

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032780.D
 Acq On : 20 Nov 2018 16:10
 Operator : SY/AP
 Sample : J5961-03 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:06:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1524637	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3858122	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3589040	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2763742	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

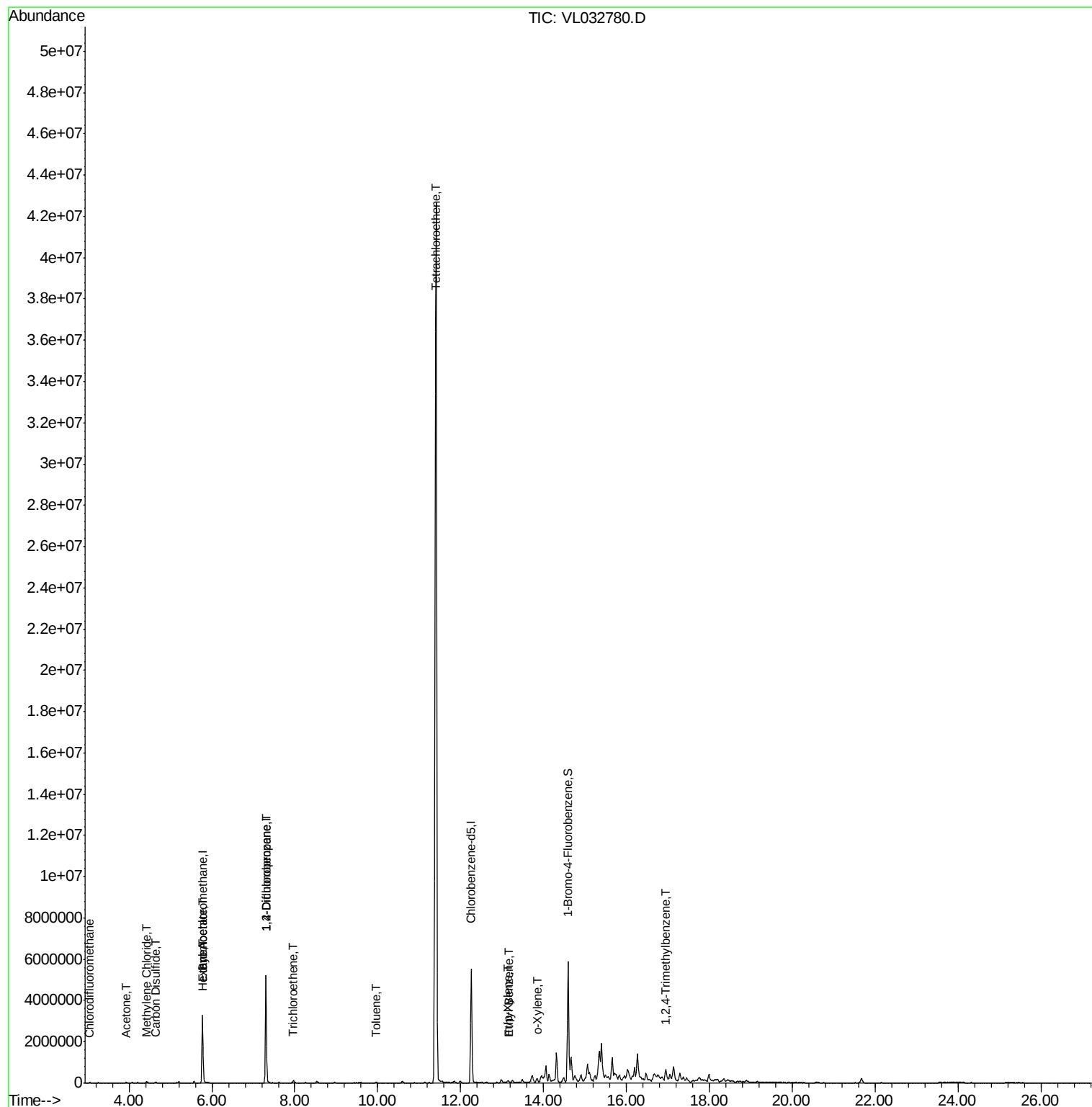
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.02	51	3673	0.030	ppbv	94
15) Acetone	3.93	43	41623	0.299	ppbv	92
20) Methylene Chloride	4.42	84	17597	0.244	ppbv	86
25) Ethyl Acetate	5.79	43	33692	0.104	ppbv #	79
26) Hexane	5.79	57	46869	0.324	ppbv #	41
27) Carbon Disulfide	4.63	76	49717	0.271	ppbv #	70
38) Trichloroethene	7.97	130	16511	0.133	ppbv	91
39) 1,2-Dichloropropane	7.30	63	915690	7.823	ppbv #	23
52) Tetrachloroethene	11.41	164	14551719	136.157	ppbv	94
53) Toluene	9.96	91	37146	0.116	ppbv	91
58) Ethyl Benzene	13.17	91	15742	0.036	ppbv	89
59) m/p-Xylene	13.14	91	51991	0.135	ppbv #	35
60) o-Xylene	13.86	91	55398	0.143	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	64915	0.146	ppbv #	66

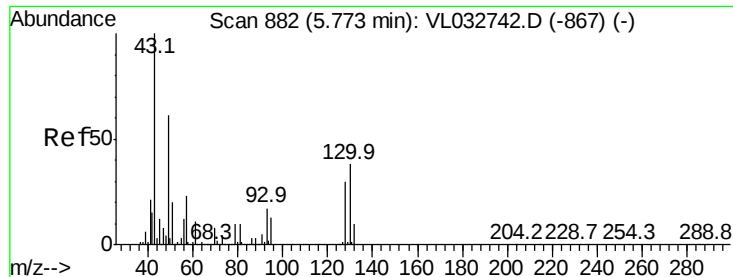
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Instrument :

MSVOA_L

ClientSampled :

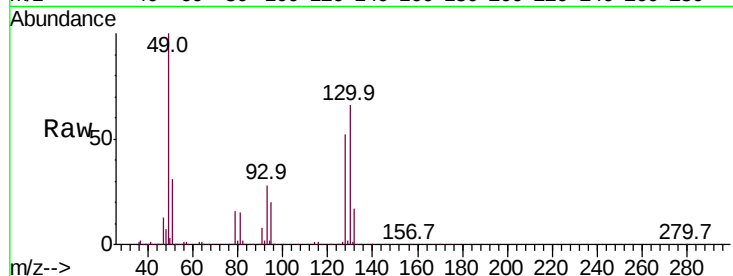
Tot Ion: 49 Resp: 1524637

Ion Ratio Lower Upper

49 100

128 52.2 24.9 74.6

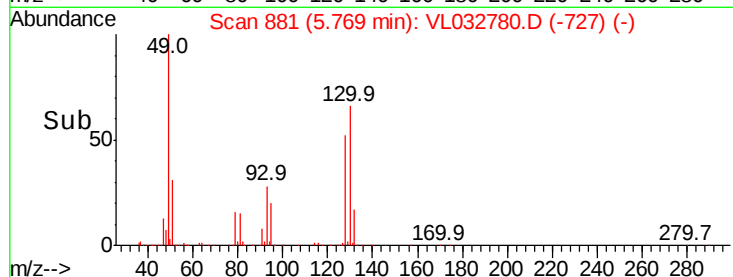
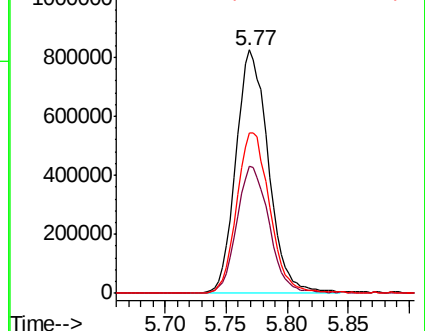
130 67.8 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.030 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032780.D

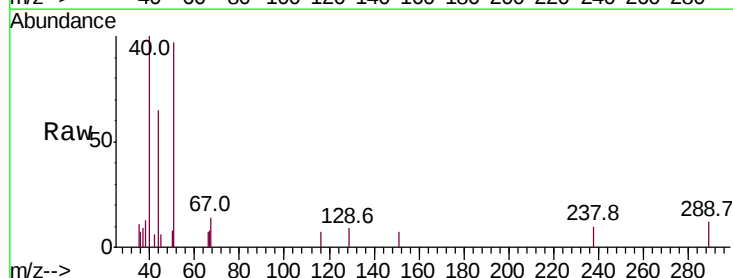
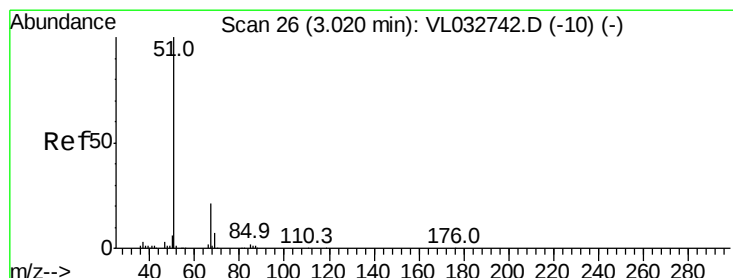
Acq: 20 Nov 2018 16:10

Tgt Ion: 51 Resp: 3673

Ion Ratio Lower Upper

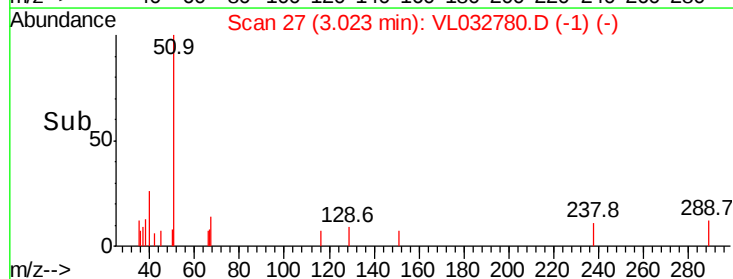
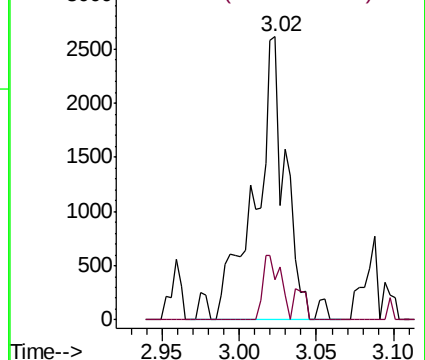
51 100

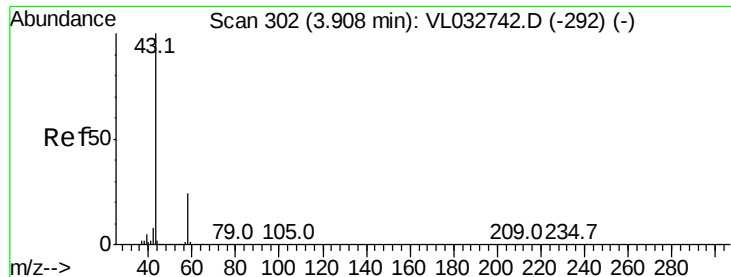
67 17.2 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#15

Acetone

Concen: 0.299 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.03 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

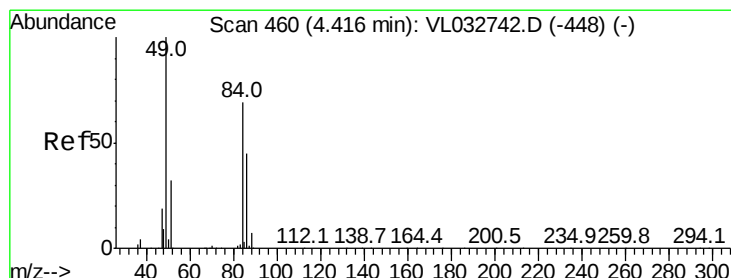
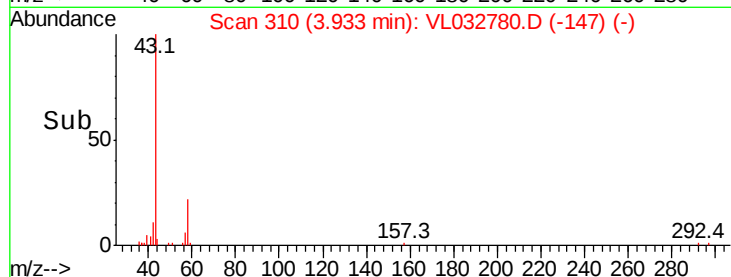
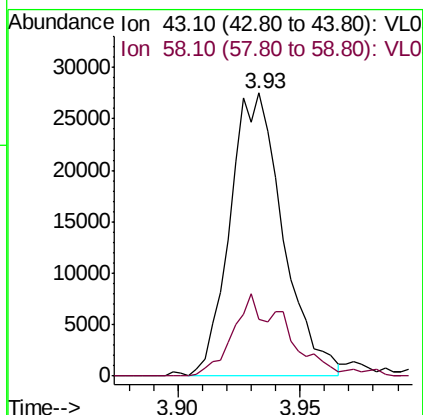
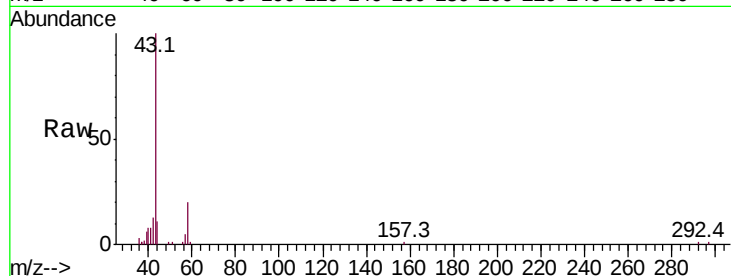
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 41623

Ion Ratio Lower Upper

43 100

58 30.4 21.1 31.7



#20

Methylene Chloride

Concen: 0.244 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Tgt Ion: 84 Resp: 17597

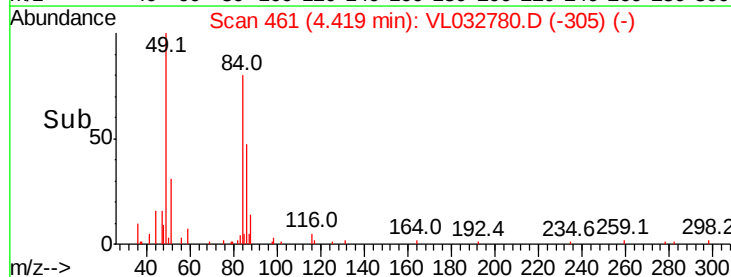
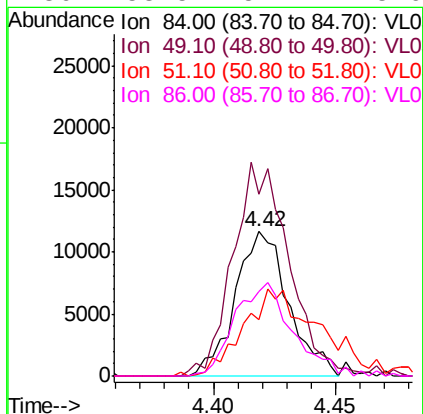
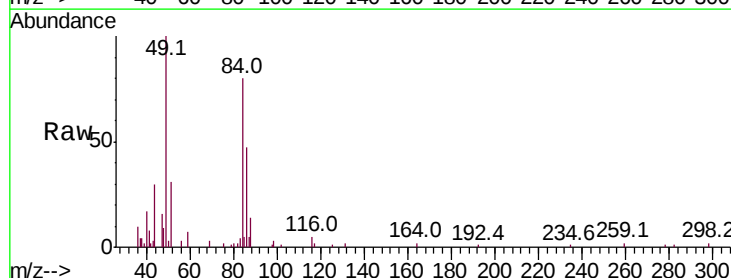
Ion Ratio Lower Upper

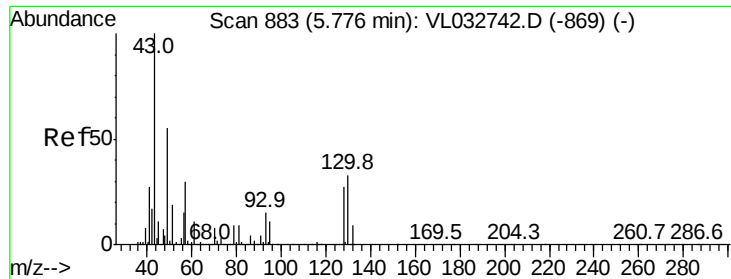
84 100

49 122.2 115.8 173.6

51 39.3 36.9 55.3

86 58.5 52.4 78.6





#25

Ethyl Acetate

Concen: 0.104 ppbv

RT: 5.79 min Scan# 887

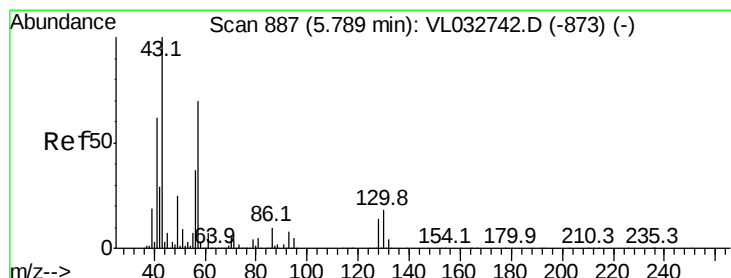
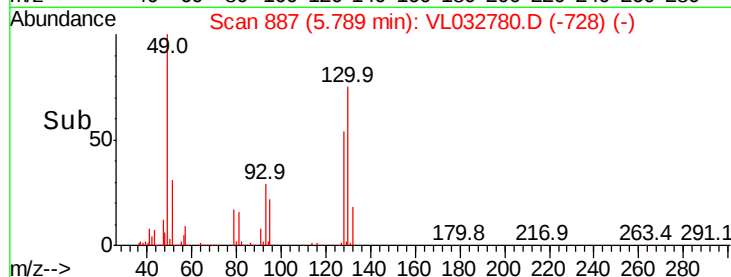
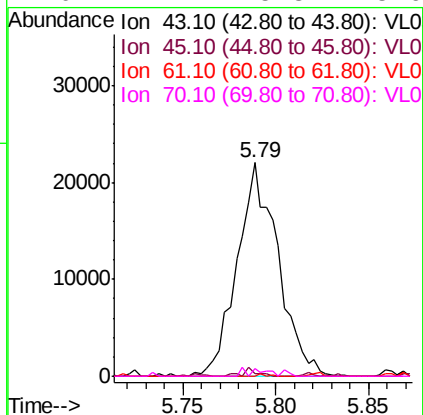
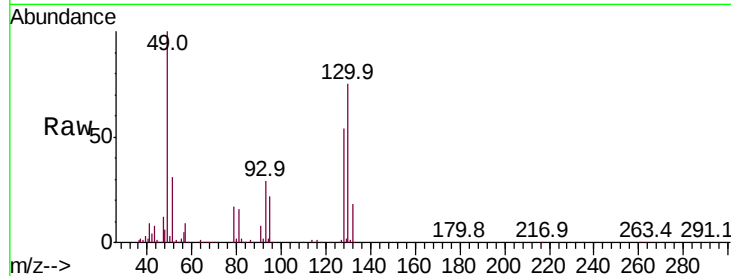
Delta R.T. 0.01 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	33692
Ion	Ratio	Lower	Upper
43	100		
45	1.8	7.9	11.9#
61	0.2	7.8	11.6#
70	2.4	5.8	8.6#



#26

Hexane

Concen: 0.324 ppbv

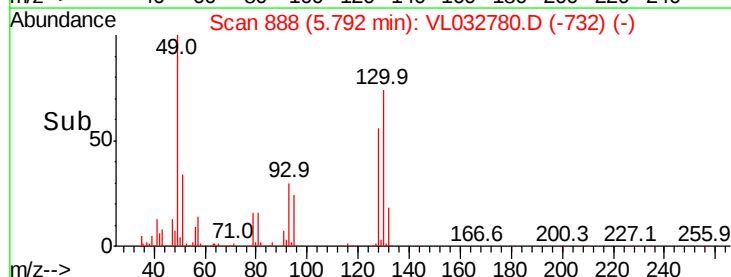
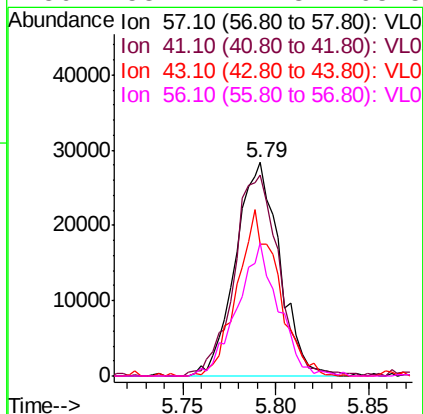
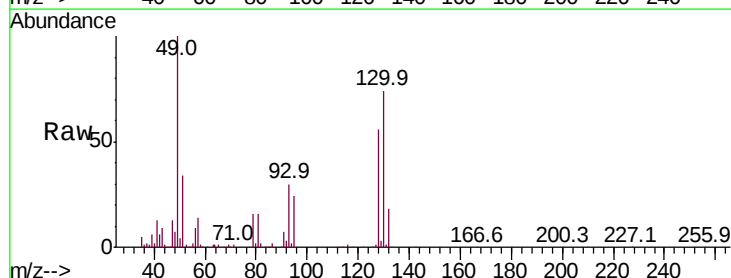
RT: 5.79 min Scan# 888

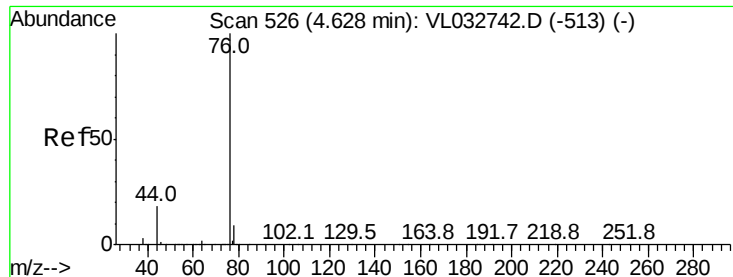
Delta R.T. 0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Tgt Ion:	57	Resp:	46869
Ion	Ratio	Lower	Upper
57	100		
41	96.0	70.3	105.5
43	71.9	174.0	261.0#
56	58.1	42.3	63.5





#27

Carbon Disulfide

Concen: 0.271 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Instrument :

MSVOA_L

ClientSampleId :

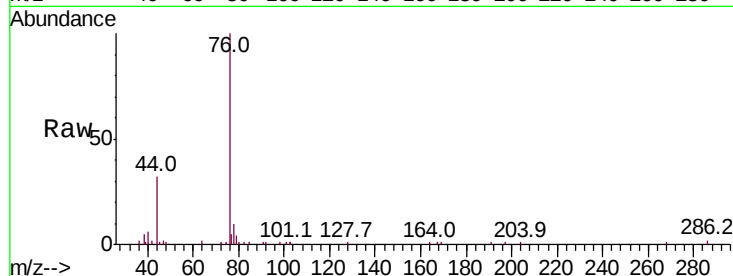
Tot Ion: 76 Resp: 49717

Ion Ratio Lower Upper

76 100

44 35.9 14.4 21.6#

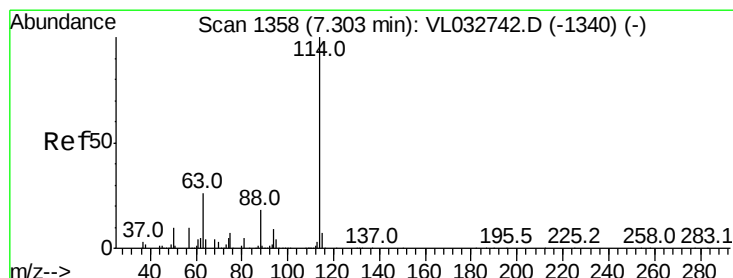
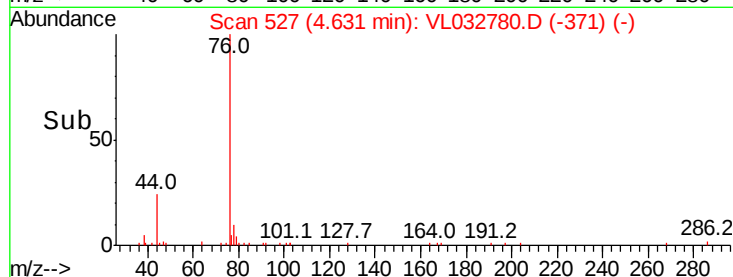
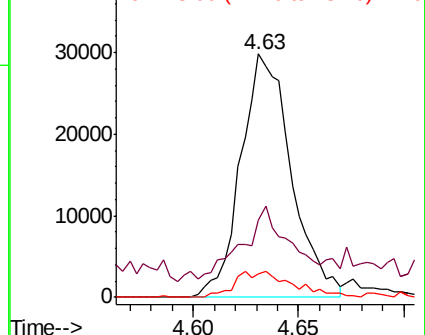
78 13.1 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

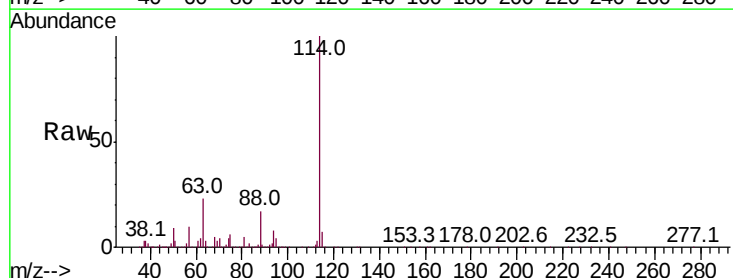
Tgt Ion: 114 Resp: 3858122

Ion Ratio Lower Upper

114 100

63 23.9 20.9 31.3

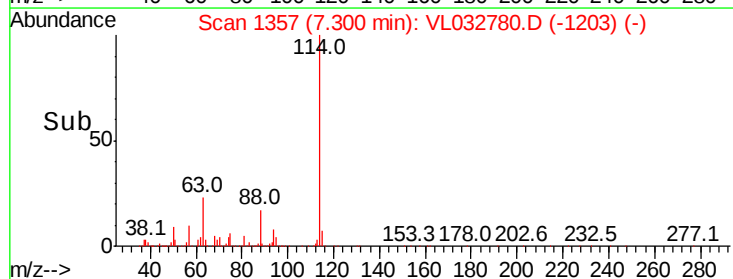
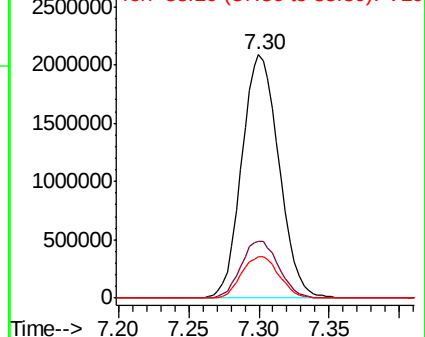
88 17.3 14.4 21.6

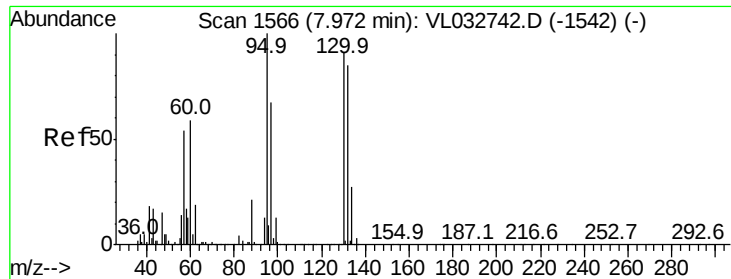


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#38

Trichloroethene

Concen: 0.133 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 16511

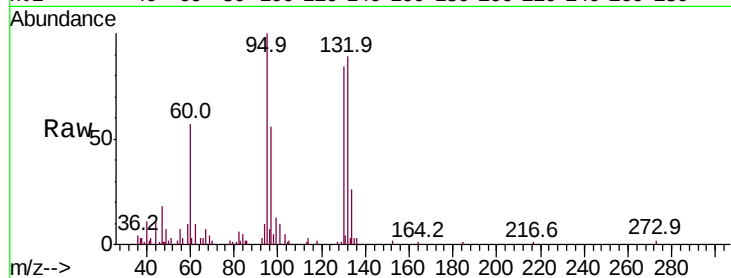
Ion Ratio Lower Upper

130 100

95 115.4 87.7 131.5

132 104.7 74.6 111.8

97 63.8 58.3 87.5

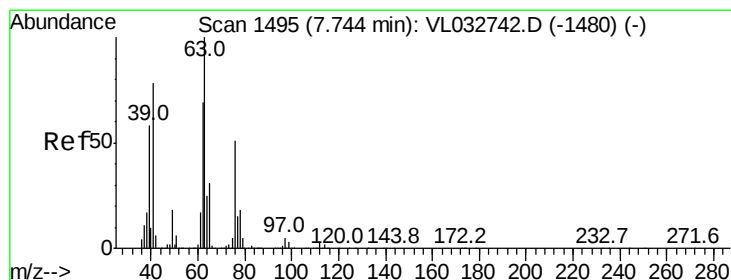
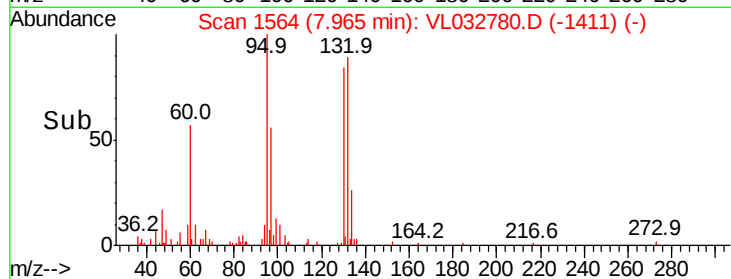
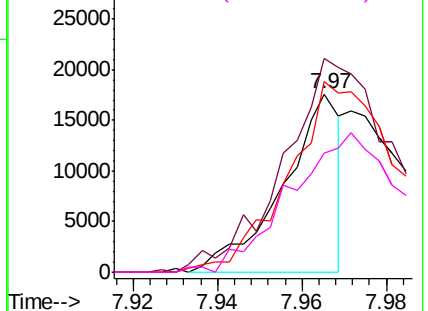


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 7.823 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

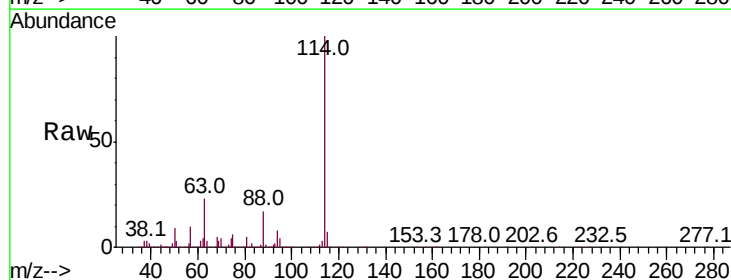
Tgt Ion: 63 Resp: 915690

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

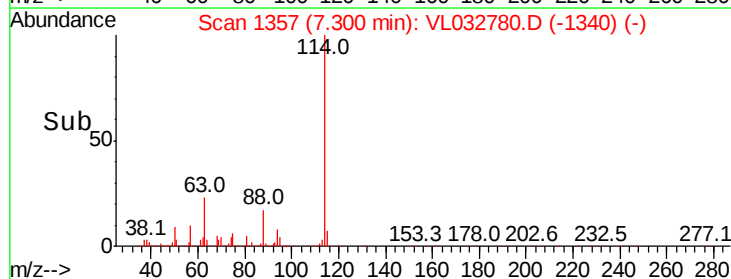
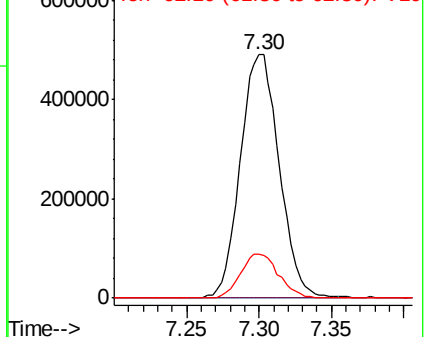
62 18.1 55.4 83.2#

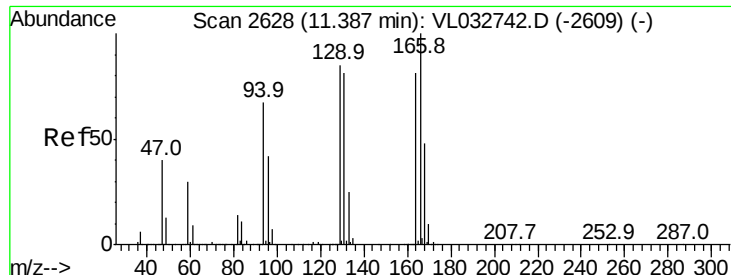


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 136.157 ppbv

RT: 11.41 min Scan# 2634

Delta R.T. 0.02 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

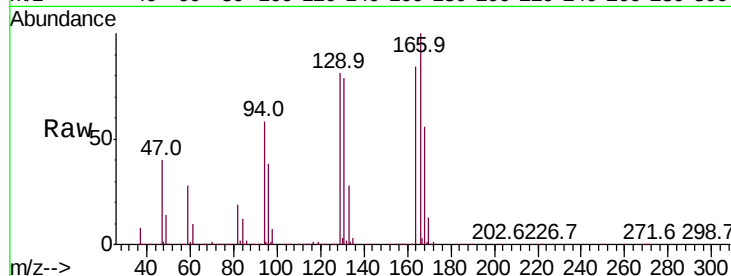
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp:14551719

Ion	Ratio	Lower	Upper
164	100		
166	118.7	99.3	148.9
129	96.8	83.9	125.9
131	93.9	80.8	121.2

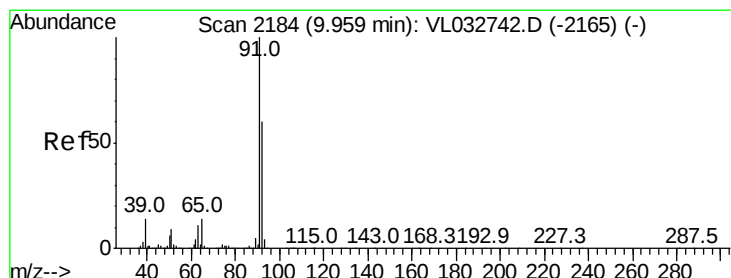
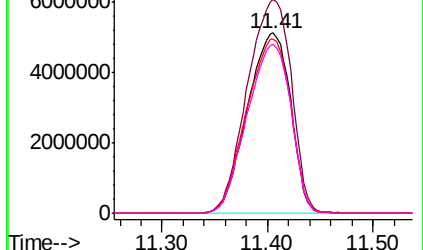
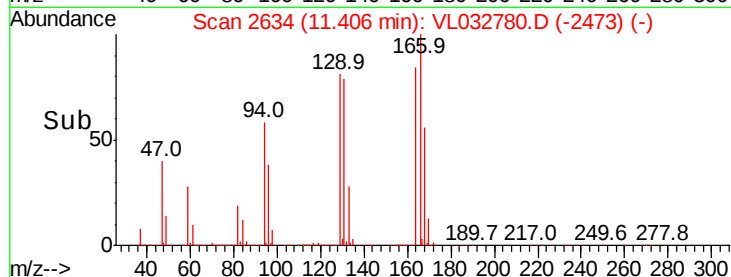


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.116 ppbv

RT: 9.96 min Scan# 2184

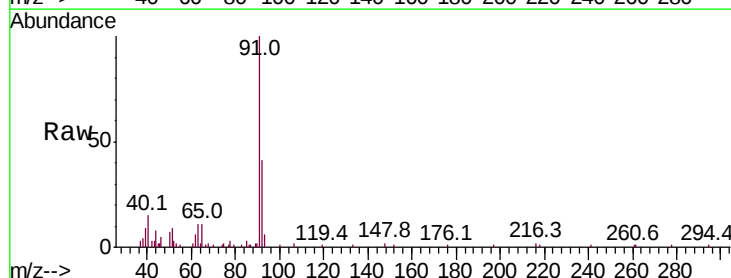
Delta R.T. -0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

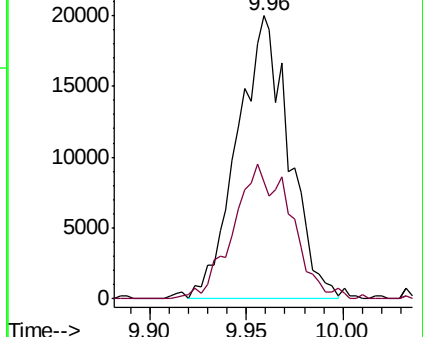
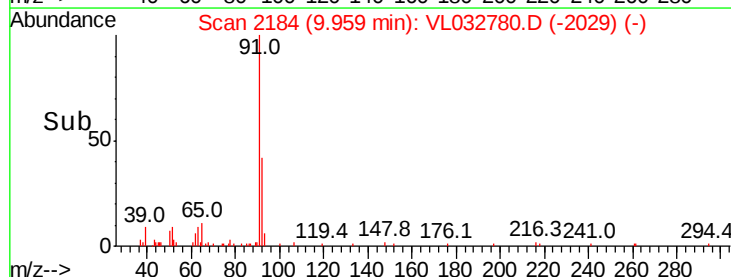
Tgt Ion: 91 Resp: 37146

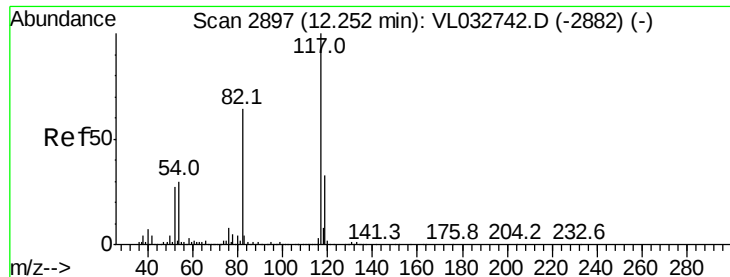
Ion	Ratio	Lower	Upper
91	100		
92	53.1	47.9	71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

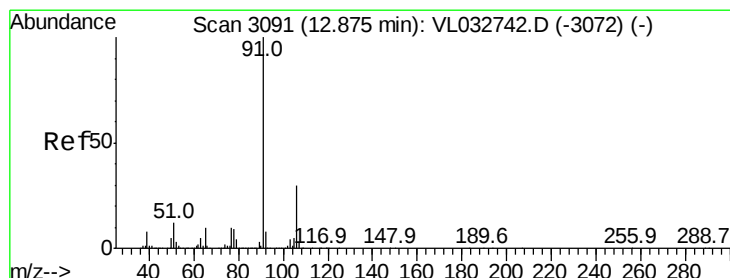
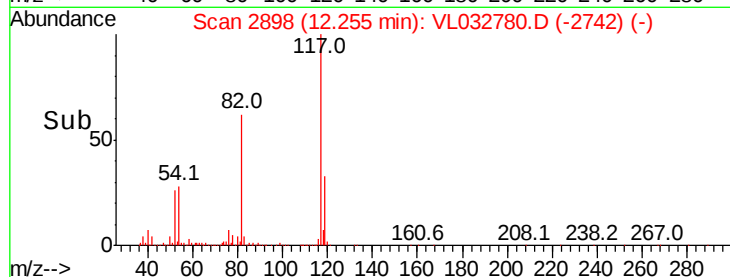
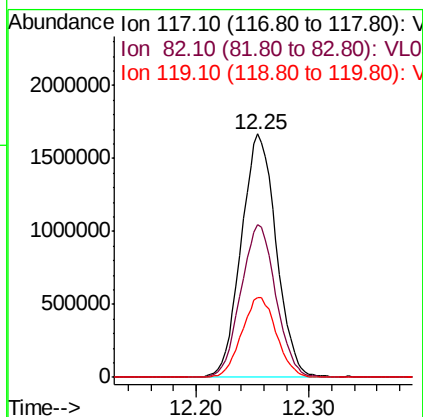
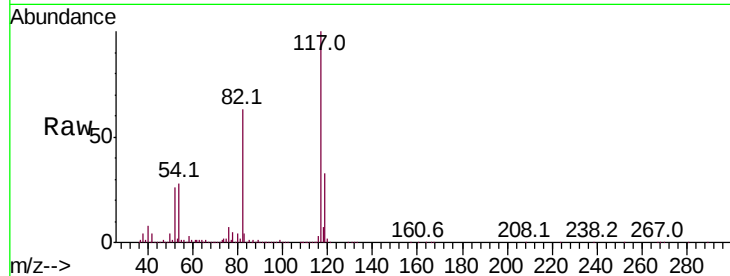




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032780.D
Acq: 20 Nov 2018 16:10

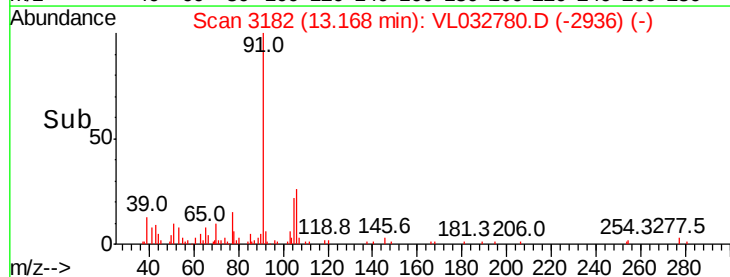
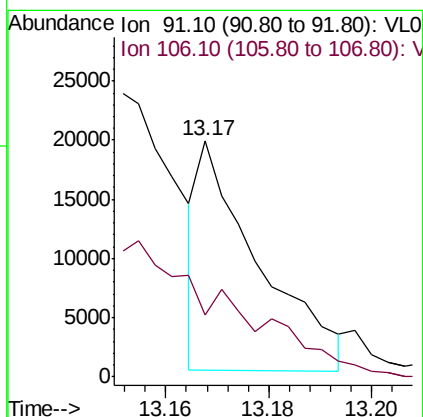
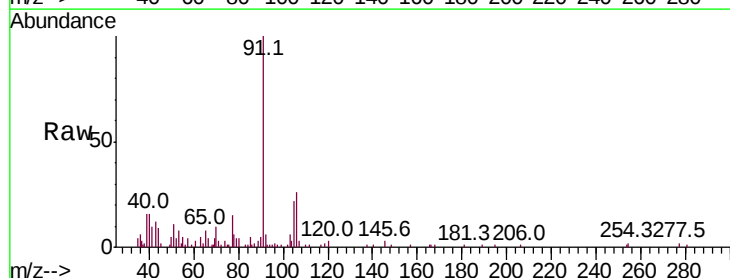
Instrument :
MSVOA_L
ClientSampleId :

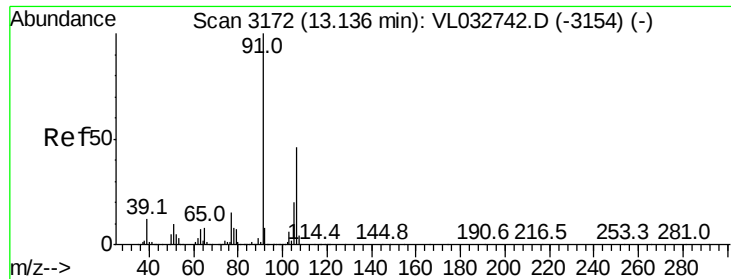
Tot Ion:117 Resp: 3589040
Ion Ratio Lower Upper
117 100
82 62.9 51.0 76.6
119 32.8 28.0 42.0



#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 13.17 min Scan# 3182
Delta R.T. 0.29 min
Lab File: VL032780.D
Acq: 20 Nov 2018 16:10

Tgt Ion: 91 Resp: 15742
Ion Ratio Lower Upper
91 100
106 23.8 23.6 35.4

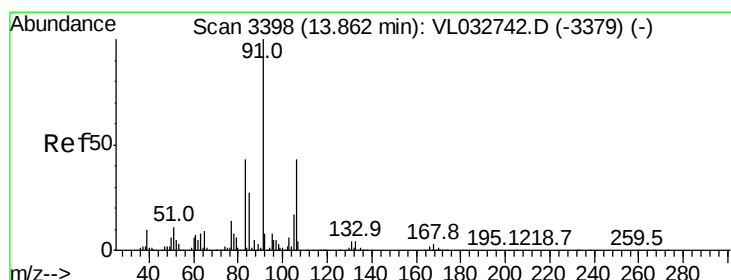
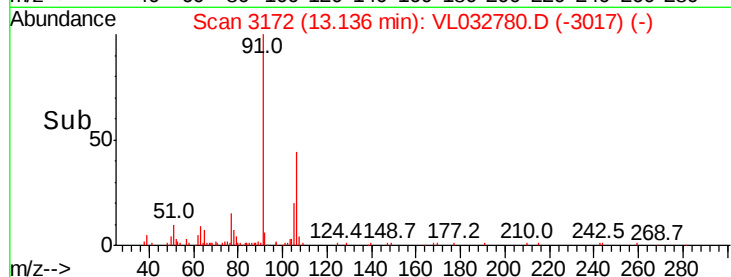
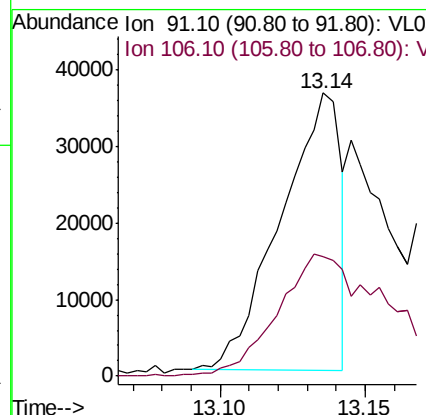
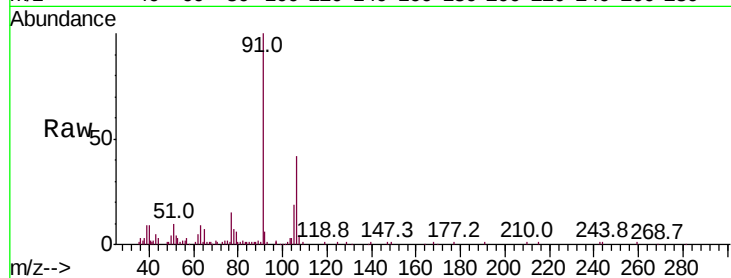




#59
m/p-Xylene
Concen: 0.135 ppbv
RT: 13.14 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VL032780.D
Acq: 20 Nov 2018 16:10

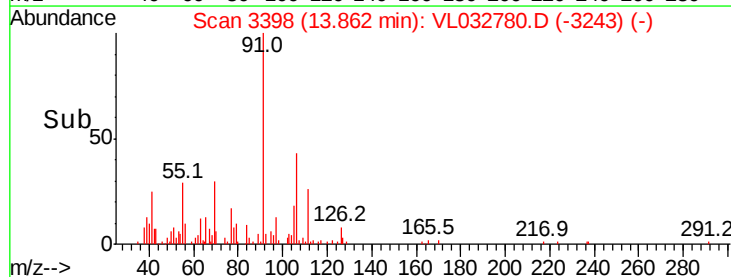
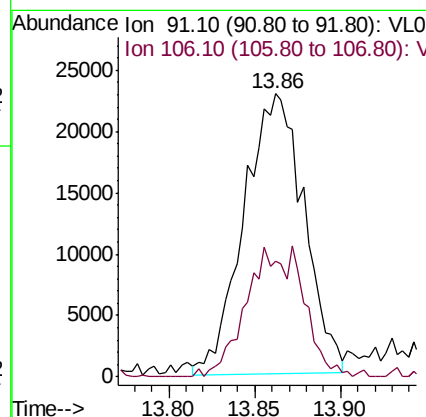
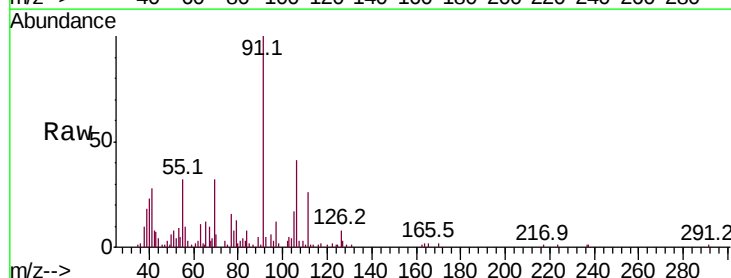
Instrument :
MSVOA_L
ClientSampleId :

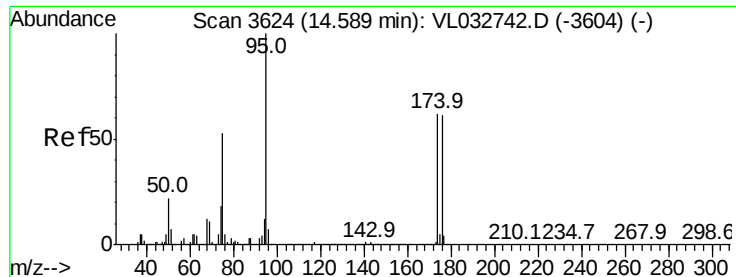
Tot Ion: 91 Resp: 51991
Ion Ratio Lower Upper
91 100
106 87.9 36.1 54.1#



#60
o-Xylene
Concen: 0.143 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL032780.D
Acq: 20 Nov 2018 16:10

Tgt Ion: 91 Resp: 55398
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.296 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Instrument :

MSVOA_L

ClientSampleId :

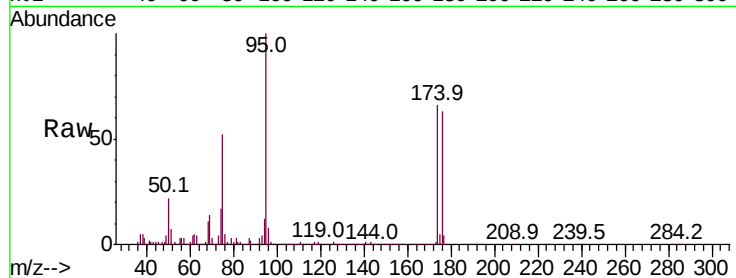
Tot Ion: 95 Resp: 2763742

Ion Ratio Lower Upper

95 100

174 67.0 50.7 76.1

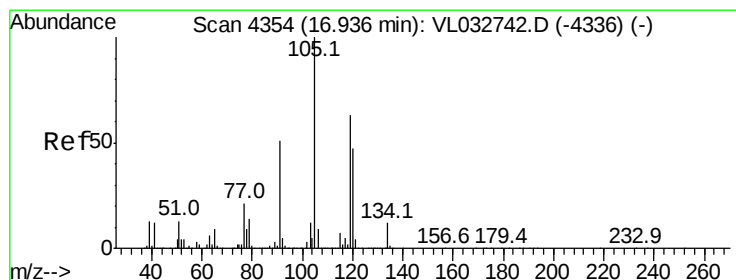
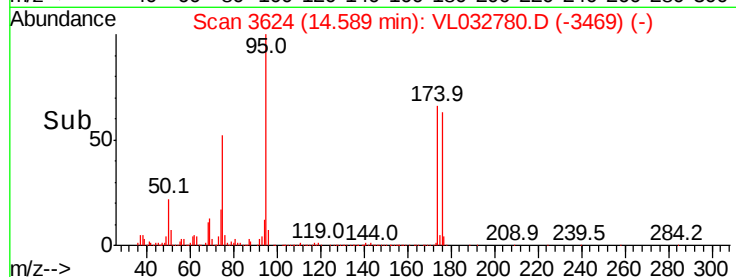
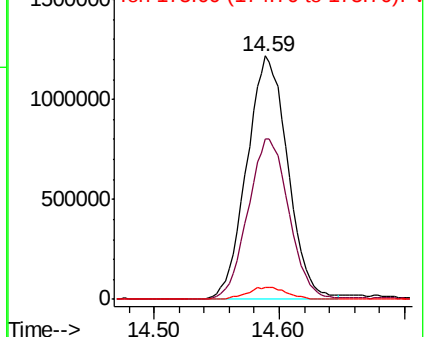
175 5.0 3.8 5.6



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



#74

1,2,4-Trimethylbenzene

Concen: 0.146 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.00 min

Lab File: VL032780.D

Acq: 20 Nov 2018 16:10

Tgt Ion: 105 Resp: 64915

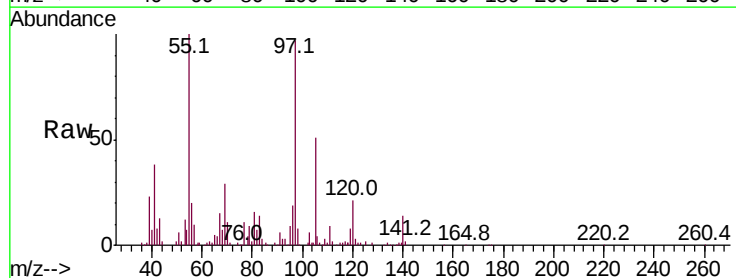
Ion Ratio Lower Upper

105 100

120 39.2 37.6 56.4

91 8.3 42.5 63.7#

77 16.7 17.4 26.2#



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

