

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038216.D
 Acq On : 21 Dec 2021 15:51
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 21 17:04:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 16:50:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	737315	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2293168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1948866	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1541065	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	5932m	0.113	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	14920	0.100	ppbv	98
35) Carbon Tetrachloride	7.01	117	13001m	0.086	ppbv	
38) Trichloroethene	7.84	130	7190	0.087	ppbv	85
52) Tetrachloroethene	11.22	164	7853m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	20365m	0.114	ppbv	

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

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Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
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Quant Time: Dec 21 17:04:17 2021

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL122121

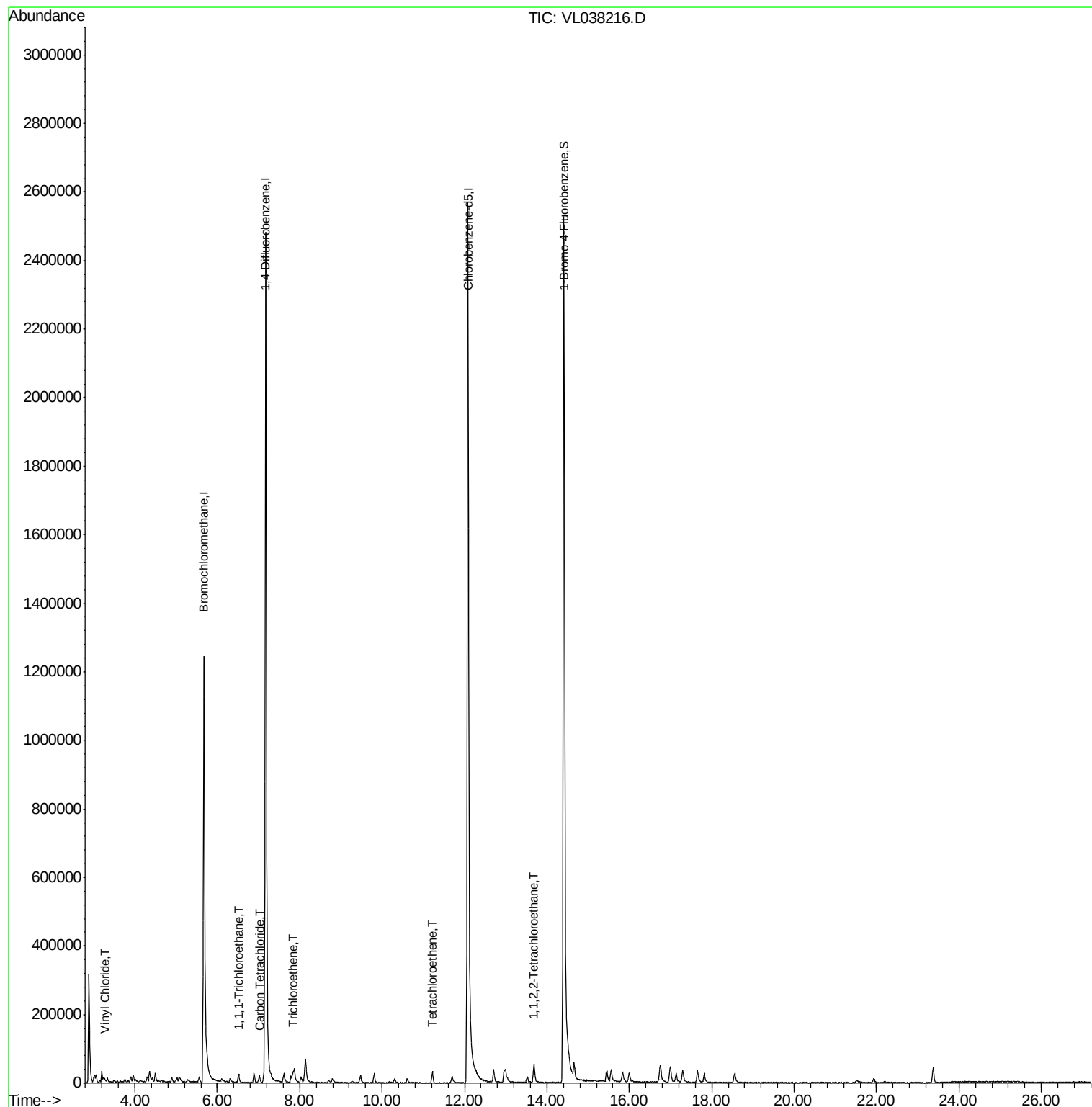
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

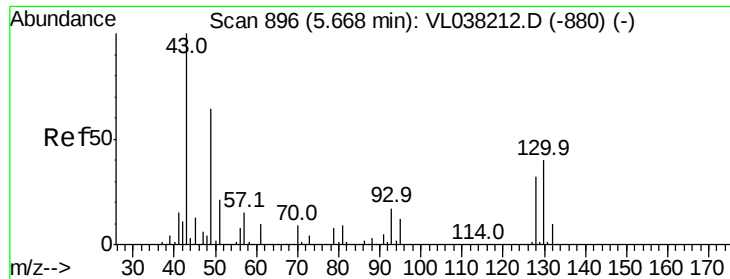
QLast Update : Tue Dec 21 16:50:09 2021

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDIC0.1

Acq: 21 Dec 2021 15:51

Tot Ion:

Ion Ratio

49 100

128 53.

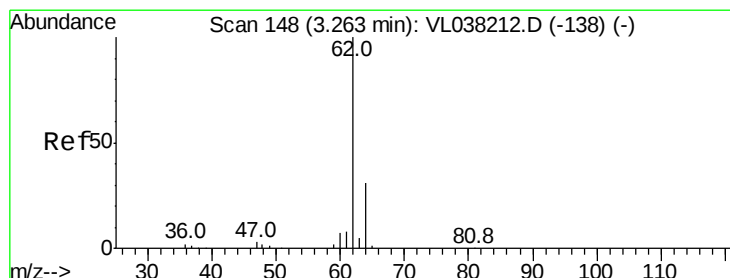
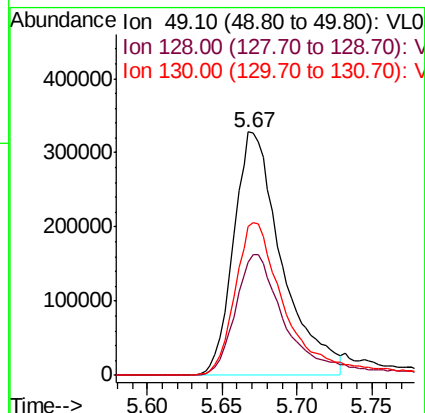
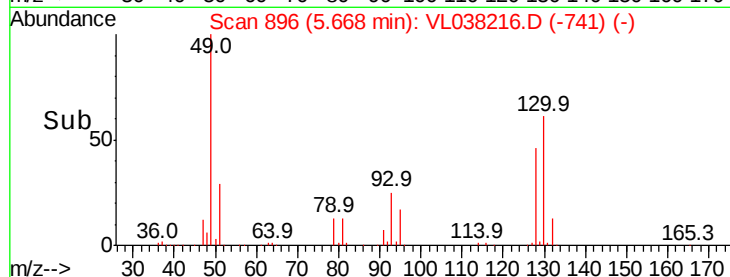
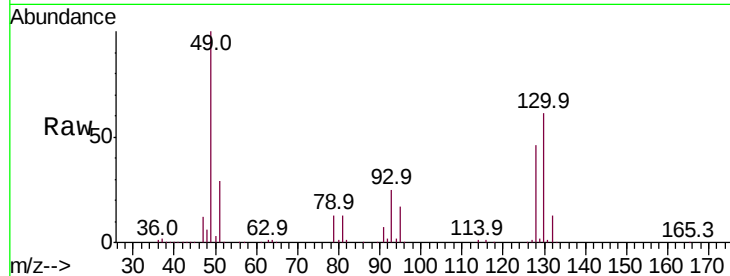
130 68.

Manual Integrations

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Supervised By :Mahesh Dadoda 12/29/2021



#5

Vinyl Chloride

Concen: 0.113 ppbv m

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL038216.D

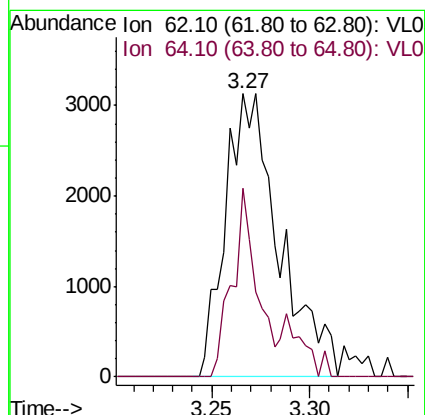
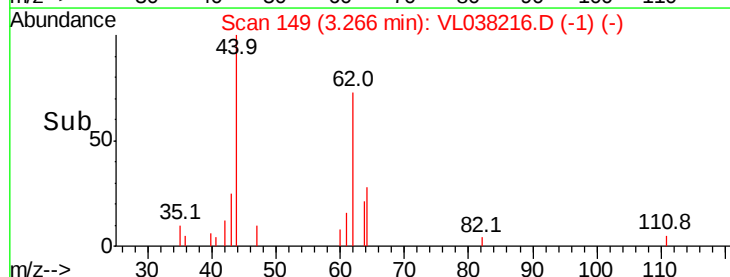
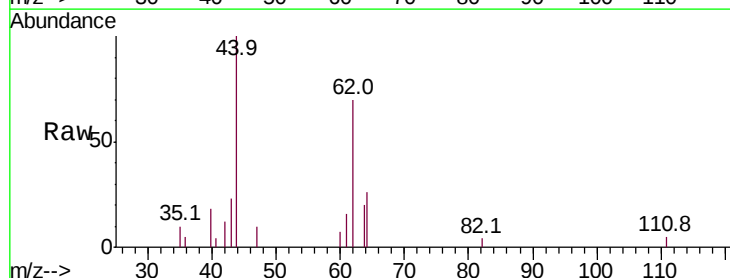
Acq: 21 Dec 2021 15:51

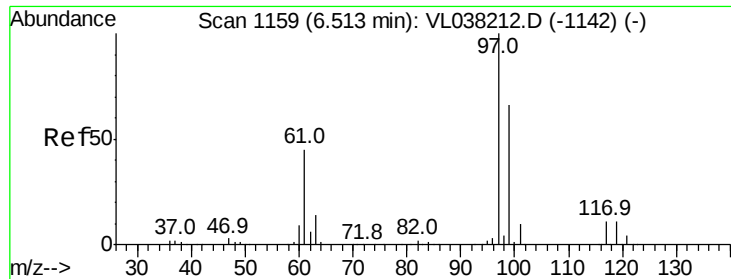
Tgt Ion: 62 Resp: 5932

Ion Ratio Lower Upper

62 100

64 37.9 25.1 37.7#





#32

1,1,1-Trichloroethane

Concen: 0.100 ppbv

RT: 6.52 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDIC01

Acq: 21 Dec 2021 15:51

Tot Ion:

Ion Ratio

97 100

99 65.

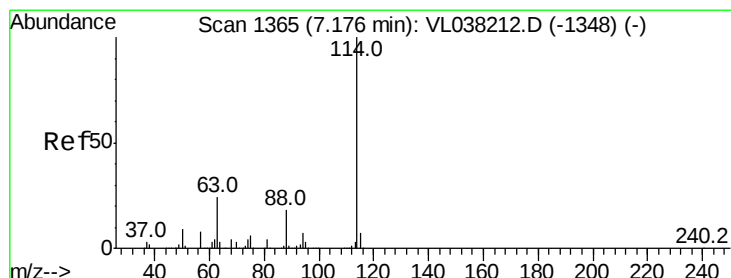
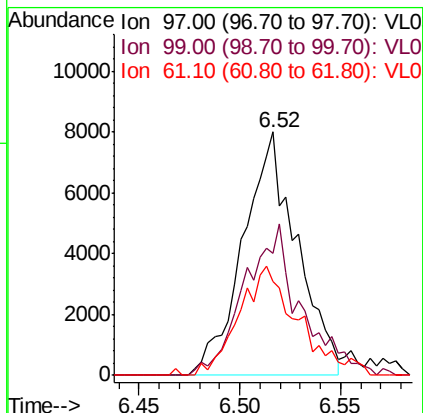
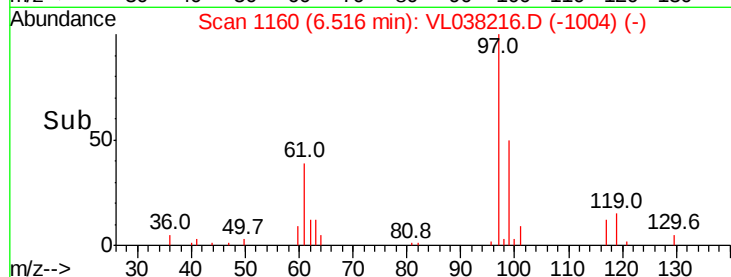
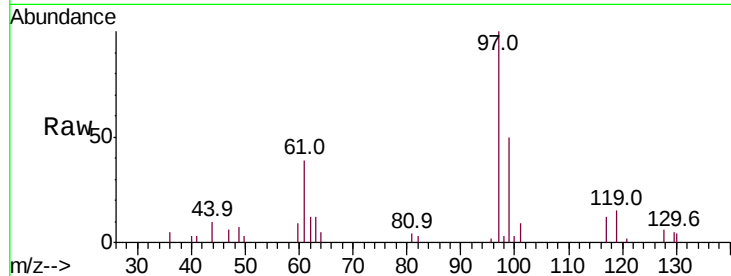
61 49.

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: VL038216.D

Acq: 21 Dec 2021 15:51

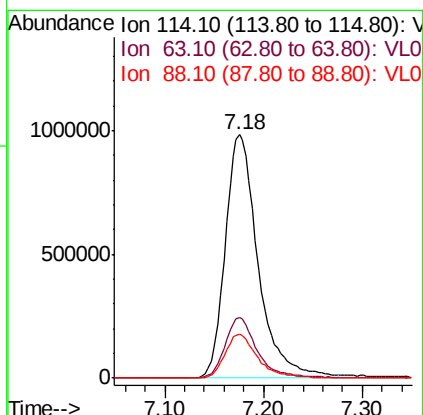
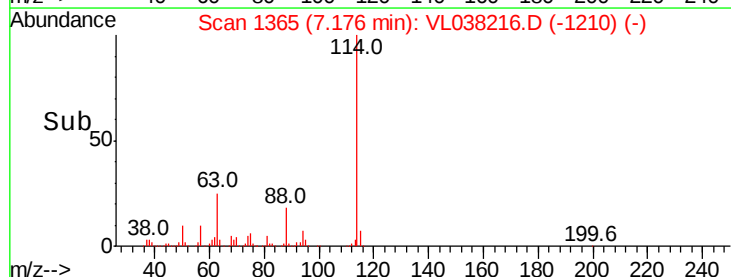
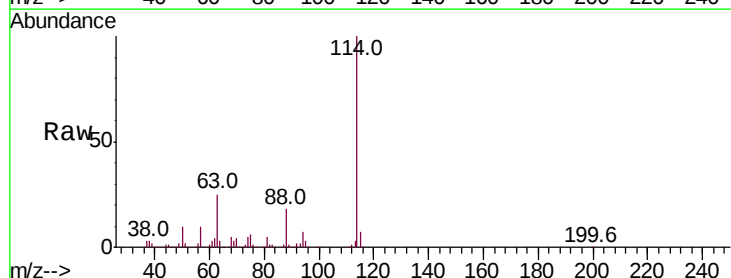
Tgt Ion:114 Resp: 2293168

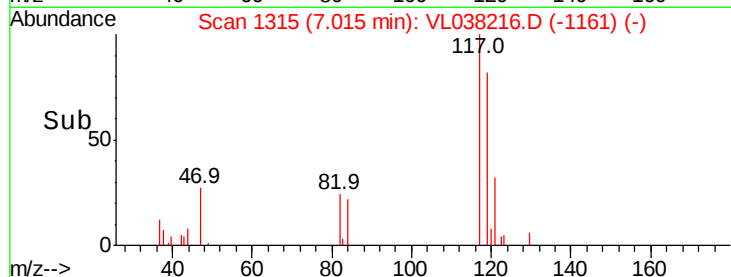
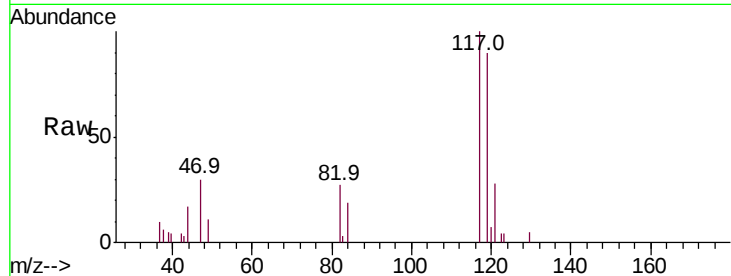
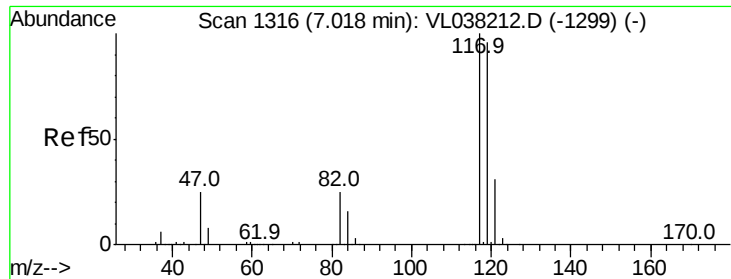
Ion Ratio Lower Upper

114 100

63 24.8 19.7 29.5

88 18.1 14.3 21.5





#35

Carbon Tetrachloride

Concen: 0.086 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 15:51 VSTDIC0.1

Tot Ion:1

Ion Ratio

117 100

119 90.

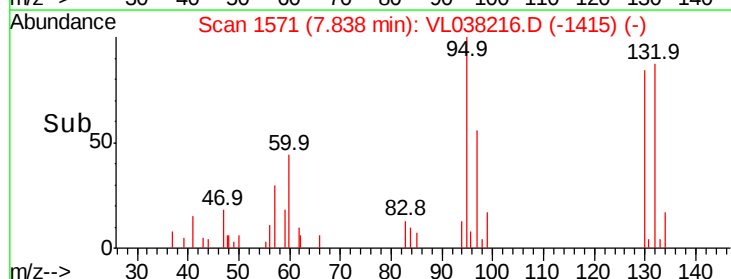
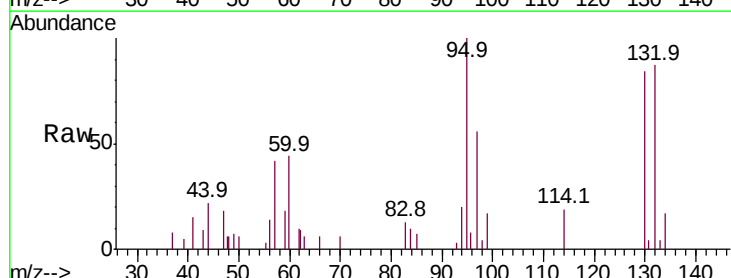
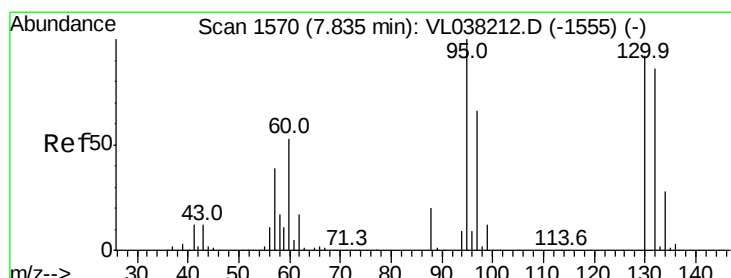
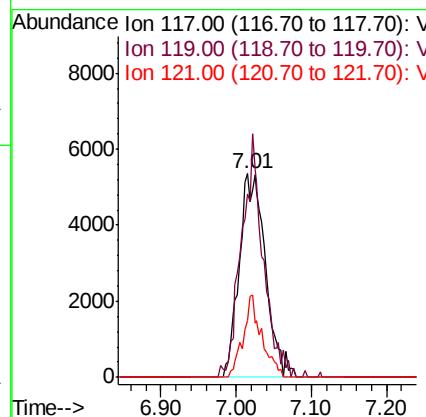
121 27.

Manual Integrations

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#38

Trichloroethene

Concen: 0.087 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL038216.D

Acq: 21 Dec 2021 15:51

Tgt Ion:130 Resp: 7190

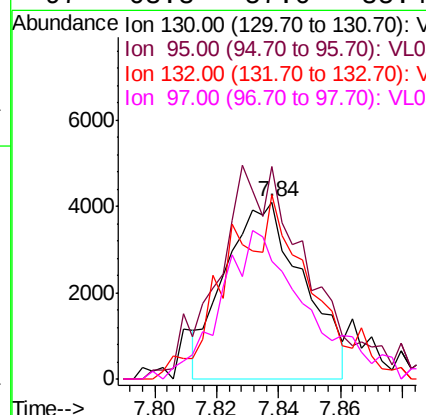
Ion Ratio Lower Upper

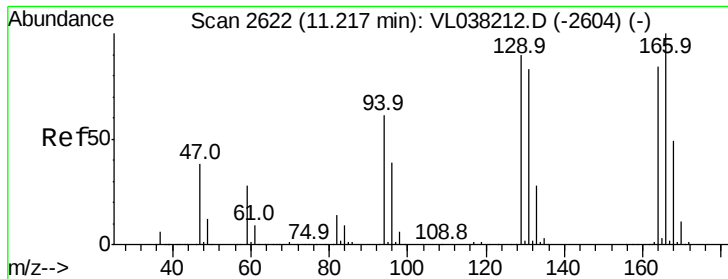
130 100

95 125.4 87.0 130.4

132 111.3 75.1 112.7

97 63.8 57.0 85.4





#52

Tetrachloroethene

Concen: 0.096 ppbv m

RT: 11.22 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Dec 2021 15:51 VSTDIC0.1

Tot Ion:1

Ion Rati

164 100

166 126.

129 137.

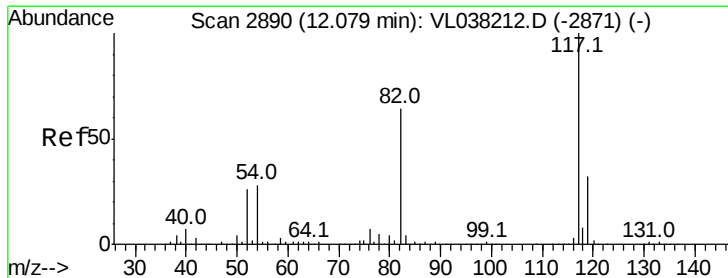
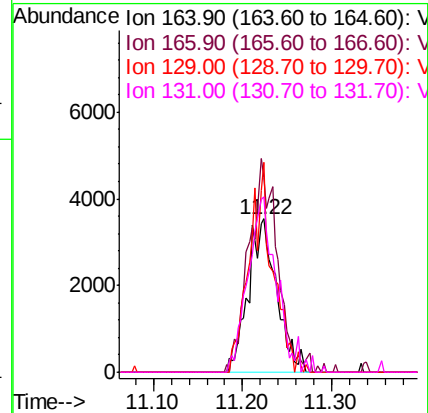
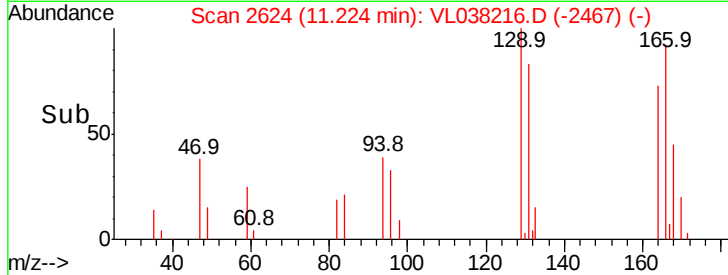
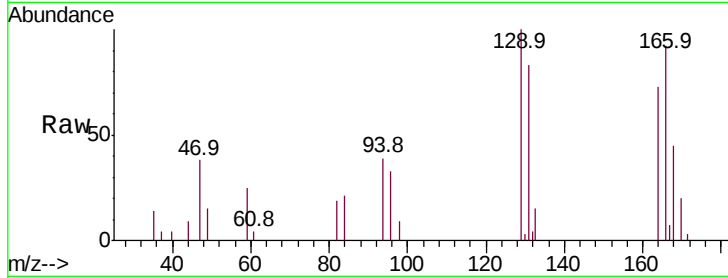
131 113.9 79.3 118.9

Manual Integrations

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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: VL038216.D

Acq: 21 Dec 2021 15:51

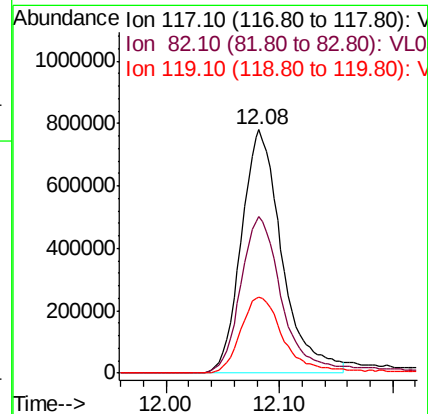
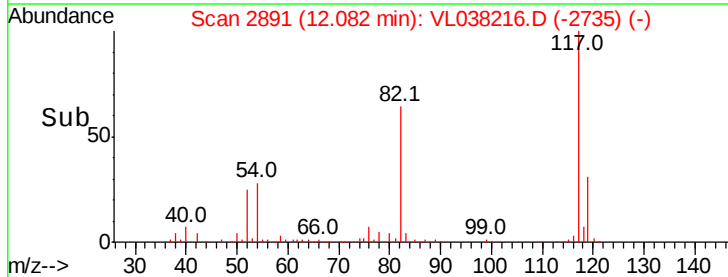
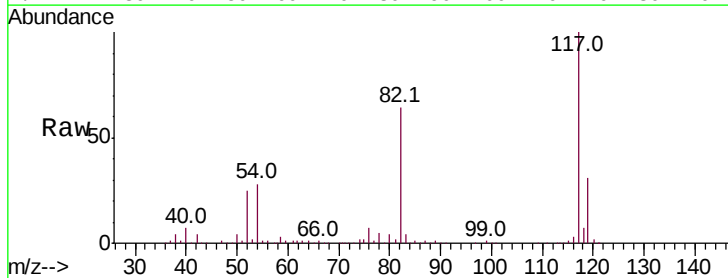
Tgt Ion:117 Resp: 1948866

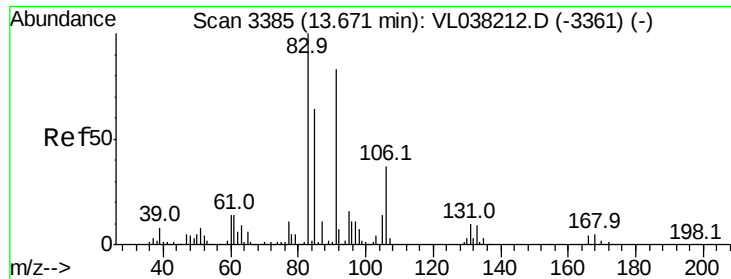
Ion Ratio Lower Upper

117 100

82 70.1 53.3 79.9

119 34.6 25.5 38.3



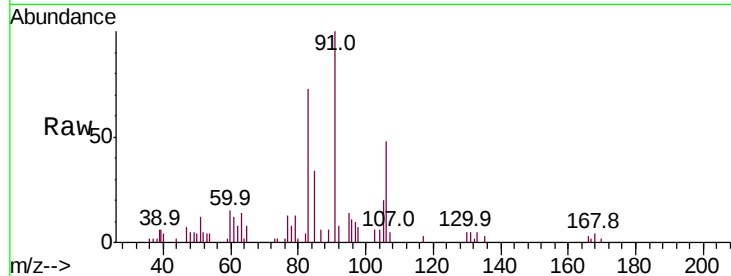


#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.114 ppbv m
 RT: 13.68
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VSTDIC0.1
 Acq: 21 Dec 2021 15:51

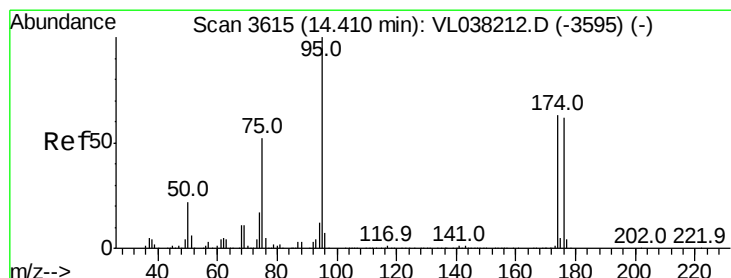
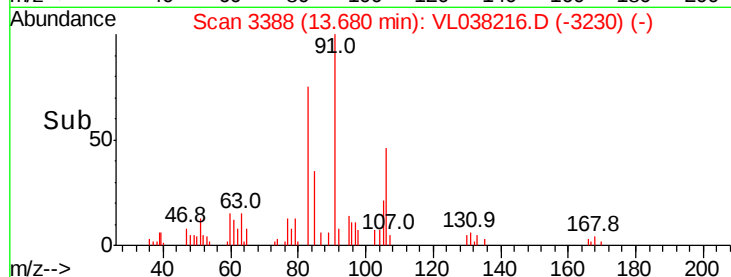
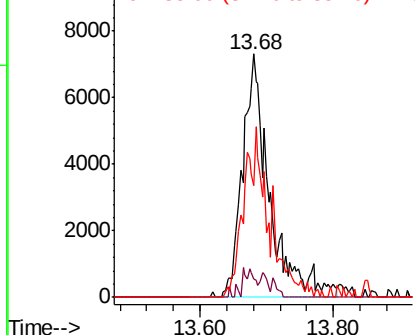
Tot Ion:
 Ion Ratio
 83 100
 131 10.
 85 66.

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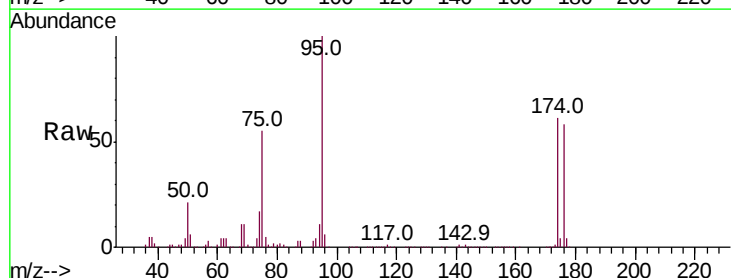


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.686 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. -0.00 min
 Lab File: VL038216.D
 Acq: 21 Dec 2021 15:51

Tgt Ion: 95 Resp: 1541065
 Ion Ratio Lower Upper
 95 100
 174 64.4 54.6 81.8
 175 4.6 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

