

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092122\  
 Data File : VU050875.D  
 Acq On : 21 Sep 2022 12:00  
 Operator : JC/MD  
 Sample : N4650-21DL 10X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZ38DL

Quant Time: Sep 22 02:12:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 22 02:11:06 2022  
 Response via : Initial Calibration

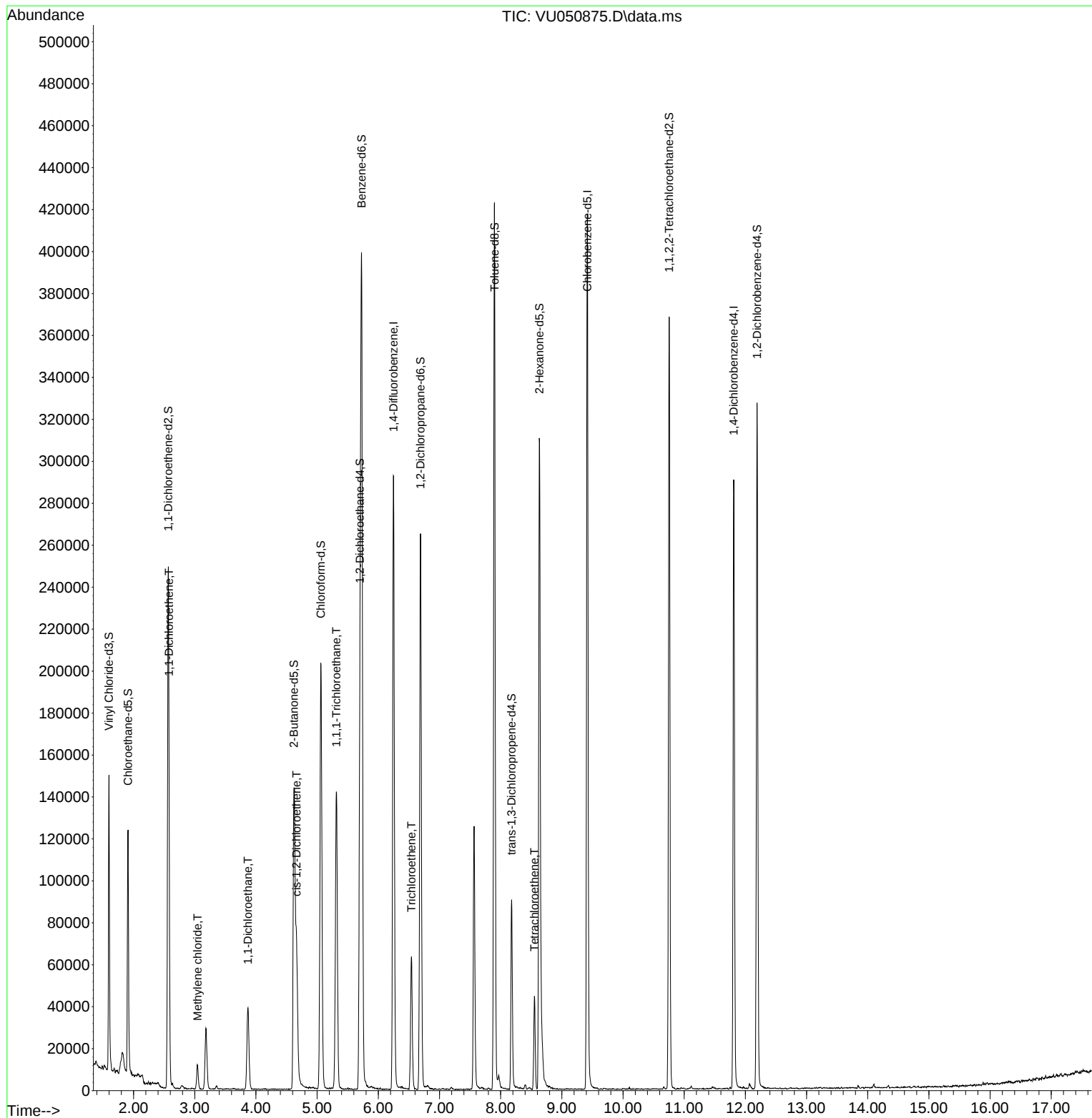
| Compound                      | R.T.    | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|---------|----------------|----------|---------|----------|----------|
| -----                         |         |                |          |         |          |          |
| Internal Standards            |         |                |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114            | 230336   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117            | 230896   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152            | 77725    | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |         |                |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65             | 104269   | 43.692  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 135 | Recovery | =       | 87.380%  |          |
| 7) Chloroethane-d5            | 1.909   | 69             | 87061    | 51.224  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 130 | Recovery | =       | 102.440% |          |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63             | 139116   | 37.464  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 74.920%  |          |
| 21) 2-Butanone-d5             | 4.620   | 46             | 180099   | 116.896 | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 40 - 130 | Recovery | =       | 116.900% |          |
| 24) Chloroform-d              | 5.060   | 84             | 191158   | 51.114  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 102.220% |          |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65             | 126083   | 54.705  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 109.420% |          |
| 32) Benzene-d6                | 5.726   | 84             | 371374   | 48.831  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 125 | Recovery | =       | 97.660%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67             | 130892   | 50.988  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 70 - 120 | Recovery | =       | 101.980% |          |
| 41) Toluene-d8                | 7.899   | 98             | 284946   | 42.863  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 85.720%  |          |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79             | 50603    | 45.312  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 60 - 125 | Recovery | =       | 90.620%  |          |
| 47) 2-Hexanone-d5             | 8.632   | 63             | 94700    | 89.516  | ug/L     | 0.00     |
| Spiked Amount                 | 100.000 | Range 45 - 130 | Recovery | =       | 89.520%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754  | 84             | 188467   | 48.154  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 65 - 120 | Recovery | =       | 96.300%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152            | 87662    | 53.867  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000  | Range 80 - 120 | Recovery | =       | 107.740% |          |
| Target Compounds              |         |                |          |         |          |          |
|                               |         |                |          |         | Qvalue   |          |
| 12) 1,1-Dichloroethene        | 2.578   | 96             | 21334    | 12.048  | ug/L     | # 12     |
| 16) Methylene chloride        | 3.044   | 84             | 5342     | 2.173   | ug/L     | 98       |
| 19) 1,1-Dichloroethane        | 3.867   | 63             | 46207    | 12.600  | ug/L     | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96             | 26521    | 13.179  | ug/L     | 96       |
| 30) 1,1,1-Trichloroethane     | 5.314   | 97             | 103559   | 33.713  | ug/L     | 99       |
| 34) Trichloroethene           | 6.542   | 95             | 20944    | 10.611  | ug/L     | 96       |
| 46) Tetrachloroethene         | 8.552   | 164            | 10194    | 7.187   | ug/L     | 87       |
| -----                         |         |                |          |         |          |          |

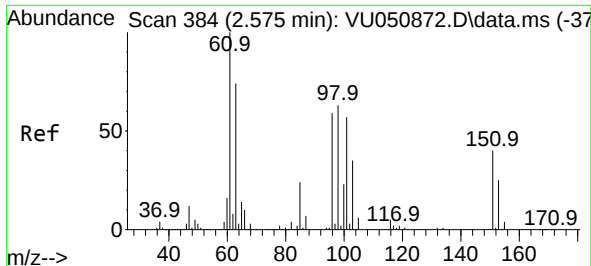
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Sep 22 02:11:06 2022  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 12.048 ug/L

RT: 2.578 min Scan# 3

Delta R.T. 0.003 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

Instrument :

MSVOA\_U

ClientSampleId :

EXZ38DL

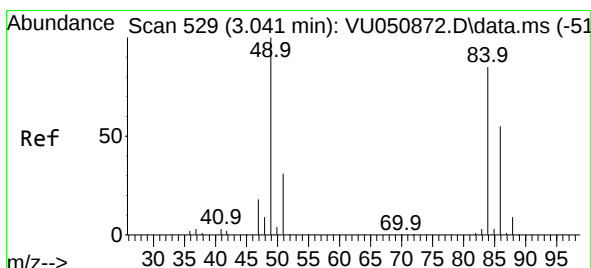
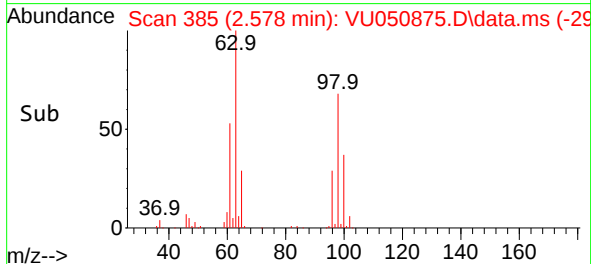
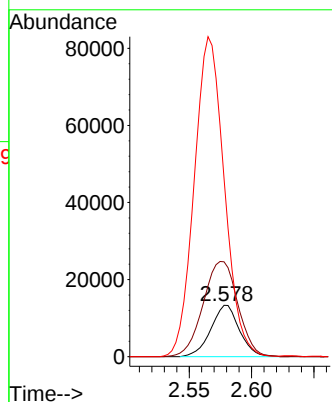
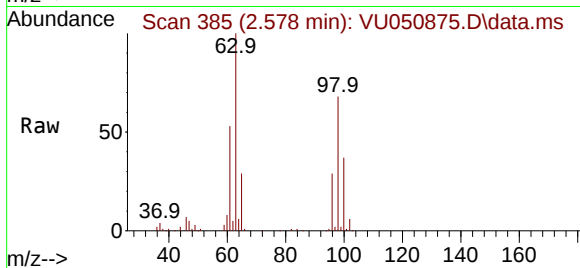
Tgt Ion: 96 Resp: 21334

Ion Ratio Lower Upper

96 100

61 184.7 118.6 220.2

63 347.4 90.4 168.0#



#16

Methylene chloride

Concen: 2.173 ug/L

RT: 3.044 min Scan# 530

Delta R.T. 0.003 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

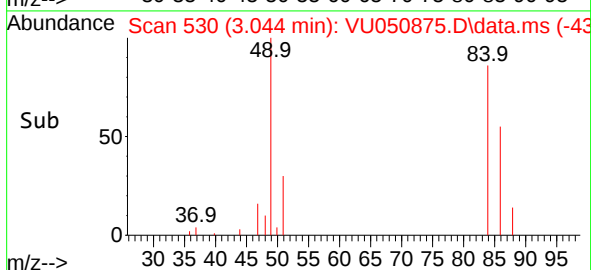
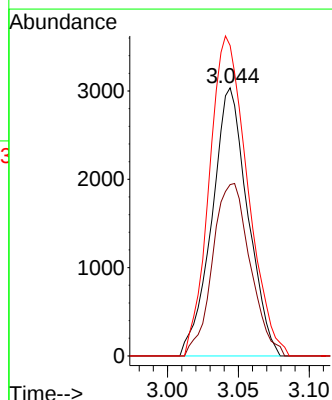
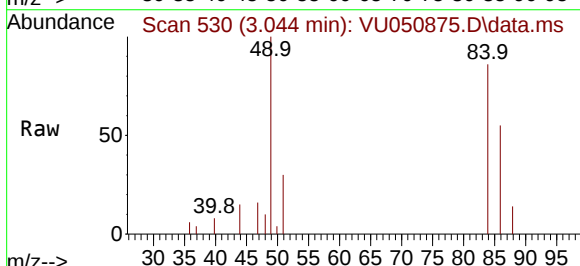
Tgt Ion: 84 Resp: 5342

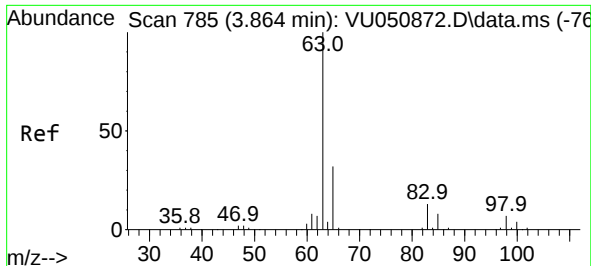
Ion Ratio Lower Upper

84 100

86 63.9 44.4 82.5

49 115.7 83.3 154.7





#19

1,1-Dichloroethane

Concen: 12.600 ug/L

RT: 3.867 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

Instrument :

MSVOA\_U

ClientSampleId :

EXZ38DL

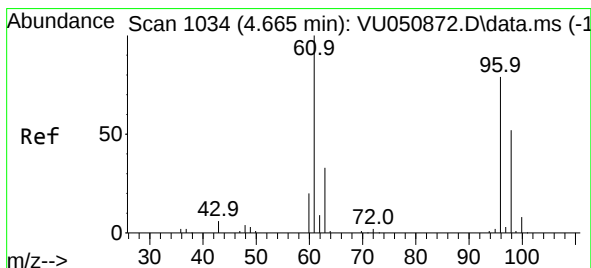
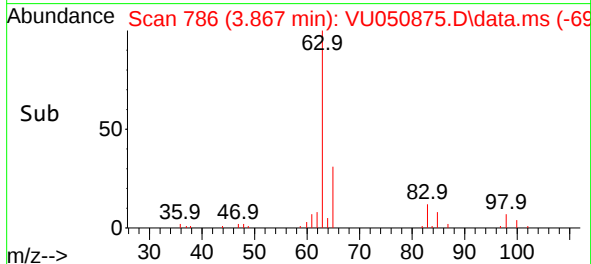
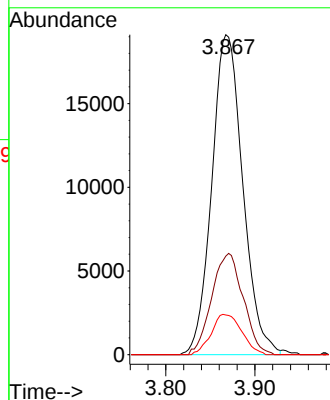
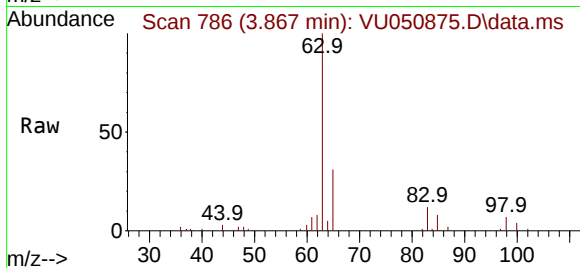
Tgt Ion: 63 Resp: 46207

Ion Ratio Lower Upper

63 100

65 30.8 21.5 39.9

83 12.4 9.3 17.3



#20

cis-1,2-Dichloroethene

Concen: 13.179 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

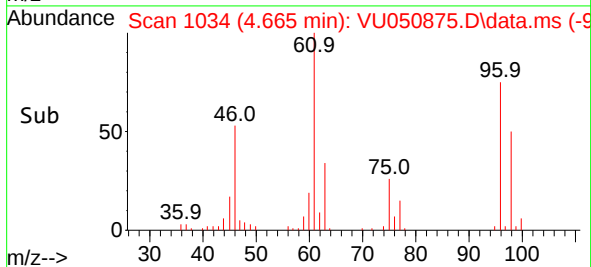
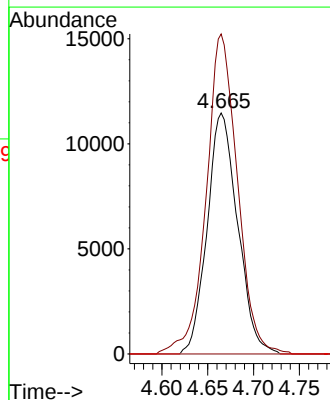
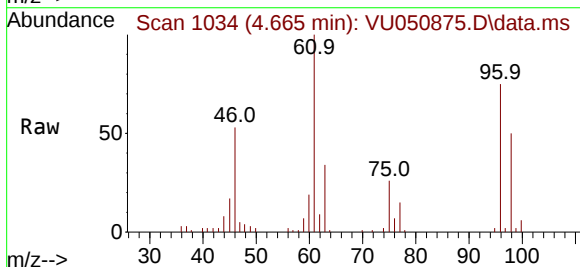
Tgt Ion: 96 Resp: 26521

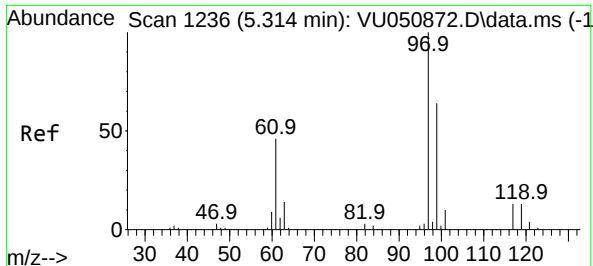
Ion Ratio Lower Upper

96 100

61 132.8 90.1 167.3

68 0.0 0.0 0.0





#30

1,1,1-Trichloroethane

Concen: 33.713 ug/L

RT: 5.314 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

Instrument :

MSVOA\_U

ClientSampleId :

EXZ38DL

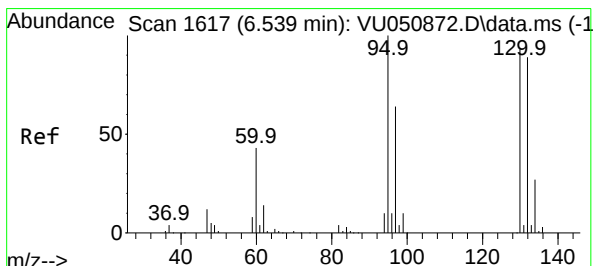
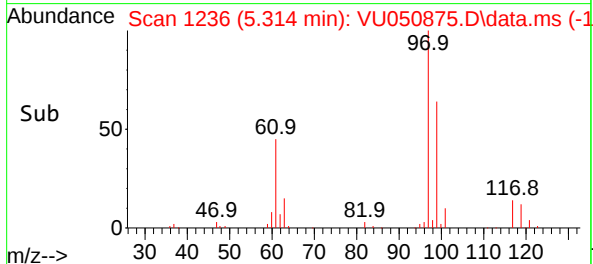
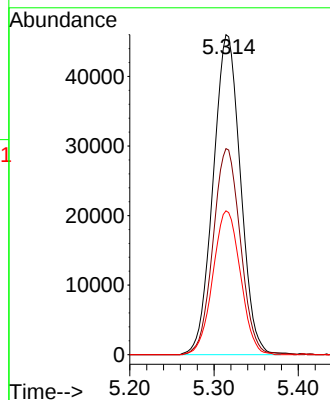
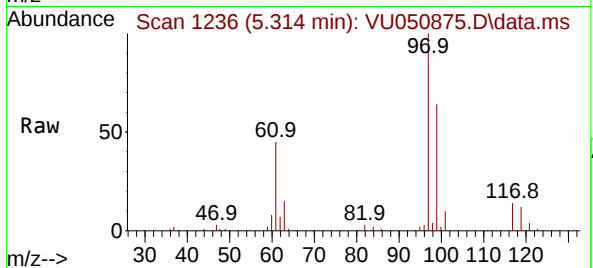
Tgt Ion: 97 Resp: 103559

Ion Ratio Lower Upper

97 100

99 64.5 52.2 78.2

61 45.4 37.1 55.7



#34

Trichloroethene

Concen: 10.611 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. 0.003 min

Lab File: VU050875.D

Acq: 21 Sep 2022 12:00

Tgt Ion: 95 Resp: 20944

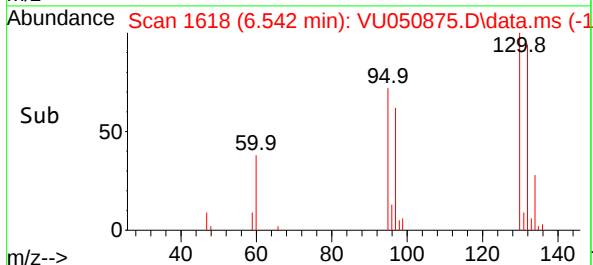
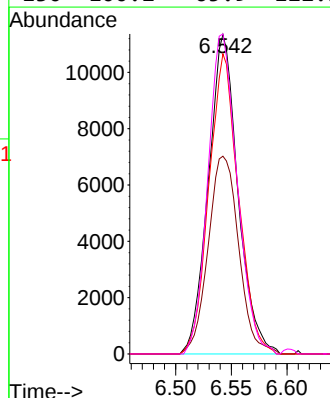
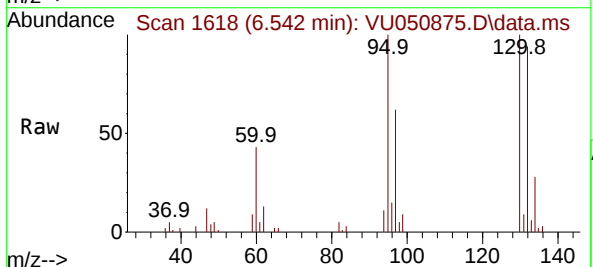
Ion Ratio Lower Upper

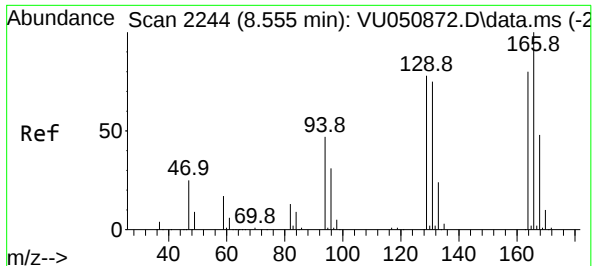
95 100

97 61.9 43.9 81.5

132 93.9 63.1 117.1

130 100.2 65.9 122.3





#46  
Tetrachloroethene  
Concen: 7.187 ug/L  
RT: 8.552 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU050875.D  
Acq: 21 Sep 2022 12:00

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXZ38DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 10194 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 86.8  | 68.5  | 127.3 |
| 131      | 77.2  | 66.1  | 122.7 |
| 166      | 115.3 | 88.8  | 164.8 |

