

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081821\
 Data File : VL037488.D
 Acq On : 18 Aug 2021 12:58
 Operator : SY/AP
 Sample : M2940-15 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2021

Manual Integrations
 APPROVED

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 8/19/2021 5:57:48 PM

Quant Time: Aug 19 02:06:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 18 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1389358	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4065806	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3334275	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2443682	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	4198m	0.043	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	10490m	0.043	ppbv	
35) Carbon Tetrachloride	7.01	117	11031m	0.046	ppbv	
38) Trichloroethene	7.82	130	5754m	0.041	ppbv	
52) Tetrachloroethene	11.20	164	6499m	0.046	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	14812m	0.053	ppbv	

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

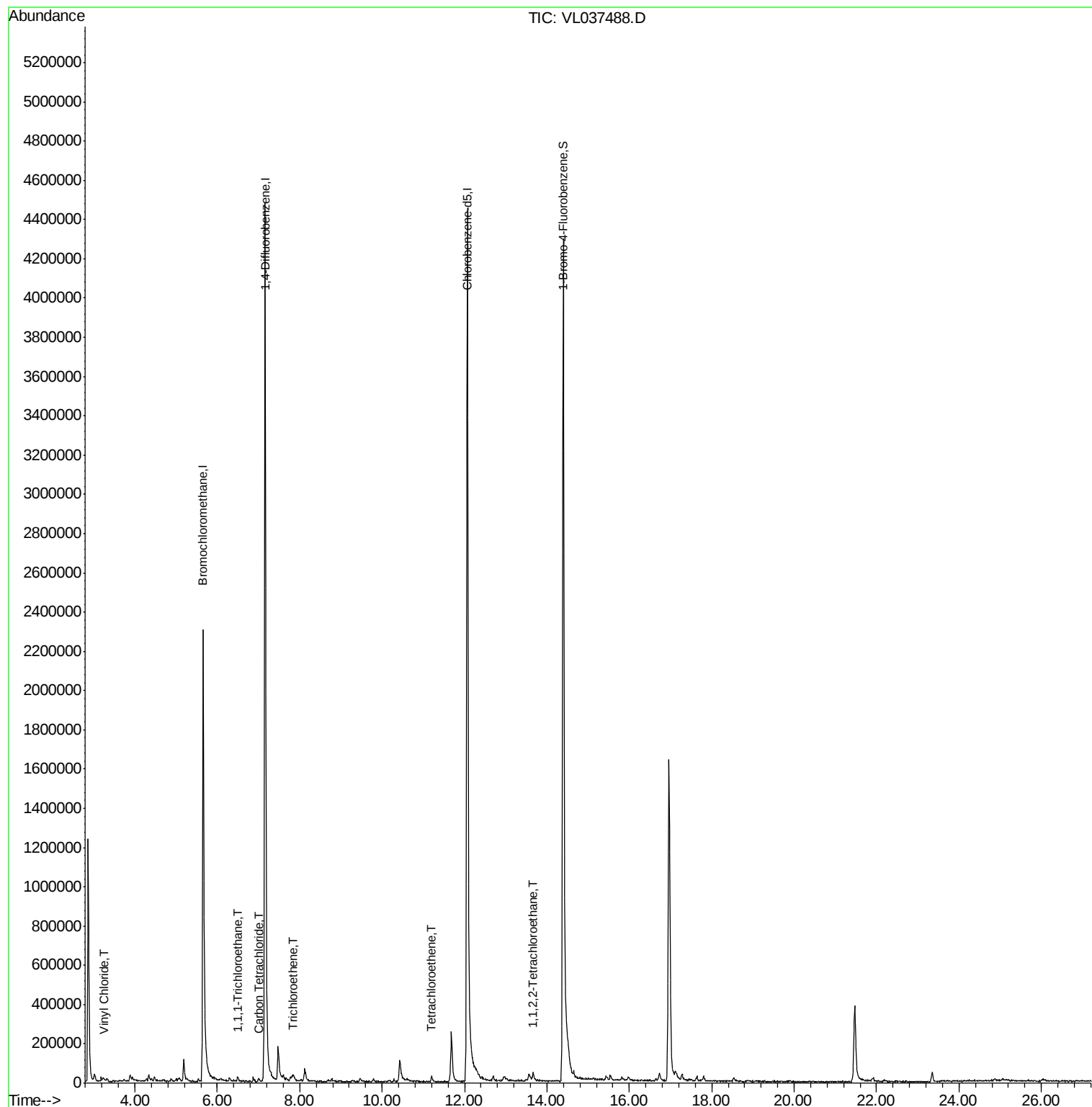
Data Path : Y:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081821\
Data File : VL037488.D
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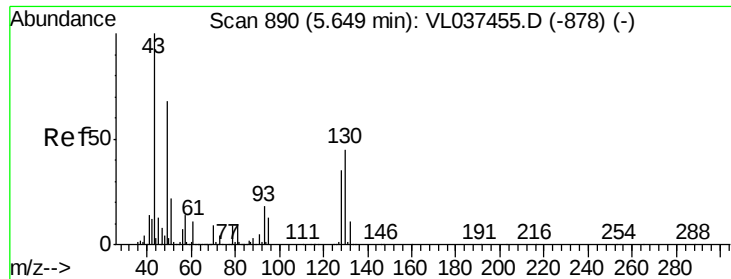
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#1

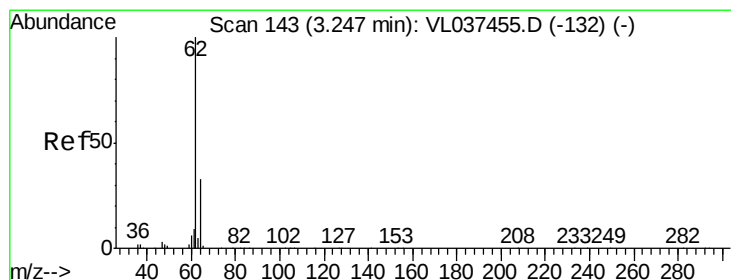
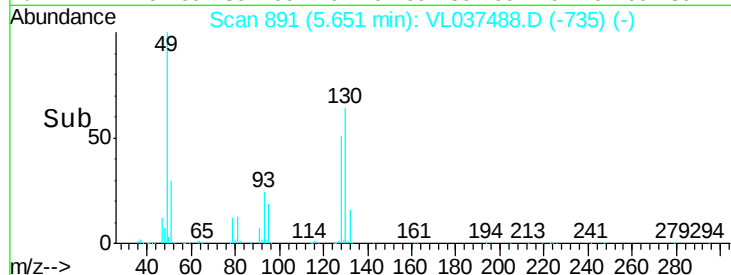
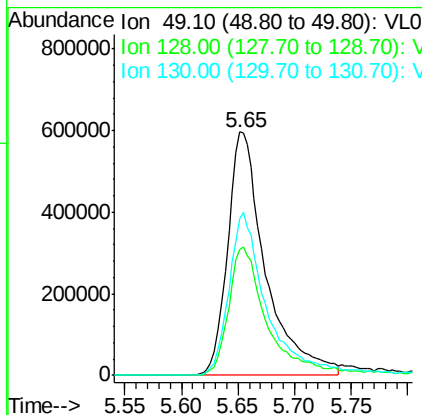
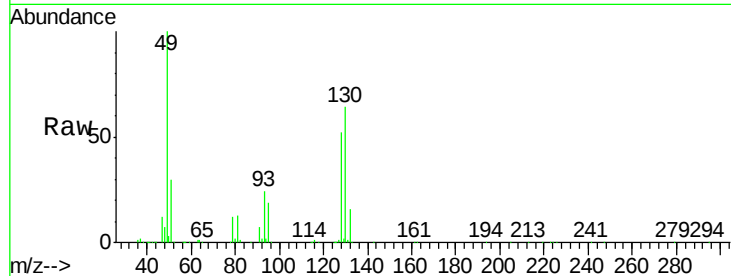
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2021

Tot Ion	Ratio	Lower	Upper
49	100		
128	56.6	27.5	82.4
130	68.7	34.0	101.8

Manual Integrations
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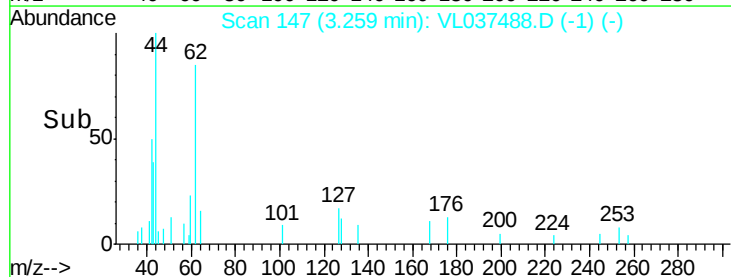
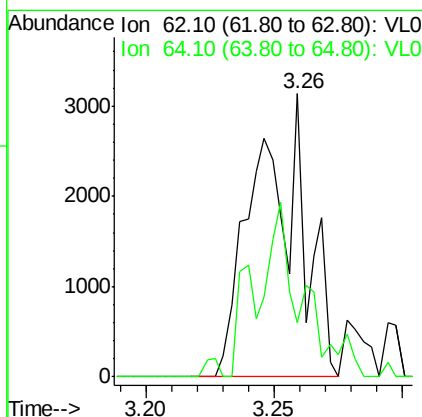
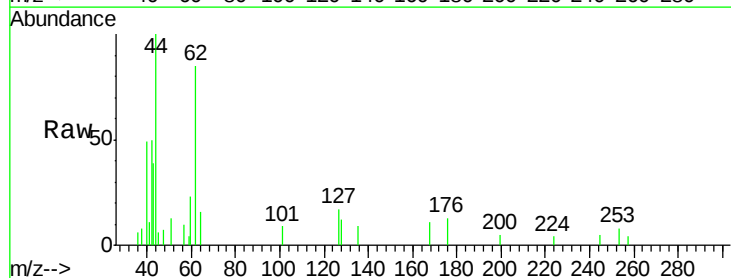
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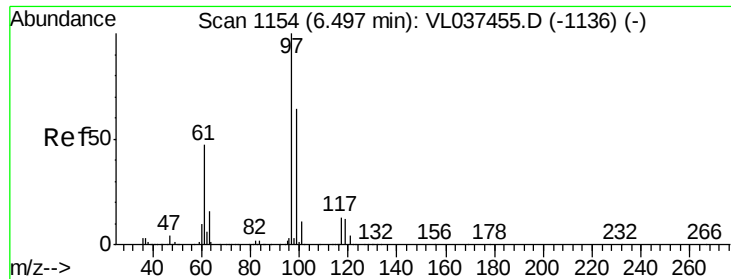


#5

Vinyl Chloride
 Concen: 0.043 ppbv m
 RT: 3.26 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

Tgt Ion	Ratio	Lower	Upper
62	100		
64	19.3	26.5	39.7





#32

1,1,1-Trichloroethane

Concen: 0.043 ppbv m

RT: 6.50 min Scan# 1156

Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

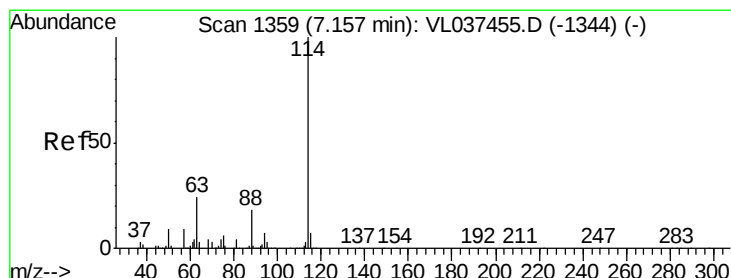
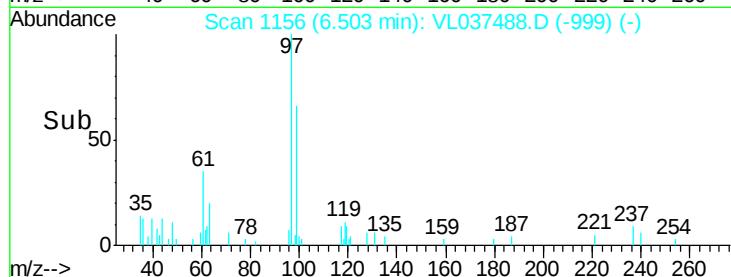
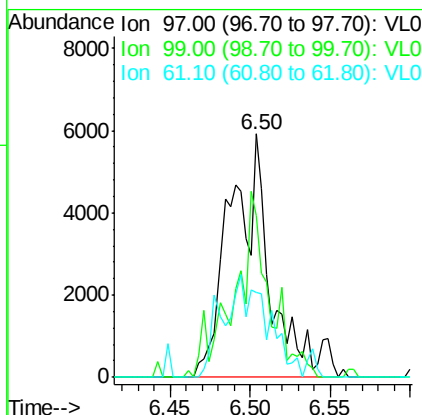
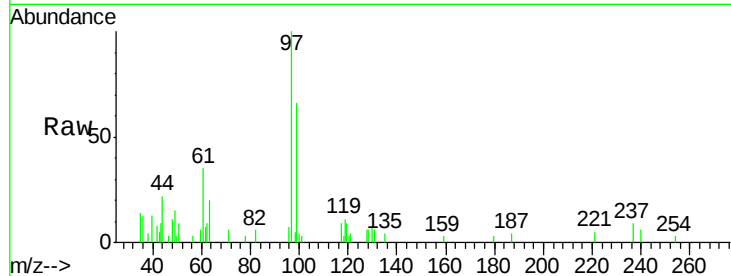
ClientSampleId :

MDL-AIR-03-QT3-2021

Tot Ion:	97	Resp:	10490
Ion Ratio	Lower	Upper	
97	100		
99	64.9	51.8	77.6
61	0.0	39.6	59.4#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

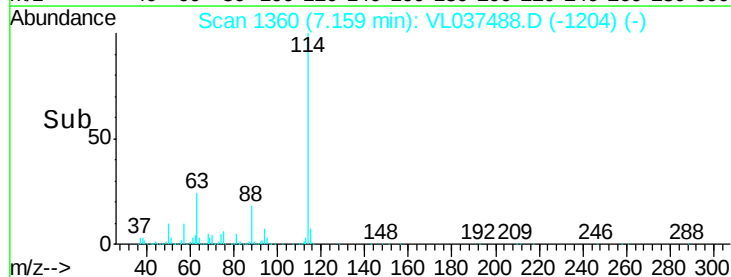
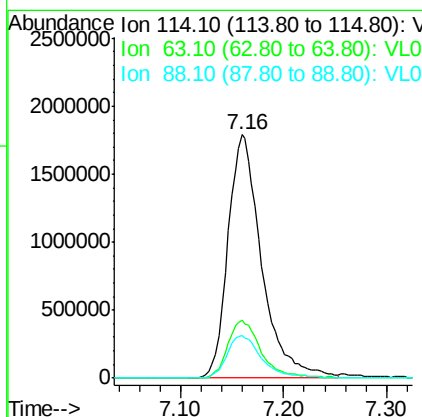
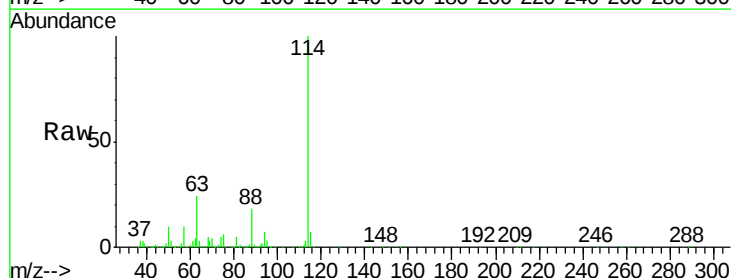
RT: 7.16 min Scan# 1360

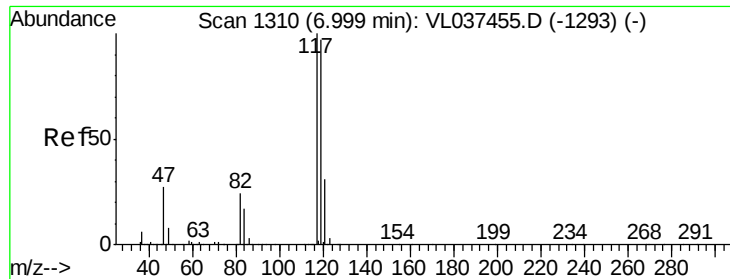
Delta R.T. 0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Tgt Ion:	114	Resp:	4065806
Ion Ratio	Lower	Upper	
114	100		
63	24.1	19.3	28.9
88	18.2	14.2	21.4





#35

Carbon Tetrachloride

Concen: 0.046 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

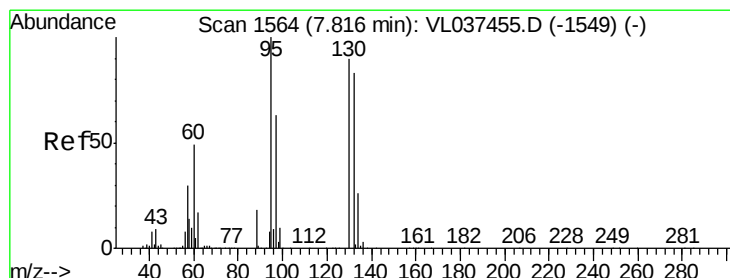
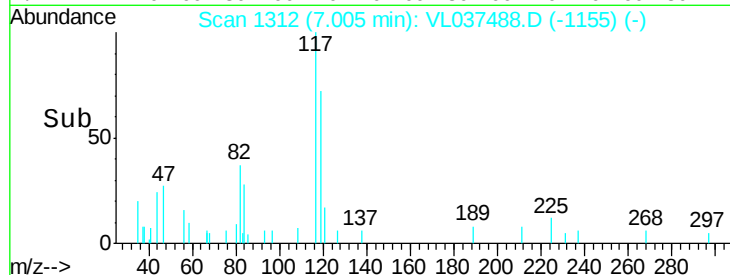
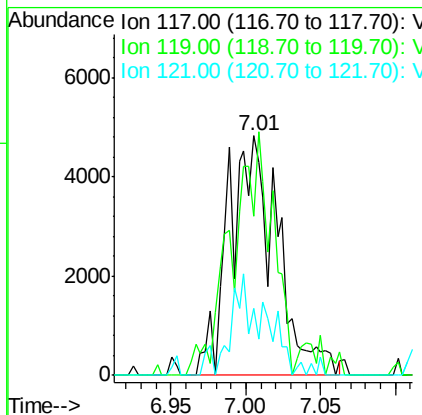
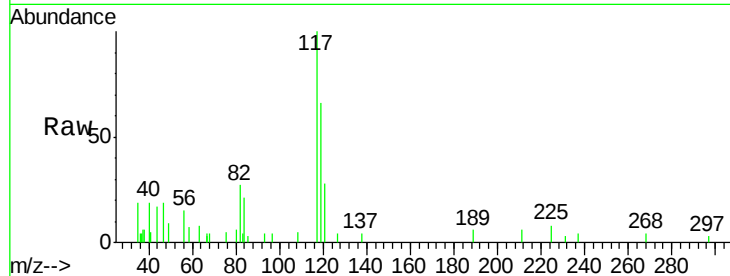
ClientSampleId :

MDL-AIR-03-QT3-2021

Tot Ion:	117	Resp:	11031
Ion Ratio	Lower	Upper	
117	100		
119	66.3	77.3	115.9#
121	27.8	25.2	37.8

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#38

Trichloroethene

Concen: 0.041 ppbv m

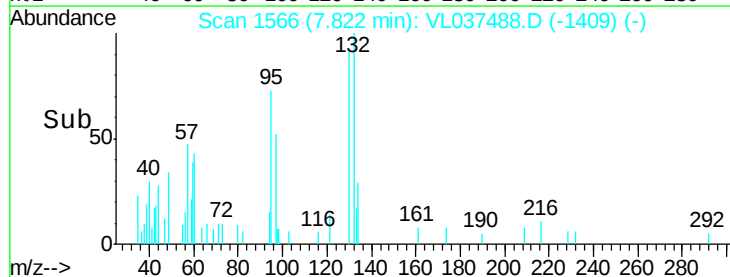
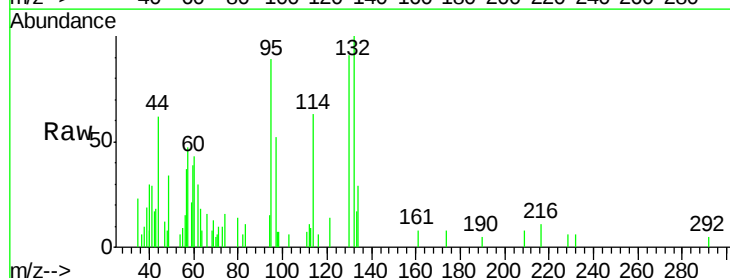
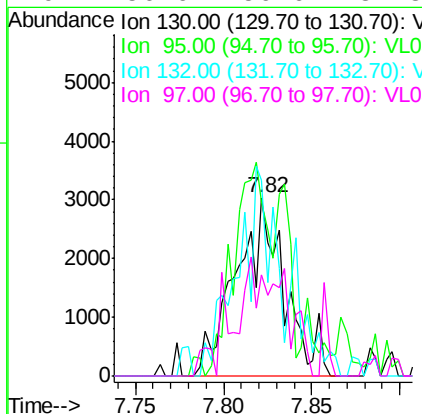
RT: 7.82 min Scan# 1566

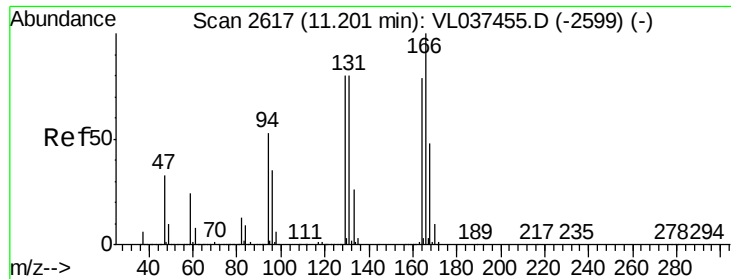
Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Tgt Ion:	130	Resp:	5754
Ion Ratio	Lower	Upper	
130	100		
95	97.2	89.2	133.8
132	109.5	74.0	111.0
97	56.6	56.6	84.8





#52

Tetrachloroethene

Concen: 0.046 ppbv m

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2021

Tot Ion:164 Resp: 6499

Ion Ratio Lower Upper

164 100

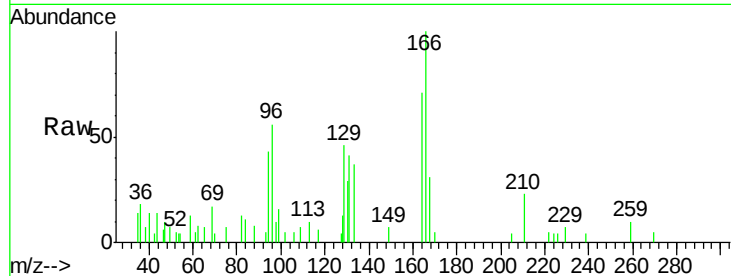
166 139.9 100.7 151.1

129 64.3 80.9 121.3#

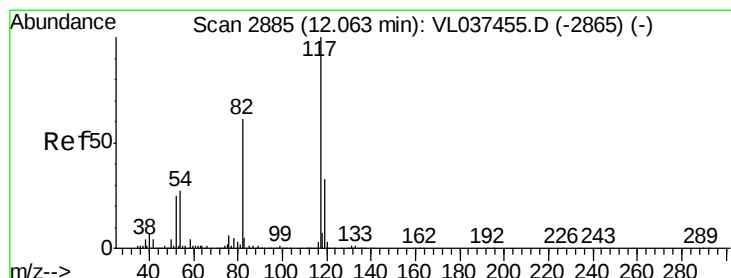
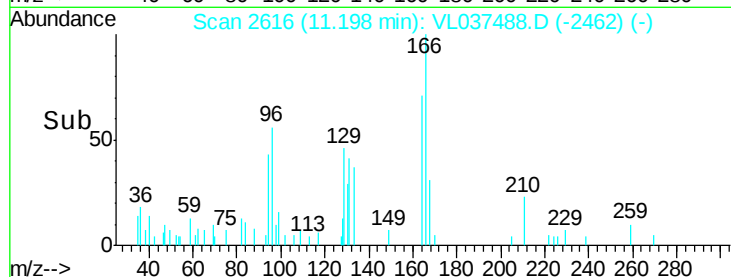
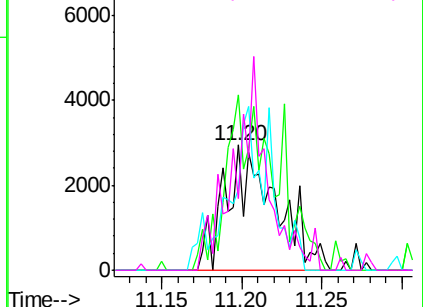
131 57.0 80.2 120.4#

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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: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL037488.D

Acq: 18 Aug 2021 12:58

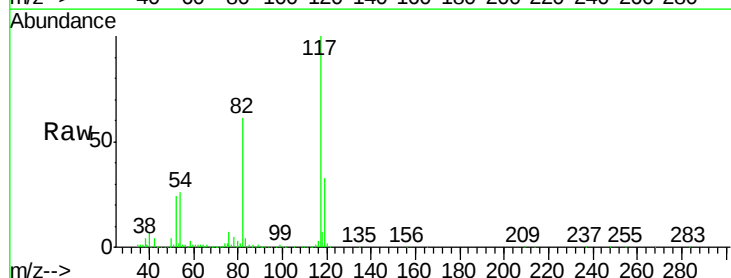
Tgt Ion:117 Resp: 3334275

Ion Ratio Lower Upper

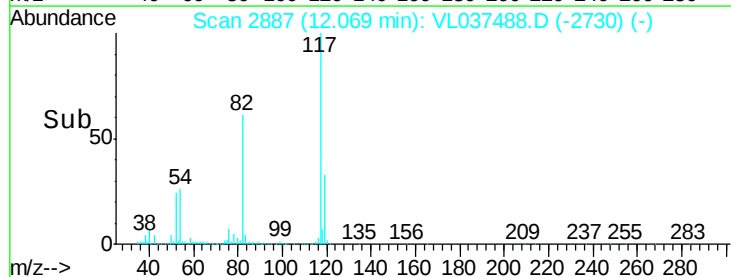
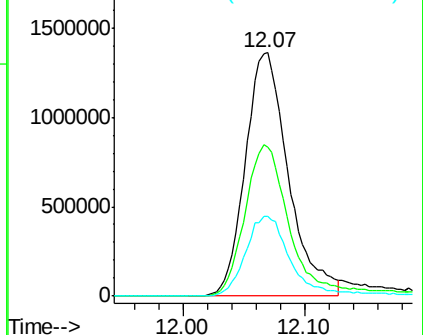
117 100

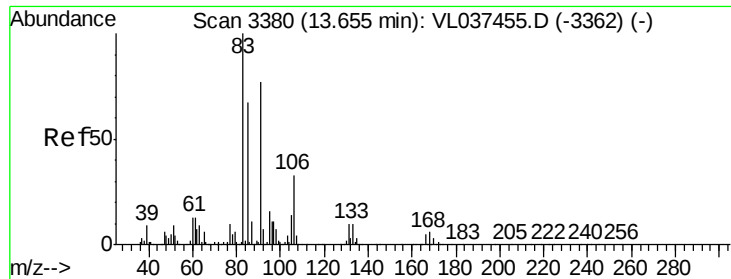
82 68.5 52.9 79.3

119 34.8 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





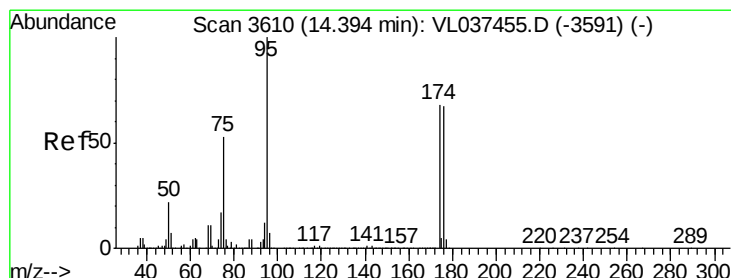
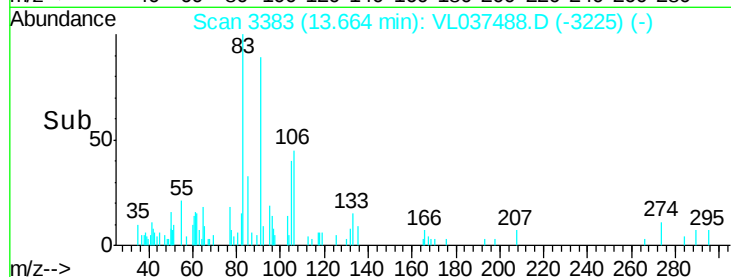
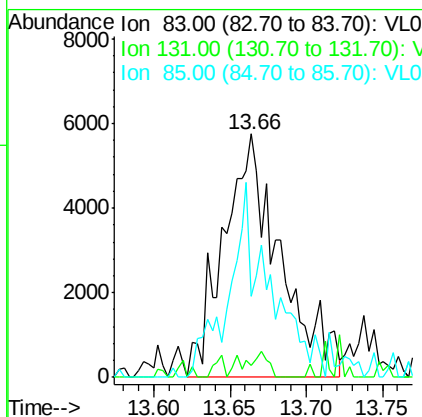
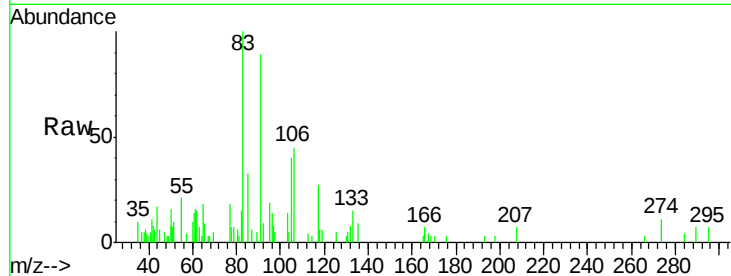
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.053 ppbv m
 RT: 13.66 min Scan# 3383
 Delta R.T. 0.01 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2021

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	58.6	33.8	101.3

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.316 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037488.D
 Acq: 18 Aug 2021 12:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.3	59.6	89.4
175	5.2	4.6	7.0

