

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW031921\  
 Data File : VW018392.D  
 Acq On : 19 Mar 2021 16:28  
 Operator : SY/VA  
 Sample : M1685-19  
 Misc : 6.05G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG4G7

Quant Time: Mar 20 01:42:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SOM2WLM031921S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 20 01:36:44 2021  
 Response via : Initial Calibration

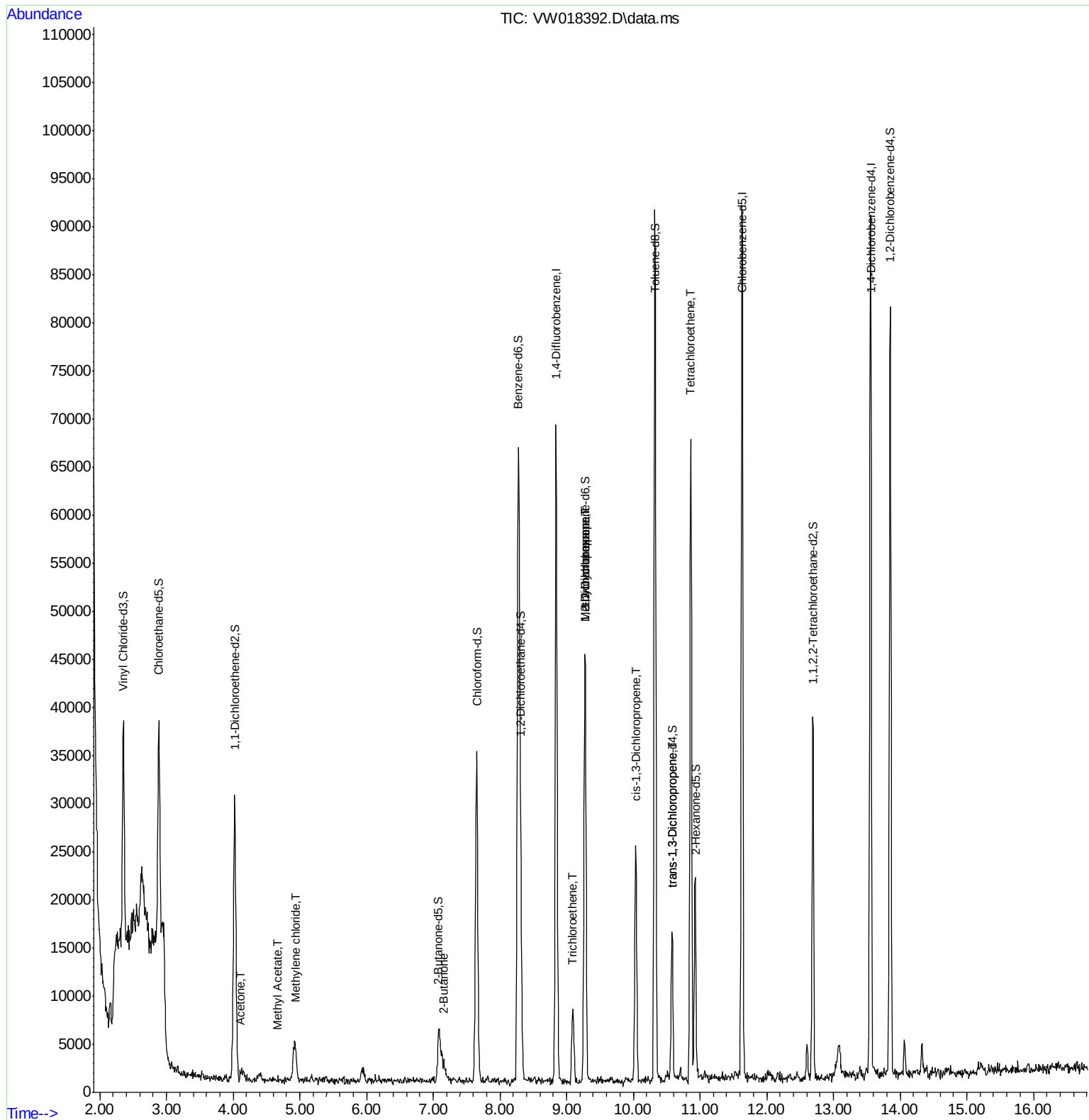
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 8.842          | 114  | 53962      | 25.00   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.628         | 117  | 47337      | 25.00   | ug/L   | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 13.560         | 152  | 22035      | 25.00   | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 2.349          | 65   | 22357      | 29.77   | ug/L   | -0.01    |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 119.08% |        |          |
| 7) Chloroethane-d5            | 2.885          | 69   | 22758      | 34.62   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 138.48% |        |          |
| 10) 1,1-Dichloroethene-d2     | 4.025          | 63   | 27387      | 21.12   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 84.48%  |        |          |
| 20) 2-Butanone-d5             | 7.080          | 46   | 10030      | 60.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 120.00% |        |          |
| 24) Chloroform-d              | 7.653          | 84   | 34171      | 24.86   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 99.44%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.311          | 65   | 21360      | 26.62   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 106.48% |        |          |
| 29) Benzene-d6                | 8.275          | 84   | 66115      | 26.27   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 105.08% |        |          |
| 33) 1,2-Dichloropropane-d6    | 9.274          | 67   | 19940      | 27.47   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 109.88% |        |          |
| 37) Toluene-d8                | 10.323         | 98   | 59649      | 24.62   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 98.48%  |        |          |
| 38) trans-1,3-Dichloroprop... | 10.579         | 79   | 8701       | 23.24   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 92.96%  |        |          |
| 39) 2-Hexanone-d5             | 10.933         | 63   | 7389       | 52.01   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 104.02% |        |          |
| 48) 1,1,2,2-Tetrachloroeth... | 12.695         | 84   | 17615      | 27.13   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 108.52% |        |          |
| 61) 1,2-Dichlorobenzene-d4    | 13.853         | 152  | 19297      | 24.63   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 98.52%  |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 13) Acetone                   | 4.105          | 43   | 350        | 2.91    | ug/L   | 77       |
| 15) Methyl Acetate            | 4.672          | 43   | 156        | 0.57    | ug/L # | 46       |
| 16) Methylene chloride        | 4.934          | 84   | 3094       | 3.50    | ug/L # | 69       |
| 21) 2-Butanone                | 7.159          | 43   | 144        | 0.75    | ug/L # | 42       |
| 35) Trichloroethene           | 9.091          | 95   | 2679       | 3.54    | ug/L   | 93       |
| 36) Methylcyclohexane         | 9.280          | 83   | 5412       | 4.08    | ug/L # | 21       |
| 40) 1,2-Dichloropropane       | 9.280          | 63   | 2709       | 4.04    | ug/L # | 84       |
| 42) cis-1,3-Dichloropropene   | 10.036         | 75   | 603        | 0.53    | ug/L # | 19       |
| 45) trans-1,3-Dichloropropene | 10.579         | 75   | 514        | 0.50    | ug/L # | 23       |
| 47) Tetrachloroethene         | 10.859         | 164  | 13816      | 24.02   | ug/L   | 93       |
| -----                         |                |      |            |         |        |          |

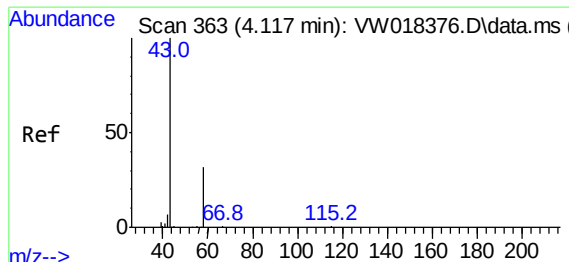
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 27 Sample Multiplier: 1

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Quant Title : VOC Analysis  
QLast Update : Sat Mar 20 01:36:44 2021  
Response via : Initial Calibration

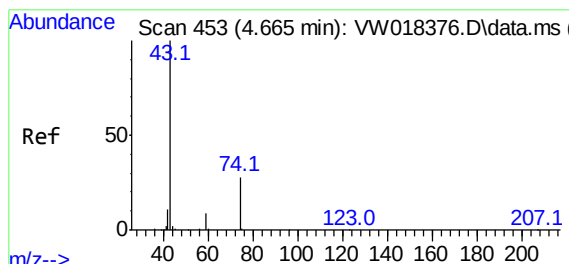
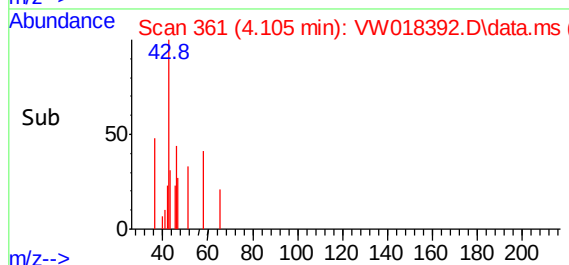
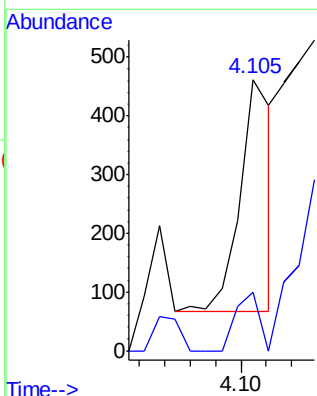
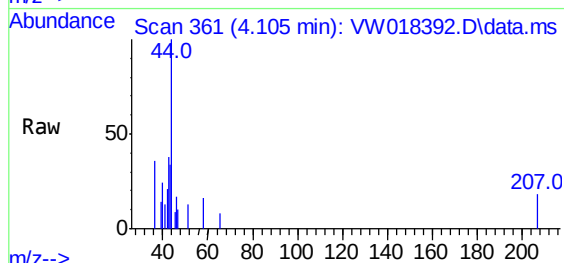




#13  
Acetone  
Concen: 2.91 ug/L  
RT: 4.105 min Scan# 361  
Delta R.T. -0.012 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

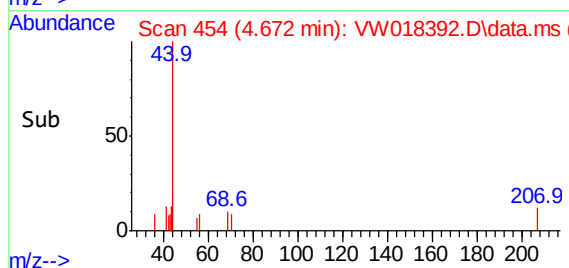
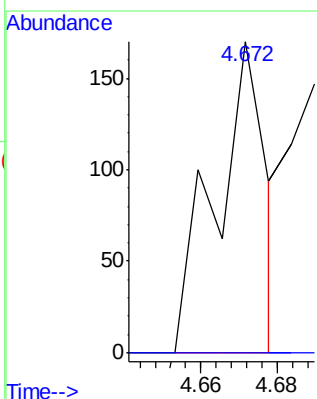
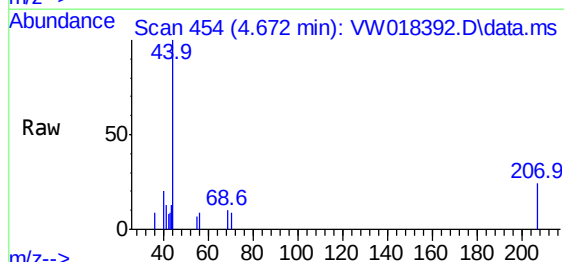
Instrument :  
MSVOA\_W  
ClientSampled :  
BG4G7

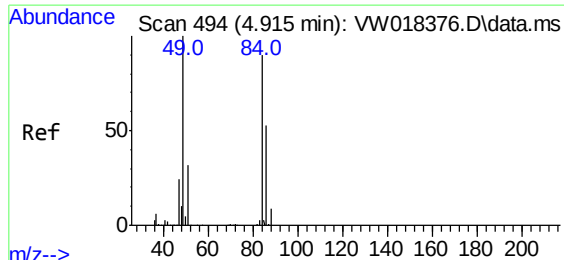
Tgt Ion: 43 Resp: 350  
Ion Ratio Lower Upper  
43 100  
58 18.3 0.0 62.2



#15  
Methyl Acetate  
Concen: 0.57 ug/L  
RT: 4.672 min Scan# 454  
Delta R.T. 0.006 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Tgt Ion: 43 Resp: 156  
Ion Ratio Lower Upper  
43 100  
74 0.0 22.9 34.3#



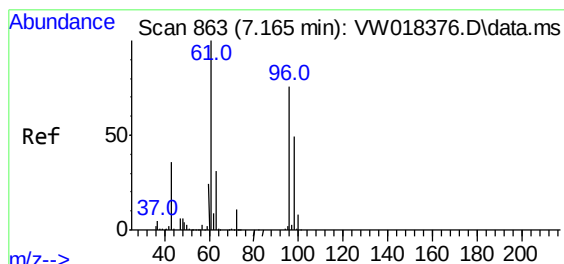
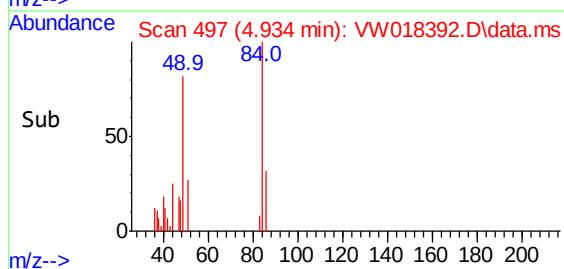
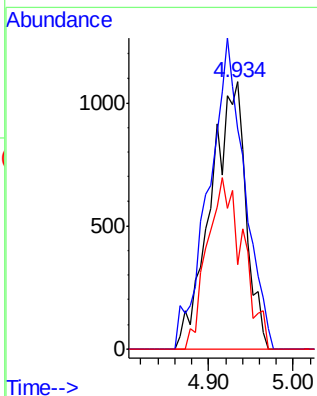
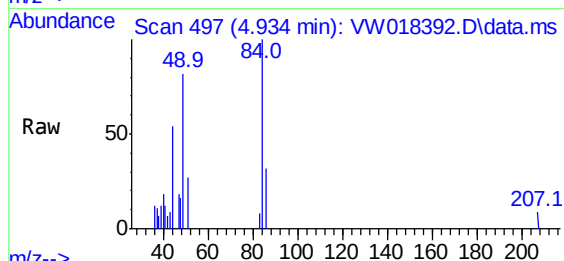


#16  
Methylene chloride  
Concen: 3.50 ug/L  
RT: 4.934 min Scan# 497  
Delta R.T. 0.018 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG4G7

Tgt Ion: 84 Resp: 3094

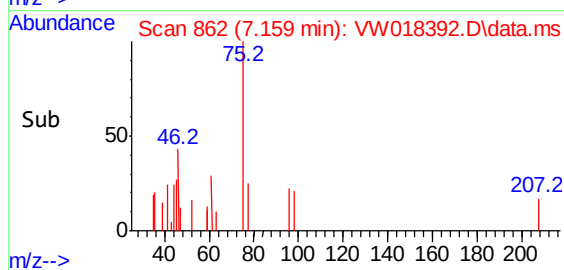
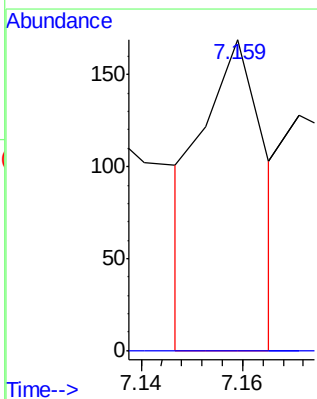
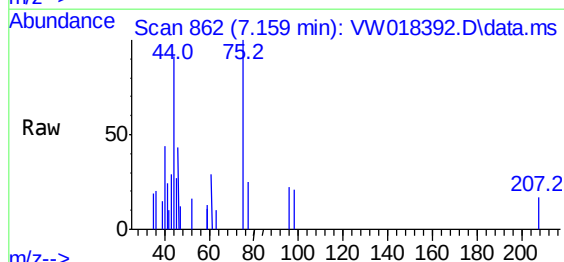
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 82.1  | 74.4  | 138.2 |
| 86  | 31.7  | 46.1  | 85.7# |

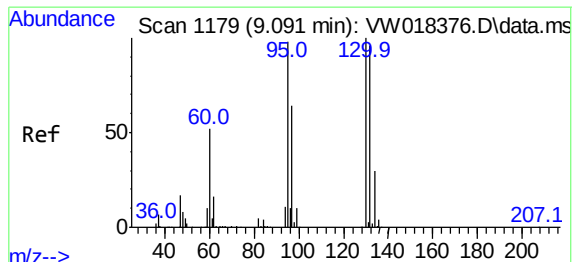


#21  
2-Butanone  
Concen: 0.75 ug/L  
RT: 7.159 min Scan# 862  
Delta R.T. -0.006 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Tgt Ion: 43 Resp: 144

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 16.5  | 49.5# |



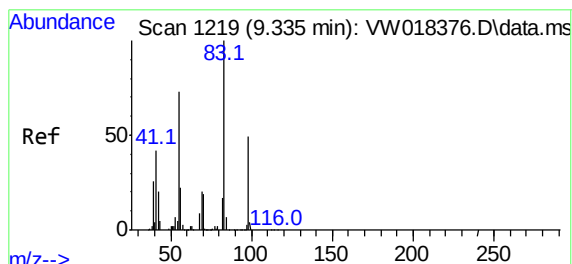
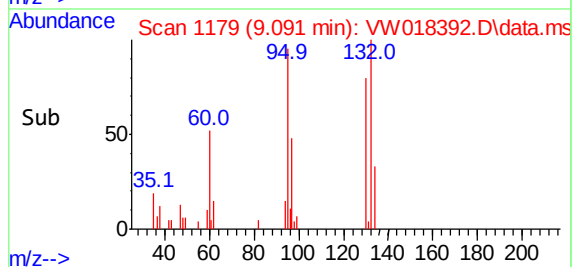
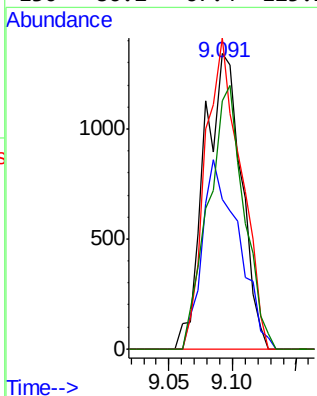
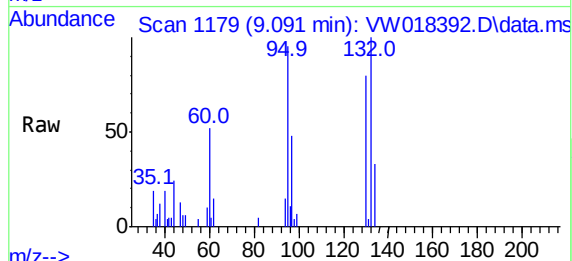


#35  
Trichloroethene  
Concen: 3.54 ug/L  
RT: 9.091 min Scan# 1179  
Delta R.T. 0.000 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG4G7

Tgt Ion: 95 Resp: 2679

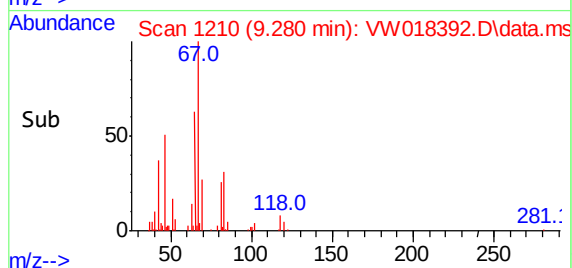
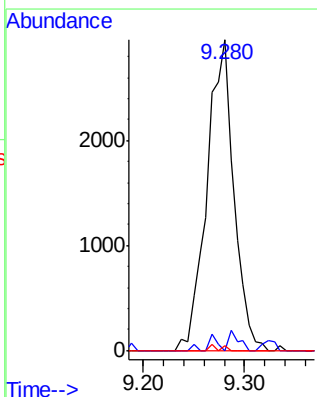
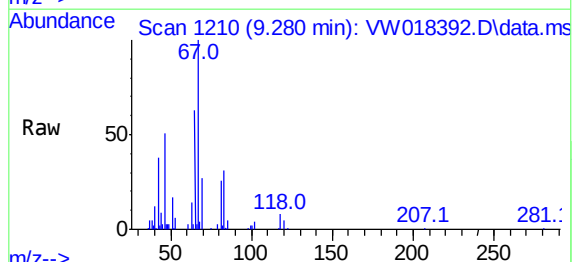
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 62.7  | 44.4  | 82.4  |
| 132 | 100.6 | 65.9  | 122.5 |
| 130 | 86.2  | 67.4  | 125.2 |

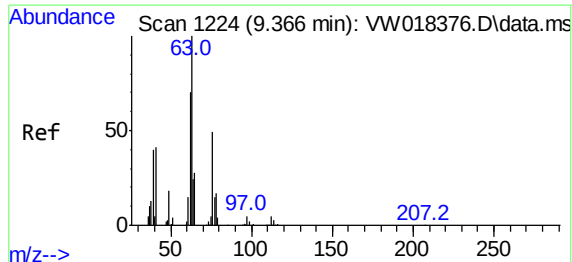


#36  
Methylcyclohexane  
Concen: 4.08 ug/L  
RT: 9.280 min Scan# 1210  
Delta R.T. -0.055 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Tgt Ion: 83 Resp: 5412

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 2.5   | 56.8  | 85.2# |
| 98  | 0.3   | 40.6  | 61.0# |

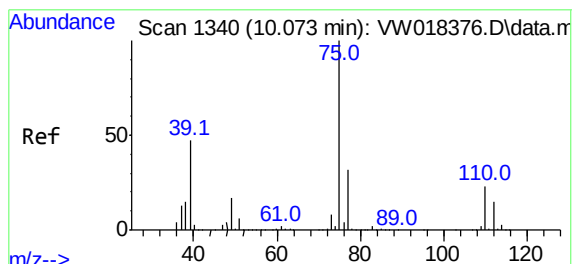
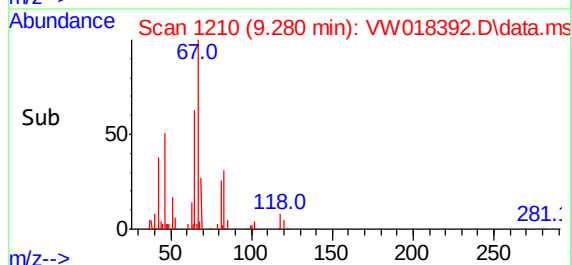
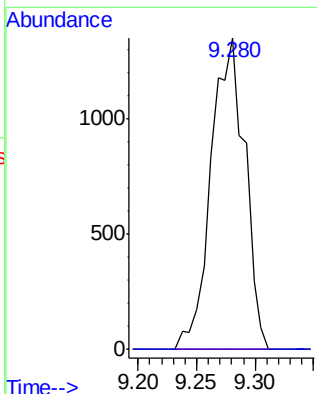
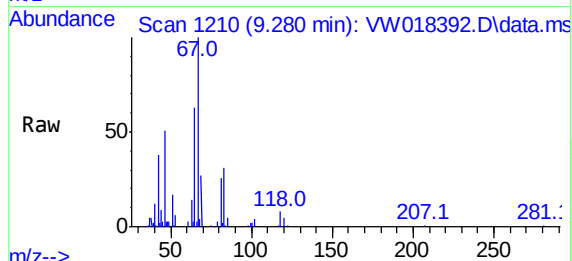




#40  
1,2-Dichloropropane  
Concen: 4.04 ug/L  
RT: 9.280 min Scan# 1210  
Delta R.T. -0.085 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

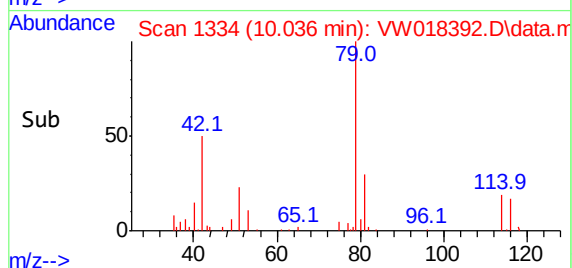
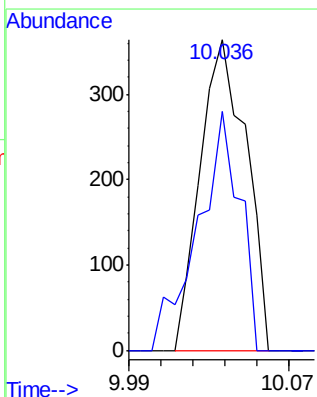
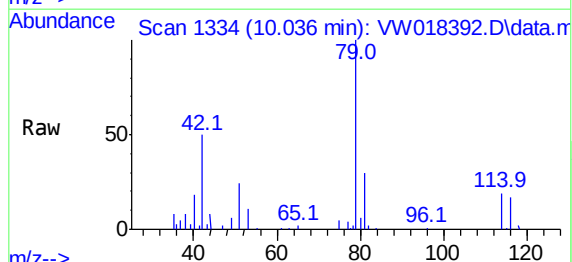
Instrument :  
MSVOA\_W  
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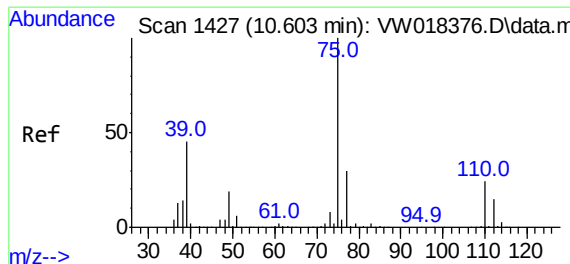
Tgt Ion: 63 Resp: 2709  
Ion Ratio Lower Upper  
63 100  
112 0.0 4.2 6.4#



#42  
cis-1,3-Dichloropropene  
Concen: 0.53 ug/L  
RT: 10.036 min Scan# 1334  
Delta R.T. -0.037 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Tgt Ion: 75 Resp: 603  
Ion Ratio Lower Upper  
75 100  
77 76.9 22.4 41.6#

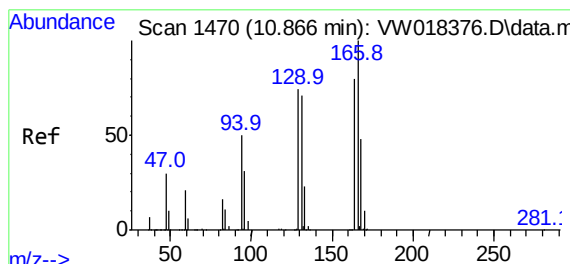
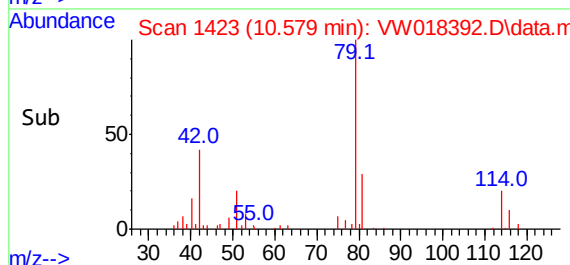
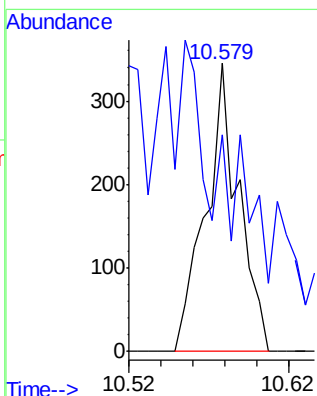
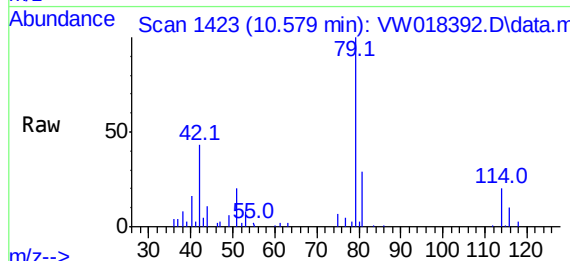




#45  
trans-1,3-Dichloropropene  
Concen: 0.50 ug/L  
RT: 10.579 min Scan# 1423  
Delta R.T. -0.024 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG4G7

Tgt Ion: 75 Resp: 514  
Ion Ratio Lower Upper  
75 100  
77 75.4 22.6 42.0#



#47  
Tetrachloroethene  
Concen: 24.02 ug/L  
RT: 10.859 min Scan# 1469  
Delta R.T. -0.006 min  
Lab File: VW018392.D  
Acq: 19 Mar 2021 16:28

Tgt Ion: 164 Resp: 13816  
Ion Ratio Lower Upper  
164 100  
129 109.1 68.8 127.8  
131 108.3 68.3 126.8  
166 138.4 95.4 177.2

