

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040220\  
 Data File : VV015370.D  
 Acq On : 02 Apr 2020 13:35  
 Operator : SY/MD  
 Sample : L2005-02 20X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CODE2

Quant Time: Apr 03 02:40:46 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  | 703908   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 678220   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 323590   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 223848   | 35.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.94% |
| 7) Chloroethane-d5             | 1.58    | 69    | 203402   | 37.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.46% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 352471   | 31.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.48% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 299975   | 89.42    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.42% |
| 24) Chloroform-d               | 4.38    | 84    | 426124   | 40.90    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 81.80% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 279400   | 43.05    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.10% |
| 32) Benzene-d6                 | 5.08    | 84    | 893357   | 42.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.54% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 264865   | 43.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.02% |
| 41) Toluene-d8                 | 7.34    | 98    | 854693   | 42.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.58% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 136369   | 40.08    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.16% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 244371   | 86.89    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.89% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 382633   | 43.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.34% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 329968   | 44.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.66% |

## Target Compounds

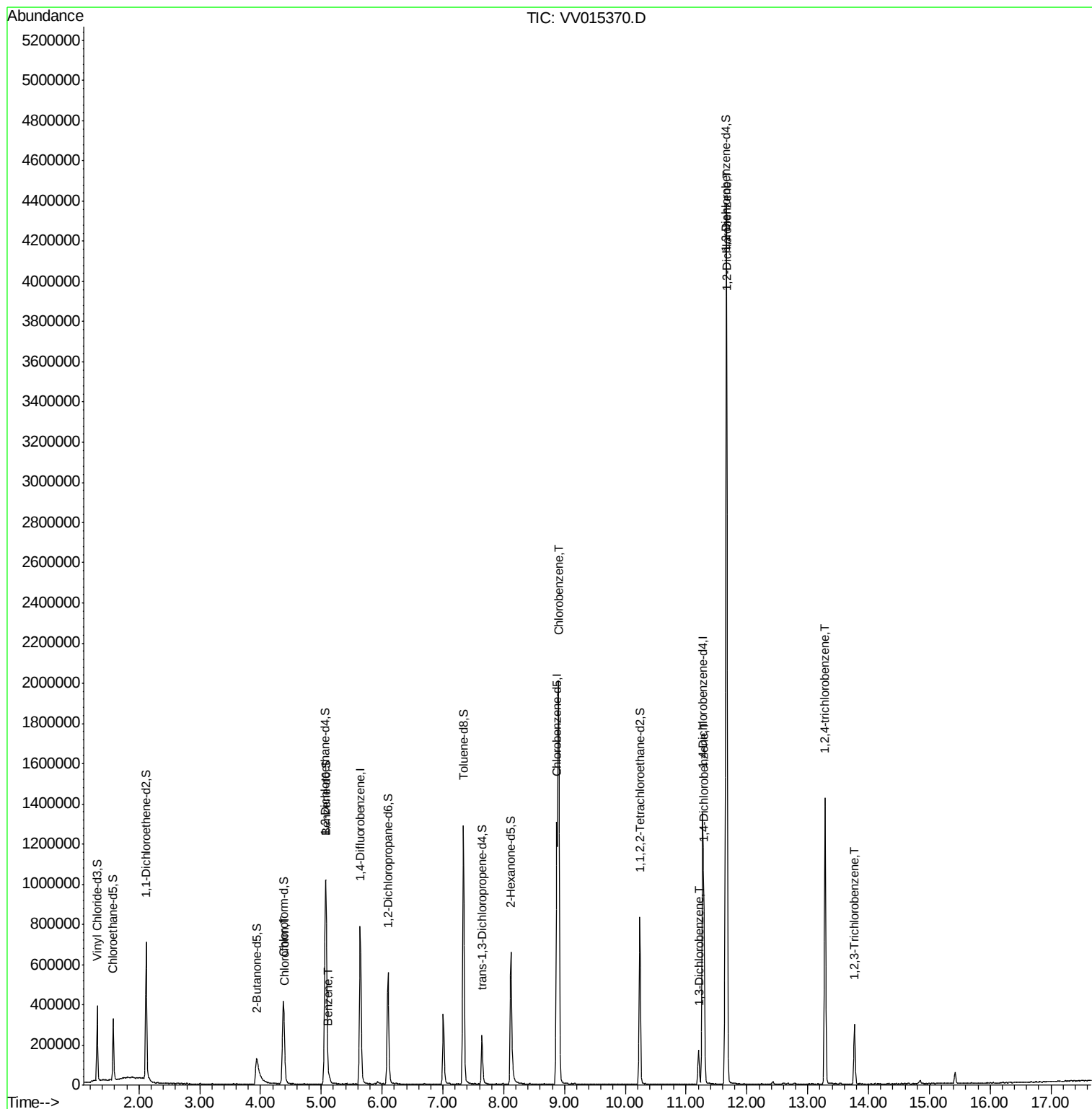
|                            |       |     |         |         | Ovalue   |
|----------------------------|-------|-----|---------|---------|----------|
| 25) Chloroform             | 4.40  | 83  | 12168   | 1.282   | ug/L 85  |
| 33) Benzene                | 5.13  | 78  | 33718   | 1.680   | ug/L 100 |
| 51) Chlorobenzene          | 8.90  | 112 | 1093417 | 74.780  | ug/L 97  |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146 | 68870   | 6.322   | ug/L 95  |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146 | 304738  | 27.582  | ug/L 98  |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146 | 1618656 | 145.678 | ug/L 99  |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180 | 400349  | 60.708  | ug/L 100 |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180 | 84601   | 12.454  | ug/L 100 |

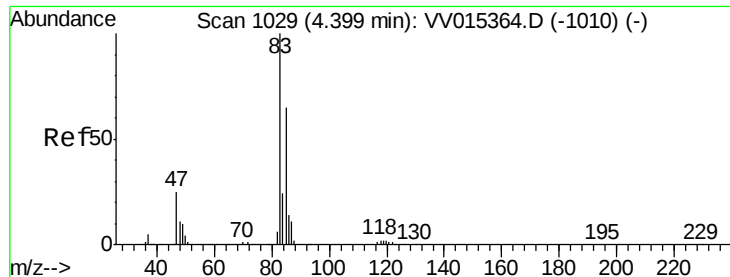
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Apr 03 01:25:45 2020  
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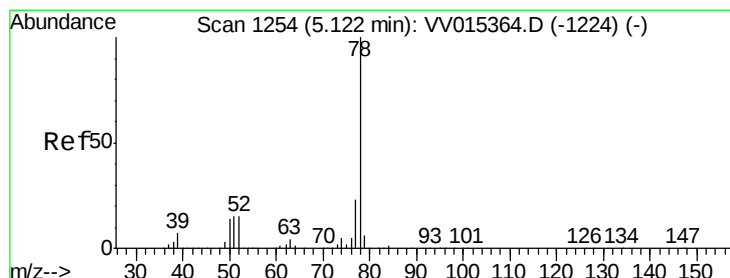
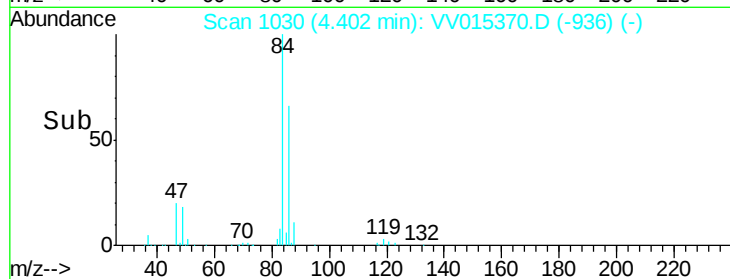
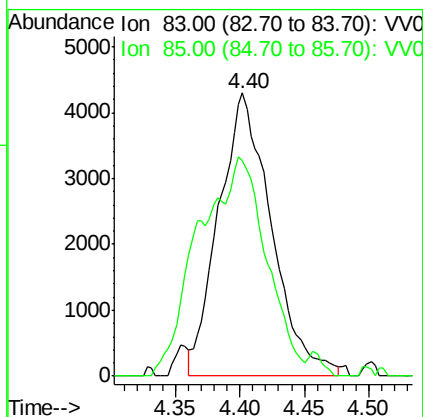
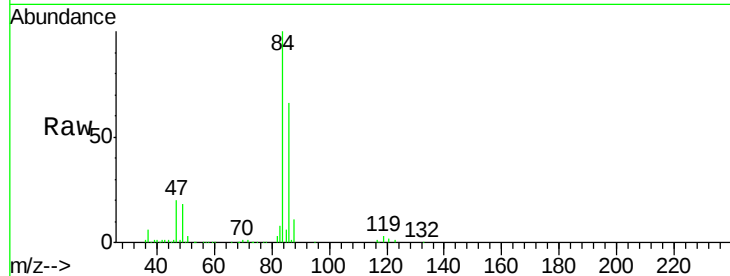




#25  
Chloroform  
Concen: 1.282 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV015370.D  
Acq: 02 Apr 2020 13:35

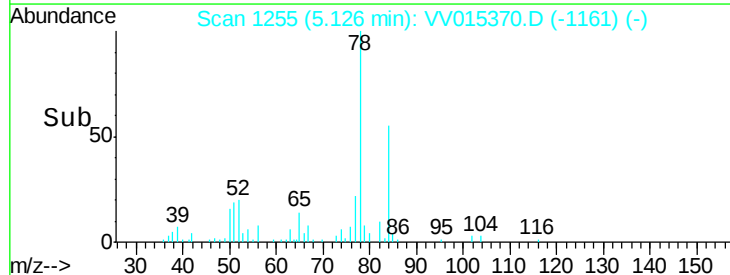
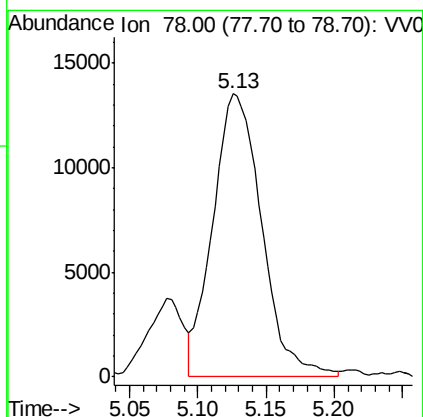
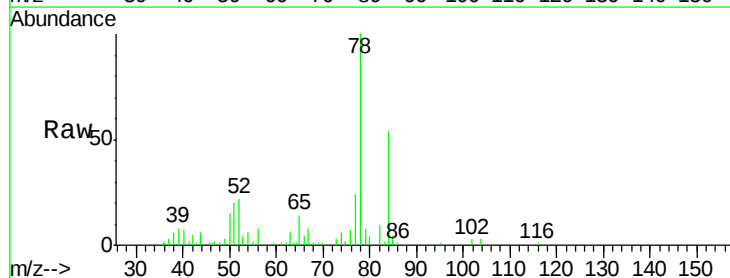
Instrument :  
MSVOA\_V  
ClientSampleId :  
CODE2

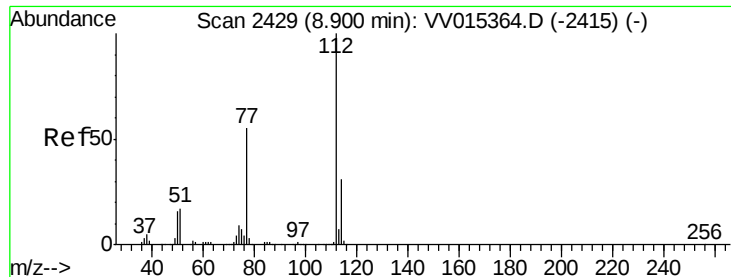
Tot Ion: 83 Resp: 12168  
Ion Ratio Lower Upper  
83 100  
85 76.1 45.1 83.9



#33  
Benzene  
Concen: 1.680 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV015370.D  
Acq: 02 Apr 2020 13:35

Tgt Ion: 78 Resp: 33718





#51

Chlorobenzene

Concen: 74.780 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015370.D

Acq: 02 Apr 2020 13:35

Instrument :

MSVOA\_V

ClientSampleId :

C0DE2

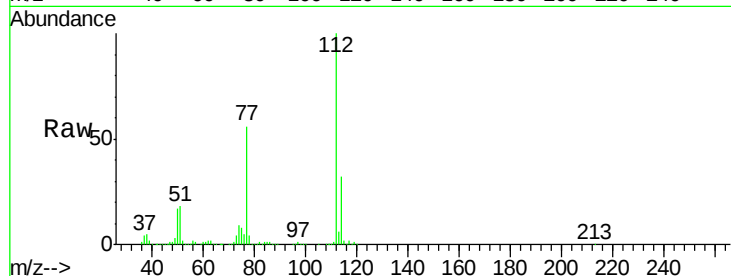
Tot Ion:112 Resp: 1093417

Ion Ratio Lower Upper

112 100

114 32.4 21.8 40.4

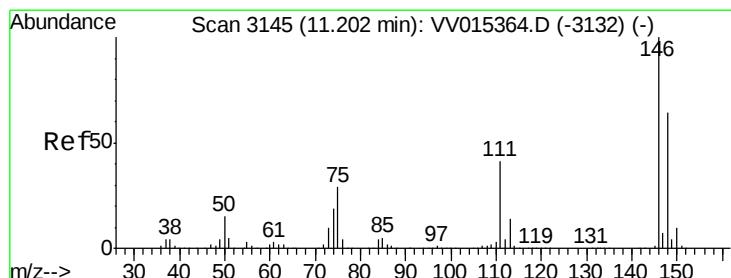
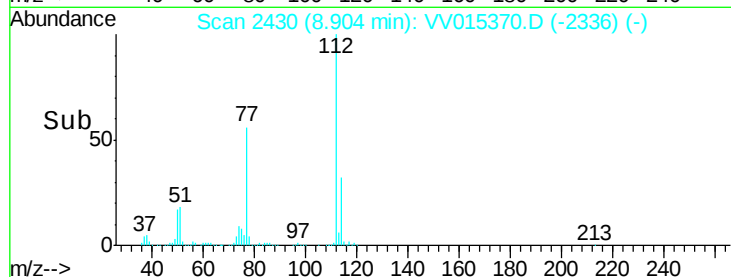
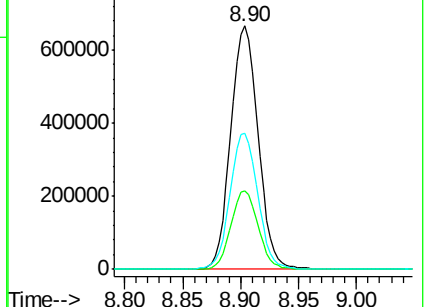
77 55.8 46.2 69.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 6.322 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV015370.D

Acq: 02 Apr 2020 13:35

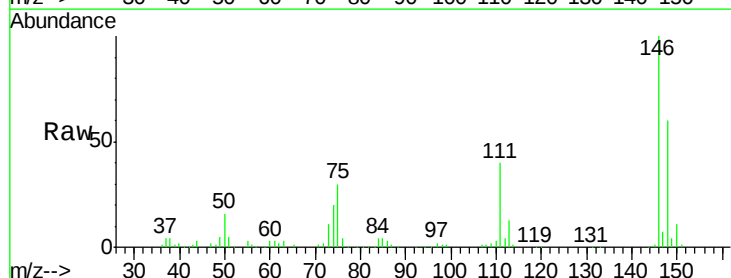
Tgt Ion:146 Resp: 68870

Ion Ratio Lower Upper

146 100

111 39.6 30.2 56.2

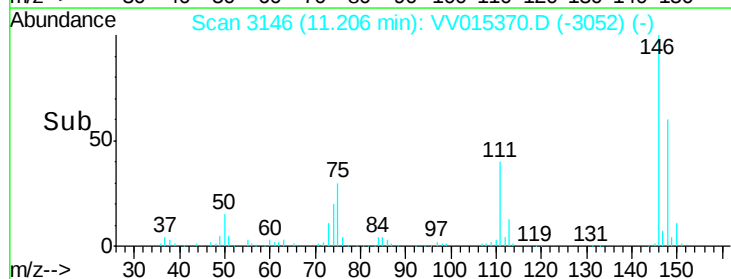
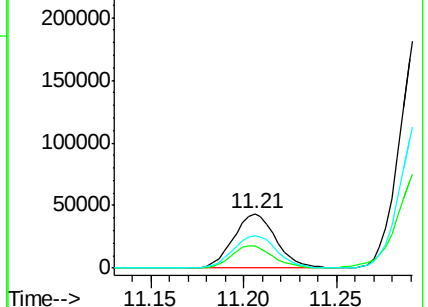
148 60.2 44.7 83.1

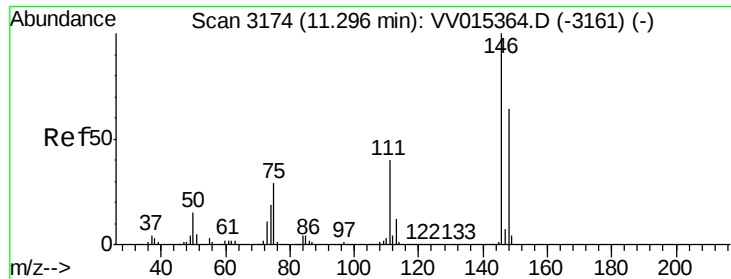


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 27.582 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV015370.D

Acq: 02 Apr 2020 13:35

Instrument :

MSVOA\_V

ClientSampleId :

C0DE2

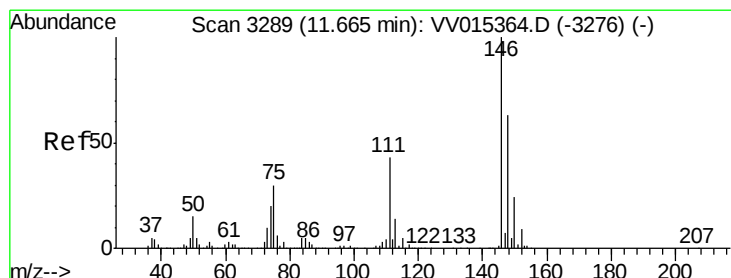
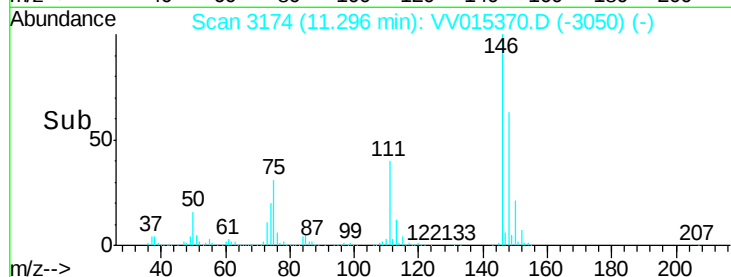
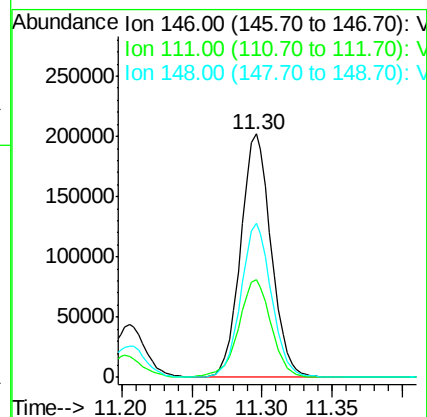
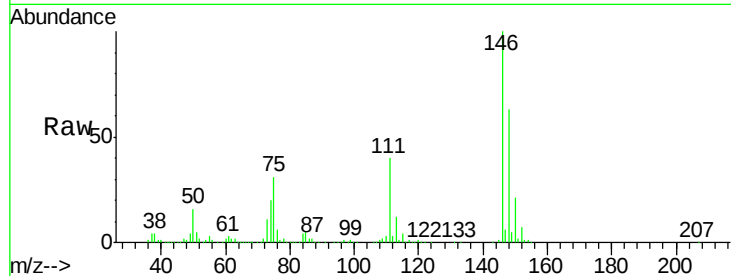
Tot Ion:146 Resp: 304738

Ion Ratio Lower Upper

146 100

111 40.0 29.3 54.5

148 63.1 44.7 82.9



#65

1,2-Dichlorobenzene

Concen: 145.678 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV015370.D

Acq: 02 Apr 2020 13:35

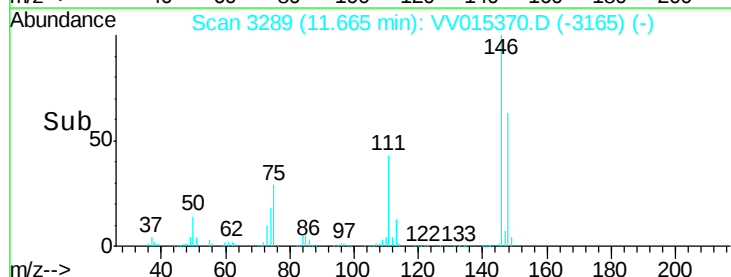
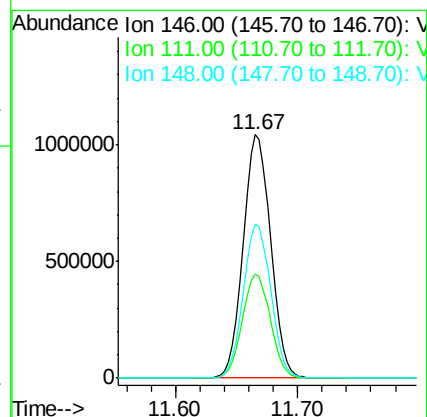
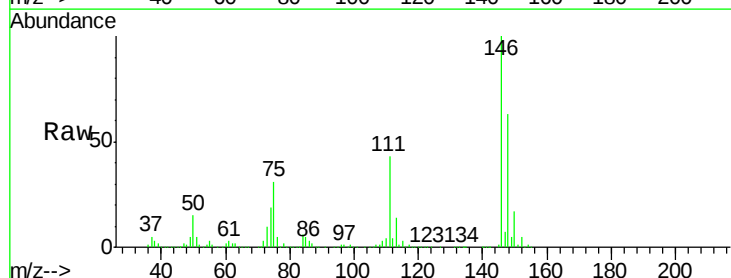
Tgt Ion:146 Resp: 1618656

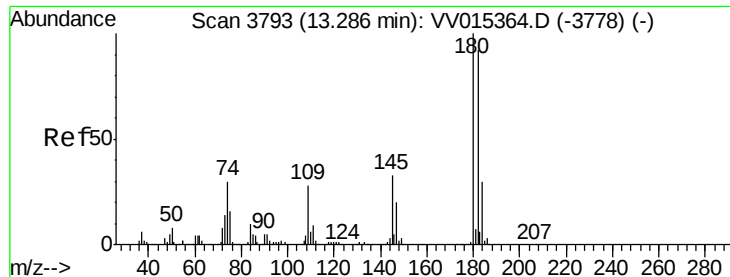
Ion Ratio Lower Upper

146 100

111 42.9 35.1 52.7

148 63.3 51.0 76.4

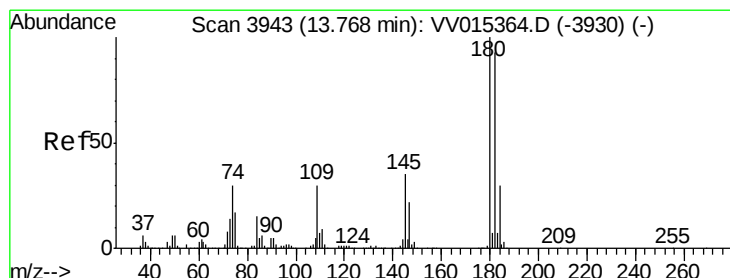
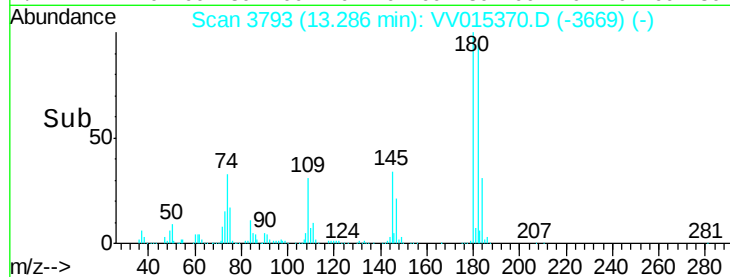
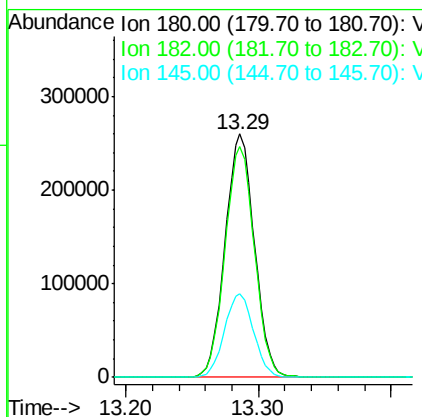
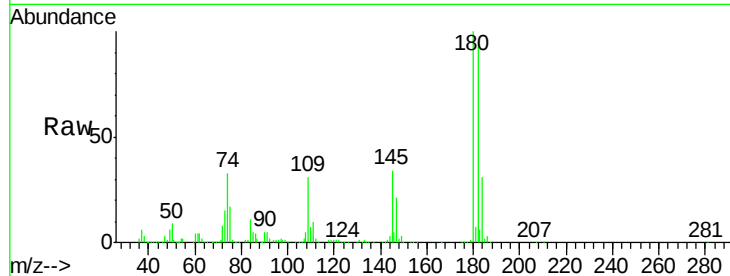




#68  
 1,2,4-trichlorobenzene  
 Concen: 60.708 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV015370.D  
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Tot Ion:180 Resp: 400349  
 Ion Ratio Lower Upper  
 180 100  
 182 94.9 75.8 113.8  
 145 34.0 27.7 41.5



#70  
 1,2,3-Trichlorobenzene  
 Concen: 12.454 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015370.D  
 Acq: 02 Apr 2020 13:35

Tgt Ion:180 Resp: 84601  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 76.1 114.1  
 145 35.4 28.2 42.4

