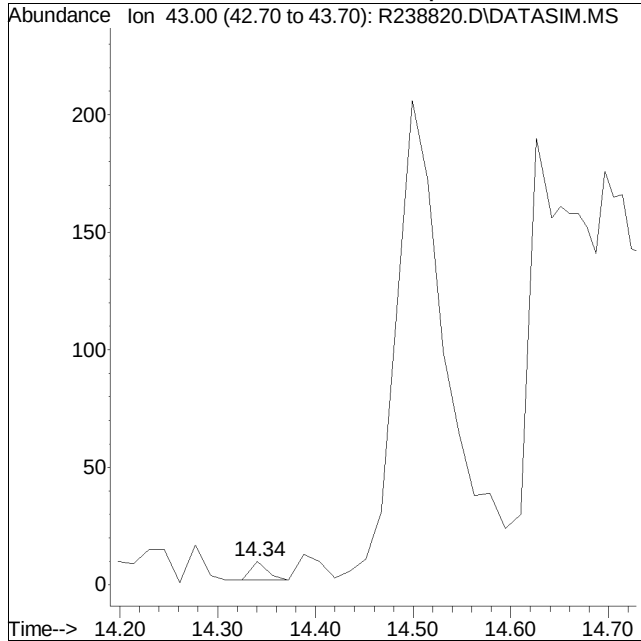
Manual Peak Response = 1501 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

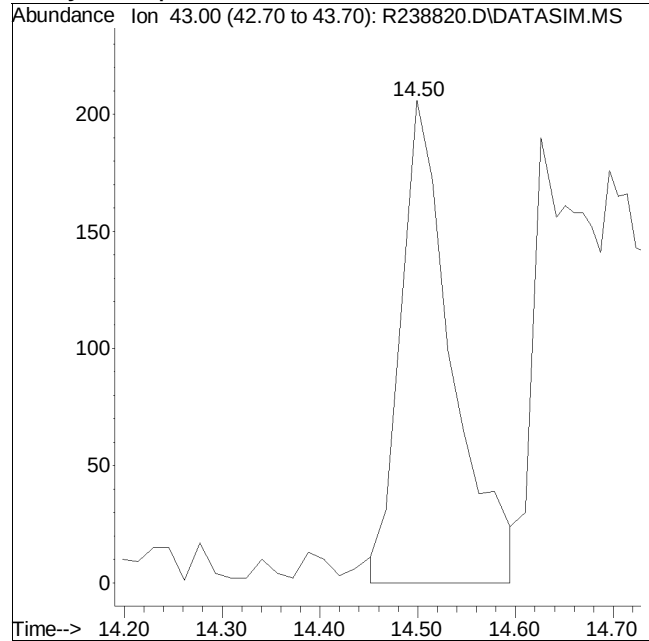
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 10

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

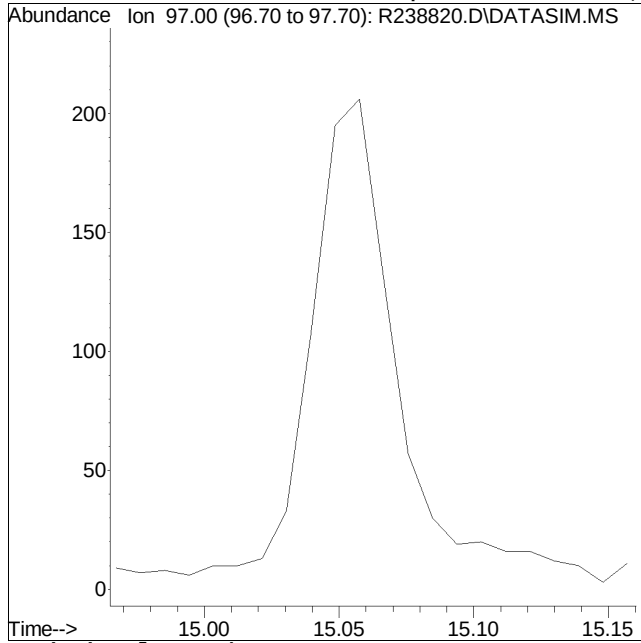


Manual Peak Response = 753 M3

Manual Integration/Negative Proof Report

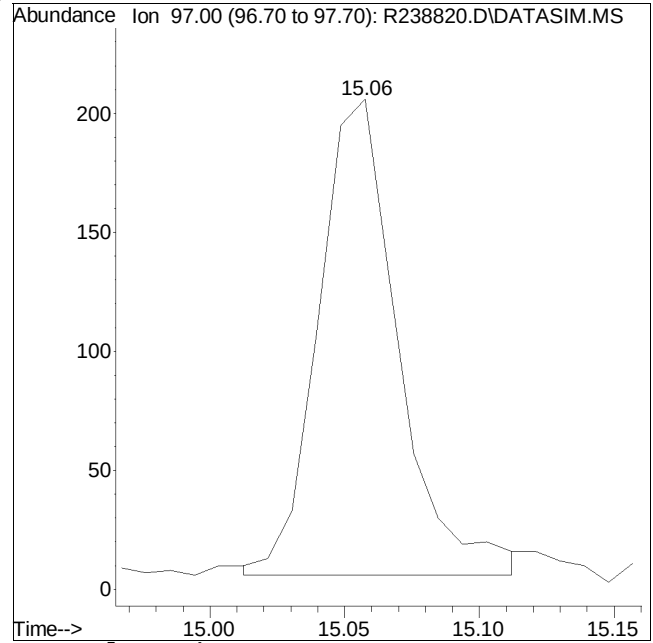
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #50: 1,1,2-trichloroethane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

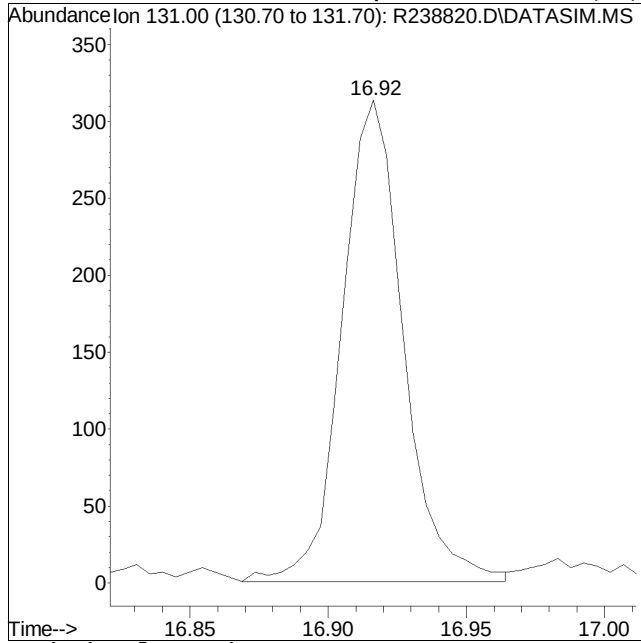


Manual Peak Response = 412 M2

Manual Integration/Negative Proof Report

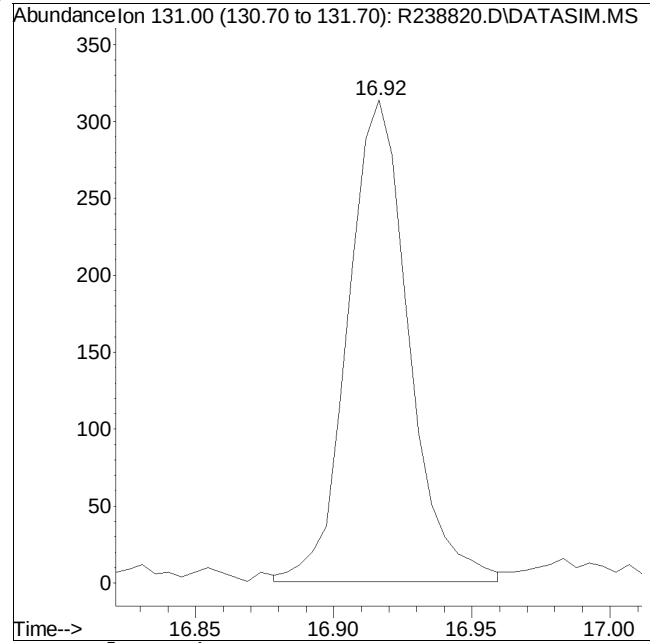
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response = 484

M4 = Poor automated baseline construction.

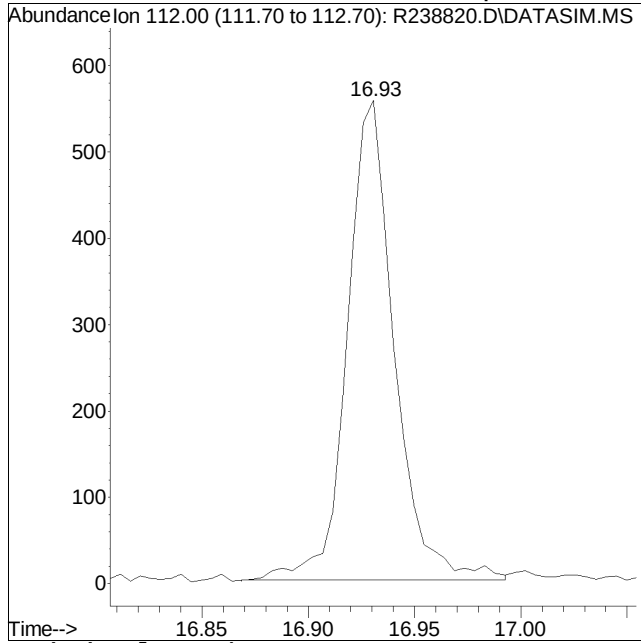


Manual Peak Response = 479 M4

Manual Integration/Negative Proof Report

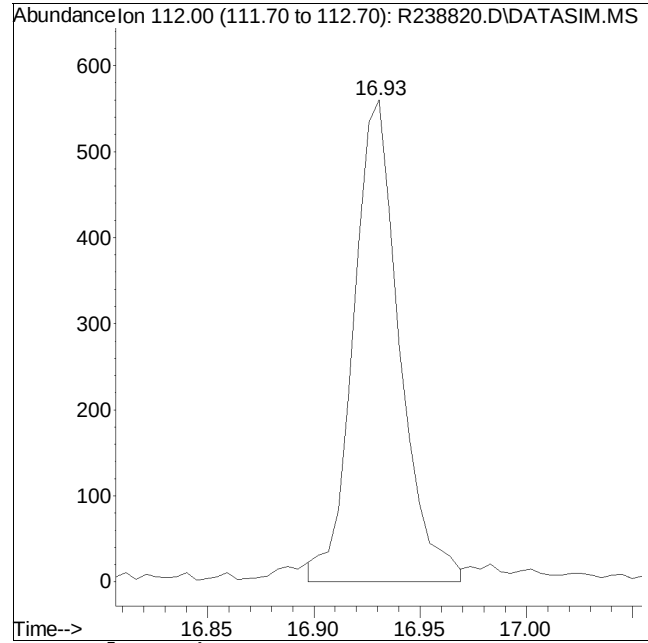
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #59: chlorobenzene



Original Peak Response = 858

M4 = Poor automated baseline construction.

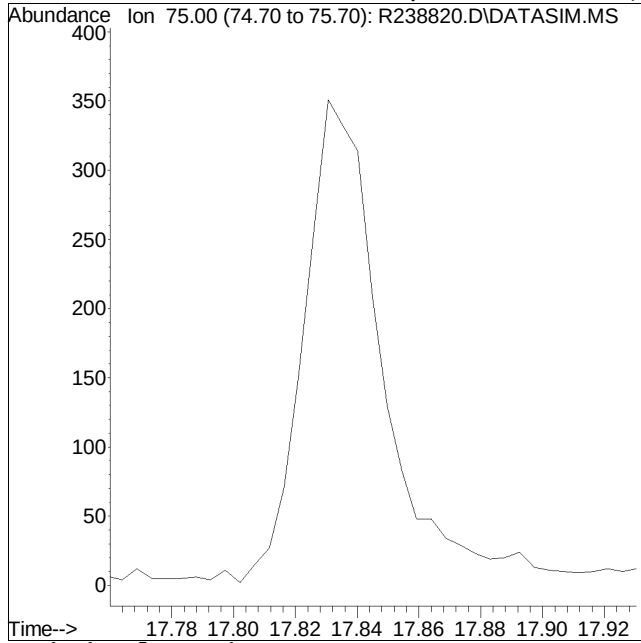


Manual Peak Response = 842 M4

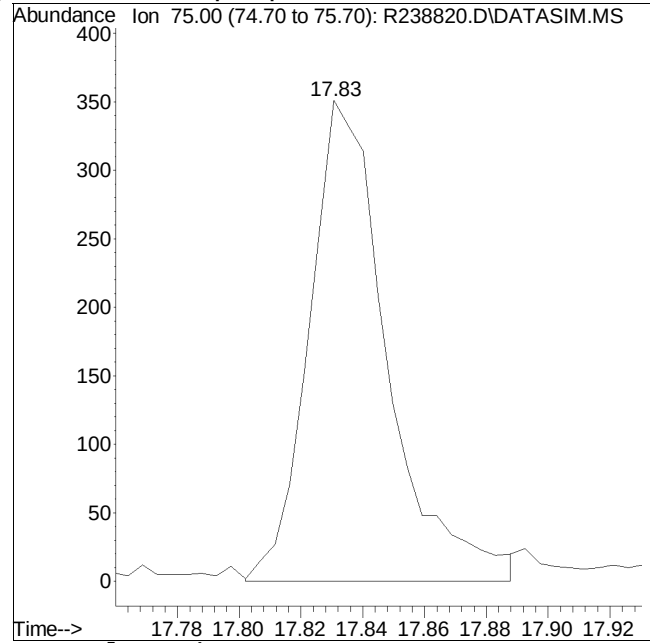
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #66: 1,2,3-trichloropropane



Original Peak Response = 0



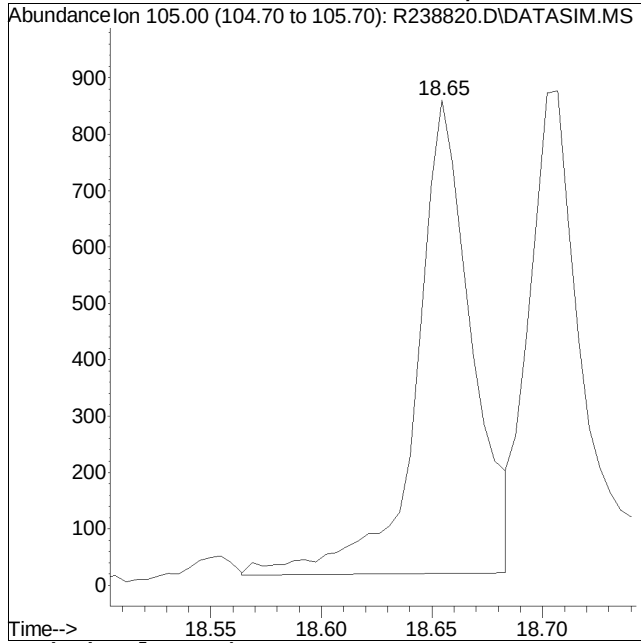
Manual Peak Response = 617 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

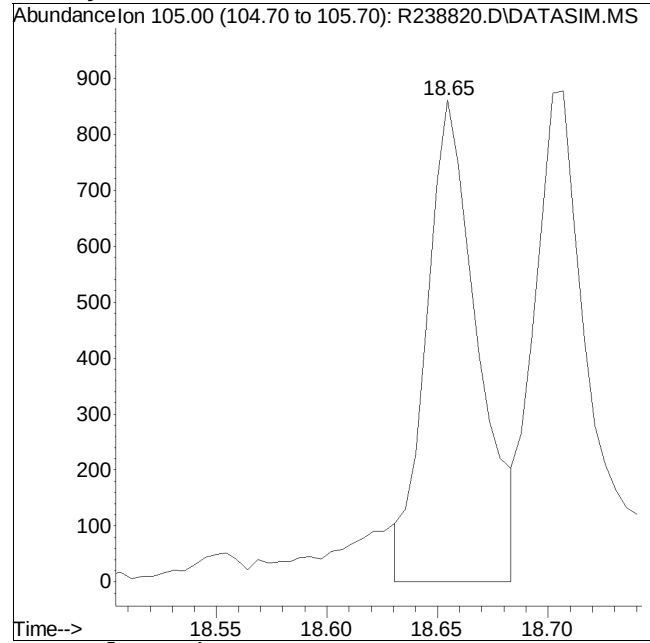
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 1473

M4 = Poor automated baseline construction.

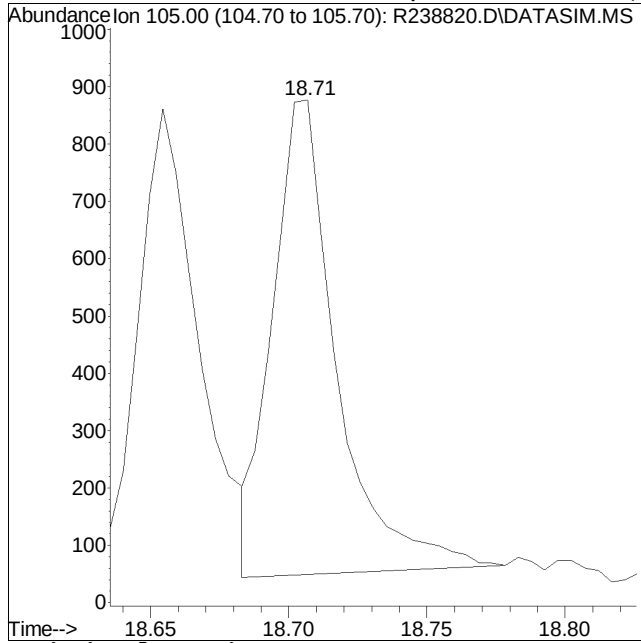


Manual Peak Response = 1381 M4

Manual Integration/Negative Proof Report

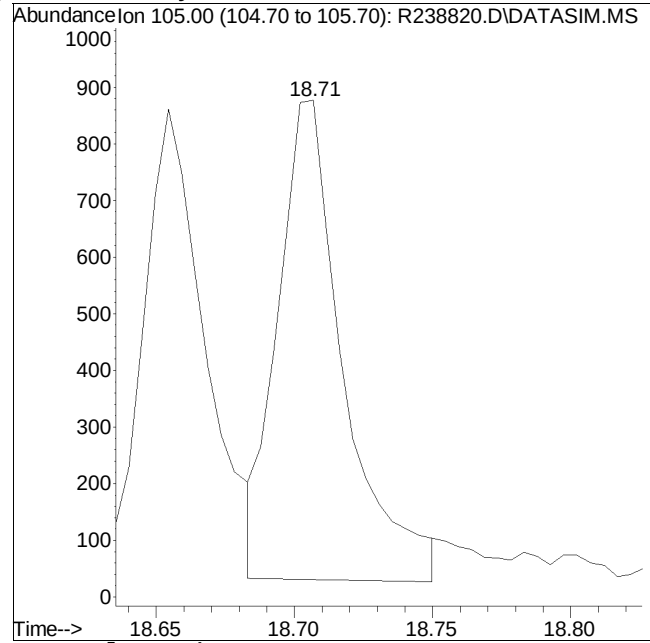
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 1339

M4 = Poor automated baseline construction.

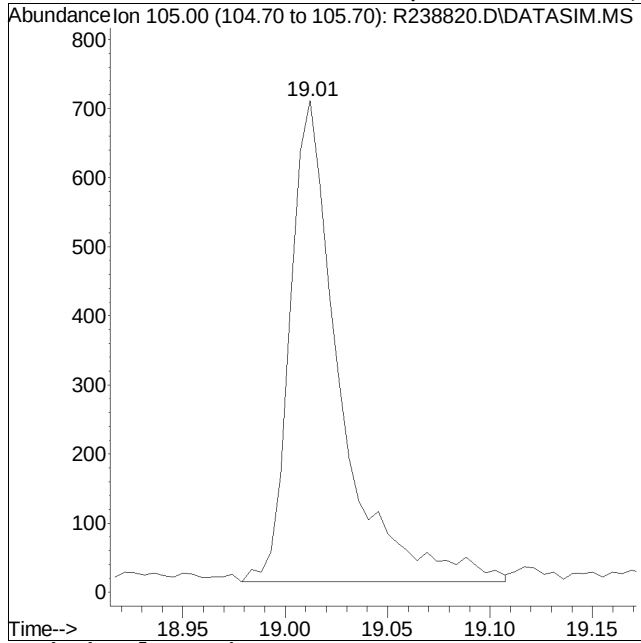


Manual Peak Response = 1394 M4

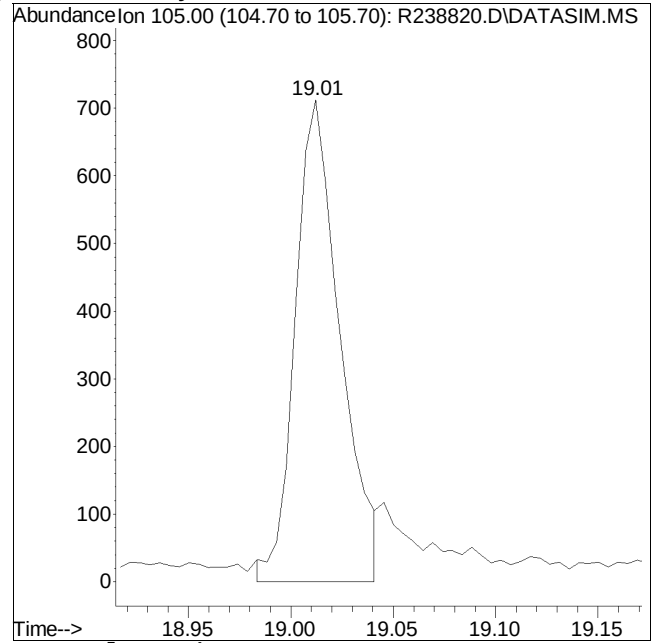
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #73: 1,2,4-trimethylbenzene



Original Peak Response = 1187



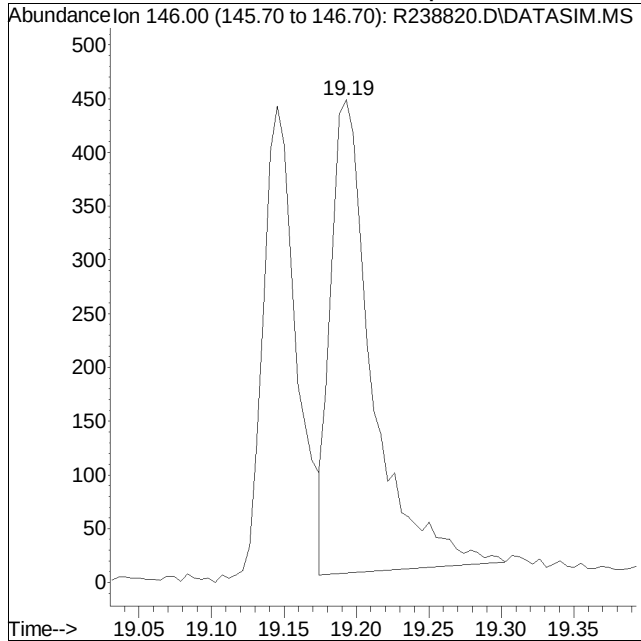
Manual Peak Response = 1081 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

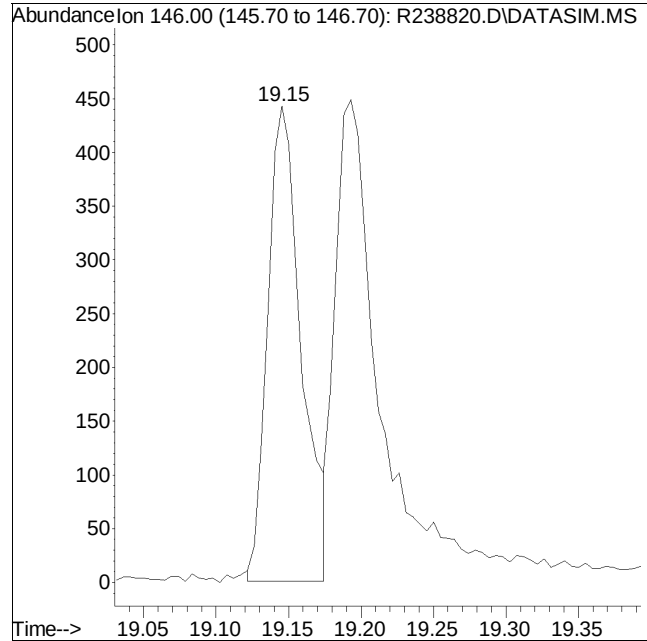
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 883

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

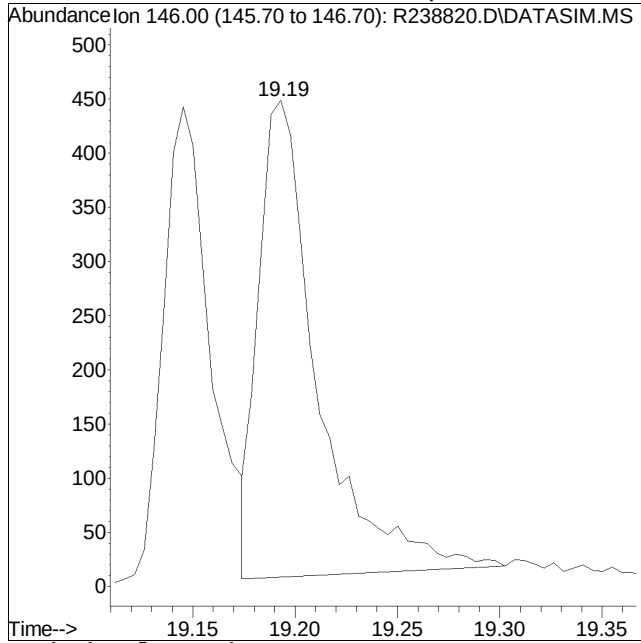


Manual Peak Response = 713 M3

Manual Integration/Negative Proof Report

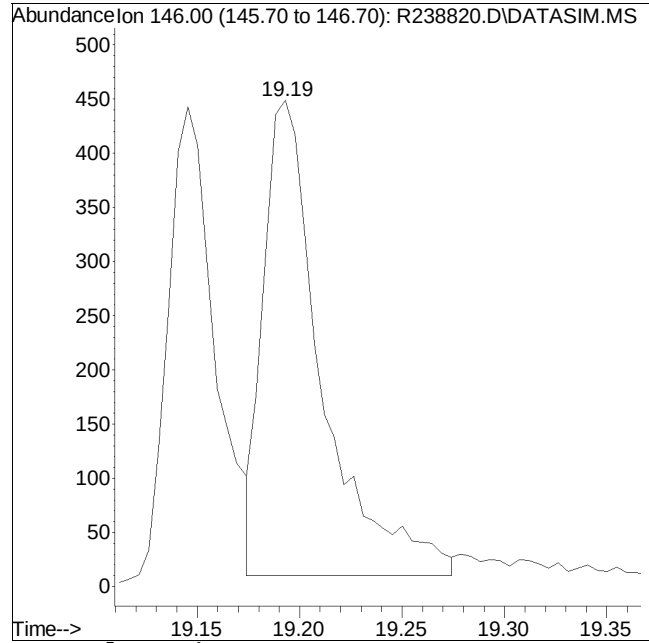
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 883

M4 = Poor automated baseline construction.

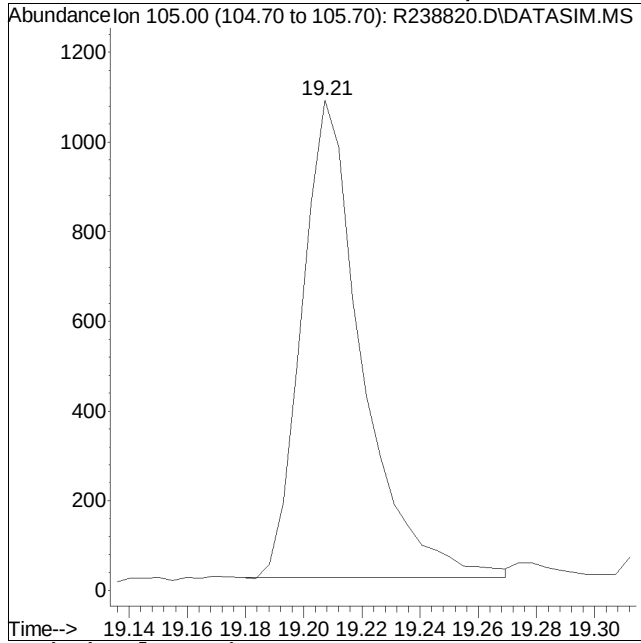


Manual Peak Response = 881 M4

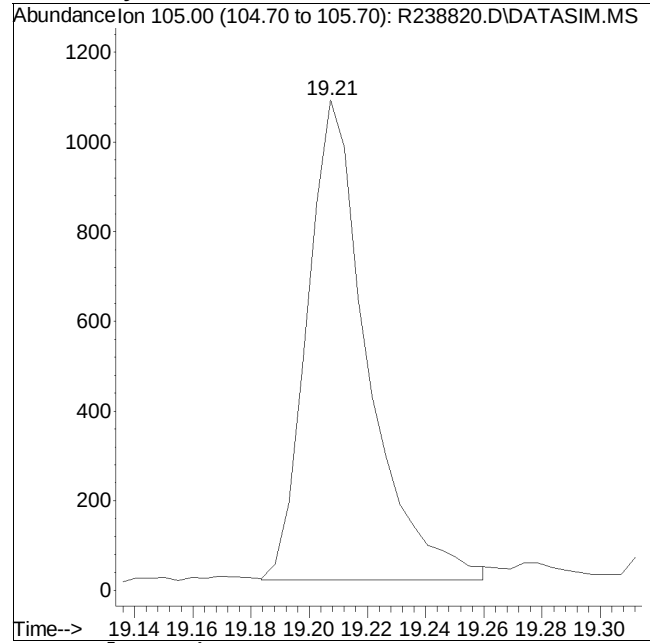
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #77: sec-butylbenzene



Original Peak Response = 1534



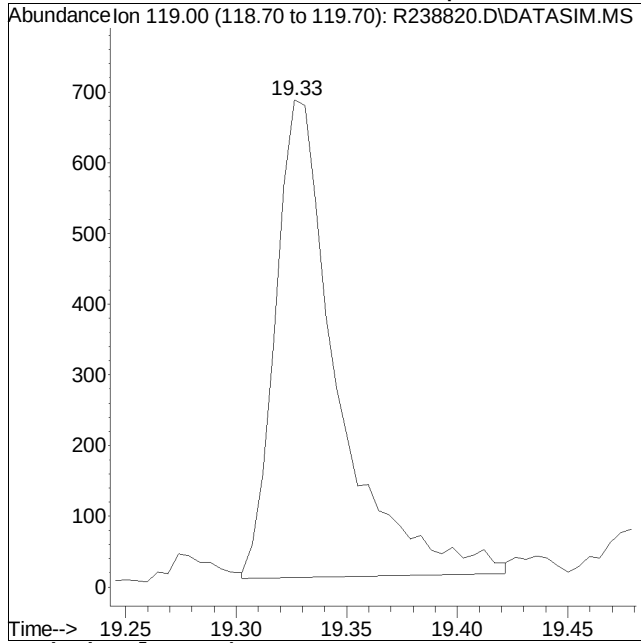
Manual Peak Response = 1551 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

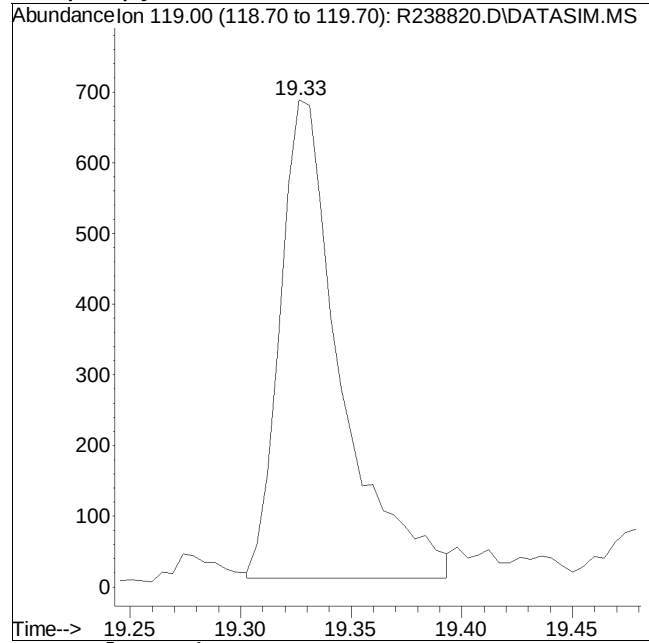
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #78: p-isopropyltoluene



Original Peak Response = 1320

M4 = Poor automated baseline construction.

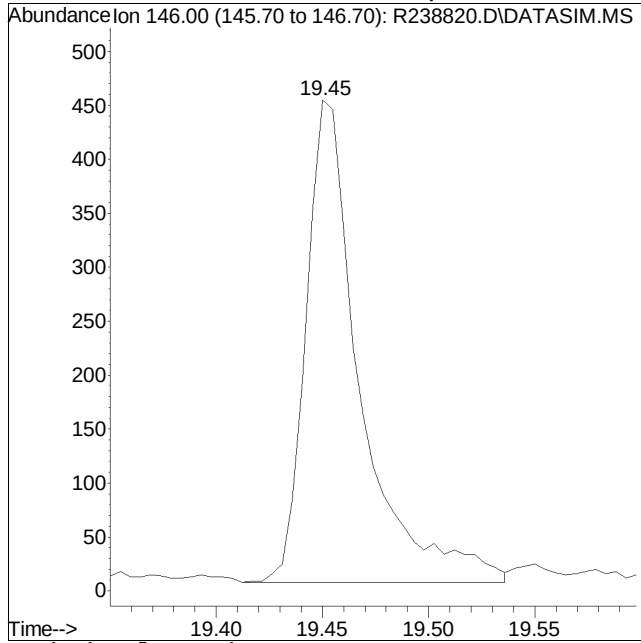


Manual Peak Response = 1285 M4

Manual Integration/Negative Proof Report

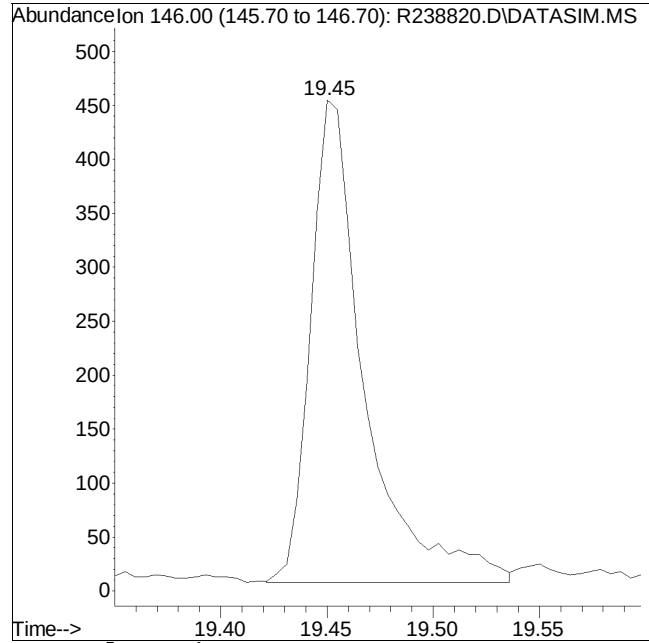
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #79: 1,2-dichlorobenzene



Original Peak Response = 796

M4 = Poor automated baseline construction.

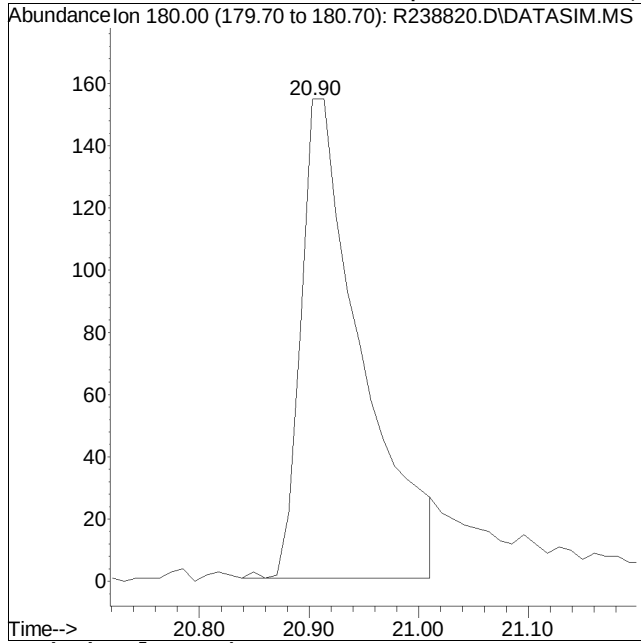


Manual Peak Response = 796 M4

Manual Integration/Negative Proof Report

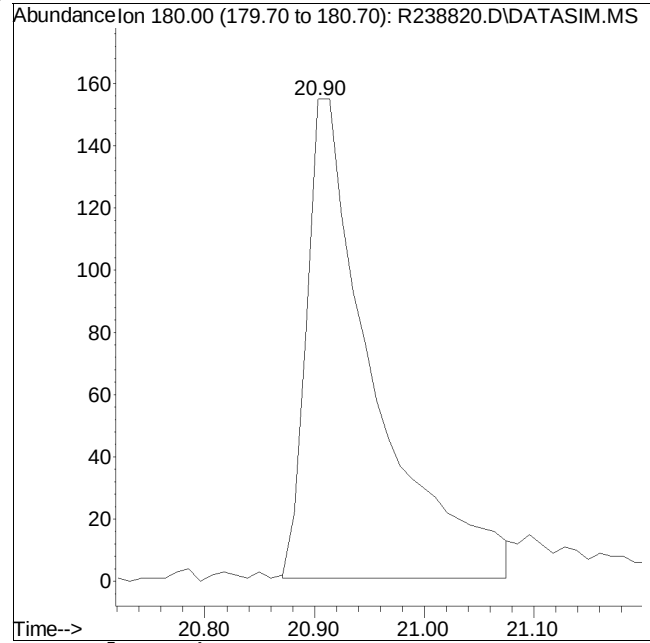
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #81: 1,2,4-trichlorobenzene



Original Peak Response = 593

M4 = Poor automated baseline construction.

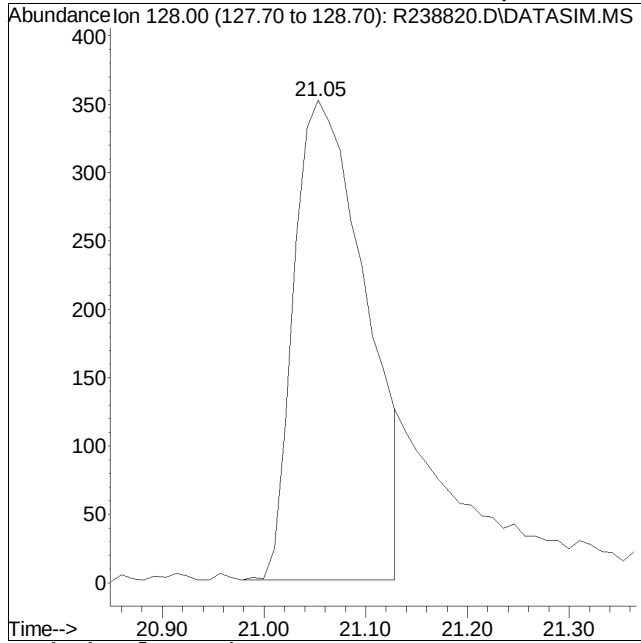


Manual Peak Response = 655 M4

Manual Integration/Negative Proof Report

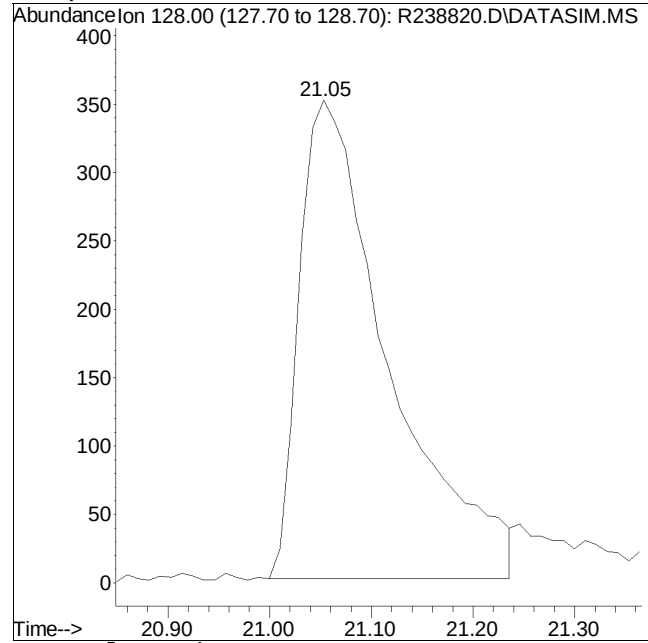
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238820.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 9:59 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.02 Quant Date : 2/9/2016 9:32 am

Compound #82: naphthalene



Original Peak Response = 1719

M4 = Poor automated baseline construction.



Manual Peak Response = 2134 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238821.D
 Acq On : 7 Feb 2016 10:32 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.04
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:55:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	187570	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	99.30%		
33) 1,4-difluorobenzene	12.54	114	429589	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	96.71%		
51) chlorobenzene-D5	16.89	54	100360	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	99.73%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	117899	10.472	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.72%		
53) toluene-D8	15.23	98	447392	10.122	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.22%		
67) bromofluorobenzene	18.06	95	241196	9.949	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.49%		
Target Compounds						
					Qvalue	
2) propylene	4.32	41	927M6	0.084	ppbV	
3) dichlorodifluoromethane	4.42	85	1033M4	0.040	ppbV	
4) chloromethane	4.65	50	607M4	0.051	ppbV	
5) Freon-114	4.80	85	1373	0.043	ppbV	97
6) vinyl chloride	4.96	62	521M4	0.043	ppbV	
7) 1,3-butadiene	5.17	54	344M4	0.038	ppbV	
8) bromomethane	5.54	94	470M4	0.045	ppbV	
9) chloroethane	5.80	64	261M4	0.046	ppbV	
10) ethanol	6.10	31	2192M3	0.218	ppbV	
11) vinyl bromide	6.28	106	410M4	0.038	ppbV	
12) acetone	6.74	43	5060M3	0.254	ppbV	
13) trichlorofluoromethane	6.84	101	1281	0.043	ppbV	96
14) isopropyl alcohol	7.13	45	2924M4	0.133	ppbV	
15) acrylonitrile	7.31	53	432M4	0.046	ppbV	
16) 1,1-dichloroethene	7.66	61	933	0.042	ppbV	96
17) tertiary butyl alcohol	7.98	59	1295M2	0.049	ppbV	
18) methylene chloride	7.83	49	1425	0.081	ppbV	96
19) 3-chloropropene	7.97	41	1155	0.061	ppbV #	89
20) carbon disulfide	8.16	76	1640	0.045	ppbV #	61
21) Freon 113	8.17	101	1101	0.042	ppbV	97
22) Halothane	8.74	117	835	0.041	ppbV	97
23) trans-1,2-dichloroethene	8.98	61	848	0.040	ppbV	96
24) 1,1-dichloroethane	9.21	63	1002	0.041	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238821.D
 Acq On : 7 Feb 2016 10:32 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.04
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:55:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.43	73	1375M4	0.041	ppbV	
26) vinyl acetate	9.46	43	1108M6	0.040	ppbV	
27) 2-butanone	9.82	43	1278M3	0.041	ppbV	
28) cis-1,2-dichloroethene	10.19	61	798	0.042	ppbV	96
29) Ethyl Acetate	0.00		0	N.D.	d	
30) chloroform	10.53	83	1157	0.043	ppbV #	96
31) Tetrahydrofuran	11.13	42	714	0.044	ppbV	99
32) 1,2-dichloroethane	11.36	62	815	0.042	ppbV #	84
34) hexane	10.43	57	879	0.046	ppbV #	59
36) 1,1,1-trichloroethane	11.64	97	1186	0.044	ppbV	97
37) benzene	12.15	78	1875	0.052	ppbV	99
38) carbon tetrachloride	12.32	117	1210	0.041	ppbV	99
39) cyclohexane	12.46	56	988M4	0.048	ppbV	
40) dibromomethane	13.04	93	755	0.047	ppbV	96
41) 1,2-dichloropropane	13.07	63	614M4	0.041	ppbV	
42) bromodichloromethane	13.29	83	1303	0.043	ppbV	100
43) 1,4-dioxane	13.52	88	360M3	0.043	ppbV	
44) trichloroethene	13.33	130	747	0.042	ppbV	95
45) 2,2,4-trimethylpentane	13.36	57	2715	0.042	ppbV	96
46) heptane	13.65	43	1110M4	0.041	ppbV	
47) cis-1,3-dichloropropene	14.29	75	2881M4	0.036	ppbV	
48) 4-methyl-2-pentanone	14.48	43	1513M3	0.039	ppbV	
49) trans-1,3-dichloropropene	14.88	75	1034	0.038	ppbV #	77
50) 1,1,2-trichloroethane	15.05	97	811	0.040	ppbV	87
52) toluene	15.32	91	2965M4	0.045	ppbV	
54) 2-hexanone	15.72	43	1280M3	0.025	ppbV	
55) dibromochloromethane	15.74	129	1612	0.040	ppbV	96
56) 1,2-dibromoethane	15.97	107	1288	0.038	ppbV	97
57) tetrachloroethene	16.36	166	1175	0.041	ppbV	95
58) 1,1,1,2-tetrachloroethane	16.92	131	924	0.042	ppbV	98
59) chlorobenzene	16.93	112	1533M4	0.039	ppbV	
60) ethylbenzene	17.22	91	2449	0.040	ppbV	98
61) m+p-xylene	17.36	91	3678	0.078	ppbV	99
62) bromoform	17.45	173	1174	0.038	ppbV	98
63) styrene	17.65	104	1378	0.038	ppbV	97
64) 1,1,2,2-tetrachloroethane	17.73	83	1513	0.040	ppbV	98
65) o-xylene	17.72	91	2047	0.042	ppbV	100
66) 1,2,3-trichloropropane	17.83	75	1204M2	0.040	ppbV	
68) isopropylbenzene	18.16	105	2607	0.040	ppbV	95
69) bromobenzene	18.25	77	1419M4	0.039	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238821.D
 Acq On : 7 Feb 2016 10:32 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.04
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 09:55:49 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

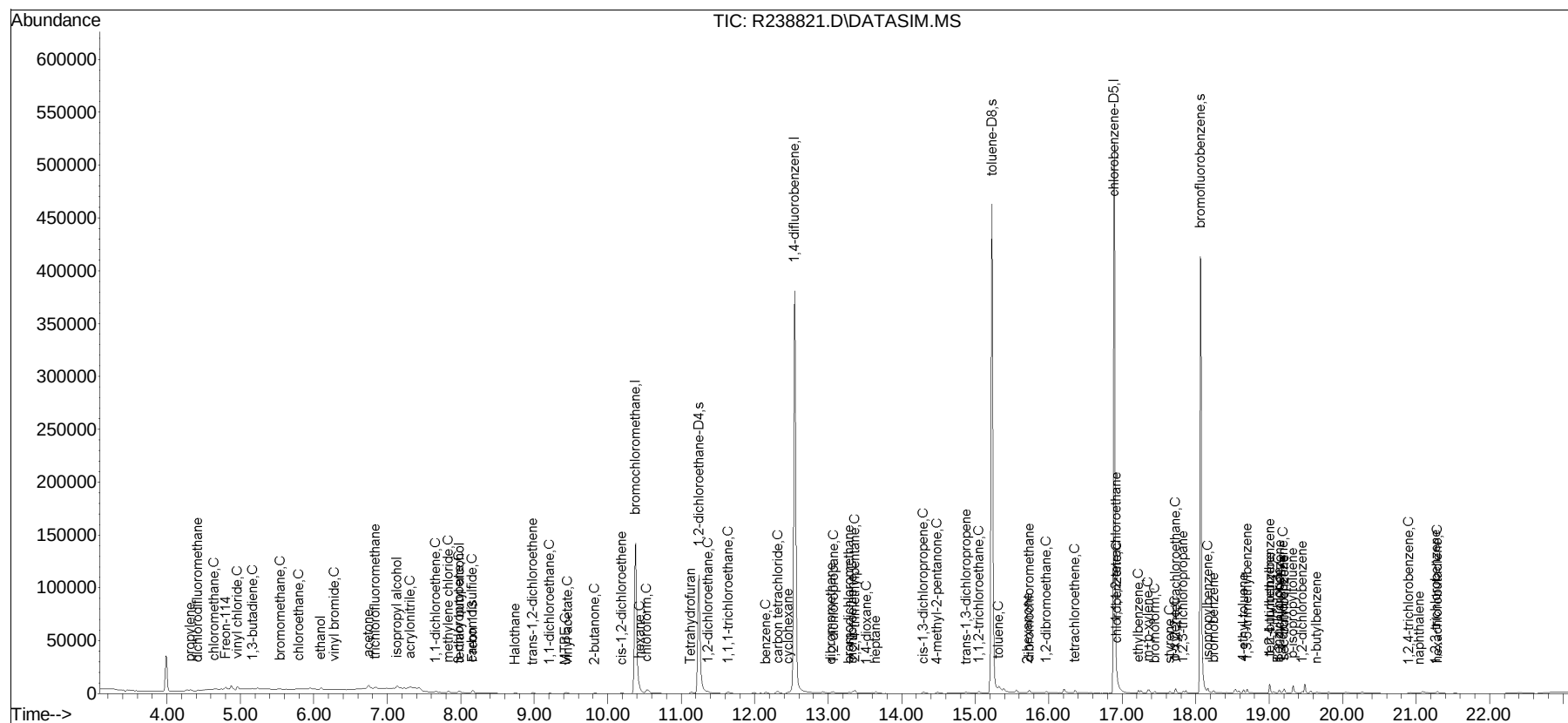
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.65	105	2435M4	0.034	ppbV	
71) 1,3,5-trimethylbenzene	18.70	105	2468M4	0.042	ppbV	
72) tert-butylbenzene	19.01	119	2376	0.040	ppbV	99
73) 1,2,4-trimethylbenzene	19.01	105	2035	0.035	ppbV #	90
74) Benzyl Chloride	19.13	91	1437	0.026	ppbV	96
75) 1,3-dichlorobenzene	19.14	146	1373	0.030	ppbV	97
76) 1,4-dichlorobenzene	19.19	146	1723	0.037	ppbV	99
77) sec-butylbenzene	19.20	105	3184	0.037	ppbV	96
78) p-isopropyltoluene	19.32	119	2571	0.035	ppbV	95
79) 1,2-dichlorobenzene	19.45	146	1551	0.035	ppbV	98
80) n-butylbenzene	19.65	91	2248M1	0.031	ppbV	
81) 1,2,4-trichlorobenzene	20.90	180	1165M1	0.028	ppbV	
82) naphthalene	21.04	128	2780M1	0.031	ppbV	
83) 1,2,3-trichlorobenzene	21.27	180	1226M1	0.030	ppbV	
84) hexachlorobutadiene	21.29	225	1153	0.034	ppbV #	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path   : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File  : R238821.D
Acq On     : 7 Feb 2016 10:32 pm
Operator   : AIRPIAN02:MR
Sample     : IT015-SIMSTD0.04
Misc       : WG863731
ALS Vial   : 5 Sample Multiplier: 1
```

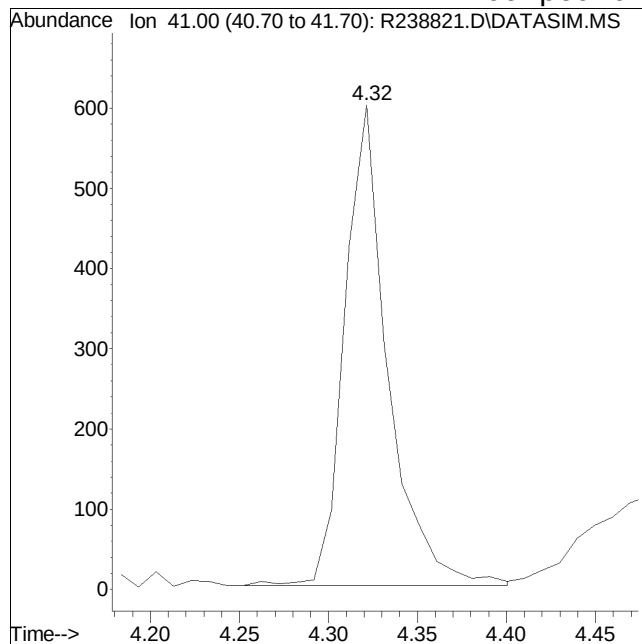
Quant Time: Feb 09 09:55:49 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

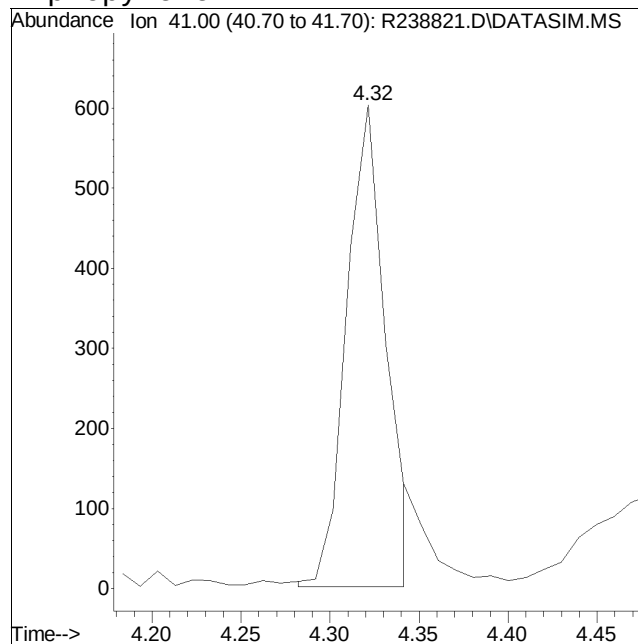
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 1011

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

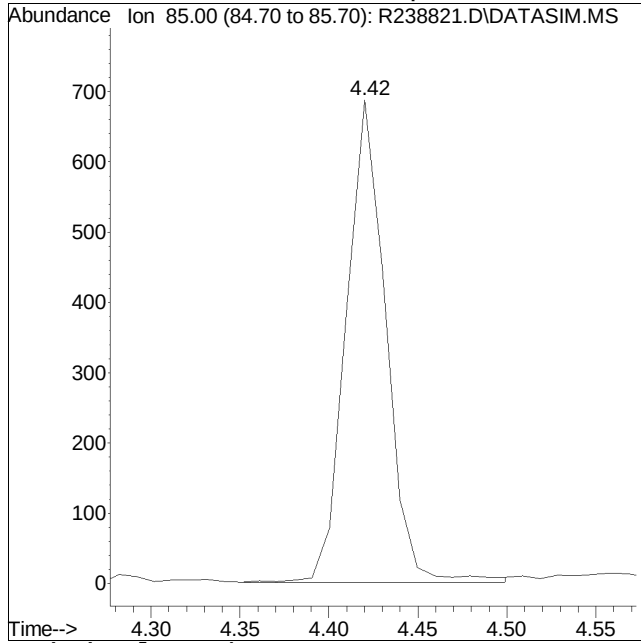


Manual Peak Response = 927 M6

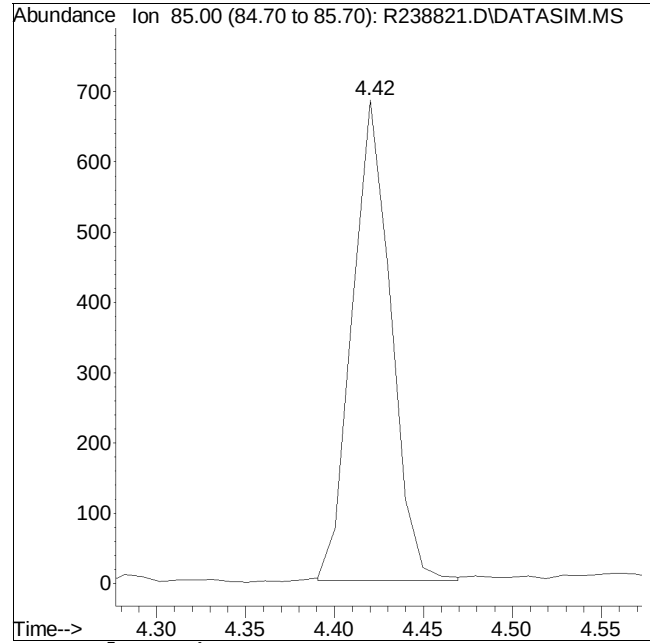
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #3: dichlorodifluoromethane



Original Peak Response = 1064



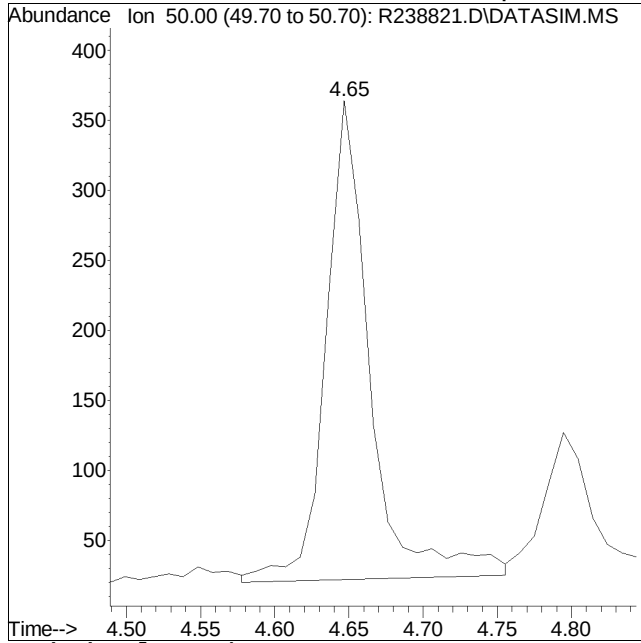
Manual Peak Response = 1033 M4

M4 = Poor automated baseline construction.

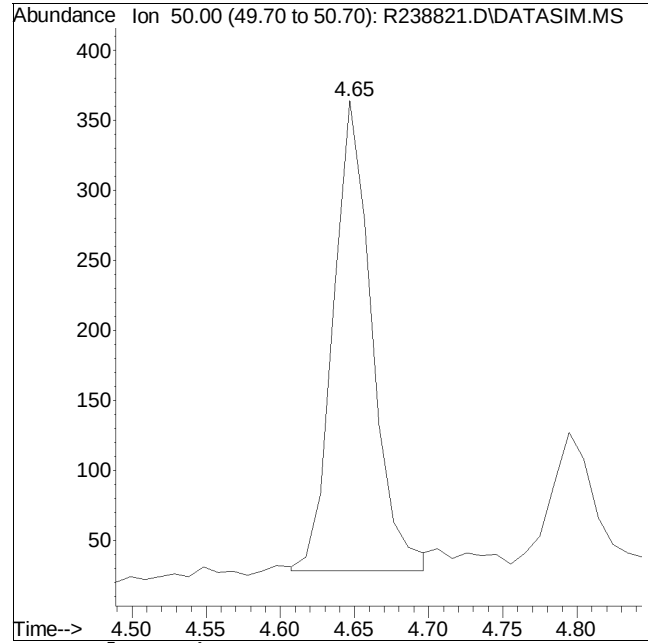
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #4: chloromethane



Original Peak Response = 709



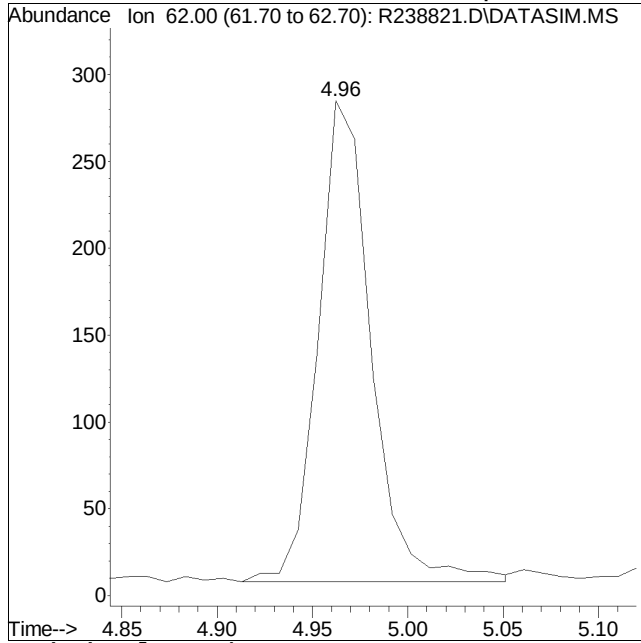
Manual Peak Response = 607 M4

M4 = Poor automated baseline construction.

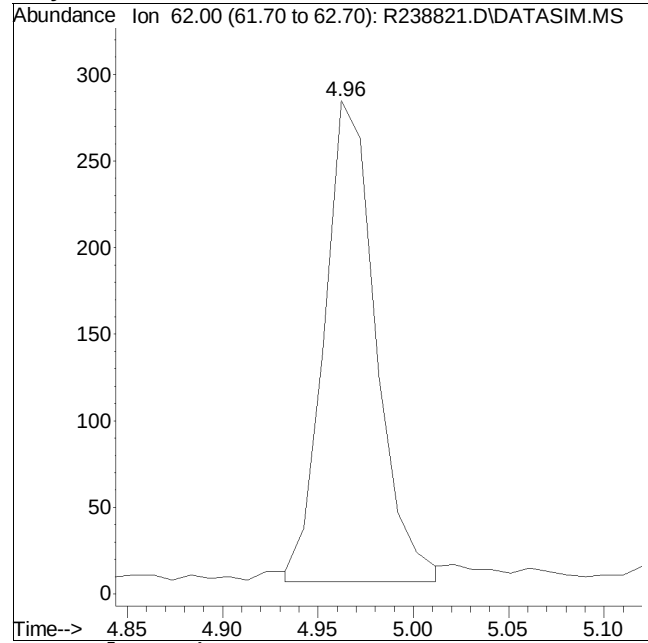
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #6: vinyl chloride



Original Peak Response = 537



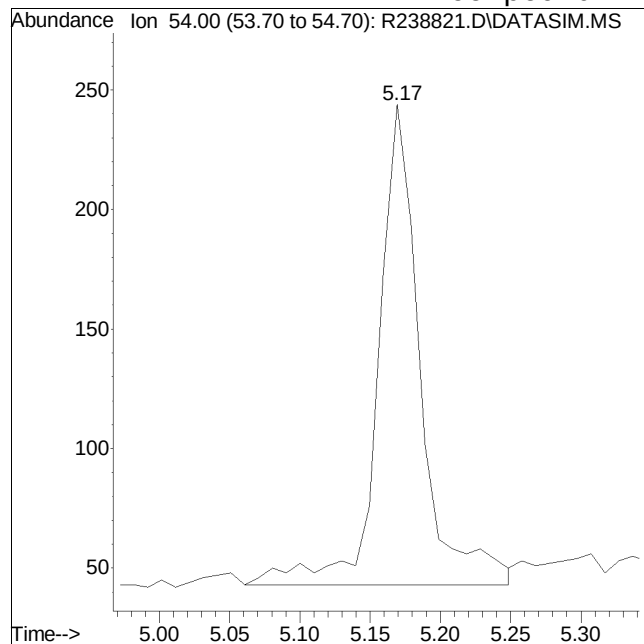
Manual Peak Response = 521 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

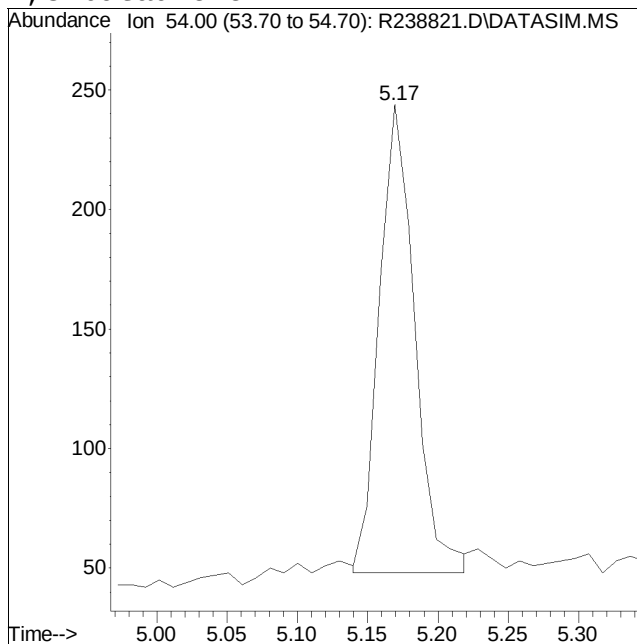
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #7: 1,3-butadiene



Original Peak Response = 420

M4 = Poor automated baseline construction.

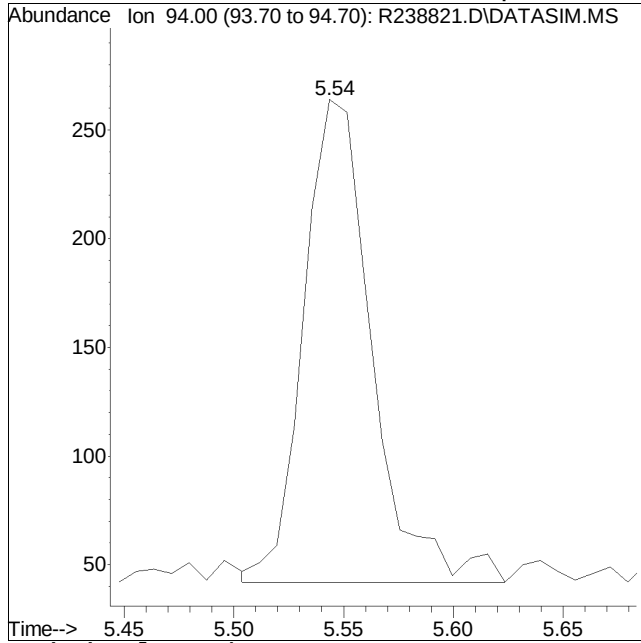


Manual Peak Response = 344 M4

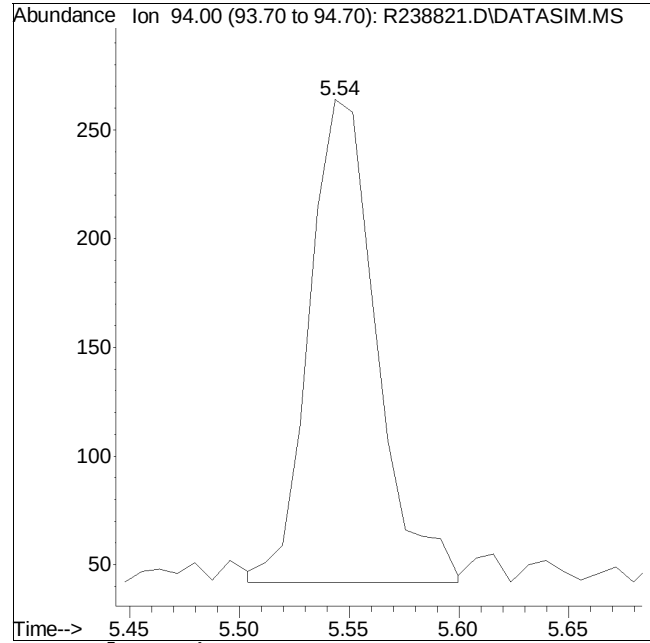
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #8: bromomethane



Original Peak Response = 481



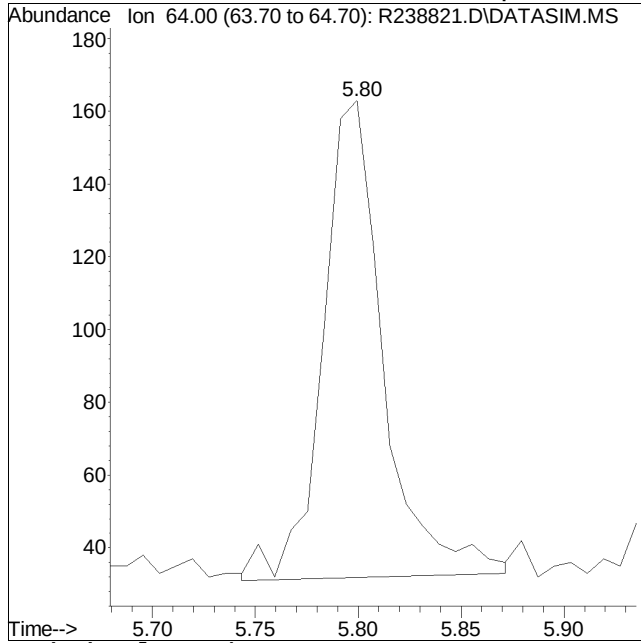
Manual Peak Response = 470 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

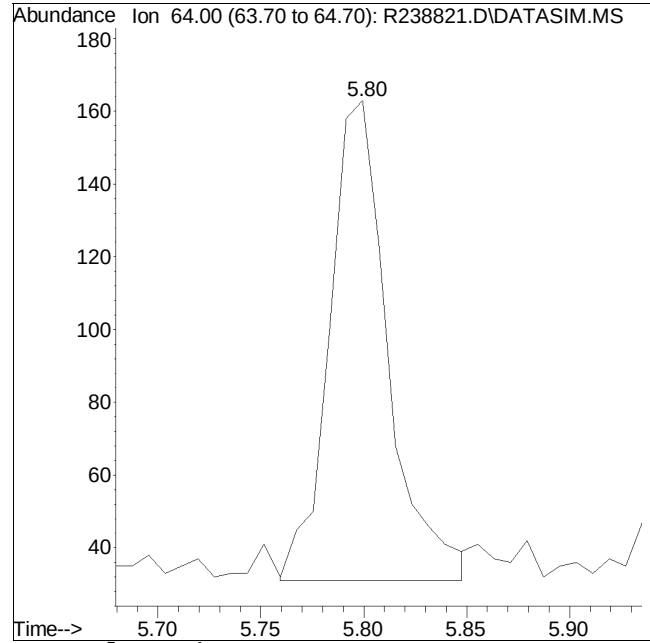
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #9: chloroethane



Original Peak Response = 269

M4 = Poor automated baseline construction.

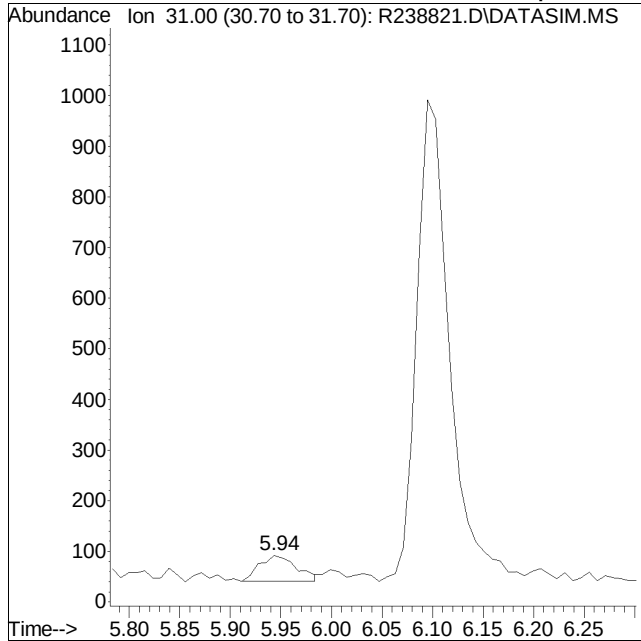


Manual Peak Response = 261 M4

Manual Integration/Negative Proof Report

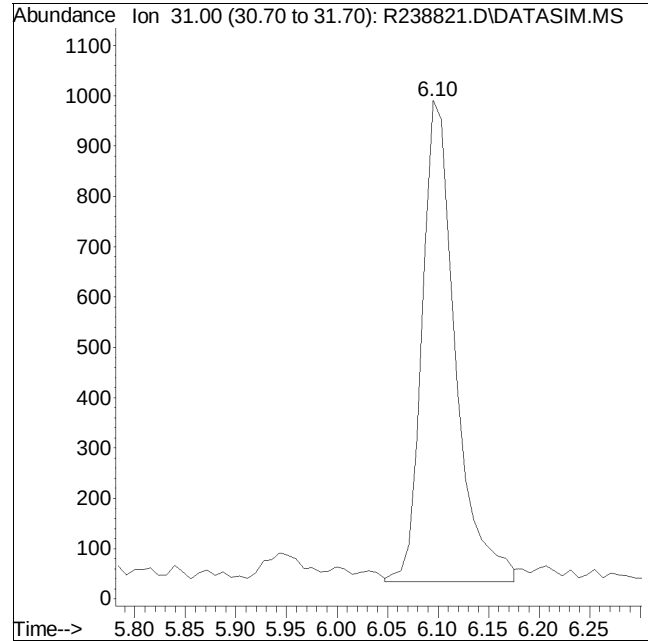
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #10: ethanol



Original Peak Response = 131

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

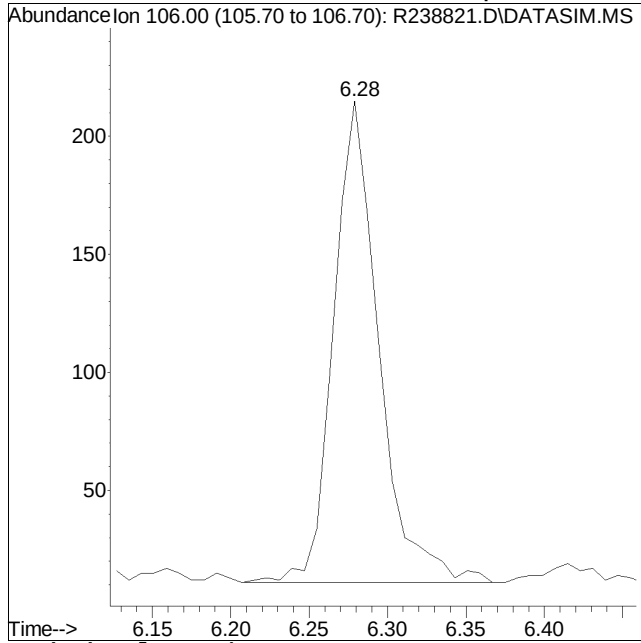


Manual Peak Response = 2192 M3

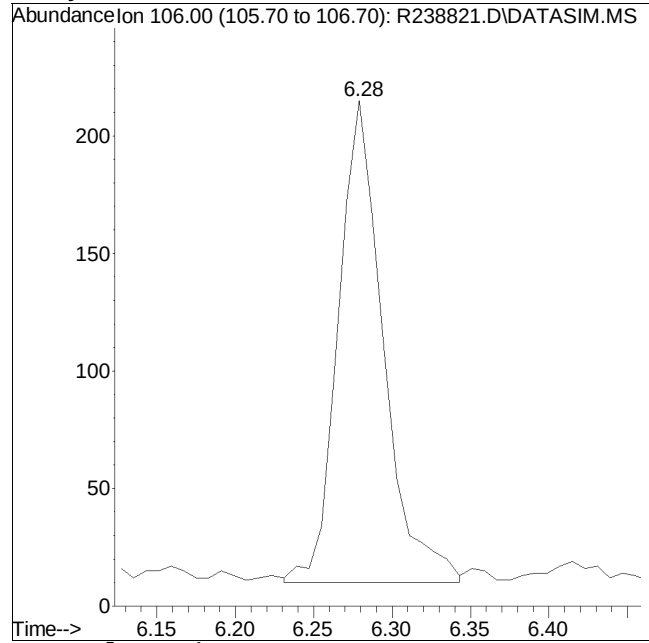
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #11: vinyl bromide



Original Peak Response = 410



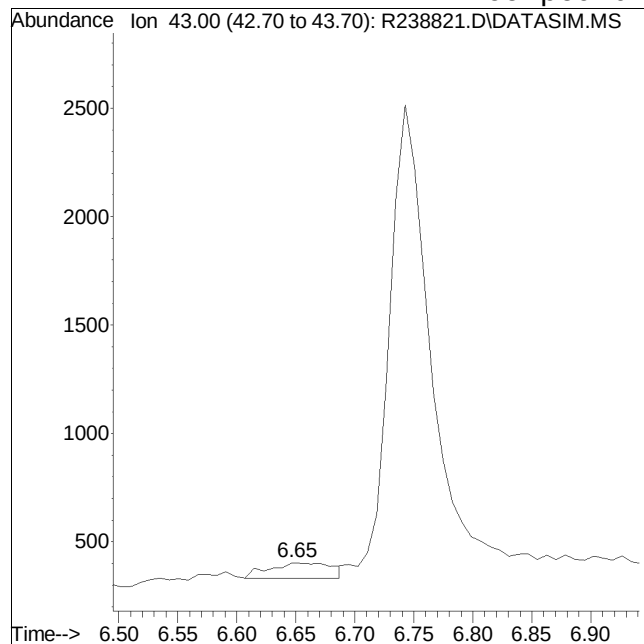
Manual Peak Response = 410 M4

M4 = Poor automated baseline construction.

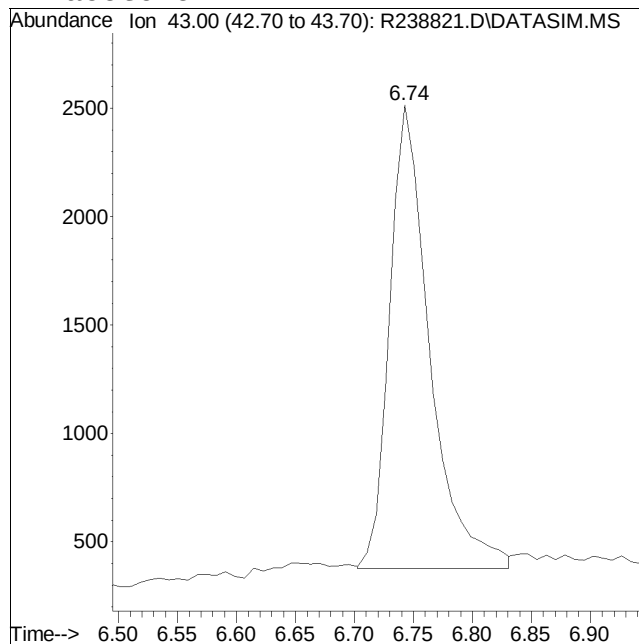
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #12: acetone



Original Peak Response = 266



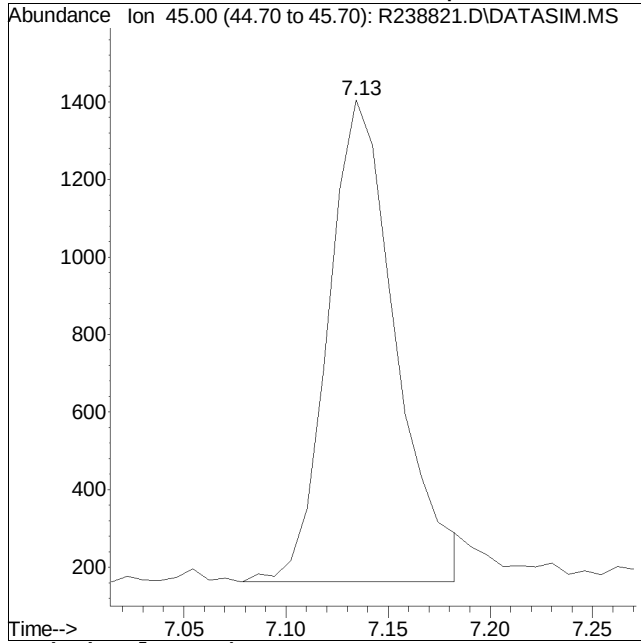
Manual Peak Response = 5060 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

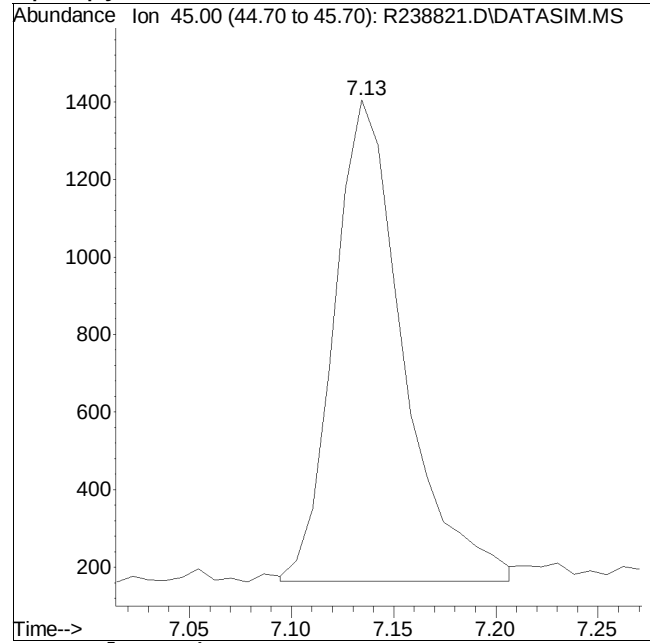
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #14: isopropyl alcohol



Original Peak Response = 2858



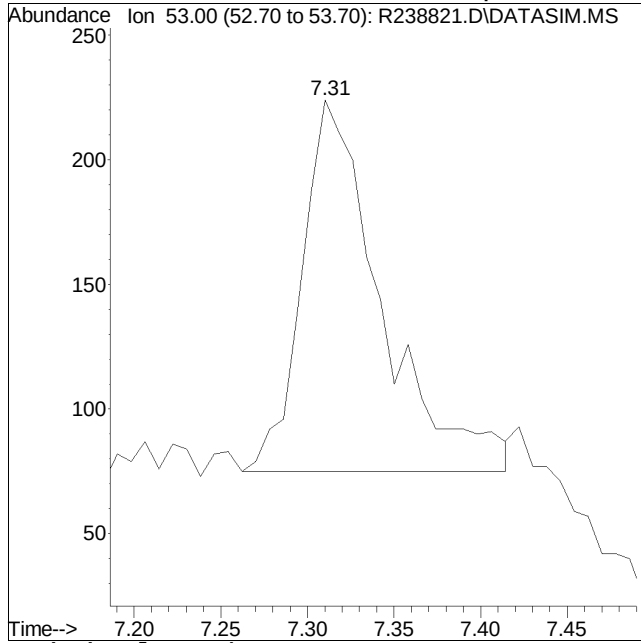
Manual Peak Response = 2924 M4

M4 = Poor automated baseline construction.

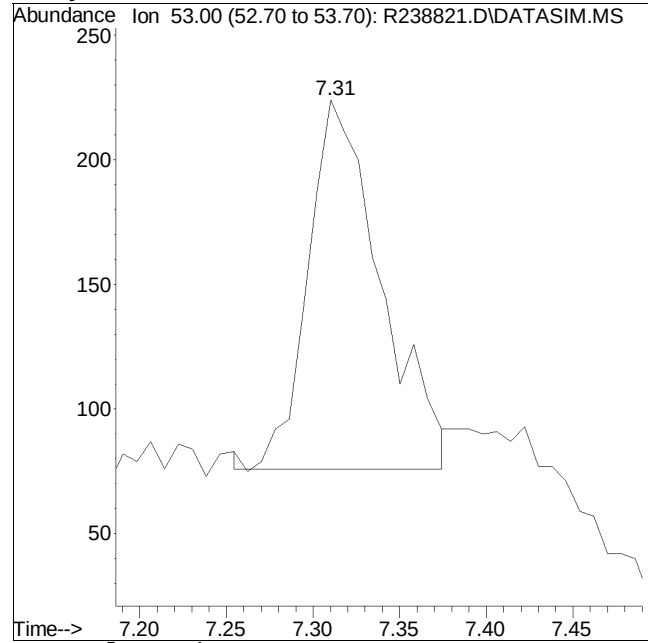
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 476



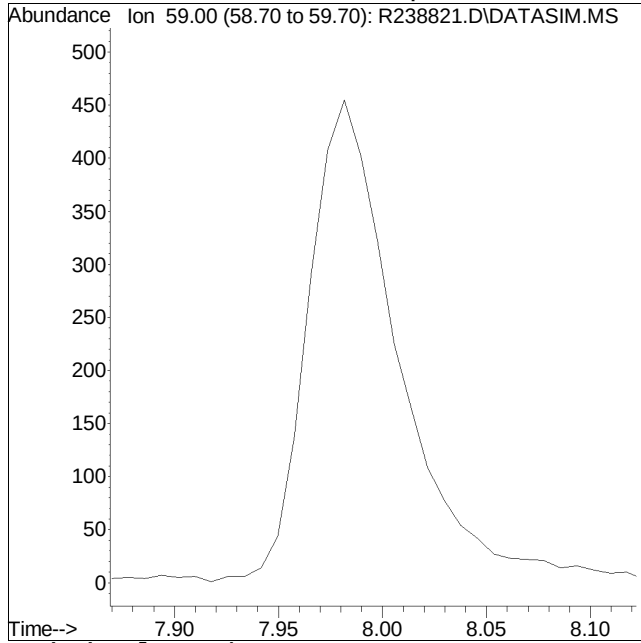
Manual Peak Response = 432 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

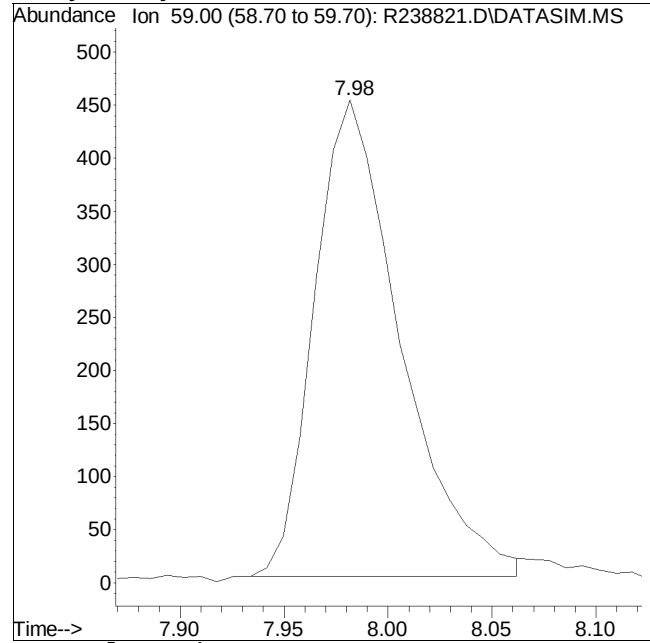
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #17: tertiary butyl alcohol



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

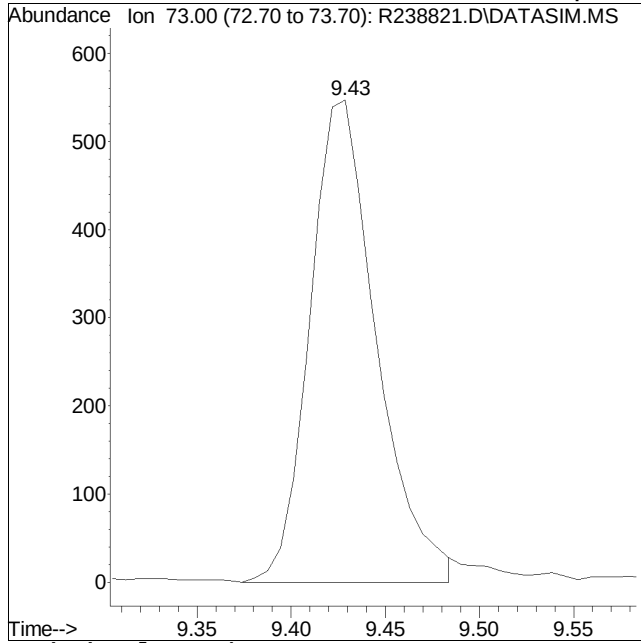


Manual Peak Response = 1295 M2

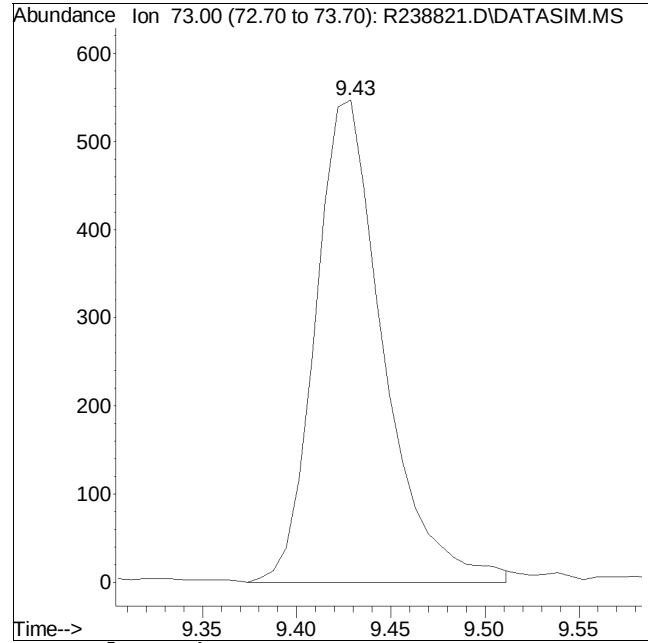
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #25: MTBE



Original Peak Response = 1346



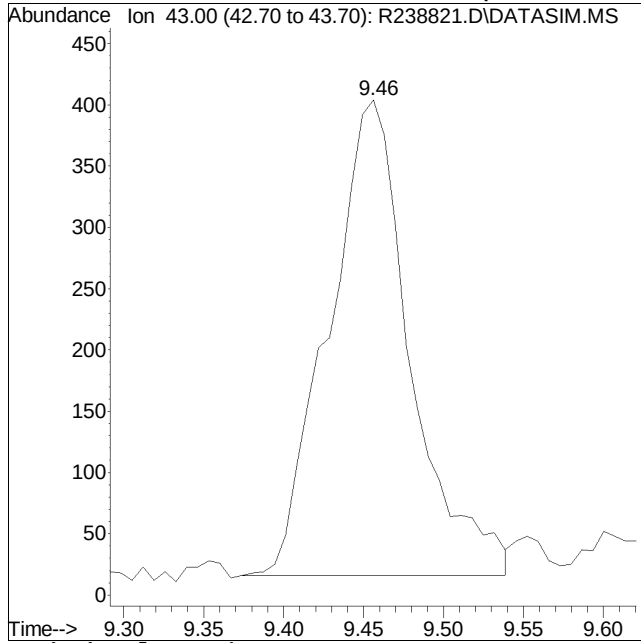
Manual Peak Response = 1375 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

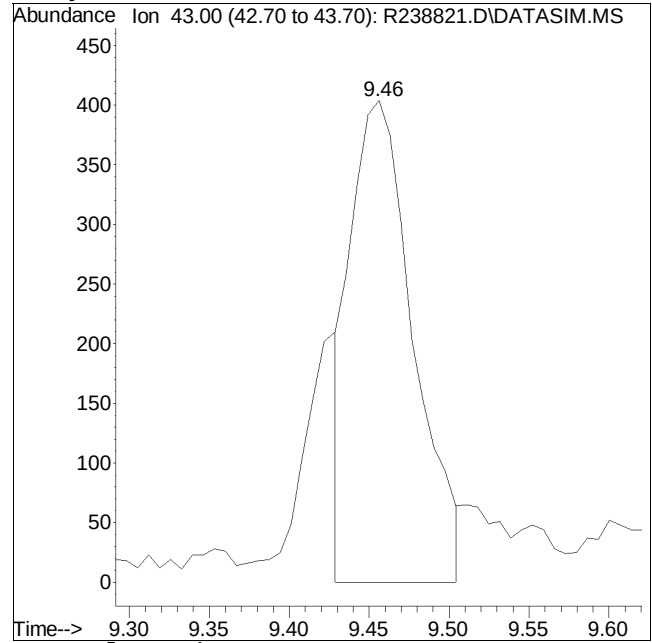
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #26: vinyl acetate



Original Peak Response = 1381

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

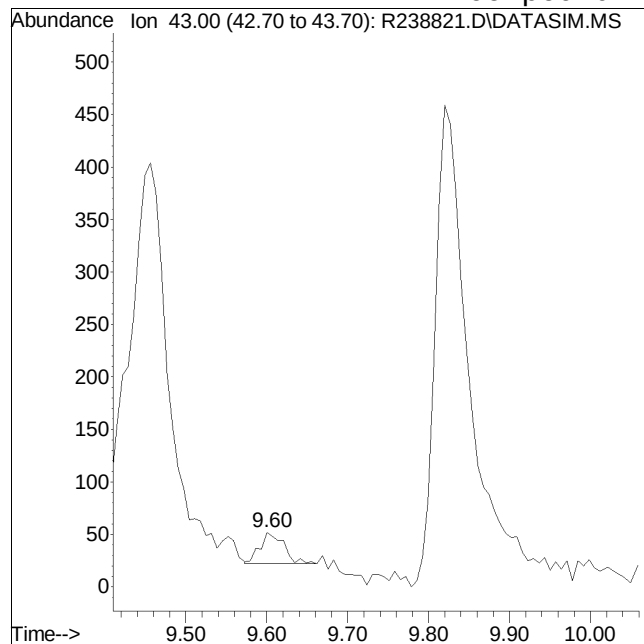


Manual Peak Response = 1108 M6

Manual Integration/Negative Proof Report

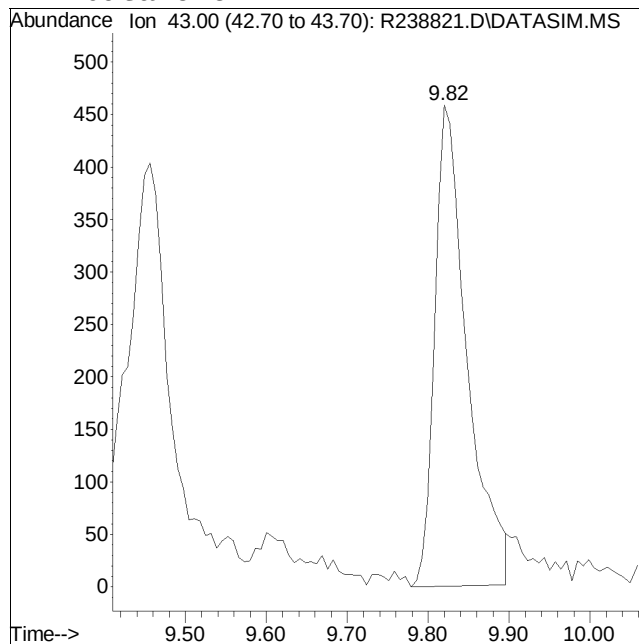
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #27: 2-butanone



Original Peak Response = 61

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

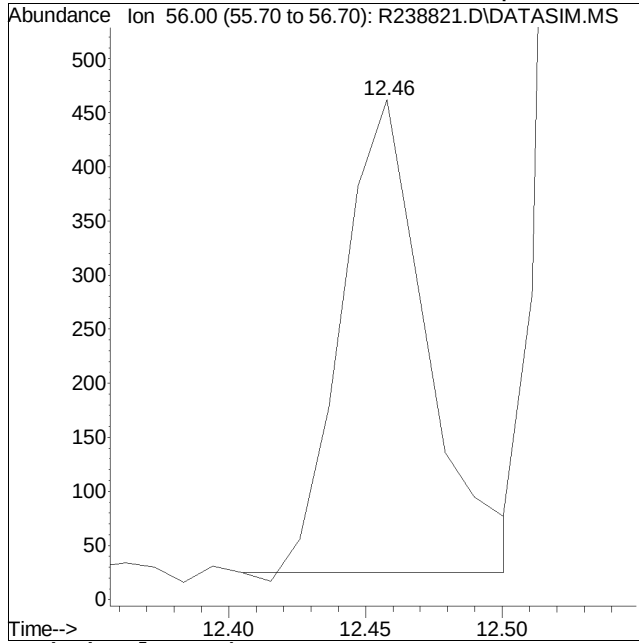


Manual Peak Response = 1278 M3

Manual Integration/Negative Proof Report

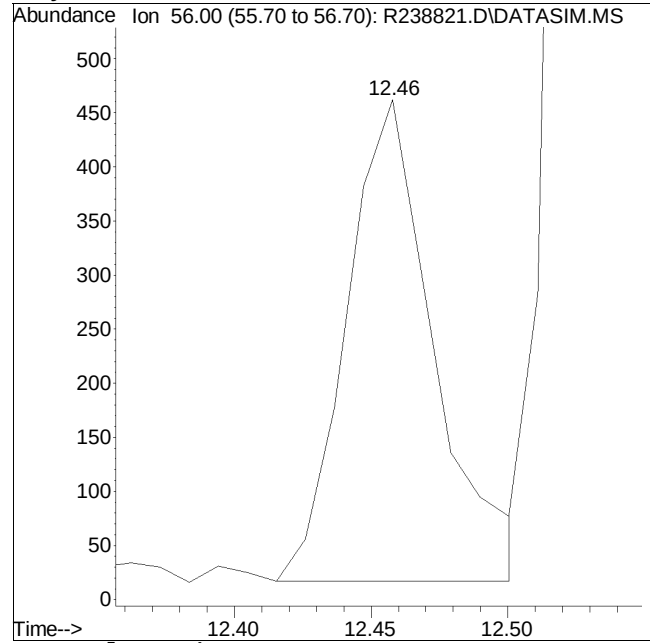
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #39: cyclohexane



Original Peak Response = 942

M4 = Poor automated baseline construction.

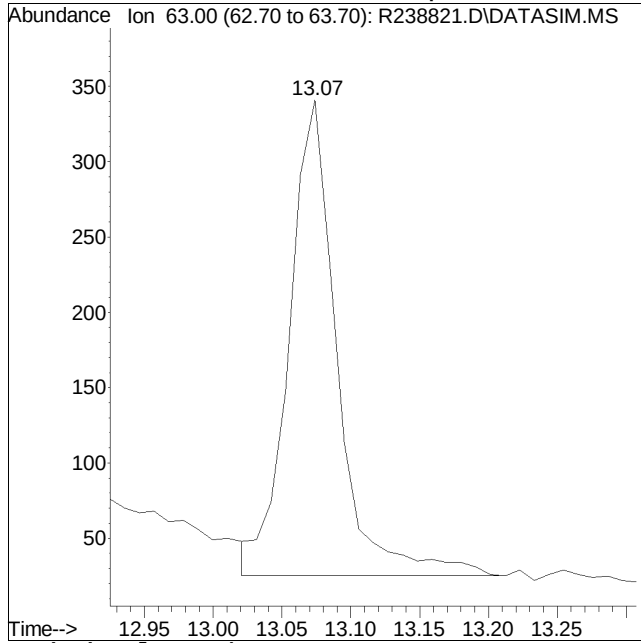


Manual Peak Response = 988 M4

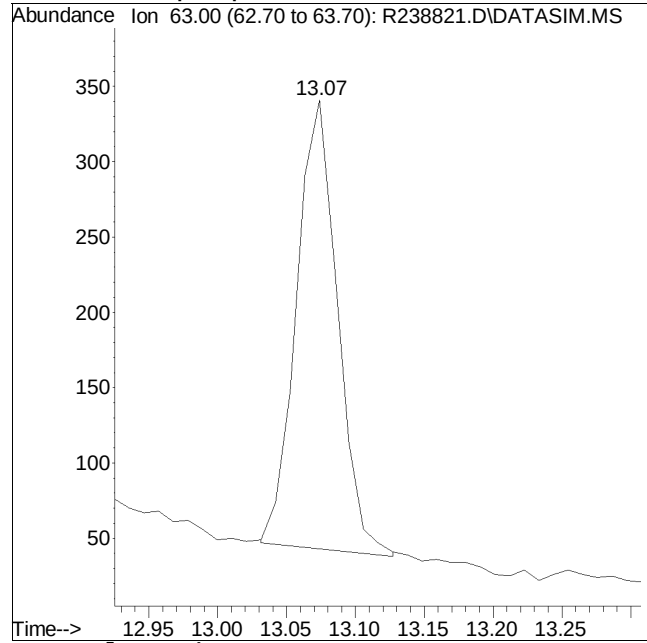
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 768



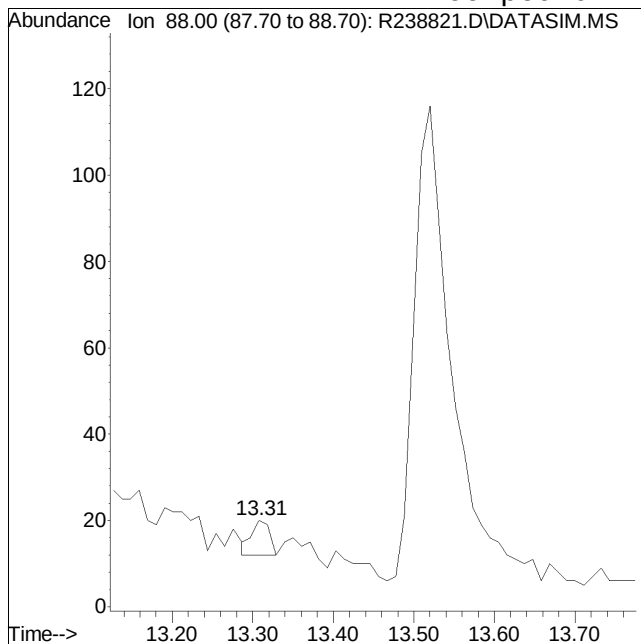
Manual Peak Response = 614 M4

M4 = Poor automated baseline construction.

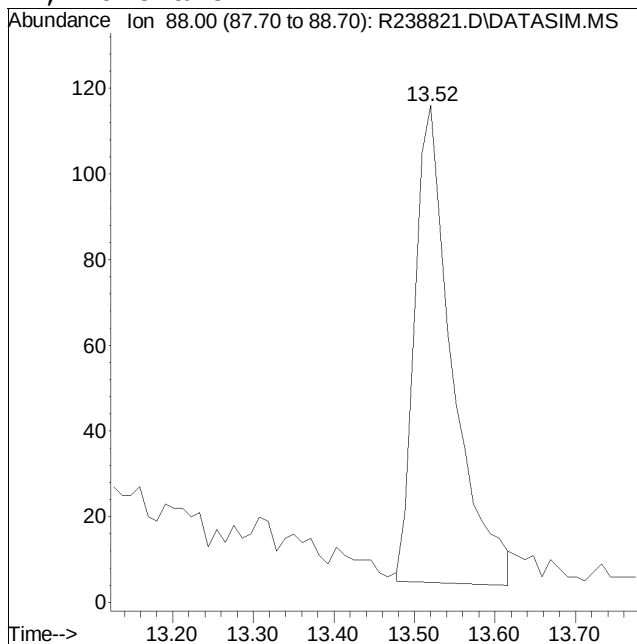
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 12



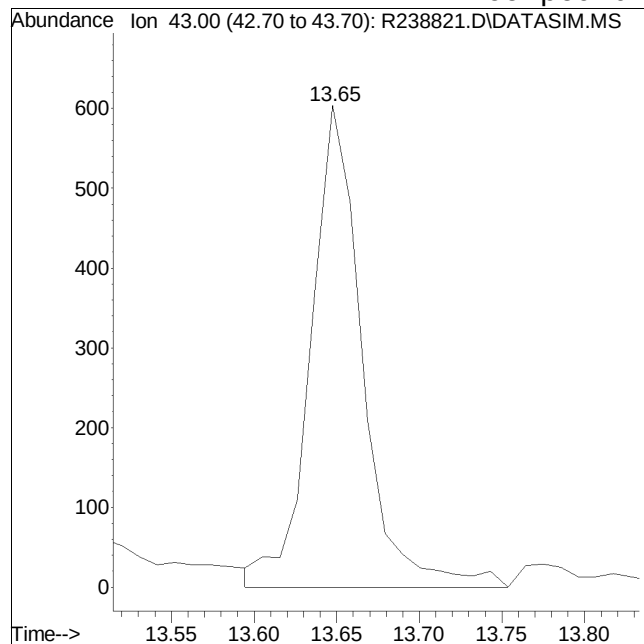
Manual Peak Response = 360 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

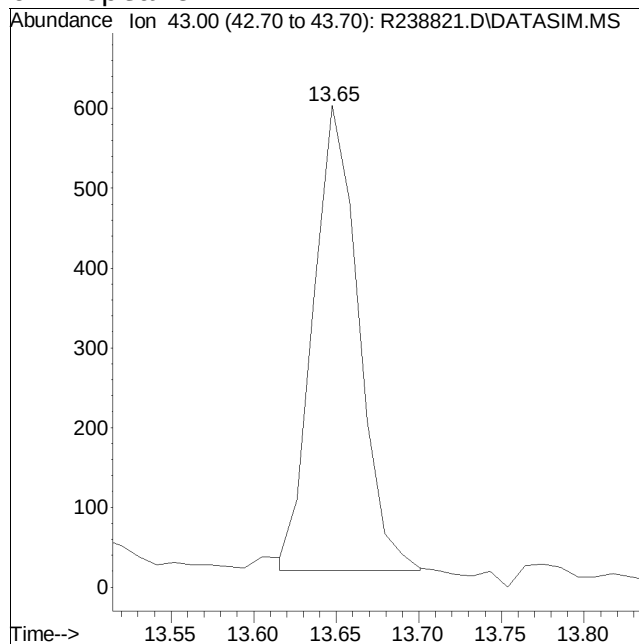
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #46: heptane



Original Peak Response = 1310



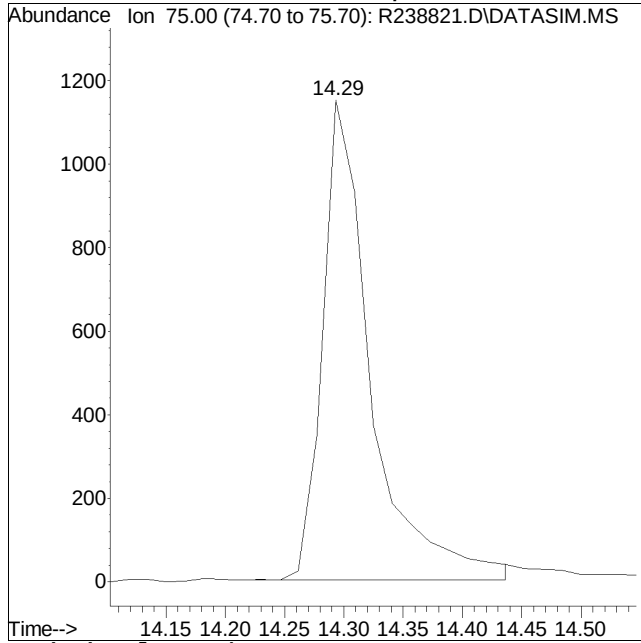
Manual Peak Response = 1110 M4

M4 = Poor automated baseline construction.

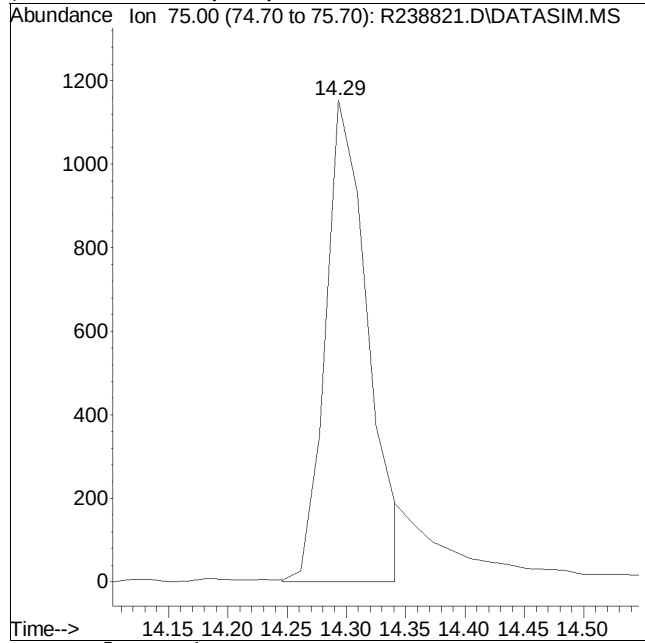
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 3271



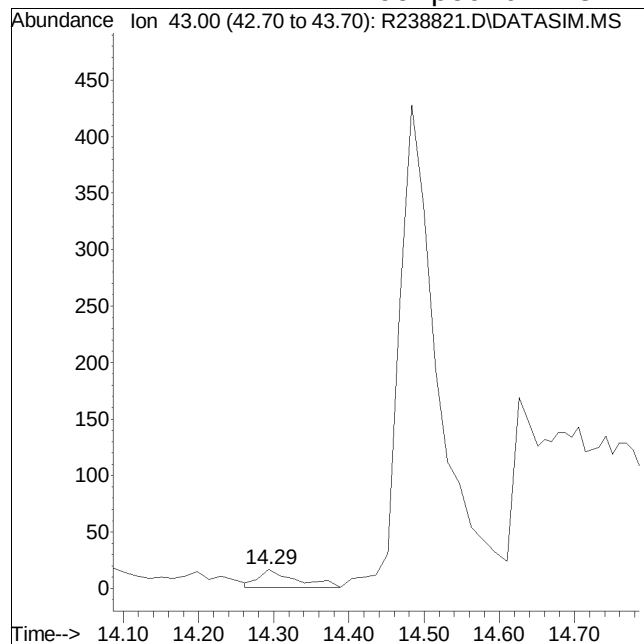
Manual Peak Response = 2881 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

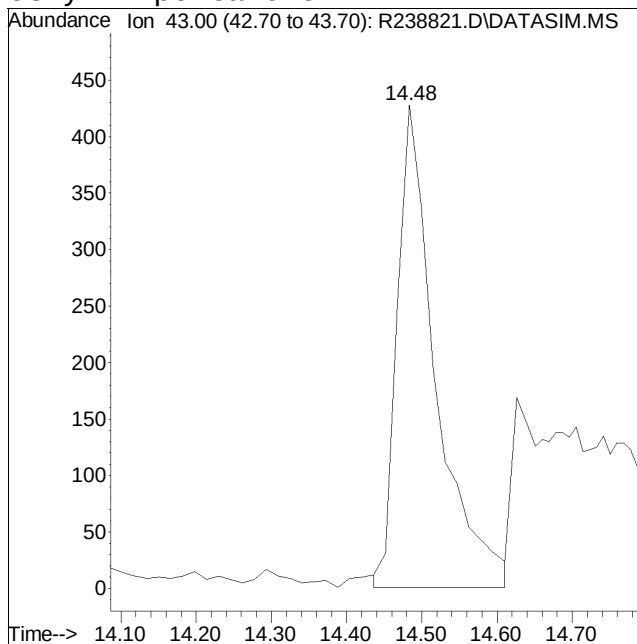
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
 Data File : R238821.D Operator : AIRPIAN02:MR
 Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
 Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 53

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

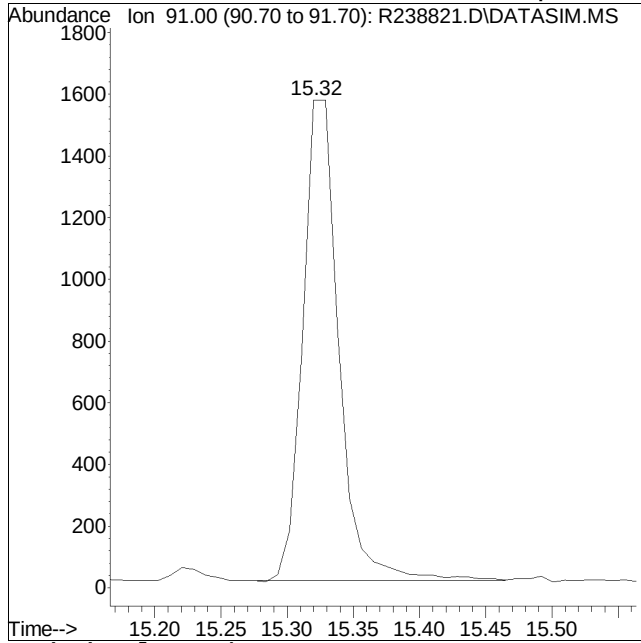


Manual Peak Response = 1513 M3

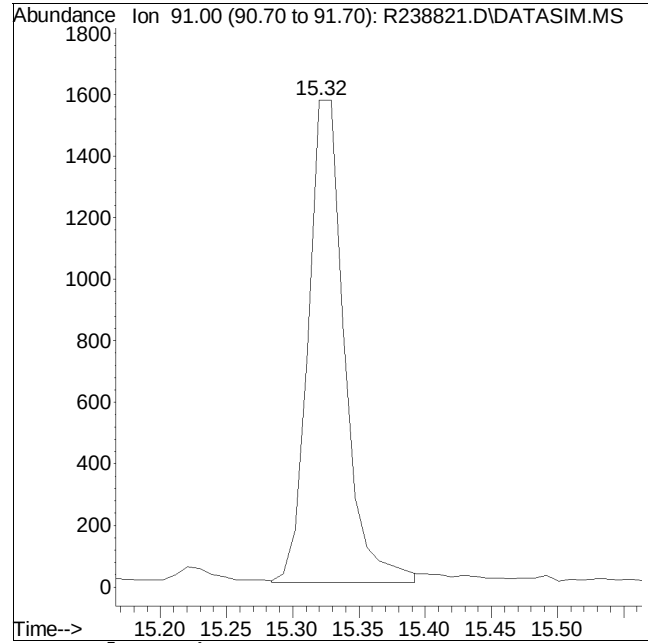
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #52: toluene



Original Peak Response = 2967



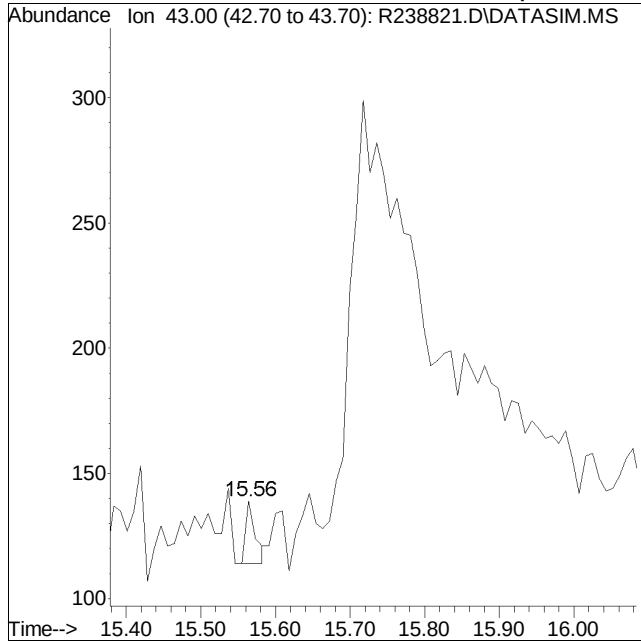
Manual Peak Response = 2965 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

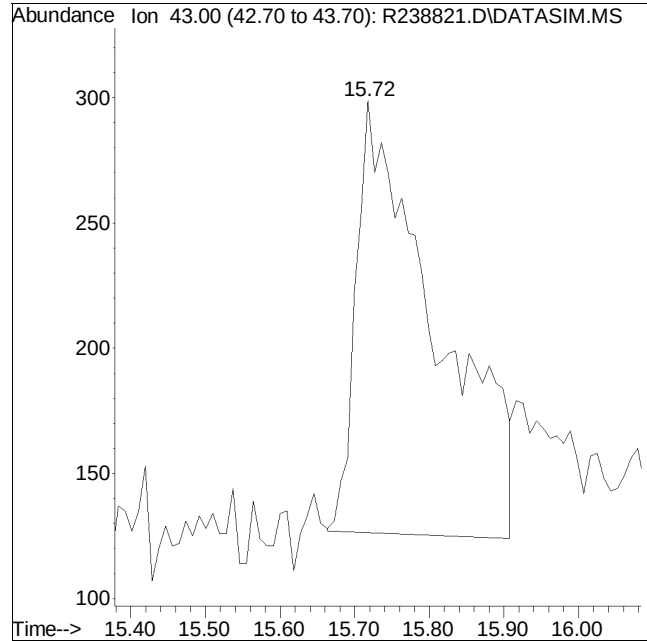
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #54: 2-hexanone



Original Peak Response = 23

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

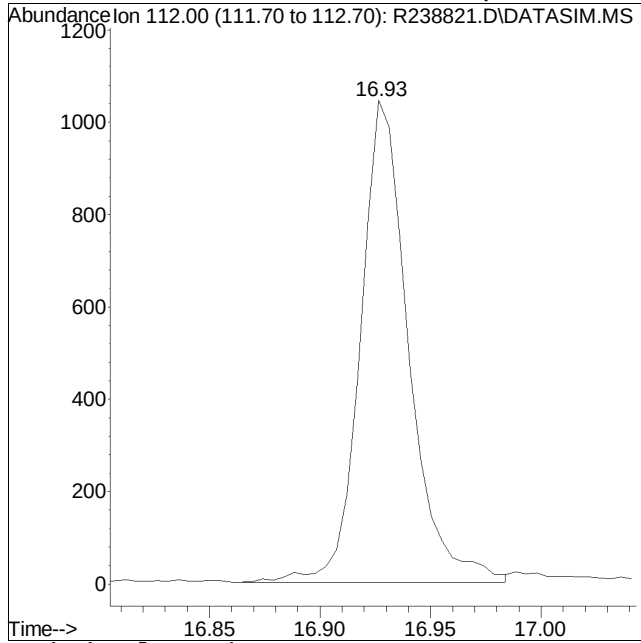


Manual Peak Response = 1280 M3

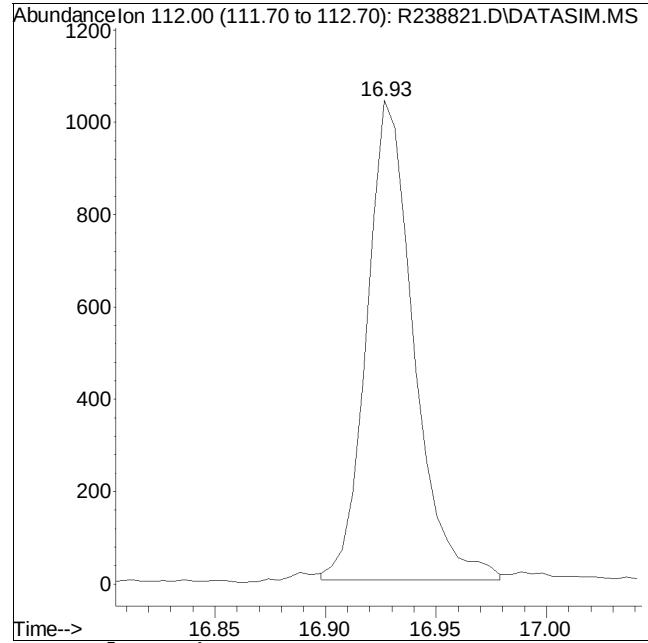
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #59: chlorobenzene



Original Peak Response = 1584



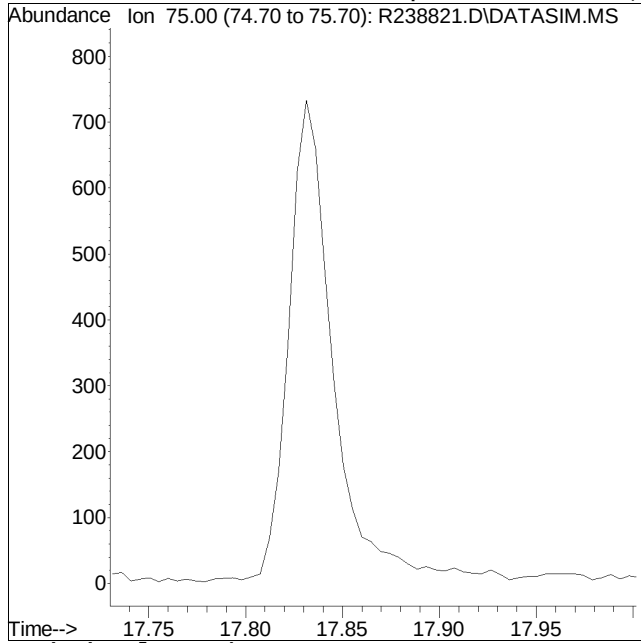
Manual Peak Response = 1533 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

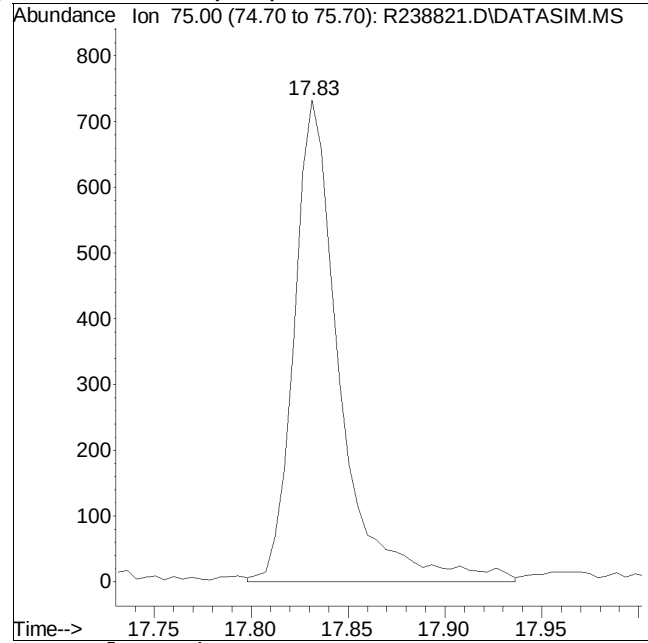
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #66: 1,2,3-trichloropropane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

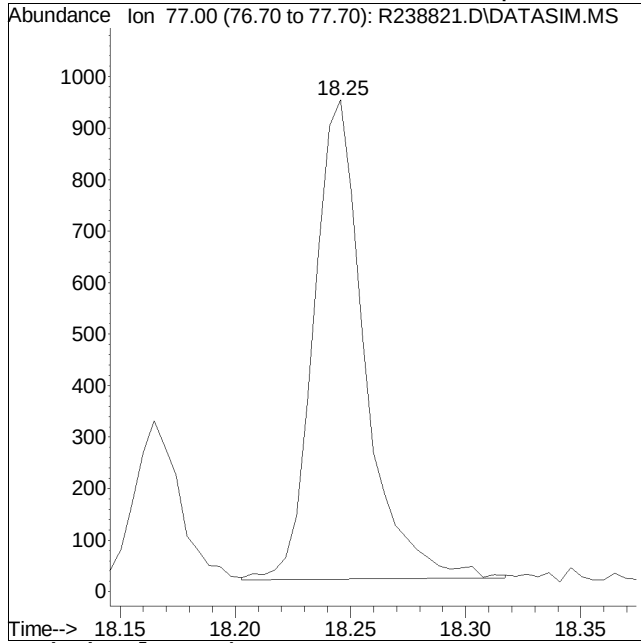


Manual Peak Response = 1204 M2

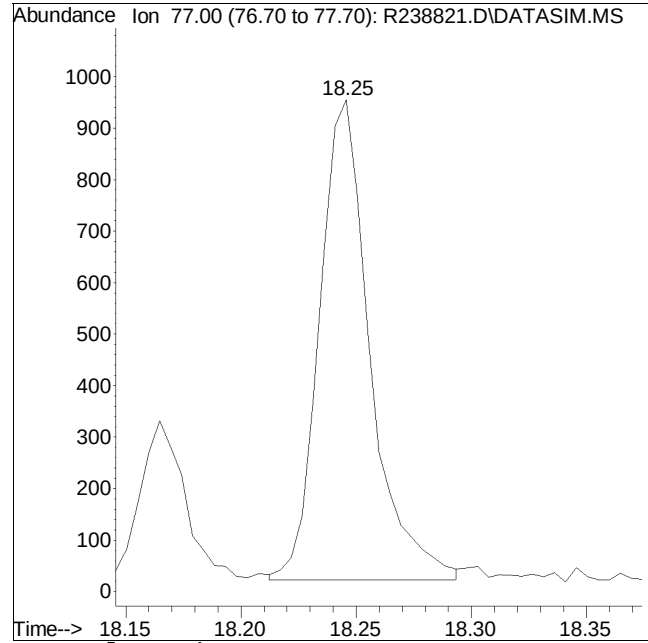
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238821.D
Date Inj'd : 2/7/2016 10:32 pm
Sample : IT015-SIMSTD0.04
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #69: bromobenzene



Original Peak Response = 1433



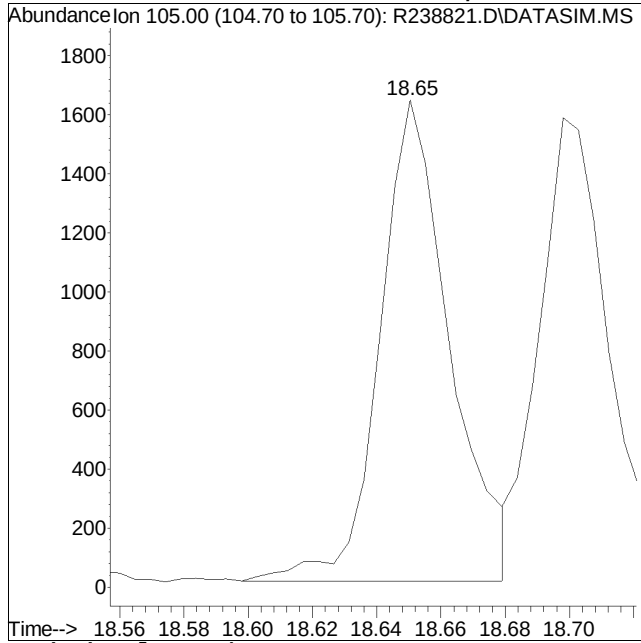
Manual Peak Response = 1419 M4

M4 = Poor automated baseline construction.

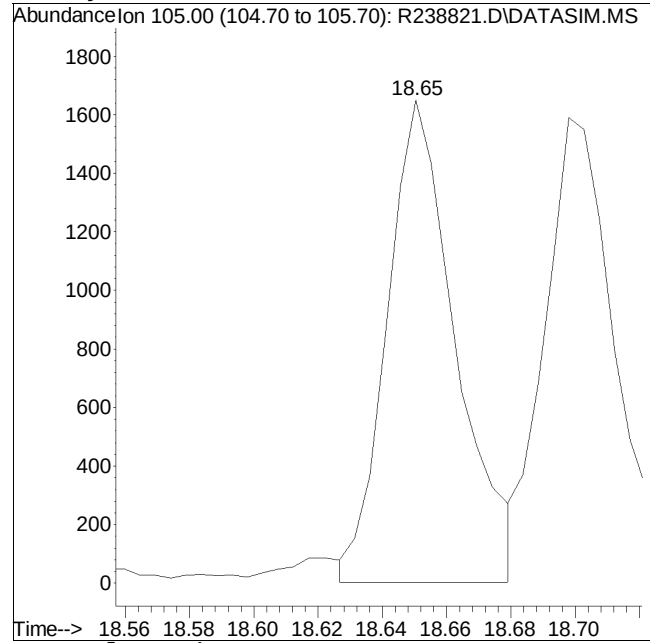
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 2458



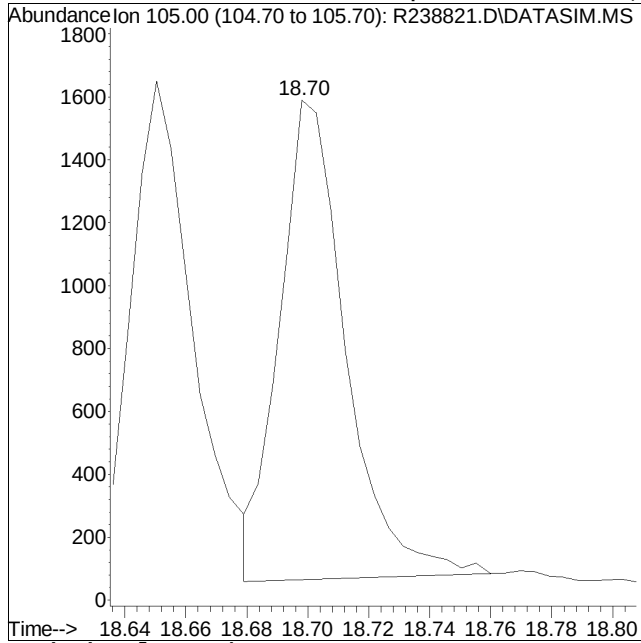
Manual Peak Response = 2435 M4

M4 = Poor automated baseline construction.

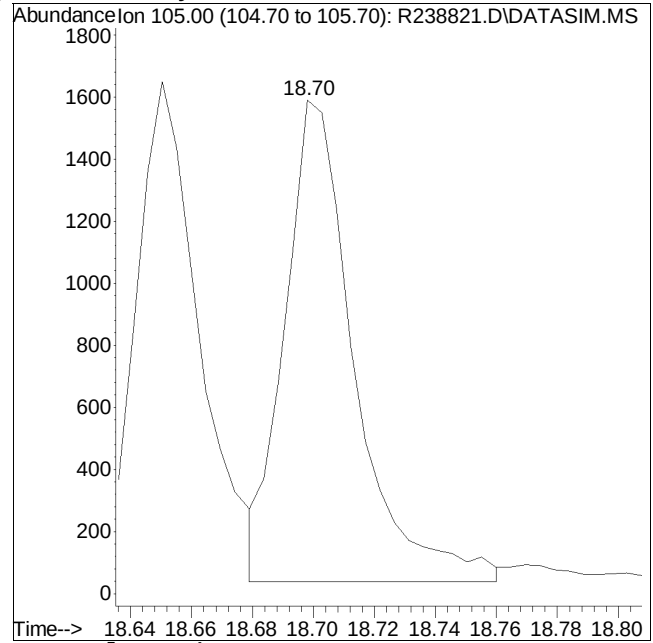
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 2304



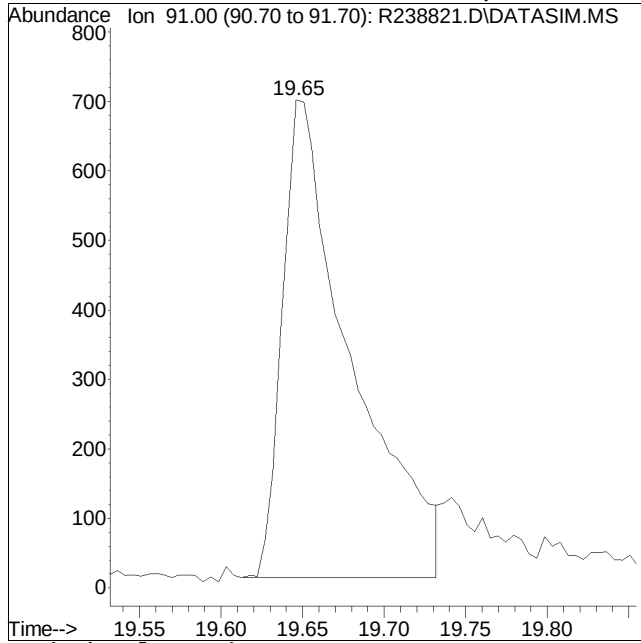
Manual Peak Response = 2468 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

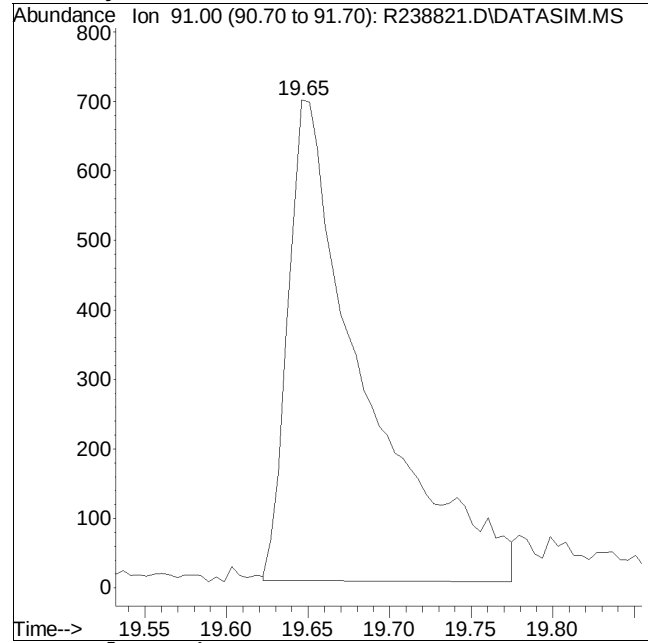
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #80: n-butylbenzene



Original Peak Response = 1997

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

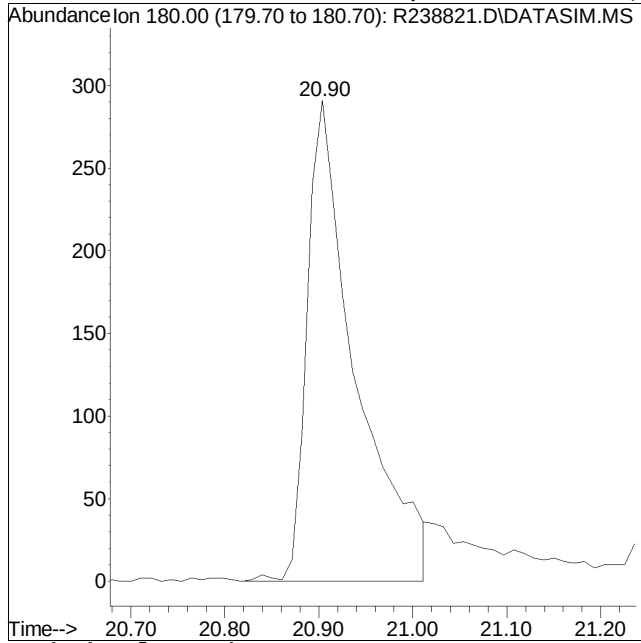


Manual Peak Response = 2248 M1

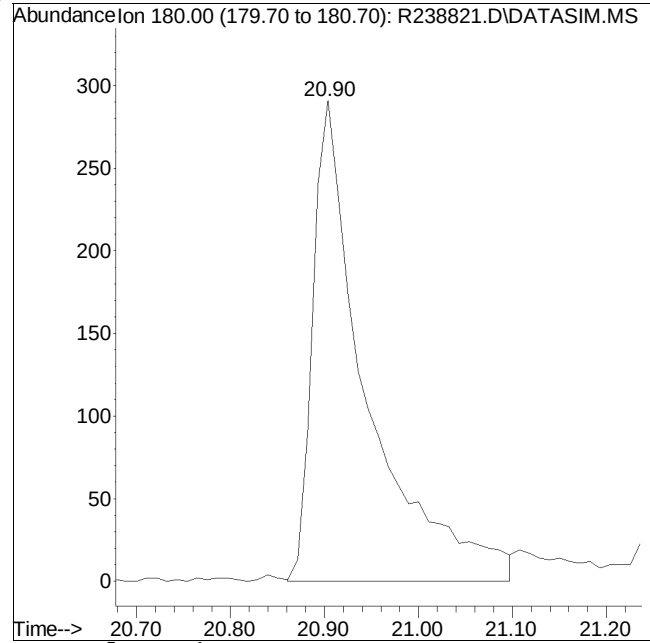
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #81: 1,2,4-trichlorobenzene



Original Peak Response = 1047



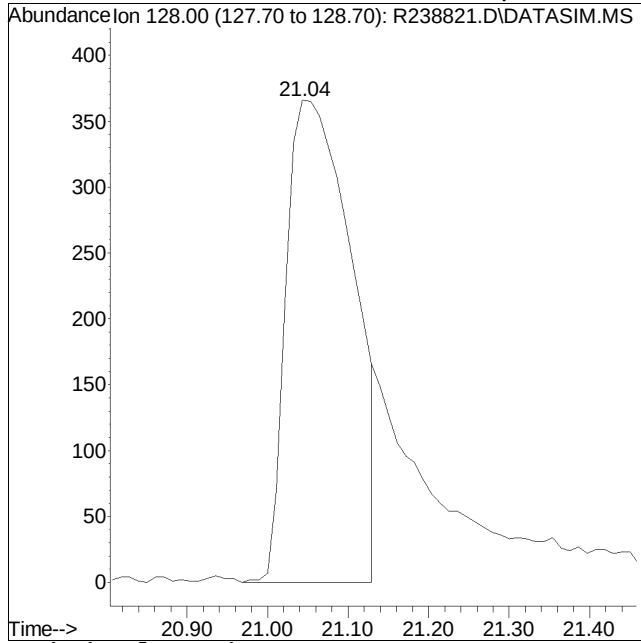
Manual Peak Response = 1165 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration/Negative Proof Report

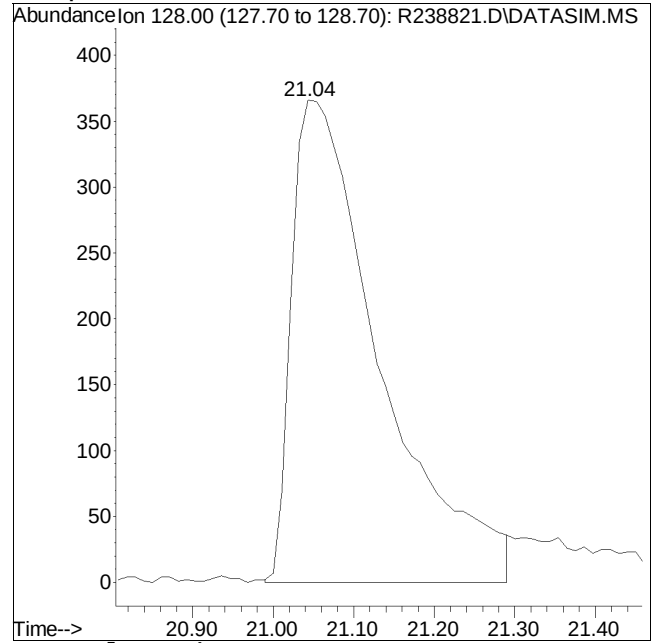
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #82: naphthalene



Original Peak Response = 2079

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

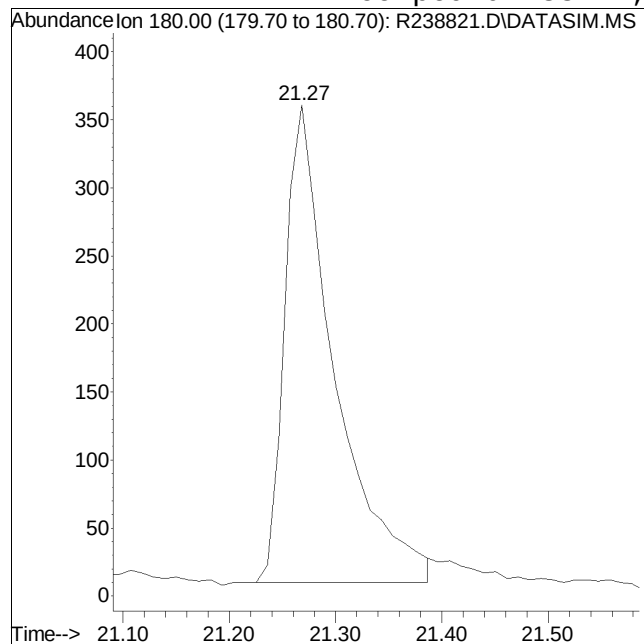


Manual Peak Response = 2780 M1

Manual Integration/Negative Proof Report

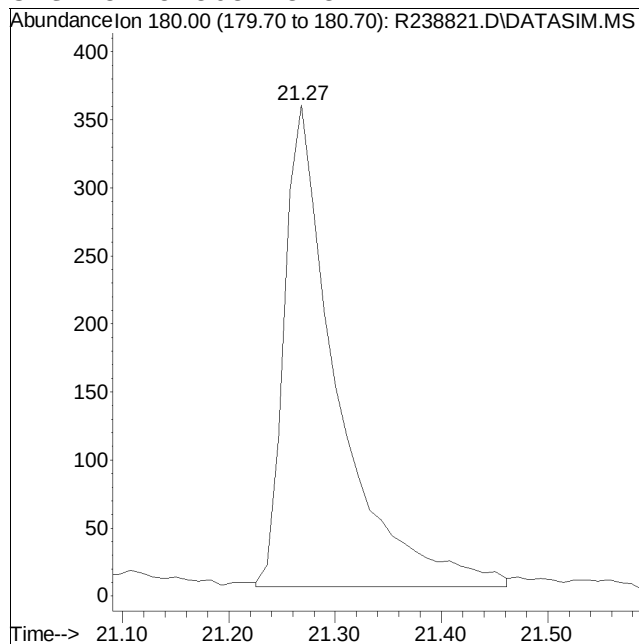
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238821.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 10:32 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.04 Quant Date : 2/9/2016 9:32 am

Compound #83: 1,2,3-trichlorobenzene



Original Peak Response = 1138

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 1226 M1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238822.D
 Acq On : 7 Feb 2016 11:07 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.1
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 10:18:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	188292	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	99.68%		
33) 1,4-difluorobenzene	12.54	114	430144	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	96.84%		
51) chlorobenzene-D5	16.89	54	101034	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	100.40%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	116331	10.320	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.20%		
53) toluene-D8	15.23	98	437109	9.824	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.24%		
67) bromofluorobenzene	18.06	95	241661	9.901	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.01%		
Target Compounds						
					Qvalue	
2) propylene	4.32	41	1618M6	0.146	ppbV	
3) dichlorodifluoromethane	4.42	85	2551	0.099	ppbV	100
4) chloromethane	4.65	50	1352M4	0.113	ppbV	
5) Freon-114	4.80	85	3310	0.103	ppbV	96
6) vinyl chloride	4.96	62	1228M4	0.101	ppbV	
7) 1,3-butadiene	5.17	54	917M4	0.102	ppbV	
8) bromomethane	5.54	94	1093M4	0.104	ppbV	
9) chloroethane	5.80	64	541M4	0.095	ppbV	
10) ethanol	6.10	31	4874	0.484	ppbV	92
11) vinyl bromide	6.28	106	1034	0.096	ppbV	100
12) acetone	6.73	43	10652M4	0.532	ppbV	
13) trichlorofluoromethane	6.84	101	3009	0.100	ppbV	98
14) isopropyl alcohol	7.13	45	5828M1	0.265	ppbV	
15) acrylonitrile	7.31	53	977M4	0.105	ppbV	
16) 1,1-dichloroethene	7.66	61	2280	0.103	ppbV	96
17) tertiary butyl alcohol	7.96	59	3145M3	0.118	ppbV	
18) methylene chloride	7.83	49	2423	0.138	ppbV	93
19) 3-chloropropene	7.97	41	2586M4	0.137	ppbV	
20) carbon disulfide	8.16	76	3792	0.103	ppbV #	92
21) Freon 113	8.17	101	2605	0.100	ppbV	99
22) Halothane	8.74	117	2012	0.099	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	2103	0.098	ppbV	95
24) 1,1-dichloroethane	9.21	63	2452	0.100	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238822.D
 Acq On : 7 Feb 2016 11:07 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.1
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 10:18:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.41	73	3282	0.097	ppbV	97
26) vinyl acetate	9.46	43	2428M6	0.087	ppbV	
27) 2-butanone	9.81	43	2964M4	0.094	ppbV	
28) cis-1,2-dichloroethene	10.19	61	1919	0.100	ppbV	97
29) Ethyl Acetate	10.55	61	491M6	0.124	ppbV	
30) chloroform	10.53	83	2726	0.100	ppbV	98
31) Tetrahydrofuran	11.11	42	1765	0.109	ppbV	93
32) 1,2-dichloroethane	11.36	62	1926	0.099	ppbV #	93
34) hexane	10.43	57	2022	0.106	ppbV #	57
36) 1,1,1-trichloroethane	11.64	97	2813	0.104	ppbV	97
37) benzene	12.15	78	3971	0.109	ppbV	97
38) carbon tetrachloride	12.32	117	2955	0.100	ppbV	99
39) cyclohexane	12.46	56	2238	0.108	ppbV	97
40) dibromomethane	13.04	93	1714	0.107	ppbV	99
41) 1,2-dichloropropane	13.07	63	1461M4	0.098	ppbV	
42) bromodichloromethane	13.29	83	3031M4	0.099	ppbV	
43) 1,4-dioxane	13.49	88	804M4	0.096	ppbV	
44) trichloroethene	13.33	130	1760	0.099	ppbV	98
45) 2,2,4-trimethylpentane	13.36	57	6566	0.101	ppbV	95
46) heptane	13.65	43	2777	0.103	ppbV	98
47) cis-1,3-dichloropropene	14.29	75	7966	0.100	ppbV #	80
48) 4-methyl-2-pentanone	14.45	43	3640M4	0.093	ppbV	
49) trans-1,3-dichloropropene	14.87	75	2525	0.092	ppbV	90
50) 1,1,2-trichloroethane	15.05	97	2052	0.101	ppbV	89
52) toluene	15.32	91	6664	0.101	ppbV	98
54) 2-hexanone	15.68	43	3340M4	0.064	ppbV	
55) dibromochloromethane	15.74	129	3789	0.094	ppbV	99
56) 1,2-dibromoethane	15.97	107	3202	0.094	ppbV	99
57) tetrachloroethene	16.36	166	2798	0.096	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.91	131	2154	0.096	ppbV	97
59) chlorobenzene	16.93	112	3893M4	0.097	ppbV	
60) ethylbenzene	17.22	91	5897	0.096	ppbV	100
61) m+p-xylene	17.36	91	8857	0.186	ppbV	99
62) bromoform	17.44	173	2780	0.090	ppbV	95
63) styrene	17.64	104	3254	0.088	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.73	83	3650	0.096	ppbV	99
65) o-xylene	17.72	91	4837	0.098	ppbV	97
66) 1,2,3-trichloropropane	17.83	75	2762M4	0.090	ppbV	
68) isopropylbenzene	18.16	105	6330	0.096	ppbV	99
69) bromobenzene	18.25	77	3544	0.096	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238822.D
 Acq On : 7 Feb 2016 11:07 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.1
 Misc : WG863731
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 09 10:18:32 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

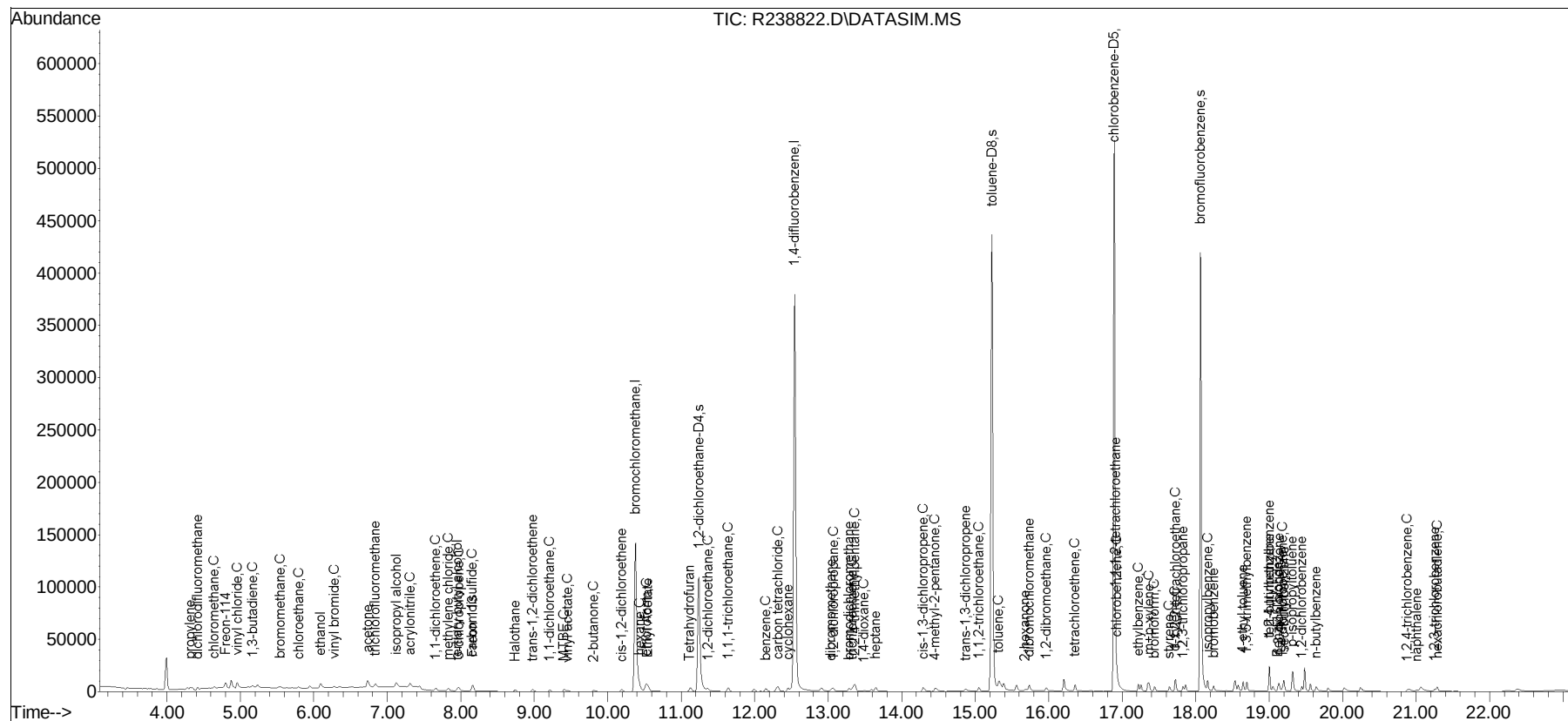
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.65	105	6172M4	0.086	ppbV	
71) 1,3,5-trimethylbenzene	18.70	105	5701M4	0.096	ppbV	
72) tert-butylbenzene	19.00	119	5826	0.098	ppbV	99
73) 1,2,4-trimethylbenzene	19.00	105	5310	0.090	ppbV #	91
74) Benzyl Chloride	19.12	91	3832	0.069	ppbV	97
75) 1,3-dichlorobenzene	19.14	146	3590	0.079	ppbV	95
76) 1,4-dichlorobenzene	19.18	146	4274M4	0.091	ppbV	
77) sec-butylbenzene	19.20	105	7825	0.091	ppbV	97
78) p-isopropyltoluene	19.31	119	6510	0.088	ppbV	94
79) 1,2-dichlorobenzene	19.45	146	3813	0.086	ppbV	97
80) n-butylbenzene	19.64	91	5663	0.077	ppbV	96
81) 1,2,4-trichlorobenzene	20.88	180	2808	0.067	ppbV #	89
82) naphthalene	21.01	128	6066M1	0.067	ppbV	
83) 1,2,3-trichlorobenzene	21.26	180	2889	0.071	ppbV	99
84) hexachlorobutadiene	21.29	225	2811	0.083	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238822.D
Acq On    : 7 Feb 2016 11:07 pm
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD0.1
Misc      : WG863731
ALS Vial  : 5 Sample Multiplier: 1
```

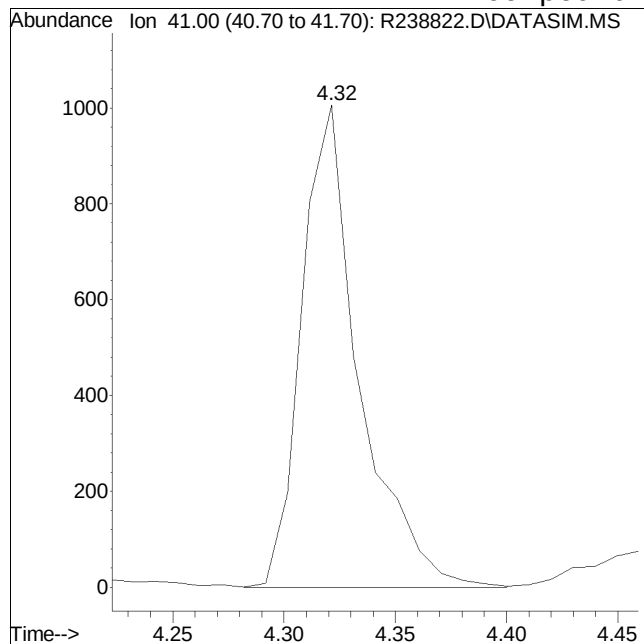
Quant Time: Feb 09 10:18:32 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

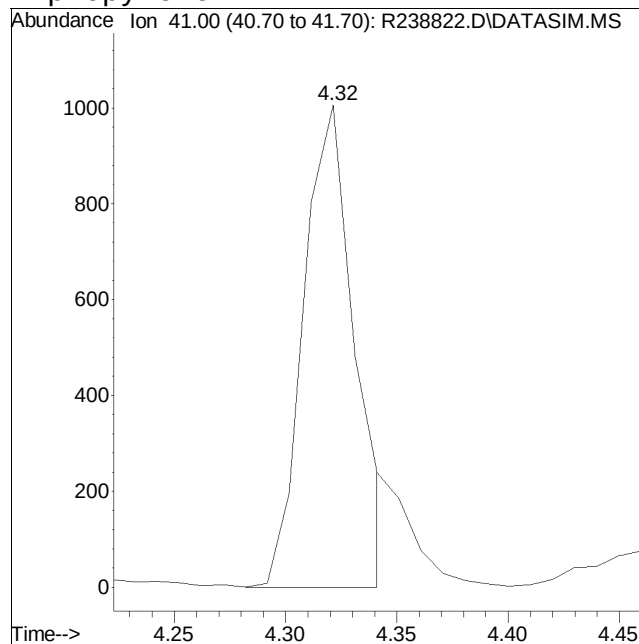
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 1803

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



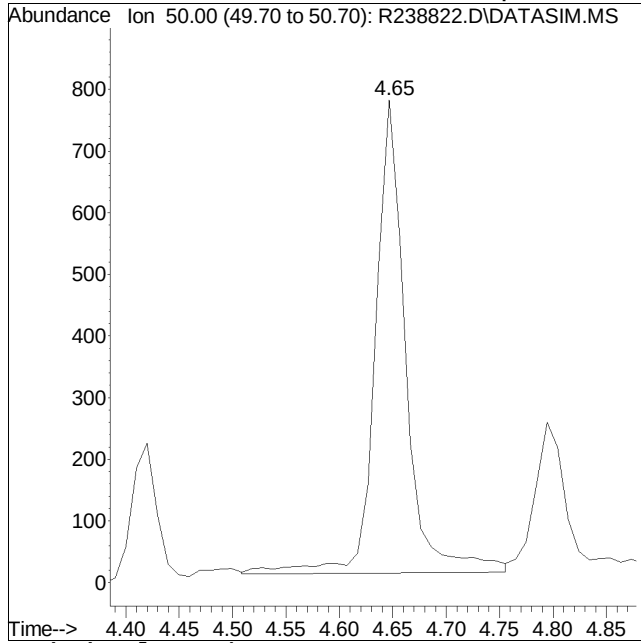
Manual Peak Response = 1618 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

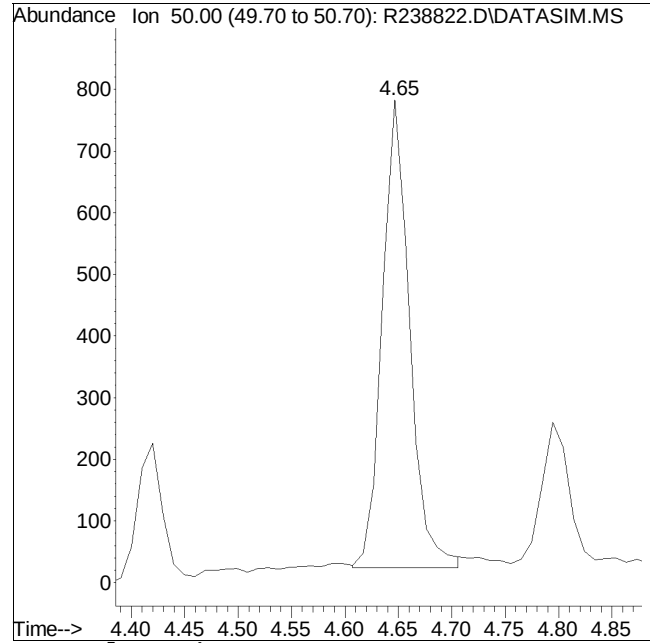
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #4: chloromethane



Original Peak Response = 1529



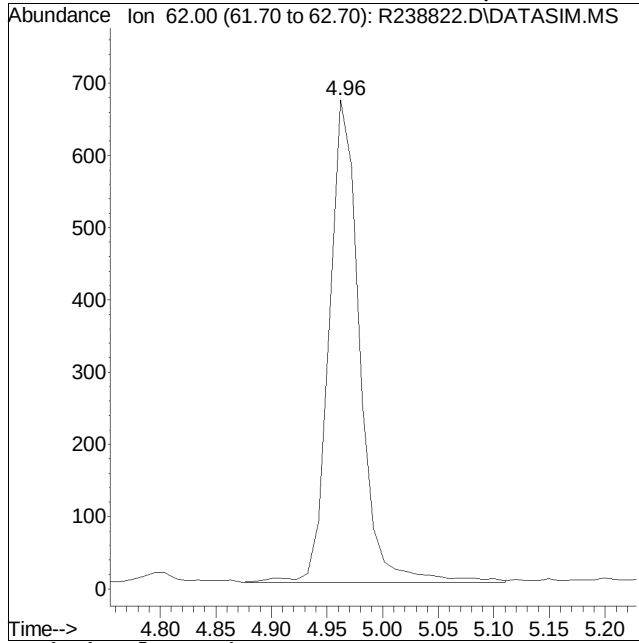
Manual Peak Response = 1352 M4

M4 = Poor automated baseline construction.

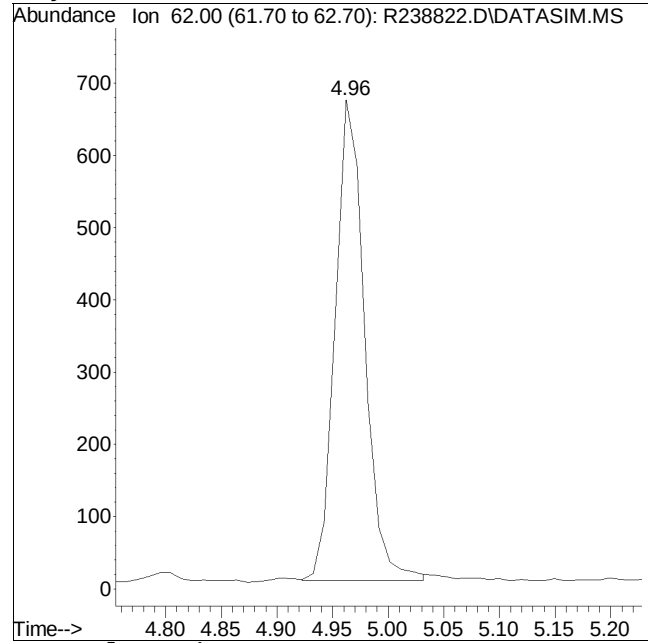
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #6: vinyl chloride



Original Peak Response = 1280



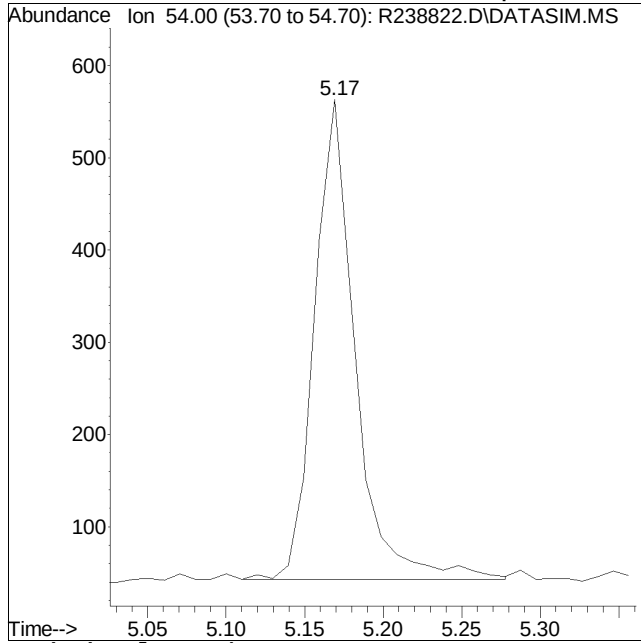
Manual Peak Response = 1228 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

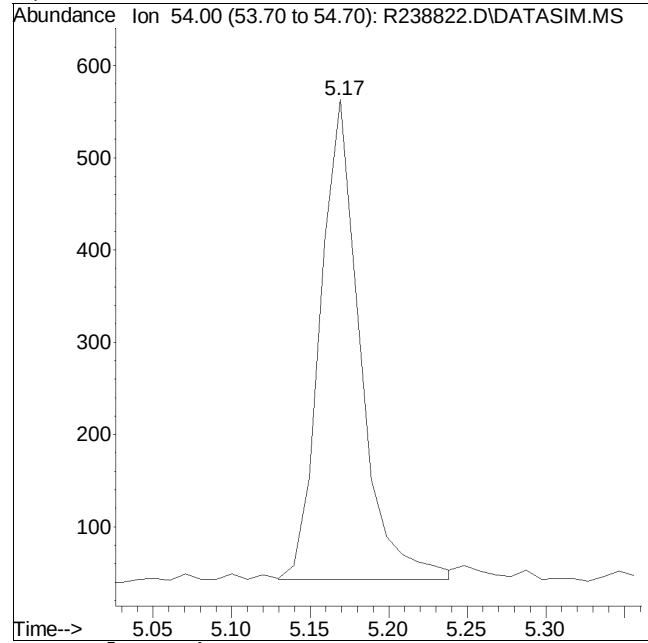
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #7: 1,3-butadiene



Original Peak Response = 939

M4 = Poor automated baseline construction.

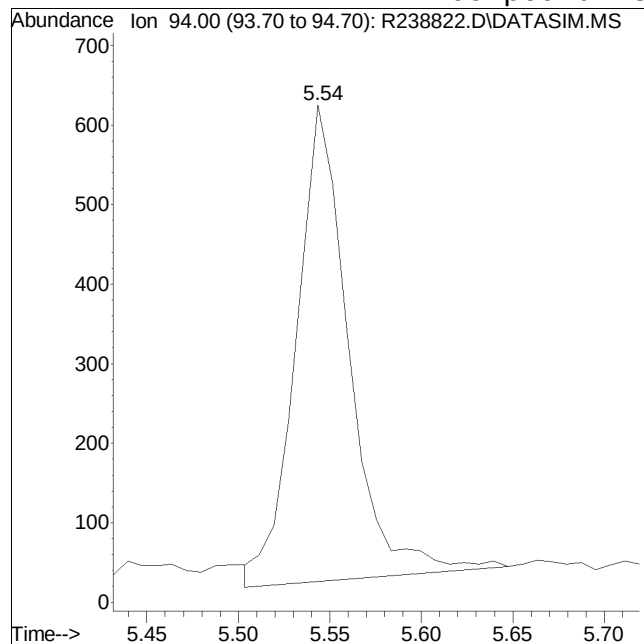


Manual Peak Response = 917 M4

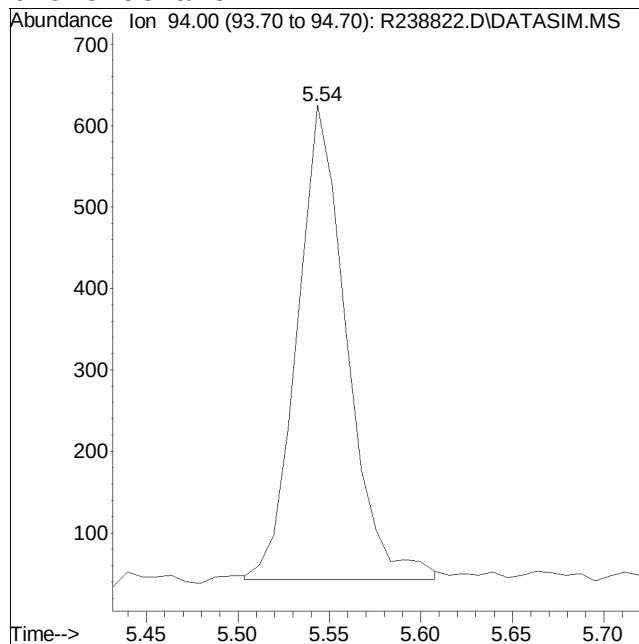
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #8: bromomethane



Original Peak Response = 1201



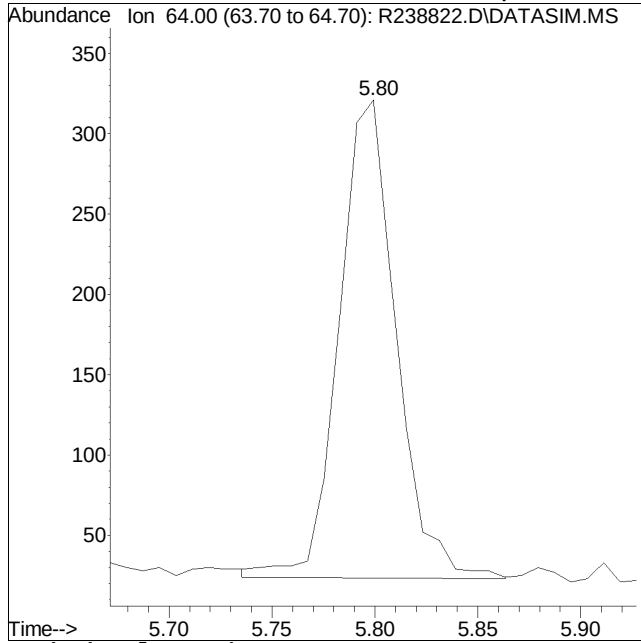
Manual Peak Response = 1093 M4

M4 = Poor automated baseline construction.

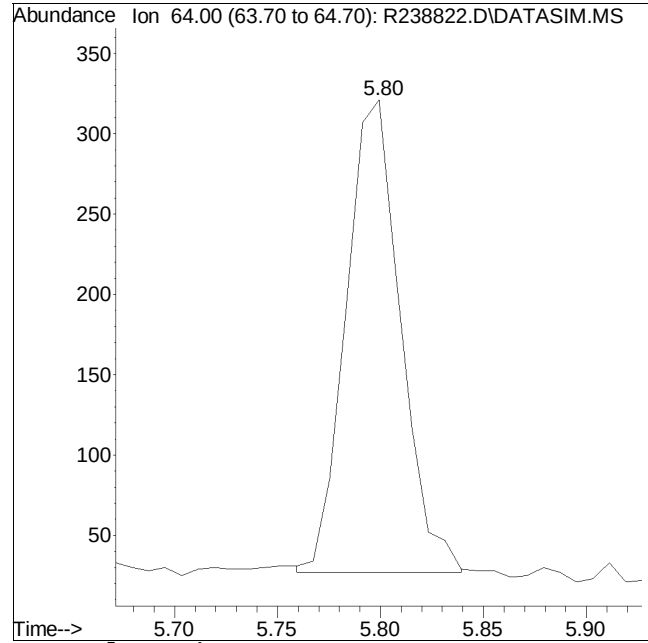
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #9: chloroethane



Original Peak Response = 573



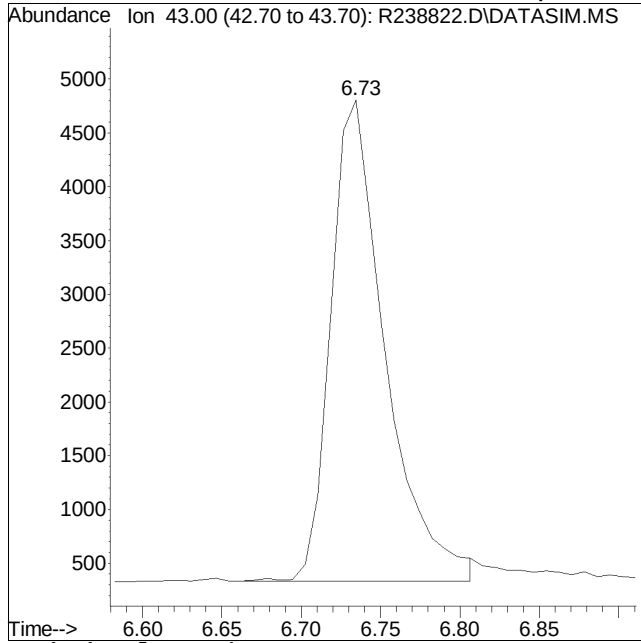
Manual Peak Response = 541 M4

M4 = Poor automated baseline construction.

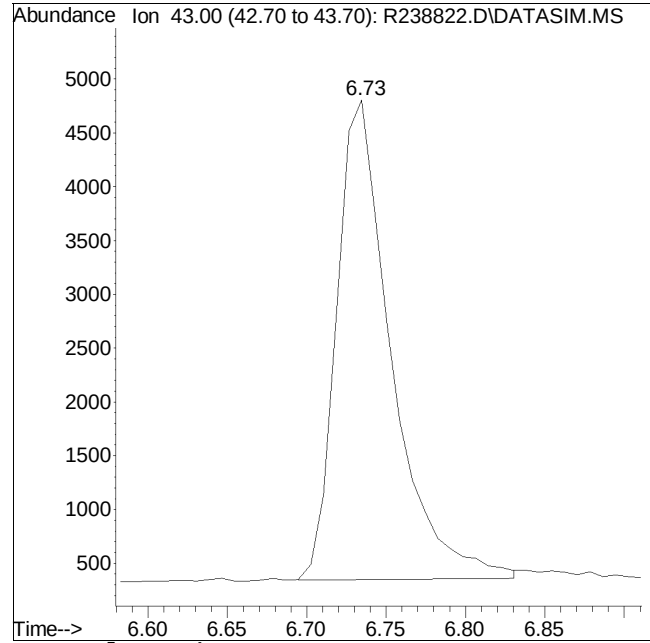
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #12: acetone



Original Peak Response = 10642



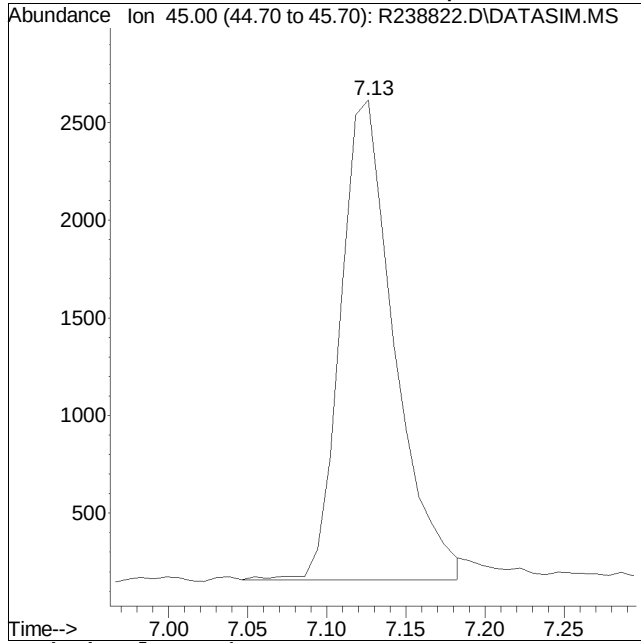
Manual Peak Response = 10652 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

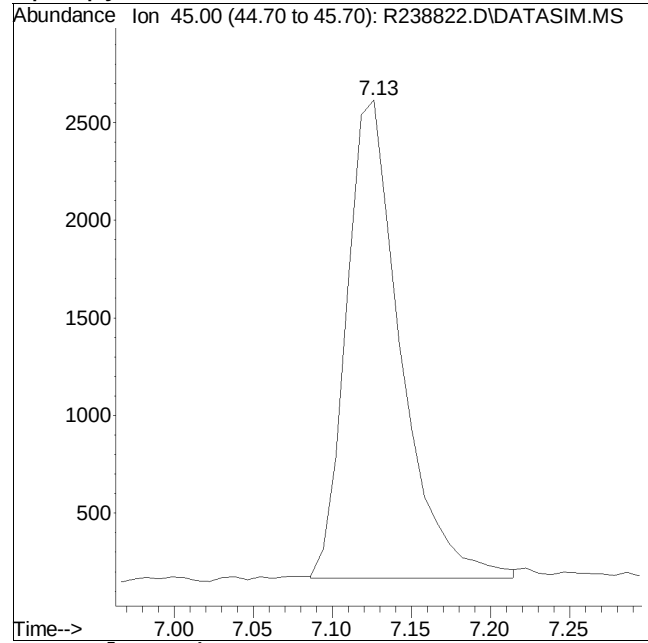
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #14: isopropyl alcohol



Original Peak Response = 5799

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

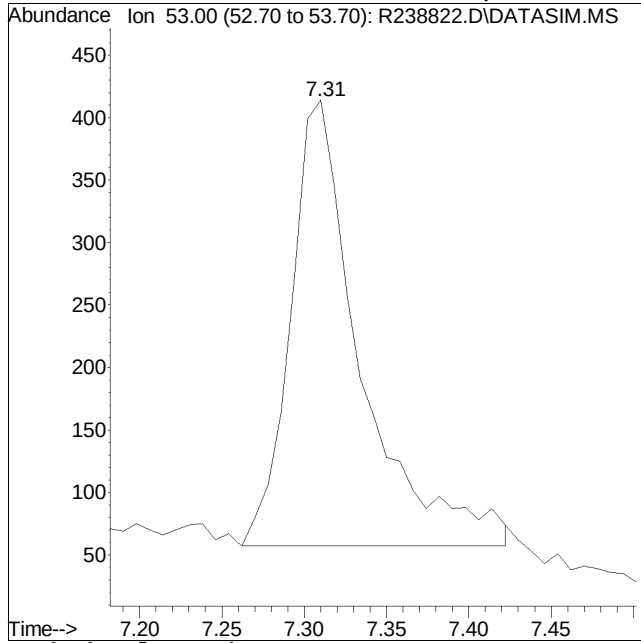


Manual Peak Response = 5828 M1

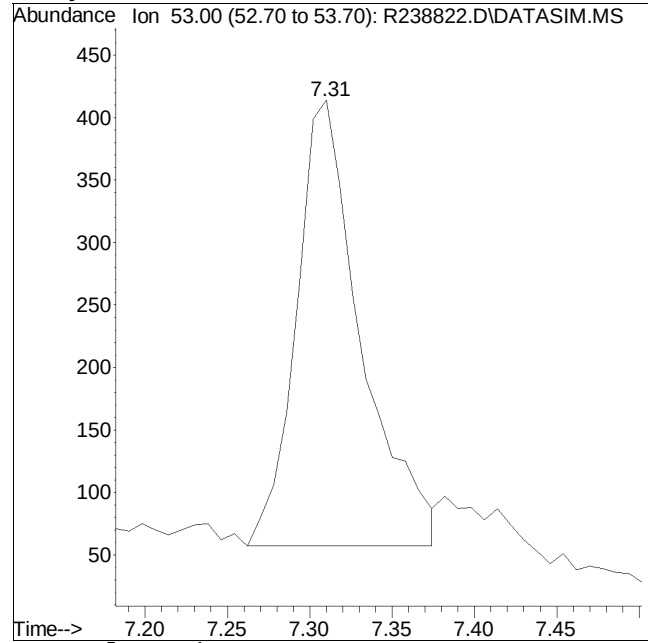
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 1058



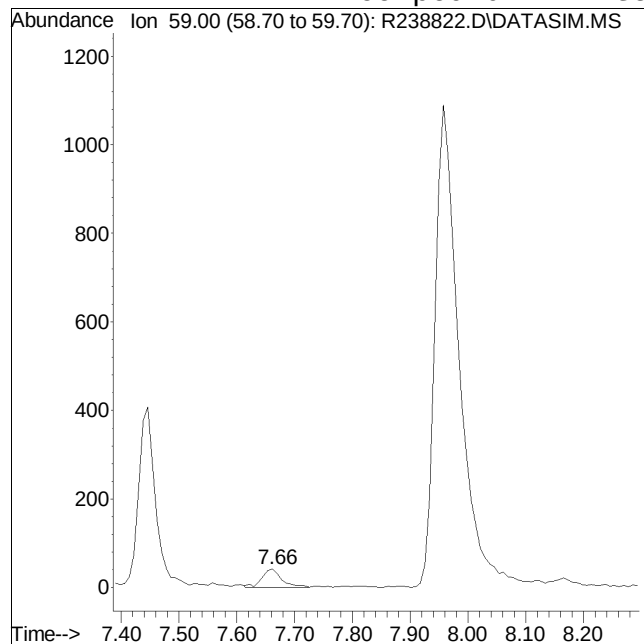
Manual Peak Response = 977 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

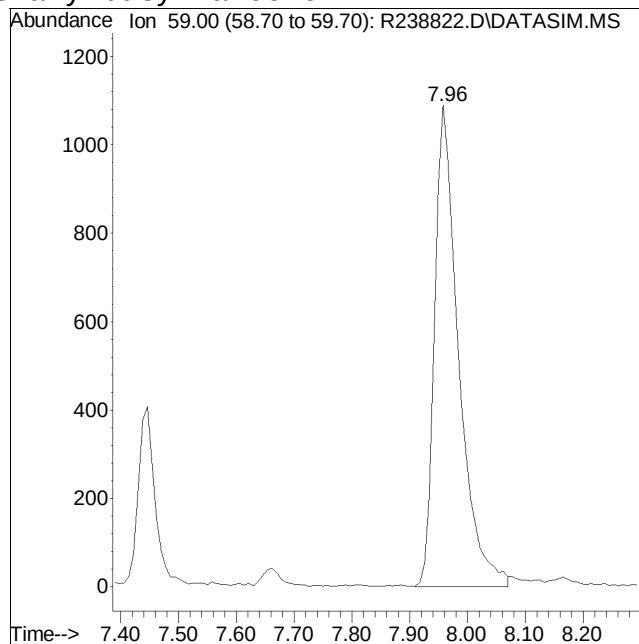
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #17: tertiary butyl alcohol



Original Peak Response = 95

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

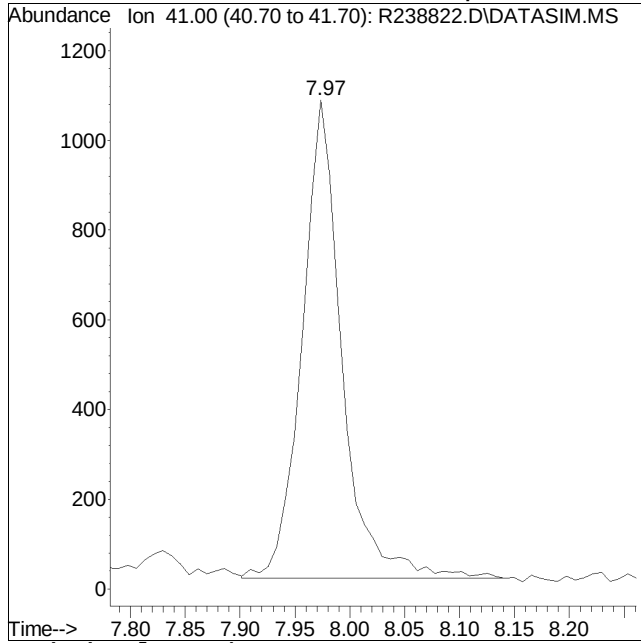


Manual Peak Response = 3145 M3

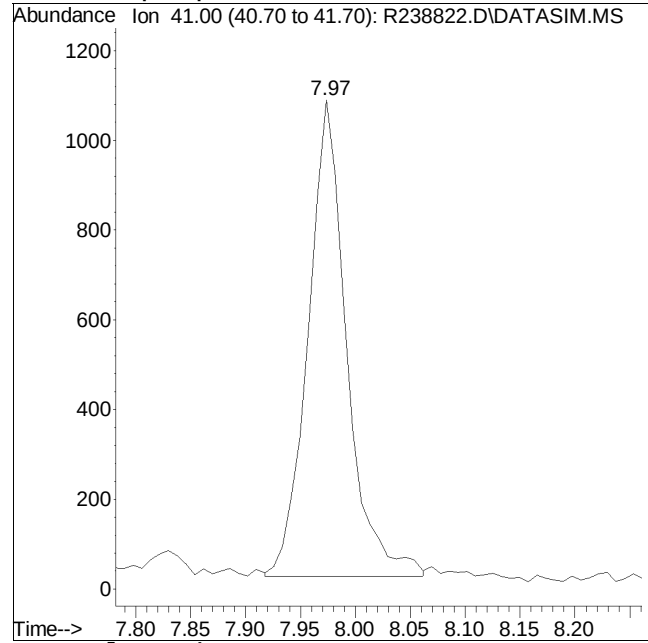
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #19: 3-chloropropene



Original Peak Response = 2696



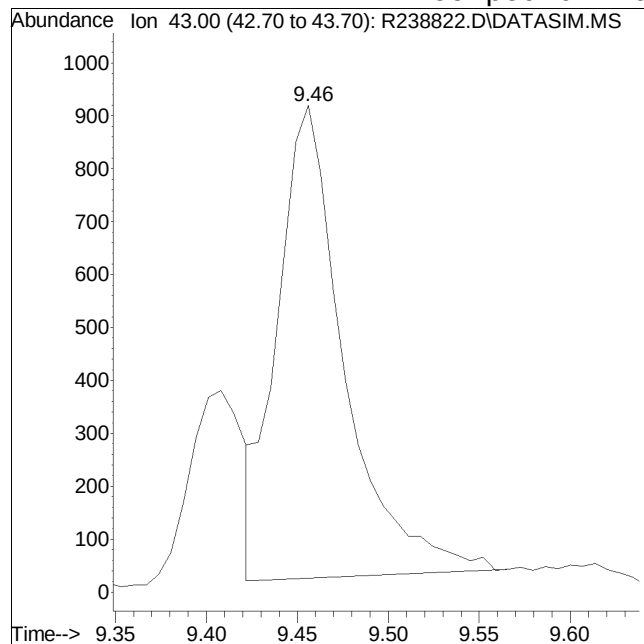
Manual Peak Response = 2586 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

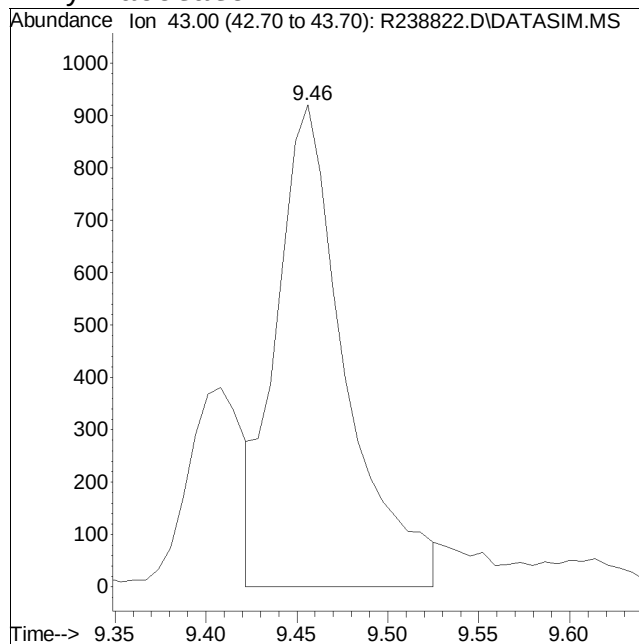
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #26: vinyl acetate



Original Peak Response = 2299

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

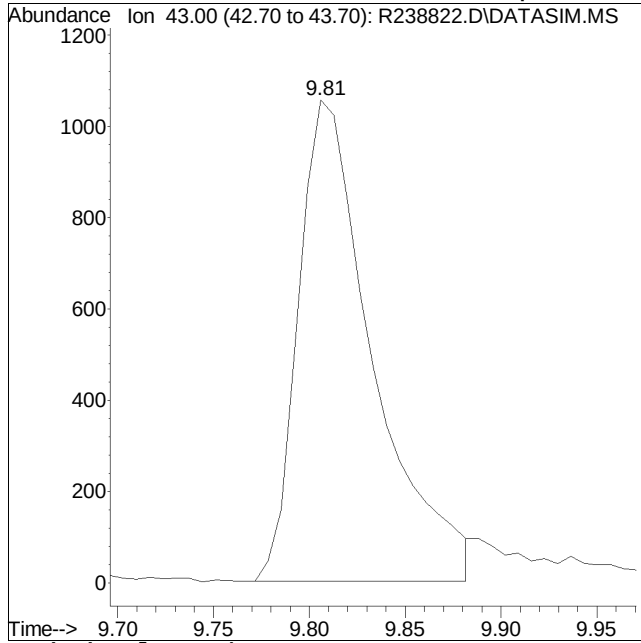


Manual Peak Response = 2428 M6

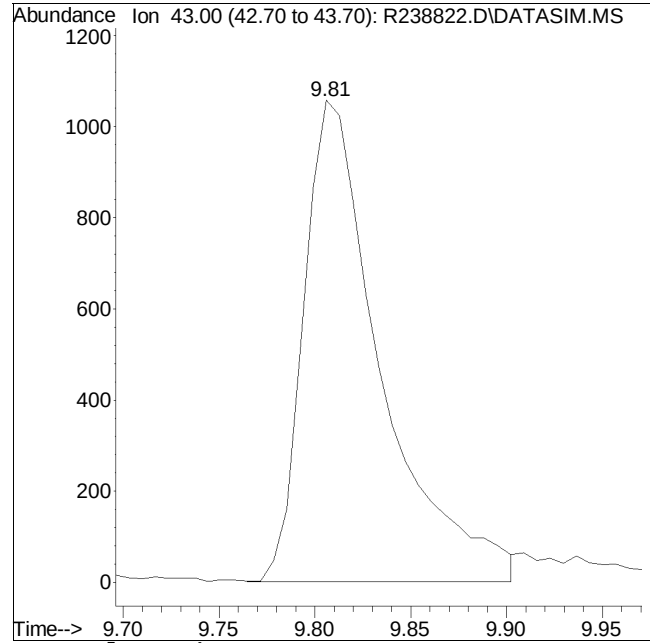
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #27: 2-butanone



Original Peak Response = 2853



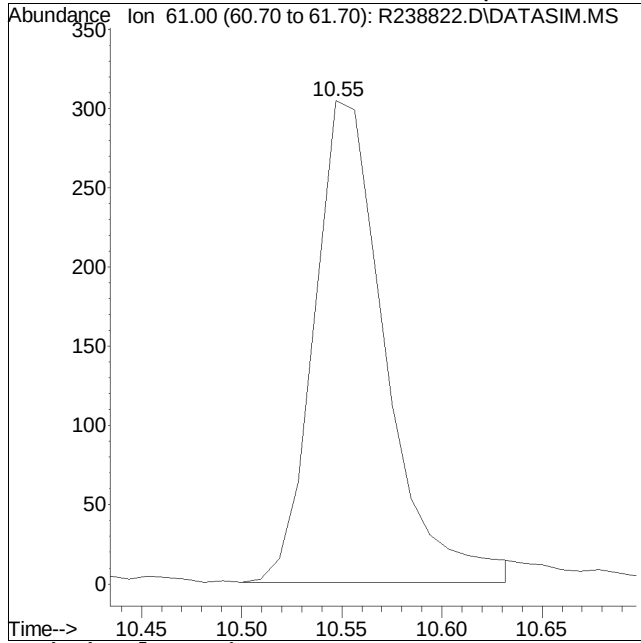
Manual Peak Response = 2964 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

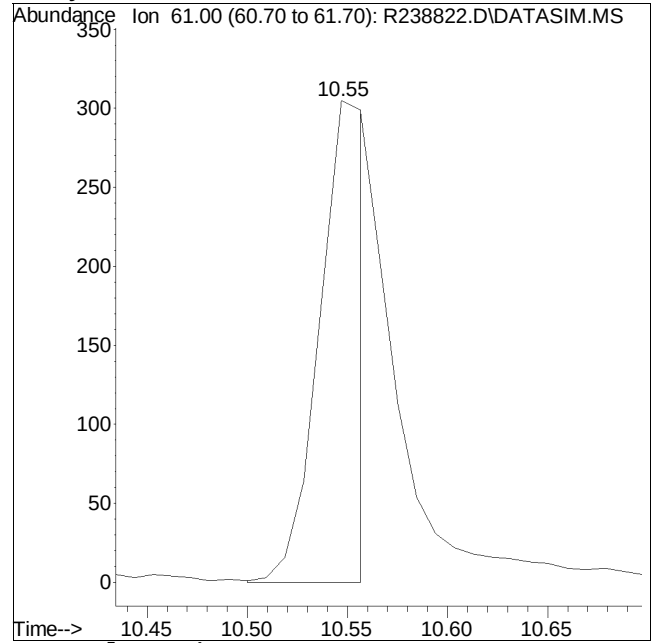
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238822.D
Date Inj'd : 2/7/2016 11:07 pm
Sample : IT015-SIMSTD0.1
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #29: Ethyl Acetate



Original Peak Response = 752

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

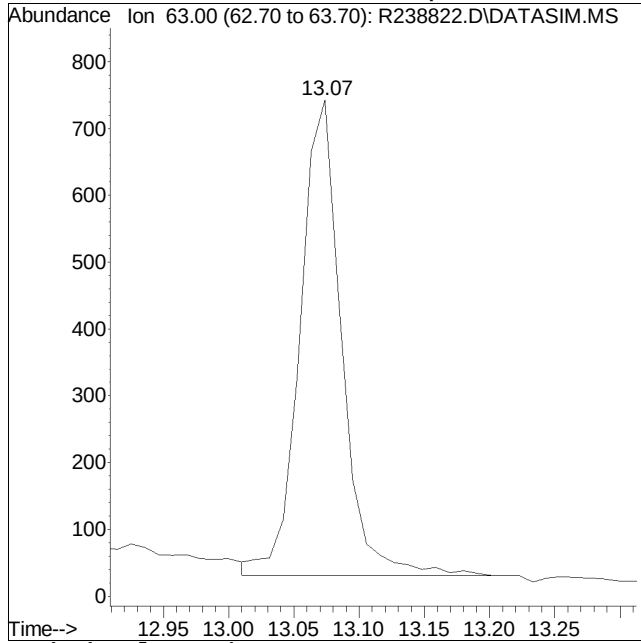


Manual Peak Response = 491 M6

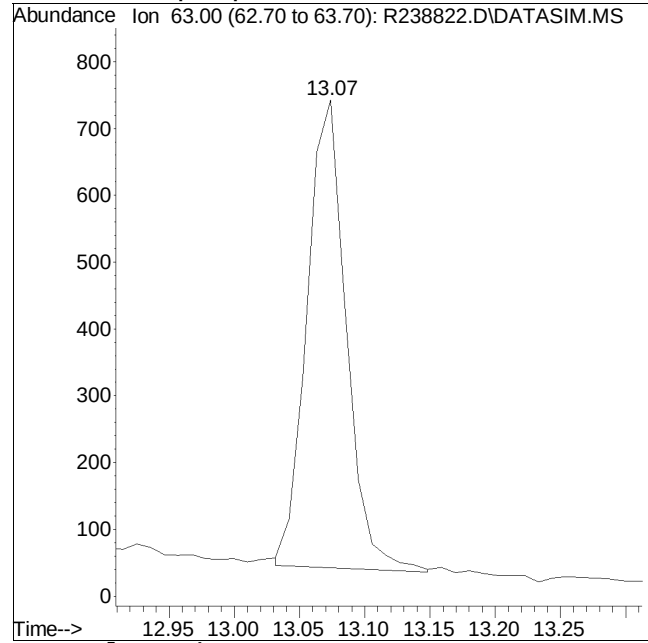
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 1579



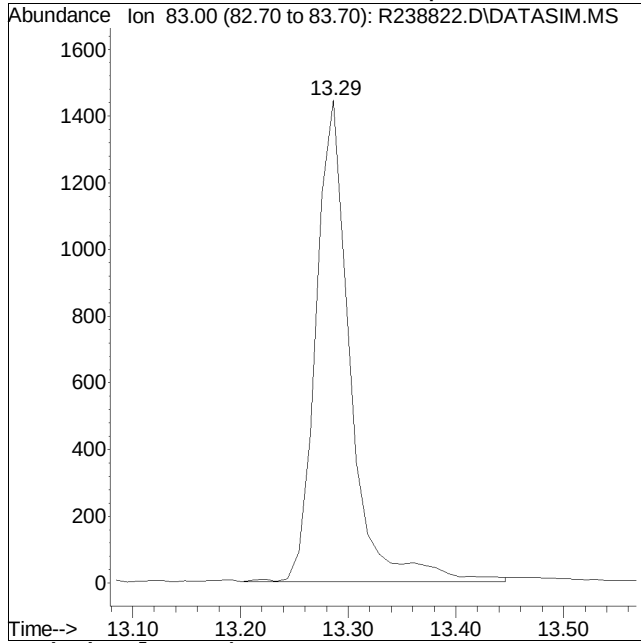
Manual Peak Response = 1461 M4

M4 = Poor automated baseline construction.

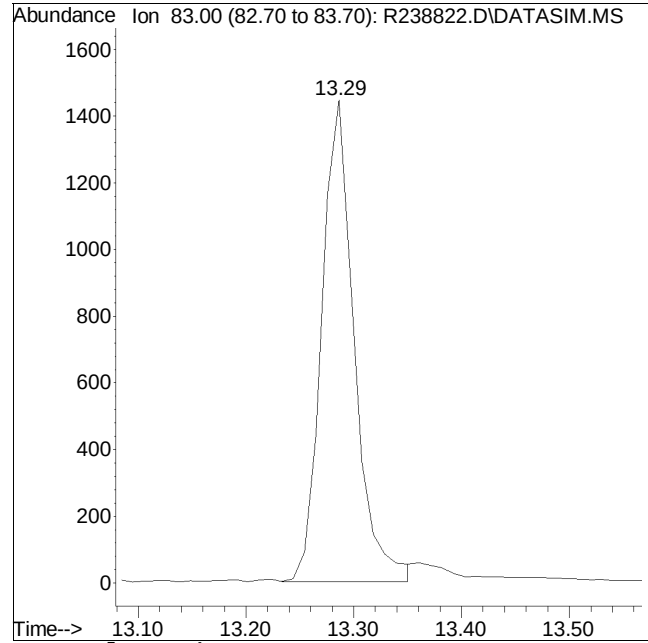
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #42: bromodichloromethane



Original Peak Response = 3197



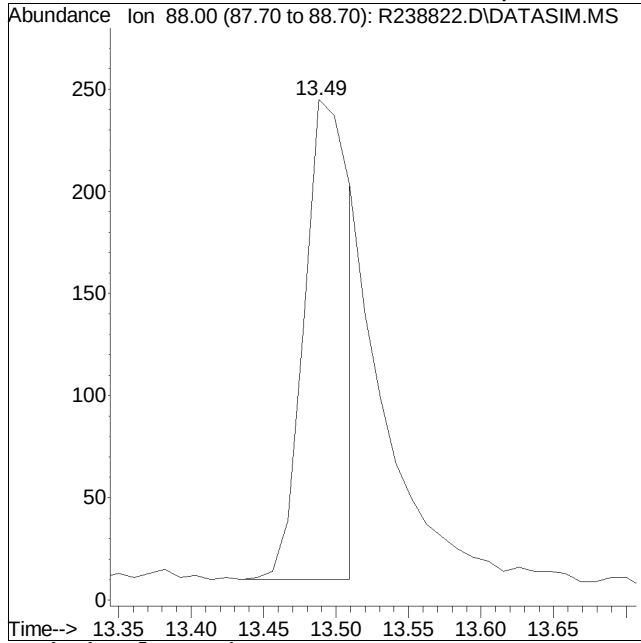
Manual Peak Response = 3031 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

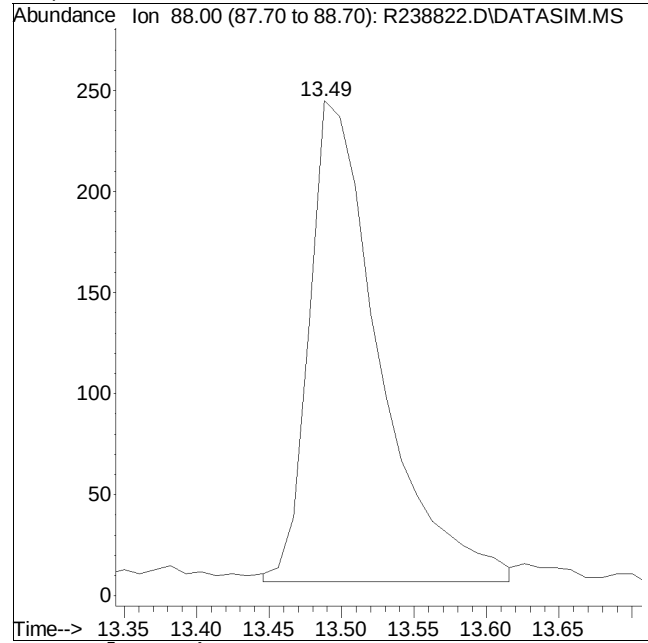
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 517

M4 = Poor automated baseline construction.

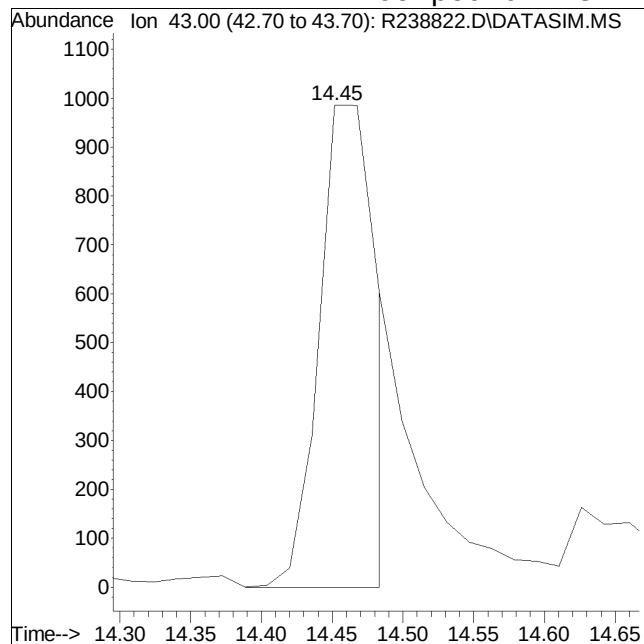


Manual Peak Response = 804 M4

Manual Integration/Negative Proof Report

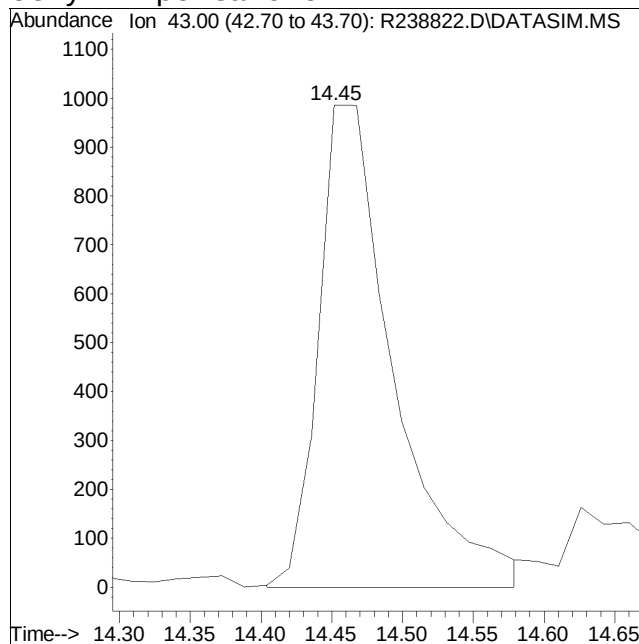
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 2783

M4 = Poor automated baseline construction.

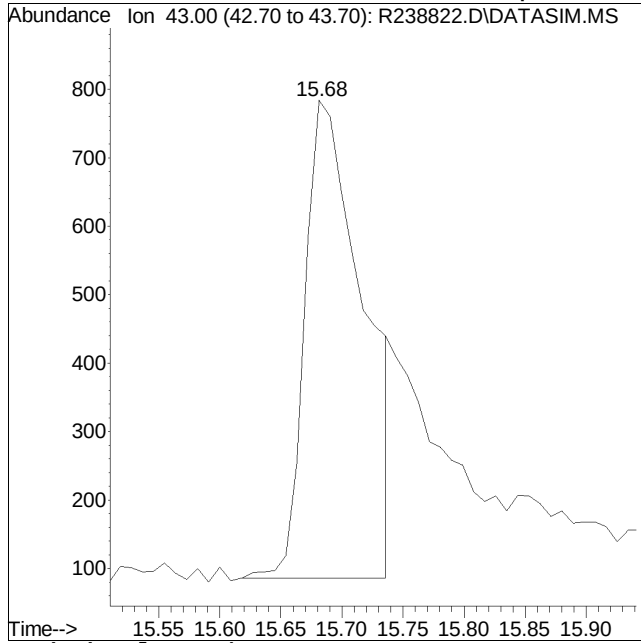


Manual Peak Response = 3640 M4

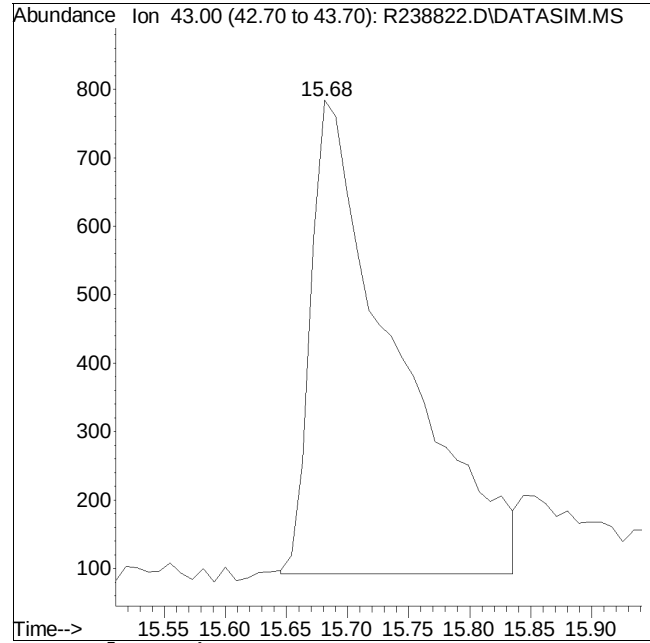
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #54: 2-hexanone



Original Peak Response = 2308



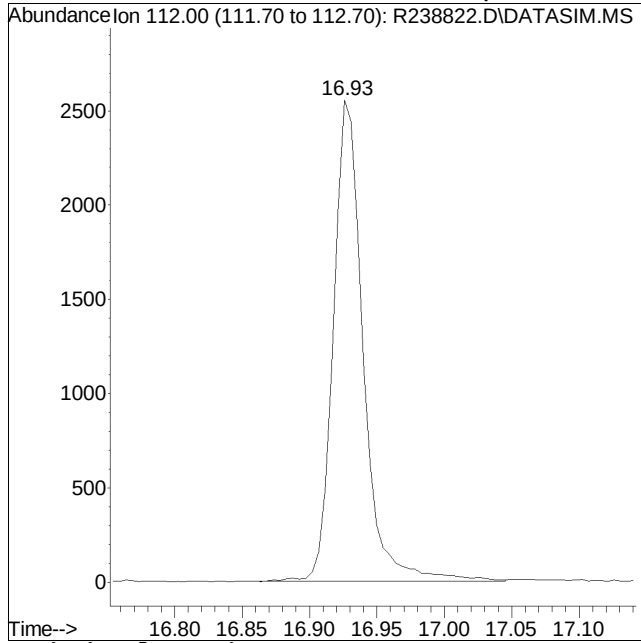
Manual Peak Response = 3340 M4

M4 = Poor automated baseline construction.

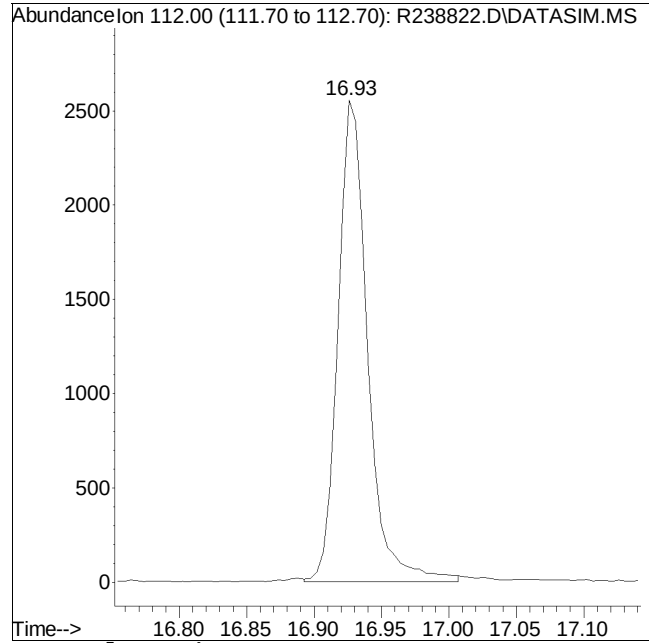
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #59: chlorobenzene



Original Peak Response = 3939



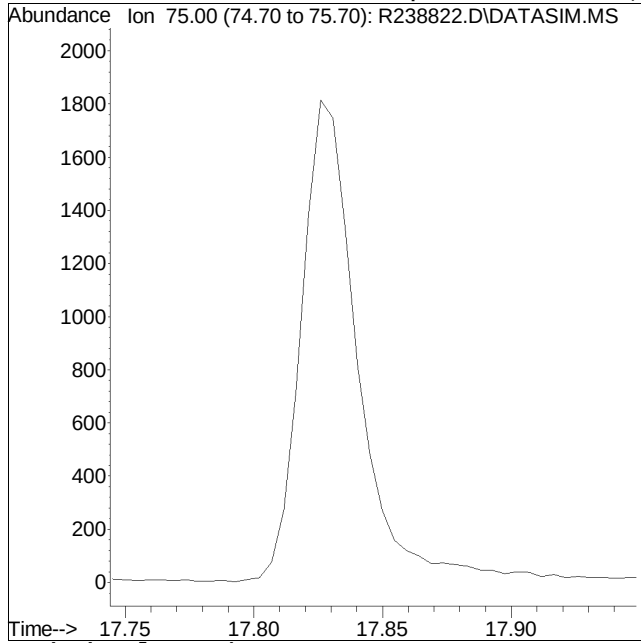
Manual Peak Response = 3893 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

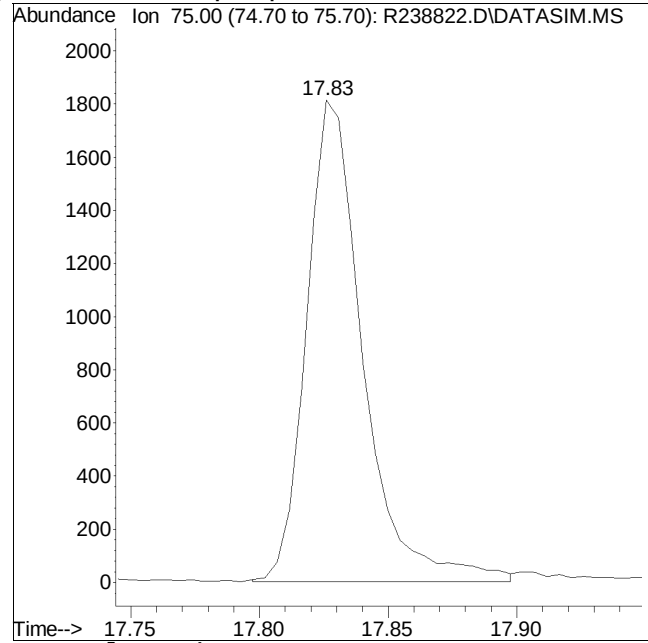
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #66: 1,2,3-trichloropropane



Original Peak Response = 0

M4 = Poor automated baseline construction.

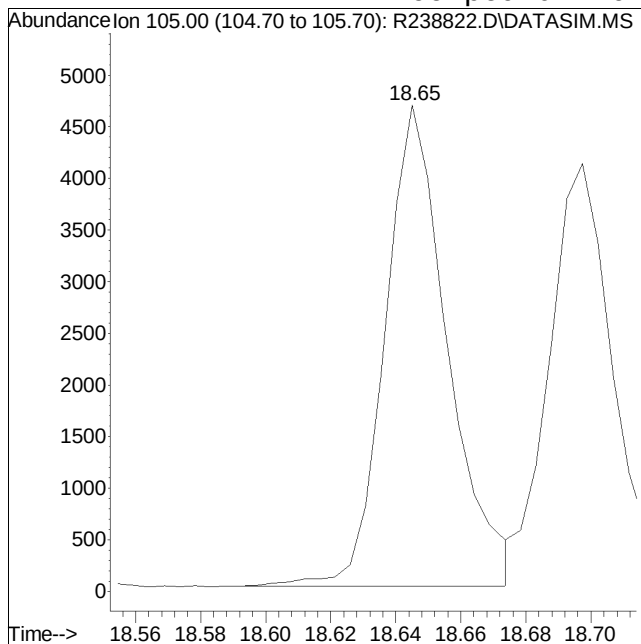


Manual Peak Response = 2762 M4

Manual Integration/Negative Proof Report

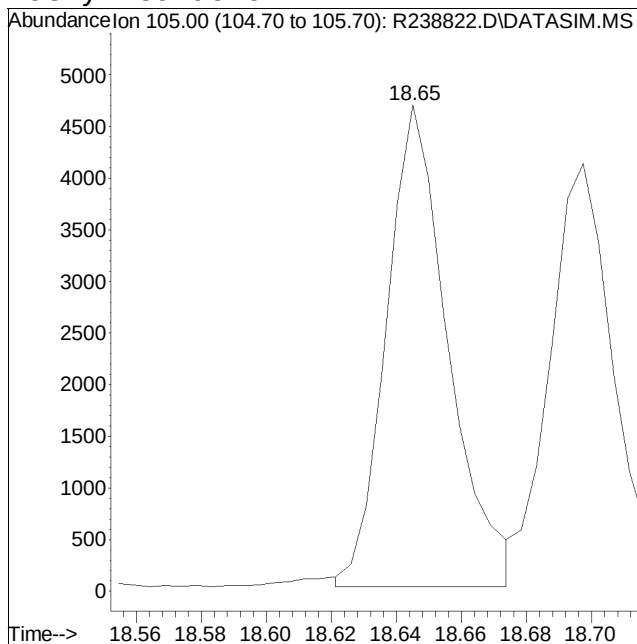
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 6215

M4 = Poor automated baseline construction.

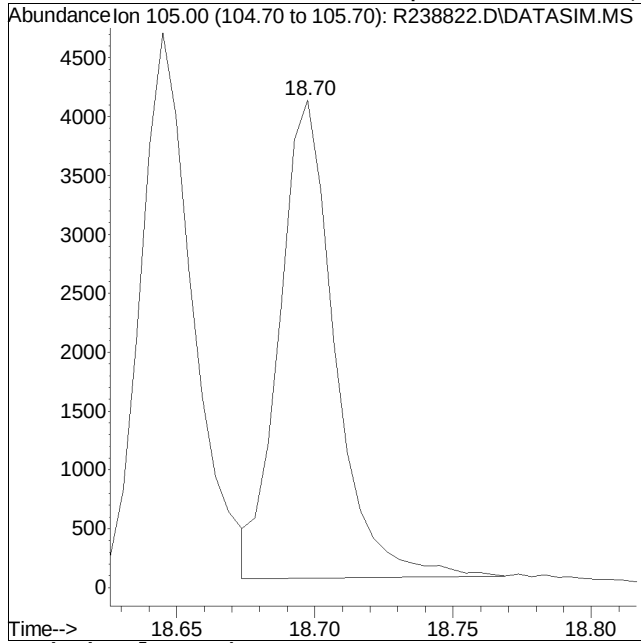


Manual Peak Response = 6172 M4

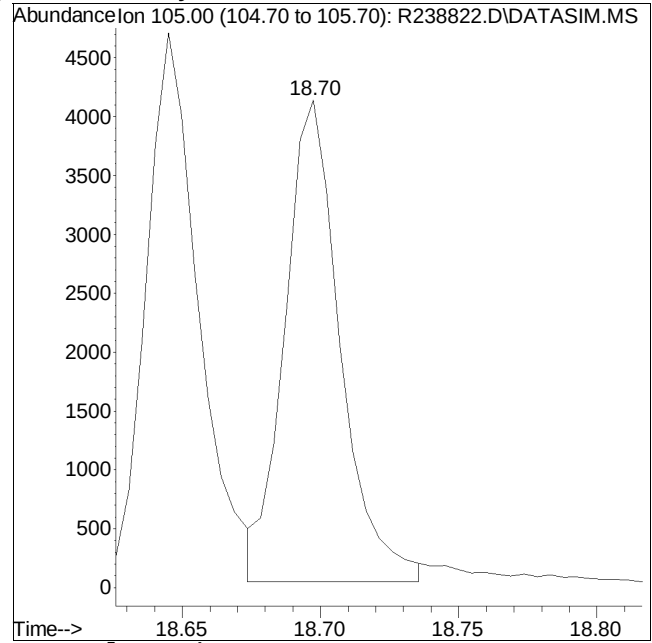
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 5674



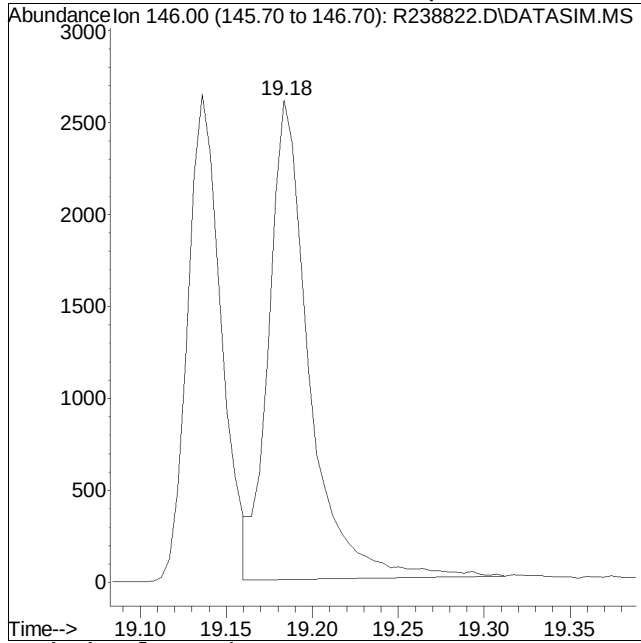
Manual Peak Response = 5701 M4

M4 = Poor automated baseline construction.

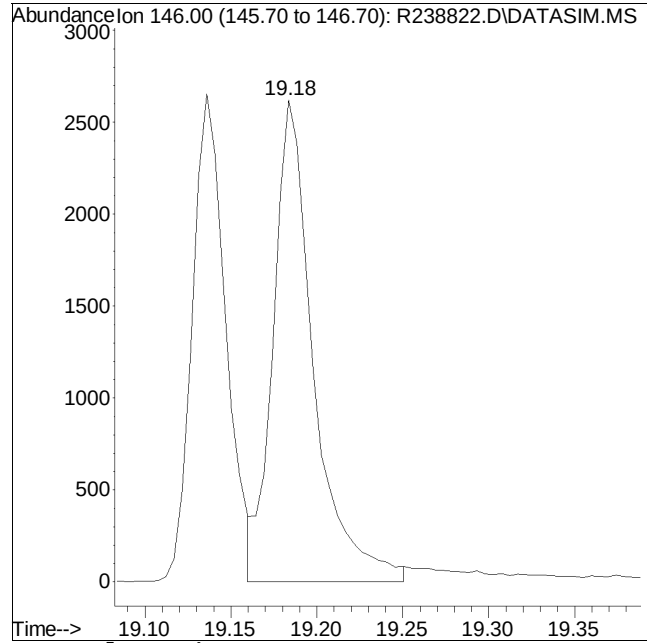
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238822.D
Date Inj'd : 2/7/2016 11:07 pm
Sample : IT015-SIMSTD0.1
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 4267



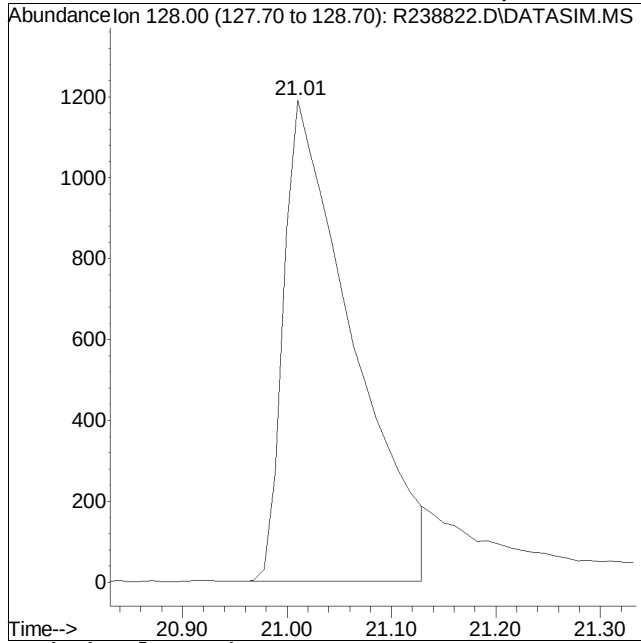
Manual Peak Response = 4274 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

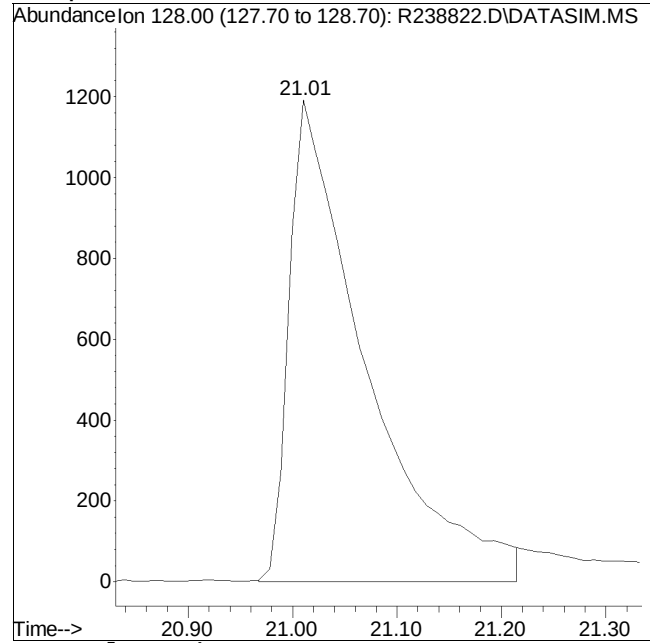
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238822.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:07 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.1 Quant Date : 2/9/2016 9:32 am

Compound #82: naphthalene



Original Peak Response = 5430

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 6066 M1

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.2
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:19:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	186951	10.000	ppbV	0.00
Standard Area = 188893			Recovery =		98.97%	
33) 1,4-difluorobenzene	12.54	114	440311	10.000	ppbV	0.00
Standard Area = 444195			Recovery =		99.13%	
51) chlorobenzene-D5	16.89	54	100450	10.000	ppbV	0.00
Standard Area = 100631			Recovery =		99.82%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	117203	10.157	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.57%	
53) toluene-D8	15.23	98	445286	10.066	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.66%	
67) bromofluorobenzene	18.06	95	239070	9.852	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.52%	
Target Compounds						
					Qvalue	
2) propylene	4.31	41	3037M6	0.276	ppbV	
3) dichlorodifluoromethane	4.42	85	5550	0.217	ppbV	100
4) chloromethane	4.65	50	2906M4	0.244	ppbV	
5) Freon-114	4.79	85	7773	0.244	ppbV	100
6) vinyl chloride	4.96	62	2891	0.240	ppbV	98
7) 1,3-butadiene	5.17	54	2213	0.248	ppbV	99
8) bromomethane	5.54	94	2449M4	0.235	ppbV	
9) chloroethane	5.79	64	1329M4	0.235	ppbV	
10) ethanol	6.08	31	12143	1.214	ppbV	98
11) vinyl bromide	6.28	106	2579	0.241	ppbV	97
12) acetone	6.72	43	24392	1.228	ppbV #	99
13) trichlorofluoromethane	6.84	101	7306	0.244	ppbV	100
14) isopropyl alcohol	7.10	45	13590M4	0.621	ppbV	
15) acrylonitrile	7.30	53	2197M4	0.237	ppbV	
16) 1,1-dichloroethene	7.66	61	5366	0.243	ppbV	98
17) tertiary butyl alcohol	7.93	59	6514	0.246	ppbV #	22
18) methylene chloride	7.83	49	4871	0.279	ppbV	89
19) 3-chloropropene	7.97	41	5212M6	0.278	ppbV	
20) carbon disulfide	8.16	76	8984	0.246	ppbV	99
21) Freon 113	8.17	101	6292	0.244	ppbV	98
22) Halothane	8.74	117	4938	0.244	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	5103	0.240	ppbV	94
24) 1,1-dichloroethane	9.21	63	5903	0.242	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.2
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:19:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.39	73	8039	0.240	ppbV	100
26) vinyl acetate	9.45	43	5501	0.198	ppbV	98
27) 2-butanone	9.79	43	7196M1	0.229	ppbV	
28) cis-1,2-dichloroethene	10.19	61	4634	0.243	ppbV	98
29) Ethyl Acetate	10.55	61	1064M6	0.271	ppbV	
30) chloroform	10.53	83	6616	0.244	ppbV	99
31) Tetrahydrofuran	11.09	42	4099M6	0.254	ppbV	
32) 1,2-dichloroethane	11.36	62	4560	0.236	ppbV	97
34) hexane	10.43	57	4822	0.246	ppbV #	59
36) 1,1,1-trichloroethane	11.64	97	6624	0.239	ppbV	98
37) benzene	12.15	78	9402	0.253	ppbV	98
38) carbon tetrachloride	12.32	117	7253	0.241	ppbV	99
39) cyclohexane	12.46	56	5283	0.249	ppbV	98
40) dibromomethane	13.04	93	3974	0.242	ppbV	99
41) 1,2-dichloropropane	13.07	63	3577M4	0.234	ppbV	
42) bromodichloromethane	13.29	83	7312M4	0.234	ppbV	
43) 1,4-dioxane	13.47	88	2011M4	0.234	ppbV	
44) trichloroethene	13.33	130	4264	0.235	ppbV	99
45) 2,2,4-trimethylpentane	13.36	57	15638	0.235	ppbV	97
46) heptane	13.65	43	6562	0.238	ppbV	100
47) cis-1,3-dichloropropene	14.29	75	19369M4	0.238	ppbV	
48) 4-methyl-2-pentanone	14.42	43	9160M4	0.228	ppbV	
49) trans-1,3-dichloropropene	14.87	75	6392	0.227	ppbV	96
50) 1,1,2-trichloroethane	15.05	97	4994	0.241	ppbV	91
52) toluene	15.32	91	15959	0.243	ppbV	99
54) 2-hexanone	15.65	43	9728M4	0.186	ppbV	
55) dibromochloromethane	15.74	129	9458	0.235	ppbV	100
56) 1,2-dibromoethane	15.96	107	7989	0.235	ppbV	98
57) tetrachloroethene	16.36	166	6935	0.241	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.91	131	5268	0.237	ppbV	97
59) chlorobenzene	16.93	112	9585	0.241	ppbV	98
60) ethylbenzene	17.22	91	14303	0.235	ppbV	100
61) m+p-xylene	17.36	91	22270	0.470	ppbV	98
62) bromoform	17.44	173	6963	0.226	ppbV	99
63) styrene	17.64	104	8192	0.224	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.73	83	9015	0.237	ppbV	100
65) o-xylene	17.72	91	11860	0.242	ppbV	99
66) 1,2,3-trichloropropane	17.83	75	7082	0.232	ppbV	98
68) isopropylbenzene	18.16	105	15609	0.239	ppbV	100
69) bromobenzene	18.24	77	8664	0.235	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238823.D
 Acq On : 7 Feb 2016 11:39 pm
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.2
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:19:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

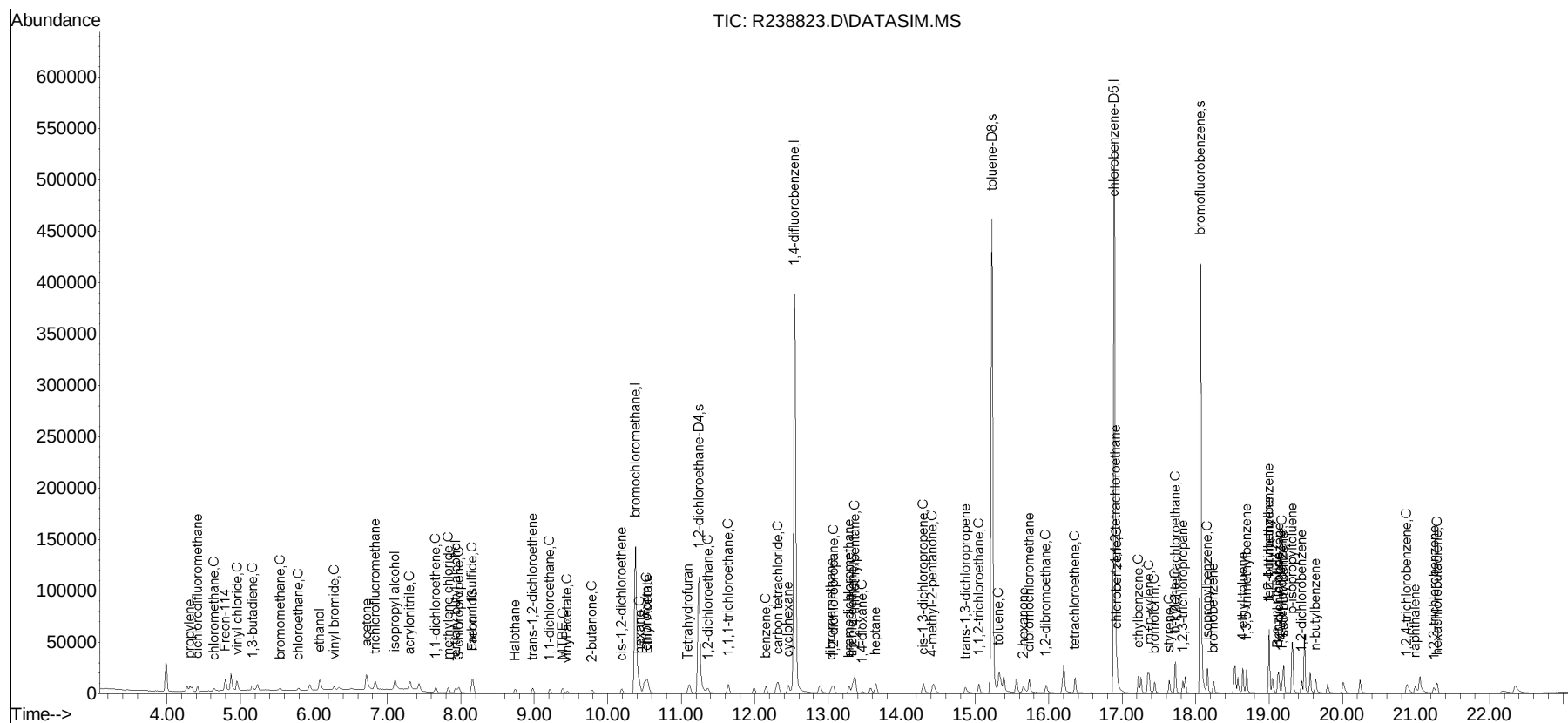
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	15997M6	0.224	ppbV	
71) 1,3,5-trimethylbenzene	18.69	105	14455	0.244	ppbV	99
72) tert-butylbenzene	19.00	119	14146	0.239	ppbV	100
73) 1,2,4-trimethylbenzene	19.00	105	13541	0.231	ppbV	96
74) Benzyl Chloride	19.12	91	10650	0.194	ppbV	95
75) 1,3-dichlorobenzene	19.13	146	9685	0.214	ppbV	95
76) 1,4-dichlorobenzene	19.18	146	10683	0.228	ppbV	98
77) sec-butylbenzene	19.20	105	19819	0.231	ppbV	98
78) p-isopropyltoluene	19.31	119	16851	0.228	ppbV	100
79) 1,2-dichlorobenzene	19.44	146	9860	0.223	ppbV	95
80) n-butylbenzene	19.63	91	15658	0.214	ppbV	97
81) 1,2,4-trichlorobenzene	20.87	180	7976	0.191	ppbV #	86
82) naphthalene	20.99	128	15821	0.176	ppbV	98
83) 1,2,3-trichlorobenzene	21.25	180	7582	0.187	ppbV	98
84) hexachlorobutadiene	21.29	225	7106	0.211	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238823.D
Acq On    : 7 Feb 2016 11:39 pm
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD0.2
Misc      : WG863731
ALS Vial  : 6 Sample Multiplier: 1
```

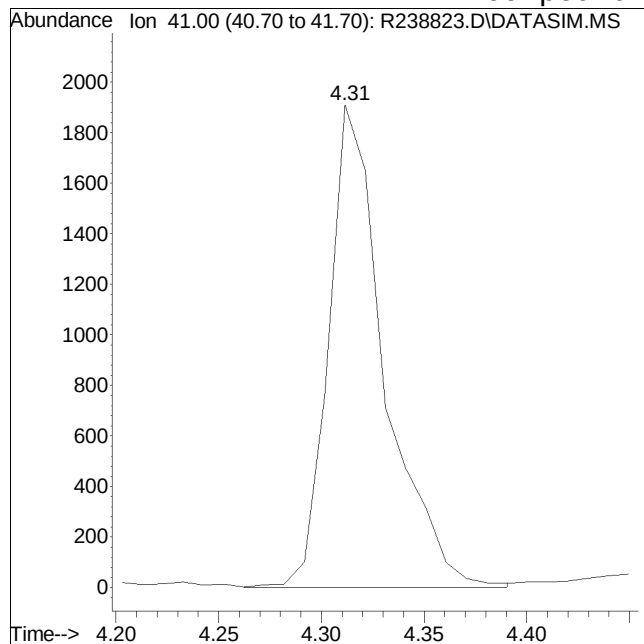
Quant Time: Feb 09 10:19:12 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

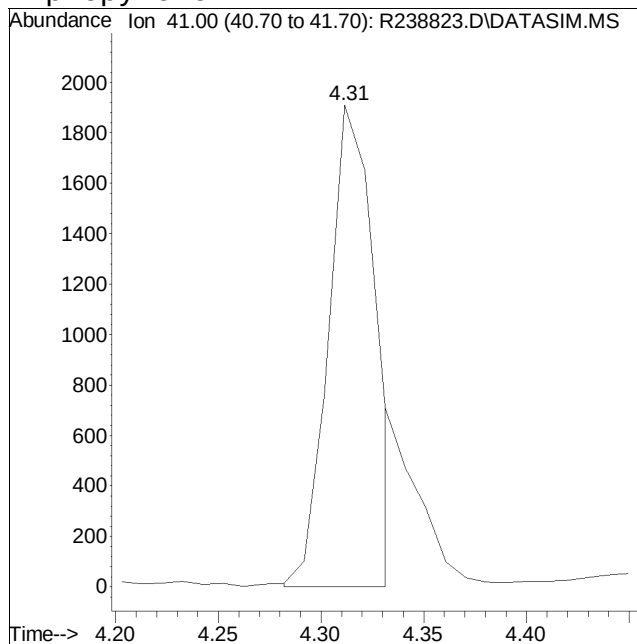
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 3603

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

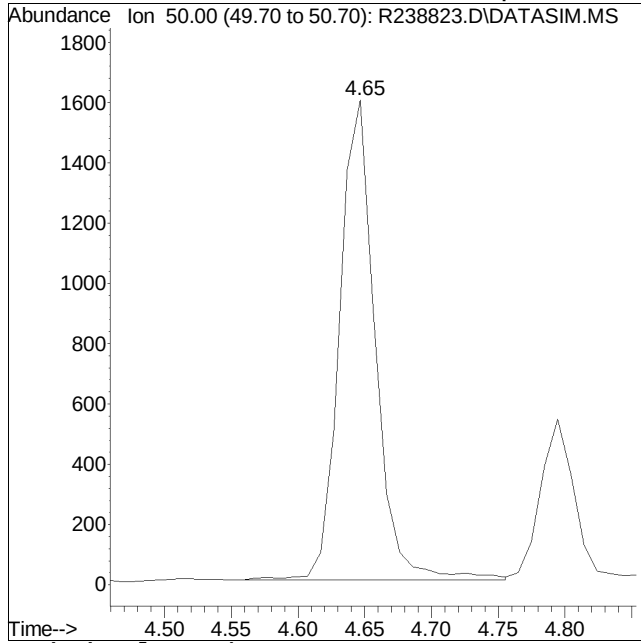


Manual Peak Response = 3037 M6

Manual Integration/Negative Proof Report

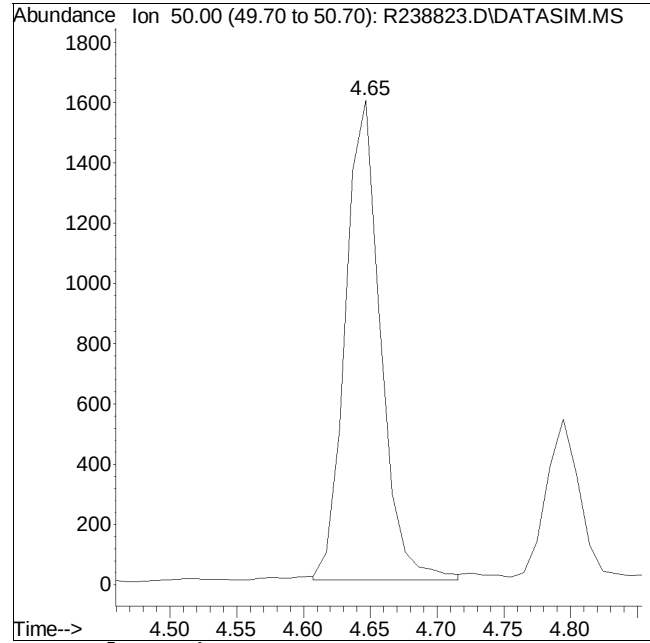
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #4: chloromethane



Original Peak Response = 2979

M4 = Poor automated baseline construction.

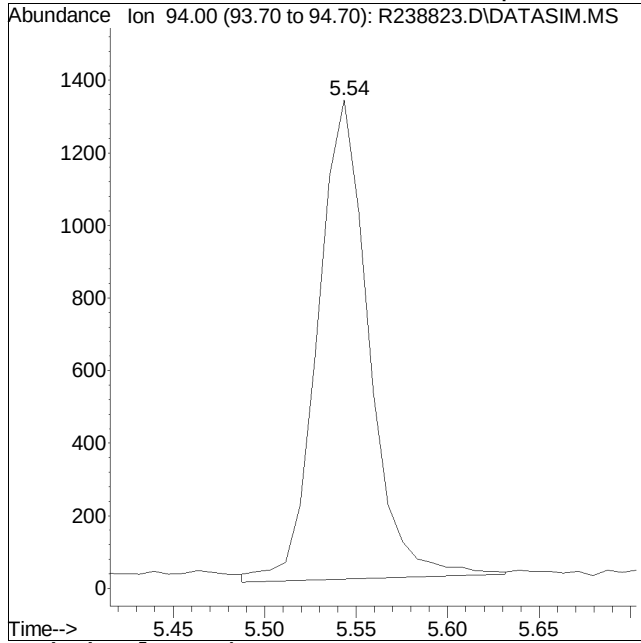


Manual Peak Response = 2906 M4

Manual Integration/Negative Proof Report

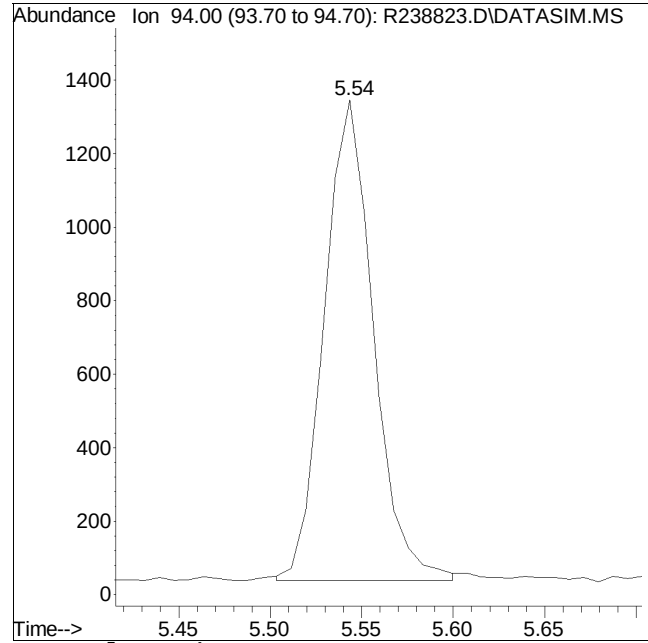
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #8: bromomethane



Original Peak Response = 2568

M4 = Poor automated baseline construction.



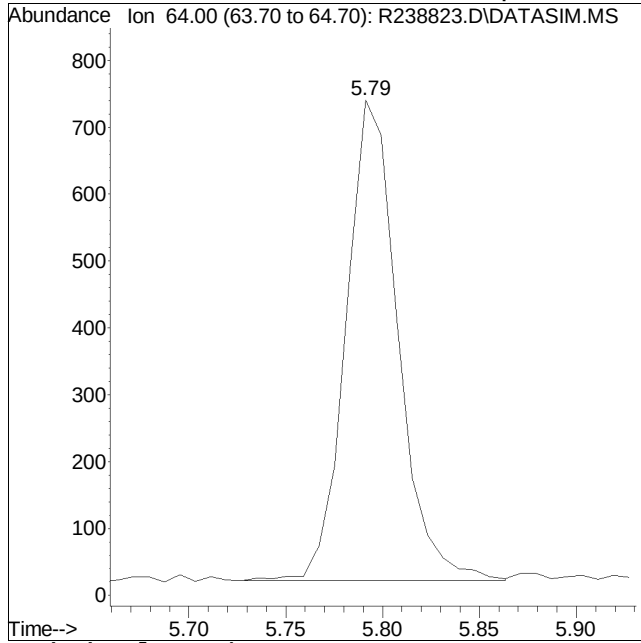
Manual Peak Response = 2449 M4

Manual Integration/Negative Proof Report

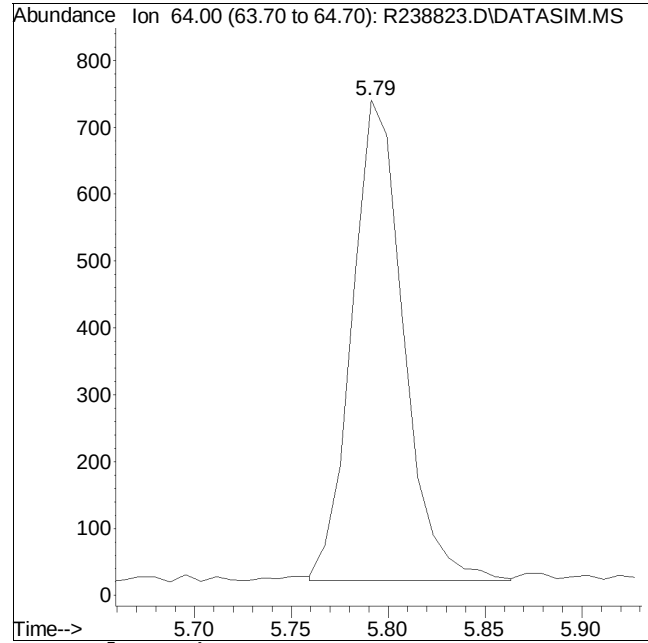
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Data File : R238823.D
Date Inj'd : 2/7/2016 11:39 pm
Sample : IT015-SIMSTD0.2

Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #9: chloroethane



Original Peak Response = 1339



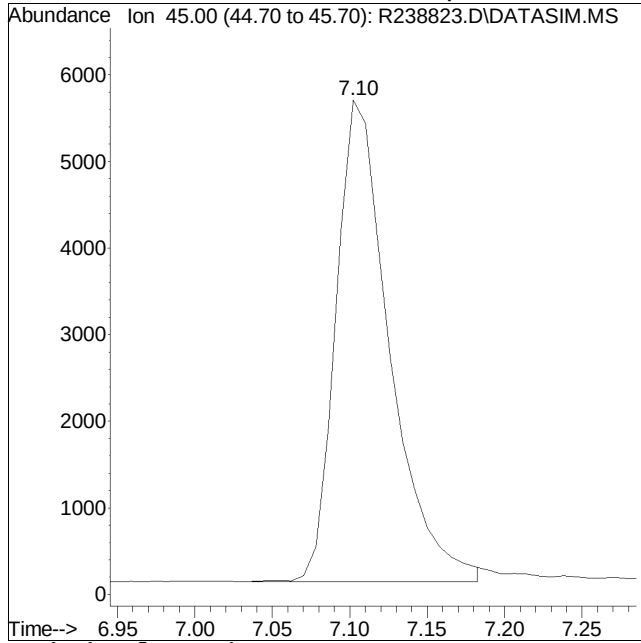
Manual Peak Response = 1329 M4

M4 = Poor automated baseline construction.

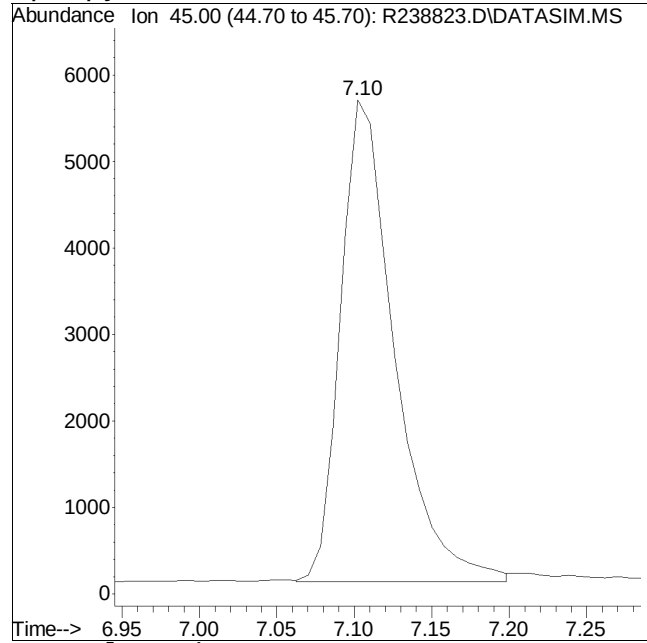
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #14: isopropyl alcohol



Original Peak Response = 13457



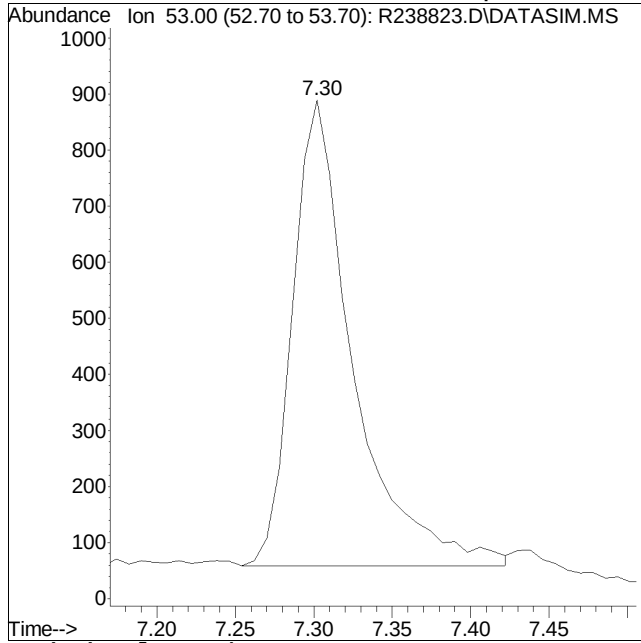
Manual Peak Response = 13590 M4

M4 = Poor automated baseline construction.

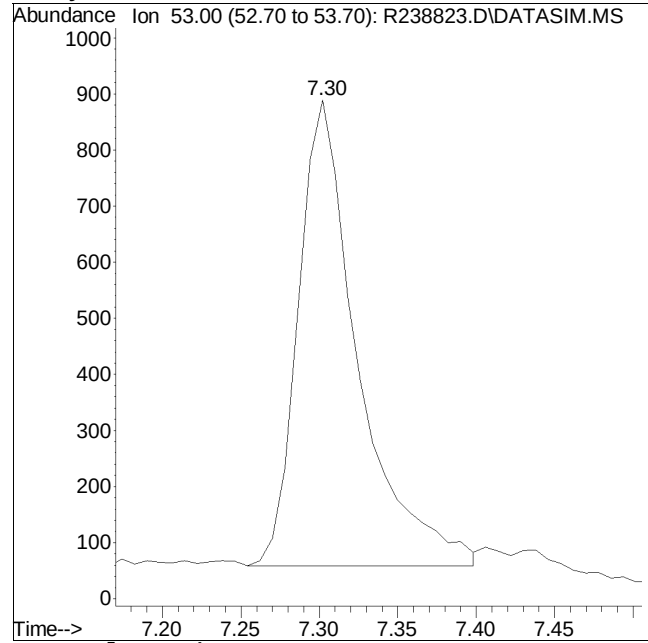
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 2234



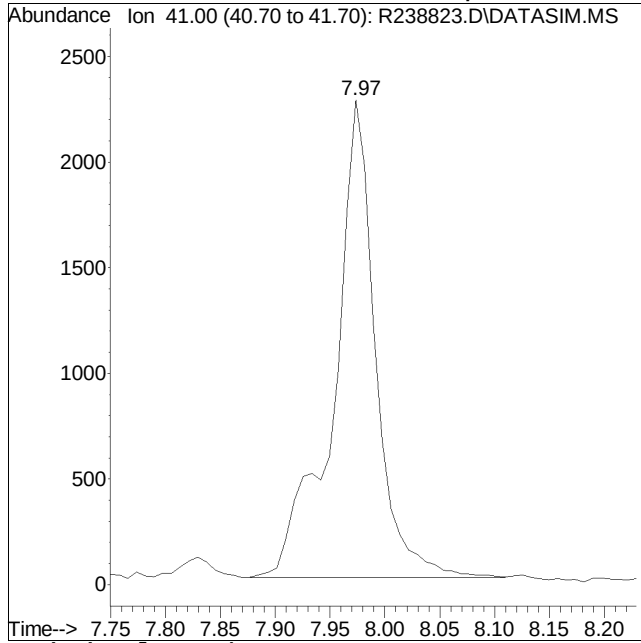
Manual Peak Response = 2197 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

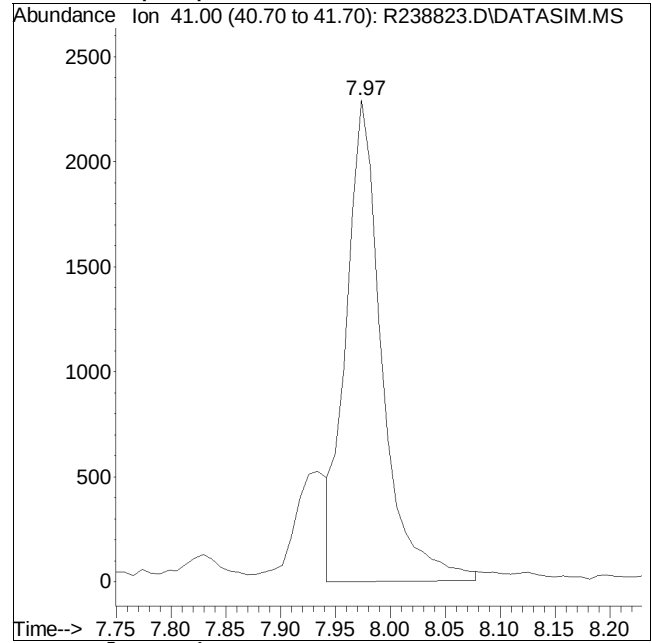
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Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #19: 3-chloropropene



Original Peak Response = 5971

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

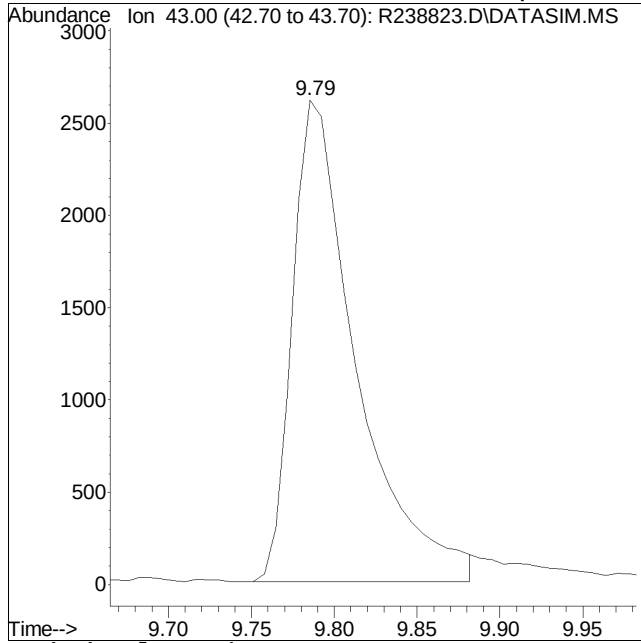


Manual Peak Response = 5212 M6

Manual Integration/Negative Proof Report

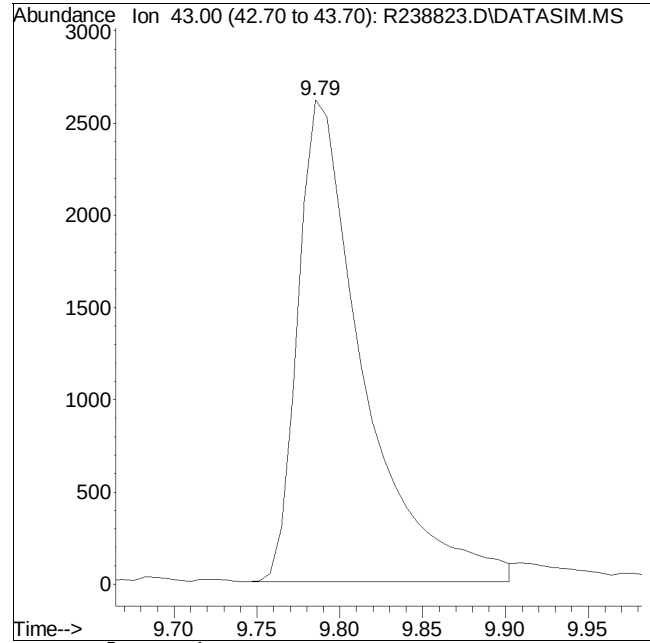
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238823.D
Date Inj'd : 2/7/2016 11:39 pm
Sample : IT015-SIMSTD0.2
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #27: 2-butanone



Original Peak Response = 7035

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

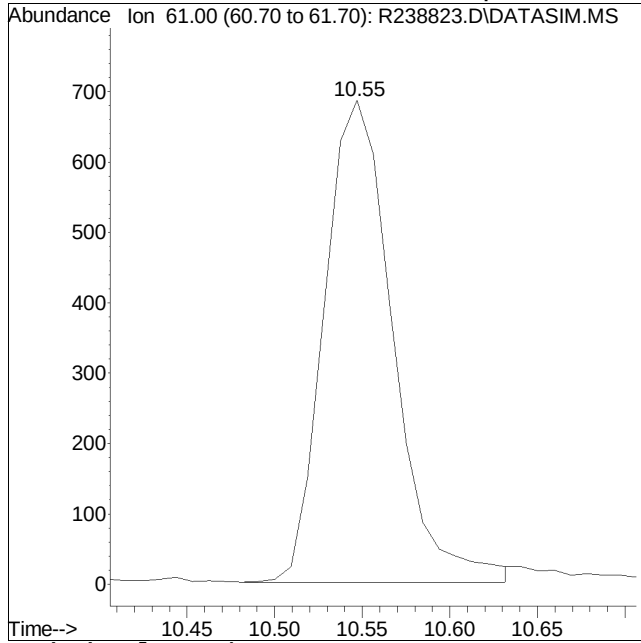


Manual Peak Response = 7196 M1

Manual Integration/Negative Proof Report

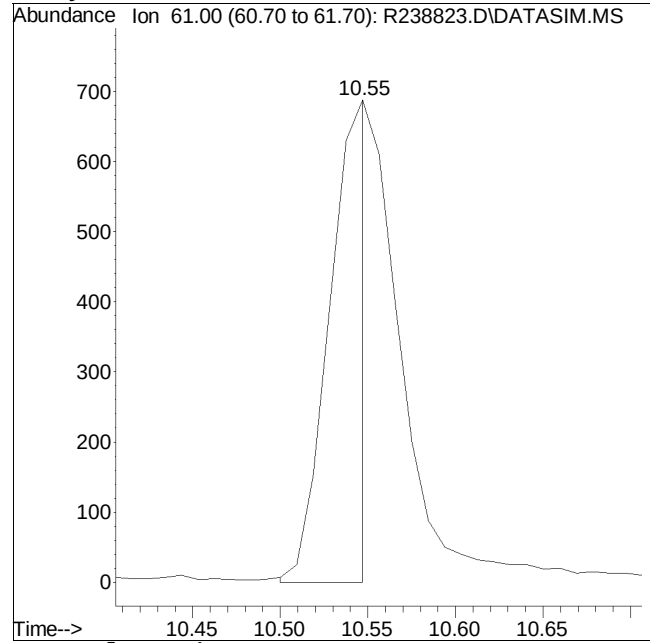
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #29: Ethyl Acetate



Original Peak Response = 1871

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

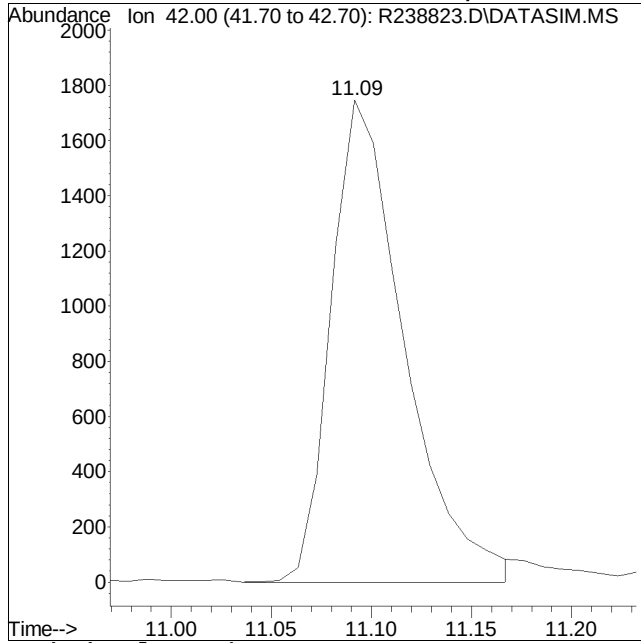


Manual Peak Response = 1064 M6

Manual Integration/Negative Proof Report

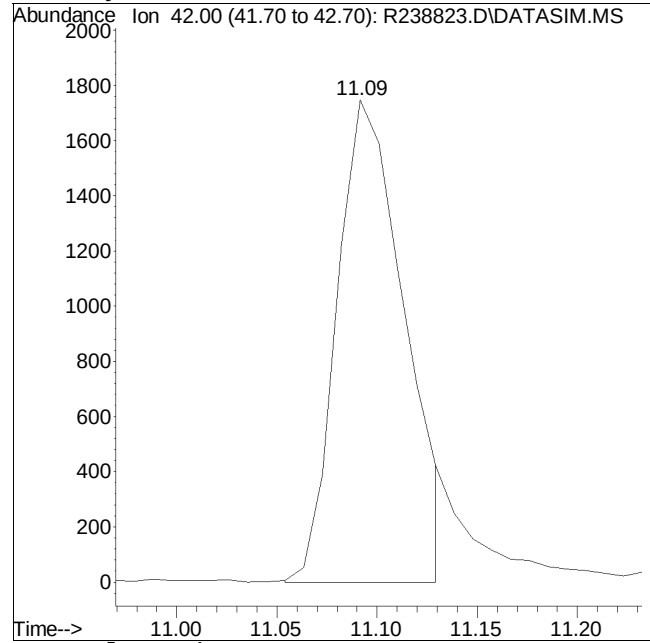
Data Path : 0:\Forensics\Data\AIR2\20160207.M
Data File : R238823.D
Date Inj'd : 2/7/2016 11:39 pm
Sample : IT015-SIMSTD0.2
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 4444

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

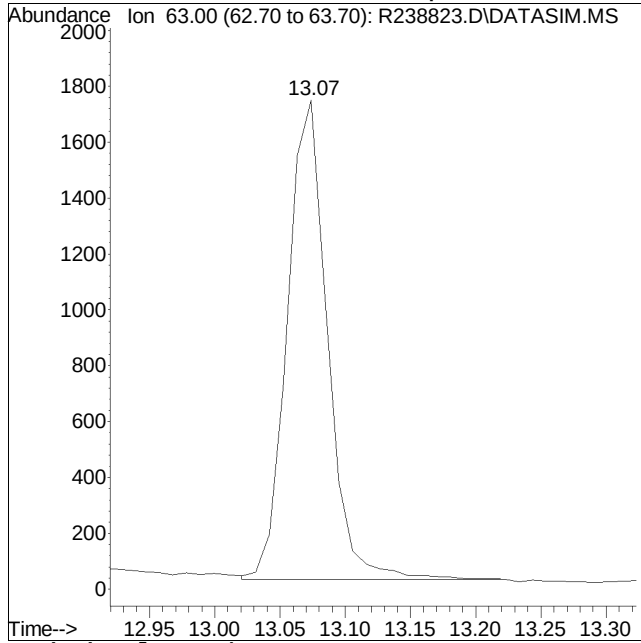


Manual Peak Response = 4099 M6

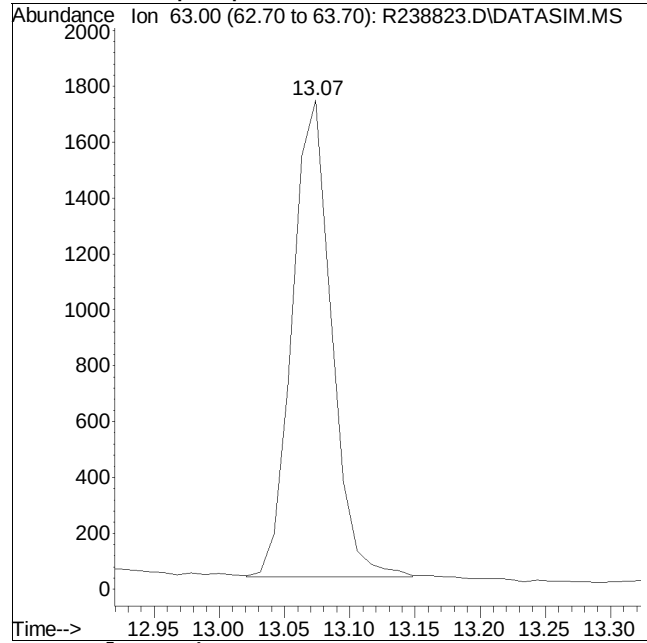
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 3665



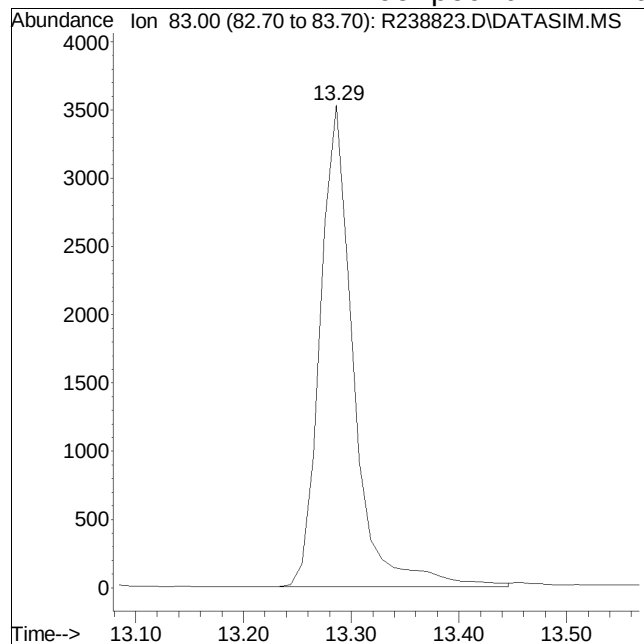
Manual Peak Response = 3577 M4

M4 = Poor automated baseline construction.

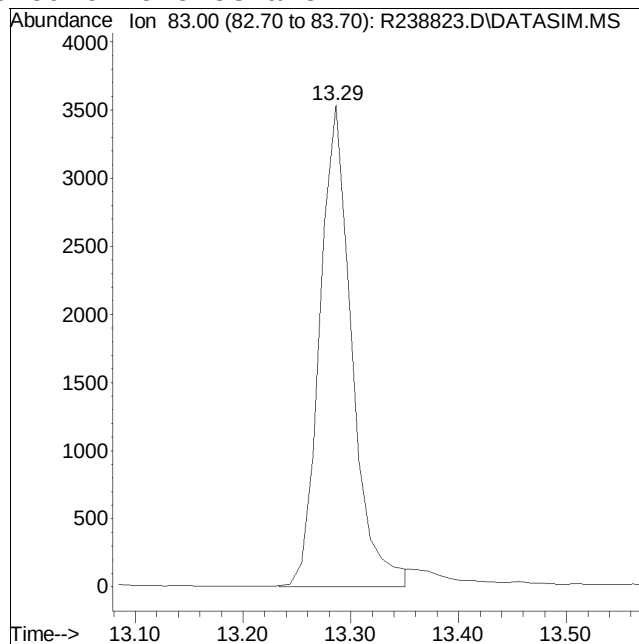
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #42: bromodichloromethane



Original Peak Response = 7601



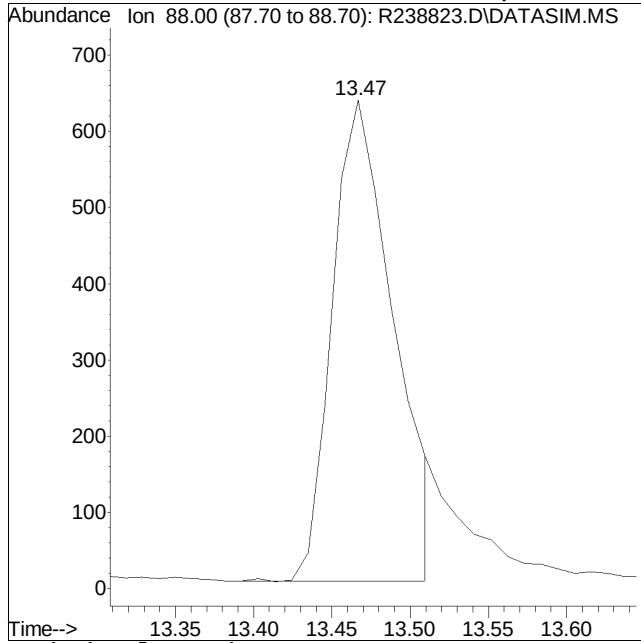
Manual Peak Response = 7312 M4

M4 = Poor automated baseline construction.

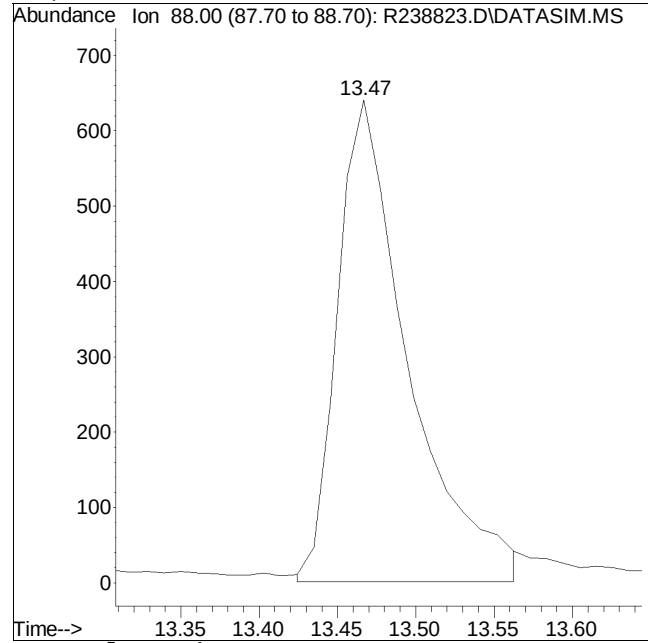
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 1721



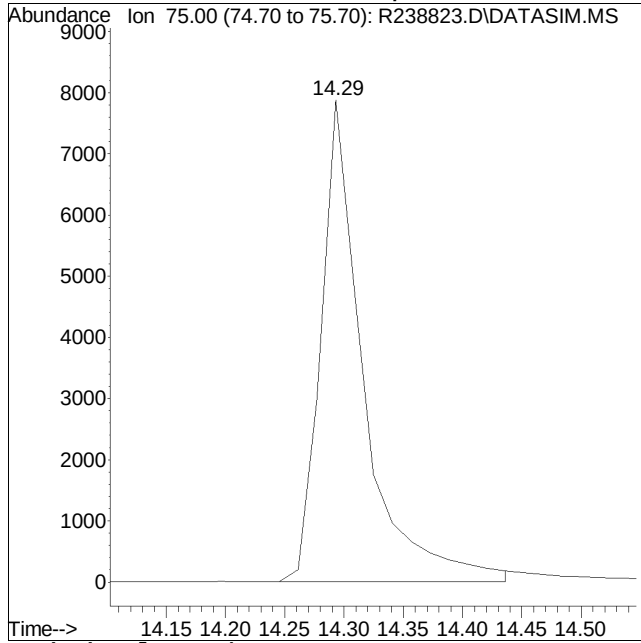
Manual Peak Response = 2011 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

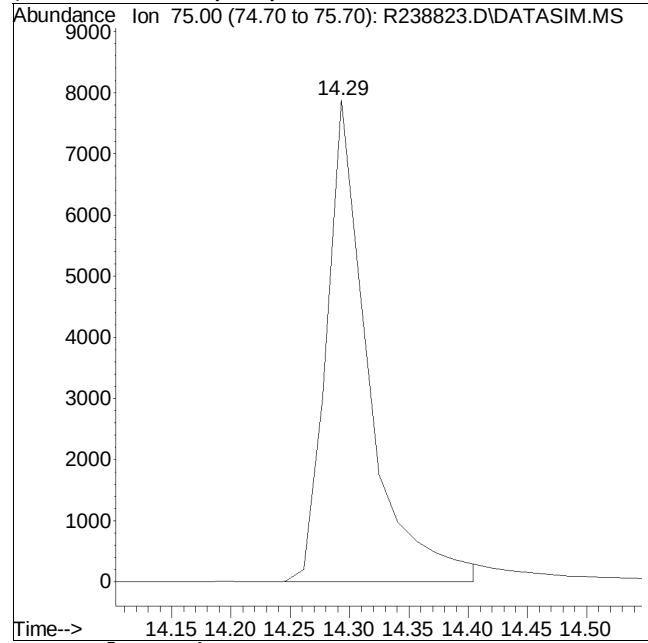
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 19748

M4 = Poor automated baseline construction.

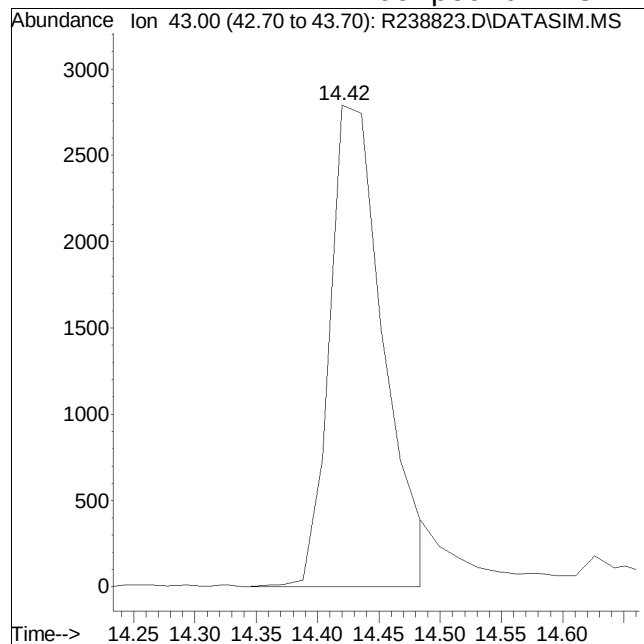


Manual Peak Response = 19369 M4

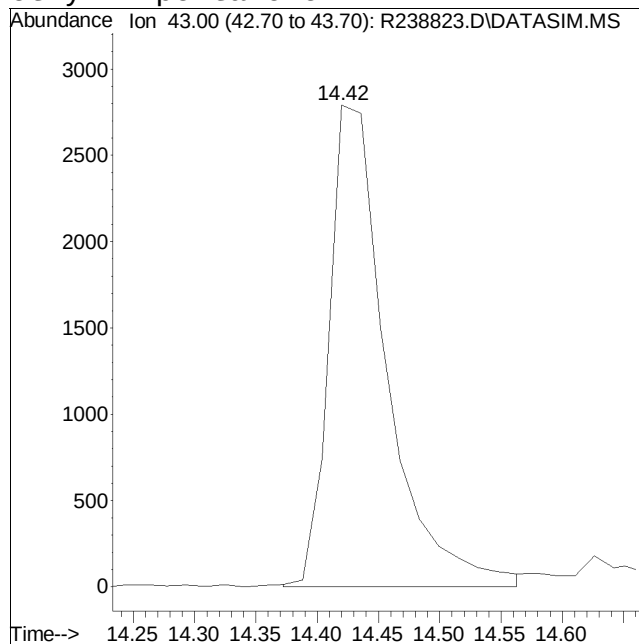
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 8534



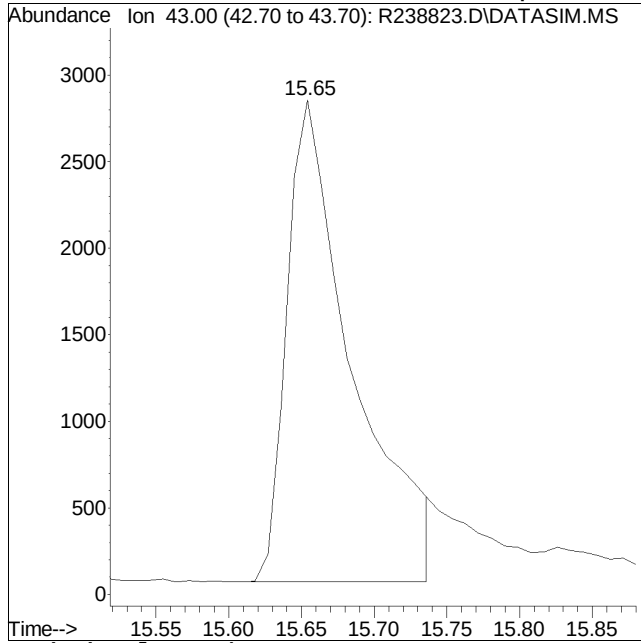
Manual Peak Response = 9160 M4

M4 = Poor automated baseline construction.

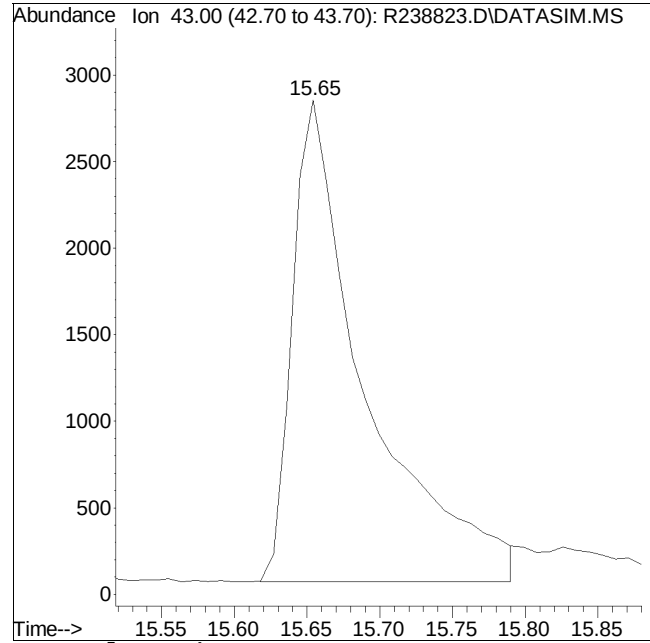
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #54: 2-hexanone



Original Peak Response = 8711



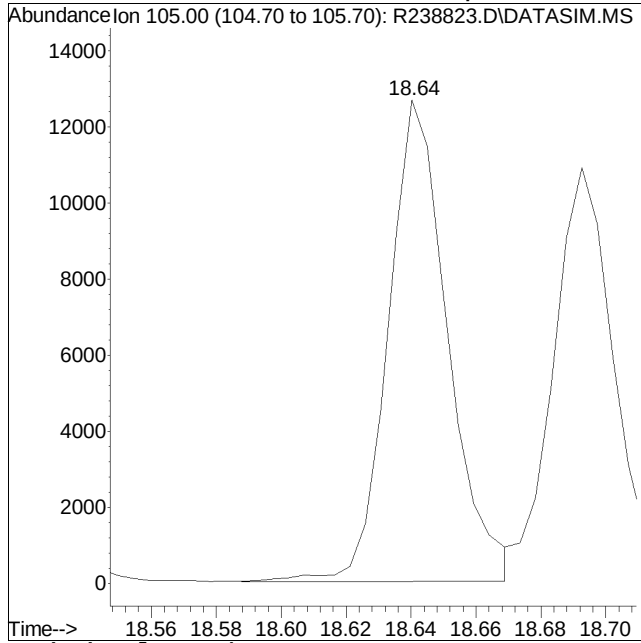
Manual Peak Response = 9728 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

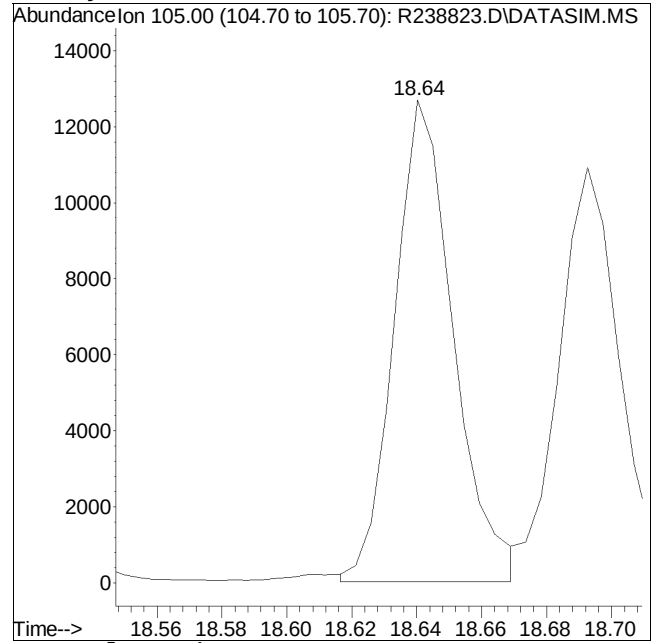
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238823.D Operator : AIRPIAN02:MR
Date Inj'd : 2/7/2016 11:39 pm Instrument : Air Piano 2
Sample : IT015-SIMSTD0.2 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 16087

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 15997 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.5
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:16:58 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	186652	10.000	ppbV	0.00
Standard Area = 188893			Recovery =		98.81%	
33) 1,4-difluorobenzene	12.54	114	432918	10.000	ppbV	0.00
Standard Area = 444195			Recovery =		97.46%	
51) chlorobenzene-D5	16.89	54	99671	10.000	ppbV	0.00
Standard Area = 100631			Recovery =		99.05%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	117043	10.316	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.16%	
53) toluene-D8	15.23	98	440587	10.037	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		100.37%	
67) bromofluorobenzene	18.06	95	239956	9.966	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.66%	
Target Compounds						
					Qvalue	
2) propylene	4.31	41	6738M6	0.613	ppbV	
3) dichlorodifluoromethane	4.42	85	14379	0.564	ppbV	99
4) chloromethane	4.65	50	7277	0.611	ppbV	98
5) Freon-114	4.79	85	19150	0.602	ppbV	99
6) vinyl chloride	4.96	62	7364	0.612	ppbV	100
7) 1,3-butadiene	5.16	54	5334	0.599	ppbV #	78
8) bromomethane	5.54	94	5992M4	0.576	ppbV	
9) chloroethane	5.79	64	3306	0.585	ppbV	95
10) ethanol	6.06	31	29162	2.920	ppbV	100
11) vinyl bromide	6.27	106	6305	0.590	ppbV	100
12) acetone	6.69	43	59215	2.985	ppbV #	100
13) trichlorofluoromethane	6.84	101	17903	0.599	ppbV	100
14) isopropyl alcohol	7.08	45	32587	1.492	ppbV	100
15) acrylonitrile	7.29	53	5404	0.584	ppbV	98
16) 1,1-dichloroethene	7.66	61	13301	0.604	ppbV	98
17) tertiary butyl alcohol	7.90	59	16009	0.605	ppbV #	93
18) methylene chloride	7.83	49	10964	0.628	ppbV	92
19) 3-chloropropene	7.97	41	11501	0.615	ppbV	97
20) carbon disulfide	8.16	76	21604	0.592	ppbV	99
21) Freon 113	8.17	101	15455	0.599	ppbV	98
22) Halothane	8.74	117	11991	0.594	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	12499	0.588	ppbV	96
24) 1,1-dichloroethane	9.21	63	14444	0.593	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.5
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:16:58 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.36	73	19761	0.590	ppbV	98
26) vinyl acetate	9.44	43	14940M4	0.539	ppbV	
27) 2-butanone	9.76	43	17867	0.569	ppbV	100
28) cis-1,2-dichloroethene	10.19	61	11225	0.590	ppbV	98
29) Ethyl Acetate	10.52	61	1780M6	0.454	ppbV	
30) chloroform	10.53	83	16098	0.596	ppbV	99
31) Tetrahydrofuran	11.07	42	9767M6	0.606	ppbV	
32) 1,2-dichloroethane	11.35	62	11334	0.588	ppbV	98
34) hexane	10.43	57	11699	0.608	ppbV #	59
36) 1,1,1-trichloroethane	11.64	97	16473	0.606	ppbV	98
37) benzene	12.15	78	21942	0.601	ppbV	98
38) carbon tetrachloride	12.32	117	17378	0.586	ppbV	100
39) cyclohexane	12.46	56	12468	0.597	ppbV	97
40) dibromomethane	13.04	93	9629	0.596	ppbV	100
41) 1,2-dichloropropane	13.06	63	8777	0.585	ppbV	98
42) bromodichloromethane	13.29	83	18494	0.603	ppbV	100
43) 1,4-dioxane	13.43	88	4802M4	0.568	ppbV	
44) trichloroethene	13.33	130	10493	0.588	ppbV	99
45) 2,2,4-trimethylpentane	13.36	57	37743	0.576	ppbV	97
46) heptane	13.65	43	15911	0.587	ppbV	99
47) cis-1,3-dichloropropene	14.29	75	44899M6	0.562	ppbV	
48) 4-methyl-2-pentanone	14.40	43	21625	0.549	ppbV	99
49) trans-1,3-dichloropropene	14.87	75	15700	0.566	ppbV	99
50) 1,1,2-trichloroethane	15.05	97	12055	0.591	ppbV	94
52) toluene	15.32	91	38493	0.590	ppbV	100
54) 2-hexanone	15.63	43	27389M1	0.528	ppbV	
55) dibromochloromethane	15.74	129	22830	0.571	ppbV	99
56) 1,2-dibromoethane	15.96	107	19236	0.571	ppbV	99
57) tetrachloroethene	16.36	166	16754	0.586	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.91	131	12734	0.577	ppbV	99
59) chlorobenzene	16.93	112	23112	0.586	ppbV	98
60) ethylbenzene	17.22	91	34897	0.579	ppbV	99
61) m+p-xylene	17.36	91	54529	1.159	ppbV	100
62) bromoform	17.44	173	17280	0.566	ppbV	100
63) styrene	17.64	104	20337	0.560	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.72	83	21584	0.573	ppbV	100
65) o-xylene	17.72	91	28457	0.585	ppbV	99
66) 1,2,3-trichloropropane	17.82	75	17074	0.565	ppbV	99
68) isopropylbenzene	18.15	105	37622	0.581	ppbV	97
69) bromobenzene	18.24	77	20959	0.574	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238824.D
 Acq On : 8 Feb 2016 12:13 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD0.5
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:16:58 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

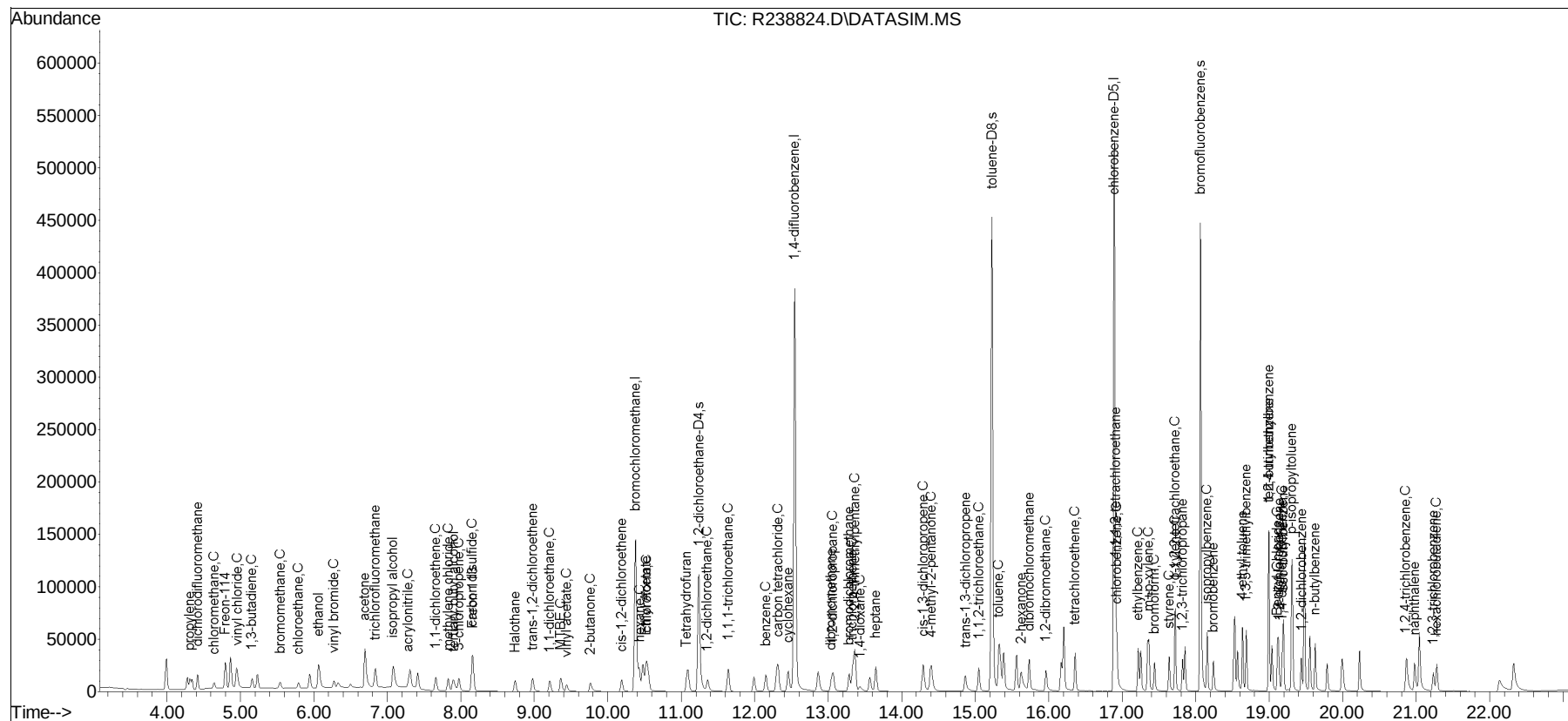
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	39514M4	0.557	ppbV	
71) 1,3,5-trimethylbenzene	18.69	105	34906	0.593	ppbV	100
72) tert-butylbenzene	18.99	119	34298	0.584	ppbV	97
73) 1,2,4-trimethylbenzene	18.99	105	33018	0.567	ppbV	95
74) Benzyl Chloride	19.11	91	27365	0.501	ppbV	98
75) 1,3-dichlorobenzene	19.13	146	24507	0.545	ppbV	98
76) 1,4-dichlorobenzene	19.18	146	26246	0.565	ppbV	97
77) sec-butylbenzene	19.19	105	48074	0.565	ppbV	99
78) p-isopropyltoluene	19.31	119	41547	0.567	ppbV	98
79) 1,2-dichlorobenzene	19.44	146	24331	0.555	ppbV	99
80) n-butylbenzene	19.63	91	39595	0.545	ppbV	97
81) 1,2,4-trichlorobenzene	20.86	180	20679	0.499	ppbV	93
82) naphthalene	20.98	128	42898	0.482	ppbV	98
83) 1,2,3-trichlorobenzene	21.24	180	19697	0.490	ppbV	99
84) hexachlorobutadiene	21.28	225	17322	0.517	ppbV #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238824.D
Acq On    : 8 Feb 2016 12:13 am
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD0.5
Misc      : WG863731
ALS Vial  : 6 Sample Multiplier: 1
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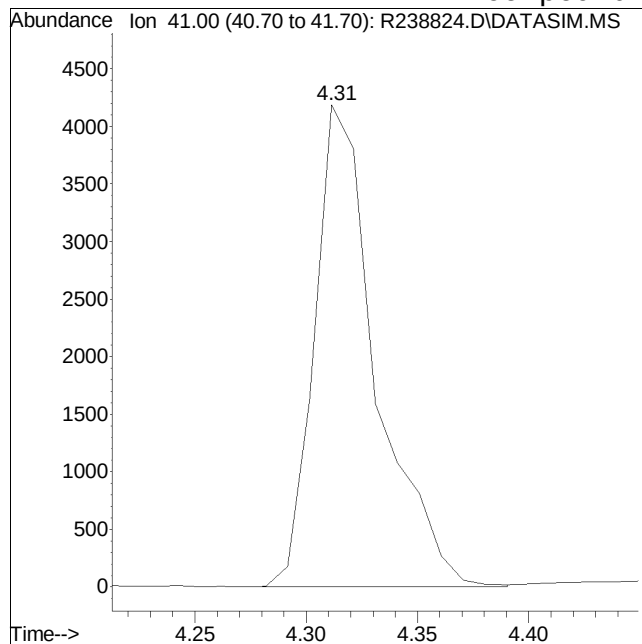
Quant Time: Feb 09 10:16:58 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

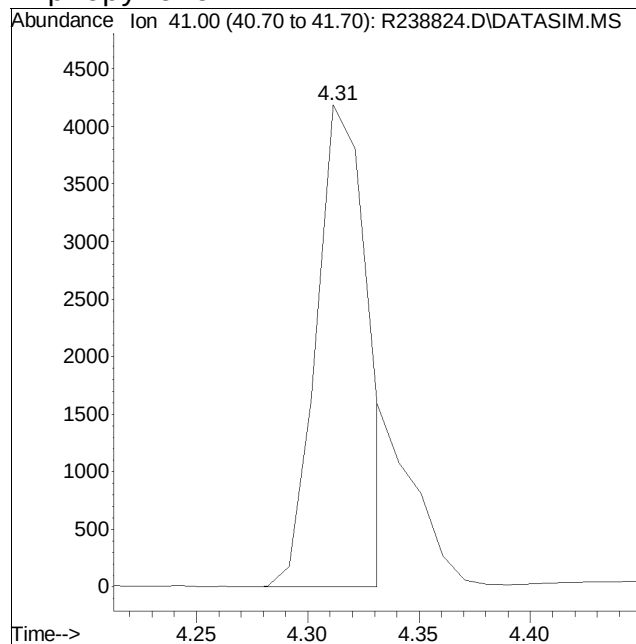
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Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 8080

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

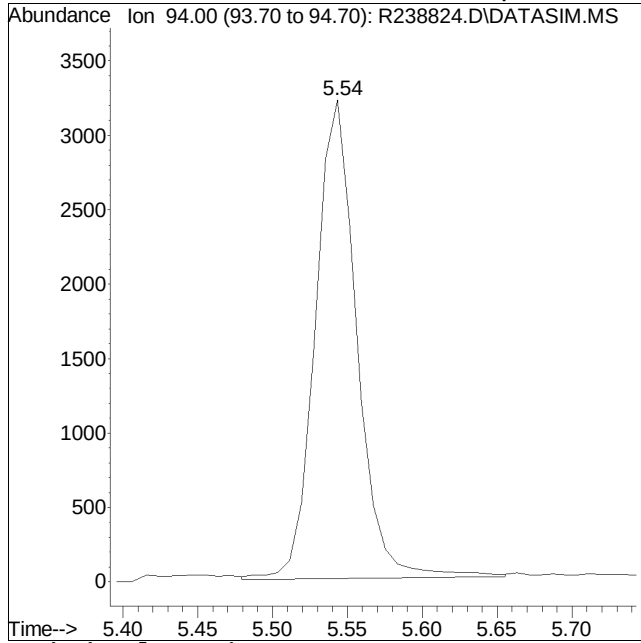


Manual Peak Response = 6738 M6

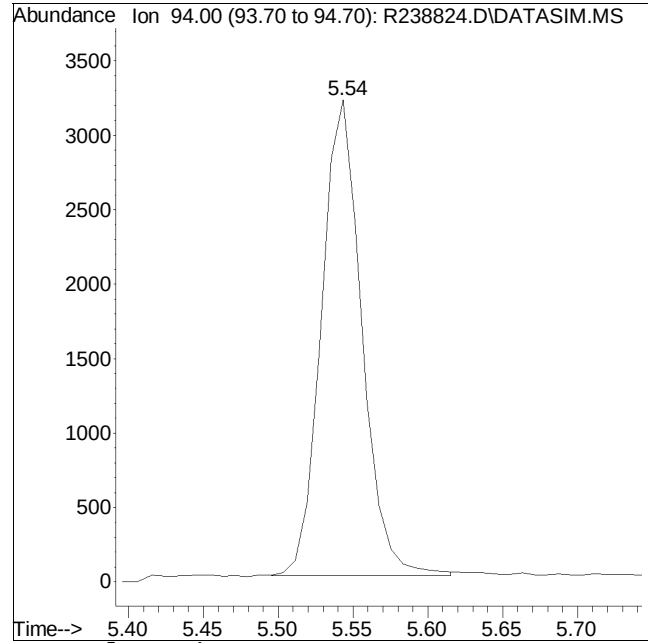
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #8: bromomethane



Original Peak Response = 6219



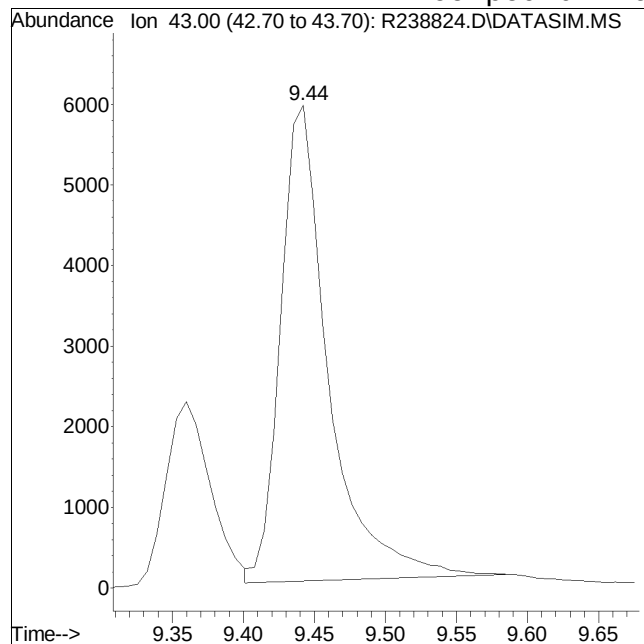
Manual Peak Response = 5992 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

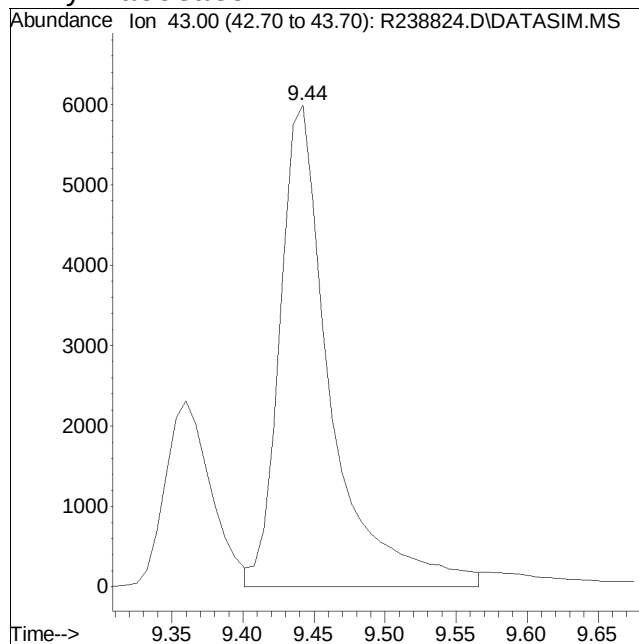
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Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #26: vinyl acetate



Original Peak Response = 13863

M4 = Poor automated baseline construction.

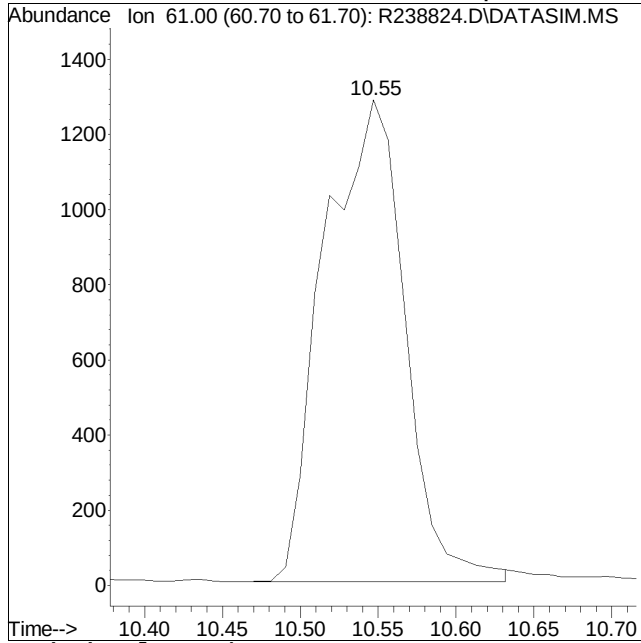


Manual Peak Response = 14940 M4

Manual Integration/Negative Proof Report

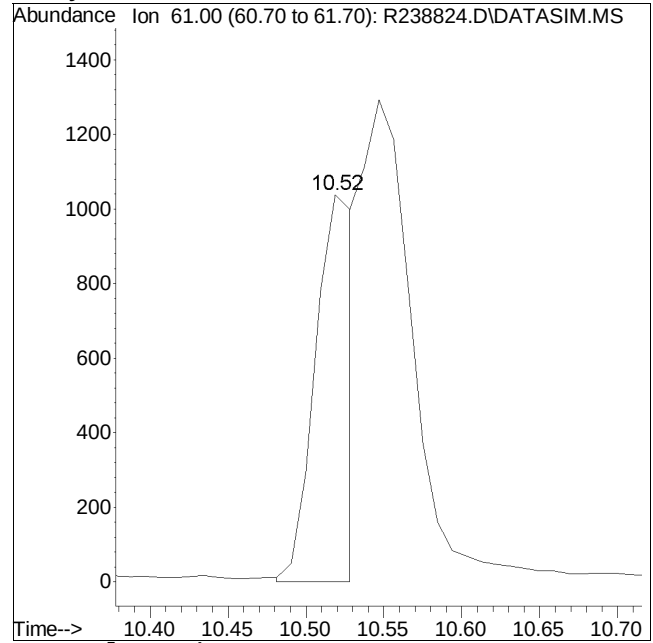
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #29: Ethyl Acetate



Original Peak Response = 4636

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

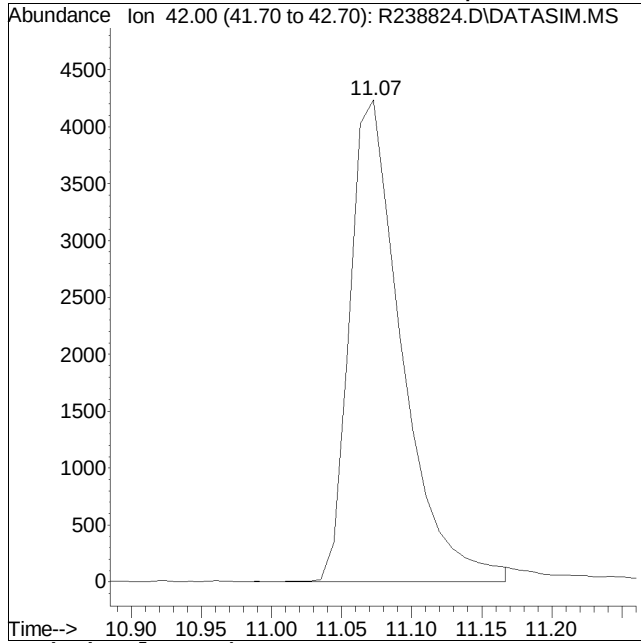


Manual Peak Response = 1780 M6

Manual Integration/Negative Proof Report

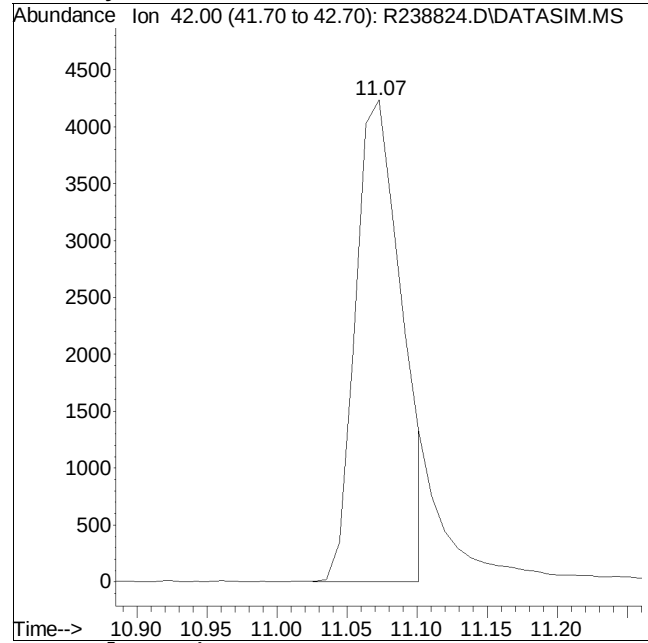
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Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 10993

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

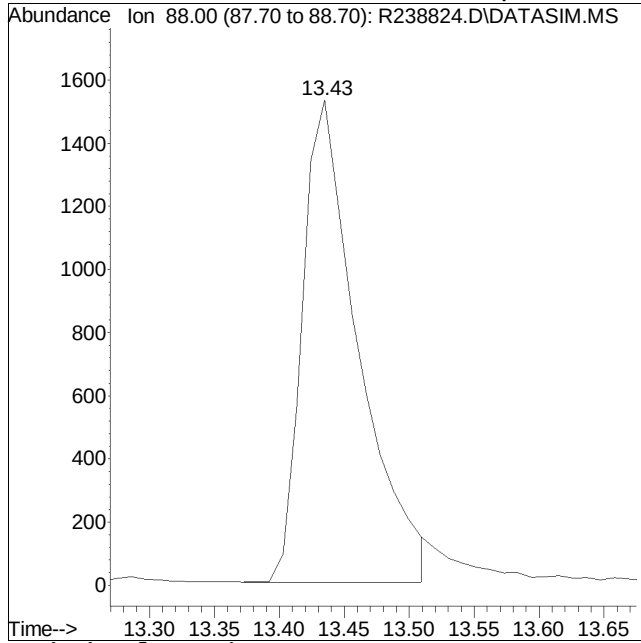


Manual Peak Response = 9767 M6

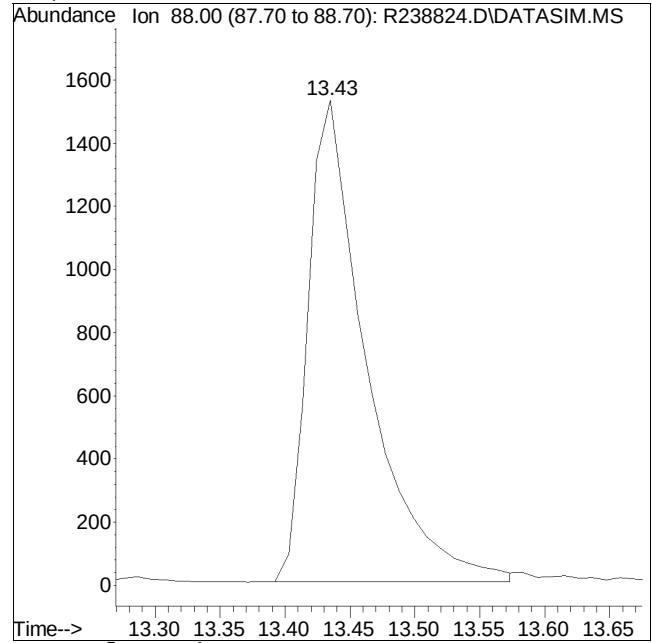
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 4587



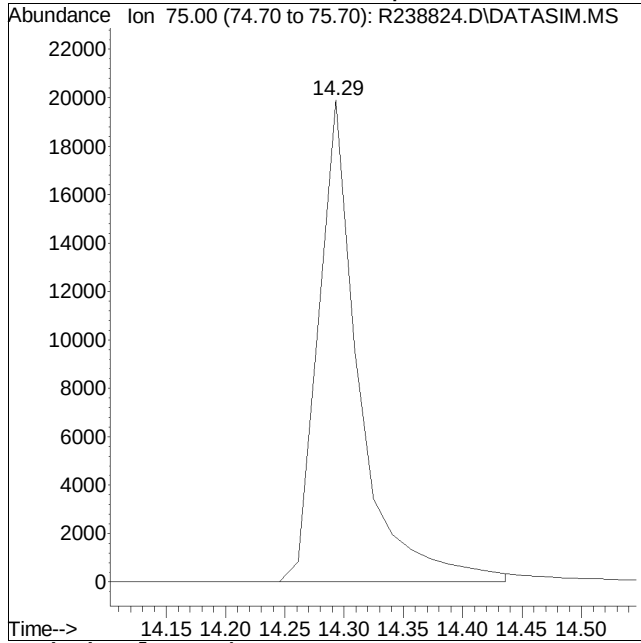
Manual Peak Response = 4802 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

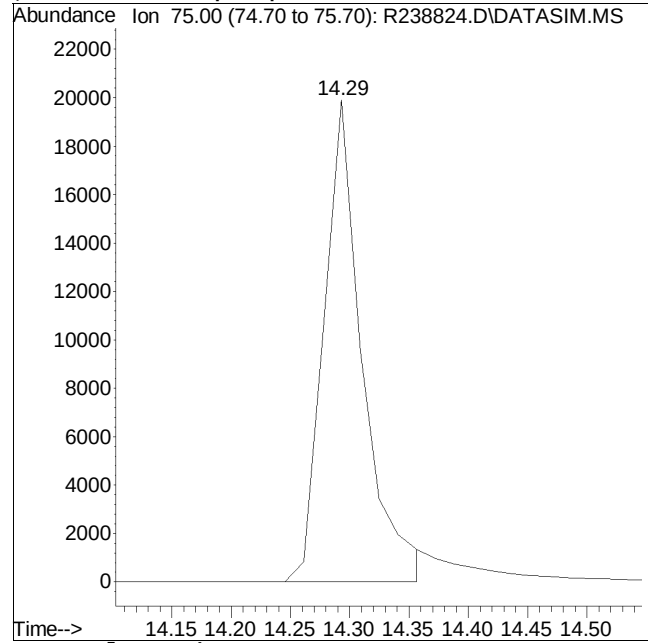
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Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 47860

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

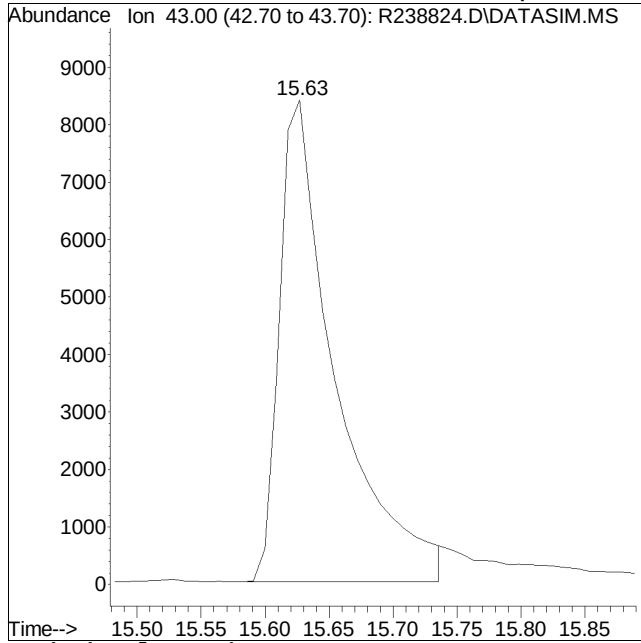


Manual Peak Response = 44899 M6

Manual Integration/Negative Proof Report

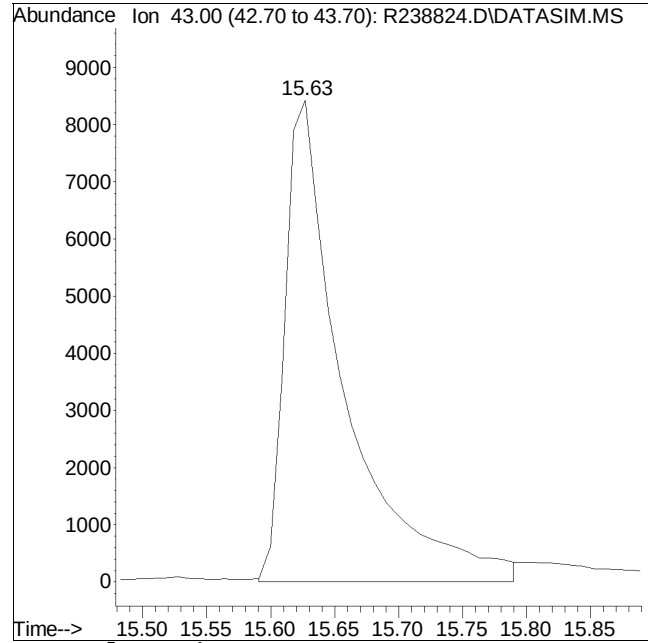
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #54: 2-hexanone



Original Peak Response = 25534

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

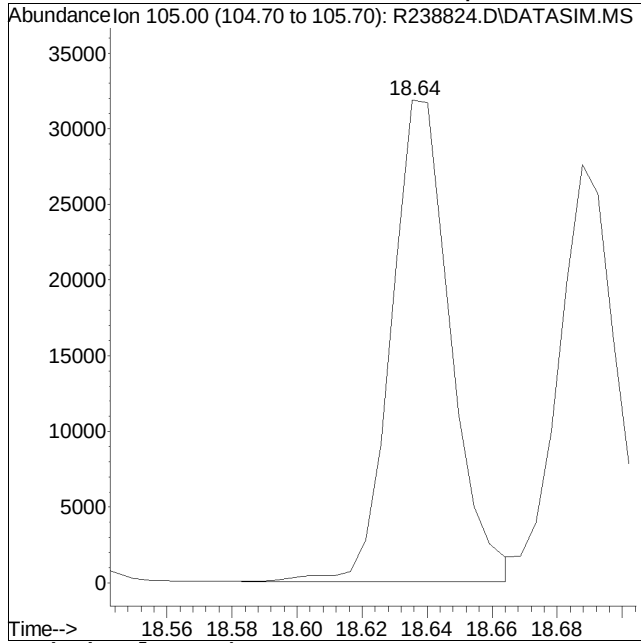


Manual Peak Response = 27389 M1

Manual Integration/Negative Proof Report

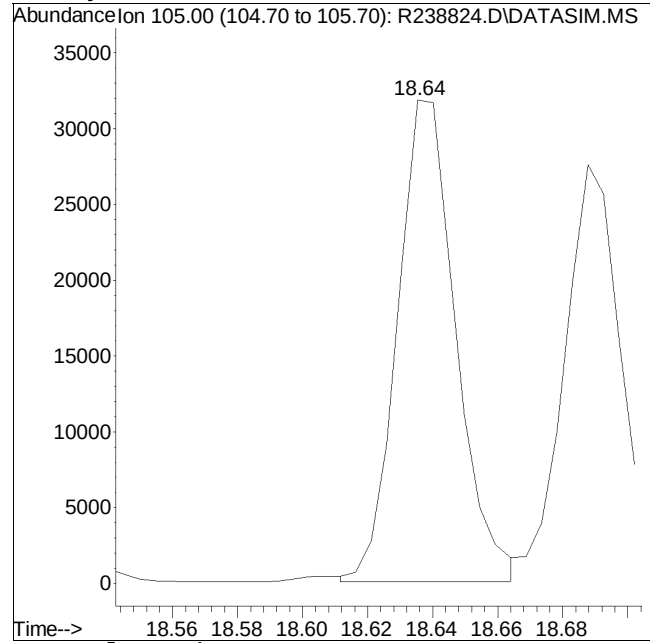
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Data File : R238824.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:13 am Instrument : Air Piano 2
Sample : IT015-SIMSTD0.5 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 40139

M4 = Poor automated baseline construction.



Manual Peak Response = 39514 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD1.0
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:22:07 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	183494	10.000	ppbV	0.00
Standard Area = 188893			Recovery =		97.14%	
33) 1,4-difluorobenzene	12.54	114	424612	10.000	ppbV	0.00
Standard Area = 444195			Recovery =		95.59%	
51) chlorobenzene-D5	16.89	54	98217	10.000	ppbV	0.00
Standard Area = 100631			Recovery =		97.60%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.23	65	117459	10.556	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		105.56%	
53) toluene-D8	15.22	98	443768	10.259	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		102.59%	
67) bromofluorobenzene	18.06	95	240341	10.130	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		101.30%	
Target Compounds						
					Qvalue	
2) propylene	4.31	41	13016M6	1.205	ppbV	
3) dichlorodifluoromethane	4.42	85	25720	1.025	ppbV	99
4) chloromethane	4.64	50	14100	1.205	ppbV	100
5) Freon-114	4.79	85	36726	1.174	ppbV	99
6) vinyl chloride	4.96	62	14034	1.187	ppbV	100
7) 1,3-butadiene	5.16	54	10422	1.190	ppbV	91
8) bromomethane	5.54	94	12067	1.180	ppbV	100
9) chloroethane	5.79	64	6507	1.172	ppbV	96
10) ethanol	6.05	31	57027	5.808	ppbV	99
11) vinyl bromide	6.27	106	12312	1.172	ppbV	100
12) acetone	6.67	43	114421	5.868	ppbV	98
13) trichlorofluoromethane	6.84	101	34991	1.192	ppbV	99
14) isopropyl alcohol	7.05	45	63568	2.961	ppbV	100
15) acrylonitrile	7.28	53	10722	1.179	ppbV	99
16) 1,1-dichloroethene	7.65	61	25989	1.201	ppbV	100
17) tertiary butyl alcohol	7.87	59	31136	1.196	ppbV	99
18) methylene chloride	7.82	49	20788	1.212	ppbV	99
19) 3-chloropropene	7.97	41	21808	1.186	ppbV	99
20) carbon disulfide	8.15	76	42188	1.176	ppbV	98
21) Freon 113	8.16	101	30209	1.192	ppbV	100
22) Halothane	8.74	117	23616	1.190	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	24528	1.174	ppbV	100
24) 1,1-dichloroethane	9.21	63	28337	1.183	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD1.0
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:22:07 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.34	73	39181	1.189	ppbV	99
26) vinyl acetate	9.43	43	30396	1.116	ppbV	100
27) 2-butanone	9.74	43	35794	1.160	ppbV	99
28) cis-1,2-dichloroethene	10.19	61	22007	1.177	ppbV	99
29) Ethyl Acetate	10.50	61	4552M6	1.181	ppbV	
30) chloroform	10.53	83	31550	1.188	ppbV	99
31) Tetrahydrofuran	11.04	42	19636M6	1.239	ppbV	
32) 1,2-dichloroethane	11.35	62	22336	1.179	ppbV	99
34) hexane	10.42	57	22648	1.200	ppbV #	64
36) 1,1,1-trichloroethane	11.64	97	31636	1.186	ppbV	100
37) benzene	12.15	78	43074	1.202	ppbV	99
38) carbon tetrachloride	12.32	117	34278	1.179	ppbV	100
39) cyclohexane	12.46	56	24305	1.187	ppbV	99
40) dibromomethane	13.04	93	18750	1.183	ppbV	100
41) 1,2-dichloropropane	13.06	63	17287	1.175	ppbV	99
42) bromodichloromethane	13.29	83	35033M6	1.164	ppbV	
43) 1,4-dioxane	13.40	88	9374M4	1.130	ppbV	
44) trichloroethene	13.33	130	20848	1.191	ppbV	99
45) 2,2,4-trimethylpentane	13.36	57	76090	1.183	ppbV	99
46) heptane	13.65	43	31272	1.176	ppbV	99
47) cis-1,3-dichloropropene	14.29	75	88196M6	1.125	ppbV	
48) 4-methyl-2-pentanone	14.37	43	44747	1.157	ppbV #	92
49) trans-1,3-dichloropropene	14.86	75	31180	1.147	ppbV	95
50) 1,1,2-trichloroethane	15.05	97	23782	1.188	ppbV	98
52) toluene	15.32	91	74478	1.159	ppbV	100
54) 2-hexanone	15.60	43	53971	1.056	ppbV #	95
55) dibromochloromethane	15.74	129	44807	1.138	ppbV	99
56) 1,2-dibromoethane	15.96	107	37650	1.134	ppbV	100
57) tetrachloroethene	16.36	166	32844	1.165	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.91	131	25231	1.160	ppbV	99
59) chlorobenzene	16.93	112	45489	1.170	ppbV	99
60) ethylbenzene	17.22	91	68713	1.157	ppbV	100
61) m+p-xylene	17.36	91	108269	2.335	ppbV	99
62) bromoform	17.44	173	33951	1.128	ppbV	100
63) styrene	17.64	104	40287	1.126	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.72	83	42266	1.138	ppbV	99
65) o-xylene	17.72	91	55780	1.164	ppbV	100
66) 1,2,3-trichloropropane	17.82	75	33771	1.134	ppbV	99
68) isopropylbenzene	18.16	105	74140	1.162	ppbV	99
69) bromobenzene	18.24	77	41243	1.145	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238825.D
 Acq On : 8 Feb 2016 12:48 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD1.0
 Misc : WG863731
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 09 10:22:07 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

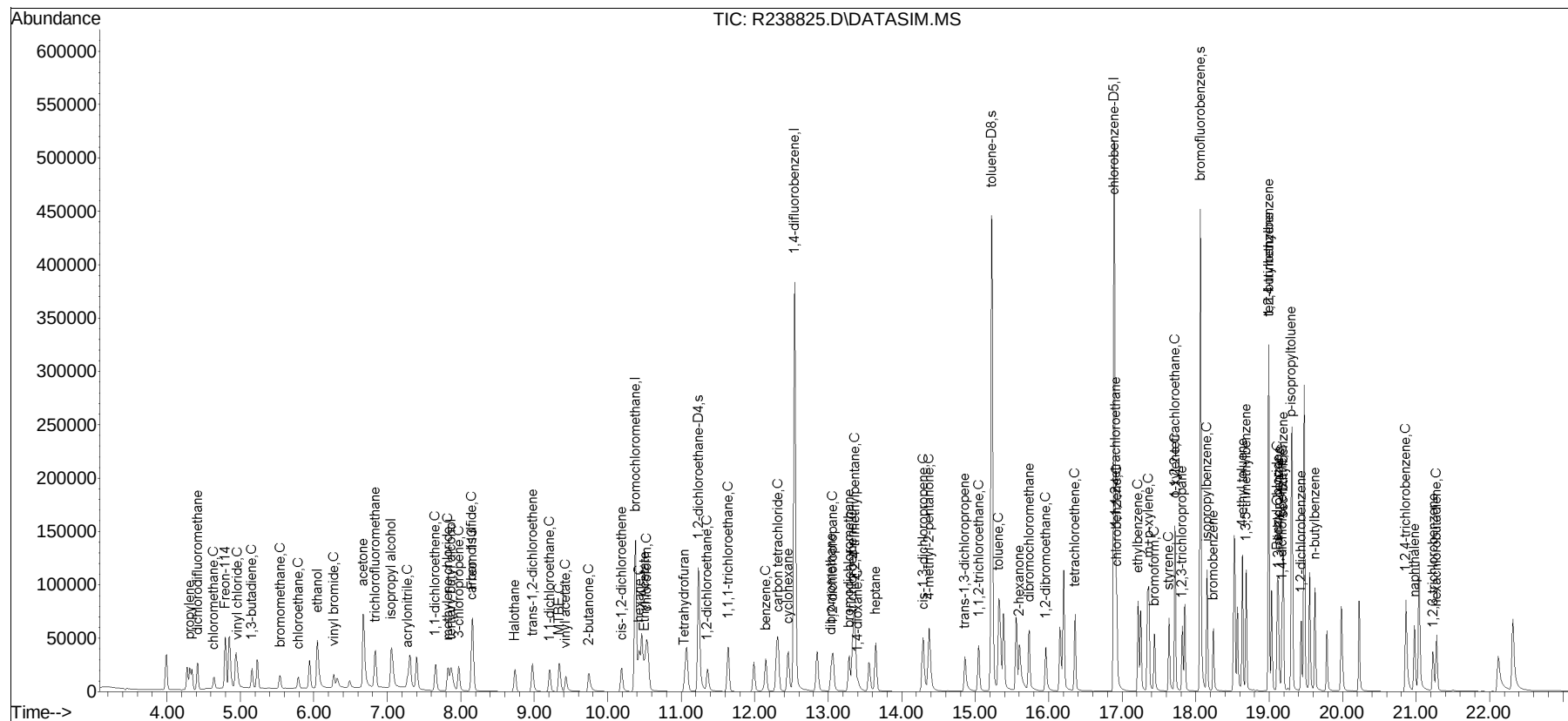
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	79784M4	1.142	ppbV	
71) 1,3,5-trimethylbenzene	18.69	105	67296	1.160	ppbV	98
72) tert-butylbenzene	18.99	119	67233	1.162	ppbV	99
73) 1,2,4-trimethylbenzene	18.99	105	65418	1.139	ppbV	99
74) Benzyl Chloride	19.11	91	56347	1.047	ppbV	97
75) 1,3-dichlorobenzene	19.13	146	49168	1.109	ppbV	99
76) 1,4-dichlorobenzene	19.17	146	52524	1.148	ppbV	100
77) sec-butylbenzene	19.19	105	94929	1.132	ppbV	98
78) p-isopropyltoluene	19.30	119	82046	1.137	ppbV	98
79) 1,2-dichlorobenzene	19.44	146	48361	1.120	ppbV	98
80) n-butylbenzene	19.62	91	79556	1.111	ppbV	97
81) 1,2,4-trichlorobenzene	20.86	180	41742	1.023	ppbV #	86
82) naphthalene	20.98	128	87467	0.998	ppbV	97
83) 1,2,3-trichlorobenzene	21.24	180	39735	1.003	ppbV	94
84) hexachlorobutadiene	21.28	225	34136	1.035	ppbV	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238825.D
Acq On    : 8 Feb 2016 12:48 am
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD1.0
Misc      : WG863731
ALS Vial  : 6 Sample Multiplier: 1
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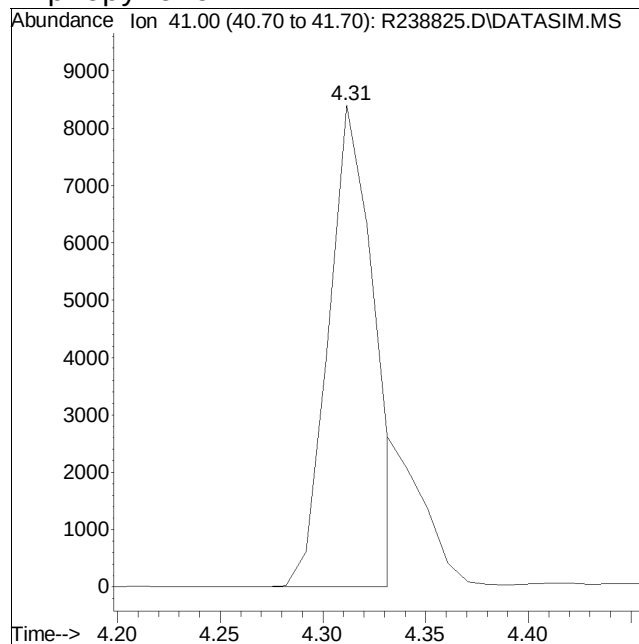
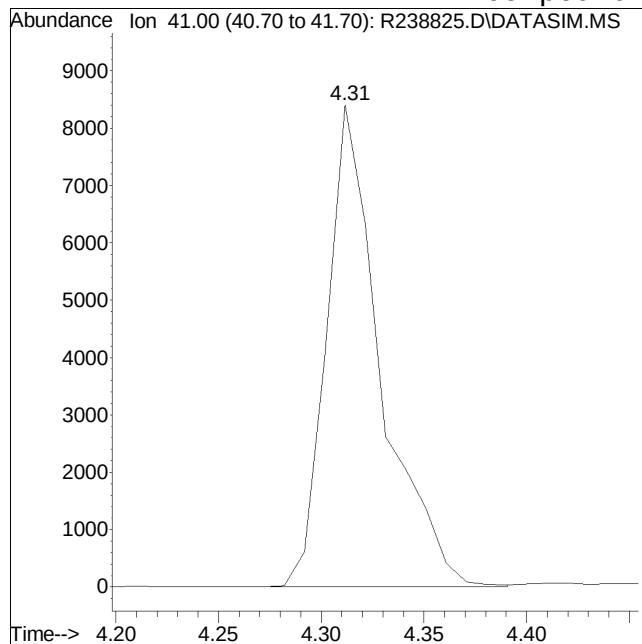
Quant Time: Feb 09 10:22:07 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene

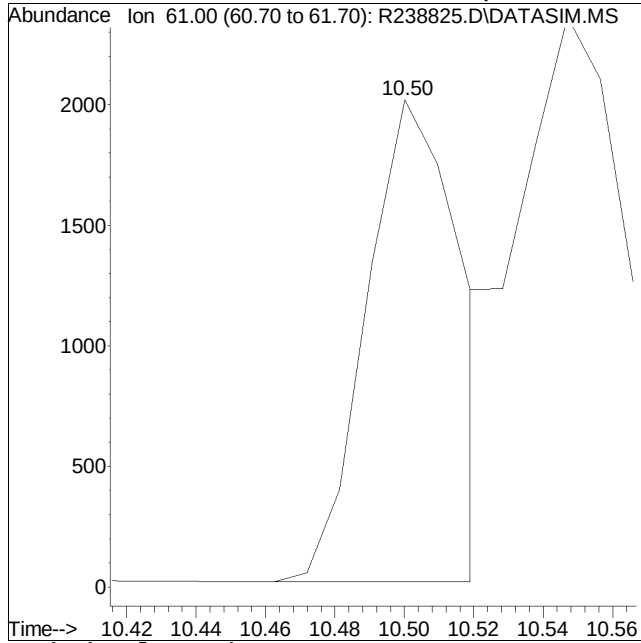


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

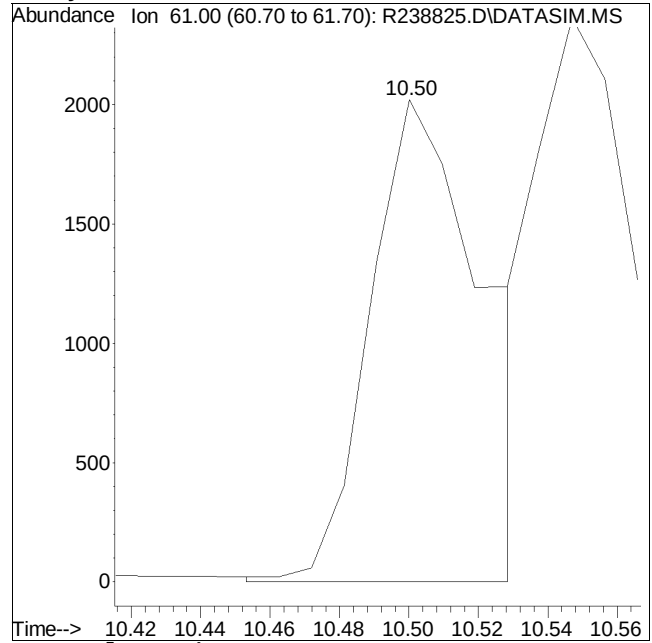
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #29: Ethyl Acetate



Original Peak Response = 3772

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

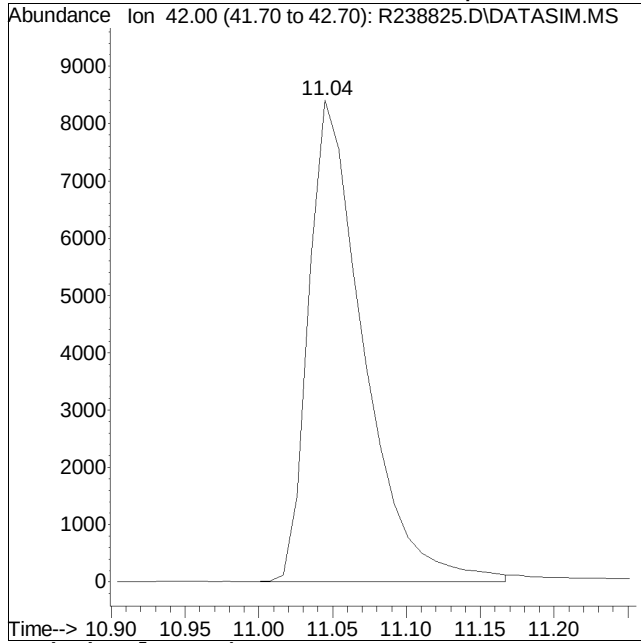


Manual Peak Response = 4552 M6

Manual Integration/Negative Proof Report

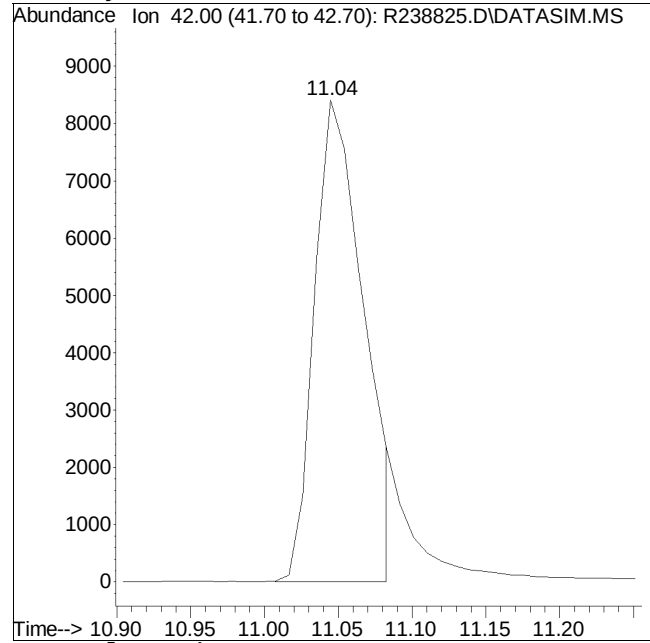
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Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 21883

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

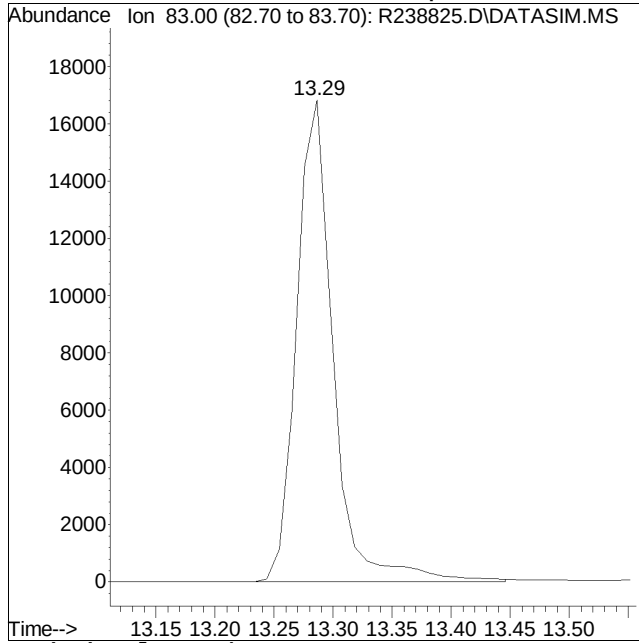


Manual Peak Response = 19636 M6

Manual Integration/Negative Proof Report

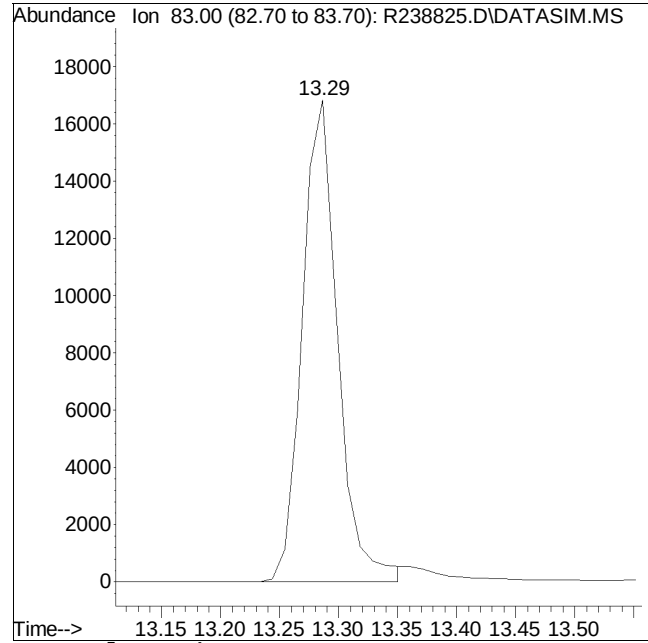
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Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #42: bromodichloromethane



Original Peak Response = 36378

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

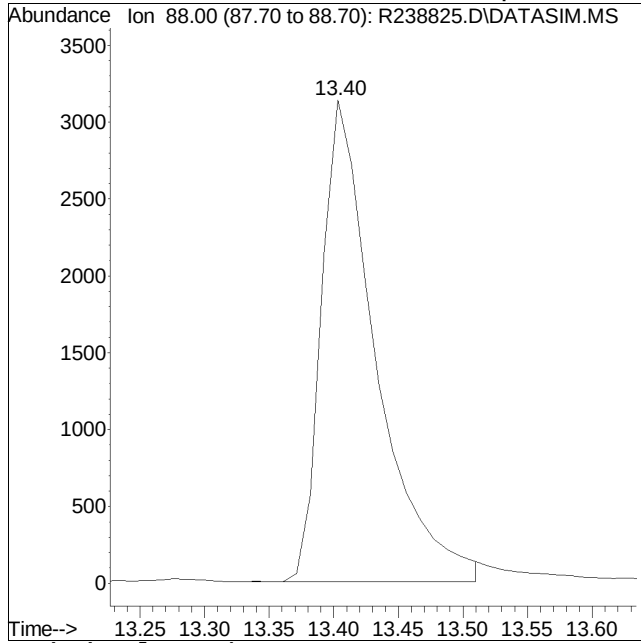


Manual Peak Response = 35033 M6

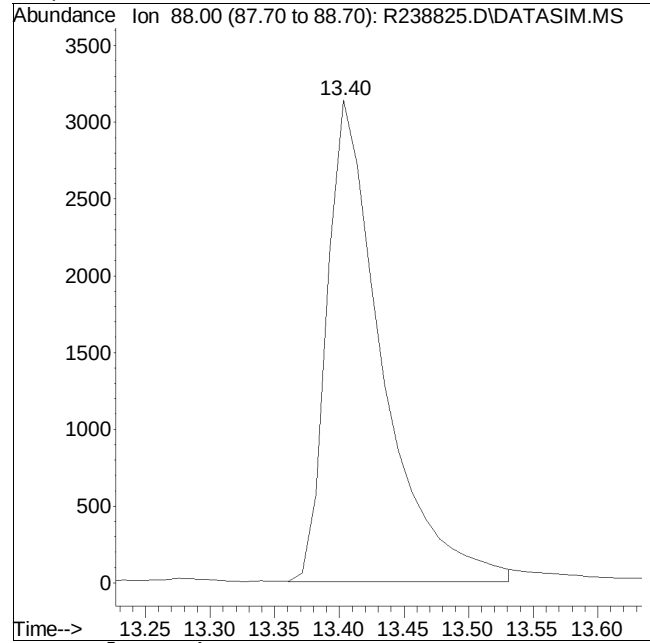
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #43: 1,4-dioxane



Original Peak Response = 9232



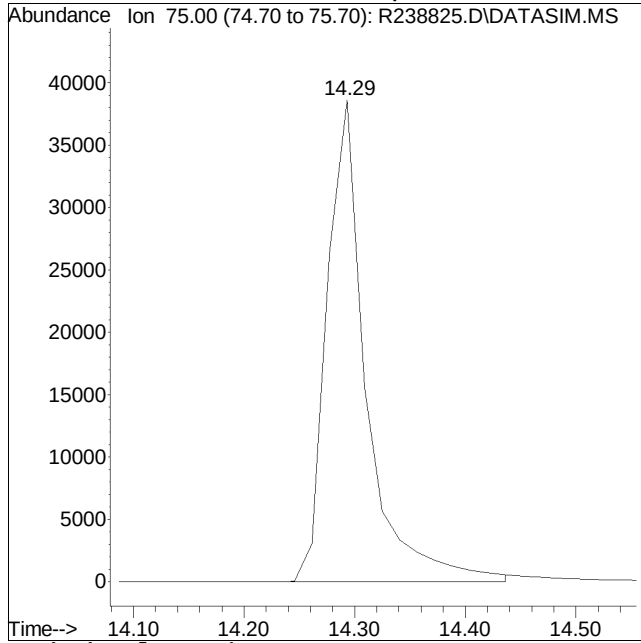
Manual Peak Response = 9374 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

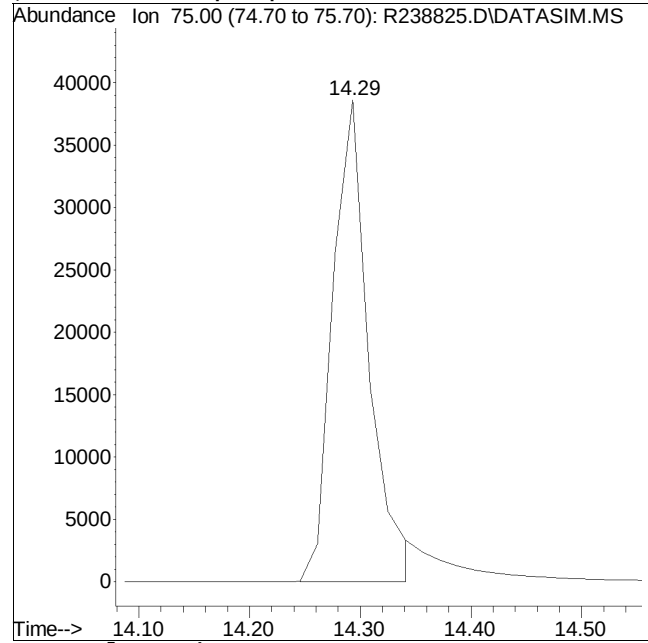
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Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 95529

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

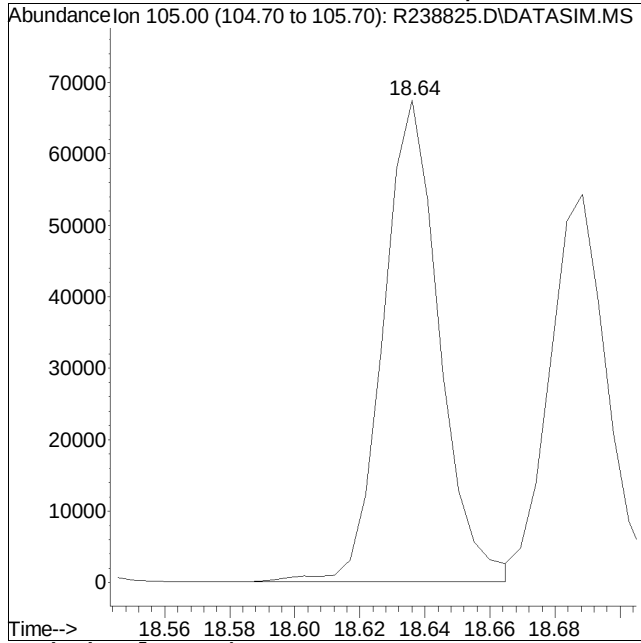


Manual Peak Response = 88196 M6

Manual Integration/Negative Proof Report

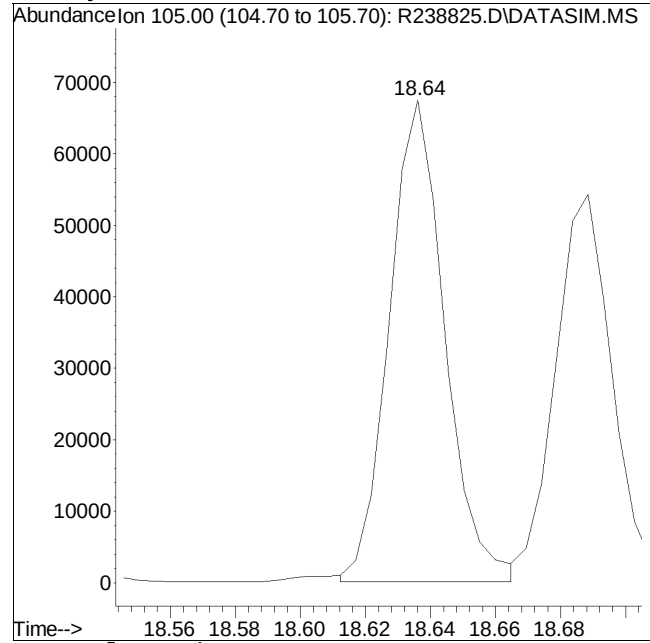
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238825.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 12:48 am Instrument : Air Piano 2
Sample : IT015-SIMSTD1.0 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 80883

M4 = Poor automated baseline construction.



Manual Peak Response = 79784 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:31:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 10:00:44 2015
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	188893	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	100.00%		
33) 1,4-difluorobenzene	12.54	114	444195	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	100.00%		
51) chlorobenzene-D5	16.89	54	100631	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.23	65	116409	10.041	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.41%		
53) toluene-D8	15.22	98	443176	8.531	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.31%		
67) bromofluorobenzene	18.06	95	243094	8.944	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.44%		
Target Compounds						
					Qvalue	
2) propylene	4.31	41	55590M6	4.655	ppbV	
3) dichlorodifluoromethane	4.42	85	129117	4.358	ppbV	98
4) chloromethane	4.64	50	60245	4.064	ppbV	98
5) Freon-114	4.79	85	161064	3.923	ppbV	94
6) vinyl chloride	4.96	62	60848	3.915	ppbV	99
7) 1,3-butadiene	5.16	54	45084	4.125	ppbV #	78
8) bromomethane	5.54	94	52638	3.715	ppbV	97
9) chloroethane	5.79	64	28572	3.718	ppbV	100
10) ethanol	6.02	31	252691	22.564	ppbV	86
11) vinyl bromide	6.27	106	54056	3.530	ppbV	99
12) acetone	6.64	43	501816	22.998	ppbV	93
13) trichlorofluoromethane	6.84	101	151154	3.898	ppbV	99
14) isopropyl alcohol	7.01	45	276245	11.725	ppbV	99
15) acrylonitrile	7.25	53	46794	4.270	ppbV	98
16) 1,1-dichloroethene	7.65	61	111403	4.142	ppbV	95
17) tertiary butyl alcohol	7.81	59	133995	3.978	ppbV	96
18) methylene chloride	7.82	49	88277	4.428	ppbV	87
19) 3-chloropropene	7.97	41	94650	4.347	ppbV	95
20) carbon disulfide	8.15	76	184675	4.076	ppbV	95
21) Freon 113	8.16	101	130493	3.943	ppbV	95
22) Halothane	8.74	117	102142	3.923	ppbV	98
23) trans-1,2-dichloroethene	8.98	61	107492	4.289	ppbV	99
24) 1,1-dichloroethane	9.21	63	123280	4.284	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:31:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 10:00:44 2015
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.31	73	169571	4.426	ppbV	98
26) vinyl acetate	9.41	43	140150	5.491	ppbV	97
27) 2-butanone	9.71	43	158808	4.822	ppbV	94
28) cis-1,2-dichloroethene	10.19	61	96263	4.273	ppbV	92
29) Ethyl Acetate	10.47	61	19838	4.053	ppbV	69
30) chloroform	10.53	83	136737	4.070	ppbV	98
31) Tetrahydrofuran	11.01	42	81595M6	4.514	ppbV	
32) 1,2-dichloroethane	11.35	62	97532	4.344	ppbV	98
34) hexane	10.42	57	98702	5.059	ppbV	87
36) 1,1,1-trichloroethane	11.64	97	139563	4.814	ppbV	97
37) benzene	12.15	78	187370	4.545	ppbV	96
38) carbon tetrachloride	12.32	117	152070	5.300	ppbV	98
39) cyclohexane	12.46	56	107098	5.168	ppbV	92
40) dibromomethane	13.04	93	82885	4.331	ppbV	95
41) 1,2-dichloropropane	13.06	63	76987	4.891	ppbV	96
42) bromodichloromethane	13.29	83	157432M4	5.048	ppbV	
43) 1,4-dioxane	13.35	88	43409	4.831	ppbV	95
44) trichloroethene	13.33	130	91541	4.519	ppbV	98
45) 2,2,4-trimethylpentane	13.36	57	336338	5.293	ppbV	95
46) heptane	13.65	43	139085	5.887	ppbV	93
47) cis-1,3-dichloropropene	14.29	75	410070M2	4.853	ppbV	
48) 4-methyl-2-pentanone	14.34	43	202239	5.923	ppbV	88
49) trans-1,3-dichloropropene	14.86	75	142201	5.118	ppbV	94
50) 1,1,2-trichloroethane	15.05	97	104665	4.756	ppbV	97
52) toluene	15.32	91	329134	4.258	ppbV	98
54) 2-hexanone	15.57	43	261873	5.414	ppbV	94
55) dibromochloromethane	15.74	129	201720	4.772	ppbV	99
56) 1,2-dibromoethane	15.96	107	170072	4.215	ppbV	99
57) tetrachloroethene	16.36	166	144427	4.087	ppbV	96
58) 1,1,1,2-tetrachloroethane	16.91	131	111384	4.401	ppbV	99
59) chlorobenzene	16.93	112	199138	4.217	ppbV	94
60) ethylbenzene	17.22	91	304349	4.328	ppbV	97
61) m+p-xylene	17.36	91	475141	8.989	ppbV	97
62) bromoform	17.44	173	154152	4.797	ppbV	99
63) styrene	17.64	104	183302	4.309	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.72	83	190219	4.460	ppbV	98
65) o-xylene	17.72	91	245480	4.490	ppbV	97
66) 1,2,3-trichloropropane	17.82	75	152598	4.705	ppbV	94
68) isopropylbenzene	18.15	105	326900	3.826	ppbV	99
69) bromobenzene	18.24	77	184462	4.716	ppbV	88

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238826.D
 Acq On : 8 Feb 2016 1:22 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 09:31:39 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Nov 18 10:00:44 2015
 Response via : Initial Calibration

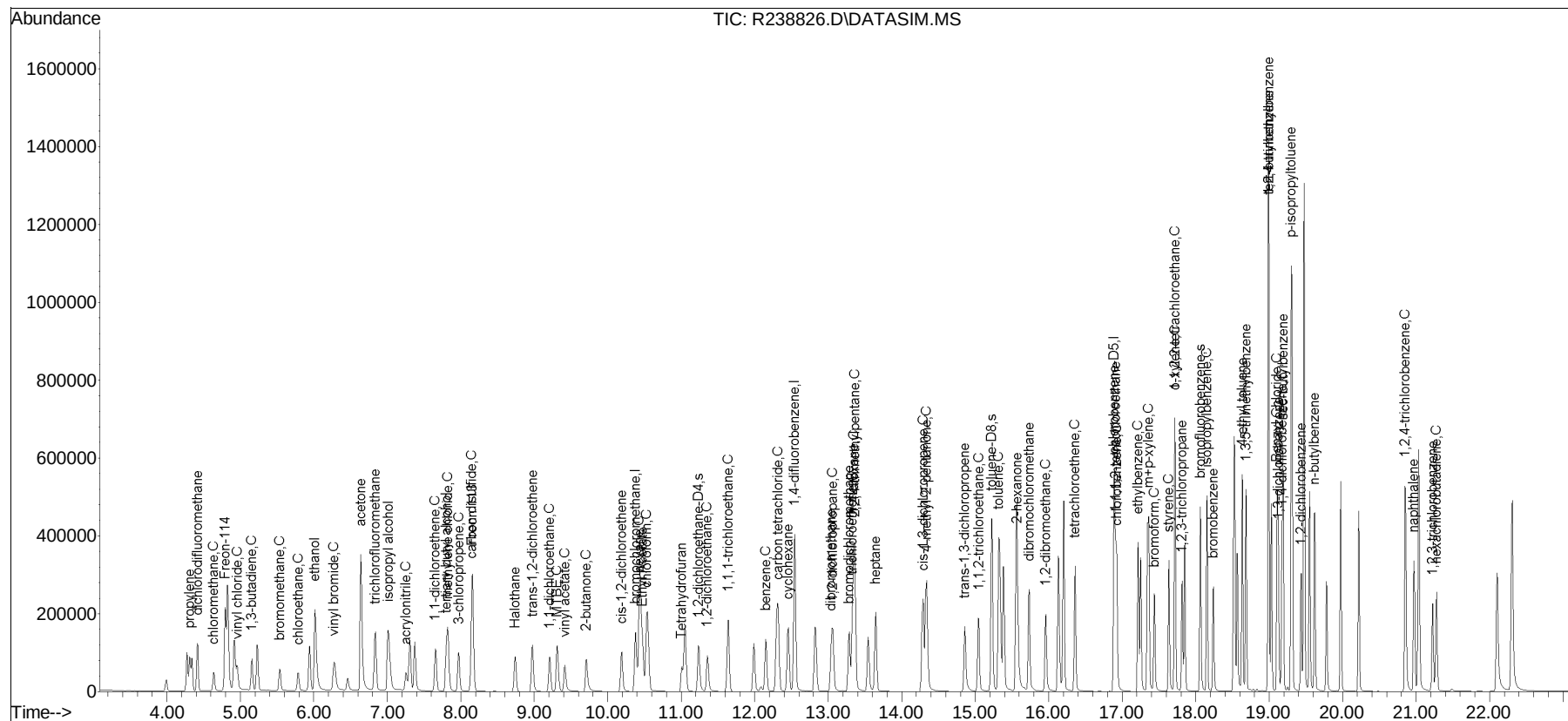
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	358038M4	4.525	ppbV	
71) 1,3,5-trimethylbenzene	18.68	105	297194	4.504	ppbV	97
72) tert-butylbenzene	18.99	119	296509	4.480	ppbV	99
73) 1,2,4-trimethylbenzene	18.99	105	294138	4.752	ppbV	98
74) Benzyl Chloride	19.11	91	275570	4.731	ppbV	90
75) 1,3-dichlorobenzene	19.13	146	227074	4.575	ppbV	98
76) 1,4-dichlorobenzene	19.17	146	234454M2	4.416	ppbV	
77) sec-butylbenzene	19.19	105	429508	4.700	ppbV	97
78) p-isopropyltoluene	19.30	119	369803	4.697	ppbV	99
79) 1,2-dichlorobenzene	19.44	146	221195	4.506	ppbV	98
80) n-butylbenzene	19.62	91	366884	5.079	ppbV	94
81) 1,2,4-trichlorobenzene	20.85	180	209106	5.140	ppbV #	92
82) naphthalene	20.97	128	449117	5.192	ppbV	97
83) 1,2,3-trichlorobenzene	21.22	180	202870	4.883	ppbV #	94
84) hexachlorobutadiene	21.28	225	168977	5.047	ppbV #	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path   : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File  : R238826.D
Acq On     :  8 Feb 2016    1:22 am
Operator   : AIRPIAN02:MR
Sample     : IT015-SIMSTD5.0
Misc       : WG863731
ALS Vial   : 7    Sample Multiplier: 1
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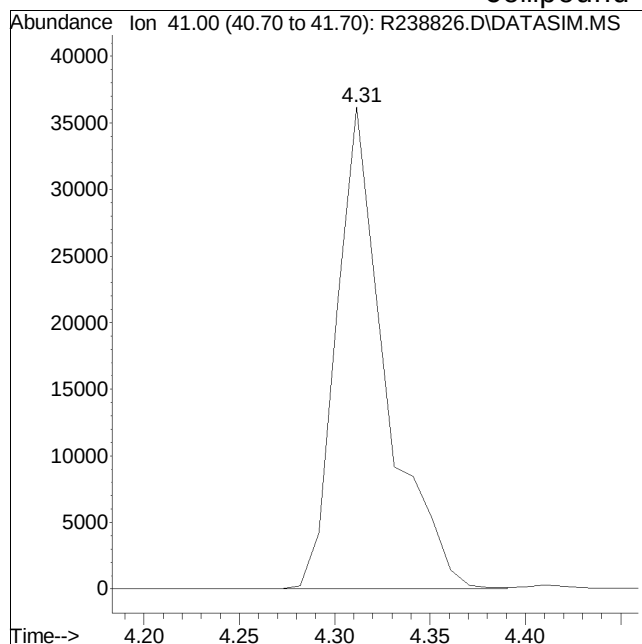
Quant Time: Feb 09 09:31:39 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Nov 18 10:00:44 2015
Response via : Initial Calibration



Manual Integration/Negative Proof Report

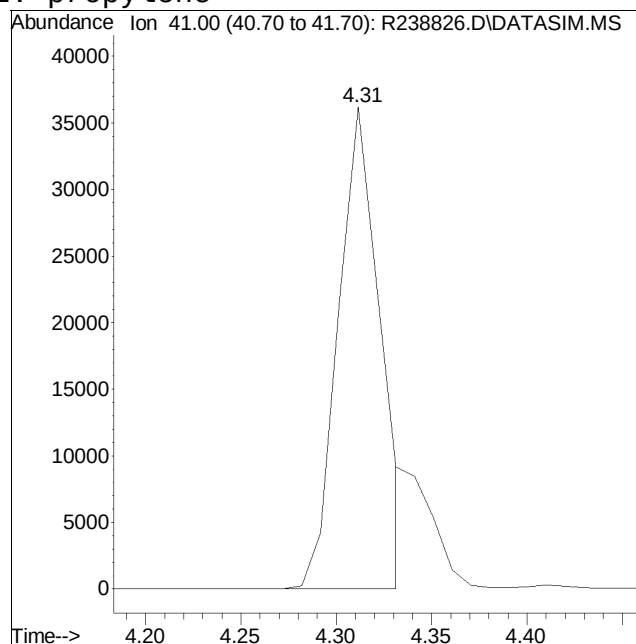
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238826.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/9/2016 9:27 am

Compound #2: propylene



Original Peak Response = 64902

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

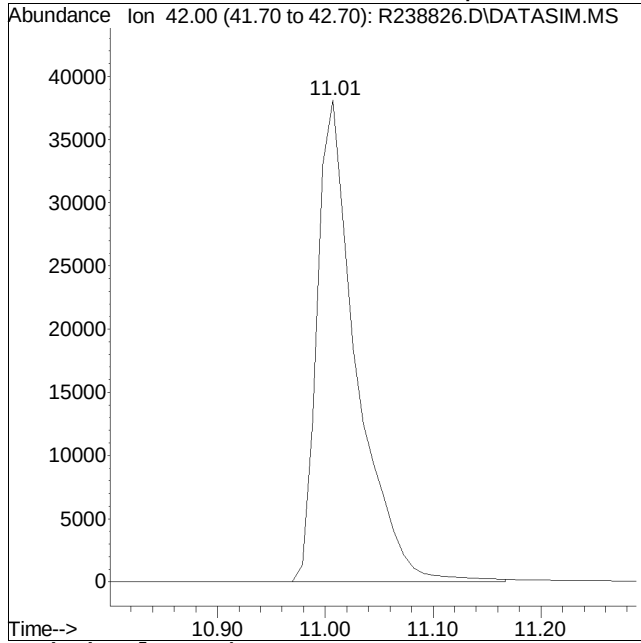


Manual Peak Response = 55590 M6

Manual Integration/Negative Proof Report

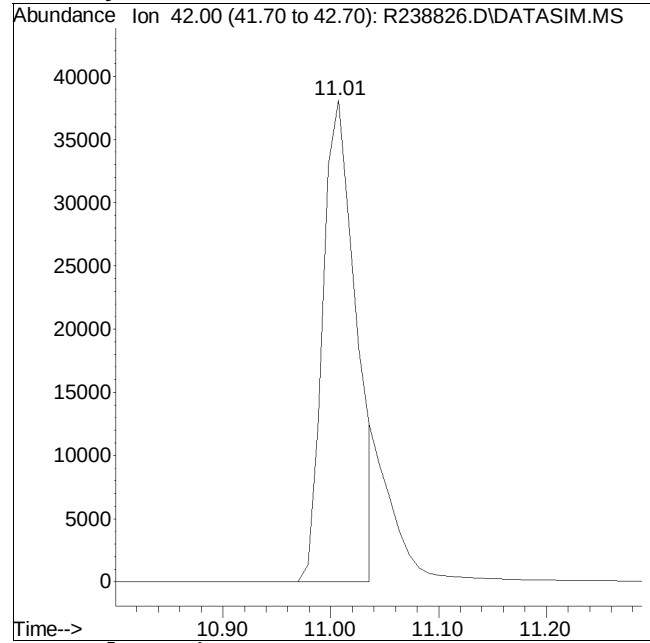
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238826.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/9/2016 9:27 am

Compound #31: Tetrahydrofuran



Original Peak Response = 96721

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

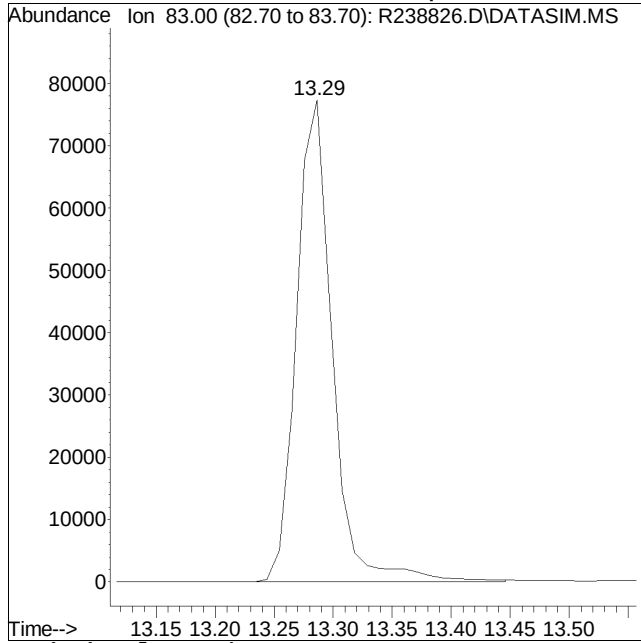


Manual Peak Response = 81595 M6

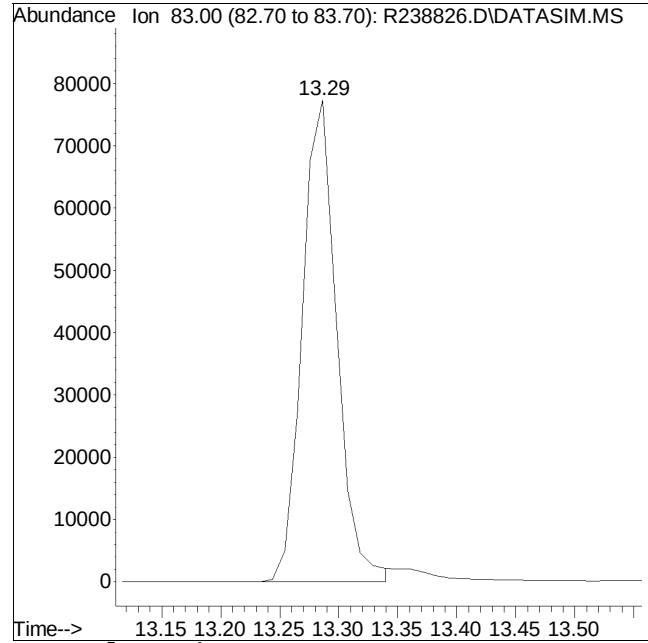
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238826.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/9/2016 9:27 am

Compound #42: bromodichloromethane



Original Peak Response = 163479



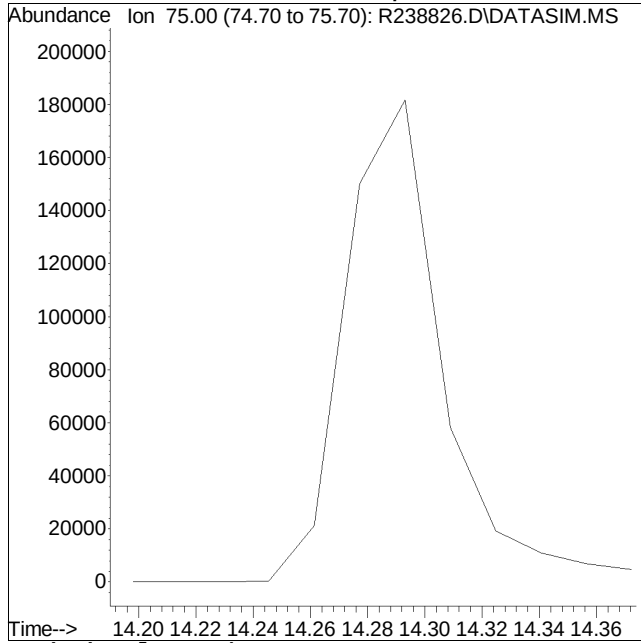
Manual Peak Response = 157432 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

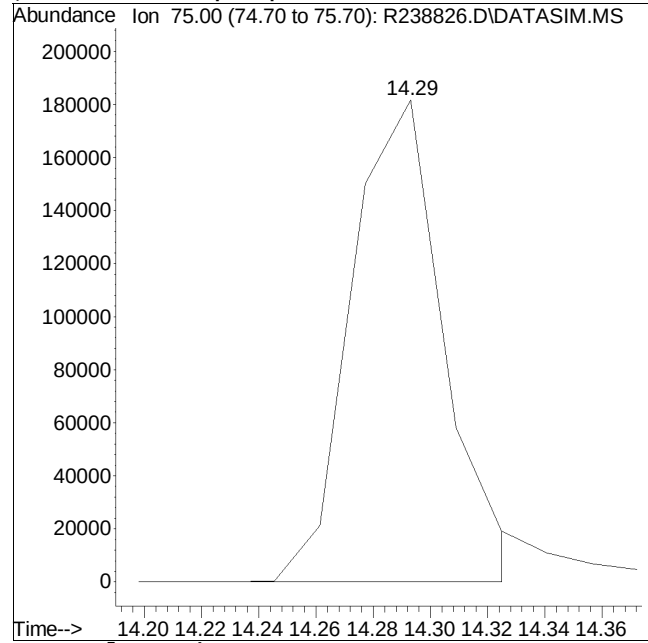
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238826.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/9/2016 9:27 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response =

M2 = Peak not found by automatic integration algorithm.

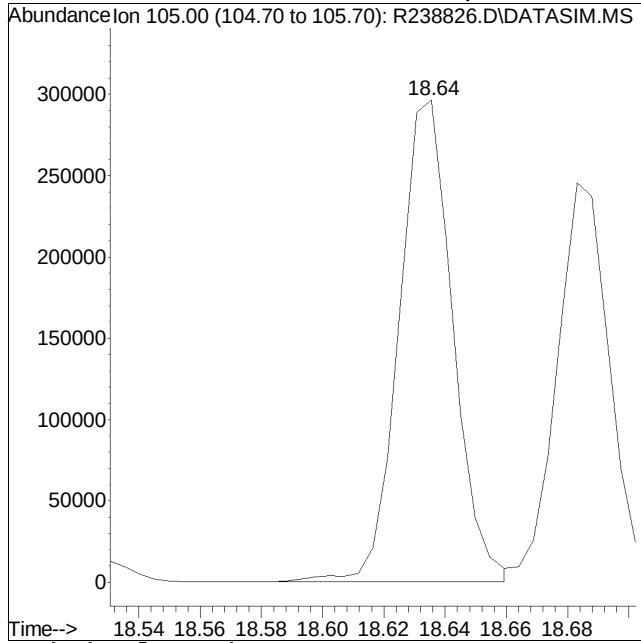


Manual Peak Response = 410070 M2

Manual Integration/Negative Proof Report

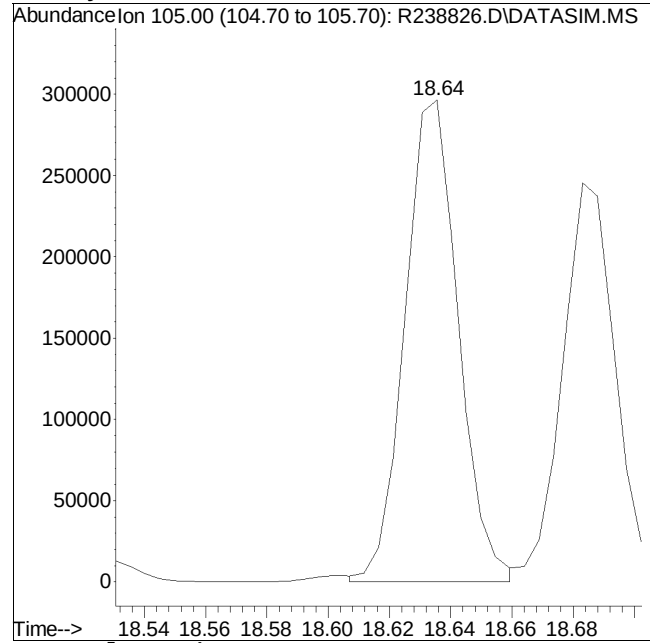
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238826.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:22 am Instrument : Air Piano 2
Sample : IT015-SIMSTD5.0 Quant Date : 2/9/2016 9:27 am

Compound #70: 4-ethyl toluene



Original Peak Response = 361223

M4 = Poor automated baseline construction.

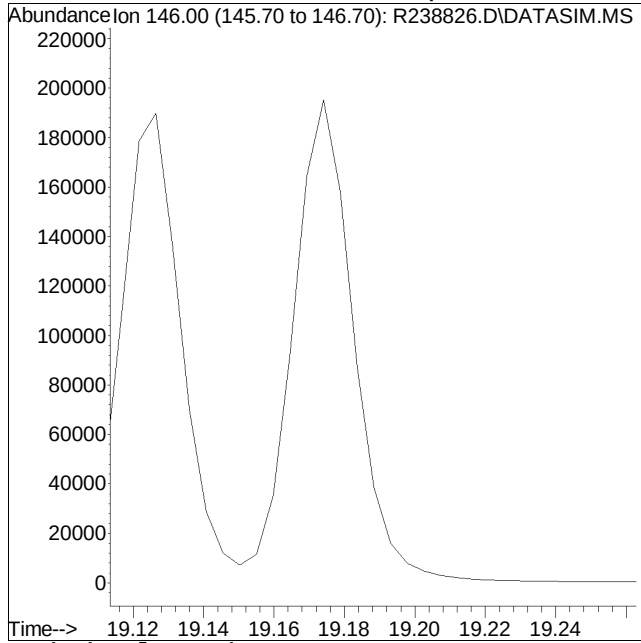


Manual Peak Response = 358038 M4

Manual Integration/Negative Proof Report

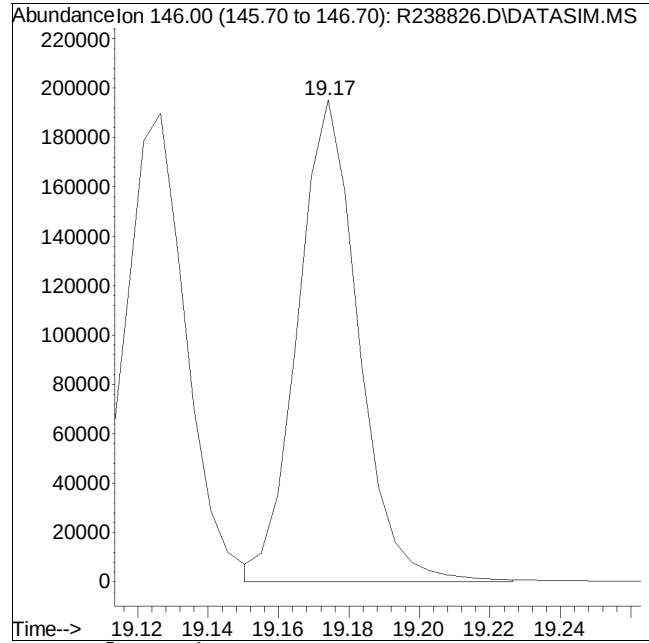
Data Path : O:\Forensics\Data\AIR2\2016Q
Data File : R238826.D
Date Inj'd : 2/8/2016 1:22 am
Sample : IT015-SIMSTD5.0
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:27 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response =

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 234454 M2

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD10.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 10:24:27 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	191097	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	101.17%		
33) 1,4-difluorobenzene	12.54	114	440922	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	99.26%		
51) chlorobenzene-D5	16.89	54	99967	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	99.34%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.23	65	117099	10.134	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.34%		
53) toluene-D8	15.22	98	445047	10.109	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.09%		
67) bromofluorobenzene	18.06	95	242356	10.036	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.36%		
Target Compounds						
					Qvalue	
2) propylene	4.31	41	109607M6	9.745	ppbV	
3) dichlorodifluoromethane	4.42	85	250918	9.605	ppbV	100
4) chloromethane	4.64	50	118073	9.686	ppbV	99
5) Freon-114	4.79	85	313197	9.611	ppbV	99
6) vinyl chloride	4.95	62	119976	9.745	ppbV	98
7) 1,3-butadiene	5.16	54	87617M4	9.605	ppbV	
8) bromomethane	5.54	94	104399	9.802	ppbV	100
9) chloroethane	5.78	64	56647	9.799	ppbV	94
10) ethanol	6.01	31	481748	47.112	ppbV	100
11) vinyl bromide	6.27	106	106153	9.706	ppbV	99
12) acetone	6.63	43	988844	48.695	ppbV	98
13) trichlorofluoromethane	6.84	101	297881	9.740	ppbV	100
14) isopropyl alcohol	7.00	45	538156	24.071	ppbV	100
15) acrylonitrile	7.25	53	87804M6	9.274	ppbV	
16) 1,1-dichloroethene	7.65	61	219602	9.743	ppbV	99
17) tertiary butyl alcohol	7.78	59	262382	9.678	ppbV	100
18) methylene chloride	7.82	49	173857	9.734	ppbV	98
19) 3-chloropropene	7.97	41	187312	9.781	ppbV	97
20) carbon disulfide	8.15	76	369027	9.876	ppbV	99
21) Freon 113	8.16	101	258772	9.801	ppbV	100
22) Halothane	8.74	117	203554	9.849	ppbV	100
23) trans-1,2-dichloroethene	8.97	61	213129	9.799	ppbV	93
24) 1,1-dichloroethane	9.21	63	243340	9.756	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD10.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 10:24:27 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.30	73	334896	9.761	ppbV	99
26) vinyl acetate	9.41	43	307890	10.858	ppbV	99
27) 2-butanone	9.70	43	321181	9.996	ppbV	99
28) cis-1,2-dichloroethene	10.19	61	191004	9.807	ppbV	100
29) Ethyl Acetate	10.46	61	41561	10.354	ppbV	91
30) chloroform	10.53	83	271379	9.809	ppbV	100
31) Tetrahydrofuran	10.99	42	168111M6	10.183	ppbV	
32) 1,2-dichloroethane	11.35	62	193220	9.791	ppbV	100
34) hexane	10.42	57	195788	9.992	ppbV #	80
36) 1,1,1-trichloroethane	11.64	97	273635	9.876	ppbV	100
37) benzene	12.15	78	368961	9.919	ppbV	100
38) carbon tetrachloride	12.32	117	296281	9.814	ppbV	100
39) cyclohexane	12.46	56	206928	9.732	ppbV	100
40) dibromomethane	13.04	93	162918	9.901	ppbV	100
41) 1,2-dichloropropane	13.06	63	151471	9.910	ppbV	99
42) bromodichloromethane	13.29	83	320973	10.270	ppbV	100
43) 1,4-dioxane	13.34	88	84006	9.748	ppbV	82
44) trichloroethene	13.33	130	177332	9.758	ppbV	100
45) 2,2,4-trimethylpentane	13.36	57	656501	9.832	ppbV	100
46) heptane	13.65	43	277204	10.039	ppbV	100
47) cis-1,3-dichloropropene	14.29	75	888065	10.909	ppbV #	77
48) 4-methyl-2-pentanone	14.32	43	402859	10.034	ppbV #	91
49) trans-1,3-dichloropropene	14.86	75	291392	10.322	ppbV	99
50) 1,1,2-trichloroethane	15.05	97	208733	10.045	ppbV	99
52) toluene	15.32	91	647501	9.902	ppbV	100
54) 2-hexanone	15.55	43	530588	10.198	ppbV	99
55) dibromochloromethane	15.74	129	400430	9.991	ppbV	99
56) 1,2-dibromoethane	15.96	107	341932	10.119	ppbV	100
57) tetrachloroethene	16.36	166	282218	9.835	ppbV	100
58) 1,1,1,2-tetrachloroethane	16.91	131	217403	9.824	ppbV	100
59) chlorobenzene	16.93	112	389913	9.855	ppbV	100
60) ethylbenzene	17.22	91	594016	9.824	ppbV	100
61) m+p-xylene	17.36	91	928393	19.669	ppbV	100
62) bromoform	17.44	173	305831	9.986	ppbV	99
63) styrene	17.64	104	359609	9.874	ppbV	100
64) 1,1,2,2-tetrachloroethane	17.72	83	375342	9.932	ppbV	100
65) o-xylene	17.72	91	478240	9.806	ppbV	100
66) 1,2,3-trichloropropane	17.81	75	296716	9.787	ppbV	99
68) isopropylbenzene	18.15	105	635773	9.789	ppbV	100
69) bromobenzene	18.24	77	361441	9.862	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238827.D
 Acq On : 8 Feb 2016 1:57 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD10.0
 Misc : WG863731
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 09 10:24:27 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

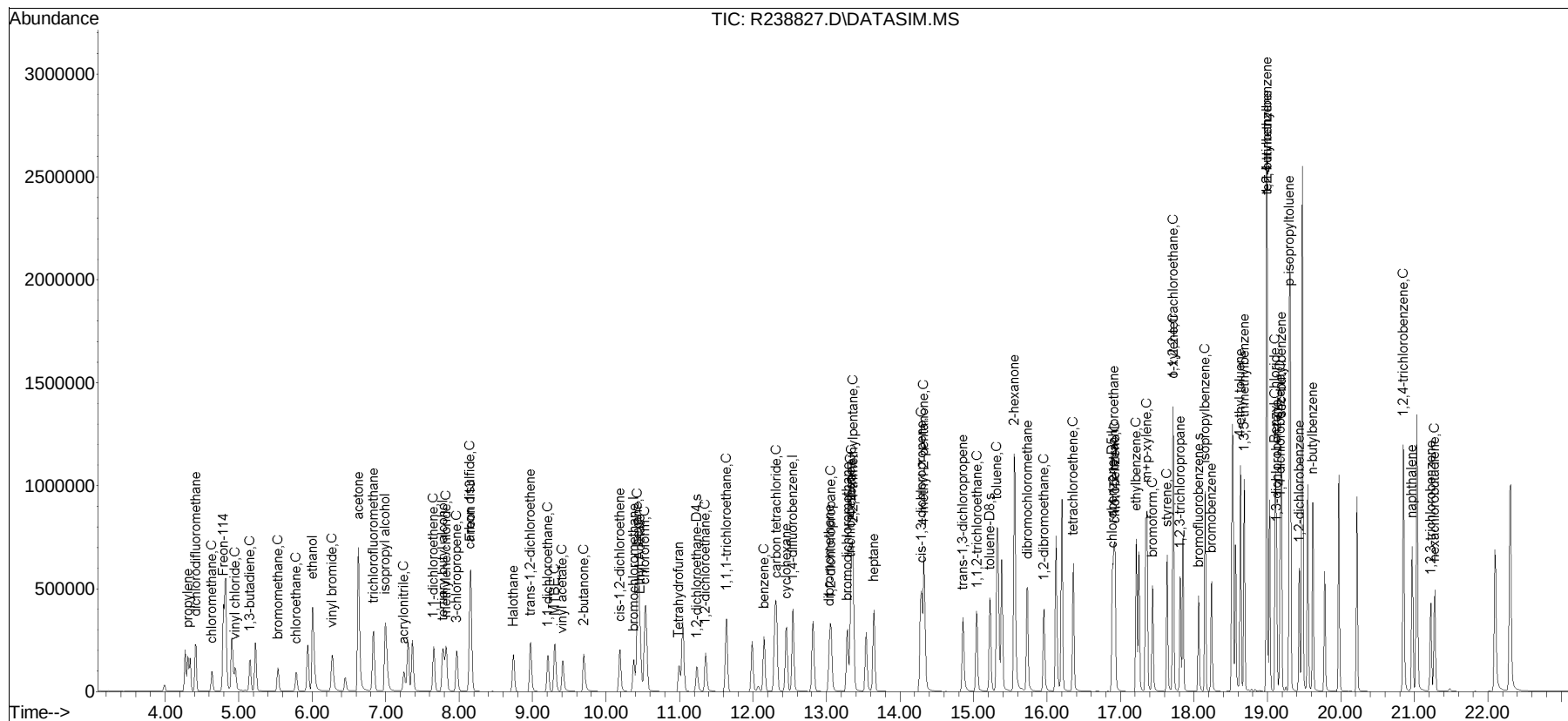
70) 4-ethyl toluene	18.63	105	701503M4	9.862	ppbV	
71) 1,3,5-trimethylbenzene	18.68	105	579105	9.808	ppbV	100
72) tert-butylbenzene	18.99	119	560205	9.509	ppbV	100
73) 1,2,4-trimethylbenzene	18.99	105	562820	9.631	ppbV	98
74) Benzyl Chloride	19.11	91	560172	10.231	ppbV	99
75) 1,3-dichlorobenzene	19.13	146	439507	9.742	ppbV	100
76) 1,4-dichlorobenzene	19.17	146	452538	9.715	ppbV	100
77) sec-butylbenzene	19.19	105	821058	9.622	ppbV	99
78) p-isopropyltoluene	19.30	119	710224	9.667	ppbV	98
79) 1,2-dichlorobenzene	19.44	146	429254	9.768	ppbV	100
80) n-butylbenzene	19.62	91	714188	9.798	ppbV	99
81) 1,2,4-trichlorobenzene	20.85	180	405459	9.759	ppbV	99
82) naphthalene	20.97	128	877540	9.835	ppbV	100
83) 1,2,3-trichlorobenzene	21.22	180	399178	9.904	ppbV	97
84) hexachlorobutadiene	21.28	225	333042	9.920	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed0207SIM_ICAL\R238826.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238827.D
Acq On : 8 Feb 2016 1:57 am
Operator : AIRPIANO2:MR
Sample : IT015-SIMSTD10.0
Misc : WG863731
ALS Vial : 7 Sample Multiplier: 1

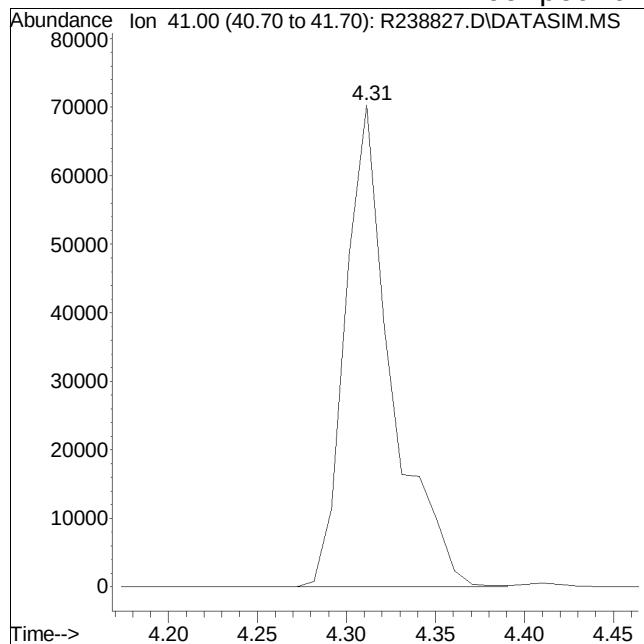
Quant Time: Feb 09 10:24:27 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

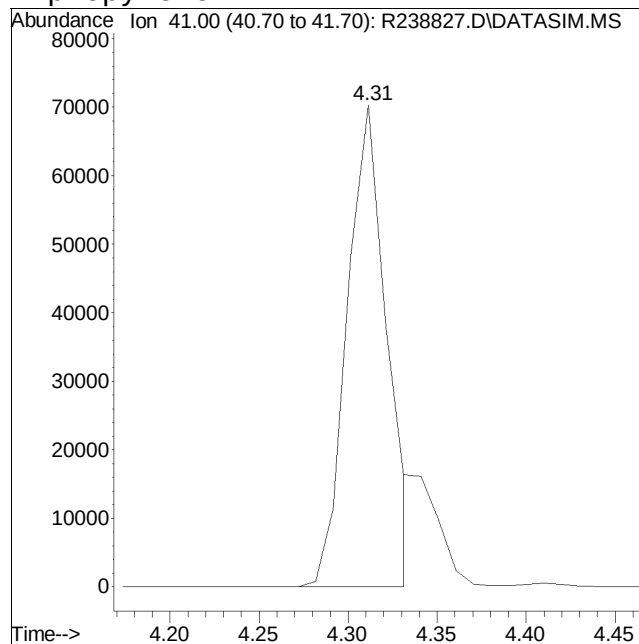
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238827.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 126797

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

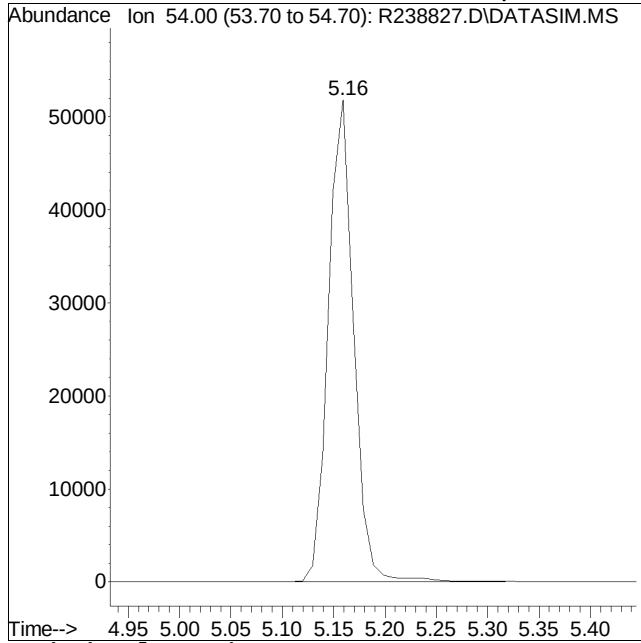


Manual Peak Response = 109607 M6

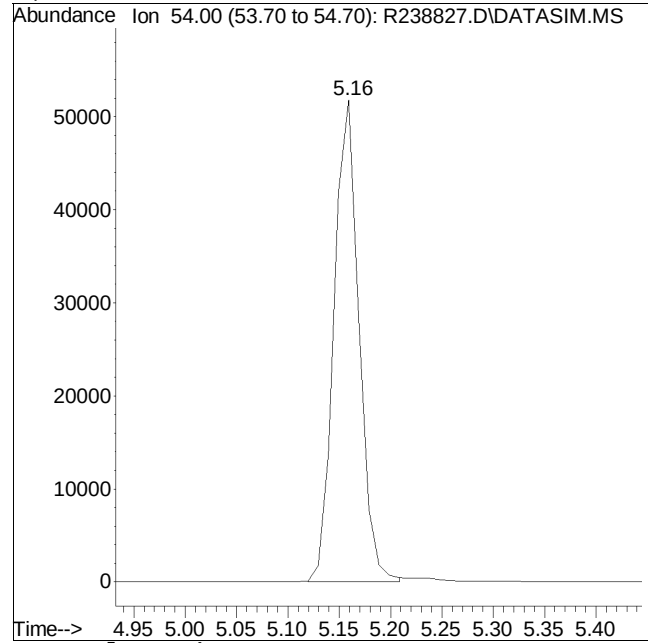
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238827.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/9/2016 9:32 am

Compound #7: 1,3-butadiene



Original Peak Response = 88685



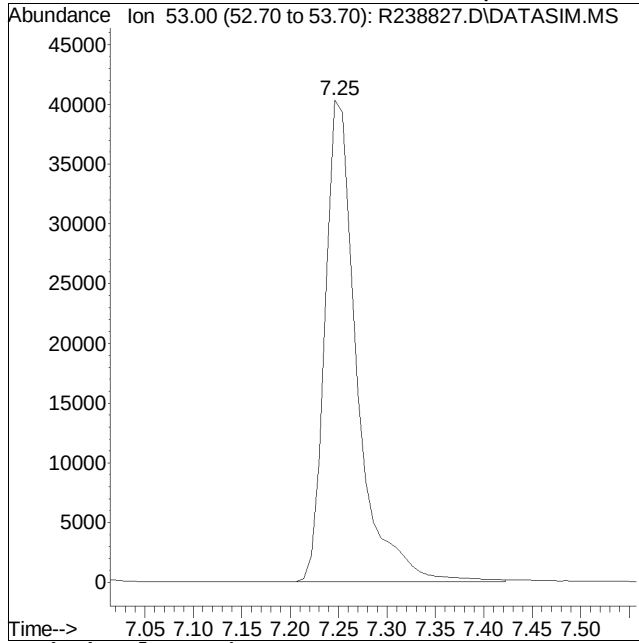
Manual Peak Response = 87617 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

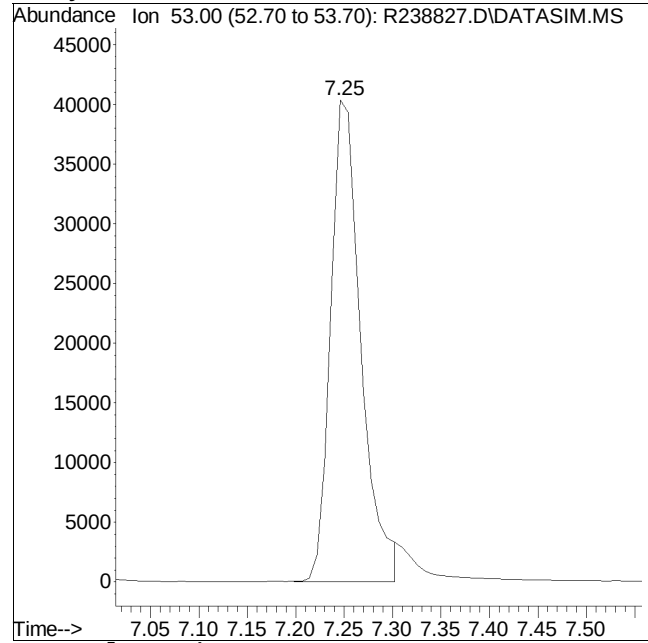
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238827.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 92823

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

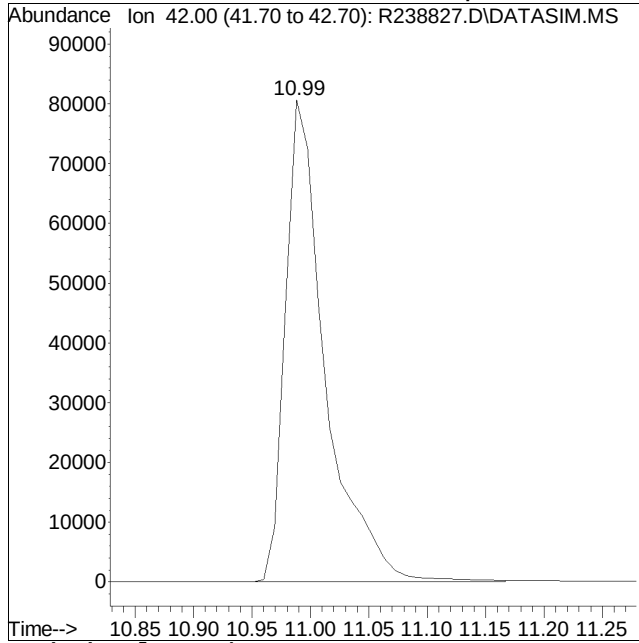


Manual Peak Response = 87804 M6

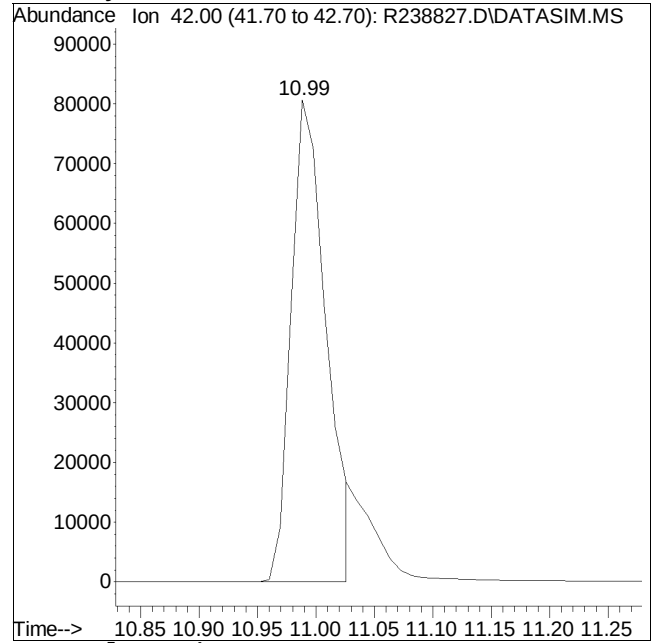
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238827.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 192384



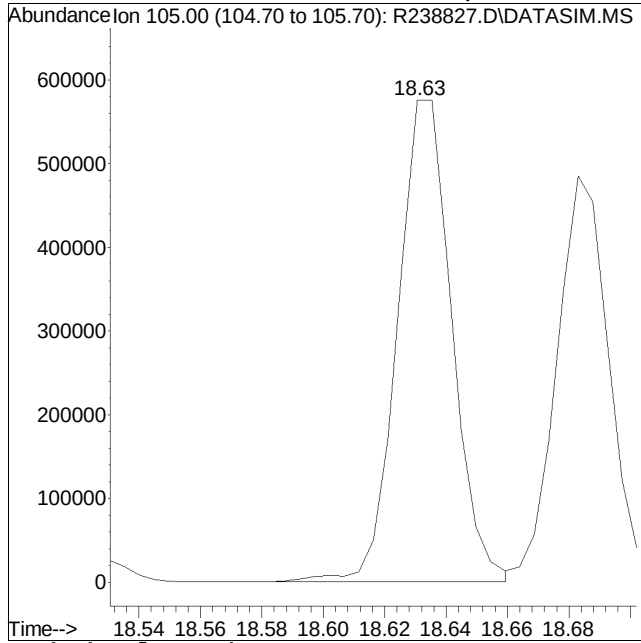
Manual Peak Response = 168111 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

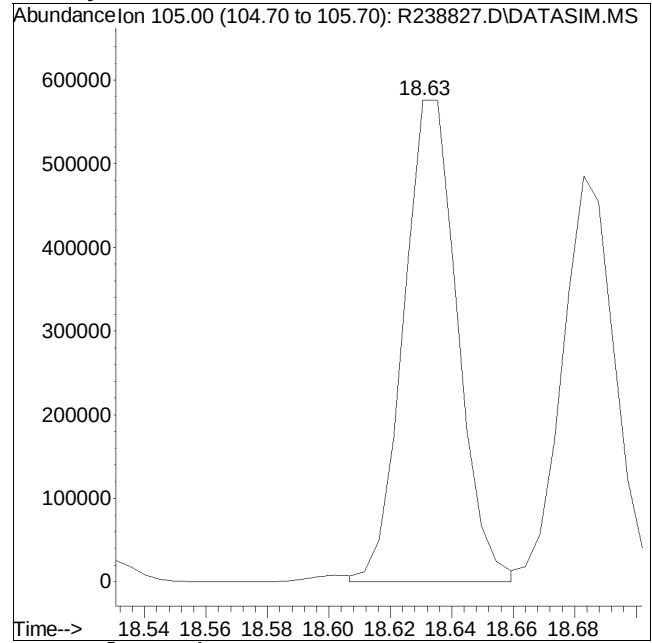
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238827.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 1:57 am Instrument : Air Piano 2
Sample : IT015-SIMSTD10.0 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 708422



Manual Peak Response = 701503 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD20.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:26:38 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	192498	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	101.91%		
33) 1,4-difluorobenzene	12.54	114	440711	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	99.22%		
51) chlorobenzene-D5	16.89	54	99376	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	98.75%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	118072	10.223	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.23%		
53) toluene-D8	15.23	98	440702	10.070	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.70%		
67) bromofluorobenzene	18.06	95	243460	10.142	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.42%		
Target Compounds						
					Qvalue	
2) propylene	4.31	41	234489M6	20.696	ppbV	
3) dichlorodifluoromethane	4.41	85	517079	19.649	ppbV	98
4) chloromethane	4.64	50	247031	20.118	ppbV	98
5) Freon-114	4.79	85	646088	19.681	ppbV	97
6) vinyl chloride	4.95	62	251171	20.253	ppbV	99
7) 1,3-butadiene	5.16	54	185803	20.220	ppbV	88
8) bromomethane	5.54	94	213342	19.886	ppbV	100
9) chloroethane	5.78	64	115698	19.868	ppbV	94
10) ethanol	6.01	31	1022685	99.285	ppbV	100
11) vinyl bromide	6.27	106	220416	20.006	ppbV	100
12) acetone	6.62	43	2027050	99.095	ppbV	99
13) trichlorofluoromethane	6.84	101	621008	20.158	ppbV	100
14) isopropyl alcohol	7.00	45	1119302	49.700	ppbV	100
15) acrylonitrile	7.25	53	185505M6	19.450	ppbV	
16) 1,1-dichloroethene	7.65	61	455337	20.054	ppbV	100
17) tertiary butyl alcohol	7.77	59	552722	20.238	ppbV	100
18) methylene chloride	7.83	49	360893	20.058	ppbV	88
19) 3-chloropropene	7.97	41	394707	20.460	ppbV	100
20) carbon disulfide	8.15	76	765485	20.337	ppbV	99
21) Freon 113	8.16	101	532872	20.035	ppbV	100
22) Halothane	8.74	117	424945	20.412	ppbV	100
23) trans-1,2-dichloroethene	8.98	61	444382	20.283	ppbV	99
24) 1,1-dichloroethane	9.21	63	505599	20.122	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD20.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:26:38 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.30	73	696313	20.147	ppbV	98
26) vinyl acetate	9.41	43	696853	24.395	ppbV	99
27) 2-butanone	9.69	43	674916	20.851	ppbV	98
28) cis-1,2-dichloroethene	10.19	61	396676	20.218	ppbV	96
29) Ethyl Acetate	10.46	61	89303	22.087	ppbV	96
30) chloroform	10.54	83	560822	20.123	ppbV	97
31) Tetrahydrofuran	10.99	42	362625M6	21.805	ppbV	
32) 1,2-dichloroethane	11.35	62	403419	20.294	ppbV	99
34) hexane	10.43	57	405948	20.727	ppbV #	74
36) 1,1,1-trichloroethane	11.64	97	578648	20.895	ppbV	97
37) benzene	12.15	78	768532	20.671	ppbV	98
38) carbon tetrachloride	12.32	117	616490	20.430	ppbV	99
39) cyclohexane	12.46	56	434352	20.439	ppbV	98
40) dibromomethane	13.04	93	339620	20.649	ppbV	100
41) 1,2-dichloropropane	13.06	63	317563	20.788	ppbV	99
42) bromodichloromethane	13.29	83	674030	21.576	ppbV	99
43) 1,4-dioxane	13.33	88	177968	20.661	ppbV #	76
44) trichloroethene	13.33	130	363490	20.011	ppbV	99
45) 2,2,4-trimethylpentane	13.36	57	1356837	20.330	ppbV	98
46) heptane	13.65	43	569546	20.637	ppbV	99
47) cis-1,3-dichloropropene	14.29	75	1831839	22.512	ppbV #	78
48) 4-methyl-2-pentanone	14.32	43	824585	20.548	ppbV	96
49) trans-1,3-dichloropropene	14.86	75	613762	21.751	ppbV	100
50) 1,1,2-trichloroethane	15.05	97	430376	20.722	ppbV	98
52) toluene	15.32	91	1308713	20.132	ppbV	100
54) 2-hexanone	15.55	43	1081176	20.904	ppbV	98
55) dibromochloromethane	15.74	129	831710	20.876	ppbV	99
56) 1,2-dibromoethane	15.96	107	698373	20.791	ppbV	100
57) tetrachloroethene	16.36	166	575404	20.172	ppbV	98
58) 1,1,1,2-tetrachloroethane	16.91	131	446201	20.283	ppbV	99
59) chlorobenzene	16.93	112	795174	20.218	ppbV	98
60) ethylbenzene	17.22	91	1209118	20.115	ppbV	100
61) m+p-xylene	17.36	91	1887005	40.216	ppbV	100
62) bromoform	17.44	173	638112	20.959	ppbV	99
63) styrene	17.64	104	742196	20.501	ppbV	98
64) 1,1,2,2-tetrachloroethane	17.72	83	765005	20.362	ppbV	100
65) o-xylene	17.72	91	965146	19.907	ppbV	100
66) 1,2,3-trichloropropane	17.81	75	612336	20.317	ppbV	99
68) isopropylbenzene	18.16	105	1273982	19.732	ppbV	99
69) bromobenzene	18.24	77	745112	20.452	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238828.D
 Acq On : 8 Feb 2016 2:30 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD20.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:26:38 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

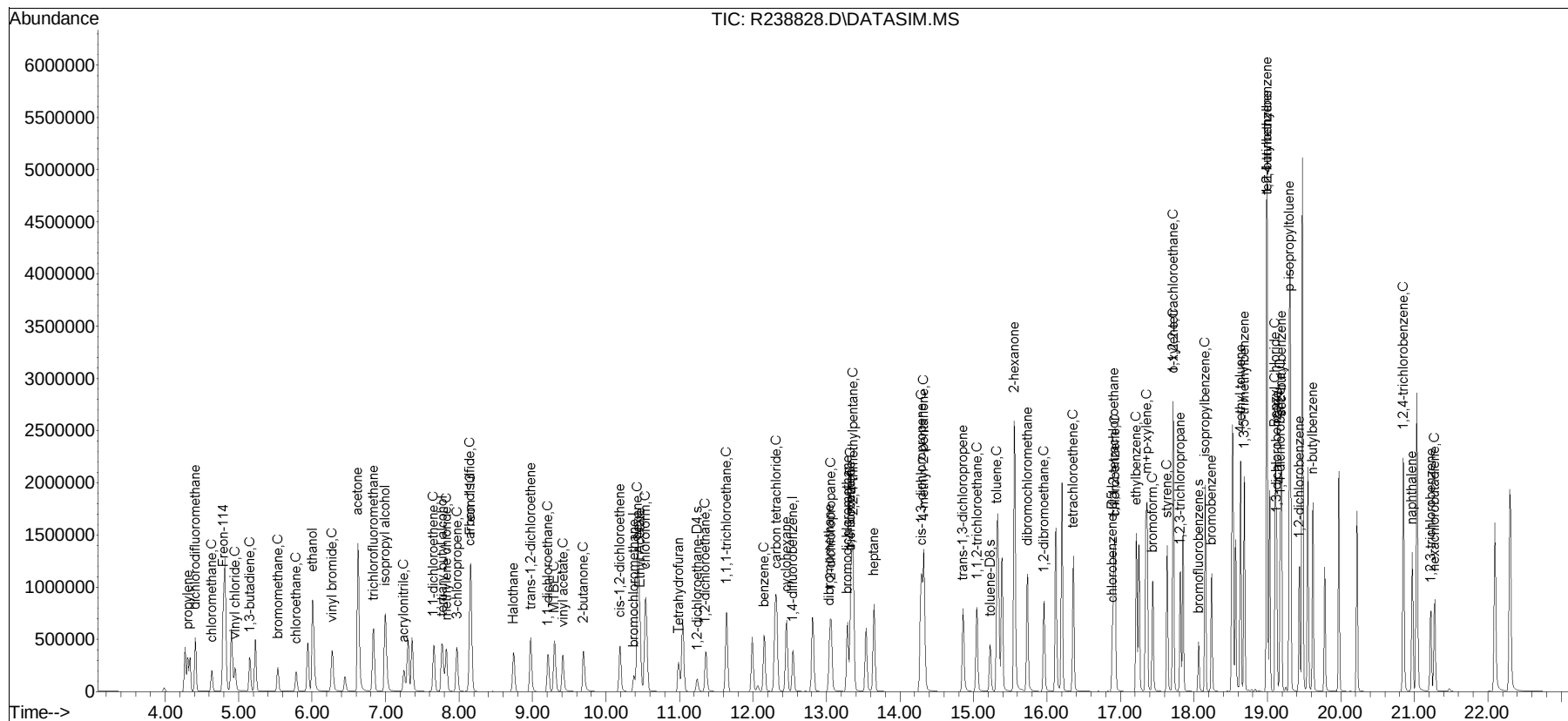
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	1413331M6	19.986	ppbV	
71) 1,3,5-trimethylbenzene	18.68	105	1165771	19.861	ppbV	100
72) tert-butylbenzene	18.99	119	1088096	18.580	ppbV	100
73) 1,2,4-trimethylbenzene	18.99	105	1106497	19.047	ppbV	95
74) Benzyl Chloride	19.11	91	1170607	21.508	ppbV	100
75) 1,3-dichlorobenzene	19.13	146	881509	19.655	ppbV	96
76) 1,4-dichlorobenzene	19.17	146	897563	19.383	ppbV	98
77) sec-butylbenzene	19.19	105	1631621	19.234	ppbV	99
78) p-isopropyltoluene	19.30	119	1394657	19.095	ppbV	99
79) 1,2-dichlorobenzene	19.44	146	858165	19.643	ppbV	98
80) n-butylbenzene	19.62	91	1410697	19.468	ppbV	98
81) 1,2,4-trichlorobenzene	20.85	180	753780	18.251	ppbV	99
82) naphthalene	20.97	128	1644547	18.540	ppbV	99
83) 1,2,3-trichlorobenzene	21.23	180	747509	18.656	ppbV	96
84) hexachlorobutadiene	21.28	225	621102	18.610	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed0207SIM_ICAL\R238826.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238828.D
Acq On : 8 Feb 2016 2:30 am
Operator : AIRPIANO2:MR
Sample : IT015-SIMSTD20.0
Misc : WG863731
ALS Vial : 8 Sample Multiplier: 1

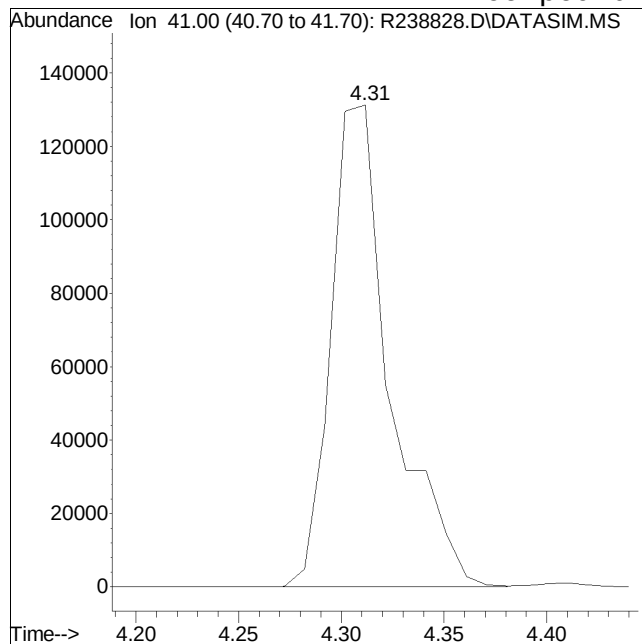
Quant Time: Feb 09 10:26:38 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

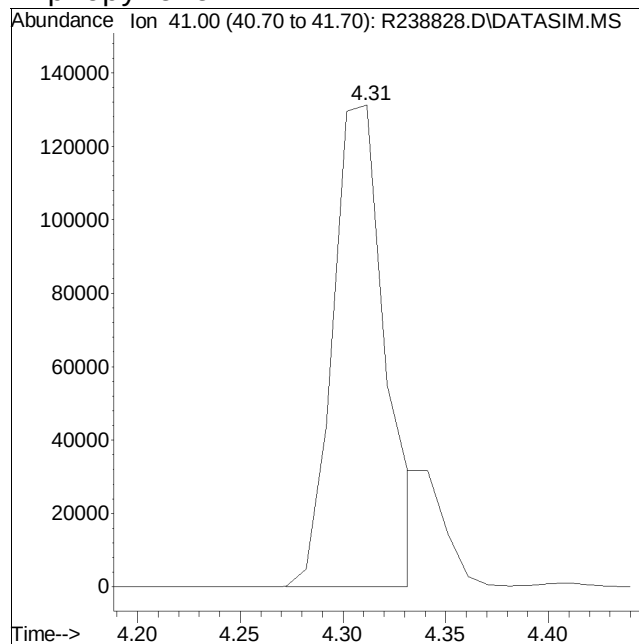
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Data File : R238828.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/9/2016 9:32 am

Compound #2: propylene



Original Peak Response = 264080

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



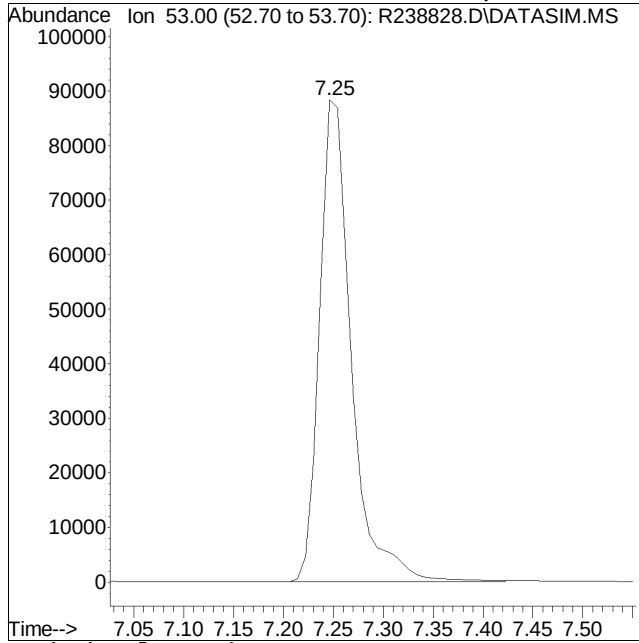
Manual Peak Response = 234489 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016Q
Data File : R238828.D
Date Inj'd : 2/8/2016 2:30 am
Sample : IT015-SIMSTD20.0

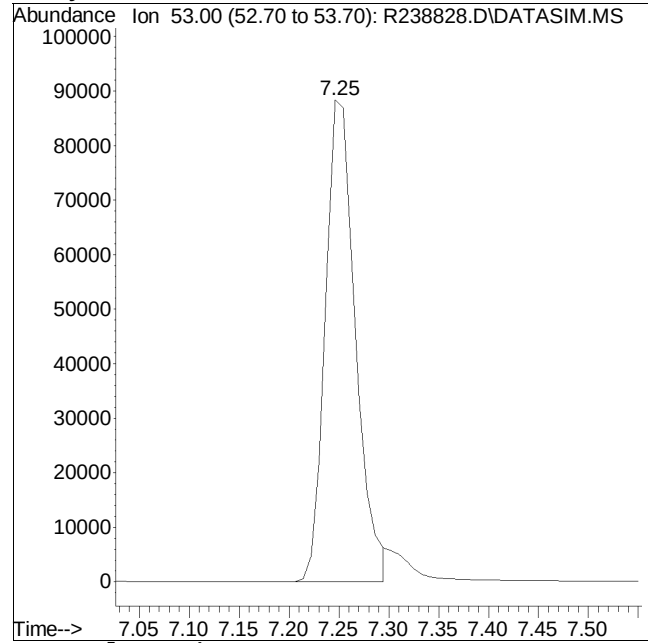
Method : TSIM160207.M
Operator : AIRPIAN02:MR
Instrument : Air Piano 2
Quant Date : 2/9/2016 9:32 am

Compound #15: acrylonitrile



Original Peak Response = 196521

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

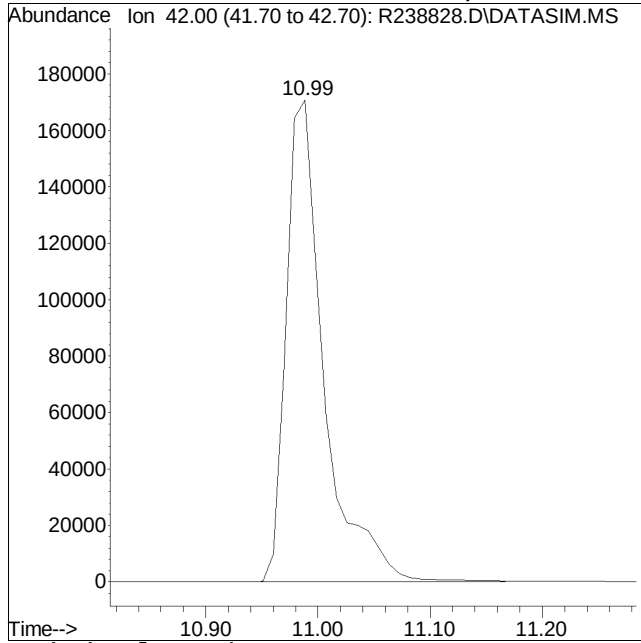


Manual Peak Response = 185505 M6

Manual Integration/Negative Proof Report

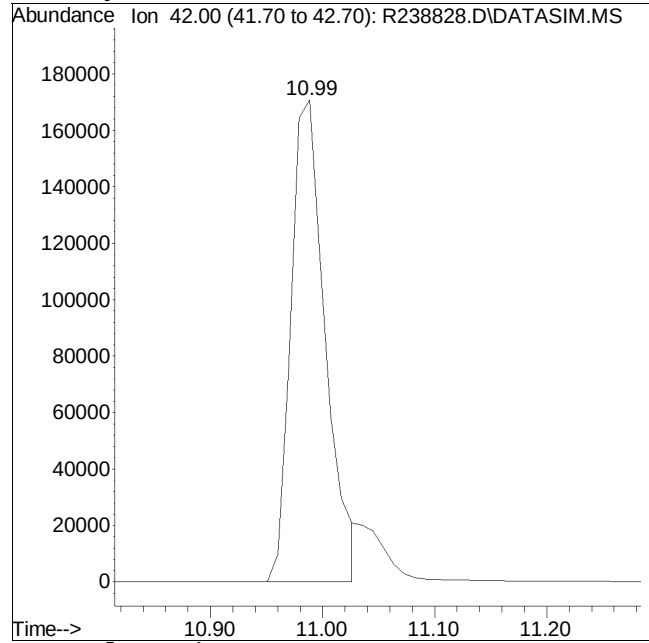
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Data File : R238828.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/9/2016 9:32 am

Compound #31: Tetrahydrofuran



Original Peak Response = 400612

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

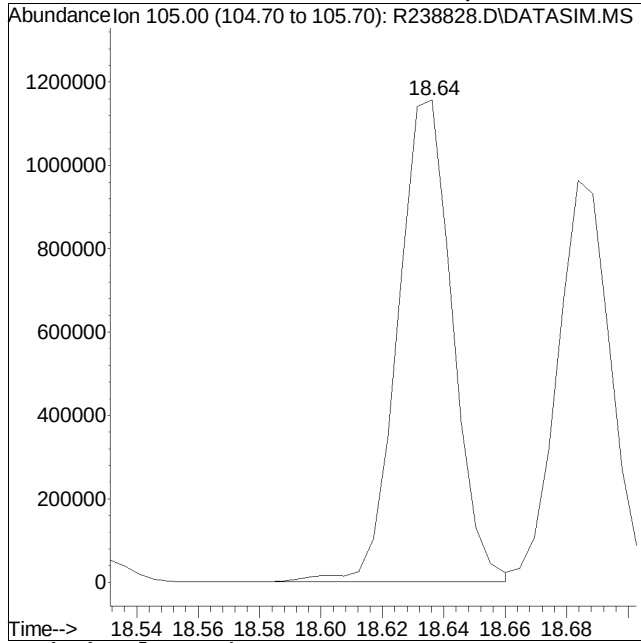


Manual Peak Response = 362625 M6

Manual Integration/Negative Proof Report

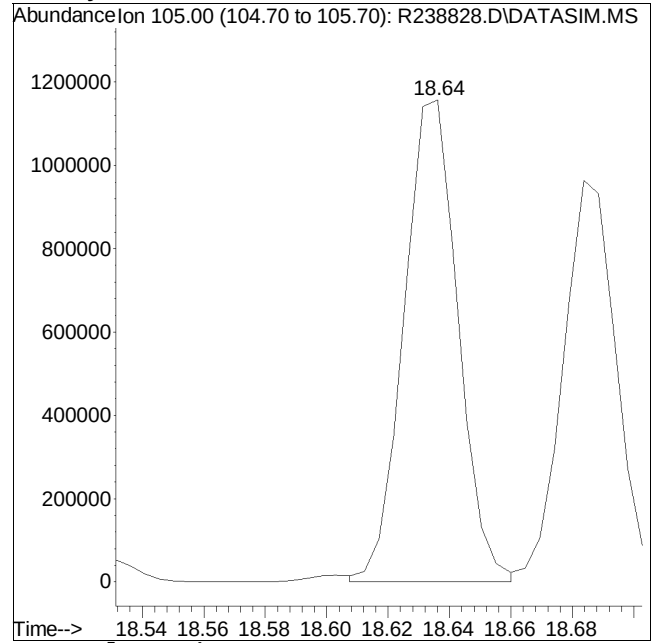
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Data File : R238828.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 2:30 am Instrument : Air Piano 2
Sample : IT015-SIMSTD20.0 Quant Date : 2/9/2016 9:32 am

Compound #70: 4-ethyl toluene



Original Peak Response = 1428237

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1413331 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD50.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:28:59 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.39	49	197632	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	104.63%		
33) 1,4-difluorobenzene	12.55	114	435862	10.000	ppbV	0.01
Standard Area = 444195			Recovery =	98.12%		
51) chlorobenzene-D5	16.89	54	100034	10.000	ppbV	# 0.00
Standard Area = 100631			Recovery =	99.41%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.24	65	115820	10.140	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.40%		
53) toluene-D8	15.23	98	442270	10.039	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.39%		
67) bromofluorobenzene	18.06	95	243924	10.094	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.94%		
Target Compounds						
					Qvalue	
2) propylene	4.31	41	536632M6	46.133	ppbV	
3) dichlorodifluoromethane	4.42	85	1052770	38.965	ppbV	99
4) chloromethane	4.64	50	579912	46.001	ppbV	99
5) Freon-114	4.79	85	1441734	42.777	ppbV	98
6) vinyl chloride	4.95	62	592516	46.535	ppbV	98
7) 1,3-butadiene	5.16	54	432526M4	45.848	ppbV	
8) bromomethane	5.54	94	515379	46.790	ppbV	100
9) chloroethane	5.79	64	274730	45.951	ppbV	99
10) ethanol	6.02	31	2382800	225.318	ppbV	98
11) vinyl bromide	6.27	106	518090	45.803	ppbV	100
12) acetone	6.63	43	4574279	217.809	ppbV	98
13) trichlorofluoromethane	6.84	101	1437223	45.439	ppbV	100
14) isopropyl alcohol	7.01	45	2585428	111.817	ppbV	99
15) acrylonitrile	7.25	53	441857M6	45.125	ppbV	
16) 1,1-dichloroethene	7.66	61	1074171	46.079	ppbV	97
17) tertiary butyl alcohol	7.77	59	1314782	46.891	ppbV	97
18) methylene chloride	7.83	49	858861	46.495	ppbV	96
19) 3-chloropropene	7.97	41	942968	47.611	ppbV	98
20) carbon disulfide	8.16	76	1814091	46.944	ppbV	95
21) Freon 113	8.17	101	1238075	45.341	ppbV	99
22) Halothane	8.75	117	994945	46.550	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	1047070	46.551	ppbV	95
24) 1,1-dichloroethane	9.22	63	1186956	46.012	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD50.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:28:59 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.30	73	1637790	46.157	ppbV	98
26) vinyl acetate	9.41	43	1751527	59.724	ppbV	99
27) 2-butanone	9.70	43	1599303	48.127	ppbV	99
28) cis-1,2-dichloroethene	10.19	61	930690	46.203	ppbV	90
29) Ethyl Acetate	10.46	61	213532	51.439	ppbV	92
30) chloroform	10.54	83	1288882	45.046	ppbV	99
31) Tetrahydrofuran	10.98	42	842117M6	49.322	ppbV	
32) 1,2-dichloroethane	11.36	62	943386	46.224	ppbV	99
34) hexane	10.43	57	920393	47.516	ppbV #	53
36) 1,1,1-trichloroethane	11.64	97	1336559	48.799	ppbV	93
37) benzene	12.16	78	1776947	48.325	ppbV	98
38) carbon tetrachloride	12.33	117	1424250	47.724	ppbV	98
39) cyclohexane	12.46	56	1012220	48.160	ppbV	95
40) dibromomethane	13.04	93	789391	48.530	ppbV	100
41) 1,2-dichloropropane	13.07	63	746335	49.398	ppbV	97
42) bromodichloromethane	13.29	83	1534346M4	49.662	ppbV	
43) 1,4-dioxane	13.33	88	422037	49.541	ppbV #	70
44) trichloroethene	13.34	130	827007	46.035	ppbV	98
45) 2,2,4-trimethylpentane	13.36	57	3103767	47.023	ppbV	95
46) heptane	13.65	43	1336363	48.960	ppbV	97
47) cis-1,3-dichloropropene	14.29	75	4364227	54.231	ppbV #	78
48) 4-methyl-2-pentanone	14.32	43	1937205	48.810	ppbV #	96
49) trans-1,3-dichloropropene	14.86	75	1485141	53.218	ppbV	97
50) 1,1,2-trichloroethane	15.05	97	1008401	49.094	ppbV	92
52) toluene	15.33	91	3006502	45.945	ppbV	99
54) 2-hexanone	15.55	43	2545778	48.897	ppbV	98
55) dibromochloromethane	15.74	129	1942871	48.445	ppbV	98
56) 1,2-dibromoethane	15.96	107	1631601	48.254	ppbV	99
57) tetrachloroethene	16.36	166	1331815	46.382	ppbV	95
58) 1,1,1,2-tetrachloroethane	16.91	131	1001836	45.241	ppbV	98
59) chlorobenzene	16.93	112	1790570	45.226	ppbV	98
60) ethylbenzene	17.22	91	2734457	45.191	ppbV	100
61) m+p-xylene	17.36	91	4194146	88.798	ppbV	100
62) bromoform	17.44	173	1464725	47.793	ppbV	99
63) styrene	17.64	104	1672023	45.881	ppbV	96
64) 1,1,2,2-tetrachloroethane	17.72	83	1704620	45.074	ppbV	99
65) o-xylene	17.72	91	2054279	42.092	ppbV	98
66) 1,2,3-trichloropropane	17.82	75	1414721	46.631	ppbV	99
68) isopropylbenzene	18.16	105	2798294	43.056	ppbV	99
69) bromobenzene	18.24	77	1722424	46.966	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238829.D
 Acq On : 8 Feb 2016 3:03 am
 Operator : AIRPIAN02:MR
 Sample : IT015-SIMSTD50.0
 Misc : WG863731
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 09 10:28:59 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 09:32:10 2016
 Response via : Initial Calibration

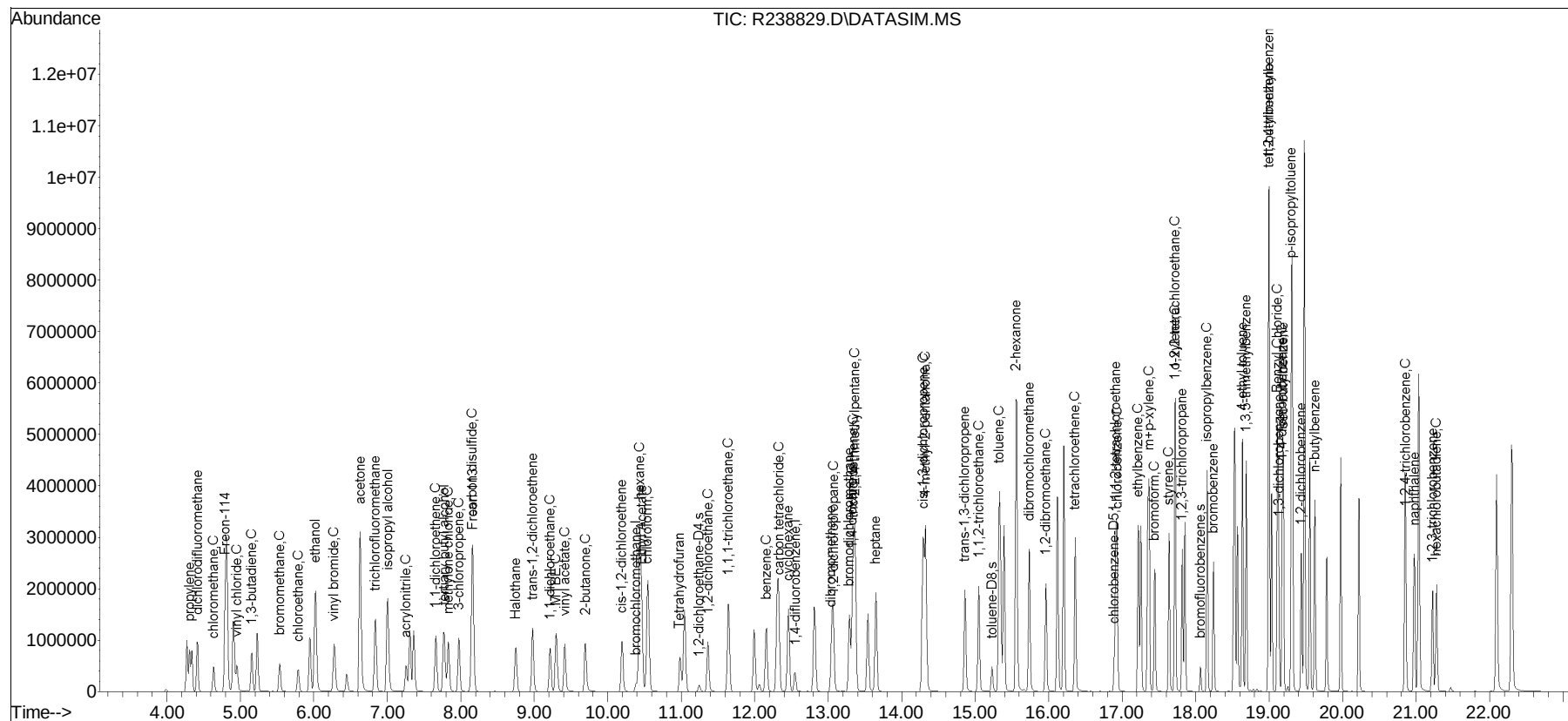
CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.64	105	3063450M4	43.036	ppbV	
71) 1,3,5-trimethylbenzene	18.69	105	2472690	41.849	ppbV	98
72) tert-butylbenzene	18.99	119	2232454	37.870	ppbV	99
73) 1,2,4-trimethylbenzene	19.00	105	2273967	38.885	ppbV	96
74) Benzyl Chloride	19.11	91	2616442	47.757	ppbV	96
75) 1,3-dichlorobenzene	19.13	146	1933714	42.833	ppbV	97
76) 1,4-dichlorobenzene	19.18	146	1932146	41.451	ppbV	99
77) sec-butylbenzene	19.19	105	3365809	39.416	ppbV	95
78) p-isopropyltoluene	19.30	119	2853078	38.806	ppbV	97
79) 1,2-dichlorobenzene	19.44	146	1894946	43.090	ppbV #	90
80) n-butylbenzene	19.62	91	2990488	40.998	ppbV	93
81) 1,2,4-trichlorobenzene	20.86	180	1629648	39.200	ppbV #	84
82) naphthalene	20.98	128	3642668	40.796	ppbV	99
83) 1,2,3-trichlorobenzene	21.23	180	1768051	43.836	ppbV	99
84) hexachlorobutadiene	21.28	225	1412827	42.055	ppbV	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238829.D
Acq On    : 8 Feb 2016    3:03 am
Operator  : AIRPIAN02:MR
Sample    : IT015-SIMSTD50.0
Misc      : WG863731
ALS Vial  : 8    Sample Multiplier: 1
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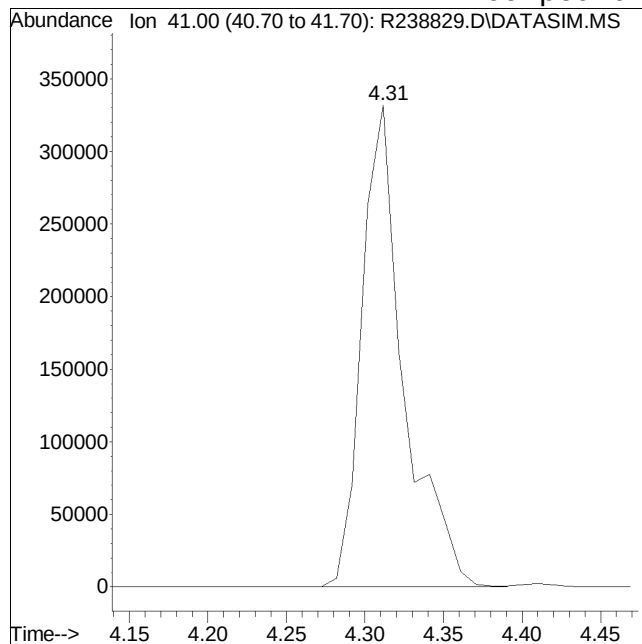
Quant Time: Feb 09 10:28:59 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 09:32:10 2016
Response via : Initial Calibration



Manual Integration/Negative Proof Report

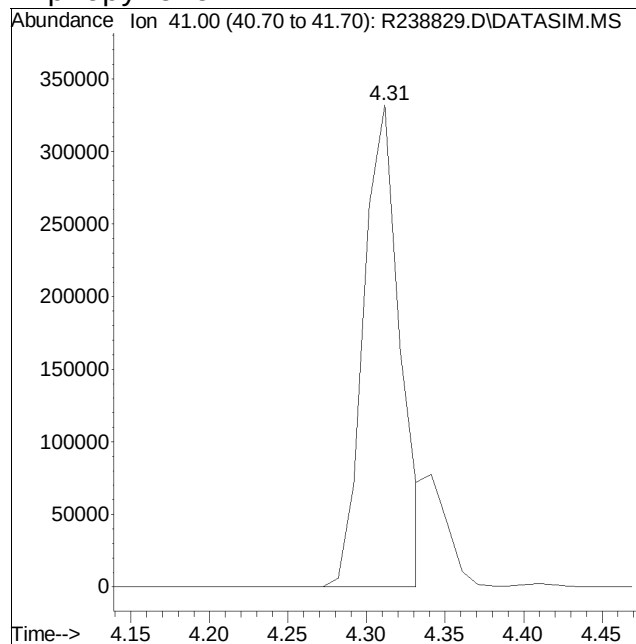
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Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #2: propylene



Original Peak Response = 617515

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

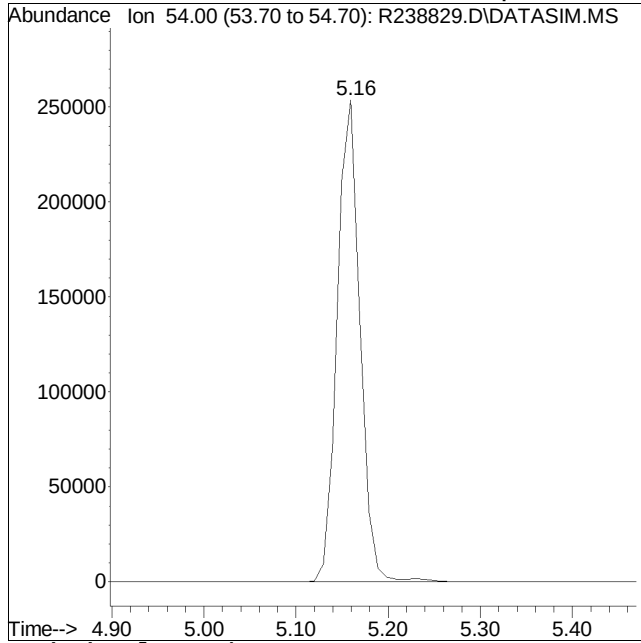


Manual Peak Response = 536632 M6

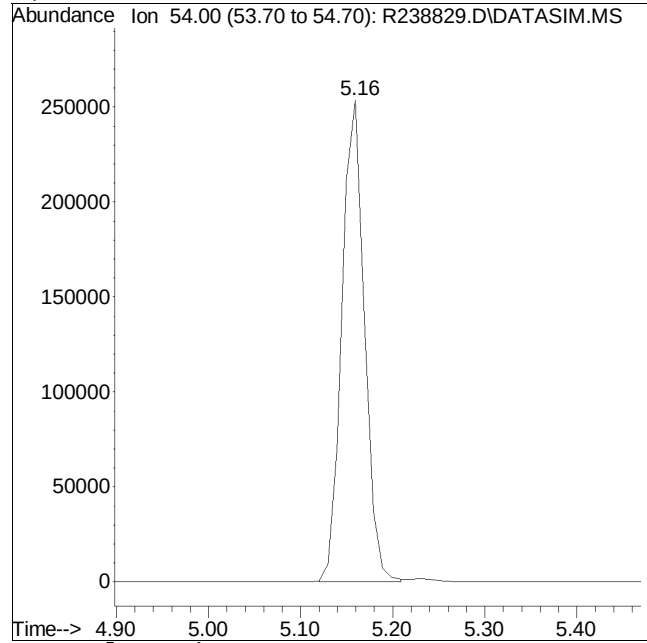
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #7: 1,3-butadiene



Original Peak Response = 437373



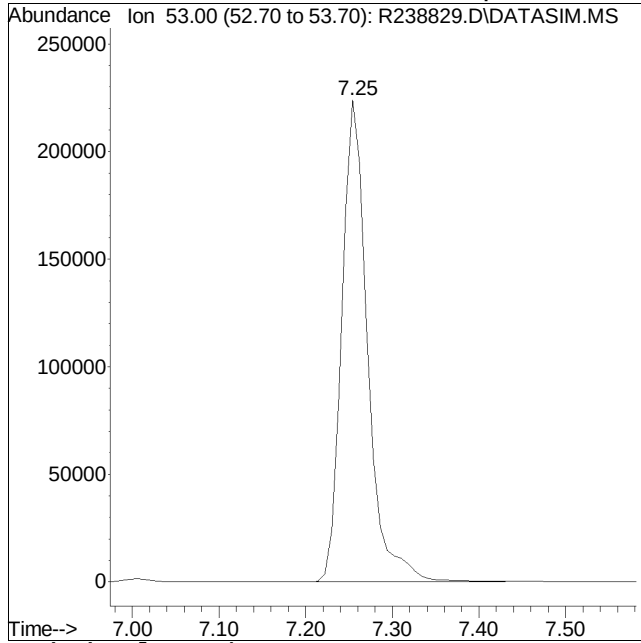
Manual Peak Response = 432526 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

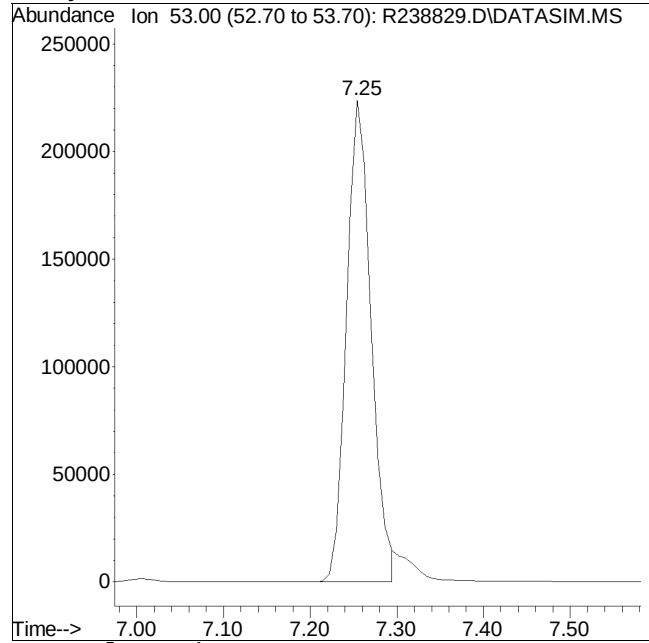
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #15: acrylonitrile



Original Peak Response = 464914

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

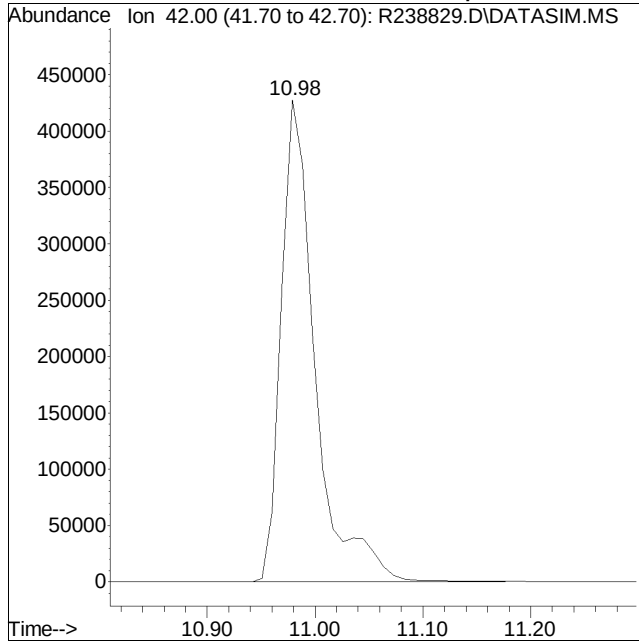


Manual Peak Response = 441857 M6

Manual Integration/Negative Proof Report

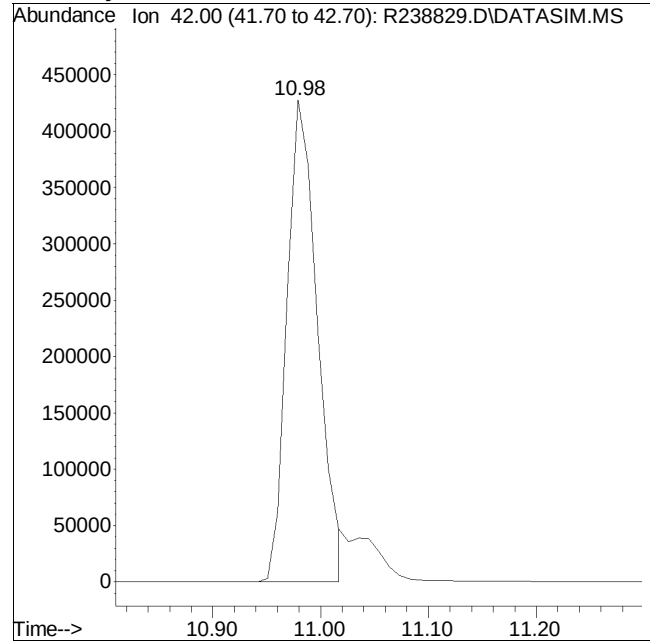
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #31: Tetrahydrofuran



Original Peak Response = 938833

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

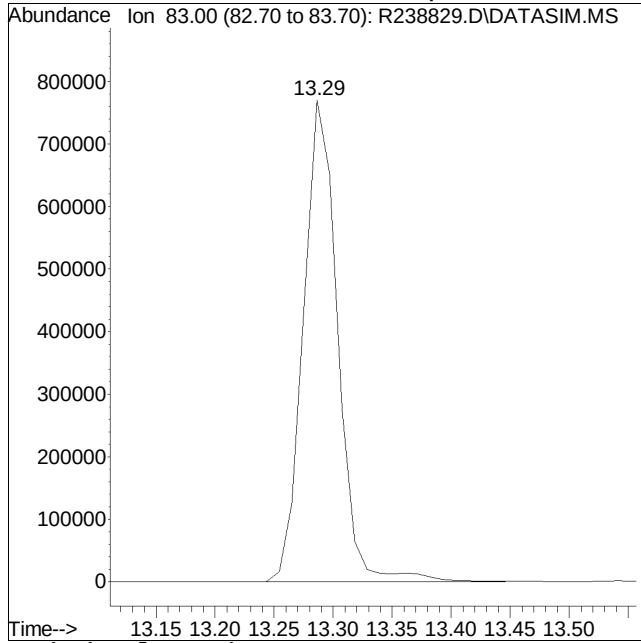


Manual Peak Response = 842117 M6

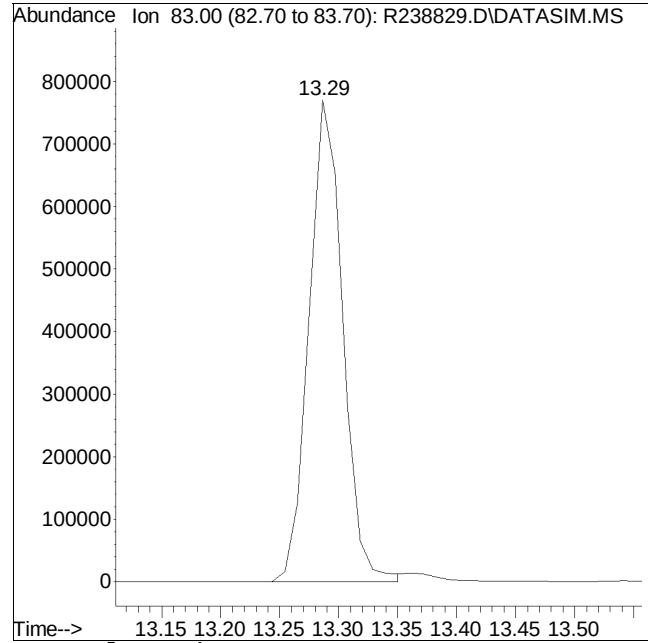
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #42: bromodichloromethane



Original Peak Response = 1565117



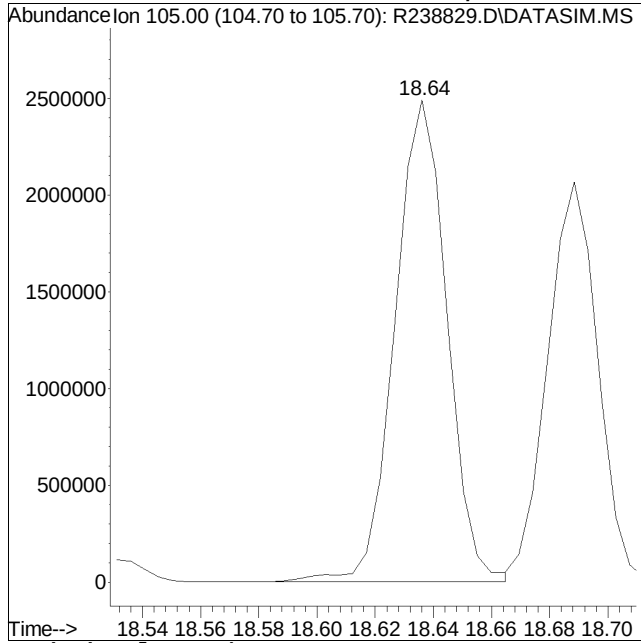
Manual Peak Response = 1534346 M4

M4 = Poor automated baseline construction.

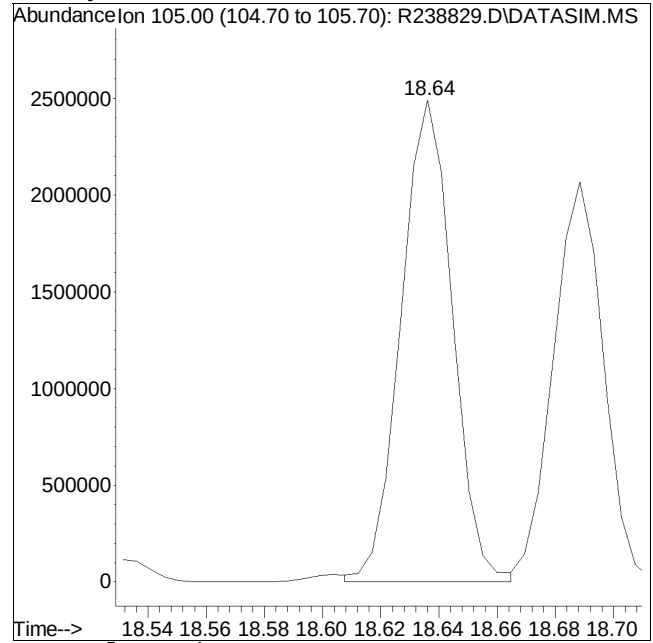
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238829.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 3:03 am Instrument : Air Piano 2
Sample : IT015-SIMSTD50.0 Quant Date : 2/9/2016 9:33 am

Compound #70: 4-ethyl toluene



Original Peak Response = 3097357



Manual Peak Response = 3063450 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	101	0.00
2	propylene	0.739	0.607	17.9	104	0.00
3	dichlorodifluoromethane	1.361	1.403	-3.1	104	0.00
4 C	chloromethane	0.704	0.629	10.7	100	0.00
5	Freon-114	1.802	1.706	5.3	101	0.00
6 C	vinyl chloride	0.691	0.643	6.9	101	0.00
7 C	1,3-butadiene	0.505	0.497	1.6	105	0.00
8 C	bromomethane	0.609	0.561	7.9	102	0.00
9 C	chloroethane	0.327	0.304	7.0	102	0.00
10	ethanol	0.550	0.497	9.6	94	0.00
11 C	vinyl bromide	0.597	0.572	4.2	101	0.00
12	acetone	1.129	0.998	11.6	95	0.00
13	trichlorofluoromethane	1.699	1.591	6.4	100	0.00
14	isopropyl alcohol	1.249	1.149	8.0	99	0.00
15 C	acrylonitrile	0.536	0.429	20.0	87	0.00
16 C	1,1-dichloroethene	1.266	1.154	8.8	99	0.00
17	tertiary butyl alcohol	1.609	1.342	16.6	95	0.00
18 C	methylene chloride	0.993	0.908	8.6	98	0.00
19 C	3-chloropropene	1.228	1.033	15.9	104	0.00
20 C	carbon disulfide	2.103	1.898	9.7	98	0.00
21	Freon 113	1.476	1.390	5.8	102	0.00
22	Halothane	1.154	0.959	16.9	89	0.00
23	trans-1,2-dichloroethene	1.196	1.008	15.7	89	0.00
24 C	1,1-dichloroethane	1.379	1.279	7.3	99	0.00
25 C	MTBE	1.885	1.766	6.3	99	0.00
26 C	vinyl acetate	1.587	1.629	-2.6	111	0.00
27 C	2-butanone	1.756	1.638	6.7	98	0.00
28	cis-1,2-dichloroethene	1.079	1.098	-1.8	109	0.00
29	Ethyl Acetate	0.228	0.213	6.6	102	0.00
30 C	chloroform	1.535	1.453	5.3	101	0.00
31	Tetrahydrofuran	0.960	0.797	17.0	93	0.00
32 C	1,2-dichloroethane	1.089	1.005	7.7	98	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00
34 C	hexane	0.495	0.430	13.1	98	0.00
35 s	1,2-dichloroethane-D4	0.269	0.260	3.3	101	0.00
36 C	1,1,1-trichloroethane	0.682	0.632	7.3	102	0.00
37 C	benzene	0.942	0.816	13.4	98	0.00
38 C	carbon tetrachloride	0.728	0.676	7.1	101	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.534	0.461	13.7	97	0.00
40	dibromomethane	0.424	0.345	18.6	94	0.00
41 C	1,2-dichloropropane	0.366	0.344	6.0	101	0.00
42	bromodichloromethane	0.764	0.700	8.4	100	0.00
43 C	1,4-dioxane	0.205	0.192	6.3	100	0.01
44 C	trichloroethene	0.435	0.412	5.3	102	0.00
45 C	2,2,4-trimethylpentane	1.609	1.476	8.3	99	0.00
46	heptane	0.669	0.600	10.3	98	0.00
47 C	cis-1,3-dichloropropene	1.952	1.894	3.0	104	0.00
48 C	4-methyl-2-pentanone	0.932	0.875	6.1	98	0.00
49	trans-1,3-dichloropropene	0.664	0.567	14.6	90	0.00
50 C	1,1,2-trichloroethane	0.500	0.479	4.2	104	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	99	0.00
52 C	toluene	6.983	6.402	8.3	97	0.00
53 s	toluene-D8	4.429	4.562	-3.0	103	0.00
54	2-hexanone	4.819	5.199	-7.9	99	0.00
55	dibromochloromethane	4.188	4.098	2.1	101	0.00
56 C	1,2-dibromoethane	3.493	3.497	-0.1	103	0.00
57 C	tetrachloroethene	3.015	2.947	2.3	102	0.00
58	1,1,1,2-tetrachloroethane	2.318	2.095	9.6	94	0.00
59 C	chlorobenzene	4.131	4.088	1.0	102	0.00
60 C	ethylbenzene	6.272	6.186	1.4	101	0.00
61 C	m+p-xylene	4.851	4.819	0.7	101	0.00
62 C	bromoform	3.117	3.116	0.0	101	0.00
63 C	styrene	3.684	3.773	-2.4	103	0.00
64 C	1,1,2,2-tetrachloroethane	3.893	3.881	0.3	102	0.00
65 C	o-xylene	5.101	5.042	1.2	103	0.00
66	1,2,3-trichloropropane	3.108	2.832	8.9	93	0.00
67 s	bromofluorobenzene	2.414	2.489	-3.1	102	0.00
68 C	isopropylbenzene	6.730	6.413	4.7	98	0.00
69	bromobenzene	3.799	3.492	8.1	95	0.00
70	4-ethyl toluene	7.039	6.802	3.4	95	0.00
71	1,3,5-trimethylbenzene	6.224	6.022	3.2	101	0.00
72	tert-butylbenzene	5.963	5.590	6.3	94	0.00
73	1,2,4-trimethylbenzene	5.728	5.953	-3.9	101	0.00
74 C	Benzyl Chloride	5.533	5.696	-2.9	103	0.00
75	1,3-dichlorobenzene	4.245	4.619	-8.8	102	0.00
76 C	1,4-dichlorobenzene	4.637	4.754	-2.5	101	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	8.421	7.987	5.2	93	0.00
78	p-isopropyltoluene	7.145	6.517	8.8	88	0.00
79	1,2-dichlorobenzene	4.308	4.521	-4.9	102	0.00
80	n-butylbenzene	6.904	7.015	-1.6	95	0.00
81 C	1,2,4-trichlorobenzene	3.701	4.291	-15.9	102	0.00
82	naphthalene	7.953	8.598	-8.1	96	0.00
83	1,2,3-trichlorobenzene	3.667	3.886	-6.0	96	0.00
84 C	hexachlorobutadiene	3.198	3.328	-4.1	98	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	190624	10.000	ppbV	0.00
Standard Area = 188893			Recovery =	100.92%		
33) 1,4-difluorobenzene	12.54	114	452263	10.000	ppbV	0.00
Standard Area = 444195			Recovery =	101.82%		
51) chlorobenzene-D5	16.89	54	99844	10.000	ppbV	0.00
Standard Area = 100631			Recovery =	99.22%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	11.23	65	117626	9.676	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.76%		
53) toluene-D8	15.22	98	455505	10.301	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.01%		
67) bromofluorobenzene	18.06	95	248504	10.312	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.12%		
Target Compounds						
					Qvalue	
2) propylene	4.31	41	57902M6	4.109	ppbV	
3) dichlorodifluoromethane	4.41	85	133749	5.156	ppbV	97
4) chloromethane	4.64	50	59988	4.470	ppbV	99
5) Freon-114	4.79	85	162582	4.733	ppbV	98
6) vinyl chloride	4.95	62	61279	4.655	ppbV	98
7) 1,3-butadiene	5.16	54	47412	4.923	ppbV	96
8) bromomethane	5.54	94	53493	4.607	ppbV	99
9) chloroethane	5.79	64	29006	4.655	ppbV	100
10) ethanol	6.02	31	236989	22.609	ppbV	99
11) vinyl bromide	6.27	106	54525	4.792	ppbV	100
12) acetone	6.64	43	475445	22.100	ppbV	100
13) trichlorofluoromethane	6.84	101	151672	4.684	ppbV	99
14) isopropyl alcohol	7.01	45	273749	11.499	ppbV	100
15) acrylonitrile	7.25	53	40861M6	3.999	ppbV	
16) 1,1-dichloroethene	7.65	61	110034	4.558	ppbV	99
17) tertiary butyl alcohol	7.81	59	127928	4.170	ppbV	99
18) methylene chloride	7.82	49	86570	4.573	ppbV	97
19) 3-chloropropene	7.97	41	98448	4.206	ppbV	100
20) carbon disulfide	8.15	76	180886	4.512	ppbV	99
21) Freon 113	8.16	101	132452	4.709	ppbV	99
22) Halothane	8.74	117	91374	4.152	ppbV	99
23) trans-1,2-dichloroethene	8.98	61	96058	4.214	ppbV	98
24) 1,1-dichloroethane	9.21	63	121881	4.636	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	9.31	73	168286	4.684	ppbV	100
26) vinyl acetate	9.41	43	155229	5.131	ppbV	99
27) 2-butanone	9.71	43	156075	4.664	ppbV	99
28) cis-1,2-dichloroethene	10.19	61	104687	5.090	ppbV	99
29) Ethyl Acetate	10.47	61	20299	4.662	ppbV	97
30) chloroform	10.53	83	138463	4.732	ppbV	99
31) Tetrahydrofuran	11.01	42	75978M6	4.152	ppbV	
32) 1,2-dichloroethane	11.35	62	95789	4.614	ppbV	100
34) hexane	10.42	57	97196	4.344	ppbV	95
36) 1,1,1-trichloroethane	11.64	97	142867	4.634	ppbV	99
37) benzene	12.15	78	184465	4.330	ppbV	99
38) carbon tetrachloride	12.32	117	152857	4.644	ppbV	99
39) cyclohexane	12.46	56	104196	4.317	ppbV	99
40) dibromomethane	13.04	93	77994	4.069	ppbV	99
41) 1,2-dichloropropane	13.06	63	77685	4.697	ppbV	99
42) bromodichloromethane	13.29	83	158196M6	4.580	ppbV	
43) 1,4-dioxane	13.36	88	43446	4.688	ppbV	98
44) trichloroethene	13.33	130	93222	4.737	ppbV	99
45) 2,2,4-trimethylpentane	13.36	57	333725	4.587	ppbV	99
46) heptane	13.65	43	135736	4.485	ppbV	100
47) cis-1,3-dichloropropene	14.29	75	428195M6	4.850	ppbV	
48) 4-methyl-2-pentanone	14.34	43	197799	4.692	ppbV	97
49) trans-1,3-dichloropropene	14.86	75	128231	4.270	ppbV	99
50) 1,1,2-trichloroethane	15.05	97	108373	4.796	ppbV	98
52) toluene	15.32	91	319589	4.584	ppbV	100
54) 2-hexanone	15.57	43	259551	5.395	ppbV #	96
55) dibromochloromethane	15.74	129	204557	4.892	ppbV	100
56) 1,2-dibromoethane	15.96	107	174575	5.006	ppbV	100
57) tetrachloroethene	16.36	166	147131	4.887	ppbV	99
58) 1,1,1,2-tetrachloroethane	16.91	131	104592	4.518	ppbV	98
59) chlorobenzene	16.93	112	204104	4.948	ppbV	98
60) ethylbenzene	17.22	91	308836	4.932	ppbV	99
61) m+p-xylene	17.36	91	481196	9.935	ppbV	100
62) bromoform	17.44	173	155572	5.000	ppbV	99
63) styrene	17.64	104	188380	5.122	ppbV	99
64) 1,1,2,2-tetrachloroethane	17.72	83	193734	4.984	ppbV	100
65) o-xylene	17.72	91	251700	4.942	ppbV	98
66) 1,2,3-trichloropropane	17.81	75	141368	4.555	ppbV	98
68) isopropylbenzene	18.16	105	320171	4.765	ppbV	99
69) bromobenzene	18.24	77	174340	4.597	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
 Data File : R238834.D
 Acq On : 8 Feb 2016 9:05 am
 Operator : AIRPIAN02:MR
 Sample : CT015-SIMSTD5.0
 Misc : WG863731
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\R238826.D
 Sub List : Default - All compounds listed

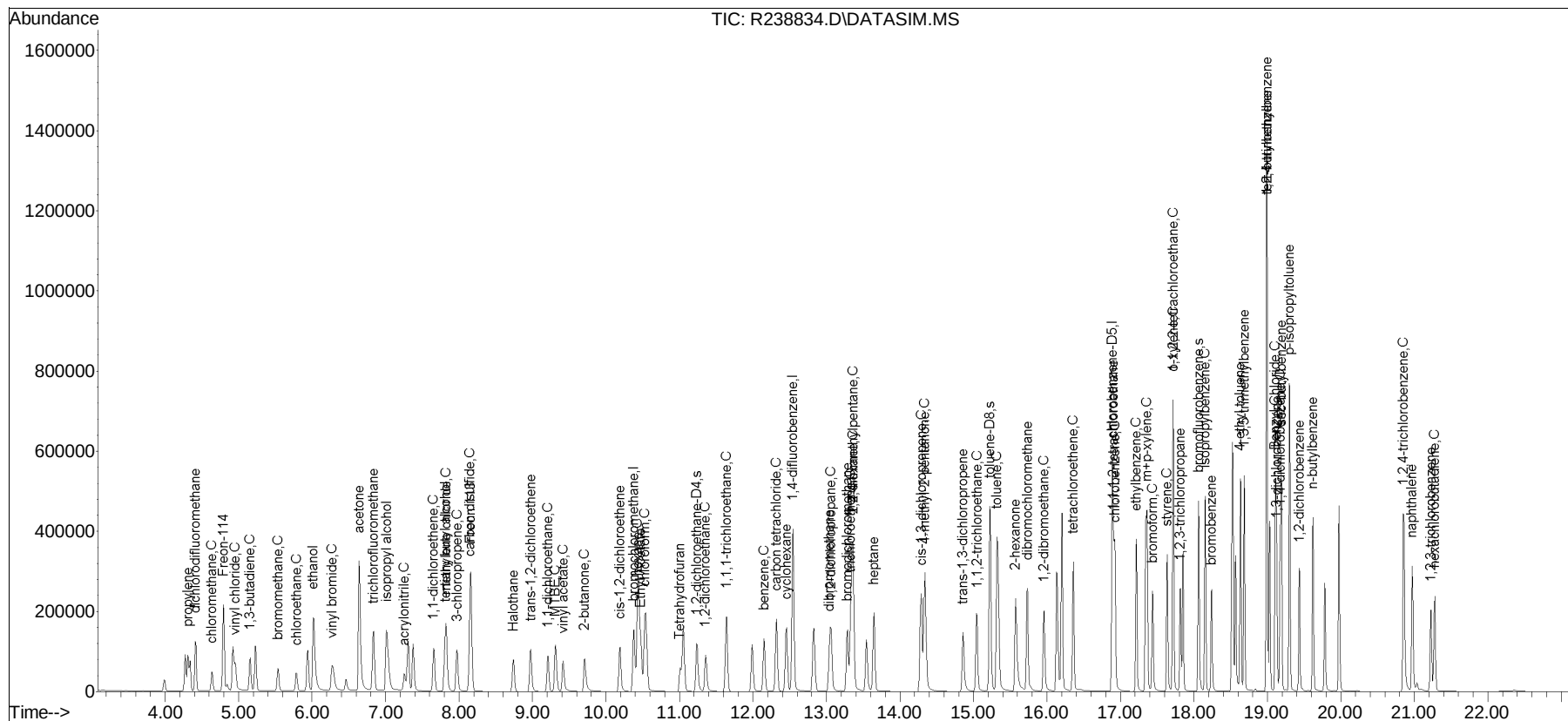
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.63	105	339574M4	4.832	ppbV	
71) 1,3,5-trimethylbenzene	18.68	105	300626	4.838	ppbV	99
72) tert-butylbenzene	18.99	119	279069	4.687	ppbV	100
73) 1,2,4-trimethylbenzene	18.99	105	297183	5.196	ppbV	98
74) Benzyl Chloride	19.11	91	284362	5.147	ppbV	99
75) 1,3-dichlorobenzene	19.13	146	230594	5.440	ppbV	99
76) 1,4-dichlorobenzene	19.17	146	237319	5.125	ppbV	97
77) sec-butylbenzene	19.19	105	398716	4.742	ppbV	99
78) p-isopropyltoluene	19.30	119	325329	4.560	ppbV	98
79) 1,2-dichlorobenzene	19.44	146	225714	5.247	ppbV	98
80) n-butylbenzene	19.62	91	350215	5.081	ppbV	98
81) 1,2,4-trichlorobenzene	20.85	180	214207	5.796	ppbV	97
82) naphthalene	20.97	128	429251	5.406	ppbV	99
83) 1,2,3-trichlorobenzene	21.23	180	193975	5.297	ppbV	99
84) hexachlorobutadiene	21.28	225	166118	5.202	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed0207SIM_ICAL\R238826.D

Data Path : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\
Data File : R238834.D
Acq On : 8 Feb 2016 9:05 am
Operator : AIRPIANO2:MR
Sample : CT015-SIMSTD5.0
Misc : WG863731
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 09 11:36:12 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160207SIM_ICAL\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration



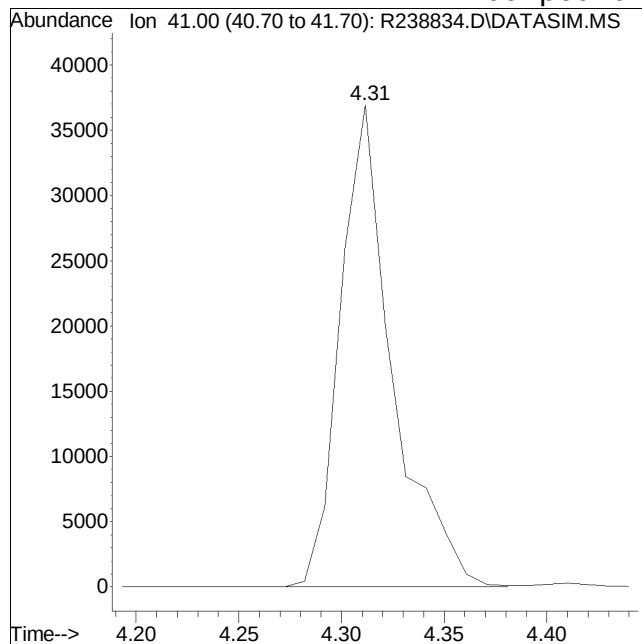
TSIM160207.M Tue Feb 09 11:36:27 2016

Page: 4

Manual Integration/Negative Proof Report

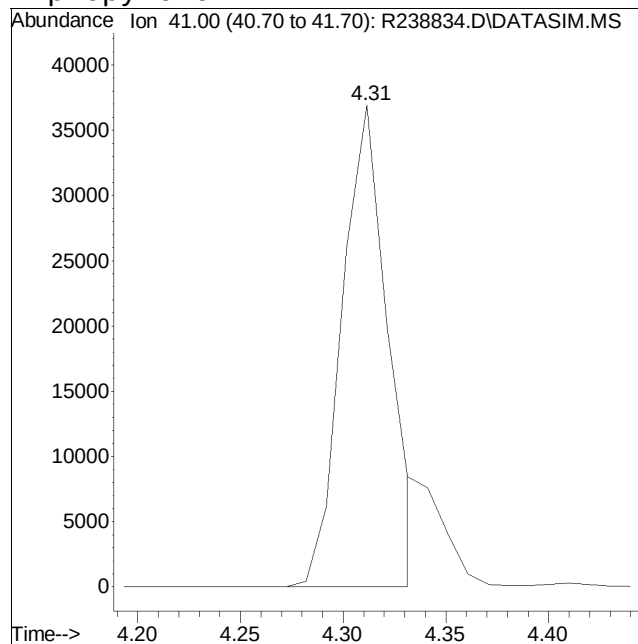
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #2: propylene



Original Peak Response = 65576

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

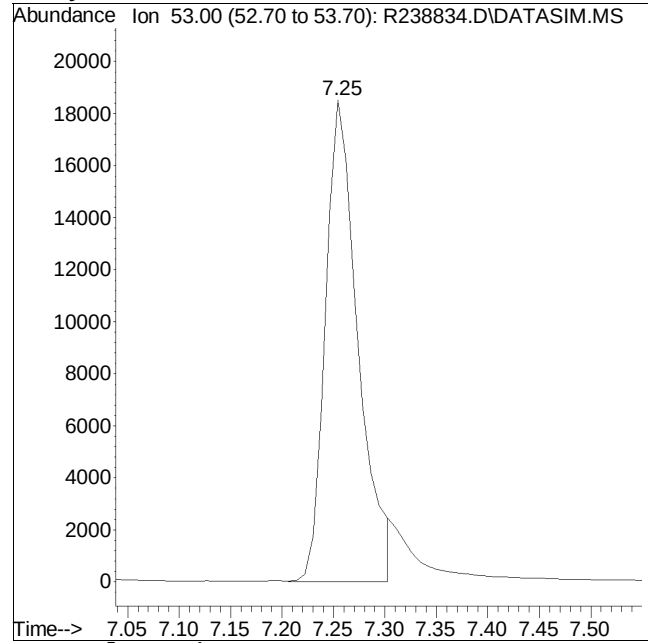
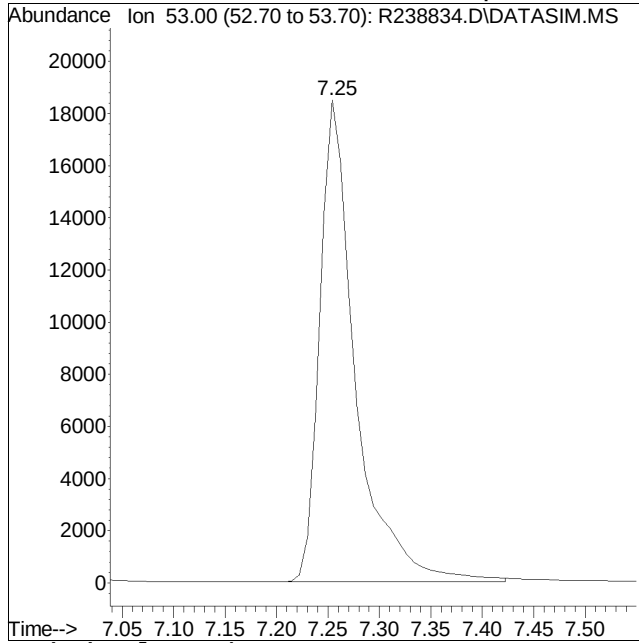


Manual Peak Response = 57902 M6

Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #15: acrylonitrile

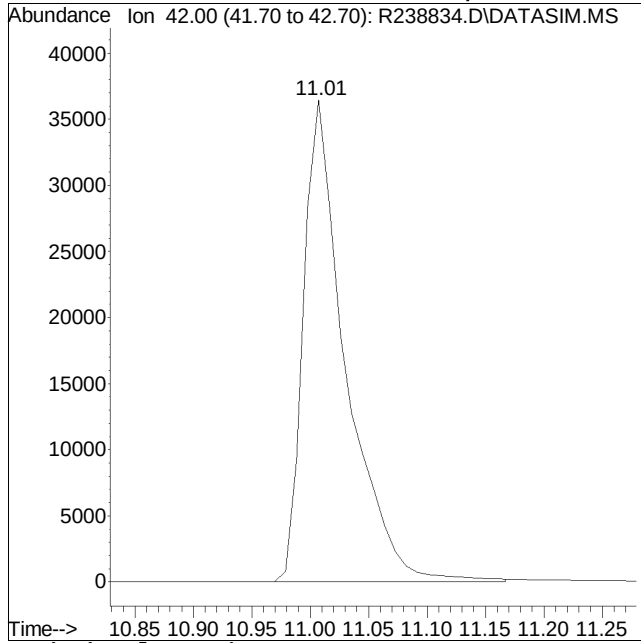


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

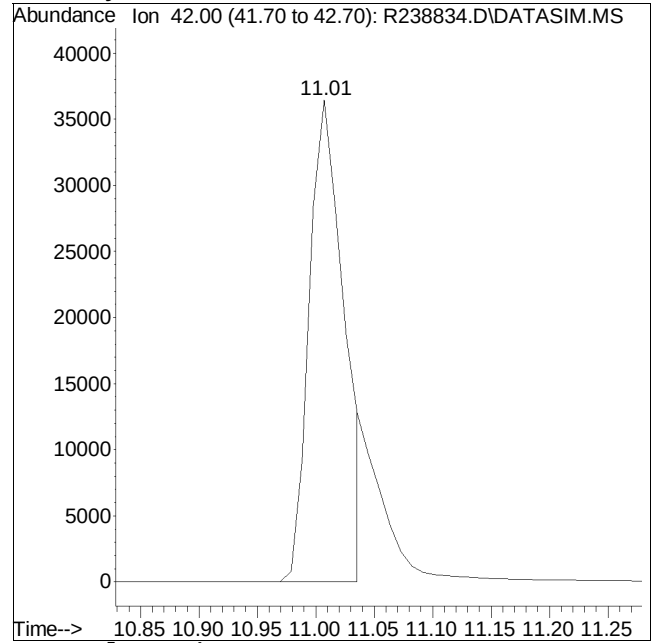
Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #31: Tetrahydrofuran



Original Peak Response = 91928

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

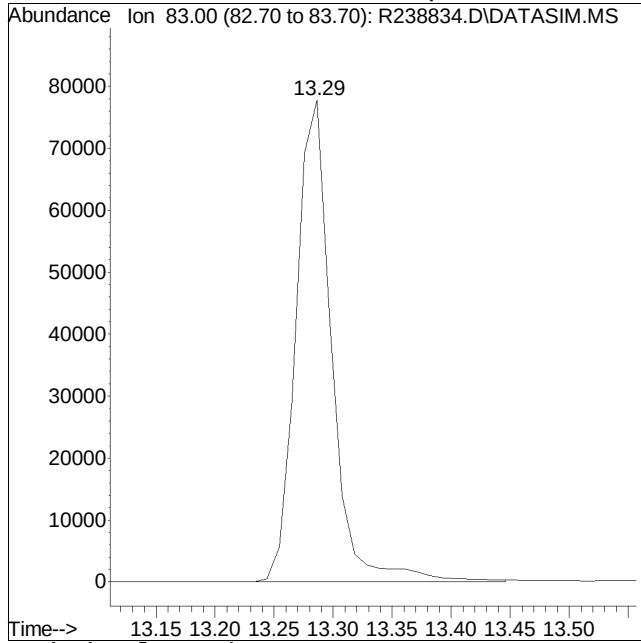


Manual Peak Response = 75978 M6

Manual Integration/Negative Proof Report

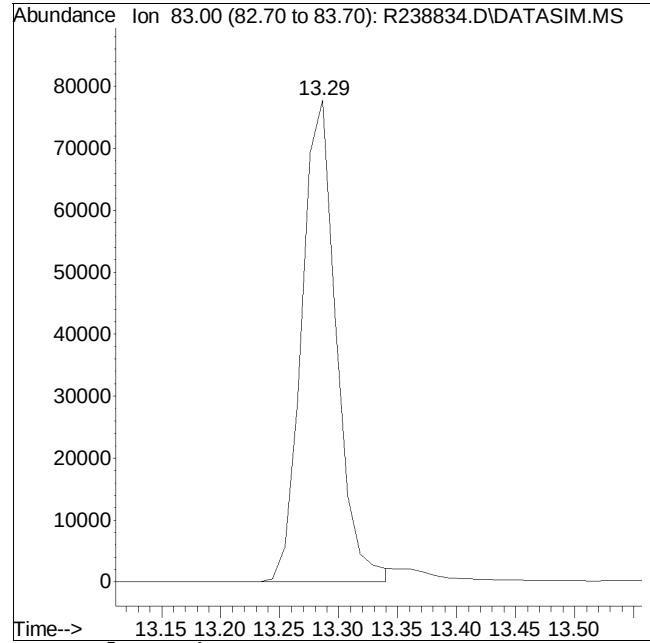
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #42: bromodichloromethane



Original Peak Response = 164277

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

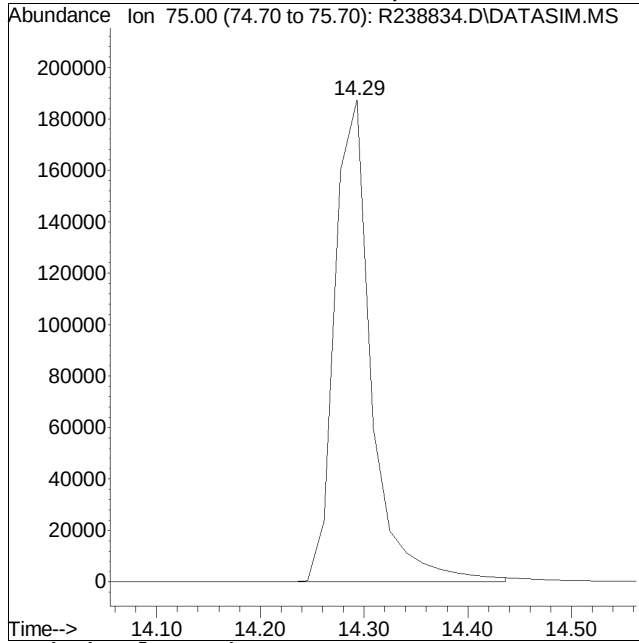


Manual Peak Response = 158196 M6

Manual Integration/Negative Proof Report

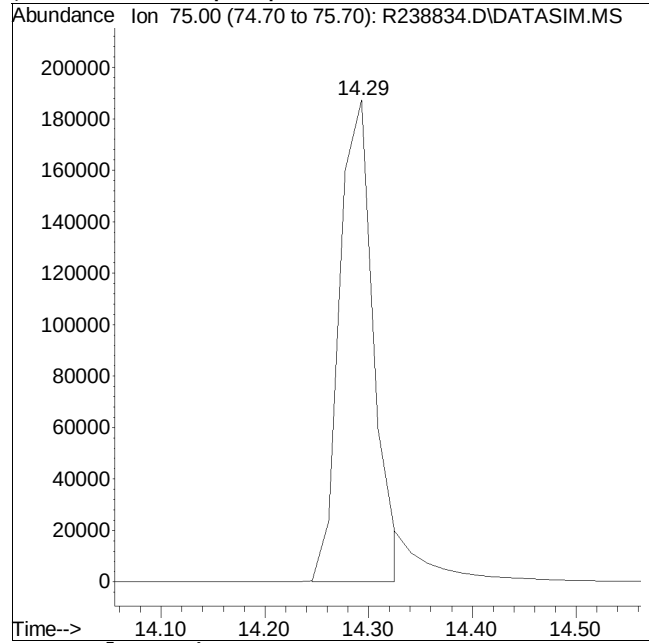
Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 460804

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

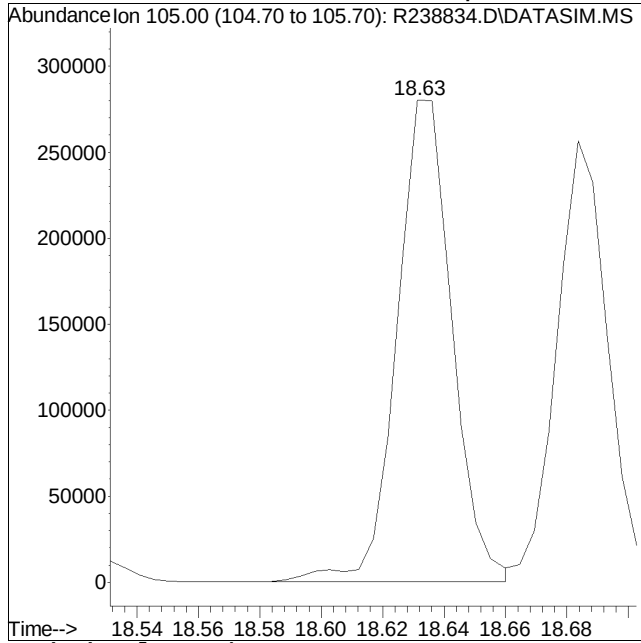


Manual Peak Response = 428195 M6

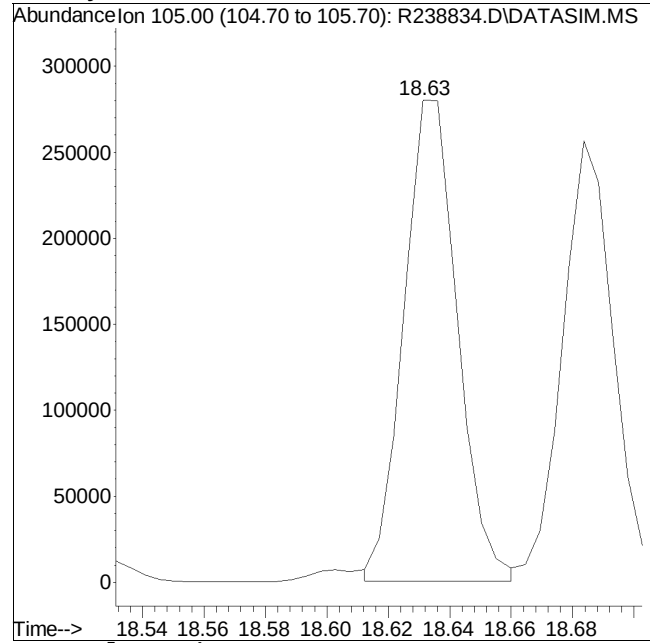
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R238834.D Operator : AIRPIAN02:MR
Date Inj'd : 2/8/2016 9:05 am Instrument : Air Piano 2
Sample : CT015-SIMSTD5.0 Quant Date : 2/9/2016 11:36 am

Compound #70: 4-ethyl toluene



Original Peak Response = 350200



Manual Peak Response = 339574 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Continuing Calibration Form 7

Client	: Langan Engineering & Environmental	Lab Number	: L1604136
Project Name	: 450 UNION STREET	Project Number	: 170301202
Instrument ID	: AIRPIANO2	Calibration Date	: 02/19/16 14:51
Lab File ID	: R239088	Init. Calib. Date(s)	: 02/07/16 02/08/16
Sample No	: WG866814-2	Init. Calib. Times	: 21:59 03:03
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	0	0	30	90	0
vinyl chloride	0.691	0.622	0	10	30	86	0
1,1-dichloroethene	1.266	1.155	0	8.8	30	88	0
cis-1,2-dichloroethene	1.079	1.105	0	-2.4	30	97	0
1,4-difluorobenzene	1	1	0	0	30	98	0
1,1,1-trichloroethane	0.682	0.591	0	13.3	30	93	0
carbon tetrachloride	0.728	0.633	0	13	30	91	0
trichloroethene	0.435	0.408	0	6.2	30	97	0
chlorobenzene-D5	1	1	0	0	30	89	0
tetrachloroethene	3.015	3.132	0	-3.9	30	97	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239088.D
 Acq On : 19 Feb 2016 2:51 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-2,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	90	0.00
6 C	vinyl chloride	0.691	0.622	10.0	86	0.00
16 C	1,1-dichloroethene	1.266	1.155	8.8	88	0.00
28	cis-1,2-dichloroethene	1.079	1.105	-2.4	97	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00
36 C	1,1,1-trichloroethane	0.682	0.591	13.3	93	0.00
38 C	carbon tetrachloride	0.728	0.633	13.0	91	0.00
44 C	trichloroethene	0.435	0.408	6.2	97	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	89	0.00
57 C	tetrachloroethene	3.015	3.132	-3.9	97	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239088.D
 Acq On : 19 Feb 2016 2:51 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-2,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	169202	10.000	ppbV	0.00
33) 1,4-difluorobenzene	12.54	114	436800	10.000	ppbV	0.00
51) chlorobenzene-D5	16.89	54	89882	10.000	ppbV	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.96	62	52622	4.503	ppbV	100
16) 1,1-dichloroethene	7.65	61	97681	4.559	ppbV	97
28) cis-1,2-dichloroethene	10.19	61	93472	5.120	ppbV	95
36) 1,1,1-trichloroethane	11.64	97	129176	4.339	ppbV	99
38) carbon tetrachloride	12.32	117	138199	4.348	ppbV	99
44) trichloroethene	13.33	130	89091	4.688	ppbV	98
57) tetrachloroethene	16.36	166	140749	5.194	ppbV	96

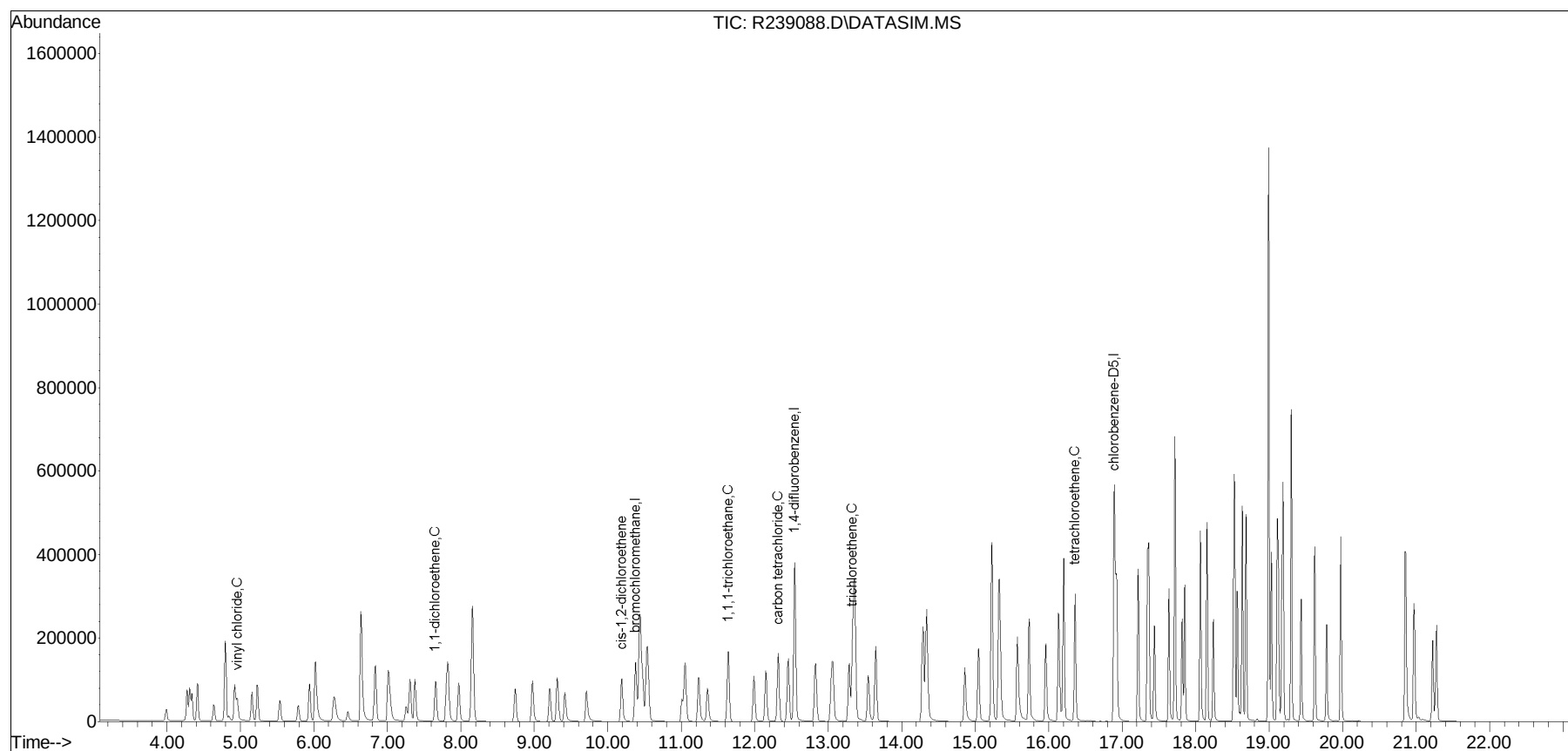
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239088.D
 Acq On : 19 Feb 2016 2:51 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-2,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Sub List : 7-NY-SIM - .



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R239088.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 2:51 pm Instrument : Air Piano 2
Sample : WG866814-2,3,250,250 Quant Date : 2/19/2016 3:15 pm

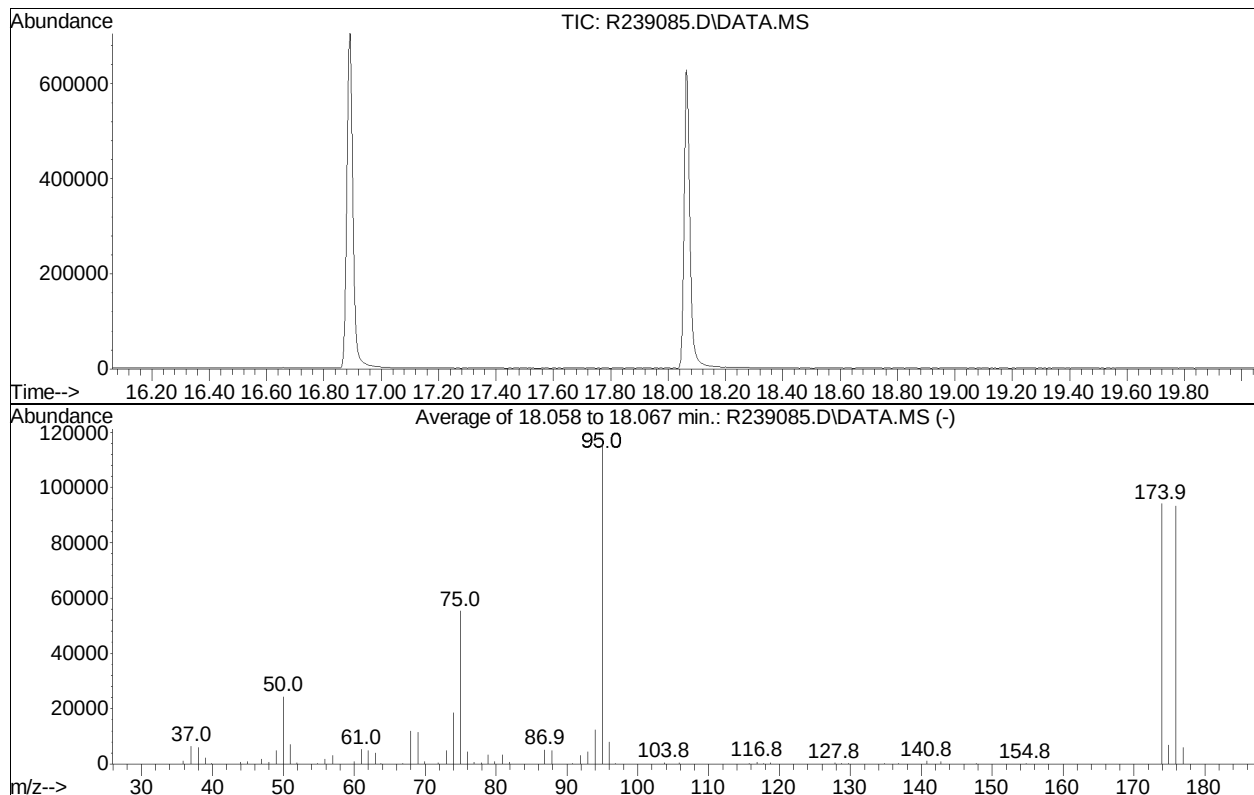
There are no manual integrations or false positives in this file.

BFB

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239085.D
 Acq On : 19 Feb 2016 1:04 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-1,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Tue Feb 09 11:35:28 2016



AutoFind: Scans 1777, 1778, 1779; Background Corrected with Scan 1770

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.1	24413	PASS
75	95	30	66	47.9	55261	PASS
95	95	100	100	100.0	115472	PASS
96	95	5	9	7.0	8026	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.7	94304	PASS
175	174	4	9	7.4	6981	PASS
176	174	93	101	98.8	93216	PASS
177	176	5	9	6.6	6139	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239089.D
 Acq On : 19 Feb 2016 4:28 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-4,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:58:03 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.37	49	163282	10.000	ppbV	0.00
Standard Area = 169202			Recovery =		96.50%	
33) 1,4-difluorobenzene	12.54	114	425096	10.000	ppbV	# 0.00
Standard Area = 436800			Recovery =		97.32%	
51) chlorobenzene-D5	16.89	54	83734	10.000	ppbV	0.00
Standard Area = 89882			Recovery =		93.16%	

System Monitoring Compounds

Target Compounds				Qvalue
6) vinyl chloride	4.95	0	N.D.	
16) 1,1-dichloroethene	7.66	0	N.D.	
28) cis-1,2-dichloroethene	10.19	0	N.D.	
36) 1,1,1-trichloroethane	11.61	0	N.D.	
38) carbon tetrachloride	12.31	0	N.D.	
44) trichloroethene	13.33	0	N.D.	
57) tetrachloroethene	16.36	0	N.D.	

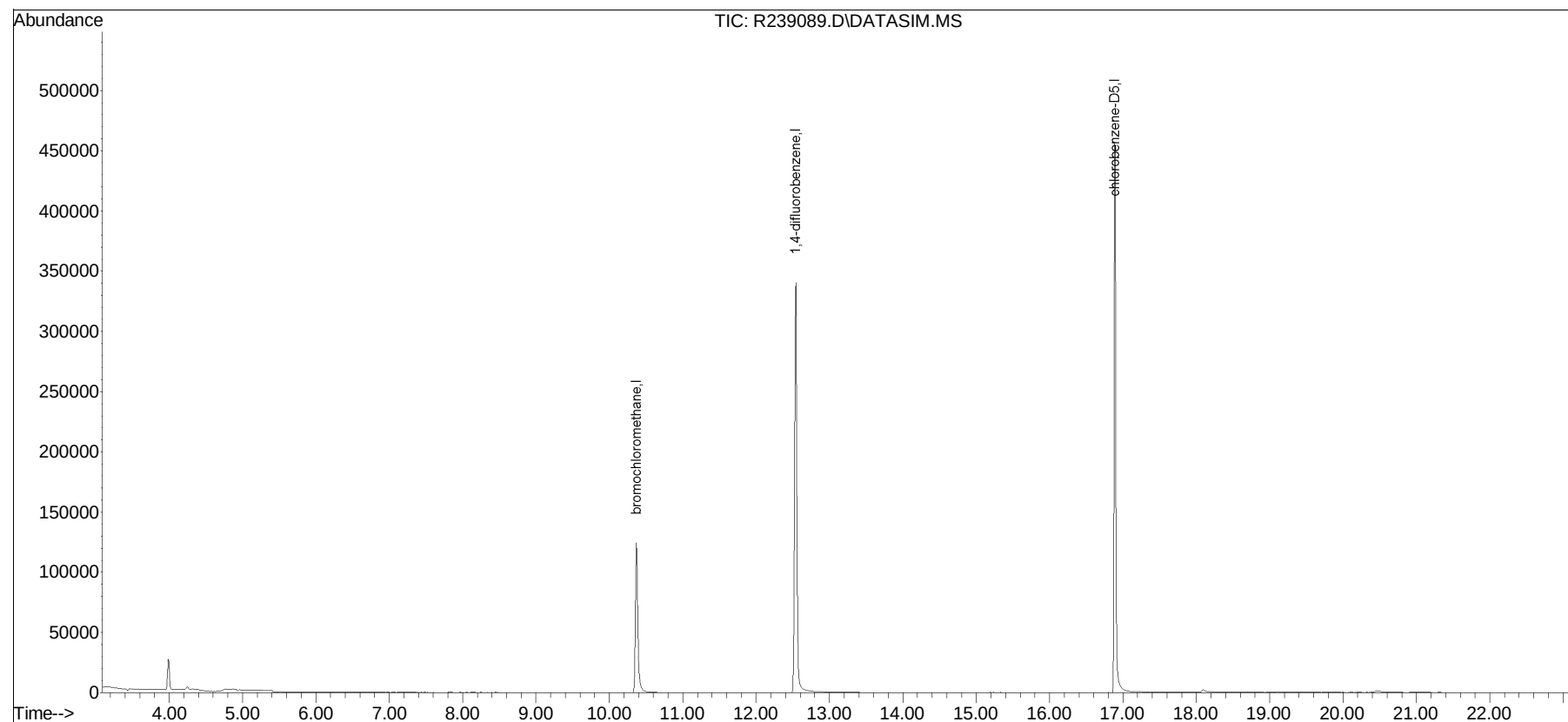
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
Data File : R239089.D
Acq On : 19 Feb 2016 4:28 pm
Operator : AIRPIAN02:RY
Sample : WG866814-4,3,250,250
Misc : WG866814,ICAL12011
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 19 16:58:03 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration

Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R239089.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 4:28 pm Instrument : Air Piano 2
Sample : WG866814-4,3,250,250 Quant Date : 2/19/2016 4:58 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239088.D
 Acq On : 19 Feb 2016 2:51 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-3,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	90	0.00
6 C	vinyl chloride	5.000	4.503	9.9	86	0.00
16 C	1,1-dichloroethene	5.000	4.559	8.8	88	0.00
28	cis-1,2-dichloroethene	5.000	5.120	-2.4	97	0.00
33 I	1,4-difluorobenzene	10.000	10.000	0.0	98	0.00
36 C	1,1,1-trichloroethane	5.000	4.339	13.2	93	0.00
38 C	carbon tetrachloride	5.000	4.348	13.0	91	0.00
44 C	trichloroethene	5.000	4.688	6.2	97	0.00
51 I	chlorobenzene-D5	10.000	10.000	0.0	89	0.00
57 C	tetrachloroethene	5.000	5.194	-3.9	97	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239088.D
 Acq On : 19 Feb 2016 2:51 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-3,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	10.38	49	169202	10.000	ppbV	0.00
Standard Area = 169202			Recovery	=	100.00%	
33) 1,4-difluorobenzene	12.54	114	436800	10.000	ppbV	0.00
Standard Area = 436800			Recovery	=	100.00%	
51) chlorobenzene-D5	16.89	54	89882	10.000	ppbV	0.00
Standard Area = 89882			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.96	62	52622	4.503	ppbV	100
16) 1,1-dichloroethene	7.65	61	97681	4.559	ppbV	97
28) cis-1,2-dichloroethene	10.19	61	93472	5.120	ppbV	95
36) 1,1,1-trichloroethane	11.64	97	129176	4.339	ppbV	99
38) carbon tetrachloride	12.32	117	138199	4.348	ppbV	99
44) trichloroethene	13.33	130	89091	4.688	ppbV	98
57) tetrachloroethene	16.36	166	140749	5.194	ppbV	96

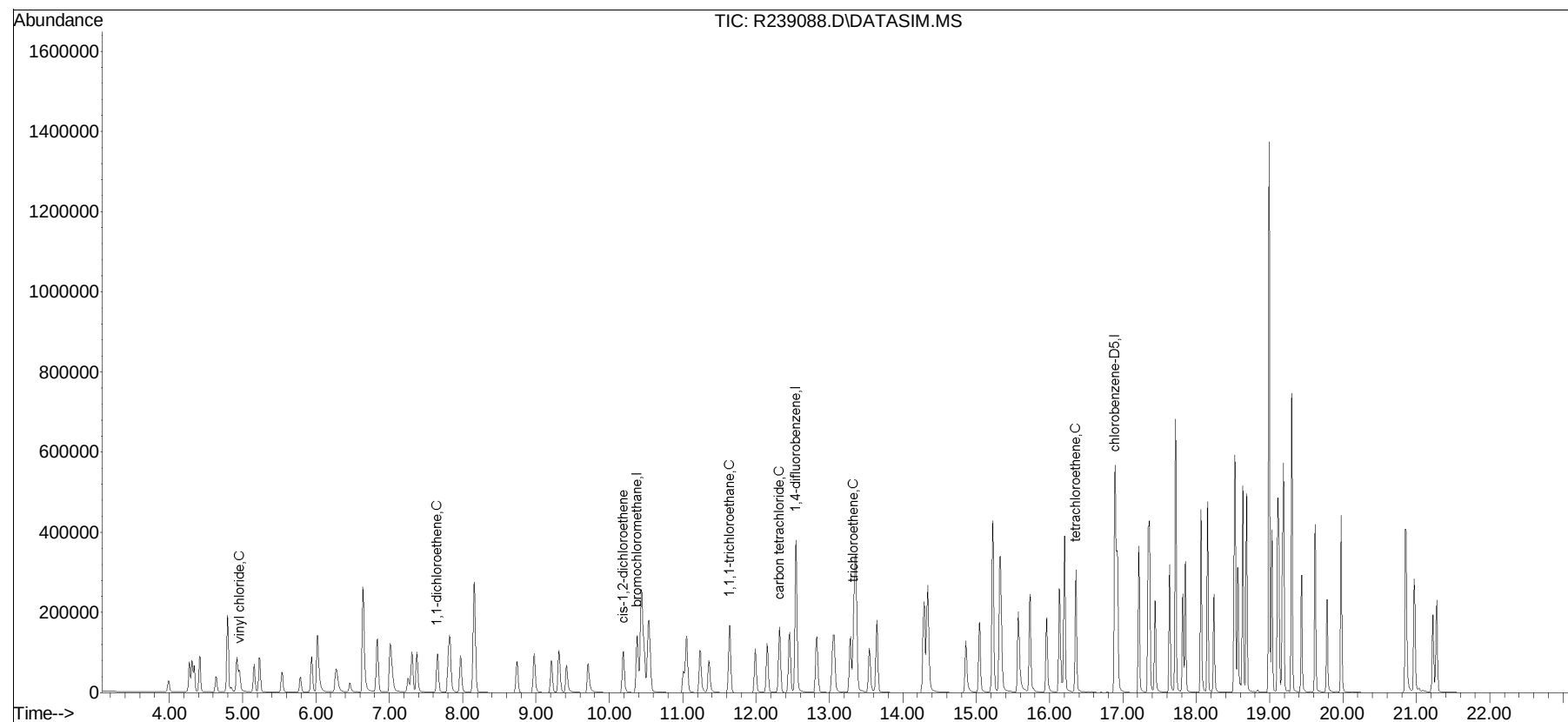
(#) = qualifier out of range (m) = manual integration (+) = signals summed

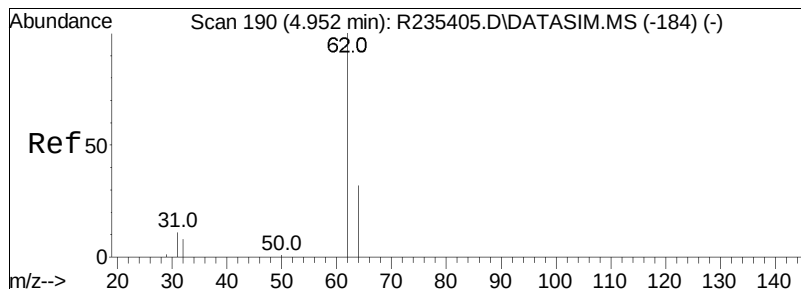
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
Data File : R239088.D
Acq On : 19 Feb 2016 2:51 pm
Operator : AIRPIAN02:RY
Sample : WG866814-3,3,250,250
Misc : WG866814,ICAL12011
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 19 15:15:37 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration

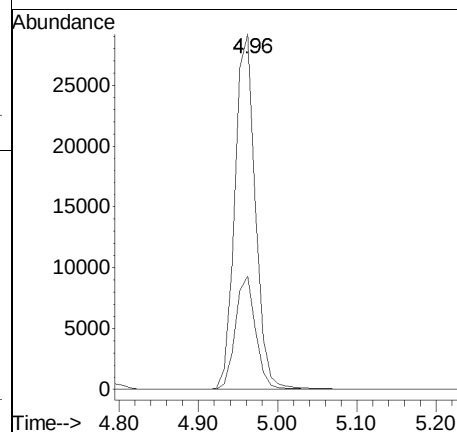
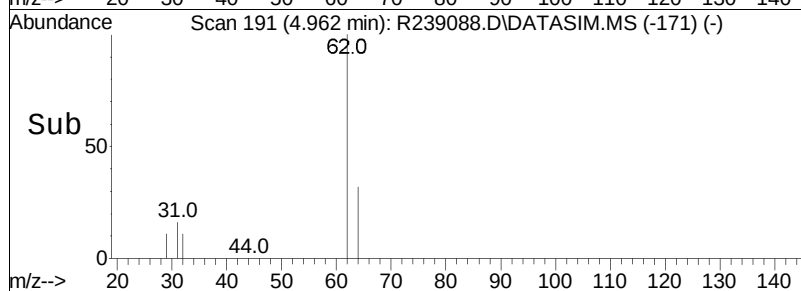
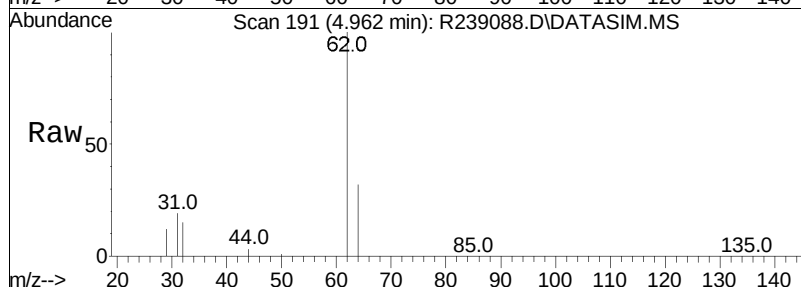
Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D

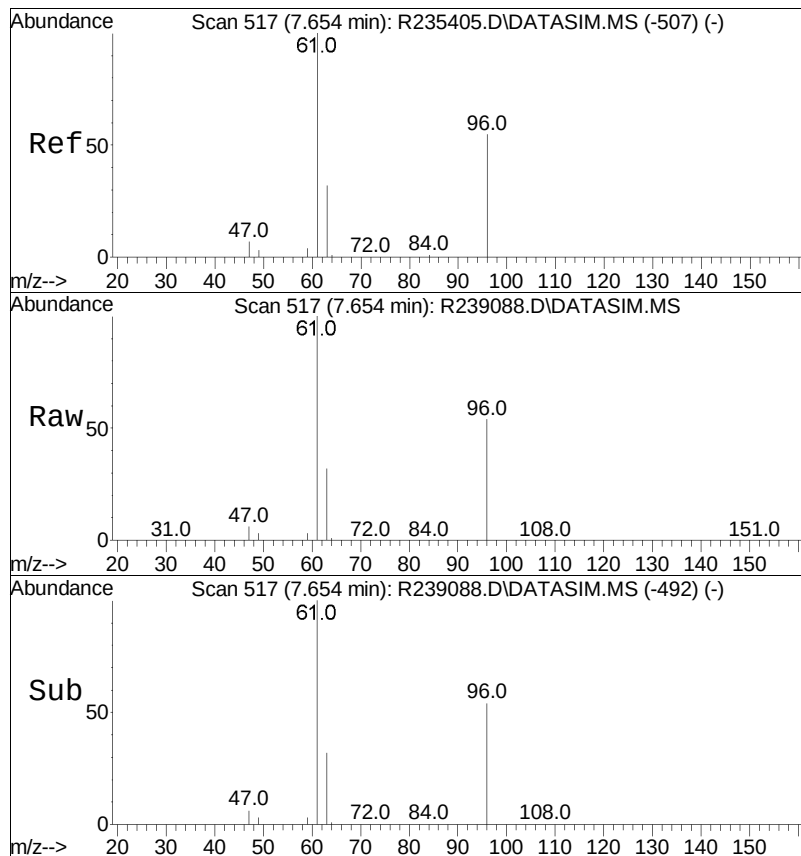




#6
vinyl chloride
Concen: 4.50 ppbV
RT: 4.96 min Scan# 191
Delta R.T. -0.000 min
Lab File: R239088.D
Acq: 19 Feb 2016 2:51 pm

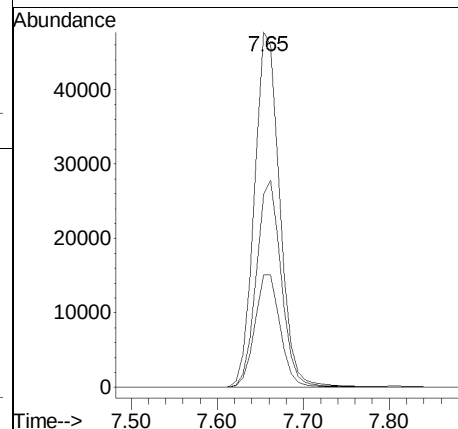
Tgt Ion: 62 Resp: 52622
Ion Ratio Lower Upper
62 100
64 31.9 25.5 38.3

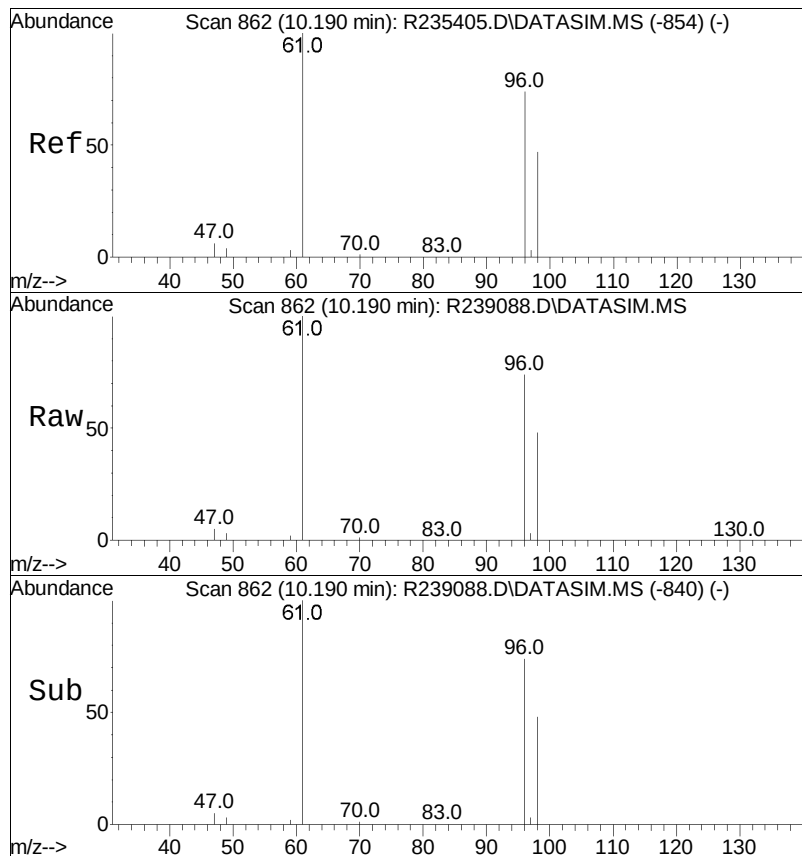




#16
 1,1-dichloroethene
 Concen: 4.56 ppbV
 RT: 7.65 min Scan# 517
 Delta R.T. -0.000 min
 Lab File: R239088.D
 Acq: 19 Feb 2016 2:51 pm

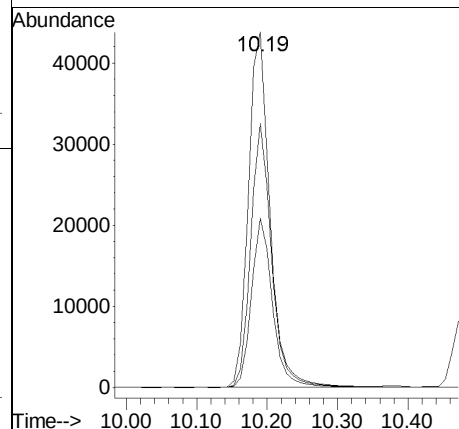
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	97681		
96	54.3		41.0	61.6
63	31.7		25.2	37.8

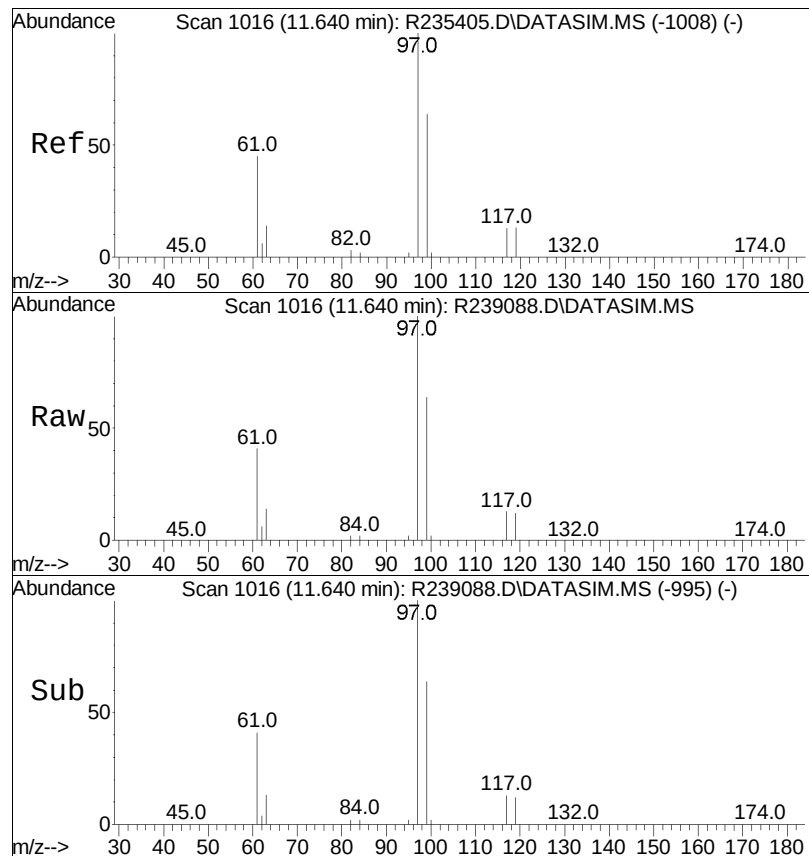




#28
 cis-1,2-dichloroethene
 Concen: 5.12 ppbV
 RT: 10.19 min Scan# 862
 Delta R.T. -0.000 min
 Lab File: R239088.D
 Acq: 19 Feb 2016 2:51 pm

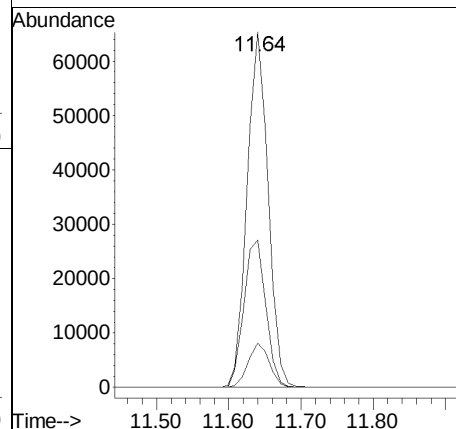
Tgt	Ion: 61	Resp:	93472
Ion	Ratio	Lower	Upper
61	100		
96	74.2	55.8	83.8
98	47.6	36.1	54.1

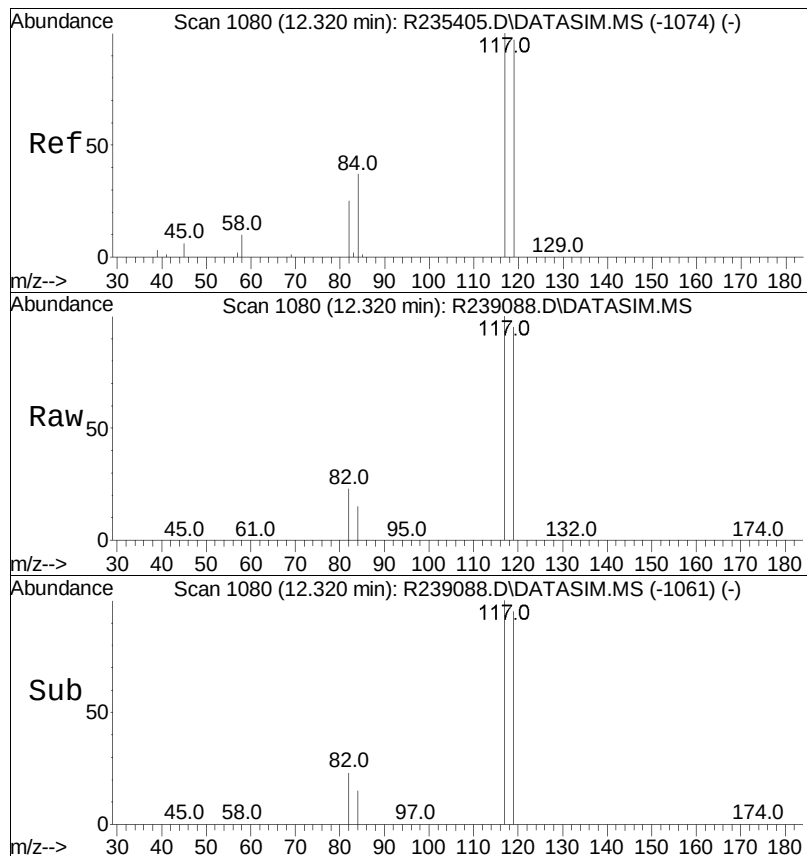




#36
 1,1,1-trichloroethane
 Concen: 4.34 ppbV
 RT: 11.64 min Scan# 1016
 Delta R.T. -0.000 min
 Lab File: R239088.D
 Acq: 19 Feb 2016 2:51 pm

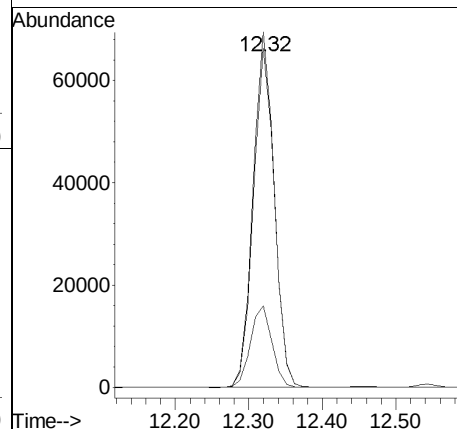
Tgt Ion	Ratio	Lower	Upper
97	100		
61	41.5	34.0	51.0
119	12.5	9.8	14.6

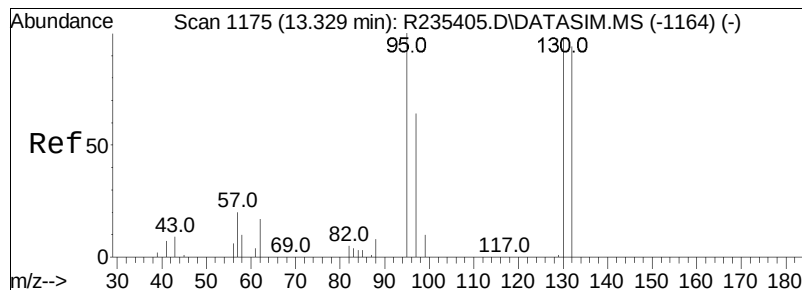




#38
 carbon tetrachloride
 Concen: 4.35 ppbV
 RT: 12.32 min Scan# 1080
 Delta R.T. -0.000 min
 Lab File: R239088.D
 Acq: 19 Feb 2016 2:51 pm

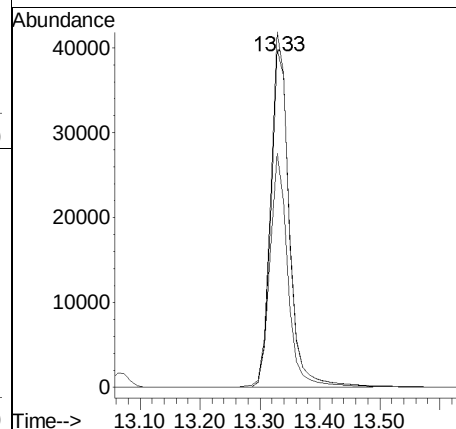
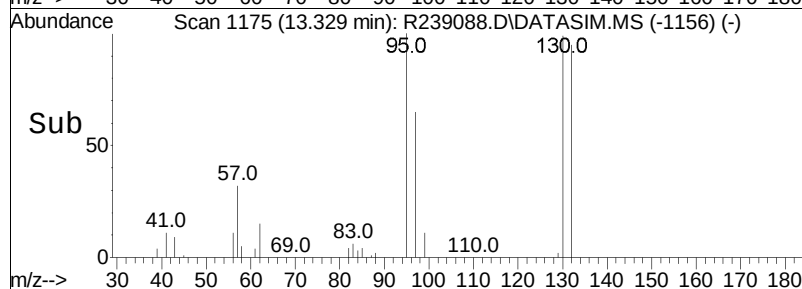
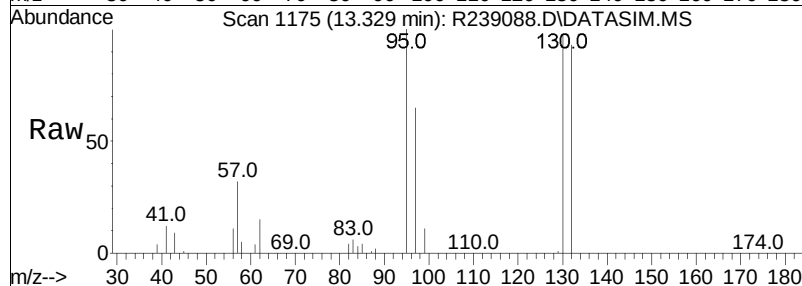
Tgt Ion:	117	Resp:	138199
Ion Ratio	Lower	Upper	
117	100		
119	95.4	76.6	114.8
82	23.0	19.3	28.9

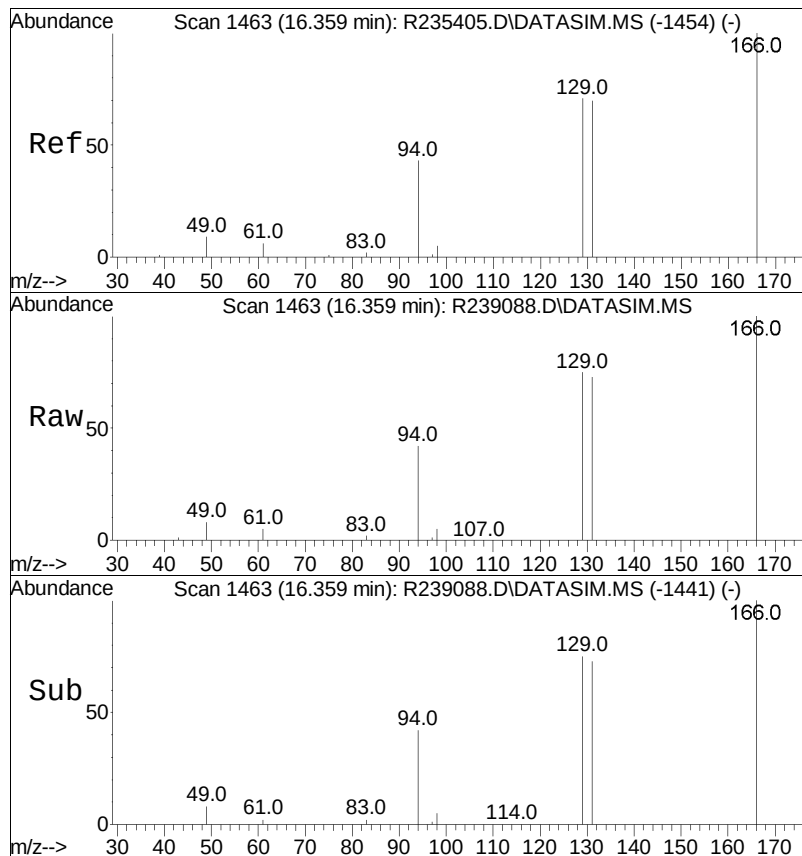




#44
trichloroethene
Concen: 4.69 ppbV
RT: 13.33 min Scan# 1175
Delta R.T. -0.000 min
Lab File: R239088.D
Acq: 19 Feb 2016 2:51 pm

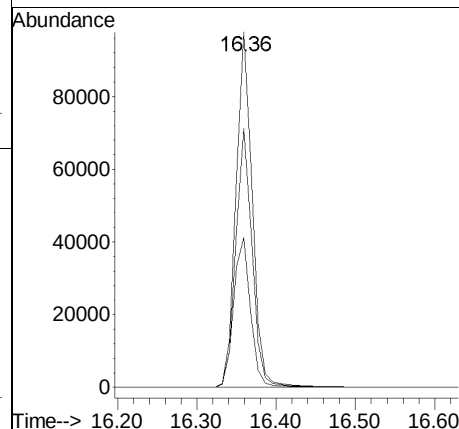
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	89091		
132	95.0		76.6	115.0
97	65.9		55.3	82.9





#57
 tetrachloroethene
 Concen: 5.19 ppbV
 RT: 16.36 min Scan# 1463
 Delta R.T. -0.000 min
 Lab File: R239088.D
 Acq: 19 Feb 2016 2:51 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	72.9	60.2	90.2
94	42.2	37.3	55.9



Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\AIR2\2016QMethod : TSIM160207.M
Data File : R239088.D Operator : AIRPIAN02:RY
Date Inj'd : 2/19/2016 2:51 pm Instrument : Air Piano 2
Sample : WG866814-3,3,250,250 Quant Date : 2/19/2016 3:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
 Data File : R239092.D
 Acq On : 19 Feb 2016 6:53 pm
 Operator : AIRPIAN02:RY
 Sample : WG866814-5,3,250,250
 Misc : WG866814,ICAL12011
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:08:47 2016
 Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Feb 09 11:35:28 2016
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\AIR2\2016\160219SIM\R239088.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.38	49	159989	10.000	ppbV	0.00
Standard Area = 169202			Recovery =		94.56%	
33) 1,4-difluorobenzene	12.54	114	417537	10.000	ppbV	0.00
Standard Area = 436800			Recovery =		95.59%	
51) chlorobenzene-D5	16.89	54	82079	10.000	ppbV	0.00
Standard Area = 89882			Recovery =		91.32%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	4.96	62	190	0.017	ppbV	90
16) 1,1-dichloroethene	0.00		0	N.D.	d	
28) cis-1,2-dichloroethene	10.19	61	265	0.015	ppbV	87
36) 1,1,1-trichloroethane	11.64		0	N.D.		
38) carbon tetrachloride	12.32	117	1914	0.063	ppbV	97
44) trichloroethene	13.33		0	N.D.		
57) tetrachloroethene	16.36	166	5677	0.229	ppbV	98

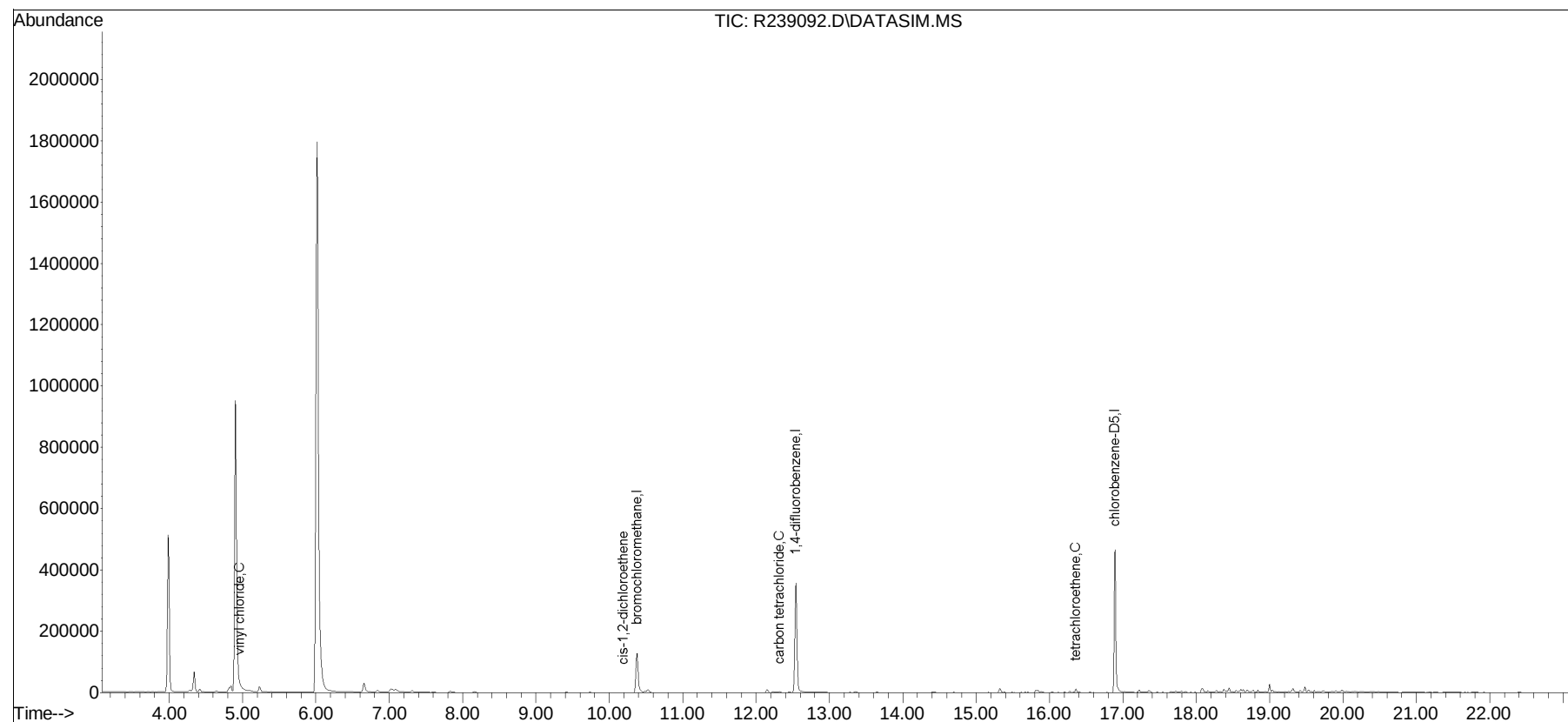
(#) = qualifier out of range (m) = manual integration (+) = signals summed

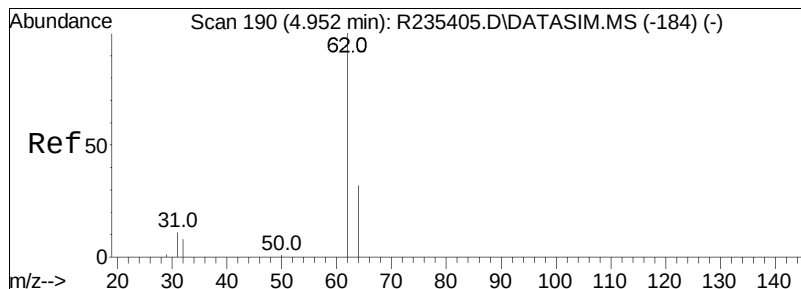
Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AIR2\2016\160219SIM\
Data File : R239092.D
Acq On : 19 Feb 2016 6:53 pm
Operator : AIRPIAN02:RY
Sample : WG866814-5,3,250,250
Misc : WG866814,ICAL12011
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 10:08:47 2016
Quant Method : 0:\Forensics\Data\AIR2\2016\160219SIM\TSIM160207.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Feb 09 11:35:28 2016
Response via : Initial Calibration

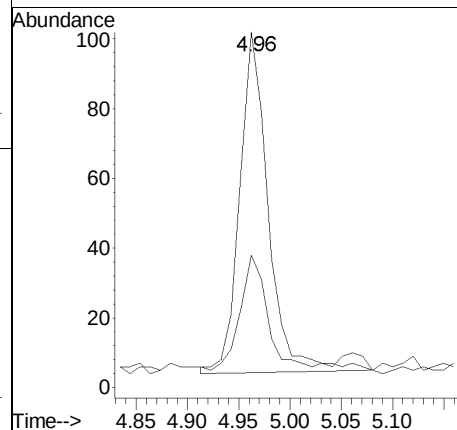
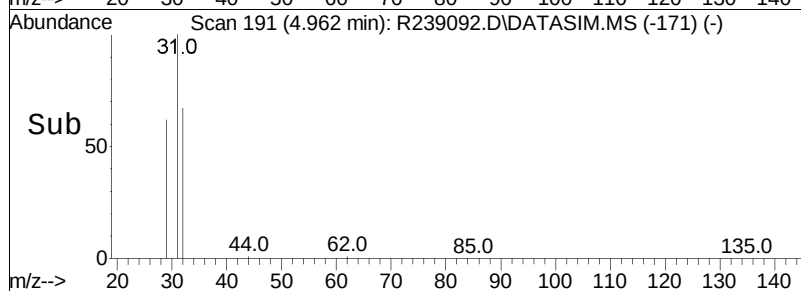
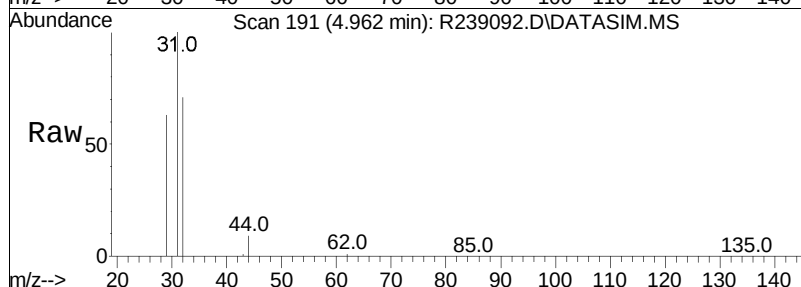
Sub List : 7-NY-SIM - .\Data\AIR2\2016\160219SIM\R239088.D

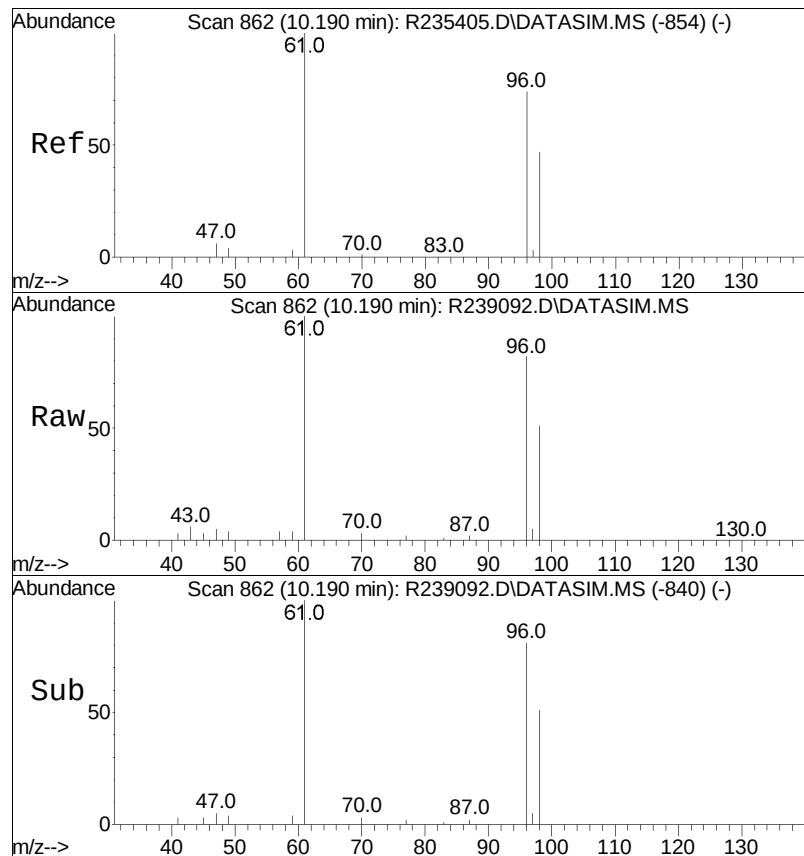




#6
vinyl chloride
Concen: 0.02 ppbV
RT: 4.96 min Scan# 191
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

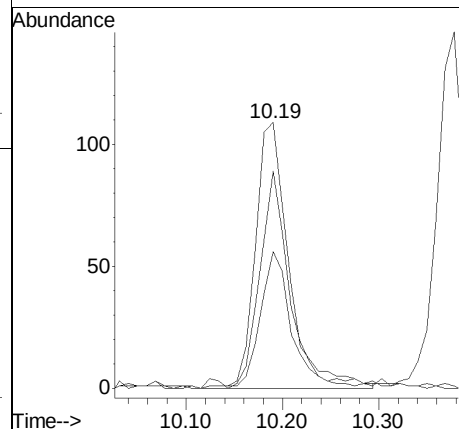
Tgt Ion: 62 Resp: 190
Ion Ratio Lower Upper
62 100
64 37.3 25.5 38.3

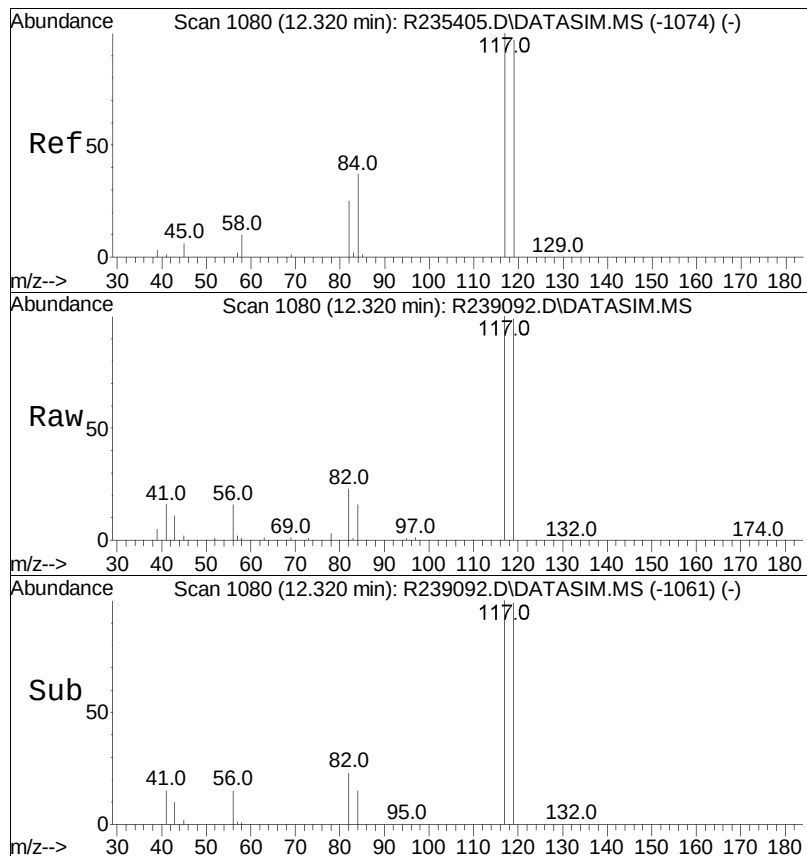




#28
 cis-1,2-dichloroethene
 Concen: 0.02 ppbV
 RT: 10.19 min Scan# 862
 Delta R.T. 0.000 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

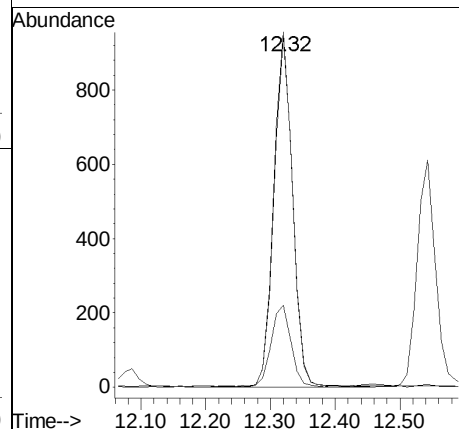
Tgt Ion:	61	Resp:	265
Ion Ratio	Lower	Upper	
61	100		
96	81.7	55.8	83.8
98	51.4	36.1	54.1

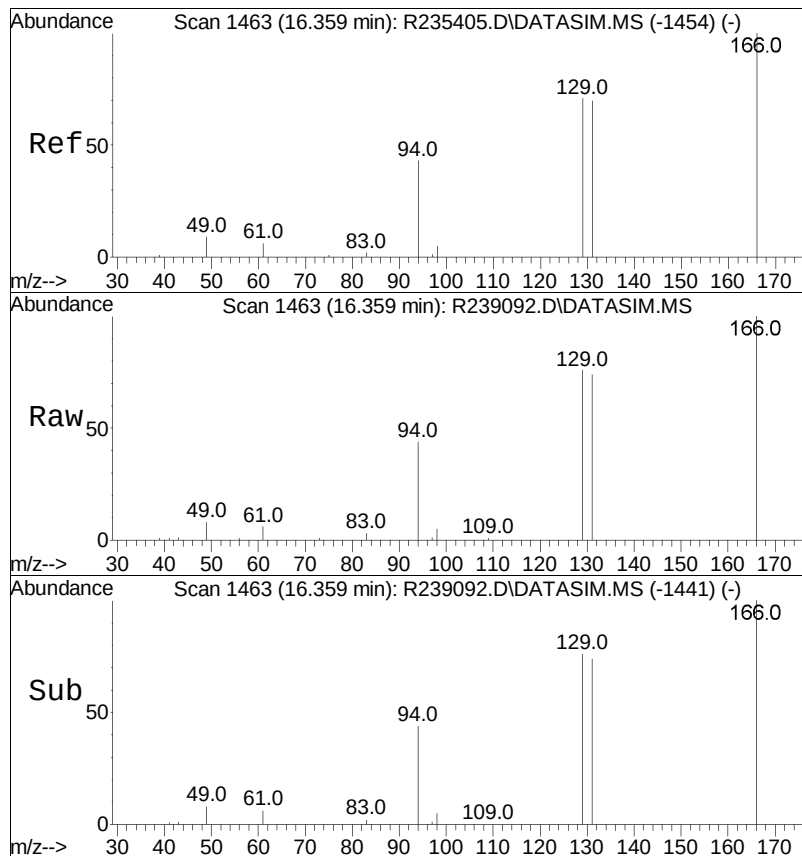




#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 12.32 min Scan# 1080
Delta R.T. 0.000 min
Lab File: R239092.D
Acq: 19 Feb 2016 6:53 pm

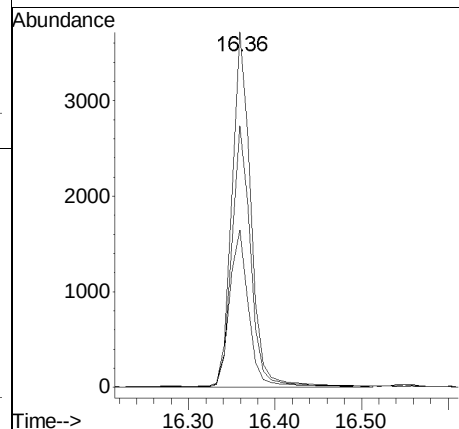
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.6	76.6	114.8
82	23.1	19.3	28.9





#57
 tetrachloroethene
 Concen: 0.23 ppbV
 RT: 16.36 min Scan# 1463
 Delta R.T. 0.000 min
 Lab File: R239092.D
 Acq: 19 Feb 2016 6:53 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
131	73.6	60.2	90.2
94	44.3	37.3	55.9



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\AIR2\2016Q	Method	: TSIM160207.M
Data File	: R239092.D	Operator	: AIRPIAN02:RY
Date Inj'd	: 2/19/2016 6:53 pm	Instrument	: Air Piano 2
Sample	: WG866814-5,3,250,250	Quant Date	: 2/19/2016 11:36 pm

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 22 2016, 10:47 am

Work Group: WG866814 for Department: 3 GC/MS

Created: 19-FEB-16 Due: Operator: ry

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1604136-02	AS01_021416	S T015-SIM	AIR	DONE	U	0315	0223	S0	Can-2.7
L1604136-03	AA01_021416	S T015-SIM	AIR	DONE	U	0315	0223	S0	Can-2.7
L1604136-04	SV06_021416	S T015-SIM	SOIL_VAPOR	DONE	U	0315	0223	S0	Can-2.7
WG866814-1	MS BFB Tune Standard	S T015-SIM	AIR	DONE	U				
WG866814-2	Continuing Calibrati	S T015-SIM	AIR	DONE	U				
WG866814-3	Laboratory Control S	S T015-SIM	AIR	DONE	U				
WG866814-4	Laboratory Method Bl	S T015-SIM	AIR	DONE	U				
WG866814-5	Duplicate Sample	S T015-SIM	AIR	DONE	U				
Comments:									
WG866814-5	L1604136-02								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: CSS15-024/CSS15-01

Date: 02/07/16

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: AR / MB / MR

Sequence File Name: 160207.S

SIM ICAL#	Full Scan ICAL# 12008	TO-12 ICAL#	APH ICAL#				
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA2020701	TO15_SFS	R238819	250mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R238820	SS16-004D 50ML 0.02	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R238821	SS16-004D 100ML 0.04	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R238822	SS16-004D 250ML 0.1	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R238823	SS16-004C 50ML 0.2			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R238824	SS16-004C 125ML 0.5			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R238825	SS16-004C 250ML 1.0			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R238826	SS16-004B1 125ML 5.0			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R238827	SS16-004B1 250ML 10.0			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R238828	SS16-004A 50ML 20.0			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R238829	SS16-004A 125ML 50.0			NA
8	ITO15-LLSTD100.0	TO15_SFS	R238830	SS16-004A 250ML 100.0	FULL SCAN ONLY		NA
1	BA2020701	TO15_SFS	R238831	250ml			NA
		Pause					NA
1	BA2020702	TO15_SFS	R238832	250ml			NA
2	CTO15-LLSTD10	TO15_SFS	R238833	250ml SS15-040B 10.0	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R238834	125ml SS15-040B 5.0	SIM ICV		NA

[illegible]

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

-----SEQUENCE TABLE -----

Sequence Name: C:\Smart\160207TO15_ICAL.SEQ

Date: 02-09-2016

Time: 07:37:41

Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
TA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.02	1	5	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.04	1	5	100	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.1	1	5	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.2	1	6	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD0.5	1	6	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD1.0	1	6	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD5.0	1	7	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD10.0	1	7	250	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD20.0	1	8	50	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD50.0	1	8	125	100	C:\Smart\Alpha-TO15.CTD	12:00
ITO15-SIMSTD100.0	1	8	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020701	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
BA2020702	1	1	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-LLSTD10.0	1	2	250	100	C:\Smart\Alpha-TO15.CTD	12:00
CTO15-SIMSTD5.0	1	2	125	100	C:\Smart\Alpha-TO15.CTD	12:00

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airpiano 2

Internal Standard/Surrogate IDs: CSS15-024/CSS15-001

Date: 02/19/16

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 160219.S

SIM ICAL# 12011

Full Scan ICAL# 12008

TO-12 ICAL#

APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	Leak Check Pass ? Y/N
1	TA2021901	TO15_SFS	R239085	250mL	TUNE		NA
2	CA2021901	TO15_SFS	R239086	SS16-002F 250ML 10.0	CC		NA
3	CTO15-LLSTD10	TO15_SFS	R239087	SS15-040C 250ML 10.0	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS	R239088	SS15-040C 125ML 5.0	SIM LCS		NA
1	BA2021901	TO15_SFS	R239089	250mL	BLANK		NA
1	BA2021902	TO15_SFS	R239090	250mL	DID NOT NEED		NA
1	L1604136-02,3,250,250	TO15_SFS	R239091	WG866471,ICAL12008		NY/ 7 SIM	Y
1	L1604136-02DUP,3,250,250	TO15_SFS	R239092	WG866471,ICAL12008	TO15-LL/ SIM DUP	NY/ 7 SIM	Y
2	L1604136-03,3,250,250	TO15_SFS	R239093	WG866471,ICAL12008		NY/ 7 SIM	Y
3	L1604136-01,3,250,250	TO15_SFS	R239094	WG866471,ICAL12008		NY	Y
4	L1604136-04D,3,25,250	TO15_SFS	R239095	WG866471,ICAL12008		NY	Y
5	L1604136-05,3,250,250	TO15_SFS	R239096	WG866471,ICAL12008		NY	Y
6	L1604136-06,3,250,250	TO15_SFS	R239097	WG866471,ICAL12008		NY	Y
7	L1604136-07,3,250,250	TO15_SFS	R239098	WG866471,ICAL12008		NY	Y
8	L1604136-08D,3,125,250	TO15_SFS	R239099	WG866471,ICAL12008	ETHYL ACETATE OVERCAL	NY	Y
9	L1603979-01,3,250,250	TO15_SFS	R239100	WG866471,ICAL12008		NY	Y
10	L1603979-02,3,250,250	TO15_SFS	R239101	WG866471,ICAL12008		NY	Y
11	L1603979-03,3,250,250	TO15_SFS	R239102	WG866471,ICAL12008	DCDFM AND PCE OVERCAL	NY	Y
12	L1603979-04,3,250,250	TO15_SFS	R239103	WG866471,ICAL12008		NY	Y
13	L1603979-05,3,250,250	TO15_SFS	R239104	WG866471,ICAL12008		NY	Y
14	L1603836-01,3,250,250	TO15_SFS	R239105	WG866471,ICAL12008	FAILED IS DUE TO INTERFERENCE	NY	Y

Alpha Analytical Air Lab Instrument Run Log

15	L1603987-01,3,250,250	TO15_SFS	R239106	WG866471,ICAL12008		NY	Y
16	L1603976-12D,3,12.5622,250	TO15_SFS	R239107	WG865352,ICAL12008	4M2P AND TOLUENE ONLY	NJ-TO15	Y
8	L1604136-08D2,3,50,250	TO15_SFS	R239108	WG866471,ICAL12008	ETHYL ACETATE ONLY	NY	Y
11	L1603979-03D,3,25,250	TO15_SFS	R239109	WG866471,ICAL12008	DCDFM AND PCE ONLY	NY	Y
14	L1603836-01D,3,50,250	TO15_SFS	R239110	WG866471,ICAL12008	PCE OVERCAL	NY	Y
14	L1603836-01D2,3,25,250	TO15_SFS	R239111	WG866471,ICAL12008	PCE STILL OVERCAL	NY	Y
14	L1603836-01D2,3,12.4454,250	TO15_SFS	R239112	WG866471,ICAL12008	PCE ONLY	NY	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed