

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081220\  
 Data File : VV017954.D  
 Acq On : 13 Aug 2020 02:54  
 Operator : SY/MD  
 Sample : L3644-20  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F2M14

Quant Time: Aug 13 06:02:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 13 05:58:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 242489   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 237038   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 106879   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 83862    | 45.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.66%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 72929    | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.36%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 124587   | 35.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.40%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 123192   | 101.66   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.66% |
| 24) Chloroform-d               | 4.38    | 84    | 158155   | 46.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.92%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 113886   | 52.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.12% |
| 32) Benzene-d6                 | 5.08    | 84    | 326897   | 50.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.08% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 108812   | 50.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.90% |
| 41) Toluene-d8                 | 7.34    | 98    | 284304   | 48.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.78%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 44526    | 45.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.94%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 60328    | 88.02    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 133649   | 48.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 115626   | 54.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.94% |

## Target Compounds

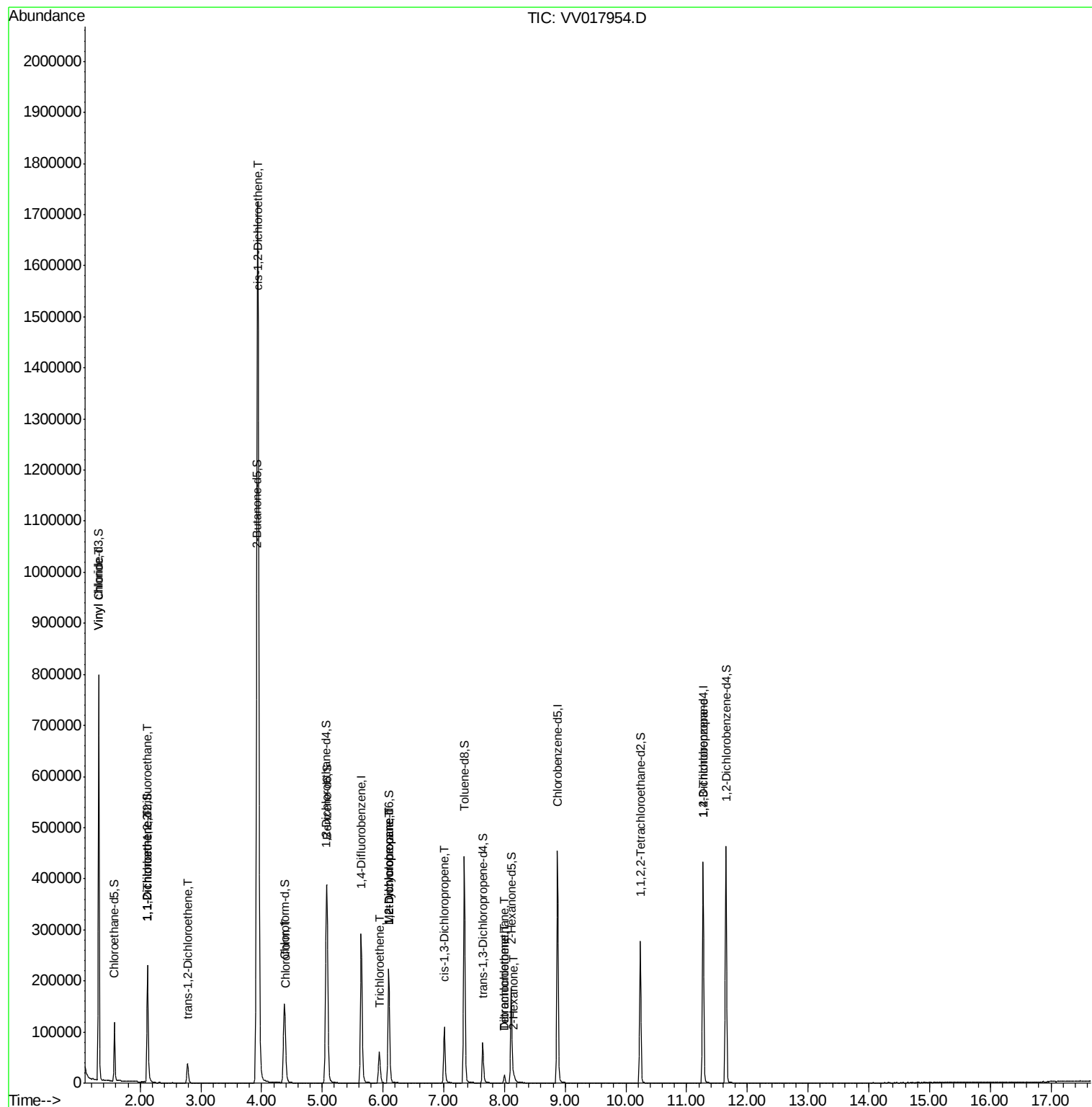
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Vinyl chloride              | 1.32  | 62   | 402171   | 186.652 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1133     | 0.659   | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.13  | 96   | 1939     | 1.192   | ug/L # | 1      |
| 17) trans-1,2-Dichloroethene   | 2.78  | 96   | 13766    | 8.233   | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 3.94  | 96   | 926877   | 504.440 | ug/L   | 100    |
| 25) Chloroform                 | 4.40  | 83   | 7069     | 2.061   | ug/L   | 98     |
| 34) Trichloroethene            | 5.94  | 95   | 19025    | 9.814   | ug/L   | 94     |
| 35) Methylcyclohexane          | 6.09  | 83   | 25803    | 8.952   | ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.09  | 63   | 12111    | 6.056   | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 2722     | 0.960   | ug/L # | 75     |
| 46) Tetrachloroethene          | 8.00  | 164  | 3699     | 2.602   | ug/L   | 98     |
| 48) 2-Hexanone                 | 8.16  | 43   | 4885     | 2.317   | ug/L # | 90     |
| 49) Dibromochloromethane       | 8.00  | 129  | 3444     | 1.905   | ug/L # | 10     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75   | 13228    | 5.356   | ug/L   | 91     |

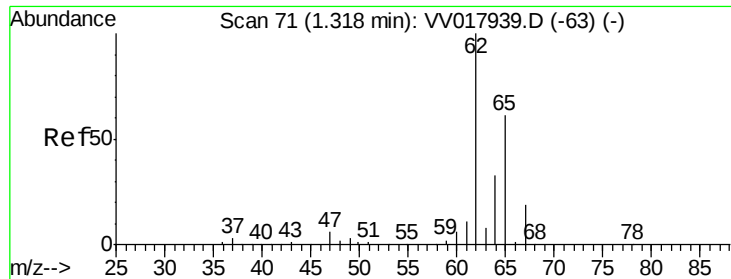
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV081220\  
Data File : VV017954.D  
Acq On : 13 Aug 2020 02:54  
Operator : SY/MD  
Sample : L3644-20  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F2M14

Quant Time: Aug 13 06:02:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 13 05:58:58 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 186.652 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :

MSVOA\_V

ClientSampleId :

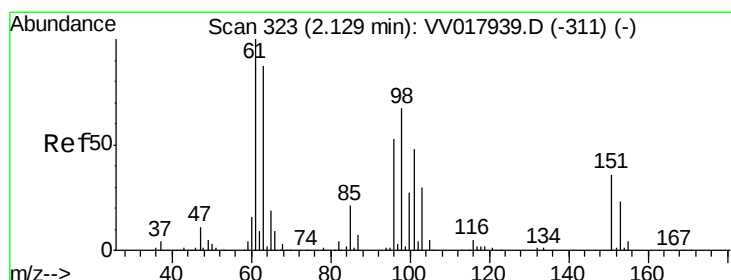
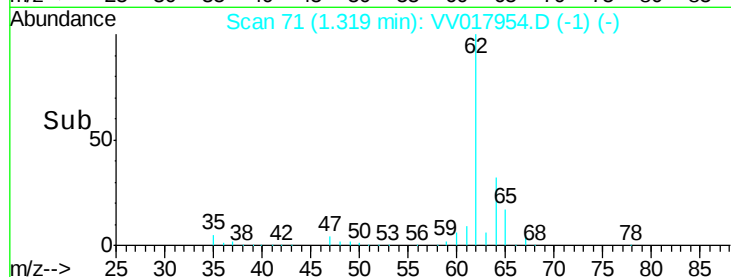
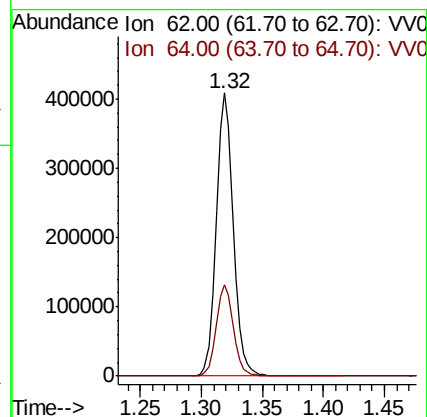
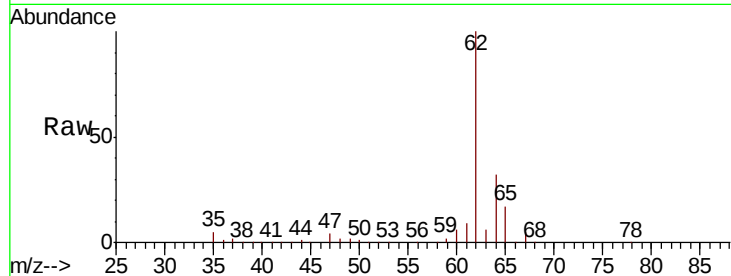
F2M14

Tot Ion: 62 Resp: 402171

Ion Ratio Lower Upper

62 100

64 32.5 22.4 41.6



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.659 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

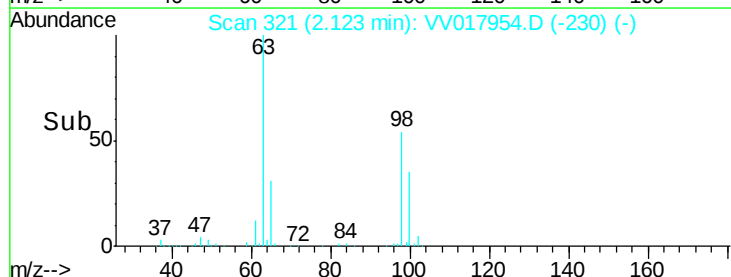
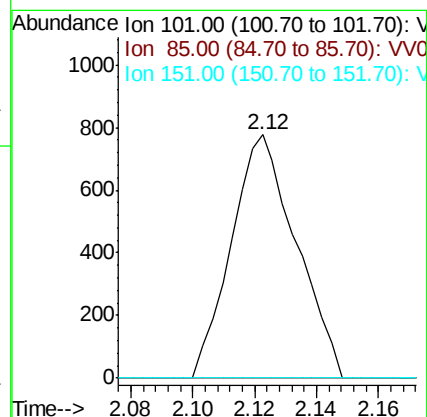
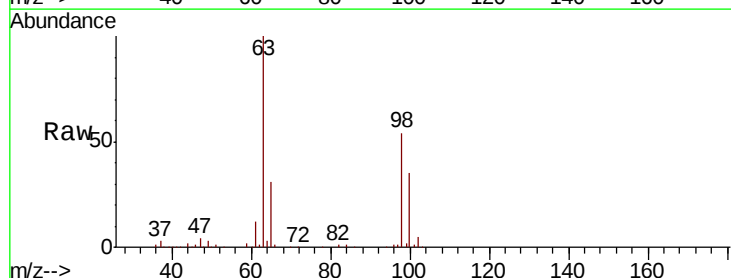
Tgt Ion: 101 Resp: 1133

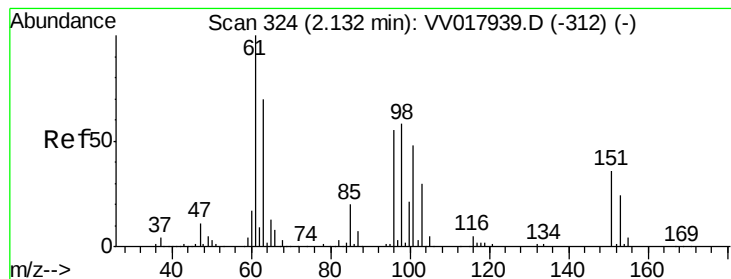
Ion Ratio Lower Upper

101 100

85 0.0 34.9 52.3#

151 0.0 59.1 88.7#





#12

1,1-Dichloroethene

Concen: 1.192 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :

MSVOA\_V

ClientSampled :

F2M14

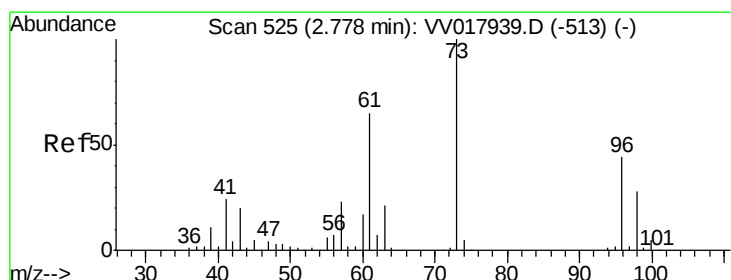
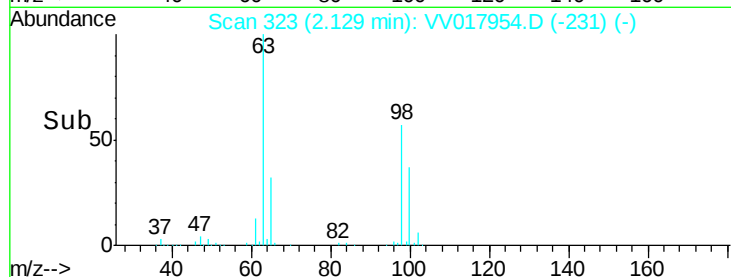
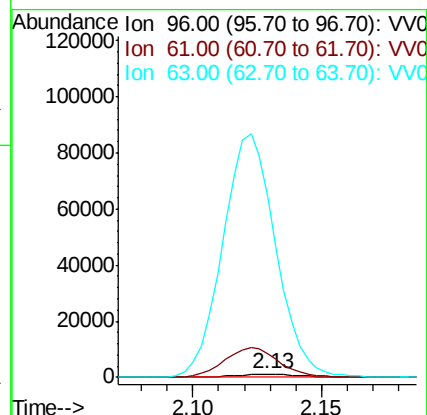
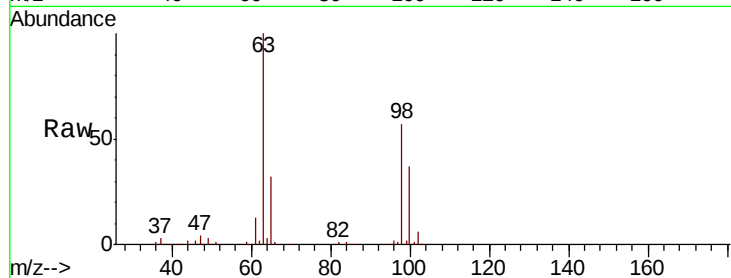
Tot Ion: 96 Resp: 1939

Ion Ratio Lower Upper

96 100

61 761.0 127.1 236.0#

63 5745.1 95.2 176.8#



#17

trans-1,2-Dichloroethene

Concen: 8.233 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

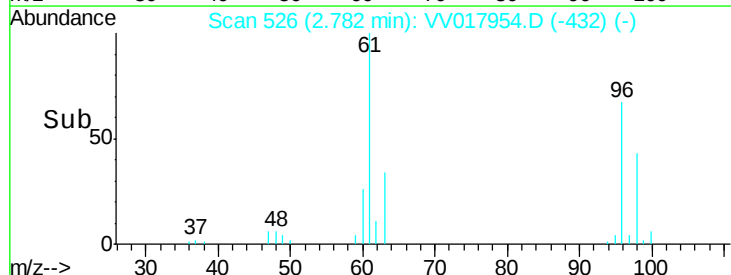
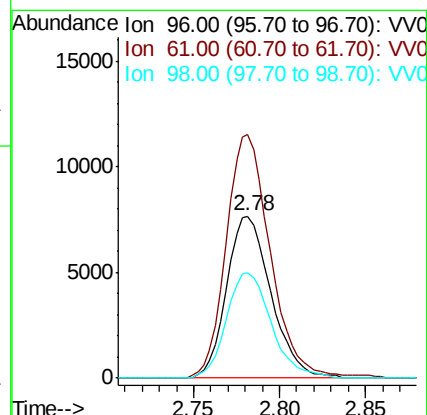
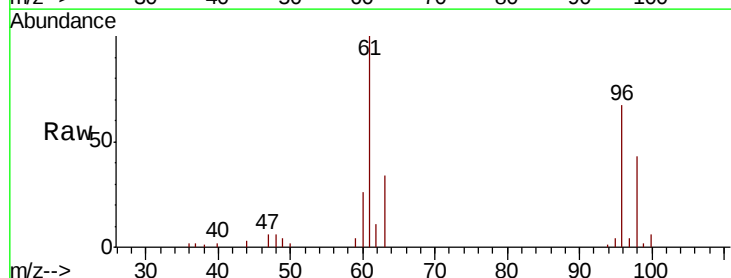
Tgt Ion: 96 Resp: 13766

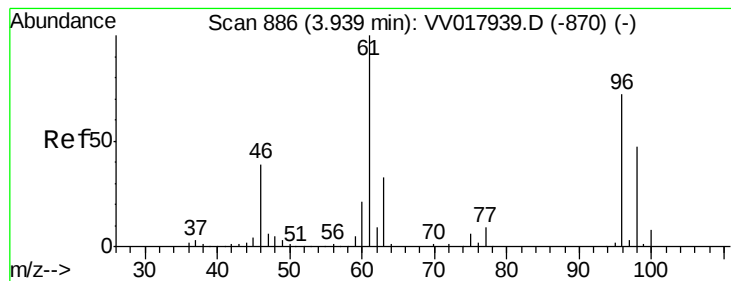
Ion Ratio Lower Upper

96 100

61 150.2 102.4 190.2

98 64.9 44.4 82.5





#20

cis-1,2-Dichloroethene

Concen: 504.440 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :

MSVOA\_V

ClientSampleId :

F2M14

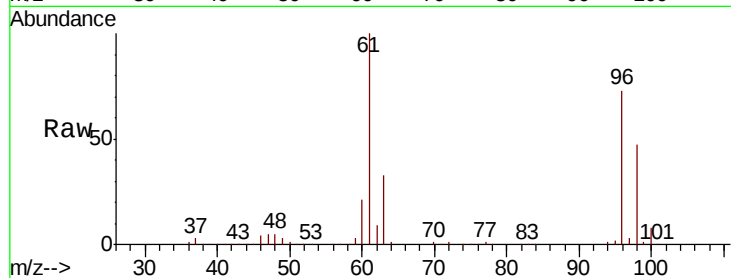
Tot Ion: 96 Resp: 926877

Ion Ratio Lower Upper

96 100

61 136.2 95.0 176.4

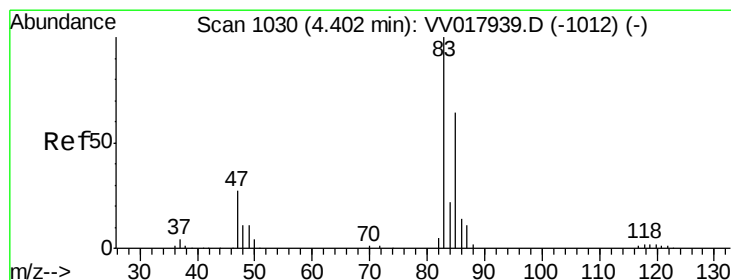
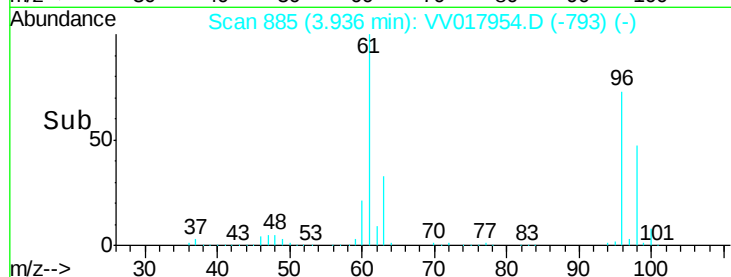
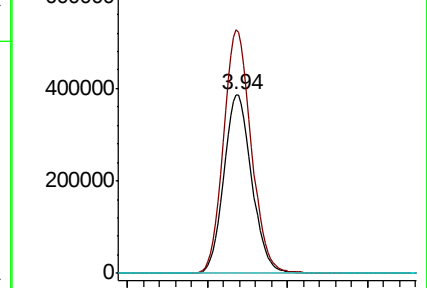
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV017939.D (-870) (-)

Ion 61.00 (60.70 to 61.70): VV017939.D (-870) (-)

Ion 68.00 (67.70 to 68.70): VV017939.D (-870) (-)



#25

Chloroform

Concen: 2.061 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VV017954.D

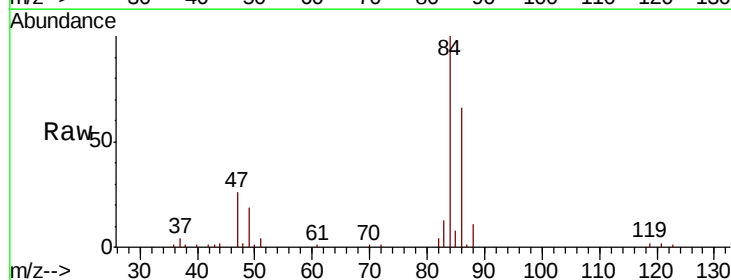
Acq: 13 Aug 2020 02:54

Tgt Ion: 83 Resp: 7069

Ion Ratio Lower Upper

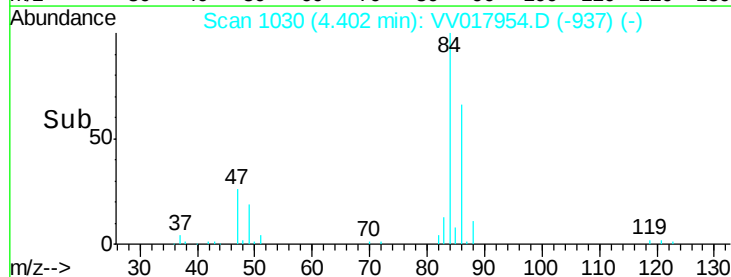
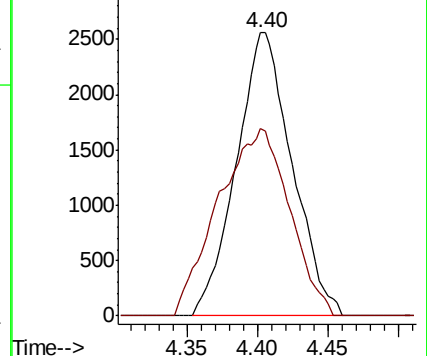
83 100

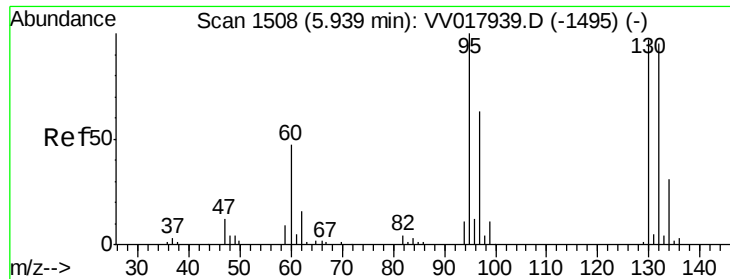
85 66.2 45.5 84.5



Abundance Ion 83.00 (82.70 to 83.70): VV017939.D (-1012) (-)

Ion 85.00 (84.70 to 85.70): VV017939.D (-1012) (-)





#34

Trichloroethene

Concen: 9.814 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :

MSVOA\_V

ClientSampleId :

F2M14

Tot Ion: 95 Resp: 19025

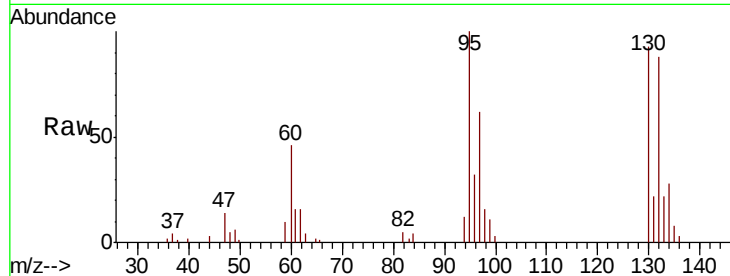
Ion Ratio Lower Upper

95 100

97 62.0 46.0 85.4

132 88.2 65.8 122.2

130 93.1 69.2 128.6

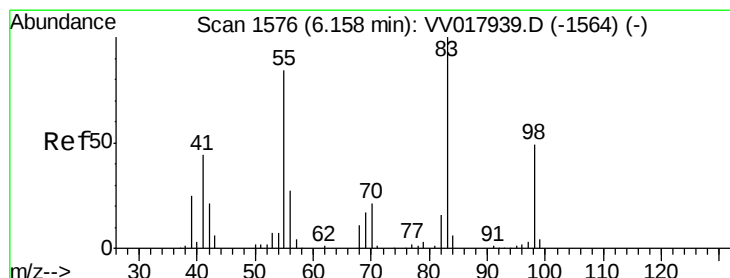
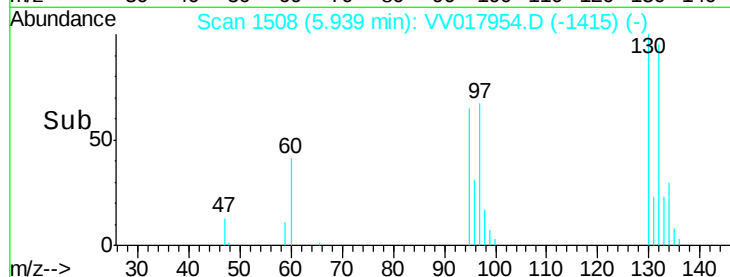
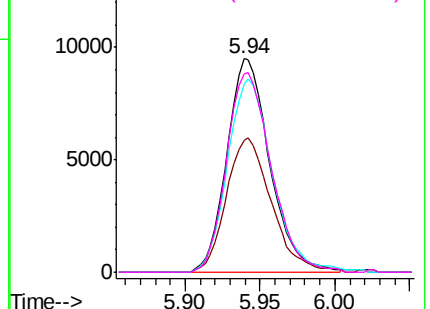


Abundance Ion 95.00 (94.70 to 95.70): VV017939.D (-1495) (-)

Ion 97.00 (96.70 to 97.70): VV017939.D (-1495) (-)

Ion 132.00 (131.70 to 132.70): VV017939.D (-1495) (-)

Ion 130.00 (129.70 to 130.70): VV017939.D (-1495) (-)



#35

Methylcyclohexane

Concen: 8.952 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

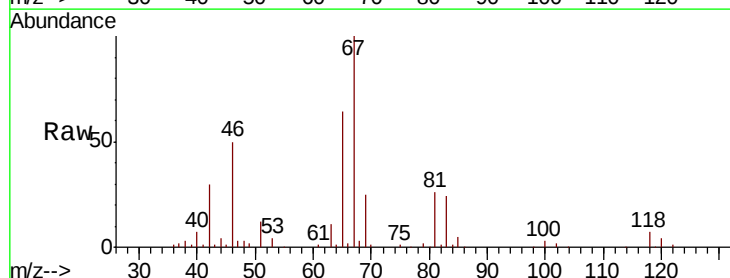
Tgt Ion: 83 Resp: 25803

Ion Ratio Lower Upper

83 100

55 0.2 64.9 97.3#

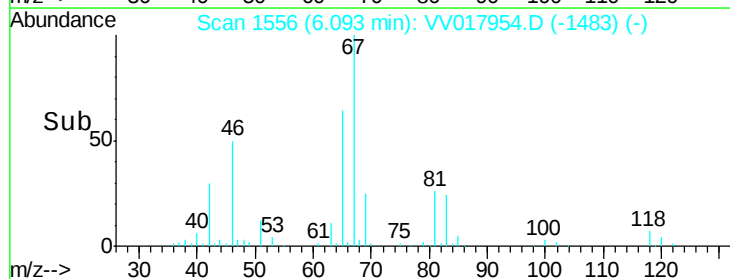
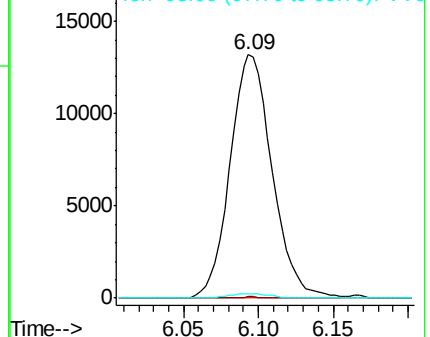
98 1.7 38.7 58.1#

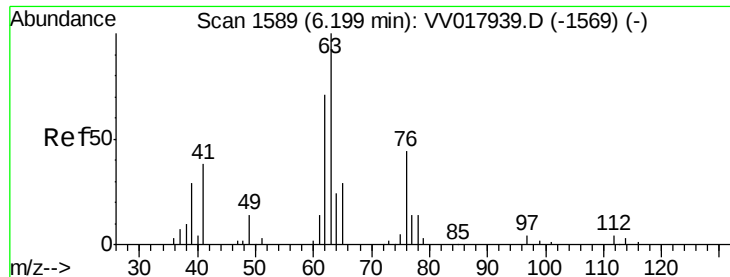


Abundance Ion 83.00 (82.70 to 83.70): VV017939.D (-1564) (-)

Ion 55.00 (54.70 to 55.70): VV017939.D (-1564) (-)

Ion 98.00 (97.70 to 98.70): VV017939.D (-1564) (-)

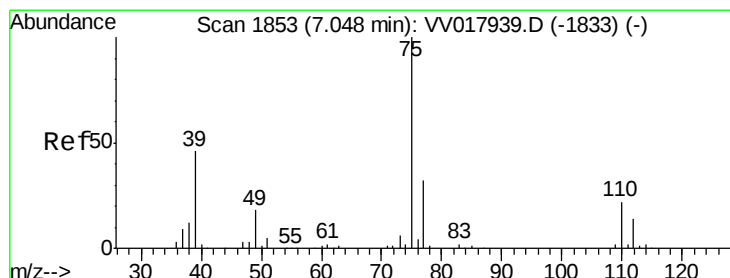
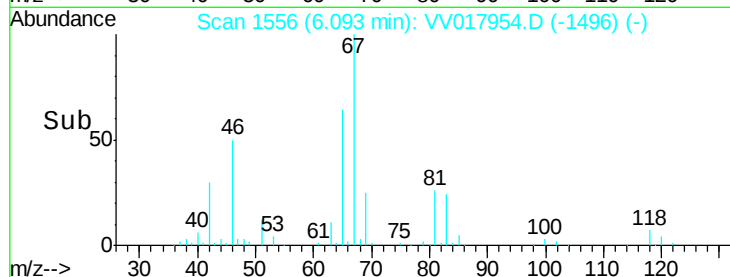
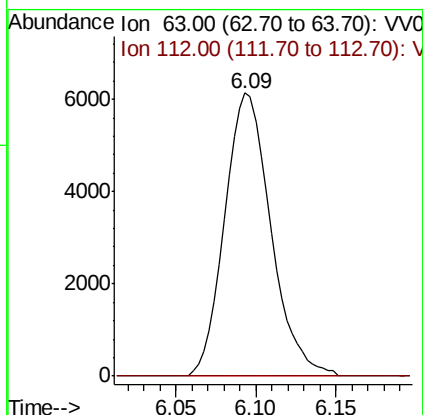
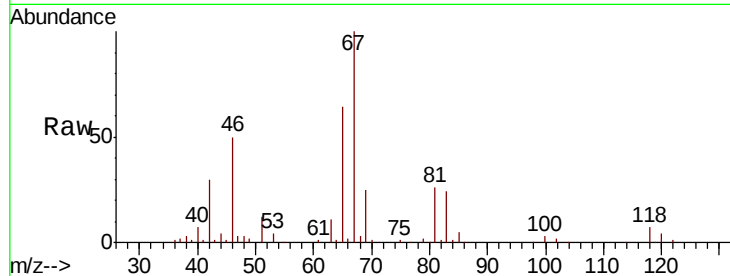




#37  
 1,2-Dichloropropane  
 Concen: 6.056 ug/L  
 RT: 6.09 min Scan# 1556  
 Delta R.T. -0.11 min  
 Lab File: VV017954.D  
 Acq: 13 Aug 2020 02:54

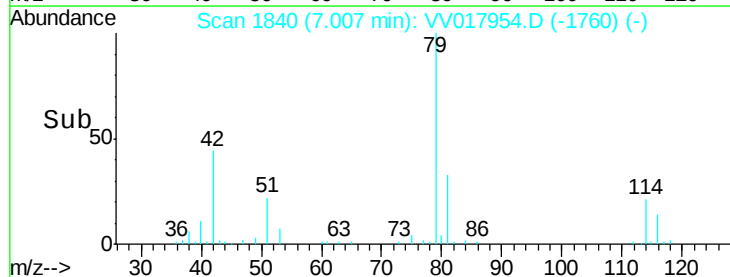
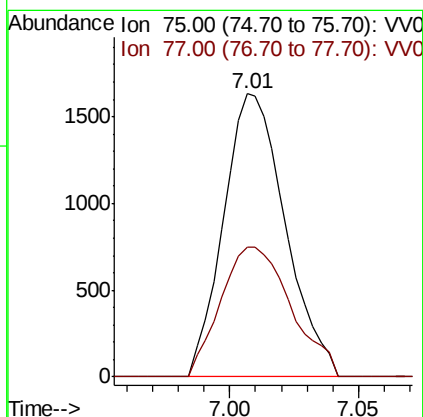
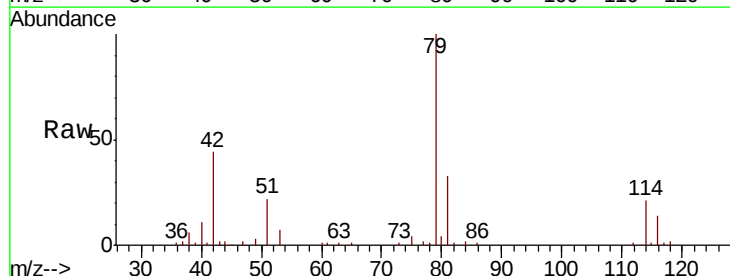
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F2M14

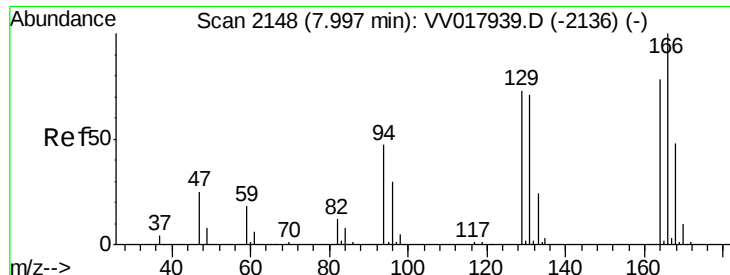
Tot Ion: 63 Resp: 12111  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.960 ug/L  
 RT: 7.01 min Scan# 1840  
 Delta R.T. -0.04 min  
 Lab File: VV017954.D  
 Acq: 13 Aug 2020 02:54

Tgt Ion: 75 Resp: 2722  
 Ion Ratio Lower Upper  
 75 100  
 77 45.8 22.3 41.5#





#46

Tetrachloroethene

Concen: 2.602 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
F2M14

Tot Ion:164 Resp: 3699

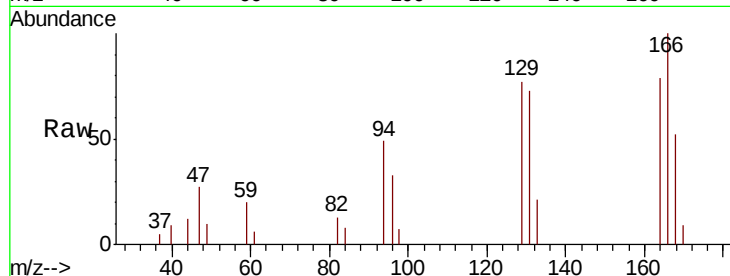
Ion Ratio Lower Upper

164 100

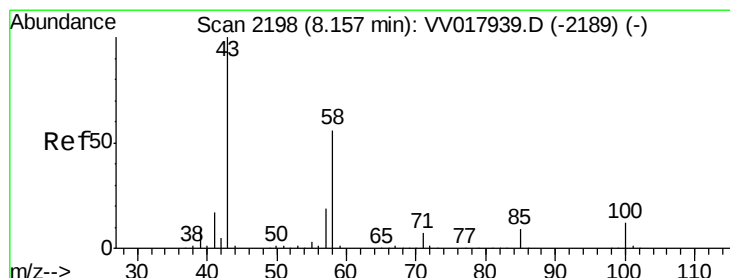
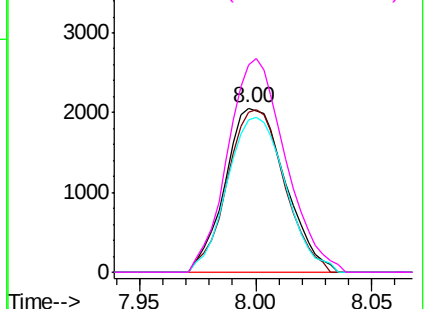
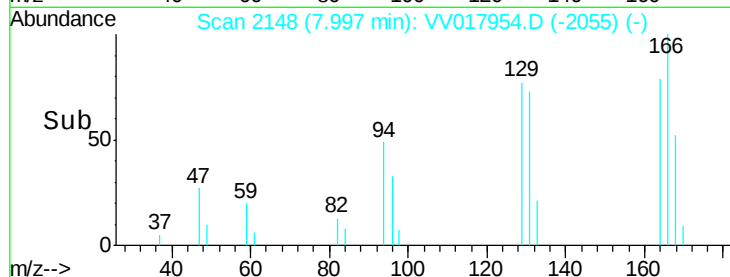
129 97.2 64.8 120.3

131 92.6 64.5 119.9

166 126.2 88.9 165.1



Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 2.317 ug/L

RT: 8.16 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Tgt Ion: 43 Resp: 4885

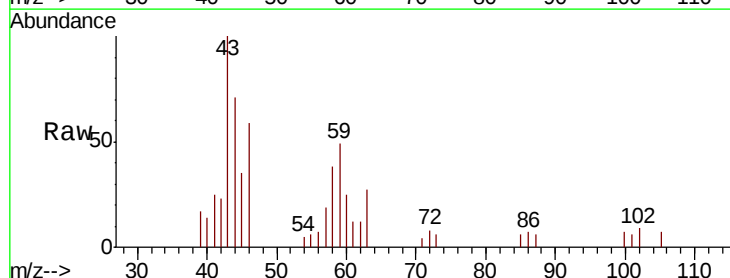
Ion Ratio Lower Upper

43 100

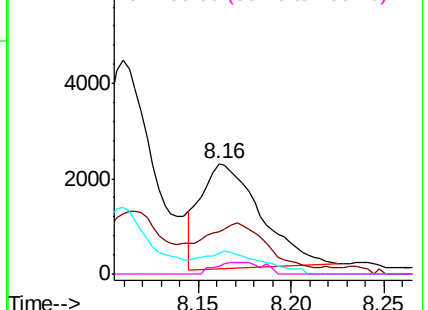
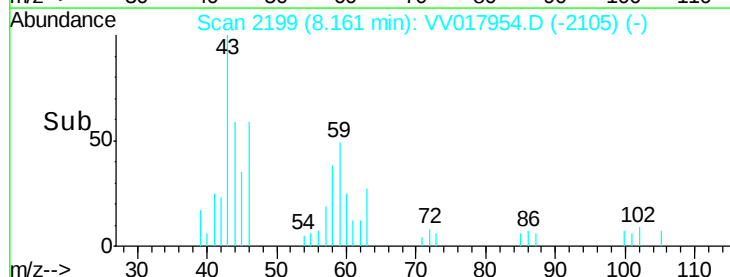
58 50.0 44.4 66.6

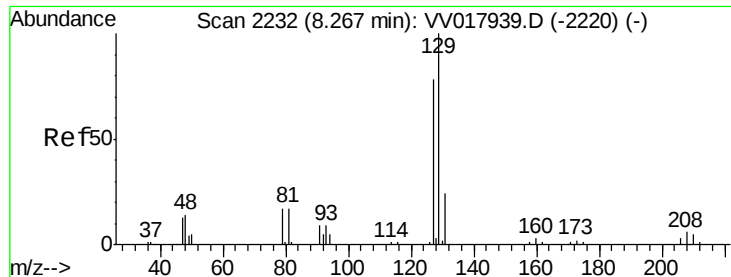
57 12.1 15.2 22.8#

100 7.7 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 1.905 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV017954.D

Acq: 13 Aug 2020 02:54

Instrument :

MSVOA\_V

ClientSampleId :

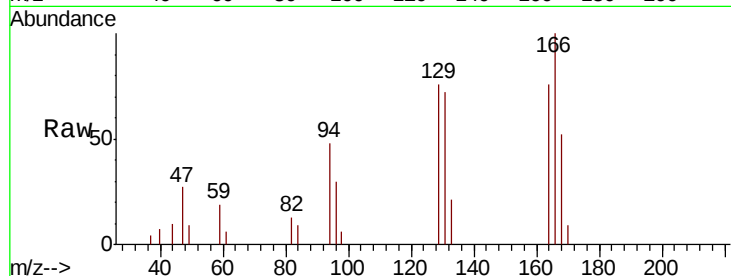
F2M14

Tot Ion:129 Resp: 3444

Ion Ratio Lower Upper

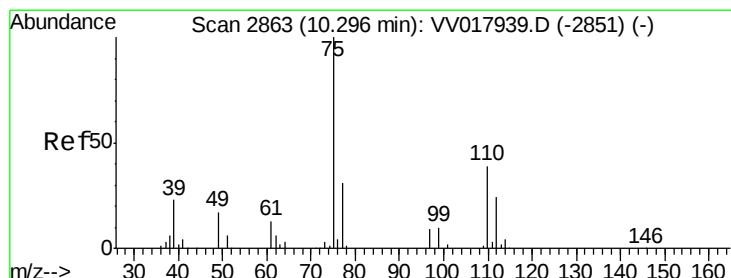
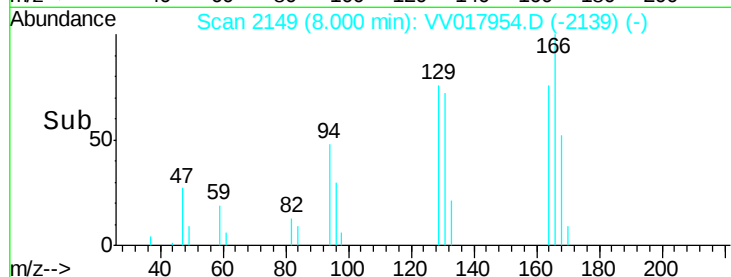
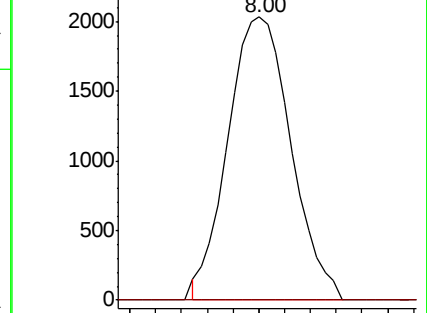
129 100

127 0.0 54.9 101.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 5.356 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.97 min

Lab File: VV017954.D

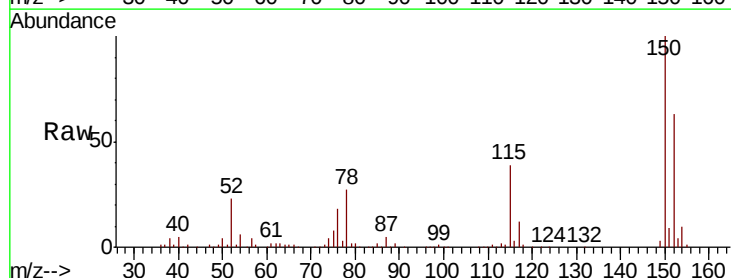
Acq: 13 Aug 2020 02:54

Tgt Ion: 75 Resp: 13228

Ion Ratio Lower Upper

75 100

77 36.9 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

