

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100323\  
 Data File : VU055649.D  
 Acq On : 03 Oct 2023 18:59  
 Operator : MD/SY  
 Sample : 04679-12DL 40X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PMW-8D(20230928)DL

Quant Time: Oct 04 04:46:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR091923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Oct 04 04:40:48 2023  
 Response via : Initial Calibration

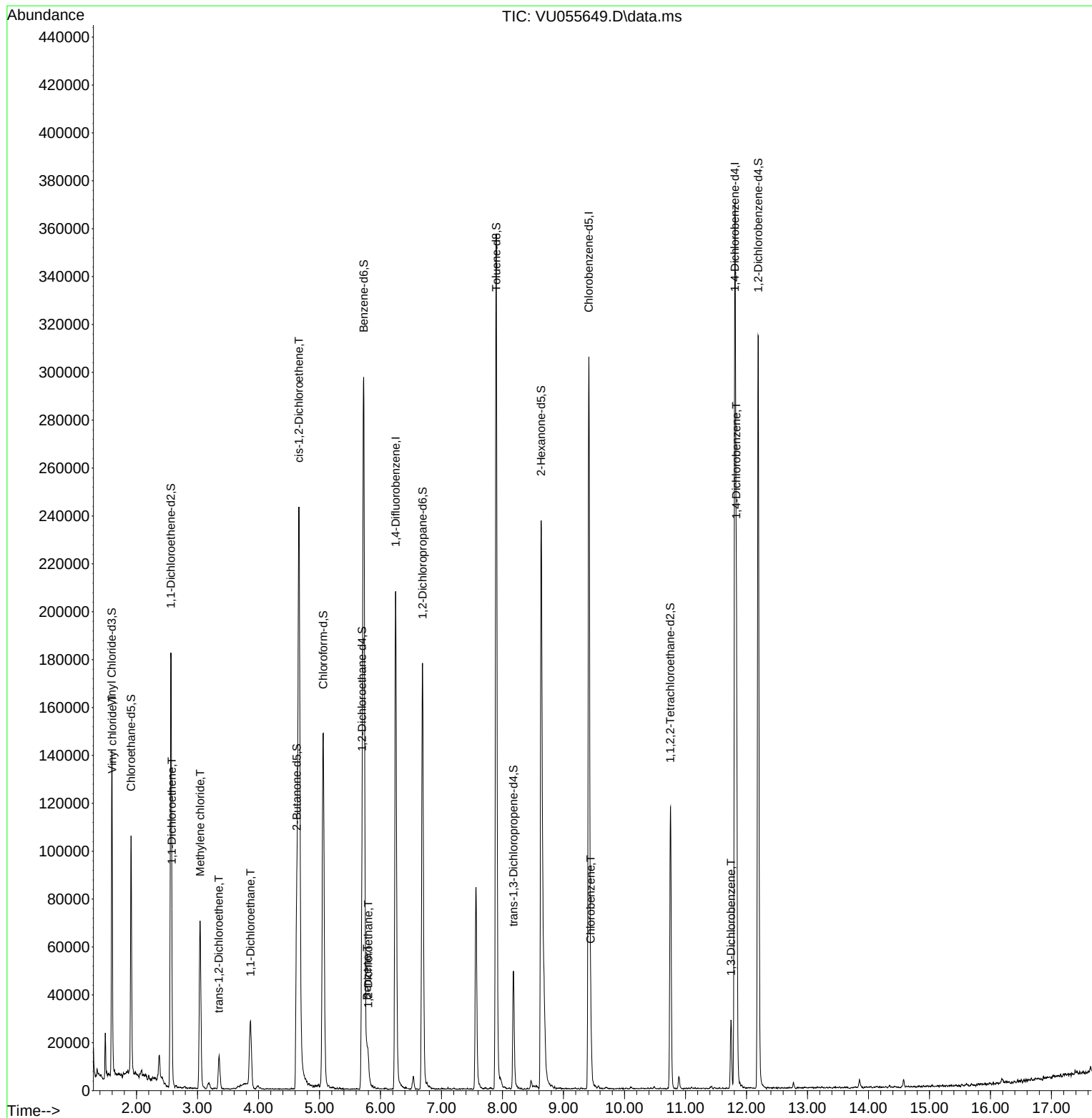
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.248  | 114   | 172291   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 175535   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.811 | 152   | 92303    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 86702    | 4.979    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 99.600%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 69230    | 4.511    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 35348    | 4.932    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 98.600%  |
| 20) 2-Butanone-d5             | 4.628  | 46    | 138089   | 43.904   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 87.800%  |
| 24) Chloroform-d              | 5.062  | 84    | 141750   | 4.500    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 69087    | 4.560    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.200%  |
| 32) Benzene-d6                | 5.724  | 84    | 290910   | 4.738    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.689  | 67    | 87468    | 4.768    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.400%  |
| 41) Toluene-d8                | 7.898  | 98    | 246283   | 4.401    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.000%  |
| 43) trans-1,3-Dichloroprop... | 8.180  | 79    | 29806    | 4.630    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 92.600%  |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 74513    | 38.052   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 76.100%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 62350    | 4.535    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.193 | 152   | 85355    | 4.582    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 91.600%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.602  | 62    | 10076    | 0.633    | ug/L   | 88       |
| 12) 1,1-Dichloroethene        | 2.579  | 96    | 2016     | 0.167    | ug/L # | 1        |
| 16) Methylene chloride        | 3.042  | 84    | 33184    | 2.299    | ug/L   | 87       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 4971     | 0.409    | ug/L   | 90       |
| 19) 1,1-Dichloroethane        | 3.869  | 63    | 33541    | 1.494    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 118427   | 8.413    | ug/L   | 96       |
| 27) 1,2-Dichloroethane        | 5.798  | 62    | 8103     | 0.556    | ug/L # | 83       |
| 33) Benzene                   | 5.779  | 78    | 10217    | 0.202    | ug/L   | 100      |
| 51) Chlorobenzene             | 9.447  | 112   | 13521    | 0.392    | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146   | 11294    | 0.443    | ug/L   | 90       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146   | 73177    | 2.875    | ug/L   | 100      |
| -----                         |        |       |          |          |        |          |

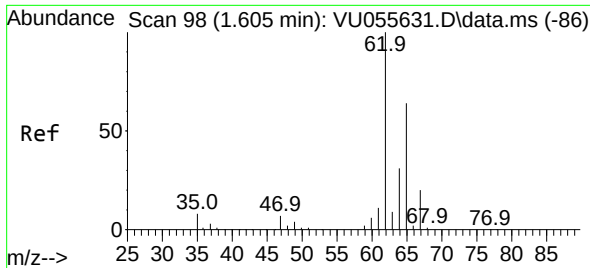
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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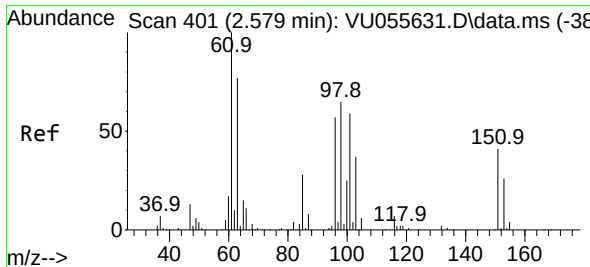
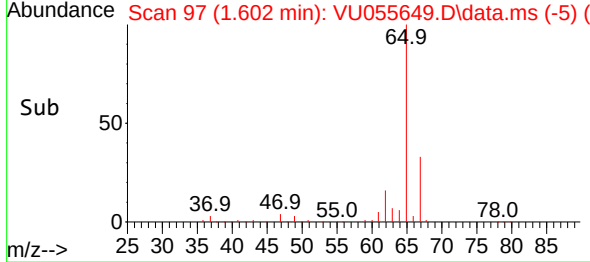
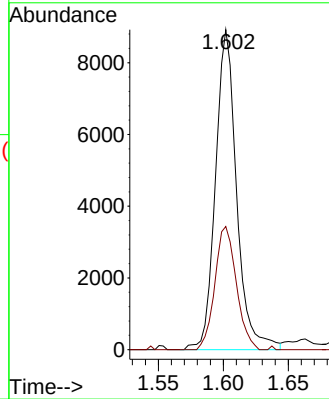
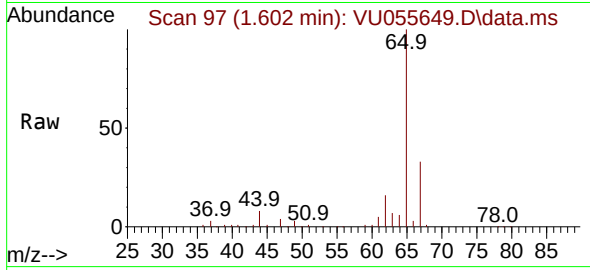




#5  
 Vinyl chloride  
 Concen: 0.633 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. -0.003 min  
 Lab File: VU055649.D  
 Acq: 03 Oct 2023 18:59

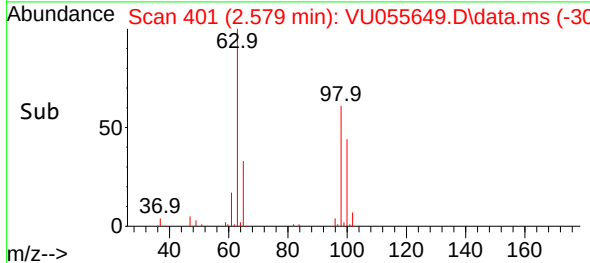
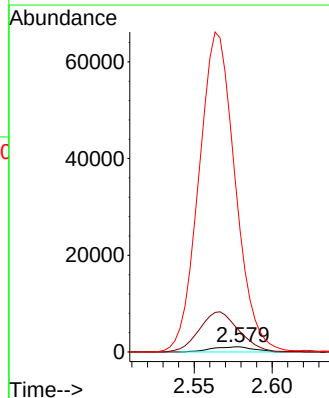
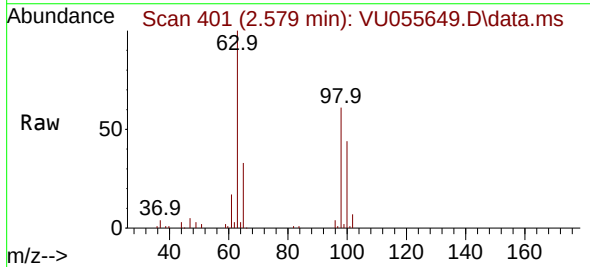
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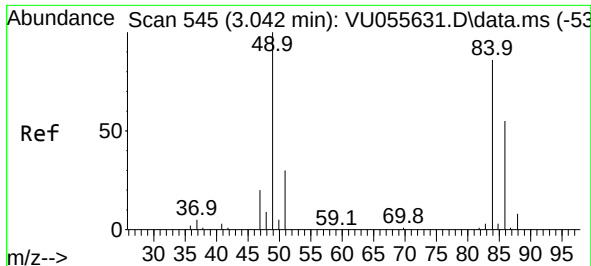
Tgt Ion: 62 Resp: 10076  
 Ion Ratio Lower Upper  
 62 100  
 64 38.5 22.3 41.5



#12  
 1,1-Dichloroethene  
 Concen: 0.167 ug/L  
 RT: 2.579 min Scan# 401  
 Delta R.T. 0.000 min  
 Lab File: VU055649.D  
 Acq: 03 Oct 2023 18:59

Tgt Ion: 96 Resp: 2016  
 Ion Ratio Lower Upper  
 96 100  
 61 393.1 114.5 212.7#  
 63 2365.5 98.3 182.5#

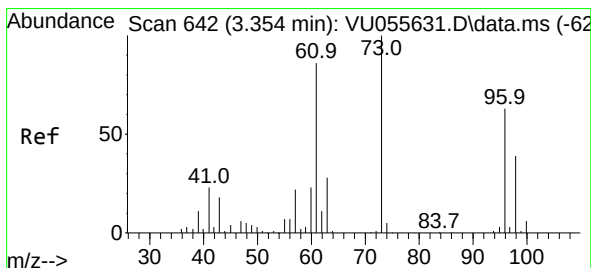
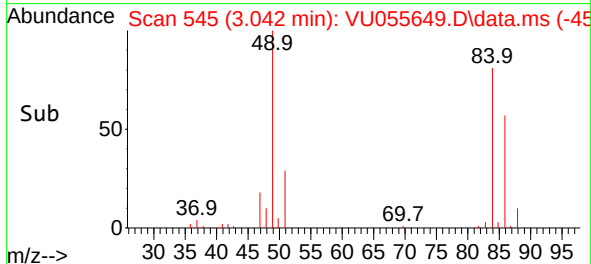
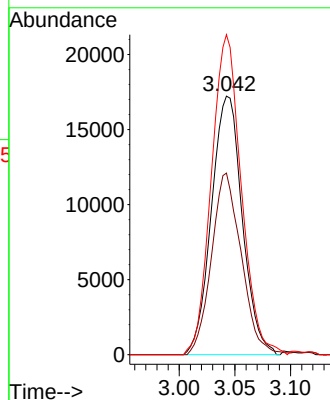
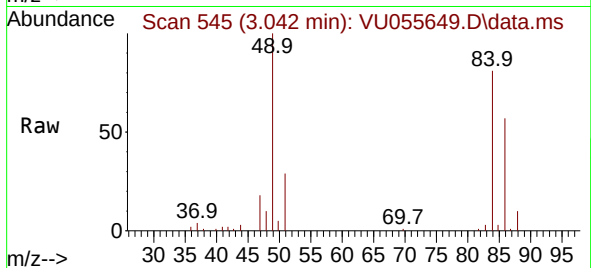




#16  
Methylene chloride  
Concen: 2.299 ug/L  
RT: 3.042 min Scan# 54  
Delta R.T. 0.000 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

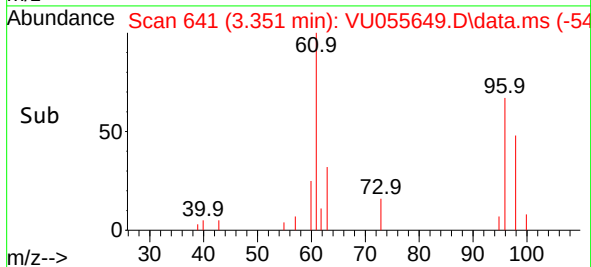
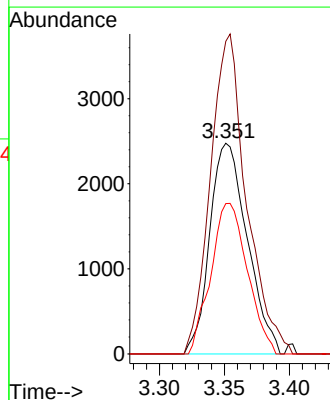
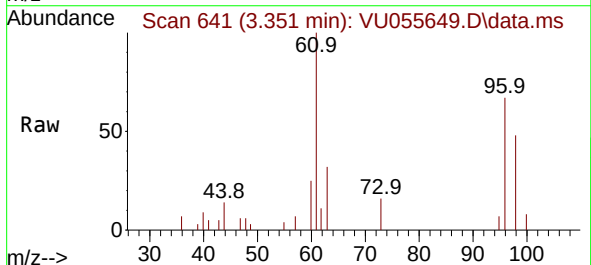
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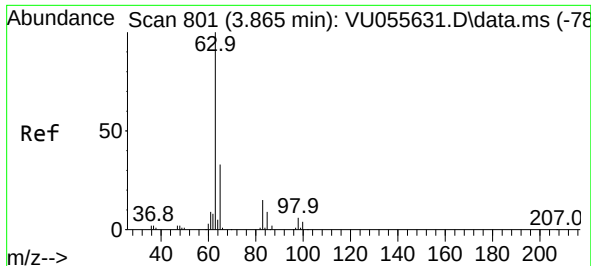
Tgt Ion: 84 Resp: 33184  
Ion Ratio Lower Upper  
84 100  
86 70.2 44.9 83.3  
49 129.4 78.8 146.3



#18  
trans-1,2-Dichloroethene  
Concen: 0.409 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. -0.003 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

Tgt Ion: 96 Resp: 4971  
Ion Ratio Lower Upper  
96 100  
61 148.3 94.6 175.6  
98 71.4 45.7 84.9





#19

1,1-Dichloroethane

Concen: 1.494 ug/L

RT: 3.869 min Scan# 801

Delta R.T. 0.003 min

Lab File: VU055649.D

Acq: 03 Oct 2023 18:59

Instrument :

MSVOA\_U

ClientSampleId :

PMW-8D(20230928)DL

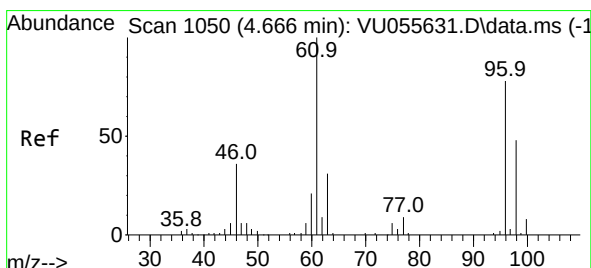
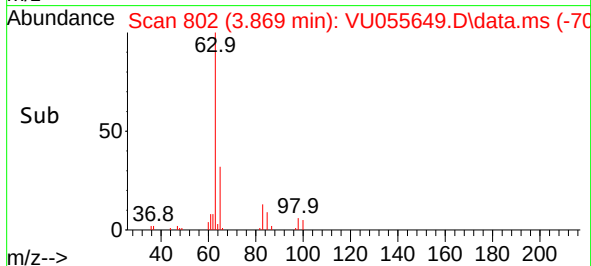
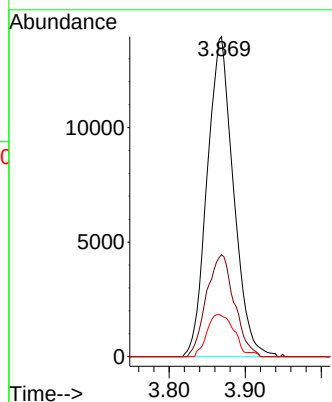
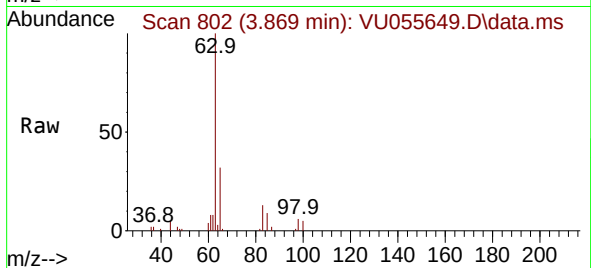
Tgt Ion: 63 Resp: 33541

Ion Ratio Lower Upper

63 100

65 31.8 22.0 41.0

83 12.8 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 8.413 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.003 min

Lab File: VU055649.D

Acq: 03 Oct 2023 18:59

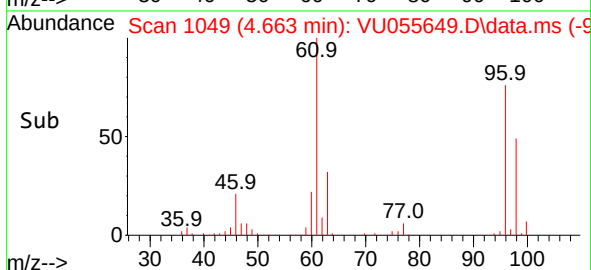
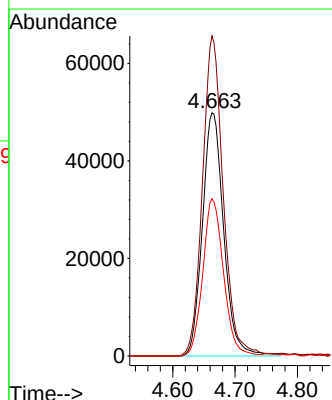
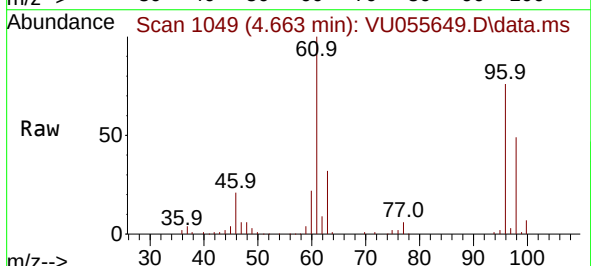
Tgt Ion: 96 Resp: 118427

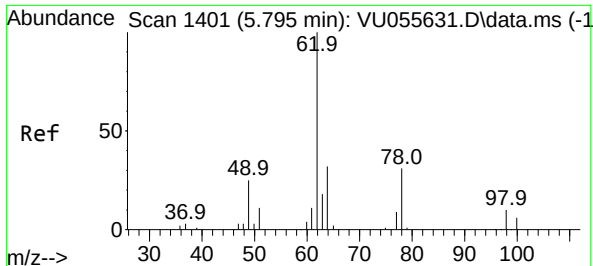
Ion Ratio Lower Upper

96 100

61 131.6 87.8 163.2

98 64.7 44.4 82.4

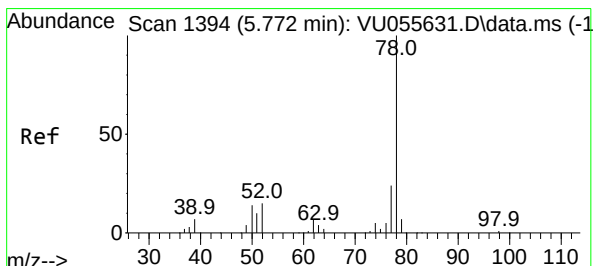
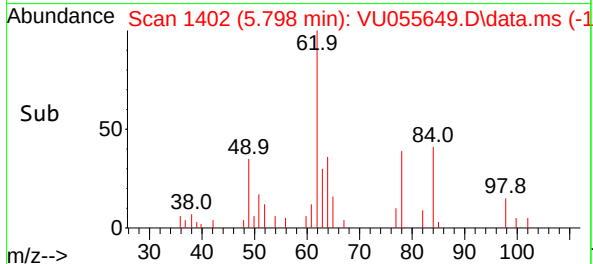
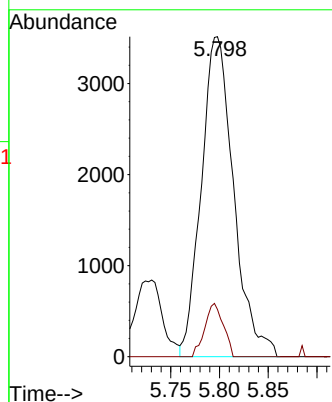
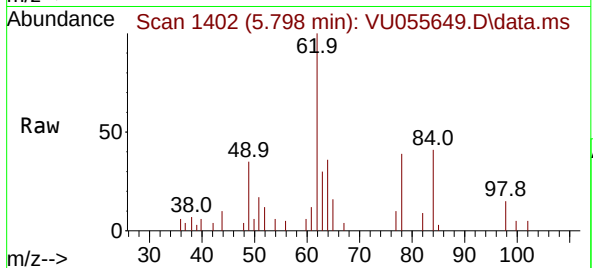




#27  
1,2-Dichloroethane  
Concen: 0.556 ug/L  
RT: 5.798 min Scan# 1401  
Delta R.T. 0.003 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

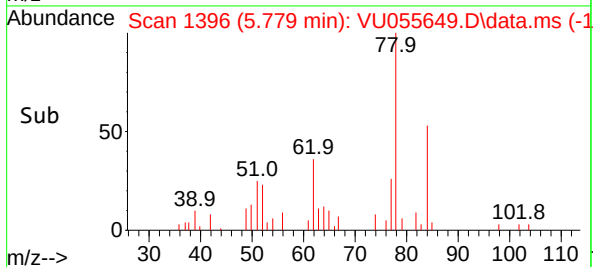
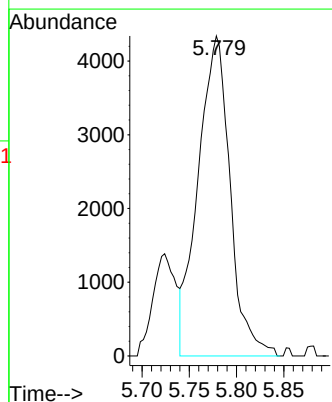
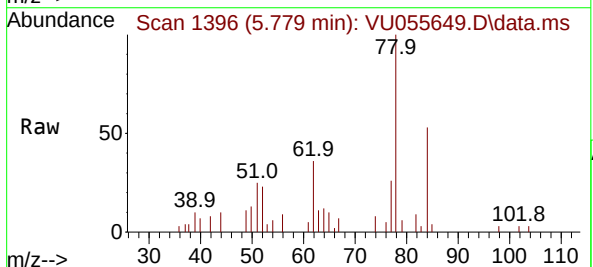
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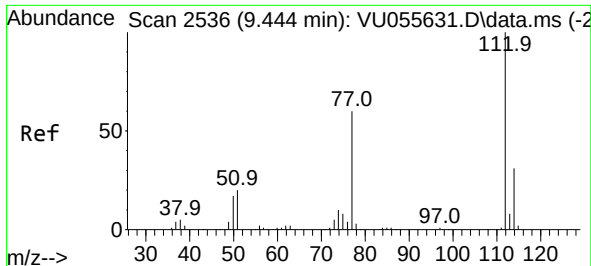
Tgt Ion: 62 Resp: 8103  
Ion Ratio Lower Upper  
62 100  
98 14.8 7.0 10.4#



#33  
Benzene  
Concen: 0.202 ug/L  
RT: 5.779 min Scan# 1396  
Delta R.T. 0.007 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

Tgt Ion: 78 Resp: 10217

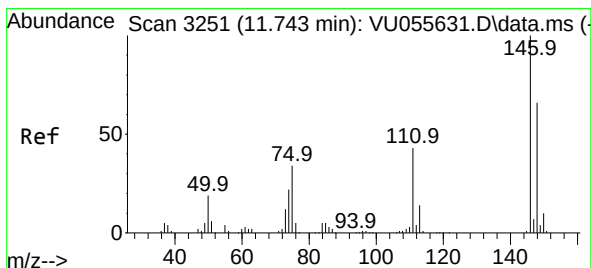
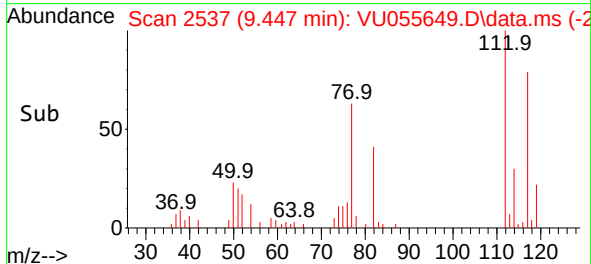
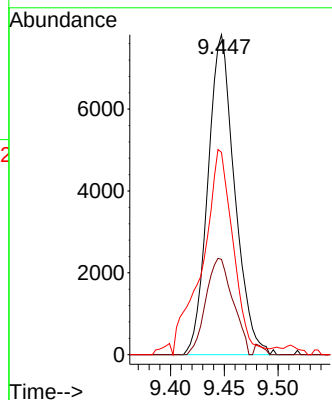
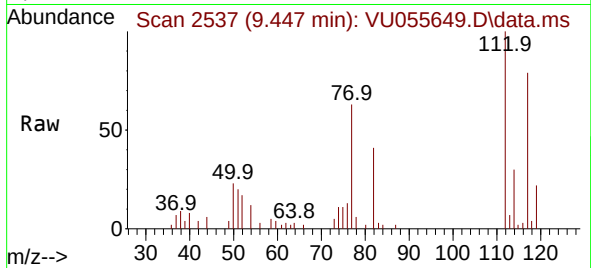




#51  
Chlorobenzene  
Concen: 0.392 ug/L  
RT: 9.447 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

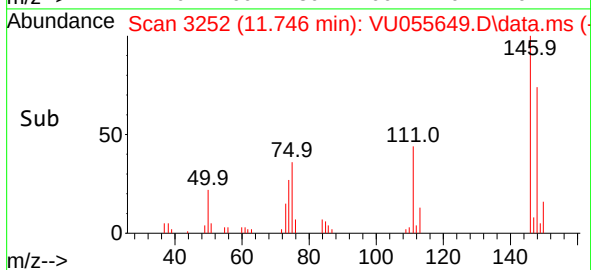
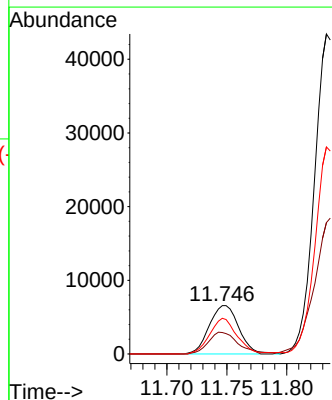
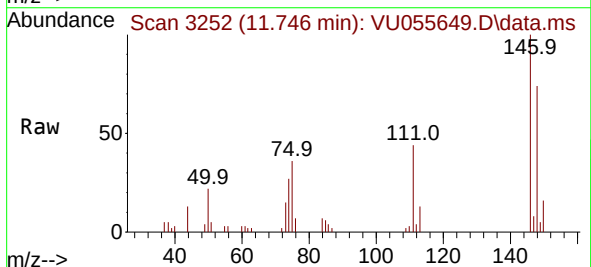
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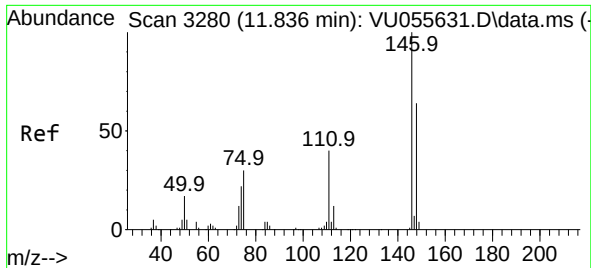
Tgt Ion:112 Resp: 13521  
Ion Ratio Lower Upper  
112 100  
114 29.8 22.0 40.8  
77 63.2 46.9 70.3



#64  
1,3-Dichlorobenzene  
Concen: 0.443 ug/L  
RT: 11.746 min Scan# 3252  
Delta R.T. 0.003 min  
Lab File: VU055649.D  
Acq: 03 Oct 2023 18:59

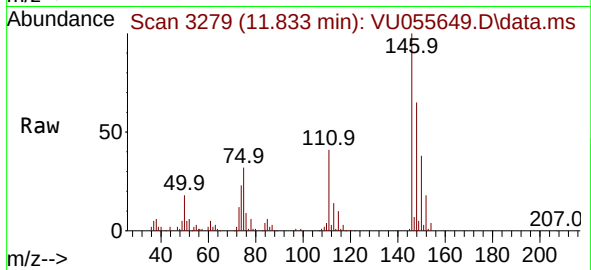
Tgt Ion:146 Resp: 11294  
Ion Ratio Lower Upper  
146 100  
111 44.3 28.8 53.6  
148 74.0 44.6 82.8





#65  
 1,4-Dichlorobenzene  
 Concen: 2.875 ug/L  
 RT: 11.833 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VU055649.D  
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 73177 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.1  | 29.0  | 53.8  |
| 148       | 64.7  | 45.4  | 84.4  |

