

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026679.D
 Acq On : 12 Jan 2016 17:55
 Operator : SY/AP
 Sample : H1064-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
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Quant Time: Jan 13 06:25:31 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 13 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	775862	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2404842	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.79	117	3116877	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2502318	10.07	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	114615	0.56	ppbv	96
3) Chlorodifluoromethane	3.59	51	113543	1.10	ppbv	97
9) Propene	3.64	41	560274m	15.09	ppbv	
10) Heptane	9.39	43	810464	5.86	ppbv	97
11) Trichlorofluoromethane	4.73	101	50552	0.24	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	5.34	101	10015	0.08	ppbv	99
13) Ethanol	4.36	45	52563	7.45	ppbv	91
15) Acetone	4.63	43	1257077	9.85	ppbv	95
20) Methylene Chloride	5.18	84	1115408	21.30	ppbv	98
26) Hexane	6.69	57	171575	1.68	ppbv #	46
27) Carbon Disulfide	5.42	76	81020	0.54	ppbv #	82
30) Cyclohexane	8.32	84	46700	0.46	ppbv #	38
34) 2-Butanone	6.24	43	111713	0.87	ppbv	95
35) Carbon Tetrachloride	8.19	117	12973	0.06	ppbv	91
36) Benzene	8.06	78	515338	2.08	ppbv	97
38) Trichloroethene	9.10	130	36499	0.33	ppbv #	81
44) 2,2,4-Trimethylpentane	9.12	57	299306	0.75	ppbv #	69
52) Tetrachloroethene	12.83	164	18756	0.15	ppbv #	89
53) Toluene	11.27	91	2128298	6.10	ppbv	100
58) Ethyl Benzene	14.45	91	4492798	8.07	ppbv	98
59) m/p-Xylene	14.74	91	14510407	31.62	ppbv	100
60) o-Xylene	15.53	91	6614940	13.34	ppbv	98
61) Styrene	15.36	104	87351	0.45	ppbv	98
62) Isopropylbenzene	16.58	105	136810	0.21	ppbv	97
64) n-propylbenzene	17.56	120	75739	0.43	ppbv	91
67) sec-Butylbenzene	19.45	105	75134	0.08	ppbv	96
72) 4-Ethyltoluene	17.86	105	427812	0.77	ppbv	97
73) 1,3,5-Trimethylbenzene	18.03	105	369602	0.70	ppbv	94
74) 1,2,4-Trimethylbenzene	18.87	105	1391610	2.49	ppbv #	76
79) Naphthalene	23.97	128	70545m	0.19	ppbv	

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

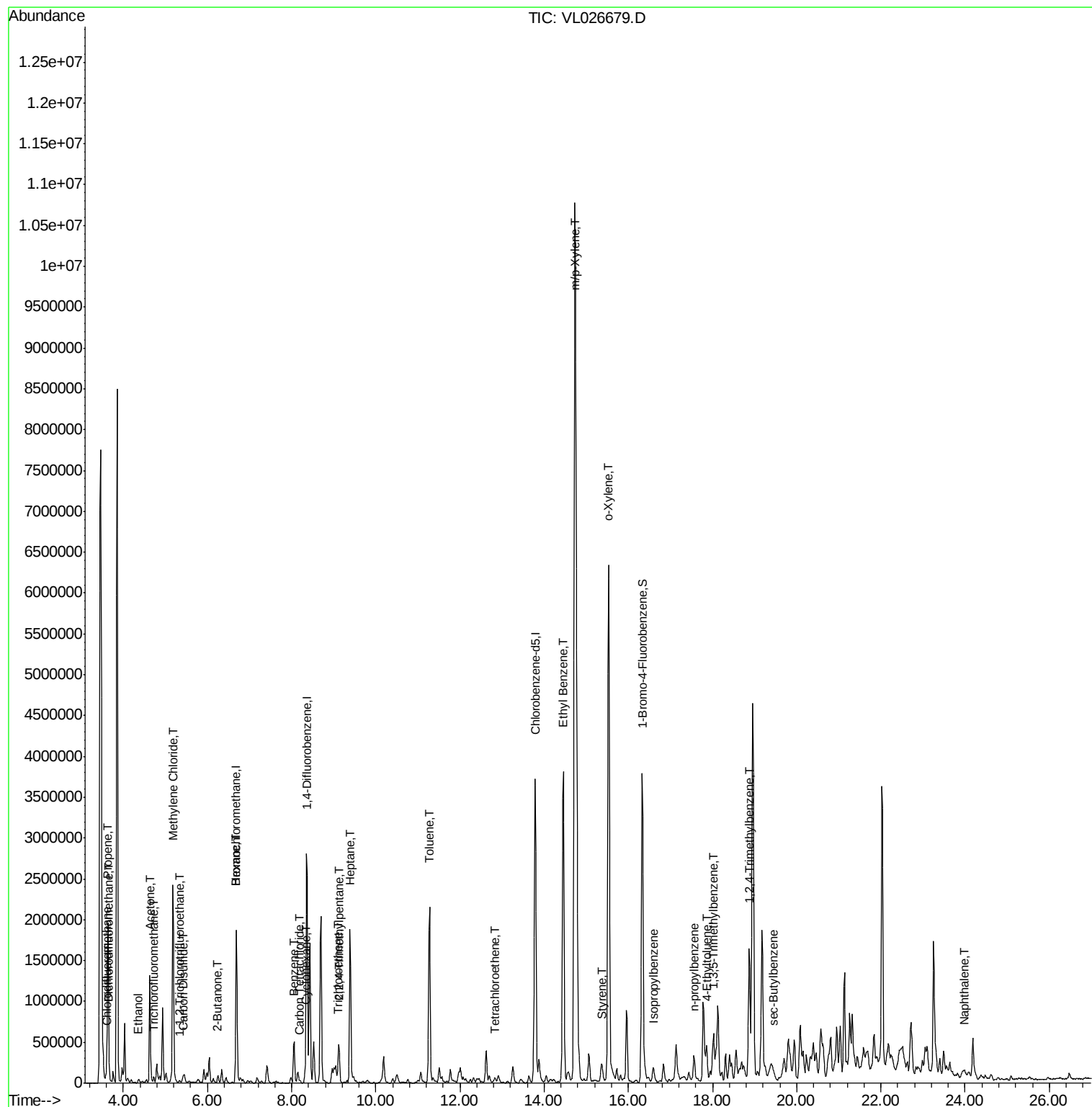
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
Data File : VL026679.D
Acq On : 12 Jan 2016 17:55
Operator : SY/AP
Sample : H1064-02
Misc : 400mL/MSVOA L
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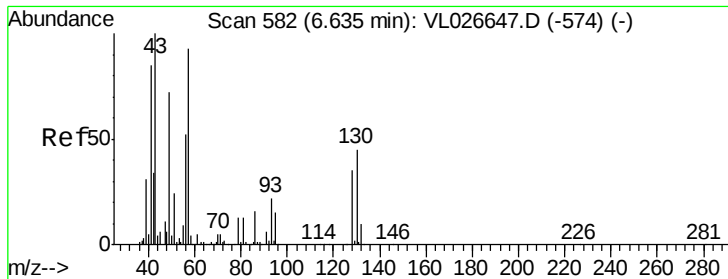
Instrument :
MSVOA_L
ClientSampleId :
SS-1

Manual Integrations
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Quant Time: Jan 13 06:25:31 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

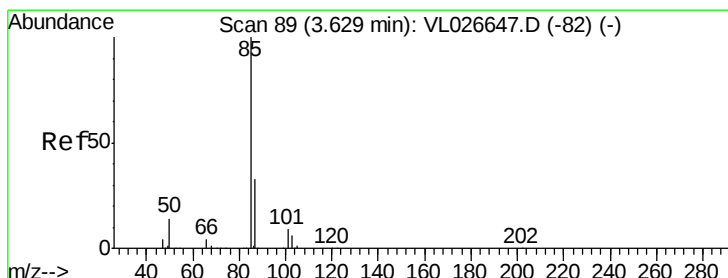
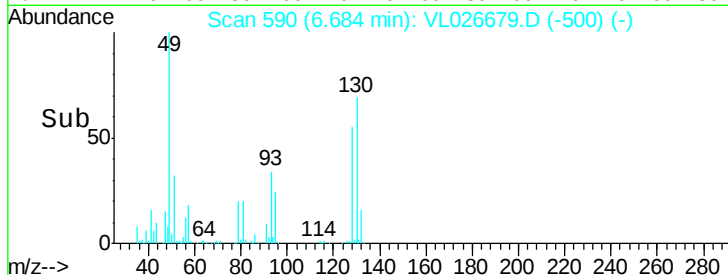
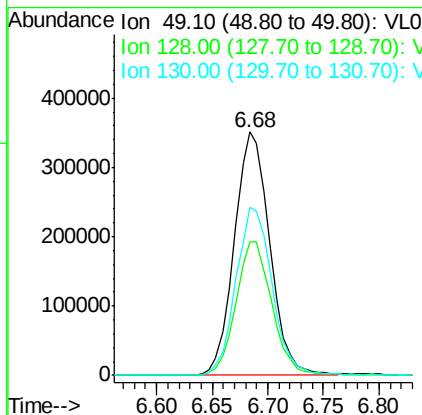
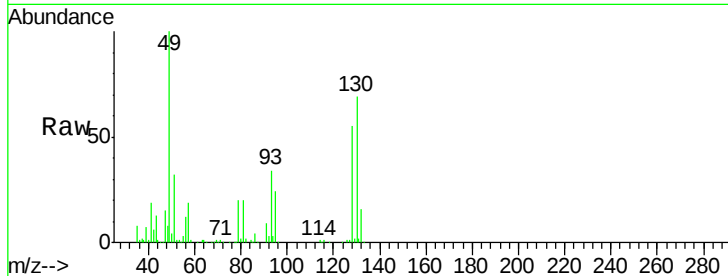
ClientSampled :

SS-1

Tot Ion: 49 Resp: 775862
 Ion Ratio Lower Upper
 49 100
 128 56.2 25.9 77.7
 130 71.8 33.6 100.8

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#2

Dichlorodifluoromethane

Concen: 0.56 ppbv

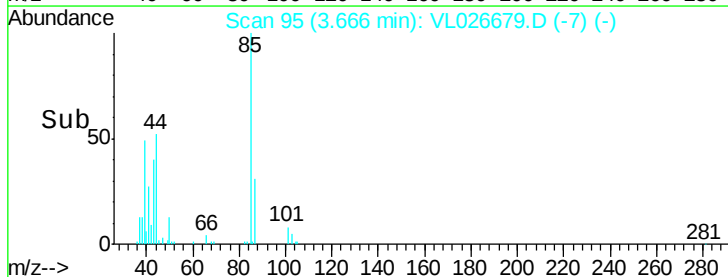
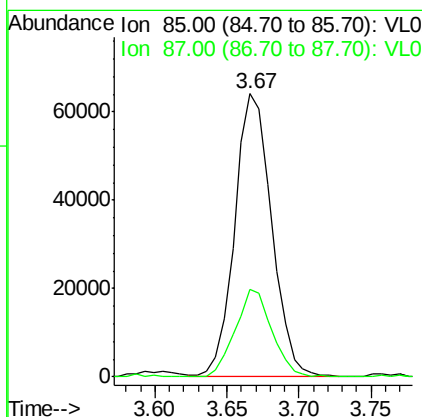
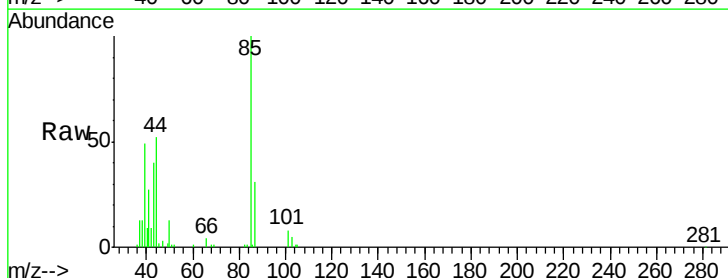
RT: 3.67 min Scan# 95

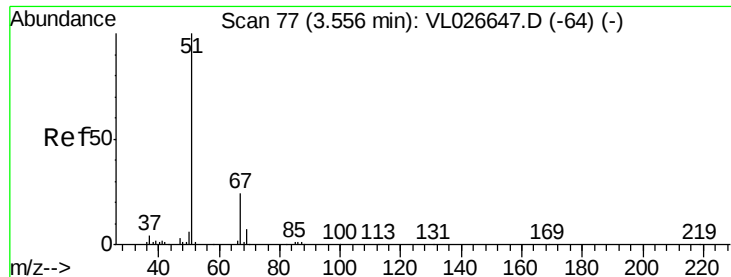
Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion: 85 Resp: 114615
 Ion Ratio Lower Upper
 85 100
 87 31.0 26.4 39.6





#3

Chlorodifluoromethane

Concen: 1.10 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 51 Resp: 113543

Ion Ratio Lower Upper

51 100

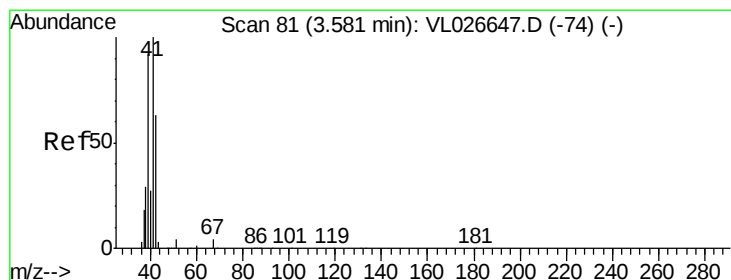
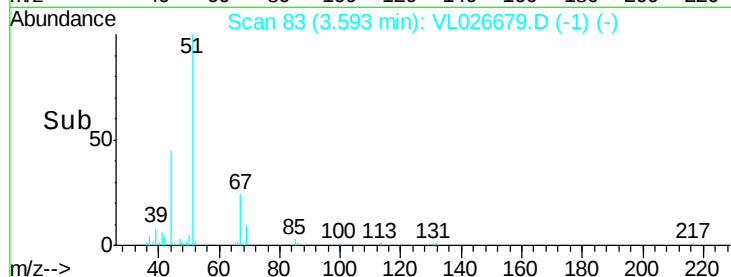
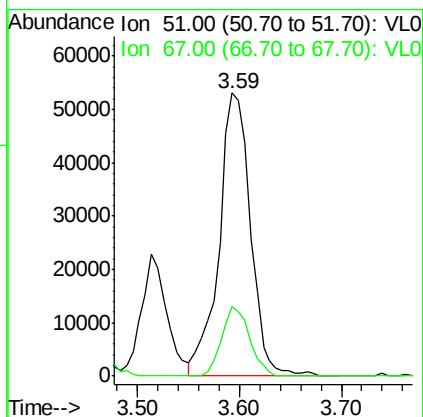
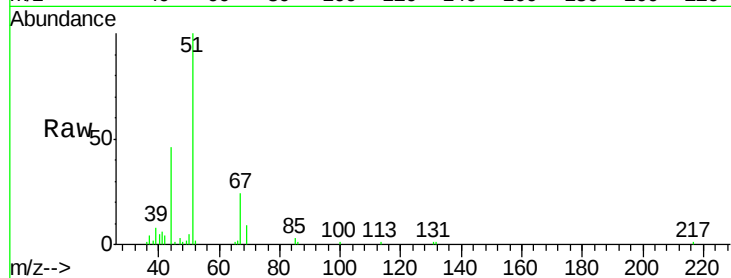
67 21.7 18.6 28.0

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#9

Propene

Concen: 15.09 ppbv m

RT: 3.64 min Scan# 90

Delta R.T. 0.05 min

Lab File: VL026679.D

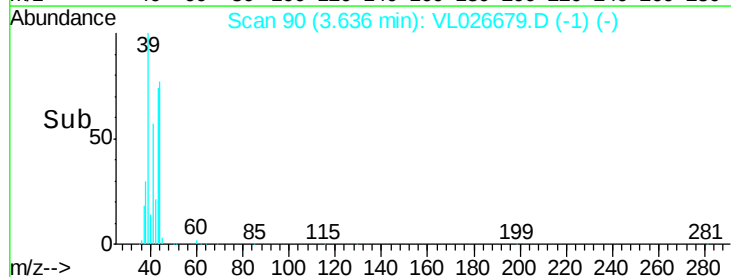
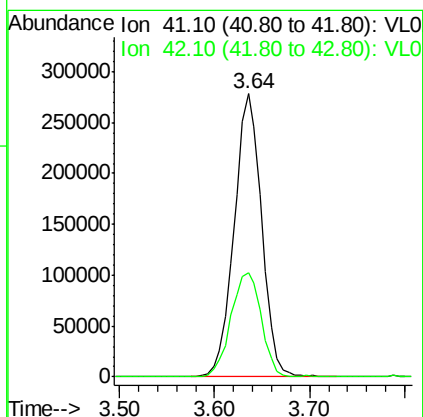
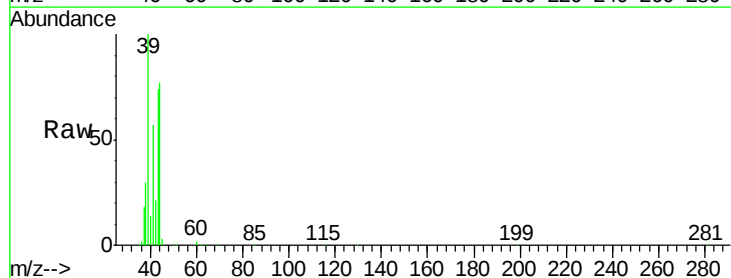
Acq: 12 Jan 2016 17:55

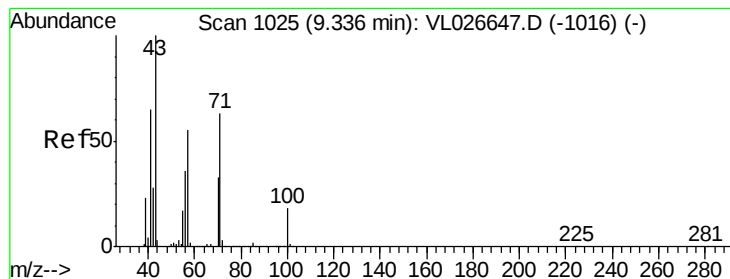
Tgt Ion: 41 Resp: 560274

Ion Ratio Lower Upper

41 100

42 347.1 53.6 80.4#





#10

Heptane

Concen: 5.86 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 43 Resp: 810464

Ion Ratio Lower Upper

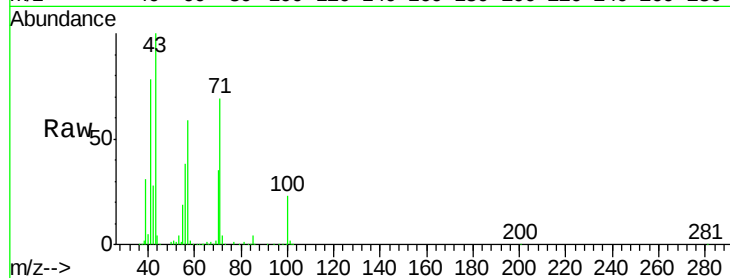
43 100

57 59.7 45.8 68.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

9.39

400000

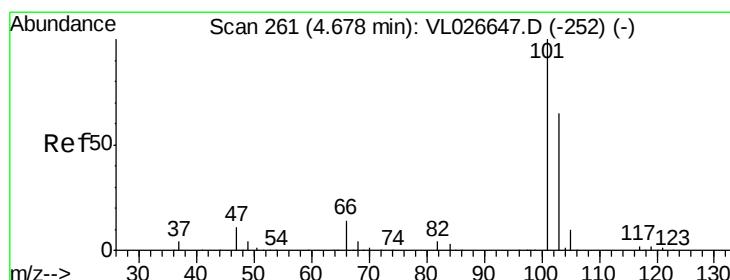
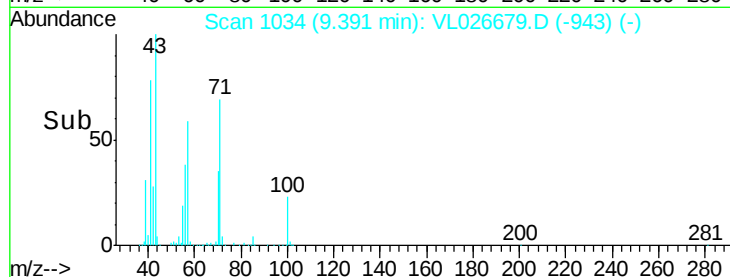
300000

200000

100000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.24 ppbv

RT: 4.73 min Scan# 269

Delta R.T. 0.05 min

Lab File: VL026679.D

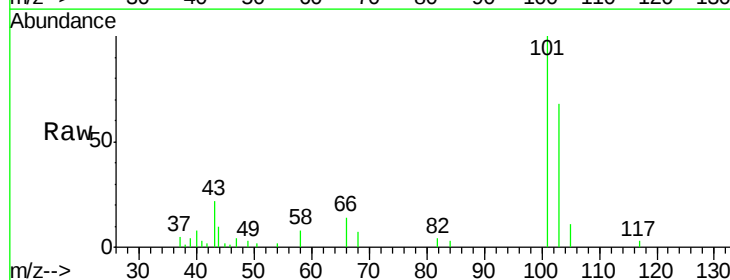
Acq: 12 Jan 2016 17:55

Tgt Ion: 101 Resp: 50552

Ion Ratio Lower Upper

101 100

103 68.3 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.73

30000

25000

20000

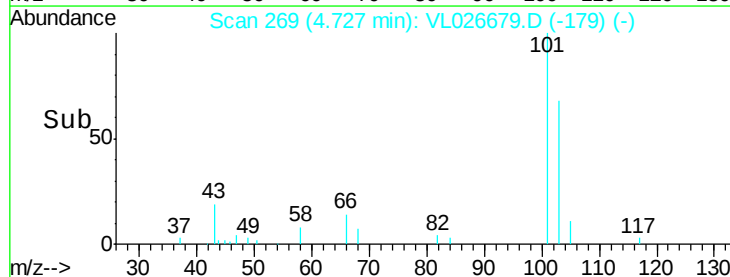
15000

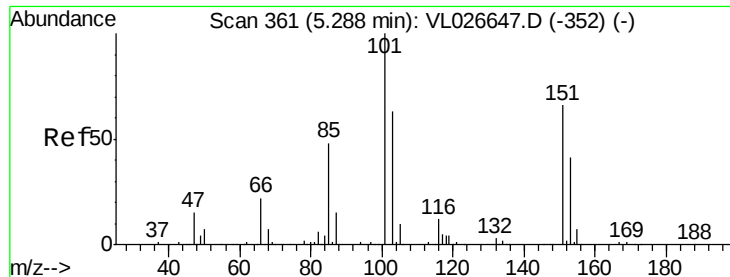
10000

5000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 5.34 min Scan# 369

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion:101 Resp: 10015

Ion Ratio Lower Upper

101 100

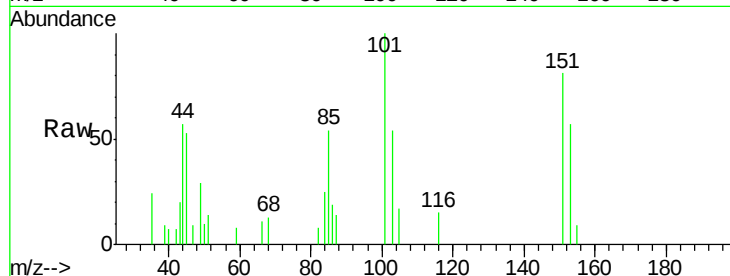
151 68.6 54.2 81.4

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

5.34

4000

3000

2000

1000

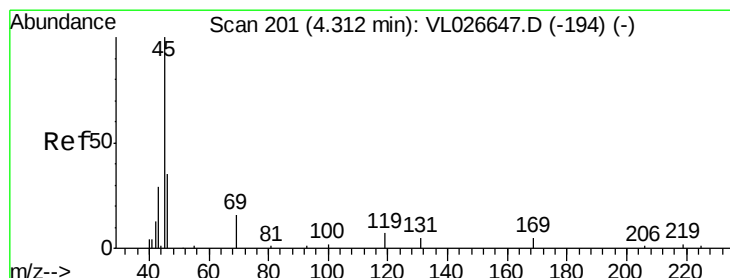
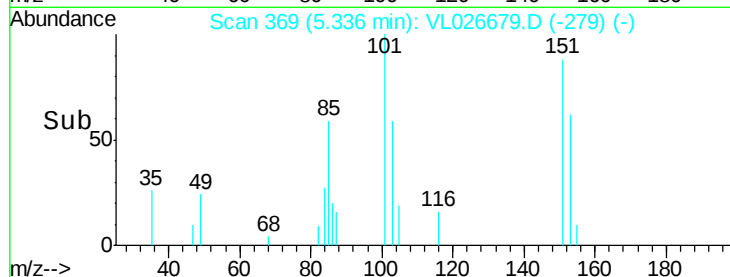
0

Time-->

5.30

5.35

5.40



#13

Ethanol

Concen: 7.45 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.05 min

Lab File: VL026679.D

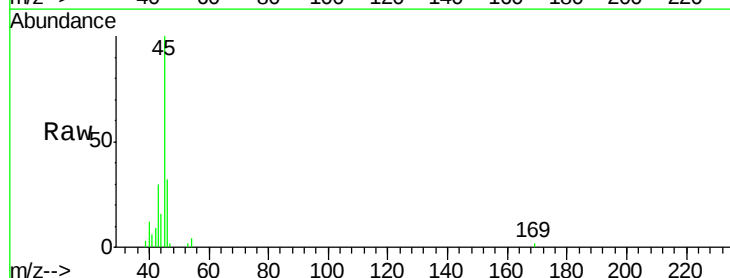
Acq: 12 Jan 2016 17:55

Tgt Ion: 45 Resp: 52563

Ion Ratio Lower Upper

45 100

46 47.1 16.7 66.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

4.36

25000

20000

15000

10000

5000

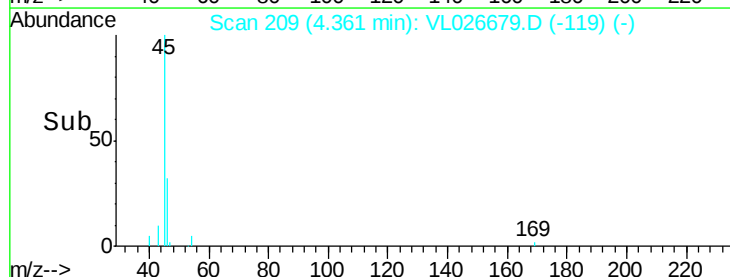
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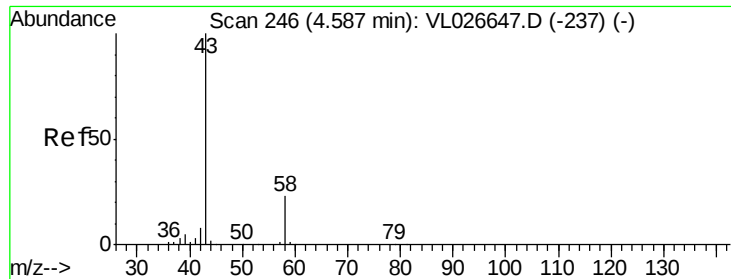
Time-->

4.30

4.35

4.40





#15

Acetone

Concen: 9.85 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 43 Resp: 1257077

Ion Ratio Lower Upper

43 100

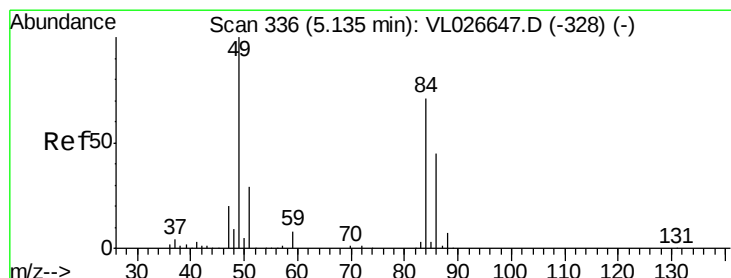
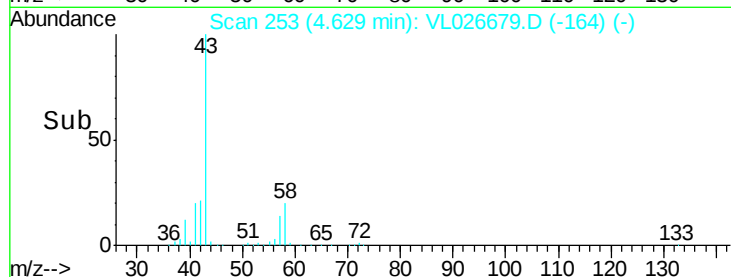
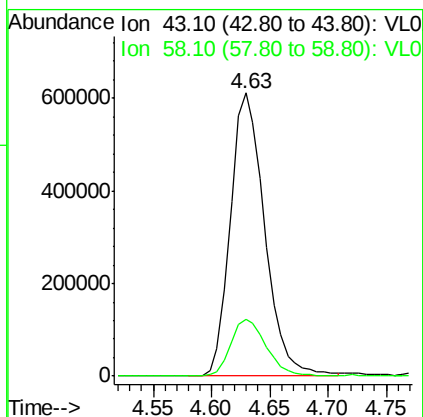
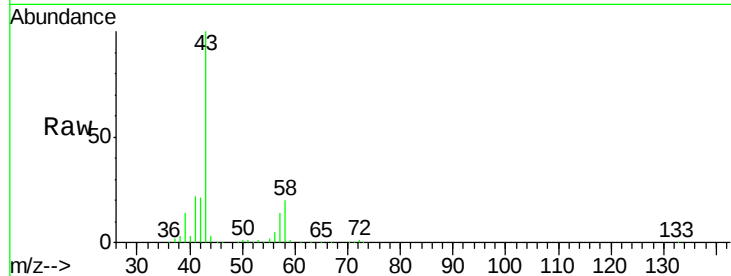
58 21.4 19.2 28.8

Manual Integrations

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#20

Methylene Chloride

Concen: 21.30 ppbv

RT: 5.18 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion: 84 Resp: 1115408

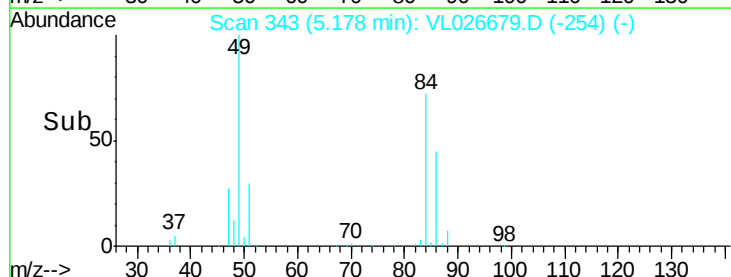
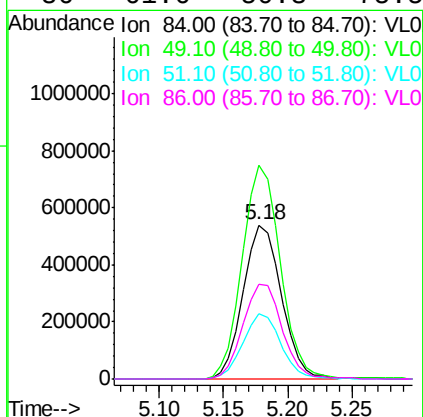
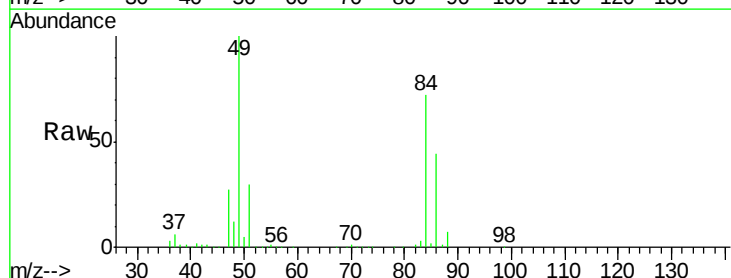
Ion Ratio Lower Upper

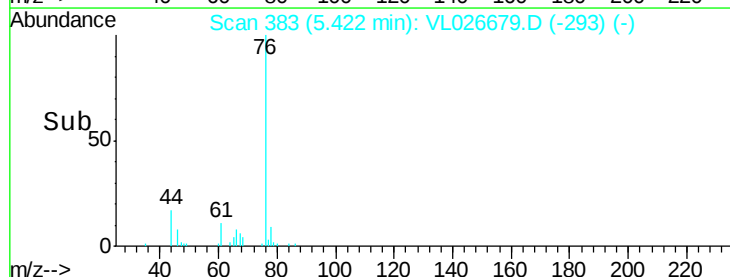
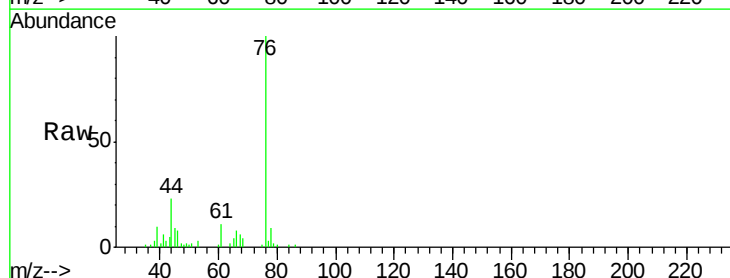
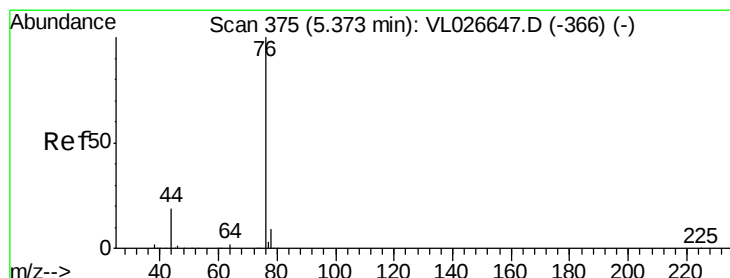
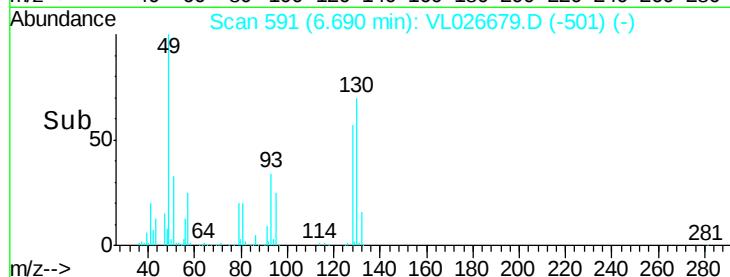
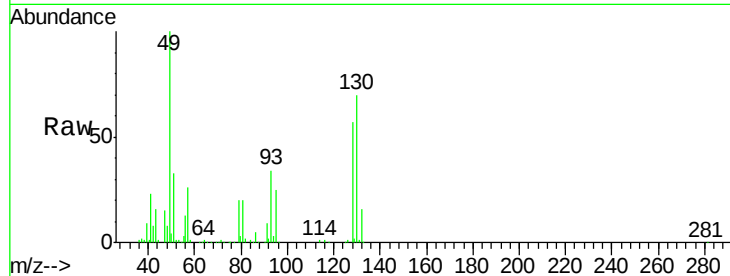
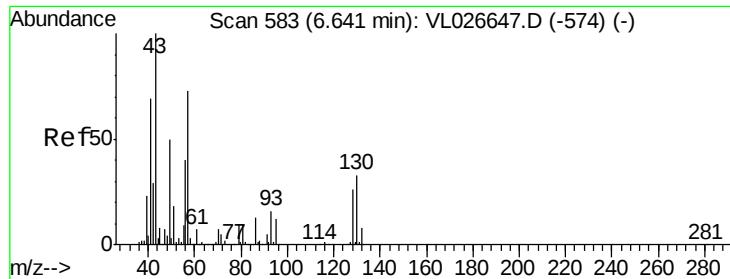
84 100

49 138.5 112.3 168.5

51 41.9 32.5 48.7

86 61.6 50.3 75.5





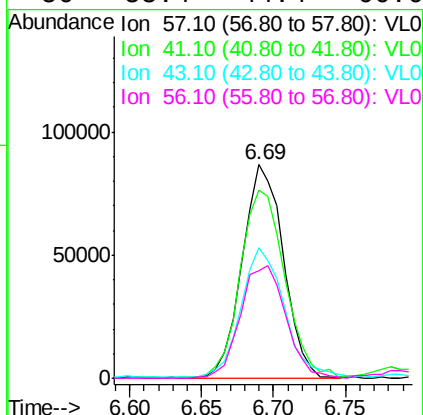
#26
Hexane
Concen: 1.68 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tot Ion	Ratio	Lower	Upper
57	100		
41	96.6	74.8	112.2
43	63.6	161.5	242.3#
56	58.4	44.4	66.6

Instrument :
MSVOA_L
ClientSampled :
SS-1

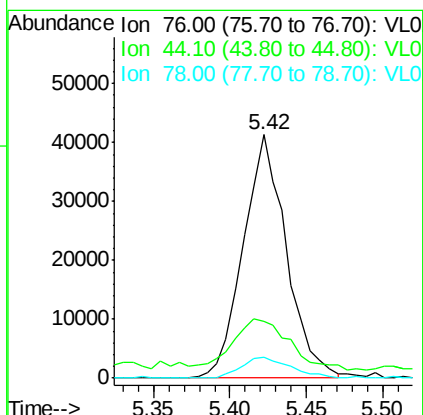
Manual Integrations
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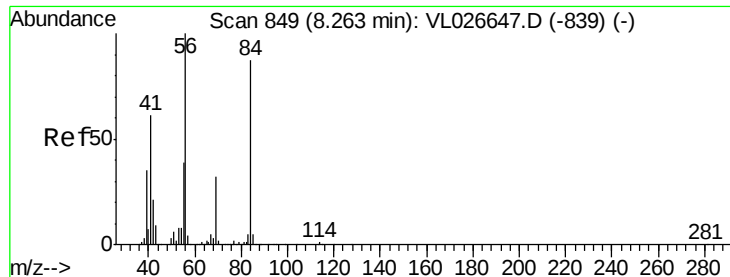
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#27
Carbon Disulfide
Concen: 0.54 ppbv
RT: 5.42 min Scan# 383
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion	Ratio	Lower	Upper
76	100		
44	31.7	15.9	23.9#
78	9.8	7.6	11.4





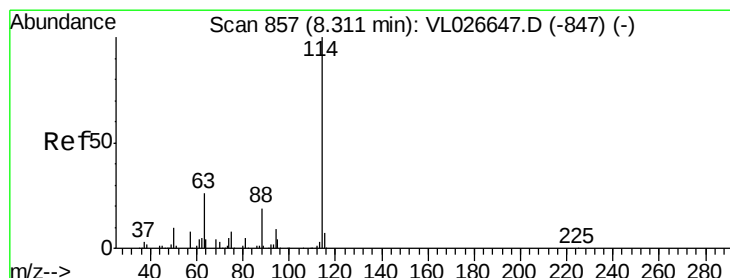
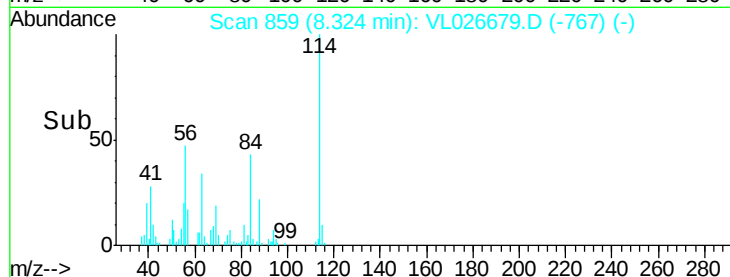
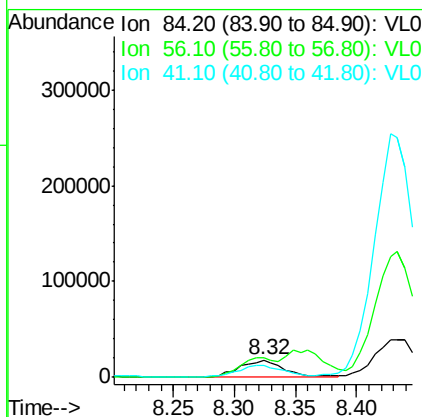
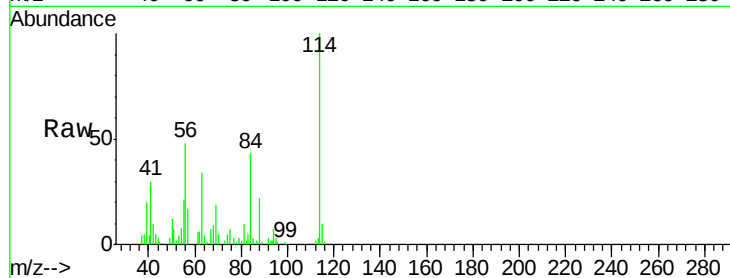
#30
Cvclohexane
Concen: 0.46 ppbv
RT: 8.32 min Scan# 859
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	224.8	95.9	143.9#
41	71.9	54.8	82.2

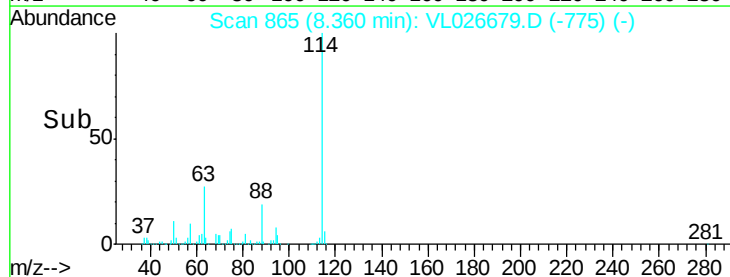
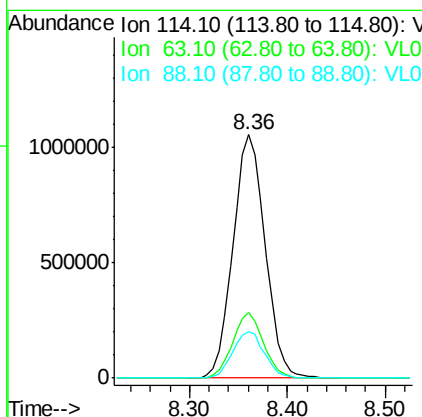
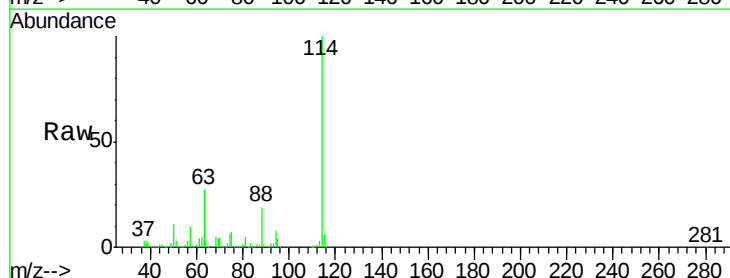
Manual Integrations
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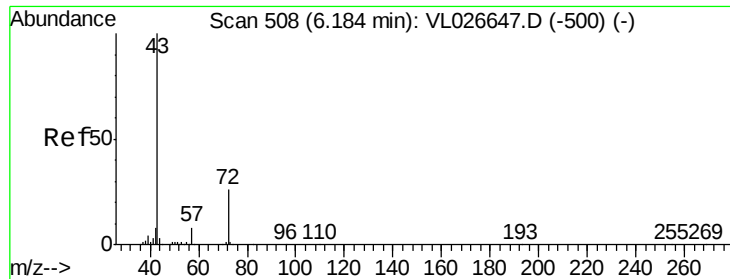
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.36 min Scan# 865
Delta R.T. 0.05 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.7	32.5
88	19.0	15.2	22.8





#34

2-Butanone

Concen: 0.87 ppbv

RT: 6.24 min Scan# 518

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 43 Resp: 111713

Ion Ratio Lower Upper

43 100

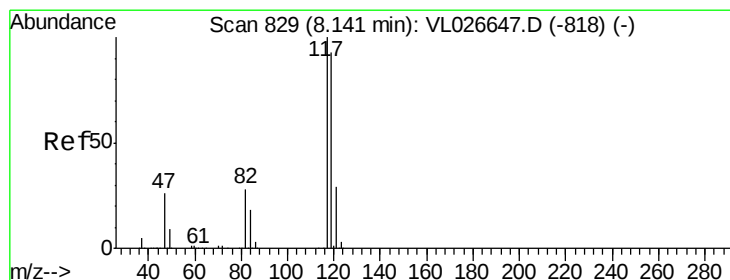
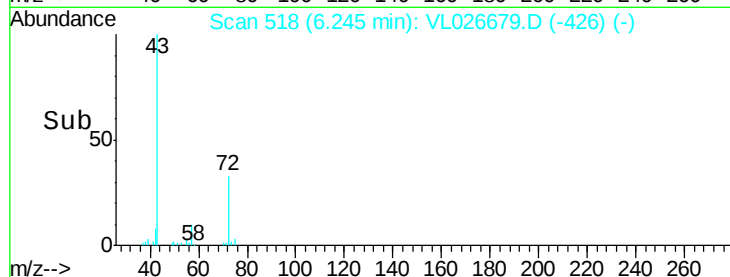
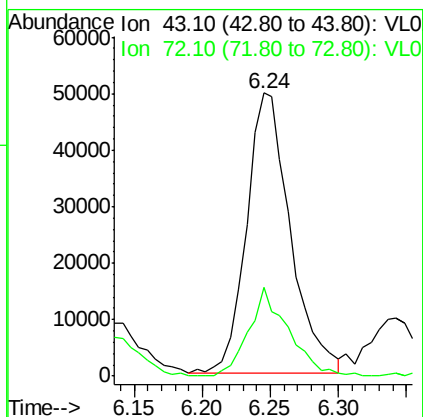
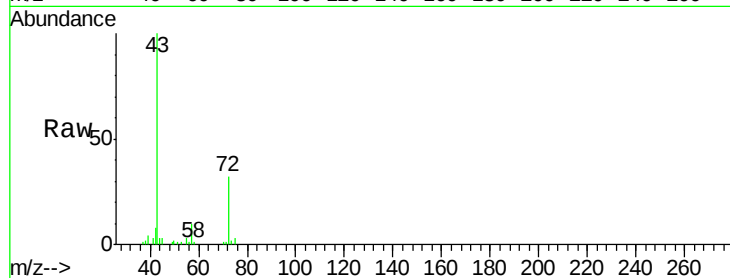
72 28.7 20.9 31.3

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 8.19 min Scan# 837

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

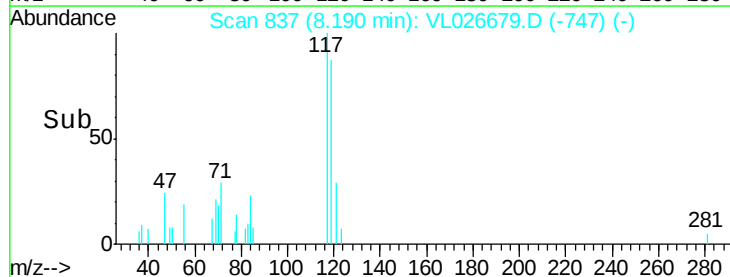
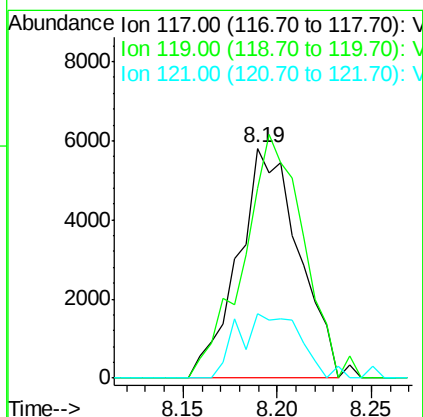
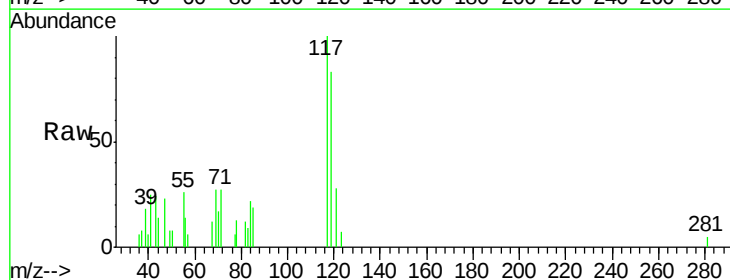
Tgt Ion: 117 Resp: 12973

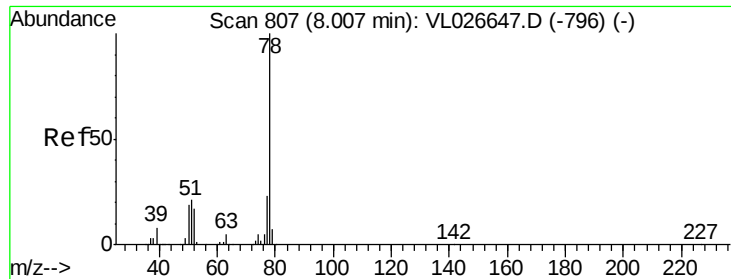
Ion Ratio Lower Upper

117 100

119 82.5 74.7 112.1

121 27.8 23.1 34.7





#36

Benzene

Concen: 2.08 ppbv

RT: 8.06 min Scan# 815

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

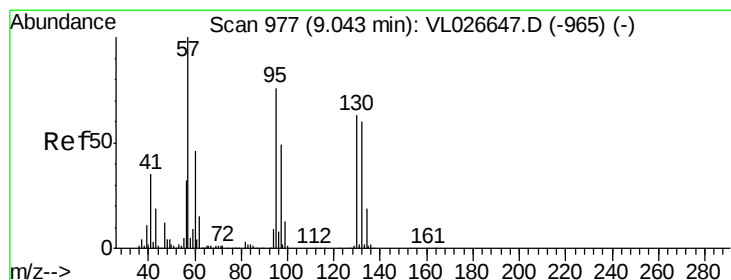
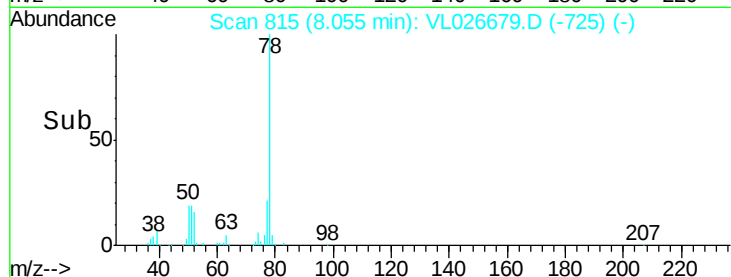
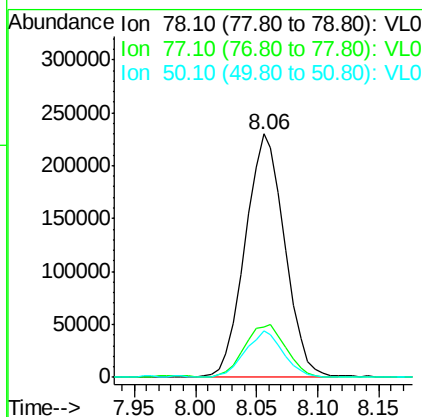
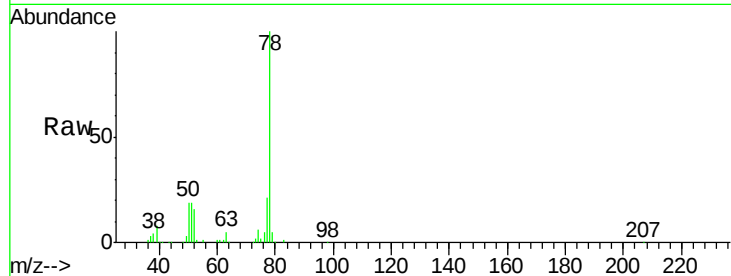
ClientSampled :

SS-1

Tot Ion:	78	Resp:	515338
Ion Ratio	Lower	Upper	
78	100		
77	20.6	18.5	27.7
50	18.9	15.4	23.2

Manual Integrations
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#38

Trichloroethene

Concen: 0.33 ppbv

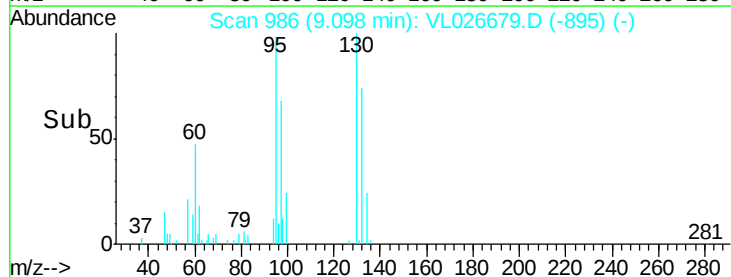
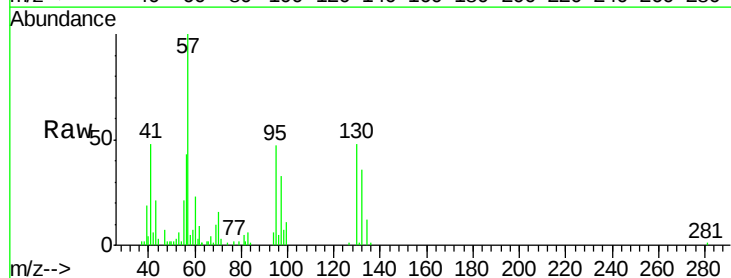
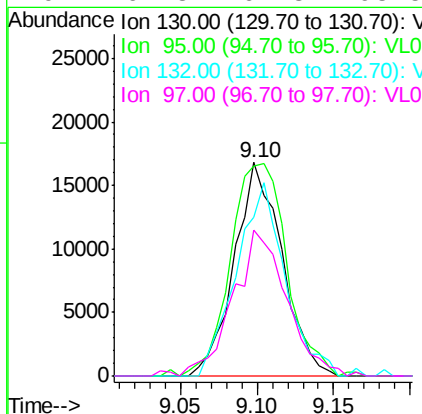
RT: 9.10 min Scan# 986

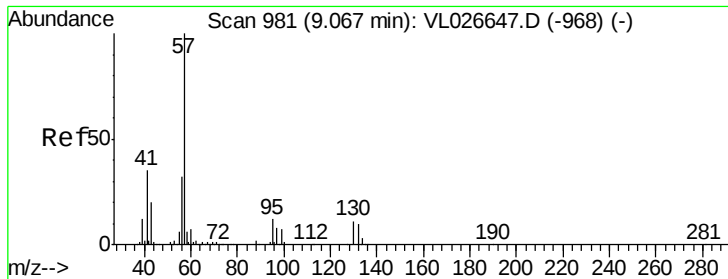
Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion:	130	Resp:	36499
Ion Ratio	Lower	Upper	
130	100		
95	98.0	96.6	145.0
132	74.5	76.2	114.4#
97	64.8	62.3	93.5





#44

2,2,4-Trimethylpentane

Concen: 0.75 ppbv

RT: 9.12 min Scan# 990

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

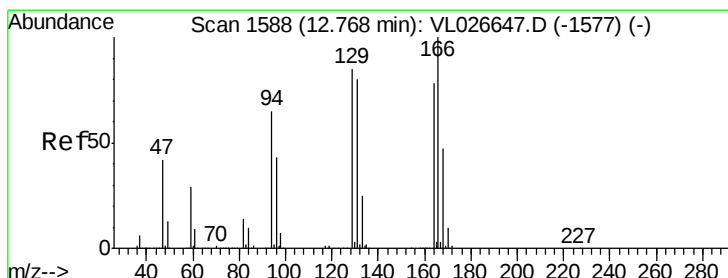
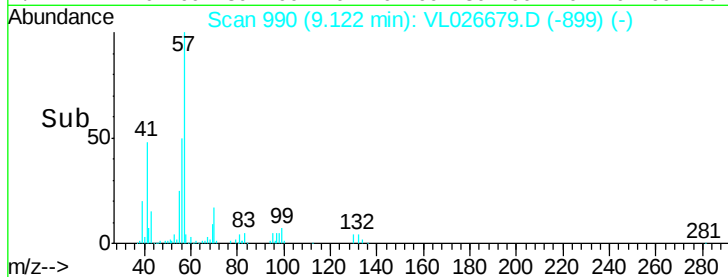
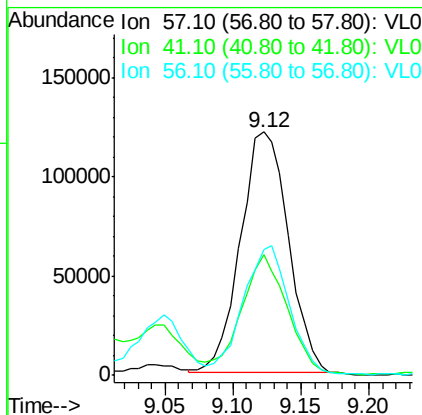
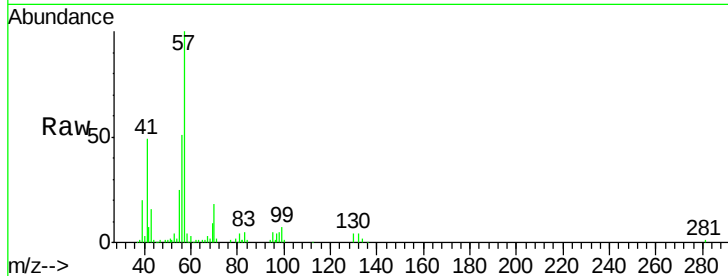
ClientSampleId :

SS-1

Tot Ion:	57	Resp:	299306
Ion Ratio		Lower	Upper
57	100		
41	47.9	26.9	40.3#
56	52.6	25.4	38.0#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.15 ppbv

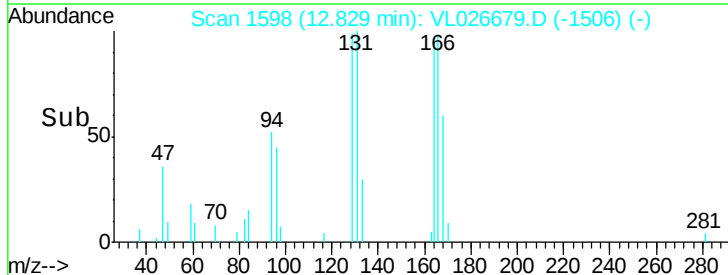
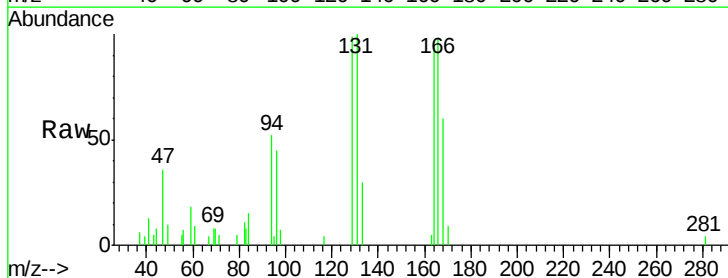
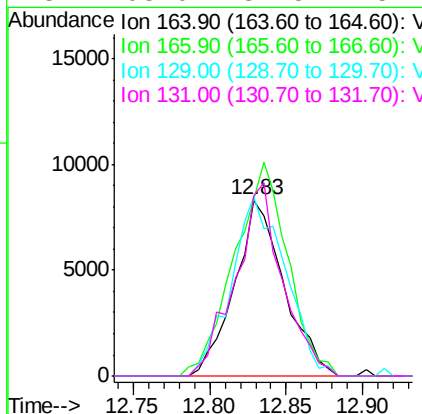
RT: 12.83 min Scan# 1598

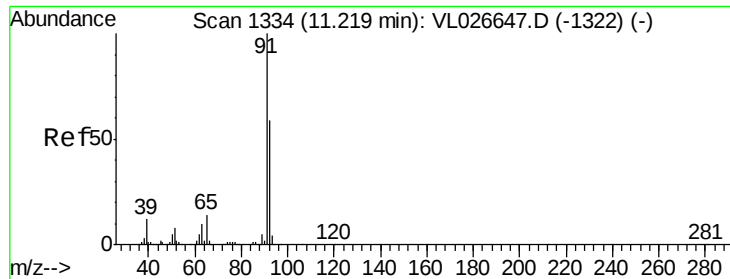
Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion:	164	Resp:	18756
Ion Ratio		Lower	Upper
164	100		
166	100.4	102.5	153.7#
129	101.8	87.0	130.6
131	103.0	82.5	123.7





#53

Toluene

Concen: 6.10 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 91 Resp: 2128298

Ion Ratio Lower Upper

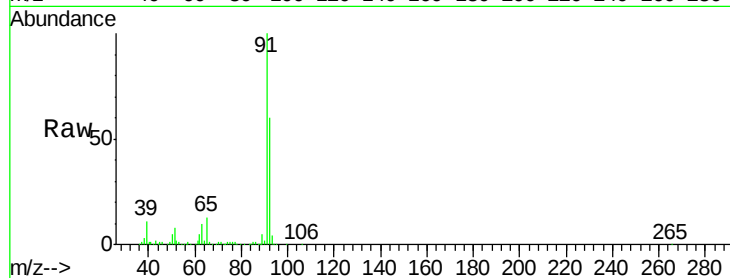
91 100

92 60.5 48.2 72.4

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

11.27

800000

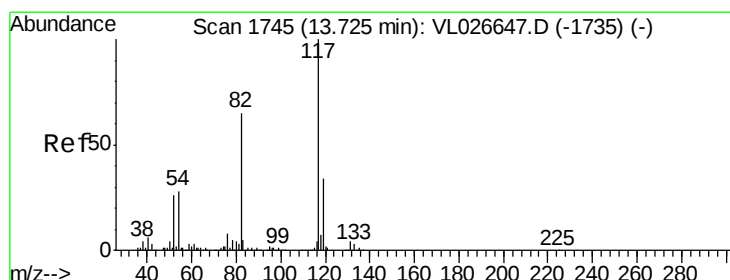
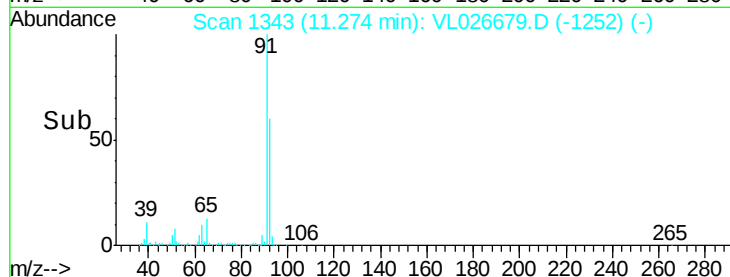
600000

400000

200000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

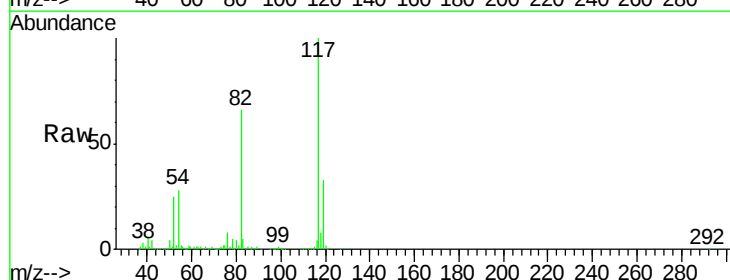
Tgt Ion: 117 Resp: 3116877

Ion Ratio Lower Upper

117 100

82 65.3 49.7 74.5

119 32.0 43.8 65.8#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

13.79

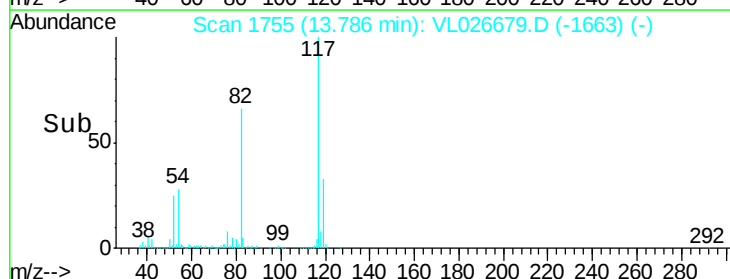
1500000

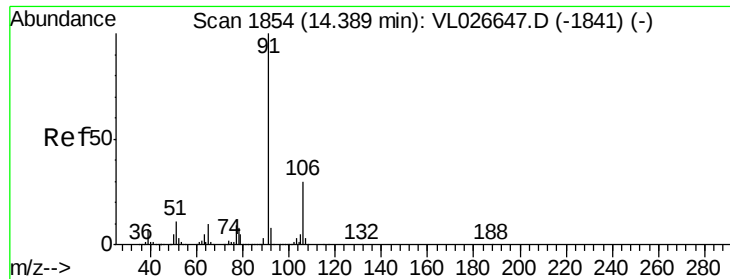
1000000

500000

0

Time-->





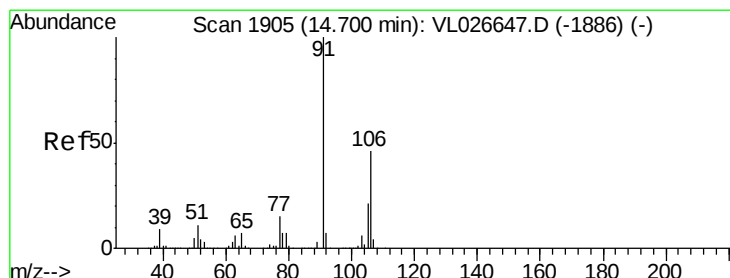
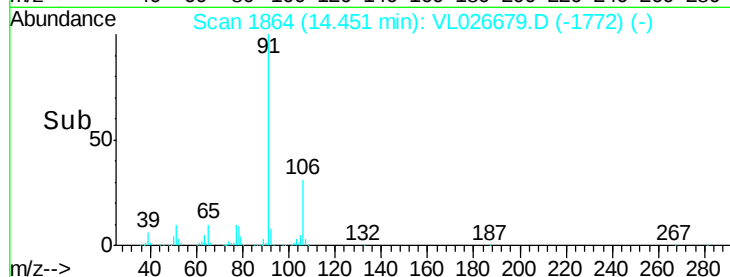
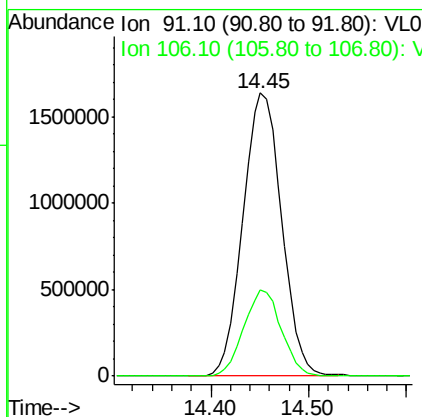
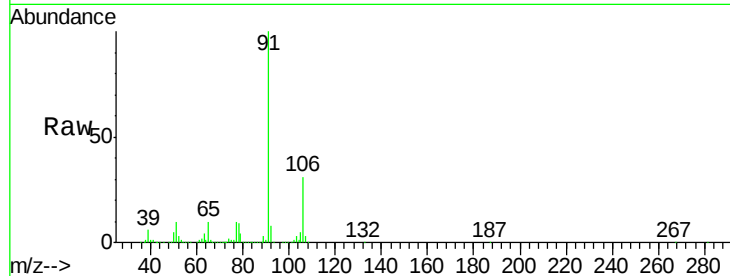
#58
Ethyl Benzene
Concen: 8.07 ppbv
RT: 14.45 min Scan# 1864
Delta R.T. 0.06 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tot Ion: 91 Resp: 4492798
Ion Ratio Lower Upper
91 100
106 30.7 23.8 35.6

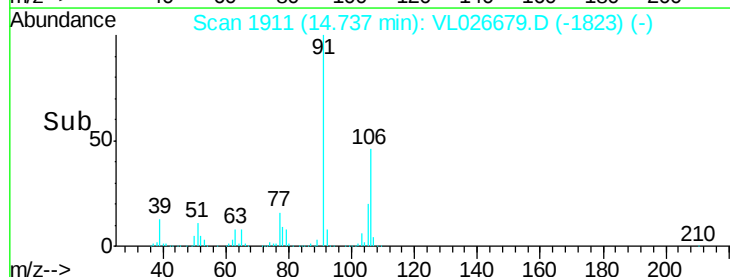
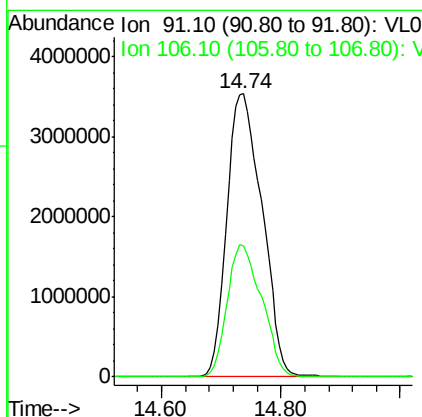
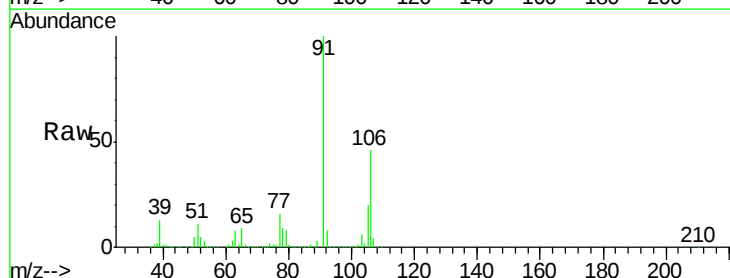
Manual Integrations
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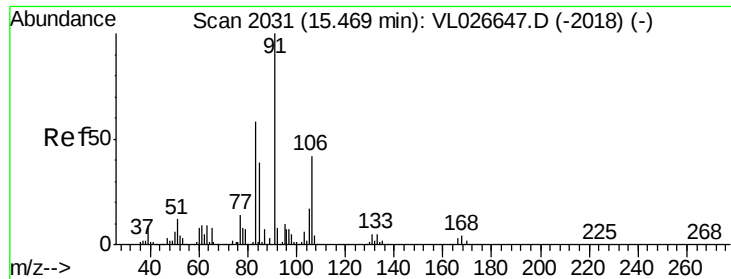
apatel
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#59
m/p-Xylene
Concen: 31.62 ppbv
RT: 14.74 min Scan# 1911
Delta R.T. 0.04 min
Lab File: VL026679.D
Acq: 12 Jan 2016 17:55

Tgt Ion: 91 Resp: 14510407
Ion Ratio Lower Upper
91 100
106 46.1 36.6 55.0





#60

o-Xylene

Concen: 13.34 ppbv

RT: 15.53 min Scan# 2041

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 91 Resp: 6614940

Ion Ratio Lower Upper

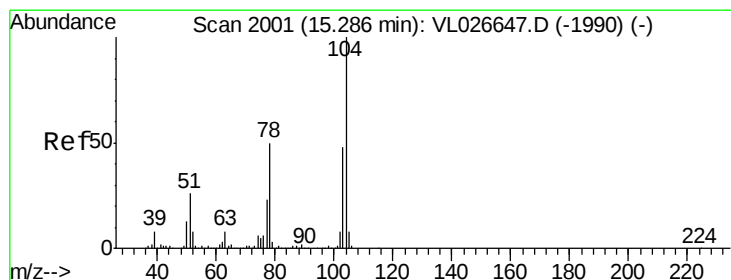
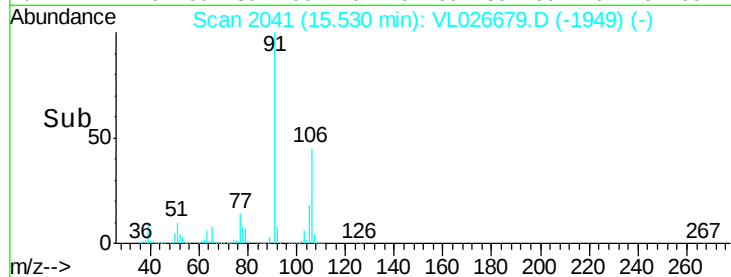
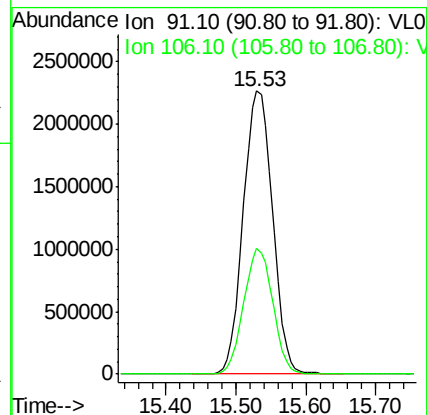
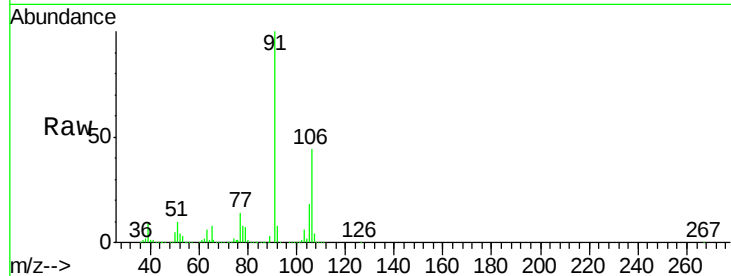
91 100

106 44.0 21.5 64.5

Manual Integrations
APPROVED

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#61

Styrene

Concen: 0.45 ppbv

RT: 15.36 min Scan# 2013

Delta R.T. 0.07 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

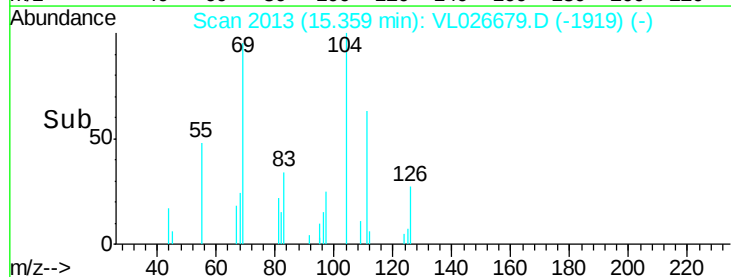
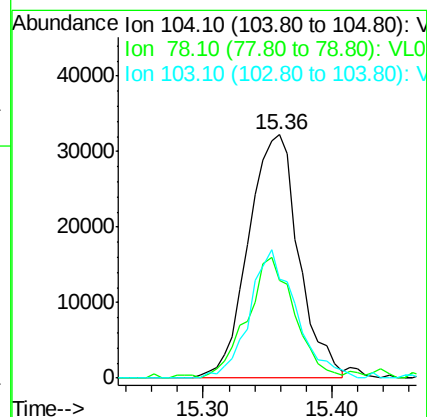
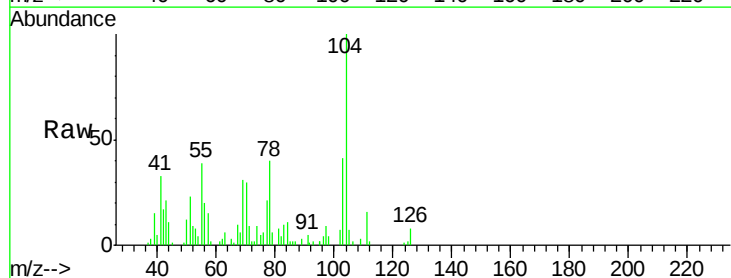
Tgt Ion: 104 Resp: 87351

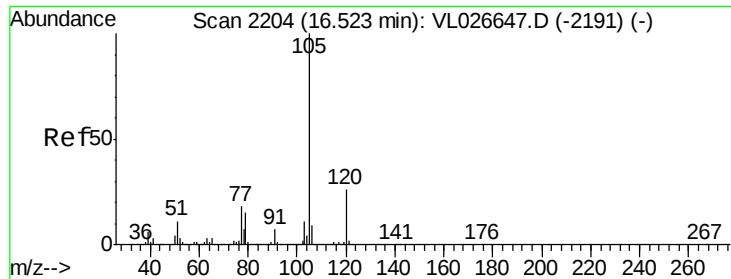
Ion Ratio Lower Upper

104 100

78 47.9 39.6 59.4

103 48.7 37.8 56.6





#62

Isopropylbenzene

Concen: 0.21 ppbv

RT: 16.58 min Scan# 2214

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion:105 Resp: 136810

Ion Ratio Lower Upper

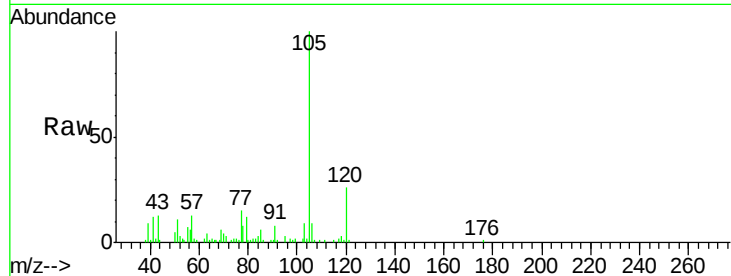
105 100

120 26.7 20.3 30.5

Manual Integrations
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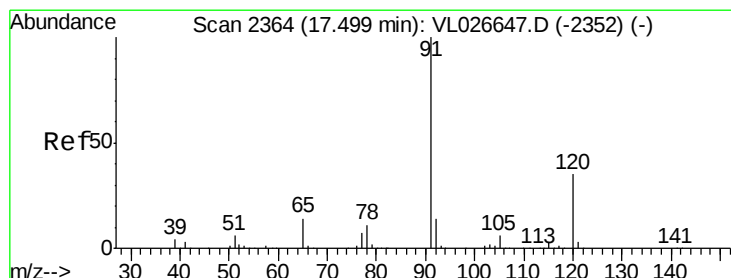
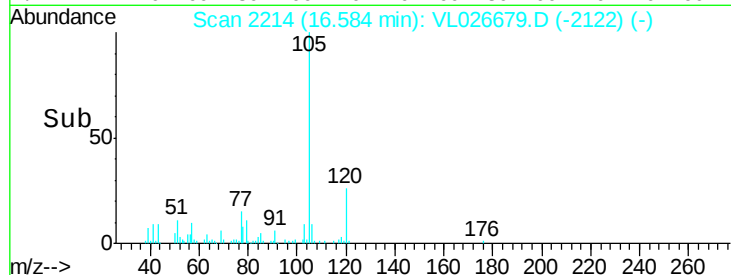
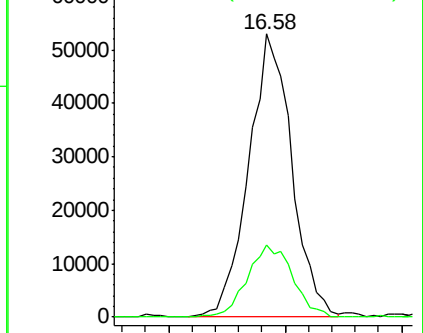
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.43 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. 0.06 min

Lab File: VL026679.D

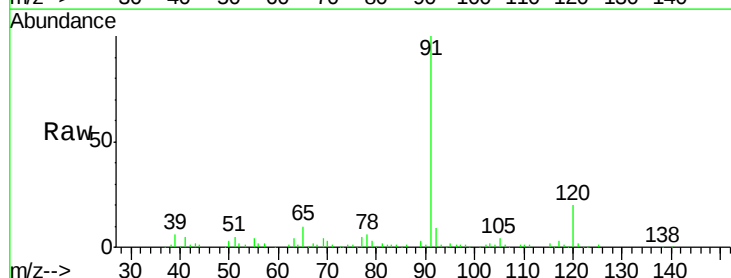
Acq: 12 Jan 2016 17:55

Tgt Ion:120 Resp: 75739

Ion Ratio Lower Upper

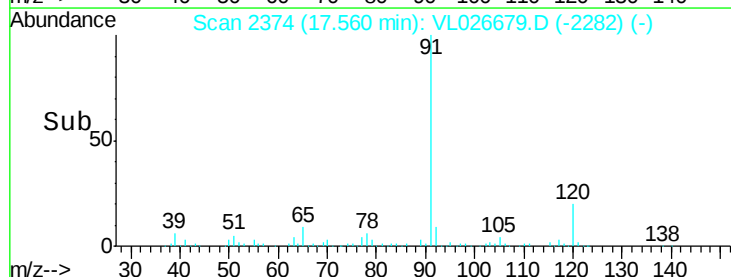
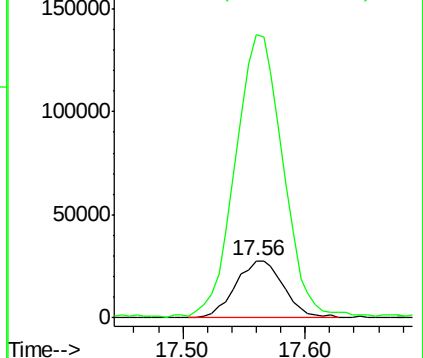
120 100

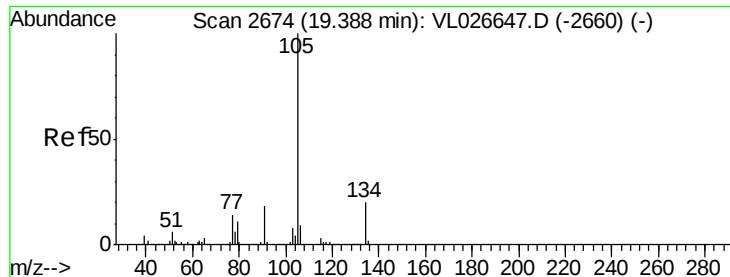
91 492.9 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#67

sec-Butylbenzene

Concen: 0.08 ppbv

RT: 19.45 min Scan# 2684

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tot Ion: 105 Resp: 75134

Ion Ratio Lower Upper

105 100

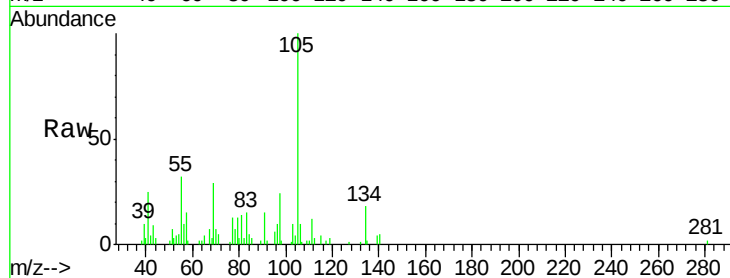
134 20.3 14.9 22.3

Manual Integrations

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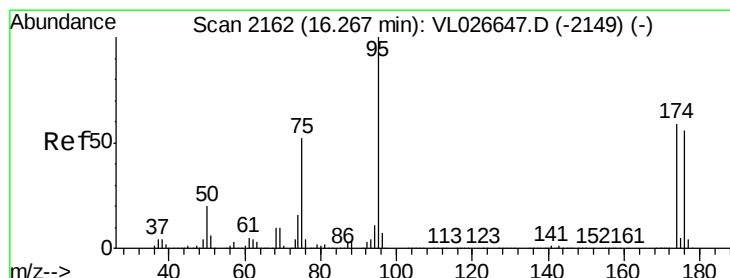
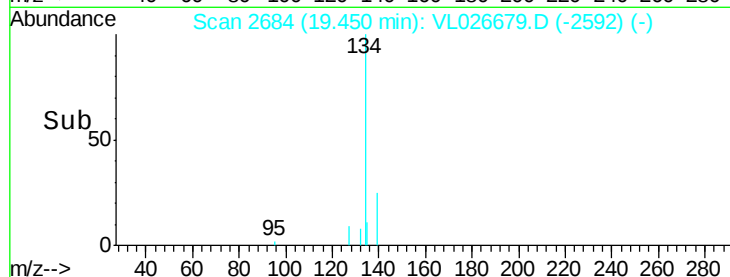
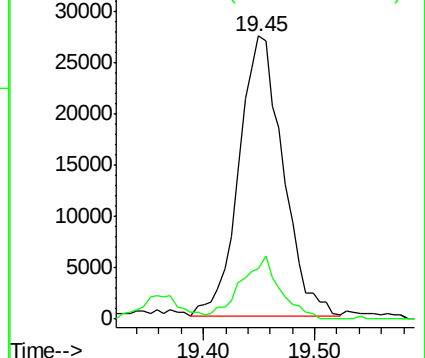
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.07 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

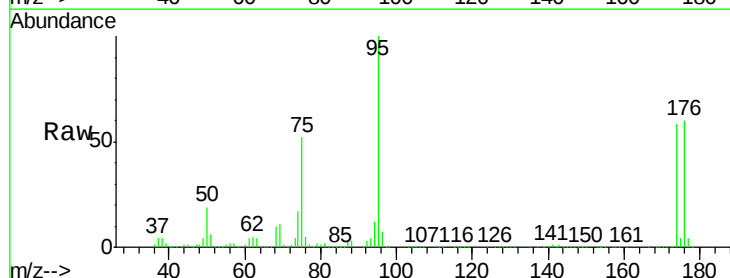
Tgt Ion: 95 Resp: 2502318

Ion Ratio Lower Upper

95 100

174 60.5 47.8 71.8

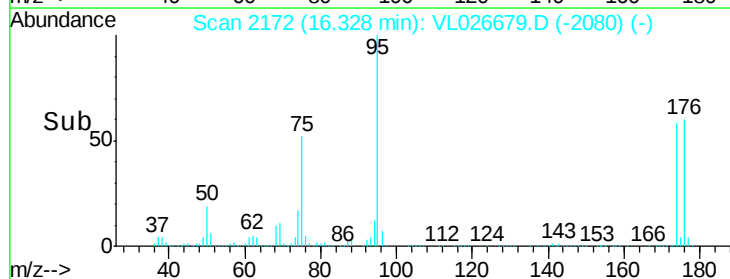
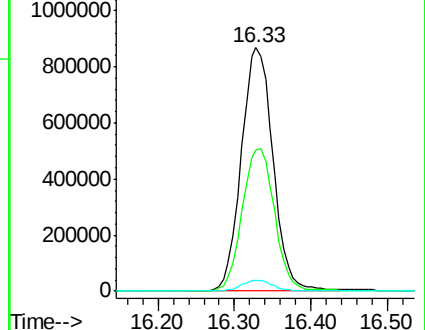
175 4.5 3.6 5.4

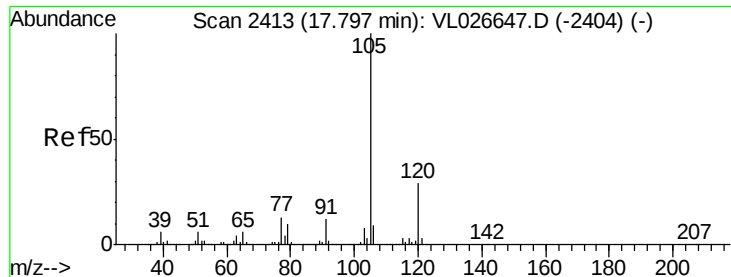


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.77 ppbv

RT: 17.86 min Scan# 2423

Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Instrument :

MSVOA_L

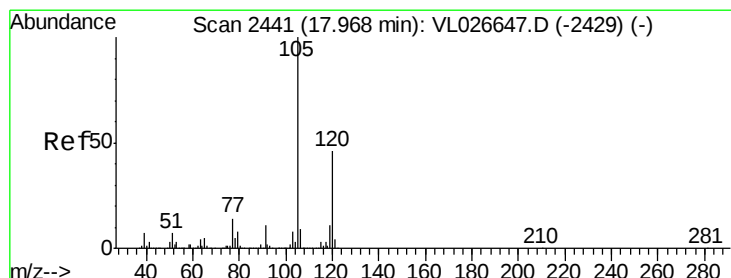
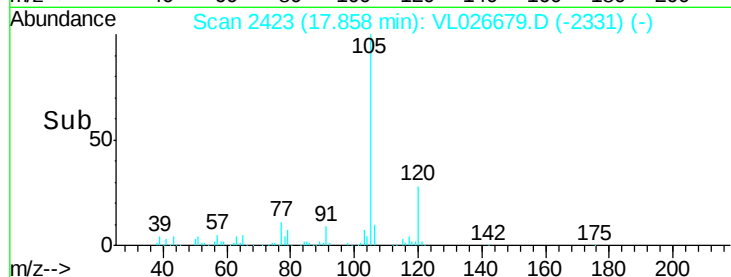
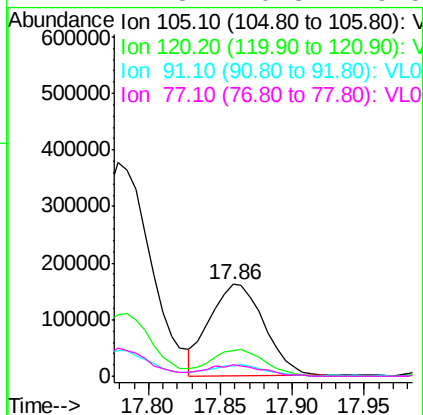
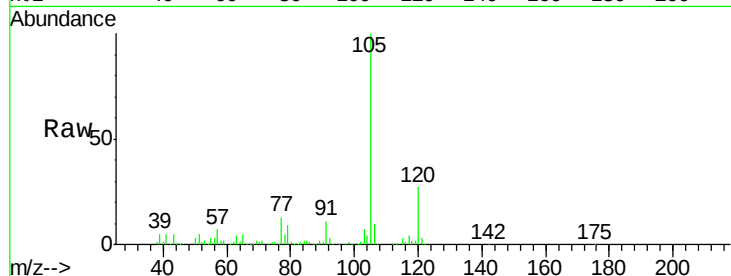
ClientSampled :

SS-1

Tot Ion:	105	Resp:	427812
Ion Ratio		Lower	Upper
105	100		
120	28.1	23.7	35.5
91	11.3	9.7	14.5
77	11.3	10.3	15.5

Manual Integrations
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#73

1,3,5-Trimethylbenzene

Concen: 0.70 ppbv

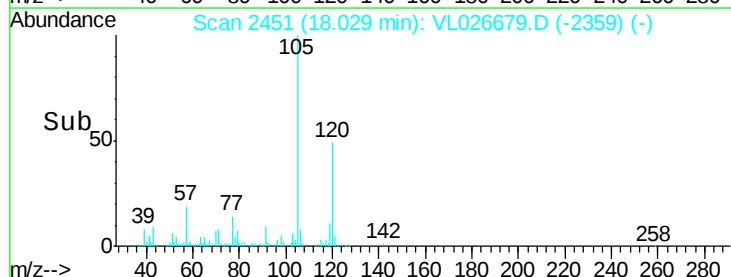
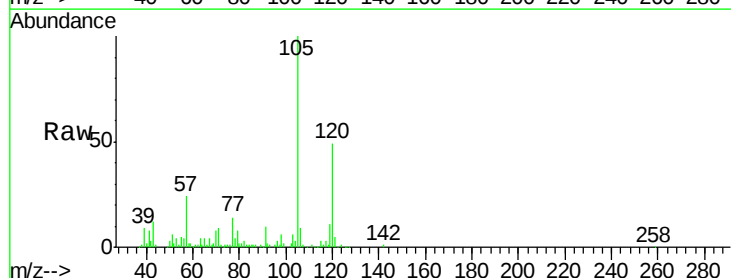
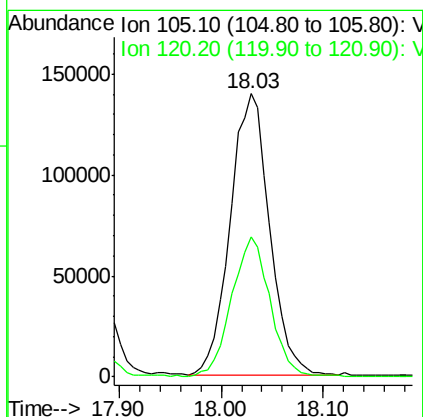
RT: 18.03 min Scan# 2451

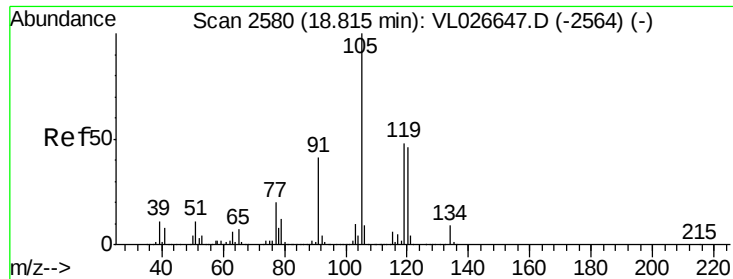
Delta R.T. 0.06 min

Lab File: VL026679.D

Acq: 12 Jan 2016 17:55

Tgt Ion:	105	Resp:	369602
Ion Ratio		Lower	Upper
105	100		
120	49.5	36.6	54.8





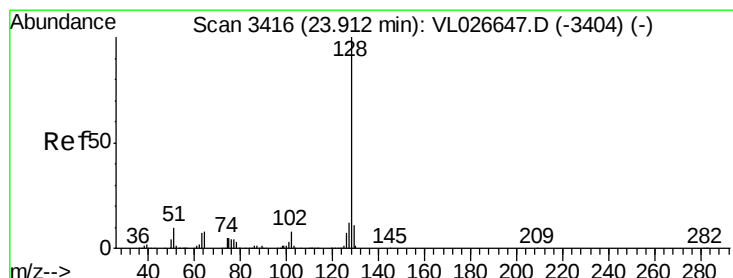
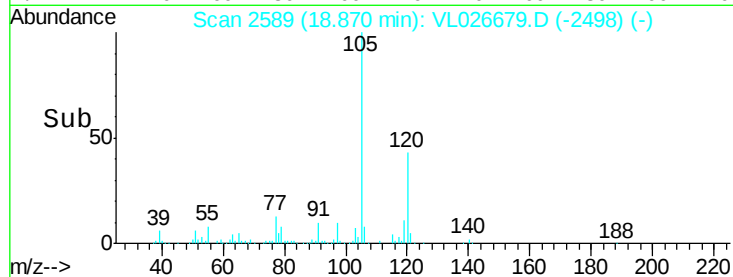
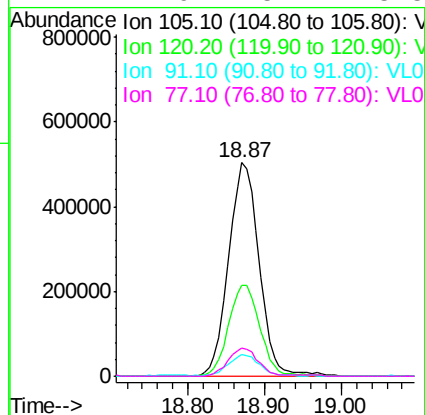
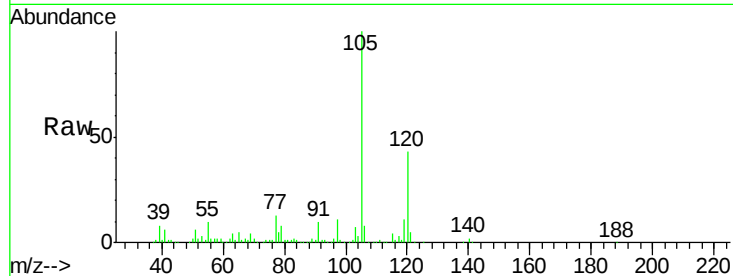
#74
 1,2,4-Trimethylbenzene
 Concen: 2.49 ppbv
 RT: 18.87 min Scan# 2589
 Delta R.T. 0.05 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion	105	Resp	1391610
Ion Ratio	Lower	Upper	
105	100		
120	42.6	36.6	55.0
91	9.8	32.5	48.7#
77	12.9	15.7	23.5#

Manual Integrations
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#79
 Naphthalene
 Concen: 0.19 ppbv m
 RT: 23.97 min Scan# 3426
 Delta R.T. 0.06 min
 Lab File: VL026679.D
 Acq: 12 Jan 2016 17:55

Tgt Ion	128	Resp	70545
Ion Ratio	Lower	Upper	
128	100		
127	10.6	9.8	14.8
129	12.9	8.9	13.3

