

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060922\  
 Data File : VU048977.D  
 Acq On : 09 Jun 2022 14:20  
 Operator : SY/MD  
 Sample : N3248-03  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYW8

Quant Time: Jun 10 01:03:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 10 01:01:44 2022  
 Response via : Initial Calibration

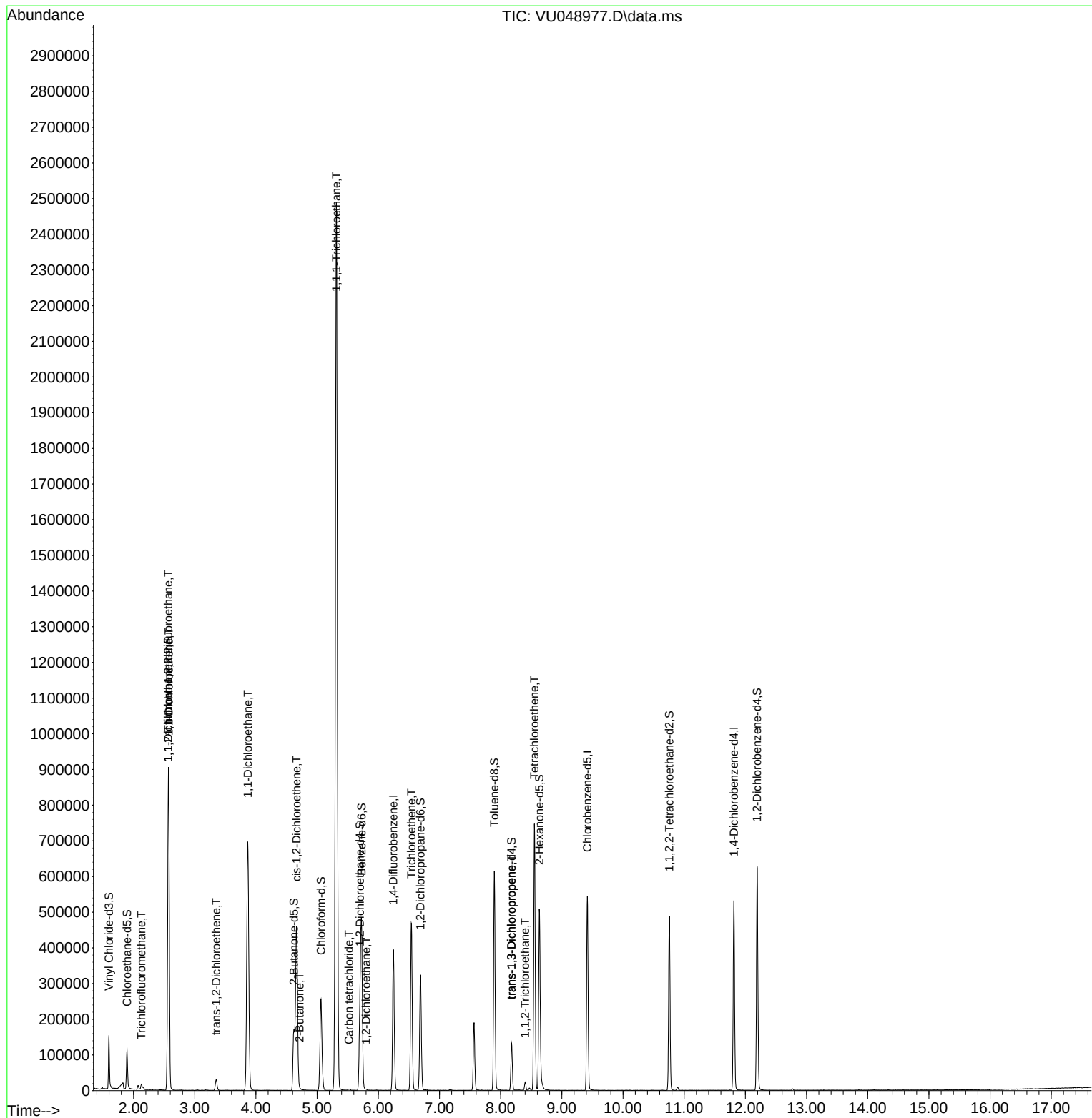
| Compound                      | R.T. QIon |       | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------------|----------|
| -----                         |           |       |          |          |             |          |
| Internal Standards            |           |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 6.247     | 114   | 317205   | 50.000   | ug/L        | 0.00     |
| 28) Chlorobenzene-d5          | 9.417     | 117   | 305047   | 50.000   | ug/L        | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812    | 152   | 144221   | 50.000   | ug/L        | 0.00     |
|                               |           |       |          |          |             |          |
| System Monitoring Compounds   |           |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 1.597     | 65    | 110373   | 56.810   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 135 | Recovery | = 113.620%  |          |
| 7) Chloroethane-d5            | 1.893     | 69    | 82220    | 56.486   | ug/L        | -0.01    |
| Spiked Amount                 | 50.000    | Range | 70 - 130 | Recovery | = 112.980%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.565     | 63    | 293503   | 66.798   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 133.600%# |          |
| 21) 2-Butanone-d5             | 4.620     | 46    | 245415   | 132.737  | ug/L        | 0.00     |
| Spiked Amount                 | 100.000   | Range | 40 - 130 | Recovery | = 132.740%# |          |
| 24) Chloroform-d              | 5.063     | 84    | 236738   | 48.220   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 96.440%   |          |
| 26) 1,2-Dichloroethane-d4     | 5.700     | 65    | 155963   | 45.028   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 90.060%   |          |
| 32) Benzene-d6                | 5.726     | 84    | 450787   | 53.098   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 106.200%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.690     | 67    | 156231   | 62.685   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 120 | Recovery | = 125.360%# |          |
| 41) Toluene-d8                | 7.896     | 98    | 406657   | 50.925   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 101.840%  |          |
| 43) trans-1,3-Dichloroprop... | 8.179     | 79    | 73648    | 46.211   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 92.420%   |          |
| 47) 2-Hexanone-d5             | 8.632     | 63    | 173897   | 127.228  | ug/L        | 0.00     |
| Spiked Amount                 | 100.000   | Range | 45 - 130 | Recovery | = 127.230%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758    | 84    | 246806   | 59.845   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 120 | Recovery | = 119.680%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192    | 152   | 169344   | 57.438   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 114.880%  |          |
|                               |           |       |          |          |             |          |
| Target Compounds              |           |       |          |          |             | Qvalue   |
| 9) Trichlorofluoromethane     | 2.128     | 101   | 9372     | 2.146    | ug/L        | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.565     | 101   | 2042     | 0.917    | ug/L #      | 19       |
| 12) 1,1-Dichloroethene        | 2.575     | 96    | 267509   | 129.617  | ug/L #      | 81       |
| 17) trans-1,2-Dichloroethene  | 3.350     | 96    | 13723    | 6.165    | ug/L        | 90       |
| 19) 1,1-Dichloroethane        | 3.867     | 63    | 814205   | 199.793  | ug/L        | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665     | 96    | 237615   | 94.656   | ug/L        | 99       |
| 22) 2-Butanone                | 4.713     | 43    | 1933     | 1.014    | ug/L #      | 49       |
| 27) 1,2-Dichloroethane        | 5.800     | 62    | 1947     | 0.477    | ug/L #      | 84       |
| 30) 1,1,1-Trichloroethane     | 5.314     | 97    | 1857831  | 402.229  | ug/L        | 98       |
| 31) Carbon tetrachloride      | 5.520     | 117   | 2081     | 0.494    | ug/L        | 86       |
| 34) Trichloroethene           | 6.539     | 95    | 160871   | 63.801   | ug/L        | 98       |
| 44) trans-1,3-Dichloropropene | 8.179     | 75    | 3040     | 0.758    | ug/L        | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401     | 97    | 6926     | 2.902    | ug/L        | 95       |
| 46) Tetrachloroethene         | 8.552     | 164   | 168451   | 81.871   | ug/L        | 98       |
| -----                         |           |       |          |          |             |          |

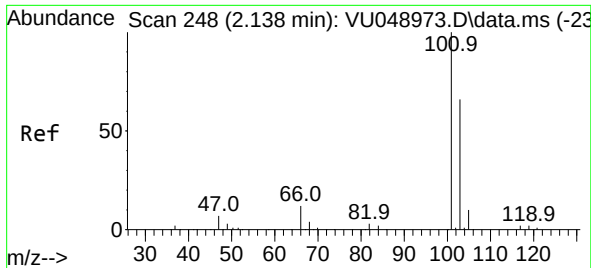
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060922\  
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Sample : N3248-03  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYW8

Quant Time: Jun 10 01:03:25 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 10 01:01:44 2022  
Response via : Initial Calibration

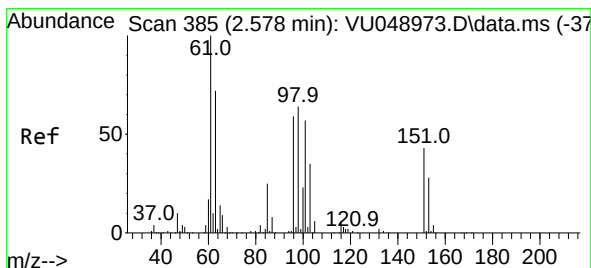
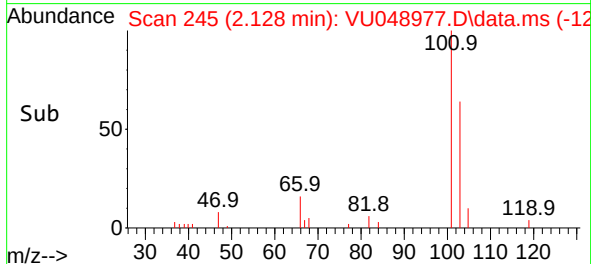
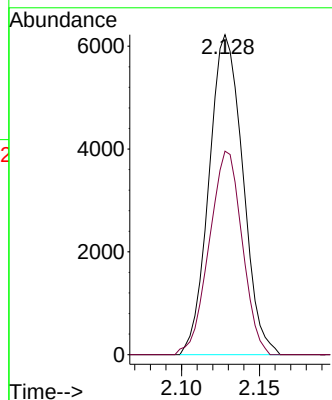
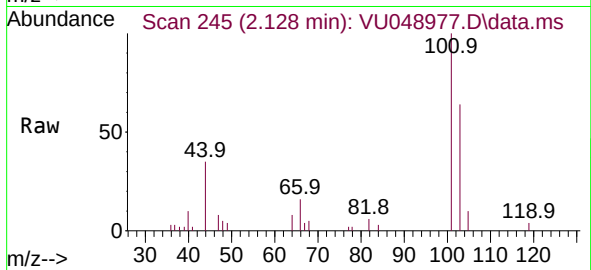




#9  
 Trichlorofluoromethane  
 Concen: 2.146 ug/L  
 RT: 2.128 min Scan# 248  
 Delta R.T. -0.010 min  
 Lab File: VU048977.D  
 Acq: 09 Jun 2022 14:20

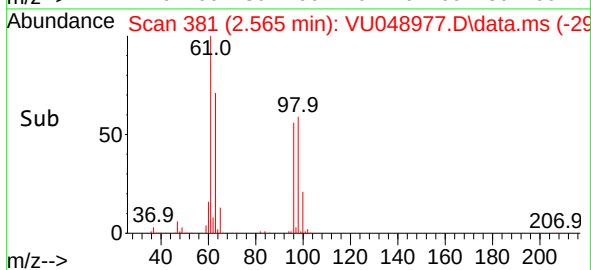
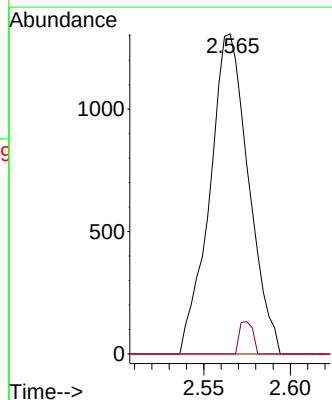
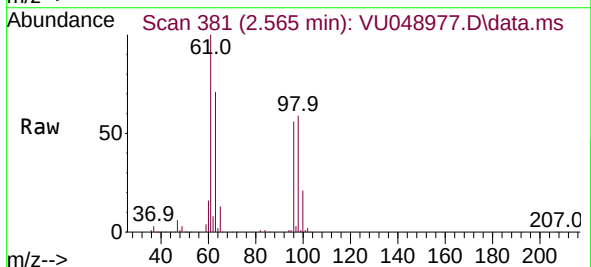
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYW8

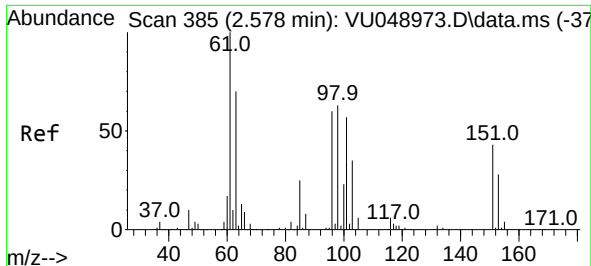
Tgt Ion:101 Resp: 9372  
 Ion Ratio Lower Upper  
 101 100  
 103 61.8 51.6 77.4



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.917 ug/L  
 RT: 2.565 min Scan# 381  
 Delta R.T. -0.013 min  
 Lab File: VU048977.D  
 Acq: 09 Jun 2022 14:20

Tgt Ion:101 Resp: 2042  
 Ion Ratio Lower Upper  
 101 100  
 85 3.5 35.7 53.5#  
 151 0.0 64.4 96.6#





#12

1,1-Dichloroethene

Concen: 129.617 ug/L

RT: 2.575 min Scan# 385

Delta R.T. -0.003 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

Instrument :

MSVOA\_U

ClientSampleId :

EXYW8

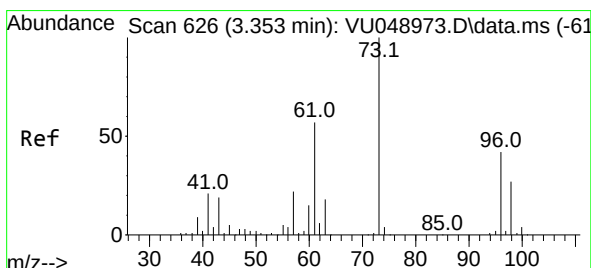
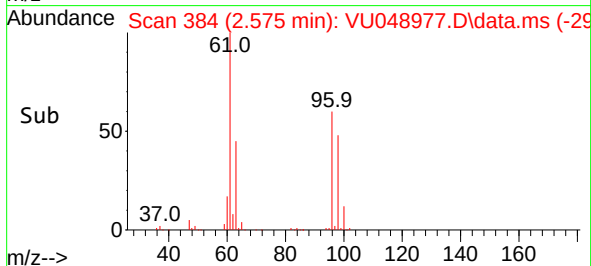
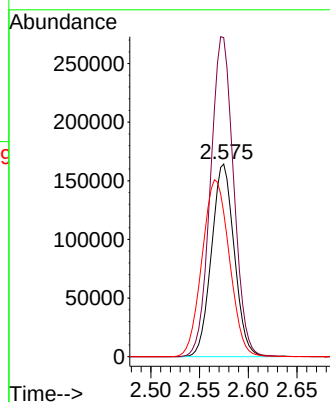
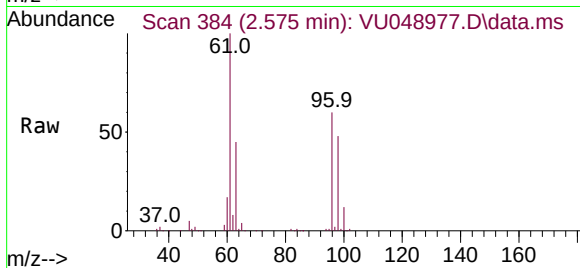
Tgt Ion: 96 Resp: 267509

Ion Ratio Lower Upper

96 100

61 165.6 120.6 224.0

63 74.7 82.3 152.9#



#17

trans-1,2-Dichloroethene

Concen: 6.165 ug/L

RT: 3.350 min Scan# 625

Delta R.T. -0.003 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

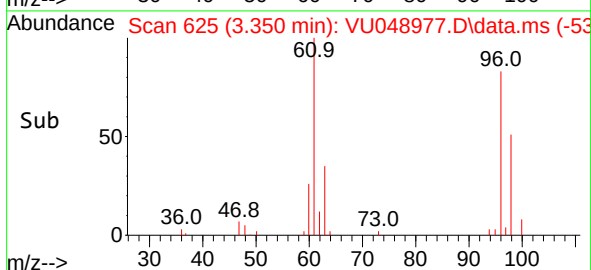
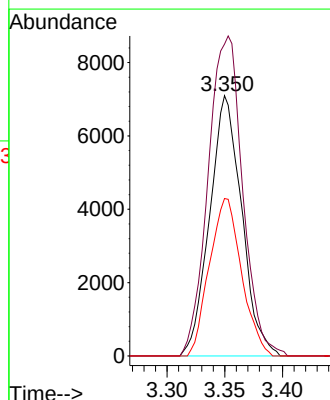
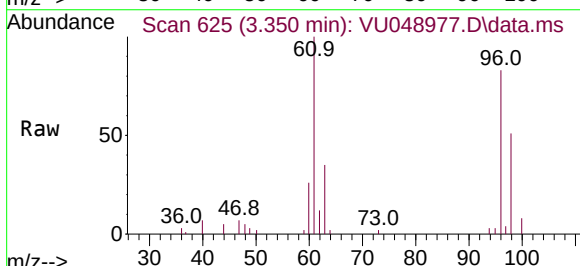
Tgt Ion: 96 Resp: 13723

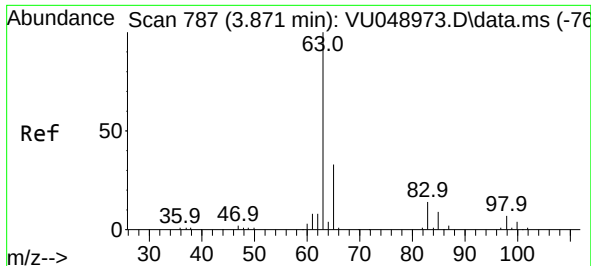
Ion Ratio Lower Upper

96 100

61 119.8 94.2 175.0

98 60.5 45.1 83.7





#19

1,1-Dichloroethane

Concen: 199.793 ug/L

RT: 3.867 min Scan# 787

Delta R.T. -0.003 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

Instrument :

MSVOA\_U

ClientSampleId :

EXYW8

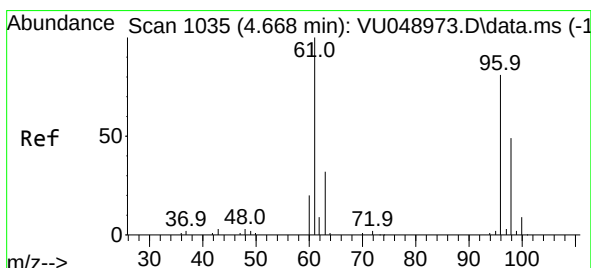
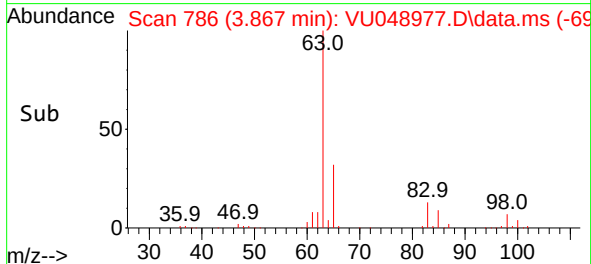
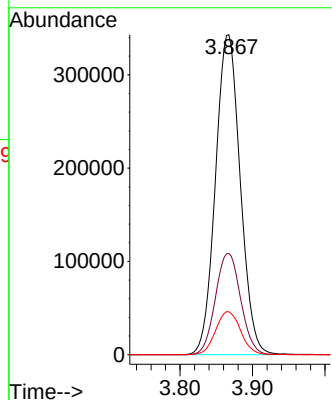
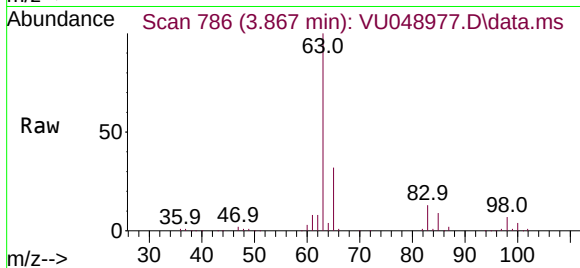
Tgt Ion: 63 Resp: 814205

Ion Ratio Lower Upper

63 100

65 31.6 21.8 40.6

83 13.4 9.8 18.2



#20

cis-1,2-Dichloroethene

Concen: 94.656 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

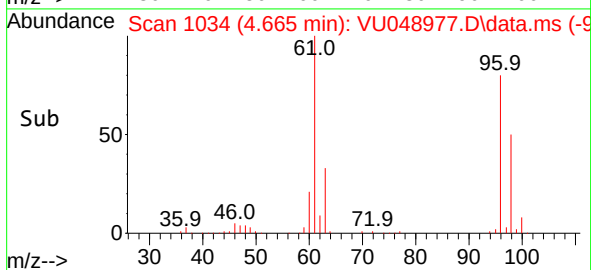
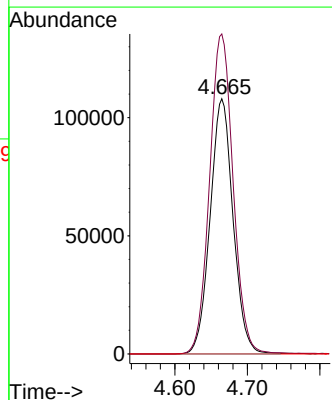
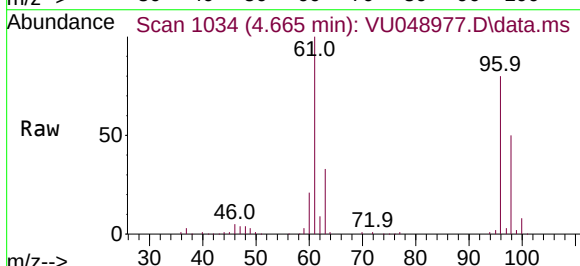
Tgt Ion: 96 Resp: 237615

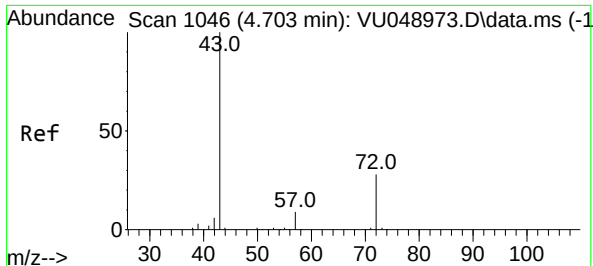
Ion Ratio Lower Upper

96 100

61 125.4 88.3 164.1

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 1.014 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. 0.010 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

Instrument :

MSVOA\_U

ClientSampleId :

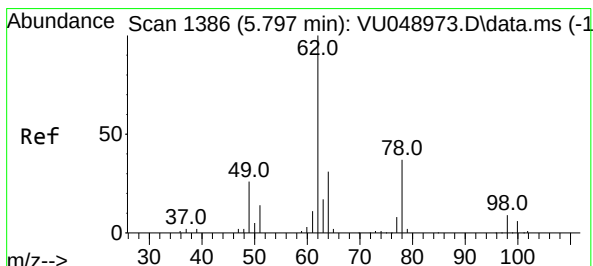
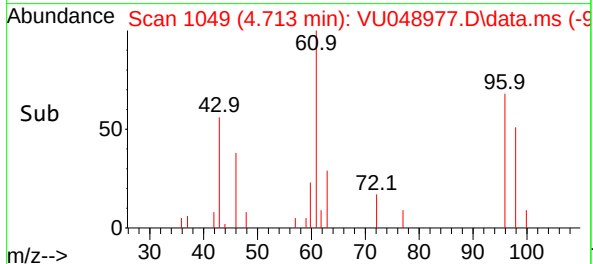
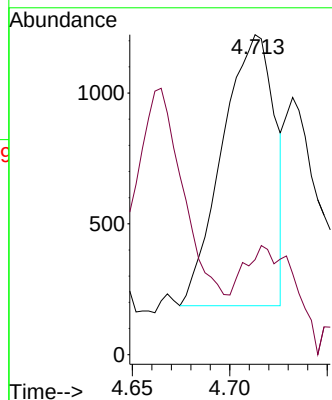
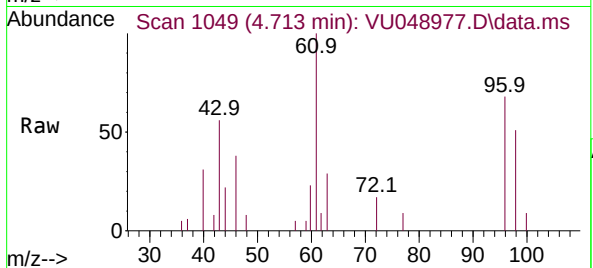
EXYW8

Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

43 100

72 2.6 15.4 46.2#



#27

1,2-Dichloroethane

Concen: 0.477 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. 0.003 min

Lab File: VU048977.D

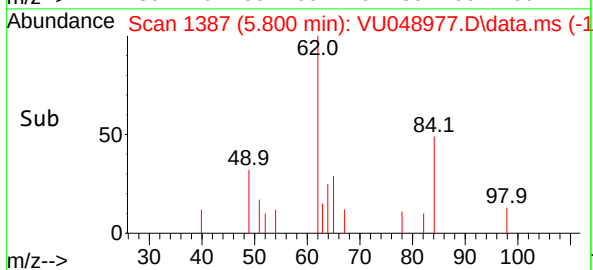
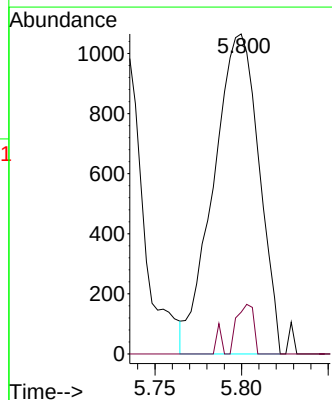
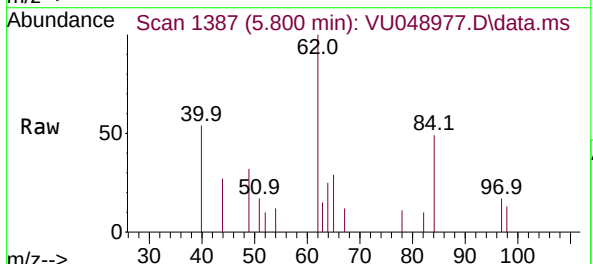
Acq: 09 Jun 2022 14:20

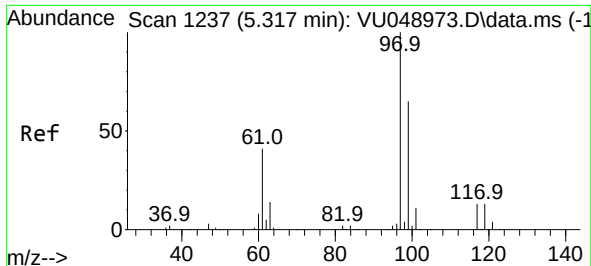
Tgt Ion: 62 Resp: 1947

Ion Ratio Lower Upper

62 100

98 13.1 6.0 9.0#





#30

1,1,1-Trichloroethane

Concen: 402.229 ug/L

RT: 5.314 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU048977.D

Acq: 09 Jun 2022 14:20

Instrument :

MSVOA\_U

ClientSampleId :

EXYW8

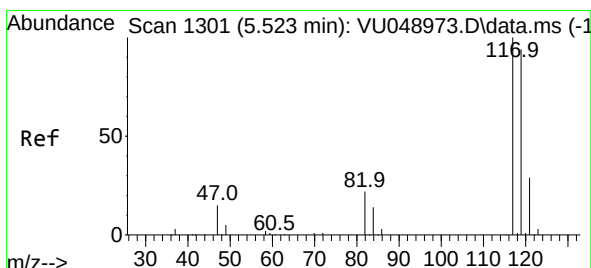
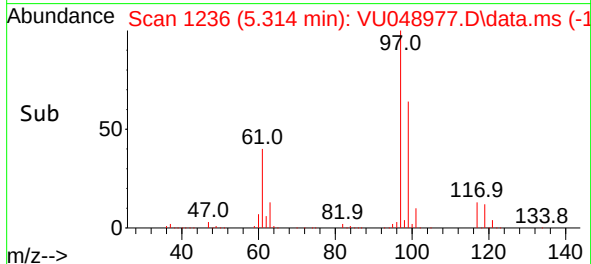
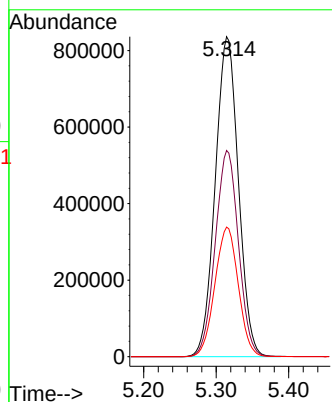
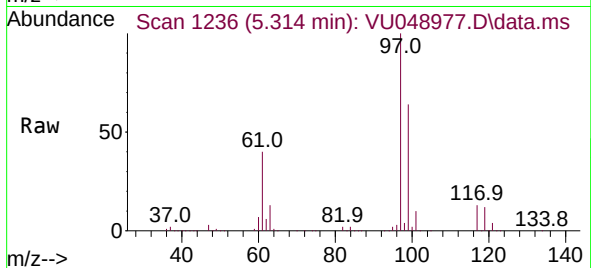
Tgt Ion: 97 Resp: 1857831

Ion Ratio Lower Upper

97 100

99 64.7 50.3 75.5

61 41.0 32.6 48.8



#31

Carbon tetrachloride

Concen: 0.494 ug/L

RT: 5.520 min Scan# 1300

Delta R.T. -0.003 min

Lab File: VU048977.D

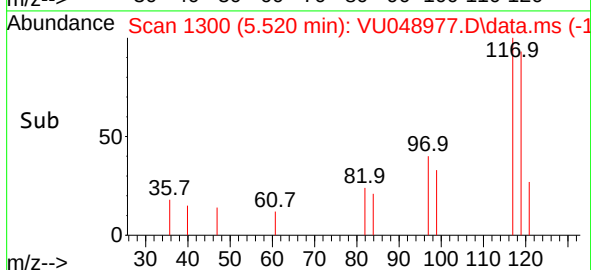
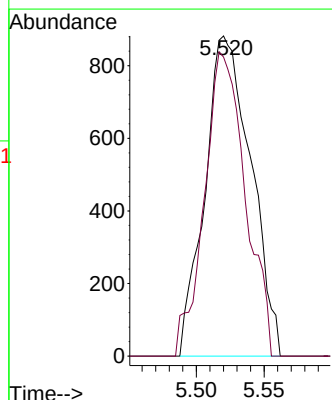
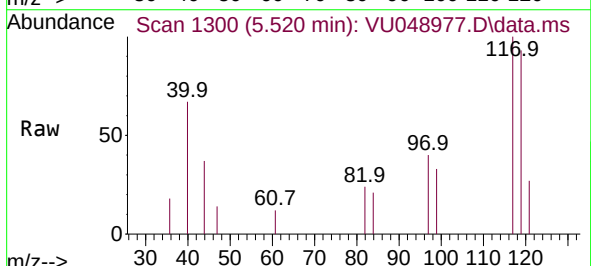
Acq: 09 Jun 2022 14:20

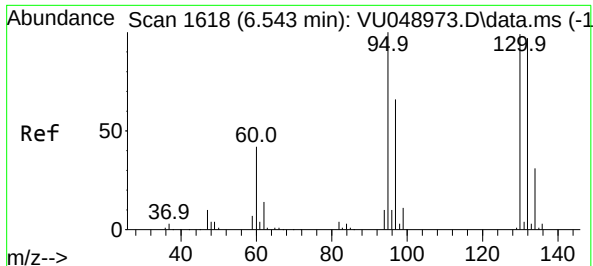
Tgt Ion: 117 Resp: 2081

Ion Ratio Lower Upper

117 100

119 81.1 76.0 114.0

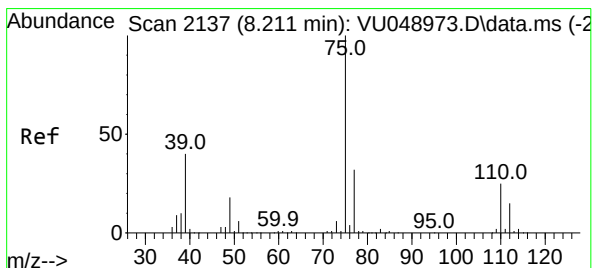
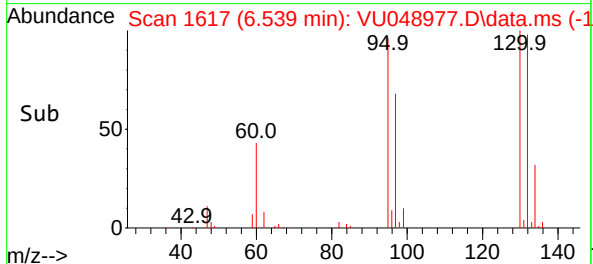
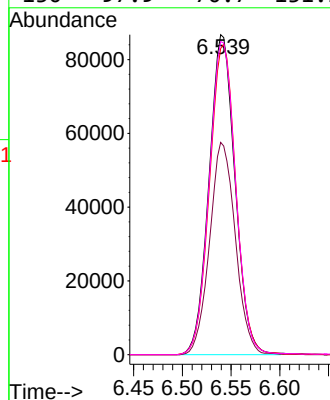
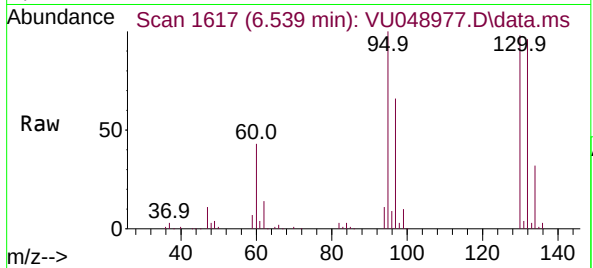




#34  
Trichloroethene  
Concen: 63.801 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.003 min  
Lab File: VU048977.D  
Acq: 09 Jun 2022 14:20

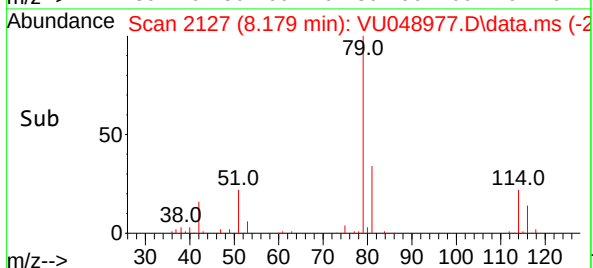
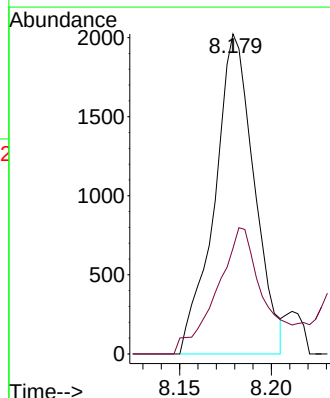
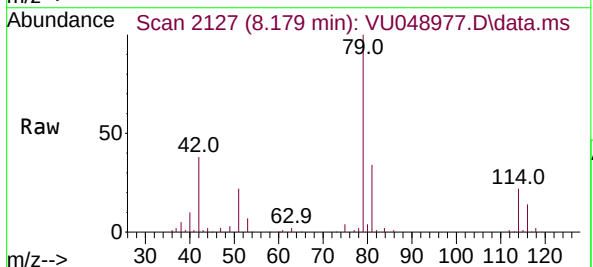
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYW8

Tgt Ion: 95 Resp: 160871  
Ion Ratio Lower Upper  
95 100  
97 66.4 45.2 84.0  
132 95.7 67.3 124.9  
130 97.9 70.7 131.3

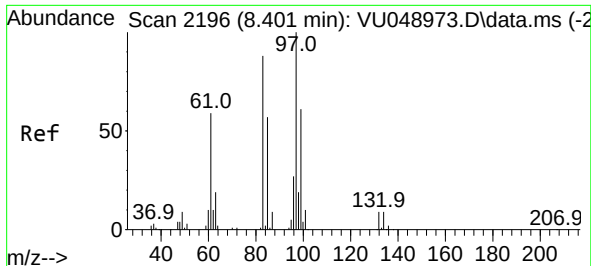


#44  
trans-1,3-Dichloropropene  
Concen: 0.758 ug/L  
RT: 8.179 min Scan# 2127  
Delta R.T. -0.032 min  
Lab File: VU048977.D  
Acq: 09 Jun 2022 14:20

Tgt Ion: 75 Resp: 3040  
Ion Ratio Lower Upper  
75 100  
77 33.0 22.7 42.1



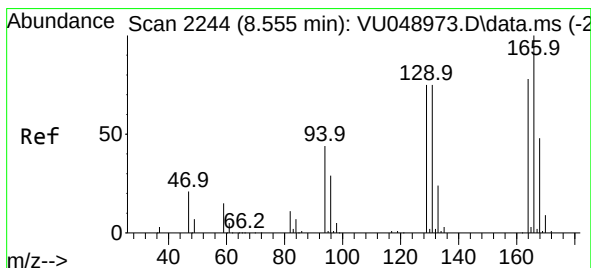
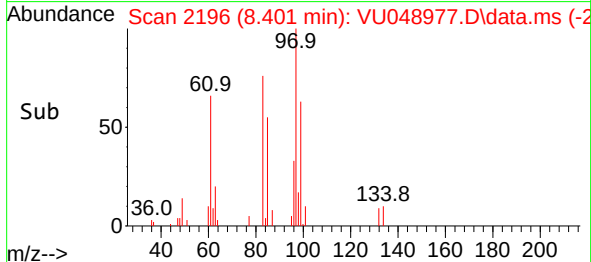
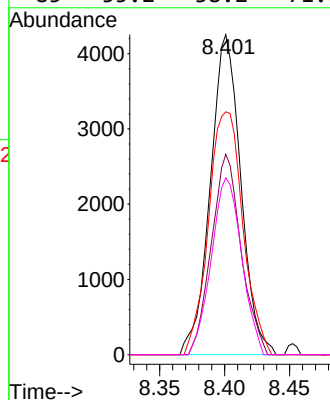
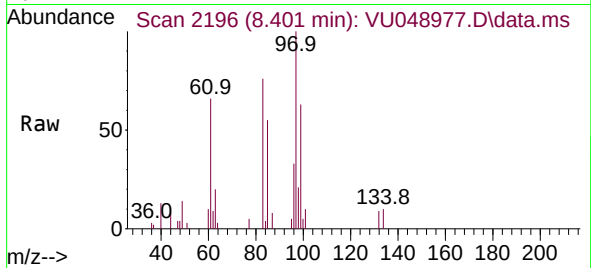




#45  
1,1,2-Trichloroethane  
Concen: 2.902 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: VU048977.D  
Acq: 09 Jun 2022 14:20

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYW8

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 6926  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 62.6     | 42.2 78.4   |
| 83 75.9     | 58.4 108.6  |
| 85 55.2     | 38.2 71.0   |



#46  
Tetrachloroethene  
Concen: 81.871 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.003 min  
Lab File: VU048977.D  
Acq: 09 Jun 2022 14:20

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 168451 |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 129 | 94.1    | 64.3  | 119.3  |
| 131 | 93.0    | 64.5  | 119.7  |
| 166 | 128.5   | 87.5  | 162.5  |

