

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV060723\  
 Data File : VV031407.D  
 Acq On : 07 Jun 2023 18:24  
 Operator : SY/MD  
 Sample : 02992-07  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F6C09

Quant Time: Jun 08 04:26:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM060723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 08 04:14:38 2023  
 Response via : Initial Calibration

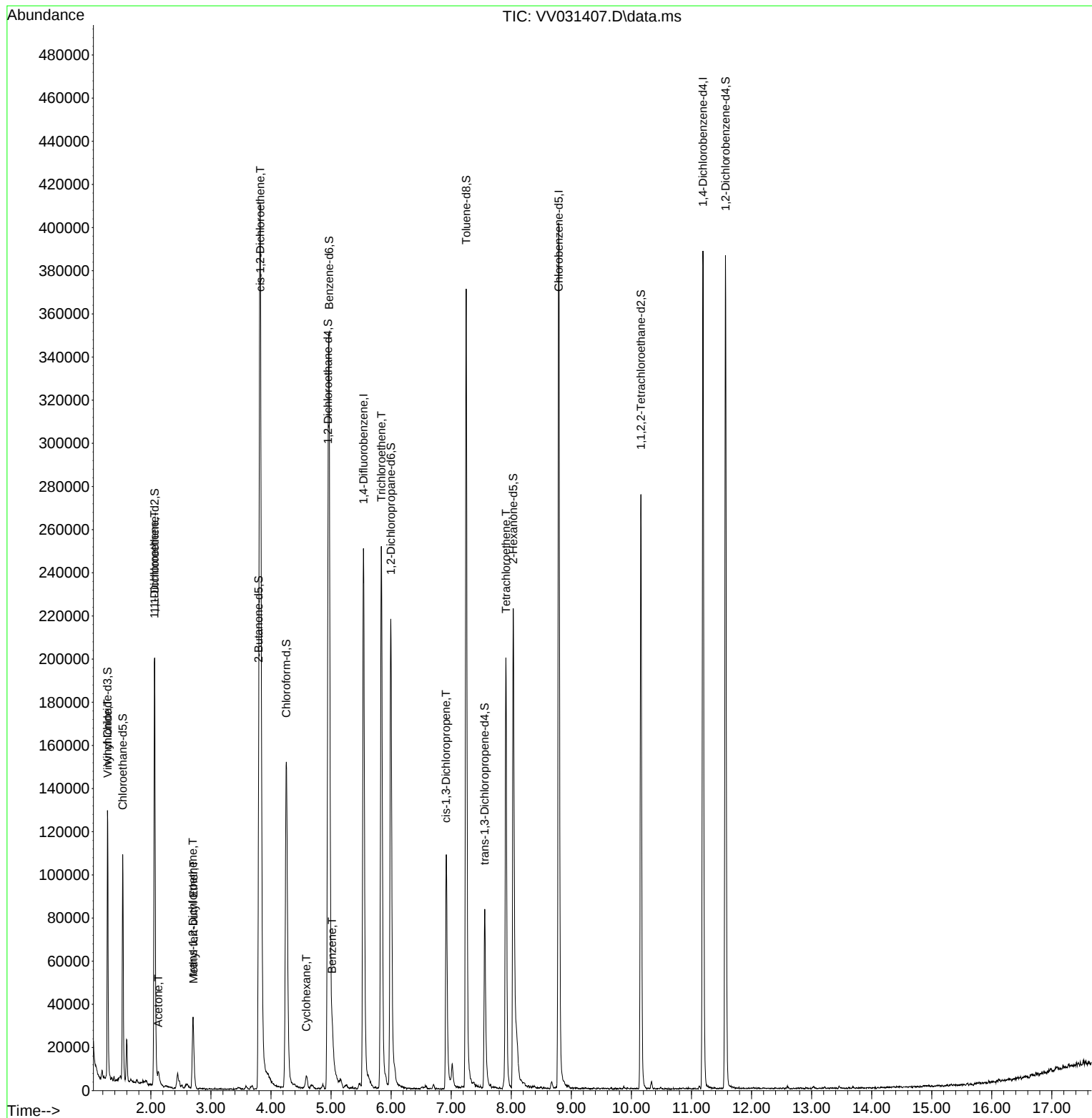
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539   | 114   | 204316   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792   | 117   | 215538   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 100289   | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 71826    | 39.956   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 79.920%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 65500    | 45.005   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.020%  |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 65    | 35324    | 41.461   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 82.920%  |
| 21) 2-Butanone-d5             | 3.796   | 46    | 139552   | 107.418  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 107.420% |
| 24) Chloroform-d              | 4.256   | 84    | 163356   | 47.773   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.540%  |
| 26) 1,2-Dichloroethane-d4     | 4.950   | 65    | 119181   | 51.955   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.920% |
| 32) Benzene-d6                | 4.966   | 84    | 288059   | 45.267   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.540%  |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 108335   | 48.978   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.960%  |
| 41) Toluene-d8                | 7.249   | 98    | 247316   | 42.308   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 84.620%  |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 50037    | 44.909   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 89.820%  |
| 47) 2-Hexanone-d5             | 8.034   | 63    | 74450    | 89.366   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 89.370%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 130208   | 46.645   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 93.300%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 94977    | 51.052   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.100% |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.281   | 62    | 11160    | 14.068   | ug/L   | 92       |
| 12) 1,1-Dichloroethene        | 2.060   | 96    | 1138     | 1.396    | ug/L # | 1        |
| 13) Acetone                   | 2.124   | 43    | 5687     | 4.893    | ug/L   | 93       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 7603     | 9.838    | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 7032     | 1.480    | ug/L # | 44       |
| 20) cis-1,2-Dichloroethene    | 3.822   | 96    | 196372   | 156.295  | ug/L   | 99       |
| 29) Cyclohexane               | 4.590   | 56    | 2725     | 2.361    | ug/L # | 73       |
| 33) Benzene                   | 5.018   | 78    | 21093    | 4.435    | ug/L   | 100      |
| 34) Trichloroethene           | 5.838   | 95    | 86791    | 57.925   | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 6.915   | 75    | 3238     | 1.266    | ug/L   | 89       |
| 46) Tetrachloroethene         | 7.911   | 164   | 43318    | 44.533   | ug/L   | 99       |
| -----                         |         |       |          |          |        |          |

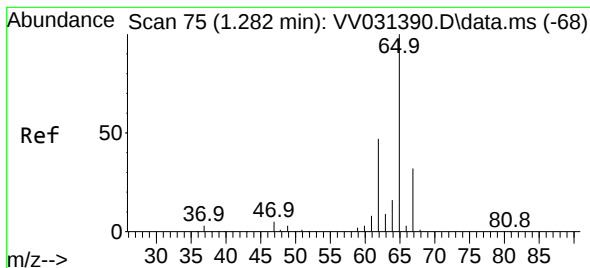
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Jun 08 04:14:38 2023  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 14.068 ug/L

RT: 1.281 min Scan# 71

Delta R.T. -0.000 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

Instrument :

MSVOA\_V

ClientSampleId :

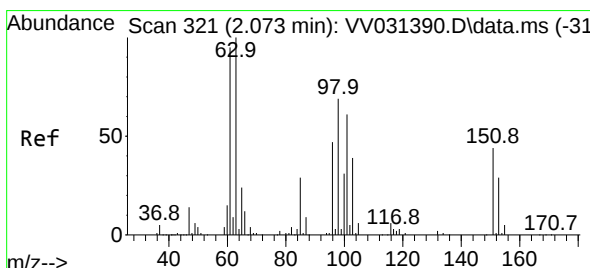
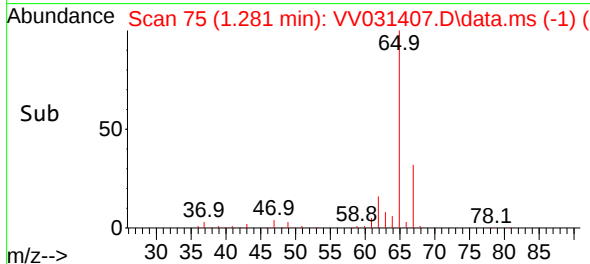
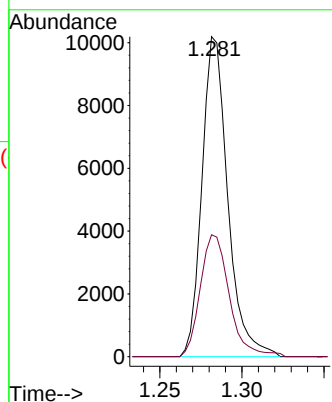
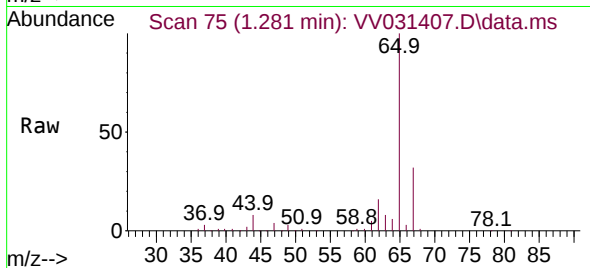
F6C09

Tgt Ion: 62 Resp: 11160

Ion Ratio Lower Upper

62 100

64 38.1 23.7 43.9



#12

1,1-Dichloroethene

Concen: 1.396 ug/L

RT: 2.060 min Scan# 317

Delta R.T. -0.013 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

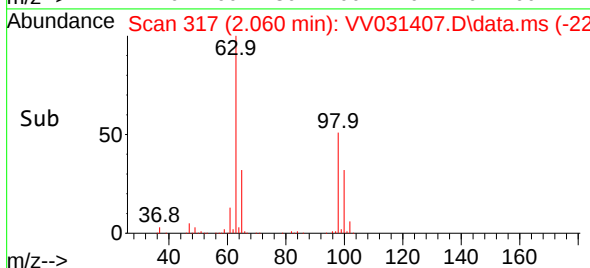
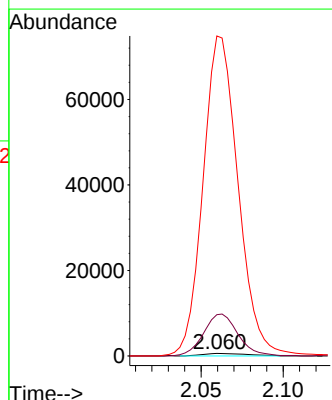
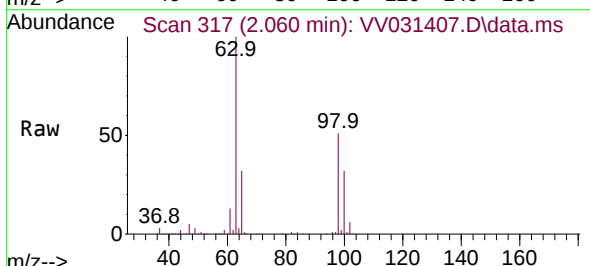
Tgt Ion: 96 Resp: 1138

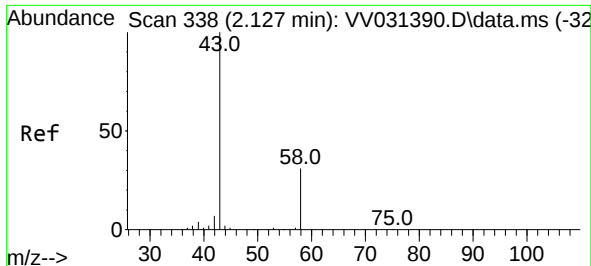
Ion Ratio Lower Upper

96 100

61 1642.4 143.9 267.3#

63 12709.0 158.3 293.9#





#13

Acetone

Concen: 4.893 ug/L

RT: 2.124 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

Instrument :

MSVOA\_V

ClientSampleId :

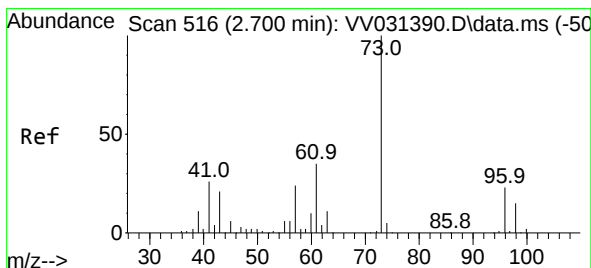
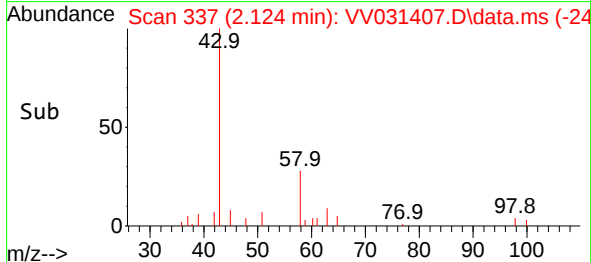
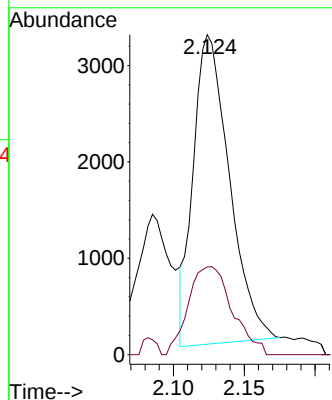
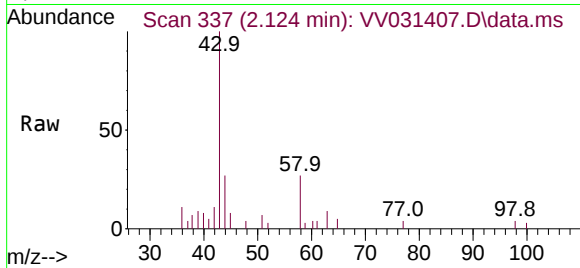
F6C09

Tgt Ion: 43 Resp: 5687

Ion Ratio Lower Upper

43 100

58 34.1 0.0 61.0



#17

trans-1,2-Dichloroethene

Concen: 9.838 ug/L

RT: 2.699 min Scan# 516

Delta R.T. -0.000 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

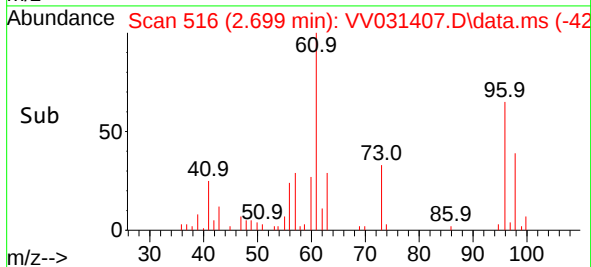
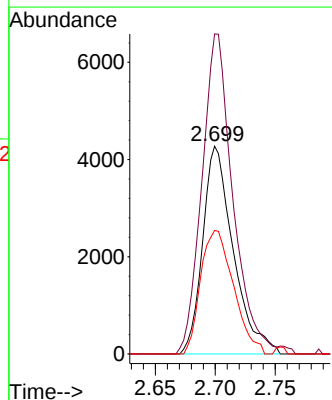
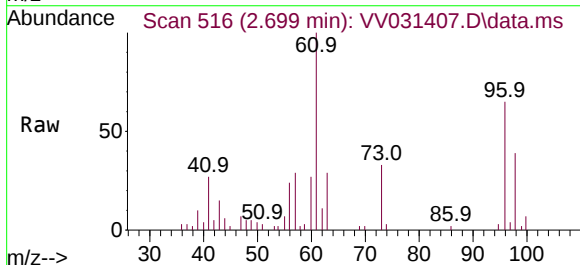
Tgt Ion: 96 Resp: 7603

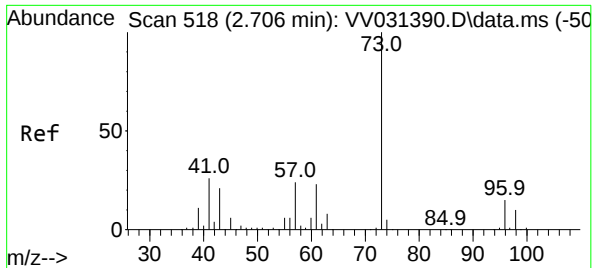
Ion Ratio Lower Upper

96 100

61 153.9 106.9 198.5

98 59.4 44.9 83.3

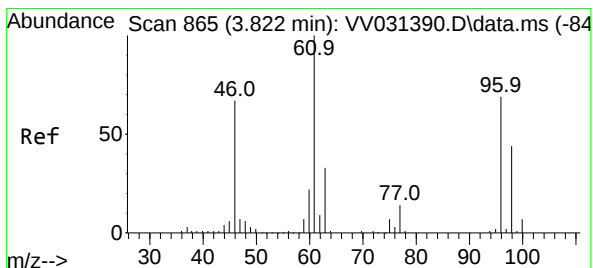
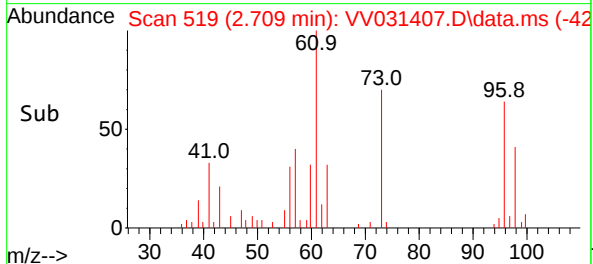
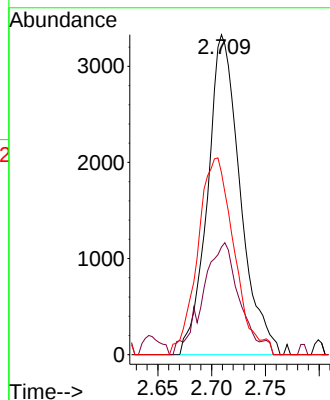
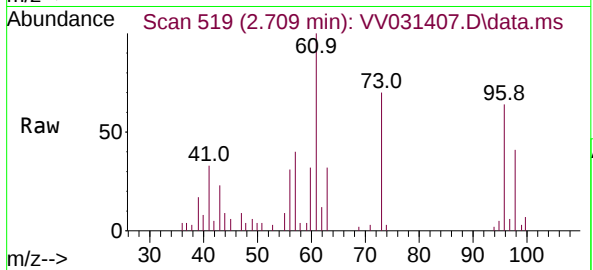




#18  
Methyl tert-butyl Ether  
Concen: 1.480 ug/L  
RT: 2.709 min Scan# 518  
Delta R.T. 0.003 min  
Lab File: VV031407.D  
Acq: 07 Jun 2023 18:24

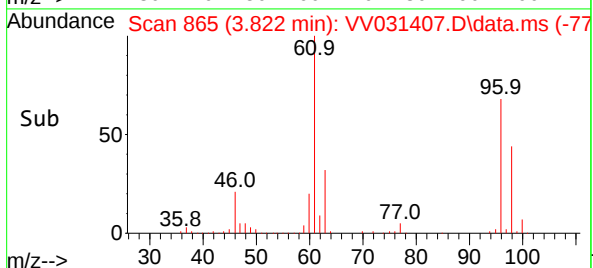
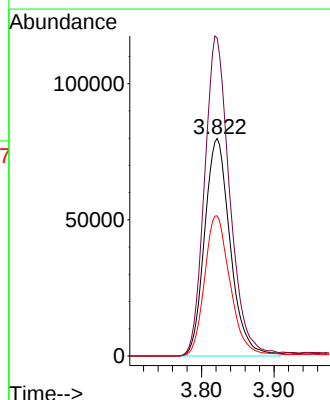
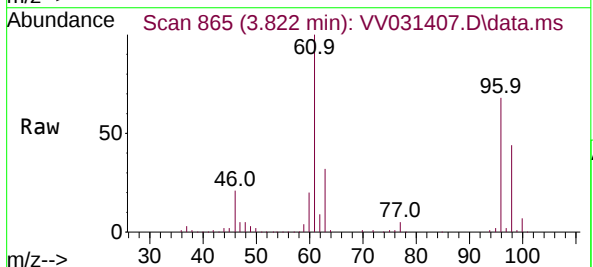
Instrument :  
MSVOA\_V  
ClientSampleId :  
F6C09

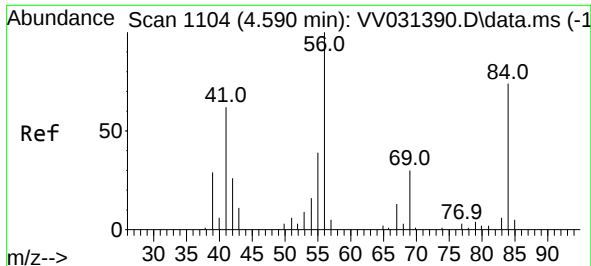
Tgt Ion: 73 Resp: 7032  
Ion Ratio Lower Upper  
73 100  
43 29.1 16.6 25.0#  
57 67.2 18.6 28.0#



#20  
cis-1,2-Dichloroethene  
Concen: 156.295 ug/L  
RT: 3.822 min Scan# 865  
Delta R.T. -0.000 min  
Lab File: VV031407.D  
Acq: 07 Jun 2023 18:24

Tgt Ion: 96 Resp: 196372  
Ion Ratio Lower Upper  
96 100  
61 146.3 101.6 188.6  
98 64.5 44.4 82.4





#29

Cyclohexane

Concen: 2.361 ug/L

RT: 4.590 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

Instrument :

MSVOA\_V

ClientSampleId :

F6C09

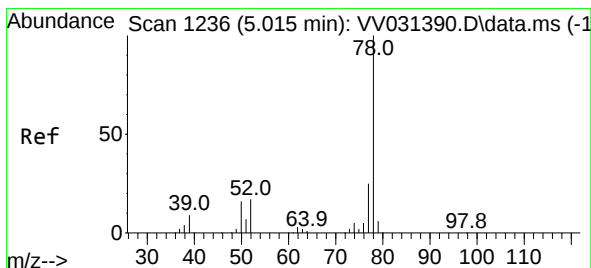
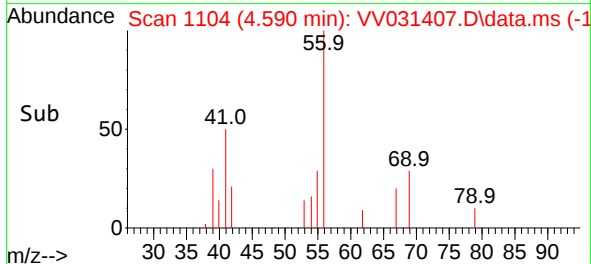
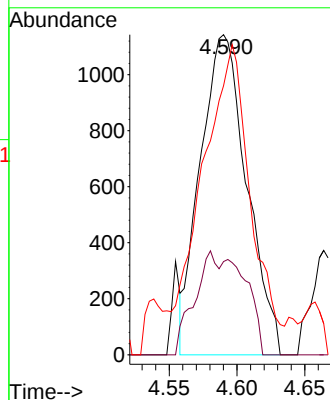
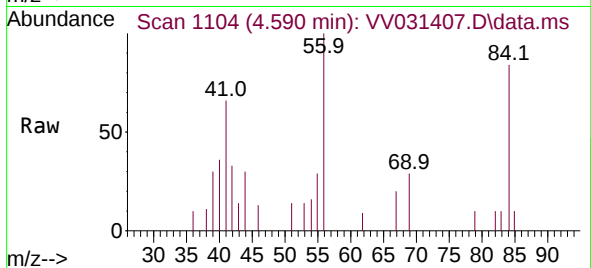
Tgt Ion: 56 Resp: 2725

Ion Ratio Lower Upper

56 100

69 17.0 23.5 35.3#

84 101.2 61.3 91.9#



#33

Benzene

Concen: 4.435 ug/L

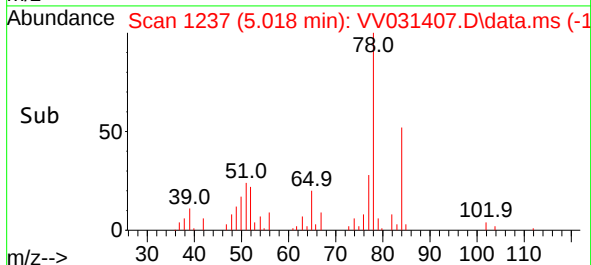
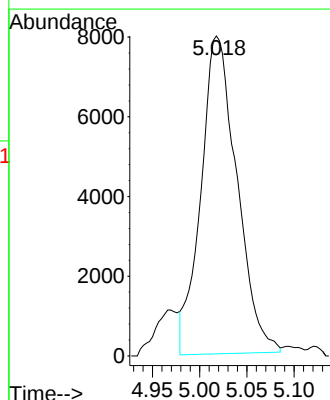
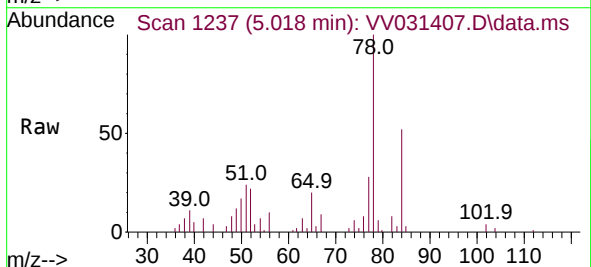
RT: 5.018 min Scan# 1237

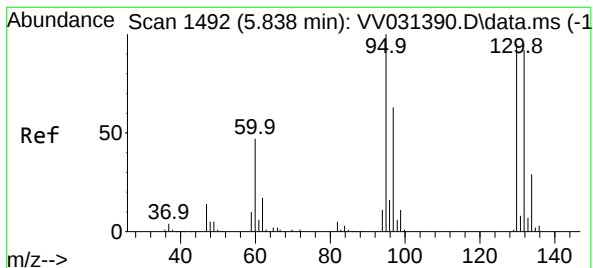
Delta R.T. 0.003 min

Lab File: VV031407.D

Acq: 07 Jun 2023 18:24

Tgt Ion: 78 Resp: 21093





#34

Trichloroethene

Concen: 57.925 ug/L

RT: 5.838 min Scan# 1492

Delta R.T. -0.000 min

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Acq: 07 Jun 2023 18:24

Instrument :

MSVOA\_V

ClientSampleId :

F6C09

Tgt Ion: 95 Resp: 86791

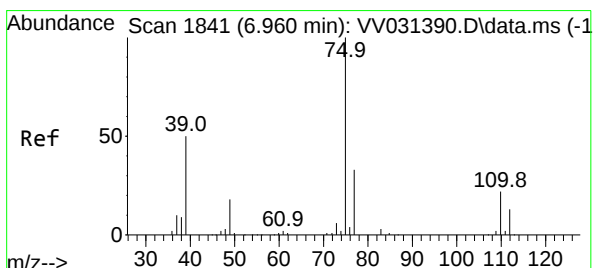
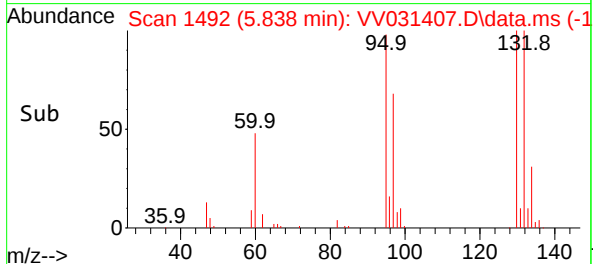
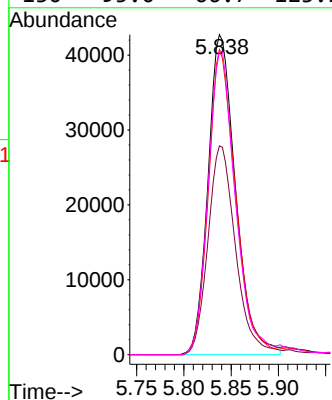
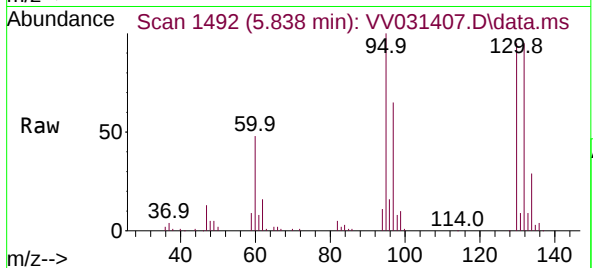
Ion Ratio Lower Upper

95 100

97 65.3 44.2 82.0

132 95.3 64.2 119.2

130 95.0 66.7 123.9



#39

cis-1,3-Dichloropropene

Concen: 1.266 ug/L

RT: 6.915 min Scan# 1827

Delta R.T. -0.045 min

Lab File: VV031407.D

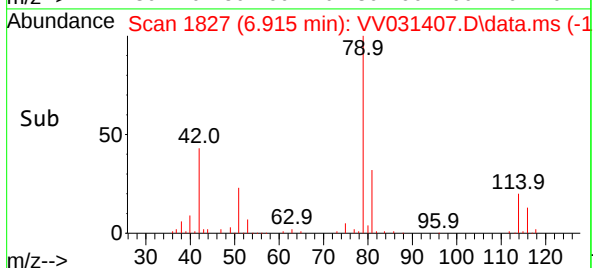
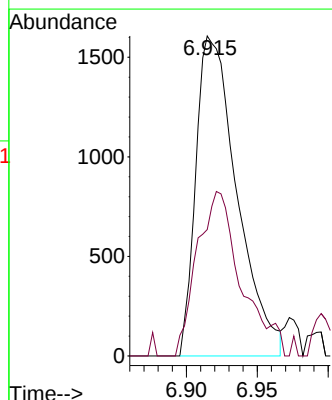
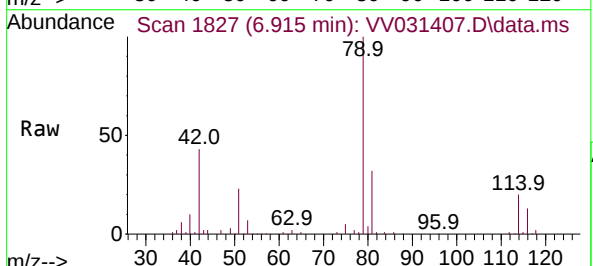
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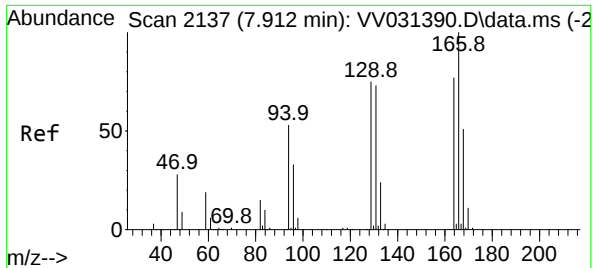
Tgt Ion: 75 Resp: 3238

Ion Ratio Lower Upper

75 100

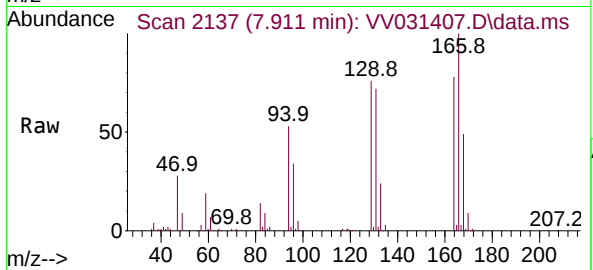
77 39.5 23.2 43.2





#46  
 Tetrachloroethene  
 Concen: 44.533 ug/L  
 RT: 7.911 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VV031407.D  
 Acq: 07 Jun 2023 18:24

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Tgt Ion:164 Resp: 43318

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 97.7  | 68.0  | 126.4 |
| 131 | 92.5  | 65.5  | 121.7 |
| 166 | 128.1 | 90.5  | 168.1 |

