

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU070523\  
 Data File : VU054759.D  
 Acq On : 05 Jul 2023 09:48  
 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005088

Quant Time: Jul 06 00:59:09 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   | 232177   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 224519   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.808 | 152   | 116773   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 65325    | 4.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 88.400%  |
| 7) Chloroethane-d5            | 1.908  | 69    | 61517    | 4.447    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 27231    | 4.126    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 82.600%  |
| 20) 2-Butanone-d5             | 4.628  | 46    | 243756   | 58.674   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 117.340% |
| 24) Chloroform-d              | 5.059  | 84    | 145293   | 4.704    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.699  | 65    | 74412    | 4.942    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 98.800%  |
| 32) Benzene-d6                | 5.724  | 84    | 261565   | 4.191    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 83.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.689  | 67    | 90856    | 4.359    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 87.200%  |
| 41) Toluene-d8                | 7.895  | 98    | 239397   | 4.322    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 86.400%  |
| 43) trans-1,3-Dichloroprop... | 8.178  | 79    | 34635    | 4.778    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 95.600%  |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 172327   | 56.671   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 113.340% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 80901    | 5.205    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 104.000% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 93465    | 4.745    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.384  | 85    | 82456    | 3.801    | ug/L   | 100      |
| 3) Chloromethane              | 1.519  | 50    | 99057    | 3.975    | ug/L   | 96       |
| 5) Vinyl chloride             | 1.602  | 62    | 110337   | 4.313    | ug/L   | 100      |
| 6) Bromomethane               | 1.856  | 94    | 61685    | 4.386    | ug/L   | 95       |
| 8) Chloroethane               | 1.930  | 64    | 69090    | 4.506    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.133  | 101   | 163295   | 5.193    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.577  | 101   | 94162    | 5.118    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 77454    | 4.599    | ug/L   | 85       |
| 13) Acetone                   | 2.638  | 43    | 234780   | 59.938   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.789  | 76    | 181514   | 3.635    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.953  | 43    | 41348    | 5.696    | ug/L   | 98       |
| 16) Methylene chloride        | 3.043  | 84    | 107913   | 4.557    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.361  | 73    | 226659   | 5.453    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 79671    | 4.582    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.863  | 63    | 183192   | 5.091    | ug/L   | 98       |
| 21) 2-Butanone                | 4.705  | 43    | 302999   | 59.603   | ug/L   | 100      |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 99109    | 5.006    | ug/L   | 97       |
| 23) Bromochloromethane        | 4.972  | 128   | 43285    | 5.254    | ug/L   | 92       |
| 25) Chloroform                | 5.084  | 83    | 189427   | 5.340    | ug/L   | 97       |

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 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

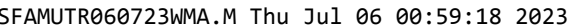
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005088

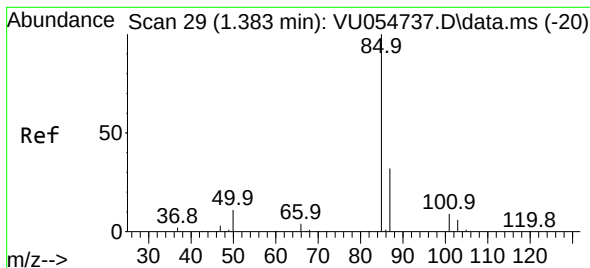
Quant Time: Jul 06 00:59:09 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jul 05 04:39:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.792  | 62   | 117503   | 5.651  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane     | 5.313  | 97   | 159311   | 5.233  | ug/L  | 99       |
| 30) Cyclohexane               | 5.383  | 56   | 132448   | 3.994  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.522  | 117  | 138196   | 5.268  | ug/L  | 99       |
| 33) Benzene                   | 5.769  | 78   | 376961   | 4.672  | ug/L  | 100      |
| 34) Trichloroethene           | 6.538  | 95   | 98618    | 4.622  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.760  | 83   | 133560   | 4.141  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.789  | 63   | 108894   | 4.991  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.100  | 83   | 136675   | 5.534  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 156063   | 5.239  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.789  | 43   | 672295   | 57.743 | ug/L  | 99       |
| 42) Toluene                   | 7.965  | 91   | 416809   | 5.016  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.207  | 75   | 130636   | 5.404  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 79228    | 5.708  | ug/L  | 98       |
| 47) Tetrachloroethene         | 8.551  | 164  | 77020    | 4.716  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.682  | 43   | 509728   | 58.757 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.808  | 129  | 88658    | 6.083  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 69913    | 5.487  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.444  | 112  | 258491   | 4.990  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.567  | 91   | 442605   | 4.877  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.692  | 106  | 168784   | 5.063  | ug/L  | 98       |
| 54) o-Xylene                  | 10.097 | 106  | 163663   | 5.076  | ug/L  | 99       |
| 55) Styrene                   | 10.113 | 104  | 288883   | 5.339  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.779 | 83   | 99749    | 5.658  | ug/L  | 99       |
| 59) Bromoform                 | 10.287 | 173  | 54299    | 6.477  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.480 | 105  | 451733   | 5.288  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 69390    | 5.880  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 359341   | 5.156  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 373074   | 5.270  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 220071   | 5.511  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 216984   | 5.415  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.210 | 146  | 206768   | 5.630  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 16082    | 6.201  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 167036   | 5.544  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.837 | 180  | 139505   | 5.600  | ug/L  | 99       |
| 71) Naphthalene               | 14.084 | 128  | 225235   | 5.560  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 127413   | 5.953  | ug/L  | 99       |

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

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QLast Update : Wed Jul 05 04:39:25 2023  
Response via : Initial Calibration

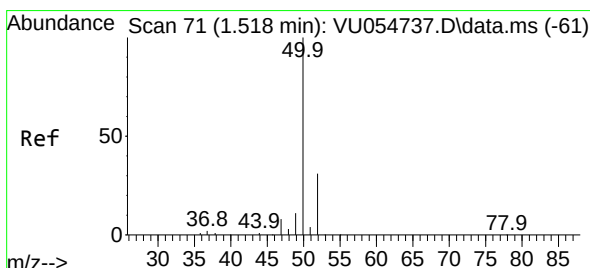
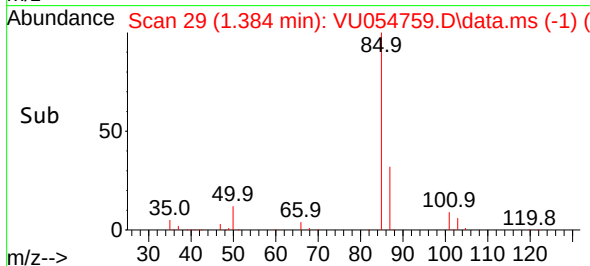
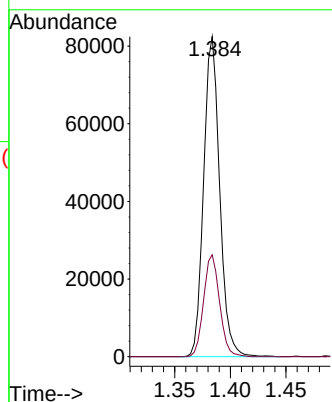
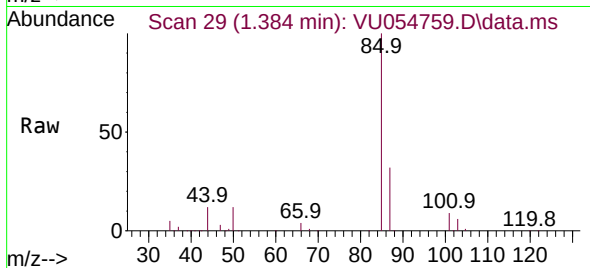




#2  
 Dichlorodifluoromethane  
 Concen: 3.801 ug/L  
 RT: 1.384 min Scan# 29  
 Delta R.T. 0.000 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

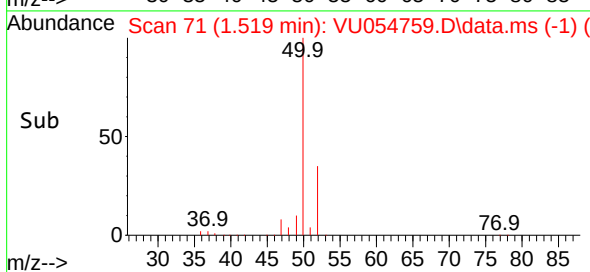
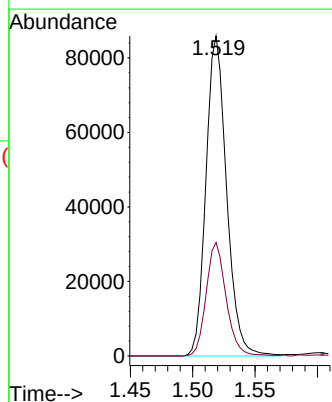
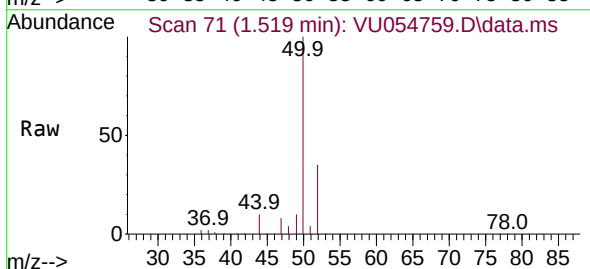
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005088

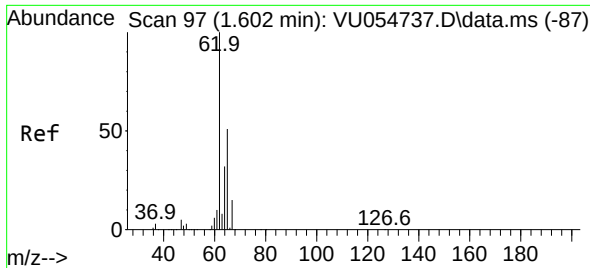
Tgt Ion: 85 Resp: 82456  
 Ion Ratio Lower Upper  
 85 100  
 87 31.6 25.4 38.2



#3  
 Chloromethane  
 Concen: 3.975 ug/L  
 RT: 1.519 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

Tgt Ion: 50 Resp: 99057  
 Ion Ratio Lower Upper  
 50 100  
 52 35.5 23.4 43.4

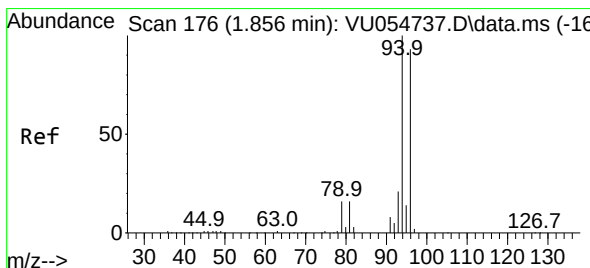
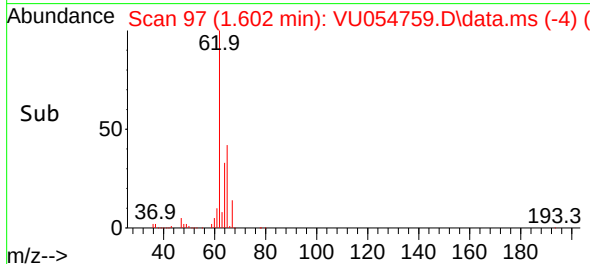
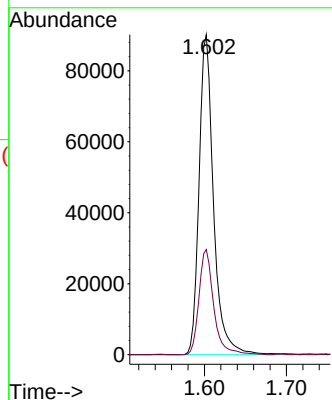
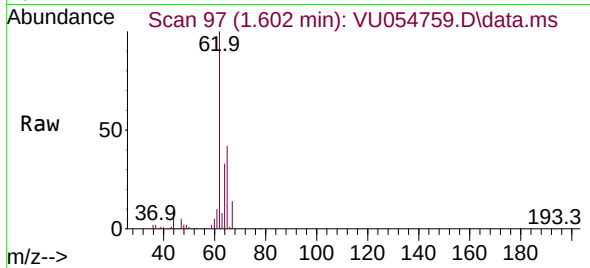




#5  
 Vinyl chloride  
 Concen: 4.313 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

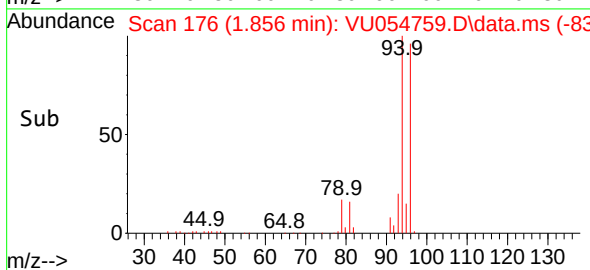
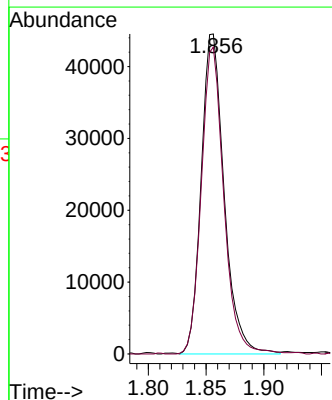
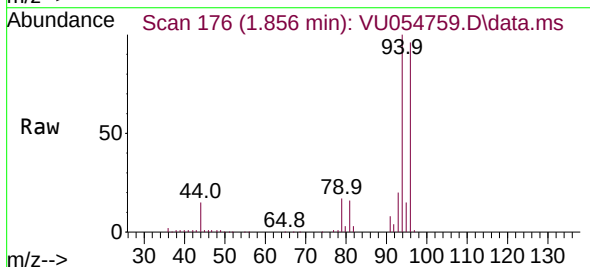
Instrument :  
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 VSTD005088

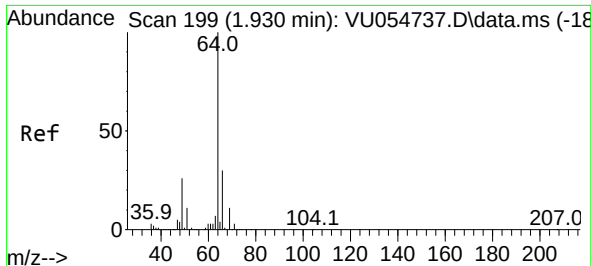
Tgt Ion: 62 Resp: 110337  
 Ion Ratio Lower Upper  
 62 100  
 64 32.8 23.0 42.6



#6  
 Bromomethane  
 Concen: 4.386 ug/L  
 RT: 1.856 min Scan# 176  
 Delta R.T. 0.000 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

Tgt Ion: 94 Resp: 61685  
 Ion Ratio Lower Upper  
 94 100  
 96 95.9 63.6 118.2

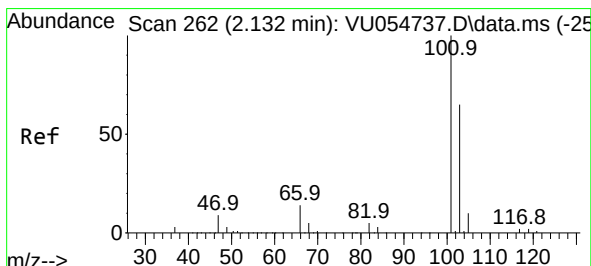
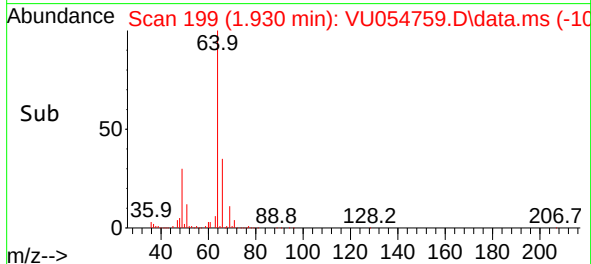
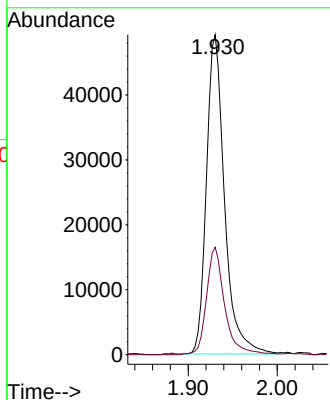
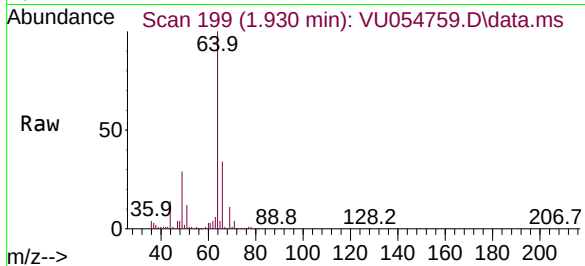




#8  
Chloroethane  
Concen: 4.506 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

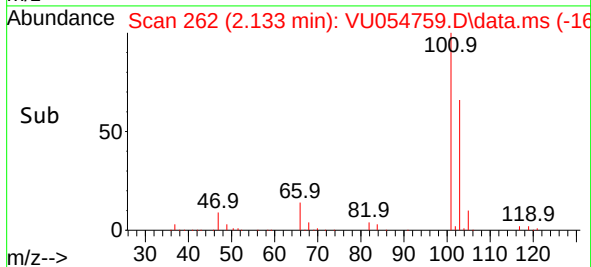
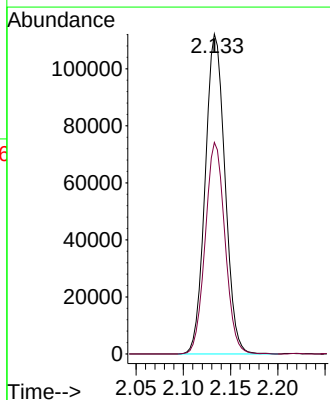
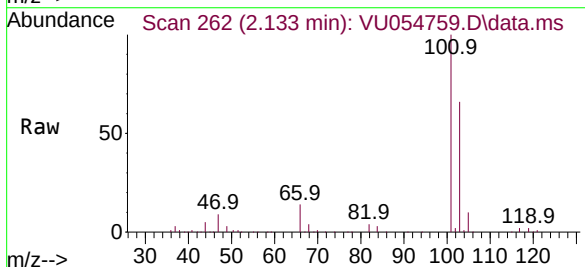
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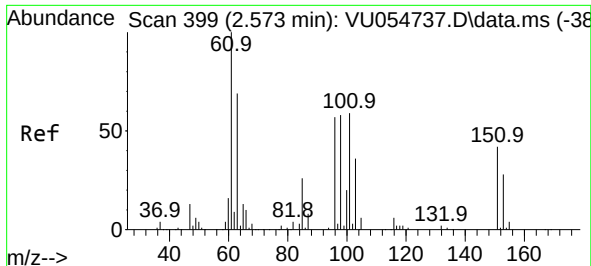
Tgt Ion: 64 Resp: 69090  
Ion Ratio Lower Upper  
64 100  
66 33.6 22.9 42.5



#9  
Trichlorofluoromethane  
Concen: 5.193 ug/L  
RT: 2.133 min Scan# 262  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 101 Resp: 163295  
Ion Ratio Lower Upper  
101 100  
103 66.0 50.6 75.8

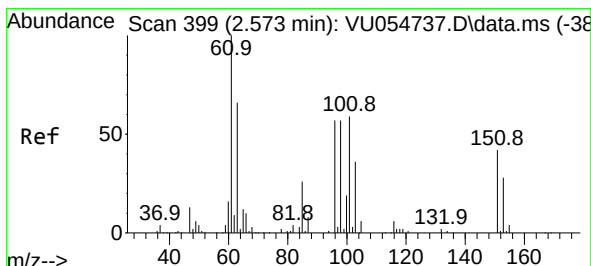
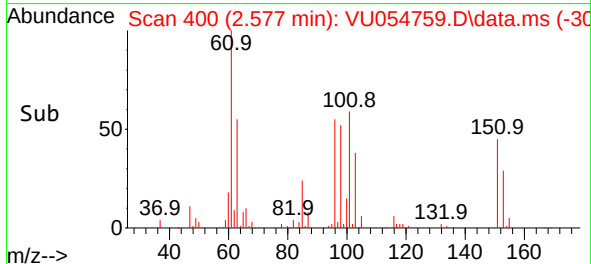
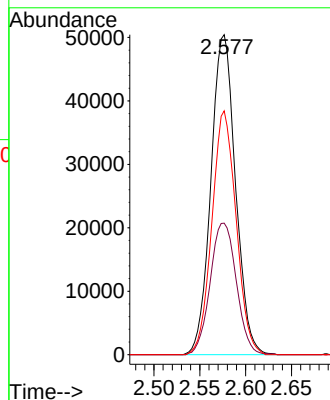
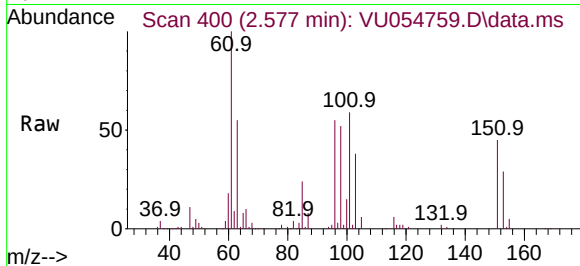




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.118 ug/L  
RT: 2.577 min Scan# 400  
Delta R.T. 0.004 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

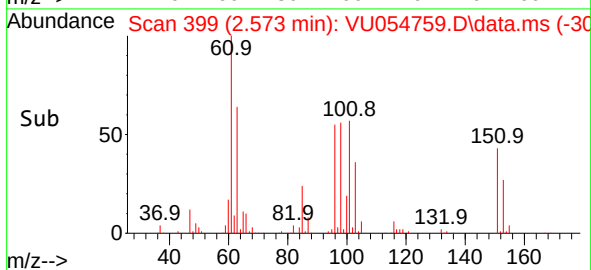
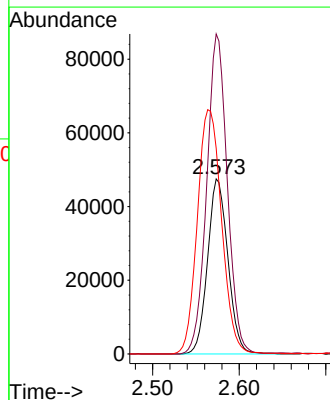
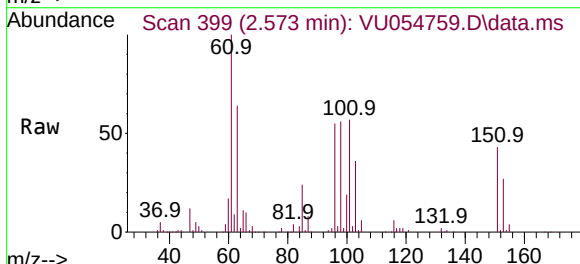
Instrument :  
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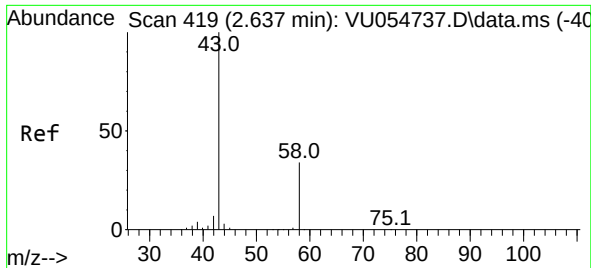
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Ion Ratio Lower Upper  
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151 74.9 57.7 86.5



#12  
1,1-Dichloroethene  
Concen: 4.599 ug/L  
RT: 2.573 min Scan# 399  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 96 Resp: 77454  
Ion Ratio Lower Upper  
96 100  
61 182.7 119.9 222.7  
63 117.4 64.3 119.3





#13

Acetone

Concen: 59.938 ug/L

RT: 2.638 min Scan# 419

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

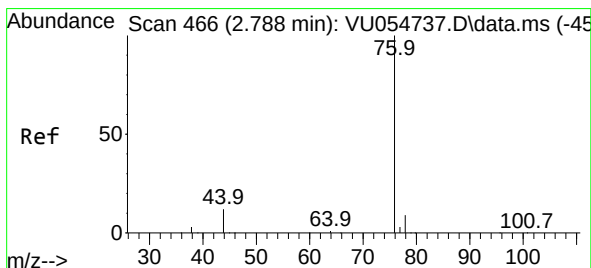
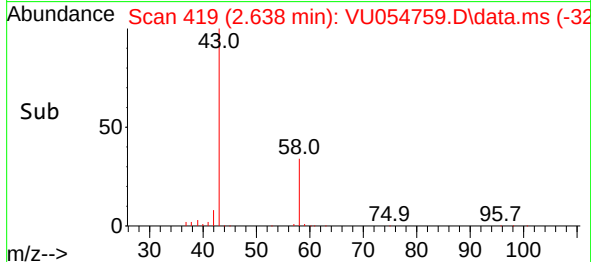
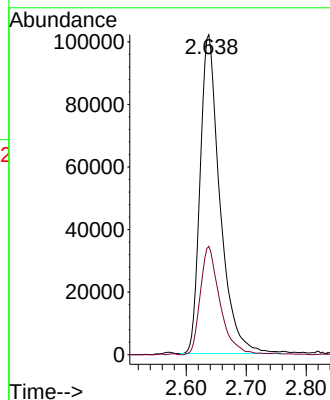
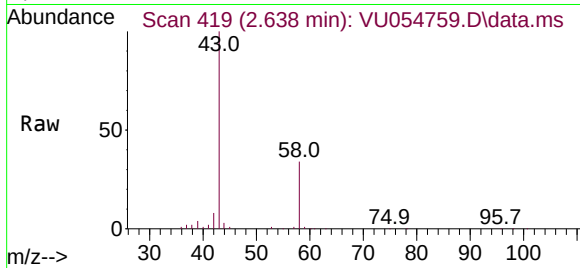
VSTD005088

Tgt Ion: 43 Resp: 234780

Ion Ratio Lower Upper

43 100

58 33.8 0.0 67.2



#14

Carbon disulfide

Concen: 3.635 ug/L

RT: 2.789 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU054759.D

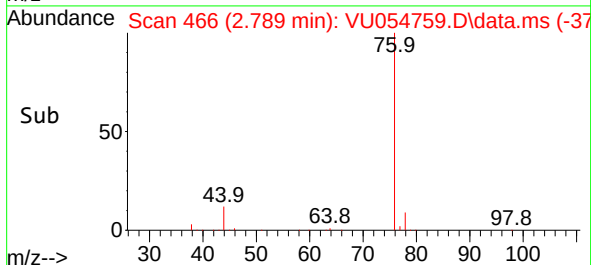
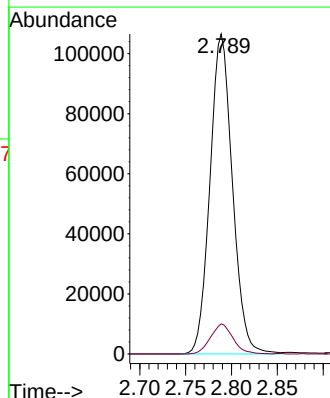
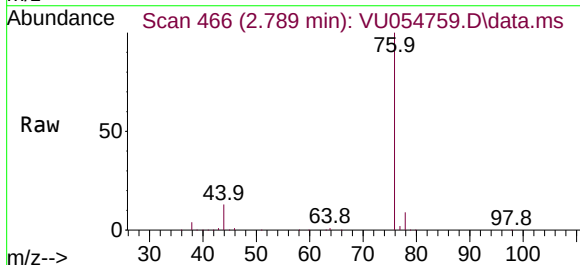
Acq: 05 Jul 2023 09:48

Tgt Ion: 76 Resp: 181514

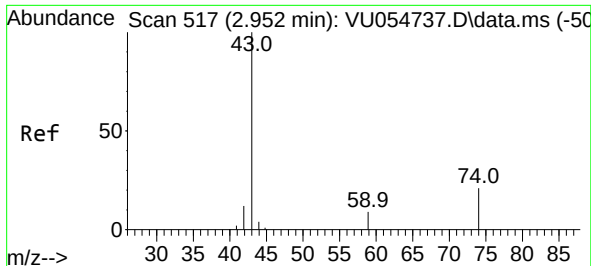
Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0



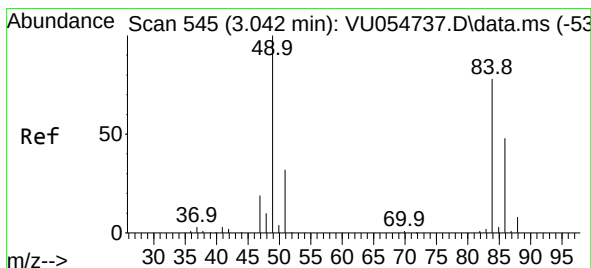
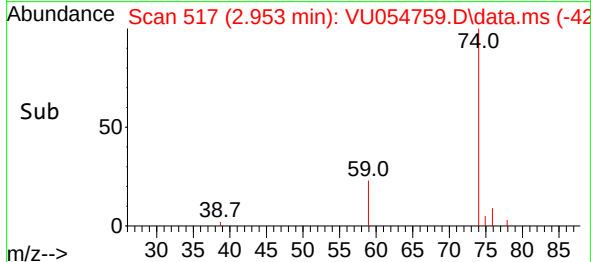
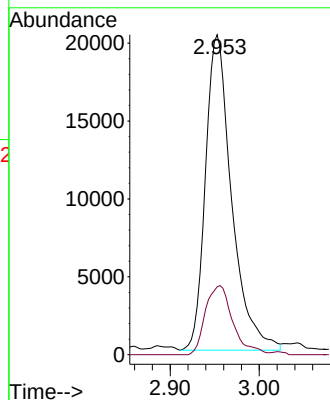
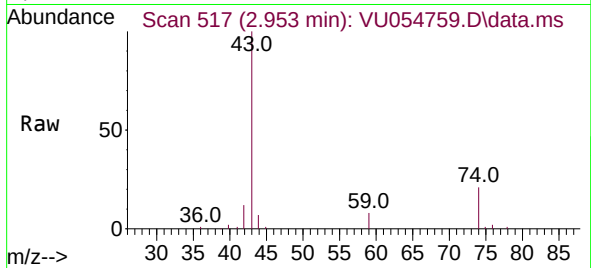




#15  
Methyl Acetate  
Concen: 5.696 ug/L  
RT: 2.953 min Scan# 517  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

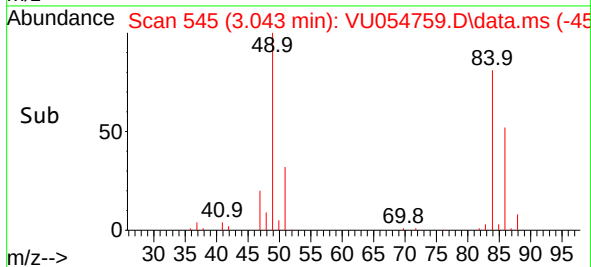
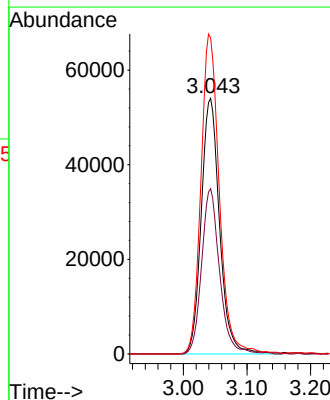
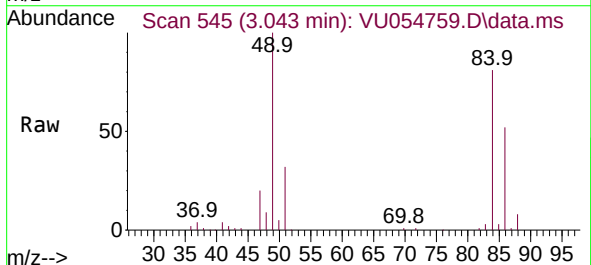
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

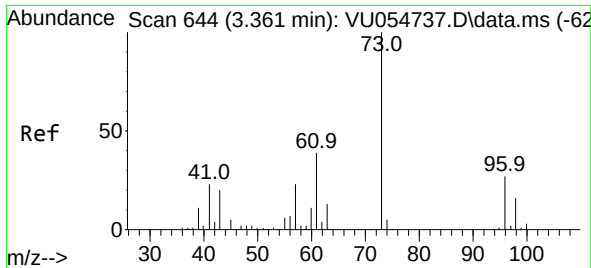
Tgt Ion: 43 Resp: 41348  
Ion Ratio Lower Upper  
43 100  
74 22.9 19.0 28.6



#16  
Methylene chloride  
Concen: 4.557 ug/L  
RT: 3.043 min Scan# 545  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 84 Resp: 107913  
Ion Ratio Lower Upper  
84 100  
86 64.6 43.9 81.5  
49 123.6 86.1 159.9

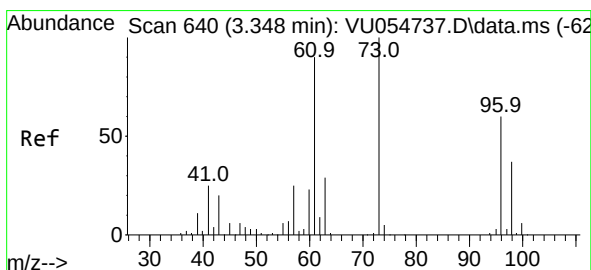
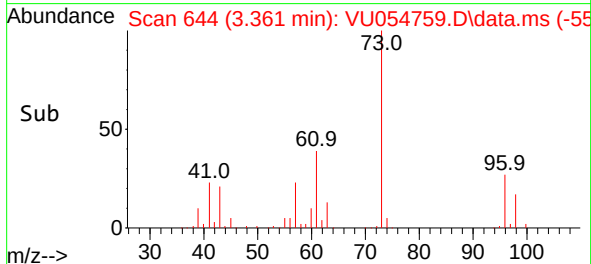
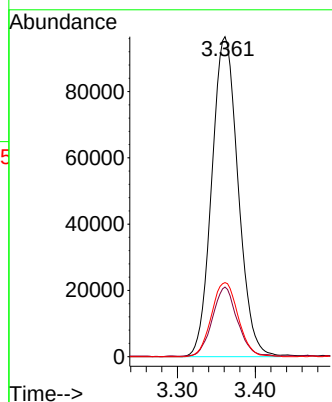
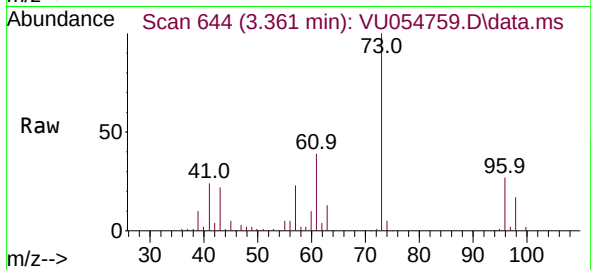




#17  
Methyl tert-butyl Ether  
Concen: 5.453 ug/L  
RT: 3.361 min Scan# 644  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

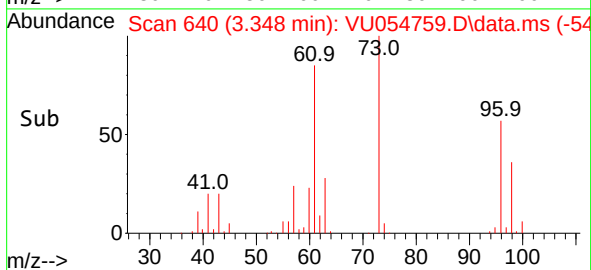
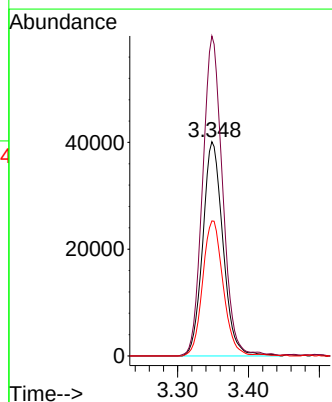
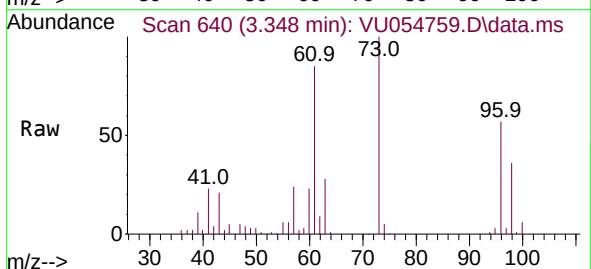
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

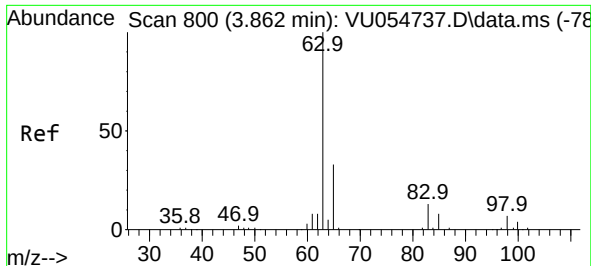
Tgt Ion: 73 Resp: 226659  
Ion Ratio Lower Upper  
73 100  
43 20.5 15.7 23.5  
57 23.5 18.6 28.0



#18  
trans-1,2-Dichloroethene  
Concen: 4.582 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 96 Resp: 79671  
Ion Ratio Lower Upper  
96 100  
61 149.4 104.6 194.2  
98 63.0 45.4 84.4





#19

1,1-Dichloroethane

Concen: 5.091 ug/L

RT: 3.863 min Scan# 800

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005088

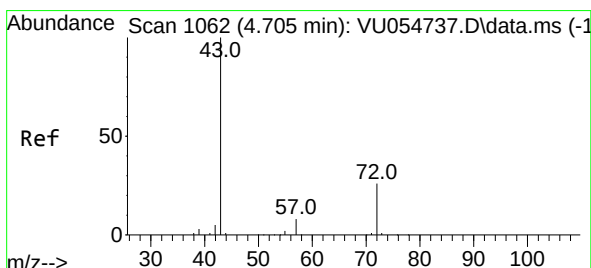
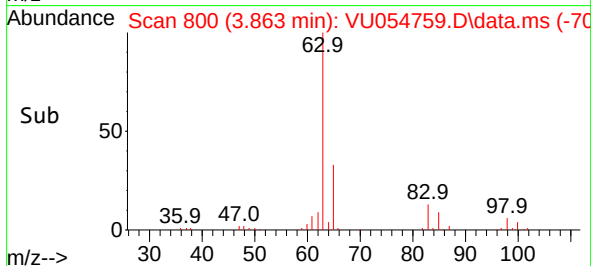
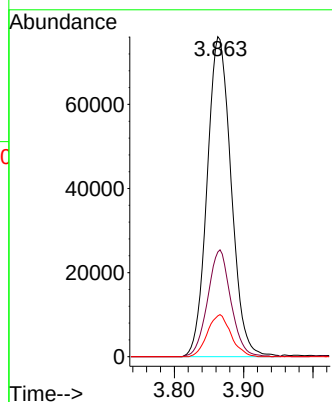
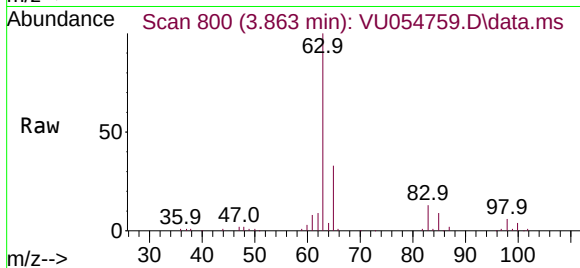
Tgt Ion: 63 Resp: 183192

Ion Ratio Lower Upper

63 100

65 33.5 22.2 41.2

83 12.8 9.0 16.6



#21

2-Butanone

Concen: 59.603 ug/L

RT: 4.705 min Scan# 1062

Delta R.T. 0.000 min

Lab File: VU054759.D

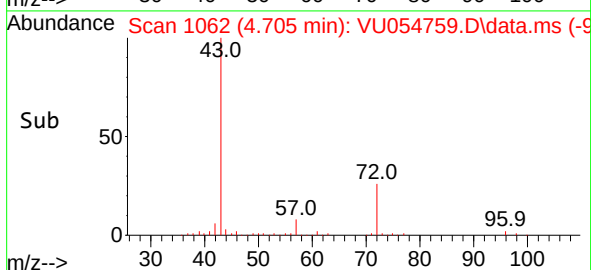
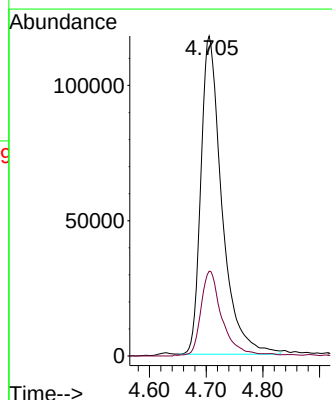
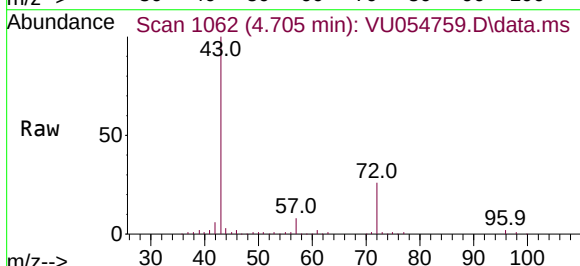
Acq: 05 Jul 2023 09:48

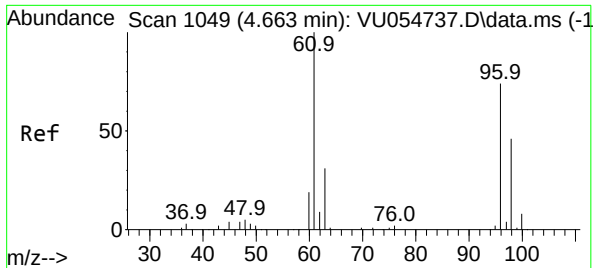
Tgt Ion: 43 Resp: 302999

Ion Ratio Lower Upper

43 100

72 26.8 13.4 40.1

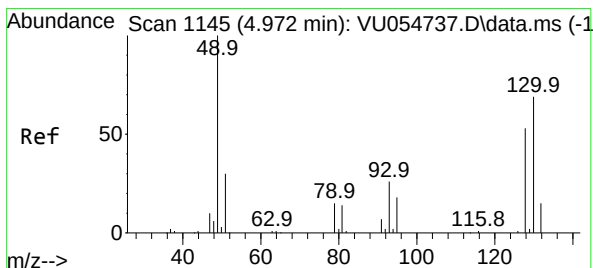
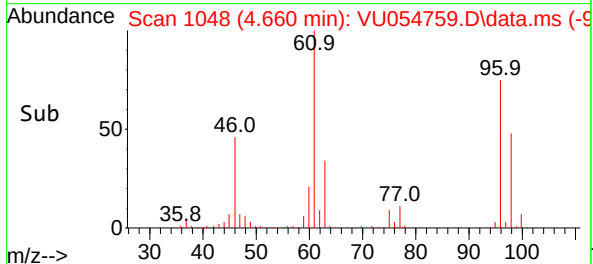
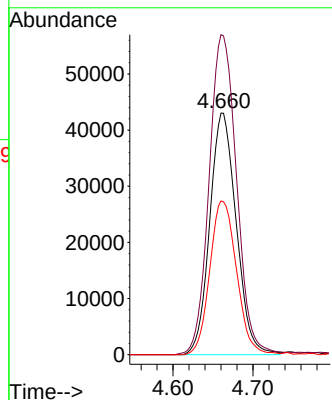
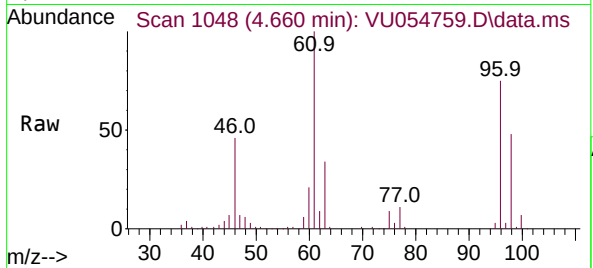




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.006 ug/L  
 RT: 4.660 min Scan# 1048  
 Delta R.T. -0.003 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

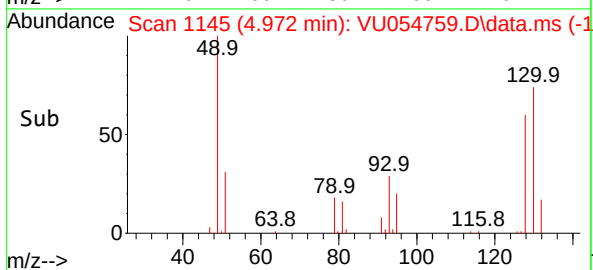
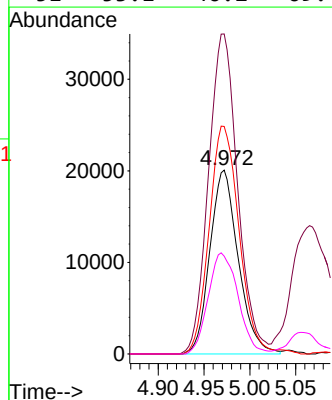
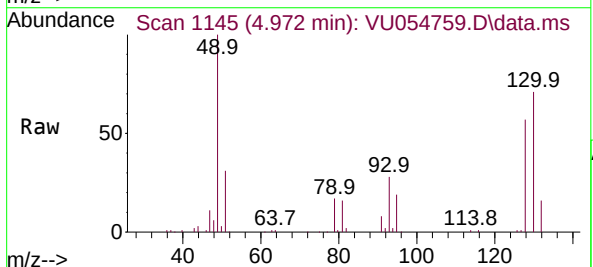
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005088

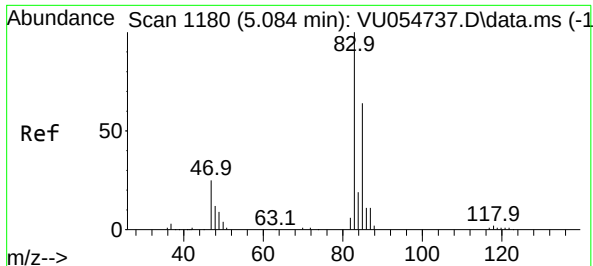
Tgt Ion: 96 Resp: 99109  
 Ion Ratio Lower Upper  
 96 100  
 61 132.5 96.5 179.1  
 98 63.6 44.9 83.3



#23  
 Bromochloromethane  
 Concen: 5.254 ug/L  
 RT: 4.972 min Scan# 1145  
 Delta R.T. 0.000 min  
 Lab File: VU054759.D  
 Acq: 05 Jul 2023 09:48

Tgt Ion: 128 Resp: 43285  
 Ion Ratio Lower Upper  
 128 100  
 49 174.0 132.1 245.3  
 130 123.7 91.5 169.9  
 51 53.1 46.2 69.4





#25

Chloroform

Concen: 5.340 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

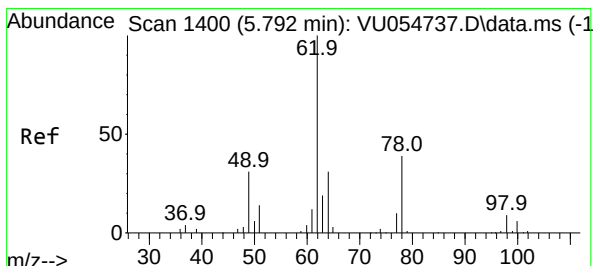
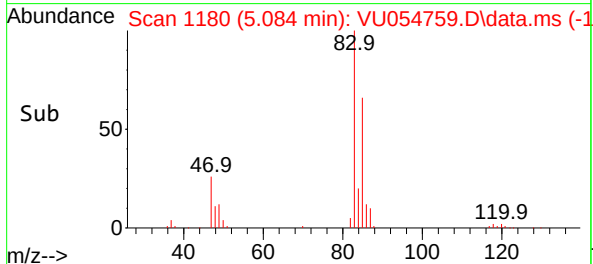
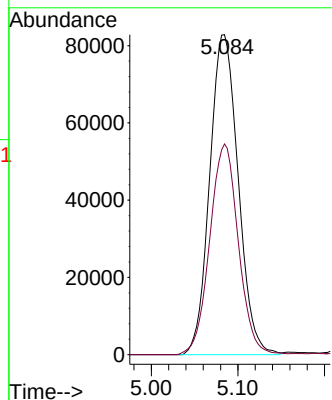
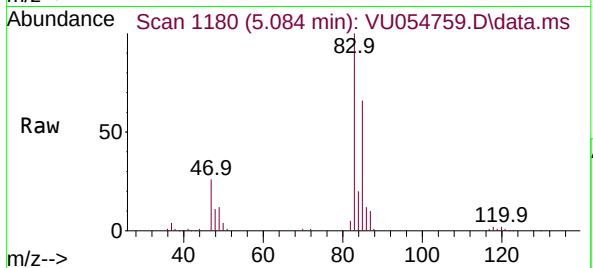
VSTD005088

Tgt Ion: 83 Resp: 189427

Ion Ratio Lower Upper

83 100

85 65.9 44.7 82.9



#27

1,2-Dichloroethane

Concen: 5.651 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. 0.000 min

Lab File: VU054759.D

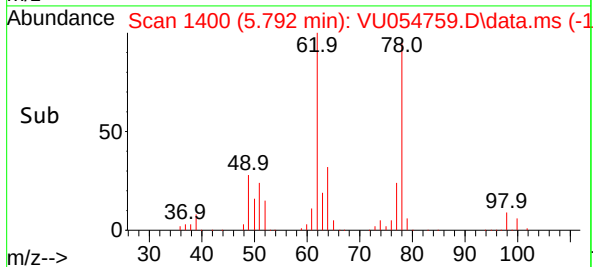
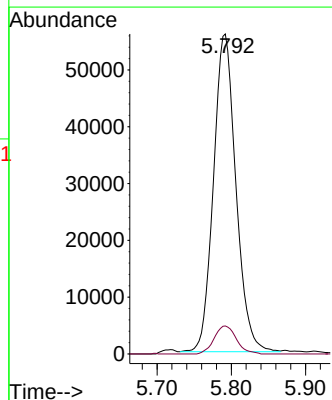
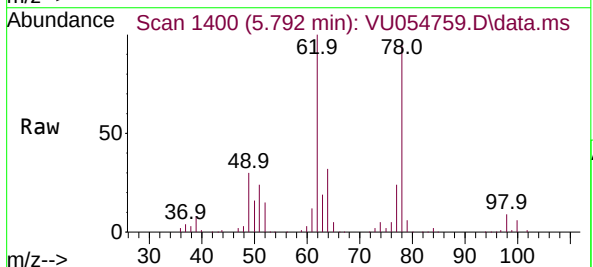
Acq: 05 Jul 2023 09:48

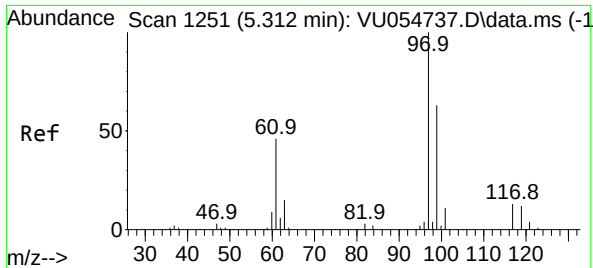
Tgt Ion: 62 Resp: 117503

Ion Ratio Lower Upper

62 100

98 8.7 7.8 11.6

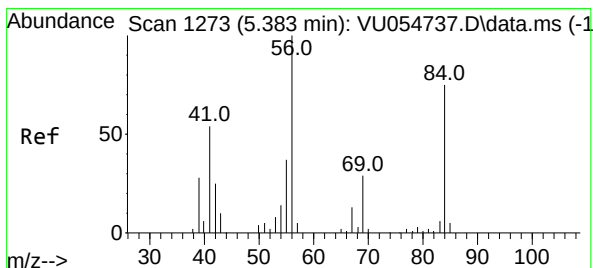
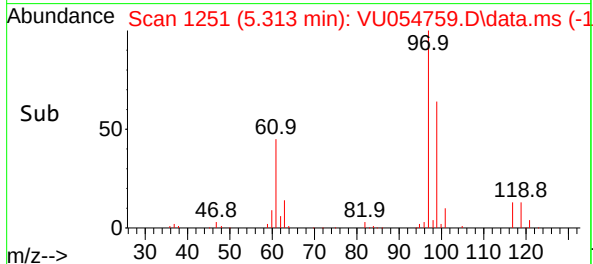
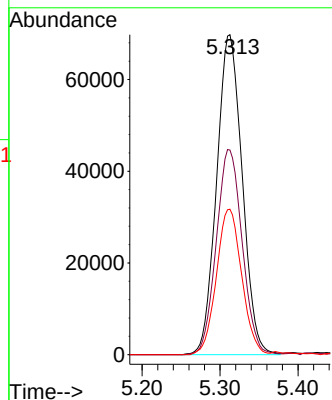
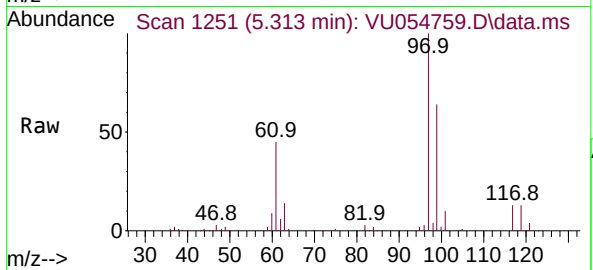




#29  
1,1,1-Trichloroethane  
Concen: 5.233 ug/L  
RT: 5.313 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

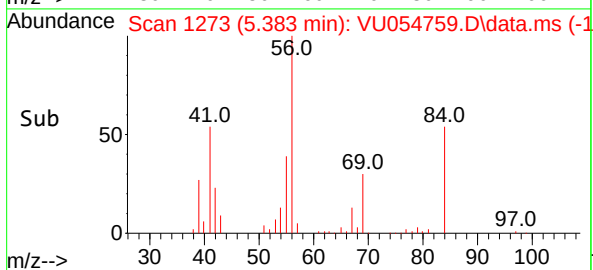
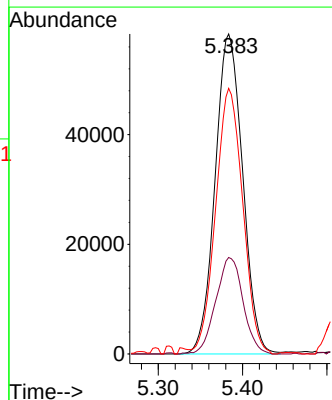
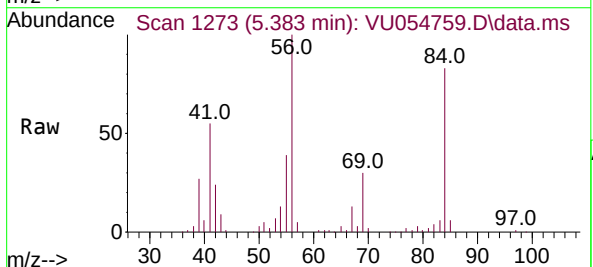
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

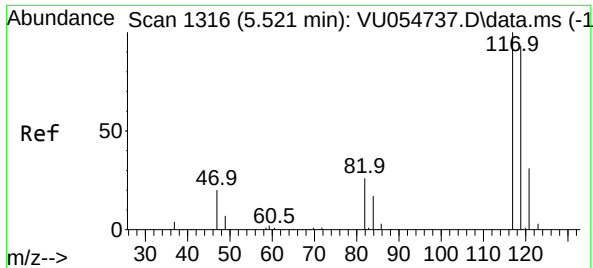
Tgt Ion: 97 Resp: 159311  
Ion Ratio Lower Upper  
97 100  
99 64.8 50.8 76.2  
61 44.9 36.1 54.1



#30  
Cyclohexane  
Concen: 3.994 ug/L  
RT: 5.383 min Scan# 1273  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 56 Resp: 132448  
Ion Ratio Lower Upper  
56 100  
69 29.8 23.9 35.9  
84 81.9 63.0 94.6

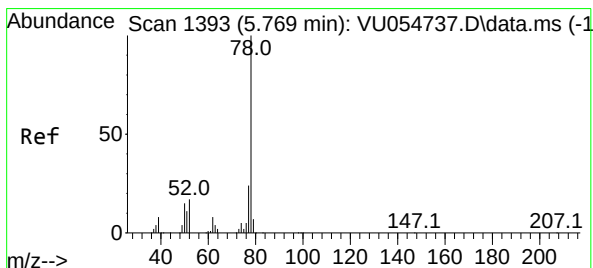
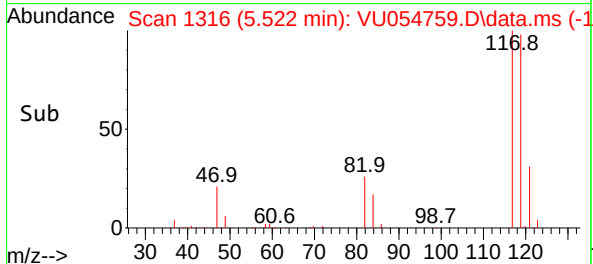
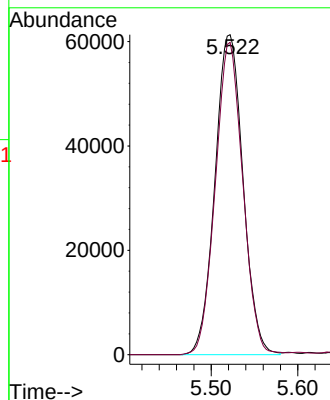
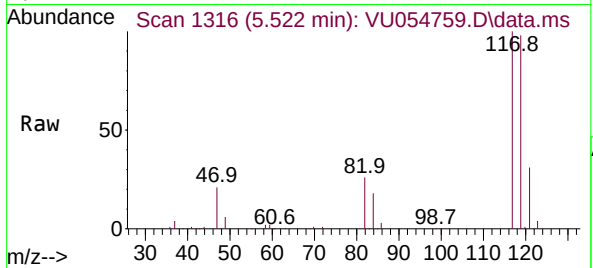




#31  
Carbon tetrachloride  
Concen: 5.268 ug/L  
RT: 5.522 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

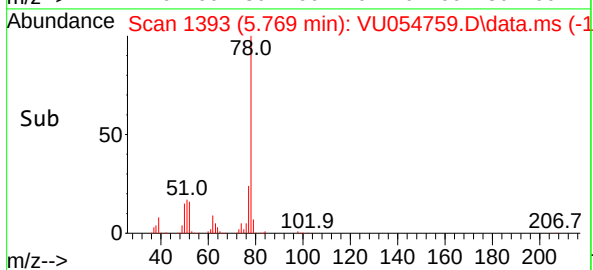
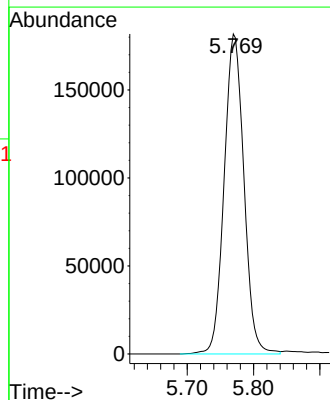
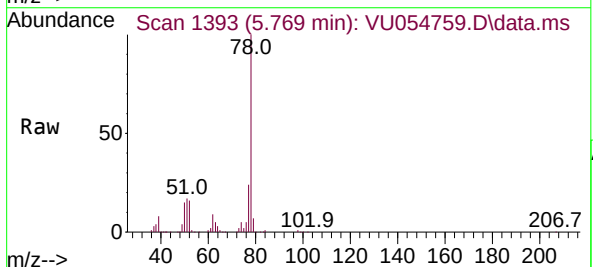
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

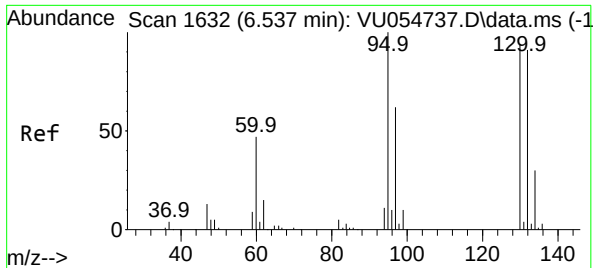
Tgt Ion:117 Resp: 138196  
Ion Ratio Lower Upper  
117 100  
119 95.3 76.8 115.2



#33  
Benzene  
Concen: 4.672 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 78 Resp: 376961



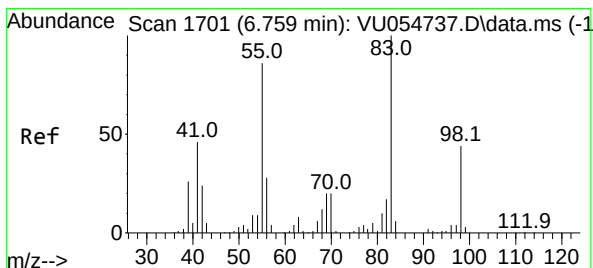
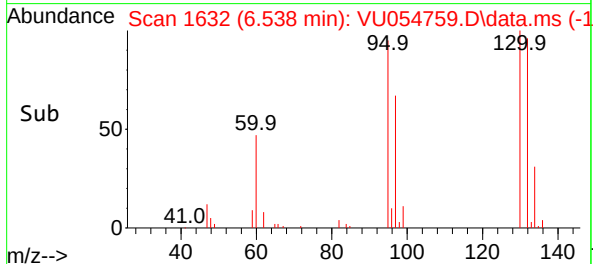
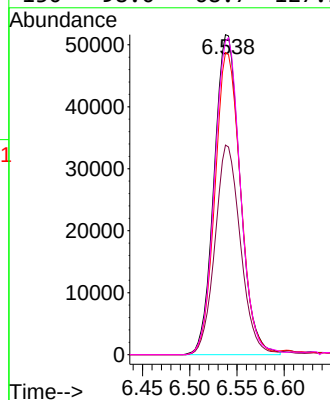
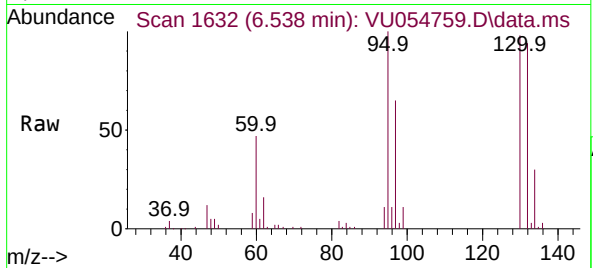


#34  
Trichloroethene  
Concen: 4.622 ug/L  
RT: 6.538 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

Tgt Ion: 95 Resp: 98618

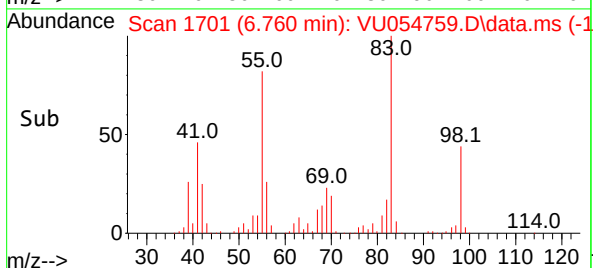
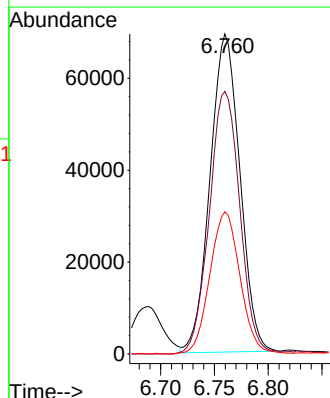
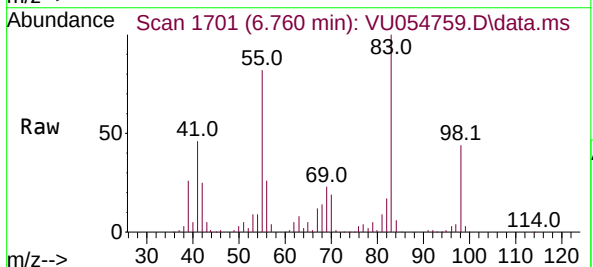
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.5  | 46.8  | 87.0  |
| 132 | 94.4  | 68.4  | 127.0 |
| 130 | 98.0  | 68.7  | 127.5 |



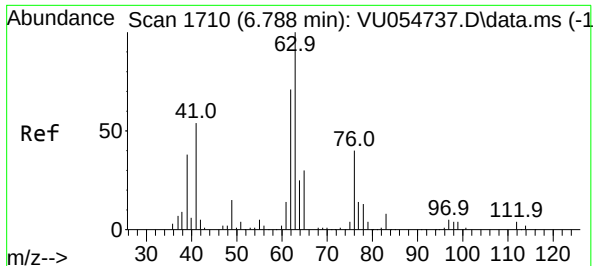
#35  
Methylcyclohexane  
Concen: 4.141 ug/L  
RT: 6.760 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 83 Resp: 133560

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 84.5  | 67.1  | 100.7 |
| 98  | 45.3  | 35.1  | 52.7  |







#37

1,2-Dichloropropane

Concen: 4.991 ug/L

RT: 6.789 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

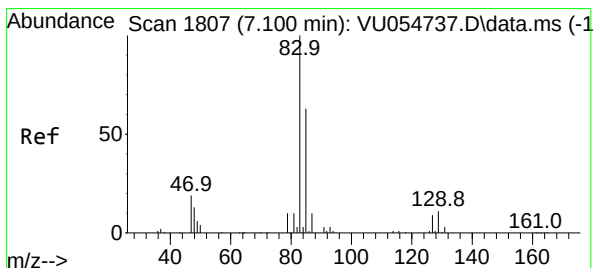
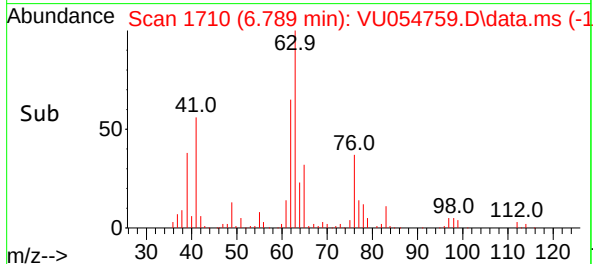
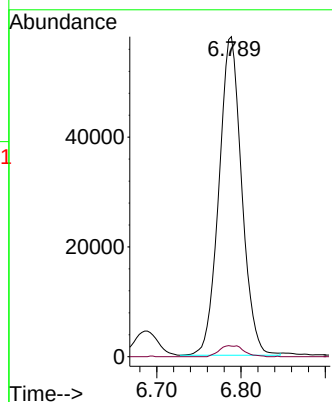
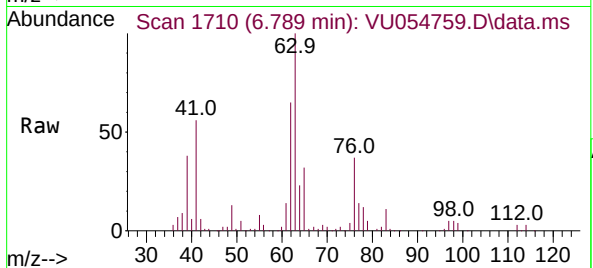
VSTD005088

Tgt Ion: 63 Resp: 108894

Ion Ratio Lower Upper

63 100

112 3.7 3.0 4.6



#38

Bromodichloromethane

Concen: 5.534 ug/L

RT: 7.100 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

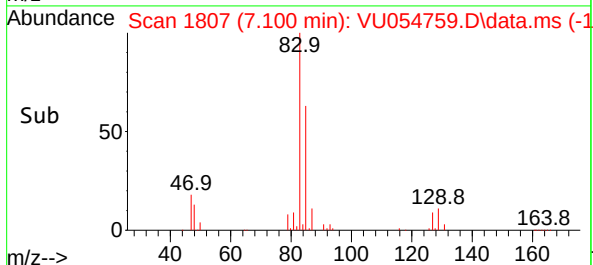
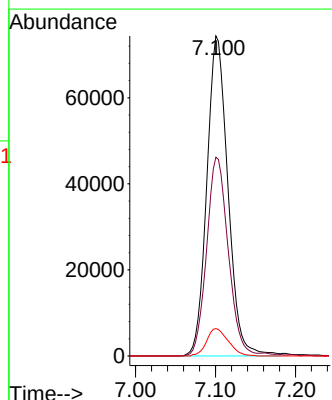
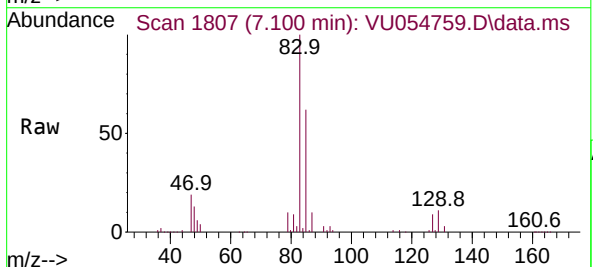
Tgt Ion: 83 Resp: 136675

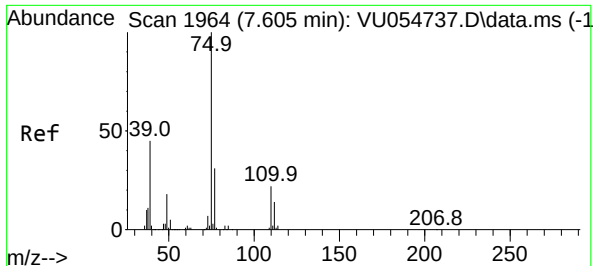
Ion Ratio Lower Upper

83 100

85 62.1 44.1 81.9

127 8.6 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 5.239 ug/L

RT: 7.605 min Scan# 1964

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

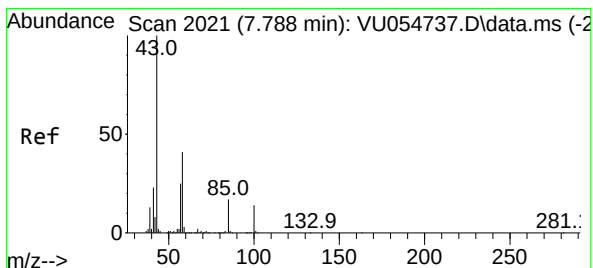
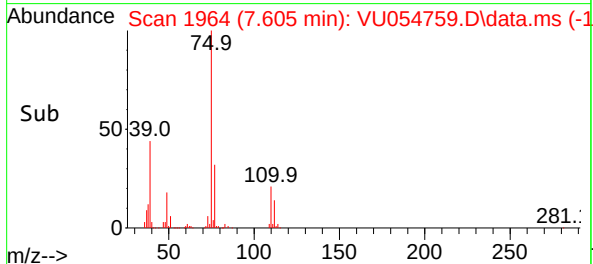
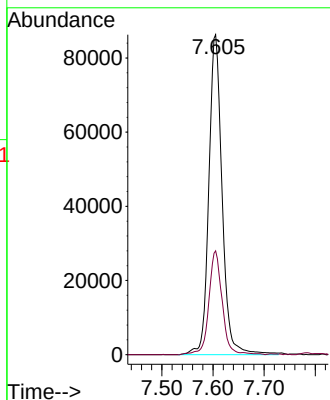
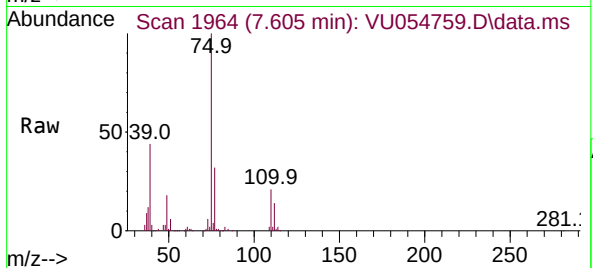
VSTD005088

Tgt Ion: 75 Resp: 156063

Ion Ratio Lower Upper

75 100

77 32.5 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 57.743 ug/L

RT: 7.789 min Scan# 2021

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

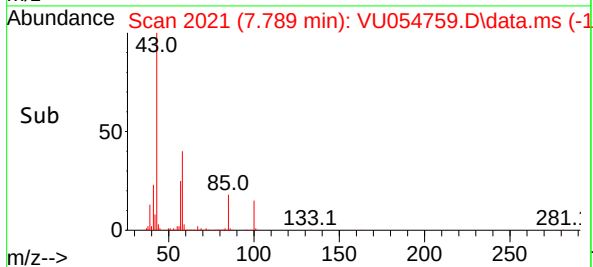
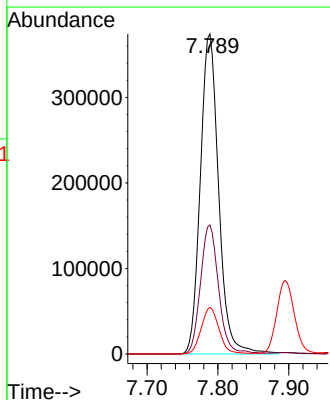
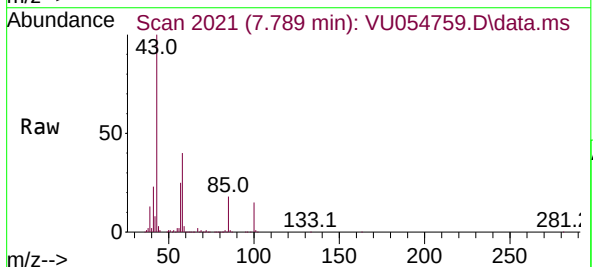
Tgt Ion: 43 Resp: 672295

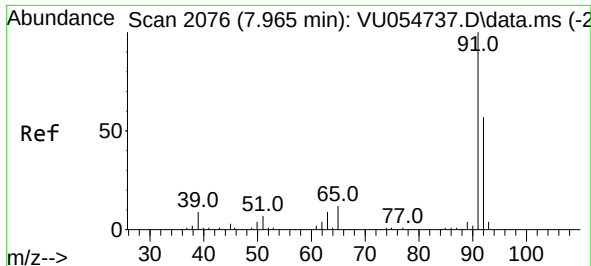
Ion Ratio Lower Upper

43 100

58 39.9 32.4 48.6

100 14.2 11.4 17.2





#42

Toluene

Concen: 5.016 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

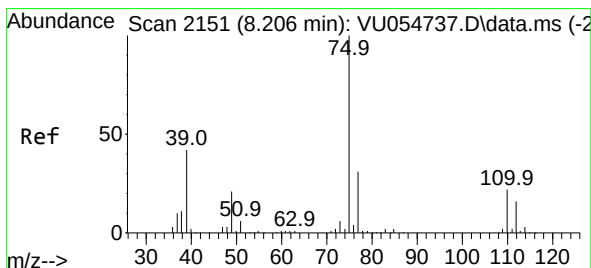
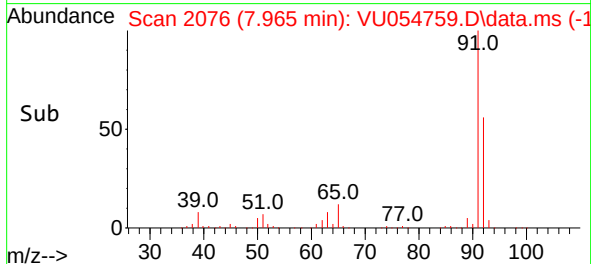
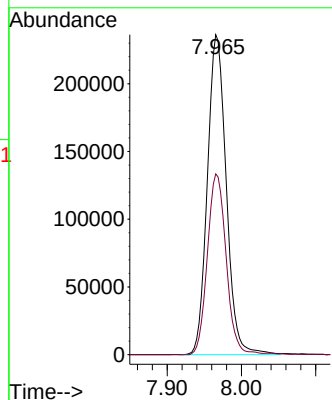
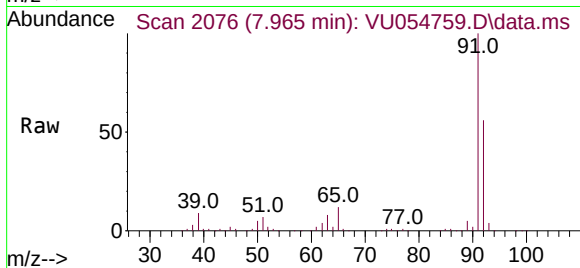
VSTD005088

Tgt Ion: 91 Resp: 416809

Ion Ratio Lower Upper

91 100

92 56.5 39.5 73.4



#44

trans-1,3-Dichloropropene

Concen: 5.404 ug/L

RT: 8.207 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU054759.D

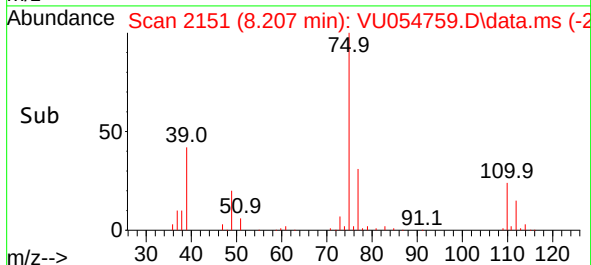
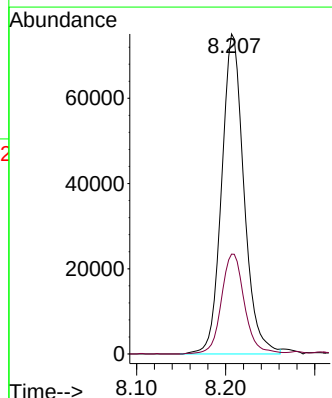
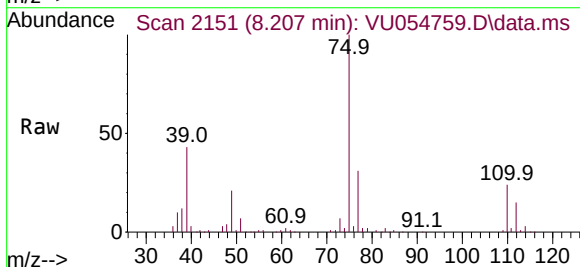
Acq: 05 Jul 2023 09:48

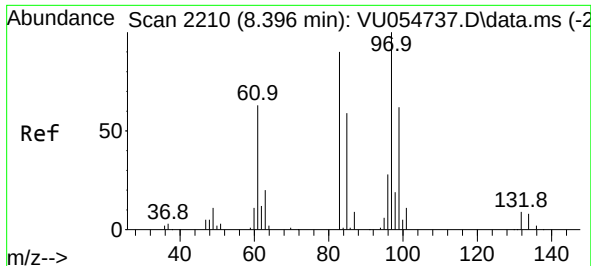
Tgt Ion: 75 Resp: 130636

Ion Ratio Lower Upper

75 100

77 31.2 21.3 39.6

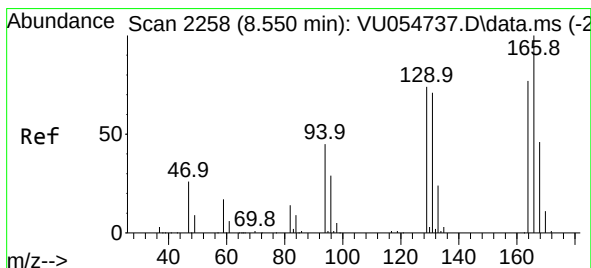
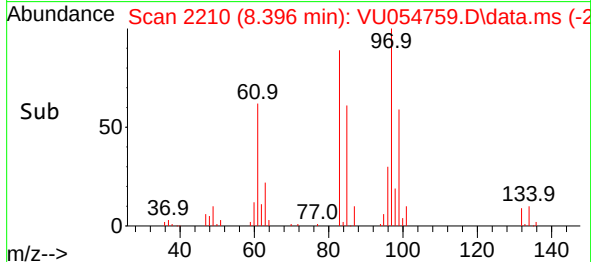
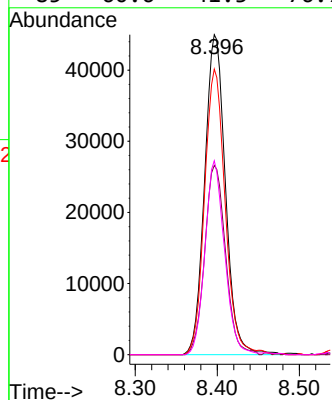
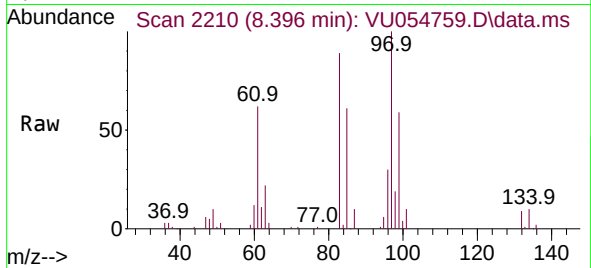




#45  
1,1,2-Trichloroethane  
Concen: 5.708 ug/L  
RT: 8.396 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

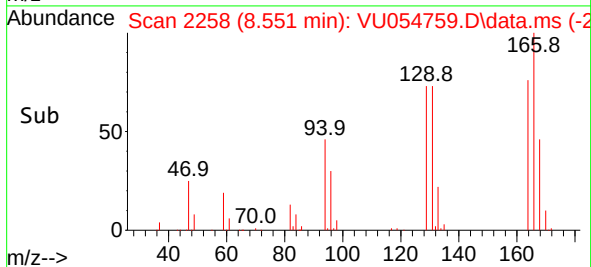
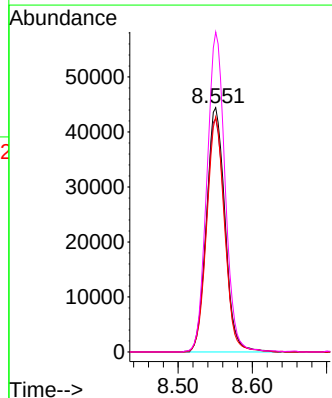
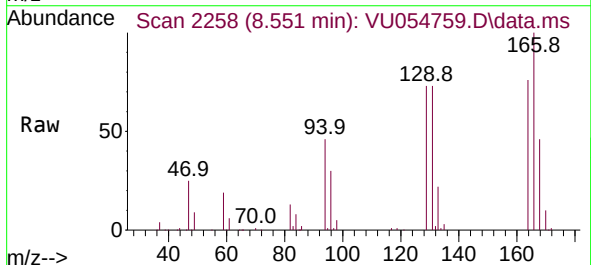
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

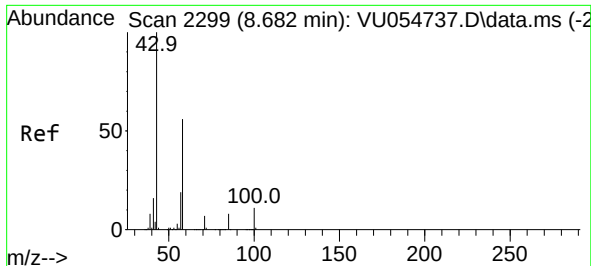
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 79228 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 59.1     | 43.0 80.0   |
| 83 89.3     | 63.8 118.6  |
| 85 60.6     | 41.3 76.7   |



#47  
Tetrachloroethene  
Concen: 4.716 ug/L  
RT: 8.551 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 77020 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 95.4    | 67.7  | 125.7 |
| 131 | 96.2    | 64.6  | 120.0 |
| 166 | 131.0   | 88.1  | 163.7 |

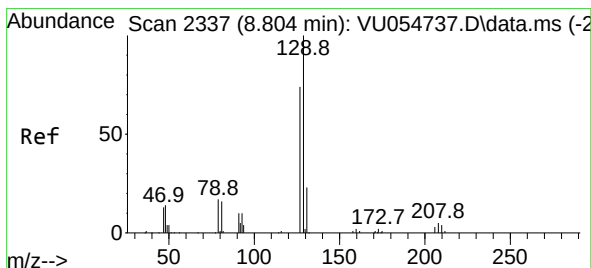
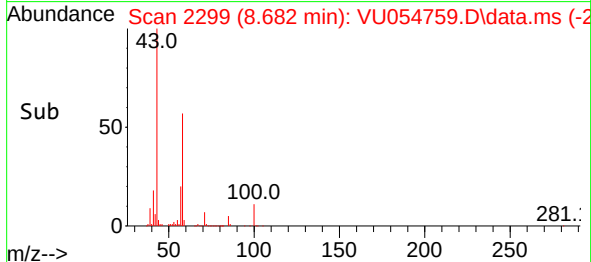
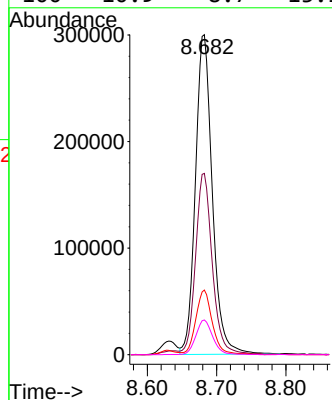
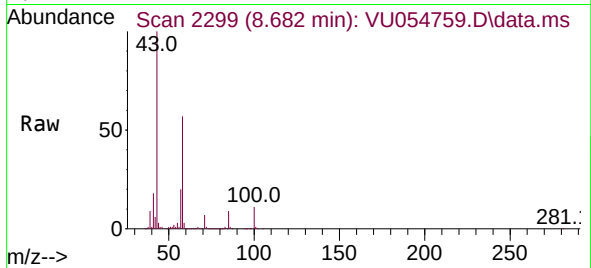




#48  
2-Hexanone  
Concen: 58.757 ug/L  
RT: 8.682 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

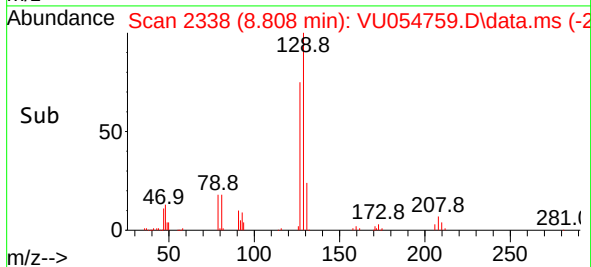
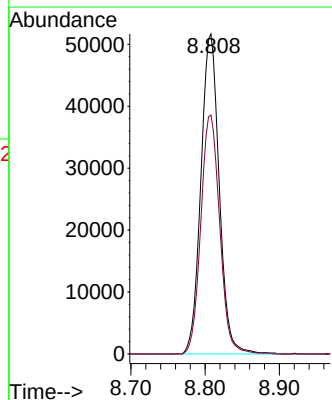
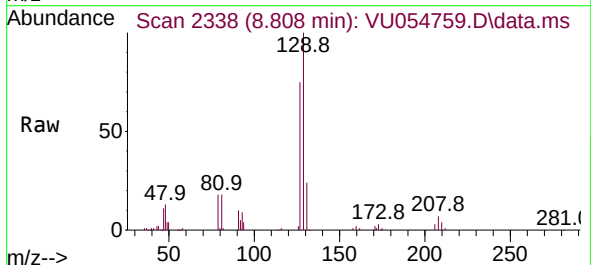
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

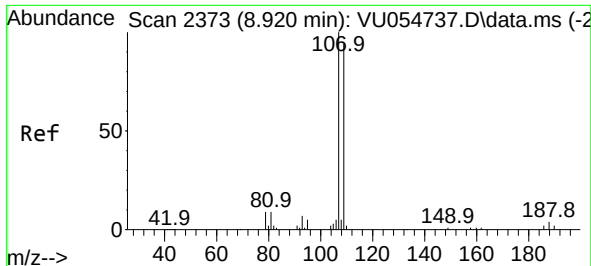
Tgt Ion: 43 Resp: 509728  
Ion Ratio Lower Upper  
43 100  
58 55.4 45.2 67.8  
57 19.9 15.8 23.6  
100 10.9 8.7 13.1



#49  
Dibromochloromethane  
Concen: 6.083 ug/L  
RT: 8.808 min Scan# 2338  
Delta R.T. 0.004 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 129 Resp: 88658  
Ion Ratio Lower Upper  
129 100  
127 74.6 53.2 98.8





#50

1,2-Dibromoethane

Concen: 5.487 ug/L

RT: 8.920 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005088

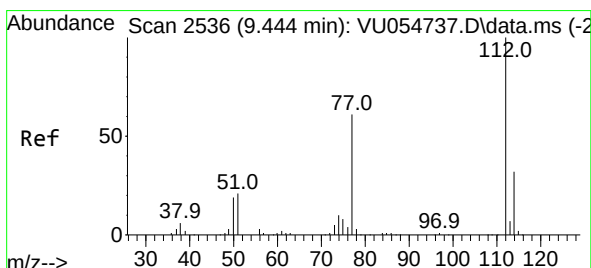
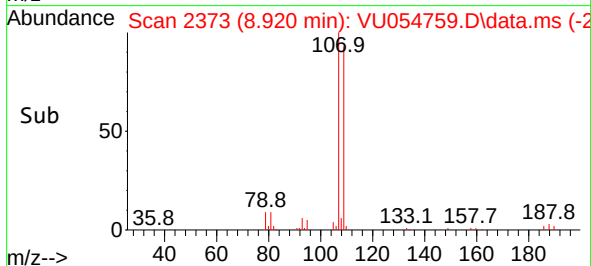
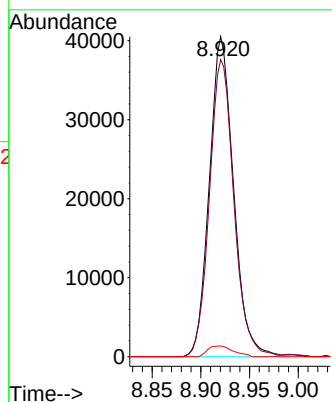
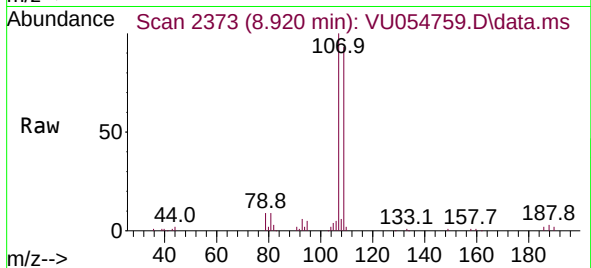
Tgt Ion:107 Resp: 69913

Ion Ratio Lower Upper

107 100

109 92.8 66.6 123.6

188 3.3 3.1 4.7



#51

Chlorobenzene

Concen: 4.990 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

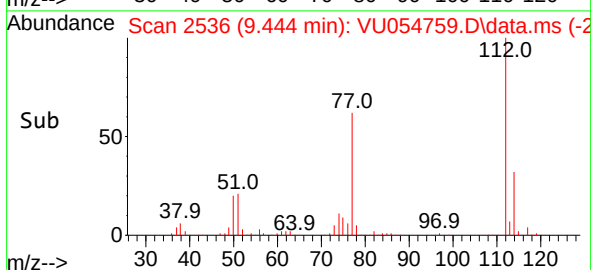
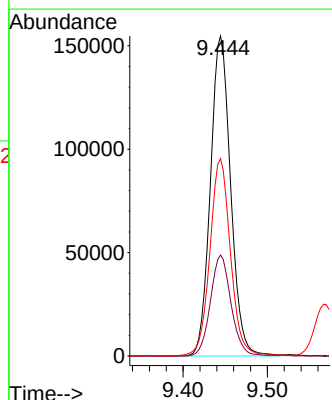
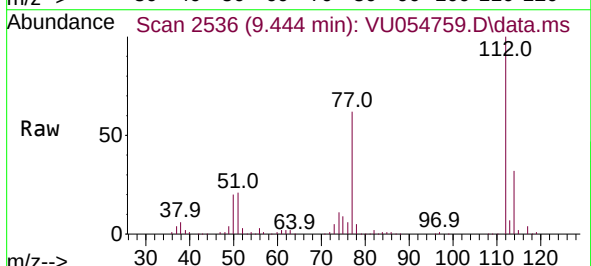
Tgt Ion:112 Resp: 258491

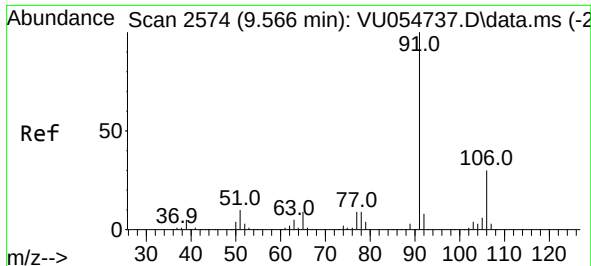
Ion Ratio Lower Upper

112 100

114 31.6 22.7 42.1

77 61.7 49.8 74.8

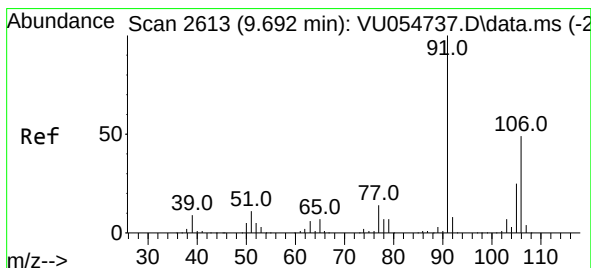
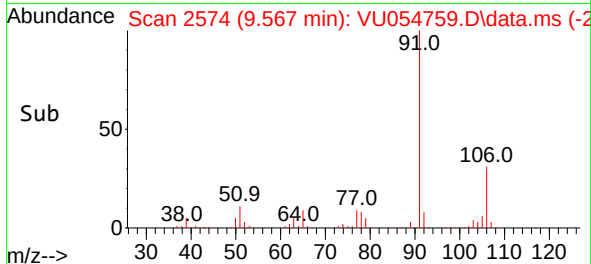
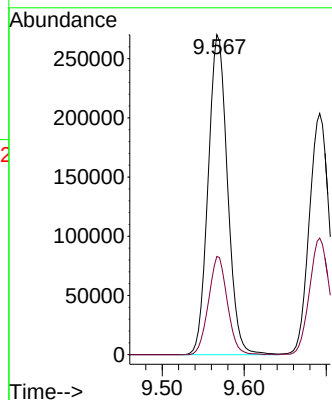
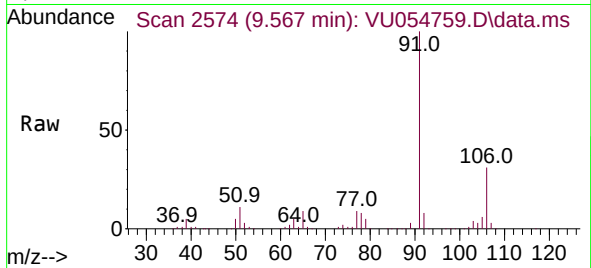




#52  
Ethylbenzene  
Concen: 4.877 ug/L  
RT: 9.567 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

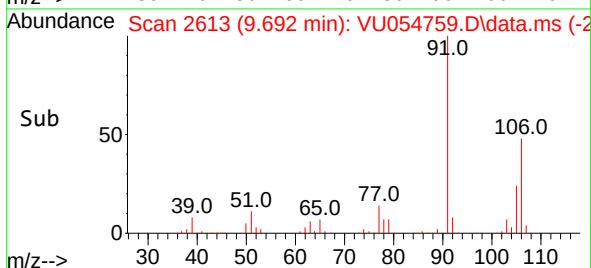
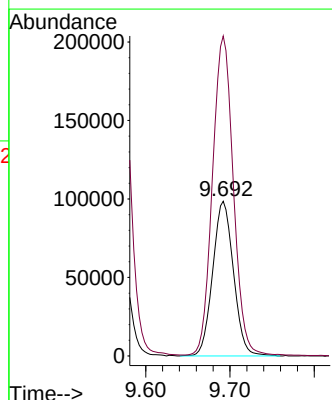
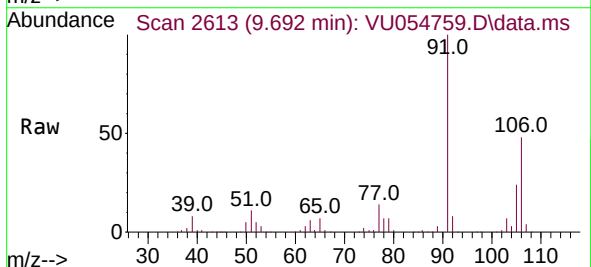
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

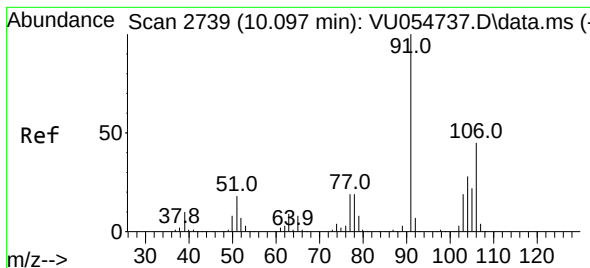
Tgt Ion: 91 Resp: 442605  
Ion Ratio Lower Upper  
91 100  
106 30.7 21.1 39.3



#53  
m,p-Xylene  
Concen: 5.063 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion:106 Resp: 168784  
Ion Ratio Lower Upper  
106 100  
91 206.9 147.0 273.0





#54

o-Xylene

Concen: 5.076 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

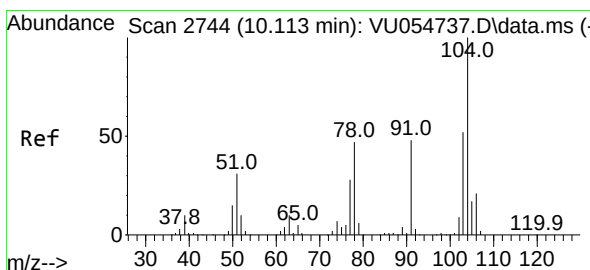
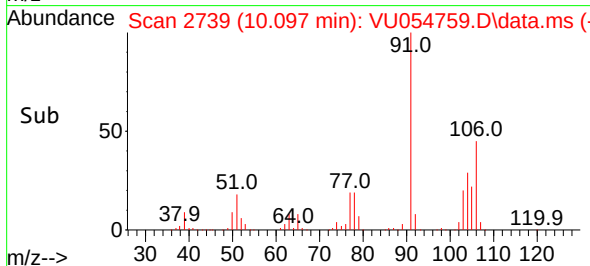
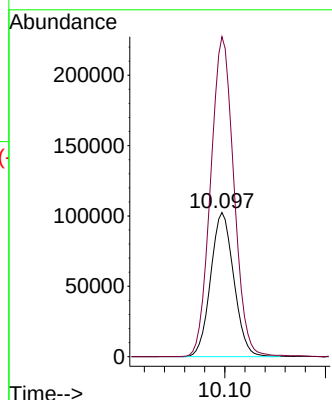
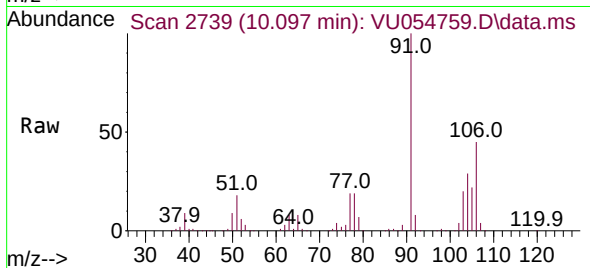
VSTD005088

Tgt Ion:106 Resp: 163663

Ion Ratio Lower Upper

106 100

91 222.0 154.5 286.9



#55

Styrene

Concen: 5.339 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.000 min

Lab File: VU054759.D

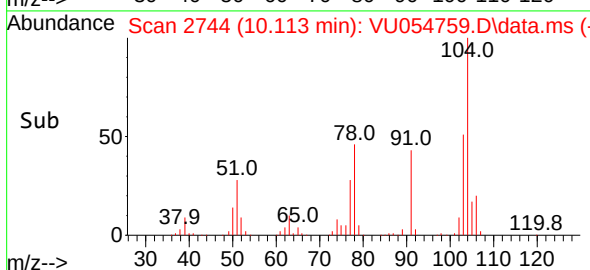
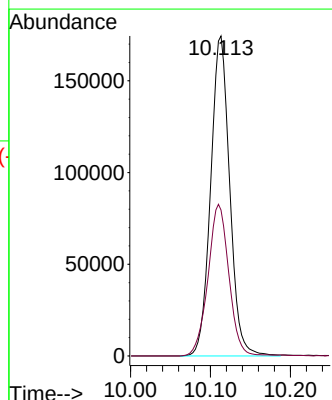
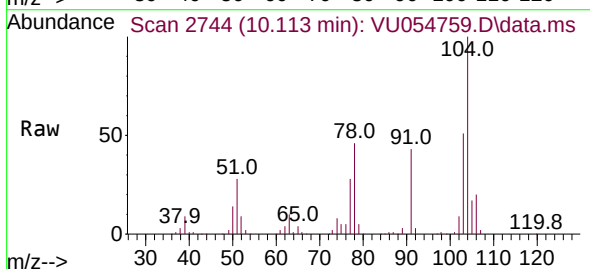
Acq: 05 Jul 2023 09:48

Tgt Ion:104 Resp: 288883

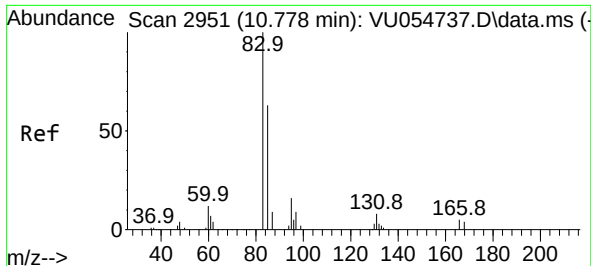
Ion Ratio Lower Upper

104 100

78 45.6 33.0 61.4



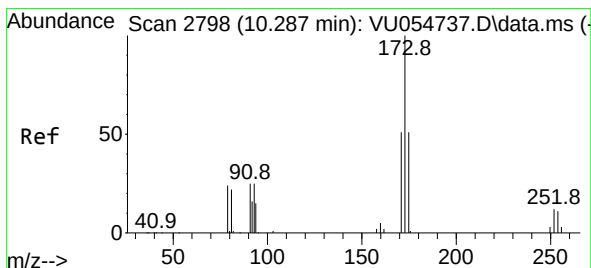
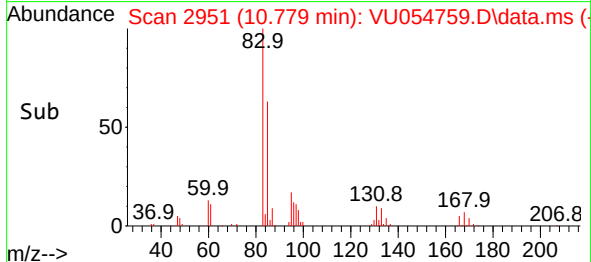
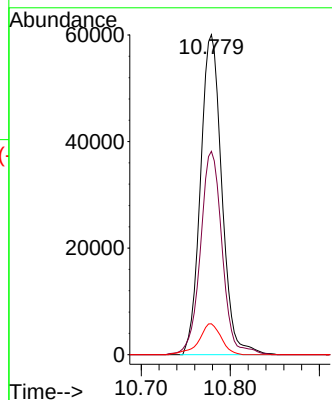
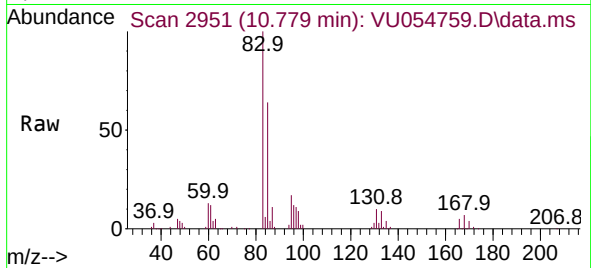




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.658 ug/L  
RT: 10.779 min Scan# 2951  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

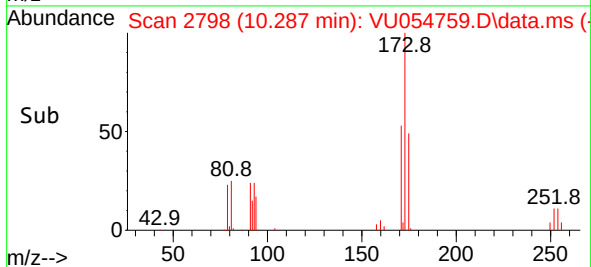
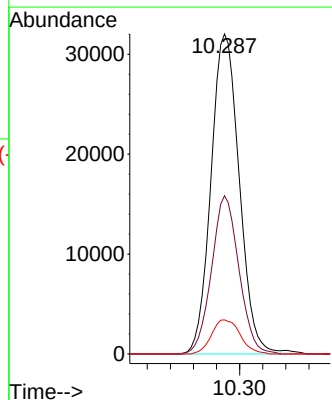
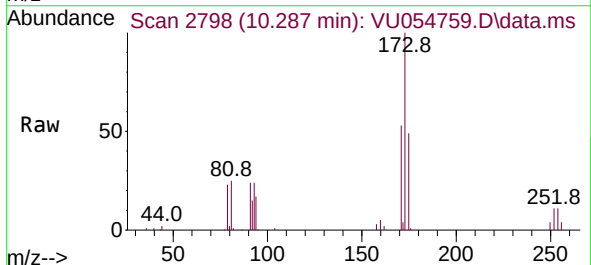
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

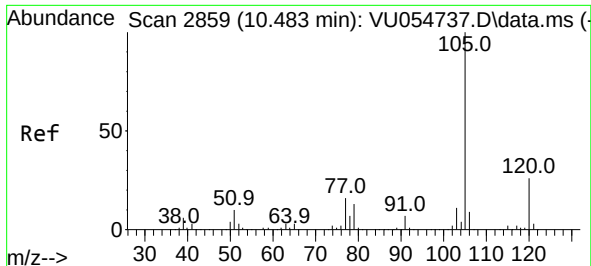
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 99749 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.5  | 44.2  | 82.2  |
| 131      | 9.7   | 7.0   | 10.6  |



#59  
Bromoform  
Concen: 6.477 ug/L  
RT: 10.287 min Scan# 2798  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 54299 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 48.0  | 39.4  | 59.0  |
| 254      | 10.8  | 8.6   | 12.8  |

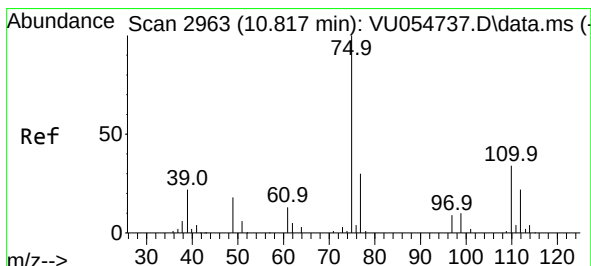
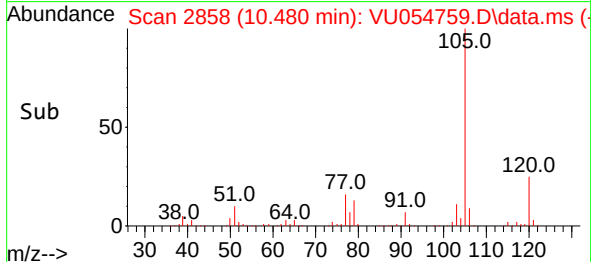
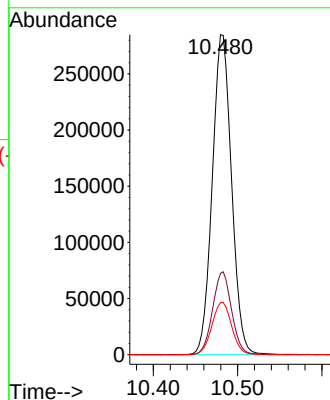
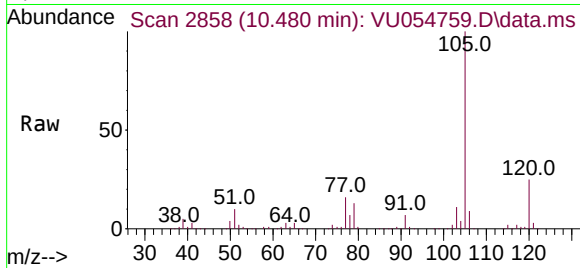




#60  
Isopropylbenzene  
Concen: 5.288 ug/L  
RT: 10.480 min Scan# 2859  
Delta R.T. -0.003 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

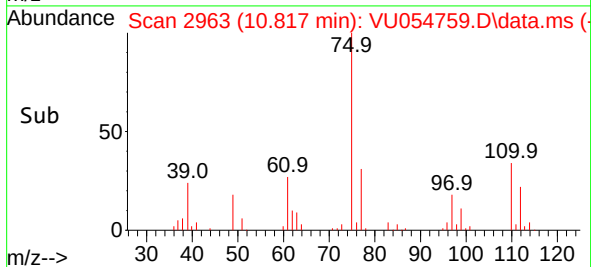
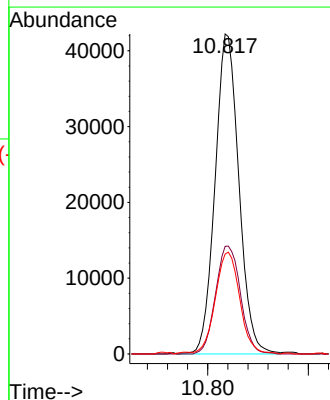
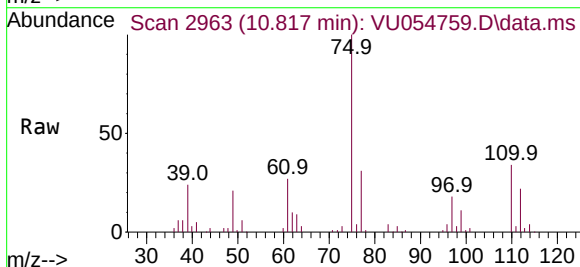
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

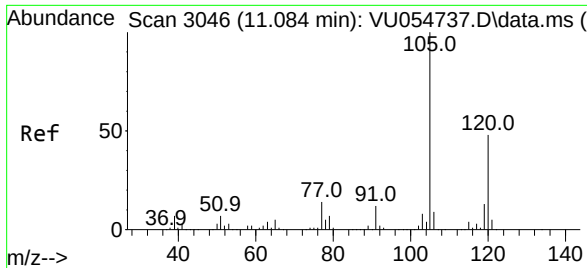
Tgt Ion:105 Resp: 451733  
Ion Ratio Lower Upper  
105 100  
120 25.5 20.9 31.3  
77 16.9 13.2 19.8



#61  
1,2,3-Trichloropropane  
Concen: 5.880 ug/L  
RT: 10.817 min Scan# 2963  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 75 Resp: 69390  
Ion Ratio Lower Upper  
75 100  
110 35.2 28.0 42.0  
77 32.9 25.4 38.2

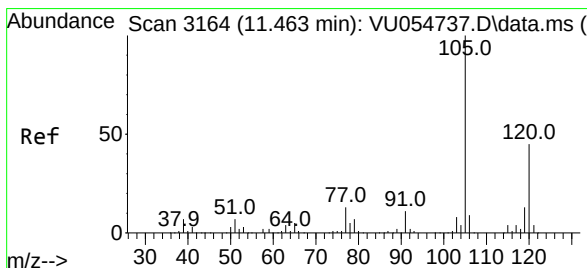
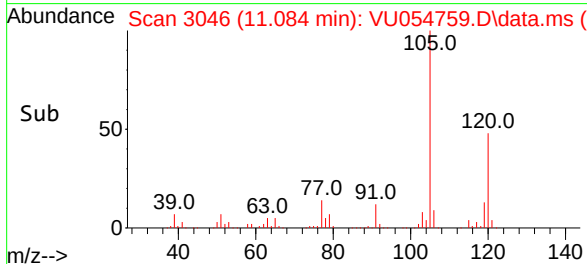
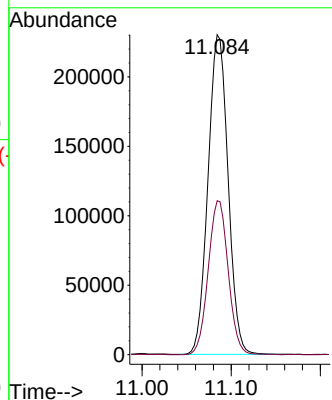
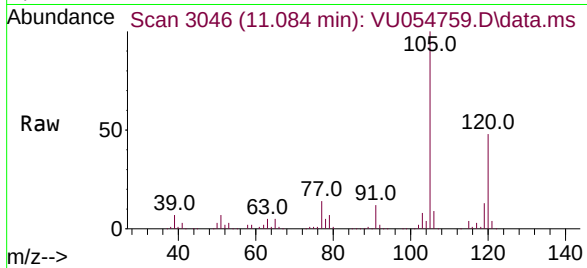




#62  
1,3,5-Trimethylbenzene  
Concen: 5.156 ug/L  
RT: 11.084 min Scan# 3046  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

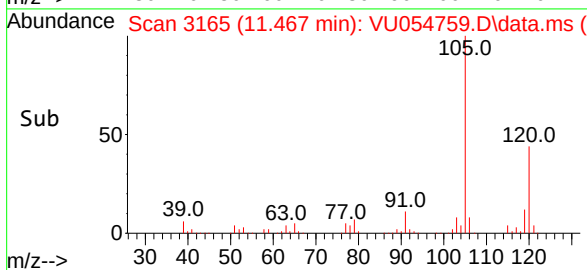
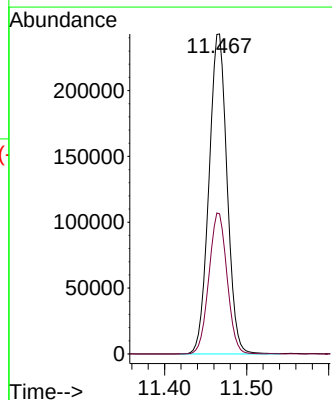
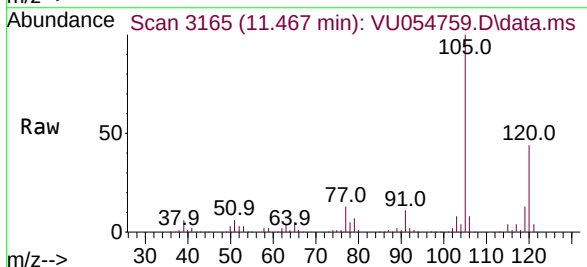
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

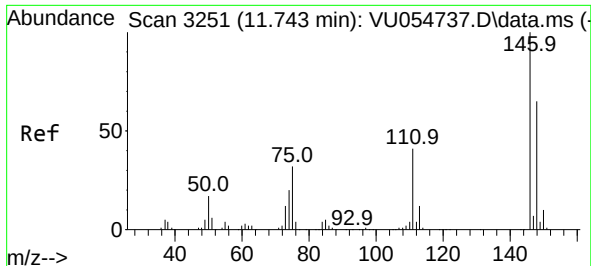
Tgt Ion:105 Resp: 359341  
Ion Ratio Lower Upper  
105 100  
120 48.0 37.9 56.9



#63  
1,2,4-Trimethylbenzene  
Concen: 5.270 ug/L  
RT: 11.467 min Scan# 3165  
Delta R.T. 0.004 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion:105 Resp: 373074  
Ion Ratio Lower Upper  
105 100  
120 44.2 35.4 53.0

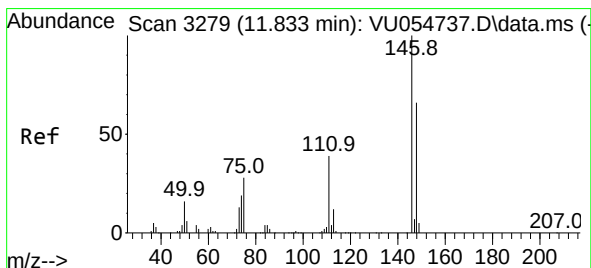
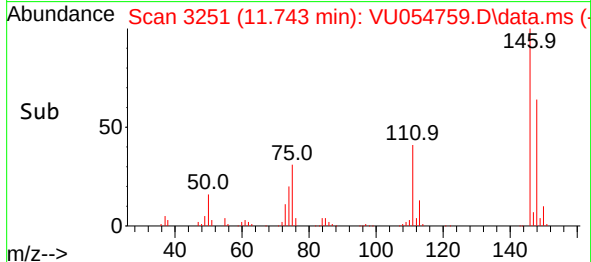
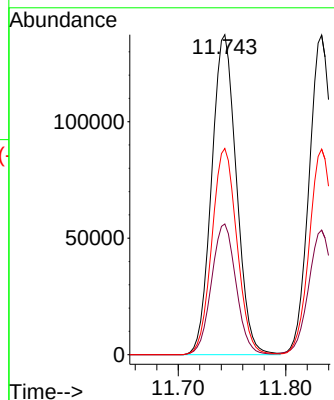
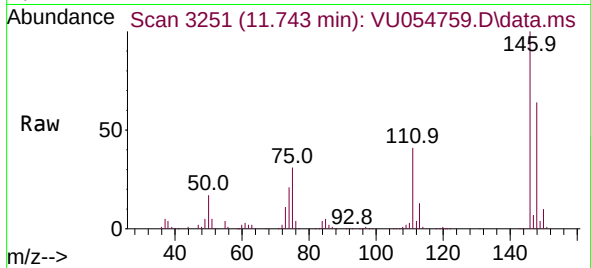




#64  
1,3-Dichlorobenzene  
Concen: 5.511 ug/L  
RT: 11.743 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

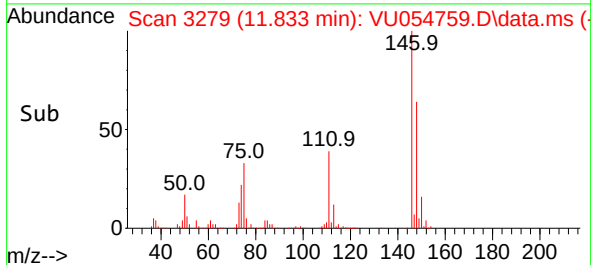
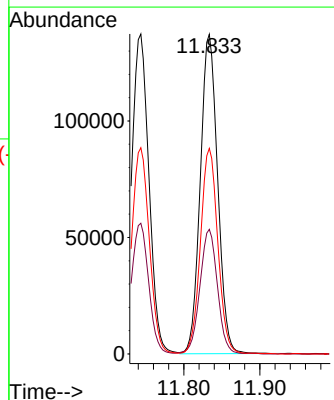
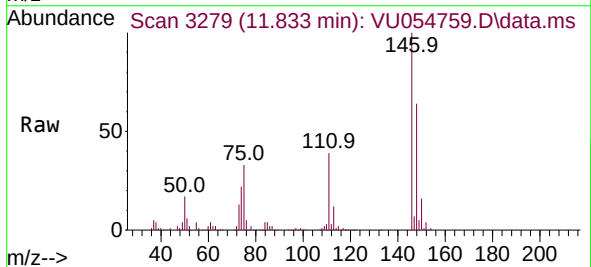
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

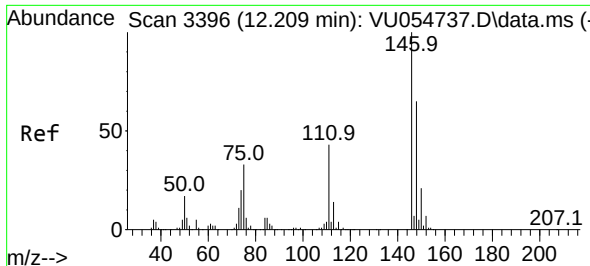
Tgt Ion:146 Resp: 220071  
Ion Ratio Lower Upper  
146 100  
111 40.9 28.9 53.7  
148 64.5 44.0 81.8



#65  
1,4-Dichlorobenzene  
Concen: 5.415 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion:146 Resp: 216984  
Ion Ratio Lower Upper  
146 100  
111 39.0 28.0 52.0  
148 64.3 44.7 83.1

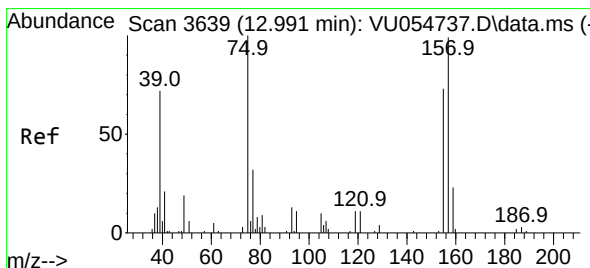
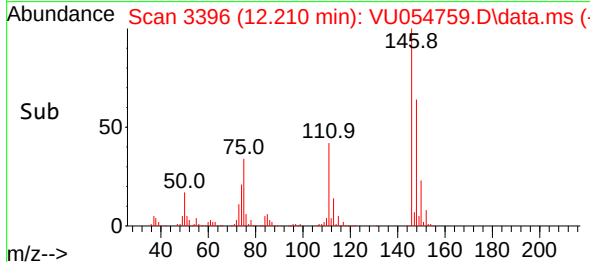
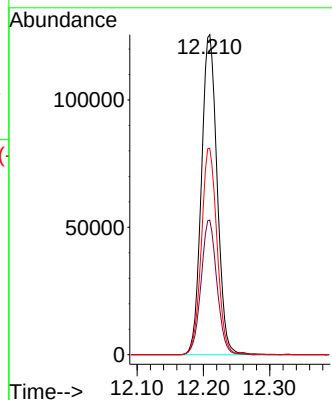
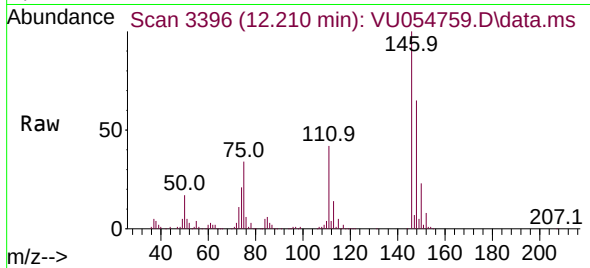




#67  
1,2-Dichlorobenzene  
Concen: 5.630 ug/L  
RT: 12.210 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

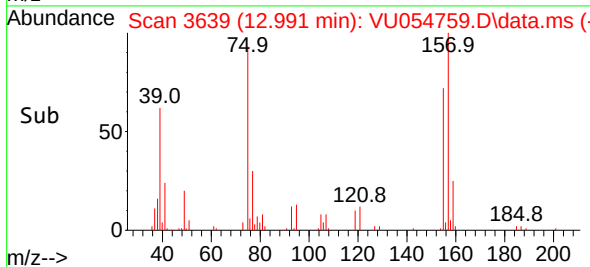
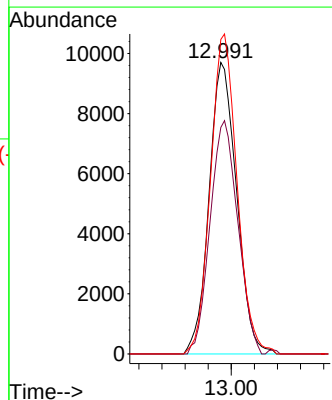
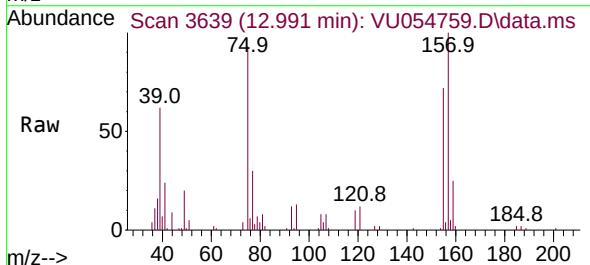
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005088

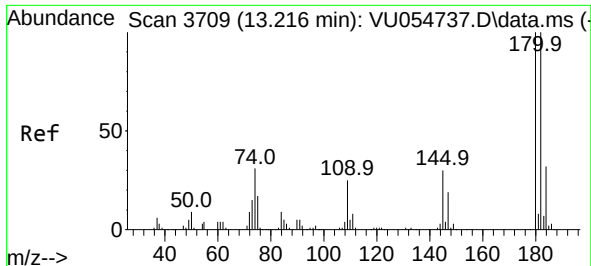
Tgt Ion:146 Resp: 206768  
Ion Ratio Lower Upper  
146 100  
111 42.1 34.5 51.7  
148 64.5 50.9 76.3



#68  
1,2-Dibromo-3-chloropropane  
Concen: 6.201 ug/L  
RT: 12.991 min Scan# 3639  
Delta R.T. 0.000 min  
Lab File: VU054759.D  
Acq: 05 Jul 2023 09:48

Tgt Ion: 75 Resp: 16082  
Ion Ratio Lower Upper  
75 100  
155 77.7 65.7 98.5  
157 107.9 84.2 126.2





#69

1,3,5-Trichlorobenzene

Concen: 5.544 ug/L

RT: 13.216 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005088

Tgt Ion:180 Resp: 167036

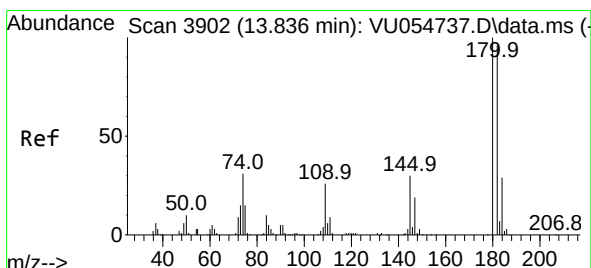
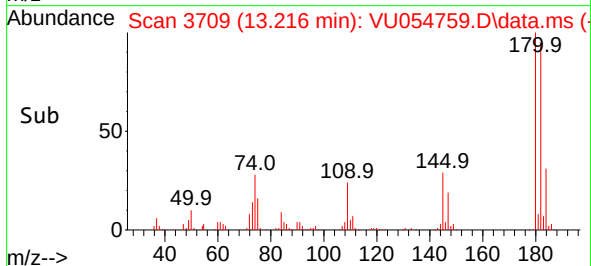
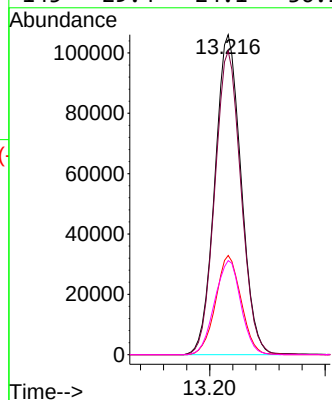
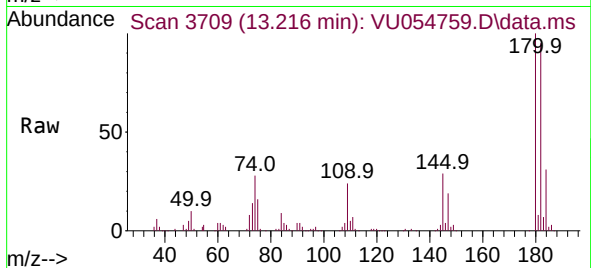
Ion Ratio Lower Upper

180 100

182 95.0 75.0 112.6

184 30.1 24.1 36.1

145 29.4 24.1 36.1



#70

1,2,4-trichlorobenzene

Concen: 5.600 ug/L

RT: 13.837 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

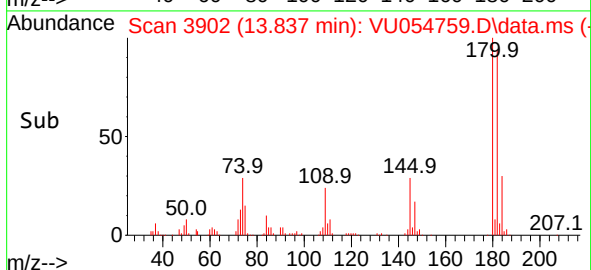
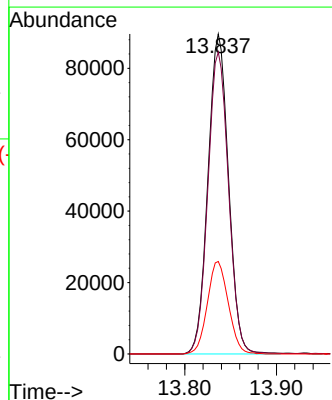
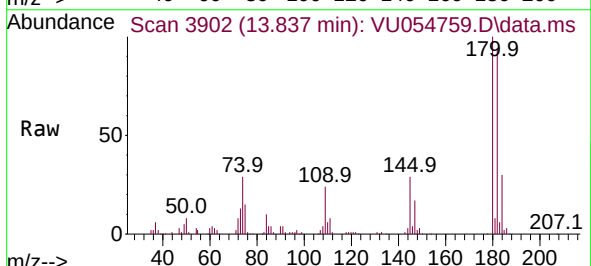
Tgt Ion:180 Resp: 139505

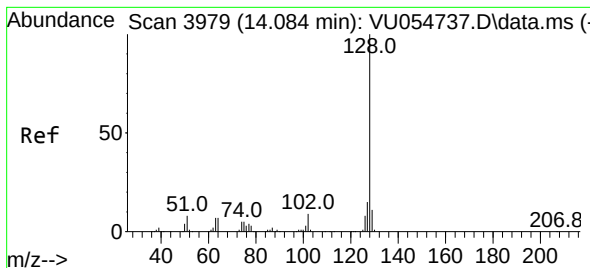
Ion Ratio Lower Upper

180 100

182 95.2 76.6 114.8

145 29.5 24.0 36.0





#71

Naphthalene

Concen: 5.560 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005088

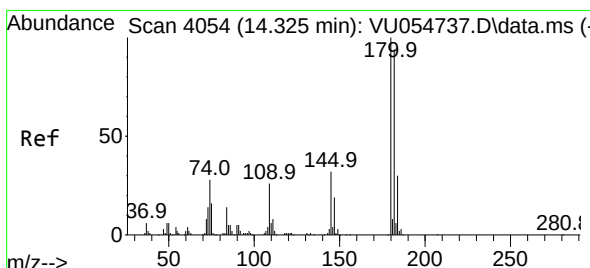
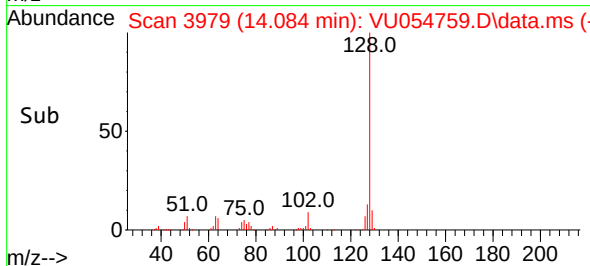
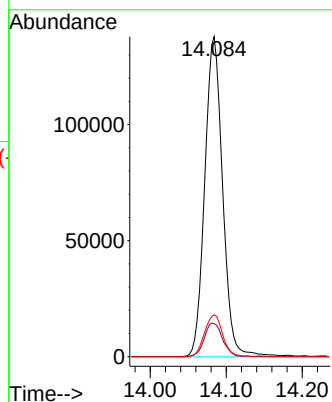
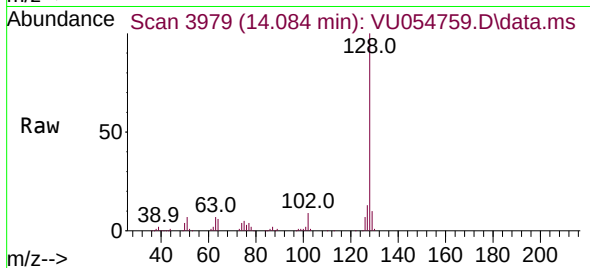
Tgt Ion:128 Resp: 225235

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 13.3 10.6 15.8



#72

1,2,3-Trichlorobenzene

Concen: 5.953 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.000 min

Lab File: VU054759.D

Acq: 05 Jul 2023 09:48

Tgt Ion:180 Resp: 127413

Ion Ratio Lower Upper

180 100

182 94.0 75.4 113.2

145 31.8 26.0 39.0

