

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037904.D
 Acq On : 25 Oct 2021 21:46
 Operator : SY/AP
 Sample : M4068-15 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 MDL-AIR-03-QT4-2021

Manual Integrations
 APPROVED

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

Quant Time: Oct 27 12:13:34 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	5.68	49	1453063	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	4146851	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3552146	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2444804	9.84	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	3721m	0.040	ppbv	
32) 1,1,1-Trichloroethane	6.54	97	10121m	0.041	ppbv	
35) Carbon Tetrachloride	7.03	117	8778m	0.037	ppbv	
38) Trichloroethene	7.85	130	5886m	0.042	ppbv	
52) Tetrachloroethene	11.25	164	4693m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.71	83	12591m	0.042	ppbv	

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

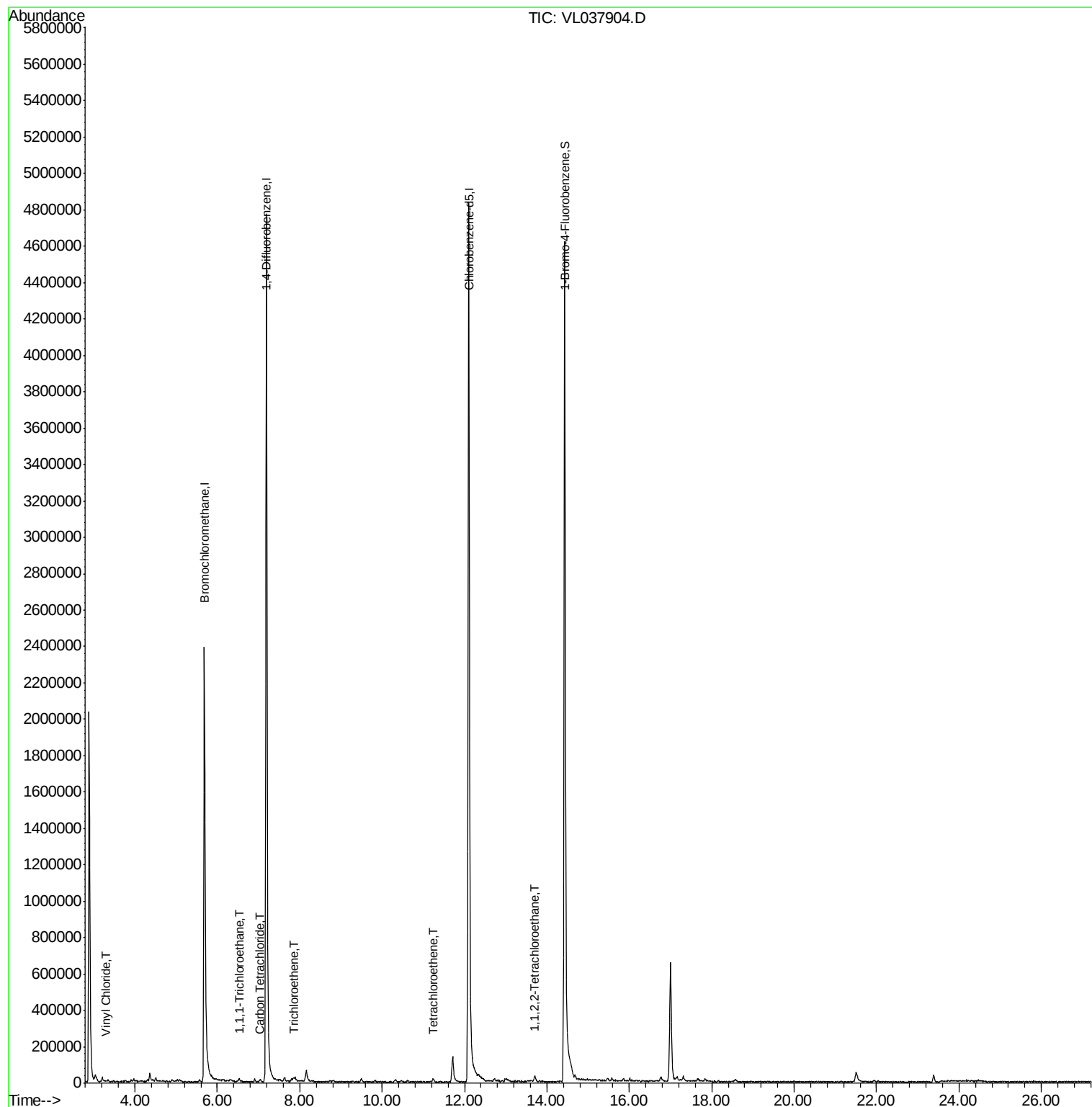
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102521\
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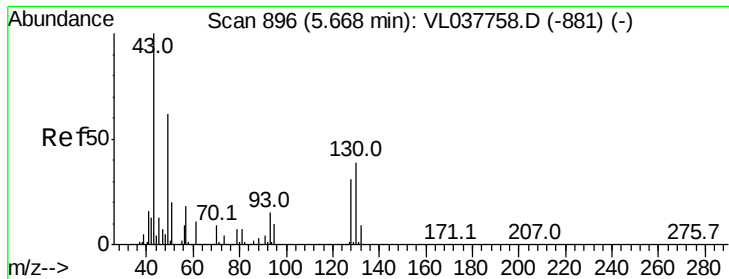
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2021

Quant Time: Oct 27 12:13:34 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: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

Tot Ion:

Ion Ratio

49 100

128 53.

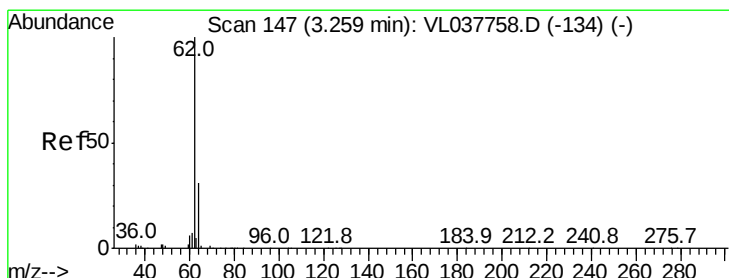
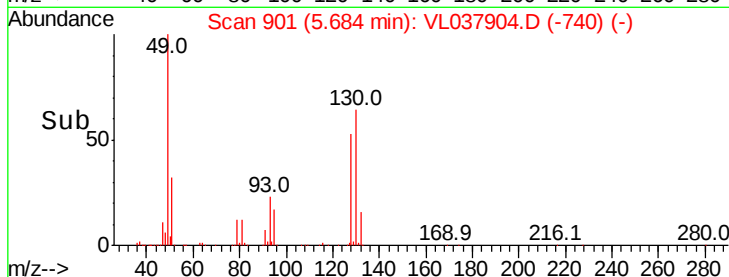
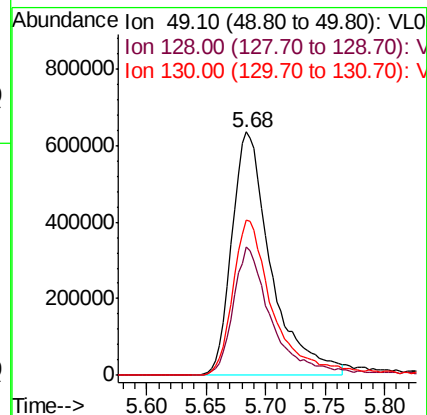
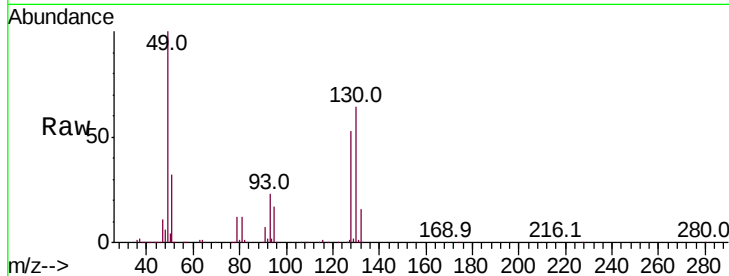
130 66.

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.040 ppbv m

RT: 3.29 min Scan# 155

Delta R.T. 0.03 min

Lab File: VL037904.D

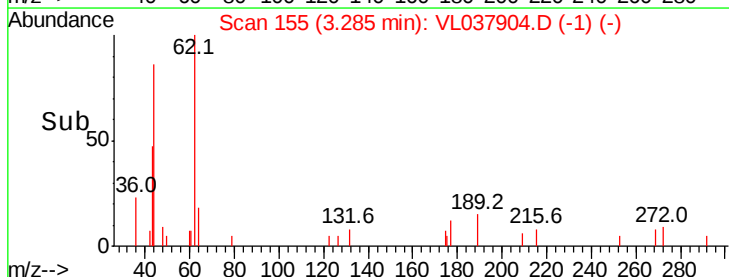
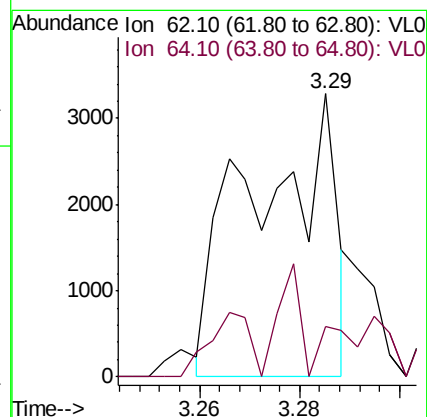
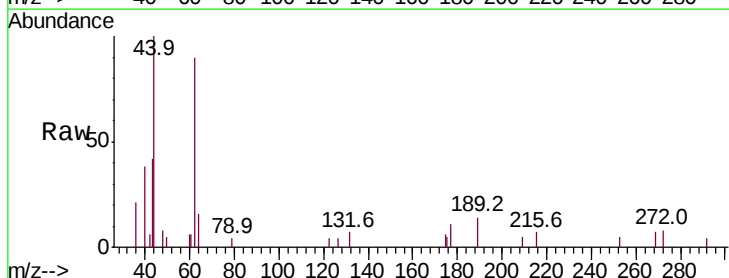
Acq: 25 Oct 2021 21:46

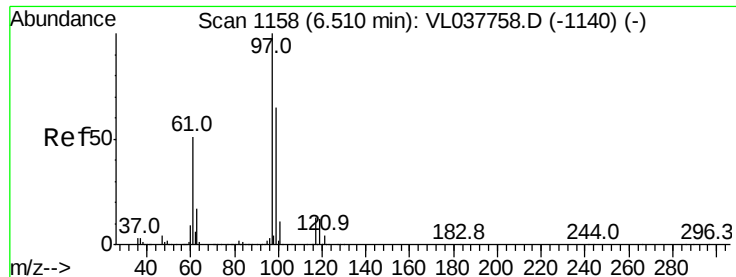
Tgt Ion: 62 Resp: 3721

Ion Ratio Lower Upper

62 100

64 17.6 24.9 37.3#





#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv m

RT: 6.54 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 21:40 MDL-AIR-03-OT4-2021

Tot Ion:

Ion Ratio

97 100

99 61.

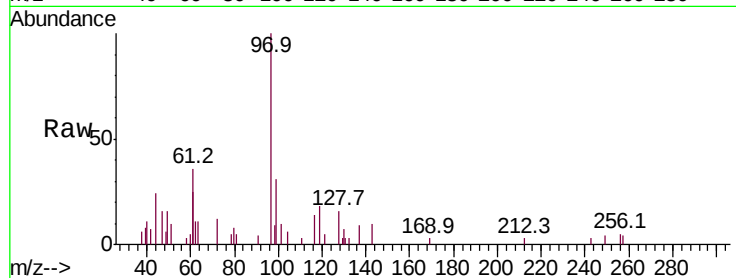
61 0.

Manual Integrations

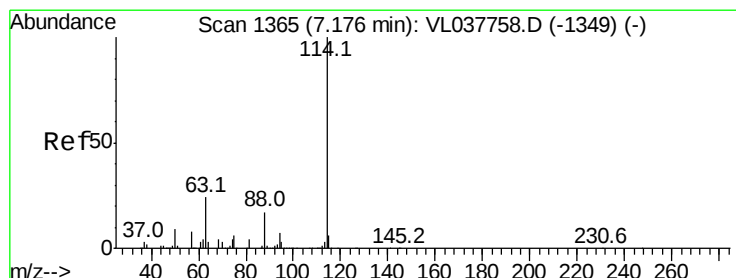
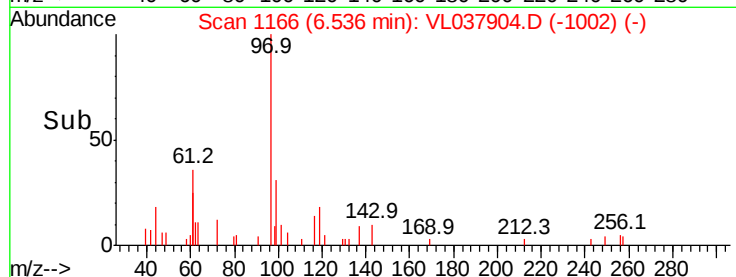
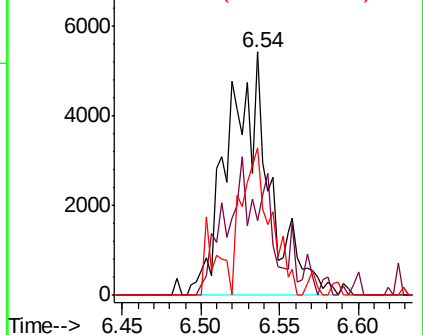
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Supervised By :Mahesh Dadoda 10/27/2021



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: 7.19 min Scan# 1370

Delta R.T. 0.02 min

Lab File: VL037904.D

Acq: 25 Oct 2021 21:46

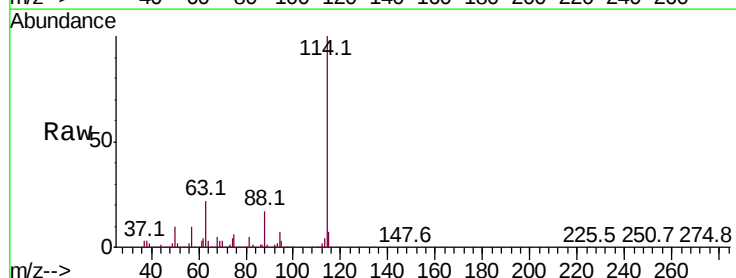
Tgt Ion:114 Resp: 4146851

Ion Ratio Lower Upper

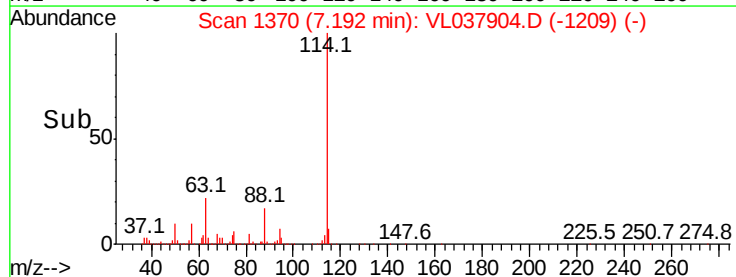
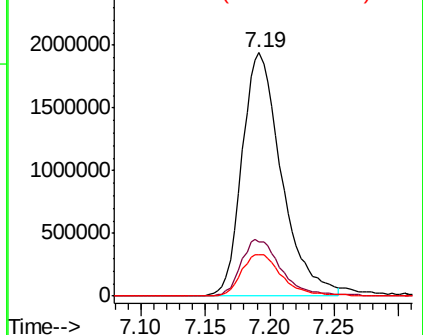
114 100

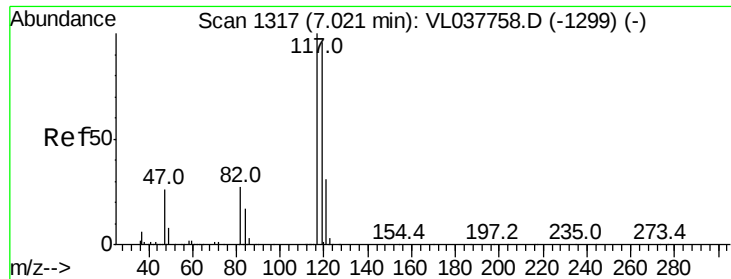
63 23.9 19.4 29.2

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: 0.037 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

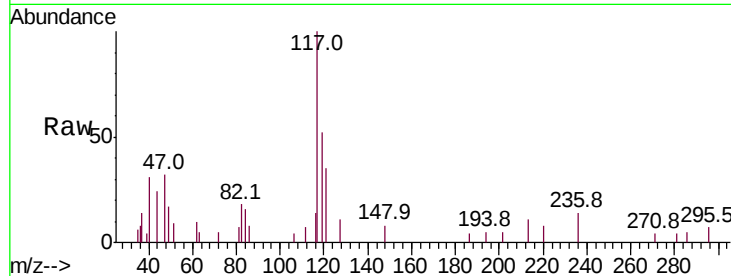
Lab File: ClientSampleId:

Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

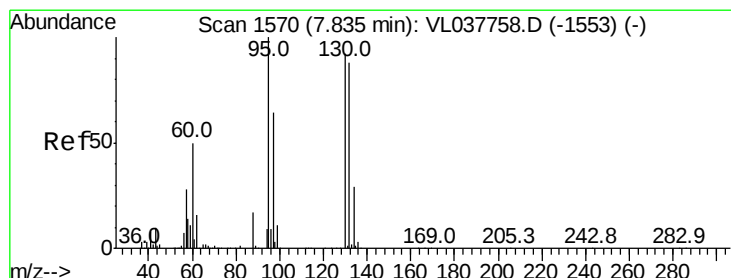
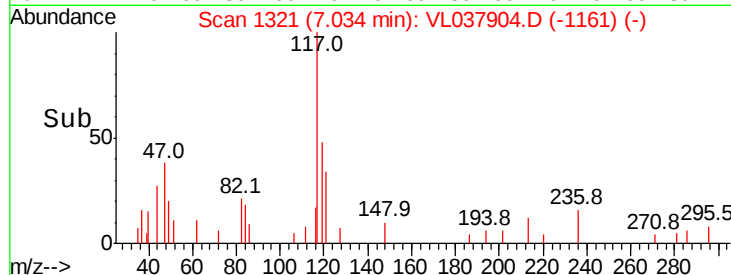
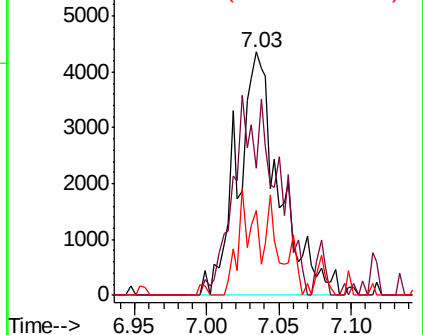
Tot Ion:1
Ion Rati
117 100
119 52.
121 35.

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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: 0.042 ppbv m

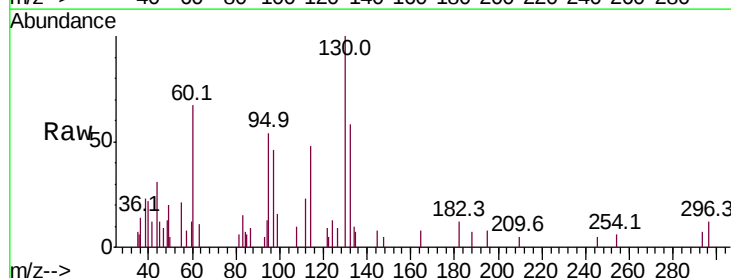
RT: 7.85 min Scan# 1575

Delta R.T. 0.02 min

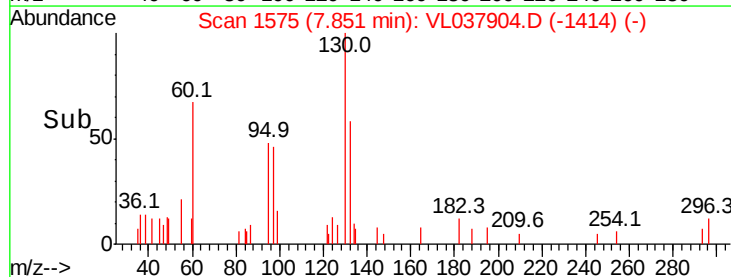
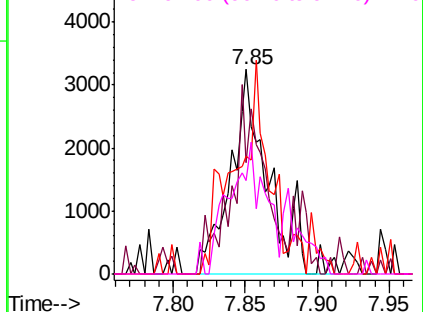
Lab File: VL037904.D

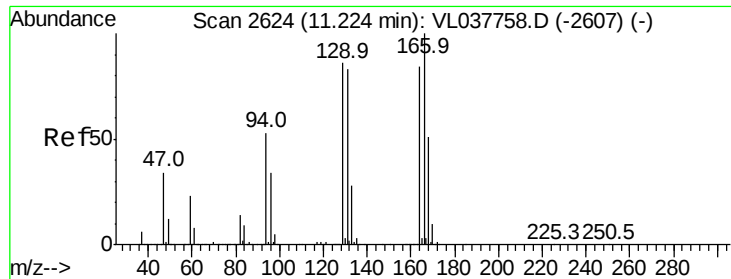
Acq: 25 Oct 2021 21:46

Tgt Ion:130 Resp: 5886
Ion Ratio Lower Upper
130 100
95 54.3 87.4 131.0#
132 57.8 76.8 115.2#
97 45.7 55.8 83.8#



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: 0.034 ppbv m

RT: 11.25

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

Tot Ion:1

Ion Ratio

164 100

166 92.

129 42.

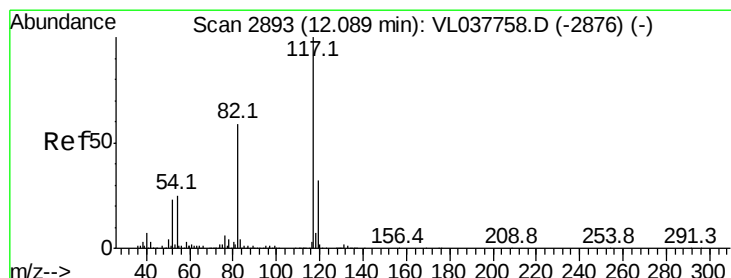
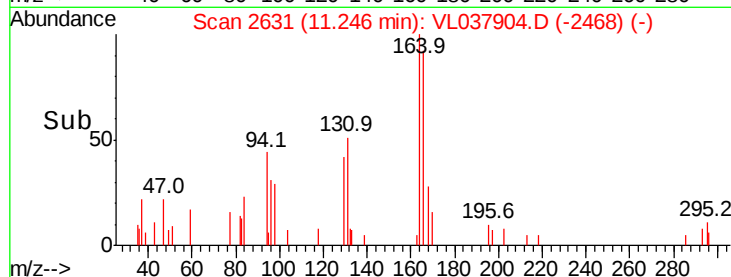
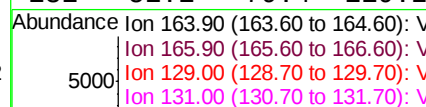
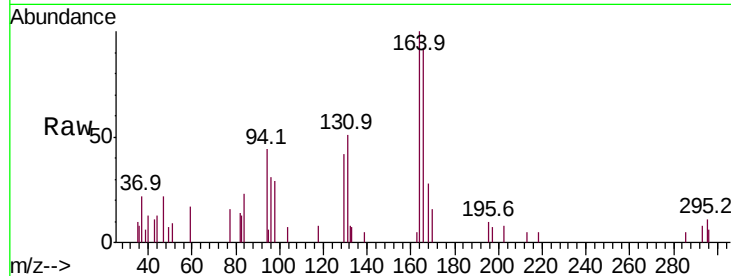
131 51.1 79.4 119.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL037904.D

Acq: 25 Oct 2021 21:46

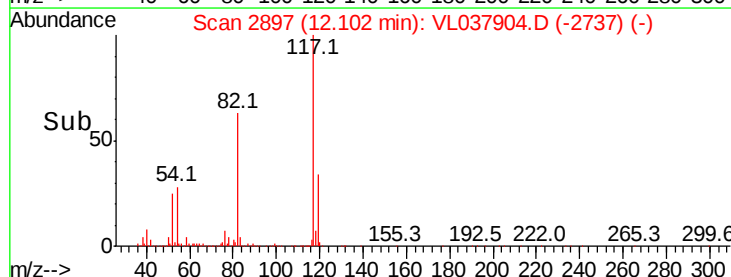
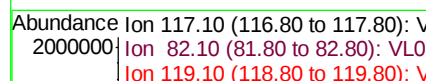
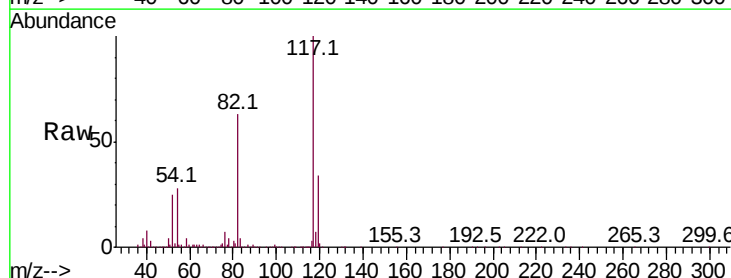
Tgt Ion:117 Resp: 3552146

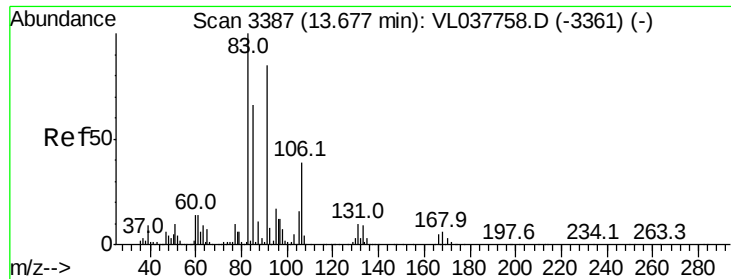
Ion Ratio Lower Upper

117 100

82 64.4 52.2 78.2

119 34.3 26.0 39.0



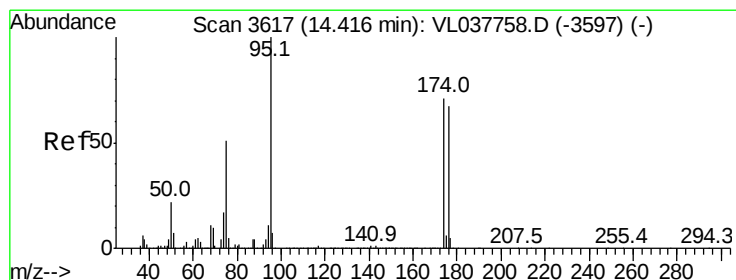
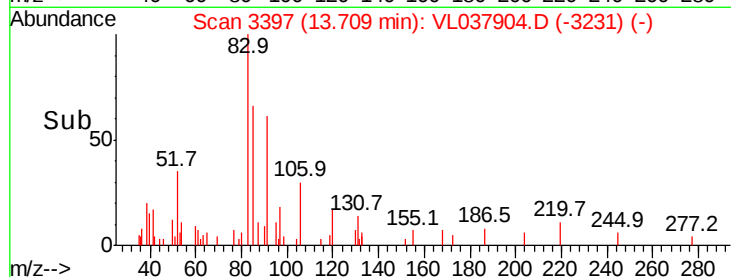
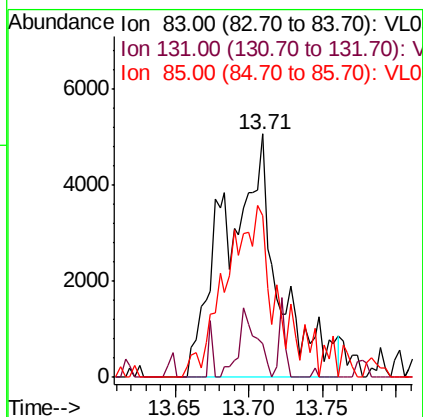
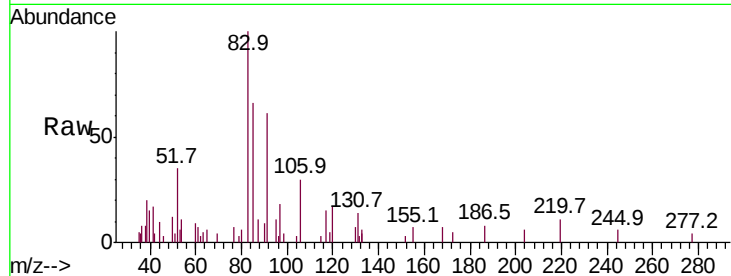


#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.042 ppbv m
 RT: 13.71
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Oct 2021 21:40 MDL-AIR-03-QT4-2021

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

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 Supervised By :Mahesh Dadoda 10/27/2021



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.842 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. 0.02 min
 Lab File: VL037904.D
 Acq: 25 Oct 2021 21:46

Tgt Ion: 95 Resp: 2444804
 Ion Ratio Lower Upper
 95 100
 174 75.4 57.8 86.6
 175 5.5 4.7 7.1

