

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090723\  
 Data File : VU055193.D  
 Acq On : 07 Sep 2023 17:01  
 Operator : MD/SY  
 Sample : 04286-02  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 08 05:09:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR090123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 08 05:04:57 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.248  | 114   | 159447   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.418  | 117   | 165230   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.814 | 152   | 82636    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 27210    | 3.641    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 72.800%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 37508    | 4.336    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 86.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 18204    | 4.275    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 85.600%  |
| 20) 2-Butanone-d5             | 4.627  | 46    | 135040   | 62.271   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 124.540% |
| 24) Chloroform-d              | 5.062  | 84    | 102857   | 5.187    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 103.800% |
| 26) 1,2-Dichloroethane-d4     | 5.701  | 65    | 53355    | 5.378    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 107.600% |
| 32) Benzene-d6                | 5.724  | 84    | 189839   | 4.655    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67    | 66197    | 5.103    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 102.000% |
| 41) Toluene-d8                | 7.897  | 98    | 165547   | 4.406    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.200%  |
| 43) trans-1,3-Dichloroprop... | 8.184  | 79    | 16141    | 4.518    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 90.400%  |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 72687    | 50.118   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 100.240% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.756 | 84    | 50528    | 5.539    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 110.800% |
| 66) 1,2-Dichlorobenzene-d4    | 12.196 | 152   | 59572    | 4.939    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 98.800%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.515  | 50    | 3420     | 0.363    | ug/L   | 95       |
| 5) Vinyl chloride             | 1.599  | 62    | 5412     | 0.544    | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 61823    | 8.387    | ug/L # | 83       |
| 17) Methyl tert-butyl Ether   | 3.367  | 73    | 7618     | 0.394    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 3588     | 0.480    | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.869  | 63    | 20222    | 1.251    | ug/L   | 94       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 1290825  | 140.996  | ug/L   | 96       |
| 25) Chloroform                | 5.090  | 83    | 21051    | 1.251    | ug/L   | 91       |
| 27) 1,2-Dichloroethane        | 5.801  | 62    | 7238     | 0.704    | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97    | 3886     | 0.272    | ug/L # | 84       |
| 34) Trichloroethene           | 6.541  | 95    | 464537   | 47.532   | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.692  | 83    | 13816    | 1.008    | ug/L # | 23       |
| 37) 1,2-Dichloropropane       | 6.688  | 63    | 7434     | 0.776    | ug/L # | 88       |
| 47) Tetrachloroethene         | 8.553  | 164   | 1677     | 0.248    | ug/L   | 92       |
| 48) 2-Hexanone                | 8.685  | 43    | 22426    | 5.243    | ug/L # | 91       |
| 49) Dibromochloromethane      | 8.553  | 129   | 1677     | 0.238    | ug/L # | 9        |
| 61) 1,2,3-Trichloropropane    | 11.810 | 75    | 12671    | 2.311    | ug/L # | 70       |
| -----                         |        |       |          |          |        |          |

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Acq On : 07 Sep 2023 17:01  
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Sample : 04286-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

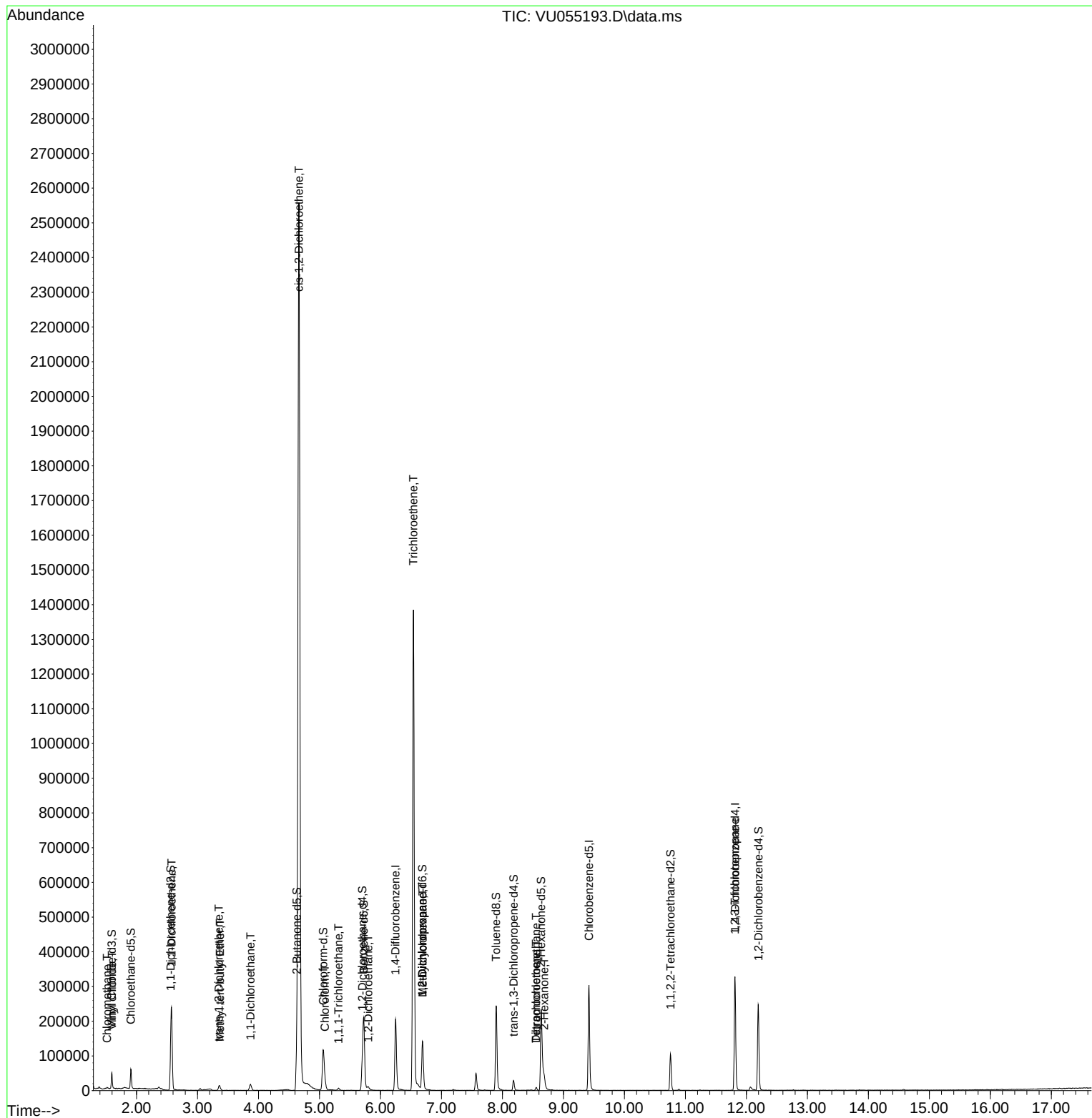
Quant Time: Sep 08 05:09:03 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR090123WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Sep 08 05:04:57 2023  
Response via : Initial Calibration

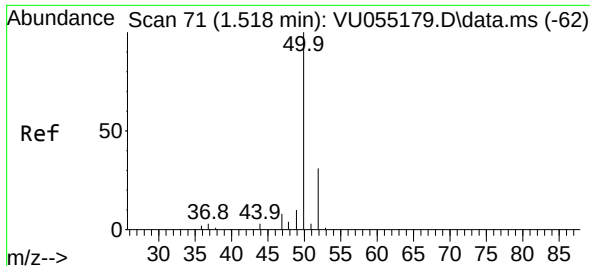
| Compound                                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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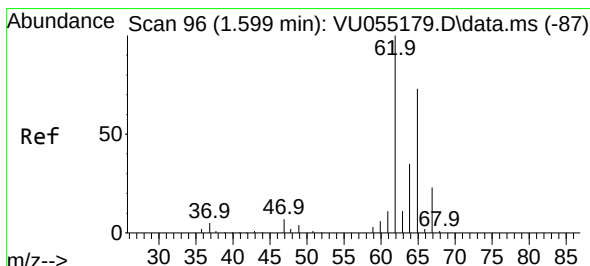
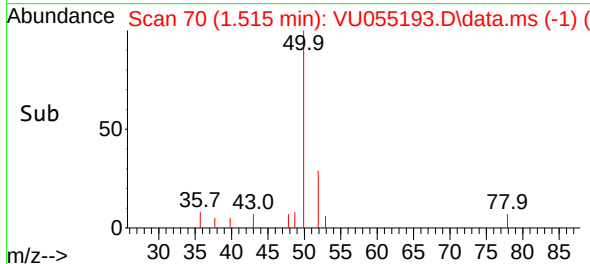
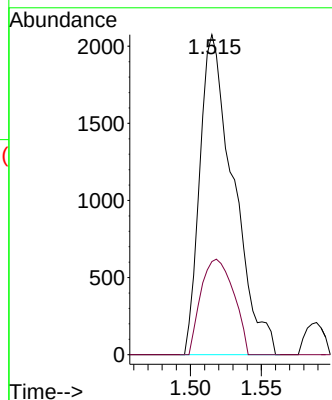
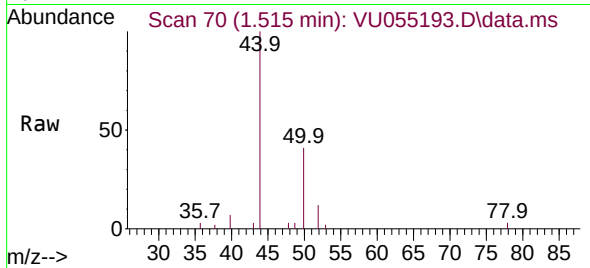




#3  
Chloromethane  
Concen: 0.363 ug/L  
RT: 1.515 min Scan# 71  
Delta R.T. -0.003 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

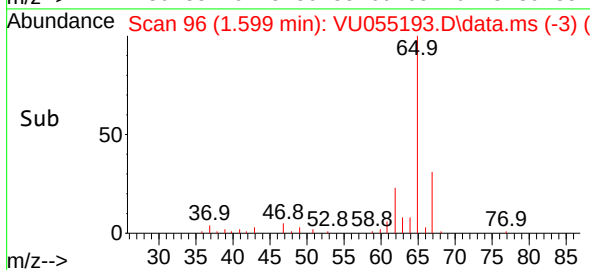
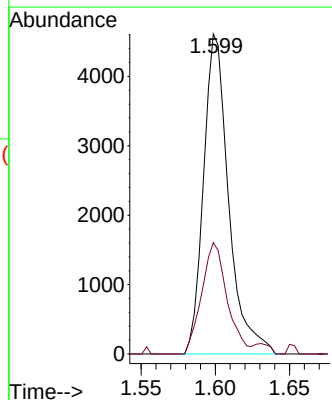
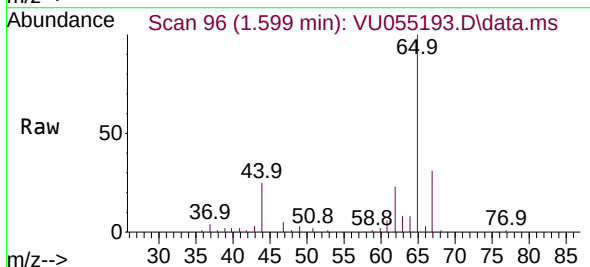
Instrument :  
MSVOA\_U  
ClientSampleId :

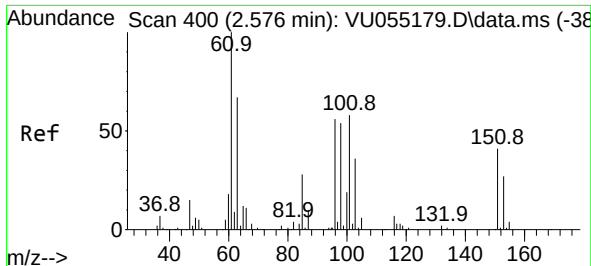
Tgt Ion: 50 Resp: 3420  
Ion Ratio Lower Upper  
50 100  
52 29.1 22.5 41.7



#5  
Vinyl chloride  
Concen: 0.544 ug/L  
RT: 1.599 min Scan# 96  
Delta R.T. -0.000 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Tgt Ion: 62 Resp: 5412  
Ion Ratio Lower Upper  
62 100  
64 34.8 24.2 45.0

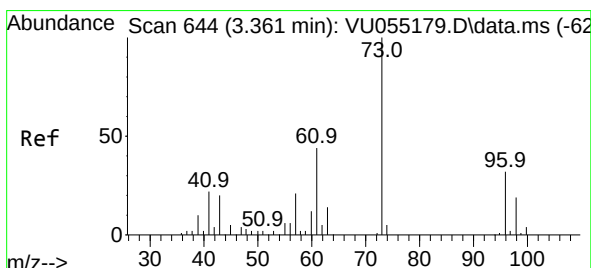
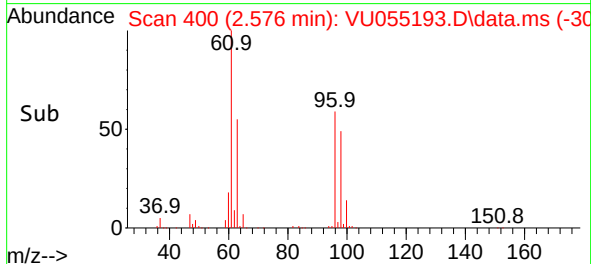
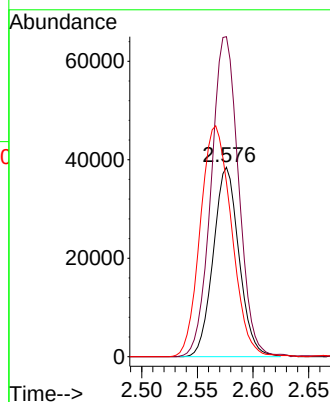
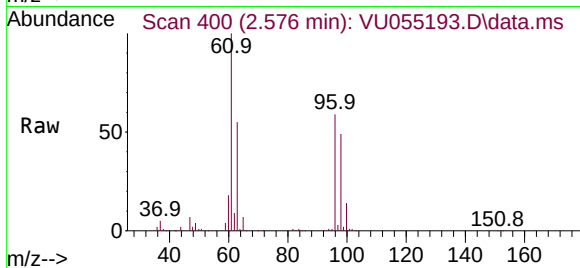




#12  
1,1-Dichloroethene  
Concen: 8.387 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

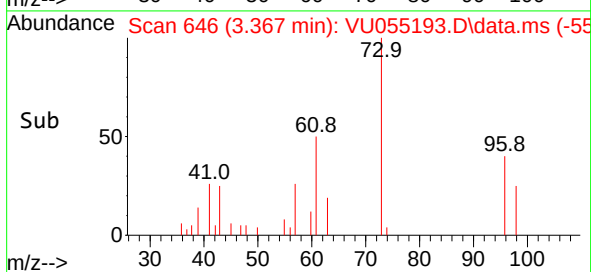
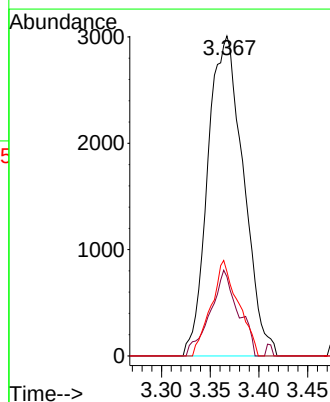
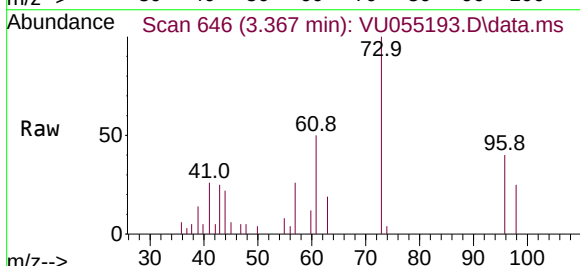
Instrument :  
MSVOA\_U  
ClientSampleId :

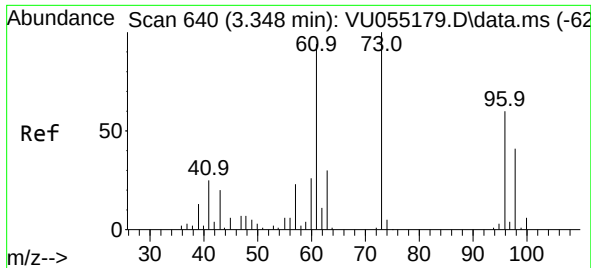
Tgt Ion: 96 Resp: 61823  
Ion Ratio Lower Upper  
96 100  
61 168.8 120.8 224.4  
63 92.0 94.5 175.5#



#17  
Methyl tert-butyl Ether  
Concen: 0.394 ug/L  
RT: 3.367 min Scan# 646  
Delta R.T. 0.006 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Tgt Ion: 73 Resp: 7618  
Ion Ratio Lower Upper  
73 100  
43 21.1 16.2 24.2  
57 22.9 17.4 26.2

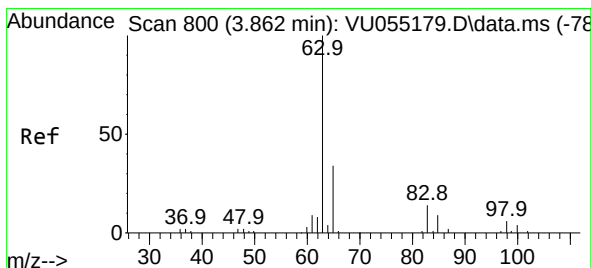
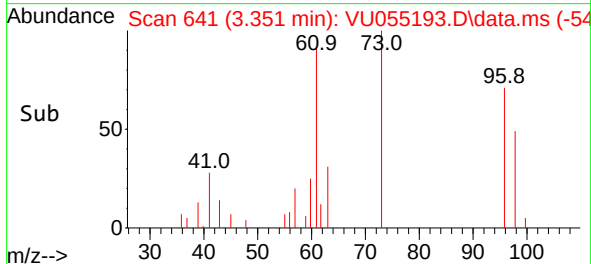
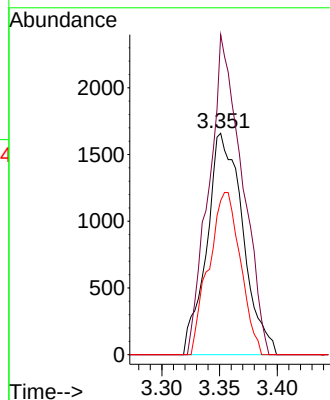
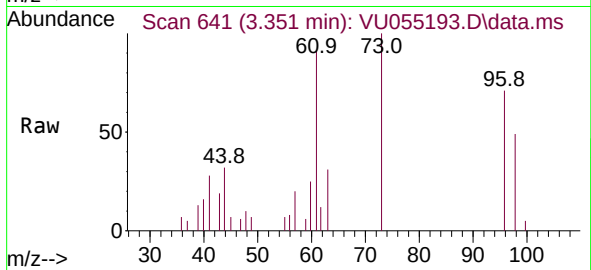




#18  
trans-1,2-Dichloroethene  
Concen: 0.480 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

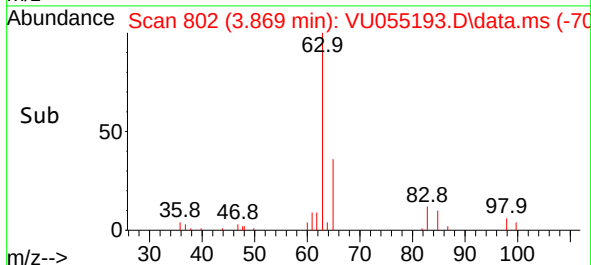
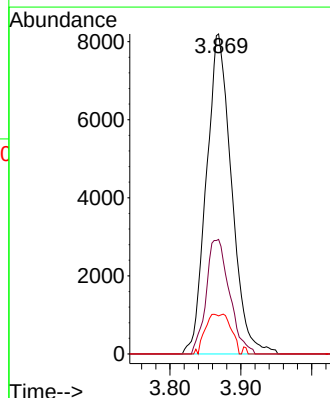
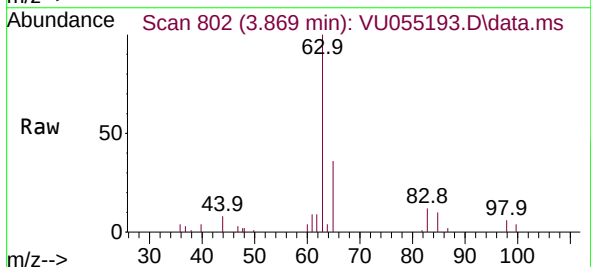
Instrument :  
MSVOA\_U  
ClientSampleId :

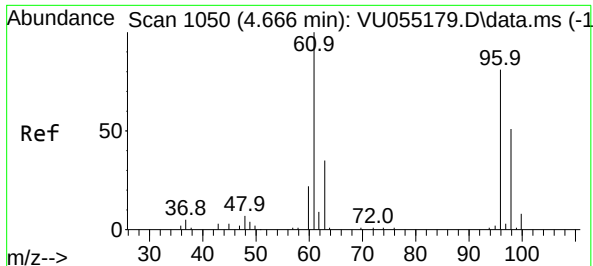
Tgt Ion: 96 Resp: 3588  
Ion Ratio Lower Upper  
96 100  
61 144.5 108.1 200.9  
98 69.6 45.4 84.4



#19  
1,1-Dichloroethane  
Concen: 1.251 ug/L  
RT: 3.869 min Scan# 802  
Delta R.T. 0.006 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Tgt Ion: 63 Resp: 20222  
Ion Ratio Lower Upper  
63 100  
65 34.3 22.2 41.2  
83 11.4 10.6 19.8



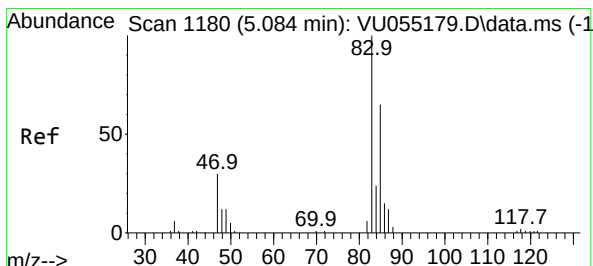
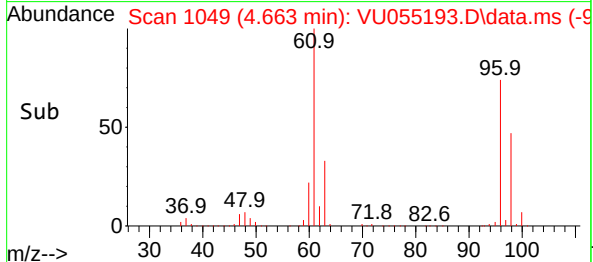
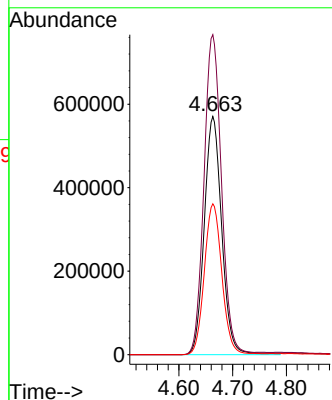
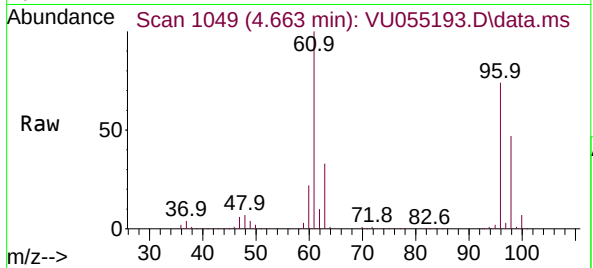


#22  
 cis-1,2-Dichloroethene  
 Concen: 140.996 ug/L  
 RT: 4.663 min Scan# 110  
 Delta R.T. -0.003 min  
 Lab File: VU055193.D  
 Acq: 07 Sep 2023 17:01

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tgt Ion: 96 Resp: 1290825

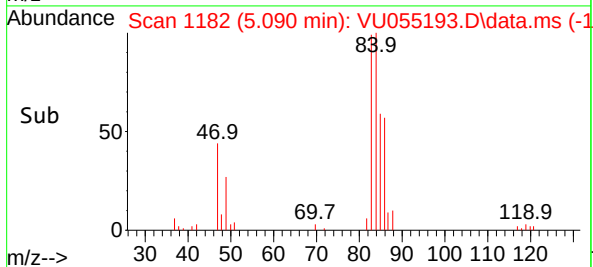
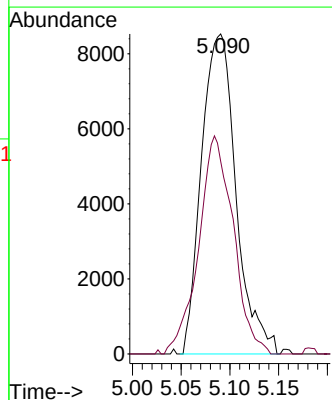
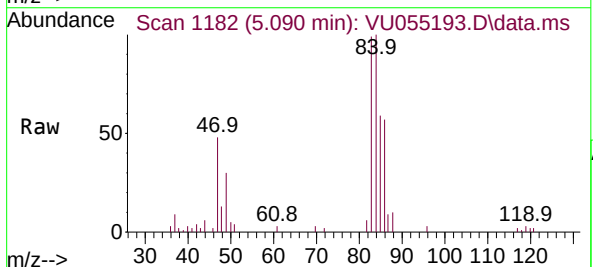
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 134.3 | 97.2  | 180.4 |
| 98  | 63.3  | 46.1  | 85.7  |

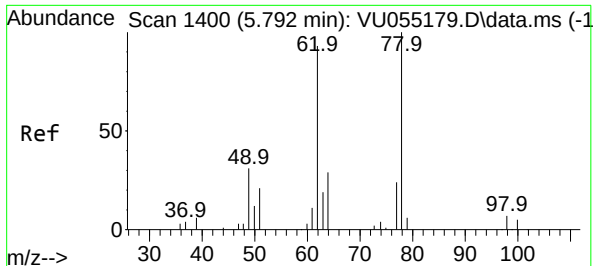


#25  
 Chloroform  
 Concen: 1.251 ug/L  
 RT: 5.090 min Scan# 1182  
 Delta R.T. 0.006 min  
 Lab File: VU055193.D  
 Acq: 07 Sep 2023 17:01

Tgt Ion: 83 Resp: 21051

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 60.2  | 47.2  | 87.6  |

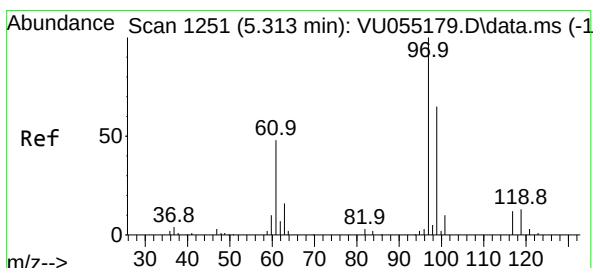
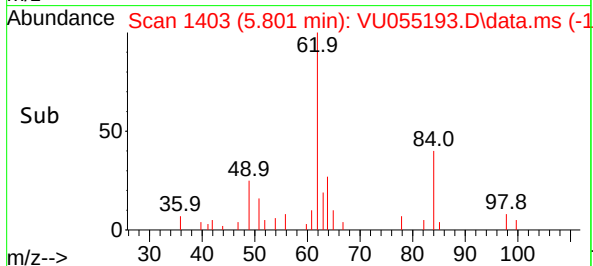
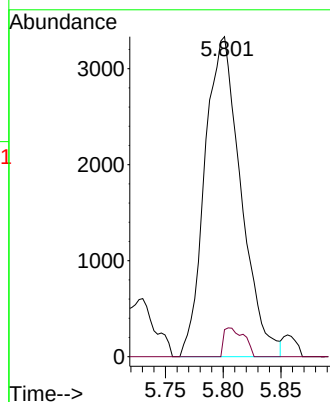
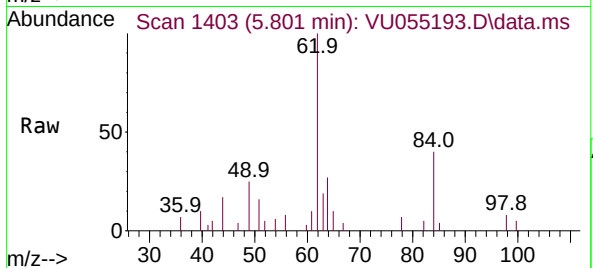




#27  
1,2-Dichloroethane  
Concen: 0.704 ug/L  
RT: 5.801 min Scan# 1400  
Delta R.T. 0.009 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

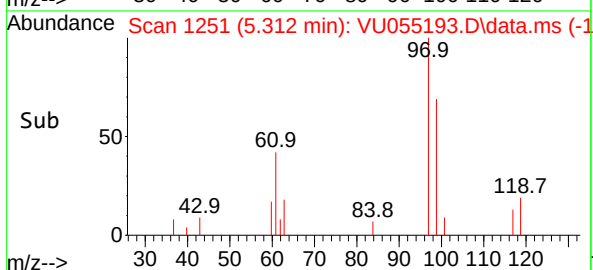
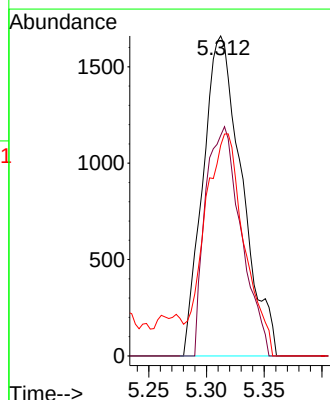
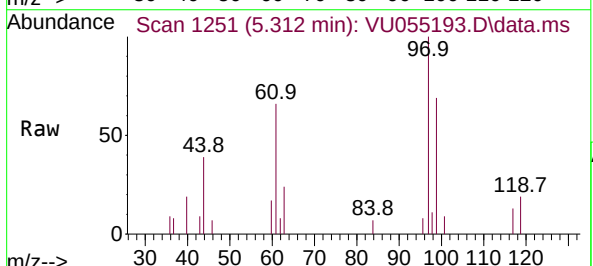
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 62 Resp: 7238  
Ion Ratio Lower Upper  
62 100  
98 8.4 6.9 10.3

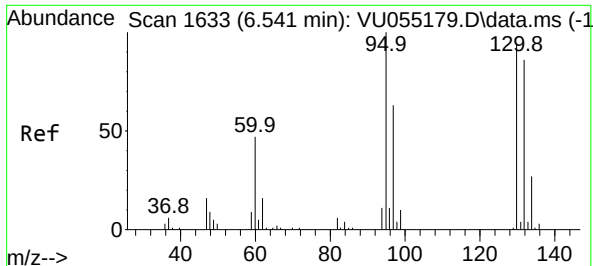


#29  
1,1,1-Trichloroethane  
Concen: 0.272 ug/L  
RT: 5.312 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Tgt Ion: 97 Resp: 3886  
Ion Ratio Lower Upper  
97 100  
99 65.5 51.8 77.8  
61 70.8 36.8 55.2#



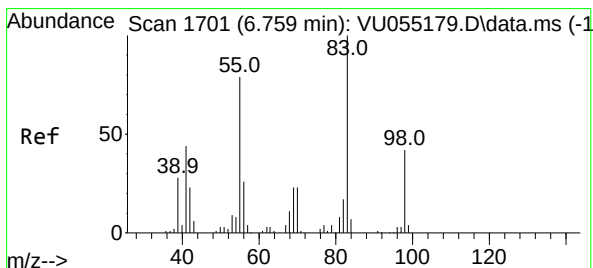
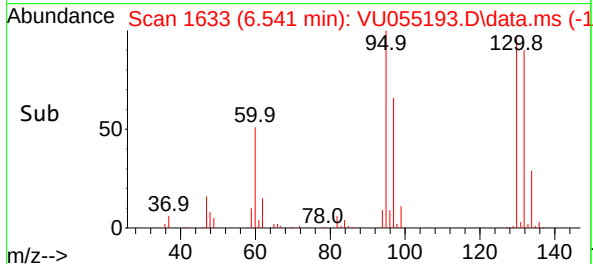
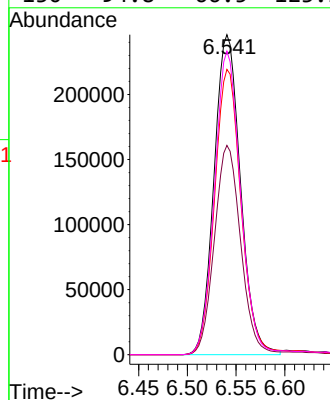
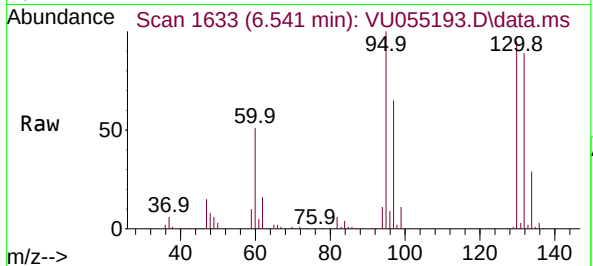




#34  
Trichloroethene  
Concen: 47.532 ug/L  
RT: 6.541 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

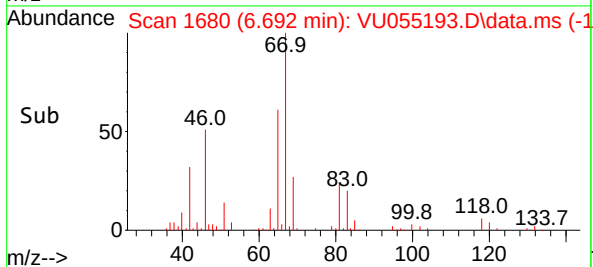
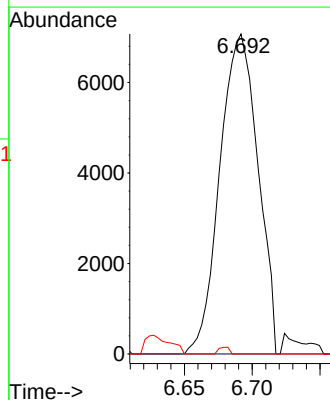
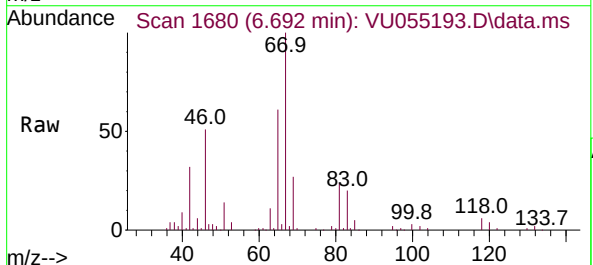
Instrument :  
MSVOA\_U  
ClientSampleId :

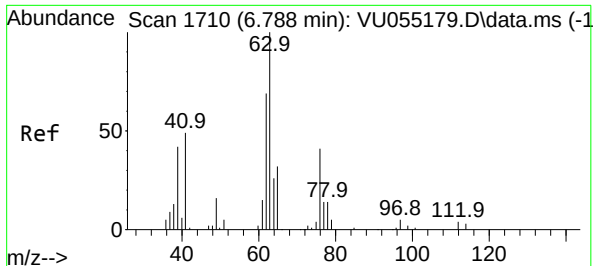
Tgt Ion: 95 Resp: 464537  
Ion Ratio Lower Upper  
95 100  
97 65.4 44.7 83.1  
132 89.2 66.6 123.6  
130 94.8 66.5 123.5



#35  
Methylcyclohexane  
Concen: 1.008 ug/L  
RT: 6.692 min Scan# 1680  
Delta R.T. -0.068 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Tgt Ion: 83 Resp: 13816  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.4 90.6#  
98 7.6 35.3 52.9#

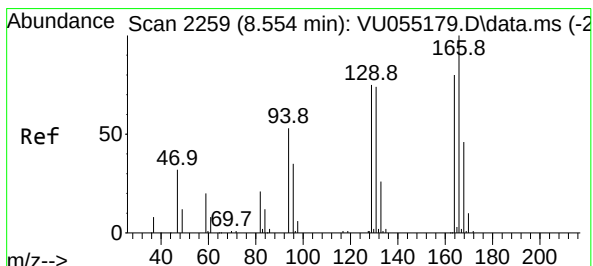
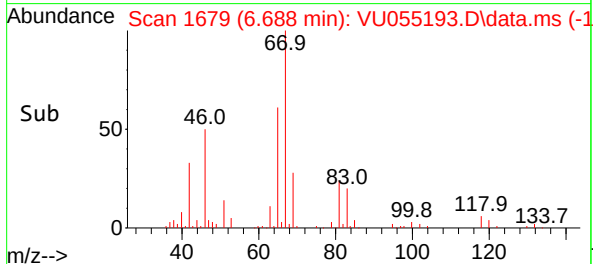
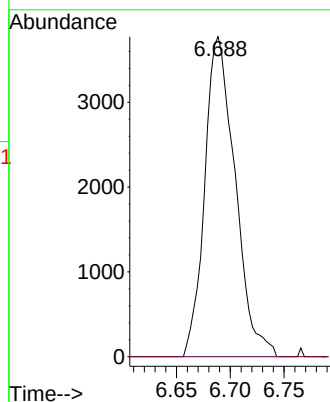
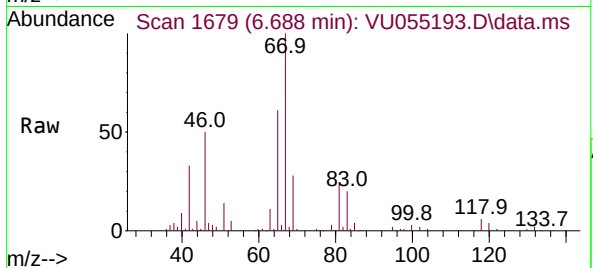




#37  
1,2-Dichloropropane  
Concen: 0.776 ug/L  
RT: 6.688 min Scan# 1  
Delta R.T. -0.100 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

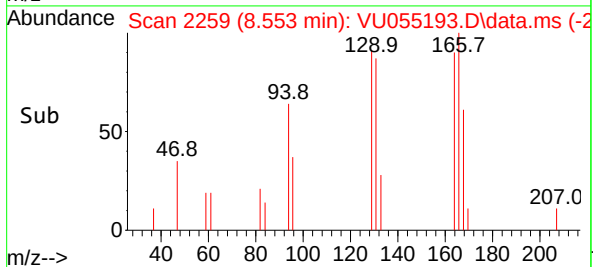
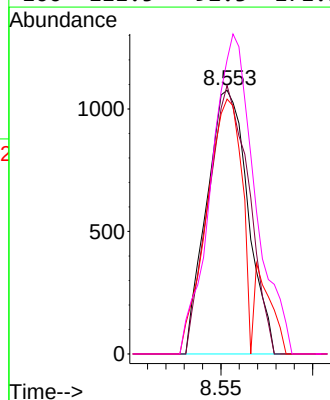
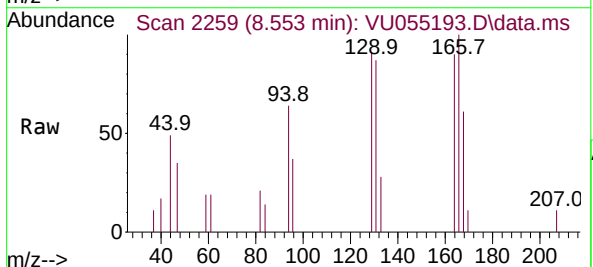
Instrument :  
MSVOA\_U  
ClientSampleId :

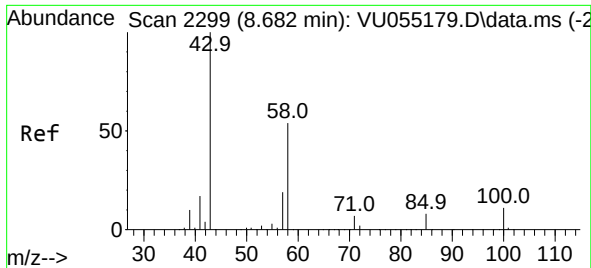
Tgt Ion: 63 Resp: 7434  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.2 4.8#



#47  
Tetrachloroethene  
Concen: 0.248 ug/L  
RT: 8.553 min Scan# 2259  
Delta R.T. -0.000 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

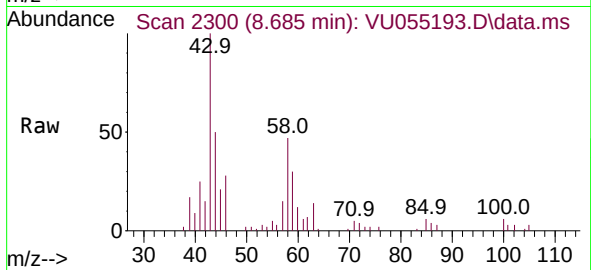
Tgt Ion:164 Resp: 1677  
Ion Ratio Lower Upper  
164 100  
129 101.9 69.2 128.6  
131 96.7 68.8 127.8  
166 111.5 92.3 171.5



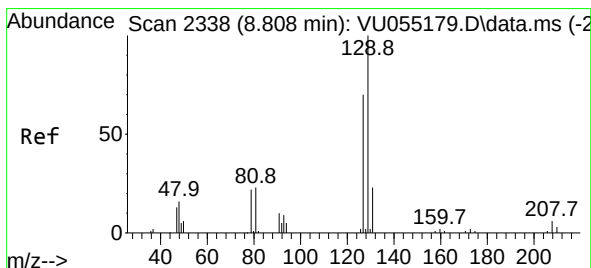
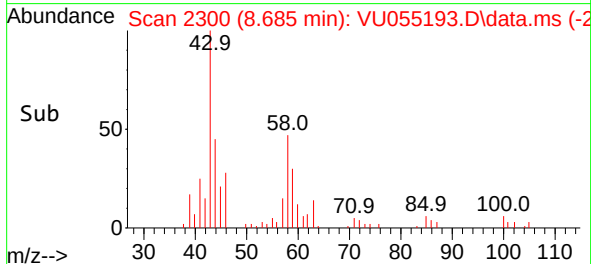
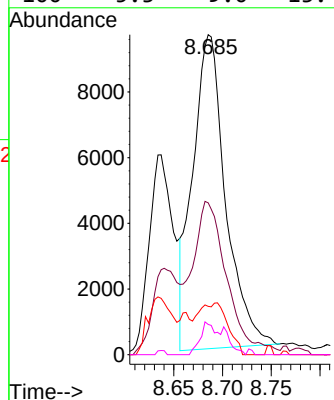


#48  
2-Hexanone  
Concen: 5.243 ug/L  
RT: 8.685 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

Instrument :  
MSVOA\_U  
ClientSampleId :

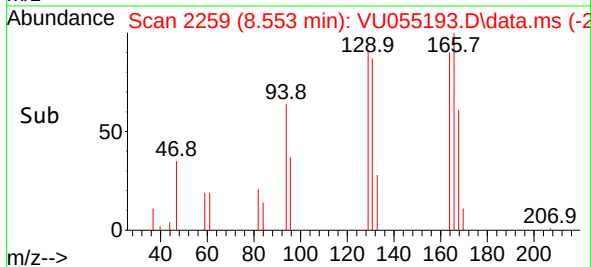
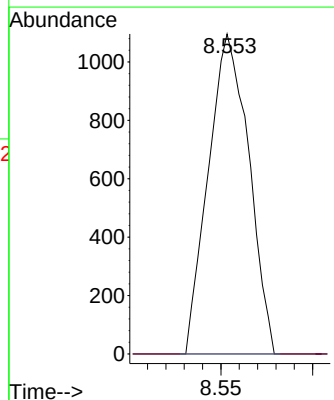
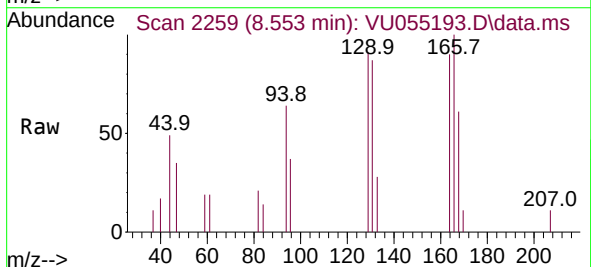


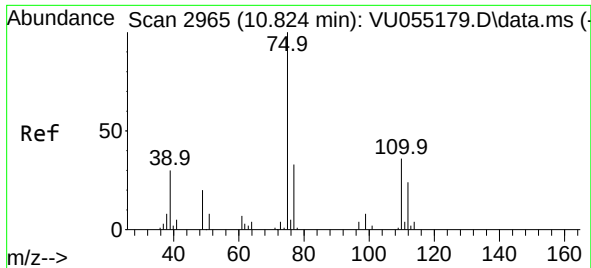
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22426 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 50.3  | 44.0  | 66.0  |
| 57       | 14.8  | 16.2  | 24.2# |
| 100      | 5.3   | 9.0   | 13.4# |



#49  
Dibromochloromethane  
Concen: 0.238 ug/L  
RT: 8.553 min Scan# 2259  
Delta R.T. -0.254 min  
Lab File: VU055193.D  
Acq: 07 Sep 2023 17:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 1677   |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.0   | 55.9  | 103.7# |





#61

1,2,3-Trichloropropane

Concen: 2.311 ug/L

RT: 11.810 min Scan# 31

Delta R.T. 0.987 min

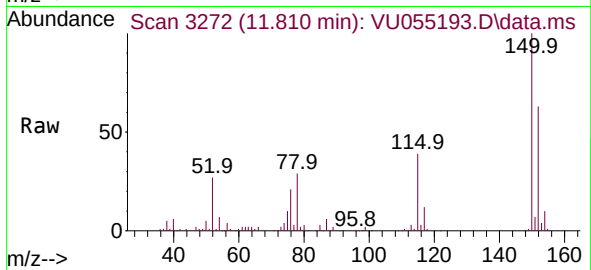
Lab File: VU055193.D

Acq: 07 Sep 2023 17:01

Instrument :

MSVOA\_U

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12671 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 2.3   | 28.2  | 42.2# |
| 77       | 31.9  | 26.2  | 39.4  |

