

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
 Data File : VL033682.D
 Acq On : 7 May 2019 14:56
 Operator : SY/AP
 Sample : K2241-13 0.03PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Quant Time: May 08 03:38:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	864529	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2010754	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1920334	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1586715	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

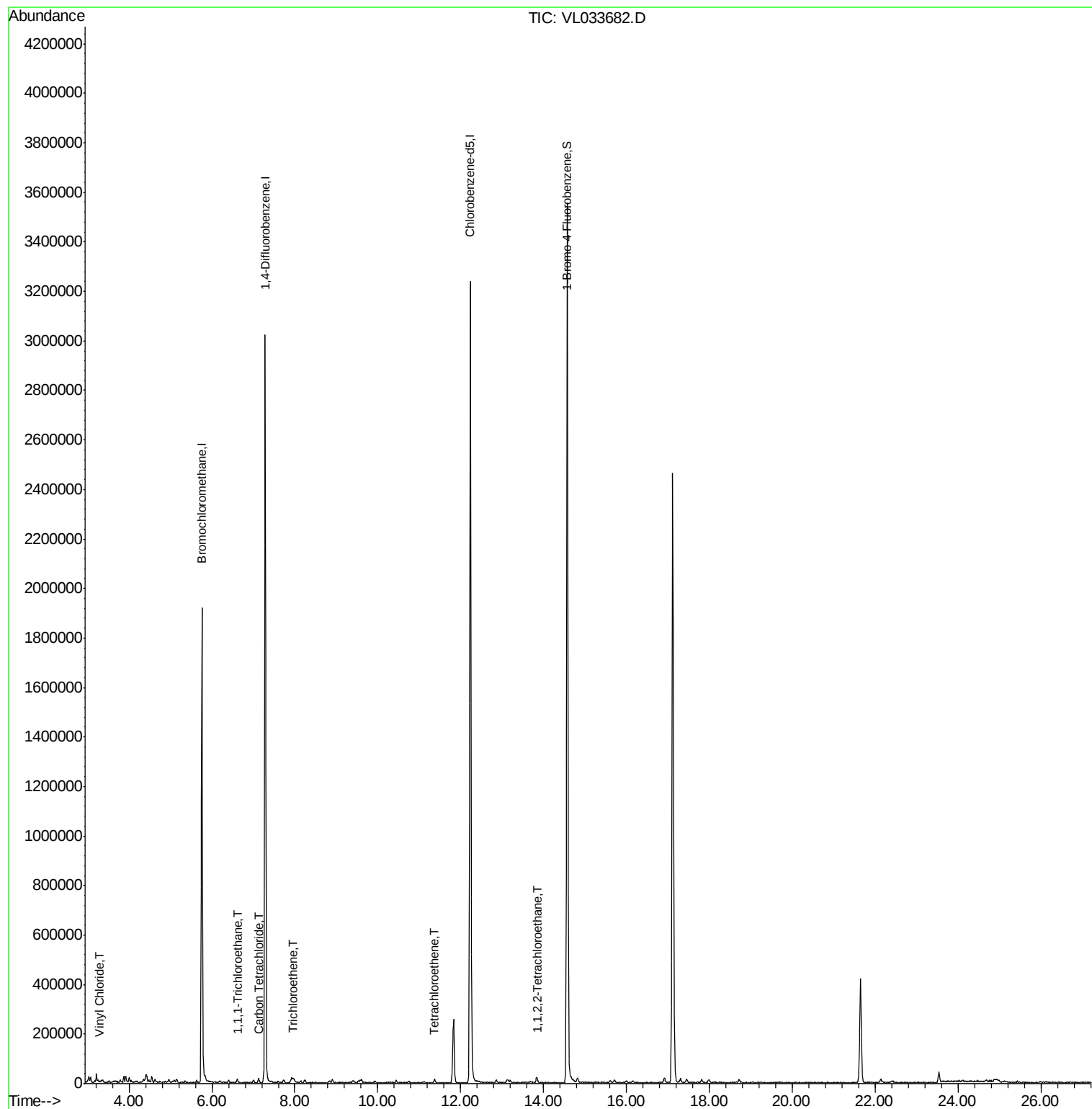
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	3788	0.060	ppbv	# 84
32) 1,1,1-Trichloroethane	6.61	97	8328m	0.050	ppbv	
35) Carbon Tetrachloride	7.13	117	9465m	0.057	ppbv	
38) Trichloroethene	7.95	130	2834m	0.043	ppbv	
52) Tetrachloroethene	11.37	164	2840m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	8998m	0.055	ppbv	

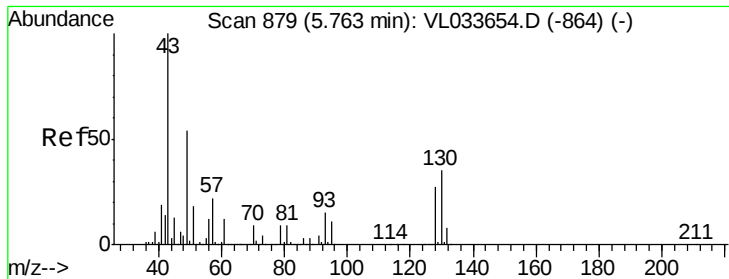
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon May 06 15:19:01 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033682.D

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Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

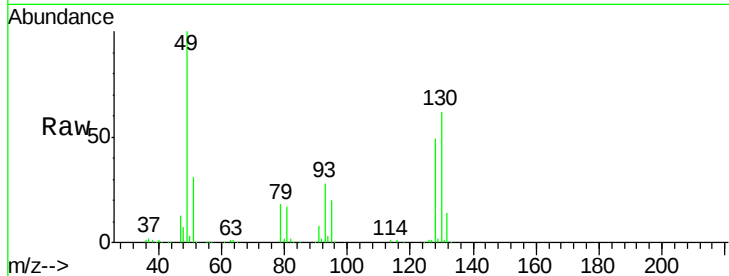
Tot Ion: 49 Resp: 864529

Ion Ratio Lower Upper

49 100

128 49.6 24.8 74.3

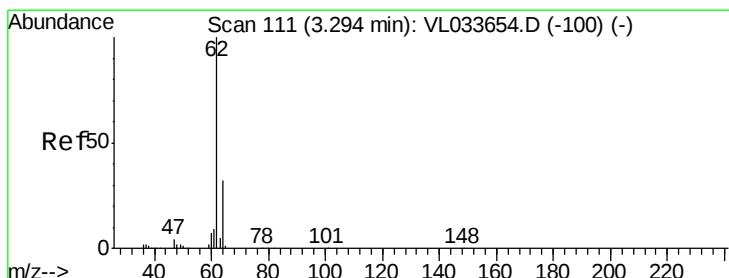
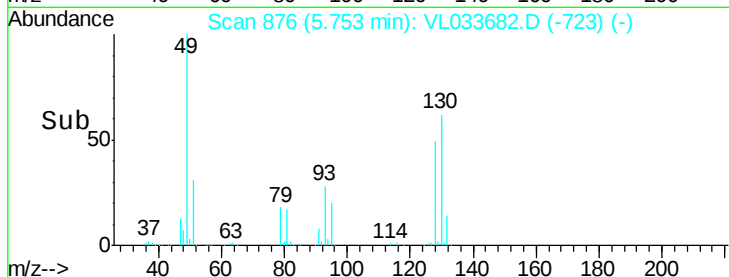
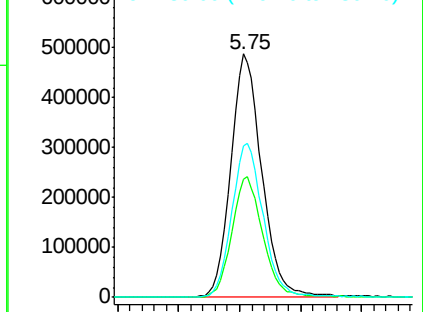
130 64.2 32.1 96.5



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



#5

Vinyl Chloride

Concen: 0.060 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033682.D

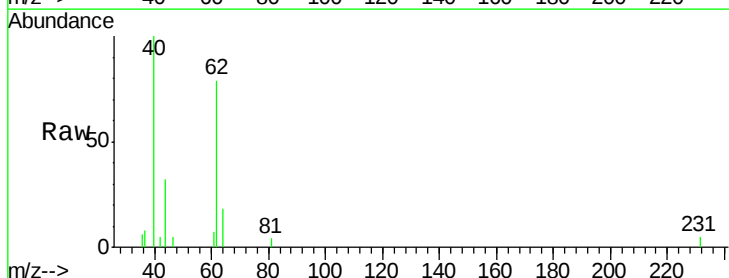
Acq: 7 May 2019 14:56

Tgt Ion: 62 Resp: 3788

Ion Ratio Lower Upper

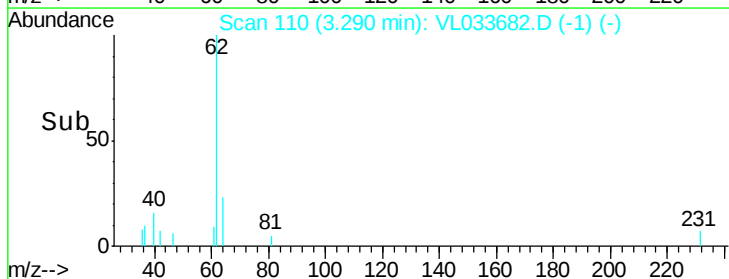
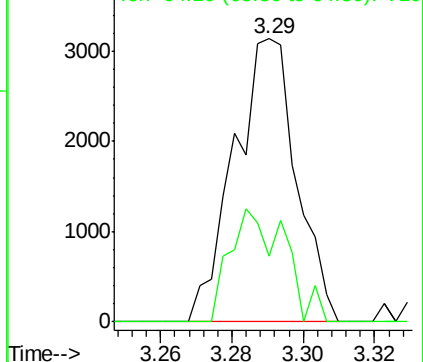
62 100

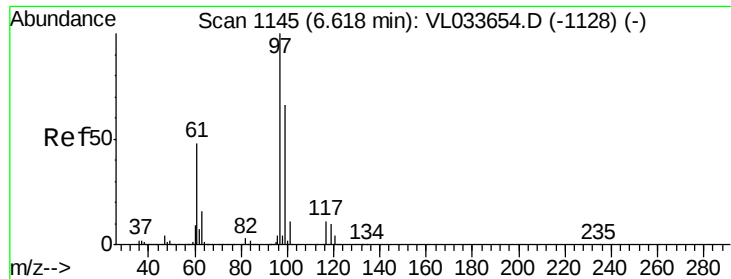
64 23.3 25.6 38.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.050 ppbv m

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

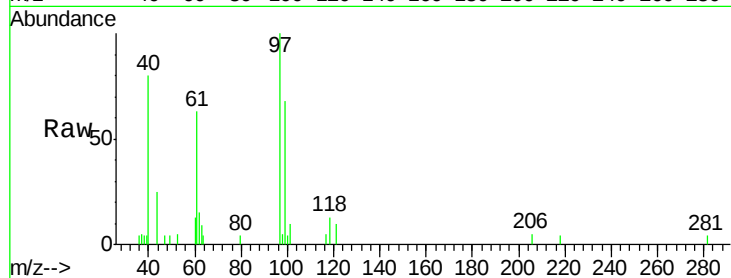
Tot Ion: 97 Resp: 8328

Ion Ratio Lower Upper

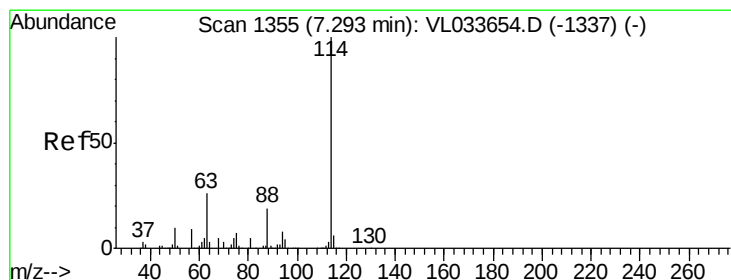
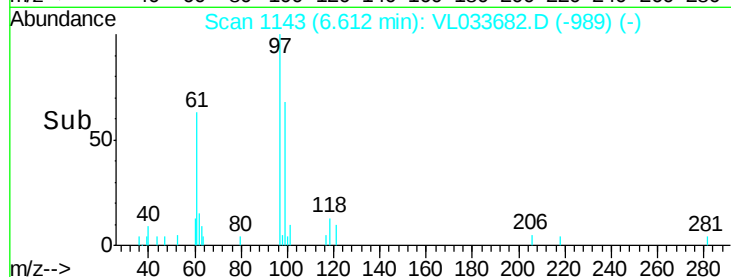
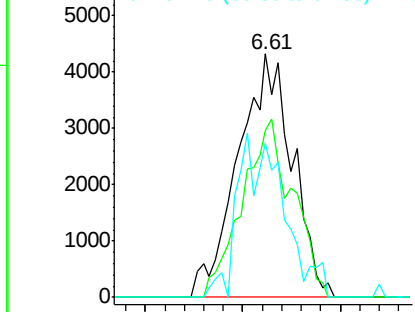
97 100

99 68.1 51.4 77.2

61 57.7 38.5 57.7#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

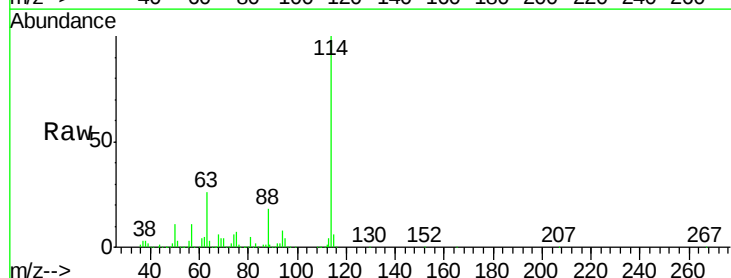
Tgt Ion: 114 Resp: 2010754

Ion Ratio Lower Upper

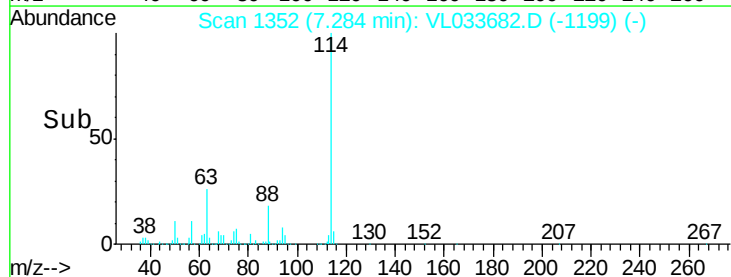
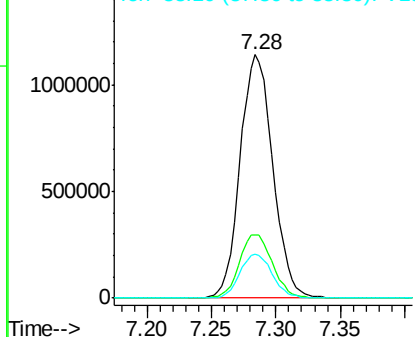
114 100

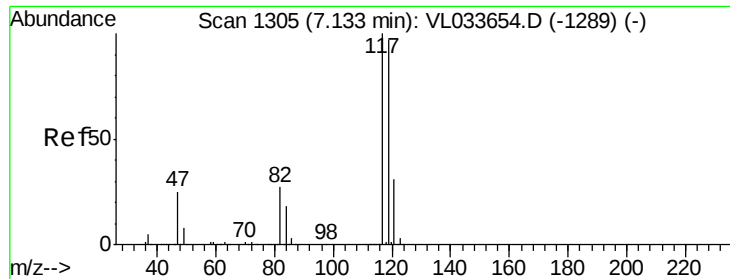
63 26.4 21.3 31.9

88 18.0 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

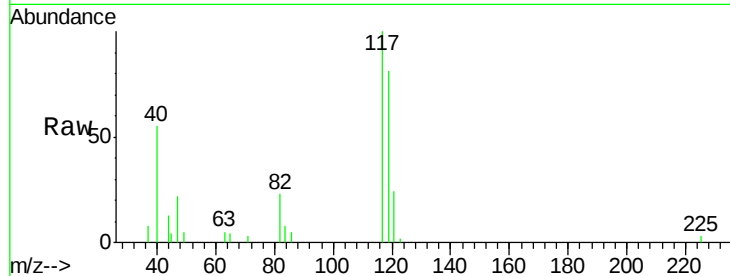
Tot Ion:117 Resp: 9465

Ion Ratio Lower Upper

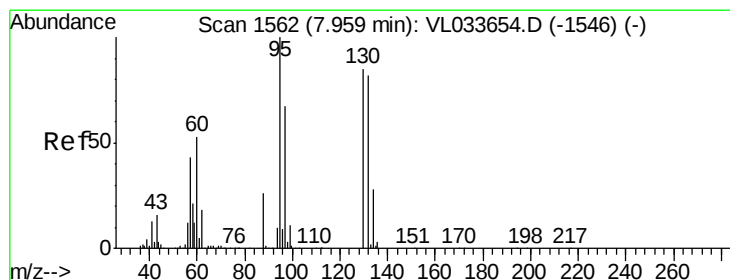
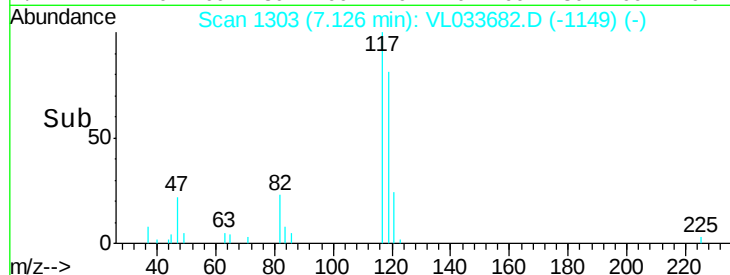
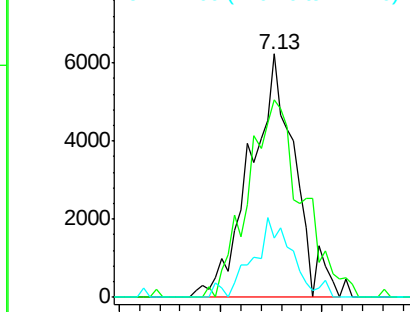
117 100

119 81.3 77.9 116.9

121 24.3 25.0 37.6#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.043 ppbv m

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Tgt Ion:130 Resp: 2834

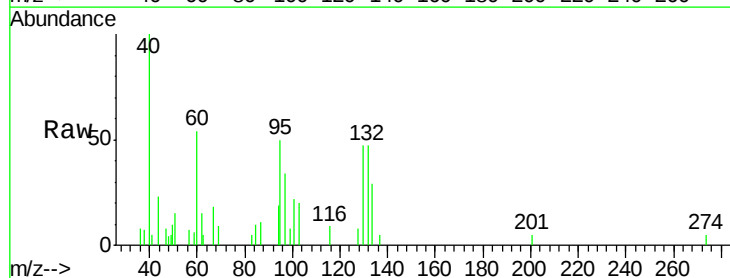
Ion Ratio Lower Upper

130 100

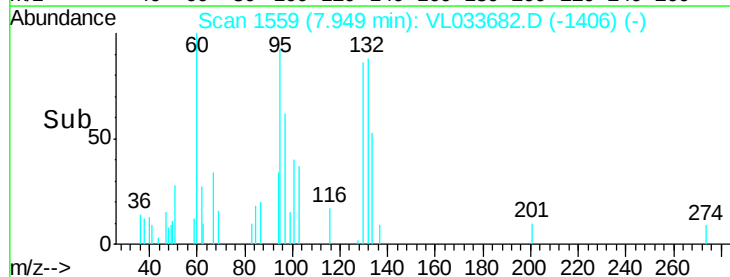
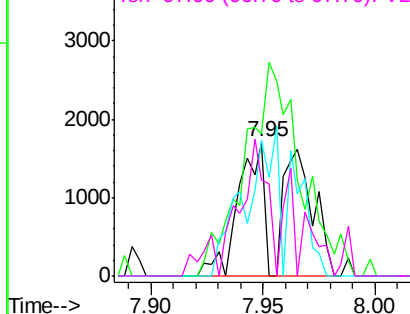
95 106.9 93.4 140.0

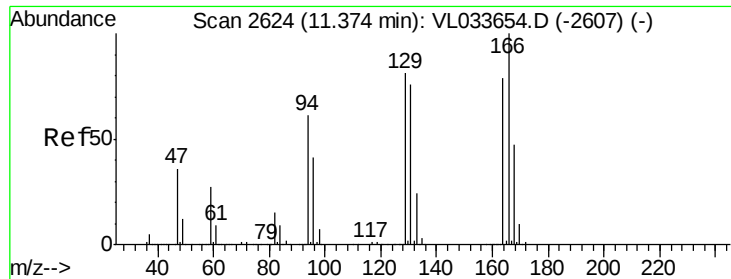
132 101.5 76.2 114.4

97 72.0 62.2 93.4



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): V
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): V





#52

Tetrachloroethene

Concen: 0.044 ppbv m

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:164 Resp: 2840

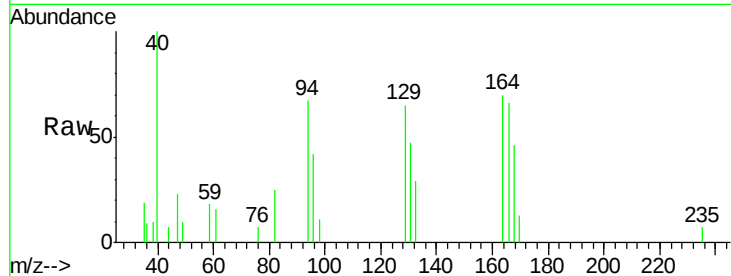
Ion Ratio Lower Upper

164 100

166 94.2 100.6 151.0#

129 93.2 81.0 121.6

131 66.8 76.4 114.6#

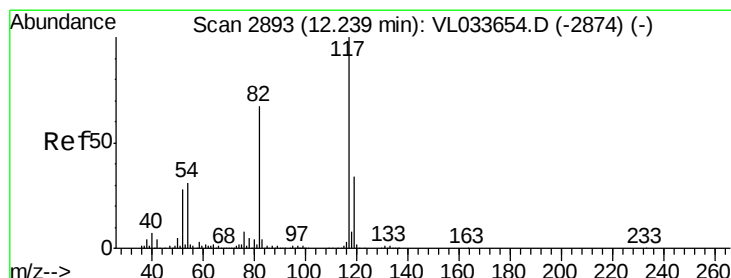
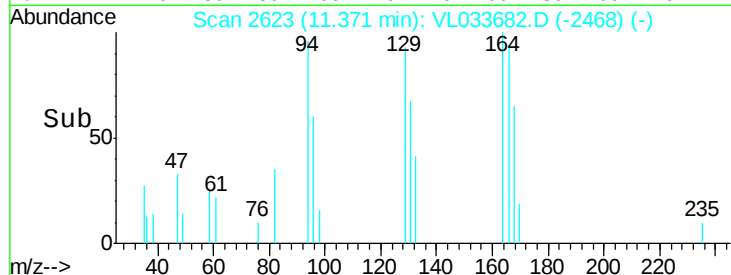
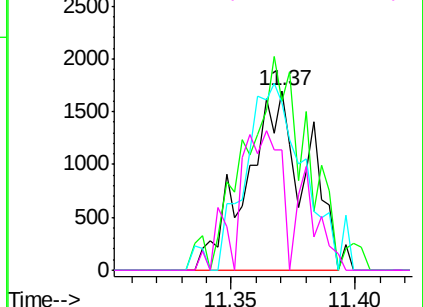


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

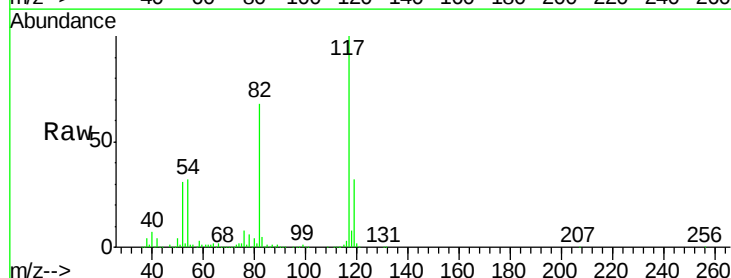
Tgt Ion:117 Resp: 1920334

Ion Ratio Lower Upper

117 100

82 68.1 49.7 74.5

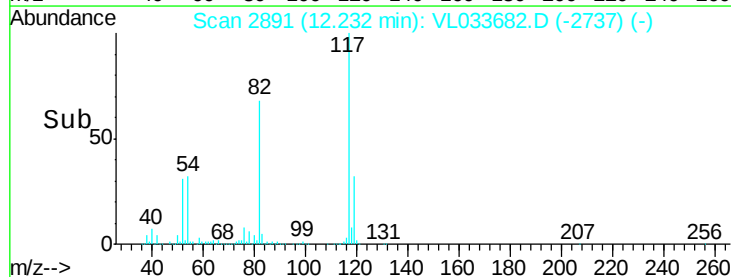
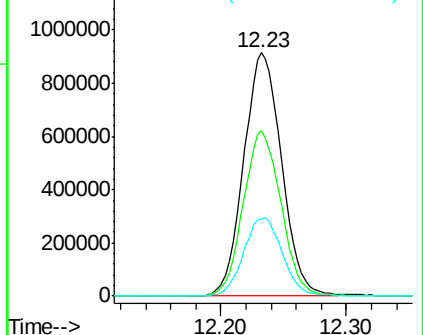
119 33.1 24.8 37.2

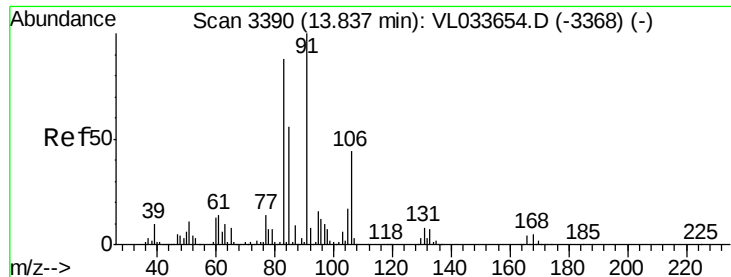


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

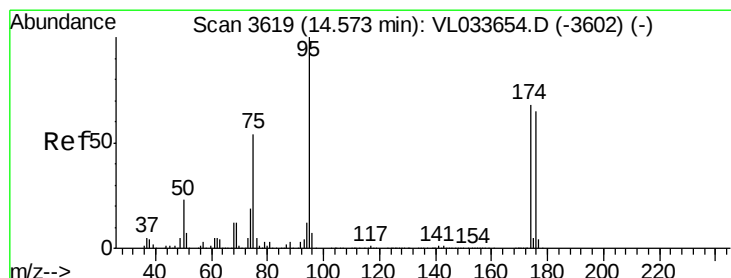
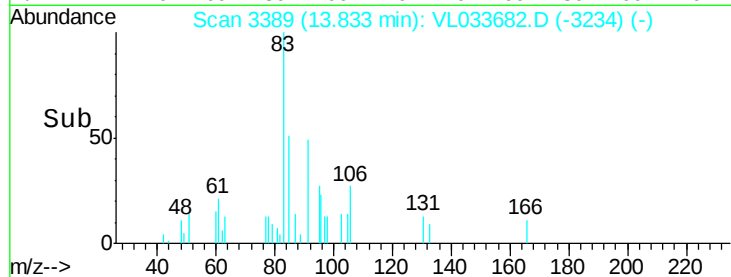
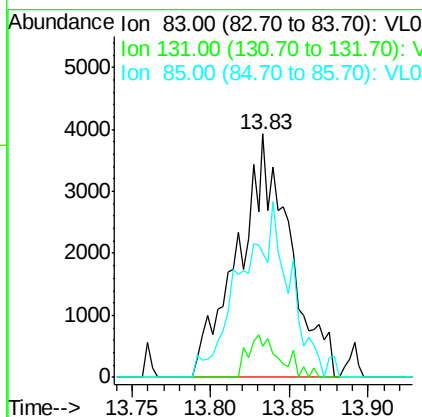
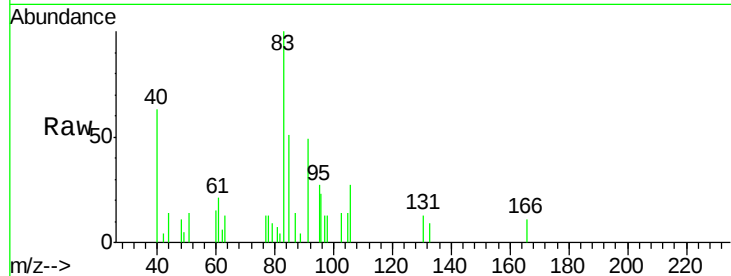




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.055 ppbv m
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion: 83 Resp: 8998
 Ion Ratio Lower Upper
 83 100
 131 10.8 4.8 14.3
 85 0.0 32.5 97.4#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.080 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion: 95 Resp: 1586715
 Ion Ratio Lower Upper
 95 100
 174 66.4 54.0 81.0
 175 4.7 3.8 5.8

