

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\  
 Data File : VV017040.D  
 Acq On : 23 Jun 2020 00:33  
 Operator : SY/MD  
 Sample : L3067-16  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXH3

Quant Time: Jun 23 07:21:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 23 04:53:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 182254   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 172677   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 86048    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 39389    | 3.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.00%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 30697    | 3.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 77.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 61625    | 2.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 59.20%# |
| 20) 2-Butanone-d5              | 3.98   | 46    | 102323   | 36.70    | ug/L | 0.04    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 73.40%  |
| 24) Chloroform-d               | 4.38   | 84    | 103198   | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 56309    | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.80%  |
| 32) Benzene-d6                 | 5.07   | 84    | 203852   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 59738    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.00%  |
| 41) Toluene-d8                 | 7.33   | 98    | 185298   | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.20%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 22051    | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.00%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 79864    | 37.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 75.04%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 40104    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.00%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 76368    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00%  |

## Target Compounds

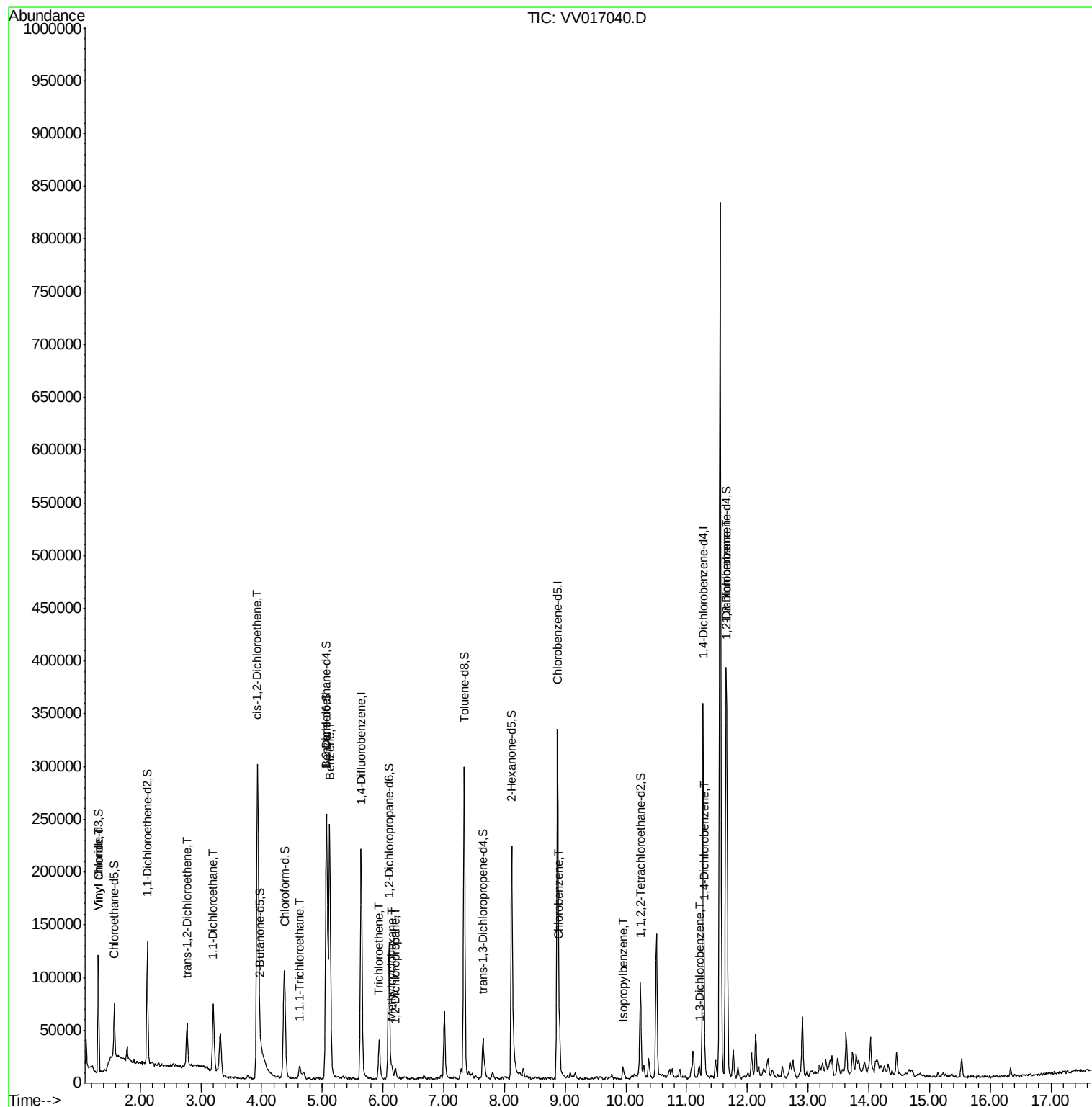
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.32  | 62   | 27980    | 2.340  | ug/L   | 95     |
| 18) trans-1,2-Dichloroethene | 2.77  | 96   | 15787    | 1.703  | ug/L   | 94     |
| 19) 1,1-Dichloroethane       | 3.20  | 63   | 61455    | 2.951  | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene   | 3.93  | 96   | 162696   | 12.836 | ug/L   | 99     |
| 29) 1,1,1-Trichloroethane    | 4.63  | 97   | 8695     | 0.420  | ug/L   | 91     |
| 33) Benzene                  | 5.12  | 78   | 237932   | 5.261  | ug/L   | 100    |
| 34) Trichloroethene          | 5.94  | 95   | 12272    | 0.927  | ug/L   | 94     |
| 35) Methylcyclohexane        | 6.14  | 83   | 2884     | 0.140  | ug/L # | 82     |
| 37) 1,2-Dichloropropane      | 6.21  | 63   | 3833     | 0.342  | ug/L   | 98     |
| 53) Chlorobenzene            | 8.90  | 112  | 25655    | 0.783  | ug/L   | 91     |
| 58) Isopropylbenzene         | 9.95  | 105  | 6076     | 0.107  | ug/L # | 86     |
| 63) 1,3-Dichlorobenzene      | 11.21 | 146  | 3698     | 0.143  | ug/L   | 97     |
| 64) 1,4-Dichlorobenzene      | 11.30 | 146  | 7431     | 0.282  | ug/L   | 98     |
| 66) 1,2-Dichlorobenzene      | 11.67 | 146  | 81891    | 3.483  | ug/L   | 98     |

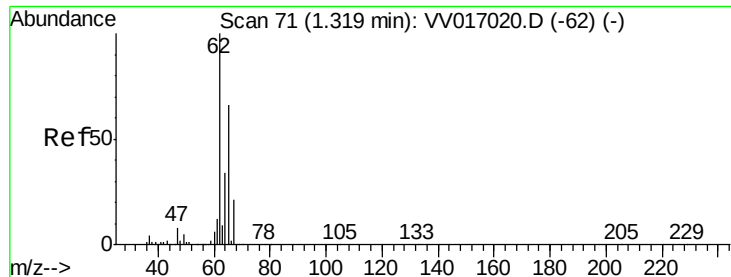
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062320\  
Data File : VV017040.D  
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Operator : SY/MD  
Sample : L3067-16  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 22 Sample Multiplier: 1

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MSVOA\_V  
ClientSampleId :  
BFXH3

Quant Time: Jun 23 07:21:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 23 04:53:49 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.340 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA\_V

ClientSampled :

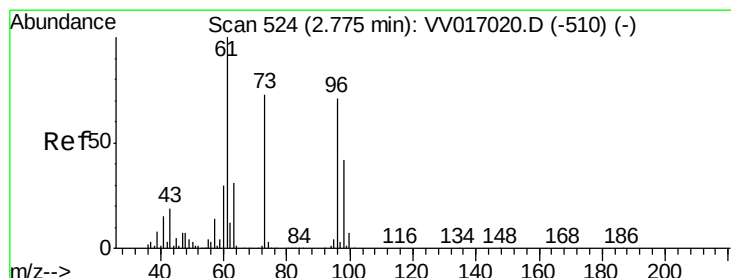
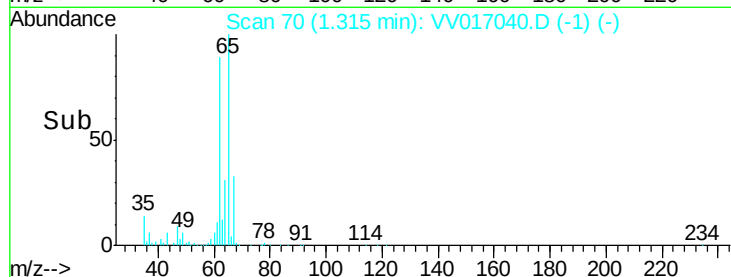
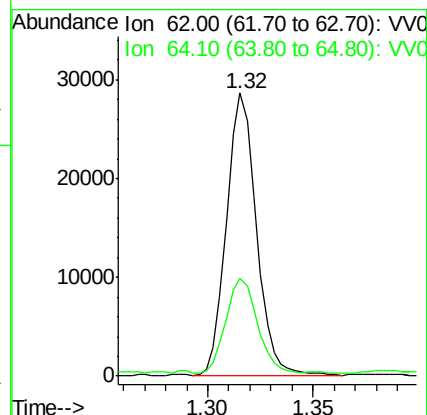
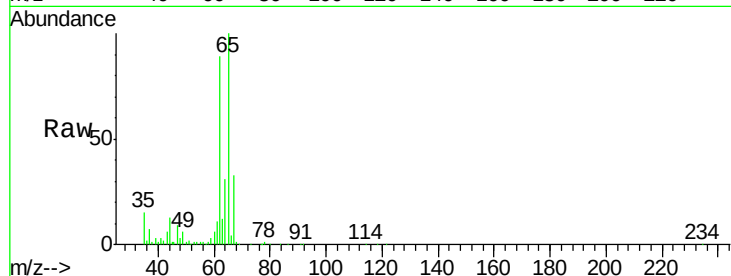
BFXH3

Tot Ion: 62 Resp: 27980

Ion Ratio Lower Upper

62 100

64 34.7 22.5 41.7



#18

trans-1,2-Dichloroethene

Concen: 1.703 ug/L

RT: 2.77 min Scan# 522

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

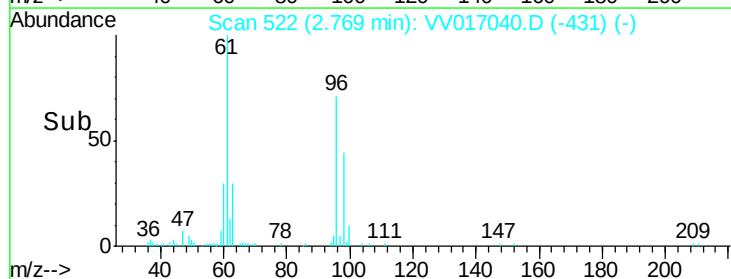
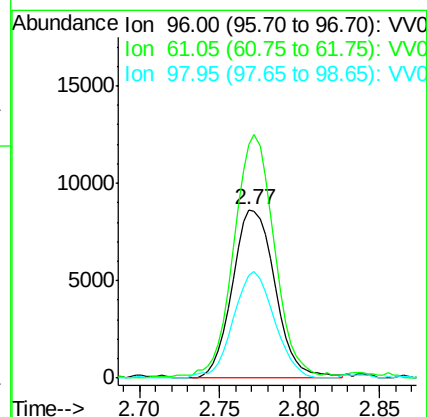
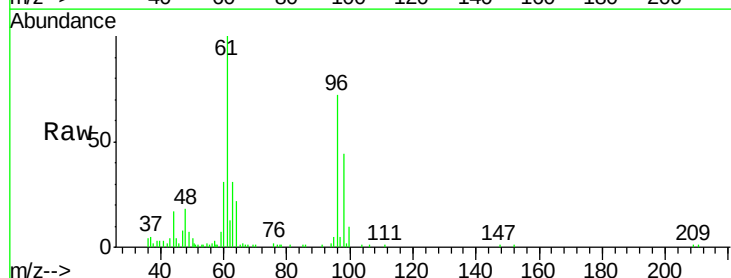
Tgt Ion: 96 Resp: 15787

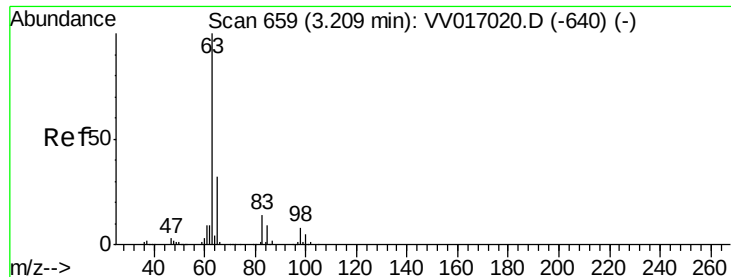
Ion Ratio Lower Upper

96 100

61 138.4 102.3 189.9

98 60.7 44.7 82.9

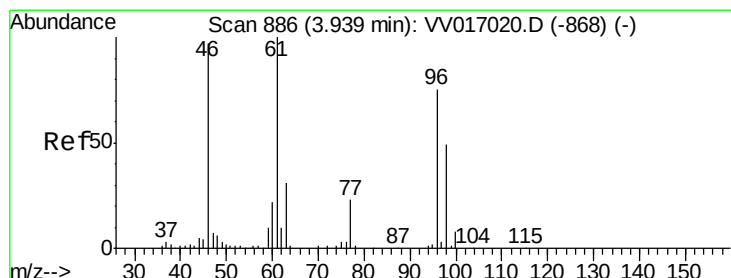
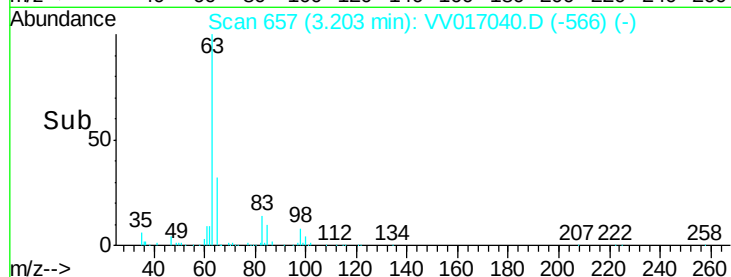
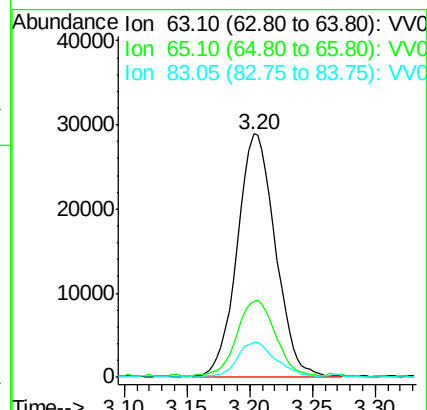
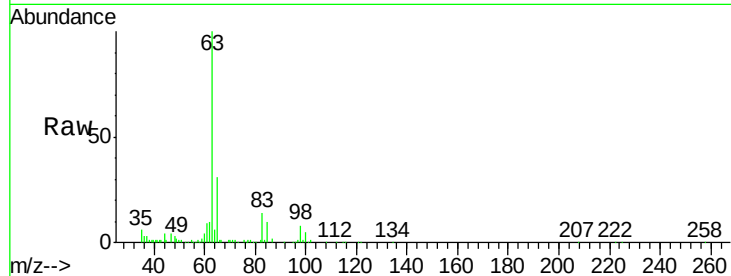




#19  
 1,1-Dichloroethane  
 Concen: 2.951 ug/L  
 RT: 3.20 min Scan# 657  
 Delta R.T. -0.01 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

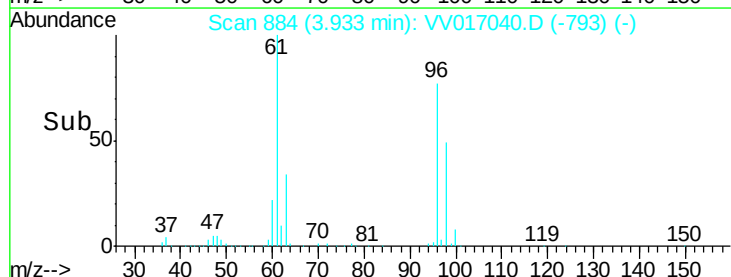
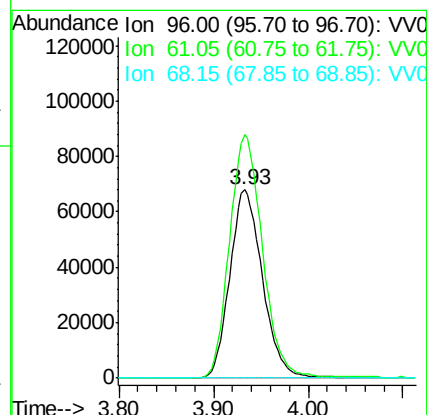
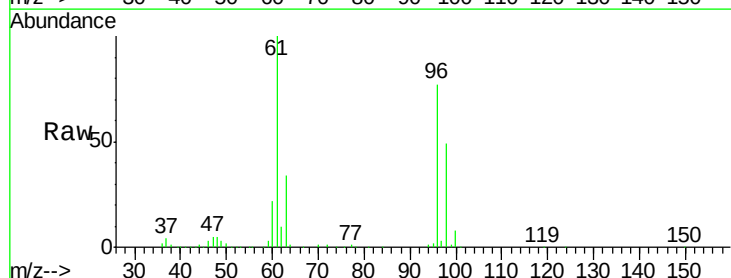
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXH3

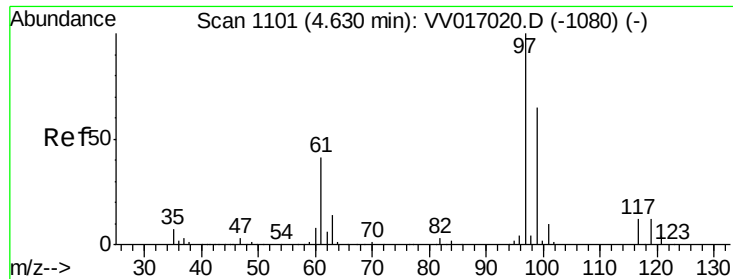
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 61455 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 31.4  | 21.8  | 40.4  |
| 83       | 14.2  | 9.7   | 17.9  |



#22  
 cis-1,2-Dichloroethene  
 Concen: 12.836 ug/L  
 RT: 3.93 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 162696 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 129.1 | 91.0  | 169.0  |
| 68       | 0.0   | 0.0   | 0.0    |

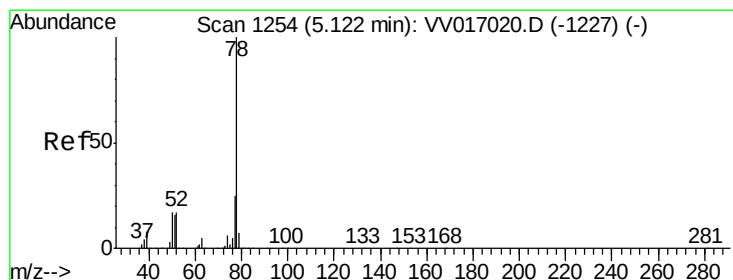
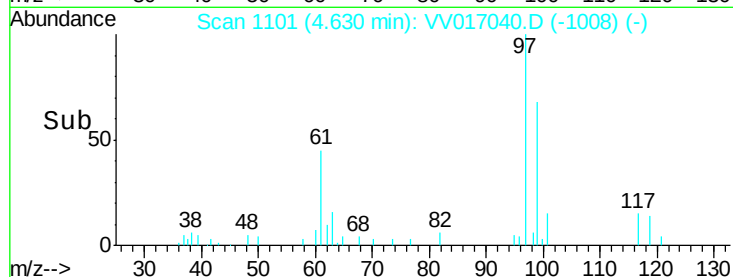
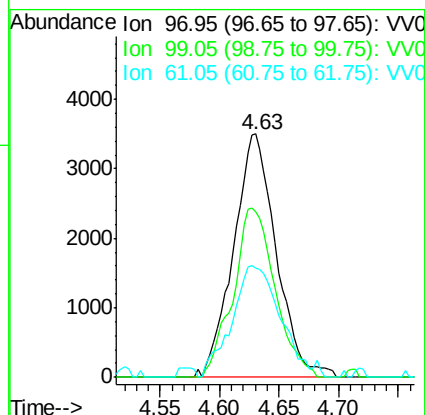
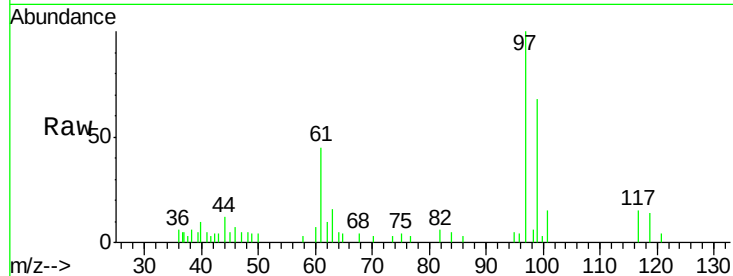




#29  
 1,1,1-Trichloroethane  
 Concen: 0.420 ug/L  
 RT: 4.63 min Scan# 1101  
 Delta R.T. -0.00 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

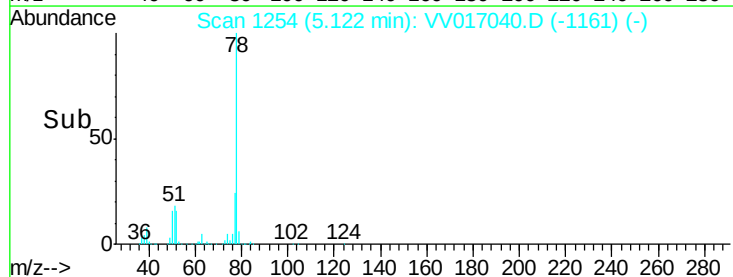
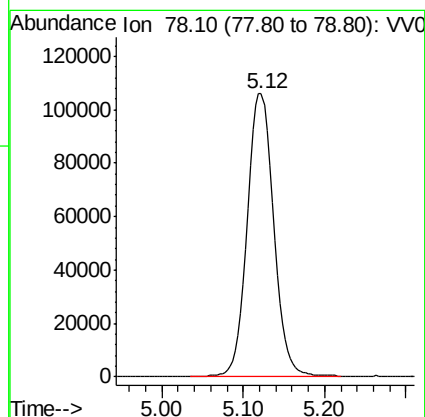
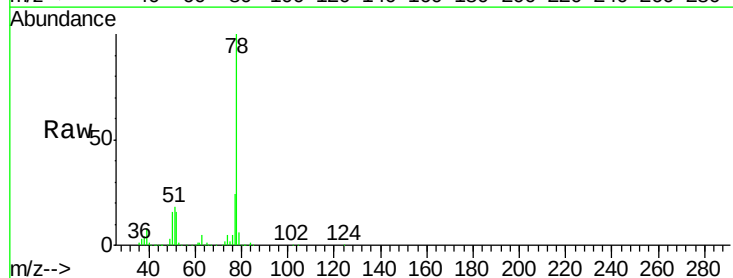
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXH3

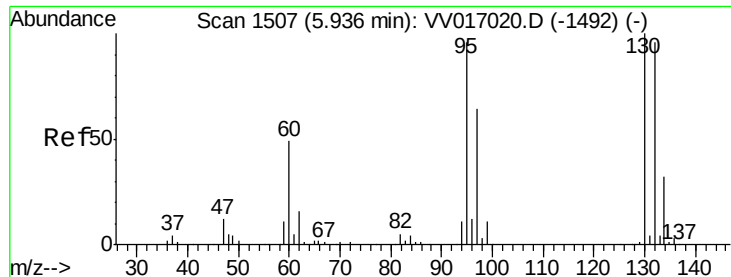
Tot Ion: 97 Resp: 8695  
 Ion Ratio Lower Upper  
 97 100  
 99 68.4 50.3 75.5  
 61 52.7 36.0 54.0



#33  
 Benzene  
 Concen: 5.261 ug/L  
 RT: 5.12 min Scan# 1254  
 Delta R.T. -0.00 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

Tgt Ion: 78 Resp: 237932





#34

Trichloroethene

Concen: 0.927 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA\_V

ClientSampleId :

BFXH3

Tot Ion: 95 Resp: 12272

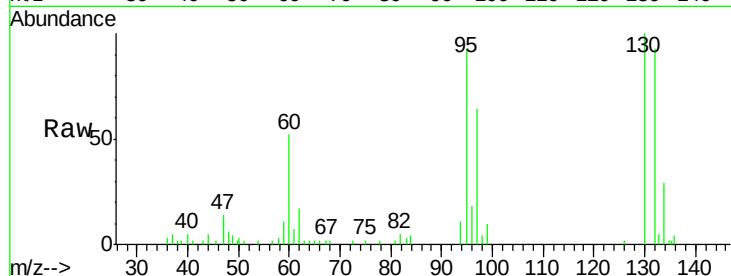
Ion Ratio Lower Upper

95 100

97 69.8 45.3 84.1

132 101.7 68.8 127.8

130 108.9 70.2 130.4

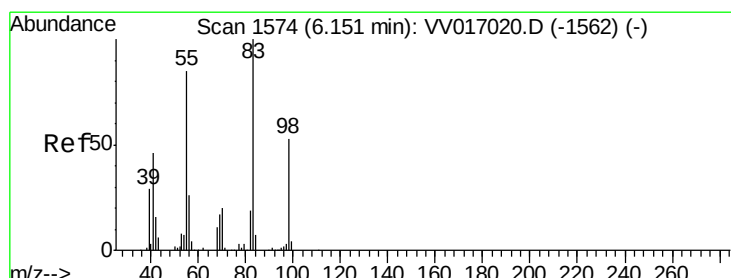
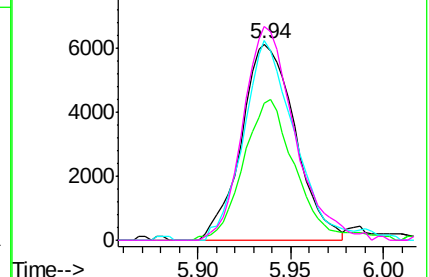
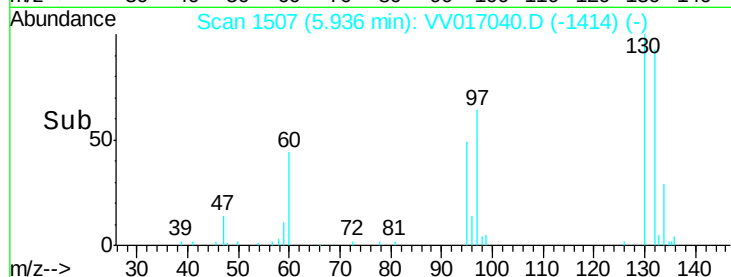


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.140 ug/L

RT: 6.14 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

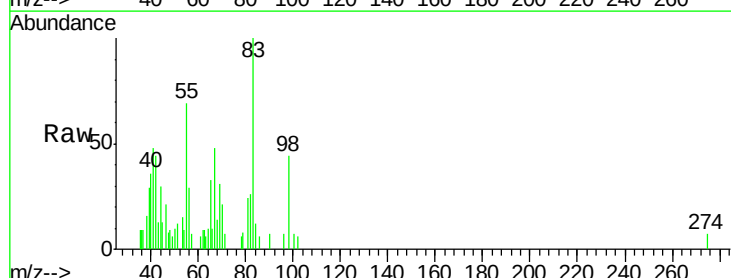
Tgt Ion: 83 Resp: 2884

Ion Ratio Lower Upper

83 100

55 101.9 63.6 95.4#

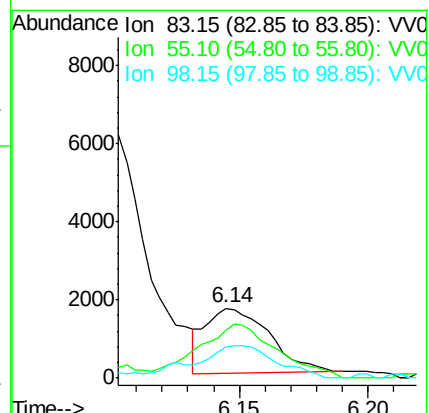
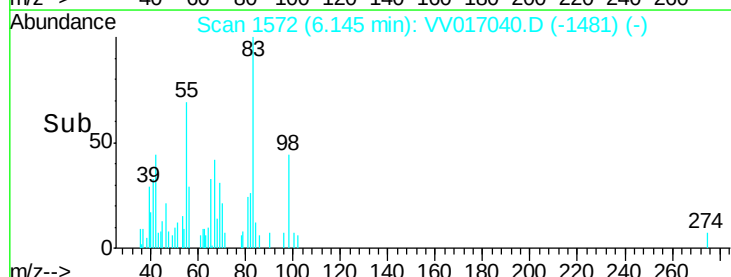
98 53.2 38.8 58.2

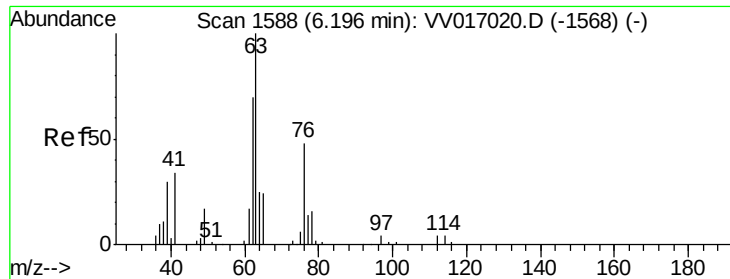


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

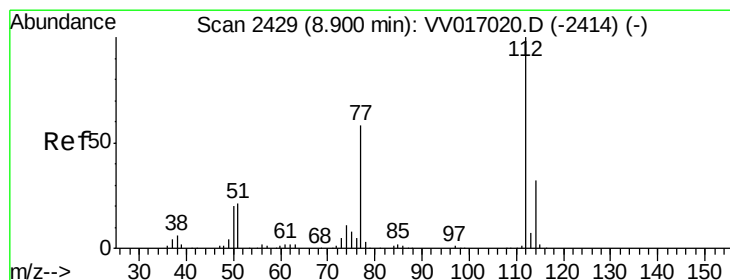
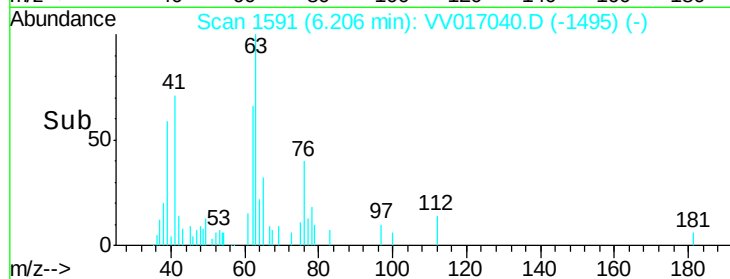
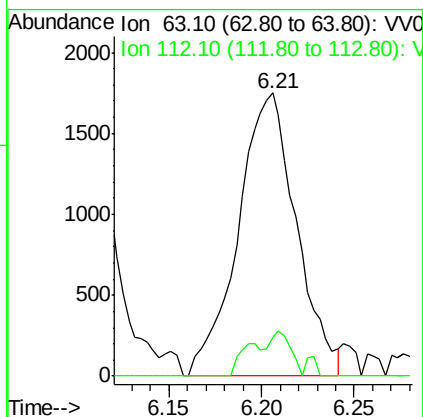
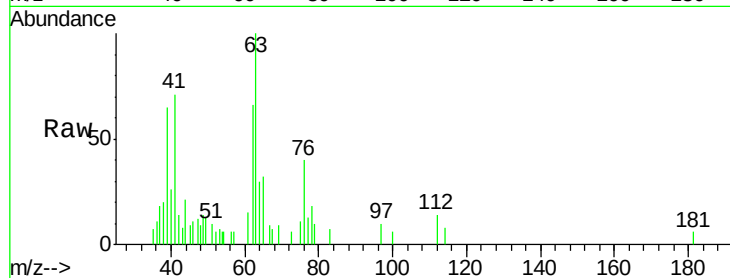




#37  
 1,2-Dichloropropane  
 Concen: 0.342 ug/L  
 RT: 6.21 min Scan# 1591  
 Delta R.T. 0.01 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

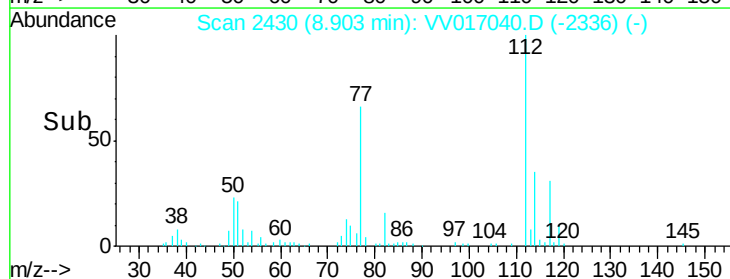
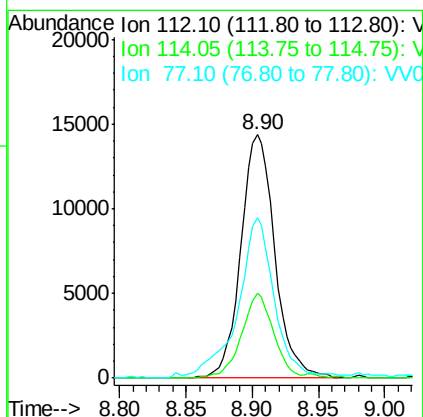
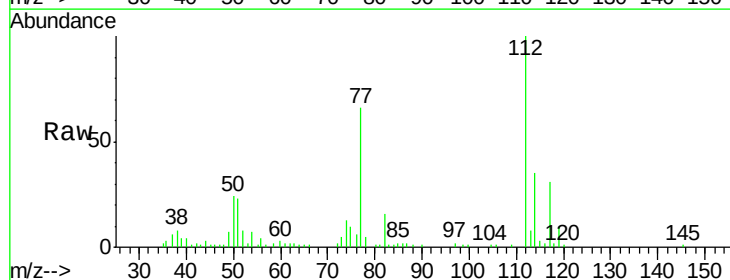
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BFXH3

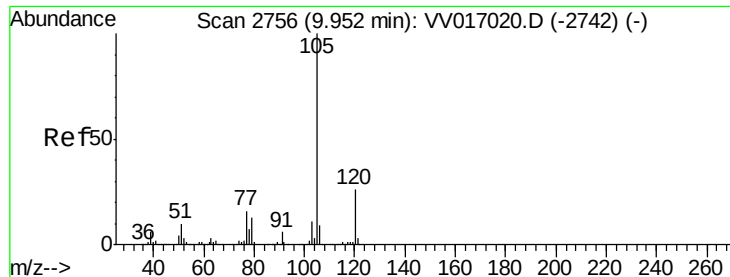
Tot Ion: 63 Resp: 3833  
 Ion Ratio Lower Upper  
 63 100  
 112 6.2 4.4 6.6



#53  
 Chlorobenzene  
 Concen: 0.783 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. 0.00 min  
 Lab File: VV017040.D  
 Acq: 23 Jun 2020 00:33

Tgt Ion: 112 Resp: 25655  
 Ion Ratio Lower Upper  
 112 100  
 114 34.8 22.0 41.0  
 77 65.9 46.0 69.0





#58

Isopropylbenzene

Concen: 0.107 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA\_V

ClientSampleId :

BFXH3

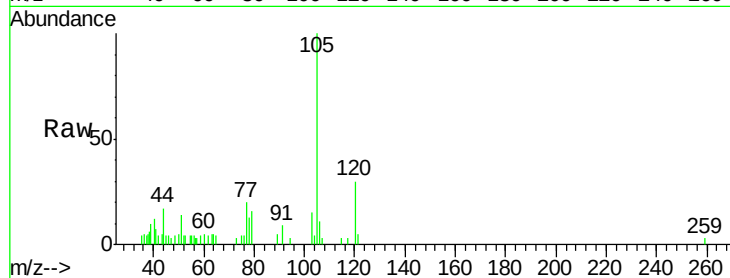
Tot Ion:105 Resp: 6076

Ion Ratio Lower Upper

105 100

120 29.8 21.2 31.8

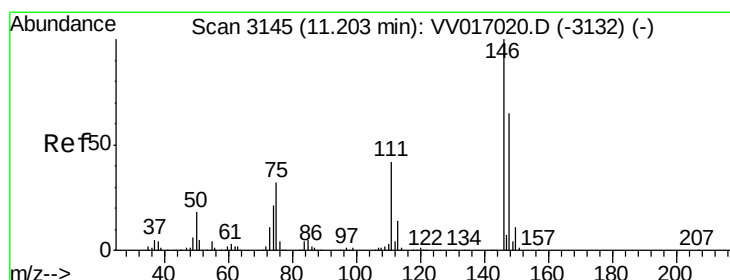
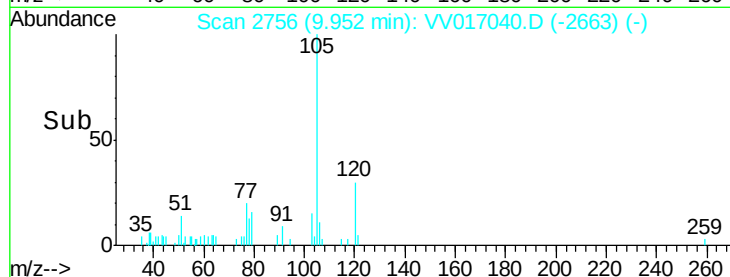
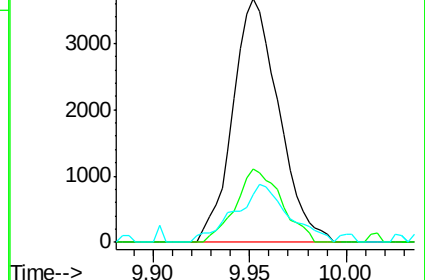
77 27.6 13.0 19.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#63

1,3-Dichlorobenzene

Concen: 0.143 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

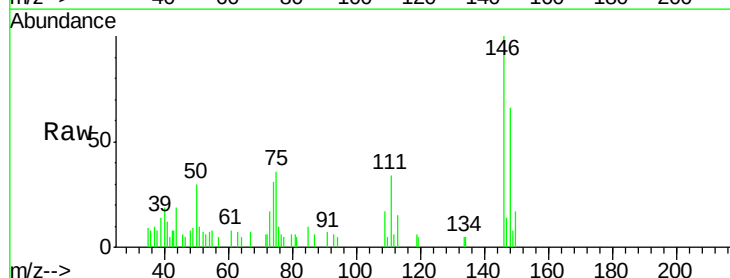
Tgt Ion:146 Resp: 3698

Ion Ratio Lower Upper

146 100

111 39.6 29.2 54.2

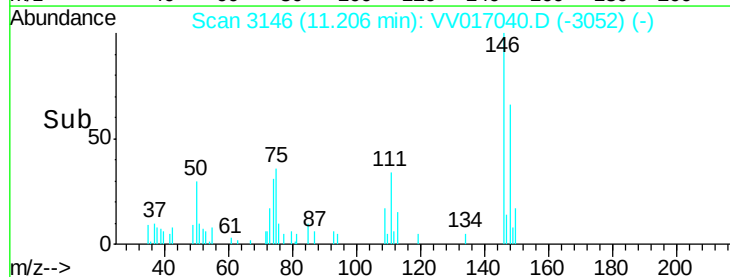
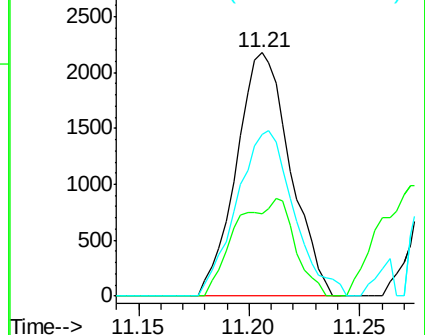
148 66.4 44.9 83.5



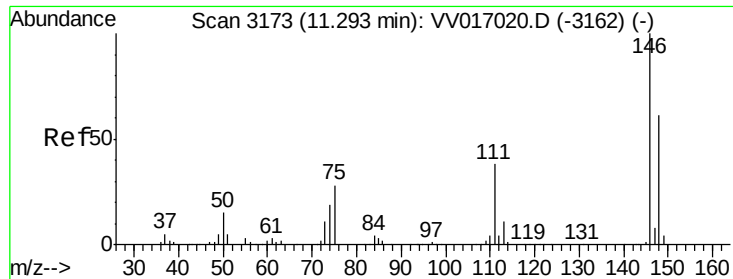
Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V







#64

1,4-Dichlorobenzene

Concen: 0.282 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA\_V

ClientSampleId :

BFXH3

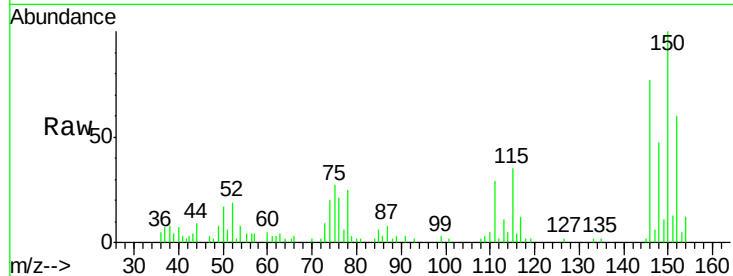
Tot Ion:146 Resp: 7431

Ion Ratio Lower Upper

146 100

111 37.8 27.4 50.8

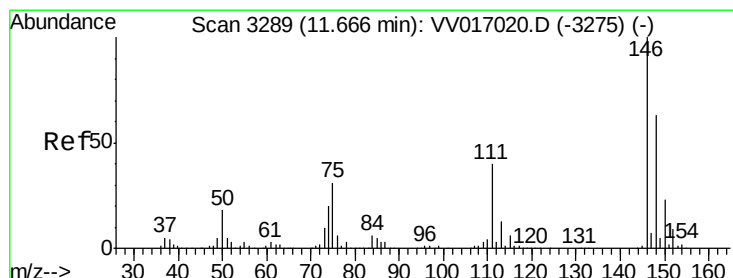
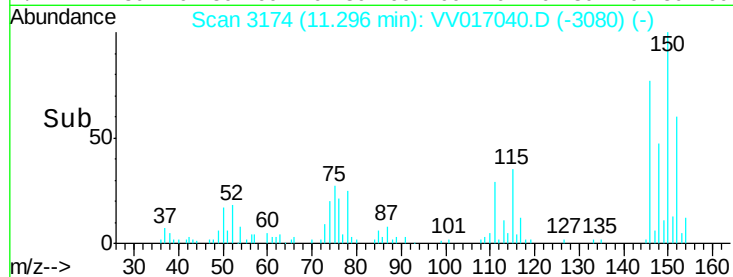
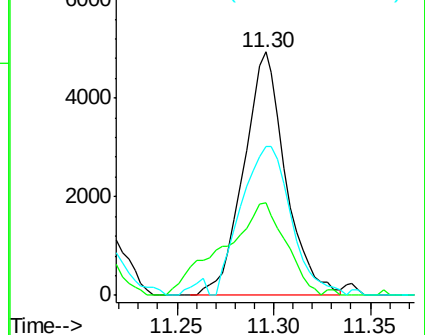
148 61.2 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 3.483 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

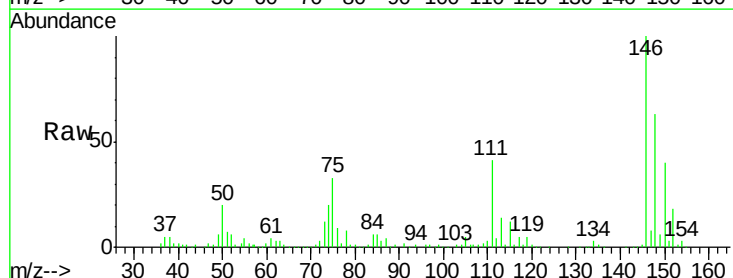
Tgt Ion:146 Resp: 81891

Ion Ratio Lower Upper

146 100

111 41.3 34.4 51.6

148 63.4 49.9 74.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

