

Data File : VL033537.D
Acq On : 4 Apr 2019 17:42
Operator : SY/AP
Sample : K2096-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-1DL

Quant Time: Apr 05 01:57:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1217996	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2862931	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2842443	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 2225253 9.99 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 99.90%

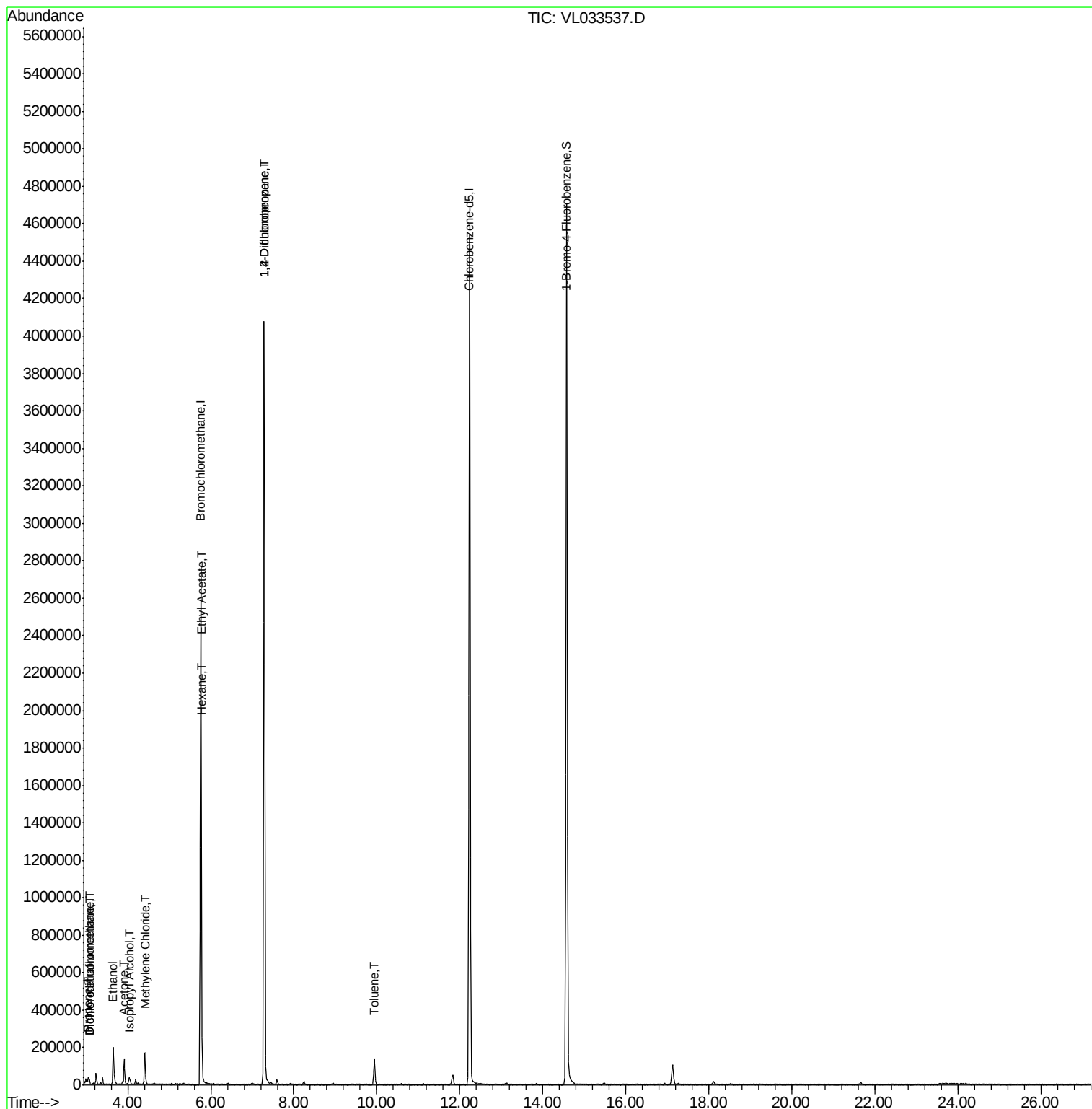
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	14656	0.083	ppbv #	87
8) Dichlorotetrafluoroethane	3.08	85	14656	0.077	ppbv #	17
9) Propene	3.05	41	7608	0.129	ppbv #	65
13) Ethanol	3.65	45	206635	13.560	ppbv	65
15) Acetone	3.90	43	134258	0.917	ppbv	100
19) Isopropyl Alcohol	4.04	45	46462	0.502	ppbv #	91
20) Methylene Chloride	4.41	84	57508	0.925	ppbv	88
25) Ethyl Acetate	5.78	43	59029	0.217	ppbv #	84
26) Hexane	5.78	57	67286	0.557	ppbv #	46
39) 1,2-Dichloropropane	7.29	63	733508	7.795	ppbv #	24
53) Toluene	9.94	91	46191	0.165	ppbv #	21

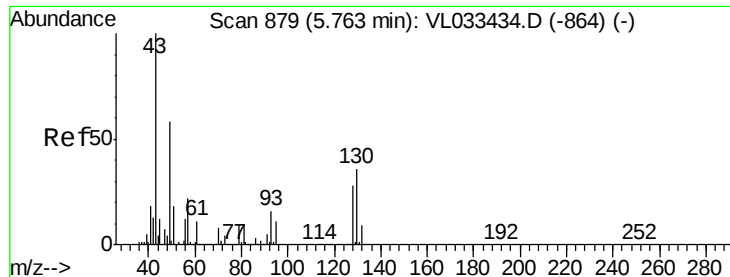
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

A-1DL

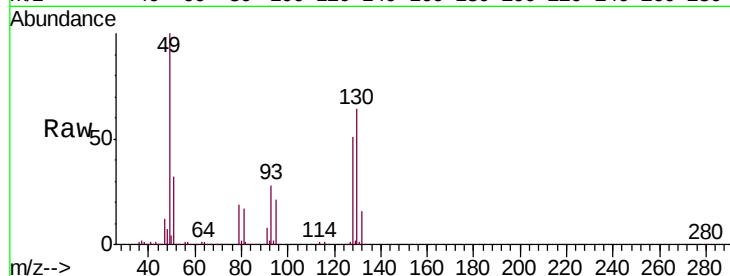
Tgt Ion: 49 Resp: 1217996

Ion Ratio Lower Upper

49 100

128 49.7 24.0 72.0

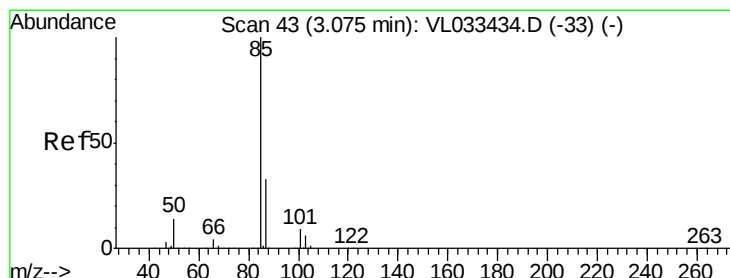
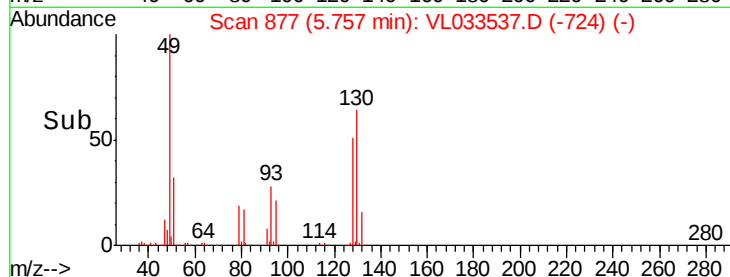
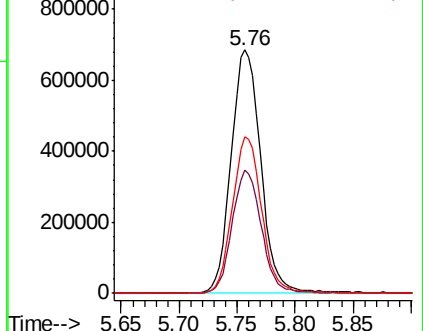
130 63.7 31.2 93.6



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: 0.083 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033537.D

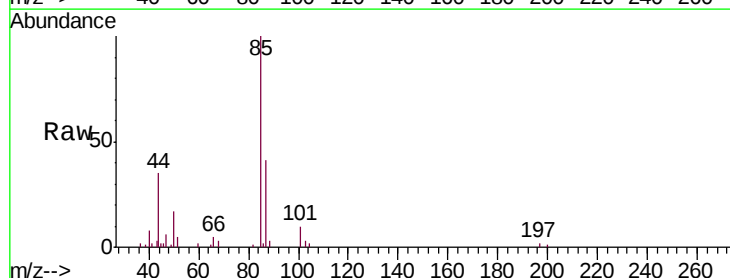
Acq: 4 Apr 2019 17:42

Tgt Ion: 85 Resp: 14656

Ion Ratio Lower Upper

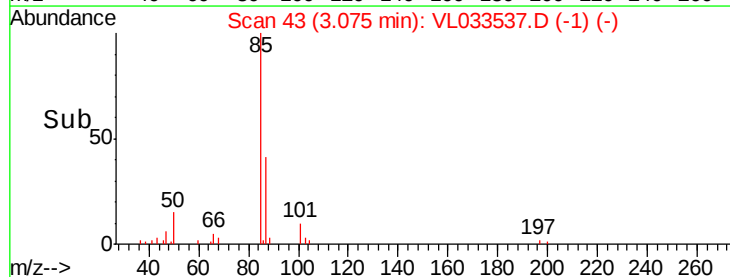
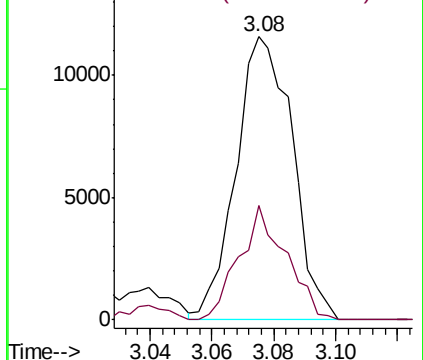
85 100

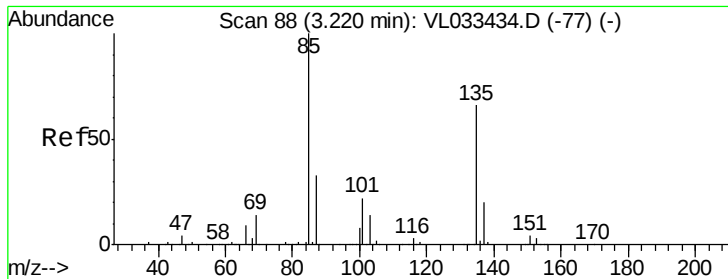
87 40.6 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.077 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.14 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

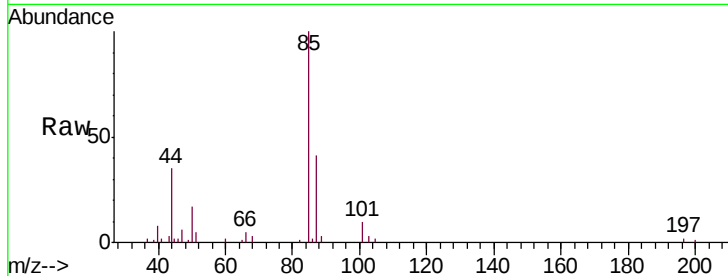
A-1DL

Tgt Ion: 85 Resp: 14656

Ion Ratio Lower Upper

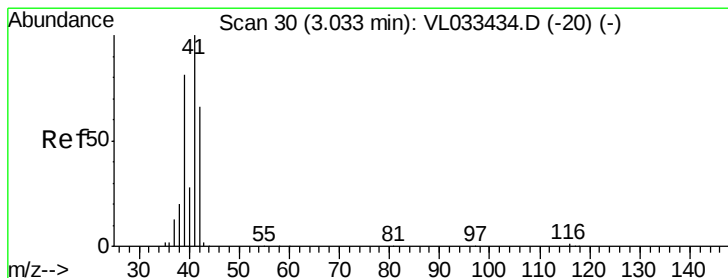
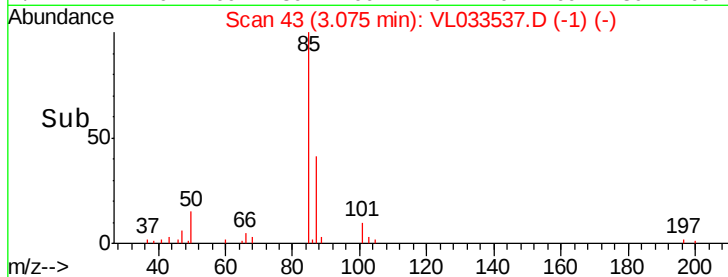
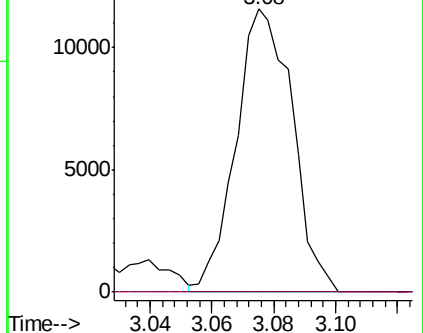
85 100

135 0.5 54.0 81.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.129 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033537.D

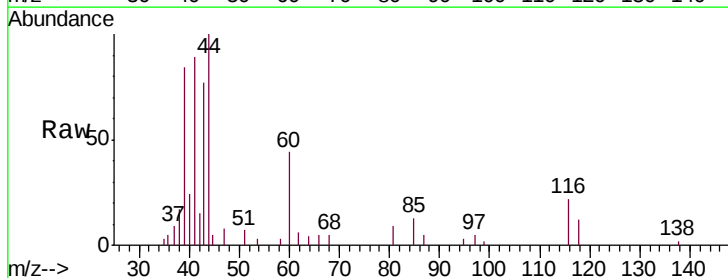
Acq: 4 Apr 2019 17:42

Tgt Ion: 41 Resp: 7608

Ion Ratio Lower Upper

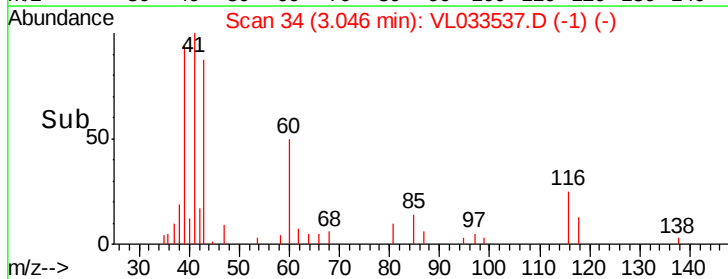
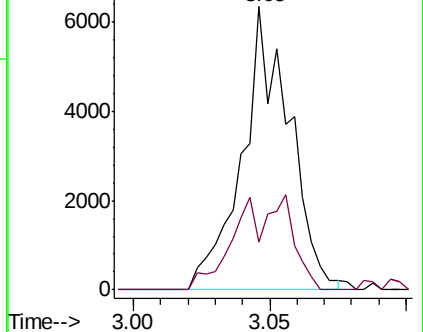
41 100

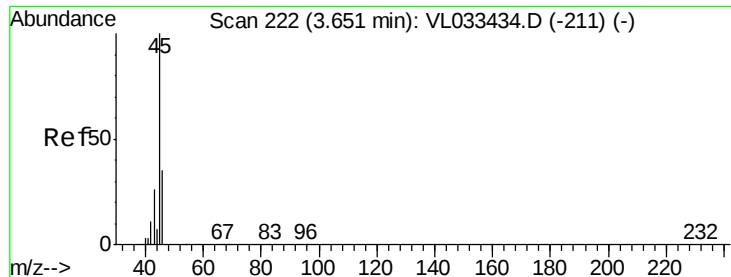
42 39.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 13.560 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

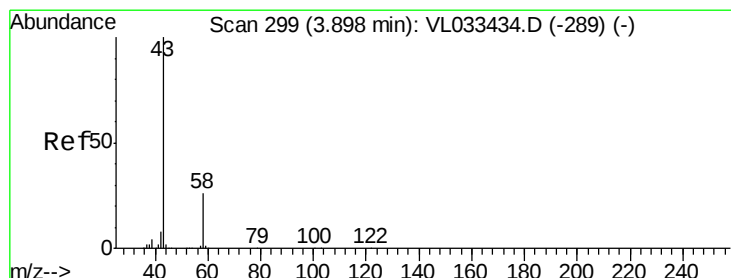
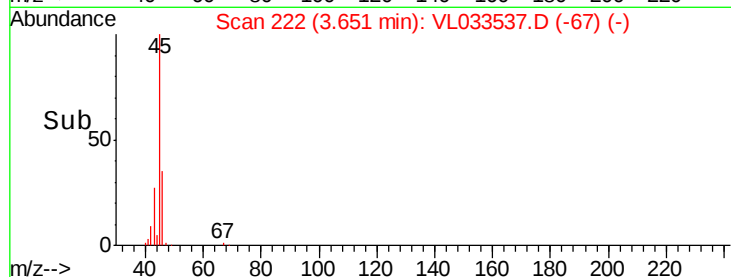
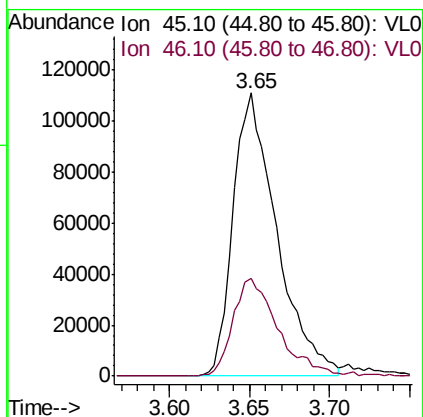
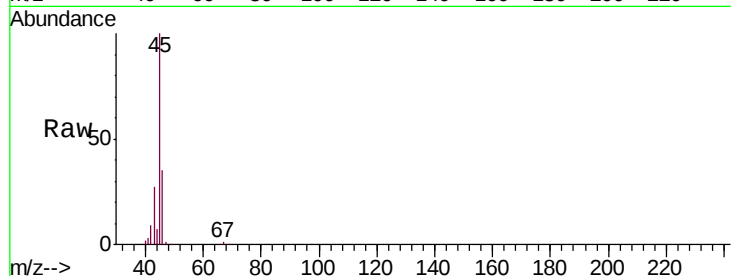
A-1DL

Tgt Ion: 45 Resp: 206635

Ion Ratio Lower Upper

45 100

46 36.1 25.4 101.8



#15

Acetone

Concen: 0.917 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033537.D

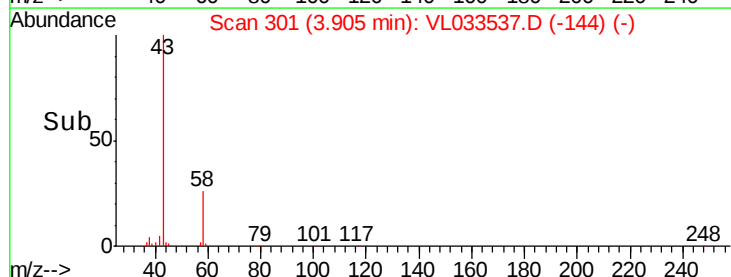
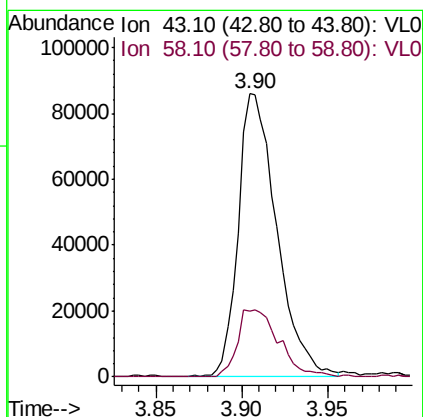
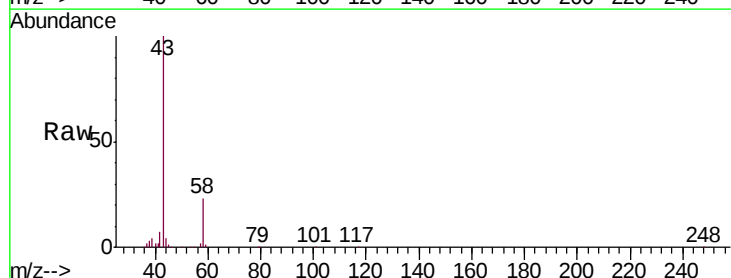
Acq: 4 Apr 2019 17:42

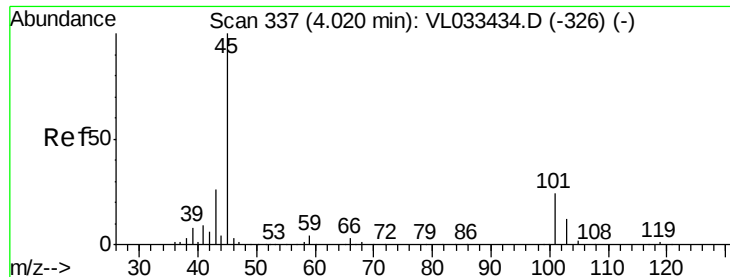
Tgt Ion: 43 Resp: 134258

Ion Ratio Lower Upper

43 100

58 25.7 20.5 30.7

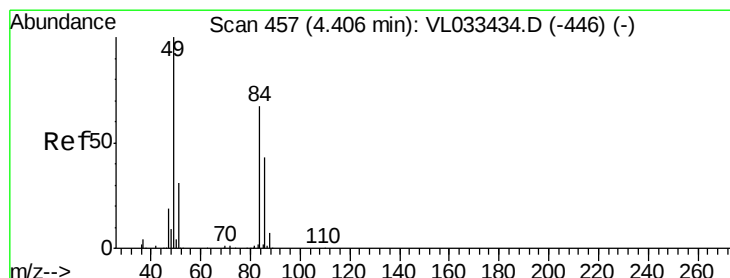
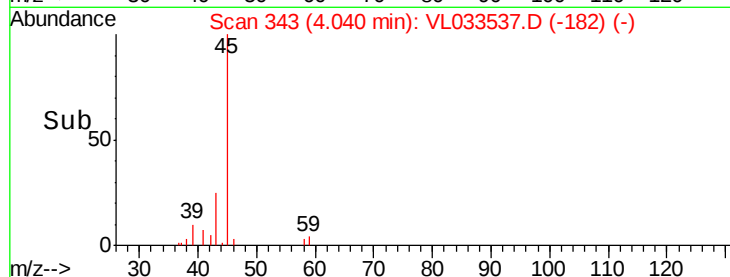
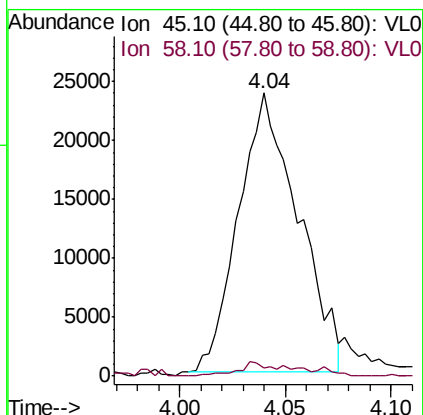
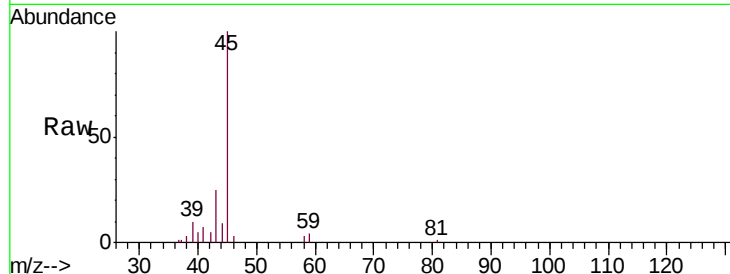




#19
Isopropyl Alcohol
Concen: 0.502 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033537.D
Acq: 4 Apr 2019 17:42

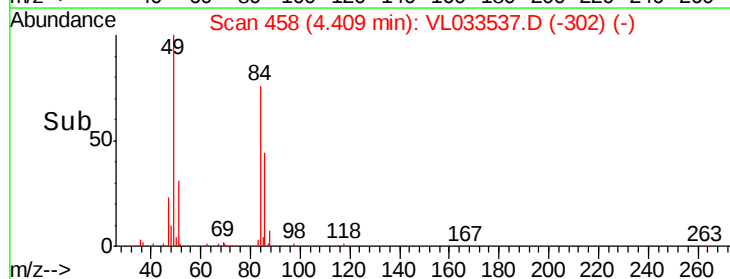
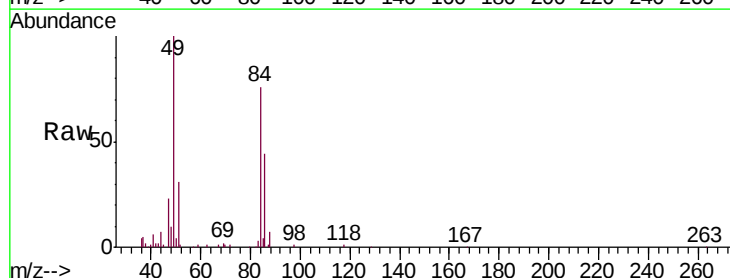
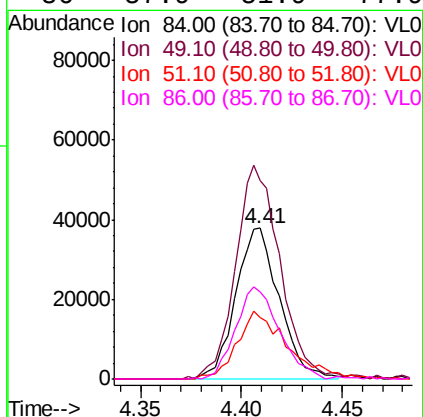
Instrument :
MSVOA_L
ClientSampled :
A-1DL

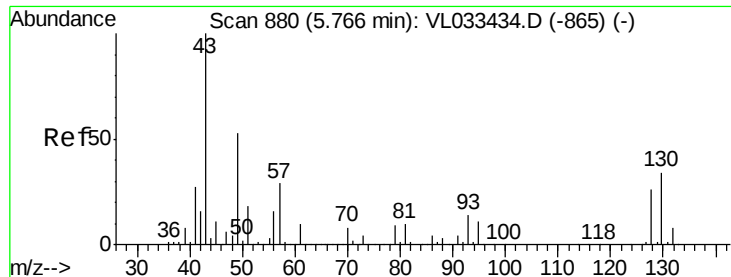
Tgt Ion: 45 Resp: 46462
Ion Ratio Lower Upper
45 100
58 5.0 1.4 2.2#



#20
Methylene Chloride
Concen: 0.925 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033537.D
Acq: 4 Apr 2019 17:42

Tgt Ion: 84 Resp: 57508
Ion Ratio Lower Upper
84 100
49 130.6 120.0 180.0
51 40.8 36.7 55.1
86 57.9 51.9 77.9





#25

Ethyl Acetate

Concen: 0.217 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

A-1DL

Tgt Ion: 43 Resp: 59029

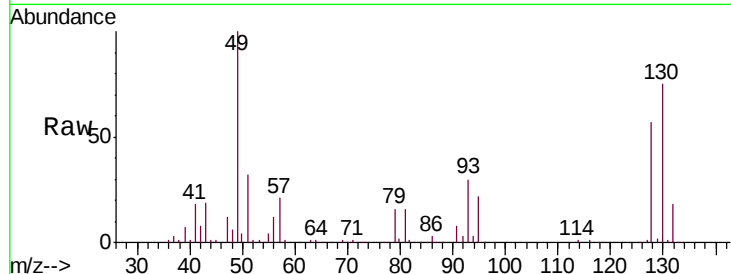
Ion Ratio Lower Upper

43 100

45 3.9 7.8 11.6#

61 2.5 7.3 10.9#

70 2.9 5.6 8.4#

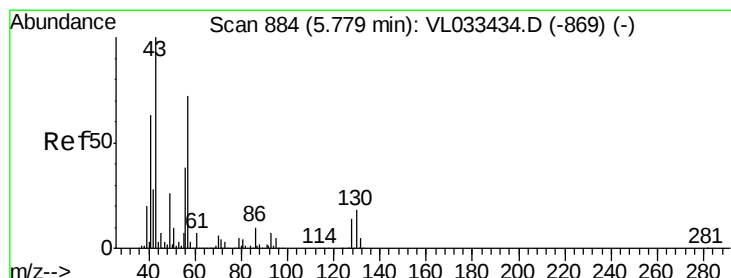
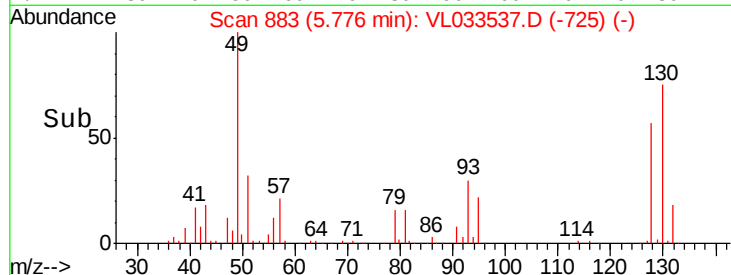
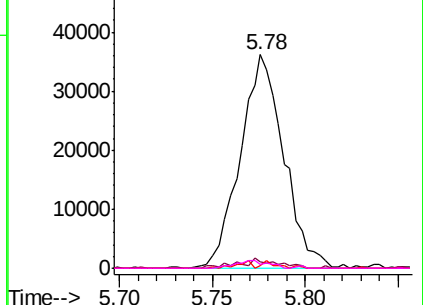


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.557 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Tgt Ion: 57 Resp: 67286

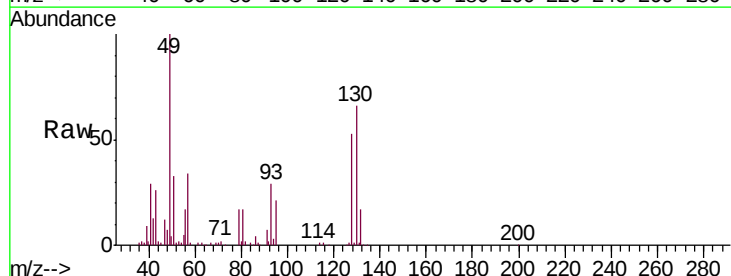
Ion Ratio Lower Upper

57 100

41 91.8 70.7 106.1

43 88.1 182.6 274.0#

56 57.0 42.0 63.0

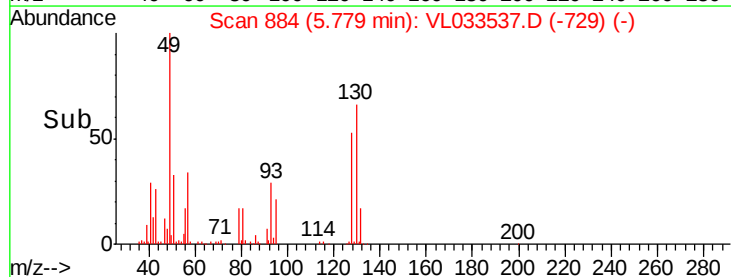
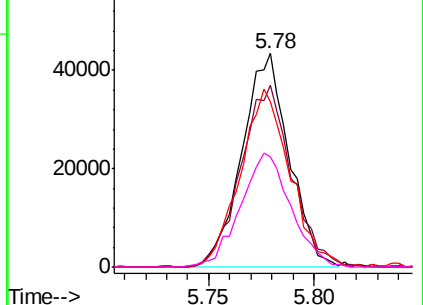


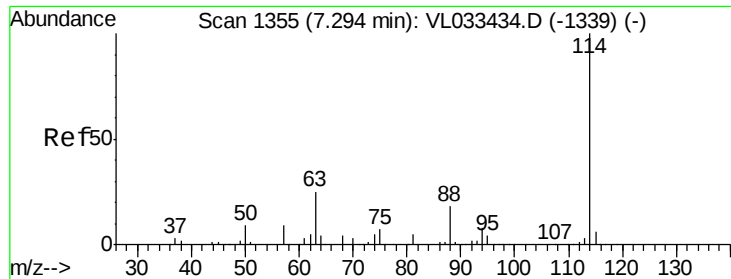
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

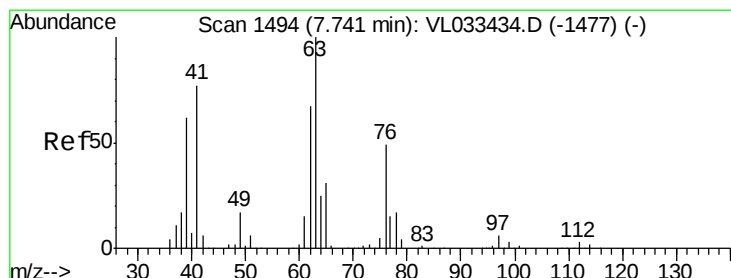
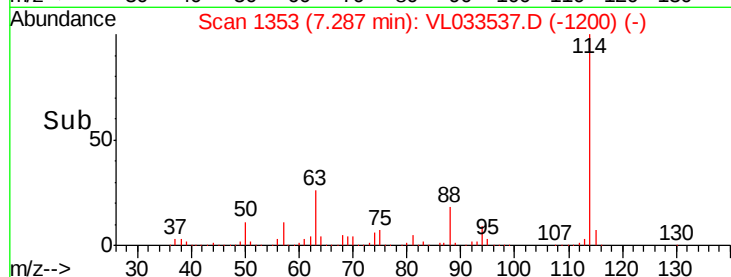
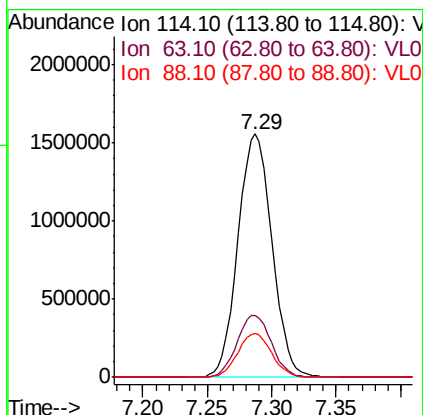
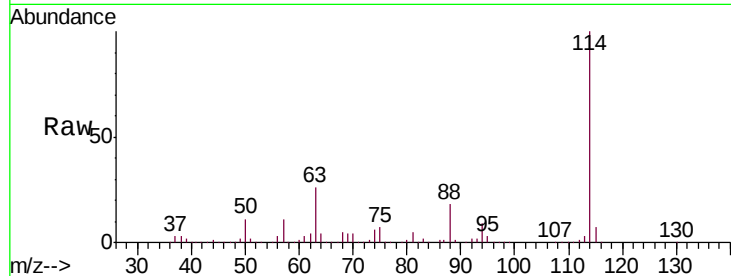




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033537.D
 Acq: 4 Apr 2019 17:42

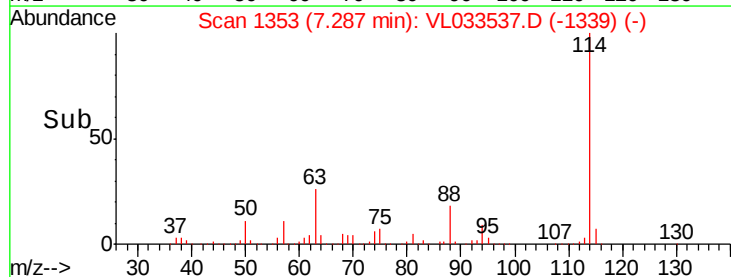
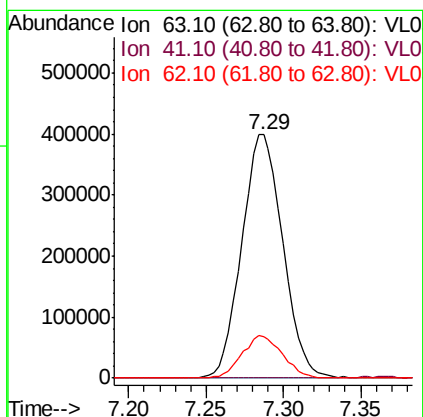
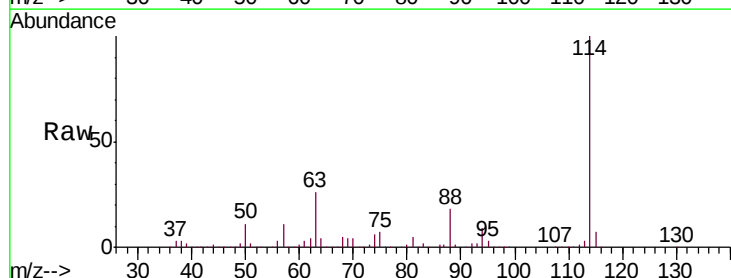
Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DL

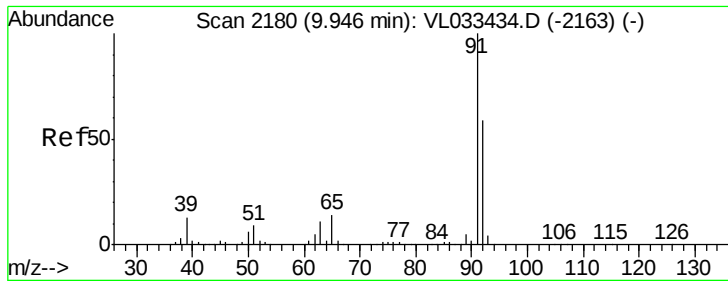
Tgt Ion: 114 Resp: 2862931
 Ion Ratio Lower Upper
 114 100
 63 25.7 21.5 32.3
 88 18.1 14.5 21.7



#39
 1,2-Dichloropropane
 Concen: 7.795 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033537.D
 Acq: 4 Apr 2019 17:42

Tgt Ion: 63 Resp: 733508
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 17.3 54.0 81.0#





#53

Toluene

Concen: 0.165 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

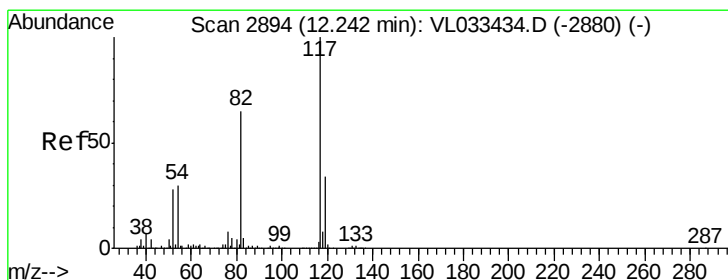
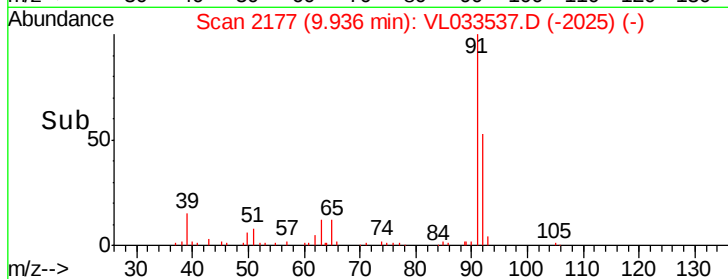
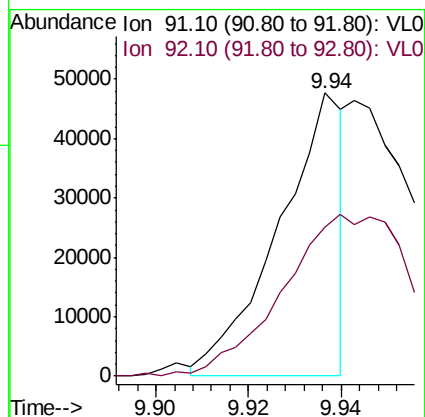
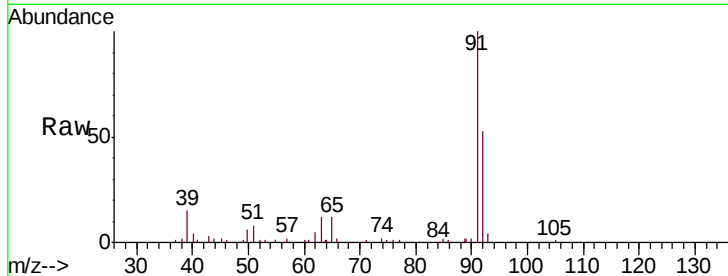
A-1DL

Tgt Ion: 91 Resp: 46191

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

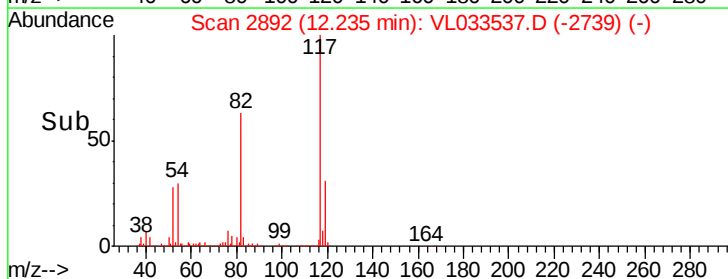
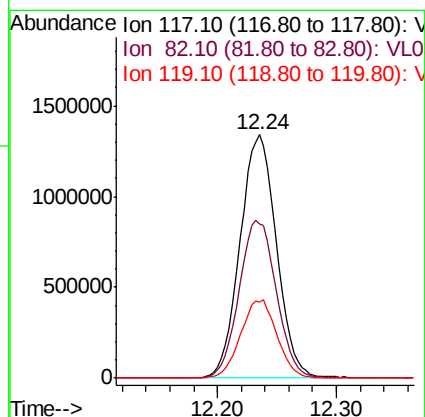
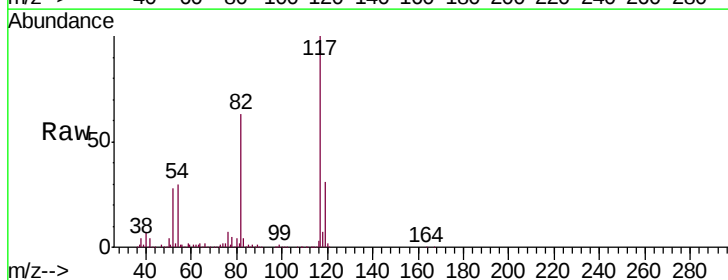
Tgt Ion: 117 Resp: 2842443

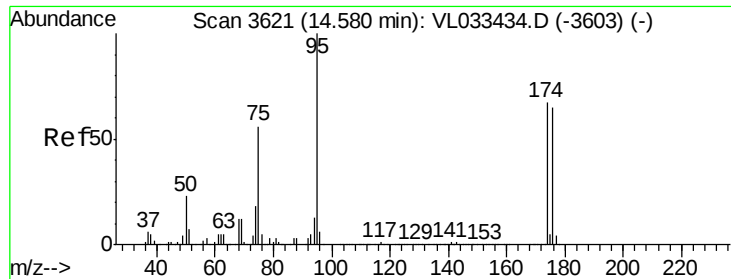
Ion Ratio Lower Upper

117 100

82 66.5 51.5 77.3

119 32.3 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.986 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033537.D

Acq: 4 Apr 2019 17:42

Instrument :

MSVOA_L

ClientSampleId :

A-1DL

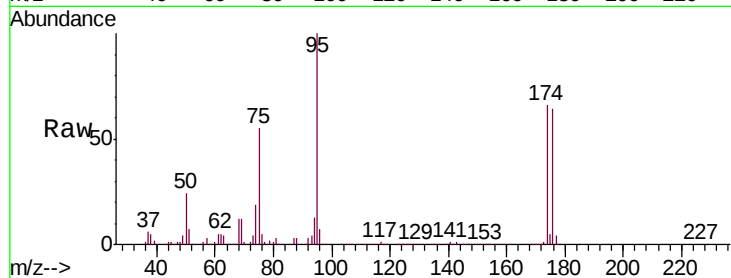
Tgt Ion: 95 Resp: 2225253

Ion Ratio Lower Upper

95 100

174 67.3 52.9 79.3

175 4.9 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

