

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038051.D
 Acq On : 18 Nov 2021 11:55
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 18 12:28:40 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 10:39:10 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	934179	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2697914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2322240	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1675810	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	2083m	0.025	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	5973m	0.024	ppbv	
35) Carbon Tetrachloride	7.01	117	5990m	0.032	ppbv	
38) Trichloroethene	7.83	130	3189m	0.031	ppbv	
52) Tetrachloroethene	11.23	164	3696m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	7171m	0.035	ppbv	

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

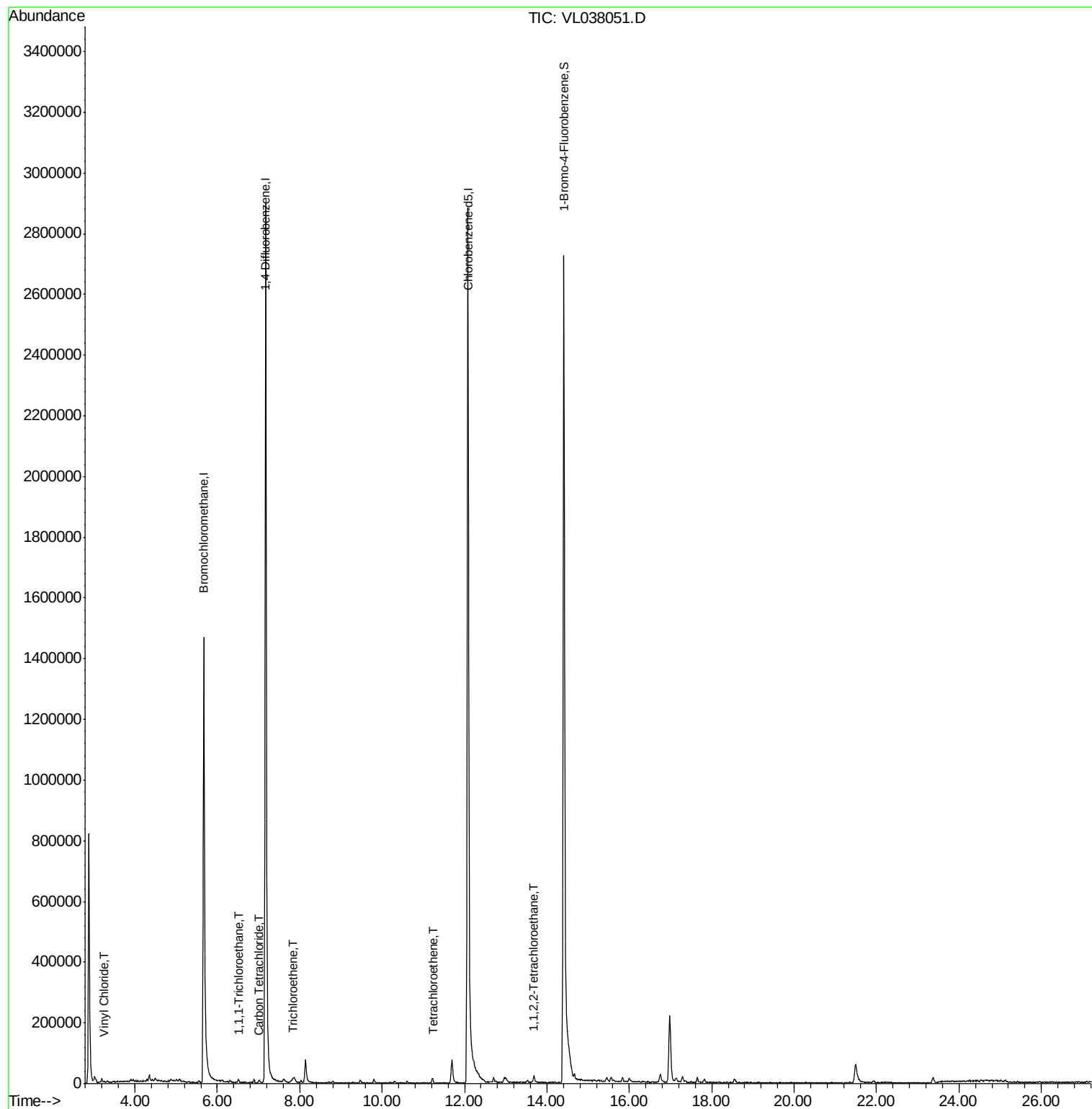
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111821\
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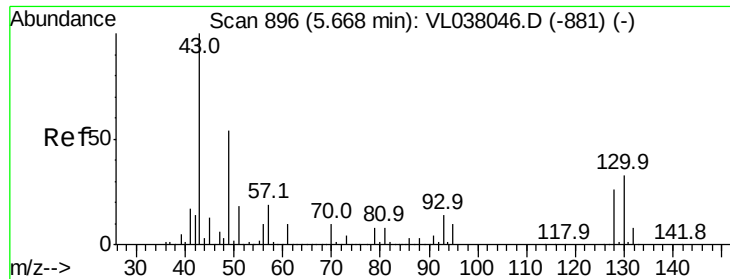
Instrument :
MSVOA_L
ClientSampleId :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

VSTDIC00.03

Acq: 18 Nov 2021 11:55

Tot Ion:

Ion Ratio

49 100

128 51.

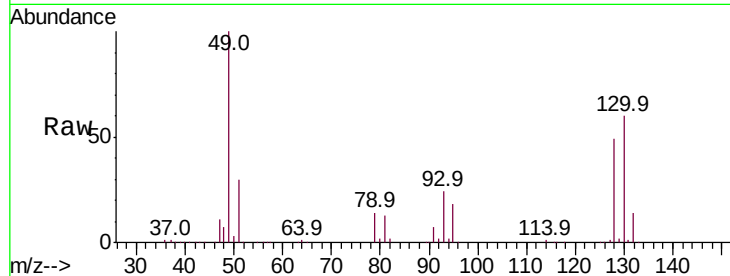
130 64.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

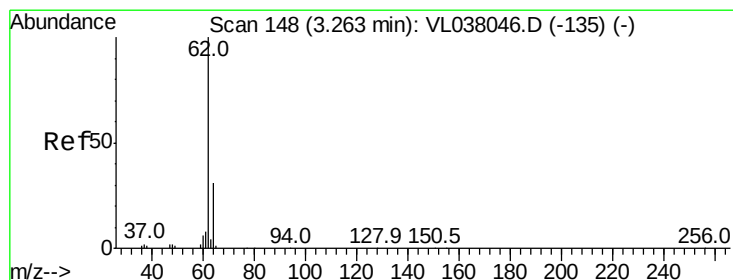
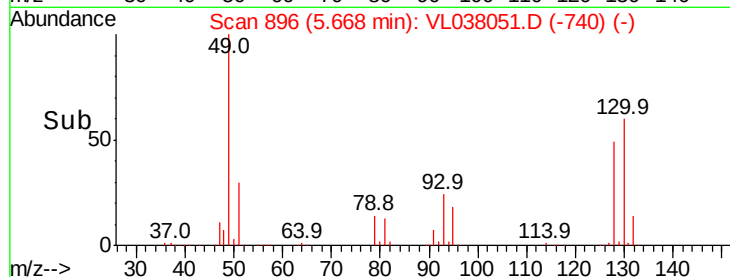
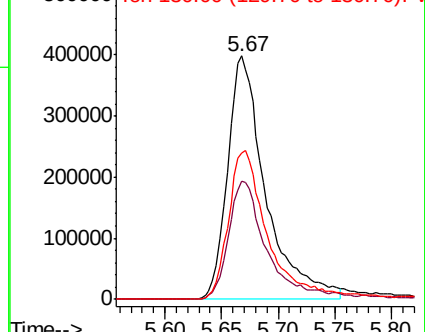
Supervised By :Mahesh Dadoda 11/29/2021



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: 0.025 ppbv m

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL038051.D

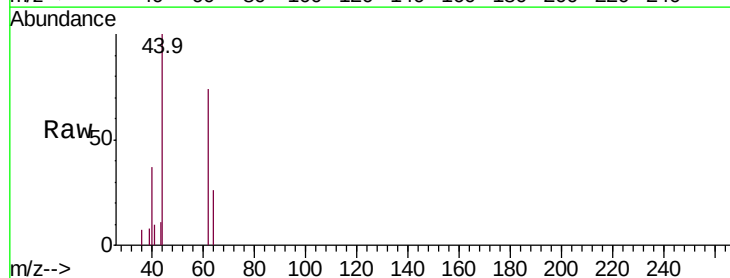
Acq: 18 Nov 2021 11:55

Tgt Ion: 62 Resp: 2083

Ion Ratio Lower Upper

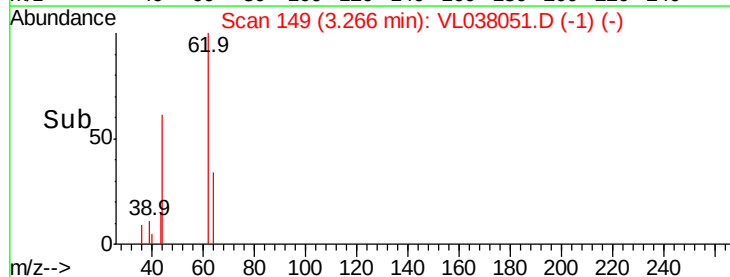
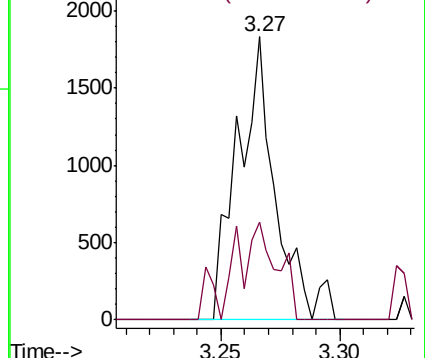
62 100

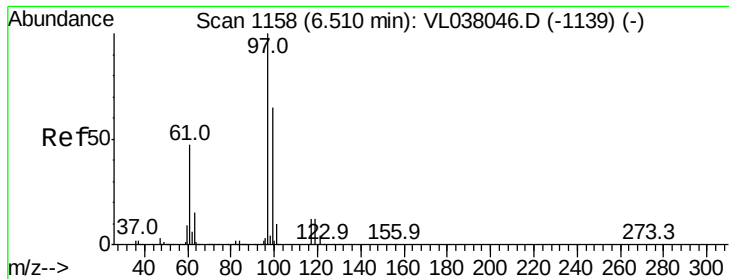
64 34.5 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



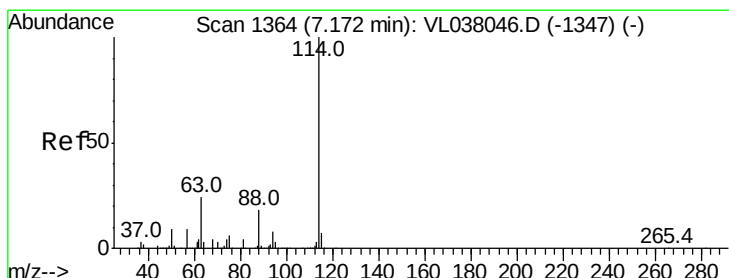
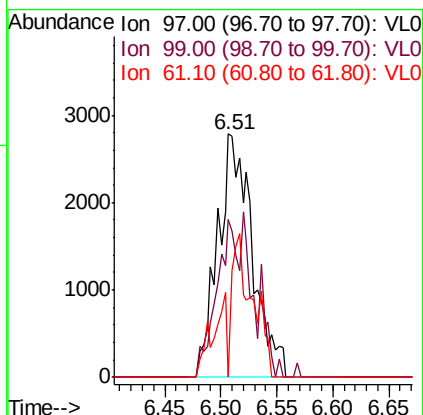
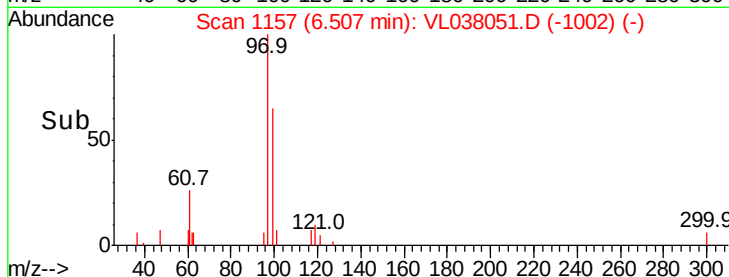
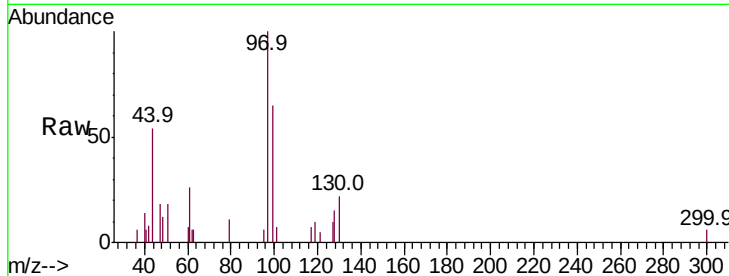


#32
 1,1,1-Trichloroethane
 Concen: 0.024 ppbv m
 RT: 6.51
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 18 Nov 2021 11:55

Tot Ion:
 Ion Ratio
 97 100
 99 0.
 61 0.

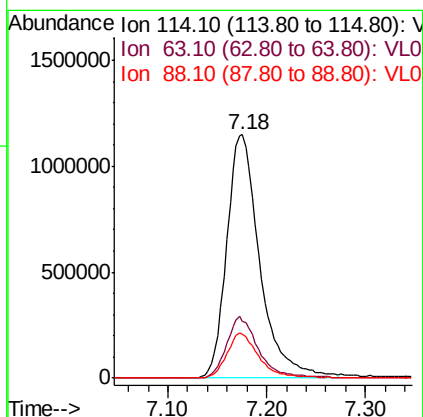
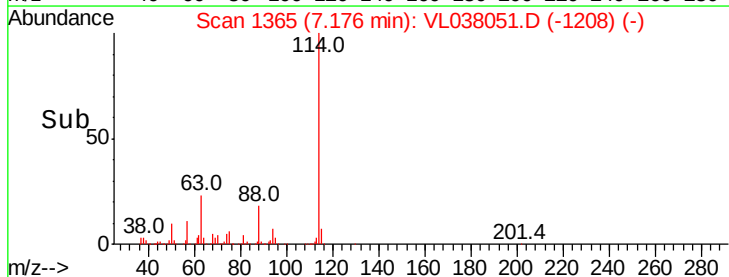
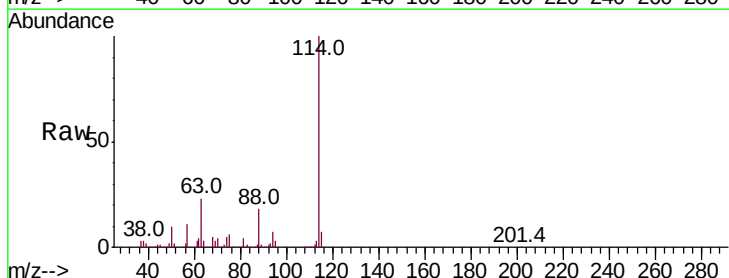
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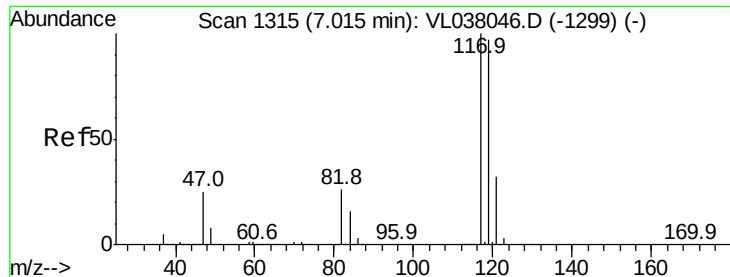
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL038051.D
 Acq: 18 Nov 2021 11:55

Tgt Ion:114 Resp: 2697914
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.7 29.5
 88 18.2 14.4 21.6





#35

Carbon Tetrachloride

Concen: 0.032 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDIC0.03

Acq: 18 Nov 2021 11:55

Tot Ion:1

Ion Rati

117 100

119 77.

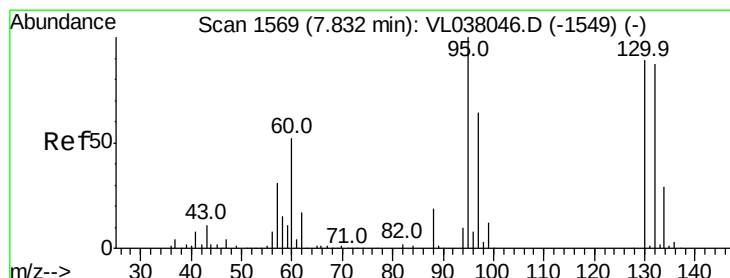
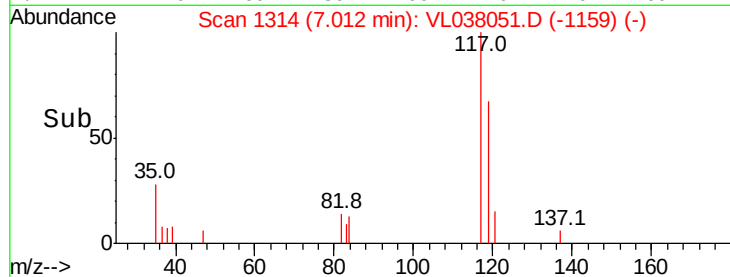
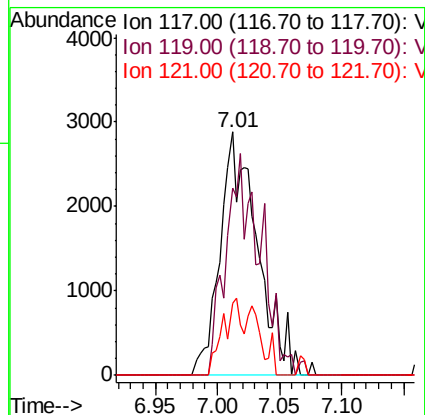
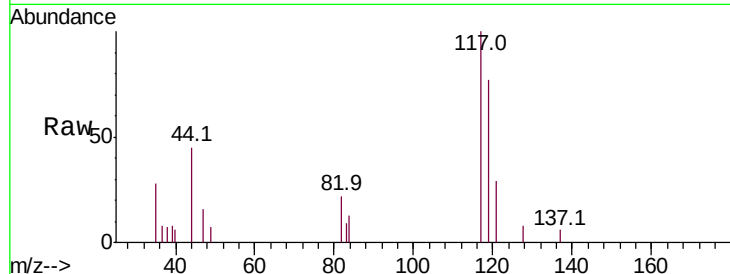
121 29.

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#38

Trichloroethene

Concen: 0.031 ppbv m

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL038051.D

Acq: 18 Nov 2021 11:55

Tgt Ion:130 Resp: 3189

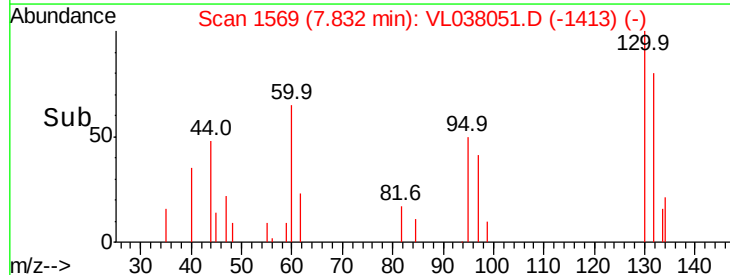
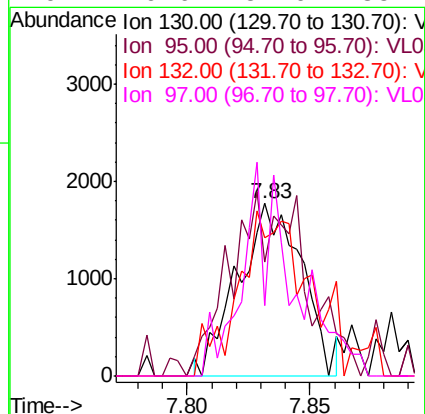
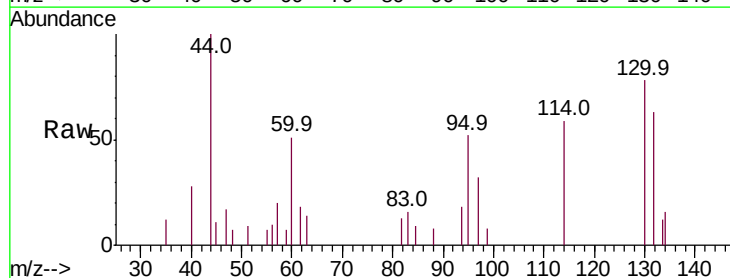
Ion Ratio Lower Upper

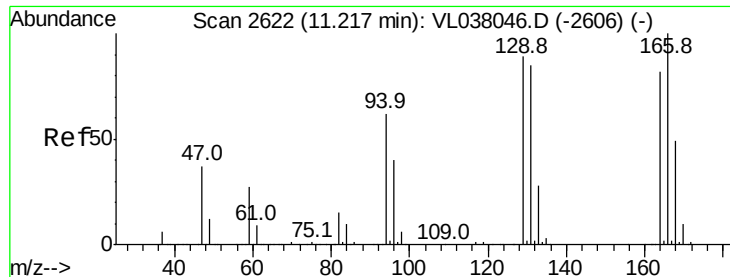
130 100

95 66.4 89.4 134.2#

132 80.3 78.2 117.2

97 40.6 57.0 85.4#





#52

Tetrachloroethene

Concen: 0.038 ppbv m

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

VSTDIC0.03

Acq: 18 Nov 2021 11:55

Tot Ion:1

Ion Rati

164 100

166 113.

129 125.

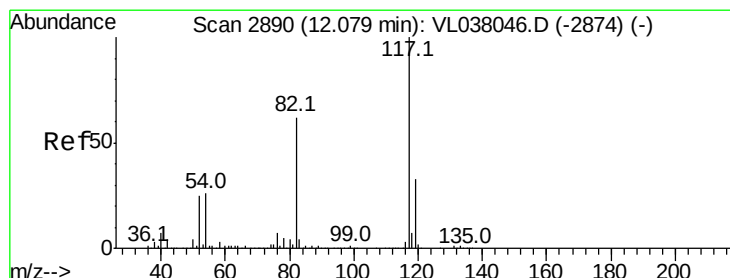
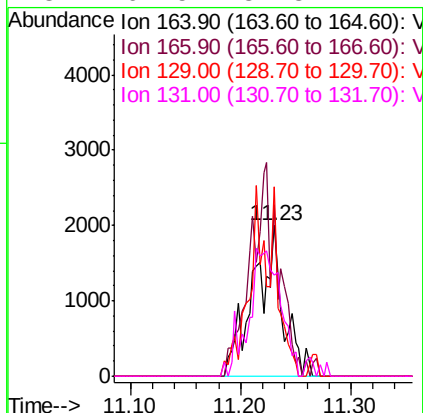
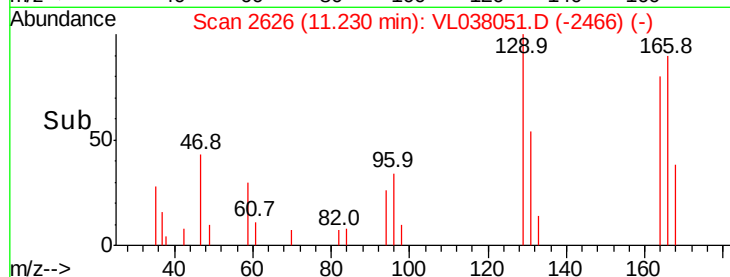
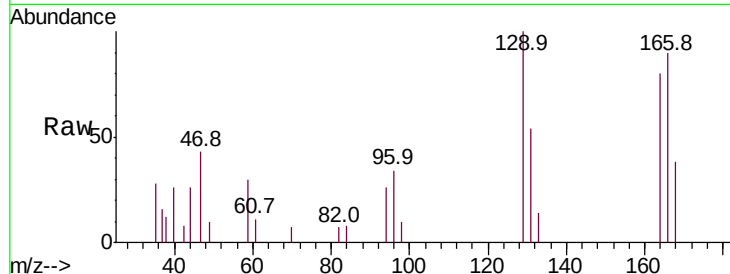
131 67.5 82.8 124.2#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL038051.D

Acq: 18 Nov 2021 11:55

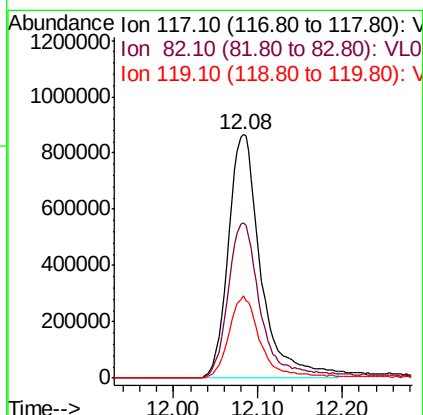
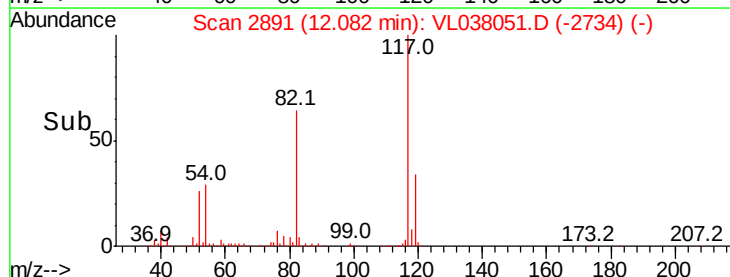
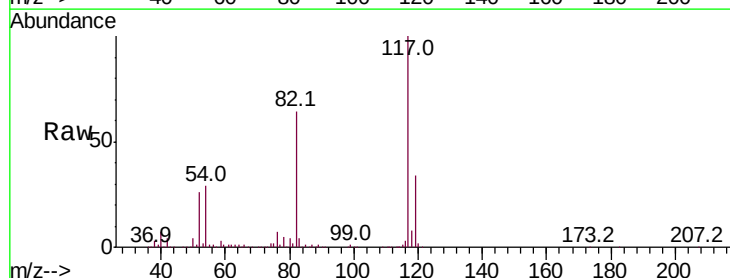
Tgt Ion:117 Resp: 2322240

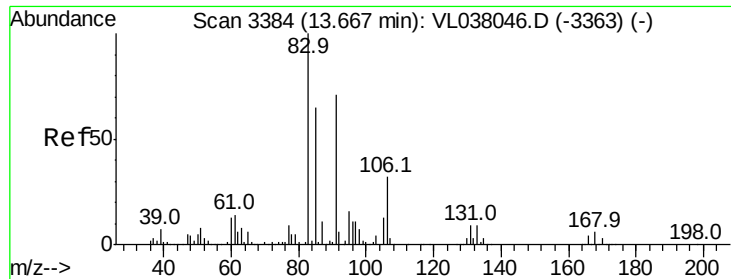
Ion Ratio Lower Upper

117 100

82 66.6 52.8 79.2

119 33.8 26.8 40.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.035 ppbv m

RT: 13.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

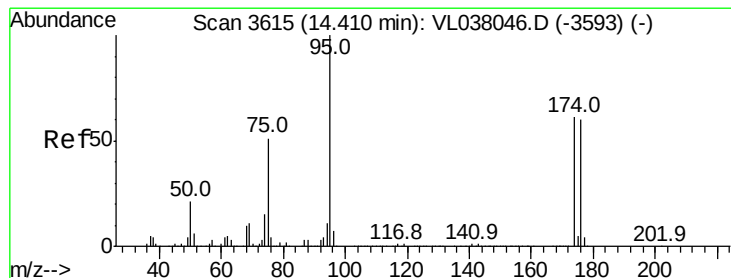
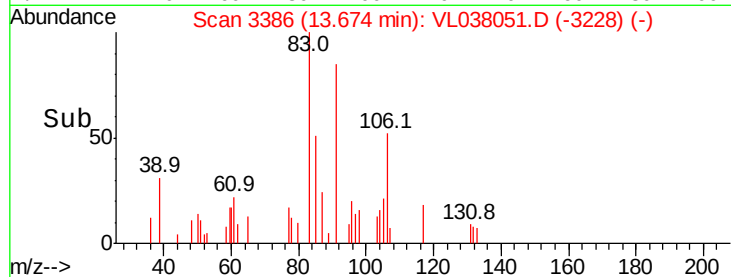
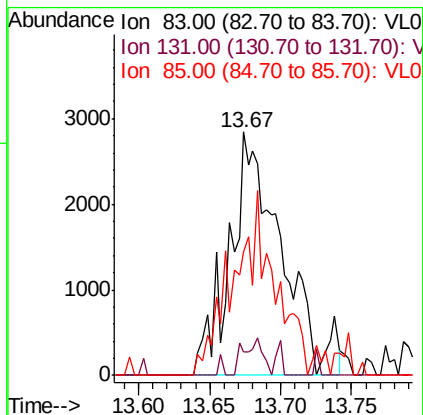
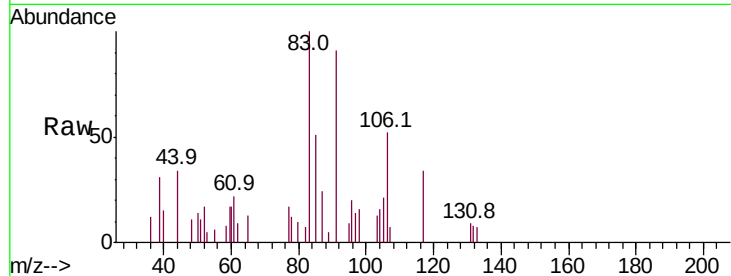
VSTDIC0.03

Acq: 18 Nov 2021 11:55

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

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Supervised By :Mahesh Dadoda 11/29/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 9.988 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.00 min

Lab File: VL038051.D

Acq: 18 Nov 2021 11:55

Tgt Ion: 95 Resp: 1675810
Ion Ratio Lower Upper
95 100
174 66.3 53.1 79.7
175 4.5 4.0 6.0

