

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\  
 Data File : VL038028.D  
 Acq On : 16 Nov 2021 4:56  
 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 11/17/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 16 09:54:18 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Tue Nov 16 03:19:45 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 789013   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3022312  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2693173  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2006656  | 10.37    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.70% |

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|-------------------------------|-------|------|----------|-------|-------|--------|
| 5) Vinyl Chloride             | 3.26  | 62   | 2307m    | 0.041 | ppbv  |        |
| 32) 1,1,1-Trichloroethane     | 6.51  | 97   | 8109m    | 0.057 | ppbv  |        |
| 35) Carbon Tetrachloride      | 7.01  | 117  | 7346m    | 0.040 | ppbv  |        |
| 38) Trichloroethene           | 7.83  | 130  | 4734m    | 0.046 | ppbv  |        |
| 52) Tetrachloroethene         | 11.21 | 164  | 4010m    | 0.043 | ppbv  |        |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 8581m    | 0.036 | ppbv  |        |

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

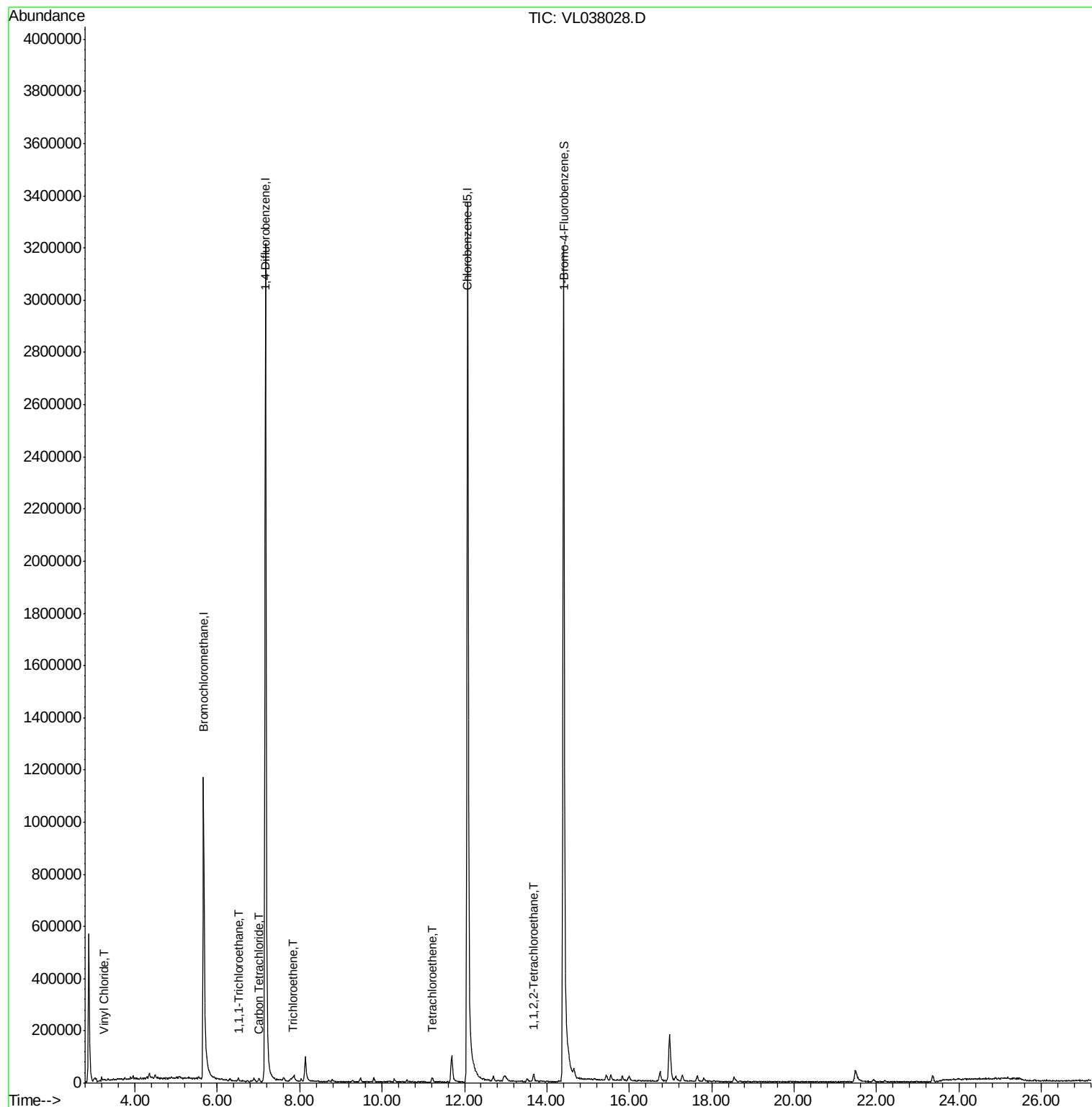
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111621\  
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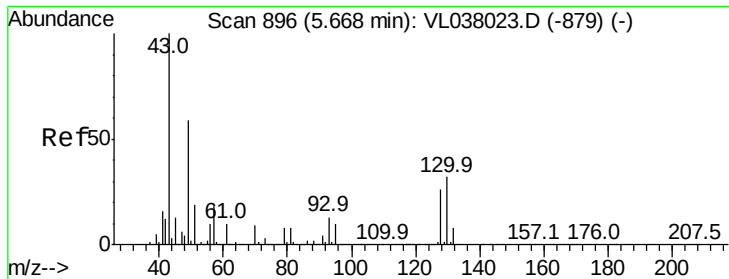
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
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Quant Time: Nov 16 09:54:18 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111621  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Tue Nov 16 03:19:45 2021  
Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 11/17/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:50 VSTDIC0.03

Tot Ion:

Ion Ratio

49 100

128 47.

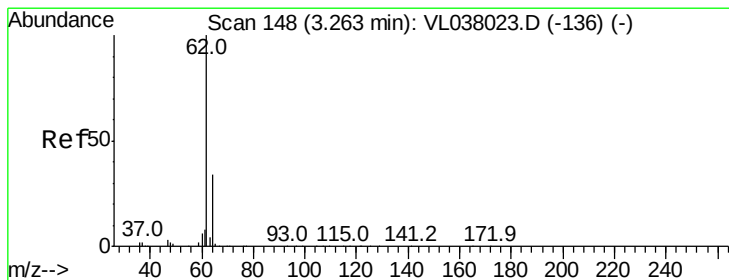
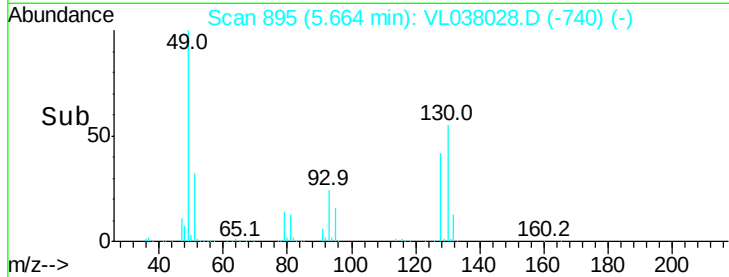
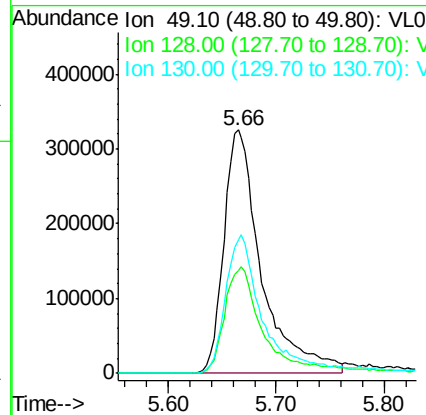
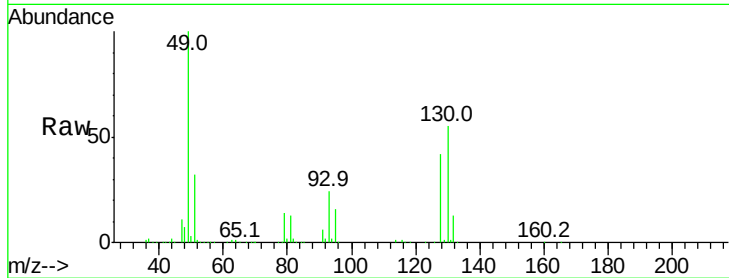
130 60.

Manual Integrations

APPROVED

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#5

Vinyl Chloride

Concen: 0.041 ppbv m

RT: 3.26 min Scan# 147

Delta R.T. -0.00 min

Lab File: VL038028.D

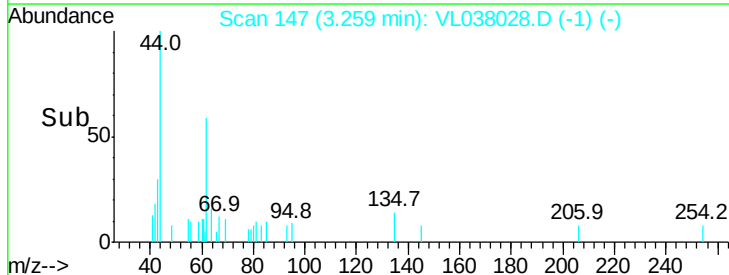
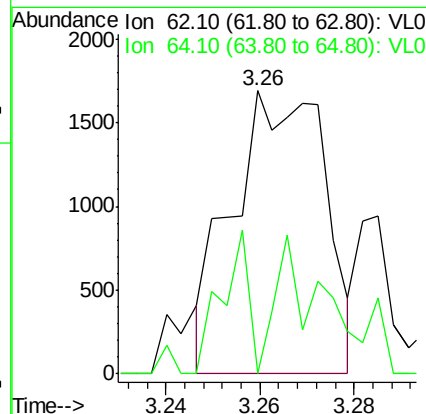
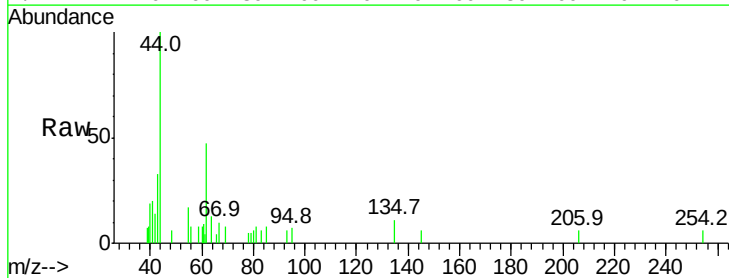
Acq: 16 Nov 2021 4:56

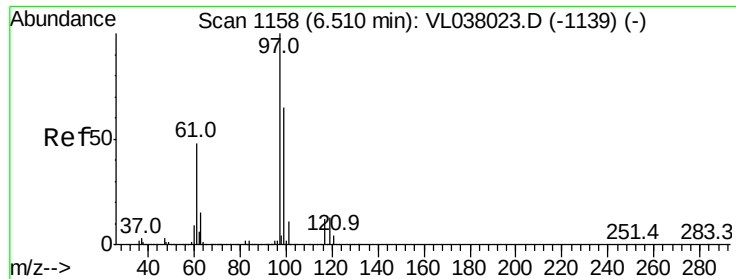
Tgt Ion: 62 Resp: 2307

Ion Ratio Lower Upper

62 100

64 0.0 27.4 41.0#





#32

1,1,1-Trichloroethane

Concen: 0.057 ppbv m

RT: 6.51

Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 16 Nov 2021 4:50

Tot Ion:

Ion Ratio

97 100

99 0.

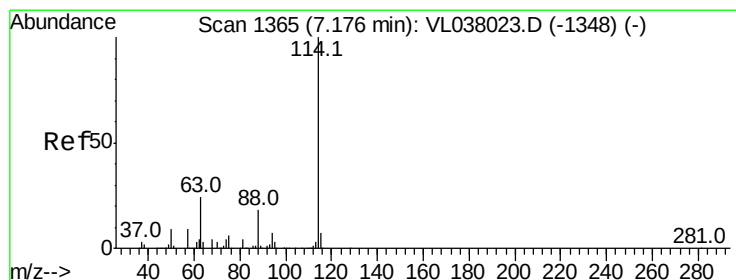
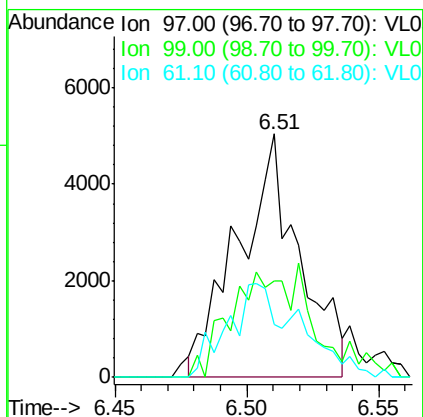
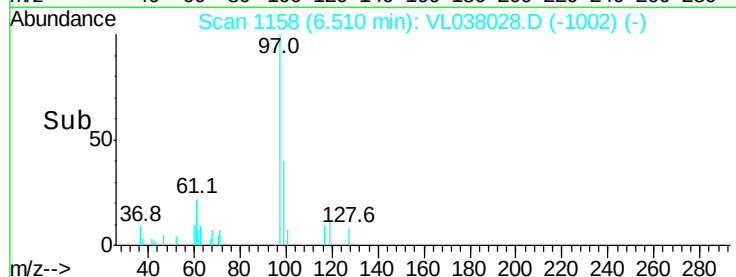
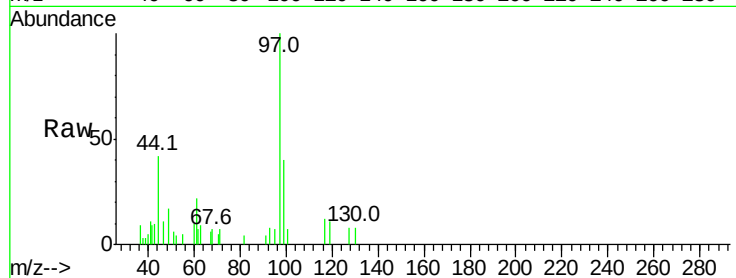
61 45.

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL038028.D

Acq: 16 Nov 2021 4:56

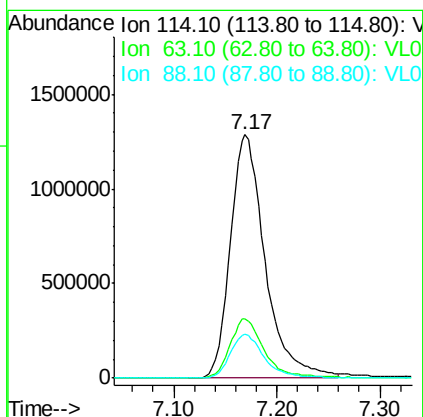
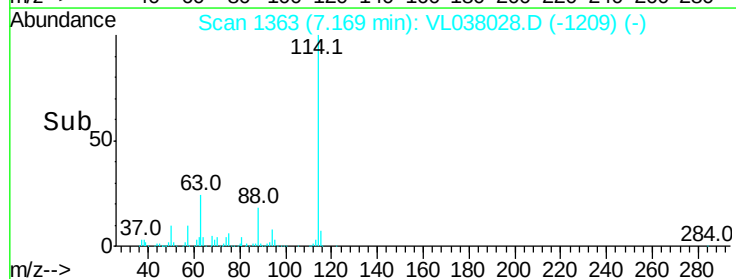
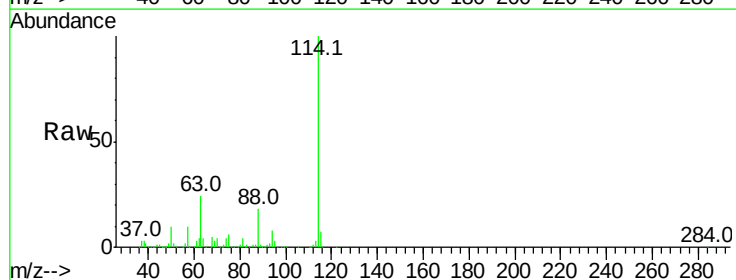
Tgt Ion:114 Resp: 3022312

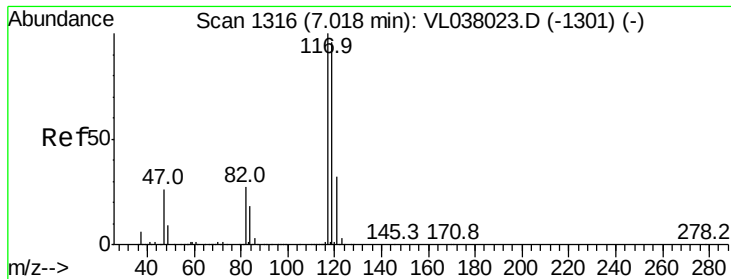
Ion Ratio Lower Upper

114 100

63 24.4 19.8 29.6

88 18.2 14.6 21.8





#35

Carbon Tetrachloride

Concen: 0.040 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 16 Nov 2021 4:50 VSTDIC0.03

Tot Ion:1

Ion Rati

117 100

119 82.

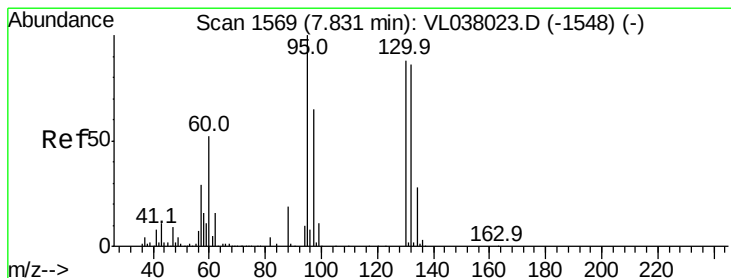
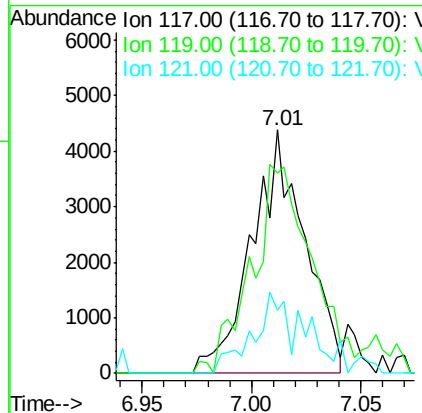
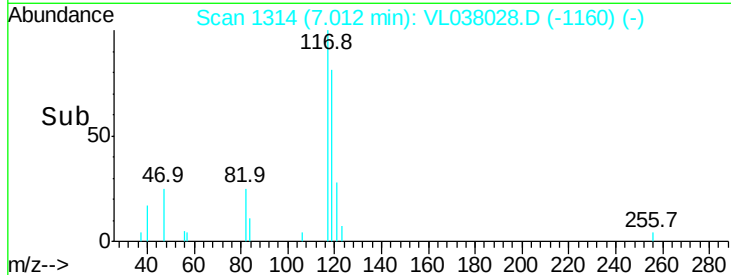
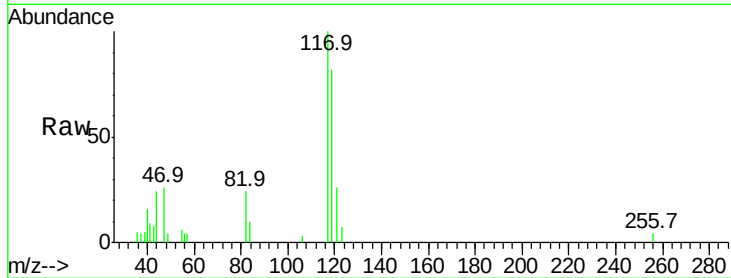
121 26.

Manual Integrations

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#38

Trichloroethene

Concen: 0.046 ppbv m

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL038028.D

Acq: 16 Nov 2021 4:56

Tgt Ion:130 Resp: 4734

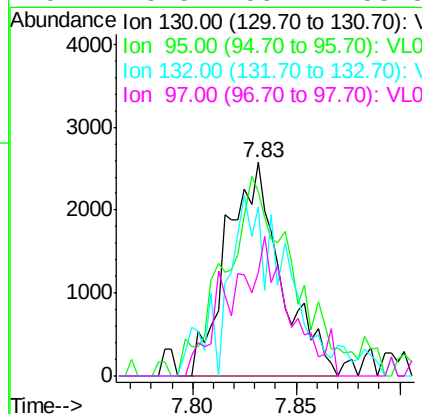
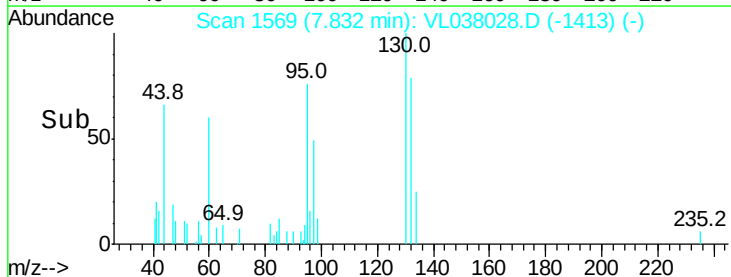
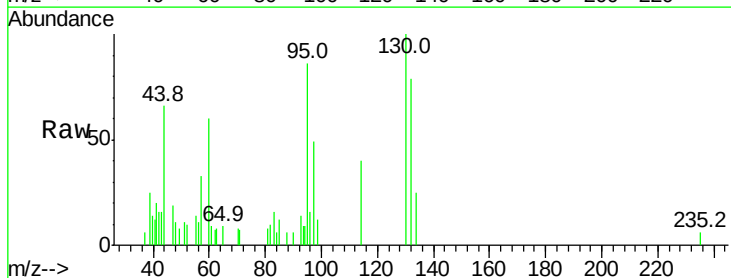
Ion Ratio Lower Upper

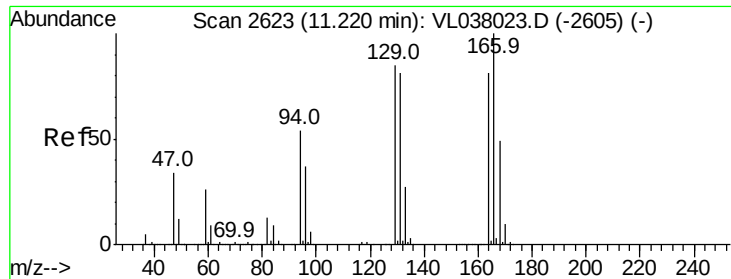
130 100

95 86.3 90.5 135.7#

132 79.3 77.4 116.0

97 48.5 59.2 88.8#





#52

Tetrachloroethene

Concen: 0.043 ppbv m

RT: 11.21

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 16 Nov 2021 4:56

Tot Ion:1

Ion Ratio

164 100

166 119.

129 76.

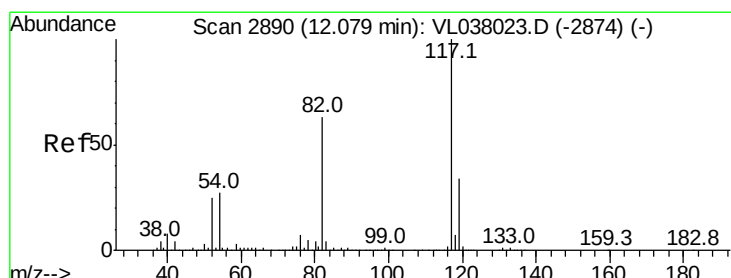
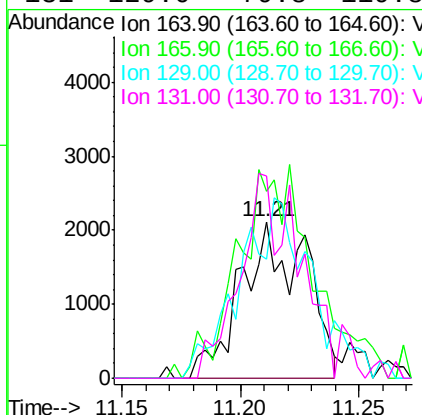
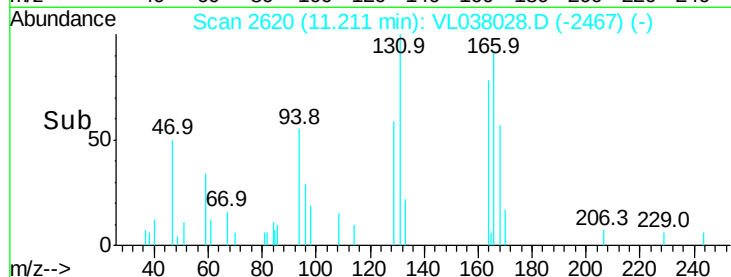
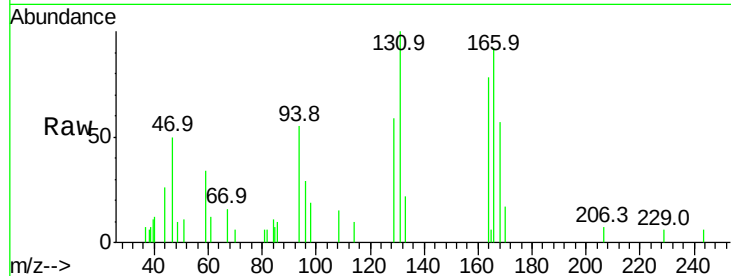
131 129.0 79.8 119.8#

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038028.D

Acq: 16 Nov 2021 4:56

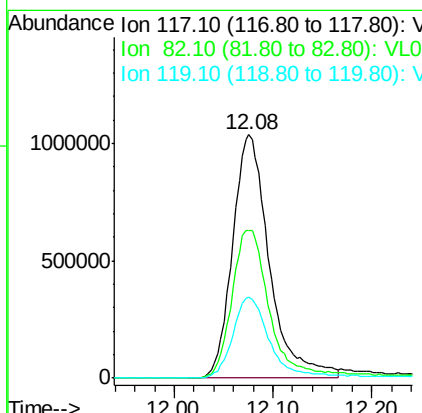
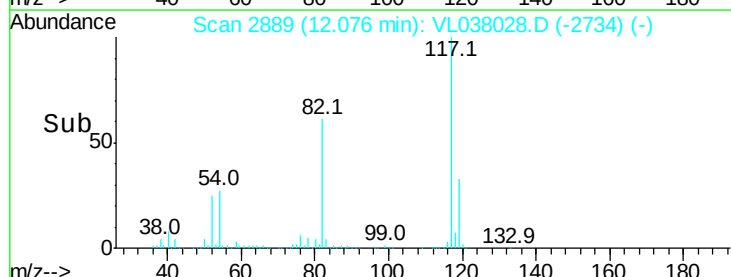
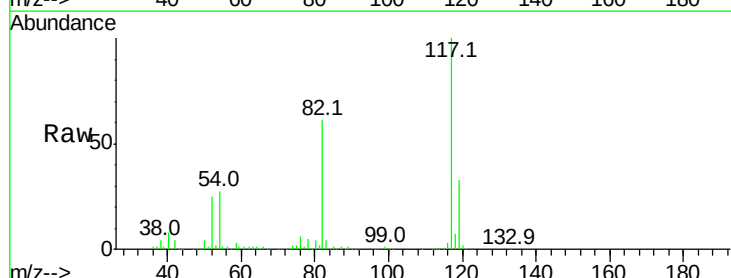
Tgt Ion:117 Resp: 2693173

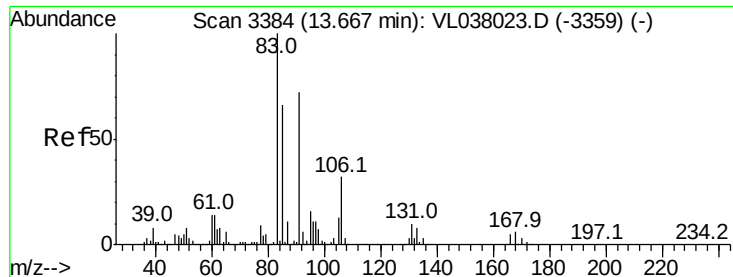
Ion Ratio Lower Upper

117 100

82 66.2 50.0 75.0

119 35.3 44.9 67.3#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.036 ppbv m

RT: 13.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 16 Nov 2021 4:56

Tot Ion:

Ion Ratio

83 100

131 0.

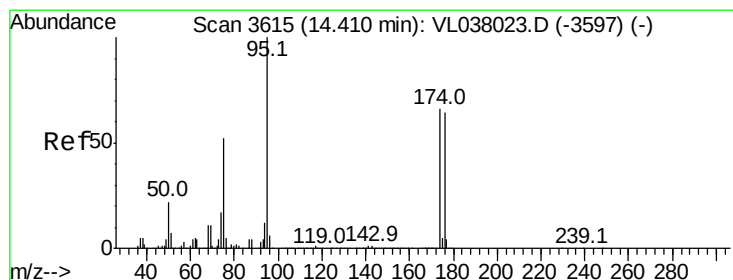
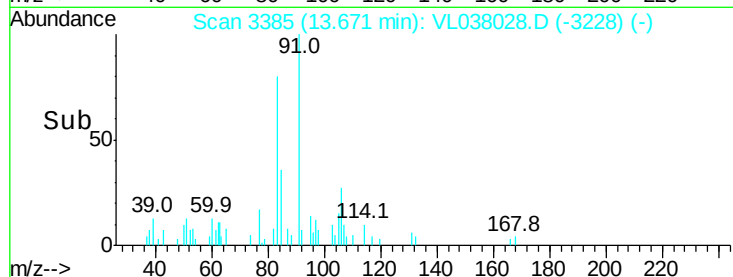
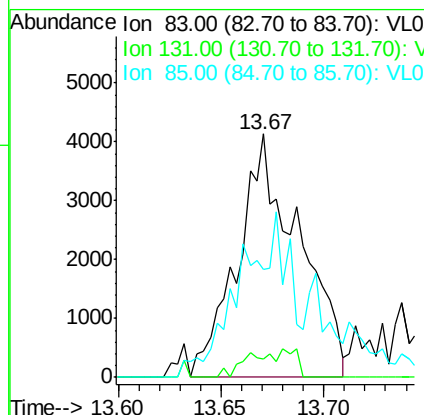
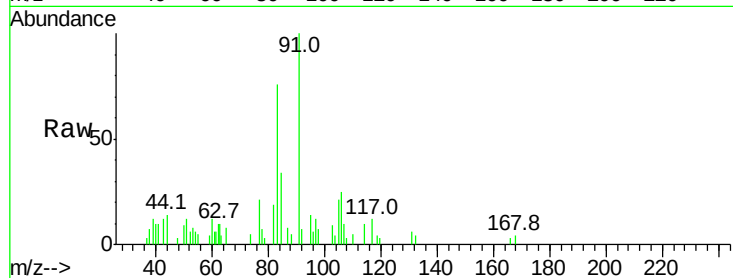
85 0.

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.371 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL038028.D

Acq: 16 Nov 2021 4:56

Tgt Ion: 95 Resp: 2006656

Ion Ratio Lower Upper

95 100

174 67.7 54.9 82.3

175 4.8 4.0 6.0

