

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
 Data File : VL035795.D
 Acq On : 19 Oct 2020 15:16
 Operator : SY/AP
 Sample : L4214-15 MDL 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Quant Time: Oct 20 08:28:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1095827	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	3938527	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.08	117	3917609	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2931870	9.99	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

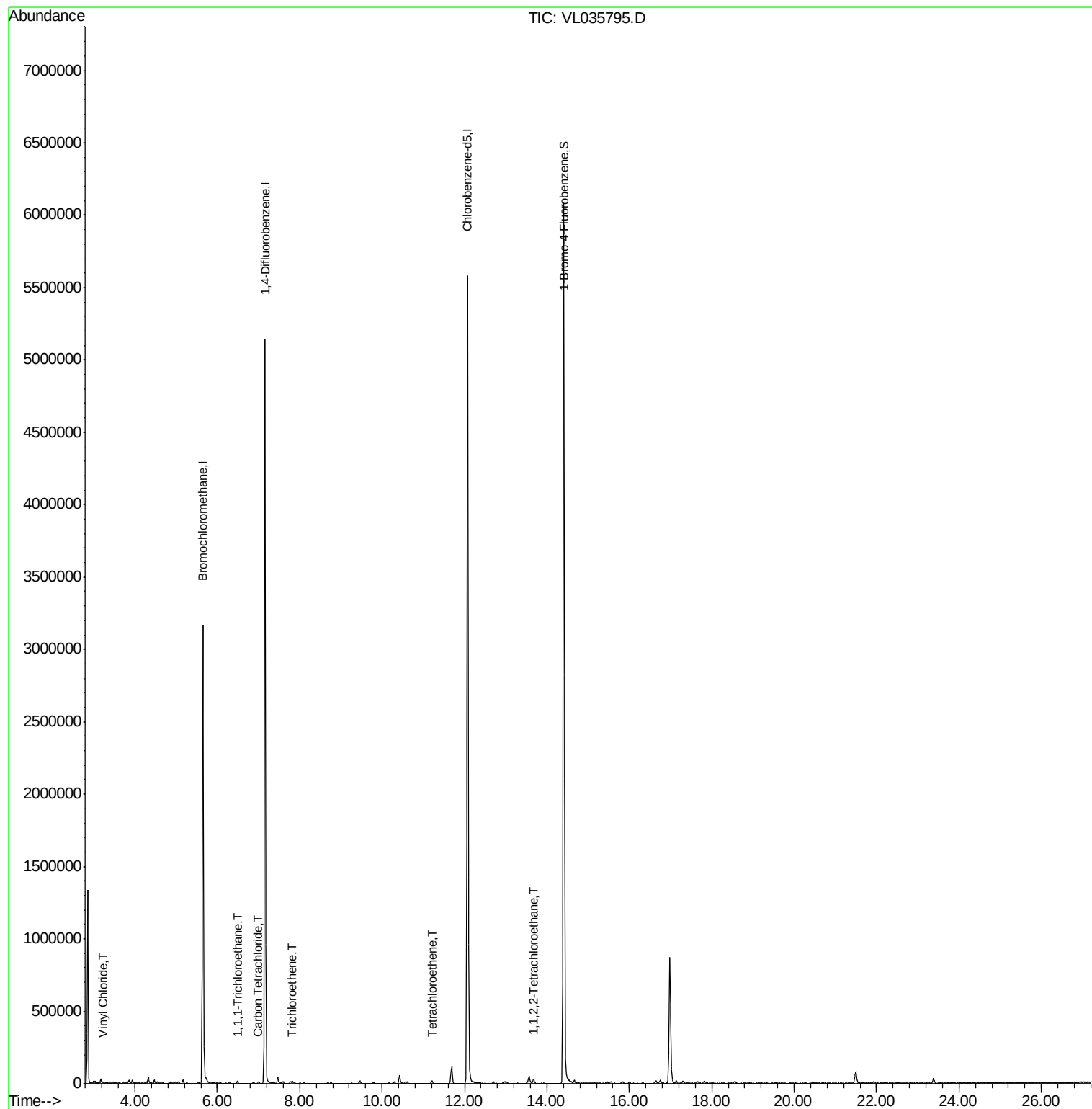
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	3479m	0.046	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	8134m	0.039	ppbv	
35) Carbon Tetrachloride	7.00	117	8587m	0.042	ppbv	
38) Trichloroethene	7.82	130	5030	0.039	ppbv	# 82
52) Tetrachloroethene	11.21	164	4573m	0.037	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	12915m	0.045	ppbv	

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.03 min

Lab File: VL035795.D

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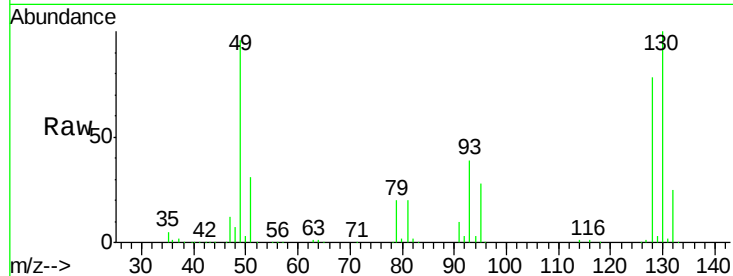
Tot Ion: 49 Resp: 1095827

Ion Ratio Lower Upper

49 100

128 81.1 43.1 129.4

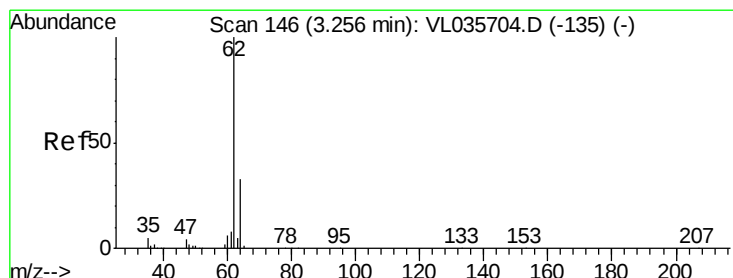
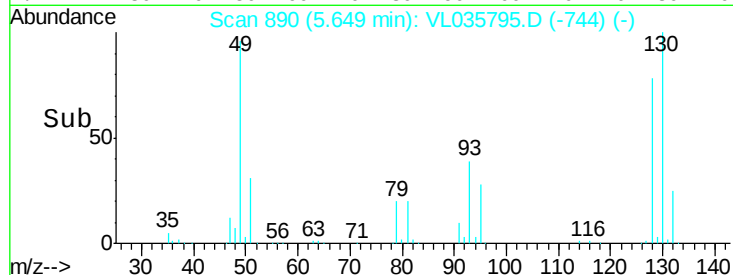
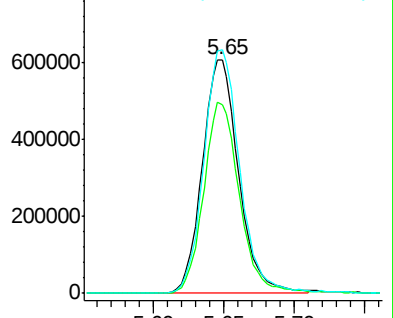
130 104.2 54.9 164.7



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: 0.046 ppbv m

RT: 3.23 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL035795.D

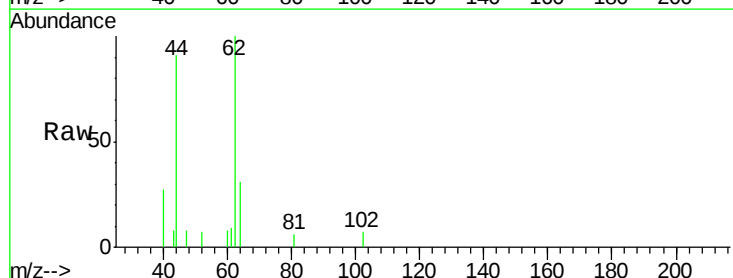
Acq: 19 Oct 2020 15:16

Tgt Ion: 62 Resp: 3479

Ion Ratio Lower Upper

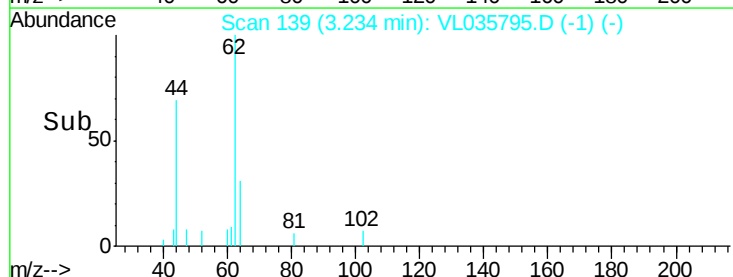
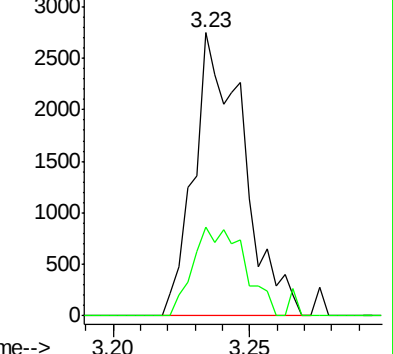
62 100

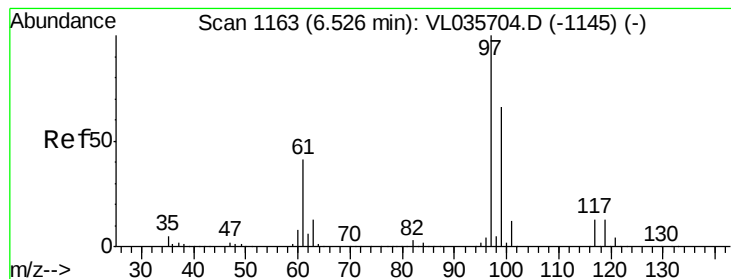
64 31.4 26.8 40.2



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: 0.039 ppbv m

RT: 6.49 min Scan# 1153

Delta R.T. -0.03 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

Instrument :

MSVOA_L

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MDL-AIR-01-QT4-2020

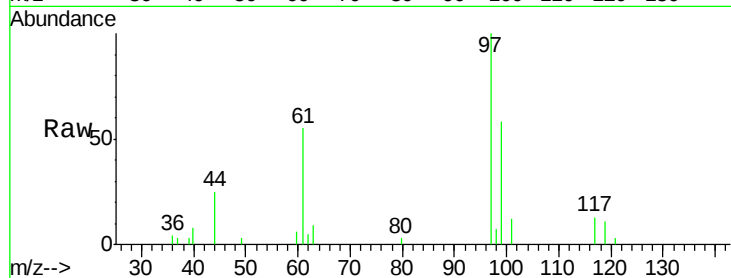
Tot Ion: 97 Resp: 8134

Ion Ratio Lower Upper

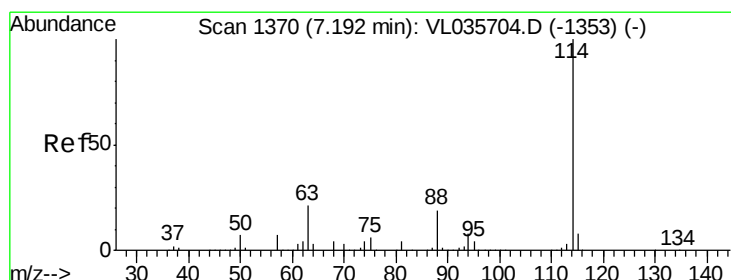
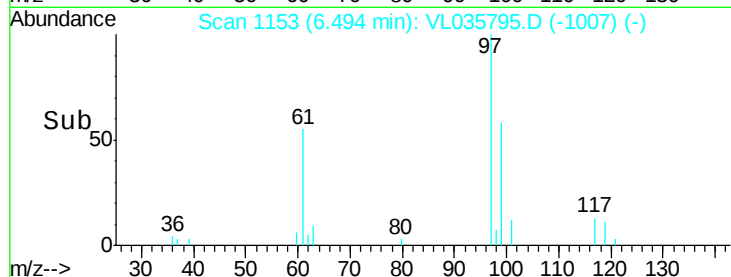
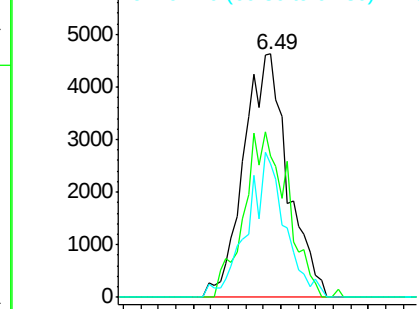
97 100

99 67.3 52.7 79.1

61 50.8 32.7 49.1#



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: 7.16 min Scan# 1359

Delta R.T. -0.04 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

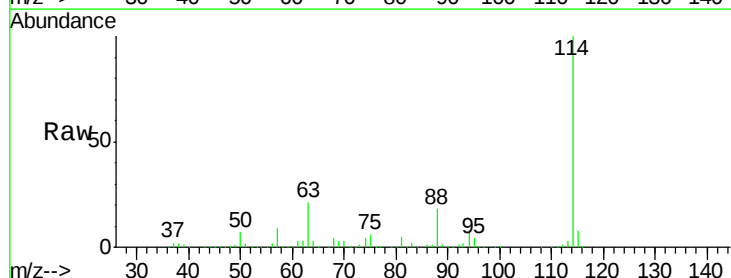
Tgt Ion: 114 Resp: 3938527

Ion Ratio Lower Upper

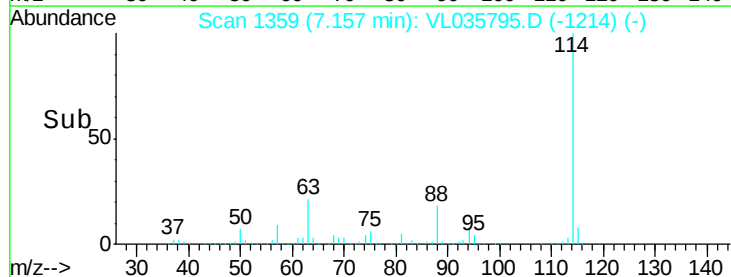
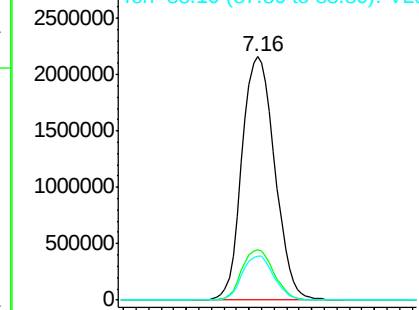
114 100

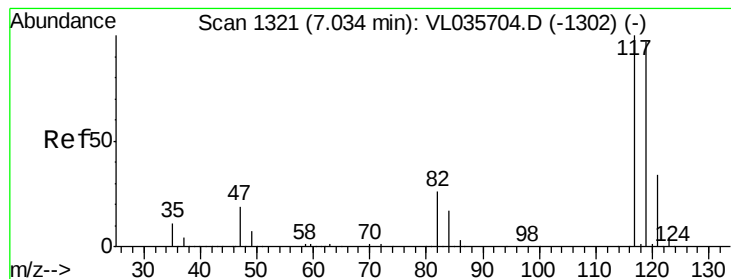
63 20.3 16.1 24.1

88 17.6 14.1 21.1



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: 0.042 ppbv m

RT: 7.00 min Scan# 1309

Delta R.T. -0.04 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

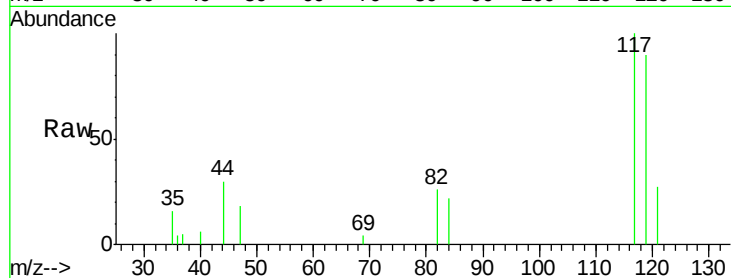
Tot Ion:117 Resp: 8587

Ion Ratio Lower Upper

117 100

119 90.4 77.7 116.5

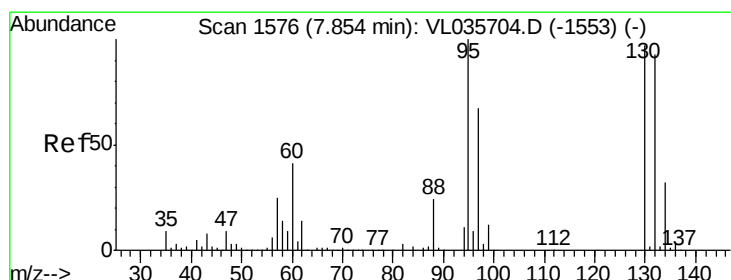
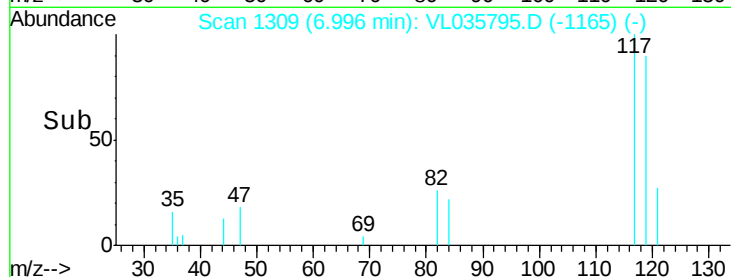
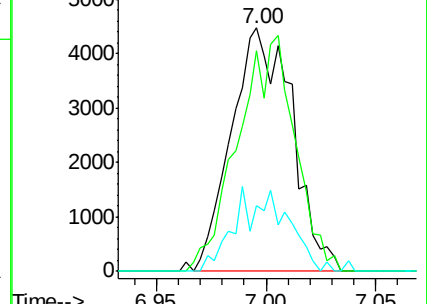
121 26.9 26.9 40.3



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: 0.039 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. -0.04 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

Tgt Ion:130 Resp: 5030

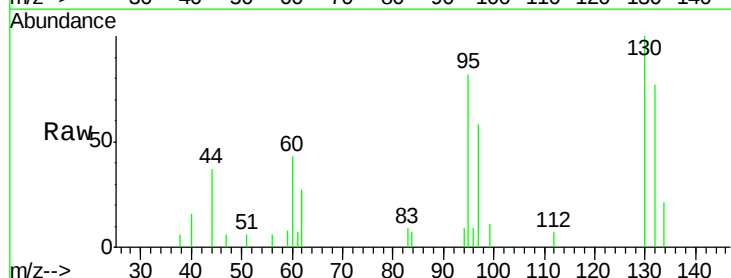
Ion Ratio Lower Upper

130 100

95 81.7 82.4 123.6#

132 76.9 76.8 115.2

97 58.3 55.4 83.2

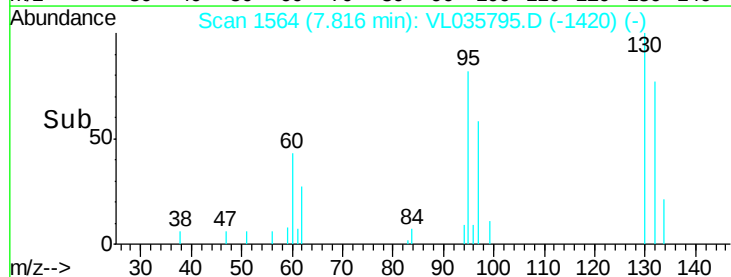
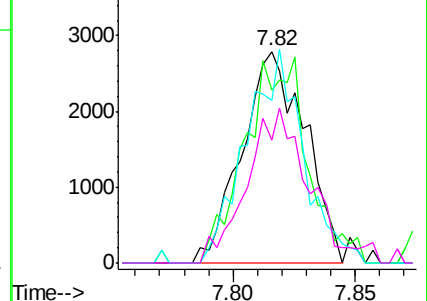


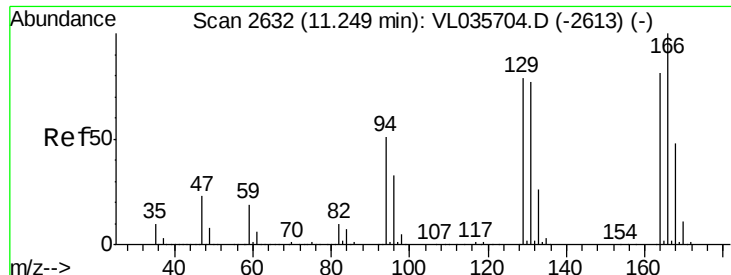
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.037 ppbv m

RT: 11.21 min Scan# 2619

Delta R.T. -0.04 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion:164 Resp: 4573

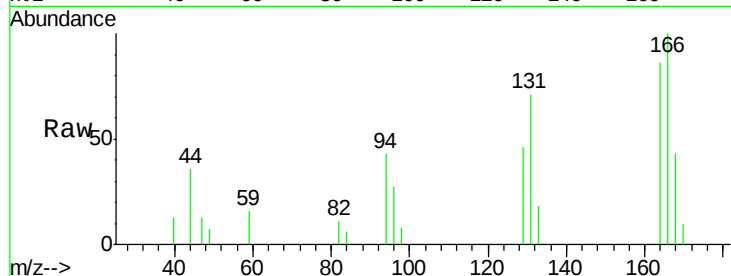
Ion Ratio Lower Upper

164 100

166 115.9 98.7 148.1

129 53.2 78.4 117.6#

131 82.6 76.2 114.2

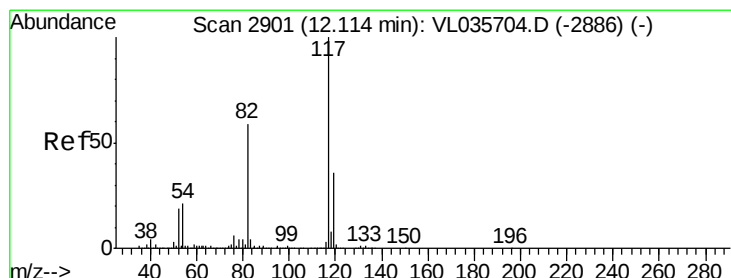
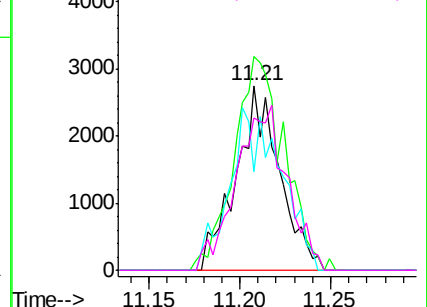
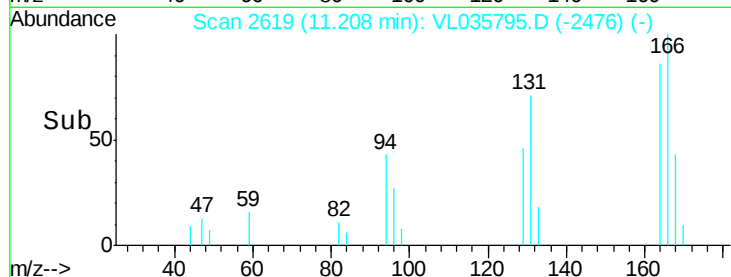


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.08 min Scan# 2889

Delta R.T. -0.04 min

Lab File: VL035795.D

Acq: 19 Oct 2020 15:16

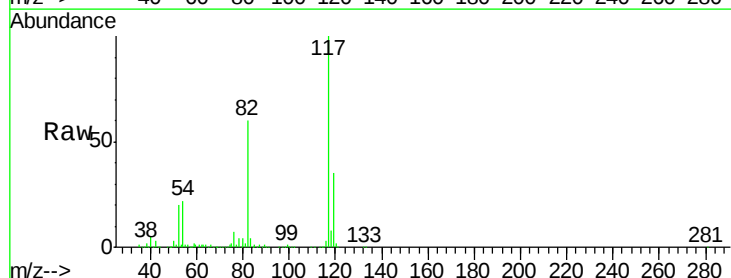
Tgt Ion:117 Resp: 3917609

Ion Ratio Lower Upper

117 100

82 59.3 46.1 69.1

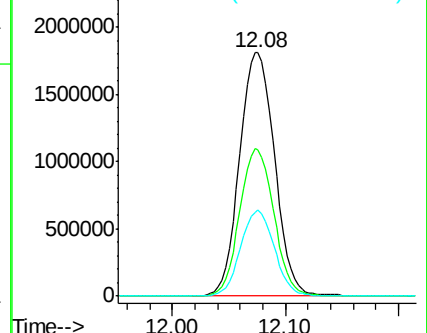
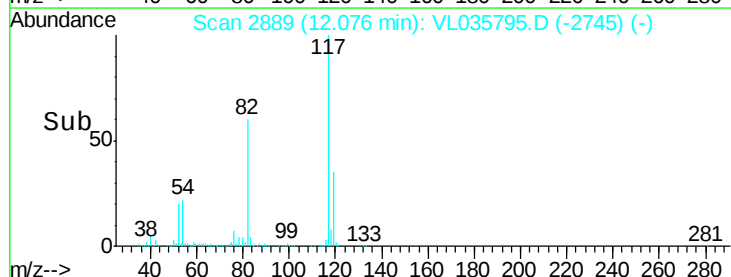
119 34.2 28.0 42.0

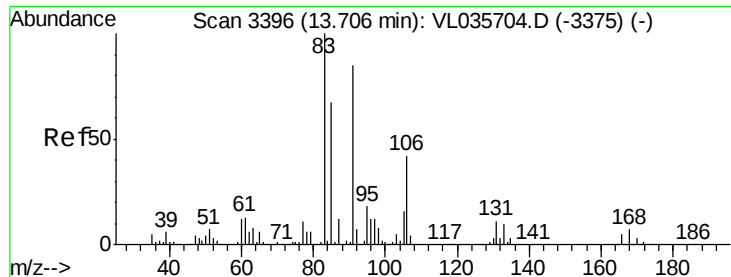


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

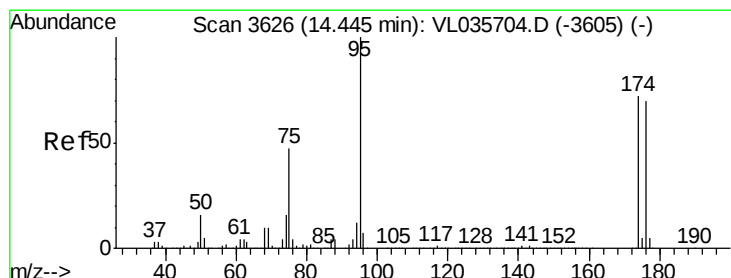
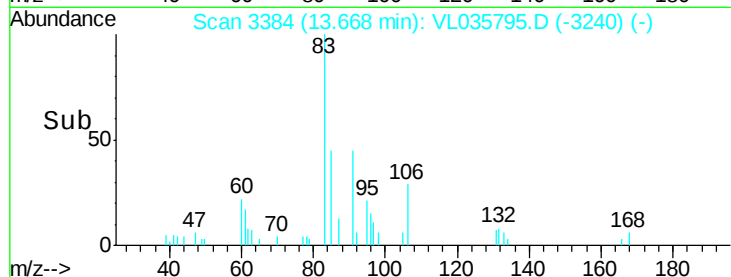
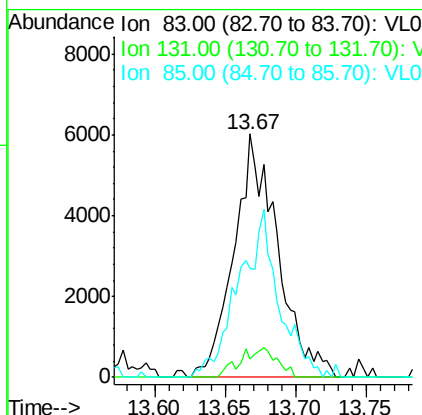
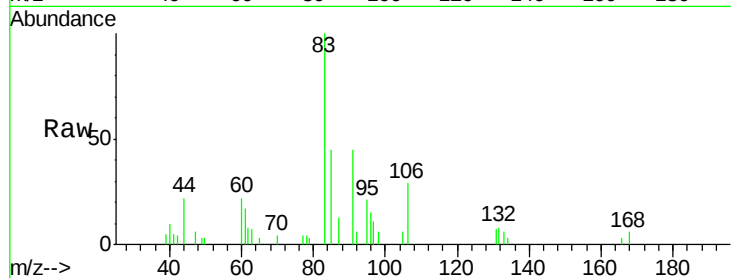




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.045 ppbv m
 RT: 13.67 min Scan# 3384
 Delta R.T. -0.04 min
 Lab File: VL035795.D
 Acq: 19 Oct 2020 15:16

Instrument :
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 ClientSampleId :
 MDL-AIR-01-QT4-2020

Tot Ion: 83 Resp: 12915
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 33.4 100.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.987 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.04 min
 Lab File: VL035795.D
 Acq: 19 Oct 2020 15:16

Tgt Ion: 95 Resp: 2931870
 Ion Ratio Lower Upper
 95 100
 174 76.0 59.6 89.4
 175 5.5 4.2 6.4

