

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101821\
 Data File : VL037857.D
 Acq On : 18 Oct 2021 18:10
 Operator : SY/AP
 Sample : M4068-14 0.03 LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2021

Quant Time: Oct 19 08:33:55 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	5.67	49	1256706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3680003	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3060182	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2192795	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

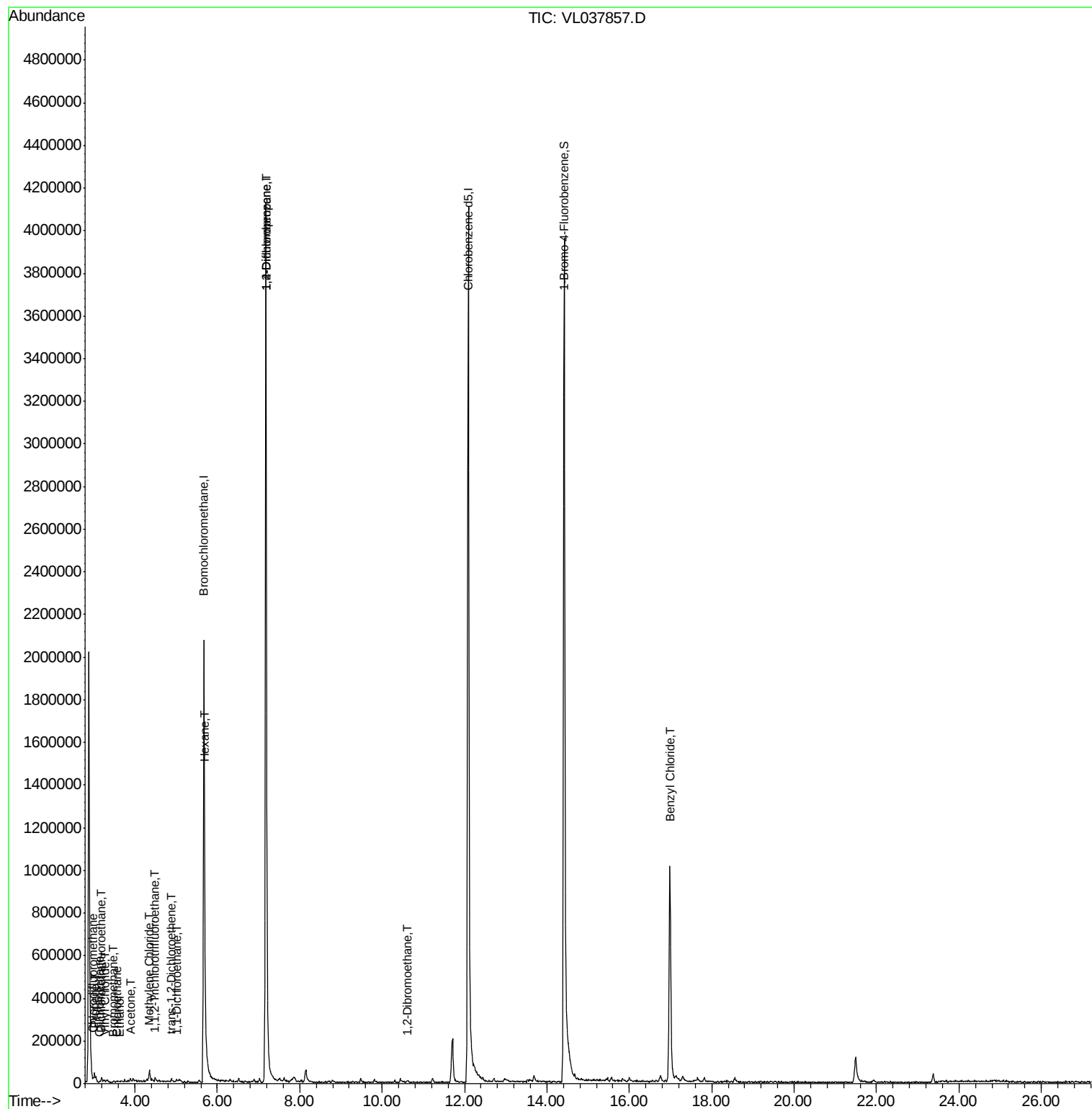
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	14196	0.059	ppbv	99
4) Chloromethane	3.14	50	2453	0.028	ppbv #	79
5) Vinyl Chloride	3.26	62	1645	0.020	ppbv #	65
6) Bromomethane	3.48	94	1081	0.025	ppbv #	4
7) Chloroethane	3.56	64	667	0.022	ppbv #	41
8) Dichlorotetrafluoroethane	3.19	85	7386	0.037	ppbv #	12
9) Propene	3.02	41	6120	0.069	ppbv #	34
12) 1,1,2-Trichlorotrifluoroet	4.49	101	3422	0.025	ppbv #	10
13) Ethanol	3.62	45	516	0.071	ppbv #	27
15) Acetone	3.89	43	9101	0.081	ppbv #	46
20) Methylene Chloride	4.35	84	5191	0.091	ppbv #	40
22) trans-1,2-Dichloroethene	4.89	96	1509	0.024	ppbv #	49
24) 1,1-Dichloroethane	5.01	63	3704	0.030	ppbv #	77
26) Hexane	5.70	57	4497	0.029	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	851030	7.198	ppbv #	27
54) 1,2-Dibromoethane	10.62	107	3835	0.022	ppbv #	62
66) Benzyl Chloride	16.99	91	607	0.030	ppbv #	1

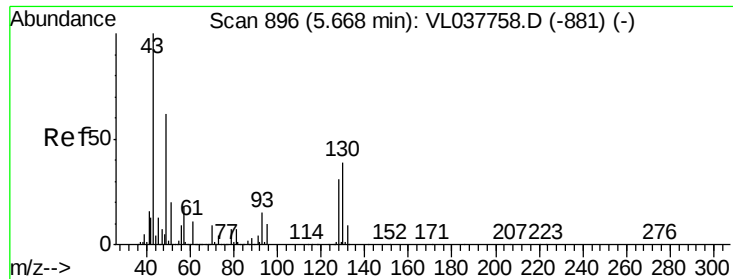
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LOQ-AIR-02-OT4-2021

Acq: 18 Oct 2021 18:10

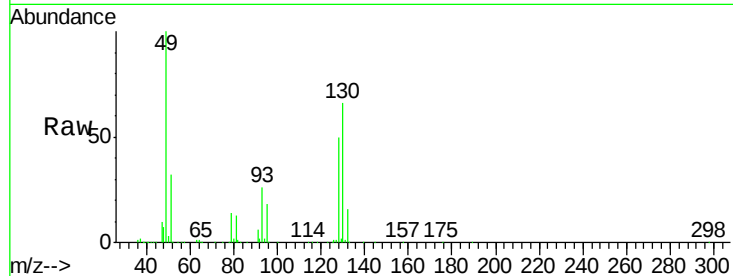
Tgt Ion: 49 Resp: 1256706

Ion Ratio Lower Upper

49 100

128 53.5 27.1 81.3

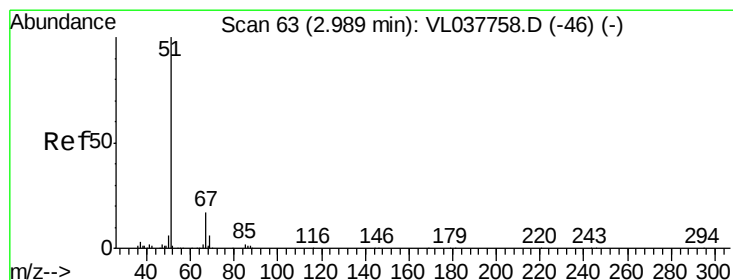
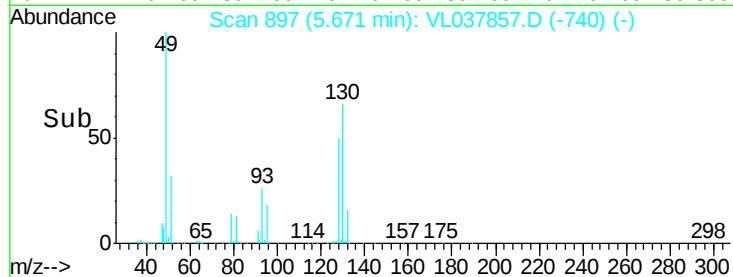
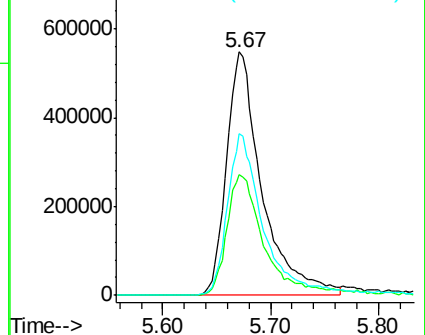
130 68.8 33.2 99.6



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: 0.059 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037857.D

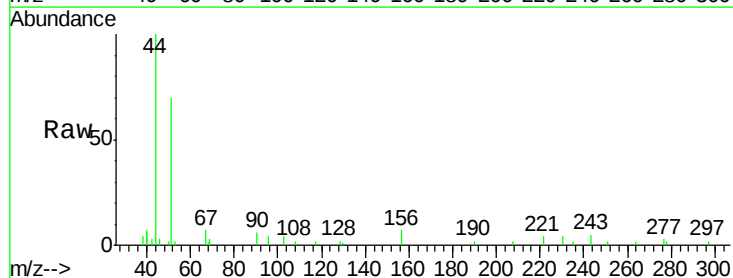
Acq: 18 Oct 2021 18:10

Tgt Ion: 51 Resp: 14196

Ion Ratio Lower Upper

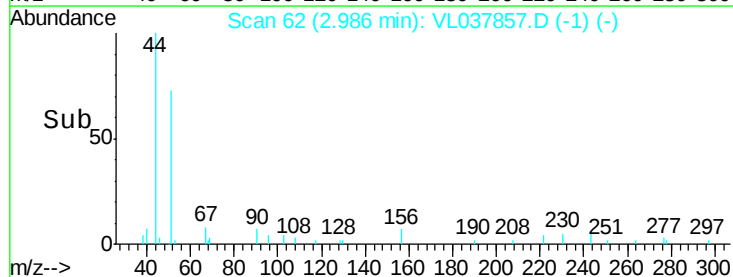
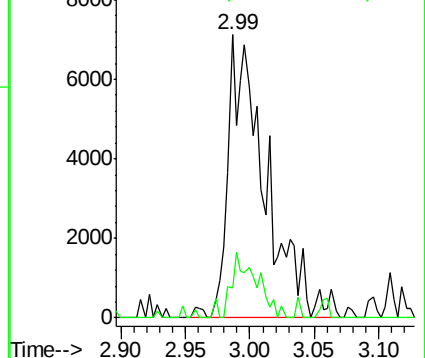
51 100

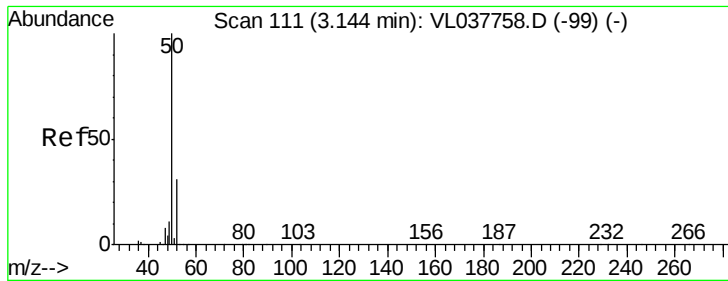
67 16.3 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.028 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

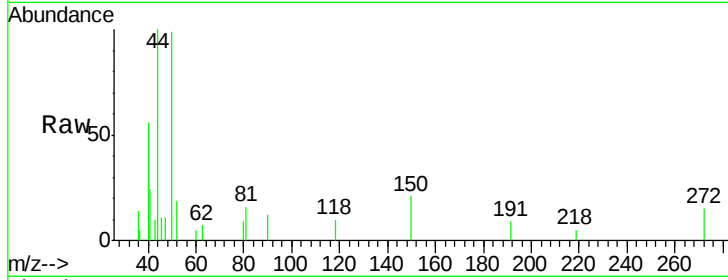
Acq: 18 Oct 2021 18:10

Tgt Ion: 50 Resp: 2453

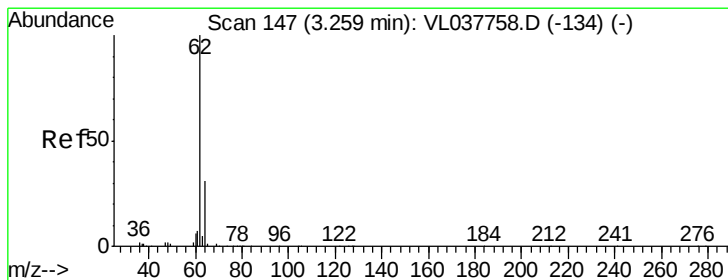
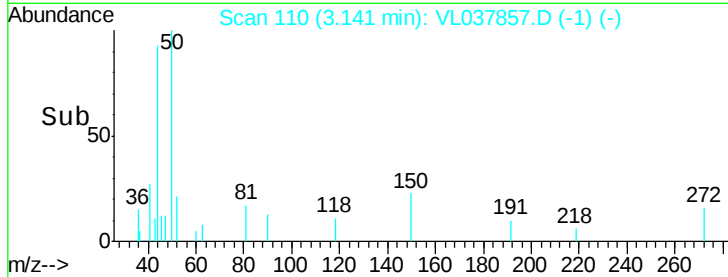
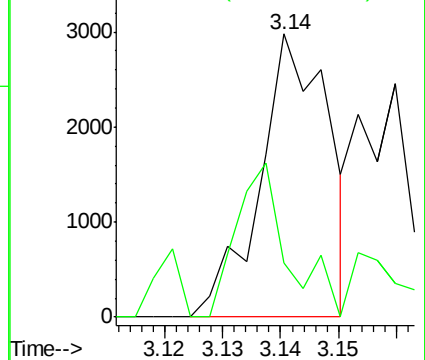
Ion Ratio Lower Upper

50 100

52 19.1 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: 0.020 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.00 min

Lab File: VL037857.D

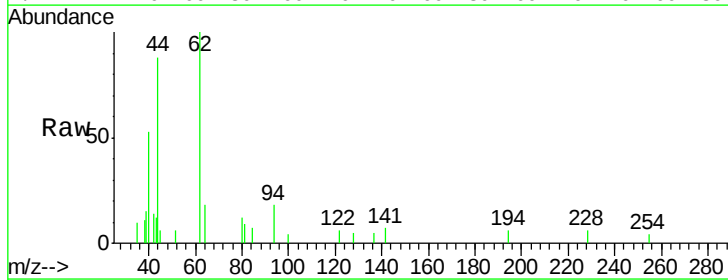
Acq: 18 Oct 2021 18:10

Tgt Ion: 62 Resp: 1645

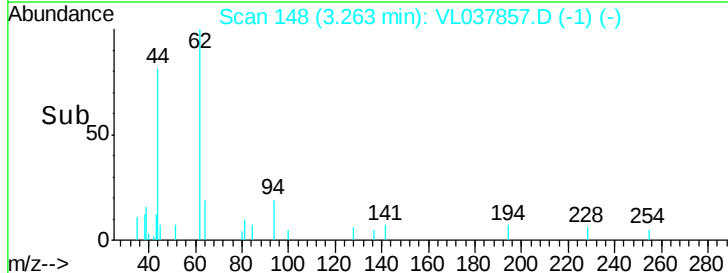
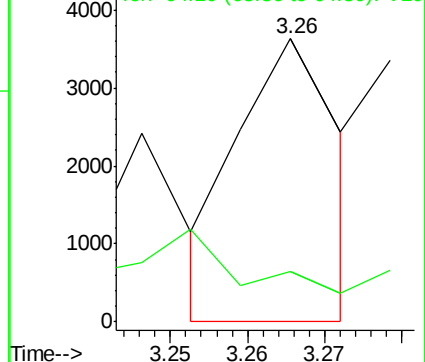
Ion Ratio Lower Upper

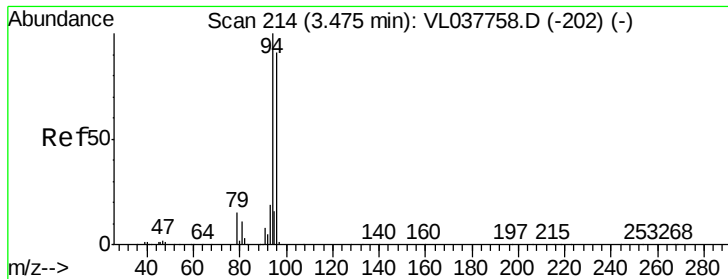
62 100

64 11.6 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.025 ppbv

RT: 3.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

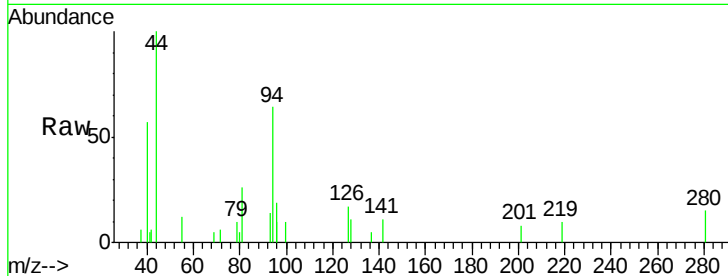
Acq: 18 Oct 2021 18:10 LOQ-AIR-02-OT4-2021

Tgt Ion: 94 Resp: 1081

Ion Ratio Lower Upper

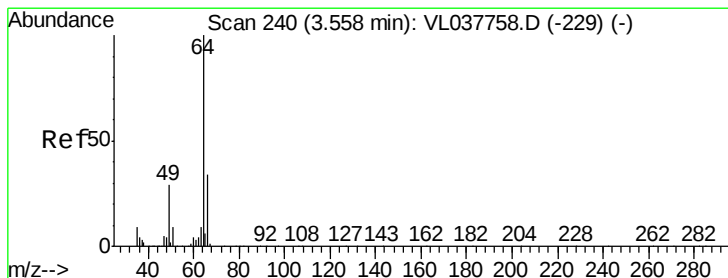
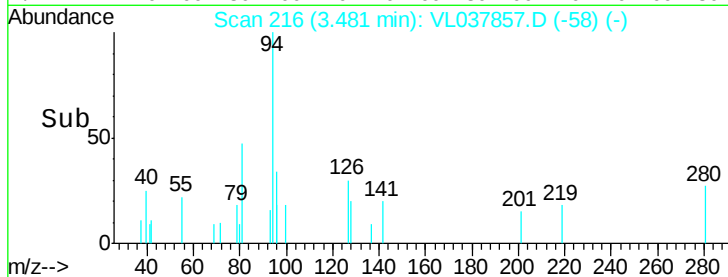
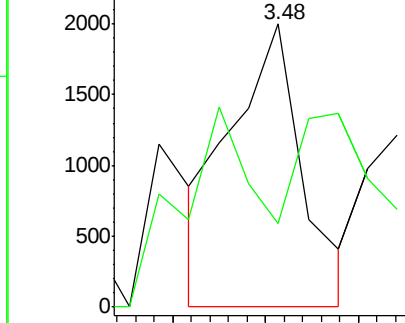
94 100

96 0.0 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: 0.022 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL037857.D

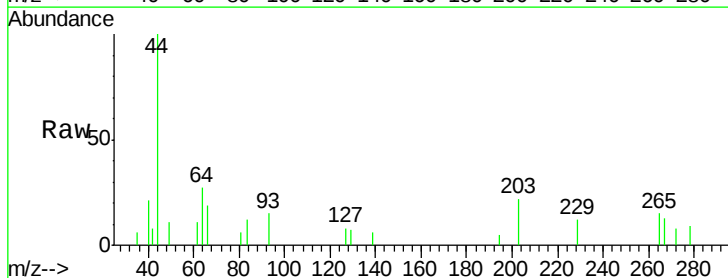
Acq: 18 Oct 2021 18:10

Tgt Ion: 64 Resp: 667

Ion Ratio Lower Upper

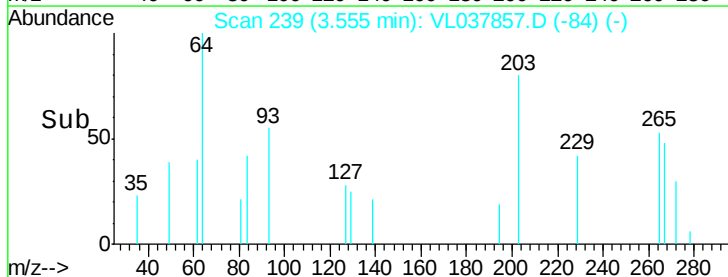
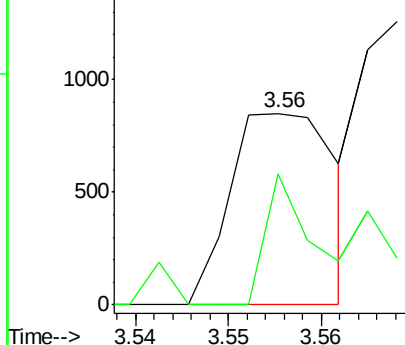
64 100

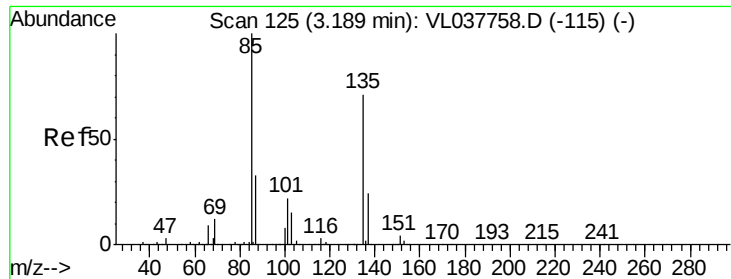
66 68.4 27.5 41.3#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.037 ppbv

RT: 3.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

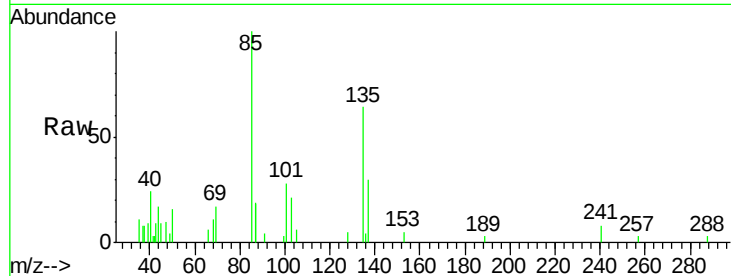
Acq: 18 Oct 2021 18:10 LOQ-AIR-02-OT4-2021

Tgt Ion: 85 Resp: 7386

Ion Ratio Lower Upper

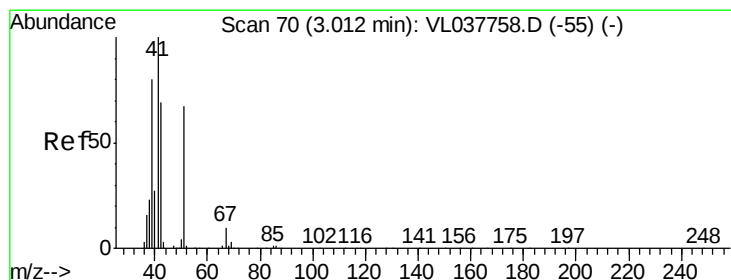
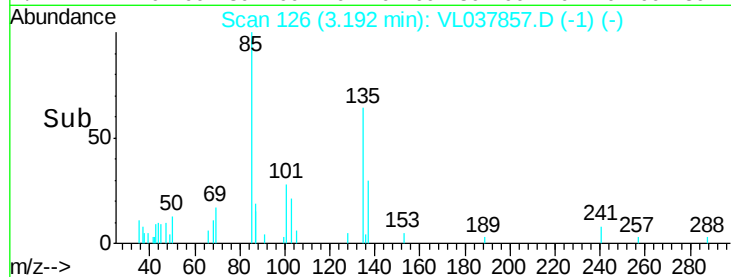
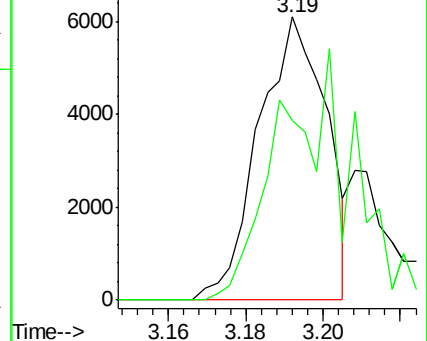
85 100

135 0.0 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: 0.069 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037857.D

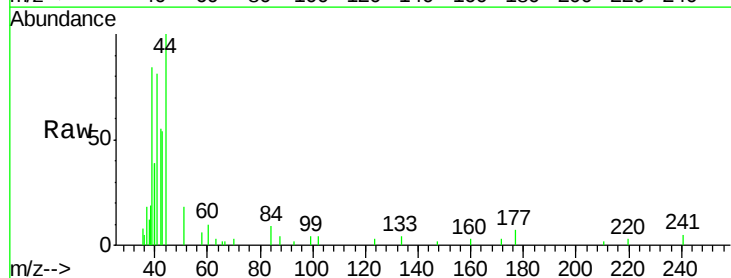
Acq: 18 Oct 2021 18:10

Tgt Ion: 41 Resp: 6120

Ion Ratio Lower Upper

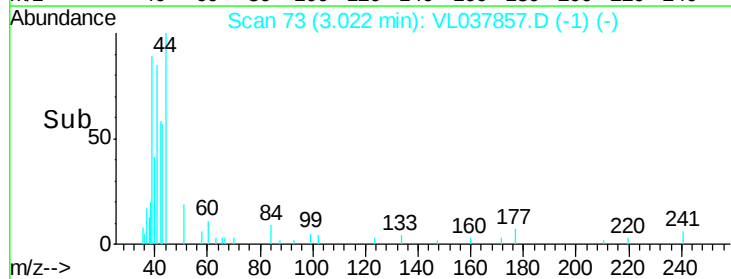
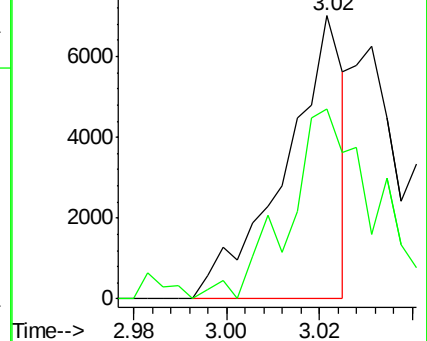
41 100

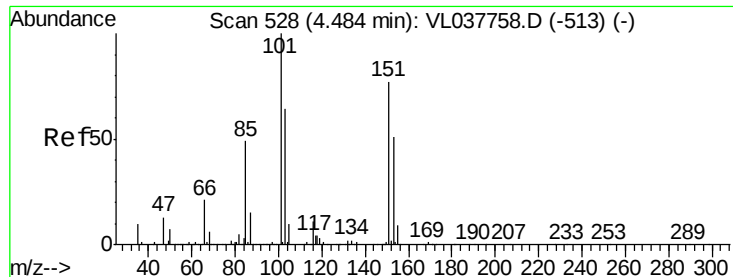
42 120.7 54.2 81.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.025 ppbv

RT: 4.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

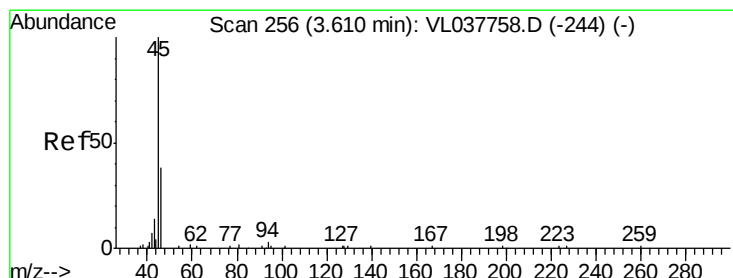
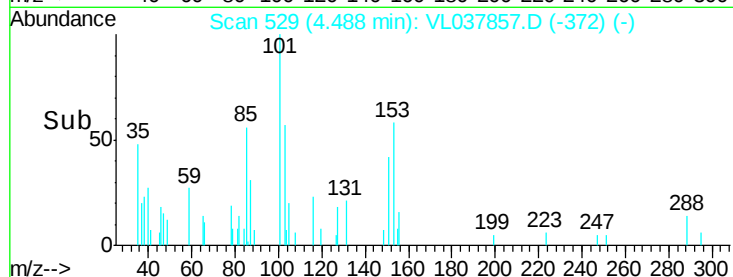
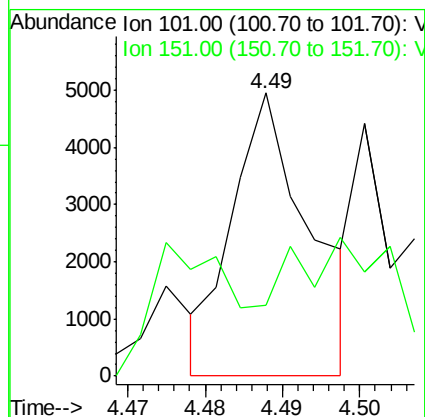
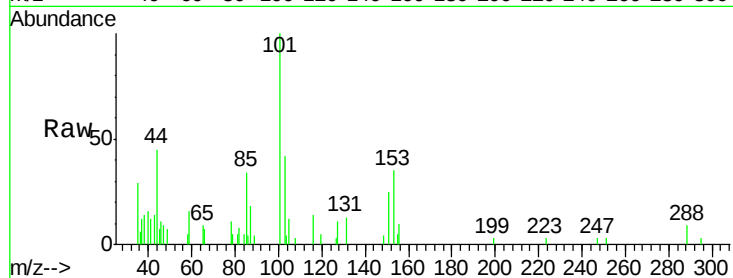
Acq: 18 Oct 2021 18:10 LOQ-AIR-02-OT4-2021

Tgt Ion: 101 Resp: 3422

Ion Ratio Lower Upper

101 100

151 0.0 62.9 94.3#



#13

Ethanol

Concen: 0.071 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL037857.D

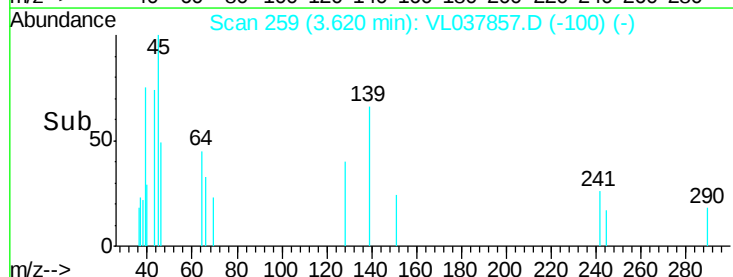
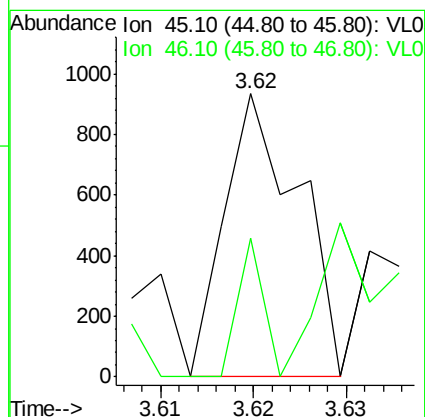
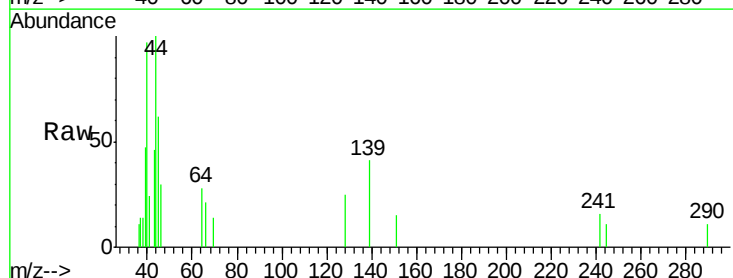
Acq: 18 Oct 2021 18:10

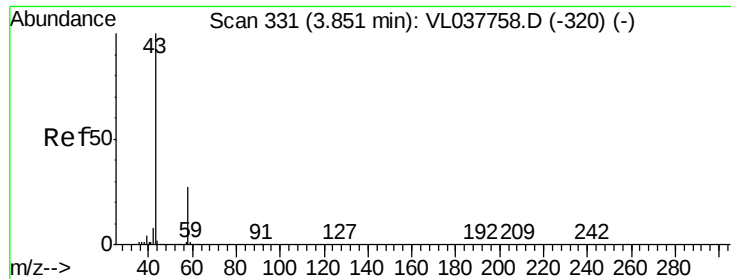
Tgt Ion: 45 Resp: 516

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#





#15

Acetone

Concen: 0.081 ppbv

RT: 3.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

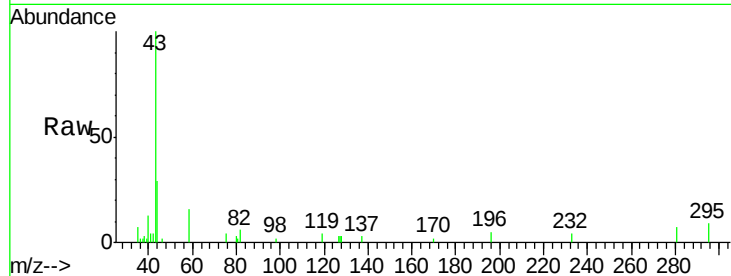
Acq: 18 Oct 2021 18:10

Tgt Ion: 43 Resp: 9101

Ion Ratio Lower Upper

43 100

58 0.0 23.0 34.6#



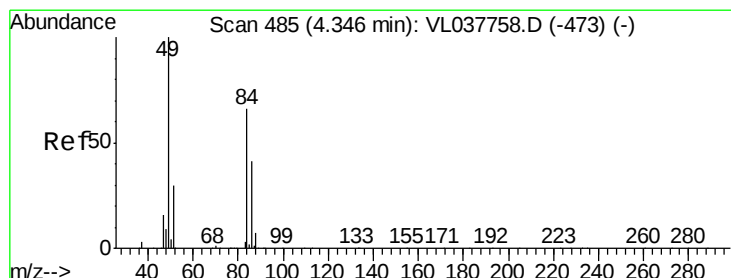
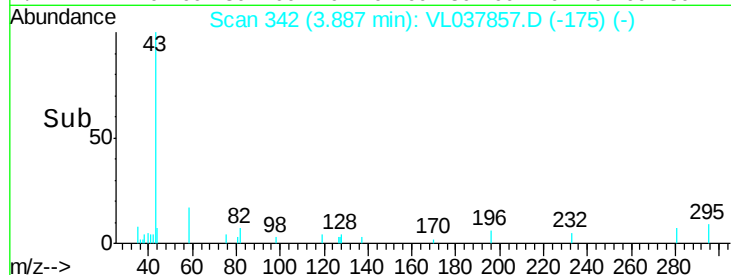
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

Time-->

3.86 3.88 3.90



#20

Methylene Chloride

Concen: 0.091 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL037857.D

Acq: 18 Oct 2021 18:10

Tgt Ion: 84 Resp: 5191

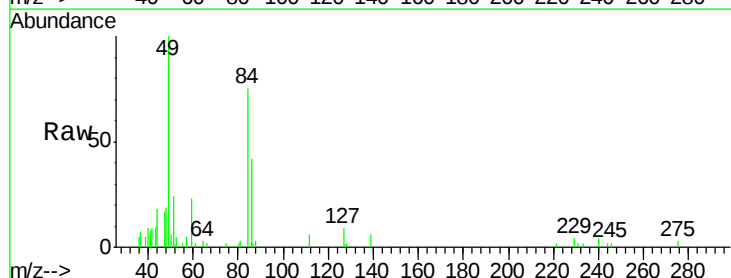
Ion Ratio Lower Upper

84 100

49 62.9 120.7 181.1#

51 20.3 36.2 54.4#

86 19.2 49.6 74.4#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

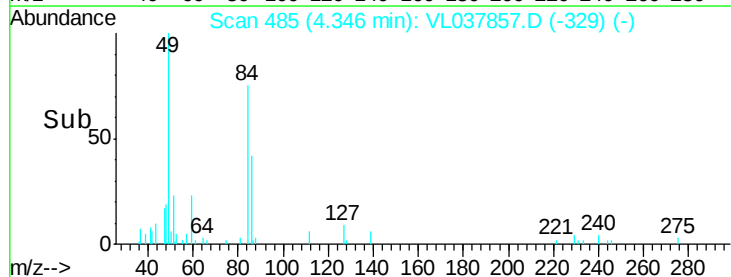
Ion 51.10 (50.80 to 51.80): VL0

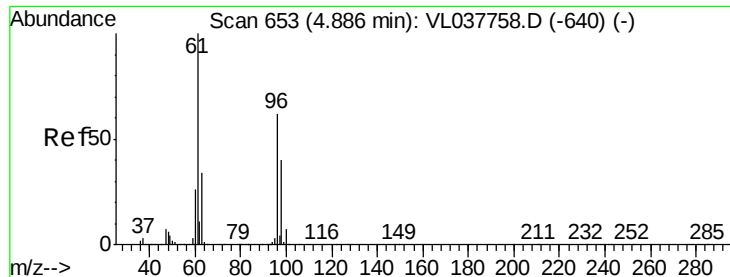
Ion 86.00 (85.70 to 86.70): VL0

4.35

Time-->

4.34 4.34 4.35





#22

trans-1,2-Dichloroethene

Concen: 0.024 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Oct 2021 18:10 LOQ-AIR-02-OT4-2021

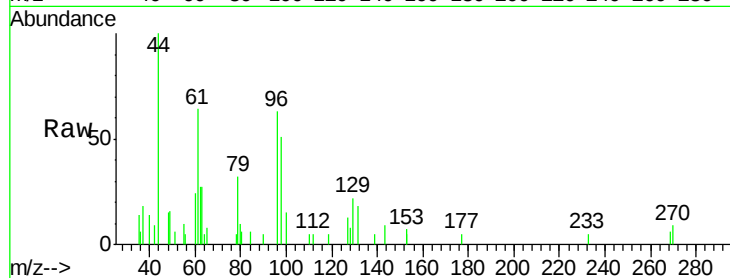
Tgt Ion: 96 Resp: 1509

Ion Ratio Lower Upper

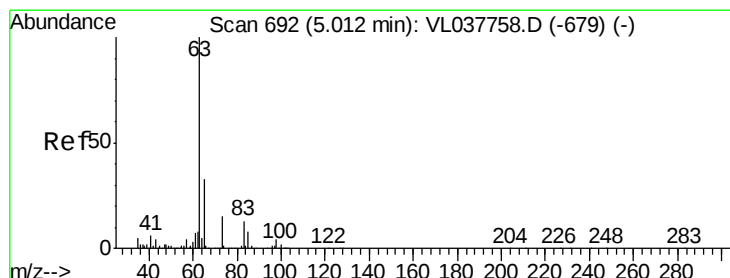
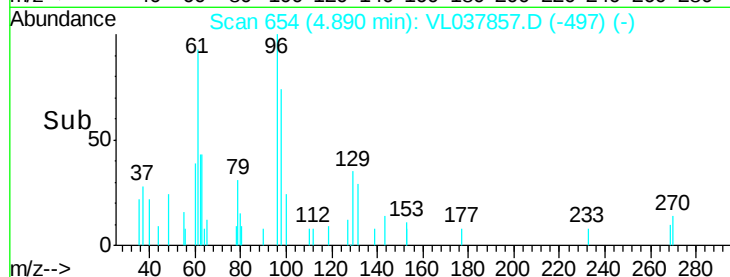
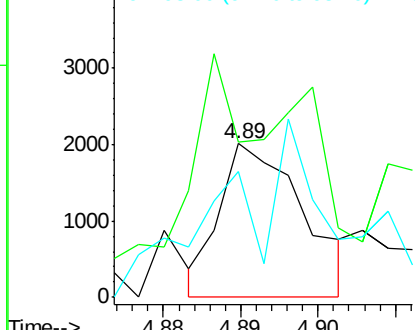
96 100

61 68.9 129.0 193.6#

98 60.4 51.7 77.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.030 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL037857.D

Acq: 18 Oct 2021 18:10

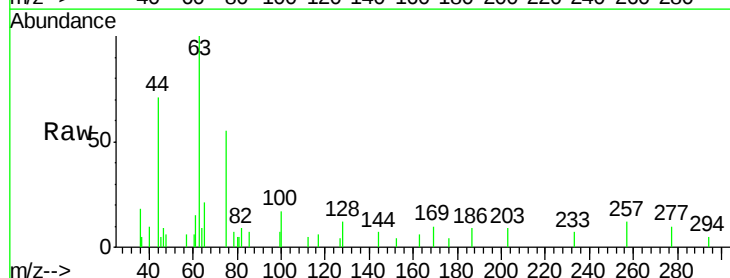
Tgt Ion: 63 Resp: 3704

Ion Ratio Lower Upper

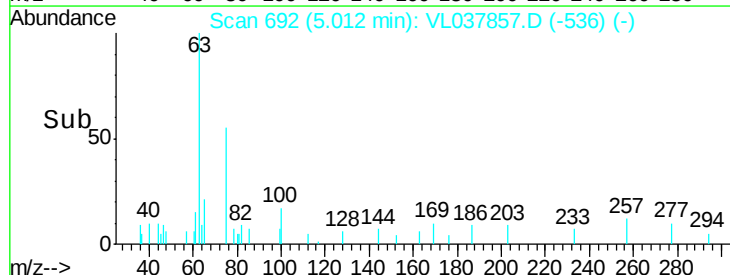
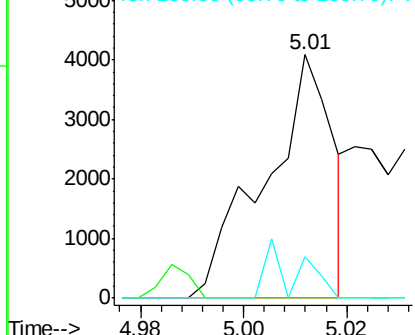
63 100

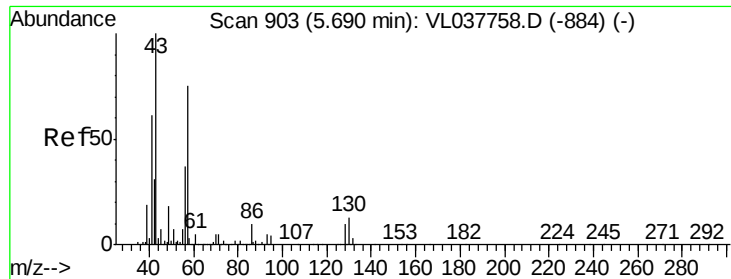
98 0.0 2.3 6.9#

100 16.8 1.1 3.1#



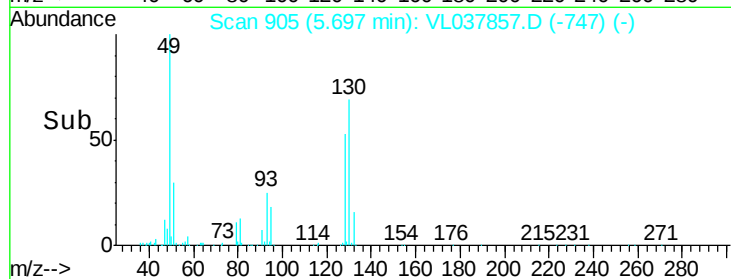
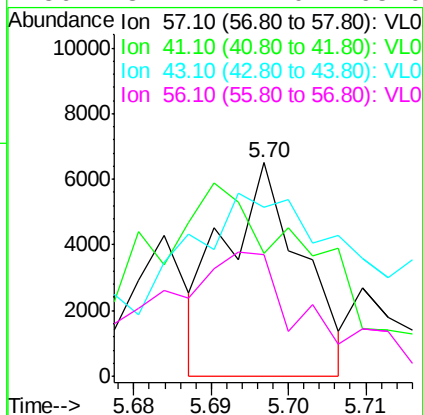
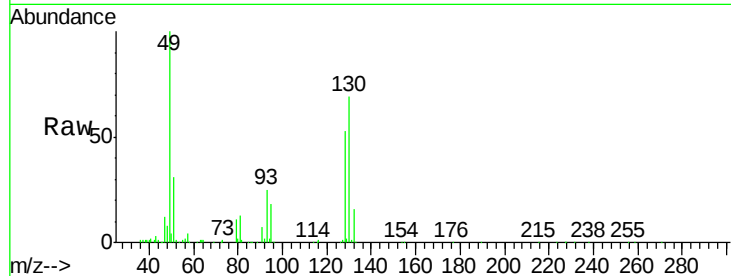
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





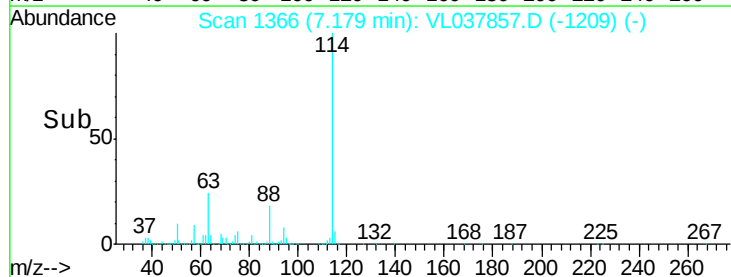
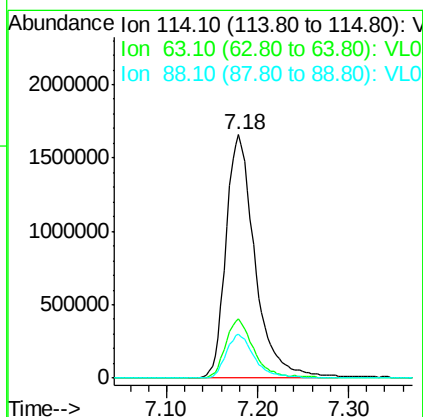
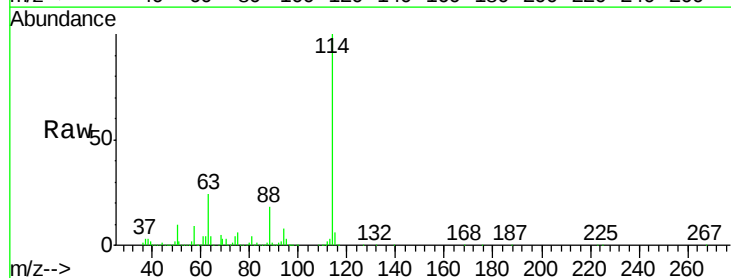
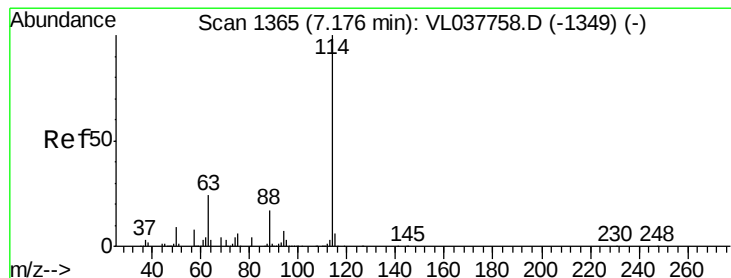
#26
Hexane
Concen: 0.029 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Oct 2021 18:10

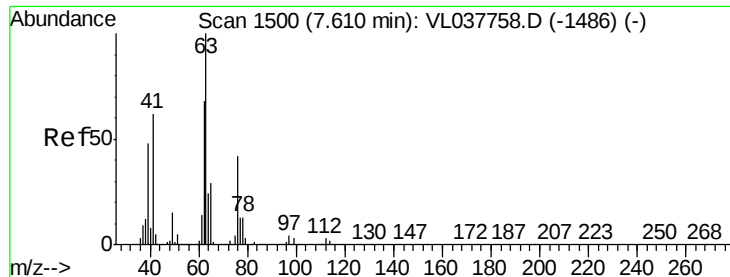
Tgt Ion:	57	Resp:	4497
Ion	Ratio	Lower	Upper
57	100		
41	244.2	69.6	104.4#
43	337.2	171.4	257.0#
56	137.4	42.0	63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.00 min
Lab File: VL037857.D
Acq: 18 Oct 2021 18:10

Tgt Ion:	114	Resp:	3680003
Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.4	29.2
88	17.9	14.4	21.6





#39

1,2-Dichloropropane

Concen: 7.198 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Oct 2021 18:10 LOQ-AIR-02-QT4-2021

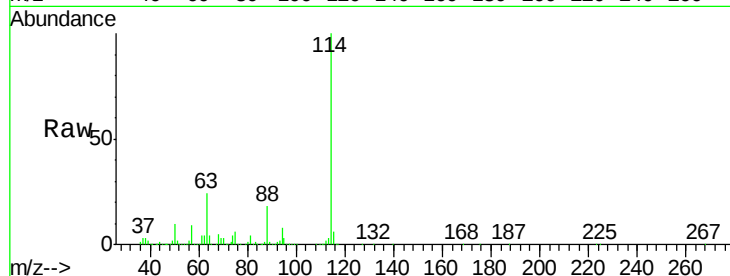
Tgt Ion: 63 Resp: 851030

Ion Ratio Lower Upper

63 100

41 0.2 49.8 74.6#

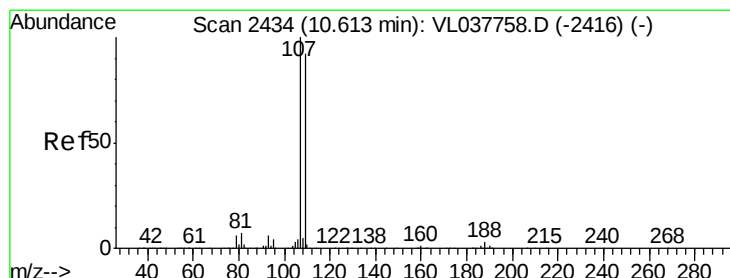
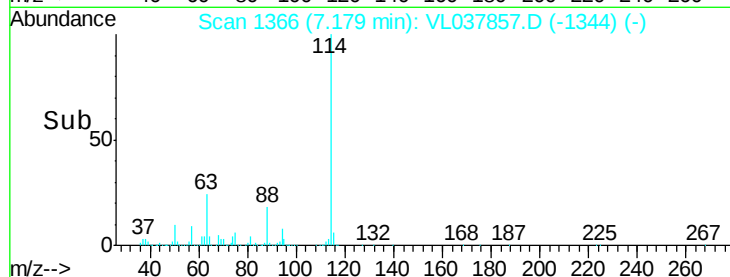
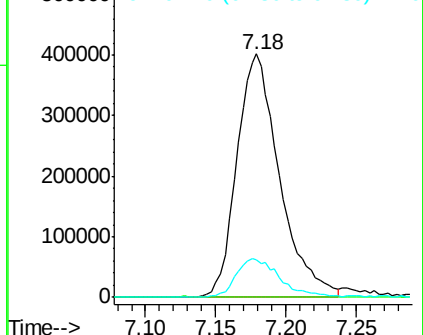
62 15.3 54.6 82.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#54

1,2-Dibromoethane

Concen: 0.022 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL037857.D

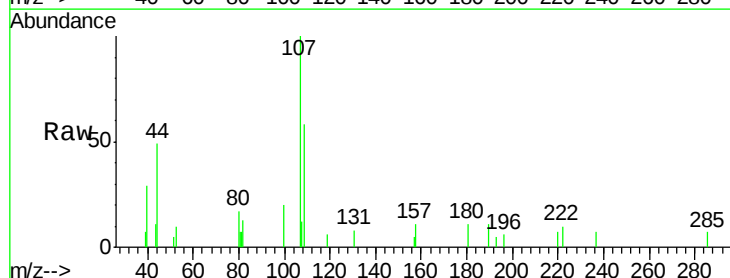
Acq: 18 Oct 2021 18:10

Tgt Ion: 107 Resp: 3835

Ion Ratio Lower Upper

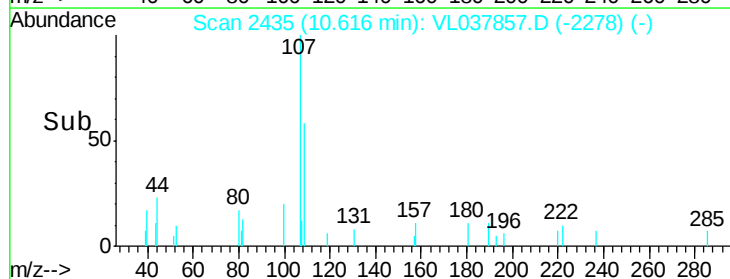
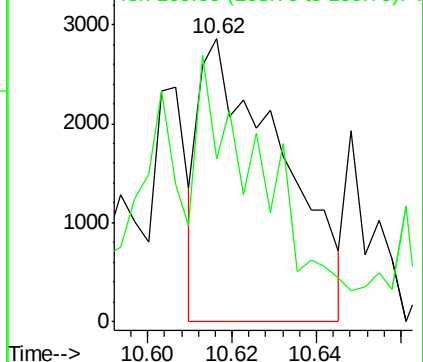
107 100

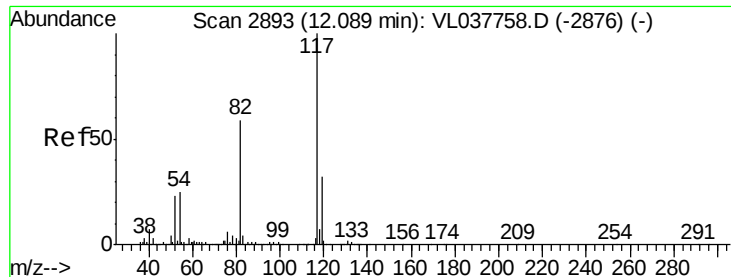
109 55.8 73.8 110.6#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

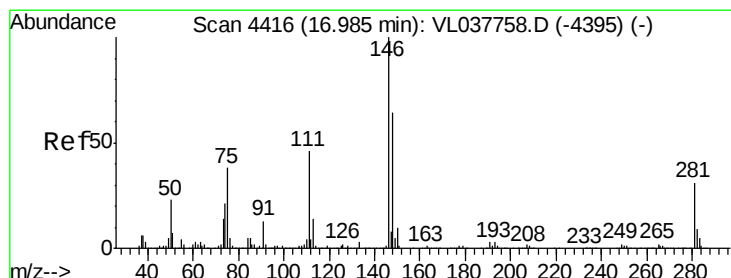
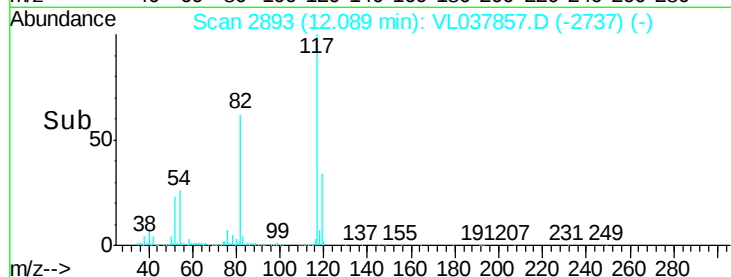
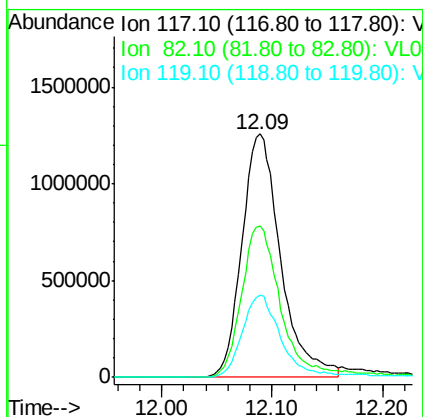
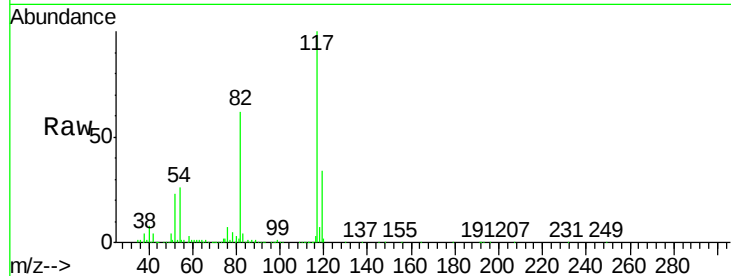




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Oct 2021 18:10

Tgt Ion: 117 Resp: 3060182

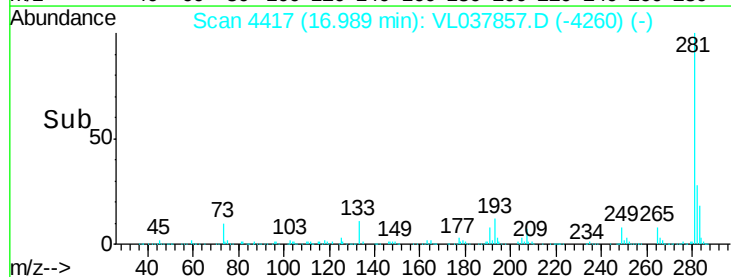
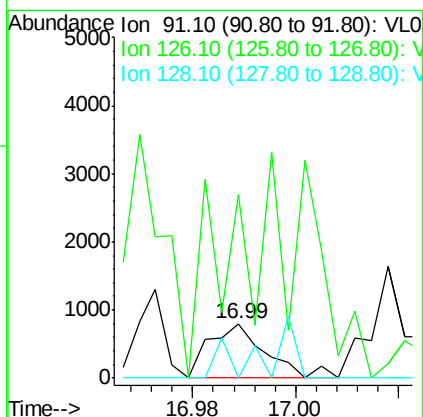
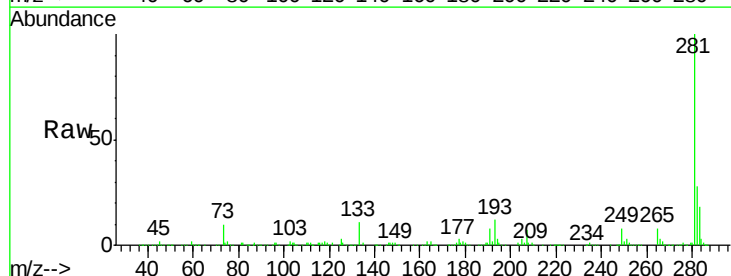
Ion	Ratio	Lower	Upper
117	100		
82	66.1	52.2	78.2
119	35.1	26.0	39.0

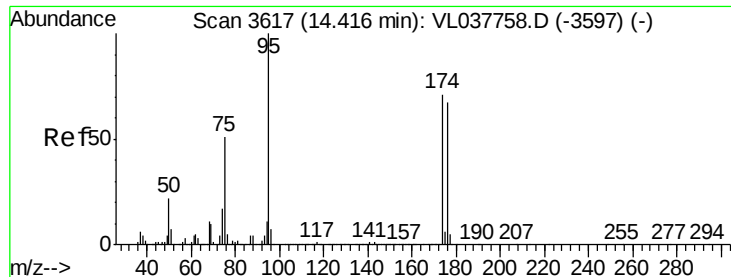


#66
Benzyl Chloride
Concen: 0.030 ppbv
RT: 16.99 min Scan# 4417
Delta R.T.: 0.00 min
Lab File: VL037857.D
Acq: 18 Oct 2021 18:10

Tgt Ion: 91 Resp: 607

Ion	Ratio	Lower	Upper
91	100		
126	0.0	0.0	0.0
128	62.9	5.3	7.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.247 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Oct 2021 18:19

Tgt Ion: 95 Resp: 2192795

Ion Ratio Lower Upper

95 100

174 74.1 57.8 86.6

175 5.2 4.7 7.1

