

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061022\  
 Data File : VU049045.D  
 Acq On : 11 Jun 2022 10:39  
 Operator : SY/MD  
 Sample : N3249-08  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 11 10:57:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM061022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jun 11 04:33:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                         |                |      |                      |         |        |          |
| Internal Standards            |                |      |                      |         |        |          |
| 1) 1,4-Difluorobenzene        | 6.247          | 114  | 240320               | 50.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417          | 117  | 232391               | 50.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.813         | 152  | 98874                | 50.000  | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |                      |         |        |          |
| 4) Vinyl Chloride-d3          | 1.598          | 65   | 74718                | 50.469  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 100.940%  |         |        |          |
| 7) Chloroethane-d5            | 1.906          | 69   | 55334                | 50.904  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 101.800%  |         |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.565          | 63   | 107061               | 38.324  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 76.640%   |         |        |          |
| 21) 2-Butanone-d5             | 4.620          | 46   | 167874               | 103.422 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 103.420%  |         |        |          |
| 24) Chloroform-d              | 5.064          | 84   | 171641               | 54.347  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 108.700%  |         |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.700          | 65   | 116139               | 56.760  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 113.520%  |         |        |          |
| 32) Benzene-d6                | 5.726          | 84   | 323637               | 56.162  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 112.320%  |         |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.687          | 67   | 110123               | 56.846  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 113.700%  |         |        |          |
| 41) Toluene-d8                | 7.896          | 98   | 275572               | 54.224  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 108.440%  |         |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 41158                | 45.161  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 90.320%   |         |        |          |
| 47) 2-Hexanone-d5             | 8.629          | 63   | 91959                | 90.700  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 90.700%   |         |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755         | 84   | 172746               | 53.390  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 106.780%  |         |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 105057               | 61.067  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 122.140%# |         |        |          |
| Target Compounds              |                |      |                      |         |        |          |
|                               |                |      |                      |         | Qvalue |          |
| 5) vinyl chloride             | 1.604          | 62   | 111383               | 52.561  | ug/L   | 100      |
| 8) Chloroethane               | 1.929          | 64   | 1751                 | 1.479   | ug/L # | 80       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.559          | 101  | 684                  | 0.404   | ug/L # | 19       |
| 12) 1,1-Dichloroethene        | 2.578          | 96   | 6847                 | 4.620   | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 3.356          | 96   | 14588                | 8.953   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.868          | 63   | 678370               | 193.246 | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.665          | 96   | 573696               | 289.391 | ug/L   | 100      |
| 27) 1,2-Dichloroethane        | 5.797          | 62   | 7660                 | 2.572   | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314          | 97   | 233652               | 72.095  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.318          | 117  | 29365                | 10.360  | ug/L   | 95       |
| 33) Benzene                   | 5.771          | 78   | 7768                 | 1.032   | ug/L   | 100      |
| 34) Trichloroethene           | 6.543          | 95   | 26984                | 14.219  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.691          | 63   | 11955                | 5.631   | ug/L # | 88       |
| 45) 1,1,2-Trichloroethane     | 8.401          | 97   | 1347                 | 0.655   | ug/L   | 90       |
| 46) Tetrachloroethene         | 8.552          | 164  | 12404                | 8.431   | ug/L   | 87       |
| 49) Dibromochloromethane      | 8.552          | 129  | 11488                | 5.015   | ug/L # | 11       |
| -----                         |                |      |                      |         |        |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU061022\  
Data File : VU049045.D  
Acq On : 11 Jun 2022 10:39  
Operator : SY/MD  
Sample : N3249-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 59 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

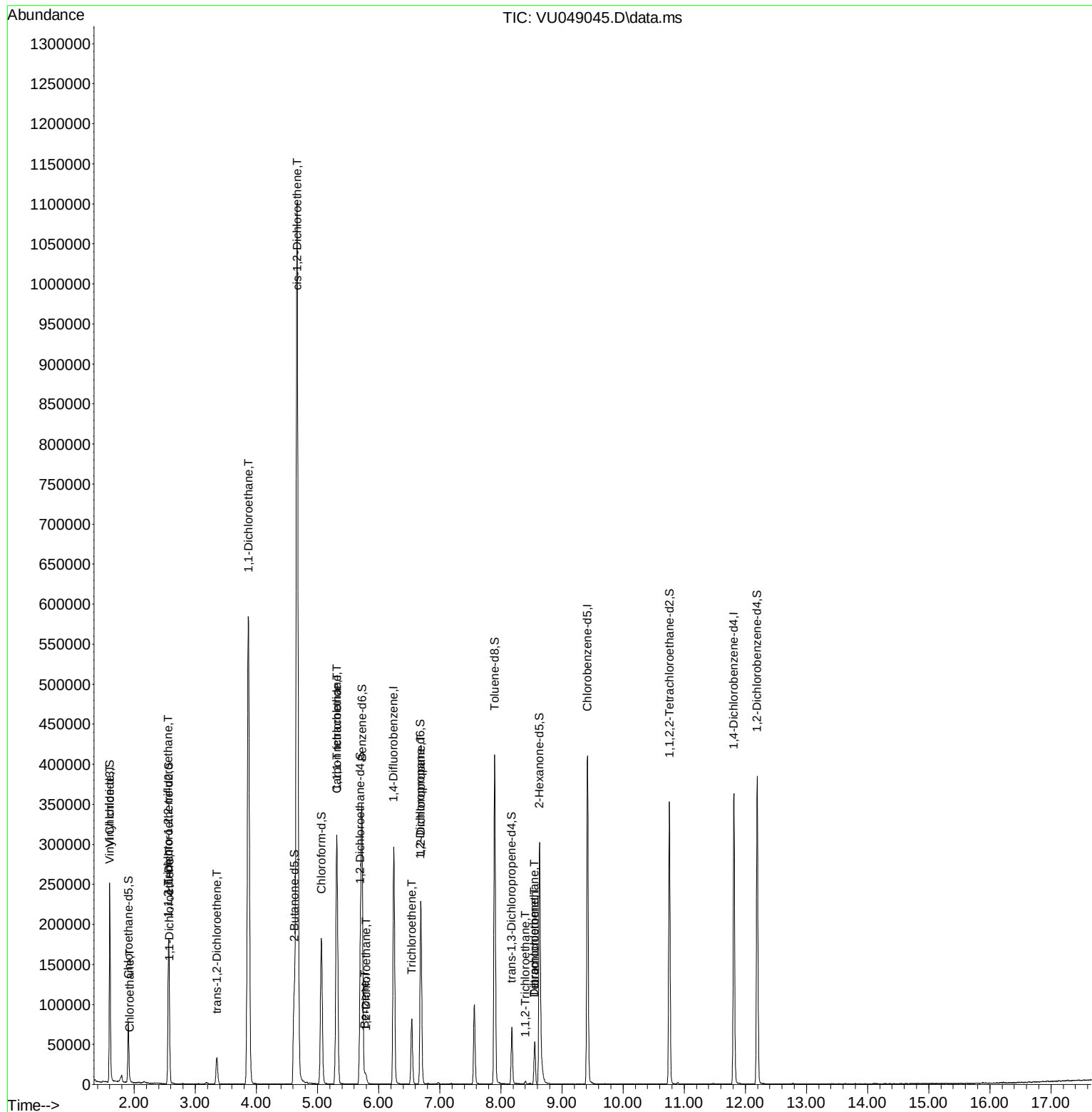
Quant Time: Jun 11 10:57:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM061022WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 11 04:33:31 2022  
Response via : Initial Calibration

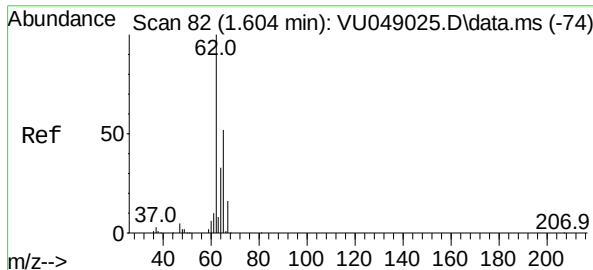
| Compound                                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Data File : VU049045.D  
Acq On : 11 Jun 2022 10:39  
Operator : SY/MD  
Sample : N3249-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 59 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 11 10:57:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM061022WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 11 04:33:31 2022  
Response via : Initial Calibration

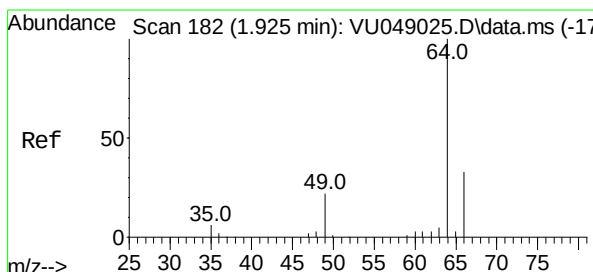
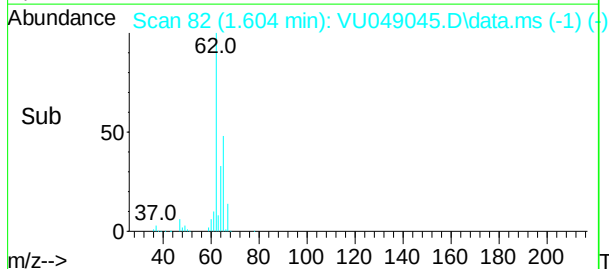
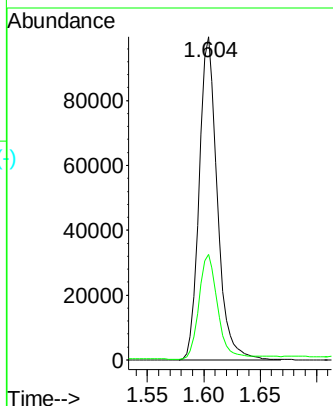
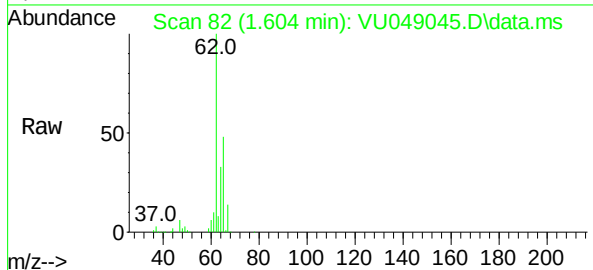




Vinyl chloride  
Concen: 52.561 ug/L  
RT: 1.604 min Scan# 82  
Delta R.T. 0.000 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

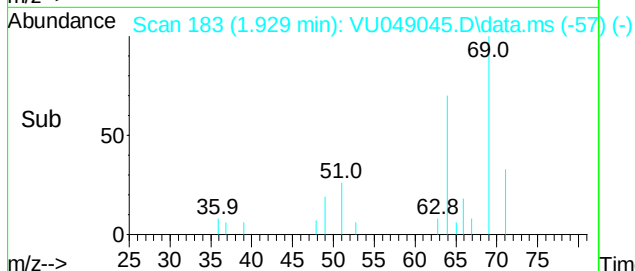
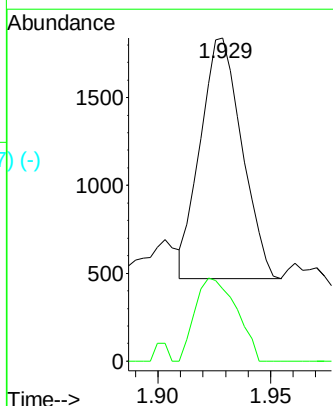
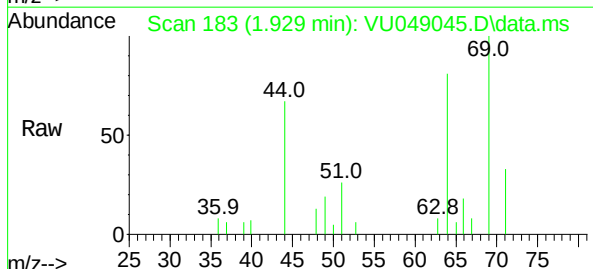
Instrument :  
MSVOA\_U  
ClientSampleId :

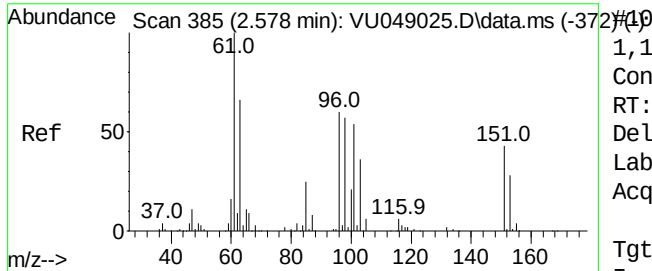
Tgt Ion: 62 Resp: 111383  
Ion Ratio Lower Upper  
62 100  
64 32.6 22.7 42.3



Chloroethane  
Concen: 1.479 ug/L  
RT: 1.929 min Scan# 183  
Delta R.T. 0.004 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Tgt Ion: 64 Resp: 1751  
Ion Ratio Lower Upper  
64 100  
66 22.3 23.7 43.9#

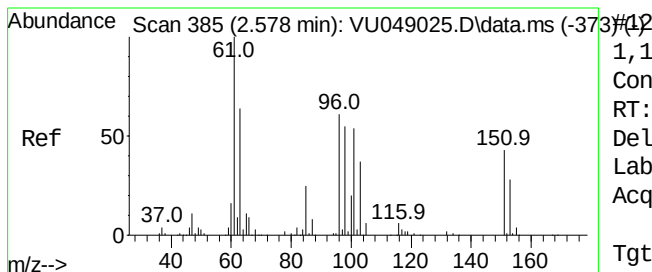
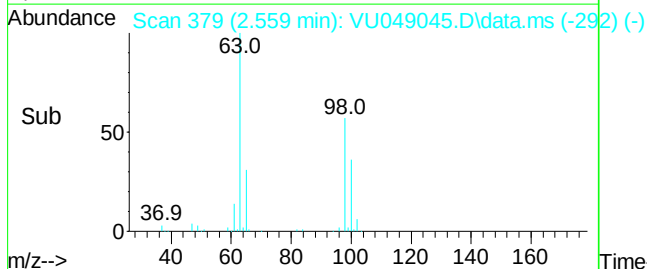
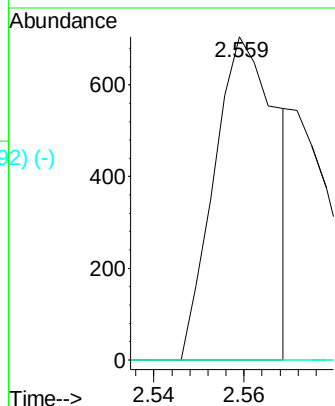
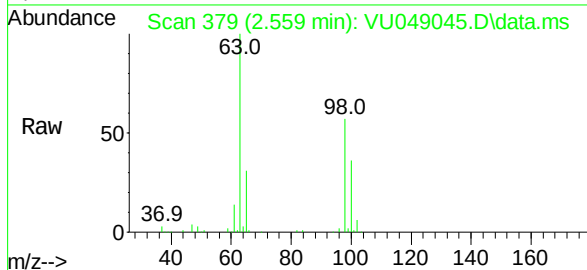




1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.404 ug/L  
 RT: 2.559 min Scan# 10  
 Delta R.T. -0.019 min  
 Lab File: VU049045.D  
 Acq: 11 Jun 2022 10:39

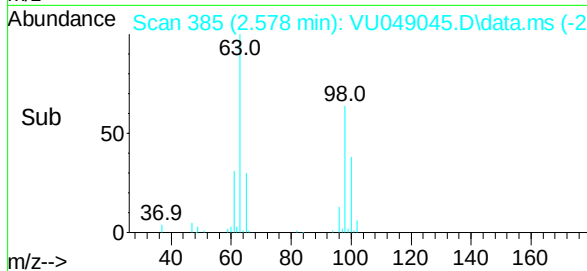
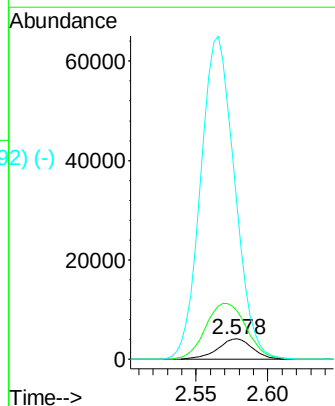
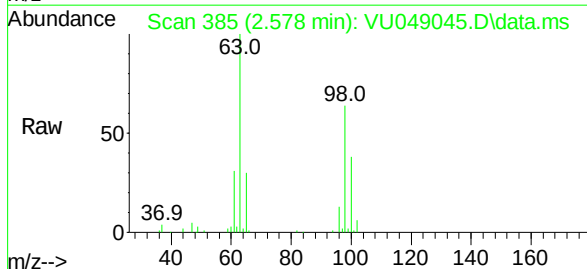
Instrument :  
 MSVOA\_U  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 684   |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 0.0   | 35.2  | 52.8# |
| 151      | 0.0   | 61.4  | 92.2# |

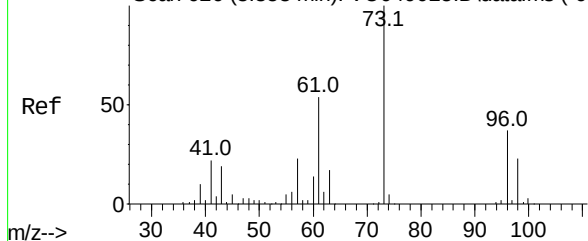


1,1-Dichloroethene  
 Concen: 4.620 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU049045.D  
 Acq: 11 Jun 2022 10:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 6847   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 237.0 | 123.5 | 229.3# |
| 63       | 757.6 | 86.0  | 159.8# |



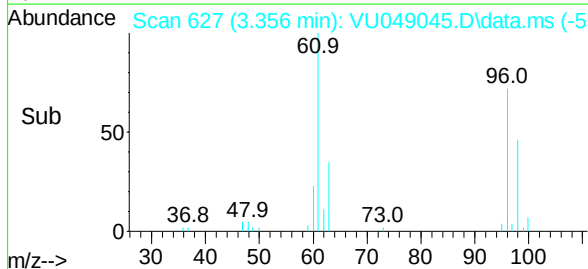
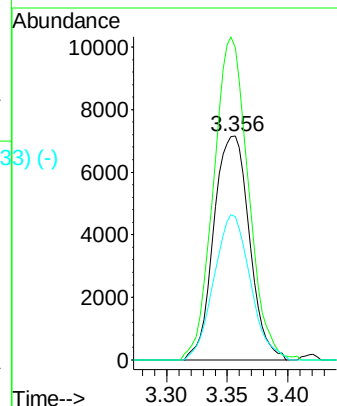
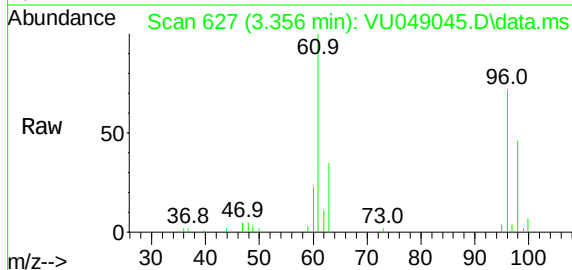
Abundance Scan 626 (3.353 min): VU049025.D\data.ms (-612) #17



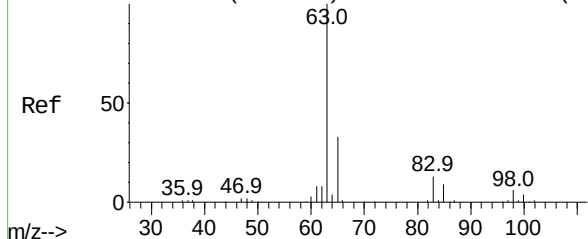
trans-1,2-Dichloroethene  
Concen: 8.953 ug/L  
RT: 3.356 min Scan# 17  
Delta R.T. 0.004 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 96 Resp: 14588  
Ion Ratio Lower Upper  
96 100  
61 139.3 99.3 184.3  
98 64.1 44.7 83.1

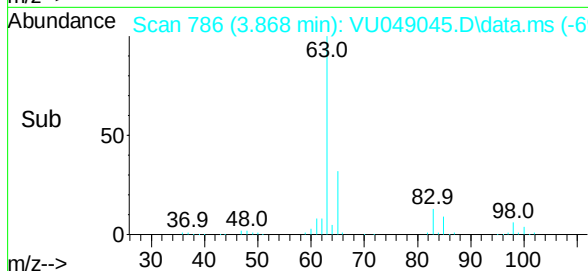
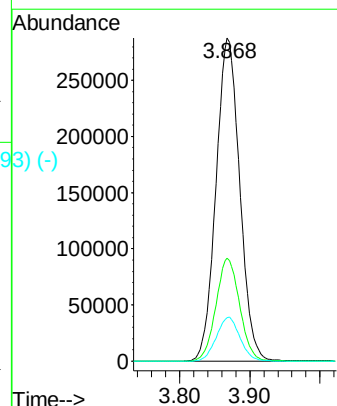
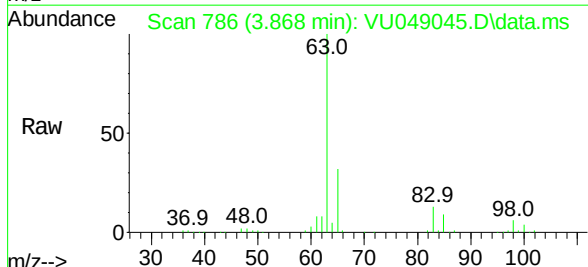


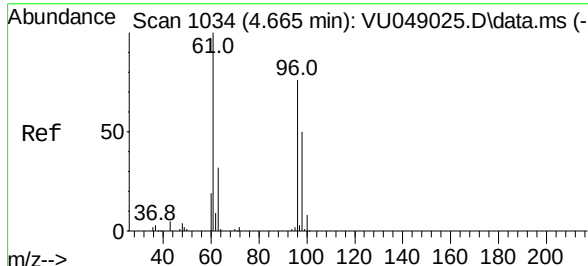
Abundance Scan 786 (3.867 min): VU049025.D\data.ms (-768) #19



1,1-Dichloroethane  
Concen: 193.246 ug/L  
RT: 3.868 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Tgt Ion: 63 Resp: 678370  
Ion Ratio Lower Upper  
63 100  
65 31.8 22.3 41.5  
83 13.4 9.5 17.7

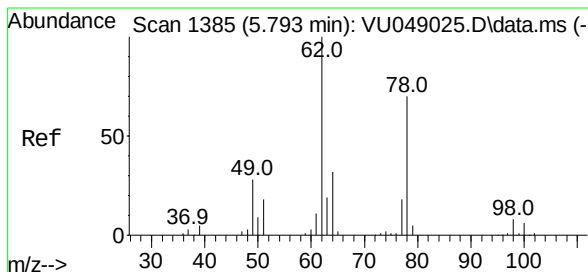
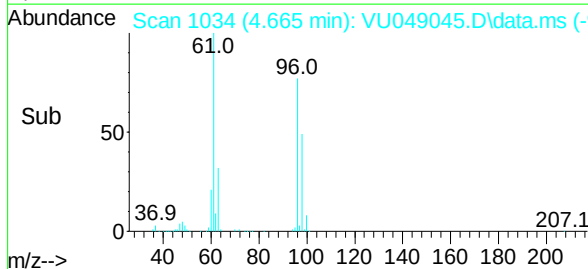
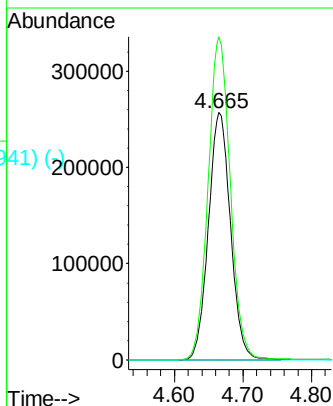
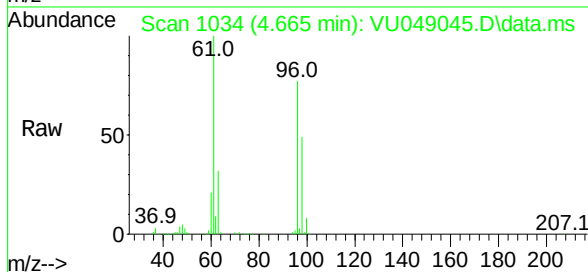




cis-1,2-Dichloroethene  
Concen: 289.391 ug/L  
RT: 4.665 min Scan# 1034  
Delta R.T. 0.000 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

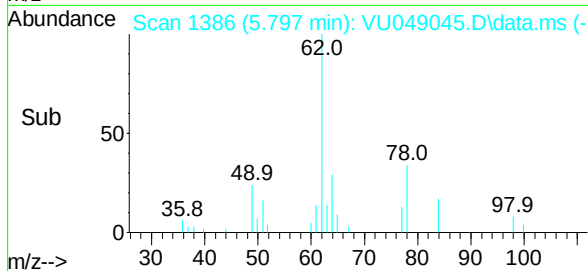
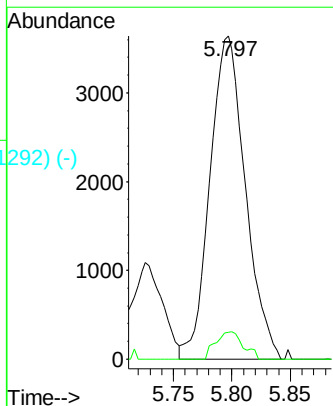
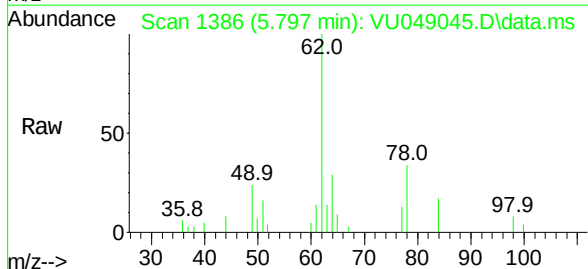
Instrument :  
MSVOA\_U  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 573696 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 130.6 | 91.6  | 170.2  |
| 68       | 0.0   | 0.0   | 0.0    |

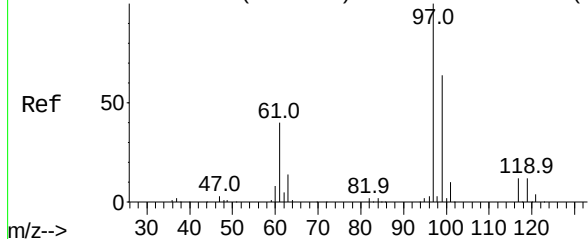


1,2-Dichloroethane  
Concen: 2.572 ug/L  
RT: 5.797 min Scan# 1386  
Delta R.T. 0.004 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 7660  |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.3   | 7.0   | 10.4  |



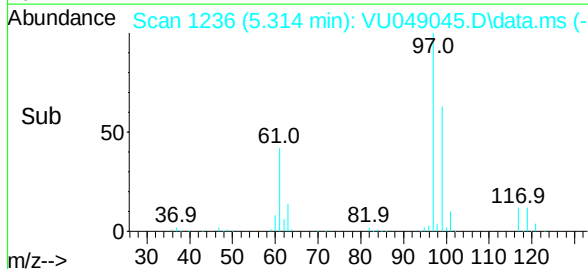
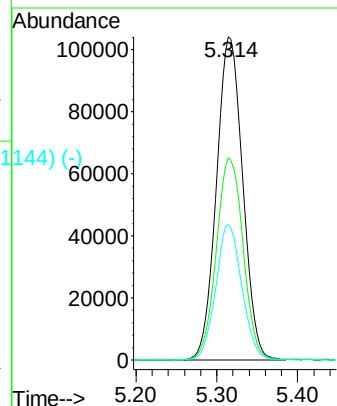
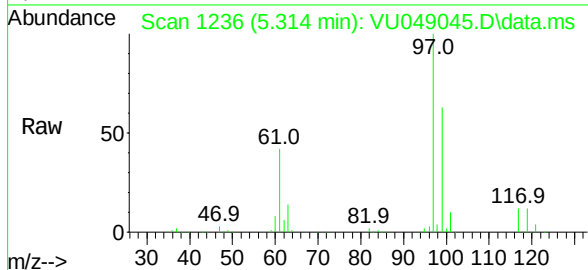
Abundance Scan 1237 (5.317 min): VU049025.D\data.ms (-1230) (-)



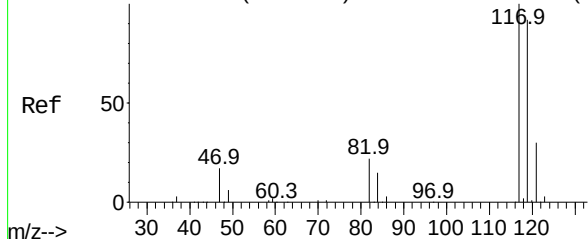
1,1,1-Trichloroethane  
Concen: 72.095 ug/L  
RT: 5.314 min Scan# 1237  
Delta R.T. -0.003 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Instrument : MSVOA\_U  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 233652 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.7  | 50.9  | 76.3   |
| 61       | 41.6  | 34.2  | 51.2   |

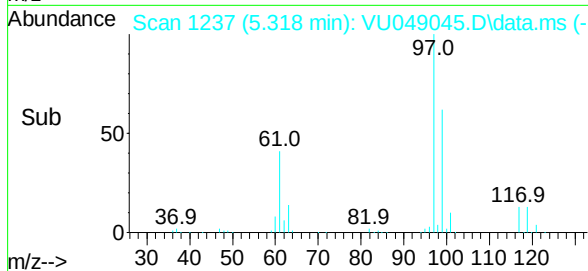
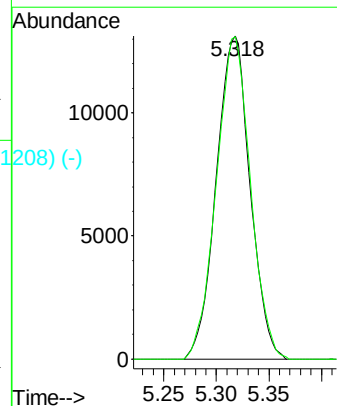
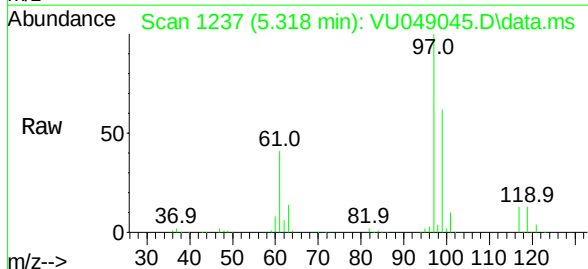


Abundance Scan 1301 (5.523 min): VU049025.D\data.ms (-1281) (-)

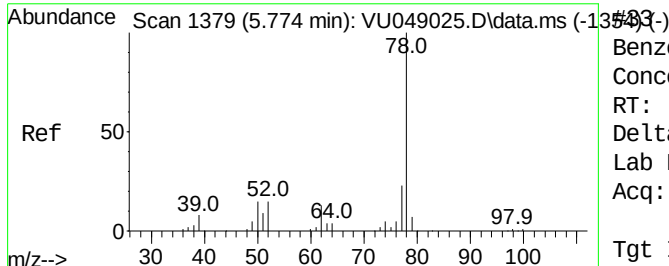


Carbon tetrachloride  
Concen: 10.360 ug/L  
RT: 5.318 min Scan# 1237  
Delta R.T. -0.205 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 29365 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 100.5 | 76.5  | 114.7 |



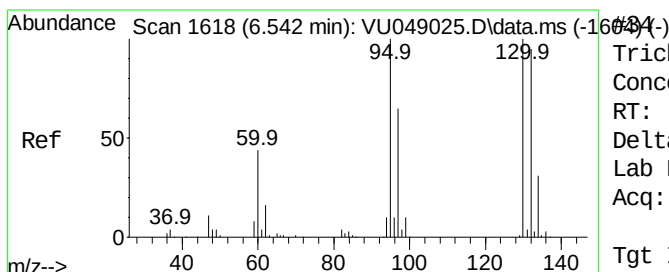
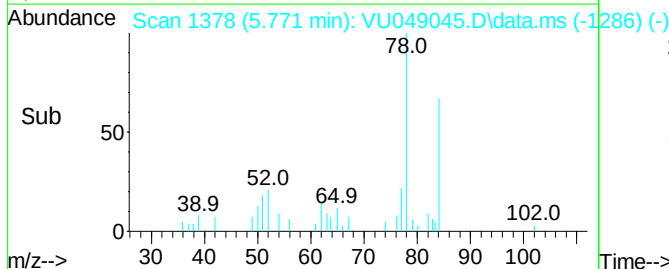
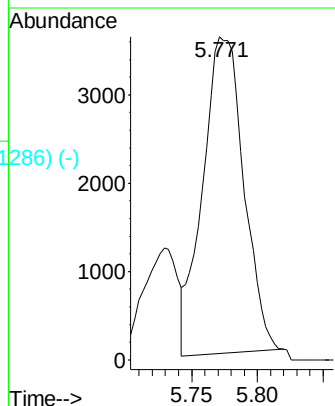
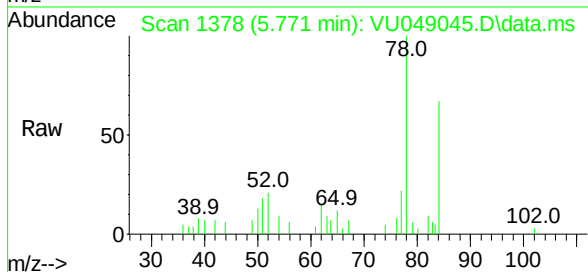




Benzene  
Concen: 1.032 ug/L  
RT: 5.771 min Scan# 1379  
Delta R.T. -0.003 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Instrument :  
MSVOA\_U  
ClientSampleId :

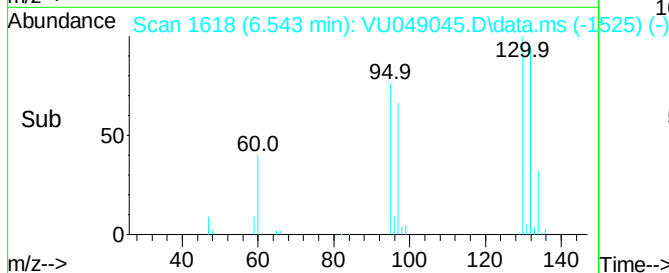
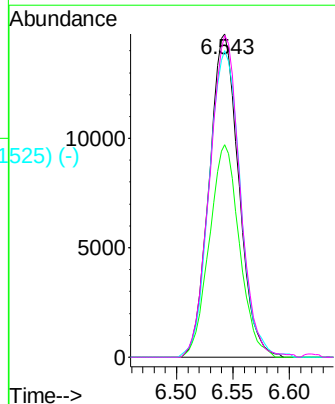
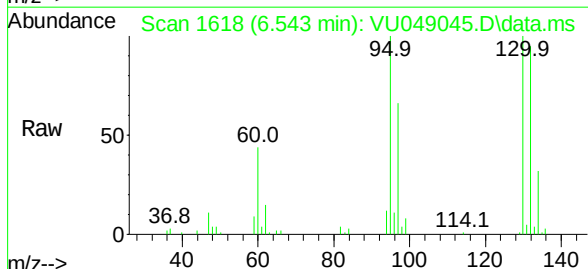
Tgt Ion: 78 Resp: 7768



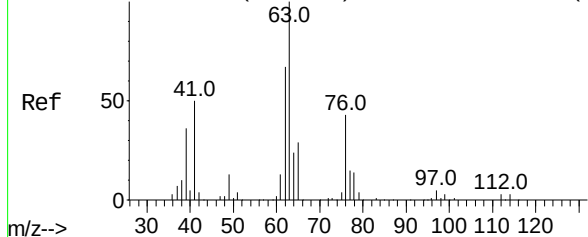
Trichloroethene  
Concen: 14.219 ug/L  
RT: 6.543 min Scan# 1618  
Delta R.T. 0.000 min  
Lab File: VU049045.D  
Acq: 11 Jun 2022 10:39

Tgt Ion: 95 Resp: 26984

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.8  | 45.4  | 84.4  |
| 132 | 94.8  | 67.6  | 125.6 |
| 130 | 99.6  | 70.1  | 130.3 |



Abundance Scan 1695 (6.790 min): VU049025.D\data.ms (-1695) (-)



1,2-Dichloropropane

Concen: 5.631 ug/L

RT: 6.691 min Scan#

Delta R.T. -0.099 min

Lab File: VU049045.D

Acq: 11 Jun 2022 10:39

Instrument :

MSVOA\_U

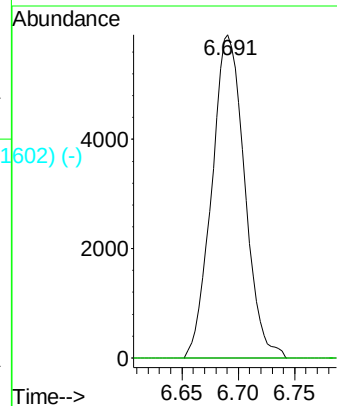
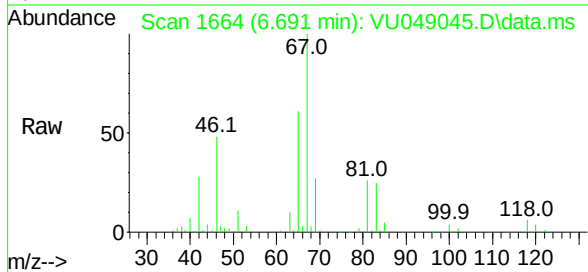
ClientSampleId :

Tgt Ion: 63 Resp: 11955

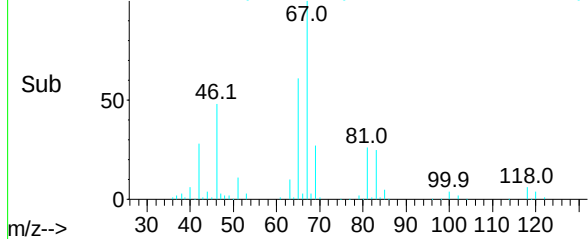
Ion Ratio Lower Upper

63 100

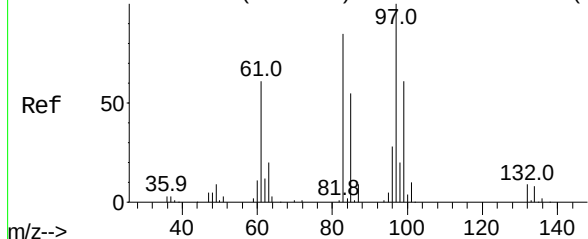
112 0.0 3.2 4.8#



Abundance Scan 1664 (6.691 min): VU049045.D\data.ms (-1602) (-)



Abundance Scan 2196 (8.401 min): VU049025.D\data.ms (-2195) (-)



1,1,2-Trichloroethane

Concen: 0.655 ug/L

RT: 8.401 min Scan# 2196

Delta R.T. 0.000 min

Lab File: VU049045.D

Acq: 11 Jun 2022 10:39

Tgt Ion: 97 Resp: 1347

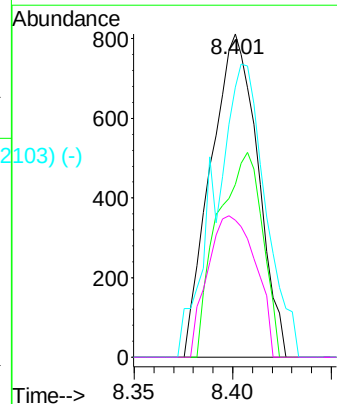
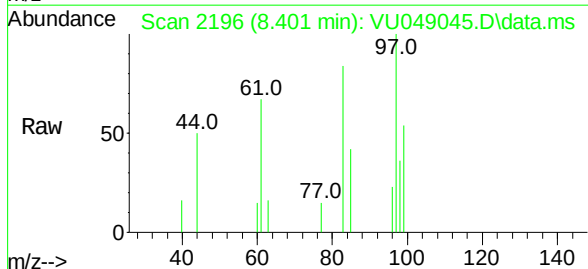
Ion Ratio Lower Upper

97 100

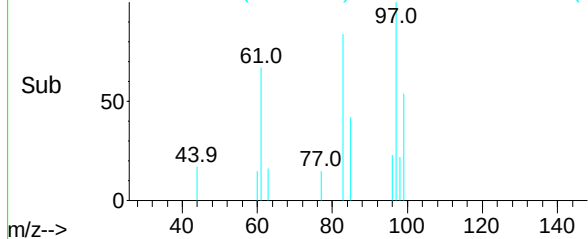
99 53.6 43.5 80.9

83 83.6 60.3 112.1

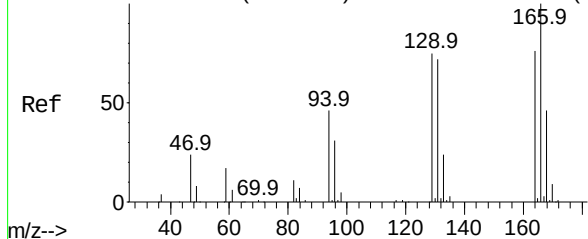
85 42.4 39.9 74.1



Abundance Scan 2196 (8.401 min): VU049045.D\data.ms (-2103) (-)



Abundance Scan 2243 (8.552 min): VU049025.D\data.ms (-2319) (-)



Tetrachloroethene

Concen: 8.431 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. 0.000 min

Lab File: VU049045.D

Acq: 11 Jun 2022 10:39

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion:164 Resp: 12404

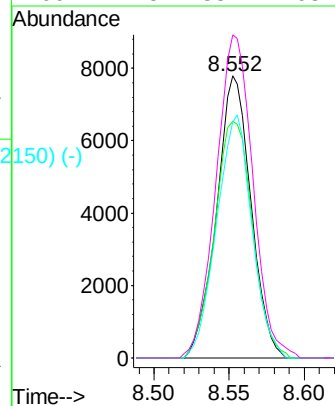
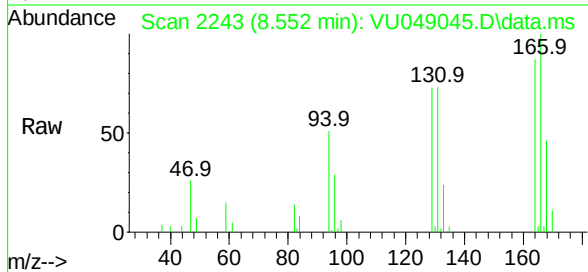
Ion Ratio Lower Upper

164 100

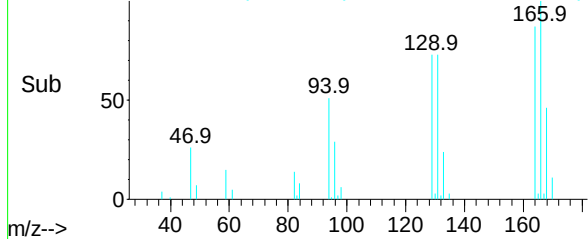
129 83.8 70.9 131.7

131 83.5 66.2 123.0

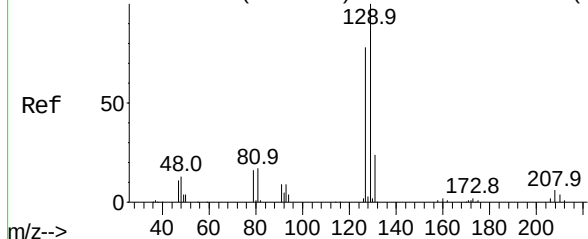
166 114.5 88.1 163.5



Abundance Scan 2243 (8.552 min): VU049045.D\data.ms (-2150) (-)



Abundance Scan 2323 (8.809 min): VU049025.D\data.ms (-2319) (-)



Dibromochloromethane

Concen: 5.015 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.257 min

Lab File: VU049045.D

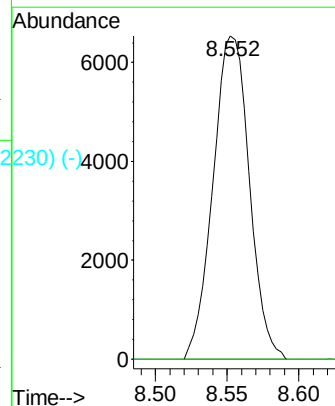
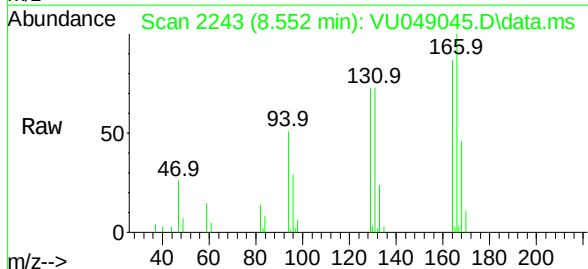
Acq: 11 Jun 2022 10:39

Tgt Ion:129 Resp: 11488

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#



Abundance Scan 2243 (8.552 min): VU049045.D\data.ms (-2230) (-)

