

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036963.D
 Acq On : 18 May 2021 11:24
 Operator : SY/AP
 Sample : M2262-14 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Manual Integrations
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 5/20/2021 5:54:55 PM

Quant Time: May 19 03:33:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1239064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3695377	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3397494	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2473868	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	4011m	0.048	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	10511m	0.044	ppbv	
35) Carbon Tetrachloride	6.99	117	10210m	0.042	ppbv	
38) Trichloroethene	7.81	130	6139m	0.045	ppbv	
52) Tetrachloroethene	11.20	164	6492m	0.051	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	13325m	0.047	ppbv	

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

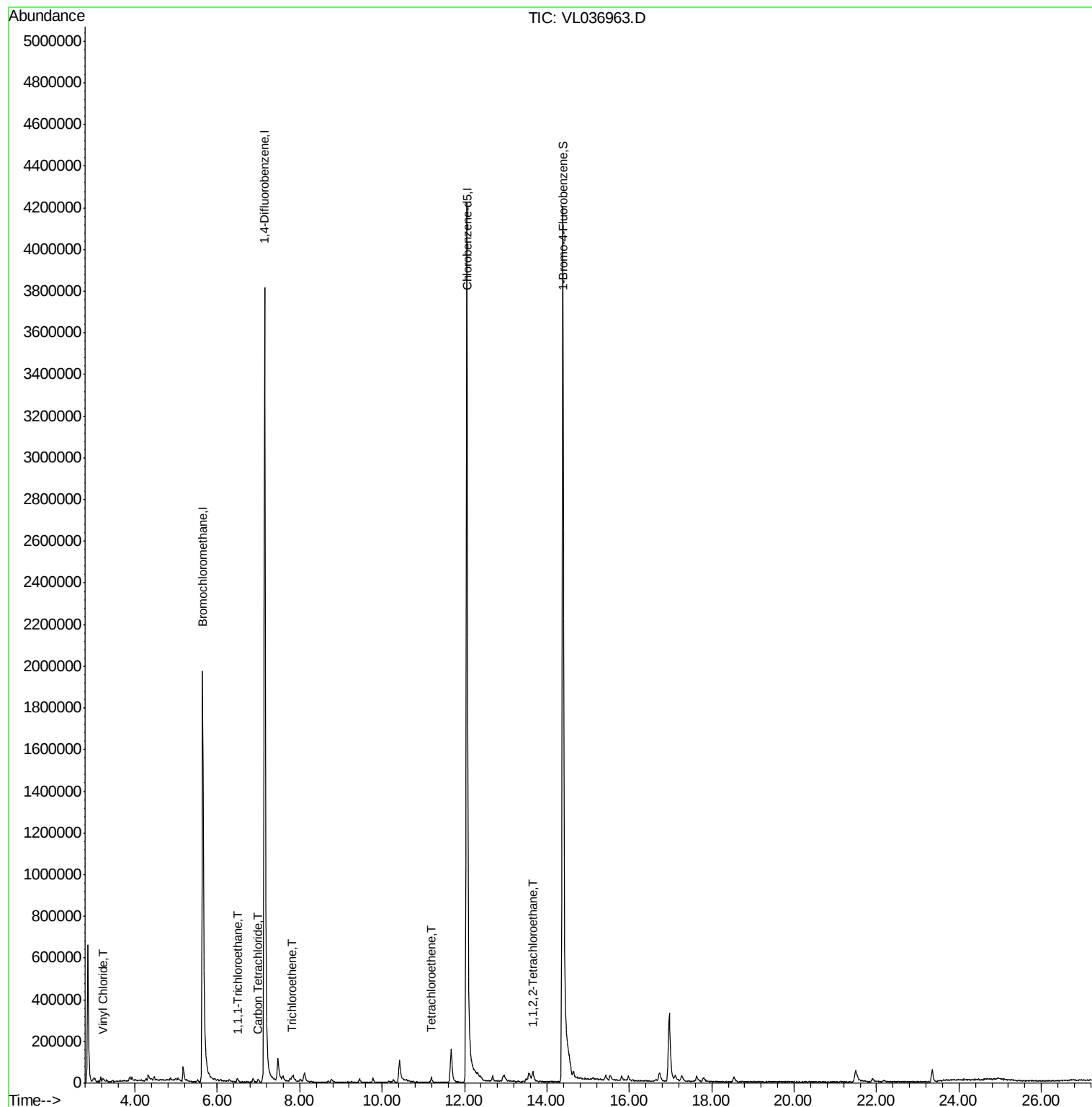
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051821\
Data File : VL036963.D
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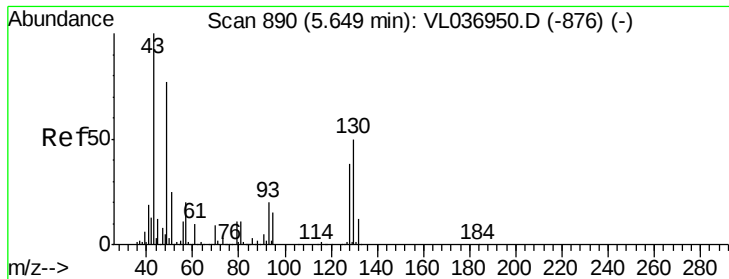
Instrument :
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#1

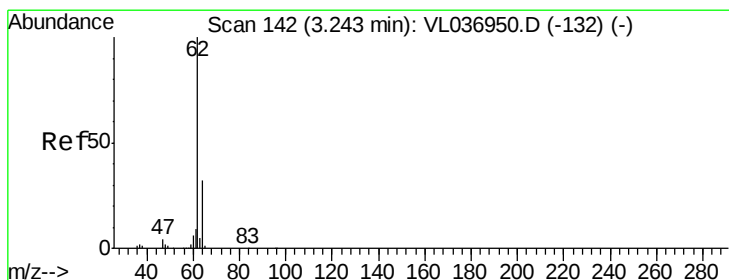
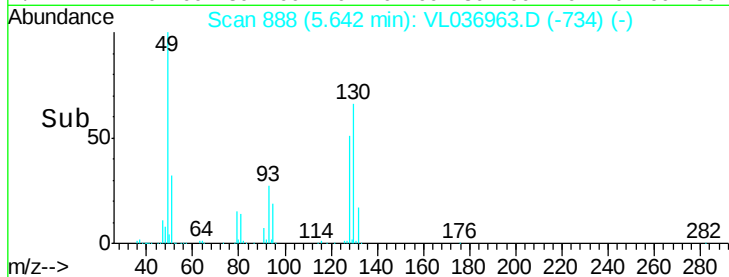
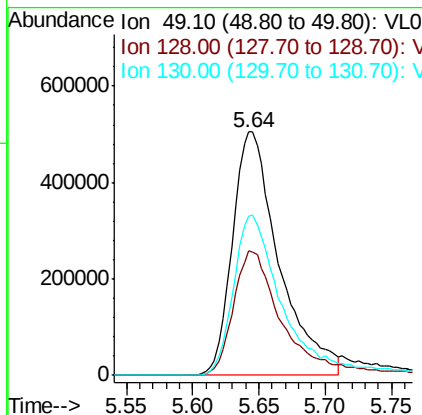
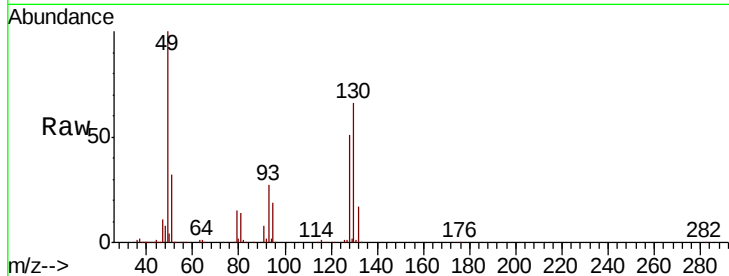
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.01 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Tot Ion: 49 Resp: 1239064
 Ion Ratio Lower Upper
 49 100
 128 56.0 26.9 80.7
 130 72.9 33.8 101.4

Manual Integrations
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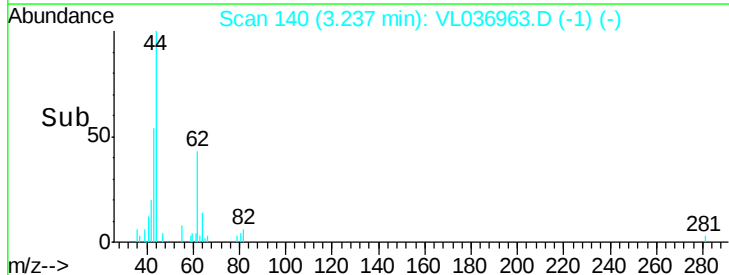
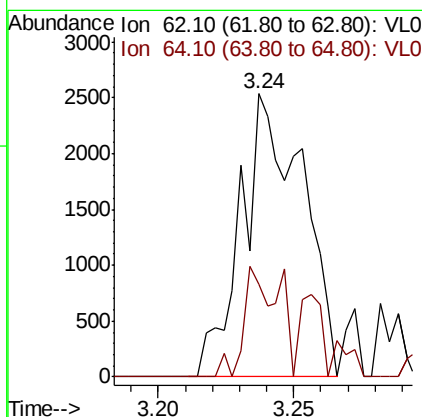
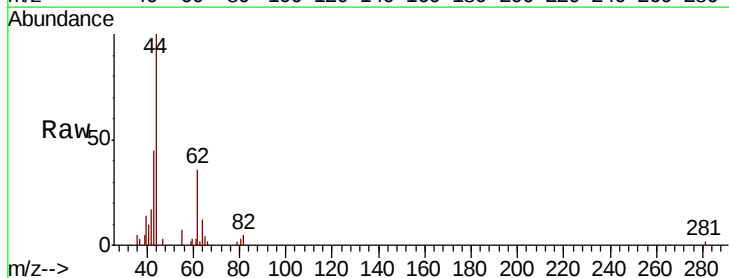
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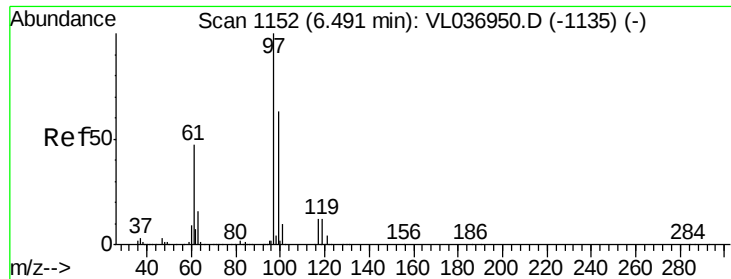


#5

Vinyl Chloride
 Concen: 0.048 ppbv m
 RT: 3.24 min Scan# 140
 Delta R.T. -0.01 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Tgt Ion: 62 Resp: 4011
 Ion Ratio Lower Upper
 62 100
 64 32.7 25.9 38.9





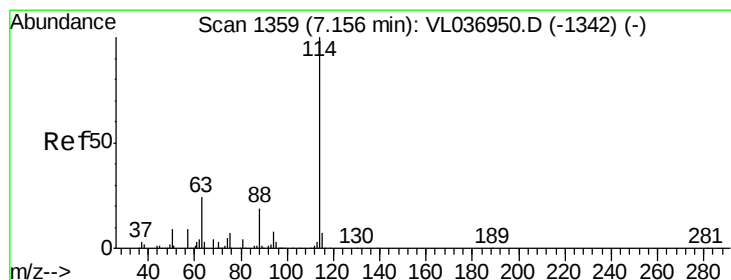
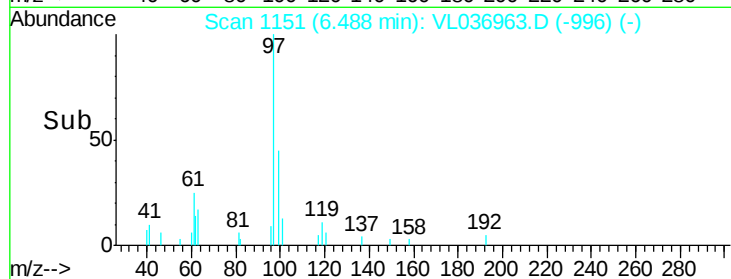
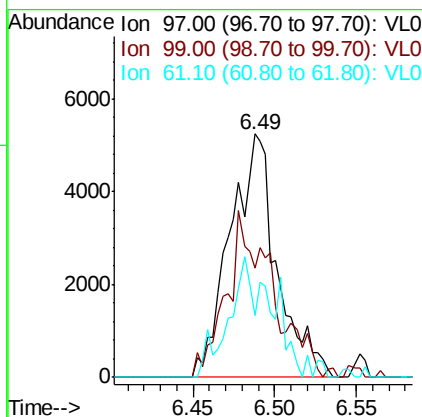
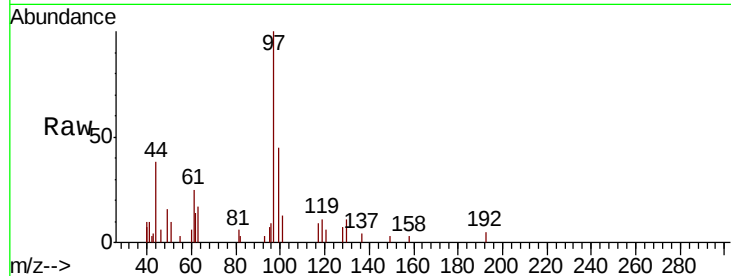
#32
 1,1,1-Trichloroethane
 Concen: 0.044 ppbv m
 RT: 6.49 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2021

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.9	77.9#
61	0.0	37.6	56.4#

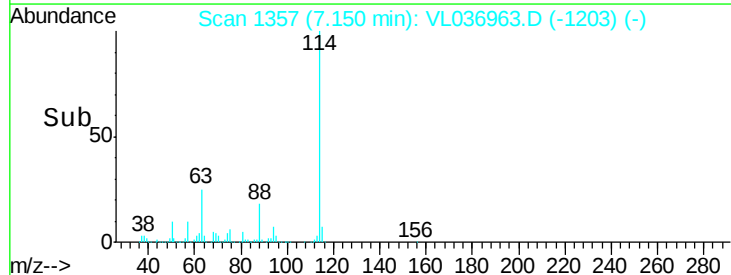
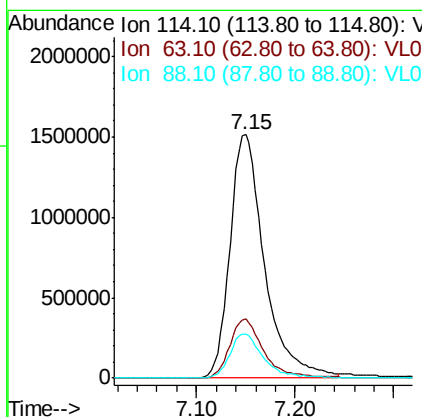
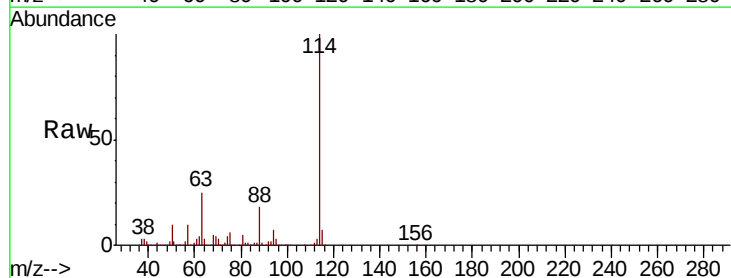
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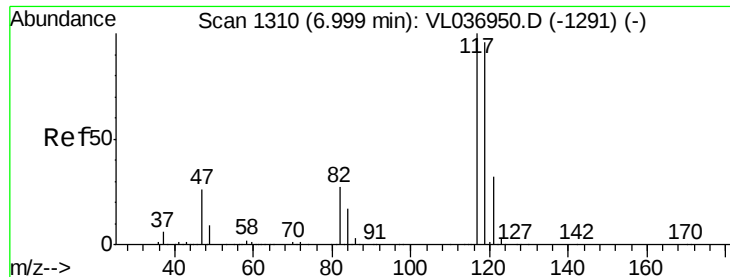
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036963.D
 Acq: 18 May 2021 11:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	18.1	14.6	21.8





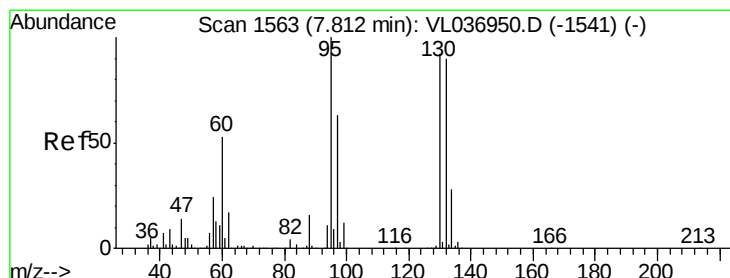
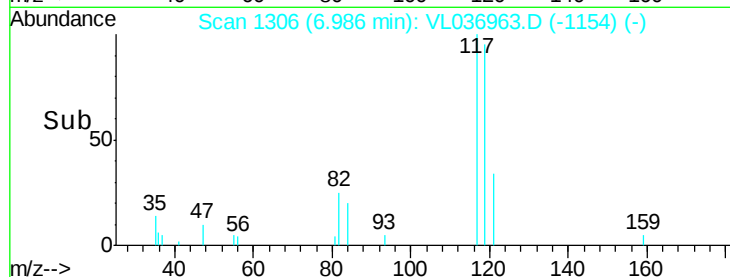
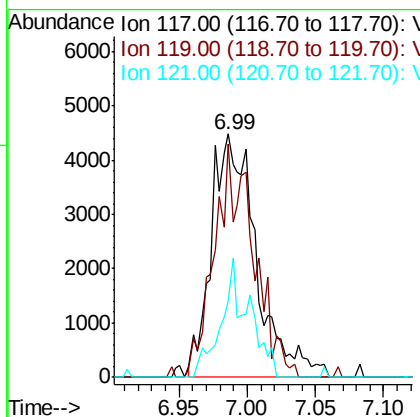
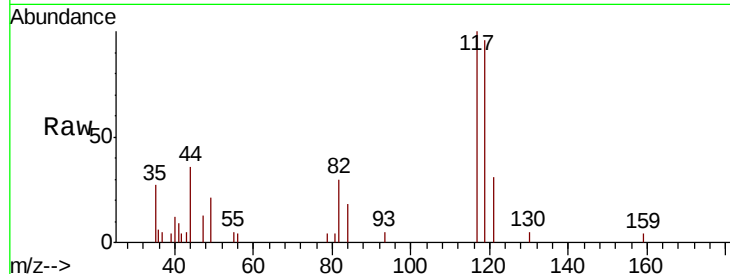
#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 6.99 min Scan# 1306
Delta R.T. -0.01 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2021

Tot Ion	Ratio	Resp	Lower	Upper
117	100	10210		
119	95.9	76.6	114.8	
121	31.3	25.8	38.6	

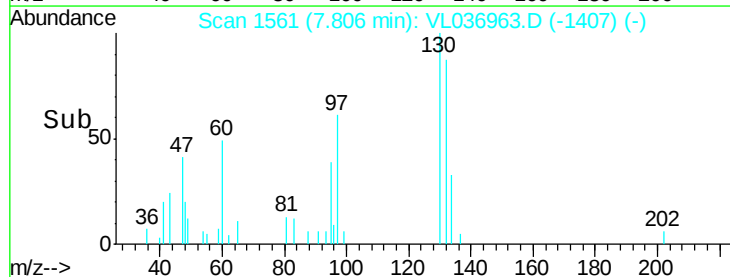
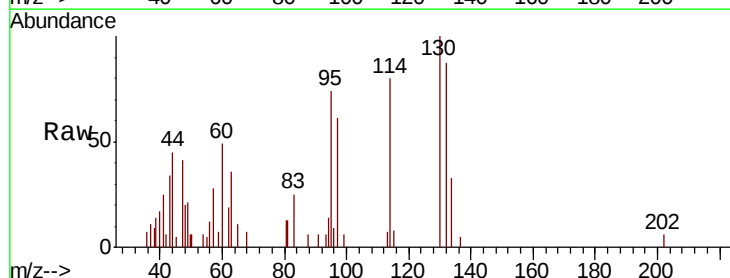
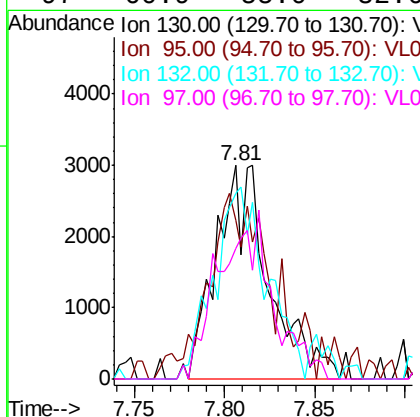
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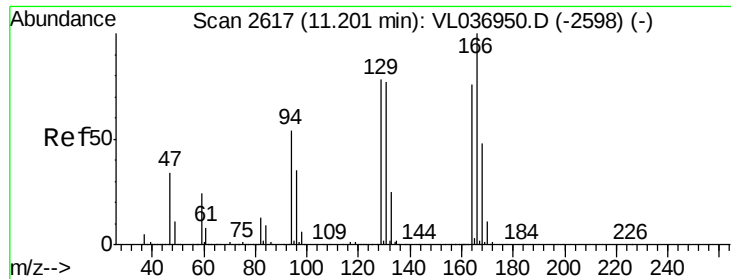
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#38
Trichloroethene
Concen: 0.045 ppbv m
RT: 7.81 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL036963.D
Acq: 18 May 2021 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6139		
95	74.2	86.9	130.3#	
132	87.2	78.4	117.6	
97	60.9	55.0	82.6	





#52

Tetrachloroethene

Concen: 0.051 ppbv m

RT: 11.20 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

Tot Ion:164 Resp: 6492

Ion Ratio Lower Upper

164 100

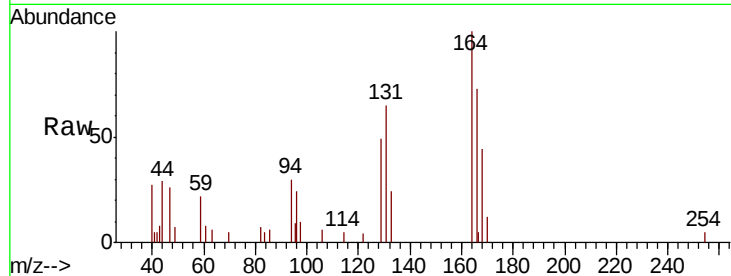
166 73.1 105.5 158.3#

129 48.6 81.8 122.8#

131 65.5 81.2 121.8#

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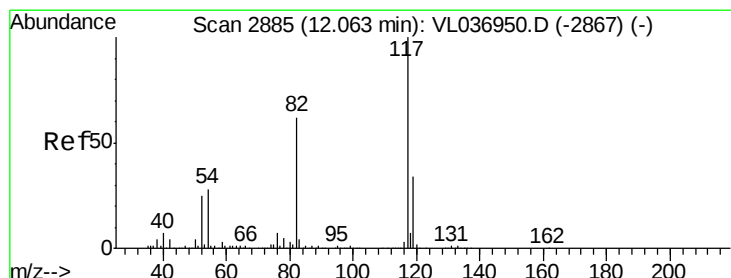
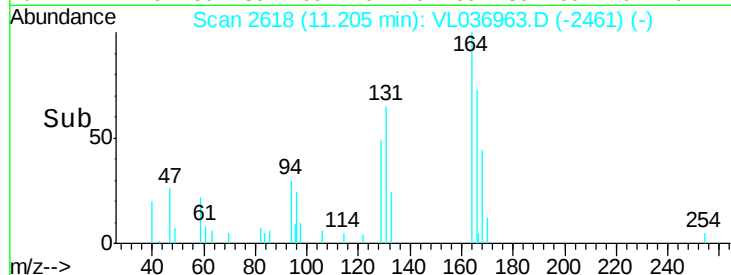
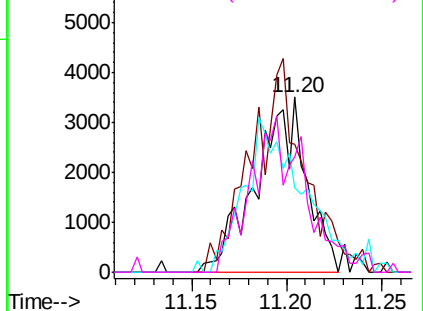


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.06 min Scan# 2883

Delta R.T. -0.01 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

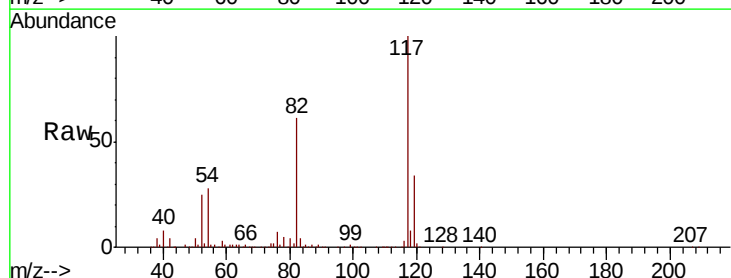
Tgt Ion:117 Resp: 3397494

Ion Ratio Lower Upper

117 100

82 62.8 52.6 79.0

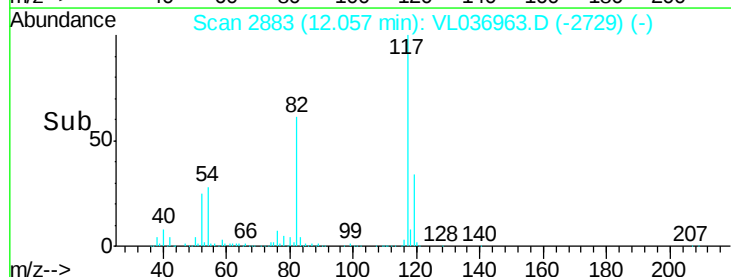
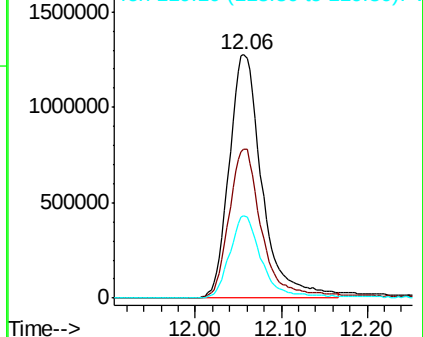
119 33.8 46.6 70.0#

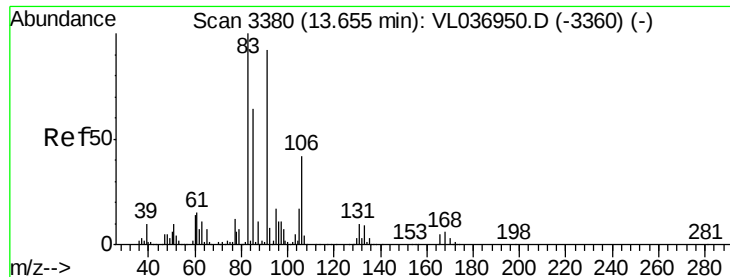


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.047 ppbv m

RT: 13.66 min Scan# 3382

Delta R.T. 0.01 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2021

Tot Ion: 83 Resp: 13325
Ion Ratio Lower Upper

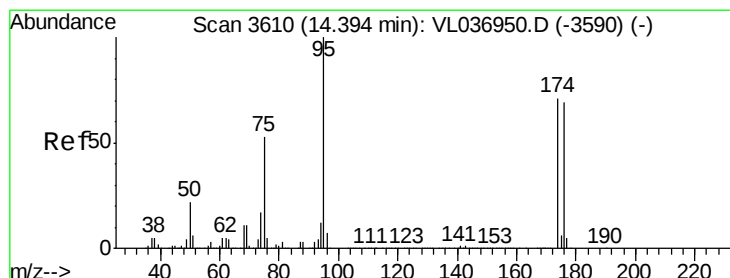
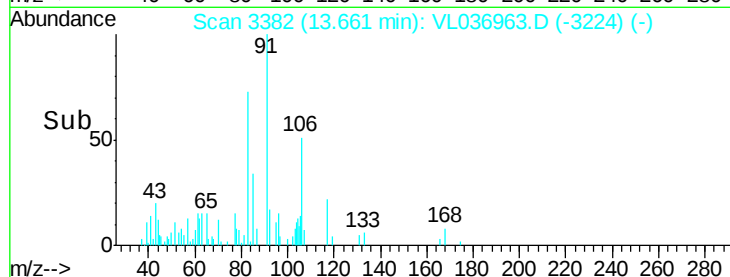
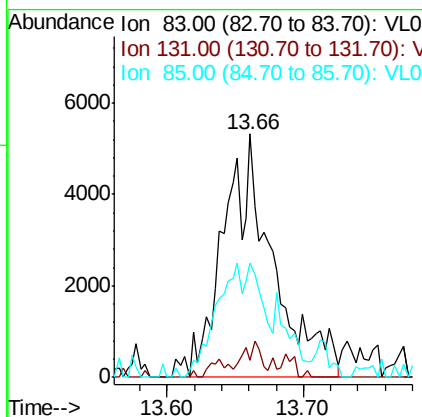
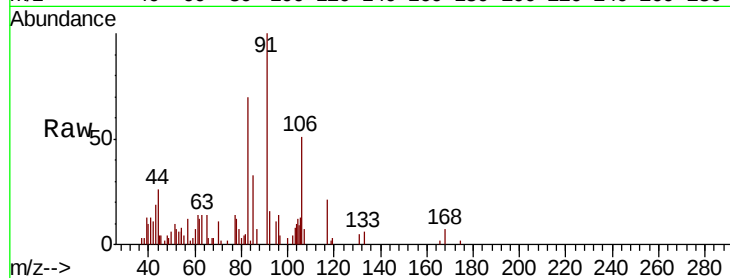
83 100

131 0.0 5.0 15.0#

85 0.0 32.9 98.6#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.693 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.01 min

Lab File: VL036963.D

Acq: 18 May 2021 11:24

Tgt Ion: 95 Resp: 2473868
Ion Ratio Lower Upper

95 100

174 78.7 58.4 87.6

175 5.8 4.4 6.6

