

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062419\  
 Data File : VV011728.D  
 Acq On : 24 Jun 2019 14:09  
 Operator : SY/MD  
 Sample : K3462-14  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jun 25 08:22:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 25 08:19:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 163658   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 149596   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 64676    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 55563    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 40796    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 106.80% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 85189    | 3.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.20%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 149343   | 52.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.38% |
| 24) Chloroform-d               | 4.40   | 84    | 110209   | 5.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 111.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 63913    | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.40% |
| 32) Benzene-d6                 | 5.09   | 84    | 235016   | 5.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.60% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 71854    | 5.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.80% |
| 41) Toluene-d8                 | 7.35   | 98    | 203975   | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.00% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 22561    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.60% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 113470   | 53.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 47070    | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 68057    | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 111.60% |

## Target Compounds

|                               |      |     |        |              | Ovalue |
|-------------------------------|------|-----|--------|--------------|--------|
| 3) Chloromethane              | 1.25 | 50  | 3738   | 0.242 ug/L   | 89     |
| 12) 1,1-Dichloroethene        | 2.13 | 96  | 1417   | 0.140 ug/L # | 1      |
| 13) Acetone                   | 2.21 | 43  | 4358   | 2.108 ug/L   | 96     |
| 16) Methylene chloride        | 2.53 | 84  | 2583   | 0.229 ug/L   | 98     |
| 22) cis-1,2-Dichloroethene    | 3.95 | 96  | 6816   | 0.521 ug/L   | 92     |
| 25) Chloroform                | 4.42 | 83  | 5157   | 0.198 ug/L   | 88     |
| 29) 1,1,1-Trichloroethane     | 4.64 | 97  | 1685   | 0.087 ug/L # | 85     |
| 34) Trichloroethene           | 5.95 | 95  | 282478 | 21.478 ug/L  | 99     |
| 35) Methylcyclohexane         | 6.11 | 83  | 16935  | 0.798 ug/L # | 14     |
| 37) 1,2-Dichloropropane       | 6.11 | 63  | 9039   | 0.718 ug/L # | 87     |
| 39) cis-1,3-Dichloropropene   | 7.02 | 75  | 2088   | 0.126 ug/L # | 81     |
| 44) trans-1,3-Dichloropropene | 7.67 | 75  | 1217   | 0.099 ug/L # | 82     |
| 47) Tetrachloroethene         | 8.01 | 164 | 1072   | 0.109 ug/L   | 79     |
| 48) 2-Hexanone                | 8.13 | 43  | 16316  | 2.938 ug/L # | 71     |
| 49) Dibromochloromethane      | 8.01 | 129 | 1093   | 0.136 ug/L # | 11     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062419\  
Data File : VV011728.D  
Acq On : 24 Jun 2019 14:09  
Operator : SY/MD  
Sample : K3462-14  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

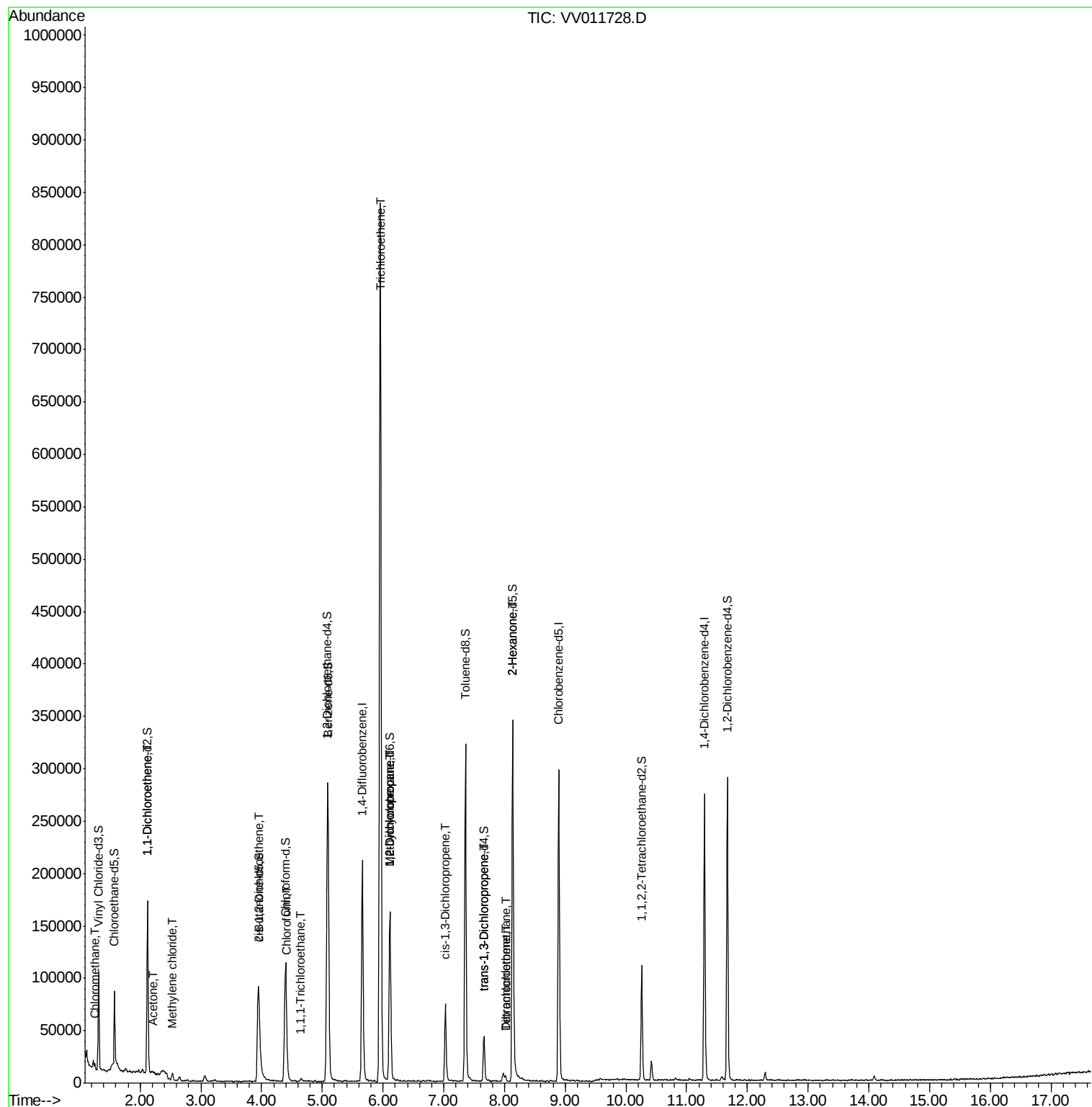
Quant Time: Jun 25 08:22:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 25 08:19:08 2019  
Response via : Initial Calibration

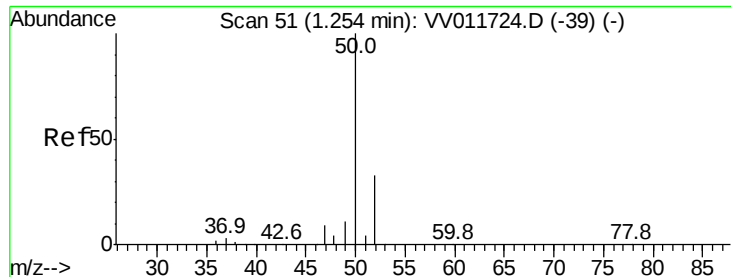
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062419\  
Data File : VV011728.D  
Acq On : 24 Jun 2019 14:09  
Operator : SY/MD  
Sample : K3462-14  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Jun 25 08:22:12 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 25 08:19:08 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.242 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

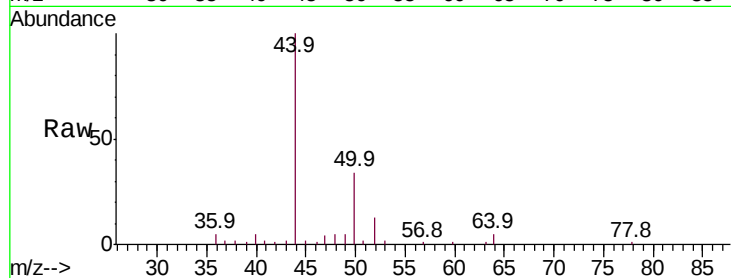
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 50 Resp: 3738

Ion Ratio Lower Upper

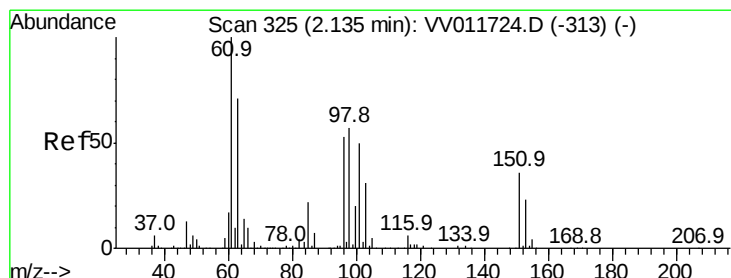
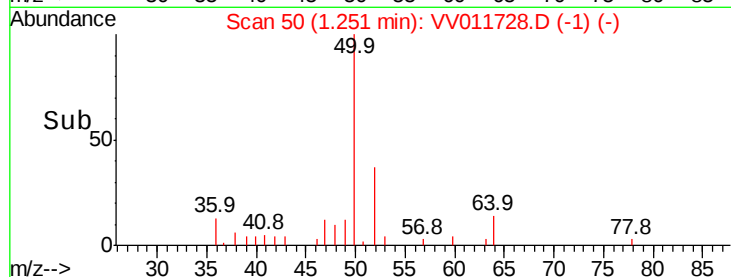
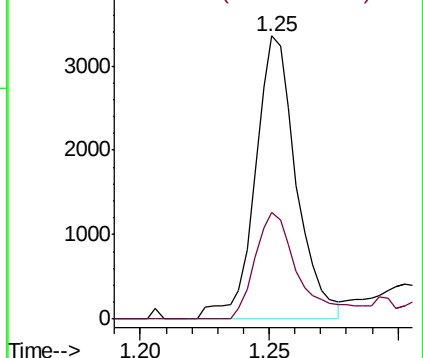
50 100

52 37.5 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#12

1,1-Dichloroethene

Concen: 0.140 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

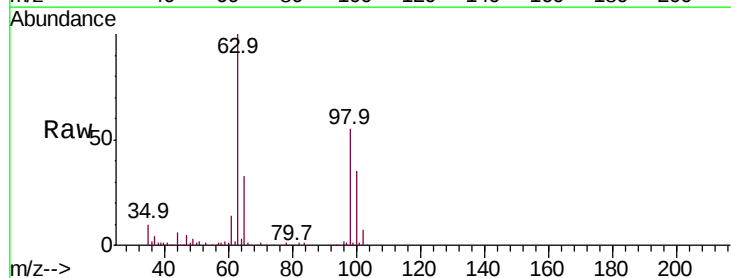
Tgt Ion: 96 Resp: 1417

Ion Ratio Lower Upper

96 100

61 791.3 131.5 244.1#

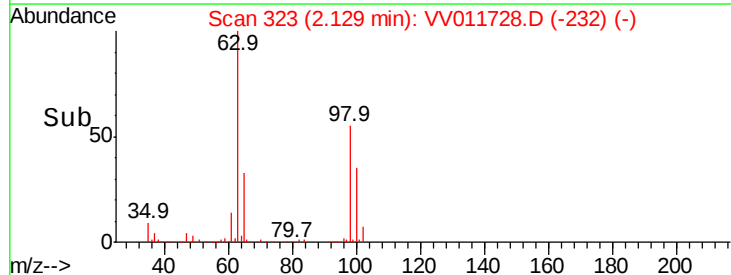
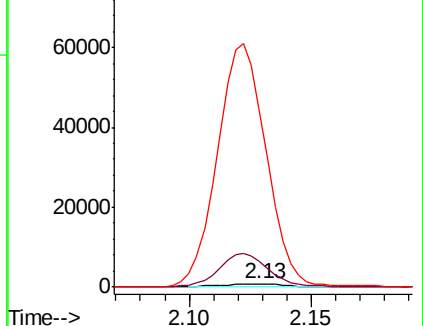
63 5463.1 91.8 170.4#

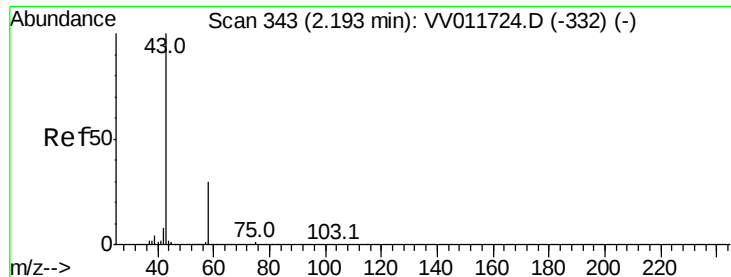


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.108 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

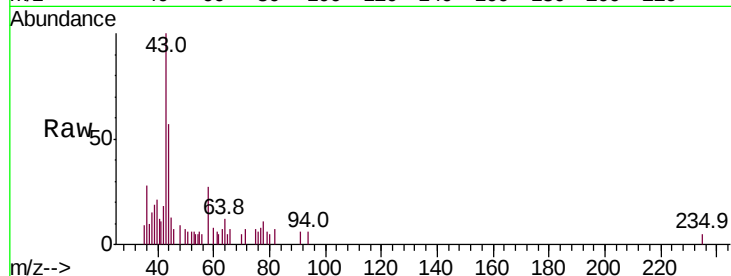
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 4358

Ion Ratio Lower Upper

43 100

58 30.4 0.0 56.6



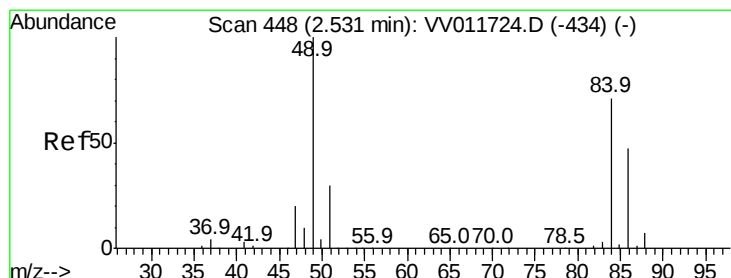
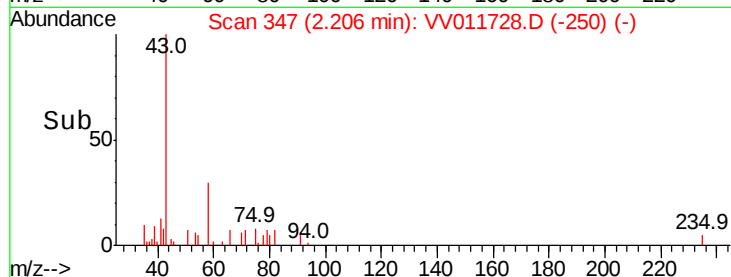
Abundance Ion 43.05 (42.75 to 43.75): VV011728.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV011728.D (-332) (-)

2.21

2.15 2.20 2.25

Time-->



#16

Methylene chloride

Concen: 0.229 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

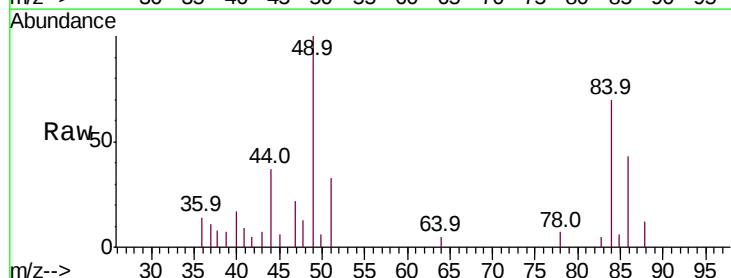
Tgt Ion: 84 Resp: 2583

Ion Ratio Lower Upper

84 100

86 61.6 44.9 83.5

49 142.8 101.4 188.2



Abundance Ion 84.05 (83.75 to 84.75): VV011728.D (-434) (-)

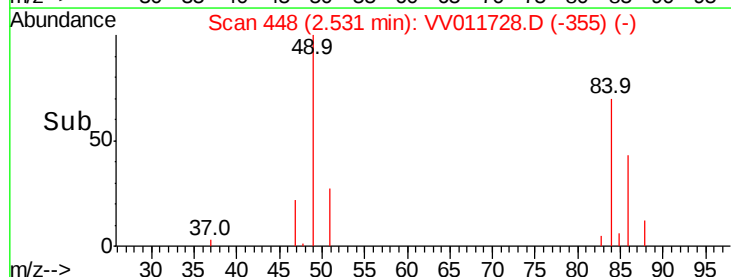
Ion 86.00 (85.70 to 86.70): VV011728.D (-434) (-)

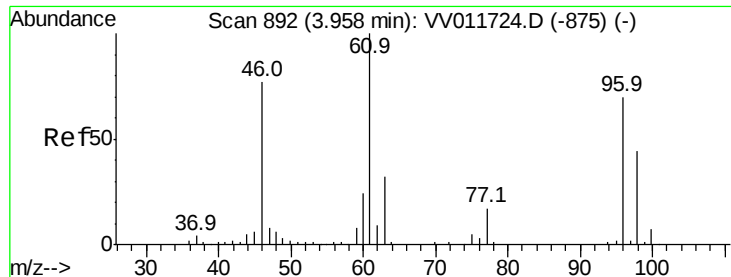
Ion 49.10 (48.80 to 49.80): VV011728.D (-434) (-)

2.53

2.50 2.55

Time-->





#22

cis-1,2-Dichloroethene

Concen: 0.521 ug/L

RT: 3.95 min Scan# 890

Delta R.T. -0.01 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Instrument :  
MSVOA\_V  
ClientSampled :

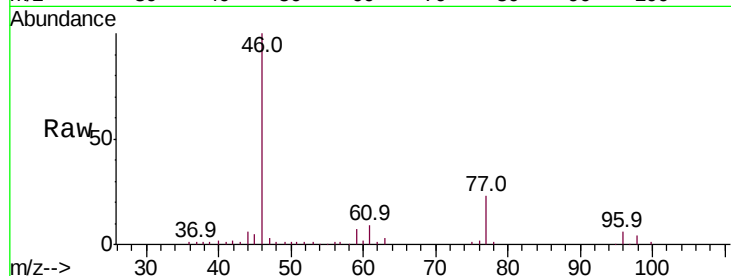
Tot Ion: 96 Resp: 6816

Ion Ratio Lower Upper

96 100

61 150.0 97.9 181.7

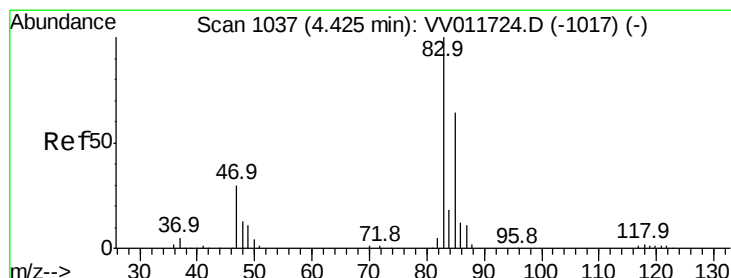
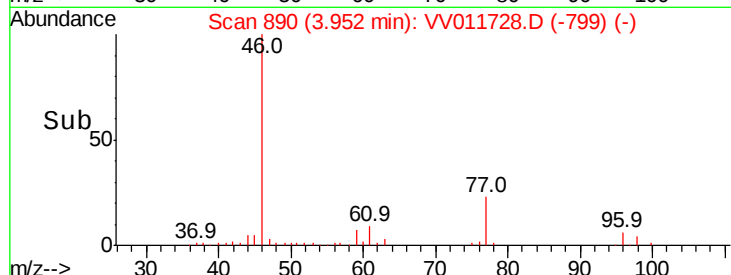
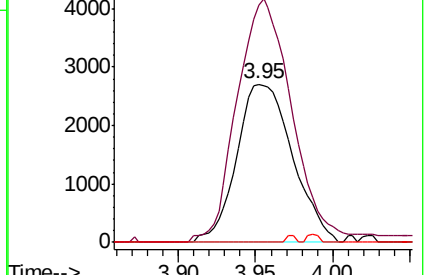
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV011728.D (-875) (-)

Ion 61.05 (60.75 to 61.75): VV011728.D (-875) (-)

Ion 68.15 (67.85 to 68.85): VV011728.D (-875) (-)



#25

Chloroform

Concen: 0.198 ug/L

RT: 4.42 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VV011728.D

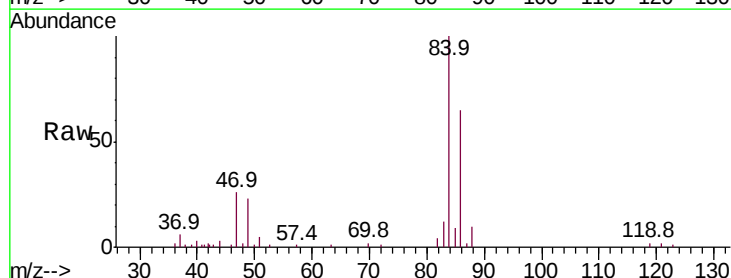
Acq: 24 Jun 2019 14:09

Tgt Ion: 83 Resp: 5157

Ion Ratio Lower Upper

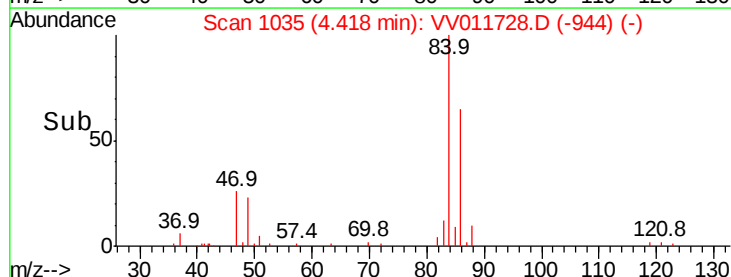
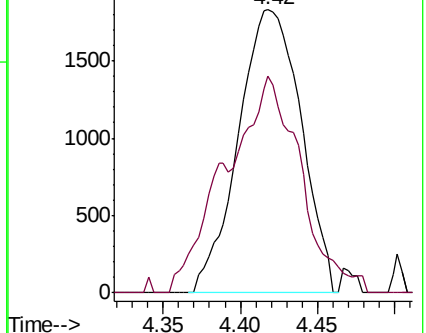
83 100

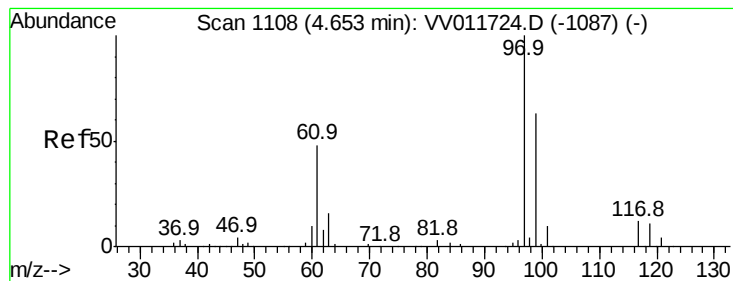
85 76.5 47.0 87.2



Abundance Ion 83.05 (82.75 to 83.75): VV011728.D (-1017) (-)

Ion 85.00 (84.70 to 85.70): VV011728.D (-1017) (-)





#29

1,1,1-Trichloroethane

Concen: 0.087 ug/L

RT: 4.64 min Scan# 1105

Delta R.T. -0.01 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Instrument :  
MSVOA\_V  
ClientSampled :

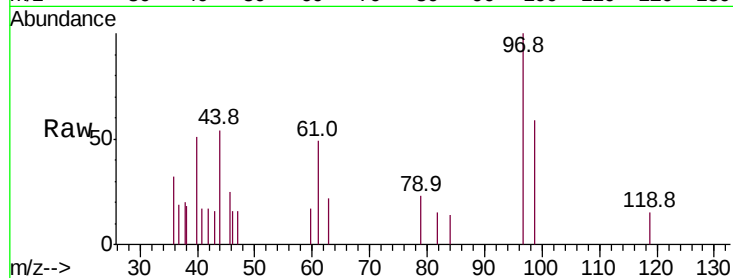
Tot Ion: 97 Resp: 1685

Ion Ratio Lower Upper

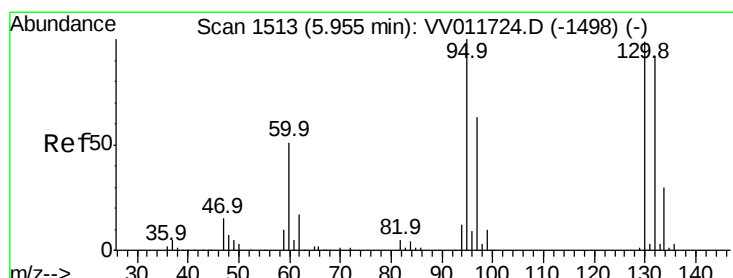
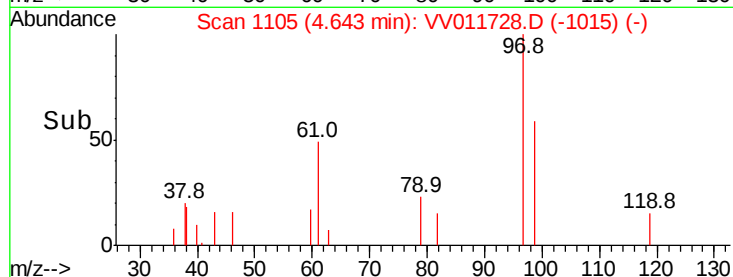
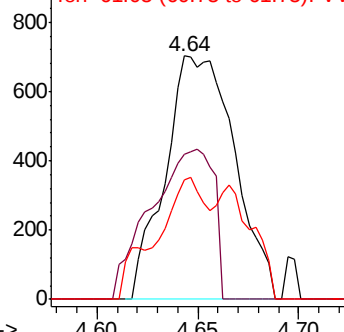
97 100

99 56.0 51.6 77.4

61 36.3 39.8 59.6#



Abundance Ion 96.95 (96.65 to 97.65): VV0  
Ion 99.05 (98.75 to 99.75): VV0  
Ion 61.05 (60.75 to 61.75): VV0



#34

Trichloroethene

Concen: 21.478 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Tgt Ion: 95 Resp: 282478

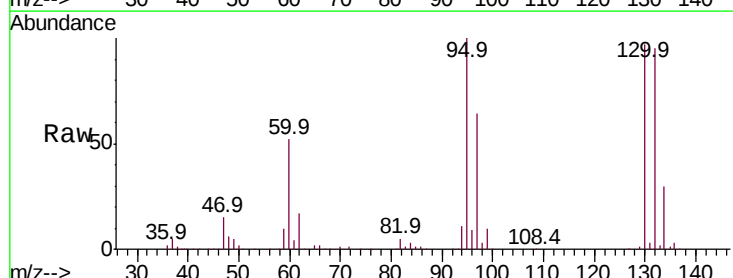
Ion Ratio Lower Upper

95 100

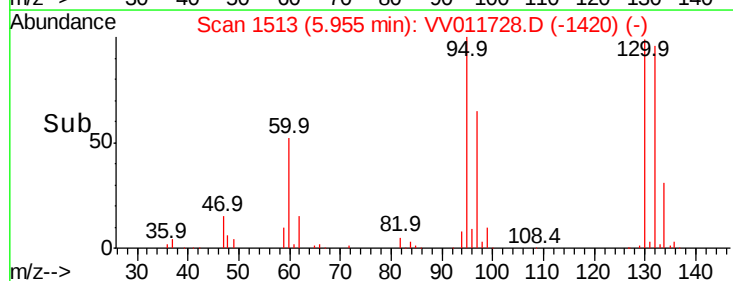
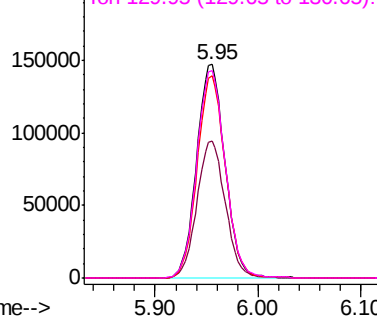
97 64.3 44.4 82.5

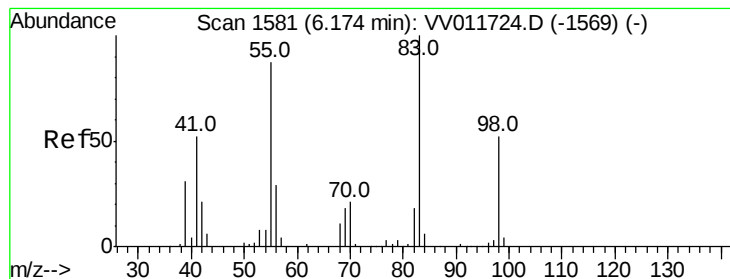
132 94.7 65.0 120.6

130 97.0 67.1 124.7



Abundance Ion 95.00 (94.70 to 95.70): VV0  
Ion 96.95 (96.65 to 97.65): VV0  
Ion 131.95 (131.65 to 132.65): VV0  
Ion 129.95 (129.65 to 130.65): VV0





#35

Methylcyclohexane

Concen: 0.798 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.06 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Instrument :  
MSVOA\_V  
ClientSampled :

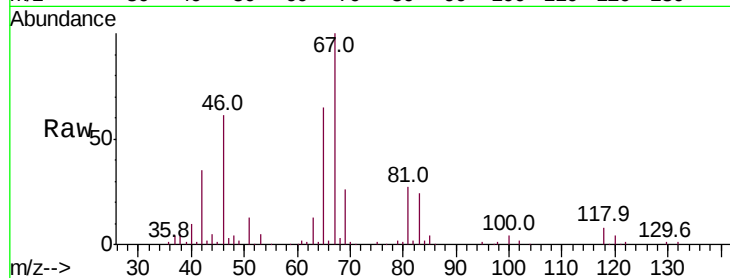
Tot Ion: 83 Resp: 16935

Ion Ratio Lower Upper

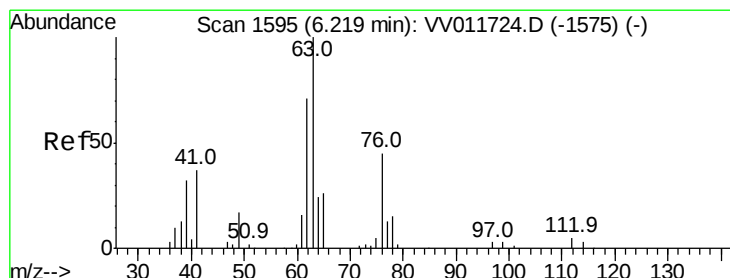
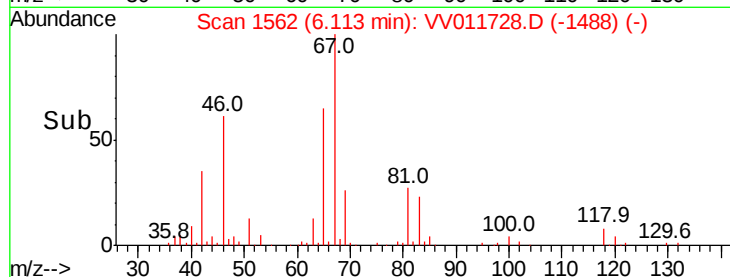
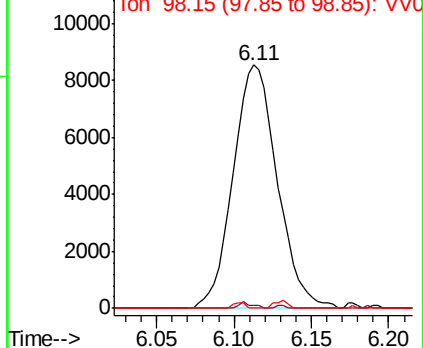
83 100

55 0.8 69.4 104.2#

98 0.0 40.2 60.4#



Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0



#37

1,2-Dichloropropane

Concen: 0.718 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.11 min

Lab File: VV011728.D

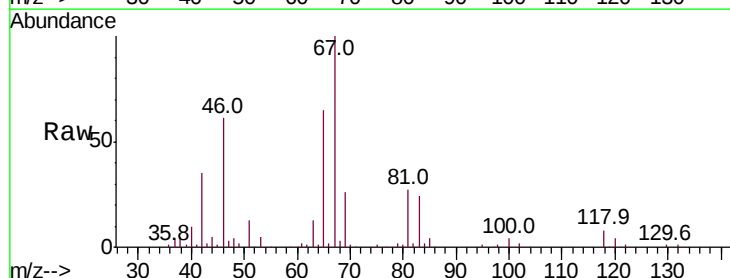
Acq: 24 Jun 2019 14:09

Tgt Ion: 63 Resp: 9039

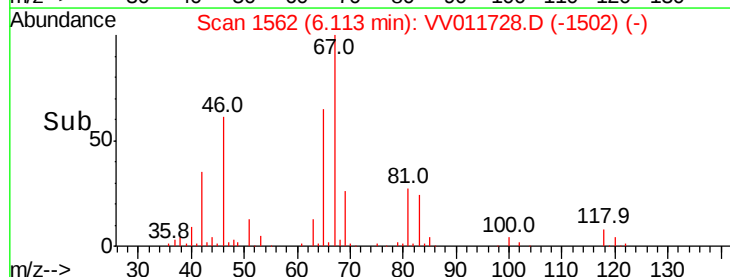
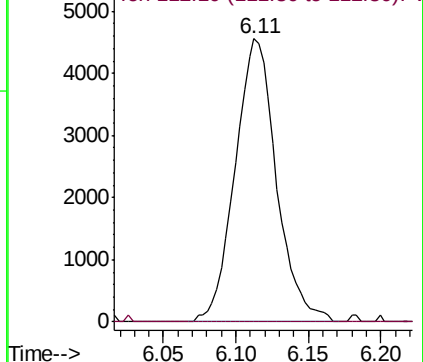
Ion Ratio Lower Upper

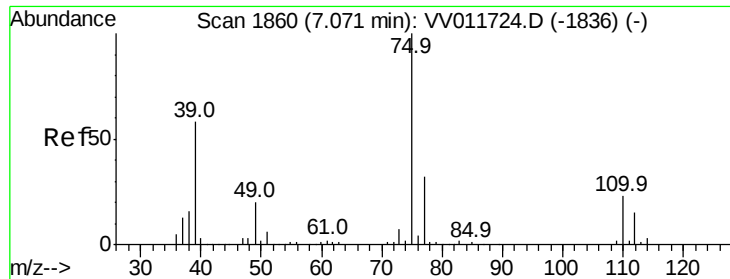
63 100

112 0.0 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 112.10 (111.80 to 112.80): V

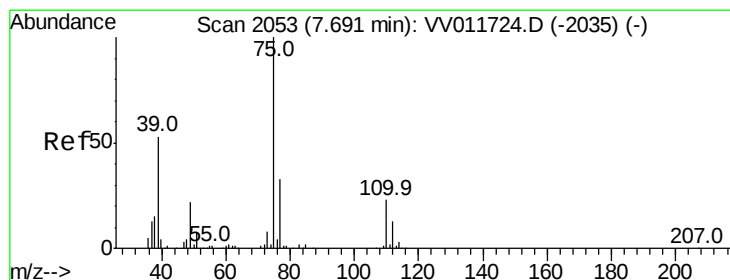
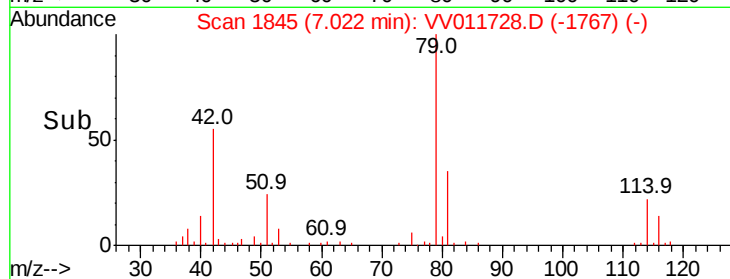
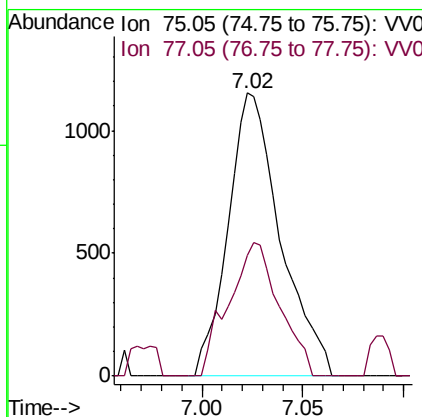
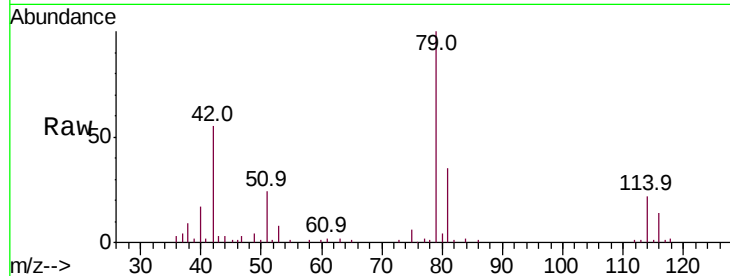




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.126 ug/L  
 RT: 7.02 min Scan# 1845  
 Delta R.T. -0.05 min  
 Lab File: VV011728.D  
 Acq: 24 Jun 2019 14:09

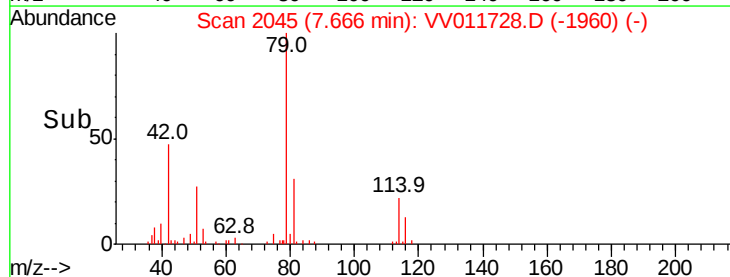
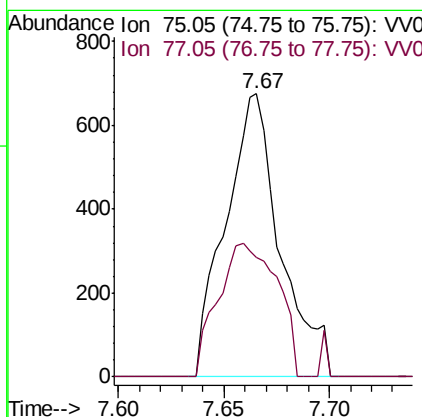
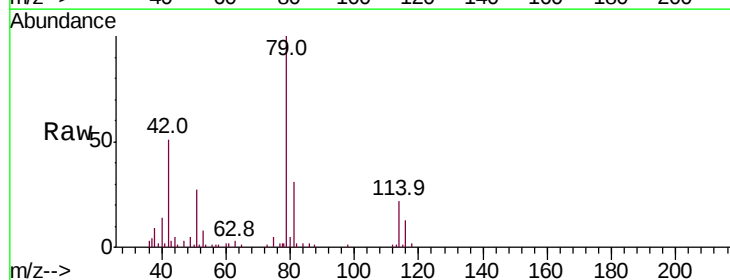
Instrument :  
 MSVOA\_V  
 ClientSampled :

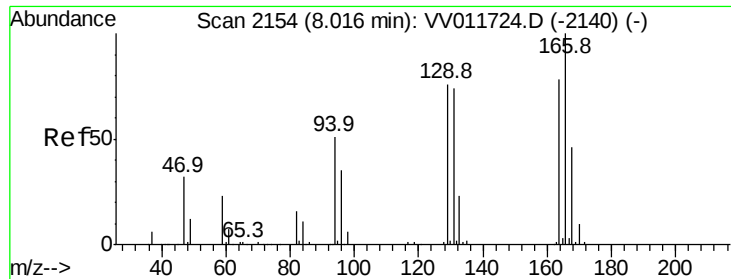
Tot Ion: 75 Resp: 2088  
 Ion Ratio Lower Upper  
 75 100  
 77 42.8 22.4 41.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.099 ug/L  
 RT: 7.67 min Scan# 2045  
 Delta R.T. -0.03 min  
 Lab File: VV011728.D  
 Acq: 24 Jun 2019 14:09

Tgt Ion: 75 Resp: 1217  
 Ion Ratio Lower Upper  
 75 100  
 77 42.2 22.7 42.1#





#47

Tetrachloroethene

Concen: 0.109 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:164 Resp: 1072

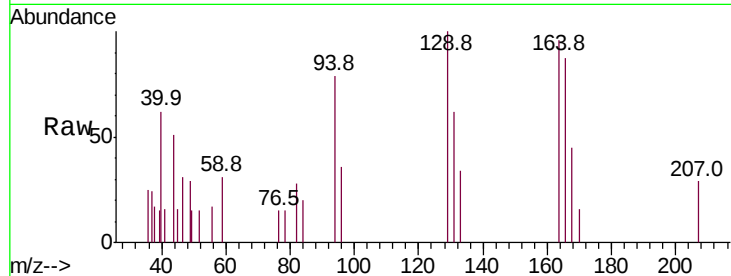
Ion Ratio Lower Upper

164 100

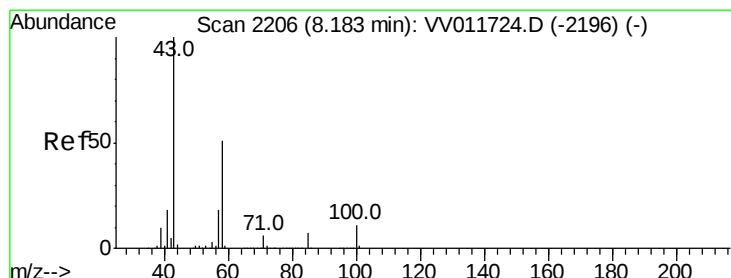
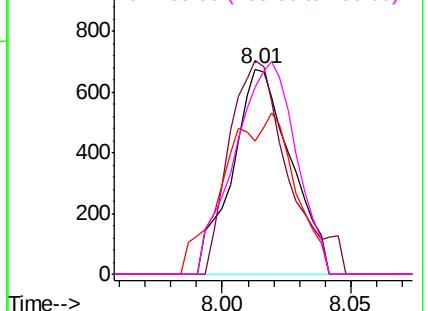
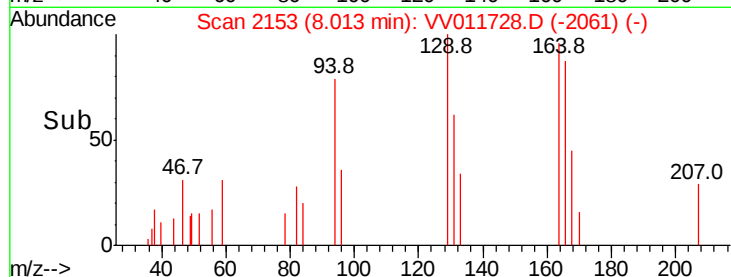
129 104.3 69.7 129.5

131 64.9 64.6 120.0

166 91.0 86.4 160.4



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.938 ug/L

RT: 8.13 min Scan# 2191

Delta R.T. -0.05 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Tgt Ion: 43 Resp: 16316

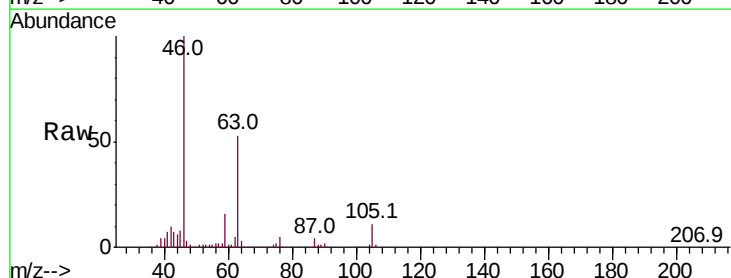
Ion Ratio Lower Upper

43 100

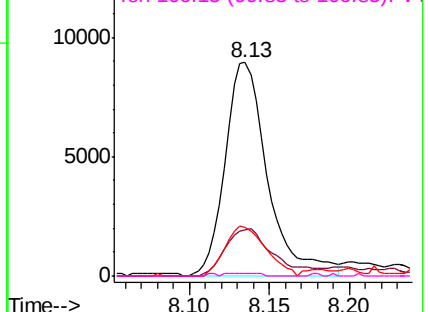
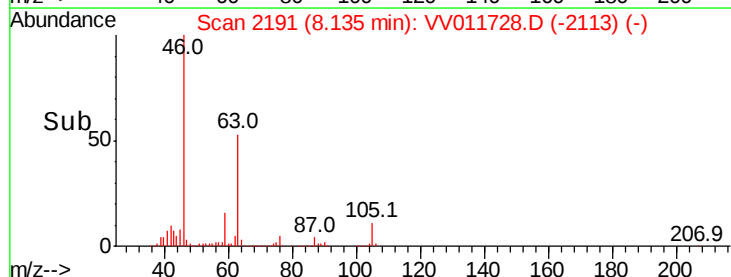
58 25.0 40.1 60.1#

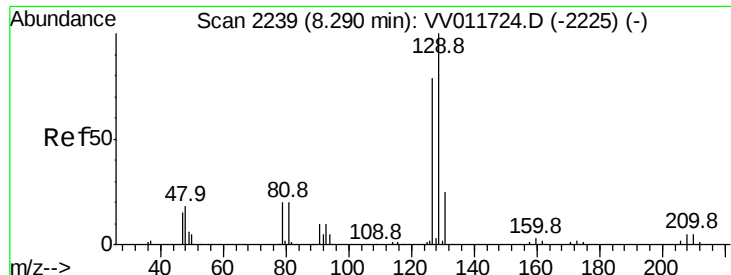
57 22.0 14.4 21.6#

100 1.1 8.6 12.8#



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 0.136 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.28 min

Lab File: VV011728.D

Acq: 24 Jun 2019 14:09

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:129 Resp: 1093

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#

