

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101821\
 Data File : VL037861.D
 Acq On : 18 Oct 2021 20:38
 Operator : SY/AP
 Sample : M4068-13 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/25/2021
 Supervised By :Mahesh Dadoda 10/27/2021

Quant Time: Oct 19 09:11:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1196794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3587095	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3041054	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2158619	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	2767m	0.036	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	5946m	0.030	ppbv	
35) Carbon Tetrachloride	7.01	117	6347m	0.031	ppbv	
38) Trichloroethene	7.84	130	3003m	0.025	ppbv	
52) Tetrachloroethene	11.21	164	3120m	0.026	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	8009m	0.031	ppbv	

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

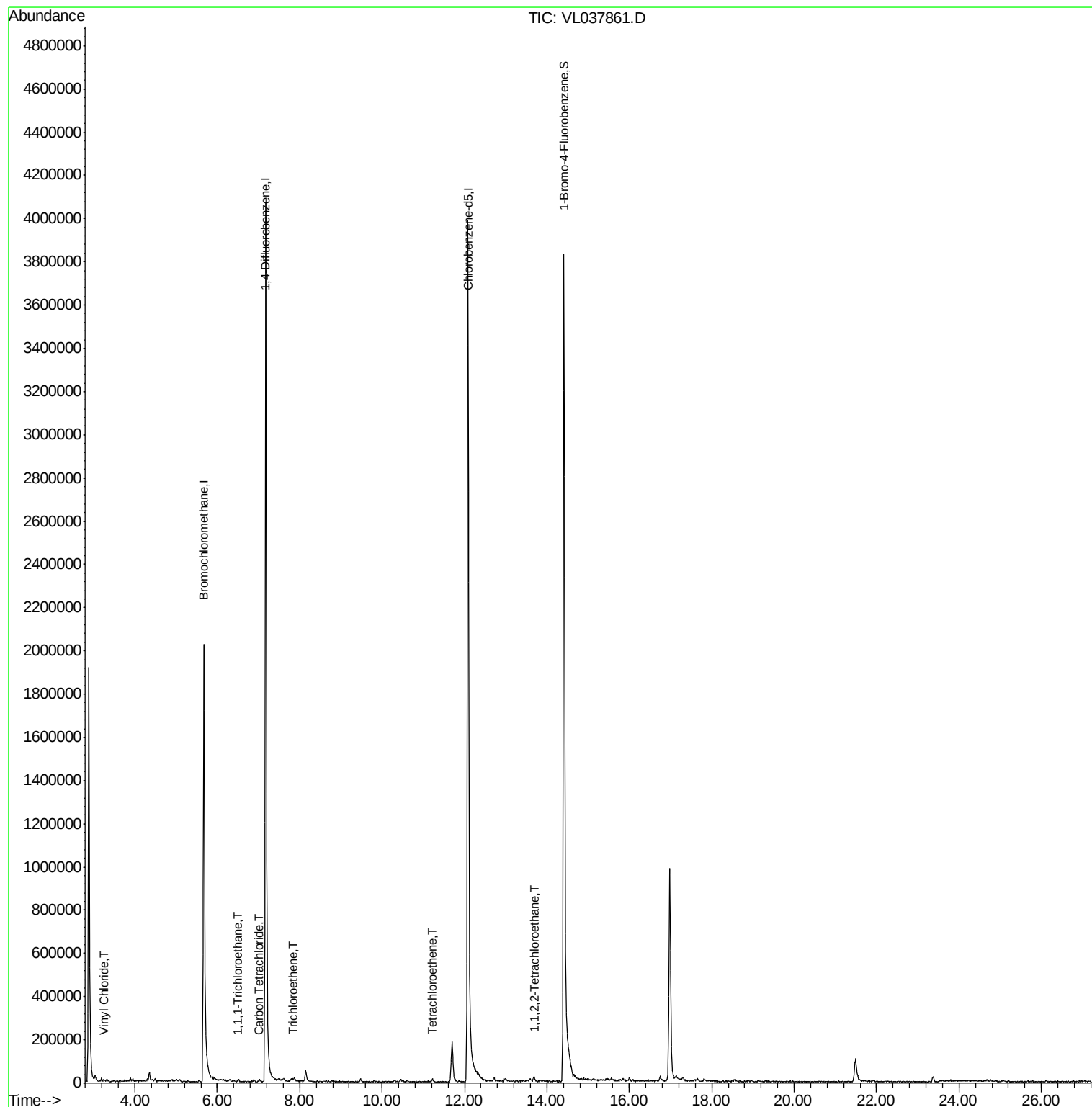
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101821\
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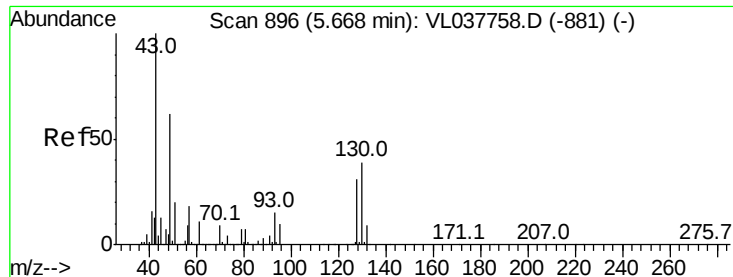
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2021

Quant Time: Oct 19 09:11:38 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL100421
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

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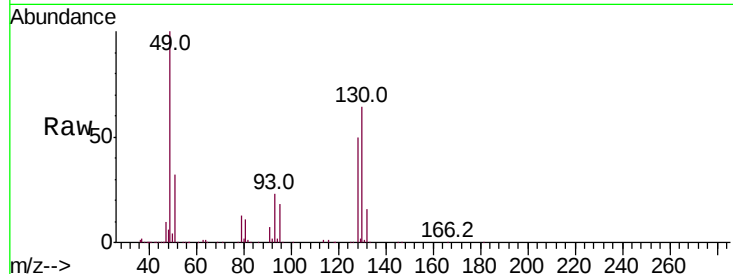
Tot Ion:

Ion Ratio

49 100

128 55.

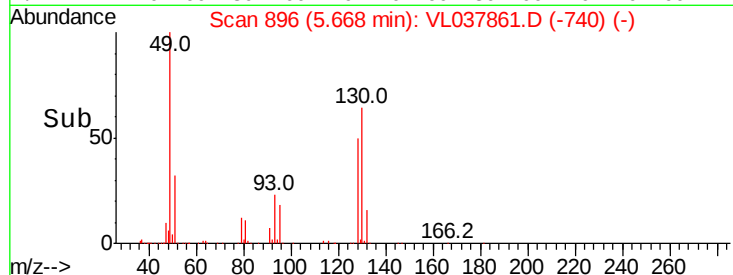
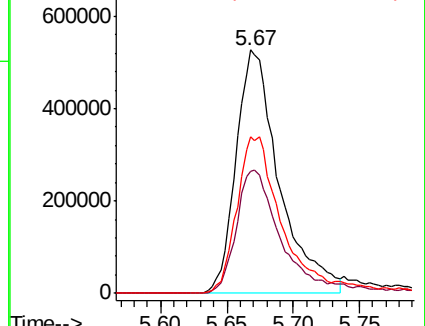
130 69.



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: 0.036 ppbv m

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037861.D

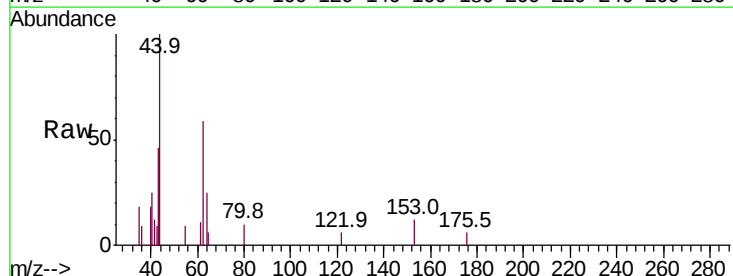
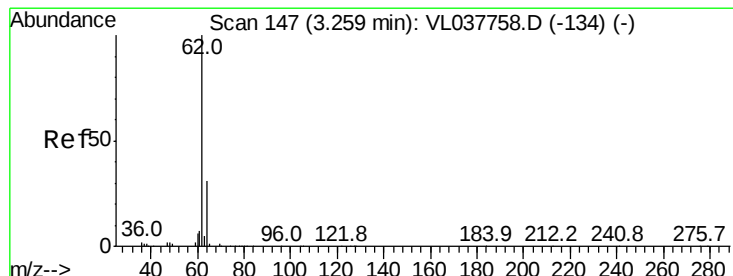
Acq: 18 Oct 2021 20:38

Tgt Ion: 62 Resp: 2767

Ion Ratio Lower Upper

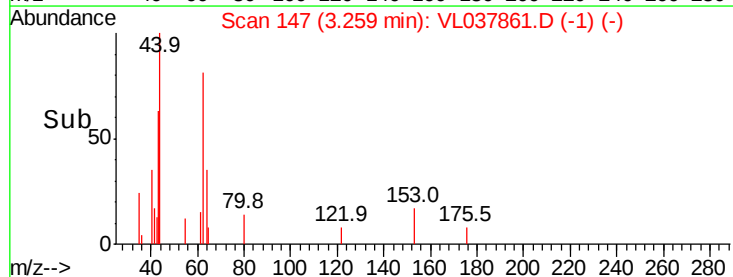
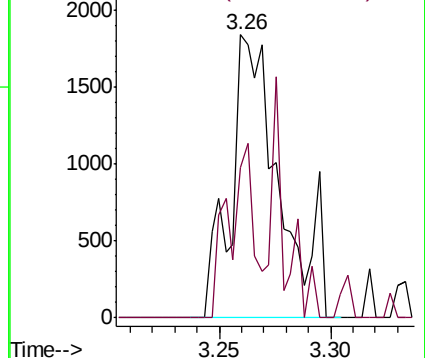
62 100

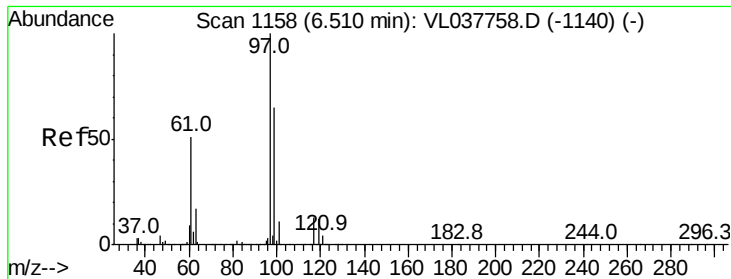
64 43.1 24.9 37.3#



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: 0.030 ppbv m

RT: 6.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Oct 2021 20:38 LOD-MDL-AIR-01-QT4-2021

Tot Ion:

Ion Ratio

97 100

99 69.

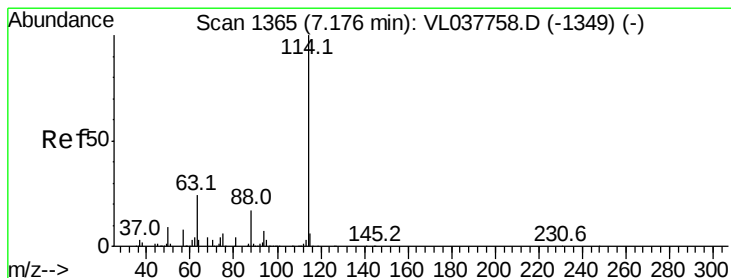
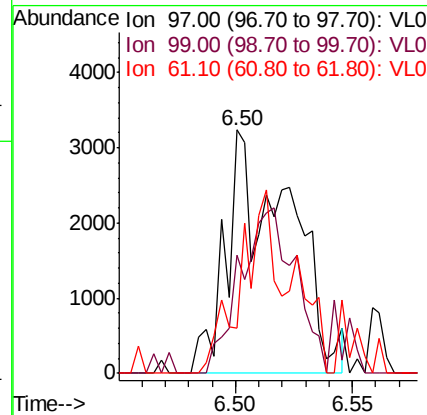
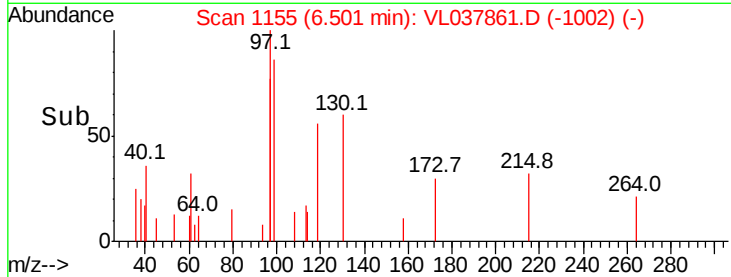
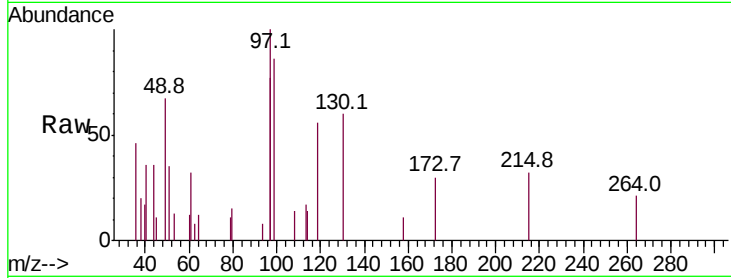
61 67.

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VL037861.D

Acq: 18 Oct 2021 20:38

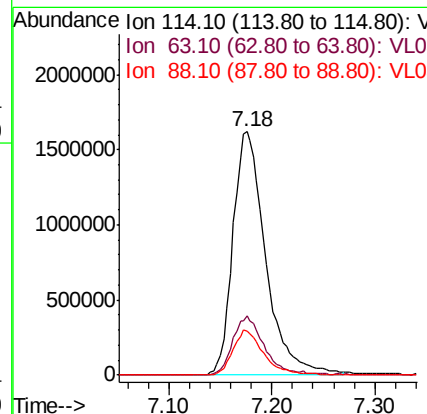
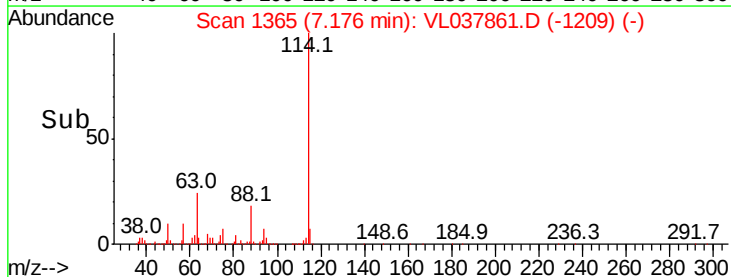
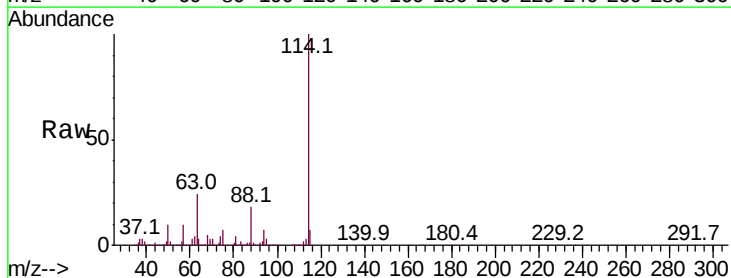
Tgt Ion:114 Resp: 3587095

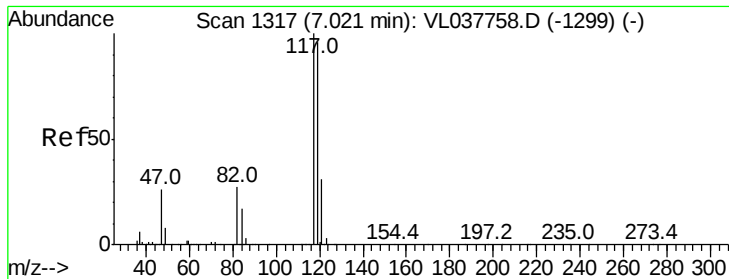
Ion Ratio Lower Upper

114 100

63 23.7 19.4 29.2

88 17.7 14.4 21.6





#35

Carbon Tetrachloride

Concen: 0.031 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

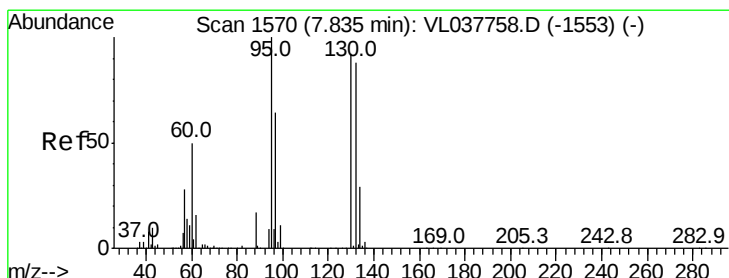
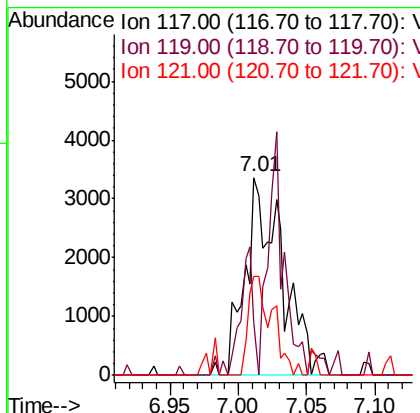
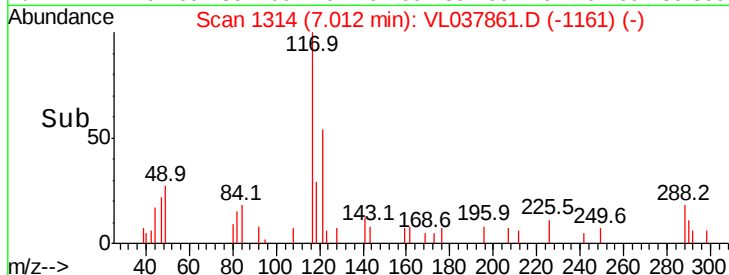
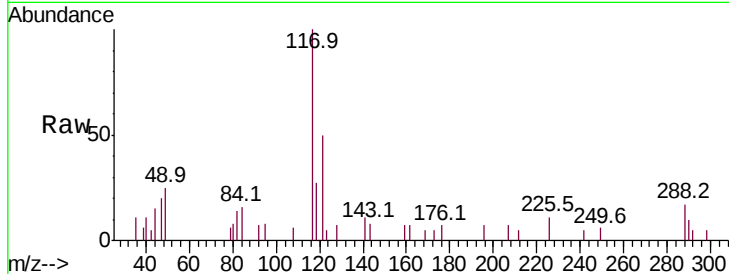
Lab File: ClientSampleId:

Acq: 18 Oct 2021 20:38 LOD-MDL-AIR-01-QT4-2021

Tot Ion:1
Ion Rati
117 100
119 26.
121 50.

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#38

Trichloroethene

Concen: 0.025 ppbv m

RT: 7.84 min Scan# 1571

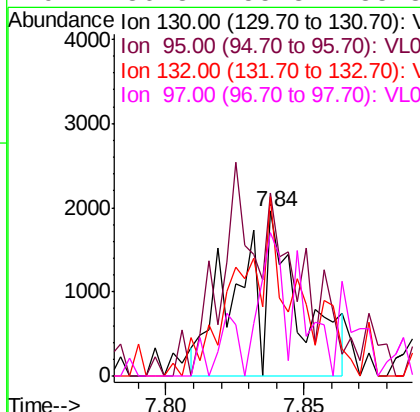
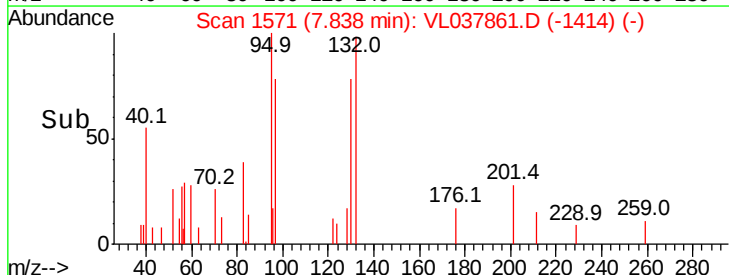
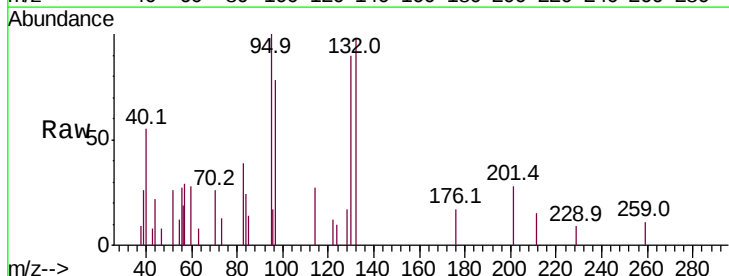
Delta R.T. 0.00 min

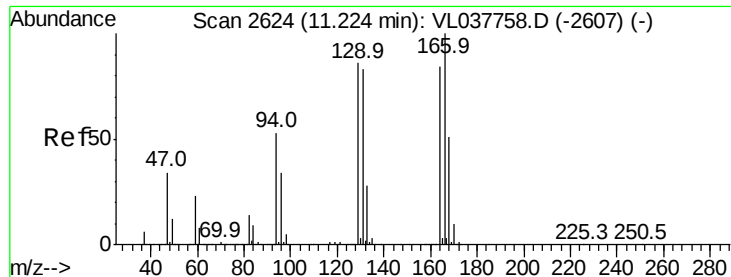
Lab File: VL037861.D

Acq: 18 Oct 2021 20:38

Tgt Ion:130 Resp: 3003

Ion	Ratio	Lower	Upper
130	100		
95	111.0	87.4	131.0
132	108.5	76.8	115.2
97	86.8	55.8	83.8#





#52

Tetrachloroethene

Concen: 0.026 ppbv m

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Oct 2021 20:38

Tot Ion:1

Ion Ratio

164 100

166 39.

129 45.

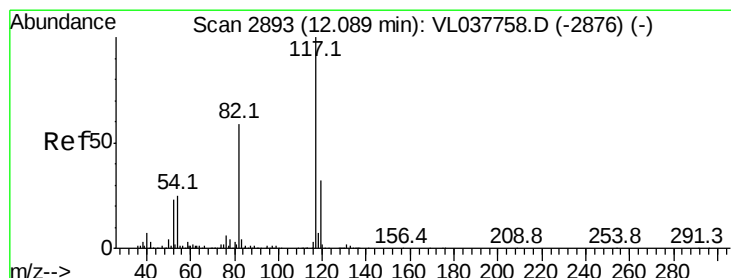
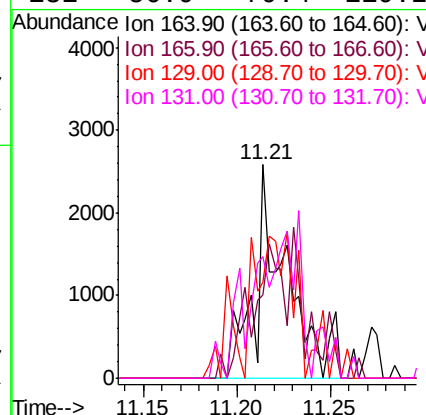
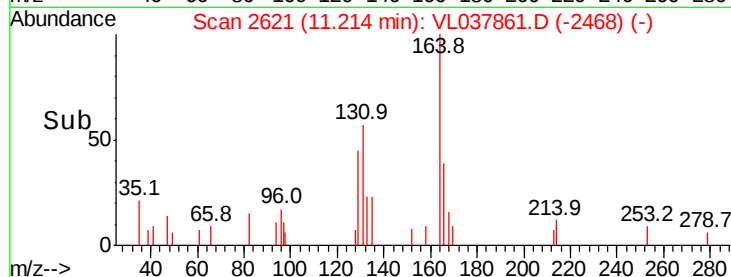
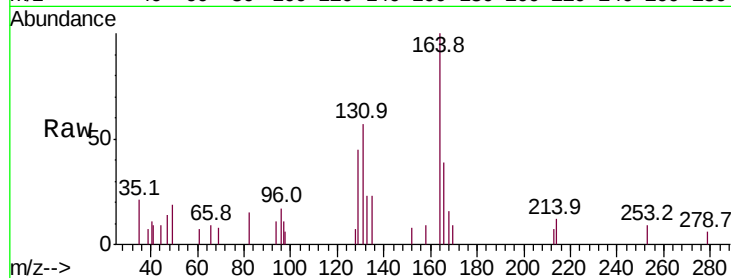
131 56.9 79.4 119.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL037861.D

Acq: 18 Oct 2021 20:38

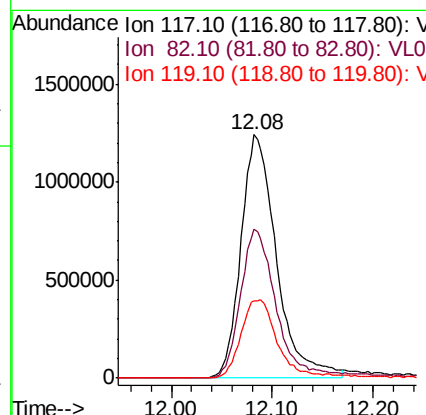
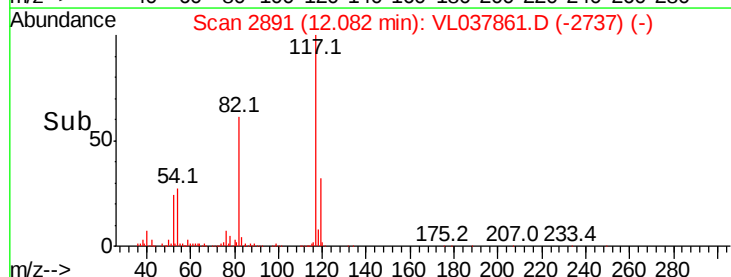
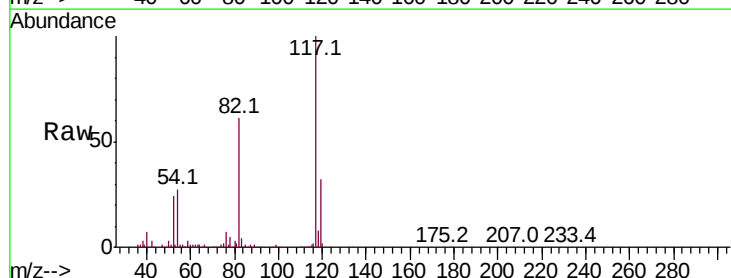
Tgt Ion:117 Resp: 3041054

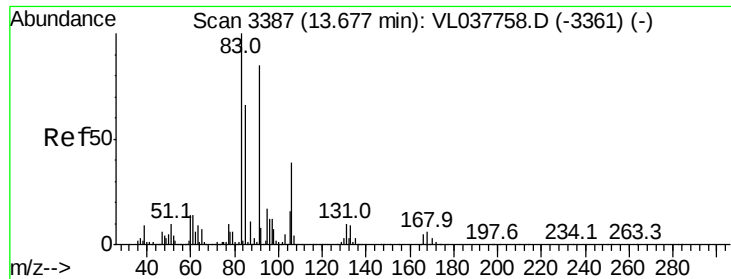
Ion Ratio Lower Upper

117 100

82 63.5 52.2 78.2

119 34.1 26.0 39.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.031 ppbv m

RT: 13.68

Delta R.T. MSVOA_L

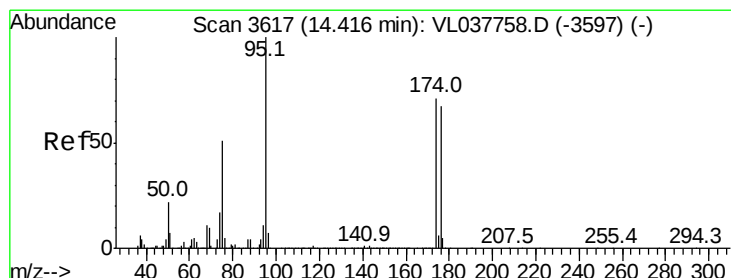
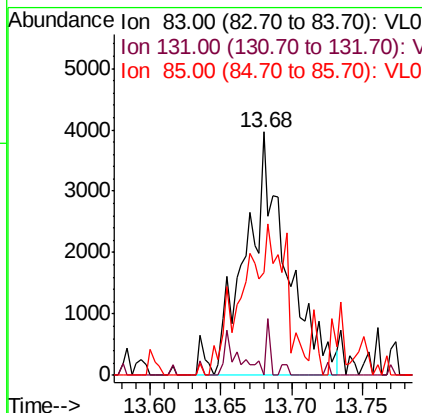
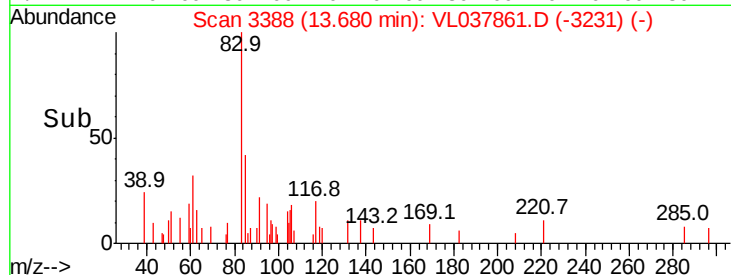
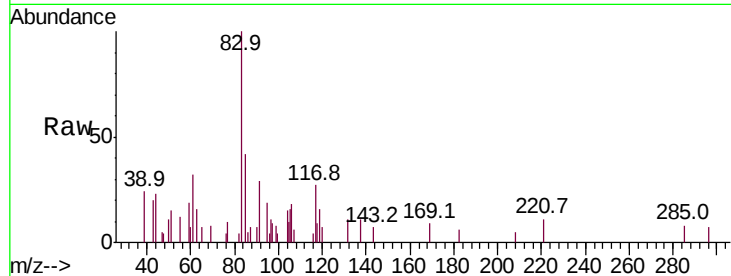
Lab File: ClientSampleId :

Acq: 18 Oct 2021 20:38 LOD-MDL-AIR-01-QT4-2021

Tot Ion:
Ion Rati
83 100
131 0.
85 0.

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.150 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL037861.D

Acq: 18 Oct 2021 20:38

Tgt Ion: 95 Resp: 2158619
Ion Ratio Lower Upper
95 100
174 73.3 57.8 86.6
175 5.1 4.7 7.1

