

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102021\
 Data File : VL037880.D
 Acq On : 20 Oct 2021 10:11
 Operator : SY/AP
 Sample : CAN 10281
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10281

Quant Time: Oct 21 01:30:51 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	5.66	49	1142933	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3317492	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2792283	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1968730	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

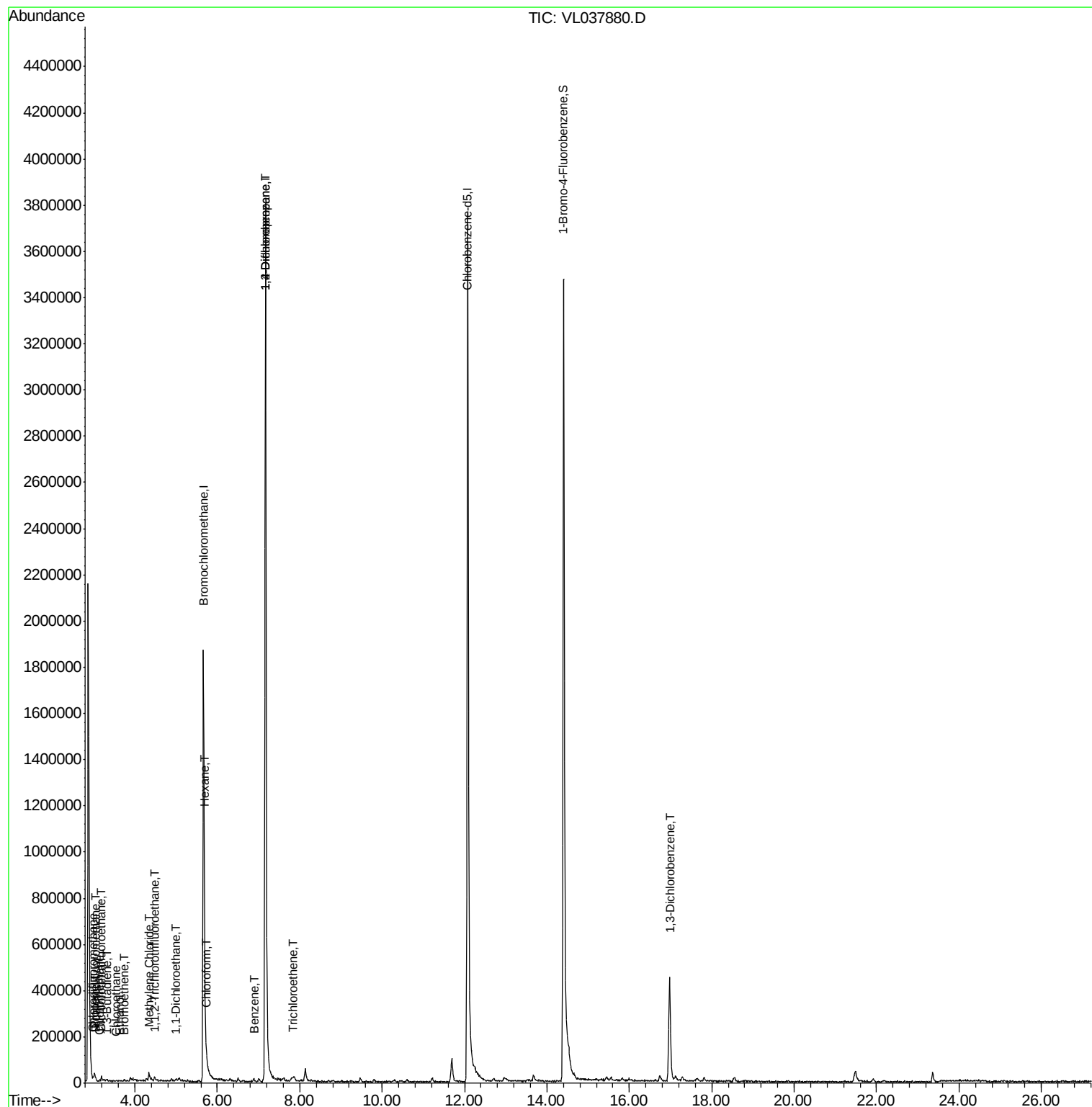
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	4501	0.025	ppbv	91
3) Chlorodifluoromethane	2.99	51	12271	0.056	ppbv	95
4) Chloromethane	3.14	50	3742	0.047	ppbv #	48
7) Chloroethane	3.56	64	775	0.029	ppbv #	40
8) Dichlorotetrafluoroethane	3.19	85	7058	0.039	ppbv #	54
9) Propene	3.01	41	4516	0.056	ppbv #	16
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3614	0.029	ppbv #	46
13) Ethanol	3.62	45	1365	0.207	ppbv #	55
14) Bromoethene	3.74	108	1706	0.031	ppbv #	63
16) 1,3-Butadiene	3.33	39	2610	0.035	ppbv #	71
20) Methylene Chloride	4.35	84	6423	0.124	ppbv #	77
24) 1,1-Dichloroethane	5.01	63	2900	0.026	ppbv #	89
26) Hexane	5.69	57	3411	0.024	ppbv #	1
29) Chloroform	5.74	83	6250	0.031	ppbv #	59
36) Benzene	6.89	78	5941	0.021	ppbv #	26
38) Trichloroethene	7.83	130	2433	0.022	ppbv #	21
39) 1,2-Dichloropropane	7.17	63	768287	7.208	ppbv #	27
75) 1,3-Dichlorobenzene	16.99	146	4747	0.023	ppbv #	1

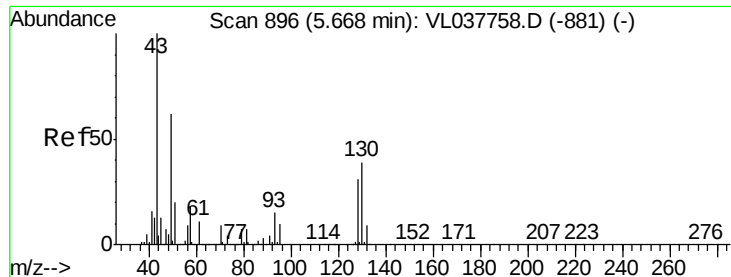
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: CAN 10281

Acq: 20 Oct 2021 10:11

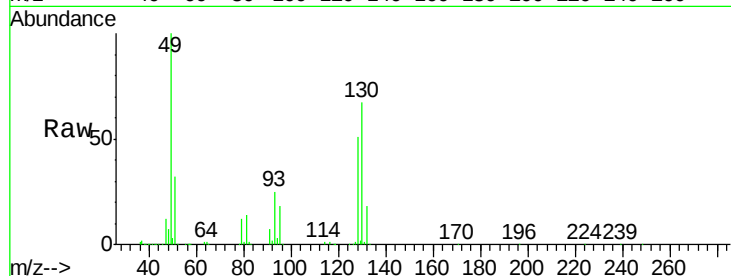
Tgt Ion: 49 Resp: 1142933

Ion Ratio Lower Upper

49 100

128 53.7 27.1 81.3

130 69.9 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

5.66

600000

500000

400000

300000

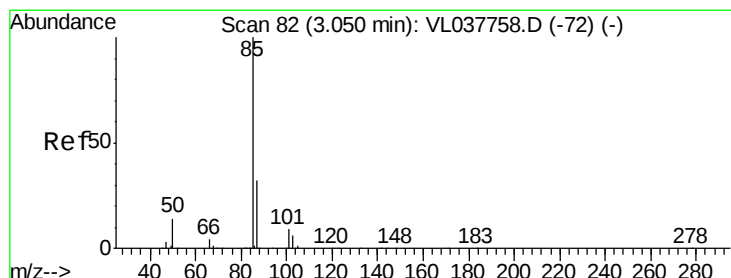
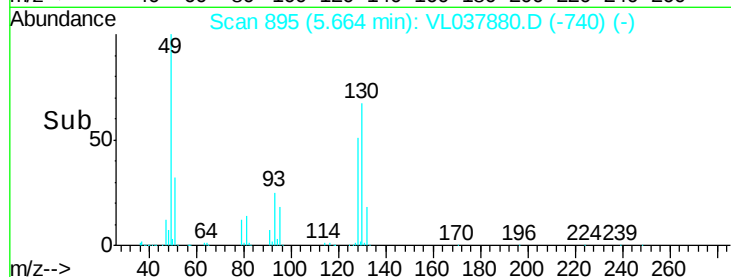
200000

100000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.025 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037880.D

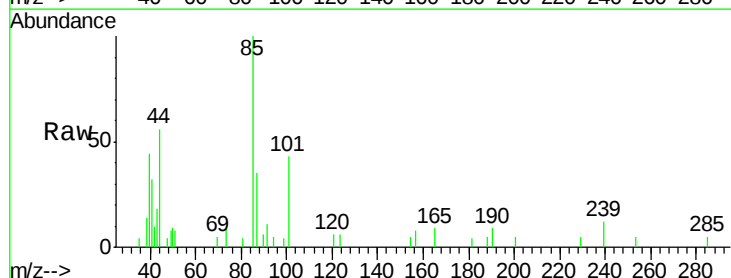
Acq: 20 Oct 2021 10:11

Tgt Ion: 85 Resp: 4501

Ion Ratio Lower Upper

85 100

87 37.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

5000

4000

3000

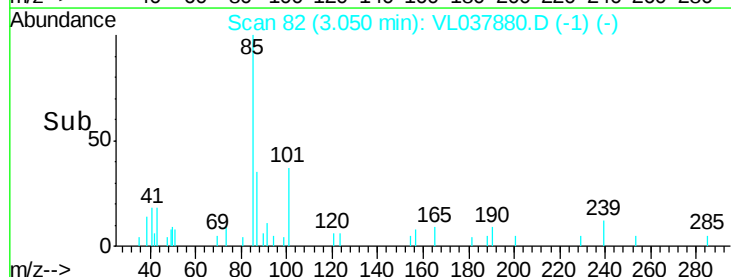
2000

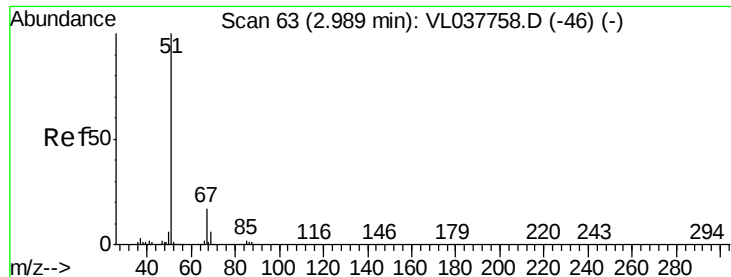
1000

0

3.04 3.06 3.08

Time-->





#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: CAN 10281

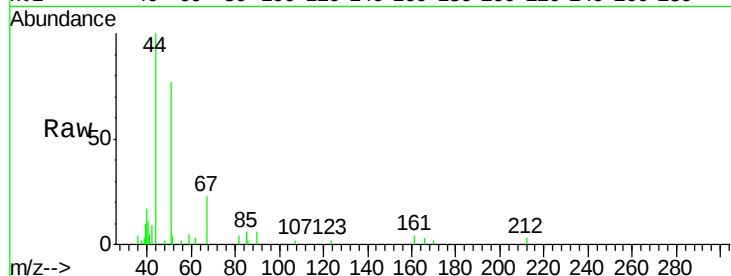
Acq: 20 Oct 2021 10:11

Tgt Ion: 51 Resp: 12271

Ion Ratio Lower Upper

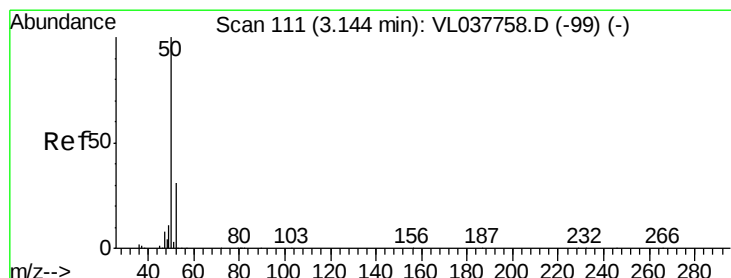
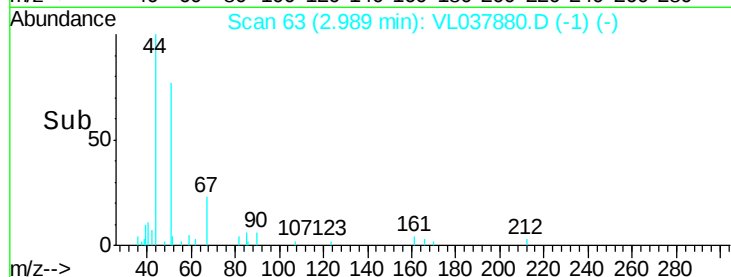
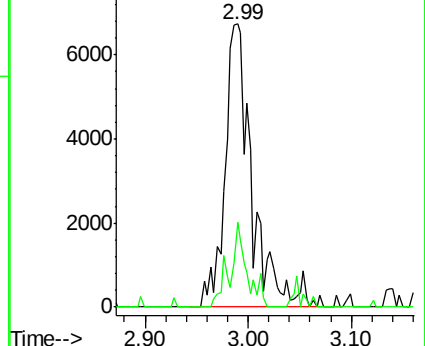
51 100

67 19.0 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: 0.047 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037880.D

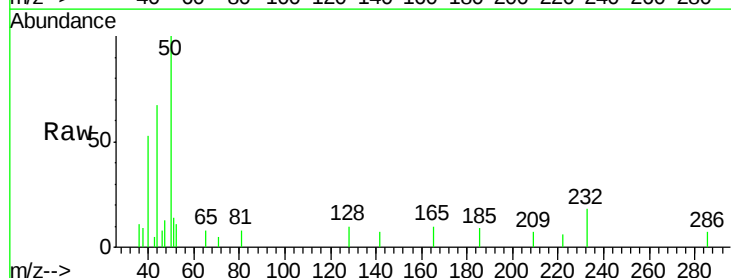
Acq: 20 Oct 2021 10:11

Tgt Ion: 50 Resp: 3742

Ion Ratio Lower Upper

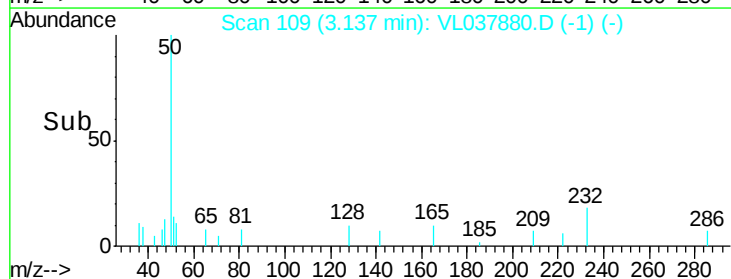
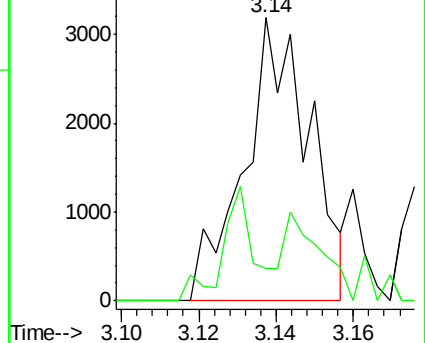
50 100

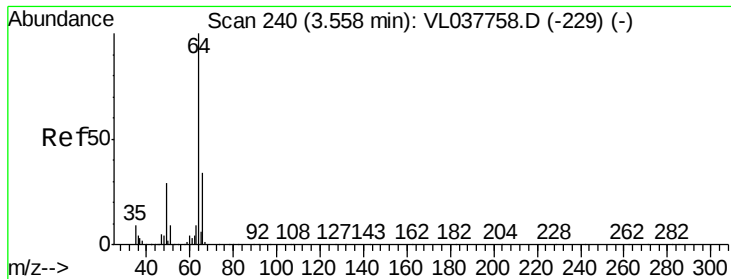
52 2.3 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.029 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

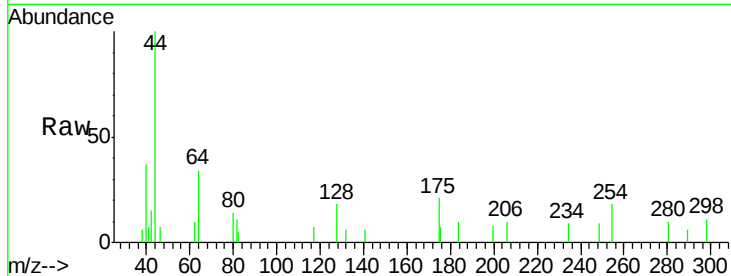
Acq: 20 Oct 2021 10:11 CAN 10281

Tgt Ion: 64 Resp: 775

Ion Ratio Lower Upper

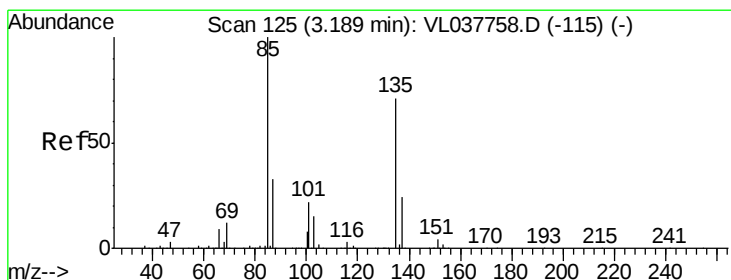
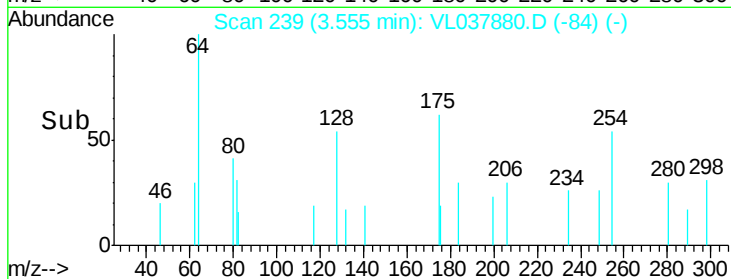
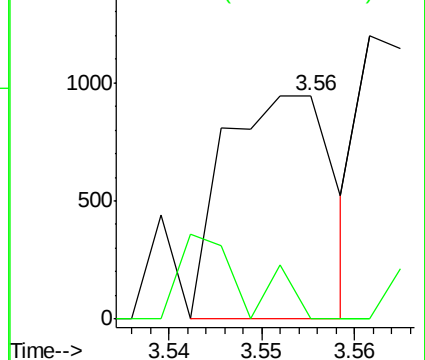
64 100

66 0.0 27.5 41.3#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.039 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL037880.D

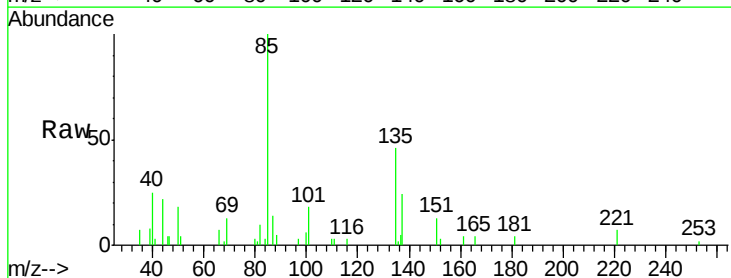
Acq: 20 Oct 2021 10:11

Tgt Ion: 85 Resp: 7058

Ion Ratio Lower Upper

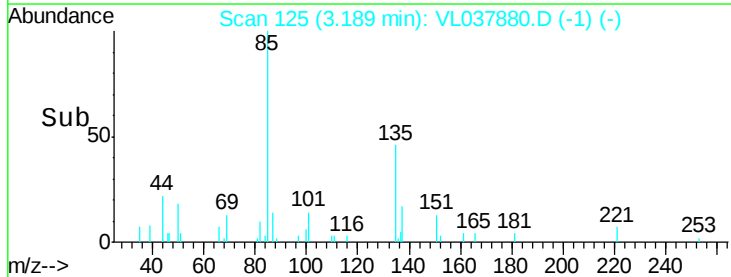
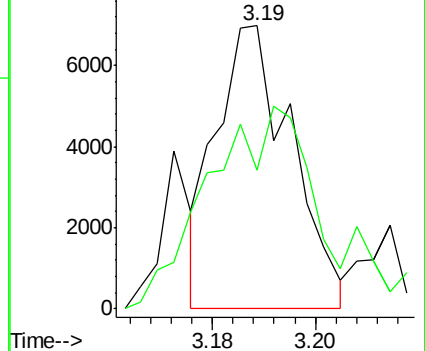
85 100

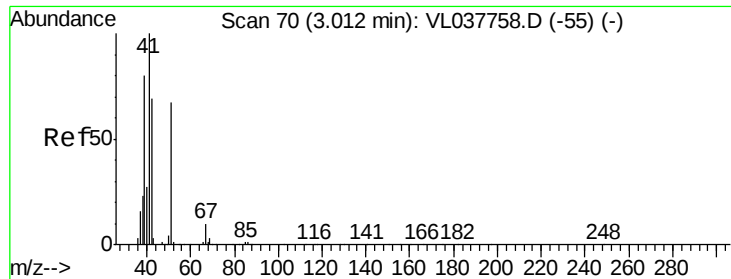
135 113.3 59.5 89.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.056 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

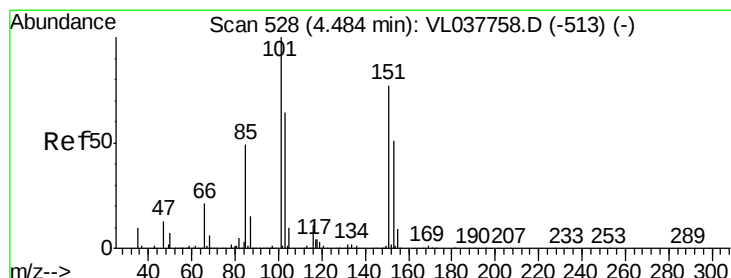
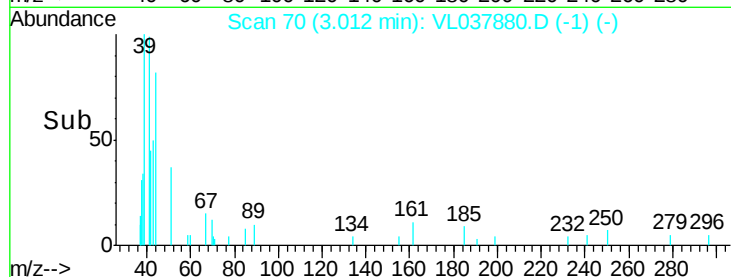
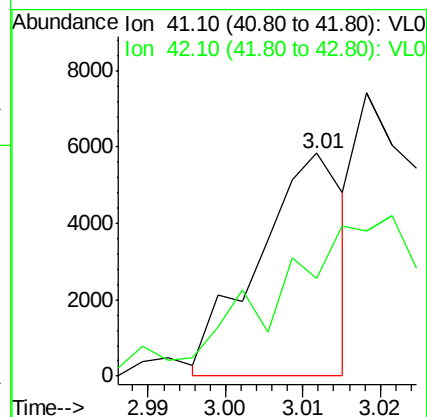
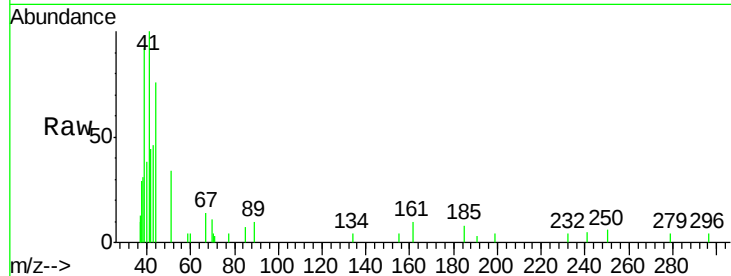
Acq: 20 Oct 2021 10:11 CAN 10281

Tgt Ion: 41 Resp: 4516

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.029 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.01 min

Lab File: VL037880.D

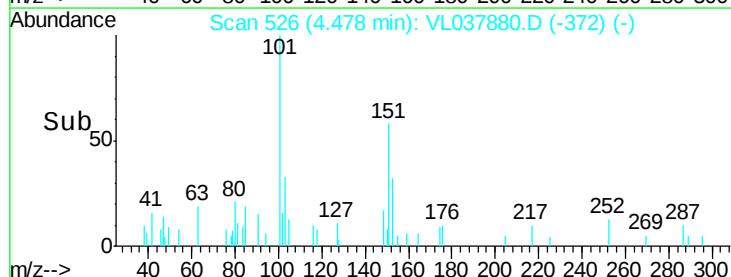
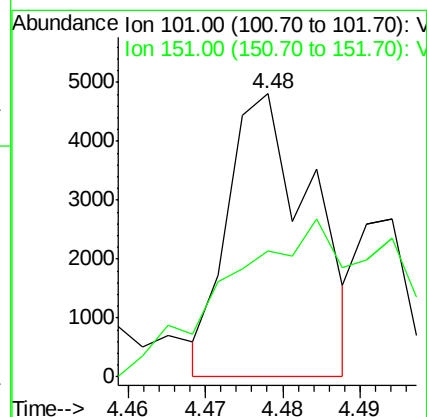
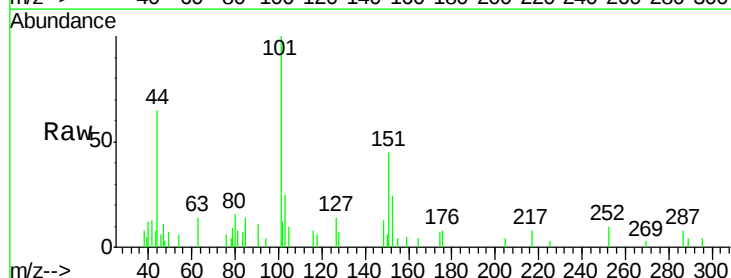
Acq: 20 Oct 2021 10:11

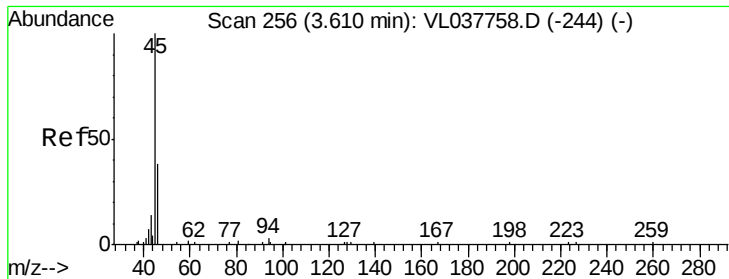
Tgt Ion: 101 Resp: 3614

Ion Ratio Lower Upper

101 100

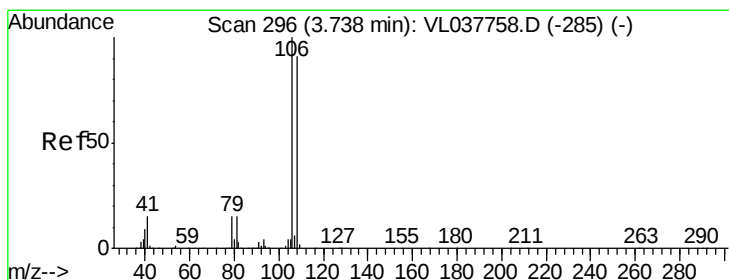
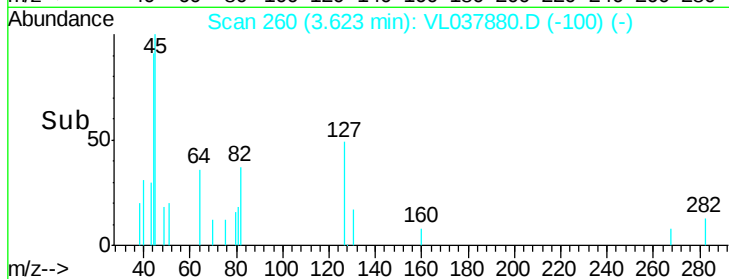
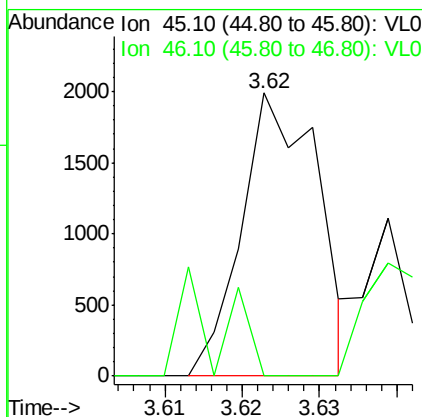
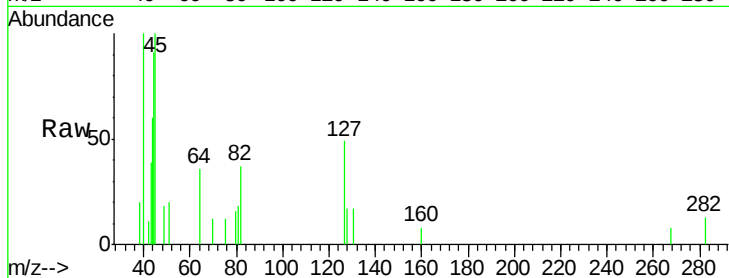
151 125.9 62.9 94.3#





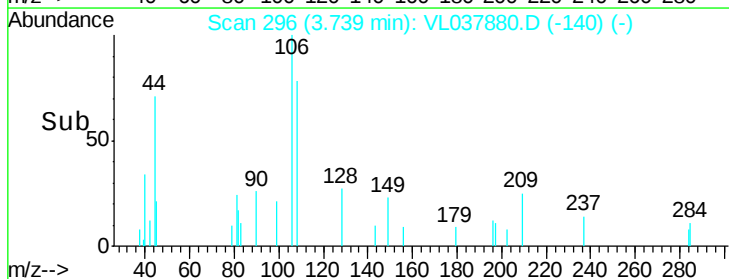
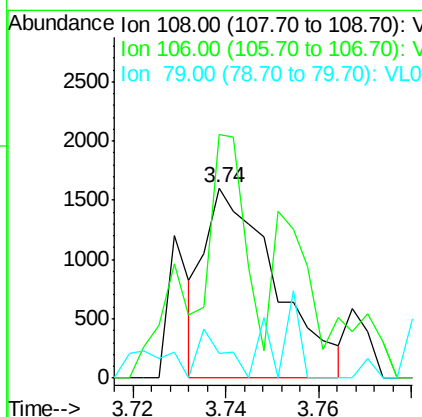
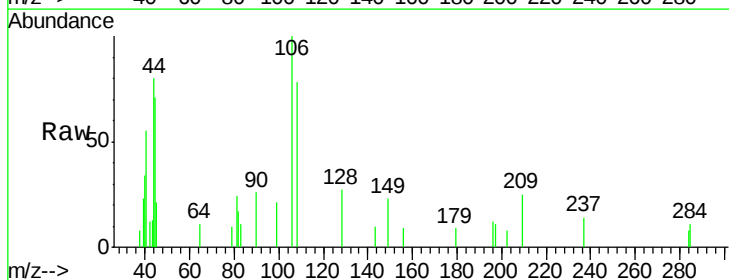
#13
Ethanol
Concen: 0.207 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Oct 2021 10:11

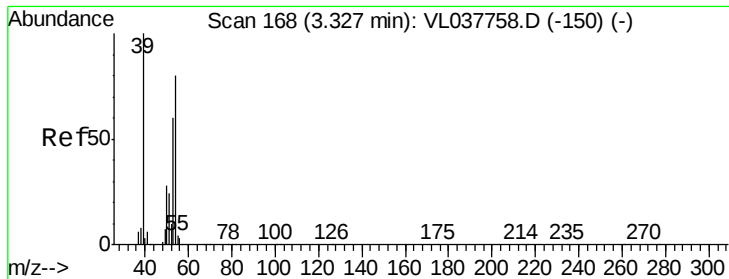
Tgt Ion: 45 Resp: 1365
Ion Ratio Lower Upper
45 100
46 19.7 20.2 81.0#



#14
Bromoethene
Concen: 0.031 ppbv
RT: 3.74 min Scan# 296
Delta R.T. 0.00 min
Lab File: VL037880.D
Acq: 20 Oct 2021 10:11

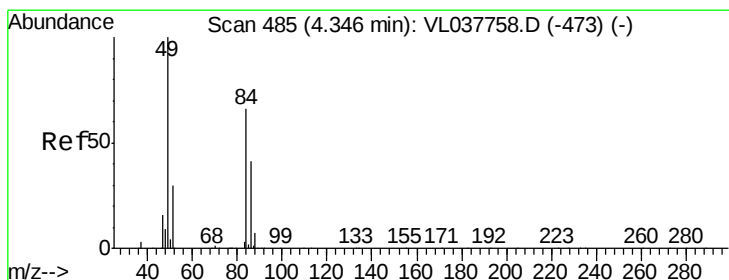
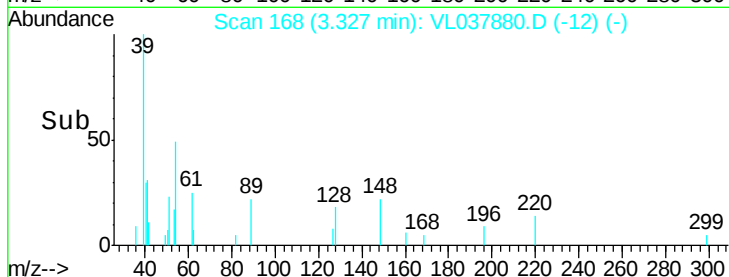
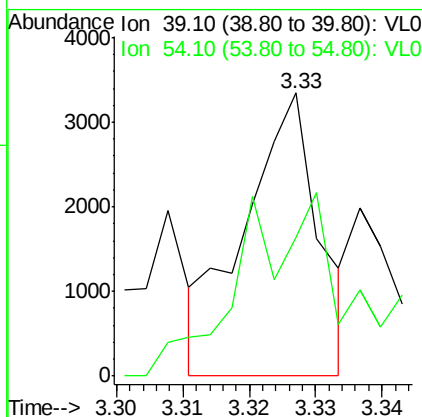
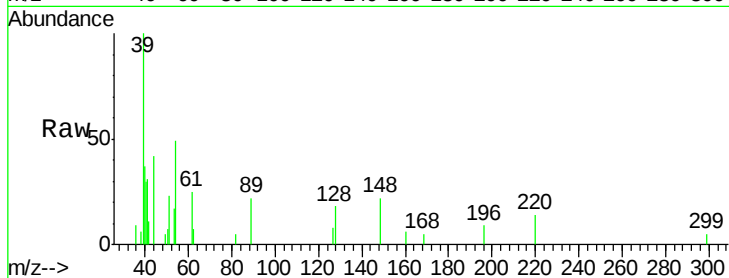
Tgt Ion: 108 Resp: 1706
Ion Ratio Lower Upper
108 100
106 154.2 91.9 137.9#
79 0.0 13.9 20.9#





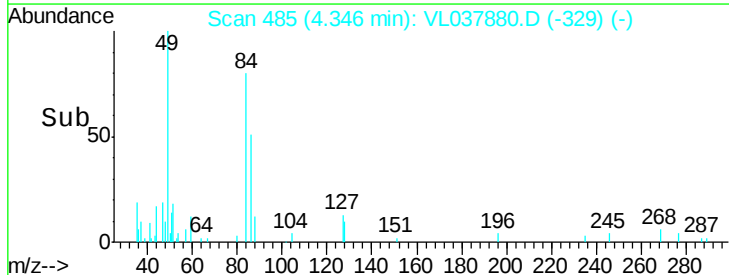
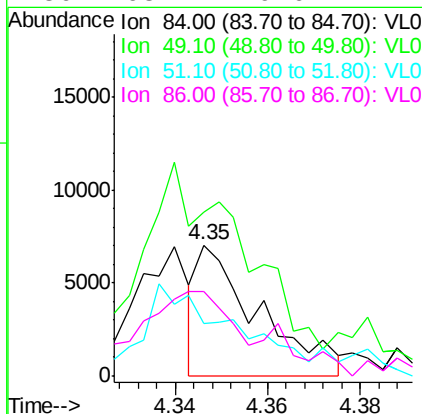
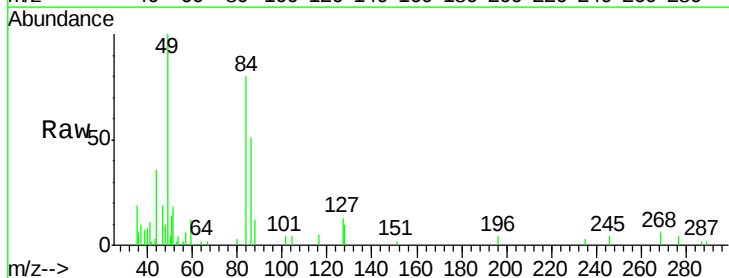
#16
 1,3-Butadiene
 Concen: 0.035 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Oct 2021 10:11

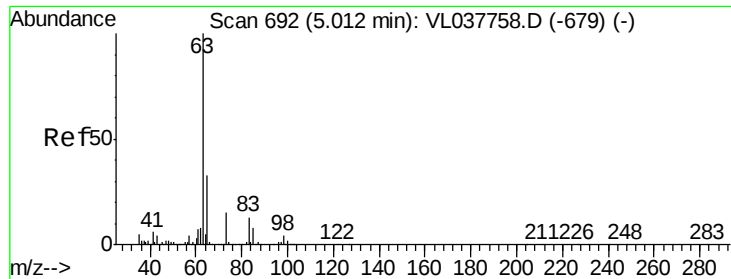
Tgt Ion: 39 Resp: 2610
 Ion Ratio Lower Upper
 39 100
 54 101.8 61.7 92.5#



#20
 Methylene Chloride
 Concen: 0.124 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VL037880.D
 Acq: 20 Oct 2021 10:11

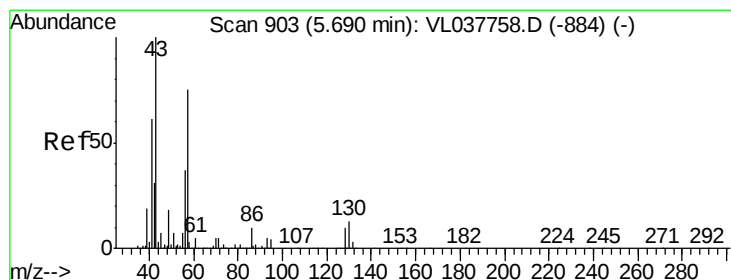
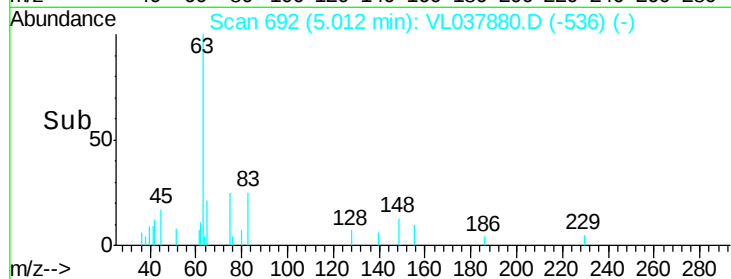
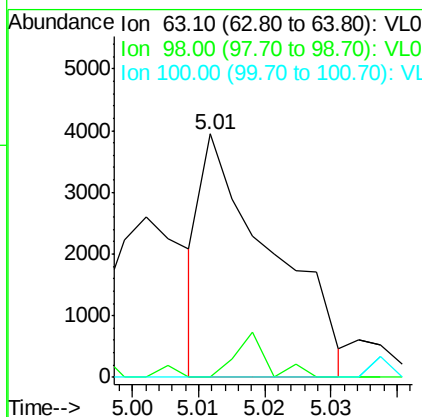
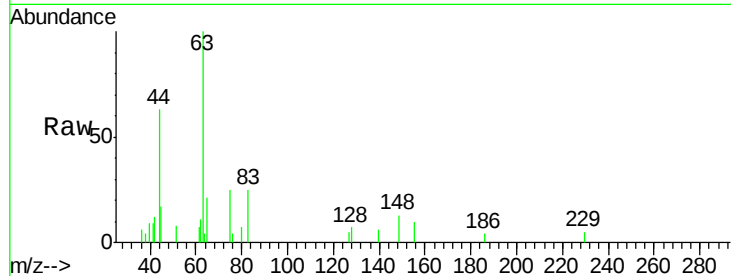
Tgt Ion: 84 Resp: 6423
 Ion Ratio Lower Upper
 84 100
 49 108.6 120.7 181.1#
 51 34.4 36.2 54.4#
 86 63.2 49.6 74.4





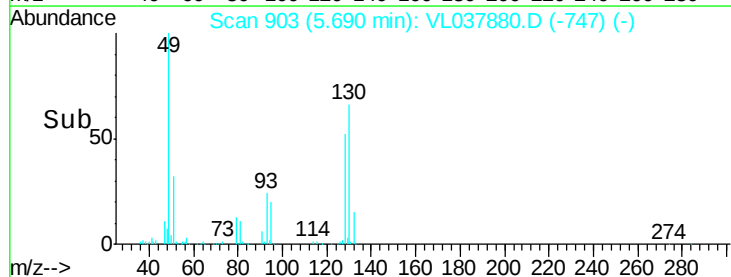
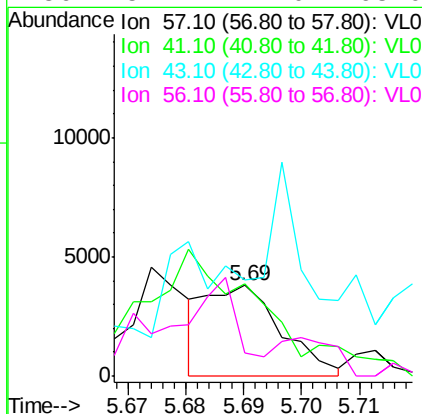
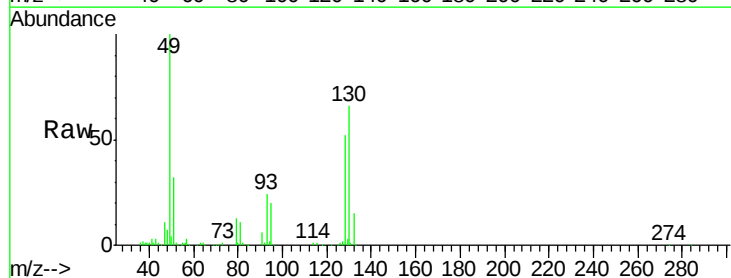
#24
 1,1-Dichloroethane
 Concen: 0.026 ppbv
 RT: 5.01 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Oct 2021 10:11

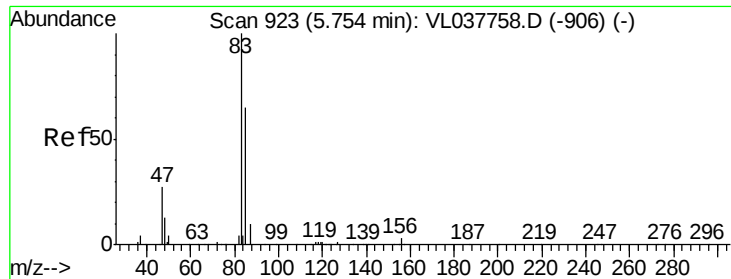
Tgt Ion:	63	Resp:	2900
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.3	6.9#
100	0.0	1.1	3.1#



#26
 Hexane
 Concen: 0.024 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.00 min
 Lab File: VL037880.D
 Acq: 20 Oct 2021 10:11

Tgt Ion:	57	Resp:	3411
Ion Ratio	Lower	Upper	
57	100		
41	263.9	69.6	104.4#
43	484.0	171.4	257.0#
56	152.7	42.0	63.0#





#29

Chloroform

Concen: 0.031 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

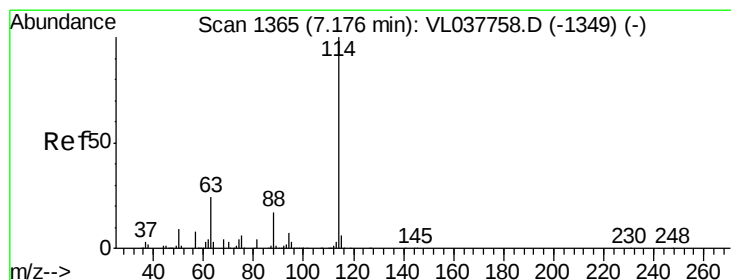
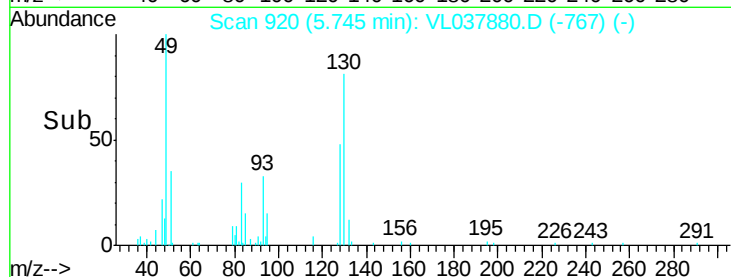
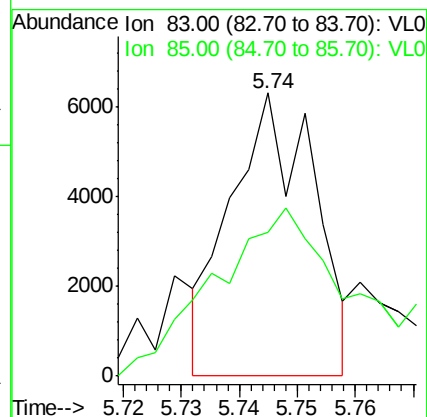
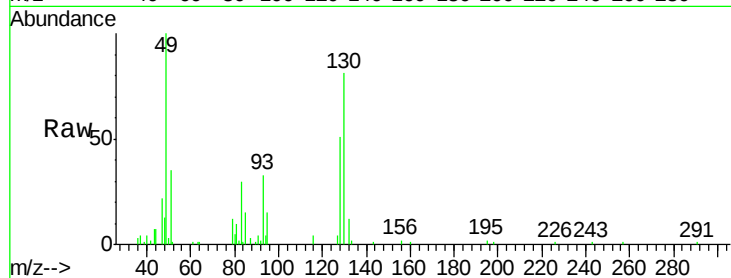
Acq: 20 Oct 2021 10:11 CAN 10281

Tgt Ion: 83 Resp: 6250

Ion Ratio Lower Upper

83 100

85 32.8 51.8 77.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL037880.D

Acq: 20 Oct 2021 10:11

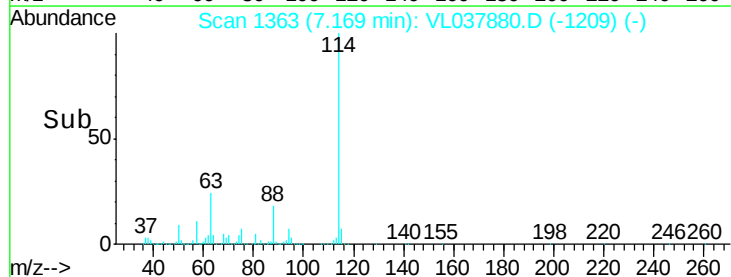
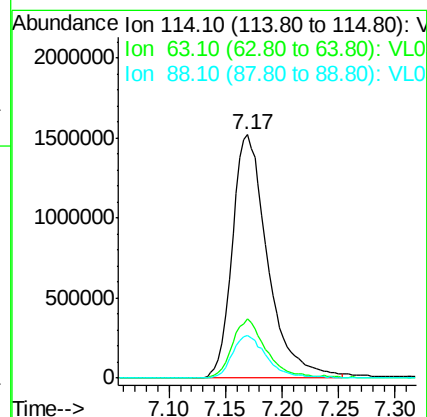
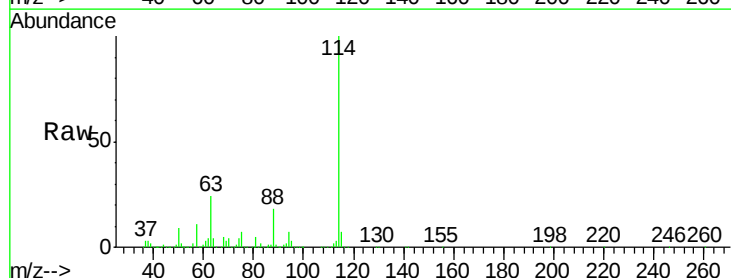
Tgt Ion: 114 Resp: 3317492

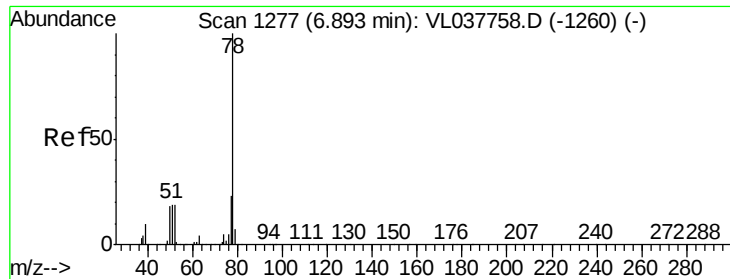
Ion Ratio Lower Upper

114 100

63 23.7 19.4 29.2

88 17.4 14.4 21.6





#36

Benzene

Concen: 0.021 ppbv

RT: 6.89 Instrument: MSVOA_L

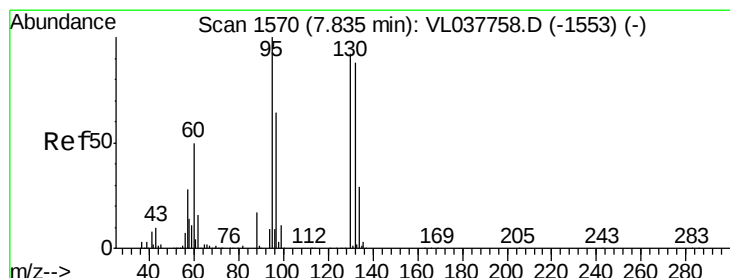
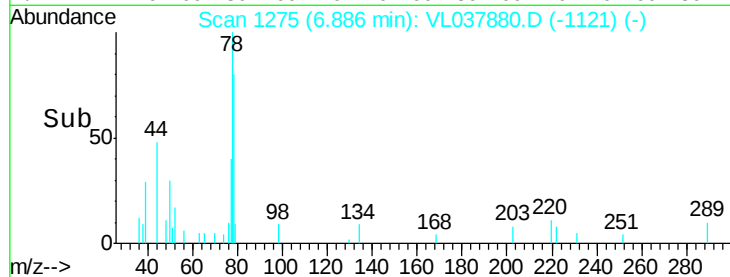
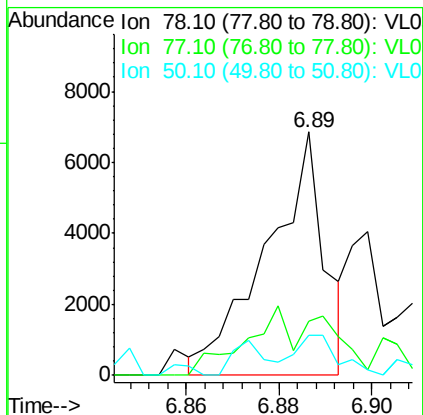
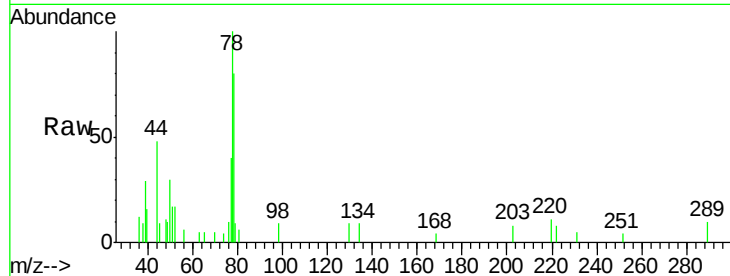
Delta R.T.

Lab File: ClientSampleId:

Acq: 20 Oct 2021 10:11

Tgt Ion: 78 Resp: 5941

Ion	Ratio	Lower	Upper
78	100		
77	84.2	18.8	28.2#
50	13.5	14.7	22.1#



#38

Trichloroethene

Concen: 0.022 ppbv

RT: 7.83 min Scan# 1569

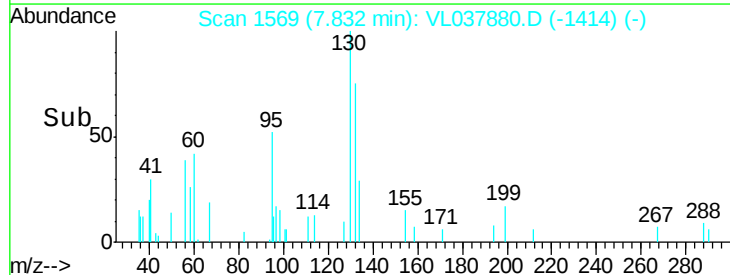
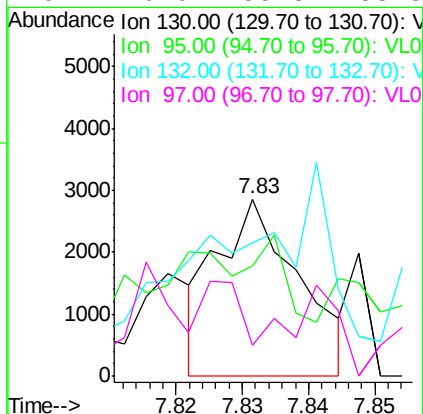
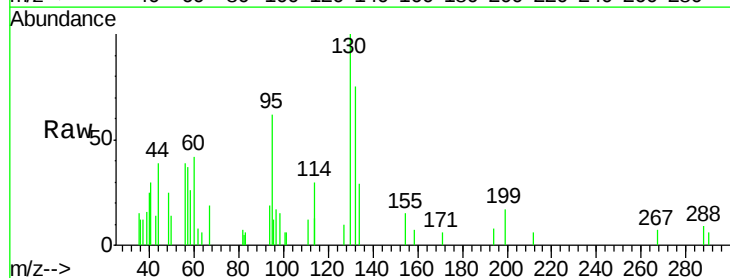
Delta R.T. -0.00 min

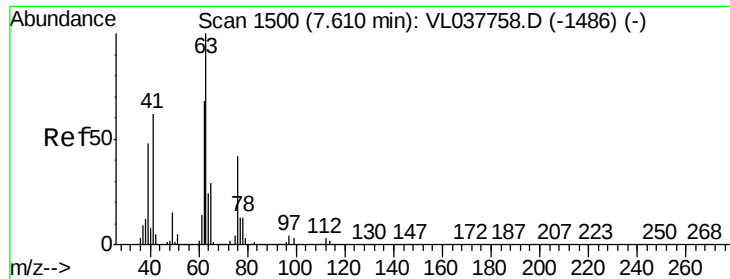
Lab File: VL037880.D

Acq: 20 Oct 2021 10:11

Tgt Ion: 130 Resp: 2433

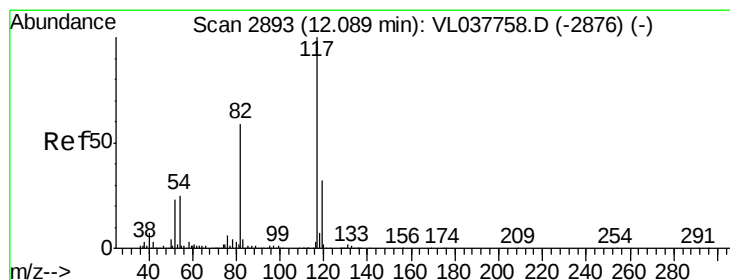
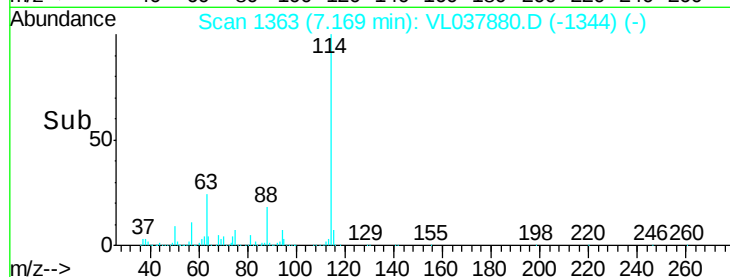
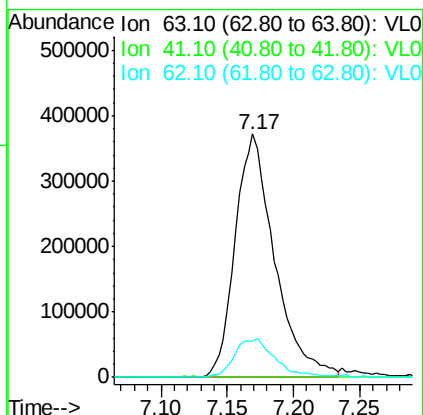
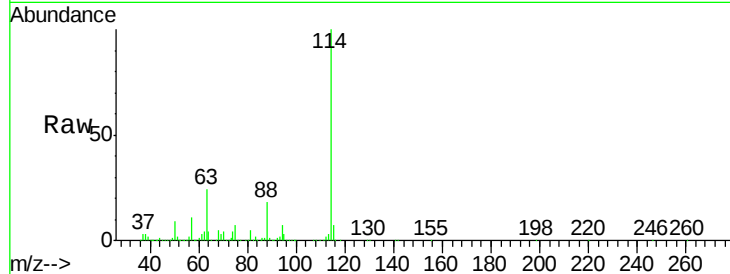
Ion	Ratio	Lower	Upper
130	100		
95	10.3	87.4	131.0#
132	39.0	76.8	115.2#
97	0.0	55.8	83.8#





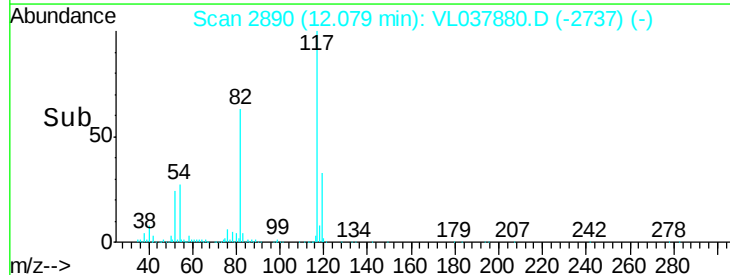
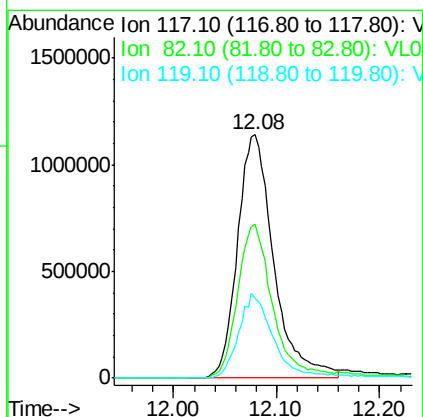
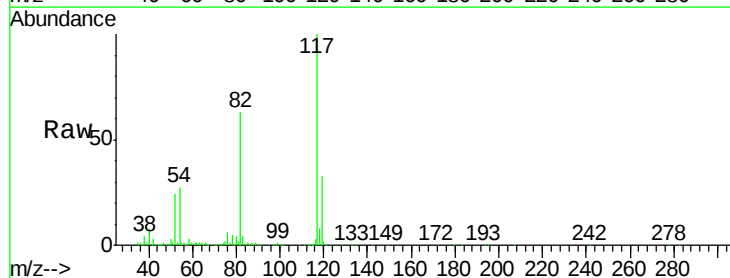
#39
 1,2-Dichloropropane
 Concen: 7.208 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Oct 2021 10:11

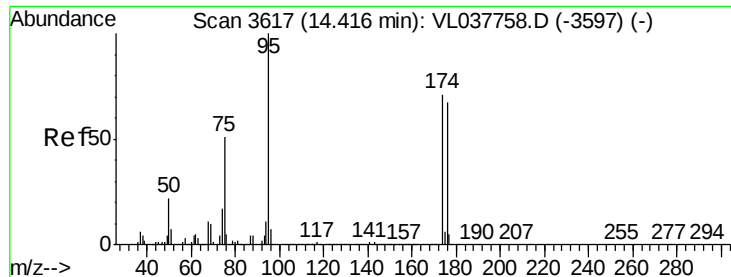
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.2	49.8	74.6#
62	14.8	54.6	82.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2890
 Delta R.T. -0.01 min
 Lab File: VL037880.D
 Acq: 20 Oct 2021 10:11

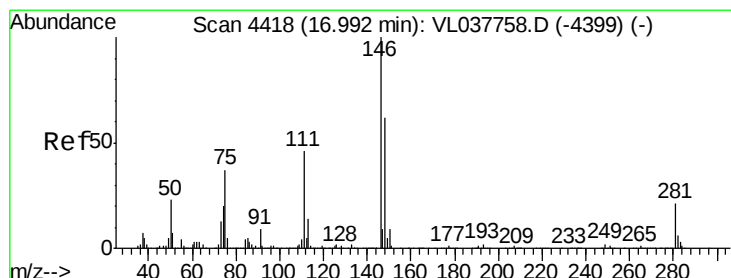
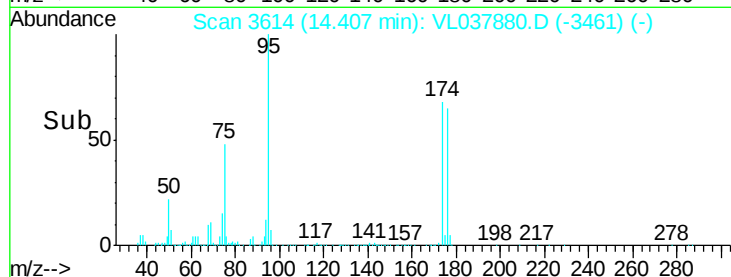
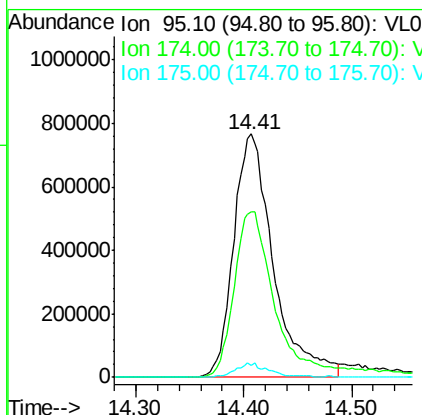
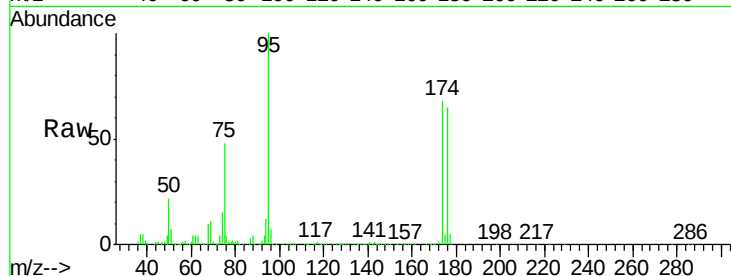
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.5	52.2	78.2
119	34.2	26.0	39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.082 ppbv
 RT: 14.41
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Oct 2021 10:11

Tgt Ion: 95 Resp: 1968730
 Ion Ratio Lower Upper
 95 100
 174 74.7 57.8 86.6
 175 5.2 4.7 7.1



#75
 1,3-Dichlorobenzene
 Concen: 0.023 ppbv
 RT: 16.99 min Scan# 4416
 Delta R.T. -0.01 min
 Lab File: VL037880.D
 Acq: 20 Oct 2021 10:11

Tgt Ion: 146 Resp: 4747
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.8 68.4#
 148 162.0 32.8 98.3#

