

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040220\  
 Data File : VV015371.D  
 Acq On : 02 Apr 2020 13:59  
 Operator : SY/MD  
 Sample : L2005-03 500X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 03 01:33:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 03 01:25:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 706368   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 689368   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 321604   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 226499   | 35.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 71.52% |
| 7) Chloroethane-d5             | 1.58    | 69    | 208698   | 38.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 77.14% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 349659   | 30.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 61.78% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 316546   | 94.03    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.03% |
| 24) Chloroform-d               | 4.38    | 84    | 427629   | 40.90    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.80% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 280171   | 43.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.02% |
| 32) Benzene-d6                 | 5.07    | 84    | 902421   | 42.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.02% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 272541   | 43.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.08% |
| 41) Toluene-d8                 | 7.34    | 98    | 859521   | 42.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.68% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 138254   | 39.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.96% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 248902   | 87.07    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.07% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 389905   | 43.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.56% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 333274   | 45.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.10% |

## Target Compounds

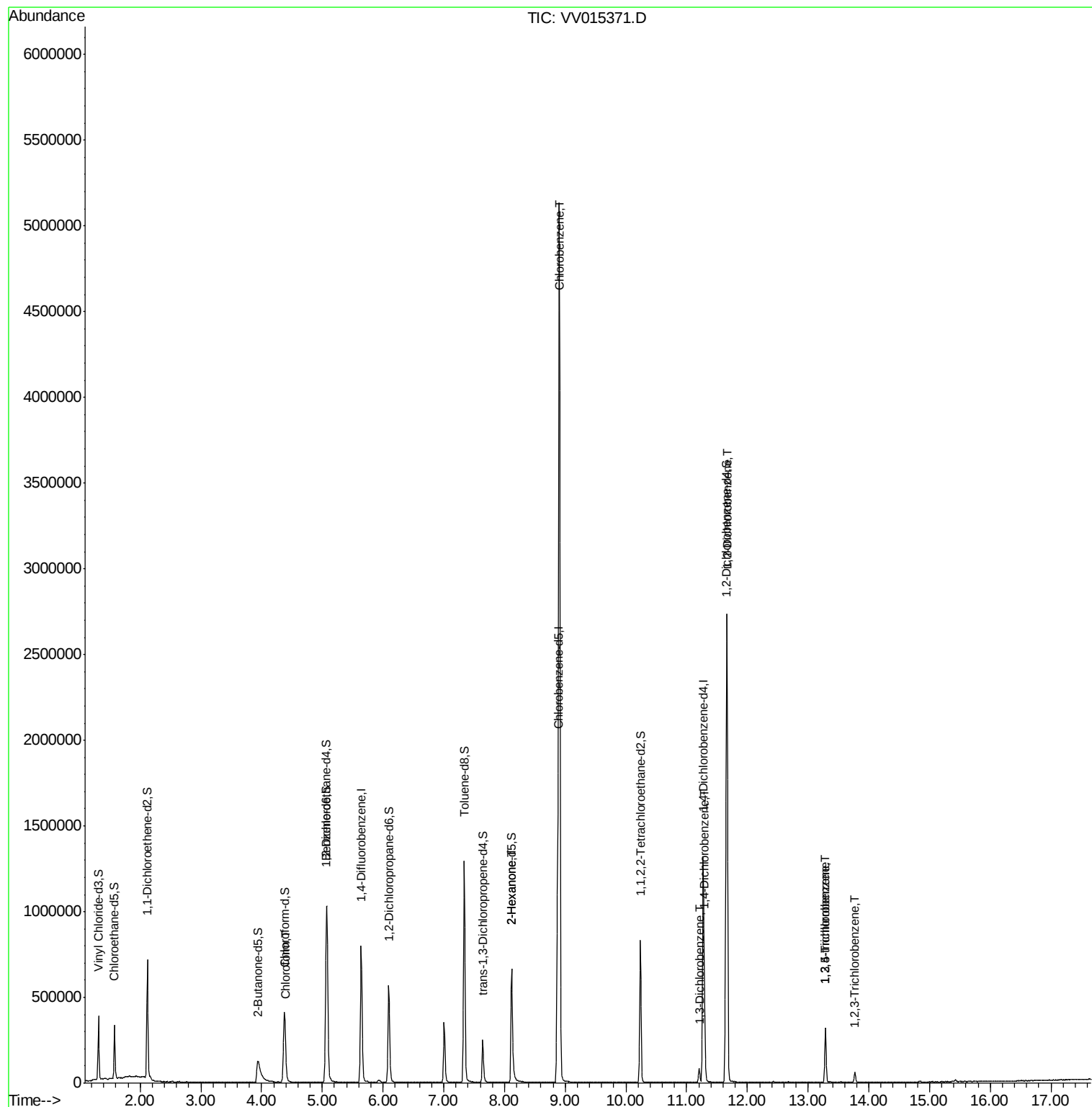
|                            |       |     |         |         | Ovalue    |
|----------------------------|-------|-----|---------|---------|-----------|
| 25) Chloroform             | 4.41  | 83  | 13062   | 1.372   | ug/L 100  |
| 48) 2-Hexanone             | 8.12  | 43  | 30398   | 5.702   | ug/L # 80 |
| 51) Chlorobenzene          | 8.90  | 112 | 2740700 | 184.409 | ug/L 97   |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146 | 33748   | 3.117   | ug/L 97   |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146 | 167501  | 15.254  | ug/L 97   |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146 | 950089  | 86.035  | ug/L 99   |
| 67) 1,3,5-Trichlorobenzene | 13.29 | 180 | 92462   | 12.886  | ug/L 99   |
| 68) 1,2,4-Trichlorobenzene | 13.29 | 180 | 92462   | 14.107  | ug/L 97   |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180 | 16535   | 2.449   | ug/L 100  |

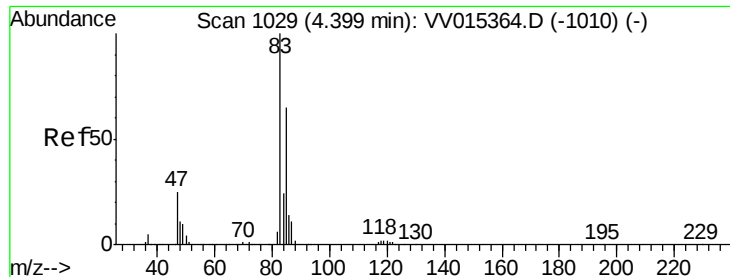
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 03 01:33:15 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 03 01:25:45 2020  
Response via : Initial Calibration





#25

Chloroform

Concen: 1.372 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV015371.D

Acq: 02 Apr 2020 13:59

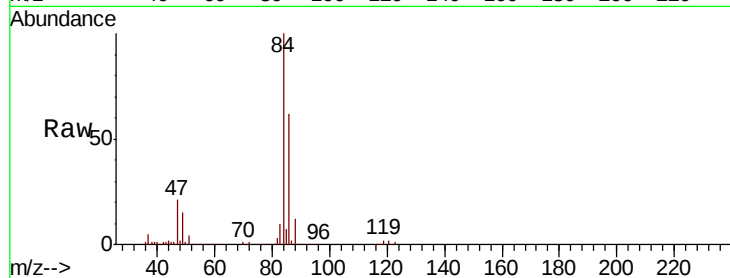
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 13062

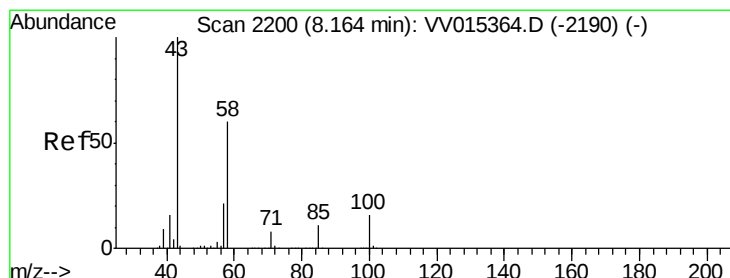
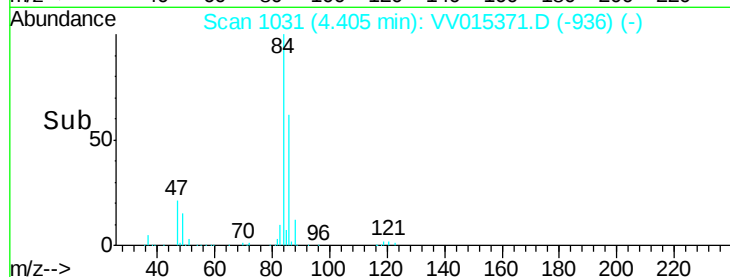
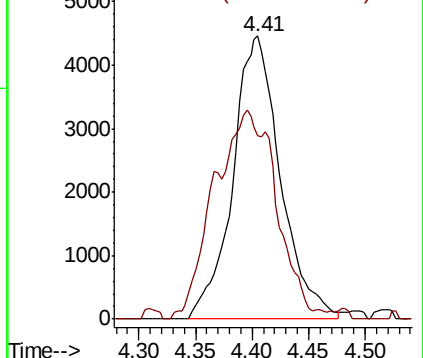
Ion Ratio Lower Upper

83 100

85 64.8 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VV015371.D (-936) (-)



#48

2-Hexanone

Concen: 5.702 ug/L

RT: 8.12 min Scan# 2186

Delta R.T. -0.05 min

Lab File: VV015371.D

Acq: 02 Apr 2020 13:59

Tgt Ion: 43 Resp: 30398

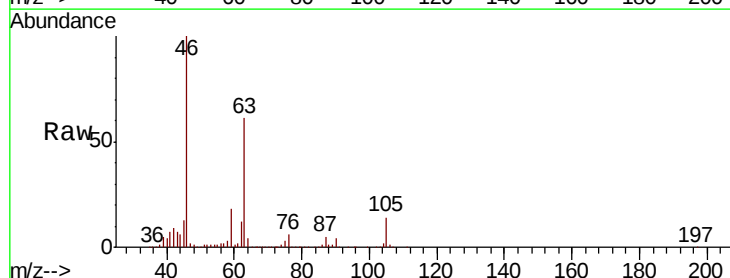
Ion Ratio Lower Upper

43 100

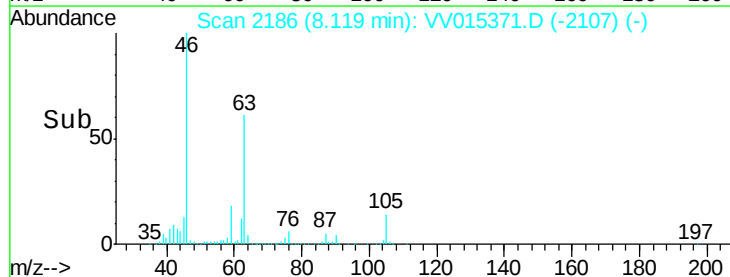
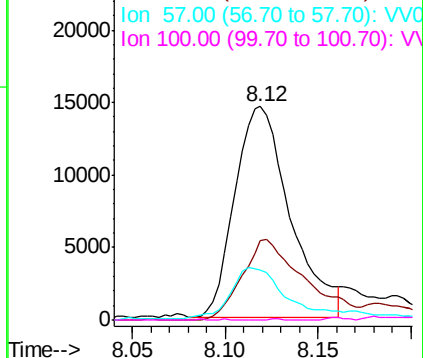
58 43.0 47.4 71.2#

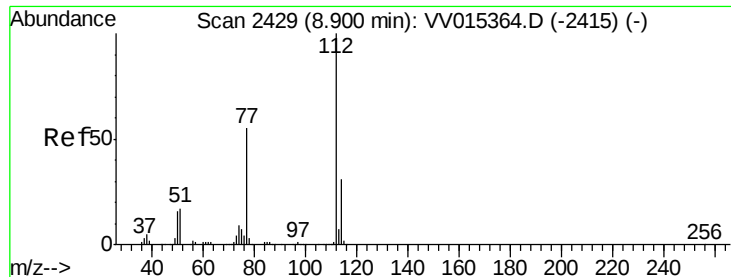
57 23.5 16.7 25.1

100 0.1 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VV015371.D (-2107) (-)

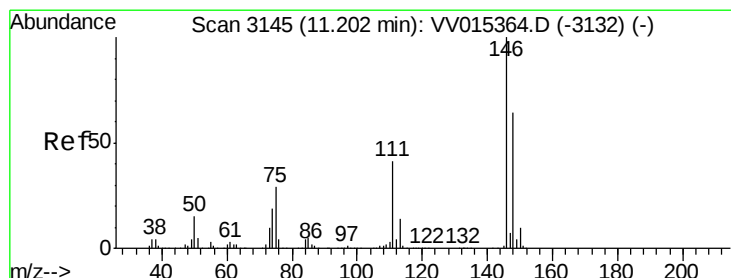
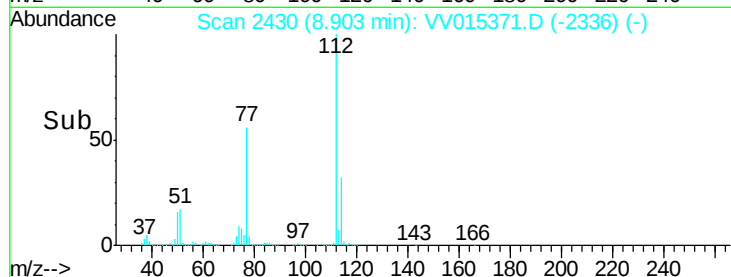
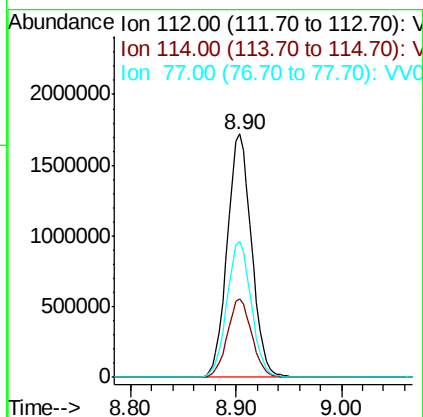
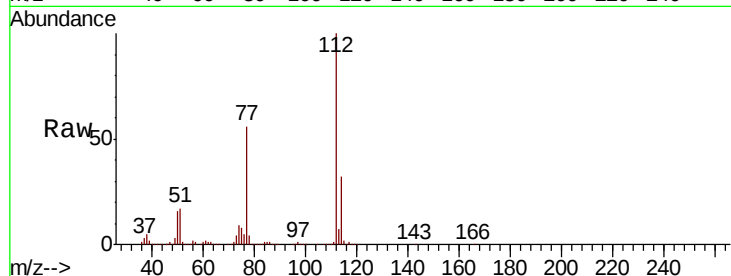




#51  
Chlorobenzene  
Concen: 184.409 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VV015371.D  
Acq: 02 Apr 2020 13:59

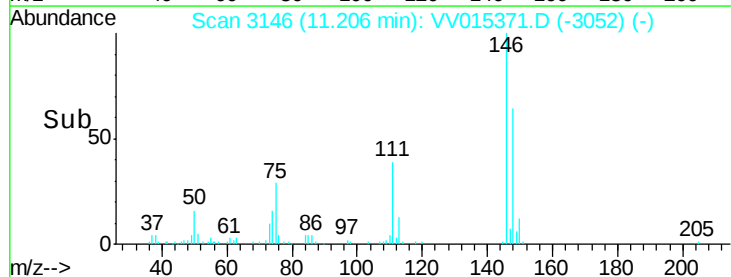
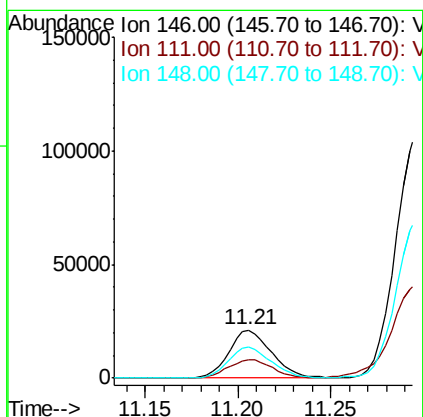
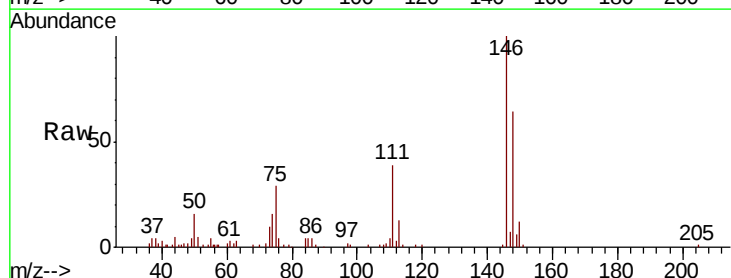
Instrument :  
MSVOA\_V  
ClientSampleId :

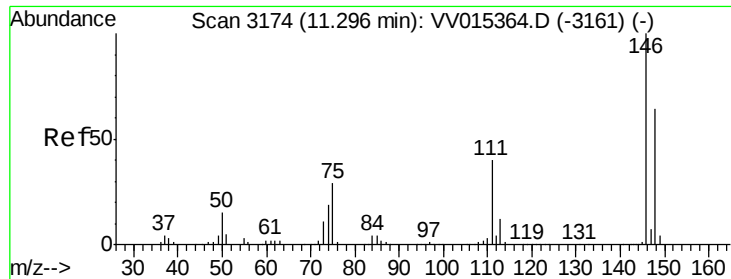
Tot Ion:112 Resp: 2740700  
Ion Ratio Lower Upper  
112 100  
114 32.3 21.8 40.4  
77 55.6 46.2 69.2



#62  
1,3-Dichlorobenzene  
Concen: 3.117 ug/L  
RT: 11.21 min Scan# 3146  
Delta R.T. 0.00 min  
Lab File: VV015371.D  
Acq: 02 Apr 2020 13:59

Tgt Ion:146 Resp: 33748  
Ion Ratio Lower Upper  
146 100  
111 38.7 30.2 56.2  
148 64.0 44.7 83.1





#63

1,4-Dichlorobenzene

Concen: 15.254 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV015371.D

Acq: 02 Apr 2020 13:59

Instrument :

MSVOA\_V

ClientSampled :

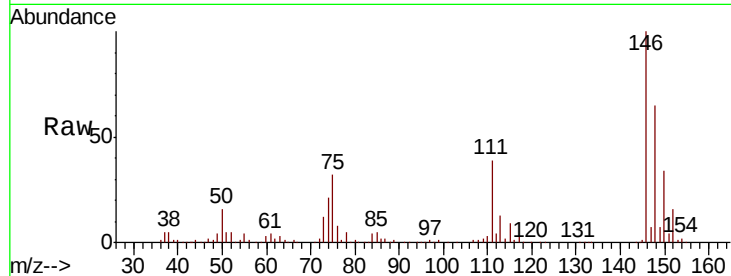
Tot Ion:146 Resp: 167501

Ion Ratio Lower Upper

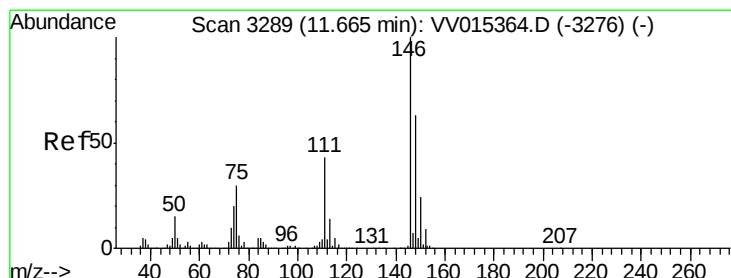
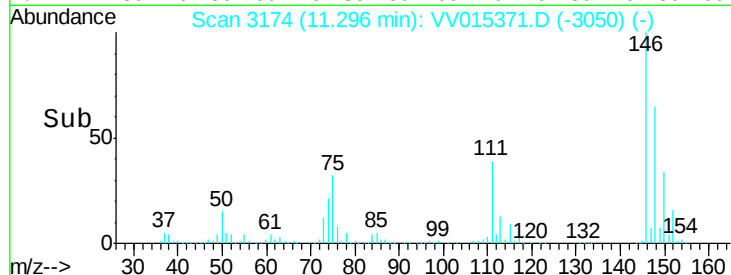
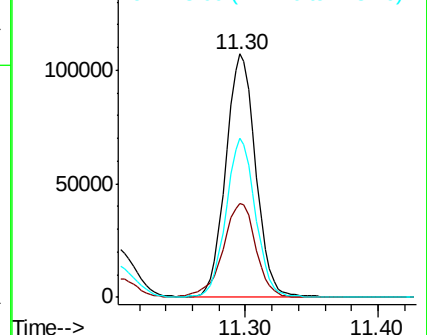
146 100

111 38.8 29.3 54.5

148 65.2 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 86.035 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV015371.D

Acq: 02 Apr 2020 13:59

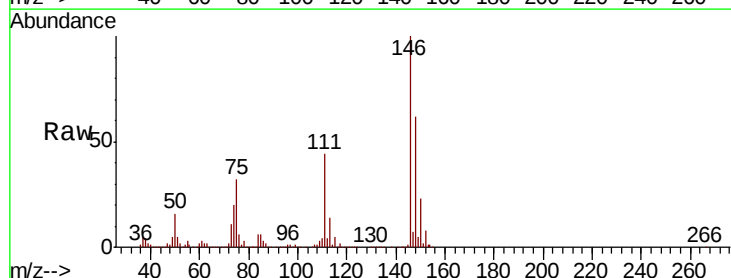
Tgt Ion:146 Resp: 950089

Ion Ratio Lower Upper

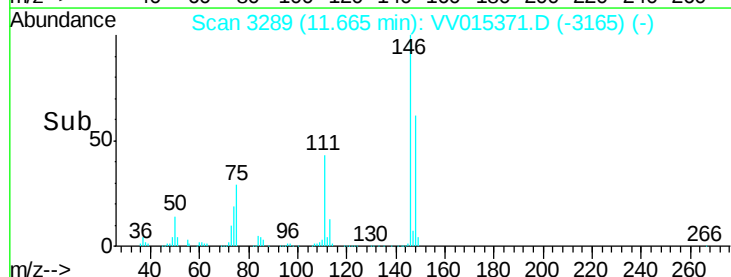
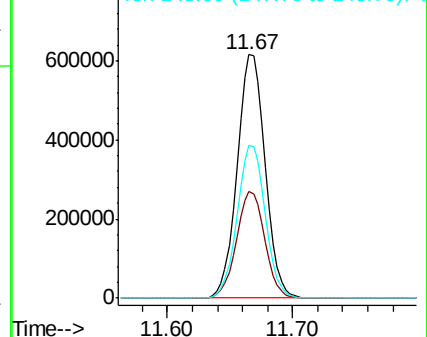
146 100

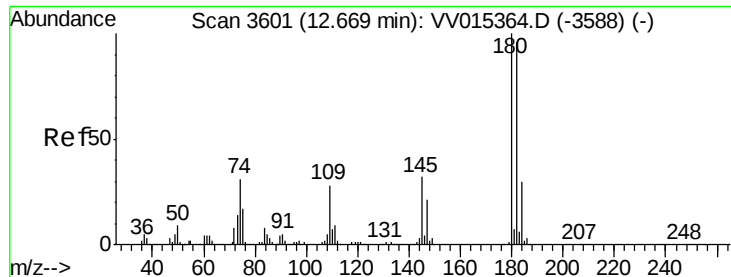
111 43.7 35.1 52.7

148 62.5 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V

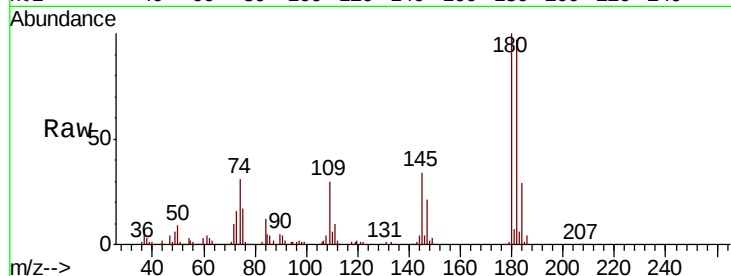




#67  
 1,3,5-Trichlorobenzene  
 Concen: 12.886 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.62 min  
 Lab File: VV015371.D  
 Acq: 02 Apr 2020 13:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.1  | 74.7  | 112.1 |
| 184     | 29.0  | 23.7  | 35.5  |
| 145     | 32.8  | 26.8  | 40.2  |



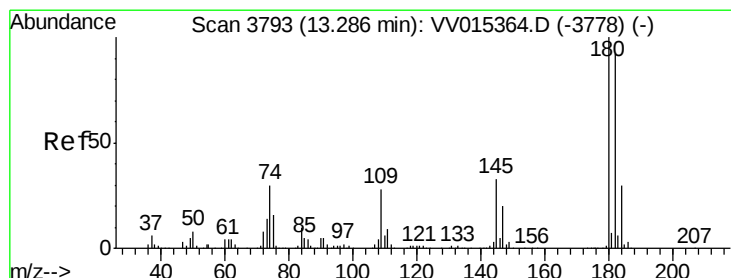
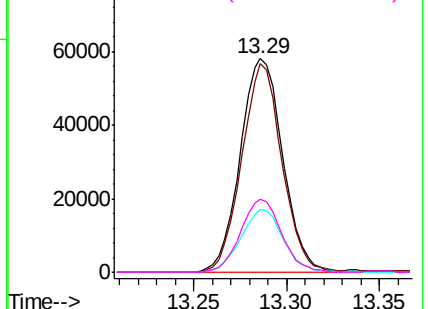
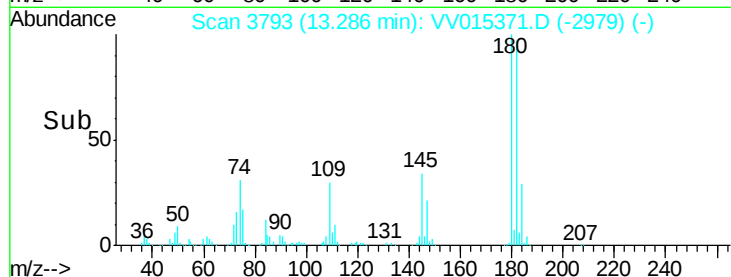
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

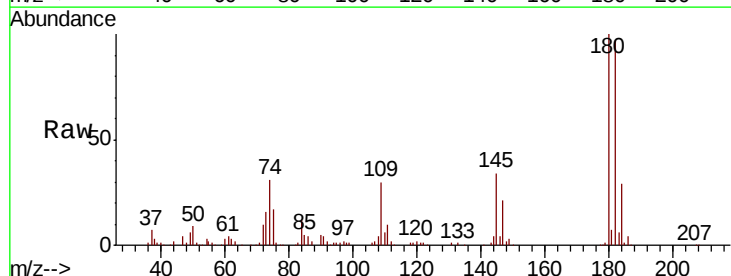
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 14.107 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV015371.D  
 Acq: 02 Apr 2020 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.1  | 75.8  | 113.8 |
| 145     | 32.8  | 27.7  | 41.5  |

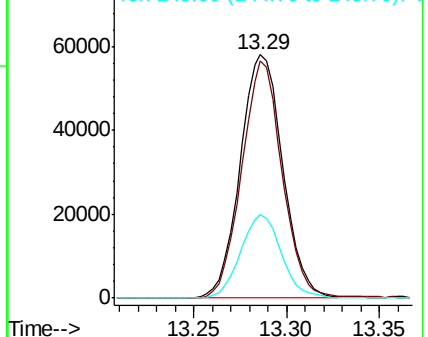
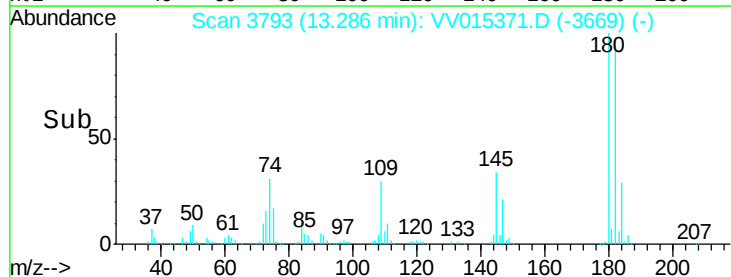


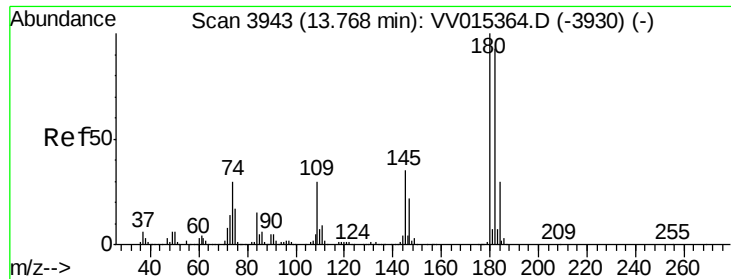
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 2.449 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

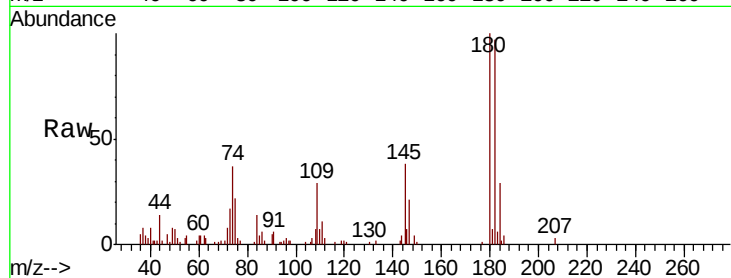
Lab File: VV015371.D

Acq: 02 Apr 2020 13:59

Instrument :

MSVOA\_V

ClientSampleId :



Tot Ion:180 Resp: 16535

Ion Ratio Lower Upper

180 100

182 95.1 76.1 114.1

145 35.2 28.2 42.4

