

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025768.D
 Acq On : 28 Jul 2015 1:00
 Operator : SY/MD
 Sample : G3100-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Quant Time: Jul 28 04:12:54 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	891166	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	2381015	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.74	117	2917350	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.28	95	2503213	10.17	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

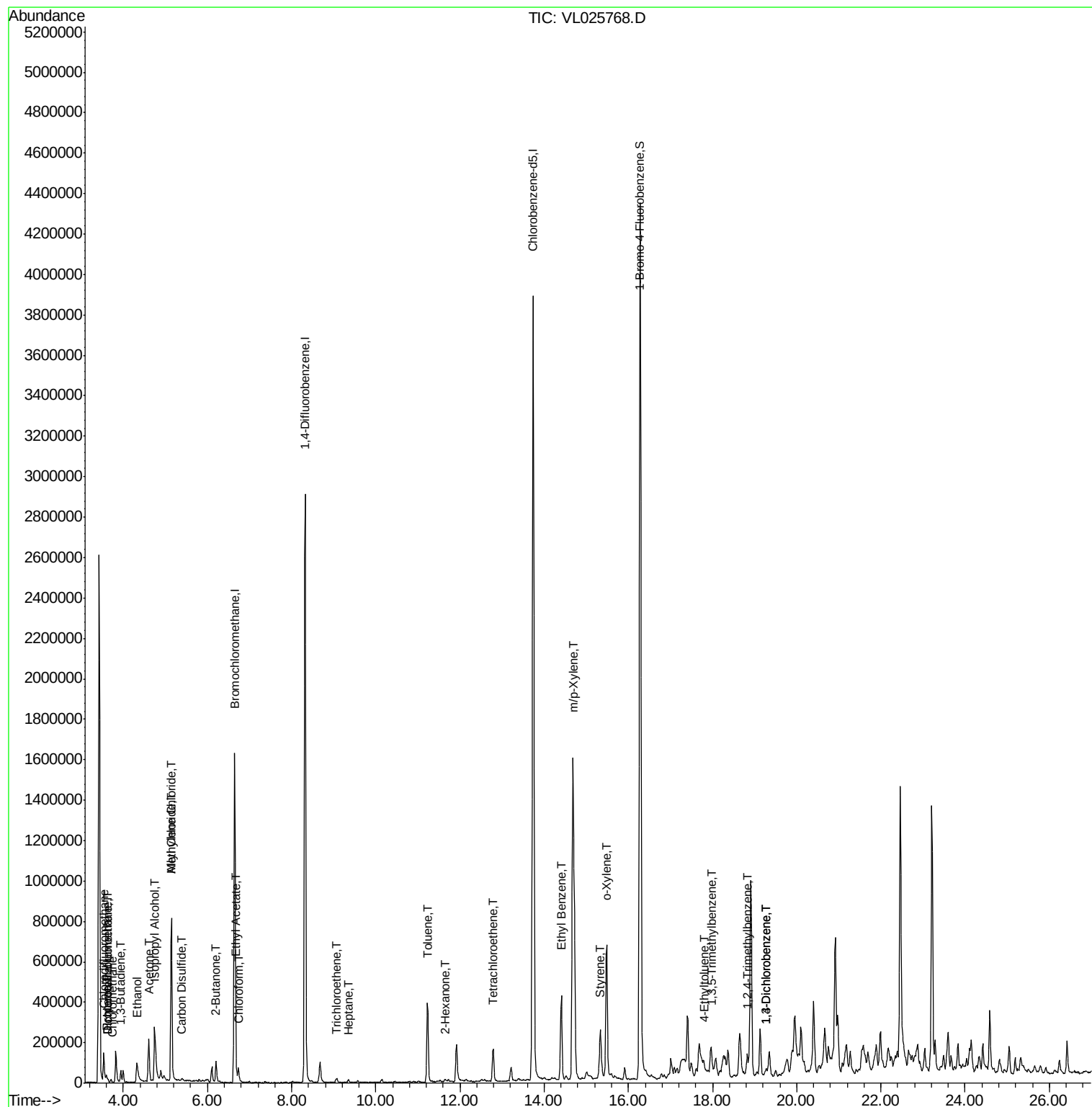
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	12070	0.05	ppbv	99
3) Chlorodifluoromethane	3.54	51	115072	0.92	ppbv #	54
4) Chloromethane	3.75	50	2793	0.05	ppbv	98
8) Dichlorotetrafluoroethane	3.64	85	12070	0.06	ppbv #	17
9) Propene	3.59	41	12846	0.31	ppbv	91
10) Heptane	9.35	43	7808	0.05	ppbv #	53
13) Ethanol	4.32	45	159071	24.52	ppbv	95
15) Acetone	4.60	43	190892	1.21	ppbv #	85
16) 1,3-Butadiene	3.95	39	18114	0.29	ppbv #	20
19) Isopropyl Alcohol	4.75	45	456941	7.27	ppbv	100
20) Methylene Chloride	5.14	84	363729	5.69	ppbv	97
21) Allyl Chloride	5.14	41	9365	0.10	ppbv #	34
25) Ethyl Acetate	6.68	43	13022	0.05	ppbv #	54
27) Carbon Disulfide	5.39	76	10481	0.06	ppbv #	29
29) Chloroform	6.74	83	49864	0.23	ppbv	98
34) 2-Butanone	6.20	43	141065	1.04	ppbv	100
38) Trichloroethene	9.06	130	3664	0.03	ppbv #	76
51) 2-Hexanone	11.65	43	11343	0.06	ppbv #	92
52) Tetrachloroethene	12.79	164	49519	0.43	ppbv	82
53) Toluene	11.23	91	360453	1.12	ppbv	100
58) Ethyl Benzene	14.41	91	434330	0.90	ppbv	99
59) m/p-Xylene	14.68	91	1928669	4.55	ppbv	99
60) o-Xylene	15.49	91	611614	1.34	ppbv	99
61) Styrene	15.31	104	8076	0.05	ppbv #	87
72) 4-Ethyltoluene	17.82	105	20017	0.04	ppbv #	90
73) 1,3,5-Trimethylbenzene	17.98	105	24880	0.05	ppbv	94
74) 1,2,4-Trimethylbenzene	18.83	105	55543	0.10	ppbv #	67
75) 1,3-Dichlorobenzene	19.27	146	12476	0.03	ppbv #	65
76) 1,4-Dichlorobenzene	19.27	146	12476	0.03	ppbv #	59

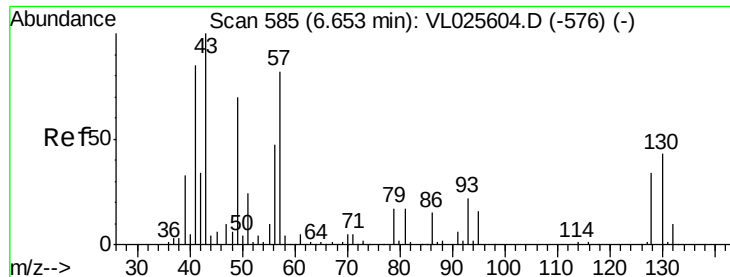
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

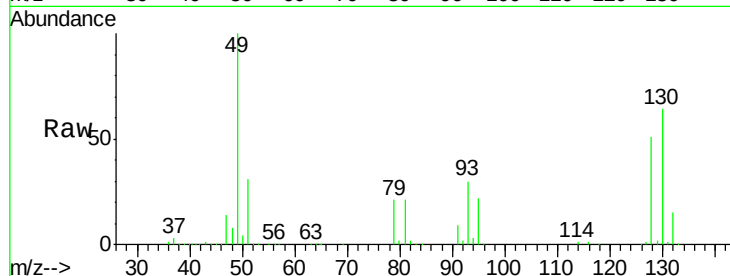
Tot Ion: 49 Resp: 891166

Ion Ratio Lower Upper

49 100

128 50.7 25.4 76.0

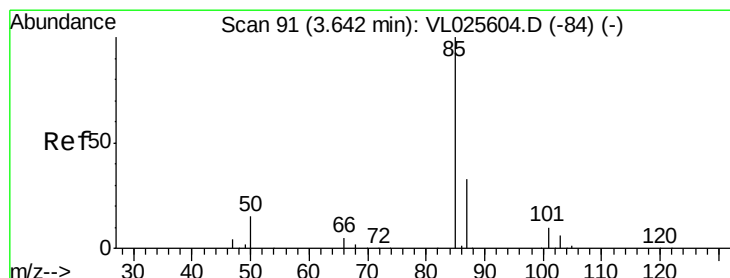
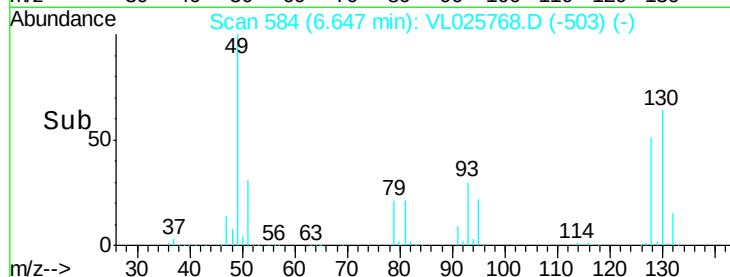
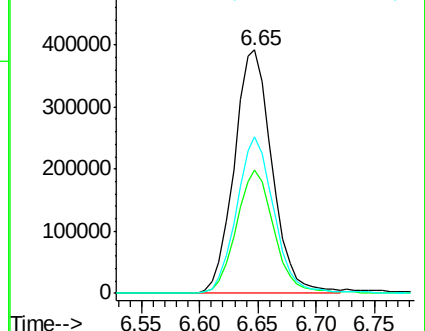
130 64.2 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.64 min Scan# 90

Delta R.T. -0.01 min

Lab File: VL025768.D

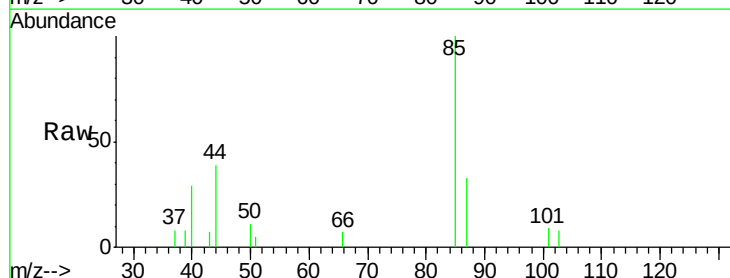
Acq: 28 Jul 2015 1:00

Tgt Ion: 85 Resp: 12070

Ion Ratio Lower Upper

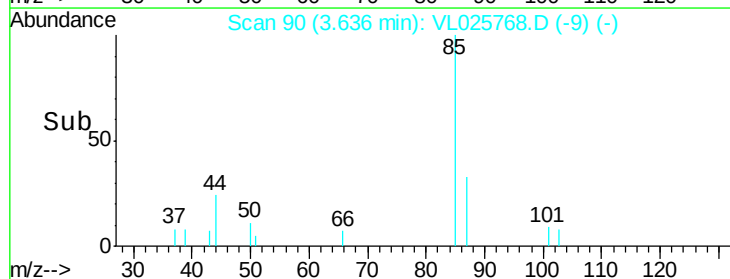
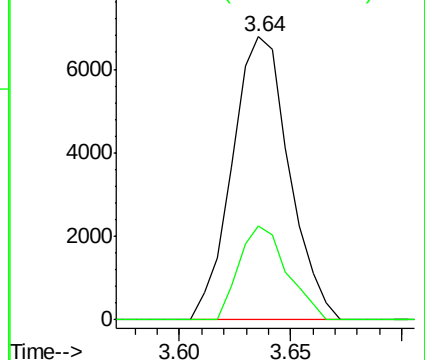
85 100

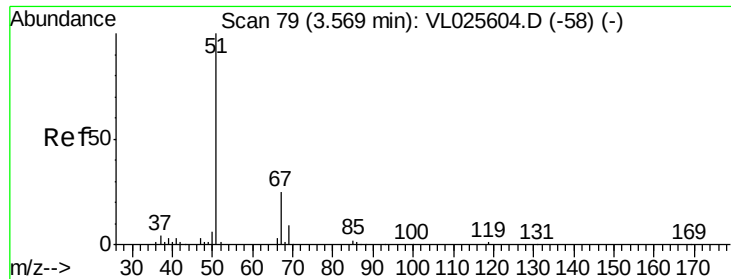
87 33.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.92 ppbv

RT: 3.54 min Scan# 74

Delta R.T. -0.03 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

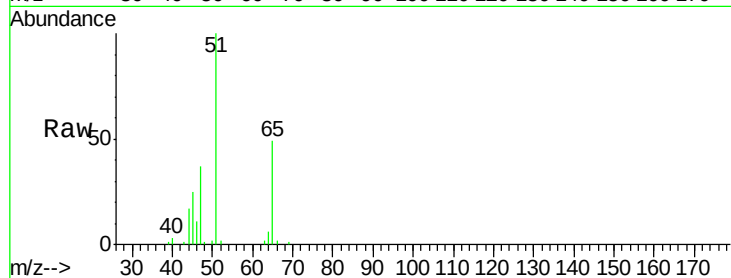
SV-1DL

Tot Ion: 51 Resp: 115072

Ion Ratio Lower Upper

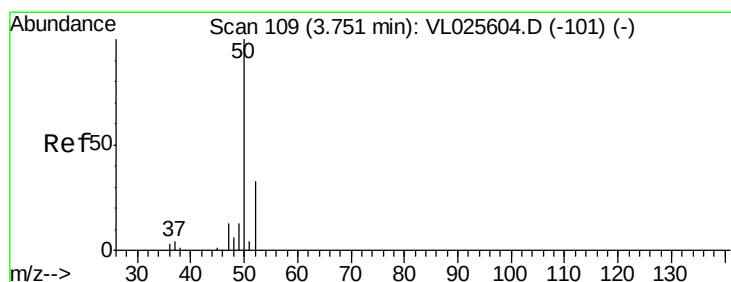
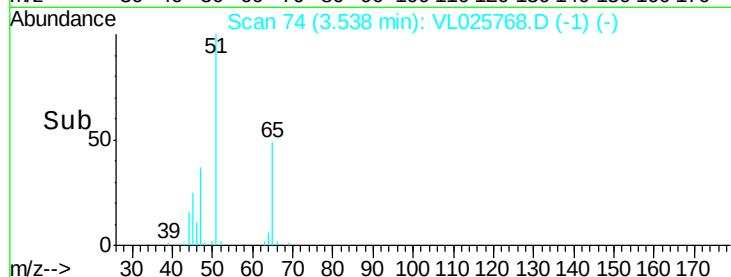
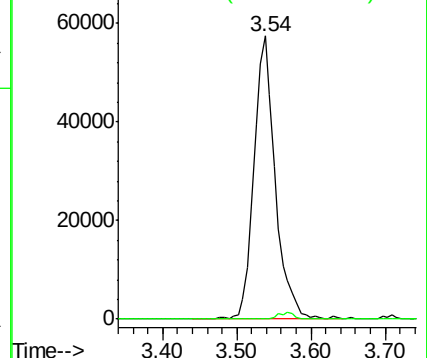
51 100

67 1.7 19.5 29.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.05 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL025768.D

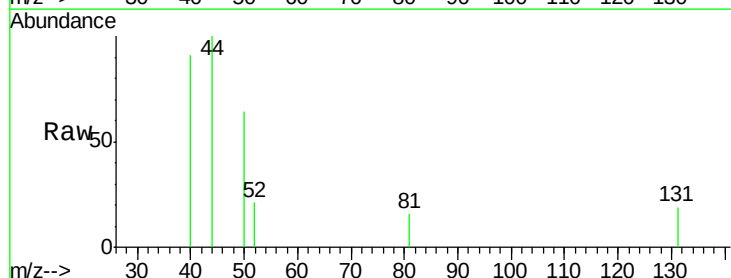
Acq: 28 Jul 2015 1:00

Tgt Ion: 50 Resp: 2793

Ion Ratio Lower Upper

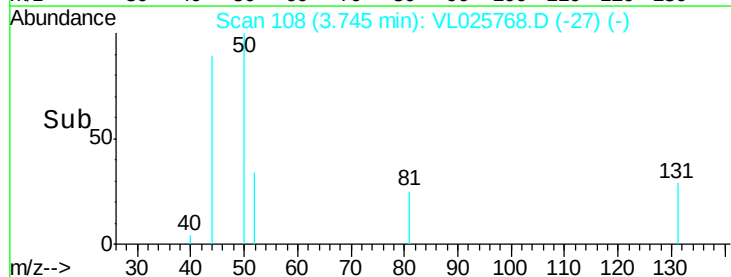
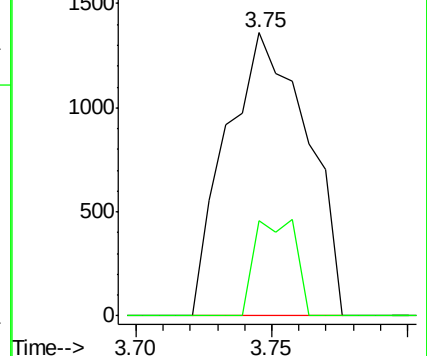
50 100

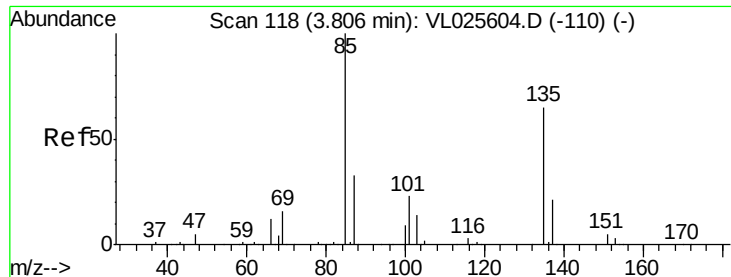
52 33.7 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.06 ppbv

RT: 3.64 min Scan# 90

Delta R.T. -0.17 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

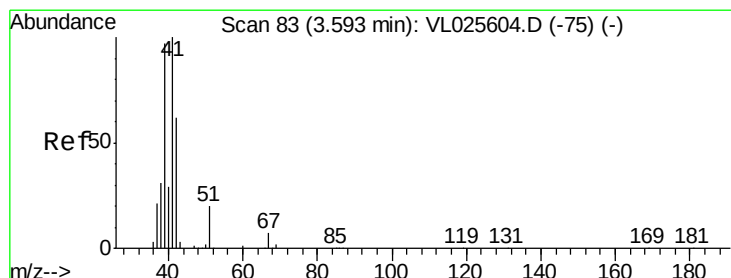
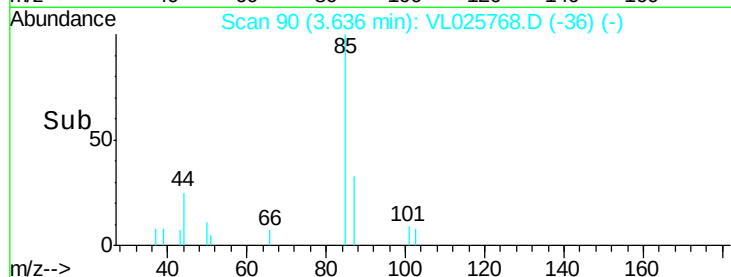
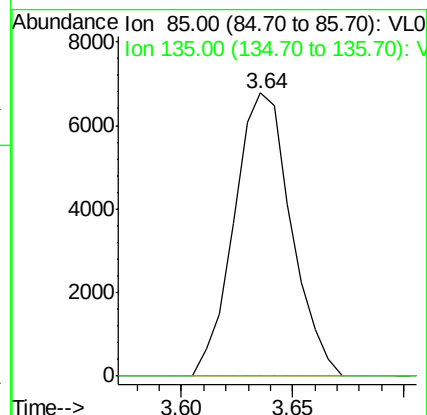
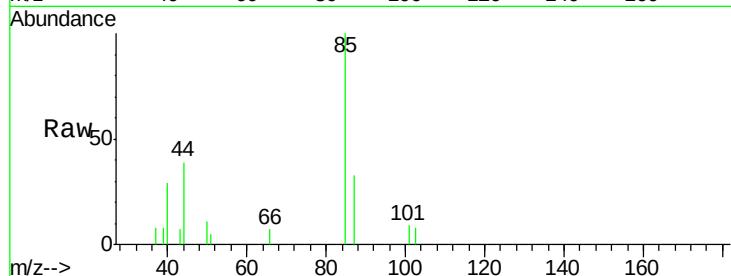
SV-1DL

Tot Ion: 85 Resp: 12070

Ion Ratio Lower Upper

85 100

135 0.0 52.2 78.4#



#9

Propene

Concen: 0.31 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL025768.D

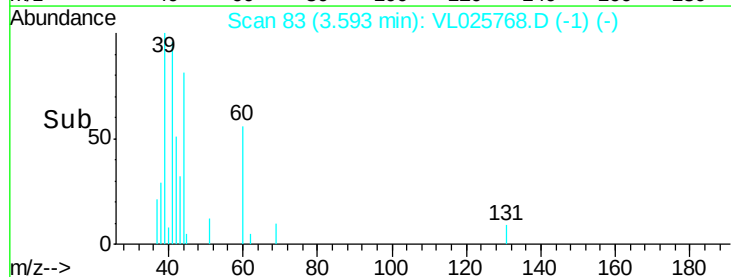
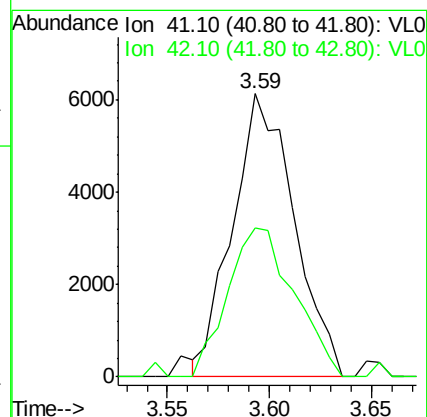
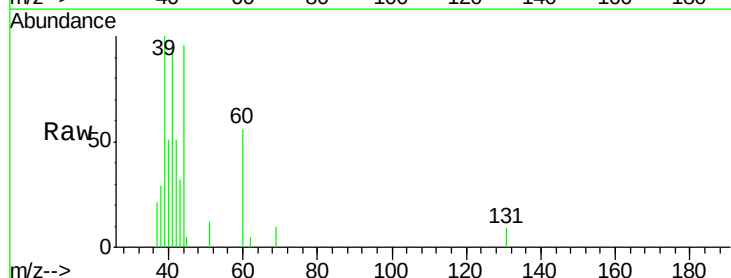
Acq: 28 Jul 2015 1:00

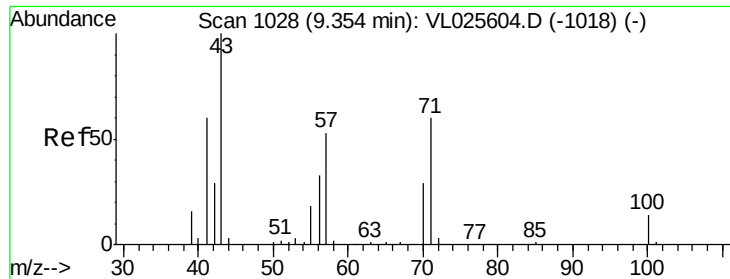
Tgt Ion: 41 Resp: 12846

Ion Ratio Lower Upper

41 100

42 58.5 52.4 78.6

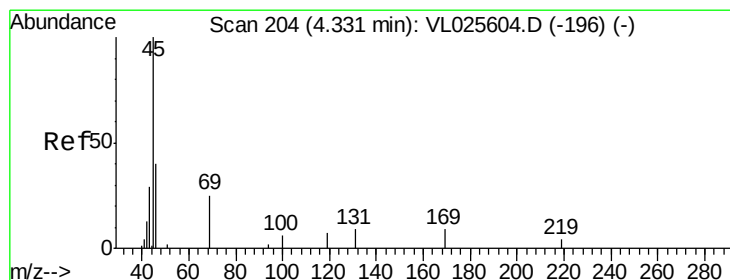
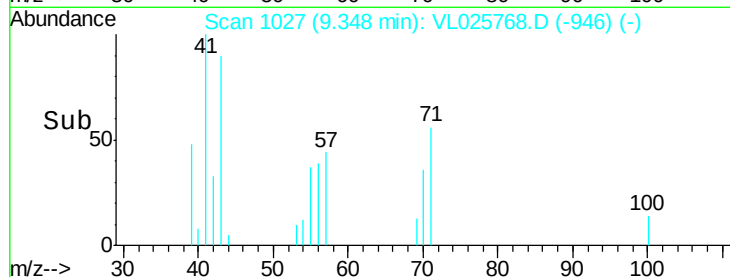
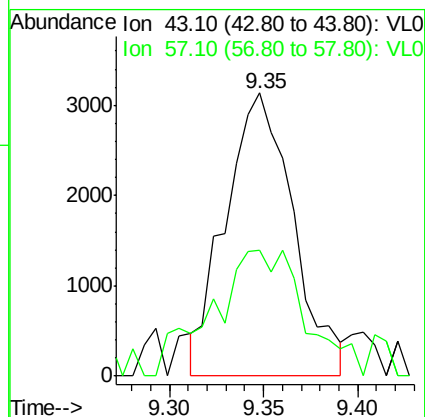
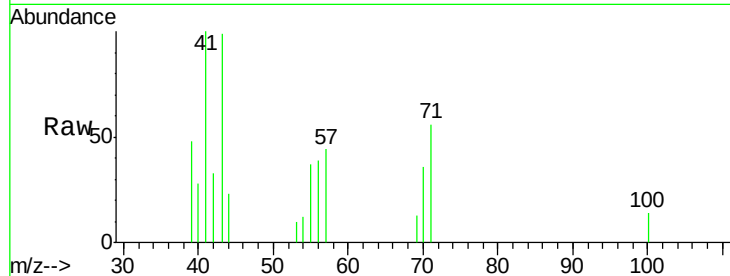




#10
Heptane
Concen: 0.05 ppbv
RT: 9.35 min Scan# 1027
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

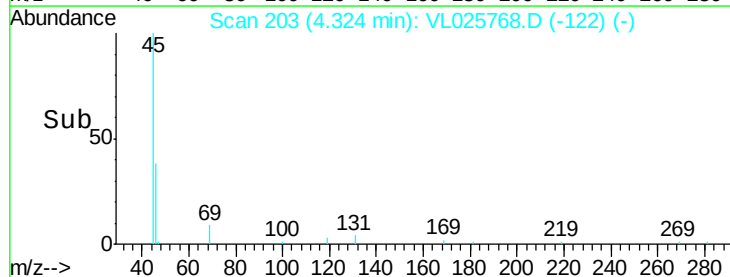
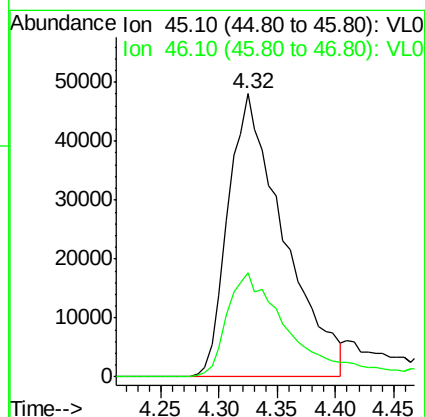
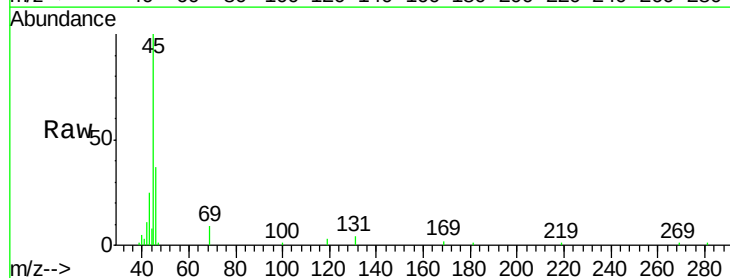
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

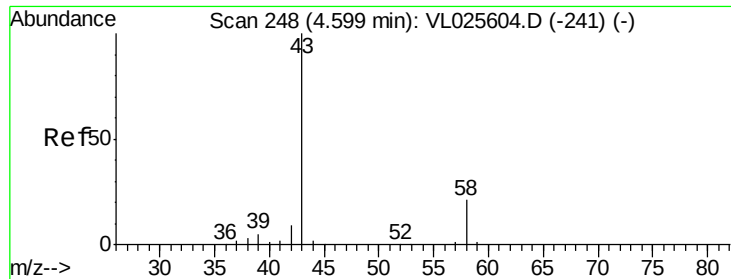
Tot Ion: 43 Resp: 7808
Ion Ratio Lower Upper
43 100
57 86.6 42.6 64.0#



#13
Ethanol
Concen: 24.52 ppbv
RT: 4.32 min Scan# 203
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Tgt Ion: 45 Resp: 159071
Ion Ratio Lower Upper
45 100
46 43.2 16.0 64.0





#15

Acetone

Concen: 1.21 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

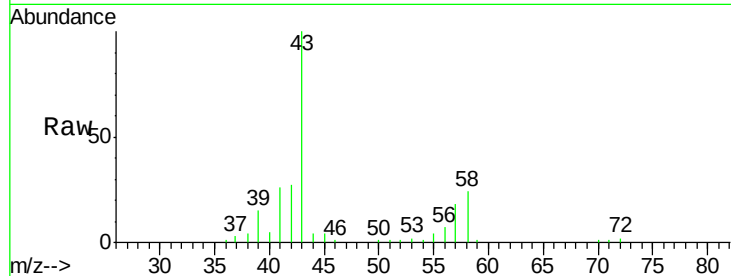
SV-1DL

Tot Ion: 43 Resp: 190892

Ion Ratio Lower Upper

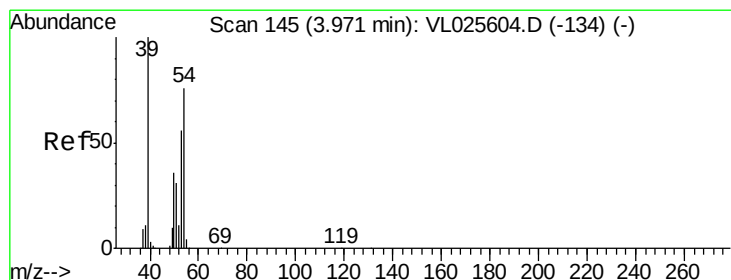
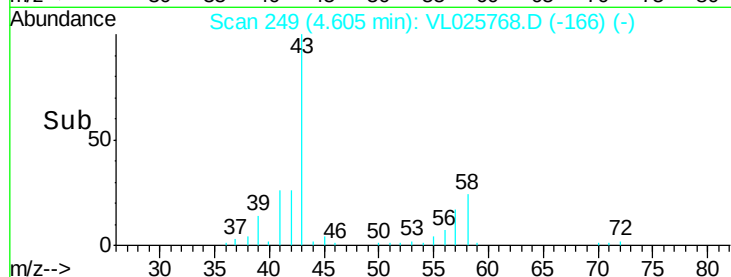
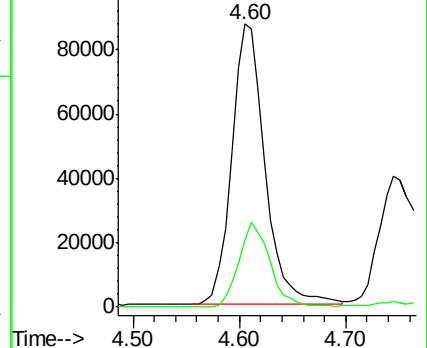
43 100

58 28.7 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.29 ppbv

RT: 3.95 min Scan# 141

Delta R.T. -0.02 min

Lab File: VL025768.D

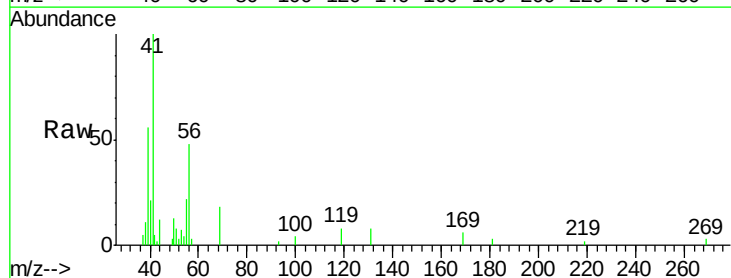
Acq: 28 Jul 2015 1:00

Tgt Ion: 39 Resp: 18114

Ion Ratio Lower Upper

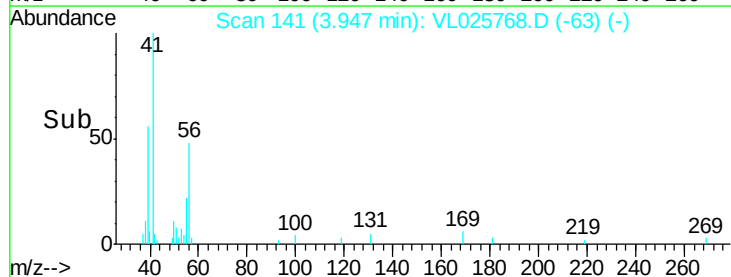
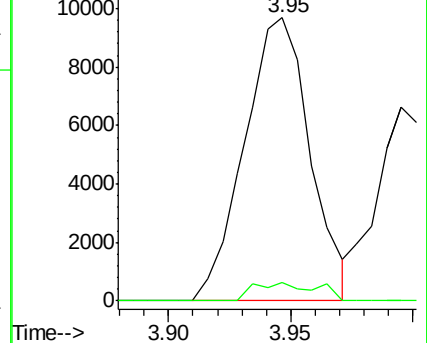
39 100

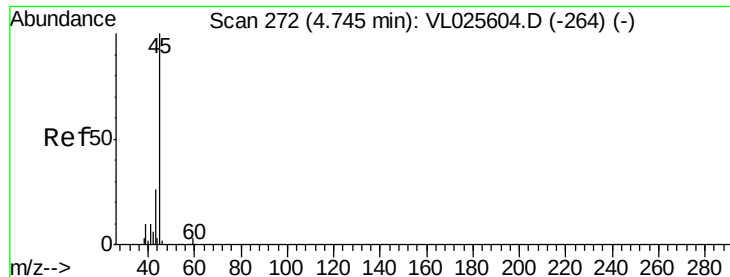
54 6.2 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 7.27 ppbv

RT: 4.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

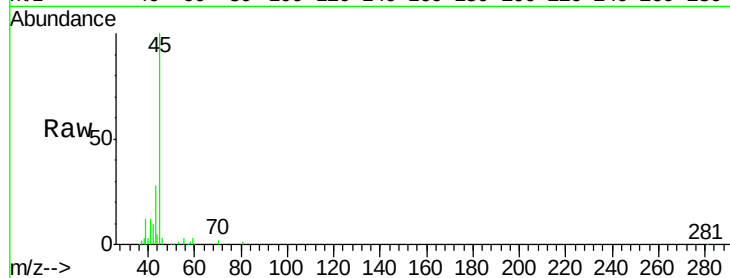
SV-1DL

Tot Ion: 45 Resp: 456941

Ion Ratio Lower Upper

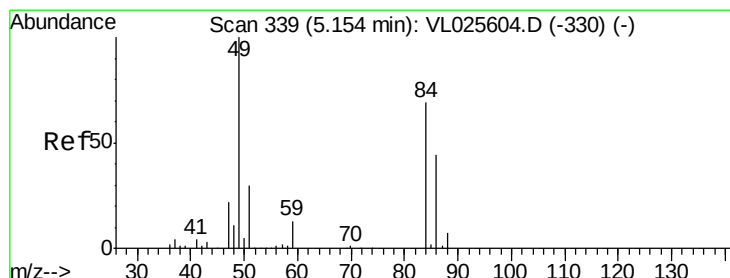
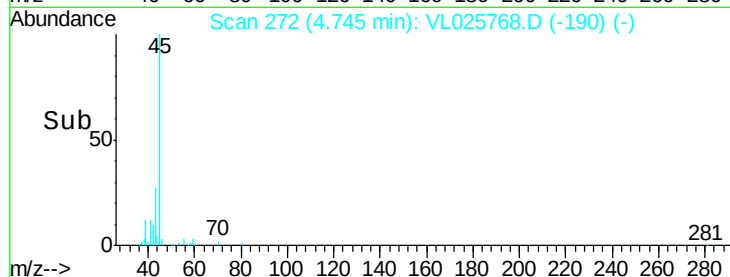
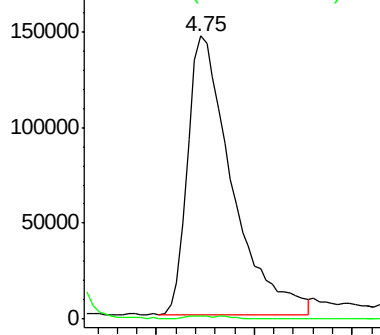
45 100

58 1.3 1.1 1.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 5.69 ppbv

RT: 5.14 min Scan# 337

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Tgt Ion: 84 Resp: 363729

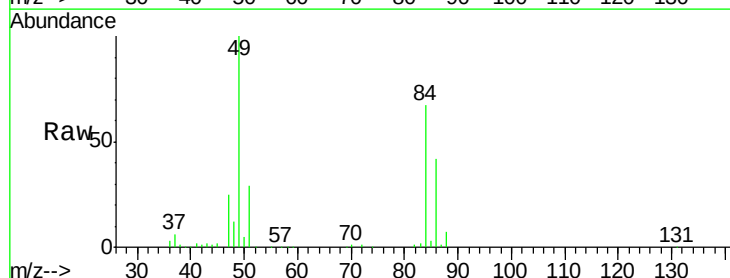
Ion Ratio Lower Upper

84 100

49 148.9 115.2 172.8

51 42.5 35.0 52.6

86 61.9 50.6 76.0

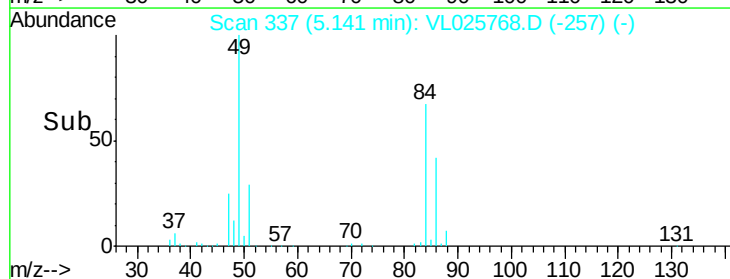
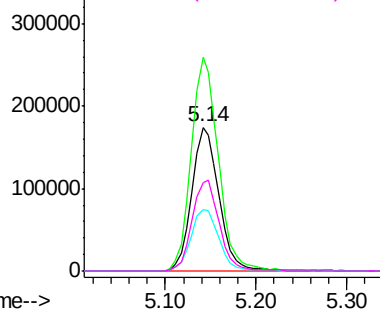


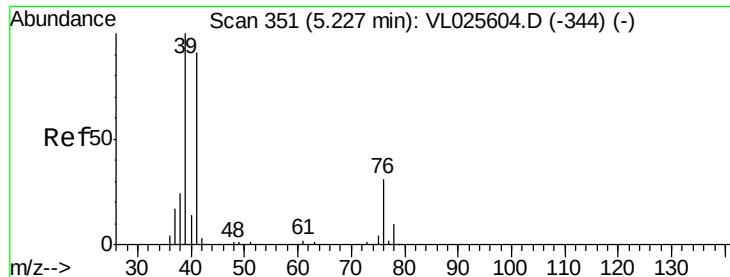
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

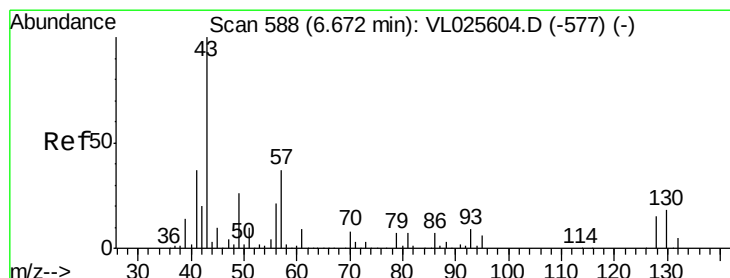
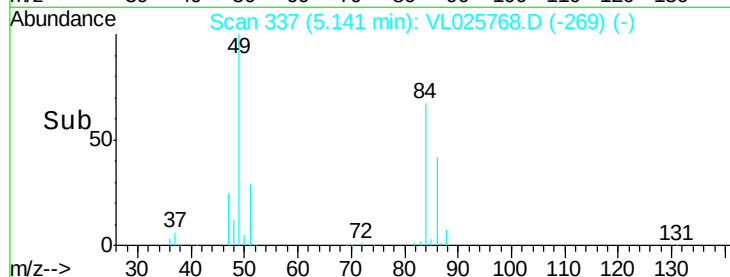
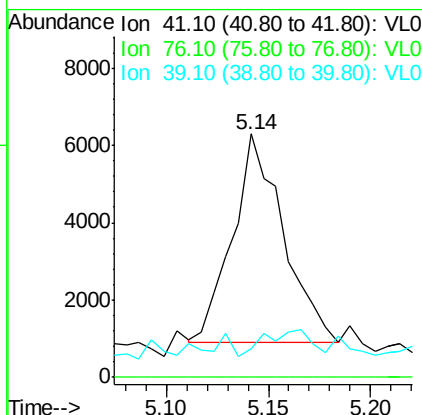
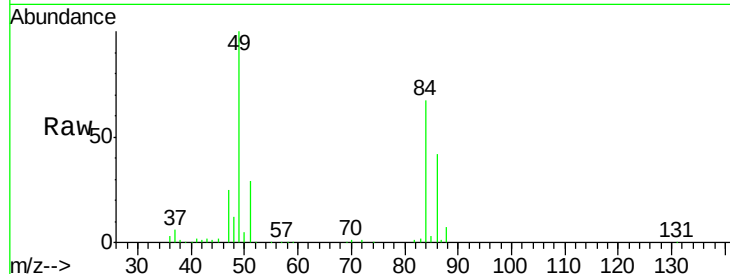




#21
Allvl Chloride
Concen: 0.10 ppbv
RT: 5.14 min Scan# 337
Delta R.T. -0.09 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

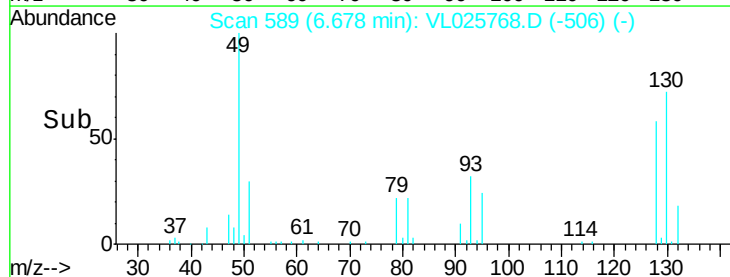
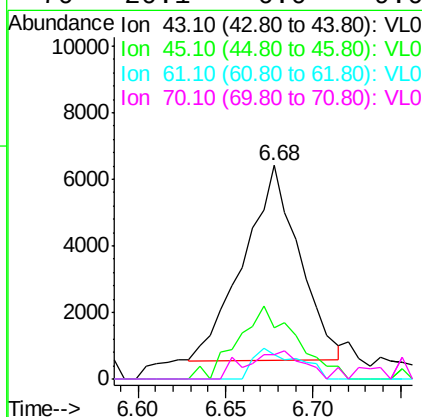
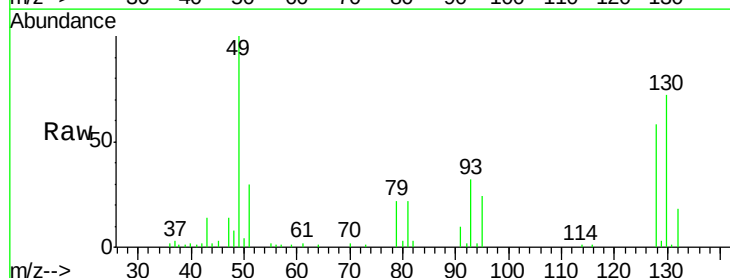
Instrument :
MSVOA_L
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SV-1DL

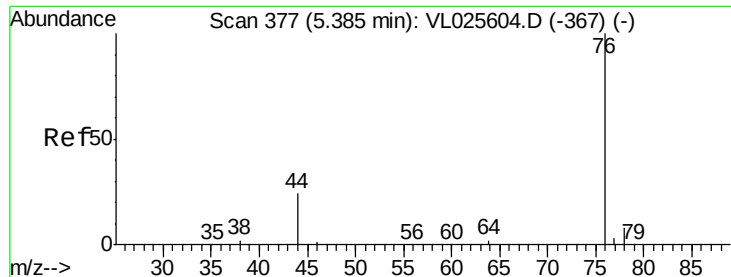
Tot Ion: 41 Resp: 9365
Ion Ratio Lower Upper
41 100
76 0.0 26.6 40.0#
39 37.5 88.2 132.4#



#25
Ethyl Acetate
Concen: 0.05 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Tgt Ion: 43 Resp: 13022
Ion Ratio Lower Upper
43 100
45 40.0 7.5 11.3#
61 12.3 6.6 10.0#
70 20.1 6.0 9.0#

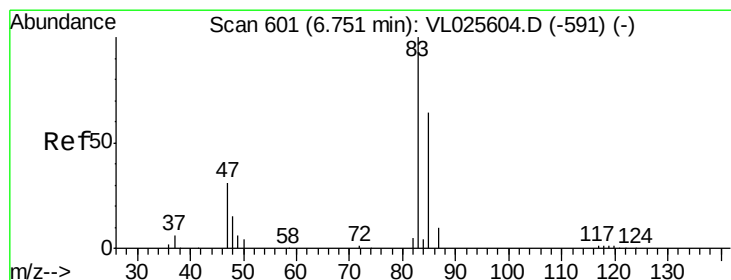
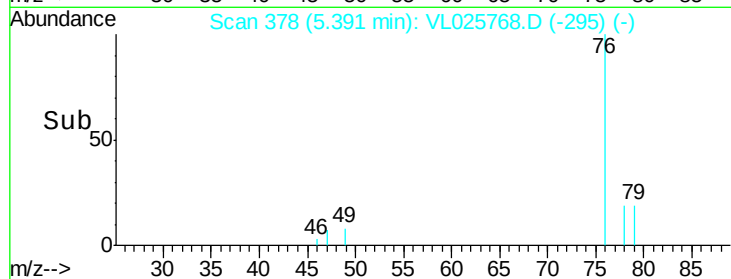
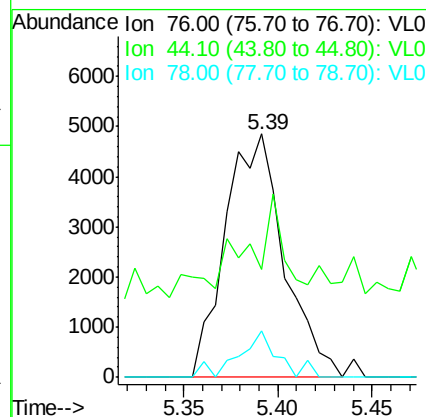
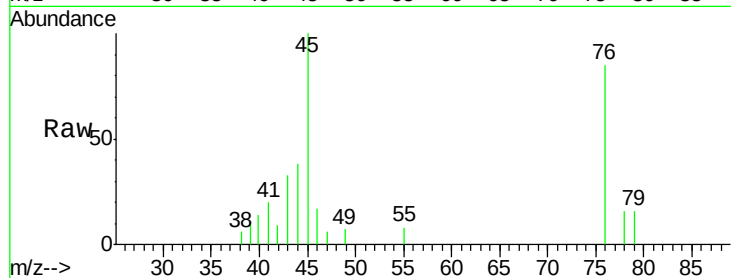




#27
Carbon Disulfide
Concen: 0.06 ppbv
RT: 5.39 min Scan# 378
Delta R.T. 0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

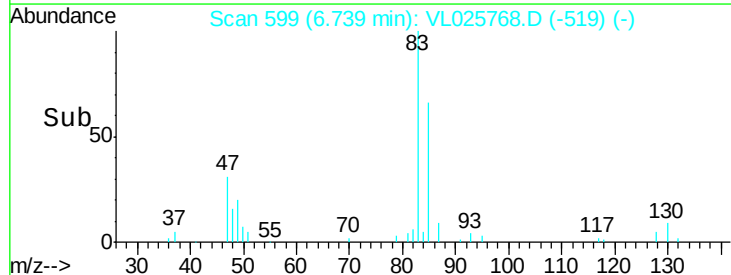
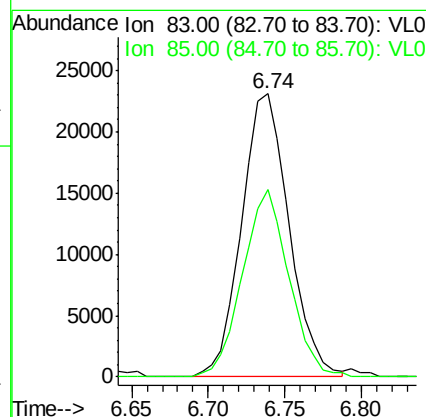
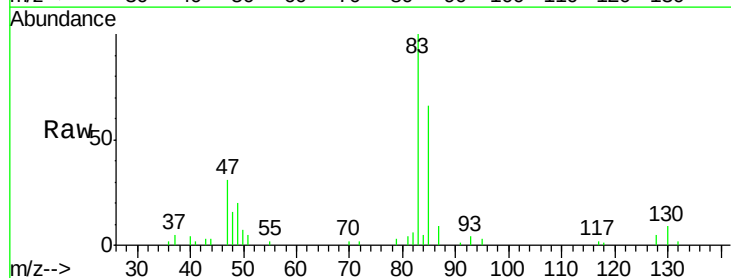
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

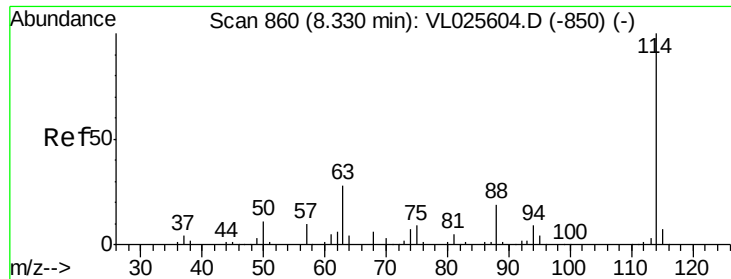
Tot Ion: 76 Resp: 10481
Ion Ratio Lower Upper
76 100
44 72.6 20.2 30.4#
78 13.0 7.4 11.2#



#29
Chloroform
Concen: 0.23 ppbv
RT: 6.74 min Scan# 599
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Tgt Ion: 83 Resp: 49864
Ion Ratio Lower Upper
83 100
85 66.2 51.6 77.4

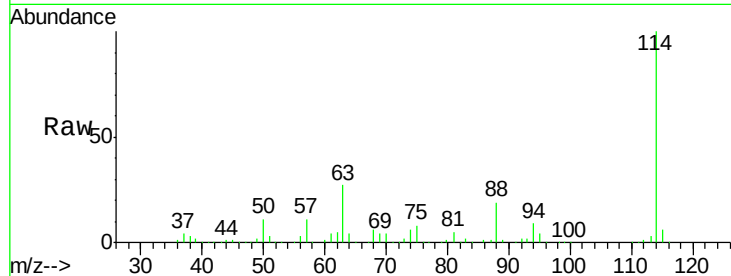




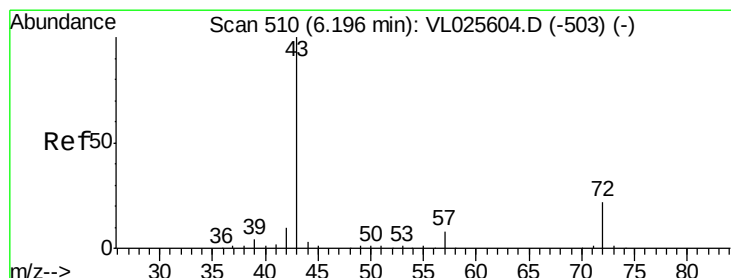
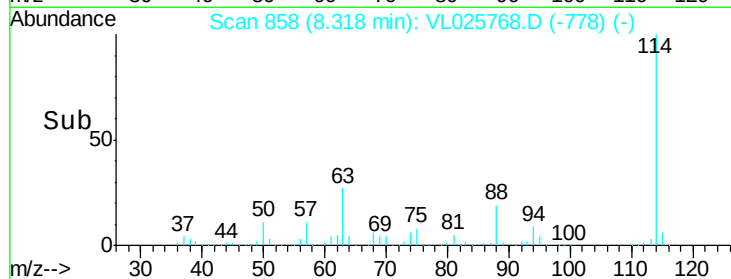
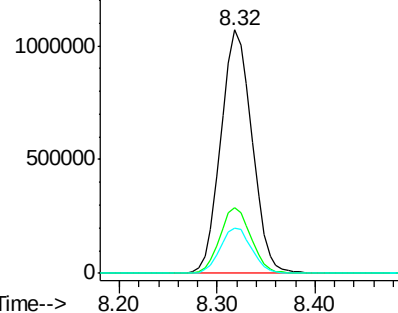
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 858
 Delta R.T. -0.01 min
 Lab File: VL025768.D
 Acq: 28 Jul 2015 1:00

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1DL

Tot Ion:114 Resp: 2381015
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.7 15.0 22.4

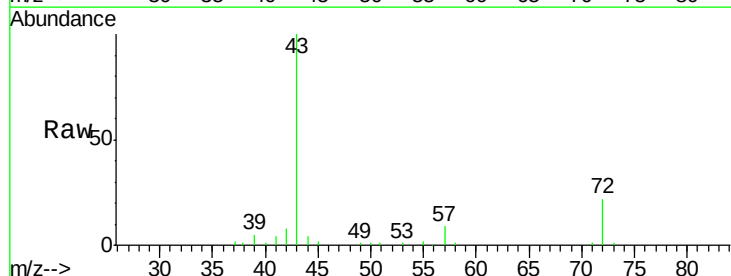


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

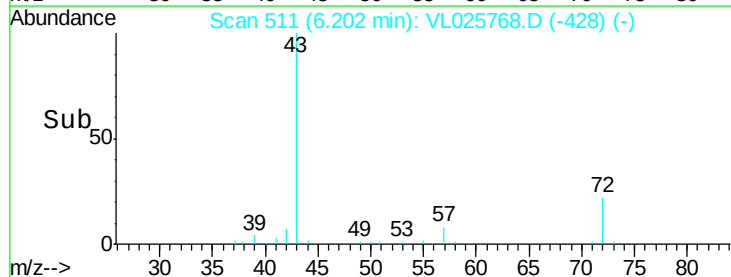
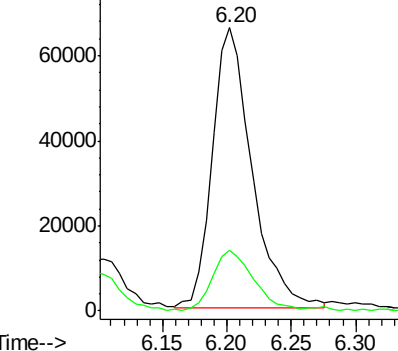


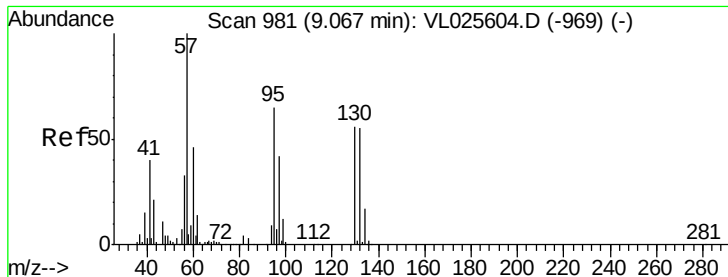
#34
 2-Butanone
 Concen: 1.04 ppbv
 RT: 6.20 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VL025768.D
 Acq: 28 Jul 2015 1:00

Tgt Ion: 43 Resp: 141065
 Ion Ratio Lower Upper
 43 100
 72 23.5 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 0.03 ppbv

RT: 9.06 min Scan# 979

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:130 Resp: 3664

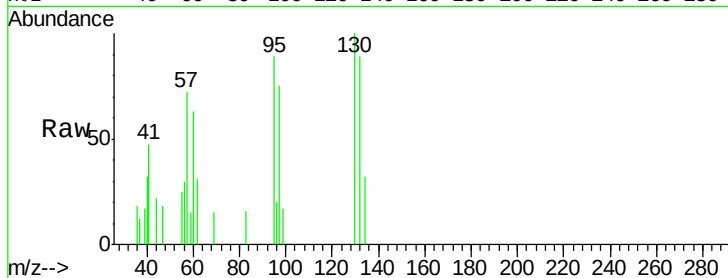
Ion Ratio Lower Upper

130 100

95 74.1 94.2 141.4#

132 76.4 78.6 118.0#

97 74.8 60.6 90.8

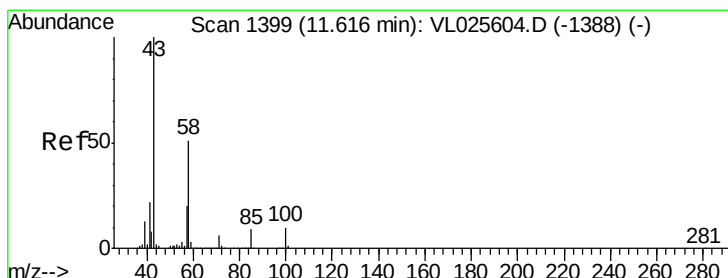
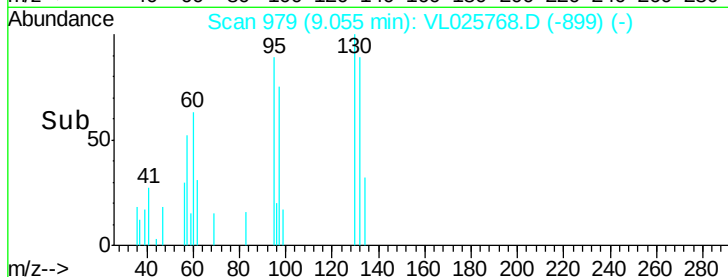
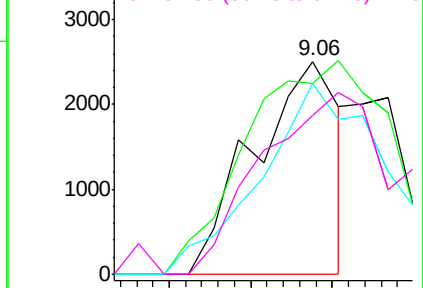


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#51

2-Hexanone

Concen: 0.06 ppbv

RT: 11.65 min Scan# 1404

Delta R.T. 0.03 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

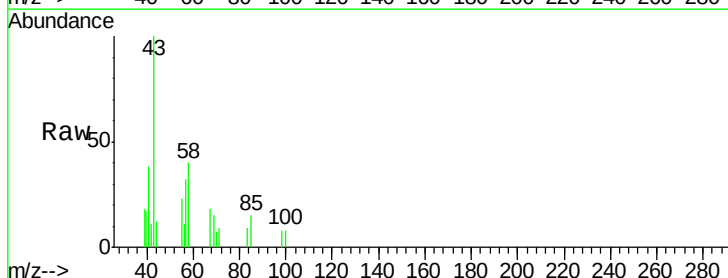
Tgt Ion: 43 Resp: 11343

Ion Ratio Lower Upper

43 100

58 43.3 39.0 58.6

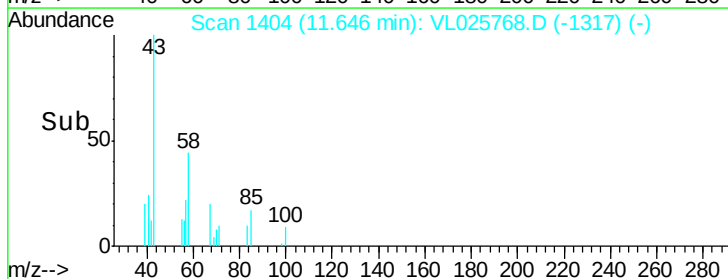
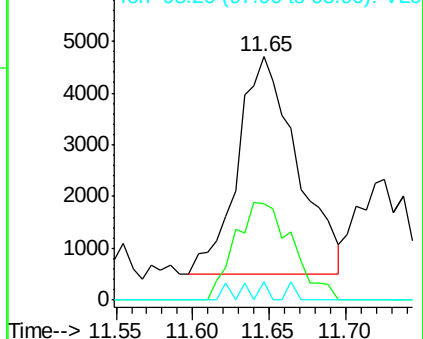
98 4.4 0.2 0.4#

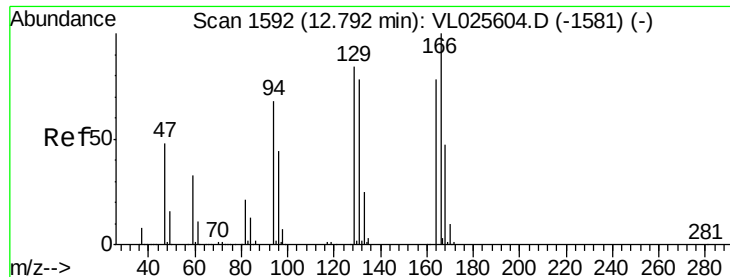


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.43 ppbv

RT: 12.79 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:164 Resp: 49519

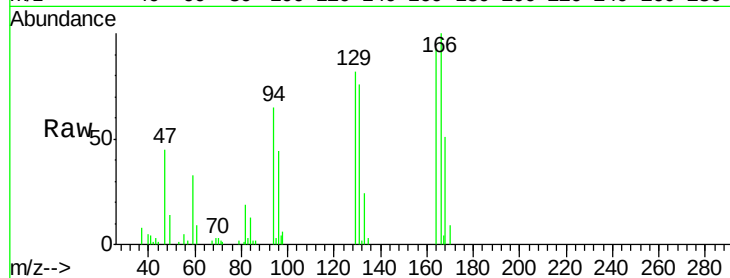
Ion Ratio Lower Upper

164 100

166 107.6 102.3 153.5

129 88.2 86.2 129.4

131 82.2 80.3 120.5

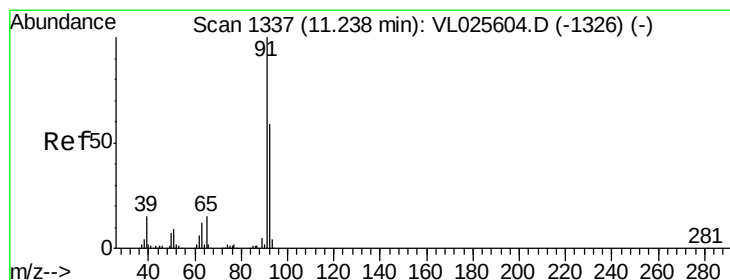
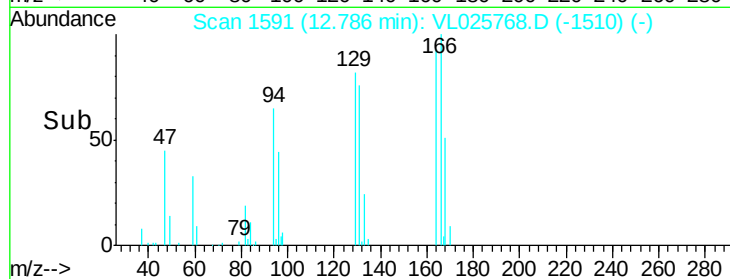
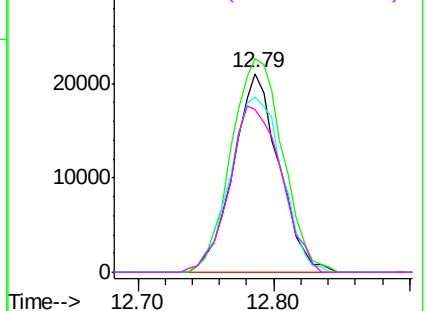


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.12 ppbv

RT: 11.23 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VL025768.D

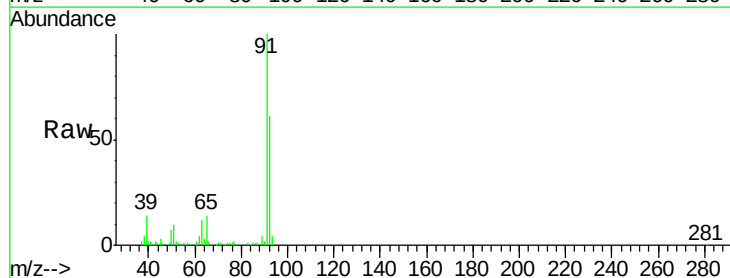
Acq: 28 Jul 2015 1:00

Tgt Ion: 91 Resp: 360453

Ion Ratio Lower Upper

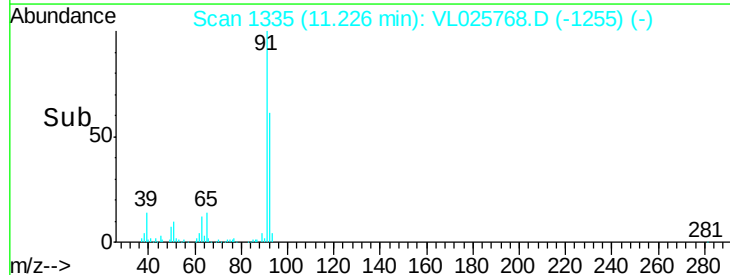
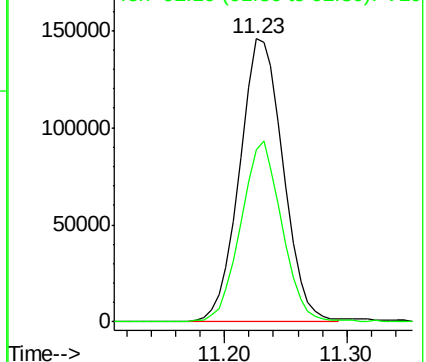
91 100

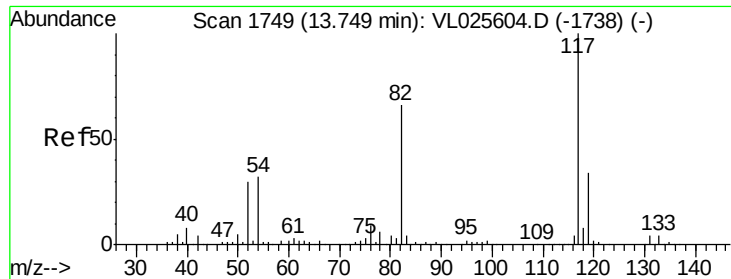
92 60.4 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

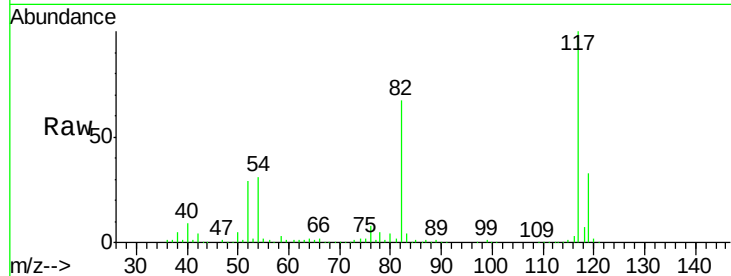




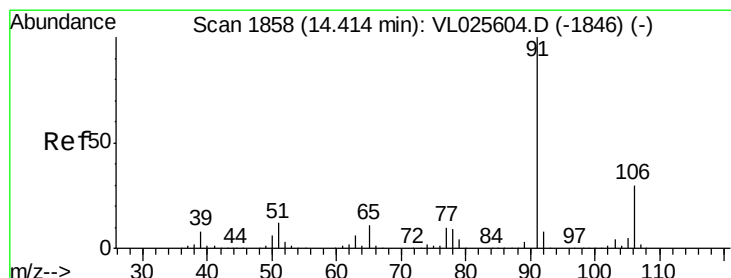
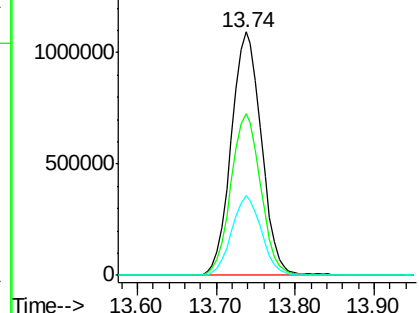
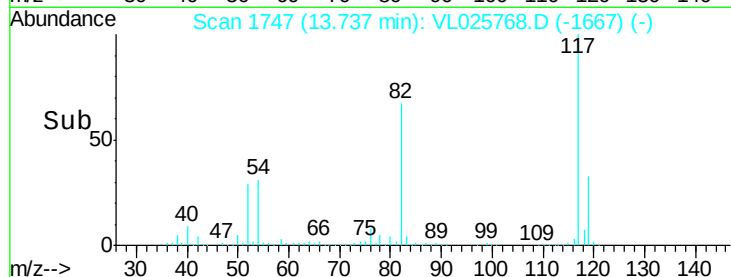
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.74 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Instrument :
MSVOA_L
ClientSampled :
SV-1DL

Tot Ion:117 Resp: 2917350
Ion Ratio Lower Upper
117 100
82 65.9 50.5 75.7
119 32.2 45.1 67.7#

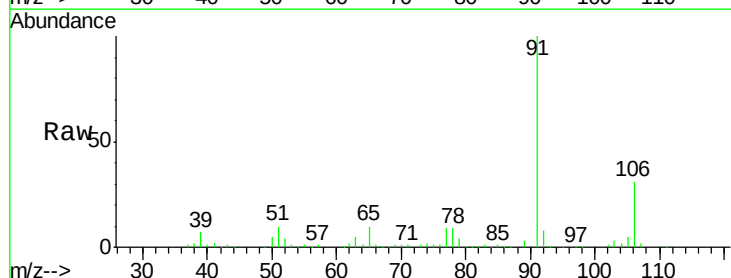


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

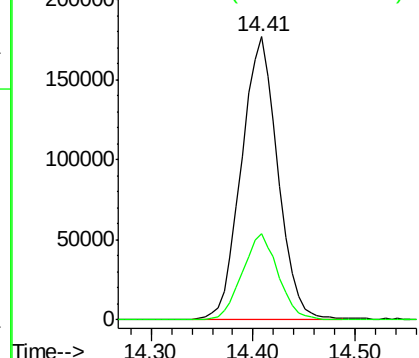
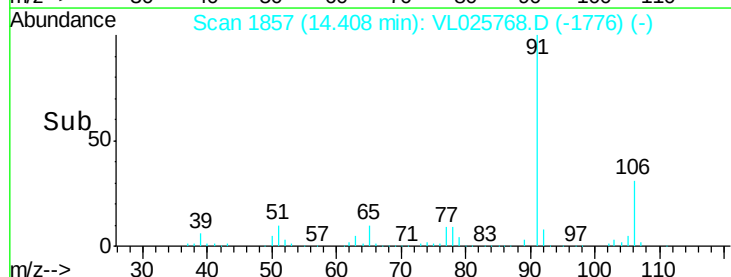


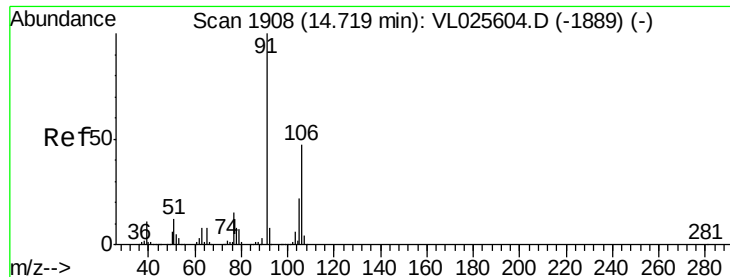
#58
Ethyl Benzene
Concen: 0.90 ppbv
RT: 14.41 min Scan# 1857
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Tgt Ion: 91 Resp: 434330
Ion Ratio Lower Upper
91 100
106 30.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

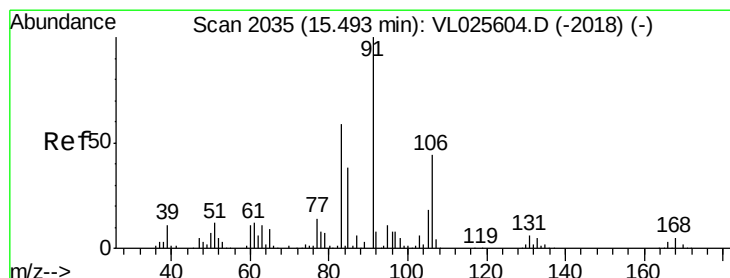
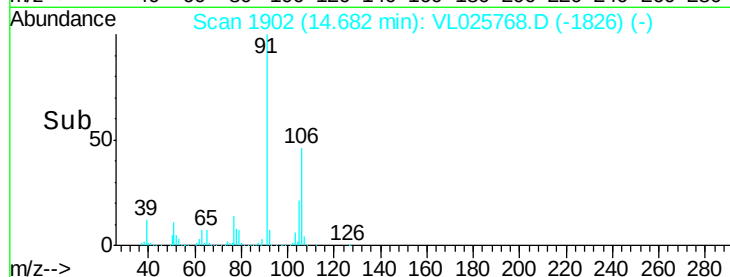
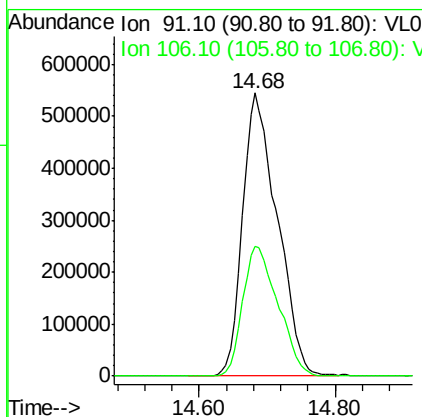
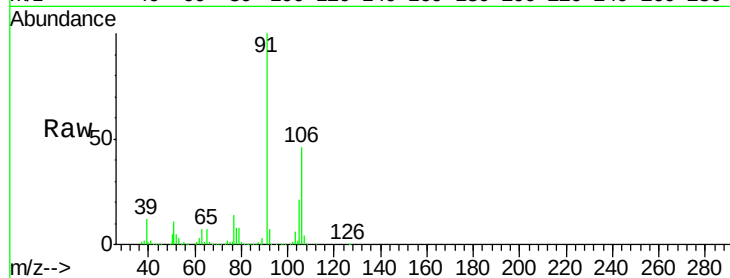




#59
m/p-Xylene
Concen: 4.55 ppbv
RT: 14.68 min Scan# 1902
Delta R.T. -0.04 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

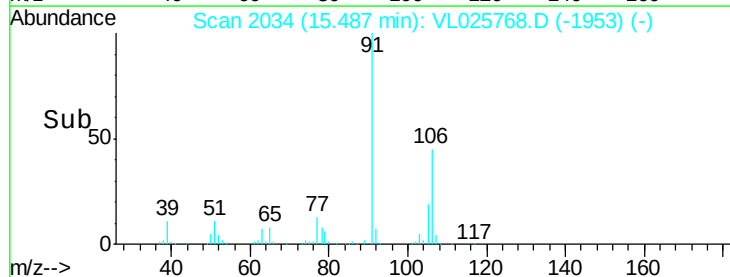
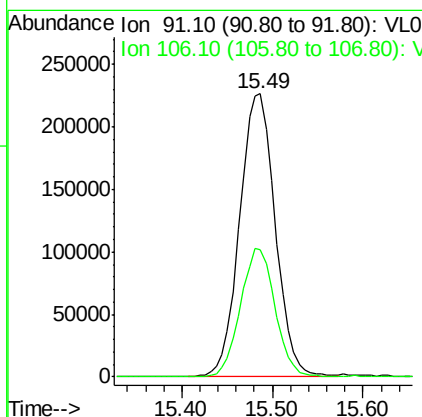
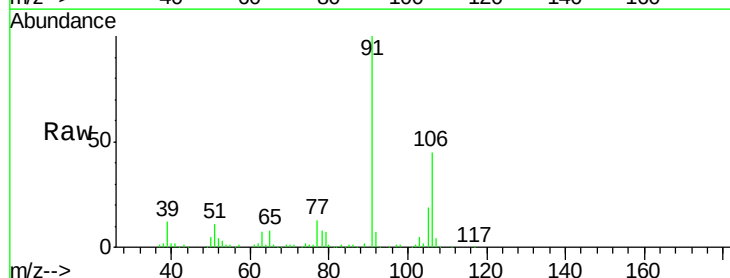
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

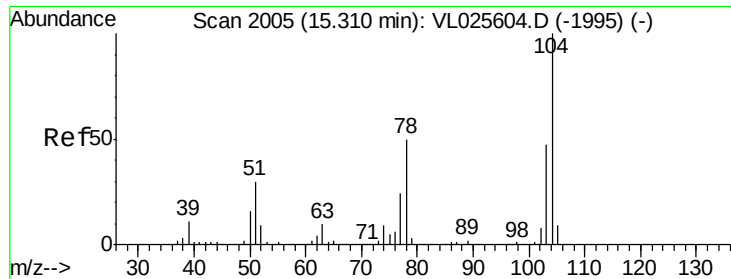
Tot Ion: 91 Resp: 1928669
Ion Ratio Lower Upper
91 100
106 47.0 37.9 56.9



#60
o-Xylene
Concen: 1.34 ppbv
RT: 15.49 min Scan# 2034
Delta R.T. -0.01 min
Lab File: VL025768.D
Acq: 28 Jul 2015 1:00

Tgt Ion: 91 Resp: 611614
Ion Ratio Lower Upper
91 100
106 44.7 22.1 66.1





#61

Stvrene

Concen: 0.05 ppbv

RT: 15.31 min Scan# 2005

Delta R.T. 0.00 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

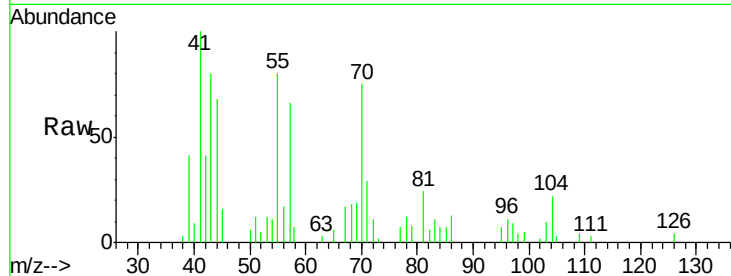
Tot Ion:104 Resp: 8076

Ion Ratio Lower Upper

104 100

78 67.7 40.2 60.4#

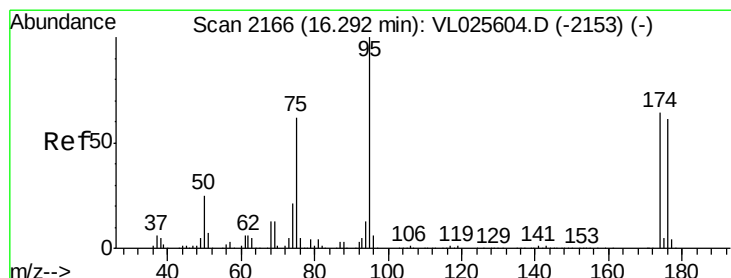
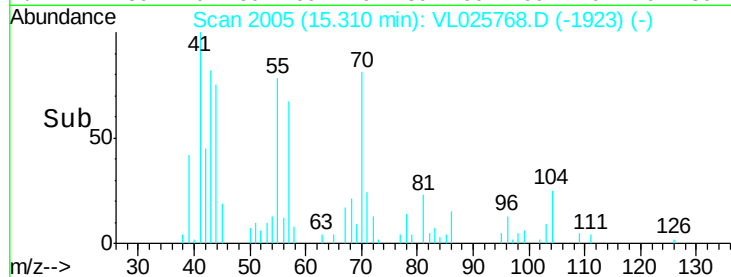
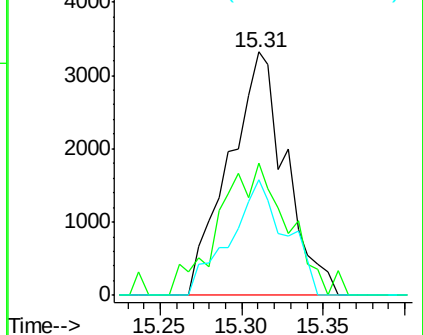
103 46.5 37.4 56.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.17 ppbv

RT: 16.28 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

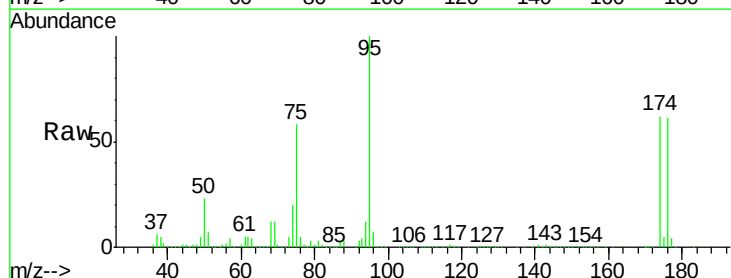
Tgt Ion: 95 Resp: 2503213

Ion Ratio Lower Upper

95 100

174 64.9 52.0 78.0

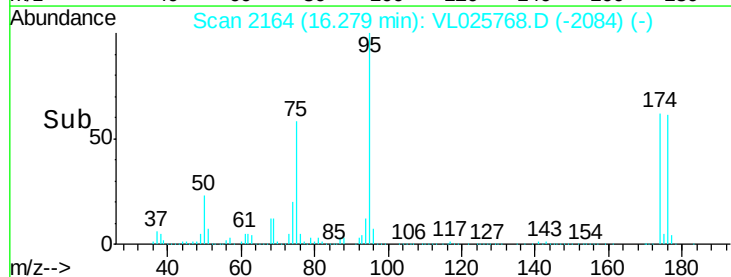
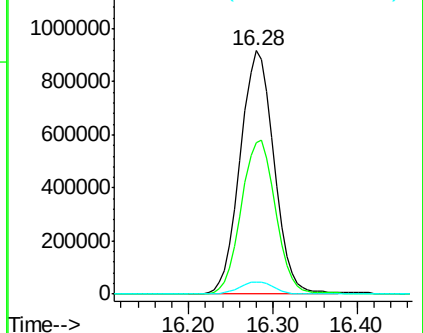
175 5.1 3.9 5.9

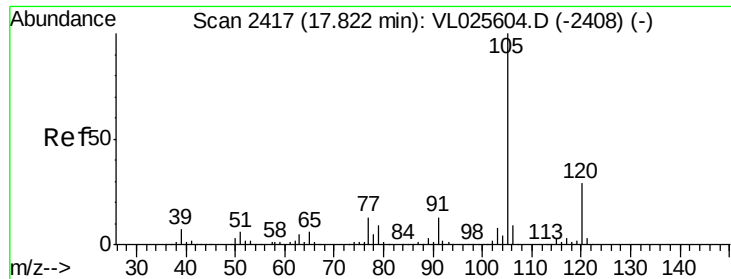


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.04 ppbv

RT: 17.82 min Scan# 2416

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:105 Resp: 20017

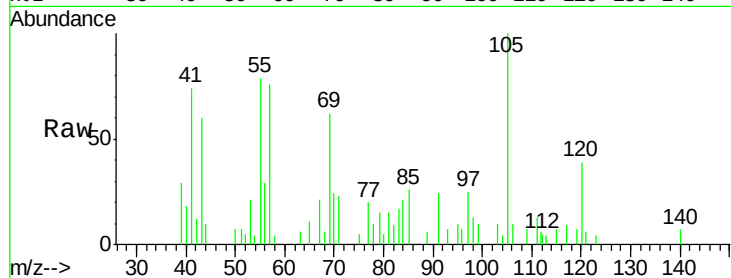
Ion Ratio Lower Upper

105 100

120 29.6 23.9 35.9

91 25.6 10.3 15.5#

77 17.8 10.9 16.3#

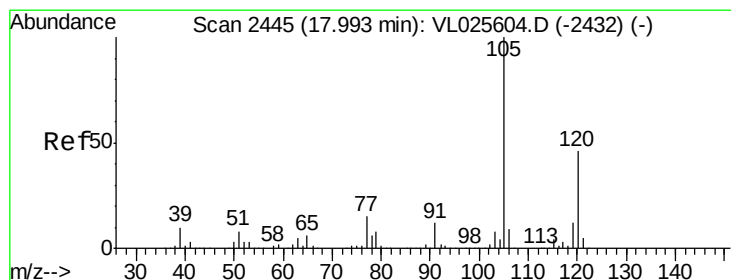
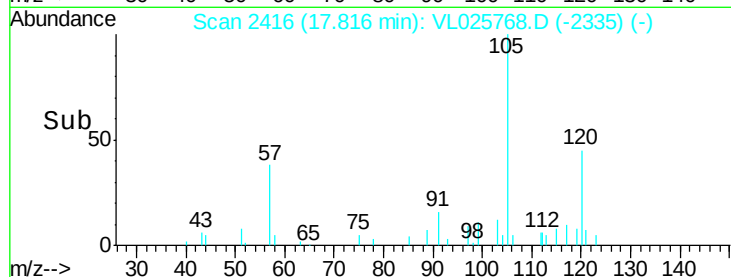
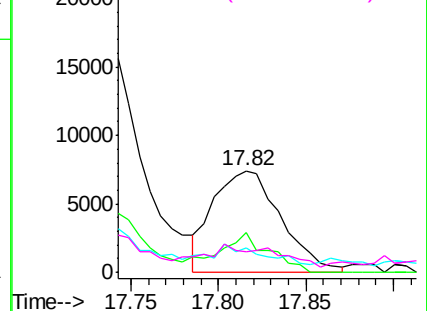


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.05 ppbv

RT: 17.98 min Scan# 2443

Delta R.T. -0.01 min

Lab File: VL025768.D

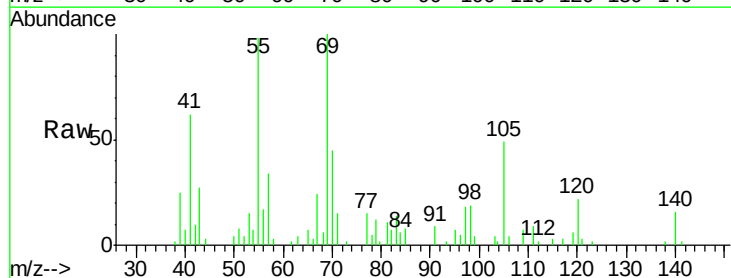
Acq: 28 Jul 2015 1:00

Tgt Ion:105 Resp: 24880

Ion Ratio Lower Upper

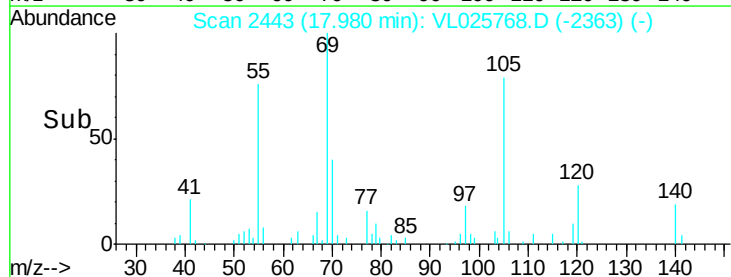
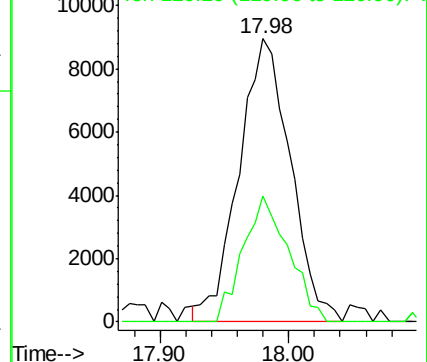
105 100

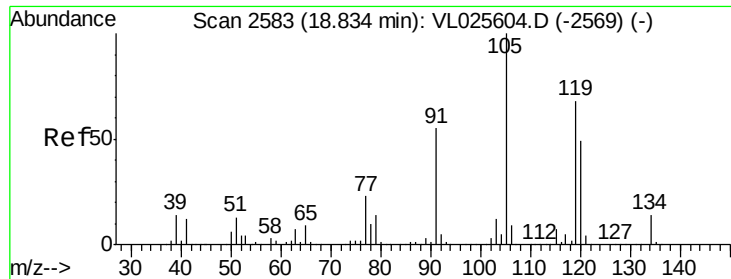
120 50.0 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.10 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

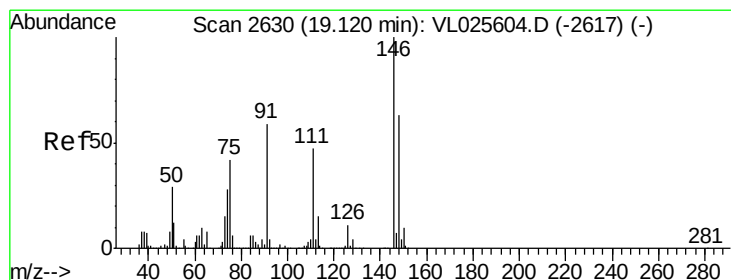
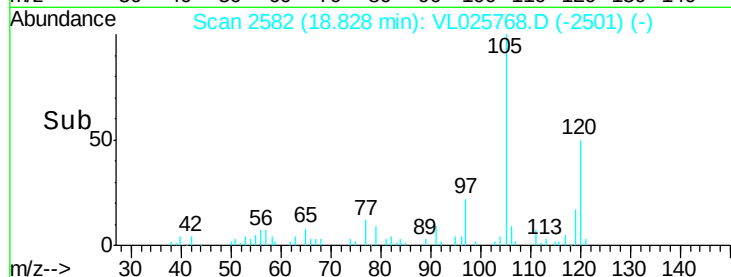
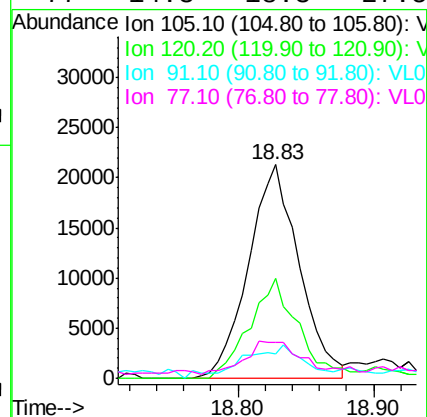
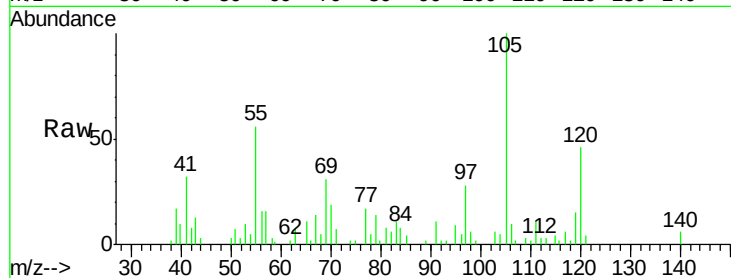
Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:	105	Resp:	55543
Ion	Ratio	Lower	Upper
105	100		
120	46.5	39.3	58.9
91	7.6	43.8	65.6#
77	14.3	18.3	27.5#



#75

1,3-Dichlorobenzene

Concen: 0.03 ppbv

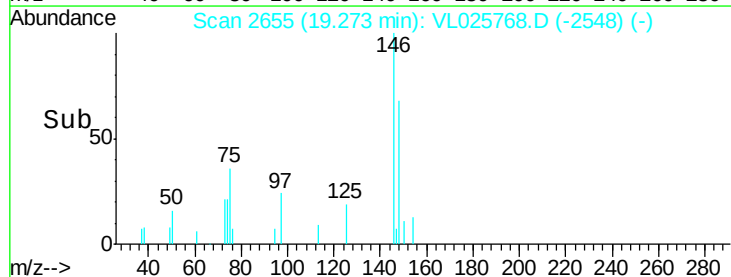
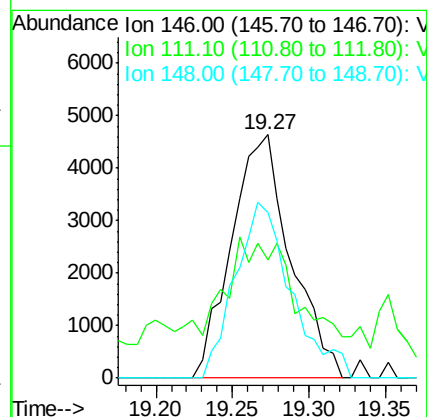
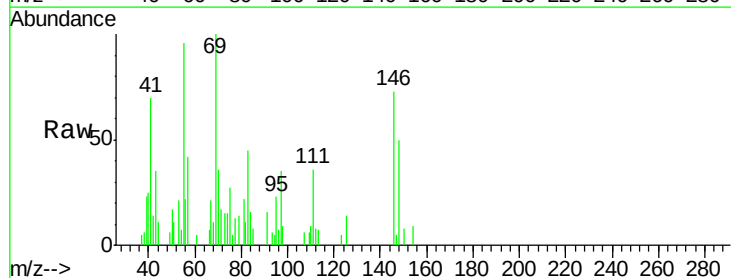
RT: 19.27 min Scan# 2655

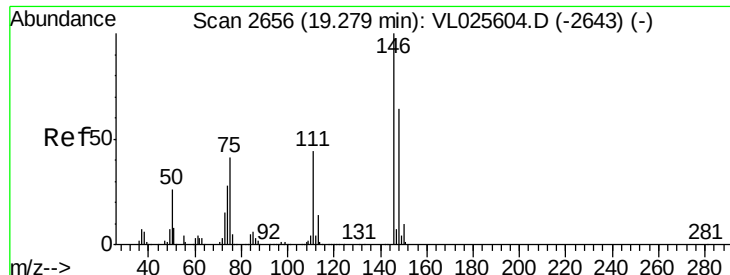
Delta R.T. 0.15 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Tgt Ion:	146	Resp:	12476
Ion	Ratio	Lower	Upper
146	100		
111	95.2	22.7	68.1#
148	68.4	31.8	95.3





#76

1,4-Dichlorobenzene

Concen: 0.03 ppbv

RT: 19.27 min Scan# 2655

Delta R.T. -0.01 min

Lab File: VL025768.D

Acq: 28 Jul 2015 1:00

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:146 Resp: 12476

Ion Ratio Lower Upper

146 100

111 103.3 22.1 66.1#

148 68.4 31.9 95.9

