

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041823\  
 Data File : VU053765.D  
 Acq On : 18 Apr 2023 17:27  
 Operator : JC/MD  
 Sample : 02340-19  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE20

Quant Time: Apr 19 05:02:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR032423WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Apr 19 04:58:28 2023  
 Response via : Initial Calibration

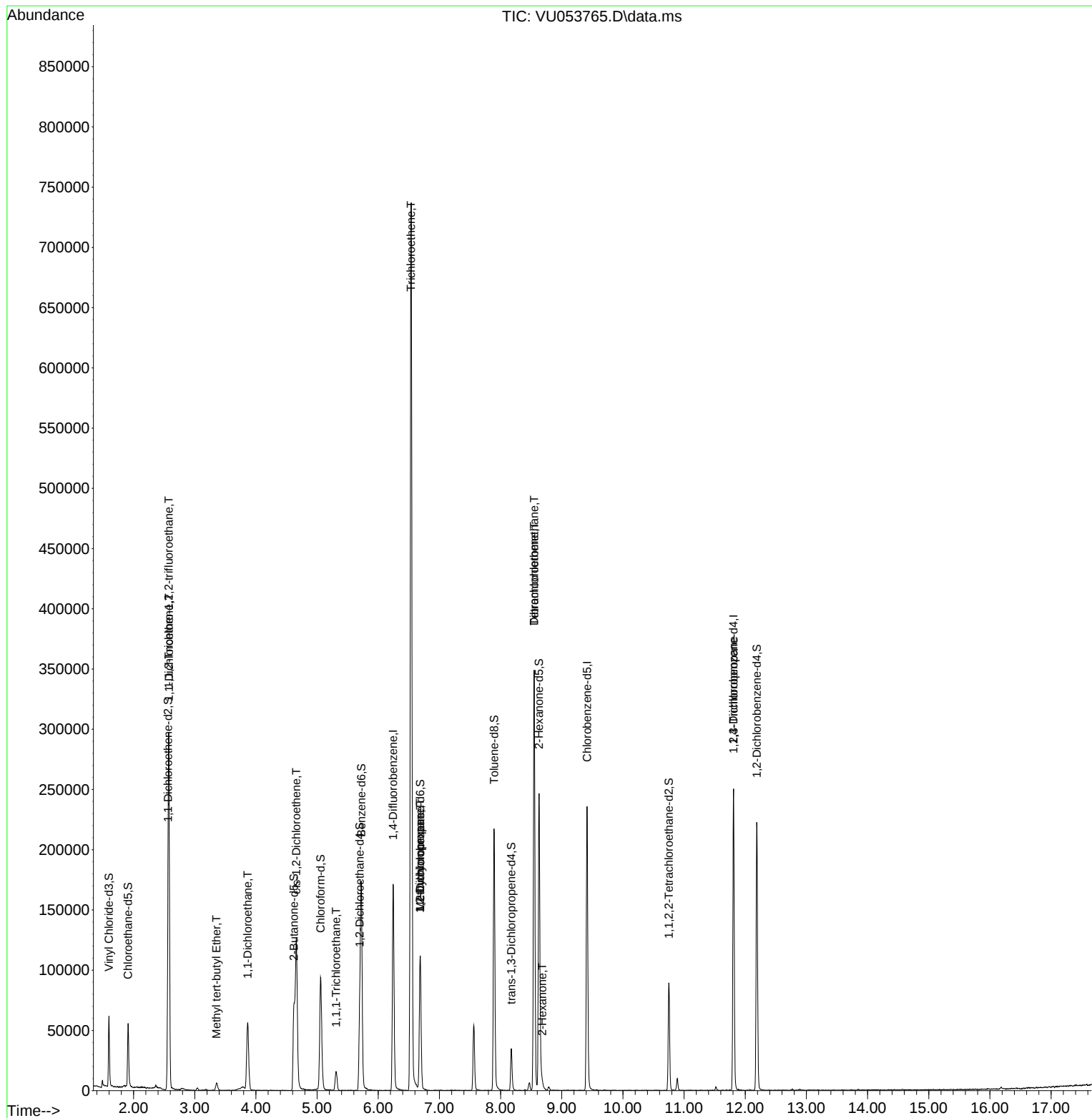
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243  | 114   | 145896   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 139567   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 68501    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 44280    | 4.412    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 88.200%  |
| 7) Chloroethane-d5            | 1.909  | 69    | 40450    | 4.441    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 88.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.562  | 65    | 17372    | 4.063    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.200%  |
| 20) 2-Butanone-d5             | 4.620  | 46    | 102541   | 44.597   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 89.200%  |
| 24) Chloroform-d              | 5.057  | 84    | 87740    | 4.716    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 44298    | 4.646    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 93.000%  |
| 32) Benzene-d6                | 5.723  | 84    | 172281   | 4.356    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.687  | 67    | 56910    | 4.722    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.400%  |
| 41) Toluene-d8                | 7.893  | 98    | 156954   | 4.206    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.200%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 20450    | 4.422    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.400%  |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 89933    | 47.872   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 95.740%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 45351    | 4.521    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 61420    | 4.984    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 99.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575  | 101   | 1797     | 0.198    | ug/L # | 63       |
| 12) 1,1-Dichloroethene        | 2.578  | 96    | 88240    | 10.682   | ug/L # | 74       |
| 17) Methyl tert-butyl Ether   | 3.356  | 73    | 6180     | 0.309    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.864  | 63    | 65549    | 4.147    | ug/L # | 96       |
| 22) cis-1,2-Dichloroethene    | 4.662  | 96    | 64090    | 5.544    | ug/L   | 94       |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97    | 12364    | 0.897    | ug/L   | 97       |
| 34) Trichloroethene           | 6.536  | 95    | 259654   | 26.074   | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.687  | 83    | 13012    | 0.761    | ug/L # | 22       |
| 37) 1,2-Dichloropropane       | 6.684  | 63    | 5908     | 0.598    | ug/L # | 89       |
| 47) Tetrachloroethene         | 8.549  | 164   | 78688    | 10.754   | ug/L   | 93       |
| 48) 2-Hexanone                | 8.684  | 43    | 2574     | 0.720    | ug/L # | 37       |
| 49) Dibromochloromethane      | 8.549  | 129   | 75092    | 10.831   | ug/L # | 12       |
| 61) 1,2,3-Trichloropropane    | 11.806 | 75    | 8088     | 1.425    | ug/L # | 66       |

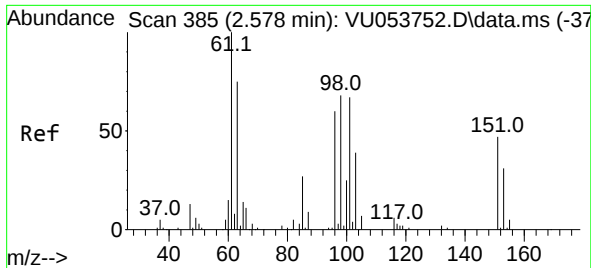
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041823\  
Data File : VU053765.D  
Acq On : 18 Apr 2023 17:27  
Operator : JC/MD  
Sample : 02340-19  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE20

Quant Time: Apr 19 05:02:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR032423WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Apr 19 04:58:28 2023  
Response via : Initial Calibration

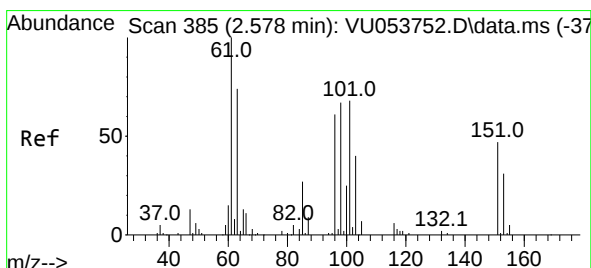
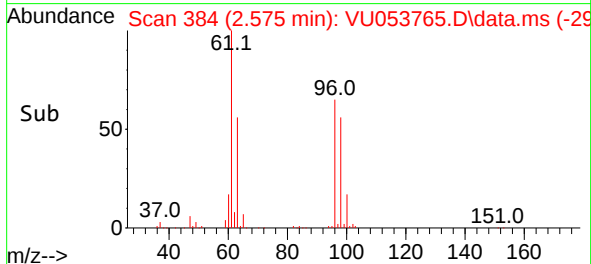
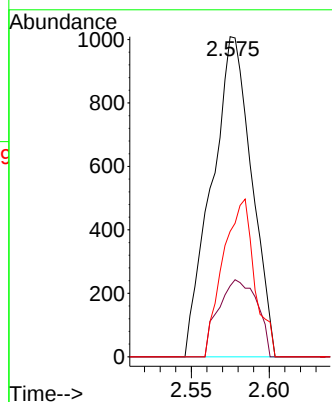
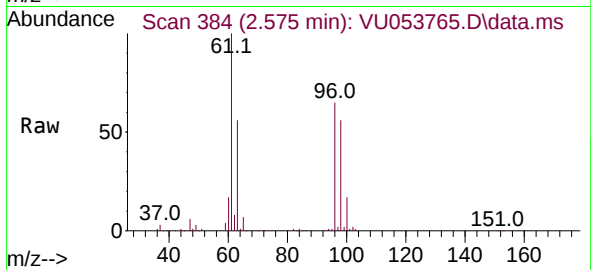




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.198 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. -0.003 min  
 Lab File: VU053765.D  
 Acq: 18 Apr 2023 17:27

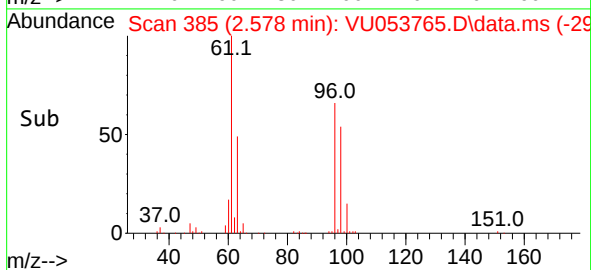
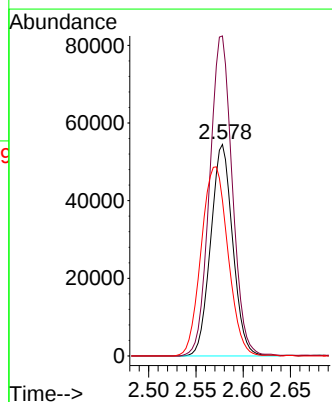
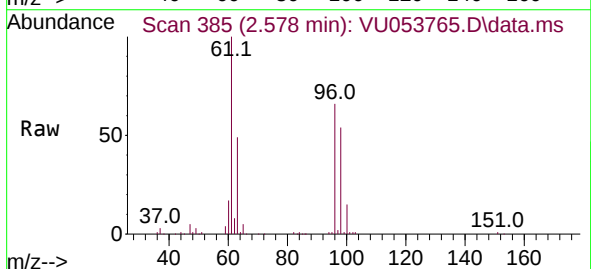
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE20

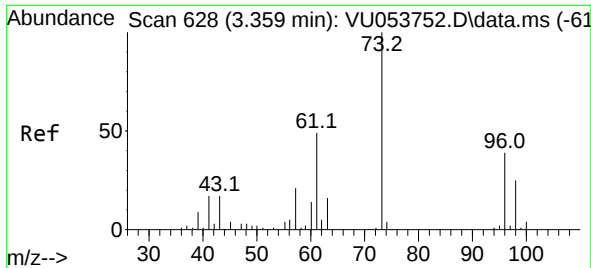
Tgt Ion:101 Resp: 1797  
 Ion Ratio Lower Upper  
 101 100  
 85 23.3 37.0 55.4#  
 151 39.0 56.8 85.2#



#12  
 1,1-Dichloroethene  
 Concen: 10.682 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU053765.D  
 Acq: 18 Apr 2023 17:27

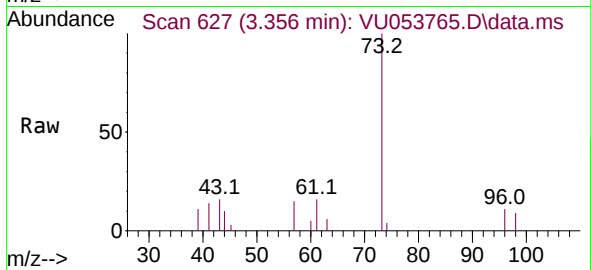
Tgt Ion: 96 Resp: 88240  
 Ion Ratio Lower Upper  
 96 100  
 61 151.3 116.8 216.8  
 63 73.6 88.6 164.6#



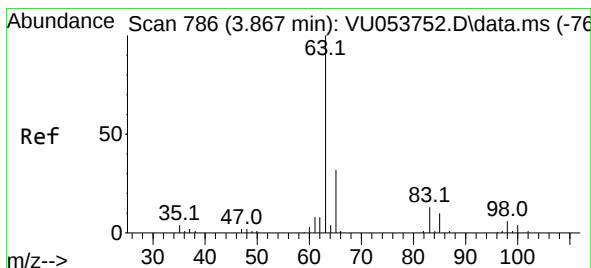
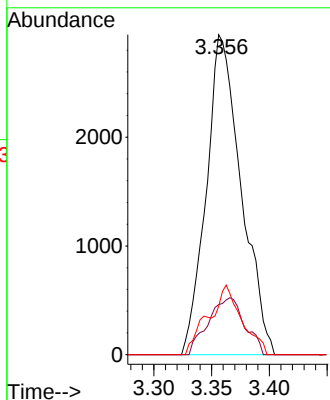
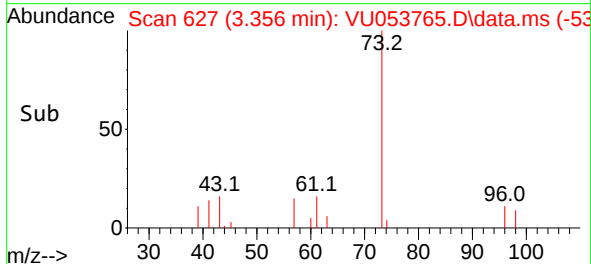


#17  
Methyl tert-butyl Ether  
Concen: 0.309 ug/L  
RT: 3.356 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

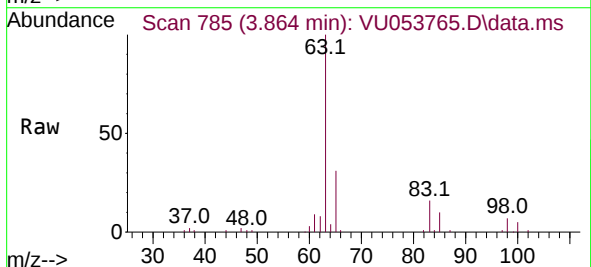
Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE20



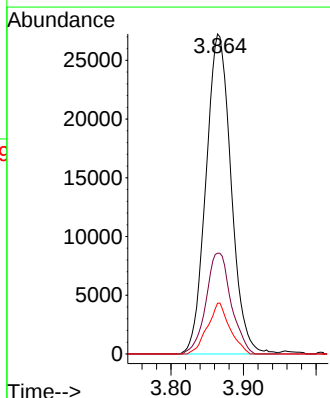
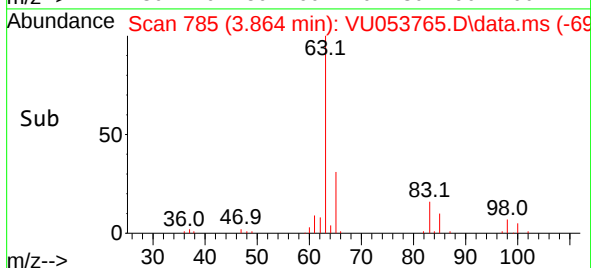
Tgt Ion: 73 Resp: 6180  
Ion Ratio Lower Upper  
73 100  
43 18.6 13.9 20.9  
57 20.8 17.0 25.6

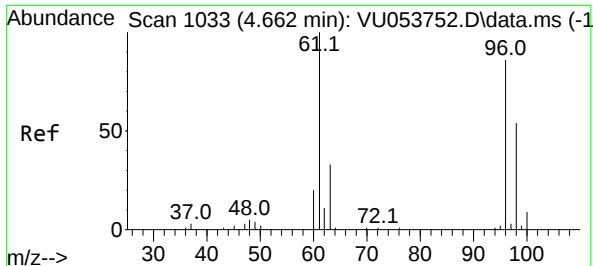


#19  
1,1-Dichloroethane  
Concen: 4.147 ug/L  
RT: 3.864 min Scan# 785  
Delta R.T. -0.003 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27



Tgt Ion: 63 Resp: 65549  
Ion Ratio Lower Upper  
63 100  
65 31.5 21.7 40.3  
83 15.9 8.1 15.1#





#22

cis-1,2-Dichloroethene

Concen: 5.544 ug/L

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU053765.D

Acq: 18 Apr 2023 17:27

Instrument :

MSVOA\_U

ClientSampleId :

BHE20

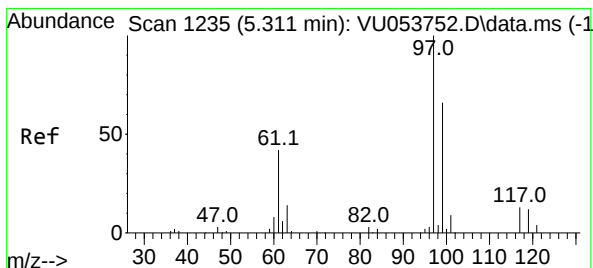
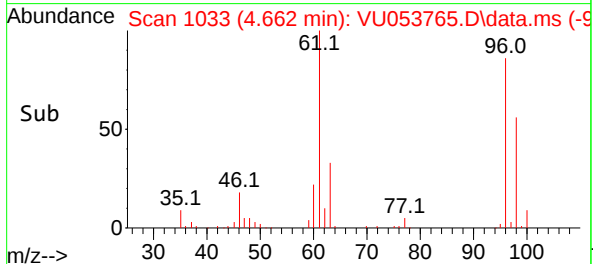
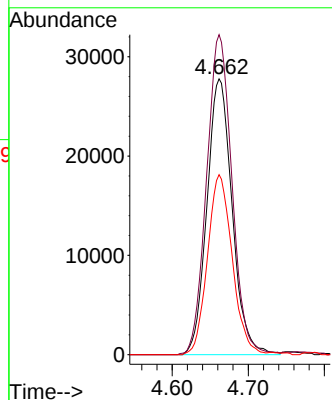
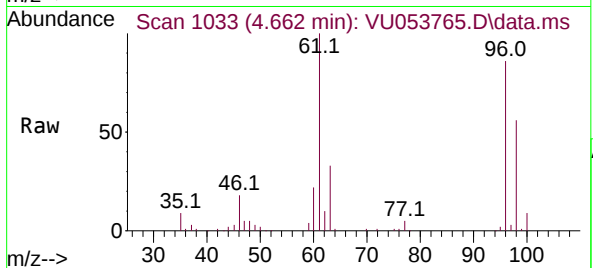
Tgt Ion: 96 Resp: 64090

Ion Ratio Lower Upper

96 100

61 116.0 86.6 160.8

98 65.3 47.7 88.5



#29

1,1,1-Trichloroethane

Concen: 0.897 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. 0.000 min

Lab File: VU053765.D

Acq: 18 Apr 2023 17:27

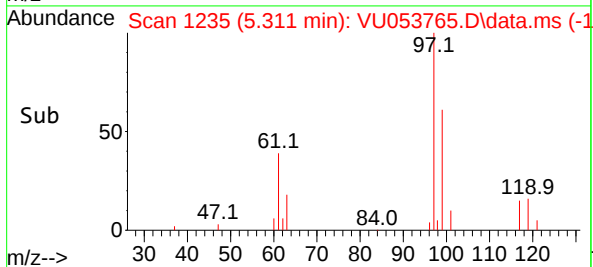
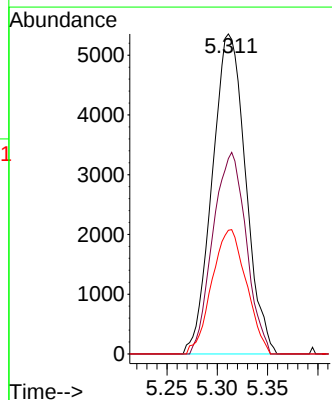
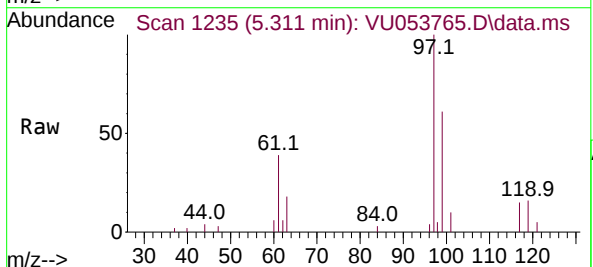
Tgt Ion: 97 Resp: 12364

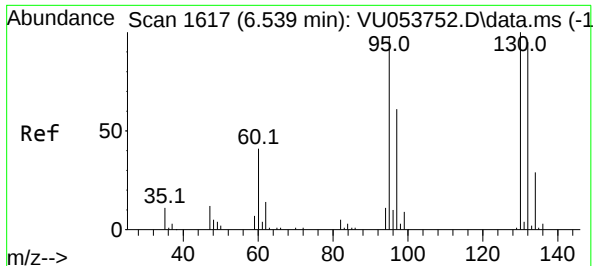
Ion Ratio Lower Upper

97 100

99 62.7 49.9 74.9

61 40.1 35.7 53.5

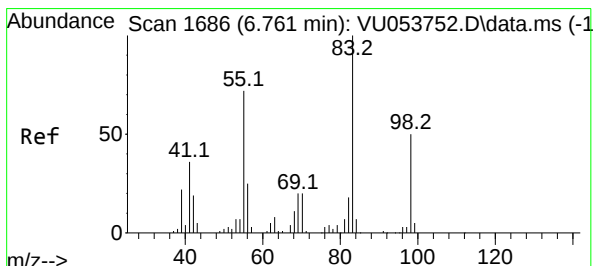
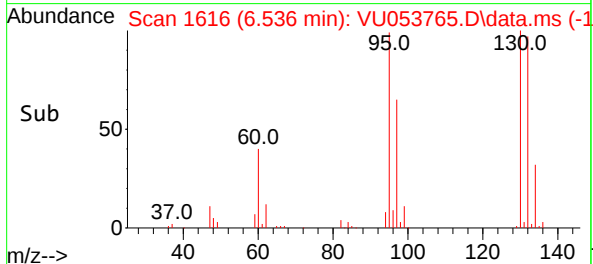
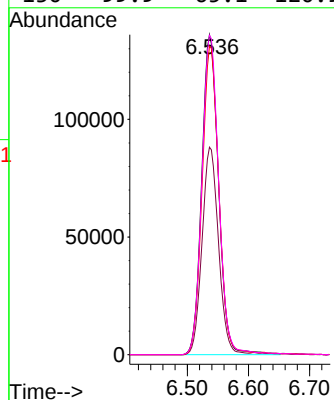
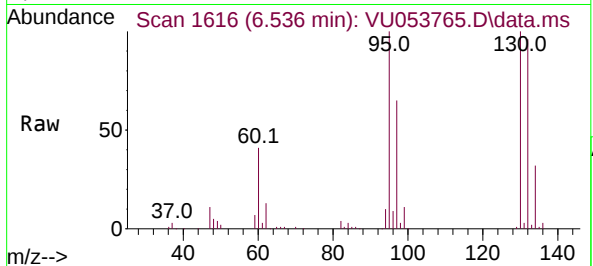




#34  
Trichloroethene  
Concen: 26.074 ug/L  
RT: 6.536 min Scan# 1616  
Delta R.T. -0.003 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

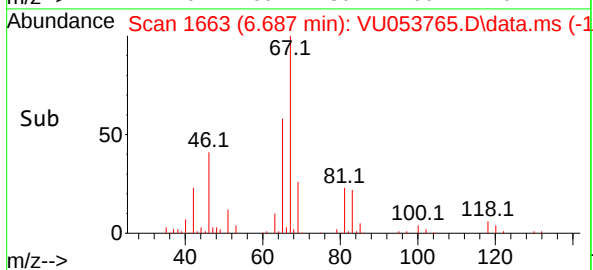
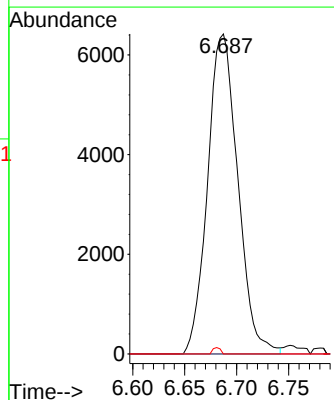
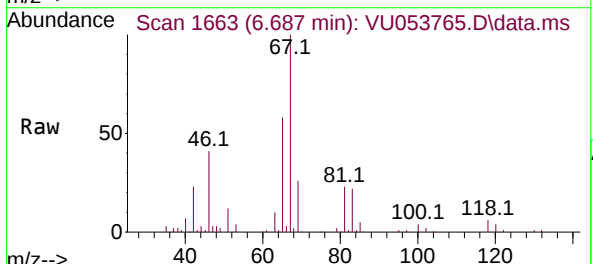
Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE20

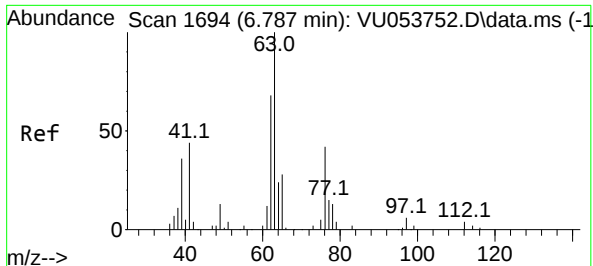
Tgt Ion: 95 Resp: 259654  
Ion Ratio Lower Upper  
95 100  
97 64.8 45.3 84.1  
132 96.4 62.8 116.6  
130 99.9 65.1 120.9



#35  
Methylcyclohexane  
Concen: 0.761 ug/L  
RT: 6.687 min Scan# 1663  
Delta R.T. -0.074 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

Tgt Ion: 83 Resp: 13012  
Ion Ratio Lower Upper  
83 100  
55 0.0 54.9 82.3#  
98 0.0 34.9 52.3#

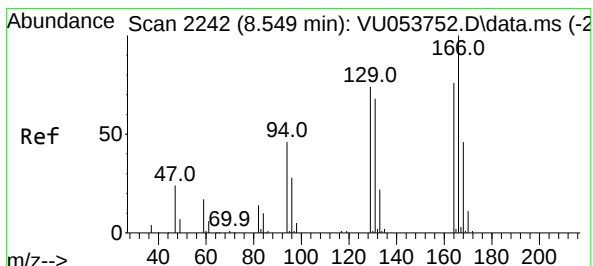
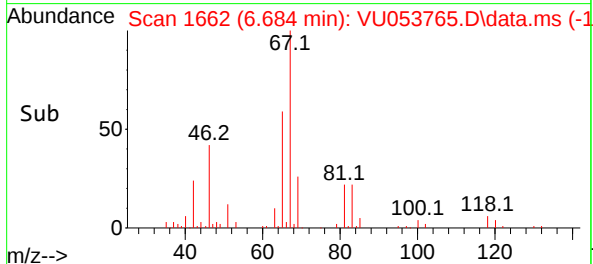
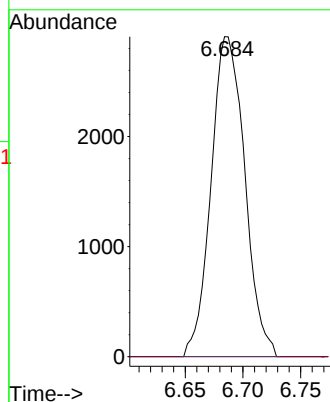
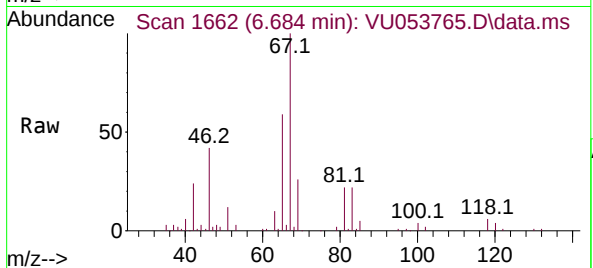




#37  
1,2-Dichloropropane  
Concen: 0.598 ug/L  
RT: 6.684 min Scan# 1  
Delta R.T. -0.103 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

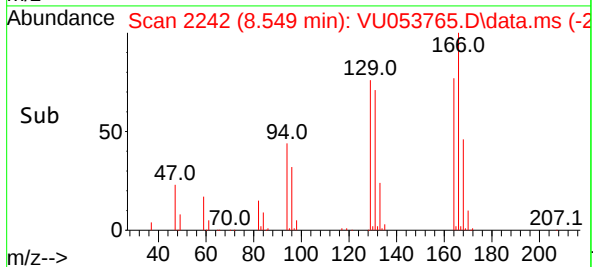
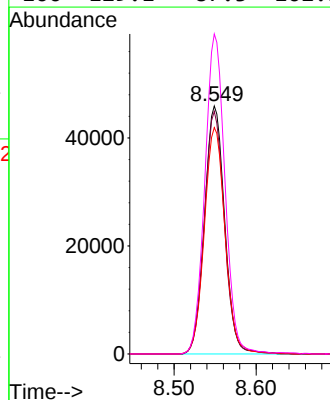
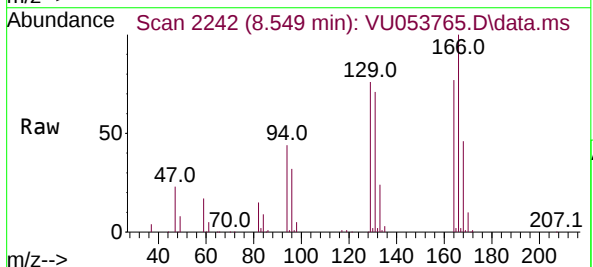
Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE20

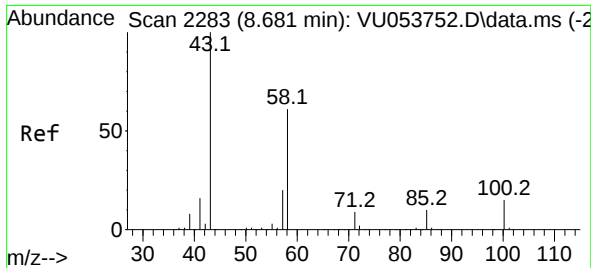
Tgt Ion: 63 Resp: 5908  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.0 4.4#



#47  
Tetrachloroethene  
Concen: 10.754 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. 0.000 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

Tgt Ion:164 Resp: 78688  
Ion Ratio Lower Upper  
164 100  
129 97.8 74.8 138.8  
131 91.3 70.1 130.1  
166 129.1 87.3 162.1

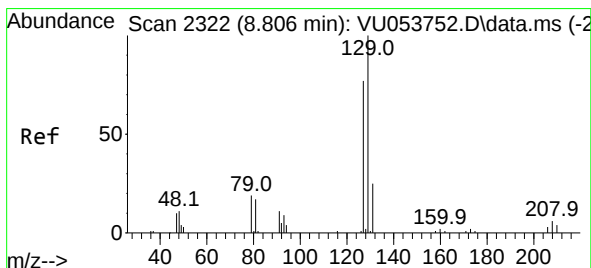
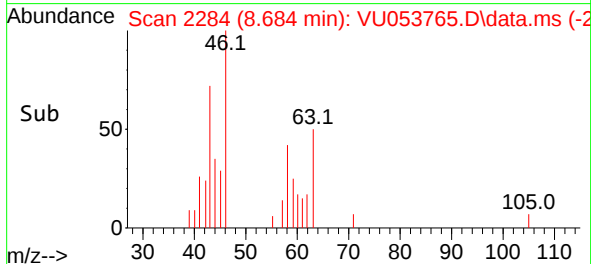
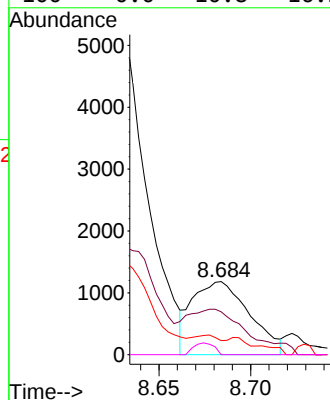
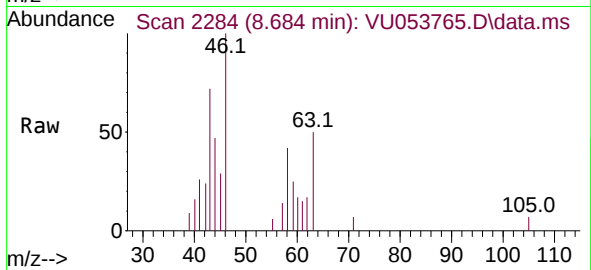




#48  
2-Hexanone  
Concen: 0.720 ug/L  
RT: 8.684 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

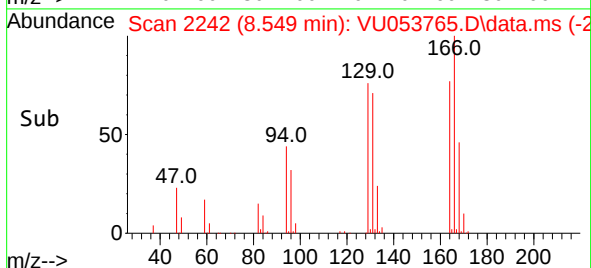
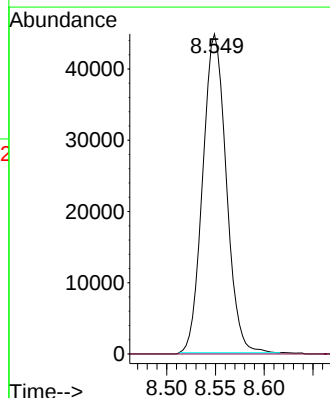
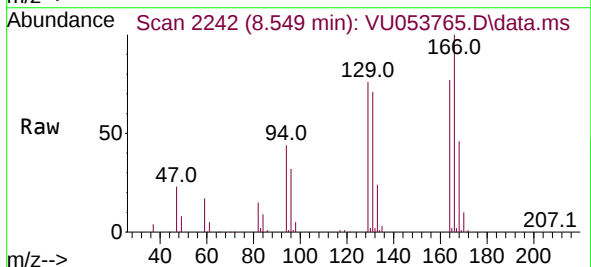
Instrument :  
MSVOA\_U  
ClientSampleId :  
BHE20

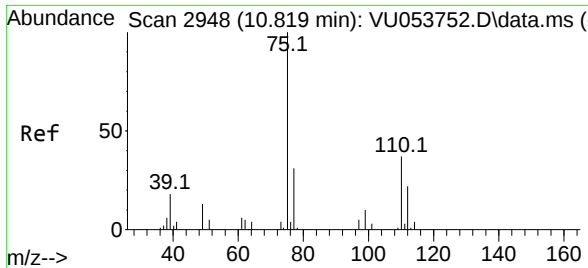
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 43 | Resp: | 2574  |       |
| Ion         | Ratio | Lower | Upper |
| 43          | 100   |       |       |
| 58          | 0.0   | 52.8  | 79.2# |
| 57          | 11.4  | 17.1  | 25.7# |
| 100         | 0.0   | 10.8  | 16.2# |



#49  
Dibromochloromethane  
Concen: 10.831 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. -0.257 min  
Lab File: VU053765.D  
Acq: 18 Apr 2023 17:27

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:129 | Resp: | 75092 |       |
| Ion         | Ratio | Lower | Upper |
| 129         | 100   |       |       |
| 127         | 0.0   | 52.2  | 97.0# |





#61  
 1,2,3-Trichloropropane  
 Concen: 1.425 ug/L  
 RT: 11.806 min Scan# 31  
 Delta R.T. 0.987 min  
 Lab File: VU053765.D  
 Acq: 18 Apr 2023 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BHE20

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 75 | Resp: | 8088       |
| Ion Ratio   | Lower | Upper      |
| 75          | 100   |            |
| 110         | 0.8   | 30.6 46.0# |
| 77          | 31.7  | 26.1 39.1  |

