

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032476.D
 Acq On : 6 Sep 2018 4:29
 Operator : SY/AP
 Sample : J4745-03DL 20X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01DL

Quant Time: Sep 06 05:03:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1490197	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3012457	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	2886516	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2198335	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

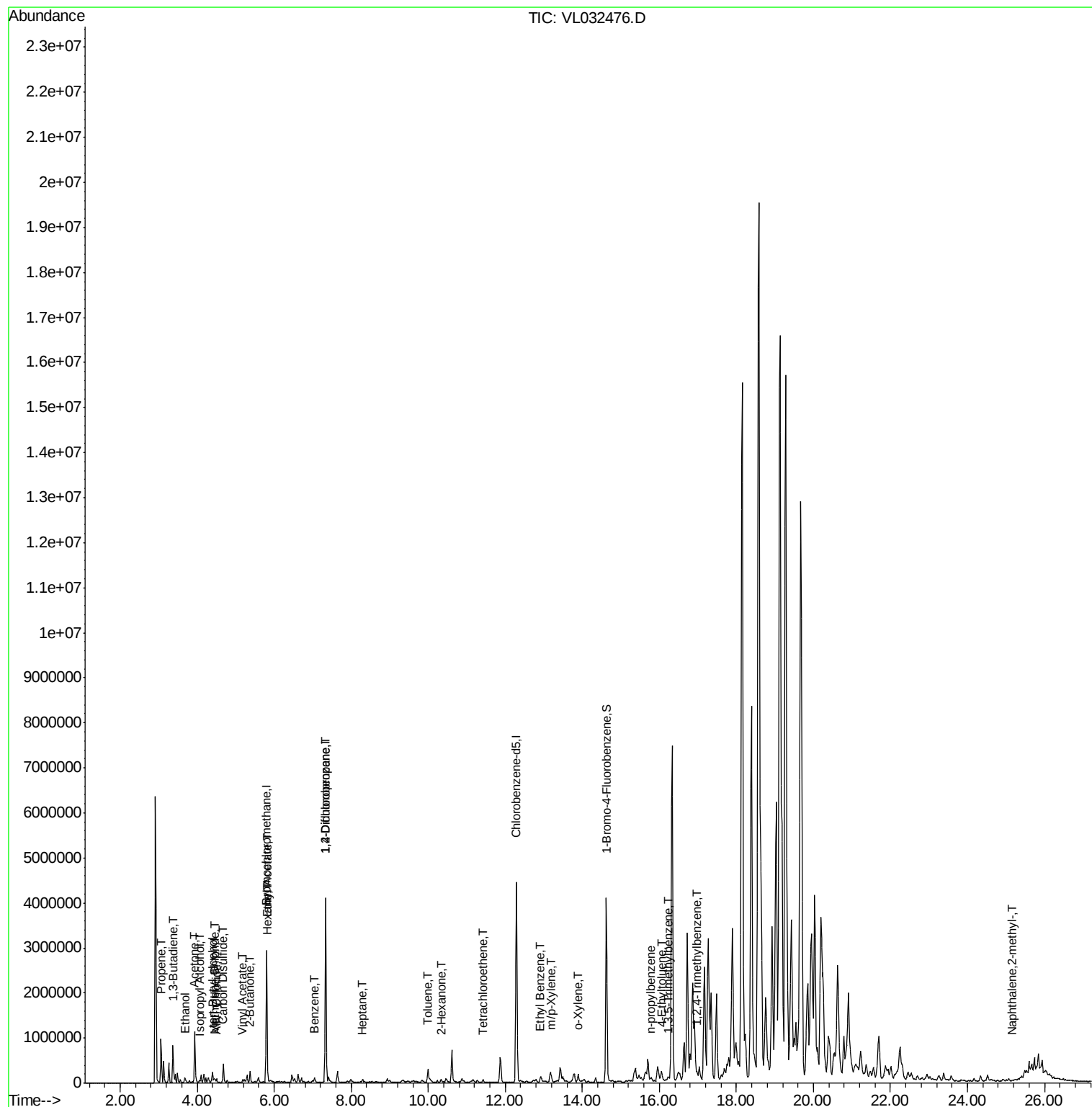
Target Compounds					Qvalue
9) Propene	3.06	41	407421	7.487 ppbv	96
10) Heptane	8.30	43	12892	0.066 ppbv #	1
13) Ethanol	3.68	45	127117	7.494 ppbv	99
15) Acetone	3.93	43	1120157	8.347 ppbv	95
16) 1,3-Butadiene	3.37	39	266632	4.222 ppbv #	21
17) tert-Butyl alcohol	4.40	59	178288	8.633 ppbv #	100
19) Isopropyl Alcohol	4.07	45	22926	0.260 ppbv #	1
20) Methylene Chloride	4.44	84	25854	0.505 ppbv #	82
21) Allyl Chloride	4.50	41	3939	0.044 ppbv #	1
23) Vinyl Acetate	5.19	43	40087	0.180 ppbv #	73
25) Ethyl Acetate	5.82	43	24236	0.076 ppbv #	89
26) Hexane	5.82	57	57165	0.403 ppbv #	40
27) Carbon Disulfide	4.66	76	17395	0.133 ppbv #	57
34) 2-Butanone	5.37	43	286995	1.434 ppbv	99
36) Benzene	7.05	78	79425	0.310 ppbv	97
39) 1,2-Dichloropropane	7.33	63	802901	7.320 ppbv #	25
51) 2-Hexanone	10.33	43	23479	0.121 ppbv #	15
52) Tetrachloroethene	11.42	164	7653	0.096 ppbv #	73
53) Toluene	9.99	91	219770	0.820 ppbv	99
58) Ethyl Benzene	12.91	91	44369	0.128 ppbv	92
59) m/p-Xylene	13.19	91	70956	0.230 ppbv #	31
60) o-Xylene	13.90	91	70607	0.233 ppbv	92
64) n-propylbenzene	15.77	120	6866	0.062 ppbv #	19
72) 4-Ethyltoluene	16.05	105	23221	0.070 ppbv #	46
73) 1,3,5-Trimethylbenzene	16.21	105	14685	0.044 ppbv #	74
74) 1,2,4-Trimethylbenzene	16.97	105	115407	0.319 ppbv #	65
80) Naphthalene,2-methyl-	25.16	142	3557	0.045 ppbv #	78

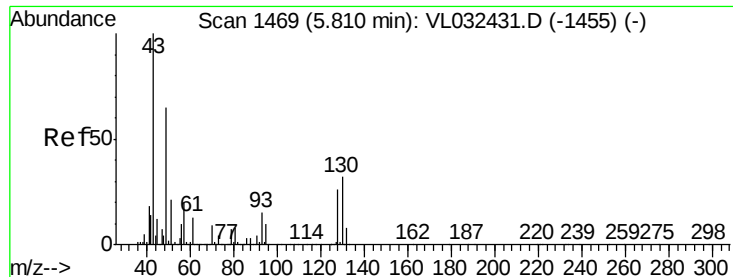
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

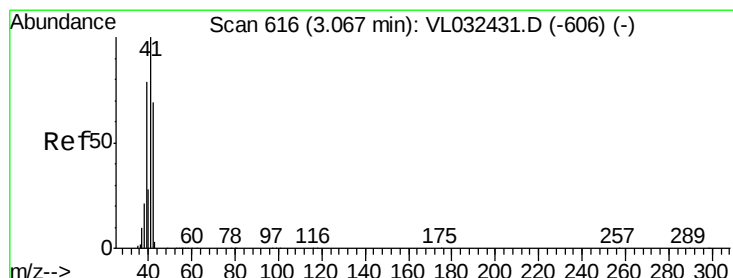
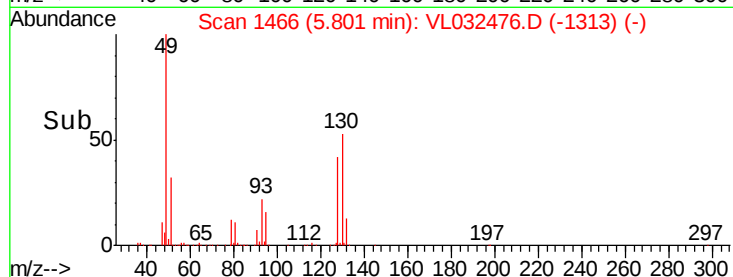
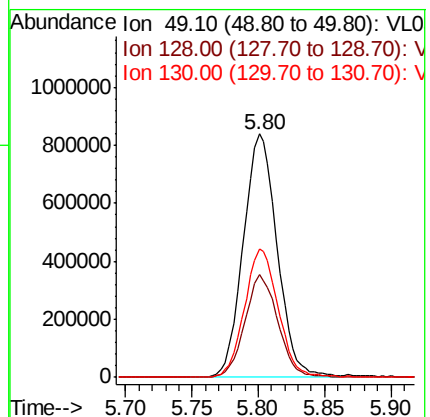
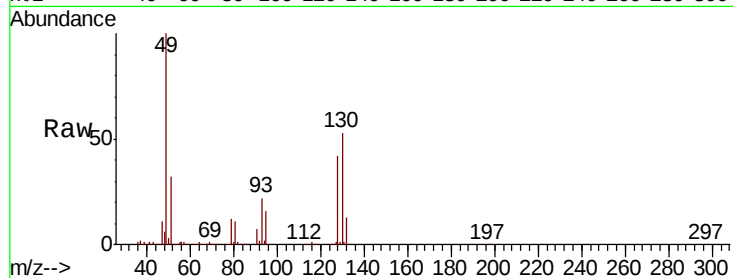
Tgt Ion: 49 Resp: 1490197

Ion Ratio Lower Upper

49 100

128 41.5 20.7 62.1

130 52.8 26.6 79.7



#9

Propene

Concen: 7.487 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032476.D

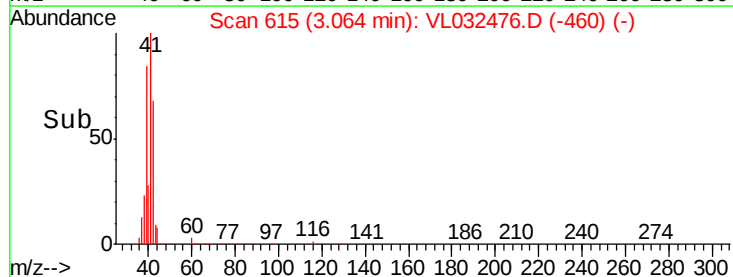
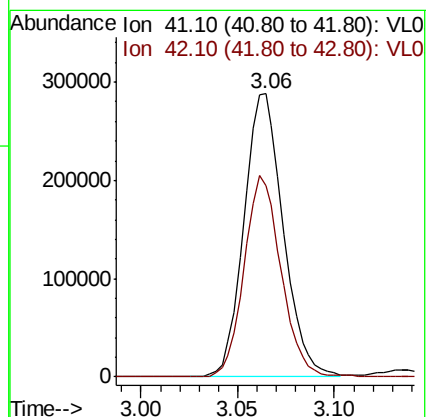
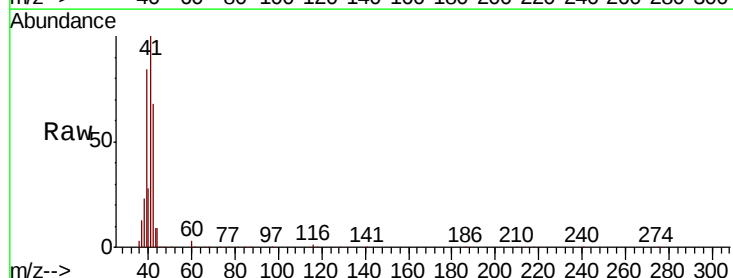
Acq: 6 Sep 2018 4:29

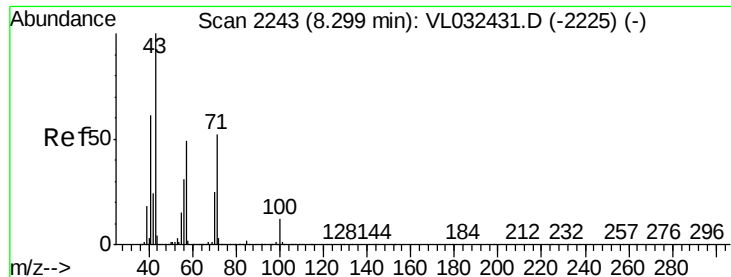
Tgt Ion: 41 Resp: 407421

Ion Ratio Lower Upper

41 100

42 67.1 56.6 84.8

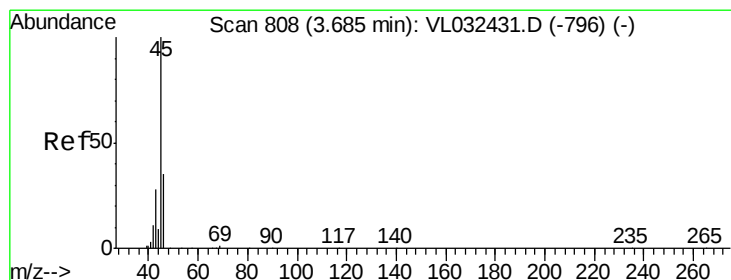
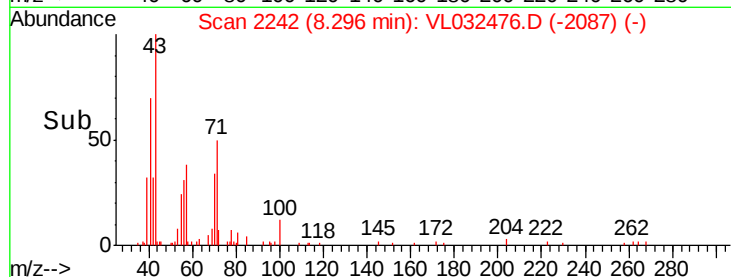
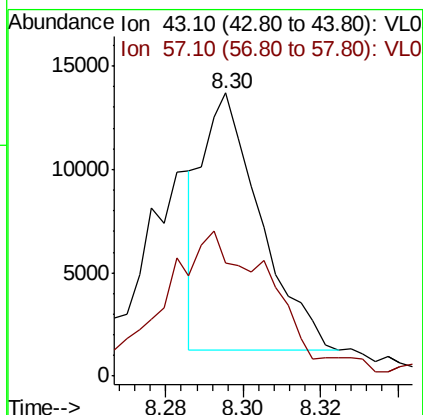
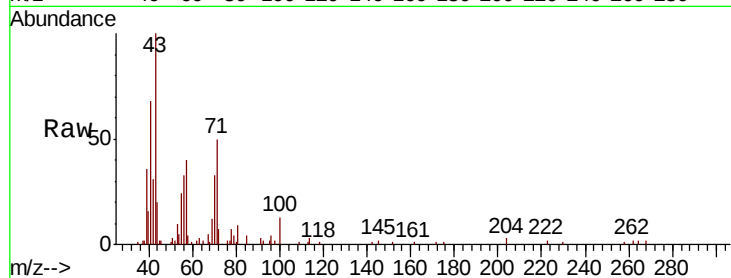




#10
 Heptane
 Concen: 0.066 ppbv
 RT: 8.30 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

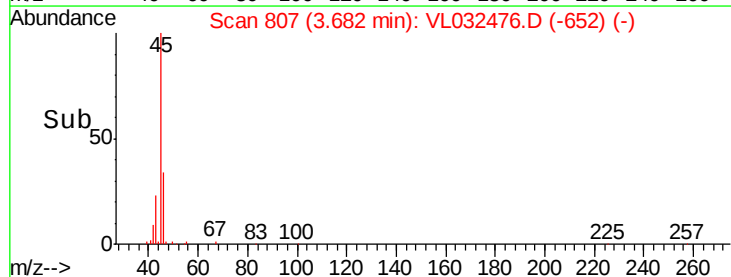
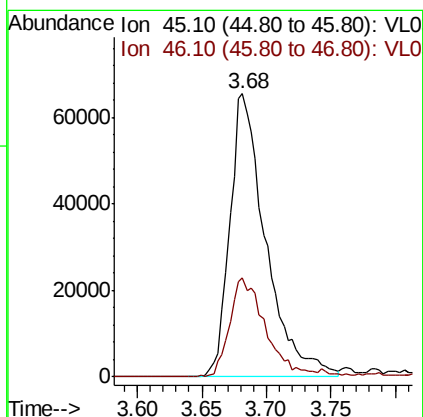
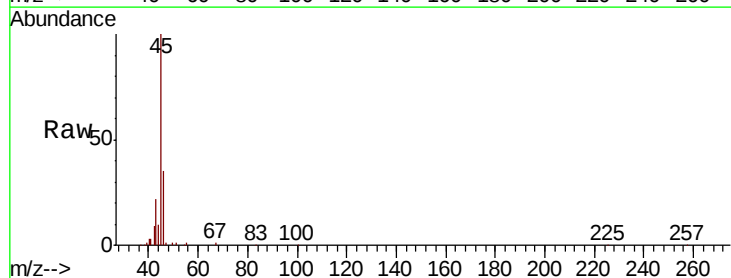
Instrument :
 MSVOA_L
 ClientSampleID :
 VP-01DL

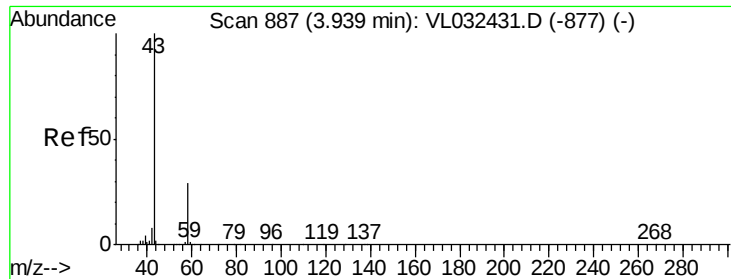
Tgt Ion: 43 Resp: 12892
 Ion Ratio Lower Upper
 43 100
 57 118.9 39.6 59.4#



#13
 Ethanol
 Concen: 7.494 ppbv
 RT: 3.68 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

Tgt Ion: 45 Resp: 127117
 Ion Ratio Lower Upper
 45 100
 46 35.8 14.2 56.8





#15

Acetone

Concen: 8.347 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

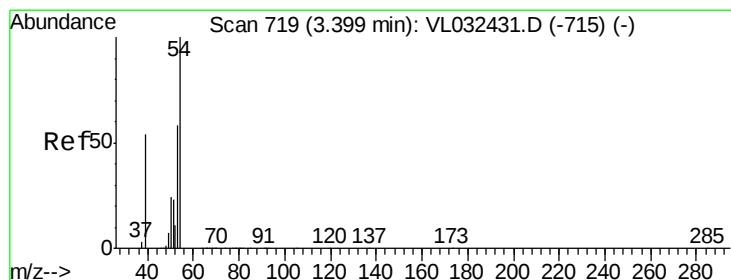
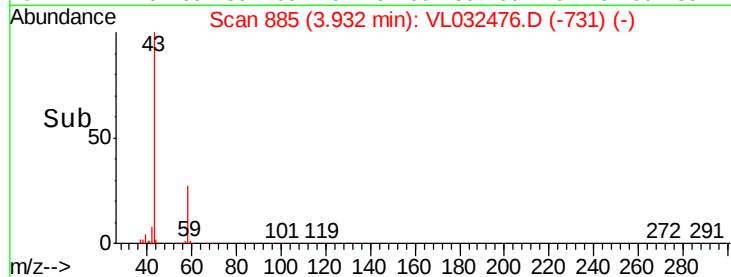
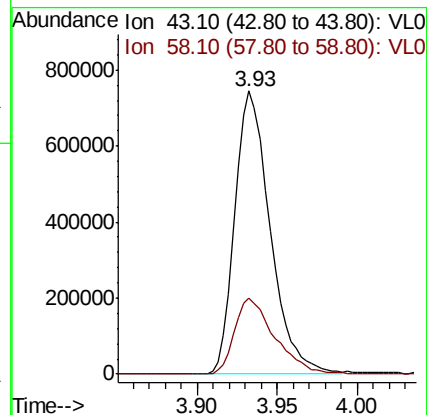
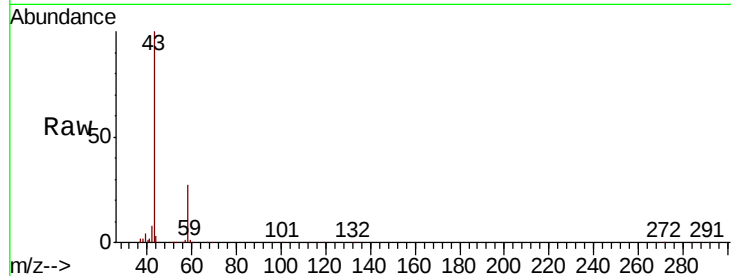
VP-01DL

Tgt Ion: 43 Resp: 1120157

Ion Ratio Lower Upper

43 100

58 31.1 22.6 33.8



#16

1,3-Butadiene

Concen: 4.222 ppbv

RT: 3.37 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL032476.D

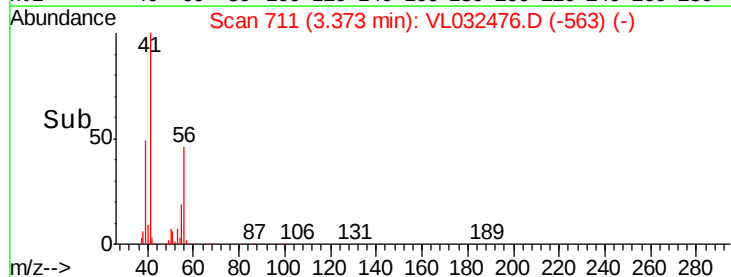
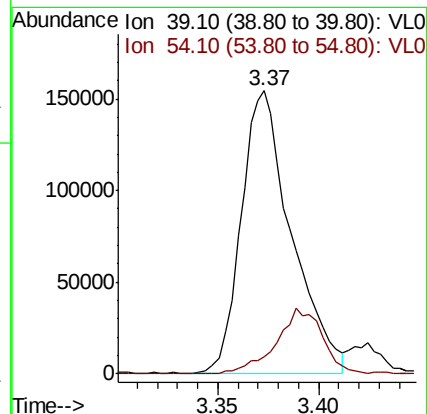
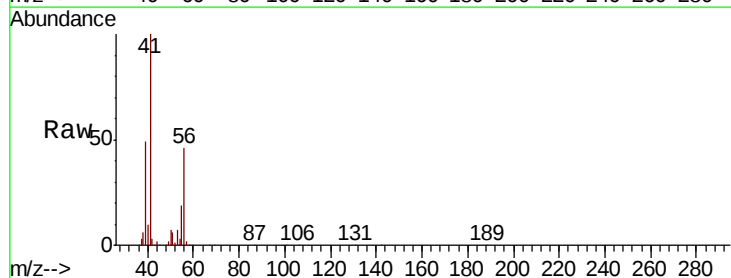
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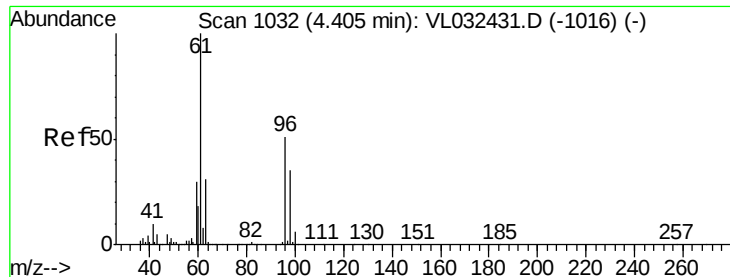
Tgt Ion: 39 Resp: 266632

Ion Ratio Lower Upper

39 100

54 21.6 80.8 121.2#

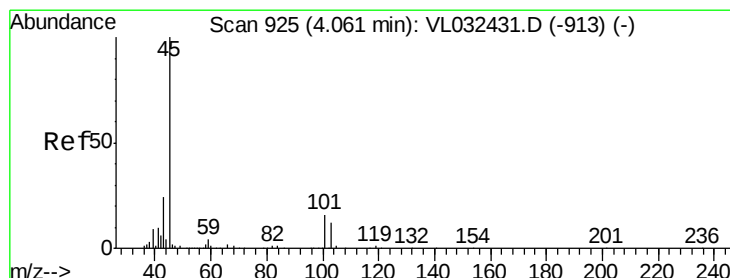
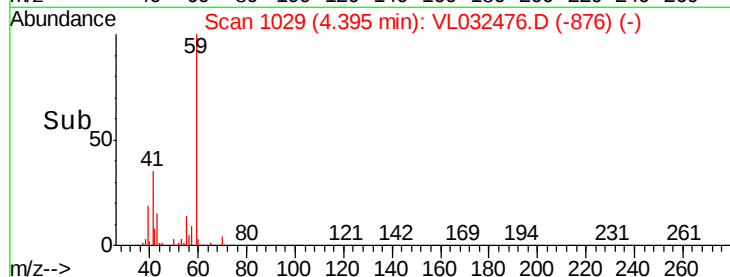
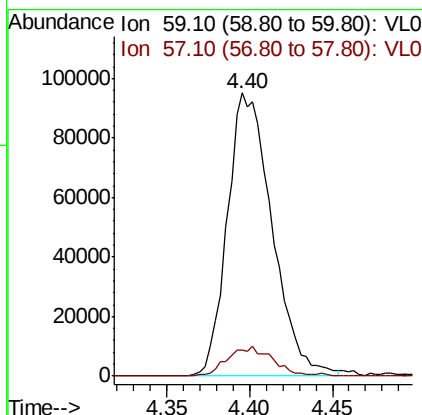
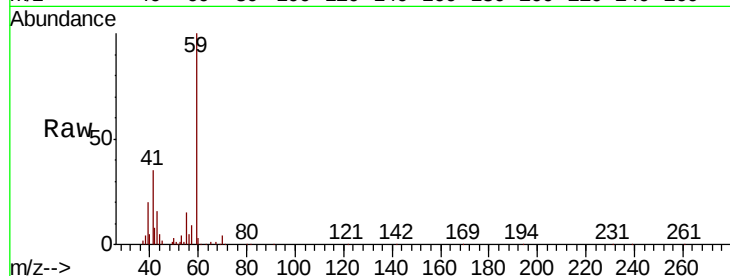




#17
 tert-Butyl alcohol
 Concen: 8.633 ppbv
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

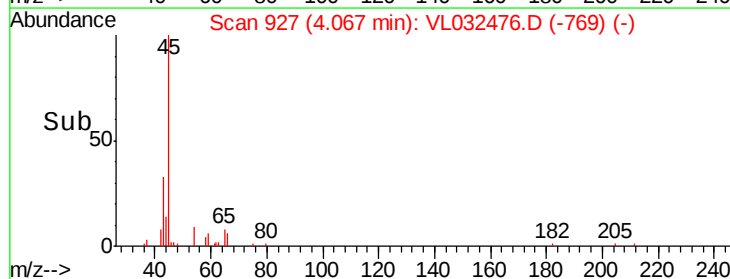
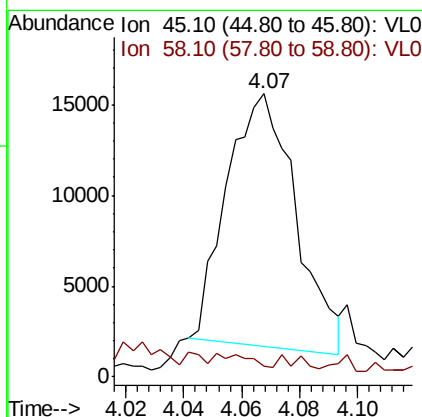
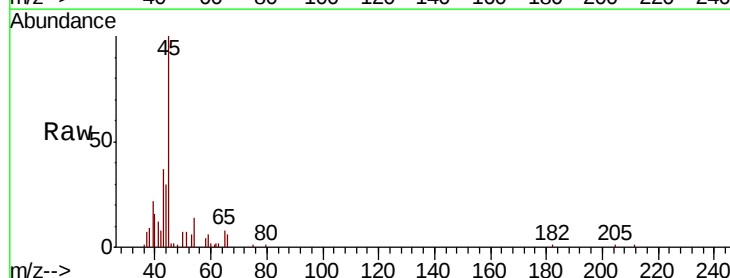
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01DL

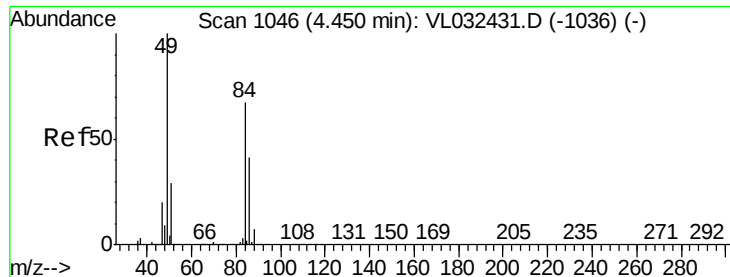
Tgt Ion: 59 Resp: 178288
 Ion Ratio Lower Upper
 59 100
 57 11.0 0.0 0.0#



#19
 Isopropyl Alcohol
 Concen: 0.260 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.01 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

Tgt Ion: 45 Resp: 22926
 Ion Ratio Lower Upper
 45 100
 58 1513.5 2.0 3.0#





#20

Methylene Chloride

Concen: 0.505 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

Tgt Ion: 84 Resp: 25854

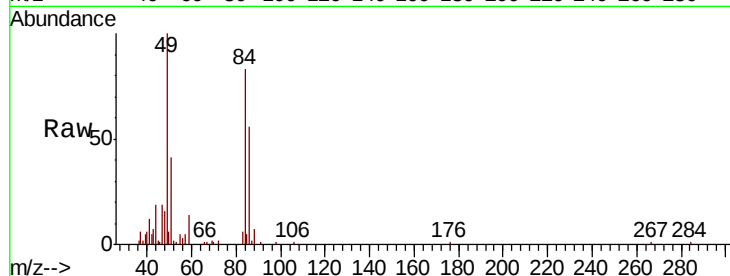
Ion Ratio Lower Upper

84 100

49 117.1 119.1 178.7#

51 40.1 35.2 52.8

86 68.3 49.4 74.2

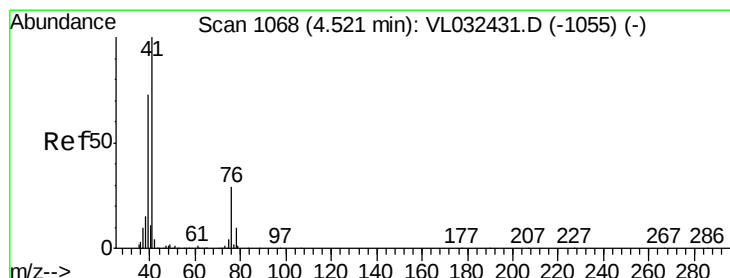
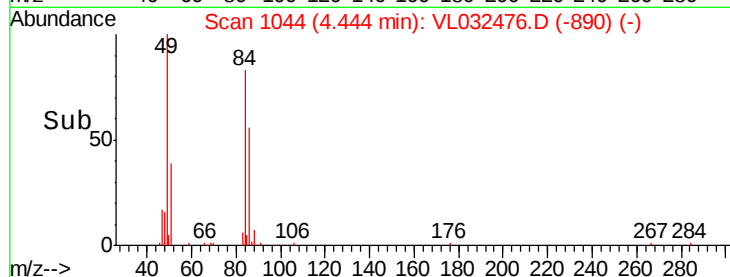
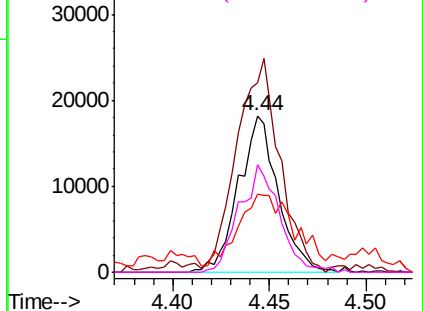


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 0.044 ppbv

RT: 4.50 min Scan# 1061

Delta R.T. -0.02 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

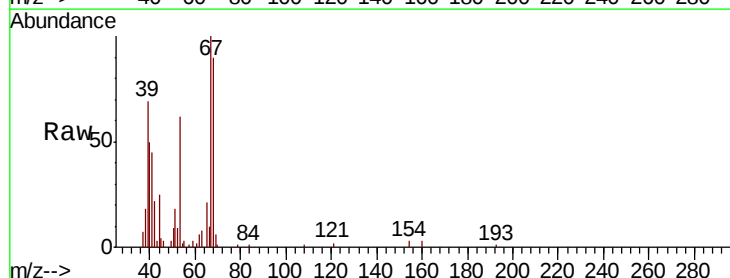
Tgt Ion: 41 Resp: 3939

Ion Ratio Lower Upper

41 100

76 0.0 23.6 35.4#

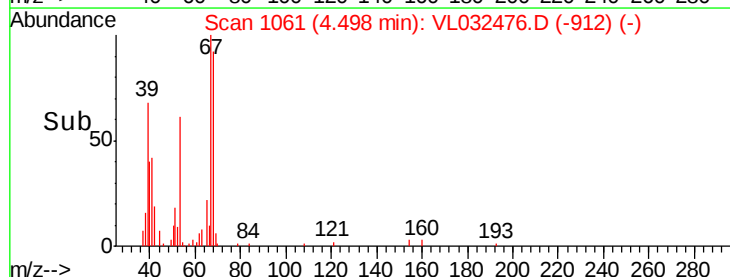
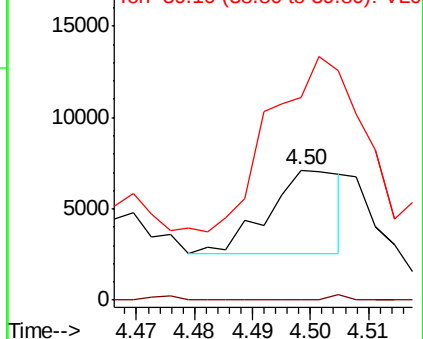
39 568.5 57.7 86.5#

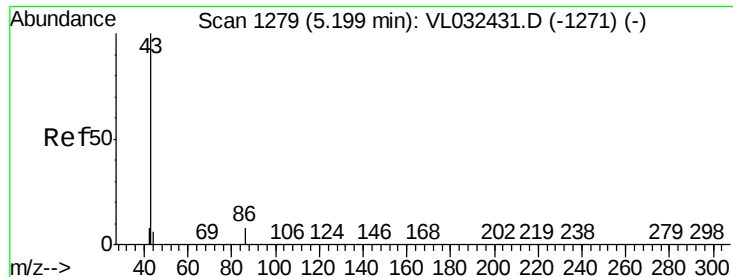


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.180 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

Tgt Ion: 43 Resp: 40087

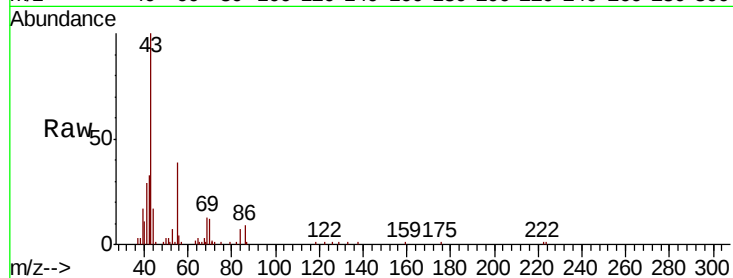
Ion Ratio Lower Upper

43 100

86 10.4 5.9 8.9#

42 28.9 6.9 10.3#

44 3.5 4.6 7.0#

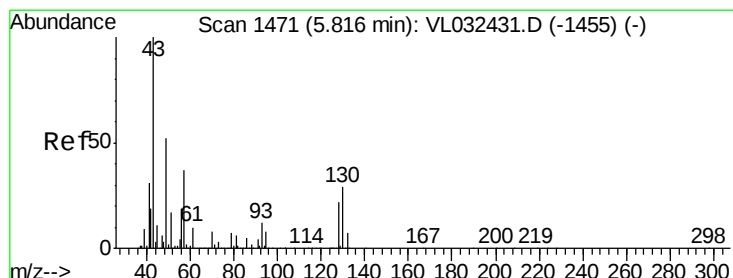
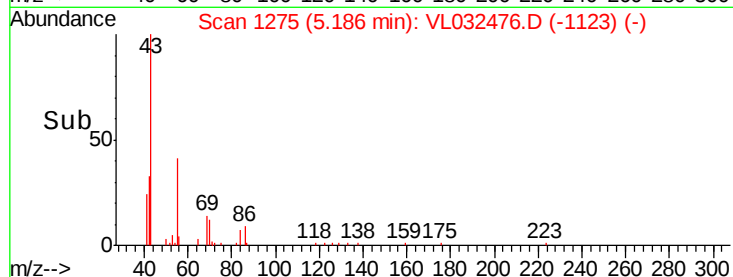
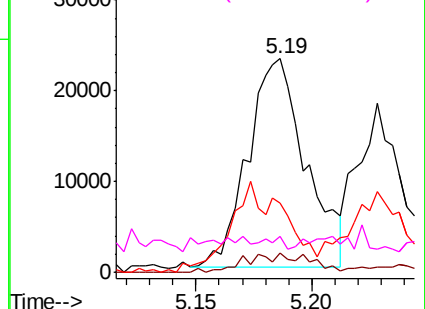


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.076 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Tgt Ion: 43 Resp: 24236

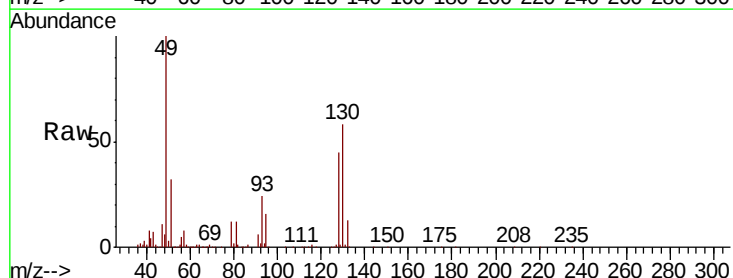
Ion Ratio Lower Upper

43 100

45 6.1 8.0 12.0#

61 3.1 7.6 11.4#

70 8.6 5.8 8.8

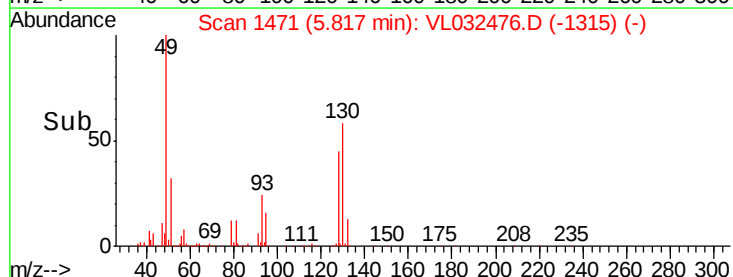
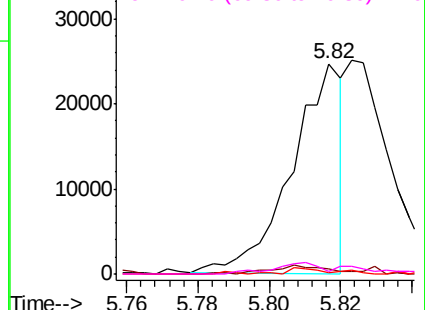


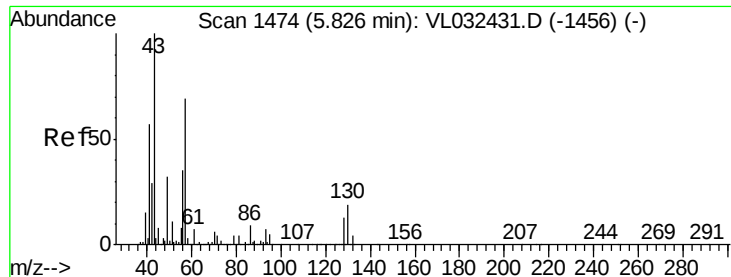
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

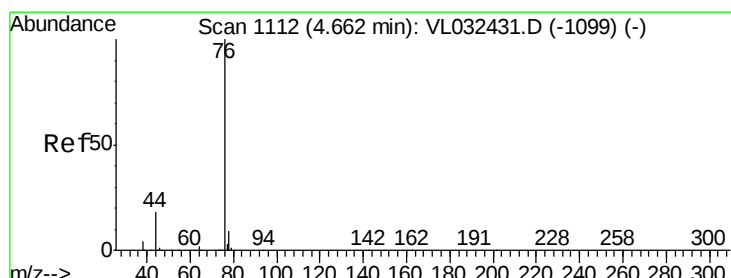
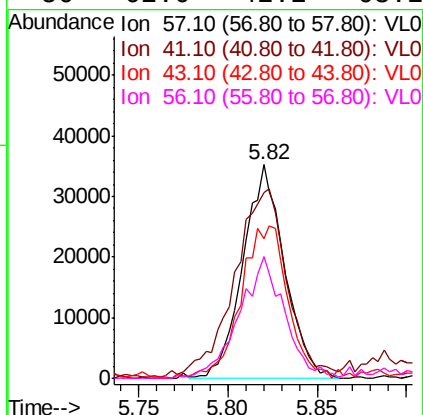
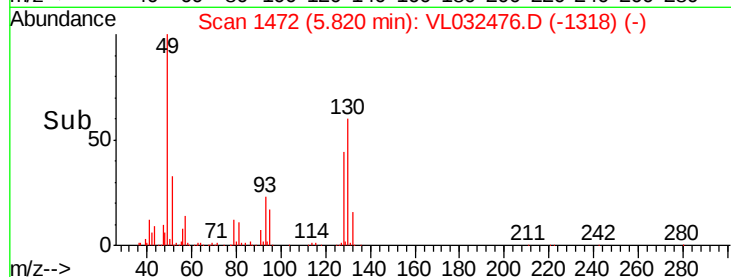
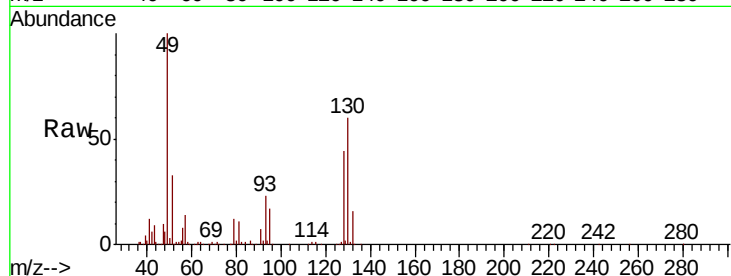




#26
Hexane
Concen: 0.403 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

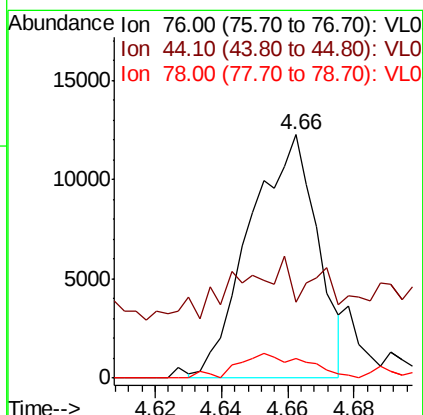
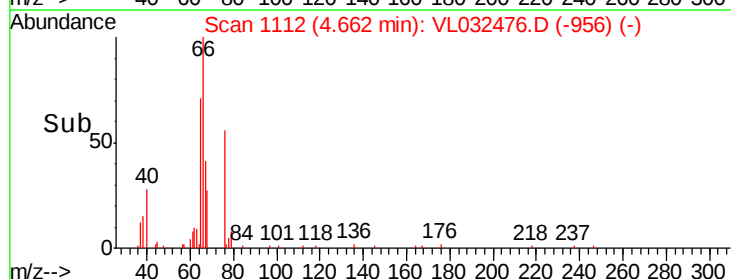
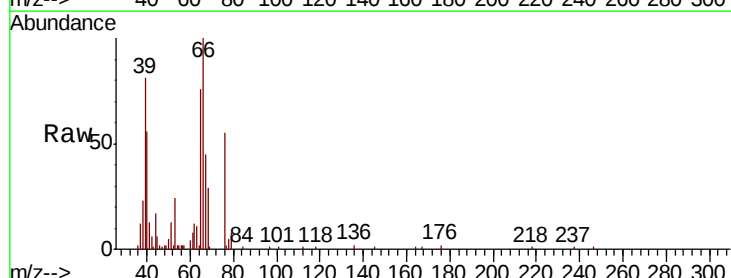
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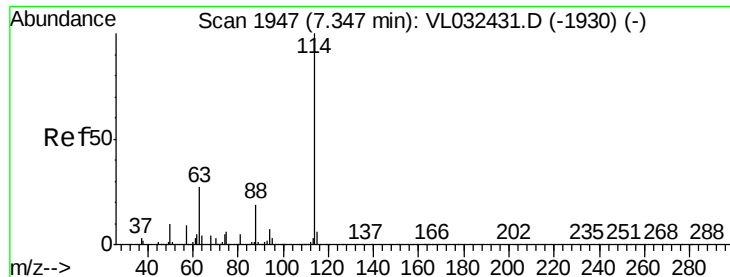
Tgt Ion: 57 Resp: 57165
Ion Ratio Lower Upper
57 100
41 110.4 69.0 103.4#
43 81.0 172.1 258.1#
56 62.0 42.2 63.2



#27
Carbon Disulfide
Concen: 0.133 ppbv
RT: 4.66 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

Tgt Ion: 76 Resp: 17395
Ion Ratio Lower Upper
76 100
44 44.5 14.0 21.0#
78 12.1 7.5 11.3#

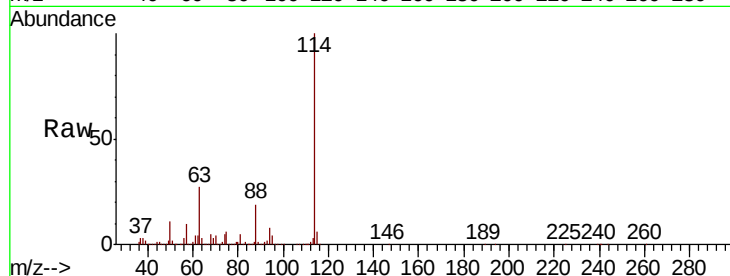




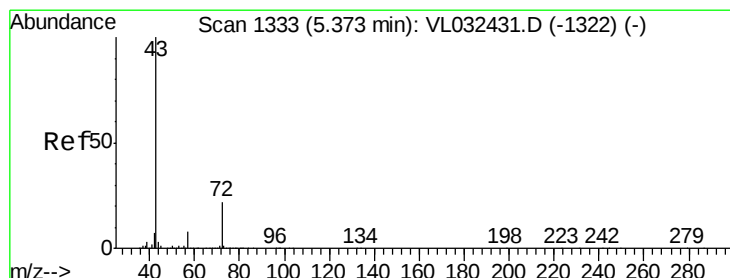
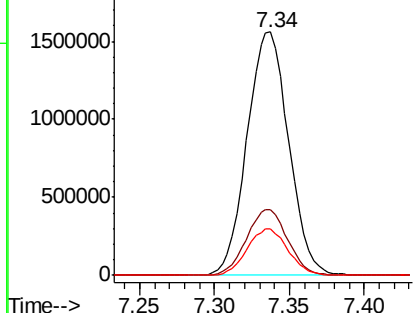
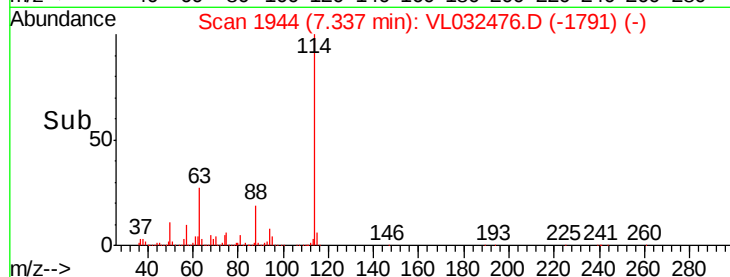
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01DL

Tgt Ion: 114 Resp: 3012457
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.2 33.4
 88 18.8 15.0 22.4

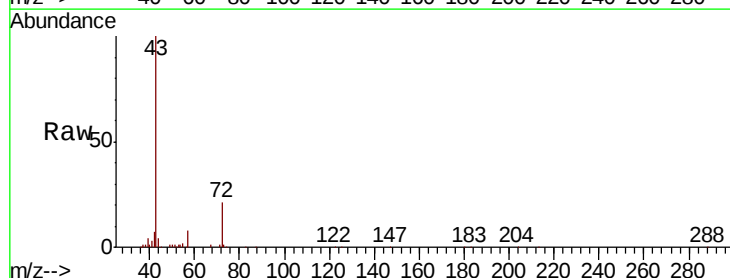


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

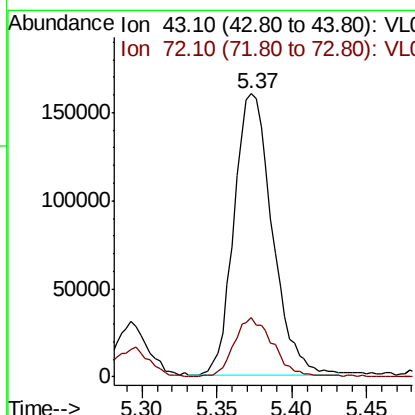
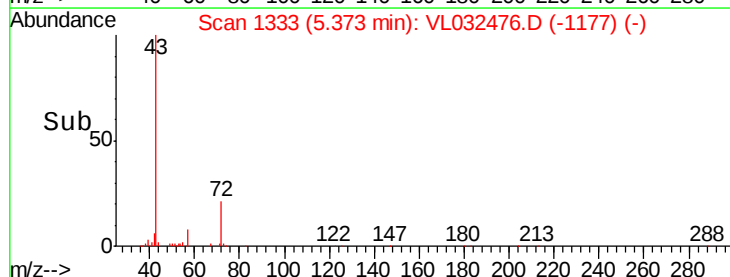


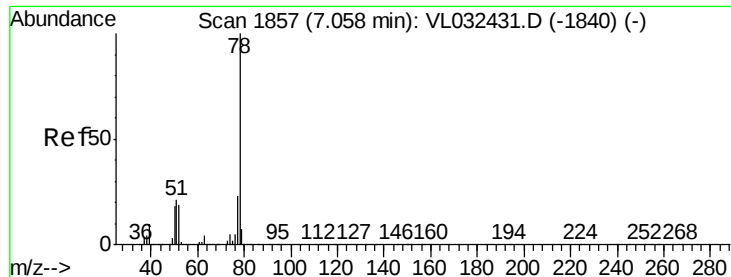
#34
 2-Butanone
 Concen: 1.434 ppbv
 RT: 5.37 min Scan# 1333
 Delta R.T. 0.00 min
 Lab File: VL032476.D
 Acq: 6 Sep 2018 4:29

Tgt Ion: 43 Resp: 286995
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.310 ppbv

RT: 7.05 min Scan# 1854

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

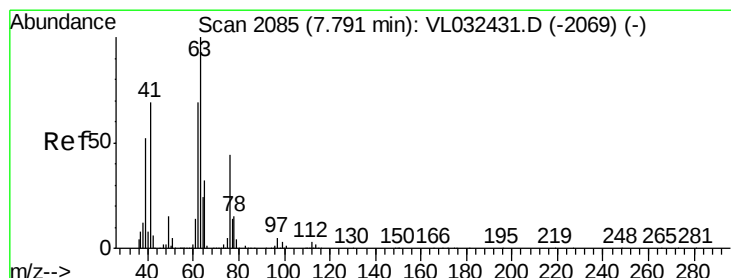
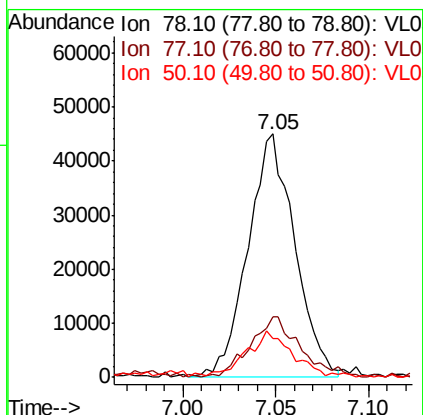
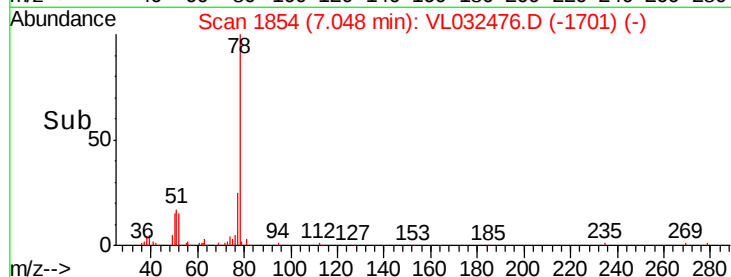
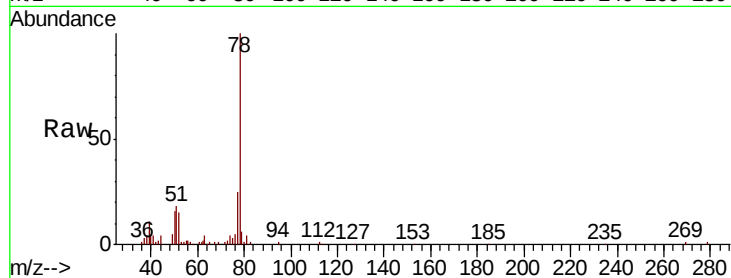
Tgt Ion: 78 Resp: 79425

Ion Ratio Lower Upper

78 100

77 23.6 18.4 27.6

50 16.1 14.4 21.6



#39

1,2-Dichloropropane

Concen: 7.320 ppbv

RT: 7.33 min Scan# 1943

Delta R.T. -0.46 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

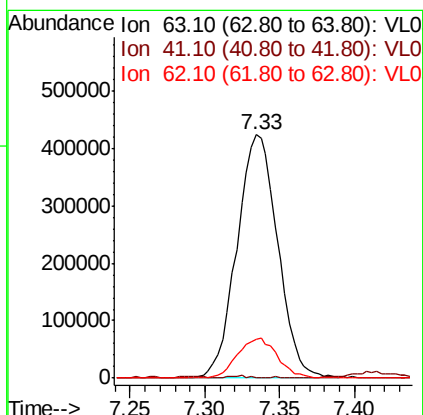
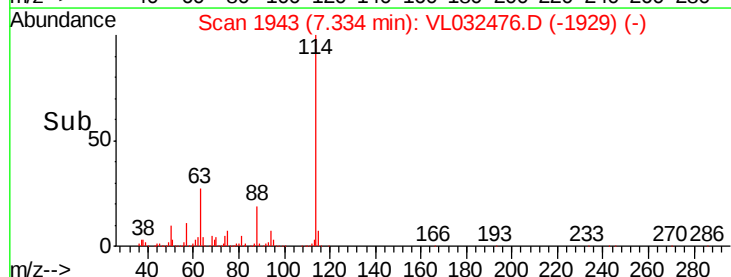
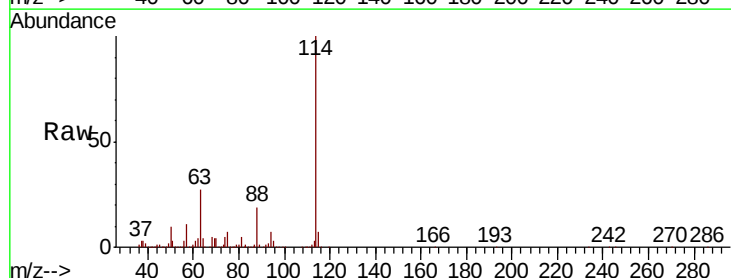
Tgt Ion: 63 Resp: 802901

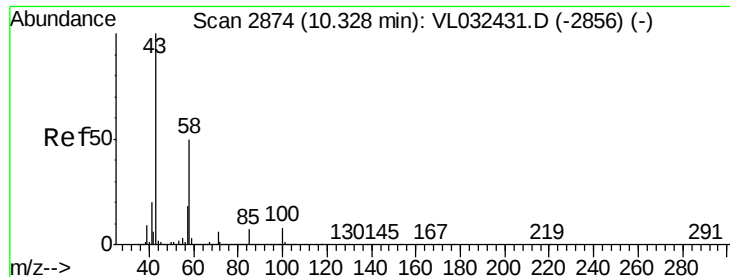
Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

62 15.8 55.4 83.0#

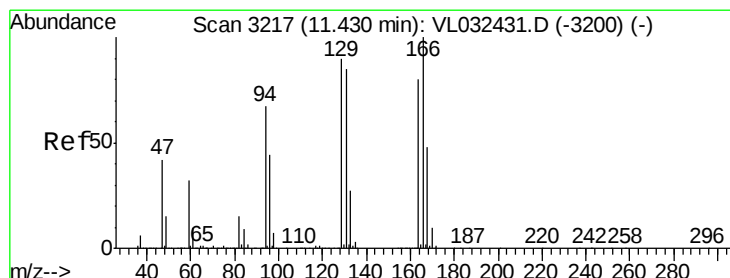
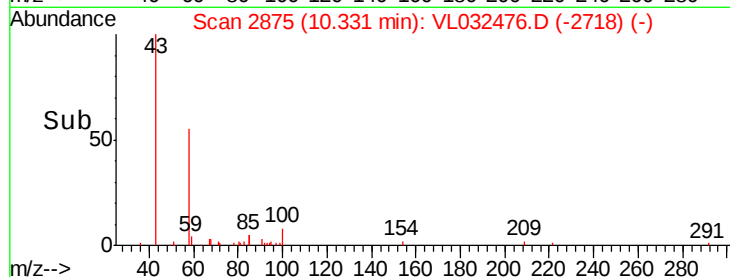
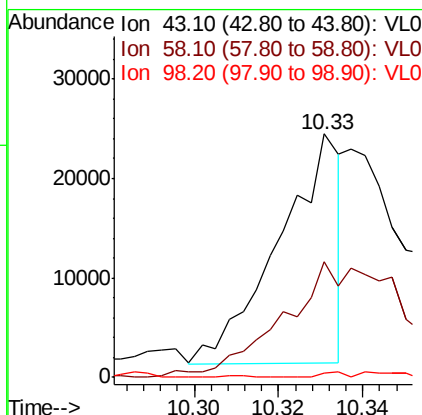
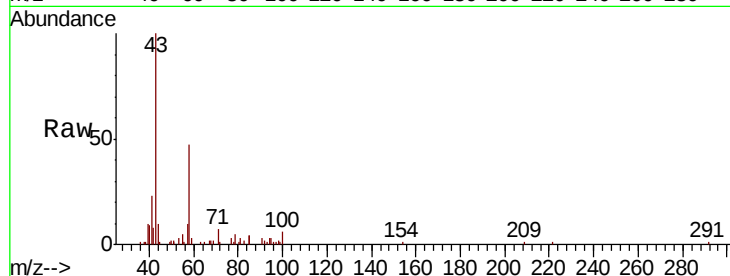




#51
2-Hexanone
Concen: 0.121 ppbv
RT: 10.33 min Scan# 2875
Delta R.T. 0.00 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

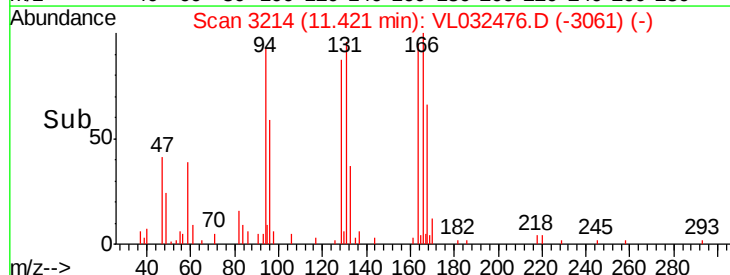
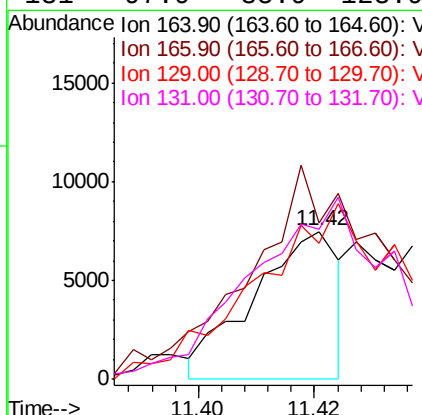
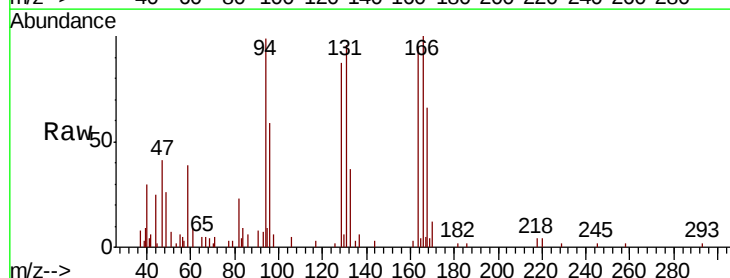
Instrument :
MSVOA_L
ClientSampleId :
VP-01DL

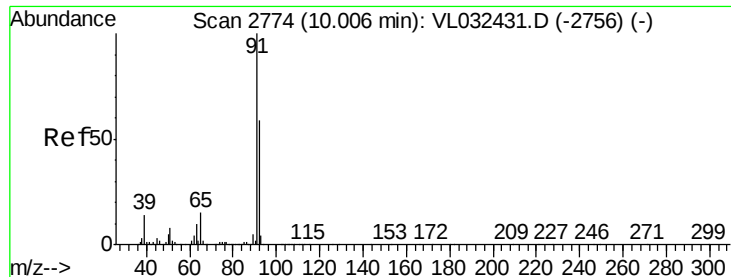
Tgt Ion: 43 Resp: 23479
Ion Ratio Lower Upper
43 100
58 107.3 39.2 58.8#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.096 ppbv
RT: 11.42 min Scan# 3214
Delta R.T. -0.01 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

Tgt Ion: 164 Resp: 7653
Ion Ratio Lower Upper
164 100
166 84.7 100.6 150.8#
129 75.3 89.9 134.9#
131 97.9 85.9 128.9





#53

Toluene

Concen: 0.820 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

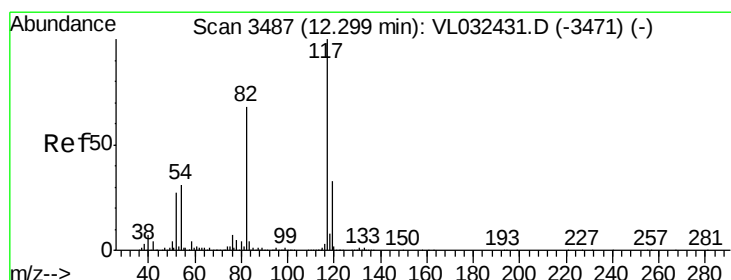
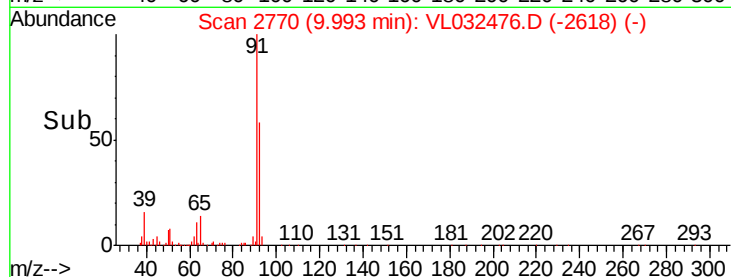
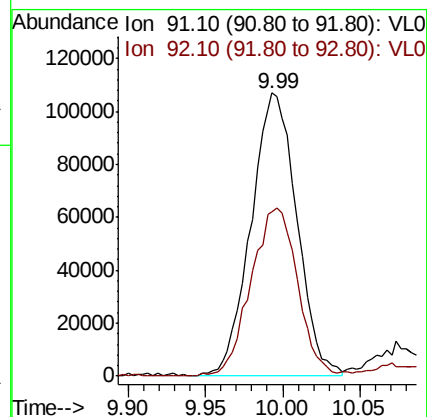
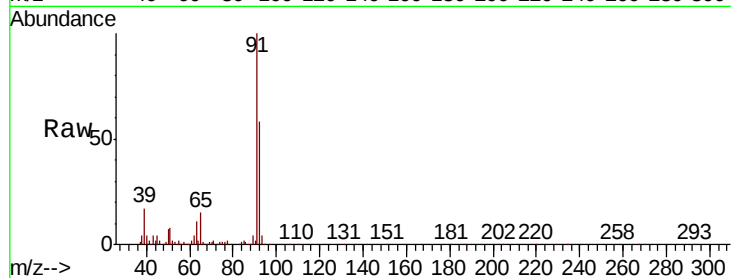
VP-01DL

Tgt Ion: 91 Resp: 219770

Ion Ratio Lower Upper

91 100

92 60.8 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

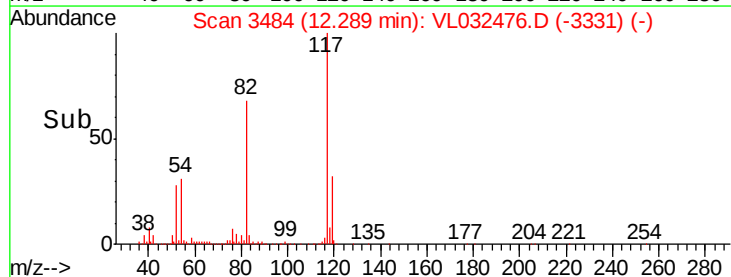
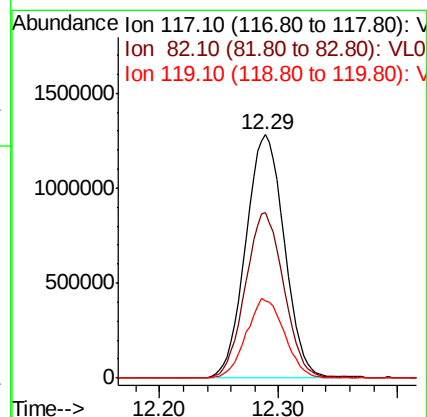
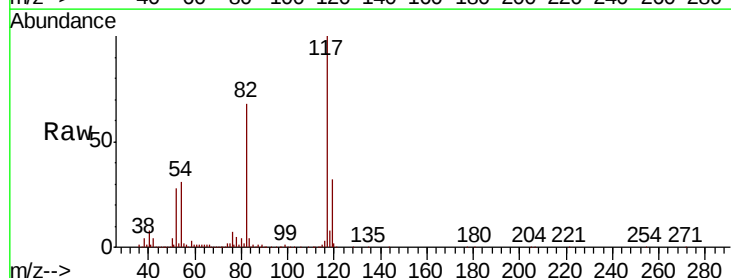
Tgt Ion: 117 Resp: 2886516

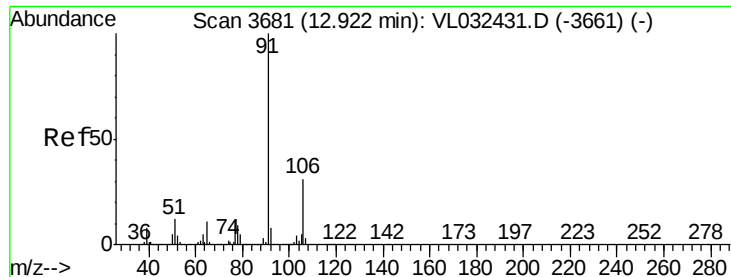
Ion Ratio Lower Upper

117 100

82 68.0 53.0 79.6

119 32.5 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.128 ppbv

RT: 12.91 min Scan# 3677

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

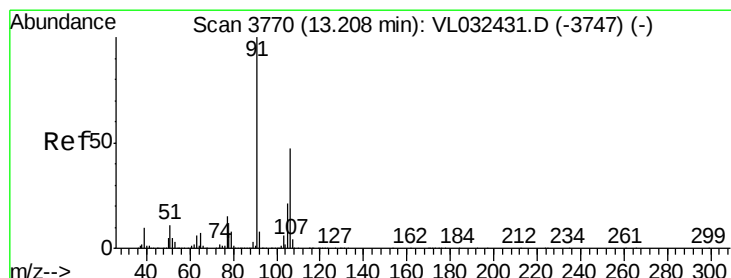
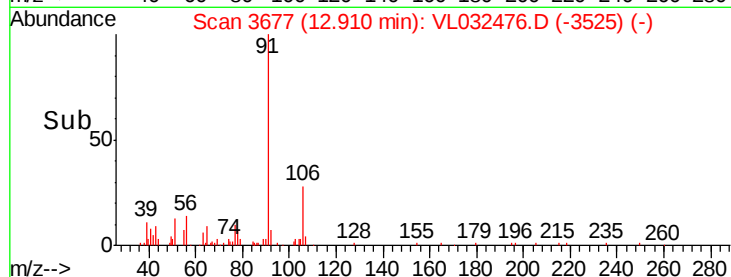
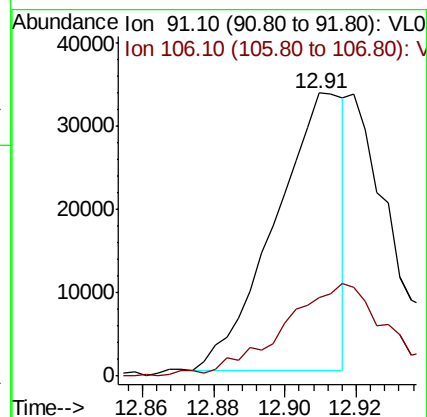
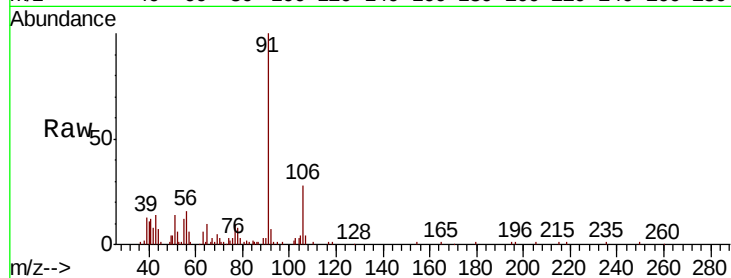
VP-01DL

Tgt Ion: 91 Resp: 44369

Ion Ratio Lower Upper

91 100

106 26.4 24.8 37.2



#59

m/p-Xylene

Concen: 0.230 ppbv

RT: 13.19 min Scan# 3765

Delta R.T. -0.02 min

Lab File: VL032476.D

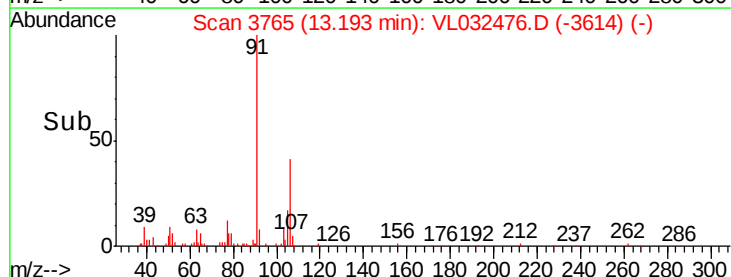
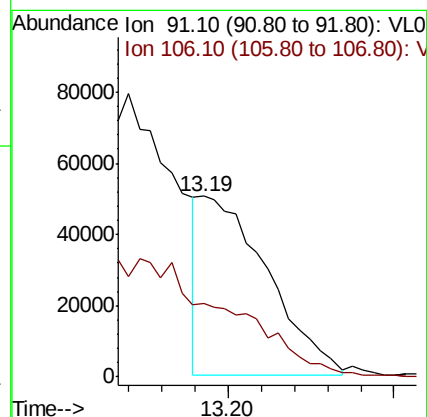
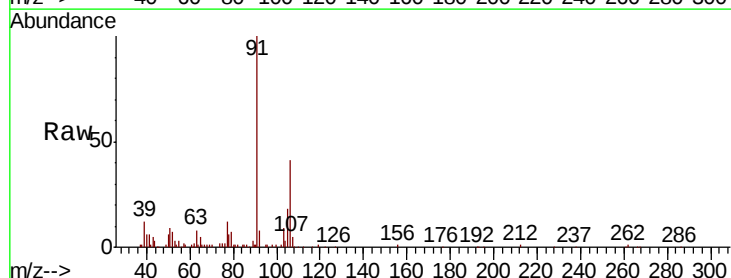
Acq: 6 Sep 2018 4:29

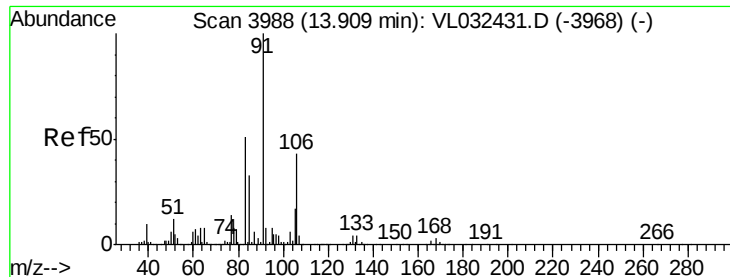
Tgt Ion: 91 Resp: 70956

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#

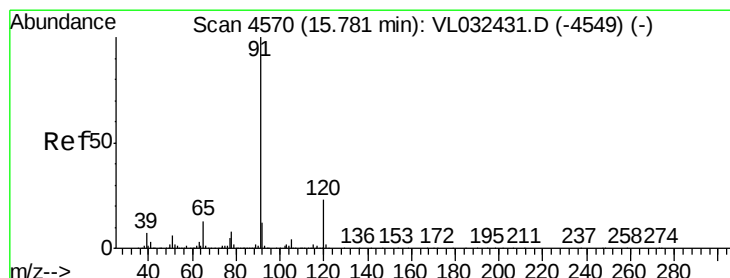
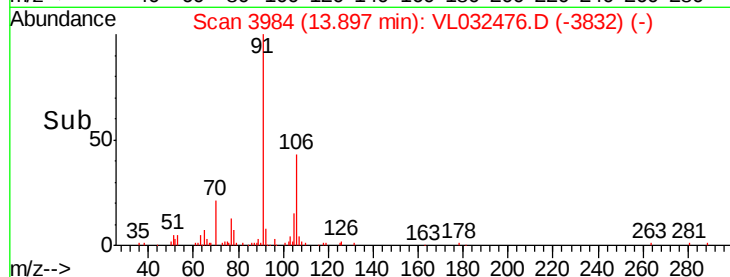
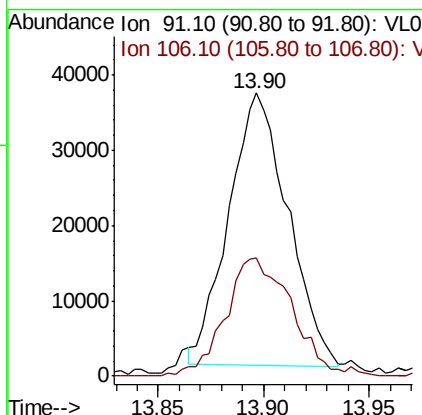
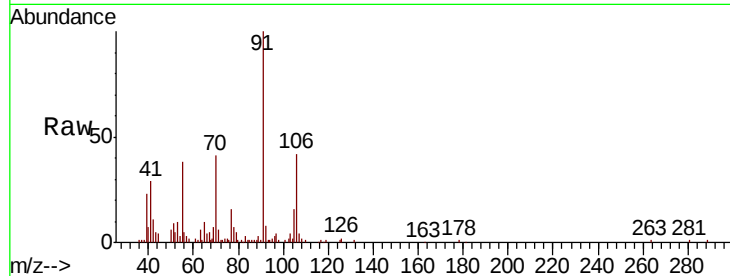




#60
o-Xylene
Concen: 0.233 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

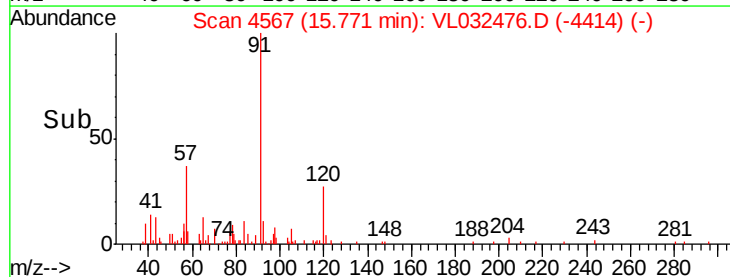
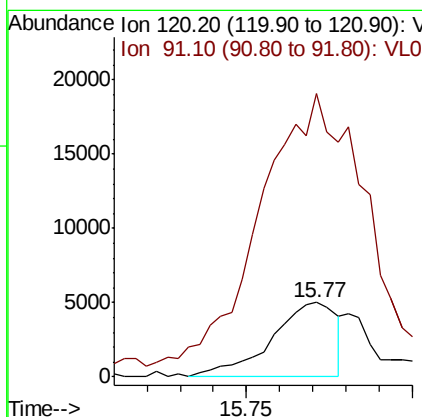
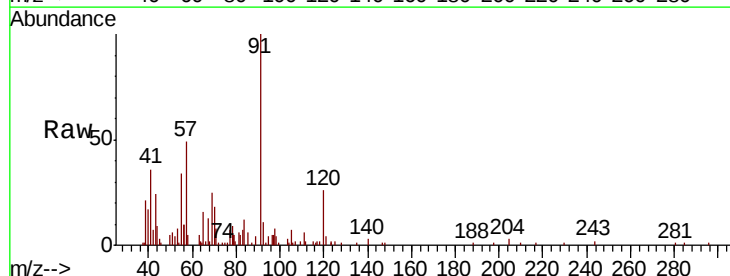
Instrument :
MSVOA_L
ClientSampleId :
VP-01DL

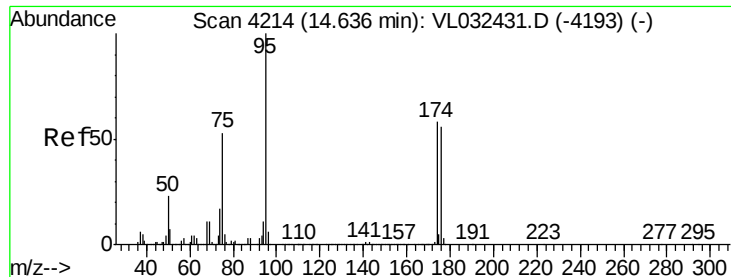
Tgt Ion: 91 Resp: 70607
Ion Ratio Lower Upper
91 100
106 48.7 21.9 65.7



#64
n-propylbenzene
Concen: 0.062 ppbv
RT: 15.77 min Scan# 4567
Delta R.T. -0.01 min
Lab File: VL032476.D
Acq: 6 Sep 2018 4:29

Tgt Ion: 120 Resp: 6866
Ion Ratio Lower Upper
120 100
91 694.7 381.8 572.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.258 ppbv

RT: 14.63 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

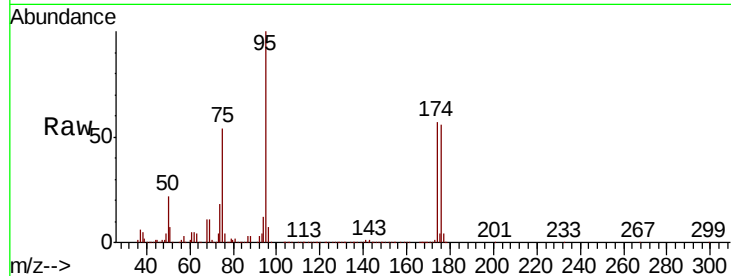
Tgt Ion: 95 Resp: 2198335

Ion Ratio Lower Upper

95 100

174 57.3 46.3 69.5

175 4.3 3.4 5.0

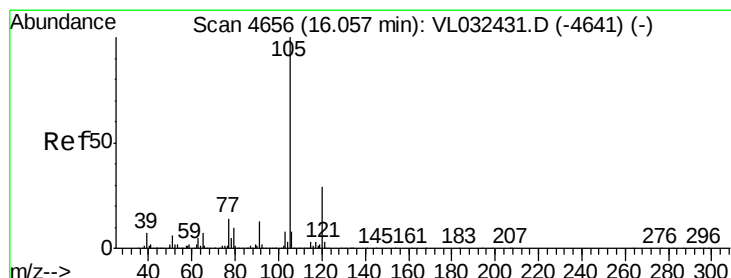
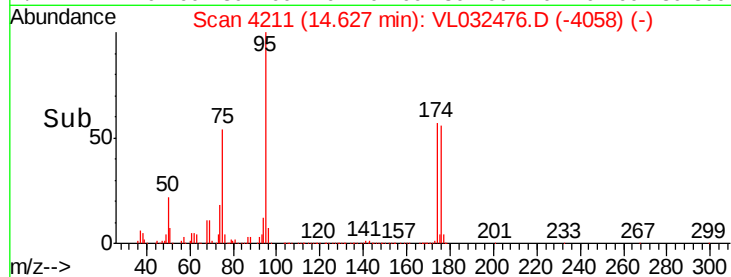
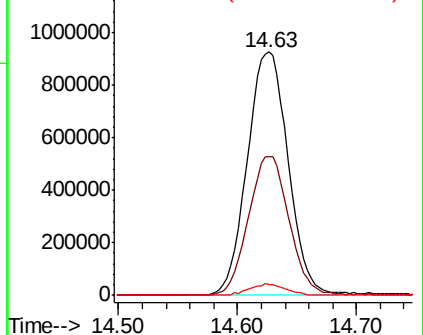


Abundance

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



#72

4-Ethyltoluene

Concen: 0.070 ppbv

RT: 16.05 min Scan# 4653

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Tgt Ion: 105 Resp: 23221

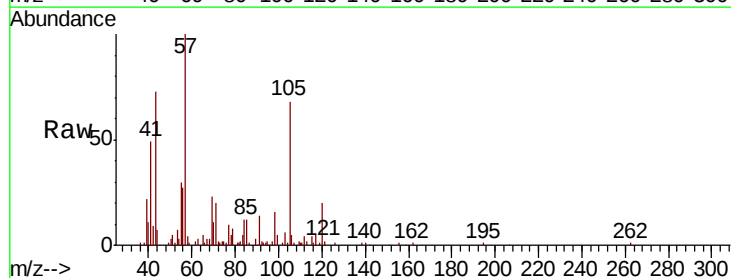
Ion Ratio Lower Upper

105 100

120 0.0 23.5 35.3#

91 29.6 10.2 15.2#

77 39.1 11.1 16.7#



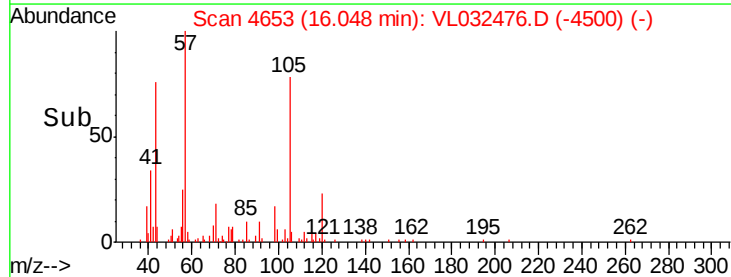
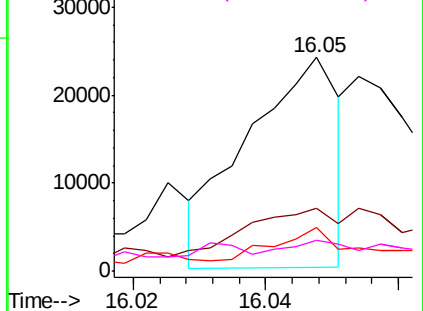
Abundance

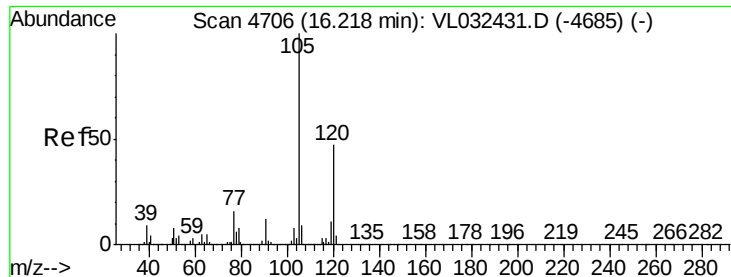
Ion 105.10 (104.80 to 105.80): V

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: 0.044 ppbv

RT: 16.21 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleID :

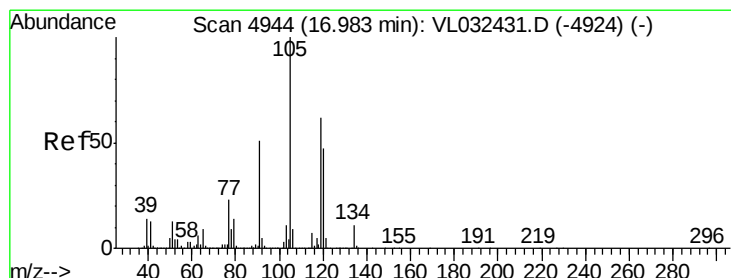
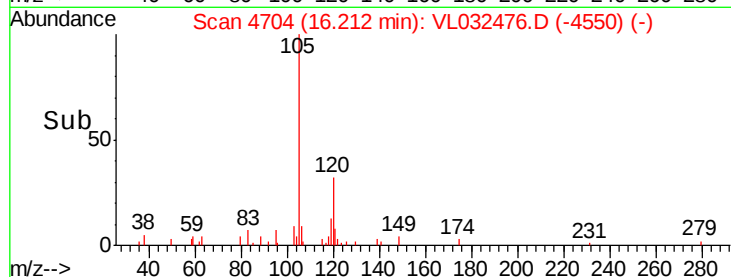
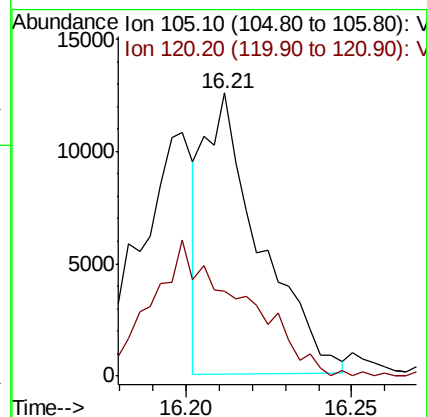
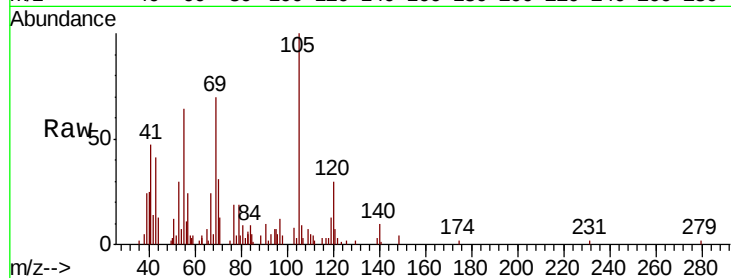
VP-01DL

Tgt Ion:105 Resp: 14685

Ion Ratio Lower Upper

105 100

120 30.2 37.9 56.9#



#74

1,2,4-Trimethylbenzene

Concen: 0.319 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Tgt Ion:105 Resp: 115407

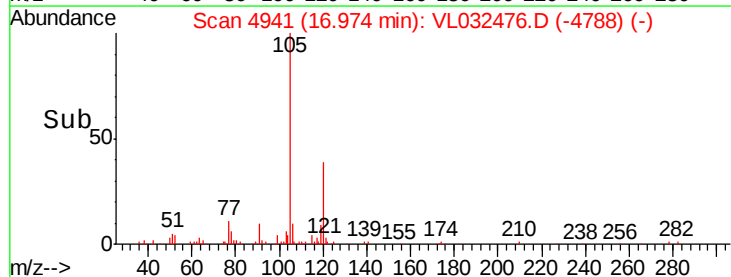
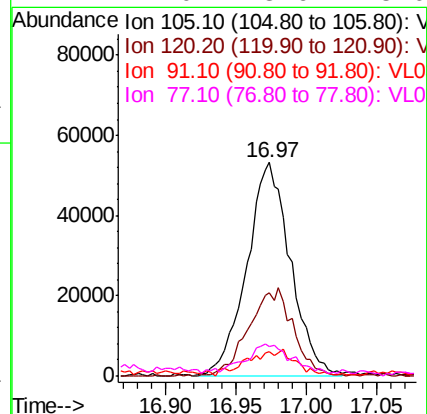
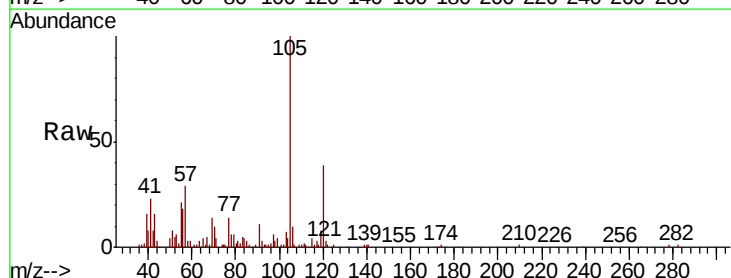
Ion Ratio Lower Upper

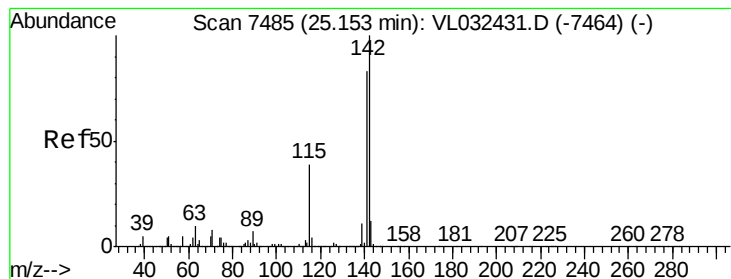
105 100

120 38.7 37.8 56.8

91 10.3 41.4 62.0#

77 11.0 18.6 28.0#





#80

Naphthalene, 2-methyl-

Concen: 0.045 ppbv

RT: 25.16 min Scan# 7486

Delta R.T. 0.00 min

Lab File: VL032476.D

Acq: 6 Sep 2018 4:29

Instrument :

MSVOA_L

ClientSampleId :

VP-01DL

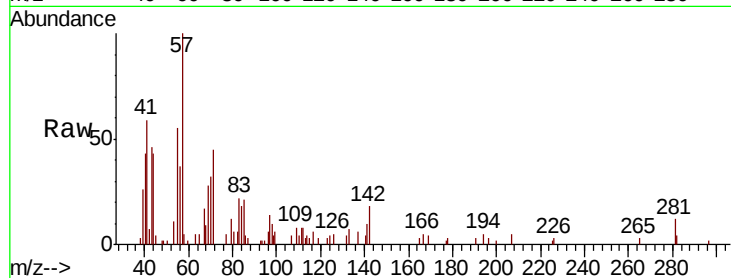
Tgt Ion:142 Resp: 3557

Ion Ratio Lower Upper

142 100

141 69.9 67.0 100.6

115 60.5 31.3 46.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

