

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122821\  
 Data File : VU046619.D  
 Acq On : 28 Dec 2021 18:00  
 Operator : SY/MD  
 Sample : M5193-02  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0J04

Quant Time: Dec 29 01:31:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 29 01:29:25 2021  
 Response via : Initial Calibration

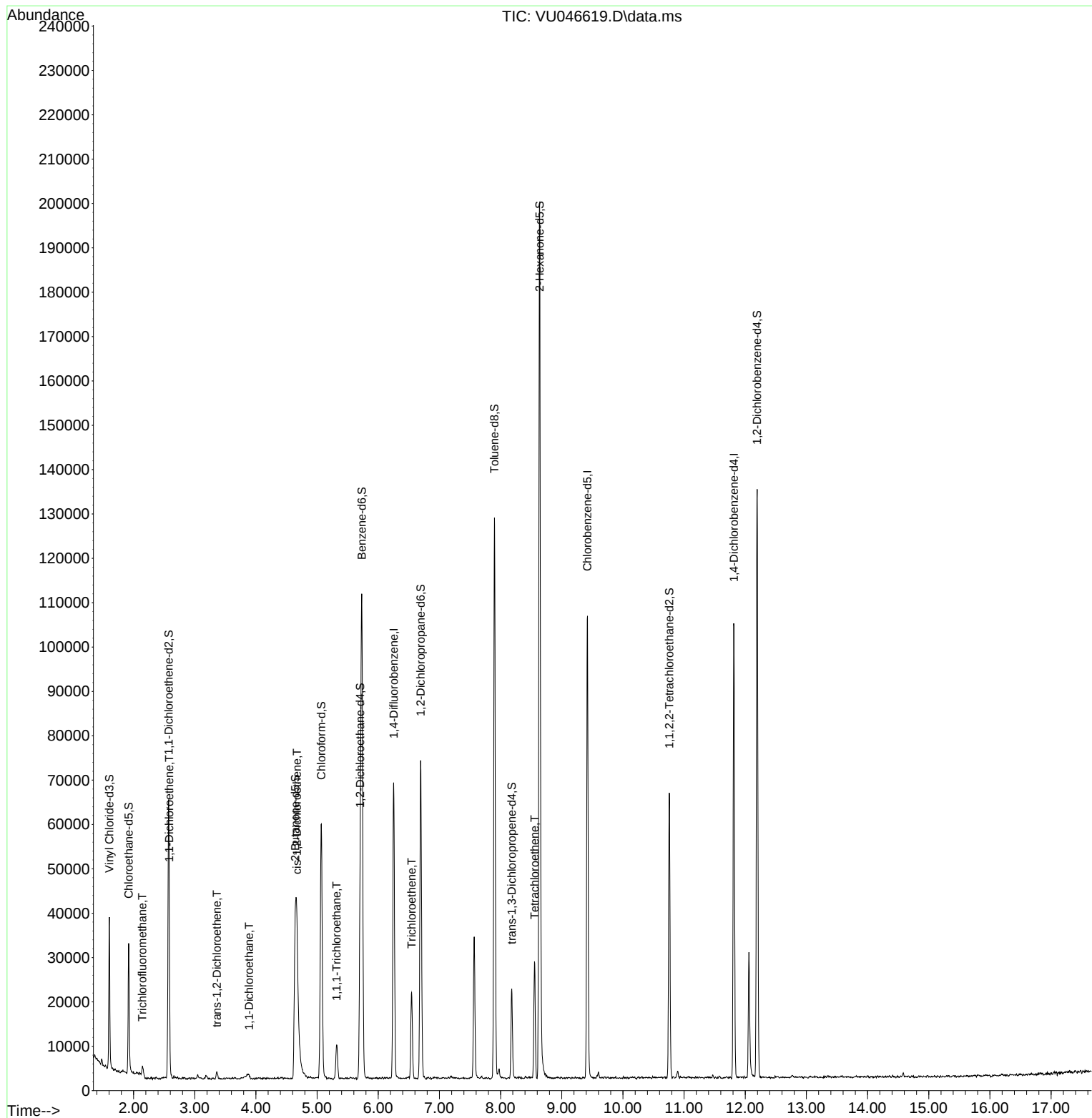
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 54109    | 5.000    | ug/L        | 0.00     |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 57492    | 5.000    | ug/L        | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816 | 152   | 27219    | 5.000    | ug/L        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 1.604  | 65    | 23798    | 5.584    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | = 111.600%  |          |
| 7) Chloroethane-d5            | 1.919  | 69    | 22100    | 6.585    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | = 131.800%# |          |
| 11) 1,1-Dichloroethene-d2     | 2.575  | 65    | 12030    | 6.694    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | = 133.800%# |          |
| 20) 2-Butanone-d5             | 4.645  | 46    | 88521    | 71.604   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | = 143.200%# |          |
| 24) Chloroform-d              | 5.070  | 84    | 55138    | 7.060    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | = 141.200%# |          |
| 26) 1,2-Dichloroethane-d4     | 5.703  | 65    | 31420    | 7.038    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | = 140.800%# |          |
| 32) Benzene-d6                | 5.732  | 84    | 103958   | 6.487    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | = 129.800%# |          |
| 36) 1,2-Dichloropropane-d6    | 6.694  | 67    | 32914    | 6.835    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | = 136.600%  |          |
| 41) Toluene-d8                | 7.899  | 98    | 82587    | 5.678    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | = 113.600%  |          |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 12460    | 5.594    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | = 111.800%  |          |
| 46) 2-Hexanone-d5             | 8.639  | 63    | 75825    | 57.984   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | = 115.960%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 31545    | 6.382    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | = 127.600%# |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 34245    | 6.830    | ug/L        | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | = 136.600%# |          |
| Target Compounds              |        |       |          |          |             | Qvalue   |
| 9) Trichlorofluoromethane     | 2.144  | 101   | 1409     | 0.153    | ug/L        | 93       |
| 12) 1,1-Dichloroethene        | 2.584  | 96    | 761      | 0.160    | ug/L #      | 1        |
| 18) trans-1,2-Dichloroethene  | 3.362  | 96    | 760      | 0.150    | ug/L        | 81       |
| 19) 1,1-Dichloroethane        | 3.887  | 63    | 1277     | 0.137    | ug/L #      | 89       |
| 22) cis-1,2-Dichloroethene    | 4.671  | 96    | 5518     | 0.994    | ug/L        | 96       |
| 29) 1,1,1-Trichloroethane     | 5.317  | 97    | 5921     | 0.623    | ug/L        | 93       |
| 34) Trichloroethene           | 6.546  | 95    | 6929     | 1.151    | ug/L        | 98       |
| 47) Tetrachloroethene         | 8.558  | 164   | 5941     | 1.394    | ug/L        | 93       |
| -----                         |        |       |          |          |             |          |

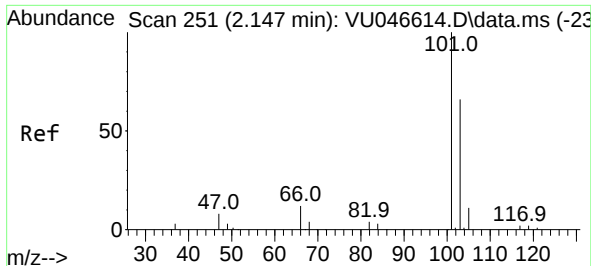
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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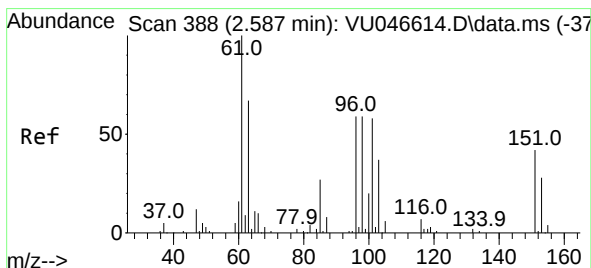
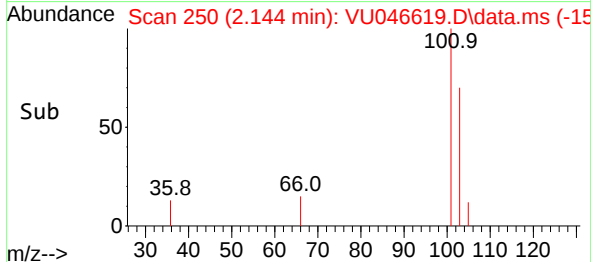
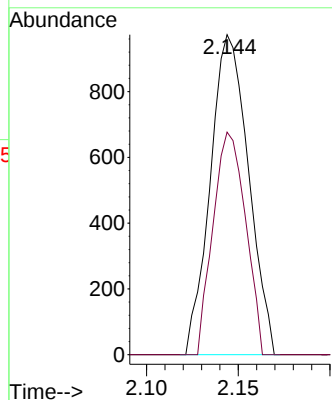
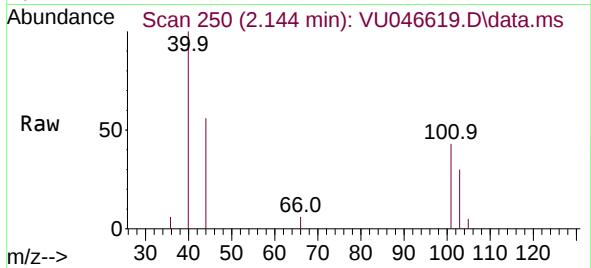




#9  
 Trichlorofluoromethane  
 Concen: 0.153 ug/L  
 RT: 2.144 min Scan# 214  
 Delta R.T. -0.003 min  
 Lab File: VU046619.D  
 Acq: 28 Dec 2021 18:00

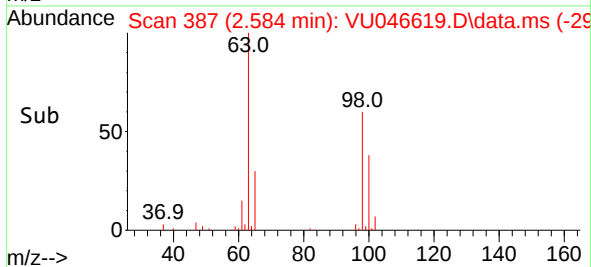
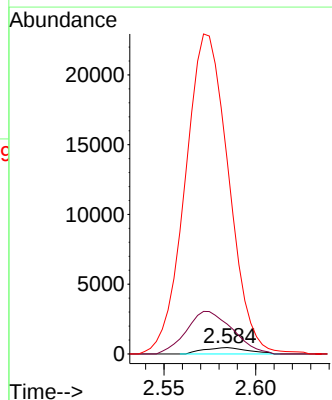
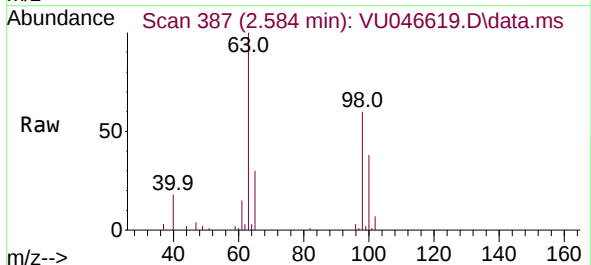
Instrument :  
 MSVOA\_U  
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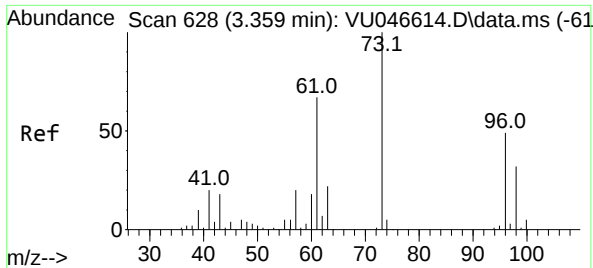
Tgt Ion:101 Resp: 1409  
 Ion Ratio Lower Upper  
 101 100  
 103 59.0 51.5 77.3



#12  
 1,1-Dichloroethene  
 Concen: 0.160 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. -0.003 min  
 Lab File: VU046619.D  
 Acq: 28 Dec 2021 18:00

Tgt Ion: 96 Resp: 761  
 Ion Ratio Lower Upper  
 96 100  
 61 471.8 124.7 231.5#  
 63 3070.5 105.2 195.4#

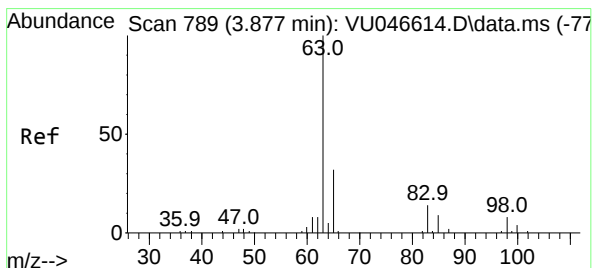
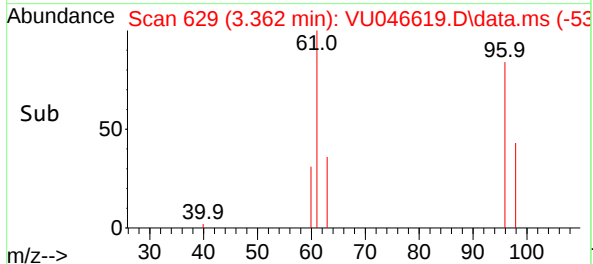
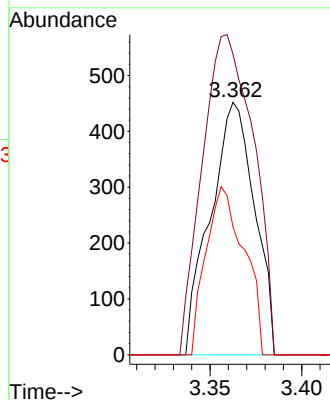
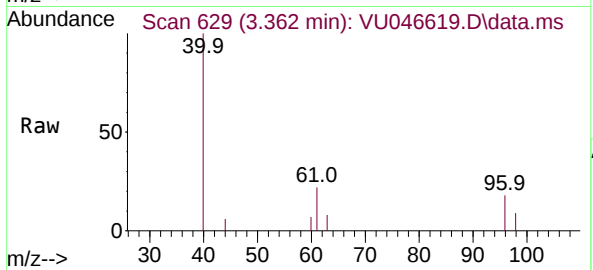




#18  
trans-1,2-Dichloroethene  
Concen: 0.150 ug/L  
RT: 3.362 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU046619.D  
Acq: 28 Dec 2021 18:00

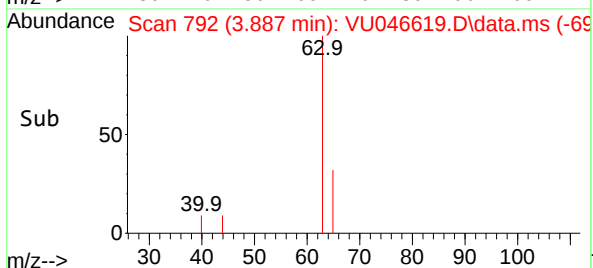
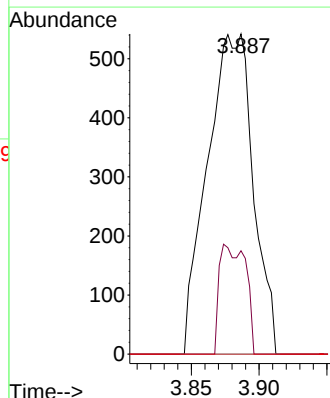
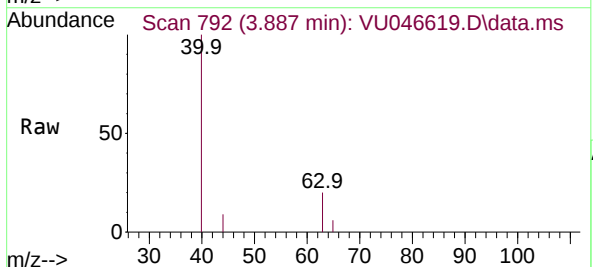
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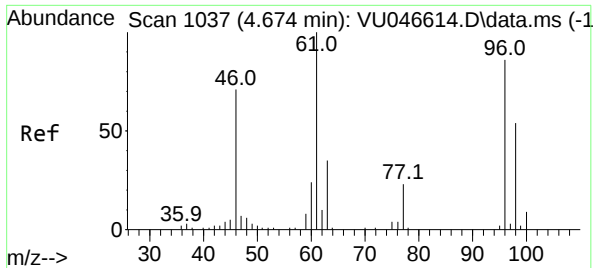
Tgt Ion: 96 Resp: 760  
Ion Ratio Lower Upper  
96 100  
61 119.0 100.8 187.2  
98 50.7 45.1 83.7



#19  
1,1-Dichloroethane  
Concen: 0.137 ug/L  
RT: 3.887 min Scan# 792  
Delta R.T. 0.010 min  
Lab File: VU046619.D  
Acq: 28 Dec 2021 18:00

Tgt Ion: 63 Resp: 1277  
Ion Ratio Lower Upper  
63 100  
65 32.3 22.3 41.5  
83 0.0 9.6 17.8#





#22

cis-1,2-Dichloroethene

Concen: 0.994 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.003 min

Lab File: VU046619.D

Acq: 28 Dec 2021 18:00

Instrument :

MSVOA\_U

ClientSampleId :

C0J04

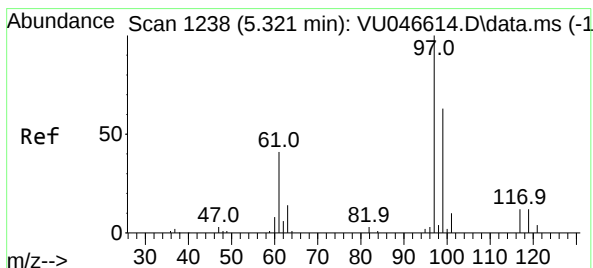
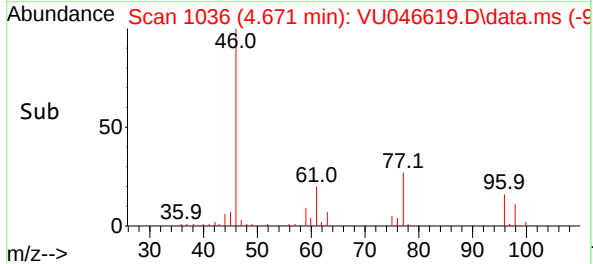
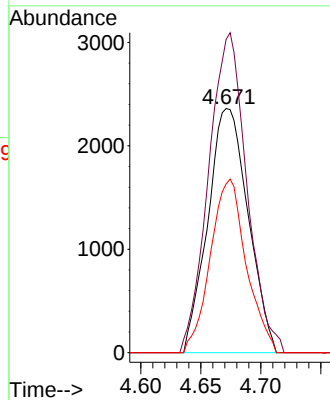
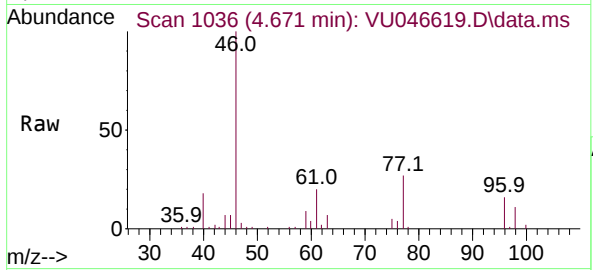
Tgt Ion: 96 Resp: 5518

Ion Ratio Lower Upper

96 100

61 128.3 88.5 164.3

98 69.1 44.4 82.5



#29

1,1,1-Trichloroethane

Concen: 0.623 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.003 min

Lab File: VU046619.D

Acq: 28 Dec 2021 18:00

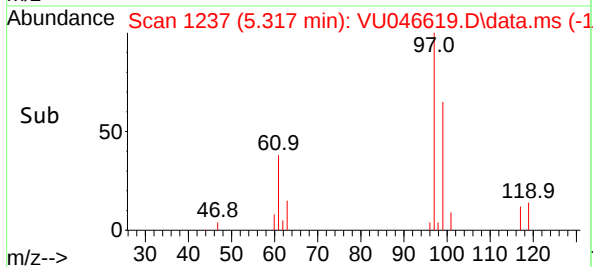
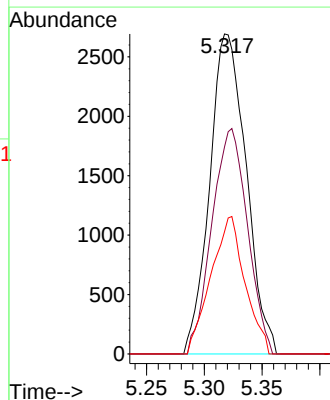
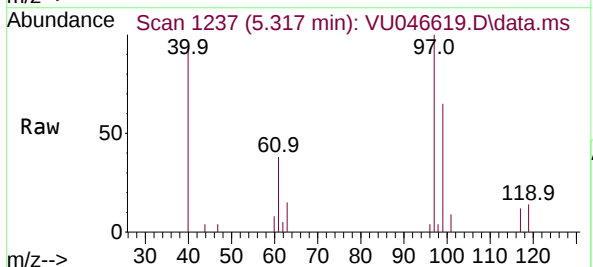
Tgt Ion: 97 Resp: 5921

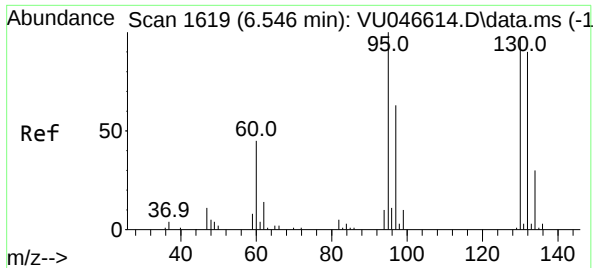
Ion Ratio Lower Upper

97 100

99 68.6 51.3 76.9

61 40.2 36.1 54.1



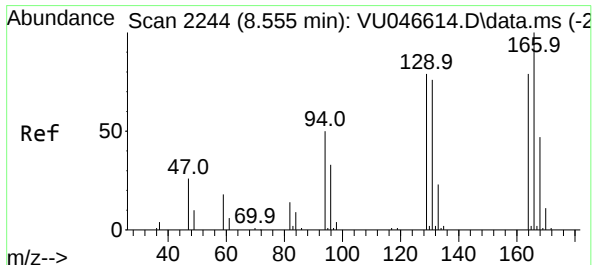
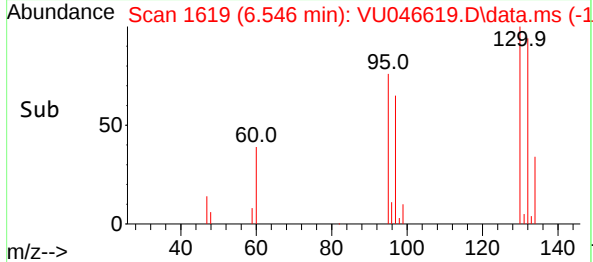
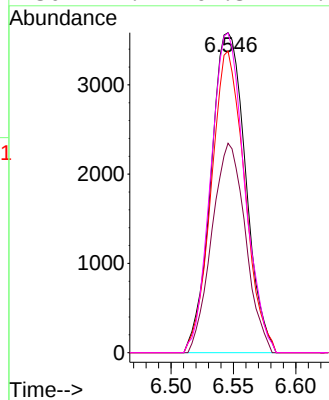
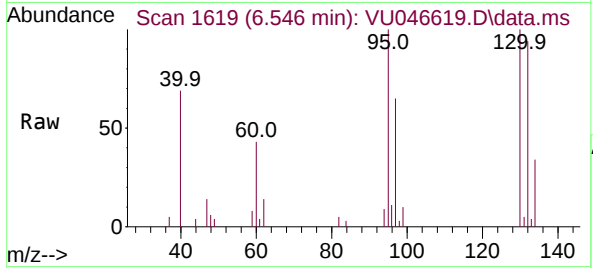


#34  
Trichloroethene  
Concen: 1.151 ug/L  
RT: 6.546 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU046619.D  
Acq: 28 Dec 2021 18:00

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Tgt Ion: 95 Resp: 6929

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.4  | 46.5  | 86.5  |
| 132 | 94.3  | 65.1  | 120.9 |
| 130 | 99.9  | 67.3  | 124.9 |



#47  
Tetrachloroethene  
Concen: 1.394 ug/L  
RT: 8.558 min Scan# 2245  
Delta R.T. 0.003 min  
Lab File: VU046619.D  
Acq: 28 Dec 2021 18:00

Tgt Ion: 164 Resp: 5941

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 91.9  | 71.8  | 133.4 |
| 131 | 89.9  | 68.5  | 127.3 |
| 166 | 129.0 | 94.1  | 174.8 |

