

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011725\  
 Data File : VU062898.D  
 Acq On : 18 Jan 2025 02:28  
 Operator : MD/SY  
 Sample : Q1086-19  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 18 03:34:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR010225WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jan 17 23:41:19 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 6.238  | 114  | 91930    | 5.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.409  | 117  | 88071    | 5.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.804 | 152  | 40647    | 5.000 | ug/L  | 0.00     |

## System Monitoring Compounds

|                               |        |       |          |          |      |          |
|-------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3          | 1.592  | 65    | 15362    | 3.017    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =    | 60.400%  |
| 7) Chloroethane-d5            | 1.901  | 69    | 17937    | 4.379    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =    | 87.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 7716     | 2.925    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =    | 58.600%# |
| 20) 2-Butanone-d5             | 4.608  | 46    | 53896    | 51.793   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =    | 103.580% |
| 24) Chloroform-d              | 5.052  | 84    | 60320    | 4.815    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 96.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.692  | 65    | 34657    | 5.101    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 102.000% |
| 32) Benzene-d6                | 5.717  | 84    | 101237   | 4.702    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =    | 94.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.679  | 67    | 28785    | 4.822    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =    | 96.400%  |
| 41) Toluene-d8                | 7.888  | 98    | 57872    | 2.759    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =    | 55.200%# |
| 43) trans-1,3-Dichloroprop... | 8.171  | 79    | 12595    | 4.233    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =    | 84.600%  |
| 46) 2-Hexanone-d5             | 8.621  | 63    | 43148    | 46.109   | ug/L | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =    | 92.220%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.746 | 84    | 24303    | 4.862    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =    | 97.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.183 | 152   | 33725    | 4.987    | ug/L | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =    | 99.800%  |

## Target Compounds

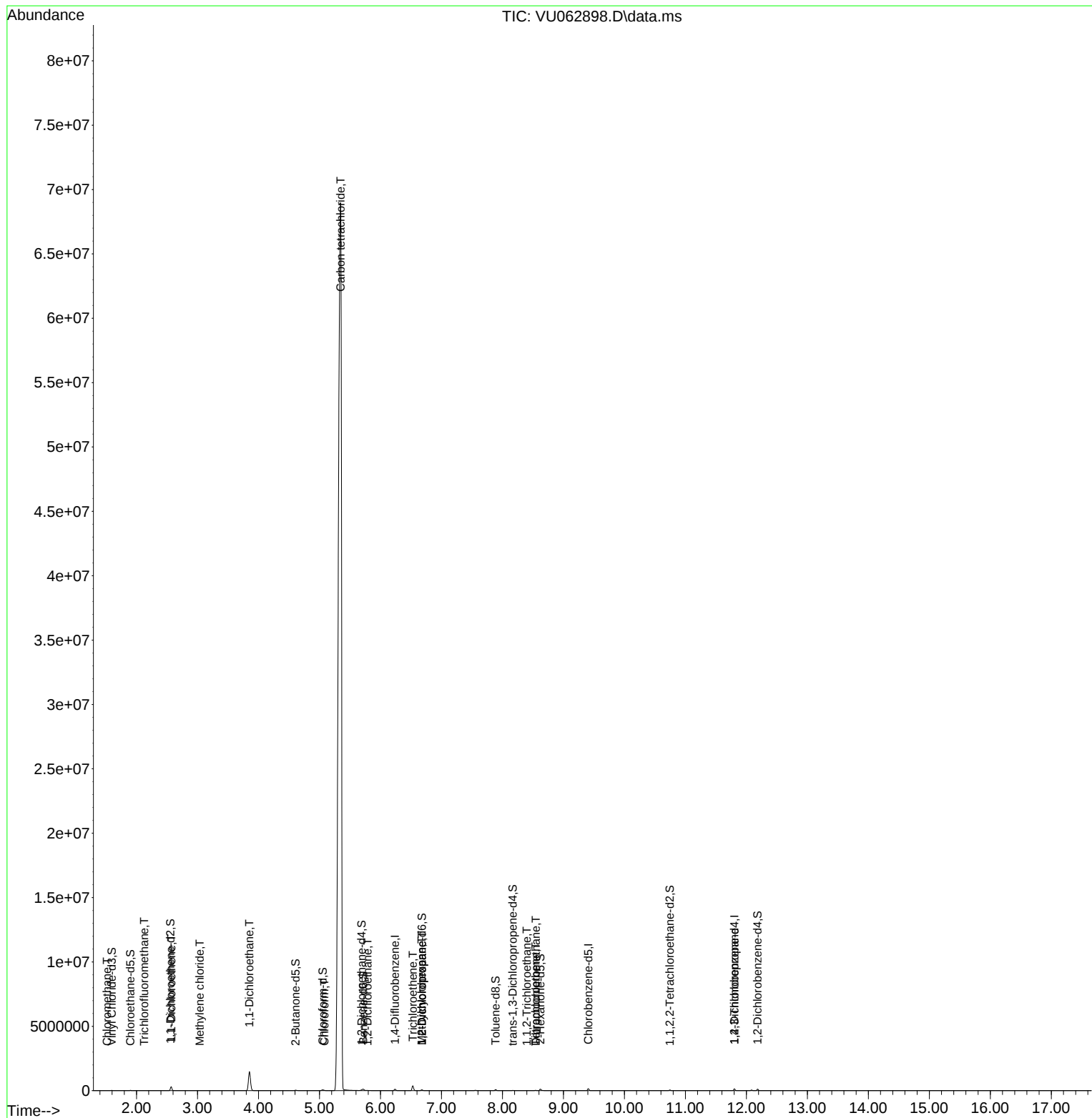
|                            |        |     |          |         |        | Qvalue |
|----------------------------|--------|-----|----------|---------|--------|--------|
| 3) Chloromethane           | 1.515  | 50  | 981      | 0.167   | ug/L   | 99     |
| 9) Trichlorofluoromethane  | 2.126  | 101 | 2403     | 0.180   | ug/L   | 97     |
| 12) 1,1-Dichloroethene     | 2.570  | 96  | 101845   | 17.846  | ug/L # | 76     |
| 16) Methylene chloride     | 3.036  | 84  | 1013     | 0.162   | ug/L   | 89     |
| 19) 1,1-Dichloroethane     | 3.853  | 63  | 1616584  | 147.882 | ug/L   | 96     |
| 25) Chloroform             | 5.081  | 83  | 15015    | 1.116   | ug/L   | 93     |
| 27) 1,2-Dichloroethane     | 5.788  | 62  | 10158    | 1.155   | ug/L # | 91     |
| 31) Carbon tetrachloride   | 5.344  | 117 | 11659236 | 949.665 | ug/L   | 99     |
| 34) Trichloroethene        | 6.531  | 95  | 127689   | 14.772  | ug/L   | 98     |
| 35) Methylcyclohexane      | 6.676  | 83  | 7875     | 0.740   | ug/L # | 23     |
| 37) 1,2-Dichloropropane    | 6.679  | 63  | 4067     | 0.681   | ug/L # | 85     |
| 45) 1,1,2-Trichloroethane  | 8.402  | 97  | 567      | 0.117   | ug/L # | 76     |
| 47) Tetrachloroethene      | 8.544  | 164 | 5687     | 0.955   | ug/L   | 94     |
| 49) Dibromochloromethane   | 8.547  | 129 | 5929     | 0.911   | ug/L # | 12     |
| 61) 1,2,3-Trichloropropane | 11.804 | 75  | 3980     | 1.104   | ug/L # | 61     |

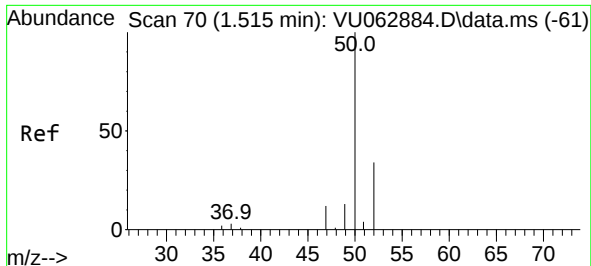
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011725\  
Data File : VU062898.D  
Acq On : 18 Jan 2025 02:28  
Operator : MD/SY  
Sample : Q1086-19  
Misc : 25mL/MSVOA\_U/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jan 18 03:34:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR010225WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Jan 17 23:41:19 2025  
Response via : Initial Calibration

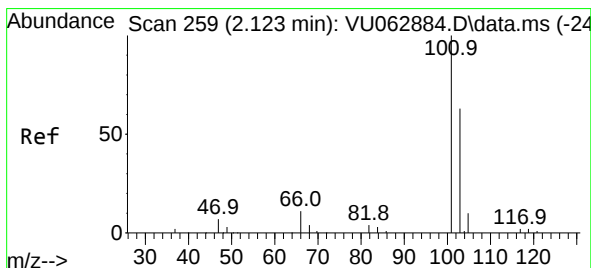
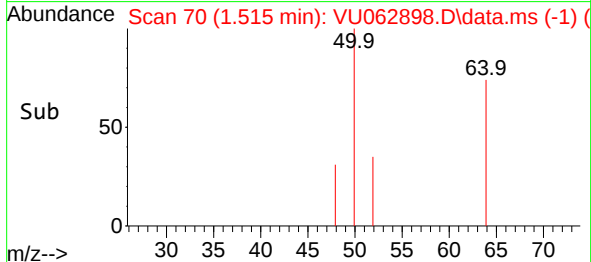
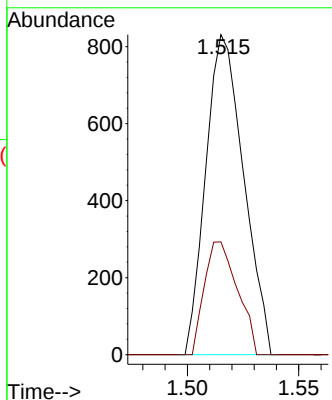
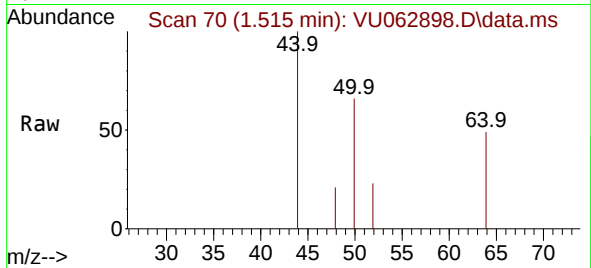




#3  
Chloromethane  
Concen: 0.167 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. -0.000 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

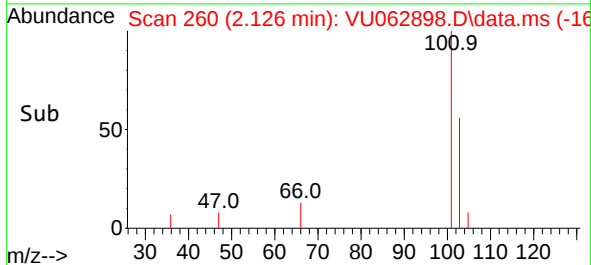
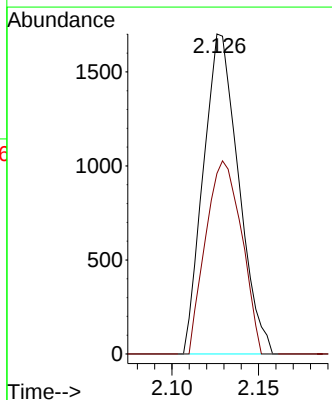
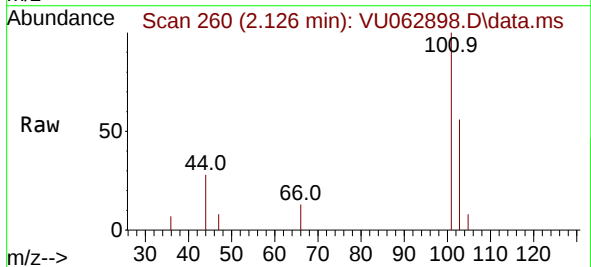
Instrument :  
MSVOA\_U  
ClientSampleId :

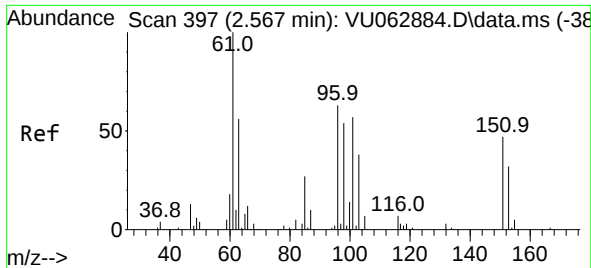
Tgt Ion: 50 Resp: 981  
Ion Ratio Lower Upper  
50 100  
52 35.3 24.1 44.7



#9  
Trichlorofluoromethane  
Concen: 0.180 ug/L  
RT: 2.126 min Scan# 260  
Delta R.T. 0.003 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

Tgt Ion: 101 Resp: 2403  
Ion Ratio Lower Upper  
101 100  
103 61.6 51.4 77.0





#12

1,1-Dichloroethene

Concen: 17.846 ug/L

RT: 2.570 min Scan# 397

Delta R.T. 0.003 min

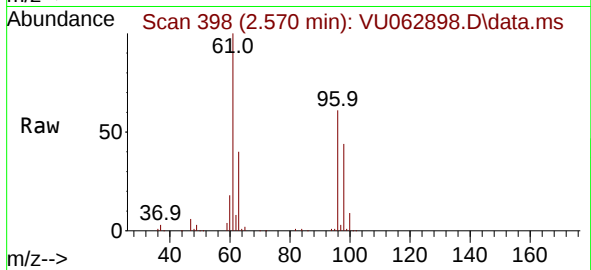
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Acq: 18 Jan 2025 02:28

Instrument :

MSVOA\_U

ClientSampleId :



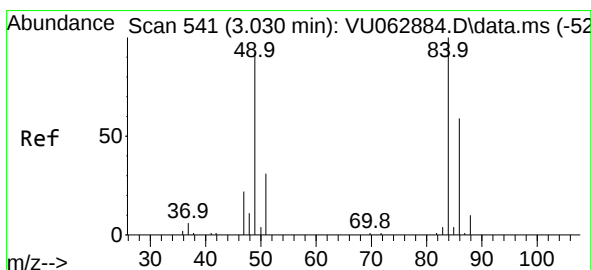
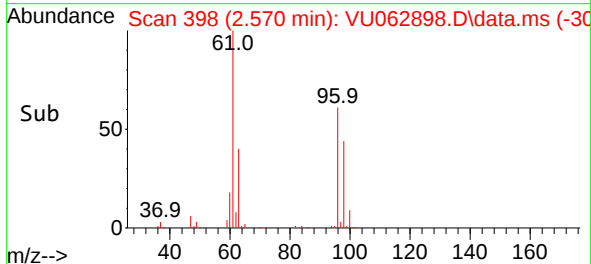
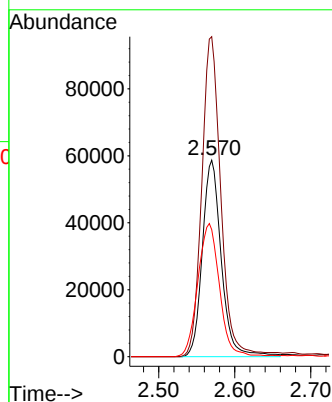
Tgt Ion: 96 Resp: 101845

Ion Ratio Lower Upper

96 100

61 162.8 120.4 223.6

63 64.6 82.3 152.9#



#16

Methylene chloride

Concen: 0.162 ug/L

RT: 3.036 min Scan# 543

Delta R.T. 0.006 min

Lab File: VU062898.D

Acq: 18 Jan 2025 02:28

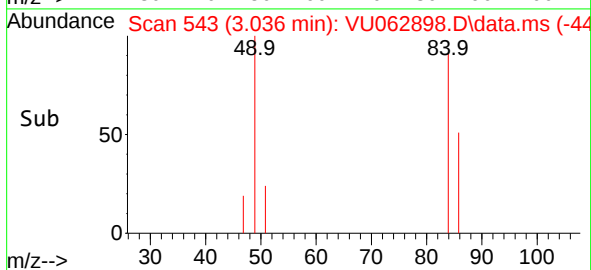
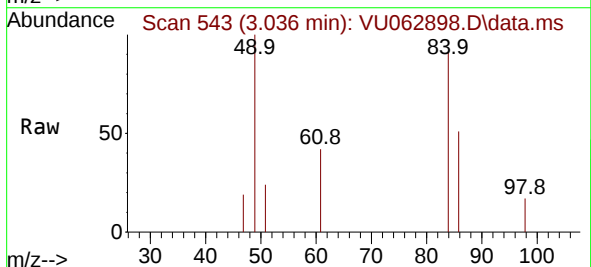
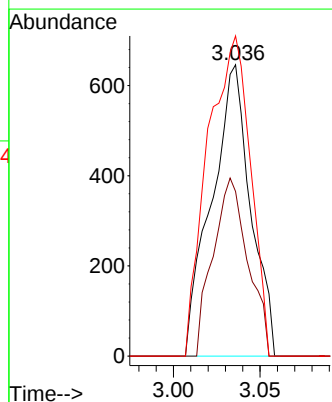
Tgt Ion: 84 Resp: 1013

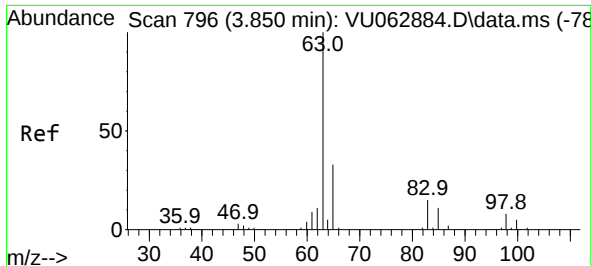
Ion Ratio Lower Upper

84 100

86 56.5 44.7 83.1

49 109.9 68.3 126.9





#19

1,1-Dichloroethane

Concen: 147.882 ug/L

RT: 3.853 min Scan# 796

Delta R.T. 0.003 min

Lab File: VU062898.D

Acq: 18 Jan 2025 02:28

Instrument :

MSVOA\_U

ClientSampleId :

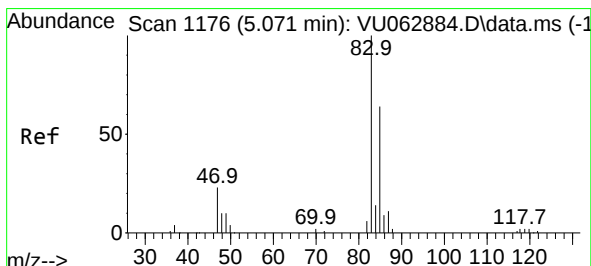
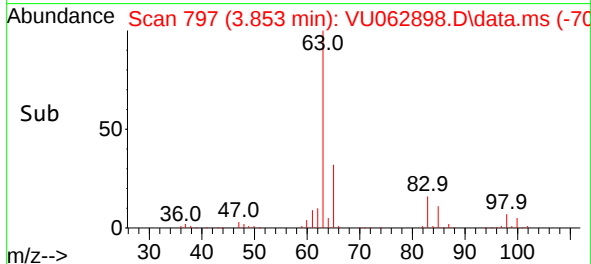
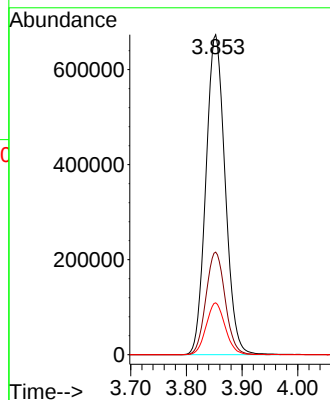
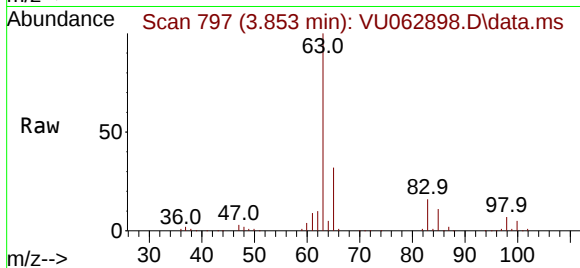
Tgt Ion: 63 Resp: 1616584

Ion Ratio Lower Upper

63 100

65 32.1 20.7 38.5

83 16.2 10.5 19.5



#25

Chloroform

Concen: 1.116 ug/L

RT: 5.081 min Scan# 1179

Delta R.T. 0.009 min

Lab File: VU062898.D

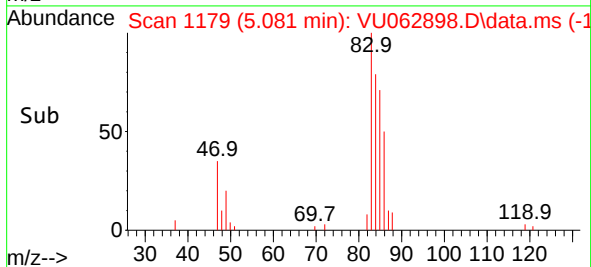
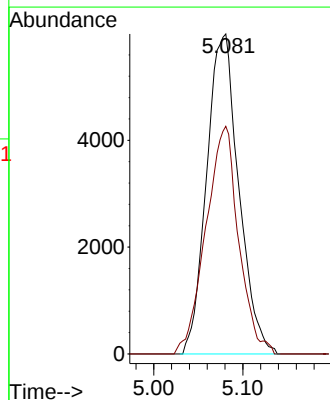
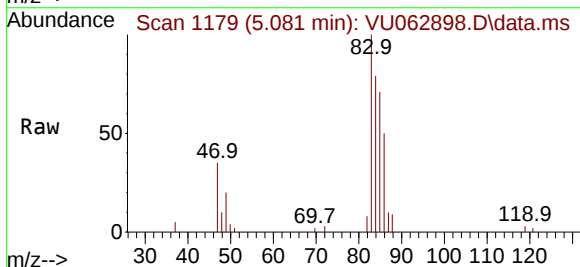
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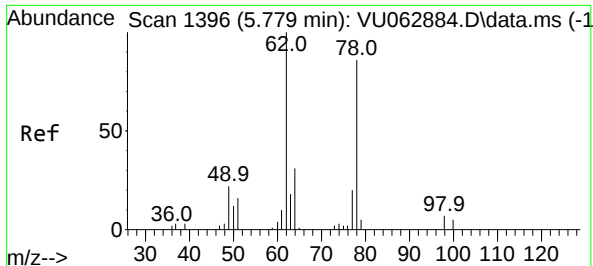
Tgt Ion: 83 Resp: 15015

Ion Ratio Lower Upper

83 100

85 71.2 45.8 85.2





#27

1,2-Dichloroethane

Concen: 1.155 ug/L

RT: 5.788 min Scan# 11

Delta R.T. 0.009 min

Lab File: VU062898.D

Acq: 18 Jan 2025 02:28

Instrument :

MSVOA\_U

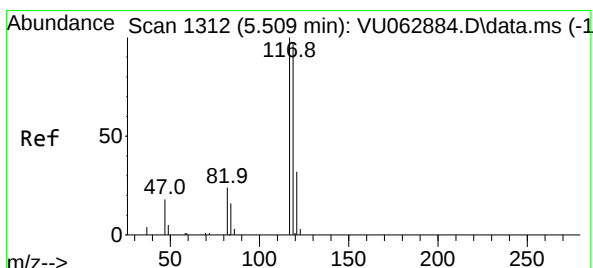
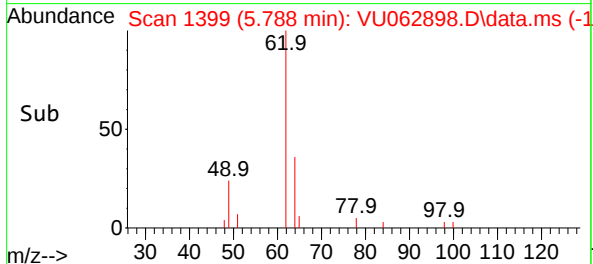
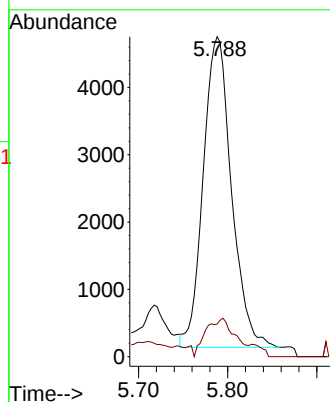
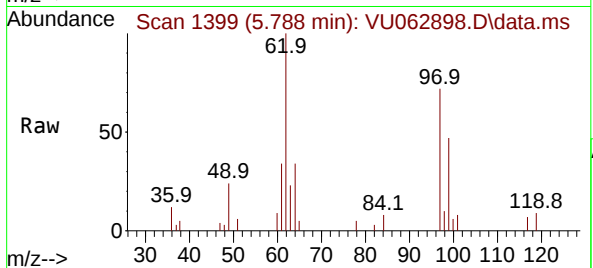
ClientSampleId :

Tgt Ion: 62 Resp: 10158

Ion Ratio Lower Upper

62 100

98 10.2 5.8 8.6#



#31

Carbon tetrachloride

Concen: 949.665 ug/L

RT: 5.344 min Scan# 1261

Delta R.T. -0.164 min

Lab File: VU062898.D

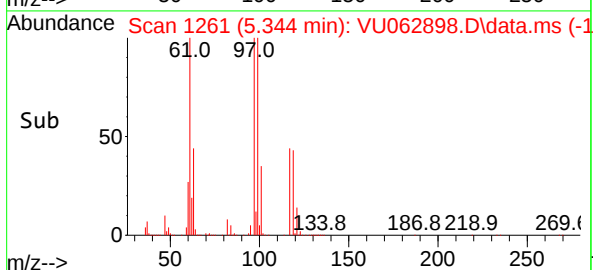
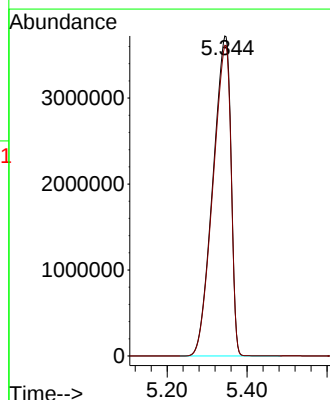
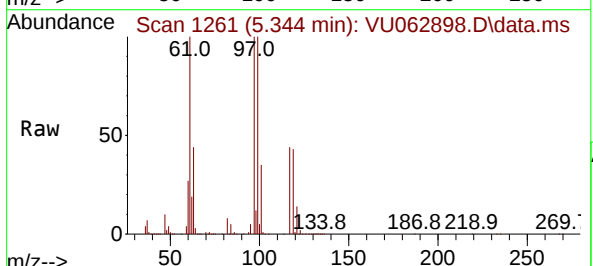
Acq: 18 Jan 2025 02:28

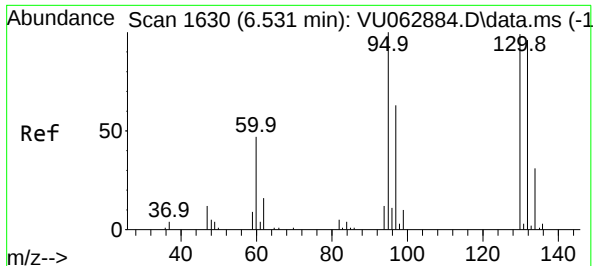
Tgt Ion: 117 Resp: 11659236

Ion Ratio Lower Upper

117 100

119 96.9 78.6 118.0

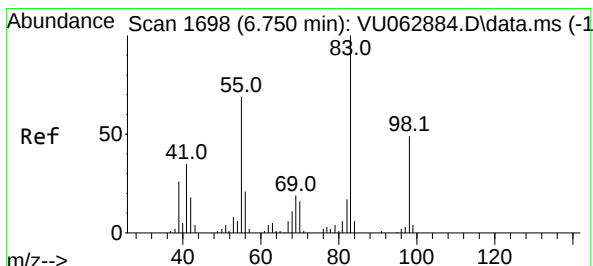
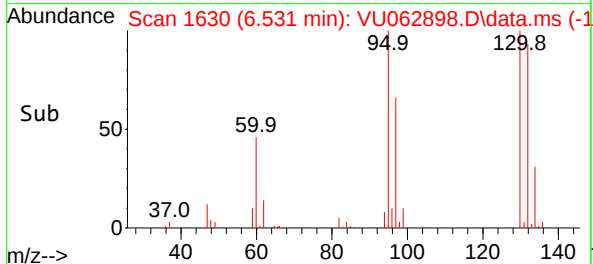
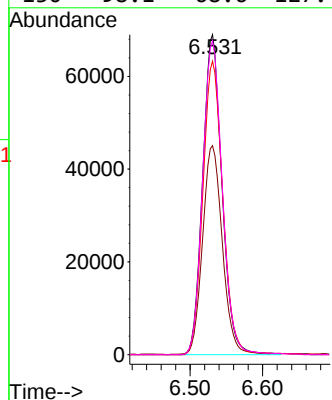
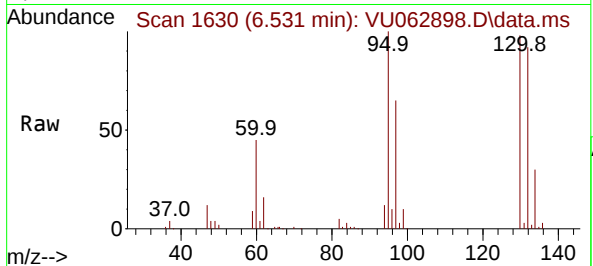




#34  
Trichloroethene  
Concen: 14.772 ug/L  
RT: 6.531 min Scan# 1630  
Delta R.T. -0.000 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

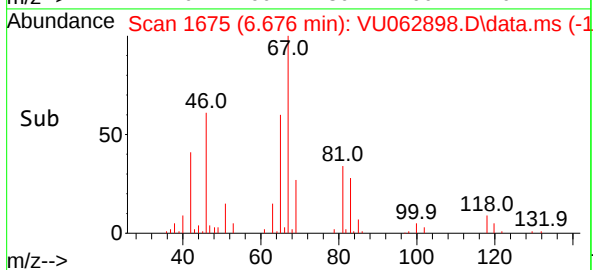
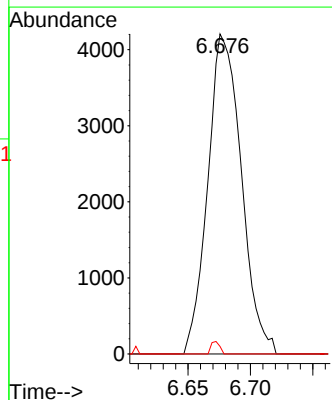
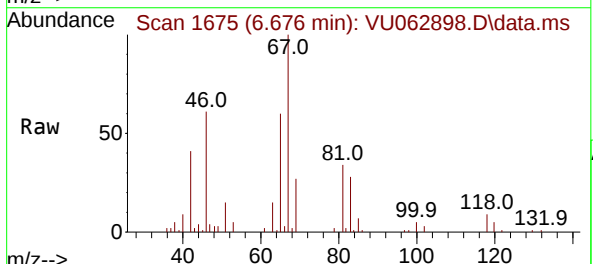
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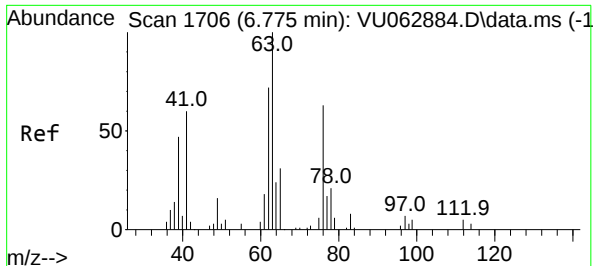
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Ion Ratio Lower Upper  
95 100  
97 65.3 47.5 88.3  
132 91.7 66.9 124.3  
130 98.1 68.6 127.4



#35  
Methylcyclohexane  
Concen: 0.740 ug/L  
RT: 6.676 min Scan# 1675  
Delta R.T. -0.074 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

Tgt Ion: 83 Resp: 7875  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.2 85.8#  
98 3.8 36.6 55.0#

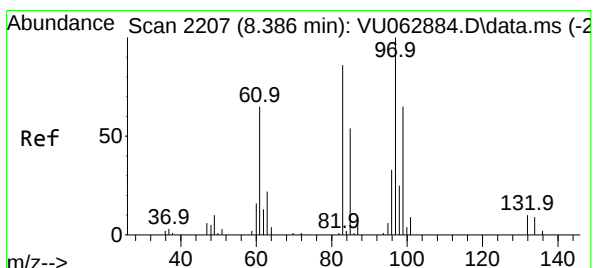
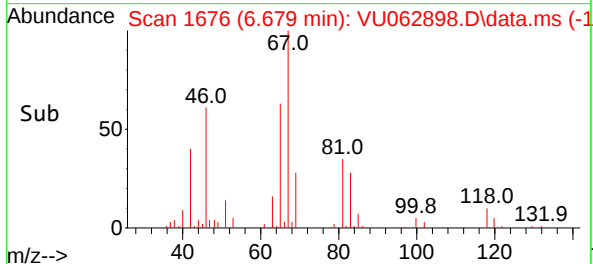
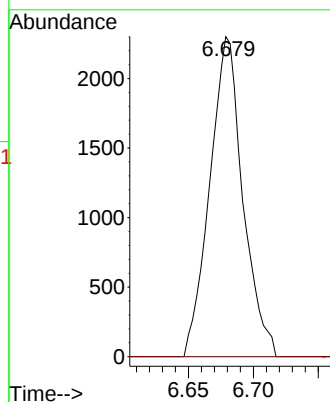
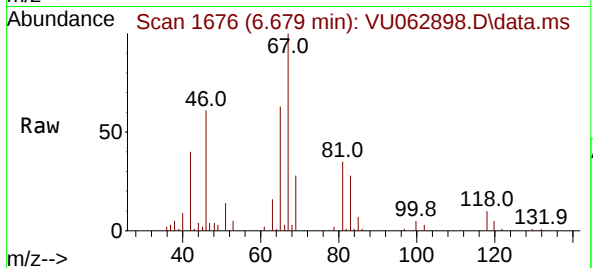




#37  
1,2-Dichloropropane  
Concen: 0.681 ug/L  
RT: 6.679 min Scan# 11  
Delta R.T. -0.097 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

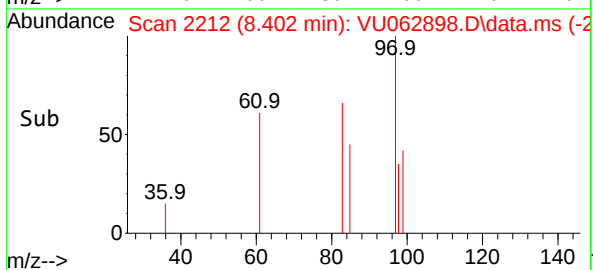
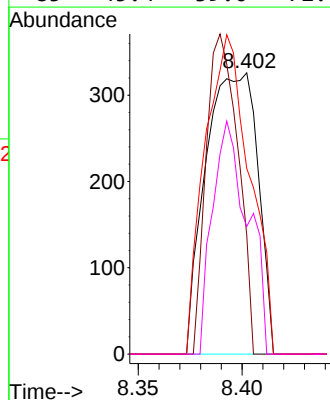
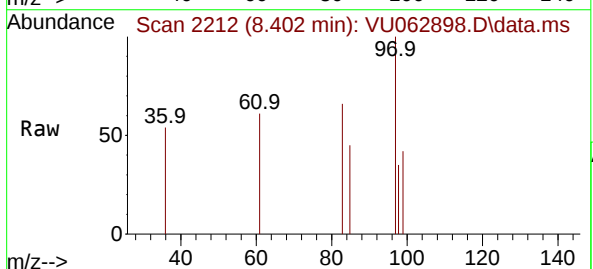
Instrument :  
MSVOA\_U  
ClientSampleId :

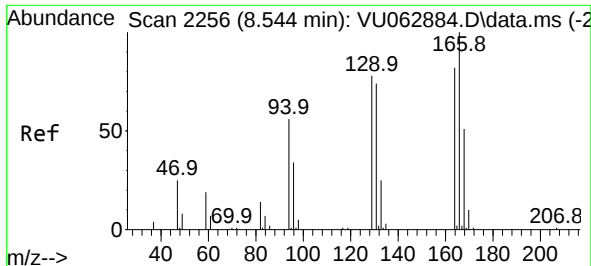
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Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.8#



#45  
1,1,2-Trichloroethane  
Concen: 0.117 ug/L  
RT: 8.402 min Scan# 2212  
Delta R.T. 0.016 min  
Lab File: VU062898.D  
Acq: 18 Jan 2025 02:28

Tgt Ion: 97 Resp: 567  
Ion Ratio Lower Upper  
97 100  
99 42.3 45.6 84.6#  
83 66.0 63.0 117.0  
85 45.4 39.0 72.4





#47

Tetrachloroethene

Concen: 0.955 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.000 min

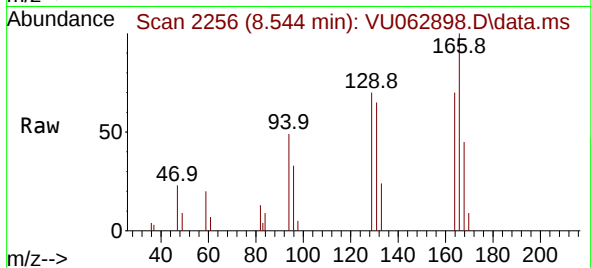
Lab File: VU062898.D

Acq: 18 Jan 2025 02:28

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:164 Resp: 5687

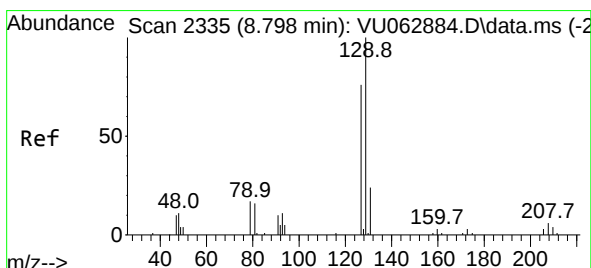
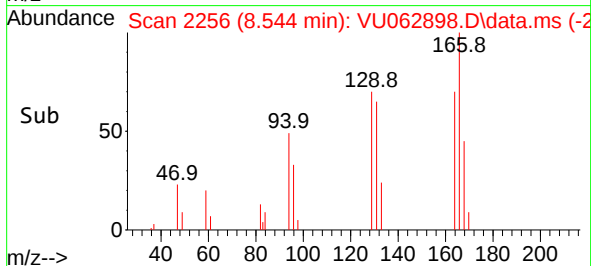
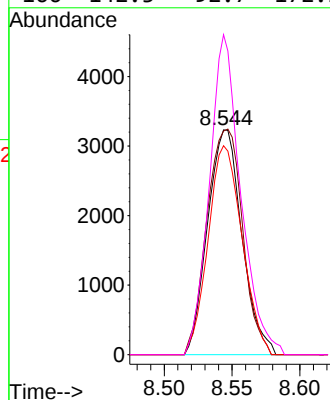
Ion Ratio Lower Upper

164 100

129 99.5 71.0 131.9

131 93.0 69.4 129.0

166 142.3 92.7 172.3



#49

Dibromochloromethane

Concen: 0.911 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.251 min

Lab File: VU062898.D

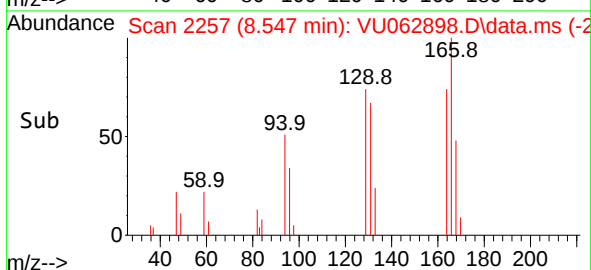
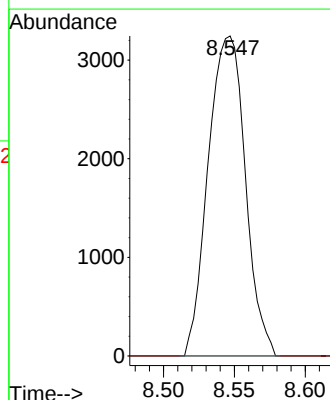
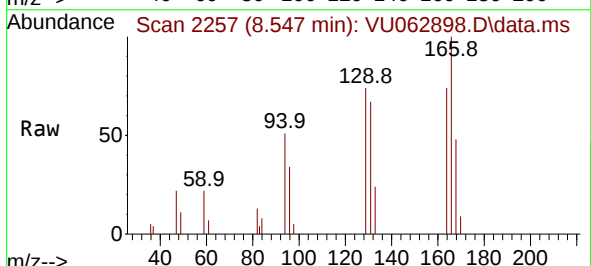
Acq: 18 Jan 2025 02:28

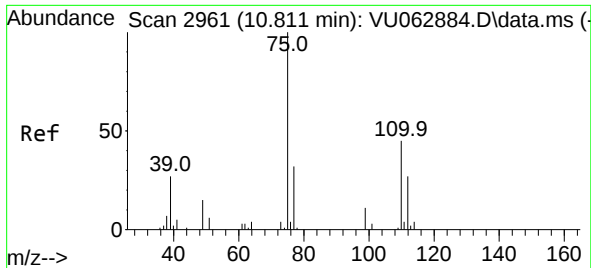
Tgt Ion:129 Resp: 5929

Ion Ratio Lower Upper

129 100

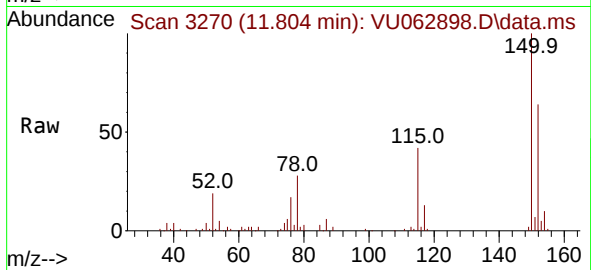
127 0.0 52.1 96.9#





#61  
 1,2,3-Trichloropropane  
 Concen: 1.104 ug/L  
 RT: 11.804 min Scan# 31  
 Delta R.T. 0.993 min  
 Lab File: VU062898.D  
 Acq: 18 Jan 2025 02:28

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion: 75 Resp: 3980  
 Ion Ratio Lower Upper  
 75 100  
 110 1.6 33.2 49.8#  
 77 36.8 25.9 38.9

