

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032784.D
 Acq On : 20 Nov 2018 18:45
 Operator : SY/AP
 Sample : J5961-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:07:01 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	1531048	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3848909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3516607	10.00	ppbv	0.00

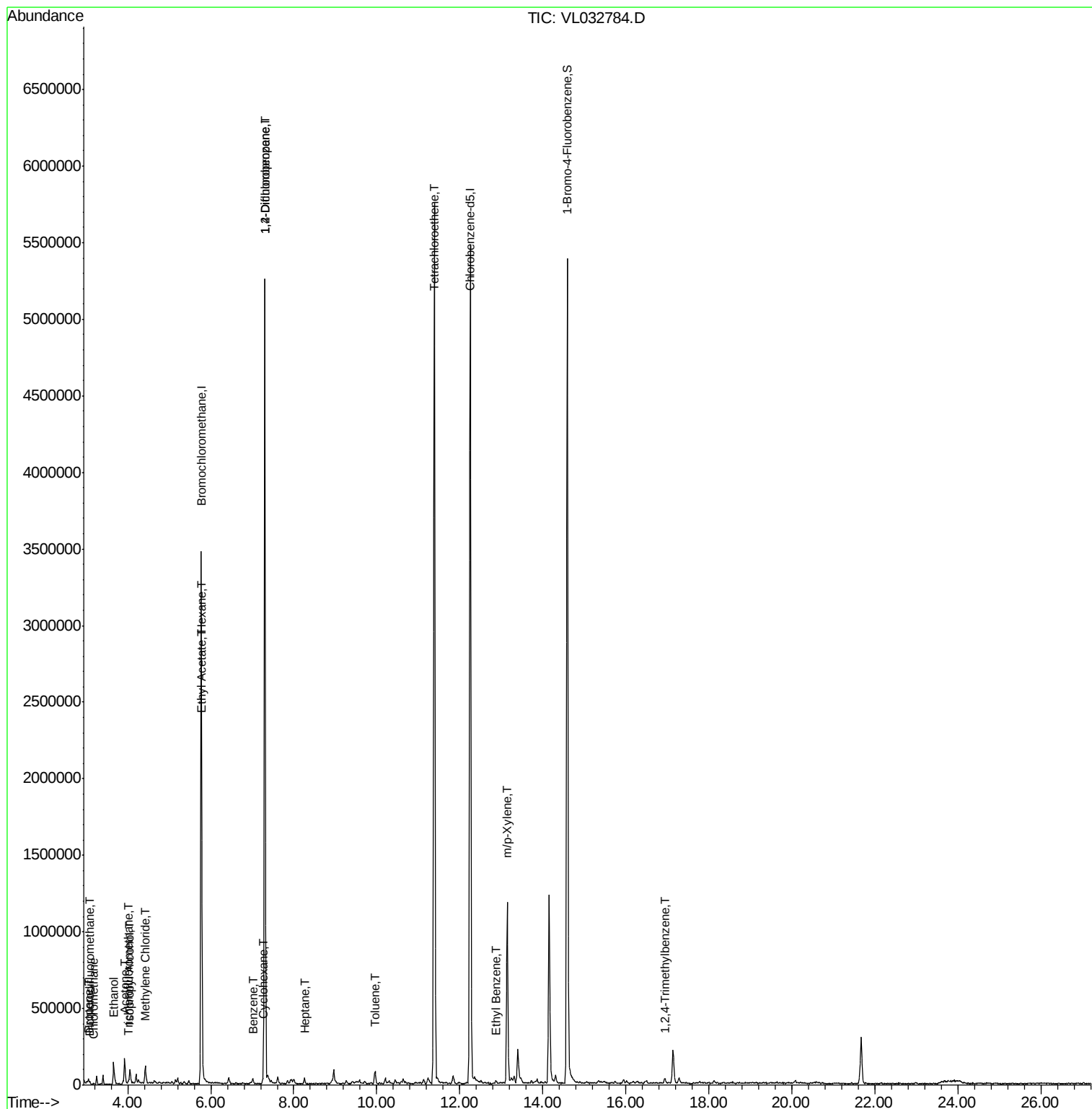
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2596721	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

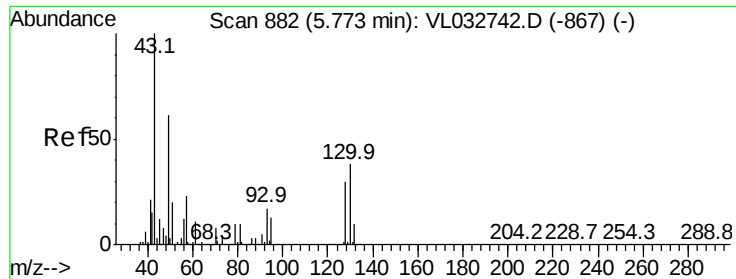
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.09	85	11075	0.050 ppbv #	84
4) Chloromethane	3.18	50	2388	0.035 ppbv	92
9) Propene	3.05	41	7922	0.163 ppbv	86
10) Heptane	8.26	43	8563	0.046 ppbv #	72
11) Trichlorofluoromethane	4.02	101	7265	0.035 ppbv #	82
13) Ethanol	3.66	45	147429	9.266 ppbv	99
15) Acetone	3.92	43	146965	1.051 ppbv	100
19) Isopropyl Alcohol	4.05	45	101027	1.085 ppbv #	93
20) Methylene Chloride	4.42	84	37169	0.513 ppbv	97
25) Ethyl Acetate	5.79	43	28395	0.087 ppbv #	90
26) Hexane	5.79	57	32469	0.224 ppbv #	46
30) Cyclohexane	7.26	84	3958	0.031 ppbv #	1
36) Benzene	7.01	78	11445	0.037 ppbv	95
39) 1,2-Dichloropropane	7.30	63	924969	7.921 ppbv #	23
52) Tetrachloroethene	11.38	164	1450323	13.603 ppbv	97
53) Toluene	9.96	91	39854	0.125 ppbv #	56
58) Ethyl Benzene	12.87	91	15354	0.036 ppbv	98
59) m/p-Xylene	13.13	91	28677	0.076 ppbv #	31
74) 1,2,4-Trimethylbenzene	16.94	105	15176	0.035 ppbv #	70

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

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Quant Time: Nov 21 04:07:01 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :
MSVOA_L
ClientSampled :

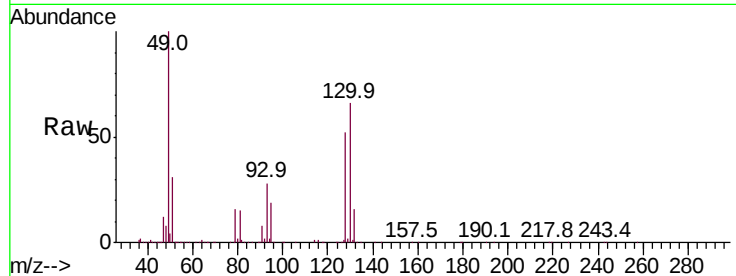
Tot Ion: 49 Resp: 1531048

Ion Ratio Lower Upper

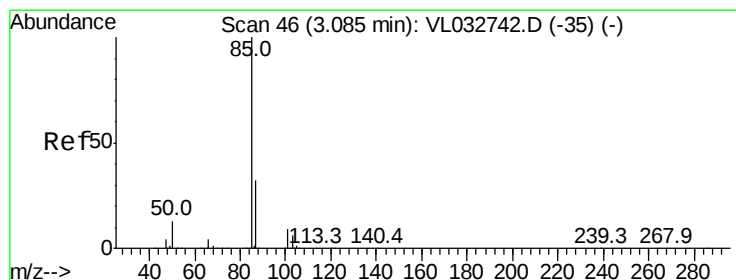
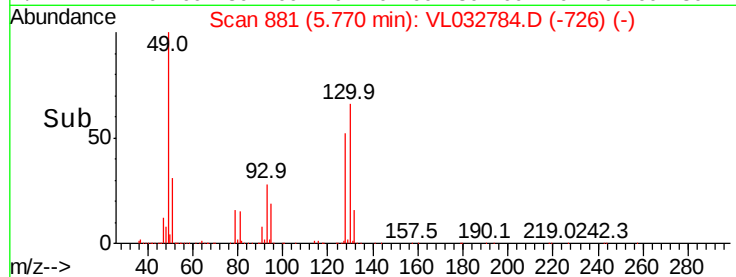
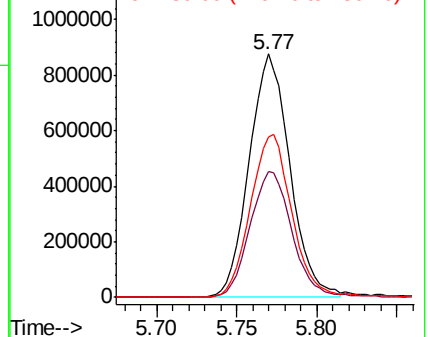
49 100

128 54.0 24.9 74.6

130 68.8 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



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032784.D

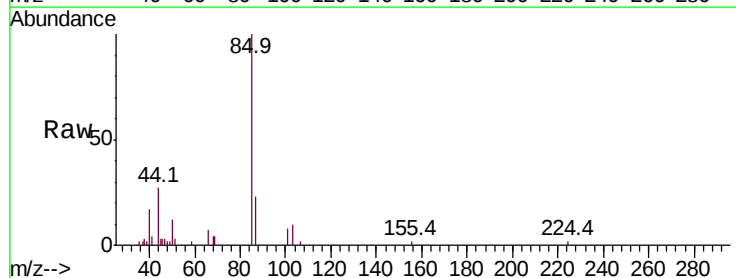
Acq: 20 Nov 2018 18:45

Tgt Ion: 85 Resp: 11075

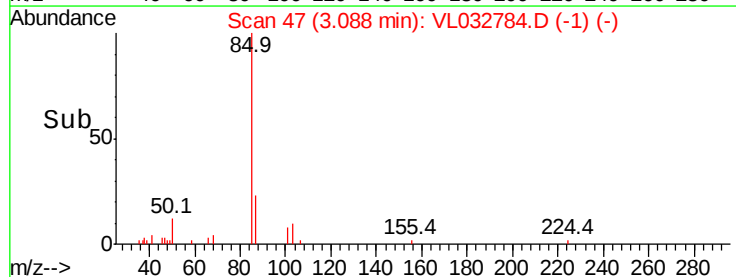
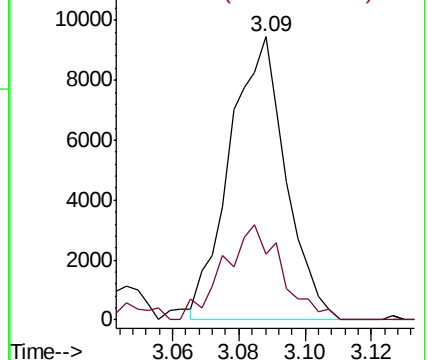
Ion Ratio Lower Upper

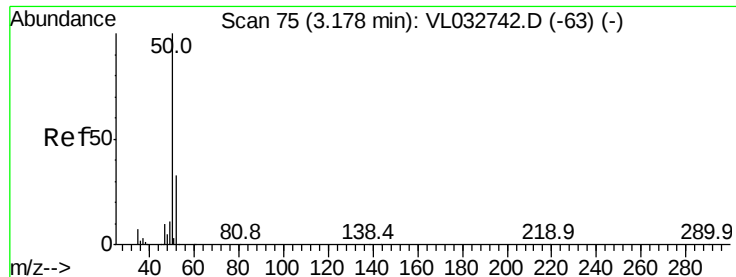
85 100

87 23.3 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

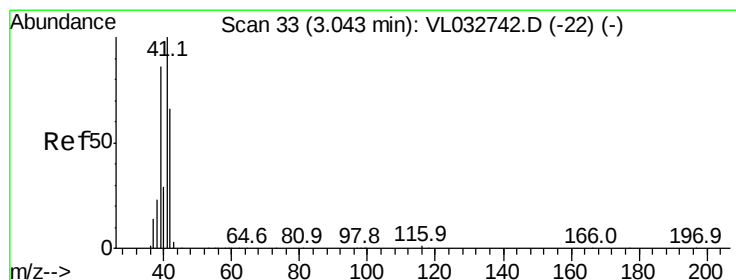
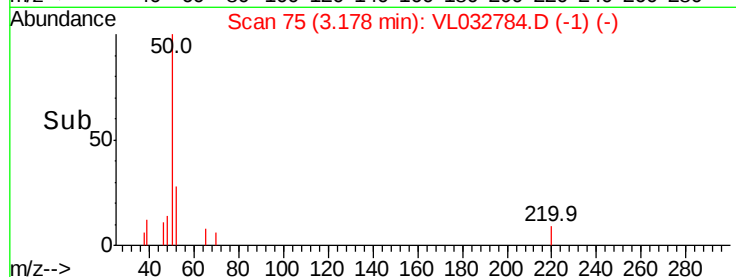
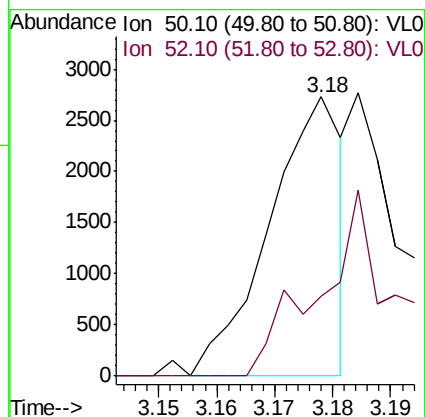
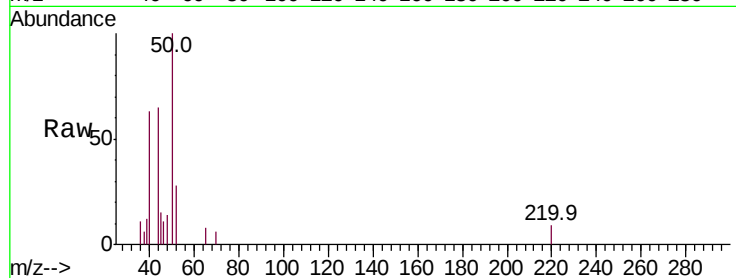
ClientSampled :

Tot Ion: 50 Resp: 2388

Ion Ratio Lower Upper

50 100

52 28.5 26.6 40.0



#9

Propene

Concen: 0.163 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032784.D

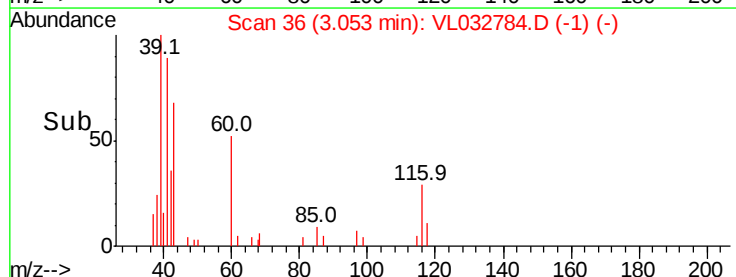
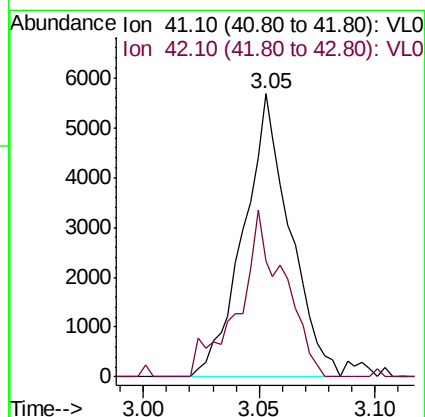
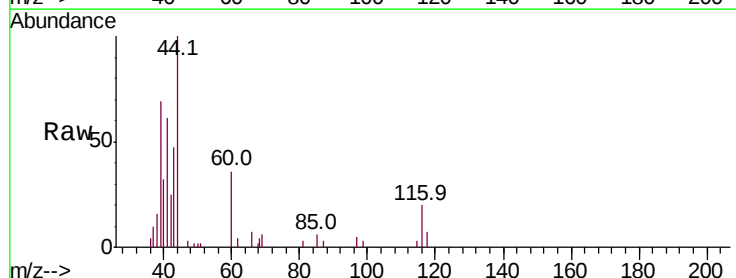
Acq: 20 Nov 2018 18:45

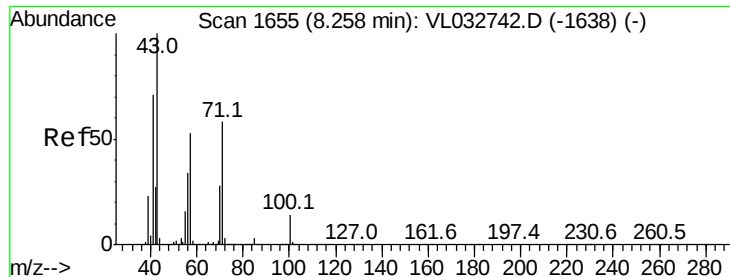
Tgt Ion: 41 Resp: 7922

Ion Ratio Lower Upper

41 100

42 57.6 55.0 82.6





#10

Heptane

Concen: 0.046 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

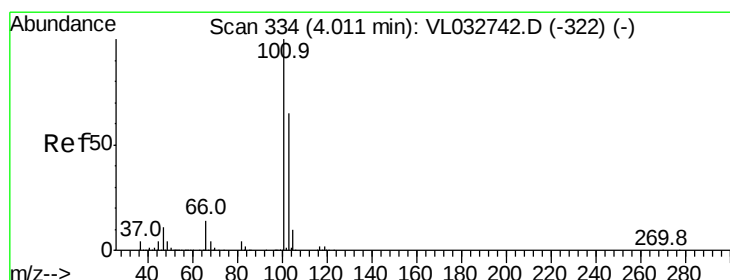
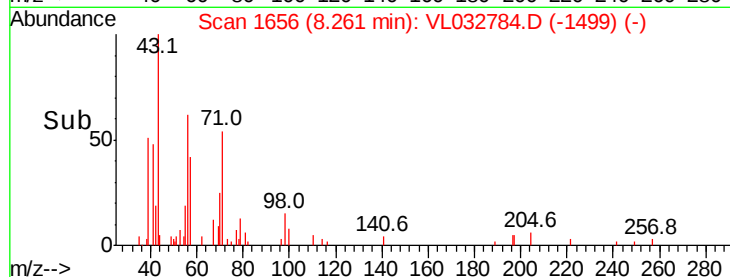
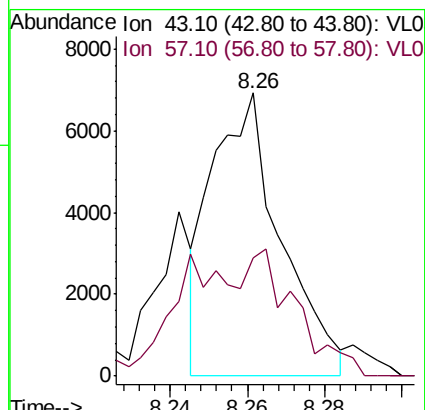
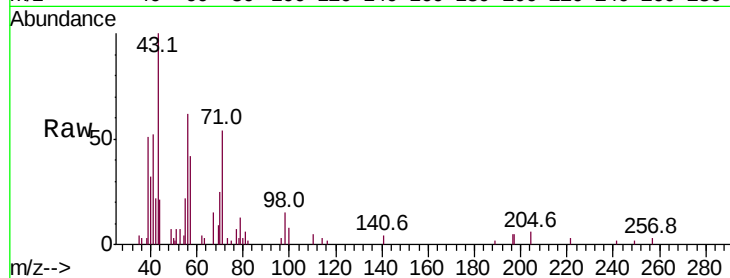
ClientSampleId :

Tot Ion: 43 Resp: 8563

Ion Ratio Lower Upper

43 100

57 71.7 41.8 62.8#



#11

Trichlorofluoromethane

Concen: 0.035 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL032784.D

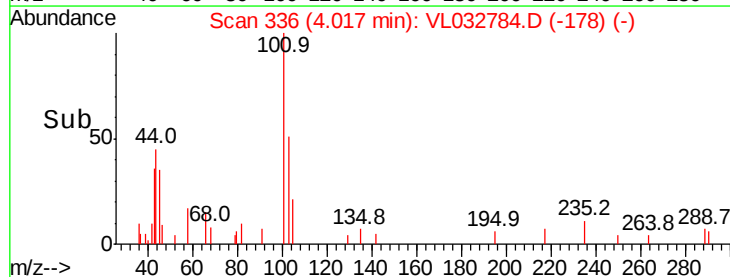
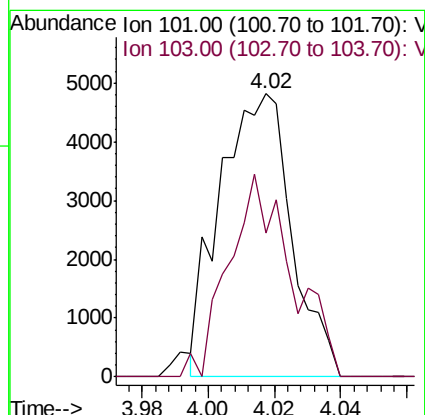
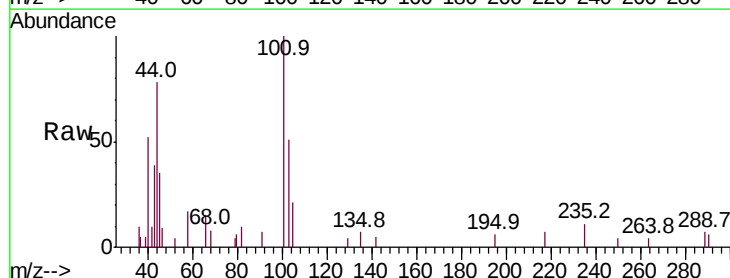
Acq: 20 Nov 2018 18:45

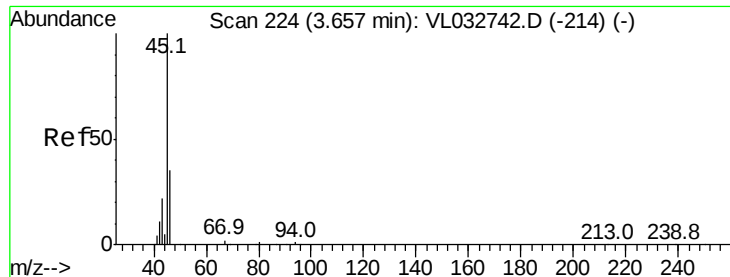
Tgt Ion:101 Resp: 7265

Ion Ratio Lower Upper

101 100

103 50.7 51.6 77.4#





#13

Ethanol

Concen: 9.266 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

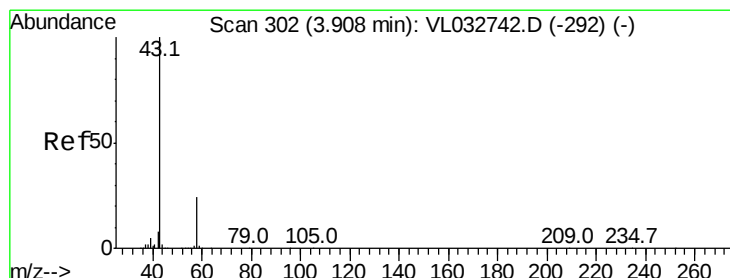
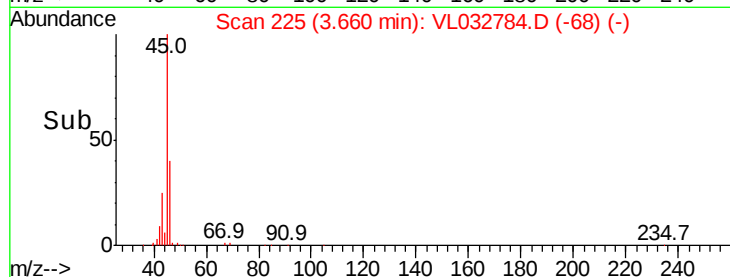
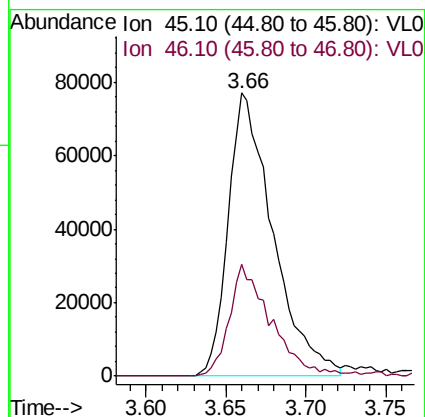
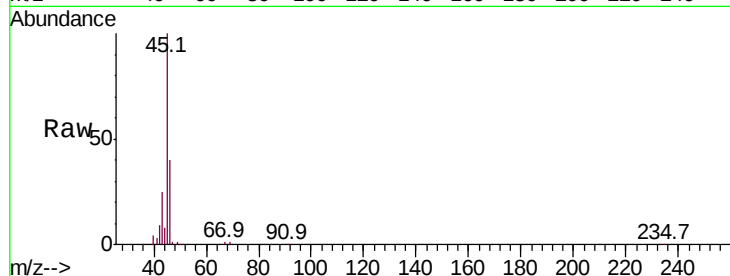
ClientSampled :

Tot Ion: 45 Resp: 147429

Ion Ratio Lower Upper

45 100

46 36.7 14.5 57.9



#15

Acetone

Concen: 1.051 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL032784.D

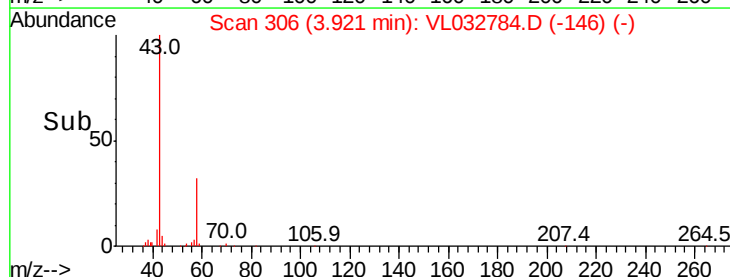
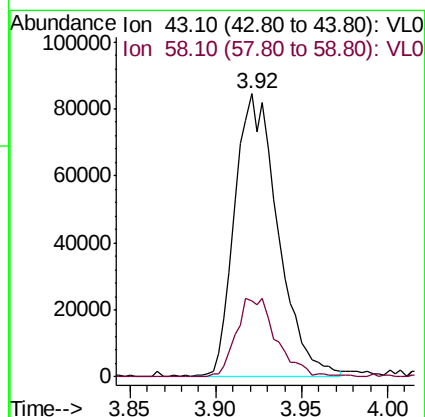
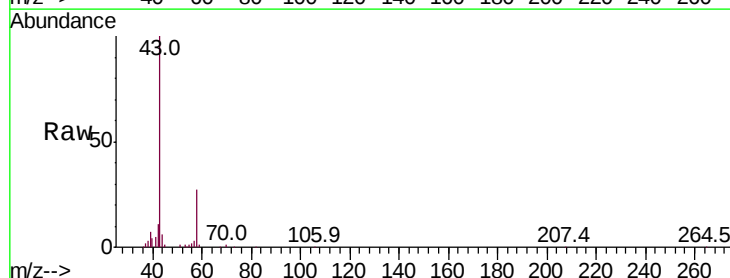
Acq: 20 Nov 2018 18:45

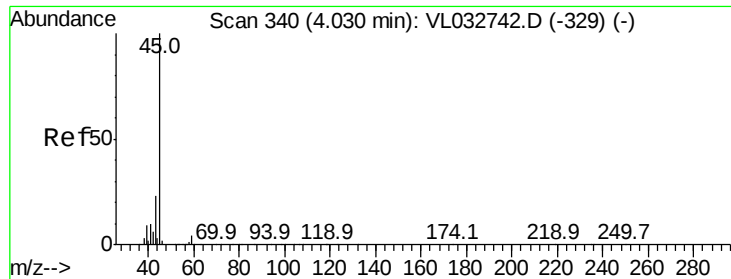
Tgt Ion: 43 Resp: 146965

Ion Ratio Lower Upper

43 100

58 26.3 21.1 31.7





#19

Isopropyl Alcohol

Concen: 1.085 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

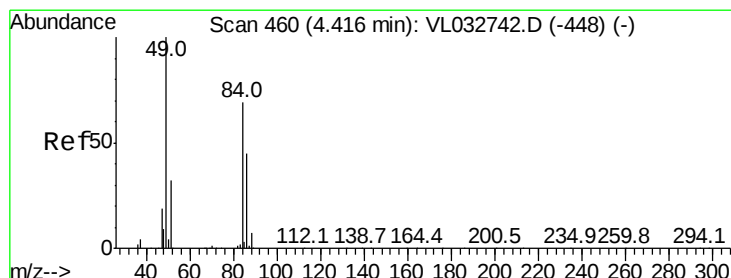
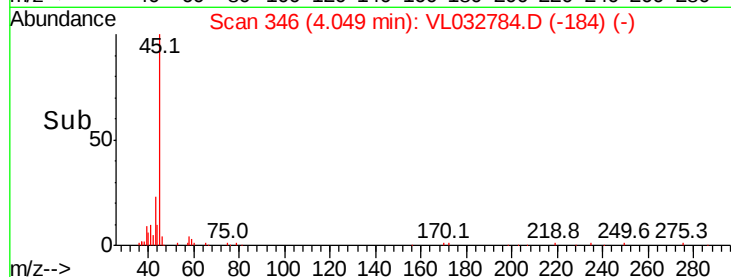
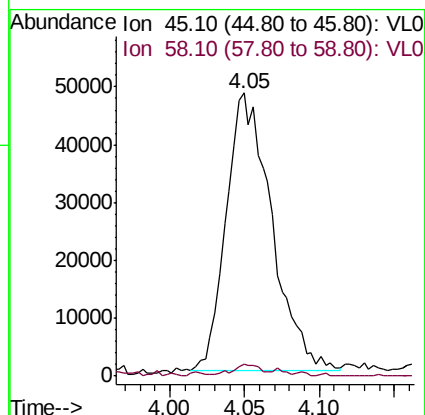
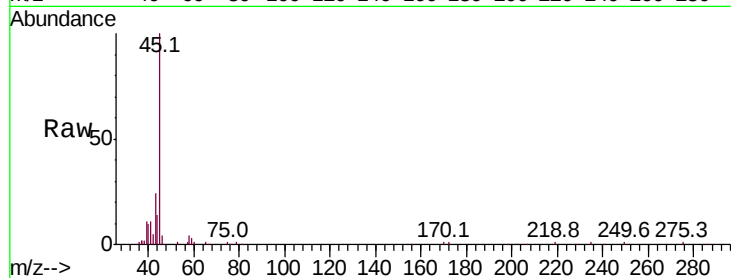
ClientSampled :

Tot Ion: 45 Resp: 101027

Ion Ratio Lower Upper

45 100

58 4.4 1.4 2.0#



#20

Methylene Chloride

Concen: 0.513 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Tgt Ion: 84 Resp: 37169

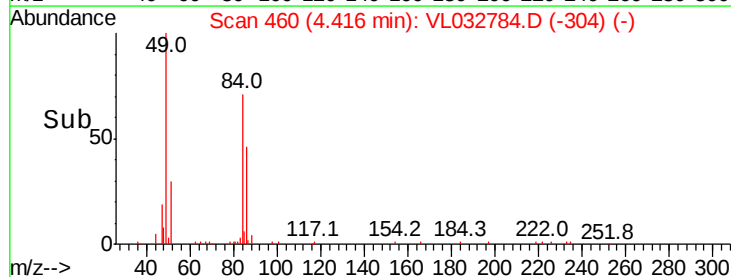
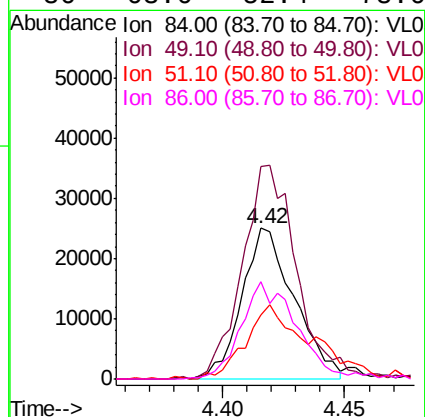
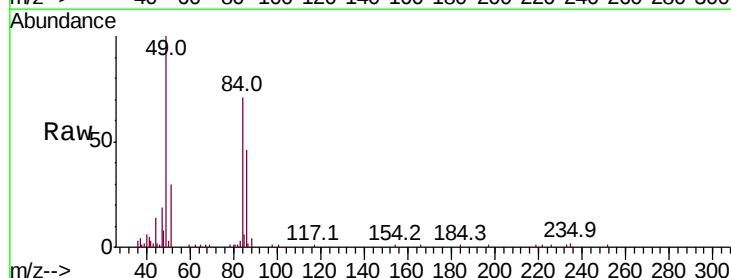
Ion Ratio Lower Upper

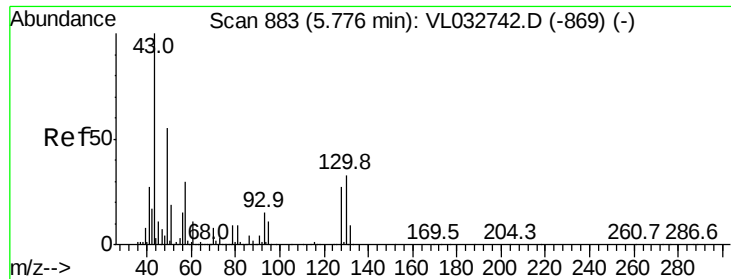
84 100

49 141.0 115.8 173.6

51 42.6 36.9 55.3

86 63.6 52.4 78.6





#25

Ethyl Acetate

Concen: 0.087 ppbv

RT: 5.79 min Scan# 888

Delta R.T. 0.02 min

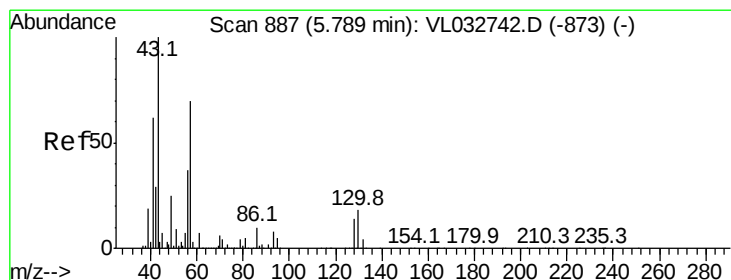
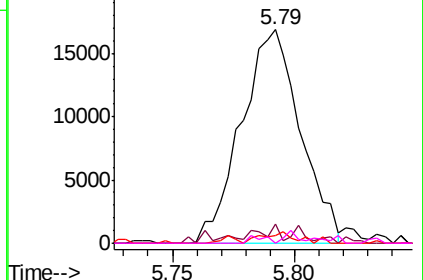
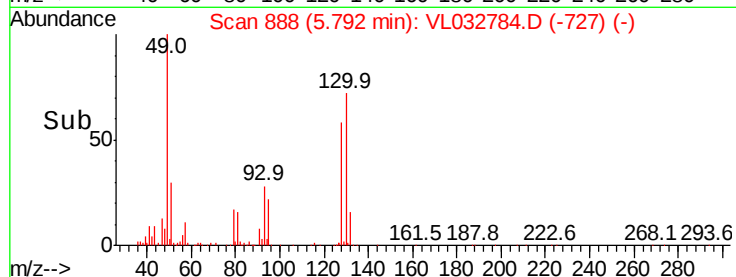
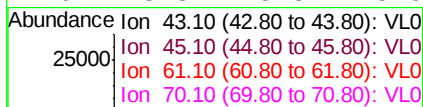
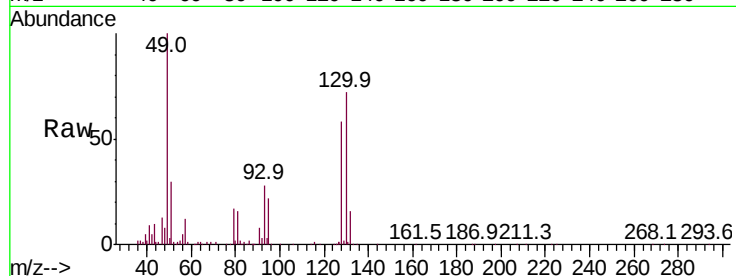
Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 28395

Ion	Ratio	Lower	Upper
43	100		
45	8.3	7.9	11.9
61	4.0	7.8	11.6#
70	3.3	5.8	8.6#



#26

Hexane

Concen: 0.224 ppbv

RT: 5.79 min Scan# 887

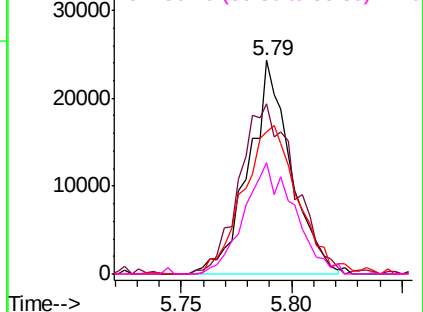
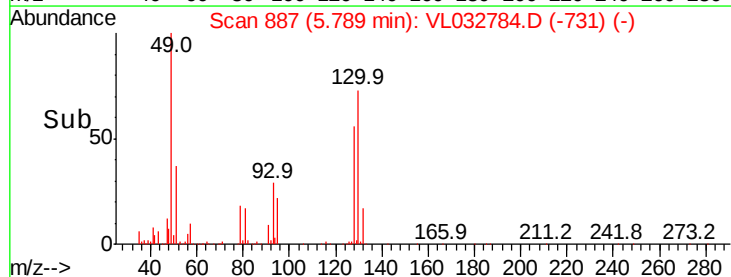
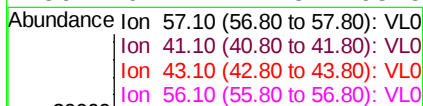
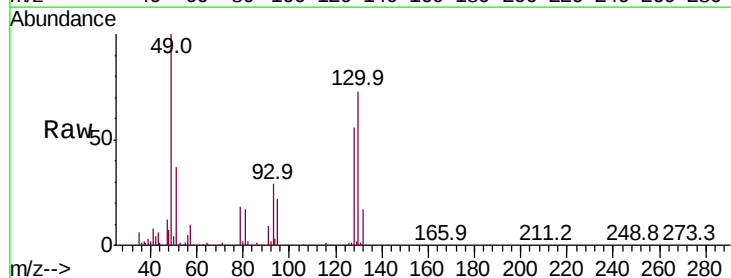
Delta R.T. 0.00 min

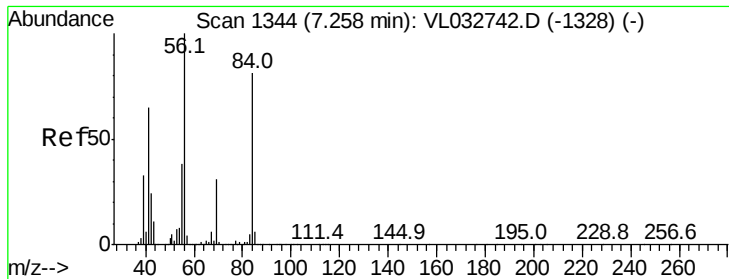
Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Tgt Ion: 57 Resp: 32469

Ion	Ratio	Lower	Upper
57	100		
41	104.2	70.3	105.5
43	90.6	174.0	261.0#
56	62.1	42.3	63.5

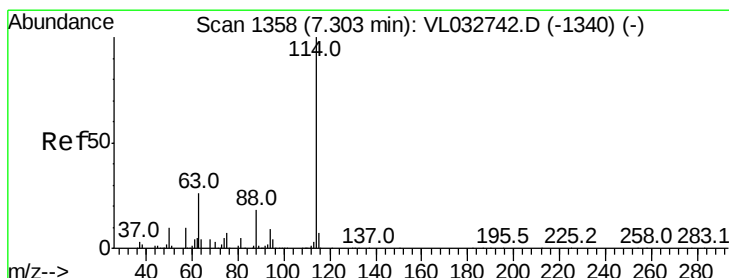
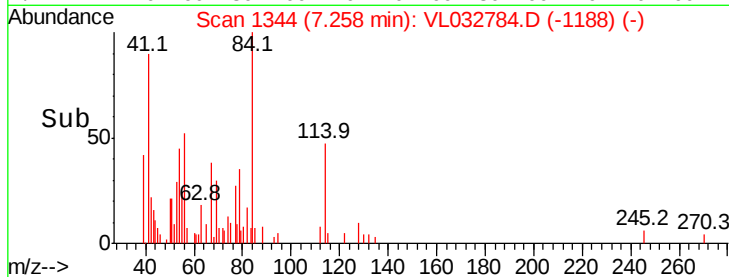
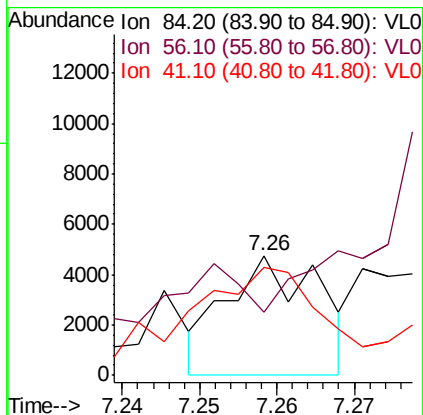
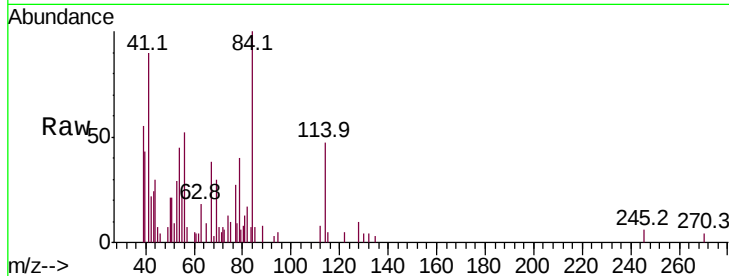




#30
Cvclohexane
Concen: 0.031 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

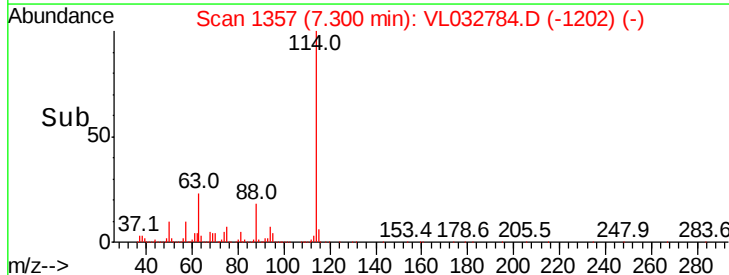
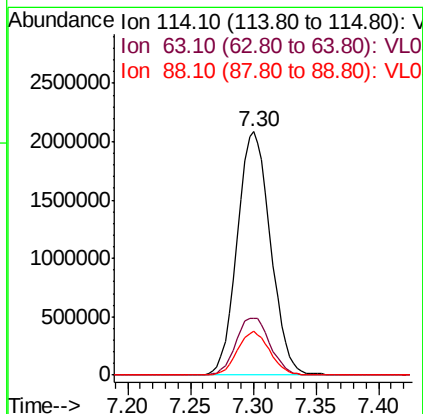
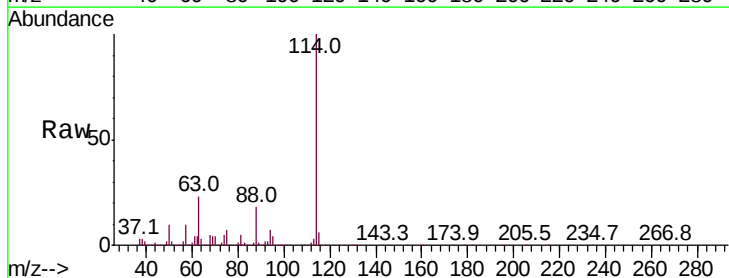
Instrument :
MSVOA_L
ClientSampleId :

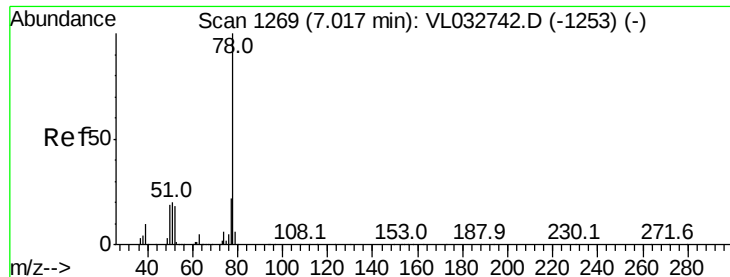
Tot Ion: 84 Resp: 3958
Ion Ratio Lower Upper
84 100
56 0.0 105.0 157.4#
41 194.3 65.3 97.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

Tgt Ion: 114 Resp: 3848909
Ion Ratio Lower Upper
114 100
63 24.1 20.9 31.3
88 17.5 14.4 21.6





#36

Benzene

Concen: 0.037 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

ClientSampled :

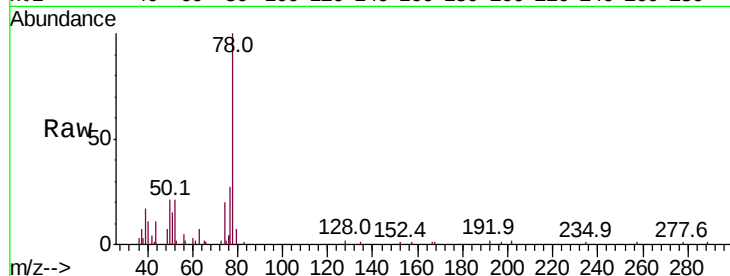
Tot Ion: 78 Resp: 11445

Ion Ratio Lower Upper

78 100

77 25.8 17.8 26.8

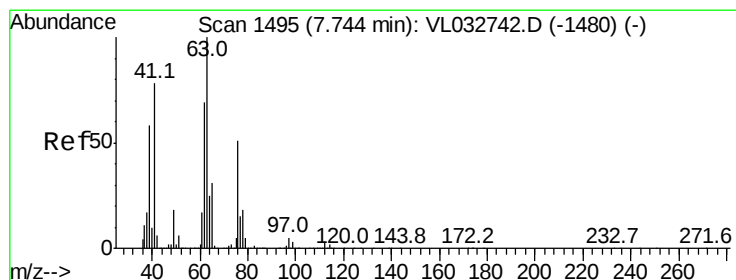
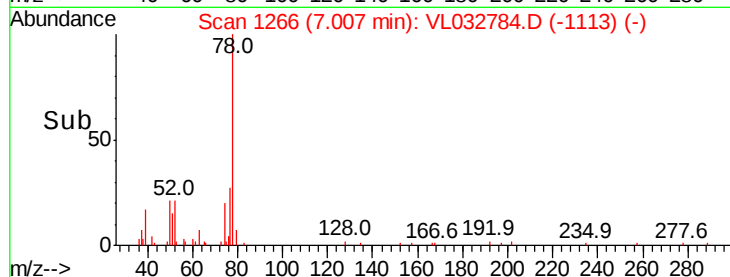
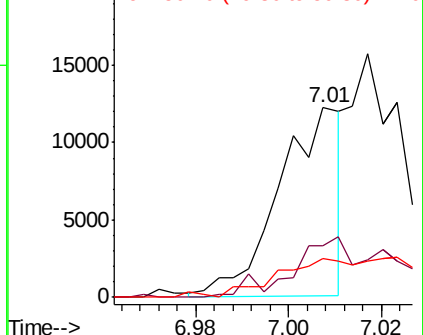
50 18.4 15.4 23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.921 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

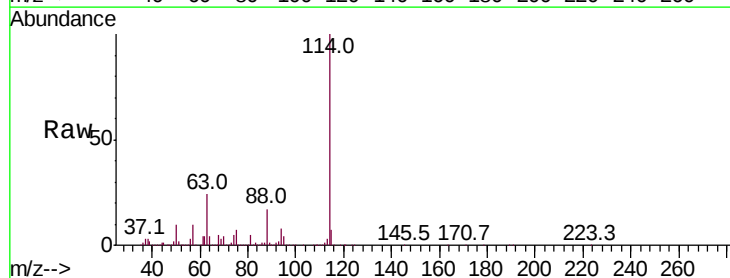
Tgt Ion: 63 Resp: 924969

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

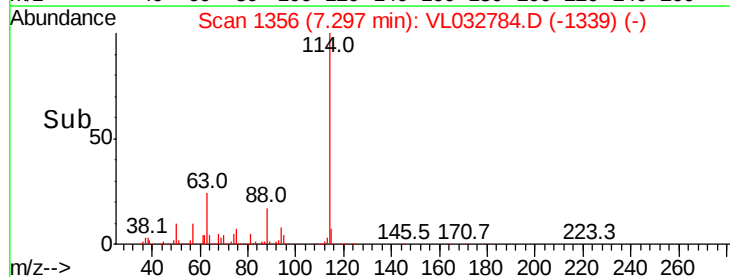
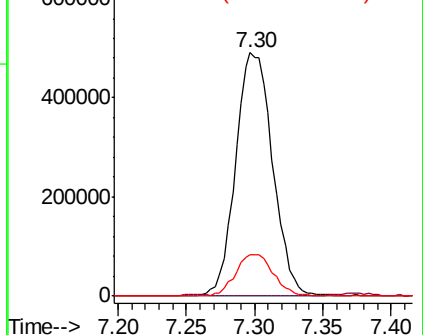
62 16.9 55.4 83.2#

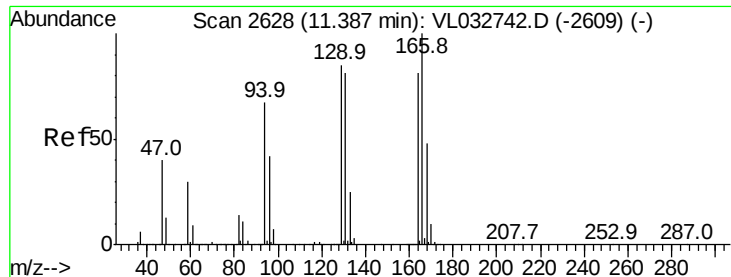


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 13.603 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 1450323

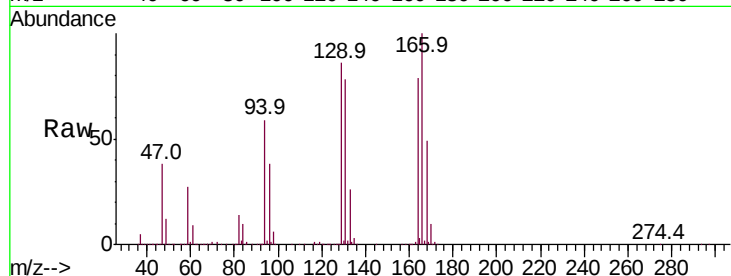
Ion Ratio Lower Upper

164 100

166 127.3 99.3 148.9

129 109.6 83.9 125.9

131 98.9 80.8 121.2



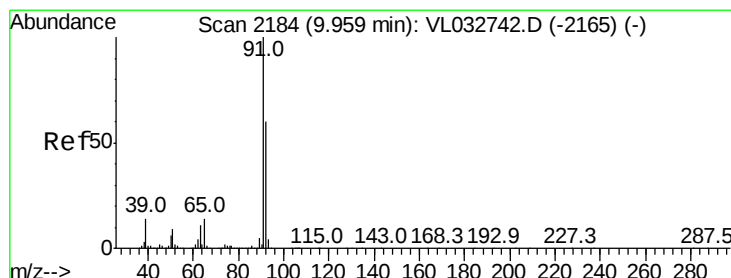
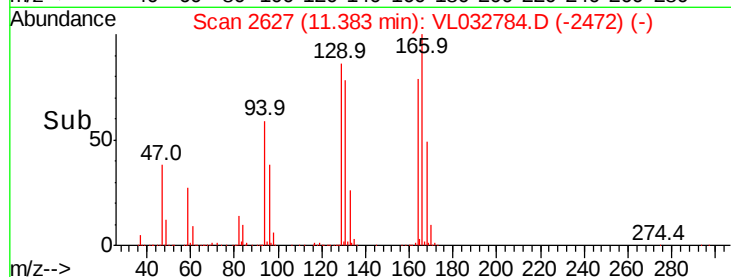
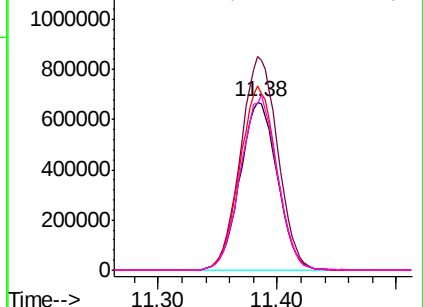
Abundance

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: 0.125 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL032784.D

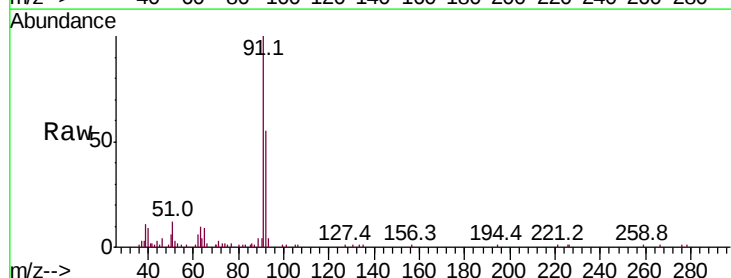
Acq: 20 Nov 2018 18:45

Tgt Ion: 91 Resp: 39854

Ion Ratio Lower Upper

91 100

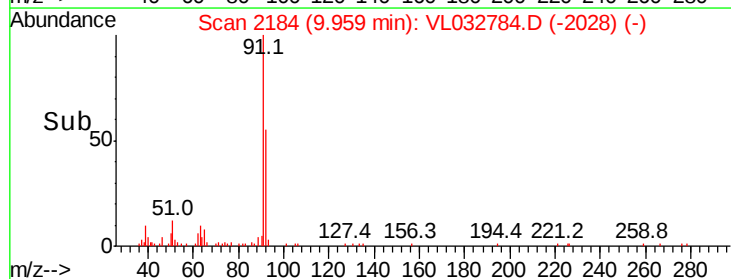
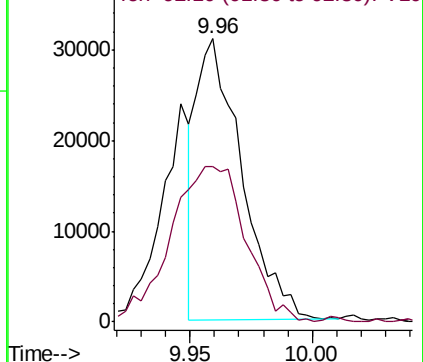
92 93.5 47.9 71.9#

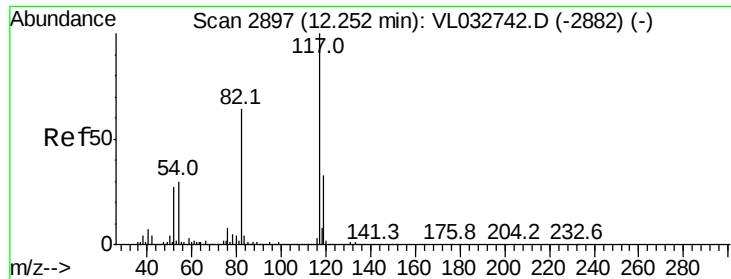


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

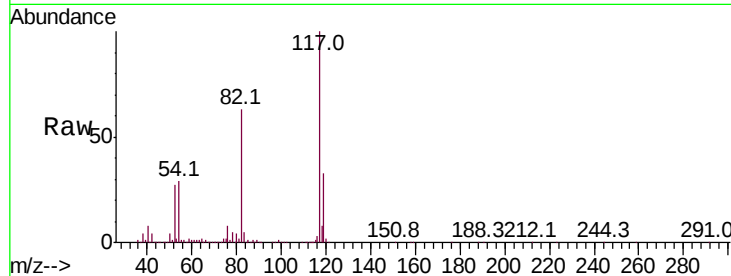




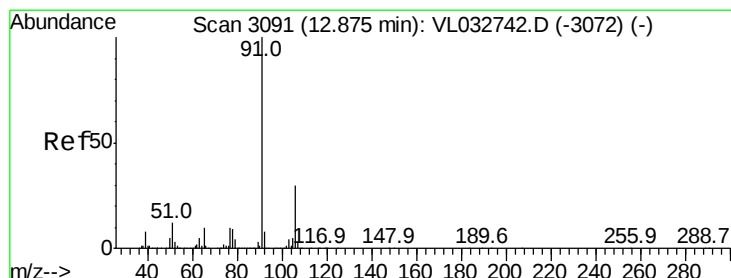
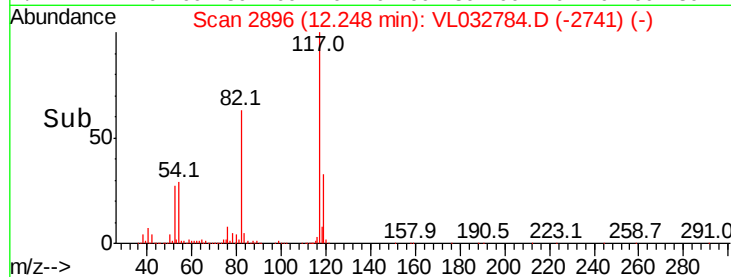
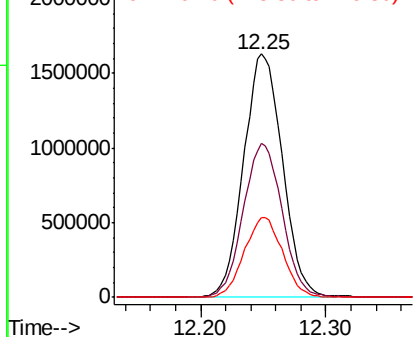
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3516607
Ion Ratio Lower Upper
117 100
82 63.8 51.0 76.6
119 32.7 28.0 42.0

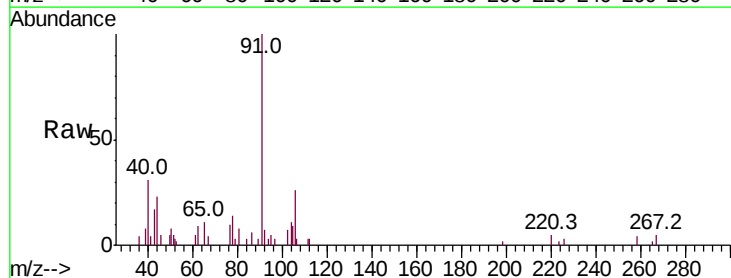


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

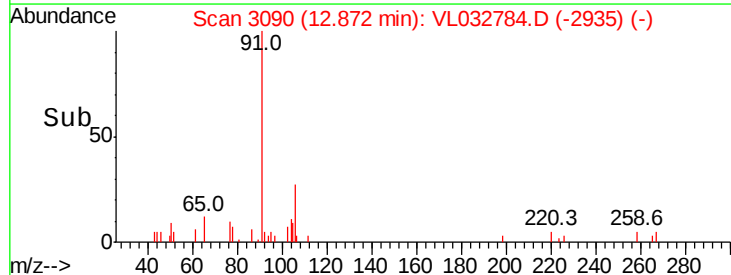
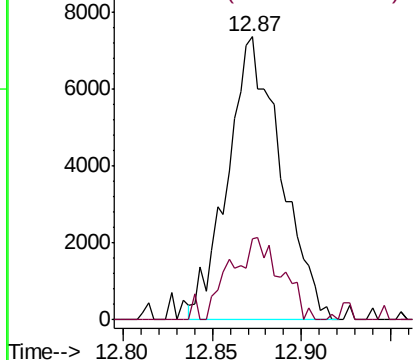


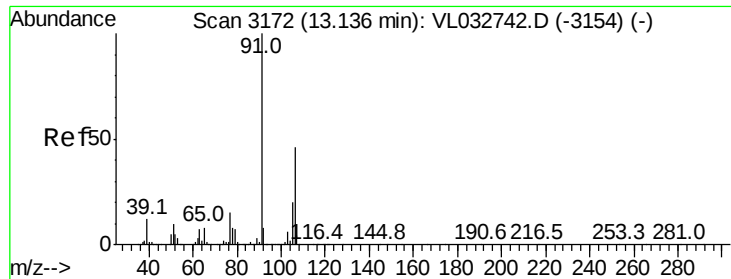
#58
Ethyl Benzene
Concen: 0.036 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

Tgt Ion: 91 Resp: 15354
Ion Ratio Lower Upper
91 100
106 28.6 23.6 35.4



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

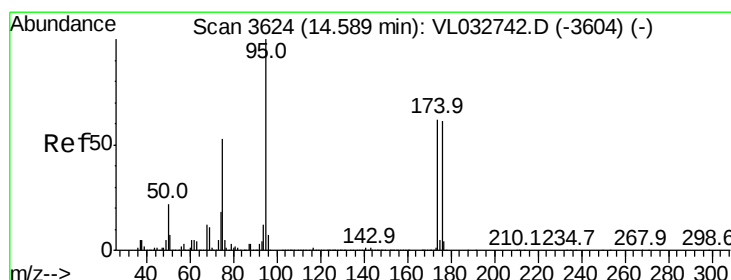
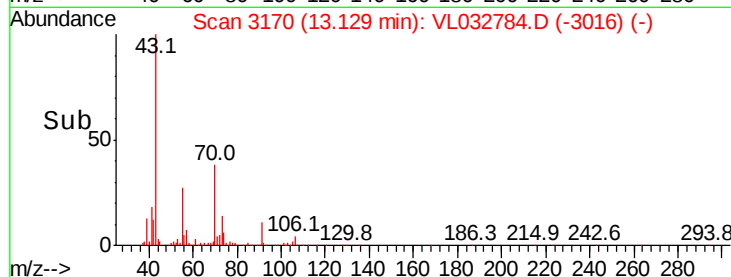
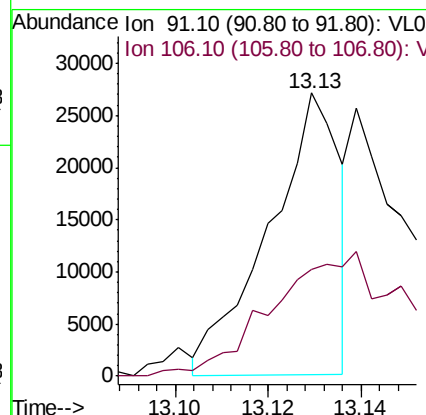
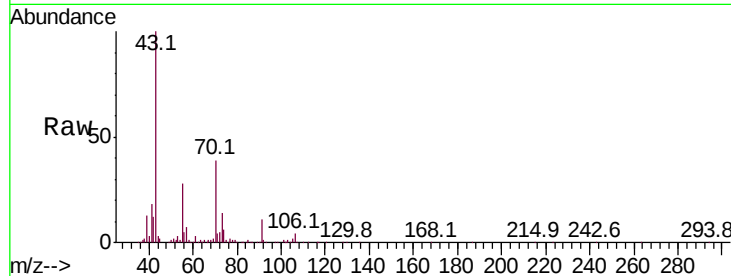




#59
m/p-Xylene
Concen: 0.076 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

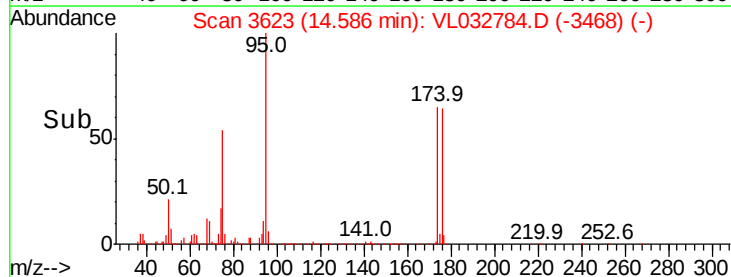
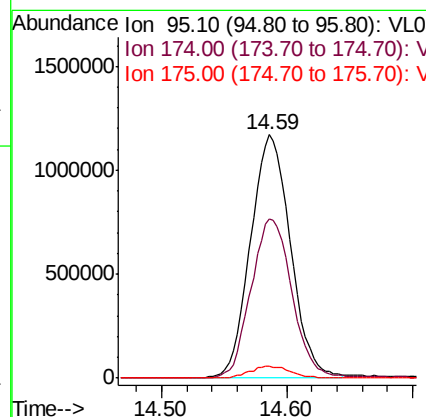
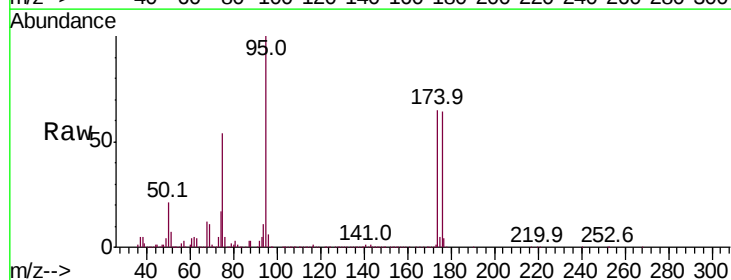
Instrument :
MSVOA_L
ClientSampleId :

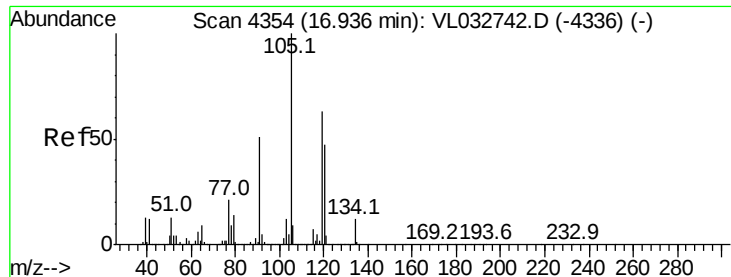
Tot Ion: 91 Resp: 28677
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.873 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032784.D
Acq: 20 Nov 2018 18:45

Tgt Ion: 95 Resp: 2596721
Ion Ratio Lower Upper
95 100
174 68.2 50.7 76.1
175 5.1 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.035 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032784.D

Acq: 20 Nov 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 15176

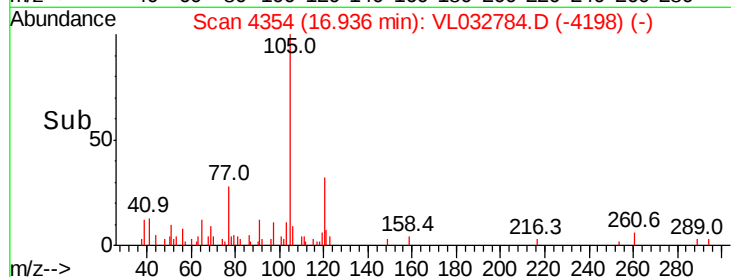
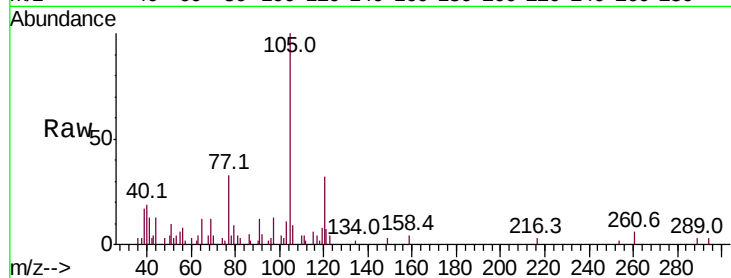
Ion Ratio Lower Upper

105 100

120 44.8 37.6 56.4

91 13.4 42.5 63.7#

77 34.6 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

