

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120922\  
 Data File : VU052311.D  
 Acq On : 09 Dec 2022 19:00  
 Operator : JC/MD  
 Sample : N5949-05  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZA9

Quant Time: Dec 09 23:13:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111822WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 08 04:19:43 2022  
 Response via : Initial Calibration

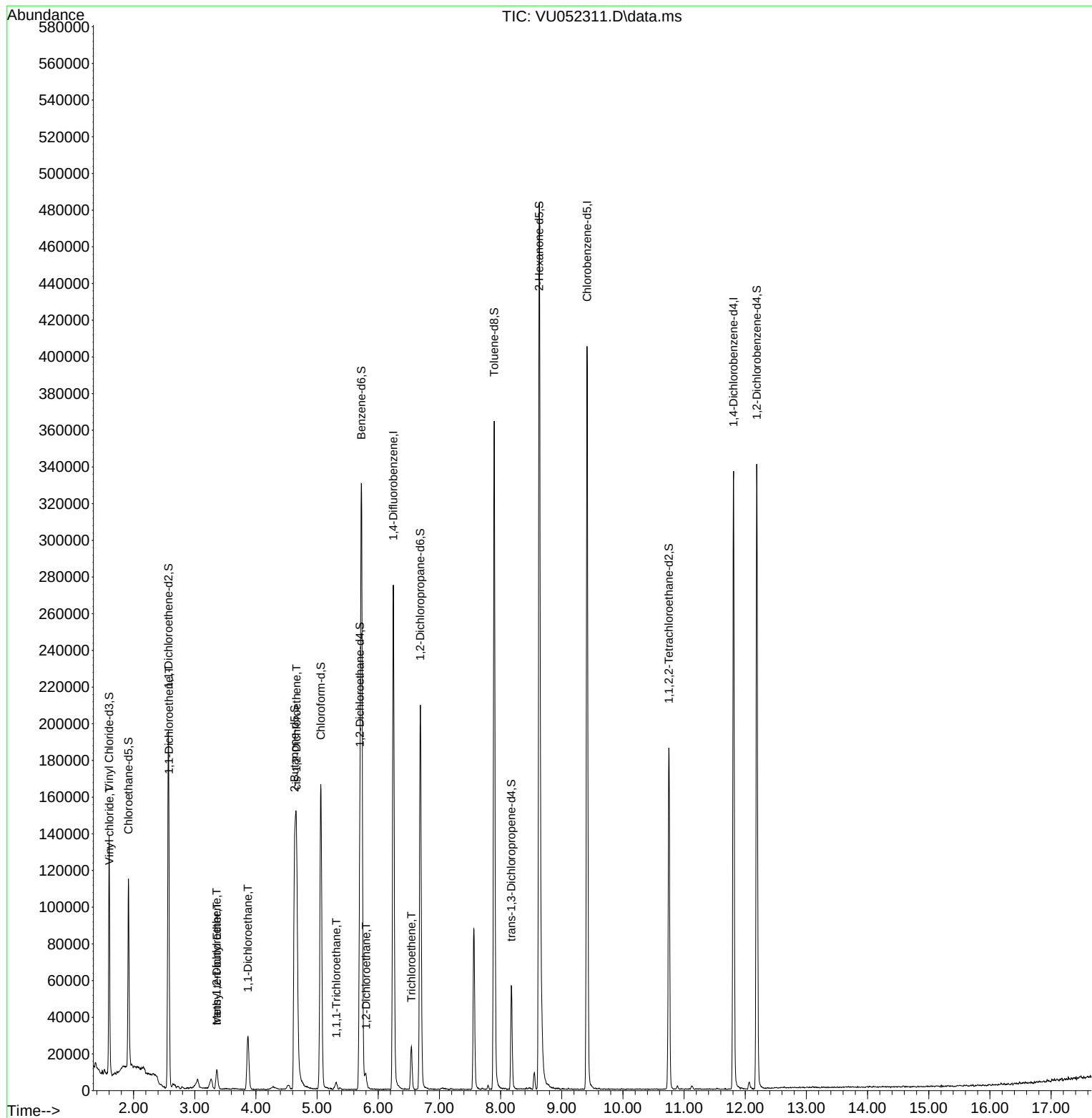
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247  | 114   | 228536   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 230113   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 95124    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 94239    | 4.239    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 84.800%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 80663    | 4.672    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 93.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 65    | 35985    | 4.516    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 90.400%  |
| 20) 2-Butanone-d5             | 4.633  | 46    | 236215   | 58.622   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 117.240% |
| 24) Chloroform-d              | 5.060  | 84    | 158614   | 4.856    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 97.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.700  | 65    | 85024    | 5.154    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 103.000% |
| 32) Benzene-d6                | 5.726  | 84    | 327460   | 4.793    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 106819   | 5.052    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 101.000% |
| 41) Toluene-d8                | 7.896  | 98    | 252484   | 4.085    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.600%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 33357    | 4.330    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 86.600%  |
| 46) 2-Hexanone-d5             | 8.632  | 63    | 162377   | 49.732   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 99.460%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 97293    | 5.308    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 106.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.188 | 152   | 93981    | 5.160    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 103.200% |
| Target Compounds              |        |       |          |          |        |          |
| 5) Vinyl chloride             | 1.607  | 62    | 3614     | 0.145    | ug/L # | 52       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 3290     | 0.198    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 3.362  | 73    | 7989     | 0.215    | ug/L   | 96       |
| 18) trans-1,2-Dichloroethene  | 3.359  | 96    | 1731     | 0.097    | ug/L   | 85       |
| 19) 1,1-Dichloroethane        | 3.870  | 63    | 35617    | 1.112    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.665  | 96    | 45757    | 2.453    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.800  | 62    | 5103     | 0.257    | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.314  | 97    | 2867     | 0.112    | ug/L   | 97       |
| 34) Trichloroethene           | 6.542  | 95    | 8265     | 0.442    | ug/L   | 96       |

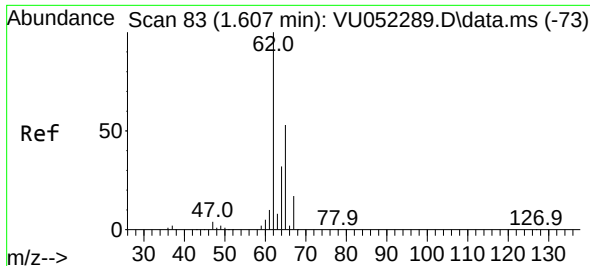
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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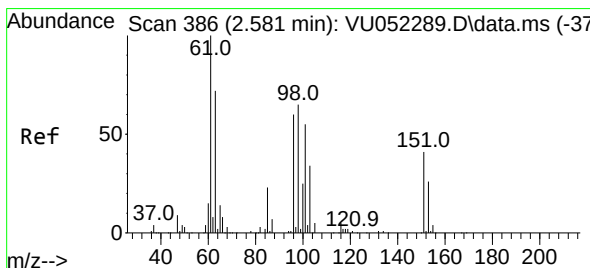
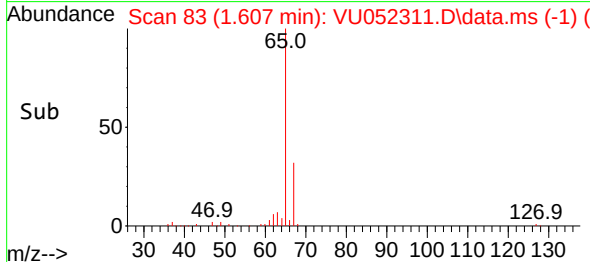
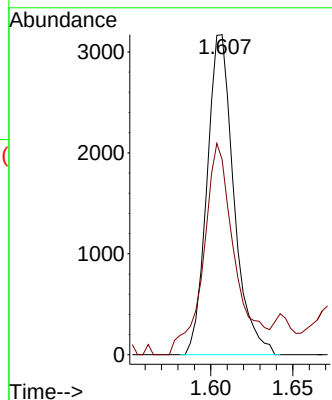
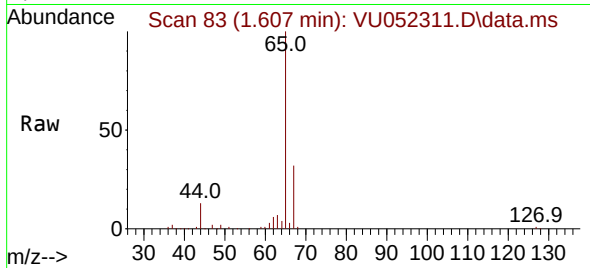




#5  
 Vinyl chloride  
 Concen: 0.145 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. 0.003 min  
 Lab File: VU052311.D  
 Acq: 09 Dec 2022 19:00

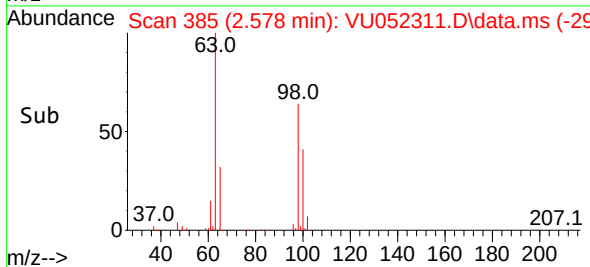
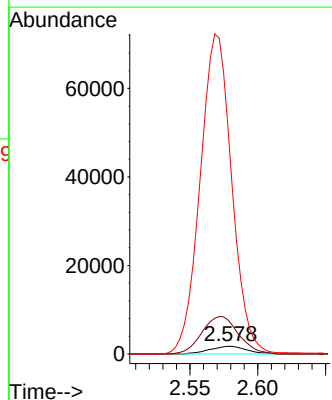
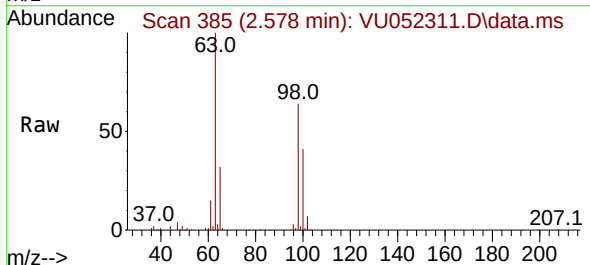
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZA9

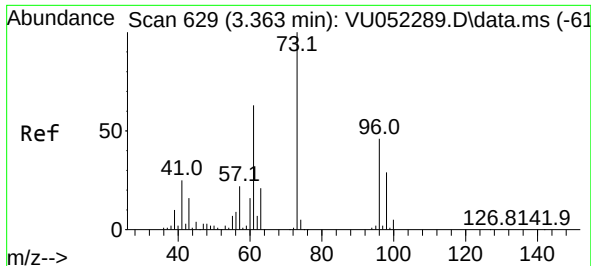
Tgt Ion: 62 Resp: 3614  
 Ion Ratio Lower Upper  
 62 100  
 64 61.0 23.5 43.7#



#12  
 1,1-Dichloroethene  
 Concen: 0.198 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. -0.003 min  
 Lab File: VU052311.D  
 Acq: 09 Dec 2022 19:00

Tgt Ion: 96 Resp: 3290  
 Ion Ratio Lower Upper  
 96 100  
 61 446.5 114.8 213.2#  
 63 2976.9 93.7 174.1#





#17

Methyl tert-butyl Ether

Concen: 0.215 ug/L

RT: 3.362 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU052311.D

Acq: 09 Dec 2022 19:00

Instrument :

MSVOA\_U

ClientSampleId :

EXZA9

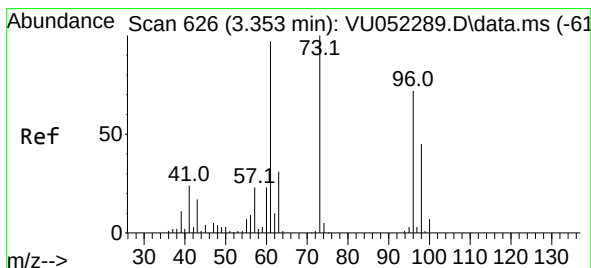
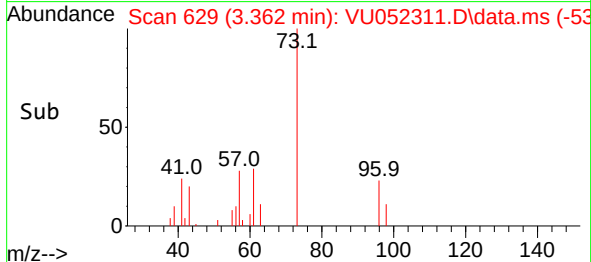
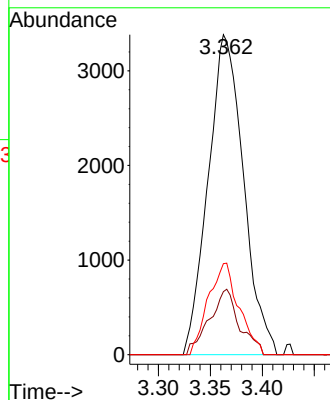
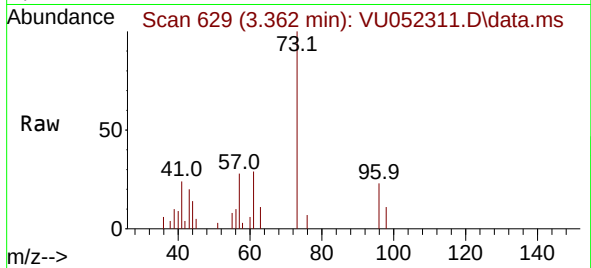
Tgt Ion: 73 Resp: 7989

Ion Ratio Lower Upper

73 100

43 17.5 13.2 19.8

57 24.9 17.8 26.8



#18

trans-1,2-Dichloroethene

Concen: 0.097 ug/L

RT: 3.359 min Scan# 628

Delta R.T. 0.006 min

Lab File: VU052311.D

Acq: 09 Dec 2022 19:00

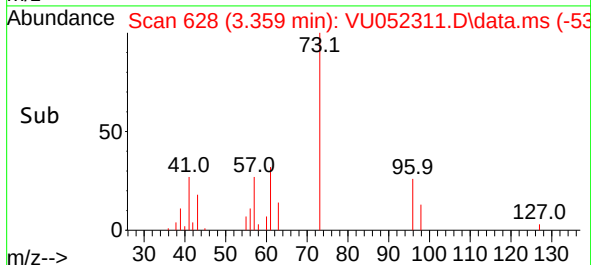
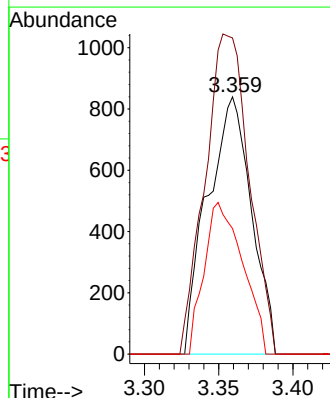
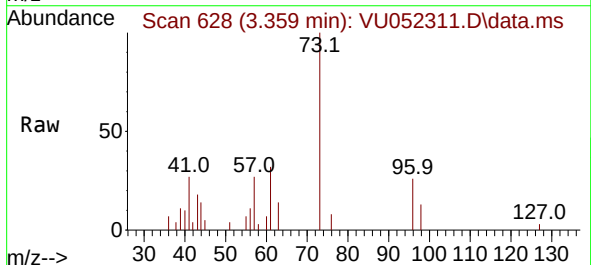
Tgt Ion: 96 Resp: 1731

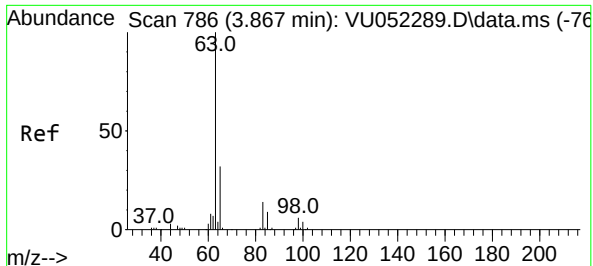
Ion Ratio Lower Upper

96 100

61 122.9 97.9 181.7

98 48.8 43.8 81.3

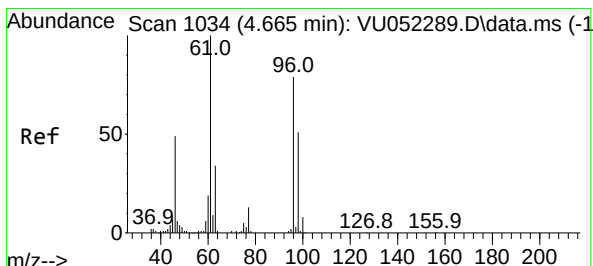
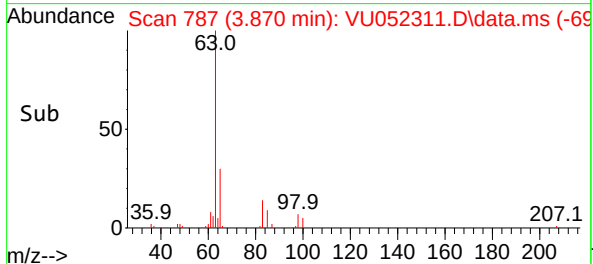
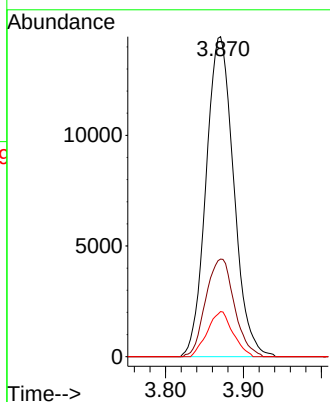
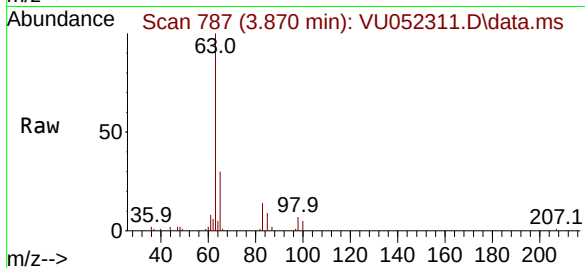




#19  
1,1-Dichloroethane  
Concen: 1.112 ug/L  
RT: 3.870 min Scan# 786  
Delta R.T. 0.003 min  
Lab File: VU052311.D  
Acq: 09 Dec 2022 19:00

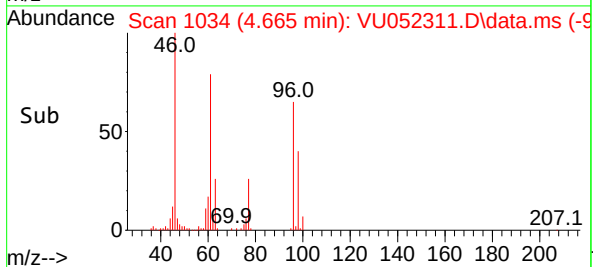
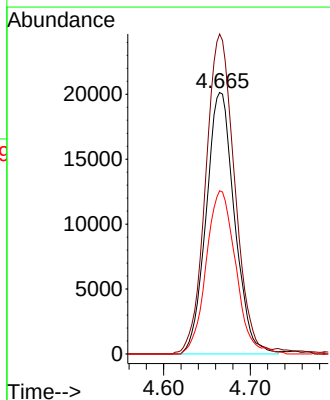
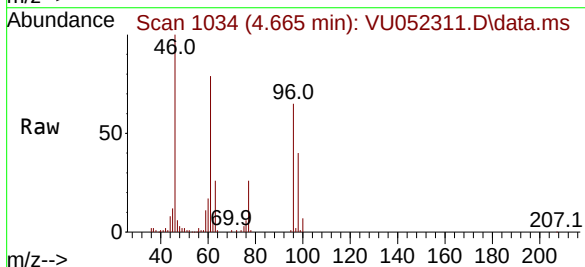
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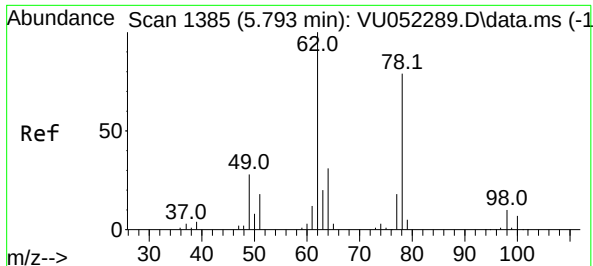
Tgt Ion: 63 Resp: 35617  
Ion Ratio Lower Upper  
63 100  
65 30.5 22.2 41.2  
83 14.1 9.2 17.0



#22  
cis-1,2-Dichloroethene  
Concen: 2.453 ug/L  
RT: 4.665 min Scan# 1034  
Delta R.T. -0.000 min  
Lab File: VU052311.D  
Acq: 09 Dec 2022 19:00

Tgt Ion: 96 Resp: 45757  
Ion Ratio Lower Upper  
96 100  
61 122.4 85.1 158.1  
98 62.4 42.8 79.6

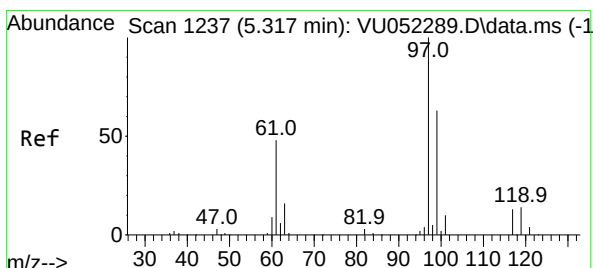
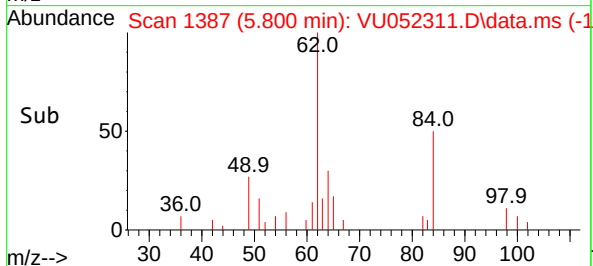
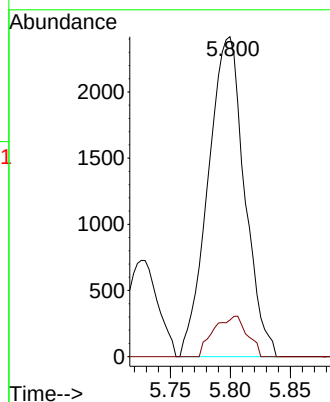
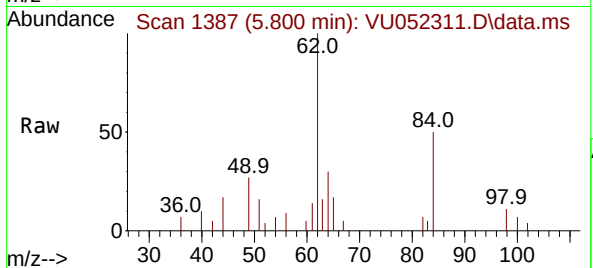




#27  
1,2-Dichloroethane  
Concen: 0.257 ug/L  
RT: 5.800 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VU052311.D  
Acq: 09 Dec 2022 19:00

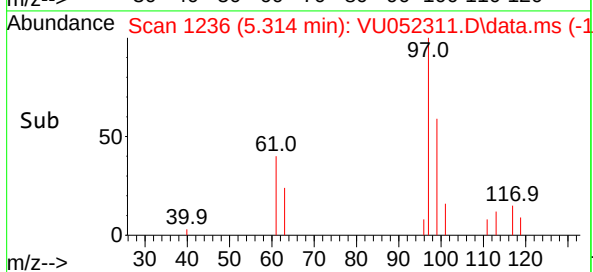
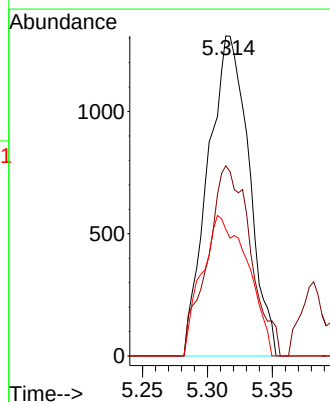
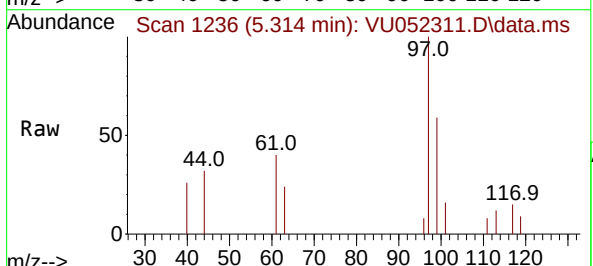
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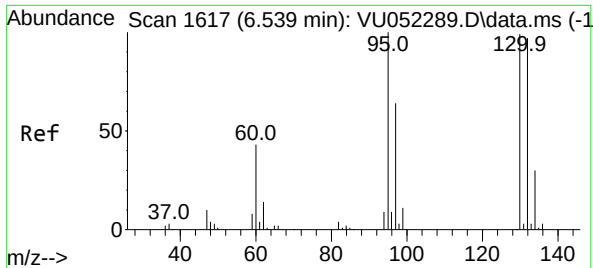
Tgt Ion: 62 Resp: 5103  
Ion Ratio Lower Upper  
62 100  
98 11.4 8.4 12.6



#29  
1,1,1-Trichloroethane  
Concen: 0.112 ug/L  
RT: 5.314 min Scan# 1236  
Delta R.T. -0.000 min  
Lab File: VU052311.D  
Acq: 09 Dec 2022 19:00

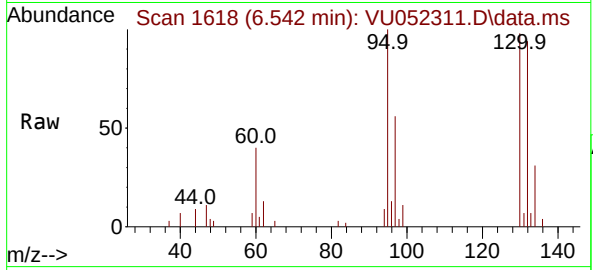
Tgt Ion: 97 Resp: 2867  
Ion Ratio Lower Upper  
97 100  
99 62.2 51.0 76.6  
61 49.1 36.9 55.3





#34  
 Trichloroethene  
 Concen: 0.442 ug/L  
 RT: 6.542 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VU052311.D  
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Tgt Ion: 95 Resp: 8265

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 56.3  | 43.7  | 81.1  |
| 132 | 94.4  | 64.3  | 119.3 |
| 130 | 97.5  | 67.3  | 124.9 |

