

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL080421\
 Data File : VL037334.D
 Acq On : 5 Aug 2021 8:36
 Operator : SY/AP
 Sample : M3211-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Aug 05 09:06:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Aug 04 22:53:01 2021
 QLast Update : Wed Aug 04 22:53:01 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1045799	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3462958	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2961936	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2118425	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

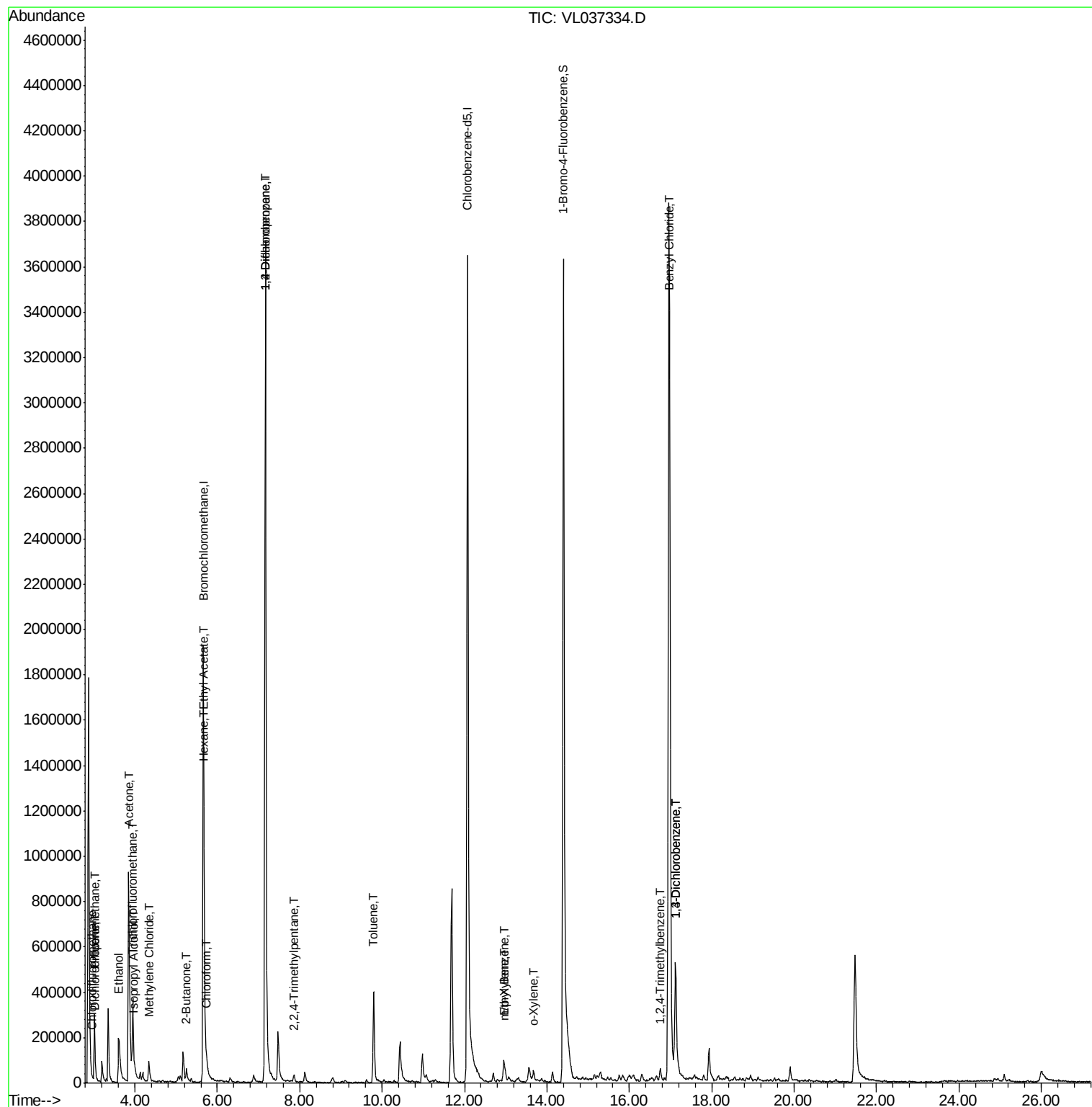
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	7393	0.035	ppbv #	86
3) Chlorodifluoromethane	2.96	51	18726	0.088	ppbv #	78
9) Propene	3.02	41	75076	0.976	ppbv #	67
11) Trichlorofluoromethane	3.94	101	243148	1.245	ppbv	96
13) Ethanol	3.61	45	332874	28.744	ppbv	98
15) Acetone	3.85	43	1382575	12.171	ppbv	98
19) Isopropyl Alcohol	3.98	45	55889	0.889	ppbv #	1
20) Methylene Chloride	4.34	84	35262	0.375	ppbv #	87
25) Ethyl Acetate	5.68	43	28615	0.097	ppbv #	91
26) Hexane	5.68	57	30495	0.184	ppbv #	64
29) Chloroform	5.74	83	10563	0.050	ppbv	88
34) 2-Butanone	5.25	43	63931	0.532	ppbv #	67
39) 1,2-Dichloropropane	7.17	63	760962	6.557	ppbv #	29
44) 2,2,4-Trimethylpentane	7.87	57	26887	0.052	ppbv #	73
53) Toluene	9.80	91	358829	0.975	ppbv	99
58) Ethyl Benzene	12.95	91	61805	0.142	ppbv	95
59) m/p-Xylene	12.98	91	11048	0.030	ppbv #	29
60) o-Xylene	13.68	91	30444	0.091	ppbv	95
66) Benzyl Chloride	16.98	91	690	0.040	ppbv #	60
74) 1,2,4-Trimethylbenzene	16.75	105	20588	0.053	ppbv #	56
75) 1,3-Dichlorobenzene	17.12	146	277149	1.169	ppbv	92
76) 1,4-Dichlorobenzene	17.12	146	277149	1.178	ppbv	93

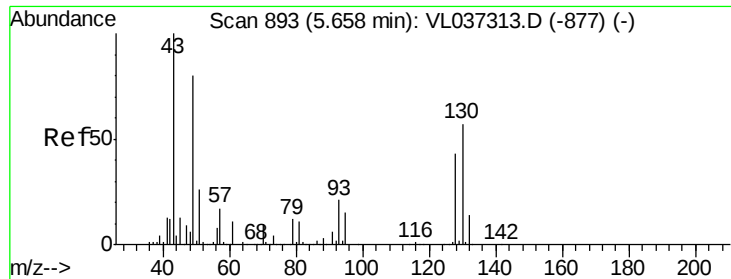
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 04 22:53:01 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

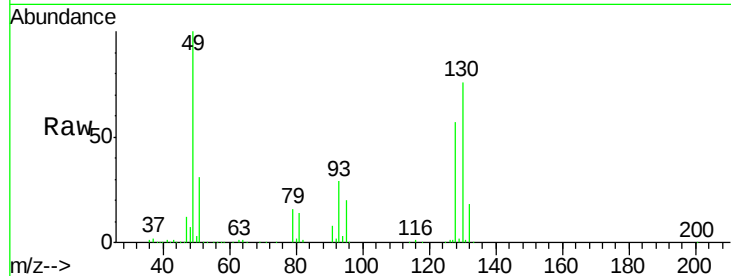
Tgt Ion: 49 Resp: 1045799

Ion Ratio Lower Upper

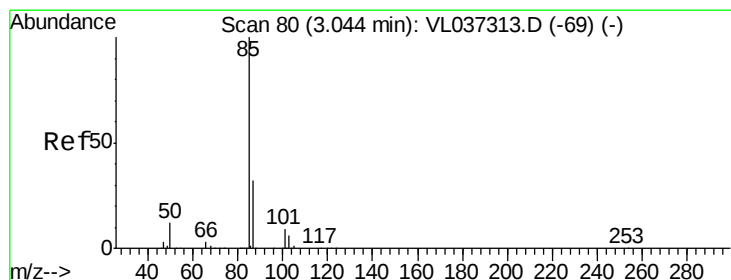
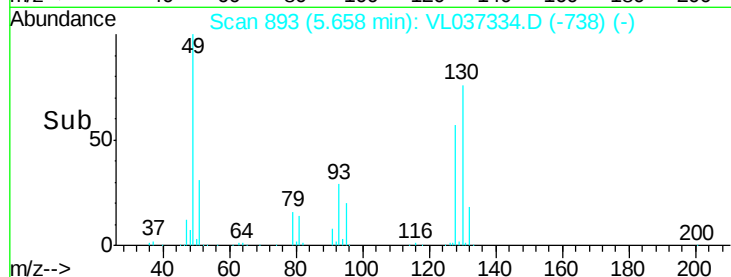
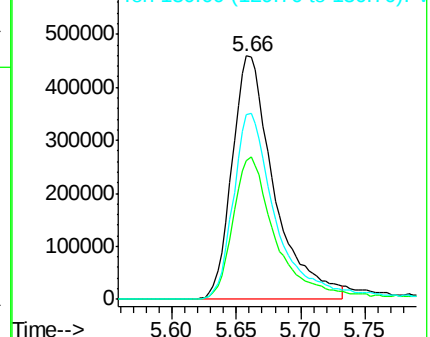
49 100

128 62.0 29.8 89.5

130 80.4 37.5 112.7



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



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL037334.D

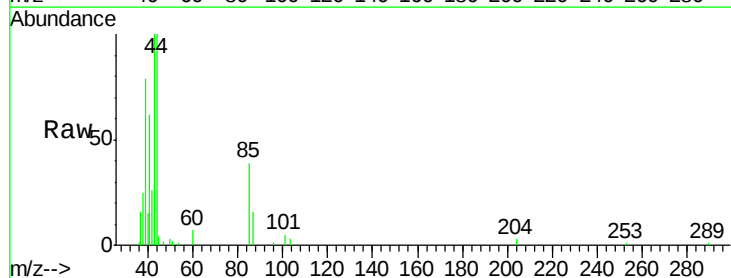
Acq: 5 Aug 2021 8:36

Tgt Ion: 85 Resp: 7393

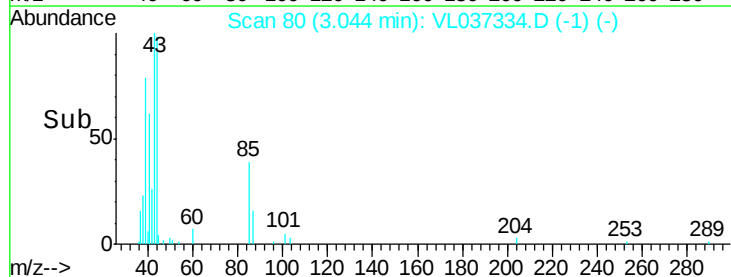
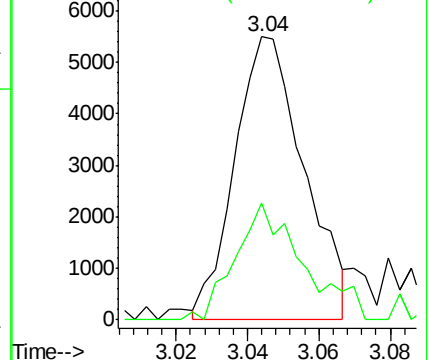
Ion Ratio Lower Upper

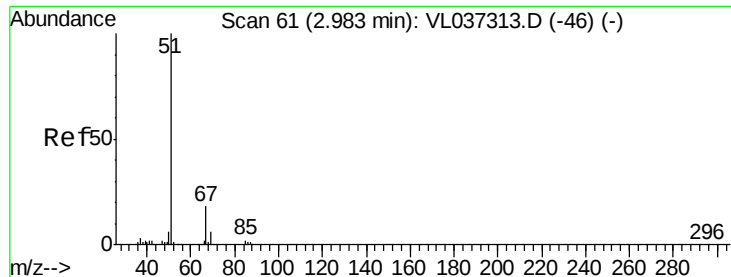
85 100

87 39.6 25.5 38.3#



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





#3

Chlorodifluoromethane

Concen: 0.088 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.03 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

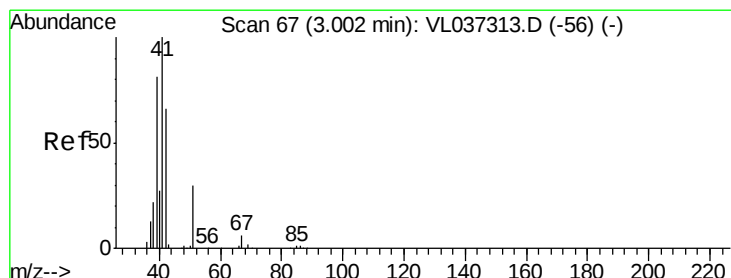
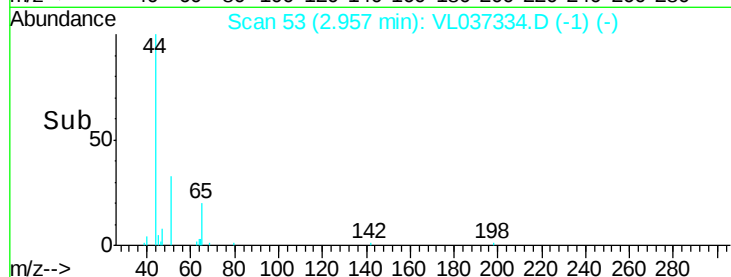
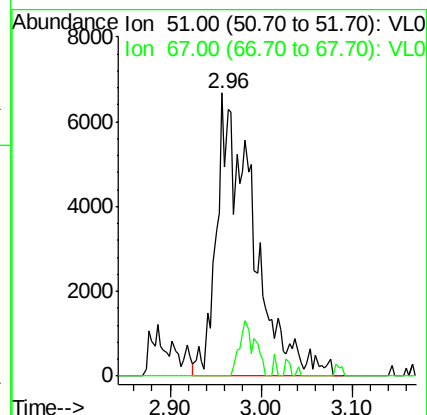
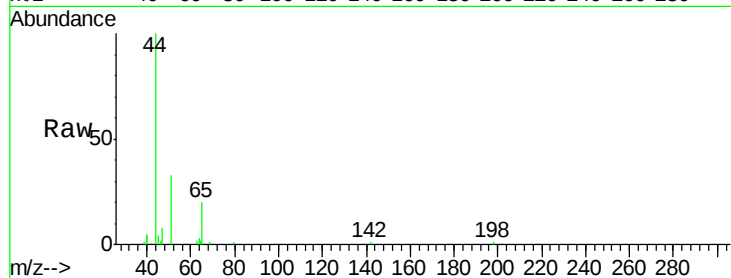
IA-1DL

Tgt Ion: 51 Resp: 18726

Ion Ratio Lower Upper

51 100

67 8.2 14.2 21.2#



#9

Propene

Concen: 0.976 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037334.D

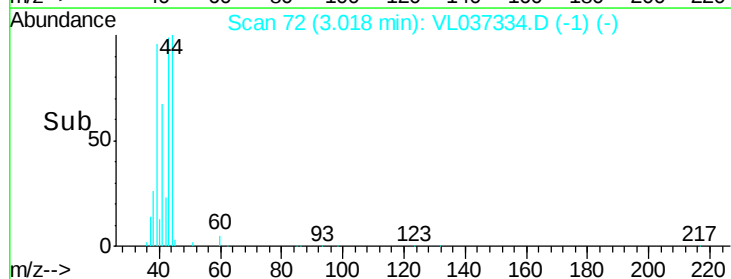
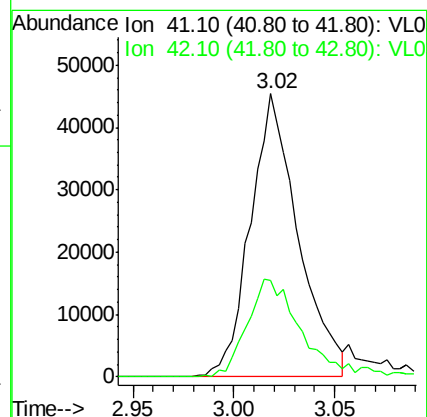
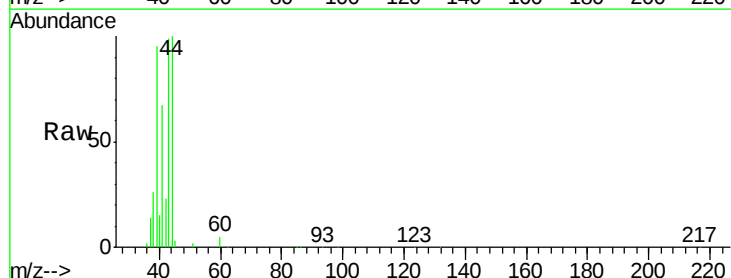
Acq: 5 Aug 2021 8:36

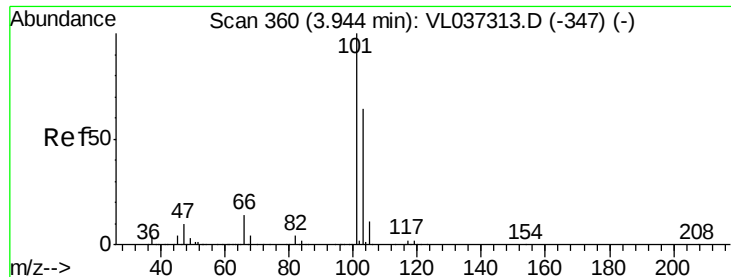
Tgt Ion: 41 Resp: 75076

Ion Ratio Lower Upper

41 100

42 40.8 53.8 80.8#

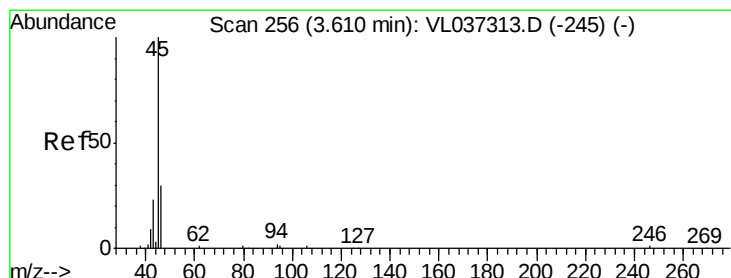
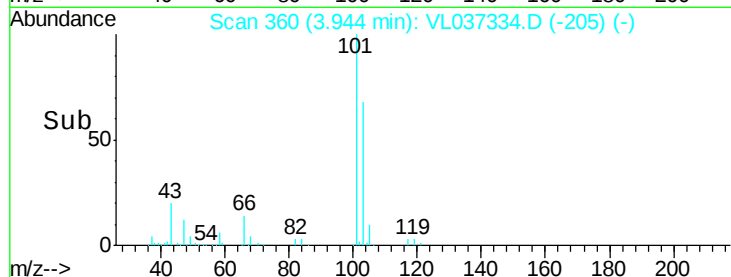
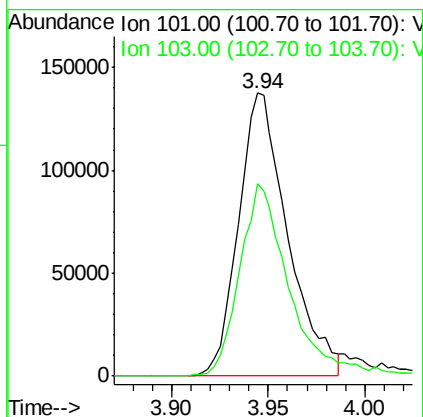
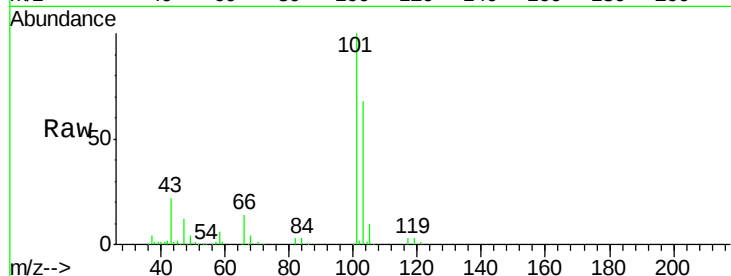




#11
 Trichlorofluoromethane
 Concen: 1.245 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

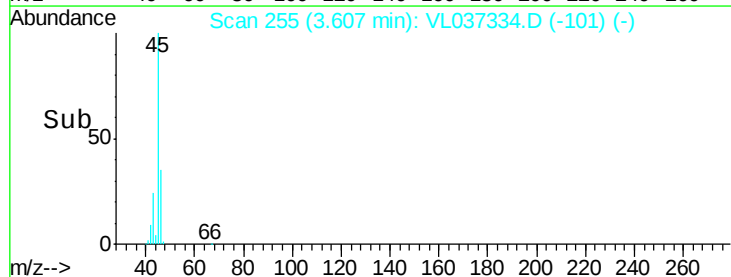
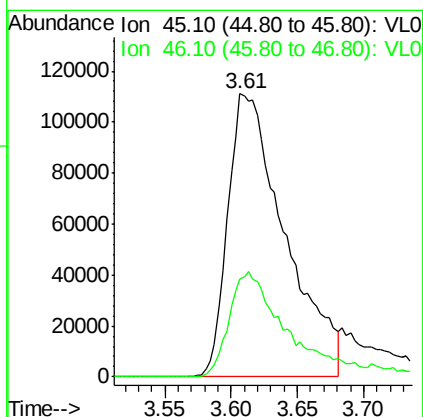
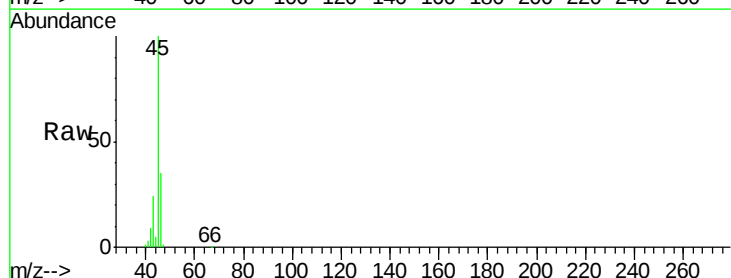
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

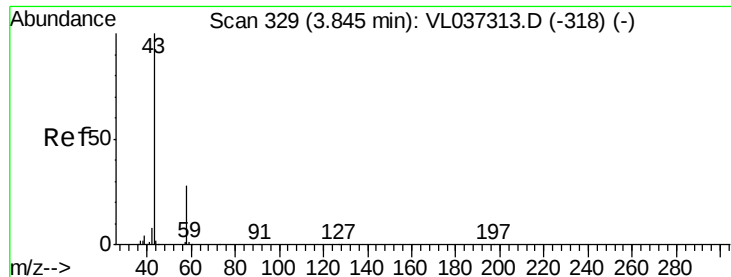
Tgt Ion: 101 Resp: 243148
 Ion Ratio Lower Upper
 101 100
 103 67.9 51.6 77.4



#13
 Ethanol
 Concen: 28.744 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

Tgt Ion: 45 Resp: 332874
 Ion Ratio Lower Upper
 45 100
 46 40.4 16.6 66.4





#15

Acetone

Concen: 12.171 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

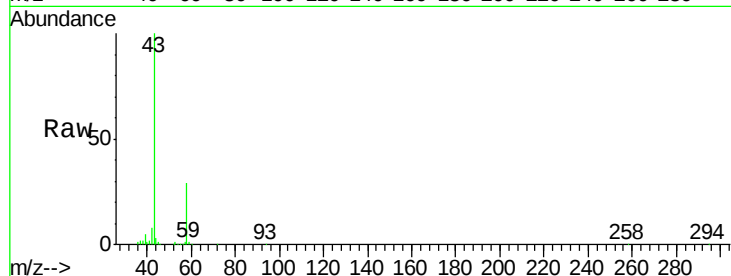
IA-1DL

Tgt Ion: 43 Resp: 1382575

Ion Ratio Lower Upper

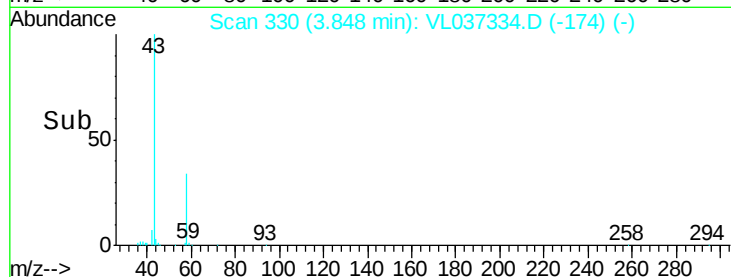
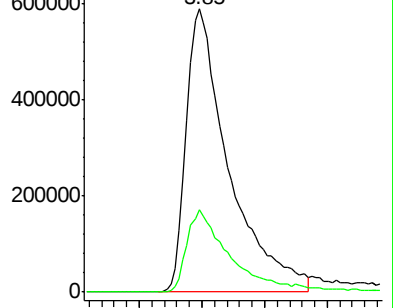
43 100

58 30.7 25.3 37.9

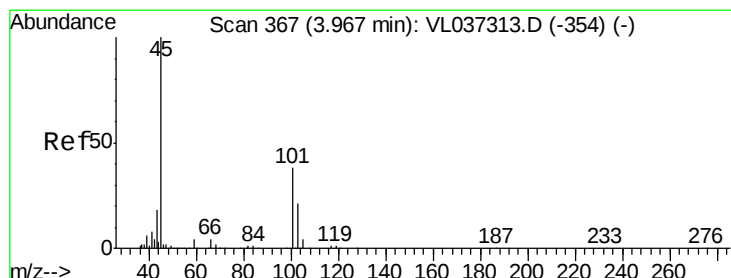


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#19

Isopropyl Alcohol

Concen: 0.889 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL037334.D

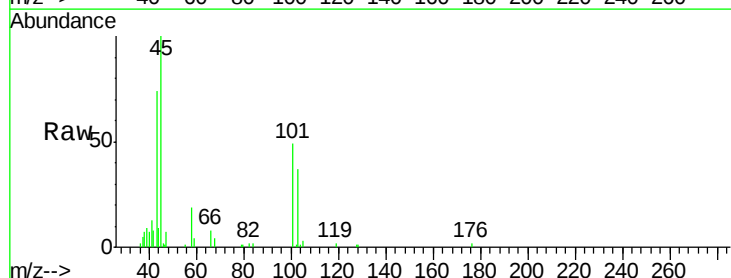
Acq: 5 Aug 2021 8:36

Tgt Ion: 45 Resp: 55889

Ion Ratio Lower Upper

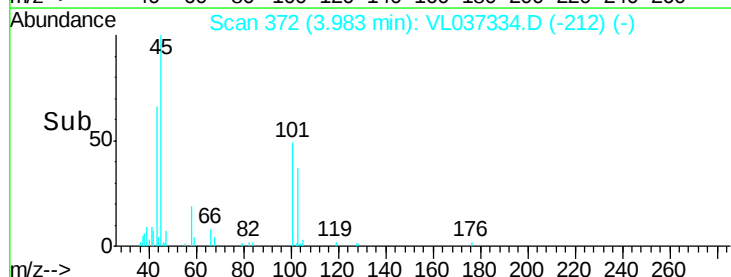
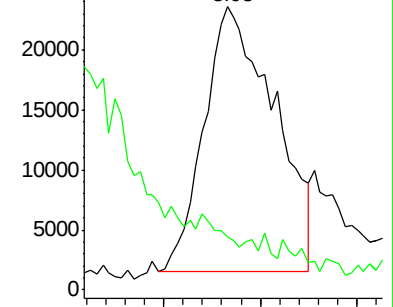
45 100

58 775.6 1.8 2.8#

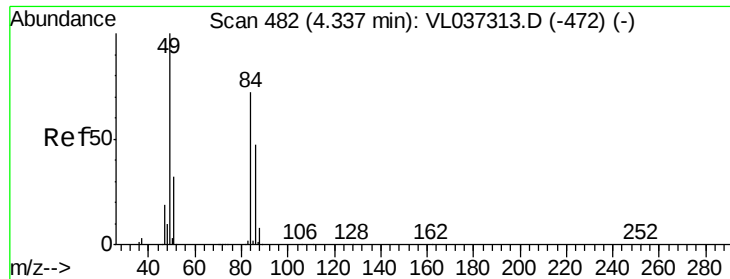


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



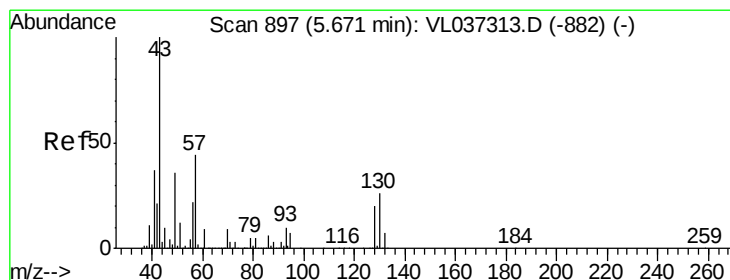
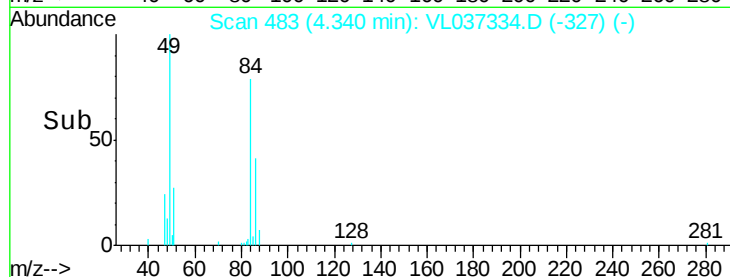
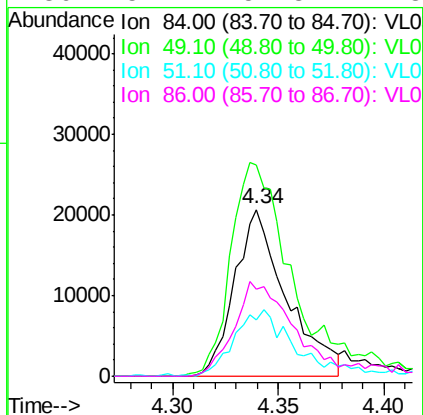
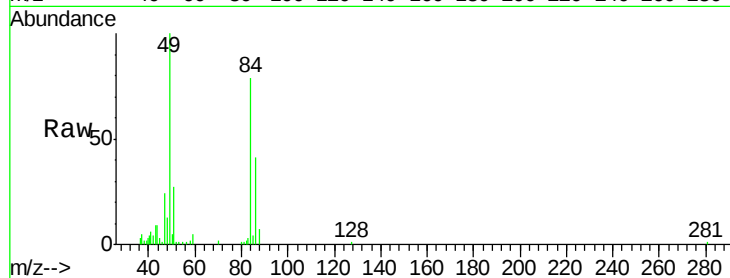
Time-->



#20
Methylene Chloride
Concen: 0.375 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL037334.D
Acq: 5 Aug 2021 8:36

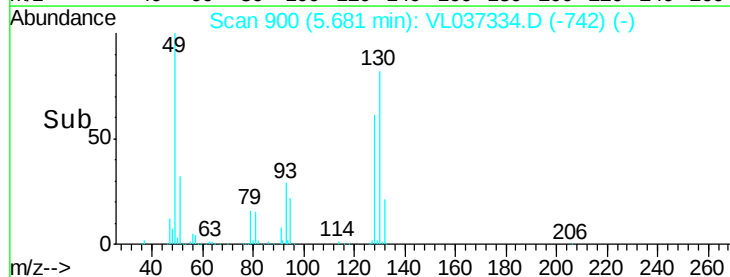
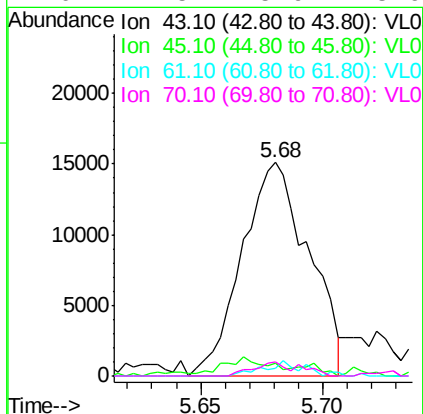
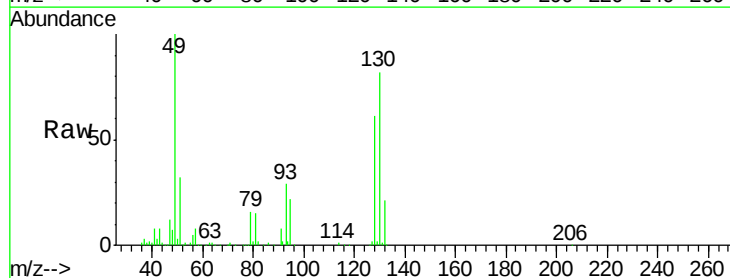
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

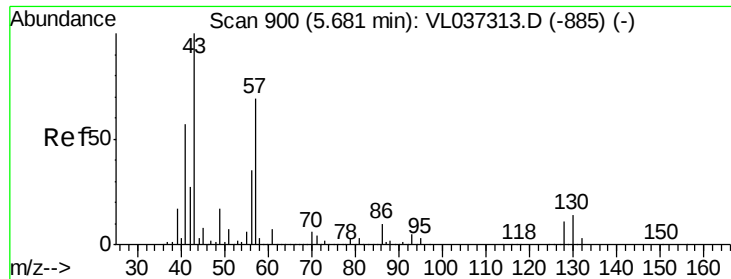
Tgt Ion:	84	Resp:	35262
Ion	Ratio	Lower	Upper
84	100		
49	125.2	110.4	165.6
51	33.1	35.8	53.6#
86	52.4	51.8	77.8



#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037334.D
Acq: 5 Aug 2021 8:36

Tgt Ion:	43	Resp:	28615
Ion	Ratio	Lower	Upper
43	100		
45	10.5	7.8	11.8
61	4.4	8.6	12.8#
70	4.5	5.9	8.9#





#26

Hexane

Concen: 0.184 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tgt Ion: 57 Resp: 30495

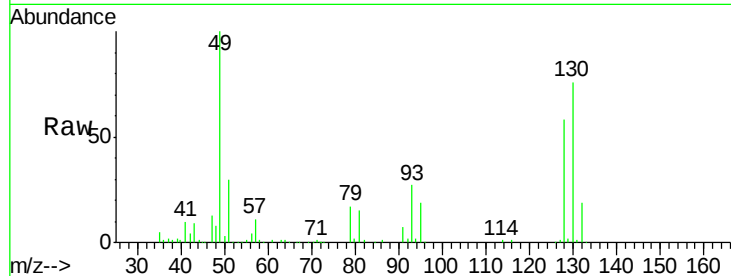
Ion Ratio Lower Upper

57 100

41 97.6 67.5 101.3

43 123.2 163.0 244.4#

56 56.2 41.5 62.3

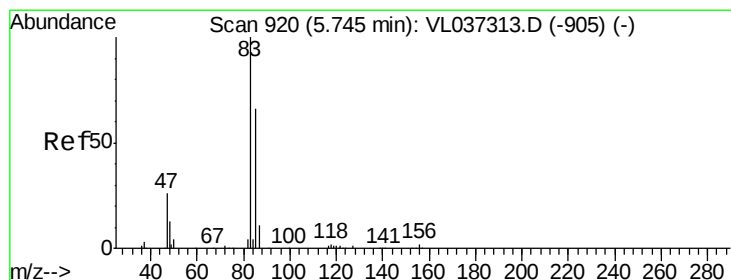
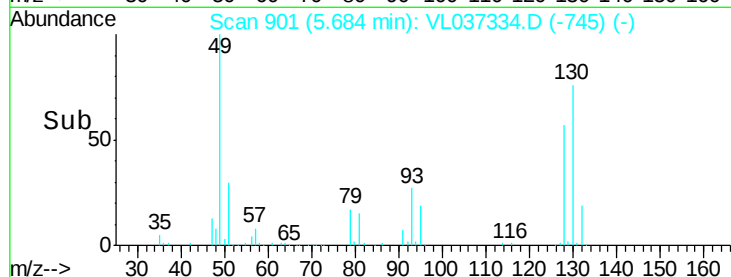
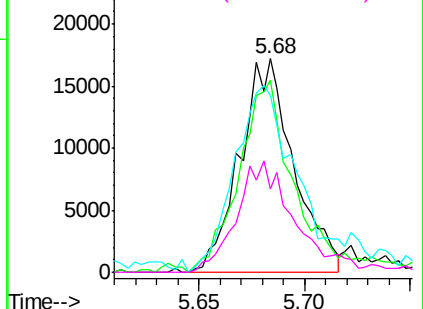


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.050 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL037334.D

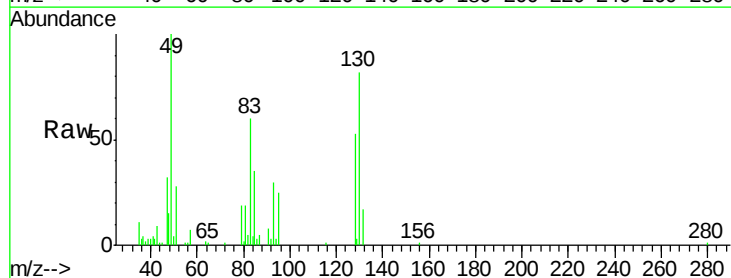
Acq: 5 Aug 2021 8:36

Tgt Ion: 83 Resp: 10563

Ion Ratio Lower Upper

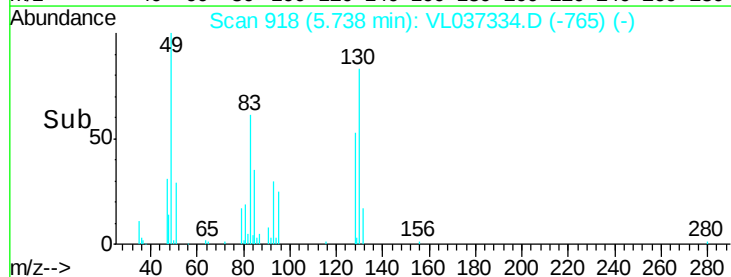
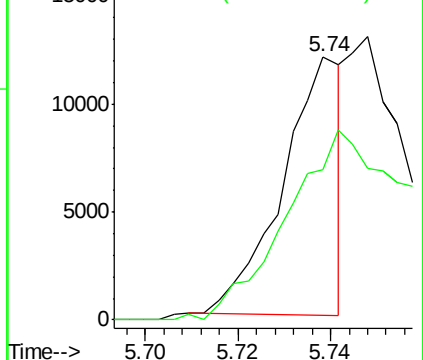
83 100

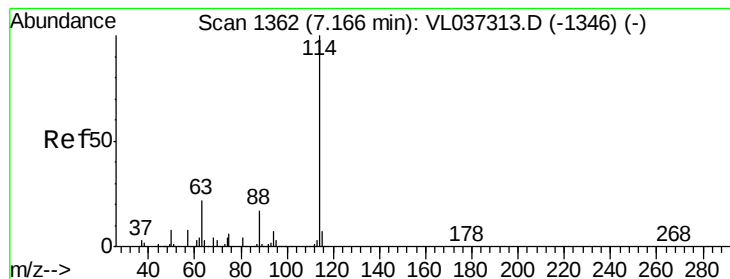
85 56.6 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

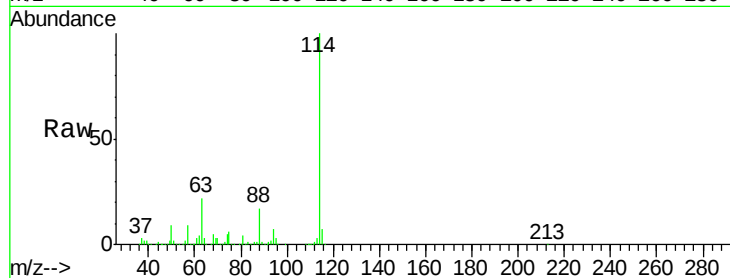
Tgt Ion:114 Resp: 3462958

Ion Ratio Lower Upper

114 100

63 22.7 18.1 27.1

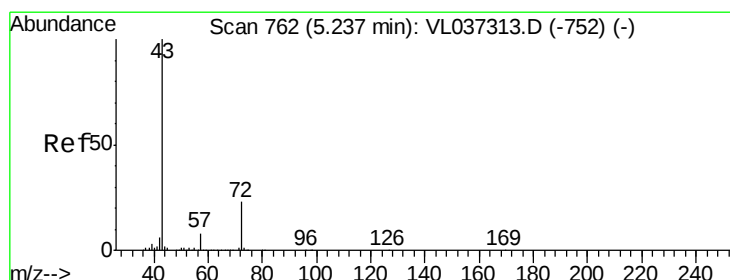
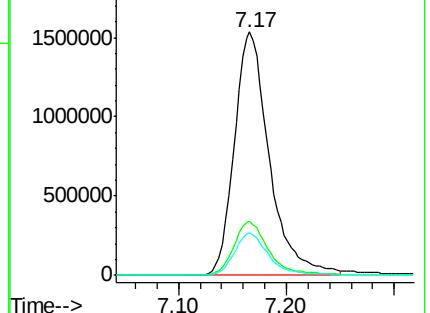
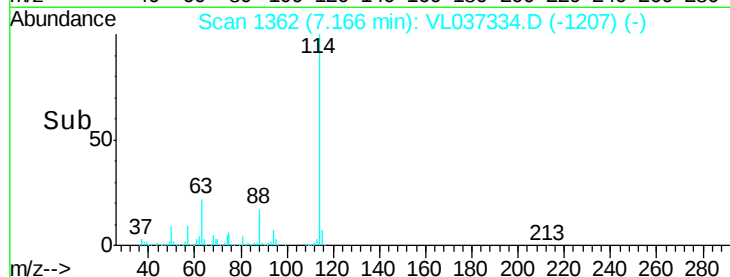
88 17.4 13.8 20.8



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: 0.532 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL037334.D

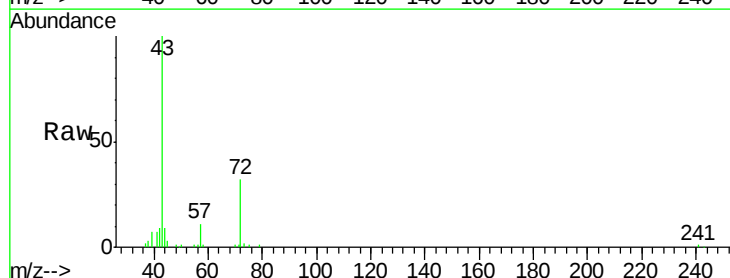
Acq: 5 Aug 2021 8:36

Tgt Ion: 43 Resp: 63931

Ion Ratio Lower Upper

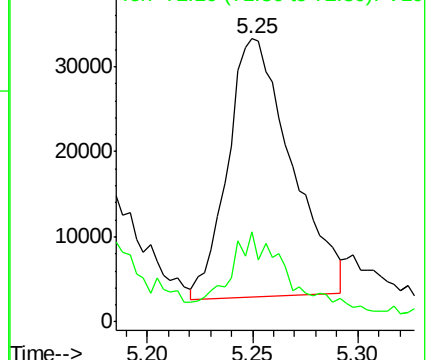
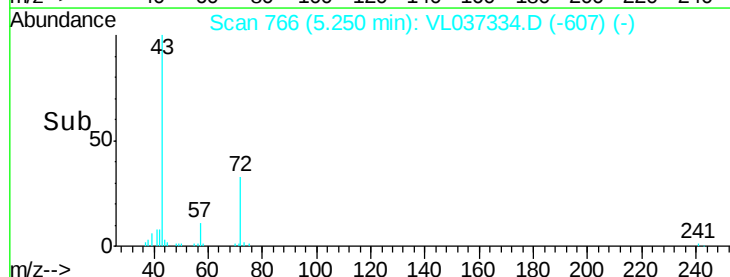
43 100

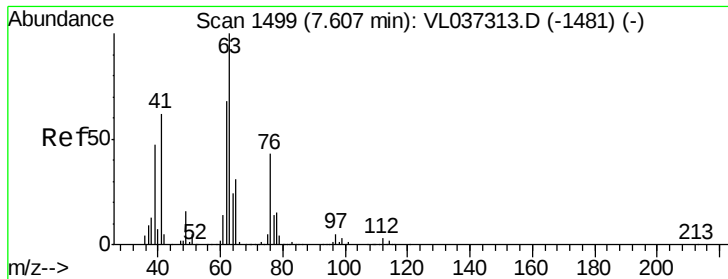
72 42.1 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

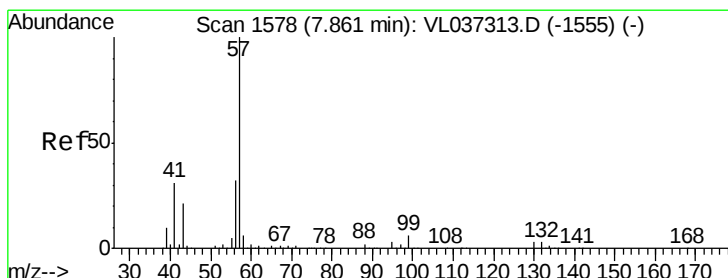
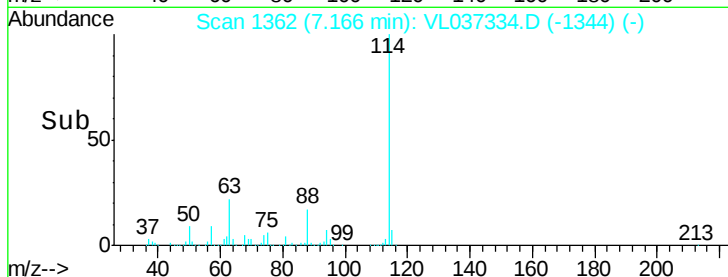
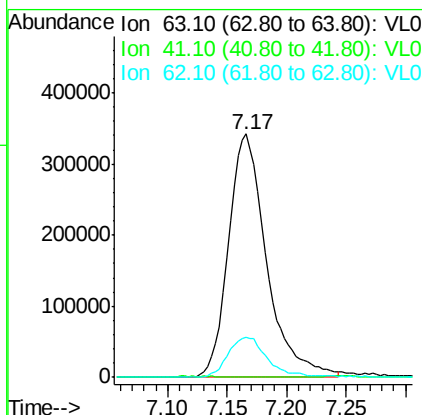
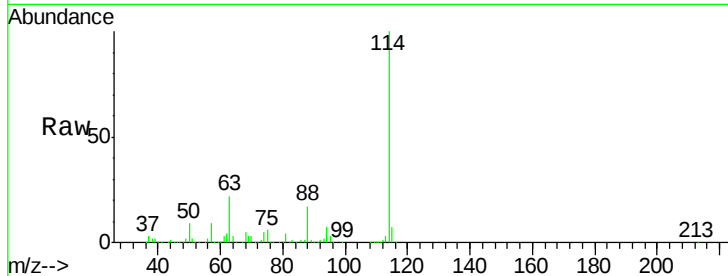




#39
 1,2-Dichloropropane
 Concen: 6.557 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.44 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

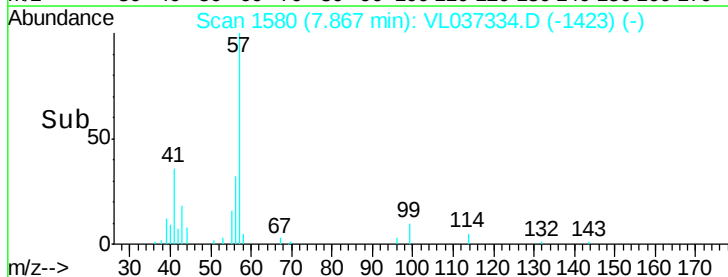
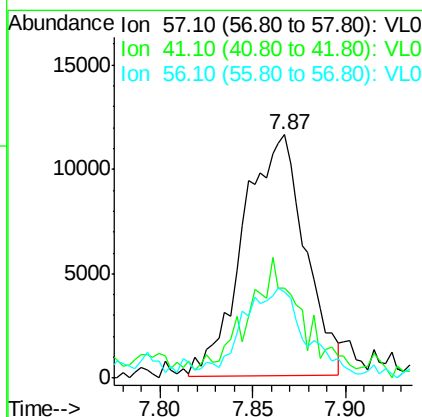
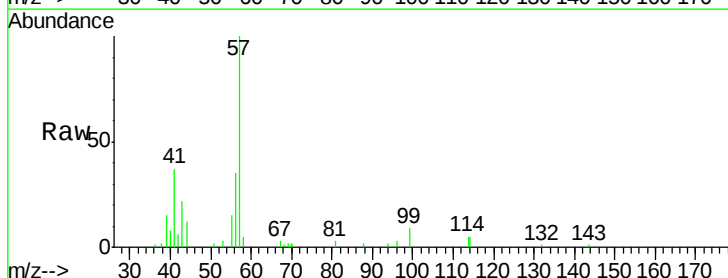
Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1DL

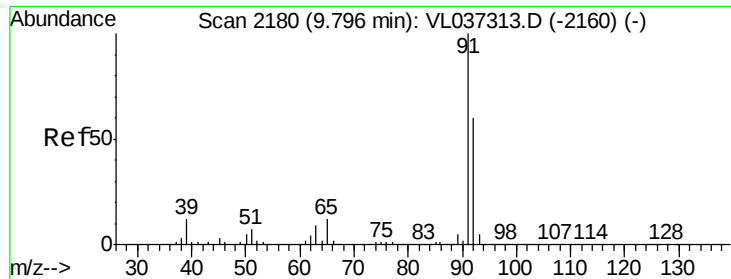
Tgt Ion: 63 Resp: 760962
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.2 73.8#
 62 16.7 54.2 81.4#



#44
 2,2,4-Trimethylpentane
 Concen: 0.052 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

Tgt Ion: 57 Resp: 26887
 Ion Ratio Lower Upper
 57 100
 41 51.5 24.3 36.5#
 56 40.0 25.0 37.6#





#53

Toluene

Concen: 0.975 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

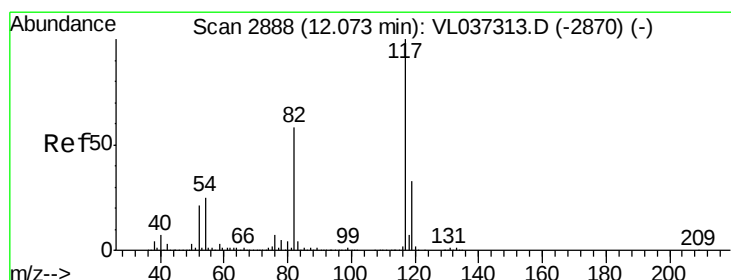
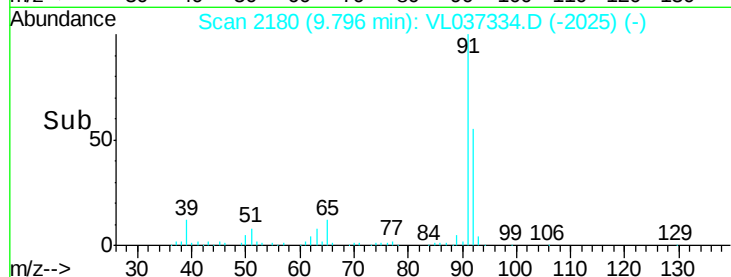
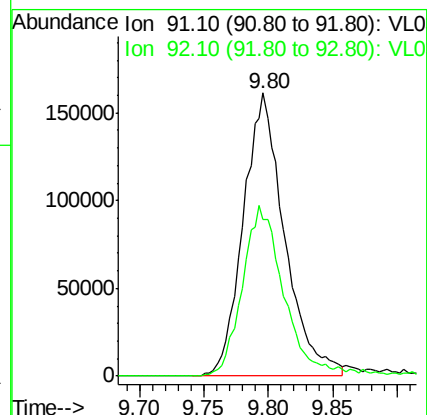
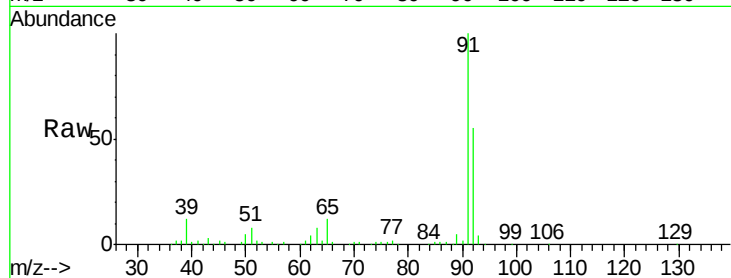
IA-1DL

Tgt Ion: 91 Resp: 358829

Ion Ratio Lower Upper

91 100

92 61.4 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

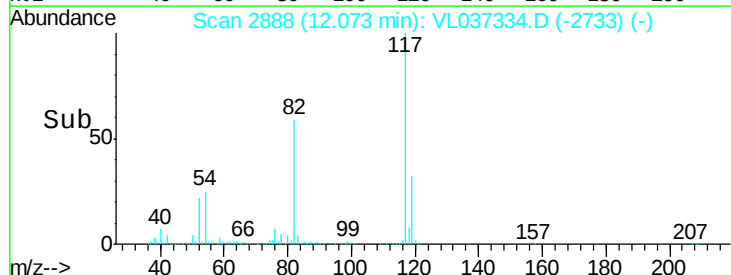
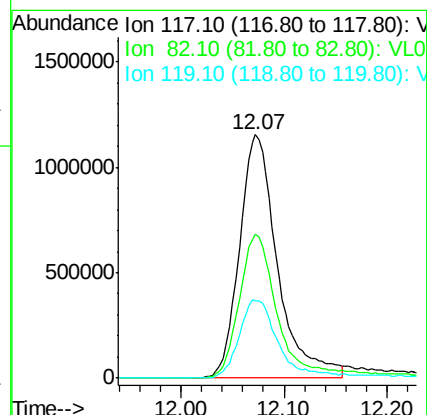
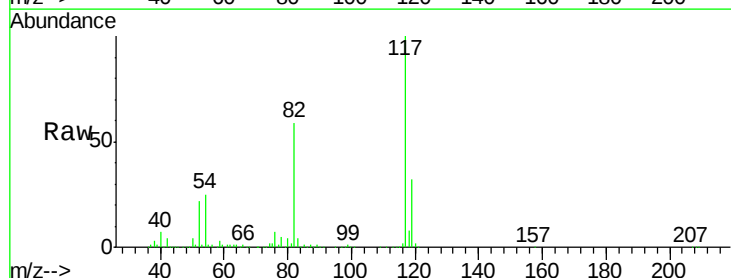
Tgt Ion: 117 Resp: 2961936

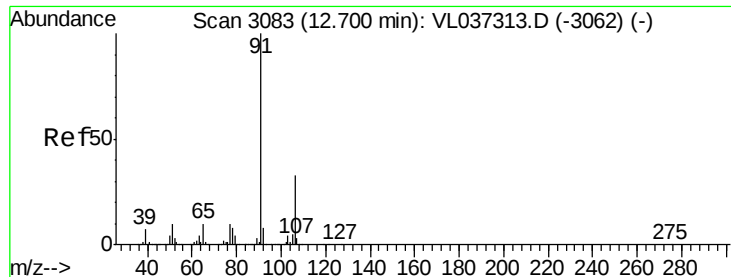
Ion Ratio Lower Upper

117 100

82 64.6 50.3 75.5

119 35.7 48.2 72.2#





#58

Ethyl Benzene

Concen: 0.142 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. 0.25 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

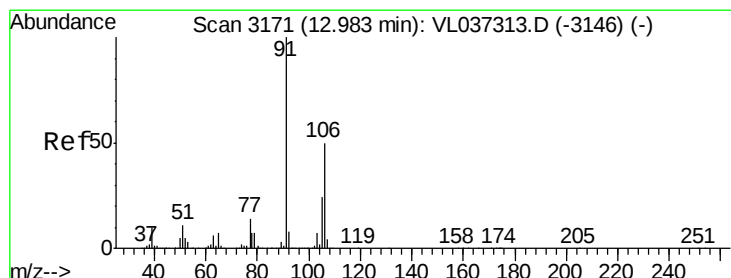
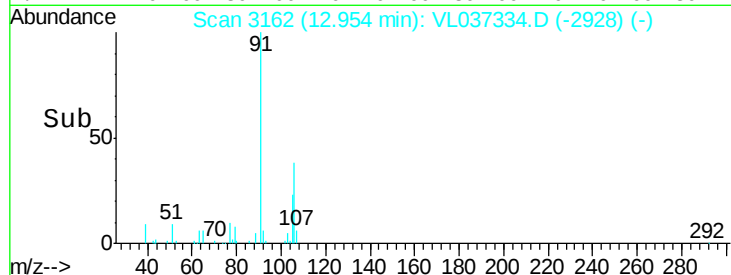
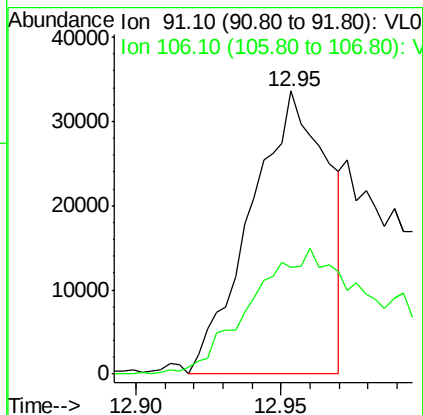
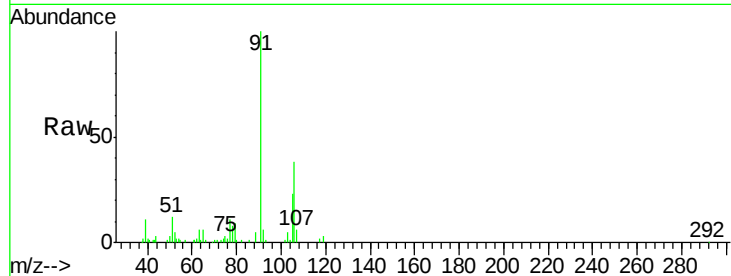
IA-1DL

Tgt Ion: 91 Resp: 61805

Ion Ratio Lower Upper

91 100

106 35.2 26.2 39.2



#59

m/p-Xylene

Concen: 0.030 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.00 min

Lab File: VL037334.D

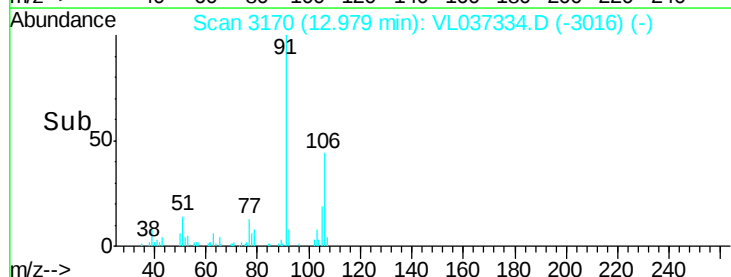
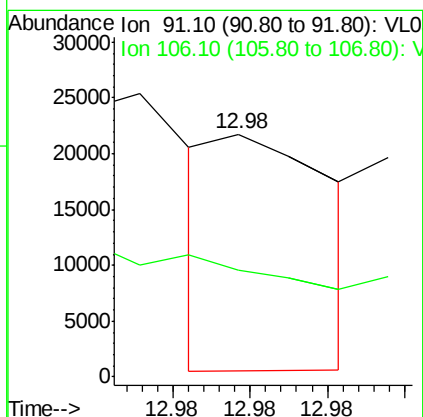
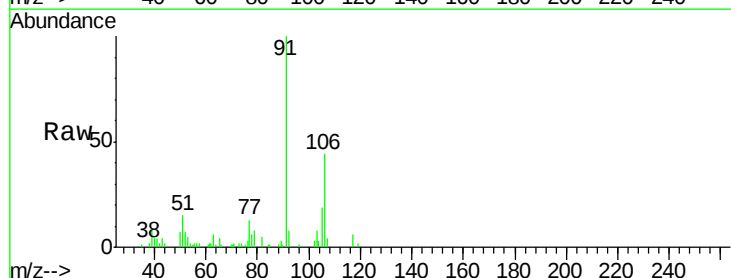
Acq: 5 Aug 2021 8:36

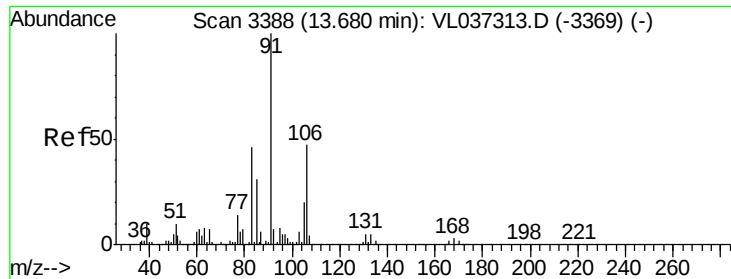
Tgt Ion: 91 Resp: 11048

Ion Ratio Lower Upper

91 100

106 0.0 37.8 56.8#

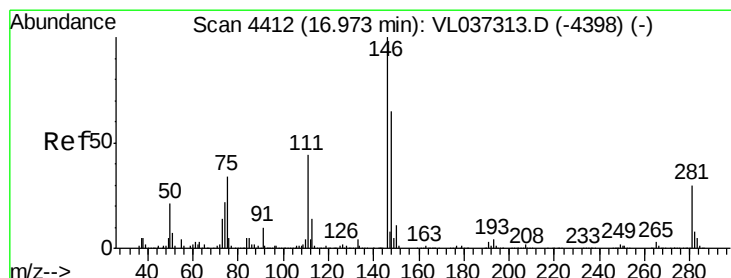
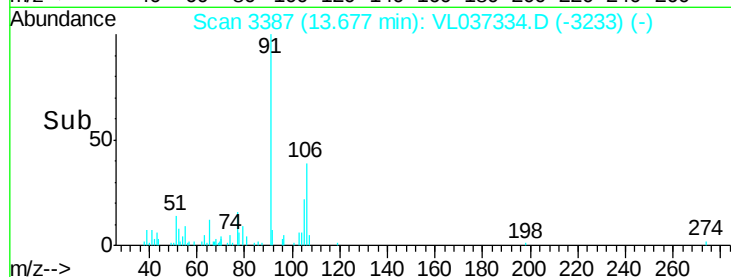
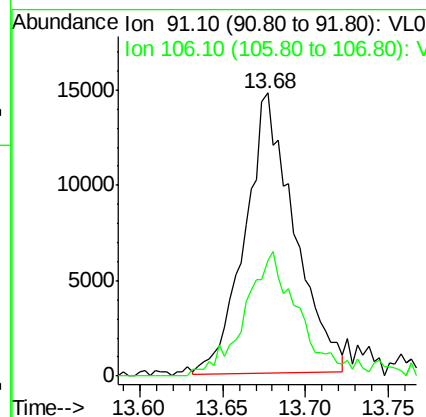
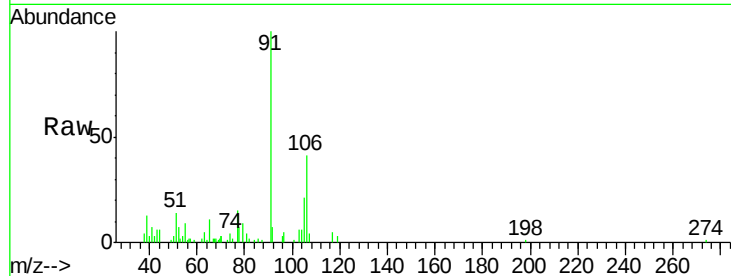




#60
o-Xylene
Concen: 0.091 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.00 min
Lab File: VL037334.D
Acq: 5 Aug 2021 8:36

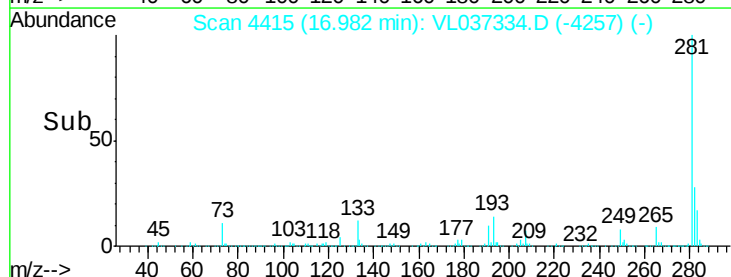
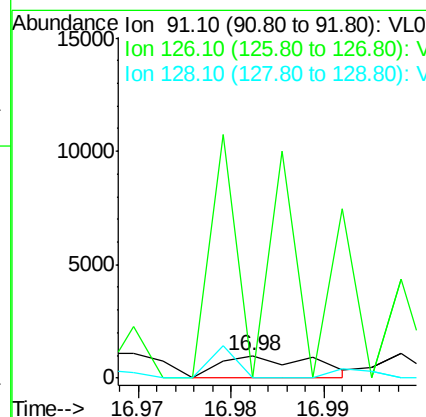
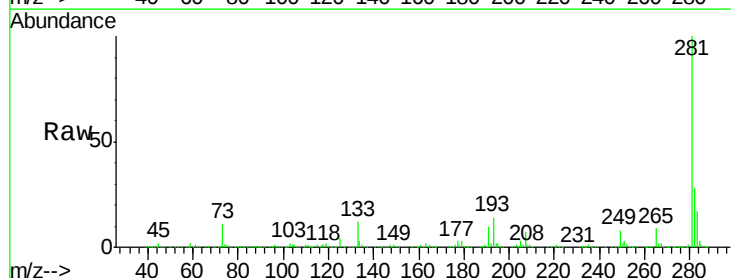
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

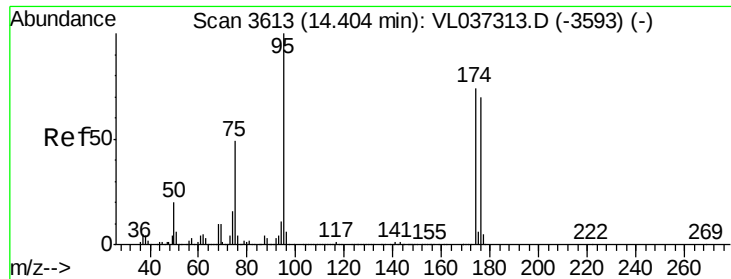
Tgt Ion: 91 Resp: 30444
Ion Ratio Lower Upper
91 100
106 49.0 26.3 78.8



#66
Benzyl Chloride
Concen: 0.040 ppbv
RT: 16.98 min Scan# 4415
Delta R.T. 0.01 min
Lab File: VL037334.D
Acq: 5 Aug 2021 8:36

Tgt Ion: 91 Resp: 690
Ion Ratio Lower Upper
91 100
126 0.0 17.8 26.6#
128 0.0 5.8 8.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.470 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

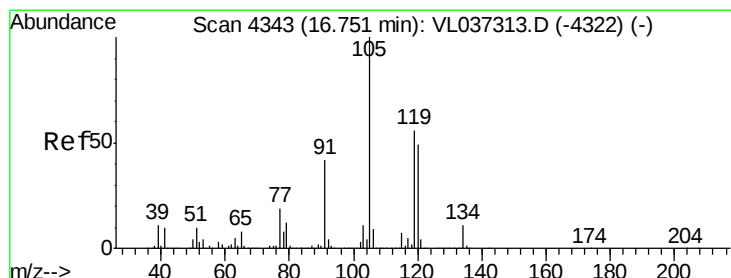
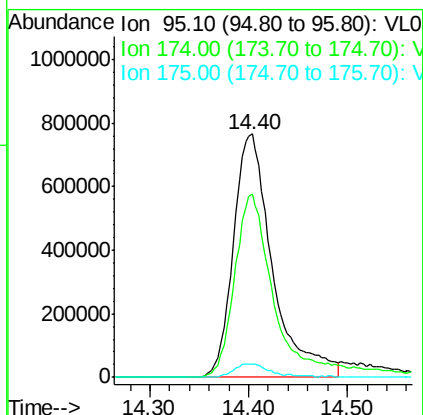
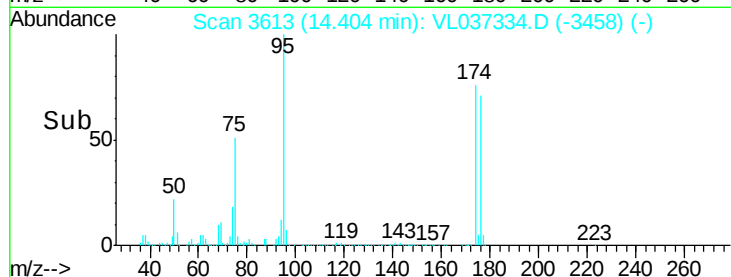
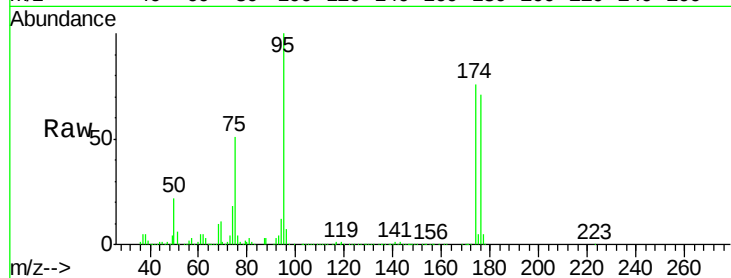
Tgt Ion: 95 Resp: 2118425

Ion Ratio Lower Upper

95 100

174 80.0 66.9 100.3

175 5.7 5.1 7.7



#74

1,2,4-Trimethylbenzene

Concen: 0.053 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL037334.D

Acq: 5 Aug 2021 8:36

Tgt Ion: 105 Resp: 20588

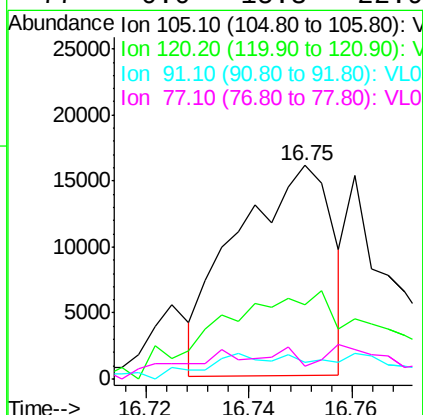
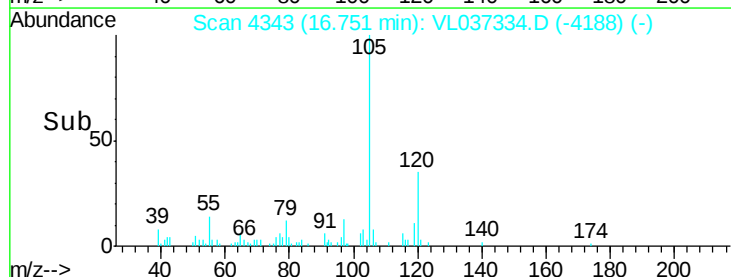
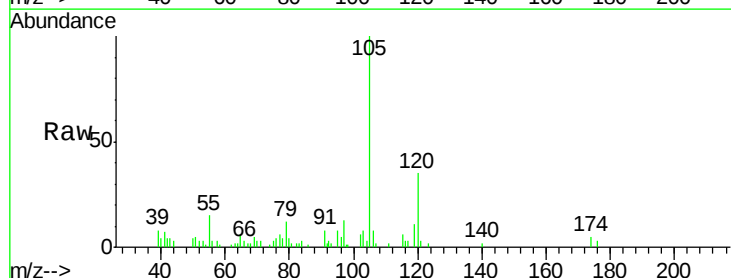
Ion Ratio Lower Upper

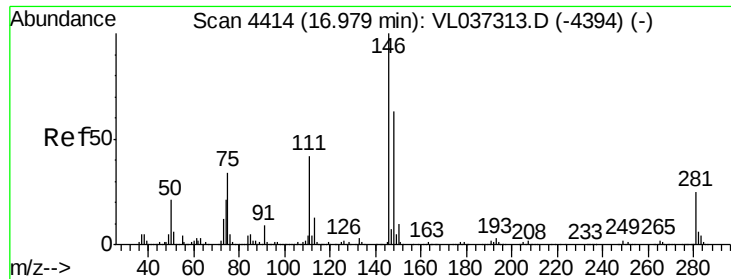
105 100

120 25.7 39.6 59.4#

91 7.6 34.5 51.7#

77 0.0 15.3 22.9#

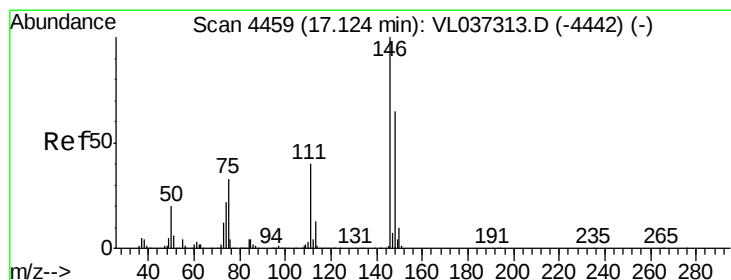
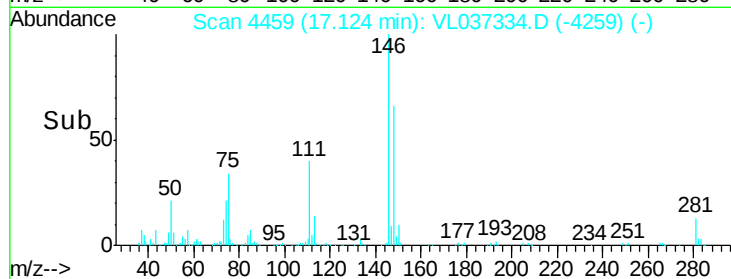
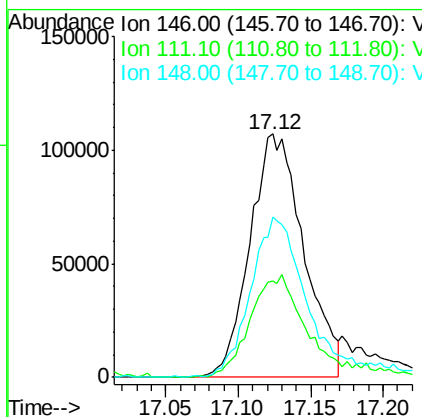
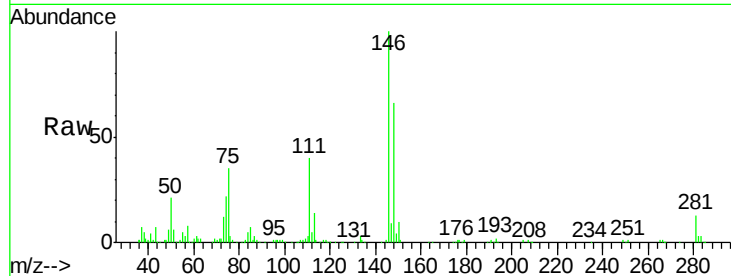




#75
 1,3-Dichlorobenzene
 Concen: 1.169 ppbv
 RT: 17.12 min Scan# 4459
 Delta R.T. 0.14 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1DL

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	21.4	64.3
148	72.2	32.6	97.7



#76
 1,4-Dichlorobenzene
 Concen: 1.178 ppbv
 RT: 17.12 min Scan# 4459
 Delta R.T. -0.00 min
 Lab File: VL037334.D
 Acq: 5 Aug 2021 8:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	21.0	63.0
148	72.2	33.5	100.4

