

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV030920\  
 Data File : VV014770.D  
 Acq On : 09 Mar 2020 12:40  
 Operator : SY/MD  
 Sample : L1834-12  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DK4

Quant Time: Mar 10 14:47:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM030620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 10 14:44:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 430604   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 425407   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 215416   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

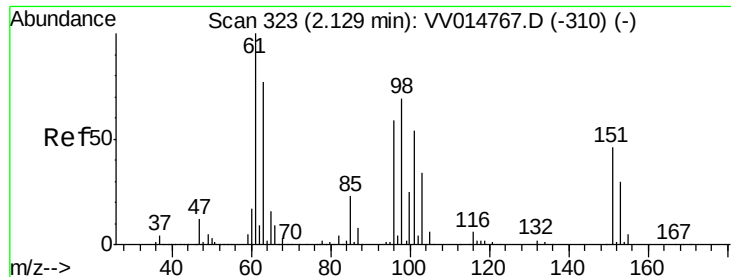
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 129007   | 44.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.54%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 106000   | 46.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.02%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 167268   | 34.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.08%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 203615   | 93.69    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.69%  |
| 24) Chloroform-d               | 4.38    | 84    | 248814   | 45.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.18%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 182004   | 48.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.12%  |
| 32) Benzene-d6                 | 5.08    | 84    | 555903   | 49.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 174959   | 46.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.98%  |
| 41) Toluene-d8                 | 7.34    | 98    | 530276   | 48.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.40%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 88434    | 48.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.30%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 158793   | 96.06    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 96.06%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 238086   | 46.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 217256   | 50.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.76% |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1676     | 0.70   | ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.12  | 96   | 1620     | 0.69   | ug/L # | 1      |
| 25) Chloroform                 | 4.41  | 83   | 22471    | 3.84   | ug/L   | 100    |
| 33) Benzene                    | 5.13  | 78   | 122297   | 9.92   | ug/L   | 100    |
| 48) 2-Hexanone                 | 8.12  | 43   | 17598    | 4.64   | ug/L # | 78     |
| 51) Chlorobenzene              | 8.90  | 112  | 1376505  | 157.35 | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 48391    | 6.95   | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 260860   | 37.17  | ug/L   | 100    |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 260883   | 37.62  | ug/L   | 99     |
| 67) 1,3,5-Trichlorobenzene     | 13.28 | 180  | 11579    | 2.15   | ug/L   | 97     |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 11579    | 2.34   | ug/L   | 97     |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 2286     | 0.46   | ug/L # | 84     |

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV030920\
Data File : VV014770.D
Acq On    : 09 Mar 2020   12:40
Operator  : SY/MD
Sample    : L1834-12
Misc      : 5.0mL/MSVOA_V/WATER
ALS Vial  : 6   Sample Multiplier: 1
```



#10

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

Concen: 0.70 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV014770.D

Acq: 09 Mar 2020 12:40

Instrument :

MSVOA\_V

ClientSampleId :

C0DK4

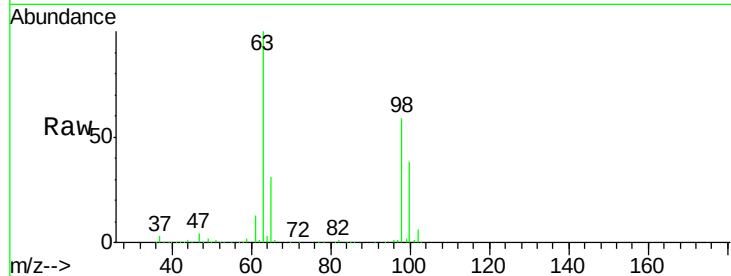
Tgt Ion: 101 Resp: 1676

Ion Ratio Lower Upper

101 100

85 4.1 35.0 52.6#

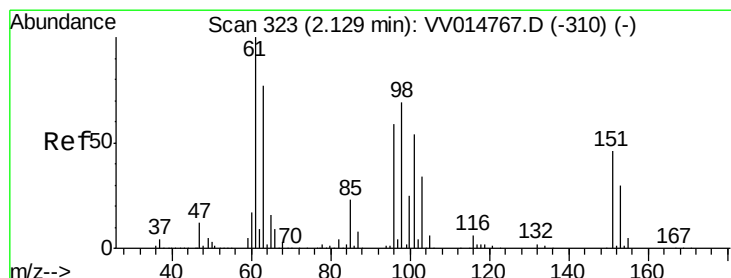
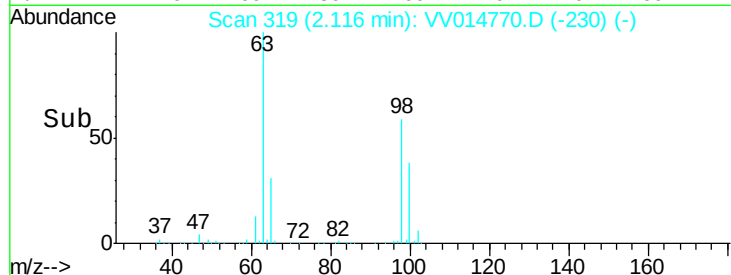
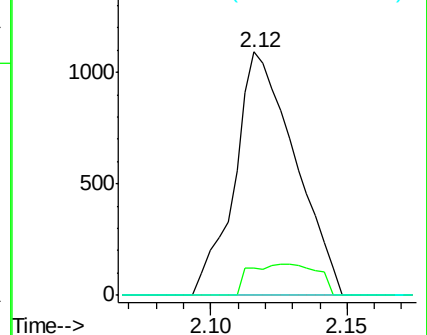
151 0.0 66.4 99.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.69 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014770.D

Acq: 09 Mar 2020 12:40

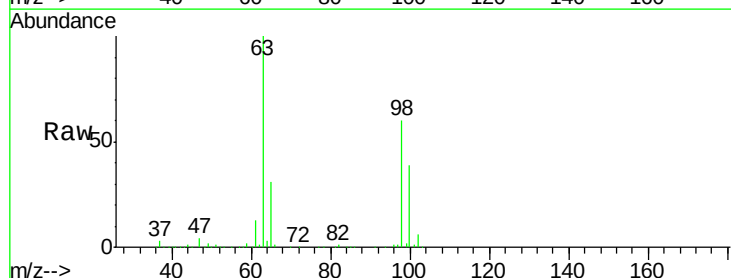
Tgt Ion: 96 Resp: 1620

Ion Ratio Lower Upper

96 100

61 1652.5 118.4 220.0#

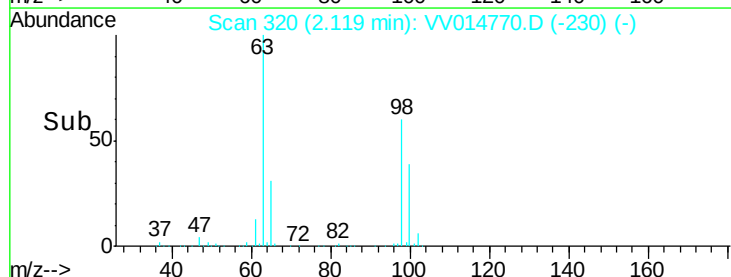
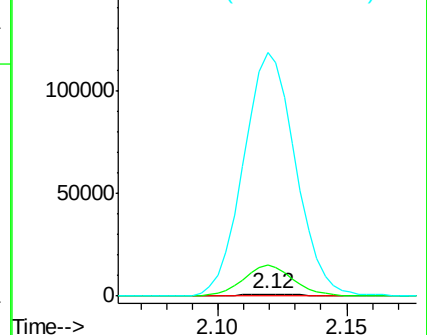
63 13065.8 88.4 164.2#

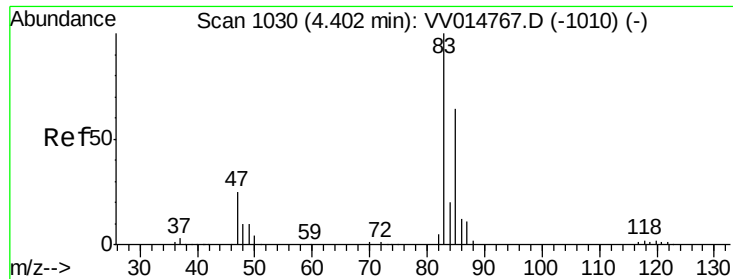


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

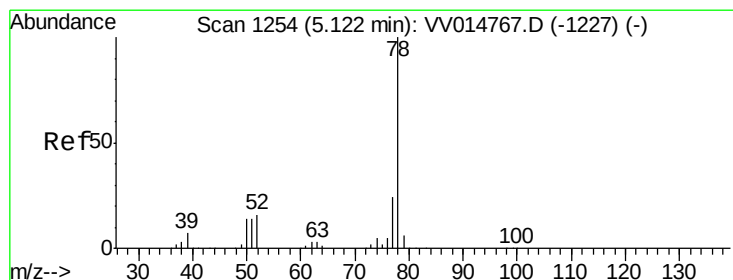
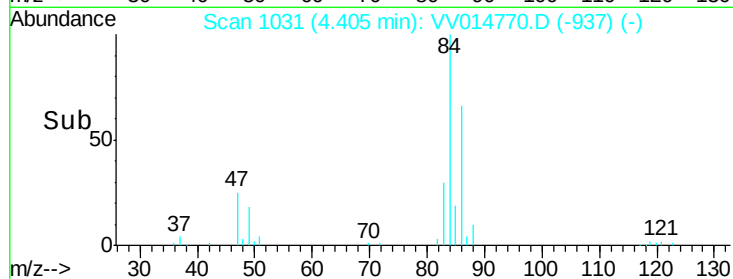
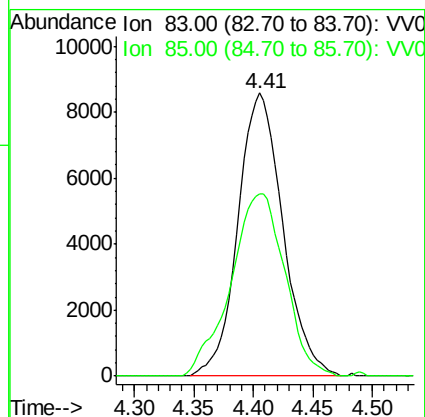
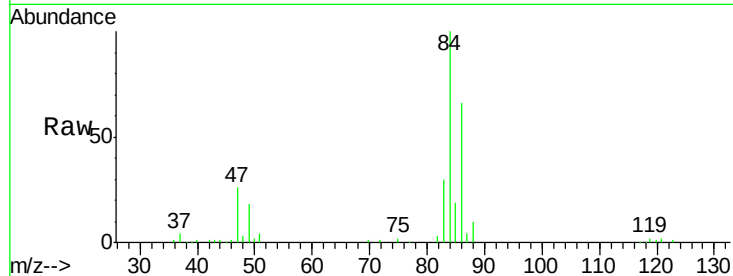




#25  
Chloroform  
Concen: 3.84 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV014770.D  
Acq: 09 Mar 2020 12:40

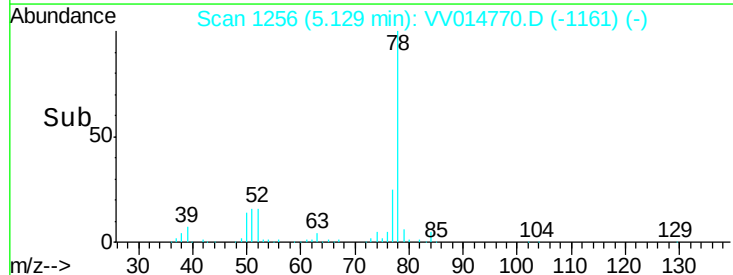
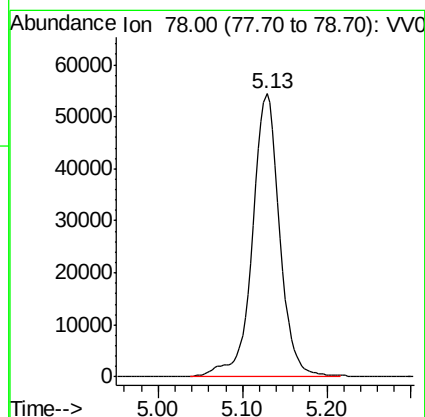
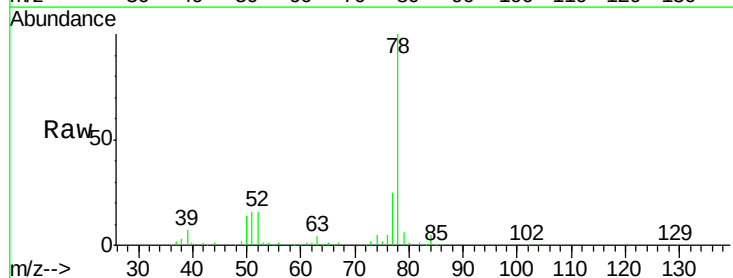
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DK4

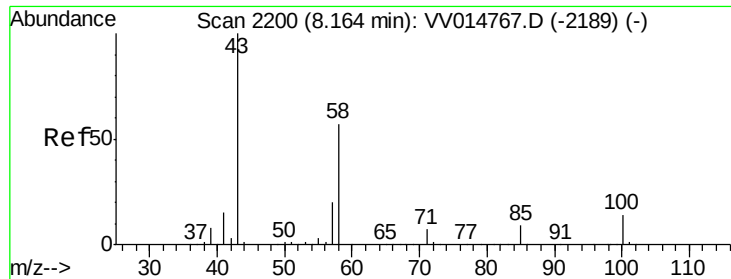
Tgt Ion: 83 Resp: 22471  
Ion Ratio Lower Upper  
83 100  
85 64.6 45.1 83.9



#33  
Benzene  
Concen: 9.92 ug/L  
RT: 5.13 min Scan# 1256  
Delta R.T. 0.01 min  
Lab File: VV014770.D  
Acq: 09 Mar 2020 12:40

Tgt Ion: 78 Resp: 122297

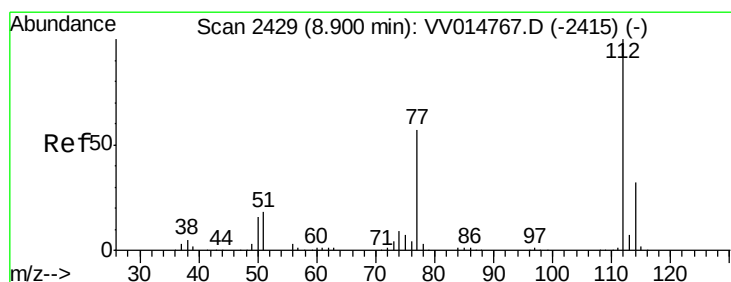
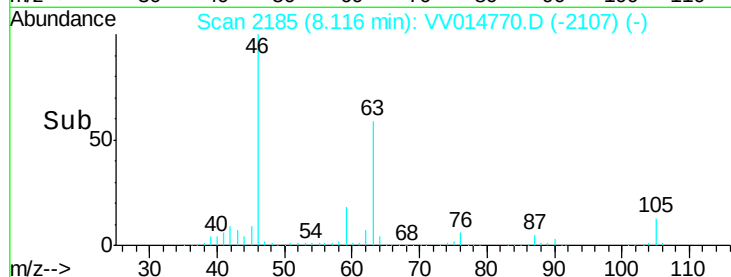
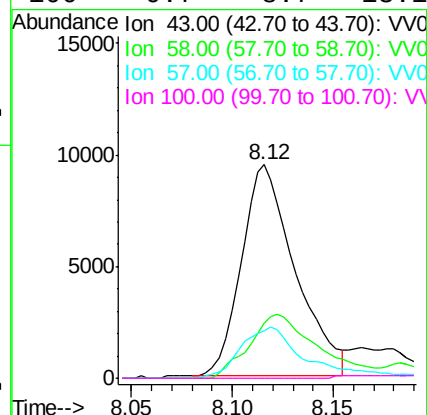
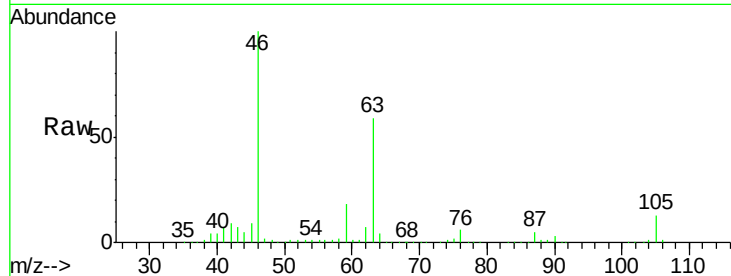




#48  
2-Hexanone  
Concen: 4.64 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.05 min  
Lab File: VV014770.D  
Acq: 09 Mar 2020 12:40

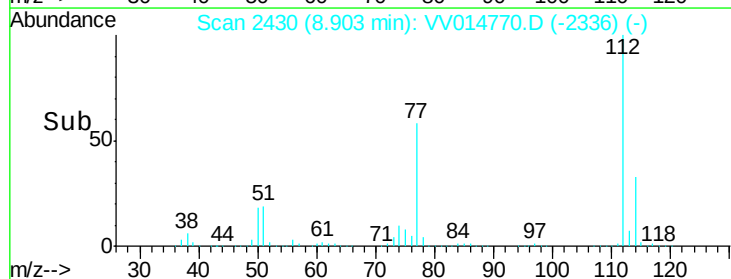
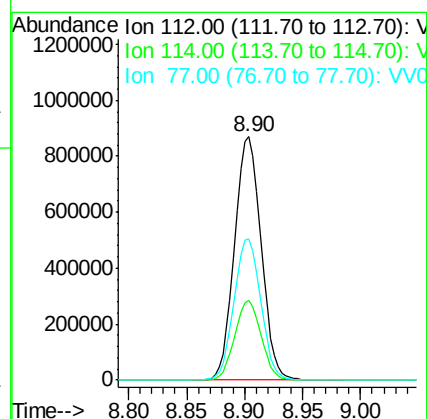
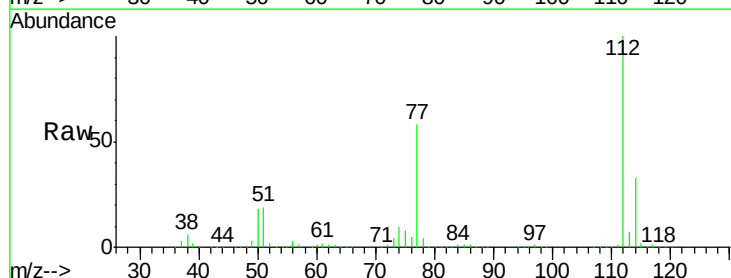
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DK4

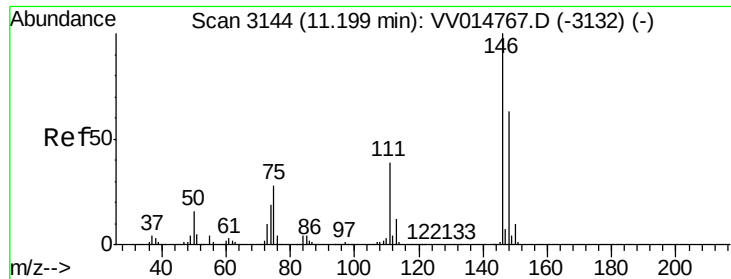
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 17598 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 38.9  | 43.3  | 64.9# |
| 57       | 29.2  | 15.6  | 23.4# |
| 100      | 0.7   | 8.7   | 13.1# |



#51  
Chlorobenzene  
Concen: 157.35 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV014770.D  
Acq: 09 Mar 2020 12:40

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 112   | Resp: | 1376505 |
| Ion      | Ratio | Lower | Upper   |
| 112      | 100   |       |         |
| 114      | 32.6  | 22.1  | 41.1    |
| 77       | 58.1  | 47.8  | 71.8    |

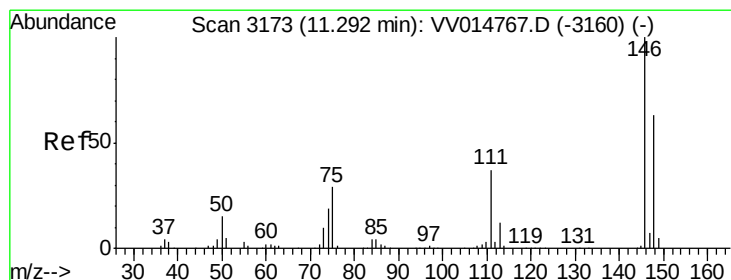
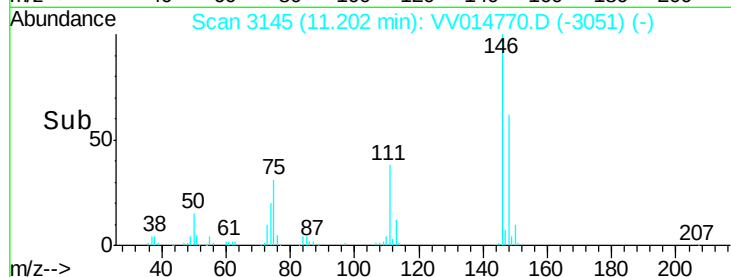
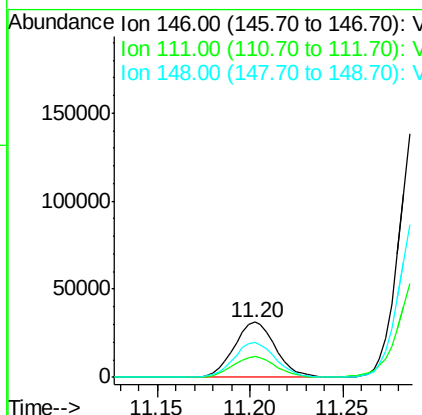
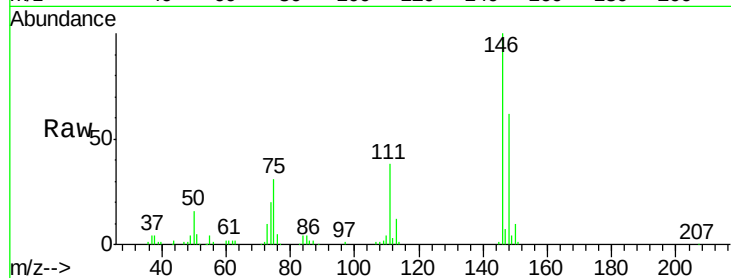




#62  
 1,3-Dichlorobenzene  
 Concen: 6.95 ug/L  
 RT: 11.20 min Scan# 3145  
 Delta R.T. 0.00 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

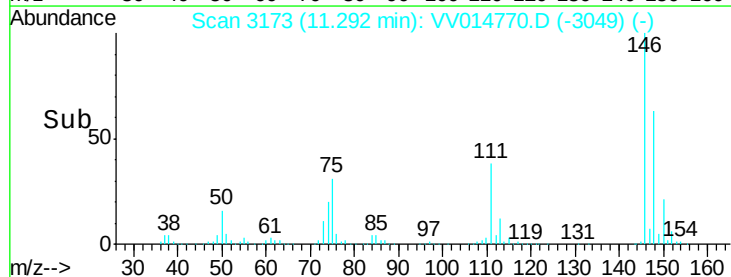
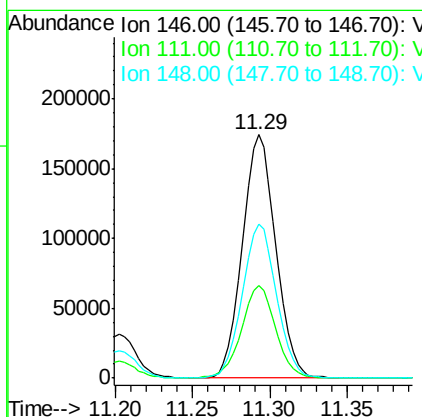
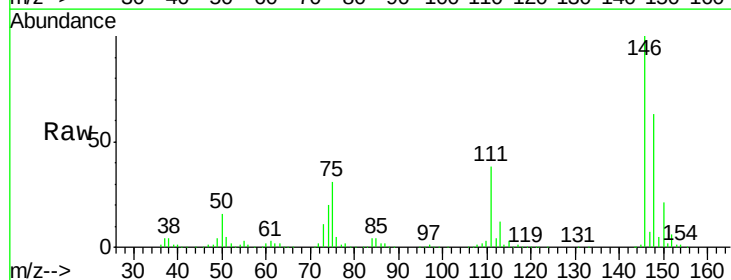
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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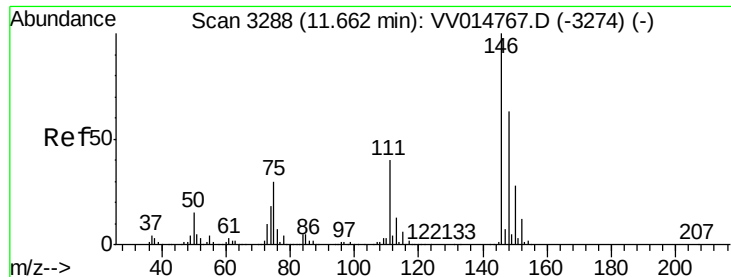
Tgt Ion:146 Resp: 48391  
 Ion Ratio Lower Upper  
 146 100  
 111 37.6 27.2 50.4  
 148 62.0 44.2 82.2



#63  
 1,4-Dichlorobenzene  
 Concen: 37.17 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

Tgt Ion:146 Resp: 260860  
 Ion Ratio Lower Upper  
 146 100  
 111 37.8 26.3 48.9  
 148 63.3 44.0 81.8

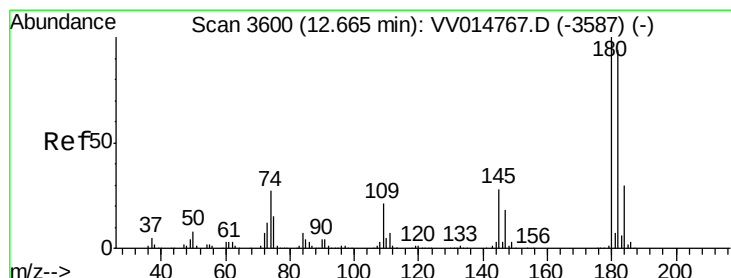
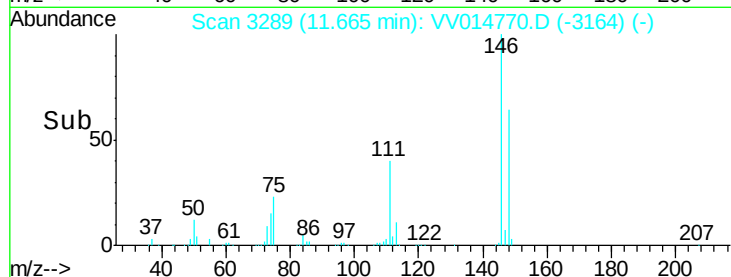
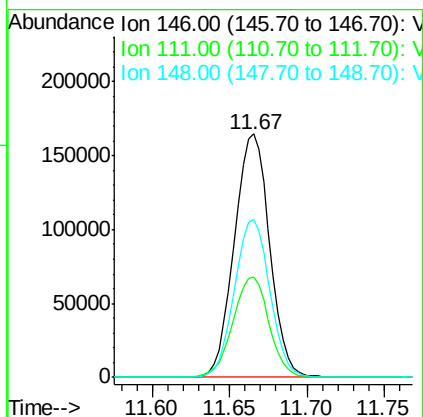
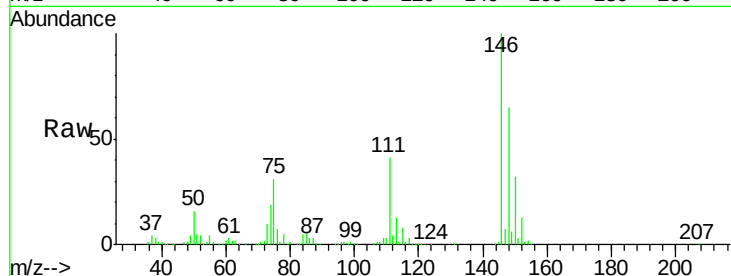




#65  
 1,2-Dichlorobenzene  
 Concen: 37.62 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

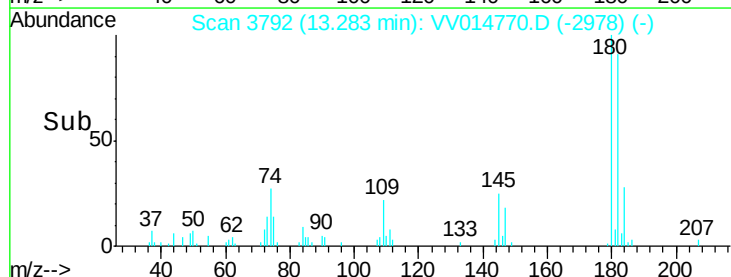
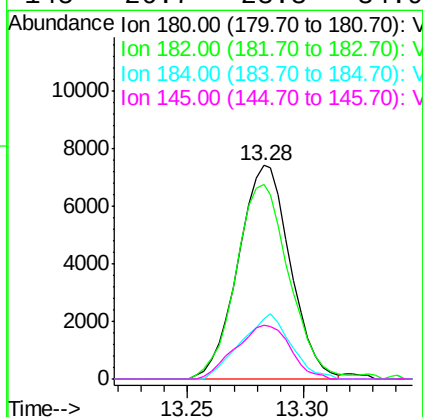
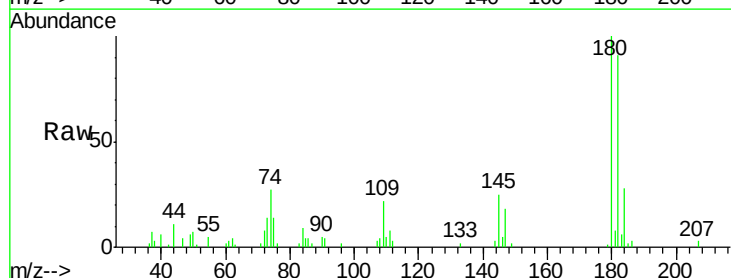
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DK4

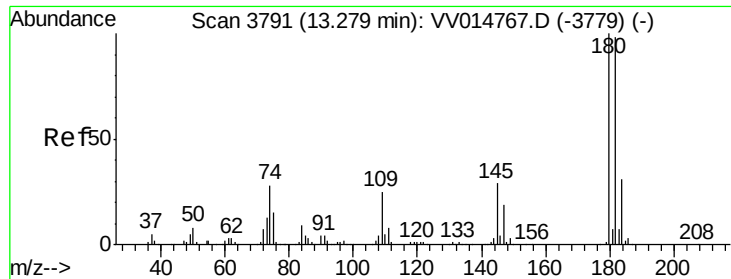
Tgt Ion:146 Resp: 260883  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 33.9 50.9  
 148 64.7 51.4 77.0



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.15 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.62 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

Tgt Ion:180 Resp: 11579  
 Ion Ratio Lower Upper  
 180 100  
 182 93.0 75.6 113.4  
 184 29.1 24.8 37.2  
 145 26.7 23.3 34.9

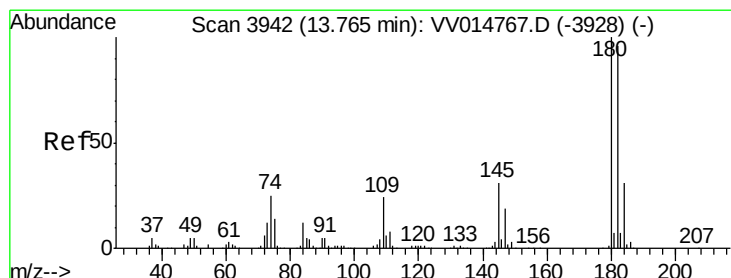
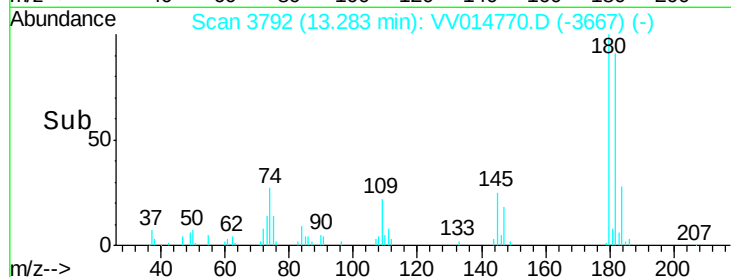
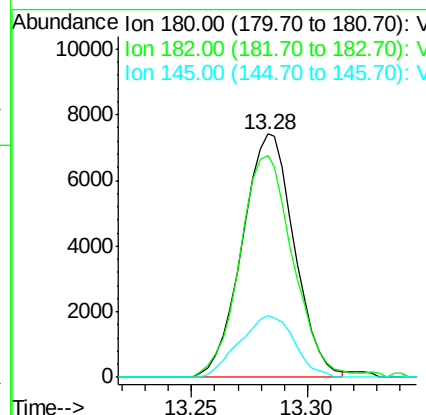
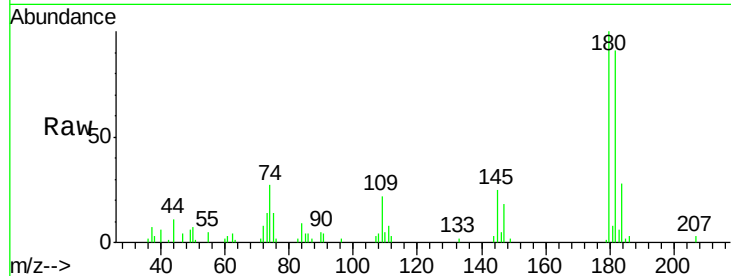




#68  
 1,2,4-trichlorobenzene  
 Concen: 2.34 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DK4

Tgt Ion:180 Resp: 11579  
 Ion Ratio Lower Upper  
 180 100  
 182 93.0 76.6 114.8  
 145 26.7 23.4 35.0



#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.46 ug/L  
 RT: 13.77 min Scan# 3942  
 Delta R.T. 0.00 min  
 Lab File: VV014770.D  
 Acq: 09 Mar 2020 12:40

Tgt Ion:180 Resp: 2286  
 Ion Ratio Lower Upper  
 180 100  
 182 76.2 76.5 114.7#  
 145 29.2 25.0 37.4

