

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU070323\  
 Data File : VU054742.D  
 Acq On : 03 Jul 2023 12:21  
 Operator : MD/SY  
 Sample : 03495-06  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FA8

Quant Time: Jul 05 04:41:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jul 05 04:39:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 258809   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 255520   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810 | 152   | 117336   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 68074    | 4.133    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 82.600%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 63687    | 4.130    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 82.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 28591    | 3.887    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 77.800%  |
| 20) 2-Butanone-d5             | 4.627  | 46    | 247547   | 53.455   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 106.920% |
| 24) Chloroform-d              | 5.058  | 84    | 148569   | 4.315    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 78568    | 4.681    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 93.600%  |
| 32) Benzene-d6                | 5.724  | 84    | 274732   | 3.868    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 77.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67    | 98498    | 4.152    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 83.000%  |
| 41) Toluene-d8                | 7.894  | 98    | 229909   | 3.647    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 73.000%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 35935    | 4.356    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 87.200%  |
| 46) 2-Hexanone-d5             | 8.630  | 63    | 170526   | 49.275   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 98.540%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 81647    | 4.616    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 92.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 89386    | 4.516    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 90.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.518  | 50    | 18302    | 0.659    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 3088     | 0.165    | ug/L # | 1        |
| 14) Carbon disulfide          | 2.788  | 76    | 7119     | 0.128    | ug/L # | 90       |
| 15) Methyl Acetate            | 2.959  | 43    | 1240     | 0.153    | ug/L # | 52       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 2414     | 0.125    | ug/L   | 85       |
| 19) 1,1-Dichloroethane        | 3.869  | 63    | 4343     | 0.108    | ug/L # | 81       |
| 22) cis-1,2-Dichloroethene    | 4.666  | 96    | 2578     | 0.117    | ug/L   | 98       |
| 25) Chloroform                | 5.084  | 83    | 37635    | 0.952    | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.103  | 83    | 3907     | 0.139    | ug/L   | 82       |
| 45) 1,1,2-Trichloroethane     | 8.402  | 97    | 1660     | 0.105    | ug/L   | 97       |
| 47) Tetrachloroethene         | 8.547  | 164   | 3862     | 0.208    | ug/L   | 78       |
| 48) 2-Hexanone                | 8.682  | 43    | 10812    | 1.095    | ug/L   | 88       |
| 49) Dibromochloromethane      | 8.804  | 129   | 2152     | 0.130    | ug/L   | 84       |
| 50) 1,2-Dibromoethane         | 8.923  | 107   | 1532     | 0.106    | ug/L # | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83    | 2543     | 0.127    | ug/L # | 75       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75    | 1912     | 0.161    | ug/L # | 88       |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146   | 4813     | 0.120    | ug/L   | 99       |
| -----                         |        |       |          |          |        |          |

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Operator : MD/SY  
Sample : 03495-06  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FA8

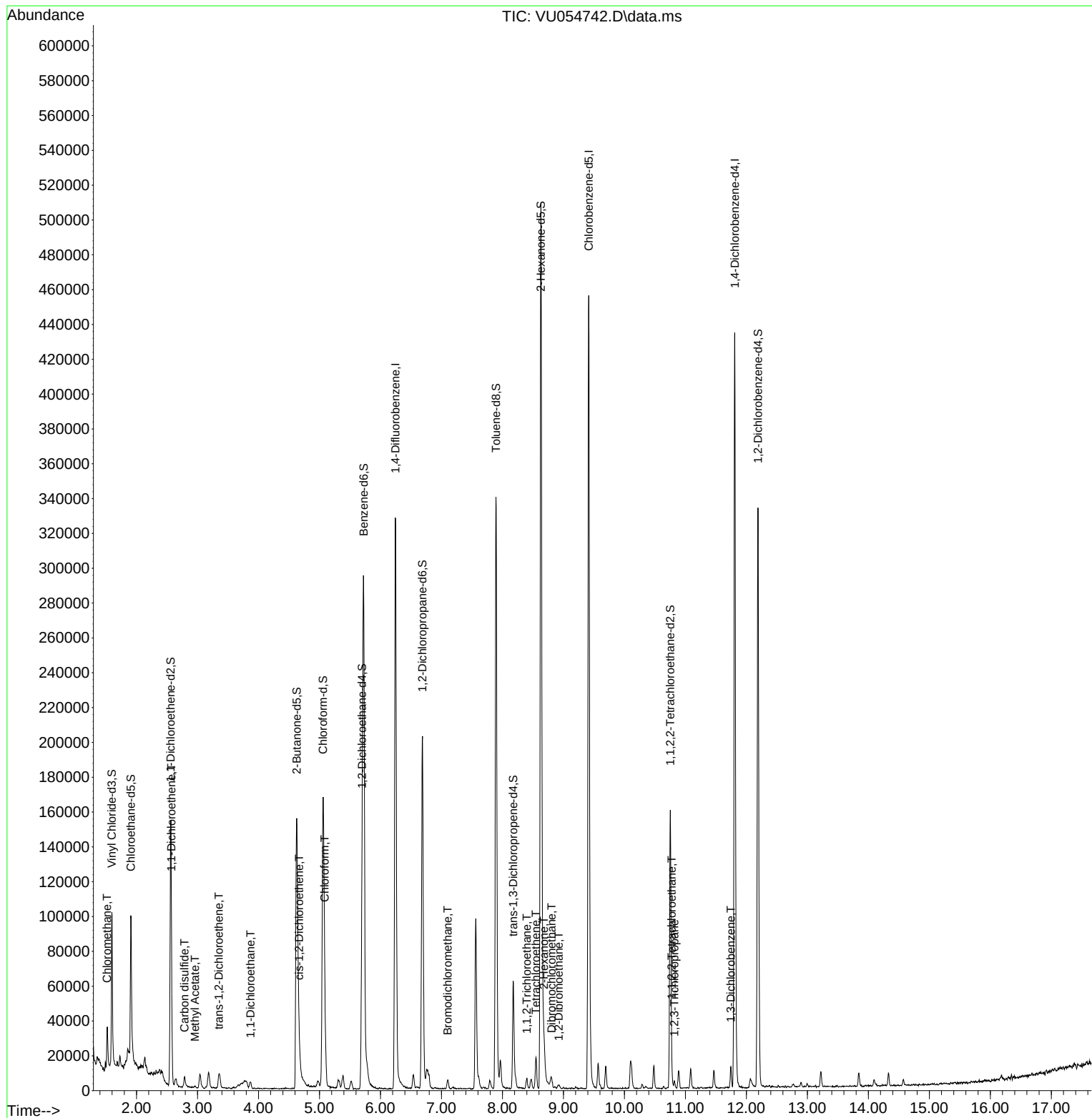
Quant Time: Jul 05 04:41:17 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Jul 05 04:39:25 2023  
Response via : Initial Calibration

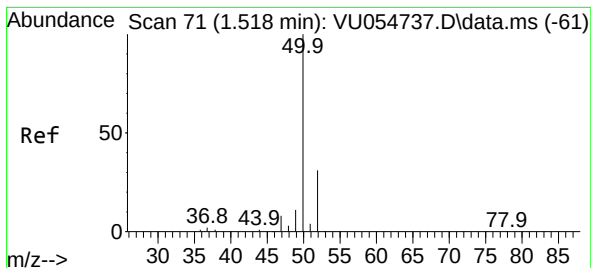
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                             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

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#3

Chloromethane

Concen: 0.659 ug/L

RT: 1.518 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

Instrument :

MSVOA\_U

ClientSampleId :

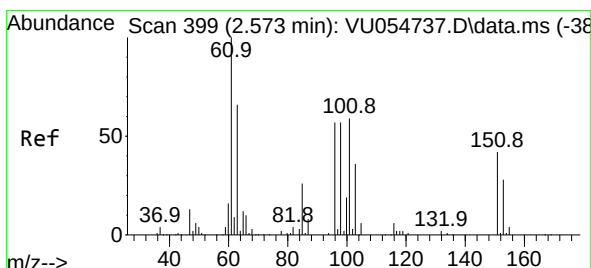
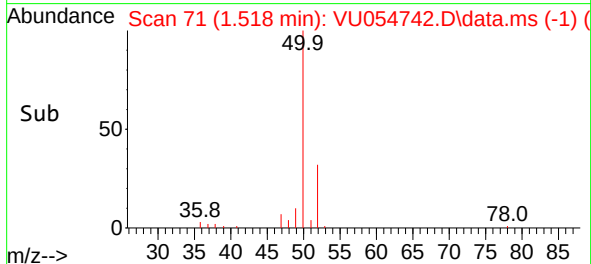
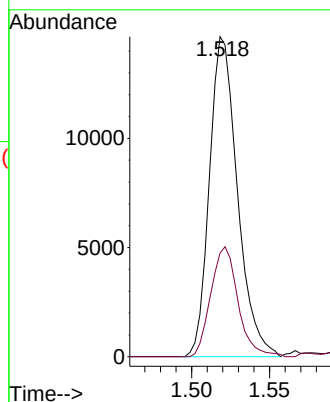
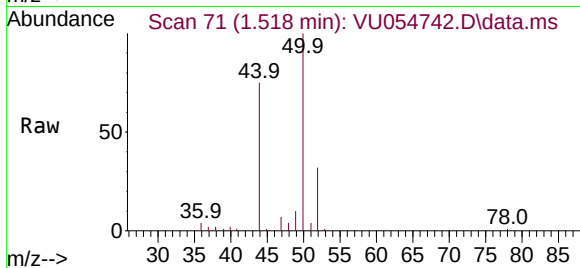
H0FA8

Tgt Ion: 50 Resp: 18302

Ion Ratio Lower Upper

50 100

52 32.4 23.4 43.4



#12

1,1-Dichloroethene

Concen: 0.165 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

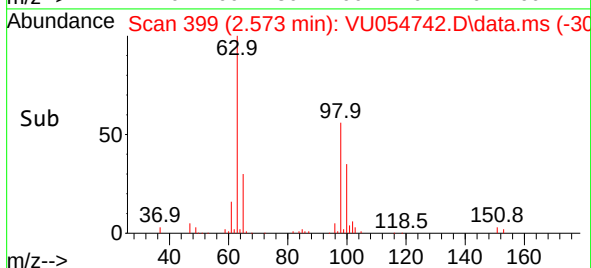
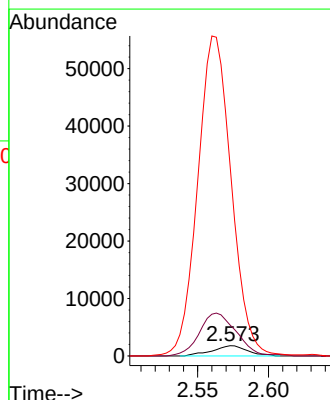
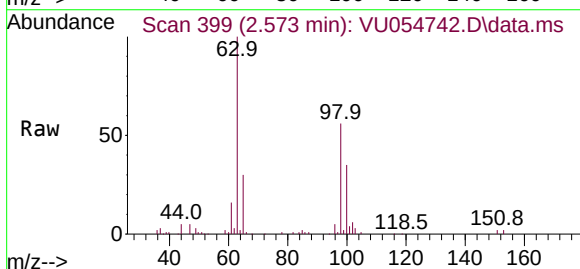
Tgt Ion: 96 Resp: 3088

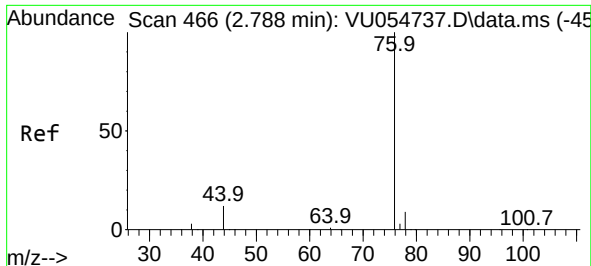
Ion Ratio Lower Upper

96 100

61 302.6 119.9 222.7#

63 1859.6 64.3 119.3#

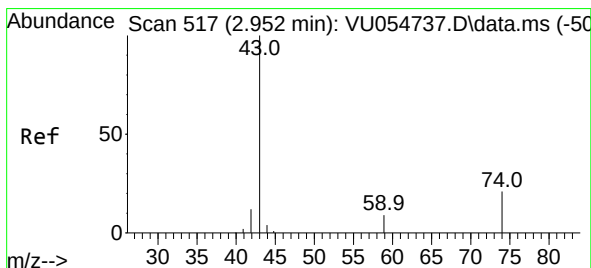
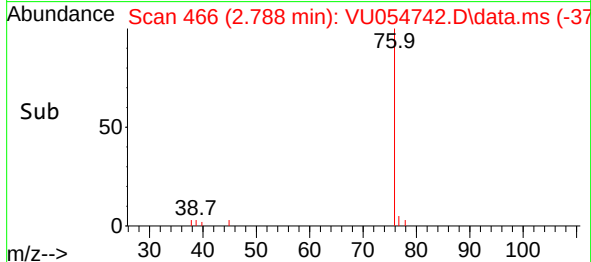
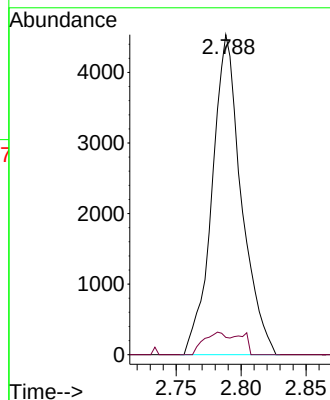
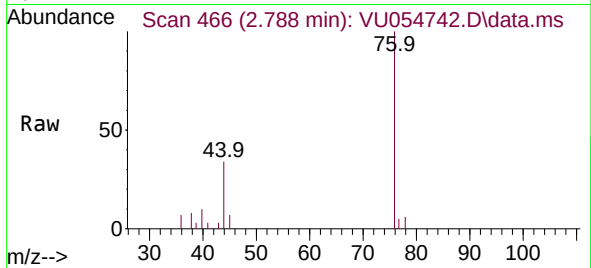




#14  
Carbon disulfide  
Concen: 0.128 ug/L  
RT: 2.788 min Scan# 466  
Delta R.T. -0.000 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

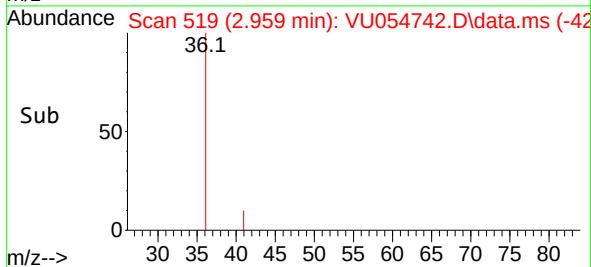
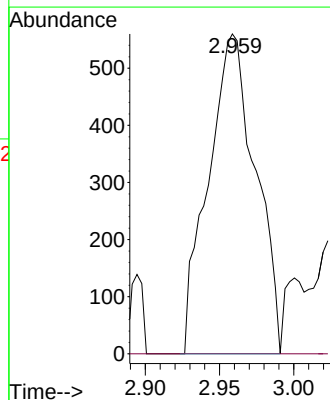
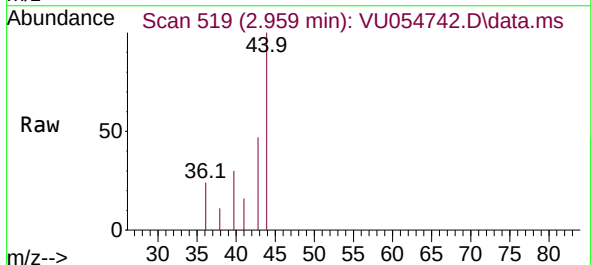
Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FA8

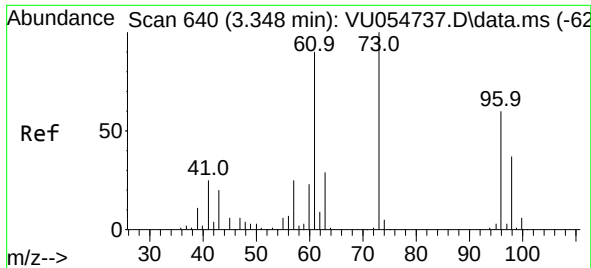
Tgt Ion: 76 Resp: 7119  
Ion Ratio Lower Upper  
76 100  
78 5.4 7.4 11.0#



#15  
Methyl Acetate  
Concen: 0.153 ug/L  
RT: 2.959 min Scan# 519  
Delta R.T. 0.006 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

Tgt Ion: 43 Resp: 1240  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.6#

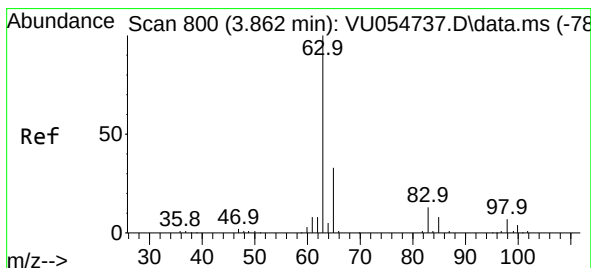
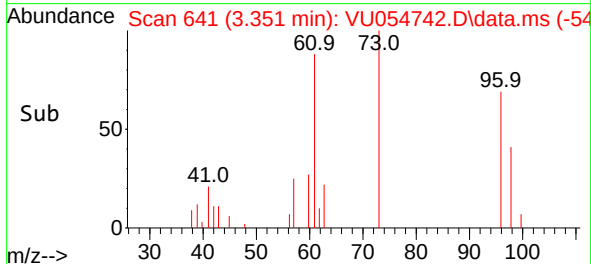
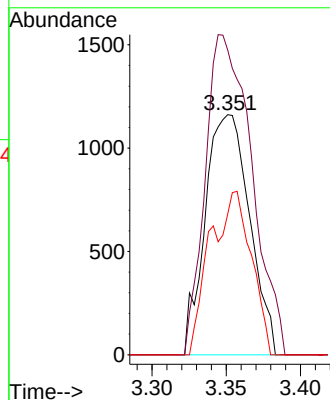
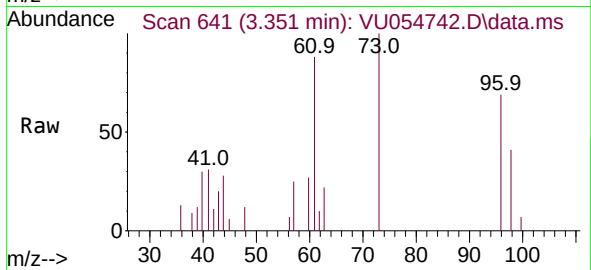




#18  
trans-1,2-Dichloroethene  
Concen: 0.125 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

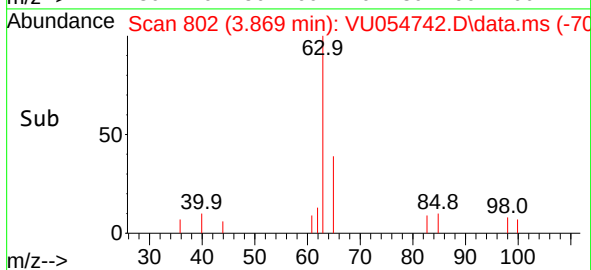
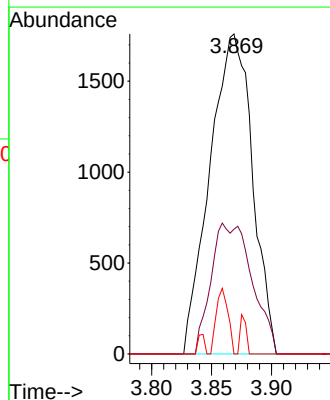
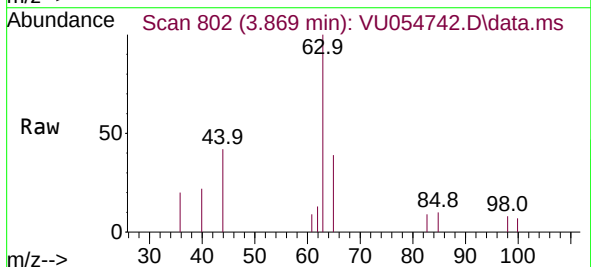
Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FA8

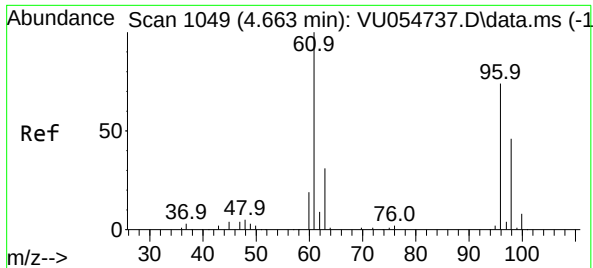
Tgt Ion: 96 Resp: 2414  
Ion Ratio Lower Upper  
96 100  
61 126.9 104.6 194.2  
98 58.6 45.4 84.4



#19  
1,1-Dichloroethane  
Concen: 0.108 ug/L  
RT: 3.869 min Scan# 802  
Delta R.T. 0.006 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

Tgt Ion: 63 Resp: 4343  
Ion Ratio Lower Upper  
63 100  
65 39.0 22.2 41.2  
83 0.0 9.0 16.6

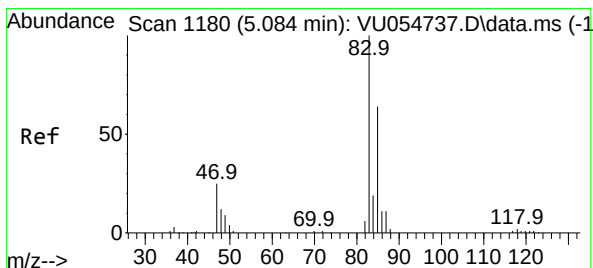
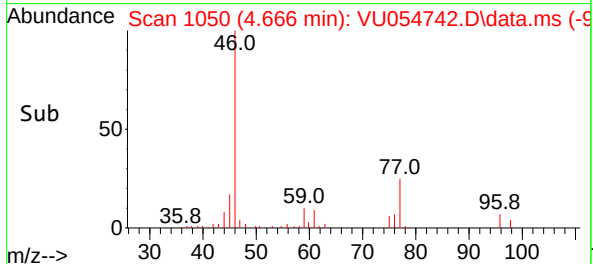
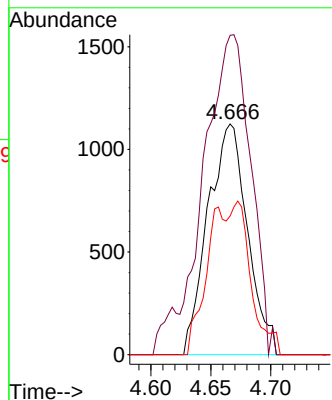
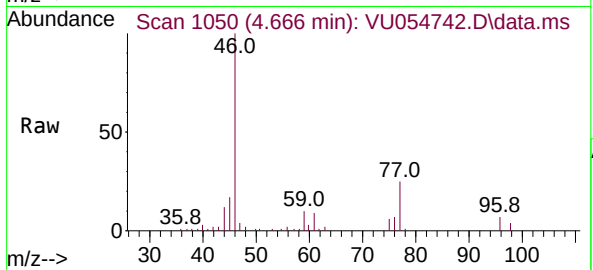




#22  
 cis-1,2-Dichloroethene  
 Concen: 0.117 ug/L  
 RT: 4.666 min Scan# 1050  
 Delta R.T. 0.003 min  
 Lab File: VU054742.D  
 Acq: 03 Jul 2023 12:21

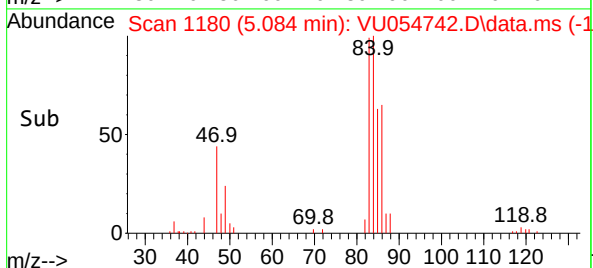
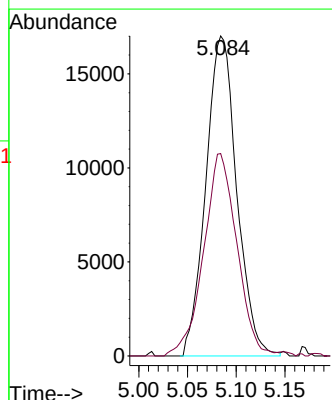
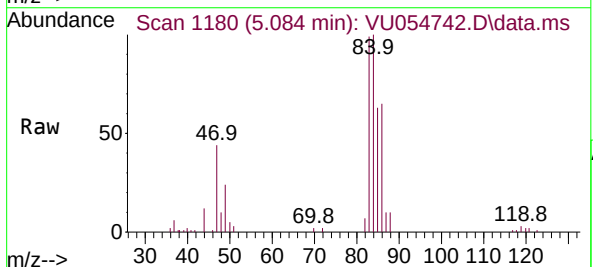
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0FA8

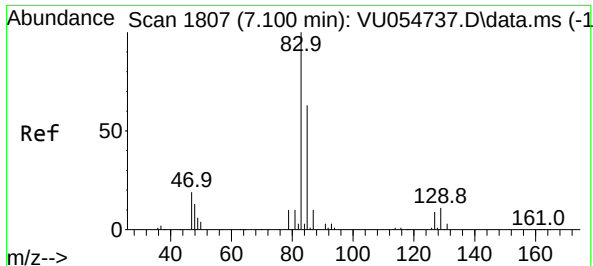
Tgt Ion: 96 Resp: 2578  
 Ion Ratio Lower Upper  
 96 100  
 61 138.4 96.5 179.1  
 98 60.1 44.9 83.3



#25  
 Chloroform  
 Concen: 0.952 ug/L  
 RT: 5.084 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: VU054742.D  
 Acq: 03 Jul 2023 12:21

Tgt Ion: 83 Resp: 37635  
 Ion Ratio Lower Upper  
 83 100  
 85 63.2 44.7 82.9

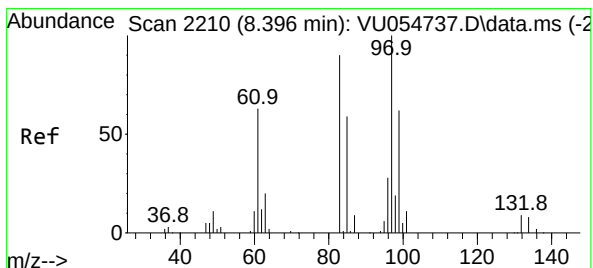
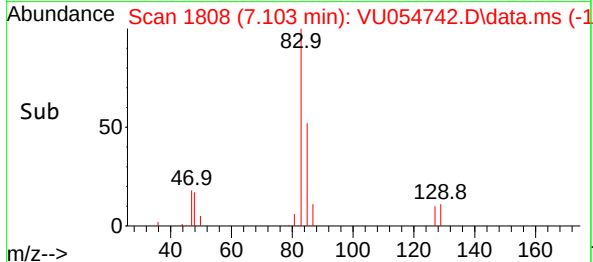
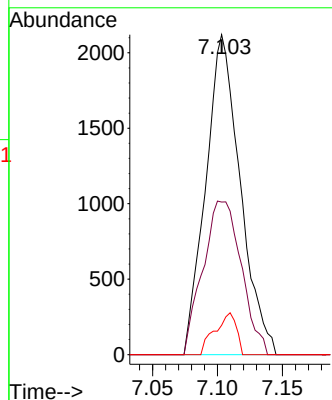
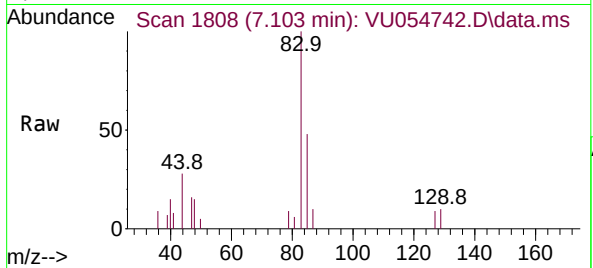




#38  
Bromodichloromethane  
Concen: 0.139 ug/L  
RT: 7.103 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

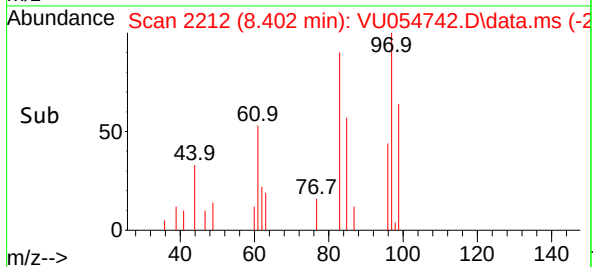
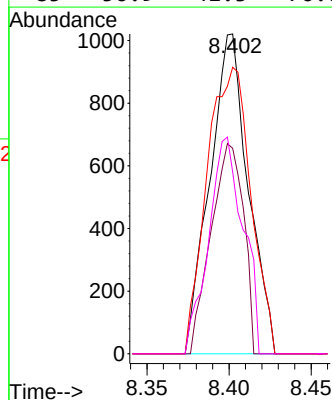
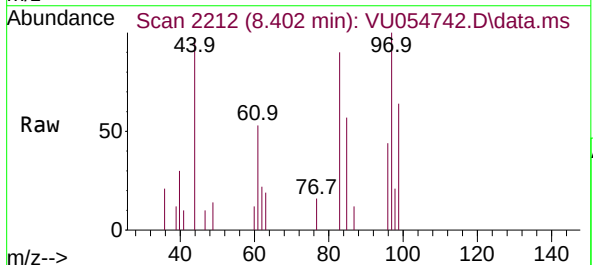
Instrument :  
MSVOA\_U  
ClientSampleId :  
H0FA8

Tgt Ion: 83 Resp: 3907  
Ion Ratio Lower Upper  
83 100  
85 47.7 44.1 81.9  
127 9.2 6.6 10.0

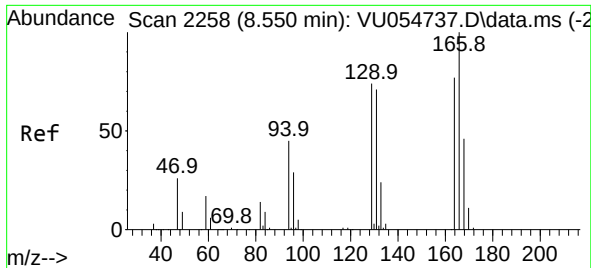


#45  
1,1,2-Trichloroethane  
Concen: 0.105 ug/L  
RT: 8.402 min Scan# 2212  
Delta R.T. 0.006 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

Tgt Ion: 97 Resp: 1660  
Ion Ratio Lower Upper  
97 100  
99 64.3 43.0 80.0  
83 89.6 63.8 118.6  
85 56.9 41.3 76.7

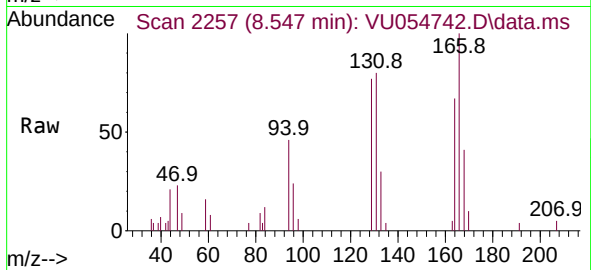






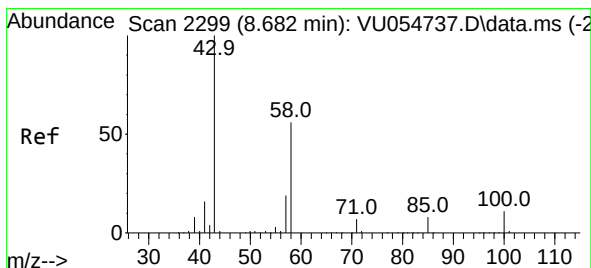
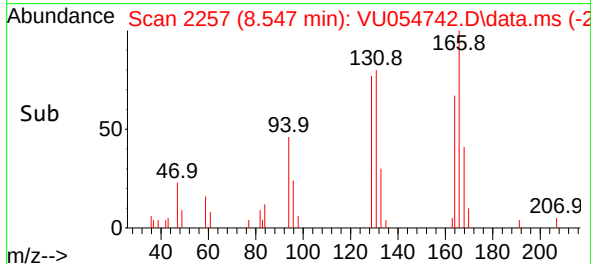
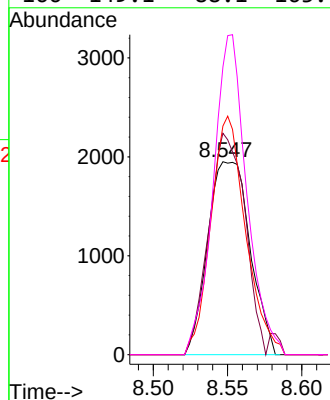
#47  
Tetrachloroethene  
Concen: 0.208 ug/L  
RT: 8.547 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

Instrument :  
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ClientSampleId :  
H0FA8



Tgt Ion:164 Resp: 3862

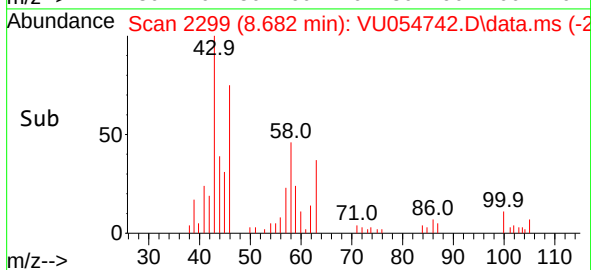
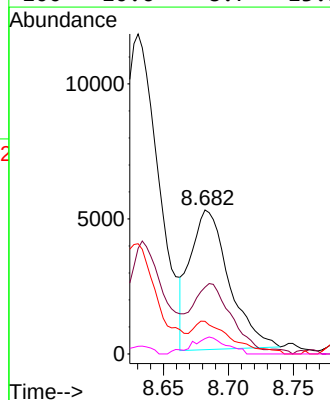
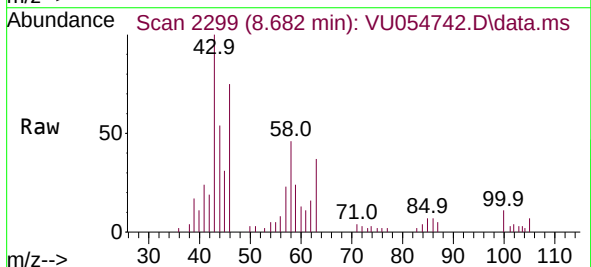
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 114.7 | 67.7  | 125.7 |
| 131 | 118.5 | 64.6  | 120.0 |
| 166 | 149.1 | 88.1  | 163.7 |

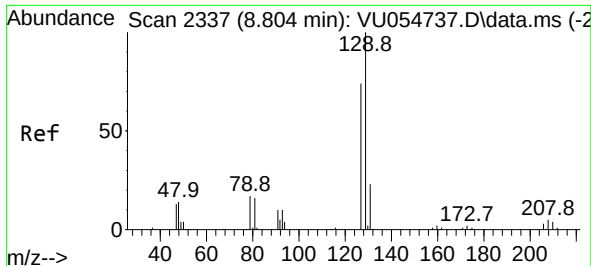


#48  
2-Hexanone  
Concen: 1.095 ug/L  
RT: 8.682 min Scan# 2299  
Delta R.T. -0.000 min  
Lab File: VU054742.D  
Acq: 03 Jul 2023 12:21

Tgt Ion: 43 Resp: 10812

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 45.3  | 45.2  | 67.8  |
| 57  | 22.8  | 15.8  | 23.6  |
| 100 | 10.6  | 8.7   | 13.1  |





#49

Dibromochloromethane

Concen: 0.130 ug/L

RT: 8.804 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

Instrument :

MSVOA\_U

ClientSampleId :

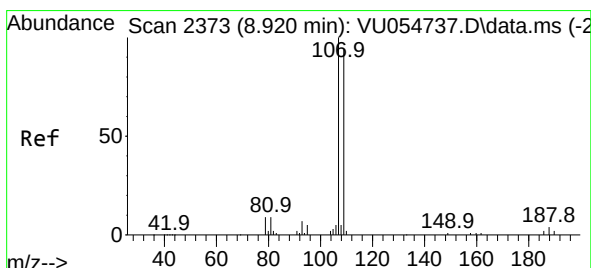
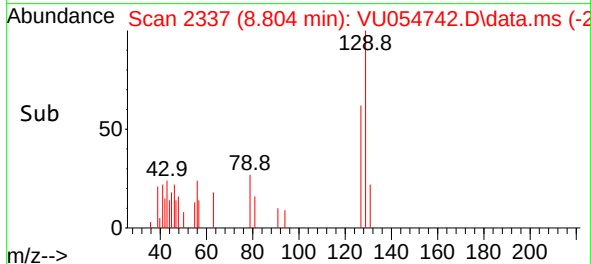
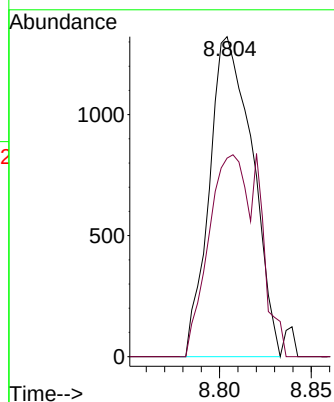
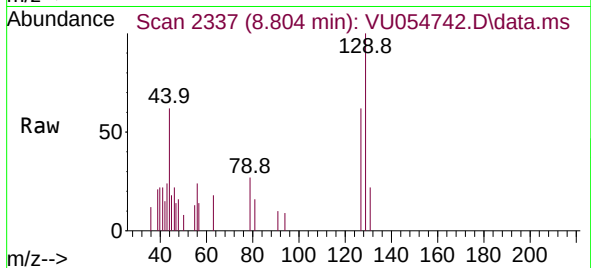
H0FA8

Tgt Ion:129 Resp: 2152

Ion Ratio Lower Upper

129 100

127 62.0 53.2 98.8



#50

1,2-Dibromoethane

Concen: 0.106 ug/L

RT: 8.923 min Scan# 2374

Delta R.T. 0.003 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

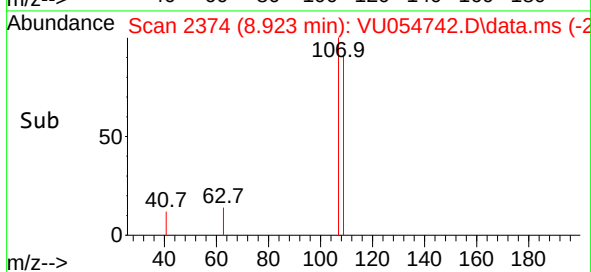
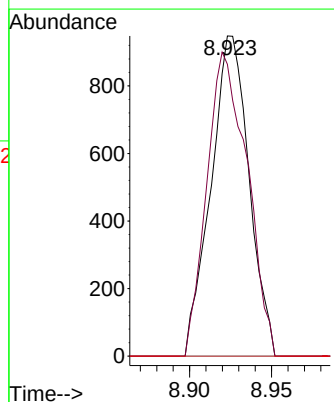
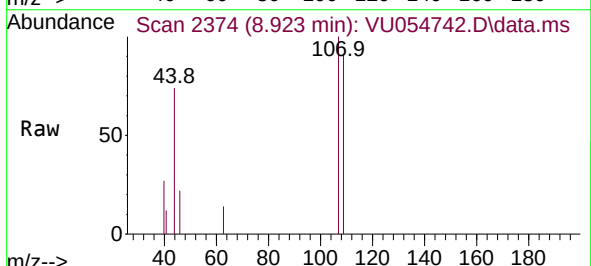
Tgt Ion:107 Resp: 1532

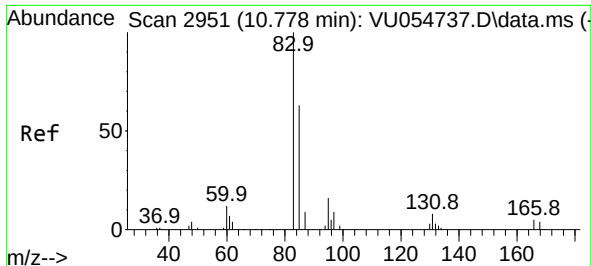
Ion Ratio Lower Upper

107 100

109 91.1 66.6 123.6

188 0.0 3.1 4.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.127 ug/L

RT: 10.775 min Scan# 2951

Delta R.T. -0.003 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

Instrument :

MSVOA\_U

ClientSampleId :

H0FA8

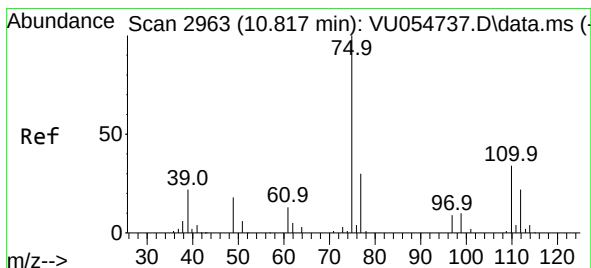
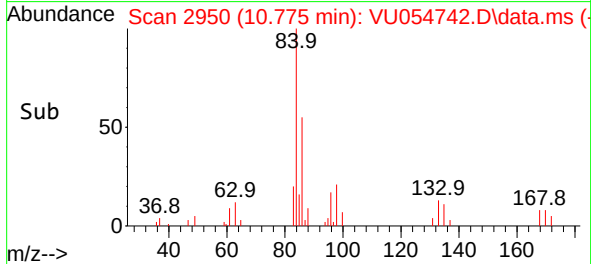
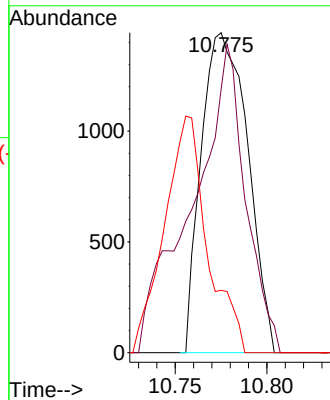
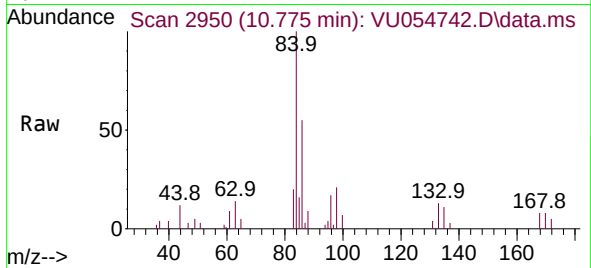
Tgt Ion: 83 Resp: 2543

Ion Ratio Lower Upper

83 100

85 82.5 44.2 82.2#

131 19.5 7.0 10.6#



#61

1,2,3-Trichloropropane

Concen: 0.161 ug/L

RT: 10.817 min Scan# 2963

Delta R.T. -0.000 min

Lab File: VU054742.D

Acq: 03 Jul 2023 12:21

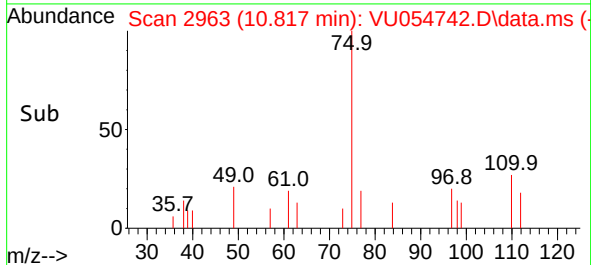
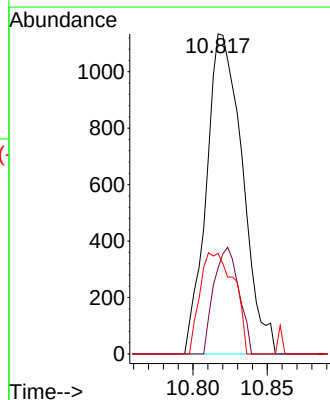
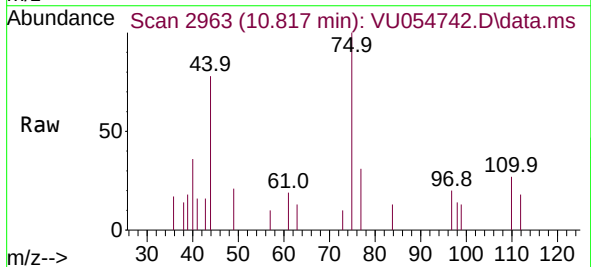
Tgt Ion: 75 Resp: 1912

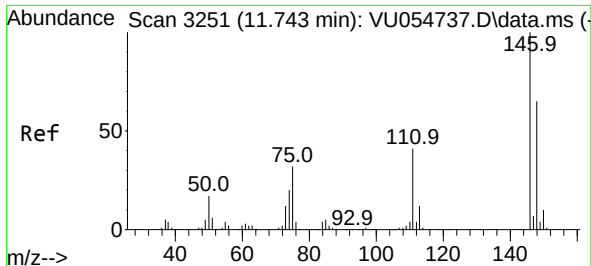
Ion Ratio Lower Upper

75 100

110 23.1 28.0 42.0#

77 29.9 25.4 38.2





#64

1,3-Dichlorobenzene

Concen: 0.120 ug/L

RT: 11.746 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU054742.D

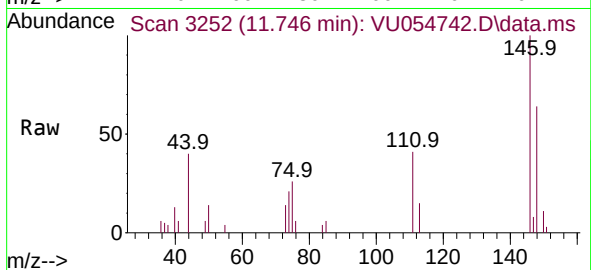
Acq: 03 Jul 2023 12:21

Instrument :

MSVOA\_U

ClientSampleId :

H0FA8



Tgt Ion:146 Resp: 4813

Ion Ratio Lower Upper

146 100

111 40.8 28.9 53.7

148 63.8 44.0 81.8

