

Data File : VL032708.D
Acq On : 30 Oct 2018 21:17
Operator : SY/AP
Sample : J5693-01DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL2

Quant Time: Oct 31 05:12:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1315916	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3298813	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3262424	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2402630 9.89 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 98.90%

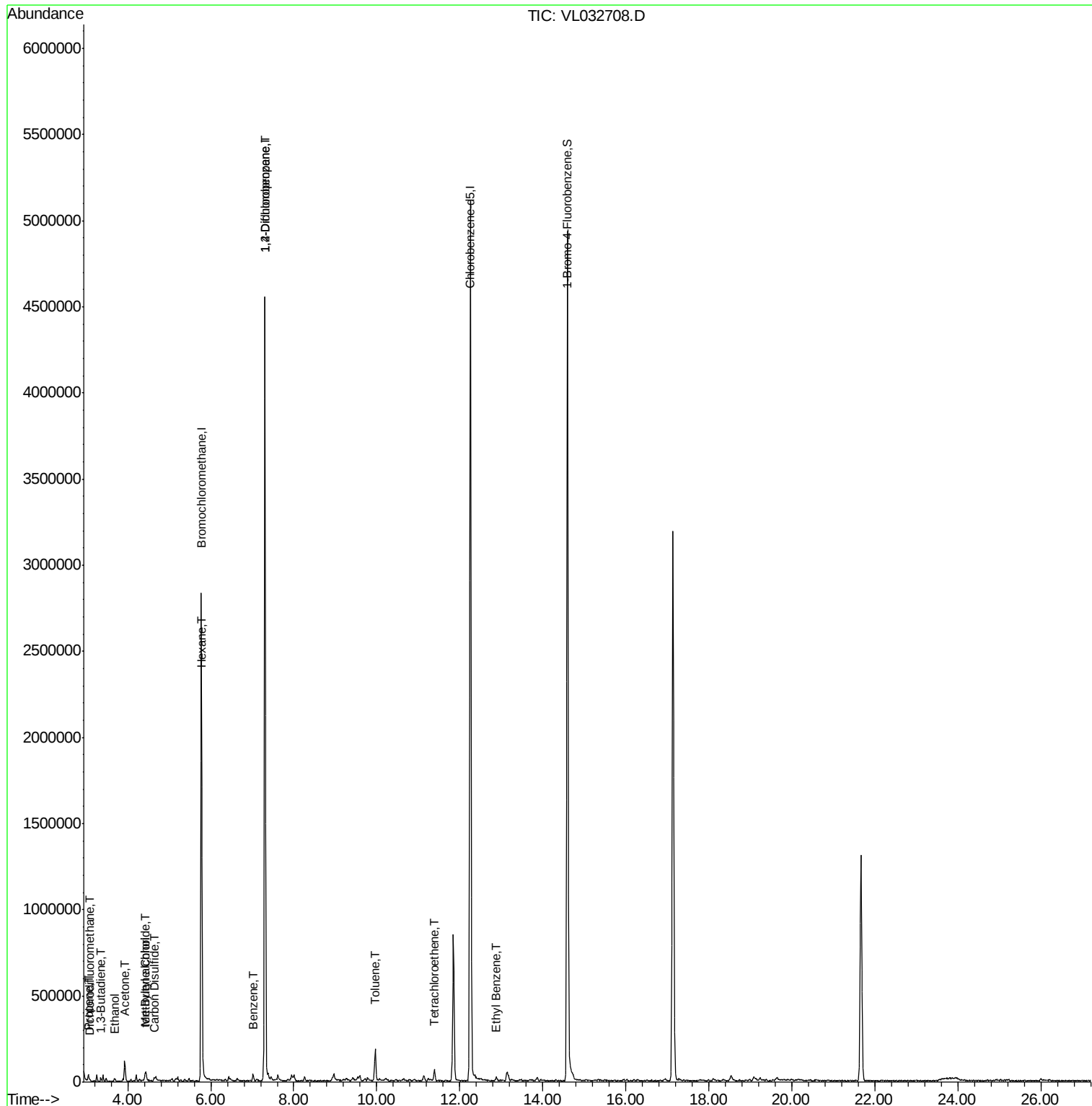
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	4562	0.034	ppbv #	81
9) Propene	3.05	41	4738	0.112	ppbv	97
13) Ethanol	3.68	45	12479	1.031	ppbv	84
15) Acetone	3.93	43	116495	0.959	ppbv	97
16) 1,3-Butadiene	3.35	39	6142	0.137	ppbv #	1
17) tert-Butyl alcohol	4.41	59	2504	0.070	ppbv #	100
20) Methylene Chloride	4.42	84	11372	0.184	ppbv #	80
26) Hexane	5.79	57	11489	0.087	ppbv #	31
27) Carbon Disulfide	4.63	76	8660	0.054	ppbv #	61
36) Benzene	7.02	78	25827	0.096	ppbv #	90
39) 1,2-Dichloropropane	7.30	63	825444	7.980	ppbv #	26
52) Tetrachloroethene	11.38	164	7002	0.075	ppbv	91
53) Toluene	9.96	91	128707	0.419	ppbv	96
58) Ethyl Benzene	12.88	91	11610	0.031	ppbv	89

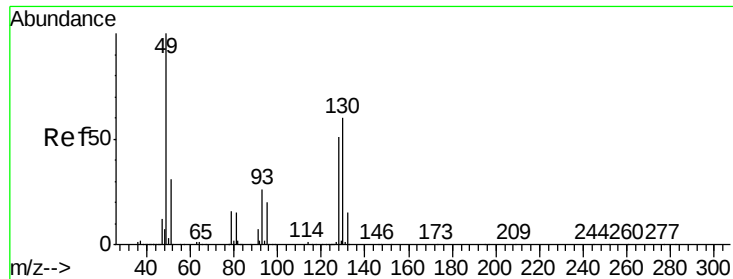
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

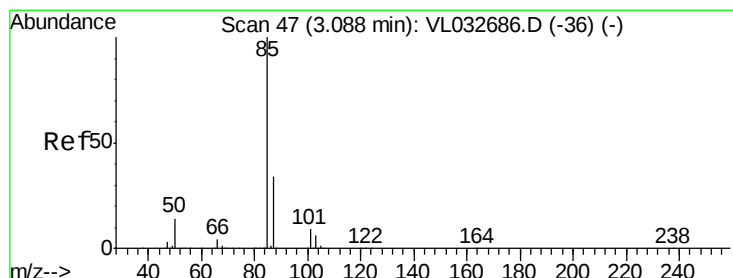
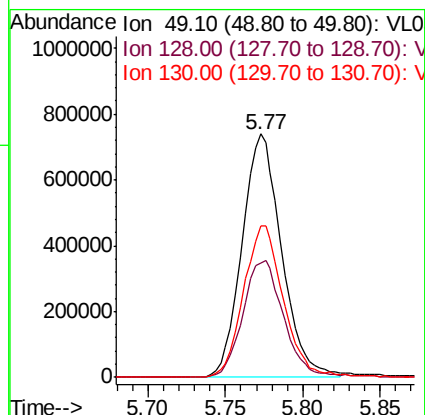
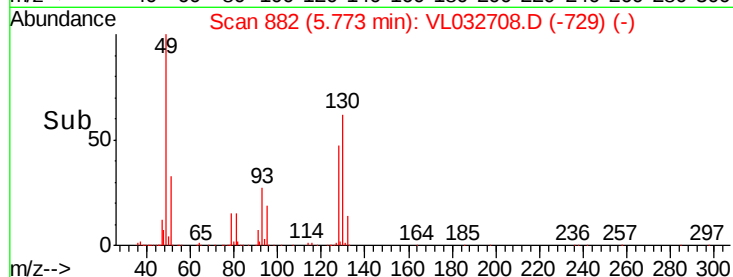
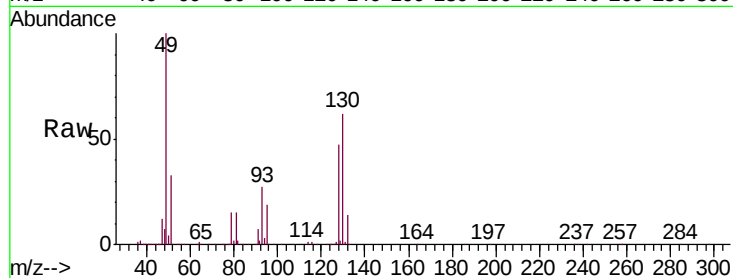
Tgt Ion: 49 Resp: 1315916

Ion Ratio Lower Upper

49 100

128 49.8 22.3 66.8

130 63.6 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032708.D

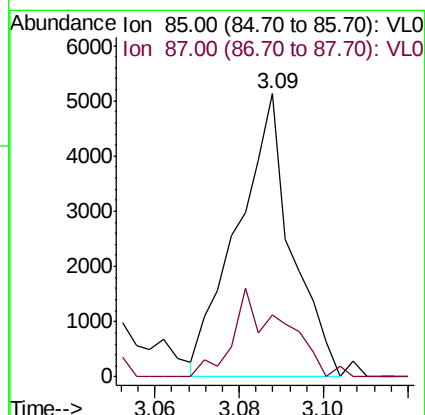
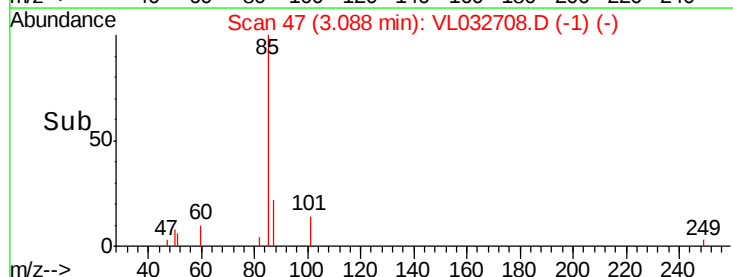
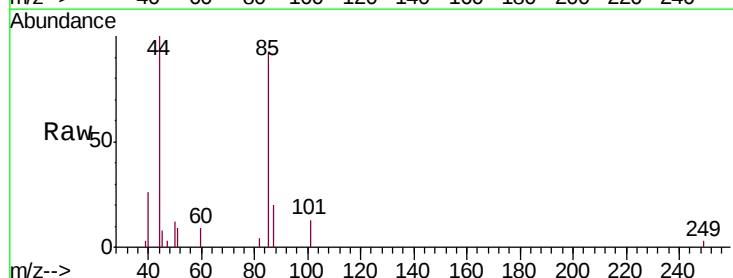
Acq: 30 Oct 2018 21:17

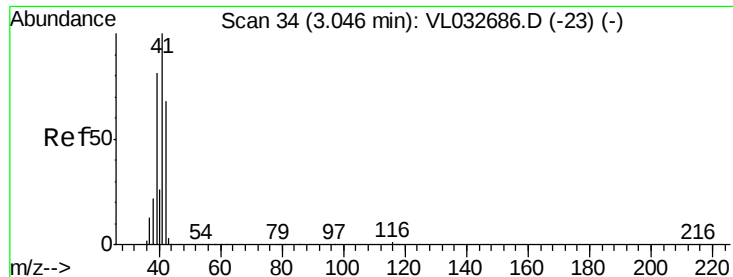
Tgt Ion: 85 Resp: 4562

Ion Ratio Lower Upper

85 100

87 21.8 26.2 39.2#





#9

Propene

Concen: 0.112 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

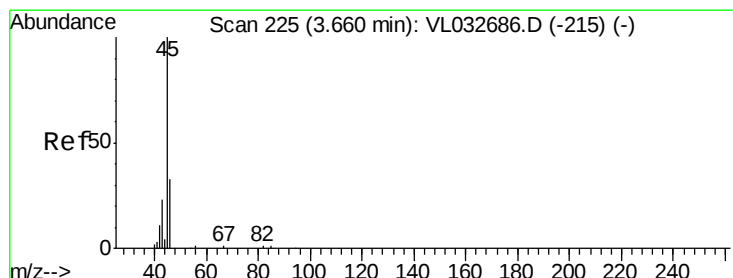
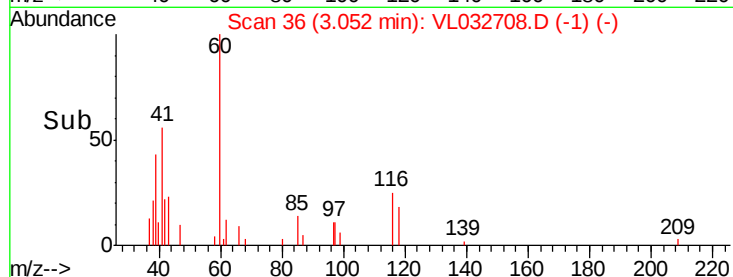
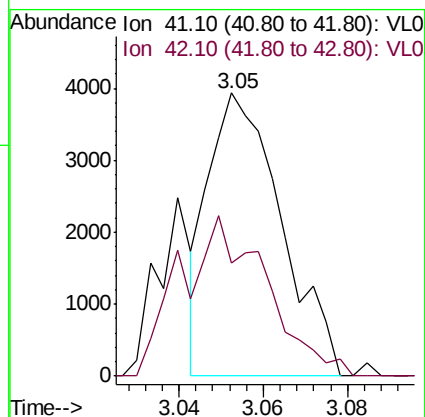
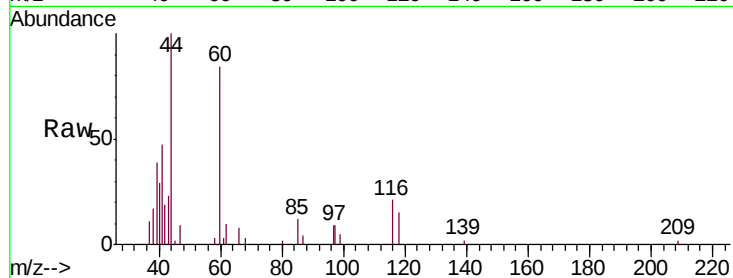
SS-1DL2

Tgt Ion: 41 Resp: 4738

Ion Ratio Lower Upper

41 100

42 66.9 55.4 83.0



#13

Ethanol

Concen: 1.031 ppbv

RT: 3.68 min Scan# 232

Delta R.T. 0.02 min

Lab File: VL032708.D

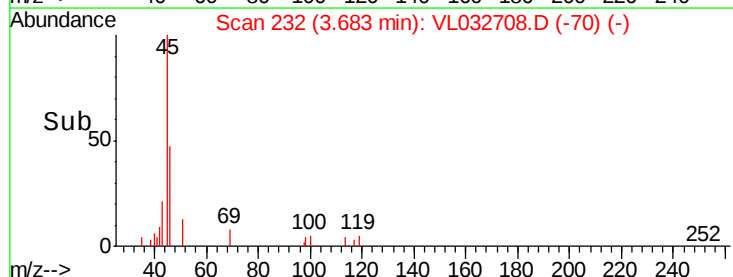
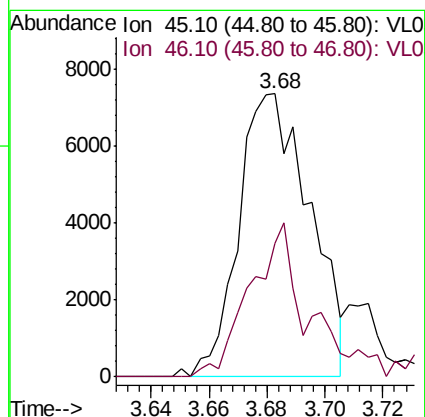
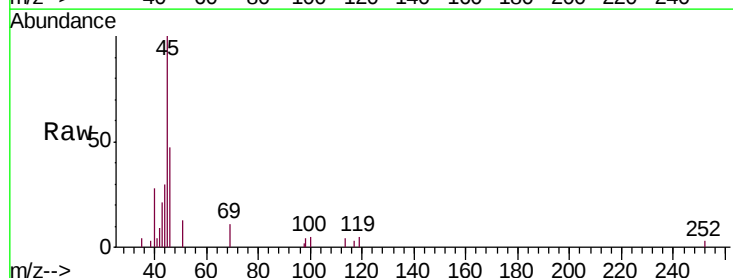
Acq: 30 Oct 2018 21:17

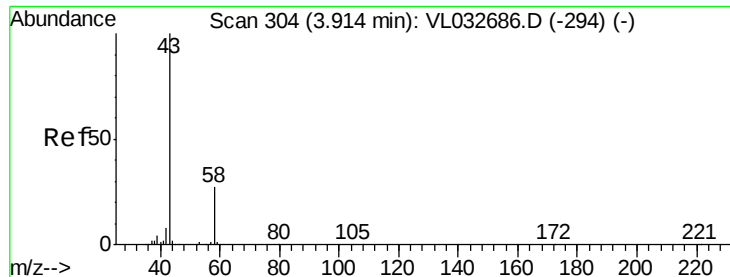
Tgt Ion: 45 Resp: 12479

Ion Ratio Lower Upper

45 100

46 48.4 15.4 61.8





#15

Acetone

Concen: 0.959 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

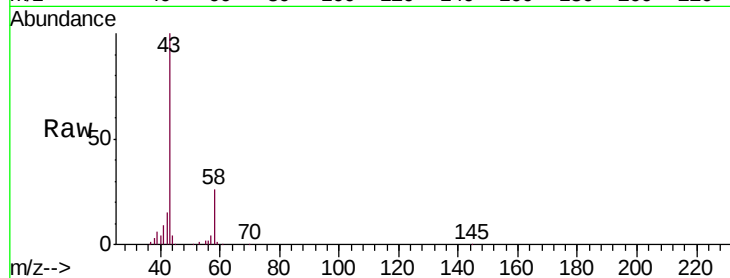
SS-1DL2

Tgt Ion: 43 Resp: 116495

Ion Ratio Lower Upper

43 100

58 25.9 22.1 33.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.93

80000

60000

40000

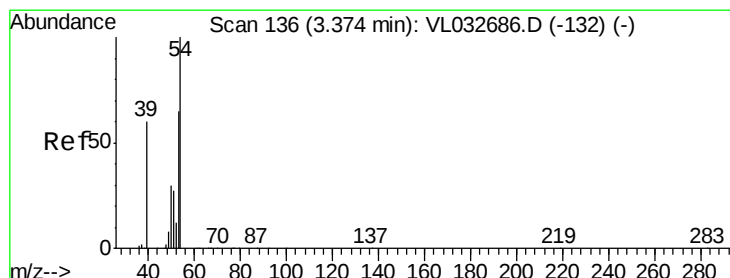
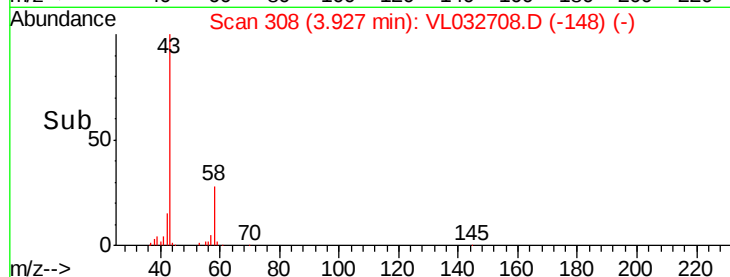
20000

0

Time-->

3.90

3.95



#16

1,3-Butadiene

Concen: 0.137 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032708.D

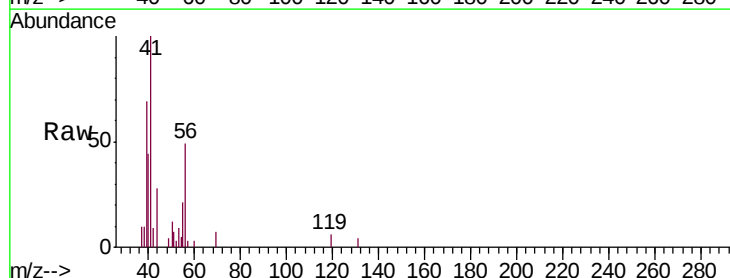
Acq: 30 Oct 2018 21:17

Tgt Ion: 39 Resp: 6142

Ion Ratio Lower Upper

39 100

54 3.3 90.4 135.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

5000

4000

3000

2000

1000

0

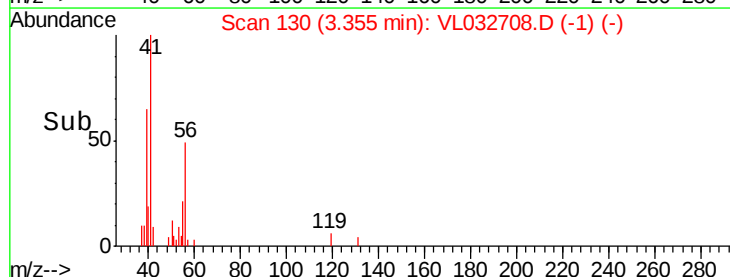
Time-->

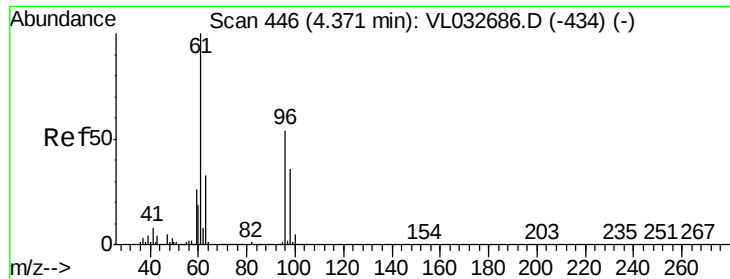
3.32

3.34

3.36

3.38





#17

tert-Butyl alcohol

Concen: 0.070 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.04 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

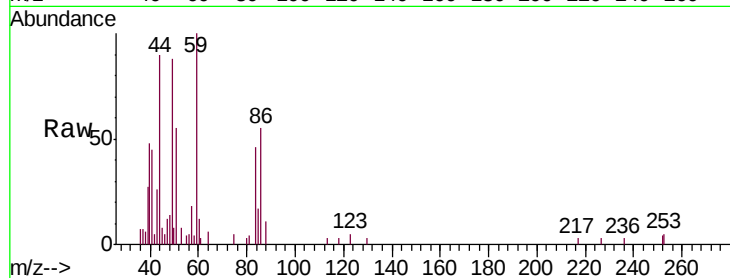
SS-1DL2

Tgt Ion: 59 Resp: 2504

Ion Ratio Lower Upper

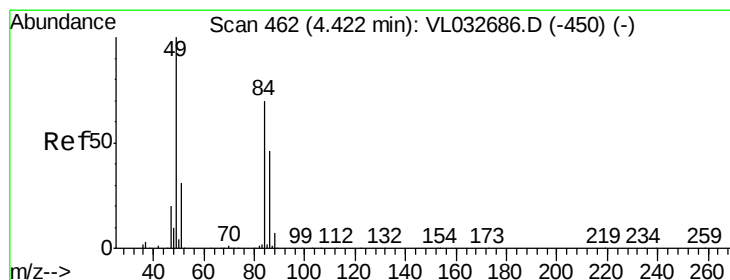
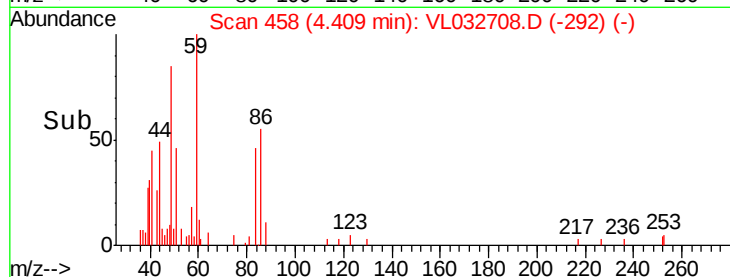
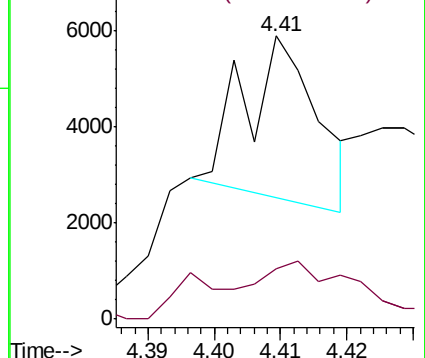
59 100

57 70.5 0.0 0.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#20

Methylene Chloride

Concen: 0.184 ppbv

RT: 4.42 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Tgt Ion: 84 Resp: 11372

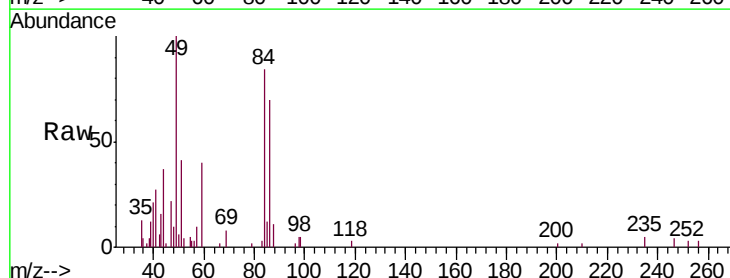
Ion Ratio Lower Upper

84 100

49 119.1 113.5 170.3

51 49.3 34.8 52.2

86 83.6 47.9 71.9#

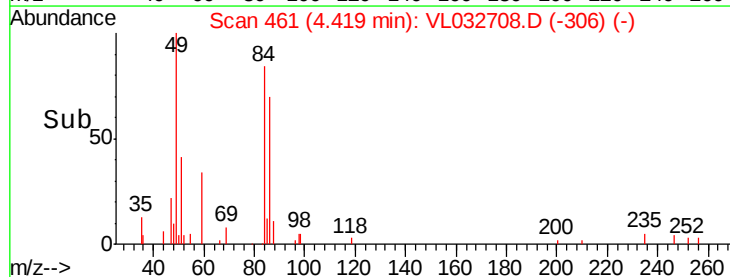
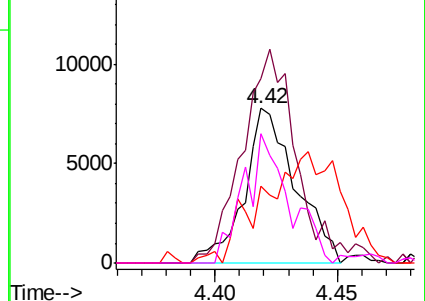


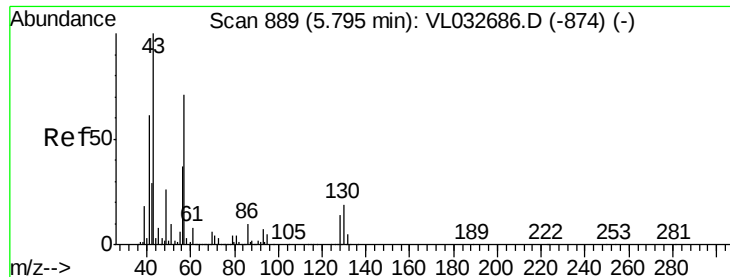
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#26

Hexane

Concen: 0.087 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.00 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

Tgt Ion: 57 Resp: 11489

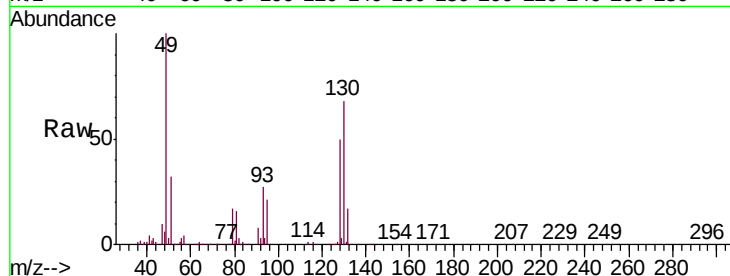
Ion Ratio Lower Upper

57 100

41 5.1 67.4 101.0#

43 113.1 171.9 257.9#

56 97.0 42.6 63.8#

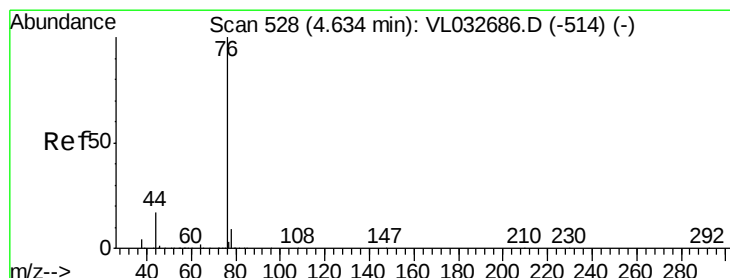
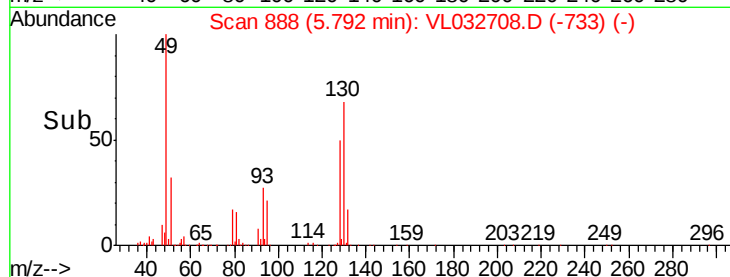
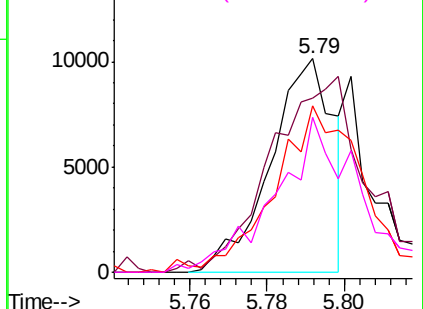


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.054 ppbv

RT: 4.63 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

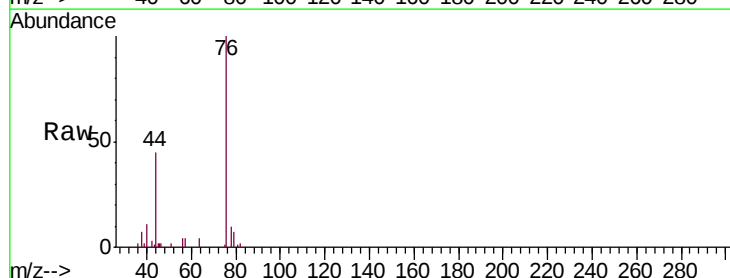
Tgt Ion: 76 Resp: 8660

Ion Ratio Lower Upper

76 100

44 0.0 13.7 20.5#

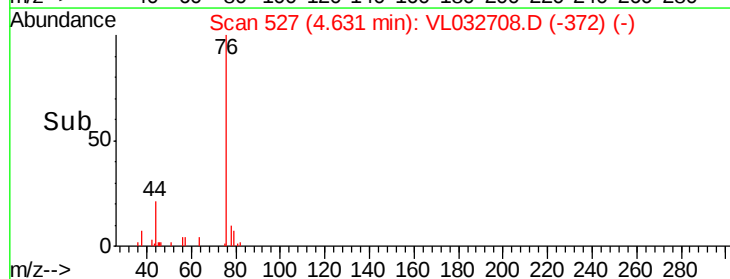
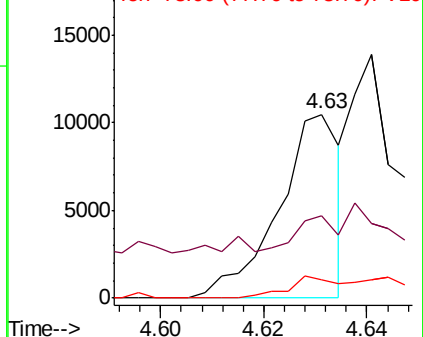
78 23.2 7.4 11.2#

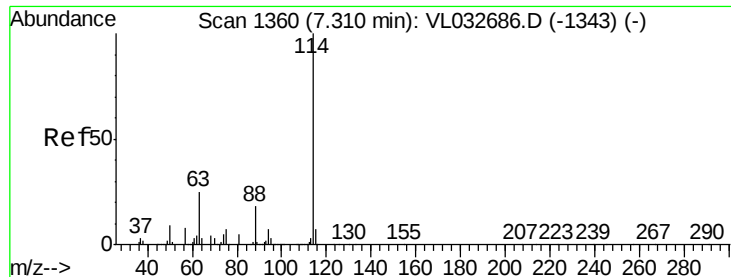


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

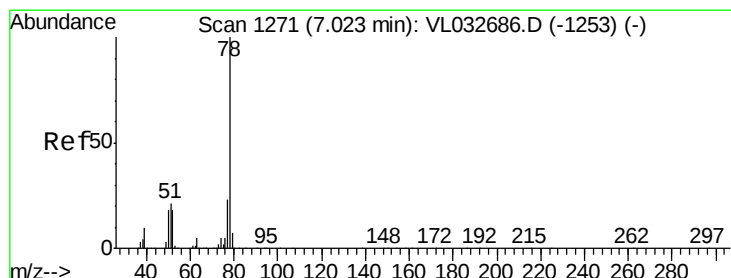
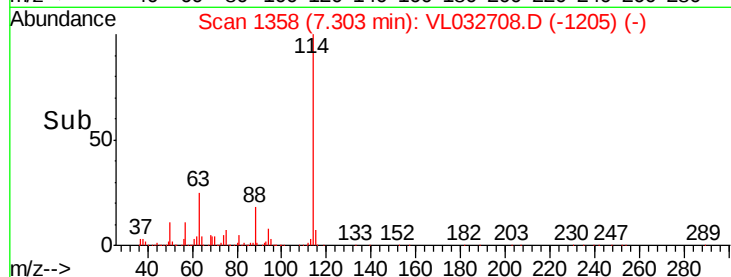
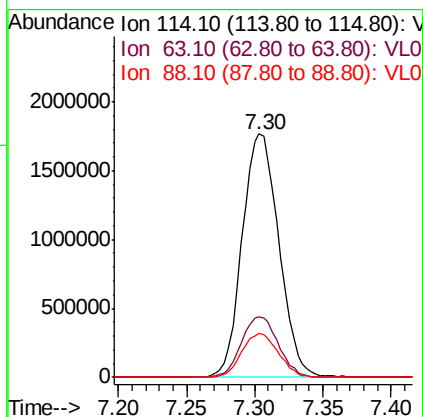
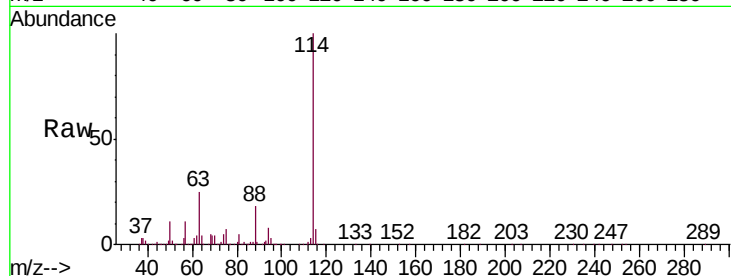




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032708.D
 Acq: 30 Oct 2018 21:17

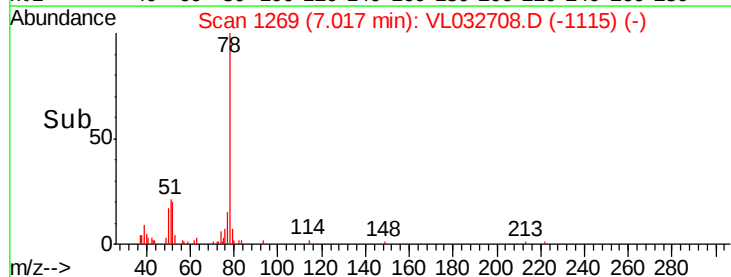
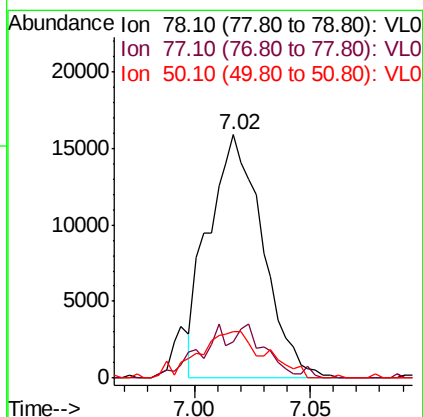
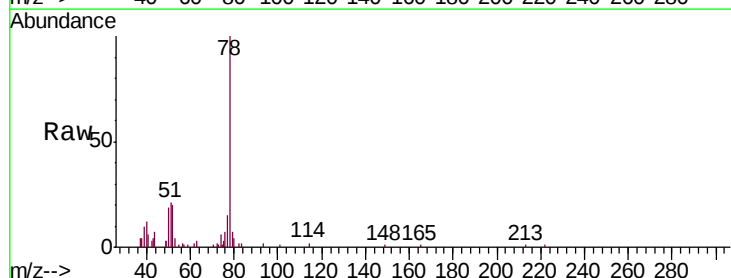
Instrument :
 MSVOA_L
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 SS-1DL2

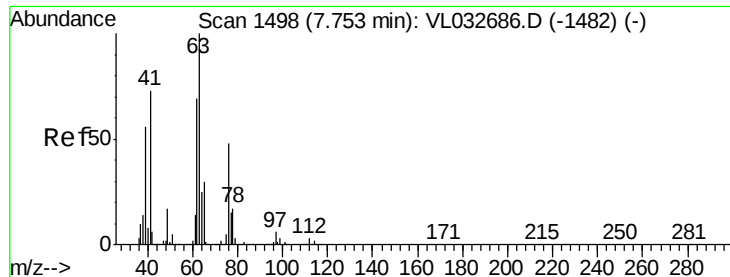
Tgt Ion:114 Resp: 3298813
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.7 32.5
 88 18.0 14.9 22.3



#36
 Benzene
 Concen: 0.096 ppbv
 RT: 7.02 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VL032708.D
 Acq: 30 Oct 2018 21:17

Tgt Ion: 78 Resp: 25827
 Ion Ratio Lower Upper
 78 100
 77 15.1 18.1 27.1#
 50 17.5 15.1 22.7





#39

1,2-Dichloropropane

Concen: 7.980 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.45 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

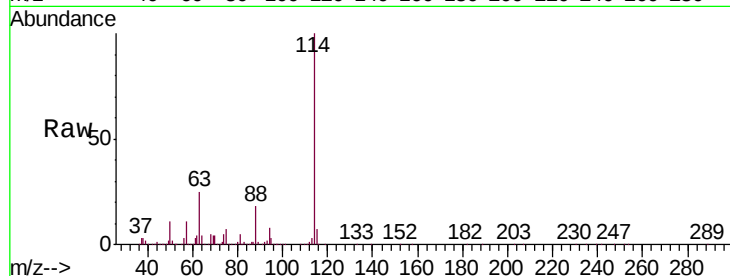
Tgt Ion: 63 Resp: 825444

Ion Ratio Lower Upper

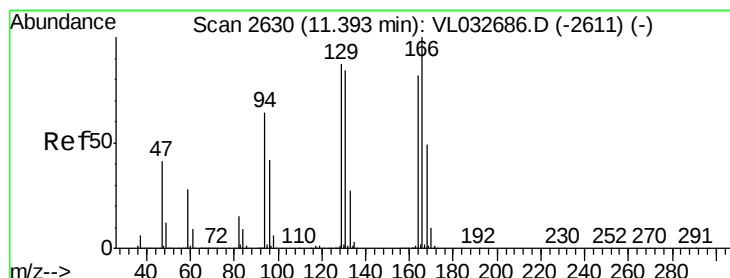
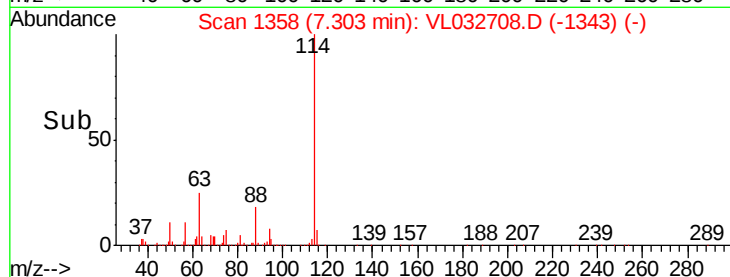
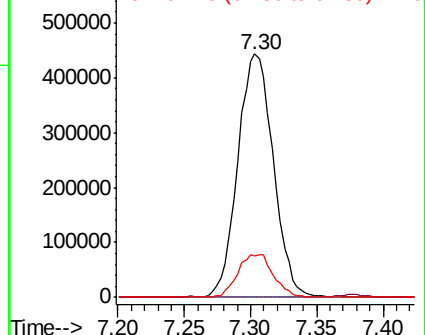
63 100

41 0.0 56.2 84.4#

62 17.2 54.4 81.6#



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: 0.075 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.02 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Tgt Ion: 164 Resp: 7002

Ion Ratio Lower Upper

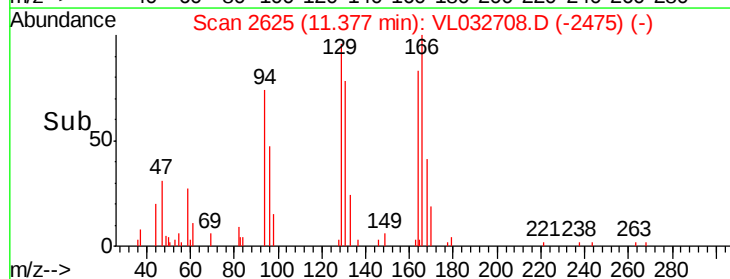
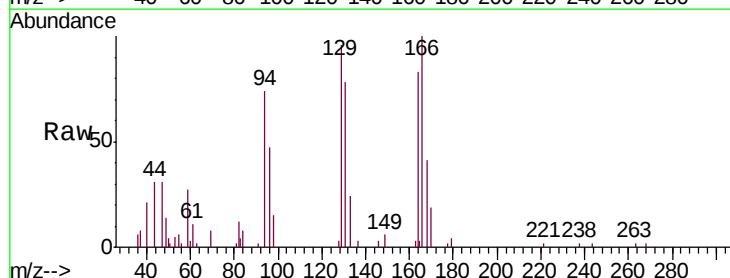
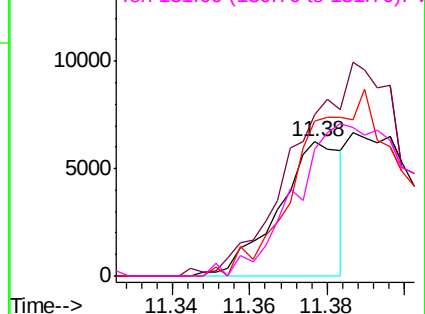
164 100

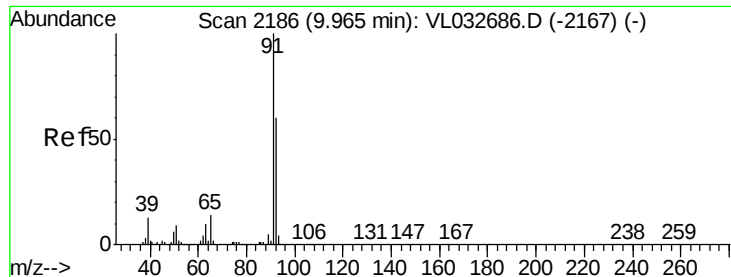
166 114.2 100.5 150.7

129 115.7 90.0 135.0

131 94.3 86.6 129.8

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: 0.419 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

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ClientSampleId :

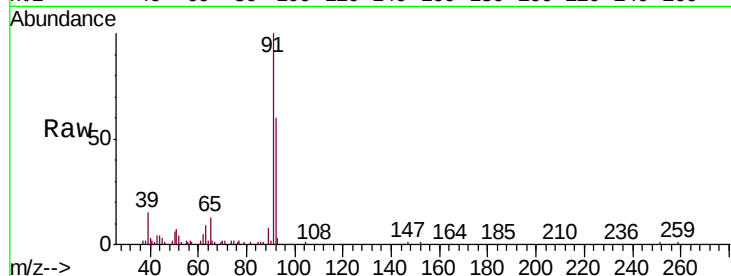
SS-1DL2

Tgt Ion: 91 Resp: 128707

Ion Ratio Lower Upper

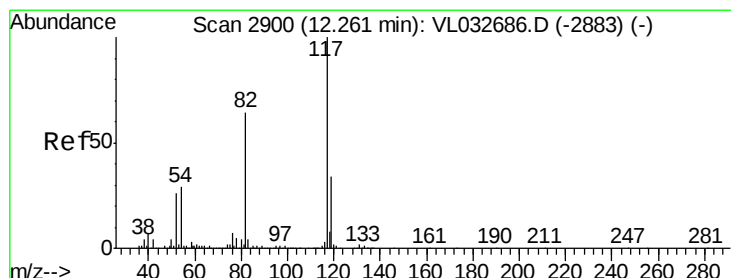
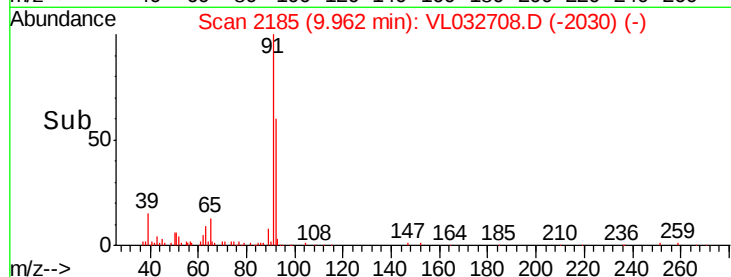
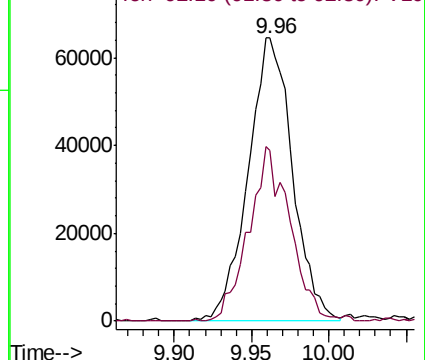
91 100

92 57.8 48.4 72.6



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: VL032708.D

Acq: 30 Oct 2018 21:17

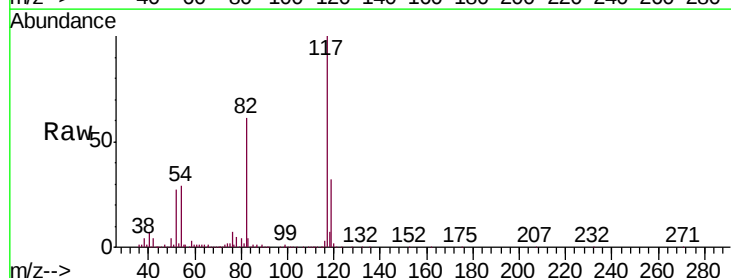
Tgt Ion: 117 Resp: 3262424

Ion Ratio Lower Upper

117 100

82 63.9 52.7 79.1

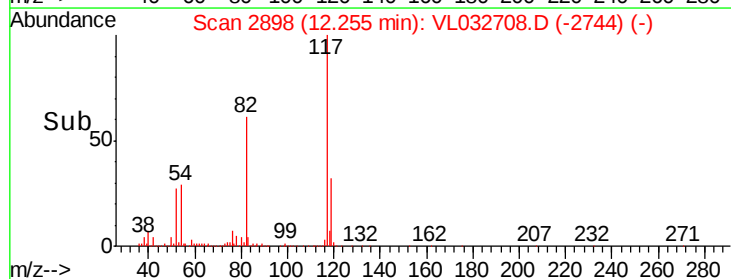
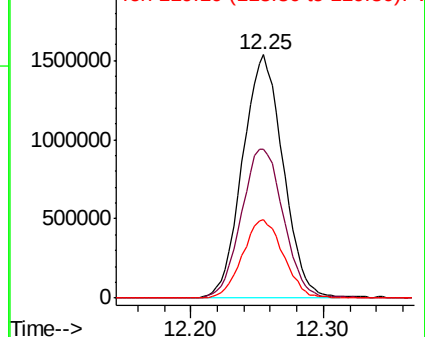
119 32.8 26.7 40.1

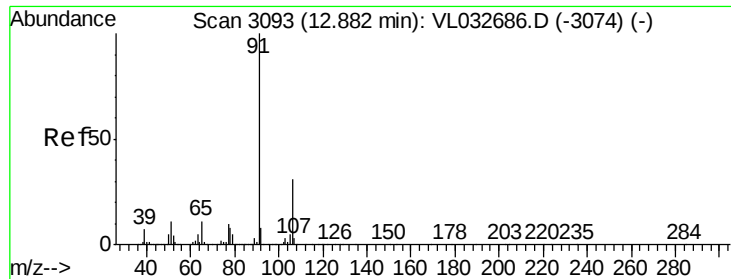


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. -0.01 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

Instrument :

MSVOA_L

ClientSampleId :

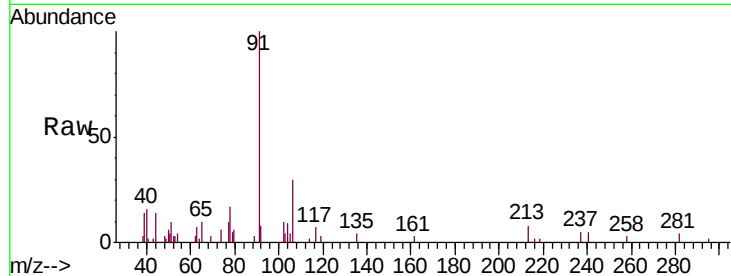
SS-1DL2

Tgt Ion: 91 Resp: 11610

Ion Ratio Lower Upper

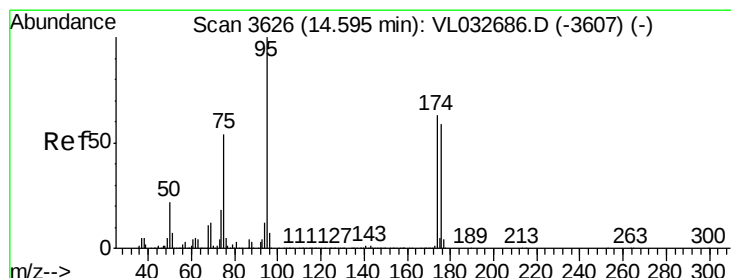
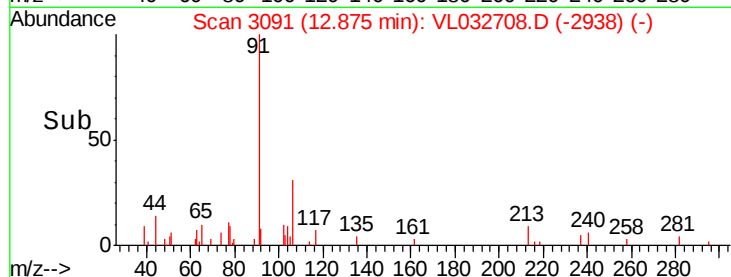
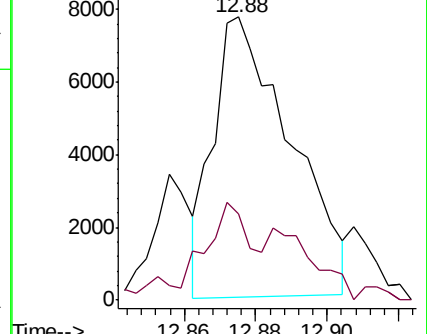
91 100

106 24.5 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.891 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032708.D

Acq: 30 Oct 2018 21:17

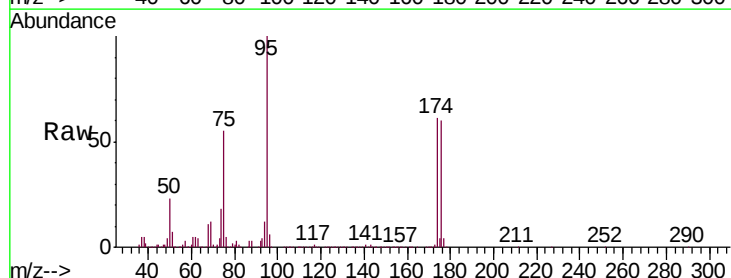
Tgt Ion: 95 Resp: 2402630

Ion Ratio Lower Upper

95 100

174 65.3 46.0 69.0

175 4.7 3.4 5.0



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

