

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102521\
 Data File : VL037904.D
 Acq On : 25 Oct 2021 21:46
 Operator : SY/AP
 Sample : M4068-15 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2021

Quant Time: Oct 25 23:53:45 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	1453063	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	4146851	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3552146	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2444804	9.84	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

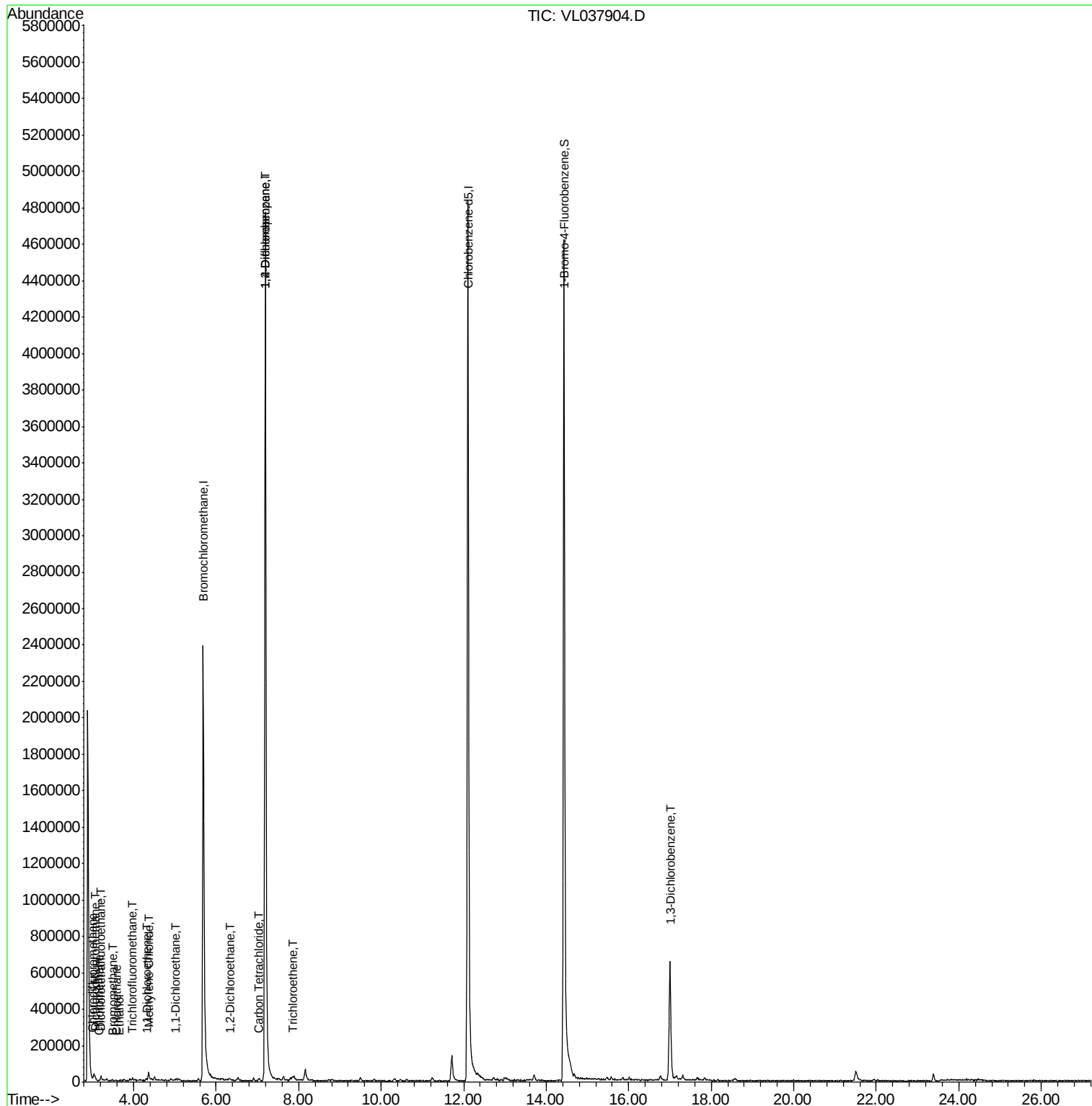
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	10581	0.046	ppbv	90
3) Chlorodifluoromethane	3.00	51	13995	0.050	ppbv	96
4) Chloromethane	3.16	50	3413	0.033	ppbv	95
6) Bromomethane	3.49	94	1328	0.026	ppbv	99
7) Chloroethane	3.57	64	1163	0.034	ppbv #	40
8) Dichlorotetrafluoroethane	3.20	85	10994	0.048	ppbv	93
11) Trichlorofluoromethane	3.97	101	8377	0.040	ppbv #	74
13) Ethanol	3.65	45	1653	0.197	ppbv	63
18) 1,1-Dichloroethene	4.31	96	2691	0.038	ppbv #	62
20) Methylene Chloride	4.36	84	8661	0.131	ppbv #	94
24) 1,1-Dichloroethane	5.02	63	3244	0.023	ppbv #	82
35) Carbon Tetrachloride	7.03	117	5310	0.023	ppbv #	29
37) 1,2-Dichloroethane	6.33	62	4293	0.026	ppbv #	78
38) Trichloroethene	7.85	130	3642	0.026	ppbv #	58
39) 1,2-Dichloropropane	7.19	63	948764	7.121	ppbv #	27
75) 1,3-Dichlorobenzene	17.01	146	5649	0.021	ppbv #	23

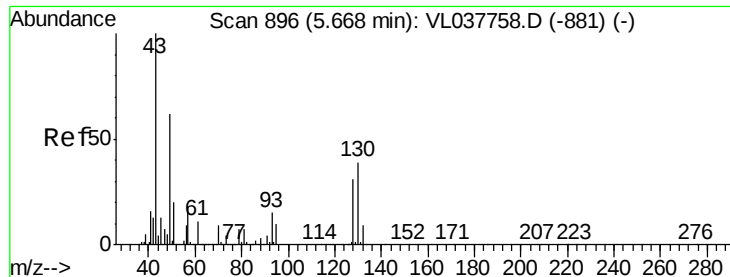
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL102521\
Data File : VL037904.D
Acq On    : 25 Oct 2021   21:46
Operator  : SY/AP
Sample    : M4068-15 0.03
Misc      : 400mL/MSV0A_L
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2021

Quant Time: Oct 25 23:53:45 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

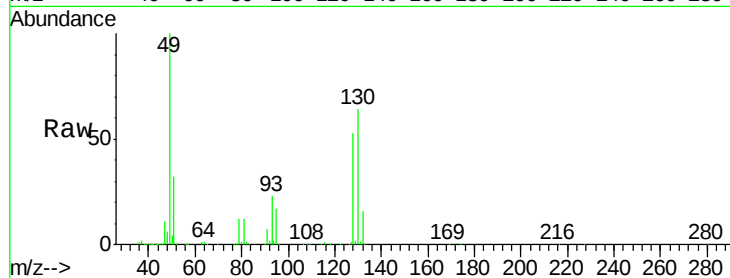
Tgt Ion: 49 Resp: 1453063

Ion Ratio Lower Upper

49 100

128 53.6 27.1 81.3

130 66.7 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

5.68

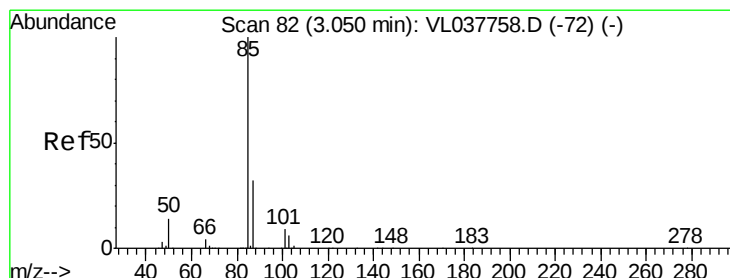
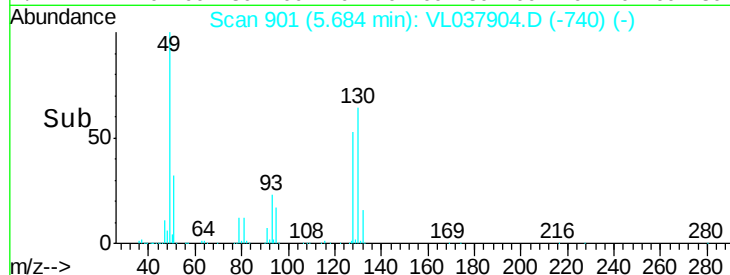
600000

400000

200000

0

Time--> 5.60 5.65 5.70 5.75 5.80



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.02 min

Lab File: VL037904.D

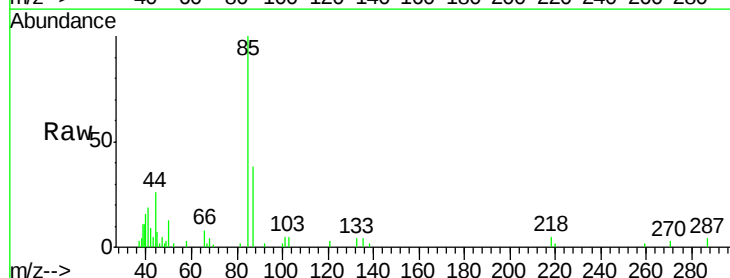
Acq: 25 Oct 2021 21:46

Tgt Ion: 85 Resp: 10581

Ion Ratio Lower Upper

85 100

87 37.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

12000

10000

8000

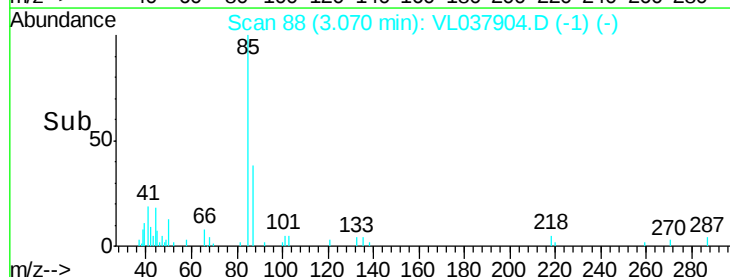
6000

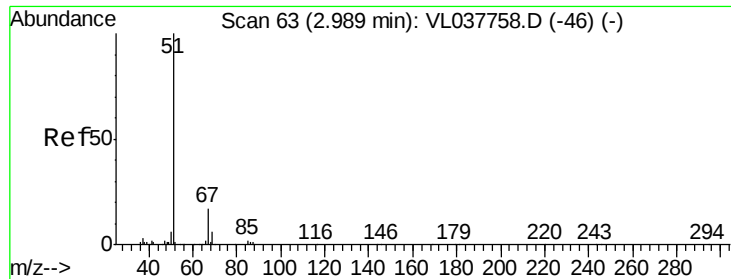
4000

2000

0

Time--> 3.02 3.04 3.06 3.08





#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

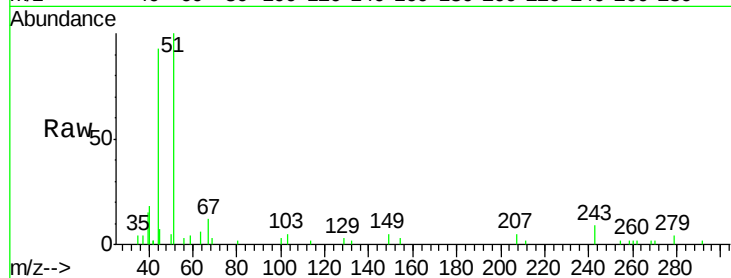
Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

Tgt Ion: 51 Resp: 13995

Ion Ratio Lower Upper

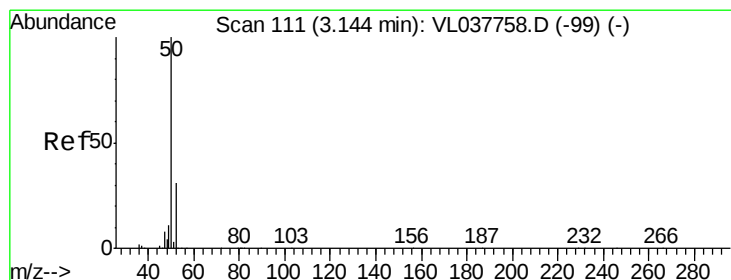
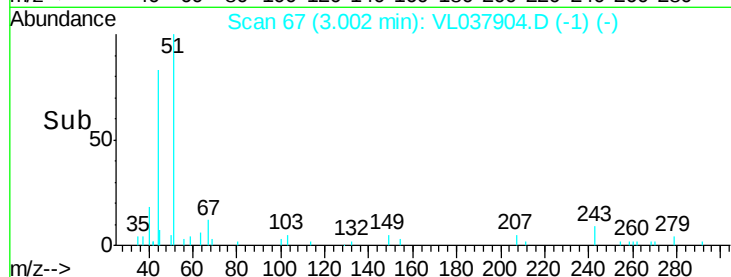
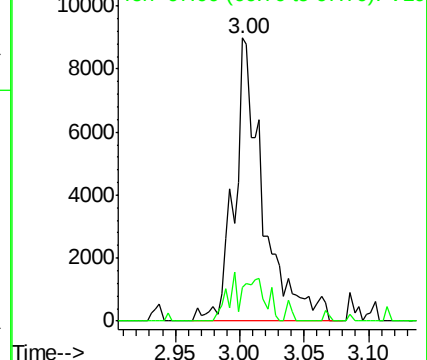
51 100

67 18.6 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: 0.033 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL037904.D

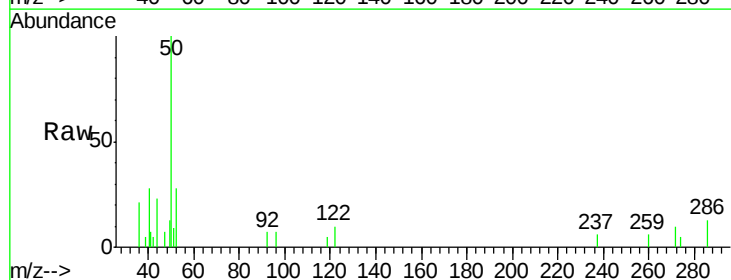
Acq: 25 Oct 2021 21:46

Tgt Ion: 50 Resp: 3413

Ion Ratio Lower Upper

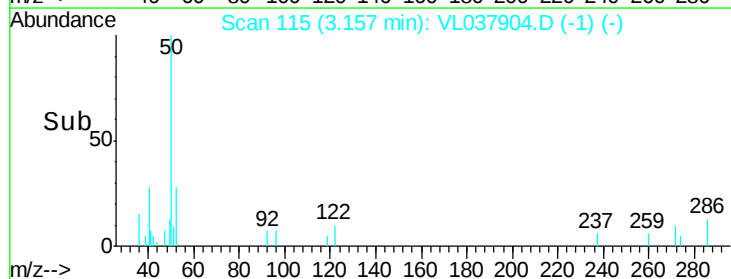
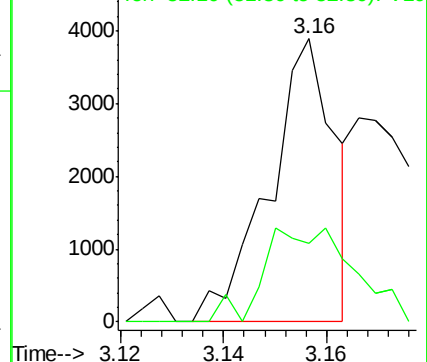
50 100

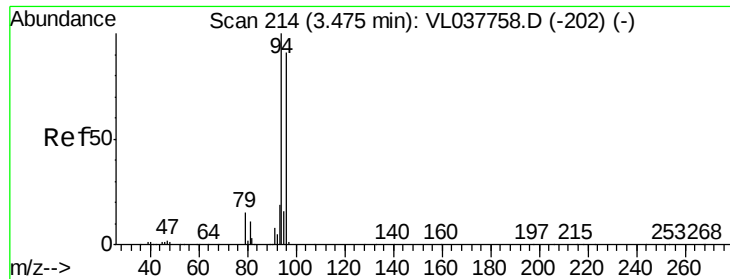
52 27.8 24.4 36.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.026 ppbv

RT: 3.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

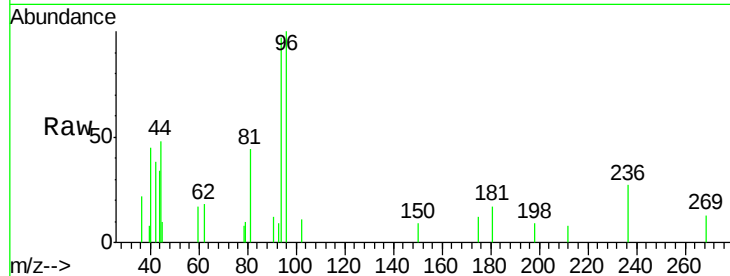
Acq: 25 Oct 2021 21:40 MDL-AIR-03-OT4-2021

Tgt Ion: 94 Resp: 1328

Ion Ratio Lower Upper

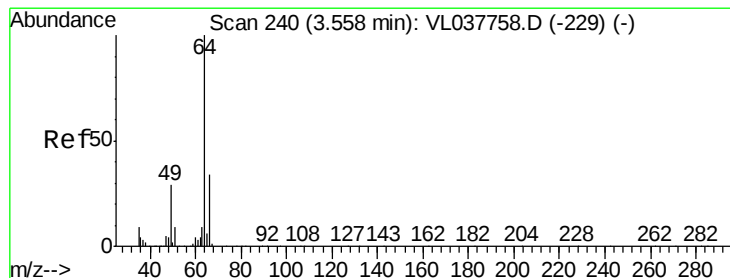
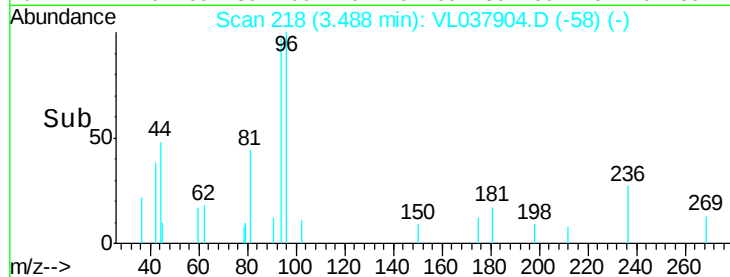
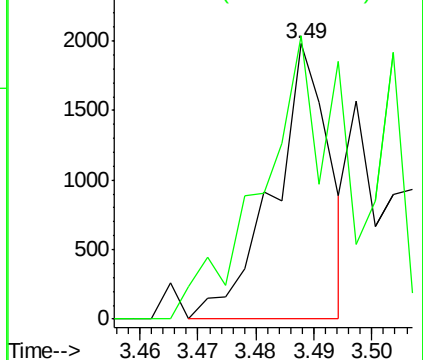
94 100

96 91.1 72.5 108.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.034 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.01 min

Lab File: VL037904.D

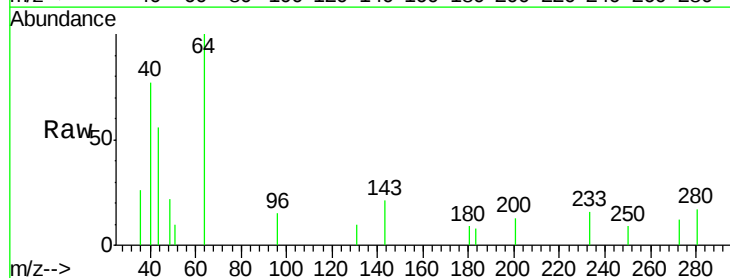
Acq: 25 Oct 2021 21:46

Tgt Ion: 64 Resp: 1163

Ion Ratio Lower Upper

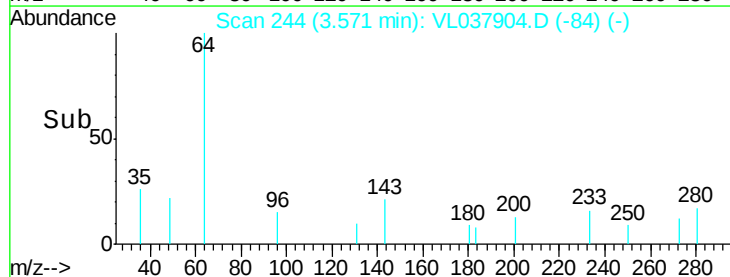
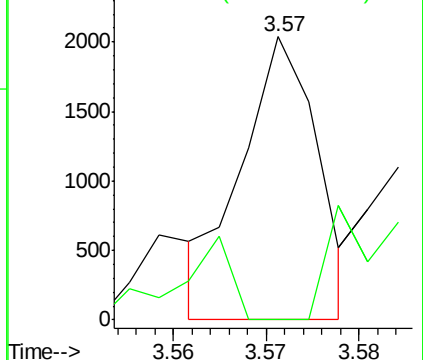
64 100

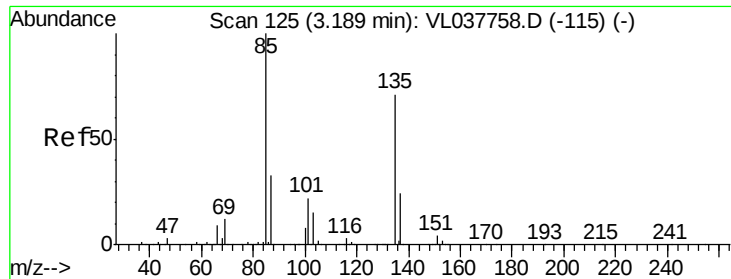
66 0.0 27.5 41.3#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.048 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

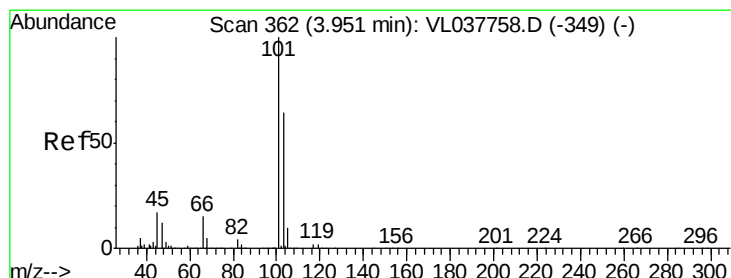
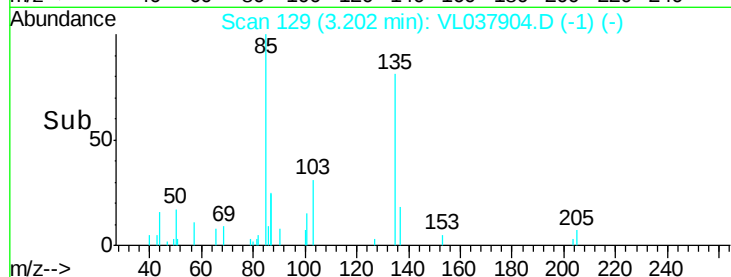
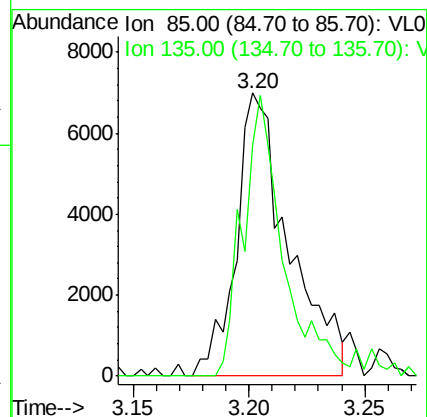
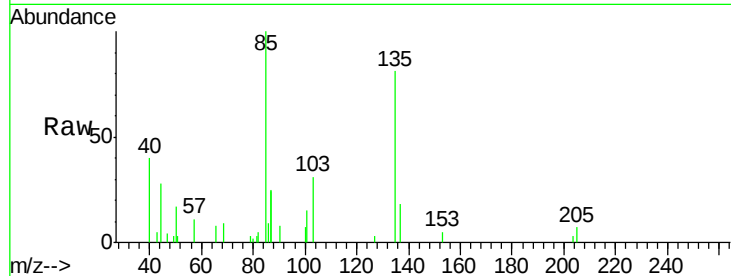
Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

Tgt Ion: 85 Resp: 10994

Ion Ratio Lower Upper

85 100

135 80.5 59.5 89.3



#11

Trichlorofluoromethane

Concen: 0.040 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037904.D

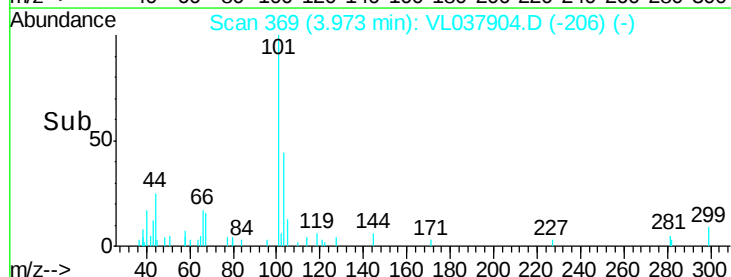
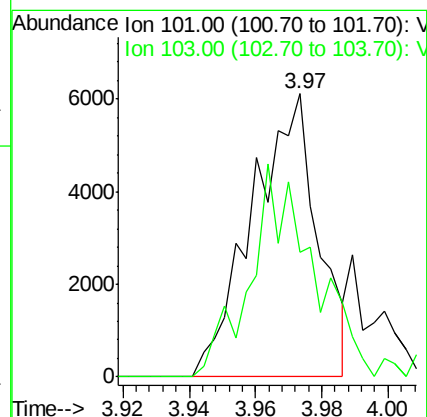
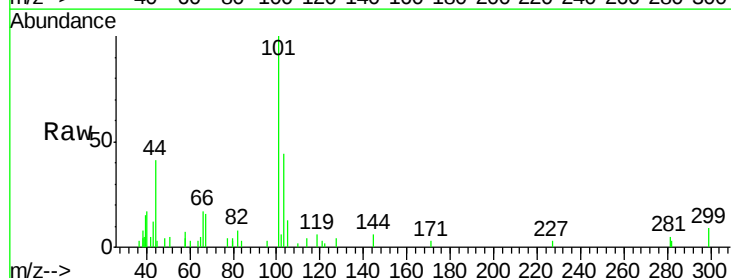
Acq: 25 Oct 2021 21:46

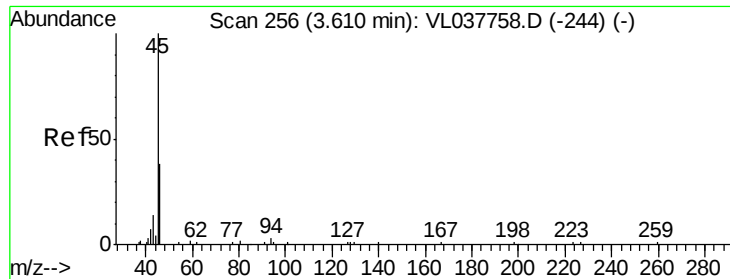
Tgt Ion: 101 Resp: 8377

Ion Ratio Lower Upper

101 100

103 44.2 51.5 77.3#





#13

Ethanol

Concen: 0.197 ppbv

RT: 3.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

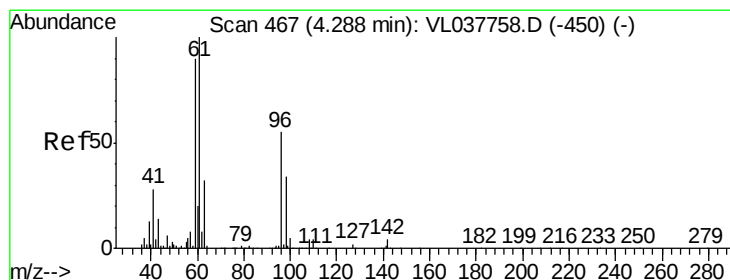
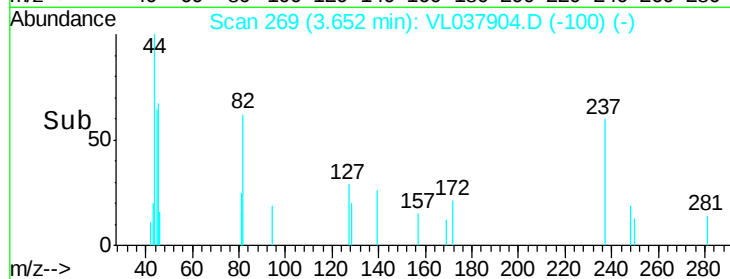
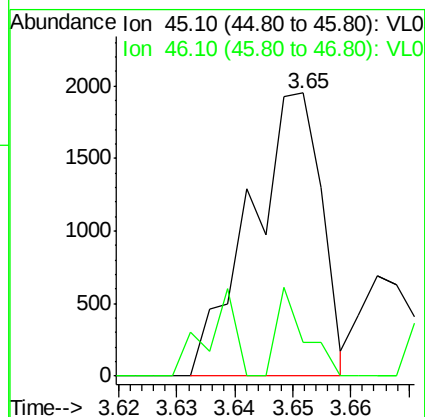
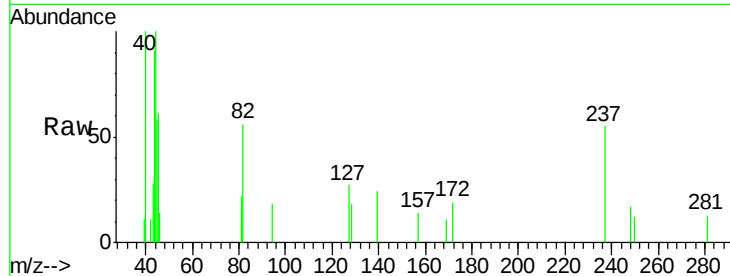
Acq: 25 Oct 2021 21:40 MDL-AIR-03-OT4-2021

Tgt Ion: 45 Resp: 1653

Ion Ratio Lower Upper

45 100

46 25.2 20.2 81.0



#18

1,1-Dichloroethene

Concen: 0.038 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL037904.D

Acq: 25 Oct 2021 21:46

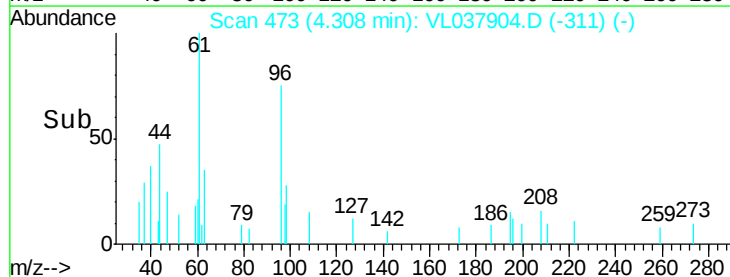
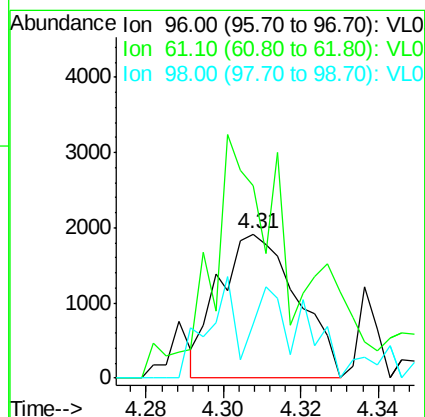
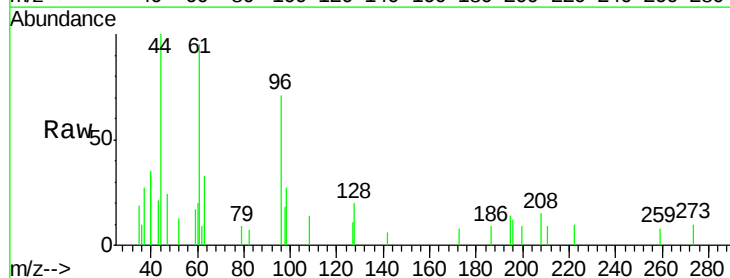
Tgt Ion: 96 Resp: 2691

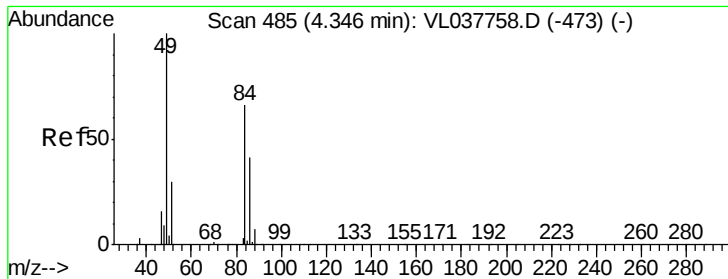
Ion Ratio Lower Upper

96 100

61 126.2 146.2 219.4#

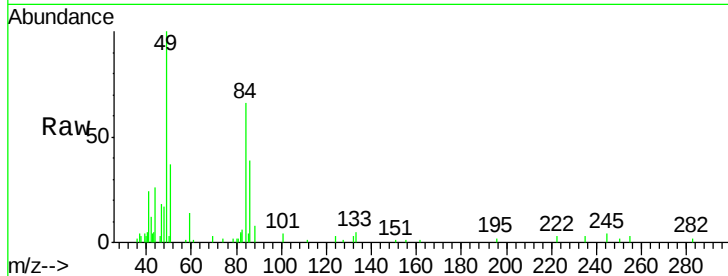
98 37.8 50.0 75.0#



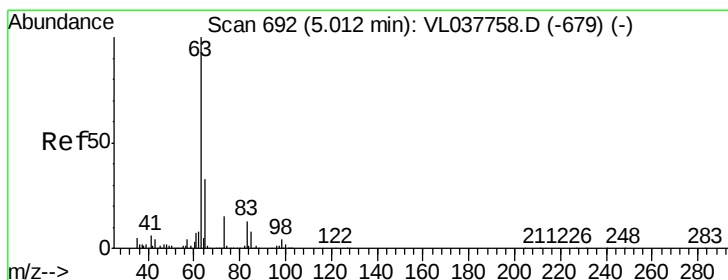
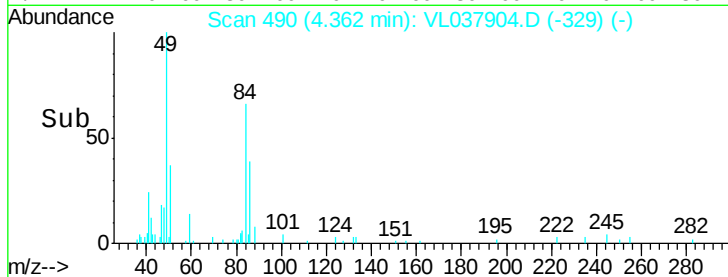
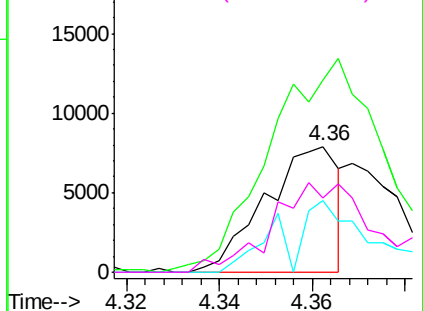


#20
Methylene Chloride
Concen: 0.131 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

Tgt Ion:	84	Resp:	8661
Ion	Ratio	Lower	Upper
84	100		
49	146.8	120.7	181.1
51	57.2	36.2	54.4#
86	59.6	49.6	74.4

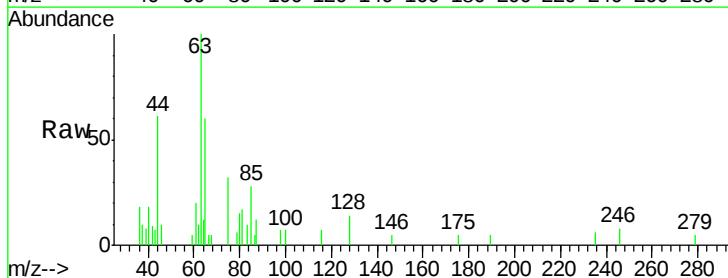


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

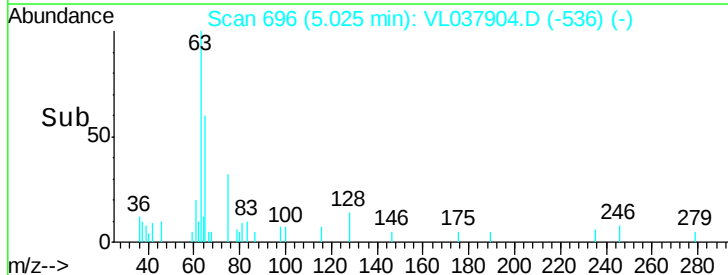
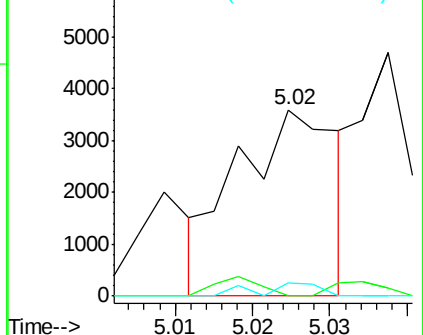


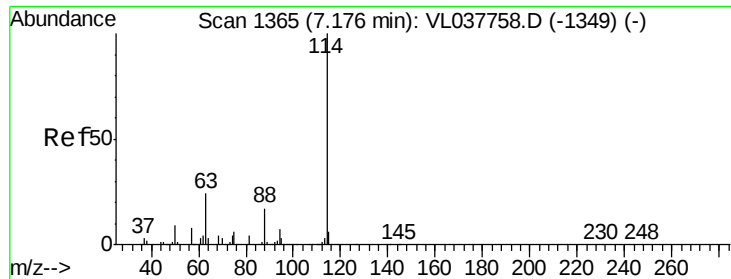
#24
1,1-Dichloroethane
Concen: 0.023 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL037904.D
Acq: 25 Oct 2021 21:46

Tgt Ion:	63	Resp:	3244
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.9#
100	11.9	1.1	3.1#



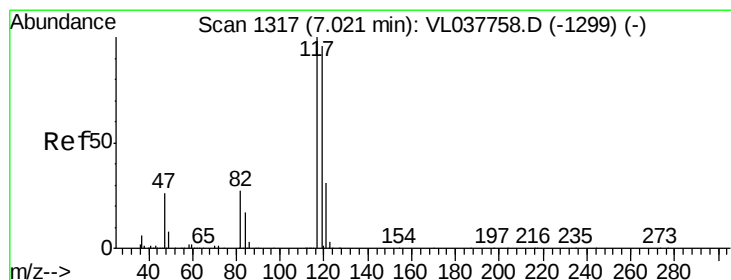
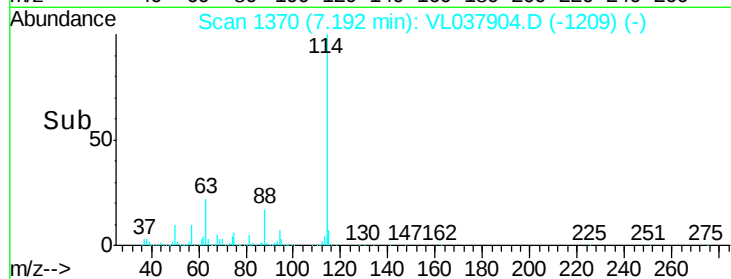
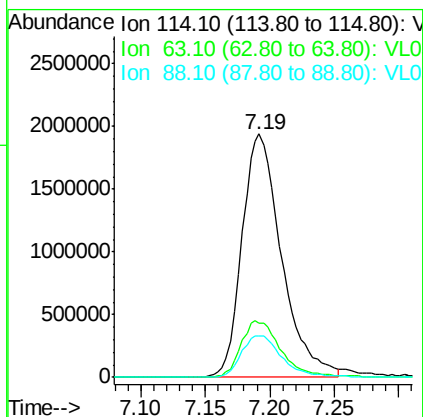
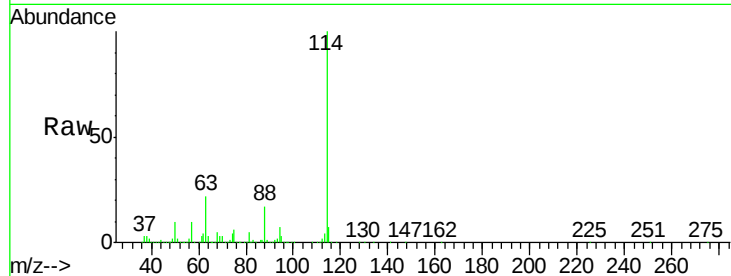
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





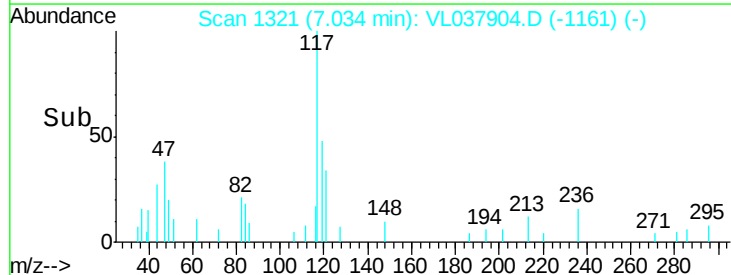
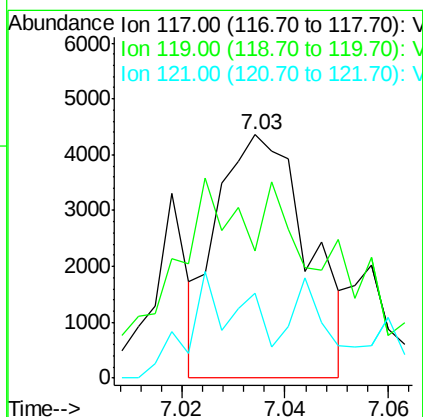
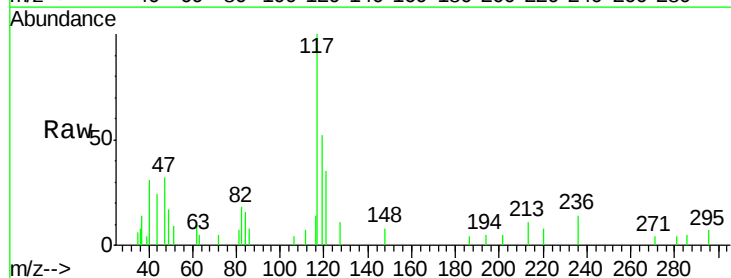
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 Instrument : MSVOA_L
 Delta R.T. ClientSampleId :
 Lab File: MDL-AIR-03-QT4-2021
 Acq: 25 Oct 2021 21:40

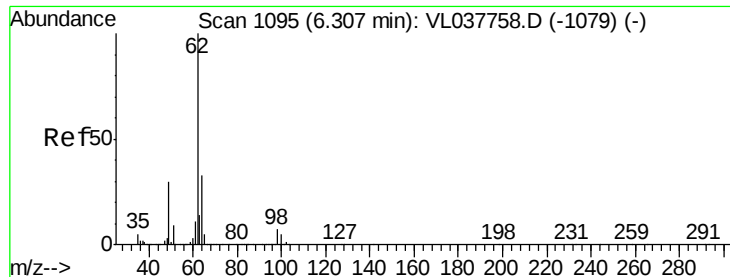
Tgt Ion:114 Resp: 4146851
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.4 29.2
 88 18.0 14.4 21.6



#35
 Carbon Tetrachloride
 Concen: 0.023 ppbv
 RT: 7.03 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VL037904.D
 Acq: 25 Oct 2021 21:46

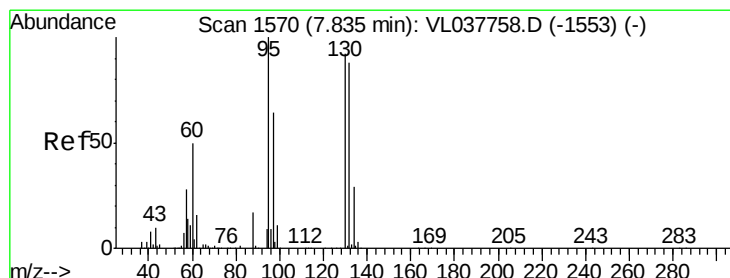
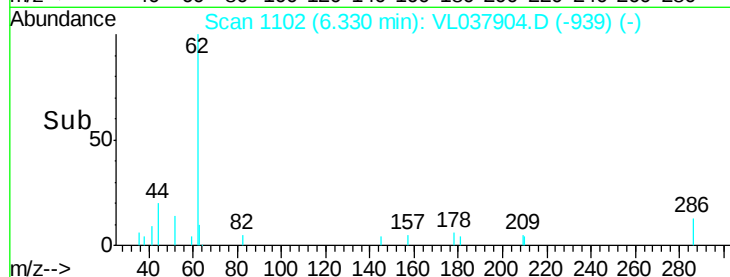
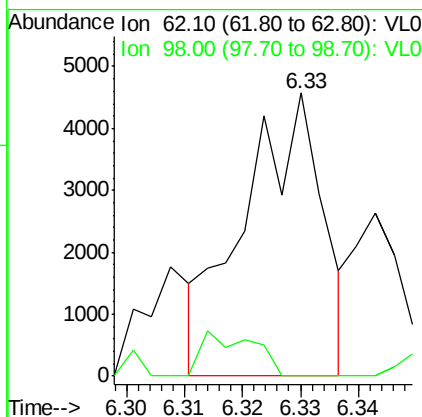
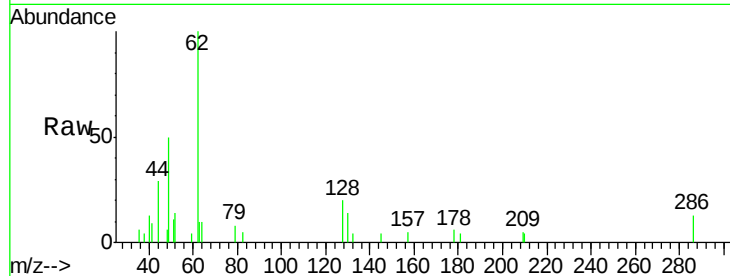
Tgt Ion:117 Resp: 5310
 Ion Ratio Lower Upper
 117 100
 119 8.4 76.5 114.7#
 121 38.9 24.9 37.3#





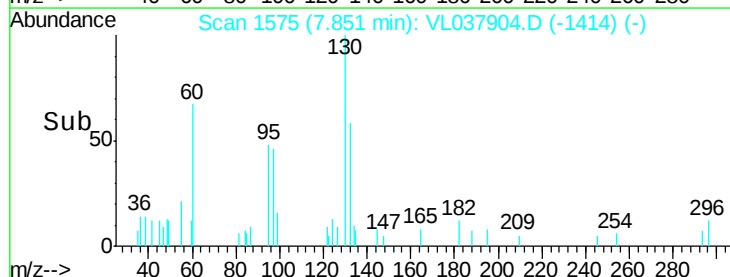
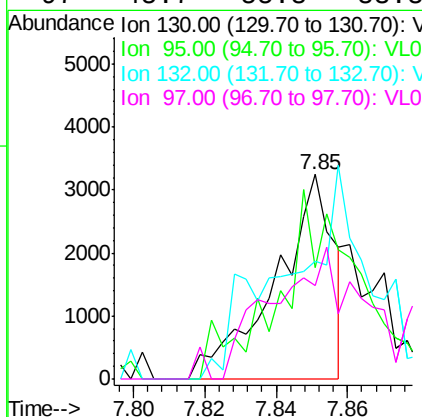
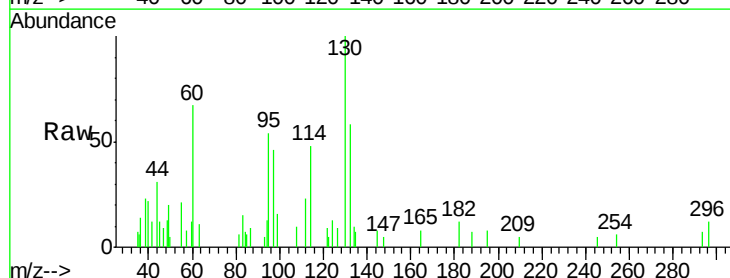
#37
 1,2-Dichloroethane
 Concen: 0.026 ppbv
 RT: 6.33 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: MDL-AIR-03-OT4-2021
 Acq: 25 Oct 2021 21:40

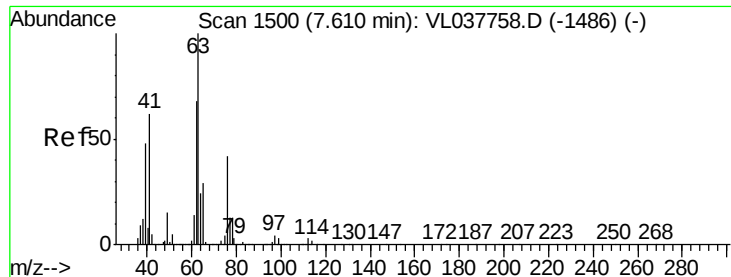
Tgt Ion: 62 Resp: 4293
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.1 9.1#



#38
 Trichloroethene
 Concen: 0.026 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.02 min
 Lab File: VL037904.D
 Acq: 25 Oct 2021 21:46

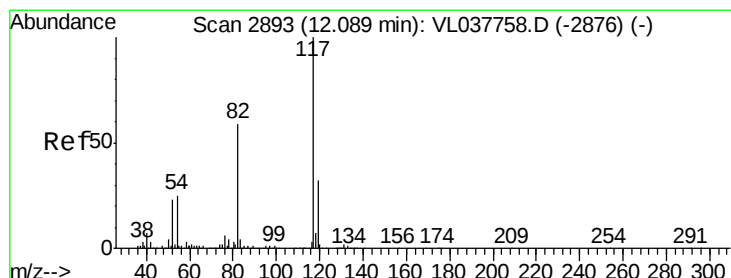
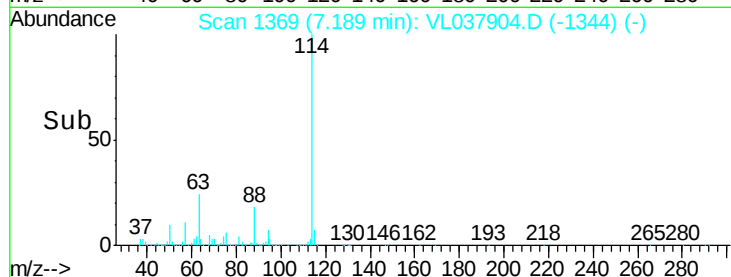
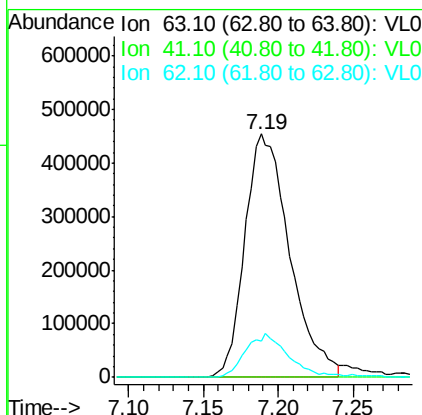
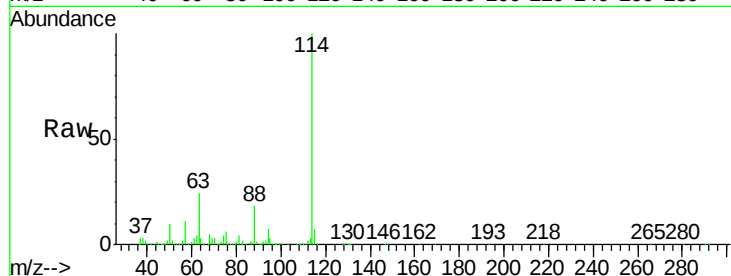
Tgt Ion: 130 Resp: 3642
 Ion Ratio Lower Upper
 130 100
 95 54.3 87.4 131.0#
 132 57.8 76.8 115.2#
 97 45.7 55.8 83.8#





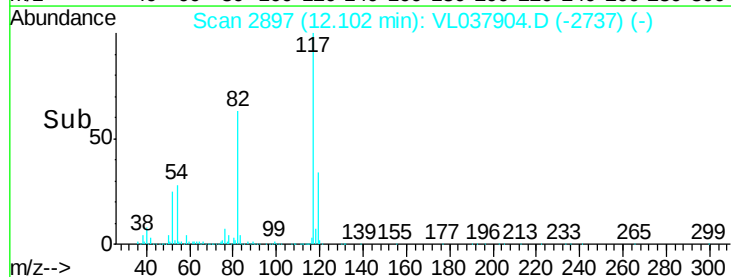
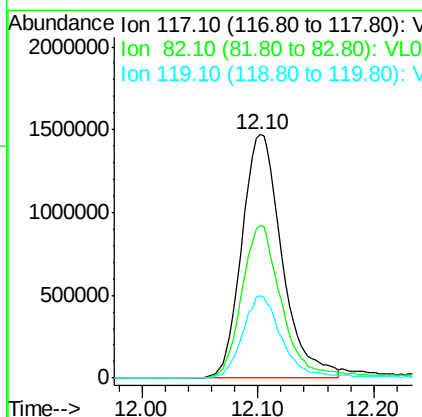
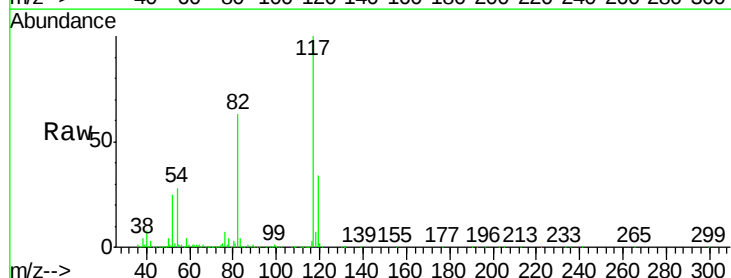
#39
 1,2-Dichloropropane
 Concen: 7.121 ppbv
 RT: 7.19
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Oct 2021 21:40

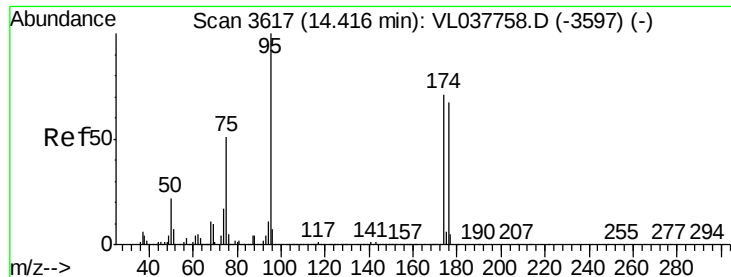
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	49.8	74.6#
62	14.8	54.6	82.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2897
 Delta R.T.: 0.01 min
 Lab File: VL037904.D
 Acq: 25 Oct 2021 21:46

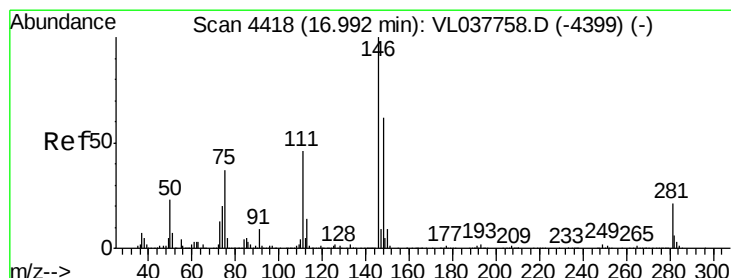
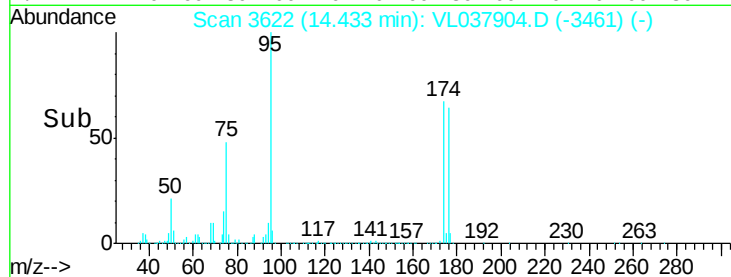
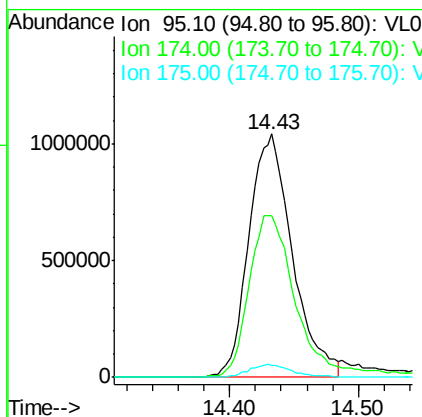
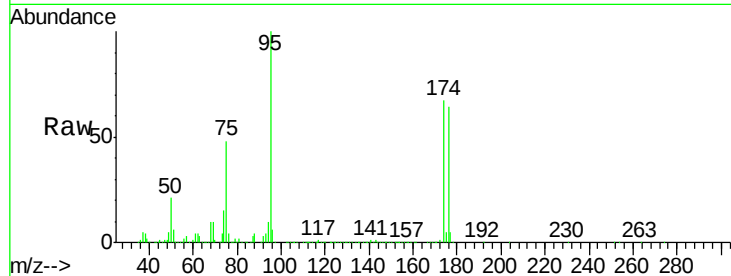
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.4	52.2	78.2
119	34.3	26.0	39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.842 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MDL-AIR-03-QT4-2021
 Acq: 25 Oct 2021 21:46

Tgt Ion: 95 Resp: 2444804
 Ion Ratio Lower Upper
 95 100
 174 75.4 57.8 86.6
 175 5.5 4.7 7.1



#75
 1,3-Dichlorobenzene
 Concen: 0.021 ppbv
 RT: 17.01 min Scan# 4425
 Delta R.T. 0.02 min
 Lab File: VL037904.D
 Acq: 25 Oct 2021 21:46

Tgt Ion: 146 Resp: 5649
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.8 68.4#
 148 0.0 32.8 98.3#

