

Data File : VL032938.D
Acq On : 7 Dec 2018 17:12
Operator : SY/AP
Sample : J6262-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Quant Time: Dec 08 02:01:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1385706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3471509	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3266286	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2481296	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds

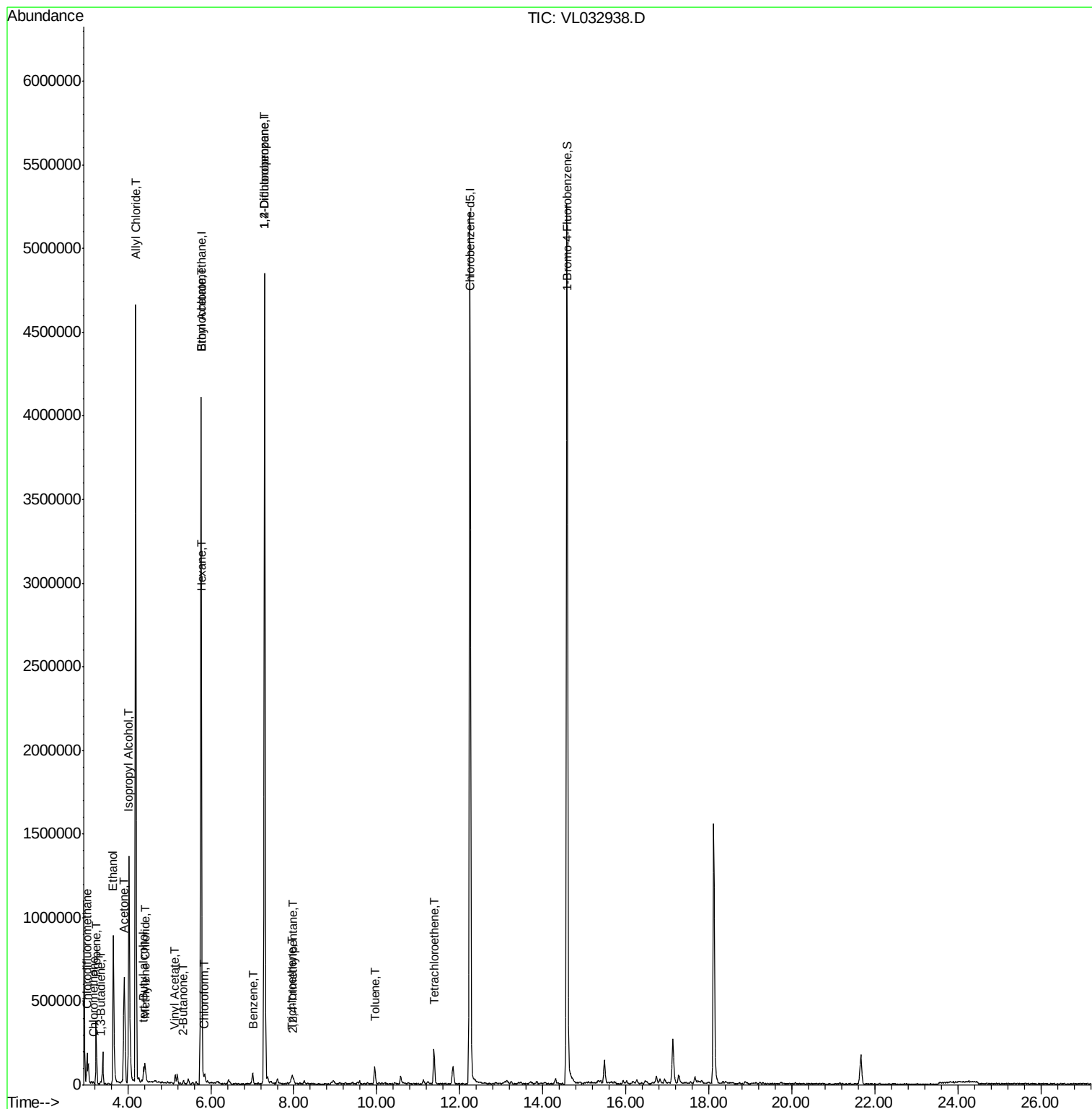
						Qvalue
3) Chlorodifluoromethane	3.02	51	164658	1.569	ppbv	97
4) Chloromethane	3.17	50	10696	0.175	ppbv	90
9) Propene	3.24	41	84128	2.027	ppbv	96
13) Ethanol	3.65	45	948961	66.419	ppbv	97
15) Acetone	3.91	43	709517	5.965	ppbv	93
16) 1,3-Butadiene	3.35	39	5195	0.110	ppbv #	61
17) tert-Butyl alcohol	4.37	59	4864	0.161	ppbv #	98
19) Isopropyl Alcohol	4.03	45	1598996	21.407	ppbv #	99
20) Methylene Chloride	4.41	84	36880	0.634	ppbv #	93
21) Allyl Chloride	4.19	41	1365291	14.086	ppbv #	48
23) Vinyl Acetate	5.15	43	13379	0.066	ppbv #	45
25) Ethyl Acetate	5.77	43	964925	3.434	ppbv #	90
26) Hexane	5.79	57	35627	0.275	ppbv #	1
29) Chloroform	5.85	83	14433	0.062	ppbv	100
34) 2-Butanone	5.34	43	24126	0.160	ppbv	95
36) Benzene	7.01	78	45864	0.180	ppbv #	92
38) Trichloroethene	7.96	130	6615	0.062	ppbv #	71
39) 1,2-Dichloropropane	7.29	63	842782	8.703	ppbv #	22
44) 2,2,4-Trimethylpentane	7.99	57	15523	0.036	ppbv #	55
52) Tetrachloroethene	11.38	164	47381	0.510	ppbv	88
53) Toluene	9.94	91	26628	0.098	ppbv #	21

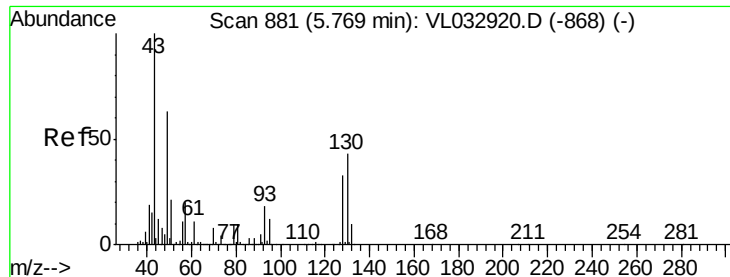
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

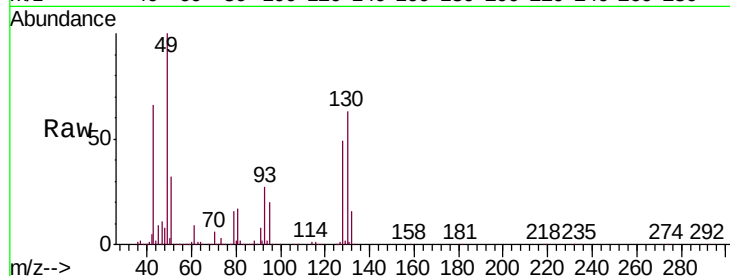
Tgt Ion: 49 Resp: 1385706

Ion Ratio Lower Upper

49 100

128 51.9 26.3 78.8

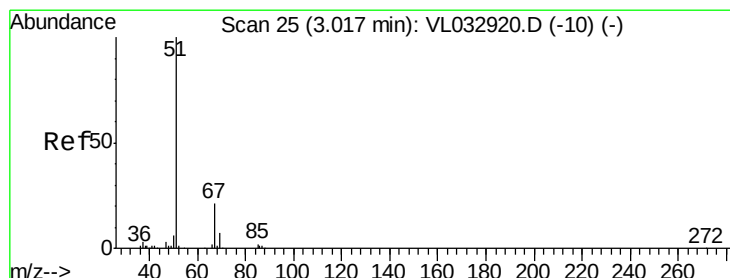
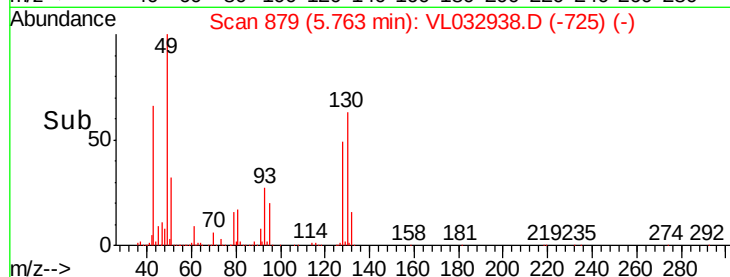
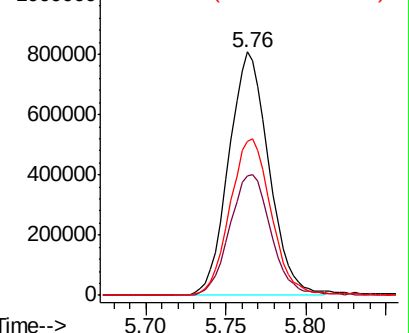
130 67.0 33.9 101.7



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



#3

Chlorodifluoromethane

Concen: 1.569 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032938.D

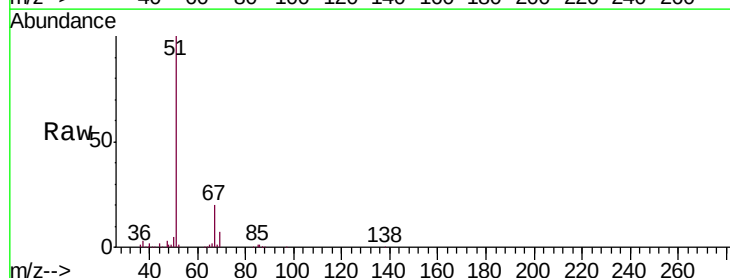
Acq: 7 Dec 2018 17:12

Tgt Ion: 51 Resp: 164658

Ion Ratio Lower Upper

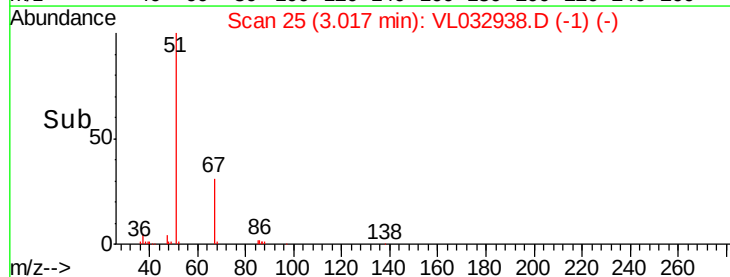
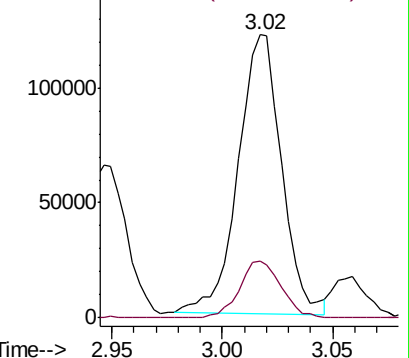
51 100

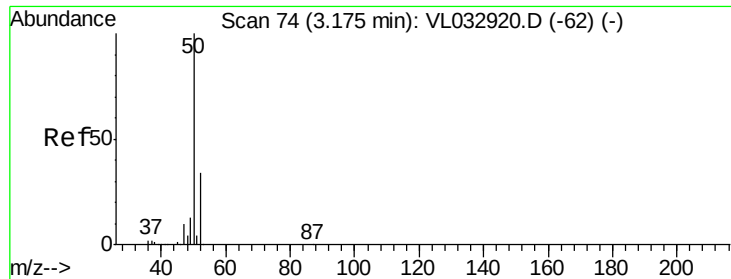
67 19.7 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.175 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

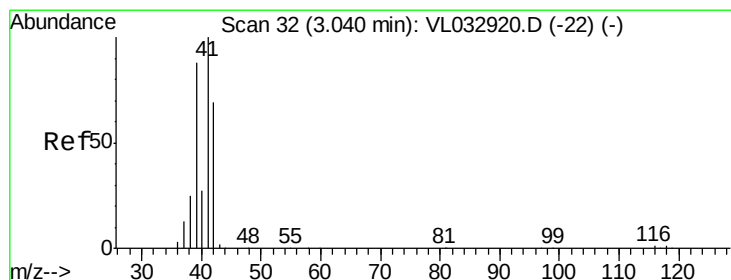
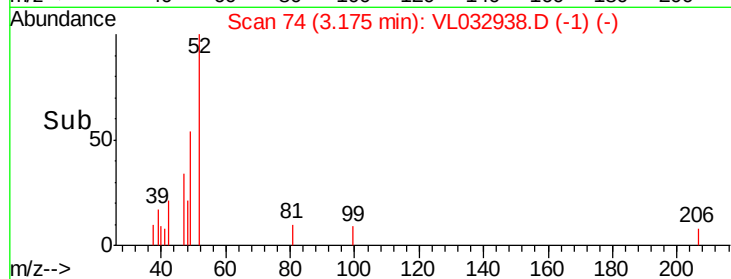
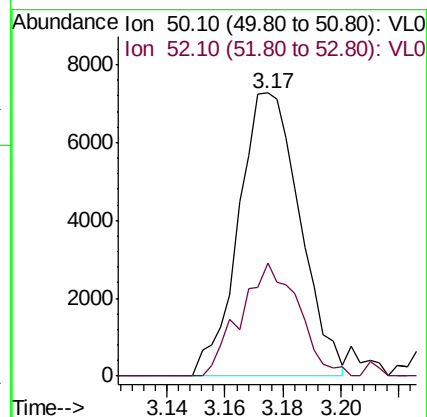
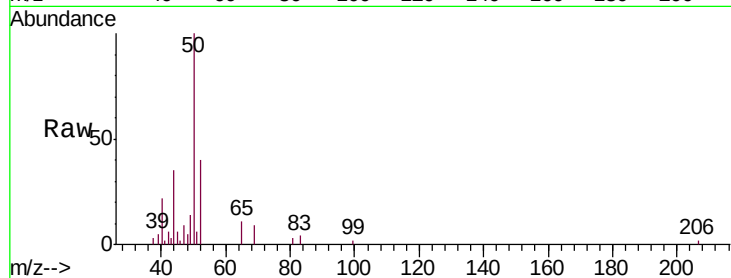
IA2DL

Tgt Ion: 50 Resp: 10696

Ion Ratio Lower Upper

50 100

52 39.8 27.3 40.9



#9

Propene

Concen: 2.027 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL032938.D

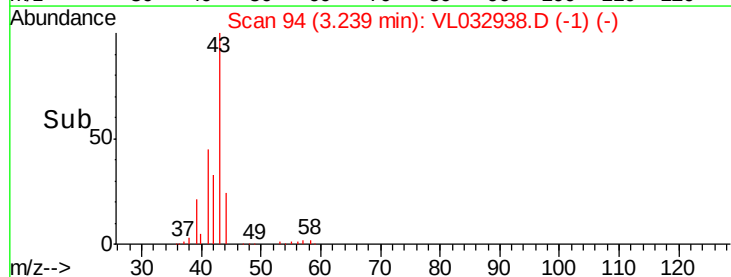
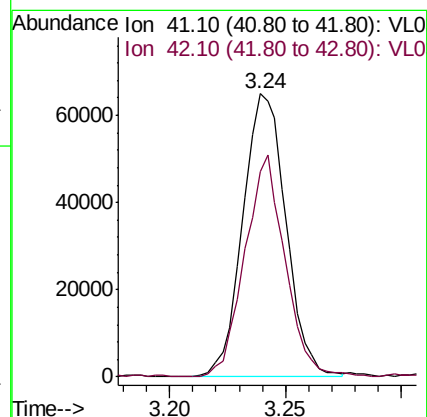
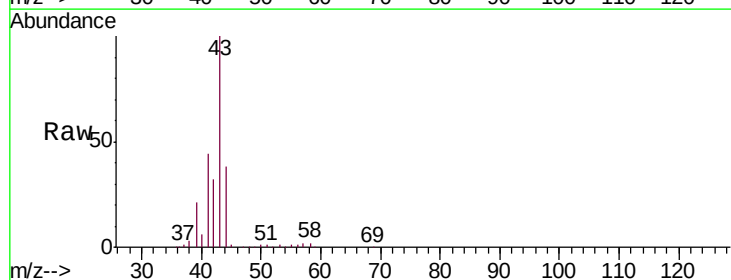
Acq: 7 Dec 2018 17:12

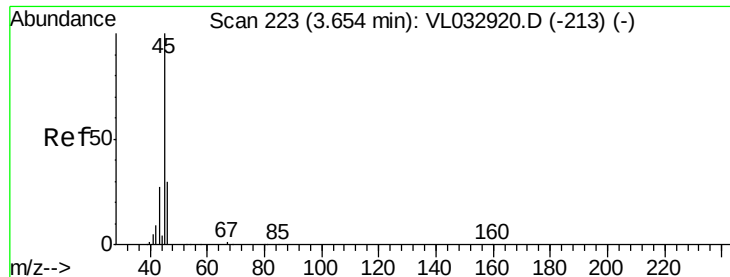
Tgt Ion: 41 Resp: 84128

Ion Ratio Lower Upper

41 100

42 73.4 56.2 84.2





#13

Ethanol

Concen: 66.419 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

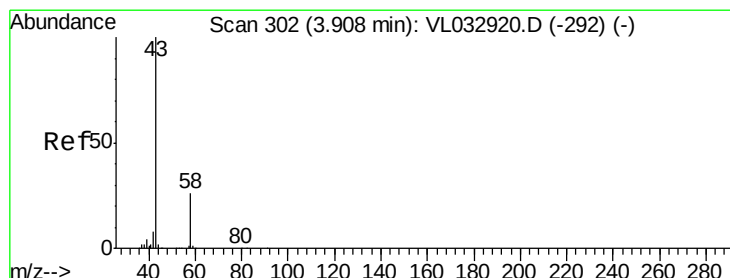
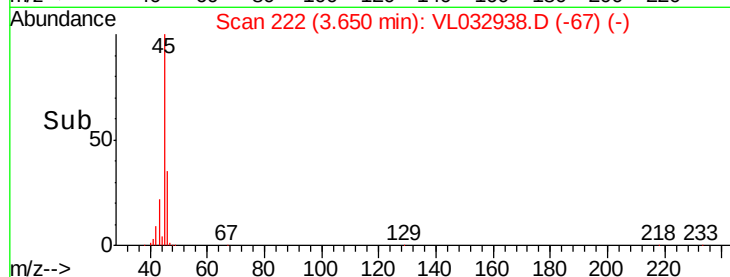
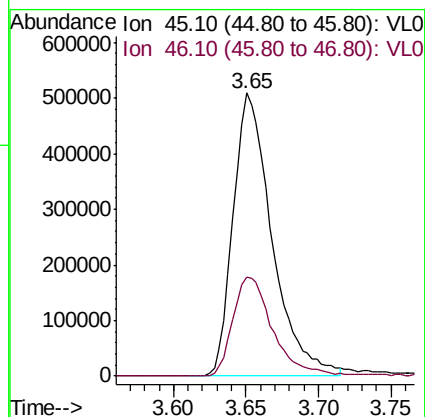
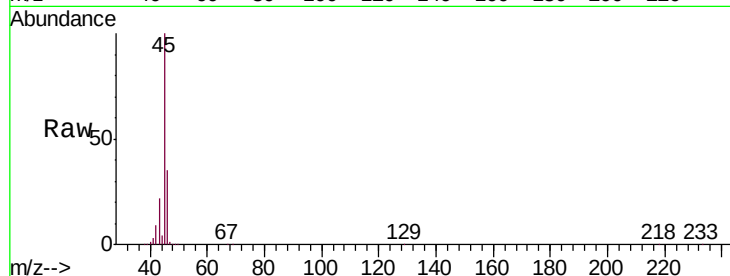
IA2DL

Tgt Ion: 45 Resp: 948961

Ion Ratio Lower Upper

45 100

46 36.2 13.8 55.4



#15

Acetone

Concen: 5.965 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032938.D

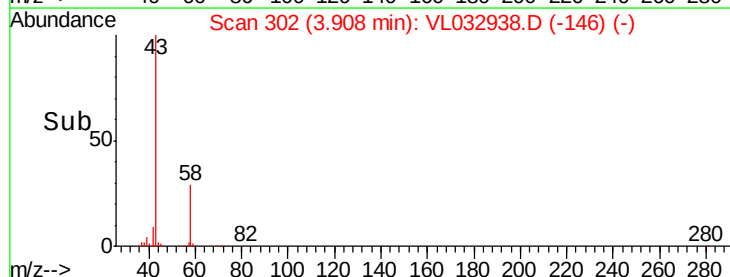
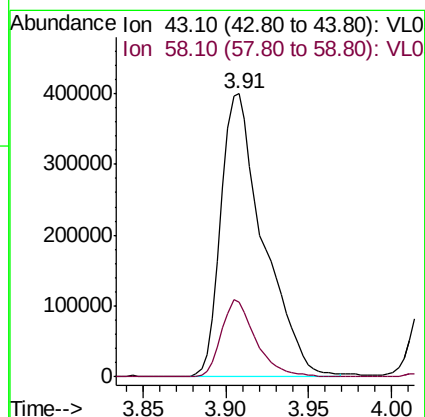
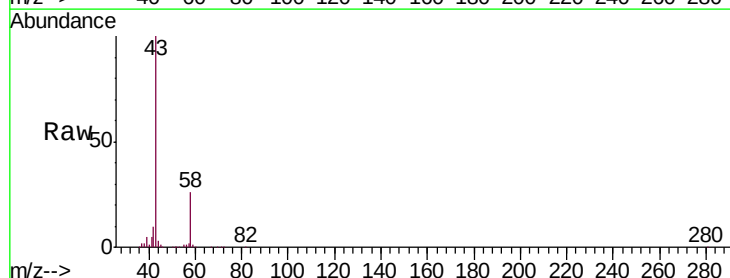
Acq: 7 Dec 2018 17:12

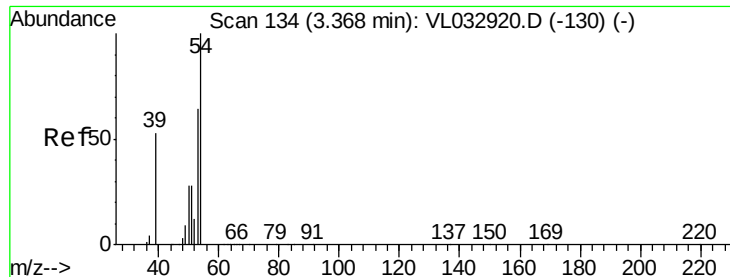
Tgt Ion: 43 Resp: 709517

Ion Ratio Lower Upper

43 100

58 22.3 20.6 30.8

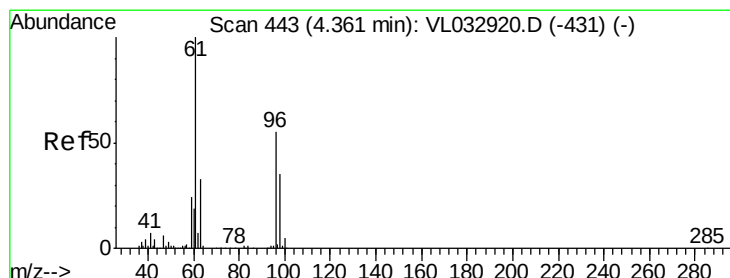
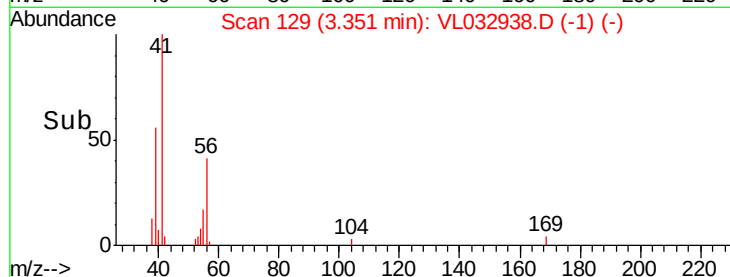
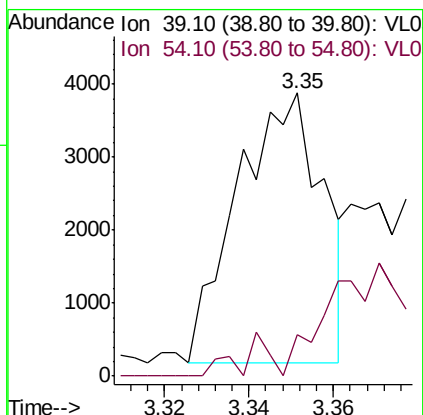
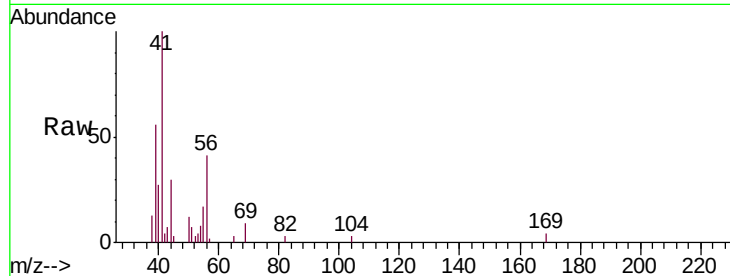




#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 3.35 min Scan# 129
Delta R.T. -0.02 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

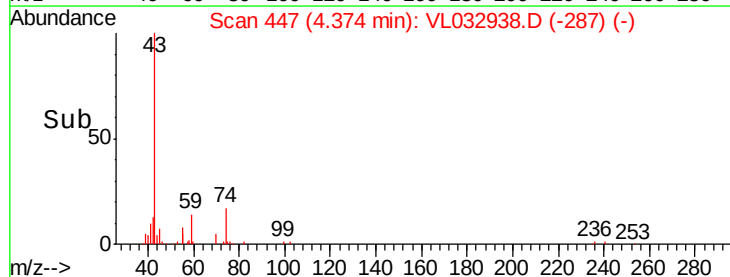
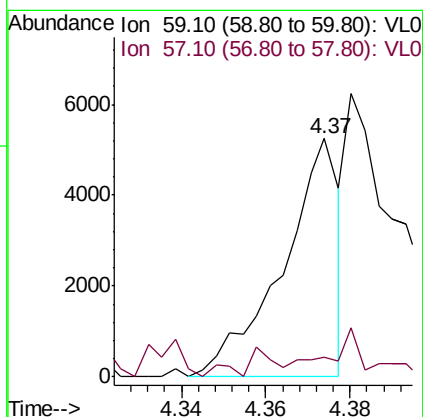
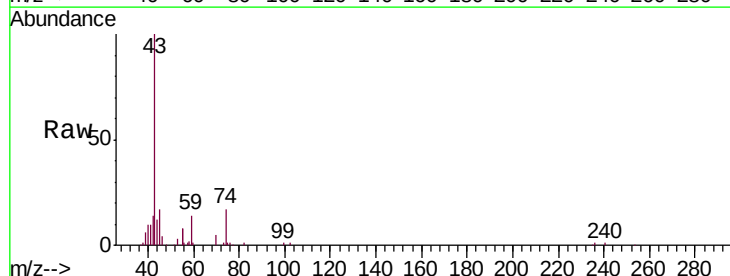
Instrument :
MSVOA_L
ClientSampled :
IA2DL

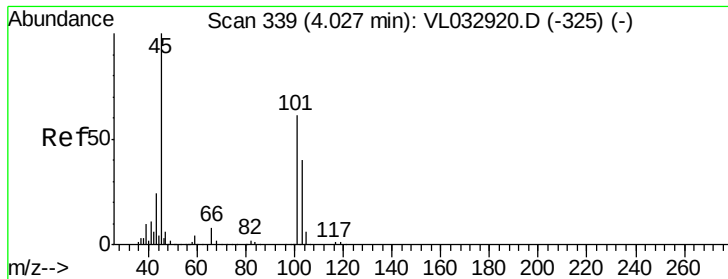
Tgt Ion: 39 Resp: 5195
Ion Ratio Lower Upper
39 100
54 54.1 72.7 109.1#



#17
tert-Butyl alcohol
Concen: 0.161 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.01 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

Tgt Ion: 59 Resp: 4864
Ion Ratio Lower Upper
59 100
57 0.0 0.6 1.0#



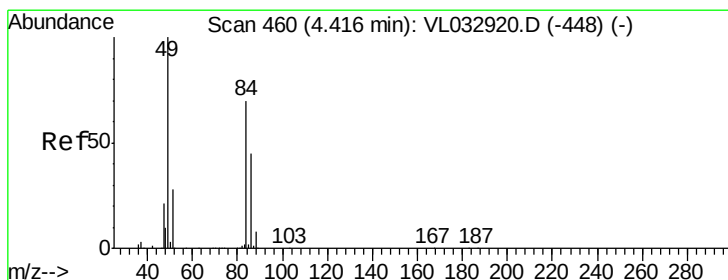
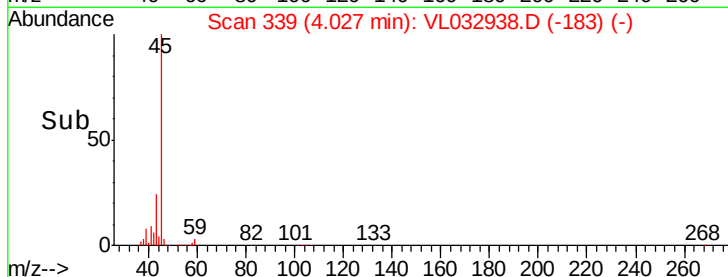
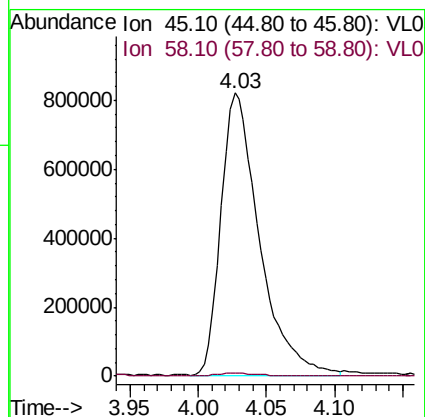
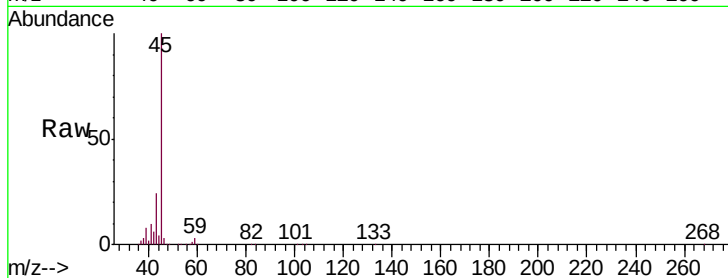


#19

Isopropyl Alcohol
 Concen: 21.407 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL032938.D
 Acq: 7 Dec 2018 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

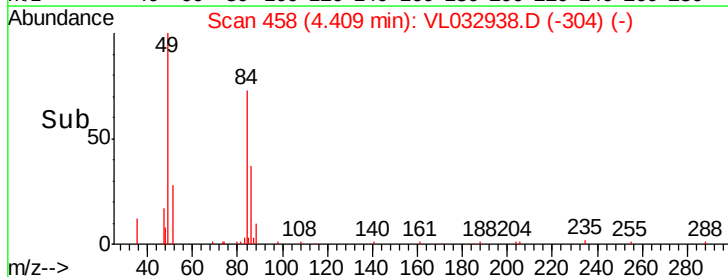
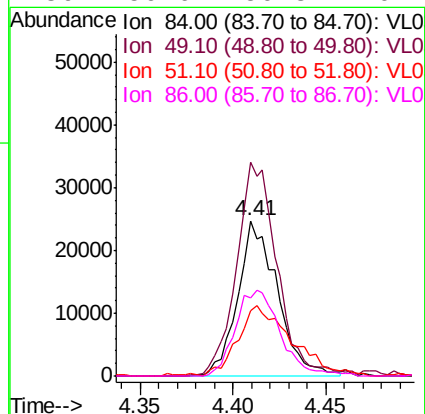
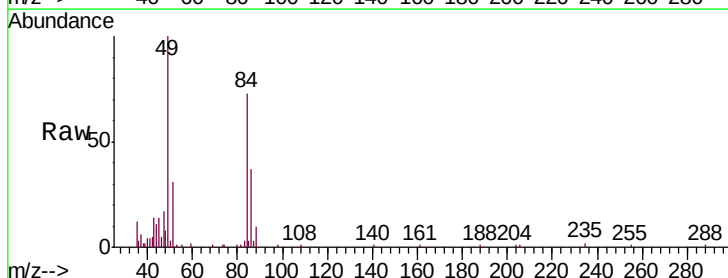
Tgt Ion: 45 Resp: 1598996
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.4 2.2#

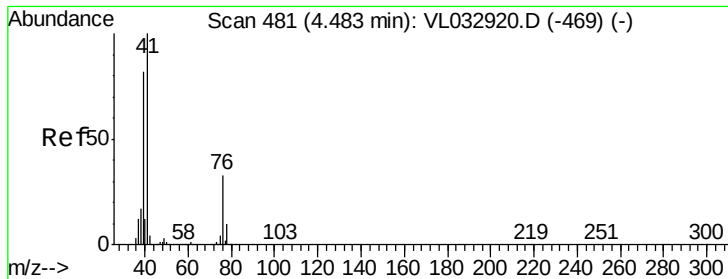


#20

Methylene Chloride
 Concen: 0.634 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: VL032938.D
 Acq: 7 Dec 2018 17:12

Tgt Ion: 84 Resp: 36880
 Ion Ratio Lower Upper
 84 100
 49 136.7 113.8 170.8
 51 40.3 31.8 47.8
 86 50.6 50.8 76.2#





#21

Allyl Chloride

Concen: 14.086 ppbv

RT: 4.19 min Scan# 390

Delta R.T. -0.29 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampled :

IA2DL

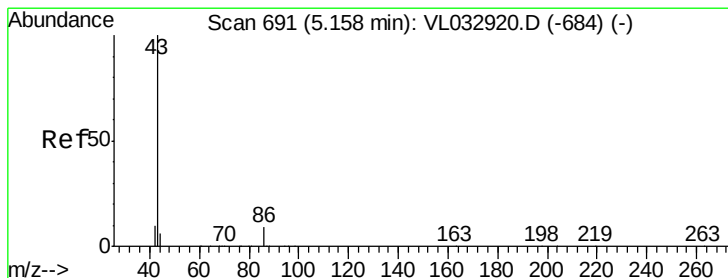
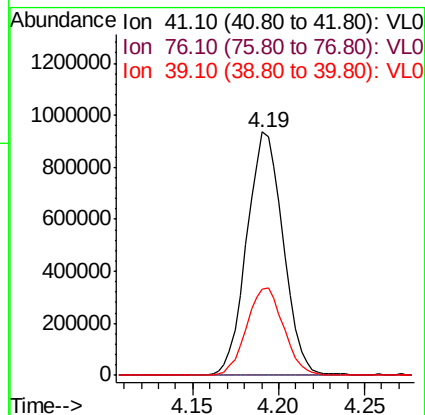
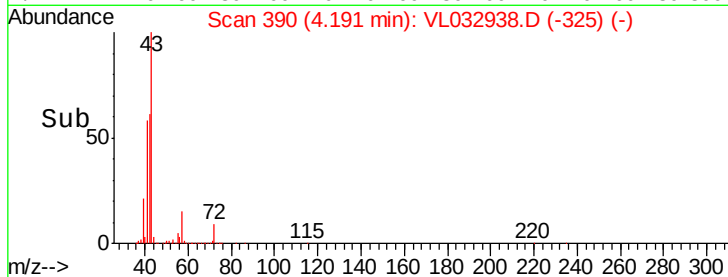
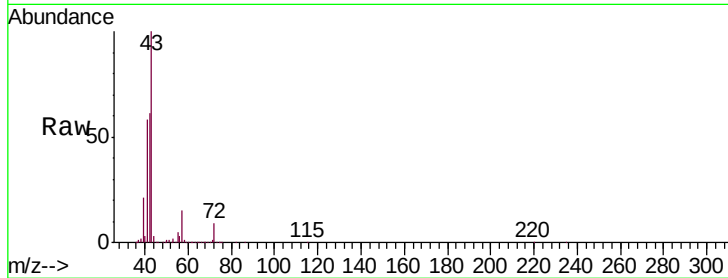
Tgt Ion: 41 Resp: 1365291

Ion Ratio Lower Upper

41 100

76 0.0 25.2 37.8#

39 36.7 65.2 97.8#



#23

Vinyl Acetate

Concen: 0.066 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Tgt Ion: 43 Resp: 13379

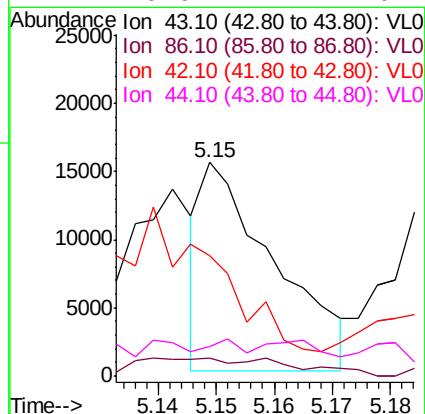
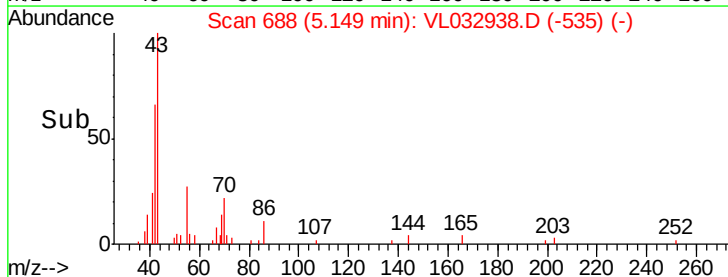
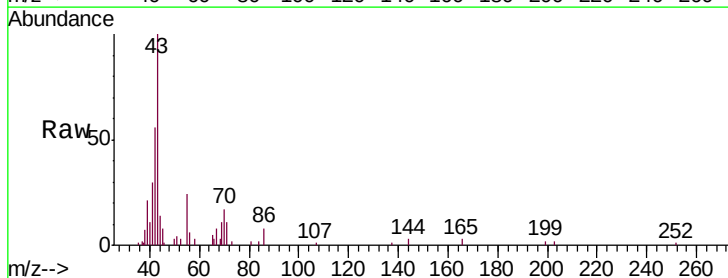
Ion Ratio Lower Upper

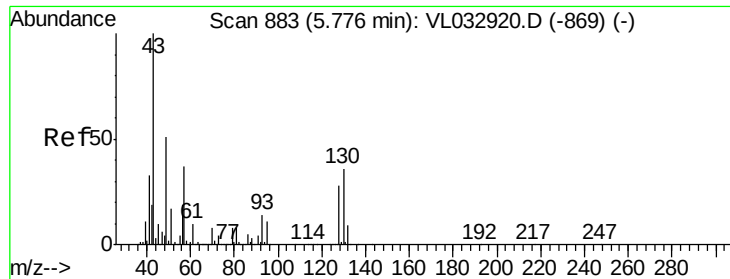
43 100

86 6.9 6.6 9.8

42 55.8 8.3 12.5#

44 6.6 4.2 6.4#

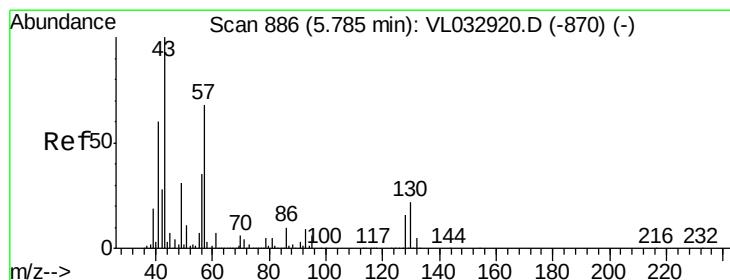
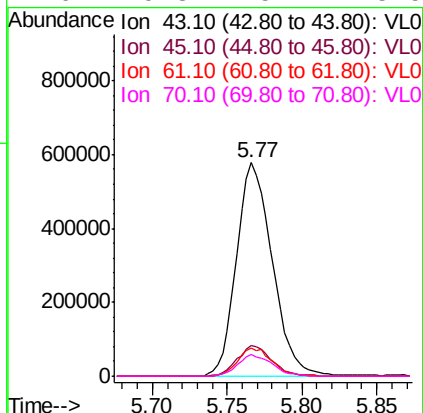
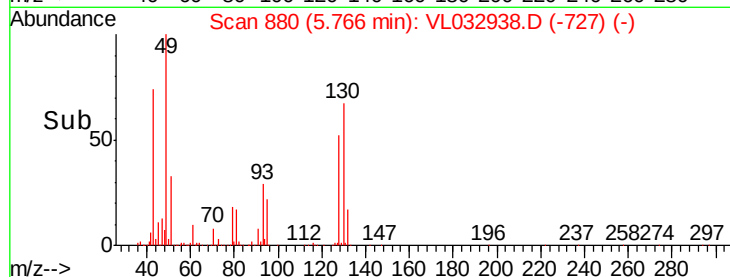
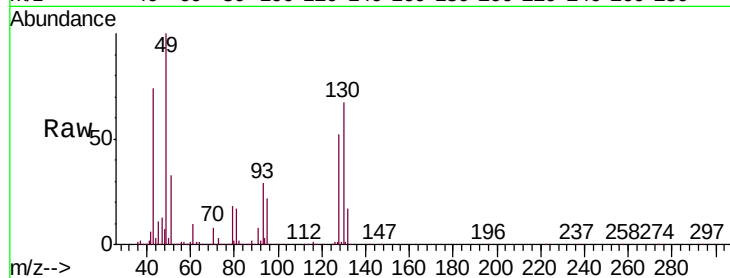




#25
Ethyl Acetate
Concen: 3.434 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.01 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

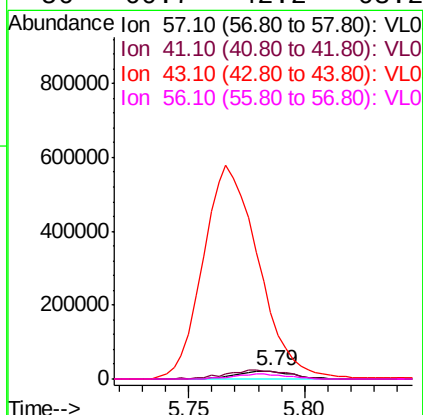
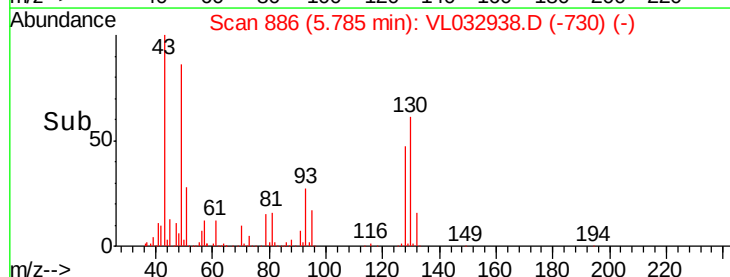
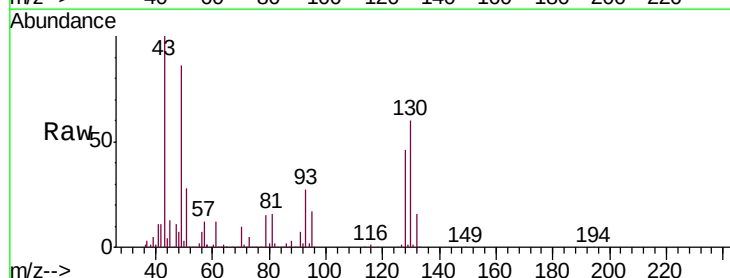
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

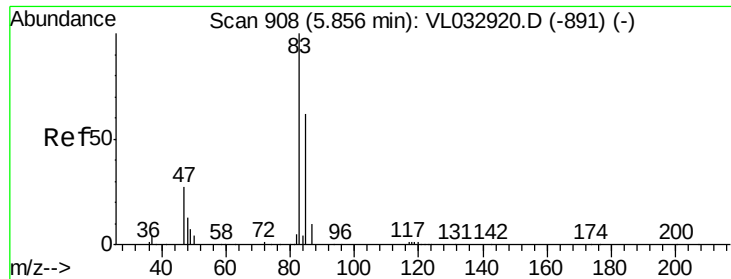
Tgt Ion:	43	Resp:	964925
Ion	Ratio	Lower	Upper
43	100		
45	13.9	7.8	11.6#
61	13.0	7.4	11.2#
70	9.8	5.7	8.5#



#26
Hexane
Concen: 0.275 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

Tgt Ion:	57	Resp:	35627
Ion	Ratio	Lower	Upper
57	100		
41	128.0	72.2	108.2#
43	2738.4	171.9	257.9#
56	60.7	42.2	63.2

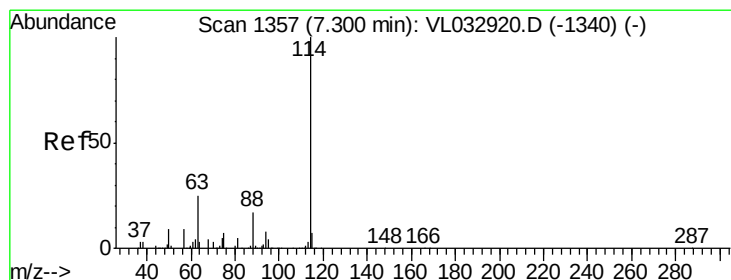
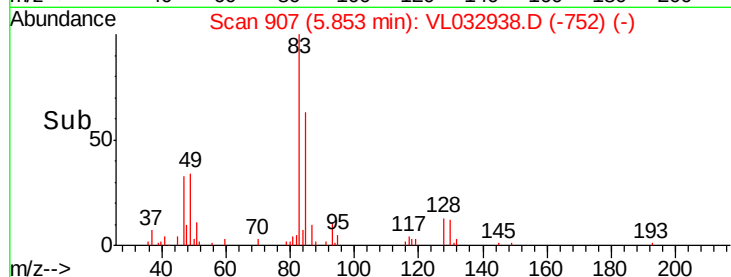
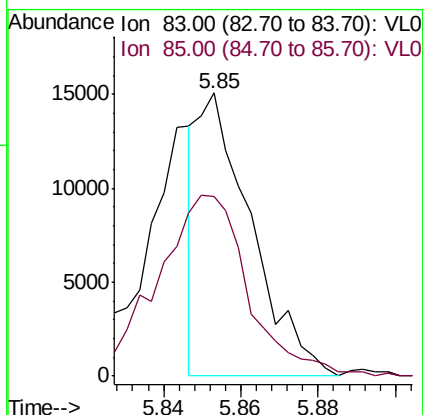
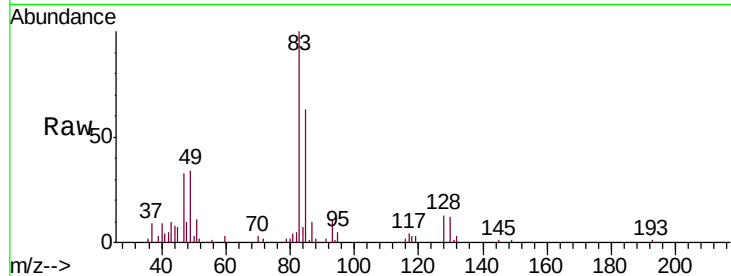




#29
Chloroform
Concen: 0.062 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

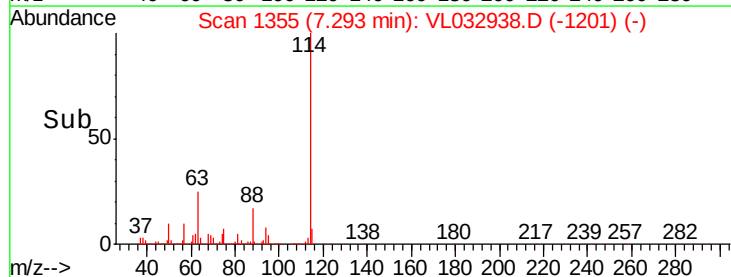
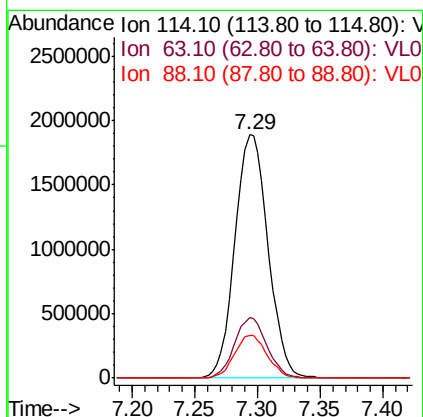
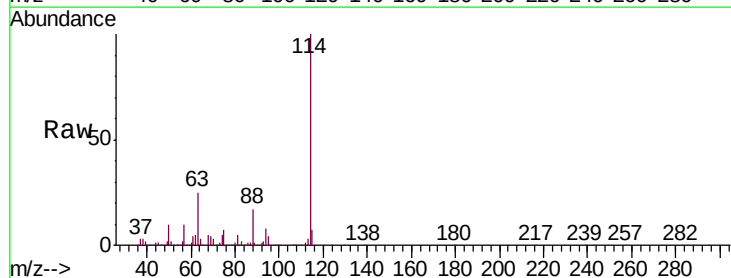
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

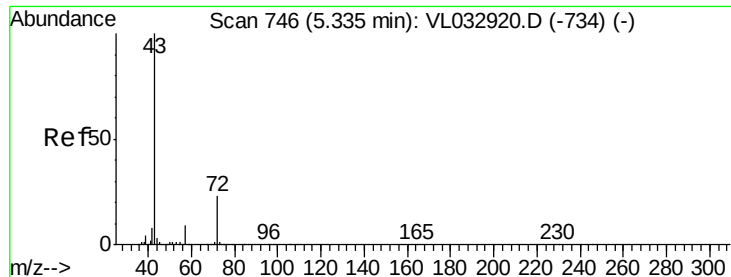
Tgt Ion: 83 Resp: 14433
Ion Ratio Lower Upper
83 100
85 62.1 49.8 74.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

Tgt Ion: 114 Resp: 3471509
Ion Ratio Lower Upper
114 100
63 24.4 20.1 30.1
88 17.4 14.2 21.4

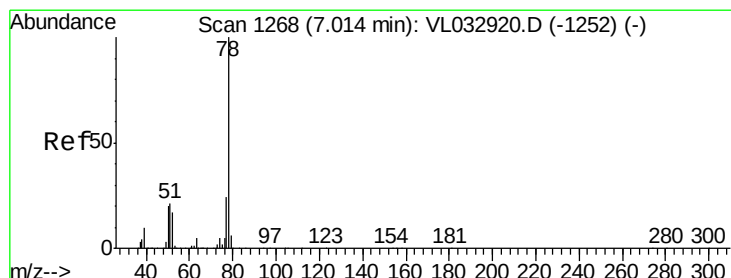
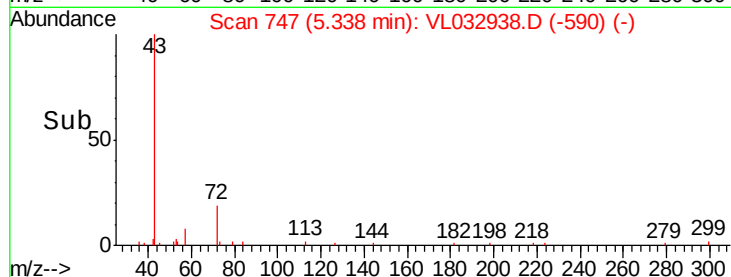
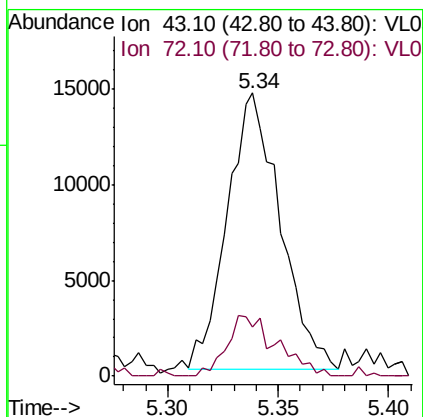
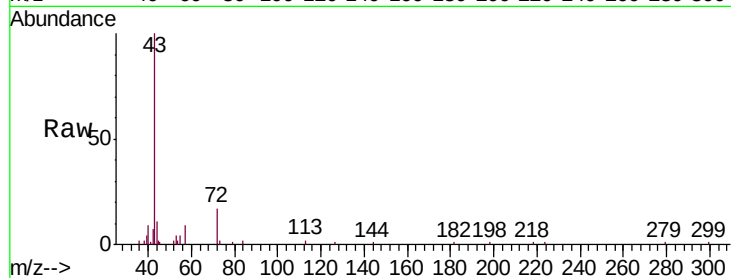




#34
2-Butanone
Concen: 0.160 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.00 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

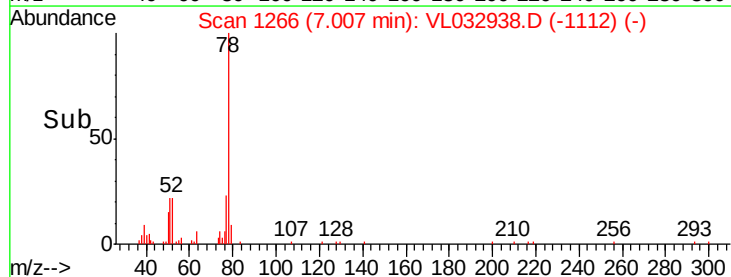
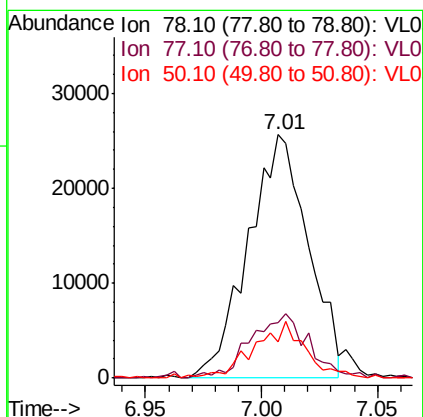
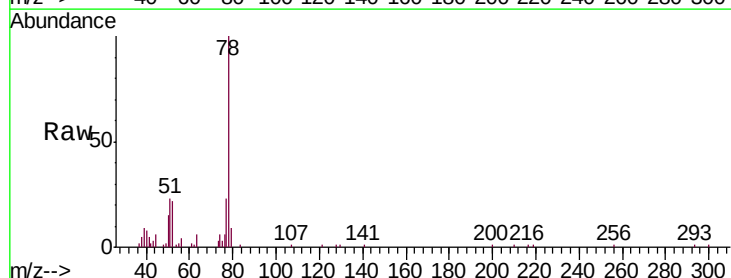
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

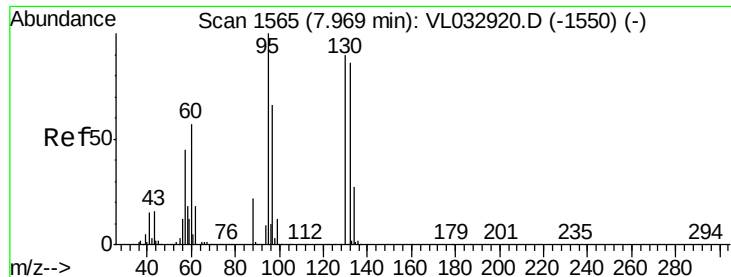
Tgt Ion: 43 Resp: 24126
Ion Ratio Lower Upper
43 100
72 21.0 18.8 28.2



#36
Benzene
Concen: 0.180 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL032938.D
Acq: 7 Dec 2018 17:12

Tgt Ion: 78 Resp: 45864
Ion Ratio Lower Upper
78 100
77 22.6 18.9 28.3
50 13.6 16.1 24.1#





#38

Trichloroethene

Concen: 0.062 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

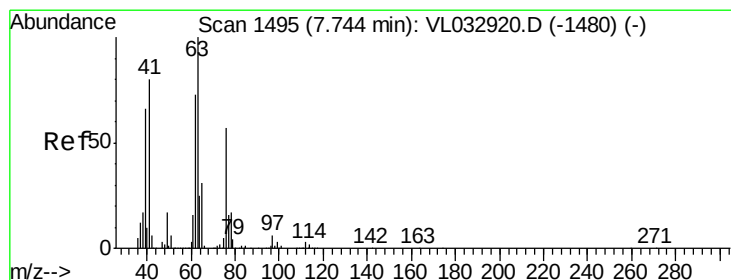
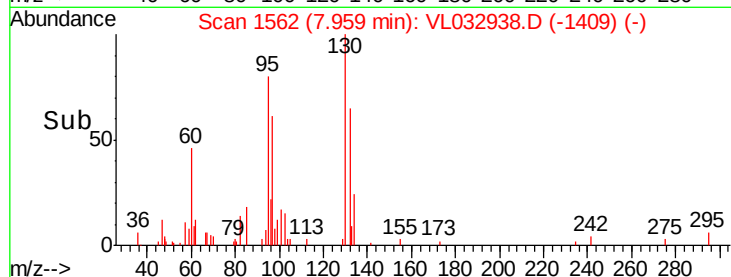
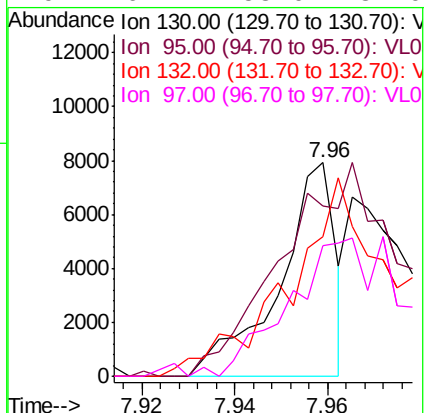
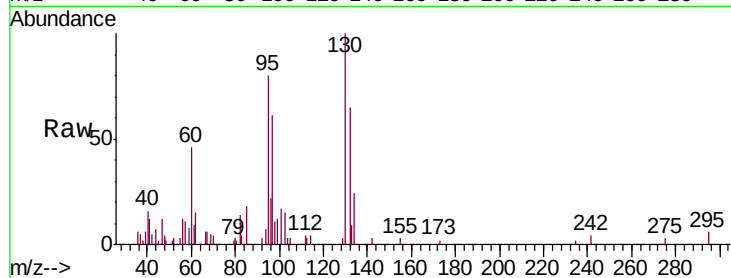
Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion:	130	Resp:	6615
Ion	Ratio	Lower	Upper
130	100		
95	79.8	88.6	132.8#
132	56.5	76.1	114.1#
97	61.1	58.0	87.0



#39

1,2-Dichloropropane

Concen: 8.703 ppbv

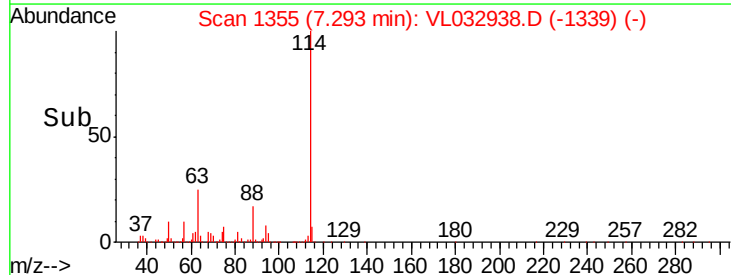
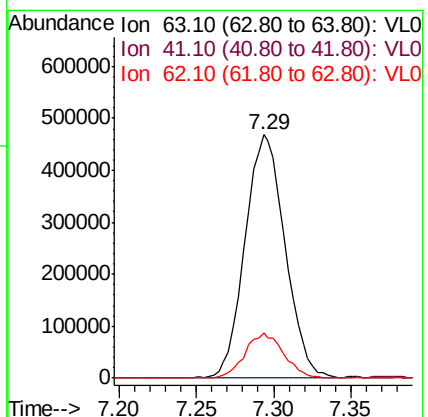
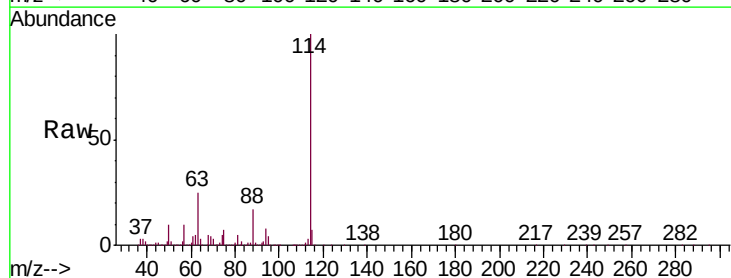
RT: 7.29 min Scan# 1355

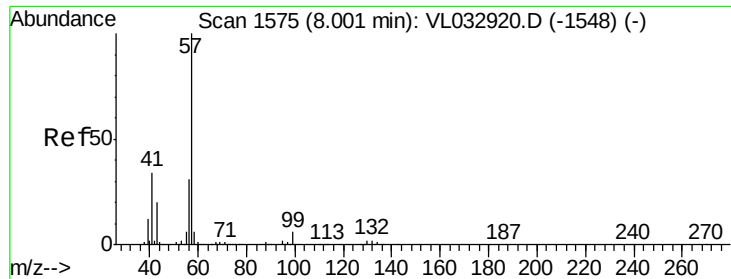
Delta R.T. -0.45 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Tgt Ion:	63	Resp:	842782
Ion	Ratio	Lower	Upper
63	100		
41	0.1	63.9	95.9#
62	18.7	58.8	88.2#





#44

2,2,4-Trimethylpentane

Concen: 0.036 ppbv

RT: 7.99 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

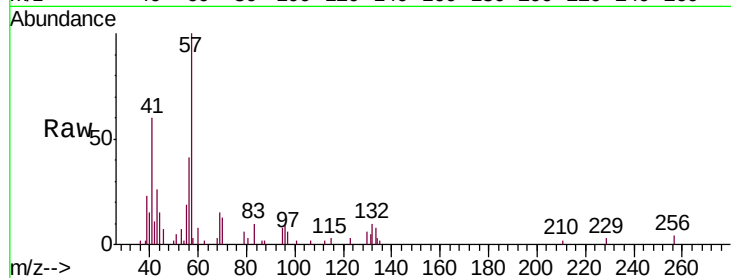
Tgt Ion: 57 Resp: 15523

Ion Ratio Lower Upper

57 100

41 63.3 27.0 40.4#

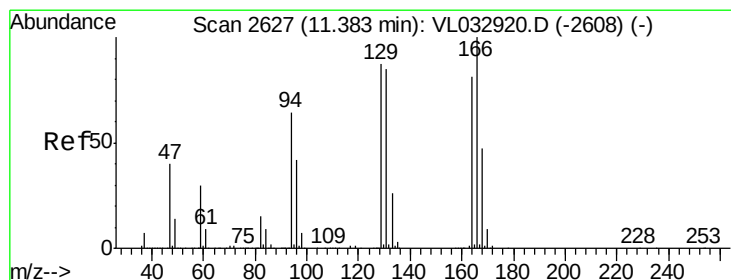
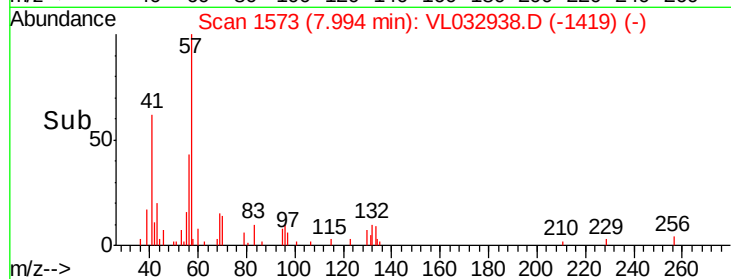
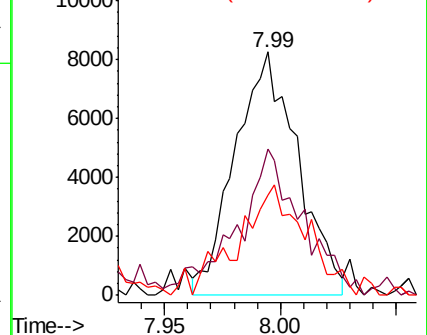
56 50.8 24.6 37.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.510 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Tgt Ion:164 Resp: 47381

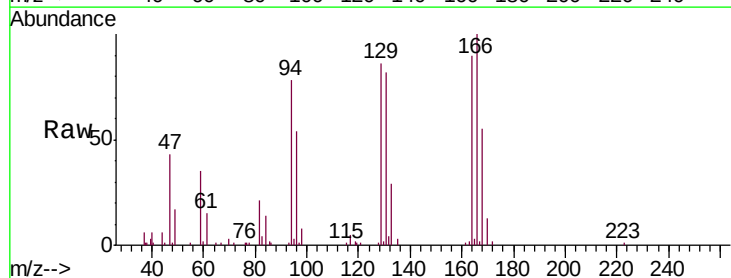
Ion Ratio Lower Upper

164 100

166 111.0 98.8 148.2

129 96.5 85.5 128.3

131 90.2 84.4 126.6

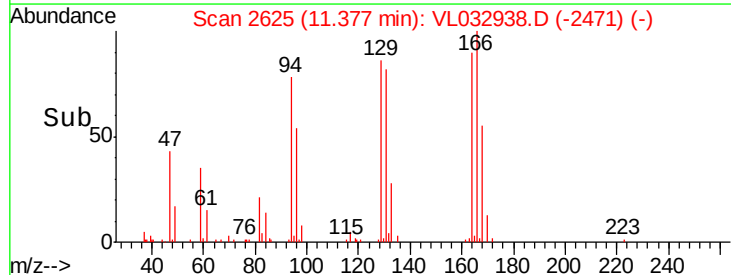
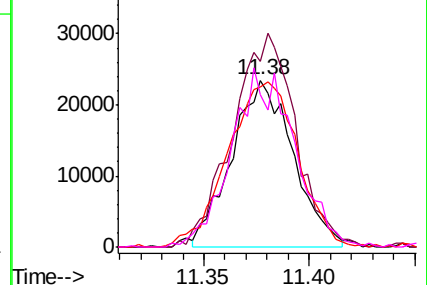


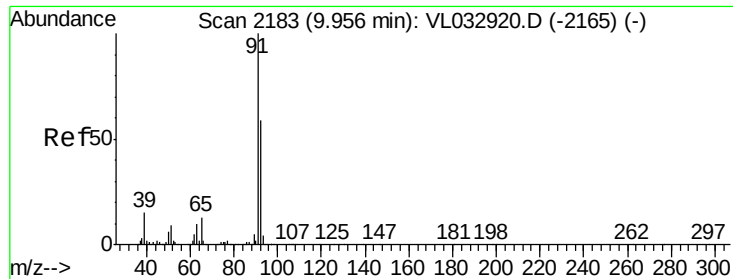
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.098 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

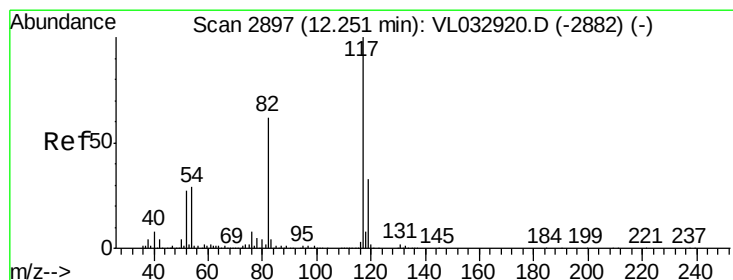
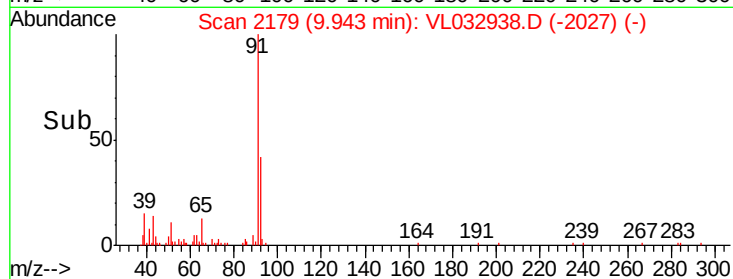
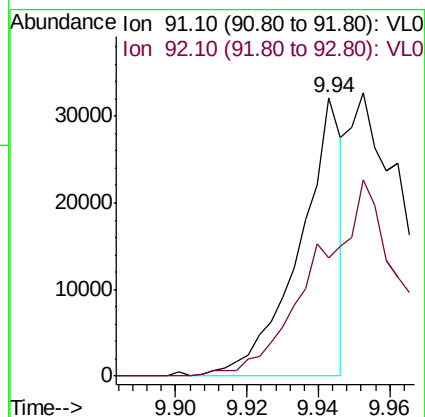
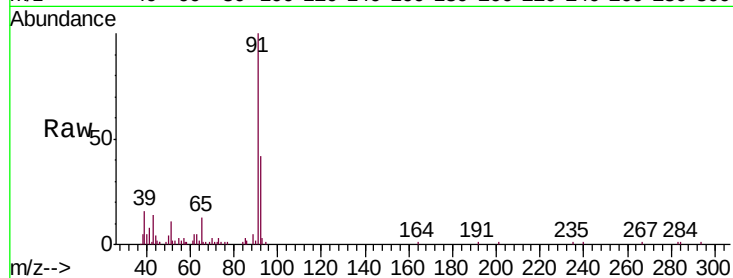
IA2DL

Tgt Ion: 91 Resp: 26628

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# 2895

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

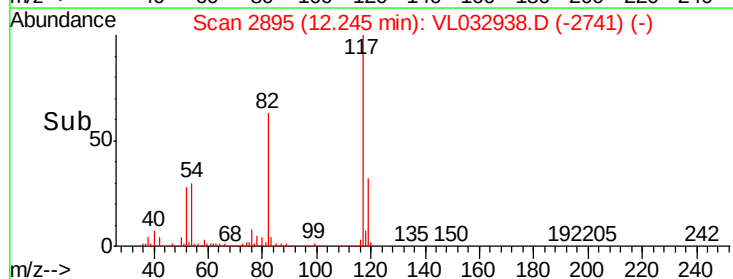
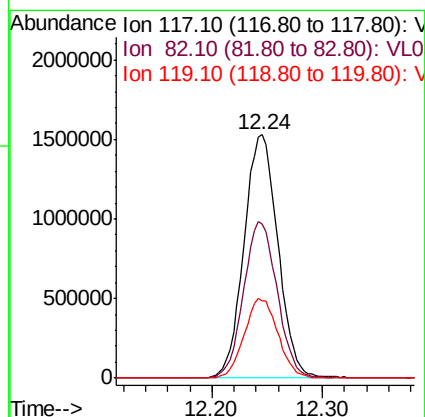
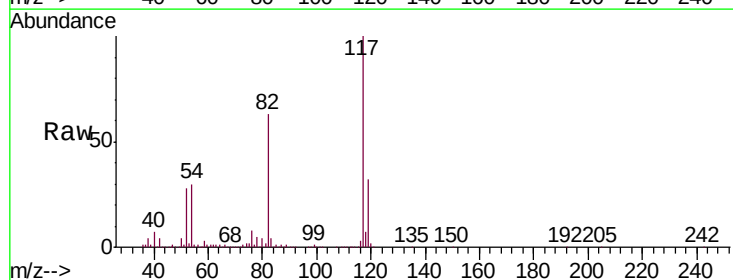
Tgt Ion: 117 Resp: 3266286

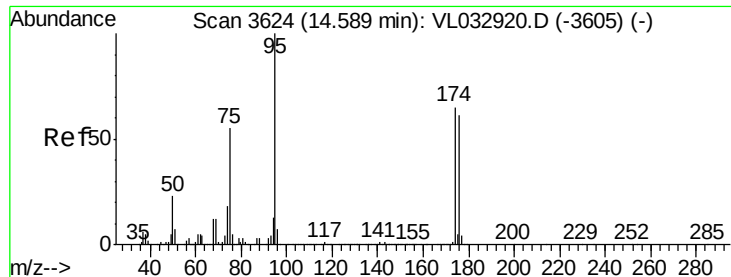
Ion Ratio Lower Upper

117 100

82 63.9 47.8 71.8

119 32.6 43.1 64.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.283 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032938.D

Acq: 7 Dec 2018 17:12

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 95 Resp: 2481296

Ion Ratio Lower Upper

95 100

174 65.3 51.4 77.0

175 4.8 3.8 5.6

