

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041520\  
 Data File : VV015521.D  
 Acq On : 15 Apr 2020 20:15  
 Operator : SY/MD  
 Sample : L2274-22MS  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 16 00:46:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 16 00:42:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 105874   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 99818    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 49087    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 27706    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 100.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 25855    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 102.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 59268    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 102.40% |
| 20) 2-Butanone-d5              | 3.92   | 46    | 76818    | 49.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.60%  |
| 24) Chloroform-d               | 4.38   | 84    | 56773    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32203    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 32) Benzene-d6                 | 5.08   | 84    | 114039   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.00% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 35767    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.80% |
| 41) Toluene-d8                 | 7.34   | 98    | 103320   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 13766    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.80%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 59596    | 41.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 82.40%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 23147    | 4.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 38153    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.80%  |

## Target Compounds

| Target Compounds              | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene        | 2.13 | 96   | 32678    | 4.917 | ug/L   | 95     |
| 13) Acetone                   | 2.20 | 43   | 7639     | 7.010 | ug/L # | 59     |
| 15) Methyl Acetate            | 2.20 | 43   | 7543     | 2.339 | ug/L # | 57     |
| 25) Chloroform                | 4.40 | 83   | 2218     | 0.154 | ug/L   | 95     |
| 27) 1,2-Dichloroethane        | 5.13 | 62   | 1515     | 0.162 | ug/L # | 77     |
| 33) Benzene                   | 5.13 | 78   | 155075   | 5.191 | ug/L   | 100    |
| 34) Trichloroethene           | 5.94 | 95   | 41703    | 5.186 | ug/L   | 99     |
| 35) Methylcyclohexane         | 6.10 | 83   | 8869     | 0.655 | ug/L # | 16     |
| 37) 1,2-Dichloropropane       | 6.10 | 63   | 4211     | 0.568 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.01 | 75   | 1035     | 0.091 | ug/L # | 75     |
| 42) Toluene                   | 7.41 | 91   | 163848   | 5.052 | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene | 7.65 | 75   | 537      | 0.056 | ug/L # | 81     |
| 47) Tetrachloroethene         | 8.00 | 164  | 10376    | 1.742 | ug/L   | 96     |
| 48) 2-Hexanone                | 8.11 | 43   | 8270     | 2.433 | ug/L # | 85     |
| 49) Dibromochloromethane      | 8.00 | 129  | 10228    | 1.714 | ug/L # | 10     |
| 51) Chlorobenzene             | 8.90 | 112  | 105315   | 5.094 | ug/L   | 99     |

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ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 16 00:46:19 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Apr 16 00:42:12 2020  
Response via : Initial Calibration

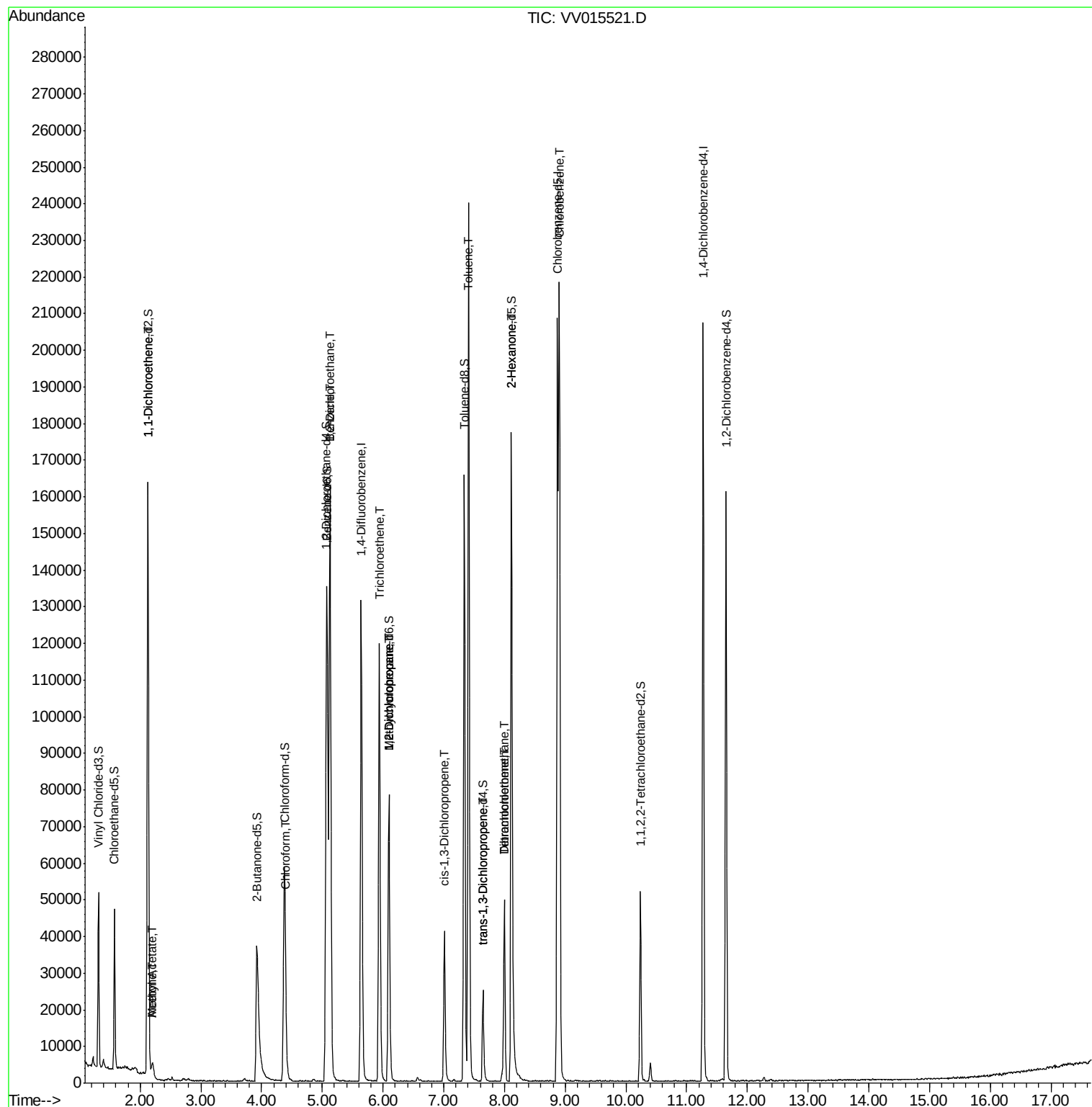
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

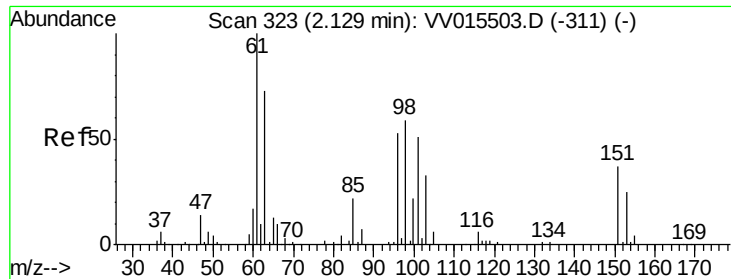
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV041520\  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Apr 16 00:42:12 2020  
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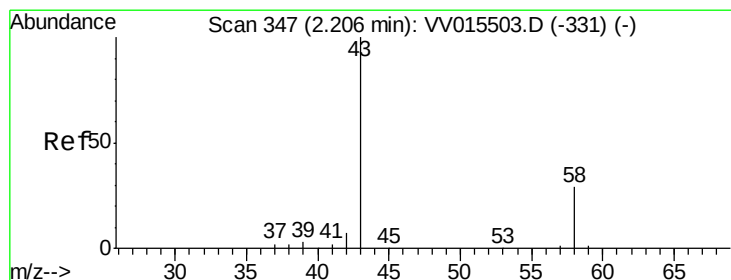
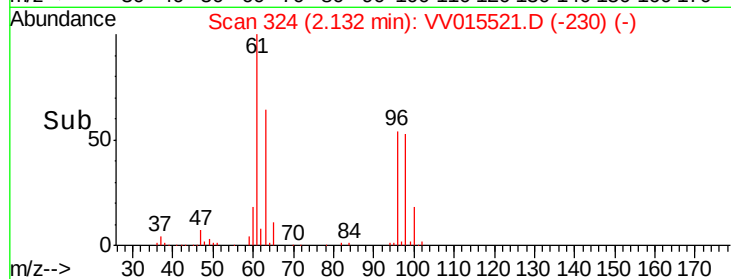
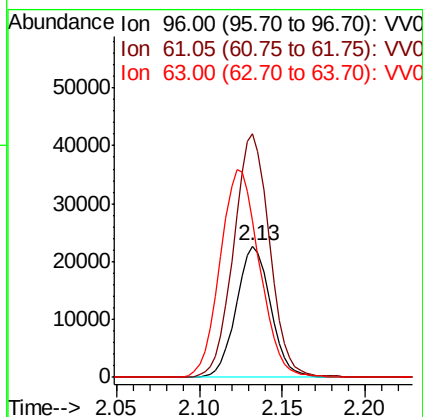
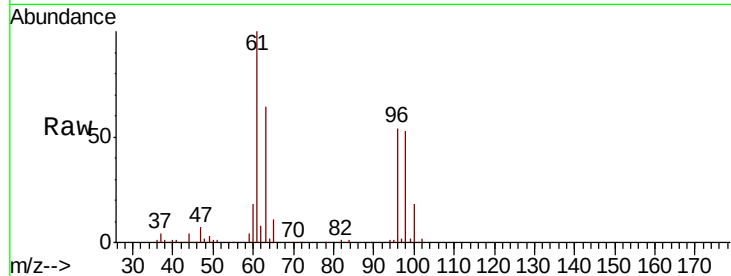




#12  
 1,1-Dichloroethene  
 Concen: 4.917 ug/L  
 RT: 2.13 min Scan# 324  
 Delta R.T. 0.00 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

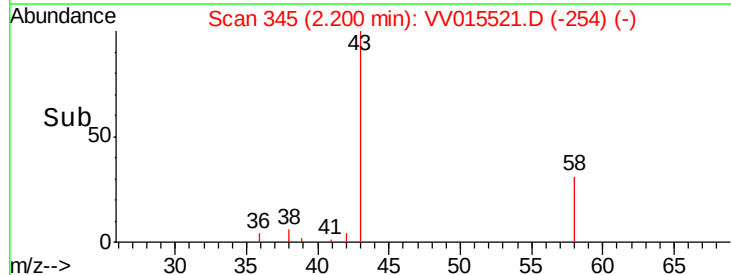
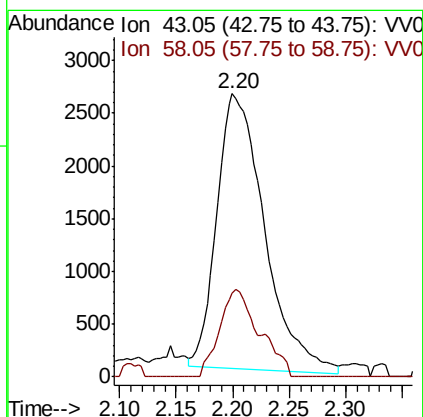
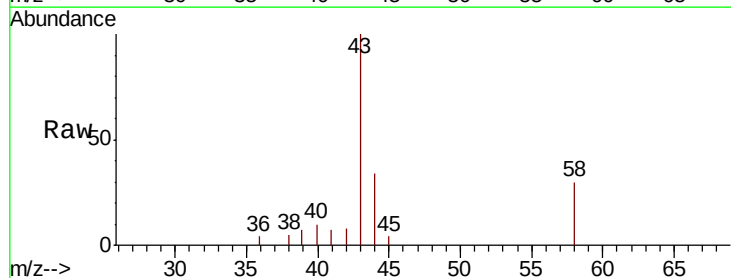
Instrument :  
 MSVOA\_V  
 ClientSampled :

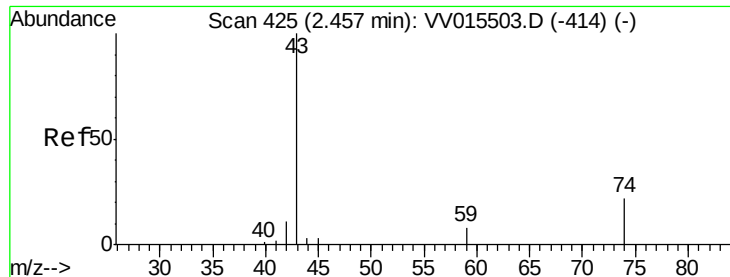
Tot Ion: 96 Resp: 32678  
 Ion Ratio Lower Upper  
 96 100  
 61 185.3 127.7 237.1  
 63 118.8 75.1 139.5



#13  
 Acetone  
 Concen: 7.010 ug/L  
 RT: 2.20 min Scan# 345  
 Delta R.T. -0.01 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

Tgt Ion: 43 Resp: 7639  
 Ion Ratio Lower Upper  
 43 100  
 58 26.6 0.0 22.2#

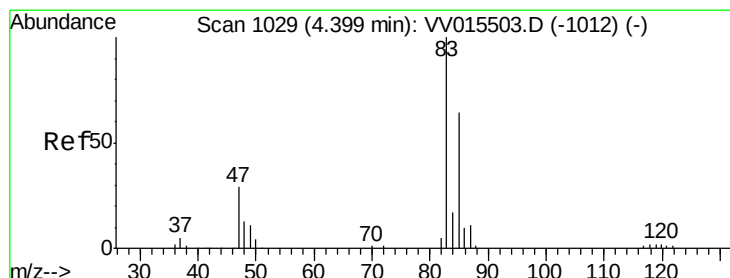
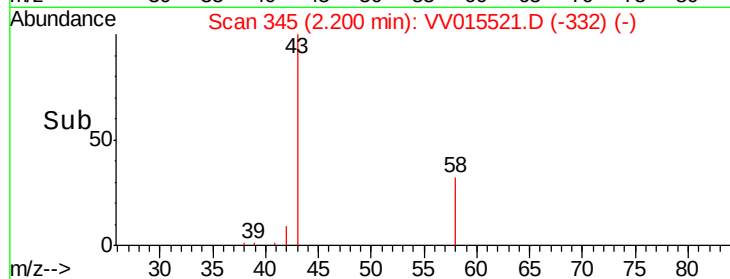
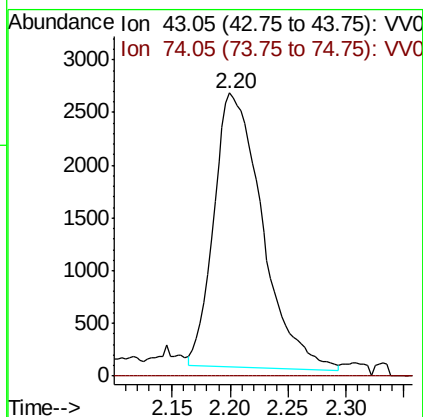
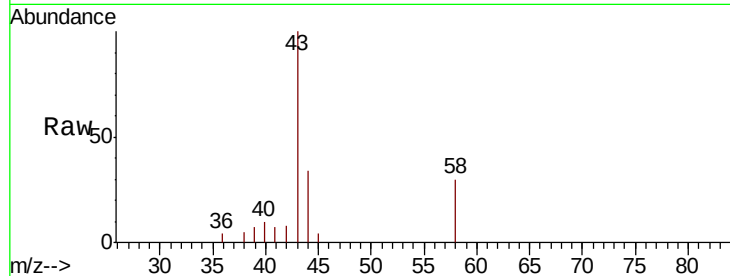




#15  
Methvl Acetate  
Concen: 2.339 ug/L  
RT: 2.20 min Scan# 345  
Delta R.T. -0.26 min  
Lab File: VV015521.D  
Acq: 15 Apr 2020 20:15

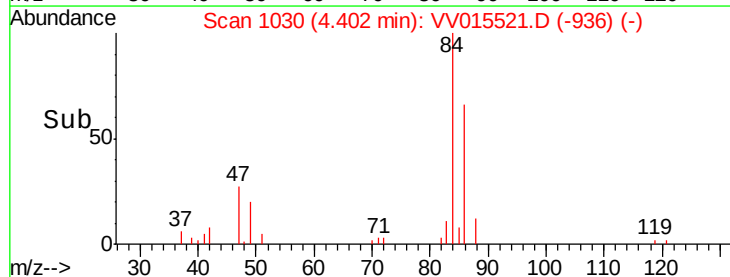
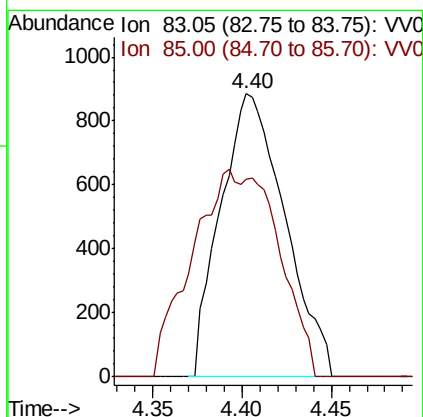
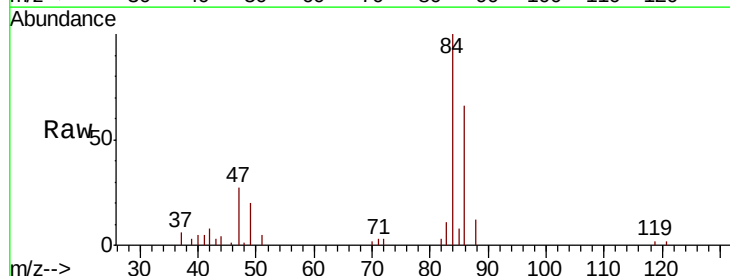
Instrument :  
MSVOA\_V  
ClientSampled :

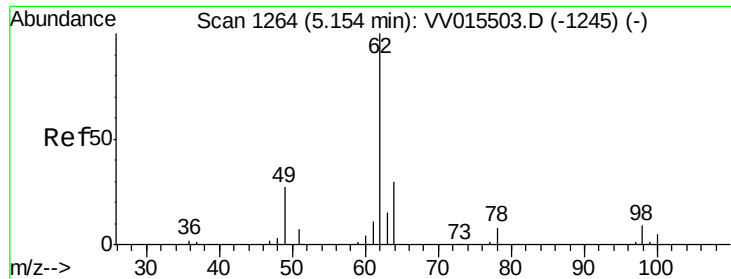
Tot Ion: 43 Resp: 7543  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.4 23.2#



#25  
Chloroform  
Concen: 0.154 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: VV015521.D  
Acq: 15 Apr 2020 20:15

Tgt Ion: 83 Resp: 2218  
Ion Ratio Lower Upper  
83 100  
85 69.7 45.9 85.3

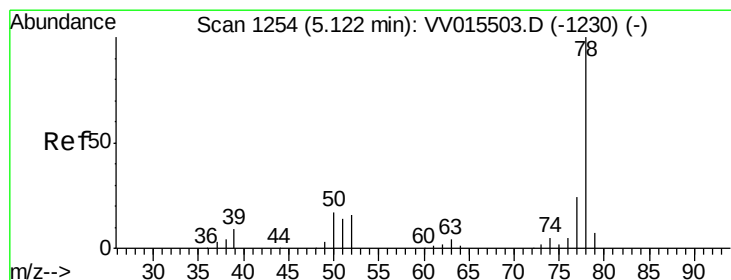
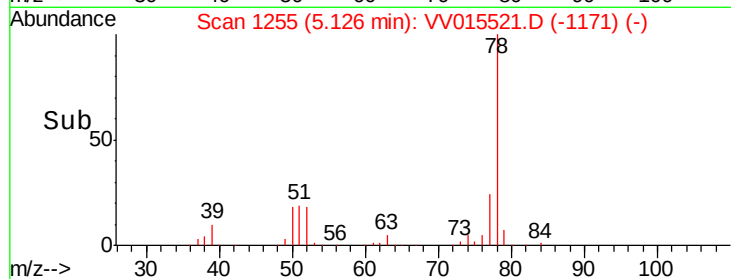
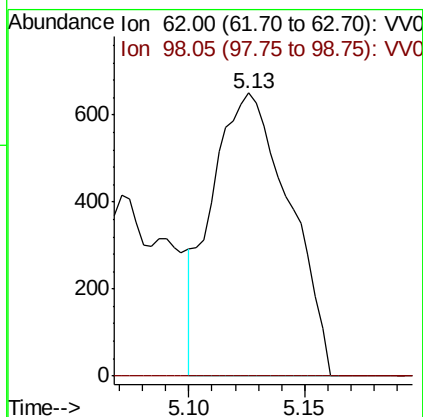
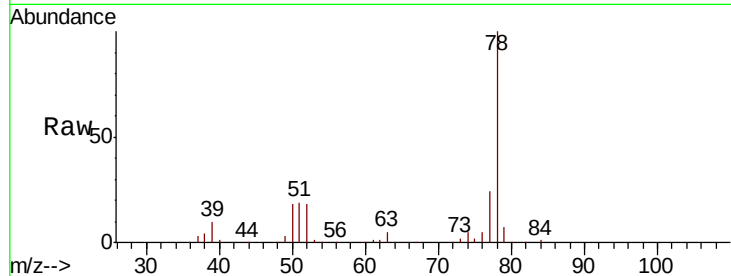




#27  
 1,2-Dichloroethane  
 Concen: 0.162 ug/L  
 RT: 5.13 min Scan# 1255  
 Delta R.T. -0.03 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

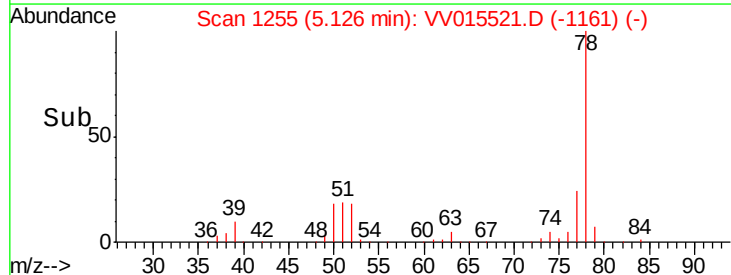
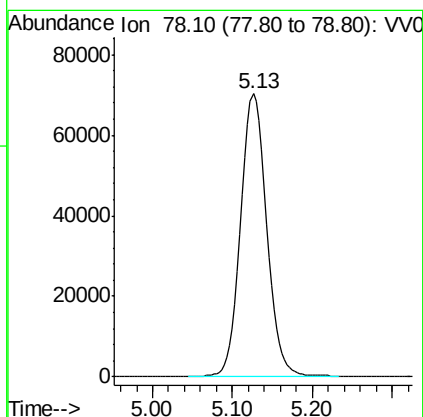
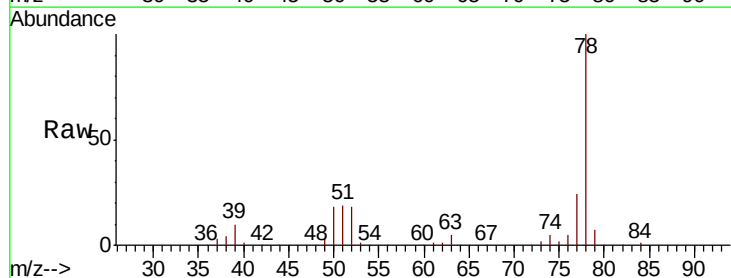
Instrument :  
 MSVOA\_V  
 ClientSampleId :

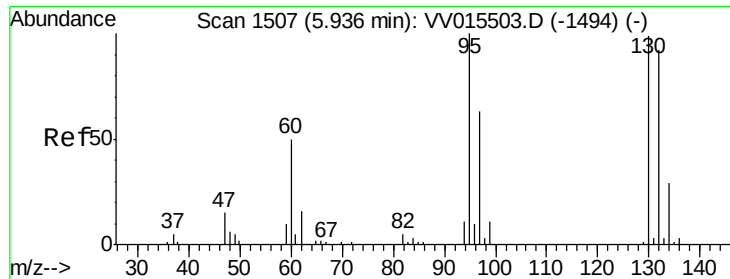
Tot Ion: 62 Resp: 1515  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.6 10.0#



#33  
 Benzene  
 Concen: 5.191 ug/L  
 RT: 5.13 min Scan# 1255  
 Delta R.T. 0.00 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

Tgt Ion: 78 Resp: 155075

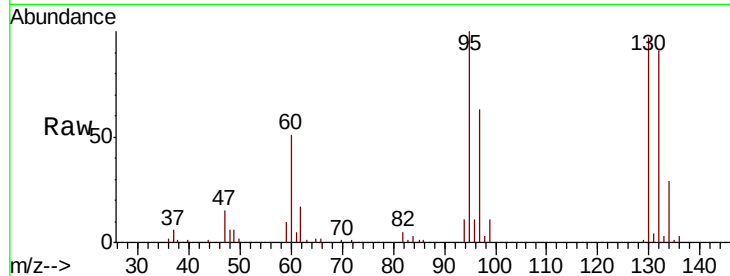




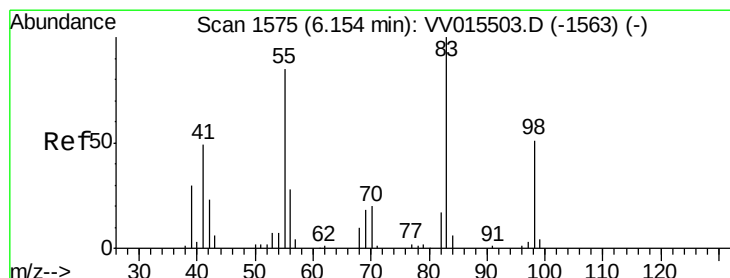
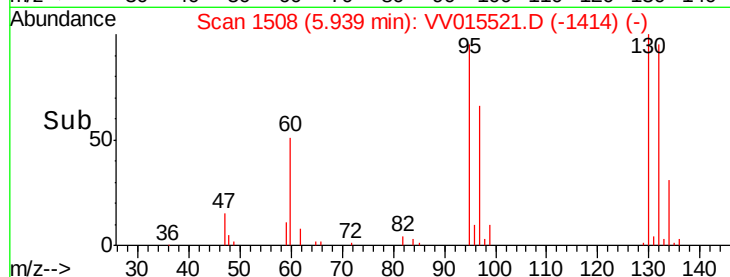
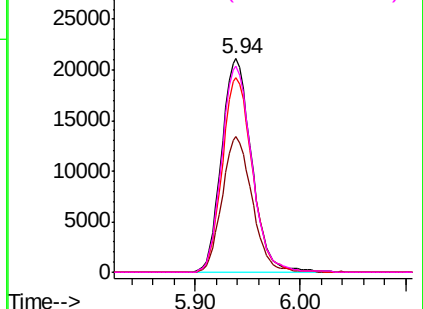
#34  
 Trichloroethene  
 Concen: 5.186 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.00 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 95 Resp: 41703  
 Ion Ratio Lower Upper  
 95 100  
 97 63.4 45.4 84.4  
 132 91.4 64.8 120.4  
 130 96.6 67.4 125.2

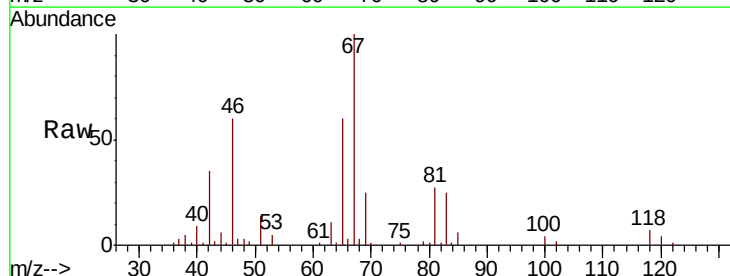


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

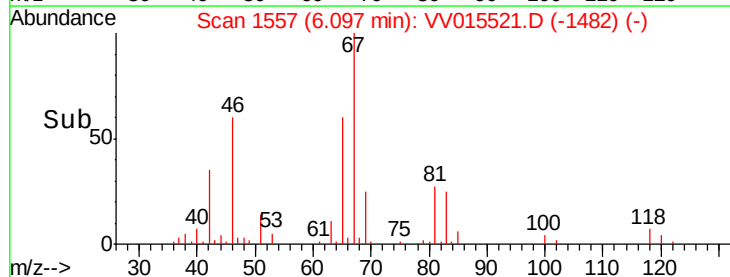
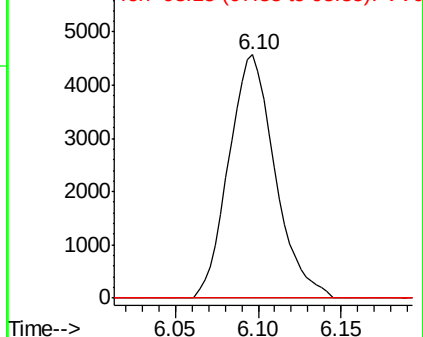


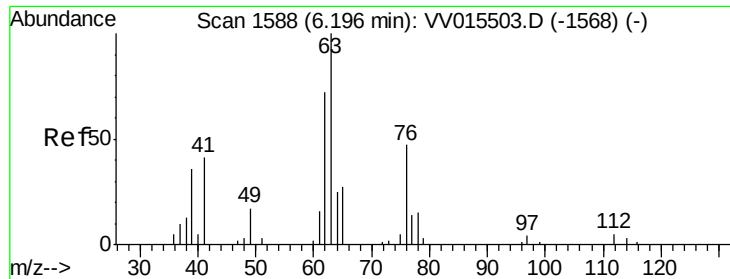
#35  
 Methylcyclohexane  
 Concen: 0.655 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.06 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

Tgt Ion: 83 Resp: 8869  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 66.6 99.8#  
 98 0.6 38.7 58.1#



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

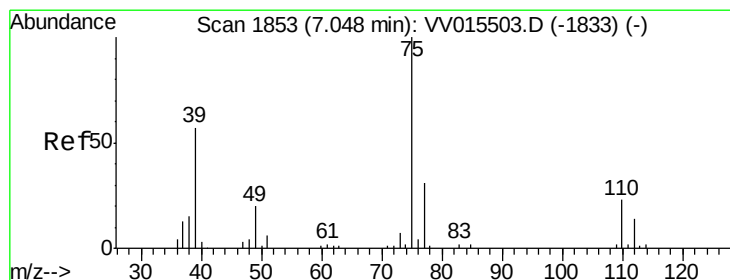
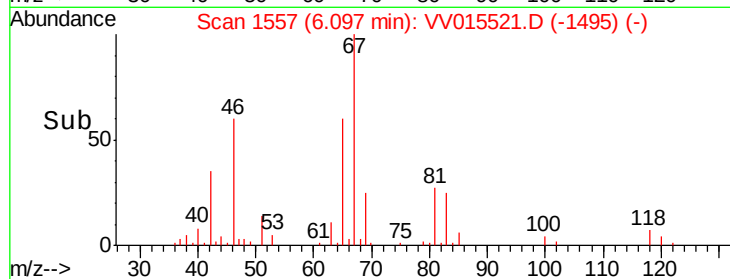
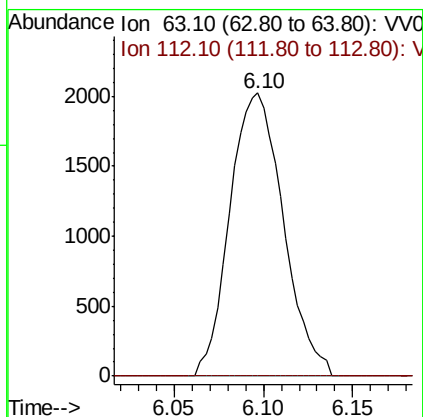
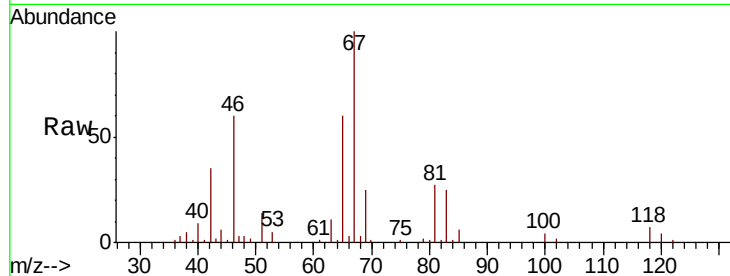




#37  
 1,2-Dichloropropane  
 Concen: 0.568 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.10 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

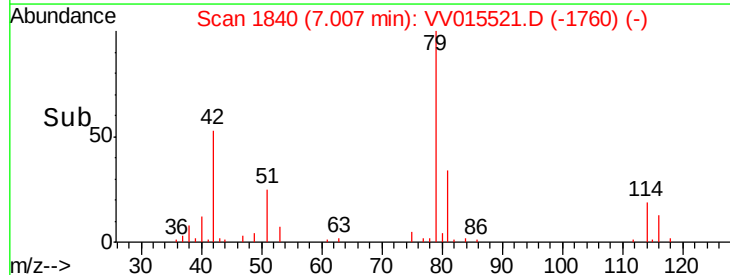
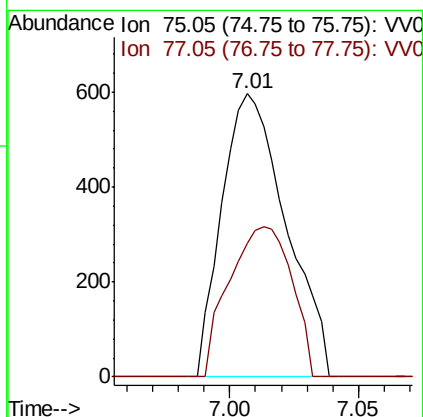
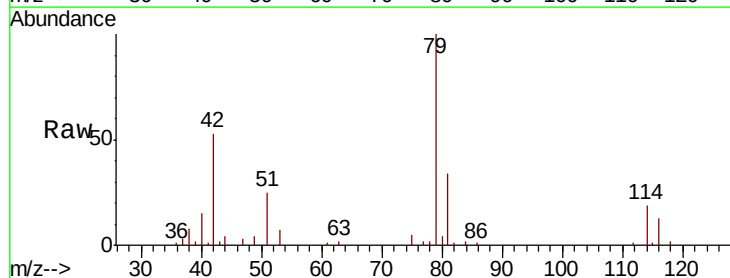
Instrument :  
 MSVOA\_V  
 ClientSampled :

Tot Ion: 63 Resp: 4211  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.6 5.4#

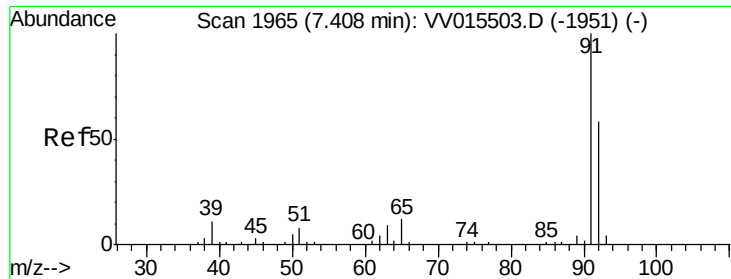


#39  
 cis-1,3-Dichloropropene  
 Concen: 0.091 ug/L  
 RT: 7.01 min Scan# 1840  
 Delta R.T. -0.04 min  
 Lab File: VV015521.D  
 Acq: 15 Apr 2020 20:15

Tgt Ion: 75 Resp: 1035  
 Ion Ratio Lower Upper  
 75 100  
 77 47.1 23.0 42.6#







#42

Toluene

Concen: 5.052 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV015521.D

Acq: 15 Apr 2020 20:15

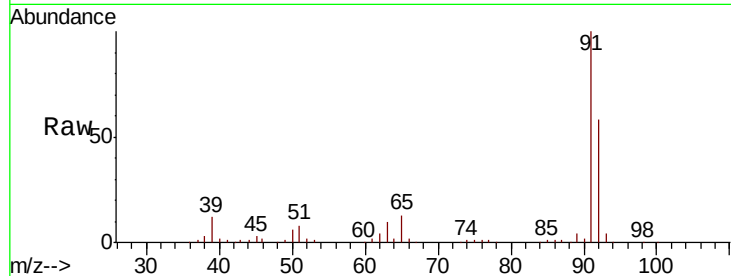
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 163848

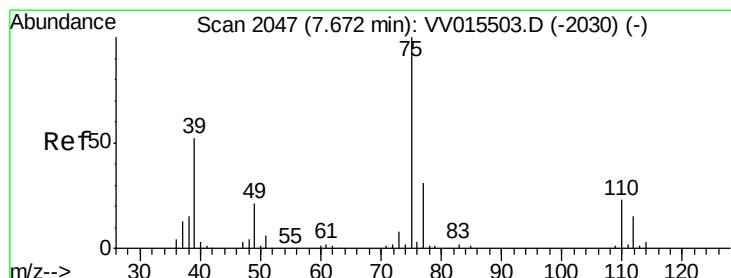
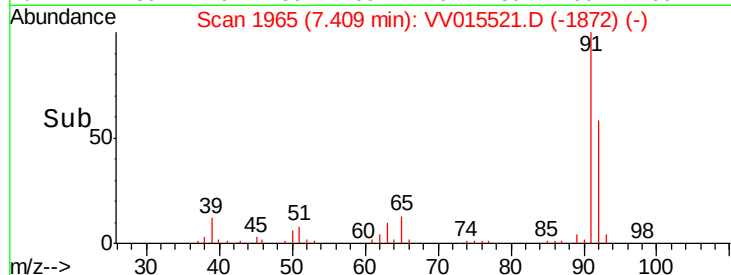
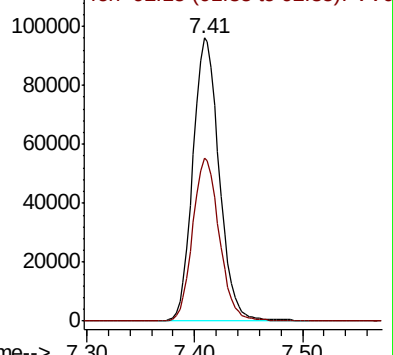
Ion Ratio Lower Upper

91 100

92 57.7 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV015503.D (-1951) (-)  
Ion 92.15 (91.85 to 92.85): VV015521.D (-1872) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.056 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015521.D

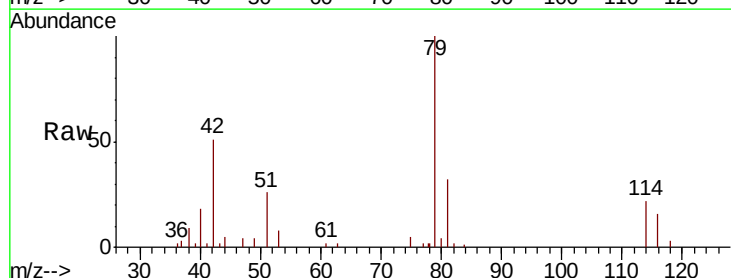
Acq: 15 Apr 2020 20:15

Tgt Ion: 75 Resp: 537

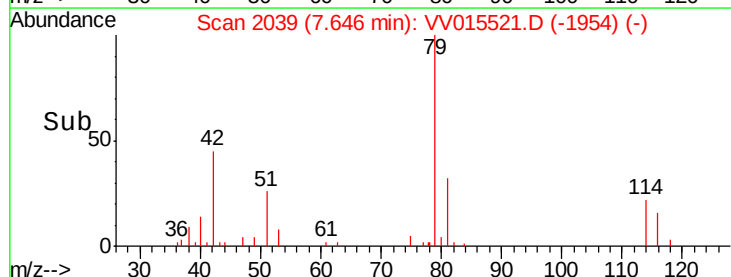
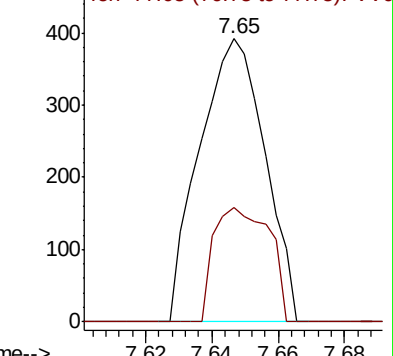
Ion Ratio Lower Upper

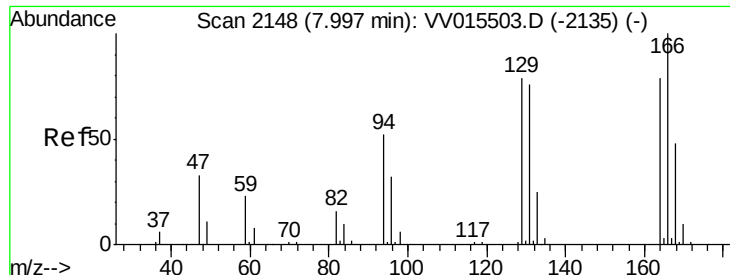
75 100

77 40.3 21.0 39.0#



Abundance Ion 75.05 (74.75 to 75.75): VV015503.D (-2030) (-)  
Ion 77.05 (76.75 to 77.75): VV015521.D (-1954) (-)





#47

Tetrachloroethene

Concen: 1.742 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015521.D

Acq: 15 Apr 2020 20:15

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 10376

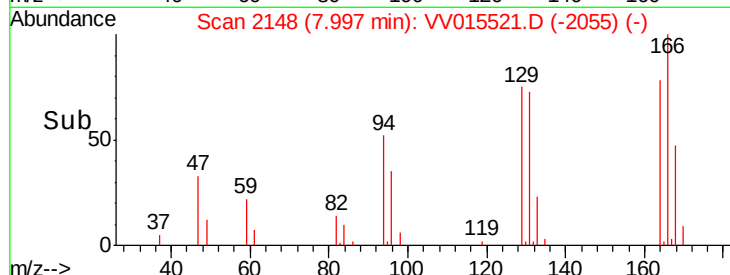
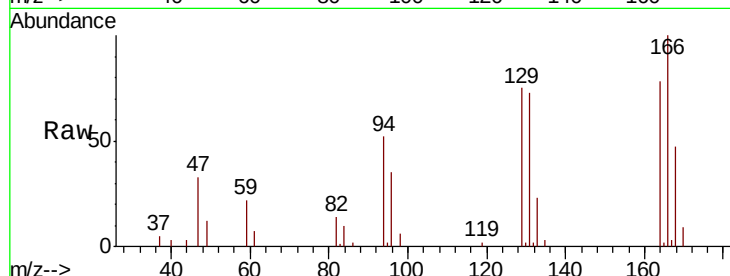
Ion Ratio Lower Upper

164 100

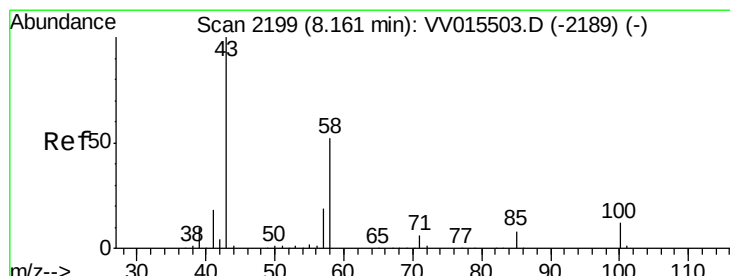
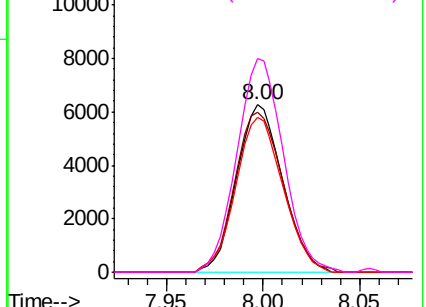
129 95.6 70.6 131.0

131 92.7 68.3 126.8

166 127.7 88.3 163.9



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: 2.433 ug/L

RT: 8.11 min Scan# 2184

Delta R.T. -0.05 min

Lab File: VV015521.D

Acq: 15 Apr 2020 20:15

Tgt Ion: 43 Resp: 8270

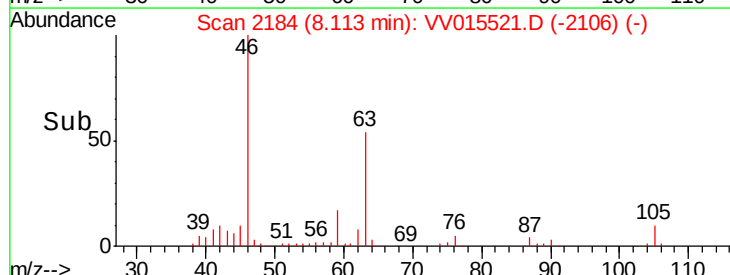
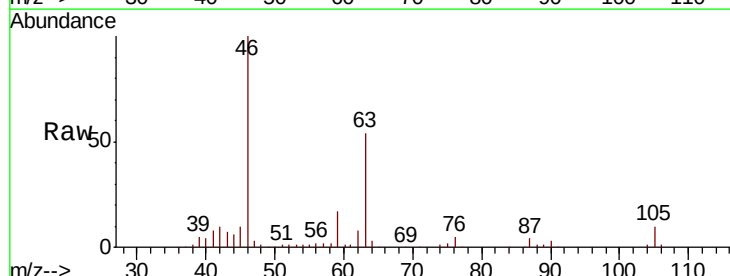
Ion Ratio Lower Upper

43 100

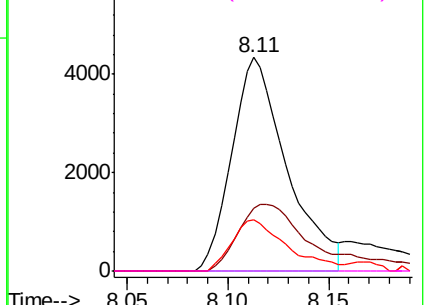
58 42.9 41.4 62.0

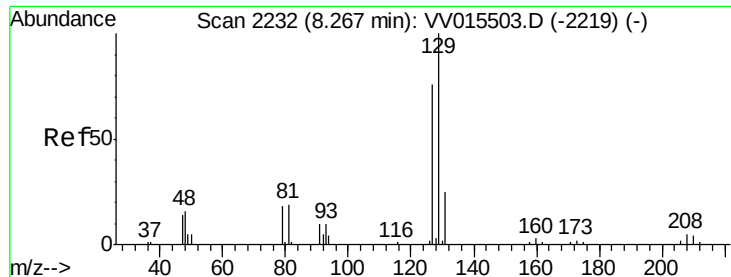
57 24.0 15.0 22.4#

100 0.0 9.4 14.2#



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: 1.714 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV015521.D

Acq: 15 Apr 2020 20:15

Instrument :

MSVOA\_V

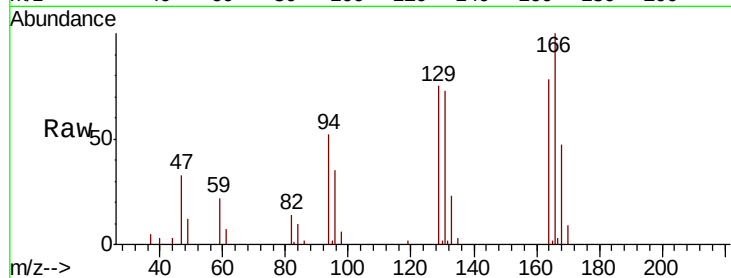
ClientSampleId :

Tot Ion:129 Resp: 10228

Ion Ratio Lower Upper

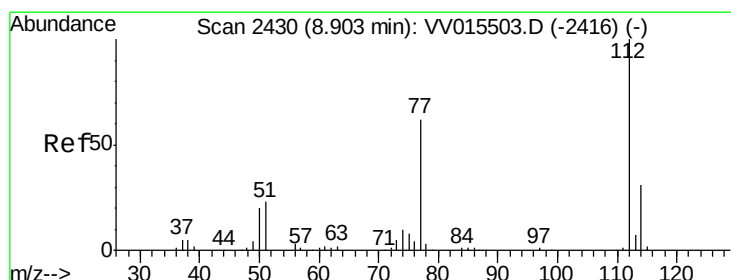
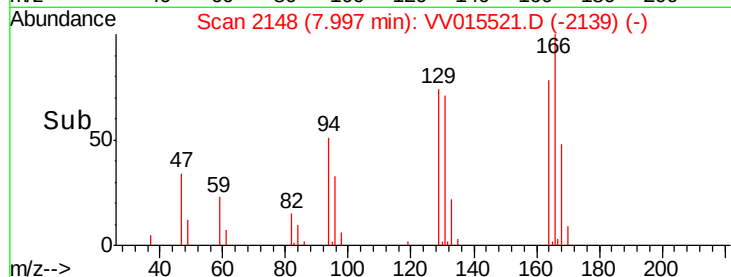
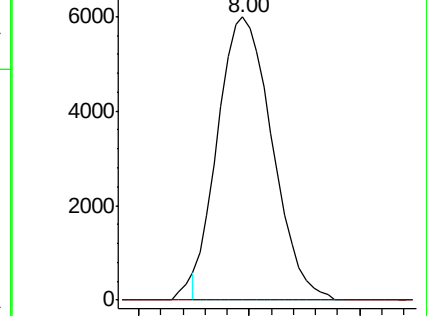
129 100

127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 5.094 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015521.D

Acq: 15 Apr 2020 20:15

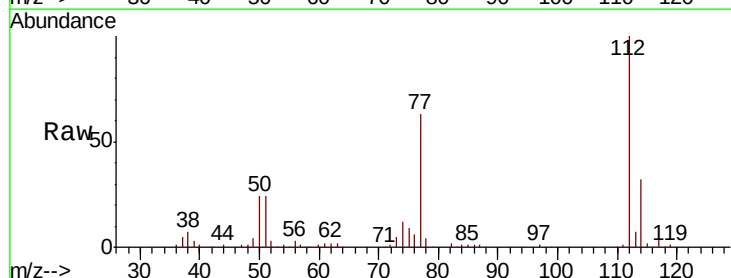
Tgt Ion:112 Resp: 105315

Ion Ratio Lower Upper

112 100

114 32.2 22.9 42.5

77 62.9 49.8 74.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

