

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037924.D
 Acq On : 27 Oct 2021 20:15
 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 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 13:41:12 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	1292926	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3848111	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3179937	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2207383	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	2823m	0.034	ppbv	
32) 1,1,1-Trichloroethane	6.53	97	7331m	0.034	ppbv	
35) Carbon Tetrachloride	7.02	117	6551m	0.030	ppbv	
38) Trichloroethene	7.84	130	4274m	0.033	ppbv	
52) Tetrachloroethene	11.24	164	4038m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	7711m	0.028	ppbv	

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

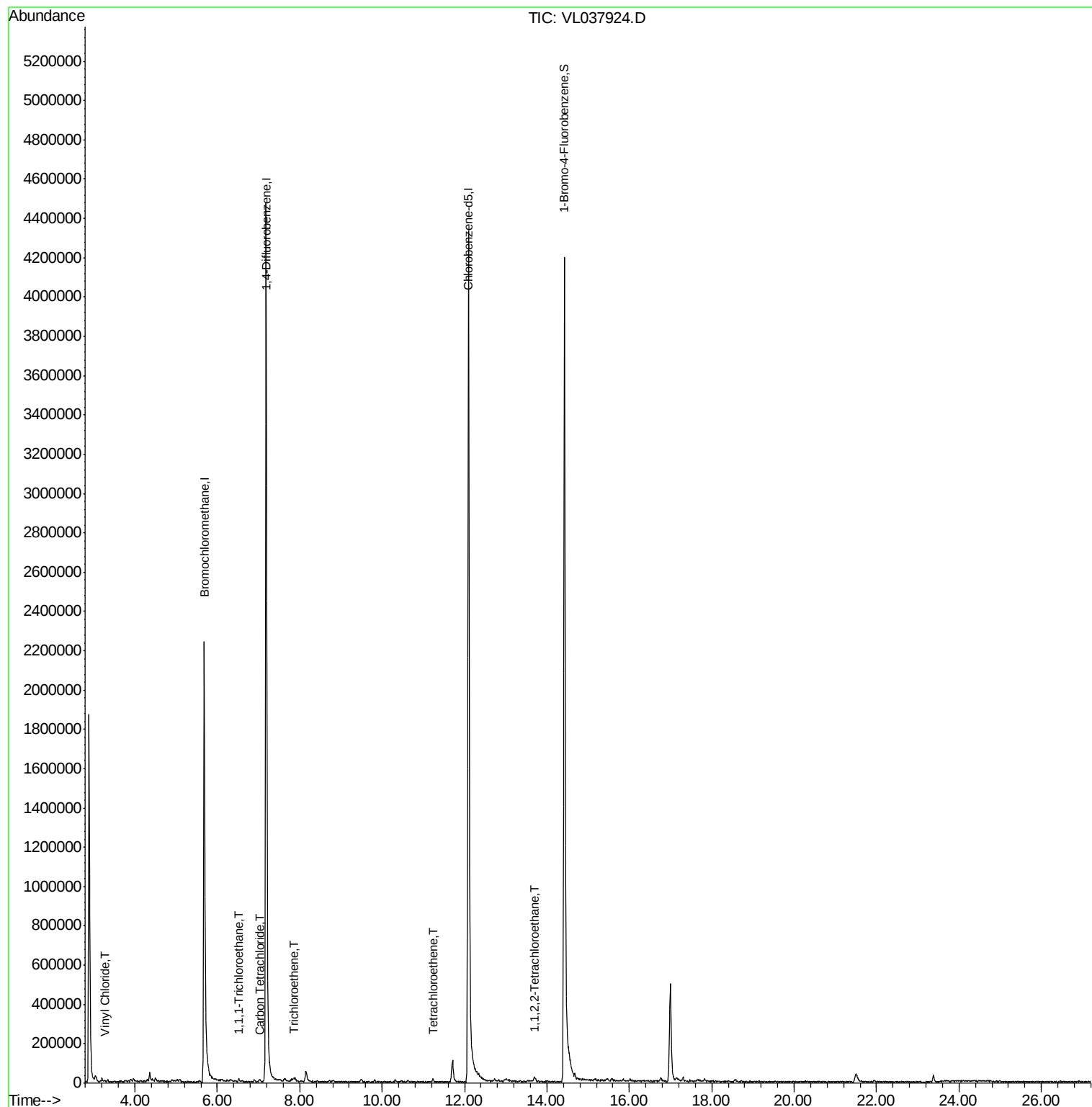
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102721\
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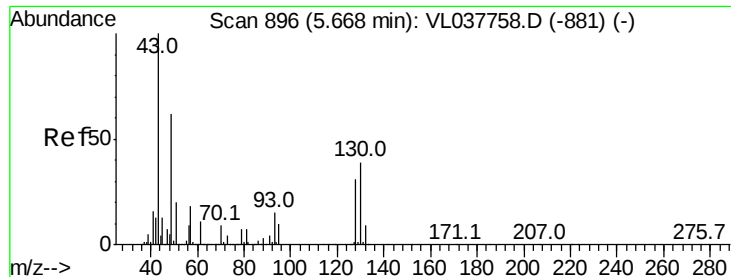
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2021

Quant Time: Oct 28 13:41:12 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

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 20:15

Tot Ion:

Ion Ratio

49 100

128 54.

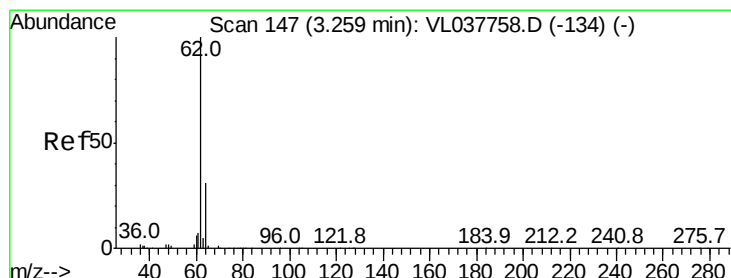
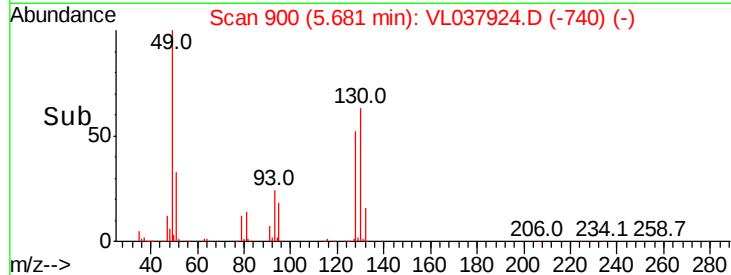
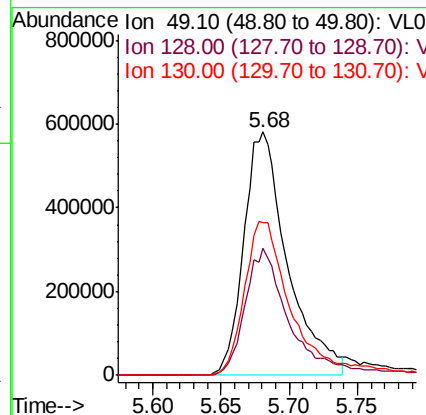
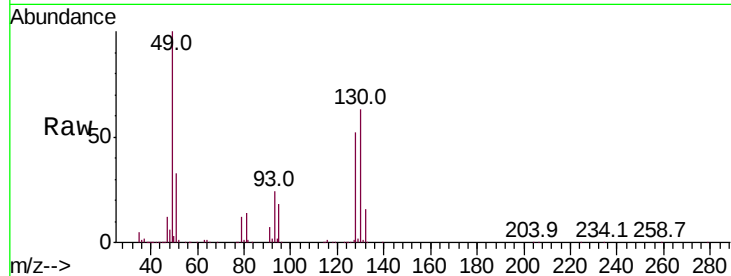
130 69.

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.034 ppbv m

RT: 3.27 min Scan# 150

Delta R.T. 0.01 min

Lab File: VL037924.D

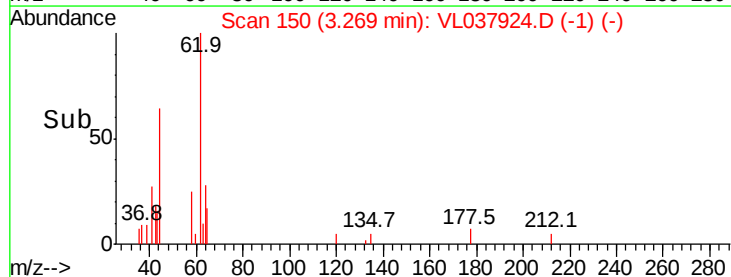
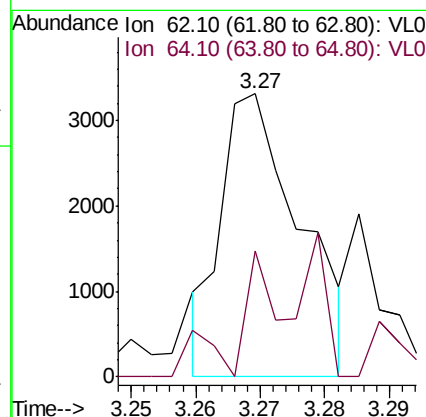
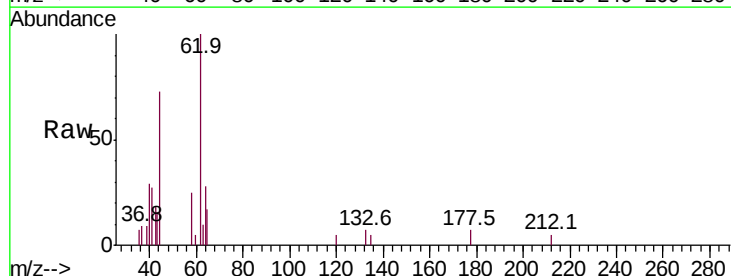
Acq: 27 Oct 2021 20:15

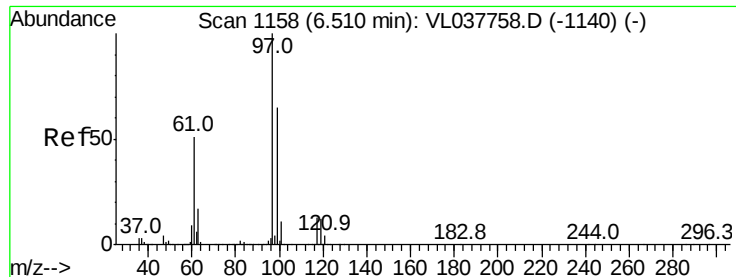
Tgt Ion: 62 Resp: 2823

Ion Ratio Lower Upper

62 100

64 27.5 24.9 37.3





#32

1,1,1-Trichloroethane

Concen: 0.034 ppbv m

RT: 6.53 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 27 Oct 2021 20:15

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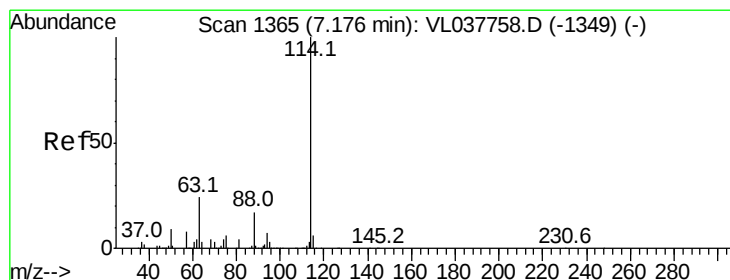
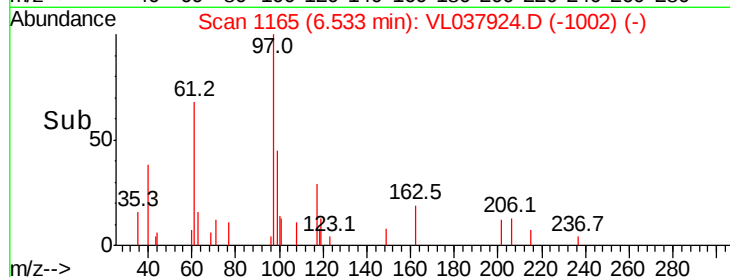
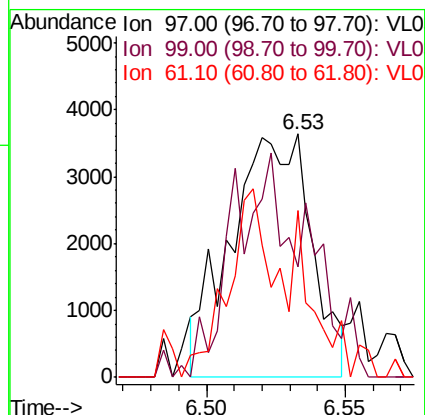
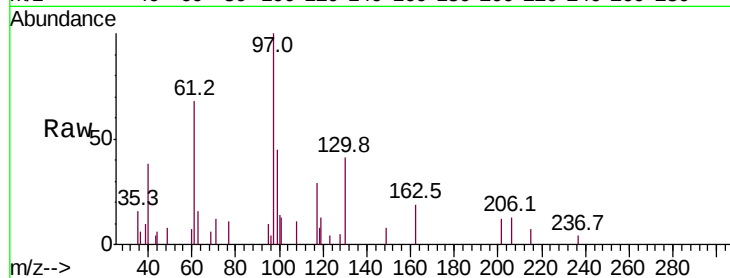
Tot Ion:

Ion Ratio

97 100

99 87.

61 66.



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL037924.D

Acq: 27 Oct 2021 20:15

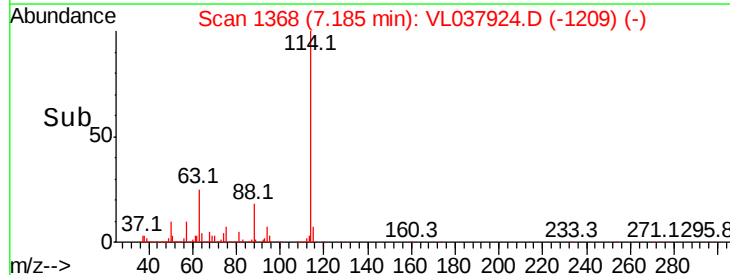
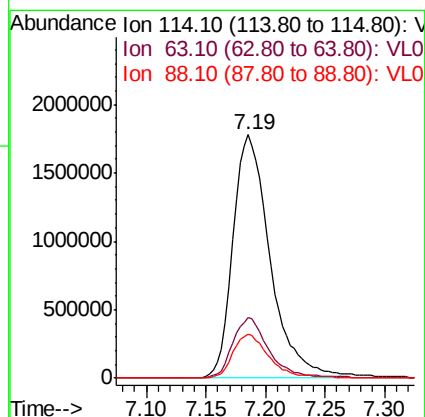
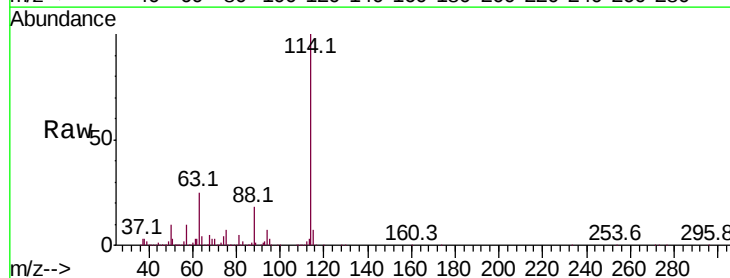
Tgt Ion:114 Resp: 3848111

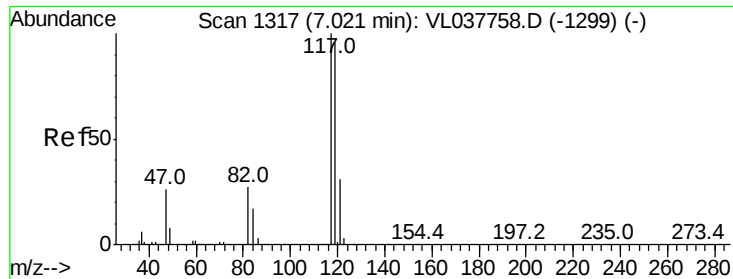
Ion Ratio Lower Upper

114 100

63 24.3 19.4 29.2

88 18.0 14.4 21.6





#35

Carbon Tetrachloride

Concen: 0.030 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

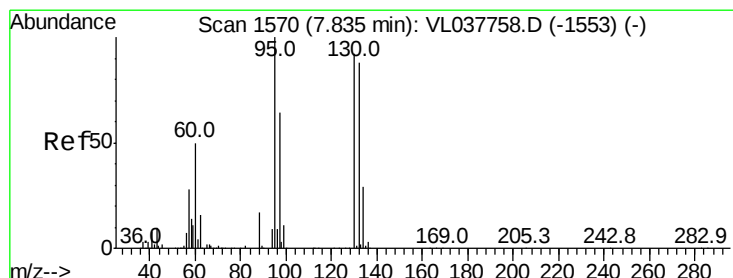
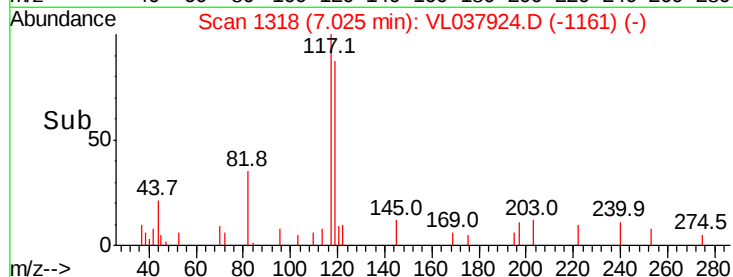
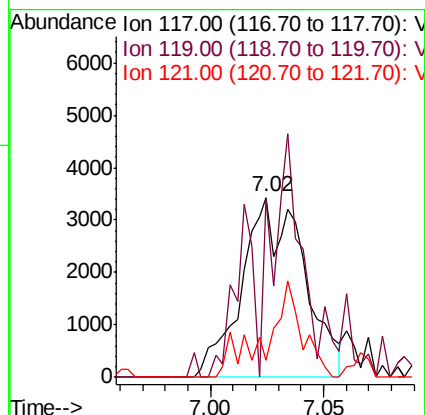
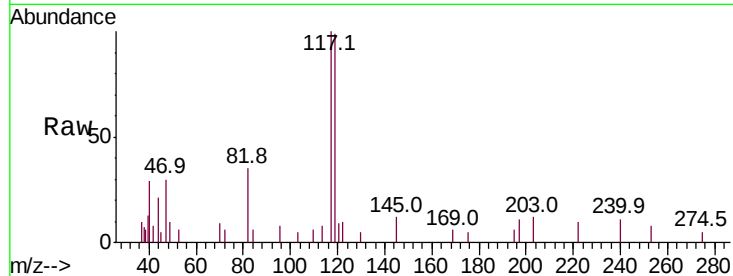
Lab File: ClientSampleId:

Acq: 27 Oct 2021 20:15 LOD-MDL-AIR-01-QT4-2021

Tot Ion:1
Ion Rati
117 100
119 99.
121 9.

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#38

Trichloroethene

Concen: 0.033 ppbv m

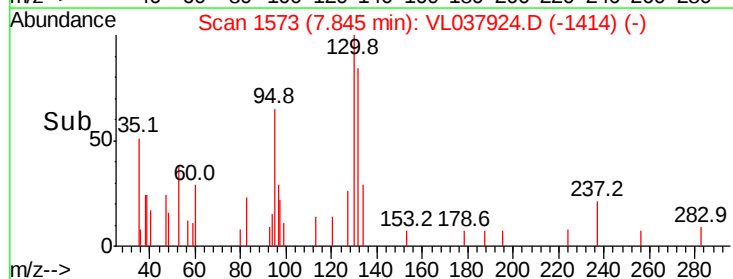
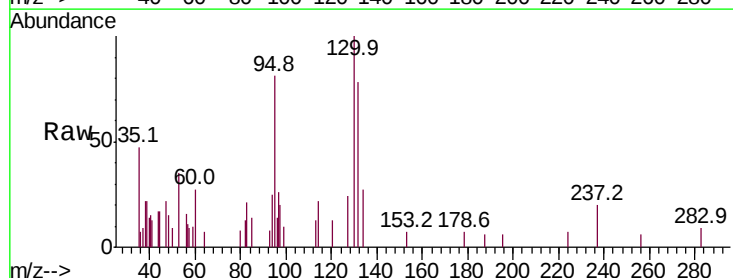
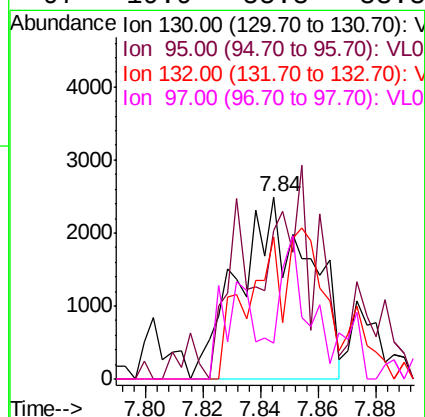
RT: 7.84 min Scan# 1573

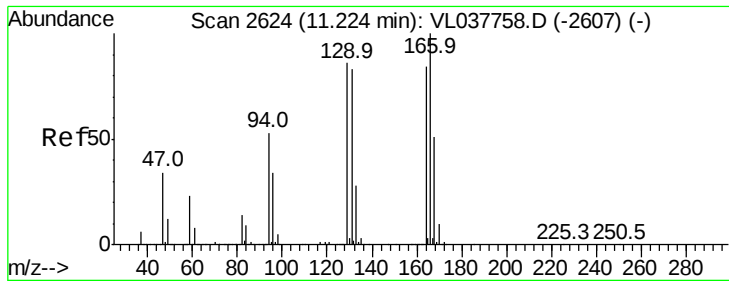
Delta R.T. 0.01 min

Lab File: VL037924.D

Acq: 27 Oct 2021 20:15

Tgt Ion:130 Resp: 4274
Ion Ratio Lower Upper
130 100
95 81.3 87.4 131.0#
132 77.8 76.8 115.2
97 19.9 55.8 83.8#





#52

Tetrachloroethene

Concen: 0.032 ppbv m

RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 20:15

Tot Ion:1

Ion Ratio

164 100

166 94.

129 62.

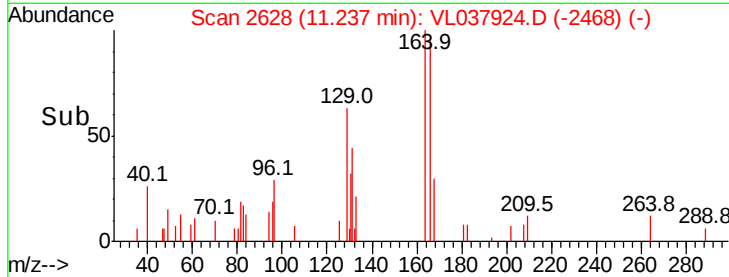
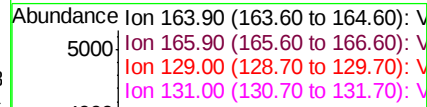
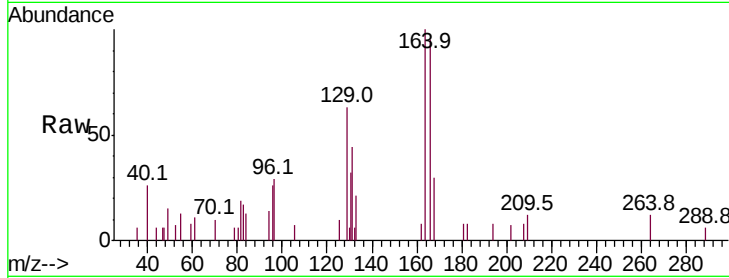
131 44.5 79.4 119.2#

Manual Integrations

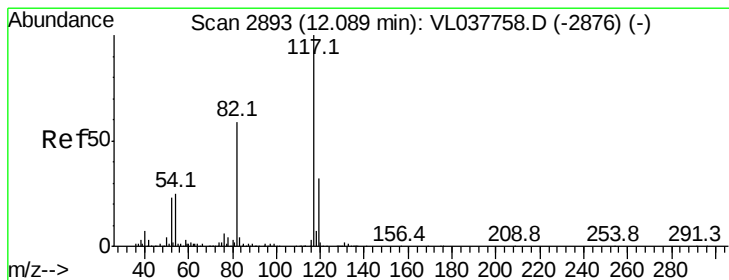
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Supervised By :Mahesh Dadoda 10/29/2021



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL037924.D

Acq: 27 Oct 2021 20:15

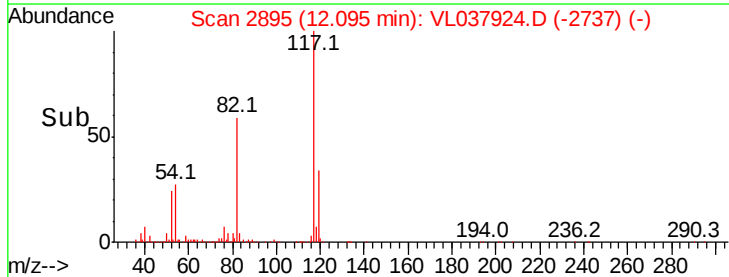
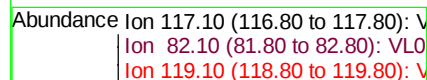
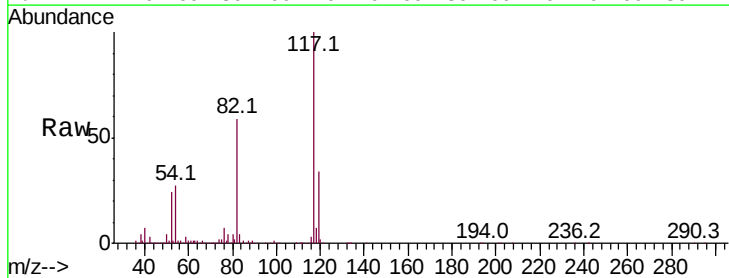
Tgt Ion:117 Resp: 3179937

Ion Ratio Lower Upper

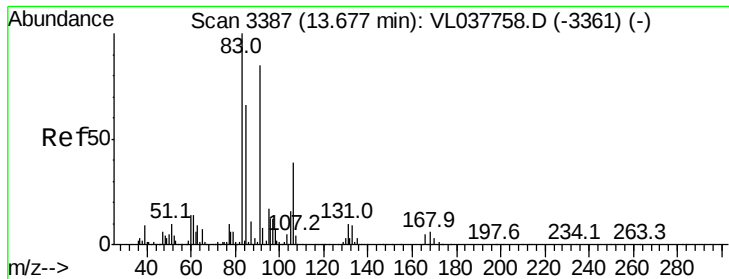
117 100

82 65.8 52.2 78.2

119 35.2 26.0 39.0



Time-->

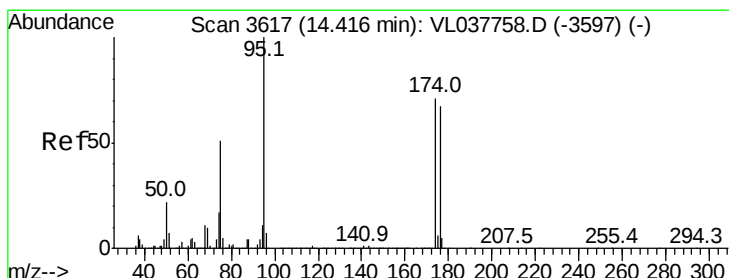
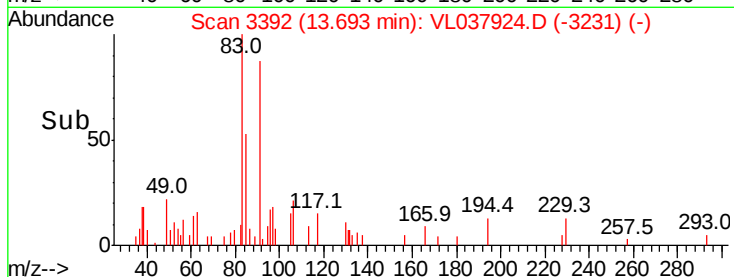
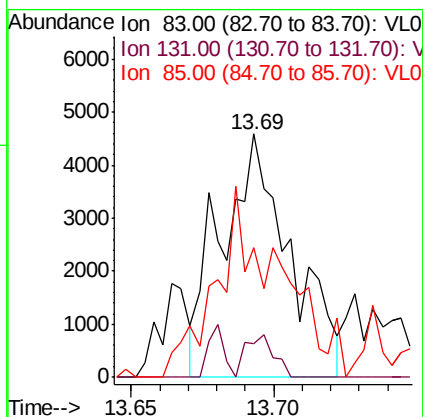
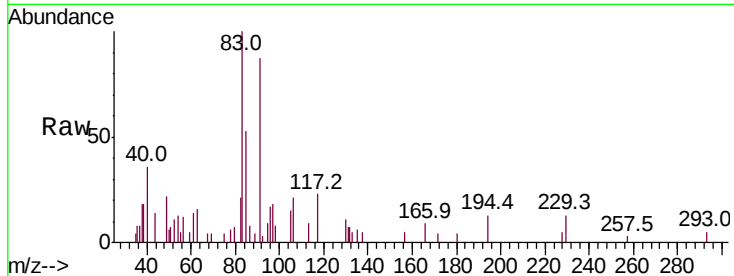


#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.028 ppbv m
 RT: 13.69
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Oct 2021 20:15
 LOD-MDL-AIR-01-QT4-2021

Tot Ion:
 Ion Ratio
 83 100
 131 4.
 85 0.

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. 0.01 min
 Lab File: VL037924.D
 Acq: 27 Oct 2021 20:15

Tgt Ion: 95 Resp: 2207383
 Ion Ratio Lower Upper
 95 100
 174 76.8 57.8 86.6
 175 5.5 4.7 7.1

