

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050621\
 Data File : VL036903.D
 Acq On : 6 May 2021 14:50
 Operator : SY/AP
 Sample : M2262-13 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Quant Time: May 07 08:11:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1372061	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3191253	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2778720	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2230838	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

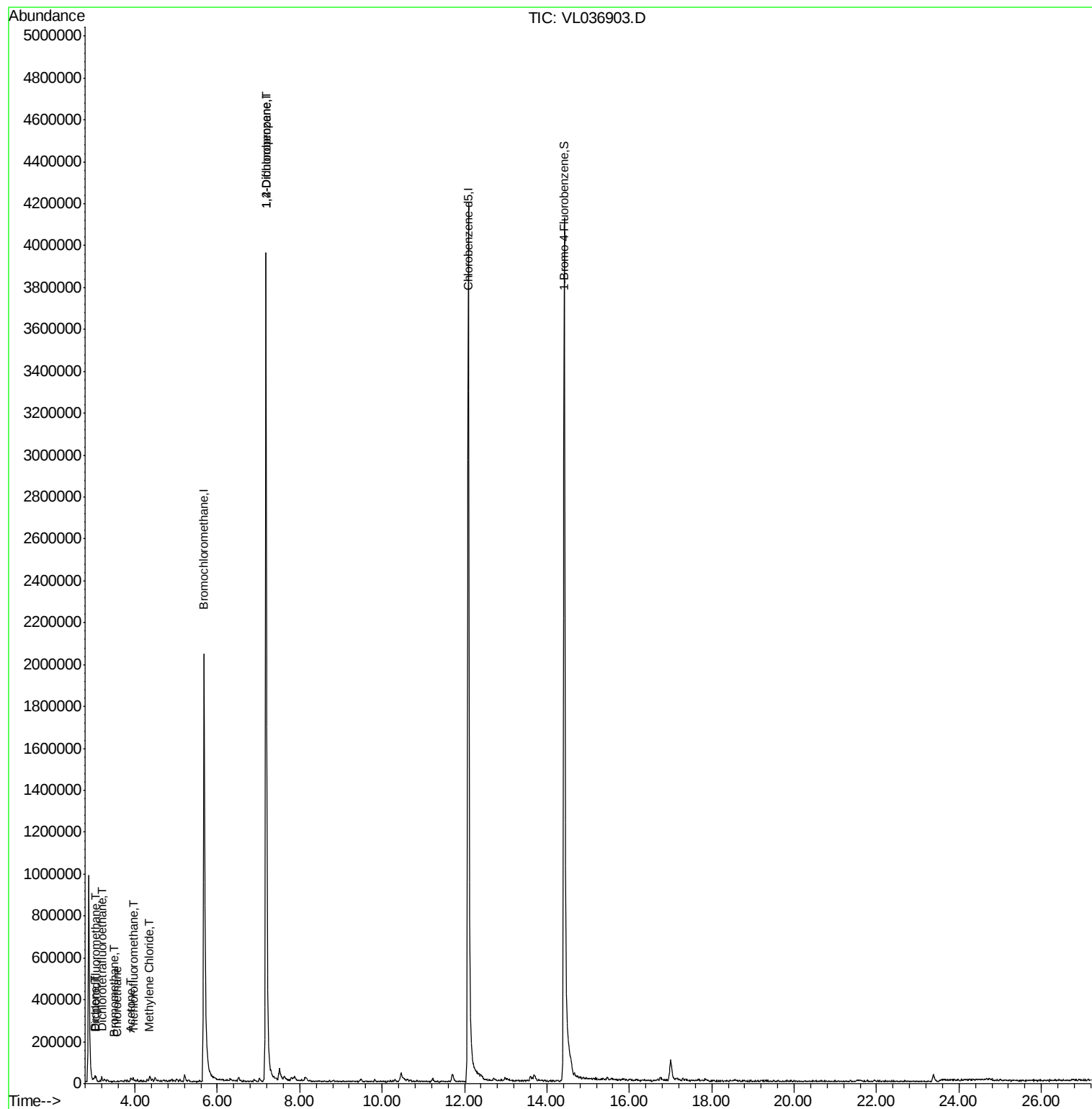
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6924	0.032	ppbv	93
6) Bromomethane	3.48	94	2288	0.051	ppbv #	28
7) Chloroethane	3.56	64	1075	0.039	ppbv	89
8) Dichlorotetrafluoroethane	3.19	85	9209	0.047	ppbv	90
9) Propene	3.02	41	3187	0.042	ppbv #	15
11) Trichlorofluoromethane	3.95	101	6420	0.033	ppbv	97
15) Acetone	3.90	43	11251	0.087	ppbv #	48
20) Methylene Chloride	4.35	84	6664	0.108	ppbv #	66
39) 1,2-Dichloropropane	7.18	63	863187	8.013	ppbv #	24

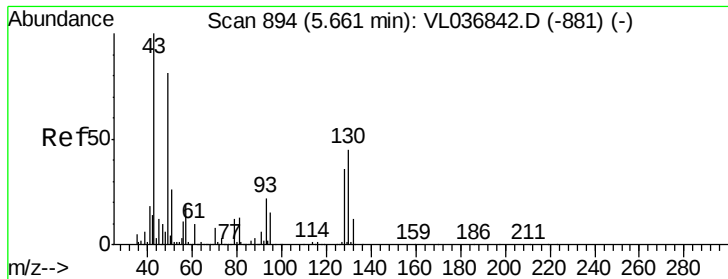
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:50 LOD-MDL-AIR-01-QT2-2021

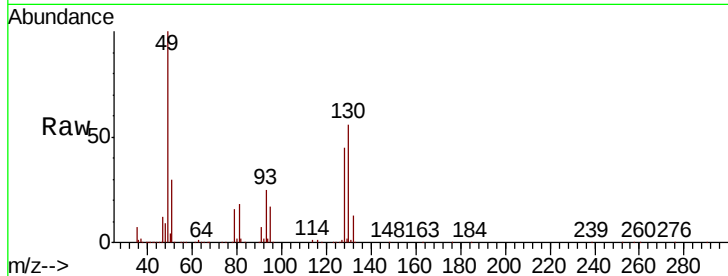
Tot Ion: 49 Resp: 1372061

Ion Ratio Lower Upper

49 100

128 45.7 24.4 73.2

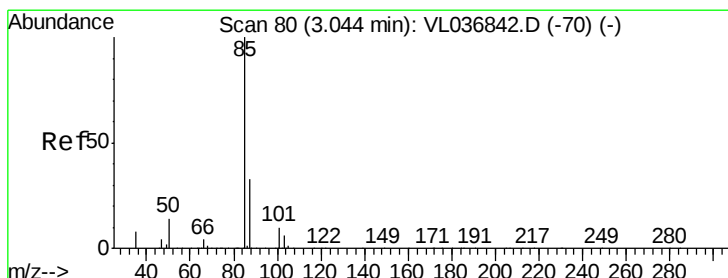
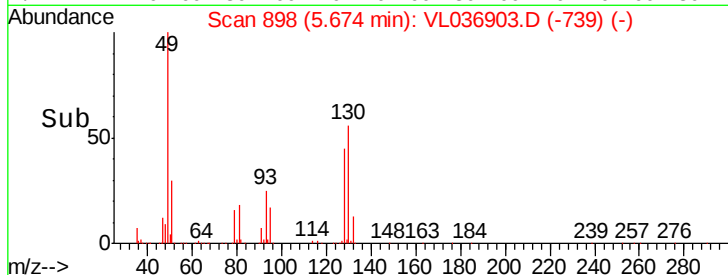
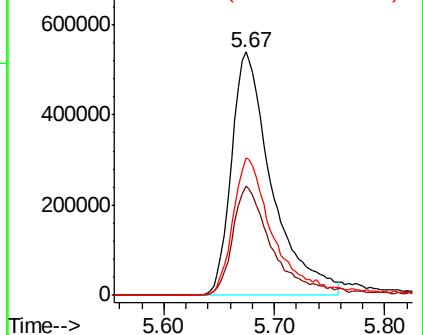
130 59.6 30.3 90.8



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: 0.032 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL036903.D

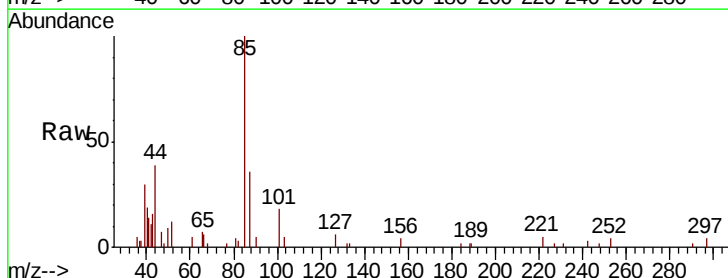
Acq: 6 May 2021 14:50

Tgt Ion: 85 Resp: 6924

Ion Ratio Lower Upper

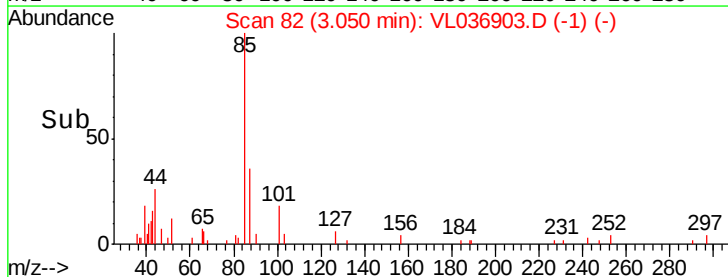
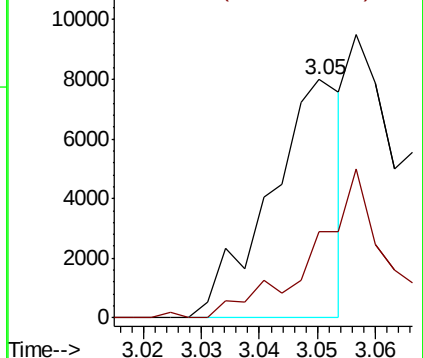
85 100

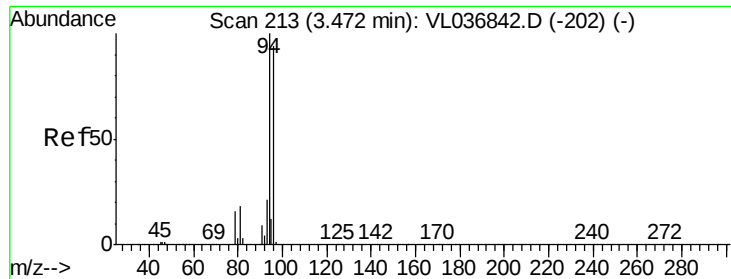
87 36.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#6

Bromomethane

Concen: 0.051 ppbv

RT: 3.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

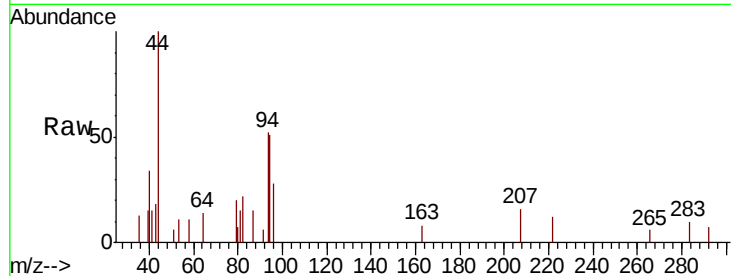
Acq: 6 May 2021 14:50 LOD-MDL-AIR-01-QT2-2021

Tot Ion: 94 Resp: 2288

Ion Ratio Lower Upper

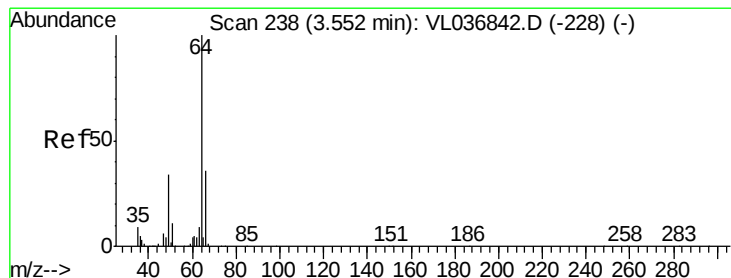
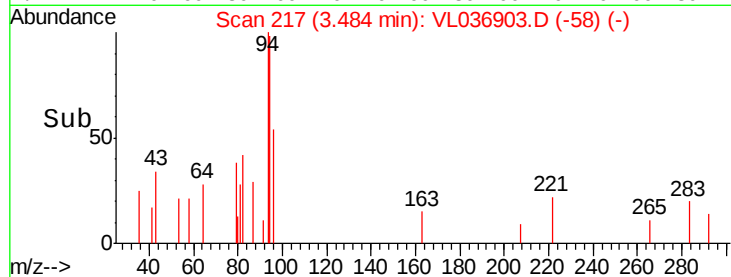
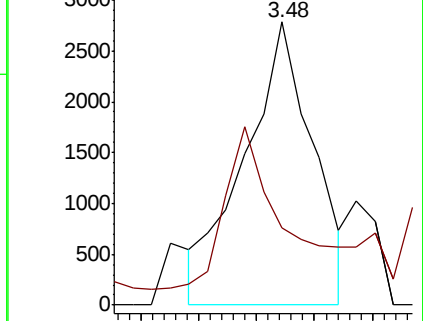
94 100

96 24.6 75.4 113.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.039 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL036903.D

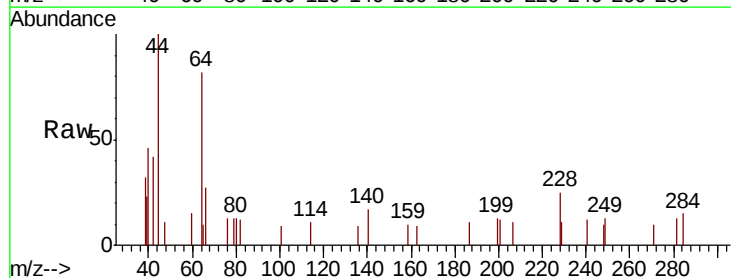
Acq: 6 May 2021 14:50

Tgt Ion: 64 Resp: 1075

Ion Ratio Lower Upper

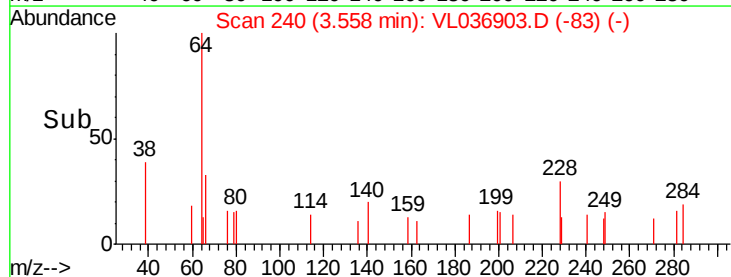
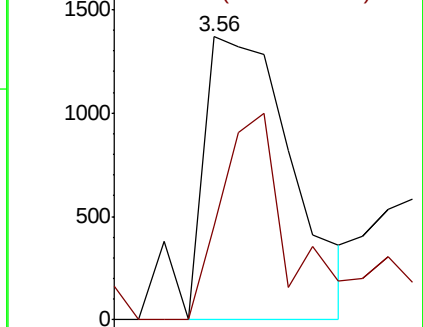
64 100

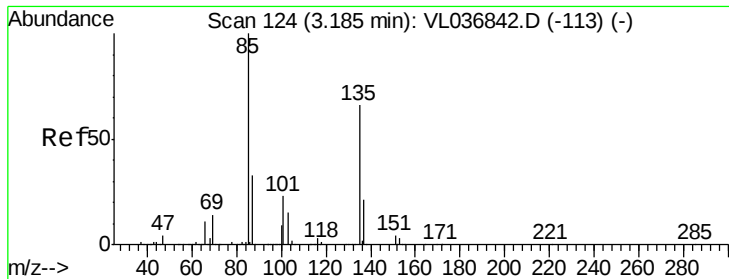
66 29.6 29.0 43.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.047 ppbv

RT: 3.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

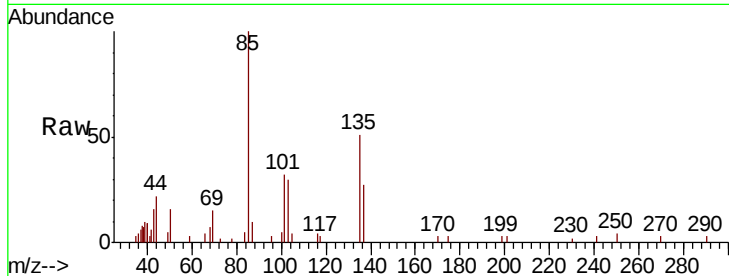
Acq: 6 May 2021 14:50 LOD-MDL-AIR-01-QT2-2021

Tot Ion: 85 Resp: 9209

Ion Ratio Lower Upper

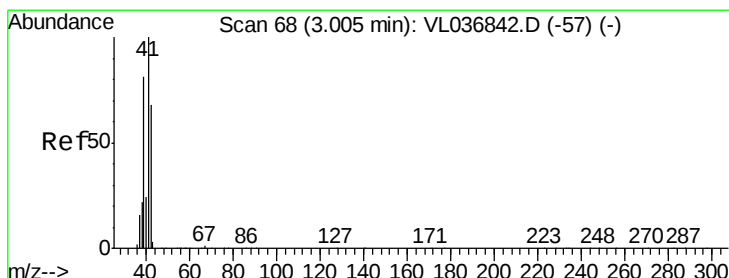
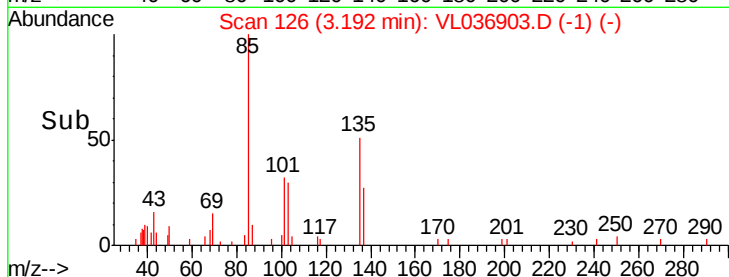
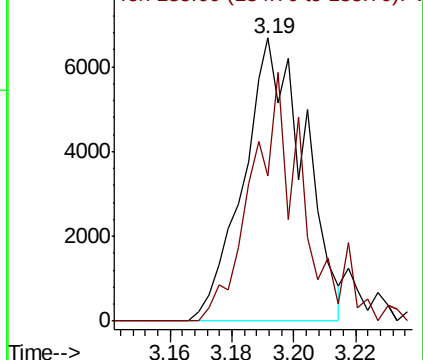
85 100

135 78.4 56.2 84.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.042 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036903.D

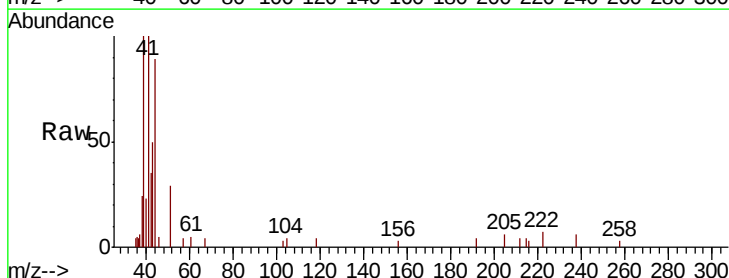
Acq: 6 May 2021 14:50

Tgt Ion: 41 Resp: 3187

Ion Ratio Lower Upper

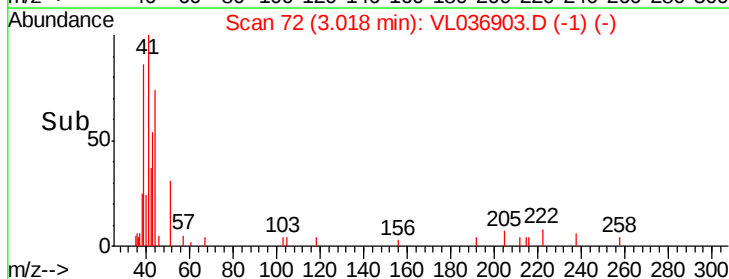
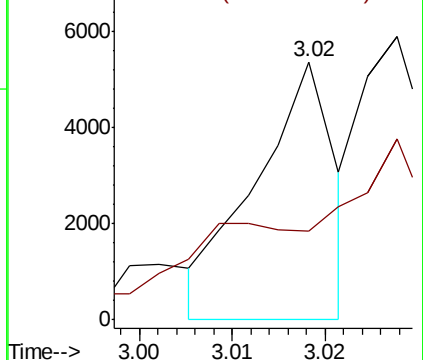
41 100

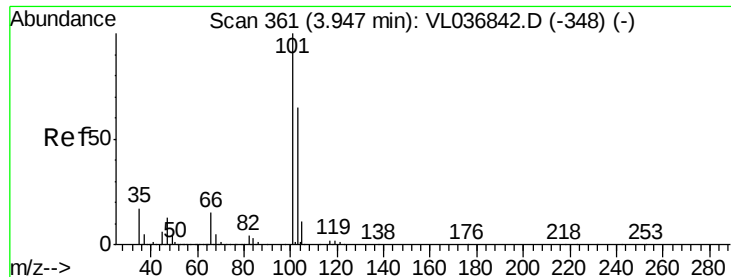
42 0.0 56.0 84.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.033 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

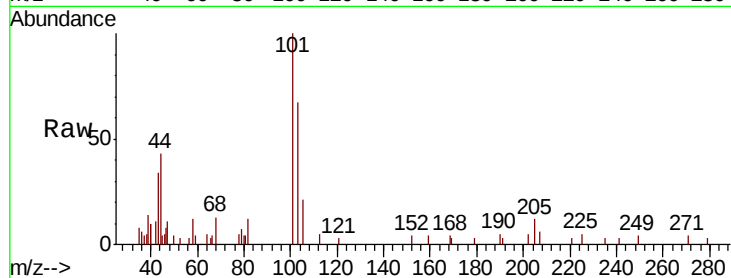
Acq: 6 May 2021 14:50 LOD-MDL-AIR-01-QT2-2021

Tot Ion:101 Resp: 6420

Ion Ratio Lower Upper

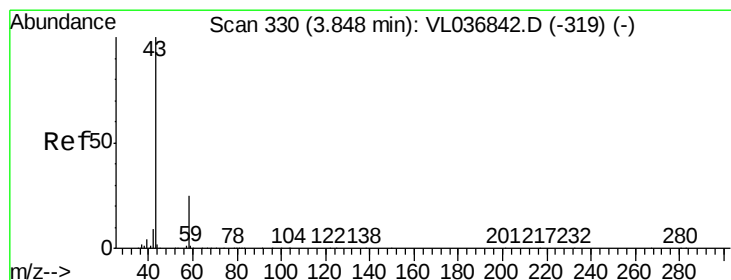
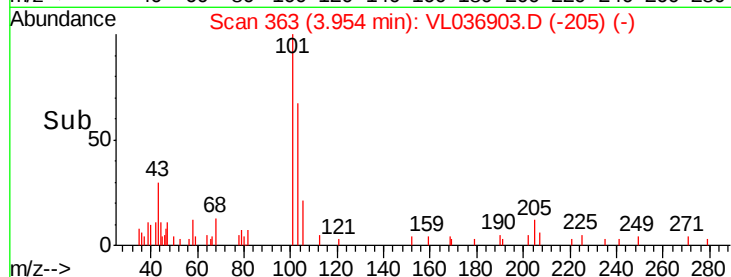
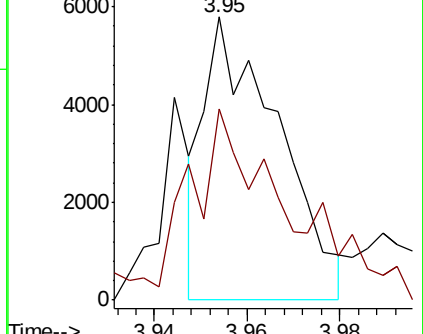
101 100

103 62.0 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#15

Acetone

Concen: 0.087 ppbv

RT: 3.90 min Scan# 345

Delta R.T. 0.05 min

Lab File: VL036903.D

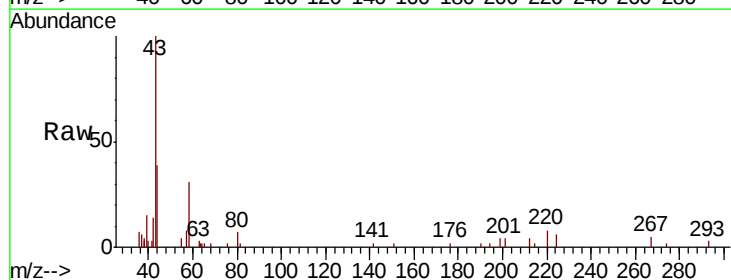
Acq: 6 May 2021 14:50

Tgt Ion: 43 Resp: 11251

Ion Ratio Lower Upper

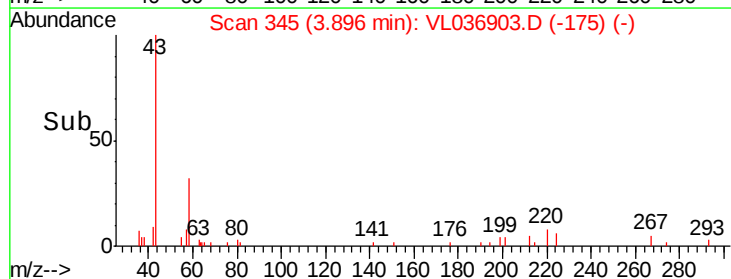
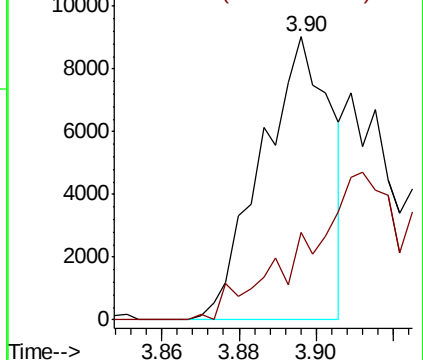
43 100

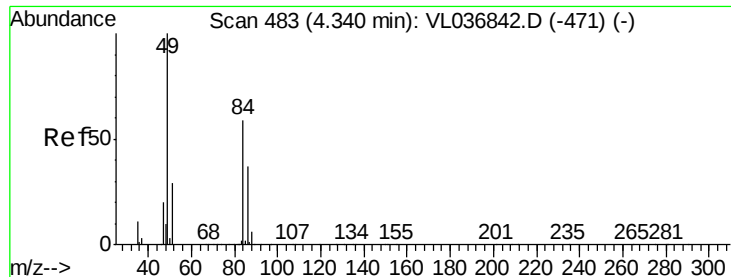
58 0.0 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

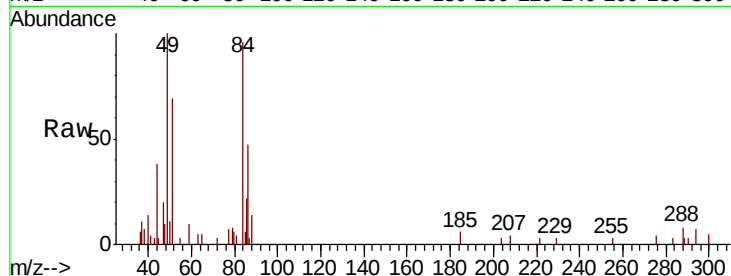
Ion 58.10 (57.80 to 58.80): VL0





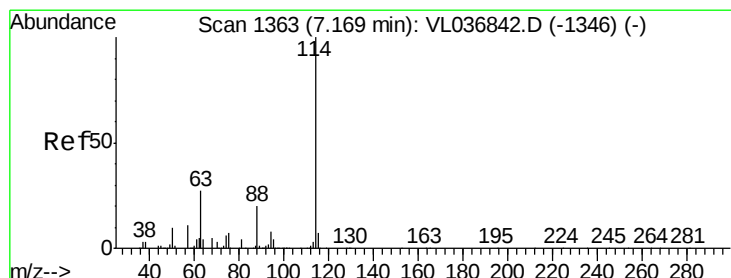
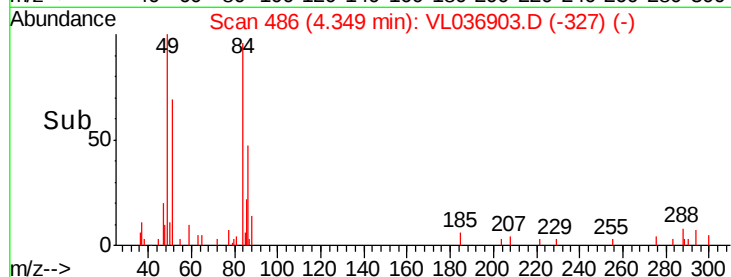
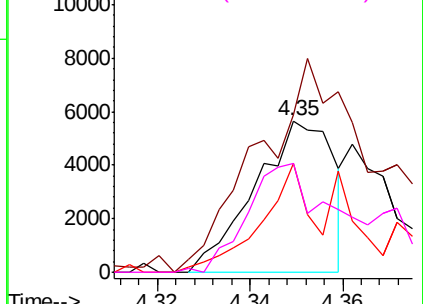
#20
Methylene Chloride
Concen: 0.108 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 6 May 2021 14:50

Tot Ion: 84 Resp: 6664
Ion Ratio Lower Upper
84 100
49 107.3 135.4 203.0#
51 69.0 39.3 58.9#
86 69.1 50.2 75.2



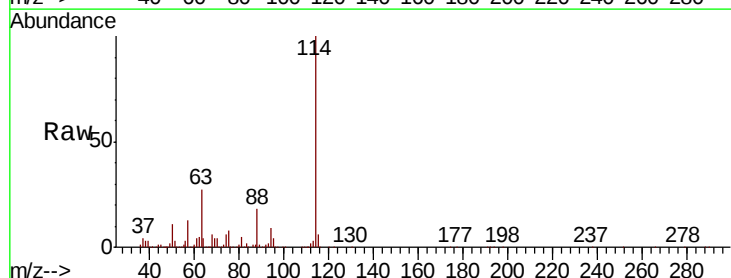
Abundance

Ion 84.00 (83.70 to 84.70): VL0



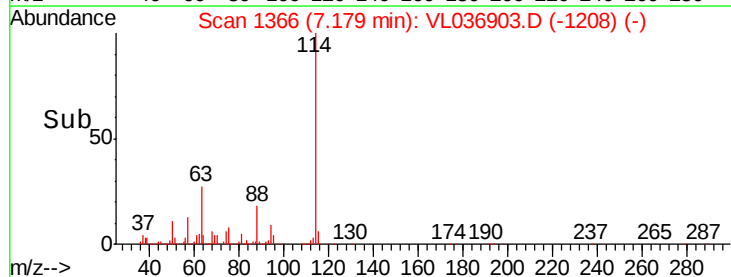
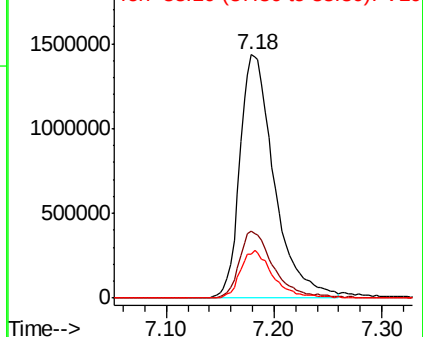
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T.: 0.01 min
Lab File: VL036903.D
Acq: 6 May 2021 14:50

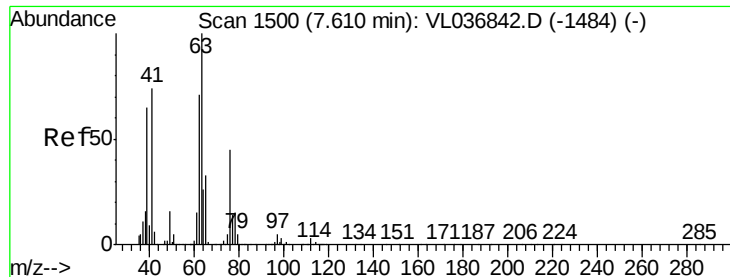
Tgt Ion: 114 Resp: 3191253
Ion Ratio Lower Upper
114 100
63 27.7 21.9 32.9
88 19.0 15.1 22.7



Abundance

Ion 114.10 (113.80 to 114.80): VL0





#39

1,2-Dichloropropane

Concen: 8.013 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:50 LOD-MDL-AIR-01-QT2-2021

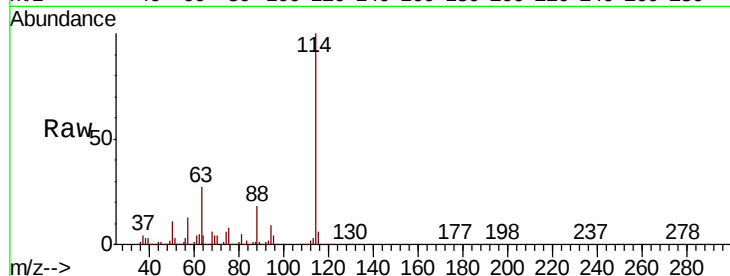
Tot Ion: 63 Resp: 863187

Ion Ratio Lower Upper

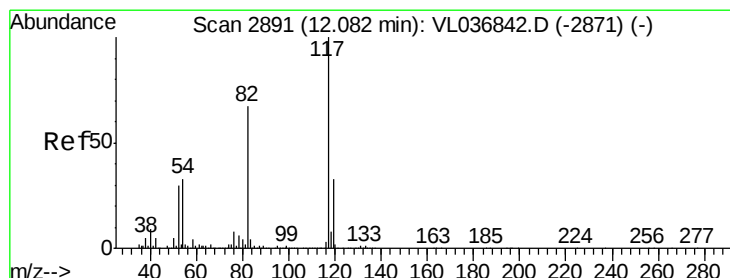
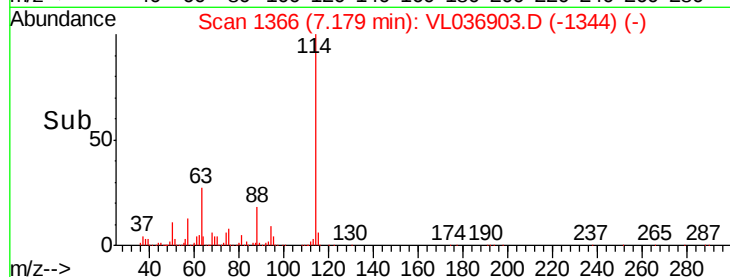
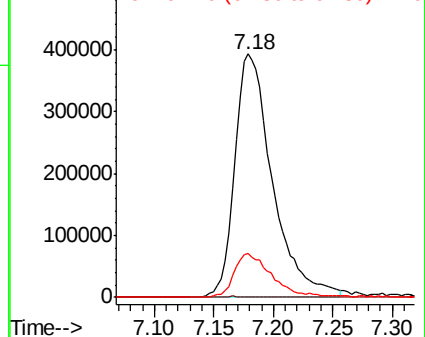
63 100

41 0.2 59.1 88.7#

62 17.9 56.9 85.3#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.01 min

Lab File: VL036903.D

Acq: 6 May 2021 14:50

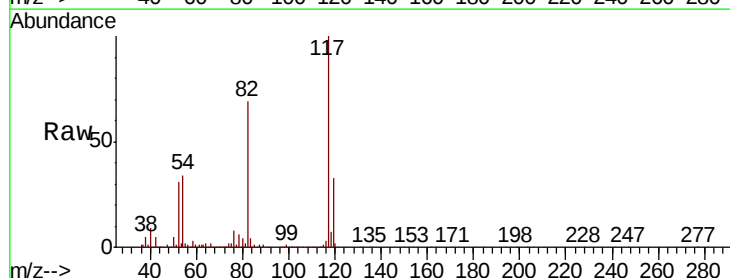
Tgt Ion: 117 Resp: 2778720

Ion Ratio Lower Upper

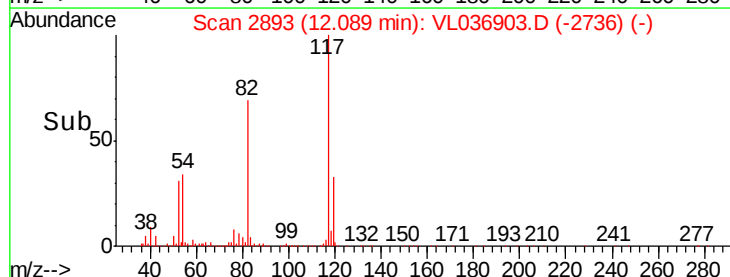
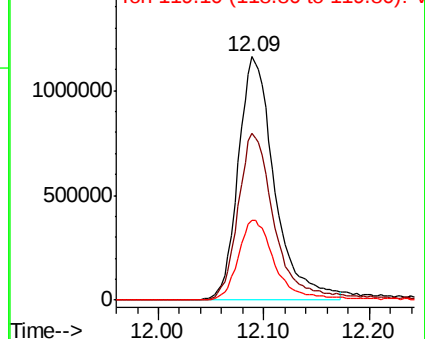
117 100

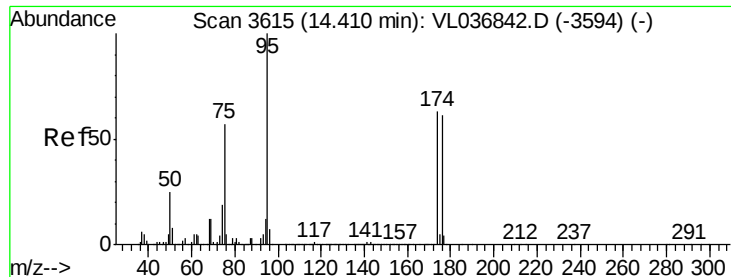
82 71.2 53.5 80.3

119 33.7 25.6 38.4



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





#68

1-Bromo-4-Fluorobenzene

Concen: 10.001 ppbv

RT: 14.42 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:30 LOD-MDL-AIR-01-QT2-2021

Tot Ion: 95 Resp: 2230838

Ion Ratio Lower Upper

95 100

174 63.5 52.2 78.2

175 4.9 4.0 6.0

