

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102521\
 Data File : VL037897.D
 Acq On : 25 Oct 2021 17:03
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Oct 25 23:51:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1375096	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	4058433	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3323780	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2333064	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

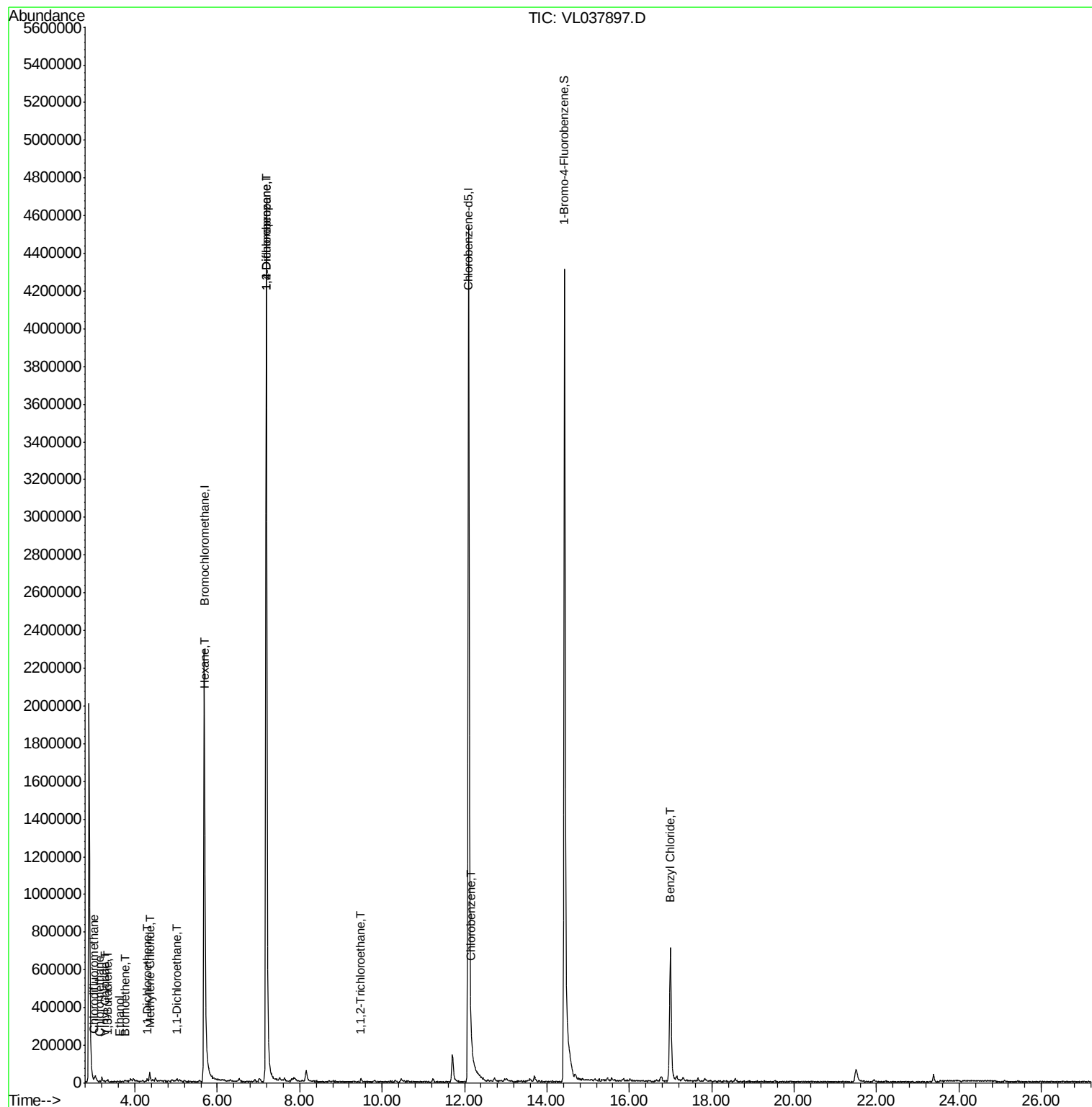
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	13606	0.051	ppbv	93
4) Chloromethane	3.15	50	2115	0.022	ppbv #	83
5) Vinyl Chloride	3.27	62	2232	0.025	ppbv #	81
13) Ethanol	3.64	45	954	0.120	ppbv #	27
14) Bromoethene	3.75	108	1634	0.025	ppbv #	28
16) 1,3-Butadiene	3.34	39	2633	0.029	ppbv #	47
18) 1,1-Dichloroethene	4.30	96	1500	0.022	ppbv #	47
20) Methylene Chloride	4.36	84	9008	0.144	ppbv #	69
24) 1,1-Dichloroethane	5.02	63	3730	0.028	ppbv #	95
26) Hexane	5.70	57	4028	0.024	ppbv #	1
39) 1,2-Dichloropropane	7.19	63	931839	7.147	ppbv #	28
47) 1,1,2-Trichloroethane	9.48	97	3315	0.023	ppbv #	86
57) Chlorobenzene	12.16	112	5957	0.022	ppbv #	75
66) Benzyl Chloride	16.99	91	983	0.044	ppbv #	25

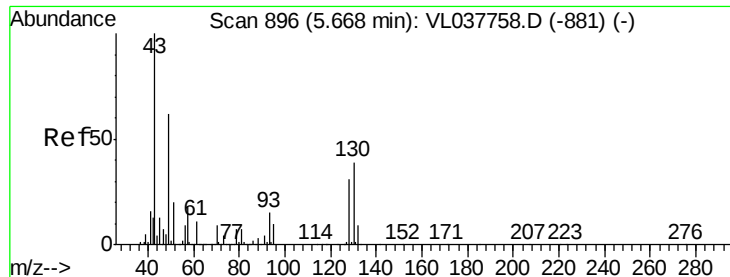
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 25 Oct 2021 17:03

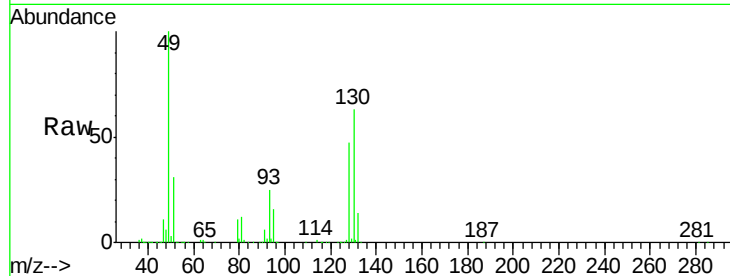
Tgt Ion: 49 Resp: 1375096

Ion Ratio Lower Upper

49 100

128 54.7 27.1 81.3

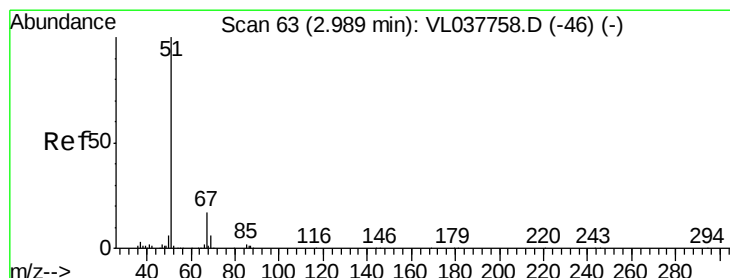
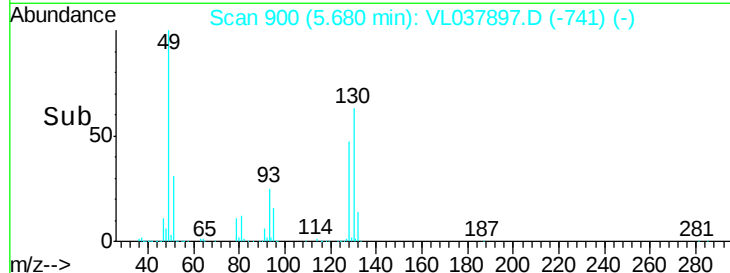
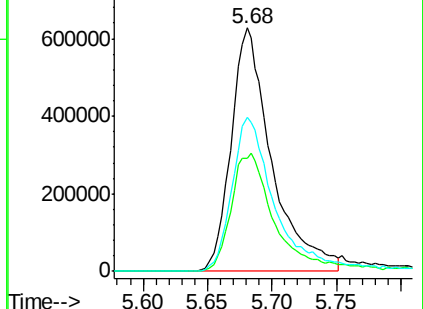
130 69.8 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL037897.D

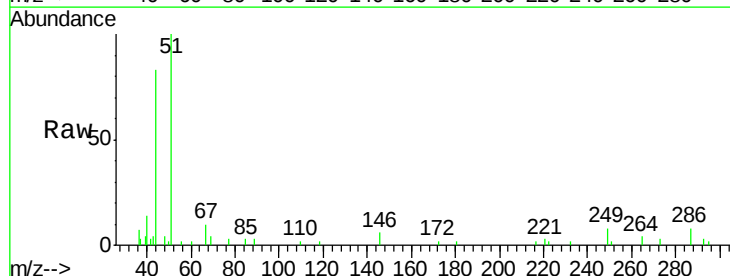
Acq: 25 Oct 2021 17:03

Tgt Ion: 51 Resp: 13606

Ion Ratio Lower Upper

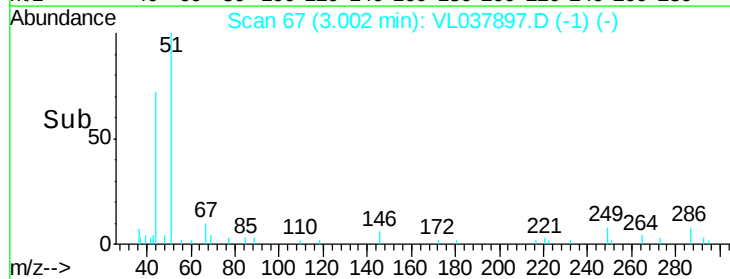
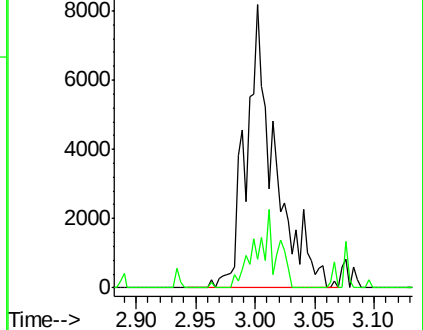
51 100

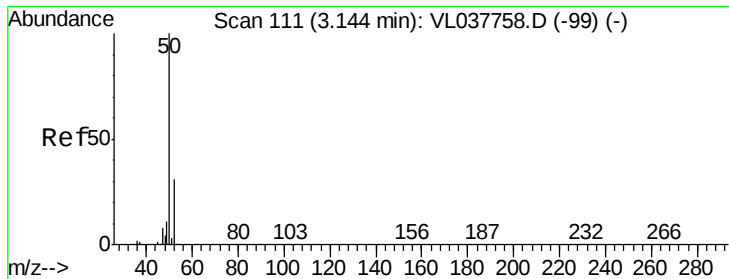
67 20.0 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.022 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

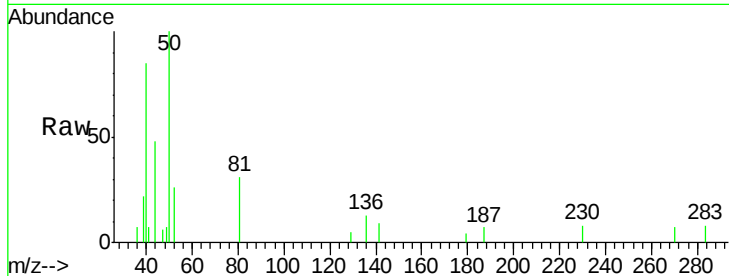
Acq: 25 Oct 2021 17:03

Tgt Ion: 50 Resp: 2115

Ion Ratio Lower Upper

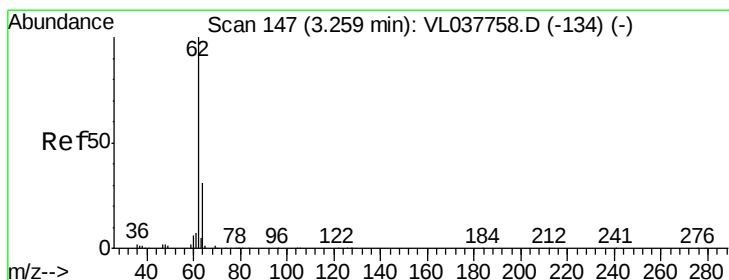
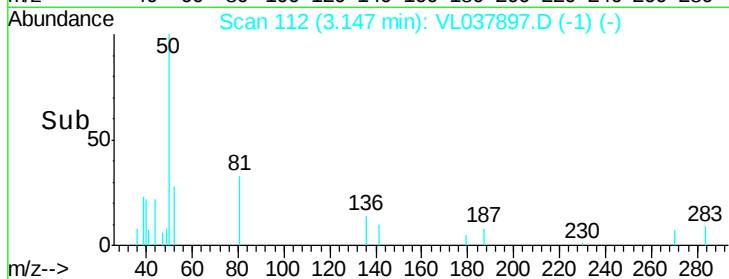
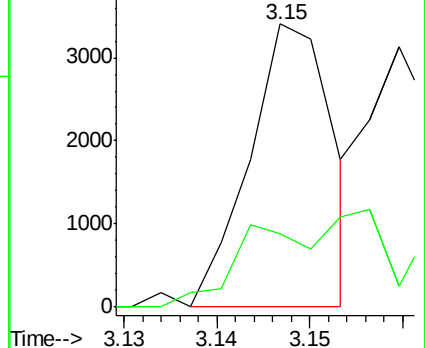
50 100

52 21.0 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.025 ppbv

RT: 3.27 min Scan# 151

Delta R.T. 0.01 min

Lab File: VL037897.D

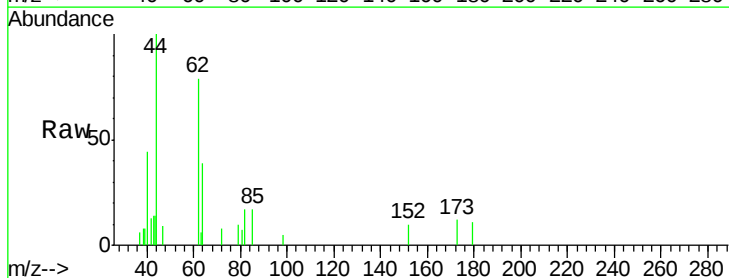
Acq: 25 Oct 2021 17:03

Tgt Ion: 62 Resp: 2232

Ion Ratio Lower Upper

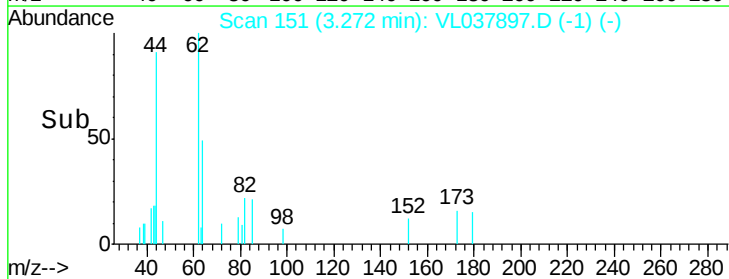
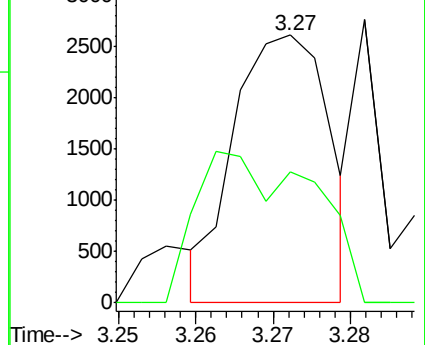
62 100

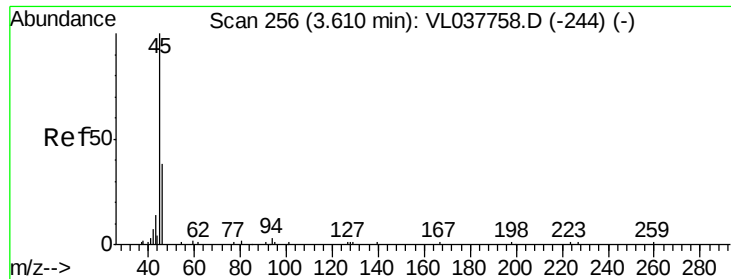
64 20.5 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

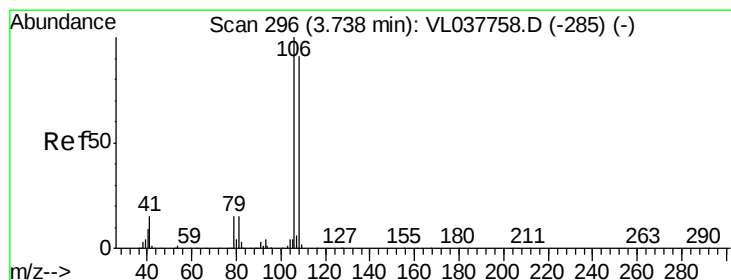
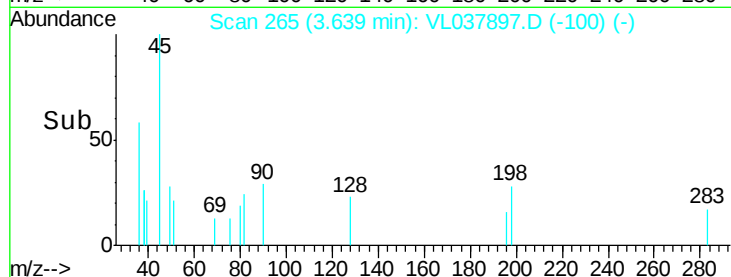
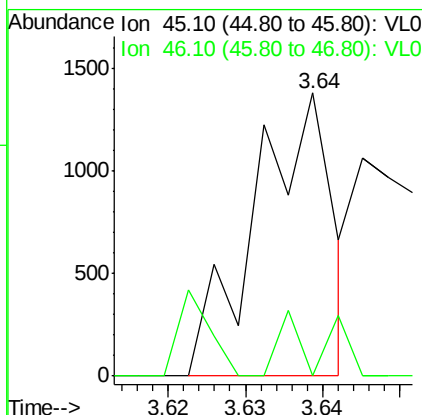
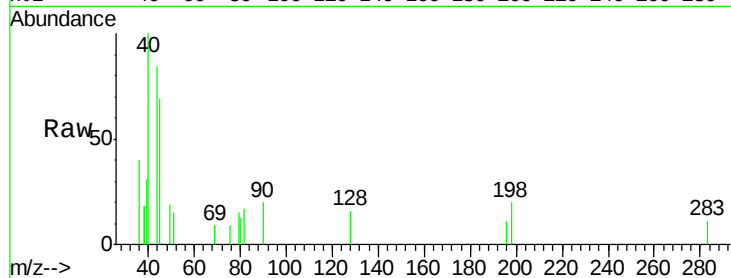
Ion 64.10 (63.80 to 64.80): VL0





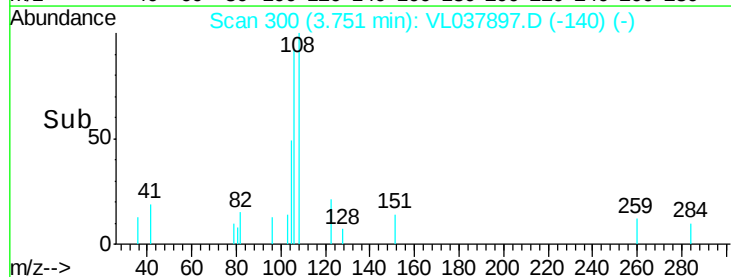
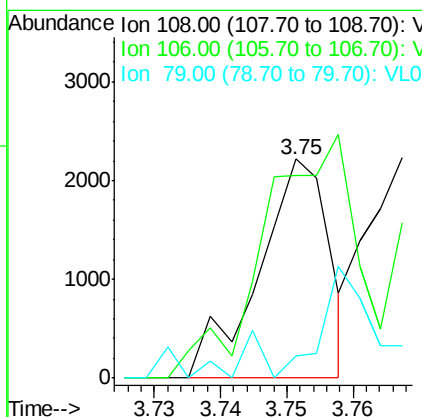
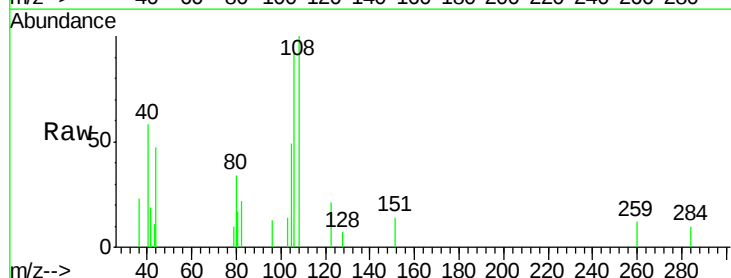
#13
 Ethanol
 Concen: 0.120 ppbv
 RT: 3.64
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Oct 2021 17:03

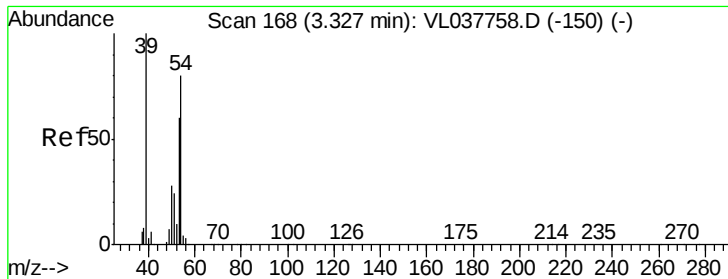
Tgt Ion: 45 Resp: 954
 Ion Ratio Lower Upper
 45 100
 46 0.0 20.2 81.0#



#14
 Bromoethene
 Concen: 0.025 ppbv
 RT: 3.75 min Scan# 300
 Delta R.T. 0.01 min
 Lab File: VL037897.D
 Acq: 25 Oct 2021 17:03

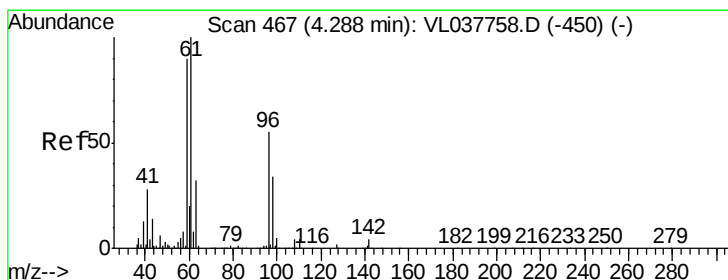
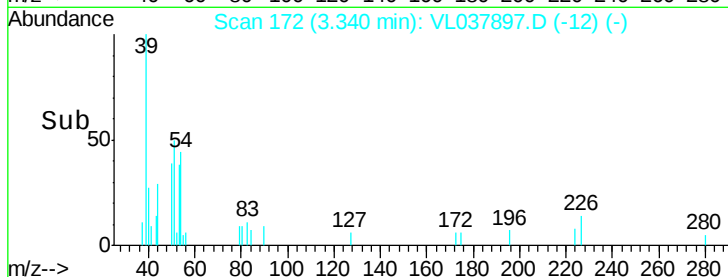
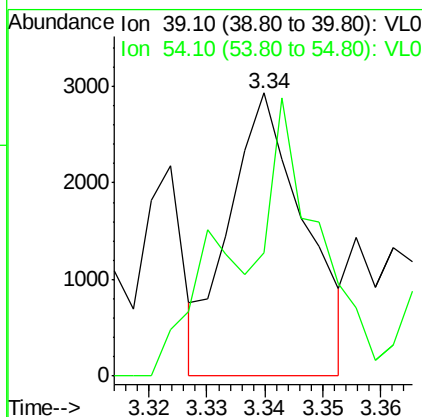
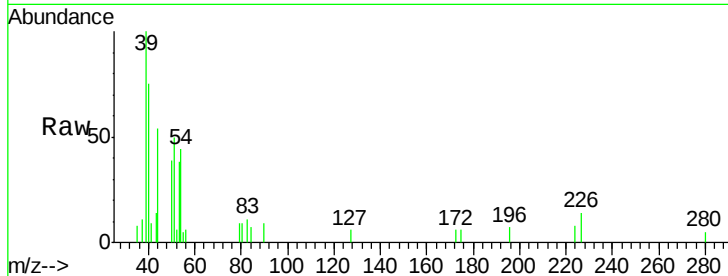
Tgt Ion: 108 Resp: 1634
 Ion Ratio Lower Upper
 108 100
 106 192.0 91.9 137.9#
 79 52.8 13.9 20.9#





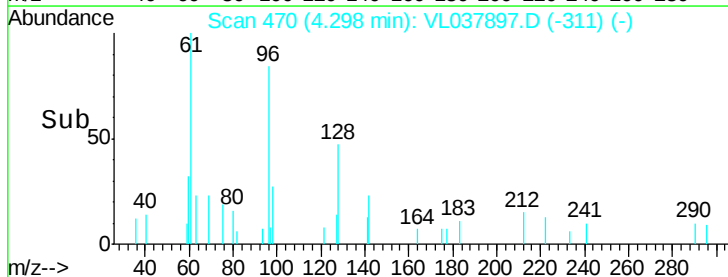
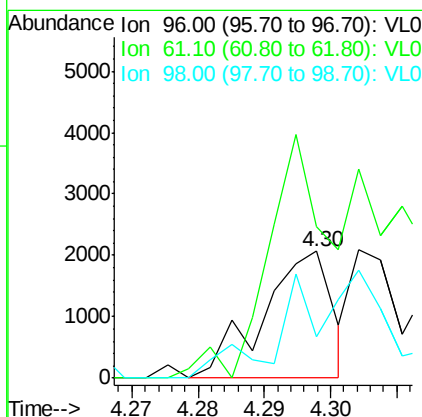
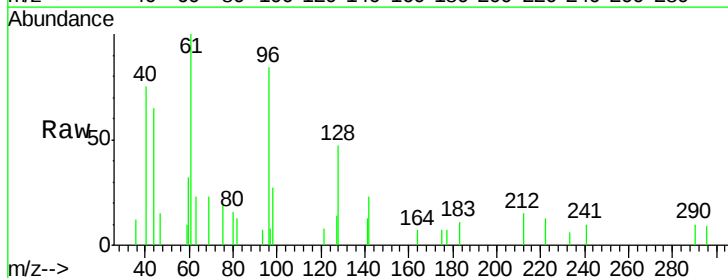
#16
 1,3-Butadiene
 Concen: 0.029 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 VIBLK
 Acq: 25 Oct 2021 17:03

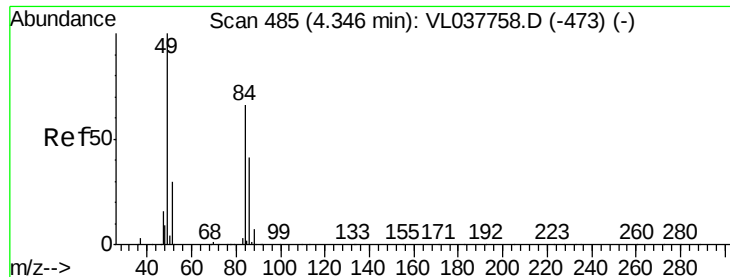
Tgt Ion: 39 Resp: 2633
 Ion Ratio Lower Upper
 39 100
 54 123.0 61.7 92.5#



#18
 1,1-Dichloroethene
 Concen: 0.022 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL037897.D
 Acq: 25 Oct 2021 17:03

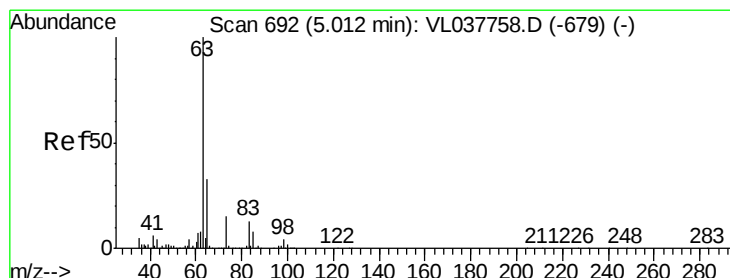
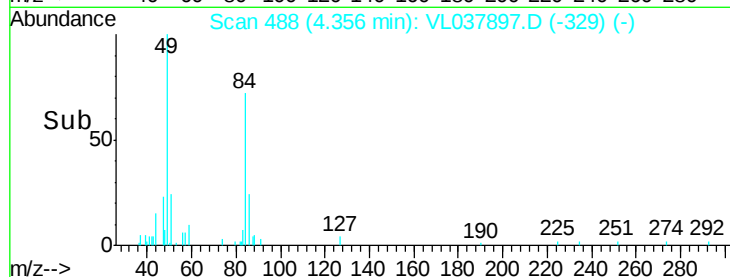
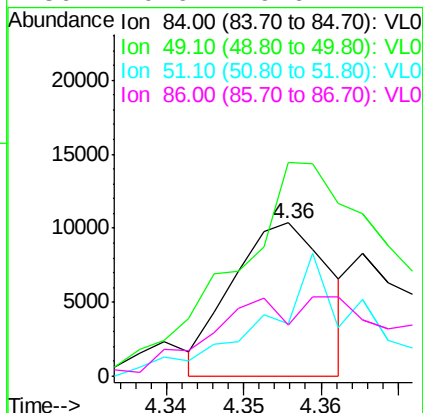
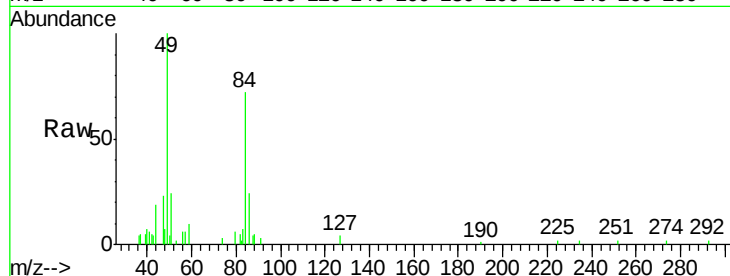
Tgt Ion: 96 Resp: 1500
 Ion Ratio Lower Upper
 96 100
 61 101.6 146.2 219.4#
 98 29.5 50.0 75.0#





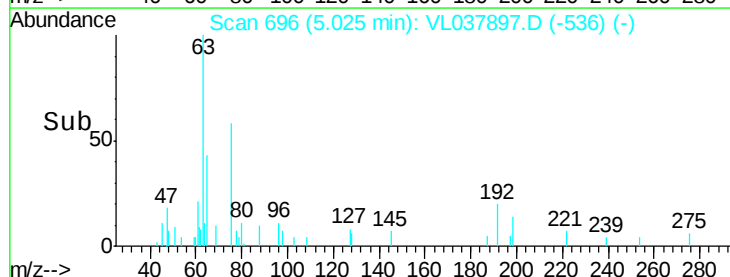
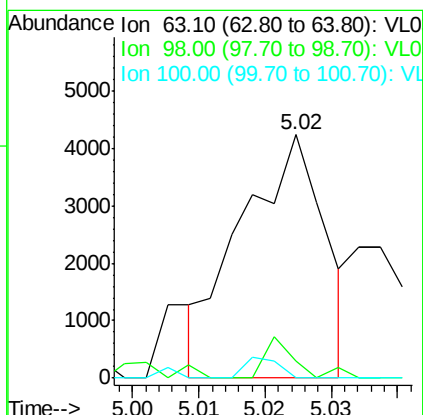
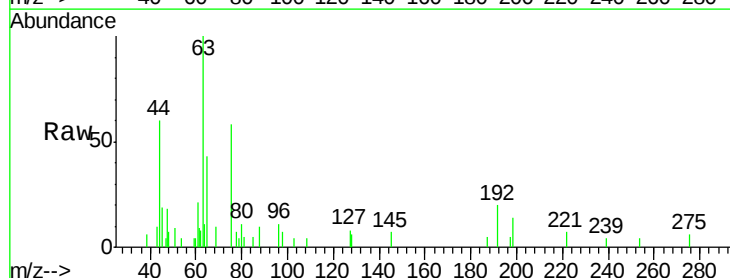
#20
Methylene Chloride
Concen: 0.144 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 17:03

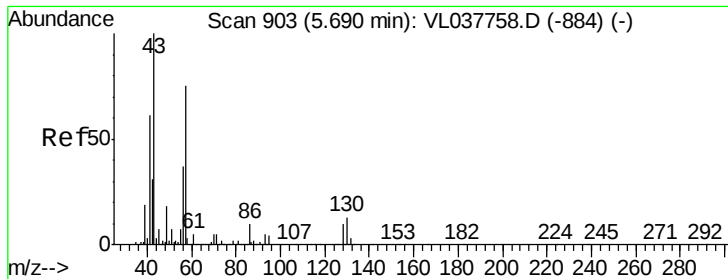
Tgt Ion:	84	Resp:	9008
Ion	Ratio	Lower	Upper
84	100		
49	120.8	120.7	181.1
51	28.8	36.2	54.4#
86	19.6	49.6	74.4#



#24
1,1-Dichloroethane
Concen: 0.028 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL037897.D
Acq: 25 Oct 2021 17:03

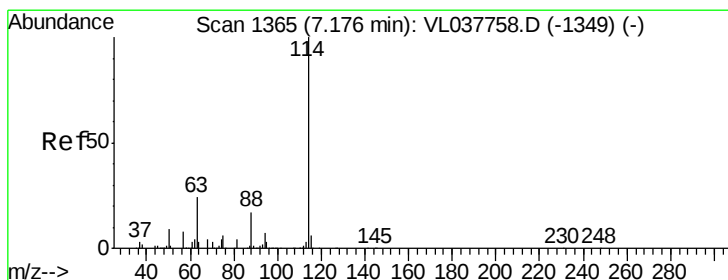
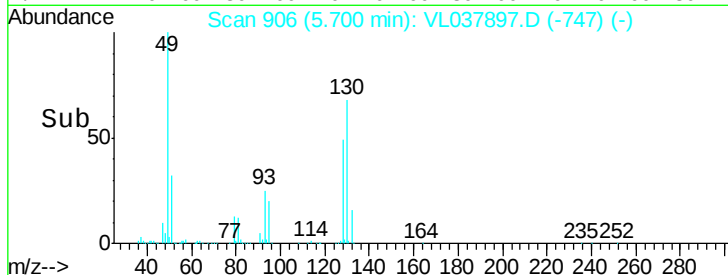
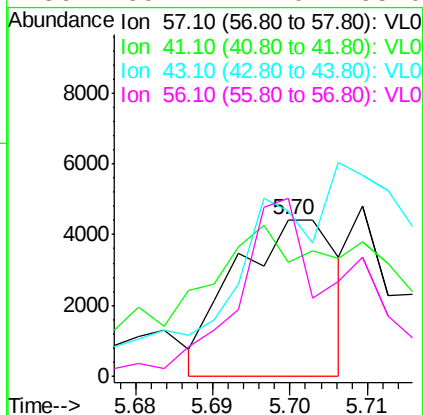
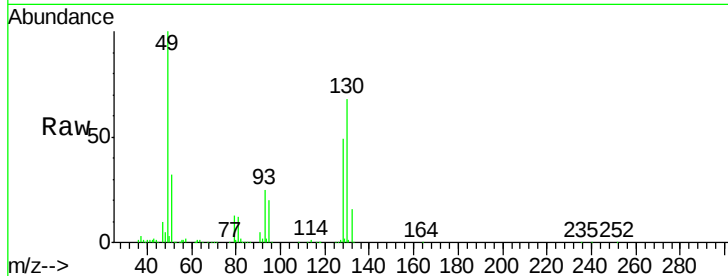
Tgt Ion:	63	Resp:	3730
Ion	Ratio	Lower	Upper
63	100		
98	3.2	2.3	6.9
100	0.0	1.1	3.1#





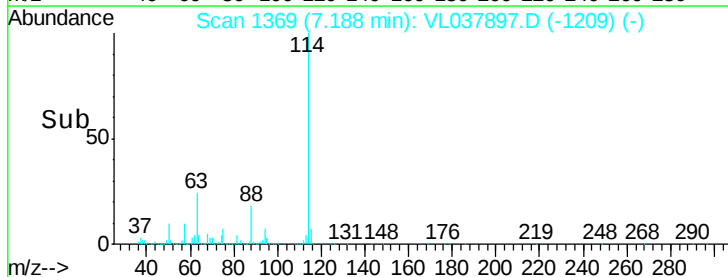
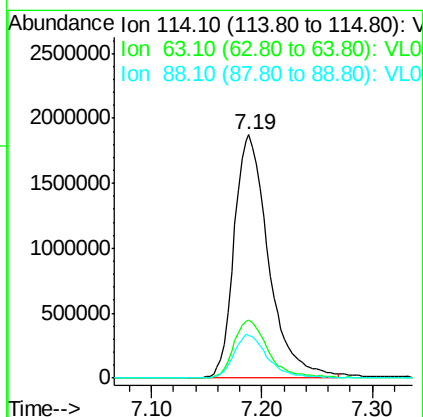
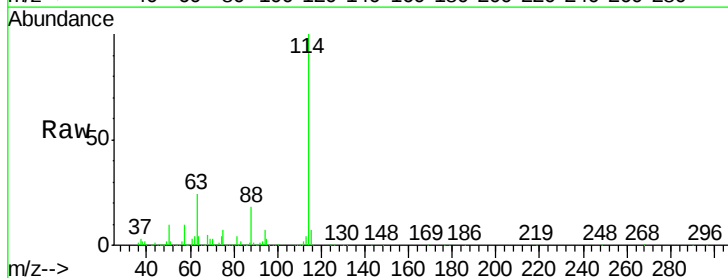
#26
Hexane
Concen: 0.024 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 17:03

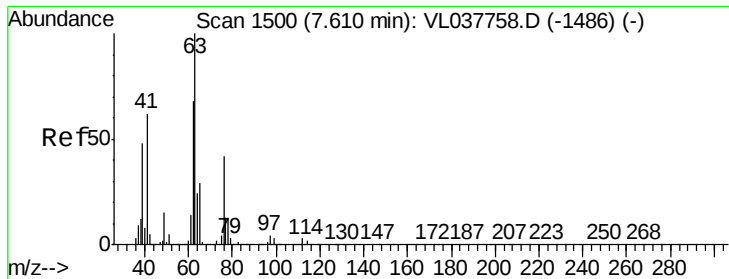
Tgt Ion: 57 Resp: 4028
Ion Ratio Lower Upper
57 100
41 242.6 69.6 104.4#
43 0.0 171.4 257.0#
56 169.2 42.0 63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL037897.D
Acq: 25 Oct 2021 17:03

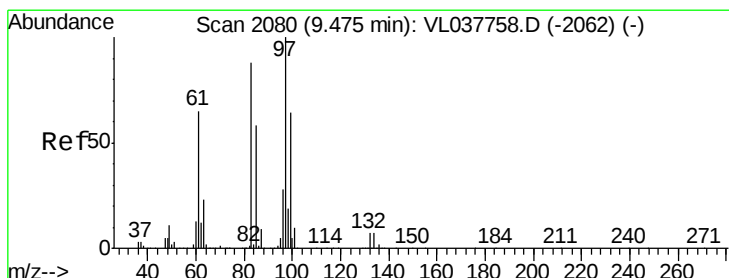
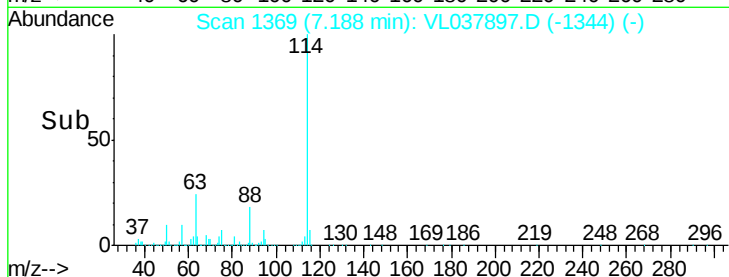
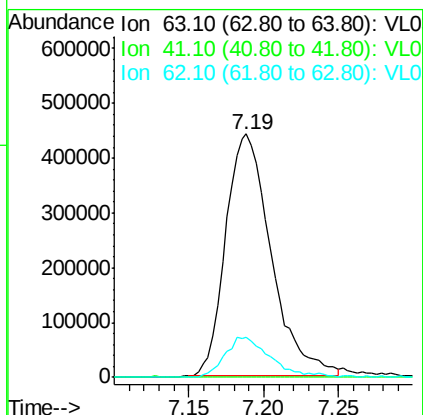
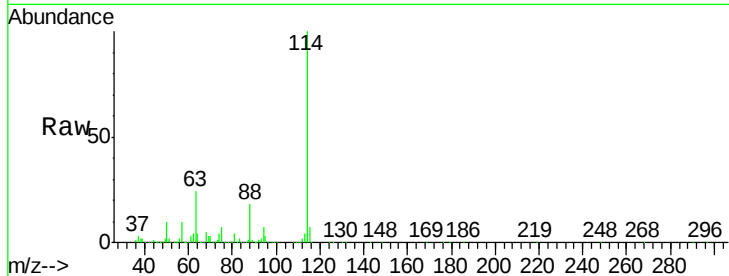
Tgt Ion: 114 Resp: 4058433
Ion Ratio Lower Upper
114 100
63 24.0 19.4 29.2
88 17.9 14.4 21.6





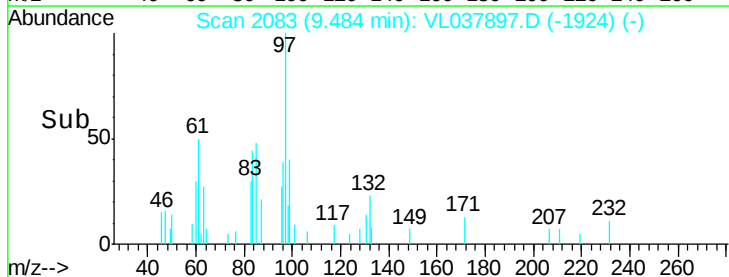
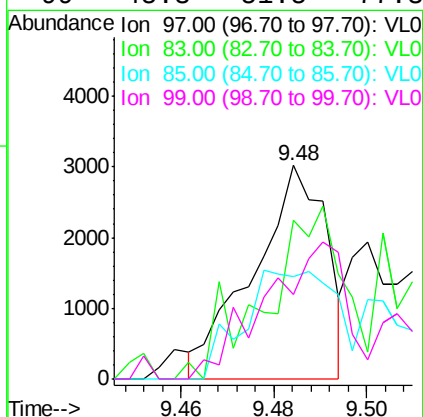
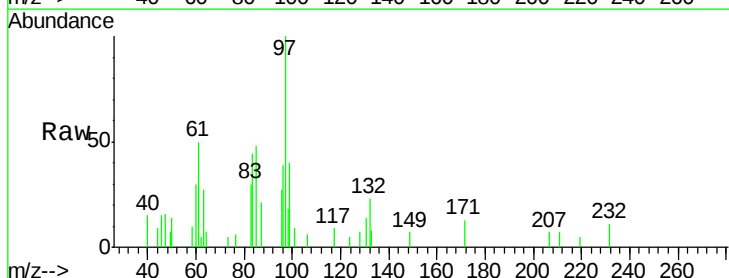
#39
 1,2-Dichloropropane
 Concen: 7.147 ppbv
 RT: 7.19
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Oct 2021 17:03

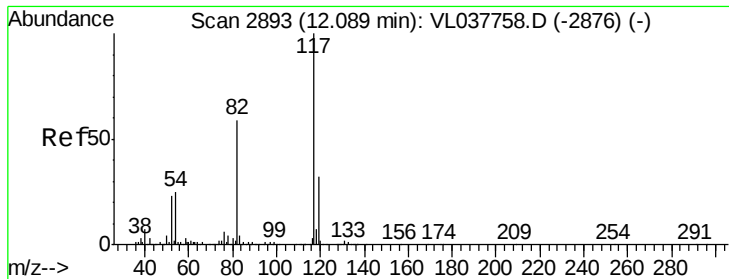
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	16.4	54.6	82.0#



#47
 1,1,2-Trichloroethane
 Concen: 0.023 ppbv
 RT: 9.48 min Scan# 2083
 Delta R.T.: 0.01 min
 Lab File: VL037897.D
 Acq: 25 Oct 2021 17:03

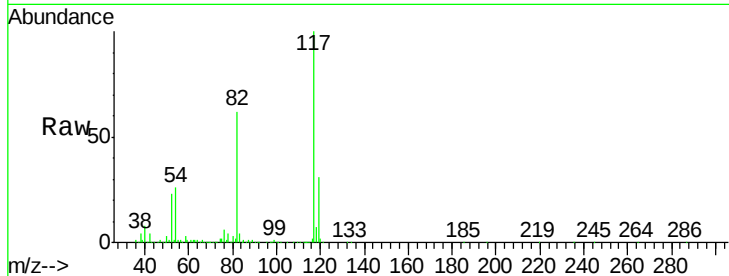
Tgt Ion	Ratio	Lower	Upper
97	100		
83	76.2	70.6	105.8
85	54.8	45.9	68.9
99	45.3	51.5	77.3#



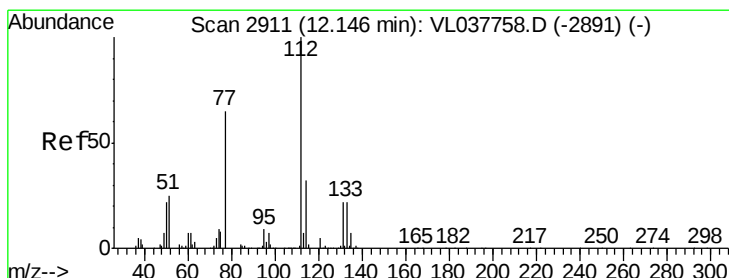
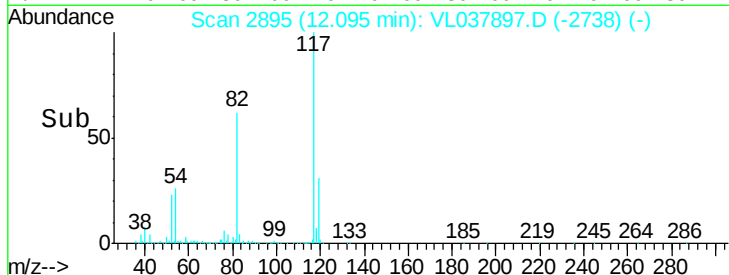
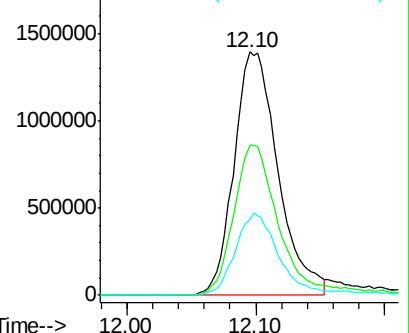


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Oct 2021 17:03

Tgt Ion: 117 Resp: 3323780
Ion Ratio Lower Upper
117 100
82 66.4 52.2 78.2
119 35.1 26.0 39.0

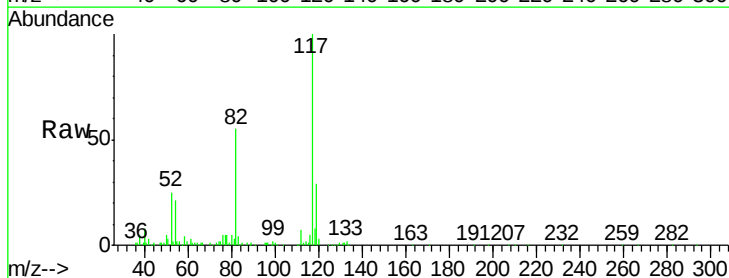


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

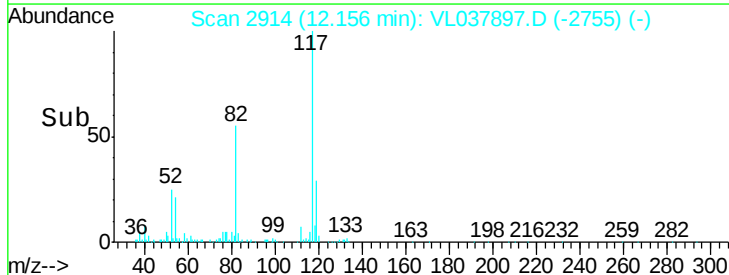
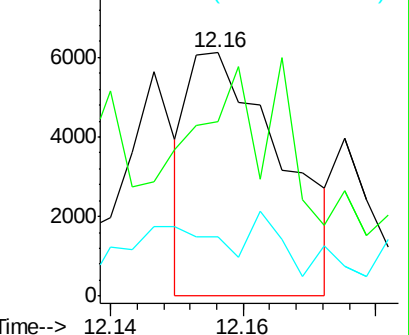


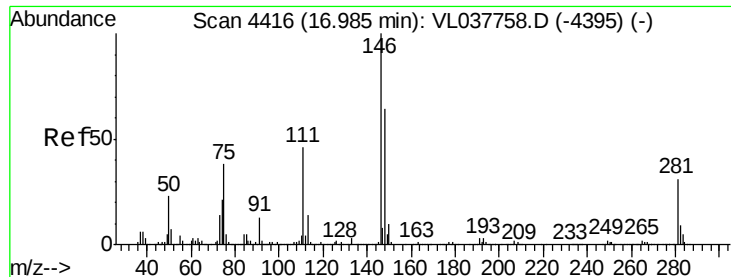
#57
Chlorobenzene
Concen: 0.022 ppbv
RT: 12.16 min Scan# 2914
Delta R.T.: 0.01 min
Lab File: VL037897.D
Acq: 25 Oct 2021 17:03

Tgt Ion: 112 Resp: 5957
Ion Ratio Lower Upper
112 100
77 76.8 51.8 77.8
114 7.0 28.8 35.2#



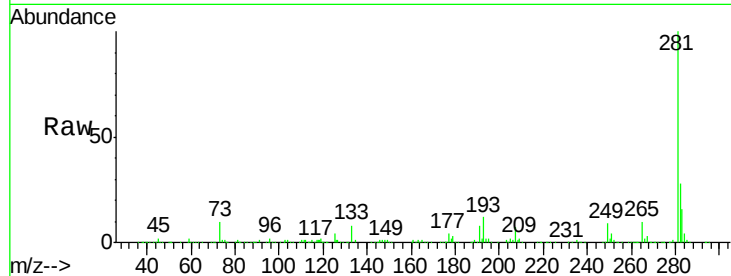
Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V



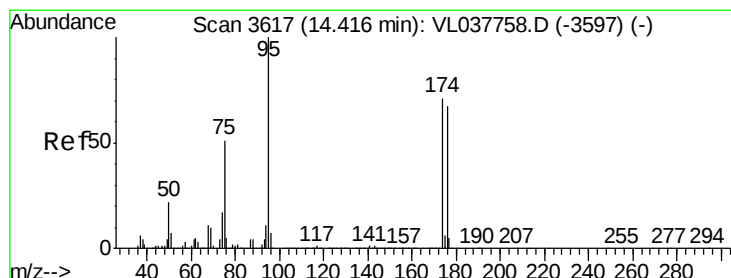
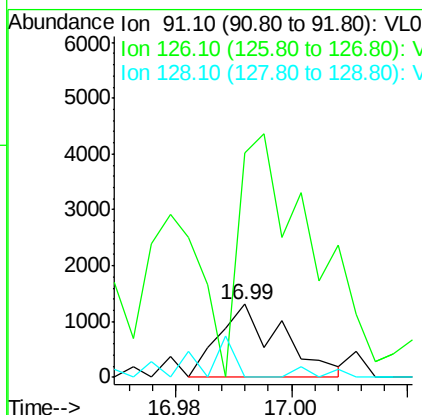
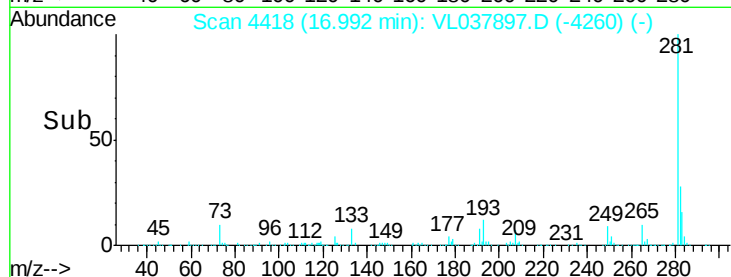


#66
Benzyl Chloride
Concen: 0.044 ppbv
RT: 16.99 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Oct 2021 17:03

Tgt Ion: 91 Resp: 983
Ion Ratio Lower Upper
91 100
126 721.5 0.0 0.0#
128 32.1 5.3 7.9#

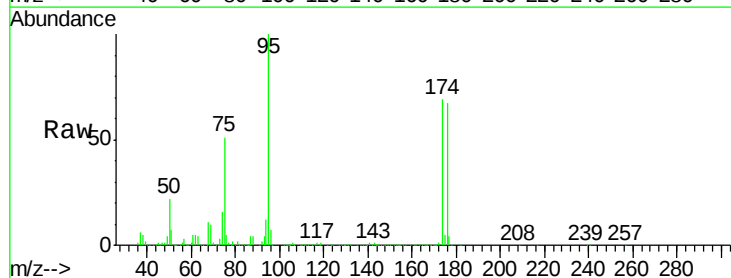


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 14.43 min Scan# 3620
Delta R.T.: 0.01 min
Lab File: VL037897.D
Acq: 25 Oct 2021 17:03

Tgt Ion: 95 Resp: 2333064
Ion Ratio Lower Upper
95 100
174 76.6 57.8 86.6
175 5.2 4.7 7.1



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

