

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090523\  
 Data File : VU055122.D  
 Acq On : 06 Sep 2023 03:02  
 Operator : MD/SY  
 Sample : 04267-05  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 06 05:27:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR090123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Sep 06 05:03:37 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.248  | 114   | 182959   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.418  | 117   | 188392   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810 | 152   | 96636    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 34386    | 4.010    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 80.200%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 43363    | 4.369    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 87.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 21992    | 4.501    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 90.000%  |
| 20) 2-Butanone-d5             | 4.624  | 46    | 131897   | 53.005   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 106.020% |
| 24) Chloroform-d              | 5.061  | 84    | 108790   | 4.781    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.701  | 65    | 56249    | 4.941    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.800%  |
| 32) Benzene-d6                | 5.724  | 84    | 207779   | 4.468    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67    | 69980    | 4.731    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.600%  |
| 41) Toluene-d8                | 7.897  | 98    | 181330   | 4.233    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.600%  |
| 43) trans-1,3-Dichloroprop... | 8.180  | 79    | 16269    | 3.994    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 79.800%  |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 80831    | 48.881   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 97.760%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.756 | 84    | 52904    | 5.086    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 101.800% |
| 66) 1,2-Dichlorobenzene-d4    | 12.193 | 152   | 66914    | 4.744    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.515  | 50    | 2663     | 0.246    | ug/L   | 96       |
| 5) Vinyl chloride             | 1.599  | 62    | 4214     | 0.369    | ug/L # | 1        |
| 8) Chloroethane               | 1.907  | 64    | 3312     | 0.445    | ug/L # | 54       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 3975     | 0.470    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 3.364  | 73    | 4521     | 0.204    | ug/L # | 86       |
| 19) 1,1-Dichloroethane        | 3.869  | 63    | 1922     | 0.104    | ug/L # | 87       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 53480    | 5.091    | ug/L   | 91       |
| 25) Chloroform                | 5.087  | 83    | 13172    | 0.682    | ug/L   | 99       |
| 34) Trichloroethene           | 6.540  | 95    | 98246    | 8.817    | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.692  | 83    | 16321    | 1.044    | ug/L # | 23       |
| 37) 1,2-Dichloropropane       | 6.685  | 63    | 7980     | 0.731    | ug/L # | 90       |
| 48) 2-Hexanone                | 8.685  | 43    | 16490    | 3.381    | ug/L # | 94       |
| 49) Dibromochloromethane      | 8.553  | 129   | 934      | 0.116    | ug/L # | 9        |
| 61) 1,2,3-Trichloropropane    | 11.810 | 75    | 13897    | 2.167    | ug/L # | 70       |
| 69) 1,3,5-Trichlorobenzene    | 13.842 | 180   | 11967    | 0.732    | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.842 | 180   | 11967    | 0.781    | ug/L   | 99       |

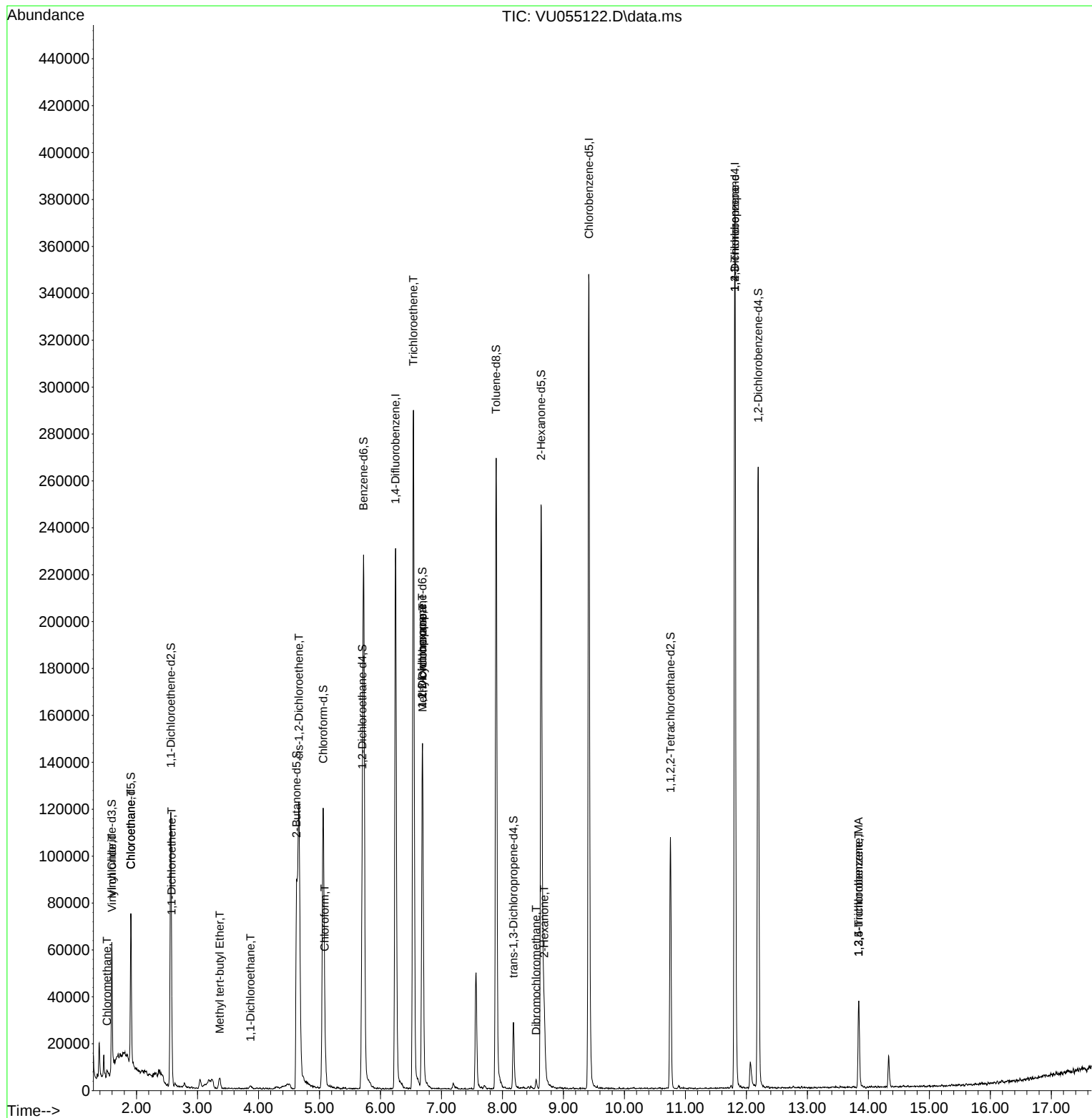
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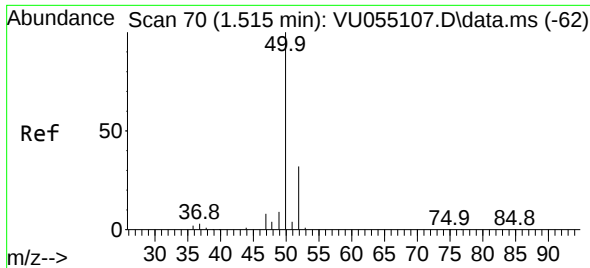
Instrument :  
MSVOA\_U  
ClientSampleId :

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090523\  
Data File : VU055122.D  
Acq On : 06 Sep 2023 03:02  
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Sample : 04267-05  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Sep 06 05:27:30 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR090123WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Sep 06 05:03:37 2023  
Response via : Initial Calibration

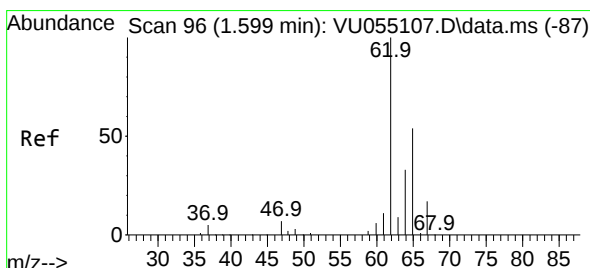
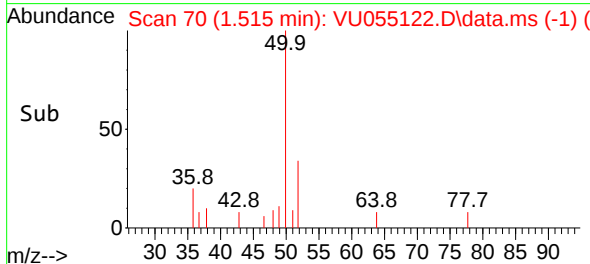
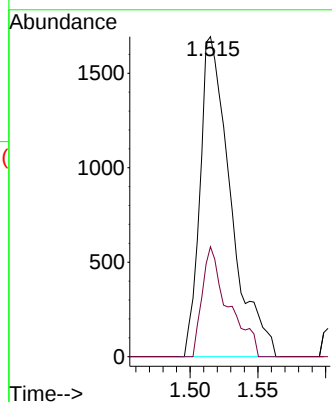
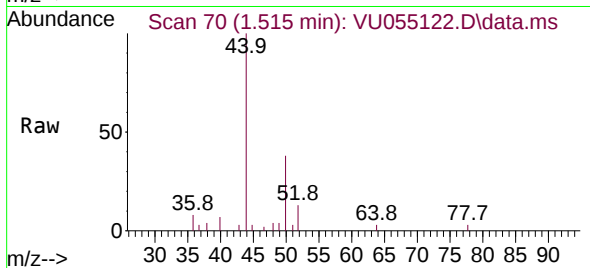




#3  
Chloromethane  
Concen: 0.246 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

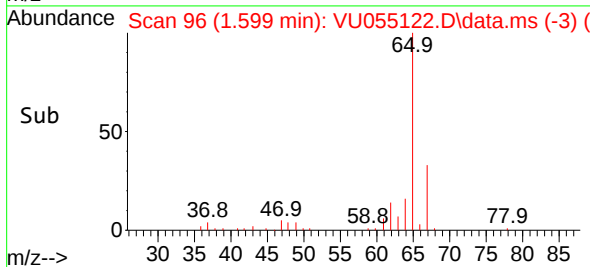
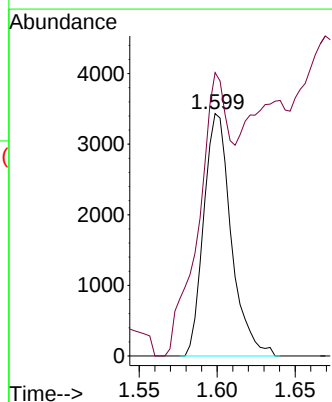
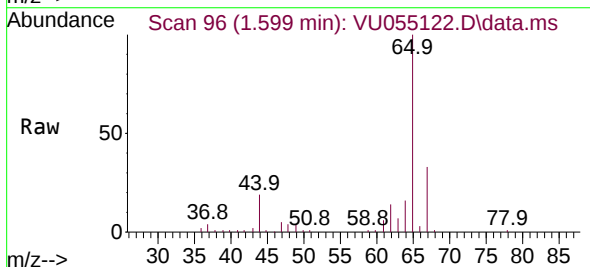
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MSVOA\_U  
ClientSampleId :

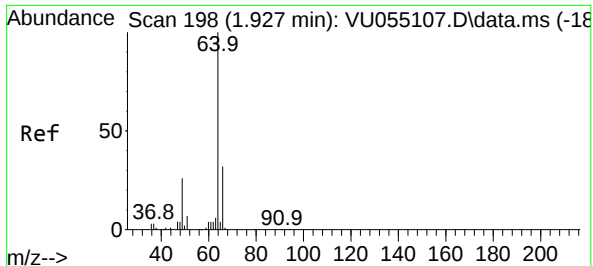
Tgt Ion: 50 Resp: 2663  
Ion Ratio Lower Upper  
50 100  
52 34.4 22.5 41.7



#5  
Vinyl chloride  
Concen: 0.369 ug/L  
RT: 1.599 min Scan# 96  
Delta R.T. -0.000 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

Tgt Ion: 62 Resp: 4214  
Ion Ratio Lower Upper  
62 100  
64 116.9 24.2 45.0#

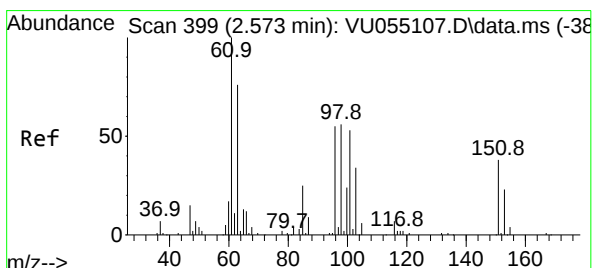
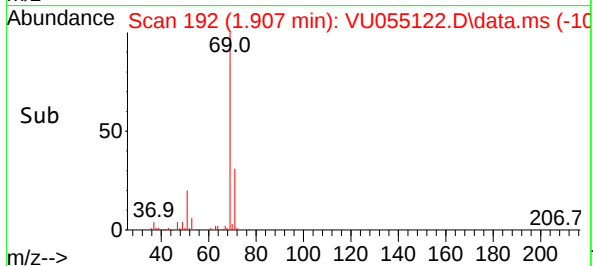
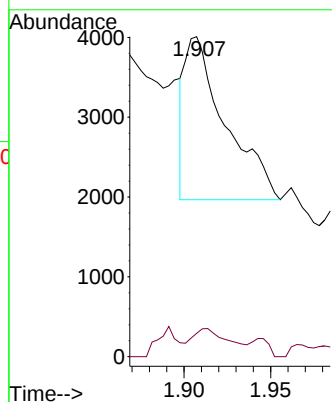
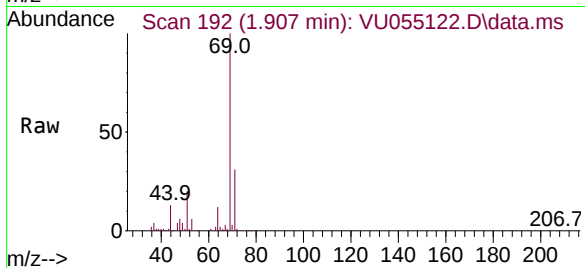




#8  
Chloroethane  
Concen: 0.445 ug/L  
RT: 1.907 min Scan# 19  
Delta R.T. -0.019 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

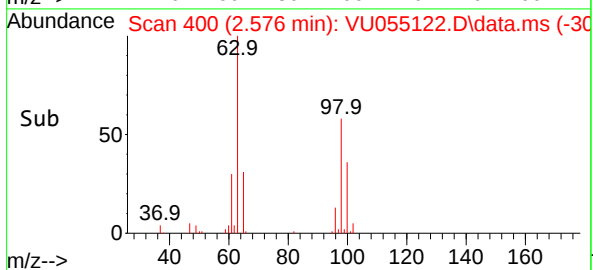
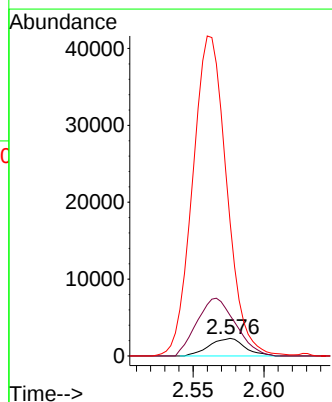
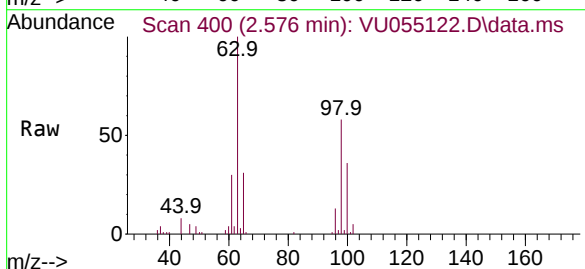
Instrument :  
MSVOA\_U  
ClientSampleId :

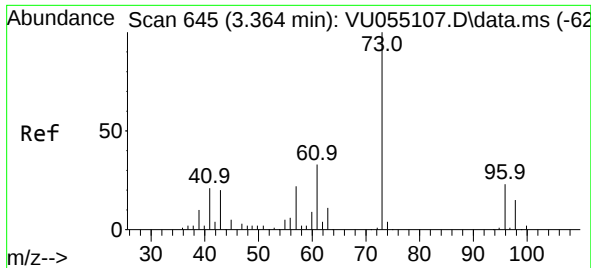
Tgt Ion: 64 Resp: 3312  
Ion Ratio Lower Upper  
64 100  
66 6.3 22.4 41.6#



#12  
1,1-Dichloroethene  
Concen: 0.470 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. 0.003 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

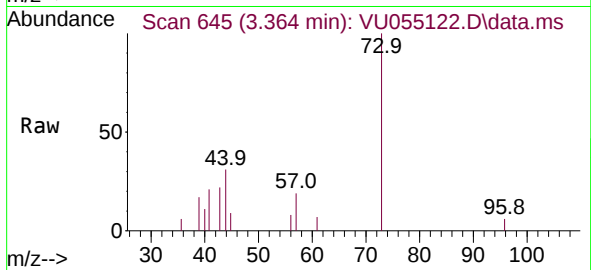
Tgt Ion: 96 Resp: 3975  
Ion Ratio Lower Upper  
96 100  
61 231.2 120.8 224.4#  
63 761.4 94.5 175.5#



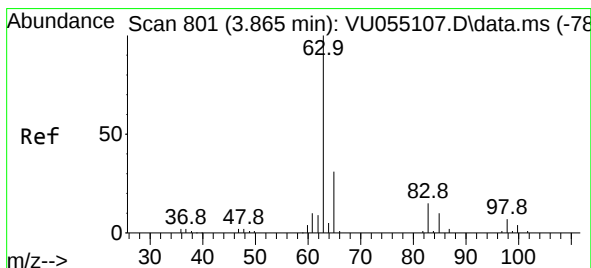
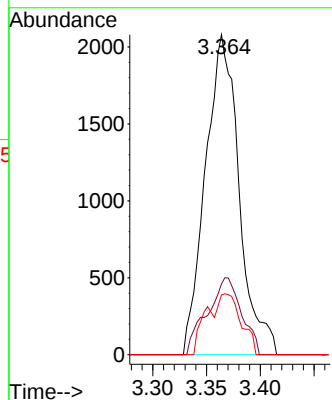
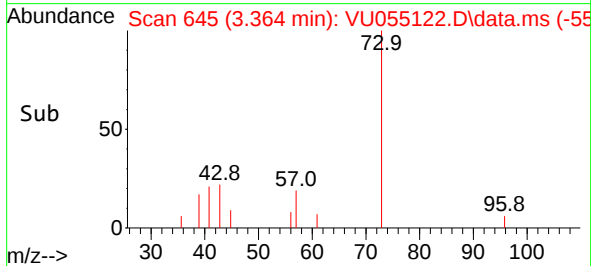


#17  
Methyl tert-butyl Ether  
Concen: 0.204 ug/L  
RT: 3.364 min Scan# 645  
Delta R.T. -0.000 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

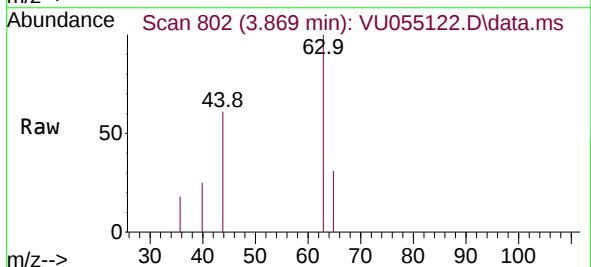
Instrument :  
MSVOA\_U  
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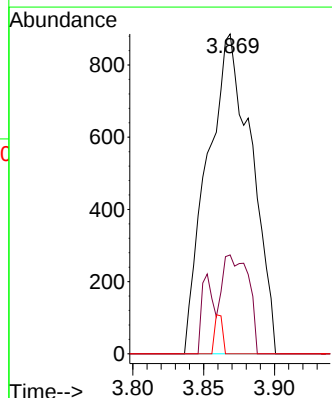
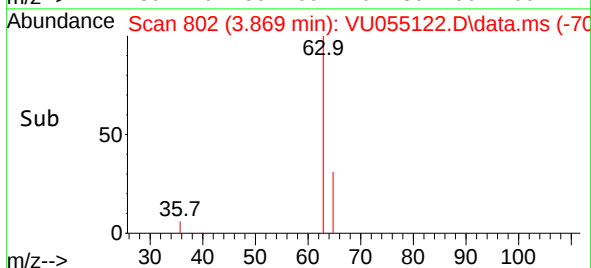
Tgt Ion: 73 Resp: 4521  
Ion Ratio Lower Upper  
73 100  
43 24.6 16.2 24.2#  
57 13.1 17.4 26.2#

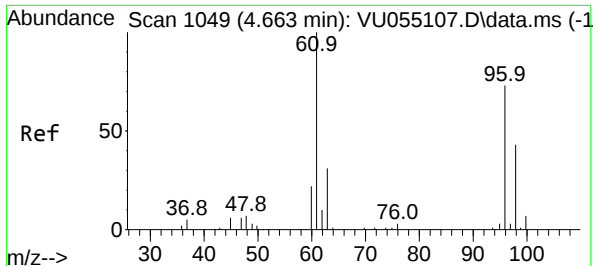


#19  
1,1-Dichloroethane  
Concen: 0.104 ug/L  
RT: 3.869 min Scan# 802  
Delta R.T. 0.003 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02



Tgt Ion: 63 Resp: 1922  
Ion Ratio Lower Upper  
63 100  
65 30.9 22.2 41.2  
83 0.0 10.6 19.8#





#22

cis-1,2-Dichloroethene

Concen: 5.091 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

Lab File: VU055122.D

Acq: 06 Sep 2023 03:02

Instrument :

MSVOA\_U

ClientSampleId :

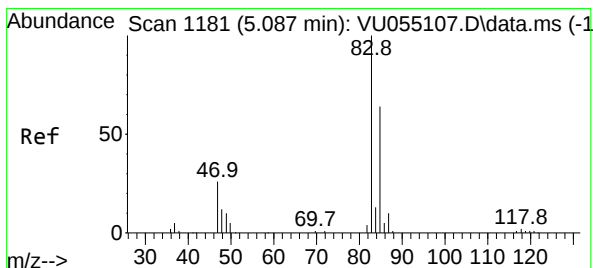
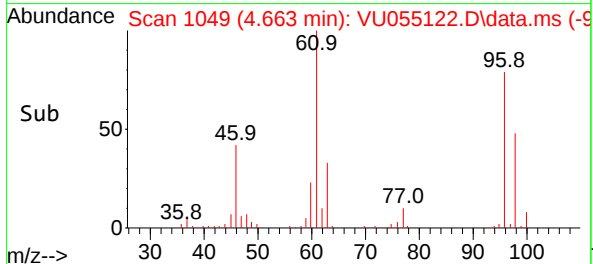
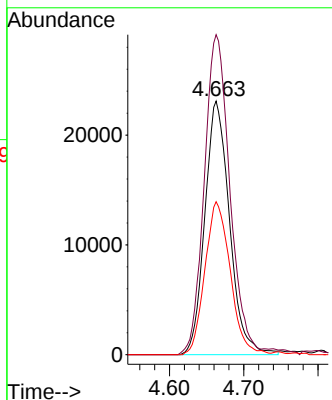
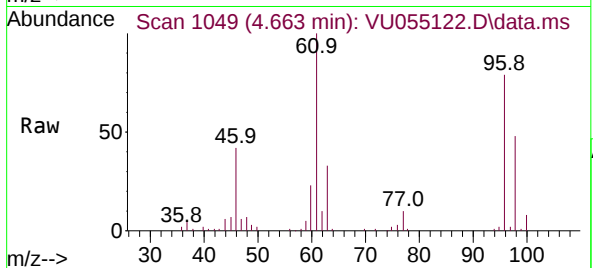
Tgt Ion: 96 Resp: 53480

Ion Ratio Lower Upper

96 100

61 126.2 97.2 180.4

98 60.3 46.1 85.7



#25

Chloroform

Concen: 0.682 ug/L

RT: 5.087 min Scan# 1181

Delta R.T. -0.000 min

Lab File: VU055122.D

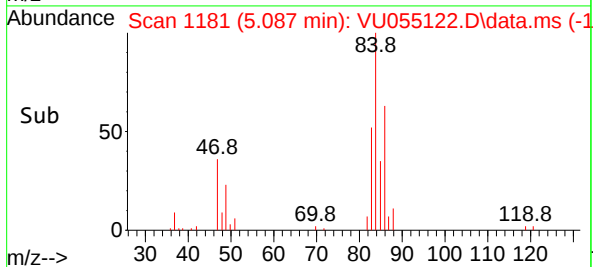
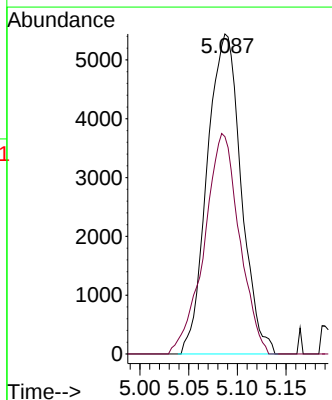
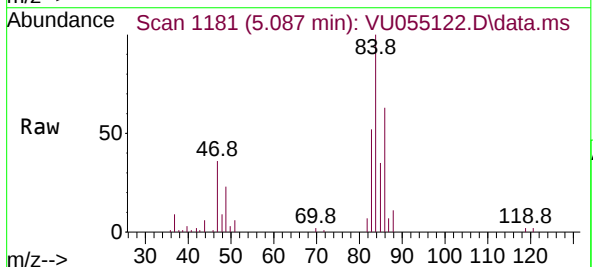
Acq: 06 Sep 2023 03:02

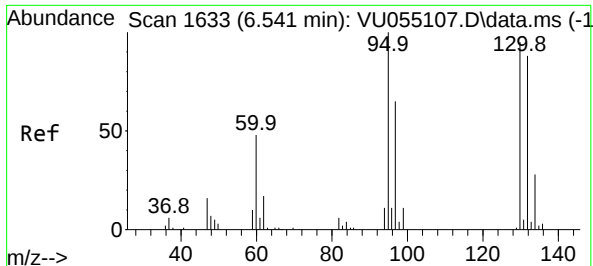
Tgt Ion: 83 Resp: 13172

Ion Ratio Lower Upper

83 100

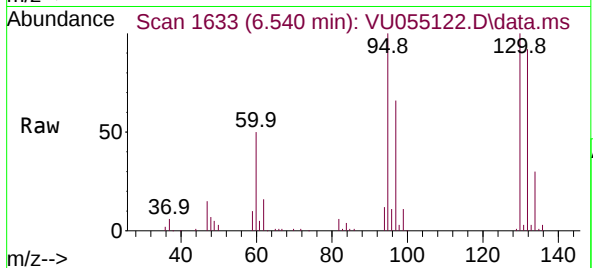
85 67.9 47.2 87.6



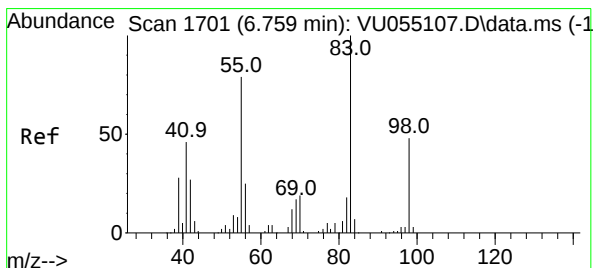
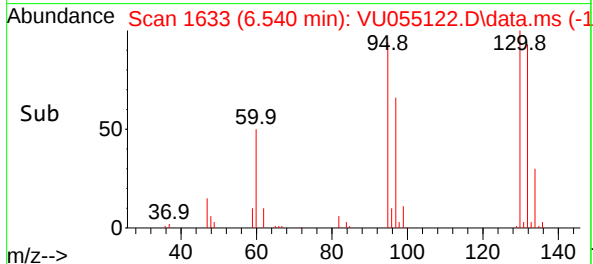
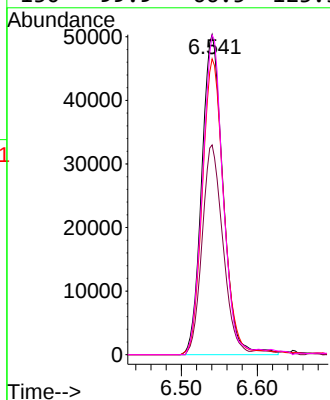


#34  
Trichloroethene  
Concen: 8.817 ug/L  
RT: 6.540 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

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ClientSampleId :

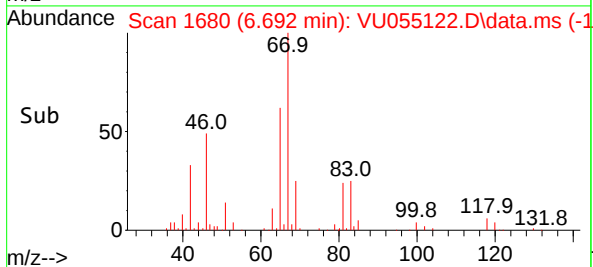
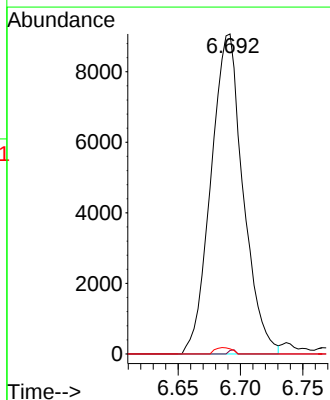
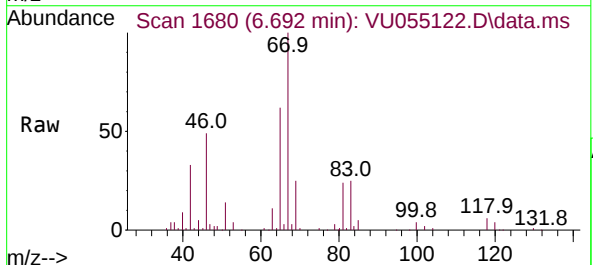


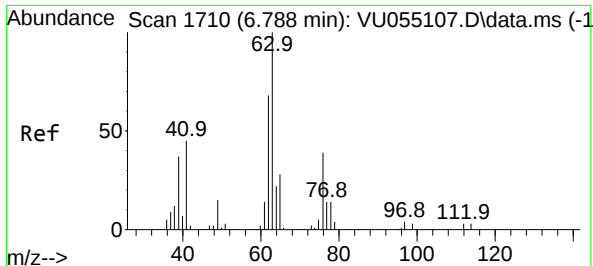
| Tgt Ion: | 95    | Resp: | 98246 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 65.6  | 44.7  | 83.1  |
| 132      | 92.5  | 66.6  | 123.6 |
| 130      | 99.9  | 66.5  | 123.5 |



#35  
Methylcyclohexane  
Concen: 1.044 ug/L  
RT: 6.692 min Scan# 1680  
Delta R.T. -0.068 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

| Tgt Ion: | 83    | Resp: | 16321 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.3   | 60.4  | 90.6# |
| 98       | 7.2   | 35.3  | 52.9# |

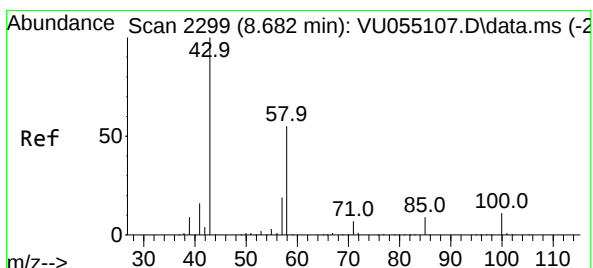
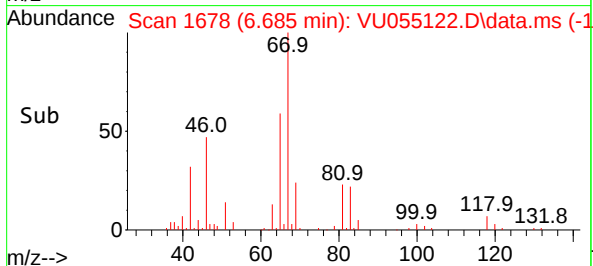
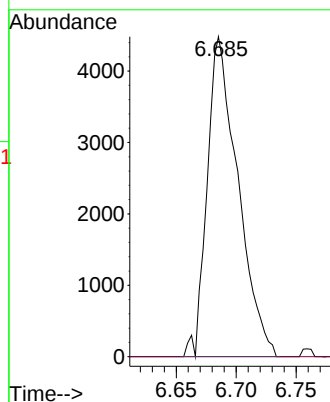
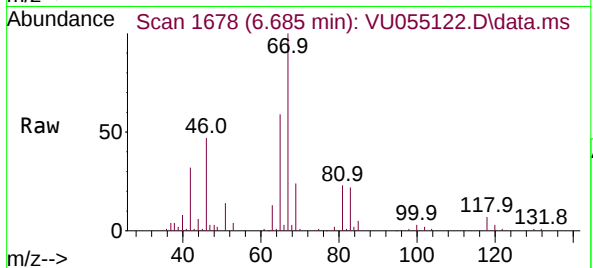




#37  
1,2-Dichloropropane  
Concen: 0.731 ug/L  
RT: 6.685 min Scan# 11  
Delta R.T. -0.103 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

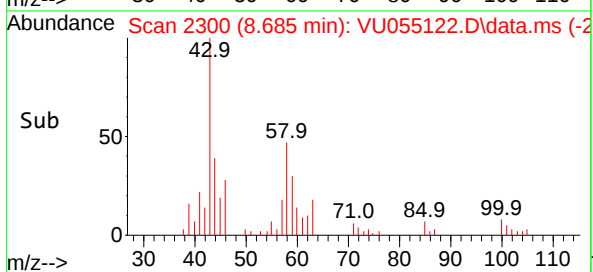
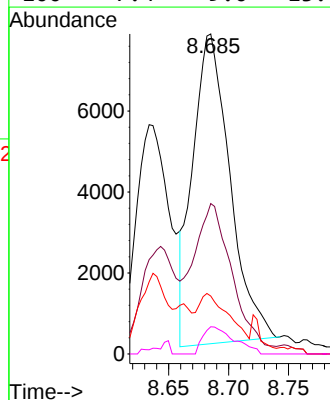
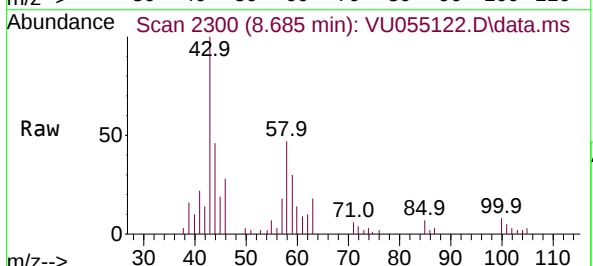
Instrument :  
MSVOA\_U  
ClientSampleId :

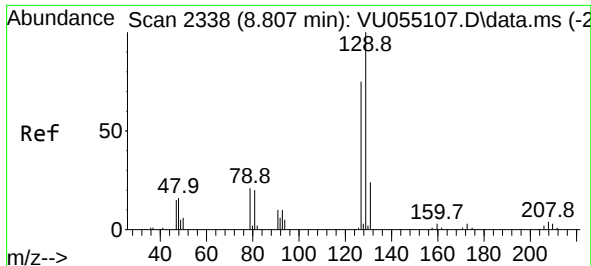
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Ion Ratio Lower Upper  
63 100  
112 0.6 3.2 4.8#



#48  
2-Hexanone  
Concen: 3.381 ug/L  
RT: 8.685 min Scan# 2300  
Delta R.T. 0.003 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

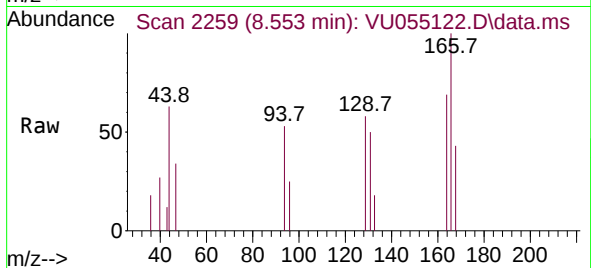
Tgt Ion: 43 Resp: 16490  
Ion Ratio Lower Upper  
43 100  
58 52.2 44.0 66.0  
57 16.2 16.2 24.2  
100 7.4 9.0 13.4#



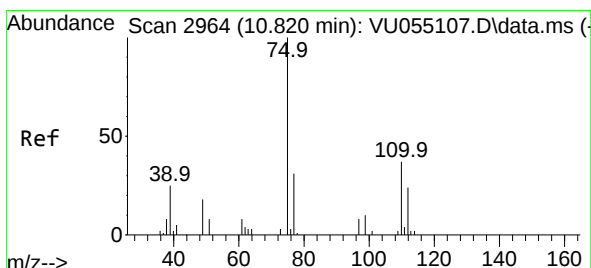
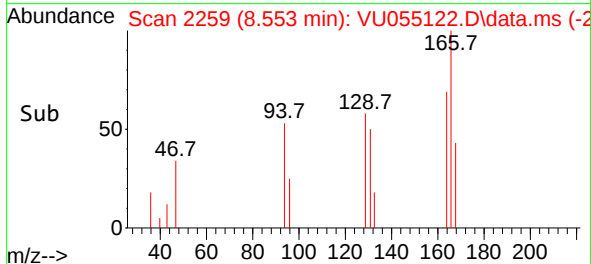
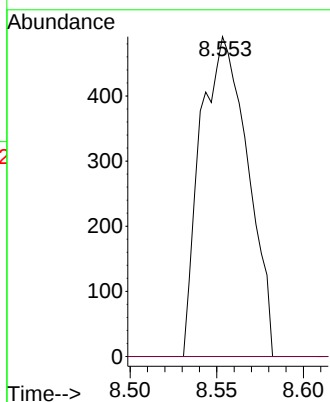


#49  
Dibromochloromethane  
Concen: 0.116 ug/L  
RT: 8.553 min Scan# 21  
Delta R.T. -0.254 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

Instrument :  
MSVOA\_U  
ClientSampleId :

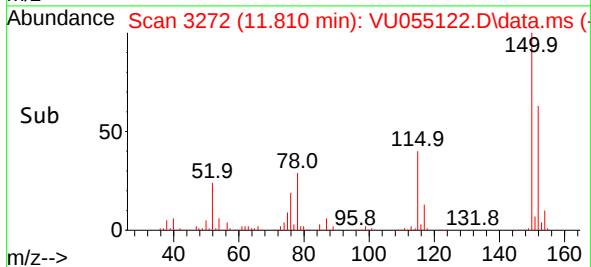
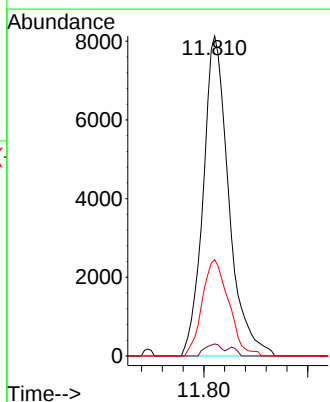
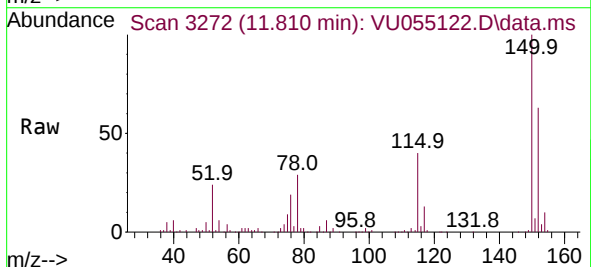


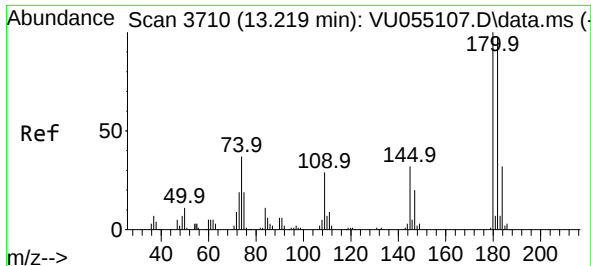
Tgt Ion:129 Resp: 934  
Ion Ratio Lower Upper  
129 100  
127 0.0 55.9 103.7#



#61  
1,2,3-Trichloropropane  
Concen: 2.167 ug/L  
RT: 11.810 min Scan# 3272  
Delta R.T. 0.990 min  
Lab File: VU055122.D  
Acq: 06 Sep 2023 03:02

Tgt Ion: 75 Resp: 13897  
Ion Ratio Lower Upper  
75 100  
110 2.4 28.2 42.2#  
77 31.2 26.2 39.4





#69

1,3,5-Trichlorobenzene

Concen: 0.732 ug/L

RT: 13.842 min Scan# 3904

Delta R.T. 0.624 min

Lab File: VU055122.D

Acq: 06 Sep 2023 03:02

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion:180 Resp: 11967

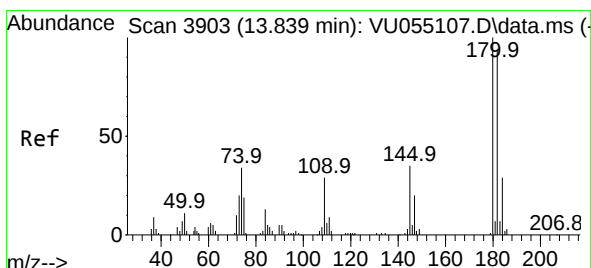
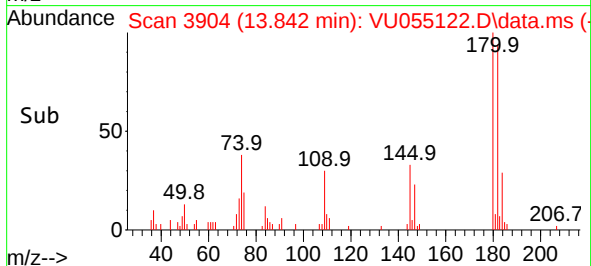
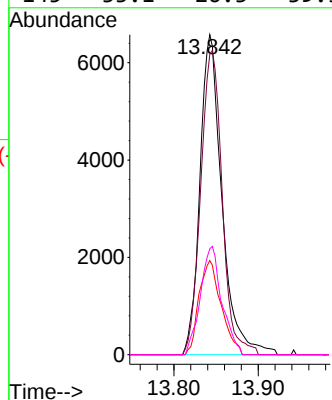
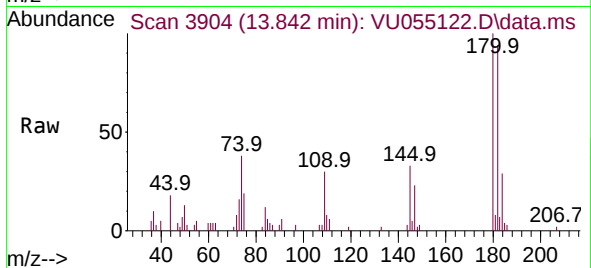
Ion Ratio Lower Upper

180 100

182 92.6 75.8 113.6

184 29.5 24.0 36.0

145 33.1 26.3 39.5



#70

1,2,4-trichlorobenzene

Concen: 0.781 ug/L

RT: 13.842 min Scan# 3904

Delta R.T. 0.003 min

Lab File: VU055122.D

Acq: 06 Sep 2023 03:02

Tgt Ion:180 Resp: 11967

Ion Ratio Lower Upper

180 100

182 92.6 73.6 110.4

145 33.1 25.8 38.8

