

Data File : VL033574.D
Acq On : 10 Apr 2019 21:37
Operator : SY/AP
Sample : K2301-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Quant Time: Apr 11 03:46:55 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	901049	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2131117	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2155612	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1698646 10.05 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.50%

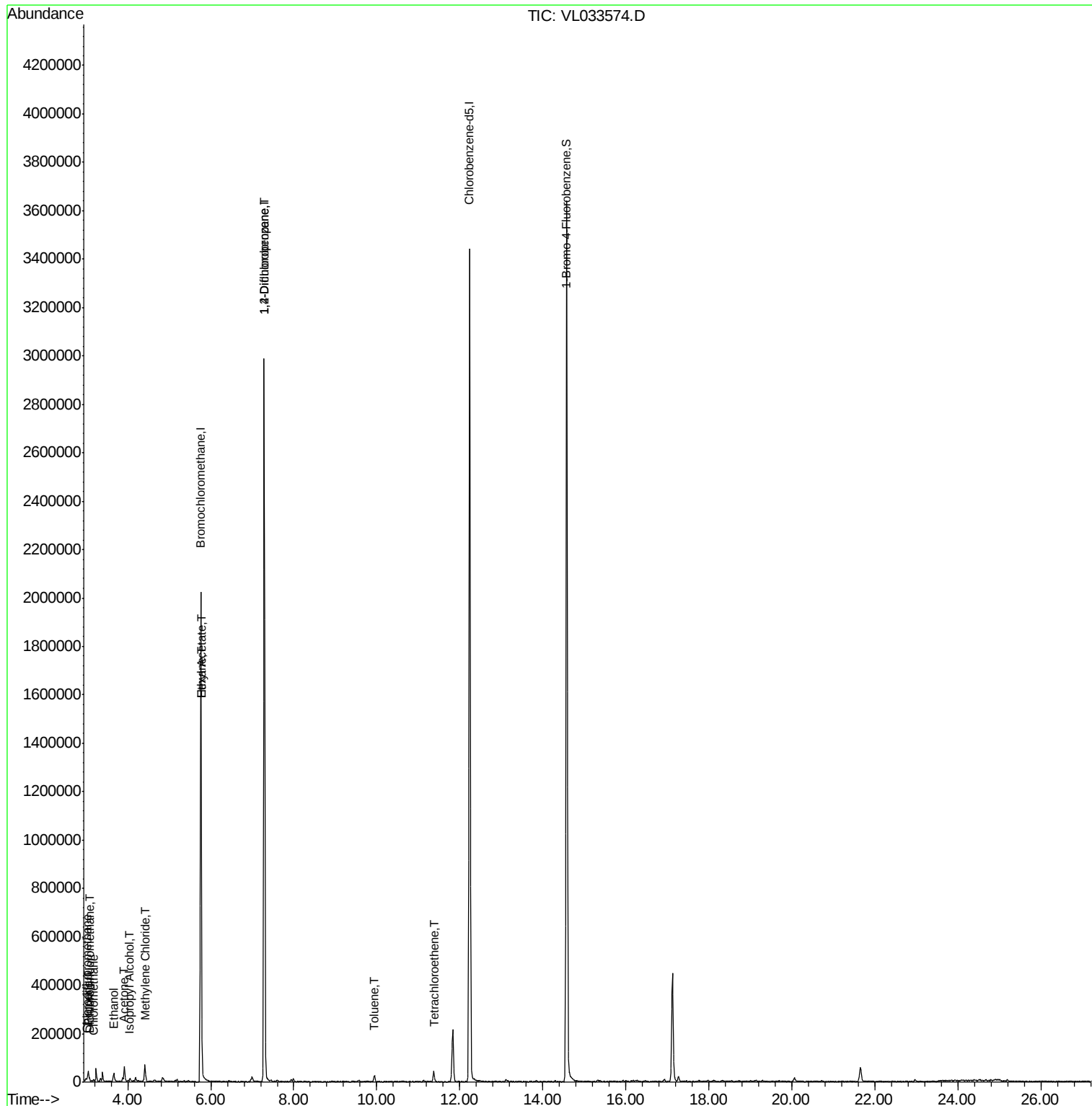
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	7630	0.058	ppbv	94
3) Chlorodifluoromethane	3.02	51	17750	0.171	ppbv #	82
4) Chloromethane	3.17	50	3196	0.058	ppbv #	84
9) Propene	3.05	41	10194	0.234	ppbv	95
13) Ethanol	3.66	45	15386	1.365	ppbv #	18
15) Acetone	3.91	43	59865	0.553	ppbv	95
19) Isopropyl Alcohol	4.04	45	3298	0.048	ppbv #	95
20) Methylene Chloride	4.40	84	8020	0.174	ppbv	86
25) Ethyl Acetate	5.78	43	6391	0.032	ppbv #	76
26) Hexane	5.78	57	6157	0.069	ppbv #	37
39) 1,2-Dichloropropane	7.29	63	547084	7.810	ppbv #	23
52) Tetrachloroethene	11.37	164	4856	0.072	ppbv #	66
53) Toluene	9.94	91	12134	0.058	ppbv #	51

(#) = 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: VL033574.D

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ClientSampleId :

IA1DL

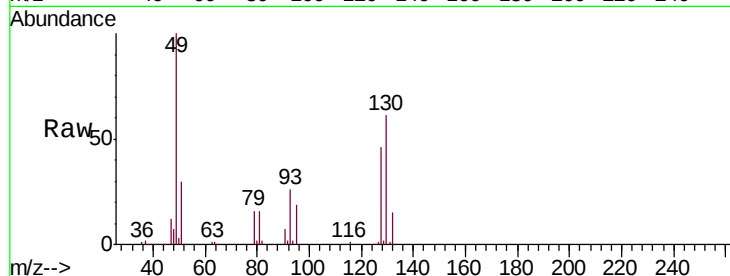
Tgt Ion: 49 Resp: 901049

Ion Ratio Lower Upper

49 100

128 49.6 24.0 72.0

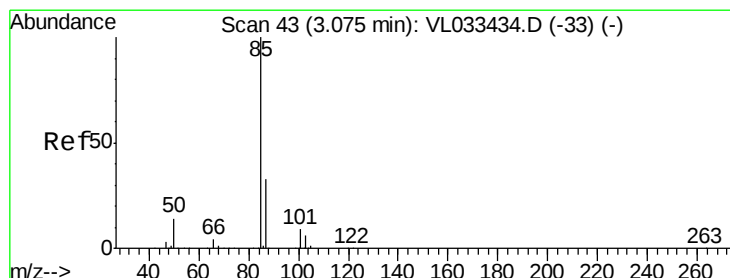
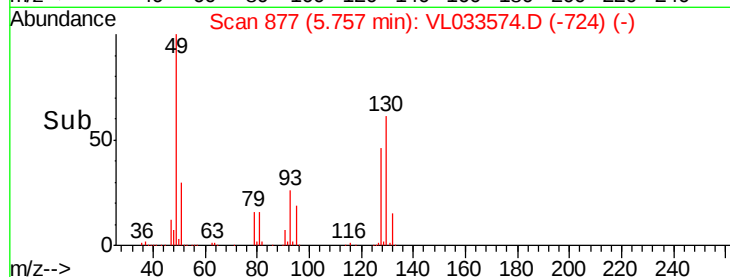
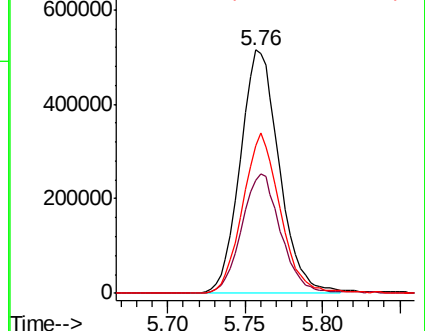
130 64.1 31.2 93.6



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: 0.058 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033574.D

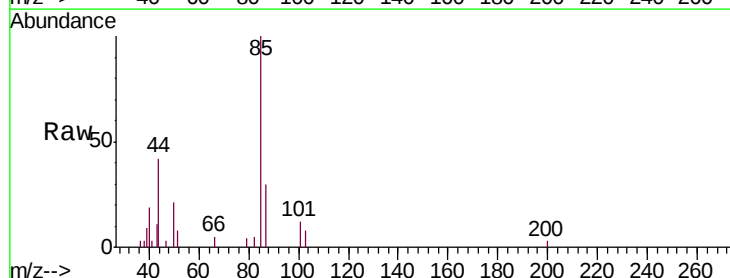
Acq: 10 Apr 2019 21:37

Tgt Ion: 85 Resp: 7630

Ion Ratio Lower Upper

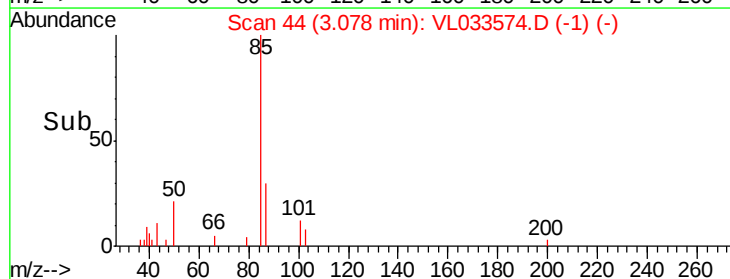
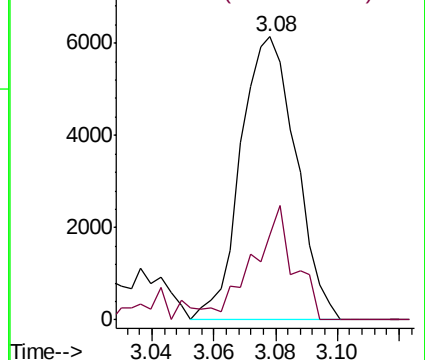
85 100

87 30.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.171 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

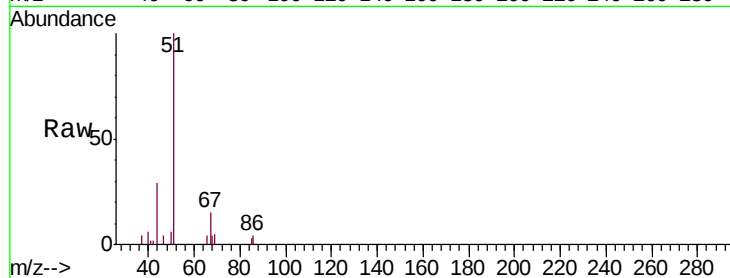
IA1DL

Tgt Ion: 51 Resp: 17750

Ion Ratio Lower Upper

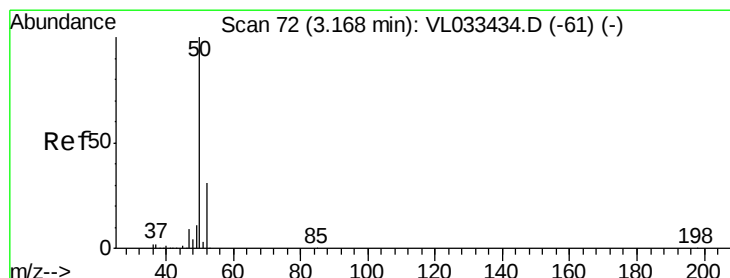
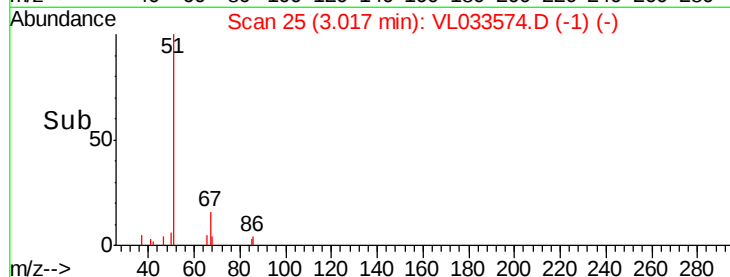
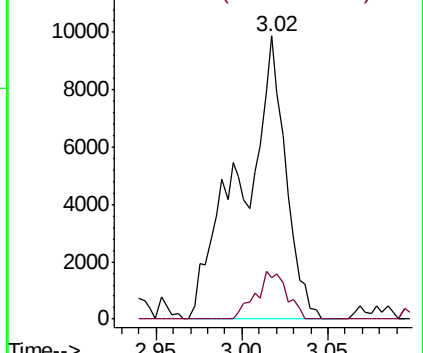
51 100

67 11.6 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.058 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033574.D

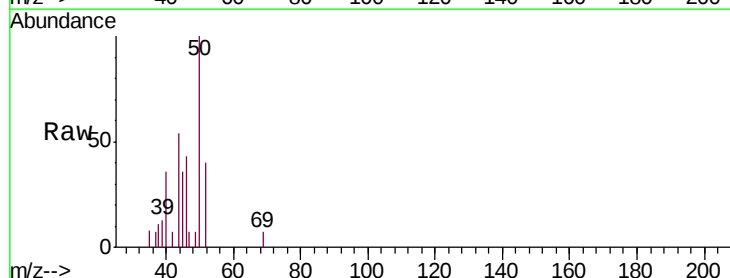
Acq: 10 Apr 2019 21:37

Tgt Ion: 50 Resp: 3196

Ion Ratio Lower Upper

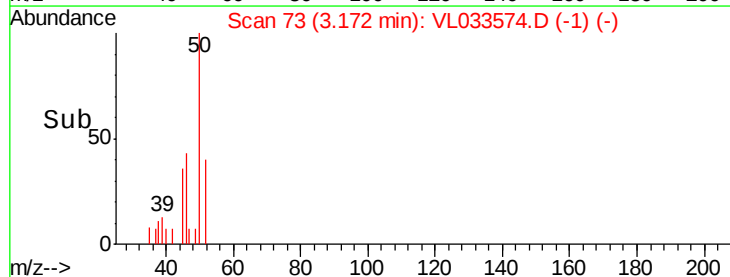
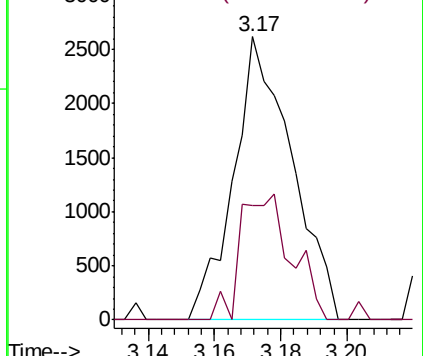
50 100

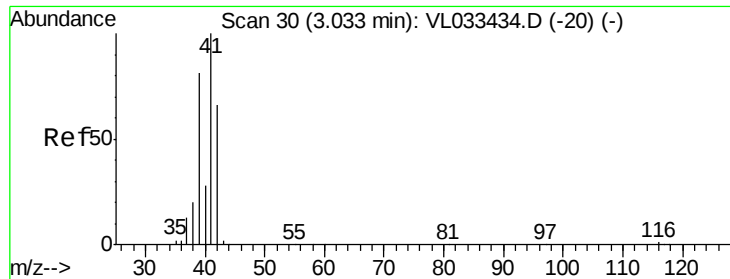
52 40.3 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.234 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

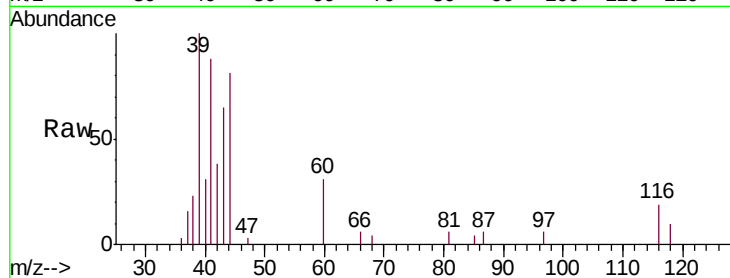
IA1DL

Tgt Ion: 41 Resp: 10194

Ion Ratio Lower Upper

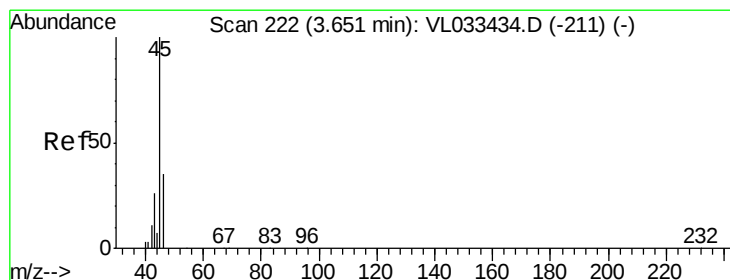
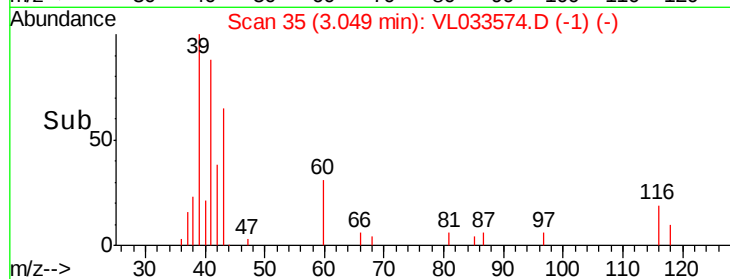
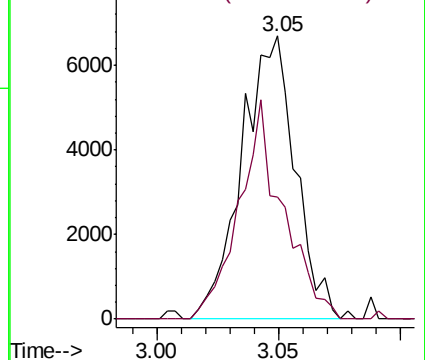
41 100

42 63.6 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: 1.365 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033574.D

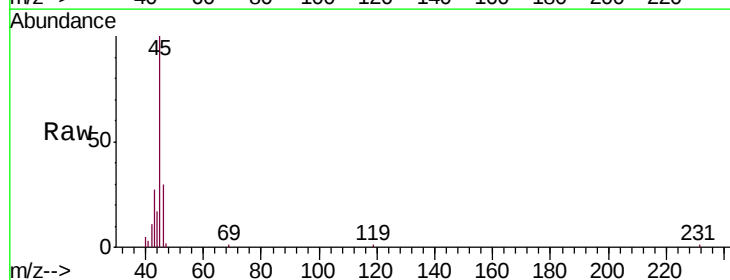
Acq: 10 Apr 2019 21:37

Tgt Ion: 45 Resp: 15386

Ion Ratio Lower Upper

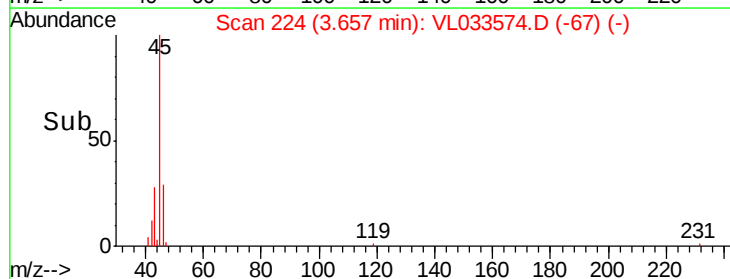
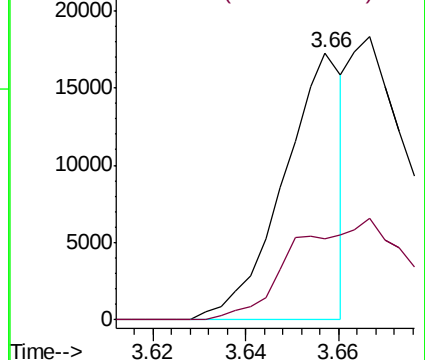
45 100

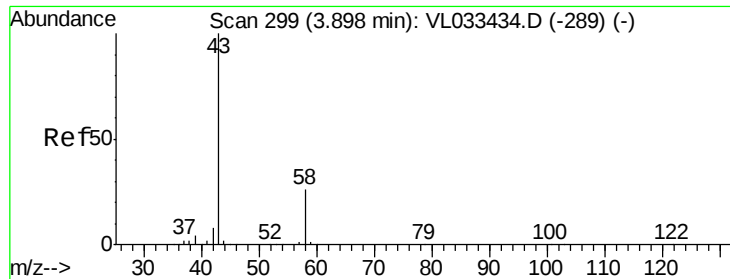
46 0.0 25.4 101.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.553 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

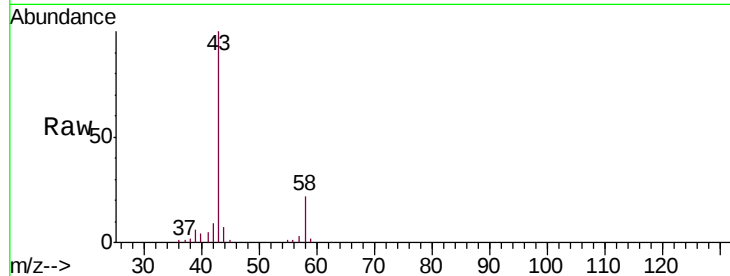
IA1DL

Tgt Ion: 43 Resp: 59865

Ion Ratio Lower Upper

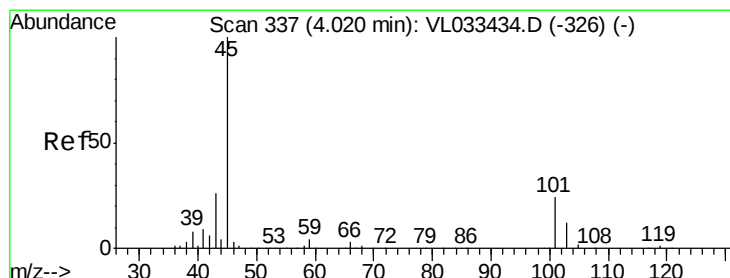
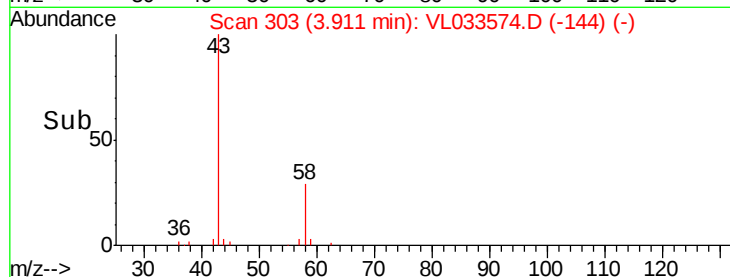
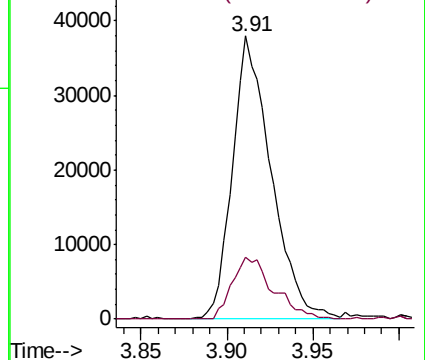
43 100

58 23.2 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.048 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033574.D

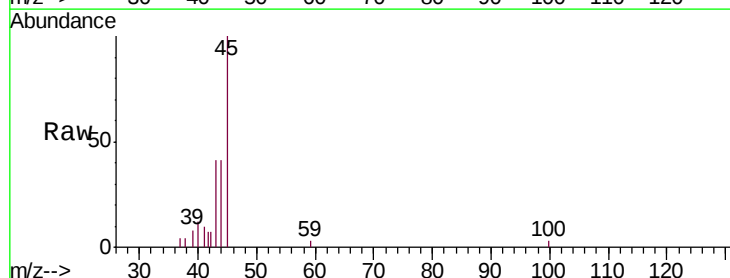
Acq: 10 Apr 2019 21:37

Tgt Ion: 45 Resp: 3298

Ion Ratio Lower Upper

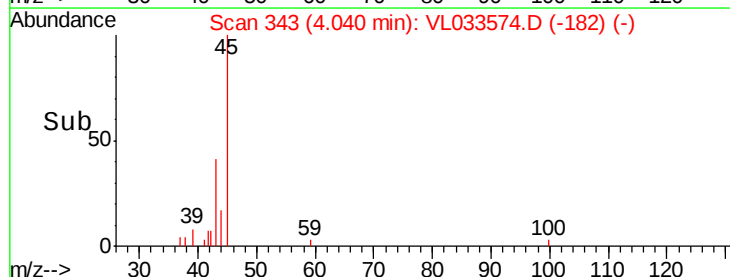
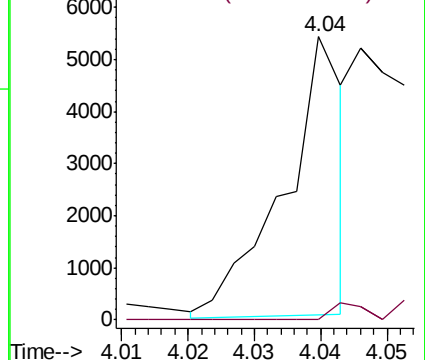
45 100

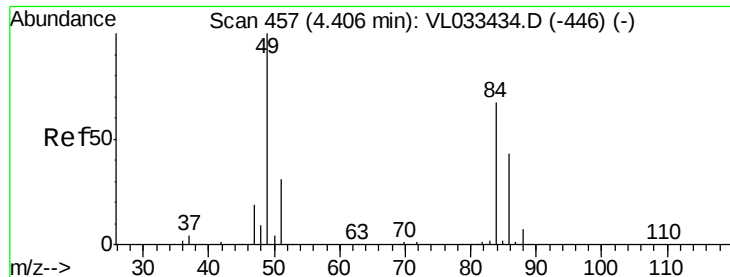
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

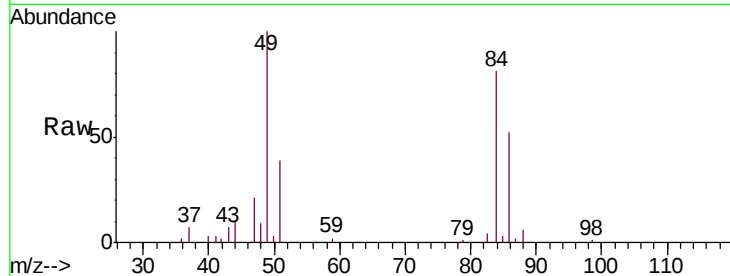




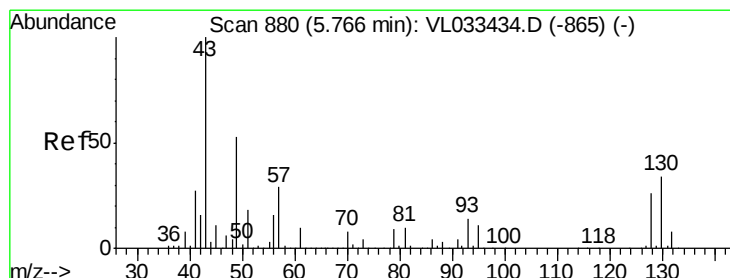
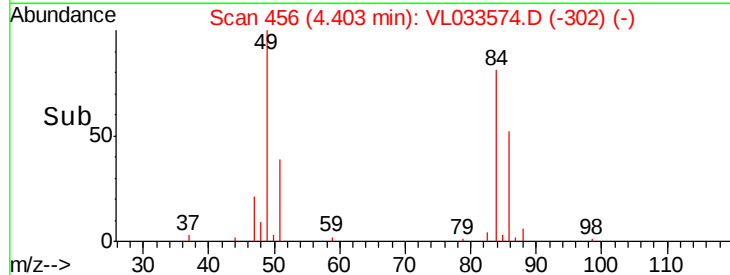
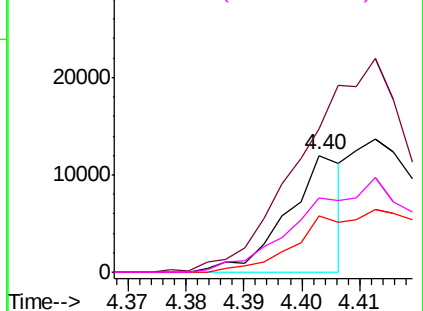
#20
Methylene Chloride
Concen: 0.174 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033574.D
Acq: 10 Apr 2019 21:37

Instrument :
MSVOA_L
ClientSampleID :
IA1DL

Tgt Ion:	84	Resp:	8020
Ion	Ratio	Lower	Upper
84	100		
49	121.8	120.0	180.0
51	48.3	36.7	55.1
86	64.0	51.9	77.9

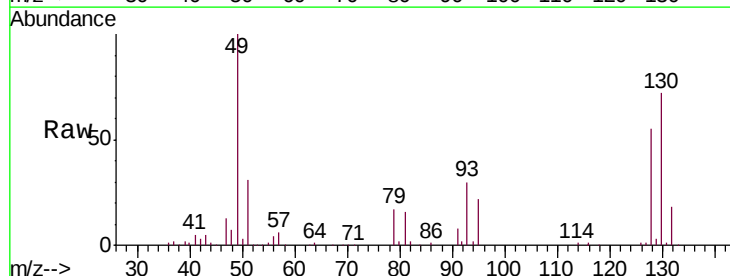


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

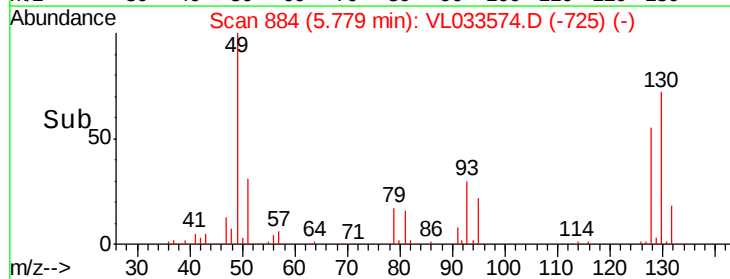
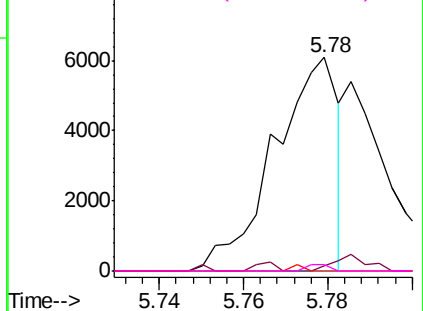


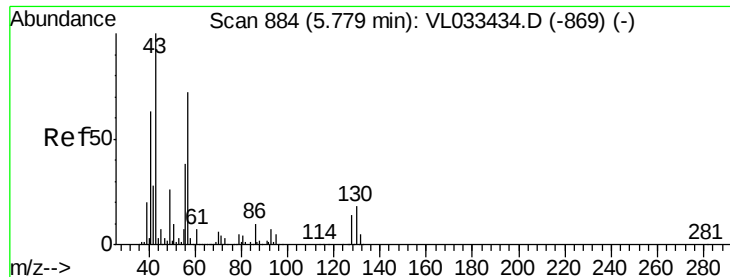
#25
Ethyl Acetate
Concen: 0.032 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033574.D
Acq: 10 Apr 2019 21:37

Tgt Ion:	43	Resp:	6391
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.6	7.3	10.9#
70	0.0	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

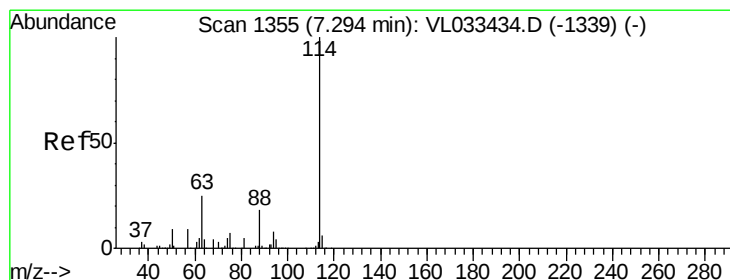
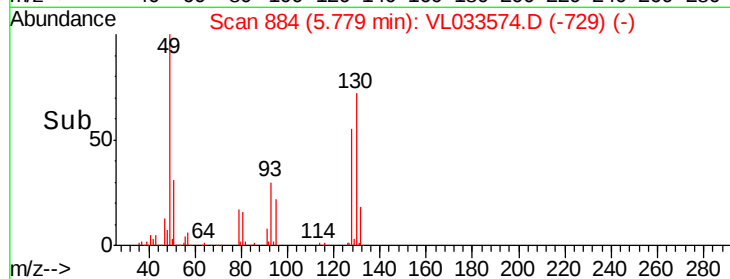
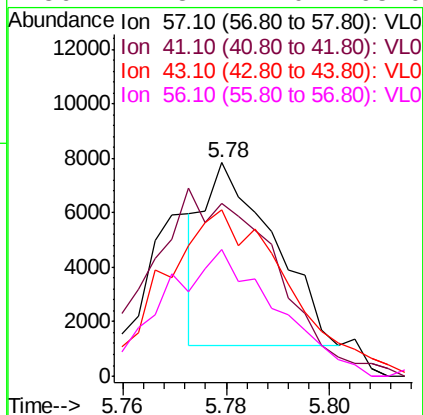
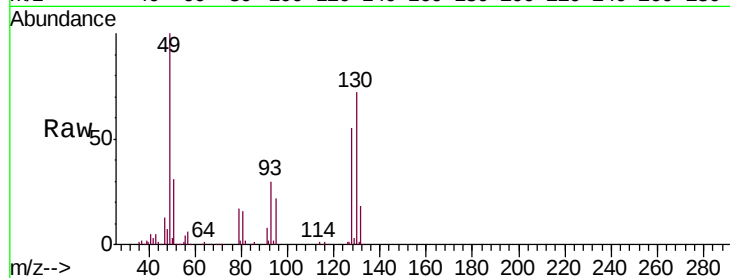




#26
Hexane
Concen: 0.069 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033574.D
Acq: 10 Apr 2019 21:37

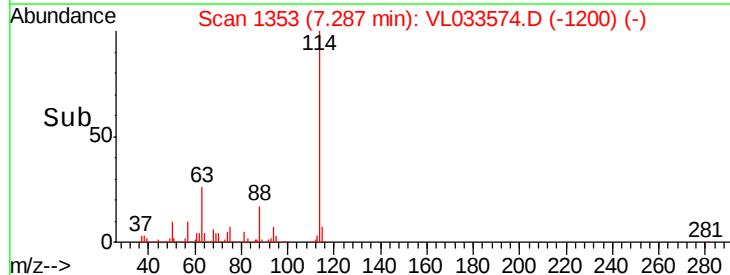
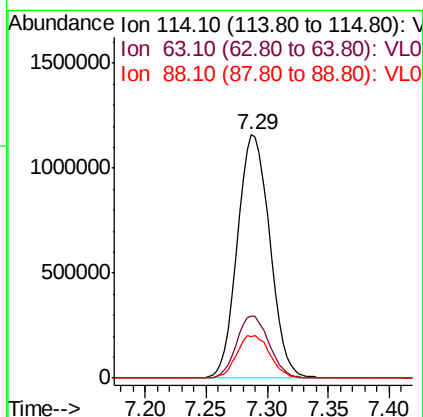
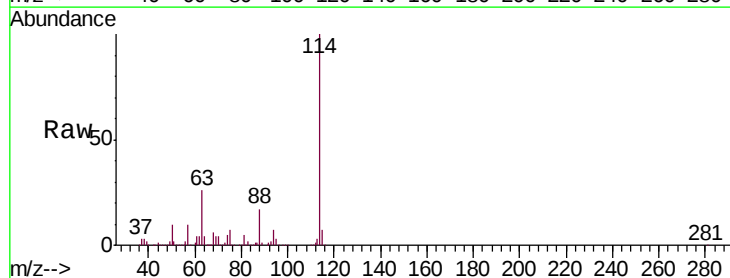
Instrument :
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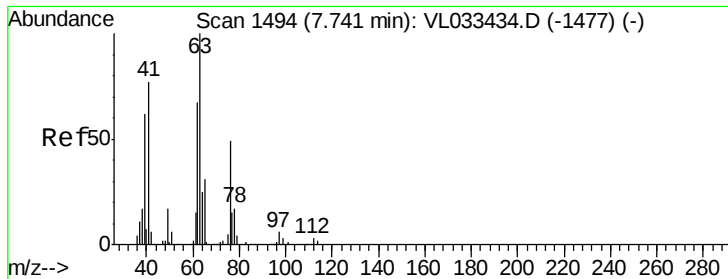
Tgt Ion: 57 Resp: 6157
Ion Ratio Lower Upper
57 100
41 195.7 70.7 106.1#
43 169.6 182.6 274.0#
56 117.8 42.0 63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033574.D
Acq: 10 Apr 2019 21:37

Tgt Ion: 114 Resp: 2131117
Ion Ratio Lower Upper
114 100
63 25.8 21.5 32.3
88 17.9 14.5 21.7





#39

1,2-Dichloropropane

Concen: 7.810 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

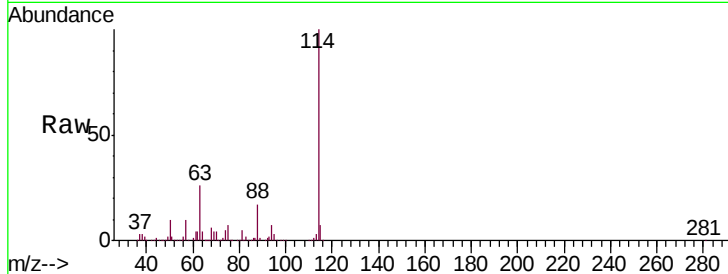
Tgt Ion: 63 Resp: 547084

Ion Ratio Lower Upper

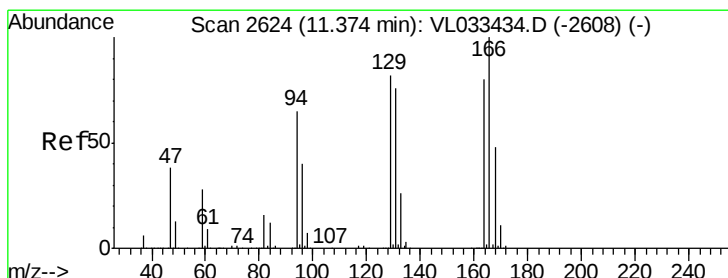
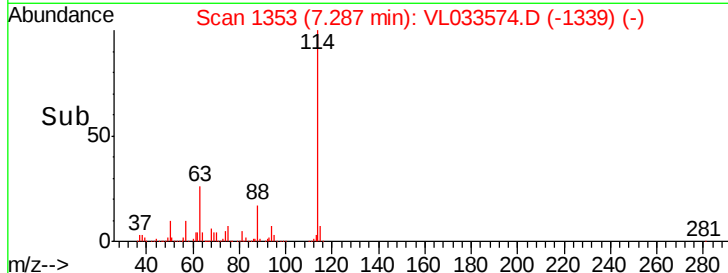
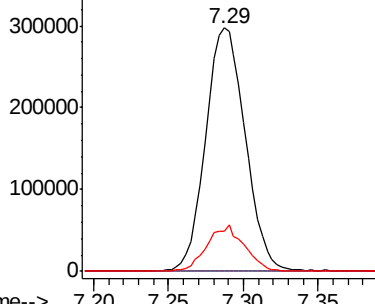
63 100

41 0.0 61.2 91.8#

62 16.2 54.0 81.0#



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: 0.072 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Tgt Ion: 164 Resp: 4856

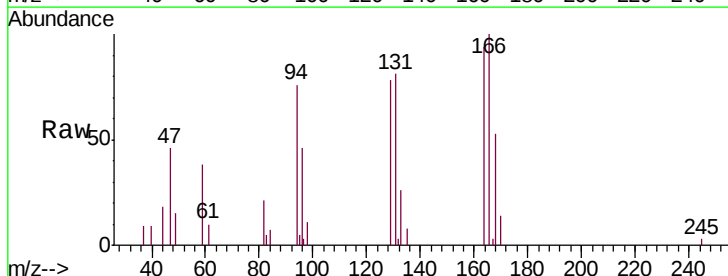
Ion Ratio Lower Upper

164 100

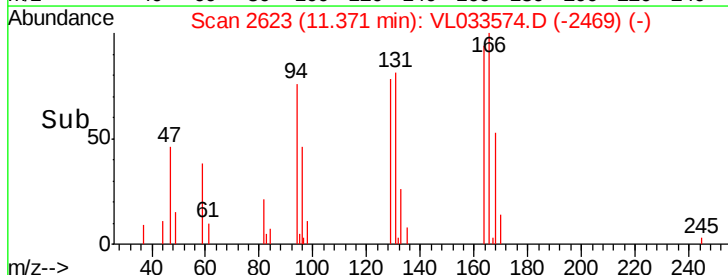
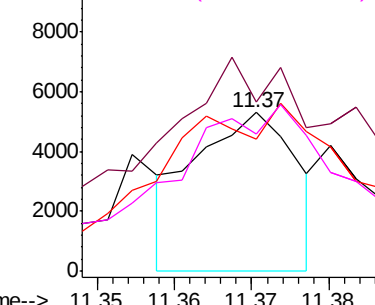
166 65.8 99.5 149.3#

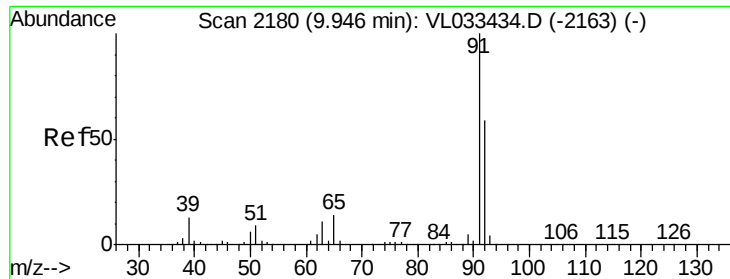
129 66.4 81.4 122.2#

131 86.3 75.6 113.4



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: 0.058 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

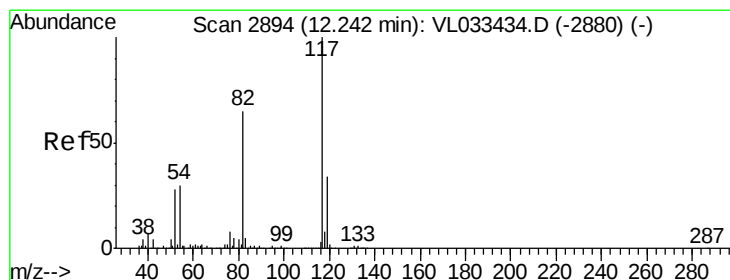
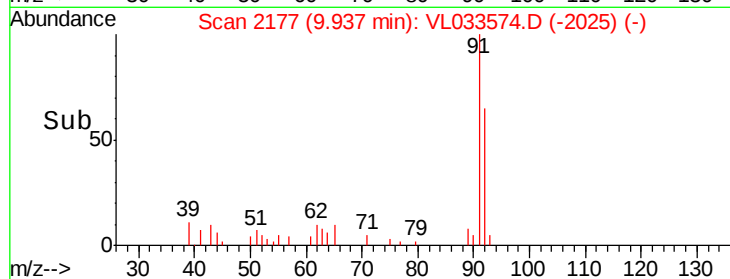
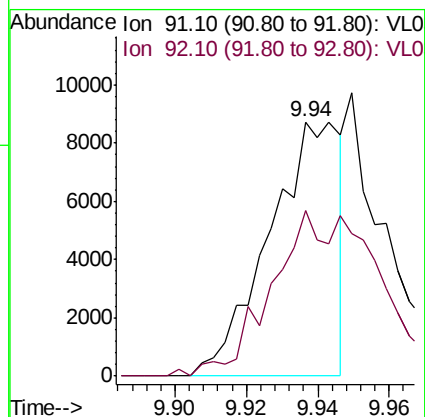
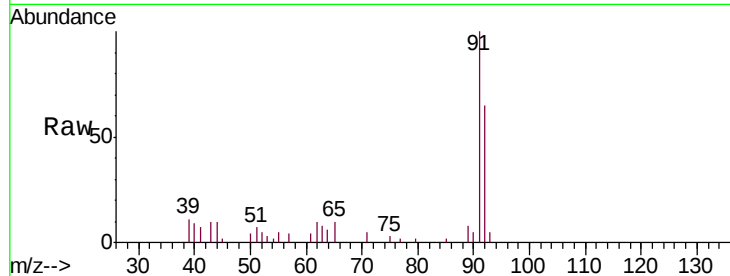
IA1DL

Tgt Ion: 91 Resp: 12134

Ion Ratio Lower Upper

91 100

92 96.2 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

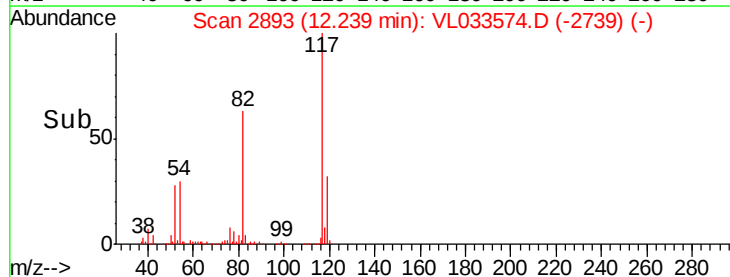
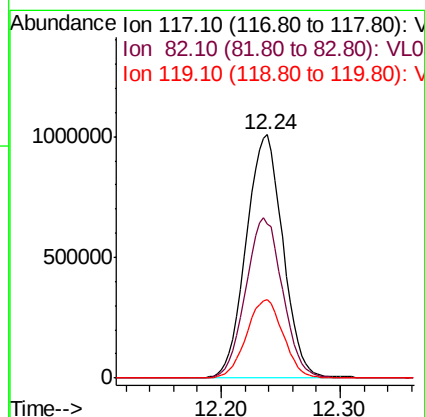
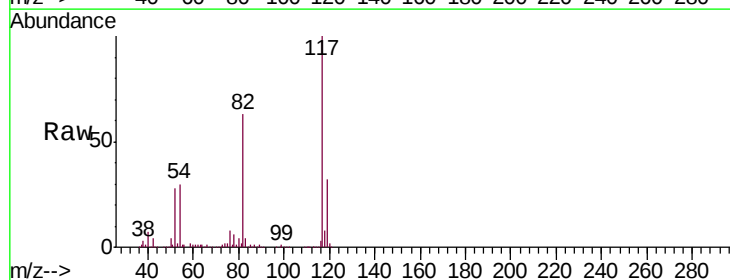
Tgt Ion: 117 Resp: 2155612

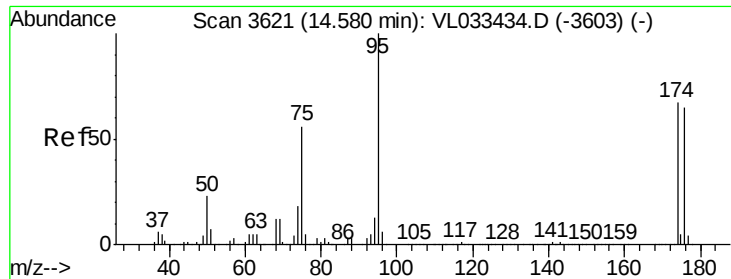
Ion Ratio Lower Upper

117 100

82 66.3 51.5 77.3

119 32.5 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.052 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033574.D

Acq: 10 Apr 2019 21:37

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 95 Resp: 1698646

Ion Ratio Lower Upper

95 100

174 67.4 52.9 79.3

175 4.8 3.8 5.6

