

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037138.D
 Acq On : 8 Jun 2021 18:59
 Operator : SY/AP
 Sample : M2614-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 09 01:21:06 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1401638	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	4039330	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	3641624	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2743677	10.03	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

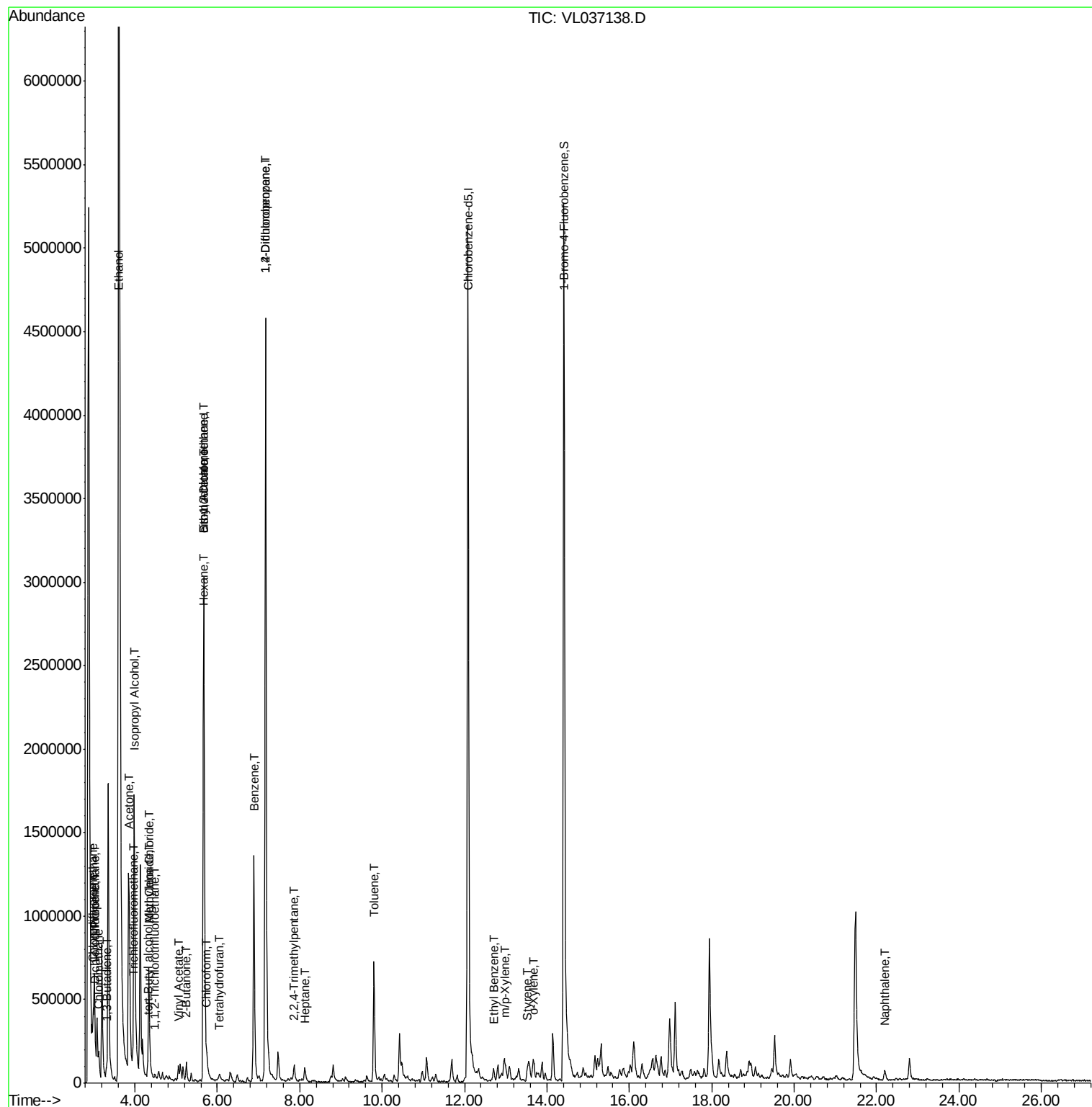
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	73856	0.311	ppbv	89
3) Chlorodifluoromethane	2.98	51	572384	2.229	ppbv #	92
4) Chloromethane	3.13	50	49370	0.565	ppbv	99
9) Propene	3.02	41	218692	2.378	ppbv #	83
10) Heptane	8.12	43	19126	0.083	ppbv #	39
11) Trichlorofluoromethane	3.95	101	54391	0.247	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5566	0.036	ppbv #	14
13) Ethanol	3.62	45	14276879	1163.720	ppbv	99
15) Acetone	3.84	43	1749745	12.188	ppbv	91
16) 1,3-Butadiene	3.30	39	14936	0.167	ppbv #	1
17) tert-Butyl alcohol	4.31	59	25589	0.195	ppbv #	72
19) Isopropyl Alcohol	3.98	45	2323998	30.114	ppbv #	34
20) Methylene Chloride	4.34	84	263986	3.430	ppbv	96
21) Allyl Chloride	4.34	41	4679	0.043	ppbv #	19
23) Vinyl Acetate	5.06	43	57885	0.254	ppbv #	81
25) Ethyl Acetate	5.67	43	628015	1.820	ppbv #	96
26) Hexane	5.68	57	194505	1.104	ppbv #	42
29) Chloroform	5.75	83	43136	0.173	ppbv	95
31) cis-1,2-Dichloroethene	5.67	61	57520	0.364	ppbv #	22
34) 2-Butanone	5.24	43	135728	0.923	ppbv	95
36) Benzene	6.89	78	1271227	3.654	ppbv	100
39) 1,2-Dichloropropane	7.17	63	963431	7.188	ppbv #	26
41) Tetrahydrofuran	6.04	42	2552	0.030	ppbv #	36
44) 2,2,4-Trimethylpentane	7.87	57	80906	0.136	ppbv #	78
53) Toluene	9.80	91	573059	1.384	ppbv	98
58) Ethyl Benzene	12.71	91	56168	0.109	ppbv	98
59) m/p-Xylene	12.99	91	44627	0.105	ppbv #	30
60) o-Xylene	13.68	91	47933	0.118	ppbv	89
61) Styrene	13.52	104	32525	0.142	ppbv #	86
79) Naphthalene	22.20	128	52949	0.145	ppbv #	96

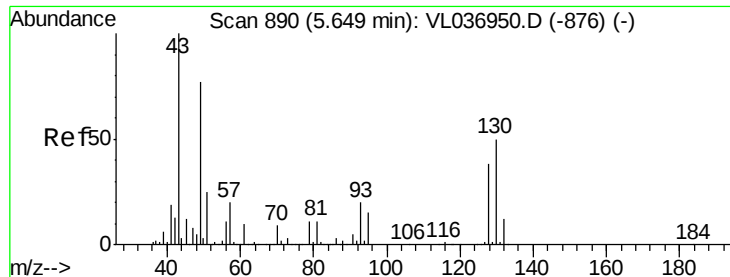
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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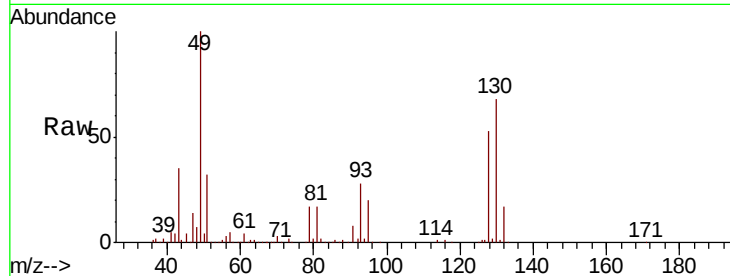


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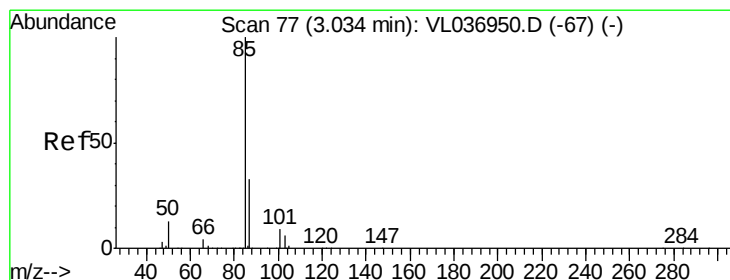
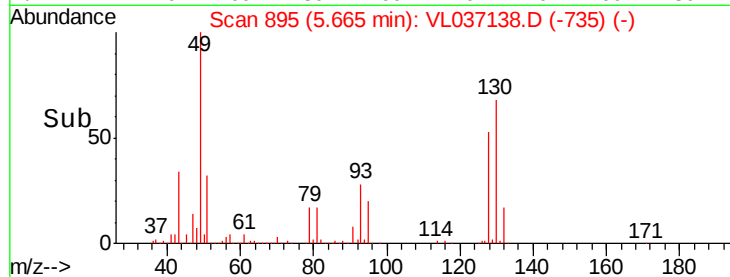
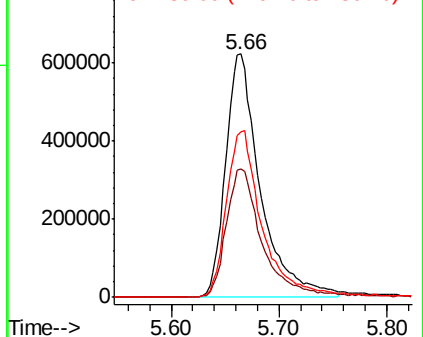
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 49 Resp: 1401638
 Ion Ratio Lower Upper
 49 100
 128 55.9 26.9 80.7
 130 71.9 33.8 101.4



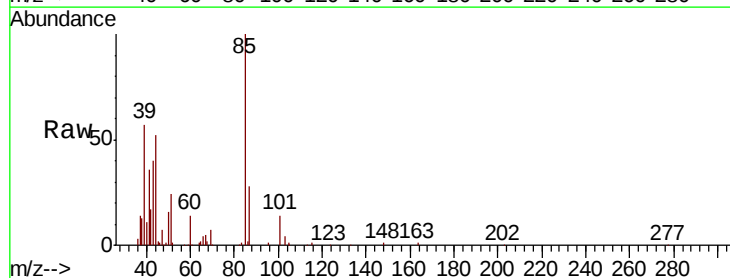
Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V



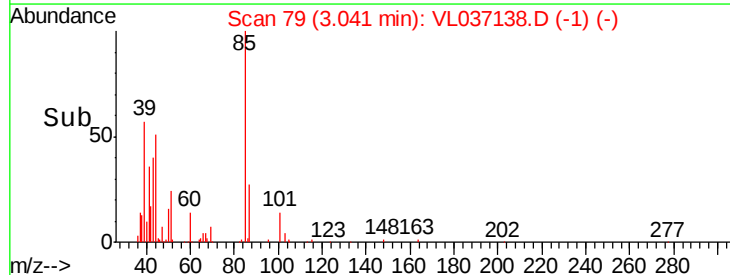
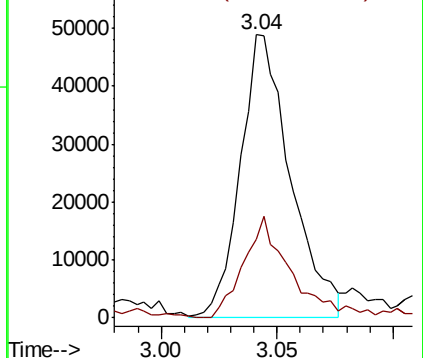
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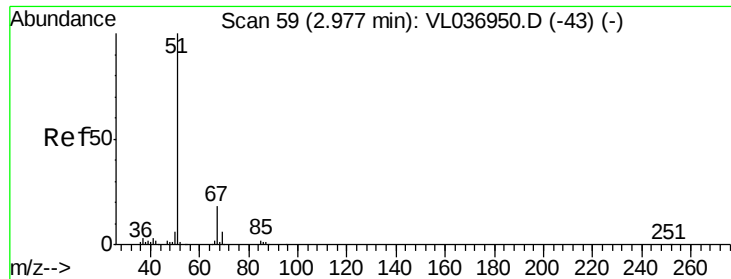
Dichlorodifluoromethane
 Concen: 0.311 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion: 85 Resp: 73856
 Ion Ratio Lower Upper
 85 100
 87 26.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
 Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.229 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

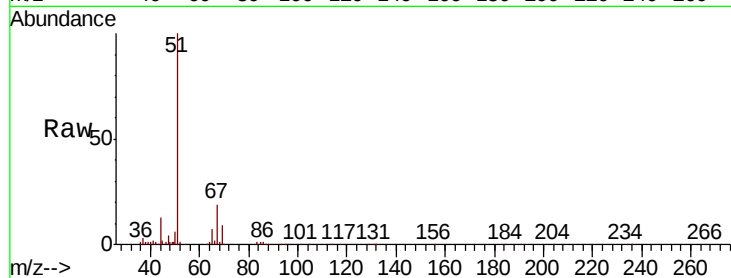
ClientSampleId :

Tot Ion: 51 Resp: 572384

Ion Ratio Lower Upper

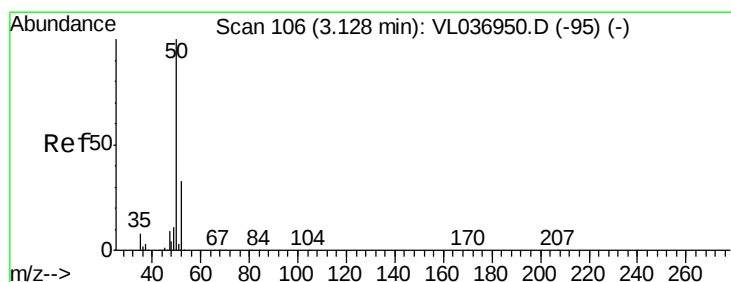
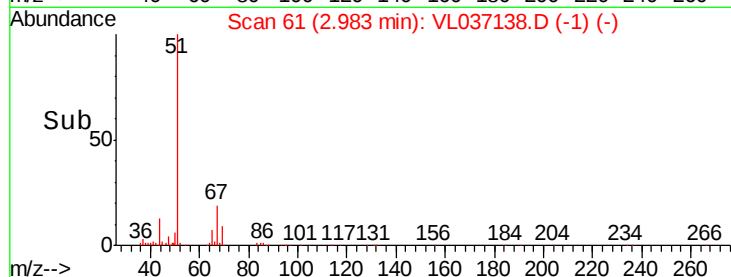
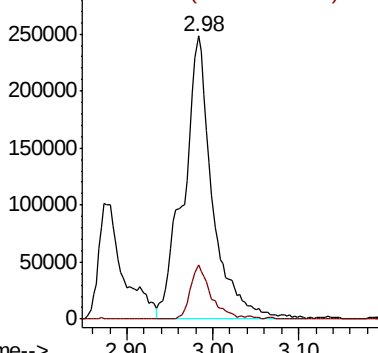
51 100

67 14.5 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.565 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037138.D

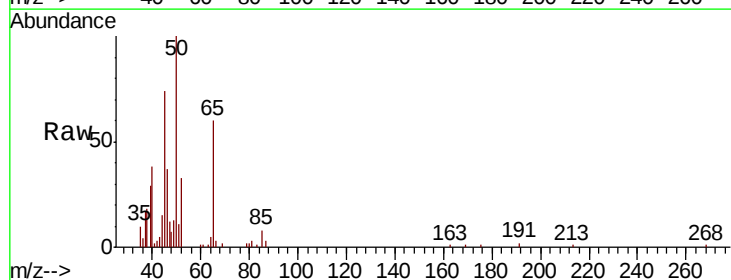
Acq: 8 Jun 2021 18:59

Tgt Ion: 50 Resp: 49370

Ion Ratio Lower Upper

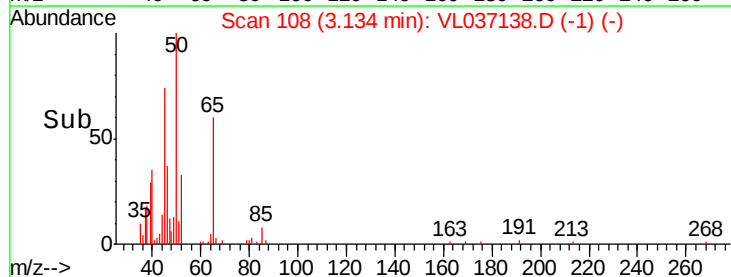
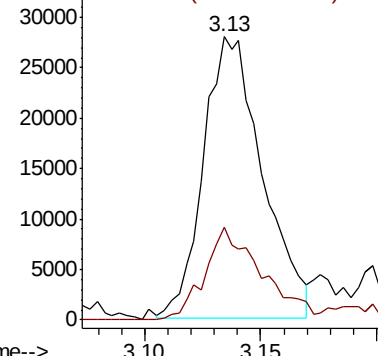
50 100

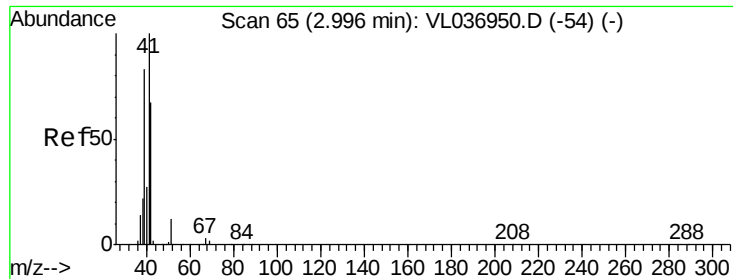
52 33.1 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

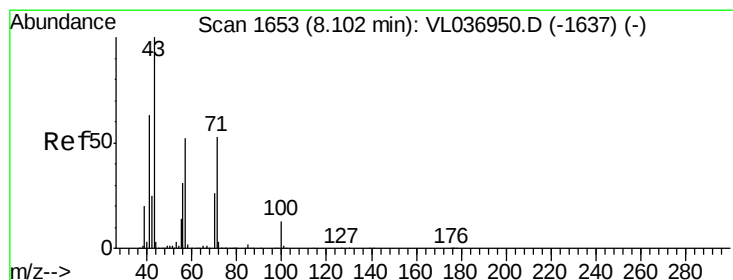
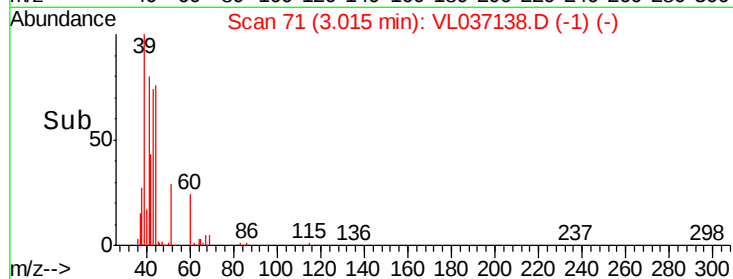
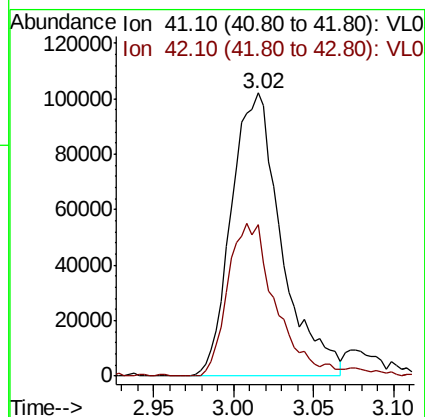
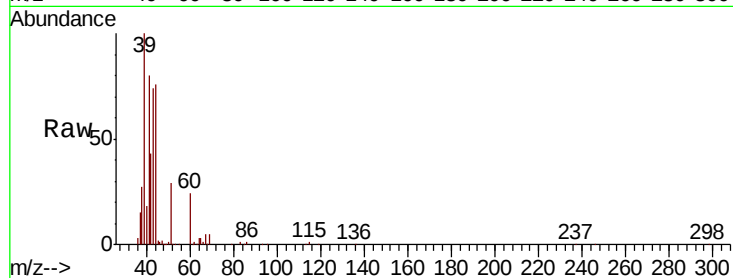




#9
 Propene
 Concen: 2.378 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

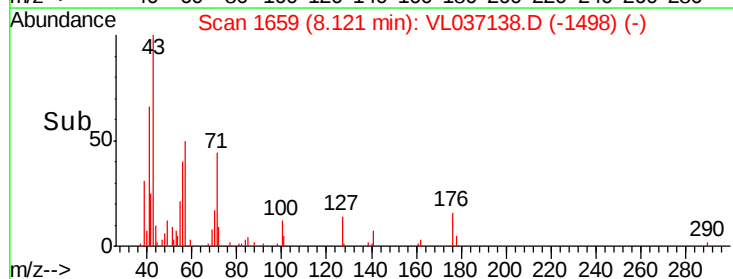
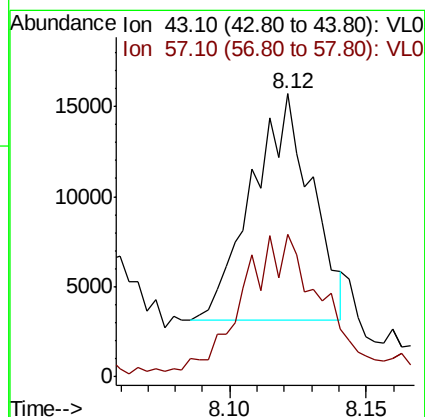
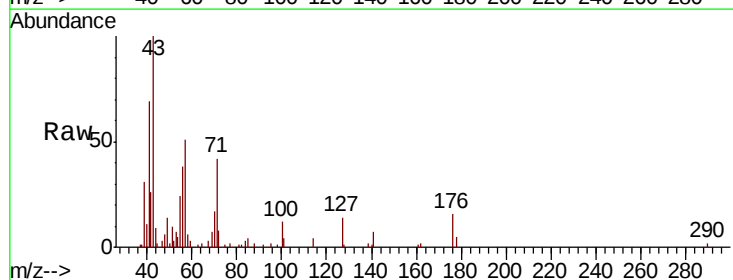
Instrument :
 MSVOA_L
 ClientSampled :

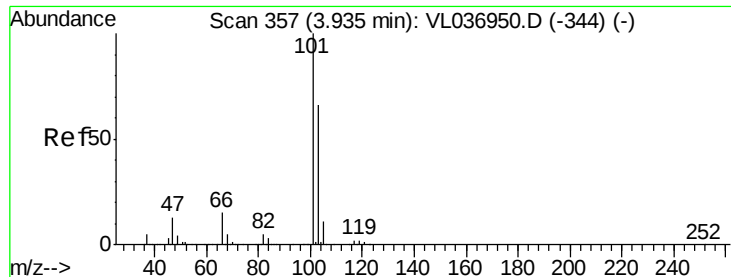
Tot Ion: 41 Resp: 218692
 Ion Ratio Lower Upper
 41 100
 42 53.8 53.9 80.9#



#10
 Heptane
 Concen: 0.083 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion: 43 Resp: 19126
 Ion Ratio Lower Upper
 43 100
 57 93.9 41.0 61.6#

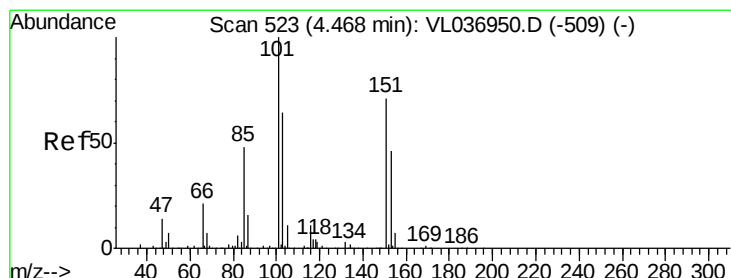
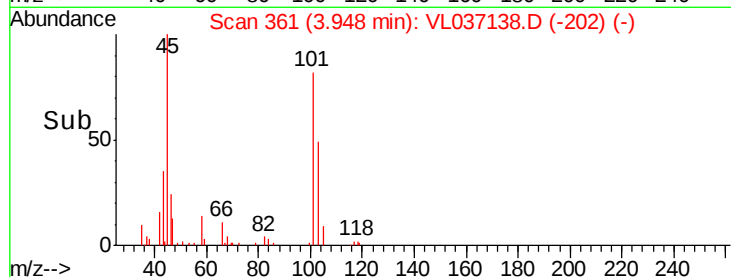
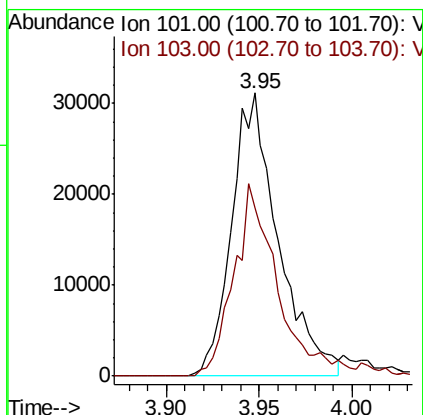
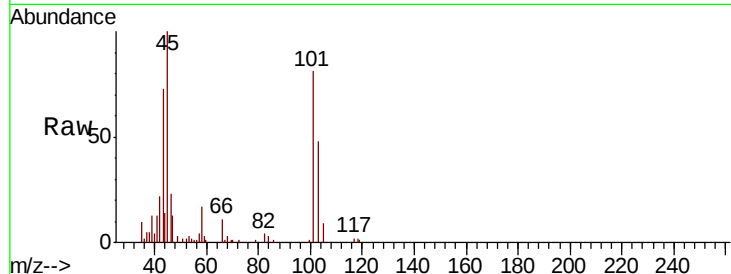




#11
 Trichlorofluoromethane
 Concen: 0.247 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

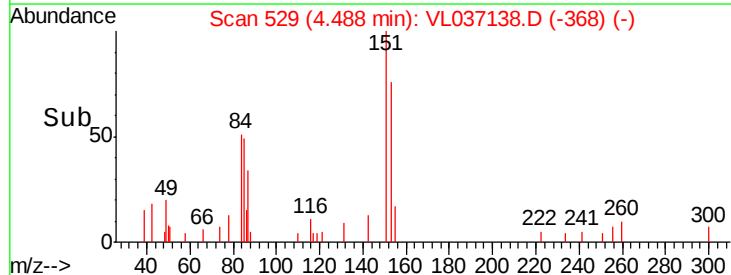
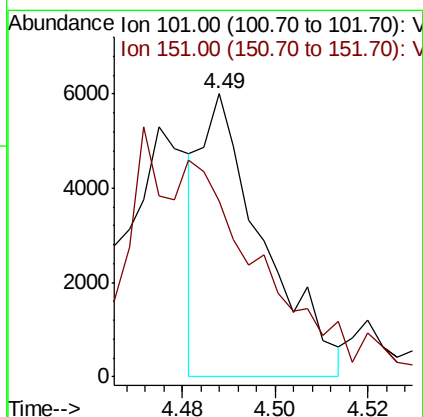
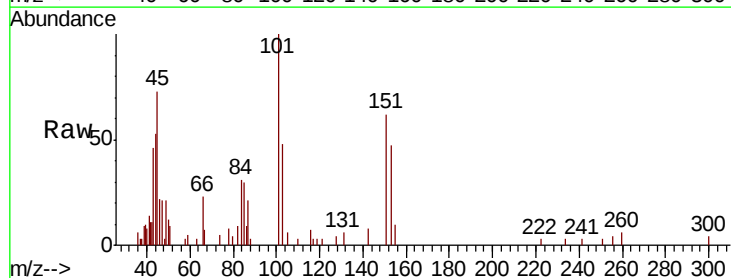
Instrument :
 MSVOA_L
 ClientSampleId :

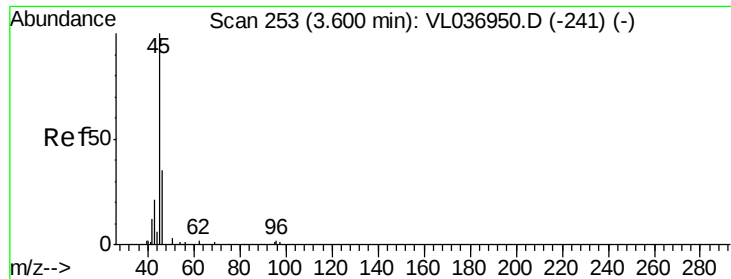
Tot Ion:101 Resp: 54391
 Ion Ratio Lower Upper
 101 100
 103 59.6 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion:101 Resp: 5566
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.7 86.5#

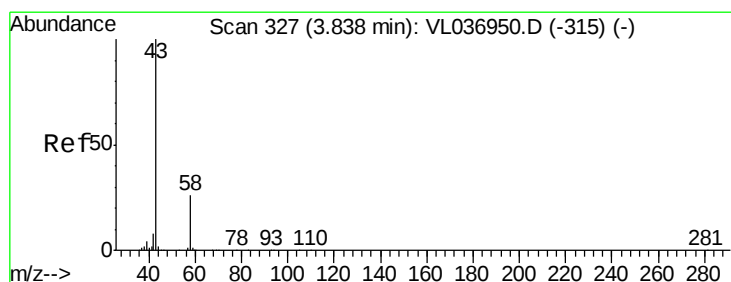
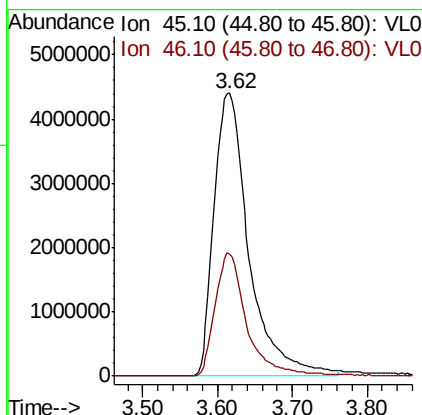
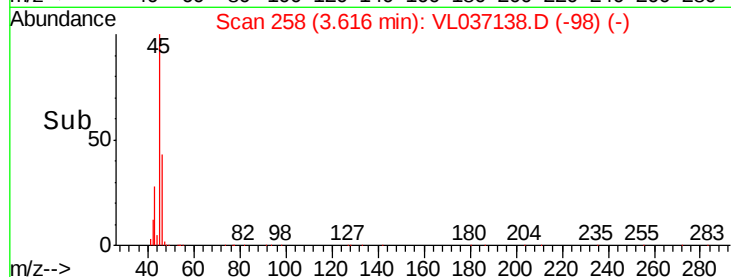
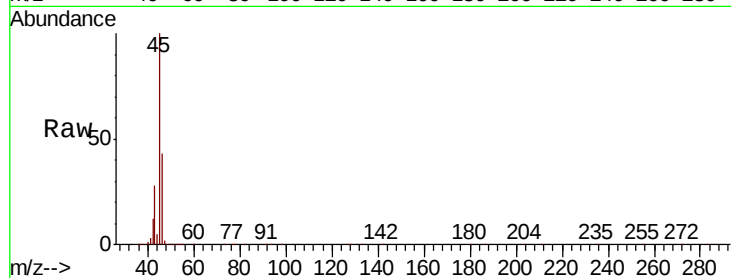




#13
Ethanol
Concen: 1163.720 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

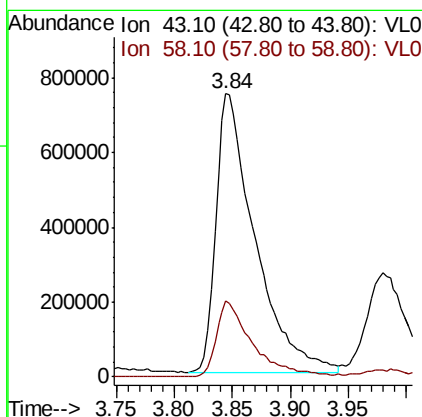
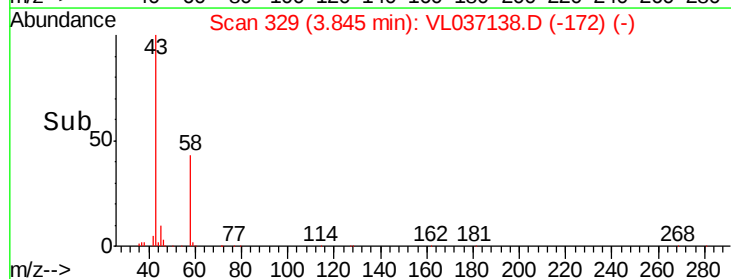
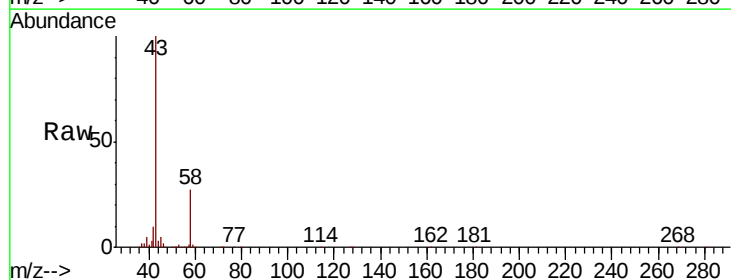
Instrument :
MSVOA_L
ClientSampleId :

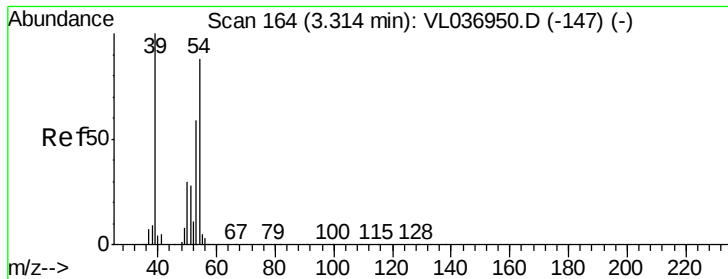
Tot Ion: 45 Resp:14276879
Ion Ratio Lower Upper
45 100
46 40.3 16.3 65.3



#15
Acetone
Concen: 12.188 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 43 Resp: 1749745
Ion Ratio Lower Upper
43 100
58 25.2 24.0 36.0

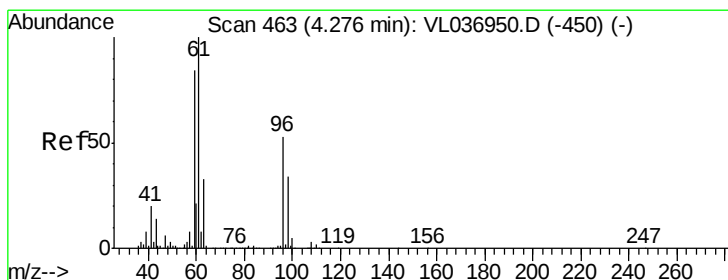
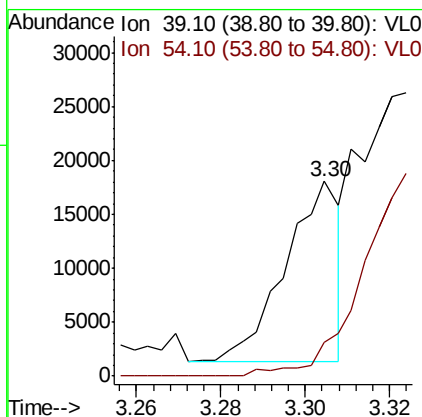
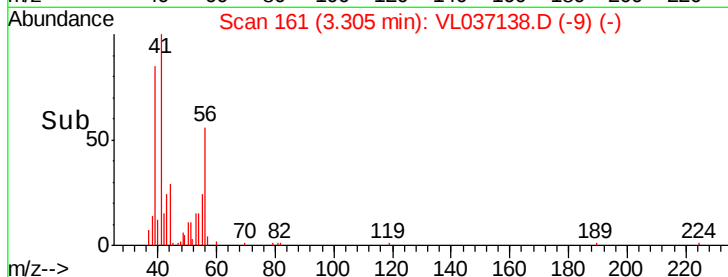
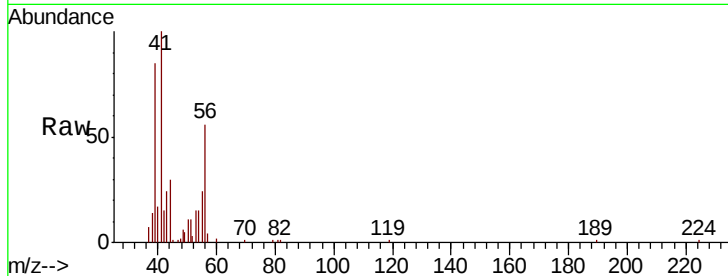




#16
1,3-Butadiene
Concen: 0.167 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

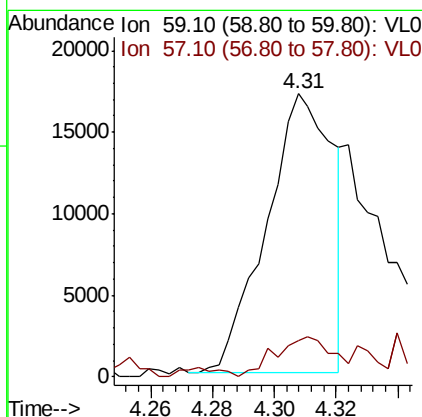
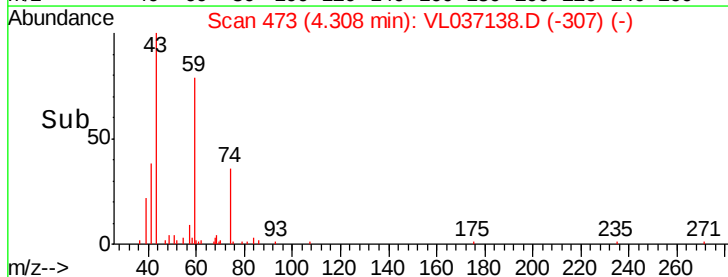
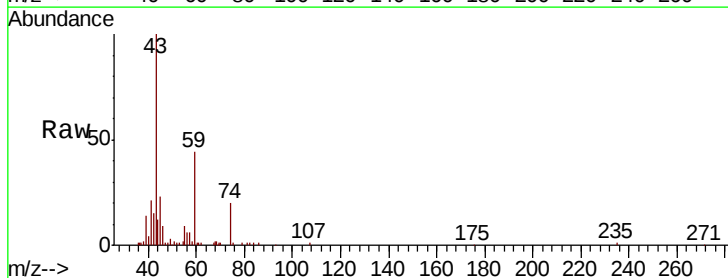
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MSVOA_L
ClientSampleId :

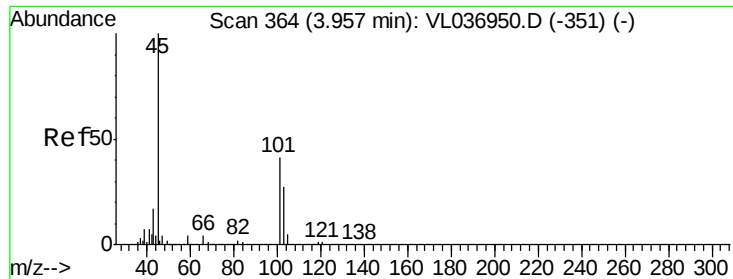
Tot Ion: 39 Resp: 14936
Ion Ratio Lower Upper
39 100
54 255.4 63.2 94.8#



#17
tert-Butyl alcohol
Concen: 0.195 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.03 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 59 Resp: 25589
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

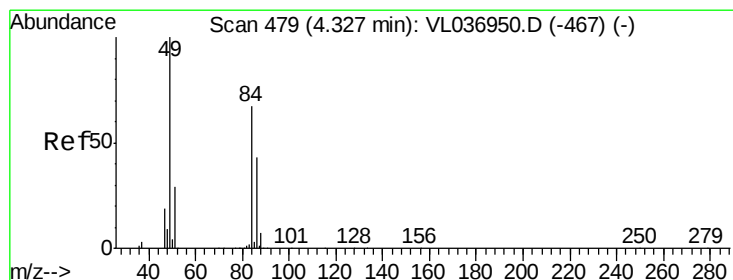
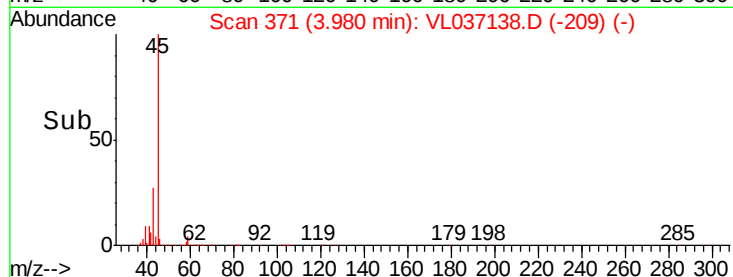
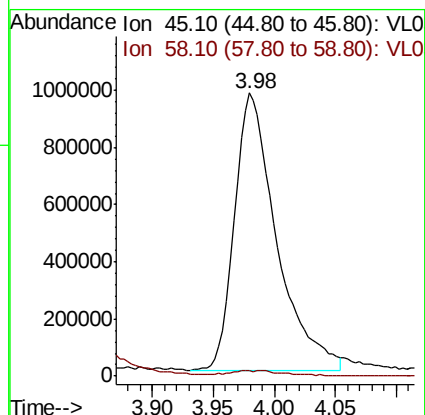
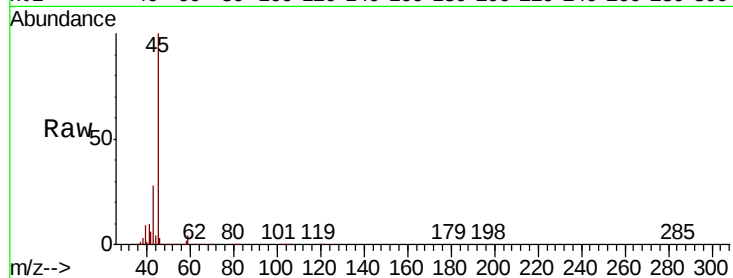




#19
Isopropyl Alcohol
Concen: 30.114 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

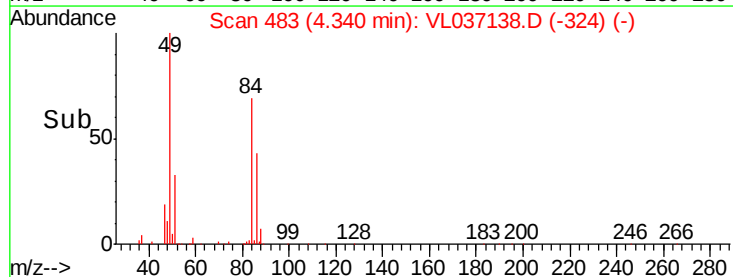
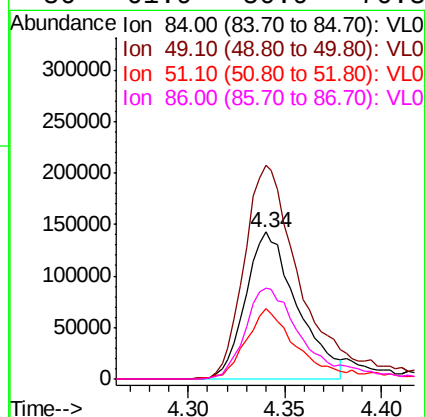
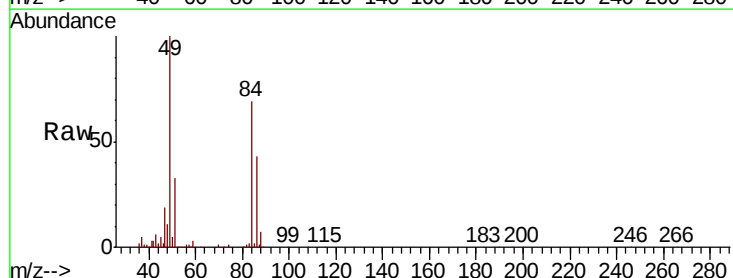
Instrument :
MSVOA_L
ClientSampleId :

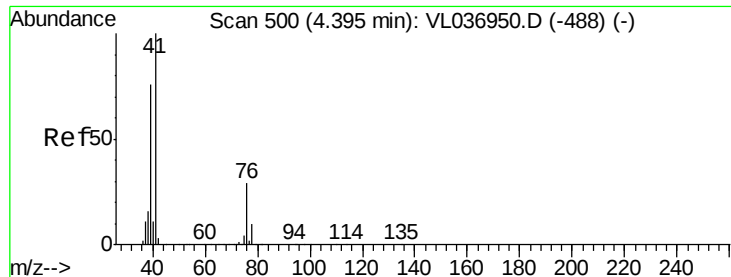
Tot Ion: 45 Resp: 2323998
Ion Ratio Lower Upper
45 100
58 2.7 37.2 55.8#



#20
Methylene Chloride
Concen: 3.430 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 84 Resp: 263986
Ion Ratio Lower Upper
84 100
49 145.2 119.8 179.6
51 47.5 35.1 52.7
86 61.9 50.9 76.3





#21

Allvl Chloride

Concen: 0.043 ppbv

RT: 4.34 min Scan# 484

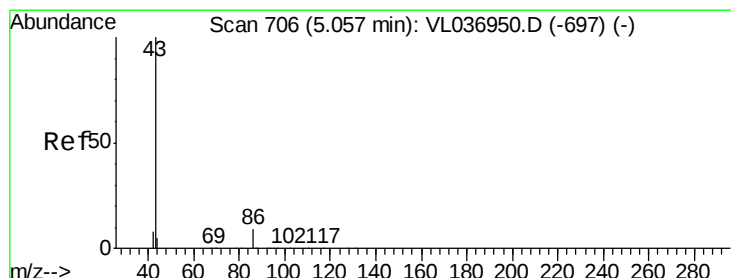
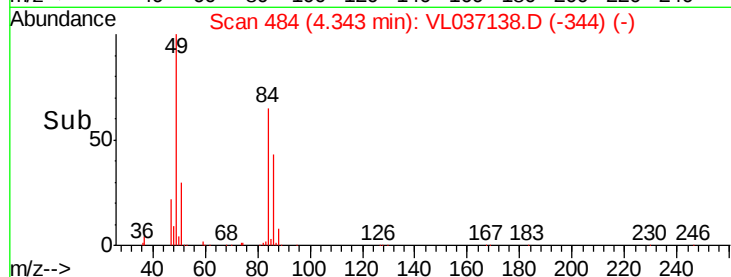
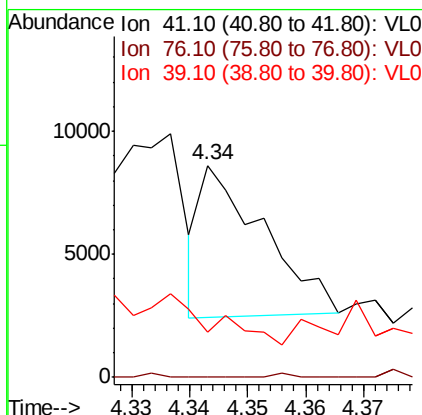
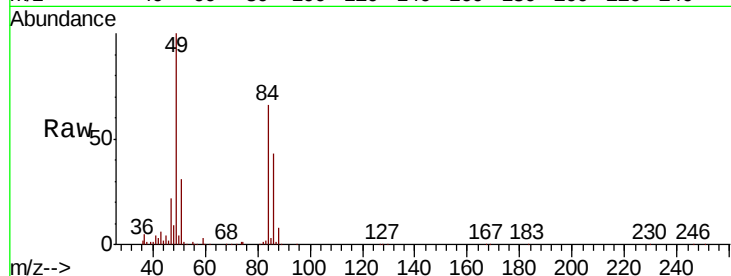
Delta R.T. -0.05 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	4679
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.9	37.3#
39	0.0	63.7	95.5#



#23

Vinyl Acetate

Concen: 0.254 ppbv

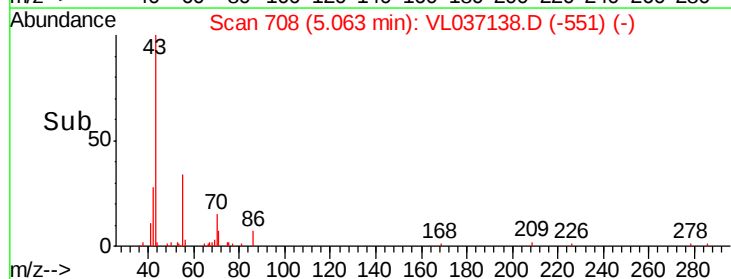
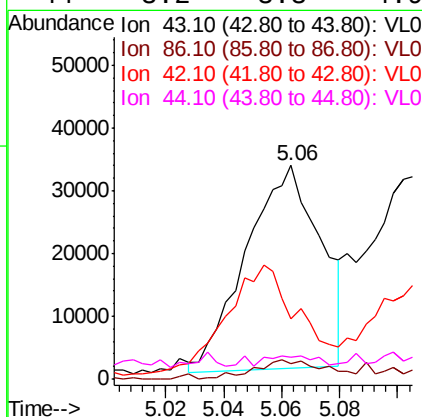
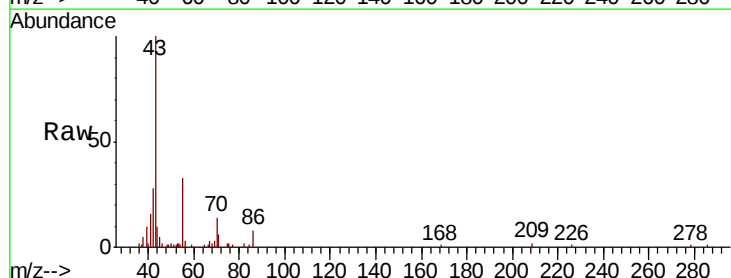
RT: 5.06 min Scan# 708

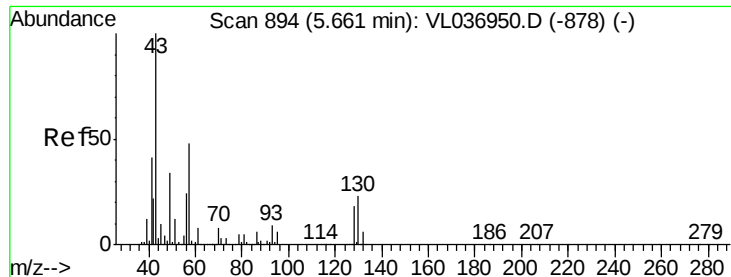
Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Tgt Ion:	43	Resp:	57885
Ion	Ratio	Lower	Upper
43	100		
86	5.8	5.8	8.8#
42	22.7	7.4	11.2#
44	3.2	3.3	4.9#

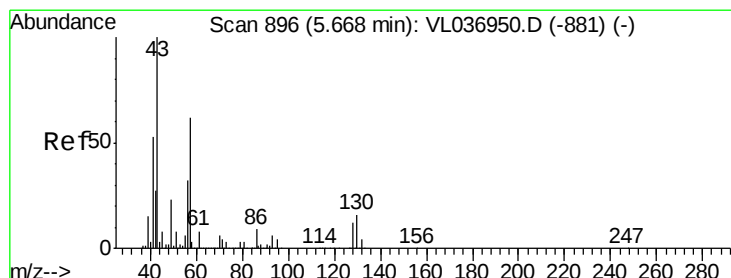
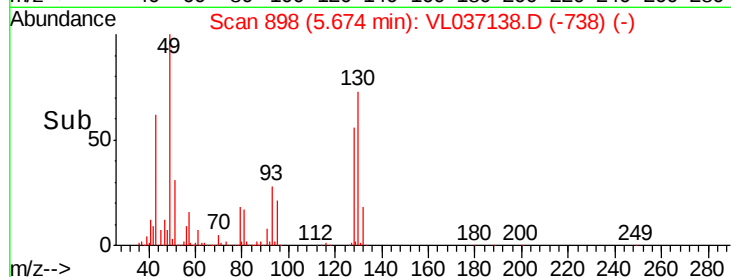
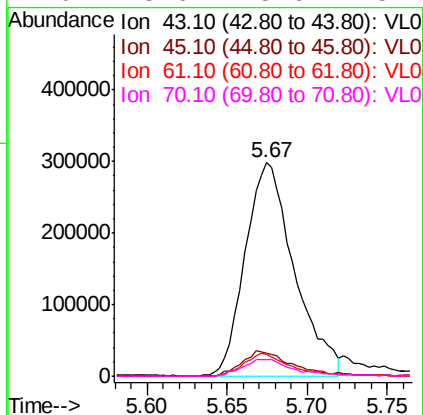
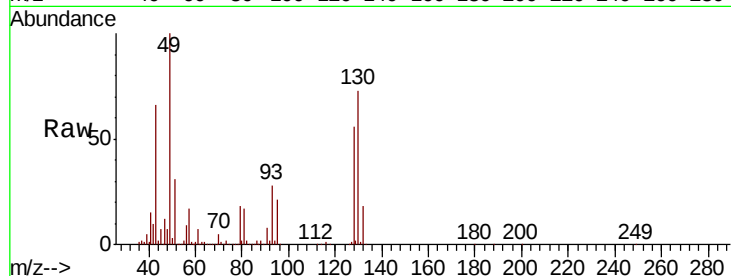




#25
Ethyl Acetate
Concen: 1.820 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

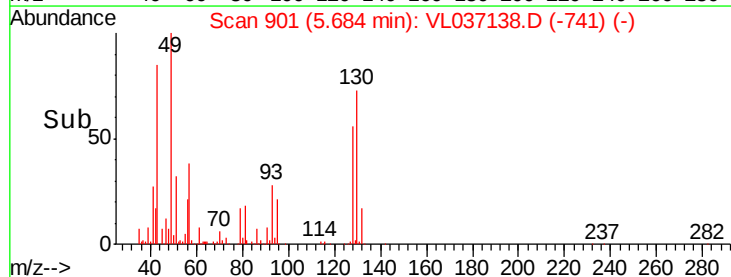
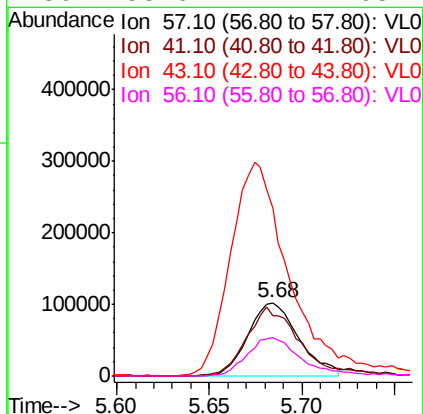
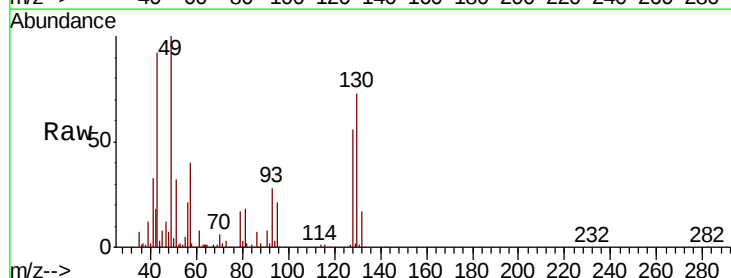
Instrument :
MSVOA_L
ClientSampleId :

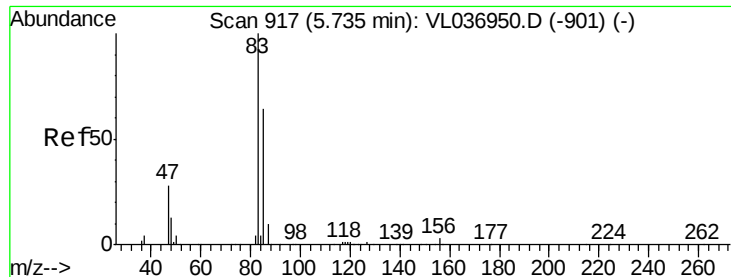
Tot Ion:	43	Resp:	628015
Ion	Ratio	Lower	Upper
43	100		
45	12.1	7.8	11.8#
61	10.6	7.8	11.8
70	8.6	5.6	8.4#



#26
Hexane
Concen: 1.104 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion:	57	Resp:	194505
Ion	Ratio	Lower	Upper
57	100		
41	102.1	70.5	105.7
43	346.1	165.8	248.8#
56	58.6	42.2	63.4





#29

Chloroform

Concen: 0.173 ppbv

RT: 5.75 min Scan# 921

Delta R.T. 0.01 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

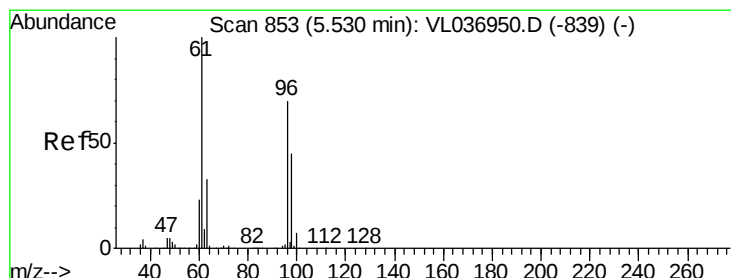
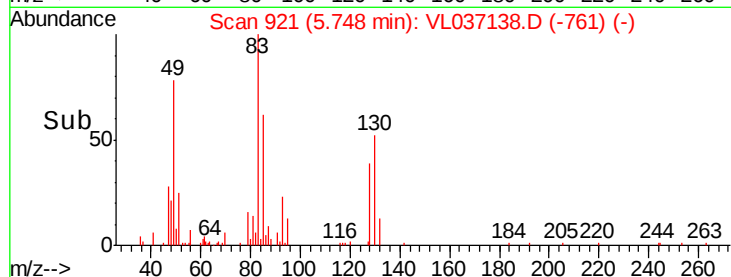
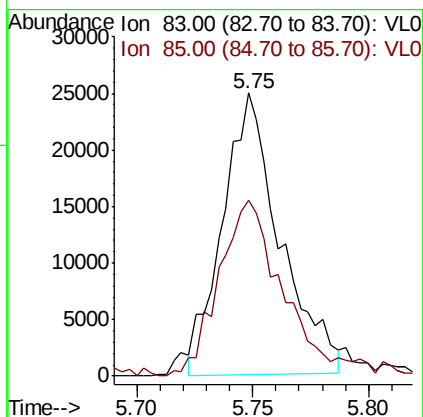
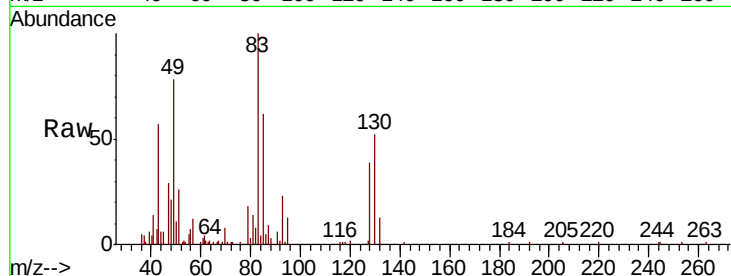
ClientSampleId :

Tot Ion: 83 Resp: 43136

Ion Ratio Lower Upper

83 100

85 60.0 51.1 76.7



#31

cis-1,2-Dichloroethene

Concen: 0.364 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.14 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

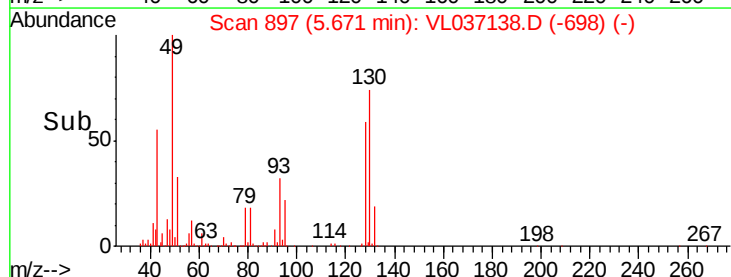
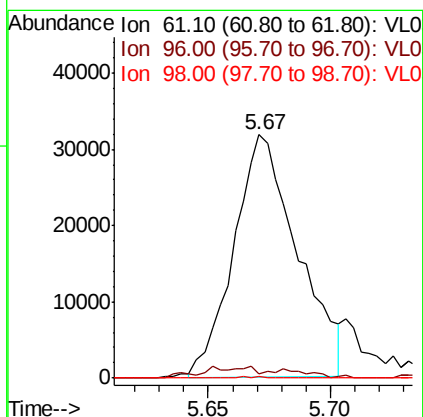
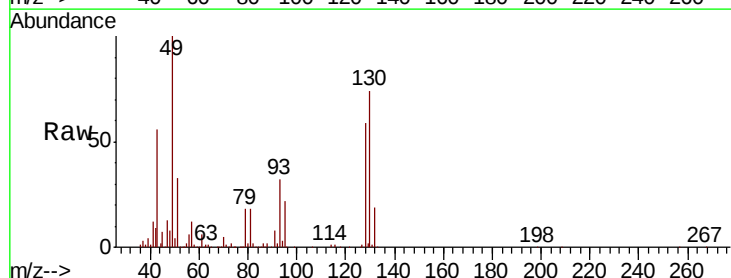
Tgt Ion: 61 Resp: 57520

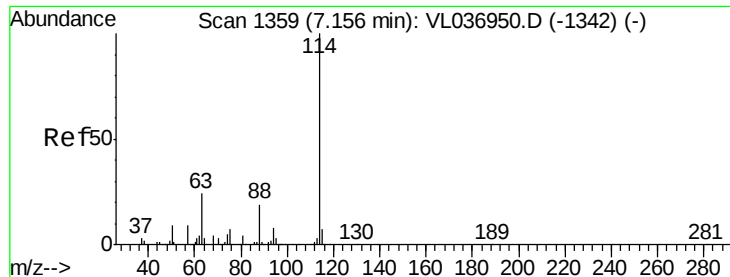
Ion Ratio Lower Upper

61 100

96 0.9 55.9 83.9#

98 0.8 35.6 53.4#

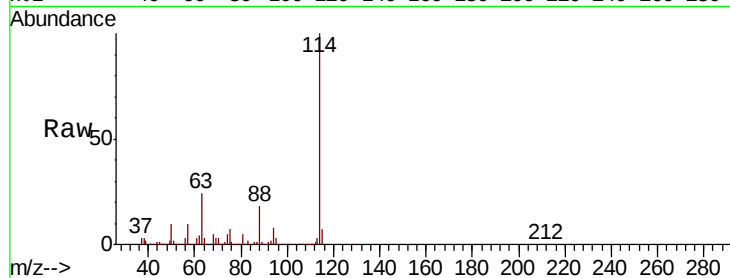




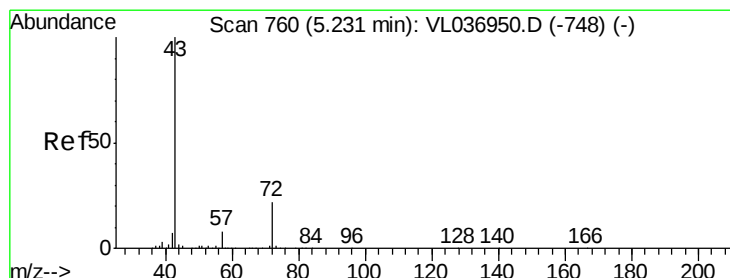
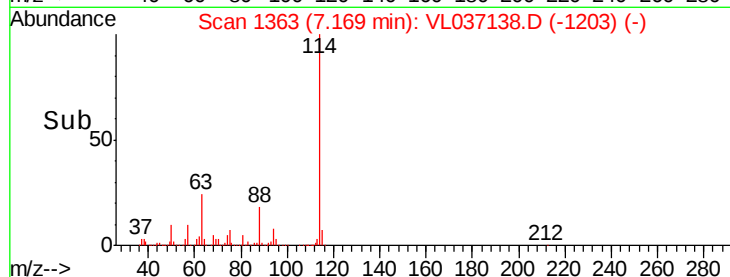
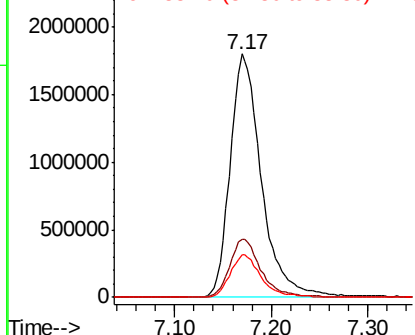
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4039330
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 17.6 14.6 21.8

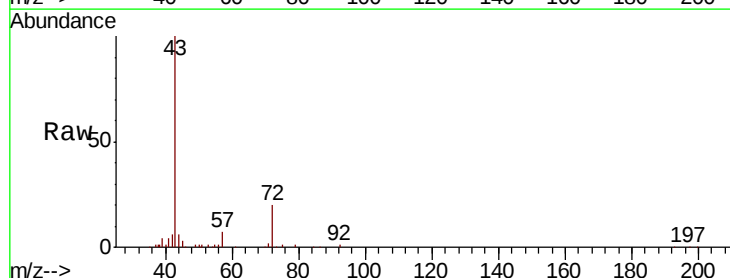


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

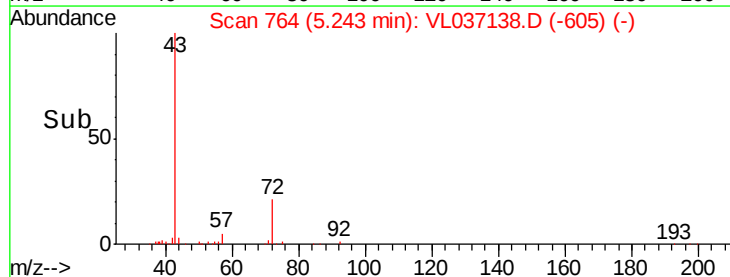
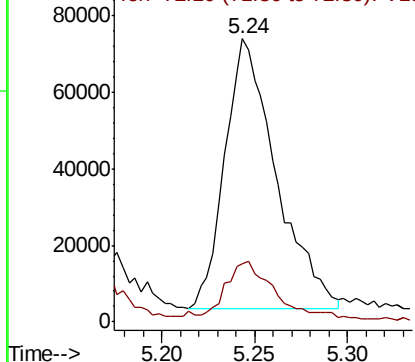


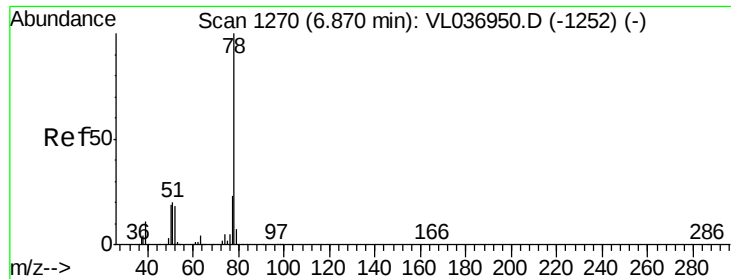
#34
 2-Butanone
 Concen: 0.923 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion: 43 Resp: 135728
 Ion Ratio Lower Upper
 43 100
 72 25.9 19.0 28.4



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



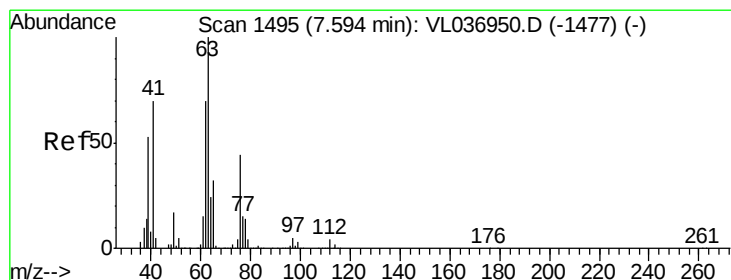
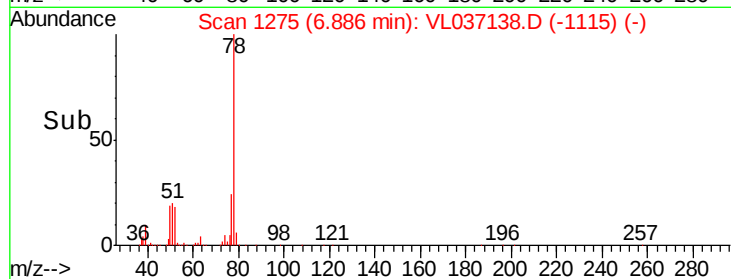
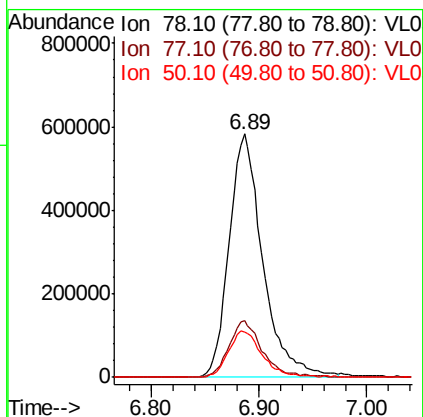
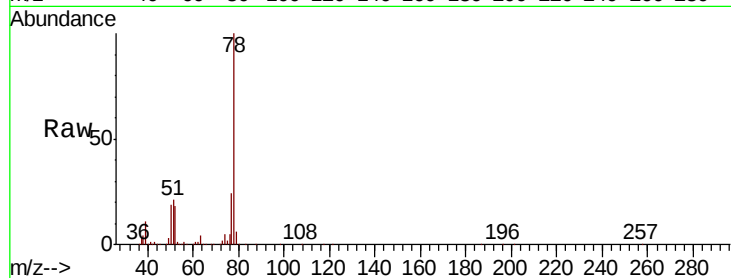


#36
Benzene
Concen: 3.654 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 1271227

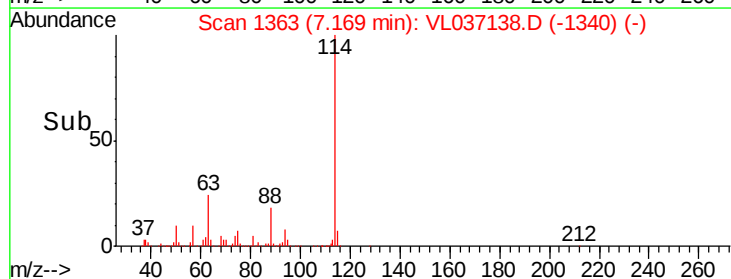
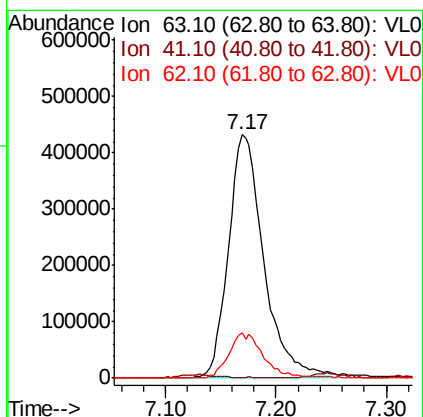
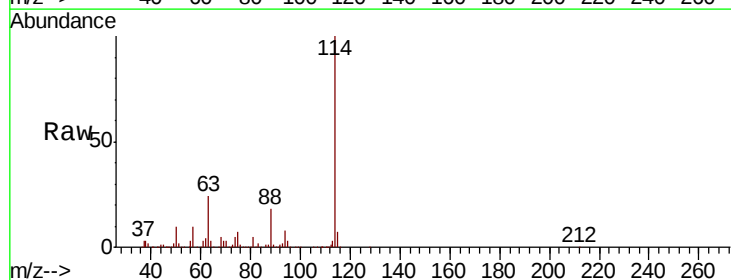
Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0
50	18.6	15.0	22.4

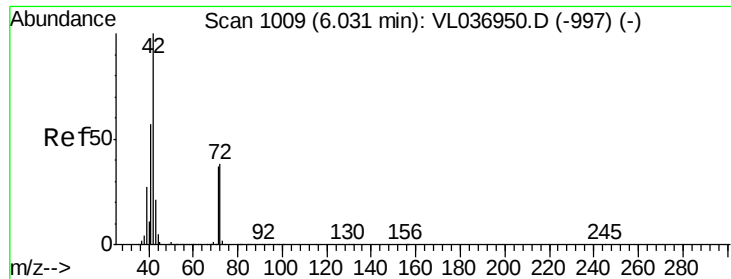


#39
1,2-Dichloropropane
Concen: 7.188 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.42 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 63 Resp: 963431

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	18.6	56.2	84.4#

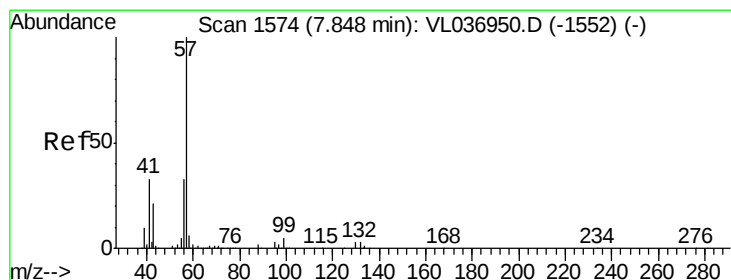
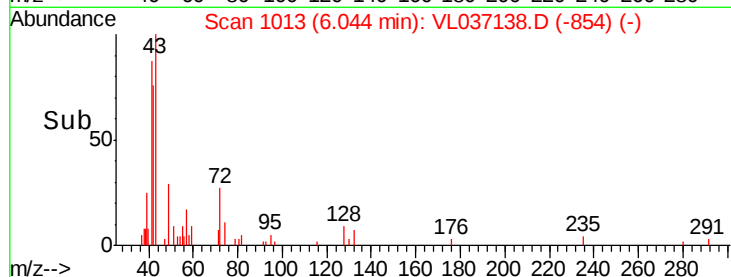
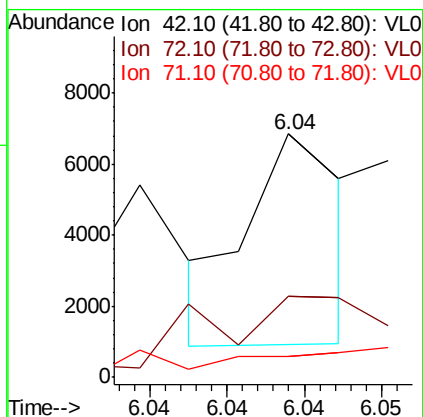
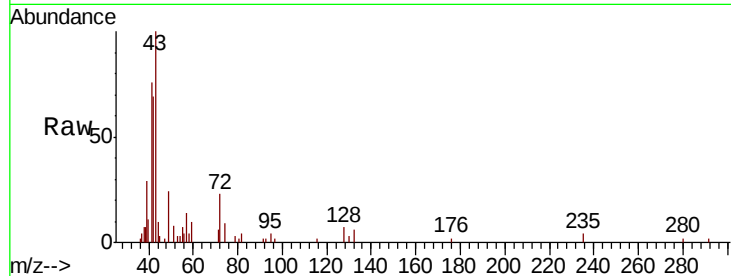




#41
Tetrahydrofuran
Concen: 0.030 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

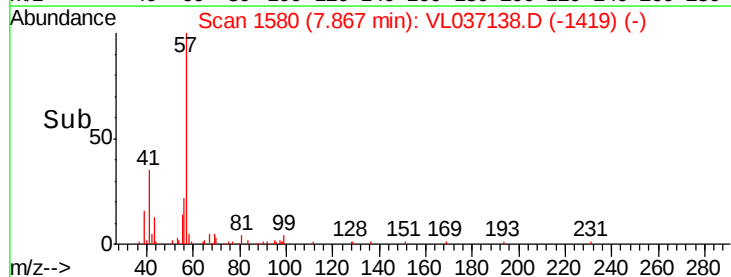
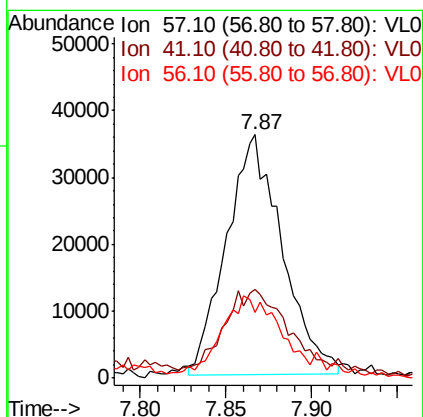
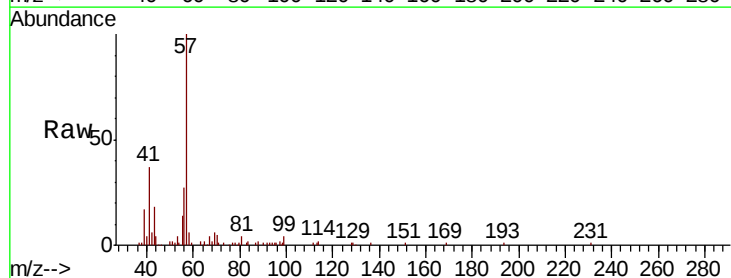
Instrument :
MSVOA_L
ClientSampleId :

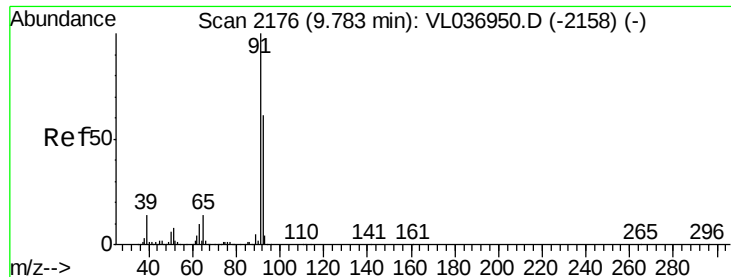
Tot Ion: 42 Resp: 2552
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.2#
71 0.0 30.4 45.6#



#44
2,2,4-Trimethylpentane
Concen: 0.136 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 57 Resp: 80906
Ion Ratio Lower Upper
57 100
41 49.0 27.0 40.4#
56 41.3 25.4 38.2#





#53

Toluene

Concen: 1.384 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

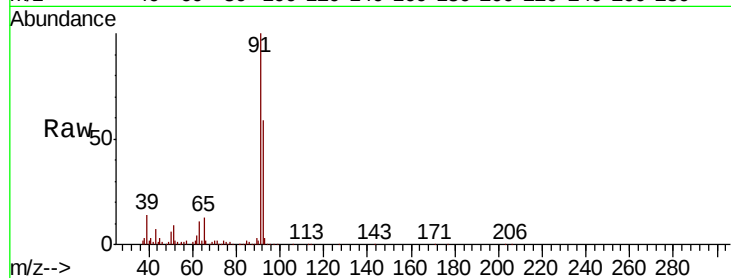
ClientSampled :

Tot Ion: 91 Resp: 573059

Ion Ratio Lower Upper

91 100

92 60.6 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.80

250000

200000

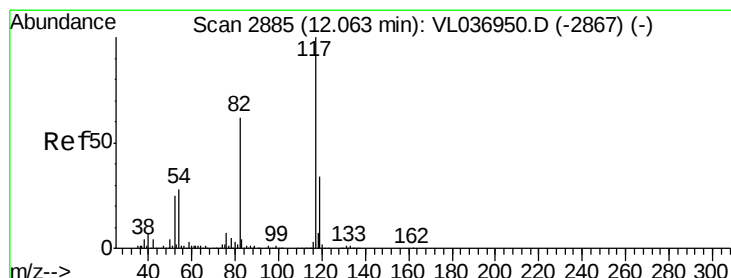
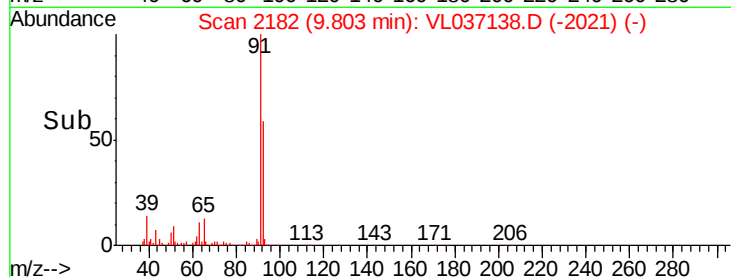
150000

100000

50000

0

Time--> 9.70 9.75 9.80 9.85 9.90



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.02 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

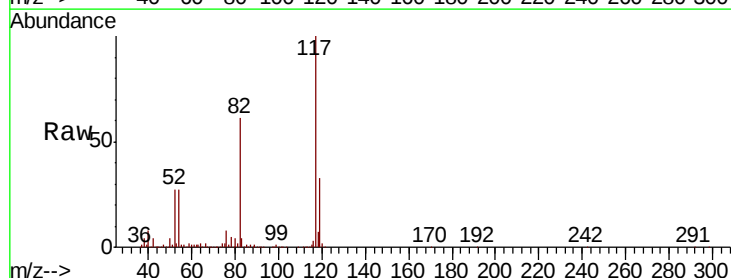
Tgt Ion: 117 Resp: 3641624

Ion Ratio Lower Upper

117 100

82 63.9 52.6 79.0

119 33.8 46.6 70.0#



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

12.08

2000000

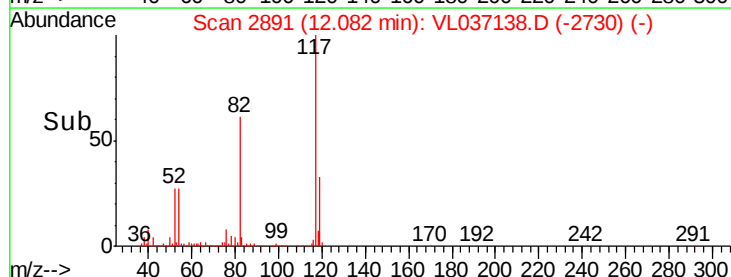
1500000

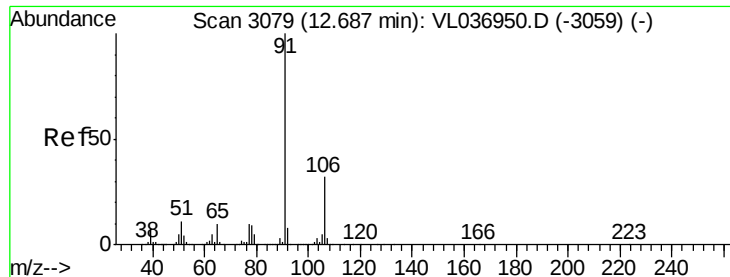
1000000

500000

0

Time--> 12.00 12.10 12.20





#58

Ethyl Benzene

Concen: 0.109 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. 0.03 min

Lab File: VL037138.D

Acq: 8 Jun 2021 18:59

Instrument :

MSVOA_L

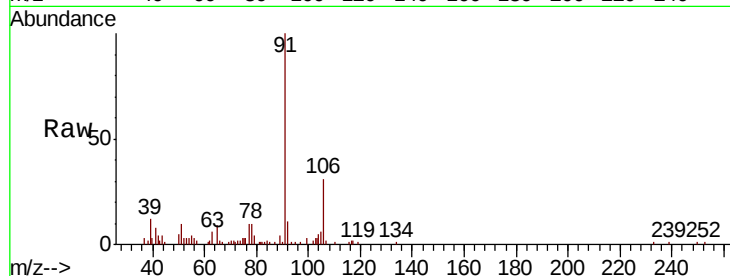
ClientSampleId :

Tot Ion: 91 Resp: 56168

Ion Ratio Lower Upper

91 100

106 30.9 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

30000

25000

20000

15000

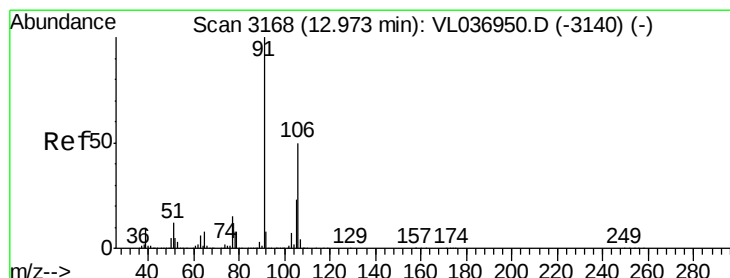
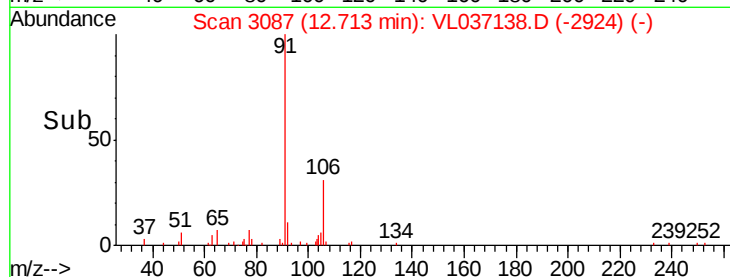
10000

5000

0

12.65 12.70 12.75

Time-->



#59

m/p-Xylene

Concen: 0.105 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. 0.01 min

Lab File: VL037138.D

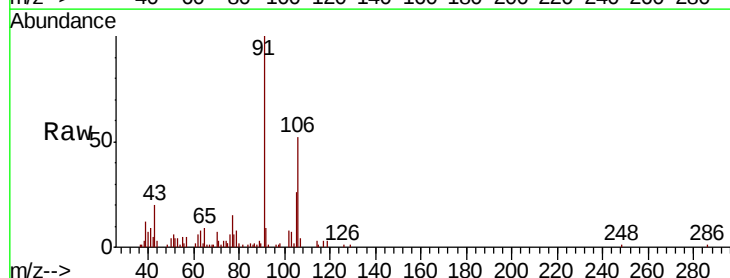
Acq: 8 Jun 2021 18:59

Tgt Ion: 91 Resp: 44627

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

50000

40000

30000

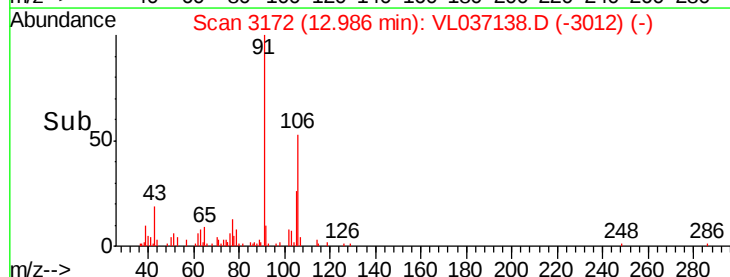
20000

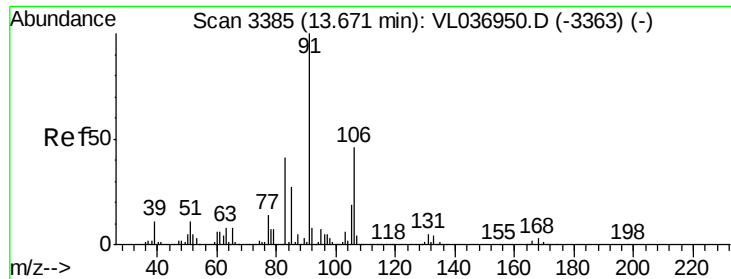
10000

0

13.00

Time-->

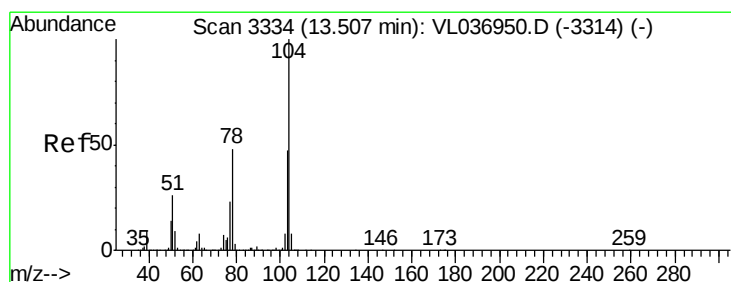
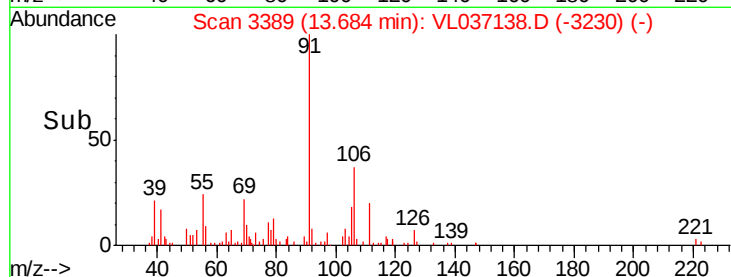
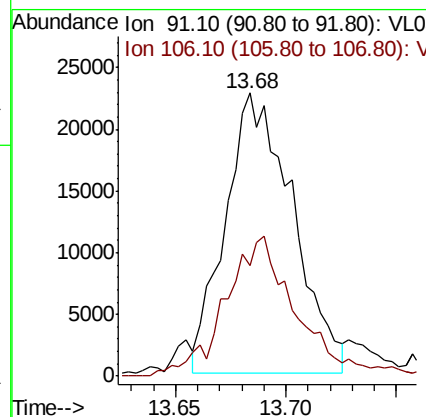
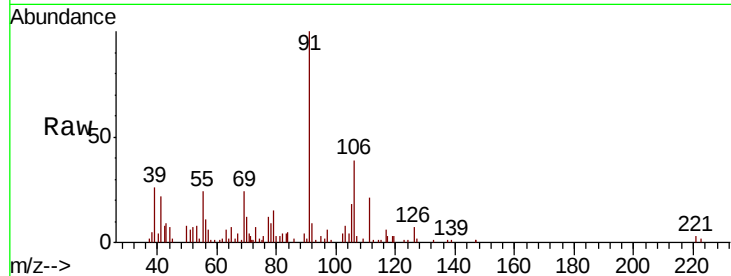




#60
o-Xylene
Concen: 0.118 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. 0.01 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

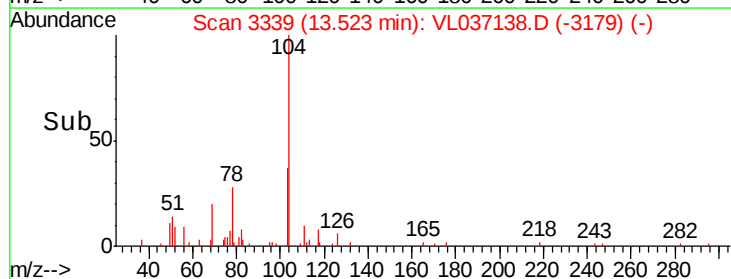
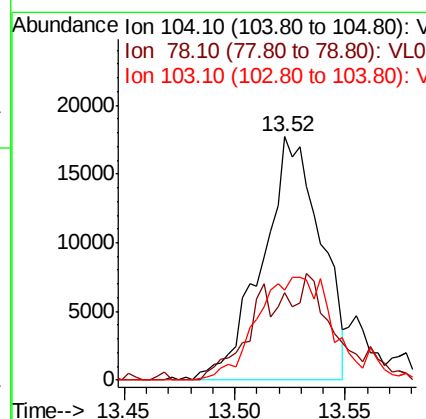
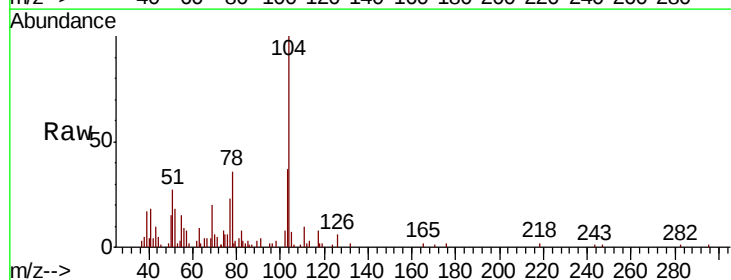
Instrument :
MSVOA_L
ClientSampled :

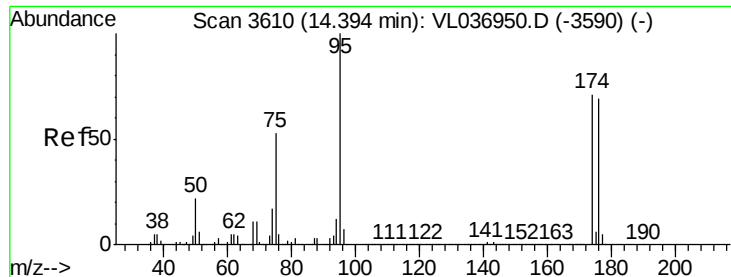
Tot Ion: 91 Resp: 47933
Ion Ratio Lower Upper
91 100
106 54.0 23.4 70.3



#61
Styrene
Concen: 0.142 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. 0.02 min
Lab File: VL037138.D
Acq: 8 Jun 2021 18:59

Tgt Ion: 104 Resp: 32525
Ion Ratio Lower Upper
104 100
78 58.7 39.0 58.6#
103 57.0 38.0 57.0#



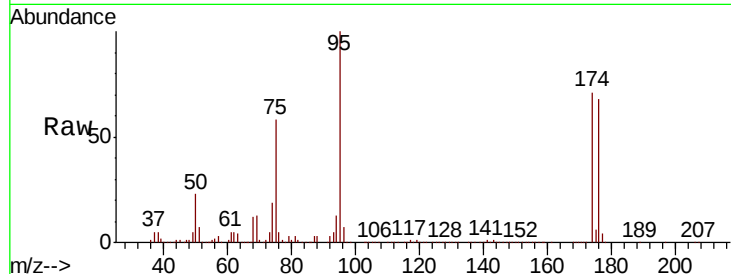


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.029 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. 0.02 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

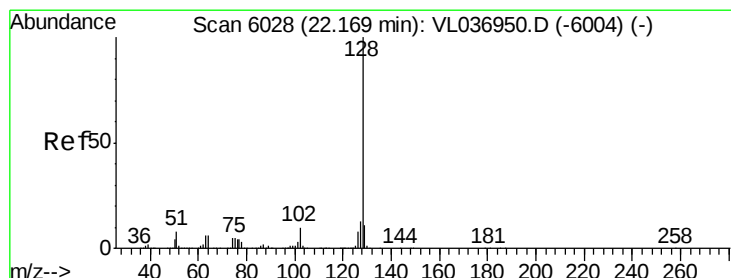
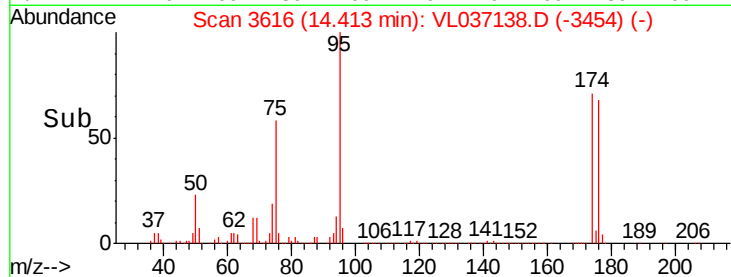
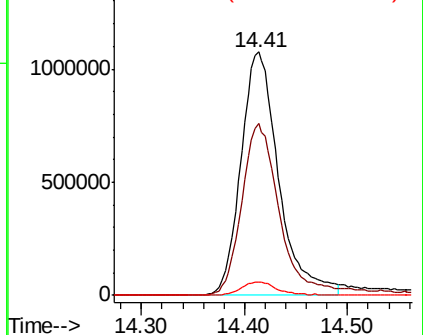
Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2743677

Ion	Ratio	Lower	Upper
95	100		
174	74.2	58.4	87.6
175	5.5	4.4	6.6



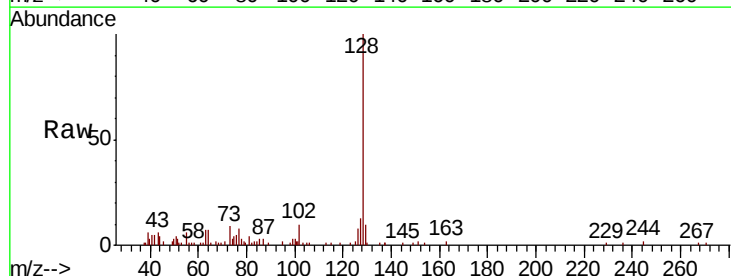
Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#79
 Naphthalene
 Concen: 0.145 ppbv
 RT: 22.20 min Scan# 6039
 Delta R.T. 0.04 min
 Lab File: VL037138.D
 Acq: 8 Jun 2021 18:59

Tgt Ion:128 Resp: 52949

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	8.3	9.0	13.6#



Abundance Ion 128.10 (127.80 to 128.80): V
 Ion 127.10 (126.80 to 127.80): V
 Ion 129.10 (128.80 to 129.80): V

