

Type I Data Package

Prepared for:

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

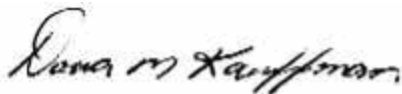
Project: SSP-1428
Air Samples
Collected on 09/16/15-09/19/15

SDG# SSX07

GROUP	SAMPLE NUMBERS
1596108	8065067-8065068

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:



Dana M. Kauffman
Manager

Date: 11/02/2015

Any questions or concerns you might have regarding this data package should be directed to your client representative, Natalie Luciano at (717) 556-7258.

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**Sample Reference List for SDG Number SSX07
with a Data Package Type of I
20613 - CenterPoint Properties
Project: SSP-1428**

Lab Sample Number	Lab Sample Code	Client Sample Description
8065067	SVMP5	SVMP-05 Grab Air SUMMA# 912
8065068	SVMP3	SVMP-03 Grab Air SUMMA# 1165

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

05298 TO 15 VOA Ext. List

Air samples are collected in passivated SUMMA canisters. A volume of the air is cryogenically trapped and desorbed into a gas chromatograph equipped with a capillary column and interfaced directly to a mass selective (MS) detector.

Reference: EPA Method TO-15, "Methods for the Determination of Toxic Organic Compounds in Air," 1999

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

October 16, 2015

Project: SSP-1428

Submittal Date: 09/26/2015
Group Number: 1596108
SDG: SSX07
State of Sample Origin: MO

Client Sample Description

SVMP-05 Grab Air
SVMP-03 Grab Air

Lancaster Labs (LL)

8065067
8065068

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Don A. Trego
ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Rachel Shannon
ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Harvey A. Cohen

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SVMP-05 Grab Air
SUMMA# 912
SSP-1428

LL Sample # AQ 8065067
LL Group # 1596108
Account # 20613

Project Name: SSP-1428

Collected: 09/16/2015 13:09 by OS
through 09/16/2015 15:44
Submitted: 09/26/2015 10:00
Reported: 10/16/2015 13:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

SVMP5 SDG#: SSX07-01

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb(v)	ppb(v)	
05298	Acetone	67-64-1	4,800 U	4,800	2,000 U	2,000	1000
05298	Benzene	71-43-2	3,200 U	3,200	1,000 U	1,000	1000
05298	Bromobenzene	108-86-1	6,400 U	6,400	1,000 U	1,000	1000
05298	Bromodichloromethane	75-27-4	6,700 U	6,700	1,000 U	1,000	1000
05298	Bromoform	75-25-2	10,000 U	10,000	1,000 U	1,000	1000
05298	Bromomethane	74-83-9	3,900 U	3,900	1,000 U	1,000	1000
05298	1,3-Butadiene	106-99-0	2,200 J	4,400	1,000 J	2,000	1000
05298	2-Butanone	78-93-3	5,900 U	5,900	2,000 U	2,000	1000
05298	Carbon Disulfide	75-15-0	3,100 U	3,100	1,000 U	1,000	1000
05298	Carbon Tetrachloride	56-23-5	6,300 U	6,300	1,000 U	1,000	1000
05298	Chlorobenzene	108-90-7	4,600 U	4,600	1,000 U	1,000	1000
05298	Chlorodifluoromethane	75-45-6	3,500 U	3,500	1,000 U	1,000	1000
05298	Chloroethane	75-00-3	2,600 U	2,600	1,000 U	1,000	1000
05298	Chloroform	67-66-3	4,900 U	4,900	1,000 U	1,000	1000
05298	Chloromethane	74-87-3	2,100 U	2,100	1,000 U	1,000	1000
05298	3-Chloropropene	107-05-1	3,100 U	3,100	1,000 U	1,000	1000
05298	Cumene	98-82-8	4,900 U	4,900	1,000 U	1,000	1000
05298	Dibromochloromethane	124-48-1	8,500 U	8,500	1,000 U	1,000	1000
05298	1,2-Dibromoethane	106-93-4	7,700 U	7,700	1,000 U	1,000	1000
05298	Dibromomethane	74-95-3	7,100 U	7,100	1,000 U	1,000	1000
05298	1,2-Dichlorobenzene	95-50-1	6,000 U	6,000	1,000 U	1,000	1000
05298	1,3-Dichlorobenzene	541-73-1	6,000 U	6,000	1,000 U	1,000	1000
05298	1,4-Dichlorobenzene	106-46-7	6,000 U	6,000	1,000 U	1,000	1000
05298	Dichlorodifluoromethane	75-71-8	4,900 U	4,900	1,000 U	1,000	1000
05298	1,1-Dichloroethane	75-34-3	4,000 U	4,000	1,000 U	1,000	1000
05298	1,2-Dichloroethane	107-06-2	4,000 U	4,000	1,000 U	1,000	1000
05298	1,1-Dichloroethene	75-35-4	7,100 U	4,000	1,800 U	1,000	1000
05298	cis-1,2-Dichloroethene	156-59-2	1,300,000 U	79,000	320,000 U	20,000	20000
05298	trans-1,2-Dichloroethene	156-60-5	44,000 U	4,000	11,000 U	1,000	1000
05298	Dichlorofluoromethane	75-43-4	4,200 U	4,200	1,000 U	1,000	1000
05298	1,2-Dichloropropane	78-87-5	4,600 U	4,600	1,000 U	1,000	1000
05298	cis-1,3-Dichloropropene	10061-01-5	4,500 U	4,500	1,000 U	1,000	1000
05298	trans-1,3-Dichloropropene	10061-02-6	4,500 U	4,500	1,000 U	1,000	1000
05298	Ethylbenzene	100-41-4	4,300 U	4,300	1,000 U	1,000	1000
05298	4-Ethyltoluene	622-96-8	4,900 U	4,900	1,000 U	1,000	1000
05298	Freon 113	76-13-1	15,000 U	15,000	2,000 U	2,000	1000
05298	Freon 114	76-14-2	7,000 U	7,000	1,000 U	1,000	1000
05298	Heptane	142-82-5	4,100 U	4,100	1,000 U	1,000	1000
05298	Hexachloroethane	67-72-1	9,700 U	9,700	1,000 U	1,000	1000
05298	Hexane	110-54-3	3,500 U	3,500	1,000 U	1,000	1000
05298	2-Hexanone	591-78-6	8,200 U	8,200	2,000 U	2,000	1000
05298	Isooctane	540-84-1	4,700 U	4,700	1,000 U	1,000	1000
05298	Methyl t-Butyl Ether	1634-04-4	3,600 U	3,600	1,000 U	1,000	1000
05298	4-Methyl-2-pentanone	108-10-1	8,200 U	8,200	2,000 U	2,000	1000
05298	Methylene Chloride	75-09-2	3,500 U	3,500	1,000 U	1,000	1000
05298	Octane	111-65-9	4,700 U	4,700	1,000 U	1,000	1000
05298	Pentane	109-66-0	3,000 U	3,000	1,000 U	1,000	1000
05298	Styrene	100-42-5	4,300 U	4,300	1,000 U	1,000	1000
05298	1,1,1,2-Tetrachloroethane	630-20-6	6,900 U	6,900	1,000 U	1,000	1000
05298	1,1,2,2-Tetrachloroethane	79-34-5	6,900 U	6,900	1,000 U	1,000	1000
05298	Tetrachloroethene	127-18-4	6,800 U	6,800	1,000 U	1,000	1000

Sample Description: SVMP-05 Grab Air
SUMMA# 912
SSP-1428

LL Sample # AQ 8065067
LL Group # 1596108
Account # 20613

Project Name: SSP-1428

Collected: 09/16/2015 13:09 by OS
through 09/16/2015 15:44
Submitted: 09/26/2015 10:00
Reported: 10/16/2015 13:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

SVMP5 SDG#: SSX07-01

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb(v)	ppb(v)	
05298	Toluene	108-88-3	3,800 U	3,800	1,000 U	1,000	1000
05298	1,1,1-Trichloroethane	71-55-6	5,500 U	5,500	1,000 U	1,000	1000
05298	1,1,2-Trichloroethane	79-00-5	5,500 U	5,500	1,000 U	1,000	1000
05298	Trichloroethene	79-01-6	63,000 U	5,400	12,000 U	1,000	1000
05298	Trichlorofluoromethane	75-69-4	5,600 U	5,600	1,000 U	1,000	1000
05298	1,2,3-Trichloropropane	96-18-4	6,000 U	6,000	1,000 U	1,000	1000
05298	1,2,4-Trimethylbenzene	95-63-6	4,900 U	4,900	1,000 U	1,000	1000
05298	1,3,5-Trimethylbenzene	108-67-8	4,900 U	4,900	1,000 U	1,000	1000
05298	Vinyl Chloride	75-01-4	23,000 U	2,600	9,000 U	1,000	1000
05298	m/p-Xylene	179601-23-1	4,300 U	4,300	1,000 U	1,000	1000
05298	o-Xylene	95-47-6	4,300 U	4,300	1,000 U	1,000	1000

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1527830AA	10/06/2015 02:01	Jacob E Bailey	1000
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1527830AB	10/06/2015 22:53	Jacob E Bailey	20000

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8065067
Canister ID:	912	Lab File ID:	dj00087.d
Pressure Received:	24.4 psia	Date Collected:	09/16/2015
Final Pressure:	12.2 psia	Date Received:	09/26/2015
Nominal Volume:	250 cc	Analyzed Date:	10/06/2015
Injection Volume:	50 cc	Analyzed Time:	02:01
Instrument ID:	10145	Dilution Factor:	1000

Number TICs Found: 1 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown Alkene	2.59	3000	J
TOTVOATIC	Total Tics		3000	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-03 Grab Air
SUMMA# 1165
SSP-1428

LL Sample # AQ 8065068
LL Group # 1596108
Account # 20613

Project Name: SSP-1428

Collected: 09/19/2015 14:06 by OS
through 09/19/2015 17:06
Submitted: 09/26/2015 10:00
Reported: 10/16/2015 13:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

SVMP3 SDG#: SSX07-02

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	48	9.5	20	4.0	2
05298	Benzene	71-43-2	64	6.4	20	2.0	2
05298	Bromobenzene	108-86-1	13	13	2.0	2.0	2
05298	Bromodichloromethane	75-27-4	13	13	2.0	2.0	2
05298	Bromoform	75-25-2	4.8	21	0.46	2.0	2
05298	Bromomethane	74-83-9	7.8	7.8	2.0	2.0	2
05298	1,3-Butadiene	106-99-0	8.8	8.8	4.0	4.0	2
05298	2-Butanone	78-93-3	12	12	4.0	4.0	2
05298	Carbon Disulfide	75-15-0	15	6.2	4.7	2.0	2
05298	Carbon Tetrachloride	56-23-5	13	13	2.0	2.0	2
05298	Chlorobenzene	108-90-7	1.9	9.2	0.42	2.0	2
05298	Chlorodifluoromethane	75-45-6	7.1	7.1	2.0	2.0	2
05298	Chloroethane	75-00-3	5.3	5.3	2.0	2.0	2
05298	Chloroform	67-66-3	9.8	9.8	2.0	2.0	2
05298	Chloromethane	74-87-3	4.1	4.1	2.0	2.0	2
05298	3-Chloropropene	107-05-1	6.3	6.3	2.0	2.0	2
05298	Cumene	98-82-8	4.9	9.8	0.99	2.0	2
05298	Dibromochloromethane	124-48-1	17	17	2.0	2.0	2
05298	1,2-Dibromoethane	106-93-4	3.7	15	0.48	2.0	2
05298	Dibromomethane	74-95-3	14	14	2.0	2.0	2
05298	1,2-Dichlorobenzene	95-50-1	5.9	12	0.98	2.0	2
05298	1,3-Dichlorobenzene	541-73-1	5.4	12	0.90	2.0	2
05298	1,4-Dichlorobenzene	106-46-7	6.3	12	1.1	2.0	2
05298	Dichlorodifluoromethane	75-71-8	9.9	9.9	2.0	2.0	2
05298	1,1-Dichloroethane	75-34-3	8.1	8.1	2.0	2.0	2
05298	1,2-Dichloroethane	107-06-2	8.1	8.1	2.0	2.0	2
05298	1,1-Dichloroethene	75-35-4	6.1	7.9	1.5	2.0	2
05298	cis-1,2-Dichloroethene	156-59-2	520	7.9	130	2.0	2
05298	trans-1,2-Dichloroethene	156-60-5	19	7.9	4.9	2.0	2
05298	Dichlorofluoromethane	75-43-4	8.4	8.4	2.0	2.0	2
05298	1,2-Dichloropropane	78-87-5	8.2	9.2	1.8	2.0	2
05298	cis-1,3-Dichloropropene	10061-01-5	9.1	9.1	2.0	2.0	2
05298	trans-1,3-Dichloropropene	10061-02-6	9.1	9.1	2.0	2.0	2
05298	Ethylbenzene	100-41-4	52	8.7	12	2.0	2
05298	4-Ethyltoluene	622-96-8	10	9.8	2.0	2.0	2
05298	Freon 113	76-13-1	31	31	4.0	4.0	2
05298	Freon 114	76-14-2	14	14	2.0	2.0	2
05298	Heptane	142-82-5	2.6	8.2	0.62	2.0	2
05298	Hexachloroethane	67-72-1	19	19	2.0	2.0	2
05298	Hexane	110-54-3	6.3	7.0	1.8	2.0	2
05298	2-Hexanone	591-78-6	16	16	4.0	4.0	2
05298	Isooctane	540-84-1	5.8	9.3	1.2	2.0	2
05298	Methyl t-Butyl Ether	1634-04-4	25	7.2	6.8	2.0	2
05298	4-Methyl-2-pentanone	108-10-1	16	16	4.0	4.0	2
05298	Methylene Chloride	75-09-2	6.9	6.9	2.0	2.0	2
05298	Octane	111-65-9	14	9.3	3.0	2.0	2
05298	Pentane	109-66-0	97	5.9	33	2.0	2
05298	Styrene	100-42-5	8.5	8.5	2.0	2.0	2
05298	1,1,1,2-Tetrachloroethane	630-20-6	14	14	2.0	2.0	2
05298	1,1,2,2-Tetrachloroethane	79-34-5	14	14	2.0	2.0	2
05298	Tetrachloroethene	127-18-4	7.9	14	1.2	2.0	2

Sample Description: SVMP-03 Grab Air
SUMMA# 1165
SSP-1428

LL Sample # AQ 8065068
LL Group # 1596108
Account # 20613

Project Name: SSP-1428

Collected: 09/19/2015 14:06 by OS
through 09/19/2015 17:06
Submitted: 09/26/2015 10:00
Reported: 10/16/2015 13:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

SVMP3 SDG#: SSX07-02

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb(v)	ppb(v)	
05298	Toluene	108-88-3	110	7.5	30	2.0	2
05298	1,1,1-Trichloroethane	71-55-6	11 U	11	2.0 U	2.0	2
05298	1,1,2-Trichloroethane	79-00-5	11 U	11	2.0 U	2.0	2
05298	Trichloroethene	79-01-6	230	11	43	2.0	2
05298	Trichlorofluoromethane	75-69-4	11 U	11	2.0 U	2.0	2
05298	1,2,3-Trichloropropane	96-18-4	3.4 J	12	0.57 J	2.0	2
05298	1,2,4-Trimethylbenzene	95-63-6	17	9.8	3.5	2.0	2
05298	1,3,5-Trimethylbenzene	108-67-8	22	9.8	4.6	2.0	2
05298	Vinyl Chloride	75-01-4	5.1 U	5.1	2.0 U	2.0	2
05298	m/p-Xylene	179601-23-1	120	8.7	27	2.0	2
05298	o-Xylene	95-47-6	80	8.7	18	2.0	2

Reporting limits were raised due to interference from the sample matrix.

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1528030AA	10/08/2015 01:31	Jacob E Bailey	2

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8065068
Canister ID:	1165	Lab File ID:	dj00144.d
Pressure Received:	21.7 psia	Date Collected:	09/19/2015
Final Pressure:	5.4 psia	Date Received:	09/26/2015
Nominal Volume:	250 cc	Analyzed Date:	10/08/2015
Injection Volume:	500 cc	Analyzed Time:	01:31
Instrument ID:	10145	Dilution Factor:	2

Number TICs Found: 18 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
74-98-6	Propane	2.01	91	J
115-11-7	1-Propene, 2-methyl-	2.36	120	J
	Unknown	2.58	43	J
	Unknown	3.62	54	J
1678-92-8	Cyclohexane, propyl-	17.77	23	J
	Unknown	18.02	45	J
	Unknown	19.44	22	J
	Unknown Cycloalkane	19.66	36	J
	Unknown Organic Acid	19.82	21	J
	Unknown Cycloalkane	21.21	22	J
5989-27-5	D-Limonene	21.52	200	J
	Unknown C3-Alkylbenzene	21.92	22	J
	Unknown Alkane	22.23	22	J
	Unknown	22.67	22	J
	Unknown C4-Alkylbenzene	23.04	28	J
	Unknown	24.29	33	J
	Unknown	24.67	24	J
	Unknown	25.36	26	J
TOTVOATIC	Total Tics		850	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 10/16/2015 13:13

Group Number: 1596108

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D1527830AA	Sample number(s): 8065067							
Acetone	2.4	U	2.4 ug/m3	96	103	61-134	8	25
Benzene	3.2	U	3.2 ug/m3	90	96	70-130	7	25
Bromobenzene	6.4	U	6.4 ug/m3					
Bromodichloromethane	6.7	U	6.7 ug/m3	103	110	62-129	6	25
Bromoform	10	U	10. ug/m3	99	107	64-141	8	25
Bromomethane	3.9	U	3.9 ug/m3	93	98	70-130	5	25
1,3-Butadiene	4.4	U	4.4 ug/m3	78	82	57-138	5	25
2-Butanone	5.9	U	5.9 ug/m3	94	105	60-135	11	25
Carbon Disulfide	3.1	U	3.1 ug/m3	100	102	55-121	2	25
Carbon Tetrachloride	6.3	U	6.3 ug/m3	119	124	70-130	4	25
Chlorobenzene	4.6	U	4.6 ug/m3	84	90	70-130	8	25
Chlorodifluoromethane	3.5	U	3.5 ug/m3					
Chloroethane	2.6	U	2.6 ug/m3	87	94	63-119	7	25
Chloroform	4.9	U	4.9 ug/m3	102	108	70-130	6	25
Chloromethane	4.1	U	4.1 ug/m3	67	72	54-118	7	25
3-Chloropropene	3.1	U	3.1 ug/m3					
Cumene	4.9	U	4.9 ug/m3					
Dibromochloromethane	8.5	U	8.5 ug/m3	93	100	65-127	7	25
1,2-Dibromoethane	7.7	U	7.7 ug/m3	93	100	65-126	8	25
Dibromomethane	7.1	U	7.1 ug/m3					
1,2-Dichlorobenzene	6.0	U	6.0 ug/m3	86	95	62-132	10	25
1,3-Dichlorobenzene	6.0	U	6.0 ug/m3	88	98	63-125	10	25
1,4-Dichlorobenzene	6.0	U	6.0 ug/m3	88	98	63-127	10	25
Dichlorodifluoromethane	4.9	U	4.9 ug/m3	117	121	61-149	3	25
1,1-Dichloroethane	4.0	U	4.0 ug/m3	93	100	67-124	7	25
1,2-Dichloroethane	4.0	U	4.0 ug/m3	111	117	70-130	5	25
1,1-Dichloroethene	4.0	U	4.0 ug/m3	103	106	61-128	3	25
trans-1,2-Dichloroethene	4.0	U	4.0 ug/m3	99	102	66-121	3	25
Dichlorofluoromethane	4.2	U	4.2 ug/m3					
1,2-Dichloropropane	4.6	U	4.6 ug/m3	85	91	70-130	7	25
cis-1,3-Dichloropropene	4.5	U	4.5 ug/m3	100	108	64-136	8	25
trans-1,3-Dichloropropene	4.5	U	4.5 ug/m3	105	112	61-126	7	25
Ethylbenzene	4.3	U	4.3 ug/m3	90	98	70-130	8	25
4-Ethyltoluene	4.9	U	4.9 ug/m3	88	94	59-126	7	25
Freon 113	15	U	15. ug/m3	96	99	63-114	4	25
Freon 114	7.0	U	7.0 ug/m3	103	108	63-123	5	25
Heptane	4.1	U	4.1 ug/m3	72	78	56-123	8	25
Hexachloroethane	9.7	U	9.7 ug/m3					
Hexane	3.5	U	3.5 ug/m3	75	80	63-117	7	25
2-Hexanone	4.1	U	4.1 ug/m3	85	95	47-150	11	25
Isooctane	4.7	U	4.7 ug/m3					
Methyl t-Butyl Ether	3.6	U	3.6 ug/m3	97	102	52-129	5	25
4-Methyl-2-pentanone	8.2	U	8.2 ug/m3	78	85	53-140	9	25

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 10/16/2015 13:13

Group Number: 1596108

Analysis Name	Blank		Report	LCS	LCSD	LCS/LCSD	RPD	RPD
	Result	LOQ						
Methylene Chloride	3.5	U	3.5	103	105	70-130	3	25
Octane	4.7	U	4.7					
Pentane	3.0	U	3.0					
Styrene	4.3	U	4.3	87	96	64-130	10	25
1,1,1,2-Tetrachloroethane	6.9	U	6.9					
1,1,2,2-Tetrachloroethane	6.9	U	6.9	92	99	58-133	7	25
Tetrachloroethene	6.8	U	6.8	79	85	70-130	8	25
Toluene	3.8	U	3.8	89	95	70-130	7	25
1,1,1-Trichloroethane	5.5	U	5.5	110	115	70-130	5	25
1,1,2-Trichloroethane	5.5	U	5.5	90	97	59-131	7	25
Trichloroethene	5.4	U	5.4	81	88	70-130	8	25
Trichlorofluoromethane	5.6	U	5.6	120	122	70-130	2	25
1,2,3-Trichloropropane	6.0	U	6.0					
1,2,4-Trimethylbenzene	4.9	U	4.9	88	96	60-128	8	25
1,3,5-Trimethylbenzene	4.9	U	4.9	89	96	61-132	7	25
Vinyl Chloride	2.6	U	2.6	90	97	70-130	7	25
m/p-Xylene	4.3	U	4.3	89	96	70-130	7	25
o-Xylene	4.3	U	4.3	94	101	70-130	7	25
Batch number: D1527830AB	Sample number(s): 8065067							
cis-1,2-Dichloroethene	4.0	U	4.0	95	101	65-121	6	25
Batch number: D1528030AA	Sample number(s): 8065068							
Acetone	2.4	U	2.4	95	88	61-134	8	25
Benzene	3.2	U	3.2	93	82	70-130	12	25
Bromobenzene	6.4	U	6.4					
Bromodichloromethane	6.7	U	6.7	113	103	62-129	9	25
Bromoform	10	U	10	92	92	64-141	9	25
Bromomethane	3.9	U	3.9	93	82	70-130	12	25
1,3-Butadiene	4.4	U	4.4	73	64	57-138	12	25
2-Butanone	5.9	U	5.9	87	82	60-135	6	25
Carbon Disulfide	3.1	U	3.1	101	89	55-121	12	25
Carbon Tetrachloride	6.3	U	6.3	135*	119	70-130	13	25
Chlorobenzene	4.6	U	4.6	82	77	70-130	6	25
Chlorodifluoromethane	3.5	U	3.5					
Chloroethane	2.6	U	2.6	86	76	63-119	12	25
Chloroform	4.9	U	4.9	108	98	70-130	10	25
Chloromethane	4.1	U	4.1	60	54	54-118	11	25
3-Chloropropene	3.1	U	3.1					
Cumene	4.9	U	4.9					
Dibromochloromethane	8.5	U	8.5	96	88	65-127	8	25
1,2-Dibromoethane	7.7	U	7.7	92	85	65-126	7	25
Dibromomethane	7.1	U	7.1					
1,2-Dichlorobenzene	6.0	U	6.0	85	80	62-132	6	25
1,3-Dichlorobenzene	6.0	U	6.0	86	81	63-125	6	25
1,4-Dichlorobenzene	6.0	U	6.0	86	81	63-127	6	25
Dichlorodifluoromethane	4.9	U	4.9	122	111	61-149	10	25
1,1-Dichloroethane	4.0	U	4.0	96	84	67-124	13	25
1,2-Dichloroethane	4.0	U	4.0	125	111	70-130	12	25
1,1-Dichloroethene	4.0	U	4.0	110	96	61-128	13	25
cis-1,2-Dichloroethene	4.0	U	4.0	96	85	65-121	12	25
trans-1,2-Dichloroethene	4.0	U	4.0	105	89	66-121	16	25
Dichlorofluoromethane	4.2	U	4.2					
1,2-Dichloropropane	4.6	U	4.6	83	76	70-130	9	25
cis-1,3-Dichloropropene	4.5	U	4.5	102	94	64-136	9	25
trans-1,3-Dichloropropene	4.5	U	4.5	101	92	61-126	9	25

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 10/16/2015 13:13

Group Number: 1596108

<u>Analysis Name</u>	<u>Blank</u>		<u>Blank</u>	<u>Report</u>	<u>LCS</u>	<u>LCSD</u>	<u>LCS/LCSD</u>	<u>RPD</u>	
	<u>Result</u>		<u>LOQ</u>	<u>Units</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Max</u>
Ethylbenzene	4.3	U	4.3	ug/m3	88	83	70-130	6	25
4-Ethyltoluene	4.9	U	4.9	ug/m3	86	81	59-126	7	25
Freon 113	15	U	15.	ug/m3	104	91	63-114	13	25
Freon 114	7.0	U	7.0	ug/m3	105	92	63-123	13	25
Heptane	4.1	U	4.1	ug/m3	75	67	56-123	12	25
Hexachloroethane	9.7	U	9.7	ug/m3					
Hexane	3.5	U	3.5	ug/m3	75	66	63-117	13	25
2-Hexanone	4.1	U	4.1	ug/m3	78	75	47-150	4	25
Isooctane	4.7	U	4.7	ug/m3					
Methyl t-Butyl Ether	3.6	U	3.6	ug/m3	96	91	52-129	5	25
4-Methyl-2-pentanone	8.2	U	8.2	ug/m3	79	72	53-140	10	25
Methylene Chloride	3.5	U	3.5	ug/m3	106	92	70-130	14	25
Octane	4.7	U	4.7	ug/m3					
Pentane	3.0	U	3.0	ug/m3					
Styrene	4.3	U	4.3	ug/m3	84	79	64-130	6	25
1,1,1,2-Tetrachloroethane	6.9	U	6.9	ug/m3					
1,1,2,2-Tetrachloroethane	6.9	U	6.9	ug/m3	87	81	58-133	7	25
Tetrachloroethene	6.8	U	6.8	ug/m3	81	74	70-130	9	25
Toluene	3.8	U	3.8	ug/m3	85	79	70-130	6	25
1,1,1-Trichloroethane	5.5	U	5.5	ug/m3	122	108	70-130	12	25
1,1,2-Trichloroethane	5.5	U	5.5	ug/m3	86	81	59-131	7	25
Trichloroethene	5.4	U	5.4	ug/m3	89	77	70-130	13	25
Trichlorofluoromethane	5.6	U	5.6	ug/m3	135*	118	70-130	14	25
1,2,3-Trichloropropane	6.0	U	6.0	ug/m3					
1,2,4-Trimethylbenzene	4.9	U	4.9	ug/m3	88	82	60-128	6	25
1,3,5-Trimethylbenzene	4.9	U	4.9	ug/m3	90	85	61-132	7	25
Vinyl Chloride	2.6	U	2.6	ug/m3	84	74	70-130	13	25
m/p-Xylene	4.3	U	4.3	ug/m3	88	82	70-130	6	25
o-Xylene	4.3	U	4.3	ug/m3	93	87	70-130	7	25

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Summa Canister Field Test Data/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 20613 Group # 1596108 For Eurofins Lancaster Laboratories Environmental use only Sample # 8065067-68 Bottle Order (SCR) # _____
 Instructions on reverse side correspond with circled numbers.

1 Client Information					3 Turnaround Time Requested (TAT) (circle one)					6 Analyses Requested				
Client <u>CenterPoint Properties</u>					<input checked="" type="radio"/> Standard Rush (specify) _____					EPA TO - 15 <input type="checkbox"/> EPA 18 <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> EPA 25 (select range below) Helium as tracer <input type="checkbox"/> O2/CO2 Library Search				
Project Name/# <u>Barnister Federal Center SSPA1428</u>					4 Data Package Required? 5 EDD Required?									
Project Manager <u>Harvey Cohen</u>					<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No									
Sampler <u>Onnik Swastian</u>					Temperature (F) Pressure ("Hg) Start Stop Start Stop									
Name of state where samples were collected					Ambient									
					Maximum									
					Minimum									
2		Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)			
Sample Identification														
<u>SVMP-05</u>		<u>9/16 13:09</u>	<u>9/16 15:44</u>	<u>29</u>	<u>6.0</u>	<u>-</u>	<u>-</u>	<u>249935</u>	<u>912</u>	<u>1</u>	<u>167</u>	<input checked="" type="checkbox"/>		
<u>SVMP-03</u>		<u>9/19 14:06</u>	<u>9/19 17:06</u>	<u>29</u>	<u>22.3</u>	<u>-</u>	<u>-</u>	<u>337691</u>	<u>1165</u>	<u>1</u>	<u>167</u>	<input checked="" type="checkbox"/>		
<u>DISCARD SAMPLE</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>342120</u>	<u>1163</u>	<u>1</u>	<u>166</u>			
7 Instructions/QC Requirements & Comments										EPA 25 (check one) <input type="checkbox"/> C1 - C4 <input type="checkbox"/> C2 - C10 <input type="checkbox"/> C1 - C10 <input type="checkbox"/> C4 - C10 (GRO) <input type="checkbox"/> C2 - C4				
Canisters Shipped by: <u>Wendell</u> 14:59		Date/Time: <u>9-10-15</u>	Canisters Received by: <u>Onnik Swastian</u>		Date/Time: <u>9/15 12:00</u>	Relinquished by: <u>Onnik Swastian</u>		Date/Time: <u>9/25 17:30</u>	Received by: <u>804713310598</u>		Date/Time: <u>9/25 17:30</u>	8		
Relinquished by:		Date/Time:	Received by:		Date/Time:	Relinquished by:		Date/Time:	Received by:		Date/Time:			
Relinquished by:		Date/Time:	Received by:		Date/Time:	Relinquished by:		Date/Time:	Received by:		Date/Time:			

Client: CenterPoint Properties

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>09/26/2015 10:00</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	N/A	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	Yes
Samples Intact:	Yes	Air Quality Flow Controllers Present:	Yes
Missing Samples:	No	Flow Controller Quantity:	3
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 12:40 on 09/26/2015

General Comments: Rec'd 1 bag of summa parts

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Acetone (2-propanone)	67-64-1	58.08	4,800	U	2,000			
Benzene	71-43-2	78.11	3,200	U	1,000			
Bromobenzene	108-86-1	157.0	6,400	U	1,000			
Bromodichloromethane	75-27-4	163.8	6,700	U	1,000			
Bromoform	75-25-2	252.8	10,000	U	1,000			
Bromomethane (Methyl bromide)	74-83-9	94.94	3,900	U	1,000			
1,3-Butadiene	106-99-0	54.09	2,200	J	1,000			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	5,900	U	2,000			
Carbon disulfide	75-15-0	76.14	3,100	U	1,000			
Carbon tetrachloride	56-23-5	153.8	6,300	U	1,000			
Chlorobenzene	108-90-7	112.6	4,600	U	1,000			
Chlorodifluoromethane	75-45-6	86.47	3,500	U	1,000			
Chloroethane	75-00-3	64.52	2,600	U	1,000			
Chloroform	67-66-3	119.4	4,900	U	1,000			
Chloromethane (Methyl chloride)	74-87-3	50.49	2,100	U	1,000			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3,100	U	1,000			
Cumene	98-82-8	120.2	4,900	U	1,000			
Dibromochloromethane	124-48-1	208.3	8,500	U	1,000			
1,2-Dibromoethane	106-93-4	187.9	7,700	U	1,000			
Dibromomethane	74-95-3	173.8	7,100	U	1,000			
1,2-Dichlorobenzene	95-50-1	147.0	6,000	U	1,000			
1,3-Dichlorobenzene	541-73-1	147.0	6,000	U	1,000			
1,4-Dichlorobenzene	106-46-7	147.0	6,000	U	1,000			
Dichlorodifluoromethane	75-71-8	120.9	4,900	U	1,000			
1,1-Dichloroethane	75-34-3	98.96	4,000	U	1,000			
1,2-Dichloroethane	107-06-2	98.96	4,000	U	1,000			
1,1-Dichloroethene	75-35-4	96.94	7,100	J	1,800			
1,2-Dichloroethene (cis)	156-59-2	96.94	1,300,000	J	320,000			
1,2-Dichloroethene (trans)	156-60-5	96.94	44,000	J	11,000			
Dichlorofluoromethane	75-43-4	102.9	4,200	U	1,000			
1,2-Dichloropropane	78-87-5	113.0	4,600	U	1,000			
cis-1,3-Dichloropropene	10061-01-5	111.0	4,500	U	1,000			
trans-1,3-Dichloropropene	10061-02-6	111.0	4,500	U	1,000			
Ethylbenzene	100-41-4	106.2	4,300	U	1,000			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	4,900	U	1,000			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	15,000	U	2,000			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7,000	U	1,000			
n-Heptane	142-82-5	100.2	4,100	U	1,000			
Hexachloroethane	67-72-1	236.7	9,700	U	1,000			
n-Hexane	110-54-3	86.17	3,500	U	1,000			
2-Hexanone	591-78-6	100.2	8,200	U	2,000			
2,2,4-Trimethylpentane	540-84-1	114.2	4,700	U	1,000			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3,600	U	1,000			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	8,200	U	2,000			
Methylene chloride	75-09-2	84.94	3,500	U	1,000			
Octane	111-65-9	114.2	4,700	U	1,000			
Pentane	109-66-0	72.15	3,000	U	1,000			
Styrene	100-42-5	104.1	4,300	U	1,000			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6,900	U	1,000			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6,900	U	1,000			
Tetrachloroethene (PCE)	127-18-4	165.8	6,800	U	1,000			
Toluene	108-88-3	92.14	3,800	U	1,000			
1,1,1-Trichloroethane	71-55-6	133.4	5,500	U	1,000			
1,1,2-Trichloroethane	79-00-5	133.4	5,500	U	1,000			
Trichloroethene (TCE)	79-01-6	131.4	63,000	J	12,000			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	5,600	U	1,000			
1,2,3-Trichloropropane	96-18-4	147.4	6,000	U	1,000			
1,2,4-Trimethylbenzene	95-63-6	120.2	4,900	U	1,000			
1,3,5-Trimethylbenzene	108-67-8	120.2	4,900	U	1,000			
Vinyl chloride	75-01-4	62.50	23,000	J	9,000			
Xylenes (m&p)	179601-23-1	106.2	4,300	U	1,000			

Project Name: SSP-1428
 Field ID Number: SVMP-05
 Laboratory ID Number: 8065067
 SDG Number: SSS07

Sampling Date: 09/16/2015
 Analysis Date: 10/06/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	4,300	U	1,000			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Unknown Alkene			3000	J		2.59		
Total Tics	TOTVOATIC		3000	J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15								
			ug/m3		ppb(v)			
Acetone (2-propanone)	67-64-1	58.08	48		20			
Benzene	71-43-2	78.11	64		20			
Bromobenzene	108-86-1	157.0	13	U	2.0			
Bromodichloromethane	75-27-4	163.8	13	U	2.0			
Bromoform	75-25-2	252.8	4.8	J	0.46			
Bromomethane (Methyl bromide)	74-83-9	94.94	7.8	U	2.0			
1,3-Butadiene	106-99-0	54.09	8.8	U	4.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	12		4.0			
Carbon disulfide	75-15-0	76.14	15		4.7			
Carbon tetrachloride	56-23-5	153.8	13	U	2.0			
Chlorobenzene	108-90-7	112.6	1.9	J	0.42			
Chlorodifluoromethane	75-45-6	86.47	7.1	U	2.0			
Chloroethane	75-00-3	64.52	5.3	U	2.0			
Chloroform	67-66-3	119.4	9.8	U	2.0			
Chloromethane (Methyl chloride)	74-87-3	50.49	4.1	U	2.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	6.3	U	2.0			
Cumene	98-82-8	120.2	4.9	J	0.99			
Dibromochloromethane	124-48-1	208.3	17	U	2.0			
1,2-Dibromoethane	106-93-4	187.9	3.7	J	0.48			
Dibromomethane	74-95-3	173.8	14	U	2.0			
1,2-Dichlorobenzene	95-50-1	147.0	5.9	J	0.98			
1,3-Dichlorobenzene	541-73-1	147.0	5.4	J	0.90			
1,4-Dichlorobenzene	106-46-7	147.0	6.3	J	1.1			
Dichlorodifluoromethane	75-71-8	120.9	9.9	U	2.0			
1,1-Dichloroethane	75-34-3	98.96	8.1	U	2.0			
1,2-Dichloroethane	107-06-2	98.96	8.1	U	2.0			
1,1-Dichloroethene	75-35-4	96.94	6.1	J	1.5			
1,2-Dichloroethene (cis)	156-59-2	96.94	520		130			
1,2-Dichloroethene (trans)	156-60-5	96.94	19	J	4.9			
Dichlorofluoromethane	75-43-4	102.9	8.4	U	2.0			
1,2-Dichloropropane	78-87-5	113.0	8.2	J	1.8			
cis-1,3-Dichloropropene	10061-01-5	111.0	9.1	U	2.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	9.1	U	2.0			
Ethylbenzene	100-41-4	106.2	52		12			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	10		2.0			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	31	U	4.0			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	14	U	2.0			
n-Heptane	142-82-5	100.2	2.6	J	0.62			
Hexachloroethane	67-72-1	236.7	19	U	2.0			
n-Hexane	110-54-3	86.17	6.3	J	1.8			
2-Hexanone	591-78-6	100.2	16	U	4.0			
2,2,4-Trimethylpentane	540-84-1	114.2	5.8	J	1.2			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	25	J	6.8			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	16	U	4.0			
Methylene chloride	75-09-2	84.94	6.9	U	2.0			
Octane	111-65-9	114.2	14		3.0			
Pentane	109-66-0	72.15	97		33			
Styrene	100-42-5	104.1	8.5	U	2.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	14	U	2.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	14	U	2.0			
Tetrachloroethene (PCE)	127-18-4	165.8	7.9	J	1.2			
Toluene	108-88-3	92.14	110		30			
1,1,1-Trichloroethane	71-55-6	133.4	11	U	2.0			
1,1,2-Trichloroethane	79-00-5	133.4	11	U	2.0			
Trichloroethene (TCE)	79-01-6	131.4	230		43			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	11	U	2.0			
1,2,3-Trichloropropane	96-18-4	147.4	3.4	J	0.57			
1,2,4-Trimethylbenzene	95-63-6	120.2	17	J	3.5			
1,3,5-Trimethylbenzene	108-67-8	120.2	22		4.6			
Vinyl chloride	75-01-4	62.50	5.1	U	2.0			
Xylenes (m&p)	179601-23-1	106.2	120		27			

Project Name: SSP-1428
 Field ID Number: SVMP-03
 Laboratory ID Number: 8065068
 SDG Number: SSX07

Sampling Date: 09/19/2015
 Analysis Date: 10/08/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	80		18			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Propane	74-98-6		91	J		2.01		
1-Propene, 2-methyl-	115-11-7		120	J		2.36		
Unknown			43	J		2.58		
Unknown			54	J		3.62		
Cyclohexane, propyl-	1678-92-8		23	J		17.77		
Unknown			45	J		18.02		
Unknown			22	J		19.44		
Unknown Cycloalkane			36	J		19.66		
Unknown Organic Acid			21	J		19.82		
Unknown Cycloalkane			22	J		21.21		
D-Limonene	5989-27-5		200	J		21.52		
Unknown C3-Alkylbenzene			22	J		21.92		
Unknown Alkane			22	J		22.23		
Unknown			22	J		22.67		
Unknown C4-Alkylbenzene			28	J		23.04		
Unknown			33	J		24.29		
Unknown			24	J		24.67		
Unknown			26	J		25.36		
Total Tics	TOTVOATIC		850	J				

Volatile Organics in Air by GC/MS Data

Case Narrative/Conformance Summary

Volatile Organics in Air by GC/MS

Case Narrative/Conformance Summary

CLIENT: CenterPoint Properties
SDG: SSX07

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Sample #	Client ID	DF	Comments
8065067	SVMP-05	1000; 20000	
8065068	SVMP-03	2	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

LCS/LCSD

(Sample number(s): 8065068: Analysis: 05298)
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

Batch#: D1528030AA (Sample number(s): 8065068)
The recovery(ies) for the following analyte(s) in the LCS exceeds the acceptance window indicating a positive bias: Carbon Tetrachloride, Trichlorofluoromethane

SAMPLE ANALYSIS:

(Sample number(s): 8065068: Analysis: 05298)
Reporting limits were raised due to interference from the sample matrix.

Case Narrative/Conformance Summary

CLIENT: CenterPoint Properties
SDG: SSX07

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Abbreviation Key

LOQ = Limit of Quantitation	LCS = Lab Control Sample
MDL = Method Detection Limit	LCSD = Lab Control Sample Duplicate
ND = Not Detected	RE = Repreparation/Reanalysis
J = Estimated Value	* = Out of Specification
E= out of calibration range	

MDL Summary

Volatile Organics in Air by GC/MS

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Propene	0.580	0.611	0.653	0.583	0.618	0.615	0.643	0.615	0.027	3.143	0.086	0.50	123	pass	pass
Dichlorodifluoromethane	0.501	0.513	0.498	0.499	0.496	0.516	0.530	0.508	0.013	3.143	0.039	0.50	102	fail	pass
Chlorodifluoromethane	0.576	0.575	0.647	0.630	0.600	0.612	0.646	0.612	0.030	3.143	0.095	0.50	122	pass	pass
Freon 114	0.432	0.439	0.438	0.425	0.433	0.438	0.468	0.439	0.014	3.143	0.043	0.50	88	fail	pass
Chloromethane	0.473	0.428	0.453	0.524	0.496	0.521	0.498	0.485	0.035	3.143	0.111	0.50	97	pass	pass
Vinyl Chloride	0.376	0.387	0.400	0.387	0.421	0.397	0.455	0.403	0.027	3.143	0.084	0.50	81	pass	pass
1,3-Butadiene	0.316	0.318	0.309	0.329	0.352	0.390	0.352	0.338	0.029	3.143	0.090	0.50	68	pass	pass
Bromomethane	0.425	0.441	0.444	0.450	0.439	0.443	0.480	0.446	0.017	3.143	0.053	0.50	89	pass	pass
Chloroethane	0.423	0.471	0.434	0.430	0.453	0.465	0.499	0.454	0.027	3.143	0.085	0.50	91	pass	pass
Bromoethene	0.461	0.455	0.449	0.480	0.470	0.461	0.489	0.466	0.014	3.143	0.044	0.50	93	fail	pass
Dichlorofluoromethane	0.496	0.518	0.505	0.513	0.519	0.534	0.545	0.519	0.017	3.143	0.052	0.50	104	pass	pass
Trichlorofluoromethane	0.487	0.493	0.479	0.484	0.477	0.492	0.510	0.489	0.011	3.143	0.035	0.50	98	fail	pass
Pentane	0.497	0.518	0.533	0.517	0.543	0.541	0.560	0.530	0.021	3.143	0.065	0.50	106	pass	pass
Ethanol	1.739	1.863	1.803	1.878	1.852	2.022	2.088	1.892	0.122	3.143	0.383	0.50	378	pass	pass
Freon123a	0.578	0.600	0.557	0.591	0.596	0.614	0.638	0.596	0.026	3.143	0.081	0.50	119	pass	pass
Acrolein	0.613	0.683	0.618	0.585	0.640	0.637	0.674	0.636	0.034	3.143	0.108	0.50	127	pass	pass
1,1-Dichloroethene	0.481	0.506	0.472	0.493	0.494	0.520	0.518	0.498	0.018	3.143	0.057	0.50	100	pass	pass
Freon 113	0.452	0.485	0.455	0.476	0.485	0.502	0.536	0.484	0.029	3.143	0.090	0.50	97	pass	pass
Acetone	1.417	1.475	1.416	1.494	1.564	1.652	1.759	1.540	0.128	3.143	0.402	0.50	308	pass	pass
Methyl Iodide	0.495	0.510	0.498	0.510	0.511	0.516	0.550	0.513	0.018	3.143	0.057	0.50	103	pass	pass
Carbon Disulfide	0.638	0.633	0.626	0.639	0.635	0.680	0.691	0.649	0.026	3.143	0.080	0.50	130	pass	pass
Isopropanol	0.781	0.835	0.838	0.835	0.896	0.851	0.885	0.846	0.038	3.143	0.119	0.50	169	pass	pass
Acetonitrile	0.621	0.681	0.689	0.661	0.727	0.726	0.767	0.696	0.048	3.143	0.152	1.00	70	pass	pass
3-Chloropropene	0.474	0.492	0.522	0.486	0.529	0.547	0.536	0.512	0.028	3.143	0.088	0.50	102	pass	pass
Methylene Chloride	1.060	1.062	1.046	1.103	1.096	1.135	1.178	1.097	0.047	3.143	0.148	0.50	219	pass	pass
tert-Butyl Alcohol	0.457	0.466	0.455	0.363	0.541	0.442	0.302	0.432	0.077	3.143	0.243	0.50	86	pass	pass
Acrylonitrile	0.506	0.591	0.535	0.531	0.573	0.554	0.553	0.549	0.028	3.143	0.088	0.50	110	pass	pass
trans-1,2-Dichloroethene	0.503	0.530	0.495	0.492	0.513	0.536	0.540	0.516	0.020	3.143	0.062	0.50	103	pass	pass
Methyl t-Butyl Ether	0.488	0.547	0.523	0.543	0.542	0.561	0.591	0.542	0.032	3.143	0.100	0.50	108	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Hexane	0.409	0.435	0.416	0.438	0.453	0.488	0.498	0.448	0.034	3.143	0.107	0.50	90	pass	pass
1,1-Dichloroethane	0.517	0.539	0.522	0.552	0.556	0.561	0.595	0.549	0.026	3.143	0.083	0.50	110	pass	pass
Vinyl Acetate	0.263	0.373	0.263	0.259	0.317	0.375	0.372	0.317	0.056	3.143	0.176	1.00	32	pass	pass
Di-Isopropyl Ether	0.368	0.409	0.387	0.386	0.407	0.404	0.445	0.401	0.024	3.143	0.077	0.50	80	pass	pass
Ethyl Tert-Butyl Ether	0.349	0.397	0.387	0.394	0.396	0.416	0.448	0.398	0.030	3.143	0.094	0.50	80	pass	pass
cis-1,2-Dichloroethene	0.426	0.475	0.455	0.486	0.478	0.497	0.527	0.478	0.032	3.143	0.100	0.50	96	pass	pass
1,2-Dichloroethene (total)	0.928	1.006	0.950	0.978	0.991	1.032	1.067	0.993	0.047	3.143	0.149	0.50	199	pass	pass
2-Butanone	0.474	0.543	0.513	0.577	0.566	0.593	0.658	0.561	0.059	3.143	0.186	0.50	112	pass	pass
Ethyl Acetate	0.455	0.453	0.454	0.494	0.478	0.582	0.465	0.483	0.046	3.143	0.145	0.50	97	pass	pass
Methyl Acrylate	0.372	0.419	0.400	0.416	0.440	0.456	0.489	0.427	0.038	3.143	0.120	0.50	85	pass	pass
Tetrahydrofuran	0.389	0.457	0.386	0.421	0.427	0.421	0.479	0.426	0.034	3.143	0.106	0.50	85	pass	pass
Chloroform	0.515	0.553	0.517	0.546	0.546	0.552	0.601	0.547	0.029	3.143	0.090	0.50	109	pass	pass
1,1,1-Trichloroethane	0.477	0.519	0.473	0.499	0.501	0.525	0.525	0.503	0.022	3.143	0.068	0.50	101	pass	pass
Cyclohexane	0.340	0.362	0.353	0.360	0.363	0.391	0.391	0.366	0.019	3.143	0.060	0.50	73	pass	pass
Carbon Tetrachloride	0.490	0.511	0.474	0.497	0.507	0.513	0.549	0.506	0.023	3.143	0.074	0.50	101	pass	pass
Benzene	0.535	0.597	0.555	0.599	0.592	0.626	0.652	0.594	0.040	3.143	0.125	0.50	119	pass	pass
1,2-Dichloroethane	0.544	0.571	0.537	0.583	0.560	0.601	0.631	0.575	0.033	3.143	0.104	0.50	115	pass	pass
Isooctane	0.355	0.382	0.371	0.391	0.404	0.405	0.429	0.391	0.024	3.143	0.077	0.50	78	pass	pass
Tert-Amyl Methyl Ether	0.375	0.425	0.393	0.420	0.415	0.452	0.472	0.422	0.033	3.143	0.104	0.50	84	pass	pass
Heptane	0.348	0.391	0.387	0.391	0.411	0.436	0.435	0.400	0.031	3.143	0.097	0.50	80	pass	pass
Trichloroethene	0.453	0.498	0.470	0.488	0.511	0.517	0.550	0.498	0.032	3.143	0.101	0.50	100	pass	pass
Ethyl Acrylate	0.317	0.380	0.358	0.387	0.413	0.421	0.422	0.385	0.038	3.143	0.121	0.50	77	pass	pass
1,2-Dichloropropane	0.478	0.531	0.480	0.522	0.529	0.565	0.574	0.526	0.037	3.143	0.117	0.50	105	pass	pass
Dibromomethane	0.505	0.545	0.504	0.540	0.549	0.580	0.576	0.543	0.030	3.143	0.095	0.50	109	pass	pass
1,4-Dioxane	0.276	0.328	0.280	0.317	0.341	0.318	0.336	0.314	0.026	3.143	0.081	0.50	63	pass	pass
Methyl Methacrylate	0.323	0.351	0.320	0.339	0.367	0.412	0.429	0.363	0.043	3.143	0.134	0.50	73	pass	pass
Bromodichloromethane	0.514	0.560	0.500	0.538	0.556	0.562	0.592	0.546	0.031	3.143	0.098	0.50	109	pass	pass
cis-1,3-Dichloropropene	0.391	0.424	0.395	0.417	0.419	0.458	0.474	0.425	0.031	3.143	0.096	0.50	85	pass	pass
4-Methyl-2-Pentanone	0.527	0.542	0.541	0.555	0.553	0.611	0.591	0.560	0.030	3.143	0.094	0.50	112	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Toluene	0.663	0.690	0.621	0.631	0.620	0.632	0.634	0.642	0.026	3.143	0.081	0.50	128	pass	pass
Octane	0.342	0.365	0.320	0.346	0.332	0.364	0.362	0.347	0.017	3.143	0.055	0.50	69	pass	pass
trans-1,3-Dichloropropene	0.440	0.460	0.417	0.435	0.425	0.430	0.454	0.437	0.015	3.143	0.048	0.50	87	fail	pass
1,3-Dichloropropene (total)	0.831	0.884	0.812	0.852	0.844	0.888	0.929	0.863	0.040	3.143	0.125	0.50	173	pass	pass
Ethyl Methacrylate	0.321	0.337	0.284	0.313	0.321	0.314	0.328	0.317	0.017	3.143	0.052	0.50	63	pass	pass
1,1,2-Trichloroethane	0.627	0.621	0.543	0.554	0.556	0.556	0.582	0.577	0.034	3.143	0.108	0.50	115	pass	pass
Tetrachloroethene	0.629	0.616	0.572	0.578	0.566	0.570	0.587	0.588	0.025	3.143	0.077	0.50	118	pass	pass
2-Hexanone	0.375	0.398	0.336	0.372	0.389	0.367	0.374	0.373	0.020	3.143	0.061	0.50	75	pass	pass
Dibromochloromethane	0.529	0.550	0.498	0.500	0.499	0.503	0.509	0.513	0.020	3.143	0.062	0.50	103	pass	pass
1,2-Dibromoethane	0.521	0.545	0.474	0.508	0.480	0.490	0.490	0.501	0.025	3.143	0.079	0.50	100	pass	pass
Chlorobenzene	0.637	0.616	0.570	0.599	0.580	0.579	0.603	0.598	0.024	3.143	0.074	0.50	120	pass	pass
1,1,1,2-Tetrachloroethane	0.572	0.589	0.522	0.540	0.502	0.520	0.527	0.539	0.031	3.143	0.097	0.50	108	pass	pass
Ethylbenzene	0.388	0.407	0.368	0.390	0.379	0.379	0.396	0.387	0.013	3.143	0.040	0.50	77	fail	pass
m/p-Xylene	0.327	0.360	0.308	0.330	0.326	0.334	0.346	0.333	0.016	3.143	0.052	0.50	67	pass	pass
o-Xylene	0.305	0.330	0.289	0.309	0.317	0.307	0.318	0.311	0.013	3.143	0.040	0.50	62	fail	pass
Xylene (total)	0.632	0.691	0.597	0.640	0.643	0.641	0.665	0.644	0.029	3.143	0.091	0.50	129	pass	pass
Styrene	0.297	0.332	0.288	0.300	0.311	0.312	0.326	0.309	0.016	3.143	0.050	0.50	62	fail	pass
Bromoform	0.503	0.504	0.468	0.471	0.470	0.473	0.483	0.482	0.016	3.143	0.049	0.50	96	fail	pass
Cumene	0.291	0.319	0.289	0.294	0.300	0.307	0.315	0.302	0.012	3.143	0.037	0.50	60	fail	pass
Bromobenzene	0.455	0.501	0.437	0.463	0.449	0.461	0.458	0.461	0.020	3.143	0.062	0.50	92	pass	pass
1,1,2,2-Tetrachloroethane	0.555	0.590	0.538	0.554	0.551	0.547	0.567	0.557	0.017	3.143	0.053	0.50	111	pass	pass
1,2,3-Trichloropropane	0.502	0.544	0.505	0.504	0.497	0.485	0.499	0.505	0.018	3.143	0.058	0.50	101	pass	pass
n-Propylbenzene	0.289	0.360	0.298	0.306	0.311	0.312	0.338	0.316	0.025	3.143	0.077	0.50	63	pass	pass
2-Chlorotoluene	0.375	0.439	0.388	0.409	0.407	0.409	0.411	0.405	0.020	3.143	0.063	0.50	81	pass	pass
4-Ethyltoluene	0.322	0.370	0.325	0.330	0.351	0.342	0.351	0.342	0.017	3.143	0.054	0.50	68	pass	pass
1,3,5-Trimethylbenzene	0.351	0.387	0.334	0.361	0.365	0.371	0.380	0.364	0.018	3.143	0.056	0.50	73	pass	pass
Alpha Methyl Styrene	0.237	0.270	0.235	0.257	0.251	0.246	0.258	0.251	0.012	3.143	0.039	0.50	50	fail	pass
tert-Butylbenzene	0.316	0.358	0.316	0.323	0.338	0.331	0.347	0.333	0.016	3.143	0.050	0.50	67	pass	pass
1,2,4-Trimethylbenzene	0.353	0.412	0.368	0.380	0.401	0.398	0.404	0.388	0.022	3.143	0.068	0.50	78	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
sec-Butylbenzene	0.317	0.344	0.303	0.319	0.337	0.325	0.342	0.327	0.015	3.143	0.047	0.50	65	fail	pass
1,3-Dichlorobenzene	0.450	0.491	0.451	0.457	0.478	0.483	0.484	0.471	0.017	3.143	0.054	0.50	94	pass	pass
1,4-Dichlorobenzene	0.425	0.467	0.403	0.431	0.462	0.446	0.452	0.441	0.023	3.143	0.071	0.50	88	pass	pass
p-Isopropyltoluene	0.315	0.365	0.311	0.332	0.352	0.349	0.362	0.341	0.022	3.143	0.069	0.50	68	pass	pass
Benzyl Chloride	0.342	0.369	0.325	0.337	0.374	0.351	0.364	0.352	0.018	3.143	0.057	0.50	70	pass	pass
1,2-Dichlorobenzene	0.391	0.435	0.380	0.401	0.442	0.409	0.427	0.412	0.023	3.143	0.073	0.50	82	pass	pass
n-Butylbenzene	0.292	0.342	0.289	0.312	0.359	0.329	0.341	0.323	0.027	3.143	0.084	0.50	65	pass	pass
Hexachloroethane	0.391	0.395	0.380	0.383	0.380	0.383	0.380	0.385	0.006	3.143	0.019	0.50	77	fail	pass
1,2-Dibromo-3-chloropropane	0.353	0.419	0.382	0.377	0.486	0.437	0.430	0.412	0.045	3.143	0.141	0.50	82	pass	pass
1,2,4-Trichlorobenzene	0.185	0.262	0.228	0.210	0.411	0.318	0.262	0.268	0.076	4.143	0.316	0.50	54	pass	pass
Hexachlorobutadiene	0.521	0.603	0.549	0.542	0.621	0.596	0.534	0.567	0.039	5.143	0.201	0.50	113	pass	pass
Naphthalene	0.164	0.222	0.208	0.194	0.382	0.284	0.249	0.243	0.072	6.143	0.444	0.50	49	pass	pass

QC Summary

Volatile Organics in Air by GC/MS

Quality Control Reference List
Volatiles in Air

CLIENT: CenterPoint Properties
SDG: SSX07

Fraction: Volatile Organics in Air by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
TO 15 VOA Ext. List	D1527830AA	VBLKD88	10/05/2015 14:24:00
		LCSD88	10/05/2015 15:16:00
		LCSD88	10/05/2015 16:02:00
		8065067	10/06/2015 02:01:00
TO 15 VOA Ext. List	D1527830AB	VBLKD89	10/06/2015 18:21:00
		8065067	10/06/2015 22:53:00
TO 15 VOA Ext. List	D1528030AA	VBLKD90	10/07/2015 20:06:00
		LCSD90	10/07/2015 20:58:00
		LCSD90	10/07/2015 21:44:00
		8065068	10/08/2015 01:31:00

Fraction: Volatile Organics in Air by GC/MS

D1527830AA / VBLKD88 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	10/05/15	N.D.	ppb(v)	0.50	1.0
Chlorodifluoromethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Chloromethane	10/05/15	N.D.	ppb(v)	0.50	2.0
Freon 114	10/05/15	N.D.	ppb(v)	0.20	1.0
Vinyl Chloride	10/05/15	N.D.	ppb(v)	0.20	1.0
1,3-Butadiene	10/05/15	N.D.	ppb(v)	0.40	2.0
Bromomethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Chloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Dichlorofluoromethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Trichlorofluoromethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Pentane	10/05/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethene	10/05/15	N.D.	ppb(v)	0.20	1.0
Freon 113	10/05/15	N.D.	ppb(v)	0.50	2.0
Acetone	10/05/15	N.D.	ppb(v)	0.50	1.0
Carbon Disulfide	10/05/15	N.D.	ppb(v)	0.50	1.0
3-Chloropropene	10/05/15	N.D.	ppb(v)	0.20	1.0
Methylene Chloride	10/05/15	N.D.	ppb(v)	0.50	1.0
trans-1,2-Dichloroethene	10/05/15	N.D.	ppb(v)	0.20	1.0
Methyl t-Butyl Ether	10/05/15	N.D.	ppb(v)	0.20	1.0
Hexane	10/05/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
cis-1,2-Dichloroethene	10/05/15	N.D.	ppb(v)	0.20	1.0
2-Butanone	10/05/15	N.D.	ppb(v)	0.50	2.0
Chloroform	10/05/15	N.D.	ppb(v)	0.20	1.0
1,1,1-Trichloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Carbon Tetrachloride	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Benzene	10/05/15	N.D.	ppb(v)	0.20	1.0
Isooctane	10/05/15	N.D.	ppb(v)	0.20	1.0
Heptane	10/05/15	N.D.	ppb(v)	0.20	1.0
Trichloroethene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloropropane	10/05/15	N.D.	ppb(v)	0.20	1.0
Dibromomethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Bromodichloromethane	10/05/15	N.D.	ppb(v)	0.20	1.0
cis-1,3-Dichloropropene	10/05/15	N.D.	ppb(v)	0.20	1.0
4-Methyl-2-pentanone	10/05/15	N.D.	ppb(v)	0.50	2.0
Toluene	10/05/15	N.D.	ppb(v)	0.20	1.0
Octane	10/05/15	N.D.	ppb(v)	0.20	1.0
trans-1,3-Dichloropropene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,1,2-Trichloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Tetrachloroethene	10/05/15	N.D.	ppb(v)	0.20	1.0
2-Hexanone	10/05/15	N.D.	ppb(v)	0.50	1.0
Dibromochloromethane	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2-Dibromoethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Chlorobenzene	10/05/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

D1527830AA / VBLKD88					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1,1,1,2-Tetrachloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
Ethylbenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
m/p-Xylene	10/05/15	N.D.	ppb(v)	0.20	1.0
o-Xylene	10/05/15	N.D.	ppb(v)	0.20	1.0
Styrene	10/05/15	N.D.	ppb(v)	0.20	1.0
Bromoform	10/05/15	N.D.	ppb(v)	0.20	1.0
Cumene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,1,2,2-Tetrachloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2,3-Trichloropropane	10/05/15	N.D.	ppb(v)	0.20	1.0
Bromobenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
4-Ethyltoluene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,3,5-Trimethylbenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2,4-Trimethylbenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,3-Dichlorobenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,4-Dichlorobenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichlorobenzene	10/05/15	N.D.	ppb(v)	0.20	1.0
Hexachloroethane	10/05/15	N.D.	ppb(v)	0.20	1.0

D1527830AB / VBLKD89					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
cis-1,2-Dichloroethene	10/06/15	N.D.	ppb(v)	0.20	1.0

D1528030AA / VBLKD90					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	10/07/15	N.D.	ppb(v)	0.50	1.0
Chlorodifluoromethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Chloromethane	10/07/15	N.D.	ppb(v)	0.50	2.0
Freon 114	10/07/15	N.D.	ppb(v)	0.20	1.0
Vinyl Chloride	10/07/15	N.D.	ppb(v)	0.20	1.0
1,3-Butadiene	10/07/15	N.D.	ppb(v)	0.40	2.0
Bromomethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Chloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Dichlorofluoromethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Trichlorofluoromethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Pentane	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethene	10/07/15	N.D.	ppb(v)	0.20	1.0
Freon 113	10/07/15	N.D.	ppb(v)	0.50	2.0
Acetone	10/07/15	N.D.	ppb(v)	0.50	1.0
Carbon Disulfide	10/07/15	N.D.	ppb(v)	0.50	1.0
3-Chloropropene	10/07/15	N.D.	ppb(v)	0.20	1.0
Methylene Chloride	10/07/15	N.D.	ppb(v)	0.50	1.0
trans-1,2-Dichloroethene	10/07/15	N.D.	ppb(v)	0.20	1.0
Methyl t-Butyl Ether	10/07/15	N.D.	ppb(v)	0.20	1.0
Hexane	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

D1528030AA / VBLKD90 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
cis-1,2-Dichloroethene	10/07/15	N.D.	ppb(v)	0.20	1.0
2-Butanone	10/07/15	N.D.	ppb(v)	0.50	2.0
Chloroform	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1,1-Trichloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Carbon Tetrachloride	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Benzene	10/07/15	N.D.	ppb(v)	0.20	1.0
Isooctane	10/07/15	N.D.	ppb(v)	0.20	1.0
Heptane	10/07/15	N.D.	ppb(v)	0.20	1.0
Trichloroethene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloropropane	10/07/15	N.D.	ppb(v)	0.20	1.0
Dibromomethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Bromodichloromethane	10/07/15	N.D.	ppb(v)	0.20	1.0
cis-1,3-Dichloropropene	10/07/15	N.D.	ppb(v)	0.20	1.0
4-Methyl-2-pentanone	10/07/15	N.D.	ppb(v)	0.50	2.0
Toluene	10/07/15	N.D.	ppb(v)	0.20	1.0
Octane	10/07/15	N.D.	ppb(v)	0.20	1.0
trans-1,3-Dichloropropene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1,2-Trichloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Tetrachloroethene	10/07/15	N.D.	ppb(v)	0.20	1.0
2-Hexanone	10/07/15	N.D.	ppb(v)	0.50	1.0
Dibromochloromethane	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2-Dibromoethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Chlorobenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1,1,2-Tetrachloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
Ethylbenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
m/p-Xylene	10/07/15	N.D.	ppb(v)	0.20	1.0
o-Xylene	10/07/15	N.D.	ppb(v)	0.20	1.0
Styrene	10/07/15	N.D.	ppb(v)	0.20	1.0
Bromoform	10/07/15	N.D.	ppb(v)	0.20	1.0
Cumene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,1,2,2-Tetrachloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2,3-Trichloropropane	10/07/15	N.D.	ppb(v)	0.20	1.0
Bromobenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
4-Ethyltoluene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,3,5-Trimethylbenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2,4-Trimethylbenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,3-Dichlorobenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,4-Dichlorobenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichlorobenzene	10/07/15	N.D.	ppb(v)	0.20	1.0
Hexachloroethane	10/07/15	N.D.	ppb(v)	0.20	1.0



Lancaster Laboratories
Environmental

FORM 01(TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media: N/A
Canister ID: N/A
Pressure Received: 14.7 psia
Final Pressure: 14.7 psia
Nominal Volume: 250 cc
Injection Volume: 250 cc
Instrument ID: 10145

Lab Sample ID: VBLKD88
Lab File ID: dj00073.d
Date Collected:
Date Received:
Analyzed Date: 10/05/2015
Analyzed Time: 14:24
Dilution Factor: 1

Number TICs Found:

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
No Tentatively Identified Compounds Found				

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Lancaster Laboratories
Environmental

FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media: N/A
Canister ID: N/A
Pressure Received: 14.7 psia
Final Pressure: 14.7 psia
Nominal Volume: 250 cc
Injection Volume: 250 cc
Instrument ID: 10145

Lab Sample ID: VBLKD90
Lab File ID: dj00138.d
Date Collected:
Date Received:
Analyzed Date: 10/07/2015
Analyzed Time: 20:06
Dilution Factor: 1

Number TICs Found:

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
No Tentatively Identified Compounds Found				

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

SDG: SSX07

Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Analyte	Batch: D1527830AA (Sample number(s): 8065067) Batch: D1527830AB (Sample number(s): 8065067)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Dichlorodifluoromethane	10	11.72	12.09	117	121	61-149	3	25
Chloromethane	10.3	6.88	7.39	67	72	54-118	7	25
Freon 114	10.2	10.48	10.97	103	108	63-123	5	25
Vinyl Chloride	10.2	9.19	9.86	90	97	70-130	7	25
1,3-Butadiene	10.5	8.20	8.65	78	82	57-138	5	25
Bromomethane	10.1	9.37	9.89	93	98	70-130	5	25
Chloroethane	10	8.74	9.35	87	94	63-119	7	25
Trichlorofluoromethane	10	12.01	12.22	120	122	70-130	2	25
1,1-Dichloroethene	10.6	10.89	11.27	103	106	61-128	3	25
Freon 113	10.5	10.03	10.45	96	99	63-114	4	25
Acetone	10.7	10.23	11.04	96	103	61-134	8	25
Carbon Disulfide	10.2	10.24	10.42	100	102	55-121	2	25
Methylene Chloride	10.6	10.87	11.16	103	105	70-130	3	25
trans-1,2-Dichloroethene	10.5	10.35	10.68	99	102	66-121	3	25
Methyl t-Butyl Ether	10.7	10.39	10.89	97	102	52-129	5	25
Hexane	10.8	8.08	8.67	75	80	63-117	7	25
1,1-Dichloroethane	10.5	9.79	10.45	93	100	67-124	7	25
cis-1,2-Dichloroethene	10.6	10.08	10.68	95	101	65-121	6	25
2-Butanone	10.8	10.17	11.34	94	105	60-135	11	25
Chloroform	10.6	10.8	11.49	102	108	70-130	6	25
1,1,1-Trichloroethane	10.5	11.55	12.09	110	115	70-130	5	25
Carbon Tetrachloride	10.4	12.36	12.85	119	124	70-130	4	25
1,2-Dichloroethane	10.5	11.66	12.23	111	117	70-130	5	25
Benzene	10.5	9.40	10.1	90	96	70-130	7	25
Heptane	10.7	7.73	8.39	72	78	56-123	8	25
Trichloroethene	10.5	8.51	9.20	81	88	70-130	8	25
1,2-Dichloropropane	10.7	9.08	9.76	85	91	70-130	7	25
Bromodichloromethane	10.5	10.82	11.54	103	110	62-129	6	25
cis-1,3-Dichloropropene	10.9	10.86	11.77	100	108	64-136	8	25
4-Methyl-2-pentanone	10.8	8.40	9.15	78	85	53-140	9	25
Toluene	10.7	9.49	10.14	89	95	70-130	7	25
trans-1,3-Dichloropropene	10	10.47	11.2	105	112	61-126	7	25
1,1,2-Trichloroethane	10.7	9.67	10.33	90	97	59-131	7	25
Tetrachloroethene	10.4	8.22	8.87	79	85	70-130	8	25
2-Hexanone	11	9.39	10.49	85	95	47-150	11	25
Dibromochloromethane	10.8	10.06	10.75	93	100	65-127	7	25
1,2-Dibromoethane	10.5	9.74	10.52	93	100	65-126	8	25
Chlorobenzene	10.8	9.04	9.77	84	90	70-130	8	25
Ethylbenzene	10.8	9.76	10.57	90	98	70-130	8	25
m/p-Xylene	21.2	18.91	20.36	89	96	70-130	7	25
o-Xylene	10.9	10.27	11.05	94	101	70-130	7	25

SDG: SSX07

Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Analyte	Batch: D1527830AA (Sample number(s): 8065067)							
	Batch: D1527830AB (Sample number(s): 8065067)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Styrene	10.8	9.35	10.33	87	96	64-130	10	25
Bromoform	10.6	10.46	11.34	99	107	64-141	8	25
1,1,2,2-Tetrachloroethane	10.9	10.02	10.79	92	99	58-133	7	25
4-Ethyltoluene	10.7	9.37	10.07	88	94	59-126	7	25
1,3,5-Trimethylbenzene	10.7	9.57	10.32	89	96	61-132	7	25
1,2,4-Trimethylbenzene	10.8	9.50	10.33	88	96	60-128	8	25
1,3-Dichlorobenzene	10.9	9.64	10.65	88	98	63-125	10	25
1,4-Dichlorobenzene	10.7	9.45	10.48	88	98	63-127	10	25
1,2-Dichlorobenzene	10.8	9.30	10.24	86	95	62-132	10	25

Analyte	Batch: D1528030AA (Sample number(s): 8065068)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Dichlorodifluoromethane	10	12.24	11.1	122	111	61-149	10	25
Chloromethane	10.3	6.23	5.60	60	54	54-118	11	25
Freon 114	10.2	10.72	9.38	105	92	63-123	13	25
Vinyl Chloride	10.2	8.61	7.58	84	74	70-130	13	25
1,3-Butadiene	10.5	7.63	6.76	73	64	57-138	12	25
Bromomethane	10.1	9.39	8.30	93	82	70-130	12	25
Chloroethane	10	8.62	7.63	86	76	63-119	12	25
Trichlorofluoromethane	10	13.51	11.77	135 *	118	70-130	14	25
1,1-Dichloroethene	10.6	11.66	10.19	110	96	61-128	13	25
Freon 113	10.5	10.9	9.55	104	91	63-114	13	25
Acetone	10.7	10.21	9.47	95	88	61-134	8	25
Carbon Disulfide	10.2	10.28	9.12	101	89	55-121	12	25
Methylene Chloride	10.6	11.26	9.80	106	92	70-130	14	25
trans-1,2-Dichloroethene	10.5	10.99	9.39	105	89	66-121	16	25
Methyl t-Butyl Ether	10.7	10.24	9.72	96	91	52-129	5	25
Hexane	10.8	8.13	7.14	75	66	63-117	13	25
1,1-Dichloroethane	10.5	10.07	8.83	96	84	67-124	13	25
cis-1,2-Dichloroethene	10.6	10.16	8.99	96	85	65-121	12	25
2-Butanone	10.8	9.44	8.89	87	82	60-135	6	25
Chloroform	10.6	11.41	10.36	108	98	70-130	10	25
1,1,1-Trichloroethane	10.5	12.79	11.34	122	108	70-130	12	25
Carbon Tetrachloride	10.4	14.02	12.37	135 *	119	70-130	13	25
1,2-Dichloroethane	10.5	13.12	11.6	125	111	70-130	12	25
Benzene	10.5	9.74	8.62	93	82	70-130	12	25
Heptane	10.7	8.05	7.15	75	67	56-123	12	25
Trichloroethene	10.5	9.30	8.14	89	77	70-130	13	25
1,2-Dichloropropane	10.7	8.93	8.17	83	76	70-130	9	25

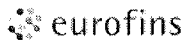
SDG: SSX07

Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

LCS: LCSD90 LCSD: LCSDD90 Analyte	Batch: D1528030AA (Sample number(s): 8065068)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Bromodichloromethane	10.5	11.84	10.79	113	103	62-129	9	25
cis-1,3-Dichloropropene	10.9	11.14	10.2	102	94	64-136	9	25
4-Methyl-2-pentanone	10.8	8.52	7.74	79	72	53-140	10	25
Toluene	10.7	9.05	8.49	85	79	70-130	6	25
trans-1,3-Dichloropropene	10	10.06	9.15	101	92	61-126	9	25
1,1,2-Trichloroethane	10.7	9.25	8.65	86	81	59-131	7	25
Tetrachloroethene	10.4	8.41	7.72	81	74	70-130	9	25
2-Hexanone	11	8.57	8.20	78	75	47-150	4	25
Dibromochloromethane	10.8	10.37	9.54	96	88	65-127	8	25
1,2-Dibromoethane	10.5	9.62	8.96	92	85	65-126	7	25
Chlorobenzene	10.8	8.82	8.32	82	77	70-130	6	25
Ethylbenzene	10.8	9.54	9.01	88	83	70-130	6	25
m/p-Xylene	21.2	18.58	17.49	88	82	70-130	6	25
o-Xylene	10.9	10.11	9.44	93	87	70-130	7	25
Styrene	10.8	9.06	8.49	84	79	64-130	6	25
Bromoform	10.6	10.72	9.79	101	92	64-141	9	25
1,1,2,2-Tetrachloroethane	10.9	9.49	8.85	87	81	58-133	7	25
4-Ethyltoluene	10.7	9.24	8.66	86	81	59-126	7	25
1,3,5-Trimethylbenzene	10.7	9.67	9.05	90	85	61-132	7	25
1,2,4-Trimethylbenzene	10.8	9.48	8.90	88	82	60-128	6	25
1,3-Dichlorobenzene	10.9	9.38	8.83	86	81	63-125	6	25
1,4-Dichlorobenzene	10.7	9.25	8.71	86	81	63-127	6	25
1,2-Dichlorobenzene	10.8	9.16	8.60	85	80	62-132	6	25



Lancaster Laboratories
Environmental

FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: dj00000.d

BFB Injection Date: 10/01/2015

Instrument ID: 10145

BFB Injection Time: 11:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	14.1
75	30.0% - 66.0% of mass 95	45.4
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.6
173	< 2.0% of mass 174	0.8 (0.8)
174	> 50.0% of mass 95	97.2
175	4.0% - 9.0% of mass 174	7.1 (7.3)
176	93.0% - 101.0% of mass 174	93.8 (96.5)
177	5.0% - 9.0% of mass 176	6.3 (6.7)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD001	dj00003.d	10/01/2015	13:15
VSTD002	dj00004.d	10/01/2015	13:58
VSTD005	dj00005.d	10/01/2015	14:42
VSTD010	dj00006.d	10/01/2015	15:28
VSTD025	dj00007.d	10/01/2015	16:12
VSTD070	dj00008.d	10/01/2015	17:08
VBLKD86	dj00011.d	10/01/2015	19:41
LCSD86	dj00012.d	10/01/2015	20:58
LCSD86	dj00013.d	10/01/2015	21:44
MDL0.5	dj00016.d	10/02/2015	00:01
MDL0.2	dj00017.d	10/02/2015	00:44



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Environmental

FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: dj00070.d

BFB Injection Date: 10/05/2015

Instrument ID: 10145

BFB Injection Time: 12:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	15.3
75	30.0% - 66.0% of mass 95	51.8
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.5
173	< 2.0% of mass 174	0.8 (0.8)
174	> 50.0% of mass 95	92.8
175	4.0% - 9.0% of mass 174	6.7 (7.3)
176	93.0% - 101.0% of mass 174	90.0 (97.0)
177	5.0% - 9.0% of mass 176	5.8 (6.5)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	dj00071.d	10/05/2015	12:46
VBLKD88	dj00073.d	10/05/2015	14:24
LCS88	dj00074.d	10/05/2015	15:16
LCSDD88	dj00075.d	10/05/2015	16:02
8064547	dj00076.d	10/05/2015	17:05
8060548	dj00077.d	10/05/2015	17:55
8060549	dj00078.d	10/05/2015	18:45
8060550	dj00079.d	10/05/2015	19:35
8060551	dj00080.d	10/05/2015	20:24
8060552	dj00081.d	10/05/2015	21:13
8060553	dj00082.d	10/05/2015	22:03
8060554	dj00083.d	10/05/2015	22:49
8064885	dj00084.d	10/05/2015	23:39
8065067	dj00087.d	10/06/2015	02:01
8065282	dj00092.d	10/06/2015	06:03
8065283	dj00093.d	10/06/2015	06:52
8065284	dj00094.d	10/06/2015	07:35
8065285	dj00095.d	10/06/2015	08:24
8060549	dj00096.d	10/06/2015	09:14
8060552DL	dj00097.d	10/06/2015	09:58
8064886	dj00098.d	10/06/2015	10:48
8064887	dj00099.d	10/06/2015	11:37



Lancaster Laboratories
Environmental

FORM 05
VOLATILE ORGANICS IN AIR
INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

SDG No.:

Lab File ID: dj00100.d

BFB Injection Date: 10/06/2015

Instrument ID: 10145

BFB Injection Time: 12:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	13.5
75	30.0% - 66.0% of mass 95	46.4
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.6
173	< 2.0% of mass 174	0.7 (0.7)
174	> 50.0% of mass 95	99.6
175	4.0% - 9.0% of mass 174	7.0 (7.1)
176	93.0% - 101.0% of mass 174	96.4 (96.7)
177	5.0% - 9.0% of mass 176	6.3 (6.6)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	dj00105.d	10/06/2015	16:38
VBLKD89	dj00107.d	10/06/2015	18:21
8064885DL	dj00111.d	10/06/2015	22:07
8065067DL	dj00112.d	10/06/2015	22:53
8065278	dj00113.d	10/06/2015	23:36
8065279	dj00114.d	10/07/2015	00:21
8065280	dj00115.d	10/07/2015	01:04
8065281	dj00116.d	10/07/2015	01:48
8065282DL	dj00117.d	10/07/2015	02:32
8065283DL	dj00118.d	10/07/2015	03:15
8065284DL	dj00119.d	10/07/2015	04:01
cc910	dj00120.d	10/07/2015	04:47
cc911	dj00121.d	10/07/2015	05:33
cc941	dj00122.d	10/07/2015	06:19
cc997	dj00123.d	10/07/2015	07:05
cc966	dj00124.d	10/07/2015	07:50
cc1015	dj00125.d	10/07/2015	08:36
cc1097	dj00126.d	10/07/2015	09:22

SDG No.:

Lab File ID: dj00130.d

BFB Injection Date: 10/07/2015

Instrument ID: 10145

BFB Injection Time: 12:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	15.9
75	30.0% - 66.0% of mass 95	54.9
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.4
173	< 2.0% of mass 174	0.8 (0.9)
174	> 50.0% of mass 95	96.2
175	4.0% - 9.0% of mass 174	6.9 (7.2)
176	93.0% - 101.0% of mass 174	92.7 (96.4)
177	5.0% - 9.0% of mass 176	6.0 (6.5)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	dj00136.d	10/07/2015	18:23
VBLKD90	dj00138.d	10/07/2015	20:06
LCSD90	dj00139.d	10/07/2015	20:58
LCSD90	dj00140.d	10/07/2015	21:44
8068003	dj00141.d	10/07/2015	23:01
8068005	dj00142.d	10/07/2015	23:50
8068009	dj00143.d	10/08/2015	00:40
8065068	dj00144.d	10/08/2015	01:31
8065277	dj00145.d	10/08/2015	02:20
8070355	dj00153.d	10/08/2015	08:23
8070355	dj00159.d	10/08/2015	12:56

SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/05/2015

Lab File ID: dj00071.d

Analyzed Time: 12:46

Instrument ID: 10145

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	654609	7.29	2524813	9.22	2315181	15.45
UPPER LIMIT	916453	7.62	3534738	9.55	3241253	15.78
LOWER LIMIT	392765	6.96	1514888	8.89	1389109	15.12
LAB SAMPLE ID						
VBLKD88	656118	7.28	2551666	9.20	2203052	15.44
LCSD88	664535	7.29	2618234	9.21	2315144	15.45
LCSD88	714970	7.28	2807301	9.20	2533107	15.44
8064547	653534	7.28	2759557	9.21	2572560	15.45
8060548	813540	7.28	3087087	9.21	2780369	15.44
8060549	927463 *	7.28	3529068	9.21	3268530 *	15.44
8060550	852053	7.28	3243222	9.21	2984405	15.44
8060551	828744	7.27	3132939	9.20	2833325	15.44
8060552	826917	7.28	3138208	9.21	2752379	15.44
8060553	853967	7.28	3166870	9.21	2998129	15.44
8060554	731668	7.28	2694443	9.20	2294222	15.44
8064885	667687	7.29	2467151	9.21	2168680	15.45
8065067	783205	7.28	2984290	9.21	2505169	15.44
8065282	641759	7.28	2351919	9.21	1915284	15.44
8065283	760237	7.31	2972289	9.26	2649795	15.45
8065284	701479	7.28	2514189	9.21	2262841	15.44
8065285	618114	7.29	2328471	9.22	1970973	15.44
8060549	743365	7.28	2725531	9.21	2600528	15.44
8060552DL	646922	7.28	2412317	9.20	2102547	15.44
8064886	696023	7.28	2642650	9.21	2651712	15.44
8064887	815168	7.29	3080287	9.21	2854007	15.44

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.



Lancaster Laboratories
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FORM 08
VOLATILE ORGANICS IN AIR
INSTRUMENT STANDARD AREA AND RETENTION TIME SUMMARY

SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/06/2015

Lab File ID: dj00105.d

Analyzed Time: 16:38

Instrument ID: 10145

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	679647	7.29	2568110	9.22	2363463	15.45
UPPER LIMIT	951506	7.62	3595354	9.55	3308848	15.78
LOWER LIMIT	407788	6.96	1540866	8.89	1418078	15.12
LAB SAMPLE ID						
VBLKD89	600933	7.28	2331829	9.21	2109402	15.44
8064885DL	590024	7.28	2247312	9.21	2044459	15.44
8065067DL	502122	7.28	1897030	9.21	1742374	15.44
8065278	555368	7.28	2032935	9.21	1987506	15.44
8065279	621295	7.28	2311554	9.21	2655098	15.44
8065280	629283	7.28	2308797	9.21	2259255	15.44
8065281	643680	7.29	2557466	9.21	2545845	15.44
8065282DL	597597	7.28	2281310	9.21	2170493	15.44
8065283DL	566635	7.28	2089584	9.21	1928229	15.44
8065284DL	508670	7.28	1977903	9.21	1936983	15.44
cc910	539522	7.28	2003882	9.21	2312336	15.44
cc911	525020	7.28	1964395	9.20	1828752	15.44
cc941	506746	7.28	1892926	9.21	1767825	15.44
cc997	467486	7.28	1769872	9.21	1719865	15.44
cc966	534921	7.28	2035699	9.21	1900780	15.44
cc1015	437410	7.28	1602674	9.21	1454842	15.44
cc1097	433724	7.30	1649778	9.22	1528898	15.45

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.



Lancaster Laboratories
Environmental

FORM 08
VOLATILE ORGANICS IN AIR
INSTRUMENT STANDARD AREA AND RETENTION TIME SUMMARY

SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/07/2015

Lab File ID: dj00136.d

Analyzed Time: 18:23

Instrument ID: 10145

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	670419	7.27	2456843	9.20	2305059	15.42
UPPER LIMIT	938587	7.60	3439580	9.53	3227083	15.75
LOWER LIMIT	402251	6.94	1474106	8.87	1383035	15.09
LAB SAMPLE ID						
VBLKD90	511526	7.23	1942455	9.16	1787987	15.42
LCSD90	532579	7.29	1952540	9.21	1870484	15.44
LCSDD90	594247	7.29	2271605	9.22	2173665	15.45
8068003	616786	7.29	2279107	9.21	2084483	15.44
8068005	741645	7.28	2631078	9.21	2257426	15.42
8068009	602348	7.28	2008823	9.20	1993975	15.42
8065068	692997	7.29	2555160	9.21	2470511	15.44
8065277	883642	7.28	3253689	9.20	3045554	15.42
8070355	616575	7.31	2346990	9.23	2471282	15.44
8070355	873753	7.30	3210351	9.22	3173619	15.45

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.

Lower Limit: -40% of the internal standard area.

R.T.: Upper limit: +0.33 of the internal standard R.T.

Lower limit: -0.33 of the internal standard R.T.

Sample Data

Volatile Organics in Air by GC/MS

SVMP5

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8065067

Data file: /chem/HP10145.i/15oct05.b/dj00087.d Injection date and time: 06-OCT-2015 02:01
 Data file Sample Info. Line: 8065067;50;D1527830AA;SVMP5;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1527830AA
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct05.b/dj00073.d

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct05.b/dj00071.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 100
 Canister Pressure after dilution (Xa): 24.4 psia Canister Pressure before dilution (Ya): 12.2 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 50 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.277(0.012)	523	130	783205 (20)	10.00		392766 - 916452
51) 1,4-Difluorobenzene	9.210(0.012)	686	114	2984290 (18)	10.00		1514888 - 3534738
71) Chlorobenzene-d5	15.436(0.012)	1211	117	2505169 (8)	10.00		1389109 - 3241253

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)	2.403(-0.000)	62	498633	9.021	9021.48			0.2	1
7) 1,3-Butadiene	(1)	2.439(0.001)	54	36488	1.001	1000.86		J	0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.2	1
17) 1,1-Dichloroethene	(1)	3.850(-0.000)	61	170090	1.797	1797.04			0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)			Not Detected					0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)	5.048(0.000)	61	887964	11.211	11210.62			0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.862(0.000)	61	14735666	187.871	187870.98		E	0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)	9.649(-0.000)	130	1276396	11.795	11795.26			0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)			Not Detected					0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

E = Compound concentration above calibration range.

SVMP5

Lancaster Laboratories, Inc. Analysis Summary for GC/MS Volatiles in Air 8065067

Data file: /chem/HP10145.i/15oct05.b/dj00087.d Injection date and time: 06-OCT-2015 02:01
 Data file Sample Info. Line: 8065067;50;D1527830AA;SVMP5;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1527830AA
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct05.b/dj00073.d

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct05.b/dj00071.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

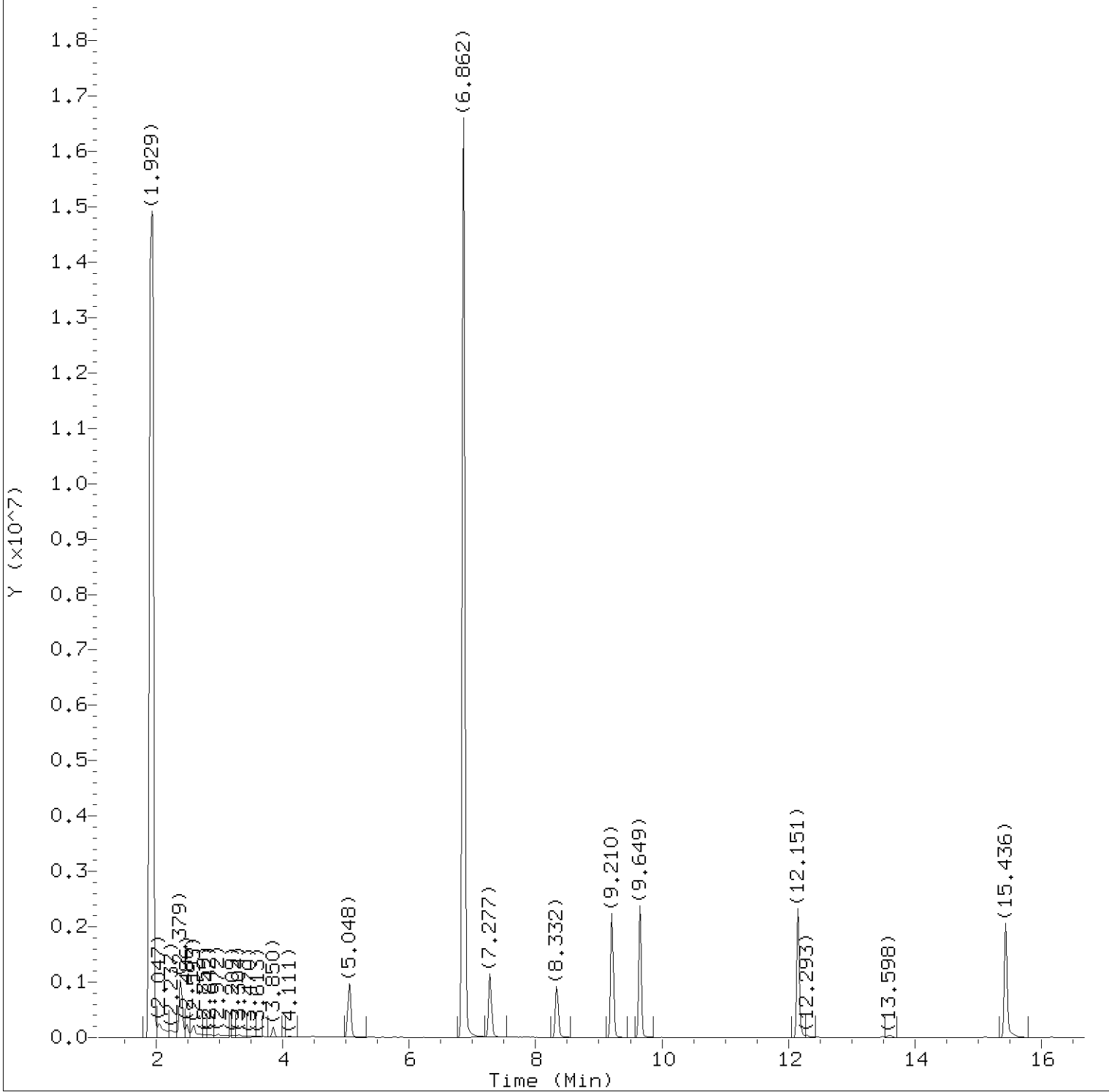
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 100
 Canister Pressure after dilution (Xa): 24.4 psia Canister Pressure before dilution (Ya): 12.2 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 50 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)			Not Detected					0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:11. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:08. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

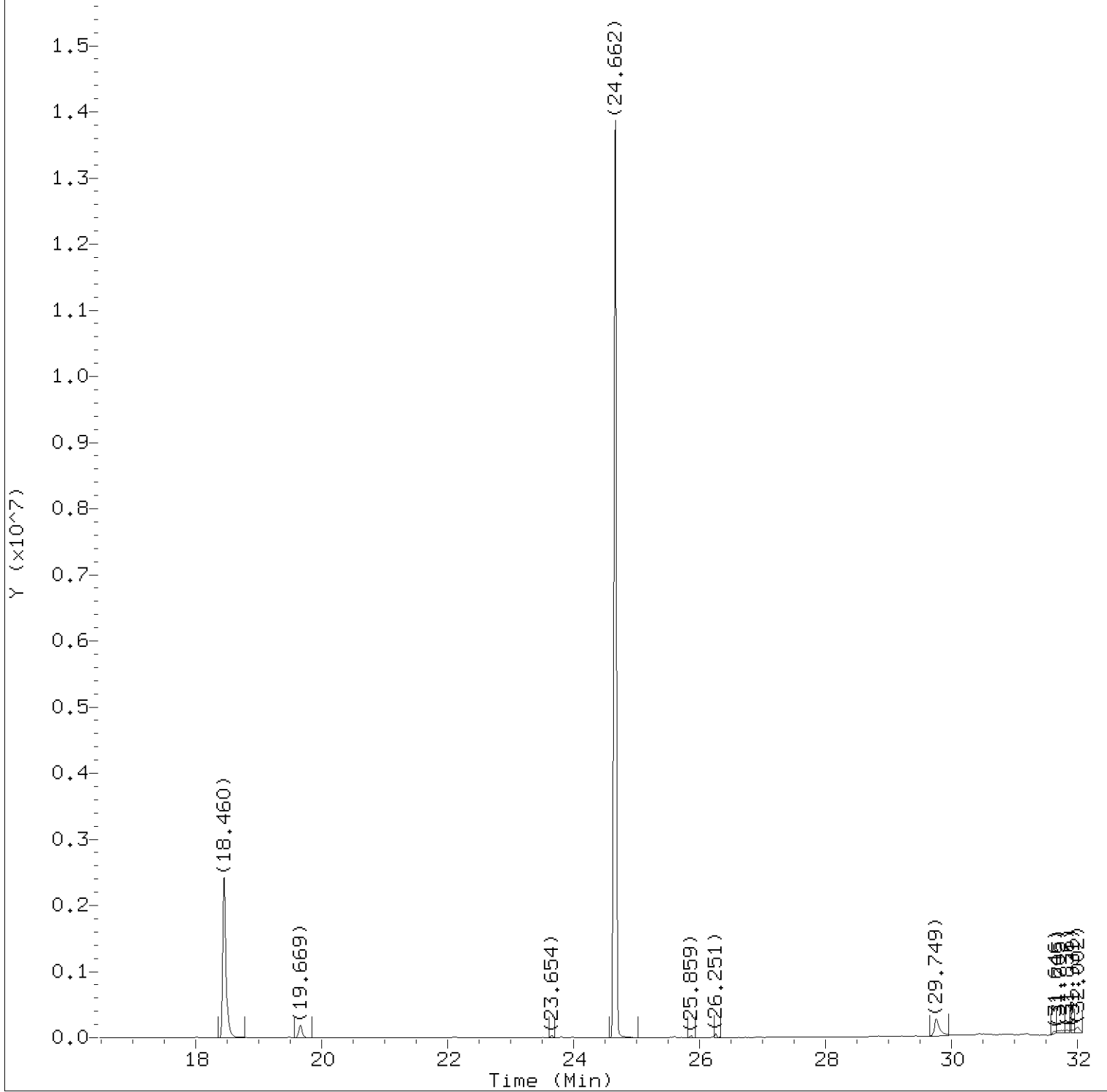
Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 09:11.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 09:11.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

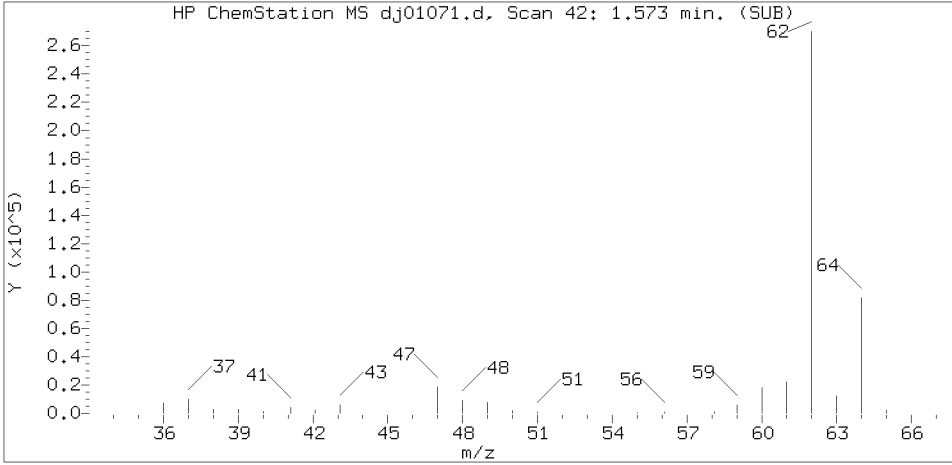
Sample Name: SVMP5

Lab Sample ID: 8065067

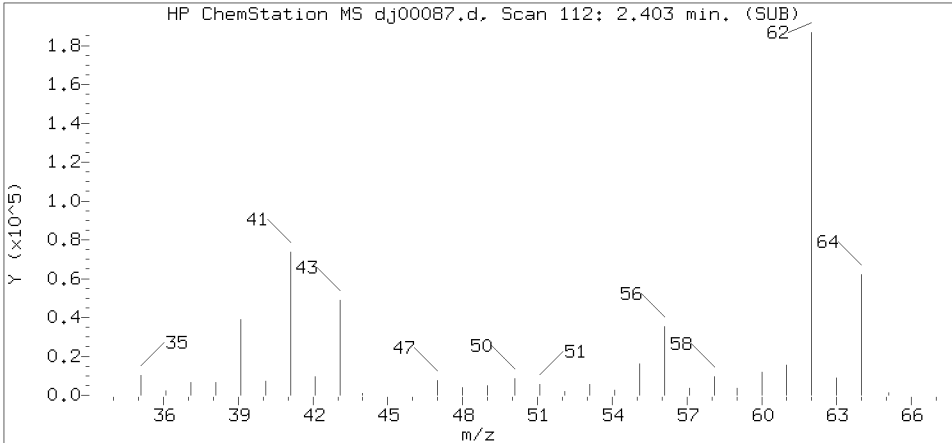
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
6) Vinyl Chloride	(1)	2.403	62	498633	9.021
7) 1,3-Butadiene	(1)	2.439	54	36488	1.001
17) 1,1-Dichloroethene	(1)	3.850	61	170090	1.797
28) trans-1,2-Dichloroethene	(1)	5.048	61	887964	11.211
35) cis-1,2-Dichloroethene	(1)	6.862	61	14735666	187.871
40)*Bromochloromethane	(1)	7.277	130	783205	10.000
51)*1,4-Difluorobenzene	(2)	9.210	114	2984290	10.000
52) Trichloroethene	(2)	9.649	130	1276396	11.795
71)*Chlorobenzene-d5	(3)	15.436	117	2505169	10.000

* = Compound is an internal standard.

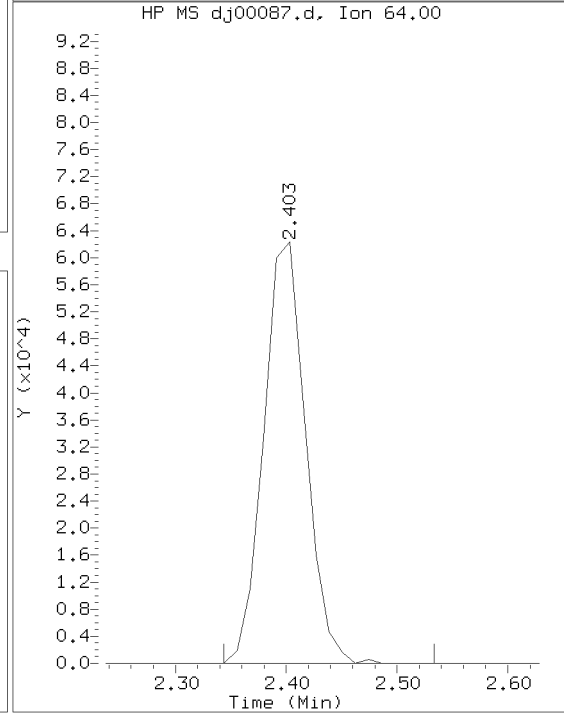
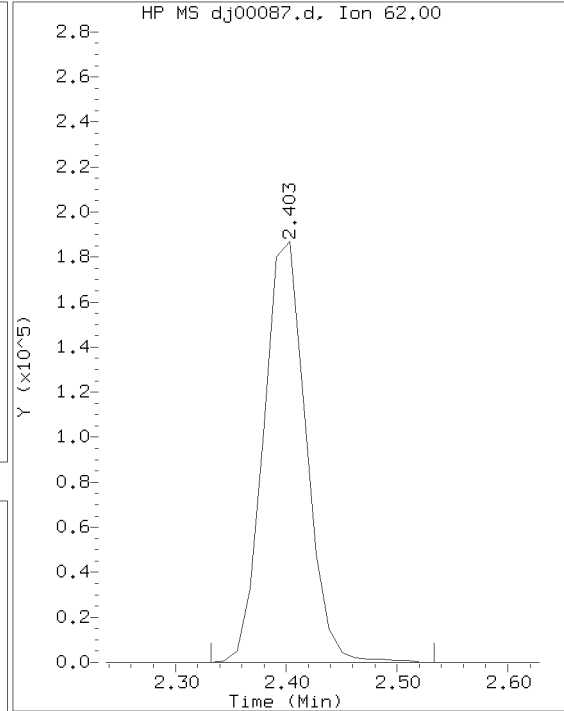
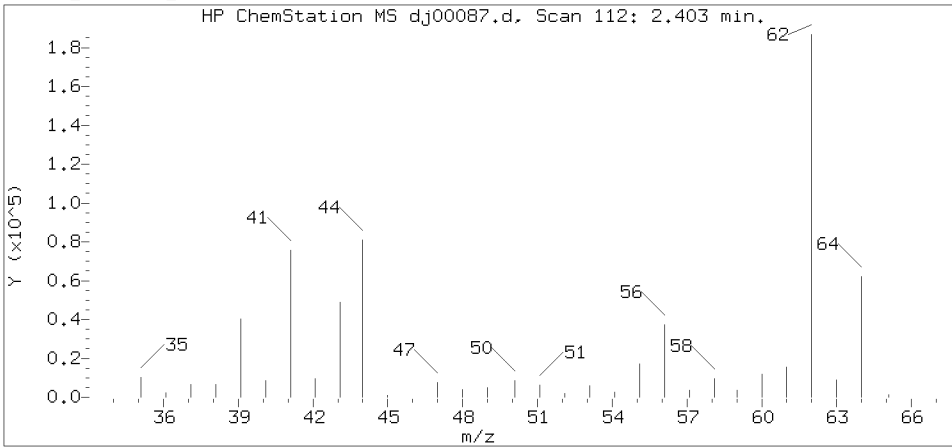
Reference Standard Spectrum for Vinyl Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

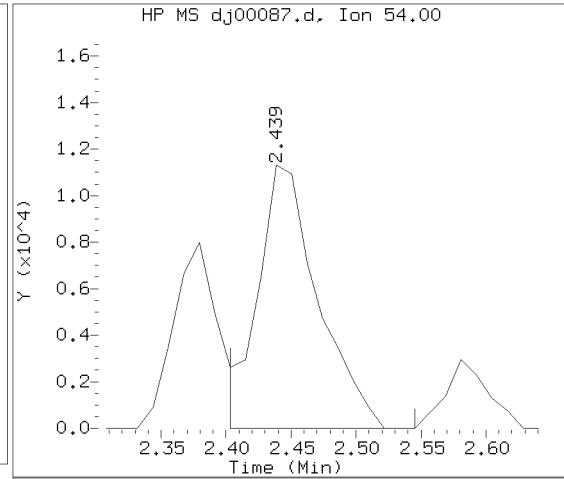
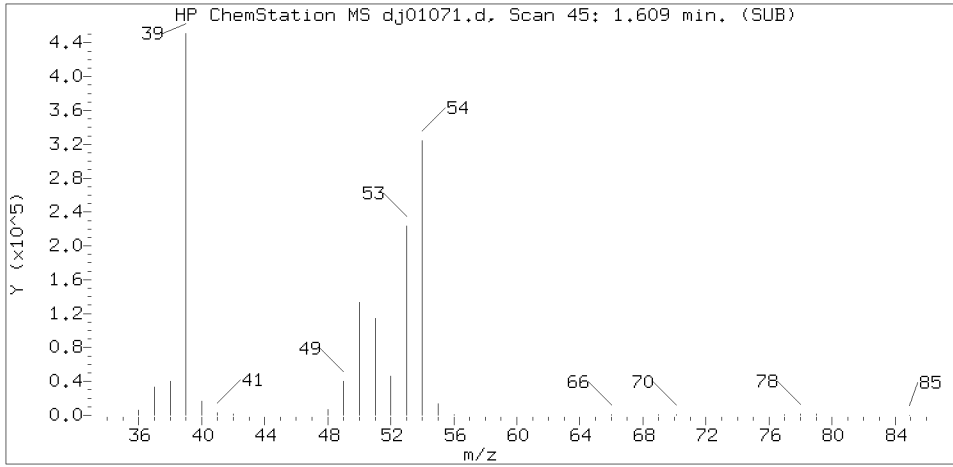
Sublist used: 292

Sample Name: SVMP5

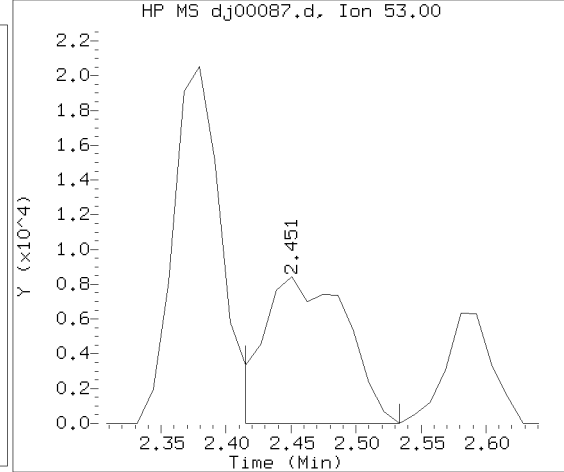
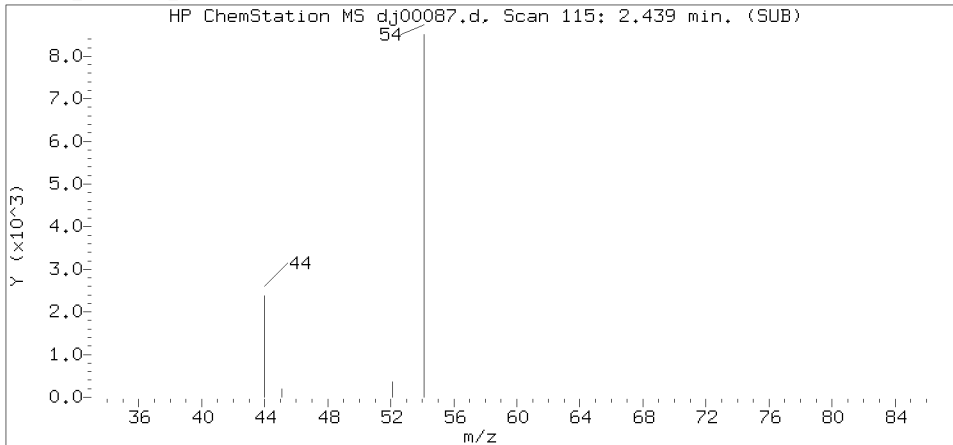
Lab Sample ID: 8065067

Compound Number : 6
 Compound Name : Vinyl Chloride
 Scan Number : 112
 Retention Time (minutes): 2.403
 Relative Retention Time : -0.00054
 Quant Ion : 62.00
 Area (flag) : 498633
 Concentration (ppb(v)) : 9.0215

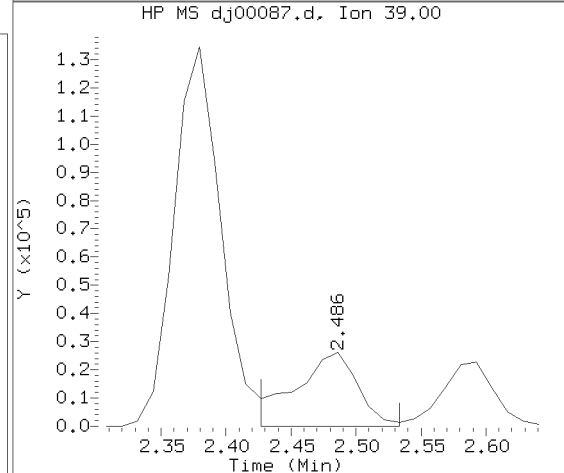
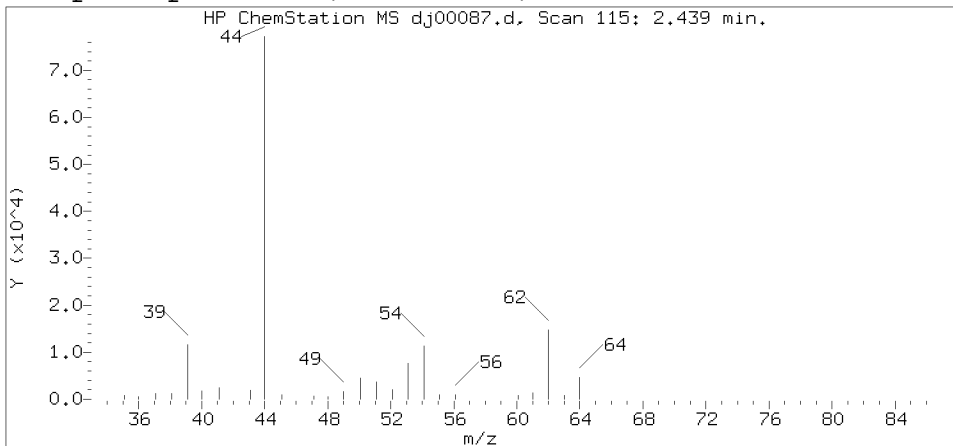
Reference Standard Spectrum for 1,3-Butadiene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

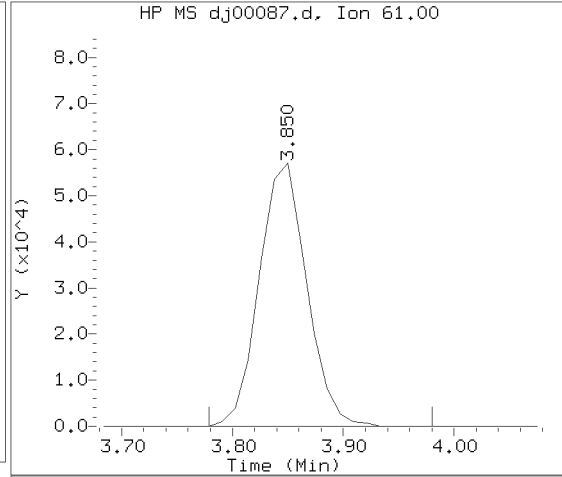
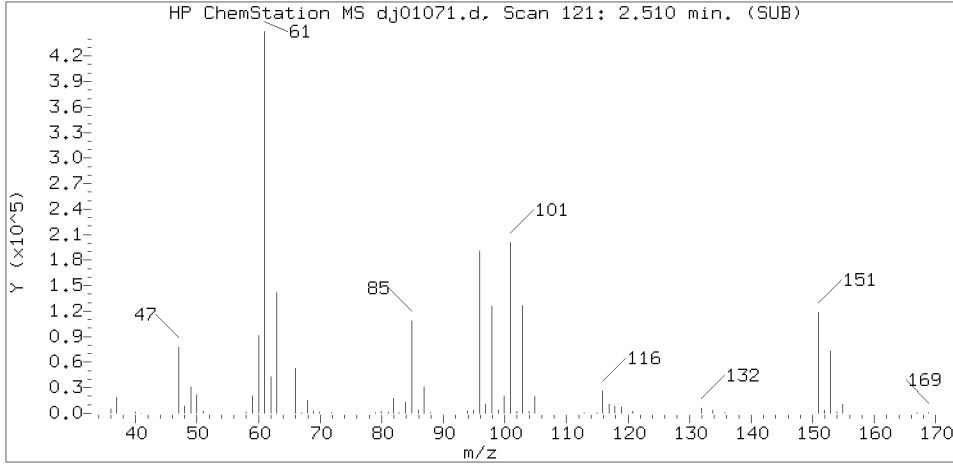
Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

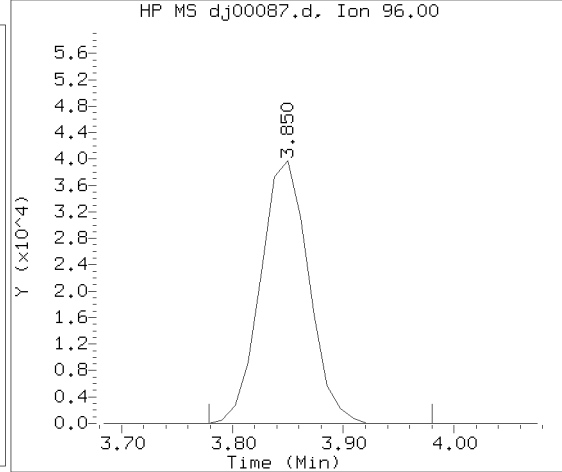
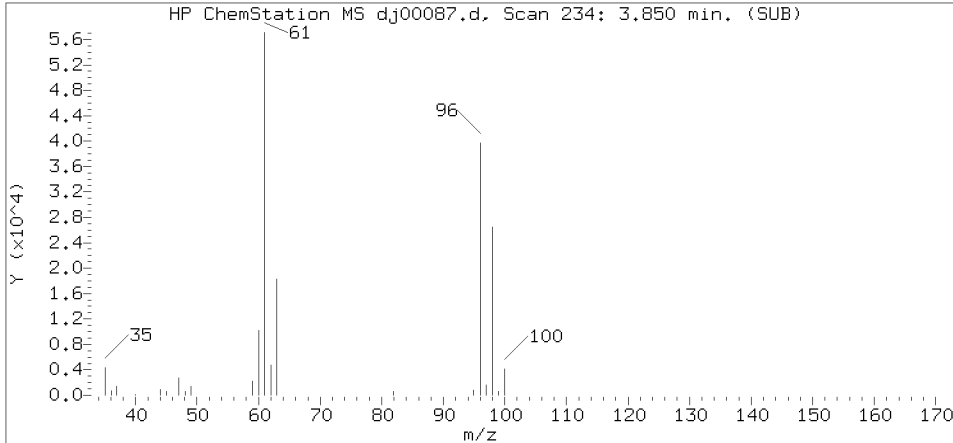
Lab Sample ID: 8065067

Compound Number : 7
 Compound Name : 1,3-Butadiene
 Scan Number : 115
 Retention Time (minutes): 2.439
 Relative Retention Time : 0.00108
 Quant Ion : 54.00
 Area (flag) : 36488
 Concentration (ppb(v)) : 1.0009

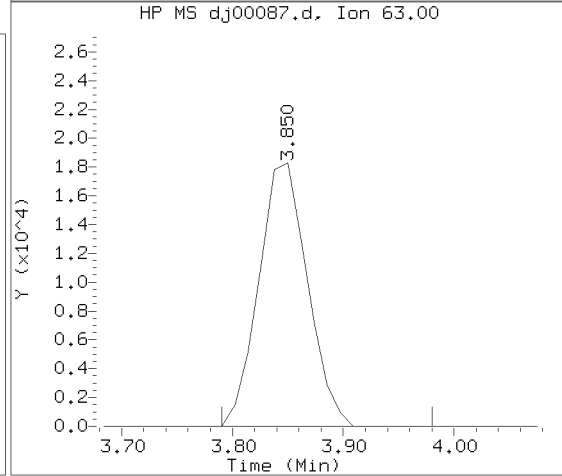
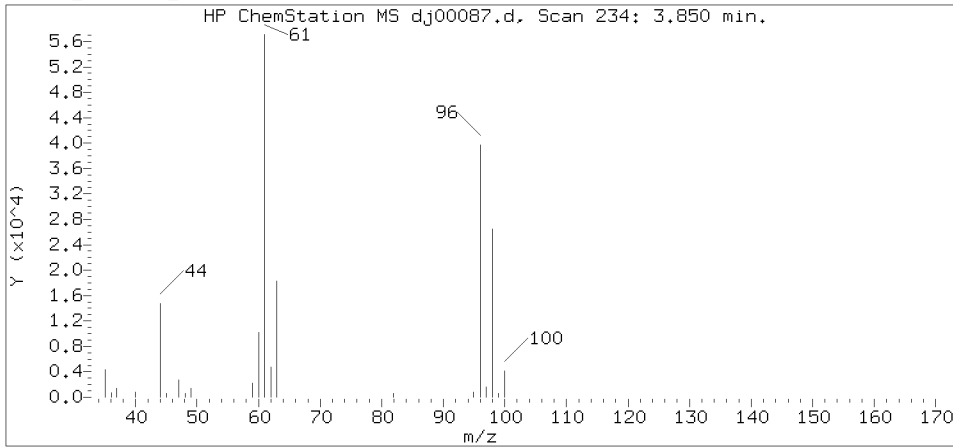
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

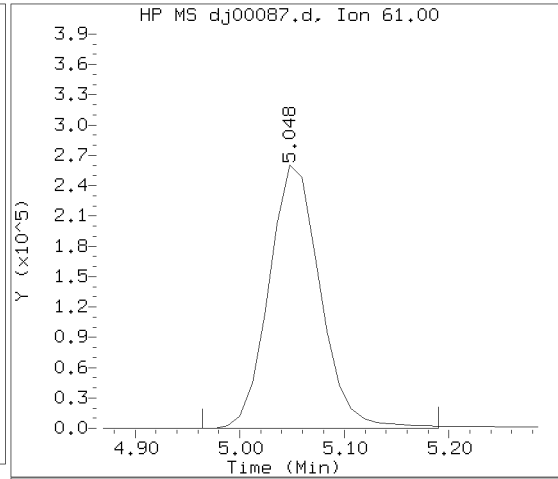
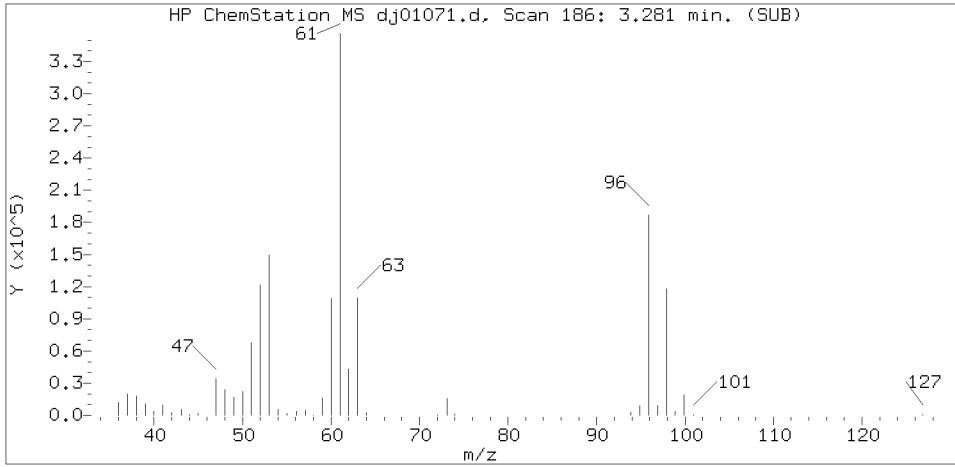
Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

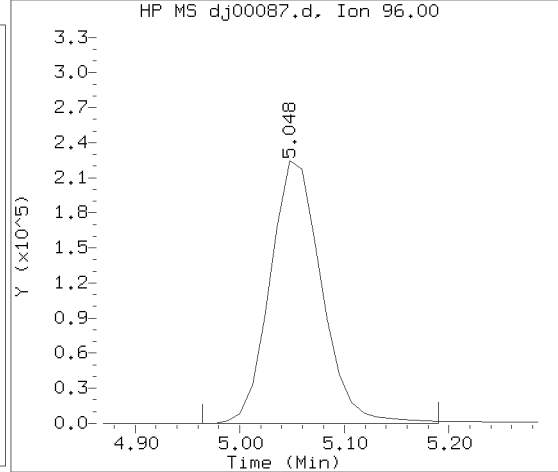
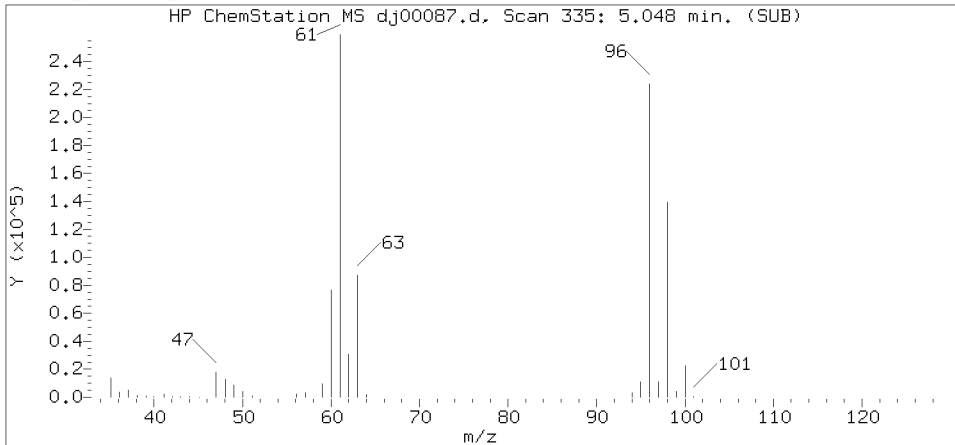
Lab Sample ID: 8065067

Compound Number : 17
 Compound Name : 1,1-Dichloroethene
 Scan Number : 234
 Retention Time (minutes): 3.850
 Relative Retention Time : -0.00086
 Quant Ion : 61.00
 Area (flag) : 170090
 Concentration (ppb(v)) : 1.7970

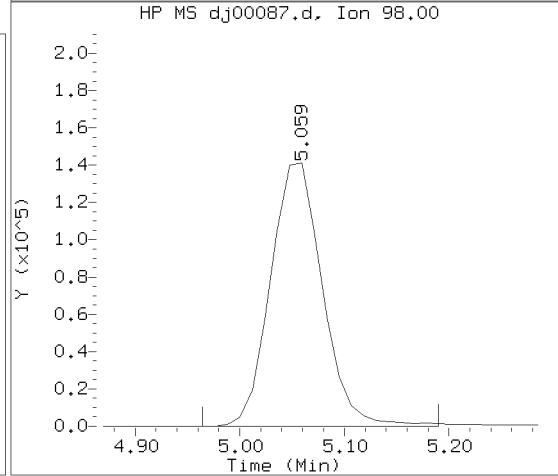
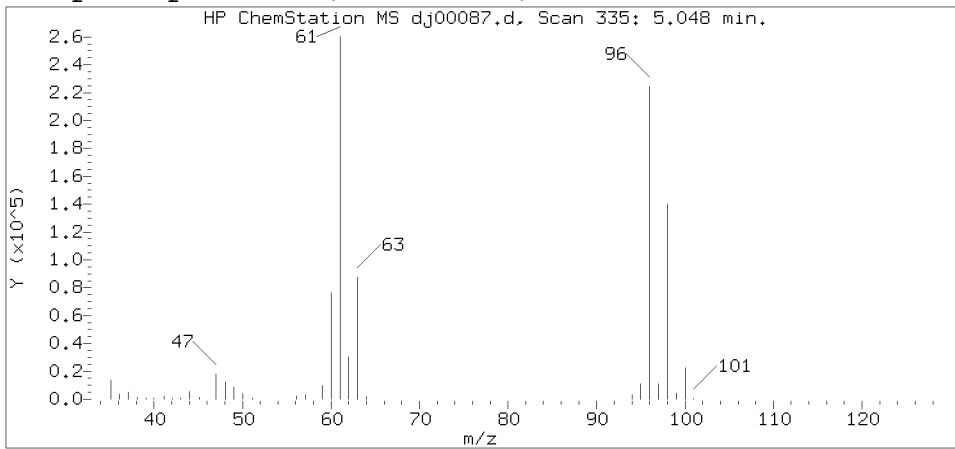
Reference Standard Spectrum for trans-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

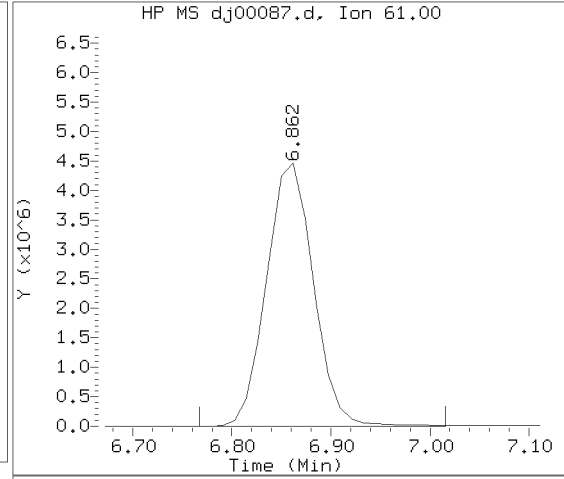
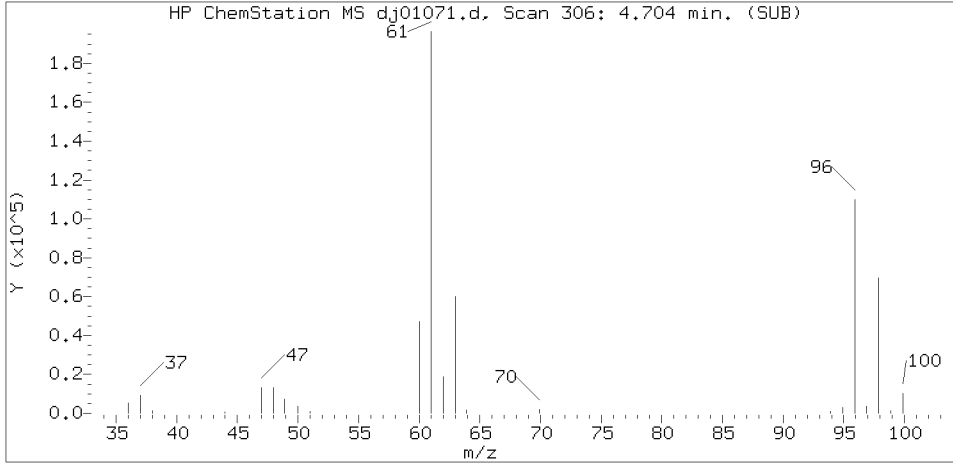
Lab Sample ID: 8065067

Compound Number : 28
Compound Name : trans-1,2-Dichloroethene
Scan Number : 335
Retention Time (minutes): 5.048
Relative Retention Time : 0.00050
Quant Ion : 61.00
Area (flag) : 887964
Concentration (ppb(v)) : 11.2106

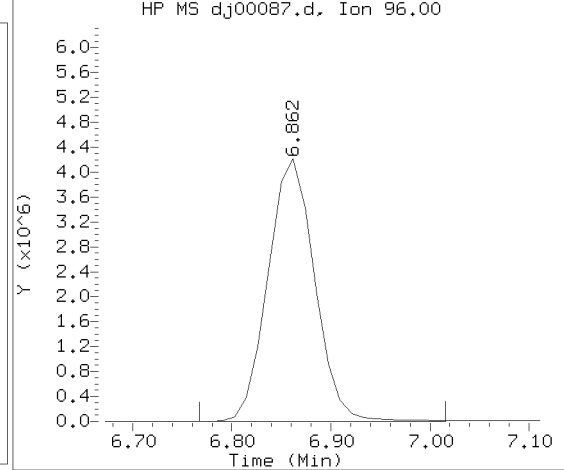
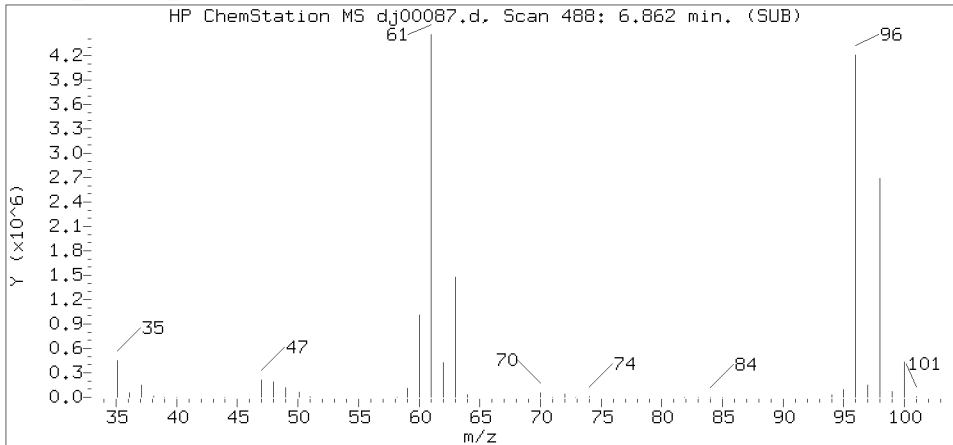
Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:11.

Target 3.5 esignature user SSX07 Page 59 of 641

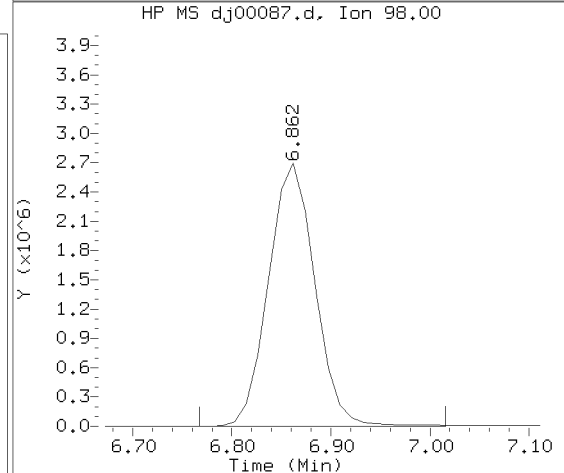
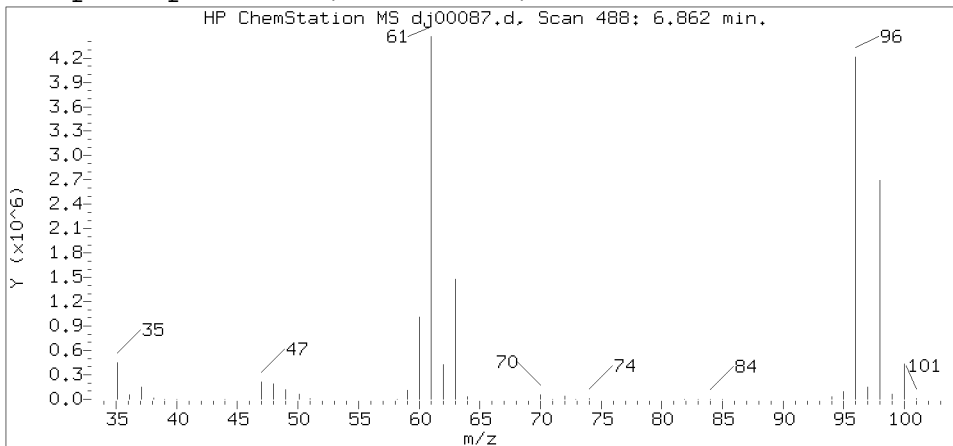
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

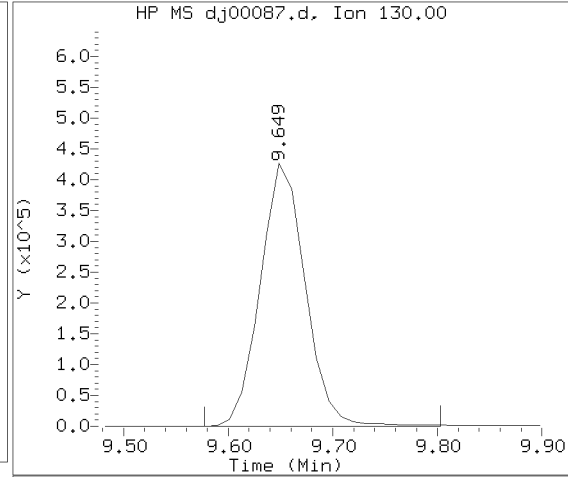
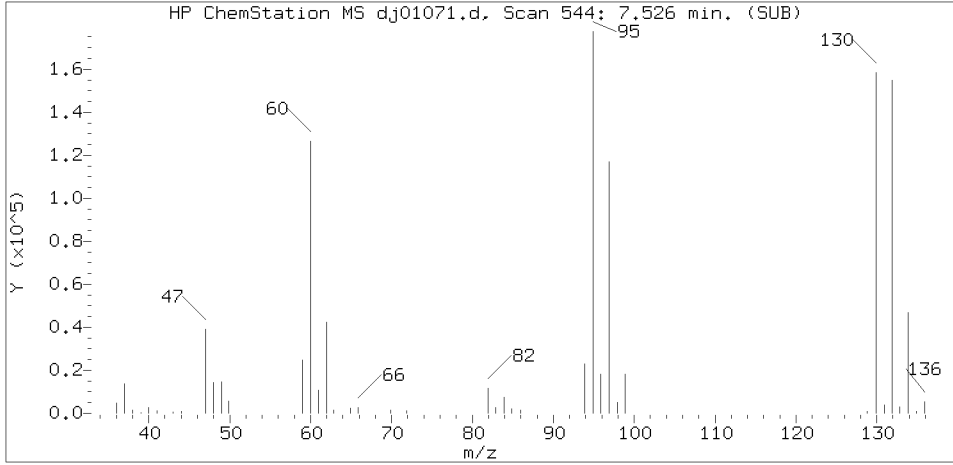
Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

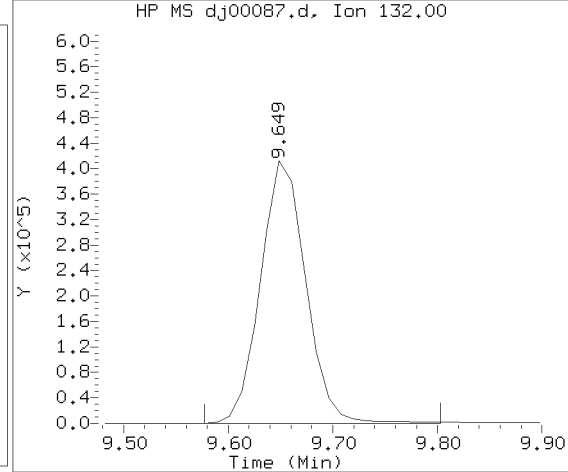
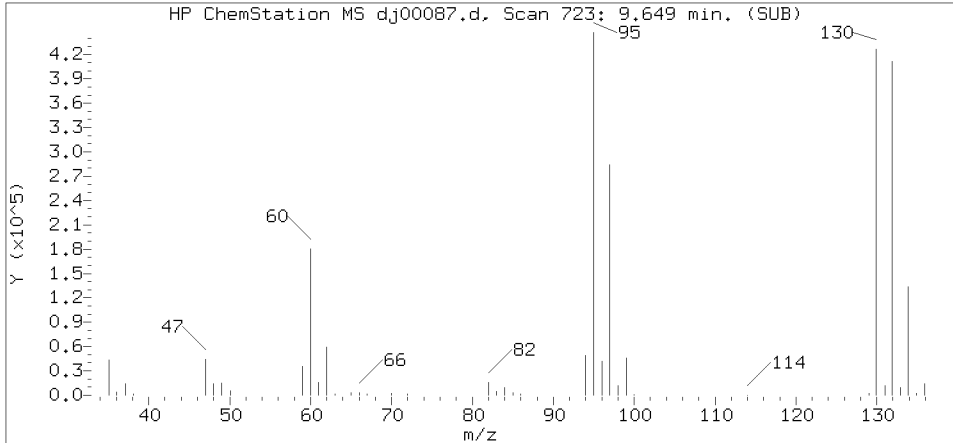
Lab Sample ID: 8065067

Compound Number : 35
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 488
 Retention Time (minutes): 6.862
 Relative Retention Time : 0.00009
 Quant Ion : 61.00
 Area (flag) : 14735666
 Concentration (ppb(v)) : 187.8710

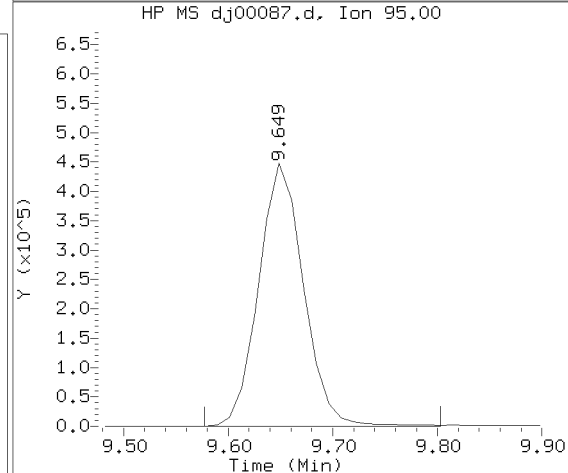
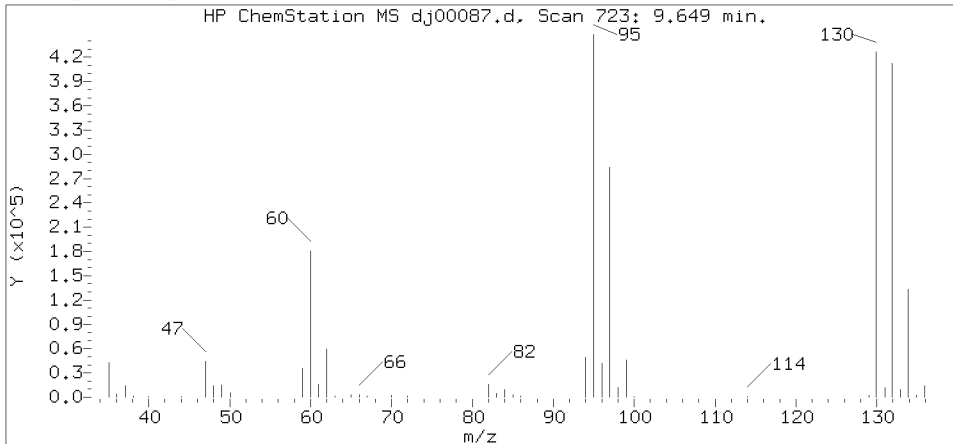
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct05.b/dj00087.d
 Injection date and time: 06-OCT-2015 02:01

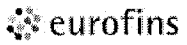
Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 723
 Retention Time (minutes): 9.649
 Relative Retention Time : -0.00006
 Quant Ion : 130.00
 Area (flag) : 1276396
 Concentration (ppb(v)) : 11.7953



Lancaster Laboratories
Environmental

FORM 01(TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media: CANISTER
Canister ID: 912
Pressure Received: 24.4 psia
Final Pressure: 12.2 psia
Nominal Volume: 250 cc
Injection Volume: 50 cc
Instrument ID: 10145

Lab Sample ID: 8065067
Lab File ID: dj00087.d
Date Collected: 09/16/2015
Date Received: 09/26/2015
Analyzed Date: 10/06/2015
Analyzed Time: 02:01
Dilution Factor: 1000

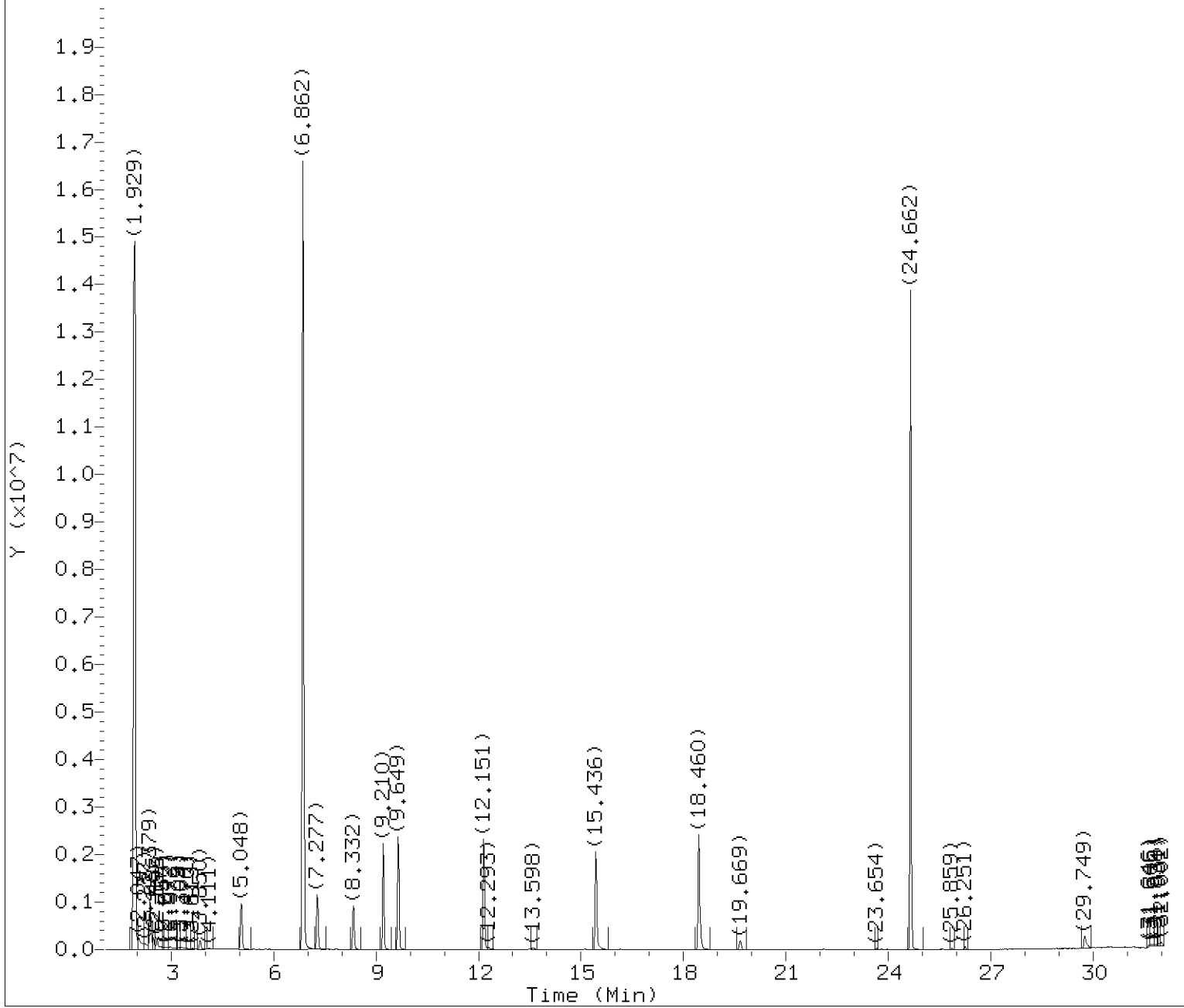
Number TICs Found: 1

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown Alkene	2.59	3000	J
TOTVOATIC	Total Tics		3000	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

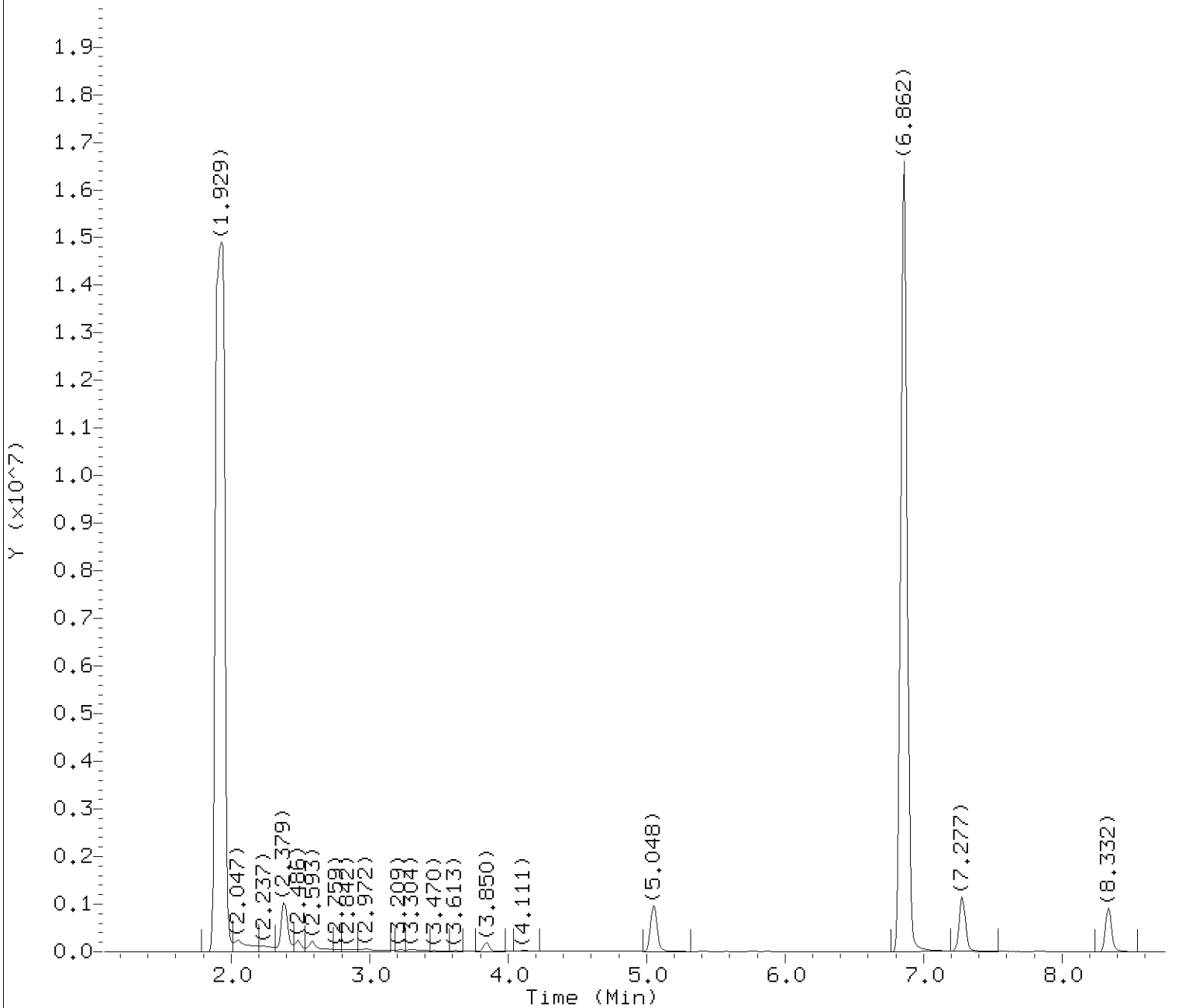
Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

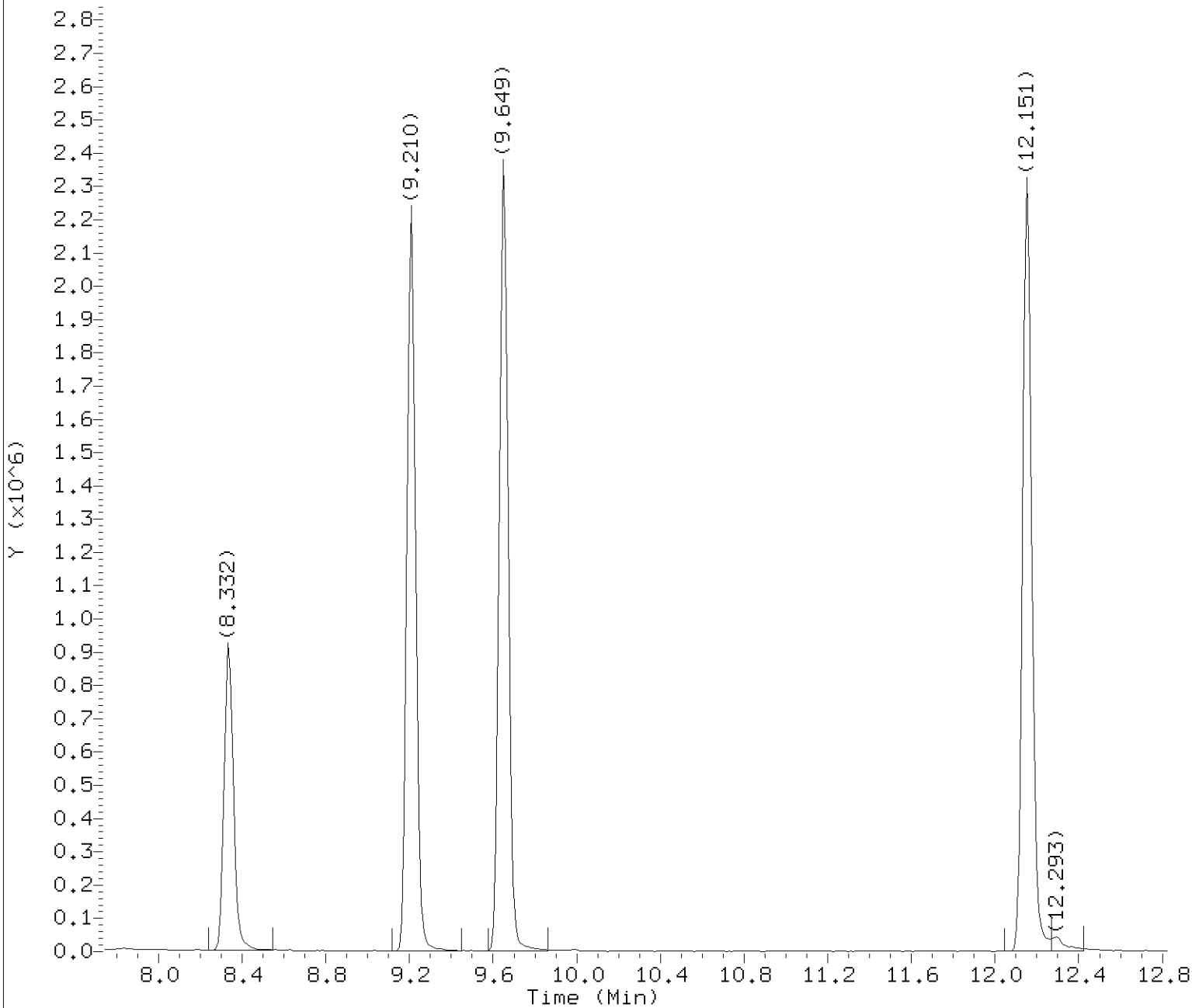
Sublist used: 292

Sample Name: SVMP5

Lab Sample ID: 8065067

Internal Standard referenced: Bromochloromethane at 7.277 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.243

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

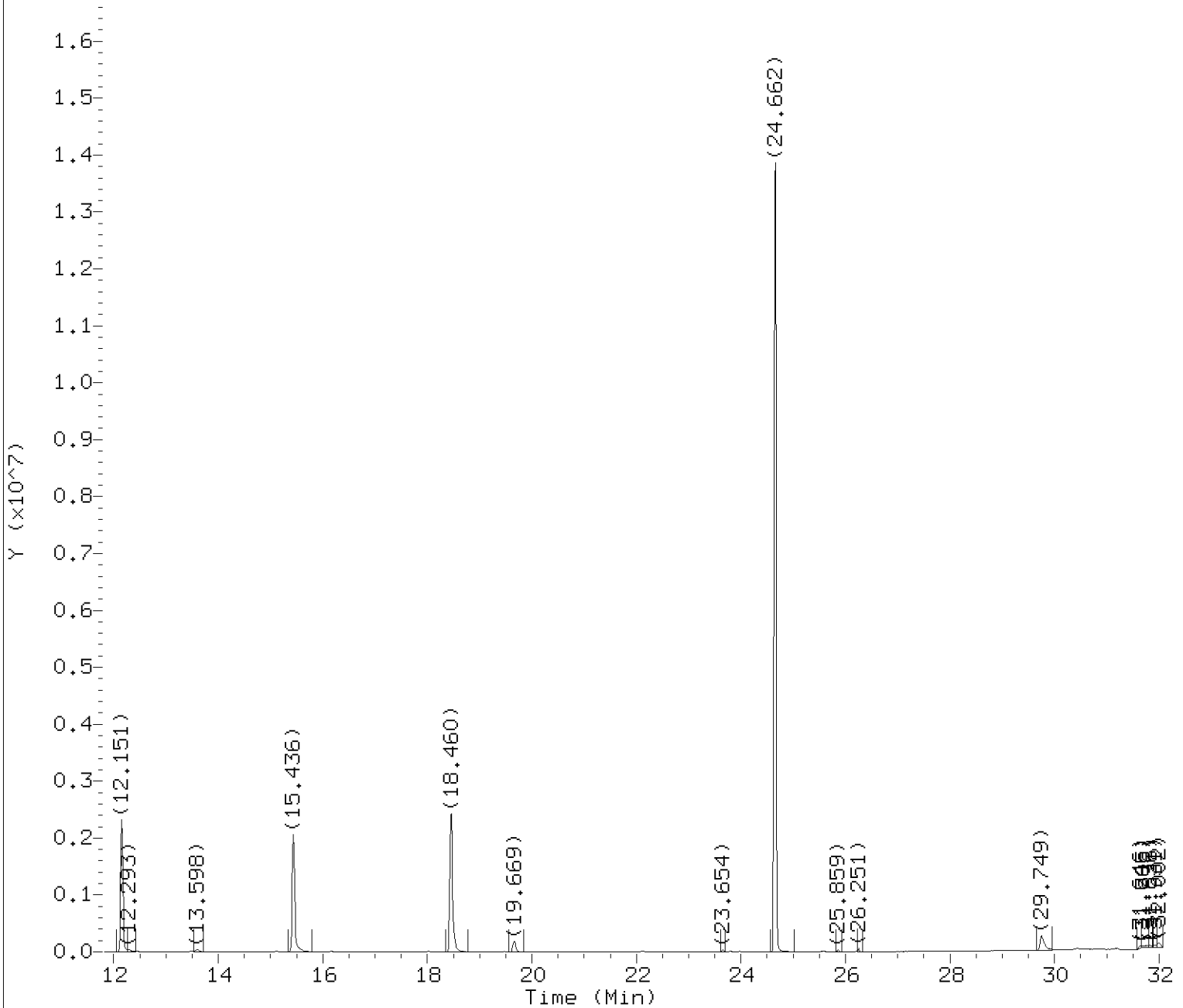
Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Internal Standard referenced: 1,4-Difluorobenzene at 9.210 minutes
Chromatogram Start Time (min.): 8.243
Chromatogram End Time (min.): 12.323

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00087.d
Injection date and time: 06-OCT-2015 02:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: 292

Date, time and analyst ID of latest file update: 16-Oct-2015 09:09 jbs01304

Sample Name: SVMP5

Lab Sample ID: 8065067

Internal Standard referenced: Chlorobenzene-d5 at 15.436 minutes
Chromatogram Start Time (min.): 12.323
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP10145.i/15oct05.b/dj00087.d
Lab Smp Id: 8065067 Client Smp ID: SVMP5
Inj Date : 06-OCT-2015 02:01
Operator : jeb07445 Inst ID: HP10145.i
Smp Info : 8065067;50;D1527830AA;SVMP5;0;0;SAMPLE;
Misc Info : dj00073;292.sub;250;12.1943;24.3886;912;
Comment :
Method : /chem/HP10145.i/15oct05.b/to-15.m
Meth Date : 16-Oct-2015 09:06 jbs01304 Quant Type: ISTD
Cal Date : 01-OCT-2015 17:08 Cal File: dj00008.d
Als bottle: 17
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50
Processing Host: d30cs01

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	100.00000	Dilution Factor
Xa	24.38860	canister pressure absolute after dilutio
Ya	12.19430	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	50.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 40 Bromochloromethane	7.277	3738802	10.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Unknown Alkene				CAS #:			
2.593	1115821	2.98443359	2984.433585	0		0	40

Date : 06-OCT-2015 02:01

Client ID: SVMPS

Instrument: HP10145.i

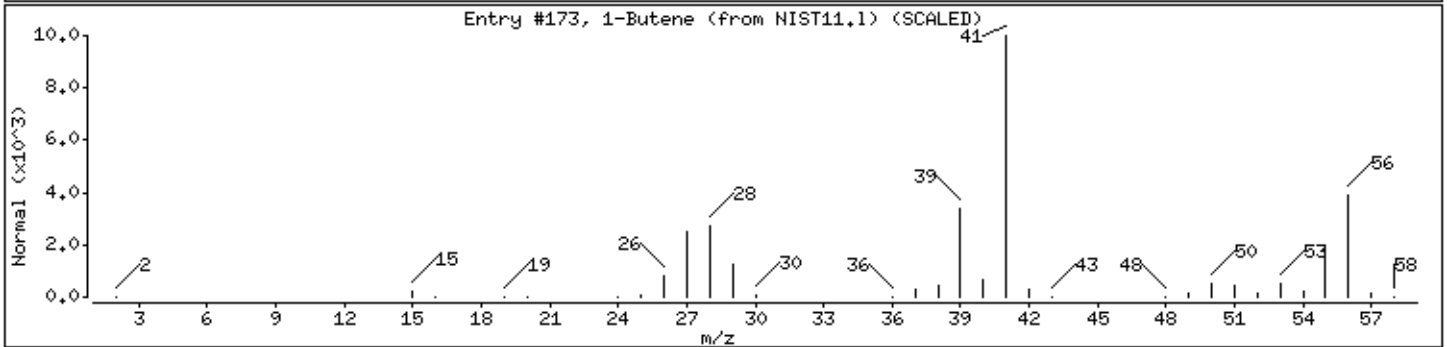
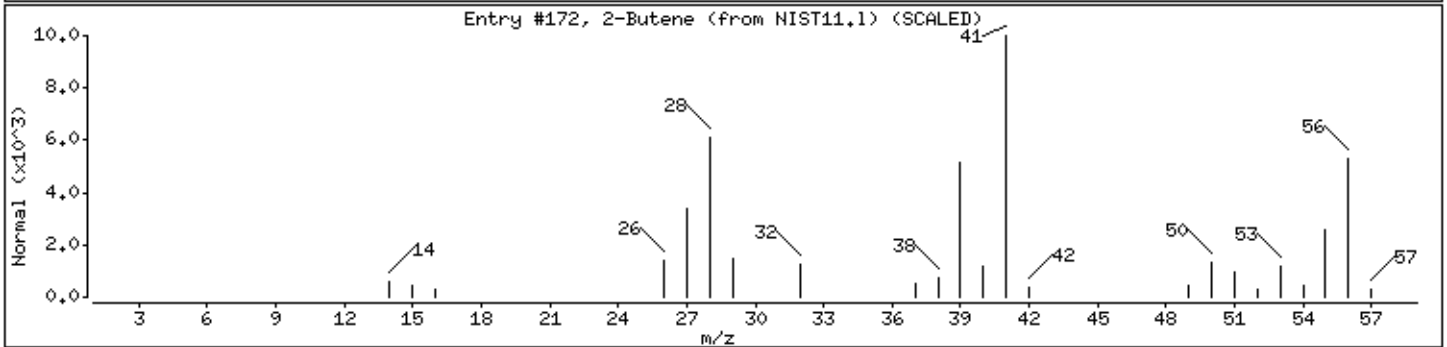
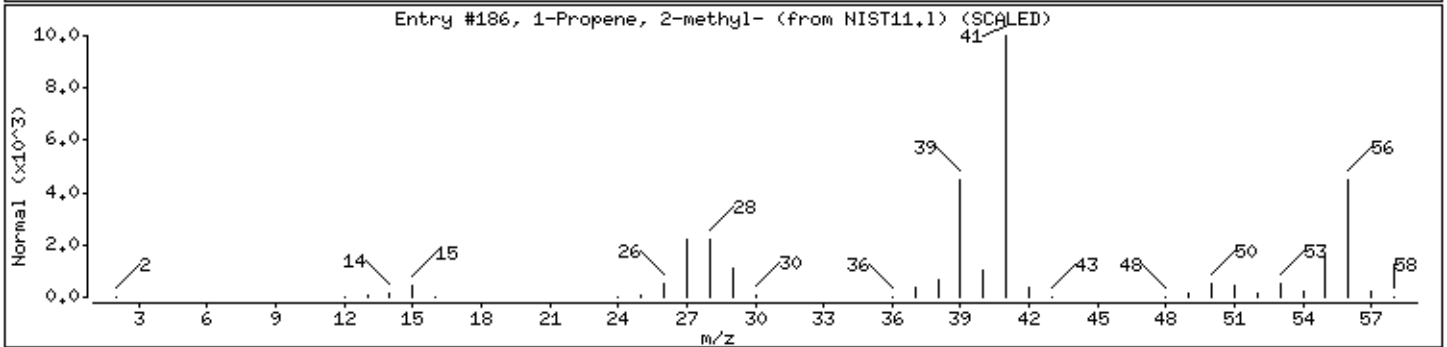
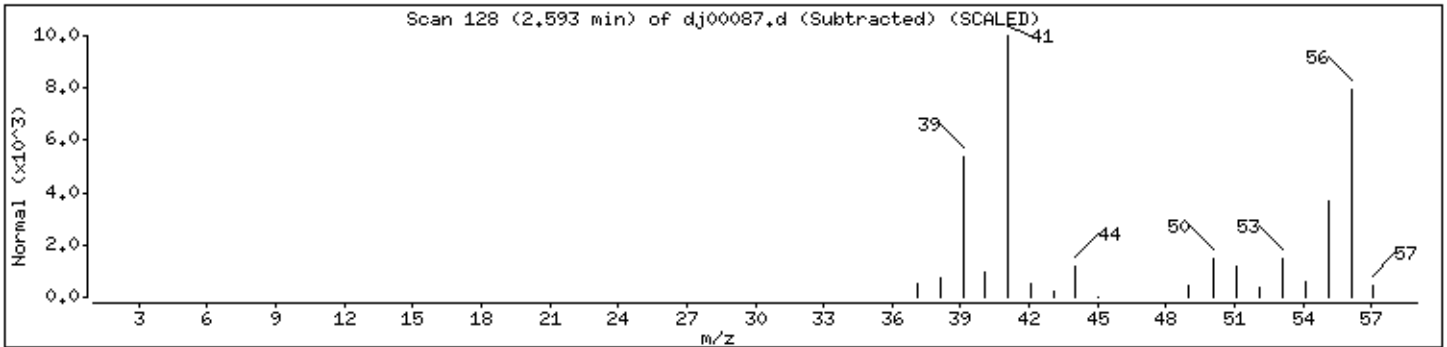
Sample Info: 8065067;50;D1527830AA;SVMPS;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkene						
1-Propene, 2-methyl-	115-11-7	NIST11.1	186	74	C4H8	56
2-Butene	107-01-7	NIST11.1	172	68	C4H8	56
1-Butene	106-98-9	NIST11.1	173	64	C4H8	56



Data file: /chem/HP10145.i/15oct06.b/dj00112.d Injection date and time: 06-OCT-2015 22:53
 Data file Sample Info. Line: 8065067DL;250;D1527830AB;SVMP5DL;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1527830AB
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Blank Data file reference: /chem/HP10145.i/15oct06.b/dj00107.d

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 06-OCT-2015 17:22
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct06.b/dj00105.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 10000
 Canister Pressure after dilution (Xa): 24.4 psia Canister Pressure before dilution (Ya): 12.2 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.277(0.012)	523	130	502122 (-26)	10.00		407789 - 951505
51) 1,4-Difluorobenzene	9.210(0.012)	686	114	1897030 (-26)	10.00		1540866 - 3595354
71) Chlorobenzene-d5	15.436(0.012)	1211	117	1742374 (-26)	10.00		1418078 - 3308848

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)	2.403(-0.000)	62	14357	0.405	8103.20		J	0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	4.004(-0.000)	43	109527	2.465	49299.86			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)	4.597(-0.002)	84	30423	0.939	18783.51		J	0.2	1
28) trans-1,2-Dichloroethene	(1)	5.059(-0.001)	61	43966	0.866	17316.00		J	0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.862(-0.001)	61	800745	15.924	318478.68			0.2	1
37) 2-Butanone	(1)			Not Detected					0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)	9.649(-0.000)	130	63116	0.918	18350.94		J	0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	12.293(0.000)	91	42506	0.246	4918.81		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)			Not Detected					0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

SVMP5DL

Lancaster Laboratories, Inc. Analysis Summary for GC/MS Volatiles in Air 8065067DL

Data file: /chem/HP10145.i/15oct06.b/dj00112.d Injection date and time: 06-OCT-2015 22:53
 Data file Sample Info. Line: 8065067DL;250;D1527830AB;SVMP5DL;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1527830AB
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Blank Data file reference: /chem/HP10145.i/15oct06.b/dj00107.d

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 06-OCT-2015 17:22
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct06.b/dj00105.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

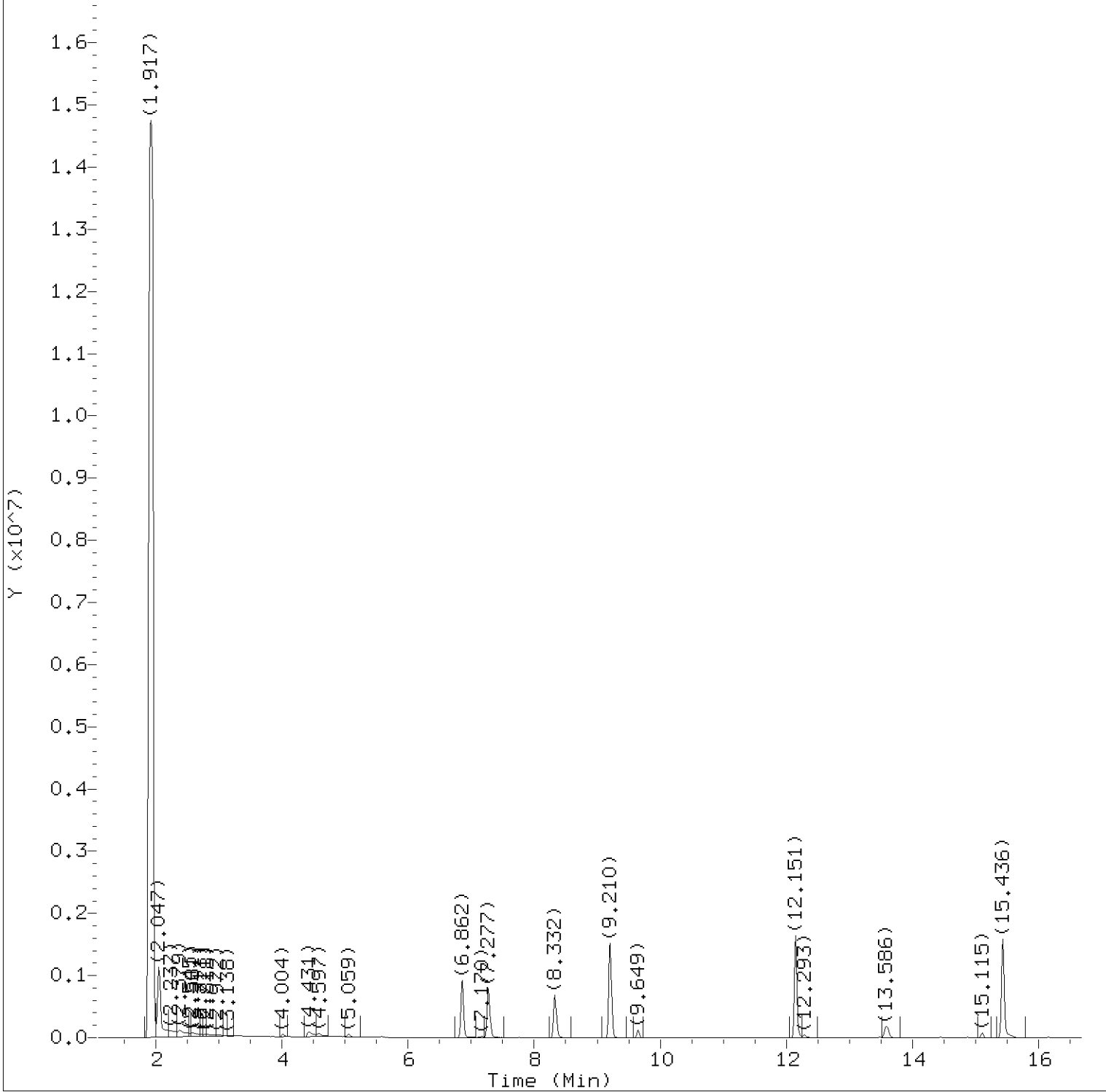
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 10000
 Canister Pressure after dilution (Xa): 24.4 psia Canister Pressure before dilution (Ya): 12.2 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)			Not Detected					0.2	1
75) m/p-Xylene	(3)			Not Detected					0.2	1
76) o-Xylene	(3)			Not Detected					0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 10/07/2015 at 14:48. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00112.d
Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: 292

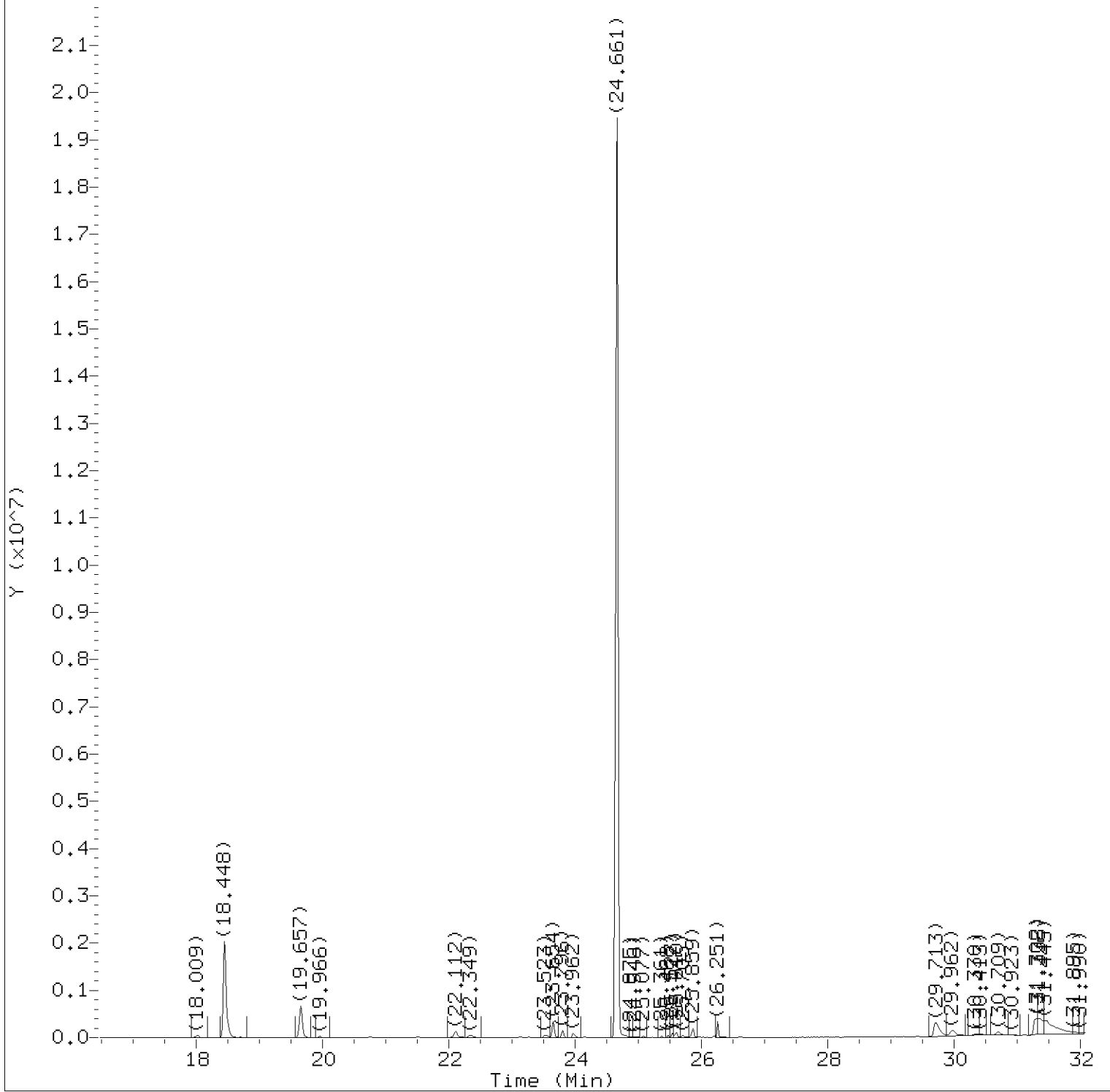
Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

Lab Sample ID: 8065067DL

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 14:48.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00112.d
Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: 292

Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

Lab Sample ID: 8065067DL

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 14:48.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22

Sublist used: 292

Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

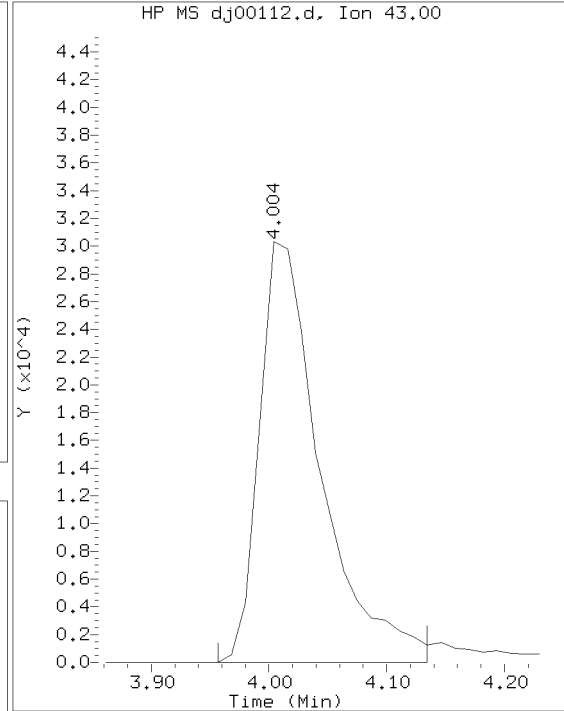
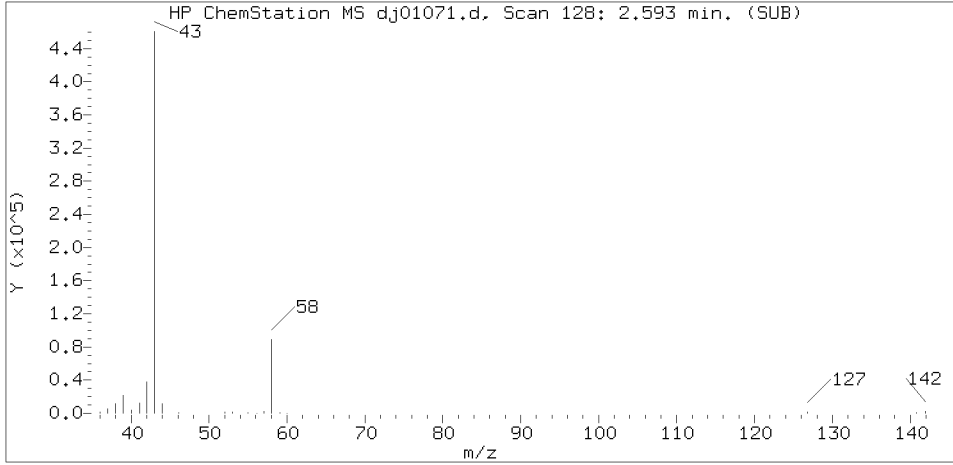
Sample Name: SVMP5DL

Lab Sample ID: 8065067DL

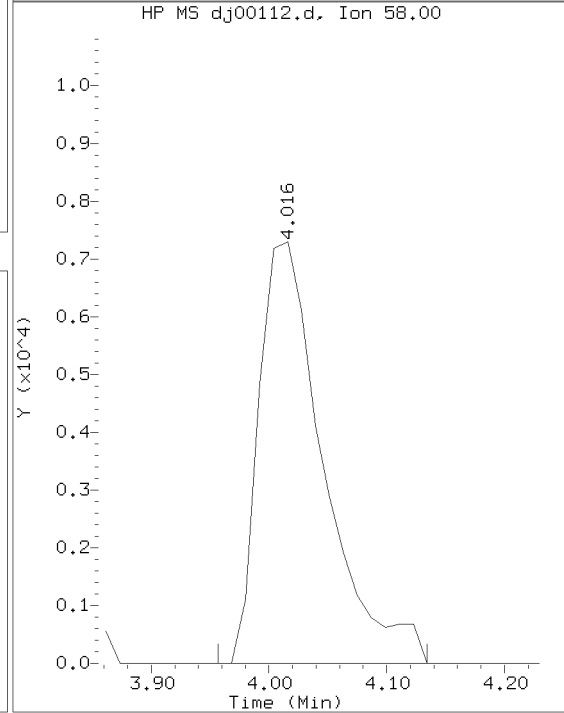
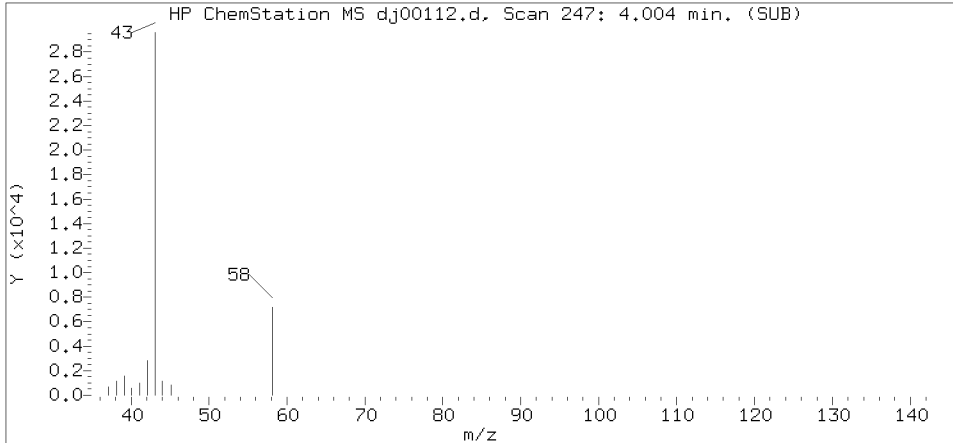
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
6) Vinyl Chloride	(1)	2.403	62	14357	0.405
19) Acetone	(1)	4.004	43	109527	2.465
25) Methylene Chloride	(1)	4.597	84	30423	0.939
28) trans-1,2-Dichloroethene	(1)	5.059	61	43966	0.866
35) cis-1,2-Dichloroethene	(1)	6.862	61	800745	15.924
40)*Bromochloromethane	(1)	7.277	130	502122	10.000
51)*1,4-Difluorobenzene	(2)	9.210	114	1897030	10.000
52) Trichloroethene	(2)	9.649	130	63116	0.918
61) Toluene	(3)	12.293	91	42506	0.246
71)*Chlorobenzene-d5	(3)	15.436	117	1742374	10.000

* = Compound is an internal standard.

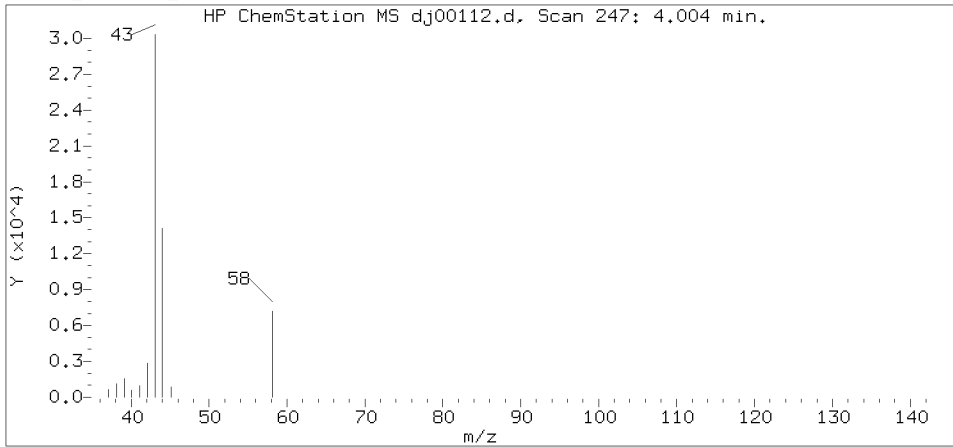
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

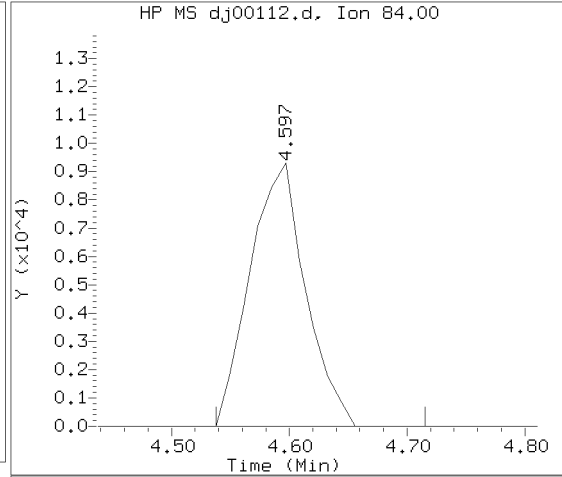
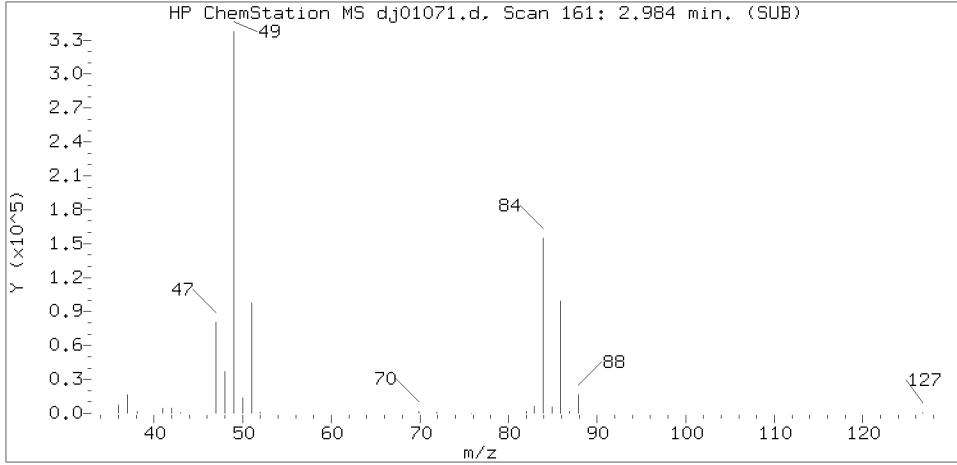
Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

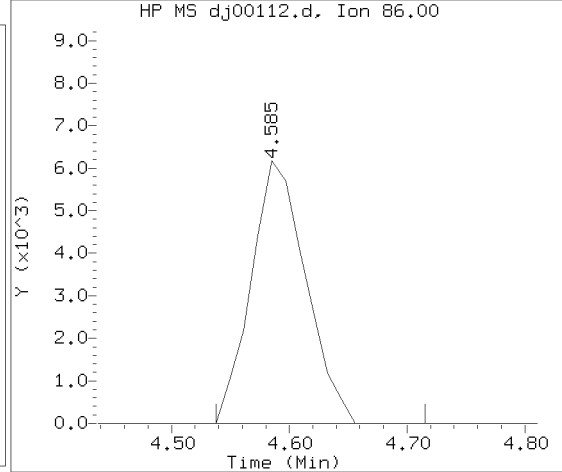
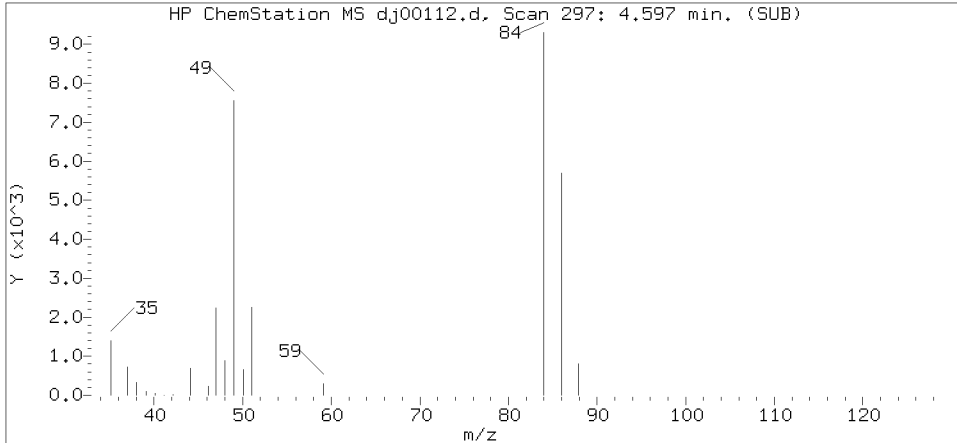
Lab Sample ID: 8065067DL

Compound Number : 19
 Compound Name : Acetone
 Scan Number : 247
 Retention Time (minutes): 4.004
 Relative Retention Time : -0.00089
 Quant Ion : 43.00
 Area (flag) : 109527
 Concentration (ppb(v)) : 2.4650

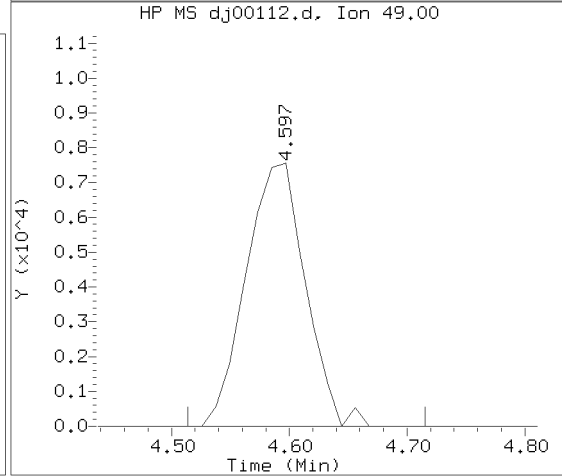
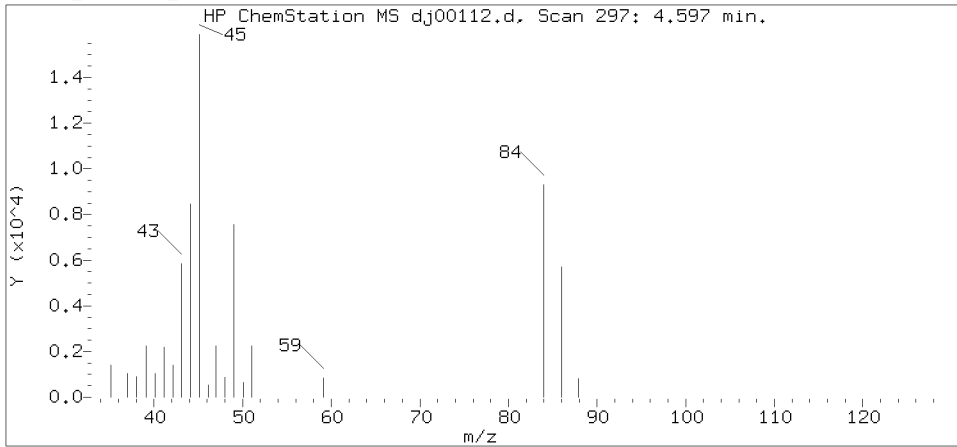
Reference Standard Spectrum for Methylene Chloride



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

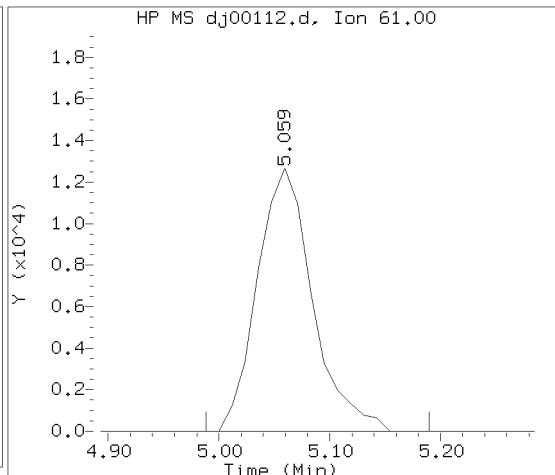
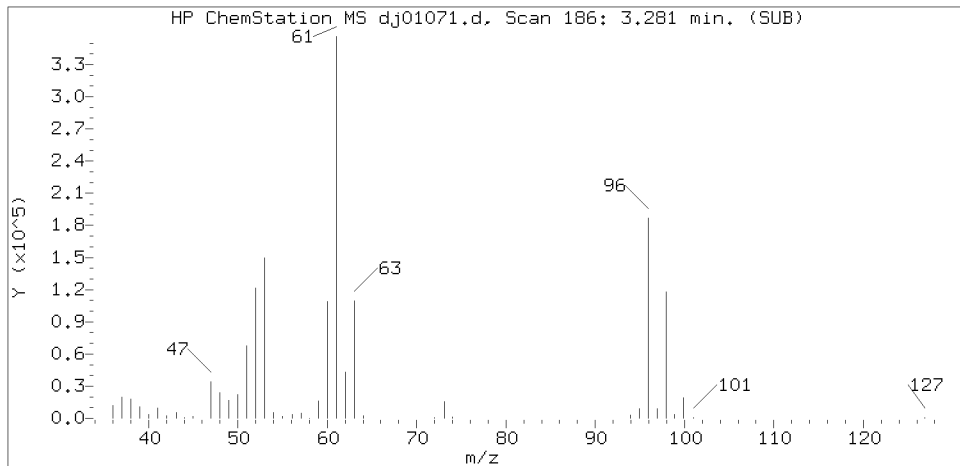
Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

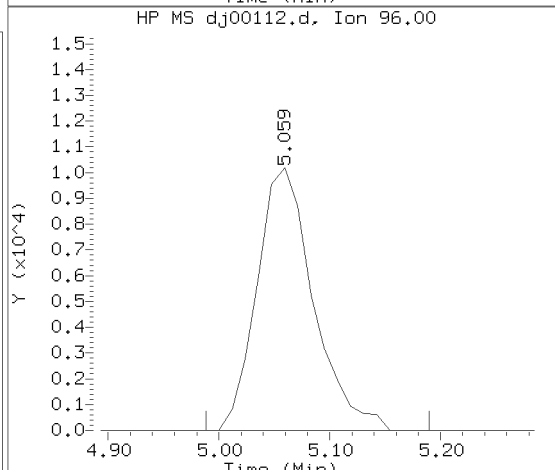
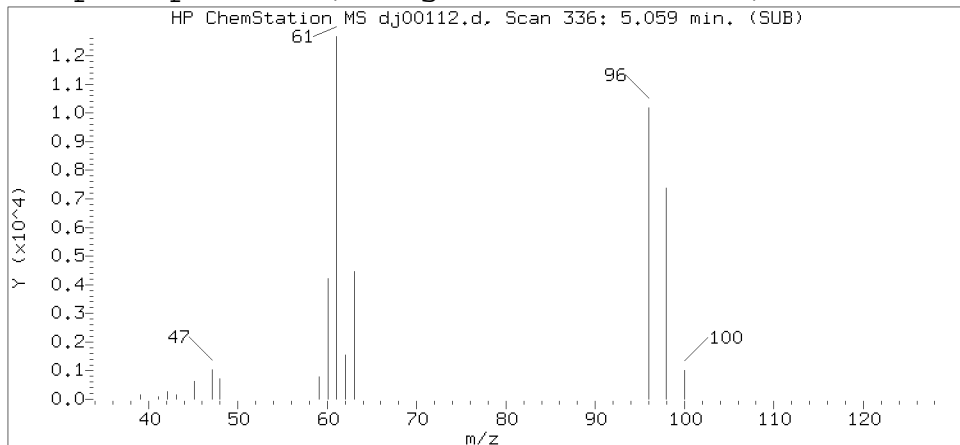
Lab Sample ID: 8065067DL

Compound Number : 25
 Compound Name : Methylene Chloride
 Scan Number : 297
 Retention Time (minutes): 4.597
 Relative Retention Time : -0.00265
 Quant Ion : 84.00
 Area (flag) : 30423
 Concentration (ppb(v)) : 0.9392

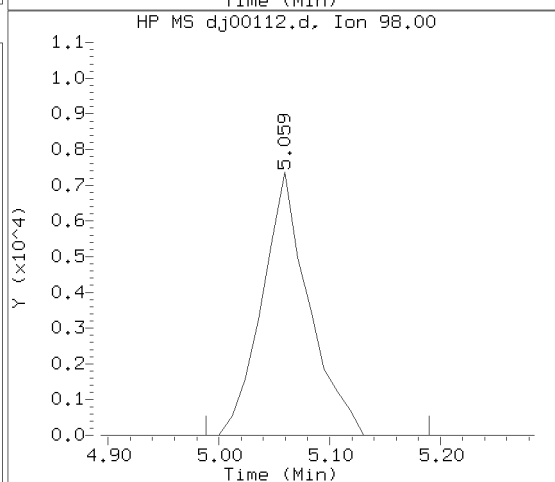
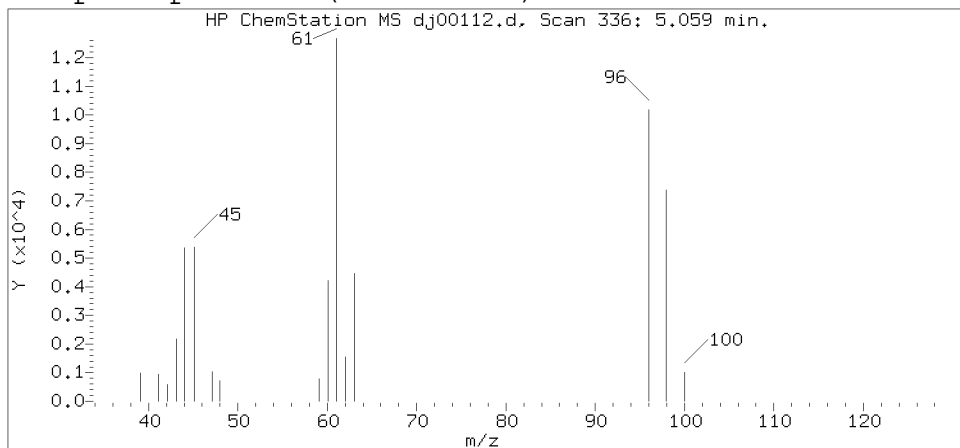
Reference Standard Spectrum for trans-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

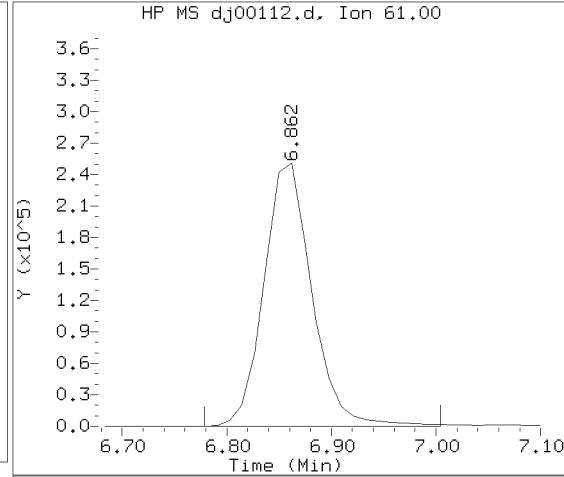
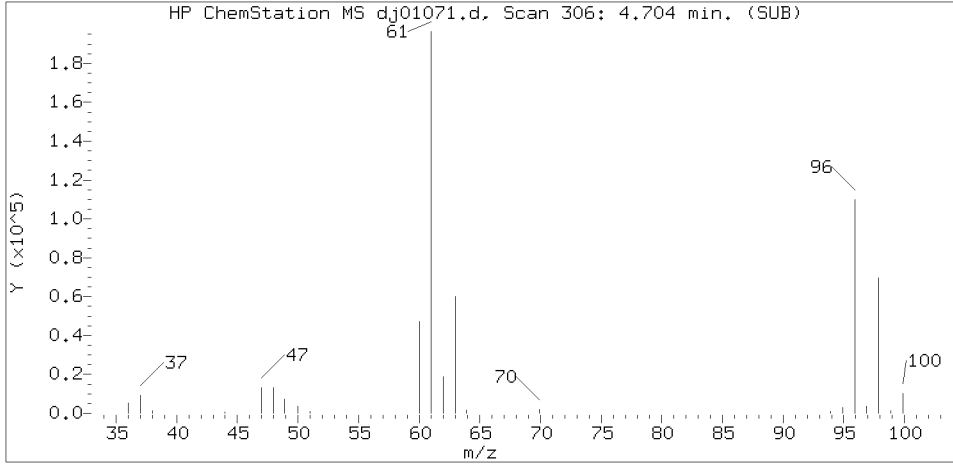
Lab Sample ID: 8065067DL

Compound Number : 28
 Compound Name : trans-1,2-Dichloroethene
 Scan Number : 336
 Retention Time (minutes): 5.059
 Relative Retention Time :-0.00113
 Quant Ion : 61.00
 Area (flag) : 43966
 Concentration (ppb(v)) : 0.8658

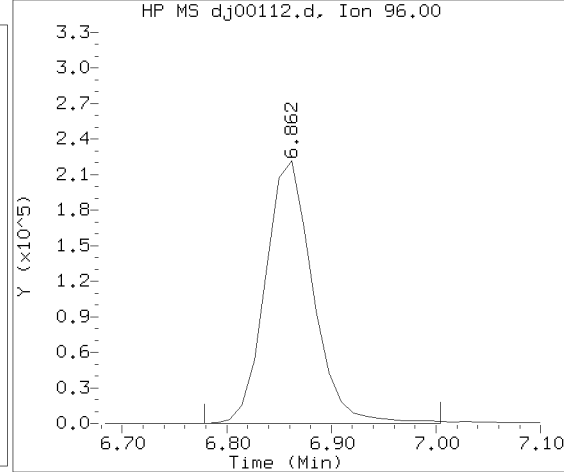
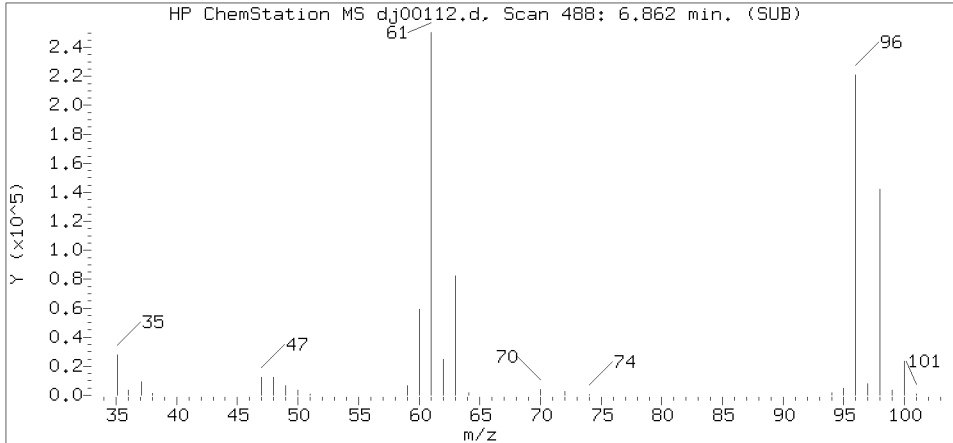
Digitally signed by Jacob E. Bailey on 10/07/2015 at 14:48.

Target 3.5 esignature user ID: jeb07445
 SSX07 Page 77 of 641

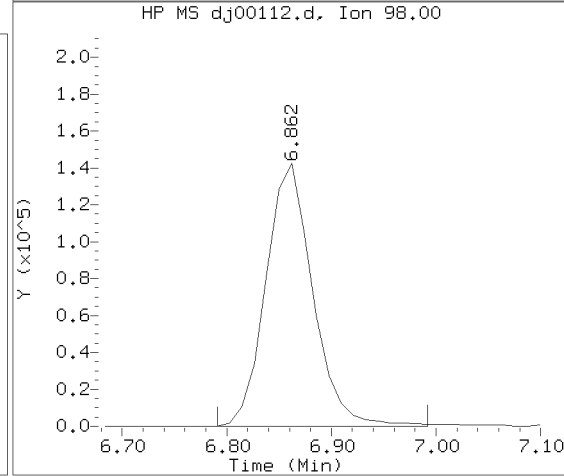
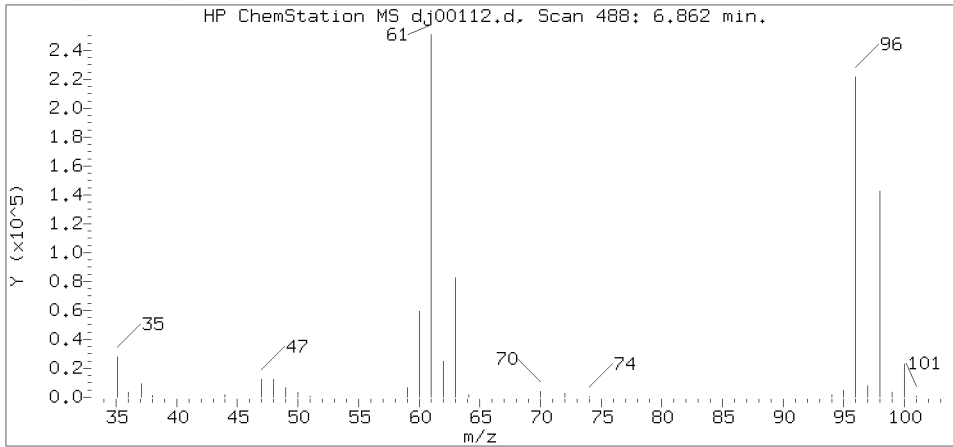
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

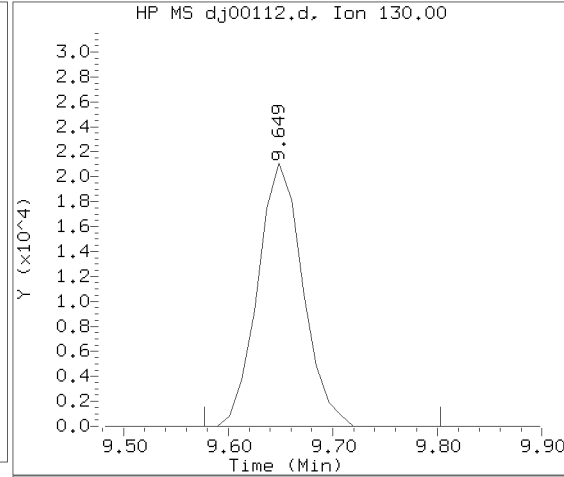
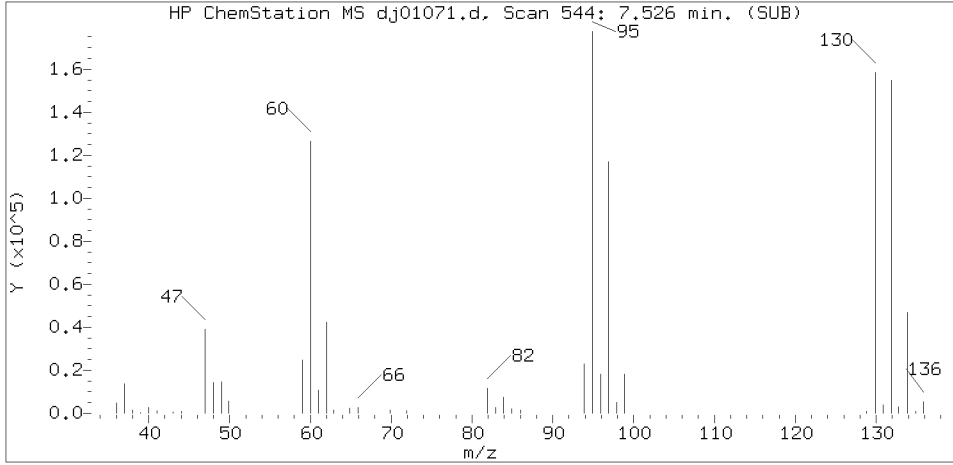
Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

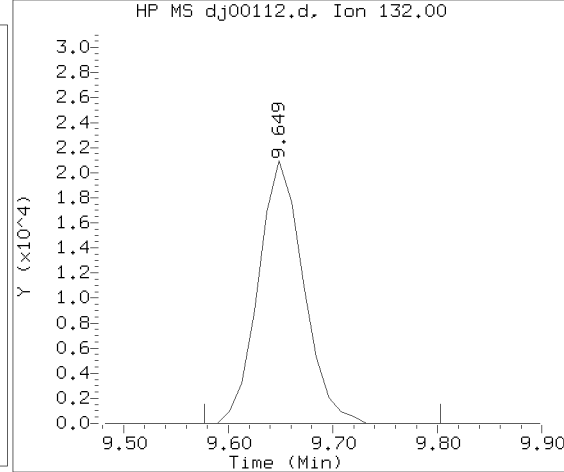
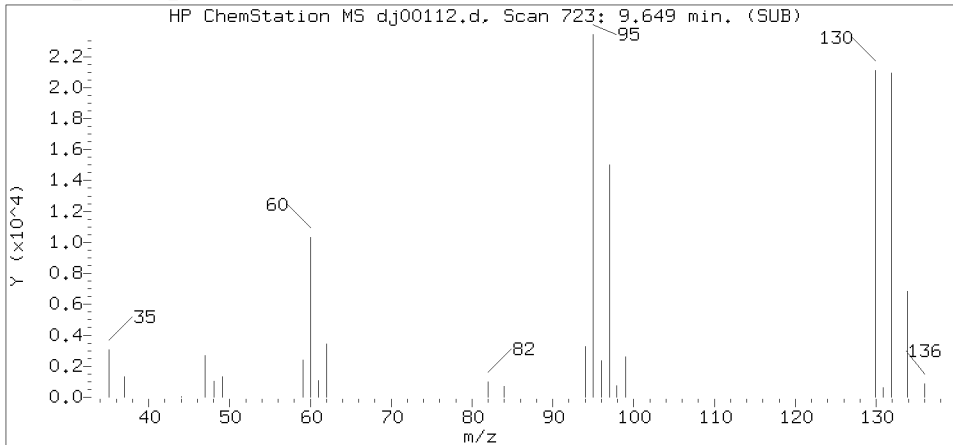
Lab Sample ID: 8065067DL

Compound Number : 35
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 488
 Retention Time (minutes): 6.862
 Relative Retention Time : -0.00153
 Quant Ion : 61.00
 Area (flag) : 800745
 Concentration (ppb(v)) : 15.9239

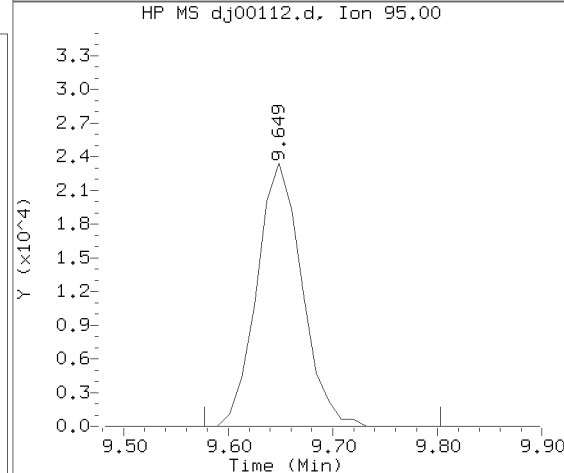
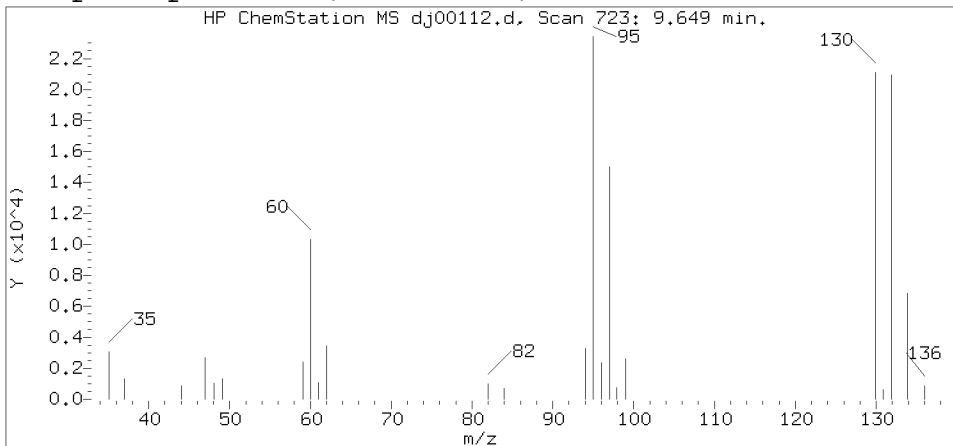
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

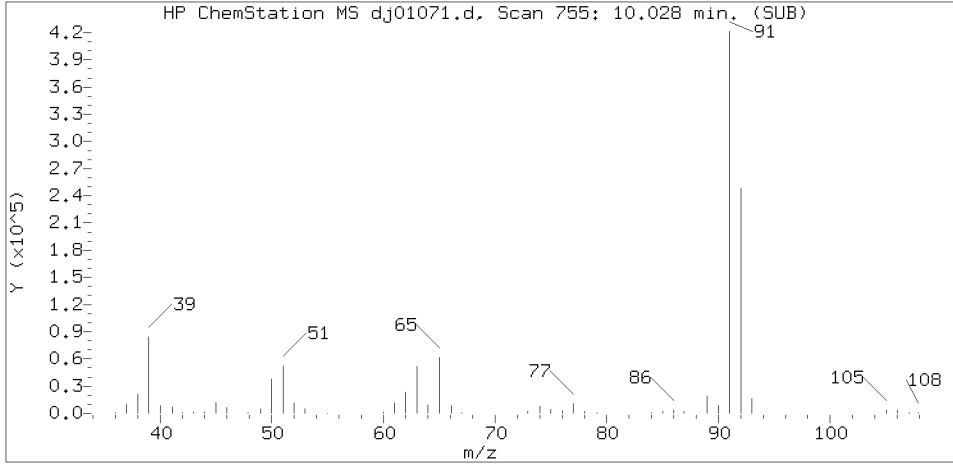
Sublist used: 292

Sample Name: SVMP5DL

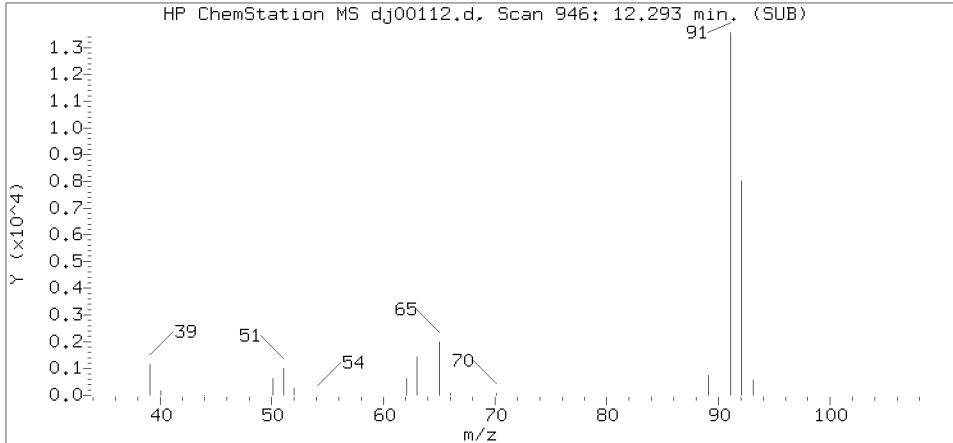
Lab Sample ID: 8065067DL

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 723
 Retention Time (minutes): 9.649
 Relative Retention Time : -0.00006
 Quant Ion : 130.00
 Area (flag) : 63116
 Concentration (ppb(v)) : 0.9175

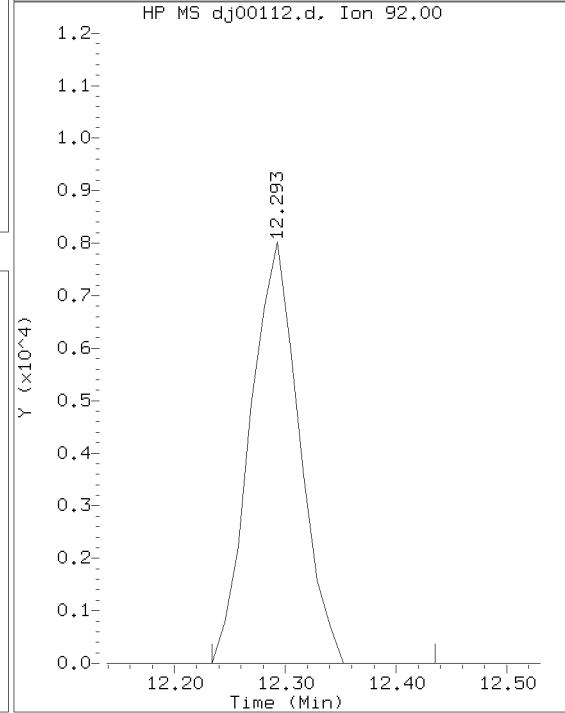
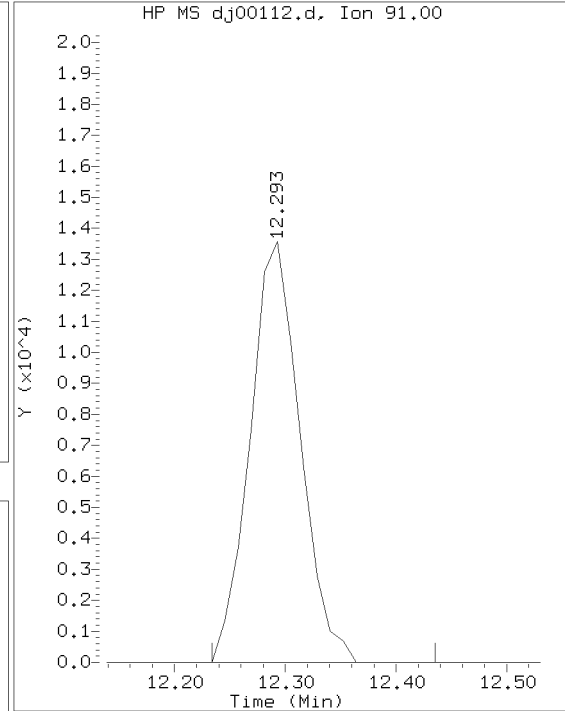
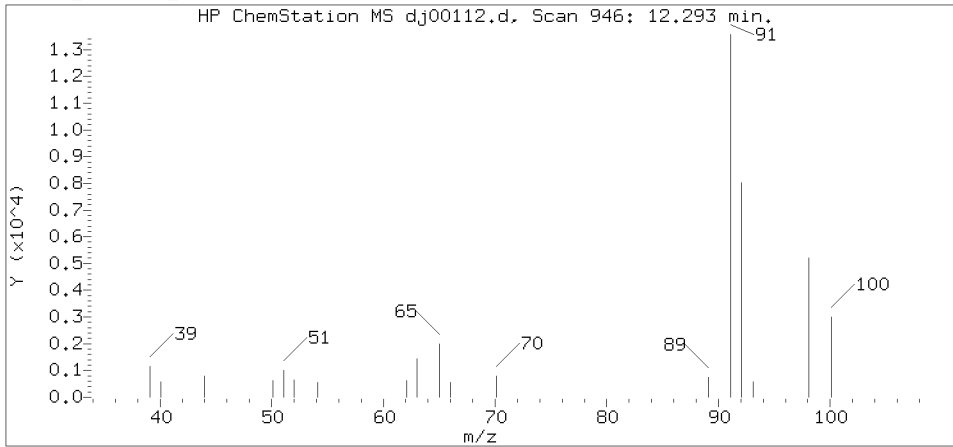
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct06.b/dj00112.d
 Injection date and time: 06-OCT-2015 22:53

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 07-Oct-2015 14:47 jeb07445

Sample Name: SVMP5DL

Lab Sample ID: 8065067DL

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 946
 Retention Time (minutes): 12.293
 Relative Retention Time : 0.00016
 Quant Ion : 91.00
 Area (flag) : 42506
 Concentration (ppb(v)) : 0.2459

SVMP3

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8065068

Data file: /chem/HP10145.i/15oct07.b/dj00144.d Injection date and time: 08-OCT-2015 01:31
 Data file Sample Info. Line: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1528030AA
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct07.b/dj00138.d

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct07.b/dj00136.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 21.7 psia Canister Pressure before dilution (Ya): 5.4 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.289(-0.024)	524	130	692997 (3)	10.00		402252 - 938586
51) 1,4-Difluorobenzene	9.210(-0.012)	686	114	2555160 (4)	10.00		1474106 - 3439580
71) Chlorobenzene-d5	15.435(-0.012)	1211	117	2470511 (7)	10.00		1383036 - 3227082

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)	3.280(0.001)	43	1058504	16.472	32.94			0.2	1
17) 1,1-Dichloroethene	(1)	3.826(0.001)	61	63980	0.764	1.53		J	0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	4.039(-0.007)	43	624481M	10.183	20.37			0.5	2
21) Carbon Disulfide	(1)	4.099(0.001)	76	362441	2.358	4.72			0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)	5.071(-0.002)	61	171555	2.448	4.90			0.2	1
29) Methyl t-Butyl Ether	(1)	5.178(-0.007)	73	567738	3.409	6.82			0.2	1
30) Hexane	(1)	5.605(-0.002)	57	66730	0.896	1.79		J	0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.874(-0.000)	61	4547435	65.524	131.05			0.2	1
37) 2-Butanone	(1)	7.051(-0.008)	72	51156M	2.000	4.00			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)	8.427(-0.001)	78	1720098	9.990	19.98			0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)	8.629(-0.000)	57	140788	0.617	1.23		J	0.2	1
50) Heptane	(2)	9.032(-0.001)	43	21313	0.311	0.62		J	0.2	1
52) Trichloroethene	(2)	9.648(0.000)	130	1975477	21.321	42.64			0.2	1
54) 1,2-Dichloropropane	(2)	10.064(0.001)	63	44685	0.885	1.77		J	0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	12.293(-0.000)	91	3641145	14.858	29.72			0.2	1
62) Octane	(3)	12.708(-0.000)	43	146787	1.501	3.00			0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	13.479(0.000)	166	100758	0.583	1.17		J	0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

SVMP3

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8065068

Data file: /chem/HP10145.i/15oct07.b/dj00144.d Injection date and time: 08-OCT-2015 01:31
 Data file Sample Info. Line: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE; Instrument ID: HP10145.i Batch: D1528030AA
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct07.b/dj00138.d

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
 Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct07.b/dj00136.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 21.7 psia Canister Pressure before dilution (Ya): 5.4 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

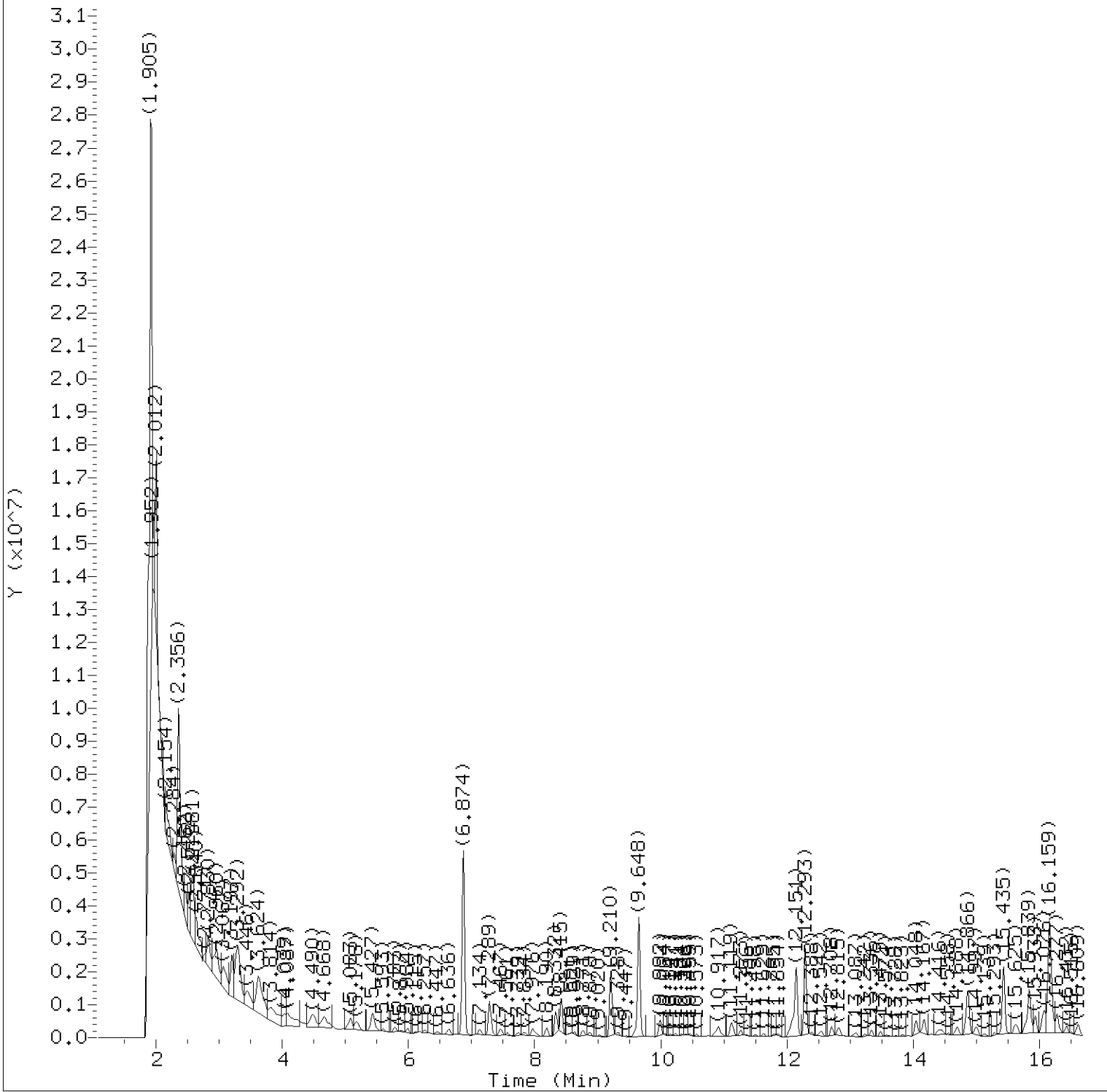
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)	14.285(-0.000)	107	31942	0.239	0.48		J	0.2	1
72) Chlorobenzene	(3)	15.495(0.000)	112	42795	0.209	0.42		J	0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.850(0.000)	91	1932695	5.950	11.90			0.2	1
75) m/p-Xylene	(3)	16.159(0.000)	91	3856347	13.411	26.82			0.2	1
76) o-Xylene	(3)	17.131(0.000)	91	2507891	9.207	18.41			0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)	17.558(0.000)	173	41340	0.231	0.46		J	0.2	1
80) Cumene	(3)	18.127(0.000)	105	196437	0.495	0.99		J	0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)	19.005(0.000)	110	17205	0.284	0.57		J	0.2	1
86) 4-Ethyltoluene	(3)	19.538(0.000)	105	394719M	1.012	2.02			0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.740(-0.000)	105	804531	2.276	4.55			0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.701(0.000)	105	593745	1.761	3.52			0.2	1
92) 1,3-Dichlorobenzene	(3)	21.365(0.000)	146	90370	0.448	0.90		J	0.2	1
93) 1,4-Dichlorobenzene	(3)	21.661(-0.000)	146	103844	0.527	1.05		J	0.2	1
96) 1,2-Dichlorobenzene	(3)	22.823(0.000)	146	94437	0.491	0.98		J	0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

Total number of targets = 62

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:55. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:04. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: 292

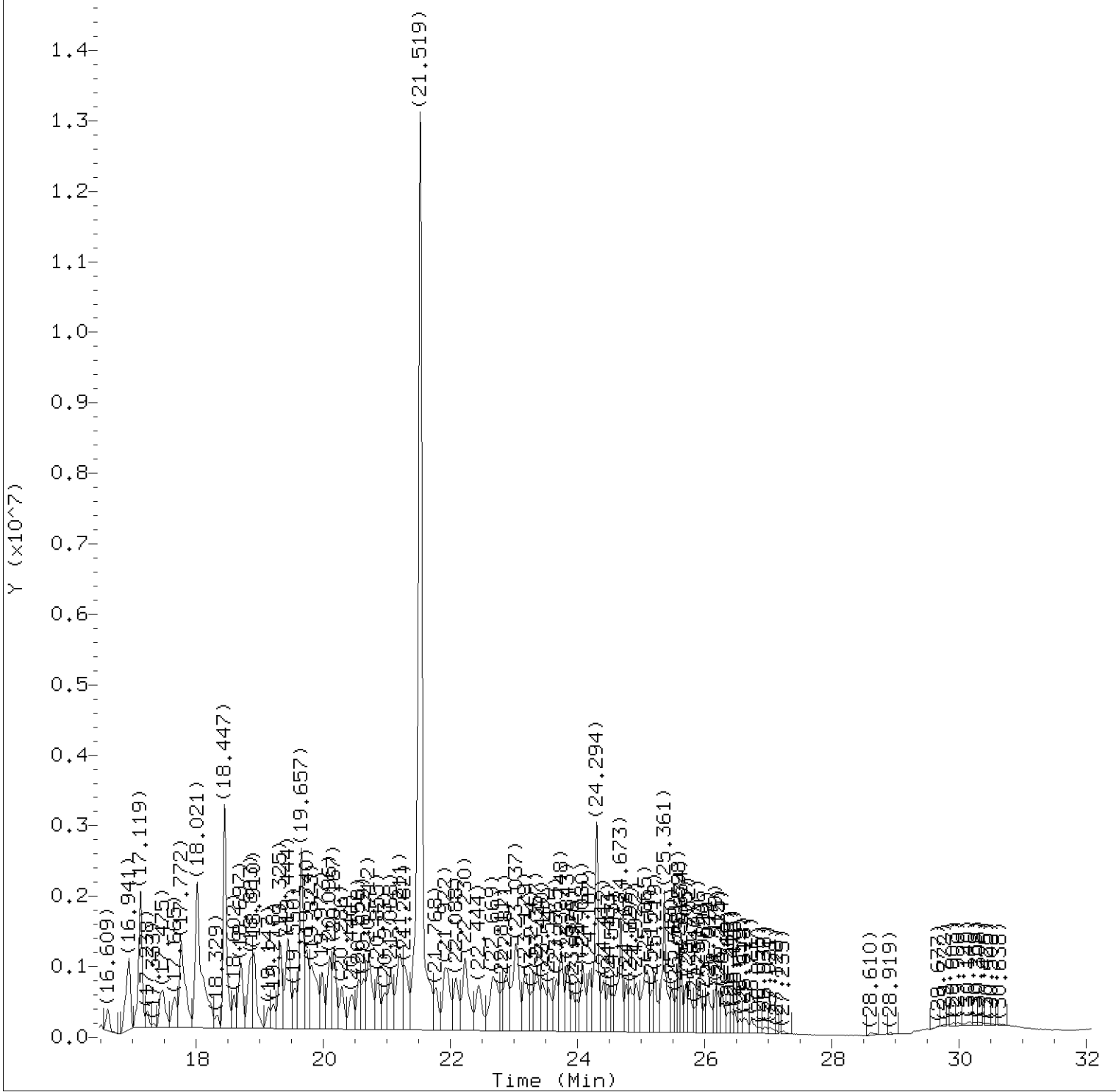
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

Lab Sample ID: 8065068

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 08:55.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: 292

Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

Lab Sample ID: 8065068

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 08:55.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sublist used: 292

Sample Name: SVMP3

Lab Sample ID: 8065068

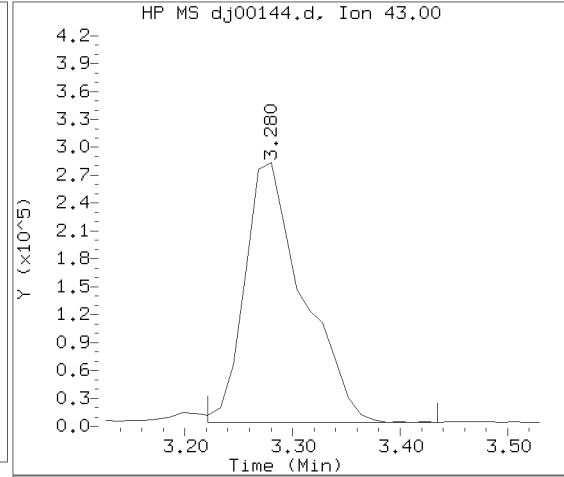
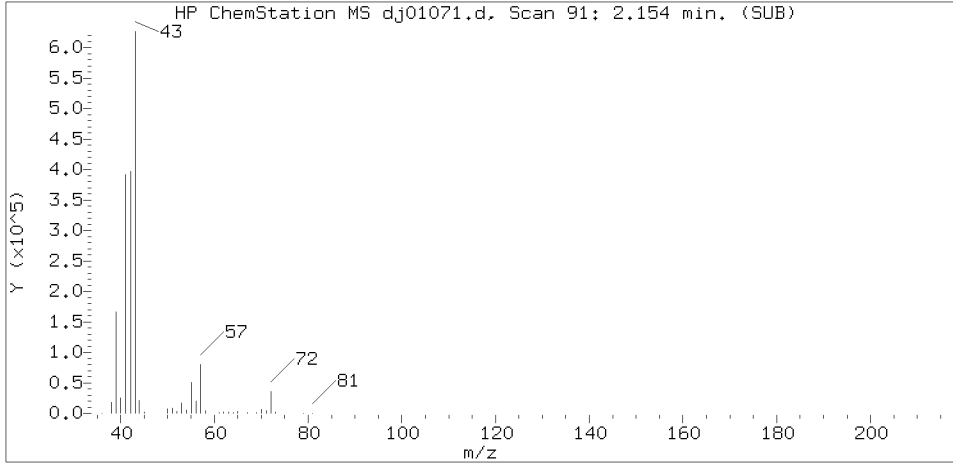
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
13) Pentane	(1)	3.280	43	1058504	16.472
17) 1,1-Dichloroethene	(1)	3.826	61	63980	0.764
19) Acetone	(1)	4.039	43	624481M	10.183
21) Carbon Disulfide	(1)	4.099	76	362441	2.358
28) trans-1,2-Dichloroethene	(1)	5.071	61	171555	2.448
29) Methyl t-Butyl Ether	(1)	5.178	73	567738	3.409
30) Hexane	(1)	5.605	57	66730	0.896
35) cis-1,2-Dichloroethene	(1)	6.874	61	4547435	65.524
37) 2-Butanone	(1)	7.051	72	51156M	2.000
40)*Bromochloromethane	(1)	7.289	130	692997	10.000
46) Benzene	(2)	8.427	78	1720098	9.990
48) Isooctane	(2)	8.629	57	140788	0.617
50) Heptane	(2)	9.032	43	21313	0.311
51)*1,4-Difluorobenzene	(2)	9.210	114	2555160	10.000
52) Trichloroethene	(2)	9.648	130	1975477	21.321
54) 1,2-Dichloropropane	(2)	10.064	63	44685	0.885
61) Toluene	(3)	12.293	91	3641145	14.858
62) Octane	(3)	12.708	43	146787	1.501
67) Tetrachloroethene	(3)	13.479	166	100758	0.583
70) 1,2-Dibromoethane	(3)	14.285	107	31942	0.239
71)*Chlorobenzene-d5	(3)	15.435	117	2470511	10.000
72) Chlorobenzene	(3)	15.495	112	42795	0.209
74) Ethylbenzene	(3)	15.850	91	1932695	5.950
75) m/p-Xylene	(3)	16.159	91	3856347	13.411
76) o-Xylene	(3)	17.131	91	2507891	9.207
79) Bromoform	(3)	17.558	173	41340	0.231
80) Cumene	(3)	18.127	105	196437	0.495
83) 1,2,3-Trichloropropane	(3)	19.005	110	17205	0.284
86) 4-Ethyltoluene	(3)	19.538	105	394719M	1.012
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	804531	2.276
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	593745	1.761
92) 1,3-Dichlorobenzene	(3)	21.365	146	90370	0.448
93) 1,4-Dichlorobenzene	(3)	21.661	146	103844	0.527
96) 1,2-Dichlorobenzene	(3)	22.823	146	94437	0.491

M = Compound was manually integrated.

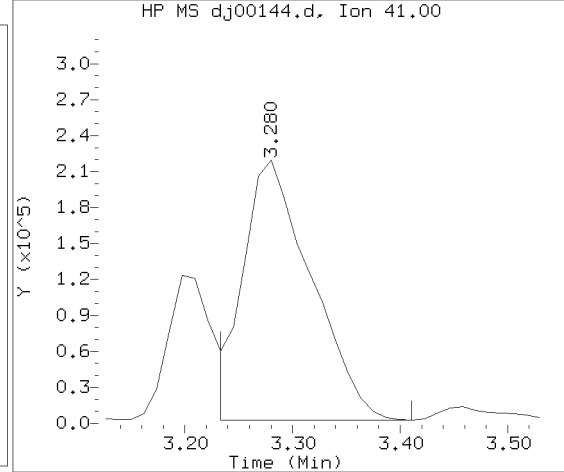
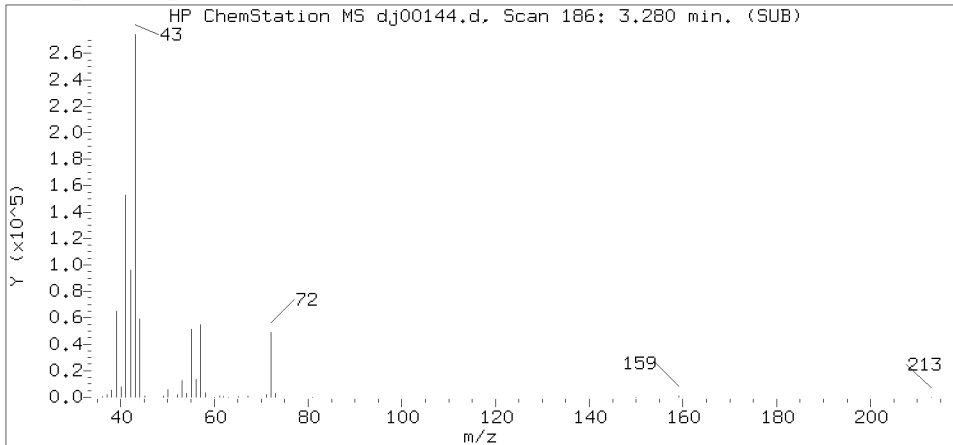
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/16/2015 at 08:55.
 Target 3.5 esignature user ID: jbs01304

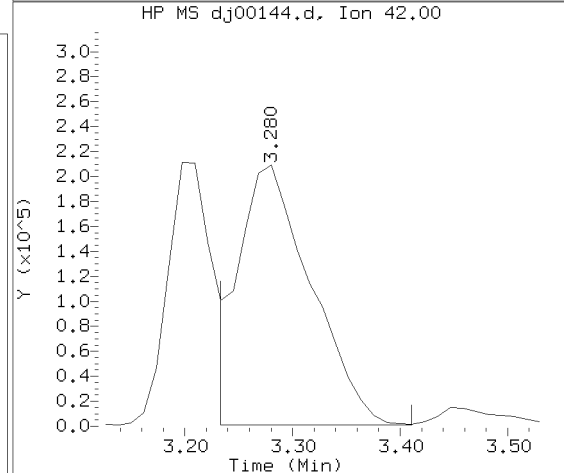
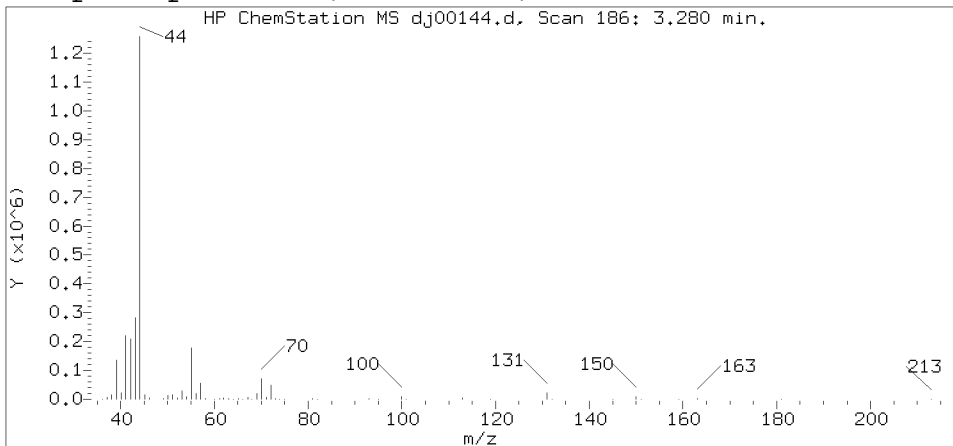
Reference Standard Spectrum for Pentane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

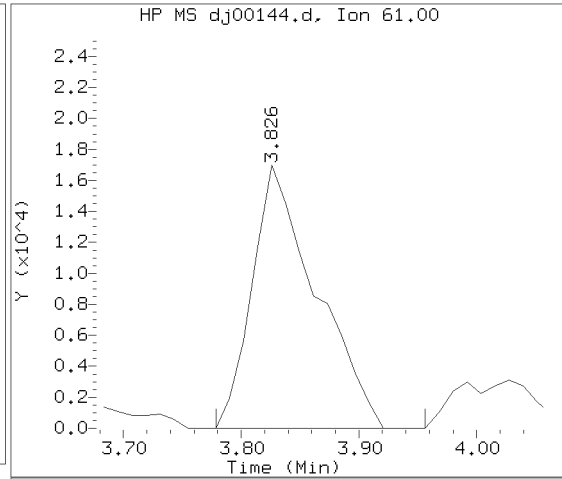
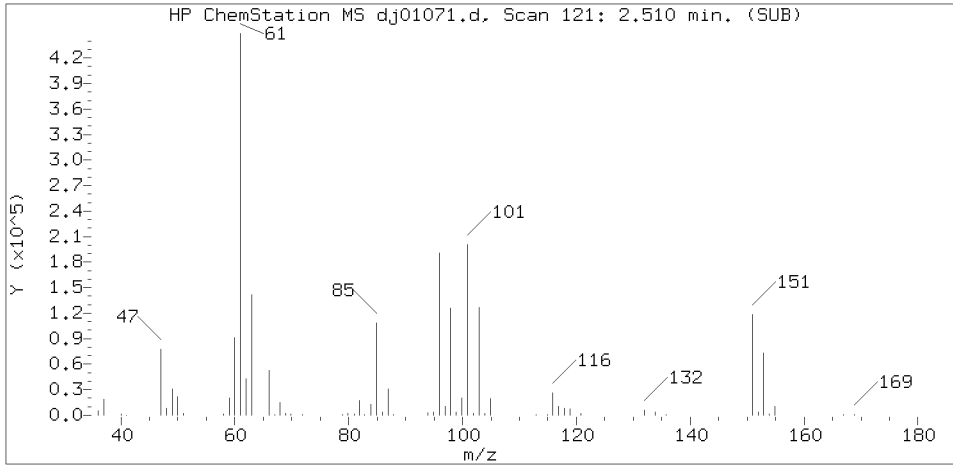
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

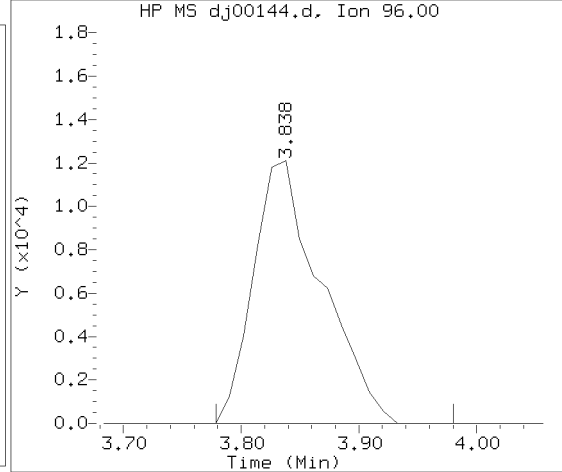
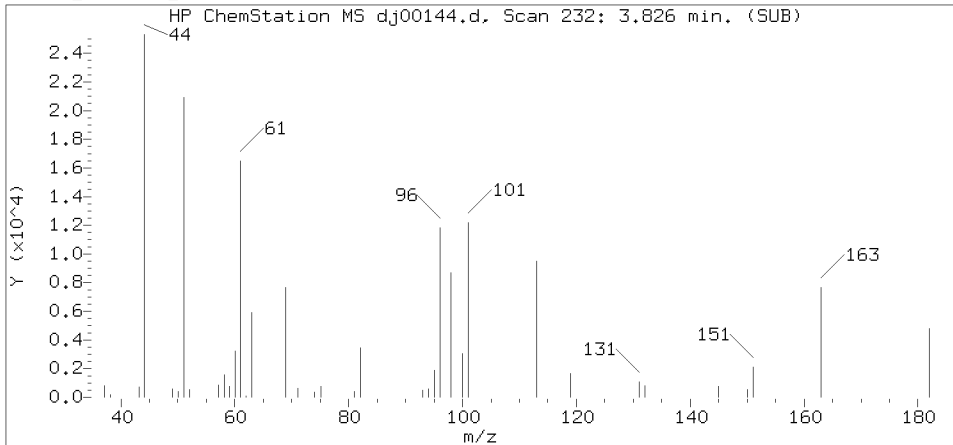
Lab Sample ID: 8065068

Compound Number : 13
 Compound Name : Pentane
 Scan Number : 186
 Retention Time (minutes): 3.280
 Relative Retention Time : 0.00148
 Quant Ion : 43.00
 Area (flag) : 1058504
 Concentration (ppb(v)) : 16.4725

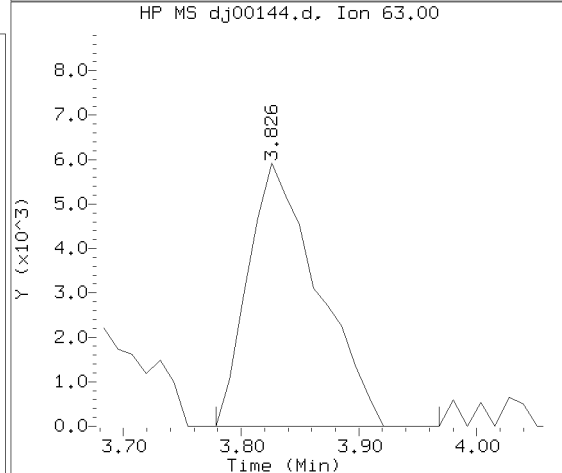
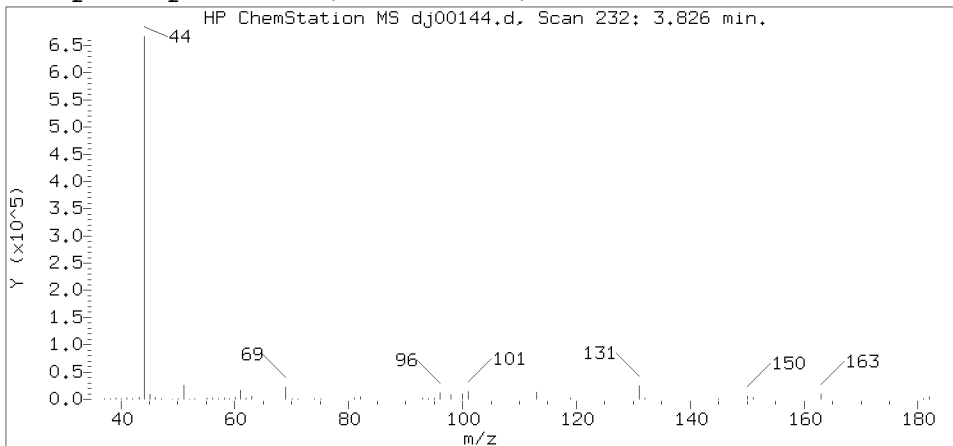
Reference Standard Spectrum for 1,1-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

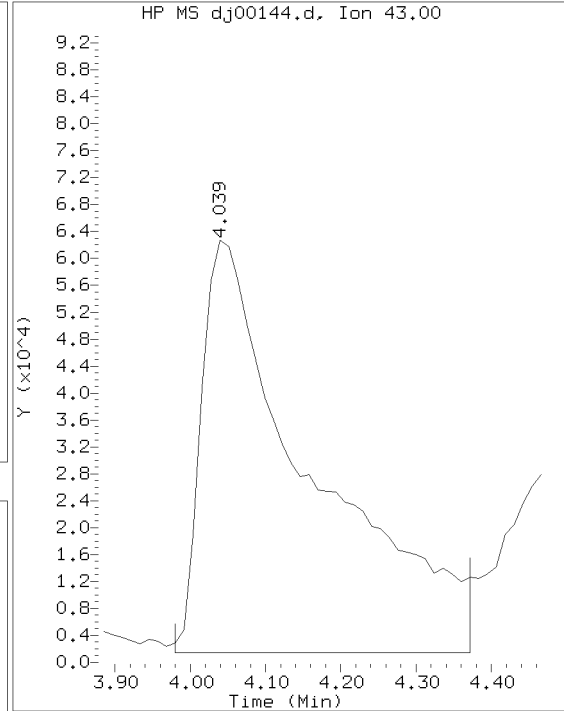
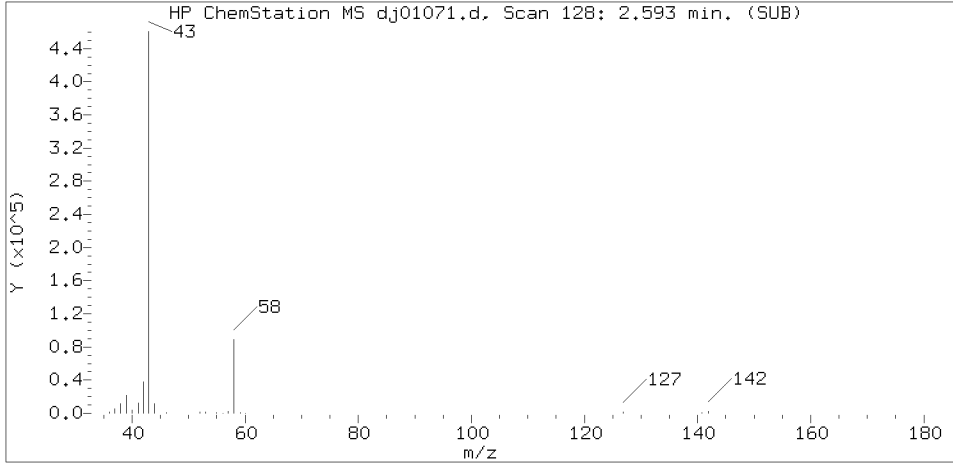
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

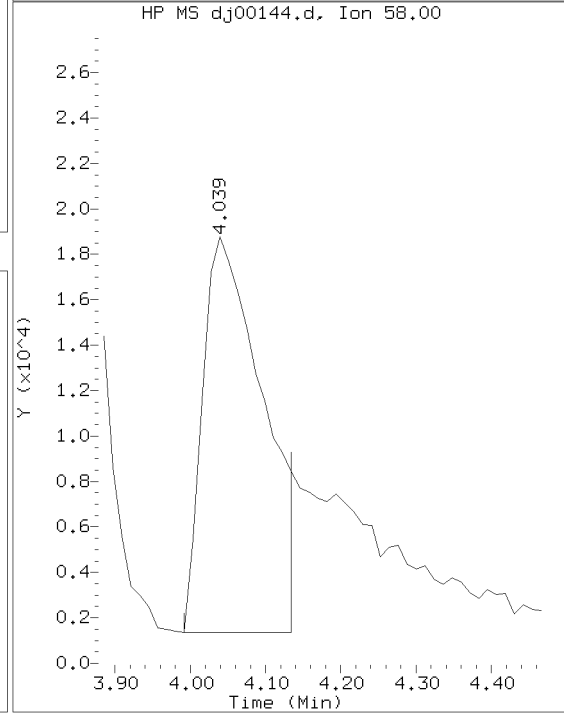
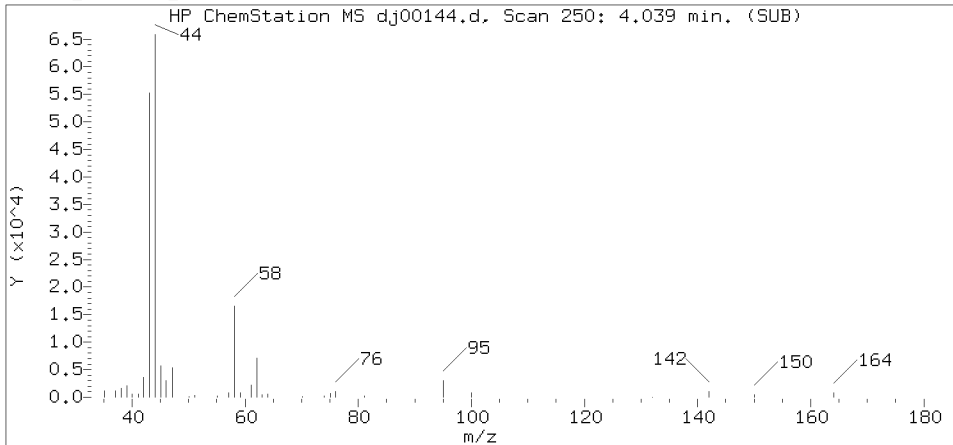
Lab Sample ID: 8065068

Compound Number : 17
 Compound Name : 1,1-Dichloroethene
 Scan Number : 232
 Retention Time (minutes): 3.826
 Relative Retention Time : 0.00172
 Quant Ion : 61.00
 Area (flag) : 63980
 Concentration (ppb(v)) : 0.7640

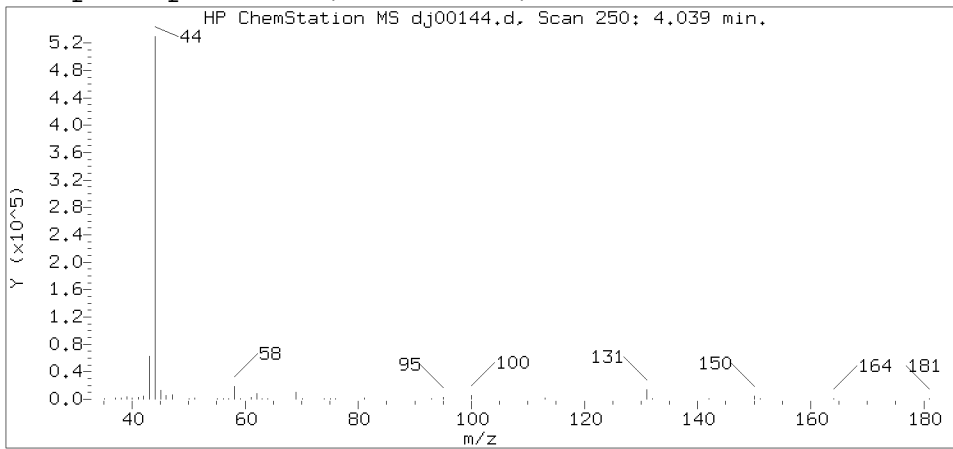
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

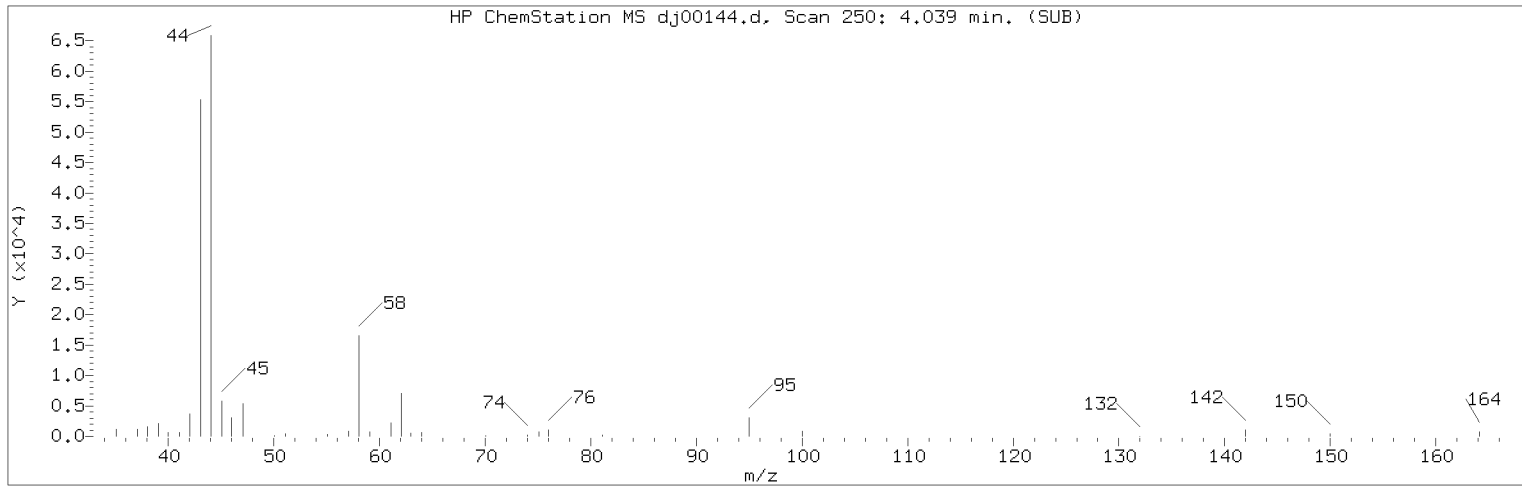
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 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

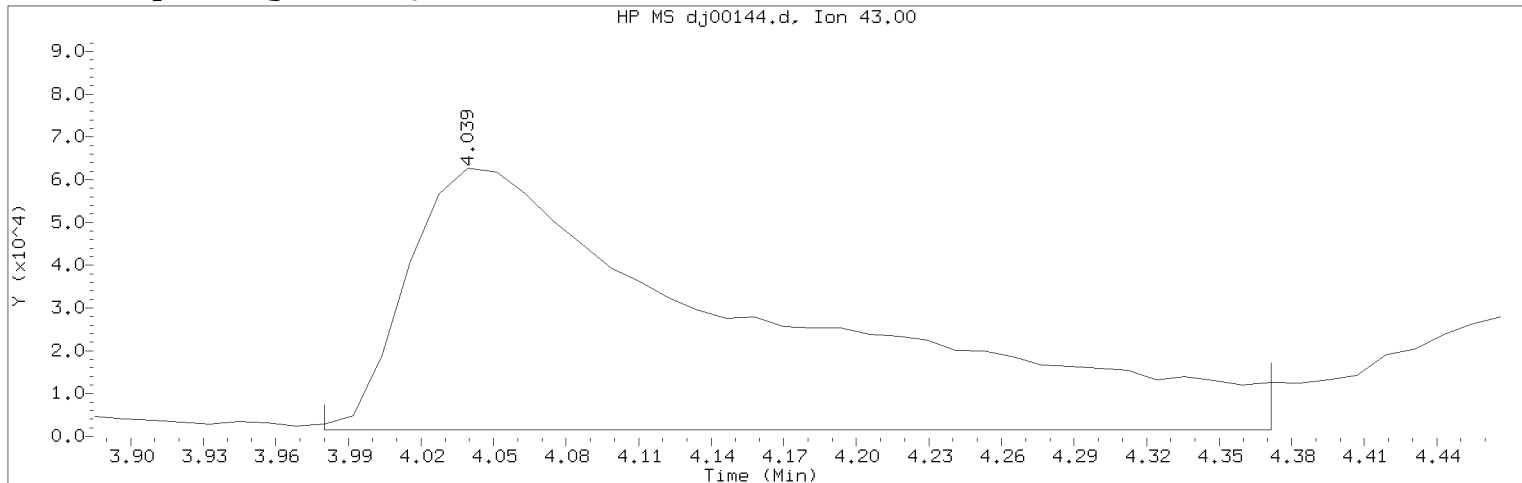
Lab Sample ID: 8065068

Compound Number : 19
 Compound Name : Acetone
 Scan Number : 250
 Retention Time (minutes): 4.039
 Relative Retention Time : -0.00798
 Quant Ion : 43.00
 Area (flag) : 624481M
 Concentration (ppb(v)) : 10.1834

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3 Lab Sample ID: 8065068

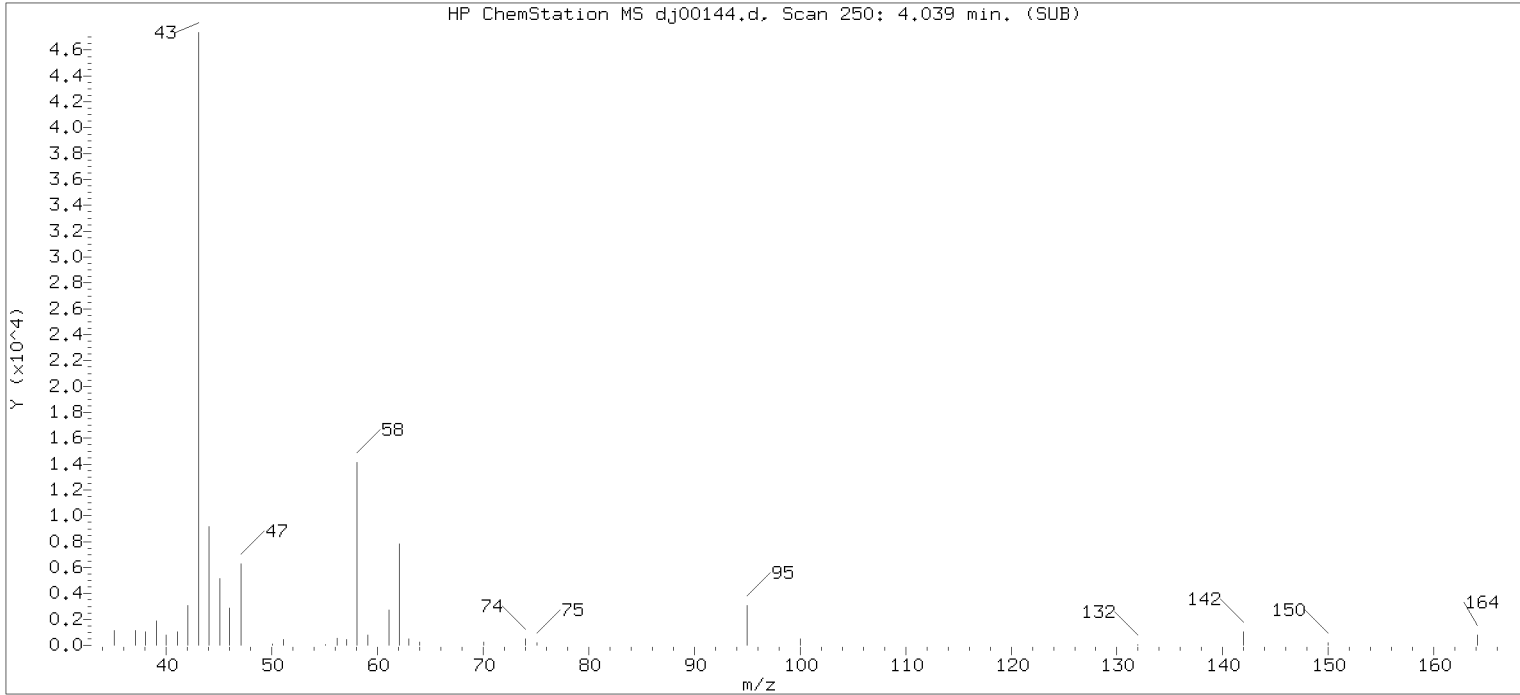
Compound Number : 19
Compound Name : Acetone
Scan Number : 250
Retention Time (minutes): 4.039
Quant Ion : 43.00
Area (flag) : 624481M
Concentration (ppb(v)) : 10.1834
Integration start scan : 244 Integration stop scan: 277
Y at integration start : 1457 Y at integration end: 1457

Reason for manual integration: improper integration

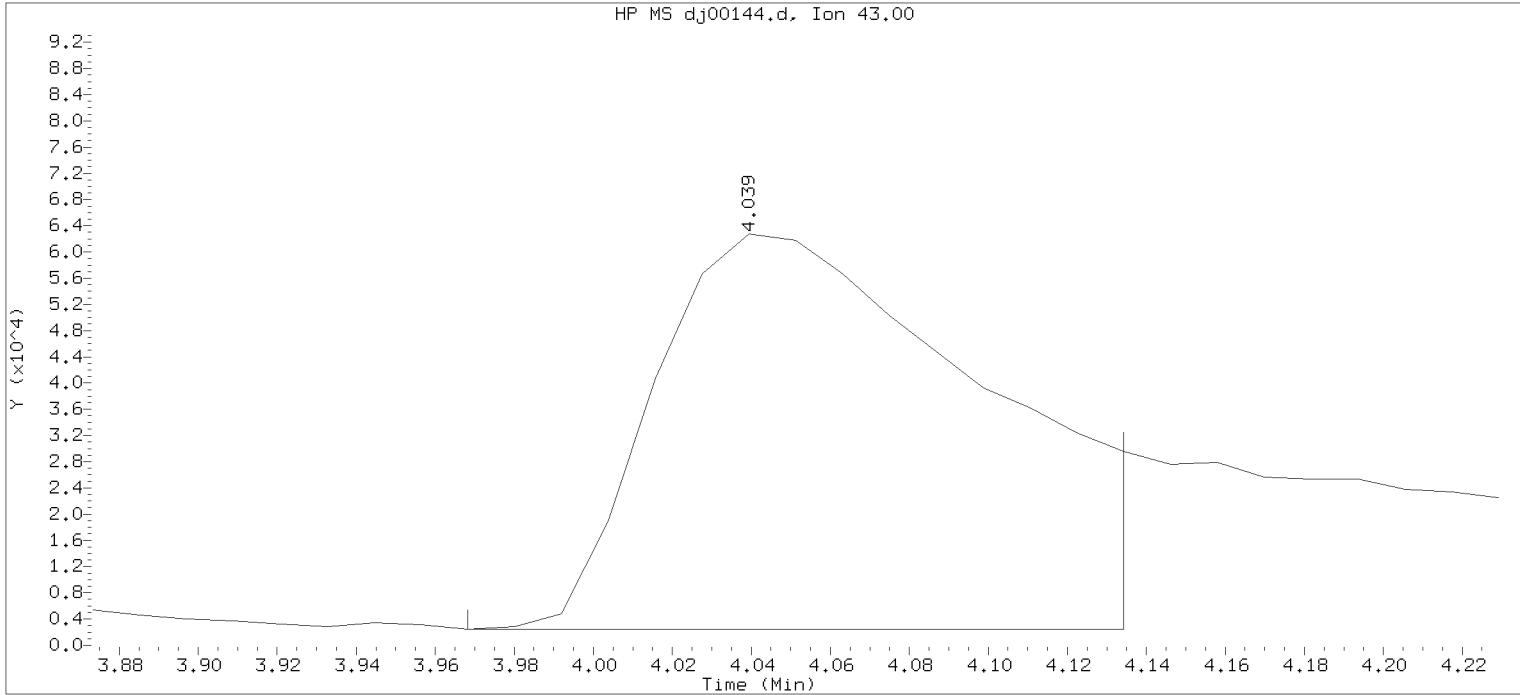
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 08:55.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:04.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



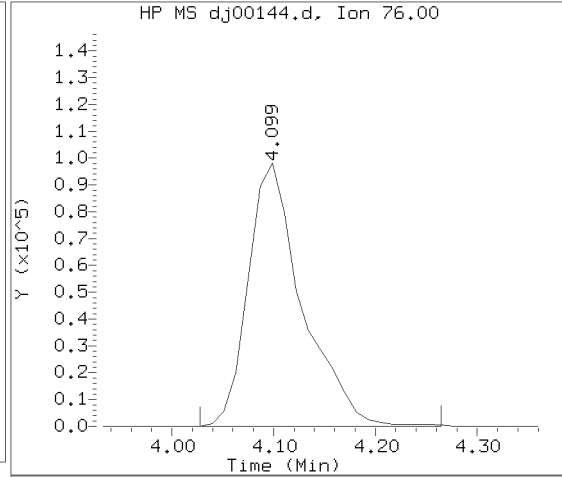
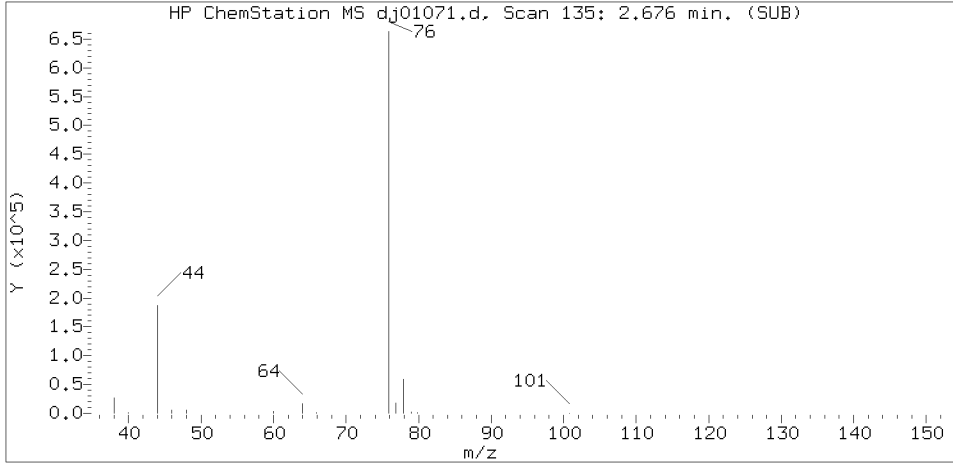
Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 08-Oct-2015 02:12 Automation

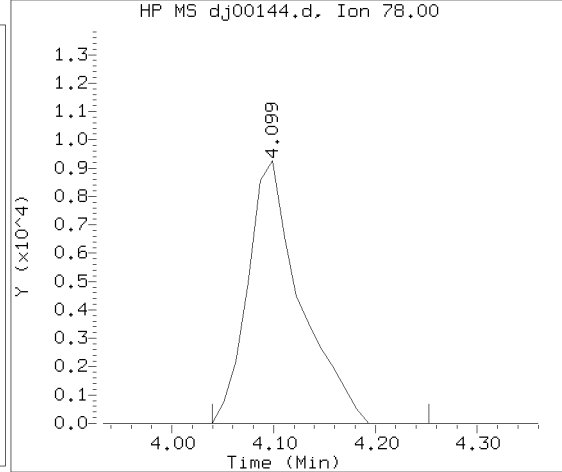
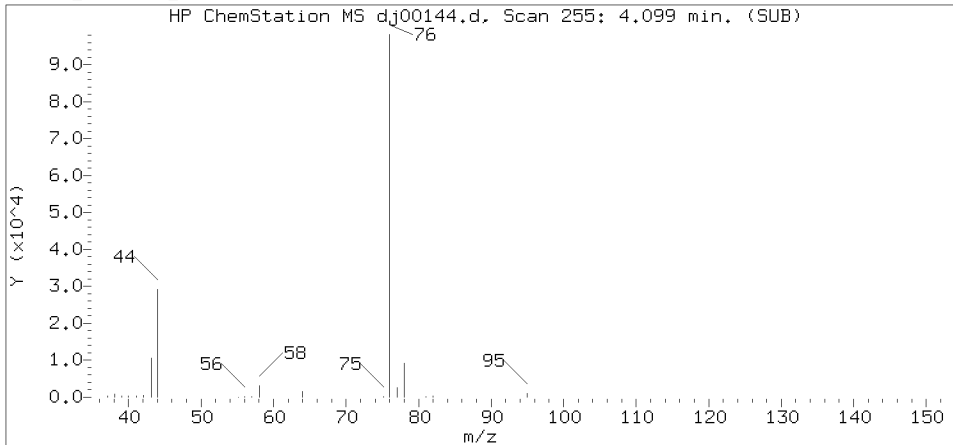
Sample Name: SVMP3 Lab Sample ID: 8065068

Compound Number : 19
Compound Name : Acetone
Scan Number : 250
Retention Time (minutes): 4.039
Quant Ion : 43.00
Area : 349007
Concentration (ppb(v)) : 5.6912
Integration start scan : 243 Integration stop scan: 257
Y at integration start : 2403 Y at integration end: 2403

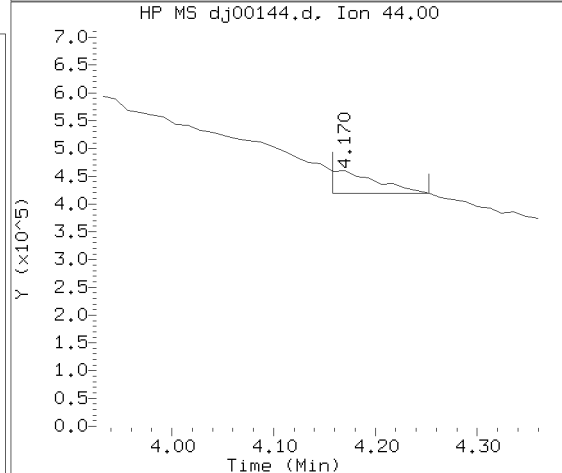
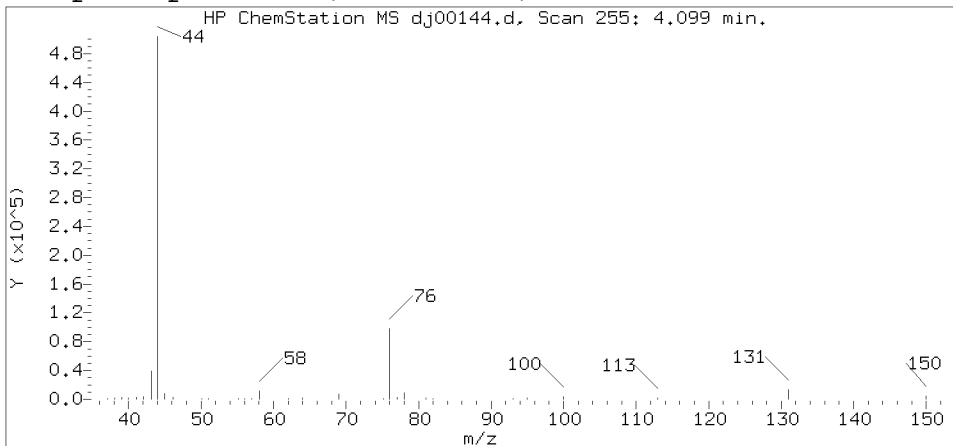
Reference Standard Spectrum for Carbon Disulfide



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

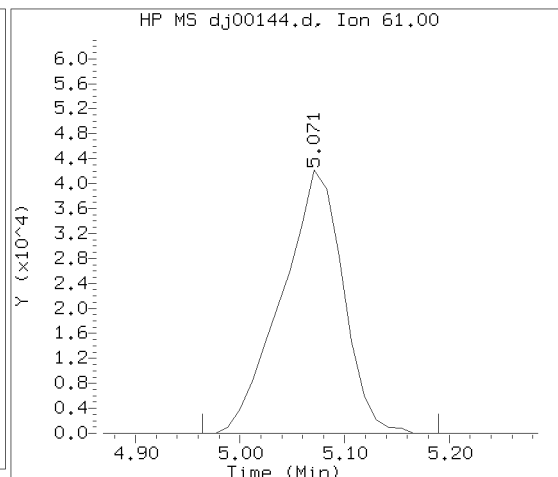
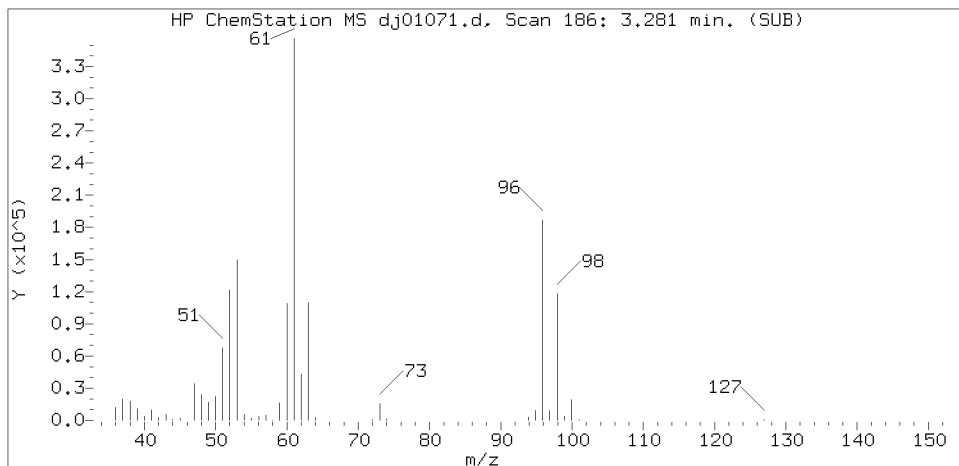
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

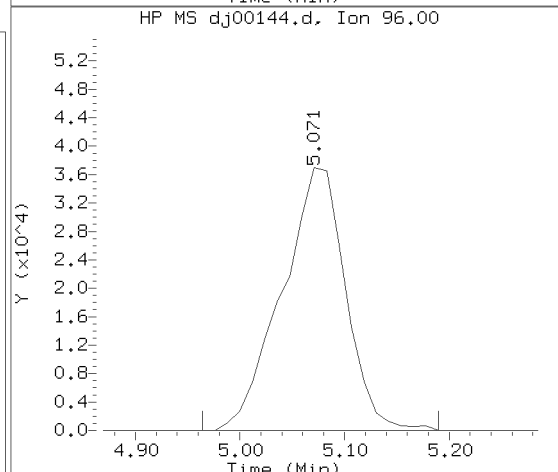
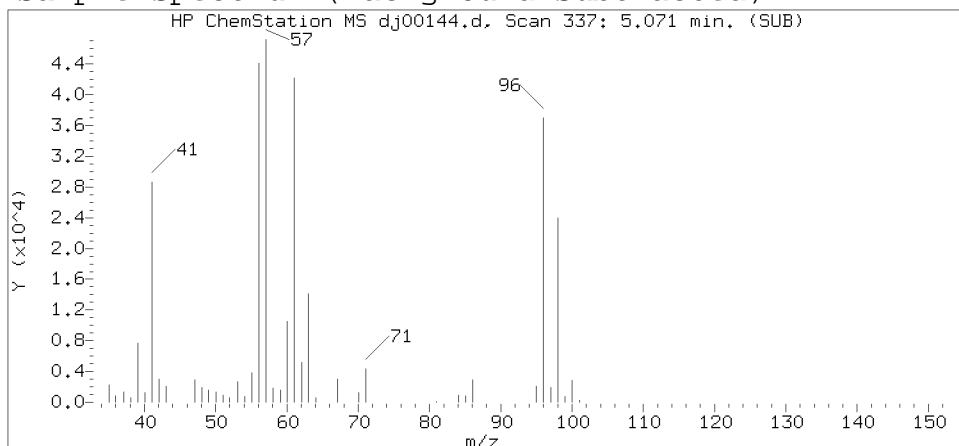
Lab Sample ID: 8065068

Compound Number : 21
 Compound Name : Carbon Disulfide
 Scan Number : 255
 Retention Time (minutes): 4.099
 Relative Retention Time : 0.00184
 Quant Ion : 76.00
 Area (flag) : 362441
 Concentration (ppb(v)) : 2.3583

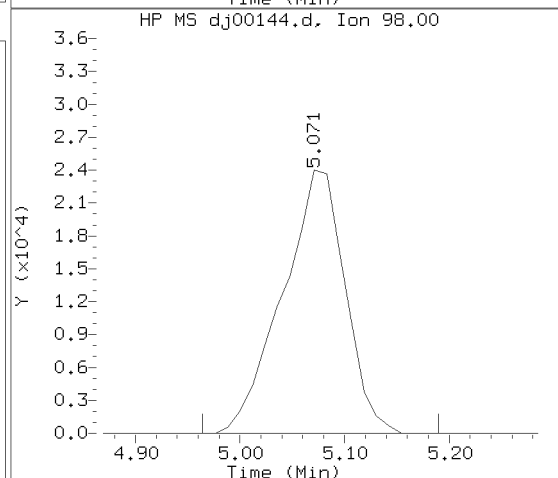
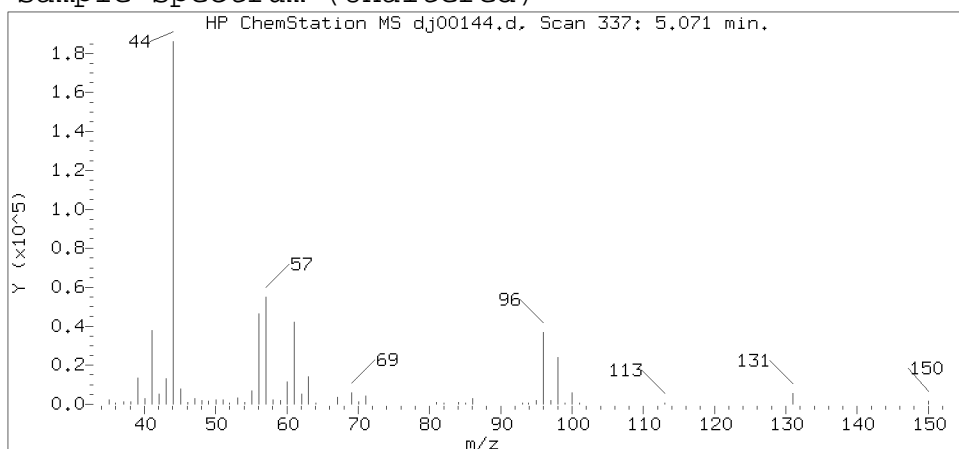
Reference Standard Spectrum for trans-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

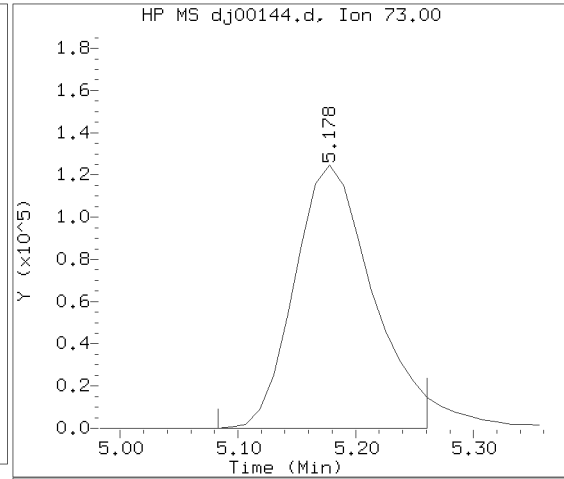
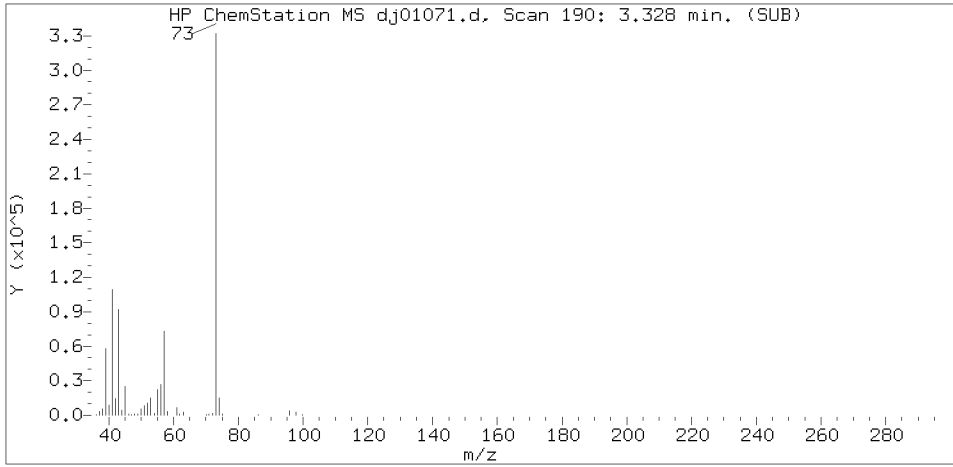
Sublist used: 292

Sample Name: SVMP3

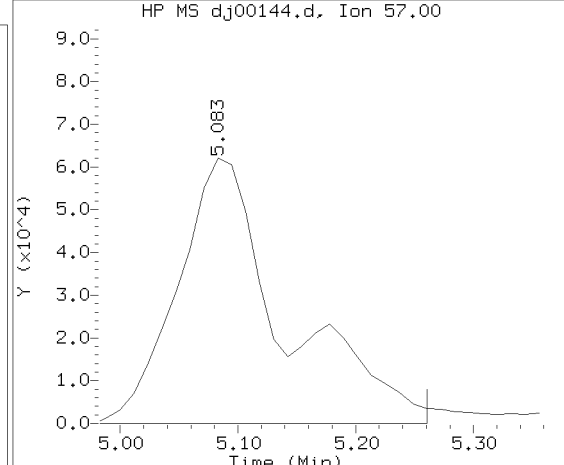
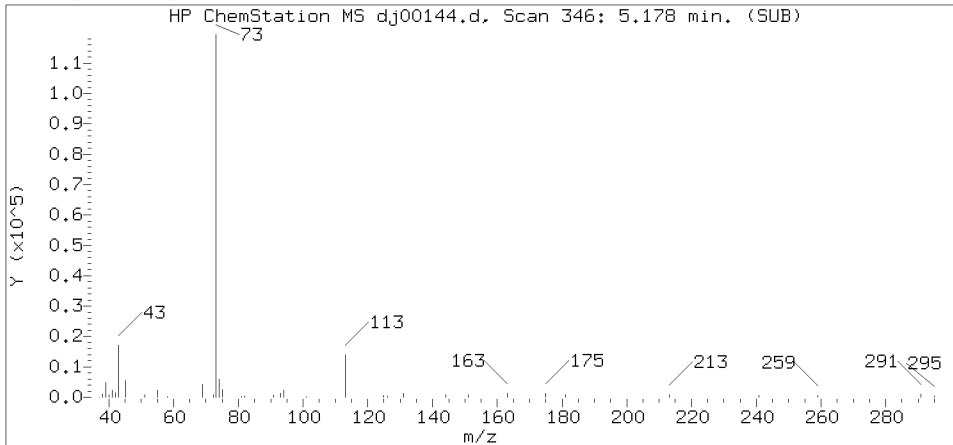
Lab Sample ID: 8065068

Compound Number : 28
Compound Name : trans-1,2-Dichloroethene
Scan Number : 337
Retention Time (minutes): 5.071
Relative Retention Time : -0.00262
Quant Ion : 61.00
Area (flag) : 171555
Concentration (ppb(v)) : 2.4478

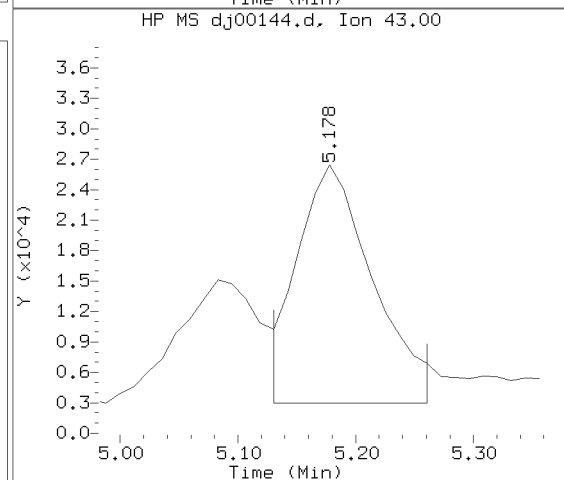
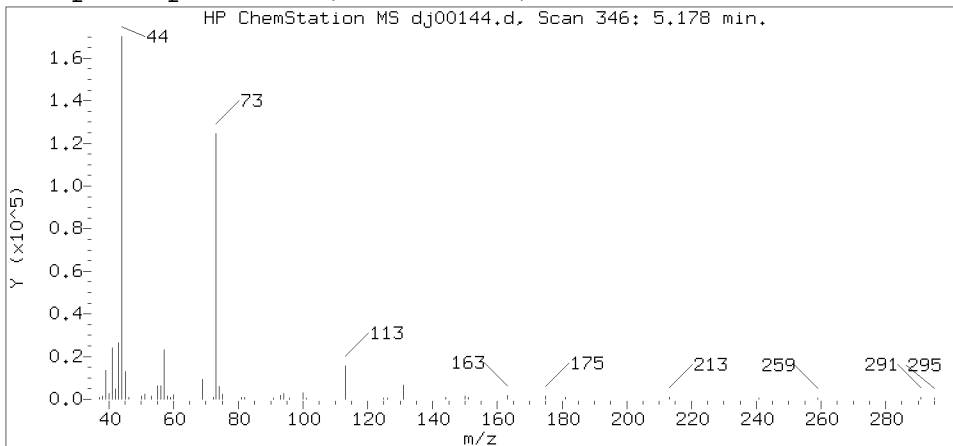
Reference Standard Spectrum for Methyl t-Butyl Ether



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

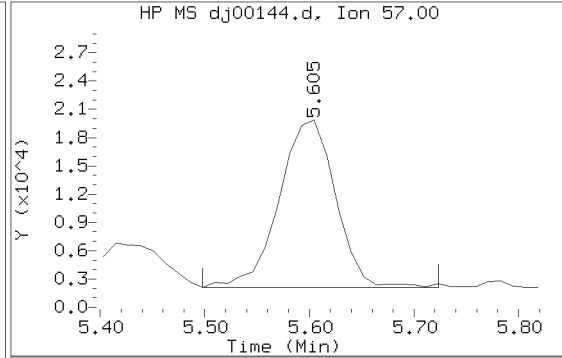
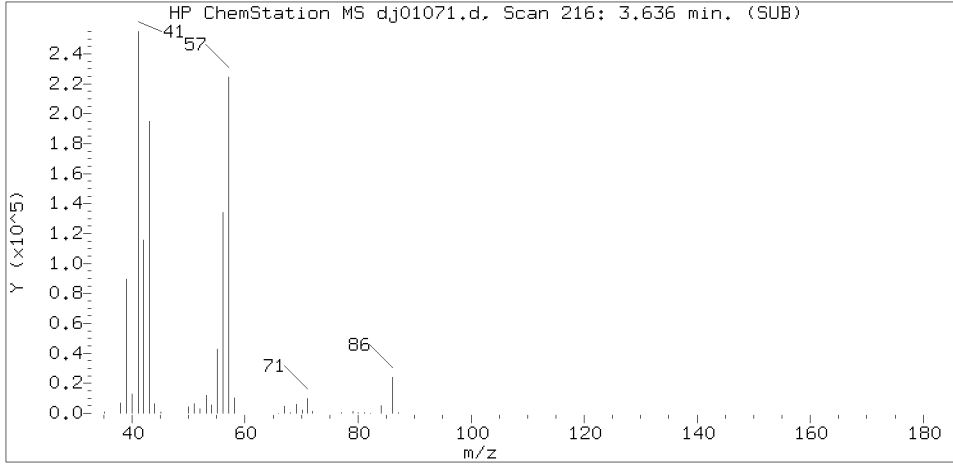
Sublist used: 292

Sample Name: SVMP3

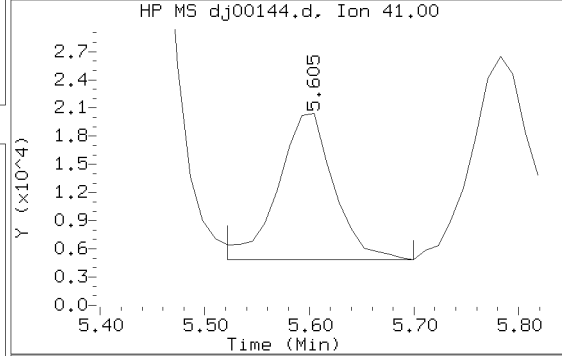
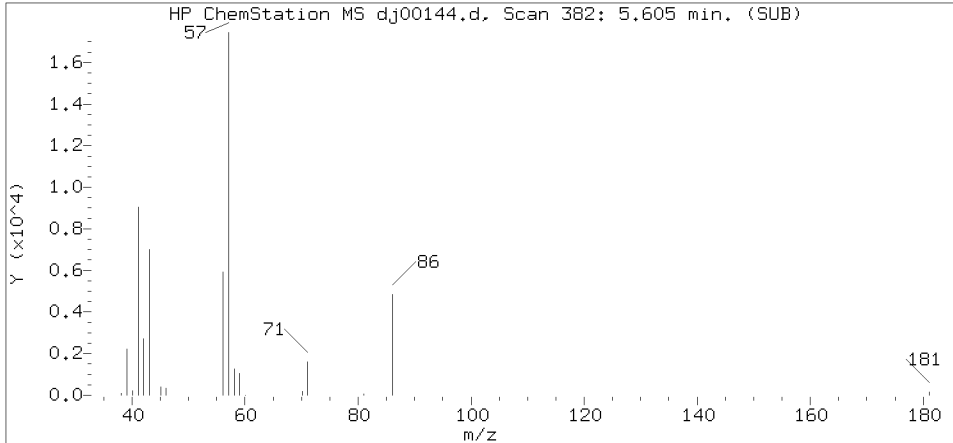
Lab Sample ID: 8065068

Compound Number : 29
 Compound Name : Methyl t-Butyl Ether
 Scan Number : 346
 Retention Time (minutes): 5.178
 Relative Retention Time : -0.00747
 Quant Ion : 73.00
 Area (flag) : 567738
 Concentration (ppb(v)) : 3.4088

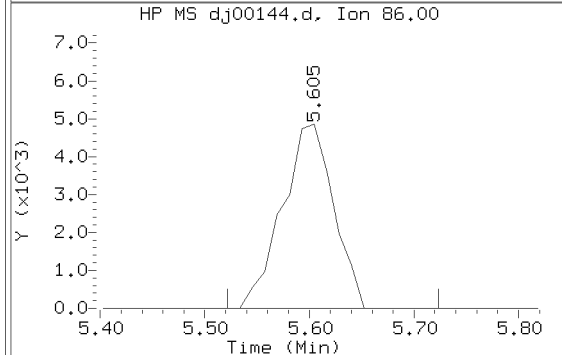
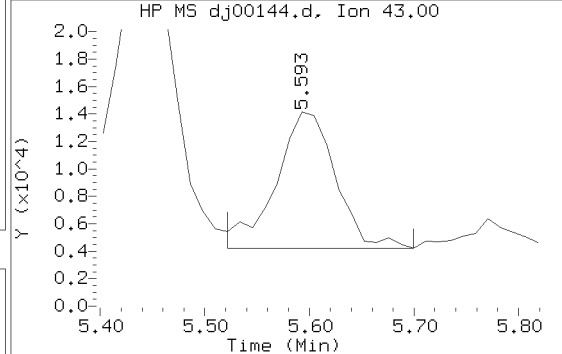
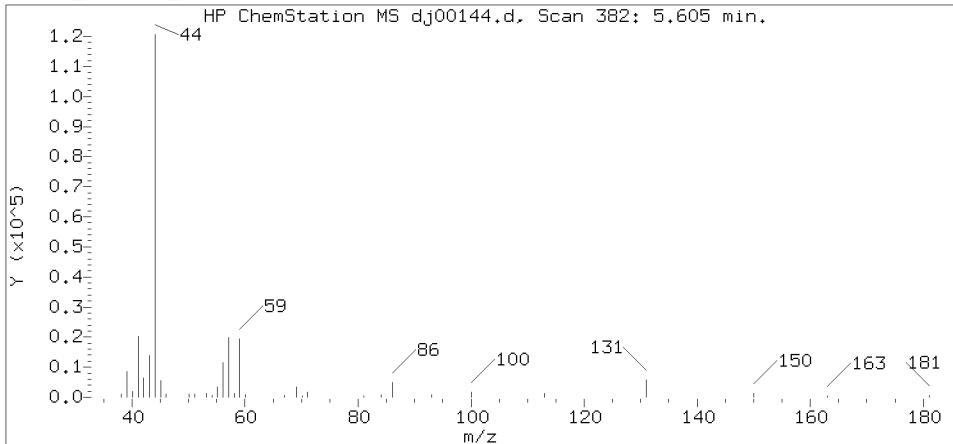
Reference Standard Spectrum for Hexane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

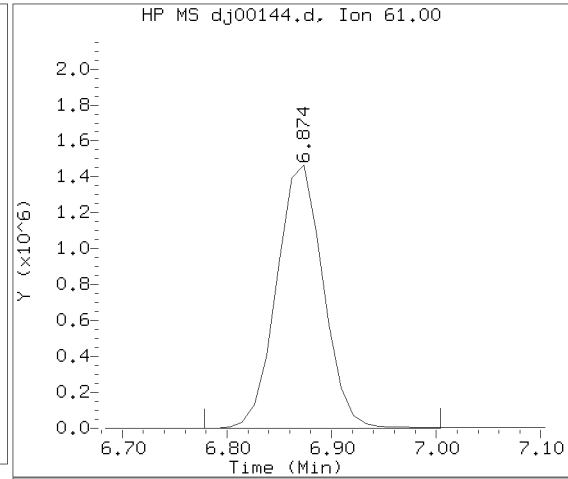
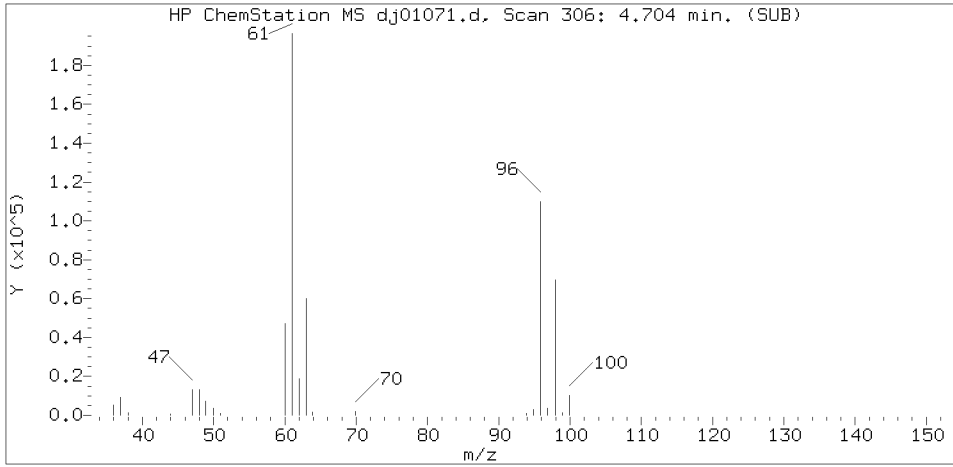
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

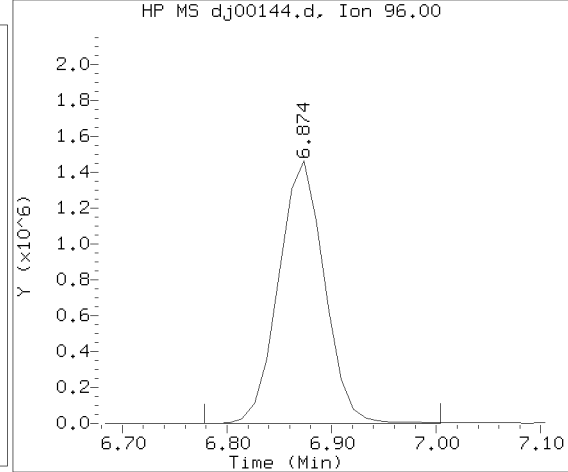
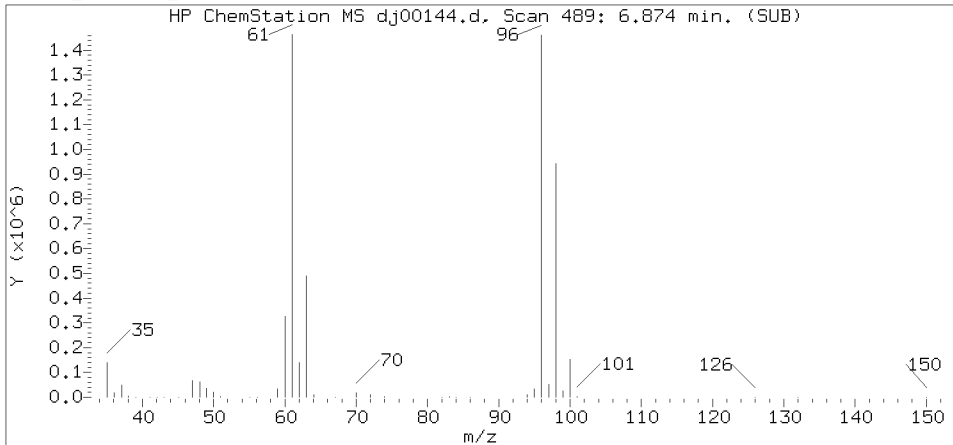
Lab Sample ID: 8065068

Compound Number : 30
 Compound Name : Hexane
 Scan Number : 382
 Retention Time (minutes): 5.605
 Relative Retention Time : -0.00238
 Quant Ion : 57.00
 Area (flag) : 66730
 Concentration (ppb(v)) : 0.8961

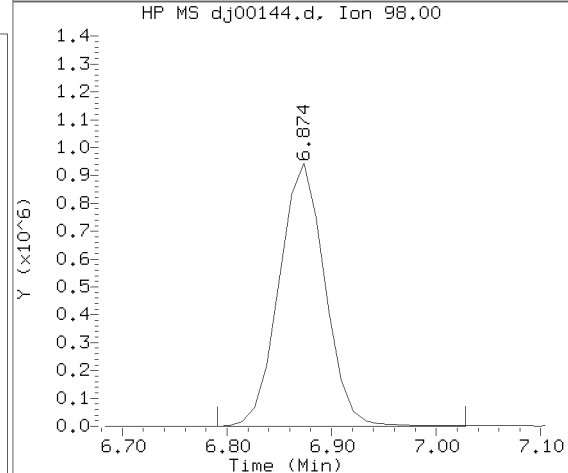
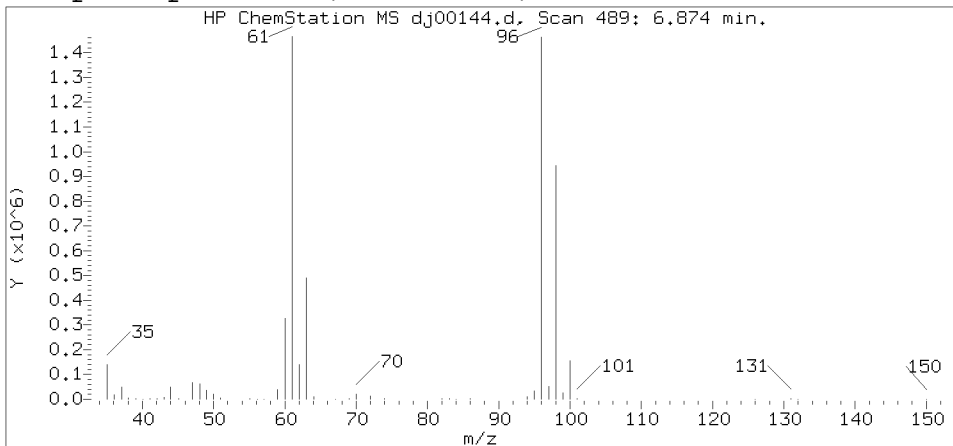
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

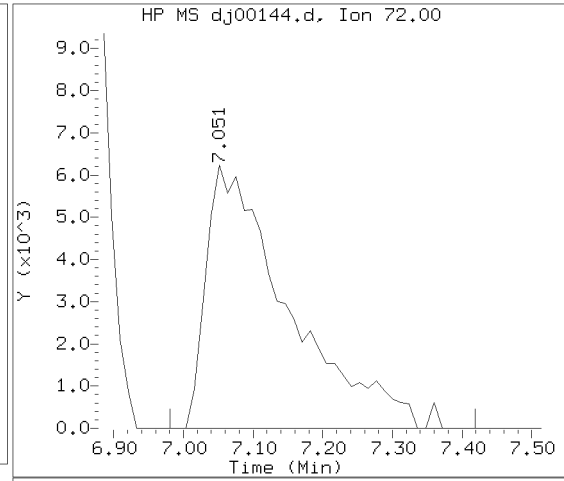
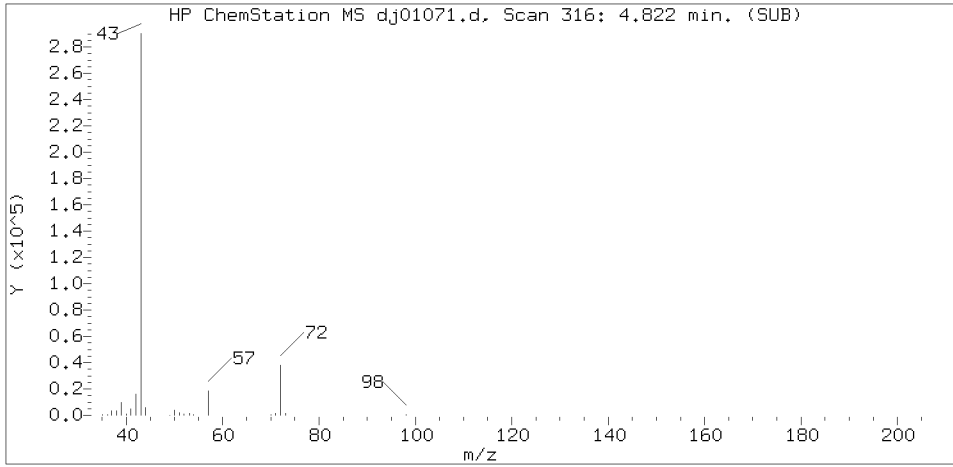
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

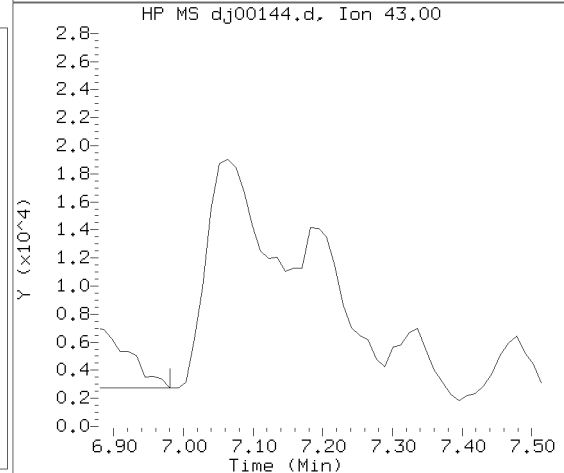
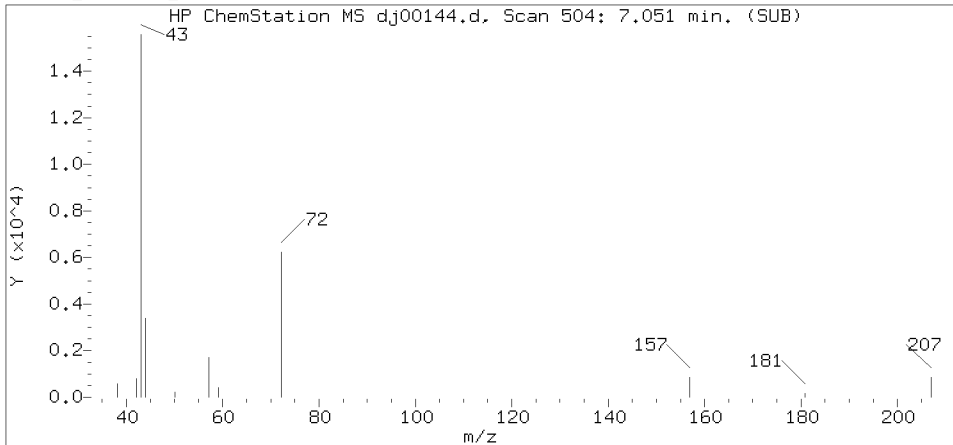
Lab Sample ID: 8065068

Compound Number : 35
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 489
 Retention Time (minutes): 6.874
 Relative Retention Time : -0.00018
 Quant Ion : 61.00
 Area (flag) : 4547435
 Concentration (ppb(v)) : 65.5240

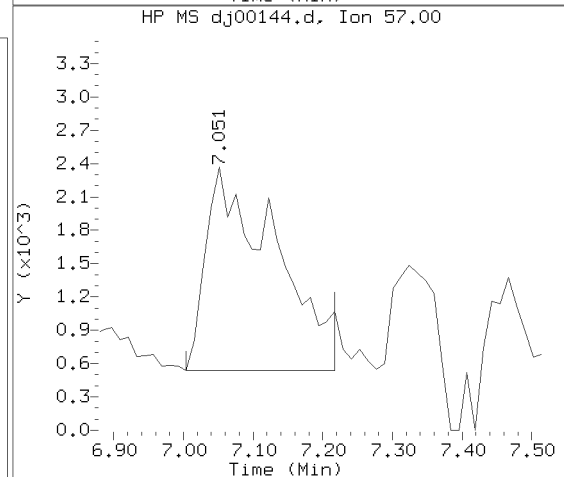
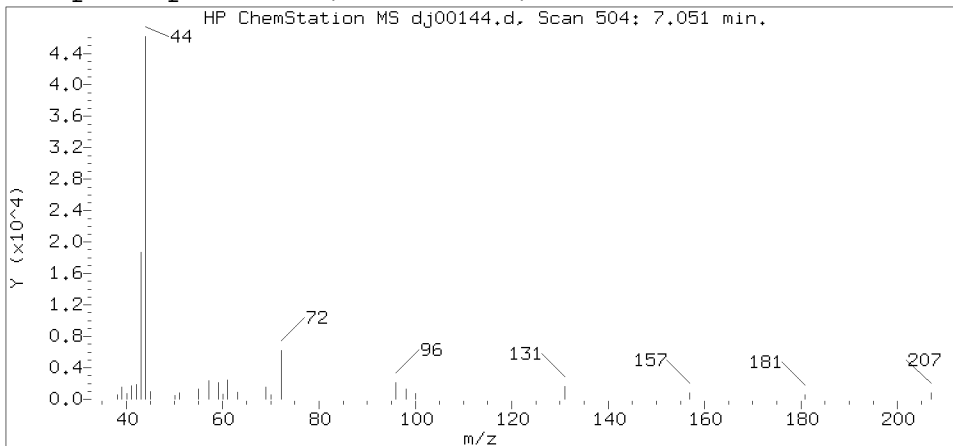
Reference Standard Spectrum for 2-Butanone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

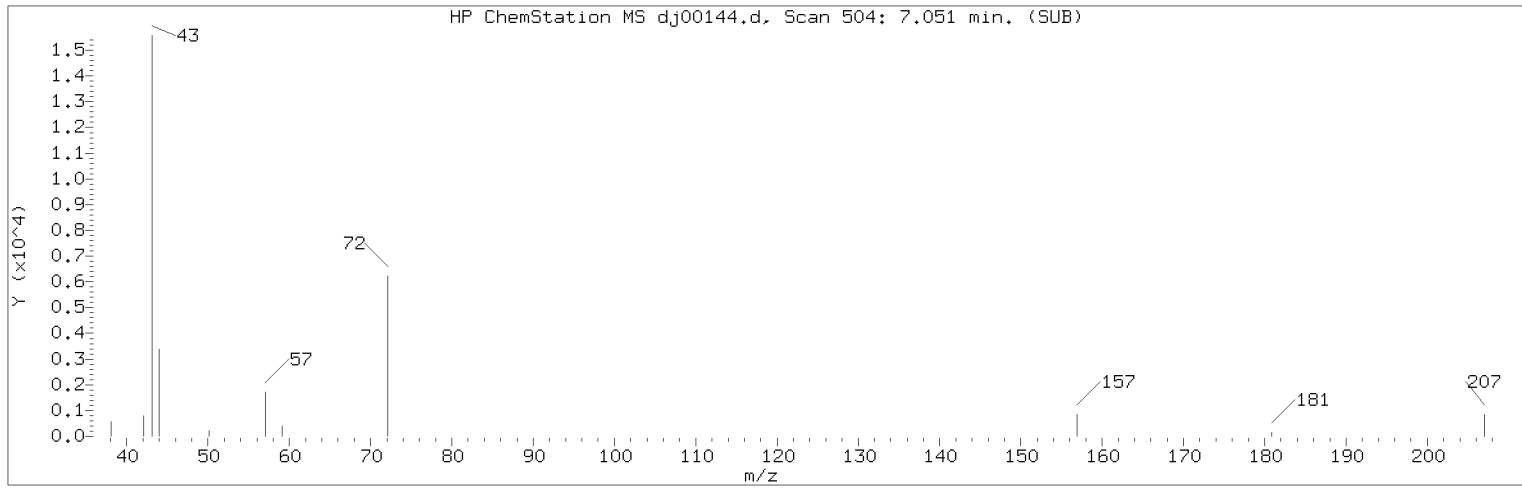
Lab Sample ID: 8065068

Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 504
 Retention Time (minutes): 7.051
 Relative Retention Time : -0.00827
 Quant Ion : 72.00
 Area (flag) : 51156M
 Concentration (ppb(v)) : 2.0004

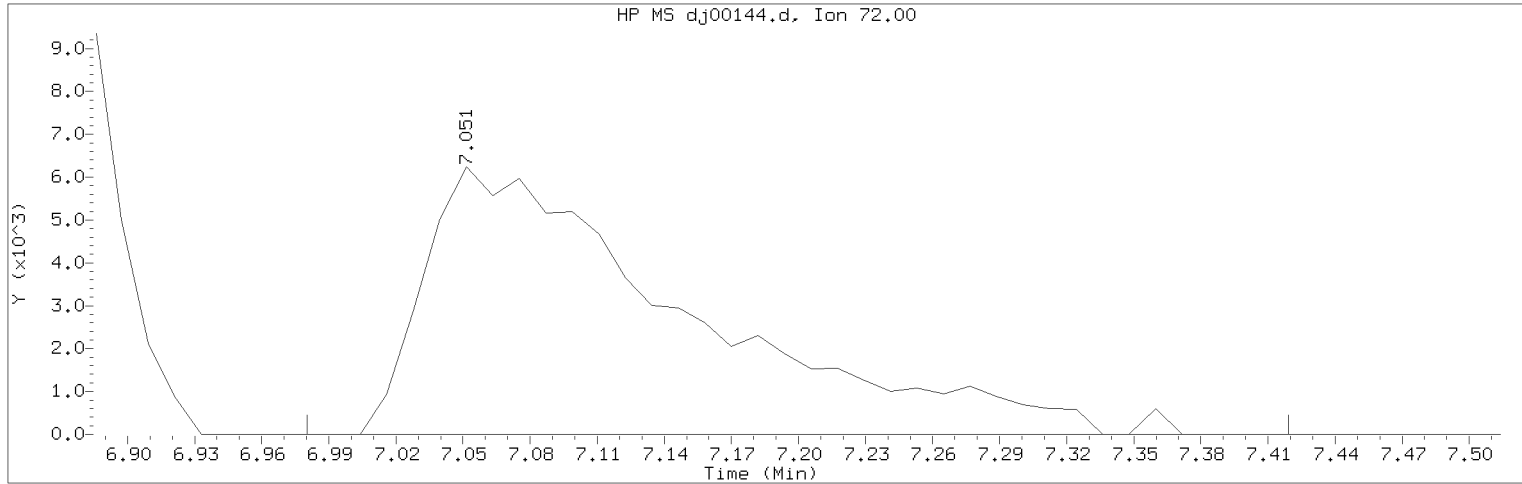
Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:55.

Target 3.5 esignature user ID: jbs01304
 SSX07 Page 96 of 641

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
 Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3 Lab Sample ID: 8065068

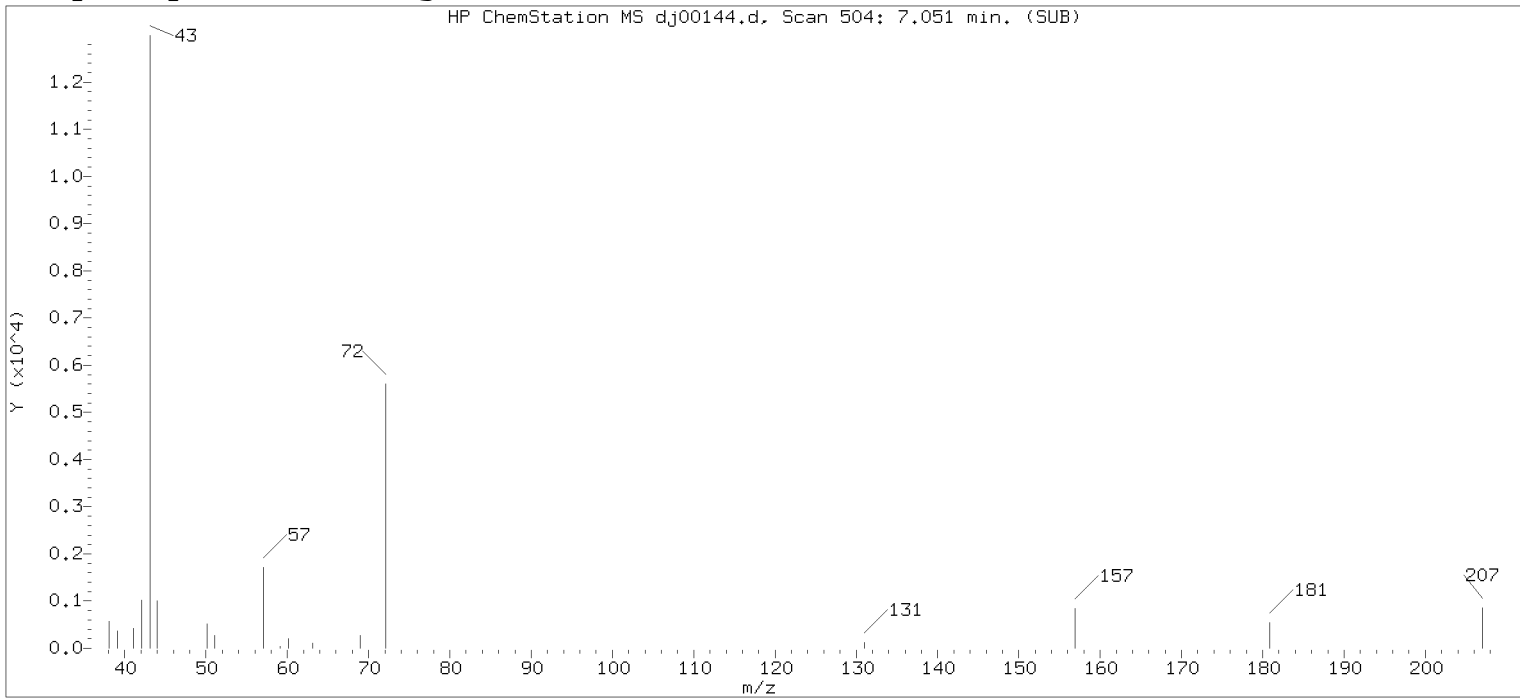
Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 504
 Retention Time (minutes): 7.051
 Quant Ion : 72.00
 Area (flag) : 51156M
 Concentration (ppb(v)) : 2.0004
 Integration start scan : 497 Integration stop scan: 534
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

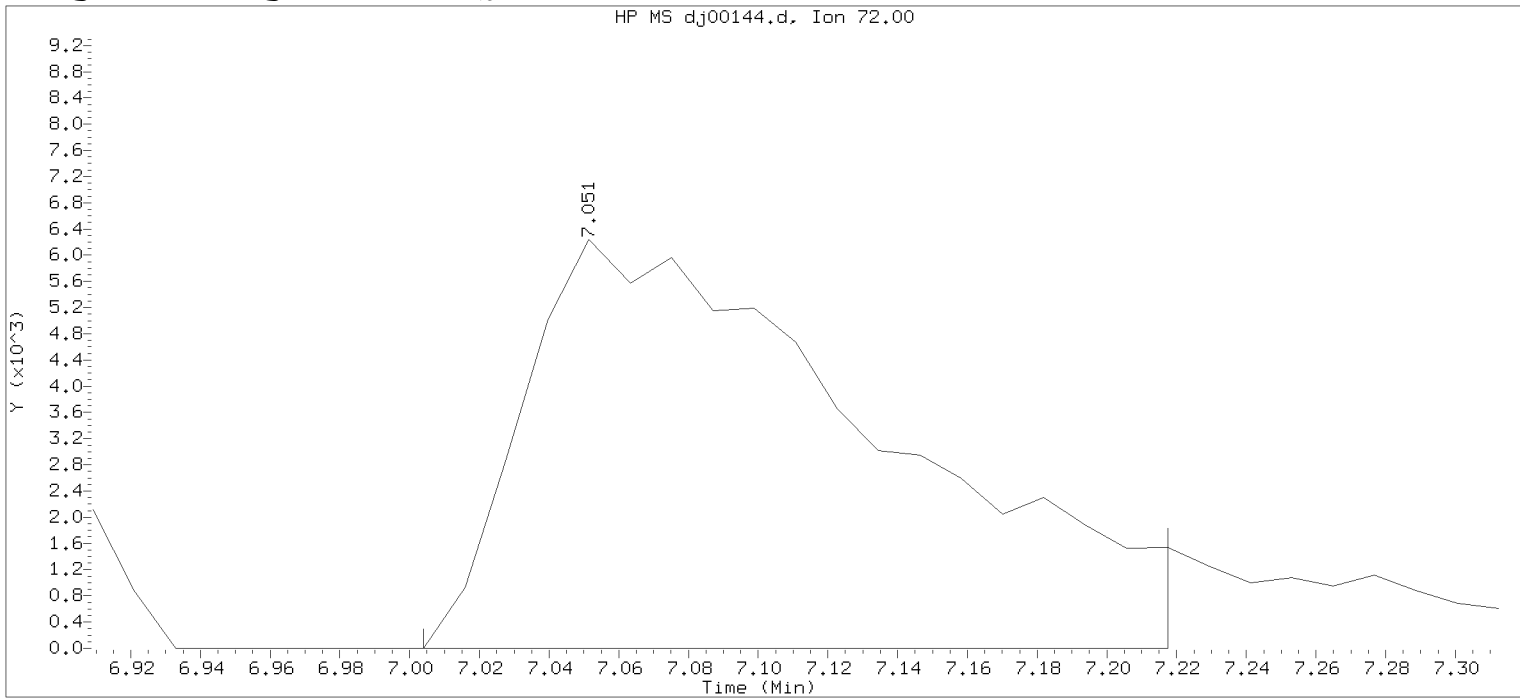
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/16/2015 at 08:55.
 Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:04.
 Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



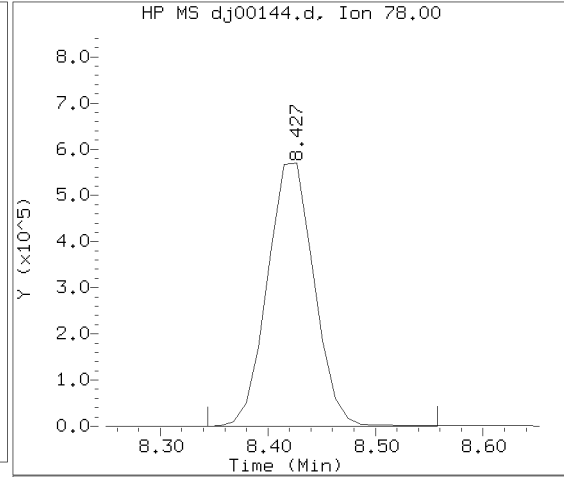
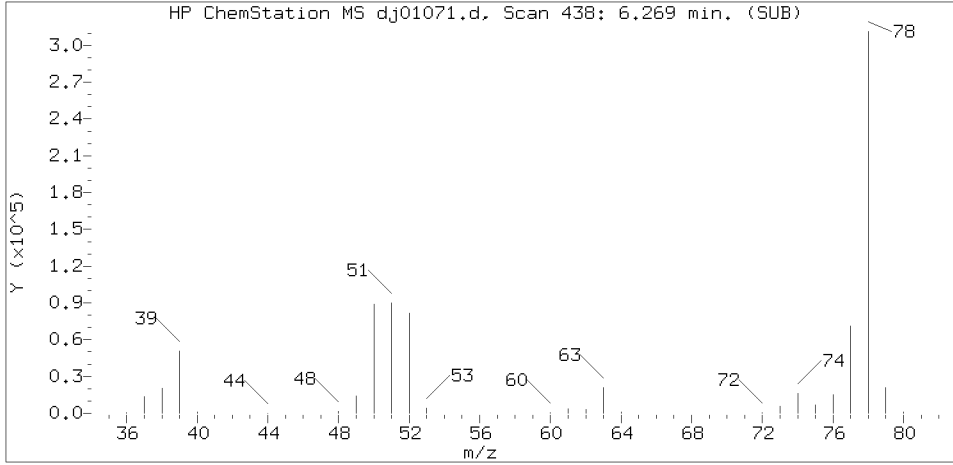
Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
 Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 08-Oct-2015 02:12 Automation

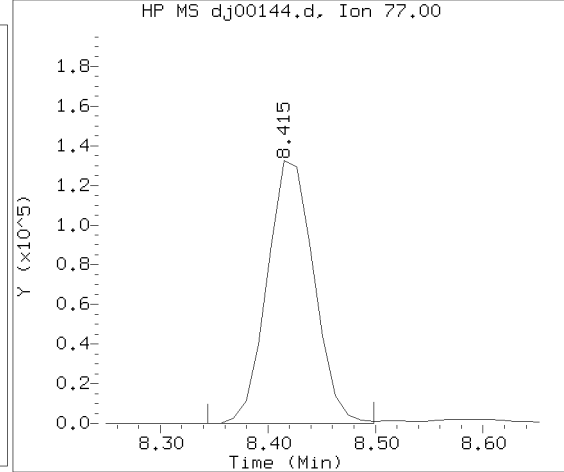
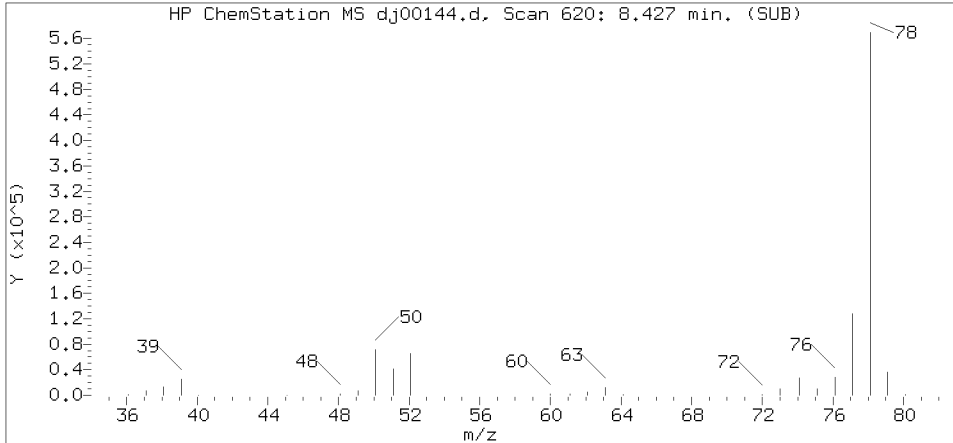
Sample Name: SVMP3 Lab Sample ID: 8065068

Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 504
 Retention Time (minutes): 7.051
 Quant Ion : 72.00
 Area : 44380
 Concentration (ppb(v)) : 1.7354
 Integration start scan : 499 Integration stop scan: 517
 Y at integration start : 0 Y at integration end: 0

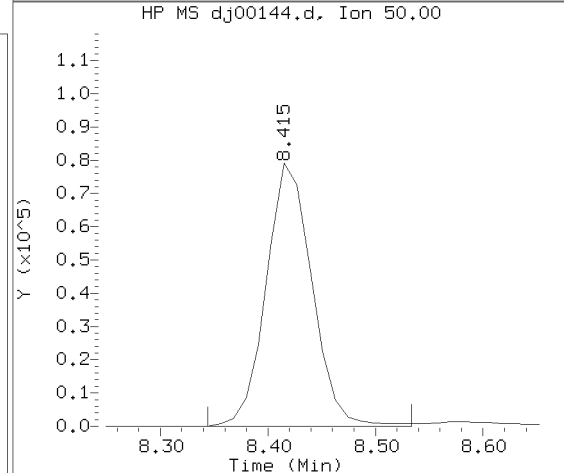
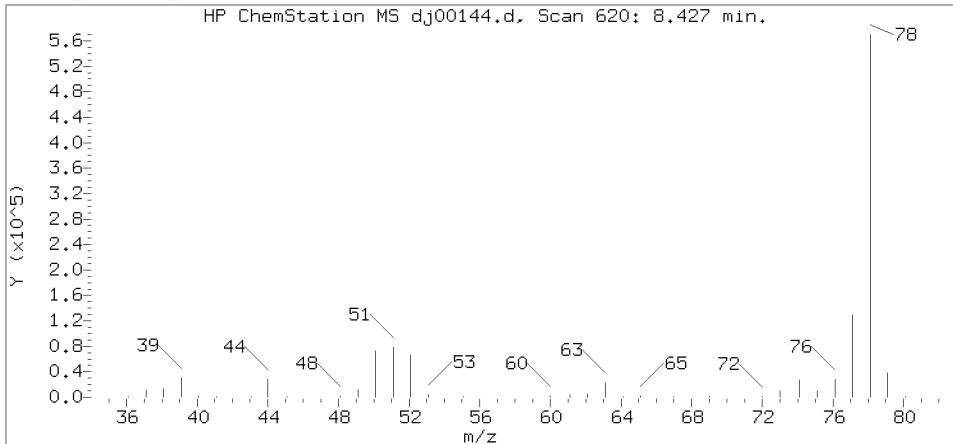
Reference Standard Spectrum for Benzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

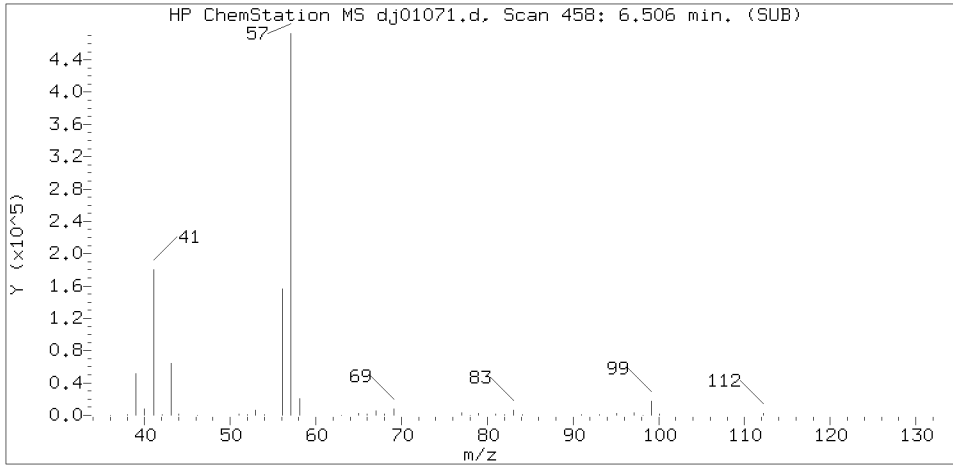
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

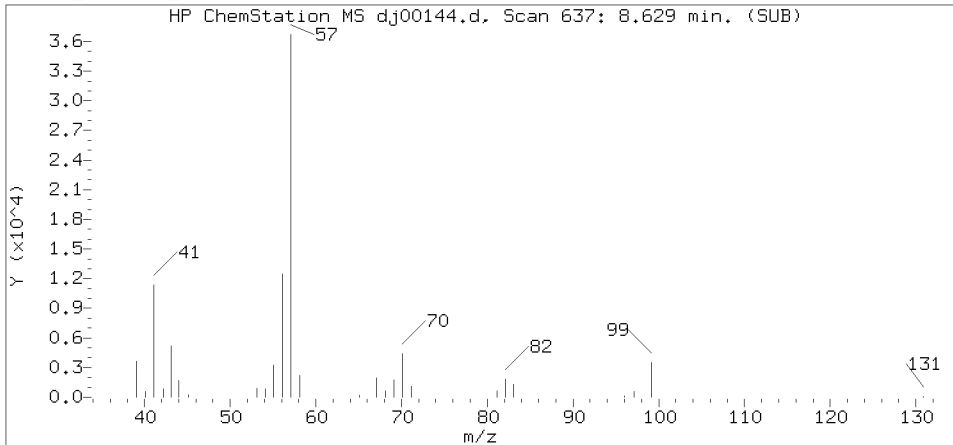
Lab Sample ID: 8065068

Compound Number : 46
 Compound Name : Benzene
 Scan Number : 620
 Retention Time (minutes): 8.427
 Relative Retention Time : -0.00140
 Quant Ion : 78.00
 Area (flag) : 1720098
 Concentration (ppb(v)) : 9.9904

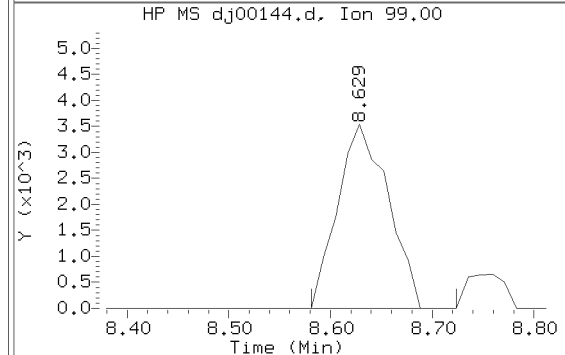
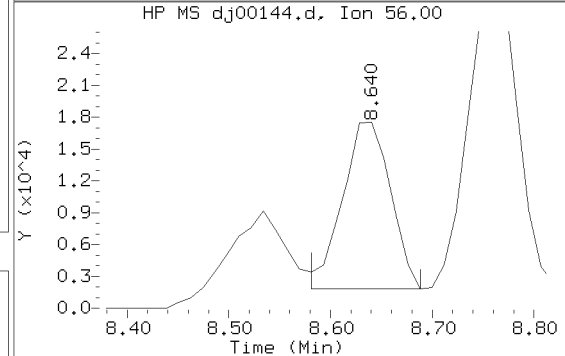
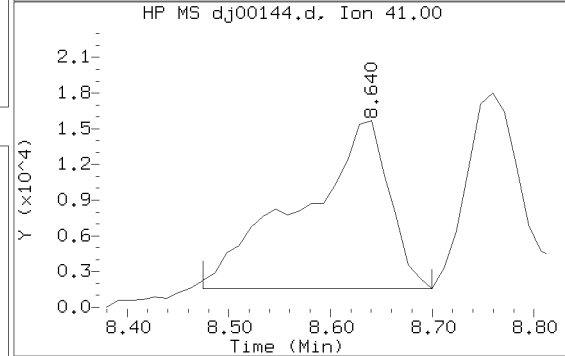
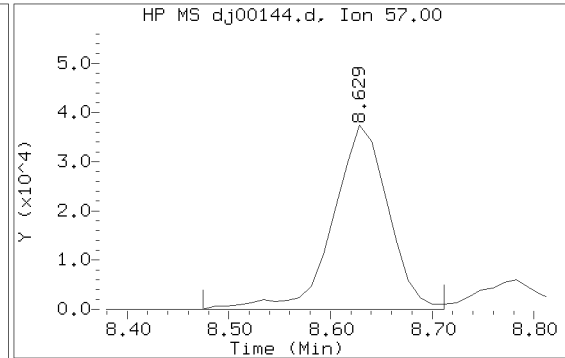
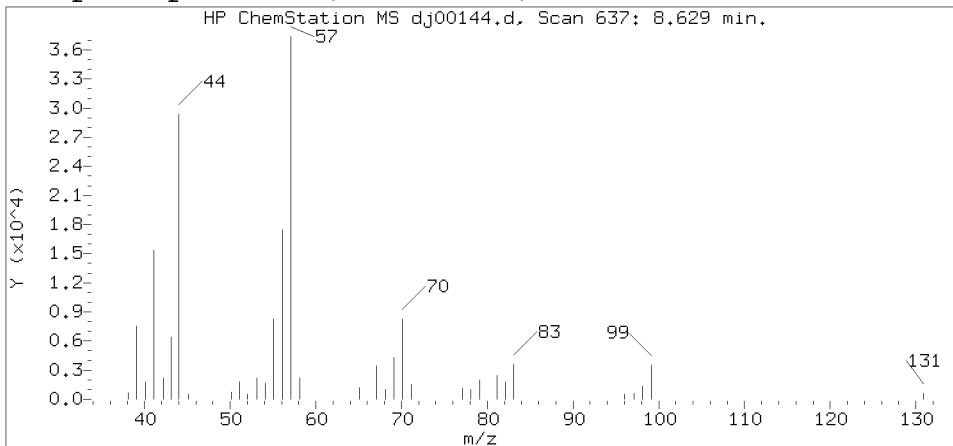
Reference Standard Spectrum for Isooctane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

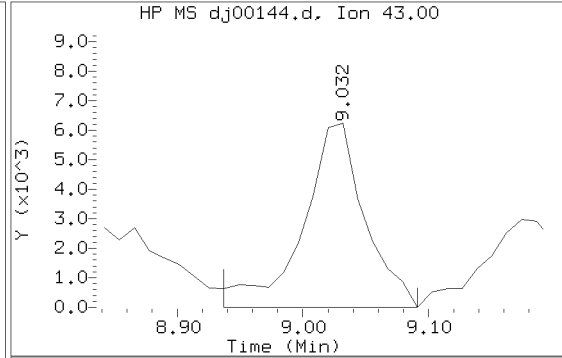
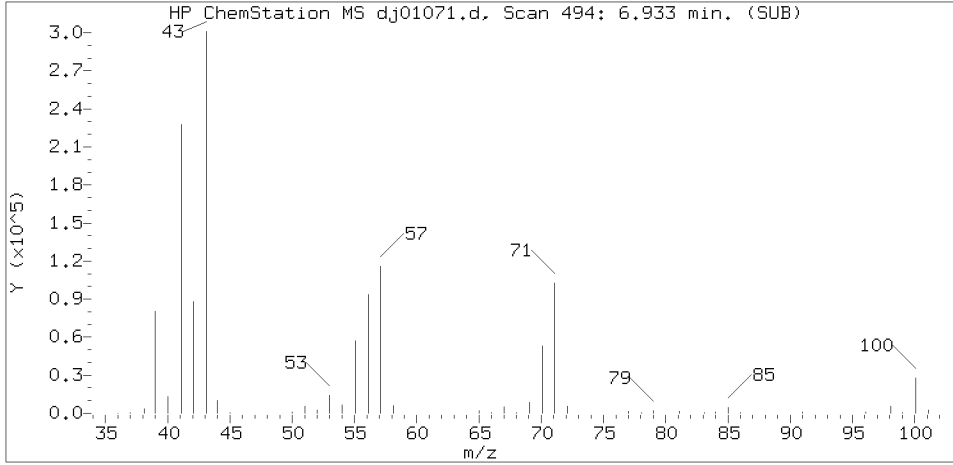
Sample Name: SVMP3

Lab Sample ID: 8065068

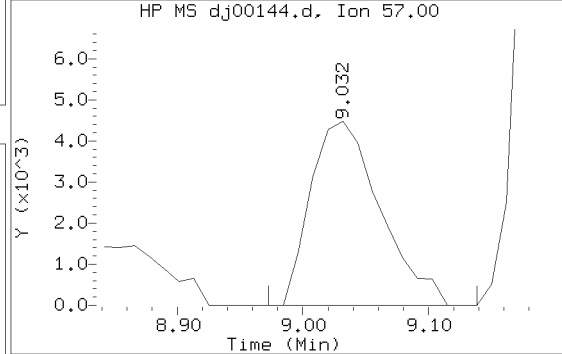
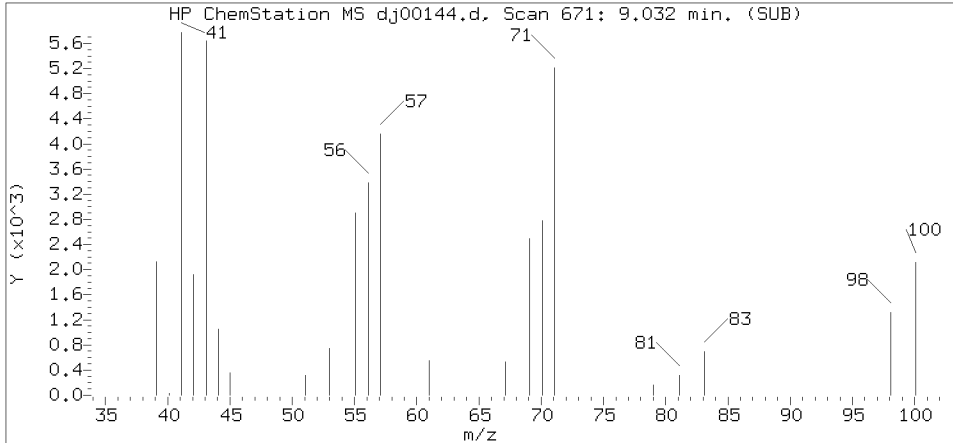
Compound Number : 48
 Compound Name : Isooctane
 Scan Number : 637
 Retention Time (minutes): 8.629
 Relative Retention Time : -0.00008
 Quant Ion : 57.00
 Area (flag) : 140788
 Concentration (ppb(v)) : 0.6166

Sublist used: 292

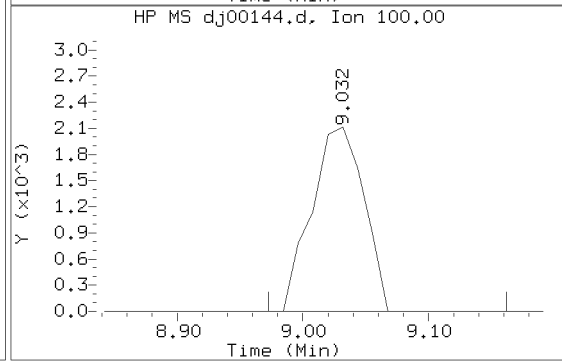
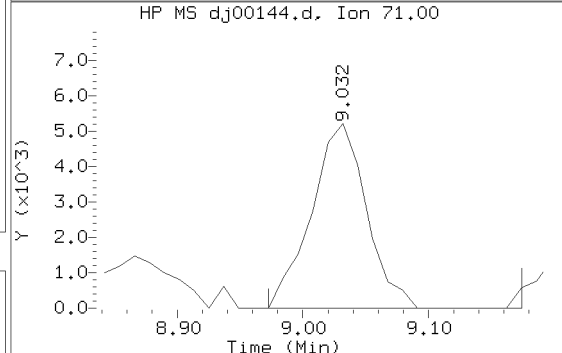
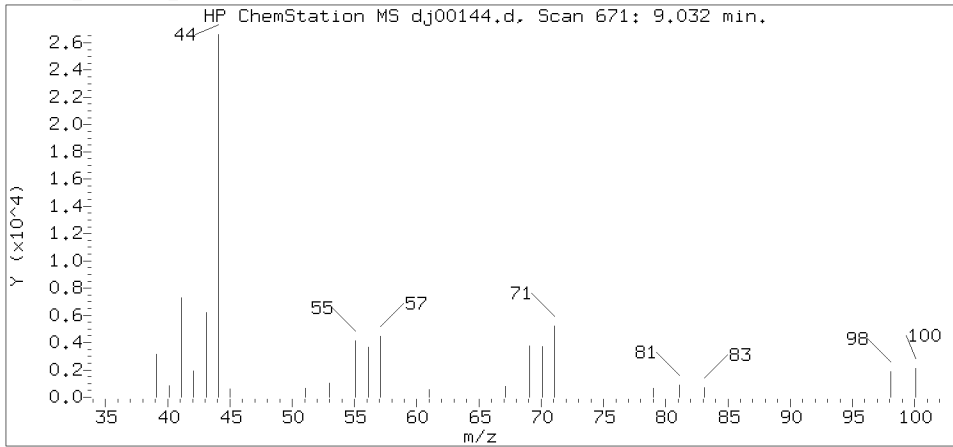
Reference Standard Spectrum for Heptane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

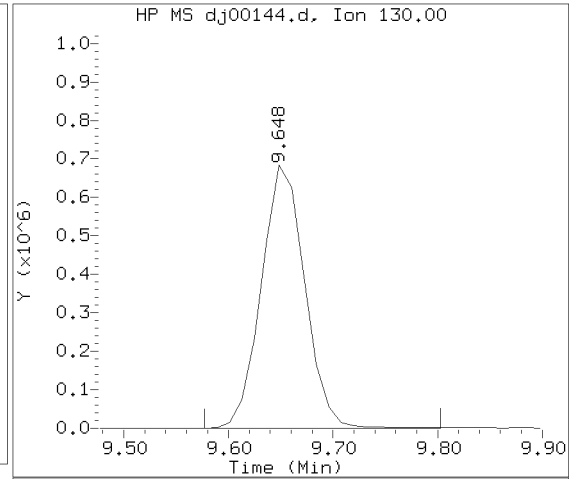
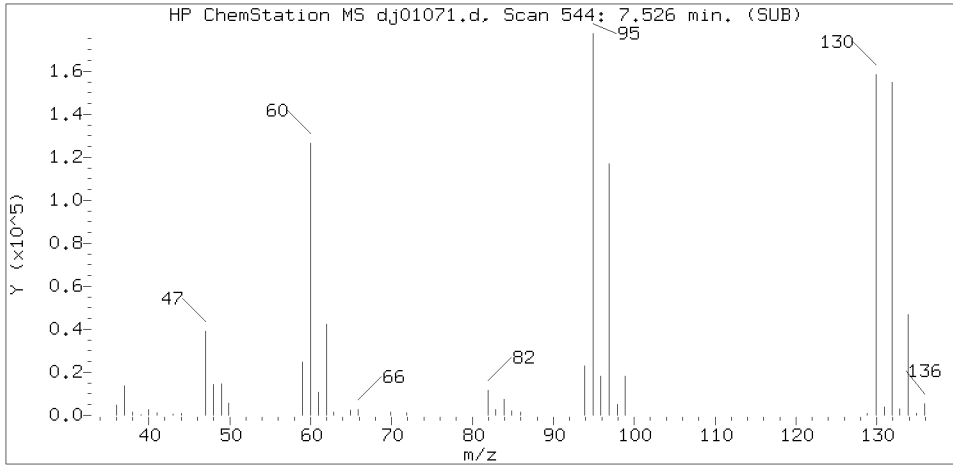
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

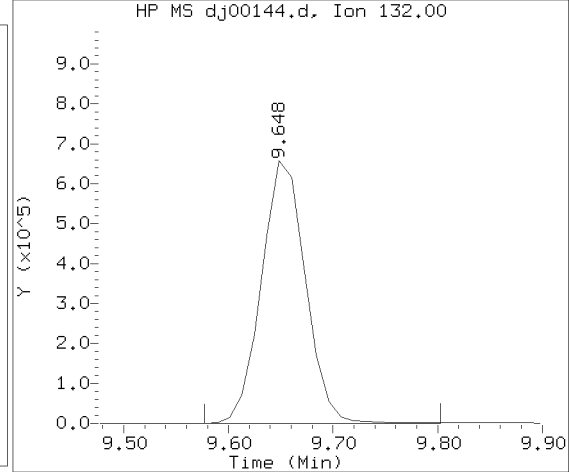
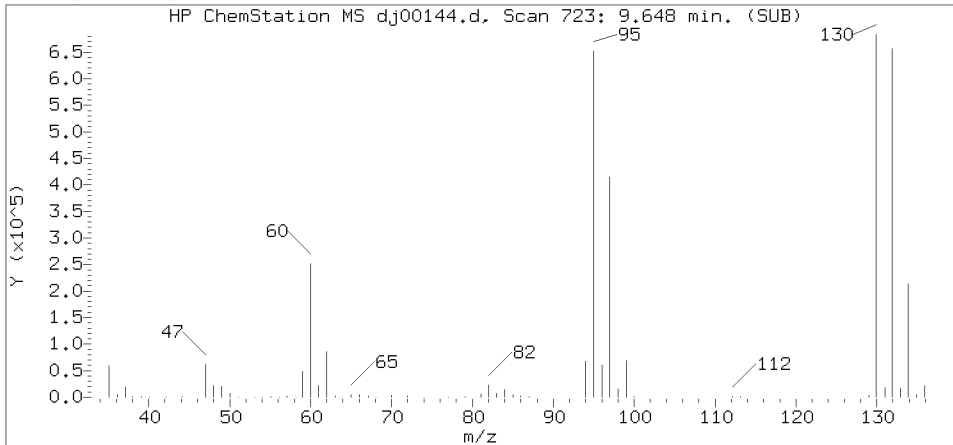
Lab Sample ID: 8065068

Compound Number : 50
 Compound Name : Heptane
 Scan Number : 671
 Retention Time (minutes): 9.032
 Relative Retention Time : -0.00131
 Quant Ion : 43.00
 Area (flag) : 21313
 Concentration (ppb(v)) : 0.3114

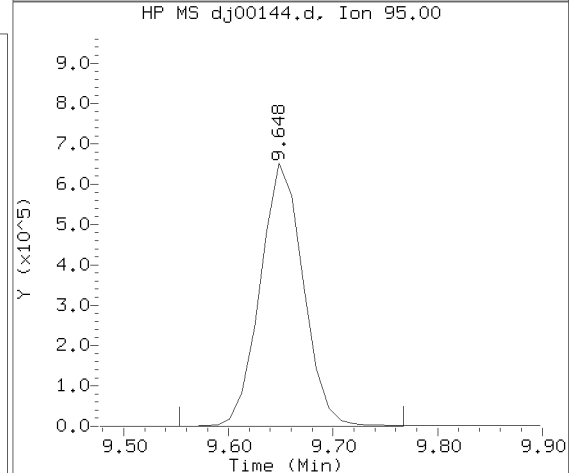
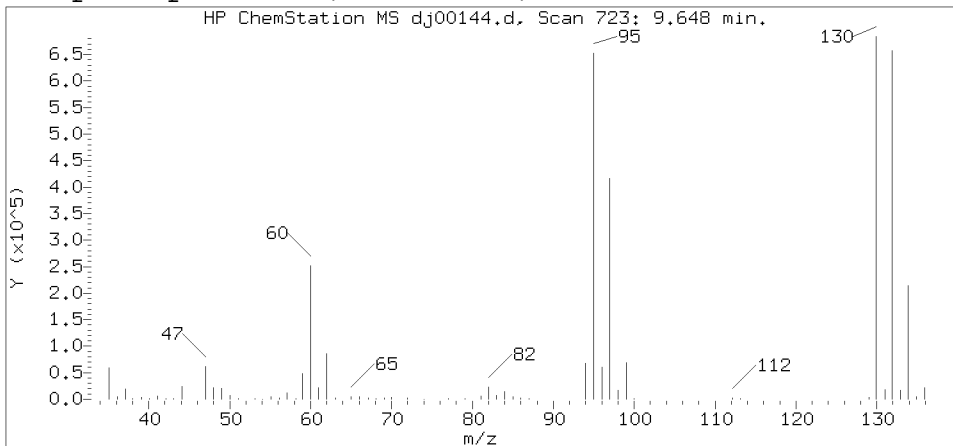
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

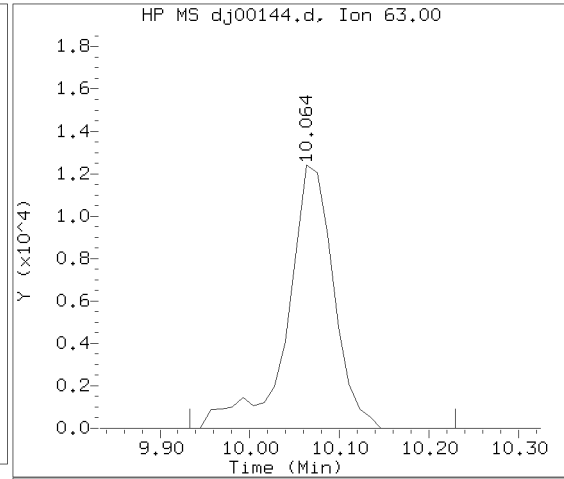
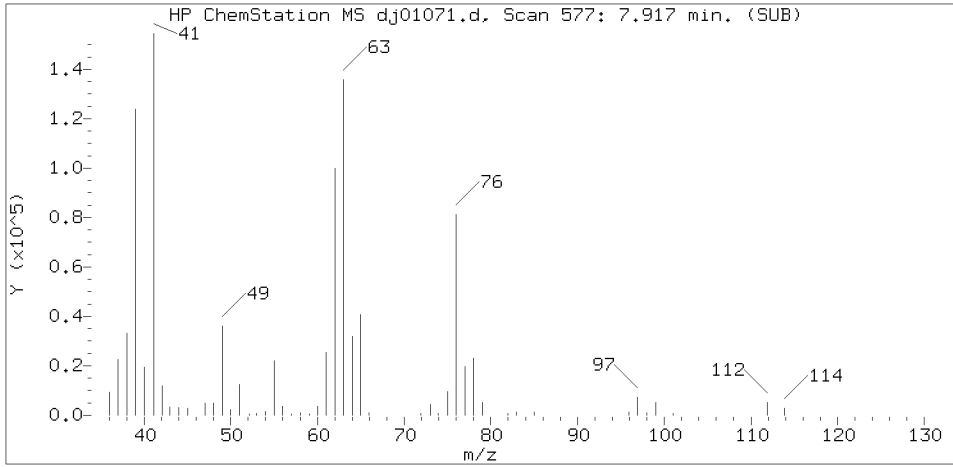
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

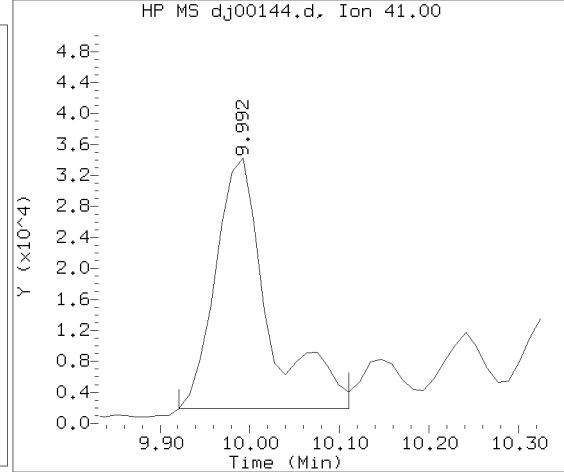
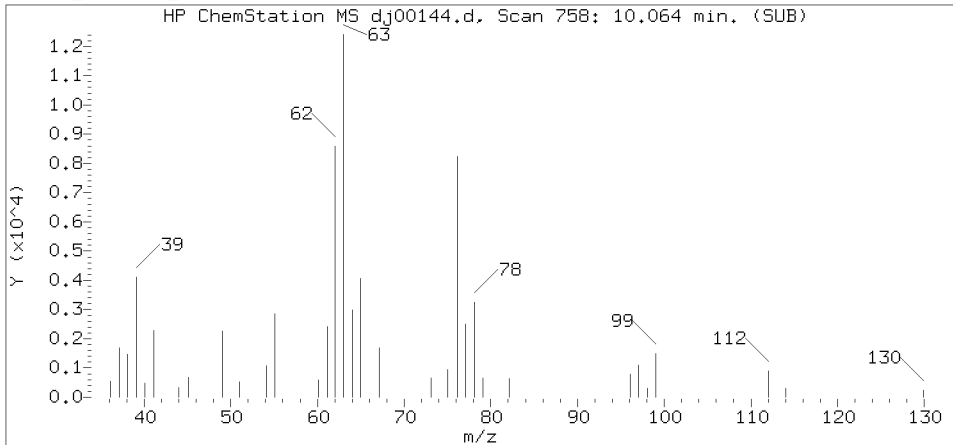
Lab Sample ID: 8065068

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 723
 Retention Time (minutes): 9.648
 Relative Retention Time : 0.00006
 Quant Ion : 130.00
 Area (flag) : 1975477
 Concentration (ppb(v)) : 21.3215

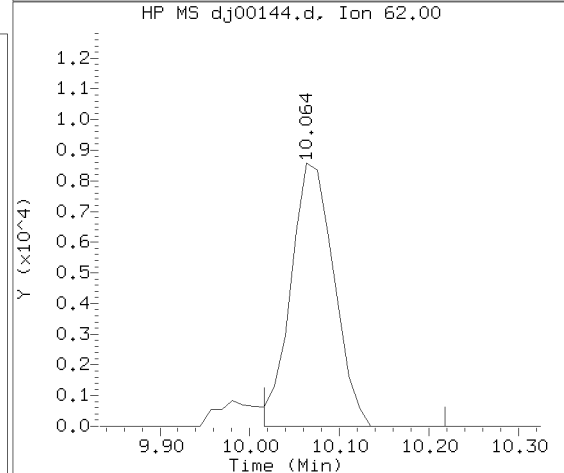
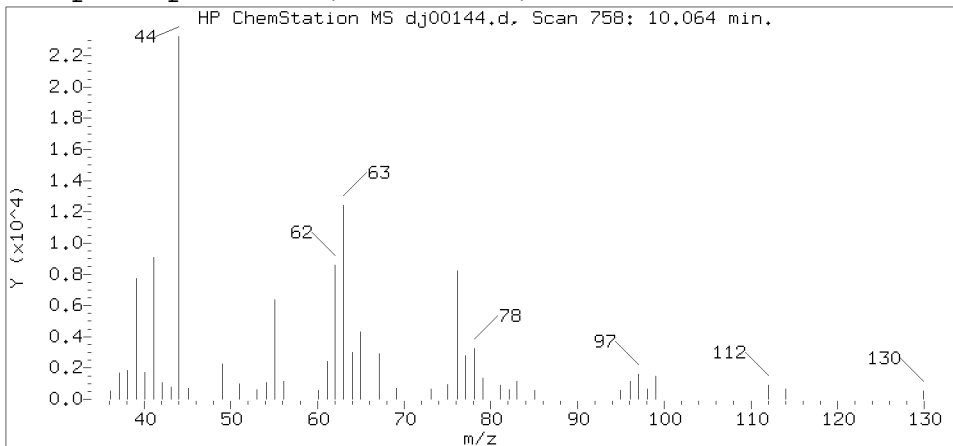
Reference Standard Spectrum for 1,2-Dichloropropane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

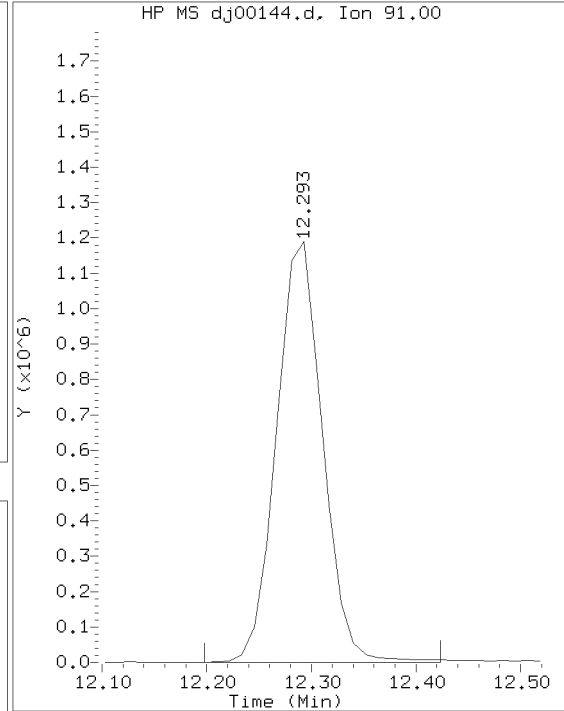
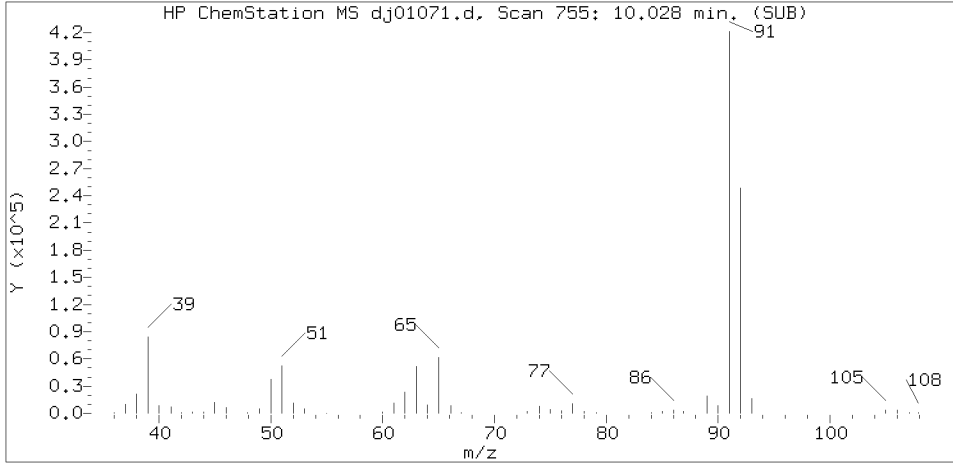
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

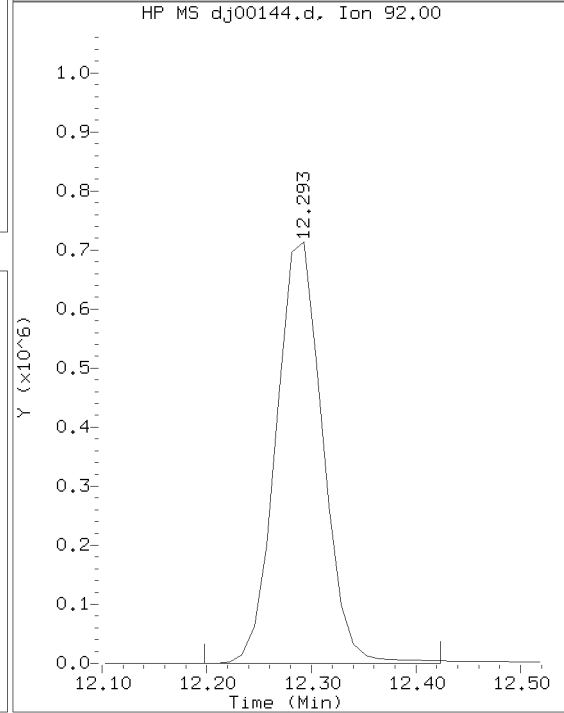
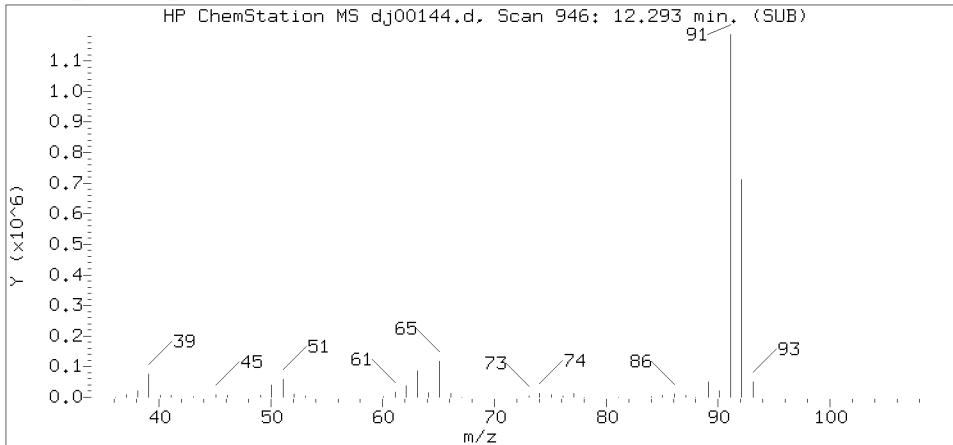
Lab Sample ID: 8065068

Compound Number : 54
 Compound Name : 1,2-Dichloropropane
 Scan Number : 758
 Retention Time (minutes): 10.064
 Relative Retention Time : 0.00141
 Quant Ion : 63.00
 Area (flag) : 44685
 Concentration (ppb(v)) : 0.8850

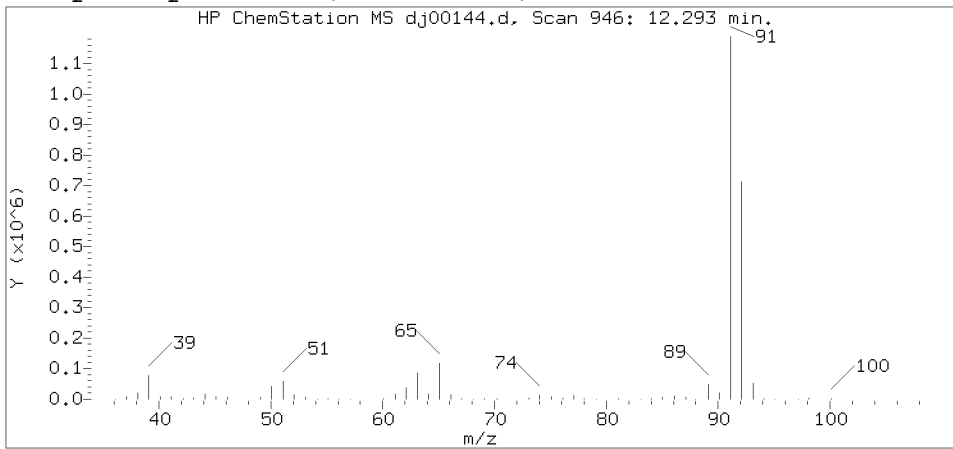
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

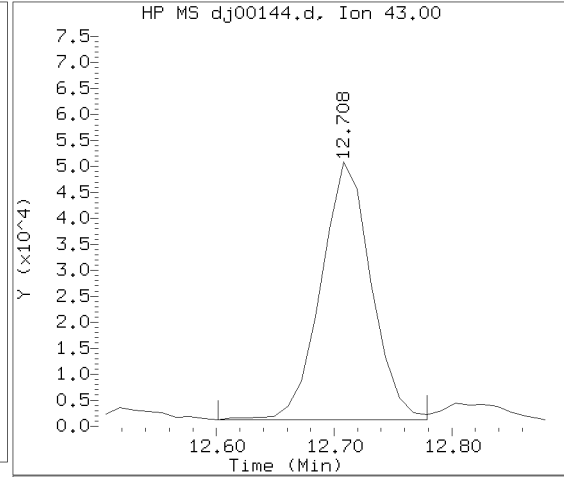
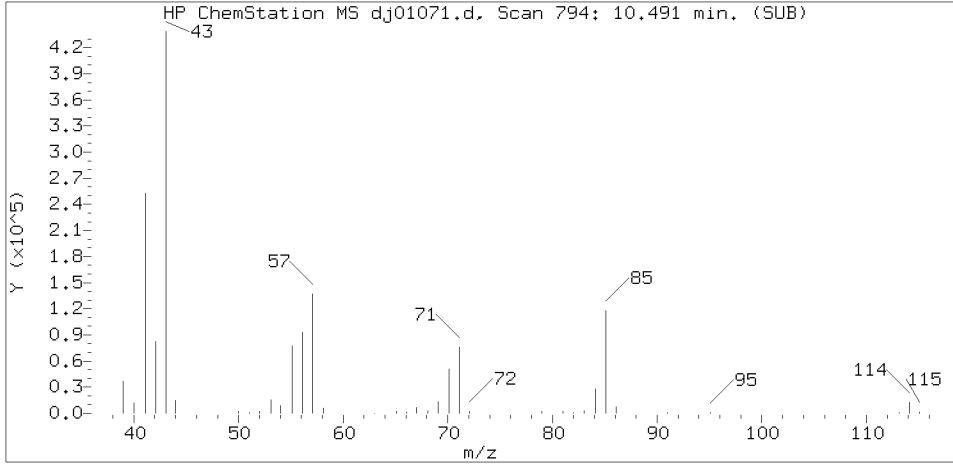
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

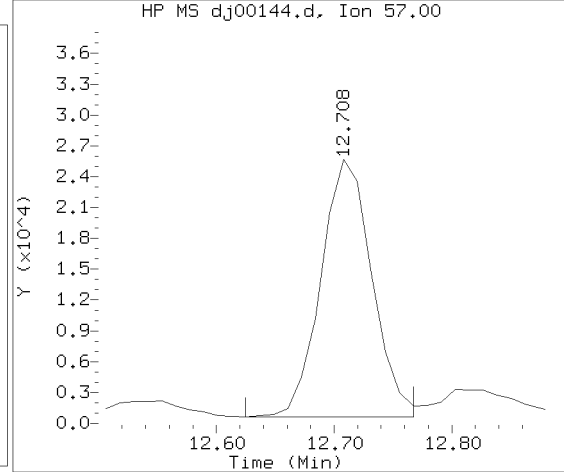
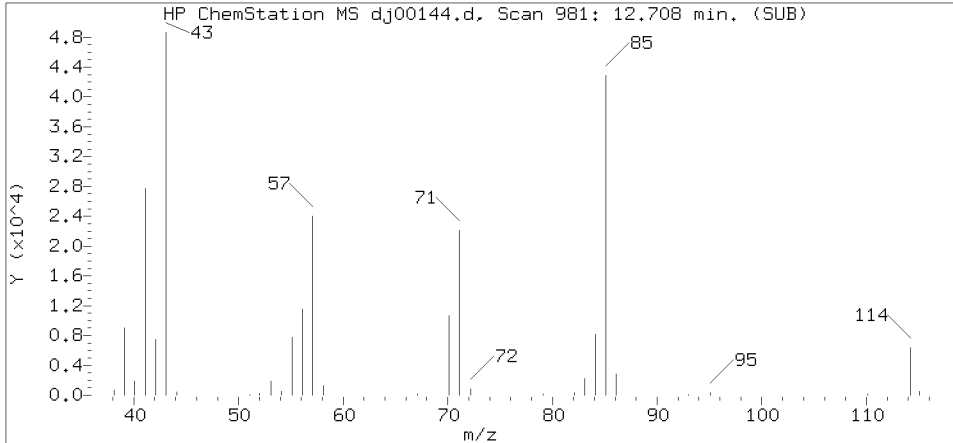
Lab Sample ID: 8065068

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 946
 Retention Time (minutes): 12.293
 Relative Retention Time : -0.00015
 Quant Ion : 91.00
 Area (flag) : 3641145
 Concentration (ppb(v)) : 14.8584

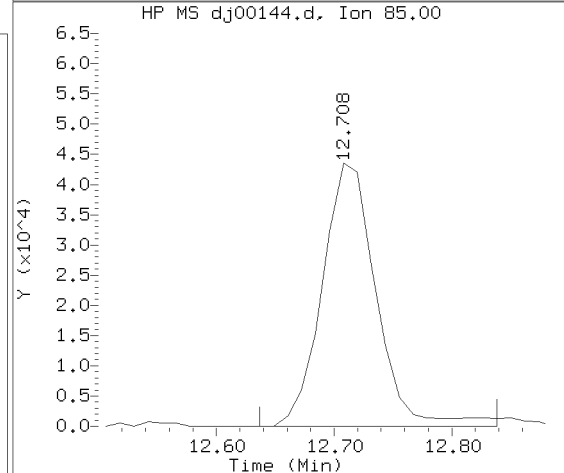
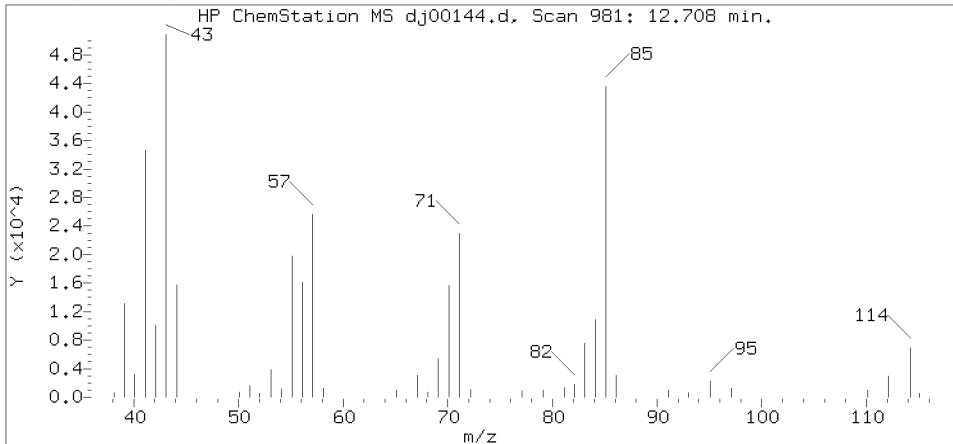
Reference Standard Spectrum for Octane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

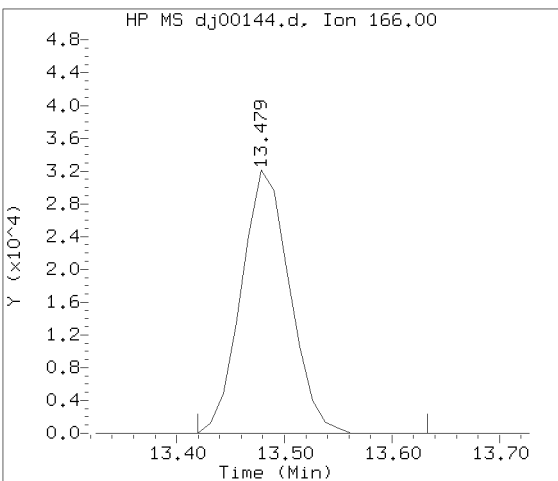
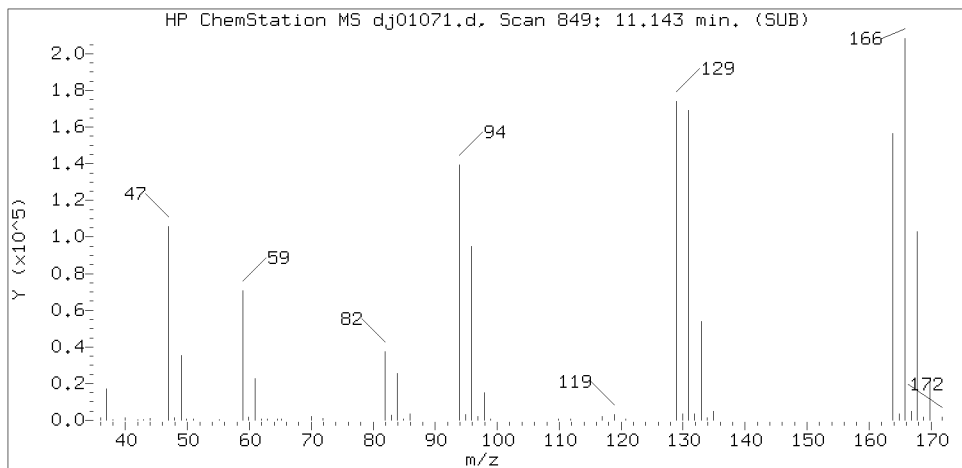
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

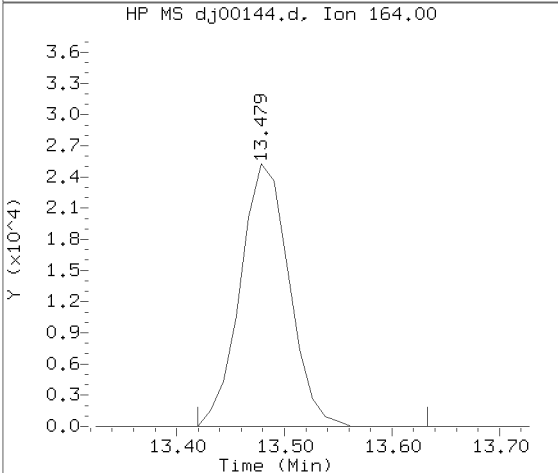
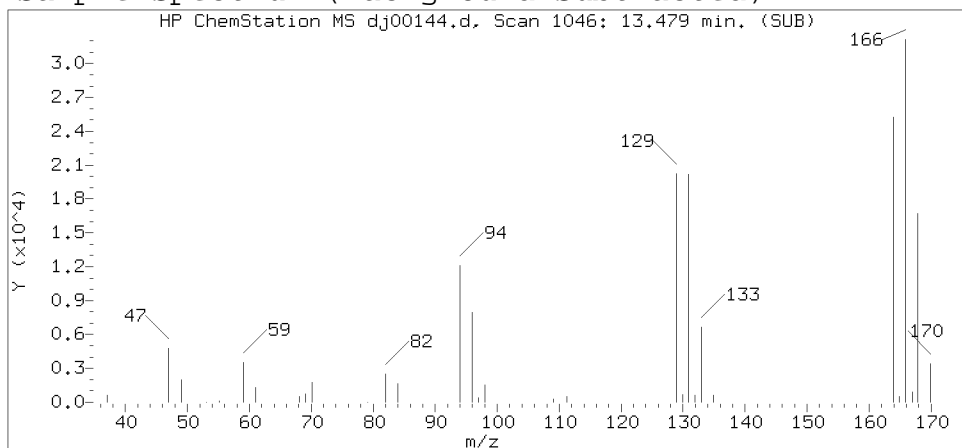
Lab Sample ID: 8065068

Compound Number : 62
 Compound Name : Octane
 Scan Number : 981
 Retention Time (minutes): 12.708
 Relative Retention Time : -0.00013
 Quant Ion : 43.00
 Area (flag) : 146787
 Concentration (ppb(v)) : 1.5007

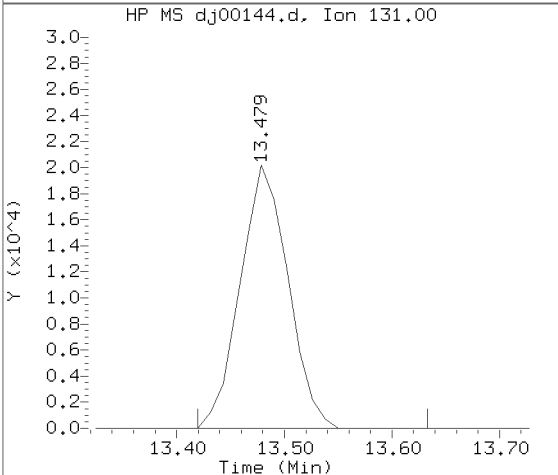
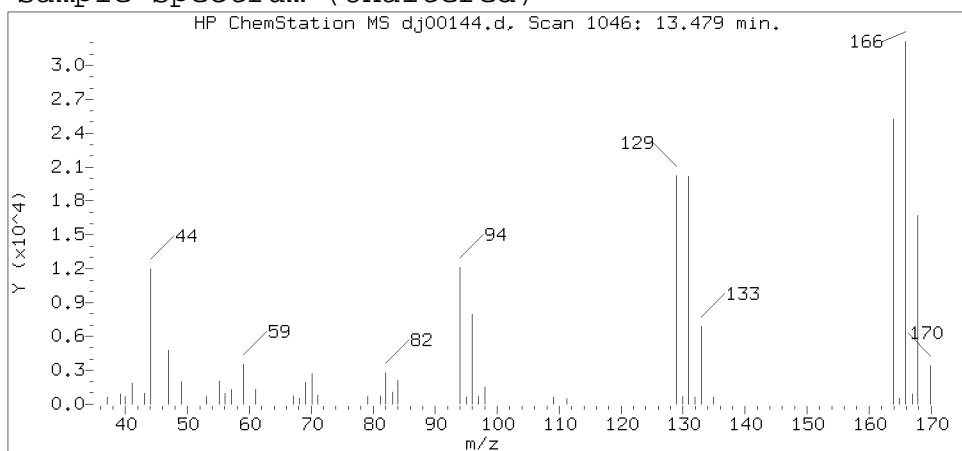
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

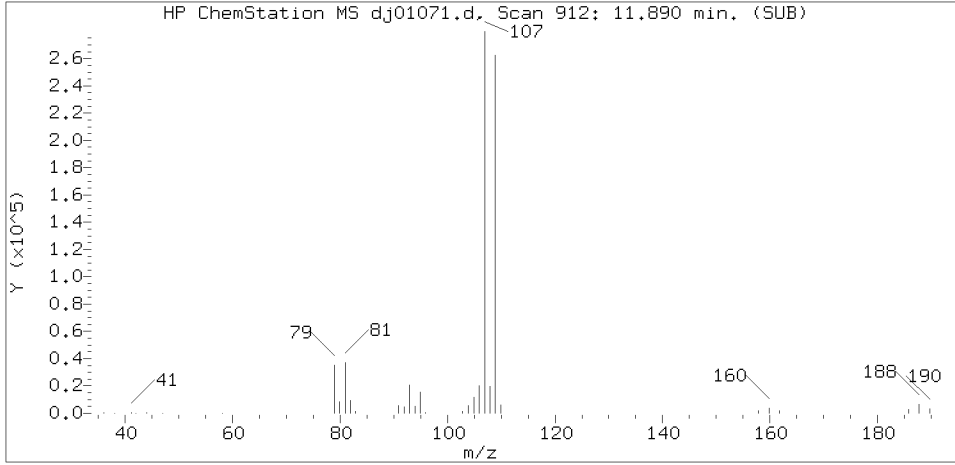
Sublist used: 292

Sample Name: SVMP3

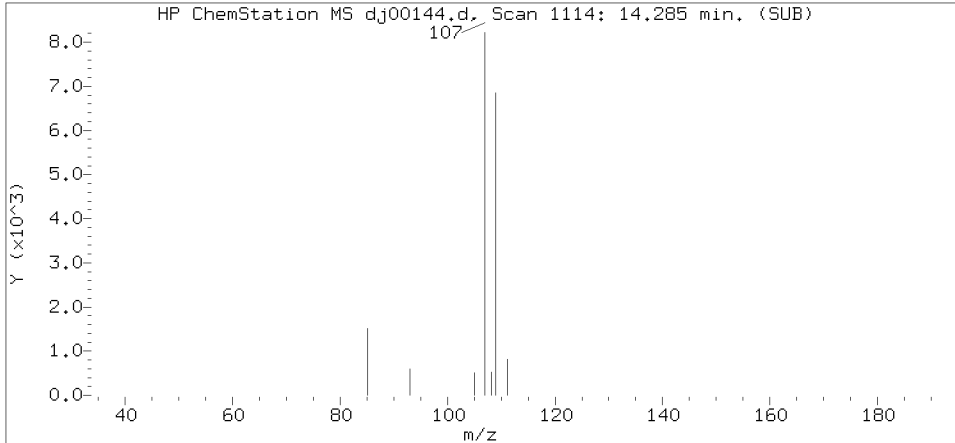
Lab Sample ID: 8065068

Compound Number : 67
 Compound Name : Tetrachloroethene
 Scan Number : 1046
 Retention Time (minutes): 13.479
 Relative Retention Time : 0.00067
 Quant Ion : 166.00
 Area (flag) : 100758
 Concentration (ppb(v)) : 0.5833

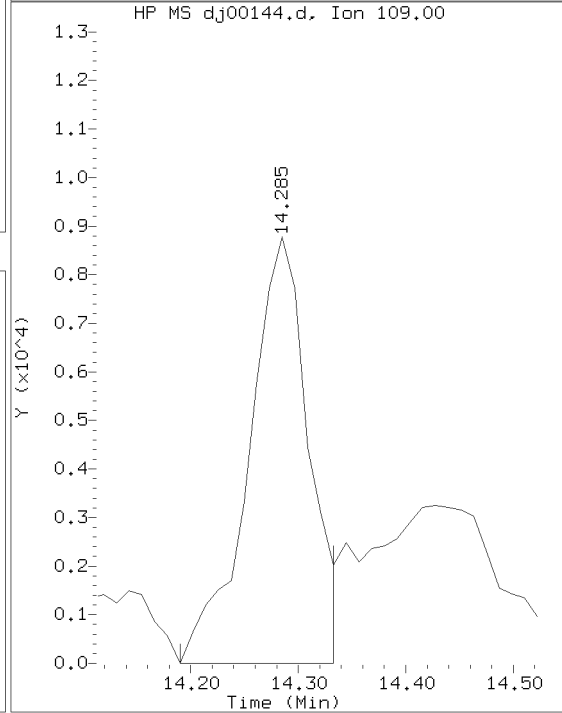
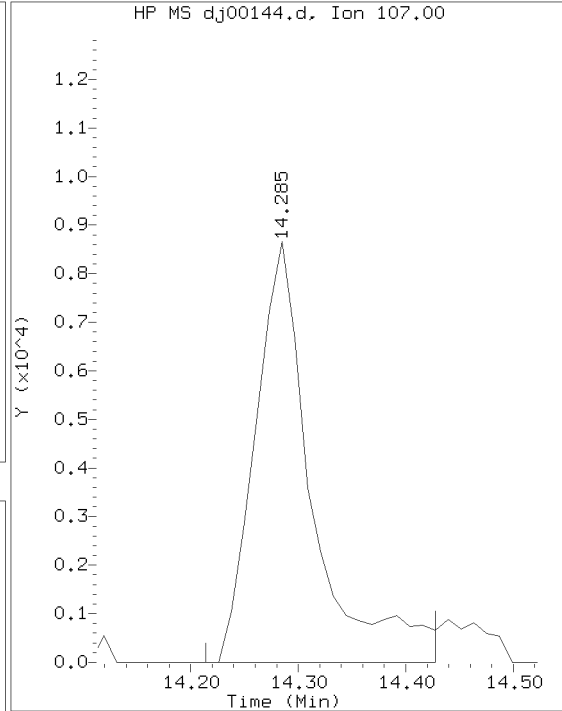
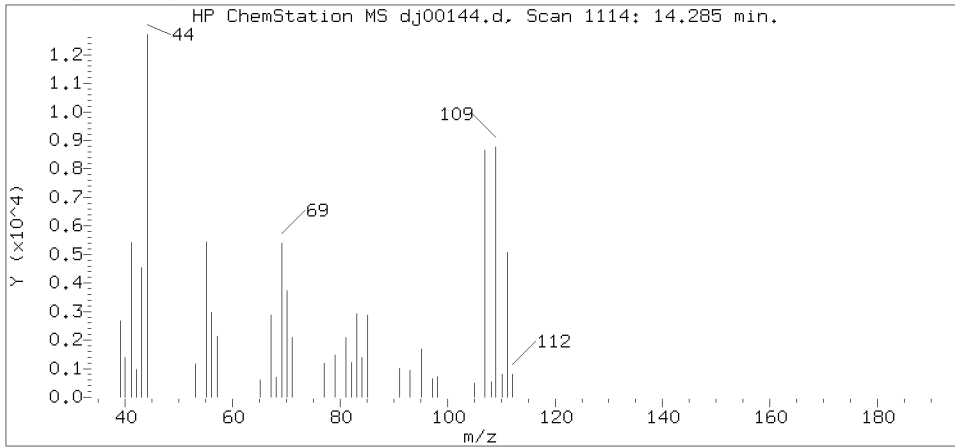
Reference Standard Spectrum for 1,2-Dibromoethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

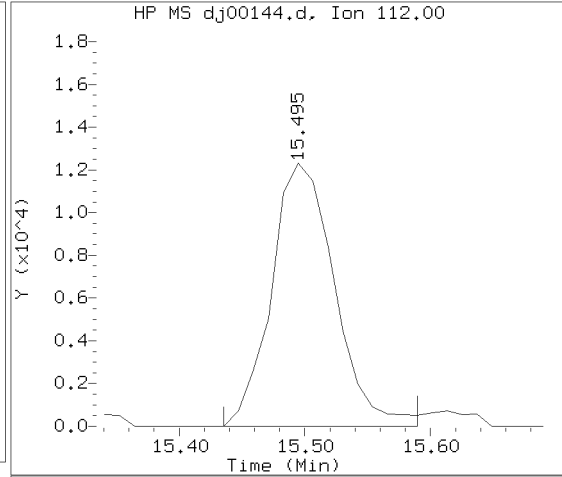
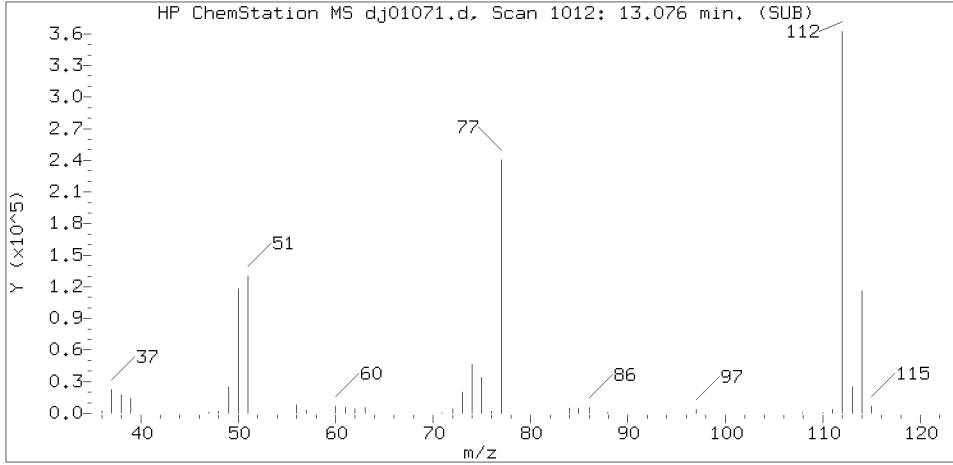
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

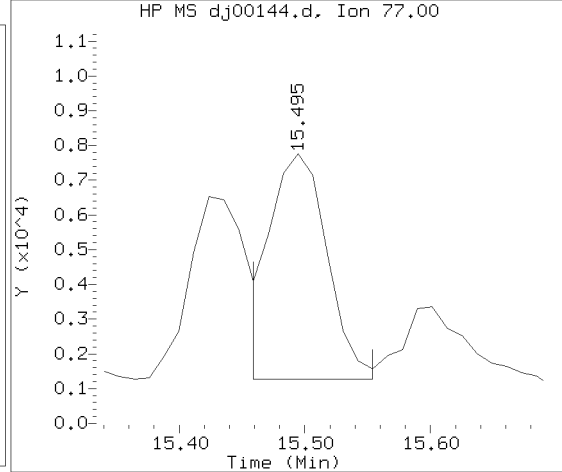
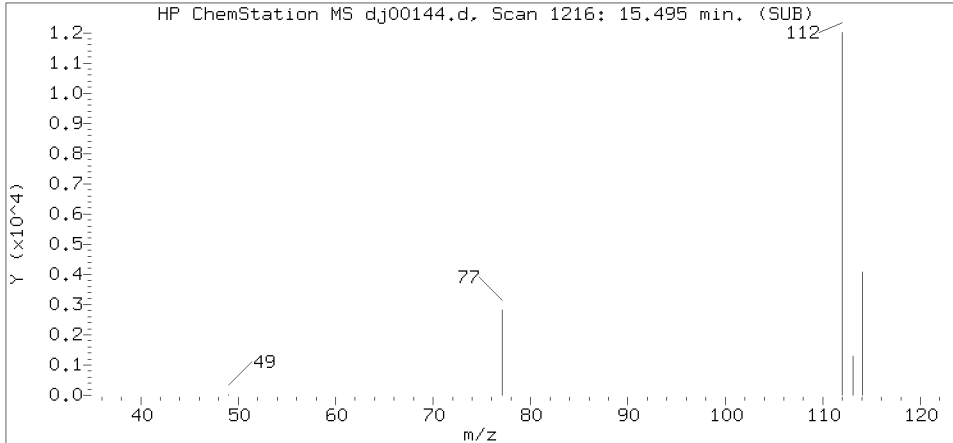
Lab Sample ID: 8065068

Compound Number : 70
 Compound Name : 1,2-Dibromoethane
 Scan Number : 1114
 Retention Time (minutes): 14.285
 Relative Retention Time : -0.00006
 Quant Ion : 107.00
 Area (flag) : 31942
 Concentration (ppb(v)) : 0.2387

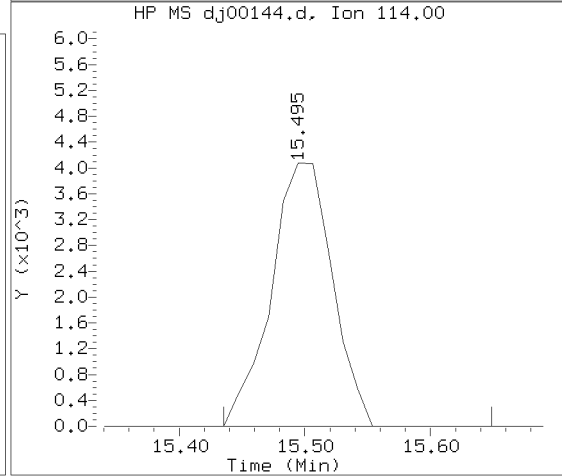
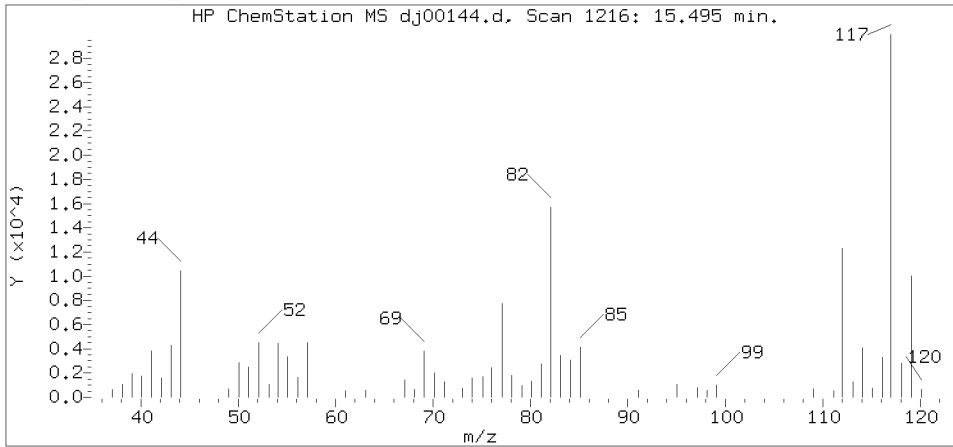
Reference Standard Spectrum for Chlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

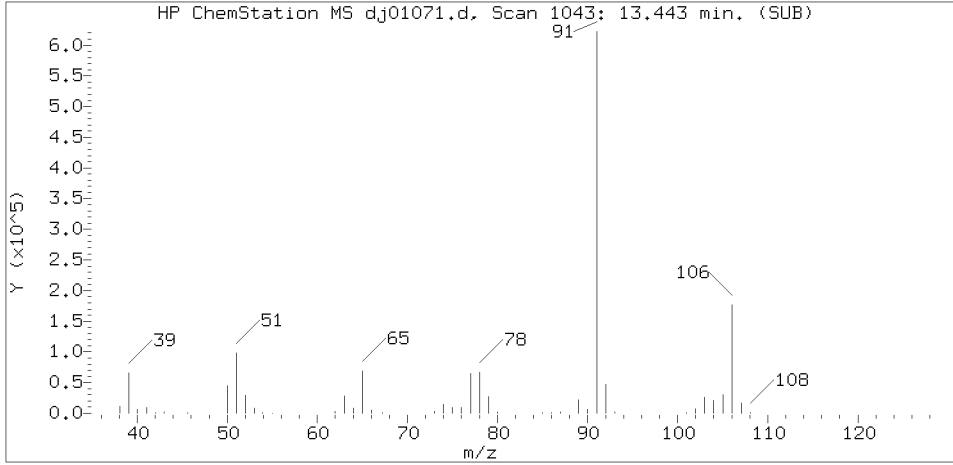
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

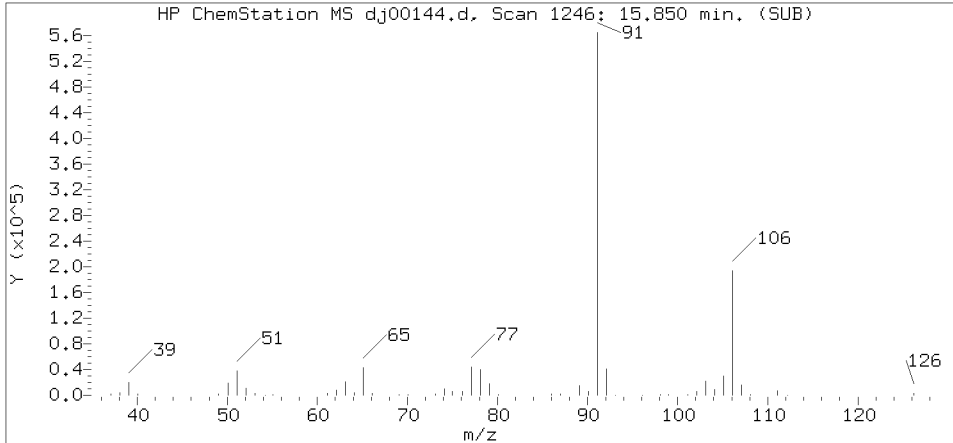
Lab Sample ID: 8065068

Compound Number : 72
 Compound Name : Chlorobenzene
 Scan Number : 1216
 Retention Time (minutes): 15.495
 Relative Retention Time : 0.00077
 Quant Ion : 112.00
 Area (flag) : 42795
 Concentration (ppb(v)) : 0.2095

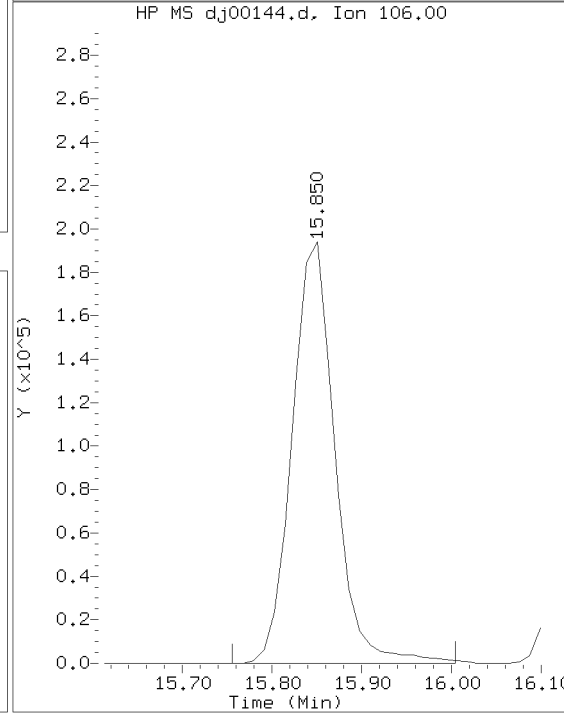
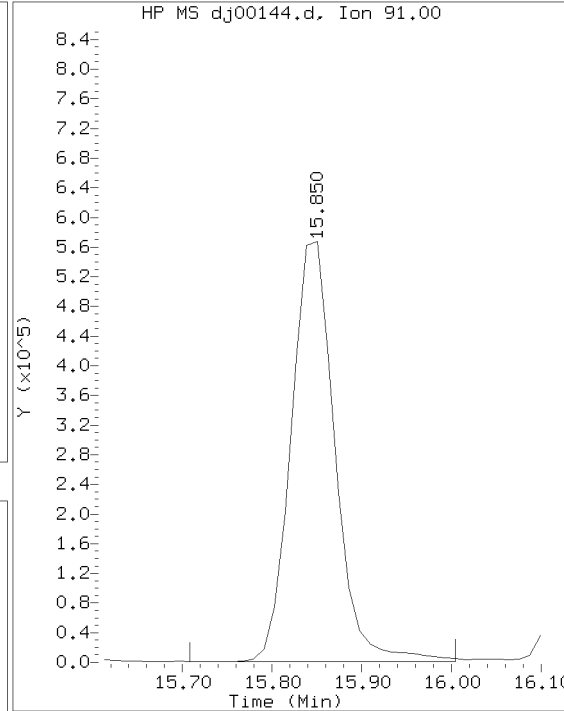
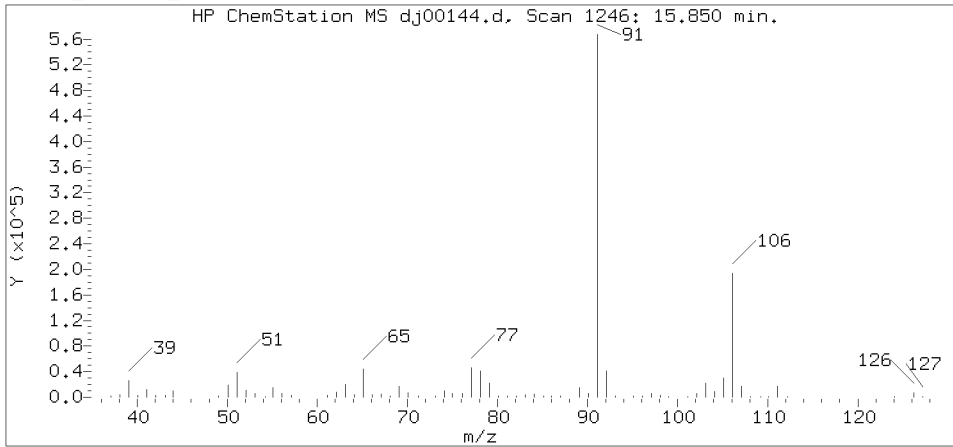
Reference Standard Spectrum for Ethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

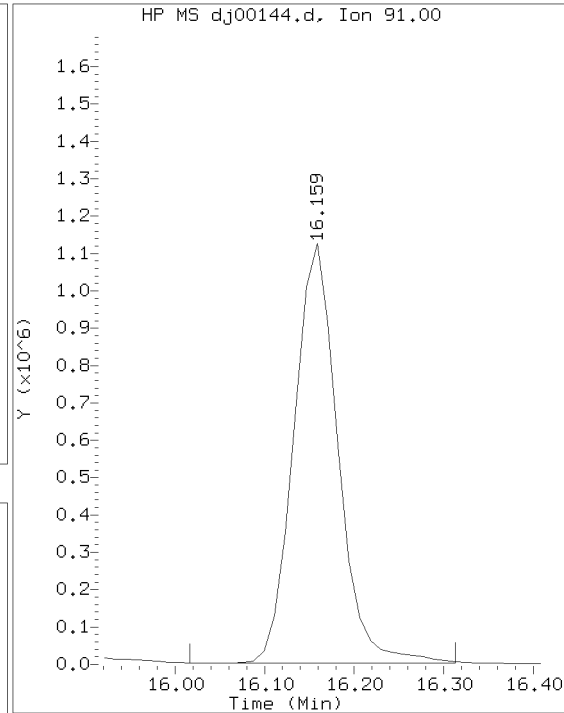
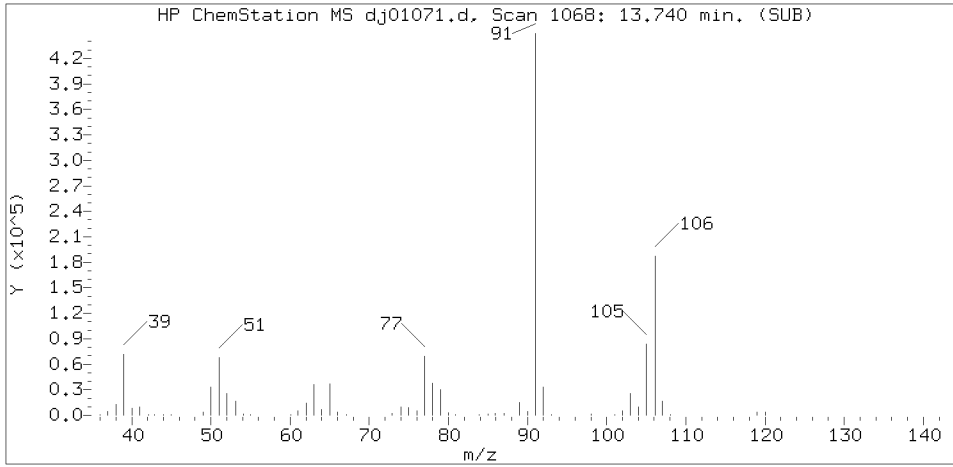
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

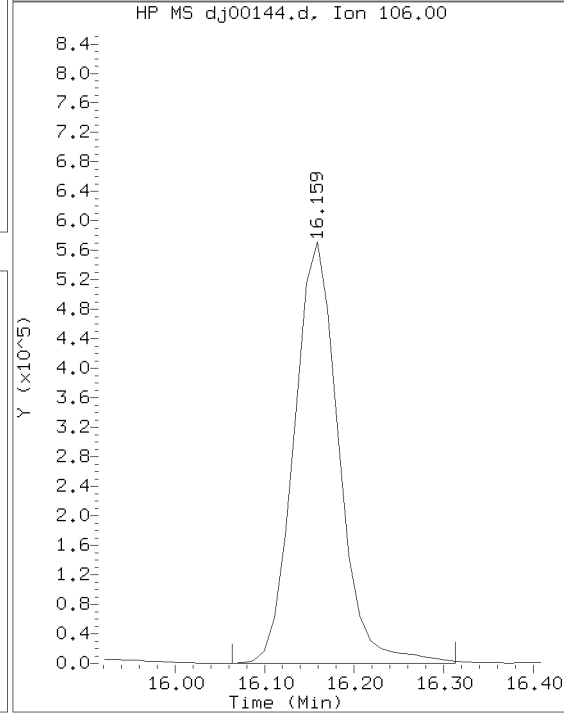
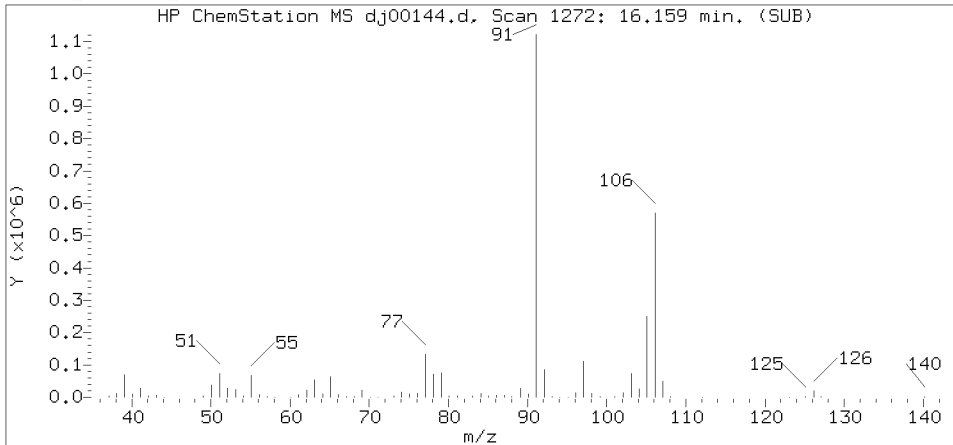
Lab Sample ID: 8065068

Compound Number : 74
 Compound Name : Ethylbenzene
 Scan Number : 1246
 Retention Time (minutes): 15.850
 Relative Retention Time : 0.00002
 Quant Ion : 91.00
 Area (flag) : 1932695
 Concentration (ppb(v)) : 5.9502

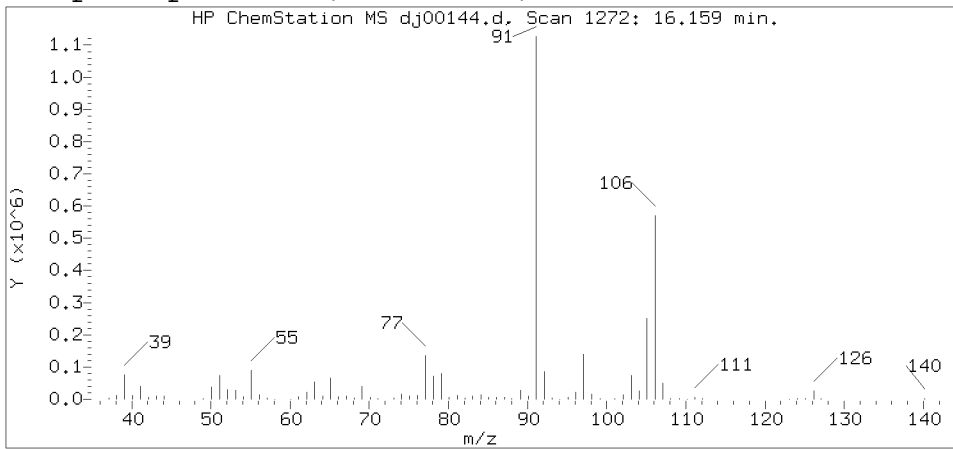
Reference Standard Spectrum for m/p-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

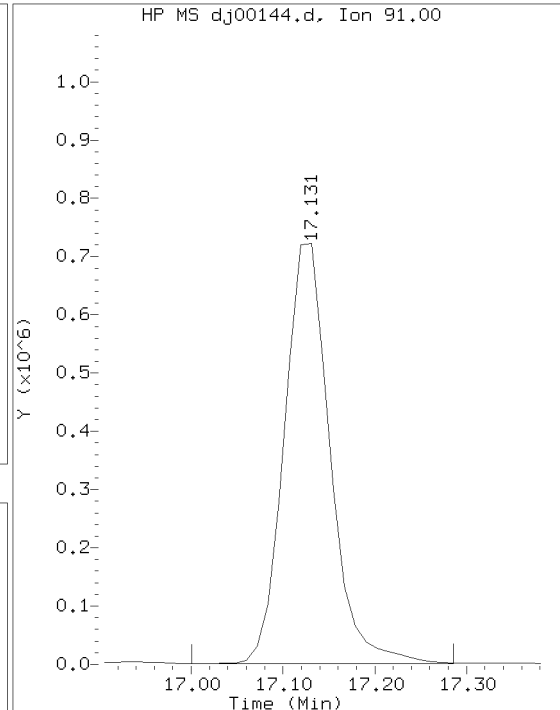
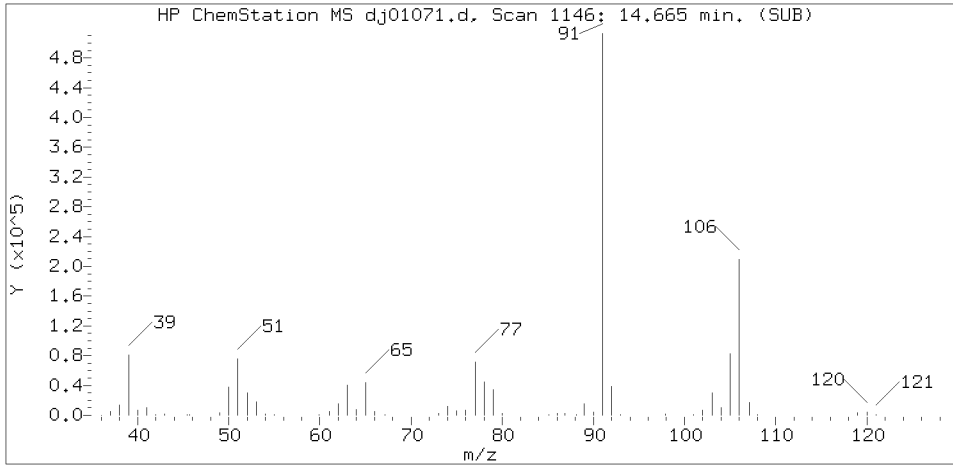
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

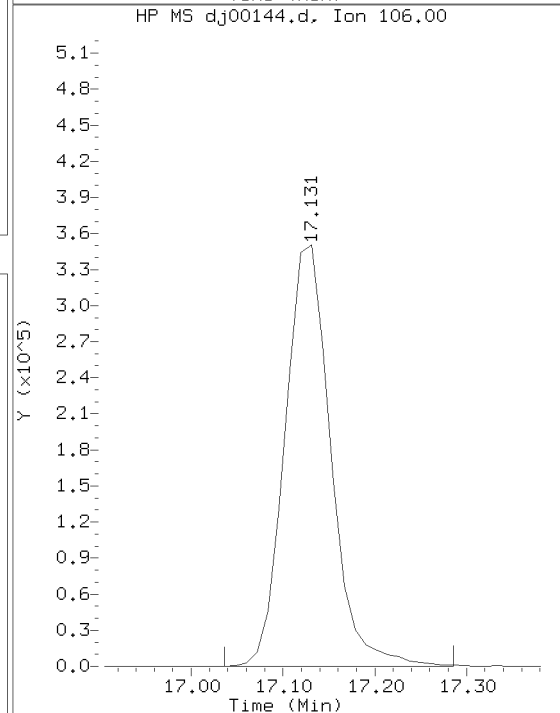
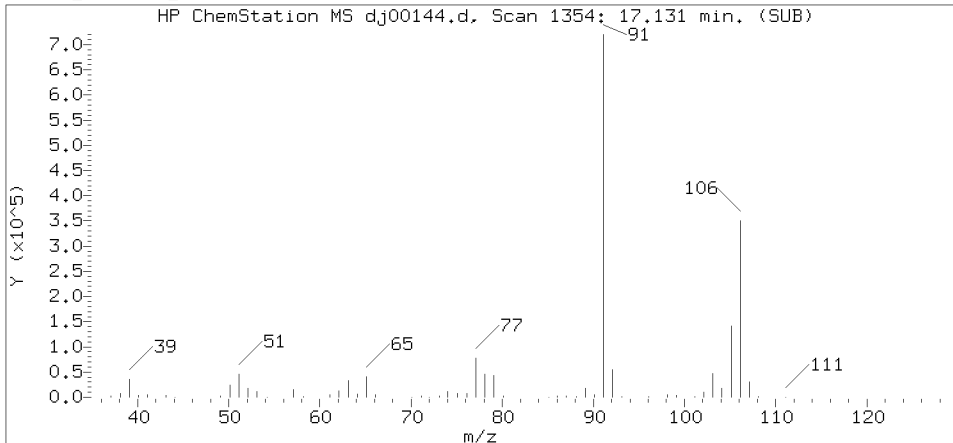
Lab Sample ID: 8065068

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 1272
 Retention Time (minutes): 16.159
 Relative Retention Time : 0.00004
 Quant Ion : 91.00
 Area (flag) : 3856347
 Concentration (ppb(v)) : 13.4106

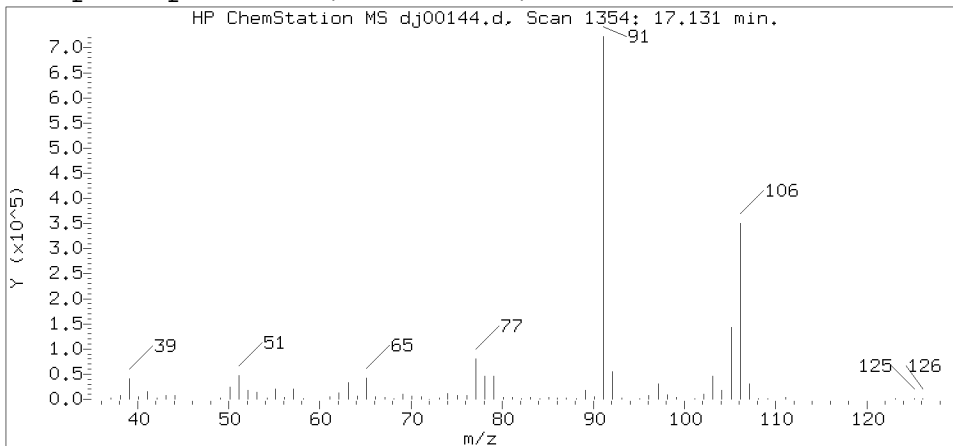
Reference Standard Spectrum for o-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

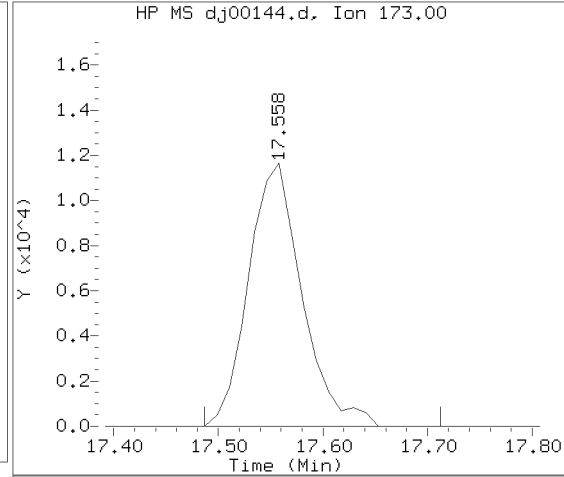
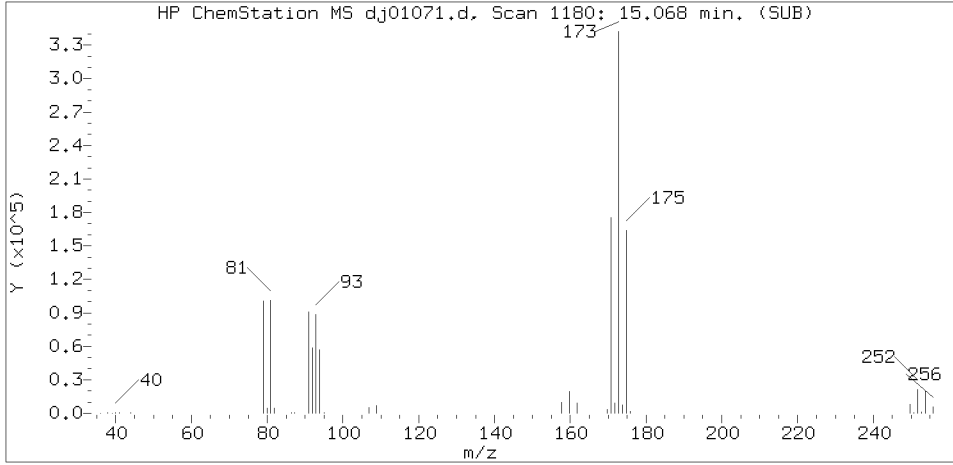
Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

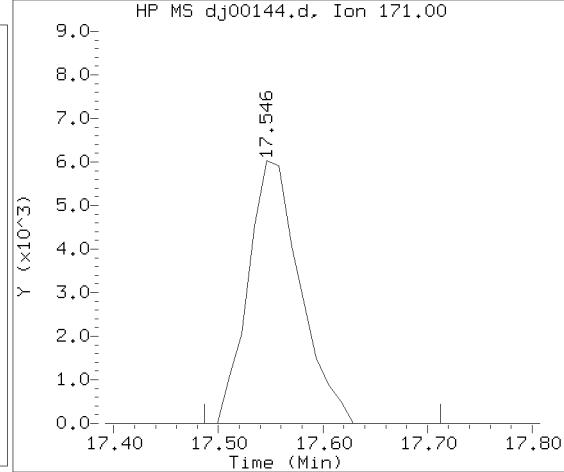
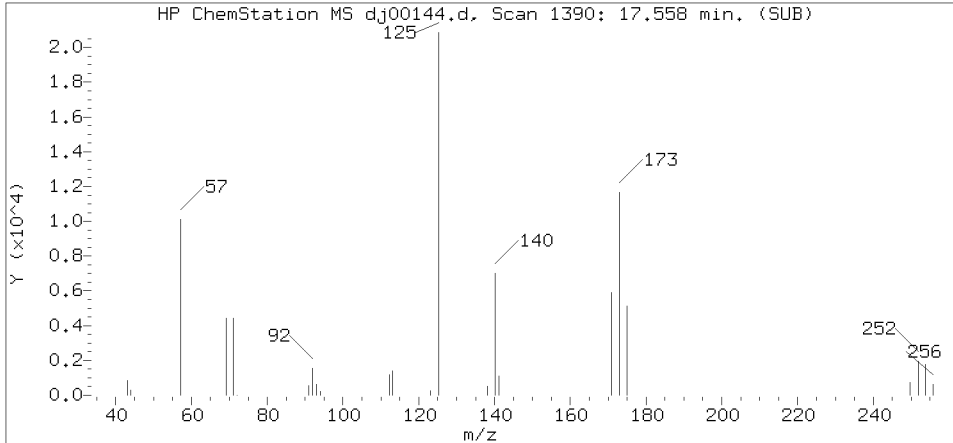
Lab Sample ID: 8065068

Compound Number : 76
Compound Name : o-Xylene
Scan Number : 1354
Retention Time (minutes): 17.131
Relative Retention Time : 0.00008
Quant Ion : 91.00
Area (flag) : 2507891
Concentration (ppb(v)) : 9.2074

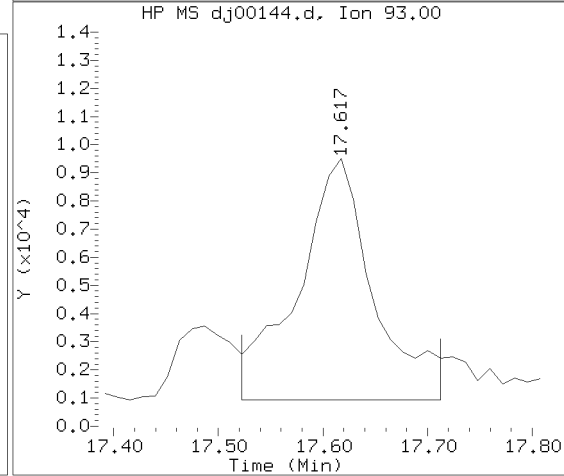
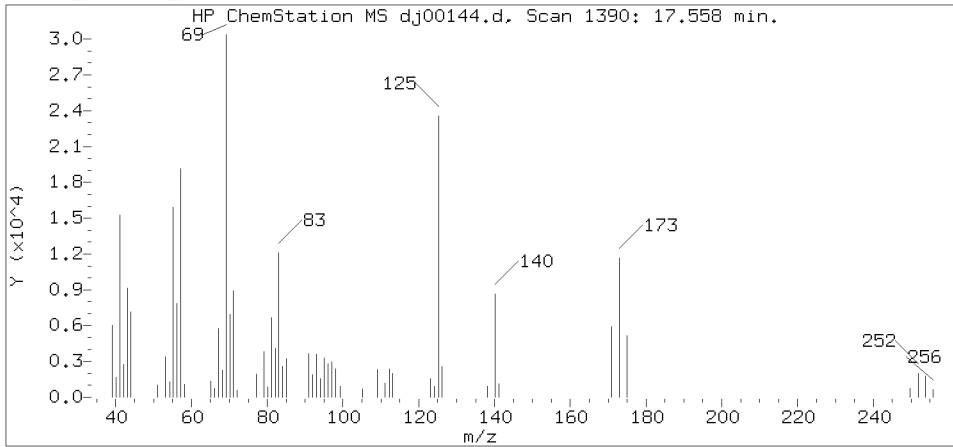
Reference Standard Spectrum for Bromoform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

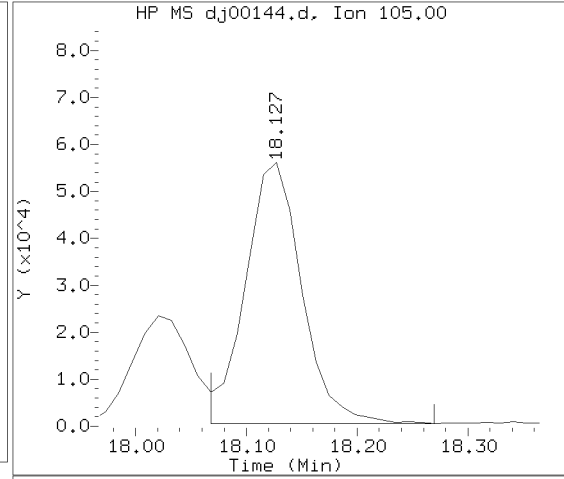
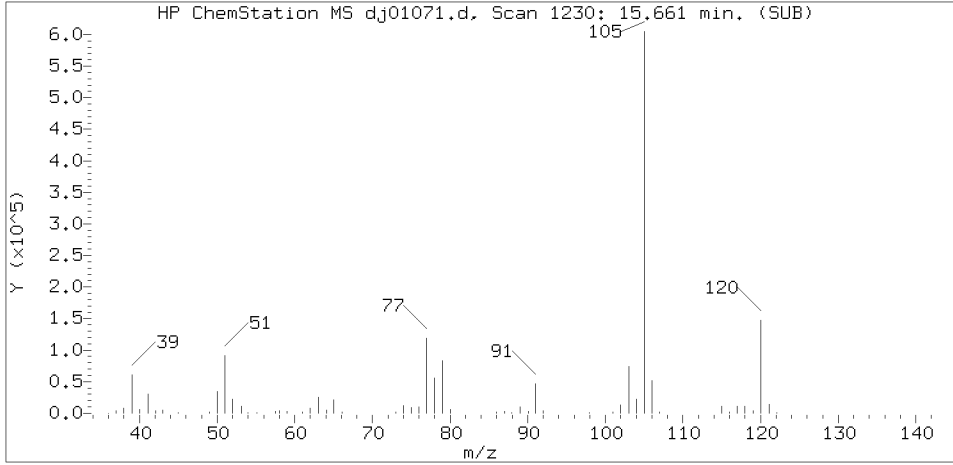
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

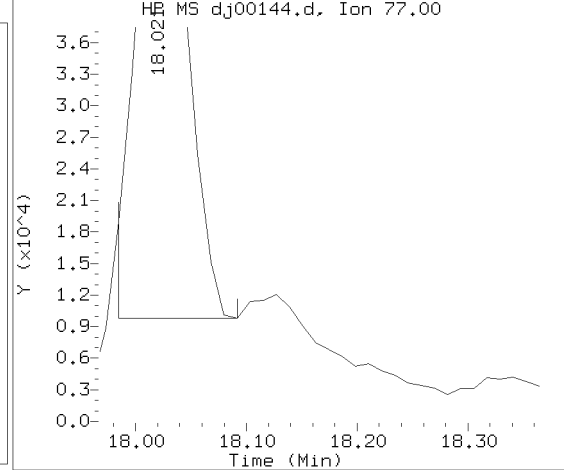
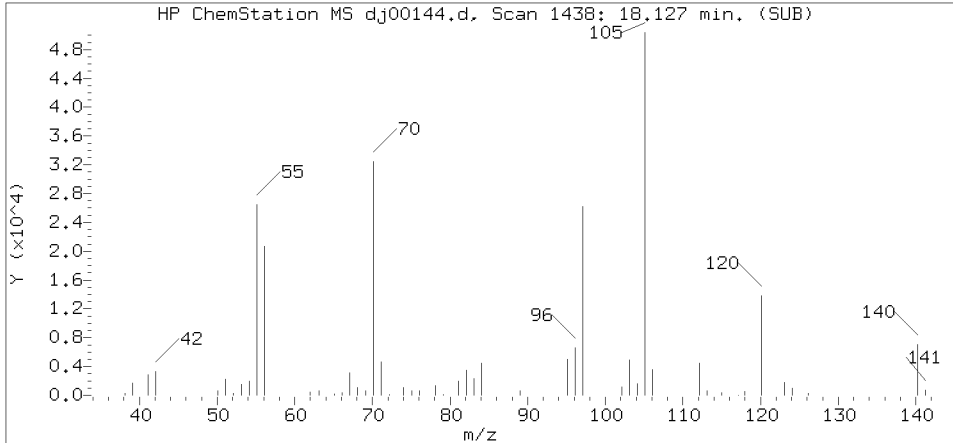
Lab Sample ID: 8065068

Compound Number : 79
 Compound Name : Bromoform
 Scan Number : 1390
 Retention Time (minutes): 17.558
 Relative Retention Time : 0.00010
 Quant Ion : 173.00
 Area (flag) : 41340
 Concentration (ppb(v)) : 0.2308

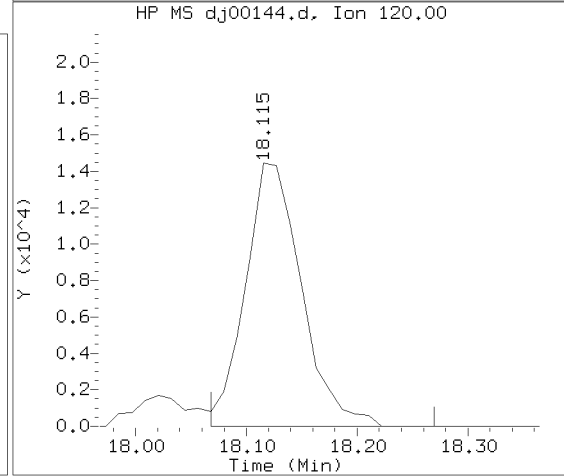
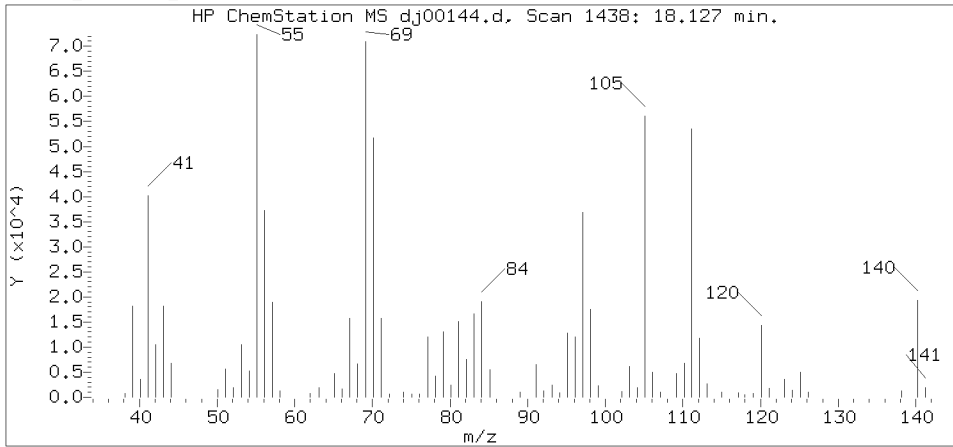
Reference Standard Spectrum for Cumene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

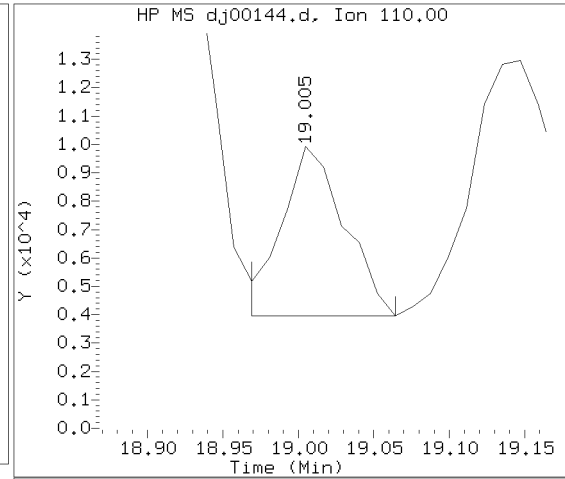
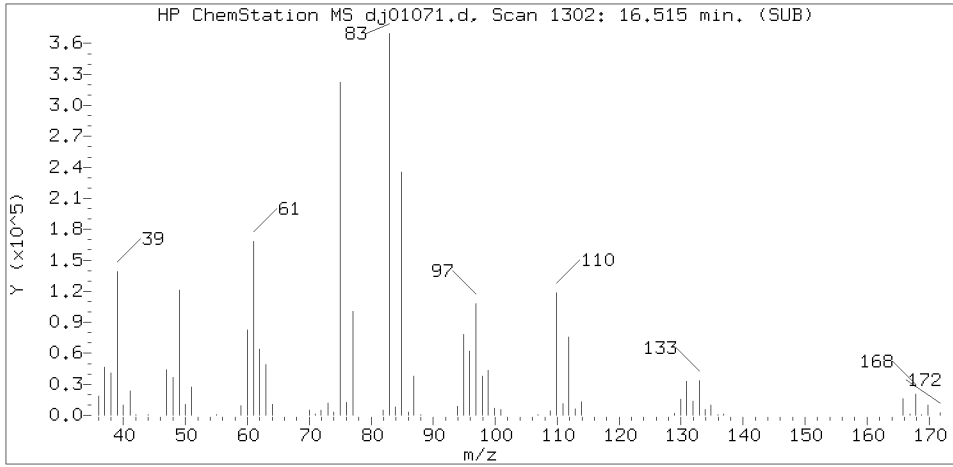
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

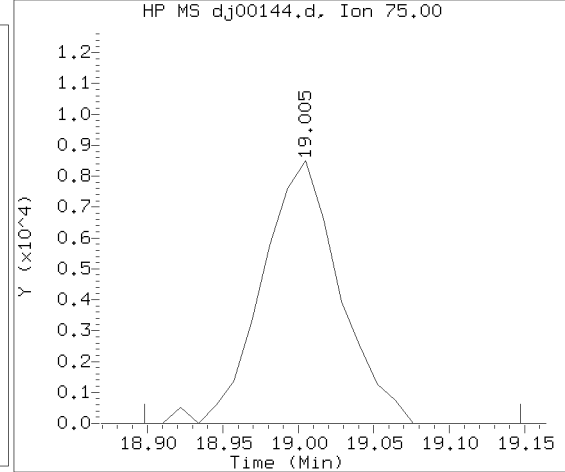
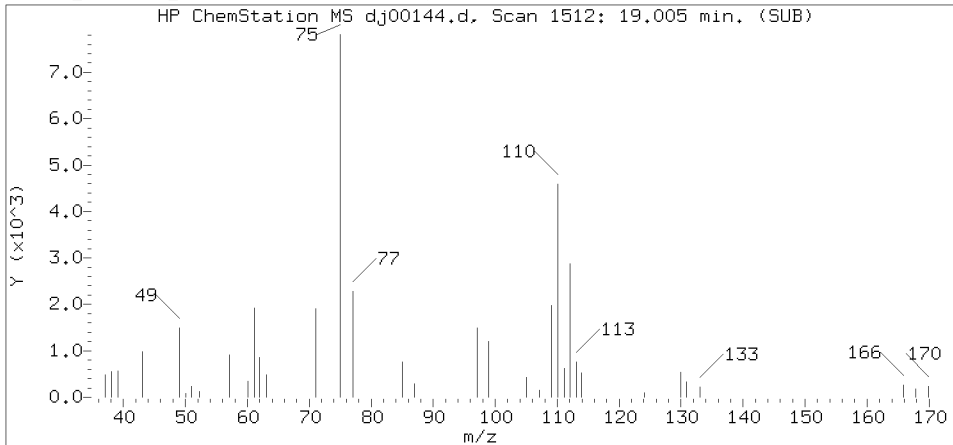
Lab Sample ID: 8065068

Compound Number : 80
 Compound Name : Cumene
 Scan Number : 1438
 Retention Time (minutes): 18.127
 Relative Retention Time : 0.00013
 Quant Ion : 105.00
 Area (flag) : 196437
 Concentration (ppb(v)) : 0.4951

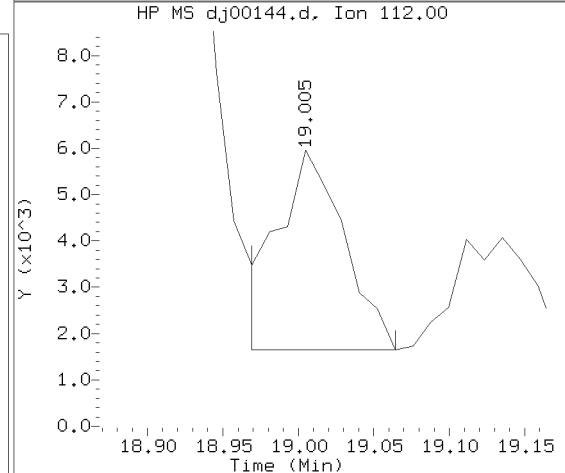
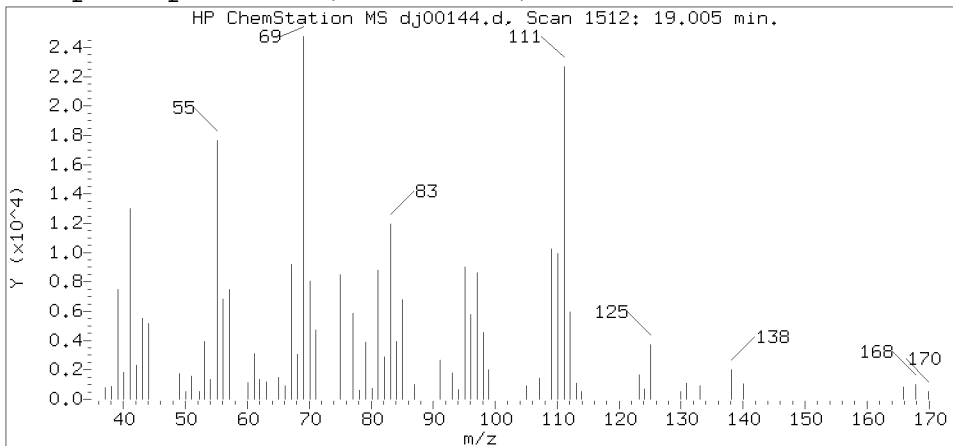
Reference Standard Spectrum for 1,2,3-Trichloropropane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

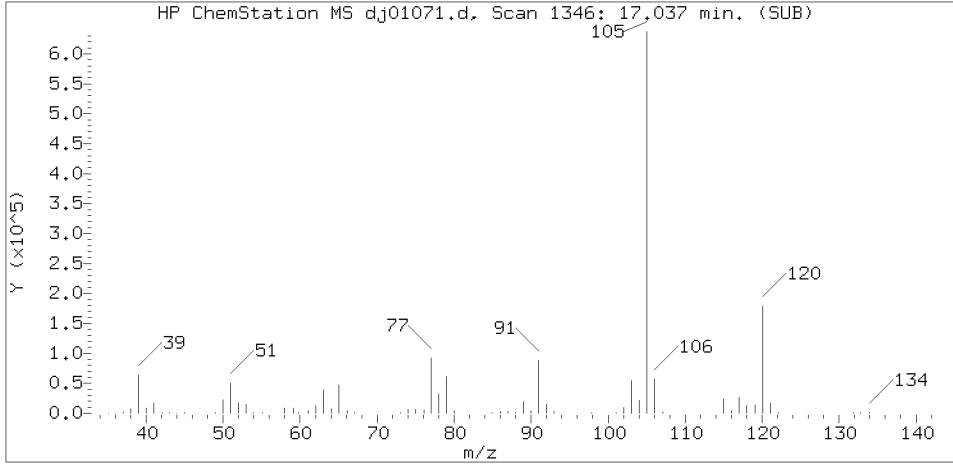
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

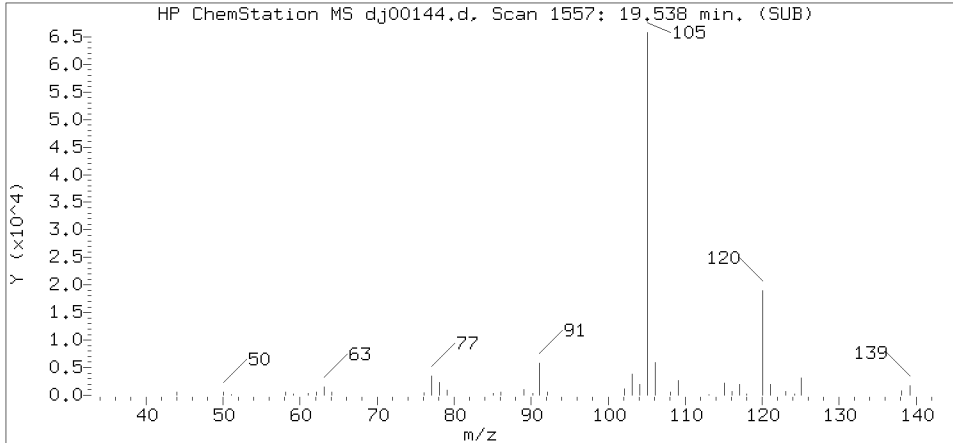
Lab Sample ID: 8065068

Compound Number : 83
 Compound Name : 1,2,3-Trichloropropane
 Scan Number : 1512
 Retention Time (minutes): 19.005
 Relative Retention Time : 0.00018
 Quant Ion : 110.00
 Area (flag) : 17205
 Concentration (ppb(v)) : 0.2843

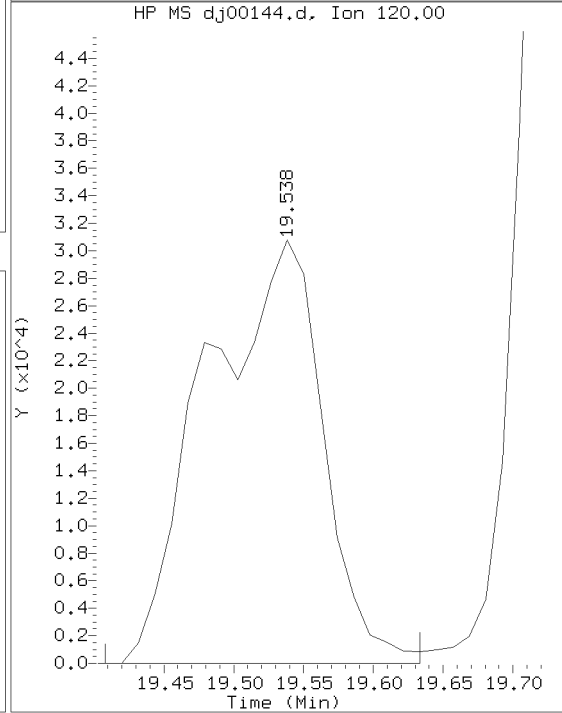
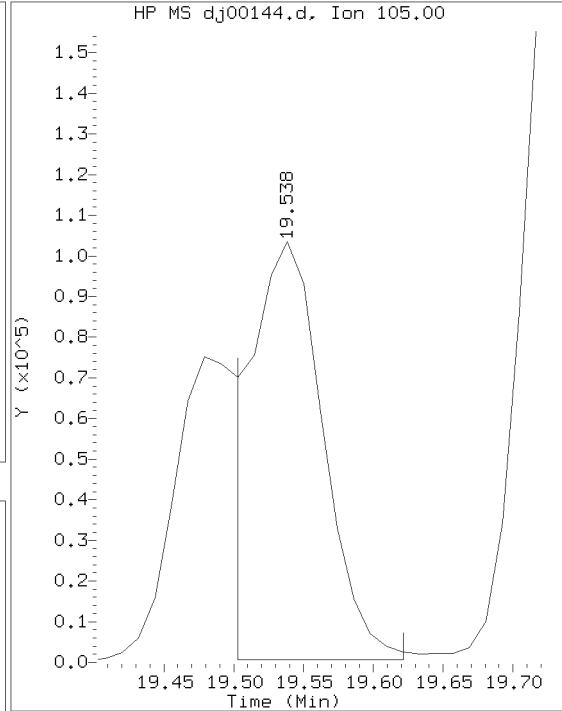
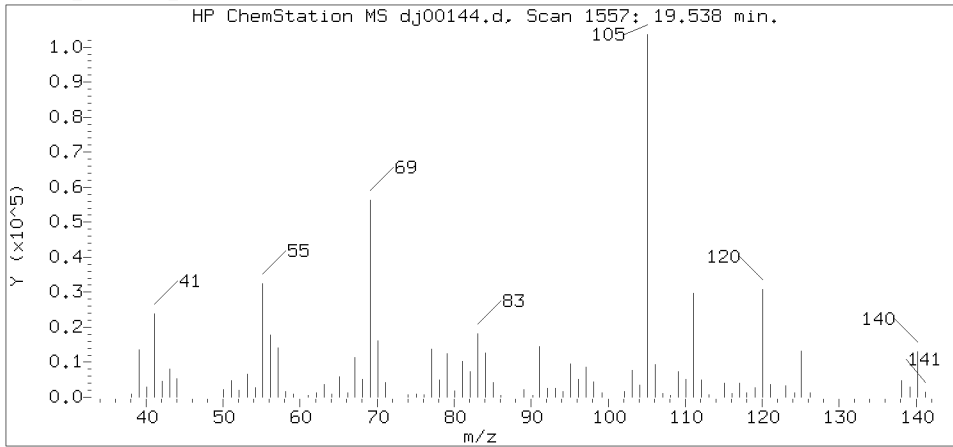
Reference Standard Spectrum for 4-Ethyltoluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

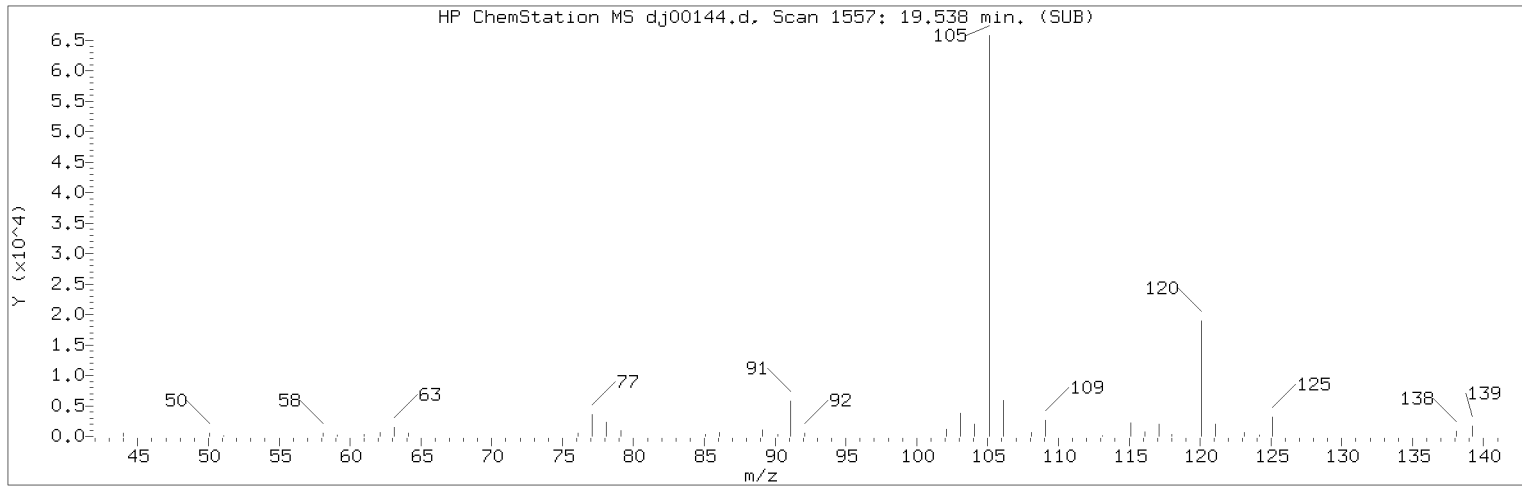
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

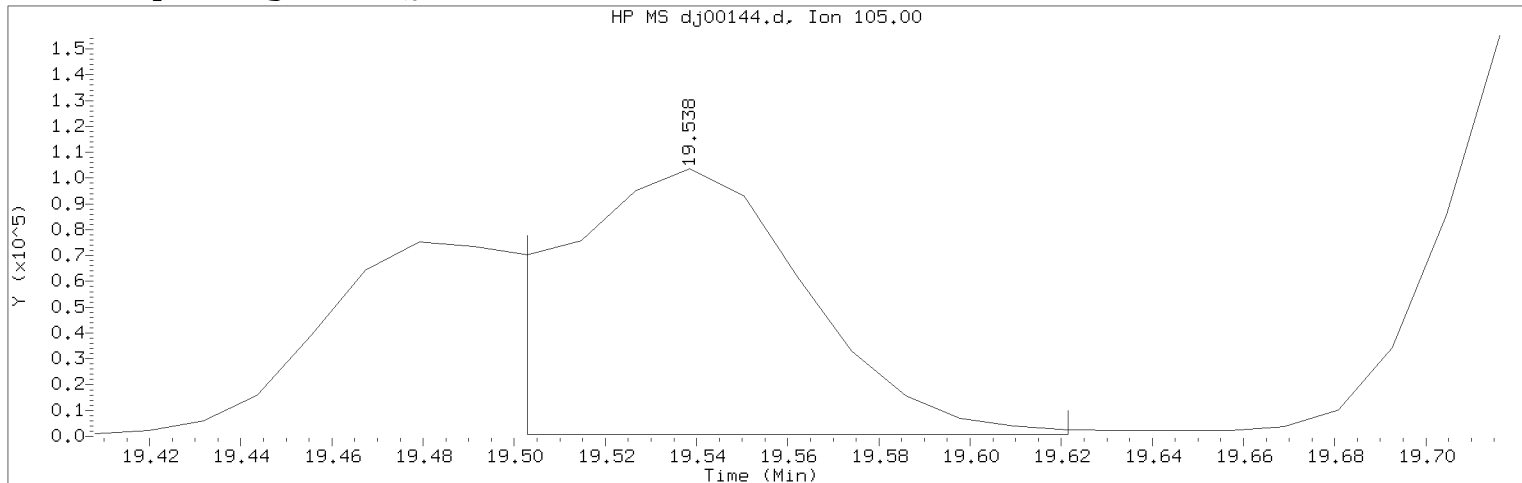
Lab Sample ID: 8065068

Compound Number : 86
 Compound Name : 4-Ethyltoluene
 Scan Number : 1557
 Retention Time (minutes): 19.538
 Relative Retention Time : 0.00020
 Quant Ion : 105.00
 Area (flag) : 394719M
 Concentration (ppb(v)) : 1.0121

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3 Lab Sample ID: 8065068

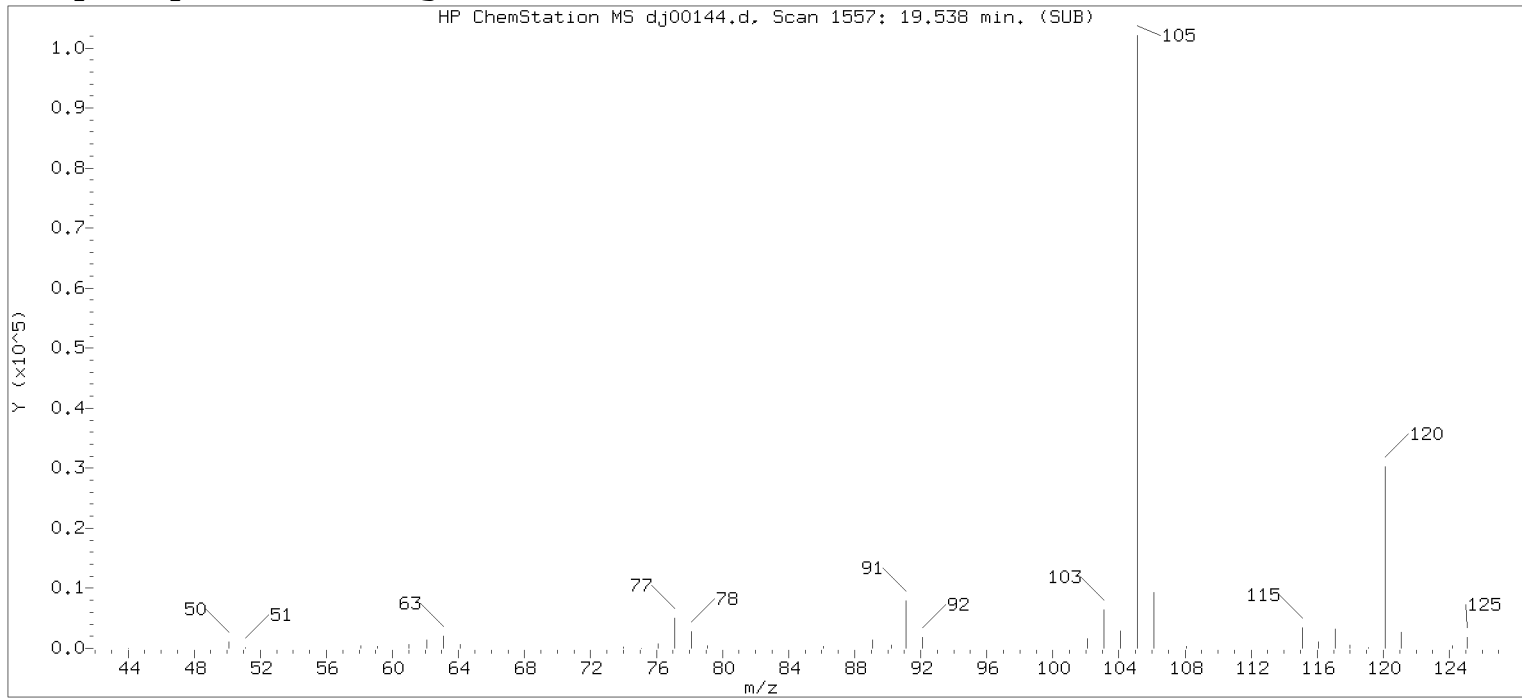
Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 1557
Retention Time (minutes): 19.538
Quant Ion : 105.00
Area (flag) : 394719M
Concentration (ppb(v)) : 1.0121
Integration start scan : 1553 Integration stop scan: 1563
Y at integration start : 629 Y at integration end: 629

Reason for manual integration: improper integration

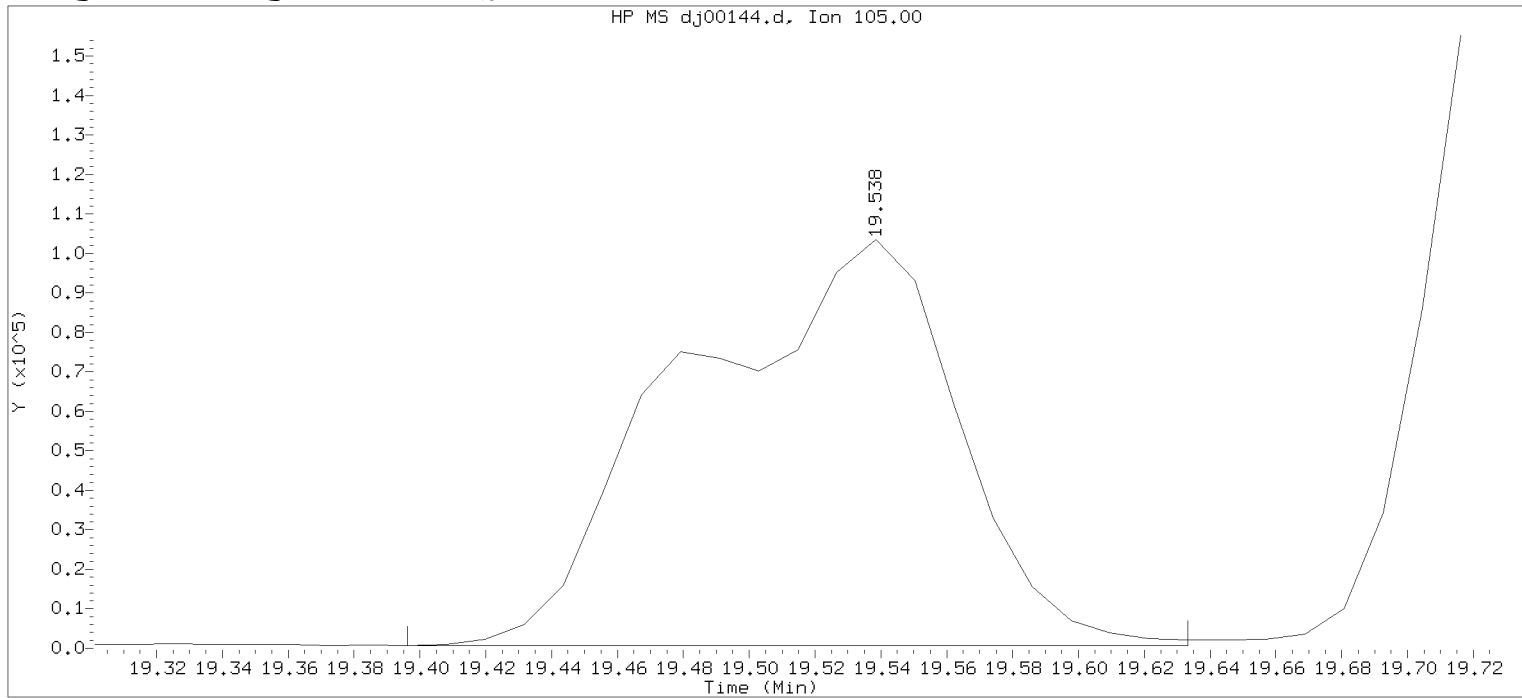
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 08:55.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:04.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



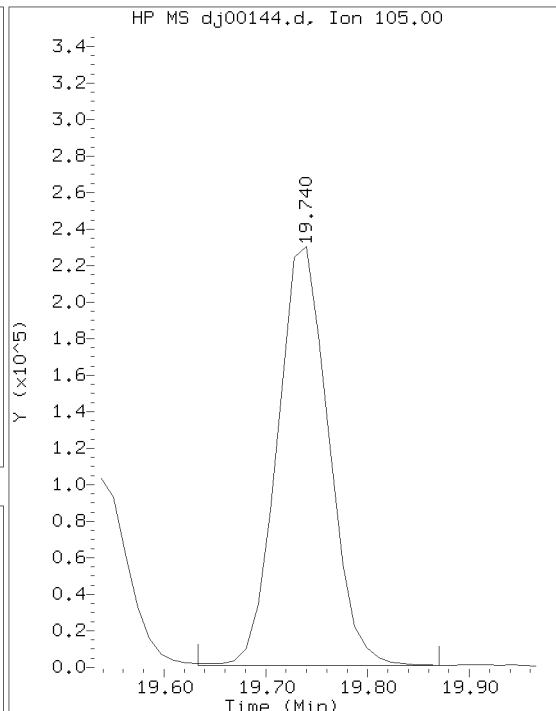
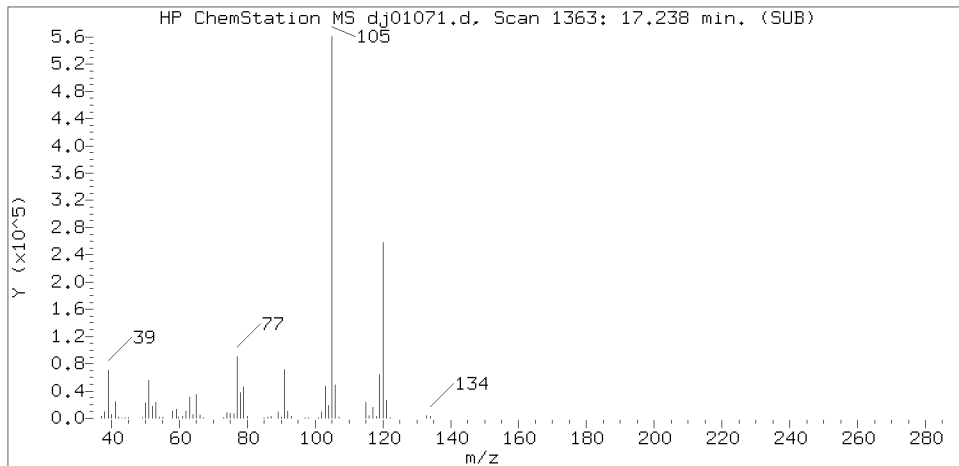
Data File: /chem/HP10145.i/15oct07.b/dj00144.d Instrument ID: HP10145.i
 Injection date and time: 08-OCT-2015 01:31 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: 292
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 08-Oct-2015 02:12 Automation

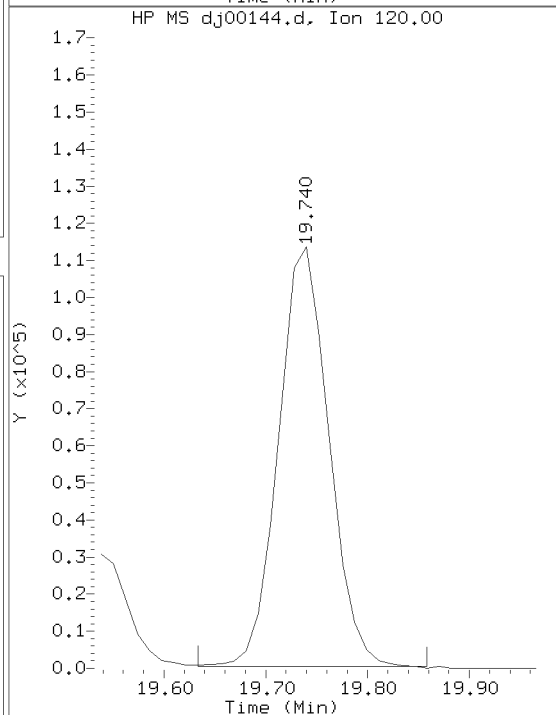
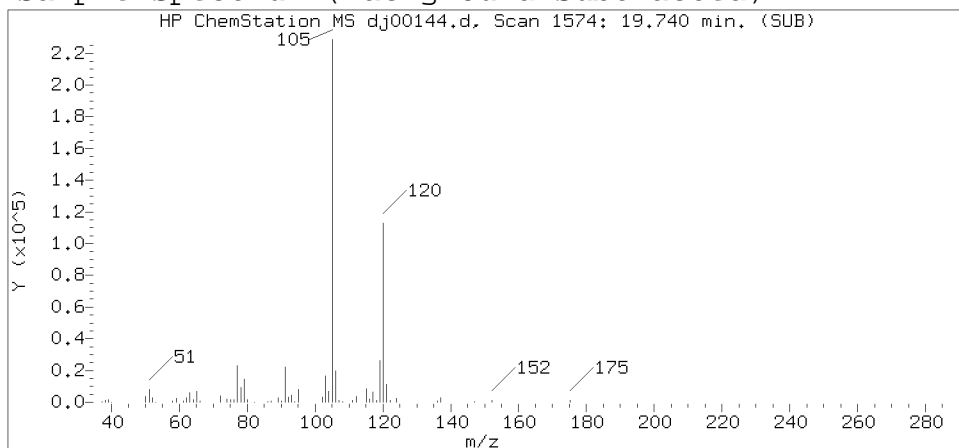
Sample Name: SVMP3 Lab Sample ID: 8065068

Compound Number : 86
 Compound Name : 4-Ethyltoluene
 Scan Number : 1557
 Retention Time (minutes): 19.538
 Quant Ion : 105.00
 Area : 588337
 Concentration (ppb(v)) : 1.5086
 Integration start scan : 1544 Integration stop scan: 1564
 Y at integration start : 671 Y at integration end: 671

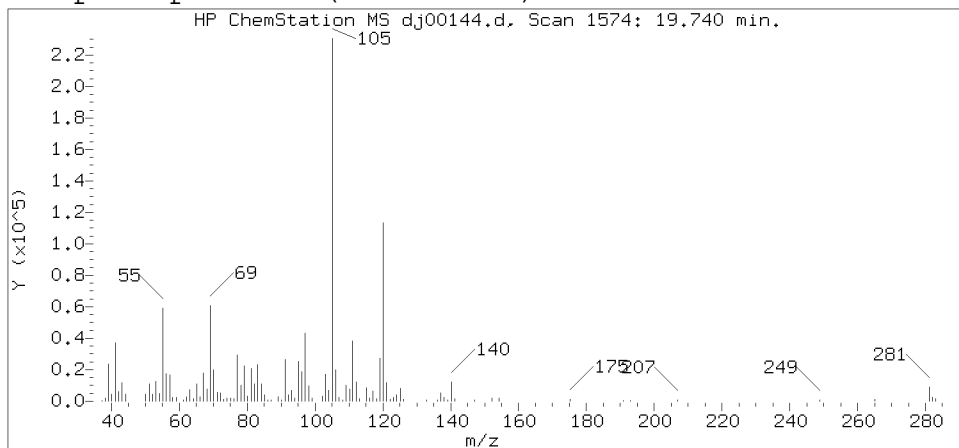
Reference Standard Spectrum for 1,3,5-Trimethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

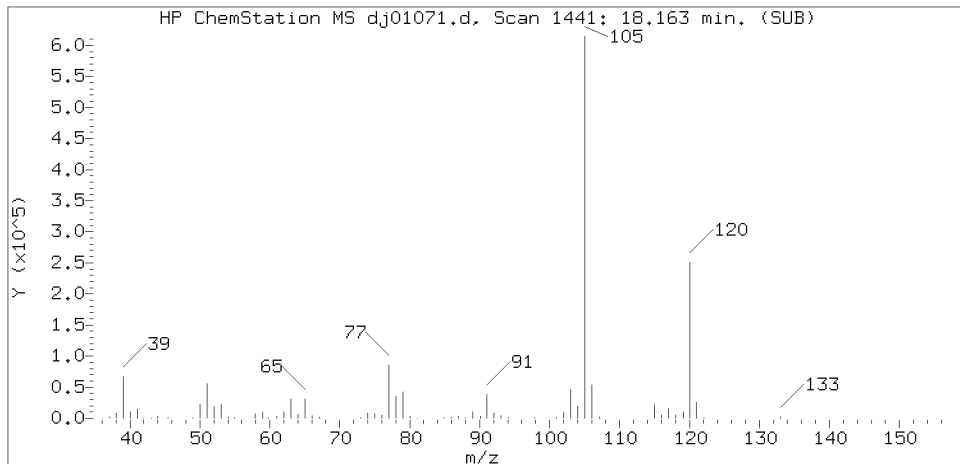
Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

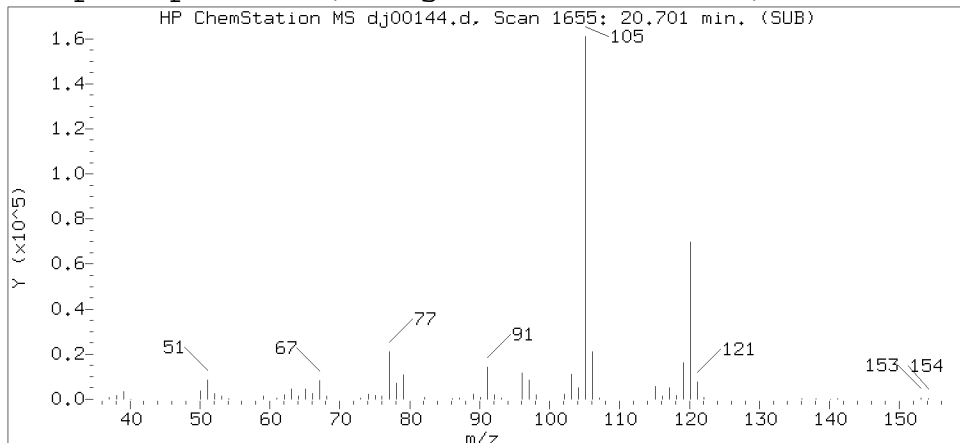
Lab Sample ID: 8065068

Compound Number : 87
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1574
Retention Time (minutes): 19.740
Relative Retention Time : -0.00056
Quant Ion : 105.00
Area (flag) : 804531
Concentration (ppb(v)) : 2.2760

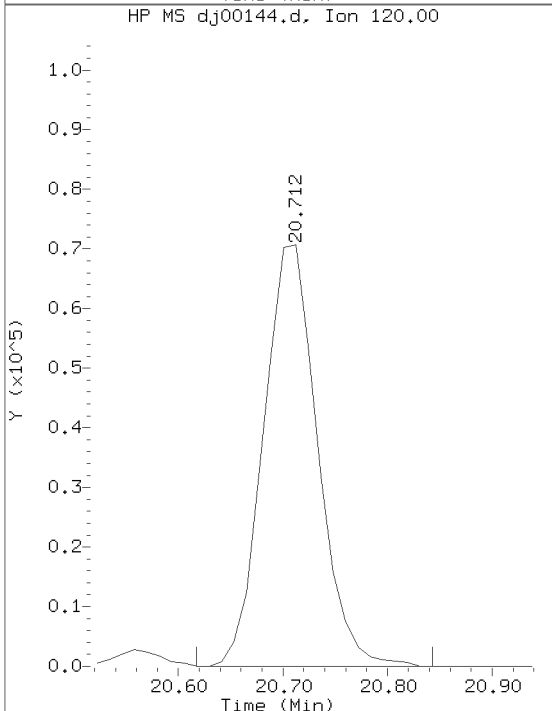
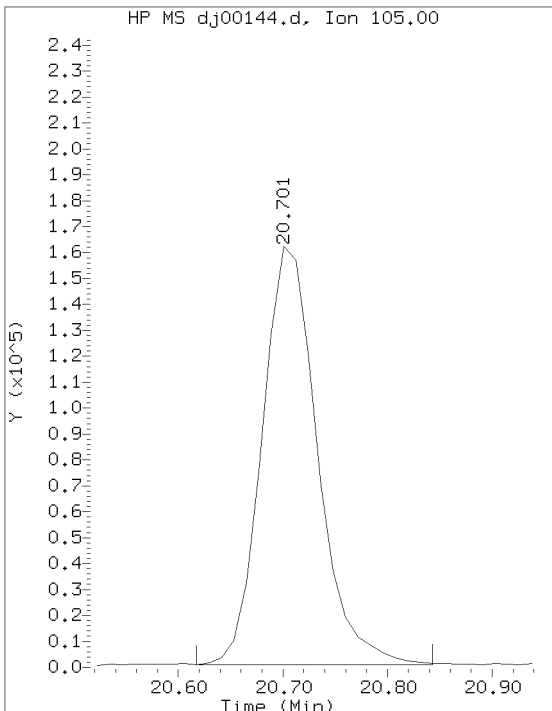
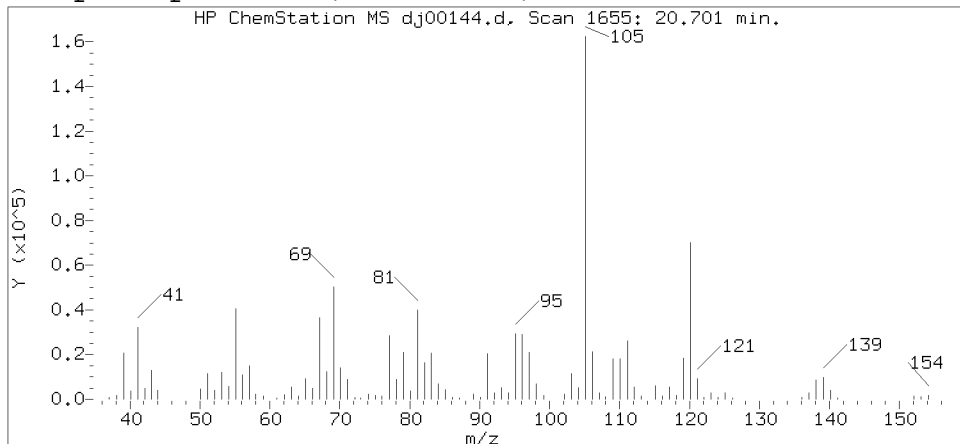
Reference Standard Spectrum for 1,2,4-Trimethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

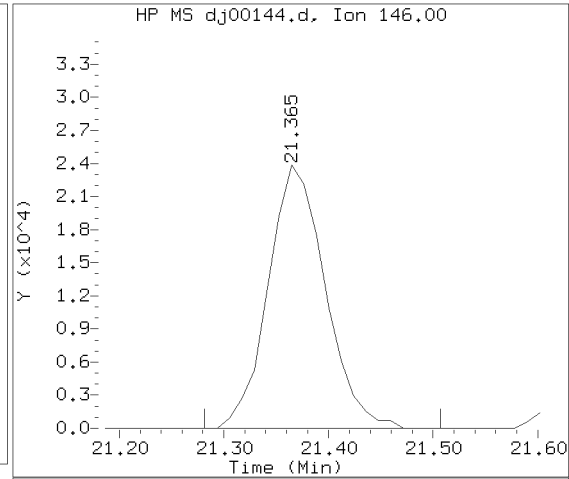
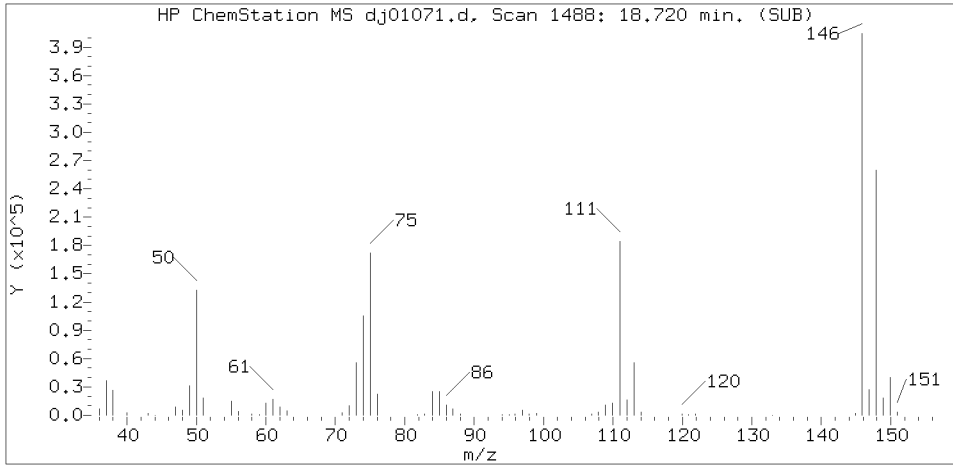
Sublist used: 292

Sample Name: SVMP3

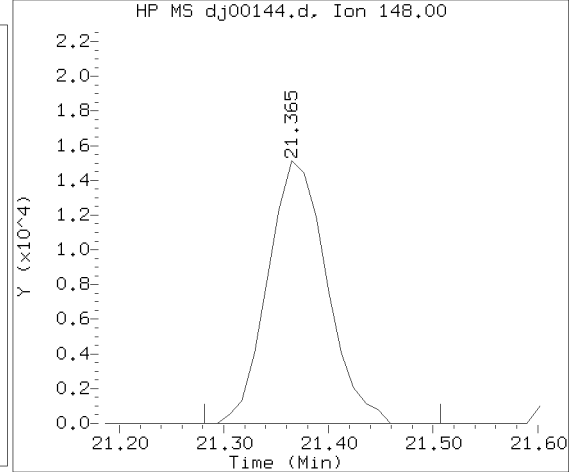
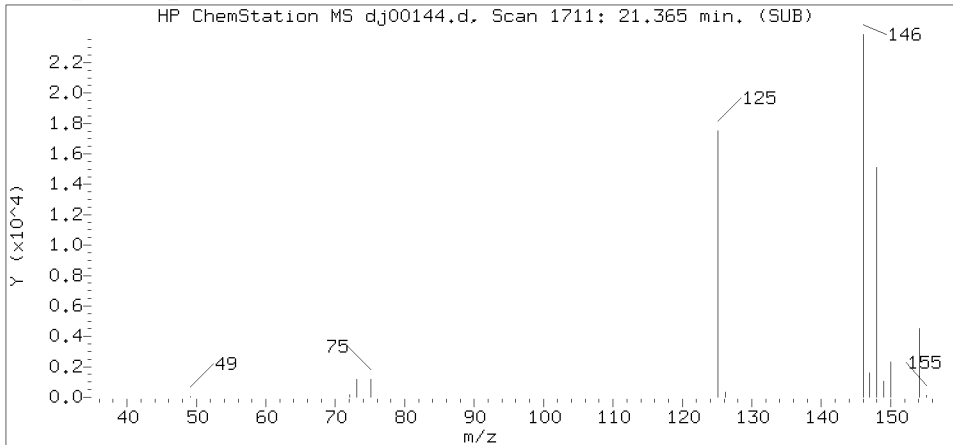
Lab Sample ID: 8065068

Compound Number : 90
Compound Name : 1,2,4-Trimethylbenzene
Scan Number : 1655
Retention Time (minutes): 20.701
Relative Retention Time : 0.00026
Quant Ion : 105.00
Area (flag) : 593745
Concentration (ppb(v)) : 1.7608

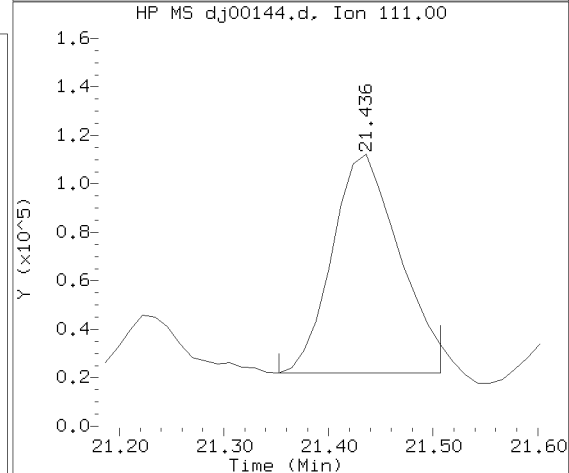
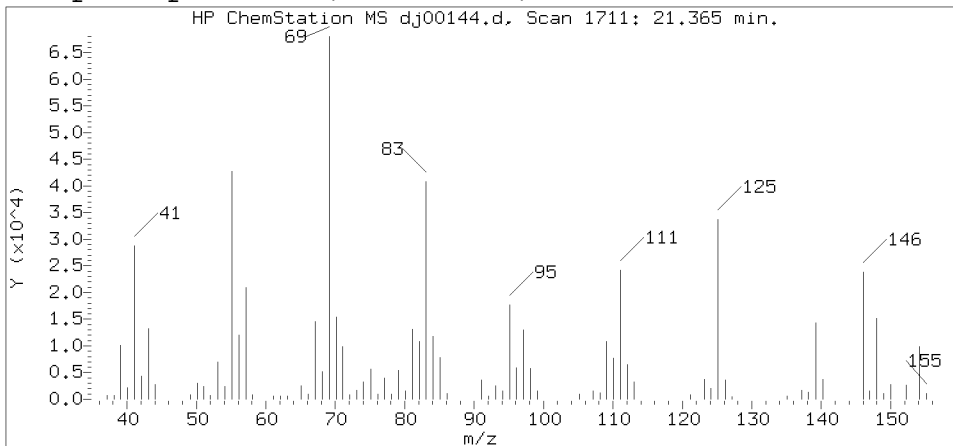
Reference Standard Spectrum for 1,3-Dichlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

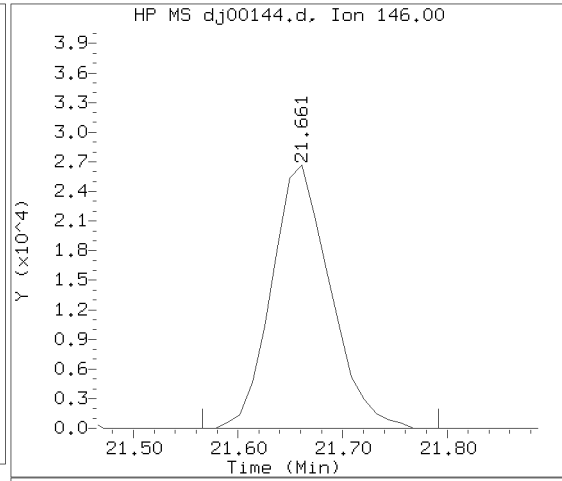
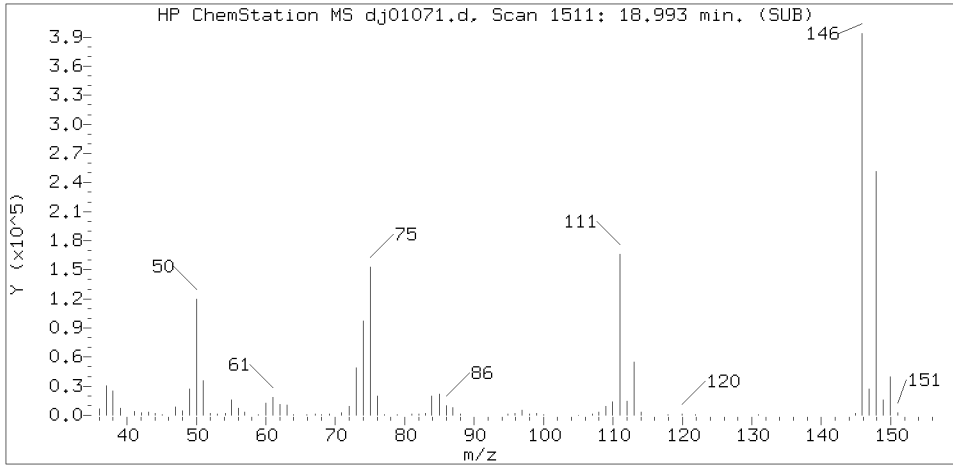
Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

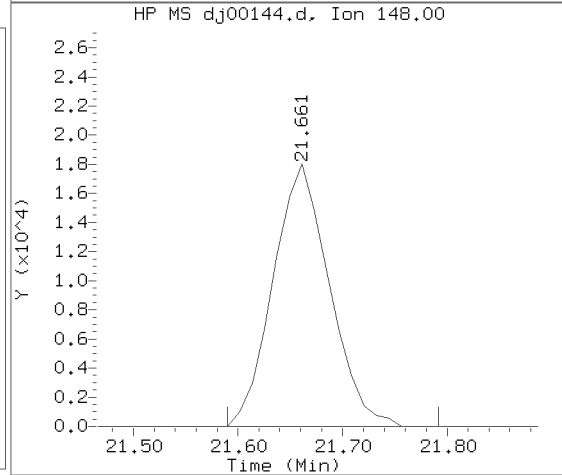
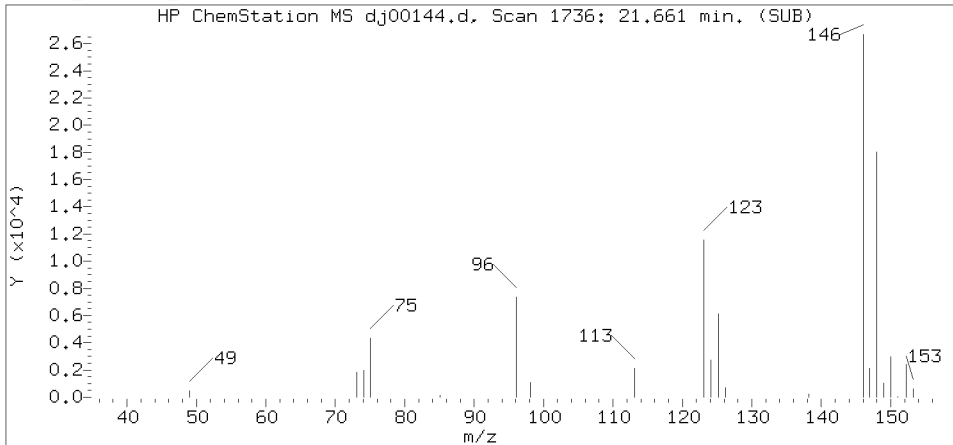
Lab Sample ID: 8065068

Compound Number : 92
 Compound Name : 1,3-Dichlorobenzene
 Scan Number : 1711
 Retention Time (minutes): 21.365
 Relative Retention Time : 0.00029
 Quant Ion : 146.00
 Area (flag) : 90370
 Concentration (ppb(v)) : 0.4479

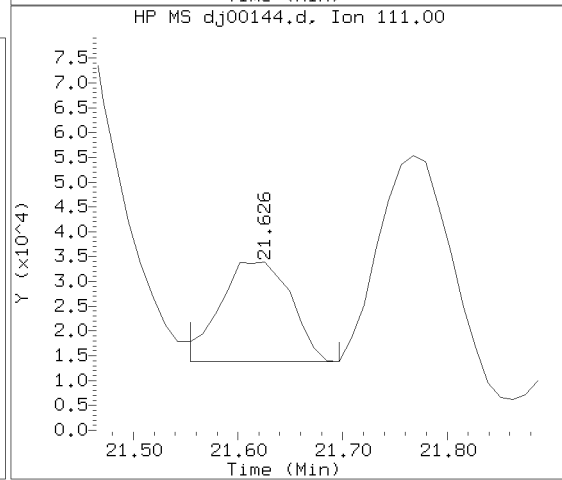
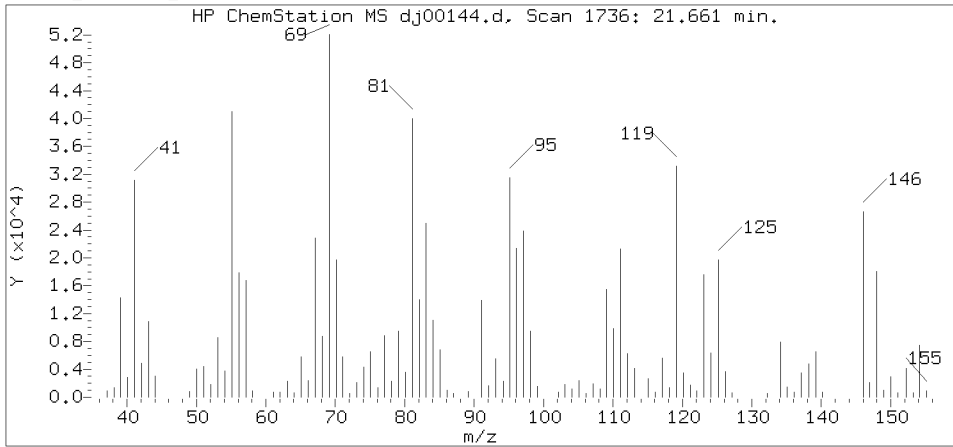
Reference Standard Spectrum for 1,4-Dichlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

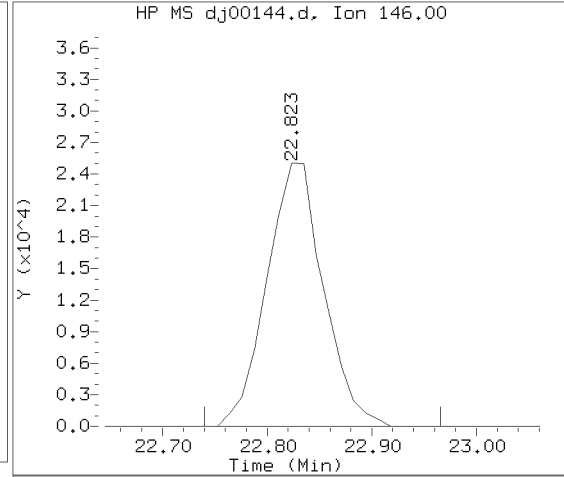
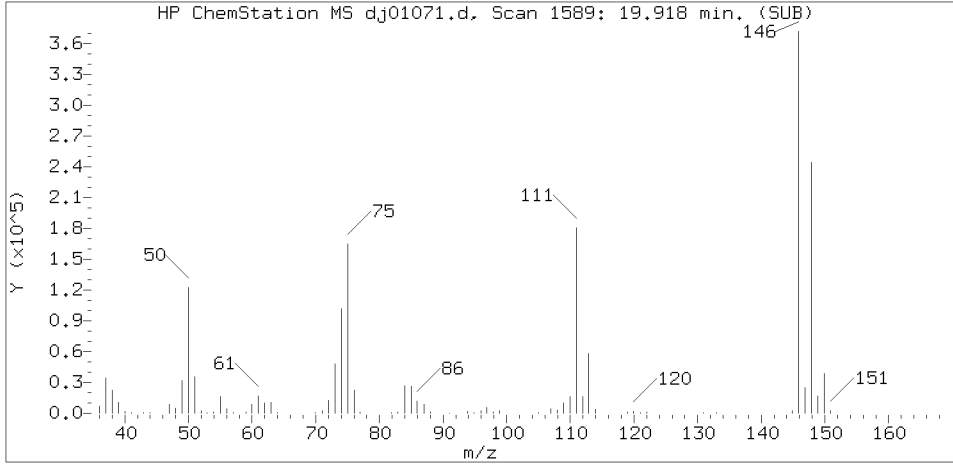
Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

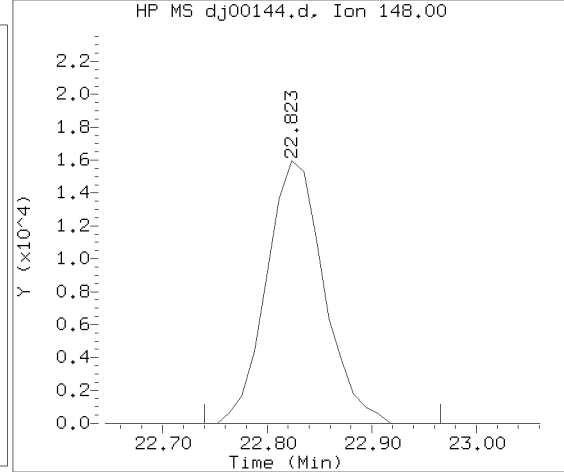
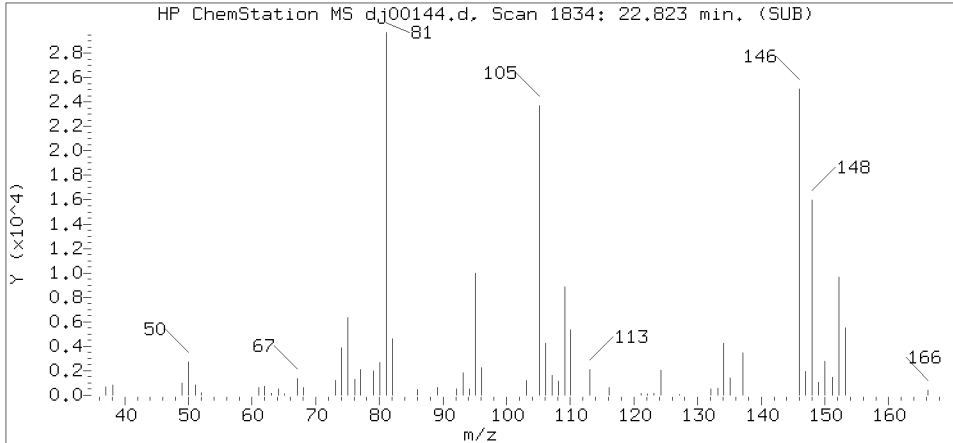
Sample Name: SVMP3 Lab Sample ID: 8065068

Compound Number : 93
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1736
Retention Time (minutes): 21.661
Relative Retention Time : -0.00046
Quant Ion : 146.00
Area (flag) : 103844
Concentration (ppb(v)) : 0.5268

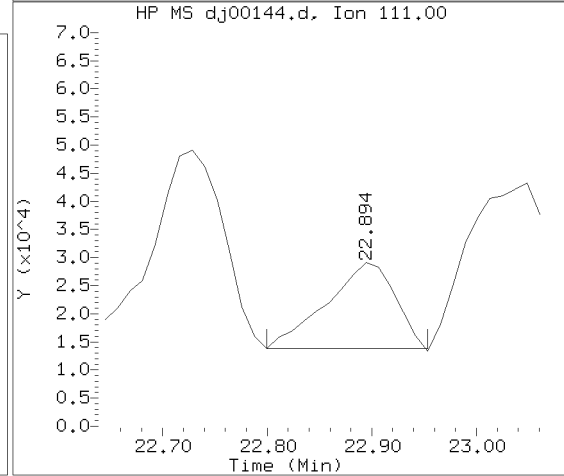
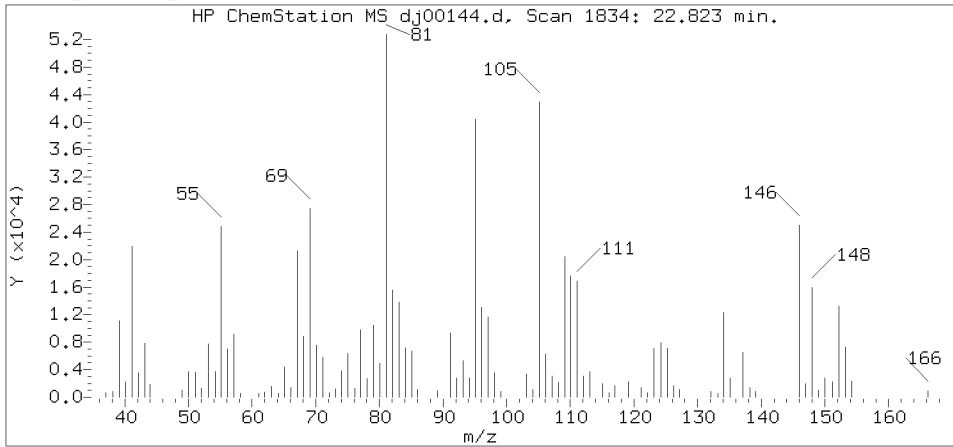
Reference Standard Spectrum for 1,2-Dichlorobenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP10145.i/15oct07.b/dj00144.d
 Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

Lab Sample ID: 8065068

Compound Number : 96
 Compound Name : 1,2-Dichlorobenzene
 Scan Number : 1834
 Retention Time (minutes): 22.823
 Relative Retention Time : 0.00036
 Quant Ion : 146.00
 Area (flag) : 94437
 Concentration (ppb(v)) : 0.4907



Lancaster Laboratories
Environmental

FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media: CANISTER
Canister ID: 1165
Pressure Received: 21.7 psia
Final Pressure: 5.4 psia
Nominal Volume: 250 cc
Injection Volume: 500 cc
Instrument ID: 10145

Lab Sample ID: 8065068
Lab File ID: dj00144.d
Date Collected: 09/19/2015
Date Received: 09/26/2015
Analyzed Date: 10/08/2015
Analyzed Time: 01:31
Dilution Factor: 2

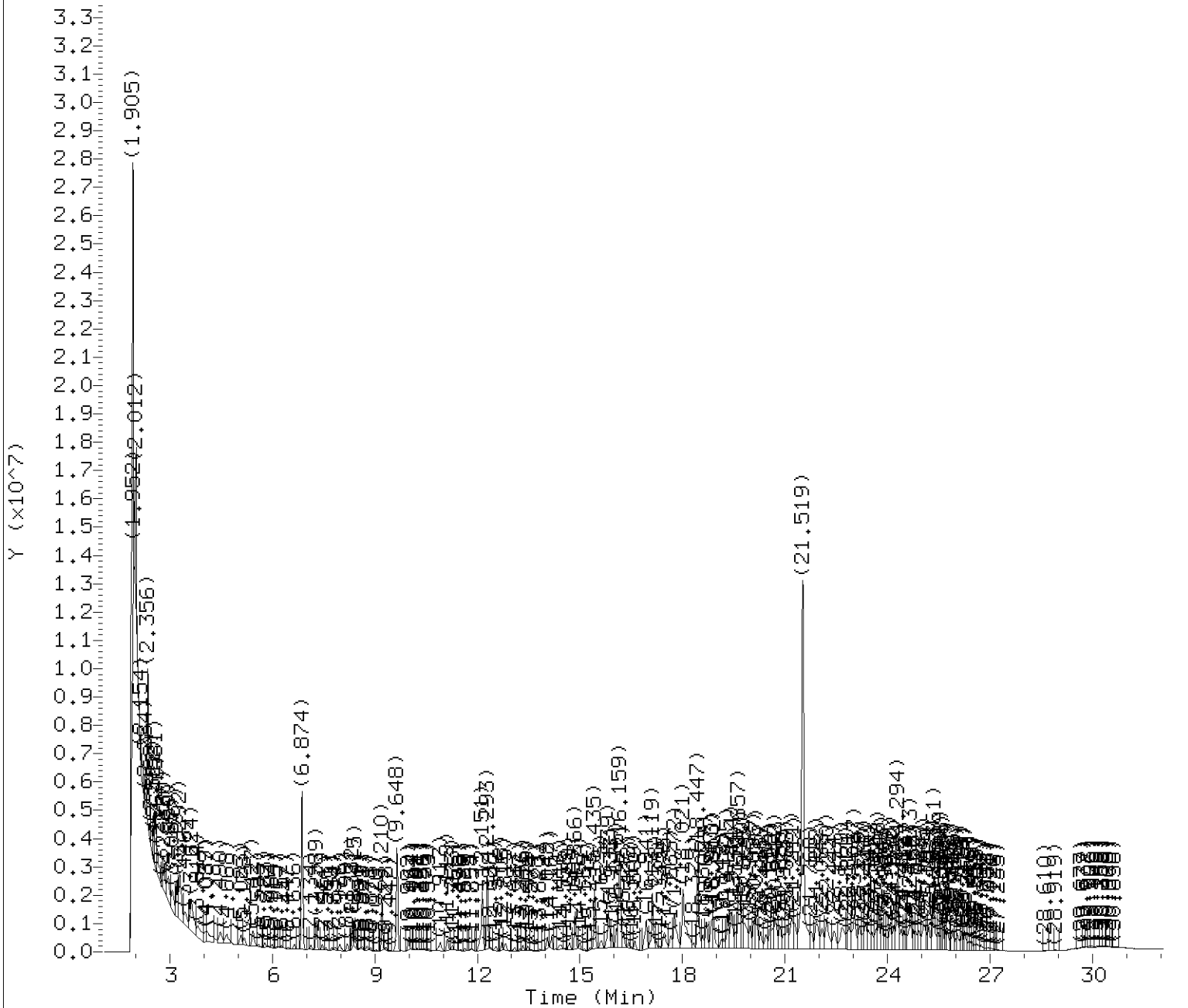
Number TICs Found: 18

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
74-98-6	Propane	2.01	91	J
115-11-7	1-Propene, 2-methyl-	2.36	120	J
	Unknown	2.58	43	J
	Unknown	3.62	54	J
1678-92-8	Cyclohexane, propyl-	17.77	23	J
	Unknown	18.02	45	J
	Unknown	19.44	22	J
	Unknown Cycloalkane	19.66	36	J
	Unknown Organic Acid	19.82	21	J
	Unknown Cycloalkane	21.21	22	J
5989-27-5	D-Limonene	21.52	200	J
	Unknown C3-Alkylbenzene	21.92	22	J
	Unknown Alkane	22.23	22	J
	Unknown	22.67	22	J
	Unknown C4-Alkylbenzene	23.04	28	J
	Unknown	24.29	33	J
	Unknown	24.67	24	J
	Unknown	25.36	26	J
TOTVOATIC	Total Tics		850	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

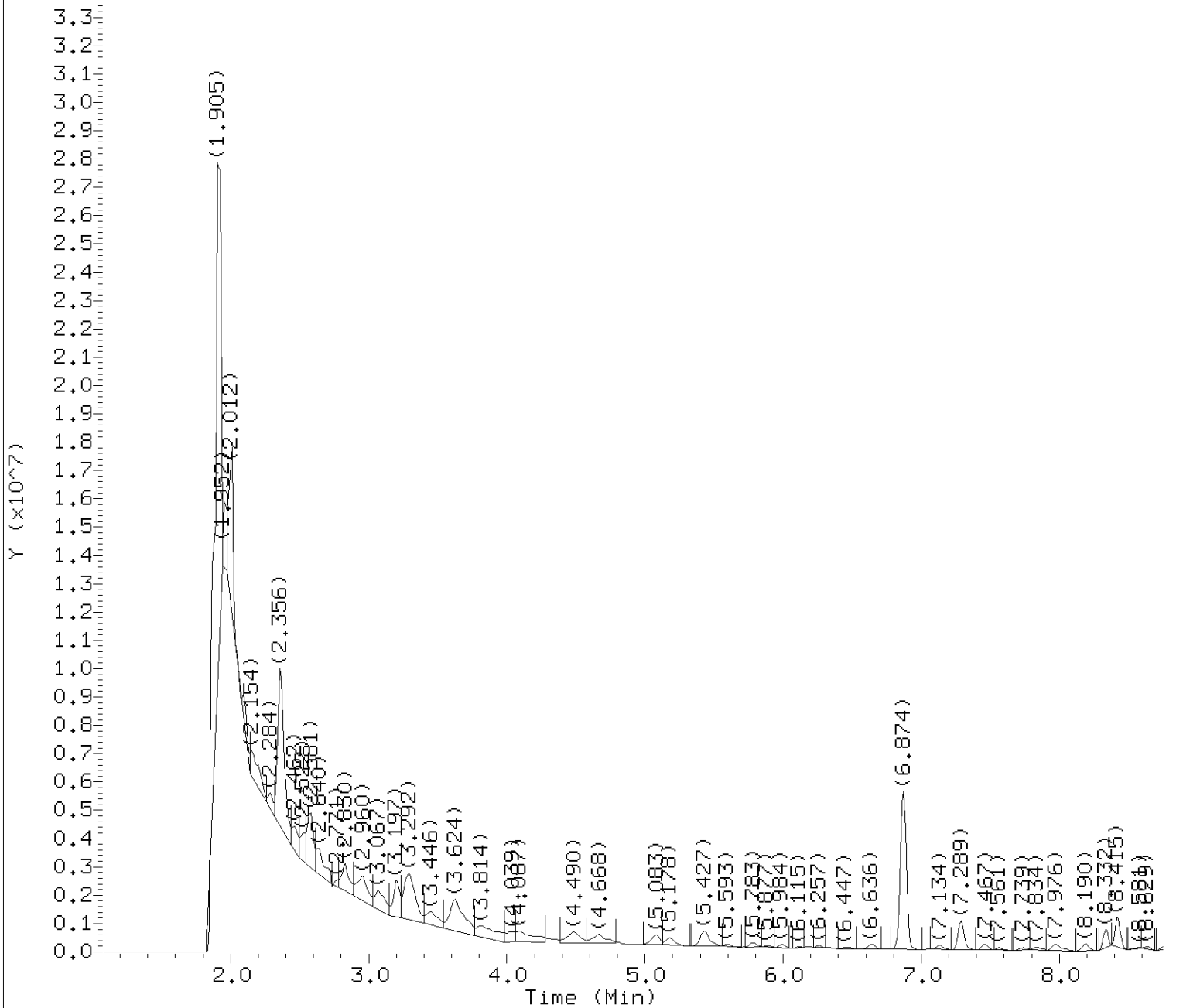
Sublist used: 292

Sample Name: SVMP3

Lab Sample ID: 8065068

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:52.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: 292

Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sample Name: SVMP3

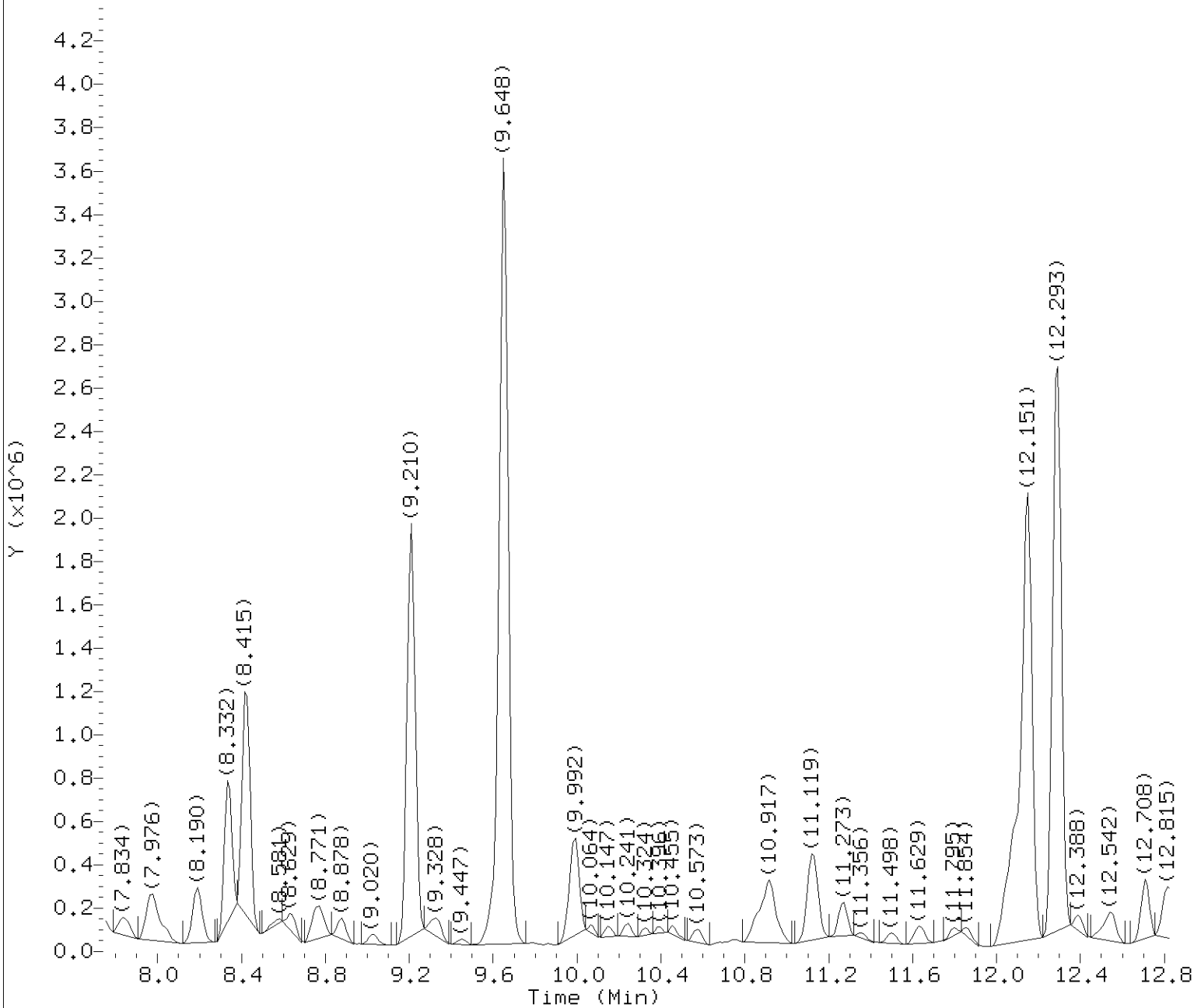
Lab Sample ID: 8065068

Internal Standard referenced: Bromochloromethane at 7.289 minutes

Chromatogram Start Time (min.): 1.087

Chromatogram End Time (min.): 8.249

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:52.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

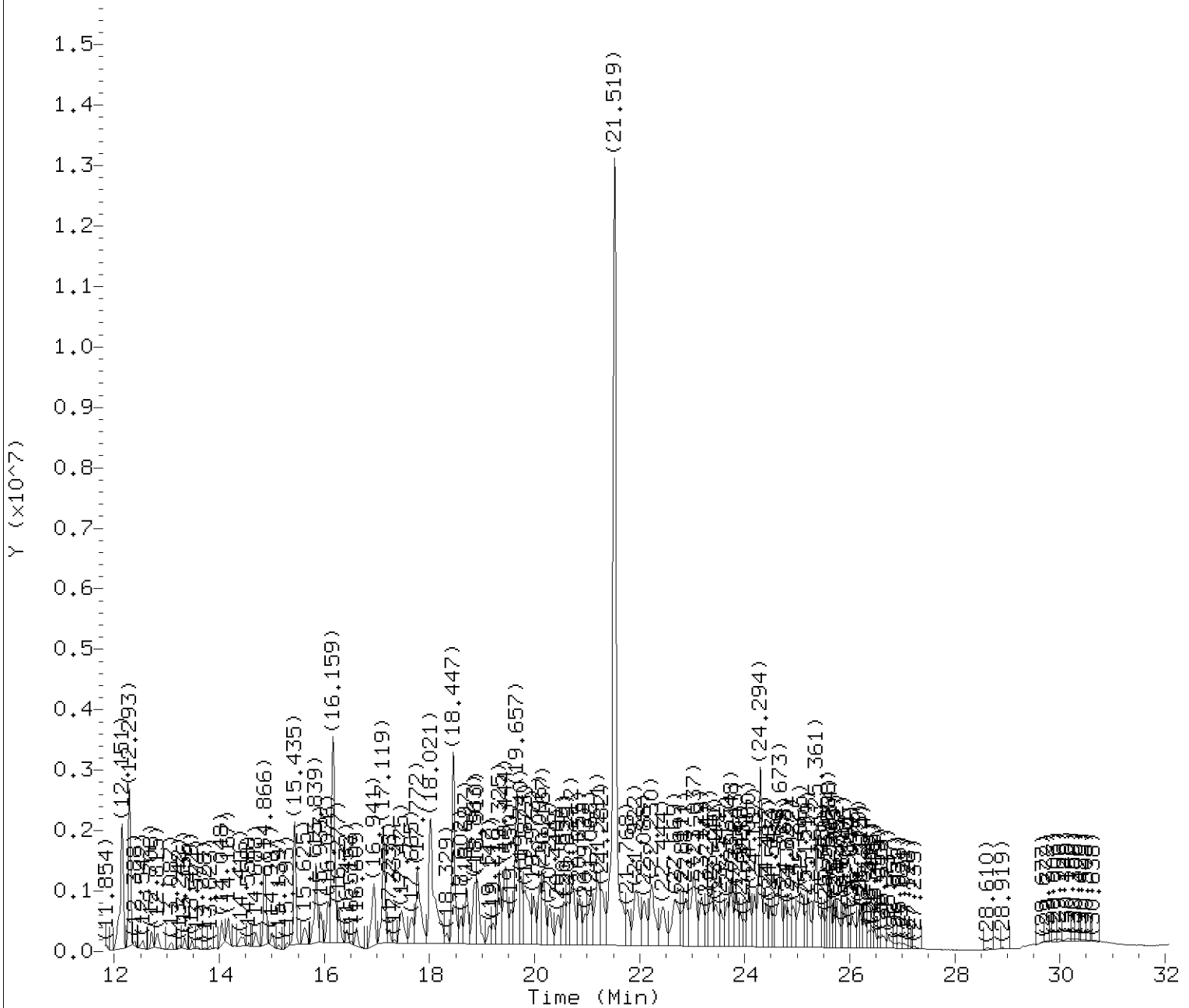
Sublist used: 292

Sample Name: SVMP3

Lab Sample ID: 8065068

Internal Standard referenced: 1,4-Difluorobenzene at 9.210 minutes
Chromatogram Start Time (min.): 8.249
Chromatogram End Time (min.): 12.323

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:52.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00144.d
Injection date and time: 08-OCT-2015 01:31

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 16-Oct-2015 08:51 jbs01304

Sublist used: 292

Sample Name: SVMP3

Lab Sample ID: 8065068

Internal Standard referenced: Chlorobenzene-d5 at 15.435 minutes
Chromatogram Start Time (min.): 12.323
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 08:52.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP10145.i/15oct07.b/dj00144.d
Lab Smp Id: 8065068 Client Smp ID: SVMP3
Inj Date : 08-OCT-2015 01:31
Operator : jeb07445 Inst ID: HP10145.i
Smp Info : 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;
Misc Info : dj00138;292.sub;250;5.4140;21.6560;1165;
Comment :
Method : /chem/HP10145.i/15oct07.b/to-15.m
Meth Date : 16-Oct-2015 08:42 jbs01304 Quant Type: ISTD
Cal Date : 01-OCT-2015 17:08 Cal File: dj00008.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Xa	21.65600	canister pressure absolute after dilutio
Ya	5.41400	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	500.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 40 Bromochloromethane	7.289	3119087	10.000
* 71 Chlorobenzene-d5	15.435	6618652	10.000

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Propane					CAS #: 74-98-6		
2.012	14164211	45.4113899	90.82277982	45	NIST11.1	79	40
1-Propene, 2-methyl-					CAS #: 115-11-7		
2.356	18951843	60.7608522	121.5217045	90	NIST11.1	188	40

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown				CAS #:			
2.581	6726641	21.5660536	43.13210711	0		0	40
Unknown				CAS #:			
3.624	8369816	26.8341773	53.66835465	0		0	40
Cyclohexane, propyl-				CAS #: 1678-92-8			
17.772	7631582	11.5304167	23.06083334	94	NIST11.1	11538	71
Unknown				CAS #:			
18.021	14942623	22.5765343	45.15306868	0		0	71
Unknown				CAS #:			
19.444	7268785	10.9822741	21.96454814	0		0	71
Unknown Cycloalkane				CAS #:			
19.657	11768955	17.7814975	35.56299497	0		0	71
Unknown Organic Acid				CAS #:			
19.823	6892489	10.4137341	20.82746812	0		0	71
Unknown Cycloalkane				CAS #:			
21.211	7241340	10.9408078	21.88161565	0		0	71
D-Limonene				CAS #: 5989-27-5			
21.519	65466098	98.9115228	197.8230456	99	NIST11.1	15682	71
Unknown C3-Alkylbenzene				CAS #:			
21.922	7262128	10.9722158	21.94443153	0		0	71
Unknown Alkane				CAS #:			
22.230	7277073	10.9947964	21.98959279	0		0	71
Unknown				CAS #:			
22.669	7281156	11.0009648	22.00192958	0		0	71
Unknown C4-Alkylbenzene				CAS #:			
23.037	9114698	13.7712296	27.54245929	0		0	71
Unknown				CAS #:			
24.294	10916175	16.4930474	32.98609490	0		0	71
Unknown				CAS #:			
24.673	7913728	11.9567056	23.91341119	0		0	71

RT	CONCENTRATIONS				QUANT		CPND #
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	
25.361	8721594	13.1772954	26.35459089	0		0	71

Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

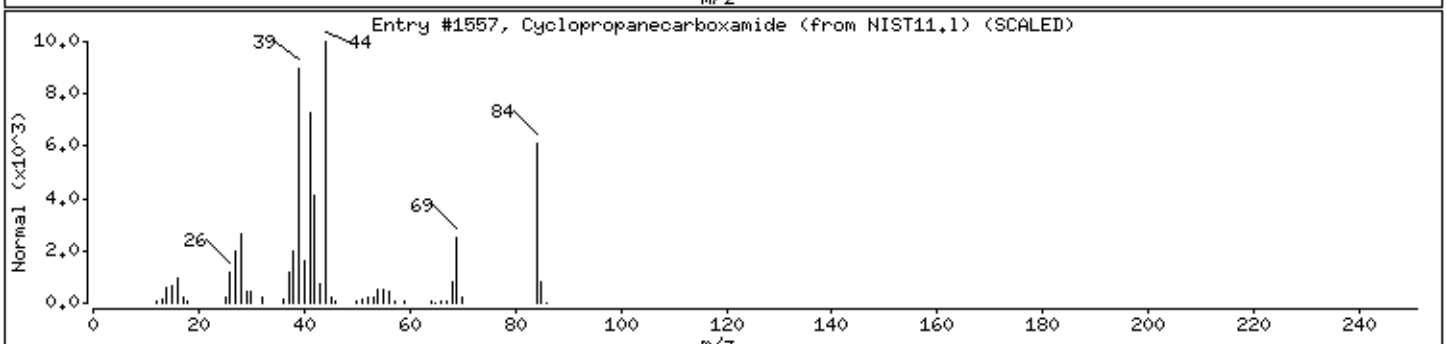
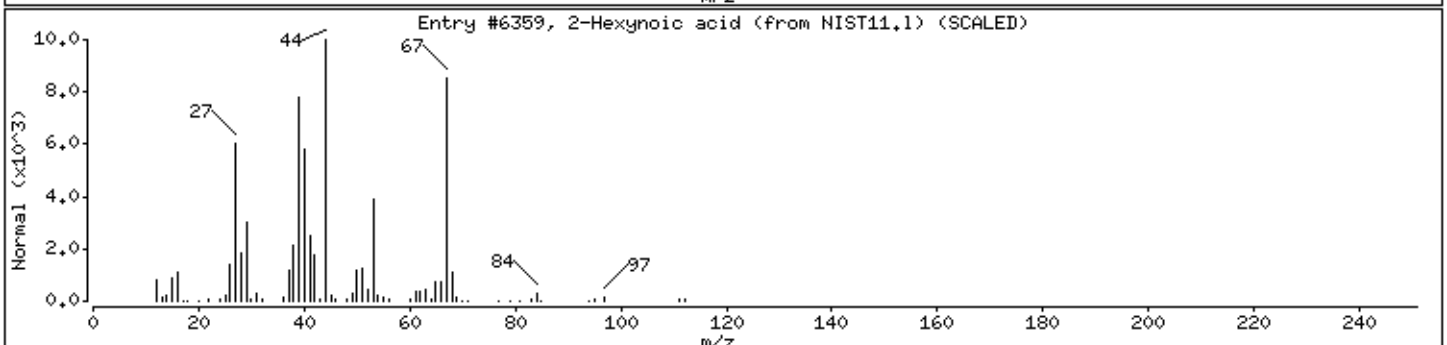
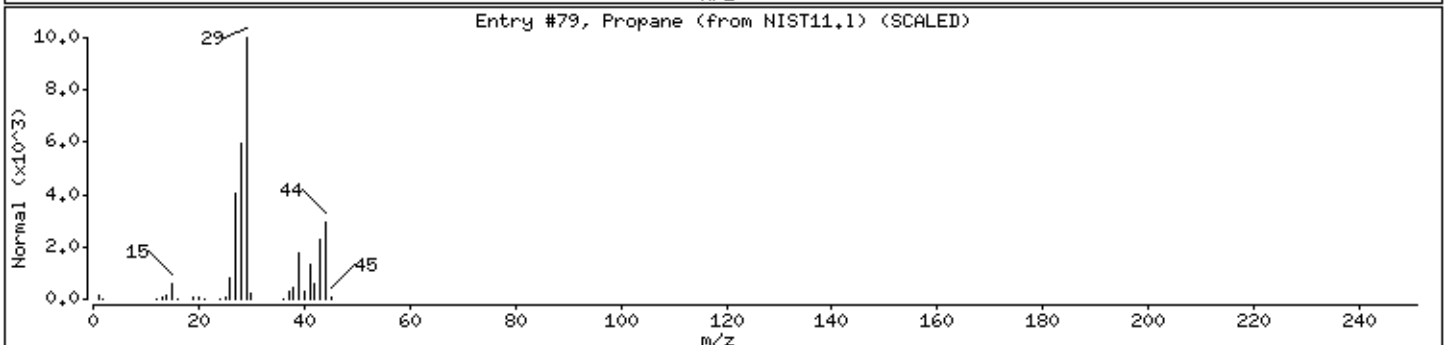
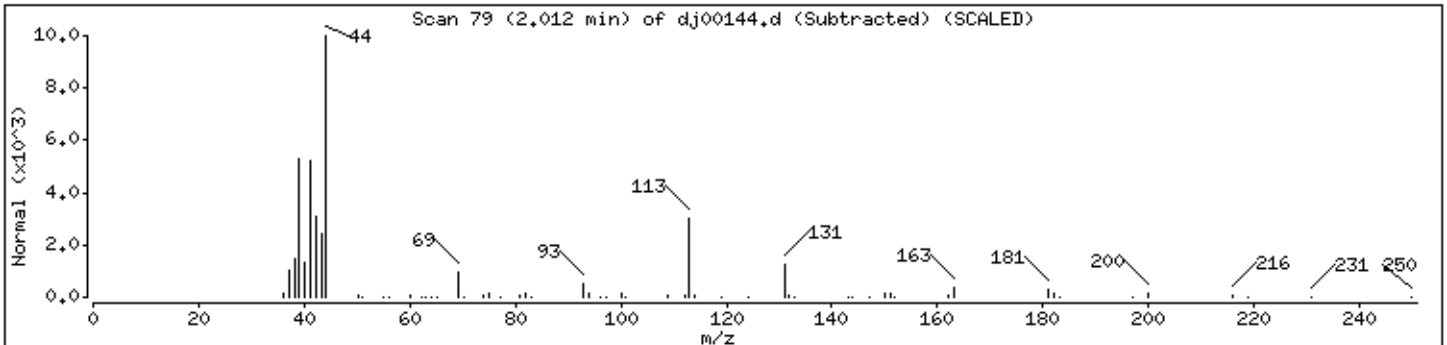
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane	74-98-6	NIST11.1	79	45	C3H8	44
2-Hexynoic acid	764-33-0	NIST11.1	6359	42	C6H8O2	112
Cyclopropanecarboxamide	6228-73-5	NIST11.1	1557	39	C4H7NO	85



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

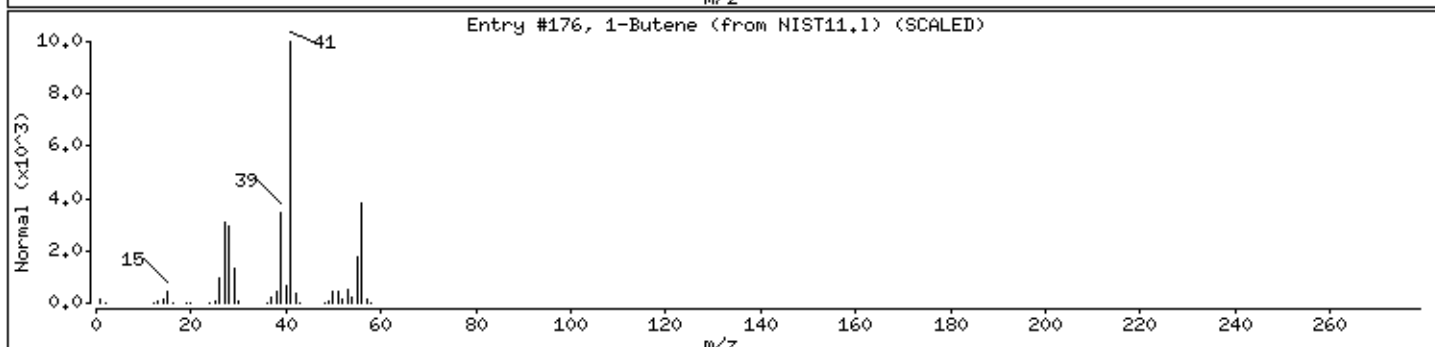
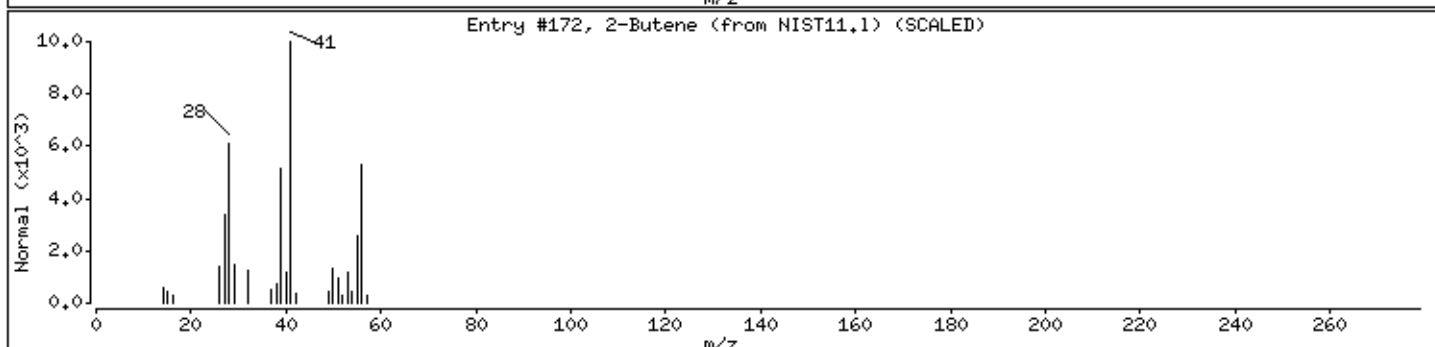
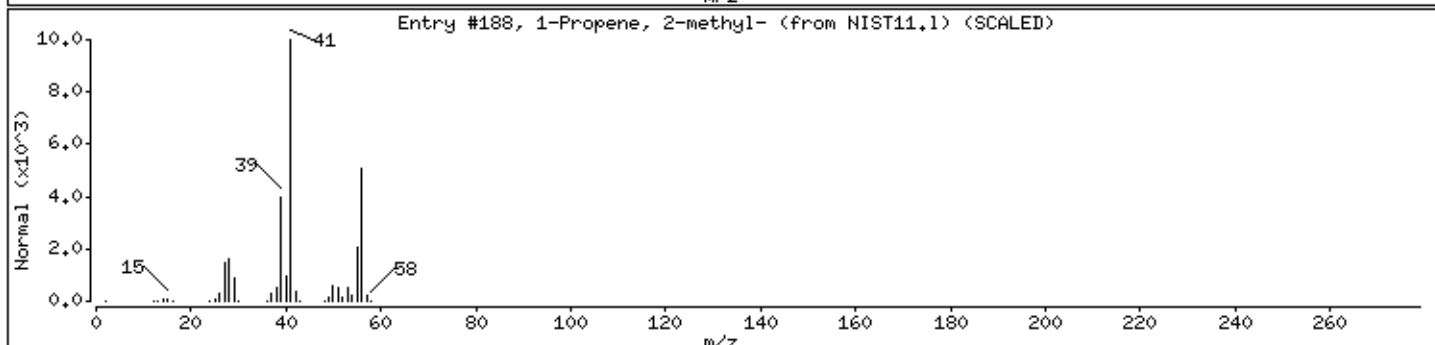
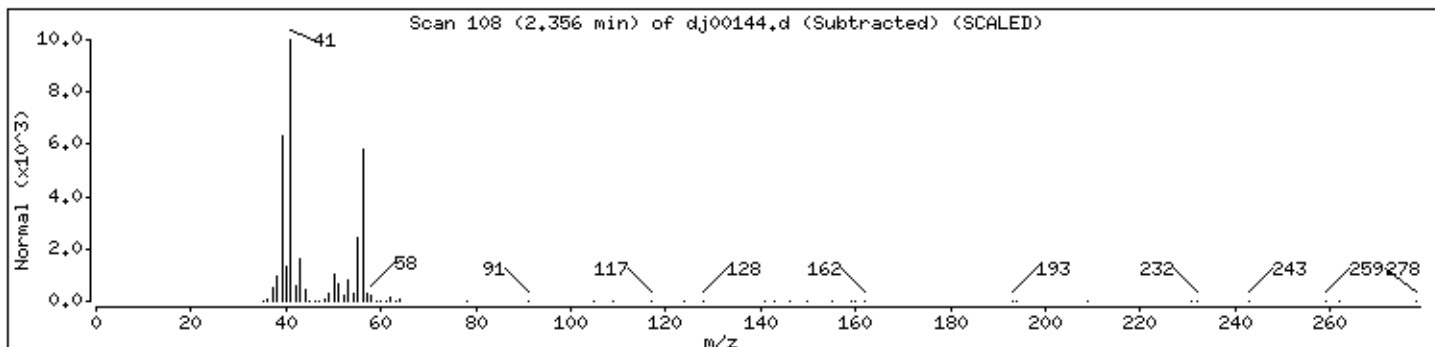
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 2-methyl-	115-11-7	NIST11.1	188	90	C4H8	56
2-Butene	107-01-7	NIST11.1	172	80	C4H8	56
1-Butene	106-98-9	NIST11.1	176	64	C4H8	56



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

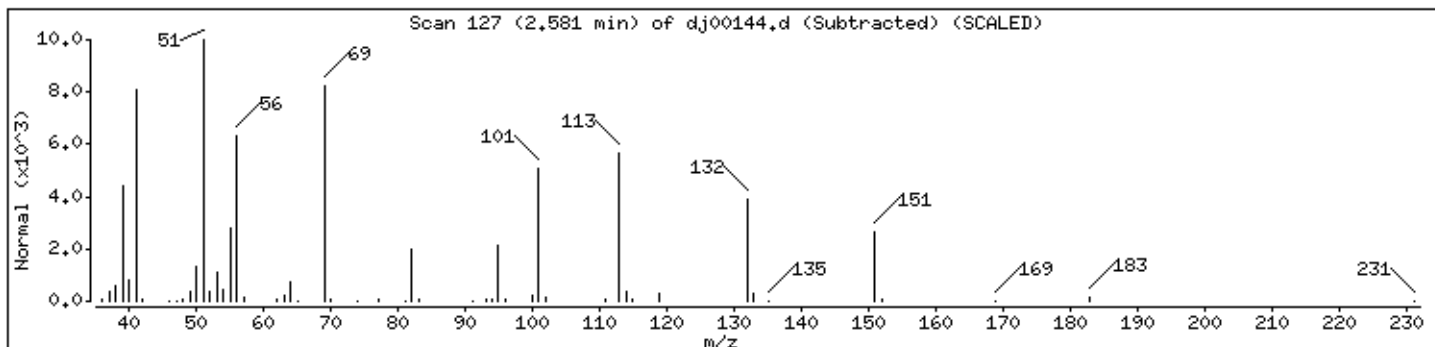
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

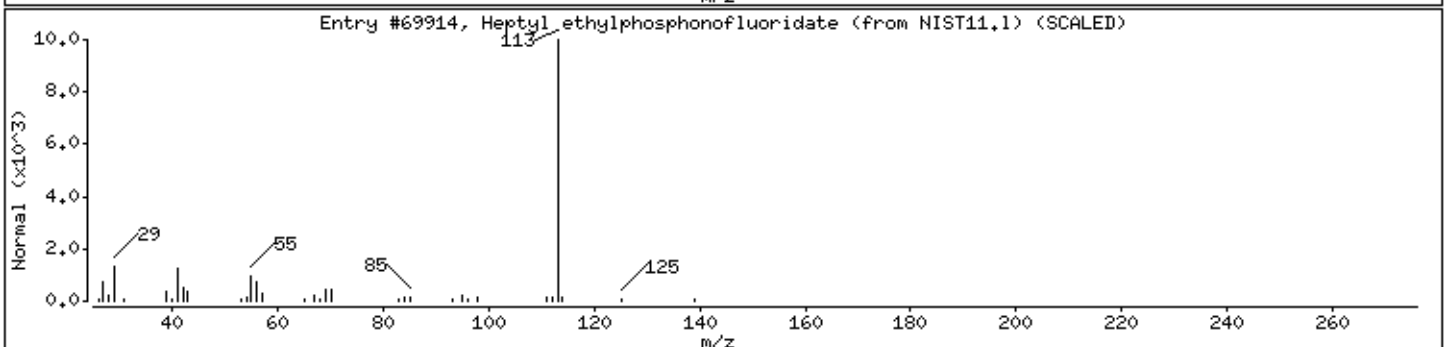
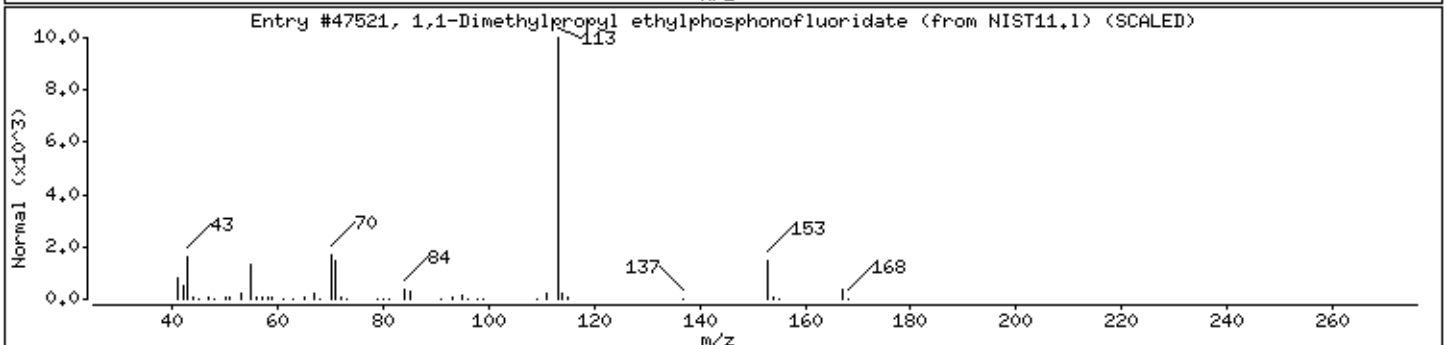
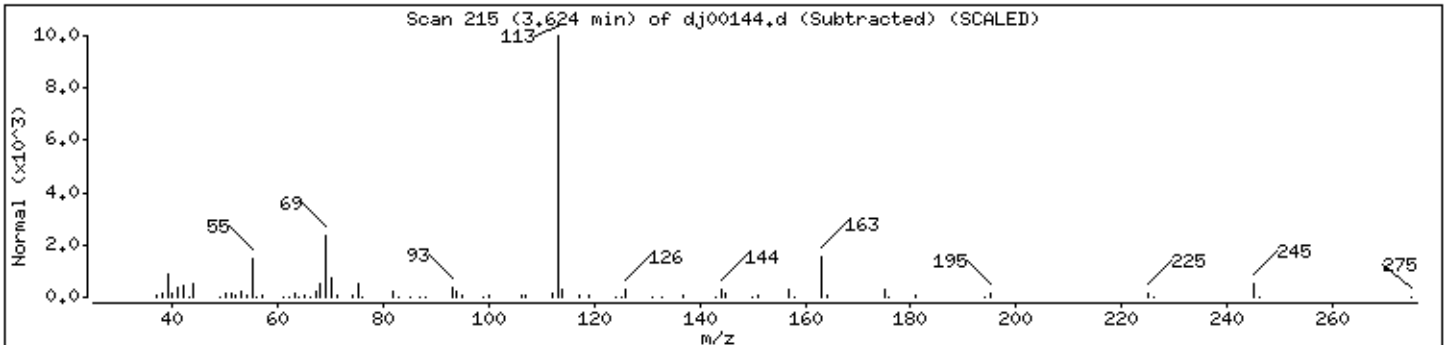
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,1-Dimethylpropyl ethylphosphonofluorid	1000298-34-3	NIST11.1	47521	36	C7H16F02P	182
Heptyl ethylphosphonofluoridate	162085-85-0	NIST11.1	69914	36	C9H20F02P	210



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

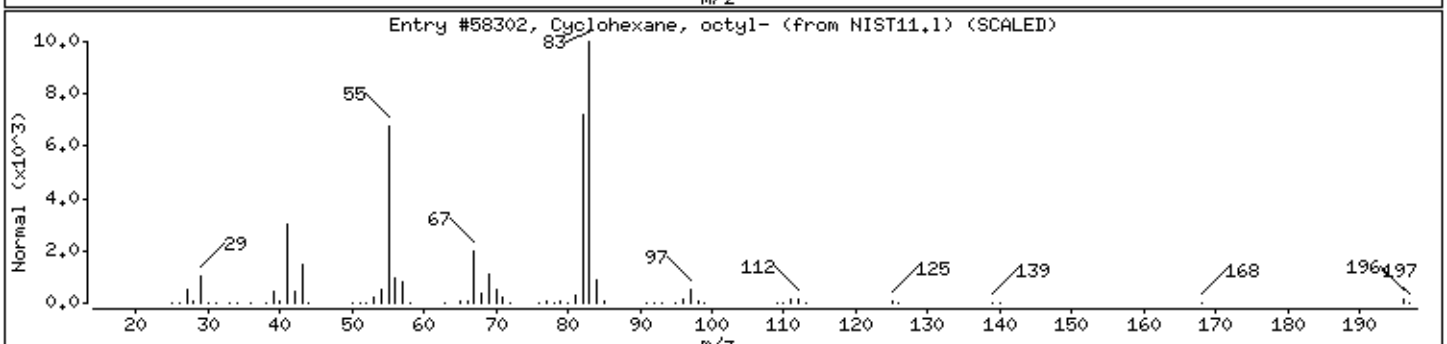
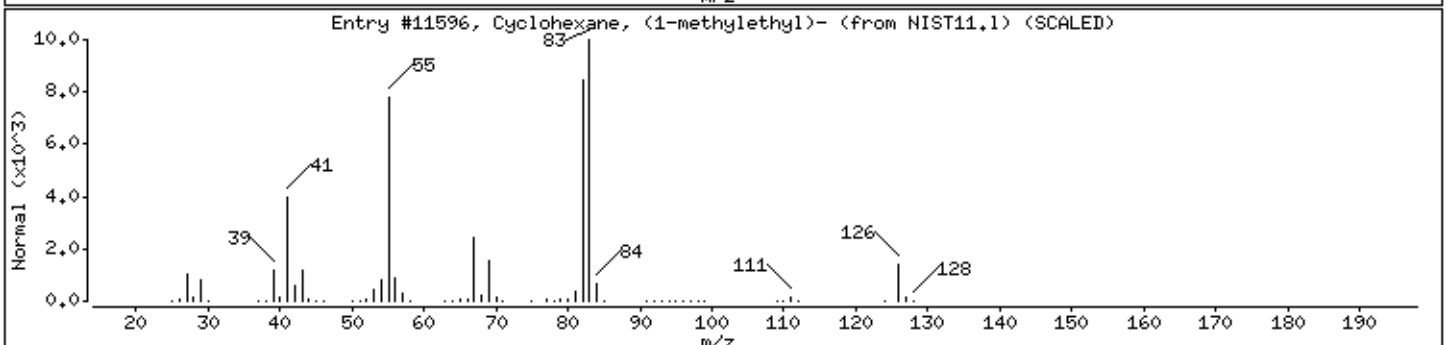
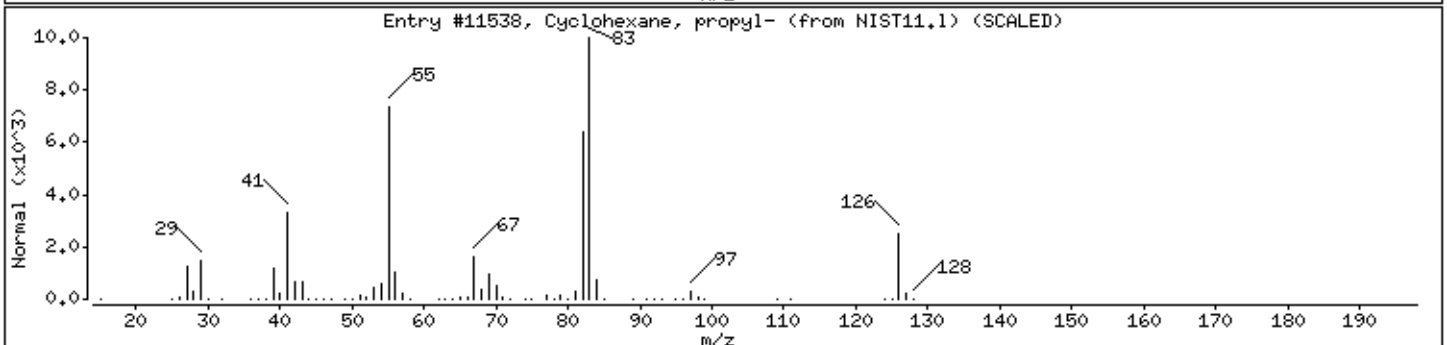
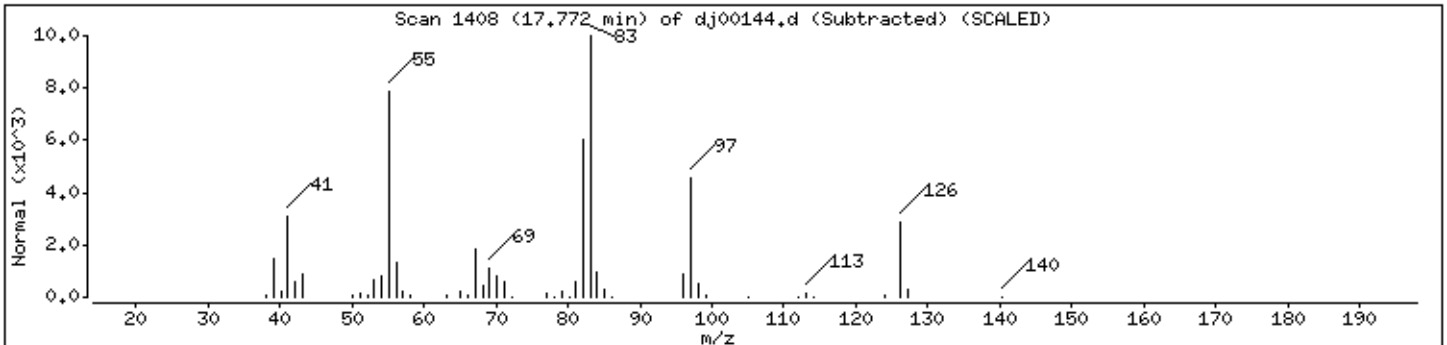
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, propyl-	1678-92-8	NIST11.1	11538	94	C9H18	126
Cyclohexane, (1-methylethyl)-	696-29-7	NIST11.1	11596	64	C9H18	126
Cyclohexane, octyl-	1795-15-9	NIST11.1	58302	53	C14H28	196



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

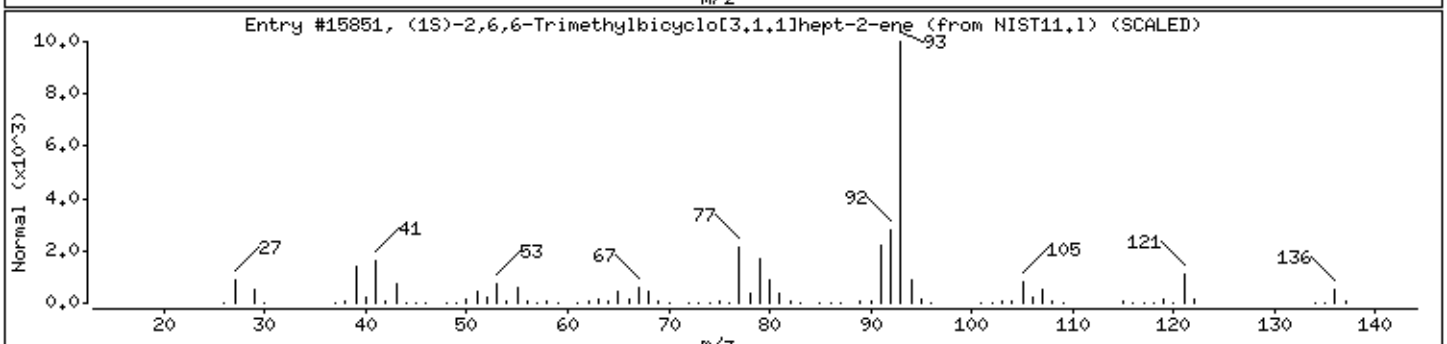
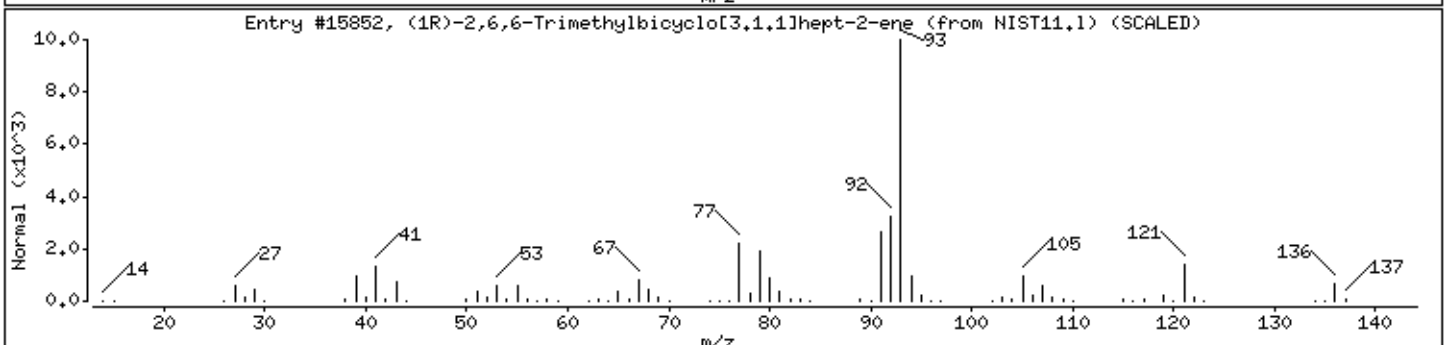
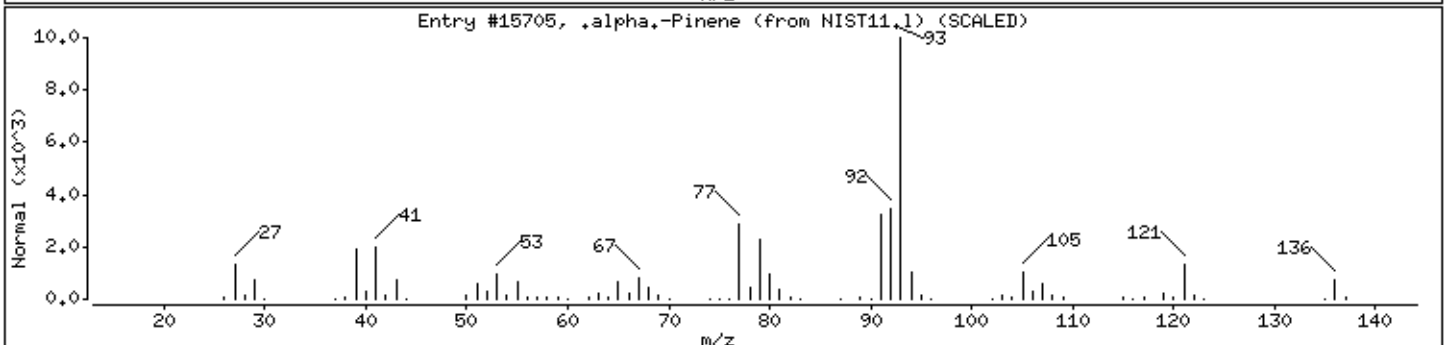
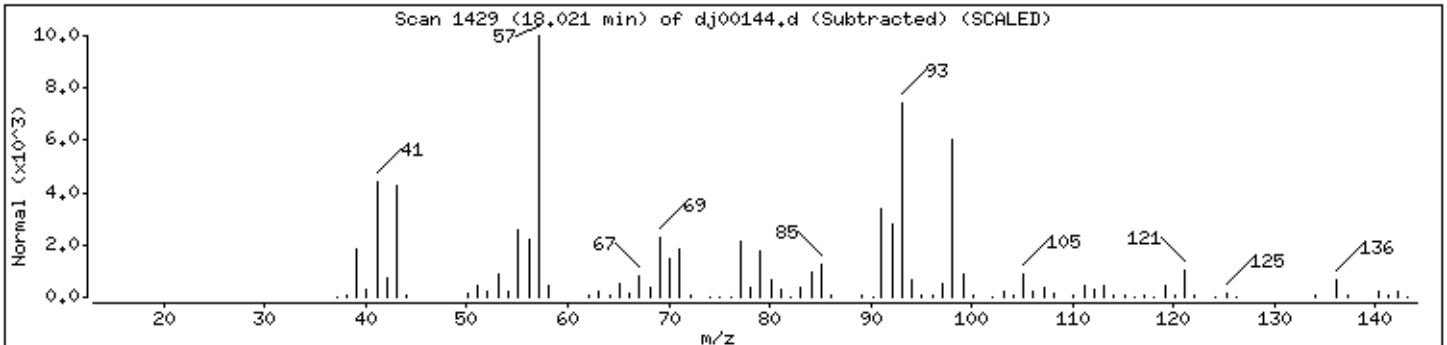
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
.alpha.-Pinene	80-56-8	NIST11.1	15705	91	C10H16	136
(1R)-2,6,6-Trimethylbicyclo[3,1,1]hept-2	7785-70-8	NIST11.1	15852	90	C10H16	136
(1S)-2,6,6-Trimethylbicyclo[3,1,1]hept-2	7785-26-4	NIST11.1	15851	90	C10H16	136



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

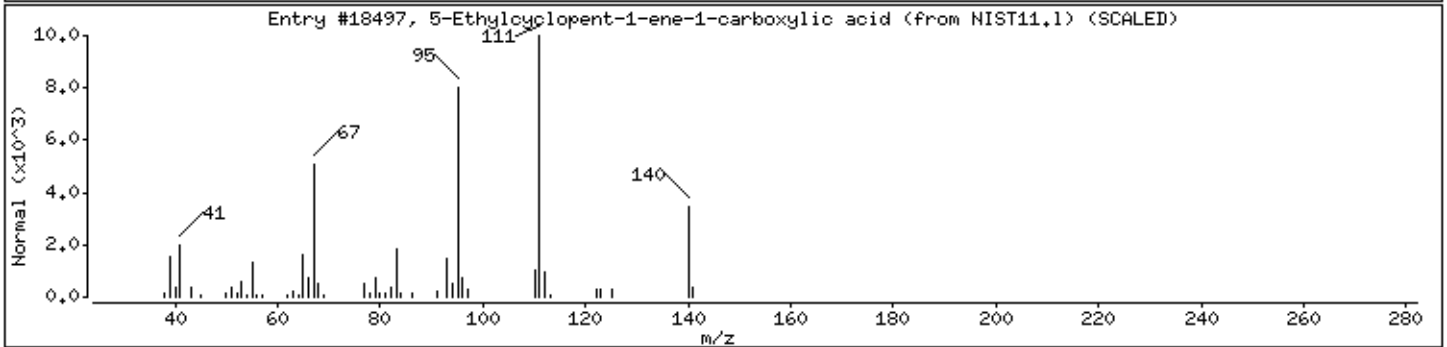
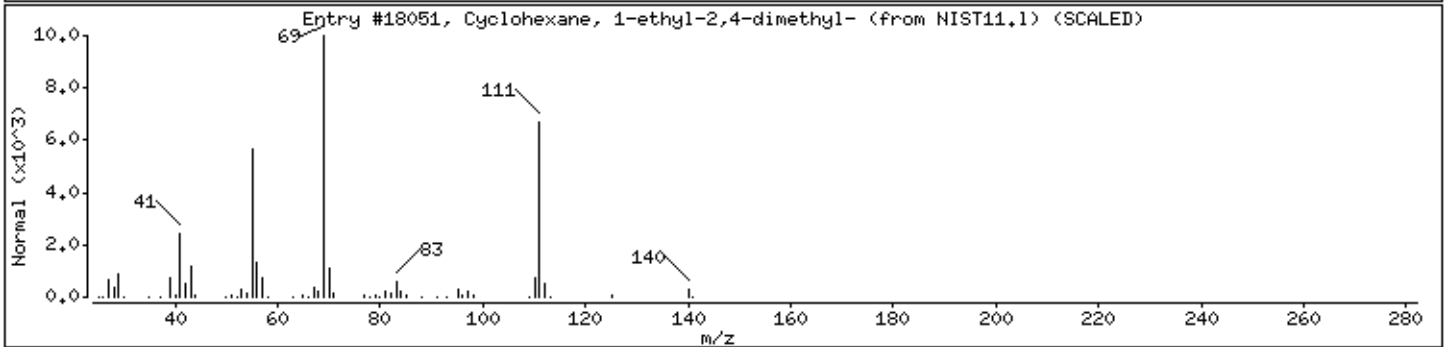
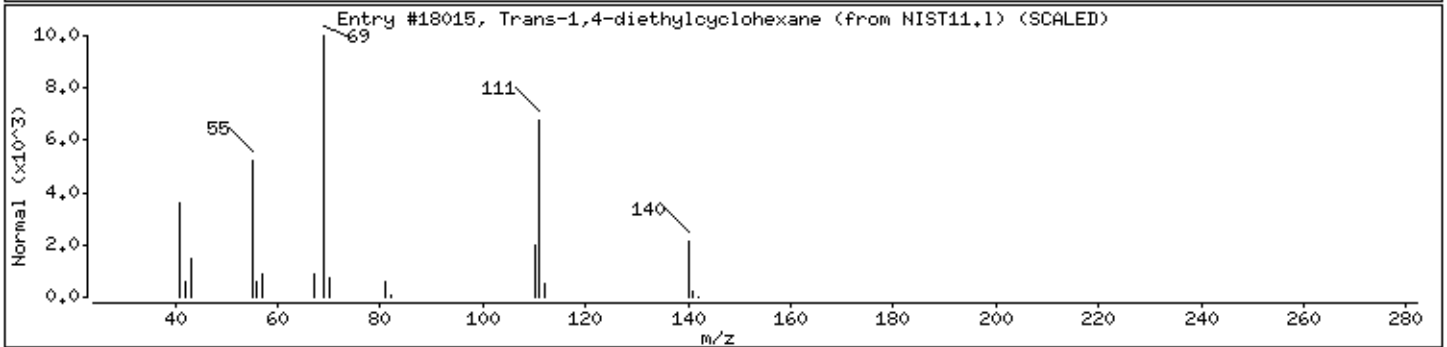
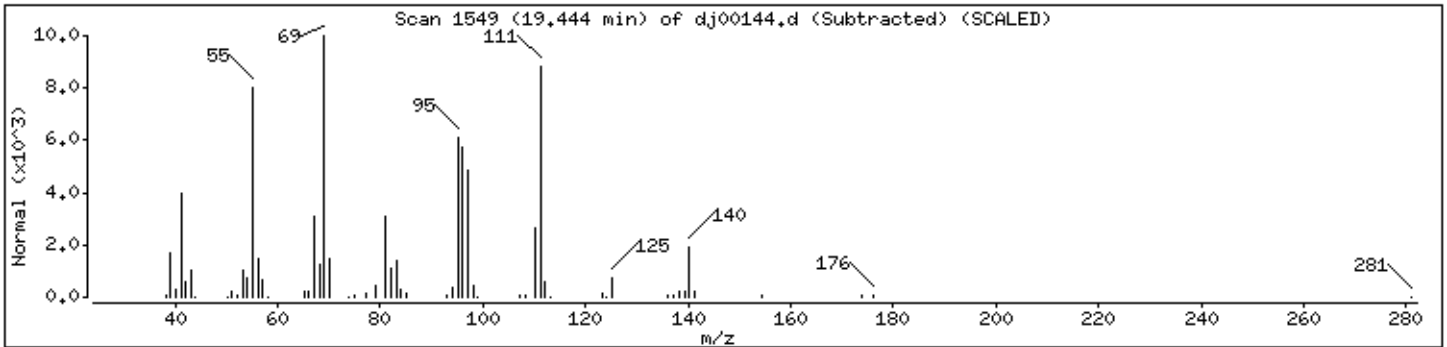
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Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Trans-1,4-diethylcyclohexane	13990-93-7	NIST11.1	18015	46	C10H20	140
Cyclohexane, 1-ethyl-2,4-dimethyl-	61142-69-6	NIST11.1	18051	38	C10H20	140
5-Ethylcyclopent-1-ene-1-carboxylic acid	36258-07-8	NIST11.1	18497	30	C8H12O2	140



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

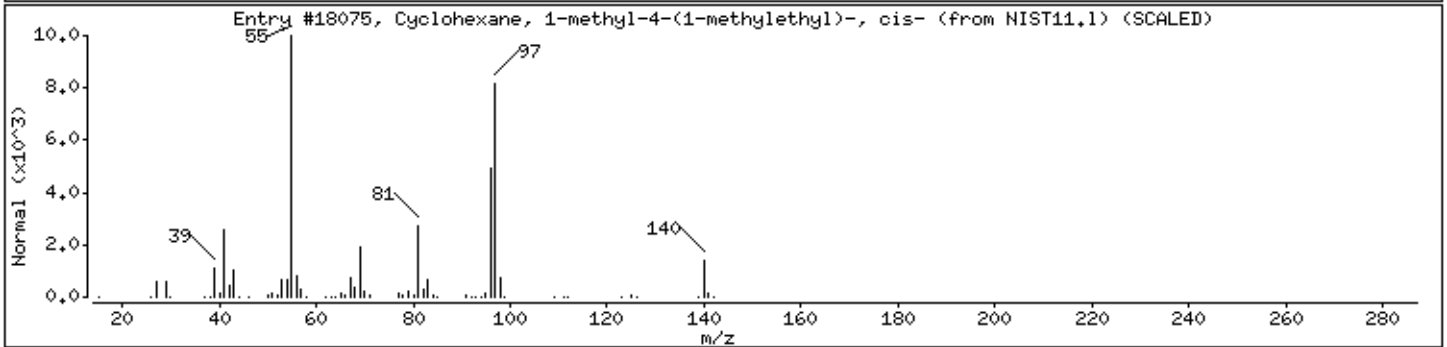
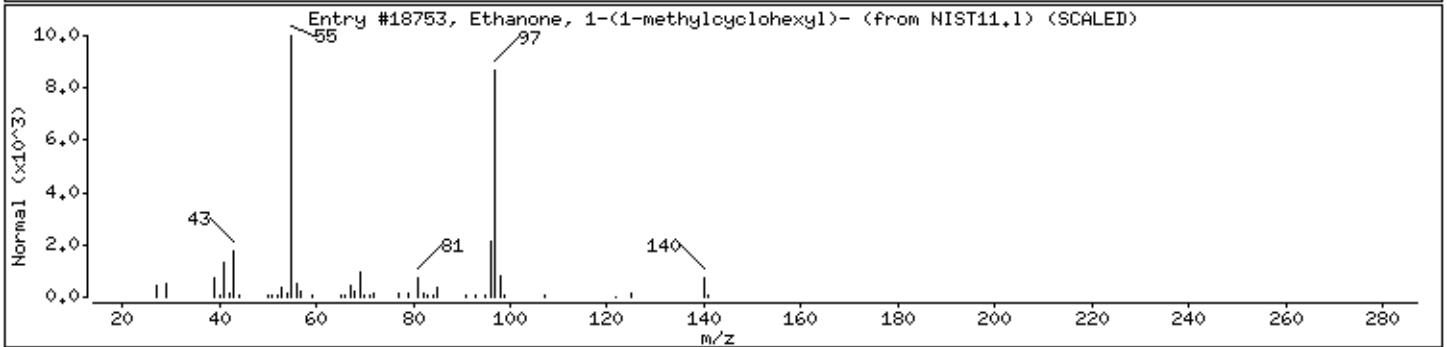
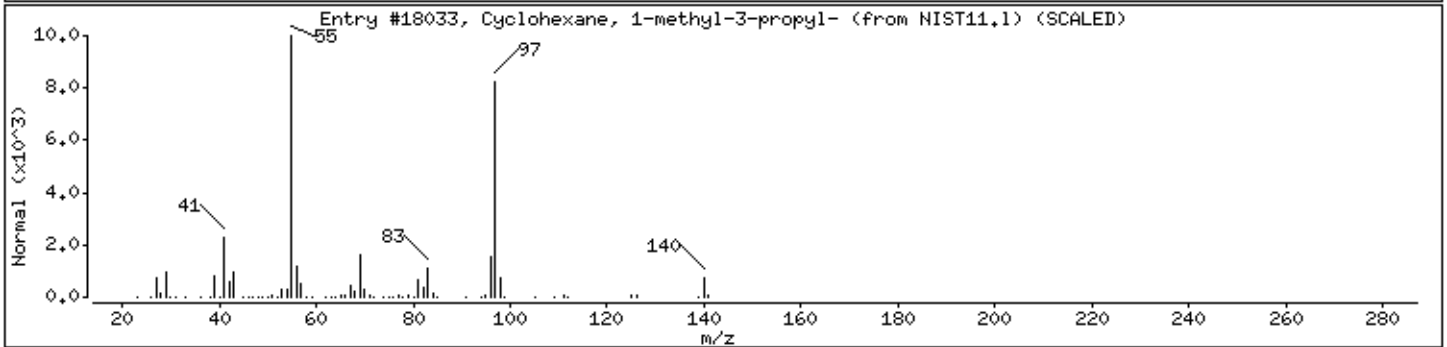
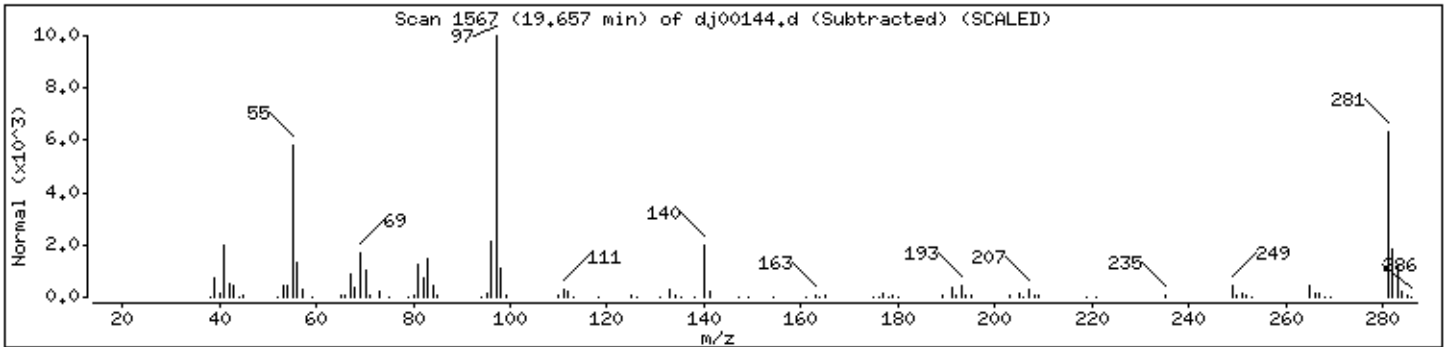
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Cycloalkane						
Cyclohexane, 1-methyl-3-propyl-	4291-80-9	NIST11.1	18033	64	C10H20	140
Ethanone, 1-(1-methylcyclohexyl)-	2890-62-2	NIST11.1	18753	50	C9H16O	140
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NIST11.1	18075	49	C10H20	140



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Client ID: SVMP3

Instrument: HP10145.i

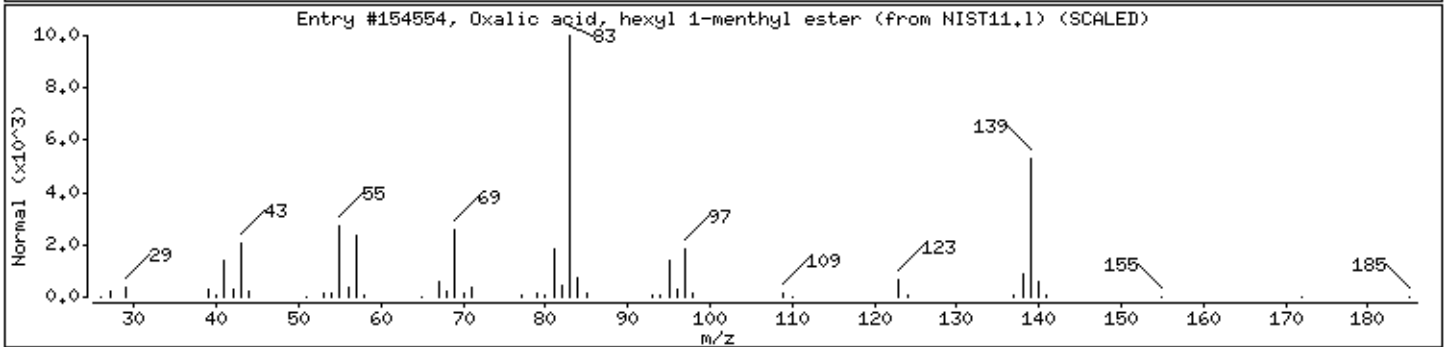
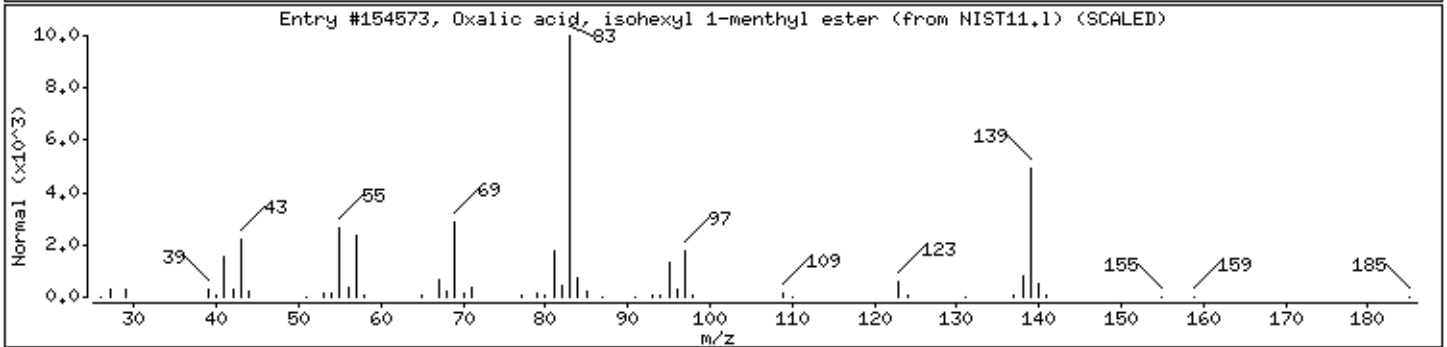
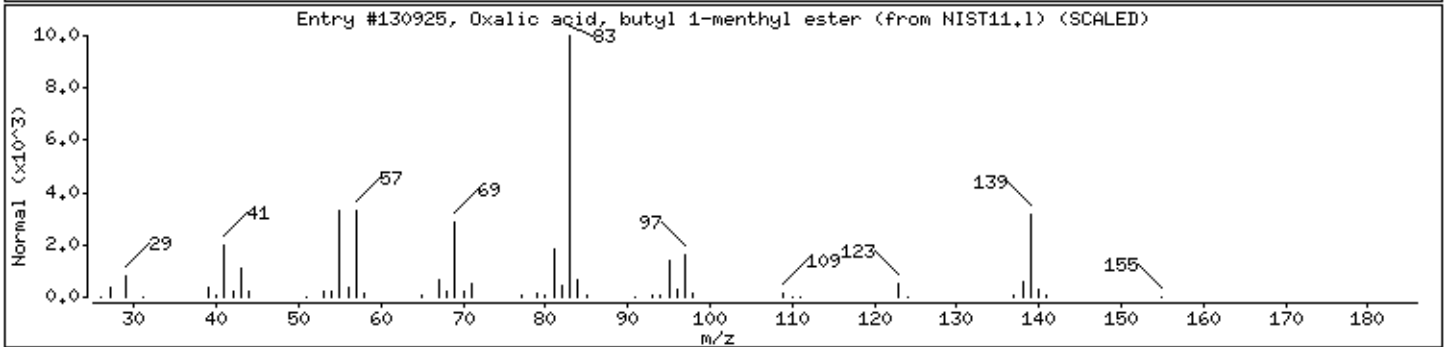
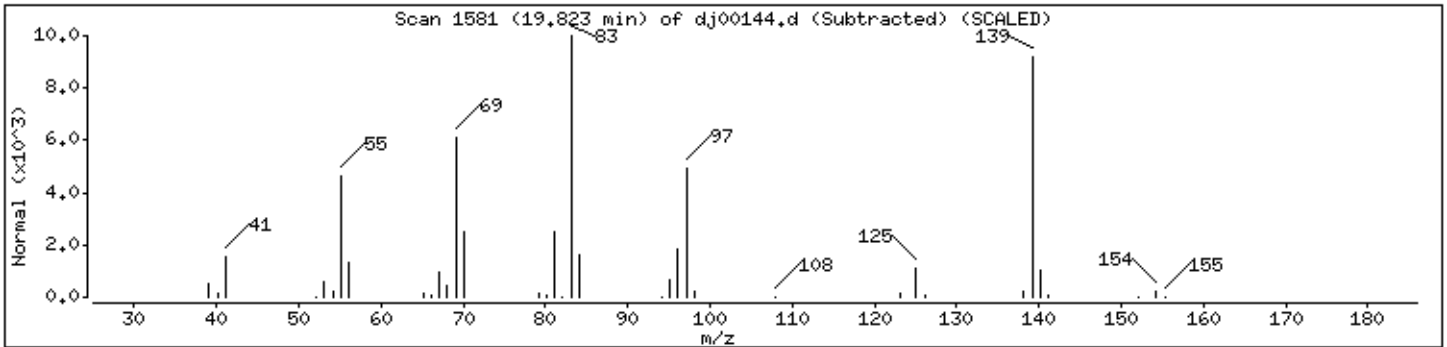
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Organic Acid						
Oxalic acid, butyl 1-menthyl ester	1000314-97-2	NIST11.1	130925	59	C16H28O4	284
Oxalic acid, isohexyl 1-menthyl ester	1000314-98-7	NIST11.1	154573	53	C18H32O4	312
Oxalic acid, hexyl 1-menthyl ester	1000314-97-4	NIST11.1	154554	53	C18H32O4	312



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

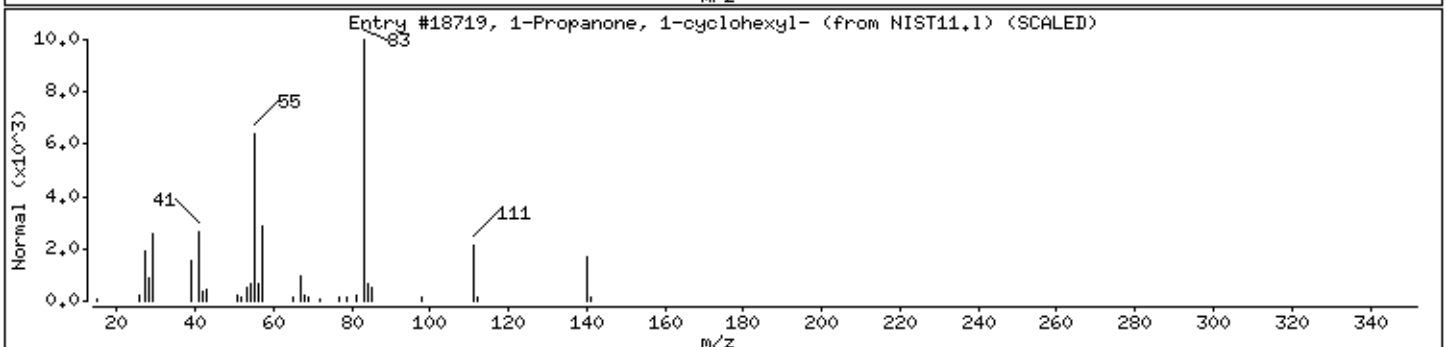
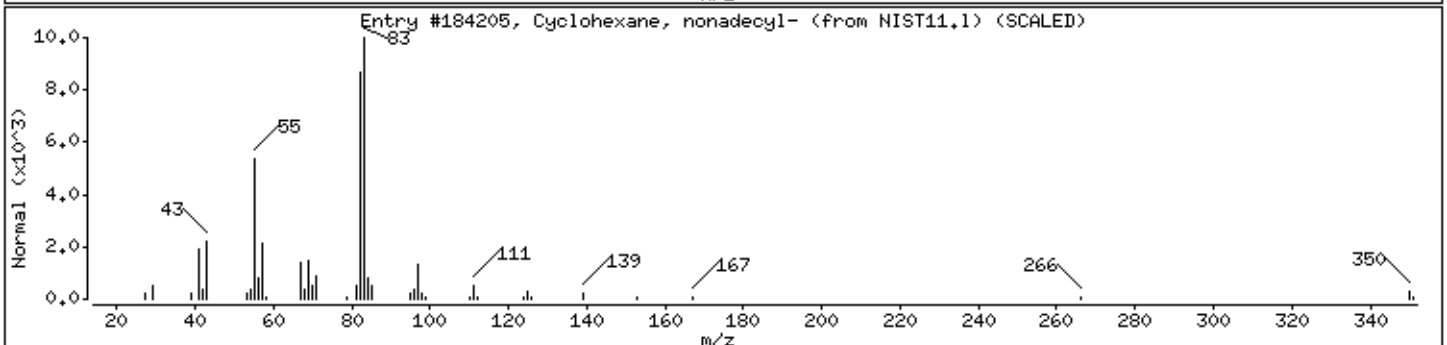
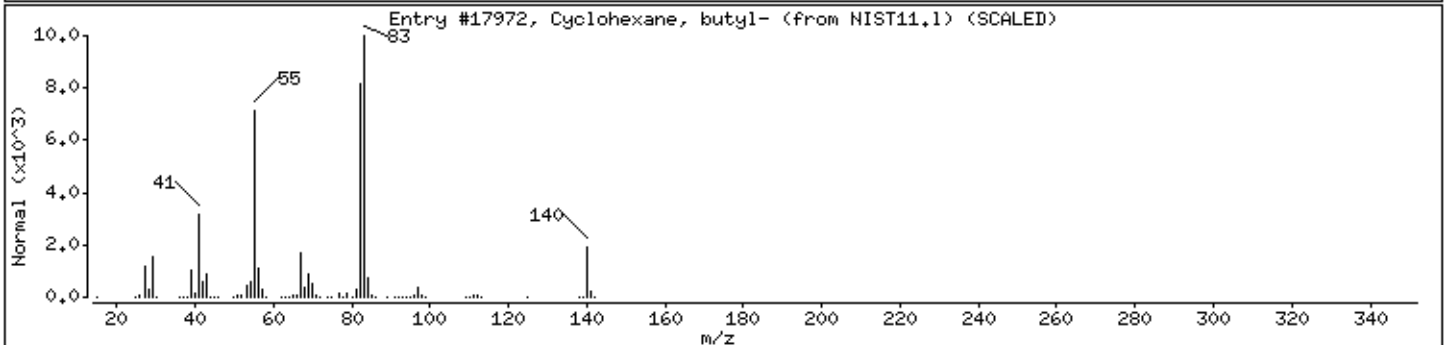
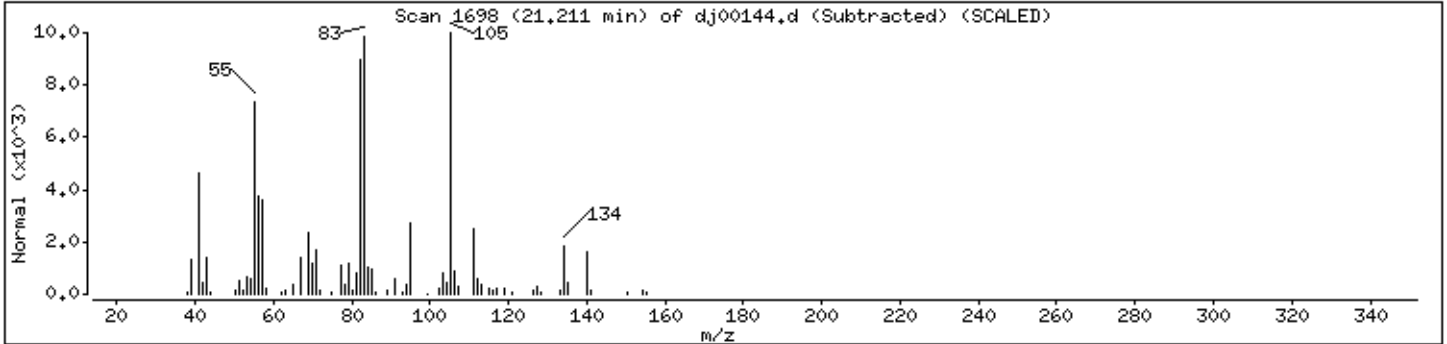
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Cycloalkane						
Cyclohexane, butyl-	1678-93-9	NIST11.1	17972	58	C10H20	140
Cyclohexane, nonadecyl-	22349-03-7	NIST11.1	184205	53	C25H50	350
1-Propanone, 1-cyclohexyl-	1123-86-0	NIST11.1	18719	46	C9H16O	140



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

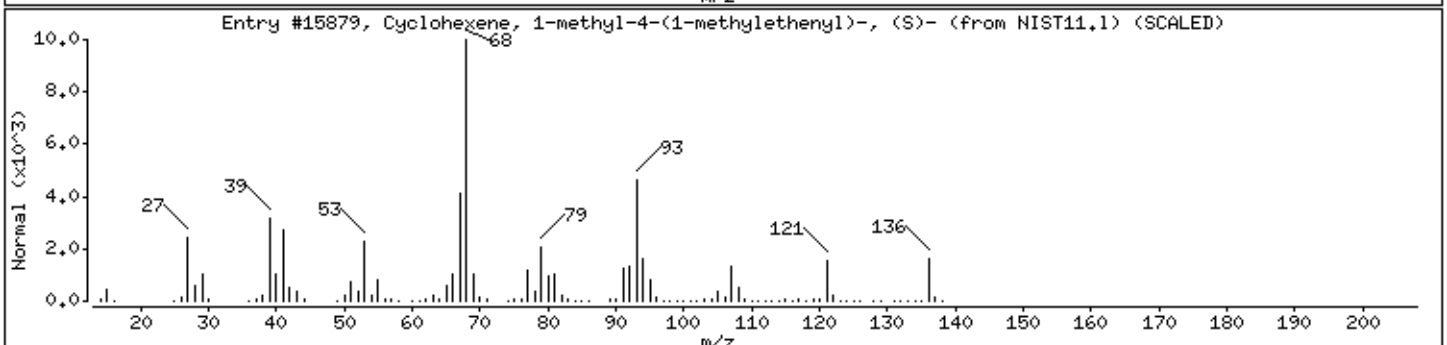
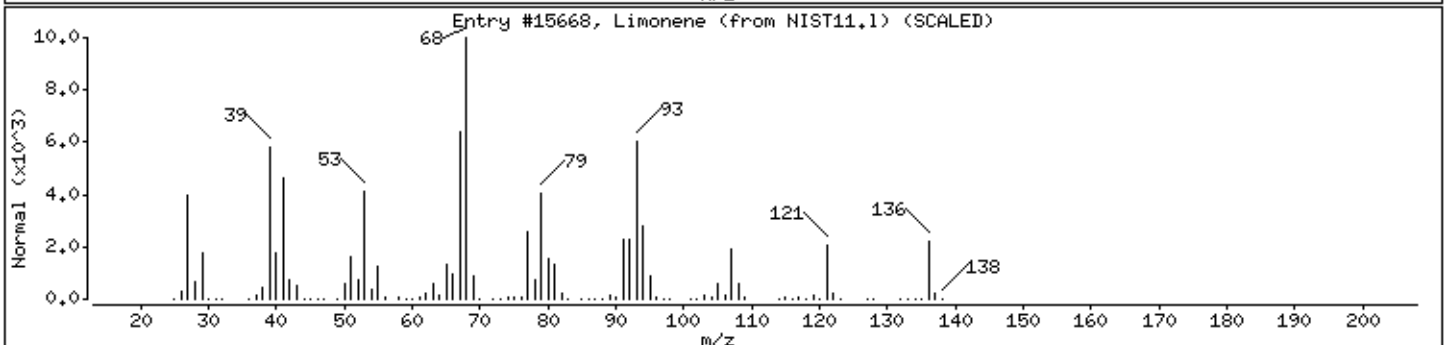
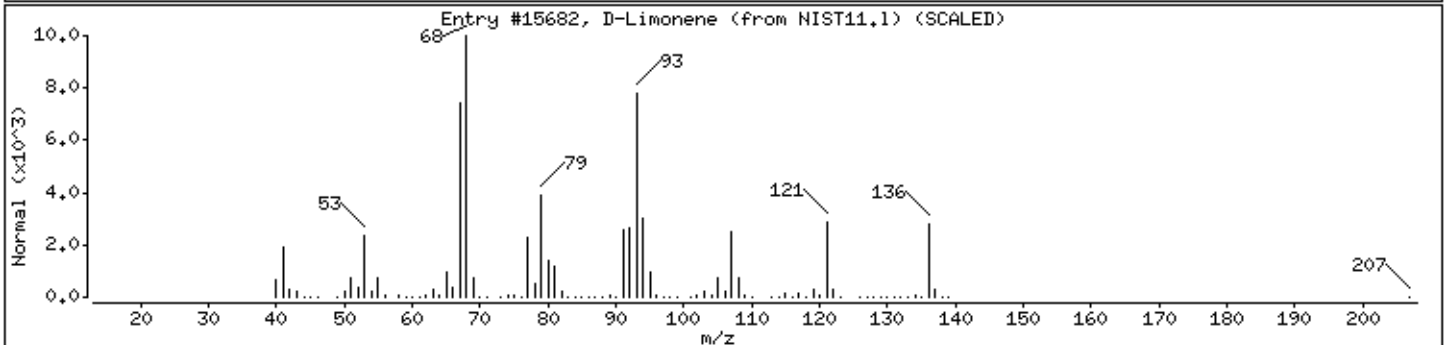
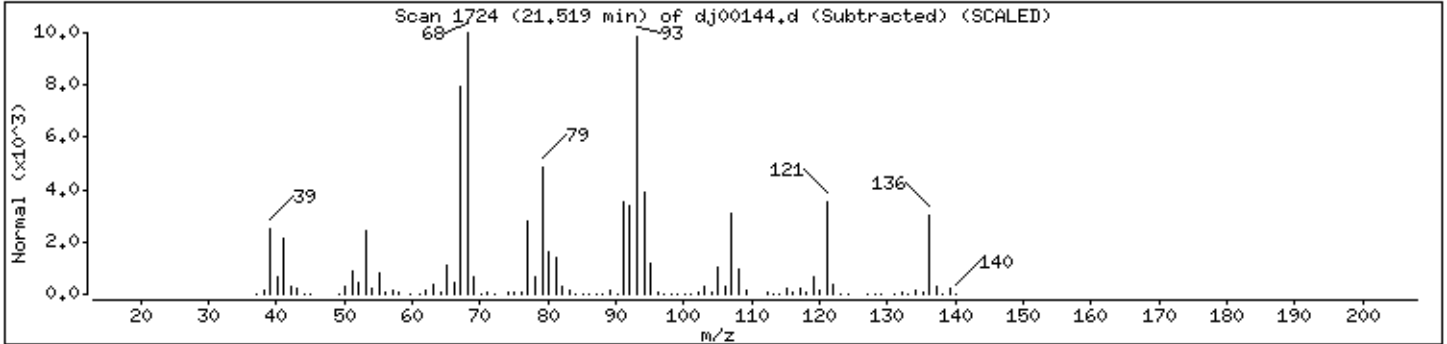
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
D-Limonene	5989-27-5	NIST11.1	15682	99	C10H16	136
Limonene	138-86-3	NIST11.1	15668	94	C10H16	136
Cyclohexene, 1-methyl-4-(1-methylethenyl)	5989-54-8	NIST11.1	15879	89	C10H16	136



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

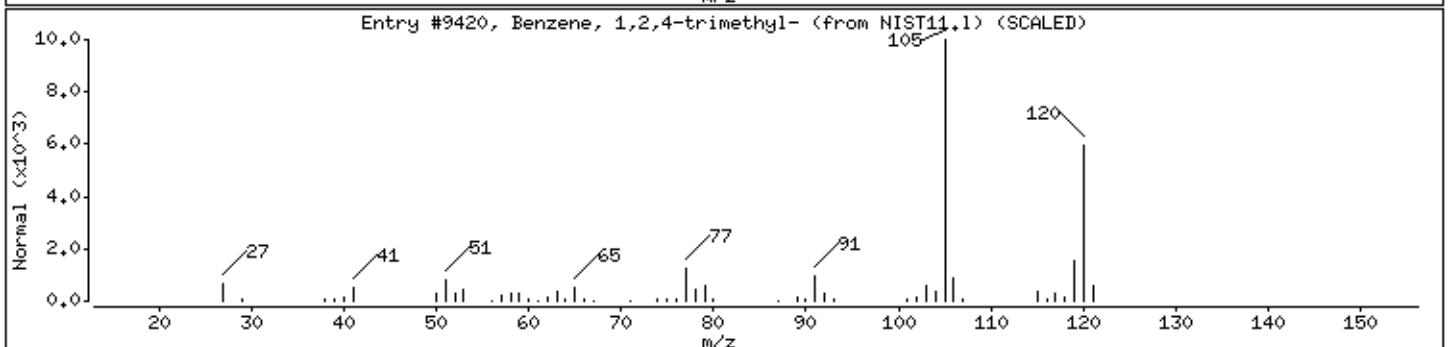
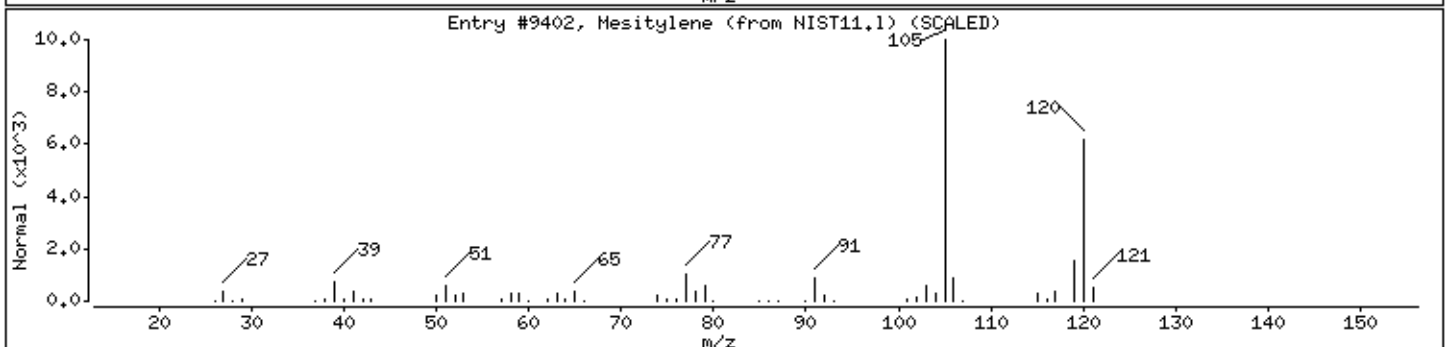
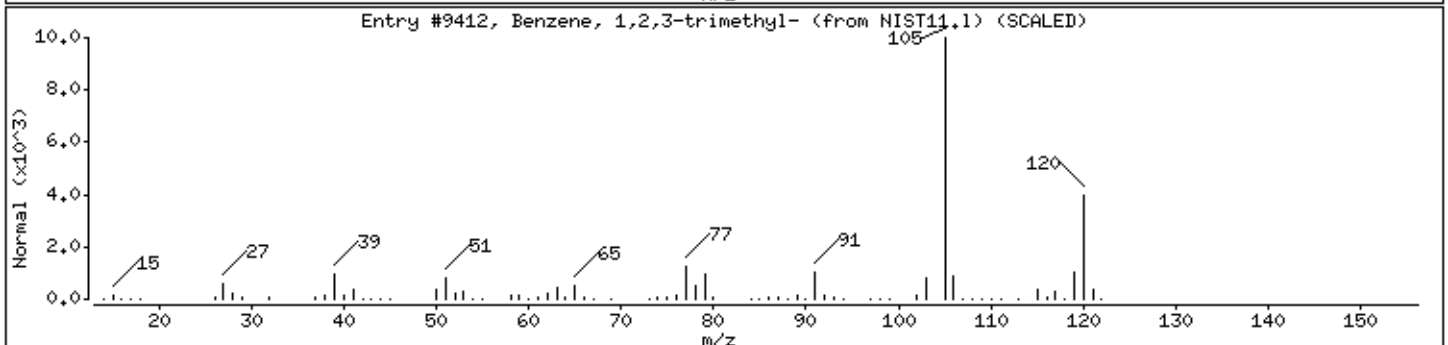
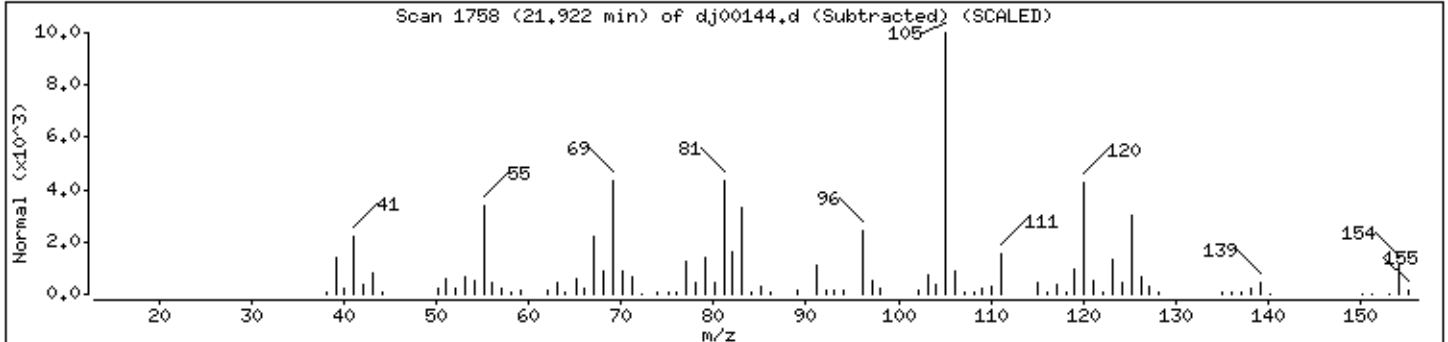
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-Alkylbenzene						
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11.1	9412	78	C9H12	120
Mesitylene	108-67-8	NIST11.1	9402	70	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11.1	9420	60	C9H12	120



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

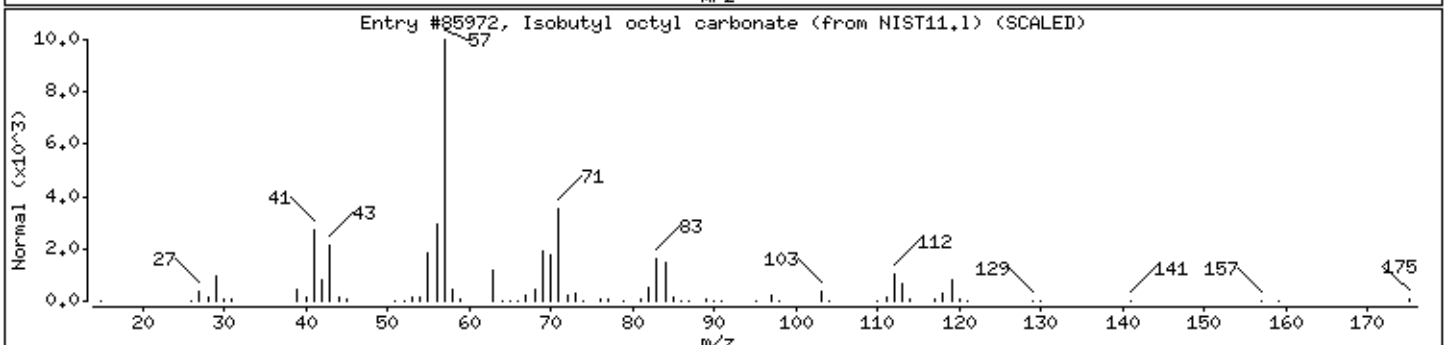
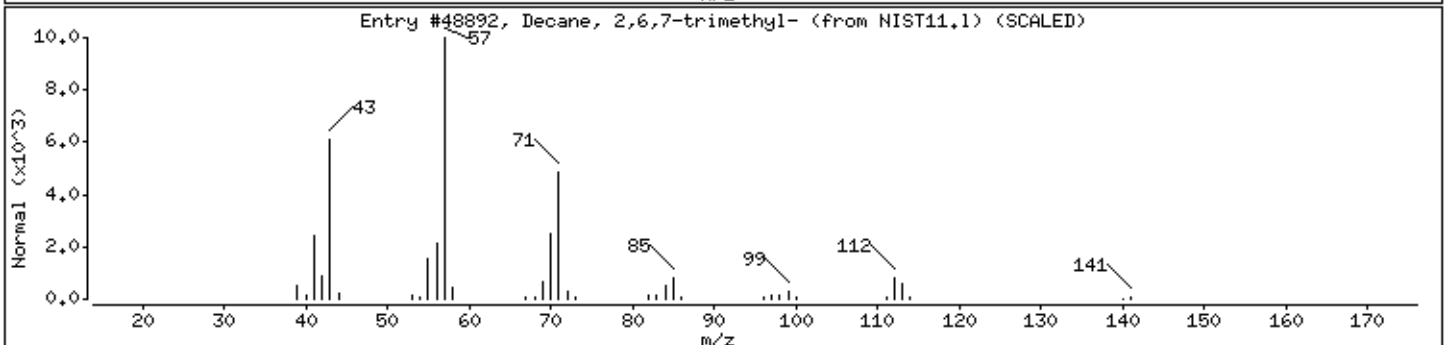
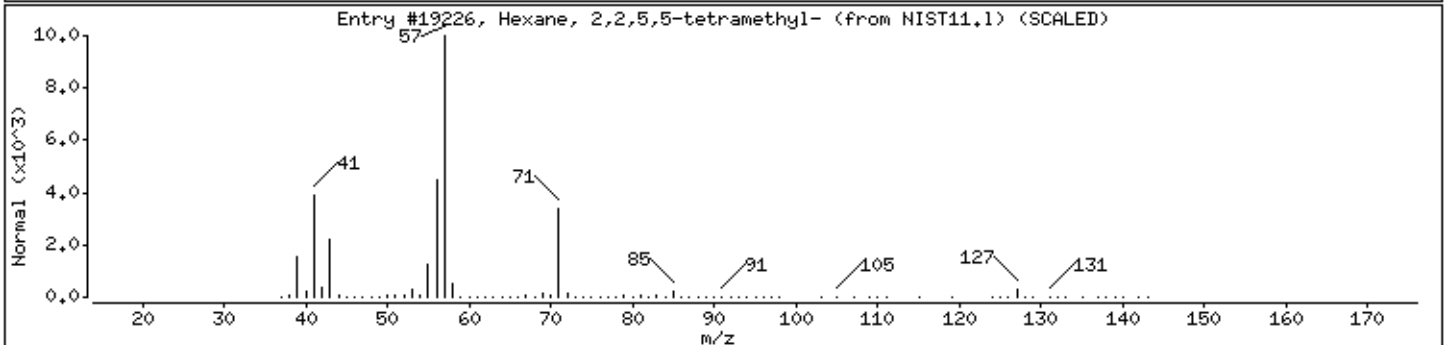
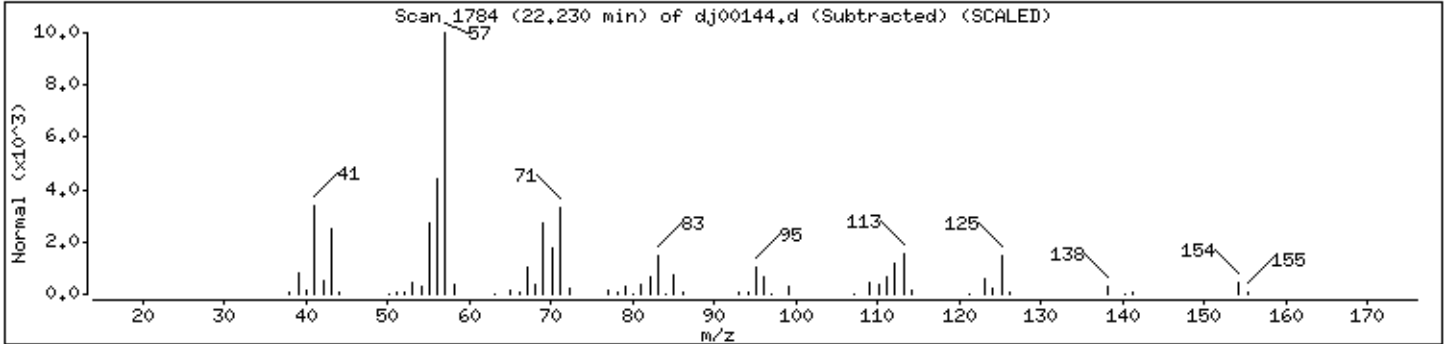
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Alkane						
Hexane, 2,2,5,5-tetramethyl-	1071-81-4	NIST11.1	19226	47	C10H22	142
Decane, 2,6,7-trimethyl-	62108-25-2	NIST11.1	48892	47	C13H28	184
Isobutyl octyl carbonate	1000372-74-6	NIST11.1	85972	43	C13H26O3	230



Date : 08-OCT-2015 01:31

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Instrument: HP10145.i

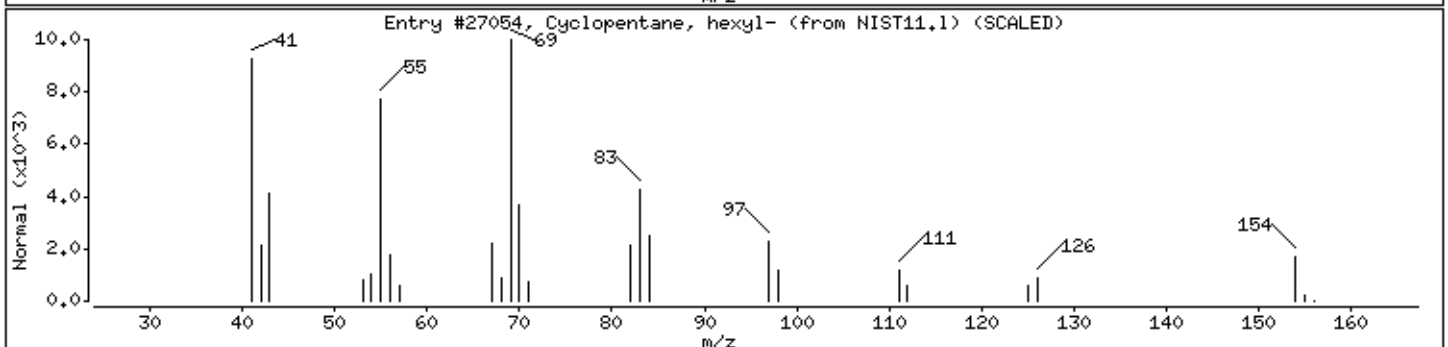
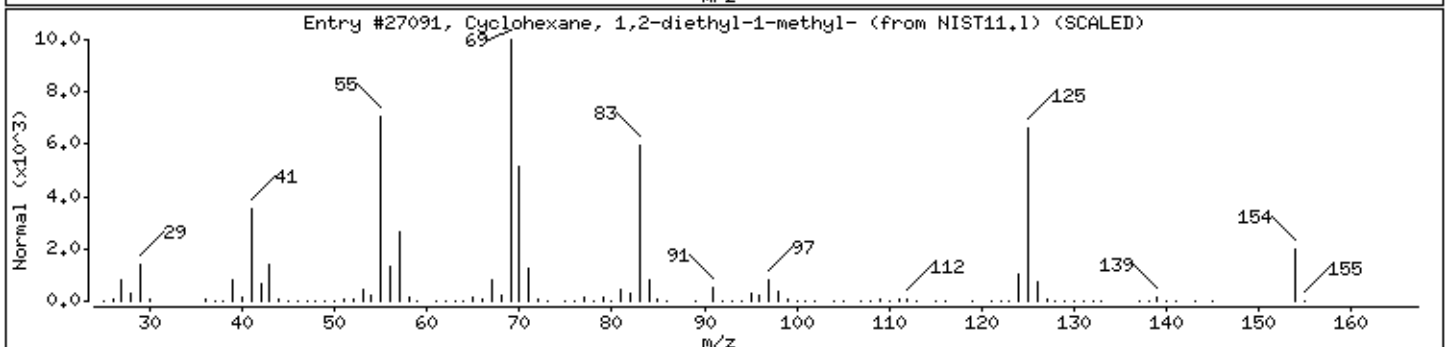
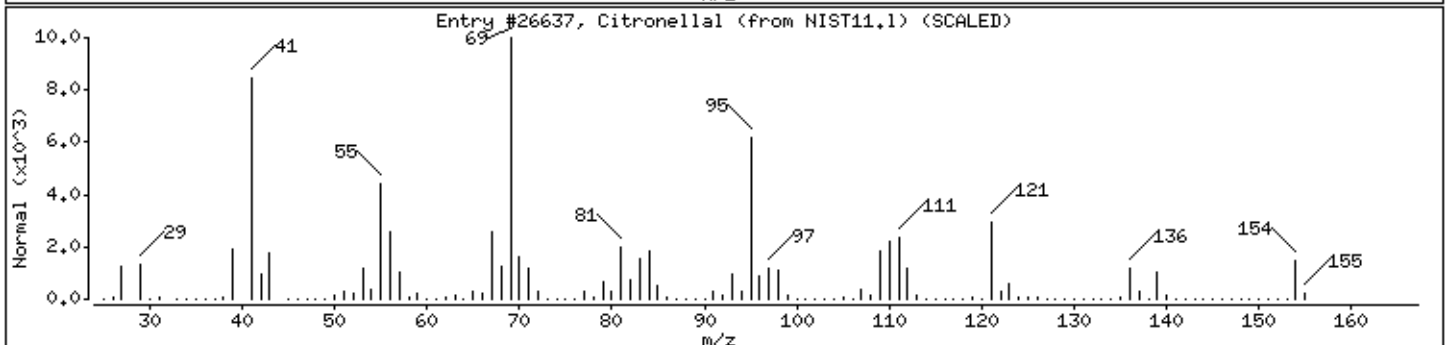
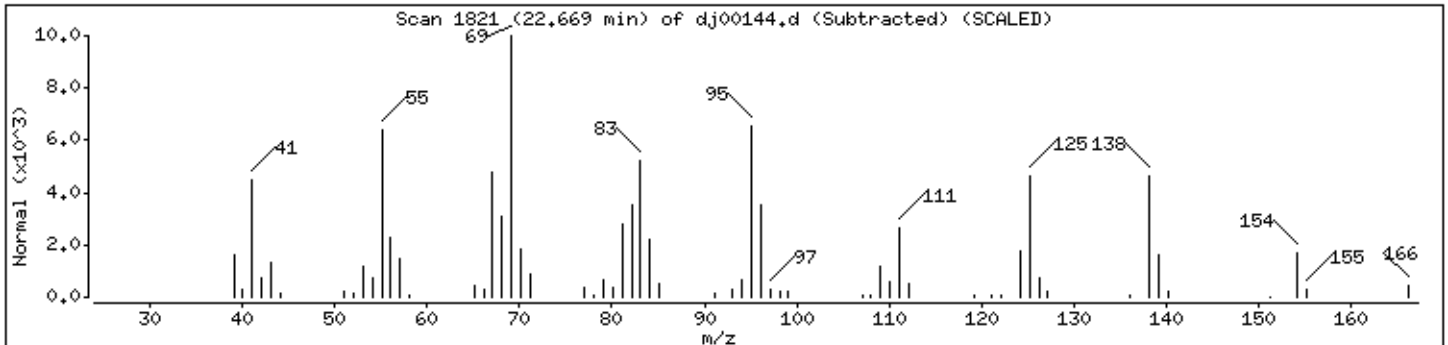
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Citronellal	106-23-0	NIST11.1	26637	49	C10H18O	154
Cyclohexane, 1,2-diethyl-1-methyl-	61141-79-5	NIST11.1	27091	45	C11H22	154
Cyclopentane, hexyl-	4457-00-5	NIST11.1	27054	43	C11H22	154



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

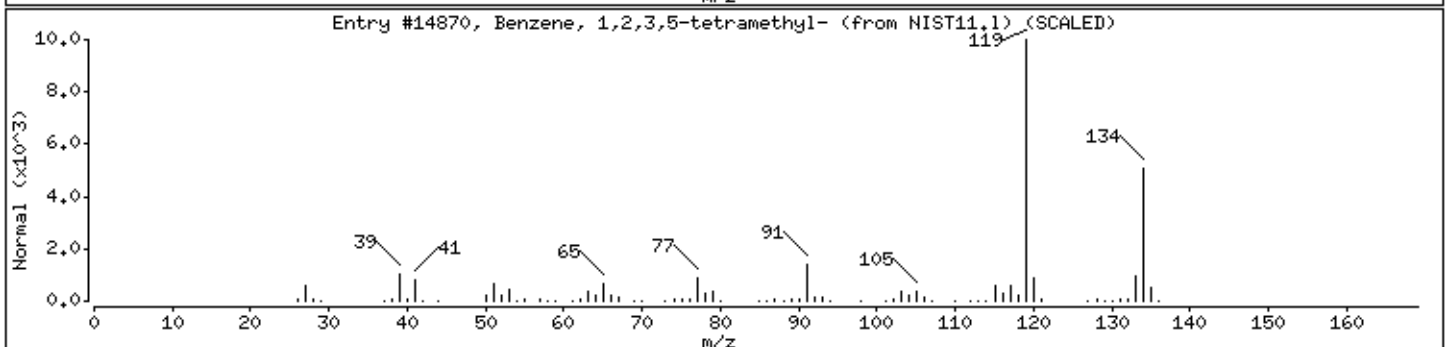
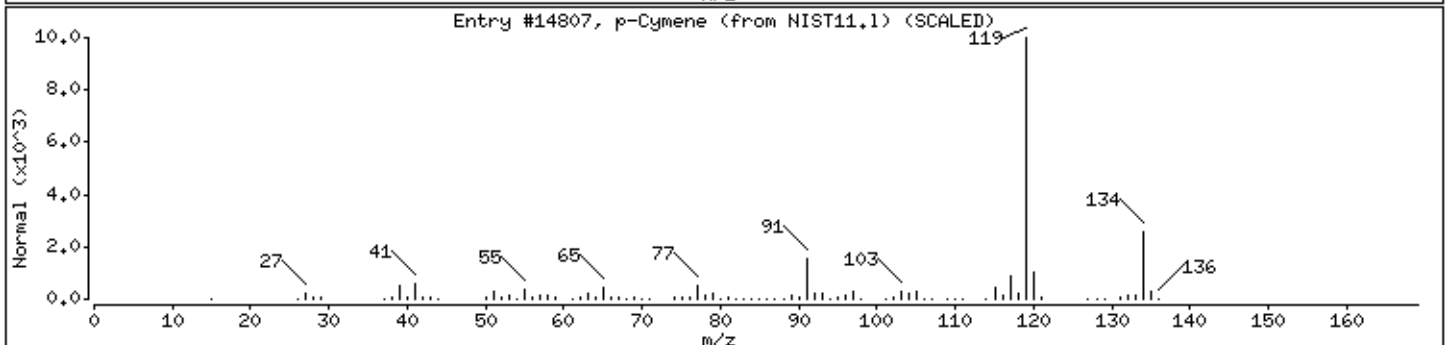
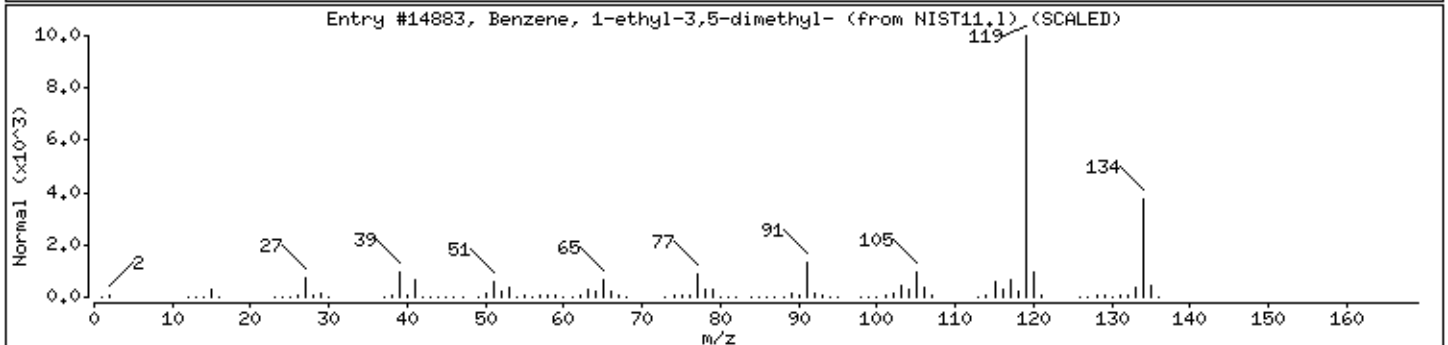
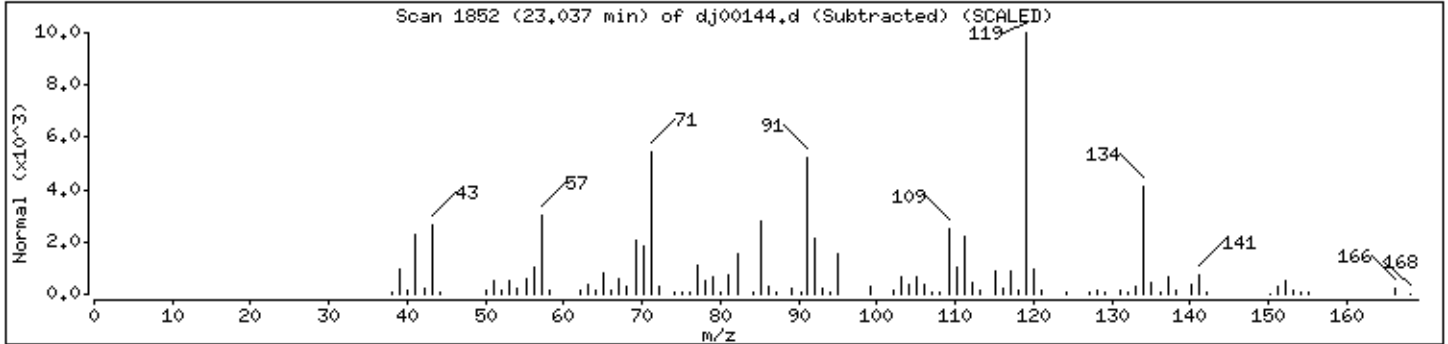
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-Alkylbenzene						
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NIST11.1	14883	86	C10H14	134
p-Cymene	99-87-6	NIST11.1	14807	83	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11.1	14870	64	C10H14	134



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

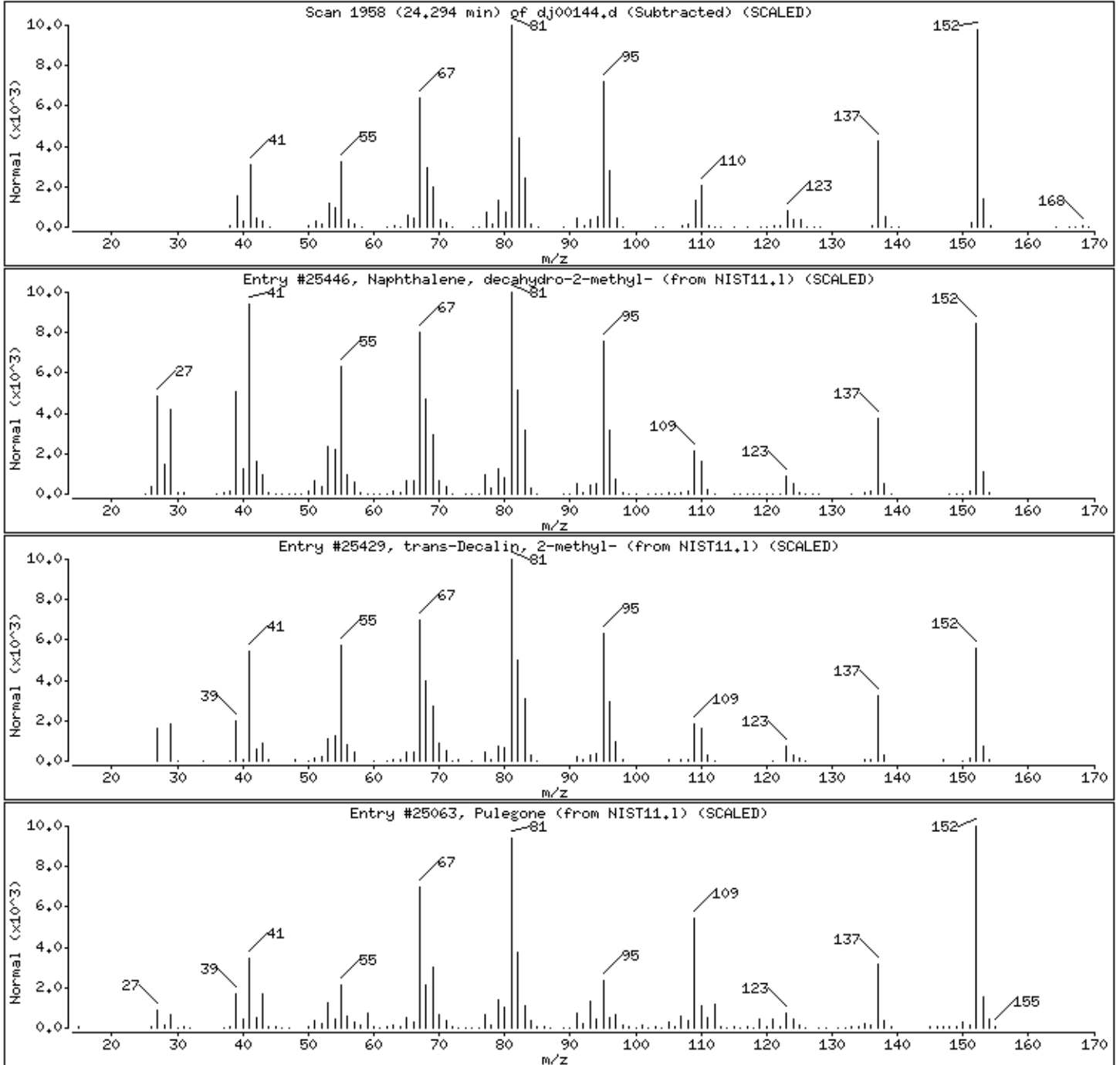
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Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11.1	25446	94	C11H20	152
trans-Decalin, 2-methyl-	1000152-47-3	NIST11.1	25429	94	C11H20	152
Pulegone	89-82-7	NIST11.1	25063	87	C10H16O	152



Date : 08-OCT-2015 01:31

Client ID: SVMP3

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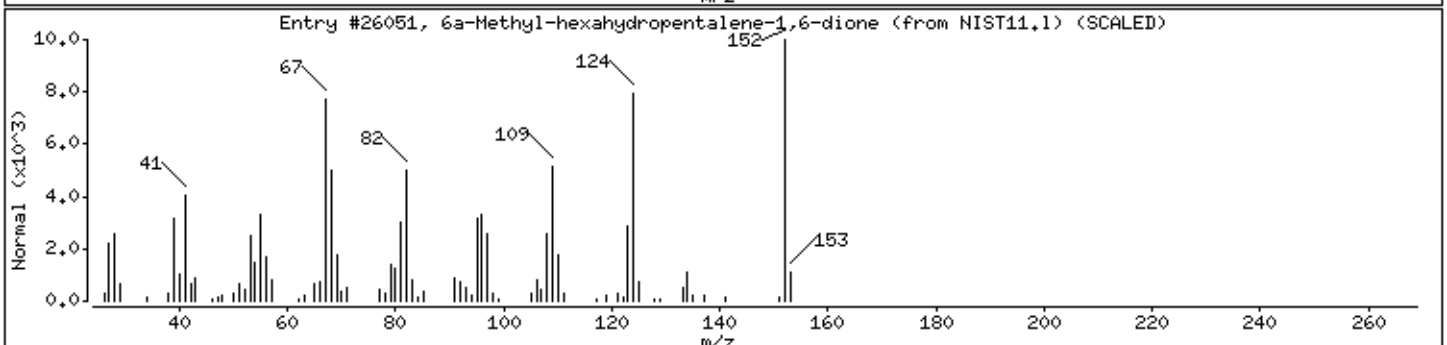
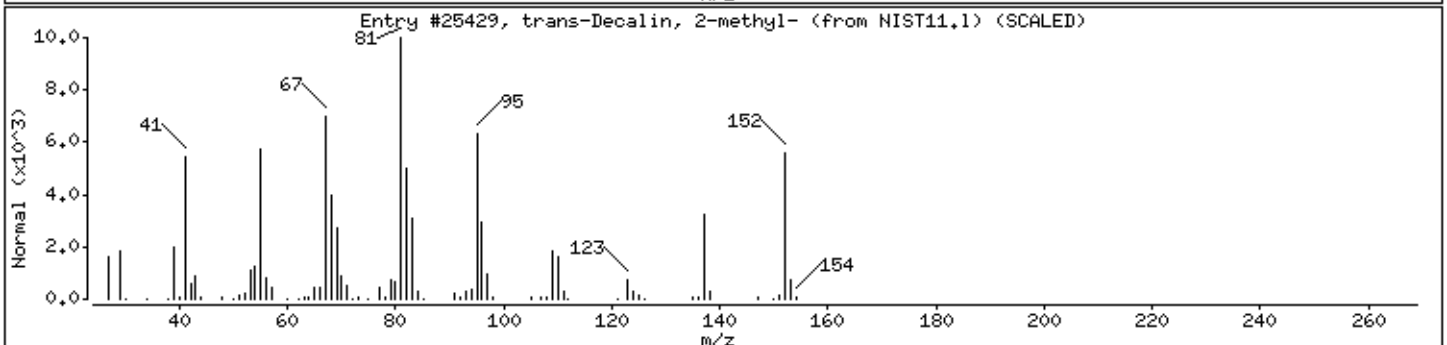
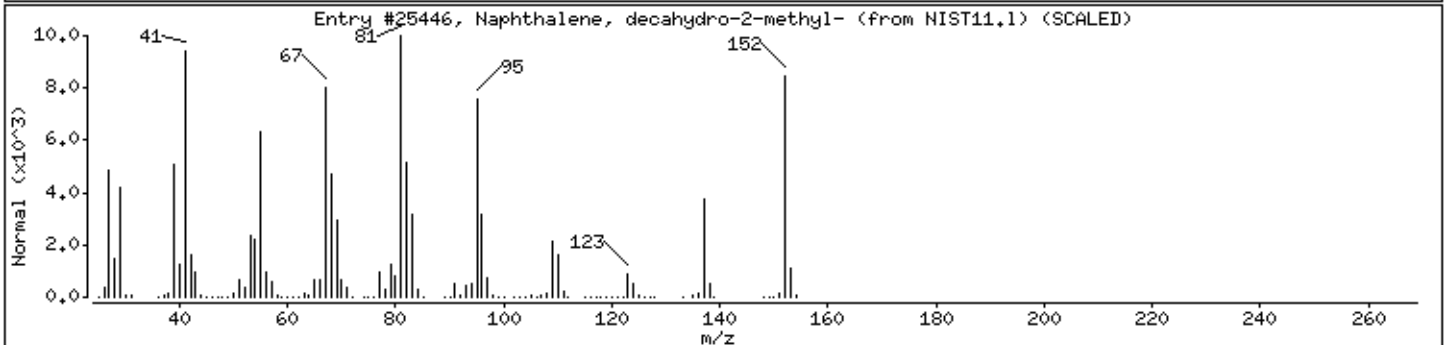
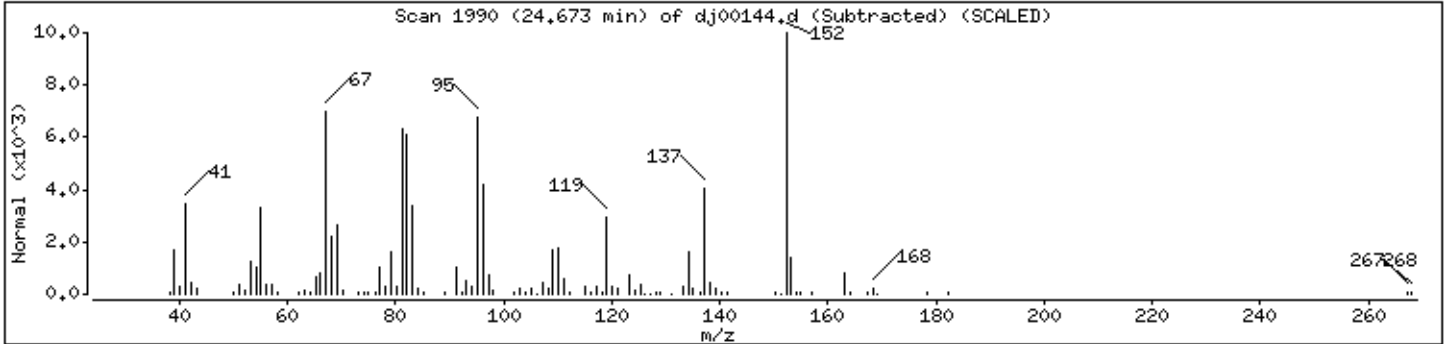
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Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11.1	25446	83	C11H20	152
trans-Decalin, 2-methyl-	1000152-47-3	NIST11.1	25429	76	C11H20	152
6a-Methyl-hexahydropentalene-1,6-dione	92485-86-4	NIST11.1	26051	64	C9H12O2	152



Date : 08-OCT-2015 01:31

Client ID: SVMP3

Instrument: HP10145.i

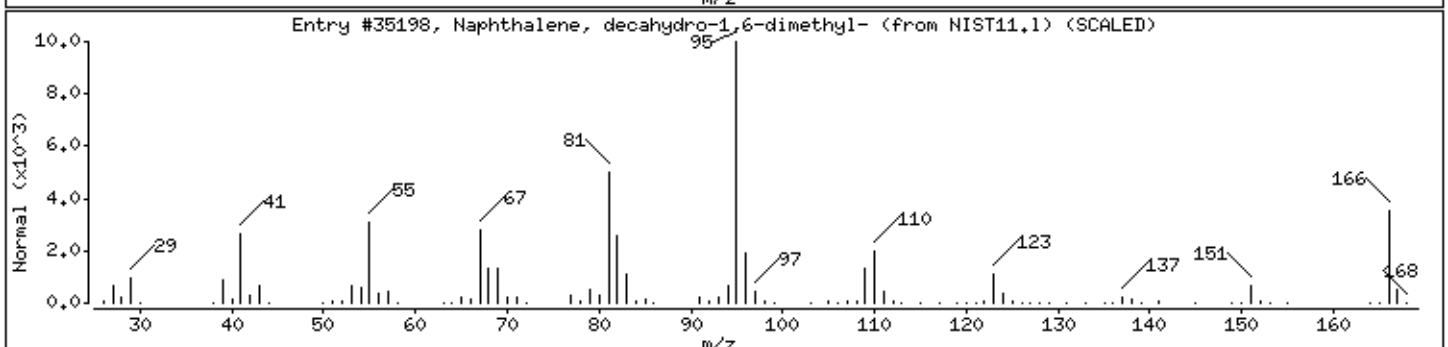
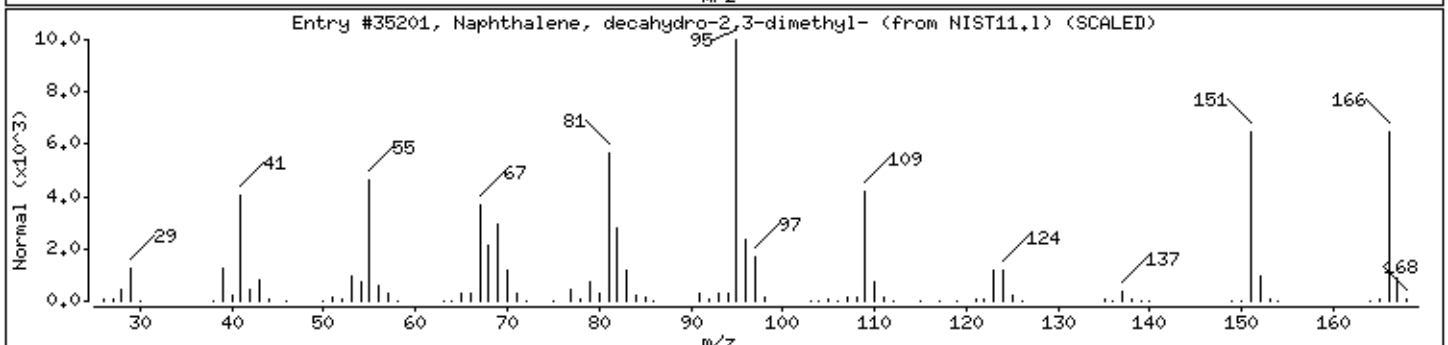
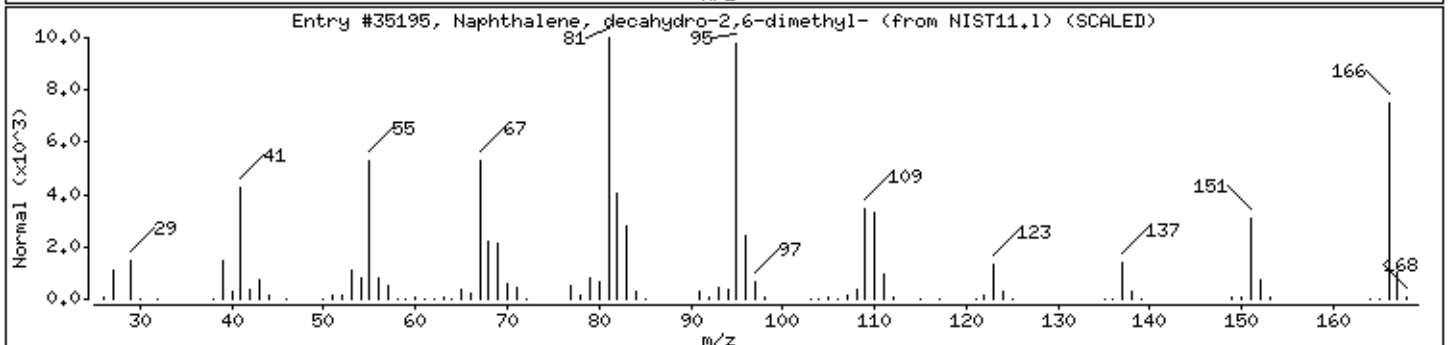
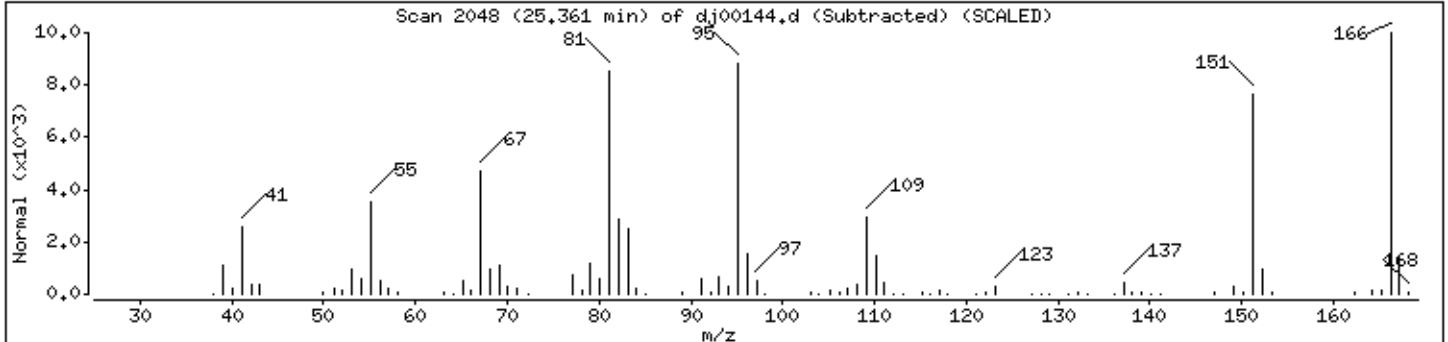
Sample Info: 8065068;500;D1528030AA;SVMP3;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-2,6-dimethyl-	1618-22-0	NIST11.1	35195	74	C12H22	166
Naphthalene, decahydro-2,3-dimethyl-	1008-80-6	NIST11.1	35201	72	C12H22	166
Naphthalene, decahydro-1,6-dimethyl-	1750-51-2	NIST11.1	35198	60	C12H22	166



Standards Data

Volatile Organics in Air by GC/MS

Theoretical Standard Concentrations for EPA Method TO-14/15.

Compound Name	Cas No	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025	VSTD70
Bromochloromethane	74-97-5	10.00	10.00	10.00	10.00	10.00	10.00
Propene	115-07-1	1.02	2.04	5.10	10.20	25.50	71.4
Dichlorodifluoromethane	75-71-8	1.01	2.02	5.05	10.10	25.25	70.7
Chlorodifluoromethane	75-45-6	1.07	2.14	5.35	10.70	26.75	74.9
Freon 114	76-14-2	1.03	2.06	5.15	10.30	25.75	
Chloromethane	74-87-3	1.03	2.06	5.15	10.30	25.75	
Vinyl Chloride	75-01-4	1.01	2.02	5.05	10.10	25.25	70.7
1,3-Butadiene	106-99-0	1.02	2.04	5.10	10.20	25.50	
Bromomethane	74-83-9	0.98	1.96	4.90	9.80	24.50	
Chloroethane	75-00-3	0.97	1.94	4.85	9.70	24.25	
Bromoethene	593-60-2	1.06	2.12	5.30	10.60	26.50	
Dichlorofluoromethane	75-43-4	1.05	2.10	5.25	10.50	26.25	
Trichlorofluoromethane	75-69-4	1.01	2.02	5.05	10.10	25.25	
Freon123A	354-23-4	1.10	2.20	5.50	11.00	27.50	
Pentane	109-66-0	1.05	2.10	5.25	10.50	26.25	73.5
Ethanol	9003-99-0	0.58	1.16	2.90	5.80	14.50	
Acrolein	107-02-8	0.75	1.50	3.75	7.50	18.75	
1,1-Dichloroethene	75-35-4	1.00	2.00	5.00	10.00	25.00	70.0
Freon 113	76-13-1	0.97	1.94	4.85	9.70	24.25	
Acetone	67-64-1	1.07	2.14	5.35	10.70	26.75	74.9
Methyl Iodide	74-88-4	1.05	2.10	5.25	10.50	26.25	
Carbon Disulfide	75-15-0	1.00	2.00	5.00	10.00	25.00	
Isopropanol	67-63-0	0.96	1.92	4.80	9.60	24.00	67.2
Acetonitrile	75-05-8	0.99	1.98	4.95	9.90	24.75	
3-Chloropropene	107-05-1	1.10	2.20	5.50	11.00	27.50	
Methylene Chloride	75-09-2	1.10	2.20	5.50	11.00	27.50	77.0
tert-Butyl Alcohol	75-65-0	1.10	2.20	5.50	11.00	27.50	77.0
Acrylonitrile	107-13-1	1.05	2.10	5.25	10.50	26.25	
trans-1,2-Dichloroethene	156-60-5	1.00	2.00	5.00	10.00	25.00	70.0
Methyl t-Butyl Ether	1634-04-4	1.02	2.04	5.10	10.20	25.50	
Hexane	110-54-3	1.02	2.04	5.10	10.20	25.50	71.4
1,1-Dichloroethane	75-34-3	1.01	2.02	5.05	10.10	25.25	70.7
Vinyl Acetate	108-05-4	0.76	1.52	3.80	7.60	19.00	
Di-Isopropyl Ether	108-20-3	1.04	2.08	5.20	10.40	26.00	
Ethyl Tert-Butyl Ether	637-92-3	1.01	2.02	5.05	10.10	25.25	
cis-1,2-Dichloroethene	156-59-2	1.05	2.10	5.25	10.50	26.25	73.5
2-Butanone	78-93-3	1.04	2.08	5.20	10.40	26.00	72.8
Ethyl Acetate	141-78-6	1.10	2.20	5.50	11.00	27.50	
Methyl Acrylate	96-33-3	1.04	2.08	5.20	10.40	26.00	
Tetrahydrofuran	109-99-9	1.00	2.00	5.00	10.00	25.00	
Chloroform	67-66-3	1.01	2.02	5.05	10.10	25.25	70.7
1,1,1-Trichloroethane	71-55-6	1.03	2.06	5.15	10.30	25.75	72.1
Cyclohexane	110-82-7	1.03	2.06	5.15	10.30	25.75	72.1
Carbon Tetrachloride	56-23-5	1.04	2.08	5.20	10.40	26.00	72.8
1,4-Difluorobenzene	540-36-3	10.00	10.00	10.00	10.00	10.00	10.00
1,2-Dichloroethane	107-06-2	1.04	2.08	5.20	10.40	26.00	72.8
Benzene	71-43-2	1.06	2.12	5.30	10.60	26.50	74.2
Isooctane	540-84-1	1.05	2.10	5.25	10.50	26.25	73.5

Theoretical Standard Concentrations for EPA Method TO-14/15.

Compound Name	Cas No	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025	VSTD070
Tert Amyl Methyl Ether	994-05-8	1.07	2.14	5.35	10.70	26.75	
Heptane	142-82-5	1.05	2.10	5.25	10.50	26.25	73.5
Trichloroethene	79-01-6	1.03	2.06	5.15	10.30	25.75	72.1
Ethyl Acrylate	140-88-5	1.08	2.16	5.40	10.80	27.00	
1,2-Dichloropropane	78-87-5	1.05	2.10	5.25	10.50	26.25	
Methyl Methacrylate	80-62-6	1.01	2.02	5.05	10.10	25.25	
Dibromomethane	74-95-3	1.05	2.10	5.25	10.50	26.25	
1,4-Dioxane	123-91-1	1.03	2.06	5.15	10.30	25.75	
Bromodichloromethane	75-27-4	1.03	2.06	5.15	10.30	25.75	
cis-1,3-Dichloropropene	10061-01-5	0.95	1.90	4.75	9.50	23.75	66.5
4-Methyl-2-Pentanone	108-10-1	1.02	2.04	5.10	10.20	25.50	
Chlorobenzene d5	3114-55-4	10.00	10.00	10.00	10.00	10.00	10.00
Toluene	108-88-3	1.06	2.12	5.30	10.60	26.50	74.2
Octane	111-65-9	1.03	2.06	5.15	10.30	25.75	72.1
trans-1,3-Dichloropropene	624-64-6	1.01	2.02	5.05	10.10	25.25	70.7
Ethyl Methacrylate	97-63-2	1.01	2.02	5.05	10.10	25.25	
1,1,2-Trichloroethane	79-00-5	1.06	2.12	5.30	10.60	26.50	74.2
Tetrachloroethene	127-18-4	1.07	2.14	5.35	10.70	26.75	74.9
2-Hexanone	591-78-6	1.09	2.18	5.45	10.90	27.25	
Dibromochloromethane	124-48-1	0.98	1.96	4.90	9.80	24.50	
1,2-Dibromoethane	106-93-4	1.00	2.00	5.00	10.00	25.00	
Chlorobenzene	108-90-7	1.06	2.12	5.30	10.60	26.50	74.2
1,1,1,2-Tetrachloroethane	630-20-6	1.06	2.12	5.30	10.60	26.50	74.2
Ethylbenzene	100-41-4	1.06	2.12	5.30	10.60	26.50	74.2
m/p-Xylene	1330-20-7	0.98	1.96	4.90	9.80	24.50	68.6
o-Xylene	95-47-6	1.07	2.14	5.35	10.70	26.75	74.9
Styrene	100-42-5	1.04	2.08	5.20	10.40	26.00	
Bromoform	75-25-2	1.00	2.00	5.00	10.00	25.00	
Cumene	98-82-8	1.04	2.08	5.20	10.40	26.00	
1,1,2,2-Tetrachloroethane	79-34-5	1.07	2.14	5.35	10.70	26.75	
1,2,3-Trichloropropane	96-18-4	1.02	2.04	5.10	10.20	25.50	
n-Propylbenzene	103-65-1	1.00	2.00	5.00	10.00	25.00	
2-Chlorotoluene	95-49-8	1.03	2.06	5.15	10.30	25.75	
Bromobenzene	108-86-1	1.06	2.12	5.30	10.60	26.50	
4-Ethyltoluene	622-96-8	1.01	2.02	5.05	10.10	25.25	
1,3,5-Trimethylbenzene	108-67-8	1.03	2.06	5.15	10.30	25.75	
Alpha Methyl Styrene	611-15-1	0.99	1.98	4.95	9.90	24.75	
tert-Butylbenzene	98-06-6	1.02	2.04	5.10	10.20	25.50	
1,2,4-Trimethylbenzene	95-63-6	1.02	2.04	5.10	10.20	25.50	
sec-Butylbenzene	135-98-8	1.01	2.02	5.05	10.10	25.25	
1,3-Dichlorobenzene	541-73-1	1.05	2.10	5.25	10.50	26.25	
1,4-Dichlorobenzene	106-46-7	1.02	2.04	5.10	10.20	25.50	
p-Isopropyltoluene	99-87-6	1.01	2.02	5.05	10.10	25.25	
Benzyl chloride	100-44-7	0.85	1.70	4.25	8.50	21.25	
1,2-Dichlorobenzene	95-50-1	1.01	2.02	5.05	10.10	25.25	
n-Butylbenzene	104-51-8	1.02	2.04	5.10	10.20	25.50	
Hexachloroethane	67-72-1	1.09	2.18	5.45	10.90	27.25	
1-2-Dibromo-3-chloropropane	96-12-8	0.96	1.92	4.80	9.60	24.00	

Theoretical Standard Concentrations for EPA Method TO-14/15.

Compound Name	Cas No	VSTD001	VSTD002	VSTD005	VSTD010	VSTD025	VSTD070
1,2,4-Trichlorobenzene	120-82-1	0.96	1.92	4.80	9.60	24.00	
Hexachlorobutadiene	87-68-3	0.99	1.98	4.95	9.90	24.75	
Naphthalene	91-20-3	1.04	2.08	5.20	10.40	26.00	

SDG No.:

Instrument ID: 10145 Calibration Start Date: 10/01/2015 Calibration End Date: 10/01/2015

Calibration Start Time: 13:15 Calibration End Time: 17:08

LAB FILE IDS:

RRF 1 = dj000003.d RRF 2 = dj000004.d RRF 5 = dj000005.d RRF 10 = dj000006.d RRF 25 = dj000007.d
RRF 70 = dj000008.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
Propene	0.436	0.398	0.405	0.372	0.404	0.399	0.402	5	AVG
Dichlorodifluoromethane	3.229	2.931	2.960	2.699	2.868	2.531	2.870	8	AVG
Chlorodifluoromethane	1.113	0.998	1.006	0.938	0.994	0.965	1.002	6	AVG
Freon 114	2.595	2.399	2.402	2.243	2.244	1.999	2.313	9	AVG
Chloromethane	0.192	0.180	0.180	0.170	0.183	0.184	0.182	4	AVG
Vinyl Chloride	0.778	0.684	0.719	0.679	0.694	0.680	0.706	5	AVG
1,3-Butadiene	0.495	0.448	0.469	0.444	0.466	0.471	0.465	4	AVG
Bromomethane	0.998	0.889	0.914	0.856	0.866	0.855	0.896	6	AVG
Chloroethane	0.442	0.388	0.399	0.379	0.385	0.378	0.395	6	AVG
Bromoethene	0.986	0.872	0.896	0.839	0.833	0.845	0.879	7	AVG
Dichlorofluoromethane	1.948	1.719	1.712	1.611	1.595	1.517	1.684	9	AVG
Trichlorofluoromethane	3.450	3.081	3.038	2.840	2.777	2.705	2.982	9	AVG
Pentane	1.067	0.937	0.922	0.866	0.873	0.899	0.927	8	AVG
Ethanol	****	0.258	0.280	0.277	0.259	0.225	0.260	8	AVG
Freon123a	1.607	1.460	1.440	1.396	1.385	****	1.458	6	AVG
Acrolein	0.137	0.168	0.192	0.202	0.233	0.242	0.196	20	AVG
1,1-Dichloroethene	1.391	1.238	1.231	1.151	1.132	1.109	1.208	9	AVG
Freon 113	1.548	1.365	1.310	1.248	1.243	1.213	1.321	9	AVG
Acetone	1.006	0.902	0.797	0.846	0.865	0.894	0.885	8	AVG
Methyl Iodide	2.324	2.079	2.057	2.014	1.906	****	2.076	7	AVG
Carbon Disulfide	2.609	2.250	2.257	2.082	2.053	2.055	2.218	10	AVG
Isopropanol	1.059	1.012	1.052	1.044	1.087	0.967	1.037	4	AVG
Acetonitrile	****	0.097	0.289	0.255	0.291	0.307	0.248	35	AVG*

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
Average RRF for all compounds must be greater than 0.010.

SDG No.:

Instrument ID: 10145 Calibration Start Date: 10/01/2015 Calibration End Date: 10/01/2015

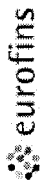
Calibration Start Time: 13:15 Calibration End Time: 17:08

LAB FILE IDS:

RRF 1 = dj000003.d RRF 2 = dj000004.d RRF 5 = dj000005.d RRF 10 = dj000006.d RRF 25 = dj000007.d
RRF 70 = dj000008.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
3-Chloropropene	0.409	0.399	0.339	0.330	0.335	****	0.362	11	AVG
Methylene Chloride	0.720	0.637	0.641	0.613	0.618	0.642	0.645	6	AVG
tert-Butyl Alcohol	1.568	1.509	1.651	1.695	1.862	1.688	1.662	7	AVG
Acrylonitrile	0.236	0.241	0.325	0.381	0.458	****	0.328	29	AVG
trans-1,2-Dichloroethene	1.069	0.975	0.981	0.993	1.025	1.024	1.011	4	AVG
Methyl t-Butyl Ether	2.500	2.161	2.323	2.419	2.546	2.471	2.403	6	AVG
Hexane	1.235	1.104	1.056	1.001	1.017	1.033	1.075	8	AVG
1,1-Dichloroethane	1.522	1.406	1.388	1.342	1.327	1.347	1.388	5	AVG
Vinyl Acetate	0.174	0.184	0.204	0.209	0.222	0.232	0.204	11	AVG
Di-Isopropyl Ether	1.970	1.880	1.908	1.863	1.859	1.896	1.896	2	AVG
Ethyl Tert-Butyl Ether	2.686	2.534	2.591	2.550	2.564	2.586	2.585	2	AVG
cis-1,2-Dichloroethene	1.059	0.992	1.015	0.980	0.970	0.992	1.001	3	AVG
2-Butanone	0.320	0.349	0.381	0.393	0.384	0.387	0.369	8	AVG
Ethyl Acetate	0.225	0.231	0.250	0.249	0.243	0.249	0.241	4	AVG
Methyl Acrylate	0.946	0.974	1.054	1.068	1.084	1.146	1.045	7	AVG
Tetrahydrofuran	0.562	0.545	0.552	0.582	0.585	0.625	0.575	5	AVG
Chloroform	2.204	2.058	2.049	1.964	1.940	1.954	2.028	5	AVG
1,1,1-Trichloroethane	2.868	2.572	2.490	2.387	2.369	2.347	2.506	8	AVG
Cyclohexane	1.295	1.155	1.115	1.074	1.066	1.082	1.131	8	AVG
Carbon Tetrachloride	3.033	2.727	2.627	2.528	2.409	2.397	2.620	9	AVG
Benzene	0.729	0.682	0.664	0.649	0.652	0.668	0.674	4	AVG
1,2-Dichloroethane	0.347	0.322	0.323	0.320	0.317	0.336	0.327	4	AVG
Isooctane	0.983	0.896	0.883	0.844	0.867	0.889	0.894	5	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
Average RRF for all compounds must be greater than 0.010.



Lancaster Laboratories
Environmental

FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

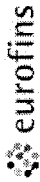
Instrument ID: 10145 Calibration Start Date: 10/01/2015 Calibration End Date: 10/01/2015
Calibration Start Time: 13:15 Calibration End Time: 17:08

LAB FILE IDs:

RRF 1 = dj000003.d RRF 2 = dj000004.d RRF 5 = dj000005.d RRF 10 = dj000006.d RRF 25 = dj000007.d
RRF 70 = dj000008.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
Tert-Amyl Methyl Ether	0.666	0.659	0.686	0.690	0.710	0.720	0.689	3	AVG
Heptane	0.285	0.270	0.257	0.252	0.260	0.282	0.268	5	AVG
Trichloroethene	0.377	0.358	0.356	0.344	0.352	0.387	0.363	4	AVG
Ethyl Acrylate	0.302	0.320	0.361	0.372	0.375	0.406	0.356	11	AVG
1,2-Dichloropropane	0.210	0.196	0.198	0.193	0.192	0.196	0.198	3	AVG
Dibromomethane	0.374	0.358	0.358	0.355	0.359	0.402	0.368	5	AVG
1,4-Dioxane	0.156	0.155	0.170	0.174	0.182	0.161	0.166	6	AVG
Methyl Methacrylate	0.192	0.198	0.219	0.223	0.224	0.236	0.215	8	AVG
Bromodichloromethane	0.569	0.547	0.555	0.552	0.557	0.581	0.560	2	AVG
cis-1,3-Dichloropropene	0.327	0.324	0.341	0.346	0.357	0.382	0.346	6	AVG
4-Methyl-2-Pentanone	0.323	0.332	0.356	0.367	0.383	0.398	0.360	8	AVG
Toluene	1.031	0.984	0.988	0.962	0.963	1.023	0.992	3	AVG
Octane	0.410	0.397	0.390	0.380	0.384	0.414	0.396	4	AVG
trans-1,3-Dichloropropene	0.350	0.356	0.389	0.398	0.416	0.451	0.393	10	AVG
Ethyl Methacrylate	0.348	0.383	0.419	0.428	0.434	0.423	0.406	8	AVG
1,1,2-Trichloroethane	0.347	0.332	0.336	0.330	0.332	0.342	0.336	2	AVG
Tetrachloroethene	0.664	0.622	0.617	0.592	0.826	0.875	0.699	17	AVG
2-Hexanone	0.315	0.286	0.347	0.373	0.399	0.398	0.353	13	AVG
Dibromochloromethane	0.511	0.511	0.523	0.526	0.542	0.580	0.532	5	AVG
1,2-Dibromoethane	0.538	0.519	0.533	0.533	0.544	0.582	0.542	4	AVG
Chlorobenzene	0.837	0.797	0.812	0.808	0.824	0.884	0.827	4	AVG
1,1,1,2-Tetrachloroethane	0.491	0.473	0.469	0.469	0.474	0.504	0.480	3	AVG
Ethylbenzene	1.305	1.270	1.295	1.312	1.324	1.382	1.315	3	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
Average RRF for all compounds must be greater than 0.010.



Lancaster Laboratories
Environmental

FORM 06
VOLATILE ORGANICS IN AIR
INITIAL CALIBRATION DATA

SDG No.:

Instrument ID: 10145 Calibration Start Date: 10/01/2015 Calibration End Date: 10/01/2015
Calibration Start Time: 13:15 Calibration End Time: 17:08

LAB FILE IDs:

RRF 1 = dj000003.d RRF 2 = dj000004.d RRF 5 = dj000005.d RRF 10 = dj000006.d RRF 25 = dj000007.d
RRF 70 = dj000008.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
m/p-Xylene	1.161	1.105	1.142	1.155	1.179	1.241	1.164	4	AVG
o-Xylene	1.113	1.069	1.086	1.095	1.103	1.149	1.103	2	AVG
Styrene	0.792	0.787	0.813	0.843	0.872	0.911	0.836	6	AVG
Bromoforn	0.654	0.659	0.702	0.737	0.769	0.830	0.725	9	AVG
Cumene	1.631	1.550	1.558	1.592	1.603	1.702	1.606	3	AVG
Bromobenzene	0.486	0.487	0.490	0.501	0.521	0.576	0.510	7	AVG
1,1,2,2-Tetrachloroethane	0.678	0.645	0.656	0.660	0.646	0.671	0.659	2	AVG
1,2,3-Trichloropropane	0.244	0.235	0.241	0.244	0.245	0.261	0.245	4	AVG
n-Propylbenzene	0.429	0.421	0.434	0.450	0.461	0.504	0.450	7	AVG
2-Chlorotoluene	0.359	0.348	0.355	0.363	0.377	0.414	0.369	6	AVG
4-Ethyltoluene	1.497	1.485	1.518	1.580	1.617	1.775	1.579	7	AVG
1,3,5-Trimethylbenzene	1.449	1.353	1.374	1.406	1.428	1.573	1.431	5	AVG
Alpha Methyl Styrene	0.553	0.573	0.600	0.638	0.673	****	0.607	8	AVG
tert-Butylbenzene	1.483	1.375	1.363	1.374	1.382	1.497	1.412	4	AVG
1,2,4-Trimethylbenzene	1.348	1.307	1.309	1.359	1.396	1.471	1.365	5	AVG
sec-Butylbenzene	1.933	1.808	1.813	1.858	1.874	****	1.857	3	AVG
1,3-Dichlorobenzene	0.779	0.779	0.804	0.838	0.883	****	0.817	5	AVG
1,4-Dichlorobenzene	0.767	0.747	0.778	0.826	0.872	****	0.798	6	AVG
p-Isopropyltoluene	1.656	1.567	1.581	1.621	1.662	****	1.618	3	AVG
Benzyl Chloride	0.710	0.765	0.891	0.995	1.133	****	0.899	19	AVG
1,2-Dichlorobenzene	0.770	0.746	0.757	0.791	0.831	****	0.779	4	AVG
n-Butylbenzene	1.232	1.200	1.218	1.265	1.314	****	1.246	4	AVG
Hexachloroethane	0.468	0.458	0.481	0.485	0.275	****	0.433	21	AVG

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
Average RRF for all compounds must be greater than 0.010.

SDG No.:

Instrument ID: 10145 Calibration Start Date: 10/01/2015 Calibration End Date: 10/01/2015

Calibration Start Time: 13:15 Calibration End Time: 17:08

LAB FILE IDs:

RRF 1 = dj000003.d RRF 2 = dj000004.d RRF 5 = dj000005.d RRF 10 = dj000006.d RRF 25 = dj000007.d
RRF 70 = dj000008.d

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF 70	RRF	% RSD	CAL. METHOD
1,2-Dibromo-3-chloropropane	0.430	0.415	0.418	0.447	0.567	****	0.455	14	AVG
1,2,4-Trichlorobenzene	0.481	0.518	0.579	0.688	0.617	****	0.577	14	AVG
Hexachlorobutadiene	1.077	0.986	0.901	0.884	0.745	****	0.919	13	AVG
Naphthalene	0.755	0.848	0.984	1.265	0.933	****	0.957	20	AVG

Average % RSD: 7

* Maximum %RSD = 30%. Two may exceed Maximum %RSD of 30% but must be less than 40%.
Average RRF for all compounds must be greater than 0.010.

SDG No.:

Instrument ID: 10145 LCS File ID: dj00012.d LCSD File ID: dj00013.d
 Batch: D1527430AA LCS Injected: 10/01/2015 LCSD Injected: 10/01/2015
 Method: EPA TO-15 LCS Client ID: LCSD86 LCSD Client ID: LCSD86
 Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb (v))	LCSD CONC. (ppb (v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Propene	11.00	10.10	9.70	92	88	41-129	4	25	YES
Dichlorodifluoromethane	10.00	9.41	9.12	94	91	61-149	3	25	YES
Freon 114	10.20	9.52	9.41	93	92	63-123	1	25	YES
Chloromethane	10.30	9.06	8.51	88	83	54-118	6	25	YES
Vinyl Chloride	10.20	9.81	9.48	96	93	70-130	3	25	YES
1,3-Butadiene	10.50	10.12	9.62	96	92	57-138	5	25	YES
Bromomethane	10.10	9.68	9.31	96	92	70-130	4	25	YES
Chloroethane	10.00	9.34	8.95	93	89	63-119	4	25	YES
Trichlorofluoromethane	10.00	9.38	9.16	94	92	70-130	2	25	YES
Ethanol	10.60	6.09	5.72	57	54	10-175	6	25	YES
Acrolein	10.90	10.63	10.29	97	94	43-141	3	25	YES
1,1-Dichloroethene	10.60	9.97	9.64	94	91	61-128	3	25	YES
Freon 113	10.50	9.80	9.54	93	91	63-114	3	25	YES
Acetone	10.70	10.04	10.06	94	94	61-134	0	25	YES
Carbon Disulfide	10.20	9.76	9.14	96	90	55-121	7	25	YES
Isopropanol	11.00	9.51	8.72	86	79	55-152	9	25	YES
Methylene Chloride	10.60	10.95	10.41	103	98	70-130	5	25	YES
trans-1,2-Dichloroethene	10.50	10.16	9.60	97	91	66-121	6	25	YES
Methyl t-Butyl Ether	10.70	9.83	10.04	92	94	52-129	2	25	YES
Hexane	10.80	9.75	9.45	90	88	63-117	3	25	YES
1,1-Dichloroethane	10.50	9.40	9.22	90	88	67-124	2	25	YES
Vinyl Acetate	10.80	10.31	10.56	95	98	45-162	2	25	YES
cis-1,2-Dichloroethene	10.60	9.82	9.61	93	91	65-121	2	25	YES
2-Butanone	10.80	10.09	10.15	93	94	60-135	1	25	YES
Ethyl Acetate	10.60	8.80	8.75	83	83	51-131	1	25	YES
Tetrahydrofuran	10.90	10.31	10.35	95	95	53-134	0	25	YES
Chloroform	10.60	9.20	9.07	87	86	70-130	1	25	YES
1,1,1-Trichloroethane	10.50	9.35	9.18	89	87	70-130	2	25	YES
Cyclohexane	10.60	9.83	9.47	93	89	63-123	4	25	YES
Carbon Tetrachloride	10.40	9.66	9.44	93	91	70-130	2	25	YES
Benzene	10.50	9.53	9.38	91	89	70-130	2	25	YES
1,2-Dichloroethane	10.50	9.56	9.44	91	90	70-130	1	25	YES
Heptane	10.70	10.16	9.84	95	92	56-123	3	25	YES
Trichloroethene	10.50	10.08	9.87	96	94	70-130	2	25	YES
1,2-Dichloropropane	10.70	9.72	9.51	91	89	70-130	2	25	YES
1,4-Dioxane	10.50	10.07	9.44	96	90	43-149	6	25	YES

COMMENTS:



Lancaster Laboratories
Environmental

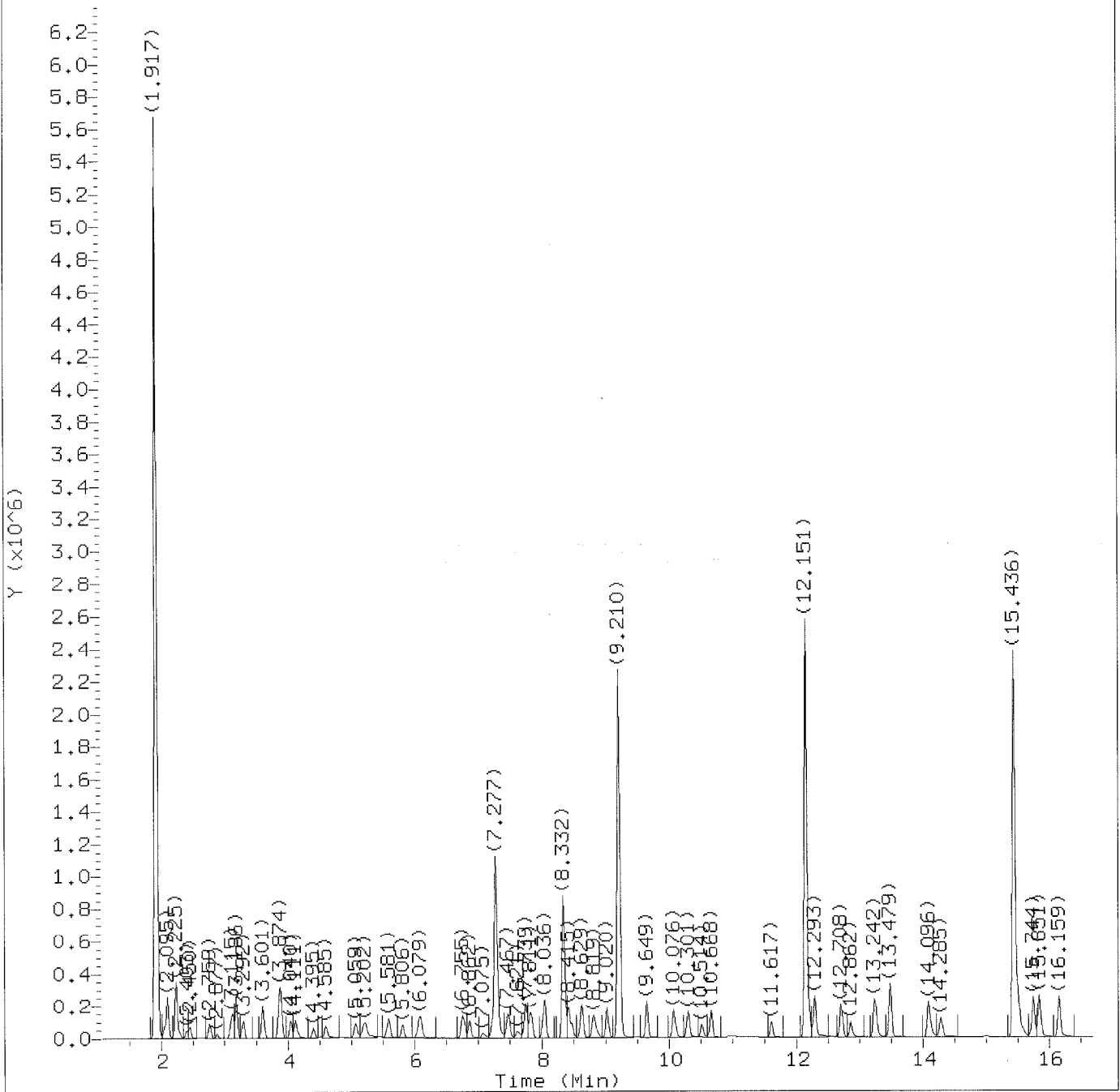
FORM 03
VOLATILE ORGANICS IN AIR
LABORATORY CONTROL SAMPLE RECOVERY

SDG No.:

Instrument ID: 10145 LCS File ID: dj00012.d LCSD File ID: dj00013.d
 Batch: D1527430AA LCS Injected: 10/01/2015 LCSD Injected: 10/01/2015
 Method: EPA TO-15 LCS Client ID: LCSD86 LCSD Client ID: LCSD86
 Dilution Factor: 1

COMPOUND	SPIKE LEVEL	LCS CONC. (ppb (v))	LCSD CONC. (ppb (v))	LCS %REC	LCSD %REC	RANGE	%RPD	RPD MAX	IN SPEC
Methyl Methacrylate	10.30	9.63	9.67	94	94	59-146	0	25	YES
Bromodichloromethane	10.50	9.21	9.14	88	87	62-129	1	25	YES
cis-1,3-Dichloropropene	10.90	10.43	10.33	96	95	64-136	1	25	YES
4-Methyl-2-Pentanone	10.80	10.02	10.01	93	93	53-140	0	25	YES
Toluene	10.70	9.80	9.75	92	91	70-130	0	25	YES
trans-1,3-Dichloropropene	10.00	9.41	9.25	94	93	61-126	2	25	YES
1,1,2-Trichloroethane	10.70	9.90	9.80	93	92	59-131	1	25	YES
Tetrachloroethene	10.40	8.91	8.66	86	83	70-130	3	25	YES
2-Hexanone	11.00	10.59	10.51	96	96	47-150	1	25	YES
Dibromochloromethane	10.80	9.56	9.41	88	87	65-127	2	25	YES
1,2-Dibromoethane	10.50	9.89	9.77	94	93	65-126	1	25	YES
Chlorobenzene	10.80	9.84	9.75	91	90	70-130	1	25	YES
Ethylbenzene	10.80	9.68	9.80	90	91	70-130	1	25	YES
m/p-Xylene	21.20	17.83	18.03	84	85	70-130	1	25	YES
o-Xylene	10.90	9.77	9.89	90	91	70-130	1	25	YES
Xylene (total)	32.10	27.60	27.92	86	87	70-130	1	25	YES
Styrene	10.80	9.63	9.70	89	90	64-130	1	25	YES
Bromoform	10.60	9.60	9.57	91	90	64-141	0	25	YES
1,1,2,2-Tetrachloroethane	10.90	9.23	9.29	85	85	58-133	1	25	YES
4-Ethyltoluene	10.70	9.32	9.36	87	87	59-126	0	25	YES
1,3,5-Trimethylbenzene	10.70	9.33	9.29	87	87	61-132	0	25	YES
1,2,4-Trimethylbenzene	10.80	9.26	9.15	86	85	60-128	1	25	YES
1,3-Dichlorobenzene	10.90	9.80	9.70	90	89	63-125	1	25	YES
1,4-Dichlorobenzene	10.70	9.65	9.55	90	89	63-127	1	25	YES
Benzyl Chloride	10.30	9.46	9.33	92	91	50-160	1	25	YES
1,2-Dichlorobenzene	10.80	9.40	9.16	87	85	62-132	3	25	YES
1,2,4-Trichlorobenzene	11.00	9.42	8.92	86	81	37-119	5	25	YES
Hexachlorobutadiene	11.00	9.25	9.01	84	82	43-120	3	25	YES
Naphthalene	10.40	10.50	9.59	101	92	35-153	9	25	YES

COMMENTS:



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

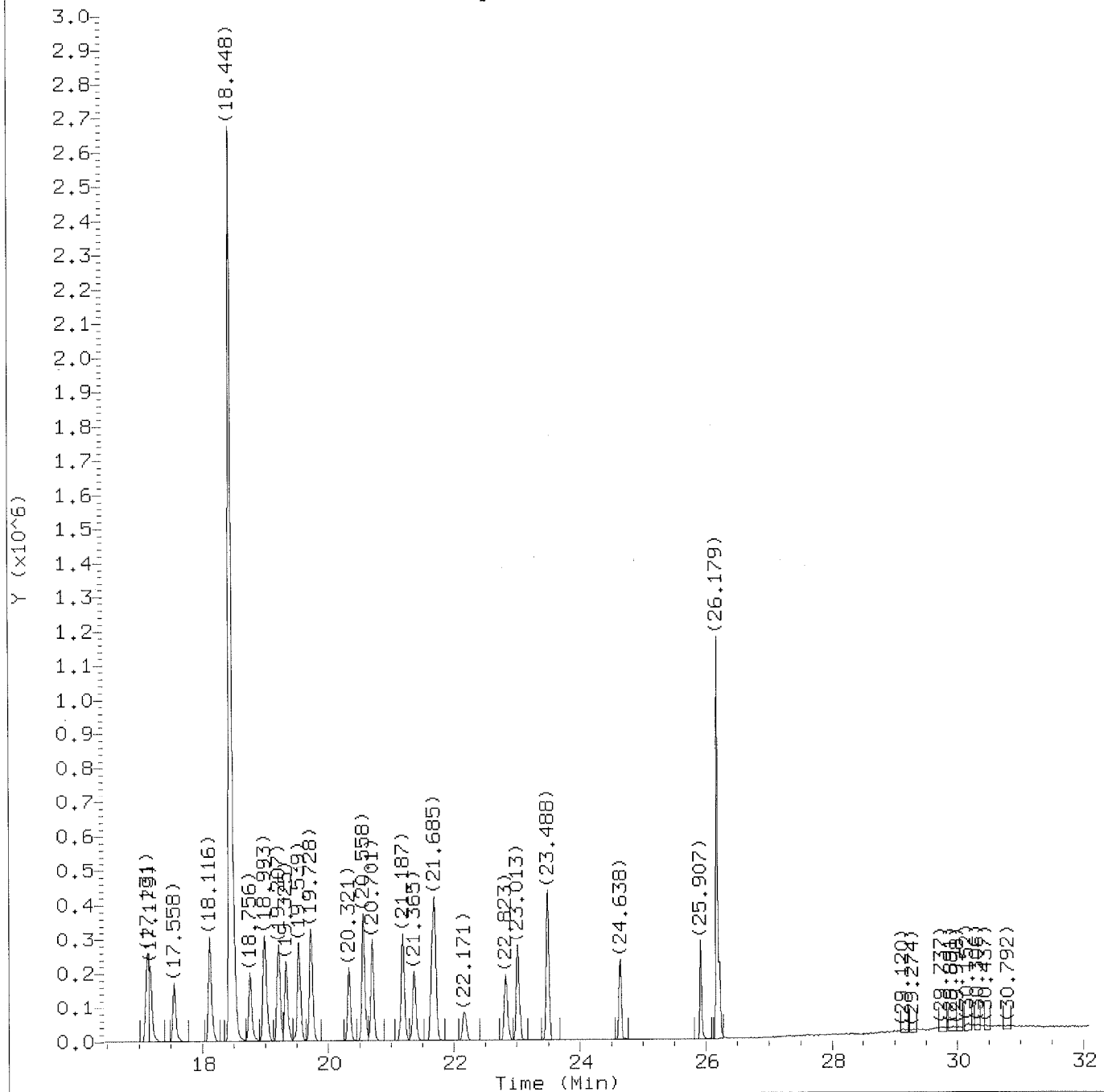
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00003.d
 Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 02-OCT-2015 10:43

Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	36667	1.106
2) Dichlorodifluoromethane	(1)	2.083	85	268786	1.137
3) Chlorodifluoromethane	(1)	2.107	51	98147	1.188
4) Freon 114	(1)	2.225	85	220236	1.155
5) Chloromethane	(1)	2.273	52	16274	1.087
6) Vinyl Chloride	(1)	2.403	62	64782	1.114
7) 1,3-Butadiene	(1)	2.450	54	41608	1.085
8) Bromomethane	(1)	2.771	94	80600	1.091
9) Chloroethane	(1)	2.889	64	35368	1.086
10) Bromoethene	(1)	3.103	106	86132	1.190
11) Dichlorofluoromethane	(1)	3.126	67	168527	1.215
12) Trichlorofluoromethane	(1)	3.186	101	287190	1.169
13) Pentane	(1)	3.292	43	92309	1.208
15) Freon123a	(1)	3.601	67	145657	1.213
14) Ethanol	(1)	3.838	45	8743M	0.408
16) Acrolein	(1)	3.838	56	8440	0.524
17) 1,1-Dichloroethene	(1)	3.850	61	114616	1.151
18) Freon 113	(1)	3.874	103	123724	1.136
20) Methyl Iodide	(1)	4.040	142	201073	1.175
19) Acetone	(1)	4.111	43	88674M	1.216
21) Carbon Disulfide	(1)	4.123	76	214976	1.176
24) 3-Chloropropene	(1)	4.395	76	37090	1.242
23) Acetonitrile	(1)	4.395	40	8120	0.397
25) Methylene Chloride	(1)	4.585	84	65232	1.227
22) Isopropanol	(1)	4.644	45	83789M	0.987
28) trans-1,2-Dichloroethene	(1)	5.059	61	88107	1.057
27) Acrylonitrile	(1)	5.119	53	20463M	0.756
29) Methyl t-Butyl Ether	(1)	5.214	73	210169M	1.061
26) tert-Butyl Alcohol	(1)	5.332	59	142101M	1.037
30) Hexane	(1)	5.581	57	103822	1.172
31) 1,1-Dichloroethane	(1)	5.806	63	126658	1.107
32) Vinyl Acetate	(1)	6.044	86	10913	0.649
33) Di-Isopropyl Ether	(1)	6.079	45	168850	1.081
36) 1,2-Dichloroethene (total)	(1)		61	179721	2.167
34) Ethyl Tert-Butyl Ether	(1)	6.755	59	223577	1.049
35) cis-1,2-Dichloroethene	(1)	6.862	61	91614	1.110
37) 2-Butanone	(1)	7.075	72	27404	0.901
38) Ethyl Acetate	(1)	7.218	70	20363	1.024

M = Compound was manually integrated.

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 on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 02-OCT-2015 10:43

Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.218	55	81053	0.941
40) *Bromochloromethane	(1)	7.277	130	824098	10.000
42) Chloroform	(1)	7.467	83	183427	1.097
41) Tetrahydrofuran	(1)	7.621	42	46289M	0.977
43) 1,1,1-Trichloroethane	(1)	7.739	97	243474	1.179
44) Cyclohexane	(1)	7.811	56	109897	1.179
45) Carbon Tetrachloride	(1)	8.036	117	259965	1.204
46) Benzene	(2)	8.415	78	250167	1.146
47) 1,2-Dichloroethane	(2)	8.475	62	116962	1.103
48) Isooctane	(2)	8.629	57	334333	1.155
49) Tert-Amyl Methyl Ether	(2)	8.819	73	231001	1.036
50) Heptane	(2)	9.020	43	97044	1.118
51) *1,4-Difluorobenzene	(2)	9.210	114	3239166	10.000
52) Trichloroethene	(2)	9.649	130	125833	1.071
54) 1,2-Dichloropropane	(2)	10.076	63	71413	1.116
53) Ethyl Acrylate	(2)	10.087	55	105528	0.915
55) Dibromomethane	(2)	10.301	174	127294	1.069
57) Methyl Methacrylate	(2)	10.514	69	62974	0.903
58) Bromodichloromethane	(2)	10.668	83	190000	1.047
56) 1,4-Dioxane	(2)	10.989	88	52181M	0.968
59) cis-1,3-Dichloropropene	(2)	11.617	75	100563	0.897
60) 4-Methyl-2-Pentanone	(2)	12.151	43	106563	0.915
61) Toluene	(3)	12.293	91	314701	1.102
62) Octane	(3)	12.708	43	121511	1.066
63) trans-1,3-Dichloropropene	(3)	12.862	75	101645	0.898
64) 1,3-Dichloropropene (total)	(3)		75	202208	1.795
66) 1,1,2-Trichloroethane	(3)	13.242	97	105808	1.093
65) Ethyl Methacrylate	(3)	13.254	69	101035	0.865
67) Tetrachloroethene	(3)	13.479	166	204478	1.016
69) Dibromochloromethane	(3)	14.084	127	144164	0.941
68) 2-Hexanone	(3)	14.107	43	98977M	0.974
70) 1,2-Dibromoethane	(3)	14.285	107	154979	0.994
71) *Chlorobenzene-d5	(3)	15.436	117	2878342	10.000
72) Chlorobenzene	(3)	15.507	112	255518	1.074
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	149820	1.084
74) Ethylbenzene	(3)	15.851	91	398120	1.052
75) m/p-Xylene	(3)	16.159	91	327615	0.978
76) o-Xylene	(3)	17.131	91	342679	1.080

M = Compound was manually integrated.

* = Compound is an internal standard.

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on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00003.d
 Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 02-OCT-2015 10:43

Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001

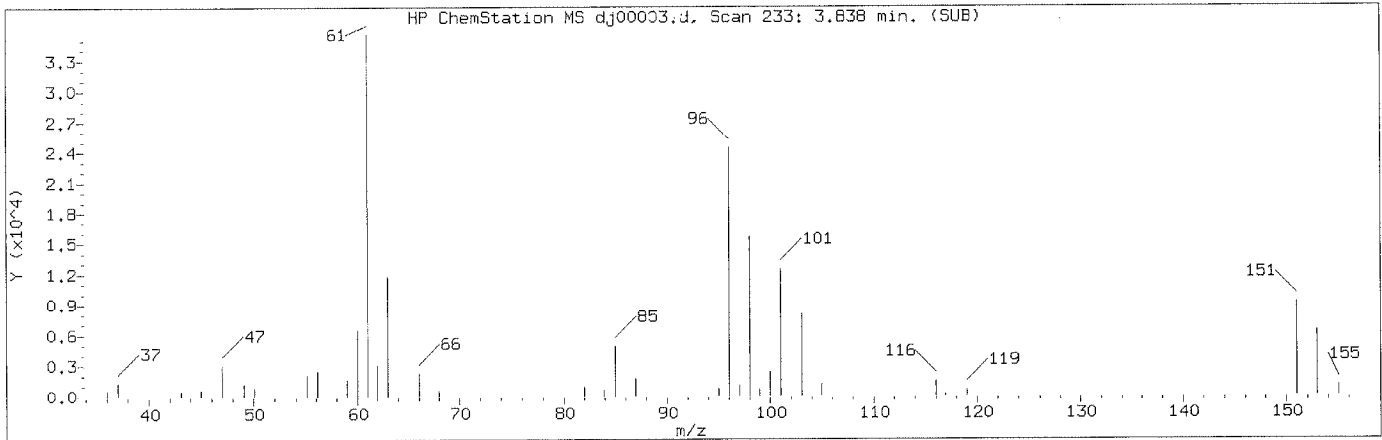
Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	237034	0.985
77) Xylene (total)	(3)		91	670294	2.058
79) Bromoform	(3)	17.558	173	188200	0.902
80) Cumene	(3)	18.127	105	488096	1.056
81) Bromobenzene	(3)	18.756	156	148324	1.010
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	208751	1.100
83) 1,2,3-Trichloropropane	(3)	19.005	110	71597	1.015
84) n-Propylbenzene	(3)	19.207	120	123467	0.954
85) 2-Chlorotoluene	(3)	19.325	126	106541	1.002
86) 4-Ethyltoluene	(3)	19.539	105	435068	0.958
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	429640	1.043
88) Alpha Methyl Styrene	(3)	20.321	118	157464	0.901
89) tert-Butylbenzene	(3)	20.558	119	435469	1.071
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	395626	1.007
91) sec-Butylbenzene	(3)	21.187	105	562080	1.051
92) 1,3-Dichlorobenzene	(3)	21.365	146	235501	1.002
93) 1,4-Dichlorobenzene	(3)	21.661	146	225140	0.980
94) p-Isopropyltoluene	(3)	21.685	119	486297	1.045
95) Benzyl Chloride	(3)	22.171	91	173753	0.672
96) 1,2-Dichlorobenzene	(3)	22.823	146	223921	0.999
97) n-Butylbenzene	(3)	23.025	91	361788	1.009
98) Hexachloroethane	(3)	23.488	117	146768	1.177
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	118825	0.906
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	132863	0.800
101) Hexachlorobutadiene	(3)	26.179	225	307016	1.161
102) Naphthalene	(3)	26.215	128	226077	0.821

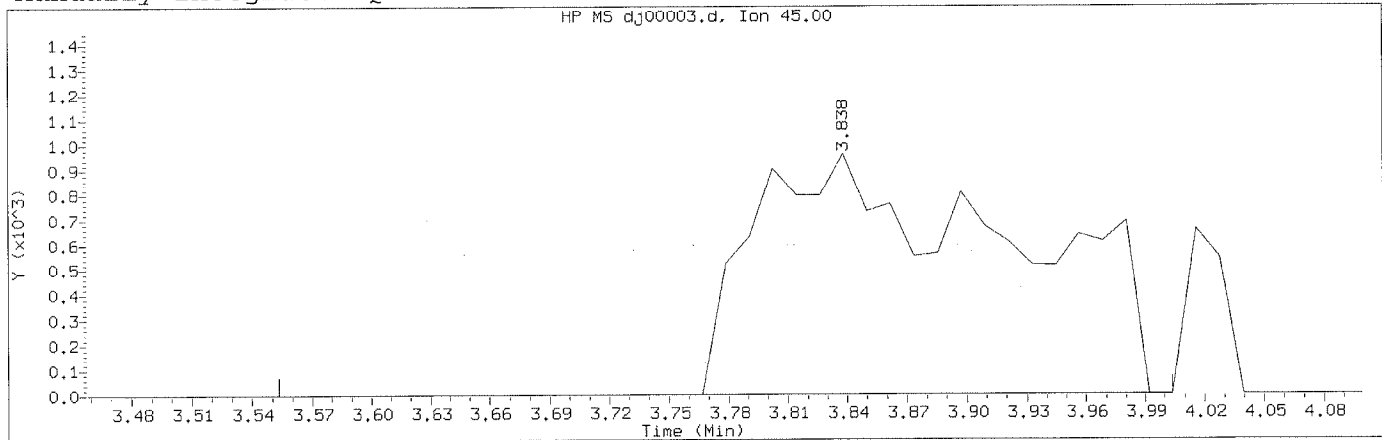
page 3 of 3

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 on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 14
Compound Name : Ethanol
Scan Number : 233
Retention Time (minutes): 3.838
Quant Ion : 45.00
Area (flag) : 8743M
Concentration (ppb(v)) : 0.4084
Integration start scan : 208 Integration stop scan: 246
Y at integration start : 0 Y at integration end: 0

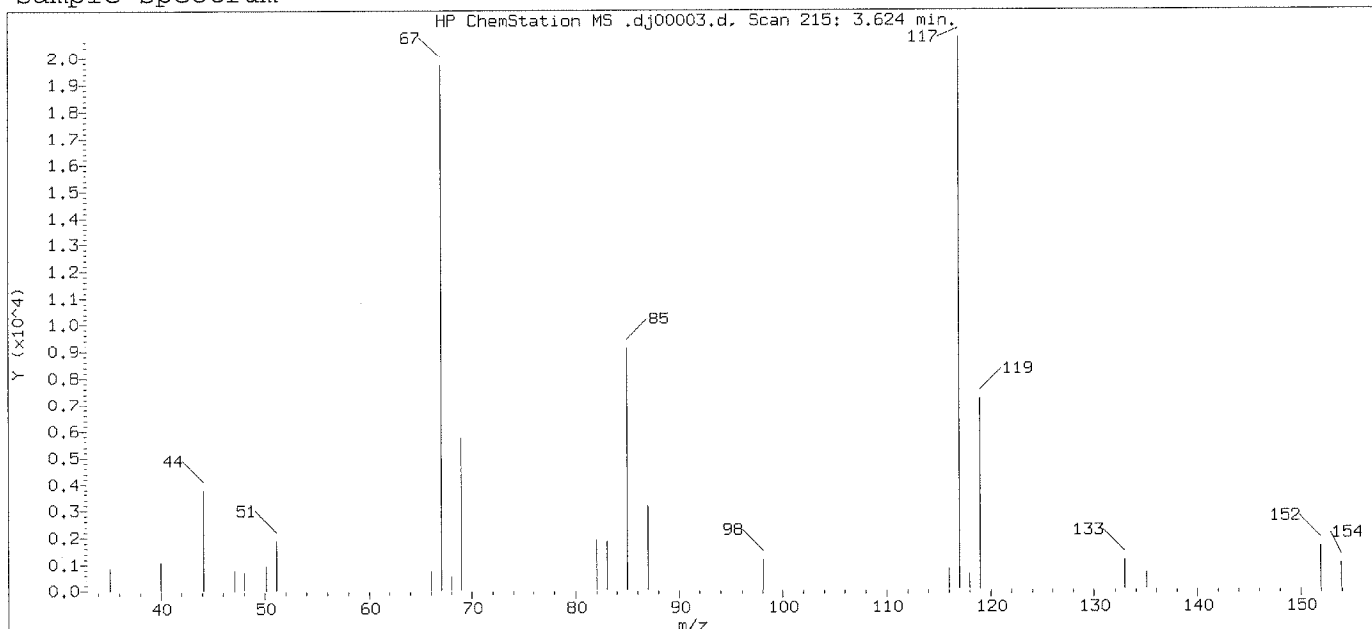
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

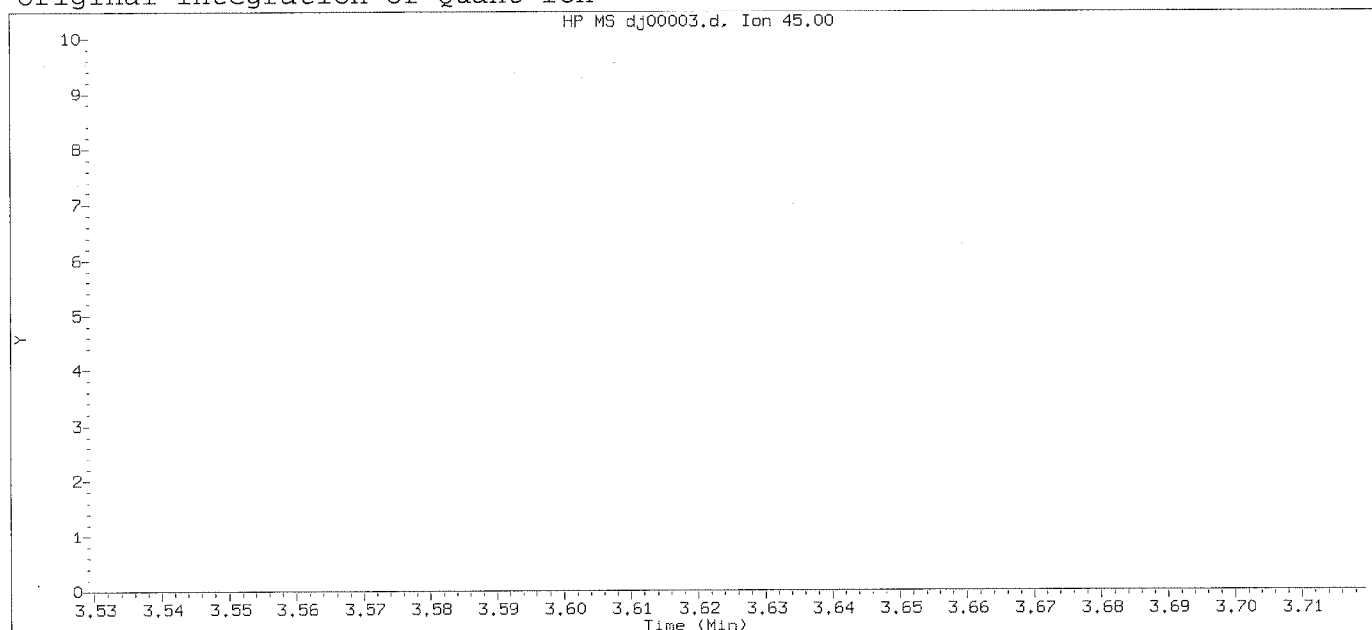
GC/MS audit/management approval: _____

Omny 10/5/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

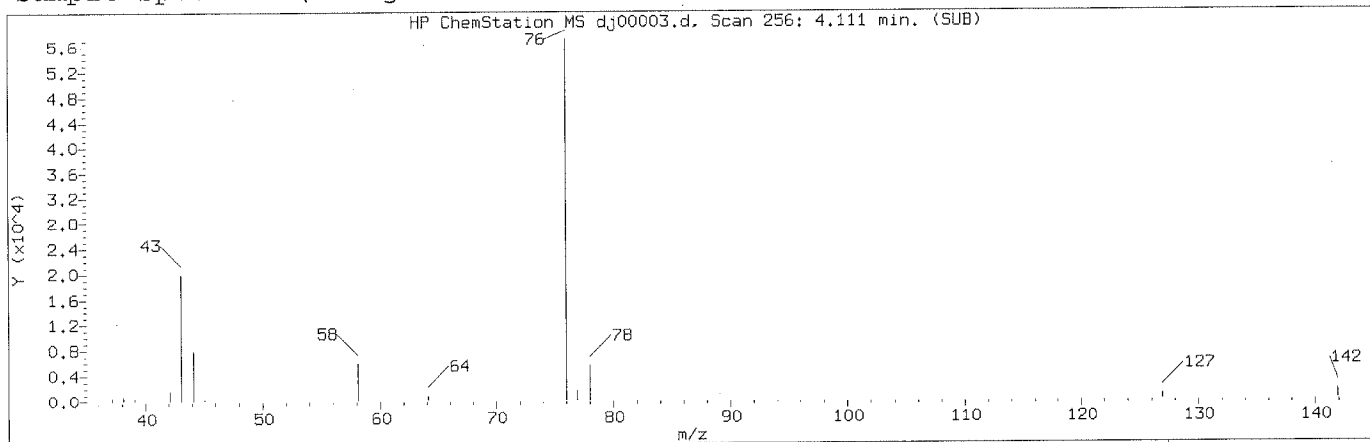
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

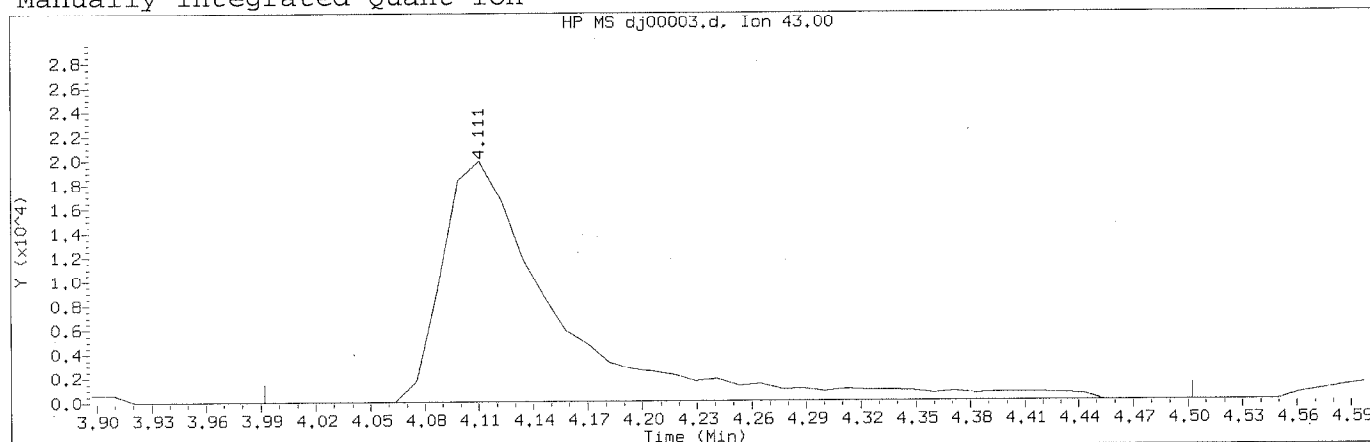
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.624
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

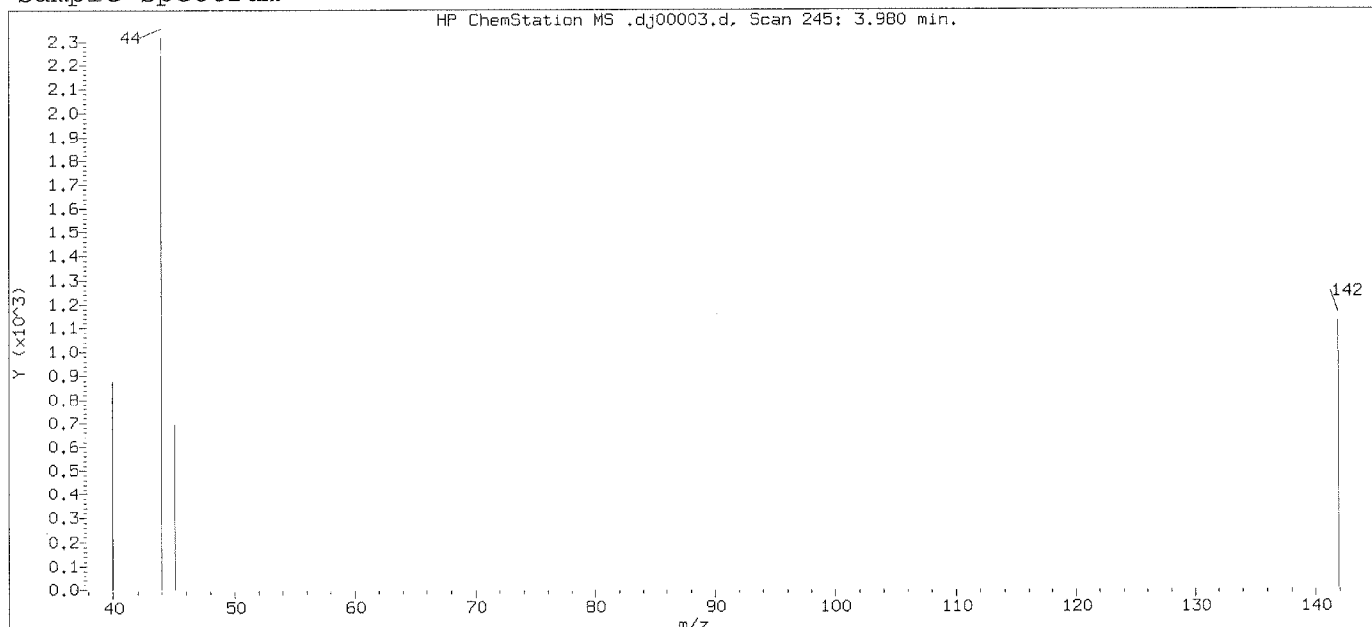
Compound Number	: 19	
Compound Name	: Acetone	
Scan Number	: 256	
Retention Time (minutes)	: 4.111	
Quant Ion	: 43.00	
Area (flag)	: 88674M	
Concentration (ppb(v))	: 1.2160	
Integration start scan	: 245	Integration stop scan: 288
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: missed peak

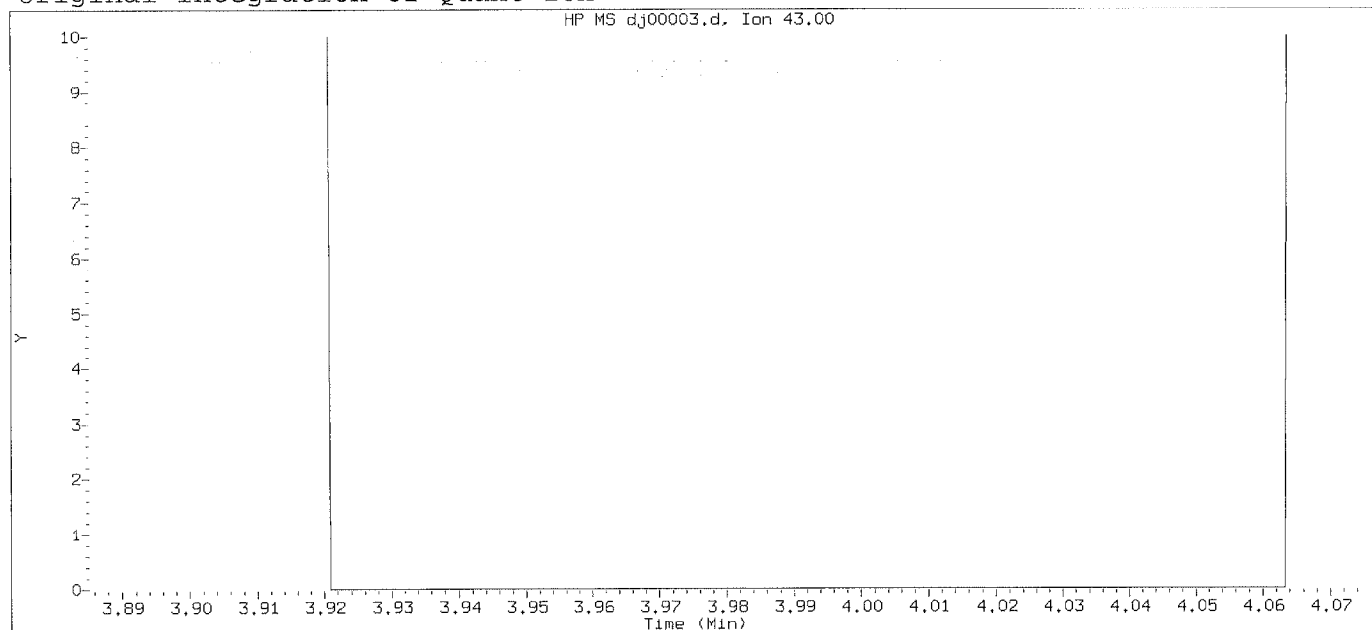
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: OMN 4/12 10/5/15

Sample Spectrum



Original Integration of Quant Ion



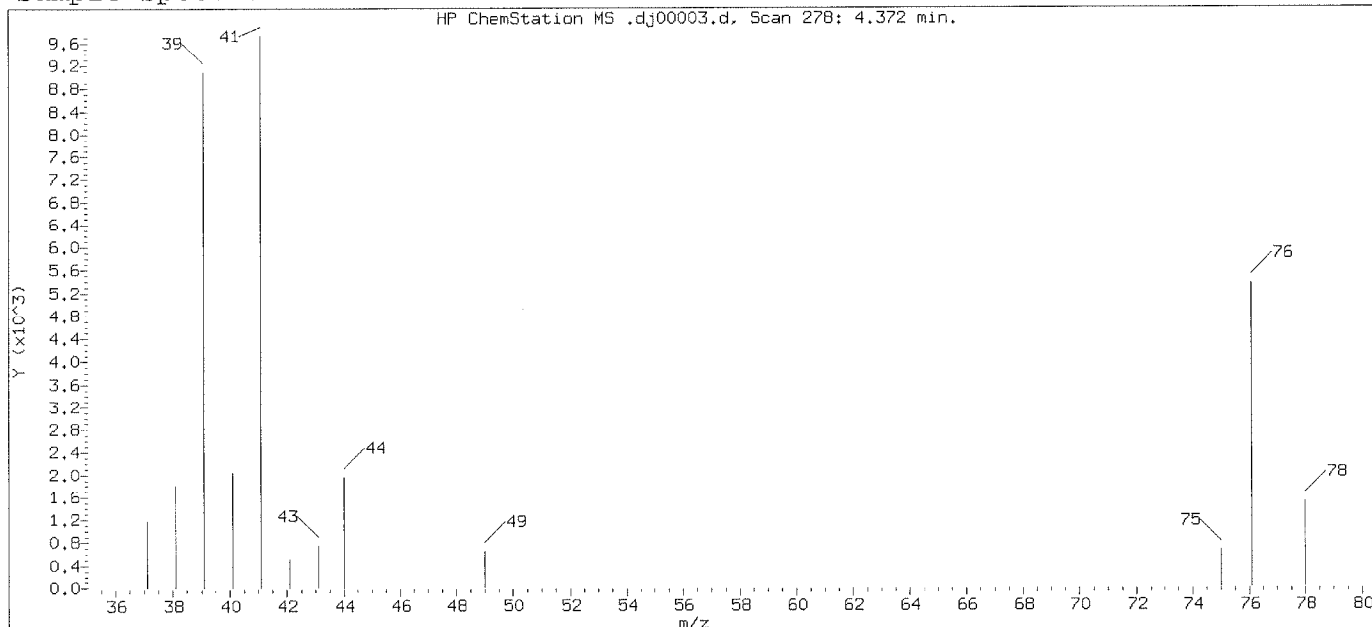
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

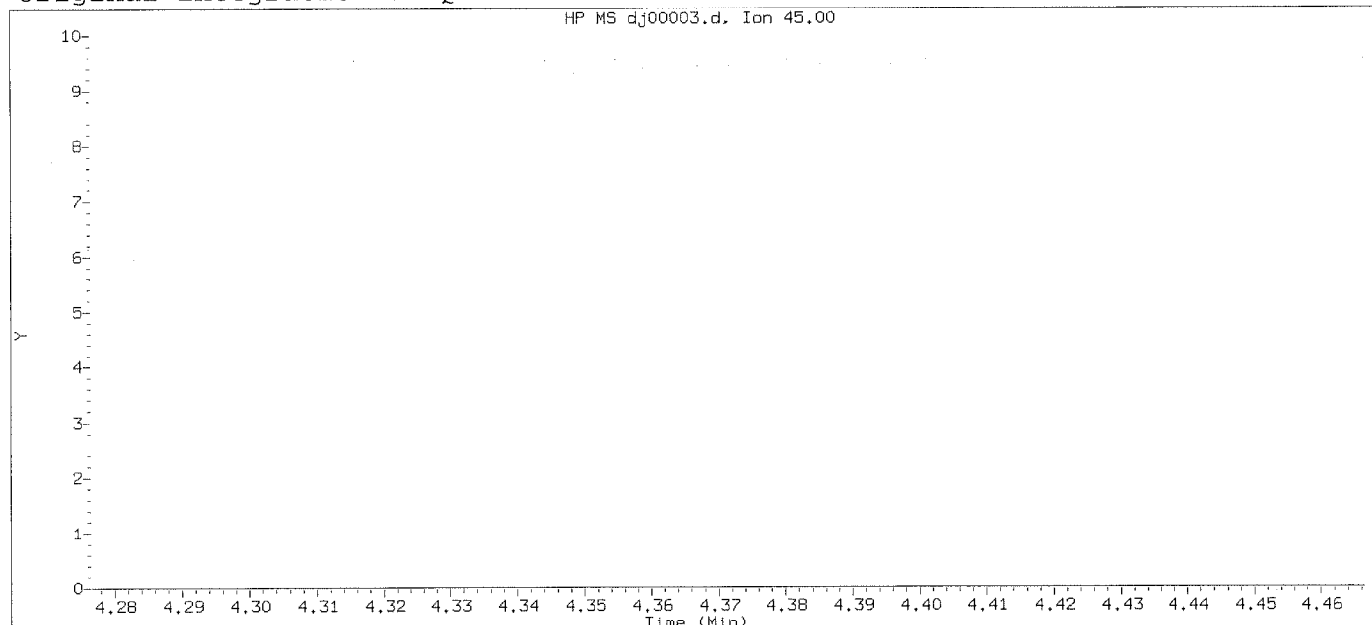
Compound Number : 19
Compound Name : Acetone
Expected RT (minutes) : 3.980
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



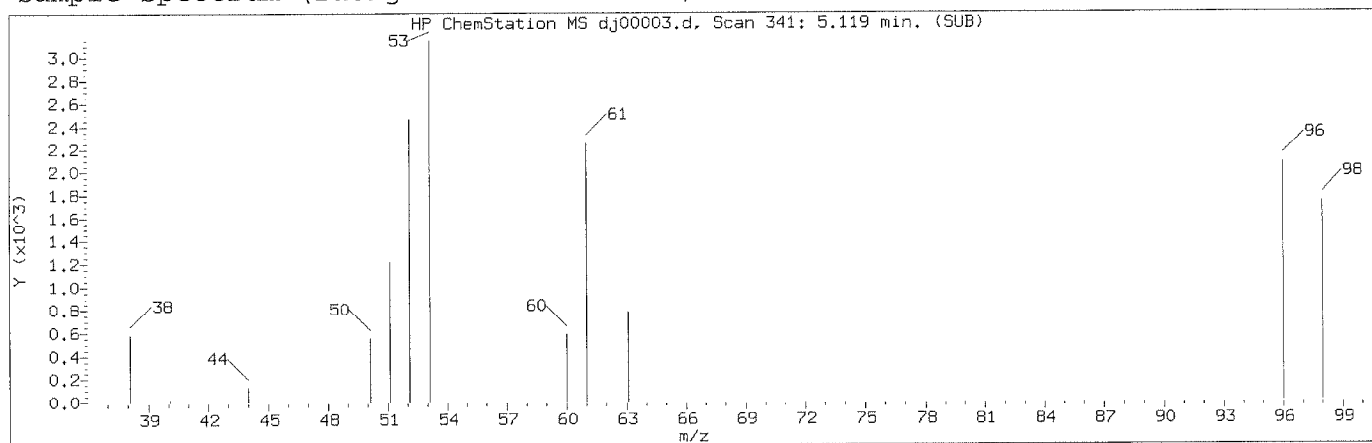
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

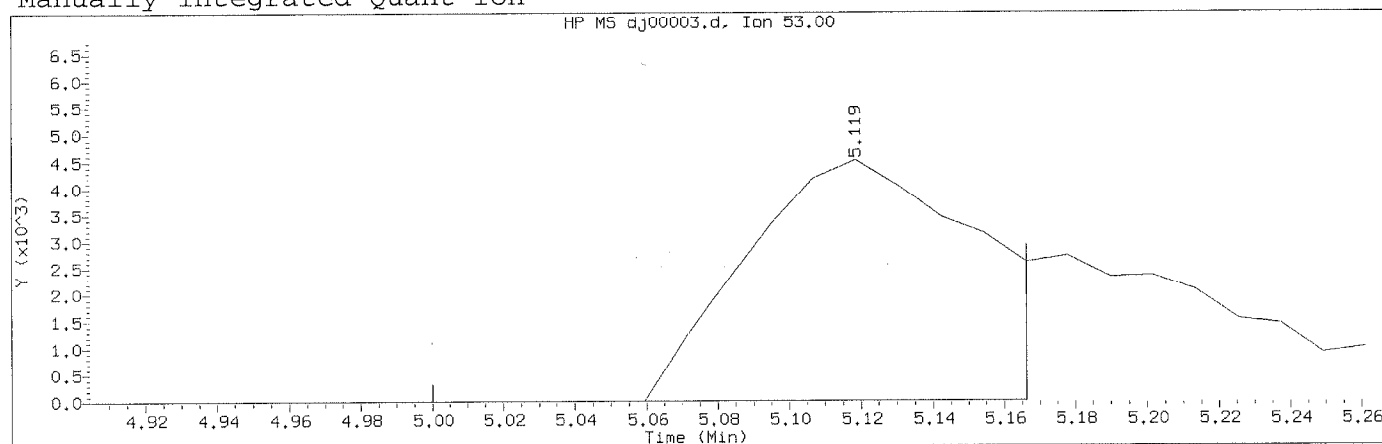
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.371
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 02-OCT-2015 10:43
 Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

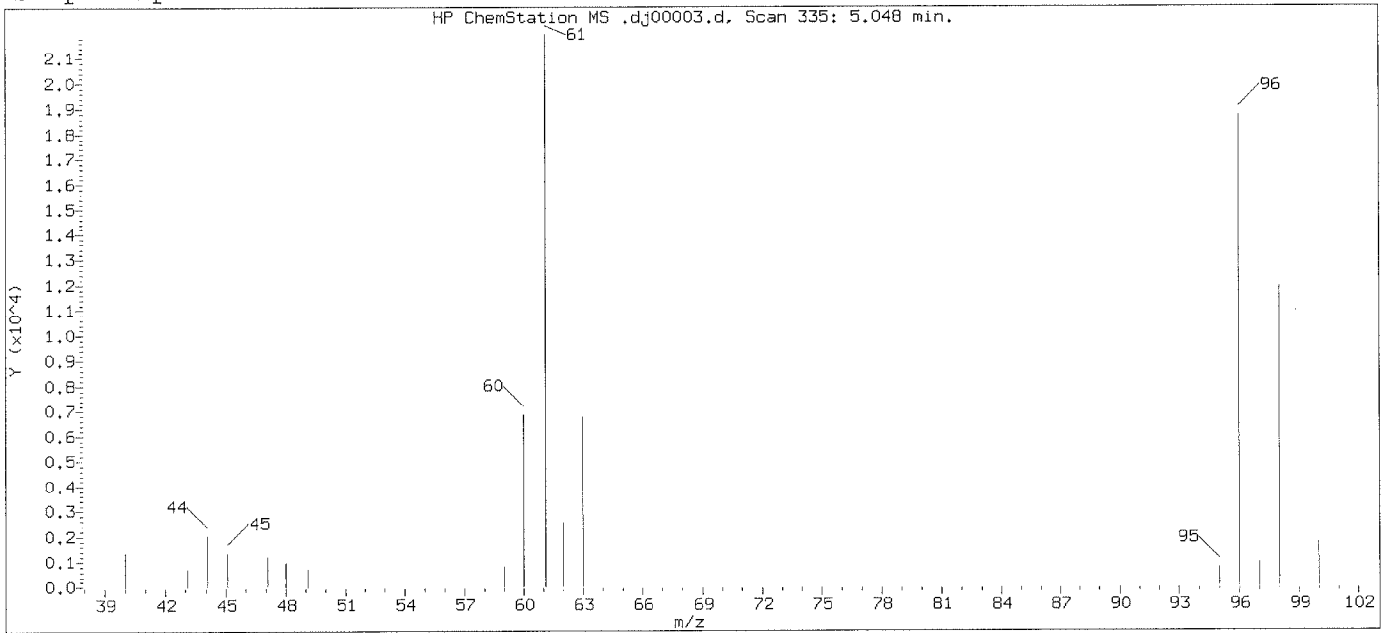
Compound Number : 27
 Compound Name : Acrylonitrile
 Scan Number : 341
 Retention Time (minutes): 5.119
 Quant Ion : 53.00
 Area (flag) : 20463M
 Concentration (ppb(v)) : 0.7563
 Integration start scan : 330 Integration stop scan: 344
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

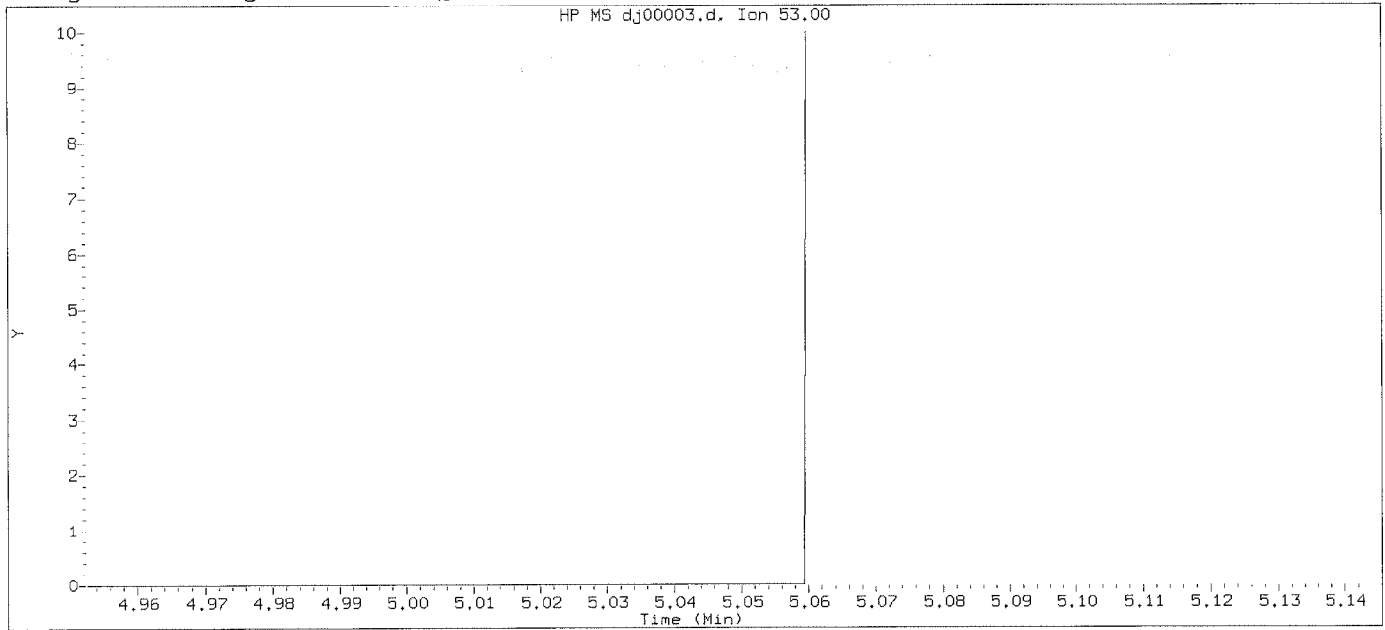
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omuy 4/2 10/5/15

Sample Spectrum



Original Integration of Quant Ion



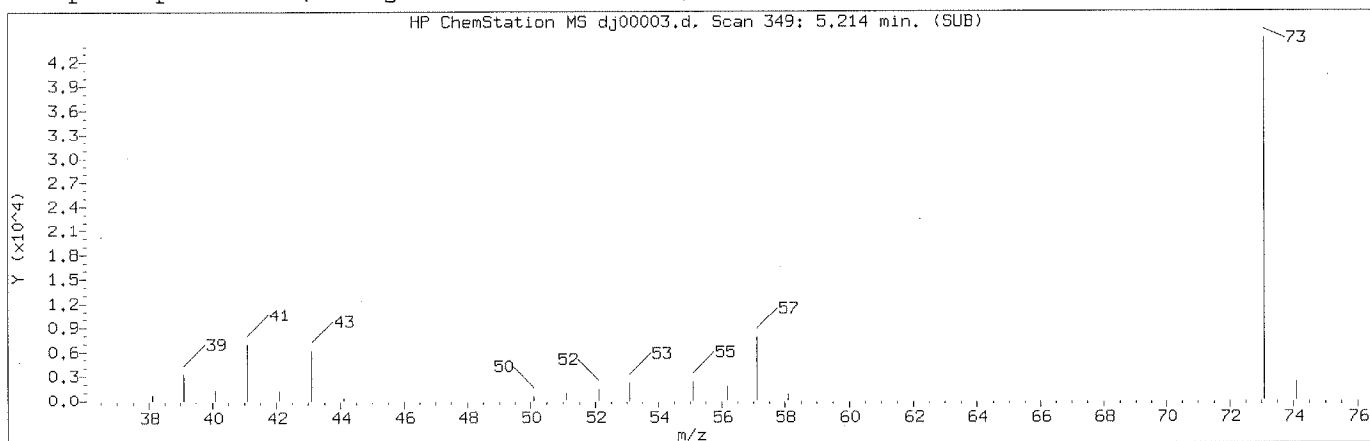
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 12:28
 Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

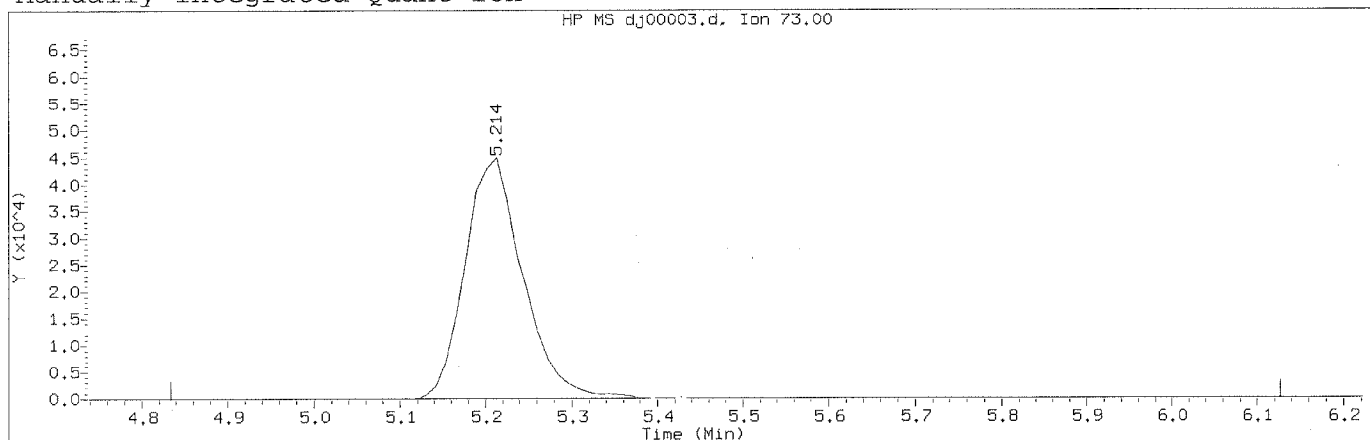
Compound Number : 27
 Compound Name : Acrylonitrile
 Expected RT (minutes) : 5.047
 Quant Ion : 53.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 02-OCT-2015 10:43
 Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

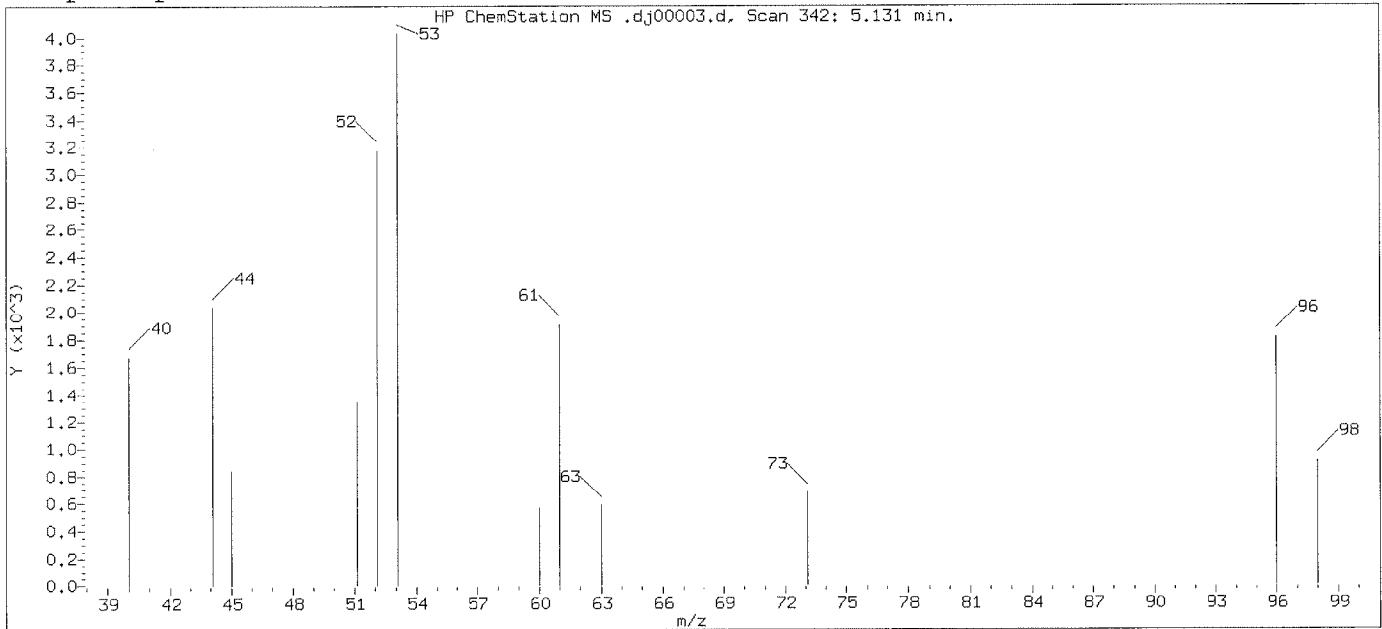
Compound Number : 29
 Compound Name : Methyl t-Butyl Ether
 Scan Number : 349
 Retention Time (minutes): 5.214
 Quant Ion : 73.00
 Area (flag) : 210169M
 Concentration (ppb(v)) : 1.0611
 Integration start scan : 316 Integration stop scan: 425
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

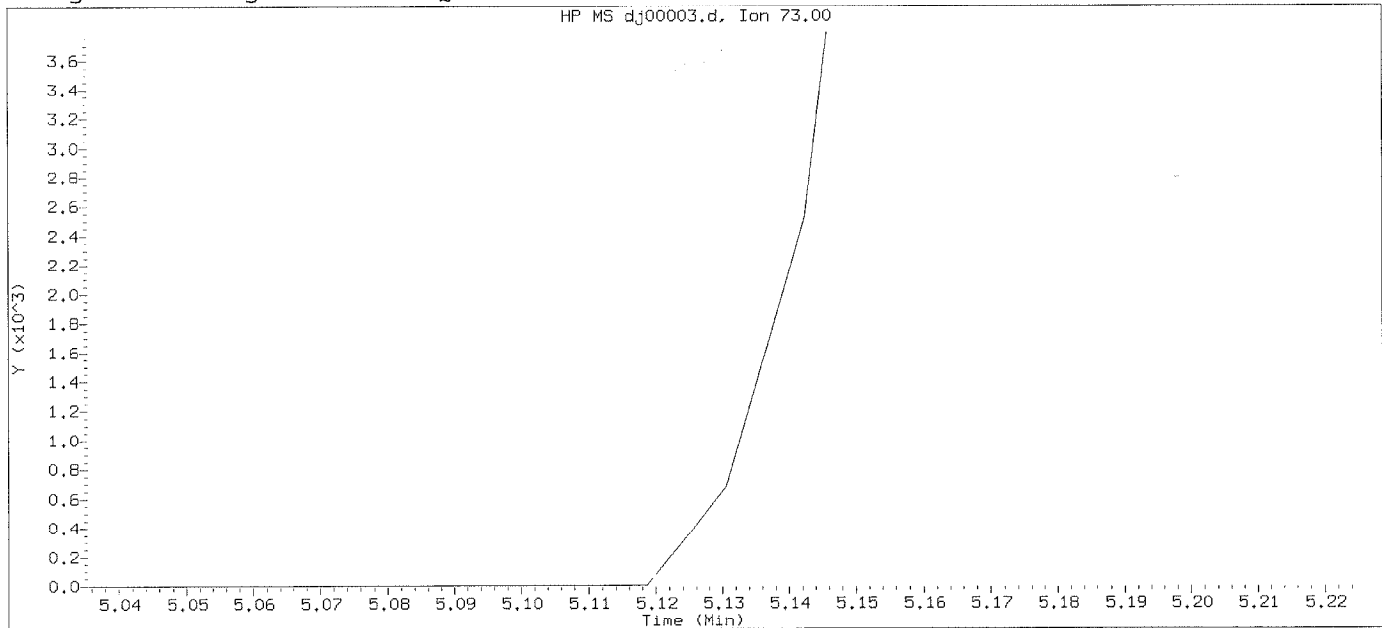
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Cmuy 412 10/5/15

Sample Spectrum



Original Integration of Quant Ion



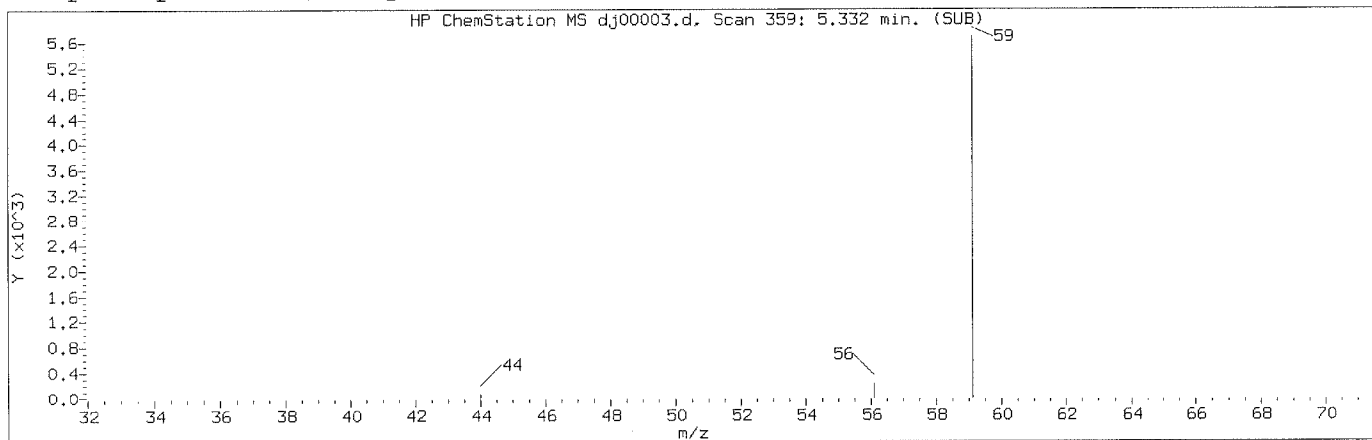
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 12:28
 Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

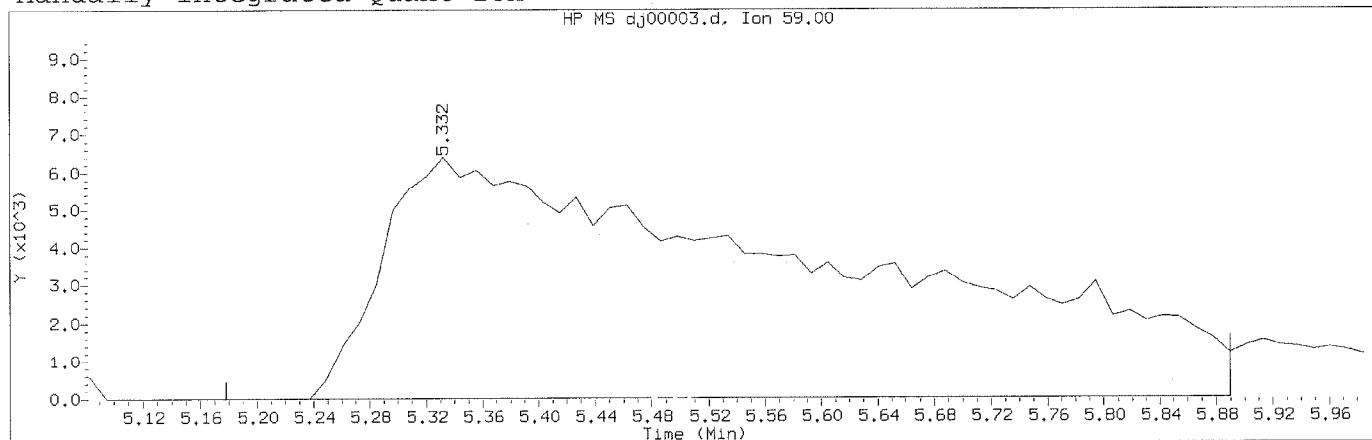
Compound Number : 29
 Compound Name : Methyl t-Butyl Ether
 Expected RT (minutes) : 5.130
 Quant Ion : 73.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 359
Retention Time (minutes): 5.332
Quant Ion : 59.00
Area (flag) : 142101M
Concentration (ppb(v)) : 1.0374
Integration start scan : 345 Integration stop scan: 405
Y at integration start : 0 Y at integration end: 0

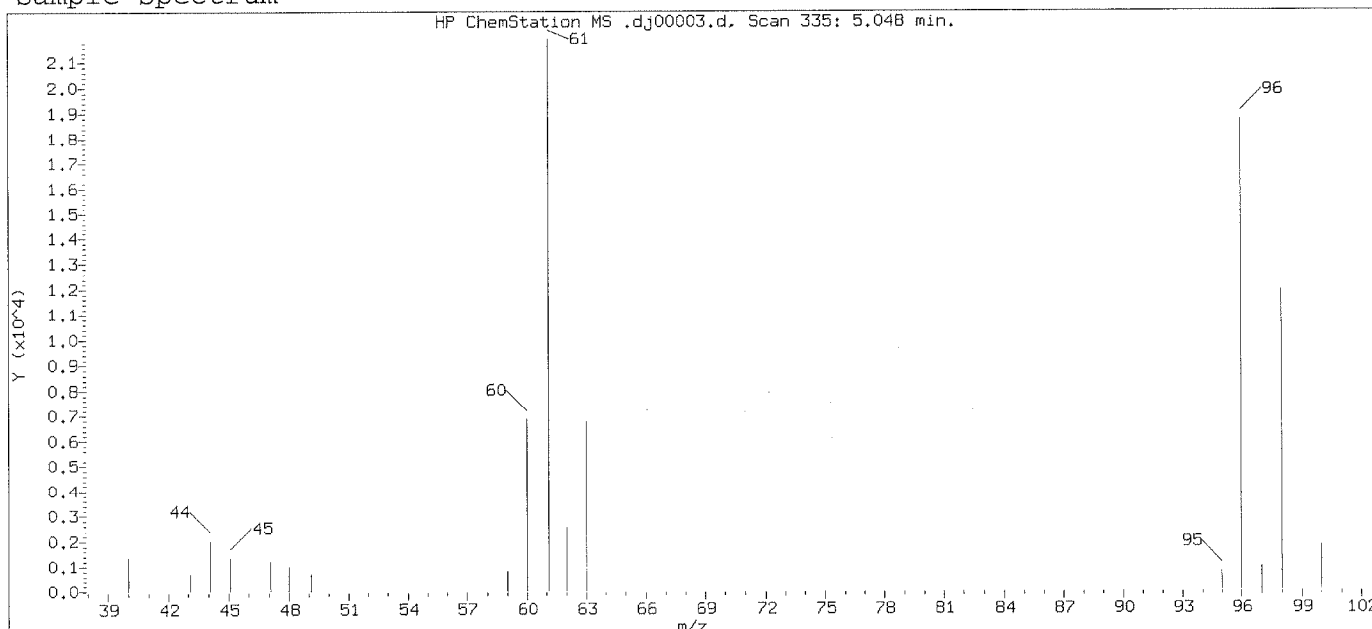
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

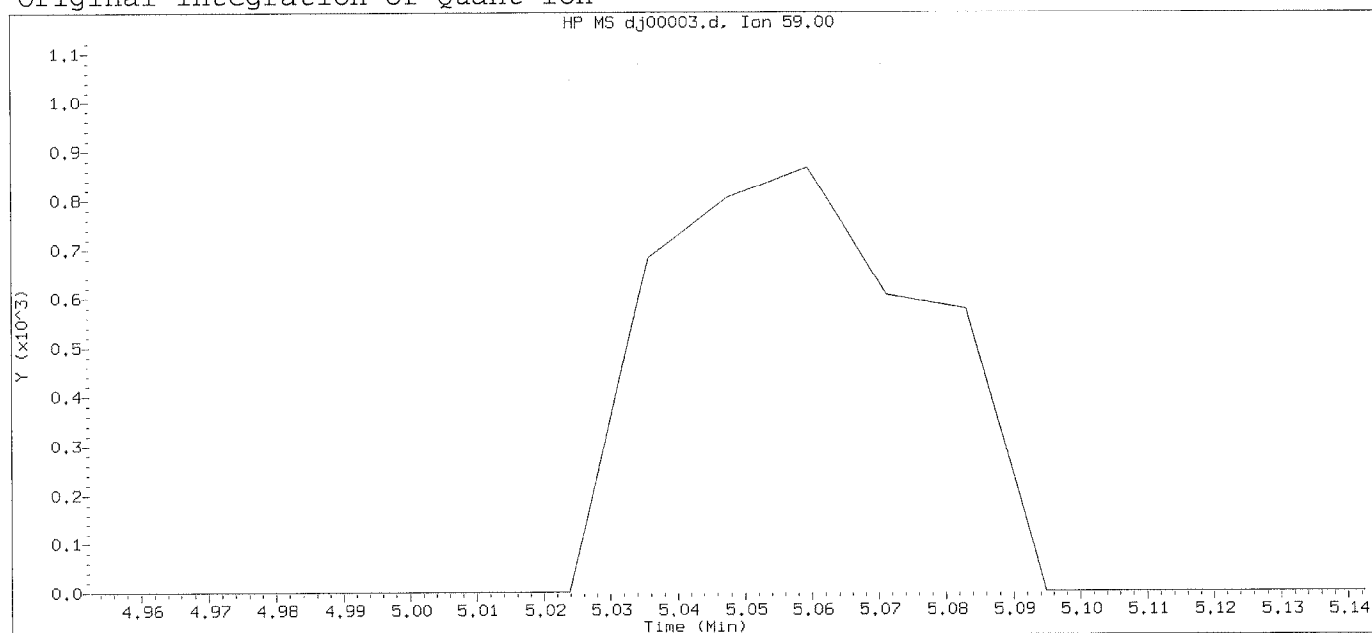
GC/MS audit/management approval: _____

Omny 10/5/15

Sample Spectrum



Original Integration of Quant Ion



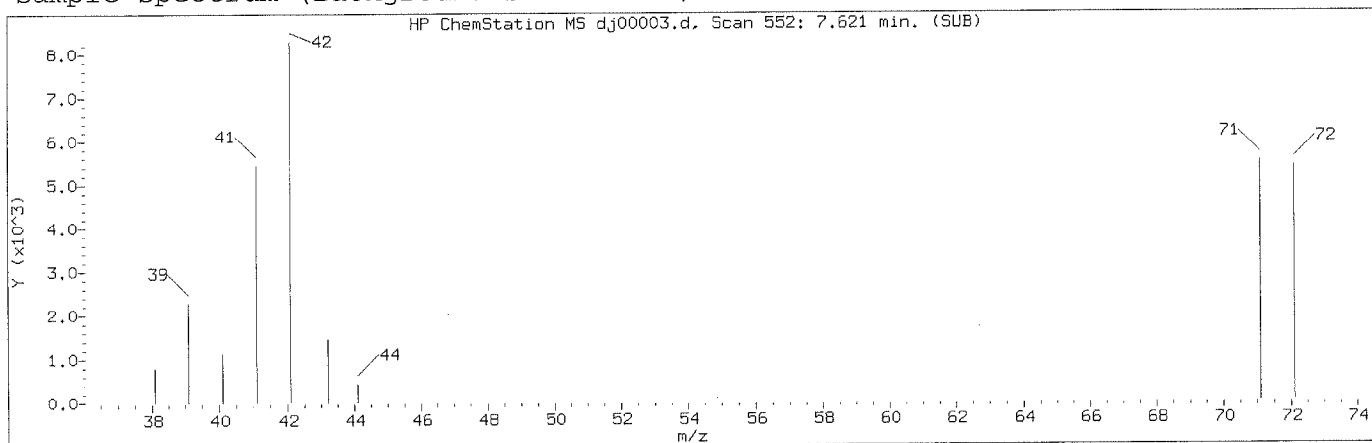
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

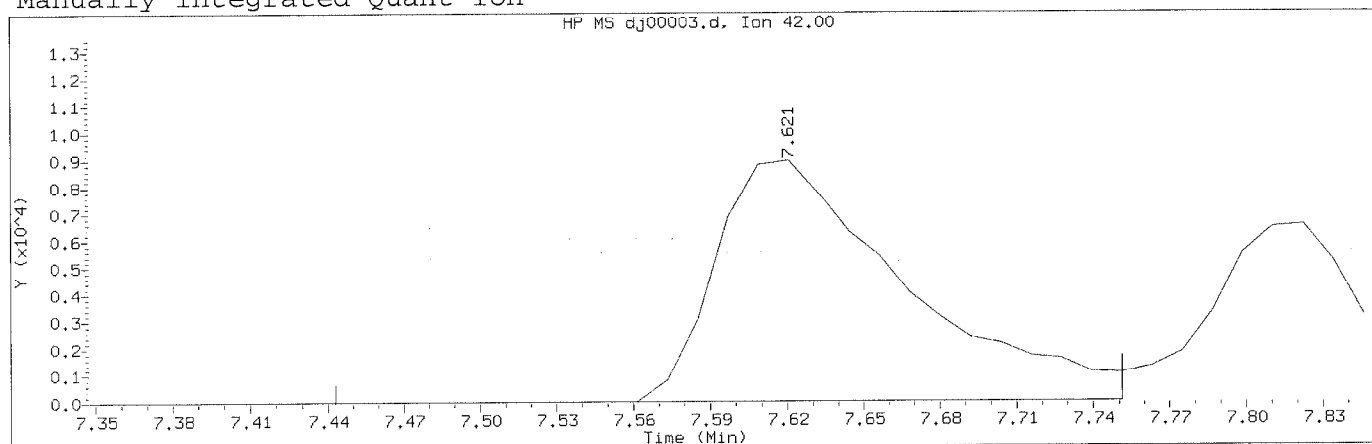
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Expected RT (minutes) : 5.047
Quant Ion : 59.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d
Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 552
Retention Time (minutes): 7.621
Quant Ion : 42.00
Area (flag) : 46289M
Concentration (ppb(v)) : 0.9767
Integration start scan : 536 Integration stop scan: 562
Y at integration start : 0 Y at integration end: 0

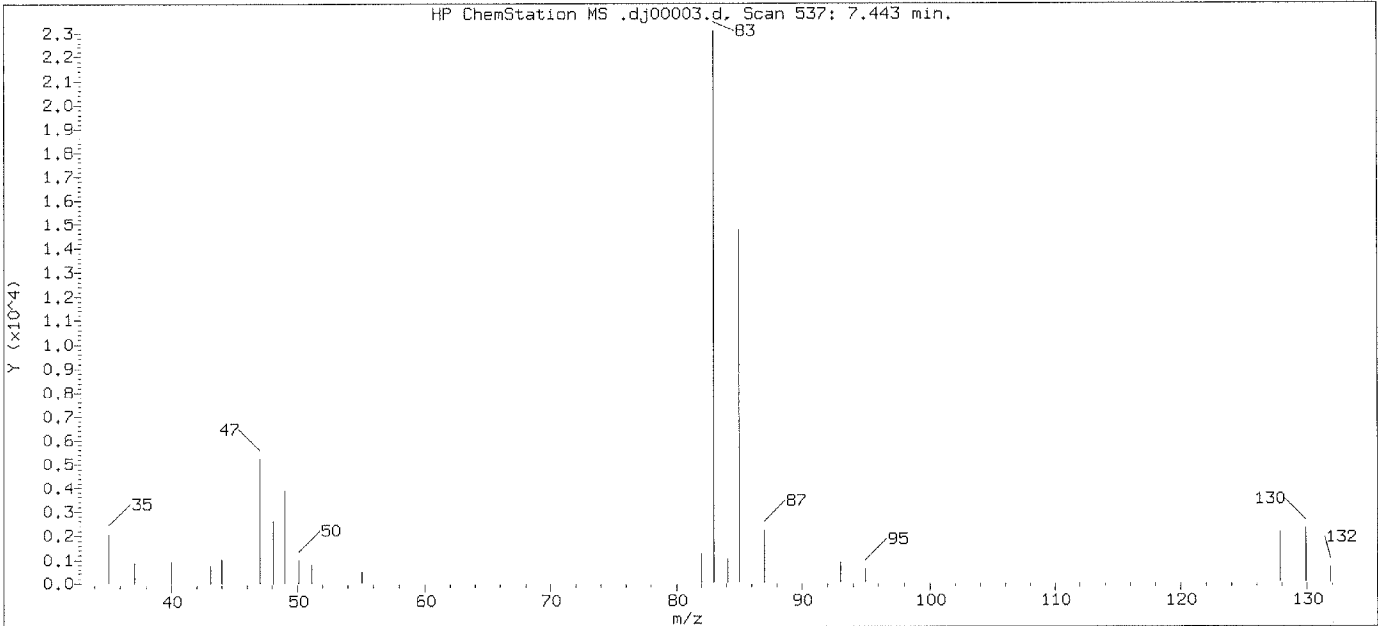
Reason for manual integration: missed peak

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

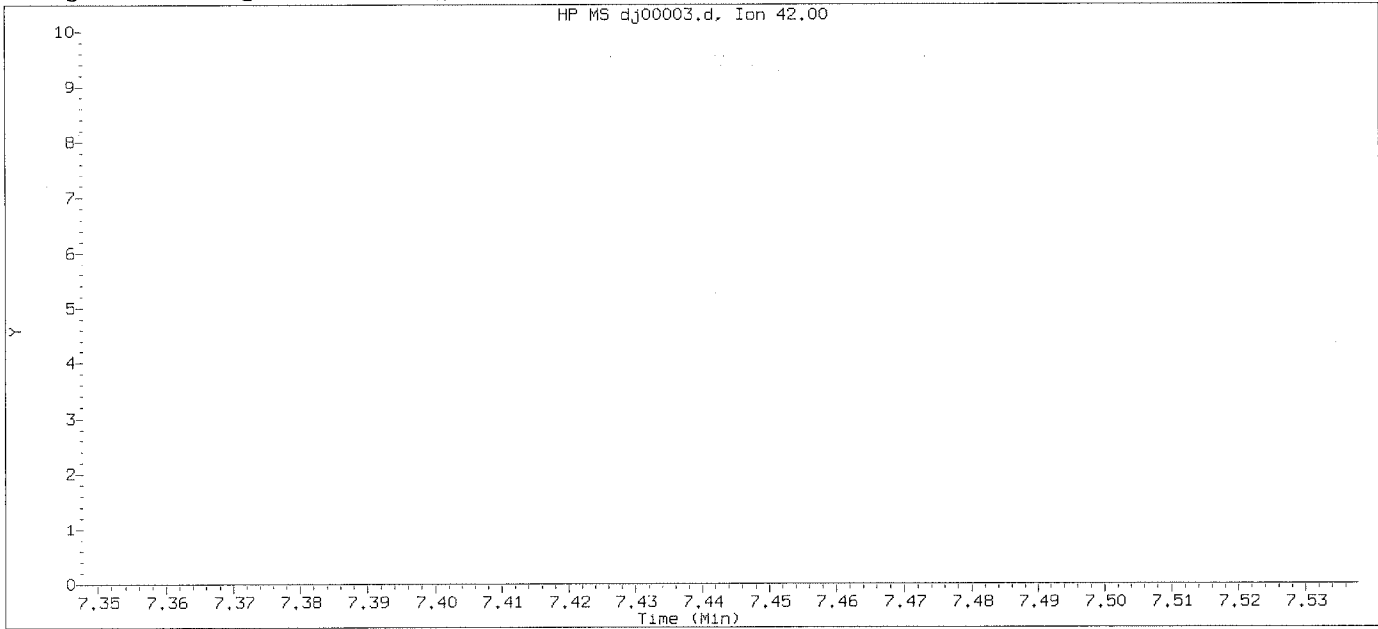
GC/MS audit/management approval: _____

Omny 412 10/5/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

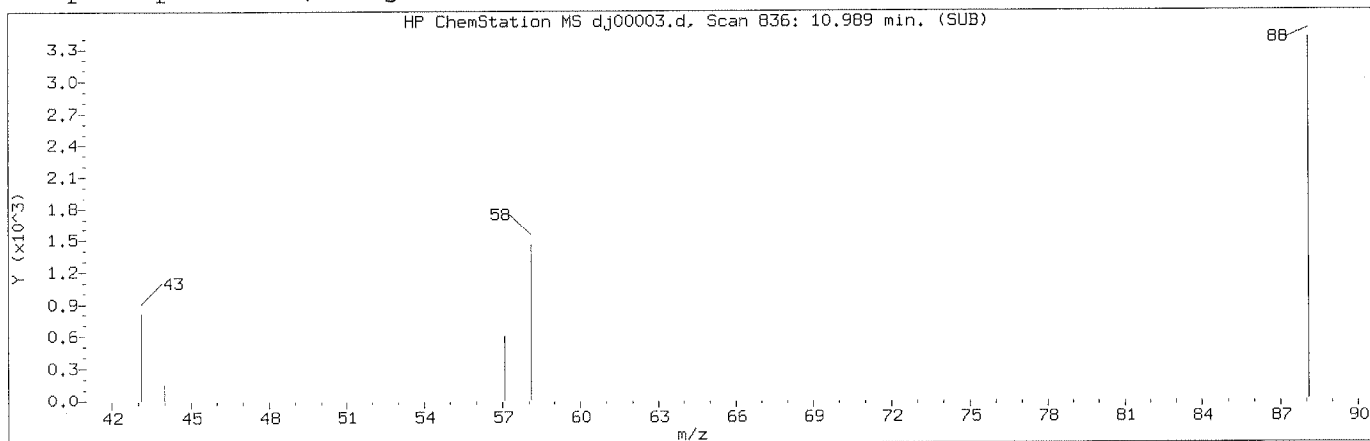
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

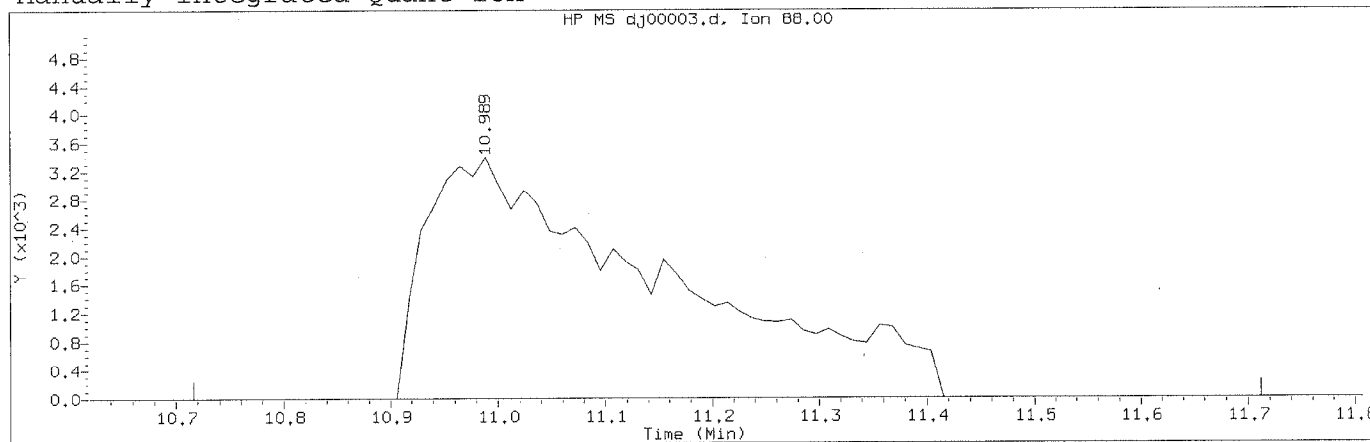
Compound Number : 41
Compound Name : Tetrahydrofuran
Expected RT (minutes) : 7.443
Quant Ion : 42.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 02-OCT-2015 10:43
Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sample Name: VSTD001

Lab Sample ID: VSTD001

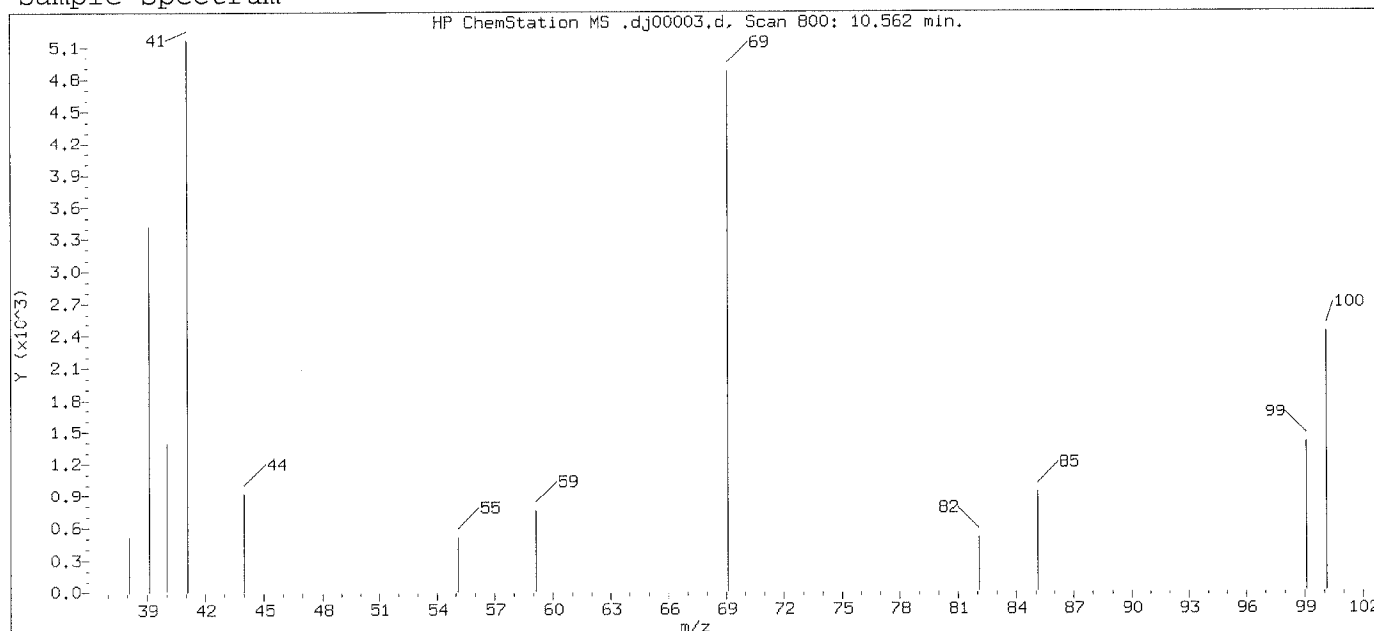
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 836
Retention Time (minutes): 10.989
Quant Ion : 88.00
Area (flag) : 52181M
Concentration (ppb(v)) : 0.9685
Integration start scan : 812 Integration stop scan: 896
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

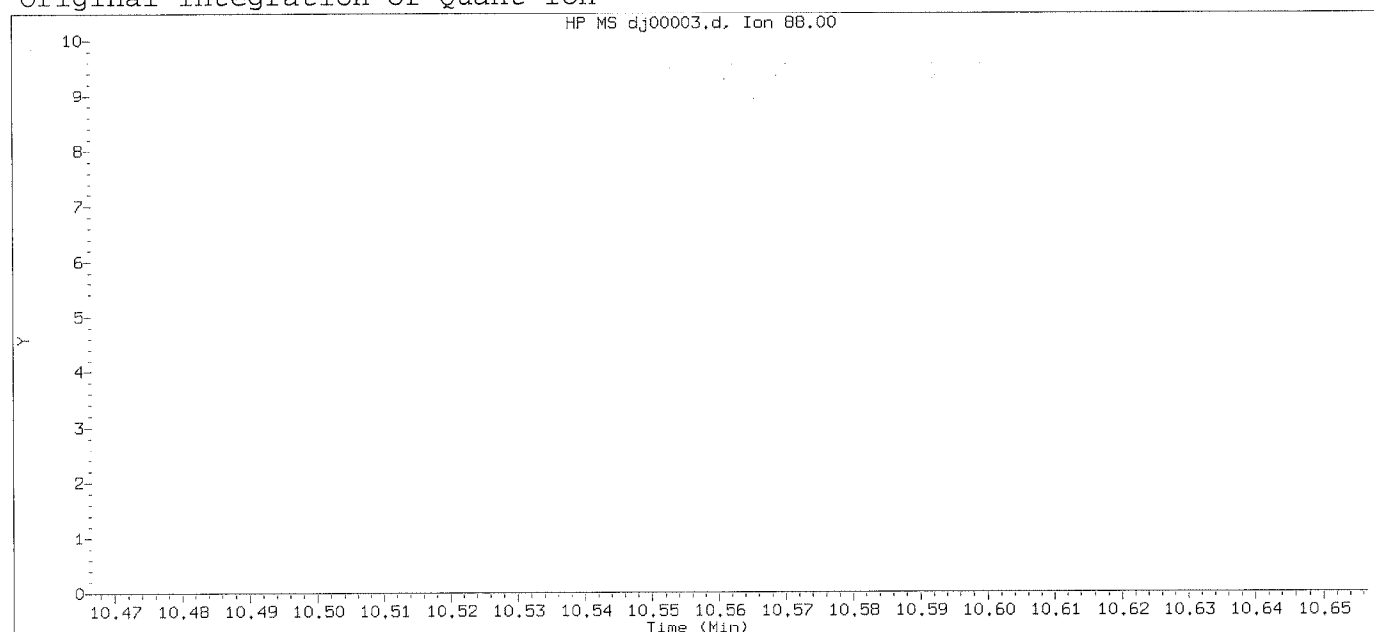
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 412 10/5/15

Sample Spectrum



Original Integration of Quant Ion



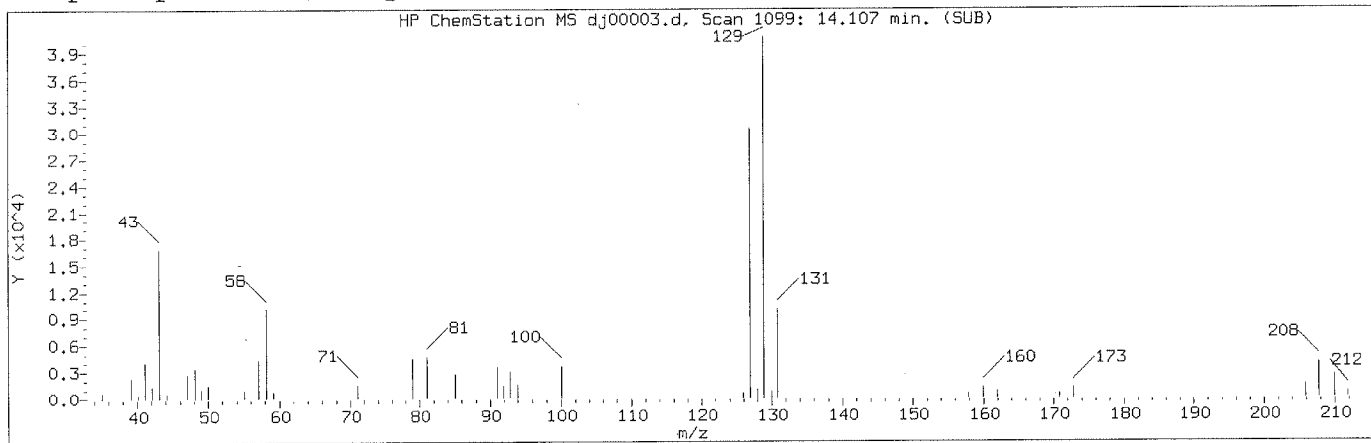
Data File: /chem/HP10145.i/15oct01.b/dj00003.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:15 Analyst ID: jbs01304
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 12:28
Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001 Lab Sample ID: VSTD001

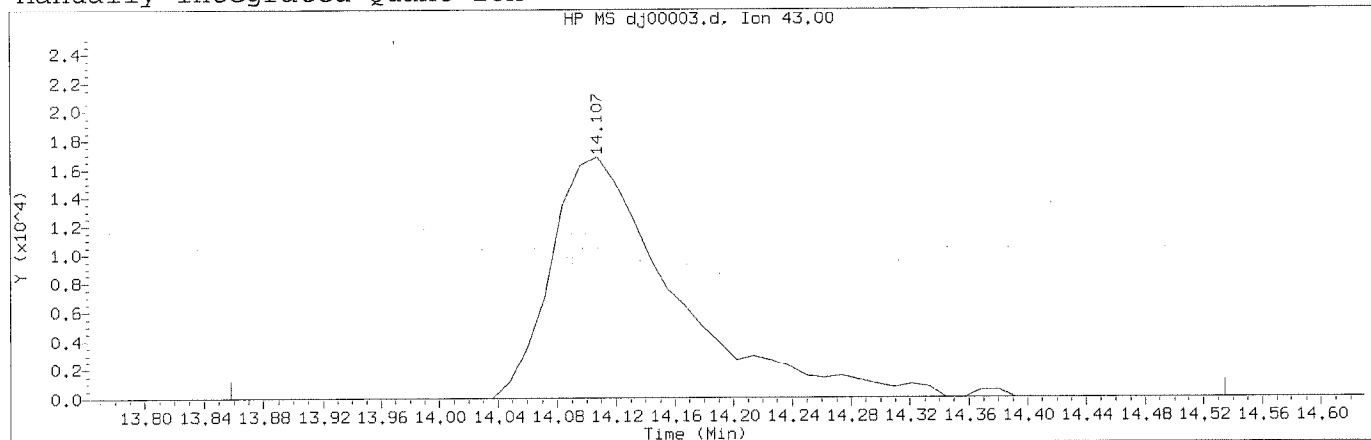
Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.562
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d
 Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:43
 Date, time and analyst ID of latest file update: 02-Oct-2015 10:43 jbs01304

Sublist used: all

Sample Name: VSTD001

Lab Sample ID: VSTD001

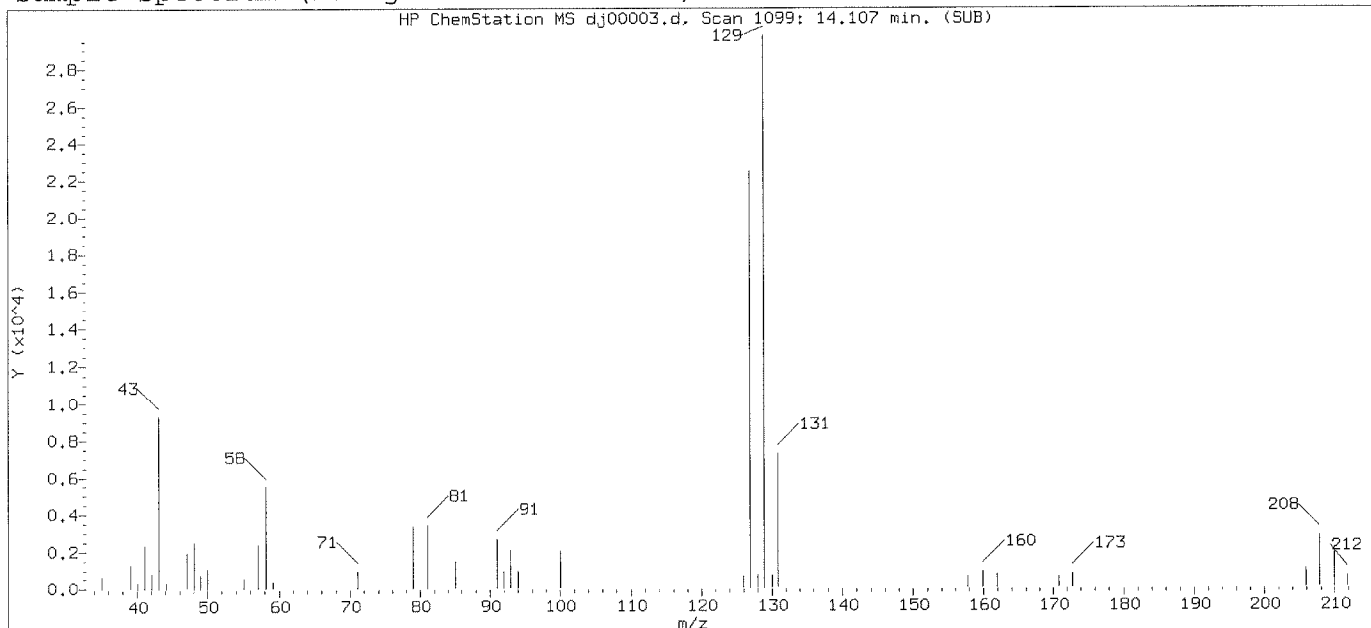
Compound Number : 68
 Compound Name : 2-Hexanone
 Scan Number : 1099
 Retention Time (minutes): 14.107
 Quant Ion : 43.00
 Area (flag) : 98977M
 Concentration (ppb(v)) : 0.9736
 Integration start scan : 1077 Integration stop scan: 1134
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

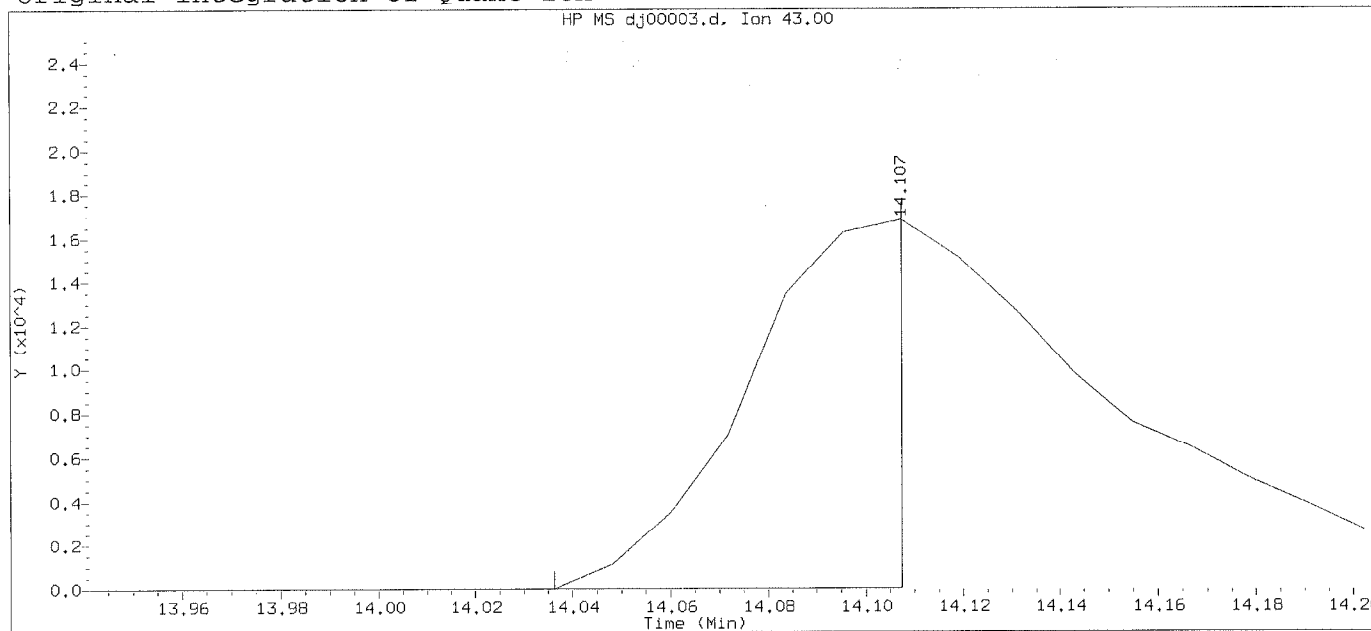
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 422 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00003.d
 Injection date and time: 01-OCT-2015 13:15

Instrument ID: HP10145.i
 Analyst ID: jbs01304

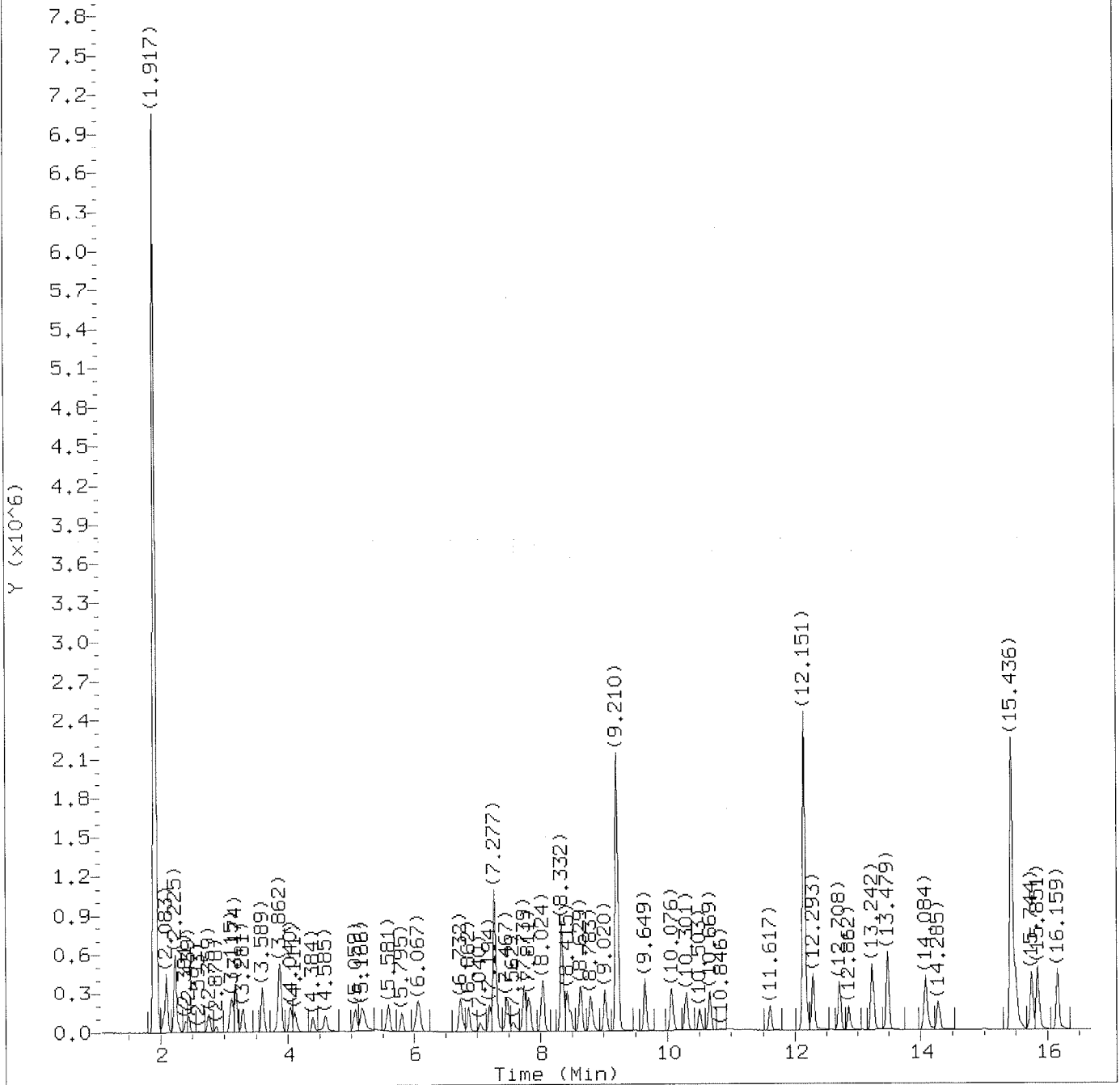
Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 12:28
 Date, time and analyst ID of latest file update: 01-Oct-2015 13:56 Automation

Sample Name: VSTD001

Lab Sample ID: VSTD001

Compound Number : 68
 Compound Name : 2-Hexanone
 Scan Number : 1099
 Retention Time (minutes): 14.107
 Quant Ion : 43.00
 Area : 35405
 Concentration (ppb(v)) : 0.2765
 Integration start scan : 1092 Integration stop scan: 1098
 Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:43.
 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

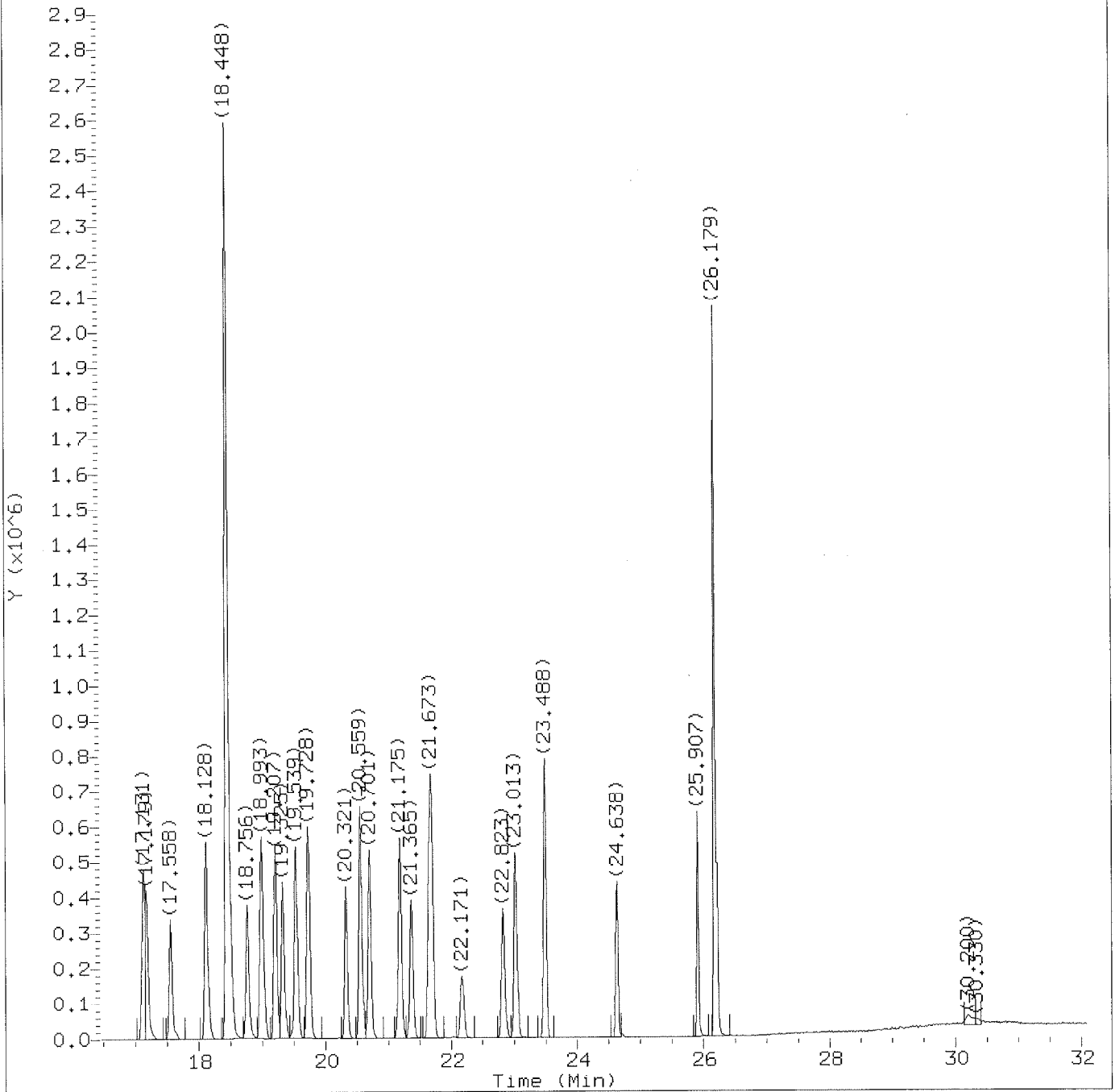
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00004.d
 Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 14:51

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	63086	1.946
2) Dichlorodifluoromethane	(1)	2.083	85	460113	1.922
3) Chlorodifluoromethane	(1)	2.095	51	165954	2.023
4) Freon 114	(1)	2.225	85	369174	1.902
5) Chloromethane	(1)	2.273	52	28855	1.996
6) Vinyl Chloride	(1)	2.391	62	107387	1.890
7) 1,3-Butadiene	(1)	2.439	54	71009	1.938
8) Bromomethane	(1)	2.759	94	135485	1.847
9) Chloroethane	(1)	2.878	64	58539	1.813
10) Bromoethene	(1)	3.091	106	143709	1.990
11) Dichlorofluoromethane	(1)	3.127	67	280634	1.969
12) Trichlorofluoromethane	(1)	3.174	101	483706	1.906
13) Pentane	(1)	3.281	43	152871	1.964
15) Freon123a	(1)	3.589	67	249624	2.095
14) Ethanol	(1)	3.743	45	23218M	1.160
16) Acrolein	(1)	3.791	56	19532	1.653
17) 1,1-Dichloroethene	(1)	3.838	61	192371	1.883
18) Freon 113	(1)	3.874	103	205812	1.818
20) Methyl Iodide	(1)	4.028	142	339372	1.983
19) Acetone	(1)	4.063	43	150005M	2.024
21) Carbon Disulfide	(1)	4.111	76	349790	1.853
24) 3-Chloropropene	(1)	4.395	76	68191M	2.172
23) Acetonitrile	(1)	4.395	40	14967	1.957
22) Isopropanol	(1)	4.526	45	151029M	1.876
25) Methylene Chloride	(1)	4.585	84	108913	2.066
28) trans-1,2-Dichloroethene	(1)	5.048	61	151586	1.908
27) Acrylonitrile	(1)	5.083	53	39277	2.118
29) Methyl t-Butyl Ether	(1)	5.166	73	342565	1.891
26) tert-Butyl Alcohol	(1)	5.225	59	257968M	2.158
30) Hexane	(1)	5.581	57	175061	1.926
31) 1,1-Dichloroethane	(1)	5.795	63	220807	1.940
32) Vinyl Acetate	(1)	6.020	86	21726	1.561
33) Di-Isopropyl Ether	(1)	6.056	45	303942	2.031
36) 1,2-Dichloroethene (total)	(1)		61	313571	3.940
34) Ethyl Tert-Butyl Ether	(1)	6.732	59	397837	1.961
35) cis-1,2-Dichloroethene	(1)	6.862	61	161985	2.032
37) 2-Butanone	(1)	7.052	72	56408	2.171
38) Ethyl Acetate	(1)	7.194	70	39527	2.232

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00004.d
 Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 14:51

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.194	55	157440	2.111
40) *Bromochloromethane	(1)	7.277	130	777208	10.000
42) Chloroform	(1)	7.467	83	323045	1.951
41) Tetrahydrofuran	(1)	7.562	42	84670M	1.969
43) 1,1,1-Trichloroethane	(1)	7.739	97	411781	1.948
44) Cyclohexane	(1)	7.811	56	184867	1.942
45) Carbon Tetrachloride	(1)	8.036	117	440770	1.969
46) Benzene	(2)	8.415	78	441390	2.050
47) 1,2-Dichloroethane	(2)	8.475	62	204707	2.003
48) Isooctane	(2)	8.629	57	574035	2.002
49) Tert-Amyl Methyl Ether	(2)	8.783	73	430138	2.127
50) Heptane	(2)	9.020	43	173279	2.043
51) *1,4-Difluorobenzene	(2)	9.210	114	3052148	10.000
52) Trichloroethene	(2)	9.649	130	225403	2.008
53) Ethyl Acrylate	(2)	10.064	55	210867	2.223
54) 1,2-Dichloropropane	(2)	10.076	63	125921	2.030
55) Dibromomethane	(2)	10.301	174	229610	2.054
57) Methyl Methacrylate	(2)	10.503	69	121785	2.046
58) Bromodichloromethane	(2)	10.669	83	343716	2.018
56) 1,4-Dioxane	(2)	10.870	88	97521M	2.051
59) cis-1,3-Dichloropropene	(2)	11.617	75	187875	1.892
60) 4-Methyl-2-Pentanone	(2)	12.127	43	206427	2.068
61) Toluene	(3)	12.293	91	567035	2.070
62) Octane	(3)	12.708	43	222496	2.028
63) trans-1,3-Dichloropropene	(3)	12.862	75	195150	2.037
64) 1,3-Dichloropropene (total)	(3)		75	383025	3.929
65) Ethyl Methacrylate	(3)	13.242	69	210062	2.117
66) 1,1,2-Trichloroethane	(3)	13.242	97	191451	2.075
67) Tetrachloroethene	(3)	13.479	166	361694	2.070
68) 2-Hexanone	(3)	14.060	43	169569	2.074
69) Dibromochloromethane	(3)	14.084	127	271930	1.959
70) 1,2-Dibromoethane	(3)	14.285	107	282297	1.964
71) *Chlorobenzene-d5	(3)	15.436	117	2717435	10.000
72) Chlorobenzene	(3)	15.507	112	459170	2.068
73) 1,1,1,2-Tetrachloroethane	(3)	15.744	131	272781	2.081
74) Ethylbenzene	(3)	15.851	91	731530	2.091
75) m/p-Xylene	(3)	16.159	91	588447	1.911
76) o-Xylene	(3)	17.120	91	621378	2.097

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00004.d
 Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 14:51

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

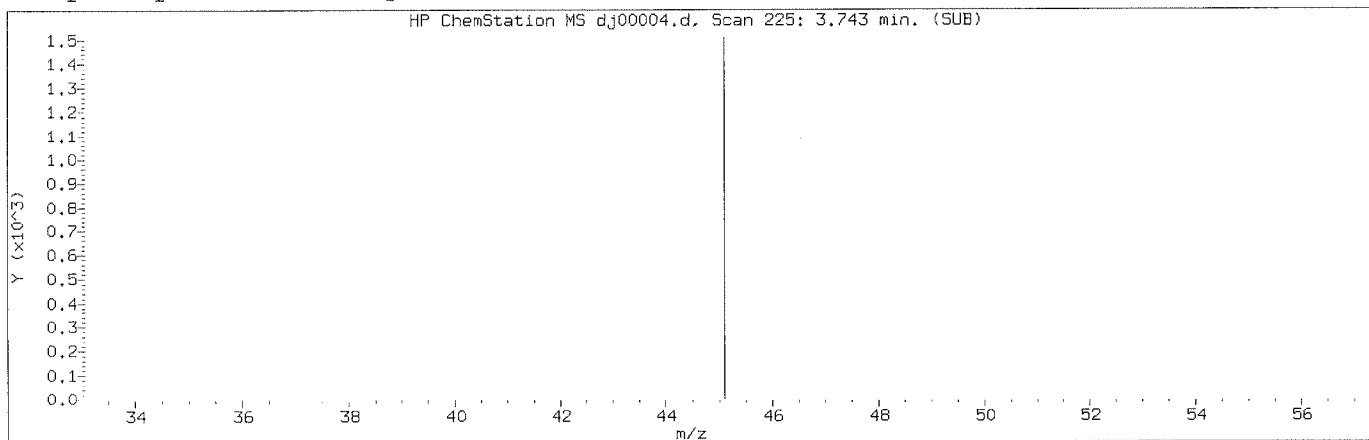
Sample Name: VSTD002

Lab Sample ID: VSTD002

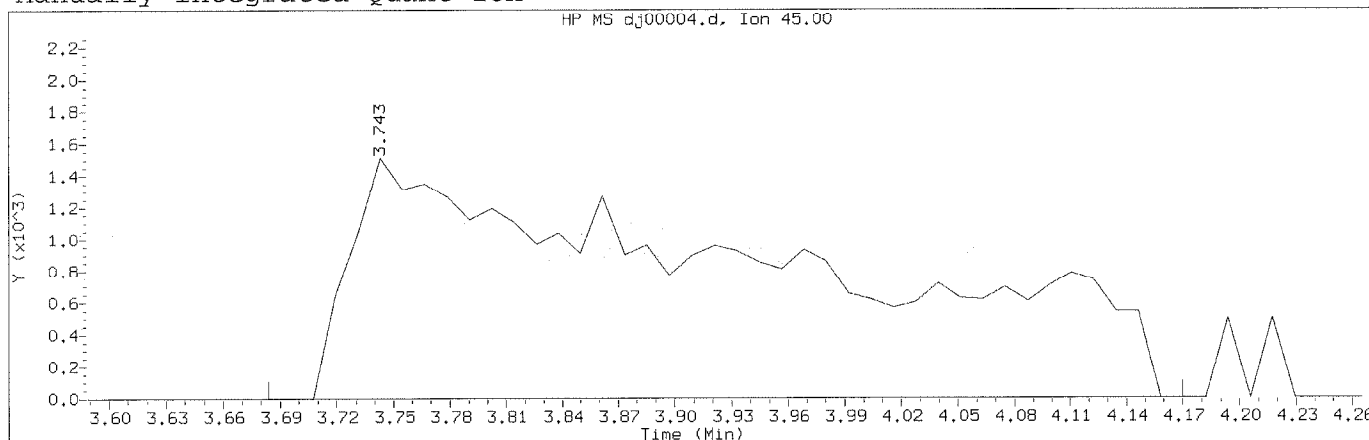
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	444679	2.073
77) Xylene (total)	(3)		91	1209825	4.008
79) Bromoform	(3)	17.558	173	358250	2.008
80) Cumene	(3)	18.128	105	876127	2.027
81) Bromobenzene	(3)	18.756	156	280665	2.122
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	375156	2.087
83) 1,2,3-Trichloropropane	(3)	19.005	110	130176	2.001
84) n-Propylbenzene	(3)	19.207	120	228920	1.982
85) 2-Chlorotoluene	(3)	19.325	126	194674	2.026
86) 4-Ethyltoluene	(3)	19.539	105	815409	2.012
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	757549	1.989
88) Alpha Methyl Styrene	(3)	20.321	118	308169	2.015
89) tert-Butylbenzene	(3)	20.559	119	762267	1.963
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	724355	2.009
91) sec-Butylbenzene	(3)	21.187	105	992556	1.952
92) 1,3-Dichlorobenzene	(3)	21.365	146	444436	2.099
93) 1,4-Dichlorobenzene	(3)	21.650	146	413865	2.013
94) p-Isopropyltoluene	(3)	21.685	119	868795	1.984
95) Benzyl Chloride	(3)	22.171	91	353511	1.763
96) 1,2-Dichlorobenzene	(3)	22.823	146	409577	1.988
97) n-Butylbenzene	(3)	23.013	91	665501	2.013
98) Hexachloroethane	(3)	23.488	117	271553	2.158
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	216407	1.885
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	270101	1.991
101) Hexachlorobutadiene	(3)	26.179	225	530718	1.893
102) Naphthalene	(3)	26.215	128	479417	2.201

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 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

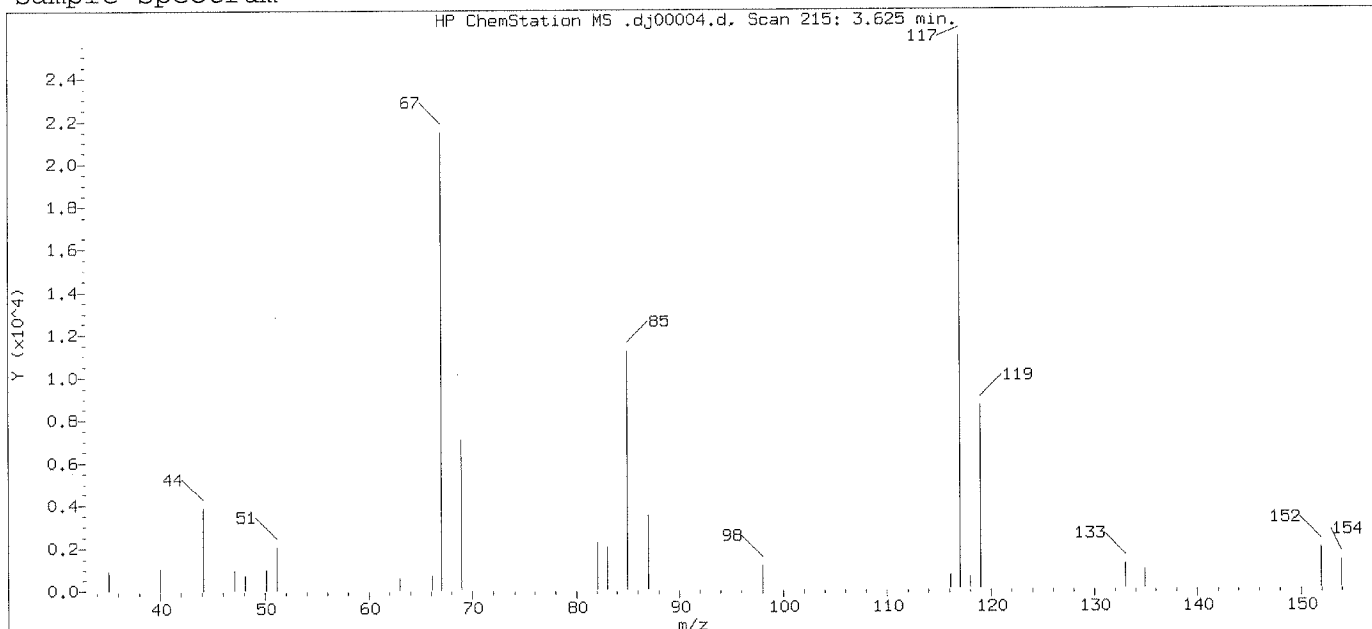
Compound Number : 14
Compound Name : Ethanol
Scan Number : 225
Retention Time (minutes): 3.743
Quant Ion : 45.00
Area (flag) : 23218M
Concentration (ppb(v)) : 1.1600
Integration start scan : 219 Integration stop scan: 260
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

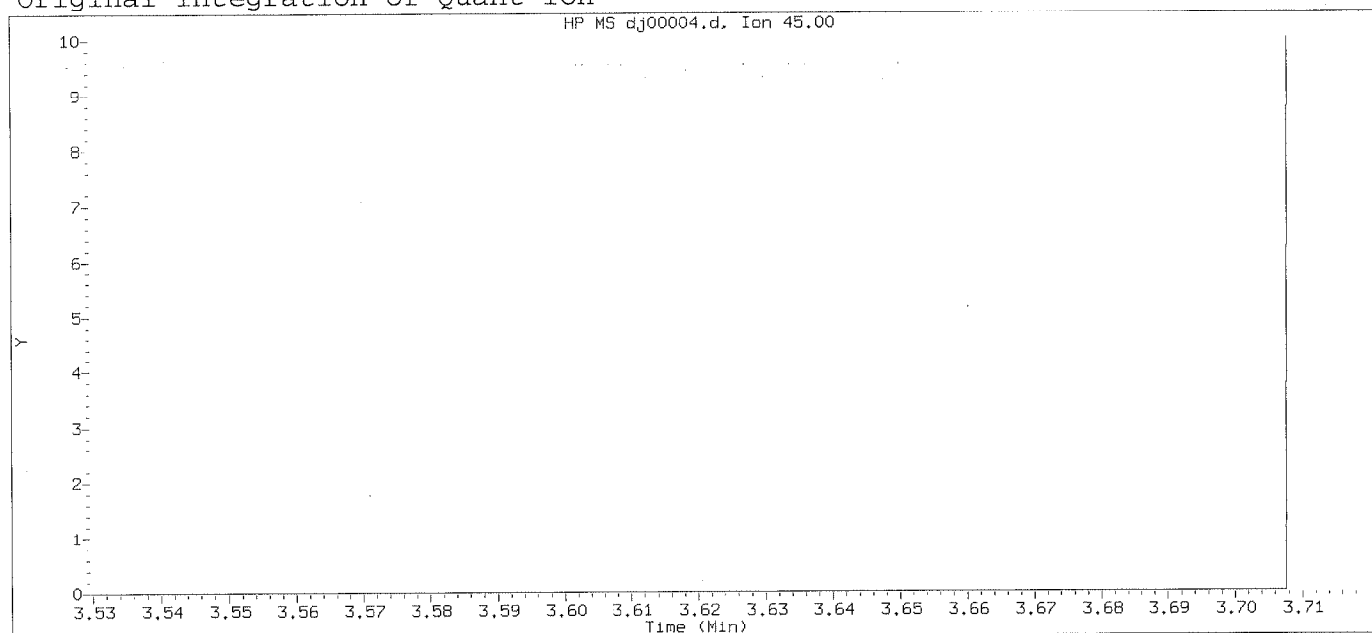
Digitally signed by Jeffrey B. Smith
Analyst responsible for change: on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 4/2 10/5/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:16
Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

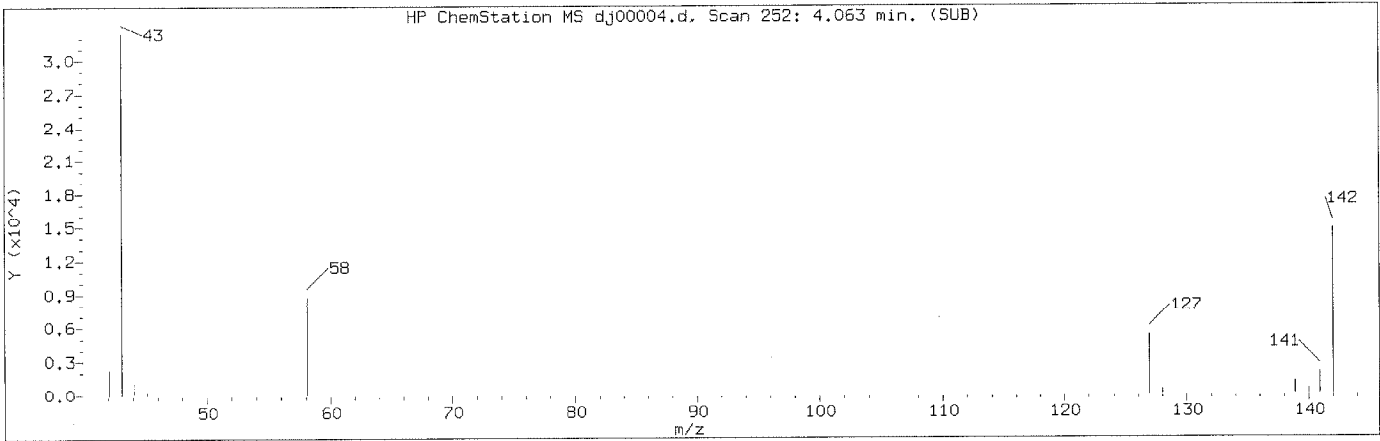
Sample Name: VSTD002

Lab Sample ID: VSTD002

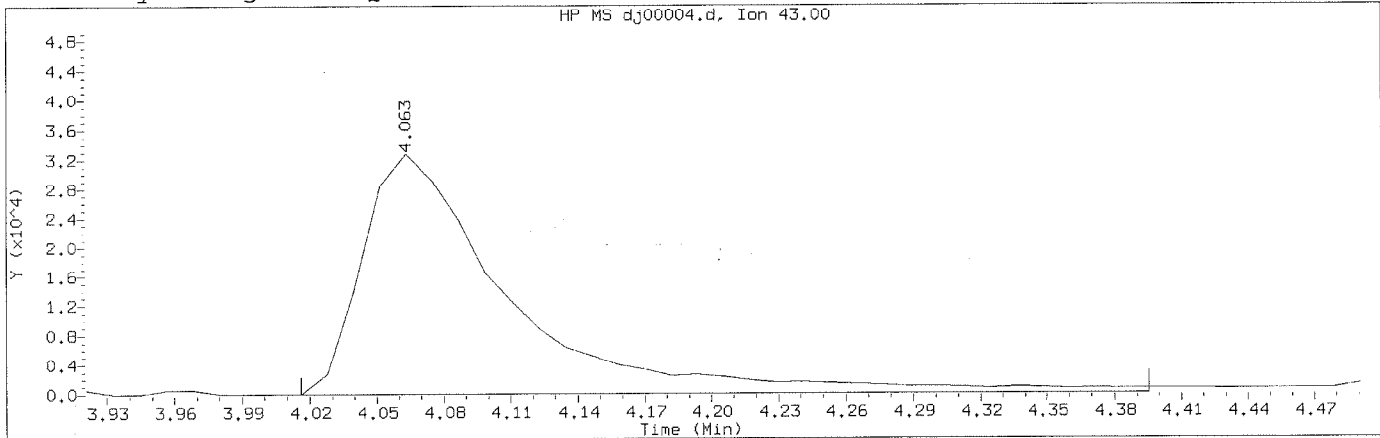
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.624
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:58 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 14:51
 Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

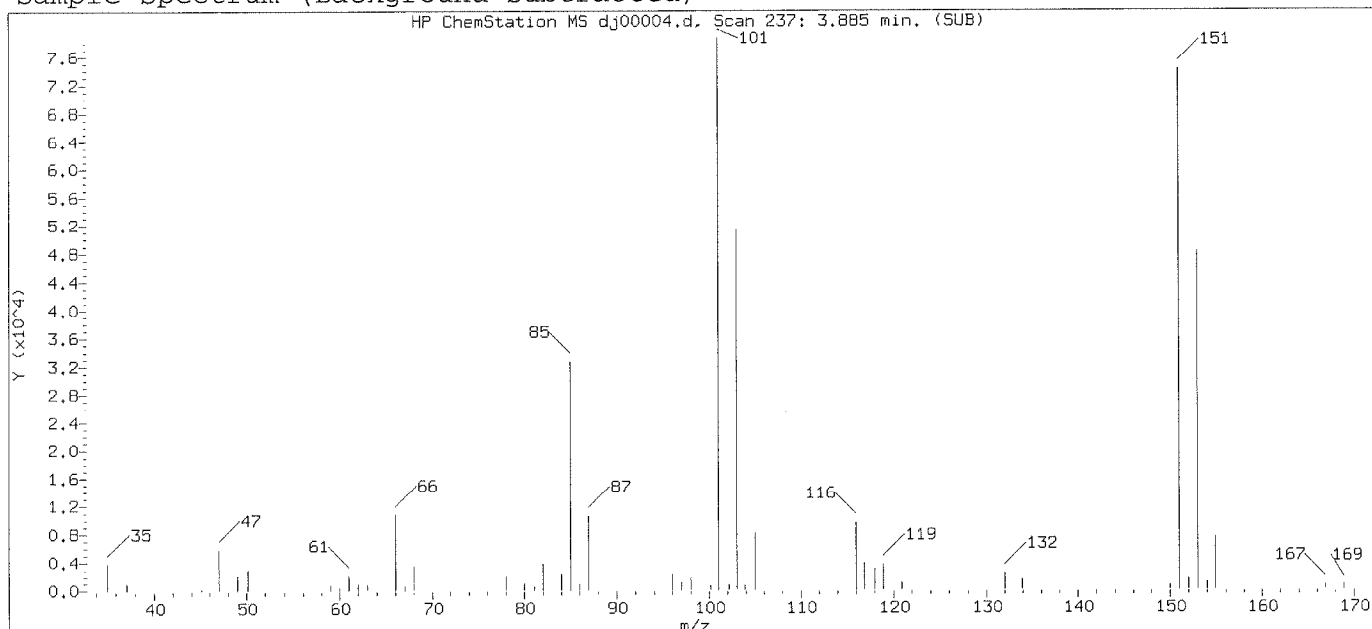
Compound Number : 19
 Compound Name : Acetone
 Scan Number : 252
 Retention Time (minutes): 4.063
 Quant Ion : 43.00
 Area (flag) : 150005M
 Concentration (ppb(v)) : 2.0236
 Integration start scan : 247 Integration stop scan: 279
 Y at integration start : -16 Y at integration end: -16

Reason for manual integration: improper integration

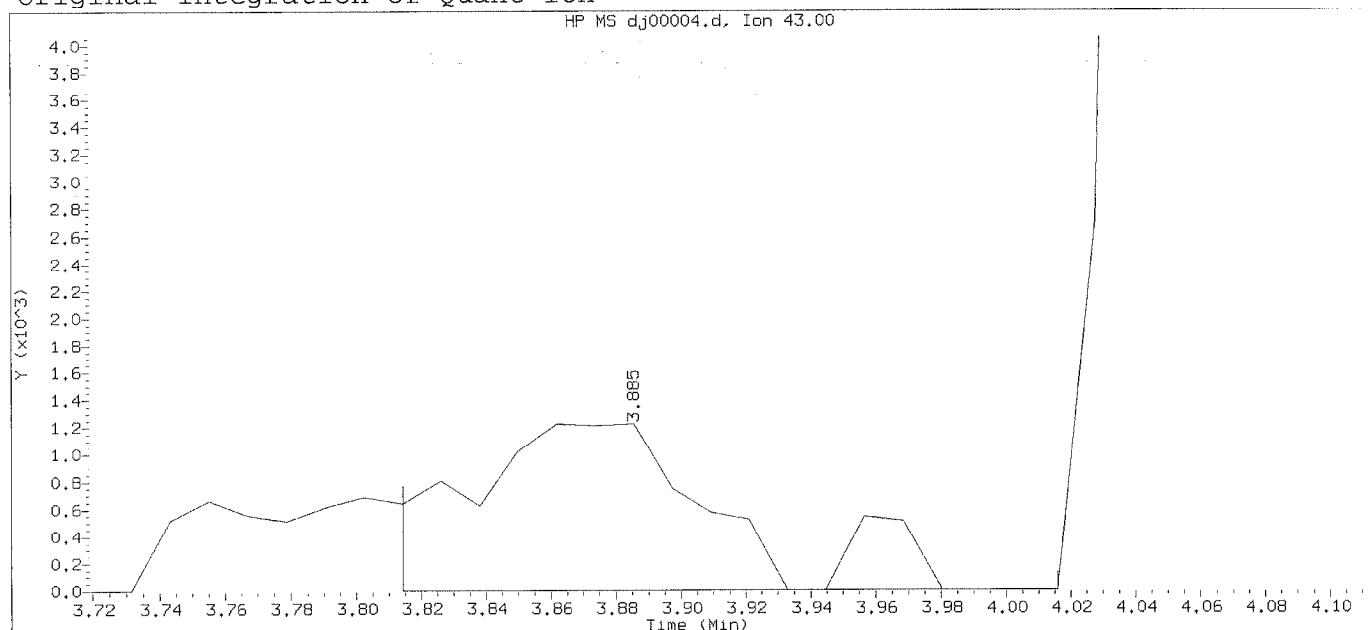
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Cmy 4/12 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
 Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 14:16
 Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

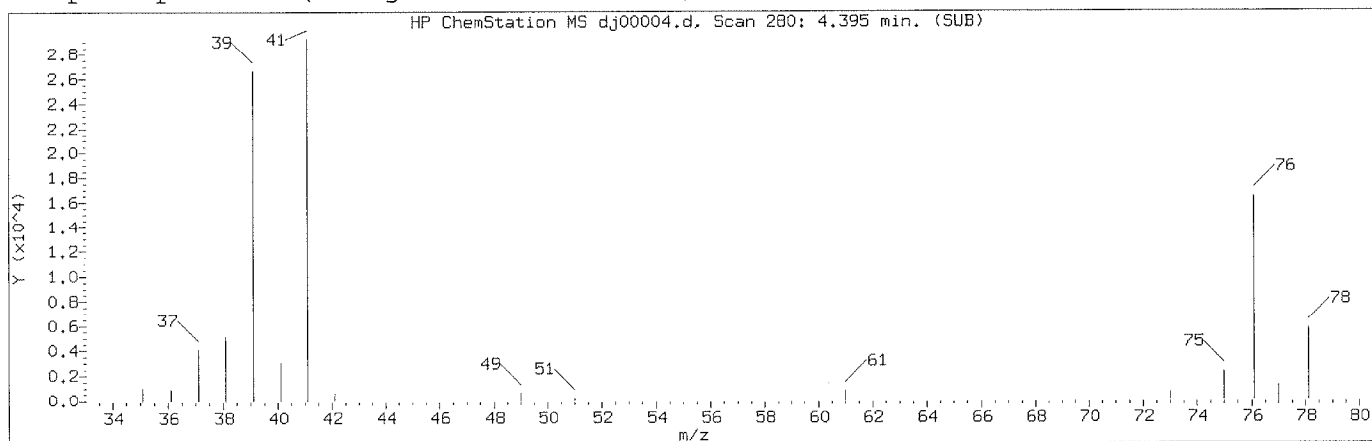
Sample Name: VSTD002

Lab Sample ID: VSTD002

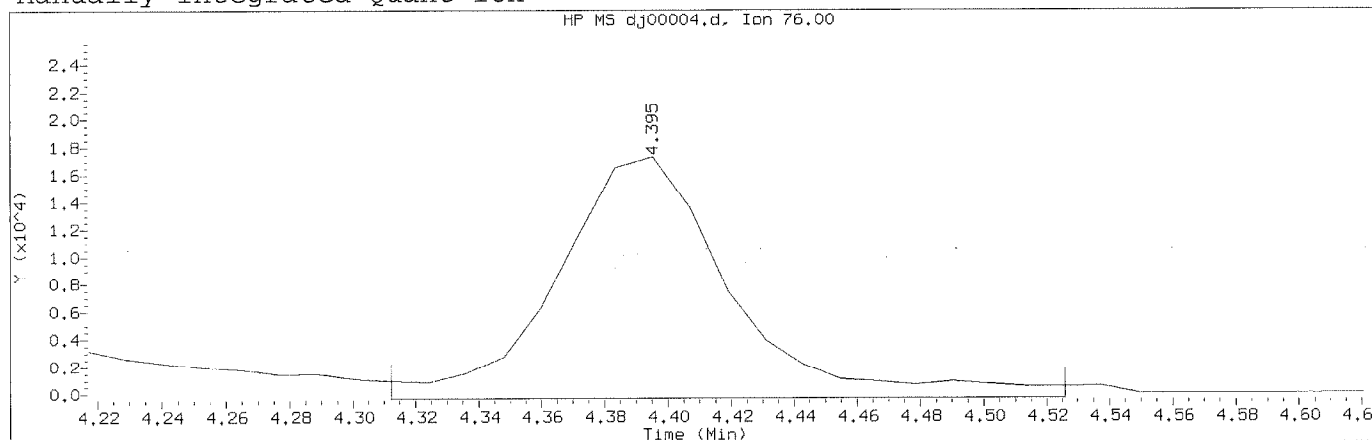
Compound Number	: 19		
Compound Name	: Acetone		
Scan Number	: 237		
Retention Time (minutes)	: 3.885		
Quant Ion	: 43.00		
Area	: 6634		
Concentration (ppb(v))	: 0.0849		
Integration start scan	: 230	Integration stop scan:	247
Y at integration start	: 0	Y at integration end:	0

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 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number : 24
Compound Name : 3-Chloropropene
Scan Number : 280
Retention Time (minutes): 4.395
Quant Ion : 76.00
Area (flag) : 68191M
Concentration (ppb(v)) : 2.1718
Integration start scan : 272 Integration stop scan: 290
Y at integration start : -326 Y at integration end: -326

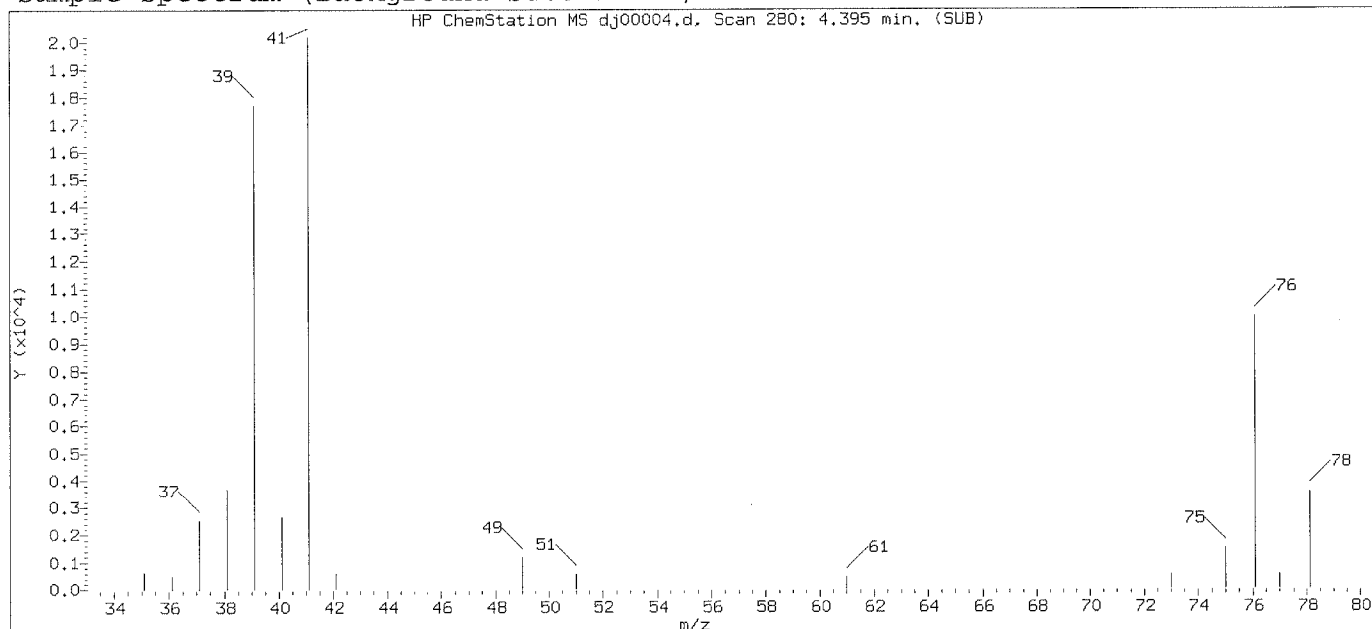
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

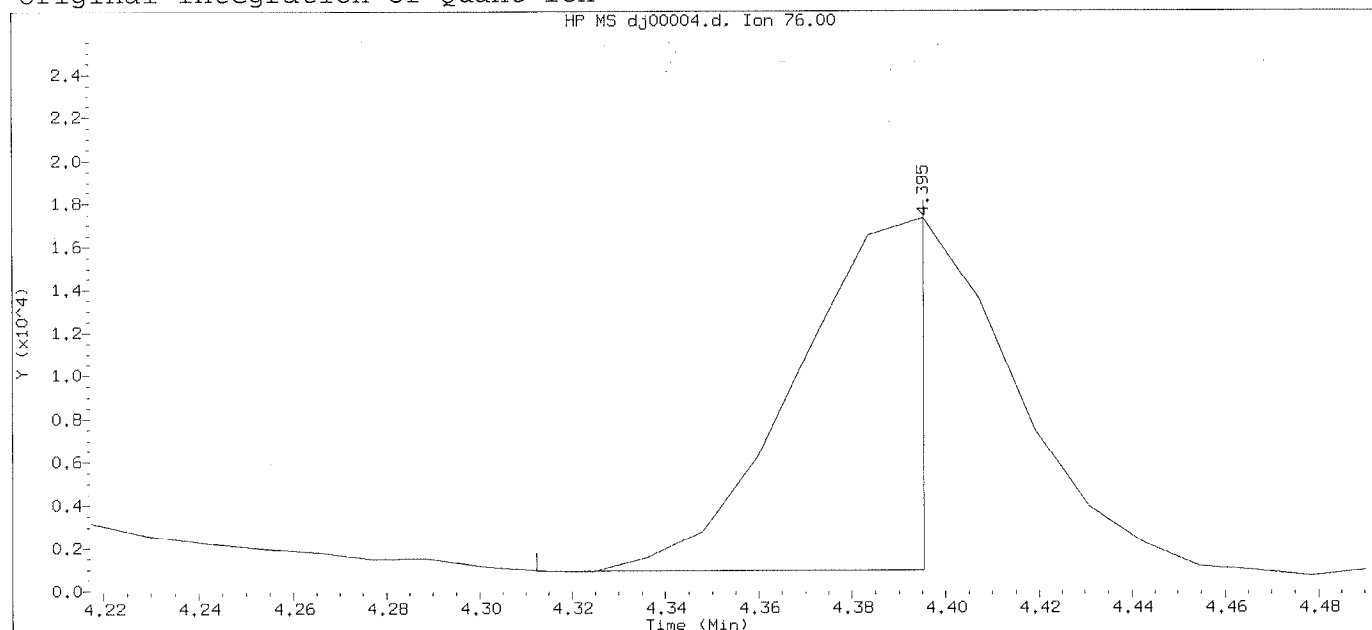
GC/MS audit/management approval: _____

Omuy 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
 Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 14:16
 Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

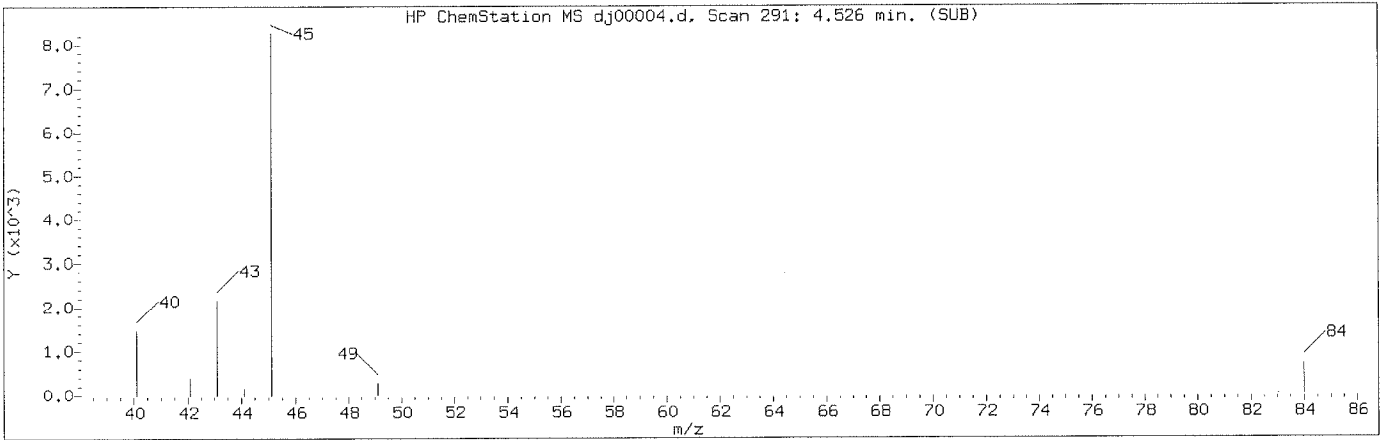
Sample Name: VSTD002

Lab Sample ID: VSTD002

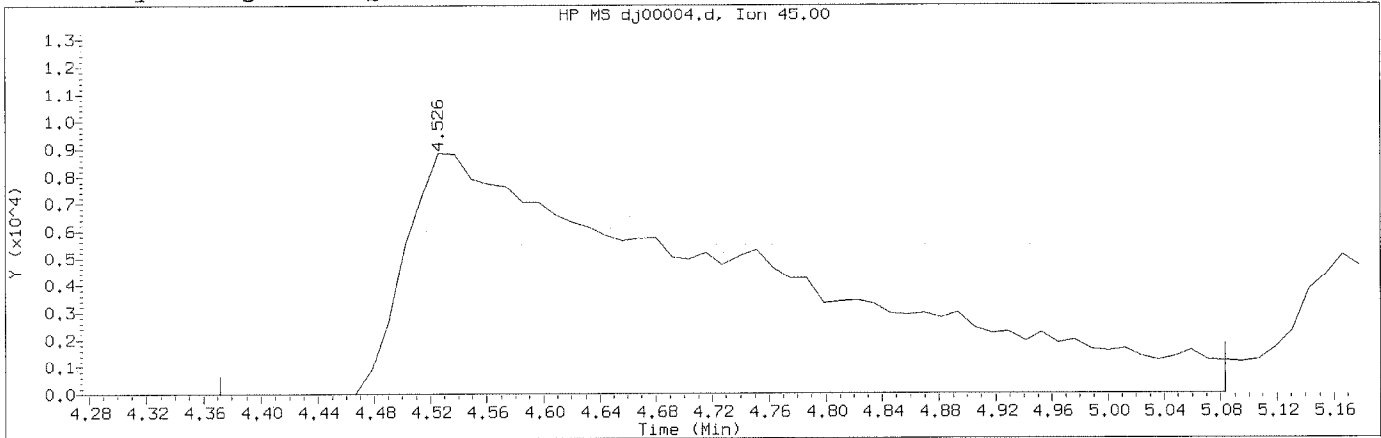
Compound Number	: 24	
Compound Name	: 3-Chloropropene	
Scan Number	: 280	
Retention Time (minutes)	: 4.395	
Quant Ion	: 76.00	
Area	: 30037	
Concentration (ppb(v))	: 0.9446	
Integration start scan	: 272	Integration stop scan: 279
Y at integration start	: 879	Y at integration end: 879

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 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

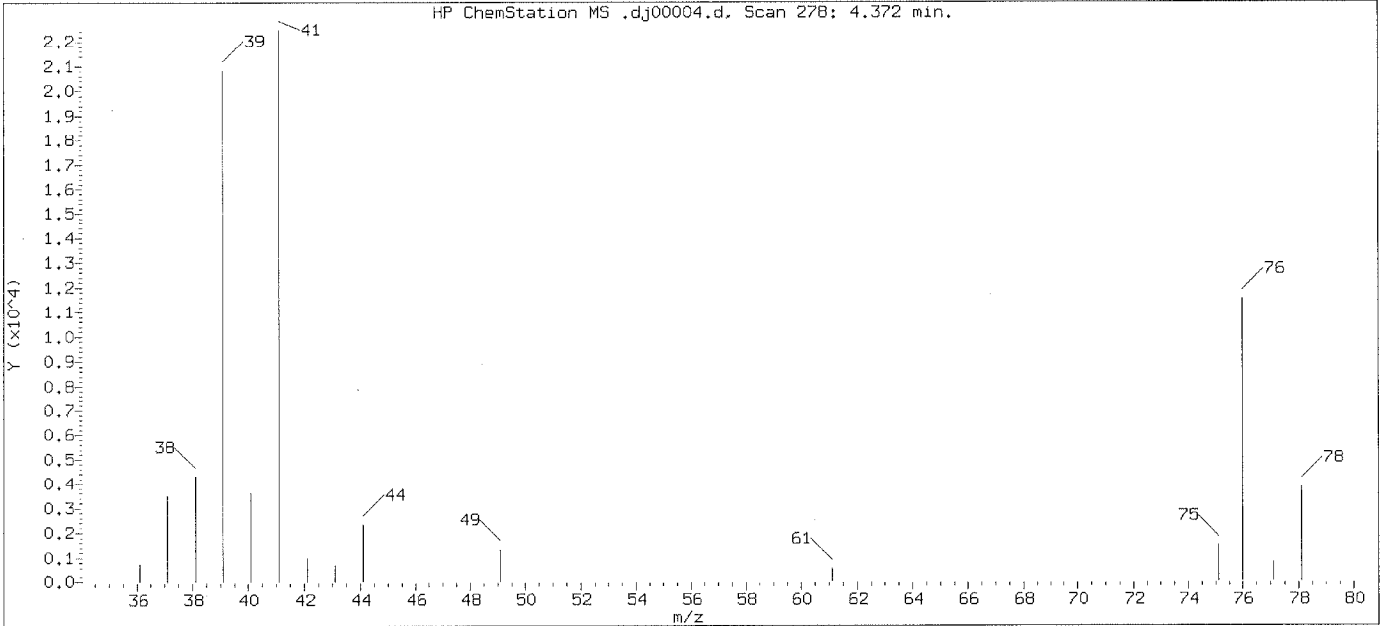
Compound Number	:	22
Compound Name	:	Isopropanol
Scan Number	:	291
Retention Time (minutes)	:	4.526
Quant Ion	:	45.00
Area (flag)	:	151029M
Concentration (ppb(v))	:	1.8764
Integration start scan	:	277
Integration stop scan	:	337
Y at integration start	:	0
Y at integration end	:	0

Reason for manual integration: missed peak

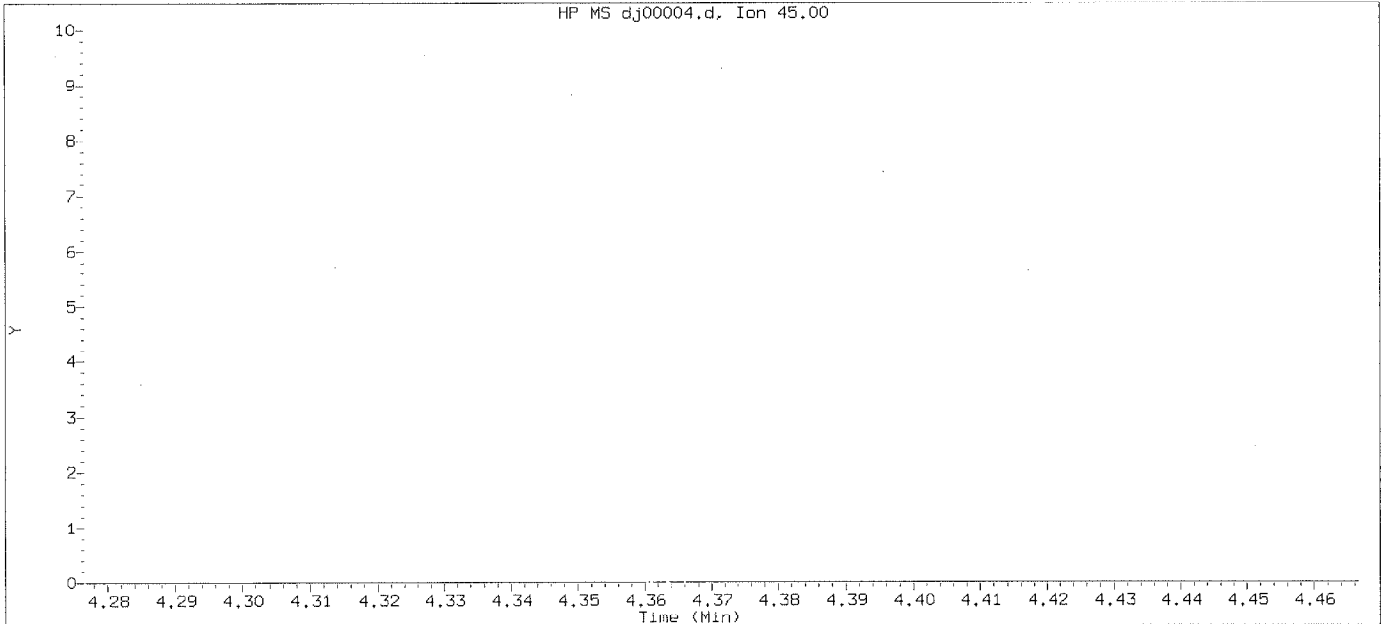
Digitally signed by Jeffrey B. Smith
Analyst responsible for change: on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: _____
 Omry 4/2 10/5/15

Sample Spectrum



Original Integration of Quant Ion



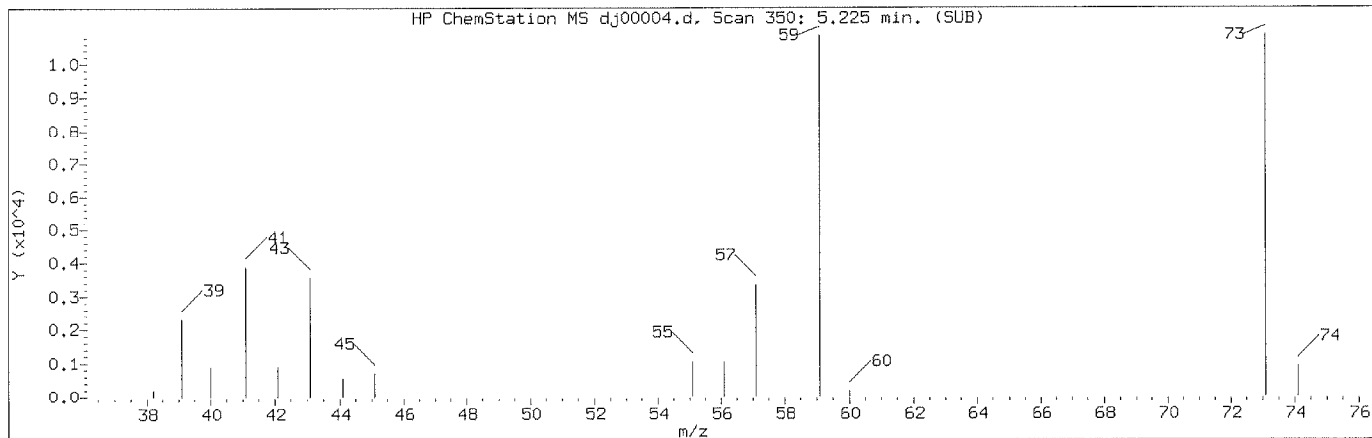
Data File: /chem/HP10145.i/15oct01.b/dj00004.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:58 Analyst ID: jbs01304
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 14:16
Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

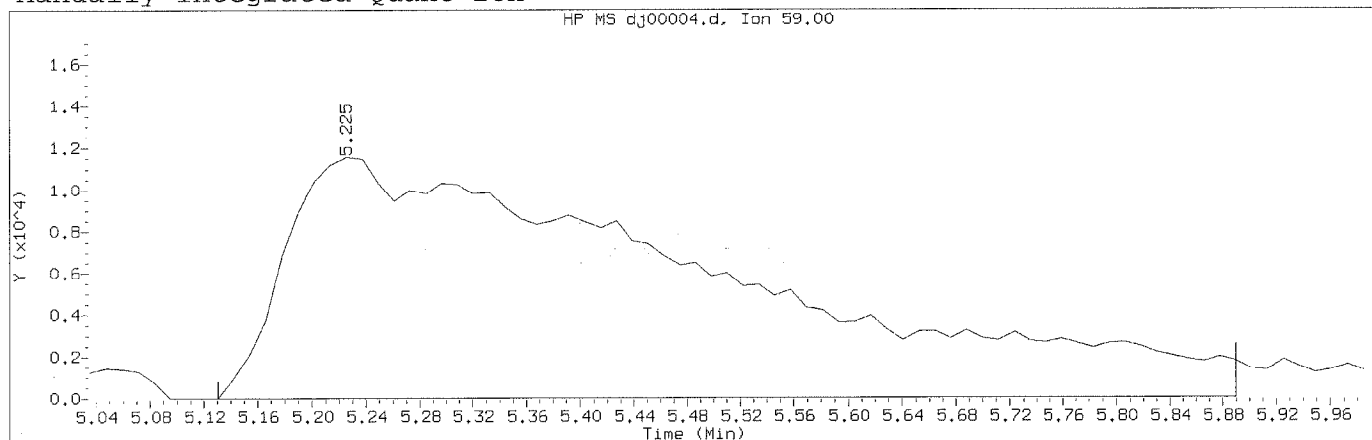
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.371
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 13:58 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sample Name: VSTD002 Lab Sample ID: VSTD002

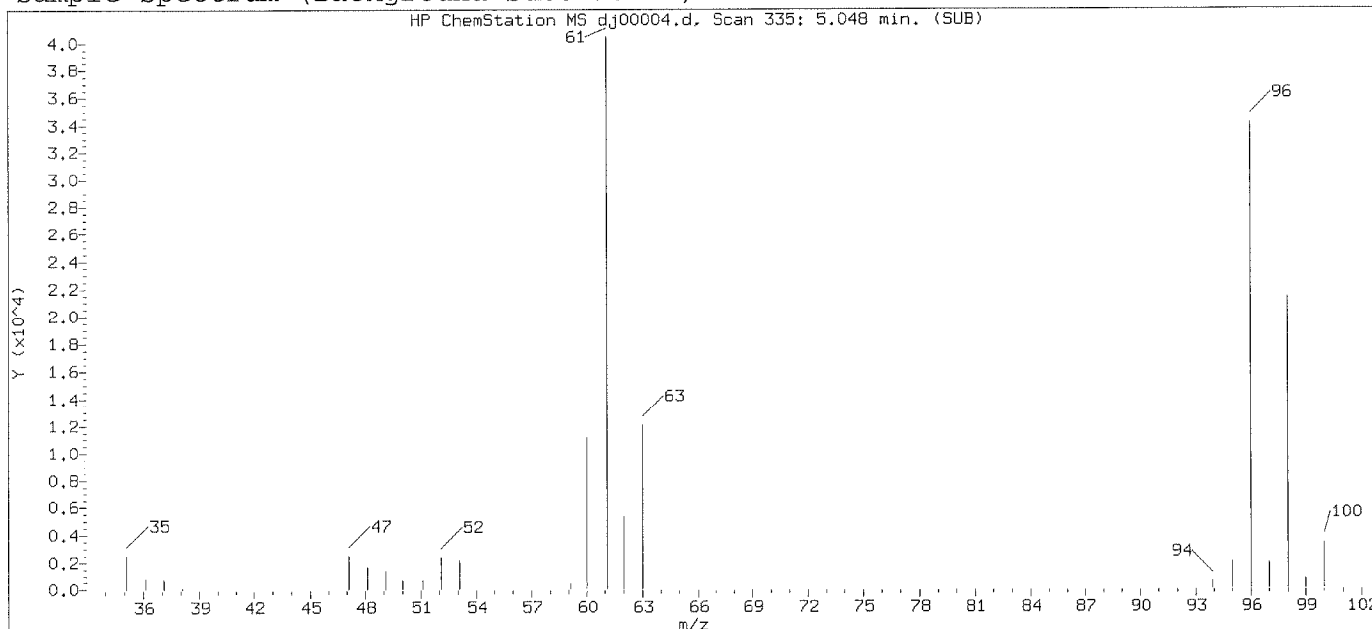
Compound Number	: 26	
Compound Name	: tert-Butyl Alcohol	
Scan Number	: 350	
Retention Time (minutes)	: 5.225	
Quant Ion	: 59.00	
Area (flag)	: 257968M	
Concentration (ppb(v))	: 2.1579	
Integration start scan	: 341	Integration stop scan: 405
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: improper integration

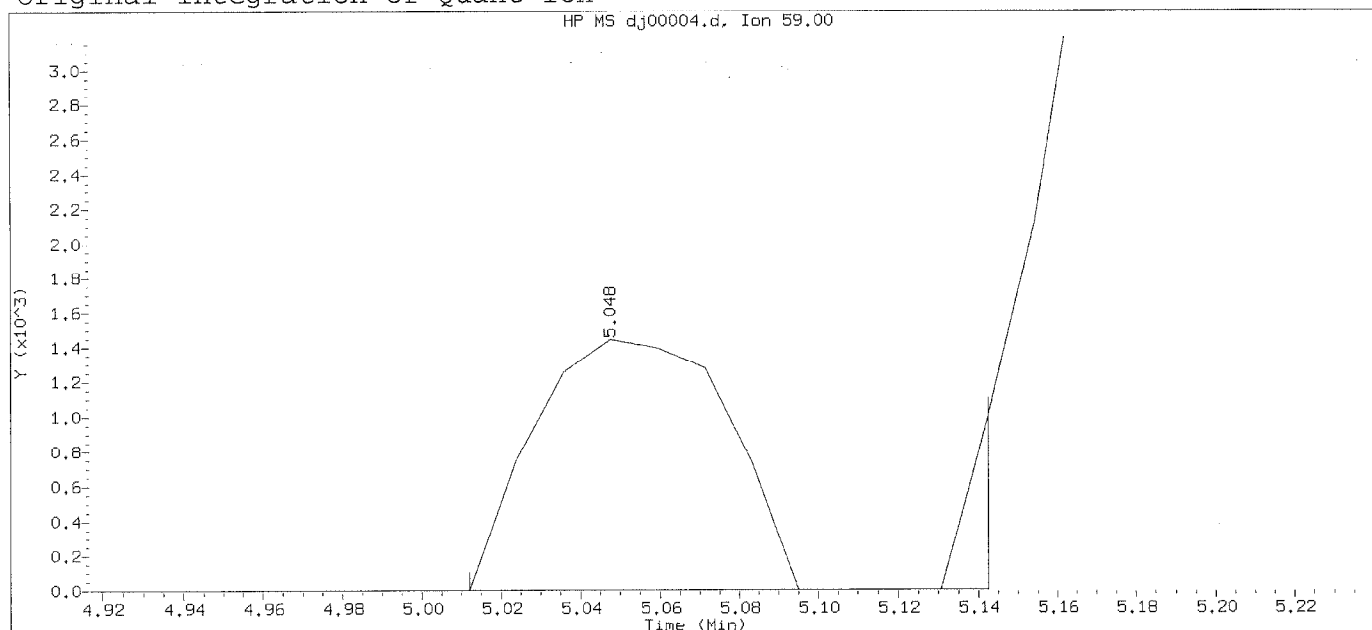
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 10/2/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 13:58 Analyst ID: jbs01304

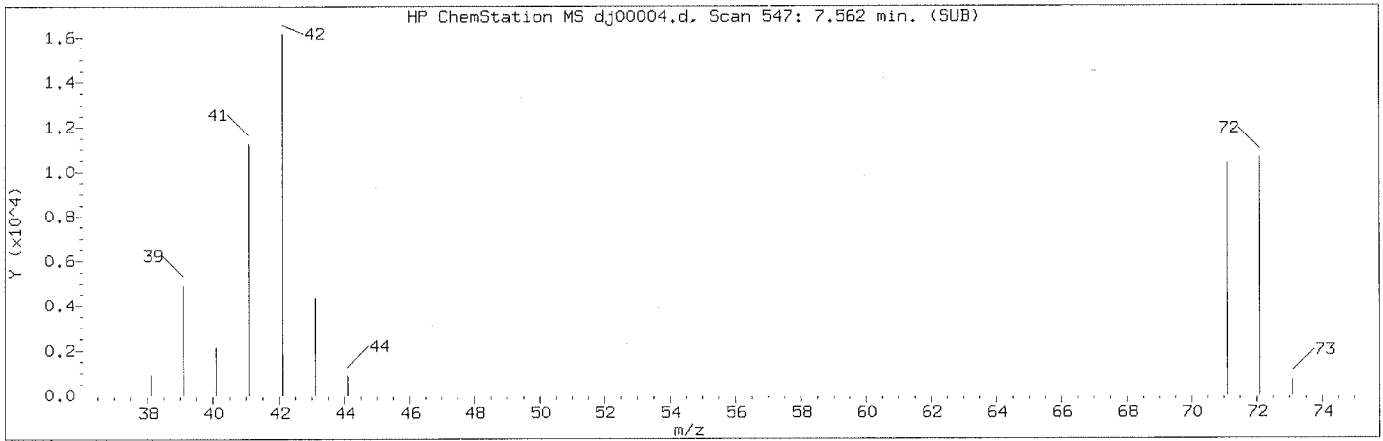
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 14:16
 Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

Sample Name: VSTD002 Lab Sample ID: VSTD002

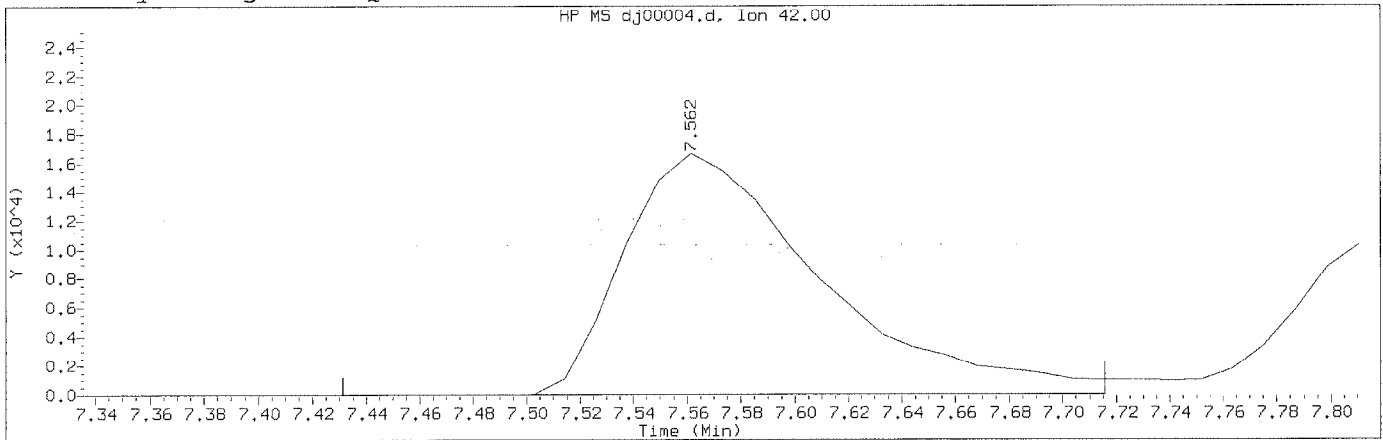
Compound Number : 26
 Compound Name : tert-Butyl Alcohol
 Scan Number : 335
 Retention Time (minutes): 5.048
 Quant Ion : 59.00
 Area : 5235
 Concentration (ppb(v)) : 0.0430
 Integration start scan : 331 Integration stop scan: 342
 Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d
Injection date and time: 01-OCT-2015 13:58

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 14:51
Date, time and analyst ID of latest file update: 01-Oct-2015 14:51 jeb07445

Sublist used: all

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 547
Retention Time (minutes): 7.562
Quant Ion : 42.00
Area (flag) : 84670M
Concentration (ppb(v)) : 1.9693
Integration start scan : 535 Integration stop scan: 559
Y at integration start : 0 Y at integration end: 0

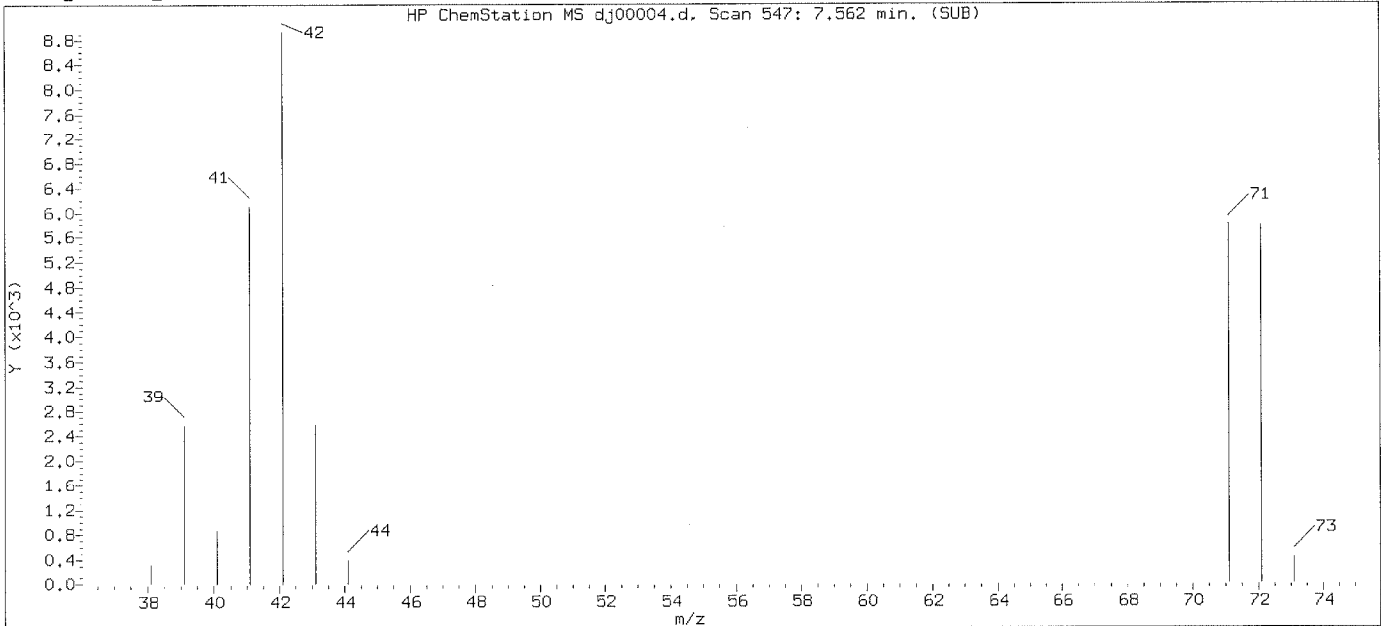
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

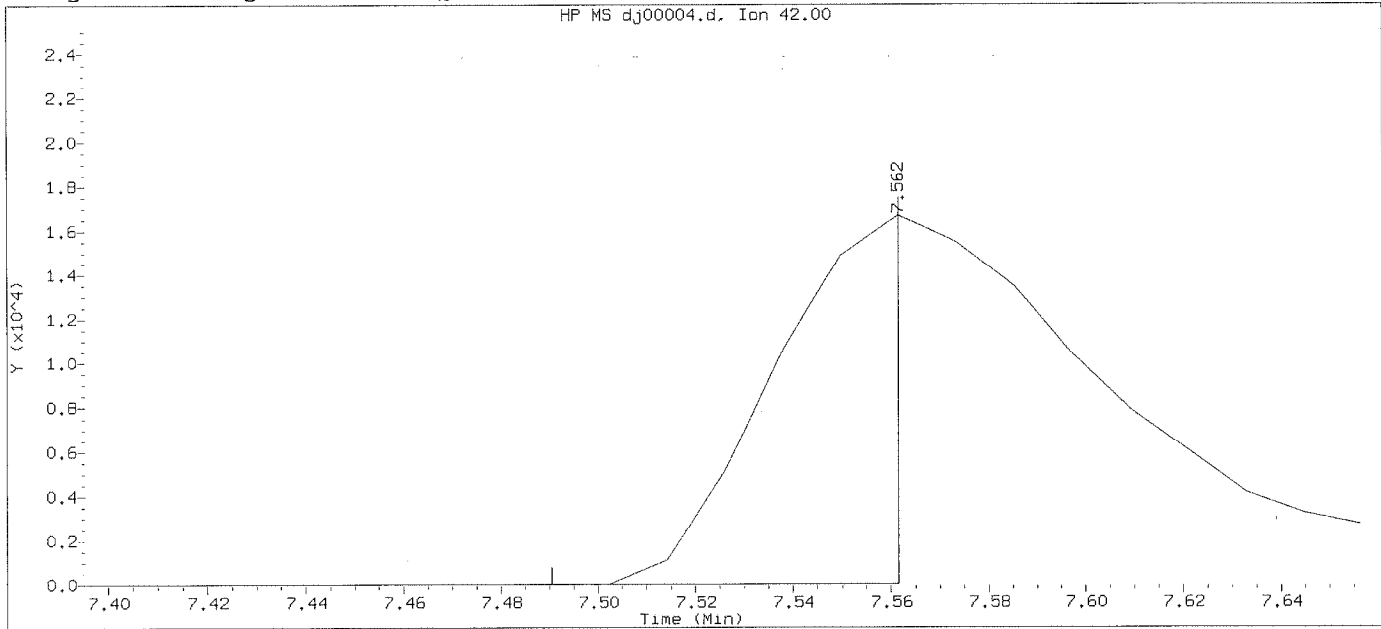
GC/MS audit/management approval: _____

Omny 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 13:58

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 14:16

Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number	: 41		
Compound Name	: Tetrahydrofuran		
Scan Number	: 547		
Retention Time (minutes)	: 7.562		
Quant Ion	: 42.00		
Area	: 28462		
Concentration (ppb(v))	: 0.6520		
Integration start scan	: 540	Integration stop scan:	546
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

