

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090523\  
 Data File : VU055124.D  
 Acq On : 06 Sep 2023 03:50  
 Operator : MD/SY  
 Sample : 04267-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 06 05:28:03 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

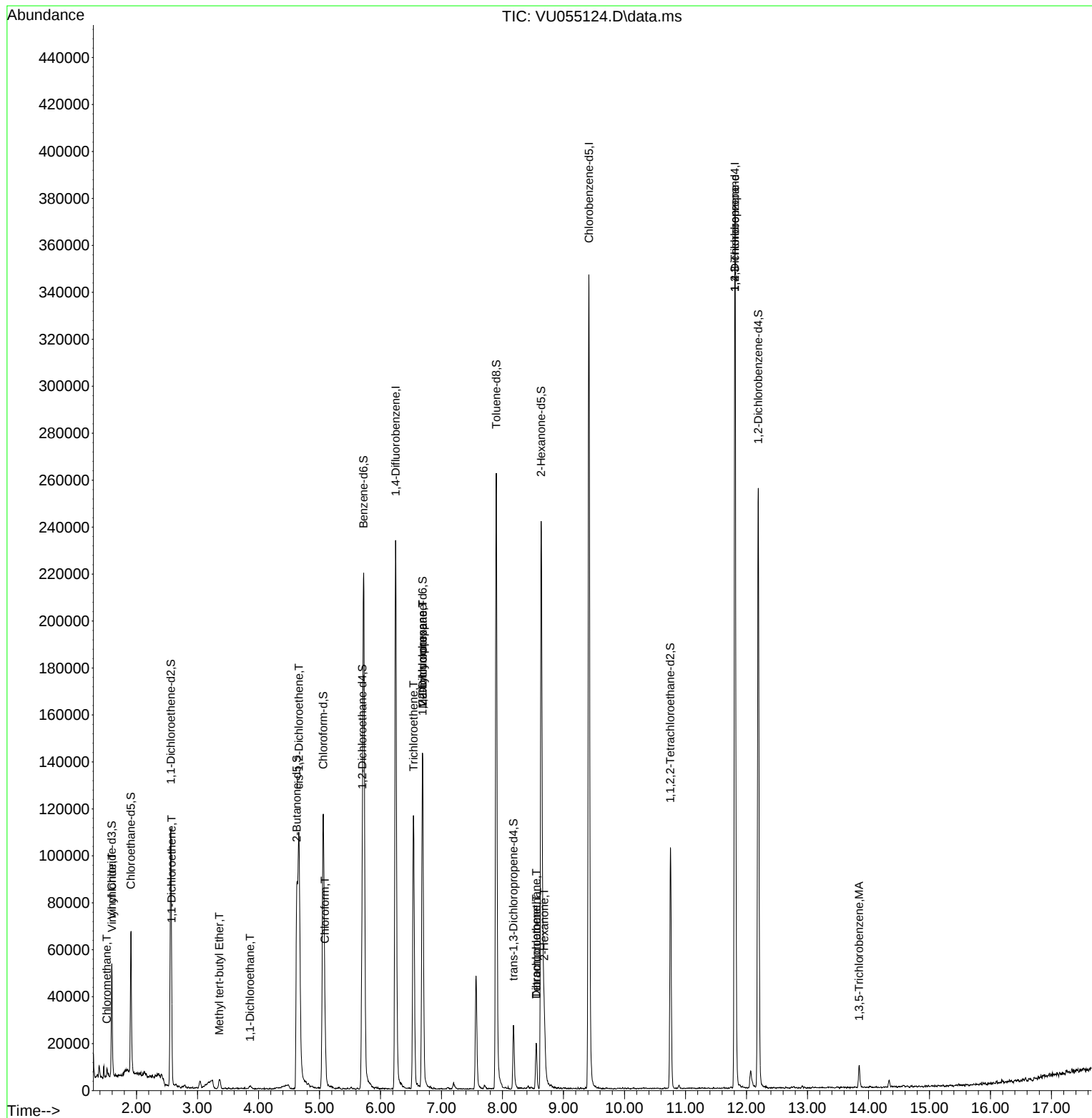
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.248  | 114   | 186578   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.418  | 117   | 188151   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810 | 152   | 96190    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 31996    | 3.659    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 73.200%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 40483    | 3.999    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 80.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 20494    | 4.113    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 82.200%  |
| 20) 2-Butanone-d5             | 4.627  | 46    | 130741   | 51.521   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 103.040% |
| 24) Chloroform-d              | 5.062  | 84    | 105115   | 4.530    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.701  | 65    | 54312    | 4.678    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 93.600%  |
| 32) Benzene-d6                | 5.724  | 84    | 200961   | 4.327    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.689  | 67    | 67984    | 4.602    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 92.000%  |
| 41) Toluene-d8                | 7.897  | 98    | 174315   | 4.074    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.400%  |
| 43) trans-1,3-Dichloroprop... | 8.180  | 79    | 16499    | 4.056    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 81.200%  |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 77241    | 46.770   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 93.540%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 50404    | 4.852    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 97.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.193 | 152   | 64045    | 4.562    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 91.200%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 3) Chloromethane              | 1.515  | 50    | 2814     | 0.255    | ug/L # | 80       |
| 5) Vinyl chloride             | 1.599  | 62    | 1577     | 0.135    | ug/L # | 40       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 1697     | 0.197    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 3.357  | 73    | 3522     | 0.156    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 2019     | 0.107    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 44510    | 4.155    | ug/L   | 95       |
| 25) Chloroform                | 5.087  | 83    | 16249    | 0.825    | ug/L   | 96       |
| 34) Trichloroethene           | 6.541  | 95    | 39544    | 3.553    | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.689  | 83    | 15222    | 0.975    | ug/L # | 22       |
| 37) 1,2-Dichloropropane       | 6.692  | 63    | 7281     | 0.668    | ug/L # | 88       |
| 47) Tetrachloroethene         | 8.553  | 164   | 3731     | 0.485    | ug/L   | 84       |
| 48) 2-Hexanone                | 8.685  | 43    | 17305    | 3.553    | ug/L # | 85       |
| 49) Dibromochloromethane      | 8.553  | 129   | 4036     | 0.503    | ug/L # | 9        |
| 61) 1,2,3-Trichloropropane    | 11.810 | 75    | 13554    | 2.123    | ug/L # | 69       |
| 69) 1,3,5-Trichlorobenzene    | 13.846 | 180   | 3373     | 0.207    | ug/L   | 95       |
| -----                         |        |       |          |          |        |          |

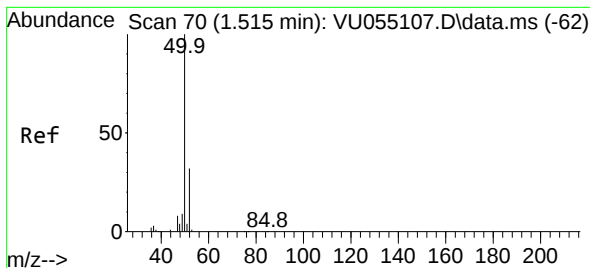
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090523\  
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Sample : 04267-07  
Misc : 25.0mL/MSVOA\_U/WATER  
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Instrument :  
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Quant Time: Sep 06 05:28:03 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: 0.255 ug/L

RT: 1.515 min Scan# 70

Delta R.T. 0.000 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Instrument :

MSVOA\_U

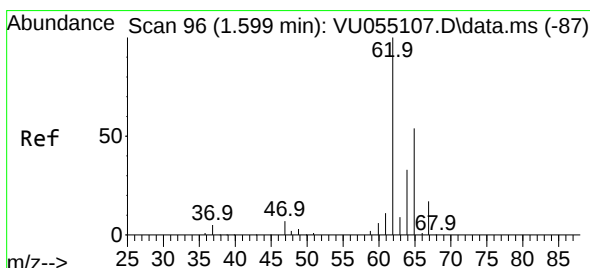
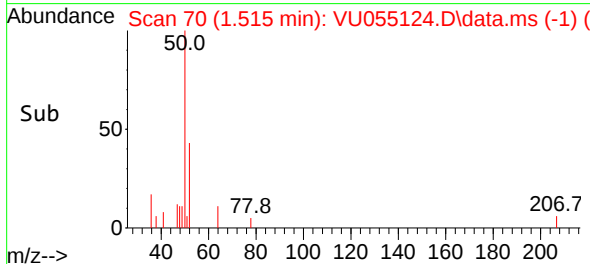
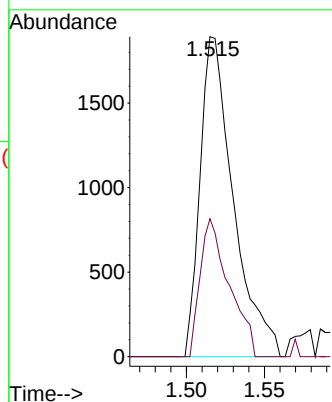
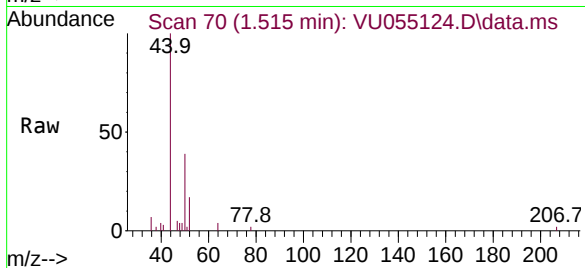
ClientSampleId :

Tgt Ion: 50 Resp: 2814

Ion Ratio Lower Upper

50 100

52 43.1 22.5 41.7#



#5

Vinyl chloride

Concen: 0.135 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU055124.D

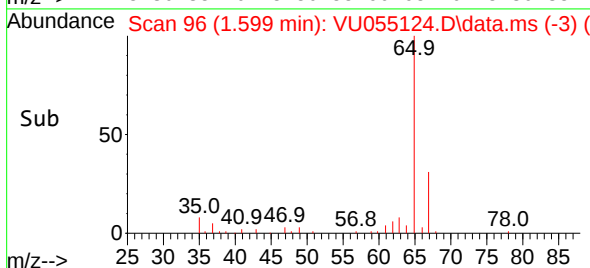
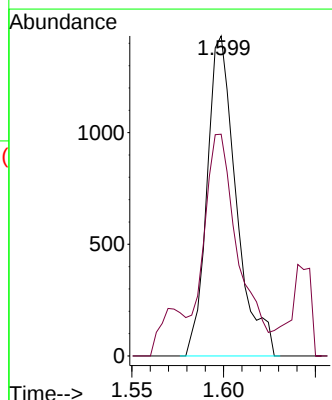
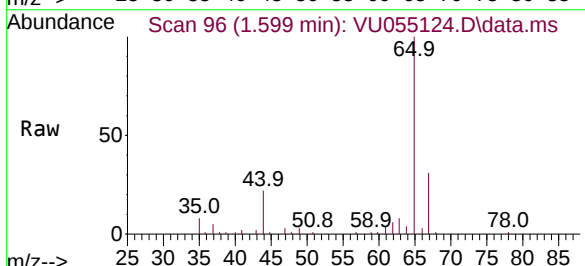
Acq: 06 Sep 2023 03:50

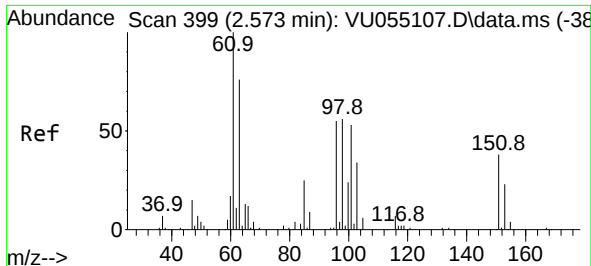
Tgt Ion: 62 Resp: 1577

Ion Ratio Lower Upper

62 100

64 69.3 24.2 45.0#





#12

1,1-Dichloroethene

Concen: 0.197 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

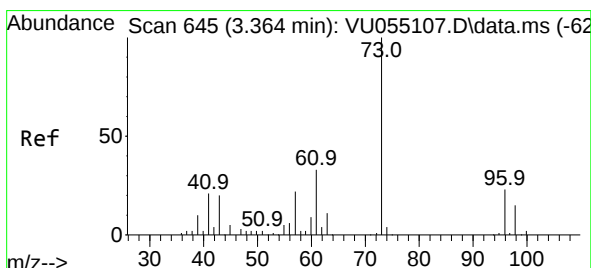
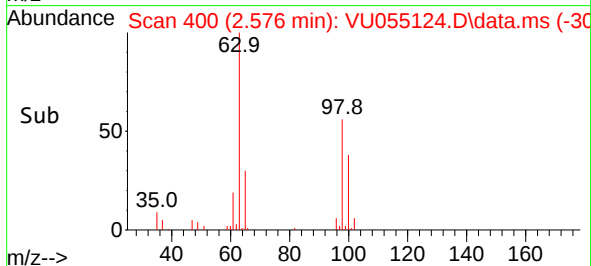
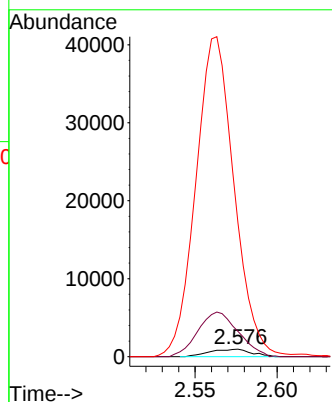
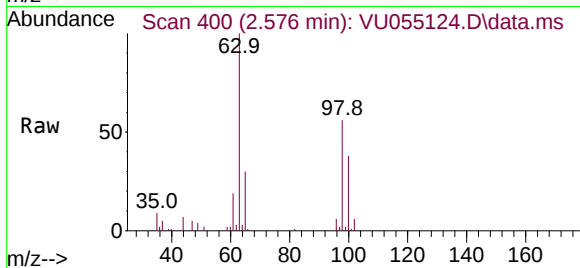
Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 96 Resp: 1697

| Ion | Ratio  | Lower | Upper  |
|-----|--------|-------|--------|
| 96  | 100    |       |        |
| 61  | 338.0  | 120.8 | 224.4# |
| 63  | 1792.3 | 94.5  | 175.5# |



#17

Methyl tert-butyl Ether

Concen: 0.156 ug/L

RT: 3.357 min Scan# 643

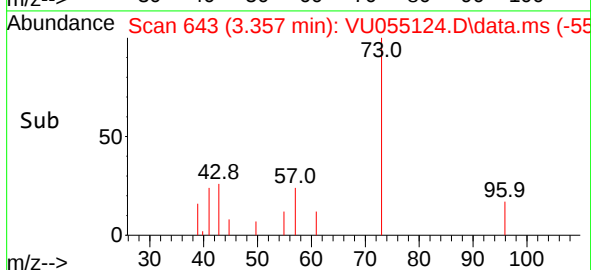
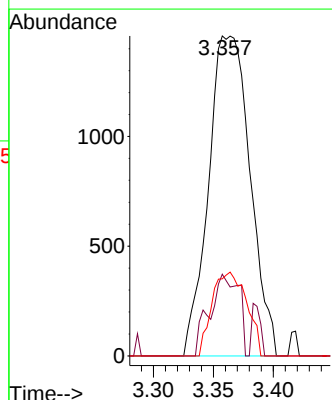
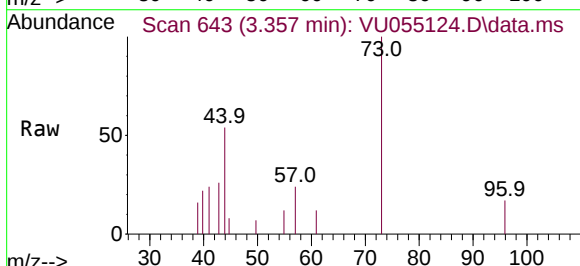
Delta R.T. -0.006 min

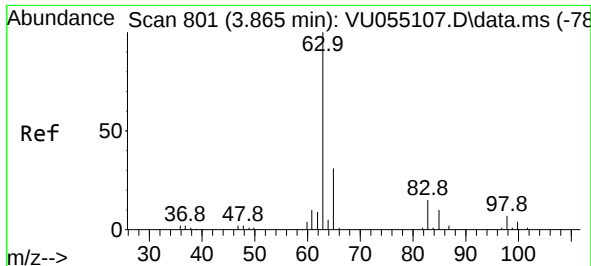
Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Tgt Ion: 73 Resp: 3522

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 17.9  | 16.2  | 24.2  |
| 57  | 21.7  | 17.4  | 26.2  |

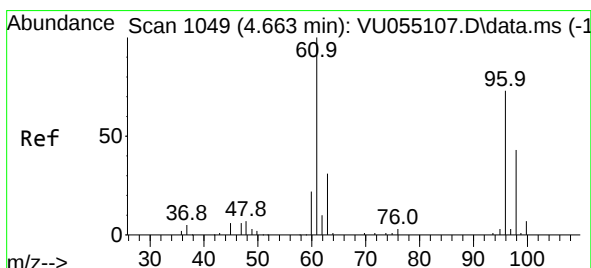
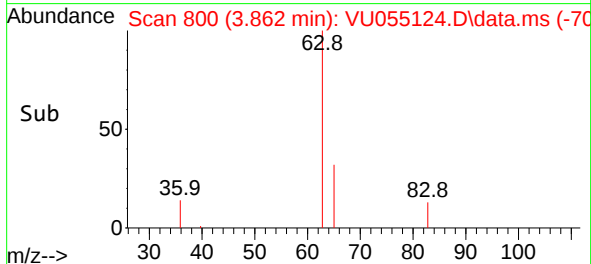
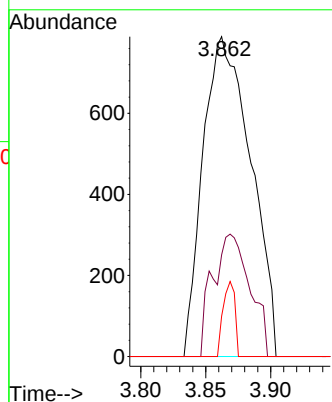
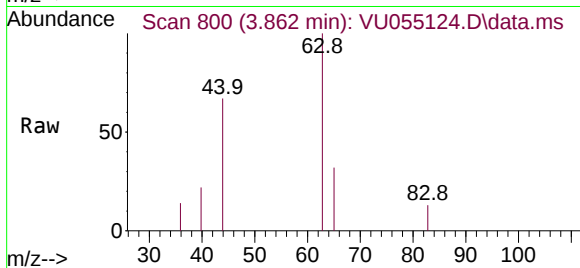




#19  
1,1-Dichloroethane  
Concen: 0.107 ug/L  
RT: 3.862 min Scan# 801  
Delta R.T. -0.003 min  
Lab File: VU055124.D  
Acq: 06 Sep 2023 03:50

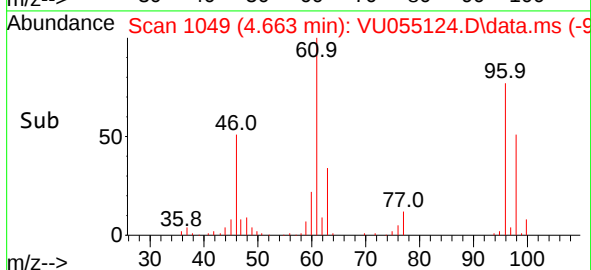
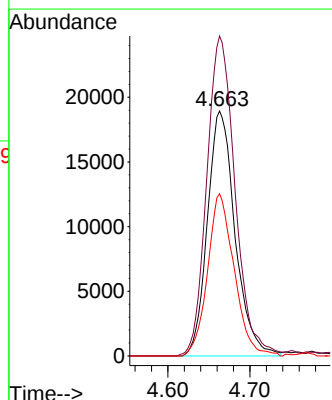
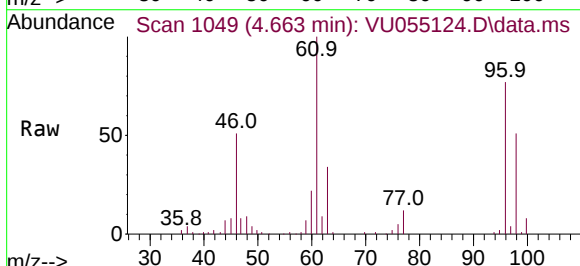
Instrument :  
MSVOA\_U  
ClientSampleId :

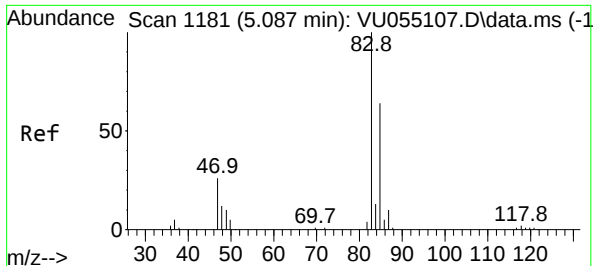
Tgt Ion: 63 Resp: 2019  
Ion Ratio Lower Upper  
63 100  
65 31.8 22.2 41.2  
83 12.7 10.6 19.8



#22  
cis-1,2-Dichloroethene  
Concen: 4.155 ug/L  
RT: 4.663 min Scan# 1049  
Delta R.T. 0.000 min  
Lab File: VU055124.D  
Acq: 06 Sep 2023 03:50

Tgt Ion: 96 Resp: 44510  
Ion Ratio Lower Upper  
96 100  
61 130.6 97.2 180.4  
98 66.2 46.1 85.7





#25

Chloroform

Concen: 0.825 ug/L

RT: 5.087 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Instrument :

MSVOA\_U

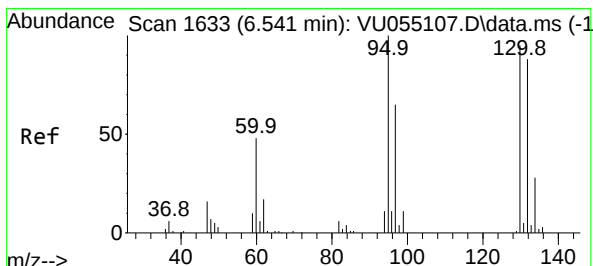
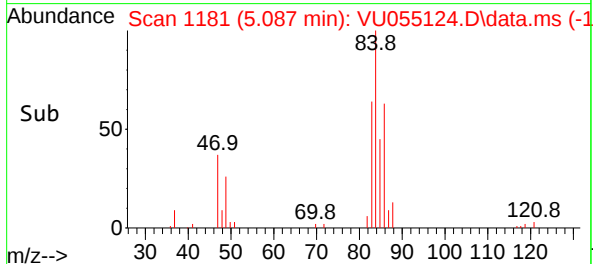
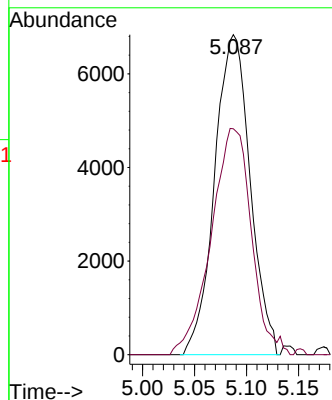
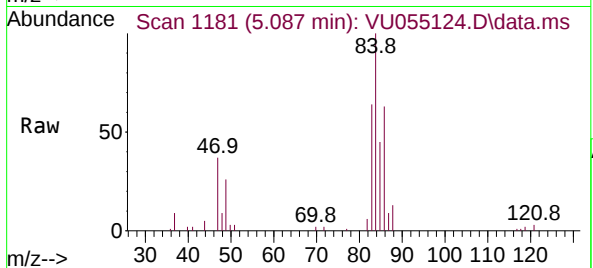
ClientSampleId :

Tgt Ion: 83 Resp: 16249

Ion Ratio Lower Upper

83 100

85 70.6 47.2 87.6



#34

Trichloroethene

Concen: 3.553 ug/L

RT: 6.541 min Scan# 1633

Delta R.T. 0.000 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Tgt Ion: 95 Resp: 39544

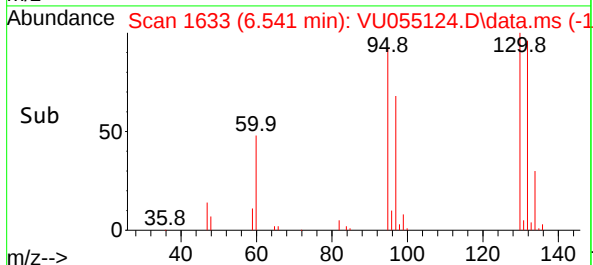
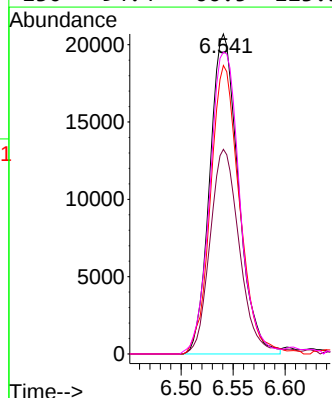
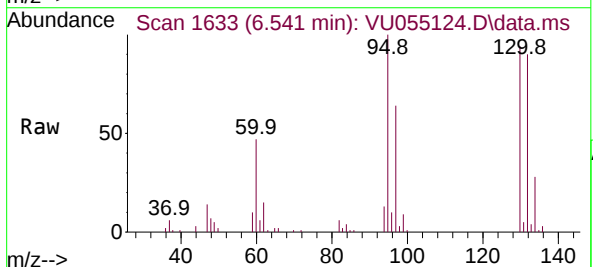
Ion Ratio Lower Upper

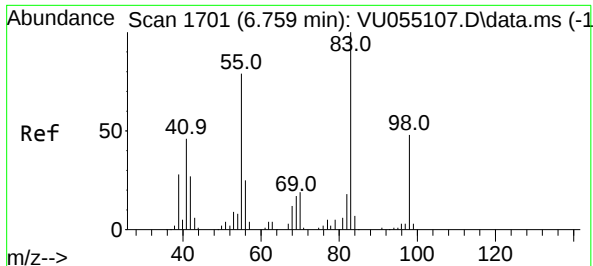
95 100

97 64.0 44.7 83.1

132 90.1 66.6 123.6

130 94.4 66.5 123.5





#35

Methylcyclohexane

Concen: 0.975 ug/L

RT: 6.689 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Instrument :

MSVOA\_U

ClientSampleId :

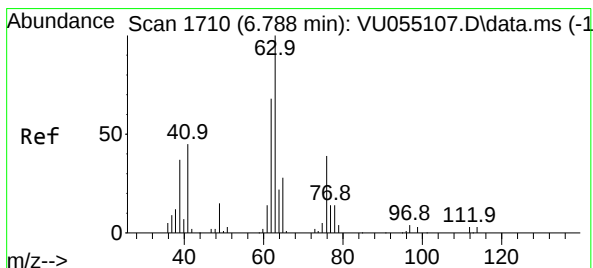
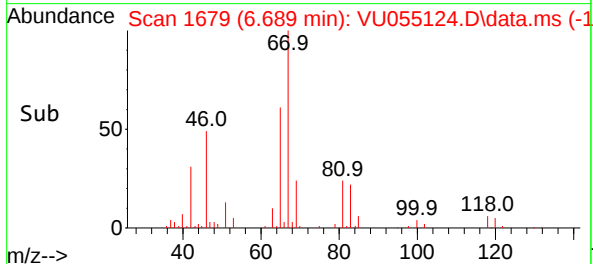
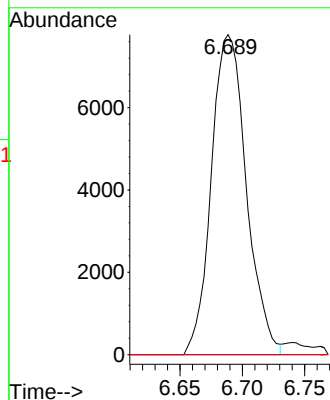
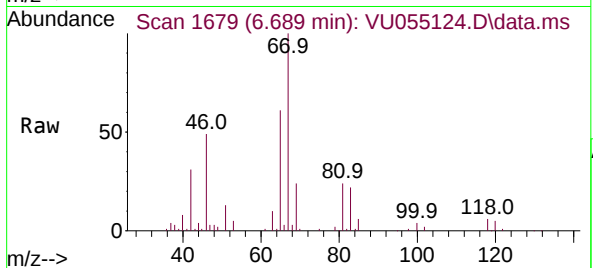
Tgt Ion: 83 Resp: 15222

Ion Ratio Lower Upper

83 100

55 0.5 60.4 90.6#

98 4.5 35.3 52.9#



#37

1,2-Dichloropropane

Concen: 0.668 ug/L

RT: 6.692 min Scan# 1680

Delta R.T. -0.096 min

Lab File: VU055124.D

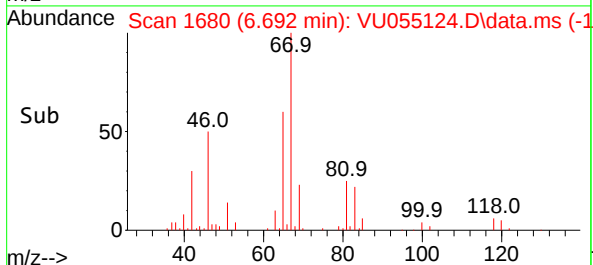
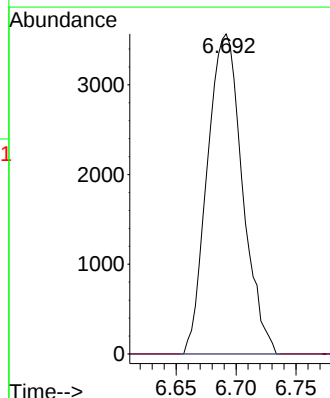
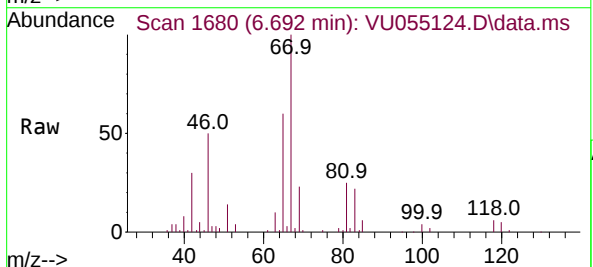
Acq: 06 Sep 2023 03:50

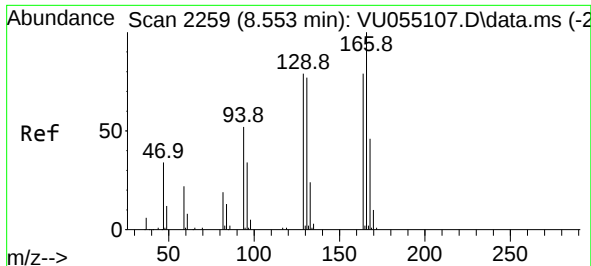
Tgt Ion: 63 Resp: 7281

Ion Ratio Lower Upper

63 100

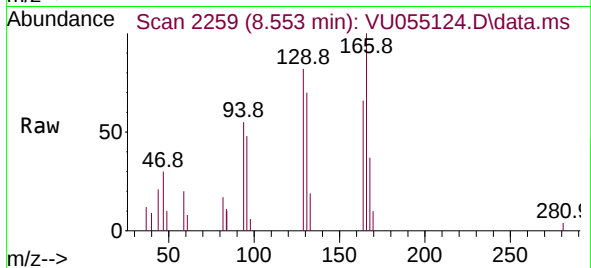
112 0.0 3.2 4.8#



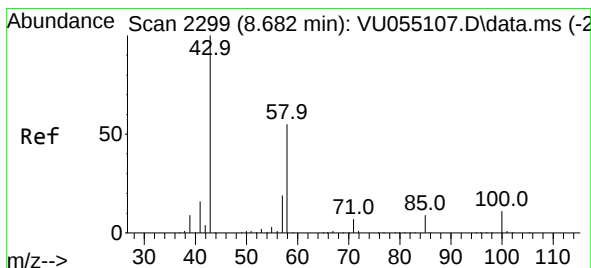
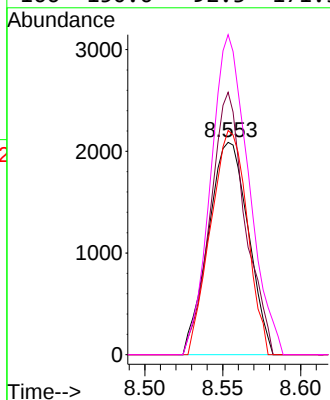
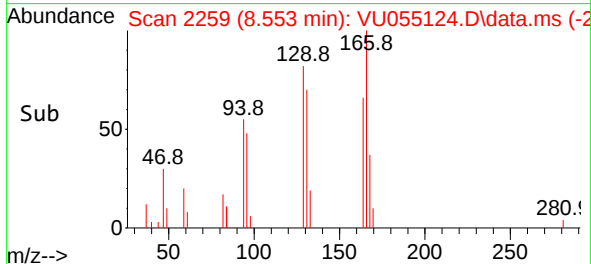


#47  
Tetrachloroethene  
Concen: 0.485 ug/L  
RT: 8.553 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU055124.D  
Acq: 06 Sep 2023 03:50

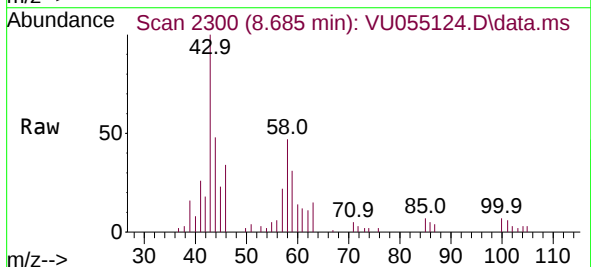
Instrument :  
MSVOA\_U  
ClientSampleId :



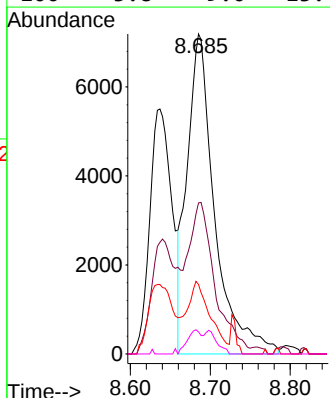
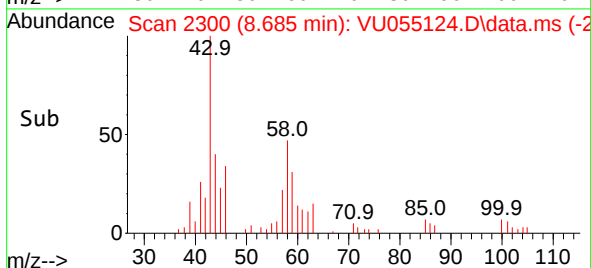
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 3731  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 123.6 | 69.2  | 128.6 |
| 131      | 105.5 | 68.8  | 127.8 |
| 166      | 150.6 | 92.3  | 171.5 |

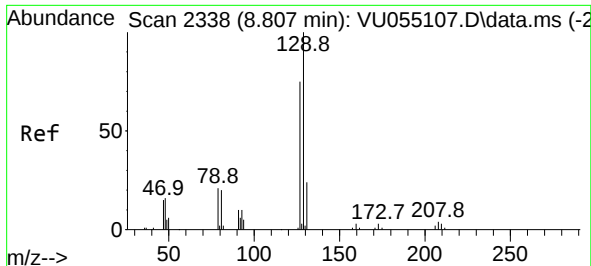


#48  
2-Hexanone  
Concen: 3.553 ug/L  
RT: 8.685 min Scan# 2300  
Delta R.T. 0.003 min  
Lab File: VU055124.D  
Acq: 06 Sep 2023 03:50



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 17305 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 42.0  | 44.0  | 66.0# |
| 57       | 18.7  | 16.2  | 24.2  |
| 100      | 3.8   | 9.0   | 13.4# |





#49

Dibromochloromethane

Concen: 0.503 ug/L

RT: 8.553 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Instrument :

MSVOA\_U

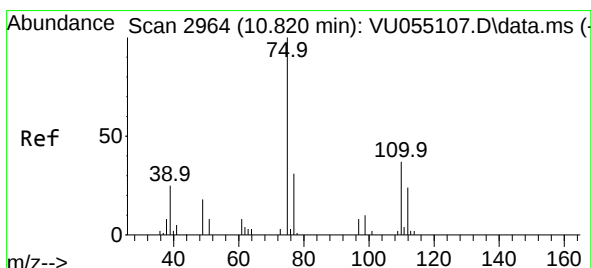
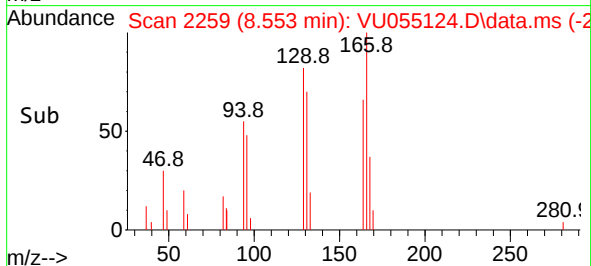
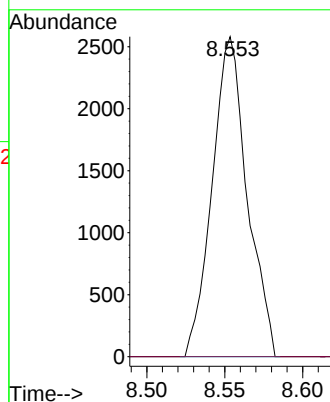
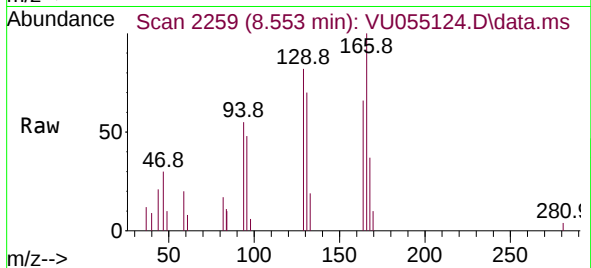
ClientSampleId :

Tgt Ion:129 Resp: 4036

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#61

1,2,3-Trichloropropane

Concen: 2.123 ug/L

RT: 11.810 min Scan# 3272

Delta R.T. 0.990 min

Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

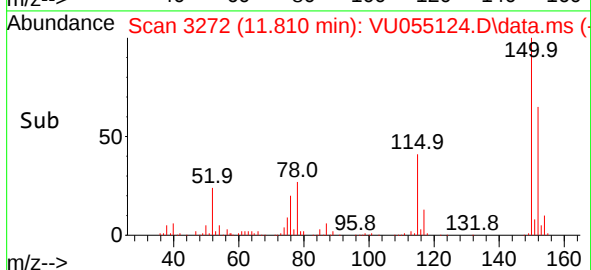
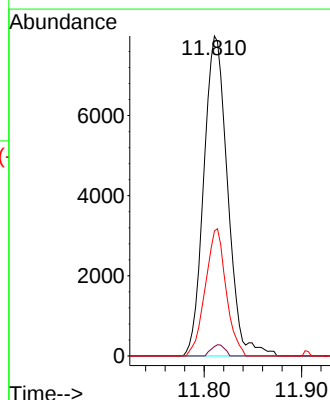
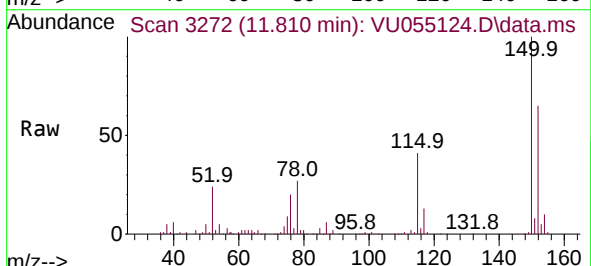
Tgt Ion: 75 Resp: 13554

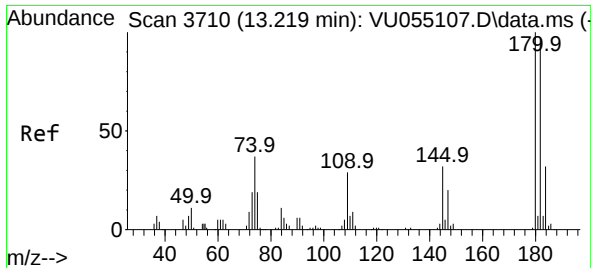
Ion Ratio Lower Upper

75 100

110 2.0 28.2 42.2#

77 34.7 26.2 39.4





#69

1,3,5-Trichlorobenzene

Concen: 0.207 ug/L

RT: 13.846 min Scan# 3905

Delta R.T. 0.627 min

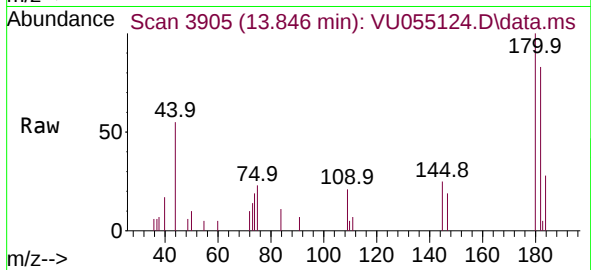
Lab File: VU055124.D

Acq: 06 Sep 2023 03:50

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 3373

Ion Ratio Lower Upper

180 100

182 90.8 75.8 113.6

184 31.5 24.0 36.0

145 28.3 26.3 39.5

