

Data File : VL032759.D
Acq On : 14 Nov 2018 15:00
Operator : SY/AP
Sample : J5896-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 15 04:55:37 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	5.76	49	1557598	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3868566	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3593149	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2815568 10.48 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.80%

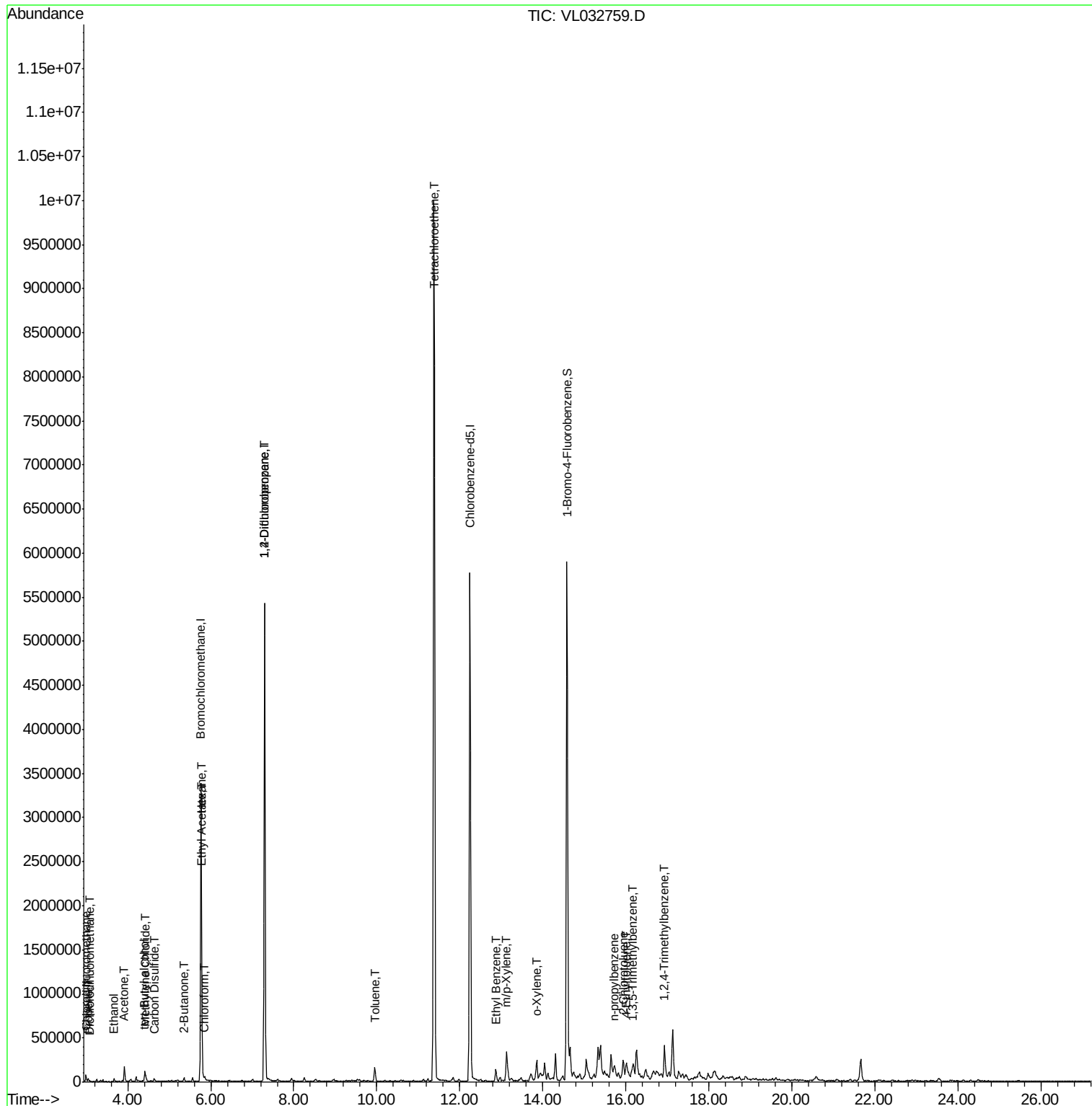
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	11281	0.050	ppbv #	82
3) Chlorodifluoromethane	2.99	51	47203	0.382	ppbv #	61
9) Propene	3.04	41	2943	0.060	ppbv #	15
13) Ethanol	3.67	45	26547	1.640	ppbv	89
15) Acetone	3.92	43	163514	1.150	ppbv	98
17) tert-Butyl alcohol	4.40	59	6828	0.153	ppbv #	52
20) Methylene Chloride	4.42	84	26412	0.359	ppbv	95
25) Ethyl Acetate	5.79	43	36227	0.109	ppbv #	82
26) Hexane	5.79	57	40955	0.278	ppbv #	47
27) Carbon Disulfide	4.63	76	24806	0.133	ppbv #	45
29) Chloroform	5.85	83	9420	0.036	ppbv	94
34) 2-Butanone	5.35	43	39022	0.194	ppbv	96
39) 1,2-Dichloropropane	7.29	63	985393	8.395	ppbv #	22
52) Tetrachloroethene	11.38	164	2498430	23.314	ppbv	98
53) Toluene	9.95	91	113459	0.353	ppbv	97
58) Ethyl Benzene	12.87	91	97899	0.226	ppbv	93
59) m/p-Xylene	13.13	91	306899	0.797	ppbv	98
60) o-Xylene	13.85	91	160382	0.414	ppbv	99
64) n-propylbenzene	15.73	120	5820	0.042	ppbv #	1
71) 2-Chlorotoluene	15.94	91	13606	0.035	ppbv	72
72) 4-Ethyltoluene	16.00	105	54792	0.129	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.16	105	29159	0.070	ppbv #	78
74) 1,2,4-Trimethylbenzene	16.93	105	201115	0.453	ppbv #	66

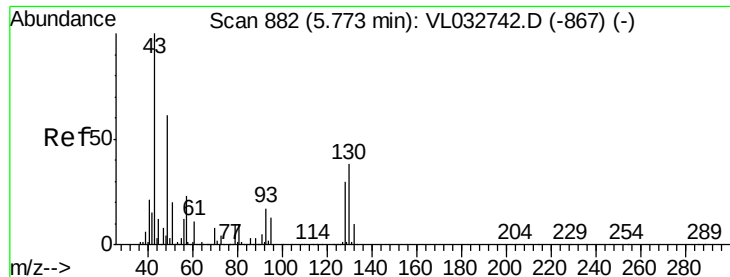
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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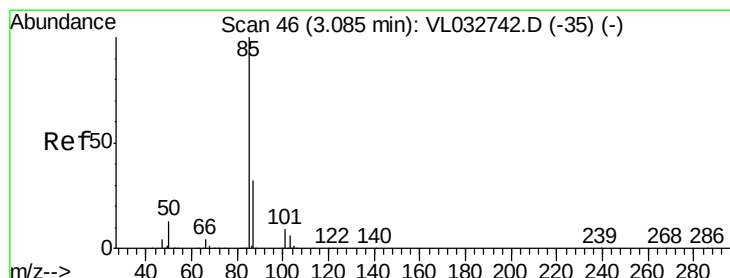
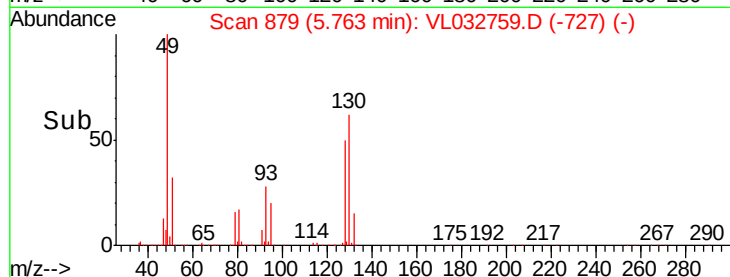
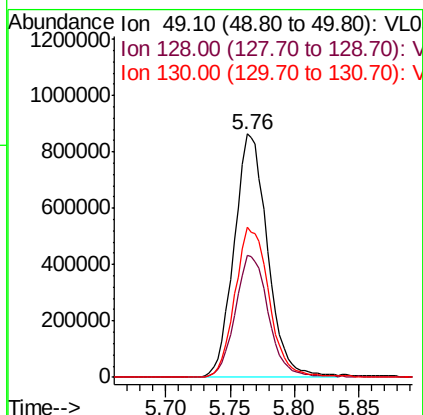
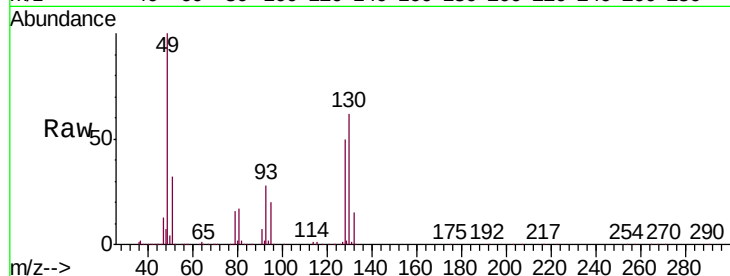




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

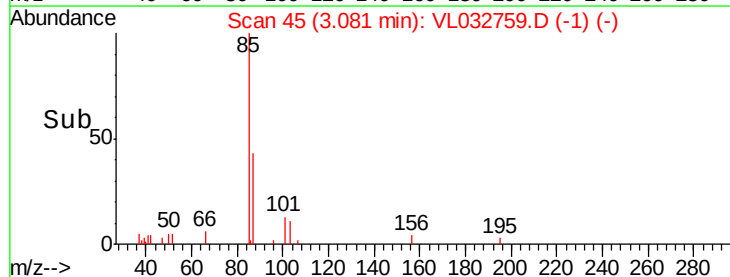
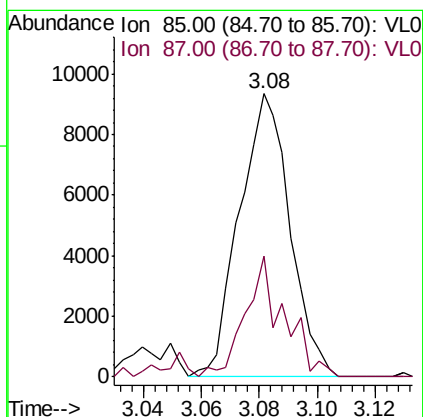
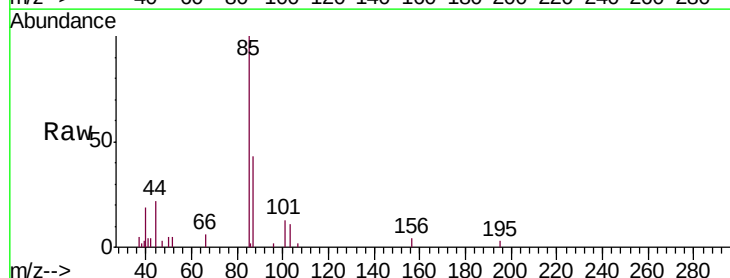
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

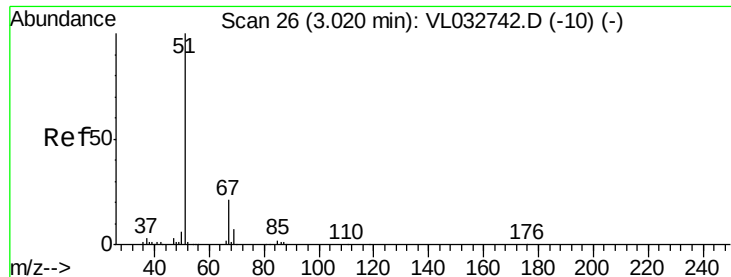
Tgt Ion: 49 Resp: 1557598
 Ion Ratio Lower Upper
 49 100
 128 50.5 24.9 74.6
 130 63.7 31.4 94.2



#2
 Dichlorodifluoromethane
 Concen: 0.050 ppbv
 RT: 3.08 min Scan# 45
 Delta R.T. -0.00 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Tgt Ion: 85 Resp: 11281
 Ion Ratio Lower Upper
 85 100
 87 42.6 26.0 39.0#





#3

Chlorodifluoromethane

Concen: 0.382 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.03 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampleId :

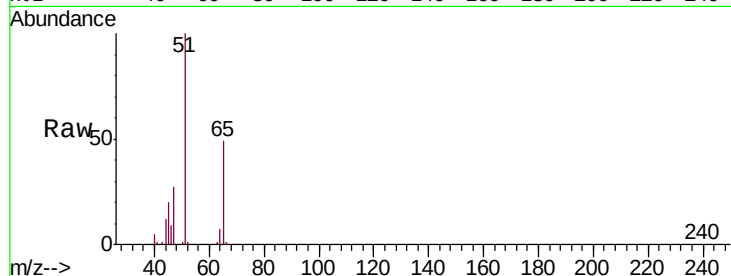
SV1

Tgt Ion: 51 Resp: 47203

Ion Ratio Lower Upper

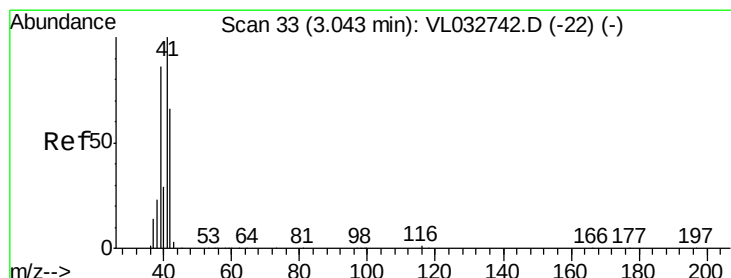
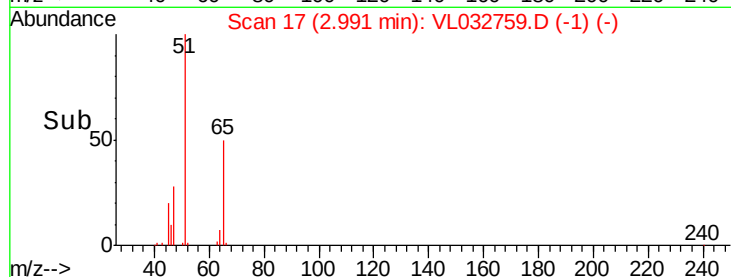
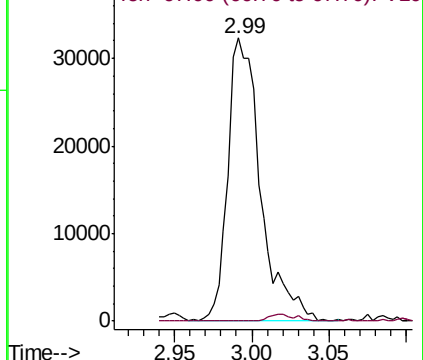
51 100

67 2.0 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.060 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032759.D

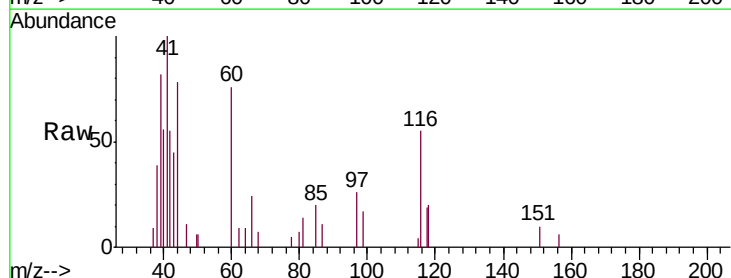
Acq: 14 Nov 2018 15:00

Tgt Ion: 41 Resp: 2943

Ion Ratio Lower Upper

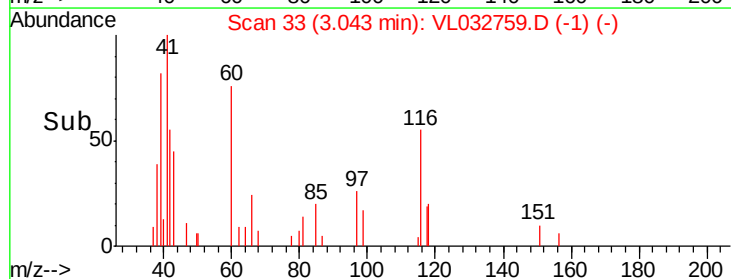
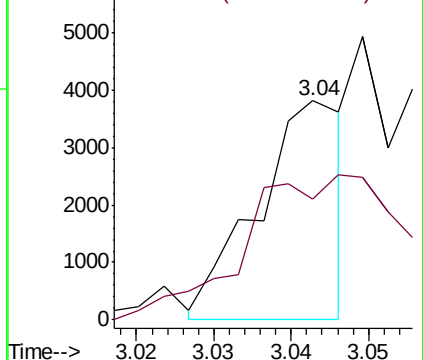
41 100

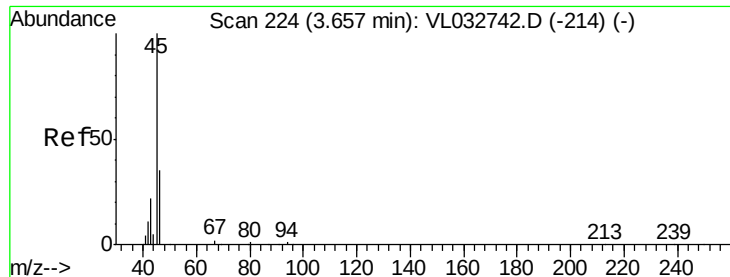
42 0.0 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

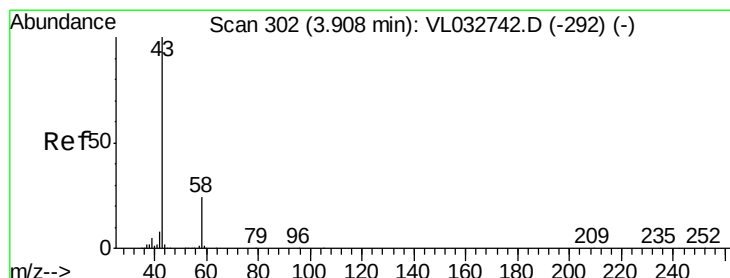
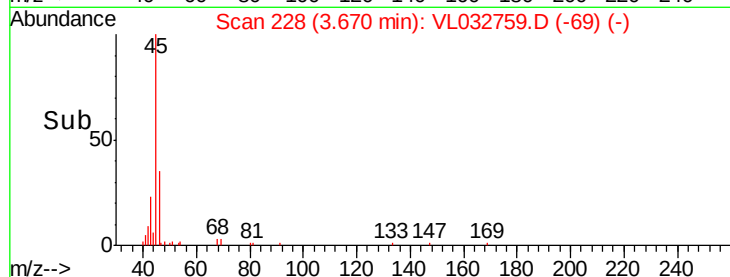
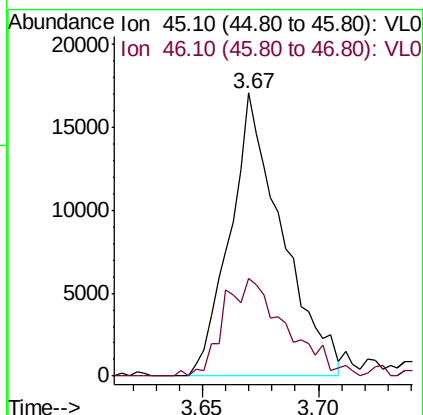
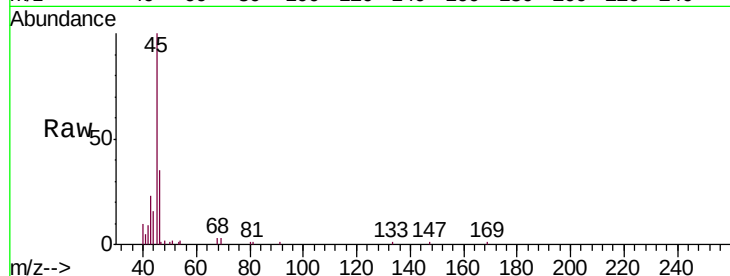




#13
Ethanol
Concen: 1.640 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032759.D
Acq: 14 Nov 2018 15:00

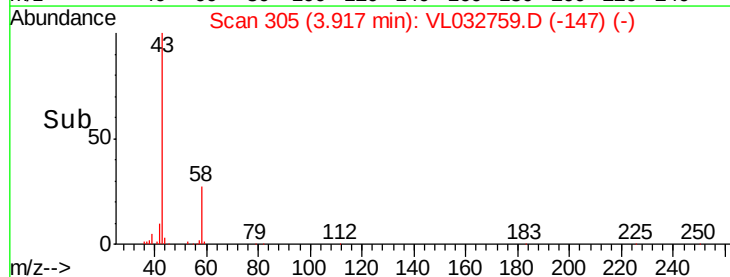
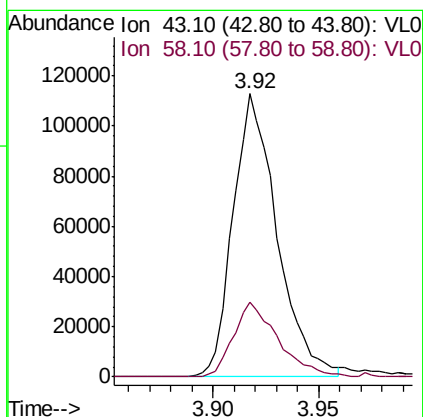
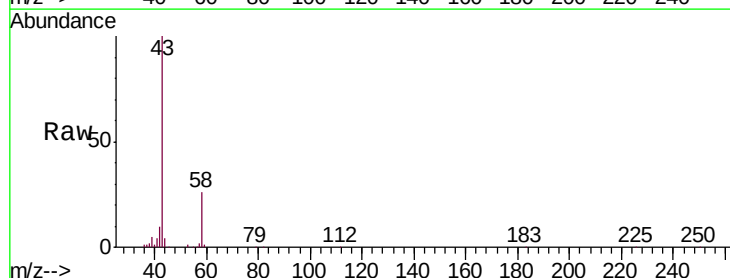
Instrument :
MSVOA_L
ClientSampleId :
SV1

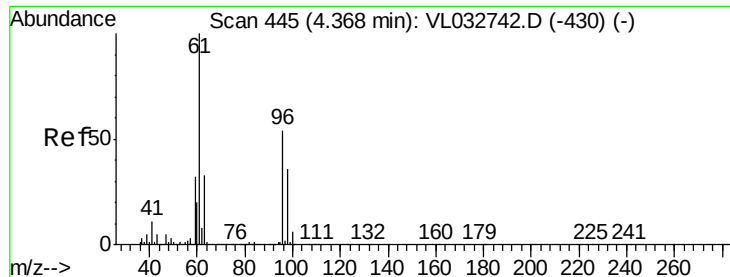
Tgt Ion: 45 Resp: 26547
Ion Ratio Lower Upper
45 100
46 42.7 14.5 57.9



#15
Acetone
Concen: 1.150 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.01 min
Lab File: VL032759.D
Acq: 14 Nov 2018 15:00

Tgt Ion: 43 Resp: 163514
Ion Ratio Lower Upper
43 100
58 27.5 21.1 31.7



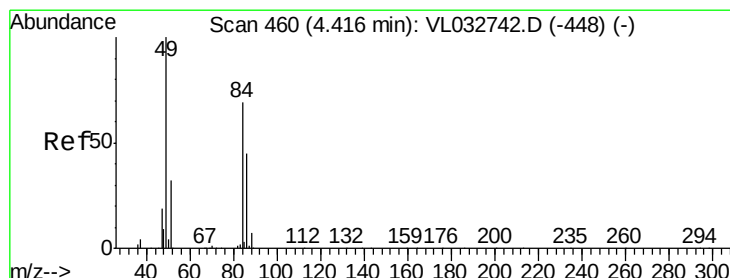
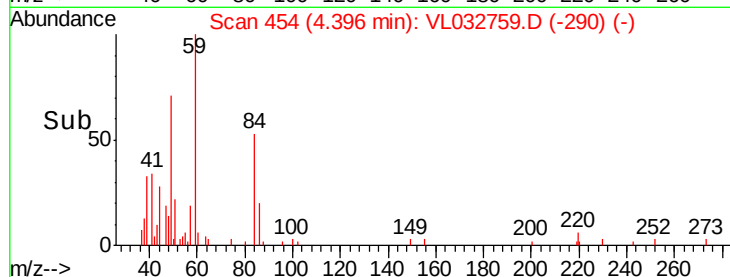
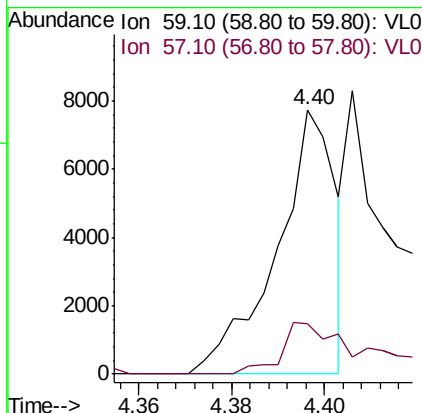
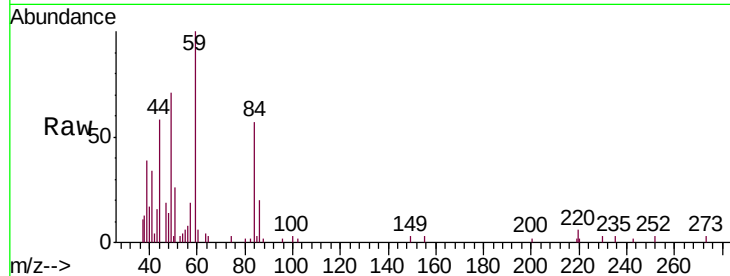


#17

tert-Butyl alcohol
 Concen: 0.153 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. 0.03 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

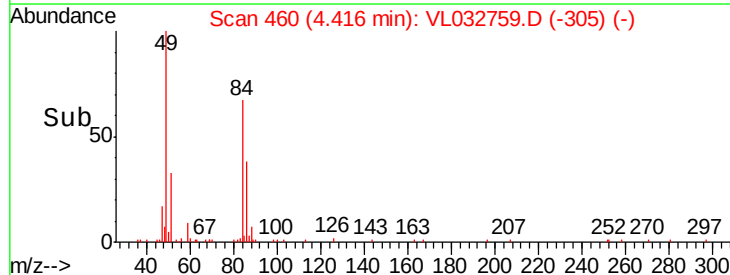
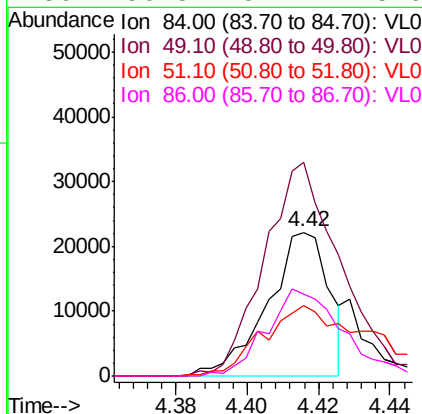
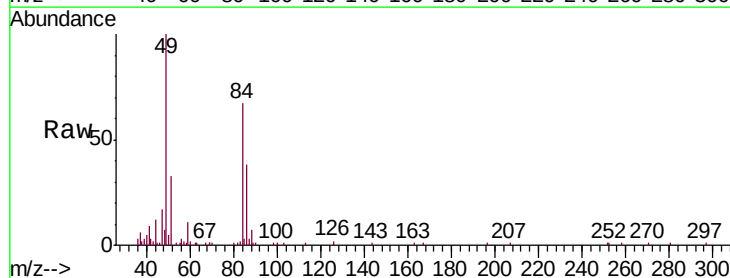
Tgt Ion: 59 Resp: 6828
 Ion Ratio Lower Upper
 59 100
 57 27.4 7.8 11.8#

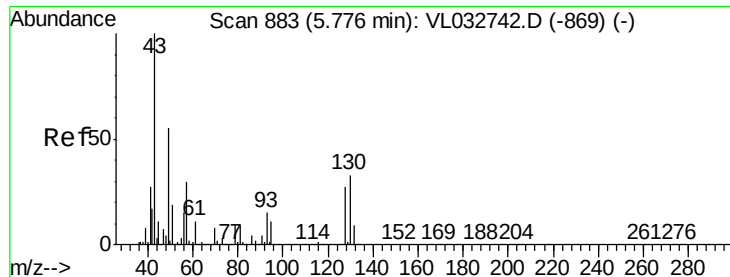


#20

Methylene Chloride
 Concen: 0.359 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Tgt Ion: 84 Resp: 26412
 Ion Ratio Lower Upper
 84 100
 49 148.0 115.8 173.6
 51 48.2 36.9 55.3
 86 56.8 52.4 78.6





#25

Ethyl Acetate

Concen: 0.109 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 36227

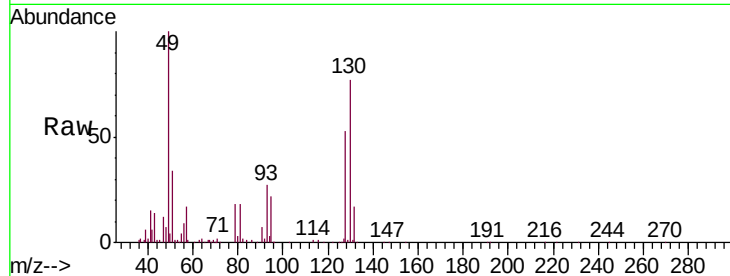
Ion Ratio Lower Upper

43 100

45 3.4 7.9 11.9#

61 0.7 7.8 11.6#

70 3.8 5.8 8.6#

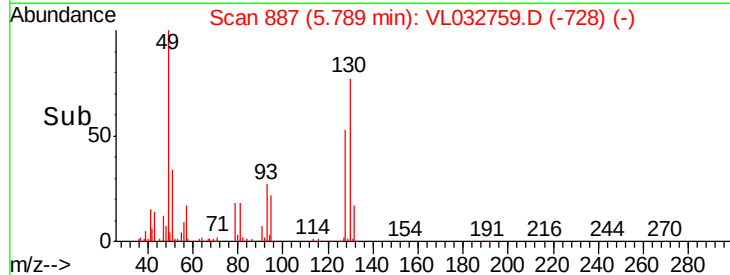
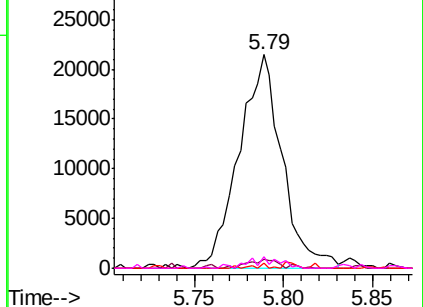


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.278 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Tgt Ion: 57 Resp: 40955

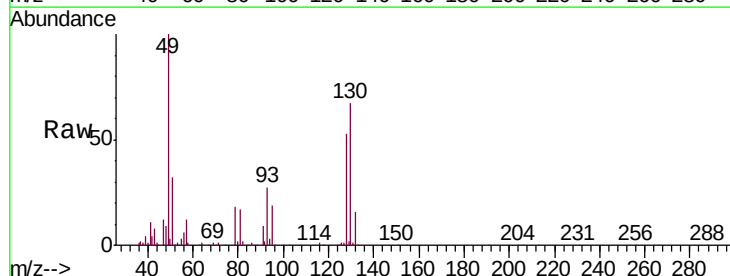
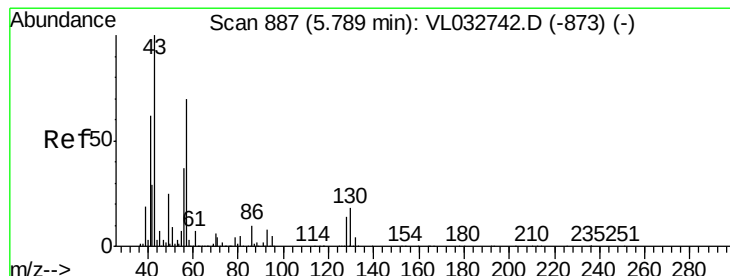
Ion Ratio Lower Upper

57 100

41 103.3 70.3 105.5

43 91.2 174.0 261.0#

56 58.5 42.3 63.5

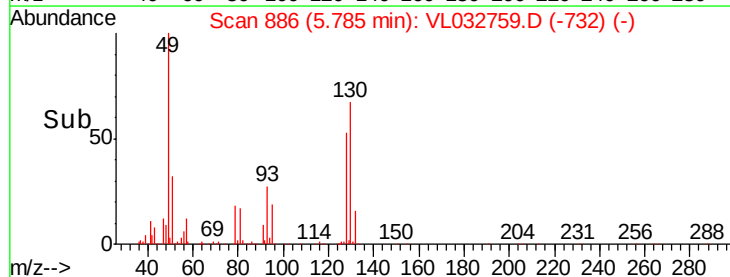
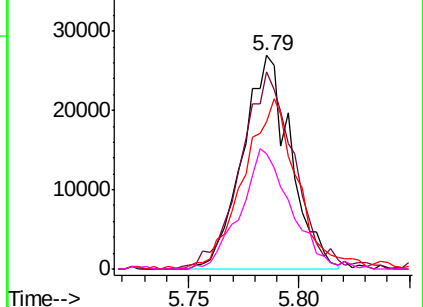


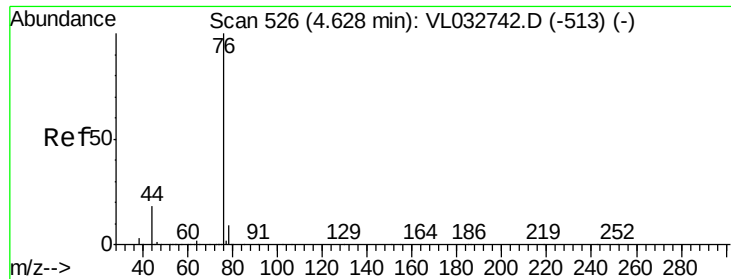
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.133 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampled :

SV1

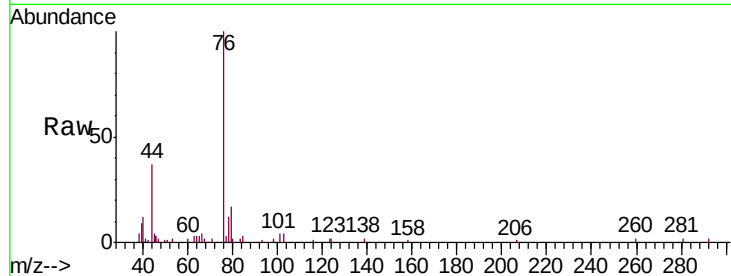
Tgt Ion: 76 Resp: 24806

Ion Ratio Lower Upper

76 100

44 54.5 14.4 21.6#

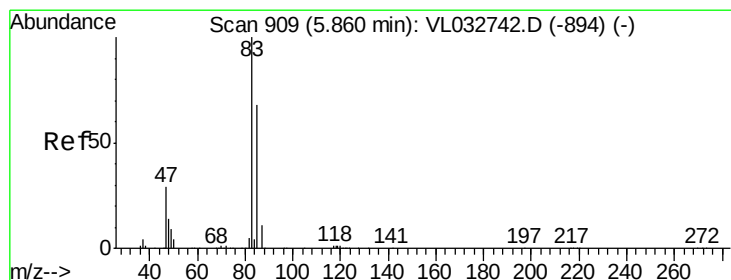
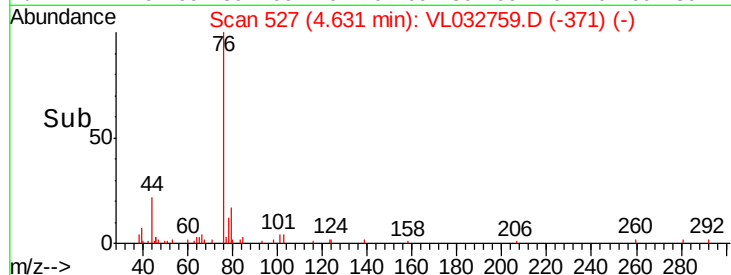
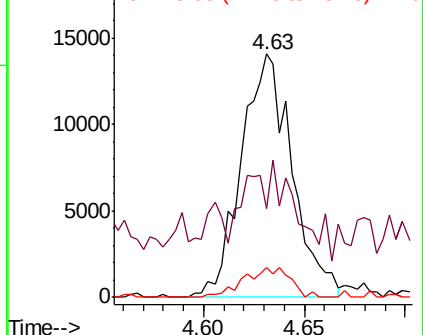
78 11.2 7.7 11.5



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



#29

Chloroform

Concen: 0.036 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL032759.D

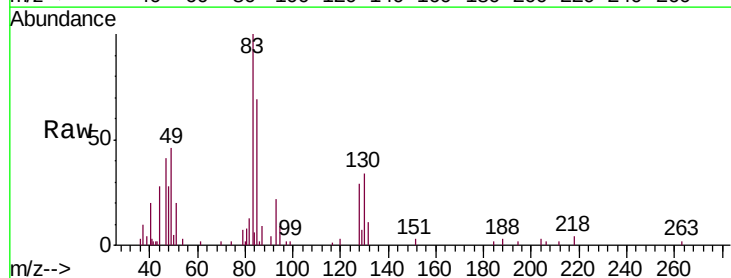
Acq: 14 Nov 2018 15:00

Tgt Ion: 83 Resp: 9420

Ion Ratio Lower Upper

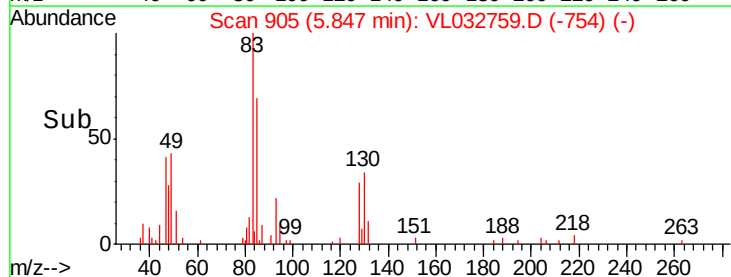
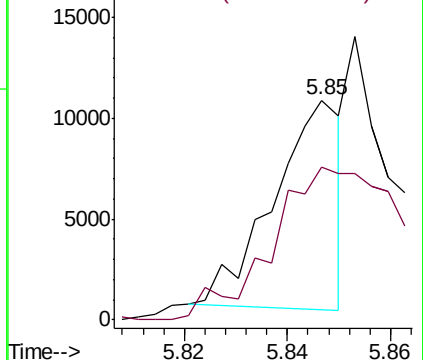
83 100

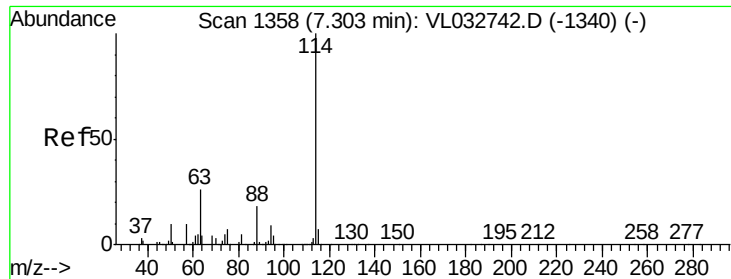
85 72.6 54.2 81.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

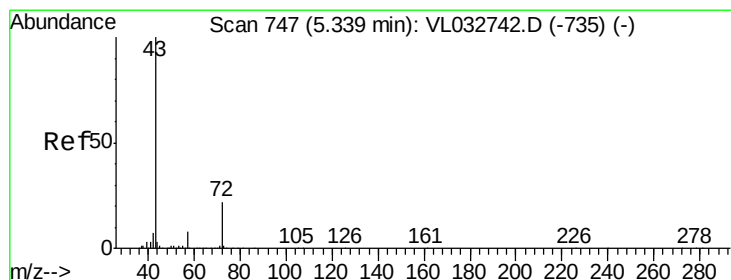
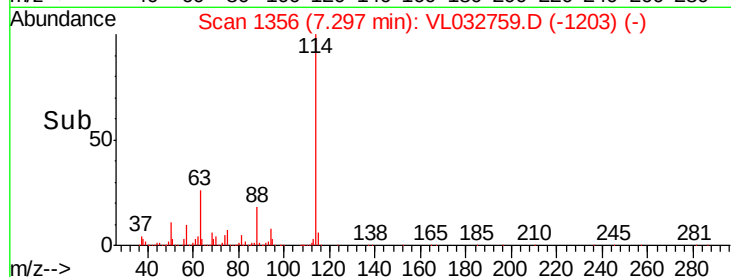
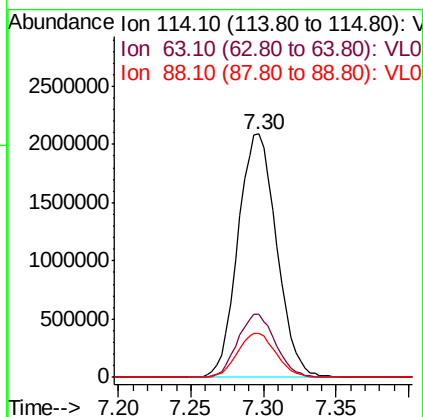
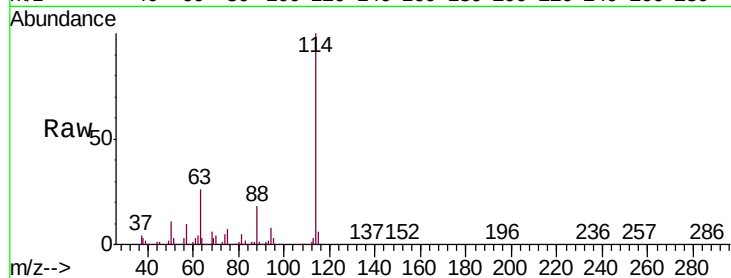




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

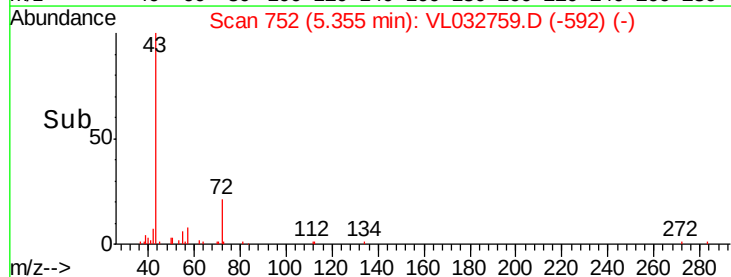
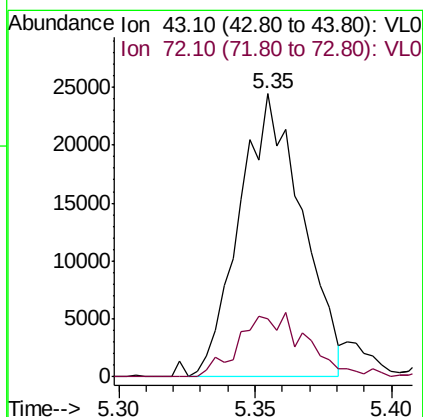
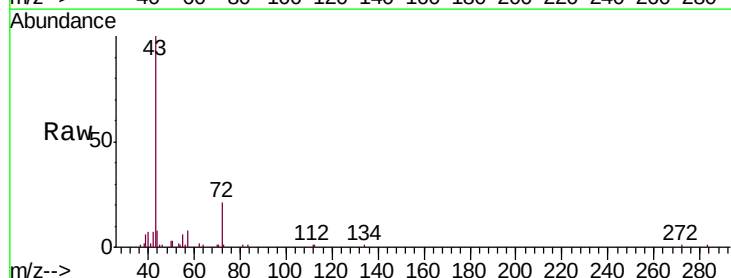
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

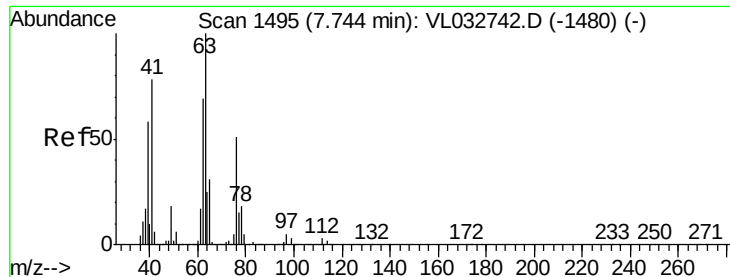
Tgt Ion:114 Resp: 3868566
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.9 31.3
 88 18.0 14.4 21.6



#34
 2-Butanone
 Concen: 0.194 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Tgt Ion: 43 Resp: 39022
 Ion Ratio Lower Upper
 43 100
 72 25.0 18.4 27.6





#39

1,2-Dichloropropane

Concen: 8.395 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampleId :

SV1

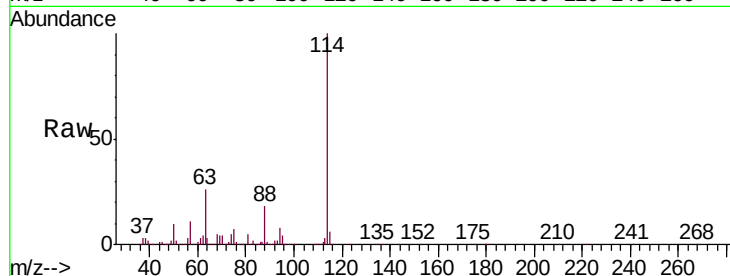
Tgt Ion: 63 Resp: 985393

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

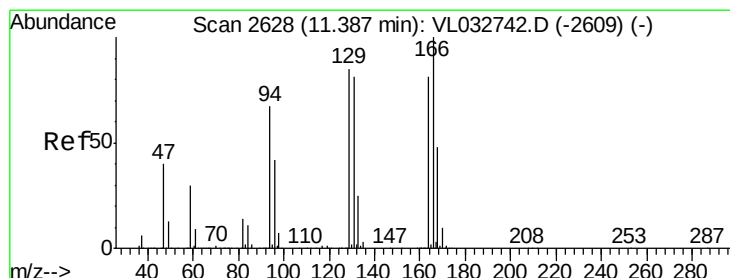
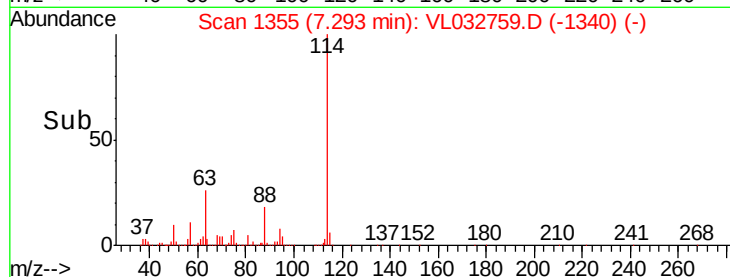
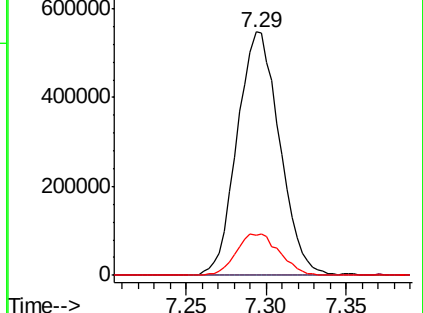
62 16.7 55.4 83.2#



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: 23.314 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Tgt Ion:164 Resp: 2498430

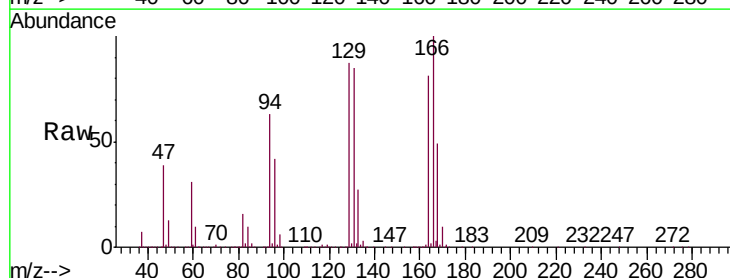
Ion Ratio Lower Upper

164 100

166 123.5 99.3 148.9

129 107.6 83.9 125.9

131 104.6 80.8 121.2

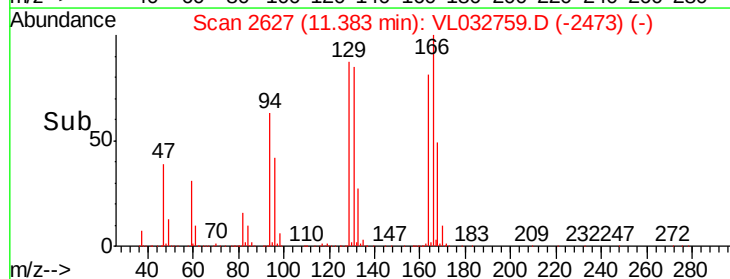
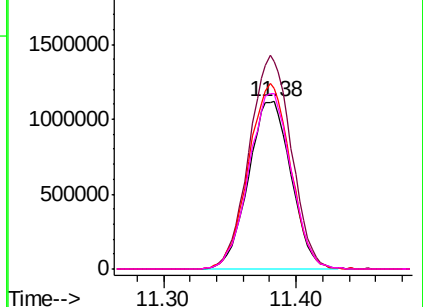


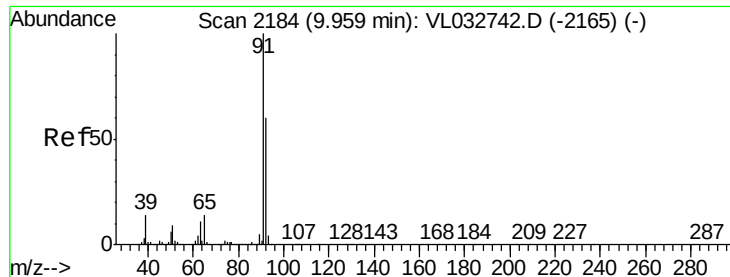
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.353 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampleId :

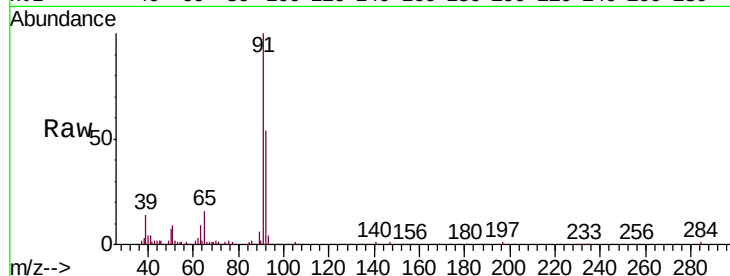
SV1

Tgt Ion: 91 Resp: 113459

Ion Ratio Lower Upper

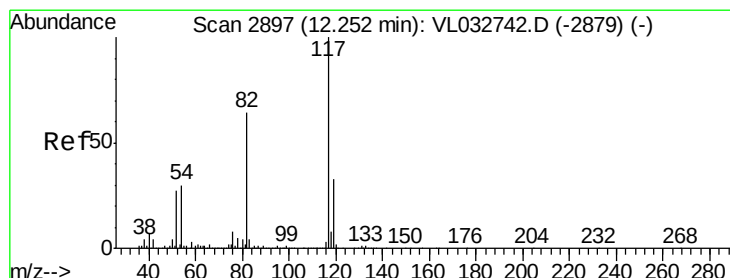
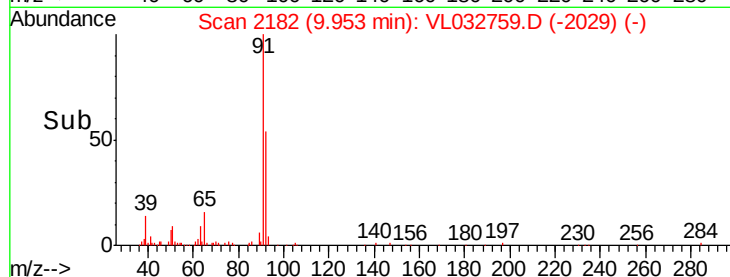
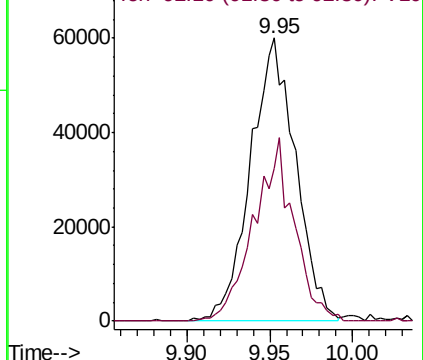
91 100

92 57.8 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# 2895

Delta R.T. -0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

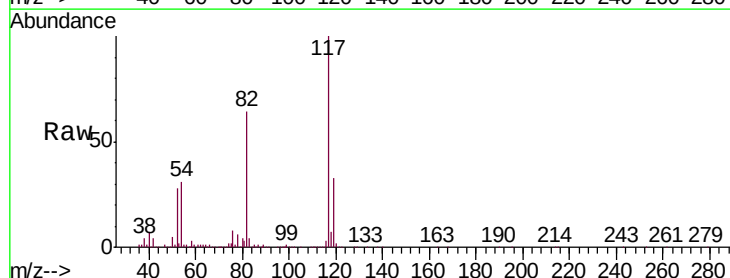
Tgt Ion: 117 Resp: 3593149

Ion Ratio Lower Upper

117 100

82 65.1 51.0 76.6

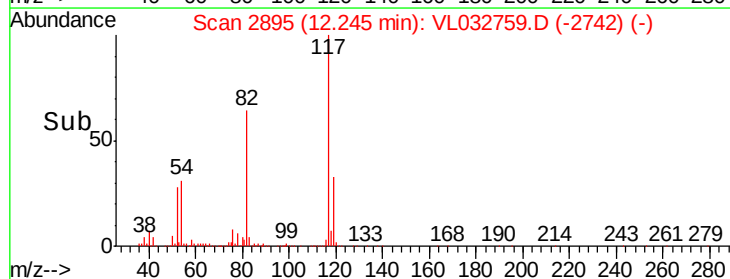
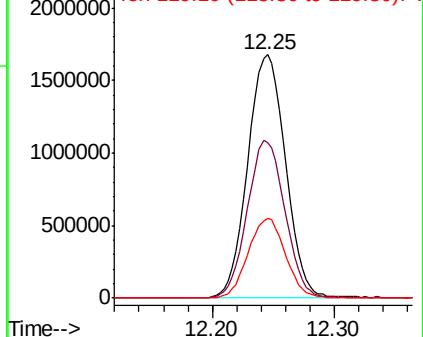
119 32.7 28.0 42.0

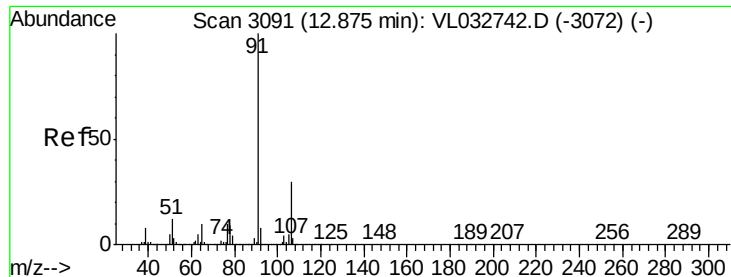


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.226 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

Instrument :

MSVOA_L

ClientSampleId :

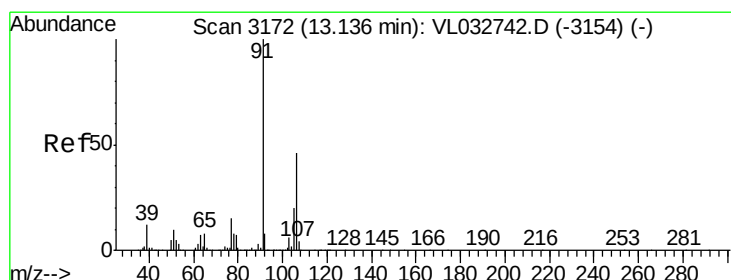
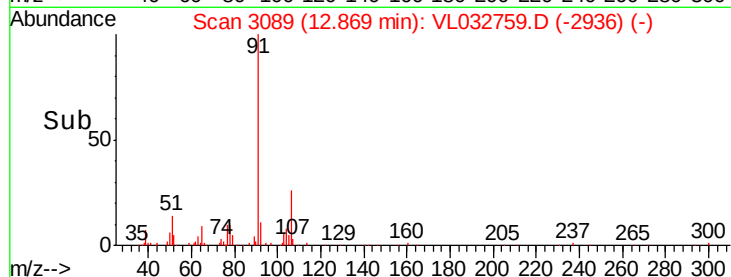
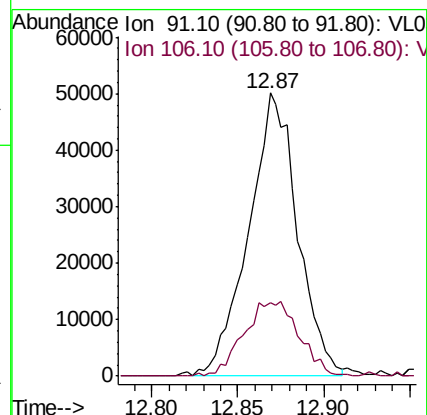
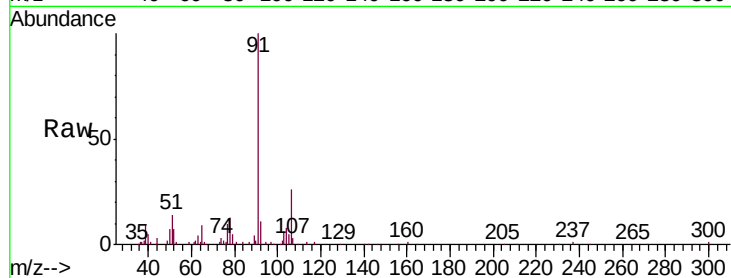
SV1

Tgt Ion: 91 Resp: 97899

Ion Ratio Lower Upper

91 100

106 25.9 23.6 35.4



#59

m/p-Xylene

Concen: 0.797 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL032759.D

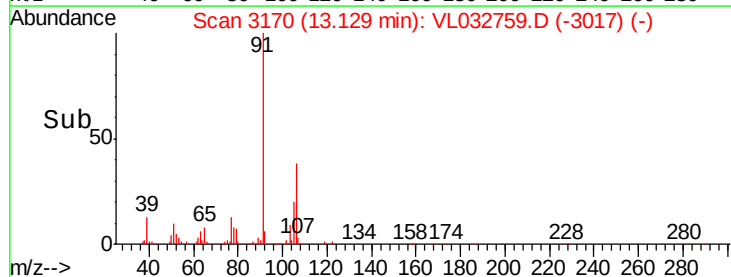
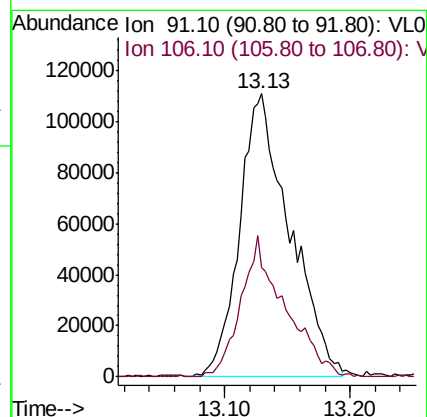
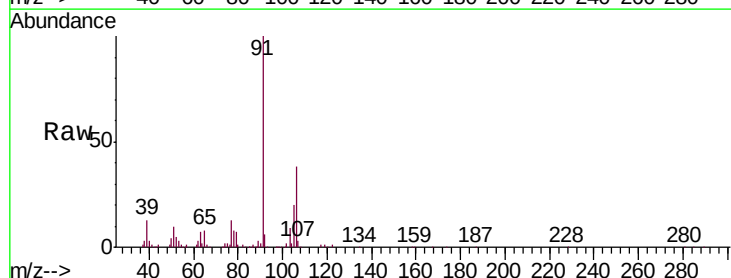
Acq: 14 Nov 2018 15:00

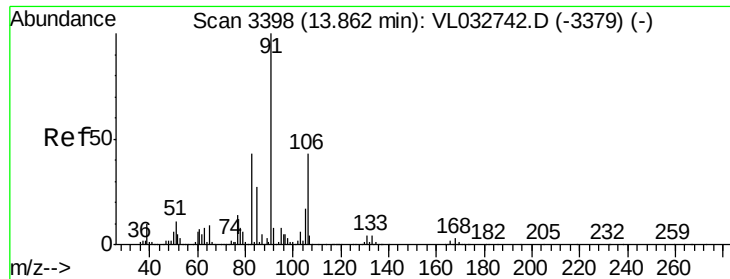
Tgt Ion: 91 Resp: 306899

Ion Ratio Lower Upper

91 100

106 43.8 36.1 54.1

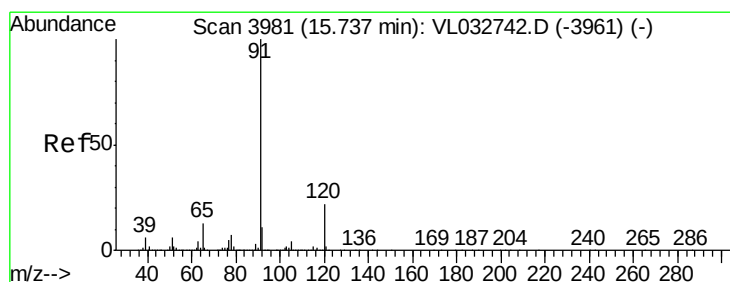
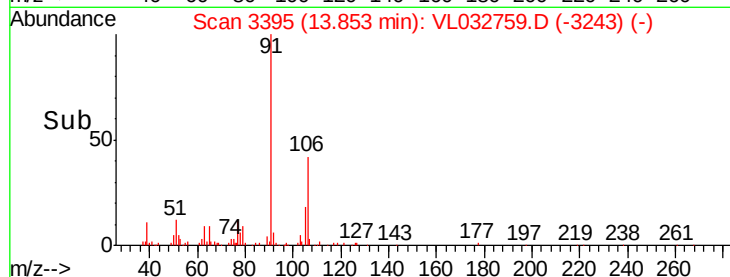
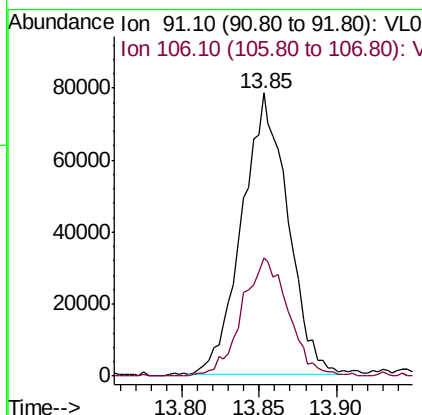
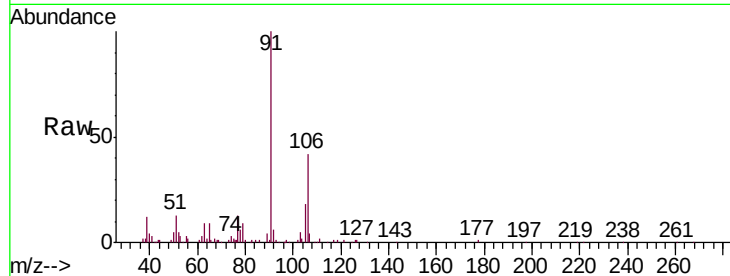




#60
o-Xylene
Concen: 0.414 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032759.D
Acq: 14 Nov 2018 15:00

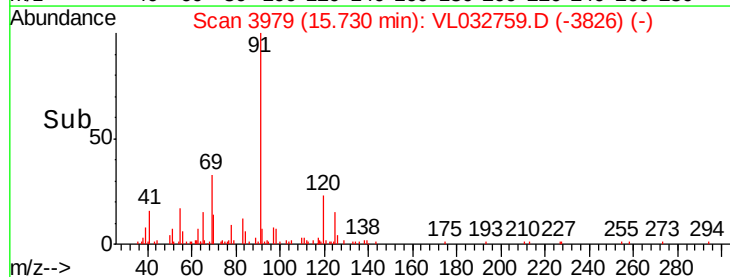
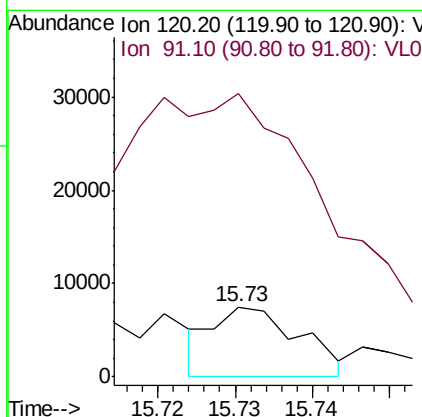
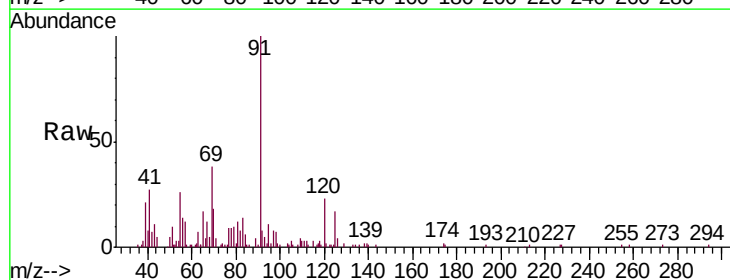
Instrument :
MSVOA_L
ClientSampled :
SV1

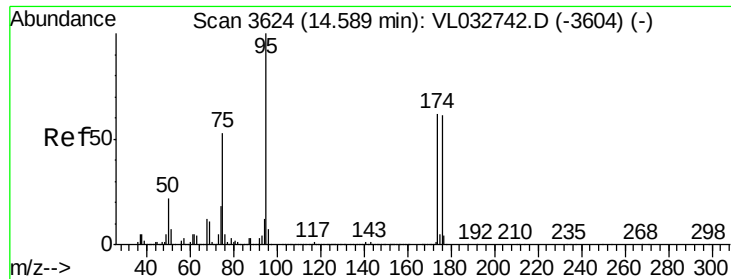
Tgt Ion: 91 Resp: 160382
Ion Ratio Lower Upper
91 100
106 42.9 21.9 65.7



#64
n-propylbenzene
Concen: 0.042 ppbv
RT: 15.73 min Scan# 3979
Delta R.T. -0.01 min
Lab File: VL032759.D
Acq: 14 Nov 2018 15:00

Tgt Ion: 120 Resp: 5820
Ion Ratio Lower Upper
120 100
91 1256.2 381.7 572.5#

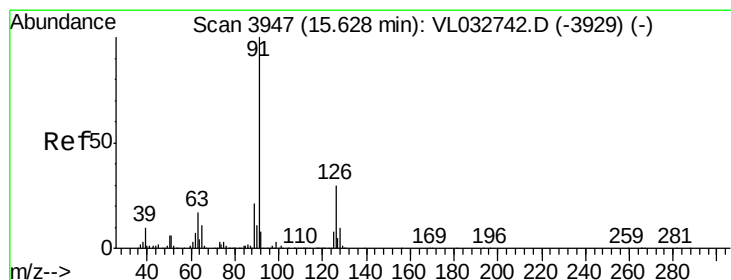
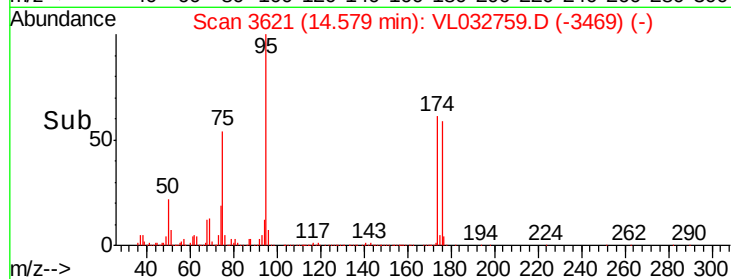
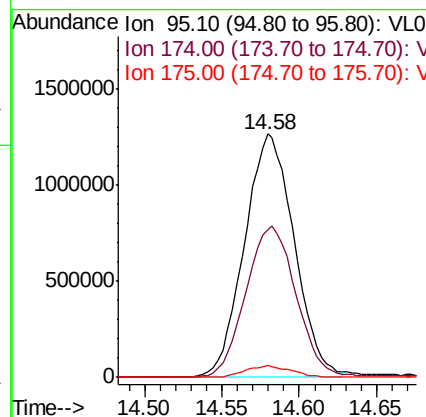
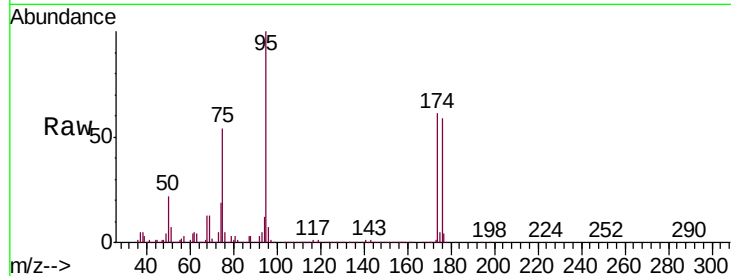




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.477 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

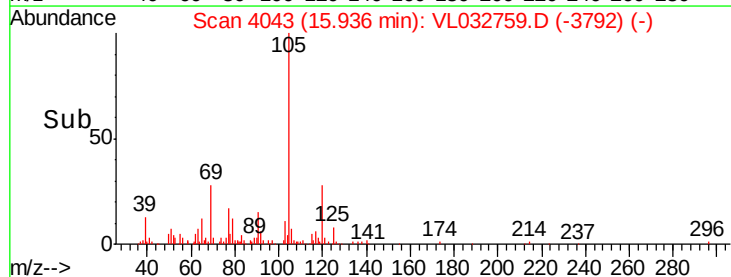
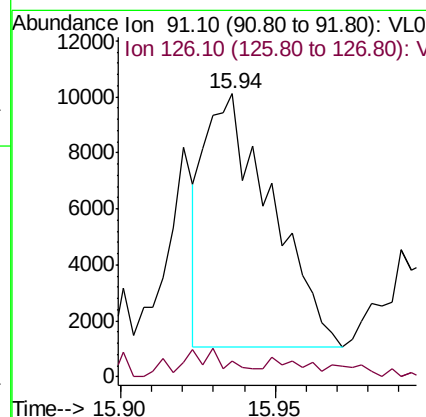
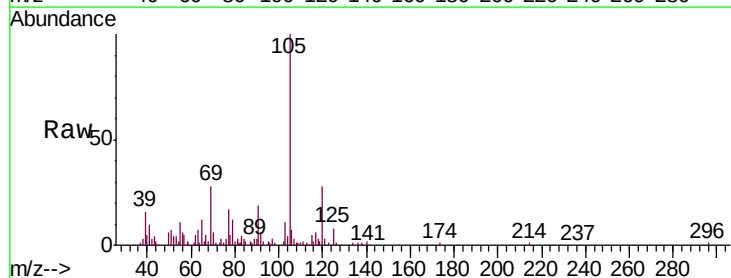
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

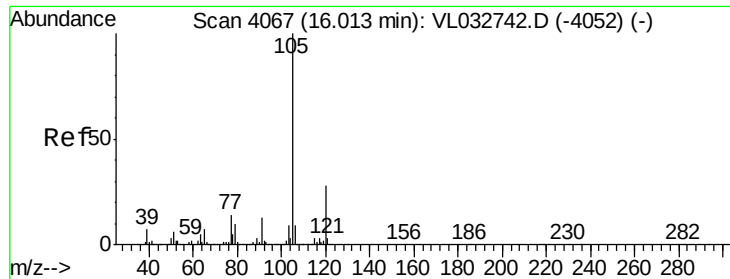
Tgt Ion: 95 Resp: 2815568
 Ion Ratio Lower Upper
 95 100
 174 64.1 50.7 76.1
 175 4.6 3.8 5.6



#71
 2-Chlorotoluene
 Concen: 0.035 ppbv
 RT: 15.94 min Scan# 4043
 Delta R.T. 0.31 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Tgt Ion: 91 Resp: 13606
 Ion Ratio Lower Upper
 91 100
 126 15.0 12.1 48.5





#72

4-Ethyltoluene

Concen: 0.129 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

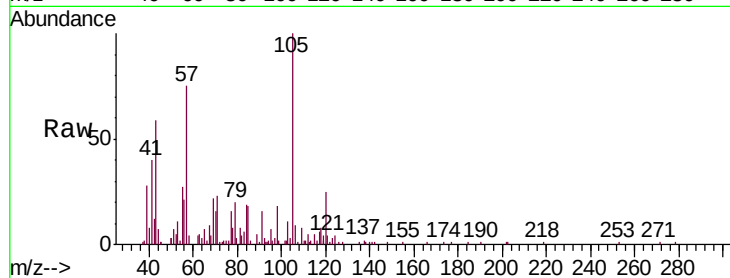
Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:	105	Resp:	54792
Ion	Ratio	Lower	Upper
105	100		
120	32.8	22.9	34.3
91	17.1	10.6	15.8#
77	13.7	11.4	17.2



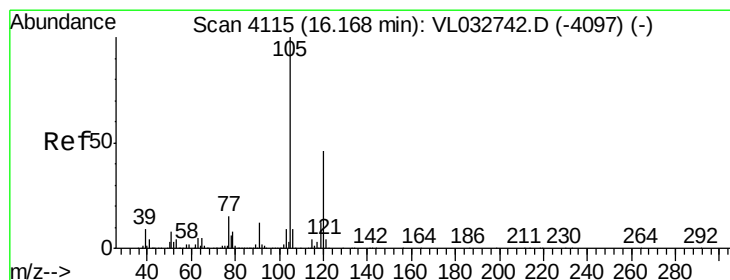
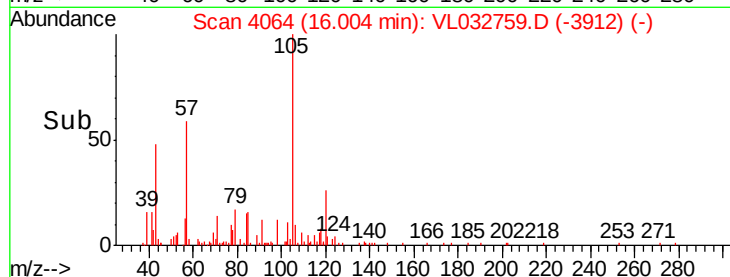
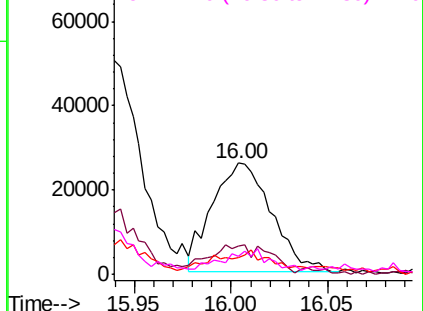
Abundance

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



#73

1,3,5-Trimethylbenzene

Concen: 0.070 ppbv

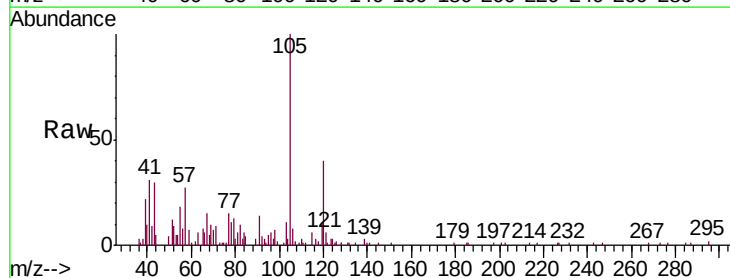
RT: 16.16 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL032759.D

Acq: 14 Nov 2018 15:00

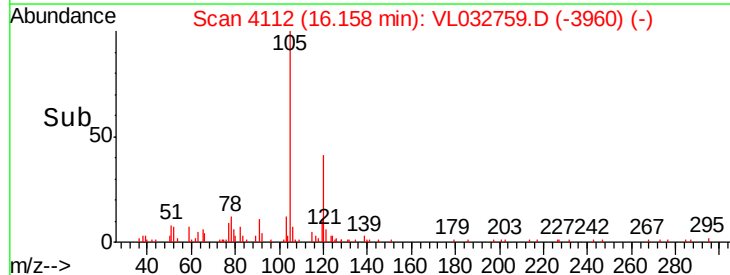
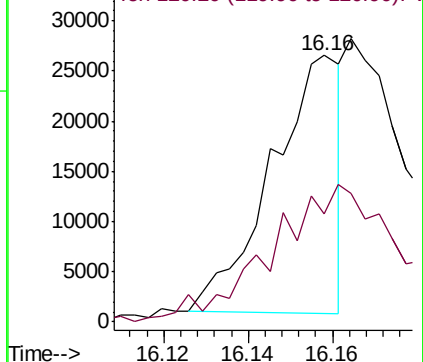
Tgt Ion:	105	Resp:	29159
Ion	Ratio	Lower	Upper
105	100		
120	31.5	36.6	55.0#

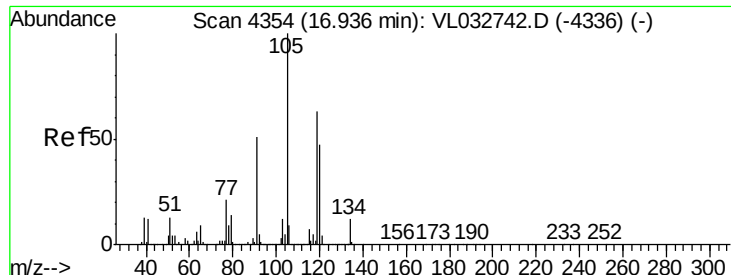


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.453 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL032759.D
 Acq: 14 Nov 2018 15:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion:	105	Resp:	201115
Ion Ratio	Lower	Upper	
105	100		
120	39.2	37.6	56.4
91	9.4	42.5	63.7#
77	14.0	17.4	26.2#

