

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL090518\
 Data File : VL032474.D
 Acq On : 6 Sep 2018 3:11
 Operator : SY/AP
 Sample : J4745-01DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

Quant Time: Sep 06 05:03:16 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	1516785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3069105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3023240	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2324254	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

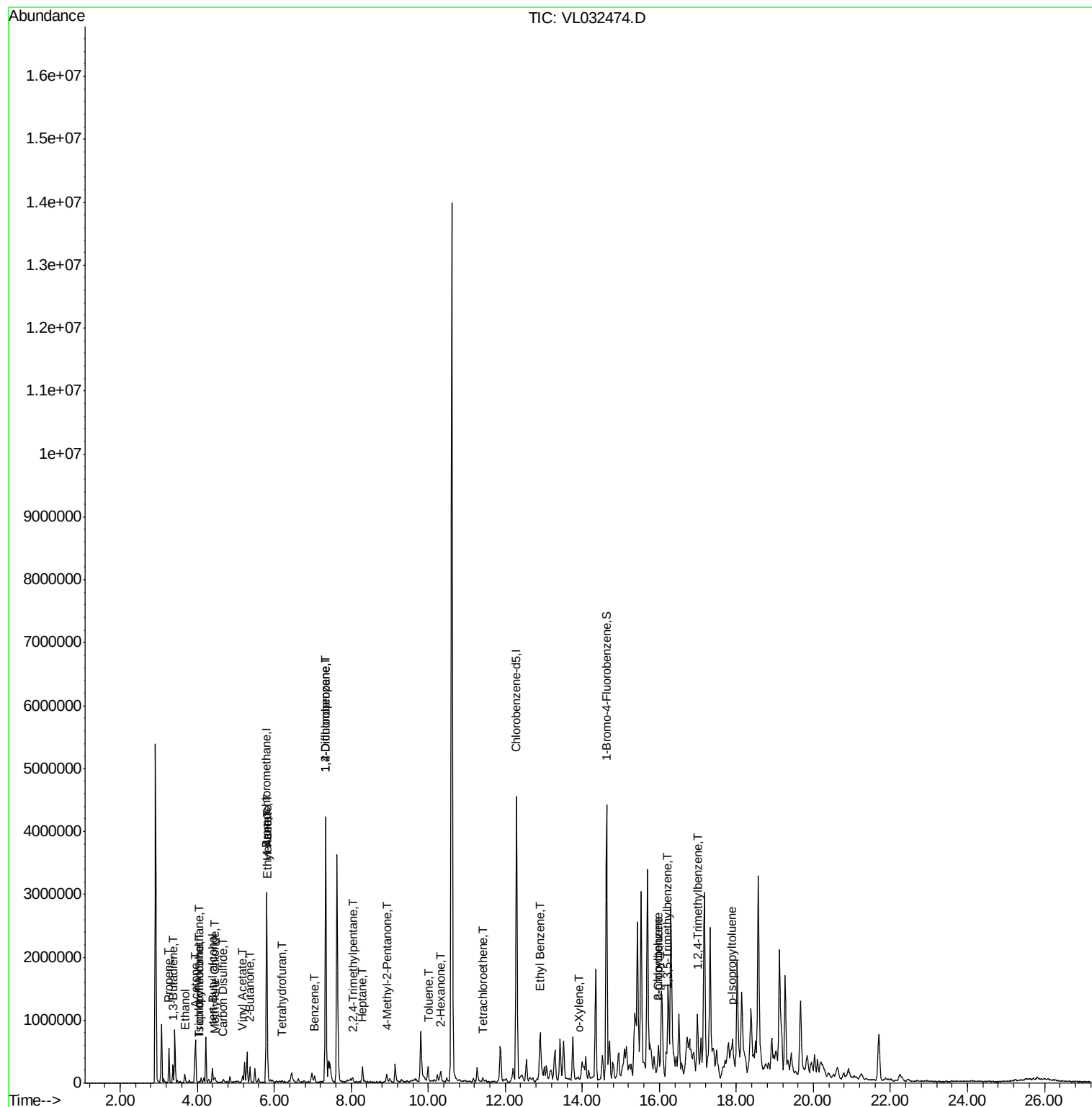
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.27	41	132230	2.387	ppbv	94
10) Heptane	8.29	43	105266	0.530	ppbv	94
11) Trichlorofluoromethane	4.04	101	5420	0.031	ppbv	97
13) Ethanol	3.68	45	137556	7.968	ppbv	99
15) Acetone	3.94	43	526047	3.851	ppbv #	78
16) 1,3-Butadiene	3.37	39	77480	1.205	ppbv #	18
17) tert-Butyl alcohol	4.40	59	178182	8.477	ppbv #	100
19) Isopropyl Alcohol	4.06	45	17437	0.195	ppbv #	1
20) Methylene Chloride	4.44	84	17899	0.344	ppbv	92
23) Vinyl Acetate	5.18	43	17466	0.077	ppbv #	1
25) Ethyl Acetate	5.82	43	146266	0.453	ppbv #	77
26) Hexane	5.82	57	100940	0.699	ppbv #	1
27) Carbon Disulfide	4.66	76	5588	0.042	ppbv #	19
34) 2-Butanone	5.37	43	253268	1.242	ppbv	99
36) Benzene	7.05	78	76144	0.292	ppbv	95
39) 1,2-Dichloropropane	7.33	63	808259	7.233	ppbv #	25
41) Tetrahydrofuran	6.20	42	8650	0.078	ppbv #	29
44) 2,2,4-Trimethylpentane	8.04	57	22971	0.045	ppbv #	8
50) 4-Methyl-2-Pentanone	8.93	43	100470	0.327	ppbv	99
51) 2-Hexanone	10.32	43	134860	0.682	ppbv #	94
52) Tetrachloroethene	11.42	164	6443	0.080	ppbv #	81
53) Toluene	10.00	91	175808	0.644	ppbv	98
58) Ethyl Benzene	12.92	91	24817	0.069	ppbv	100
60) o-Xylene	13.90	91	39950	0.126	ppbv	90
64) n-propylbenzene	15.98	120	9574	0.082	ppbv	71
69) p-Isopropyltoluene	17.86	119	24995	0.056	ppbv #	63
71) 2-Chlorotoluene	15.98	91	21600	0.063	ppbv	88
73) 1,3,5-Trimethylbenzene	16.20	105	29284	0.084	ppbv	91
74) 1,2,4-Trimethylbenzene	16.98	105	87080	0.230	ppbv #	75

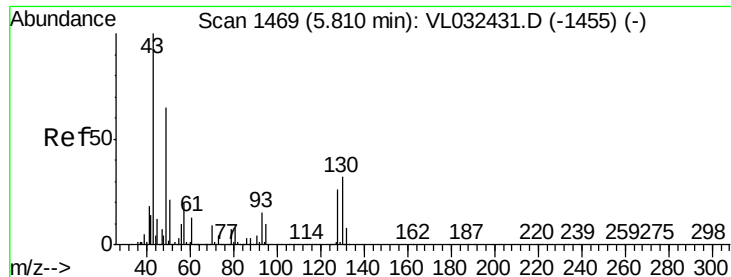
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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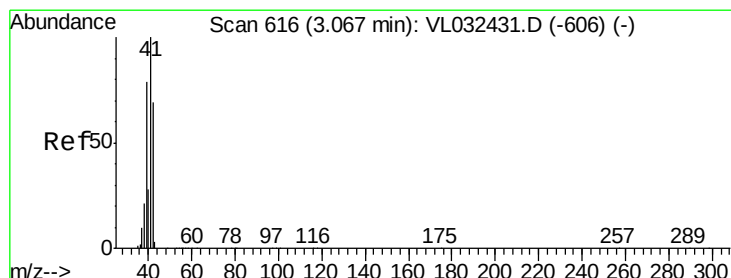
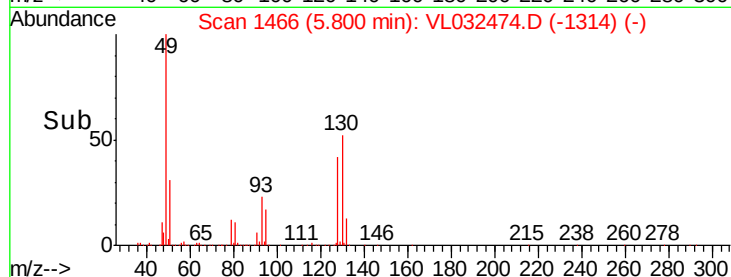
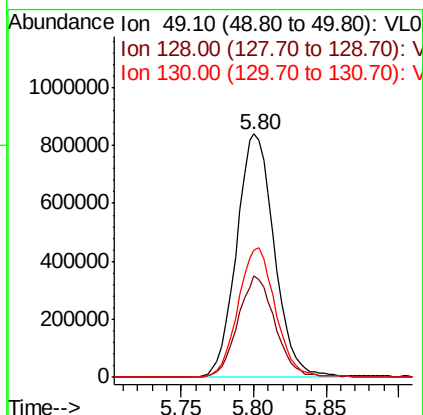
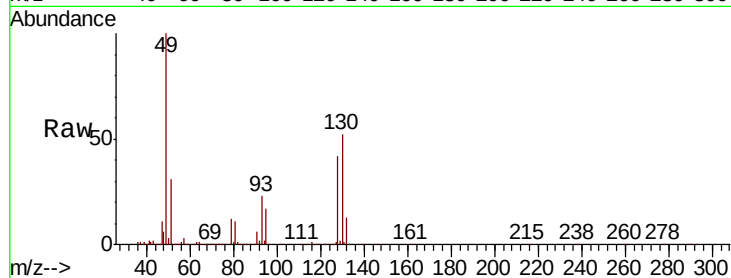




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.80 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

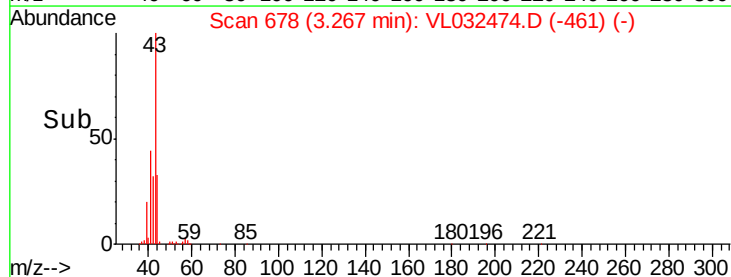
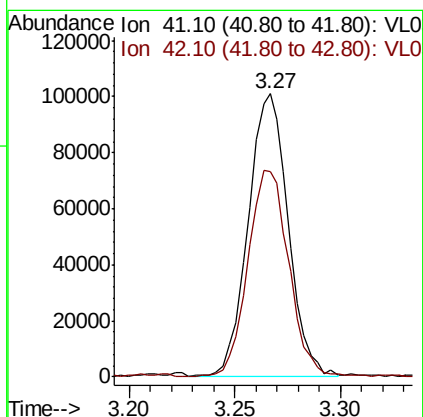
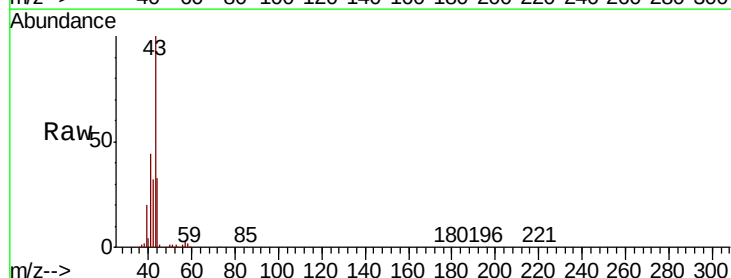
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

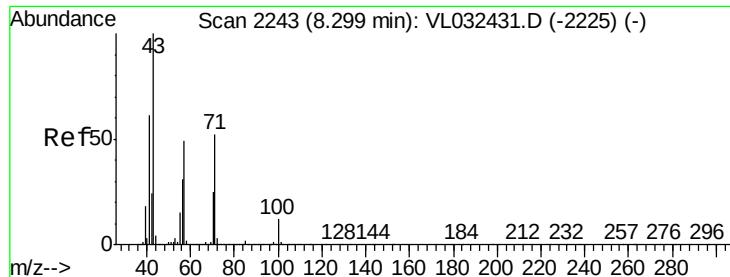
Tgt Ion: 49 Resp: 1516785
 Ion Ratio Lower Upper
 49 100
 128 41.5 20.7 62.1
 130 53.3 26.6 79.7



#9
 Propene
 Concen: 2.387 ppbv
 RT: 3.27 min Scan# 678
 Delta R.T. 0.20 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion: 41 Resp: 132230
 Ion Ratio Lower Upper
 41 100
 42 75.9 56.6 84.8





#10

Heptane

Concen: 0.530 ppbv

RT: 8.29 min Scan# 2241

Delta R.T. -0.01 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

ClientSampleId :

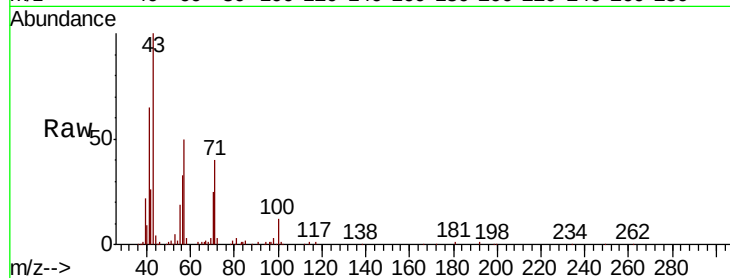
VP-6DL

Tgt Ion: 43 Resp: 105266

Ion Ratio Lower Upper

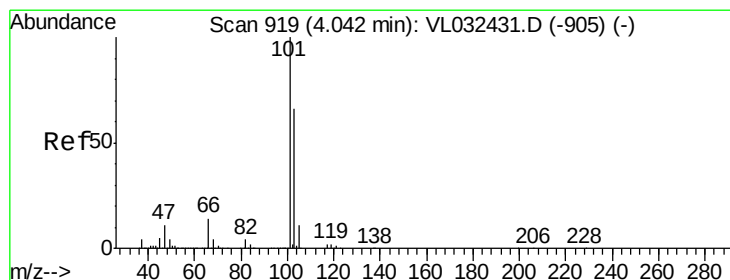
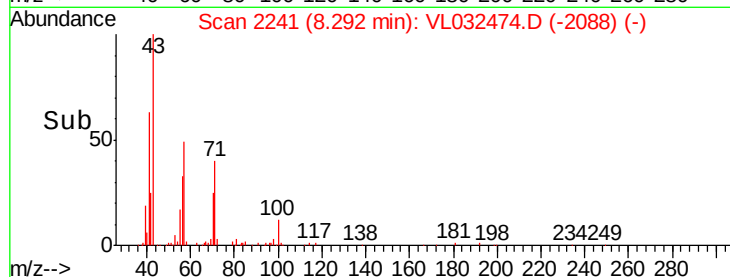
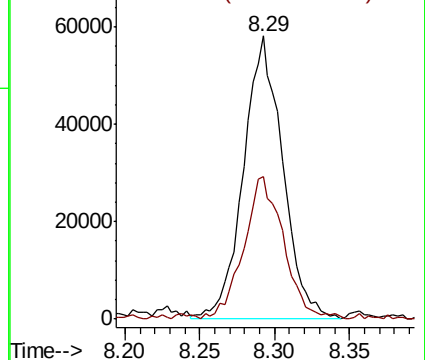
43 100

57 53.7 39.6 59.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 4.04 min Scan# 917

Delta R.T. -0.01 min

Lab File: VL032474.D

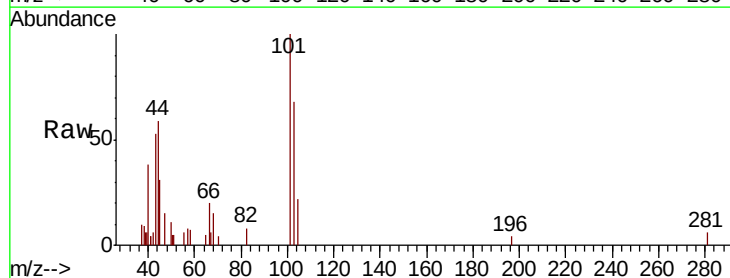
Acq: 6 Sep 2018 3:11

Tgt Ion: 101 Resp: 5420

Ion Ratio Lower Upper

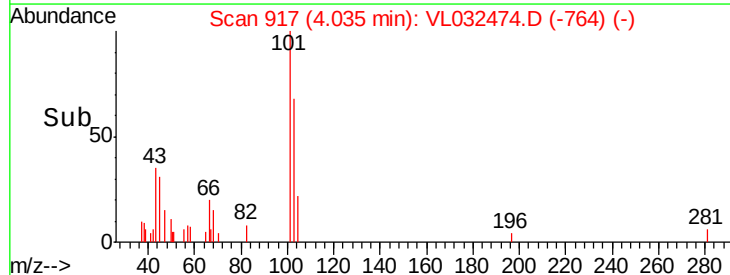
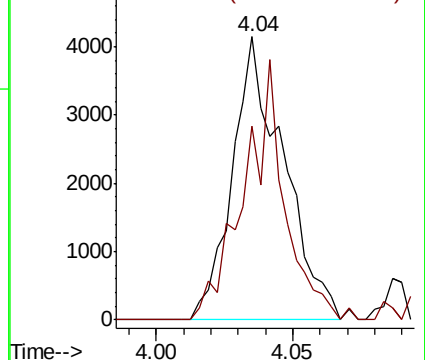
101 100

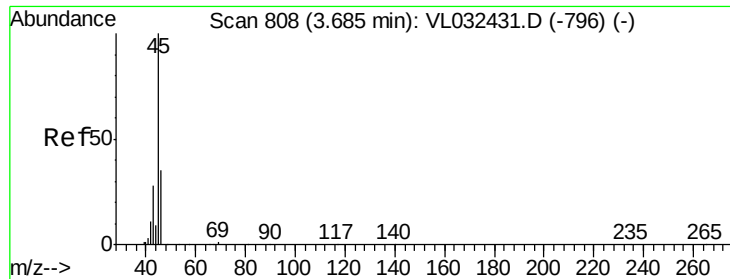
103 68.5 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

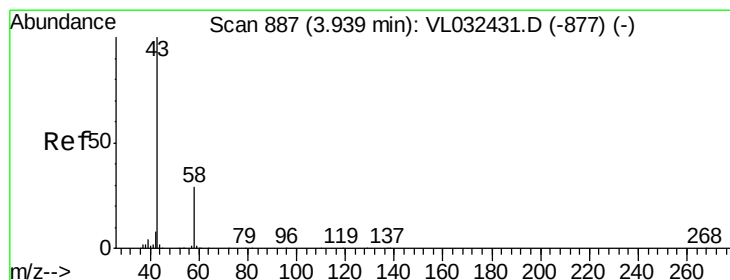
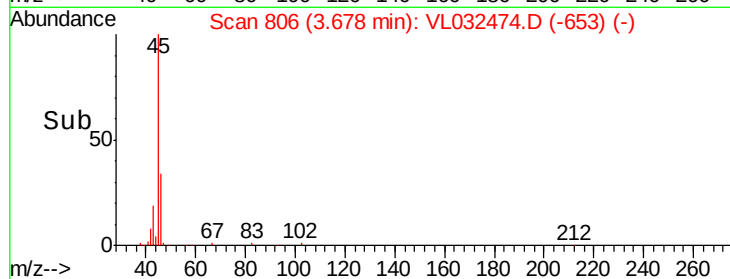
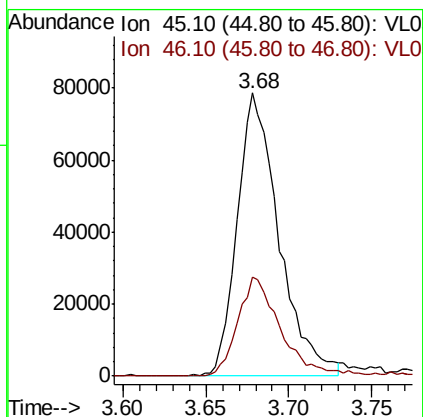
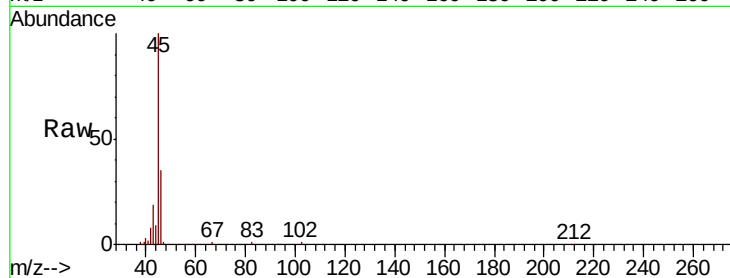




#13
Ethanol
Concen: 7.968 ppbv
RT: 3.68 min Scan# 806
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

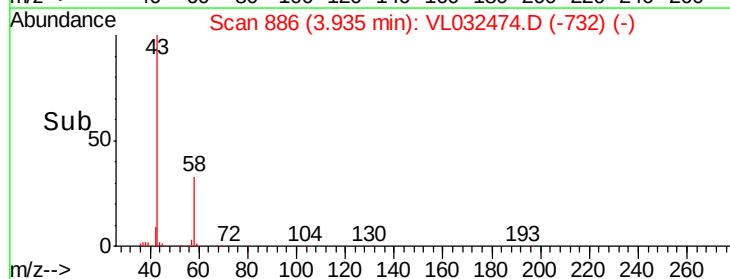
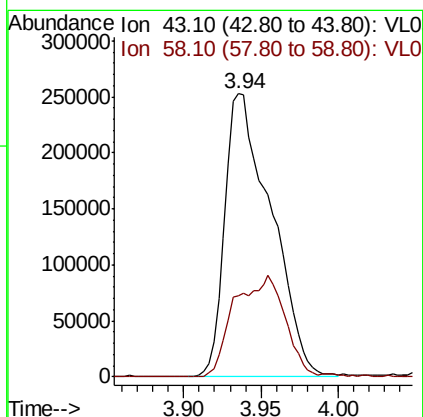
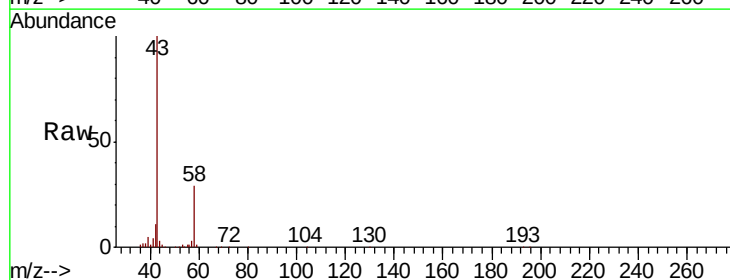
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

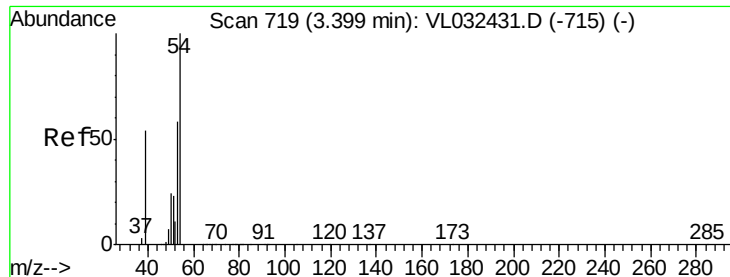
Tgt Ion: 45 Resp: 137556
Ion Ratio Lower Upper
45 100
46 36.1 14.2 56.8



#15
Acetone
Concen: 3.851 ppbv
RT: 3.94 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 43 Resp: 526047
Ion Ratio Lower Upper
43 100
58 39.6 22.6 33.8#





#16

1,3-Butadiene

Concen: 1.205 ppbv

RT: 3.37 min Scan# 711

Delta R.T. -0.03 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

ClientSampleId :

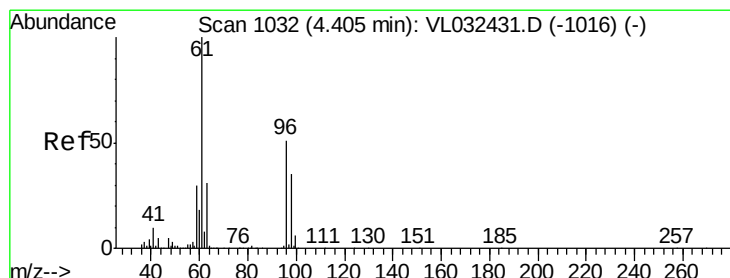
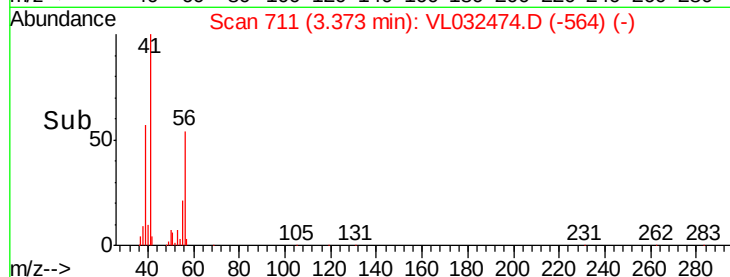
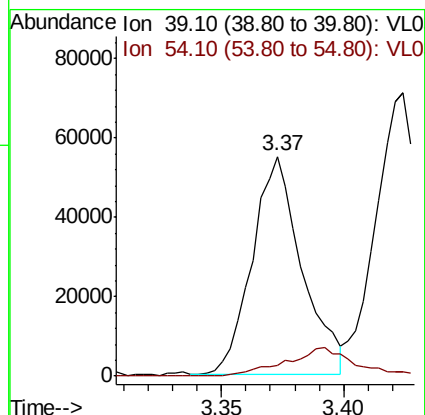
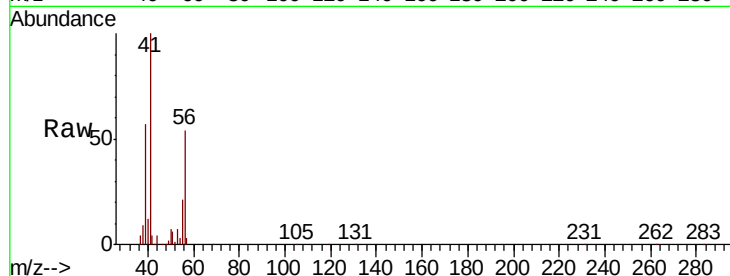
VP-6DL

Tgt Ion: 39 Resp: 77480

Ion Ratio Lower Upper

39 100

54 18.9 80.8 121.2#



#17

tert-Butyl alcohol

Concen: 8.477 ppbv

RT: 4.40 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VL032474.D

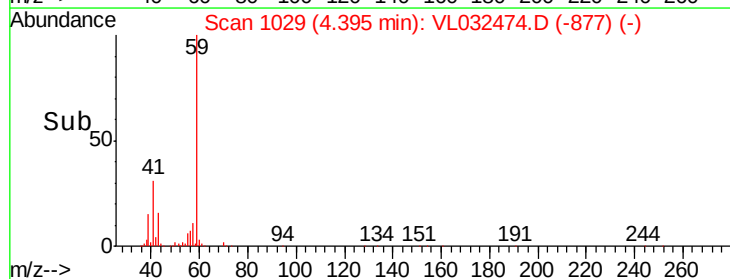
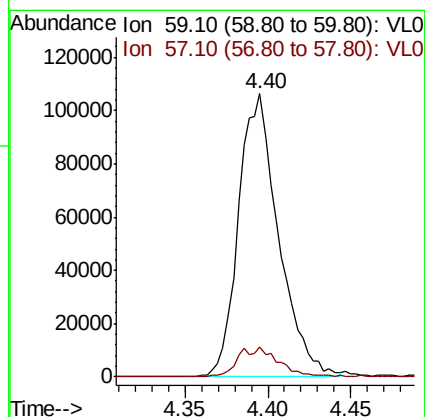
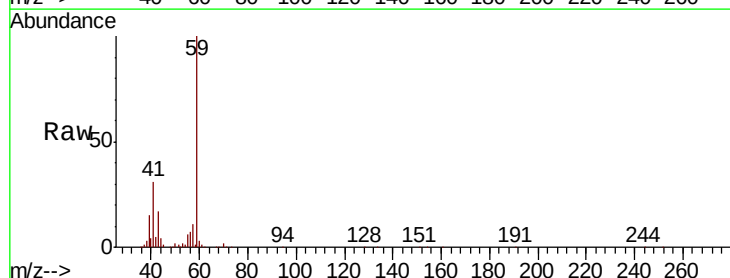
Acq: 6 Sep 2018 3:11

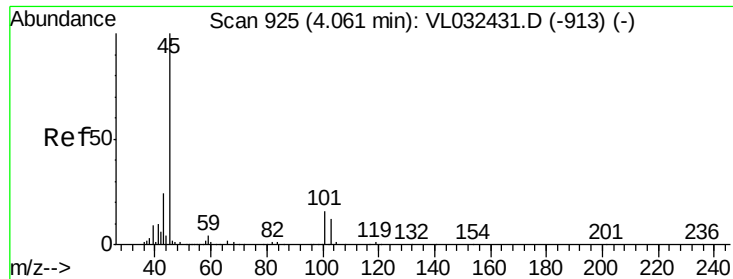
Tgt Ion: 59 Resp: 178182

Ion Ratio Lower Upper

59 100

57 11.2 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 0.195 ppbv

RT: 4.06 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

ClientSampleId :

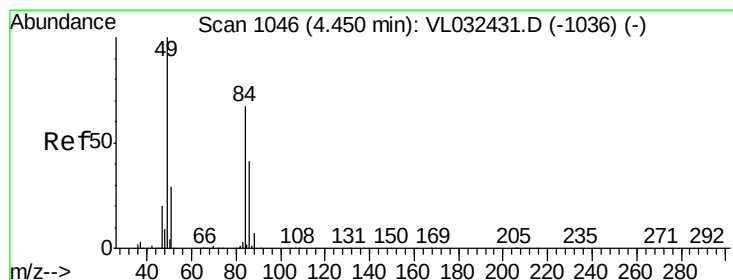
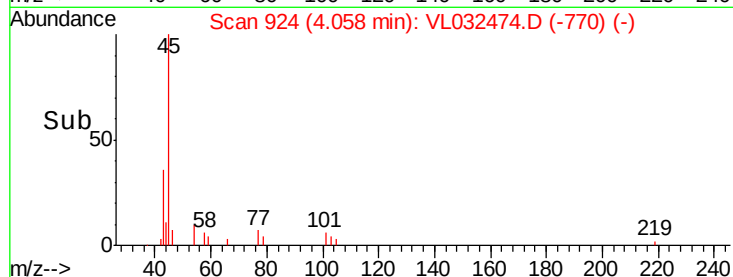
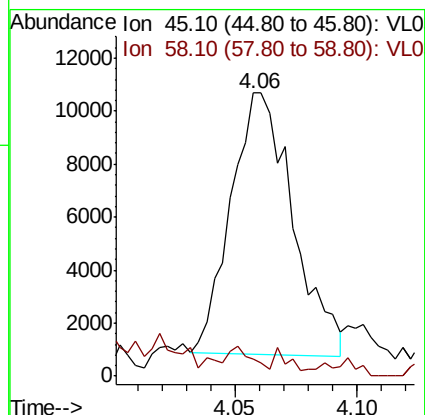
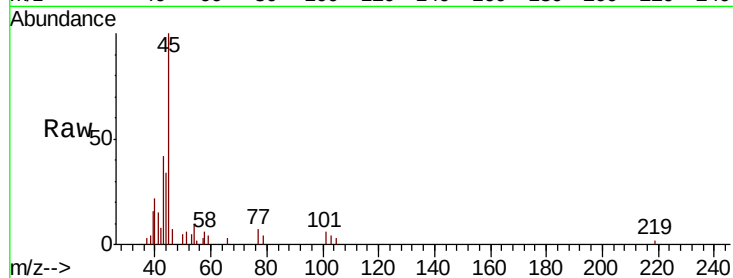
VP-6DL

Tgt Ion: 45 Resp: 17437

Ion Ratio Lower Upper

45 100

58 1203.9 2.0 3.0#



#20

Methylene Chloride

Concen: 0.344 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Tgt Ion: 84 Resp: 17899

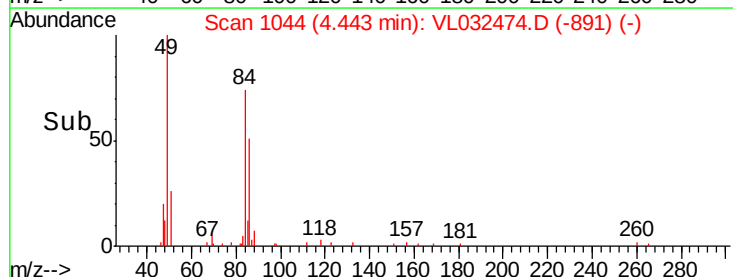
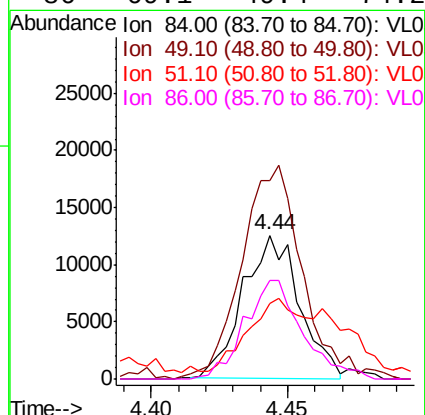
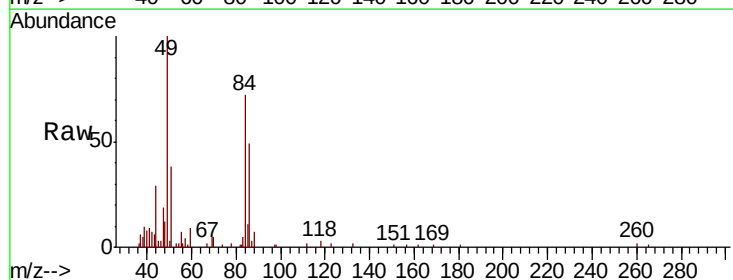
Ion Ratio Lower Upper

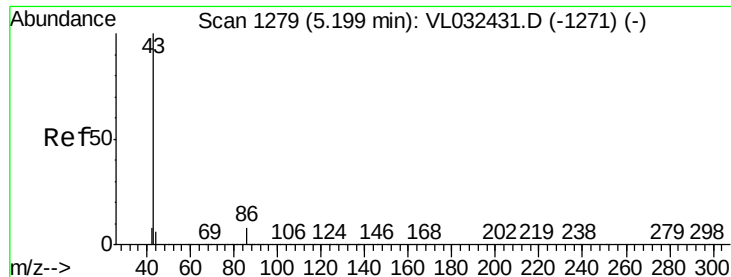
84 100

49 136.4 119.1 178.7

51 43.7 35.2 52.8

86 69.1 49.4 74.2

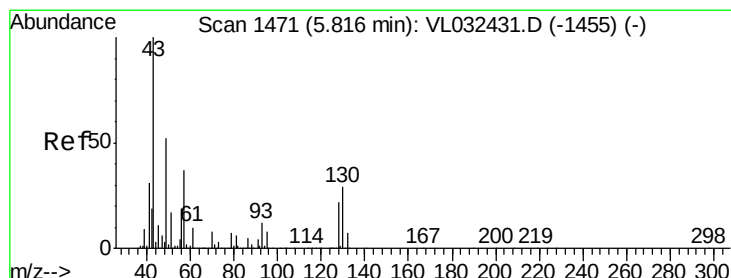
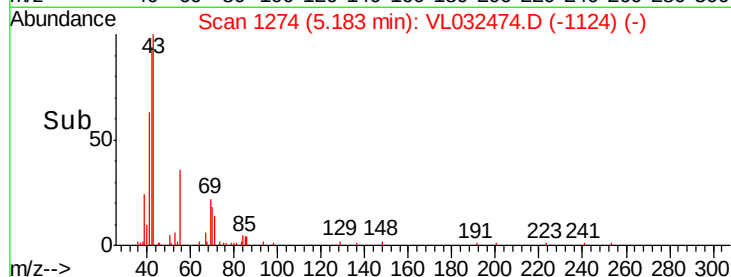
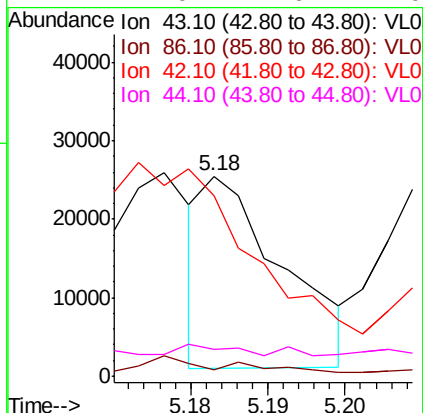
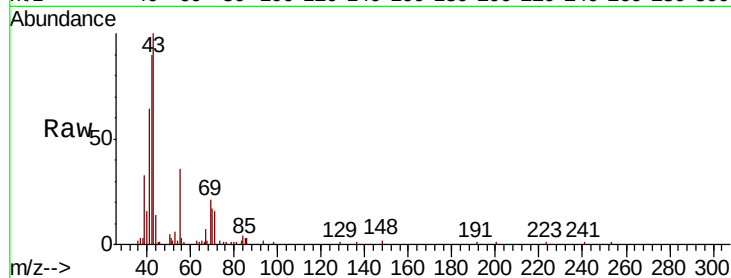




#23
 Vinyl Acetate
 Concen: 0.077 ppbv
 RT: 5.18 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

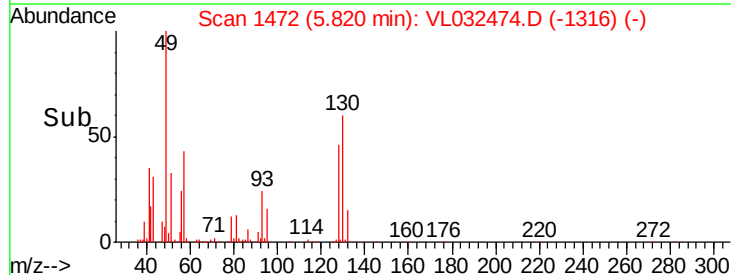
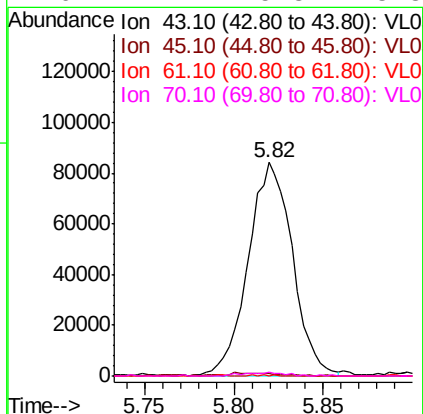
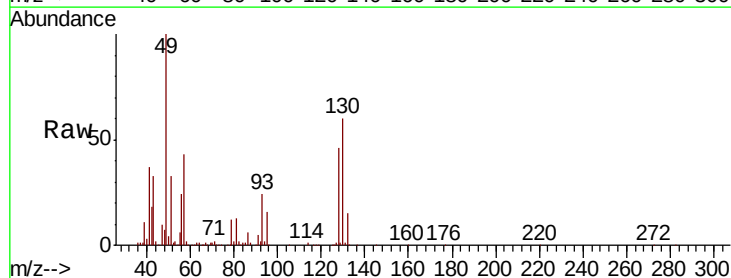
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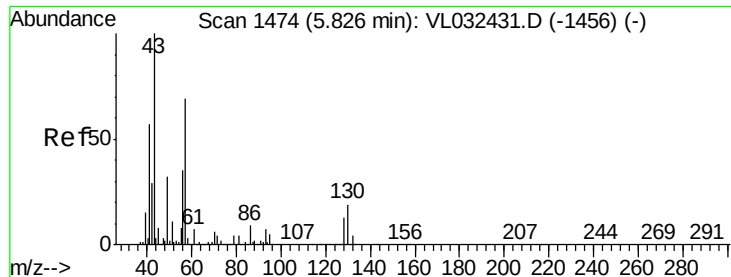
Tgt Ion:	43	Resp:	17466
Ion	Ratio	Lower	Upper
43	100		
86	2.1	5.9	8.9#
42	95.3	6.9	10.3#
44	4.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.453 ppbv
 RT: 5.82 min Scan# 1472
 Delta R.T. 0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion:	43	Resp:	146266
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.3	7.6	11.4#
70	1.7	5.8	8.8#

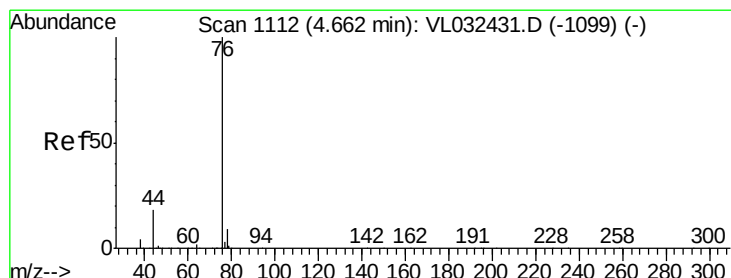
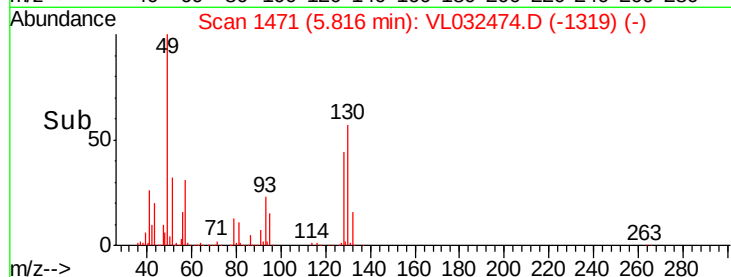
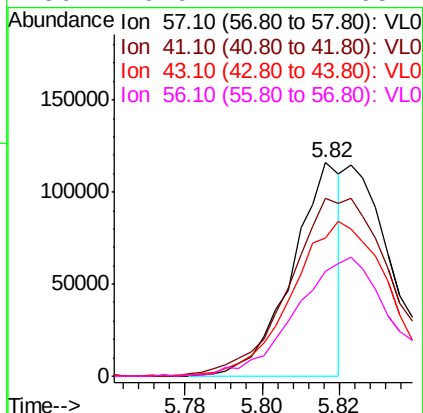
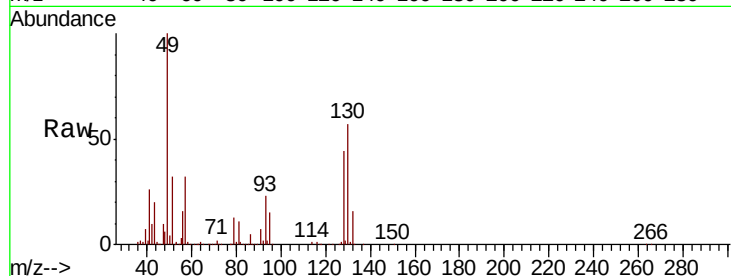




#26
Hexane
Concen: 0.699 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

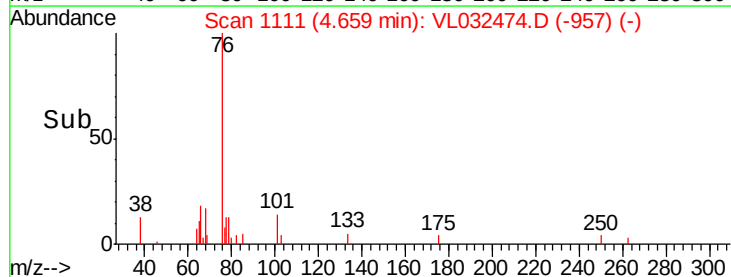
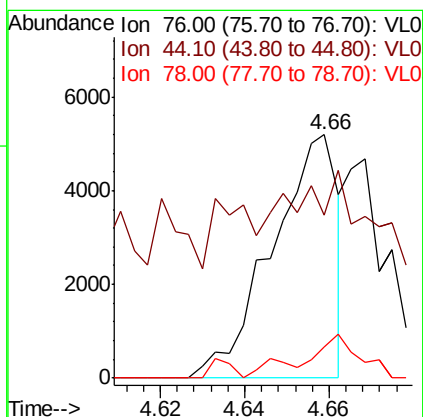
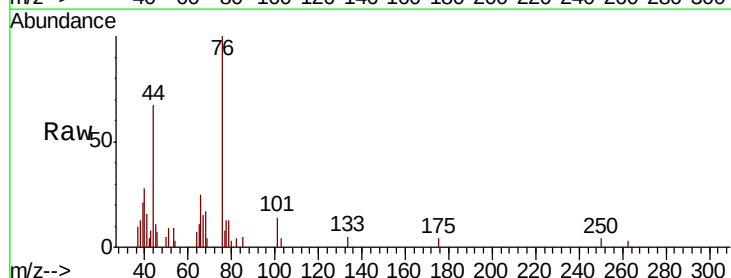
Instrument :
MSVOA_L
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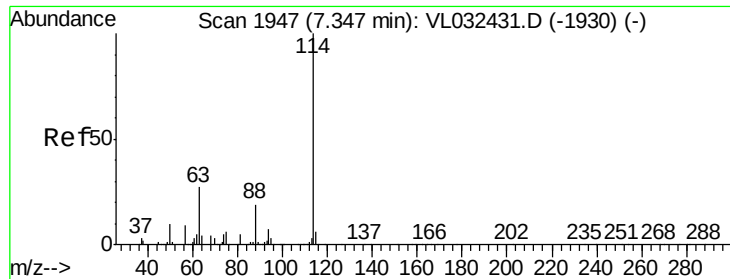
Tgt Ion: 57 Resp: 100940
Ion Ratio Lower Upper
57 100
41 173.9 69.0 103.4#
43 0.0 172.1 258.1#
56 0.0 42.2 63.2#



#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 76 Resp: 5588
Ion Ratio Lower Upper
76 100
44 65.9 14.0 21.0#
78 18.8 7.5 11.3#

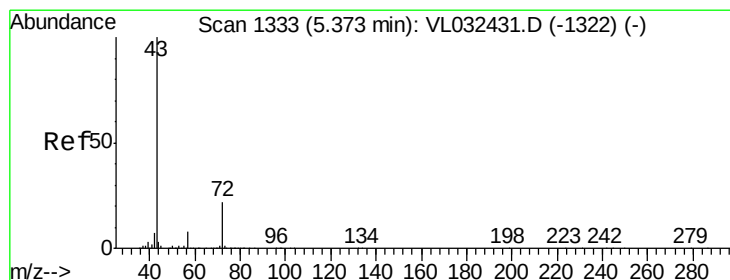
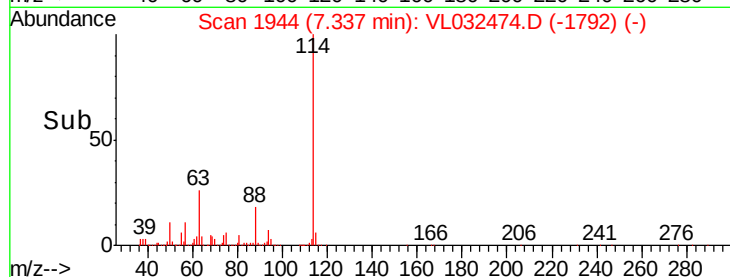
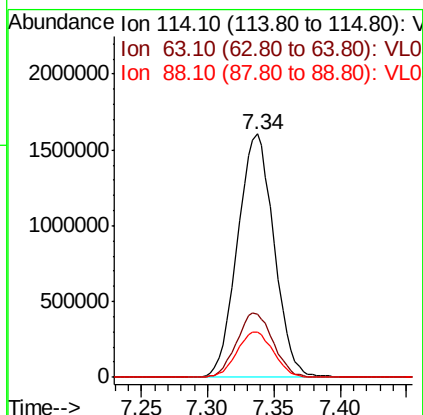
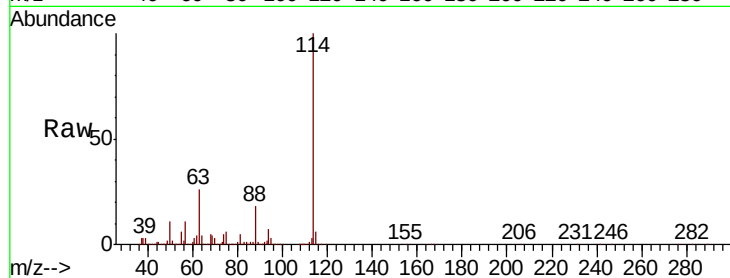




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

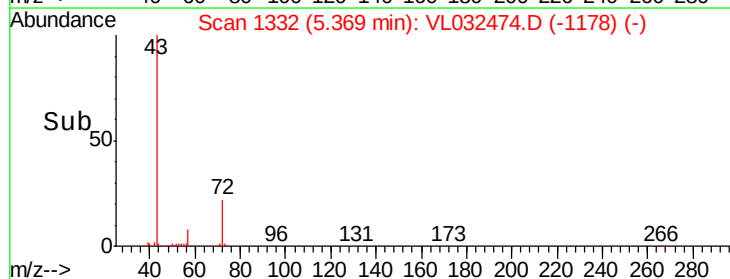
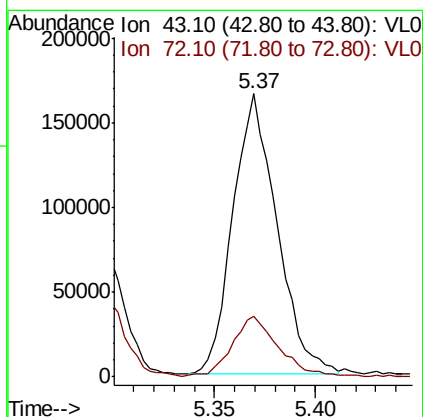
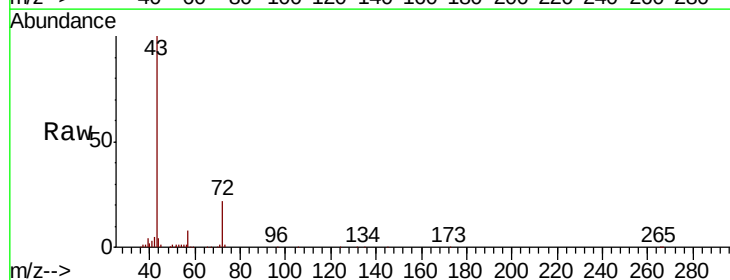
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

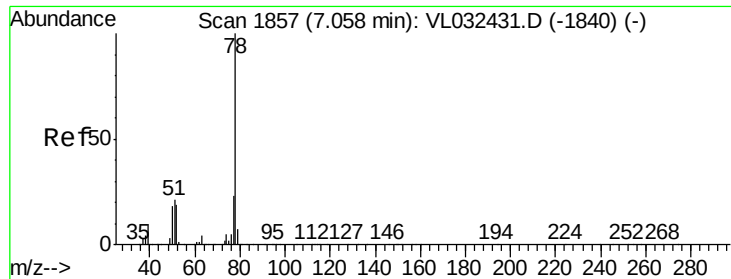
Tgt Ion: 114 Resp: 3069105
 Ion Ratio Lower Upper
 114 100
 63 26.5 22.2 33.4
 88 18.7 15.0 22.4



#34
 2-Butanone
 Concen: 1.242 ppbv
 RT: 5.37 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion: 43 Resp: 253268
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.8 26.6





#36

Benzene

Concen: 0.292 ppbv

RT: 7.05 min Scan# 1854

Delta R.T. -0.01 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

ClientSampleId :

VP-6DL

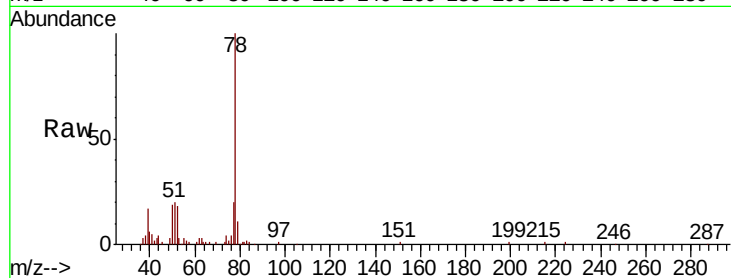
Tgt Ion: 78 Resp: 76144

Ion Ratio Lower Upper

78 100

77 19.2 18.4 27.6

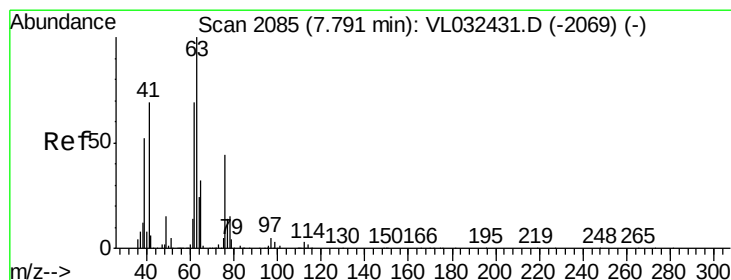
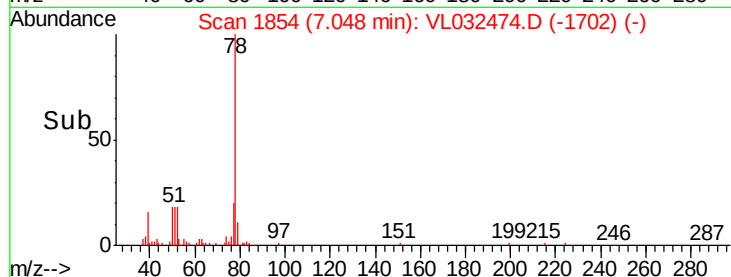
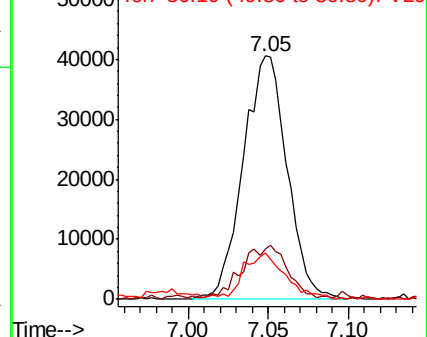
50 18.4 14.4 21.6



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.233 ppbv

RT: 7.33 min Scan# 1943

Delta R.T. -0.46 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

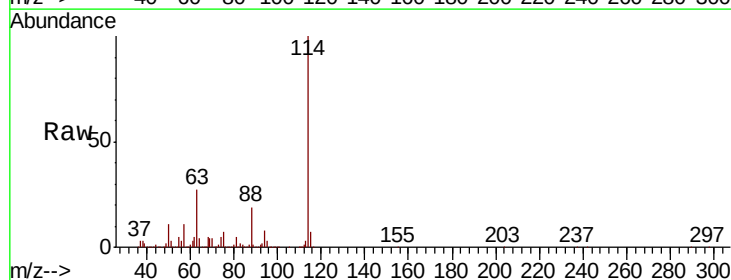
Tgt Ion: 63 Resp: 808259

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

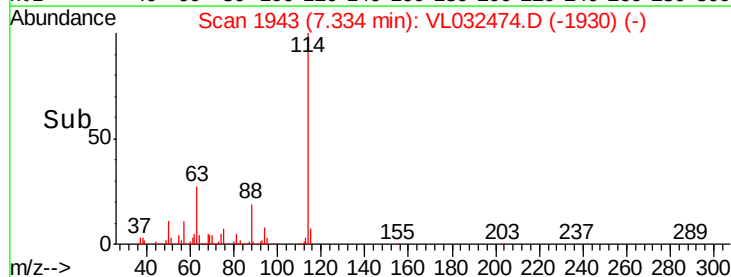
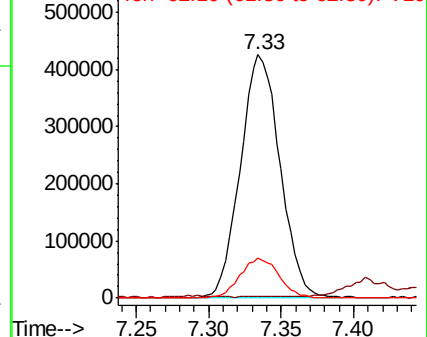
62 16.6 55.4 83.0#

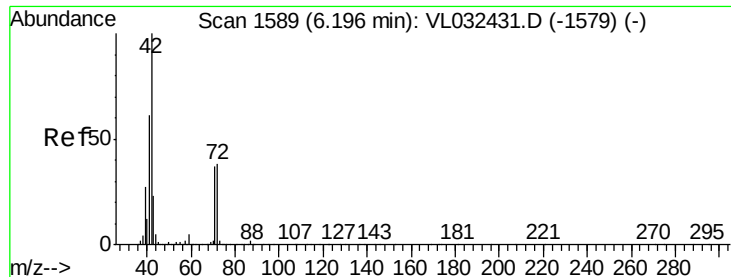


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

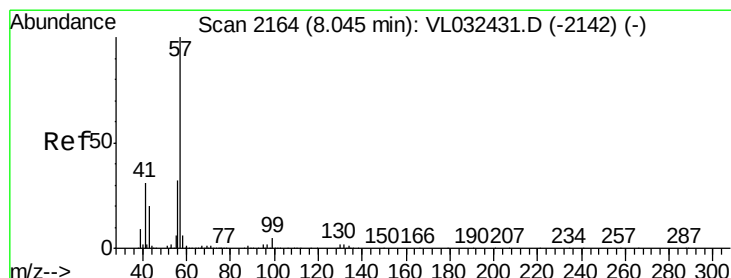
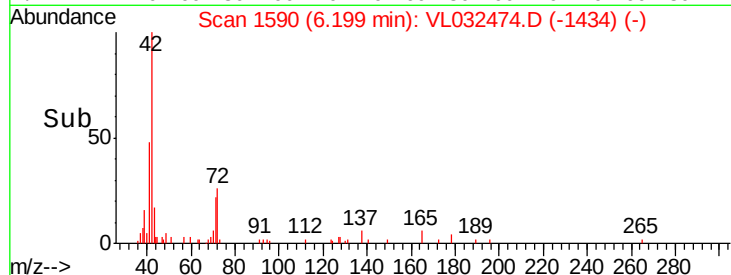
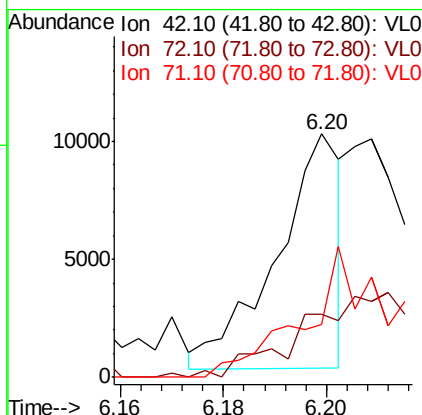
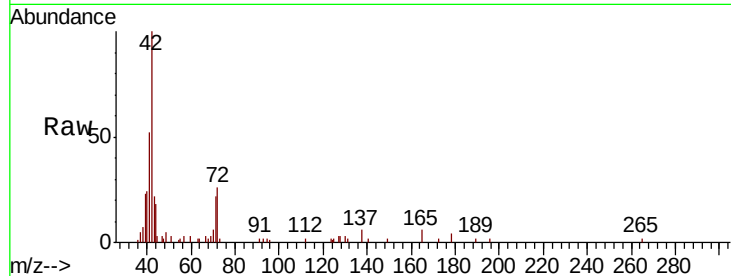




#41
Tetrahydrofuran
Concen: 0.078 ppbv
RT: 6.20 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

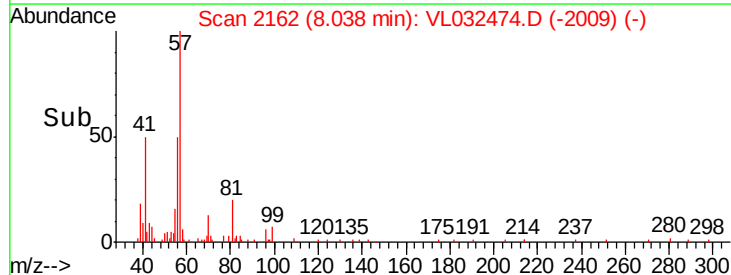
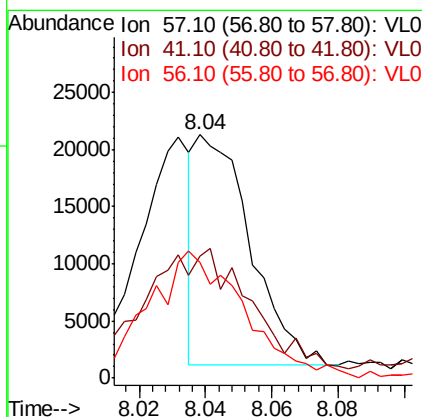
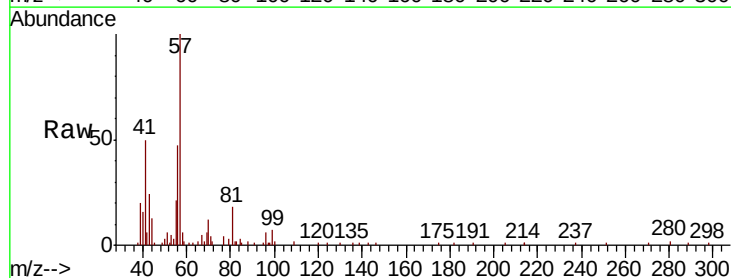
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

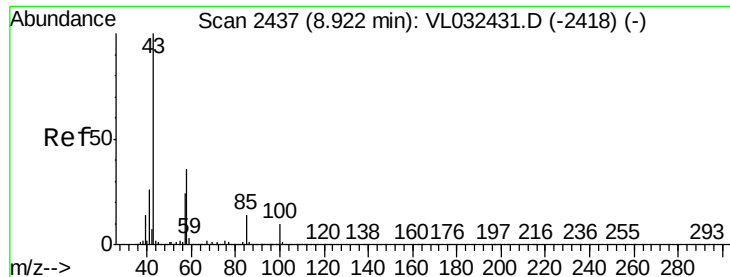
Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.5	44.3#
71	82.3	28.3	42.5#



#44
2,2,4-Trimethylpentane
Concen: 0.045 ppbv
RT: 8.04 min Scan# 2162
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.4	36.6#
56	102.9	25.7	38.5#

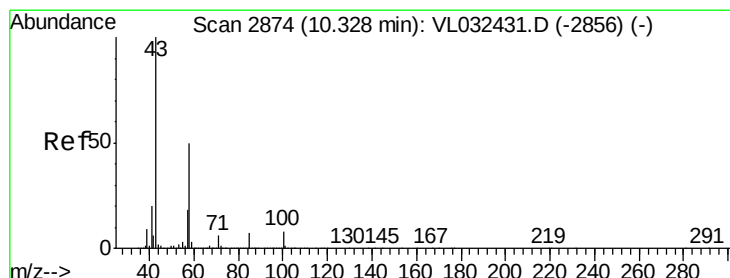
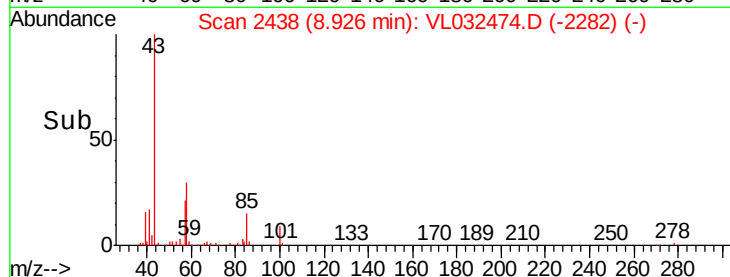
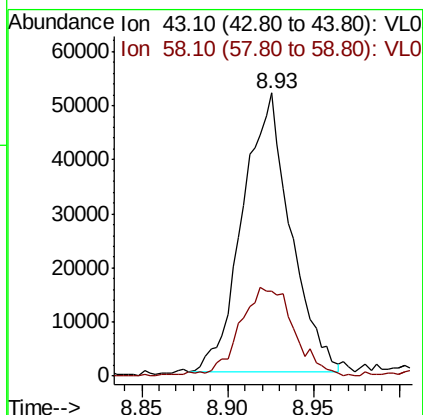
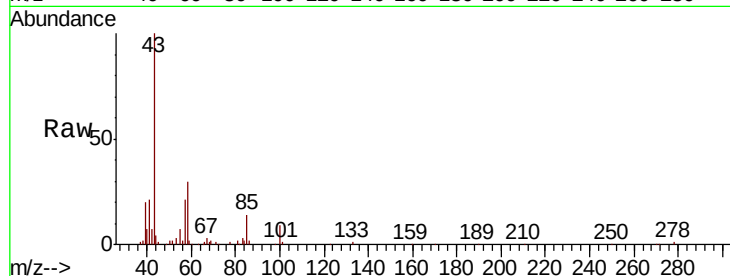




#50
4-Methyl-2-Pentanone
Concen: 0.327 ppbv
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

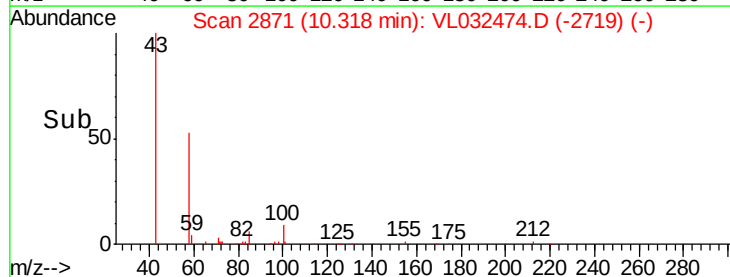
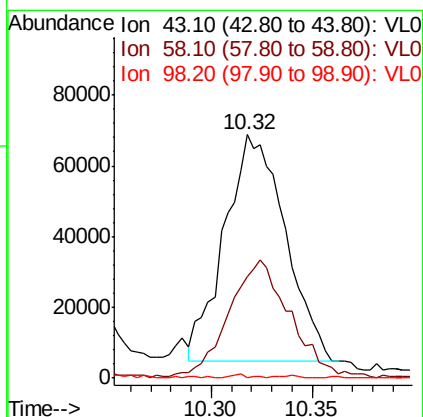
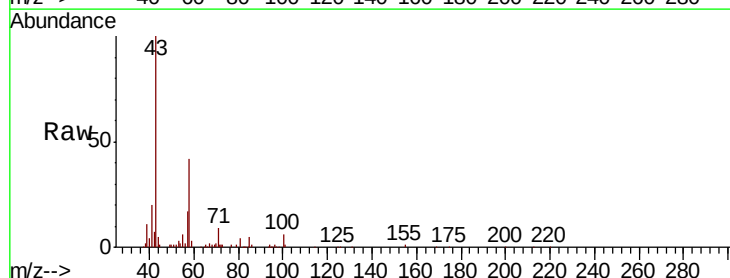
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

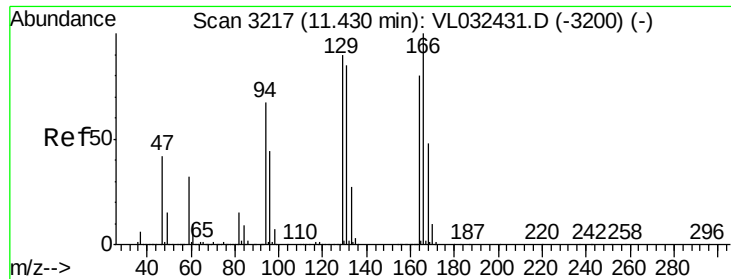
Tgt Ion: 43 Resp: 100470
Ion Ratio Lower Upper
43 100
58 36.7 29.0 43.4



#51
2-Hexanone
Concen: 0.682 ppbv
RT: 10.32 min Scan# 2871
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 43 Resp: 134860
Ion Ratio Lower Upper
43 100
58 53.2 39.2 58.8
98 1.1 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.080 ppbv

RT: 11.42 min Scan# 3213

Delta R.T. -0.01 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

ClientSampleId :

VP-6DL

Tgt Ion:164 Resp: 6443

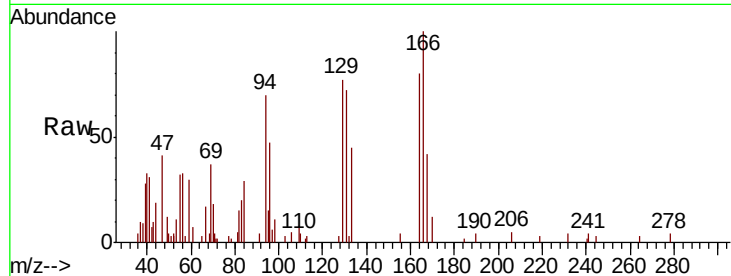
Ion Ratio Lower Upper

164 100

166 116.7 100.6 150.8

129 89.3 89.9 134.9#

131 75.3 85.9 128.9#

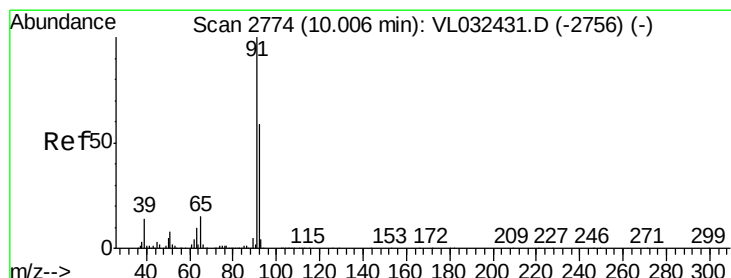
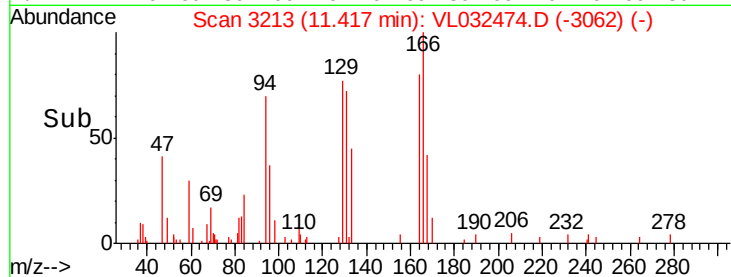
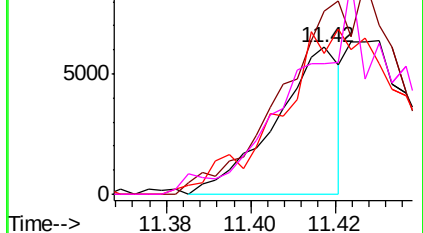


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.644 ppbv

RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032474.D

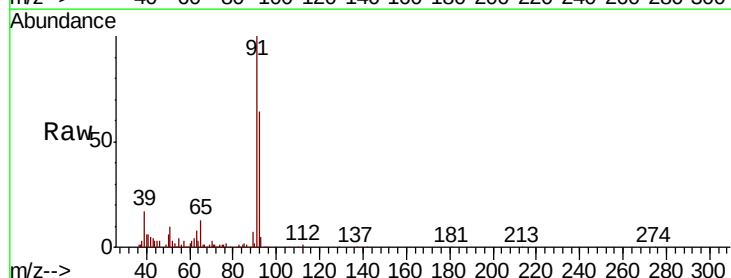
Acq: 6 Sep 2018 3:11

Tgt Ion: 91 Resp: 175808

Ion Ratio Lower Upper

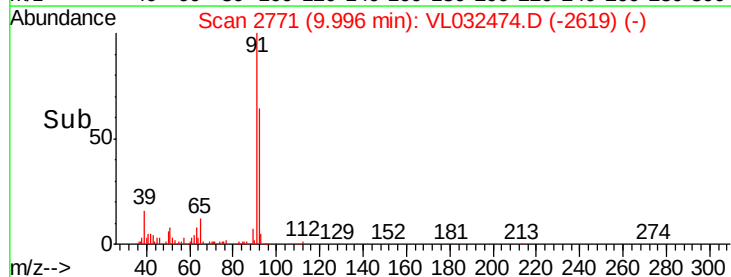
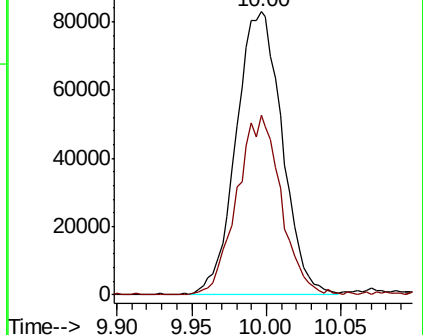
91 100

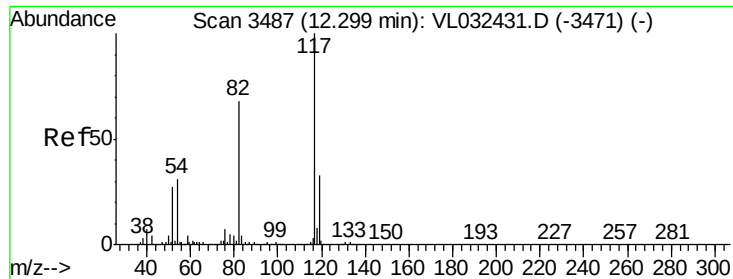
92 61.5 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

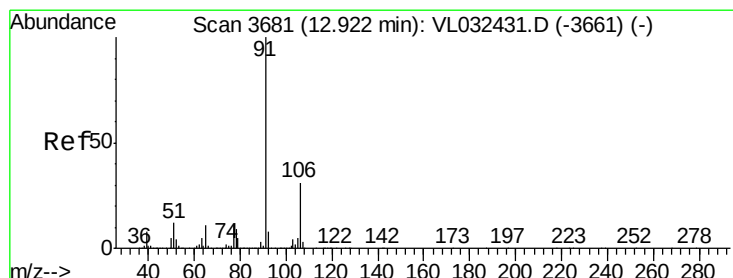
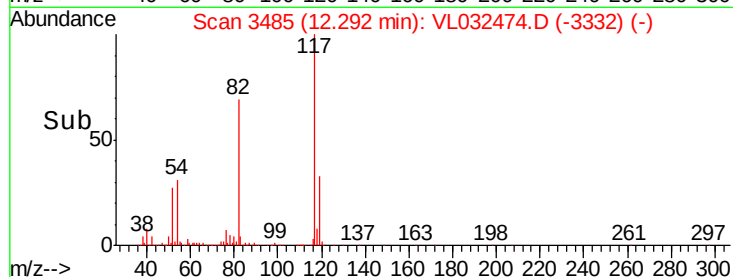
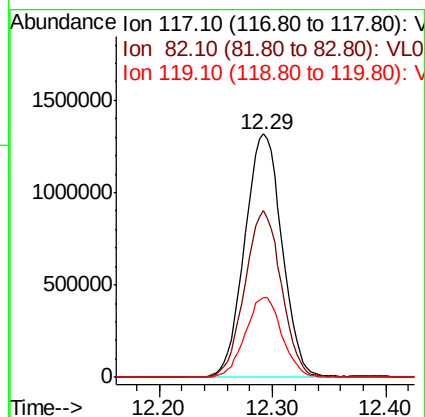
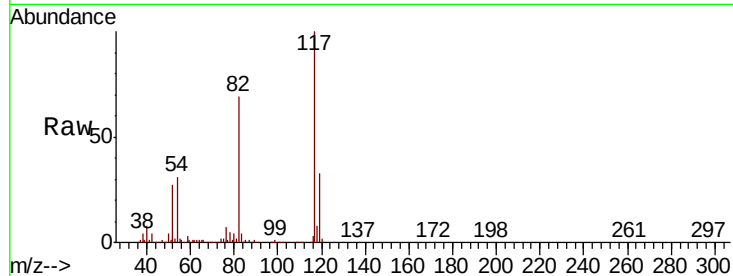




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

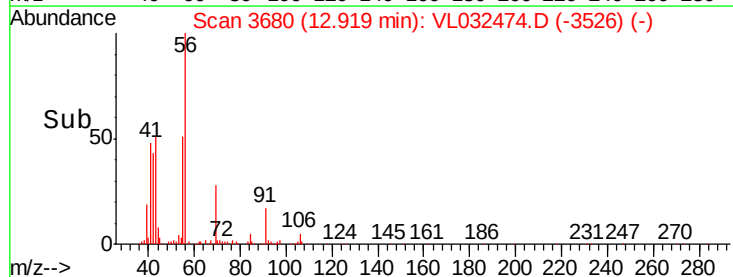
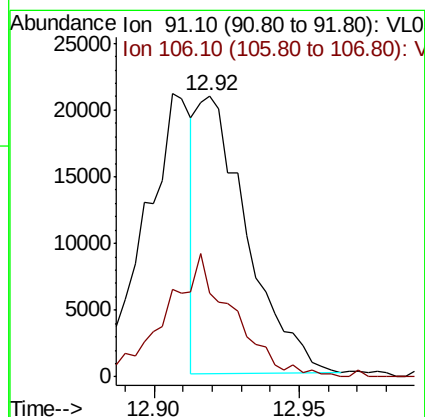
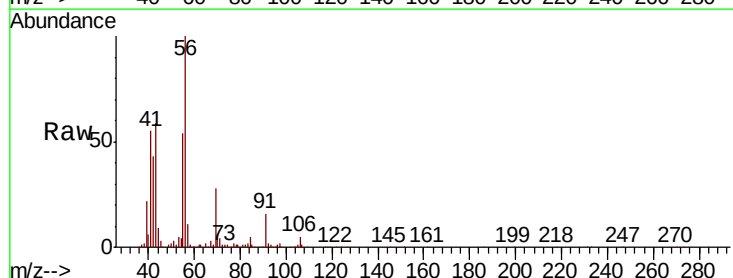
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

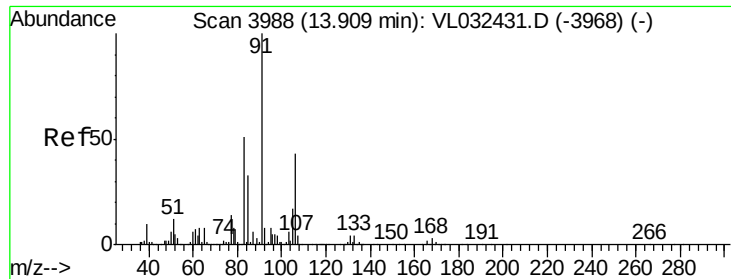
Tgt Ion: 117 Resp: 3023240
Ion Ratio Lower Upper
117 100
82 67.0 53.0 79.6
119 32.3 45.9 68.9#



#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 12.92 min Scan# 3680
Delta R.T. -0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 91 Resp: 24817
Ion Ratio Lower Upper
91 100
106 30.8 24.8 37.2

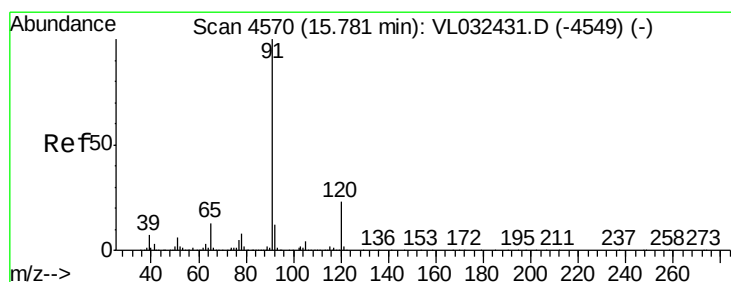
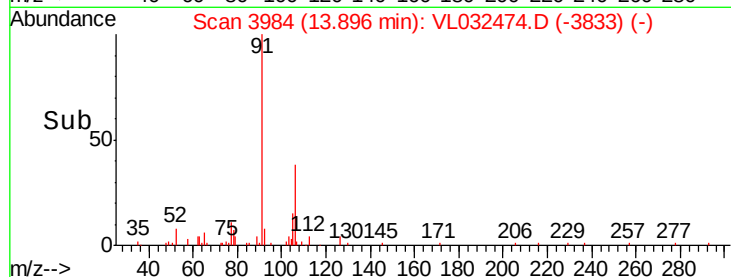
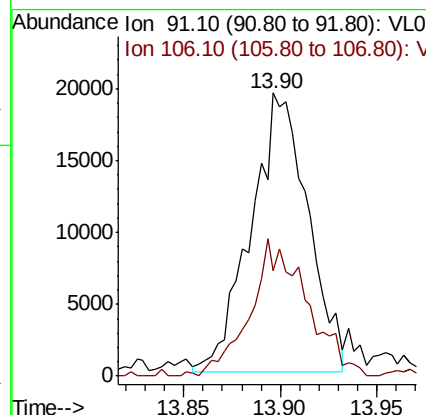
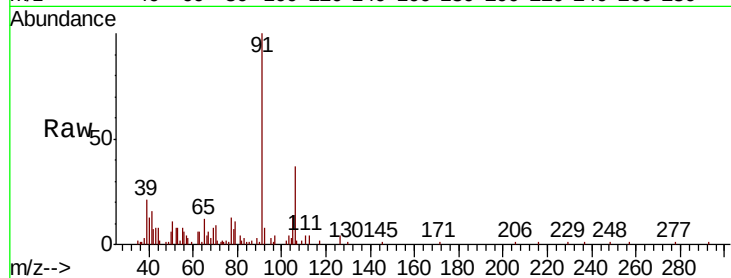




#60
o-Xylene
Concen: 0.126 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

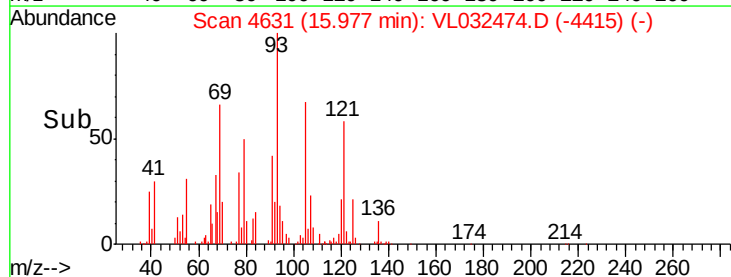
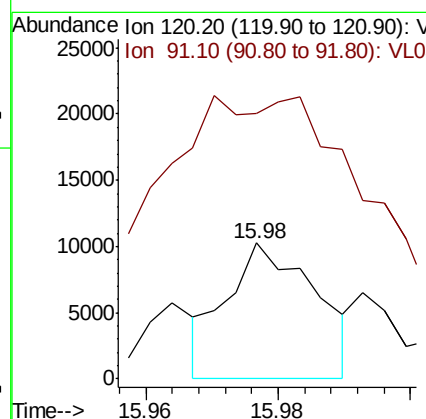
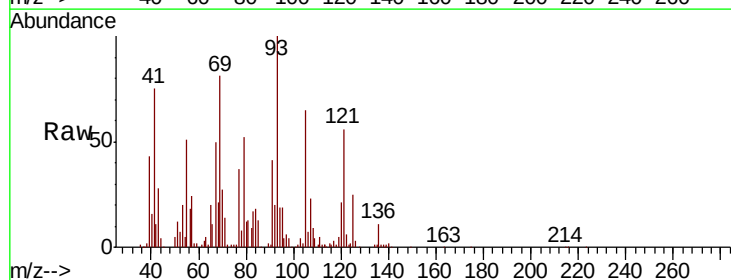
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

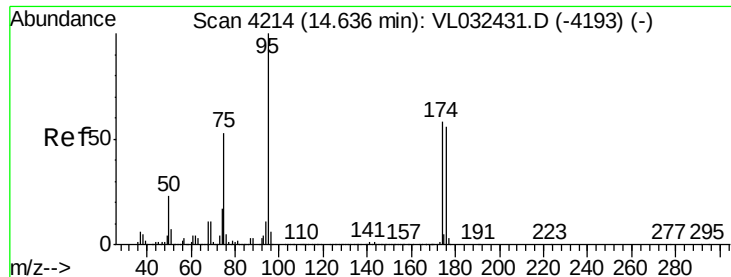
Tgt Ion: 91 Resp: 39950
Ion Ratio Lower Upper
91 100
106 50.1 21.9 65.7



#64
n-propylbenzene
Concen: 0.082 ppbv
RT: 15.98 min Scan# 4631
Delta R.T. 0.20 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 120 Resp: 9574
Ion Ratio Lower Upper
120 100
91 555.1 381.8 572.6

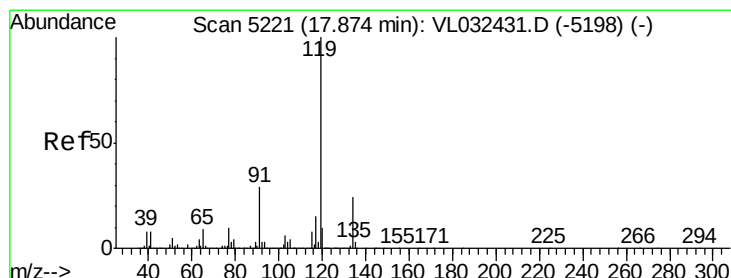
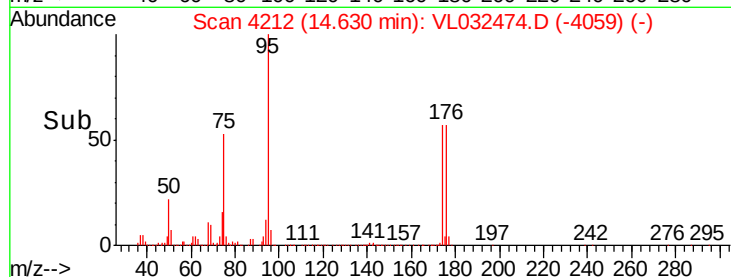
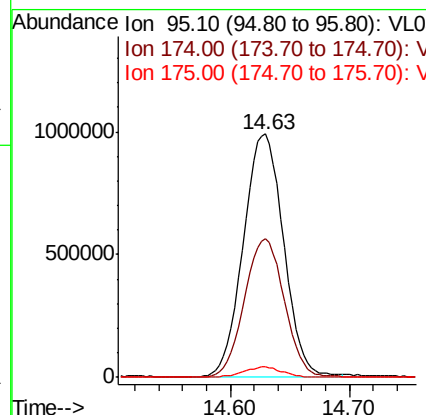
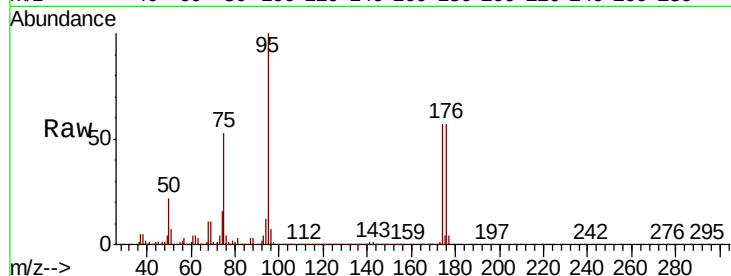




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.355 ppbv
 RT: 14.63 min Scan# 4212
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

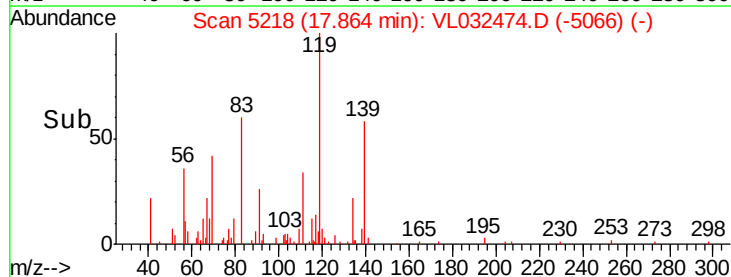
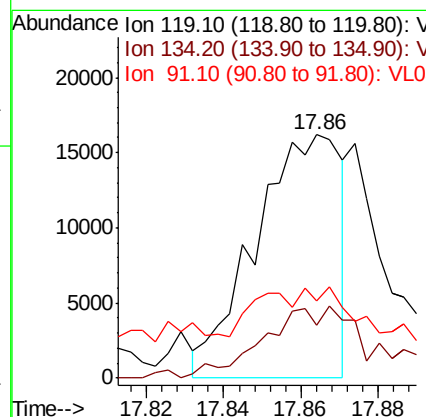
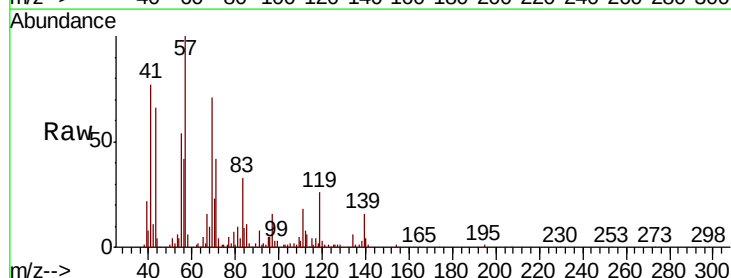
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

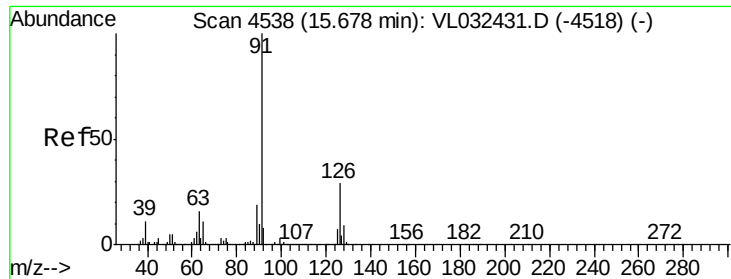
Tgt Ion: 95 Resp: 2324254
 Ion Ratio Lower Upper
 95 100
 174 56.9 46.3 69.5
 175 4.1 3.4 5.0



#69
 p-Isopropyltoluene
 Concen: 0.056 ppbv
 RT: 17.86 min Scan# 5218
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion: 119 Resp: 24995
 Ion Ratio Lower Upper
 119 100
 134 38.1 20.4 30.6#
 91 55.3 23.4 35.2#

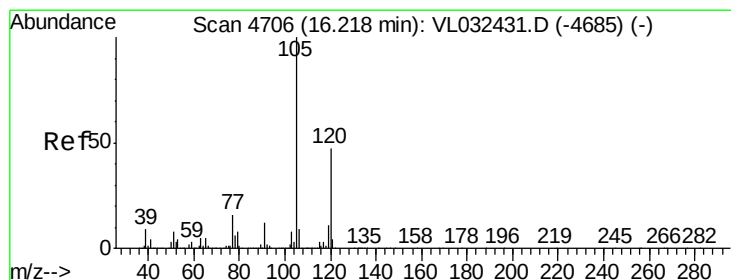
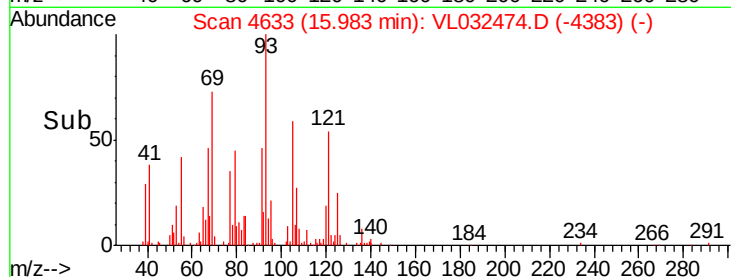
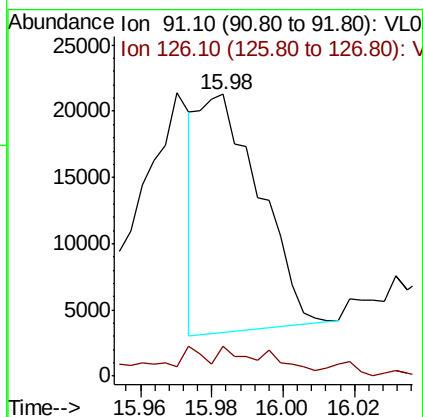
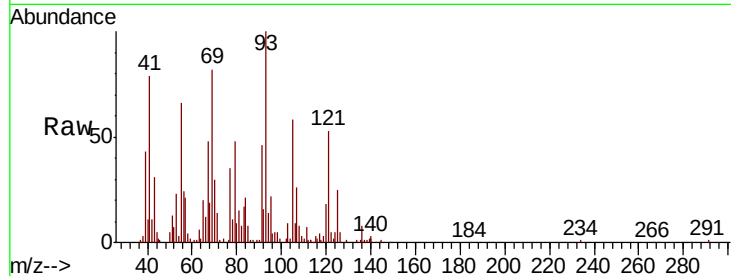




#71
 2-Chlorotoluene
 Concen: 0.063 ppbv
 RT: 15.98 min Scan# 4633
 Delta R.T. 0.31 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

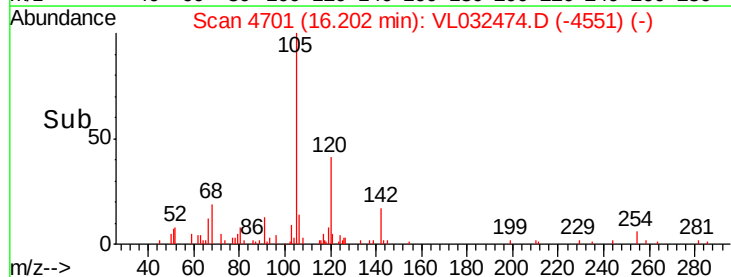
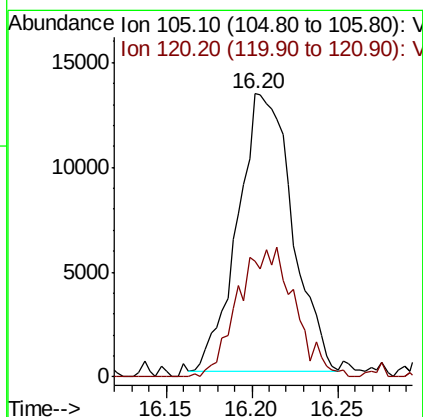
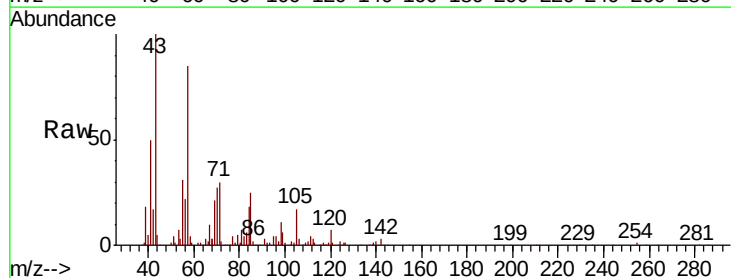
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

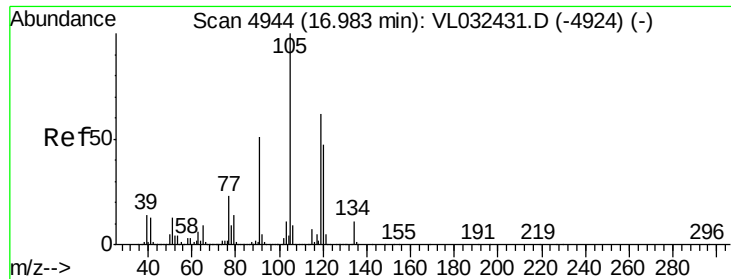
Tgt Ion: 91 Resp: 21600
 Ion Ratio Lower Upper
 91 100
 126 23.4 11.9 47.7



#73
 1,3,5-Trimethylbenzene
 Concen: 0.084 ppbv
 RT: 16.20 min Scan# 4701
 Delta R.T. -0.02 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion: 105 Resp: 29284
 Ion Ratio Lower Upper
 105 100
 120 41.7 37.9 56.9

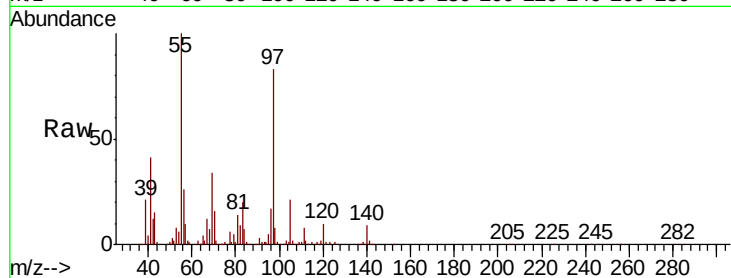




#74
 1,2,4-Trimethylbenzene
 Concen: 0.230 ppbv
 RT: 16.98 min Scan# 4943
 Delta R.T. -0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

Tgt Ion:	105	Resp:	87080
Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8
91	10.8	41.4	62.0#
77	21.3	18.6	28.0



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

