

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\  
 Data File : VV016334.D  
 Acq On : 30 May 2020 01:05  
 Operator : SY/MD  
 Sample : L2826-07  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CWKC0

Quant Time: May 30 03:59:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat May 30 03:05:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 85424    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 77656    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 32838    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 25076    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 19892    | 4.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 82.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 39549    | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 76.80%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 70707    | 51.96    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.92% |
| 24) Chloroform-d               | 4.38   | 84    | 49899    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 27987    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.07   | 84    | 98672    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.60% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 30804    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 89966    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 9898     | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.20%  |
| 48) 2-Hexanone-d5              | 8.13   | 63    | 55512    | 54.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.12% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 20182    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.80%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 27156    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.00%  |

## Target Compounds

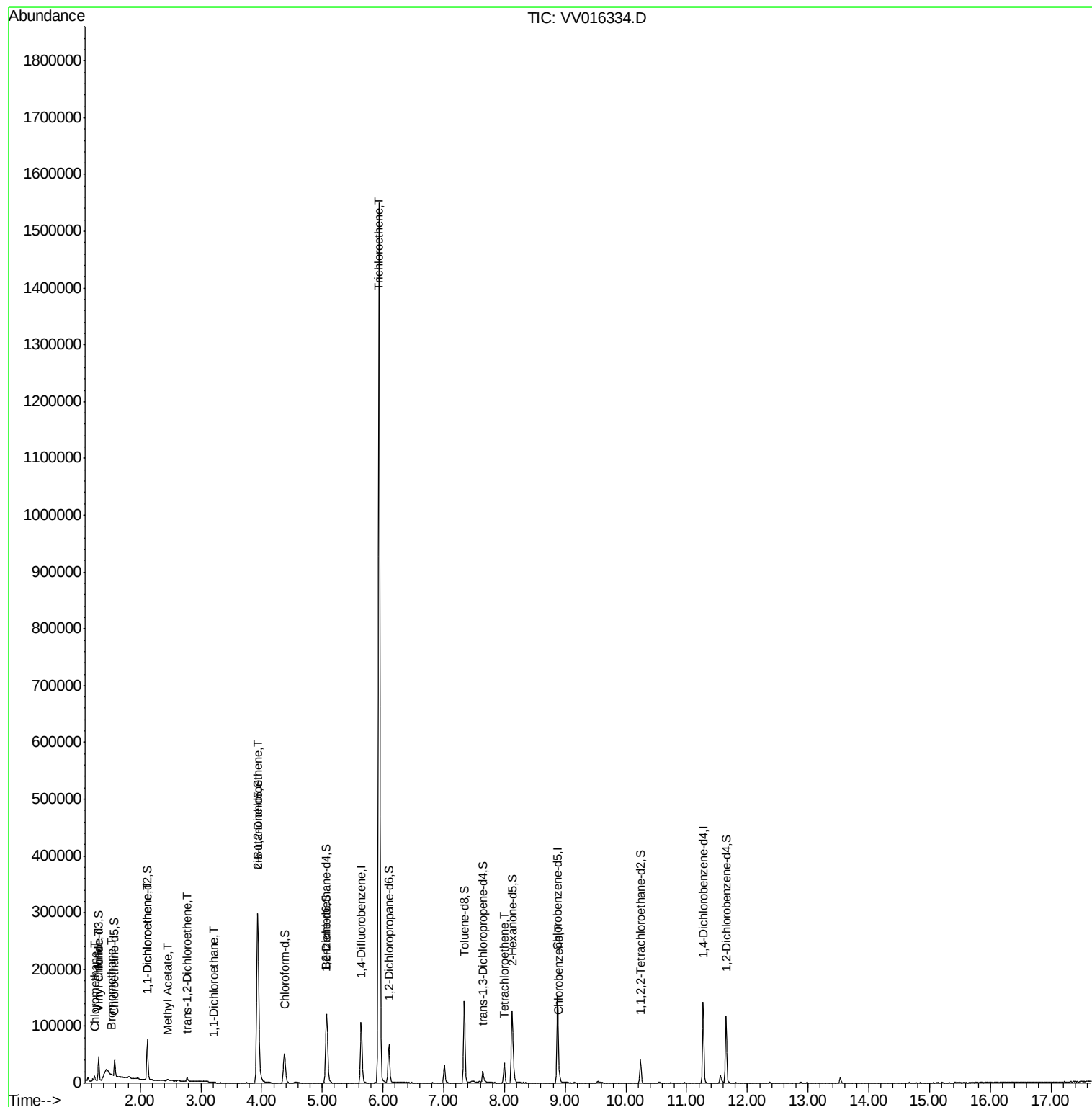
|                              |      |     |        |              | Ovalue |
|------------------------------|------|-----|--------|--------------|--------|
| 3) Chloromethane             | 1.25 | 50  | 5040   | 0.613 ug/L   | 99     |
| 5) Vinyl chloride            | 1.32 | 62  | 2265   | 0.303 ug/L # | 27     |
| 6) Bromomethane              | 1.53 | 94  | 618    | 0.147 ug/L   | 94     |
| 12) 1,1-Dichloroethene       | 2.13 | 96  | 2357   | 0.468 ug/L # | 1      |
| 15) Methyl Acetate           | 2.46 | 43  | 3604   | 1.674 ug/L # | 86     |
| 18) trans-1,2-Dichloroethene | 2.78 | 96  | 1888   | 0.342 ug/L   | 90     |
| 19) 1,1-Dichloroethane       | 3.21 | 63  | 1373   | 0.131 ug/L # | 88     |
| 22) cis-1,2-Dichloroethene   | 3.94 | 96  | 144048 | 22.089 ug/L  | 97     |
| 34) Trichloroethene          | 5.94 | 95  | 524315 | 90.063 ug/L  | 98     |
| 49) Tetrachloroethene        | 8.00 | 164 | 7033   | 1.683 ug/L   | 96     |
| 53) Chlorobenzene            | 8.90 | 112 | 5601   | 0.372 ug/L   | 97     |

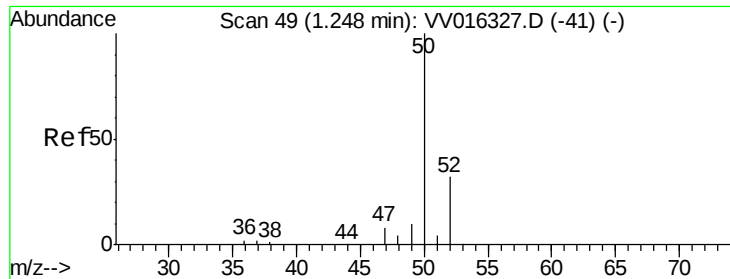
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
CWKC0

Quant Time: May 30 03:59:27 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat May 30 03:05:25 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.613 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA\_V

ClientSampled :

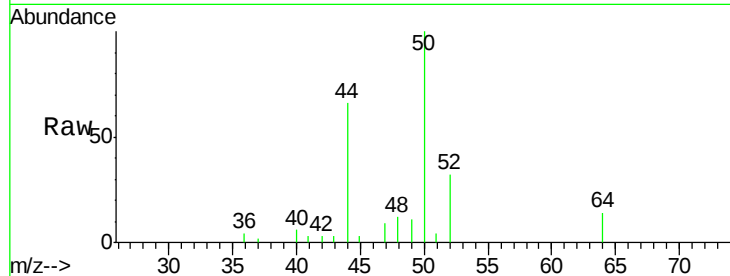
CWKC0

Tot Ion: 50 Resp: 5040

Ion Ratio Lower Upper

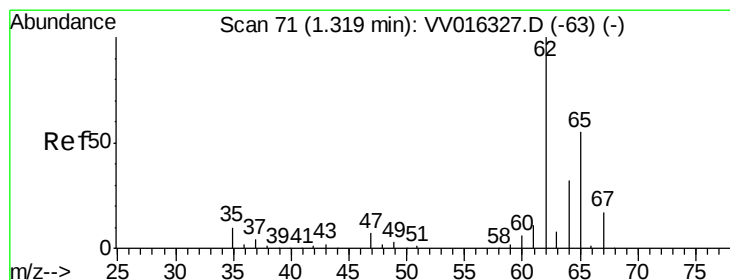
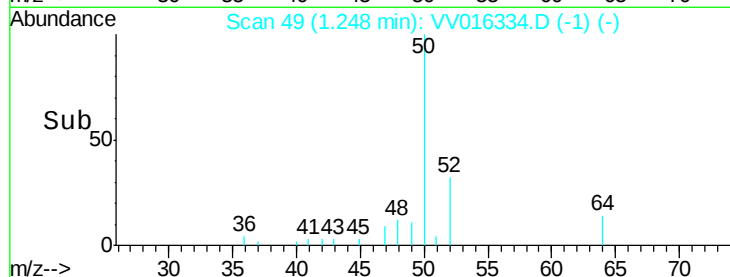
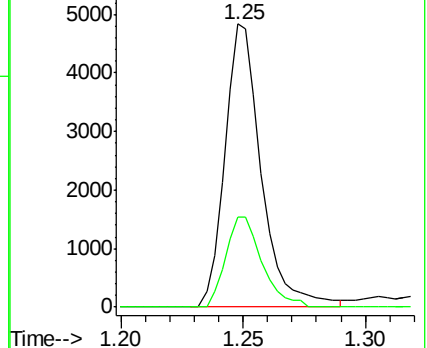
50 100

52 31.9 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.303 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016334.D

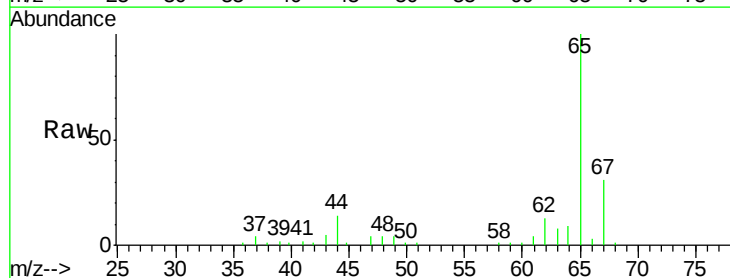
Acq: 30 May 2020 01:05

Tgt Ion: 62 Resp: 2265

Ion Ratio Lower Upper

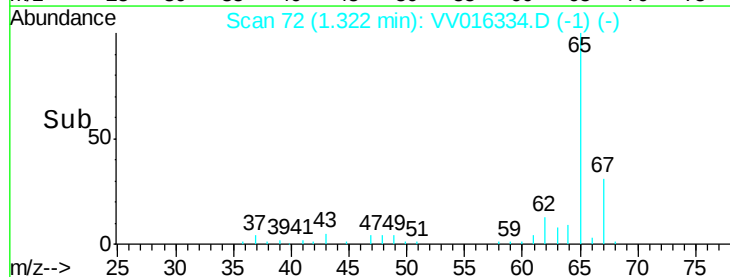
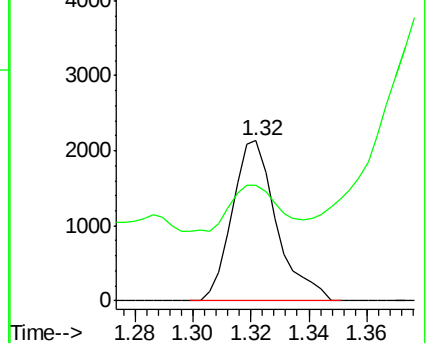
62 100

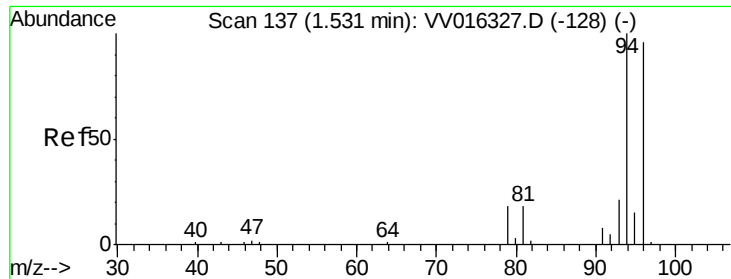
64 72.2 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

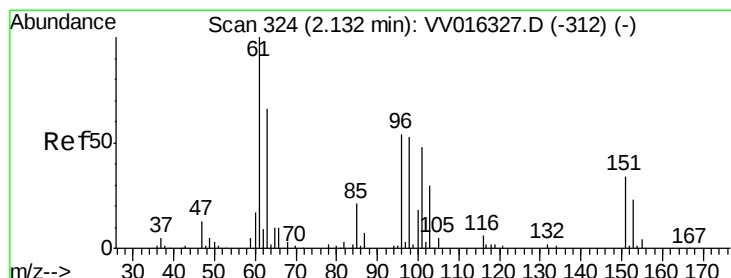
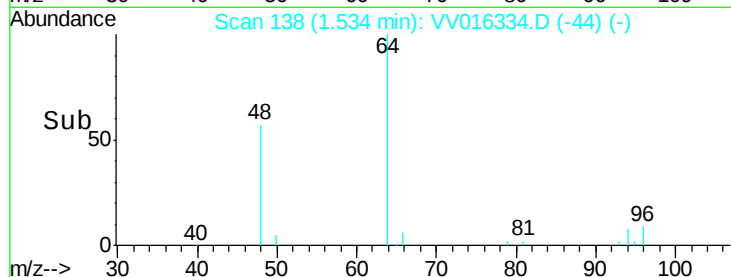
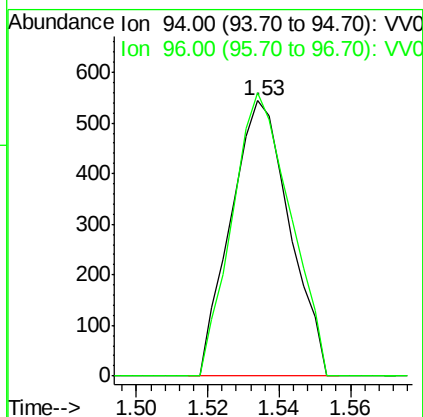
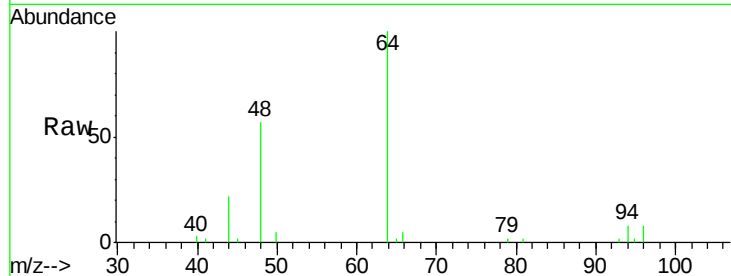




#6  
Bromomethane  
Concen: 0.147 ug/L  
RT: 1.53 min Scan# 138  
Delta R.T. 0.00 min  
Lab File: VV016334.D  
Acq: 30 May 2020 01:05

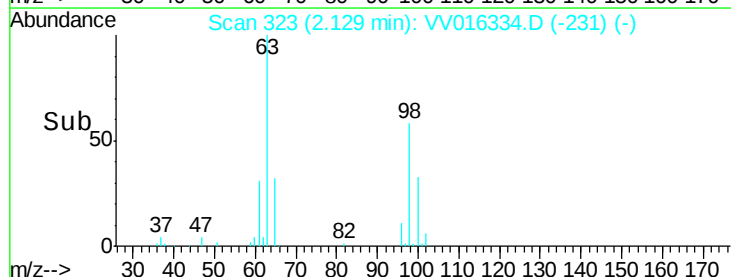
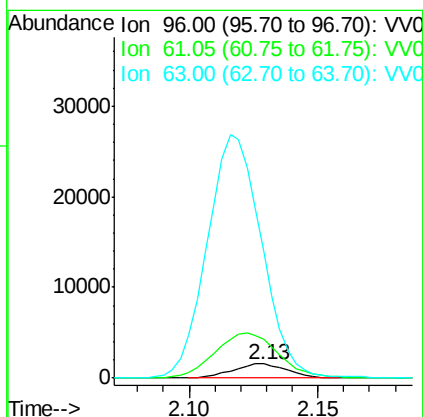
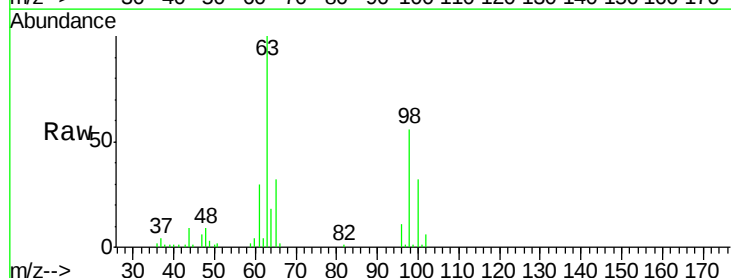
Instrument :  
MSVOA\_V  
ClientSampled :  
CWKC0

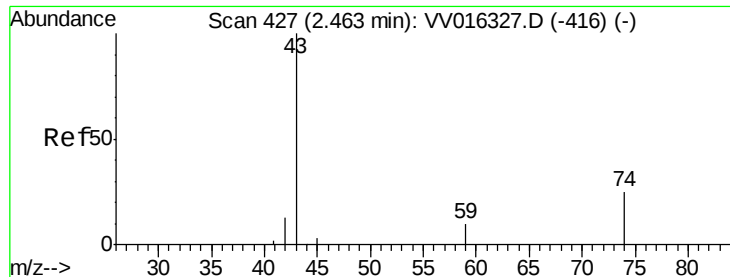
Tot Ion: 94 Resp: 618  
Ion Ratio Lower Upper  
94 100  
96 102.8 67.7 125.7



#12  
1,1-Dichloroethene  
Concen: 0.468 ug/L  
RT: 2.13 min Scan# 323  
Delta R.T. -0.00 min  
Lab File: VV016334.D  
Acq: 30 May 2020 01:05

Tgt Ion: 96 Resp: 2357  
Ion Ratio Lower Upper  
96 100  
61 274.7 124.9 231.9#  
63 903.3 80.4 149.2#

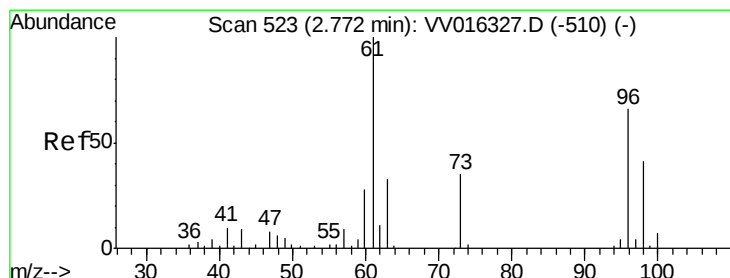
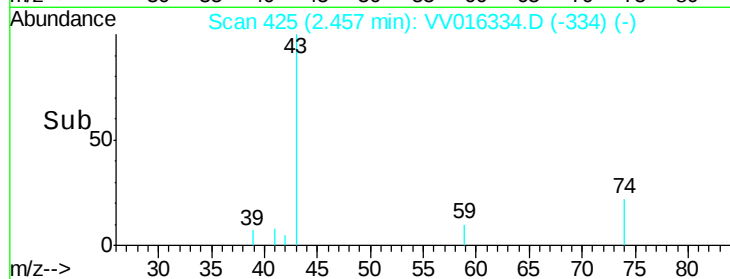
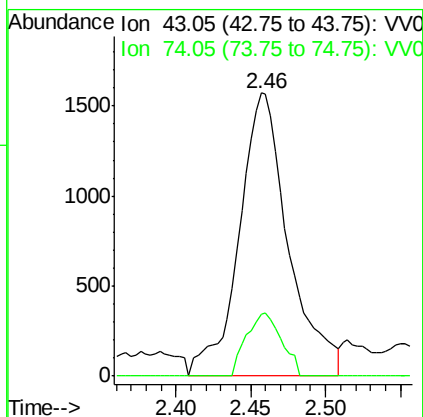
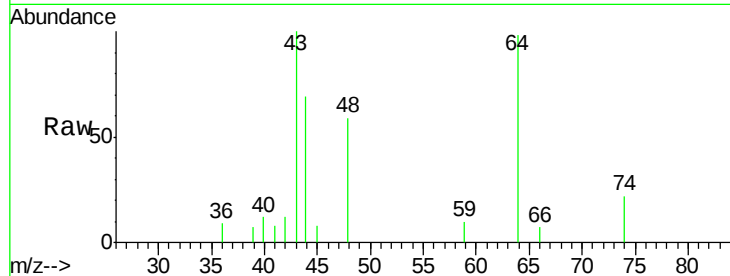




#15  
Methvl Acetate  
Concen: 1.674 ug/L  
RT: 2.46 min Scan# 425  
Delta R.T. -0.01 min  
Lab File: VV016334.D  
Acq: 30 May 2020 01:05

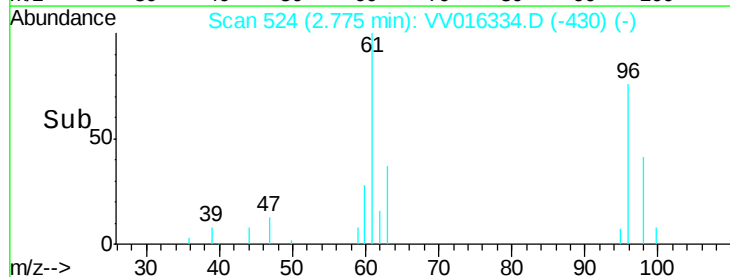
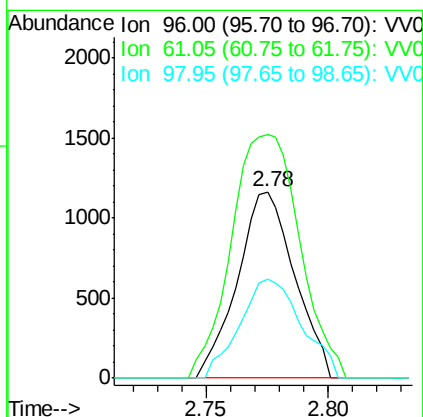
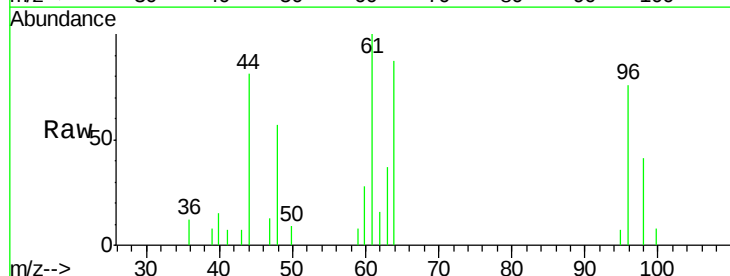
Instrument :  
MSVOA\_V  
ClientSampled :  
CWKC0

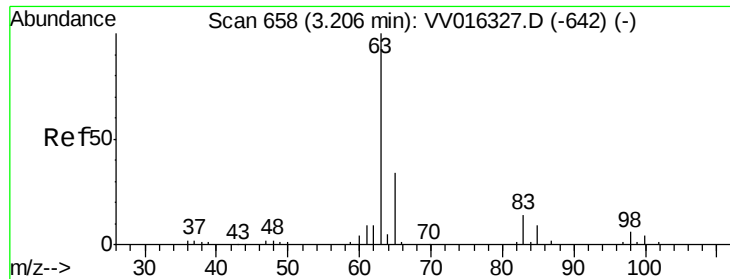
Tot Ion: 43 Resp: 3604  
Ion Ratio Lower Upper  
43 100  
74 15.9 18.1 27.1#



#18  
trans-1,2-Dichloroethene  
Concen: 0.342 ug/L  
RT: 2.78 min Scan# 524  
Delta R.T. 0.00 min  
Lab File: VV016334.D  
Acq: 30 May 2020 01:05

Tgt Ion: 96 Resp: 1888  
Ion Ratio Lower Upper  
96 100  
61 130.8 99.8 185.4  
98 53.2 44.0 81.6

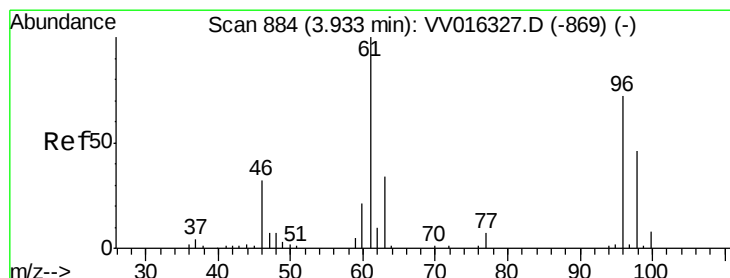
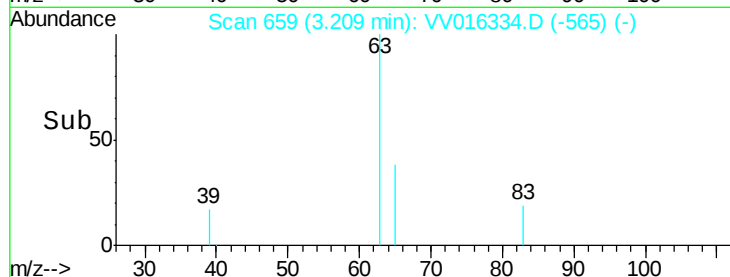
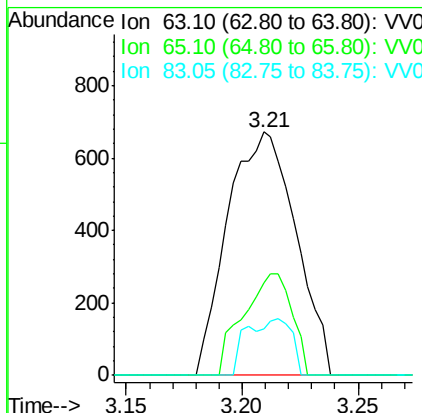
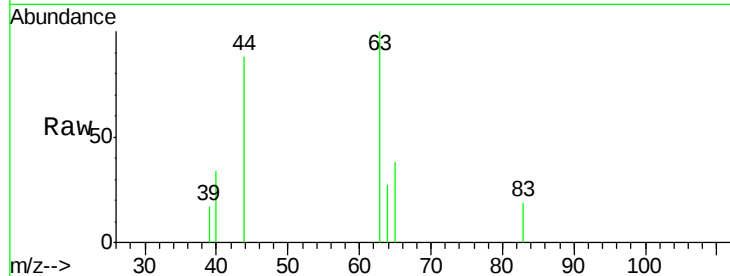




#19  
 1,1-Dichloroethane  
 Concen: 0.131 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VV016334.D  
 Acq: 30 May 2020 01:05

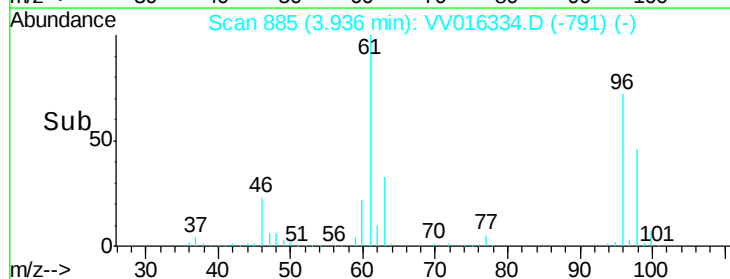
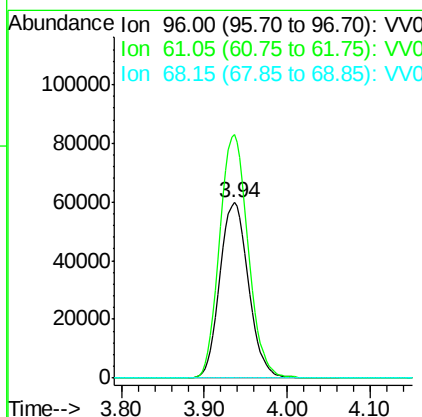
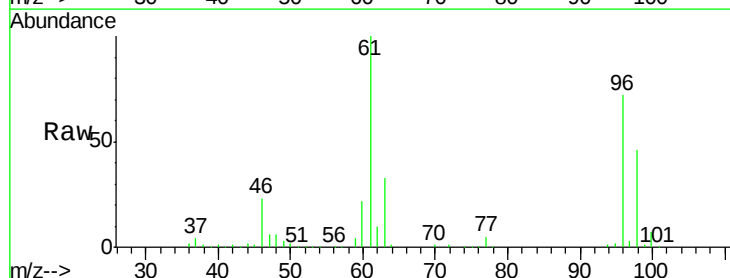
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 CWKC0

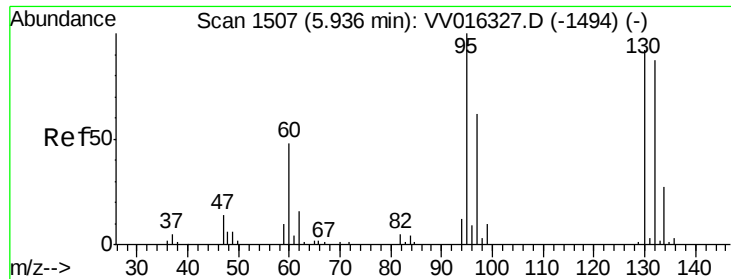
Tot Ion: 63 Resp: 1373  
 Ion Ratio Lower Upper  
 63 100  
 65 37.8 22.3 41.5  
 83 18.9 9.4 17.4#



#22  
 cis-1,2-Dichloroethene  
 Concen: 22.089 ug/L  
 RT: 3.94 min Scan# 885  
 Delta R.T. 0.00 min  
 Lab File: VV016334.D  
 Acq: 30 May 2020 01:05

Tgt Ion: 96 Resp: 144048  
 Ion Ratio Lower Upper  
 96 100  
 61 138.9 99.7 185.1  
 68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 90.063 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA\_V

ClientSampleId :

CWKC0

Tot Ion: 95 Resp: 524315

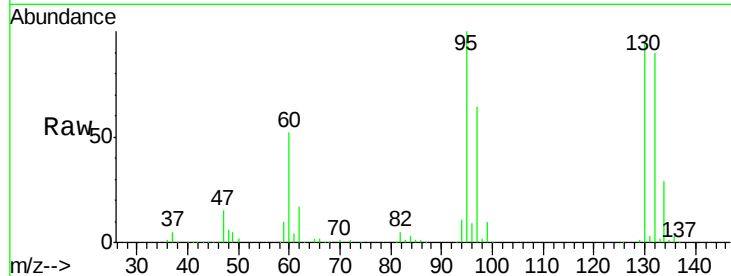
Ion Ratio Lower Upper

95 100

97 64.3 43.6 81.0

132 90.1 63.9 118.7

130 95.2 65.2 121.0

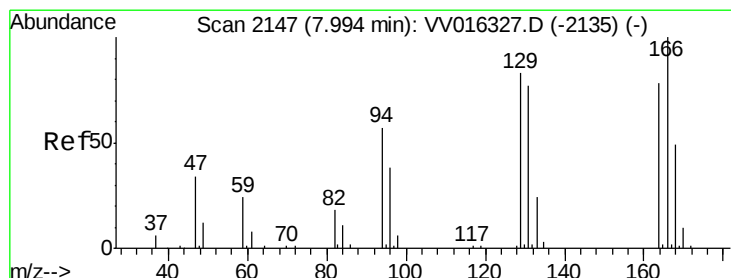
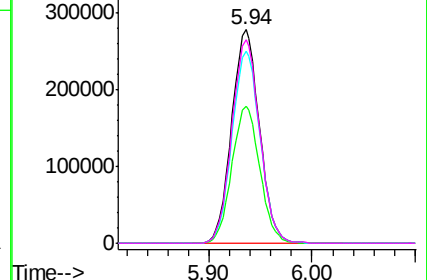
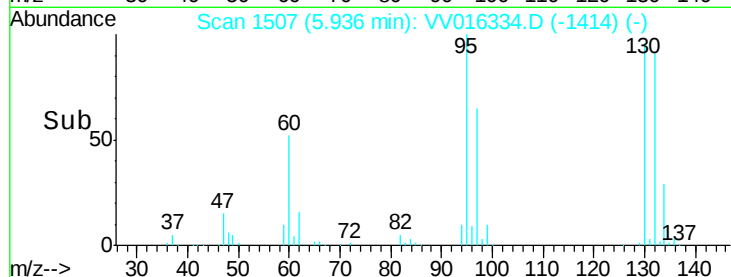


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#49

Tetrachloroethene

Concen: 1.683 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Tgt Ion: 164 Resp: 7033

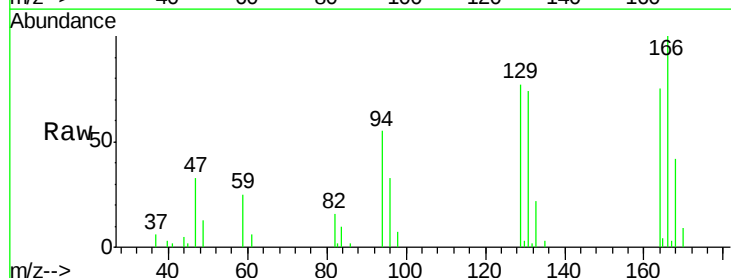
Ion Ratio Lower Upper

164 100

129 102.1 70.7 131.3

131 97.4 66.6 123.8

166 132.5 86.9 161.5

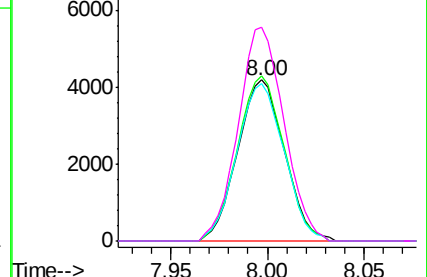
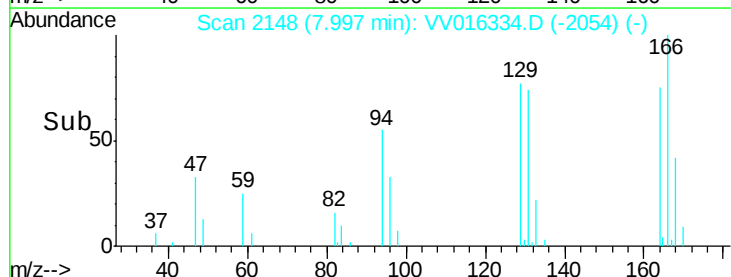


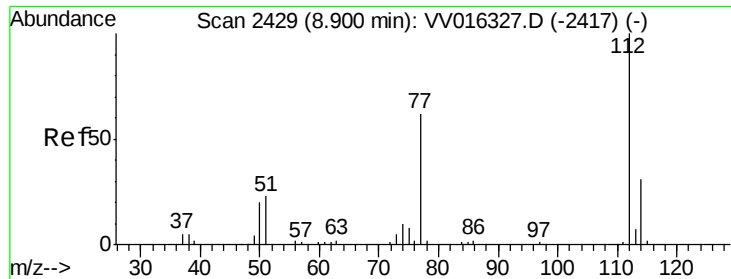
Abundance Ion 163.90 (163.60 to 164.60): V

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





#53

Chlorobenzene

Concen: 0.372 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV016334.D

Acq: 30 May 2020 01:05

Instrument :

MSVOA\_V

ClientSampleId :

CWKC0

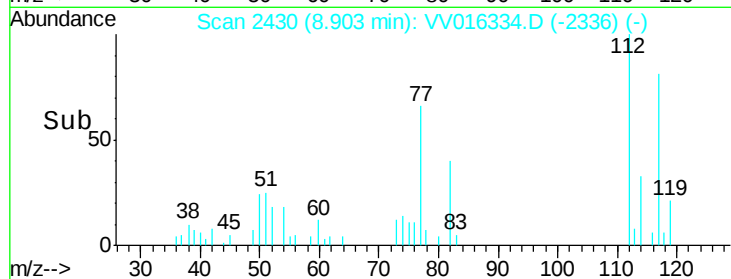
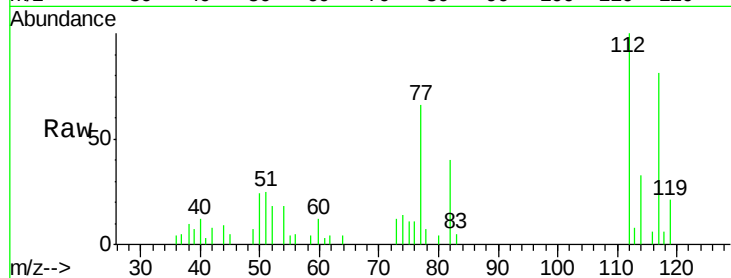
Tot Ion:112 Resp: 5601

Ion Ratio Lower Upper

112 100

114 32.7 22.3 41.3

77 66.2 50.7 76.1



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

