

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110722\  
 Data File : VU051772.D  
 Acq On : 07 Nov 2022 16:47  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050119

Quant Time: Nov 08 00:39:51 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM102022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 08 00:38:03 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 513206   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 494328   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 271184   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 197651   | 48.537   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 97.080%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 172745   | 51.492   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 102.980% |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 334400   | 48.240   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.480%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 281655   | 98.119   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 98.120%  |
| 24) Chloroform-d              | 5.063   | 84    | 363423   | 48.589   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.180%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 216329   | 46.523   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.040%  |
| 32) Benzene-d6                | 5.726   | 84    | 752247   | 56.194   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 112.380% |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 237563   | 54.040   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 108.080% |
| 41) Toluene-d8                | 7.896   | 98    | 687925   | 56.379   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 112.760% |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 98512    | 52.628   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 105.260% |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 215764   | 111.746  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 111.750% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.754  | 84    | 362876   | 47.517   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.040%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 254892   | 50.210   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 100.420% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 169763   | 37.850   | ug/L   | 100      |
| 3) Chloromethane              | 1.523   | 50    | 196665   | 34.306   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.600   | 62    | 230301   | 40.591   | ug/L   | 95       |
| 6) Bromomethane               | 1.851   | 94    | 47115    | 15.977   | ug/L   | 100      |
| 8) Chloroethane               | 1.932   | 64    | 150273   | 44.319   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 272765   | 41.554   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 169137   | 42.157   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 165937   | 43.629   | ug/L   | 96       |
| 13) Acetone                   | 2.623   | 43    | 220058   | 67.277   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.790   | 76    | 485637   | 39.203   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.944   | 43    | 224096   | 45.302   | ug/L   | 99       |
| 16) Methylene chloride        | 3.044   | 84    | 242591   | 48.592   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 176978   | 45.245   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.362   | 73    | 555293   | 49.644   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.867   | 63    | 348480   | 45.168   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 208538   | 48.867   | ug/L   | 94       |
| 22) 2-Butanone                | 4.700   | 43    | 327030   | 86.148   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.973   | 128   | 113010   | 47.200   | ug/L   | 95       |
| 25) Chloroform                | 5.086   | 83    | 366745   | 46.108   | ug/L   | 99       |

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 Sample : VSTDCCC050EC  
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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Quant Time: Nov 08 00:39:51 2022  
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 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 08 00:38:03 2022  
 Response via : Initial Calibration

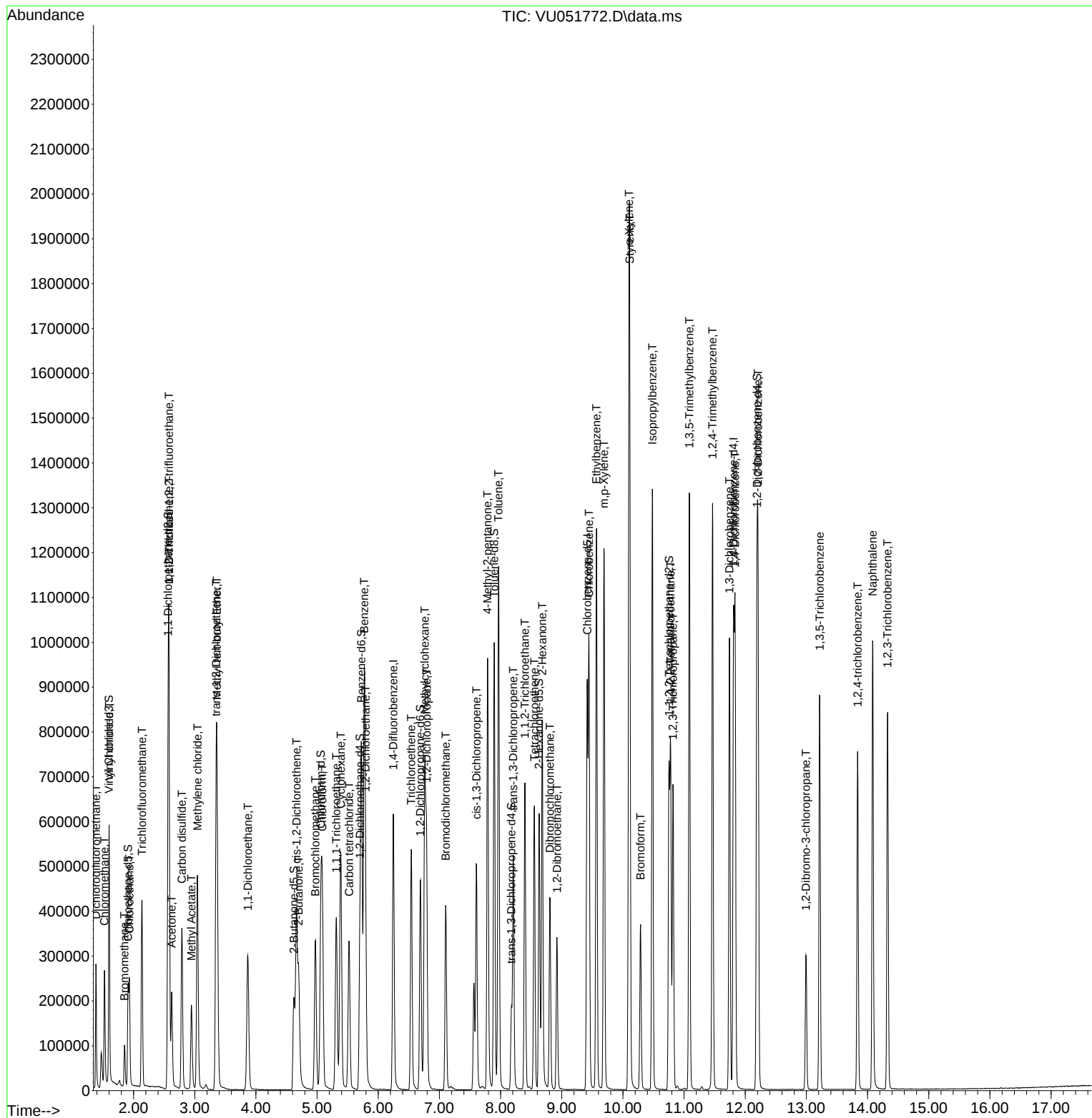
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 278800   | 45.141  | ug/L  | 100      |
| 29) Cyclohexane               | 5.388  | 56   | 259895   | 50.042  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 280744   | 47.883  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.523  | 117  | 231821   | 46.828  | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 823067   | 50.933  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 191361   | 49.073  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.761  | 83   | 282966   | 50.725  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 223639   | 50.464  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.102  | 83   | 273692   | 48.514  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 311753   | 53.357  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 602714   | 101.786 | ug/L  | 99       |
| 42) Toluene                   | 7.967  | 91   | 875846   | 52.815  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 297582   | 52.336  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 219779   | 49.690  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 147333   | 50.617  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.681  | 43   | 484618   | 95.776  | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.806  | 129  | 225901   | 49.900  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 228122   | 50.331  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.446  | 112  | 544056   | 50.099  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.568  | 91   | 875980   | 52.382  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.693  | 106  | 349397   | 54.205  | ug/L  | 98       |
| 54) o-Xylene                  | 10.099 | 106  | 340451   | 53.247  | ug/L  | 96       |
| 55) Styrene                   | 10.111 | 104  | 609137   | 54.824  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 388408   | 46.021  | ug/L  | 100      |
| 59) Bromoform                 | 10.288 | 173  | 168772   | 44.685  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 295279   | 42.016  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.481 | 105  | 852119   | 50.036  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 712978   | 49.284  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 715408   | 50.222  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 417867   | 48.069  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 426907   | 47.753  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 426506   | 47.100  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 79185    | 41.747  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 280757   | 48.145  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 232772   | 51.846  | ug/L  | 98       |
| 71) Naphthalene               | 14.082 | 128  | 813282   | 56.596  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 265191   | 55.025  | ug/L  | 99       |

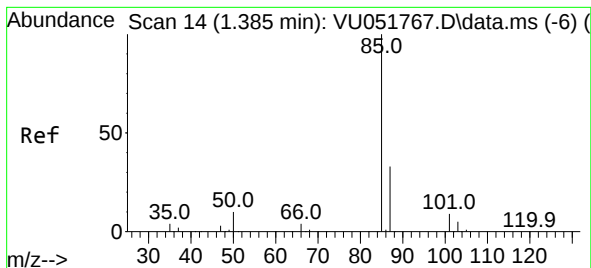
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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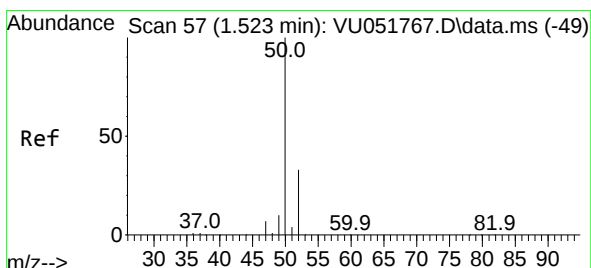
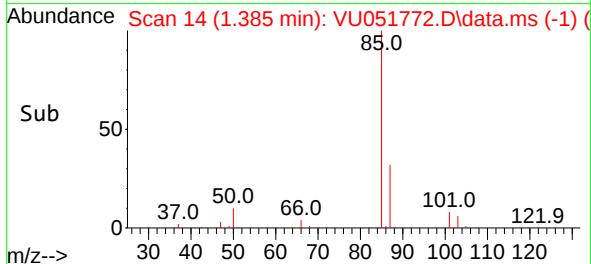
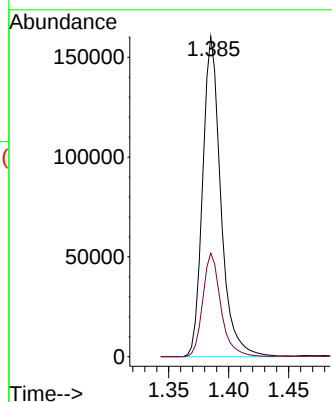
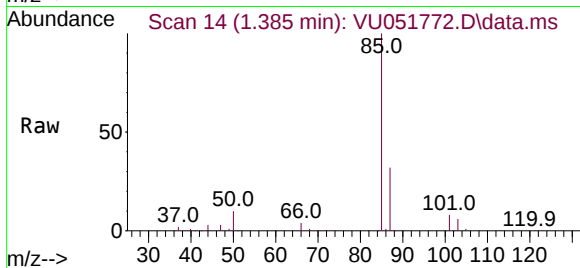




#2  
Dichlorodifluoromethane  
Concen: 37.850 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

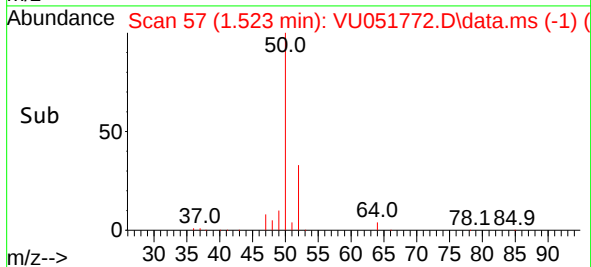
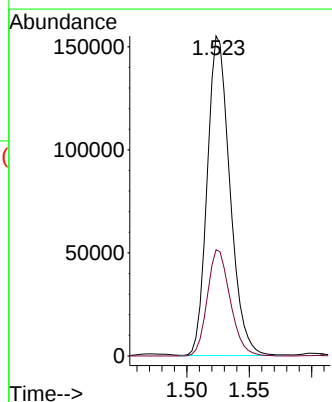
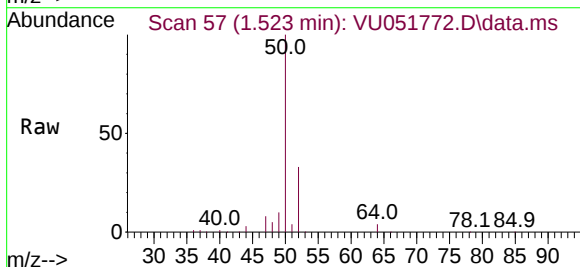
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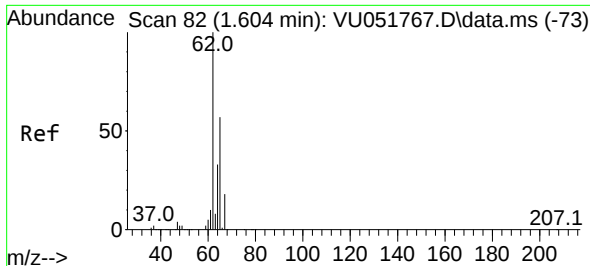
Tgt Ion: 85 Resp: 169763  
Ion Ratio Lower Upper  
85 100  
87 32.2 25.7 38.5



#3  
Chloromethane  
Concen: 34.306 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 50 Resp: 196665  
Ion Ratio Lower Upper  
50 100  
52 33.2 24.1 44.8

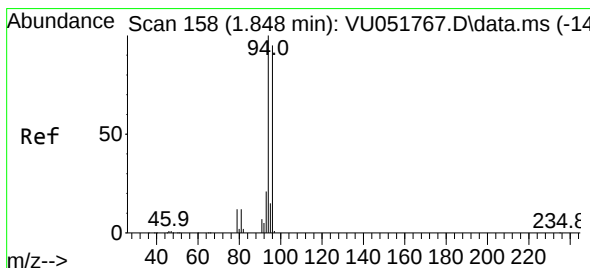
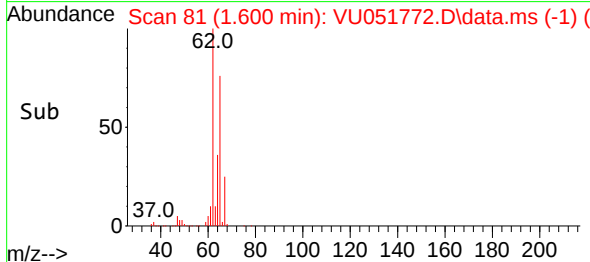
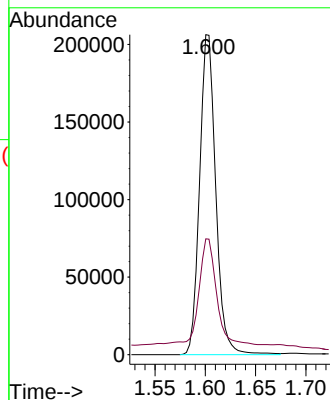
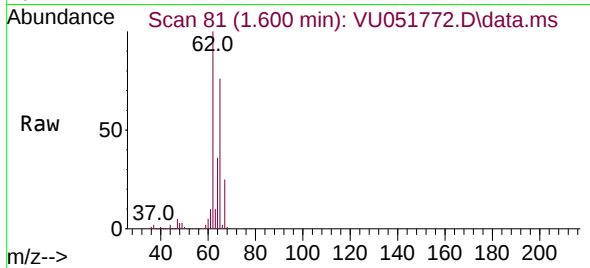




#5  
 Vinyl chloride  
 Concen: 40.591 ug/L  
 RT: 1.600 min Scan# 81  
 Delta R.T. -0.003 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47

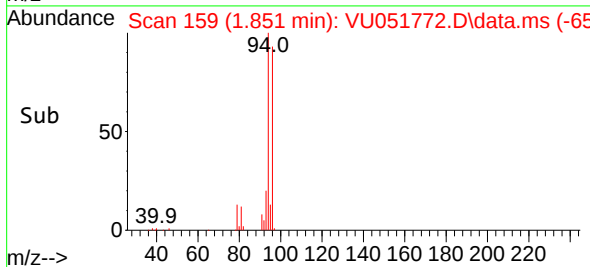
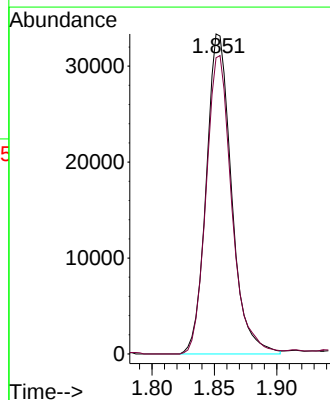
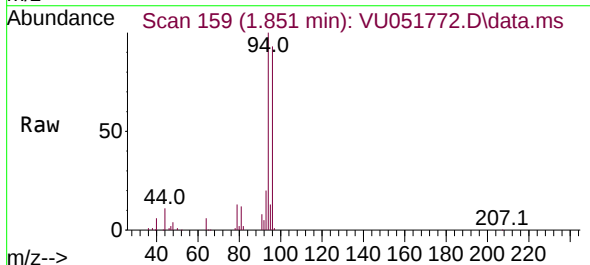
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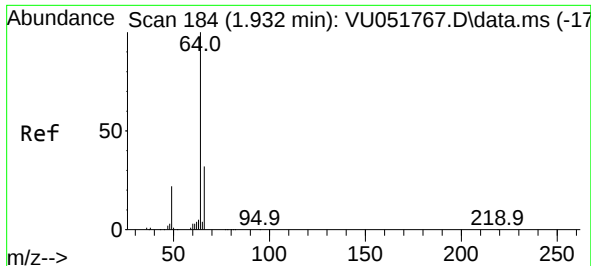
Tgt Ion: 62 Resp: 230301  
 Ion Ratio Lower Upper  
 62 100  
 64 36.2 23.2 43.2



#6  
 Bromomethane  
 Concen: 15.977 ug/L  
 RT: 1.851 min Scan# 159  
 Delta R.T. 0.003 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47

Tgt Ion: 94 Resp: 47115  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 64.5 119.9

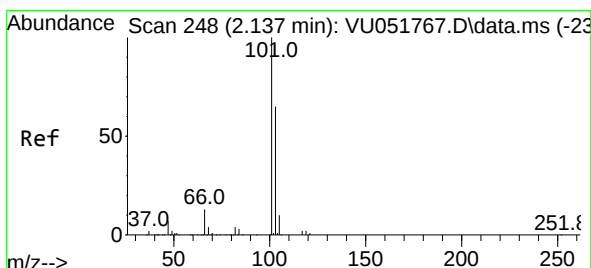
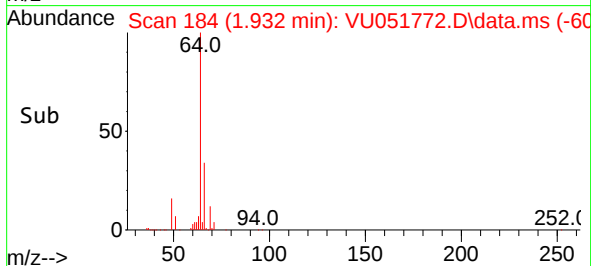
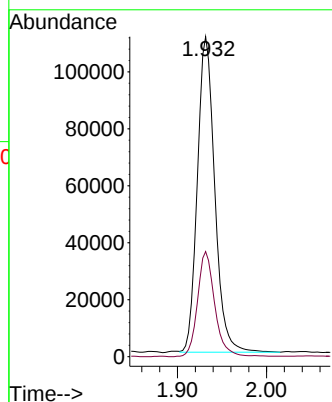
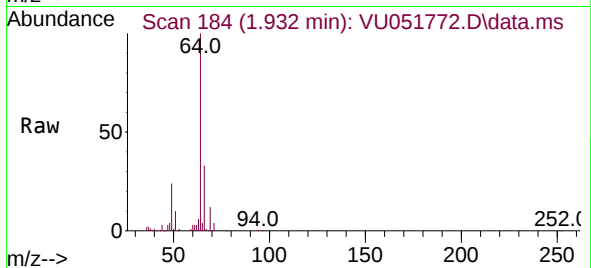




#8  
Chloroethane  
Concen: 44.319 ug/L  
RT: 1.932 min Scan# 184  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

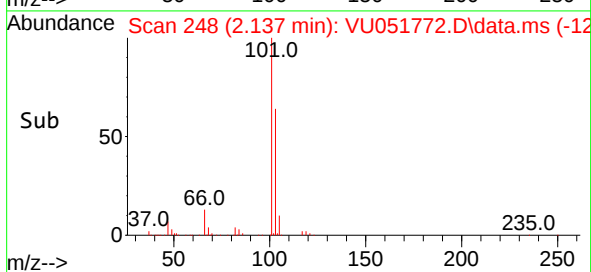
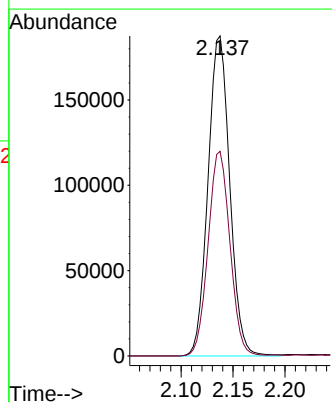
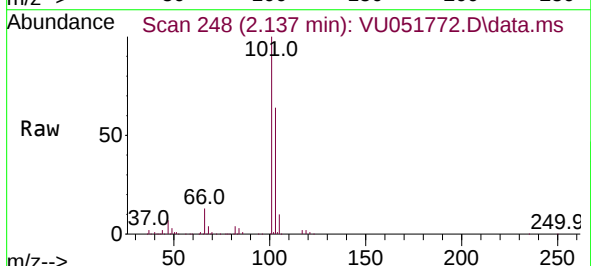
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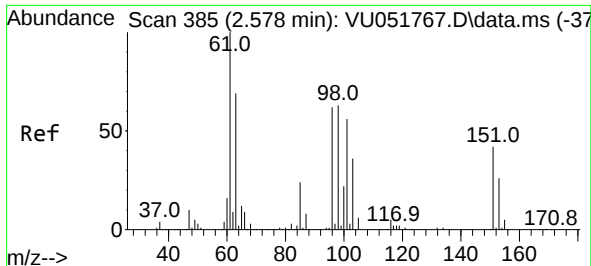
Tgt Ion: 64 Resp: 150273  
Ion Ratio Lower Upper  
64 100  
66 32.8 21.9 40.7



#9  
Trichlorofluoromethane  
Concen: 41.554 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 101 Resp: 272765  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.0 76.4

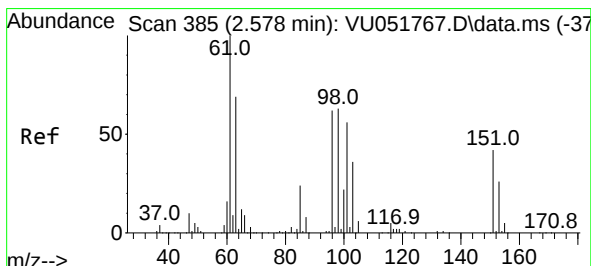
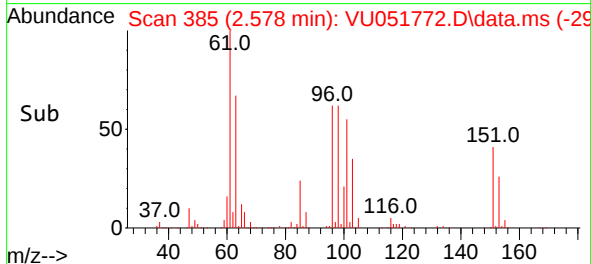
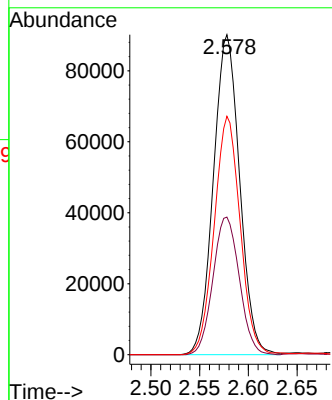
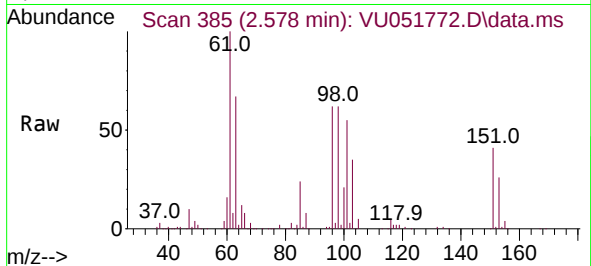




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 42.157 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47

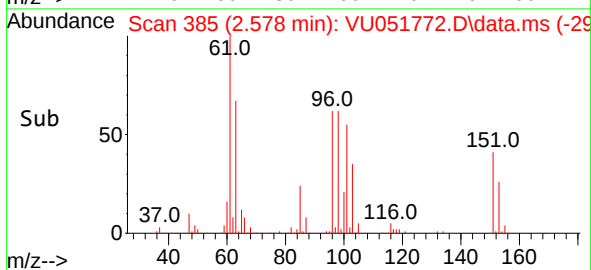
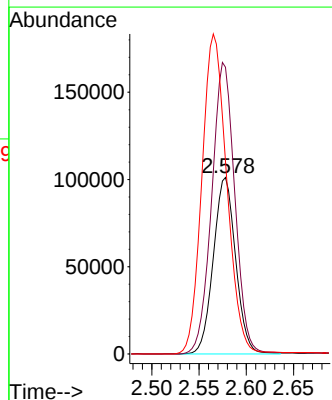
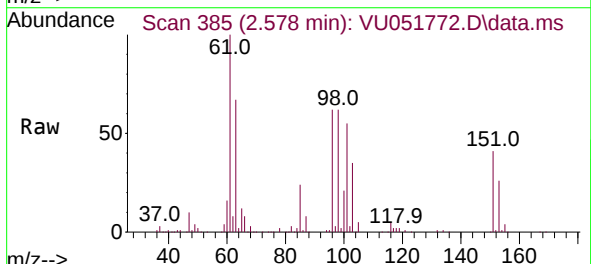
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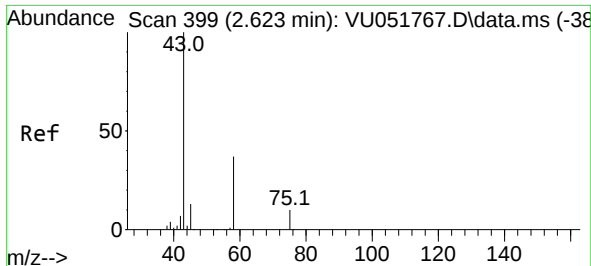
Tgt Ion:101 Resp: 169137  
 Ion Ratio Lower Upper  
 101 100  
 85 43.1 35.2 52.8  
 151 73.4 57.8 86.8



#12  
 1,1-Dichloroethene  
 Concen: 43.629 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47

Tgt Ion: 96 Resp: 165937  
 Ion Ratio Lower Upper  
 96 100  
 61 162.5 119.0 221.0  
 63 109.1 78.5 145.7





#13

Acetone

Concen: 67.277 ug/L

RT: 2.623 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

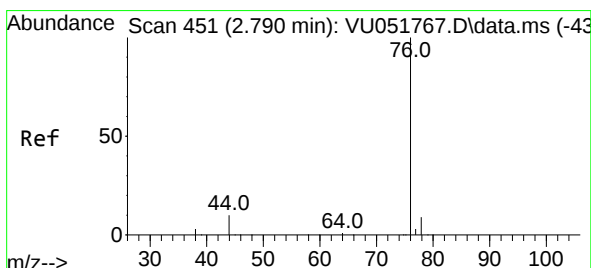
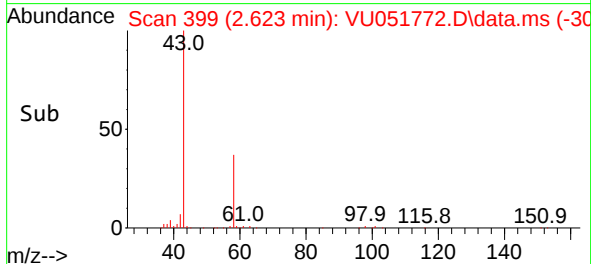
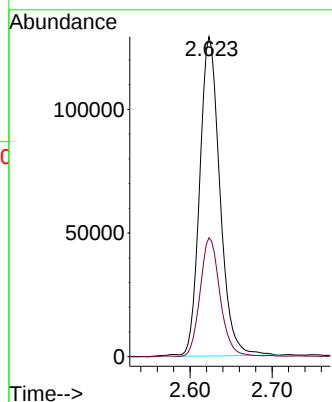
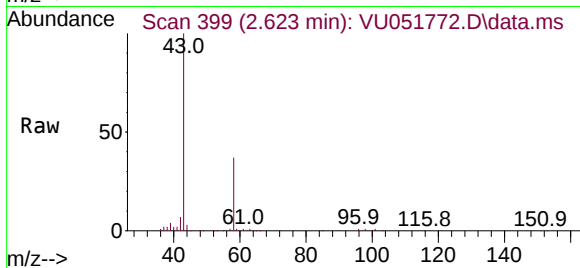
VSTD050119

Tgt Ion: 43 Resp: 220058

Ion Ratio Lower Upper

43 100

58 36.9 0.0 70.2



#14

Carbon disulfide

Concen: 39.203 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU051772.D

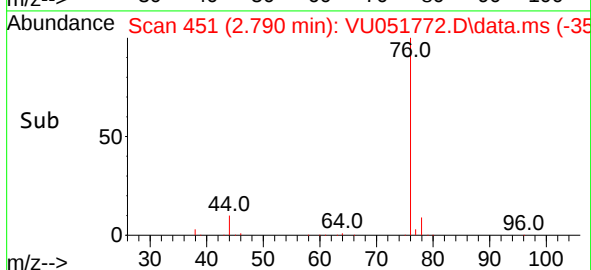
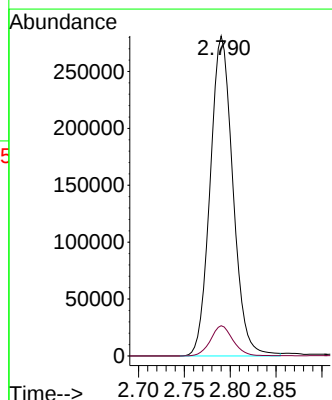
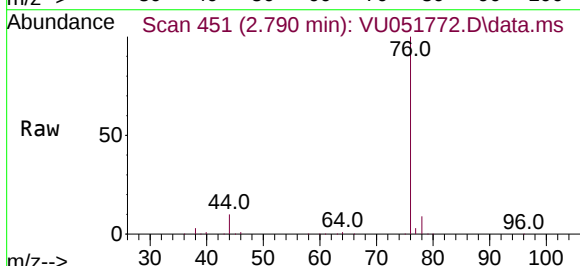
Acq: 07 Nov 2022 16:47

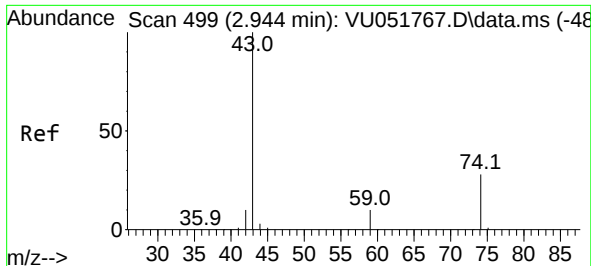
Tgt Ion: 76 Resp: 485637

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9

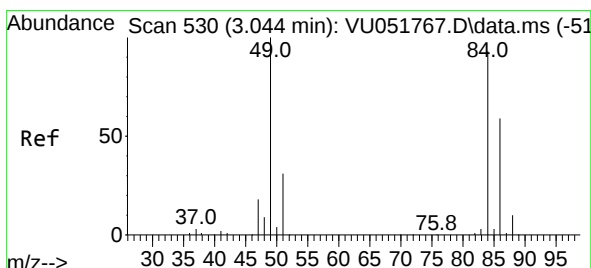
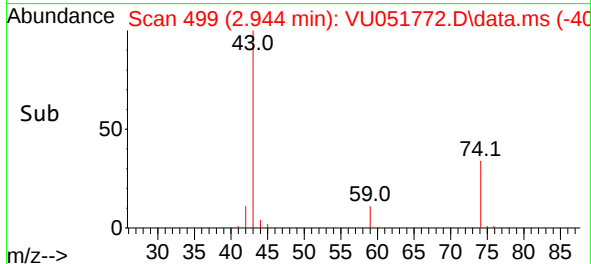
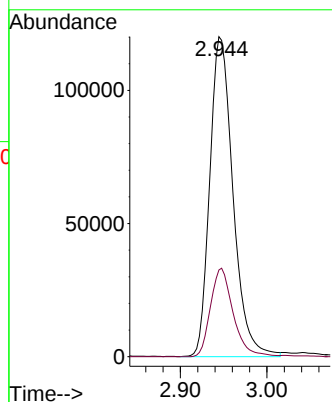
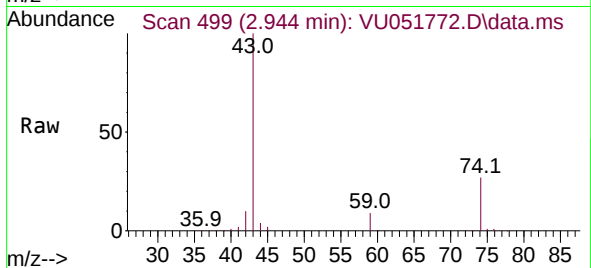




#15  
Methyl Acetate  
Concen: 45.302 ug/L  
RT: 2.944 min Scan# 499  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

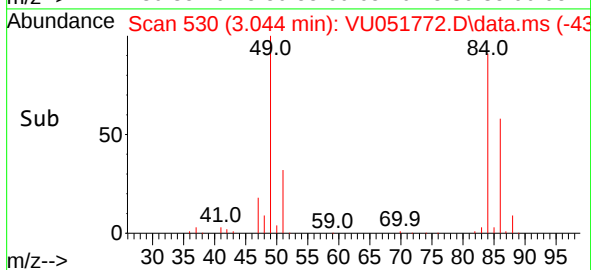
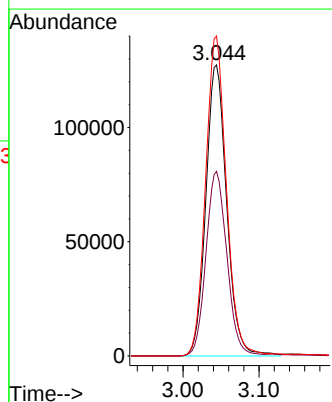
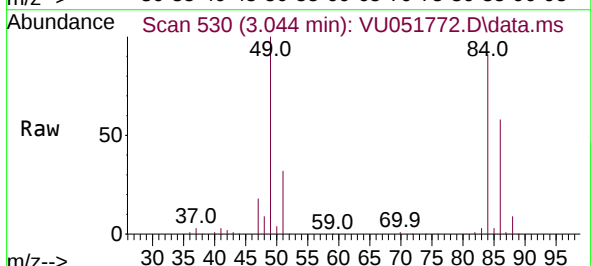
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

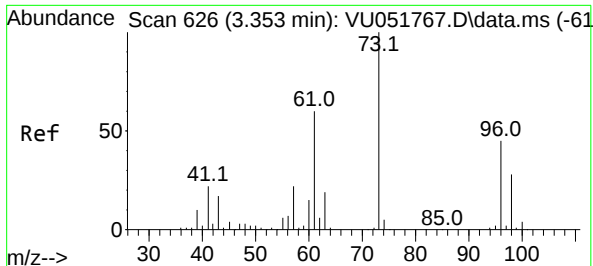
Tgt Ion: 43 Resp: 224096  
Ion Ratio Lower Upper  
43 100  
74 26.9 21.1 31.7



#16  
Methylene chloride  
Concen: 48.592 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 84 Resp: 242591  
Ion Ratio Lower Upper  
84 100  
86 63.4 45.8 85.2  
49 110.0 78.1 145.1





#17

trans-1,2-Dichloroethene

Concen: 45.245 ug/L

RT: 3.350 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050119

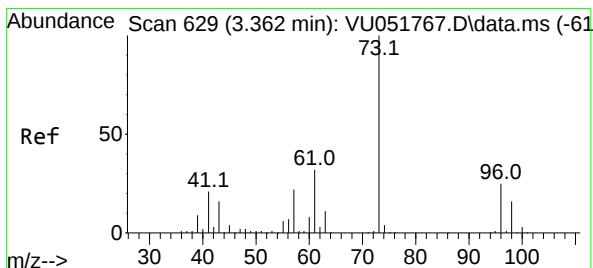
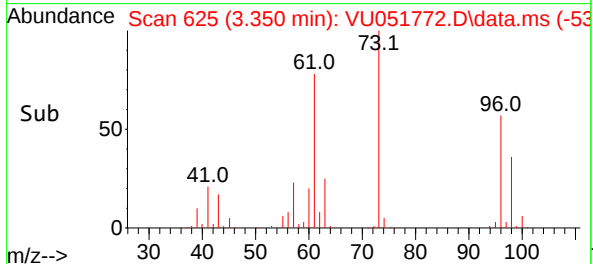
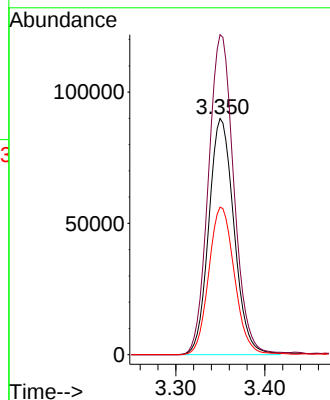
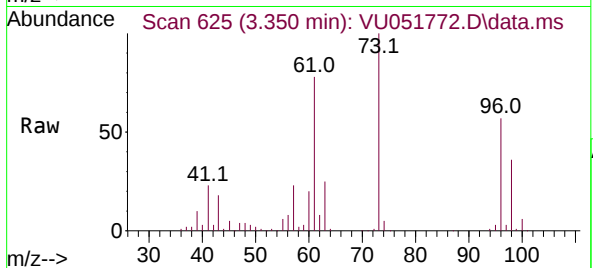
Tgt Ion: 96 Resp: 176978

Ion Ratio Lower Upper

96 100

61 135.5 98.1 182.1

98 62.5 44.8 83.2



#18

Methyl tert-butyl Ether

Concen: 49.644 ug/L

RT: 3.362 min Scan# 629

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

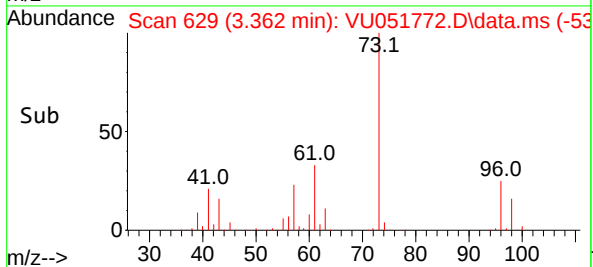
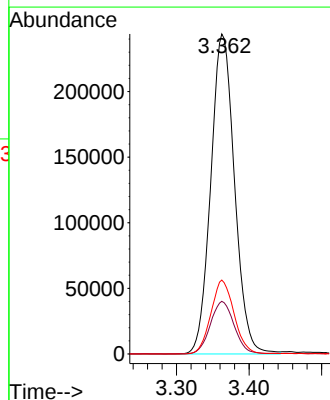
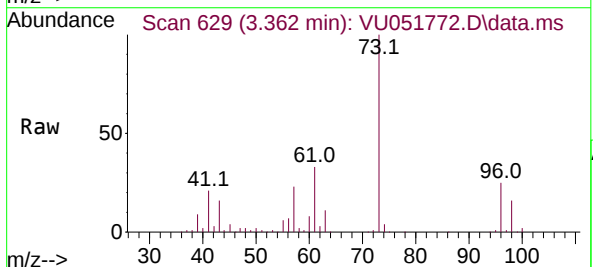
Tgt Ion: 73 Resp: 555293

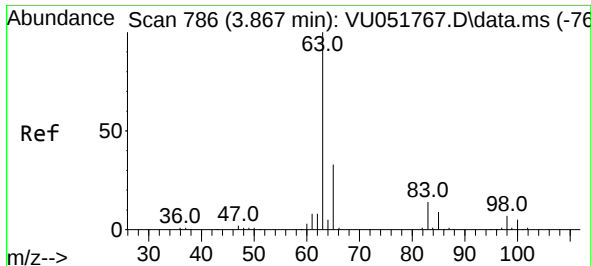
Ion Ratio Lower Upper

73 100

43 16.4 13.9 20.9

57 22.5 17.7 26.5

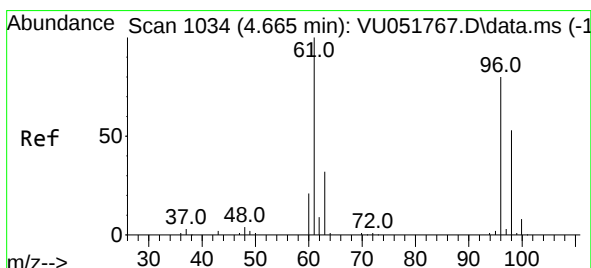
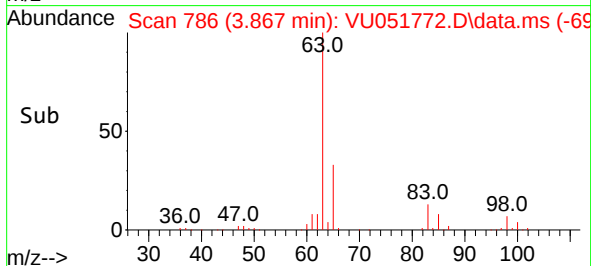
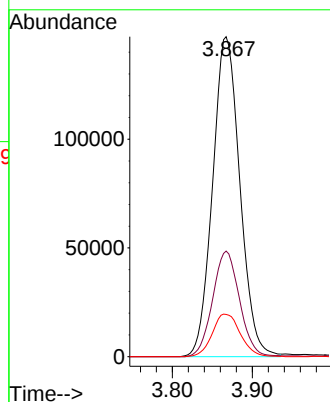
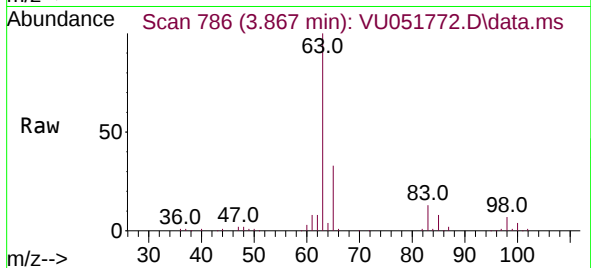




#19  
1,1-Dichloroethane  
Concen: 45.168 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

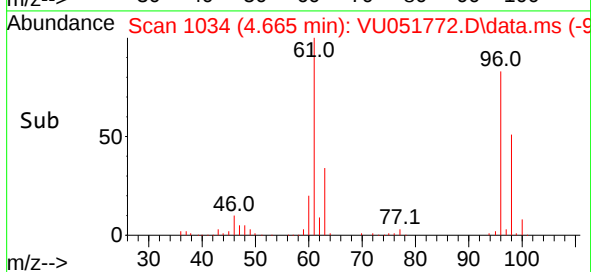
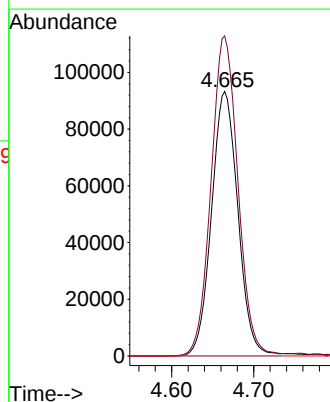
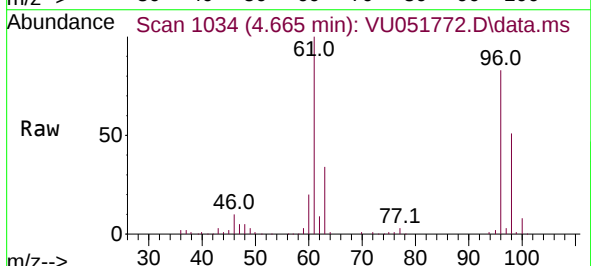
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

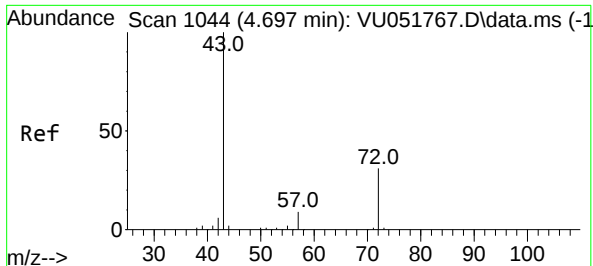
Tgt Ion: 63 Resp: 348480  
Ion Ratio Lower Upper  
63 100  
65 33.0 22.1 41.1  
83 13.2 9.4 17.4



#20  
cis-1,2-Dichloroethene  
Concen: 48.867 ug/L  
RT: 4.665 min Scan# 1034  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 96 Resp: 208538  
Ion Ratio Lower Upper  
96 100  
61 121.0 89.7 166.7  
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 86.148 ug/L

RT: 4.700 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

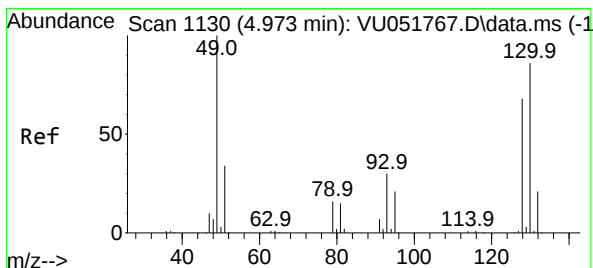
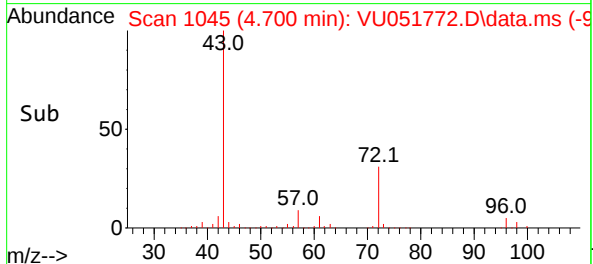
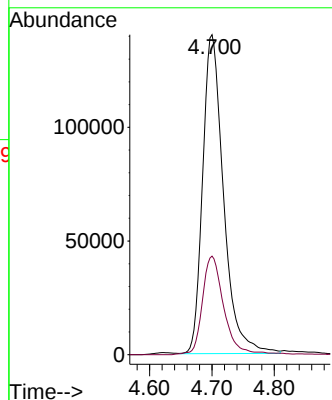
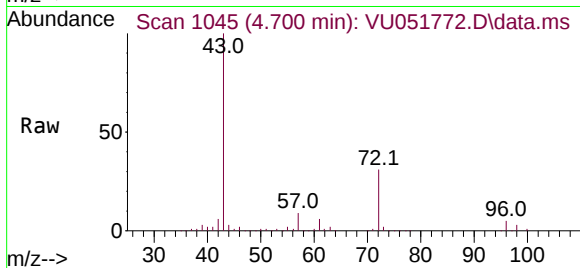
VSTD050119

Tgt Ion: 43 Resp: 327030

Ion Ratio Lower Upper

43 100

72 31.0 15.2 45.6



#23

Bromochloromethane

Concen: 47.200 ug/L

RT: 4.973 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Tgt Ion:128 Resp: 113010

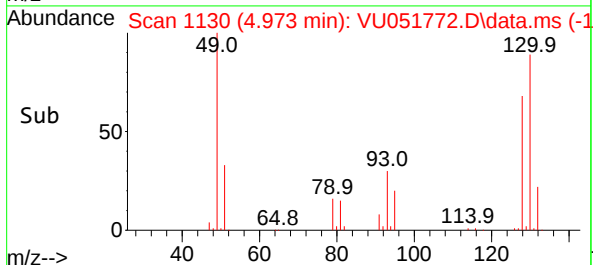
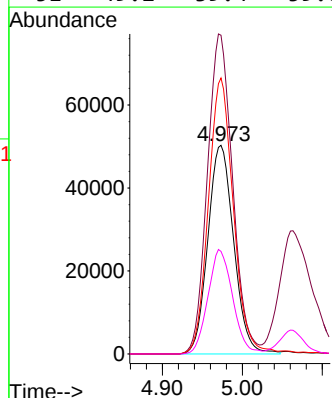
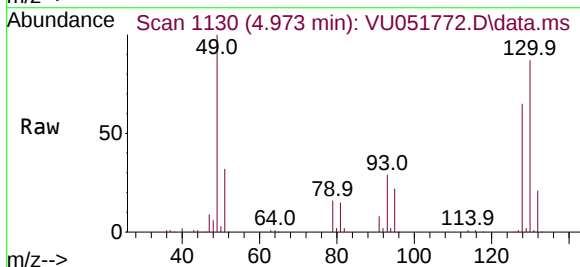
Ion Ratio Lower Upper

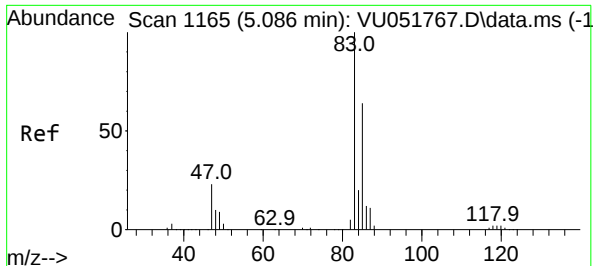
128 100

49 152.8 111.9 207.9

130 132.3 88.2 163.8

51 49.2 39.4 59.0





#25

Chloroform

Concen: 46.108 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

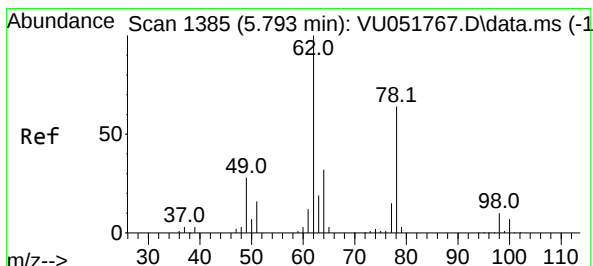
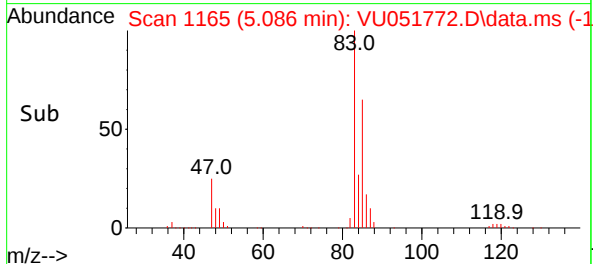
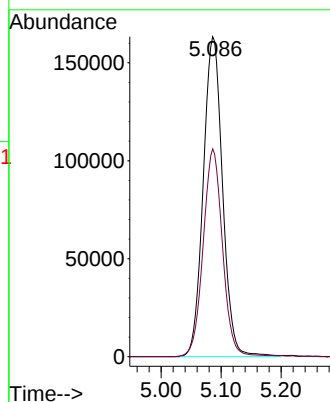
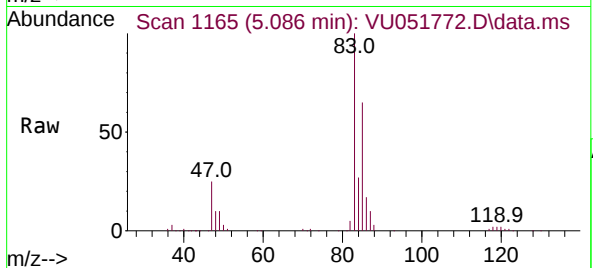
VSTD050119

Tgt Ion: 83 Resp: 366745

Ion Ratio Lower Upper

83 100

85 64.9 45.1 83.9



#27

1,2-Dichloroethane

Concen: 45.141 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU051772.D

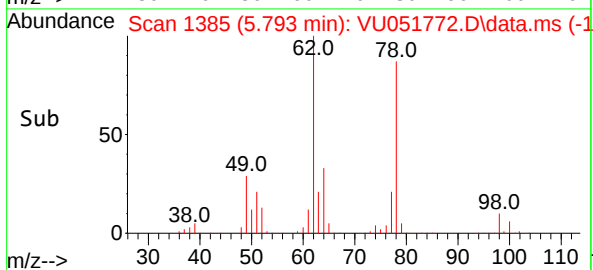
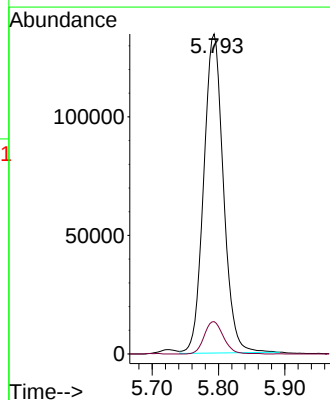
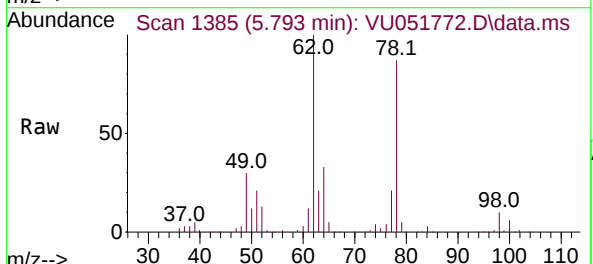
Acq: 07 Nov 2022 16:47

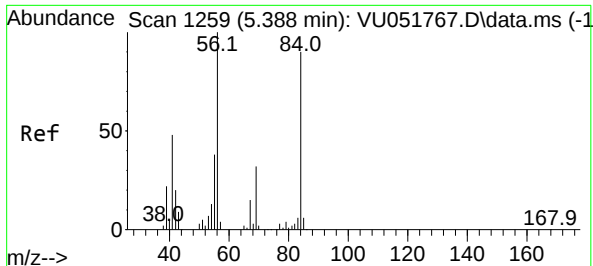
Tgt Ion: 62 Resp: 278800

Ion Ratio Lower Upper

62 100

98 10.1 8.0 12.0





#29

Cyclohexane

Concen: 50.042 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050119

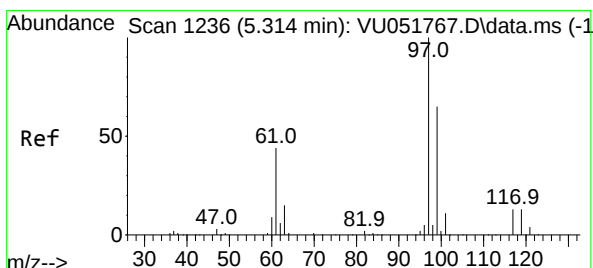
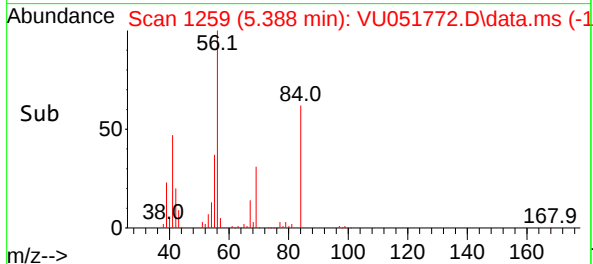
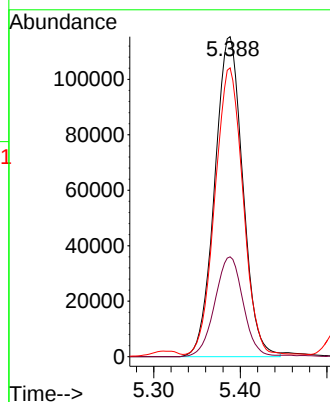
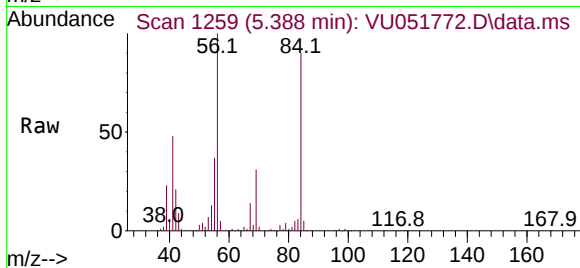
Tgt Ion: 56 Resp: 259895

Ion Ratio Lower Upper

56 100

69 31.3 25.5 38.3

84 89.4 69.8 104.6



#30

1,1,1-Trichloroethane

Concen: 47.883 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

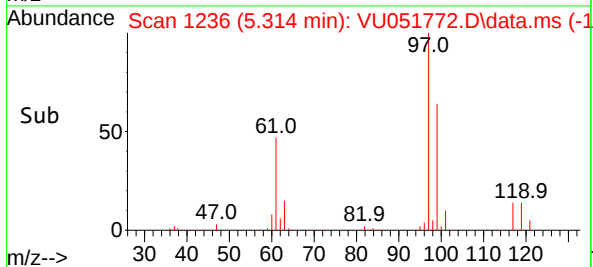
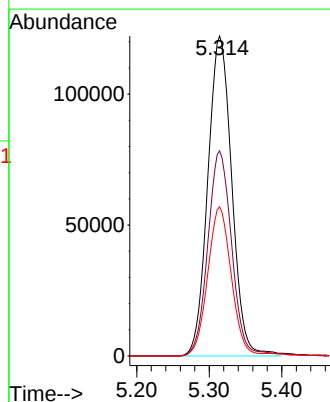
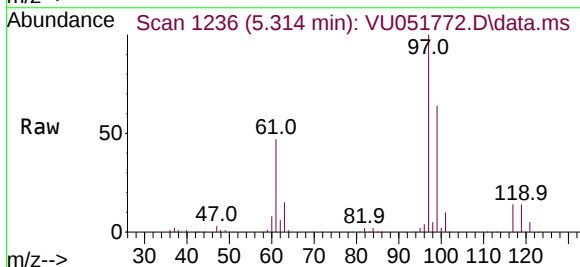
Tgt Ion: 97 Resp: 280744

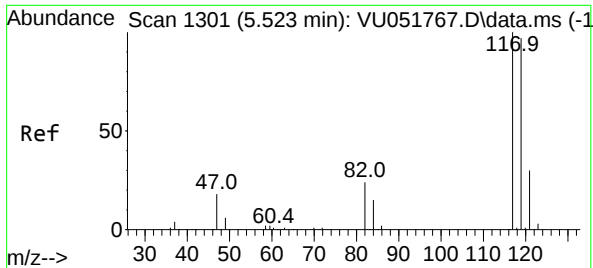
Ion Ratio Lower Upper

97 100

99 63.7 50.7 76.1

61 45.6 36.7 55.1

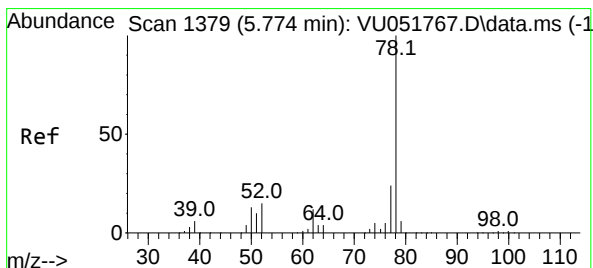
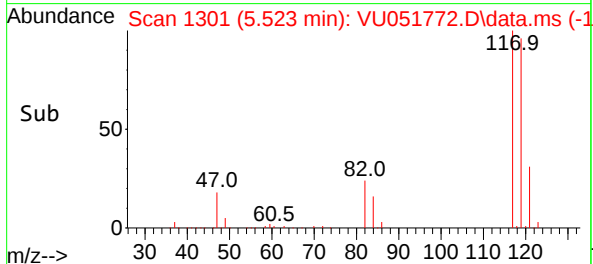
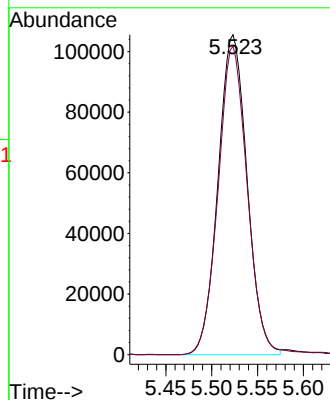
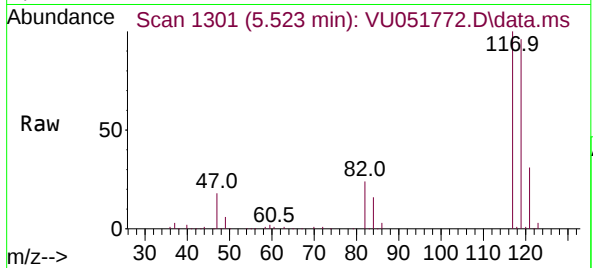




#31  
Carbon tetrachloride  
Concen: 46.828 ug/L  
RT: 5.523 min Scan# 1301  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

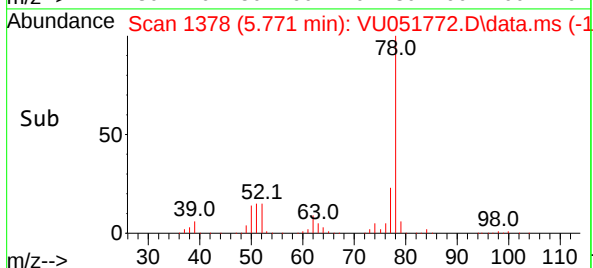
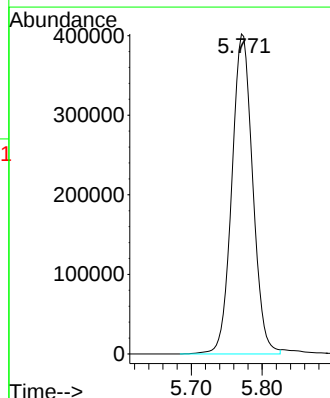
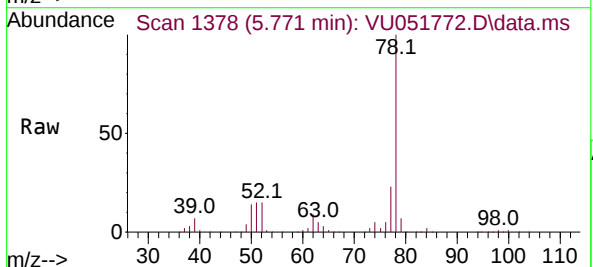
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

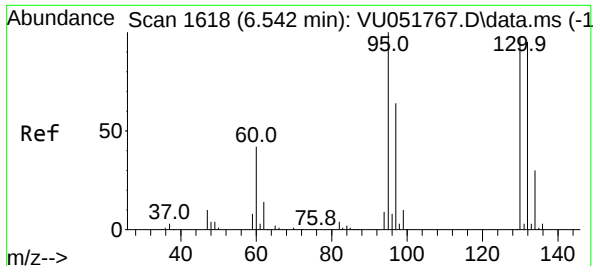
Tgt Ion:117 Resp: 231821  
Ion Ratio Lower Upper  
117 100  
119 97.4 77.0 115.6



#33  
Benzene  
Concen: 50.933 ug/L  
RT: 5.771 min Scan# 1378  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 78 Resp: 823067

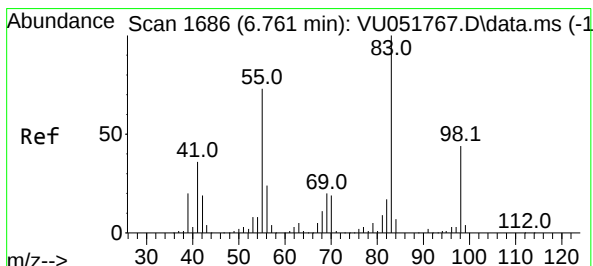
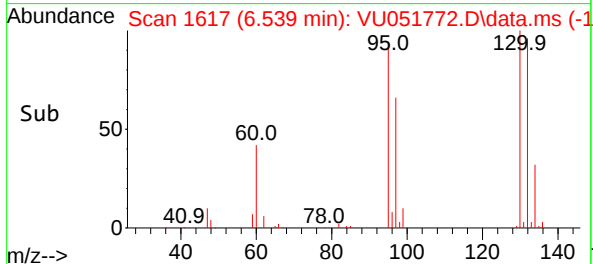
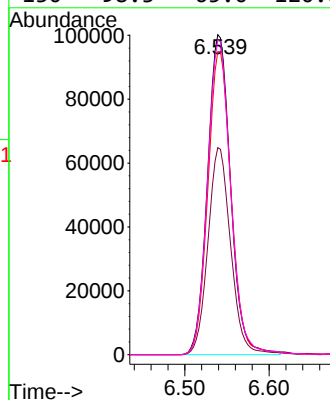
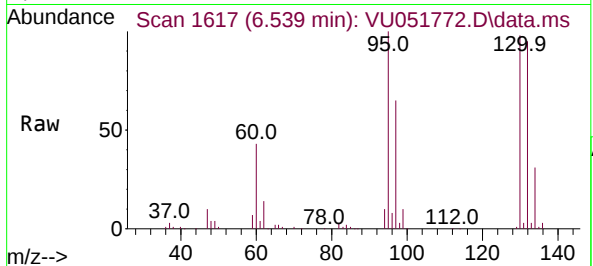




#34  
Trichloroethene  
Concen: 49.073 ug/L  
RT: 6.539 min Scan# 1  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

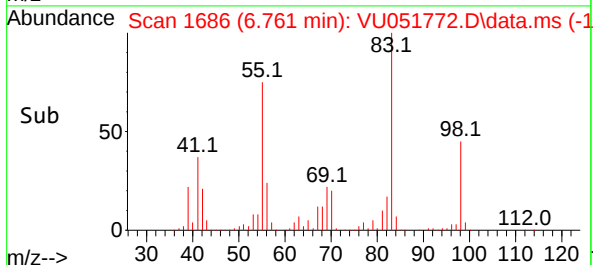
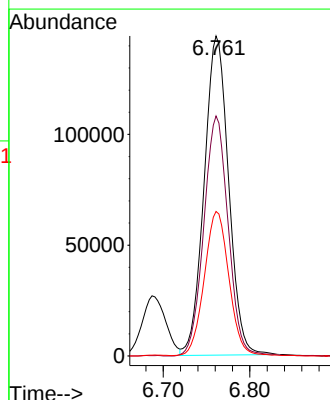
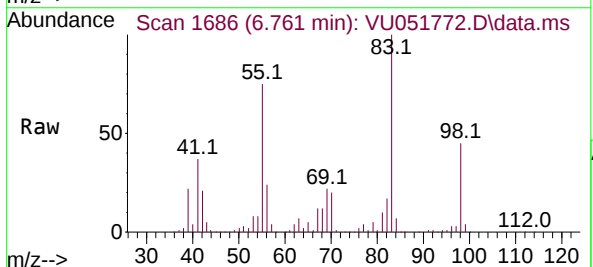
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

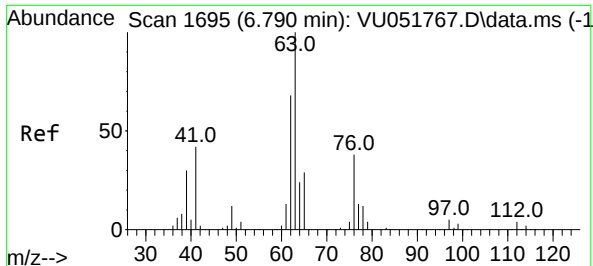
Tgt Ion: 95 Resp: 191361  
Ion Ratio Lower Upper  
95 100  
97 64.7 43.8 81.4  
132 94.7 61.9 114.9  
130 98.3 65.0 120.8



#35  
Methylcyclohexane  
Concen: 50.725 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 83 Resp: 282966  
Ion Ratio Lower Upper  
83 100  
55 75.1 62.6 93.8  
98 45.7 36.2 54.4





#37

1,2-Dichloropropane

Concen: 50.464 ug/L

RT: 6.790 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

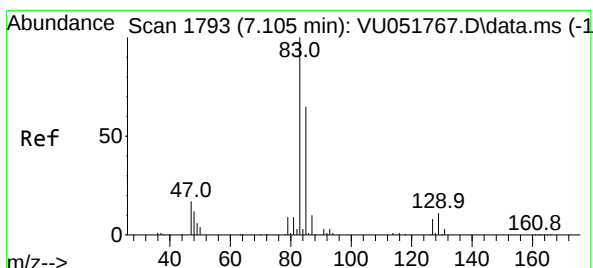
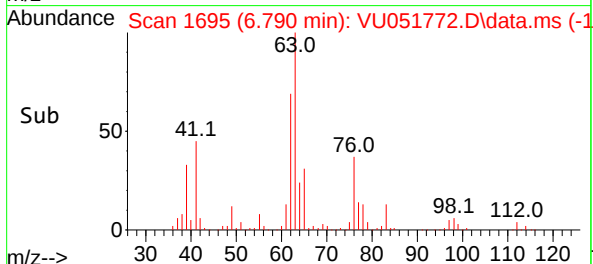
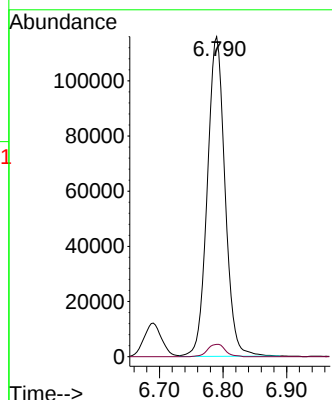
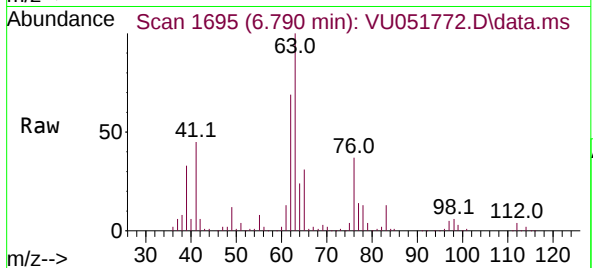
VSTD050119

Tgt Ion: 63 Resp: 223639

Ion Ratio Lower Upper

63 100

112 3.9 3.2 4.8



#38

Bromodichloromethane

Concen: 48.514 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. -0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

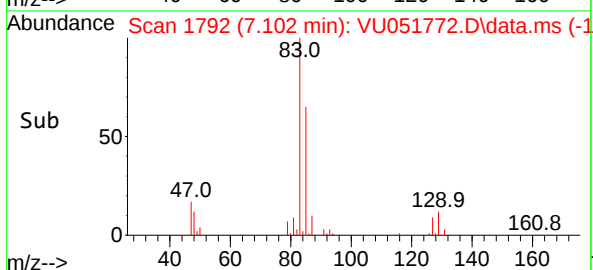
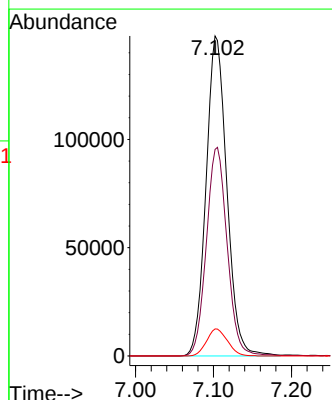
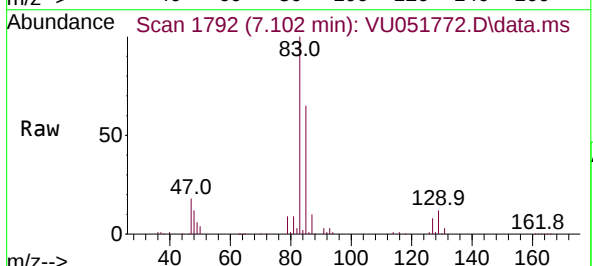
Tgt Ion: 83 Resp: 273692

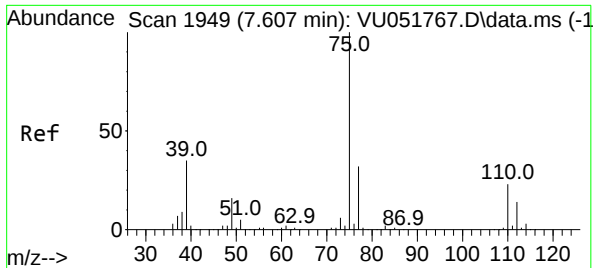
Ion Ratio Lower Upper

83 100

85 64.6 44.9 83.5

127 8.4 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 53.357 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

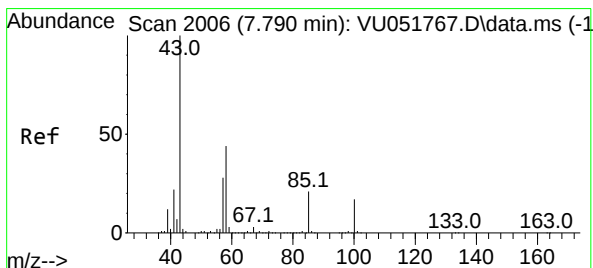
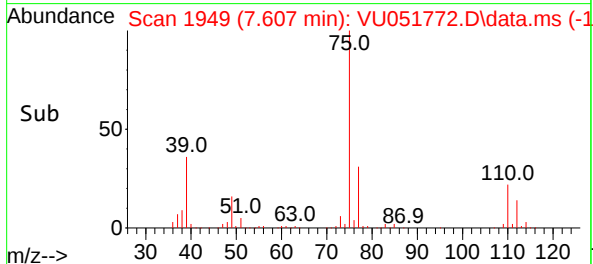
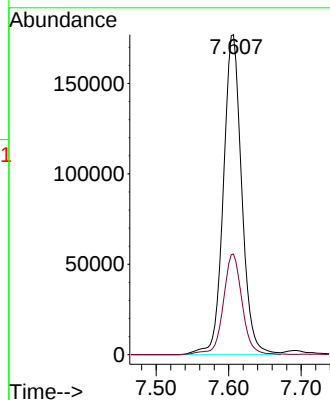
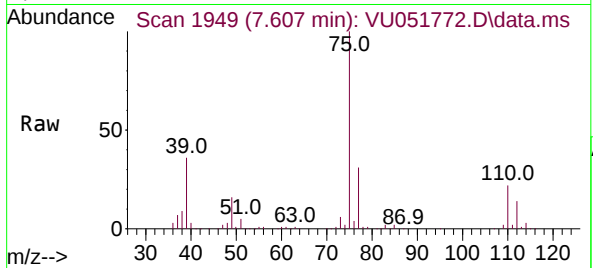
VSTD050119

Tgt Ion: 75 Resp: 311753

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 101.786 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. -0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

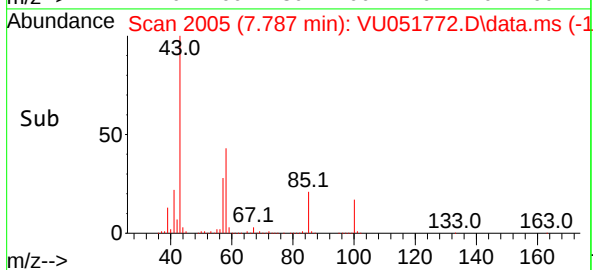
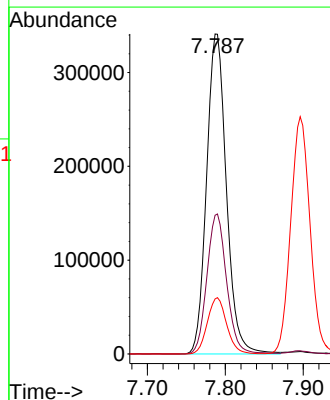
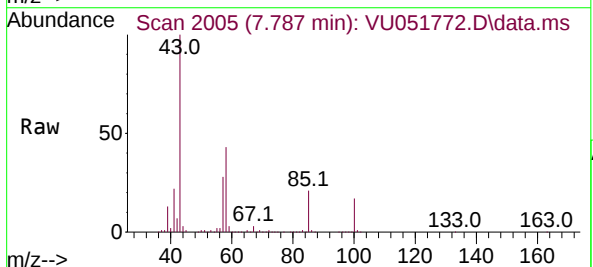
Tgt Ion: 43 Resp: 602714

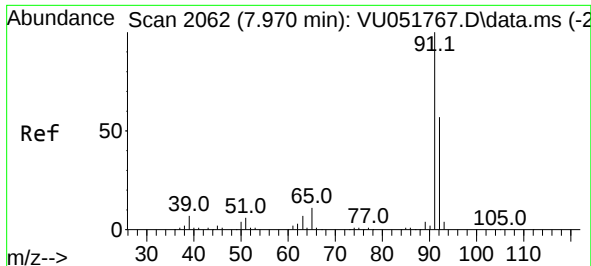
Ion Ratio Lower Upper

43 100

58 43.6 34.4 51.6

100 17.2 12.9 19.3





#42

Toluene

Concen: 52.815 ug/L

RT: 7.967 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

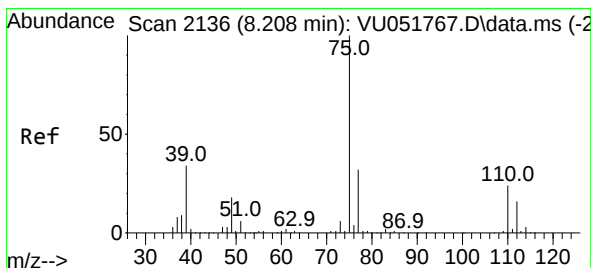
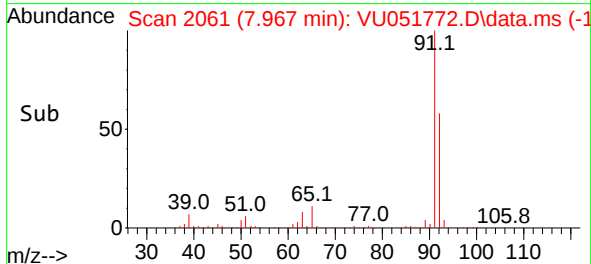
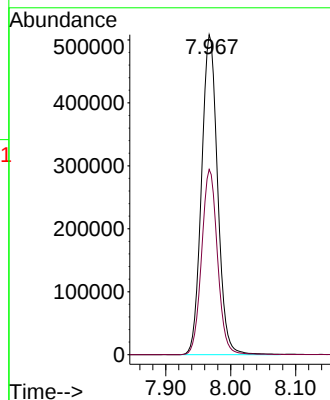
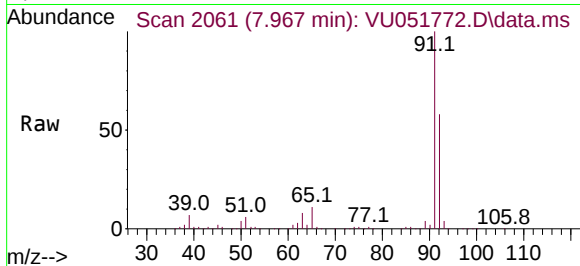
VSTD050119

Tgt Ion: 91 Resp: 875846

Ion Ratio Lower Upper

91 100

92 57.9 39.3 73.1



#44

trans-1,3-Dichloropropene

Concen: 52.336 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.000 min

Lab File: VU051772.D

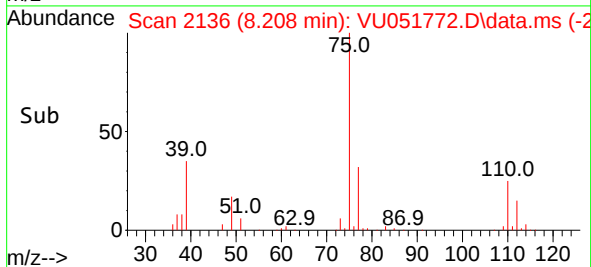
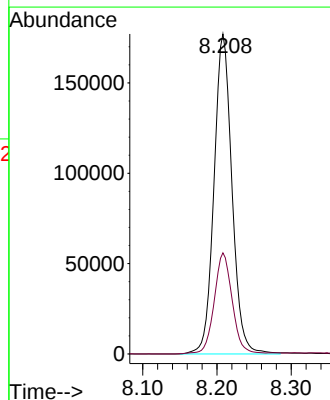
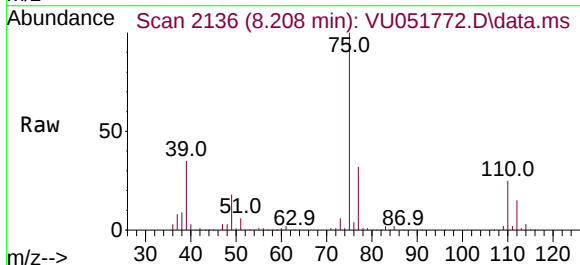
Acq: 07 Nov 2022 16:47

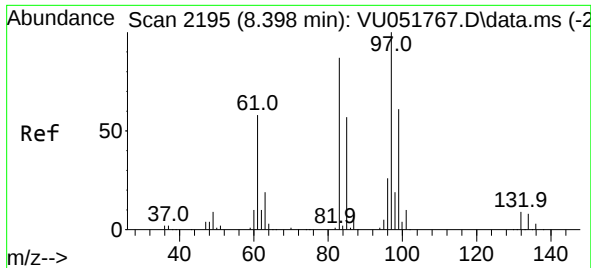
Tgt Ion: 75 Resp: 297582

Ion Ratio Lower Upper

75 100

77 31.6 21.3 39.5



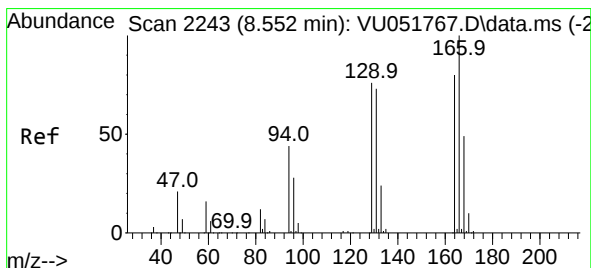
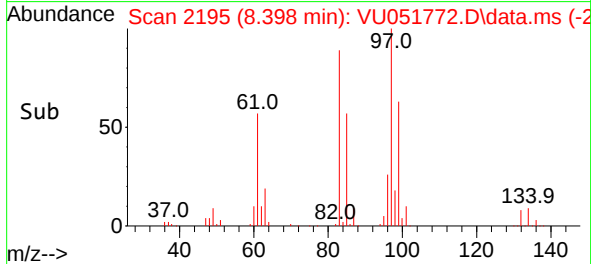
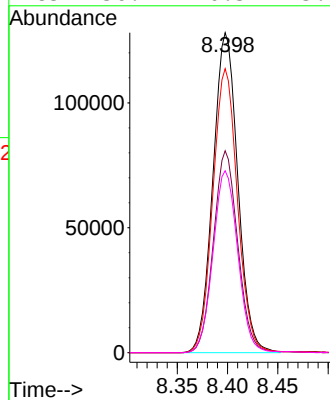
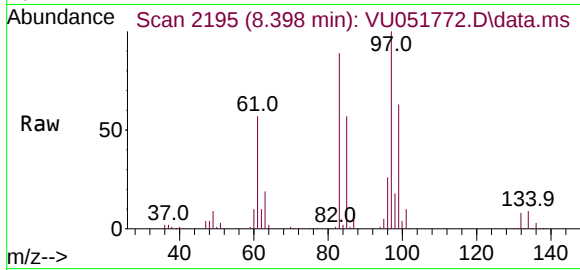


#45  
1,1,2-Trichloroethane  
Concen: 49.690 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

Tgt Ion: 97 Resp: 219779

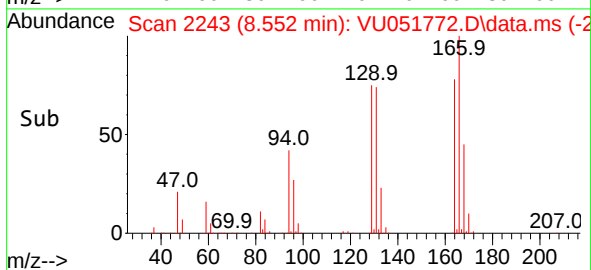
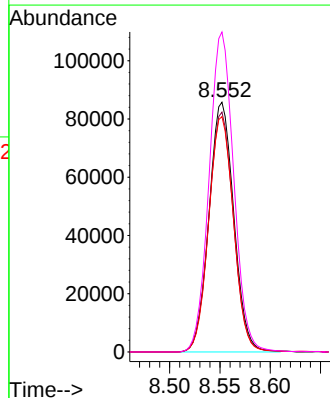
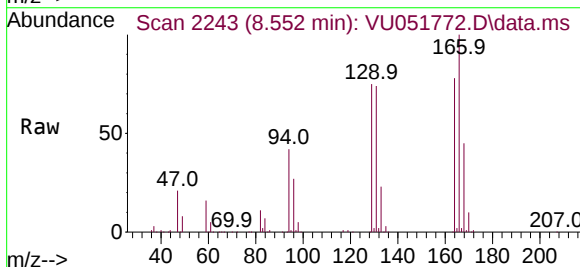
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.1  | 43.6  | 81.0  |
| 83  | 88.7  | 61.8  | 114.8 |
| 85  | 56.9  | 40.5  | 75.3  |

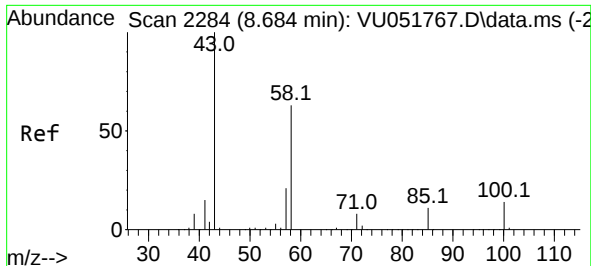


#46  
Tetrachloroethene  
Concen: 50.617 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 164 Resp: 147333

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 96.0  | 67.3  | 124.9 |
| 131 | 94.2  | 65.2  | 121.0 |
| 166 | 128.1 | 87.0  | 161.6 |



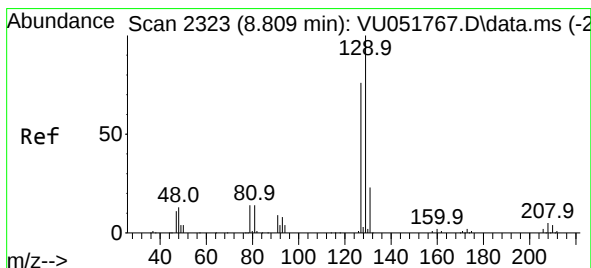
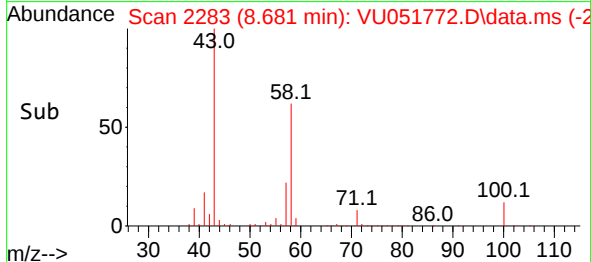
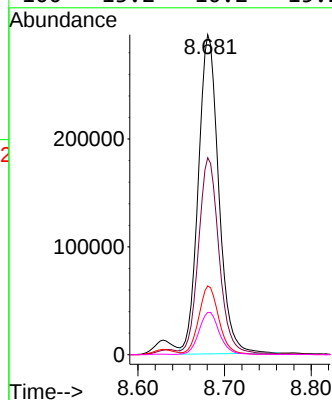
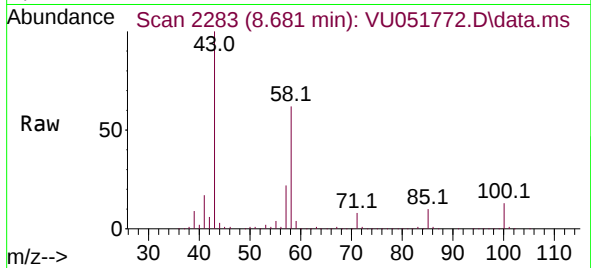


#48  
2-Hexanone  
Concen: 95.776 ug/L  
RT: 8.681 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

Tgt Ion: 43 Resp: 484618

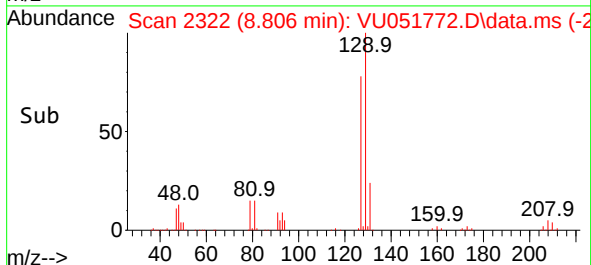
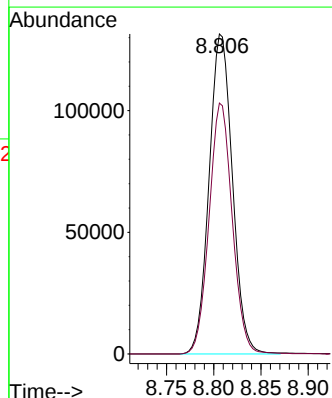
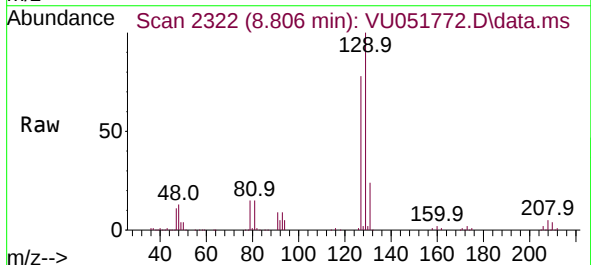
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 62.1  | 48.2  | 72.4  |
| 57  | 21.0  | 16.4  | 24.6  |
| 100 | 13.2  | 10.2  | 15.2  |

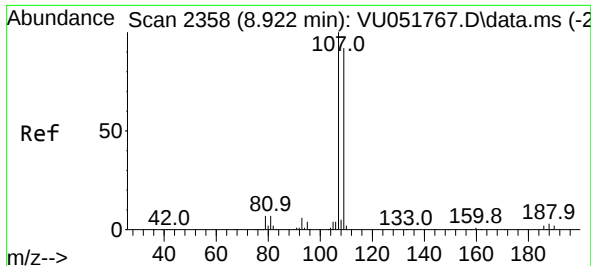


#49  
Dibromochloromethane  
Concen: 49.900 ug/L  
RT: 8.806 min Scan# 2322  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 129 Resp: 225901

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.4  | 53.1  | 98.5  |

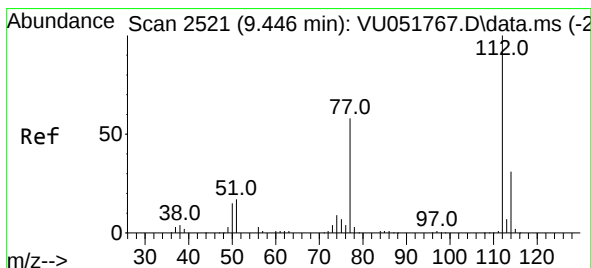
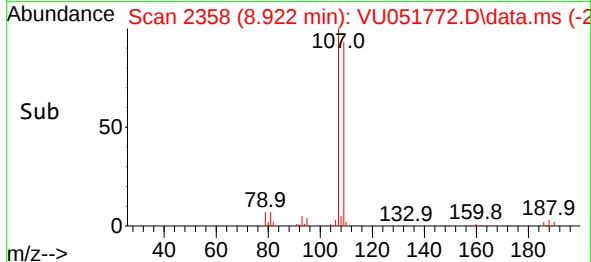
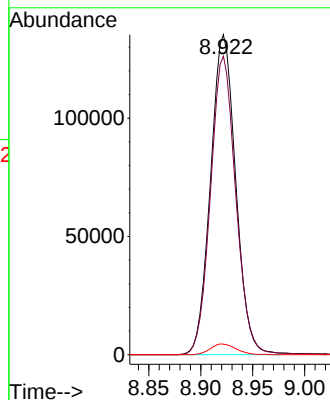
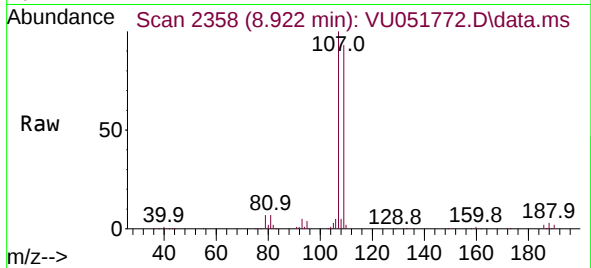




#50  
1,2-Dibromoethane  
Concen: 50.331 ug/L  
RT: 8.922 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

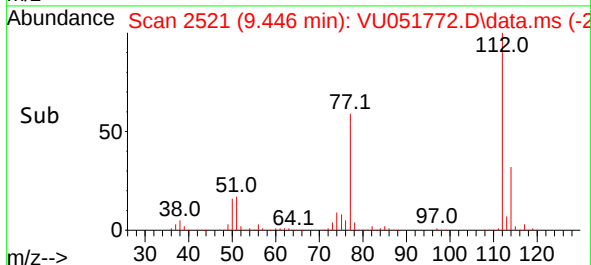
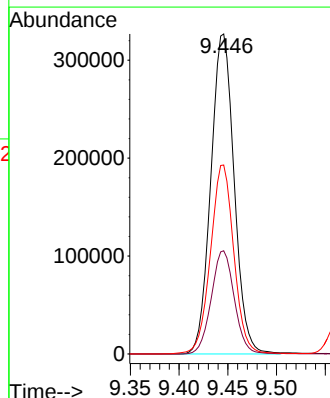
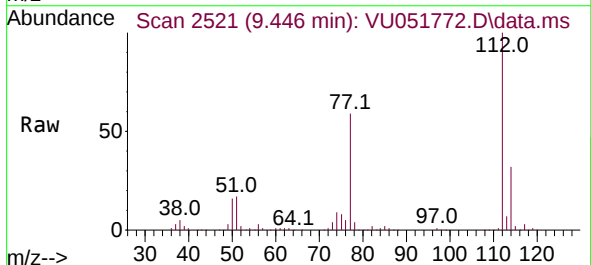
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

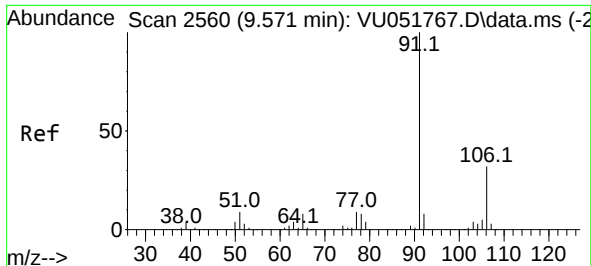
Tgt Ion:107 Resp: 228122  
Ion Ratio Lower Upper  
107 100  
109 93.3 65.8 122.2  
188 3.3 2.7 4.1



#51  
Chlorobenzene  
Concen: 50.099 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion:112 Resp: 544056  
Ion Ratio Lower Upper  
112 100  
114 32.2 21.9 40.7  
77 59.0 47.3 70.9

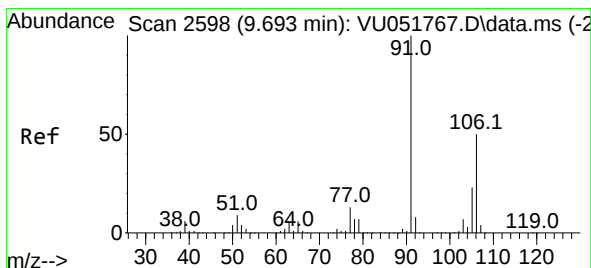
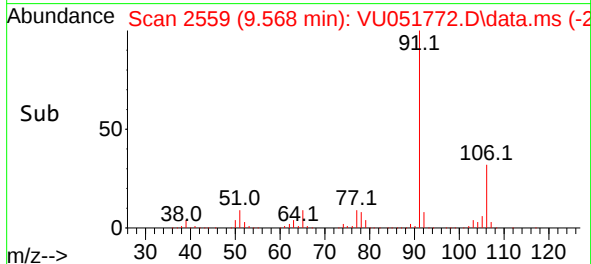
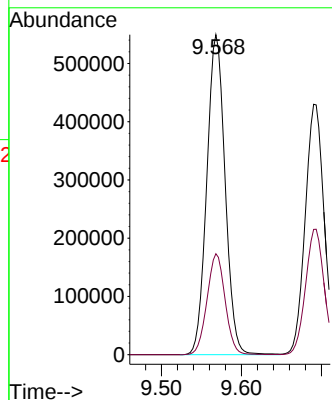
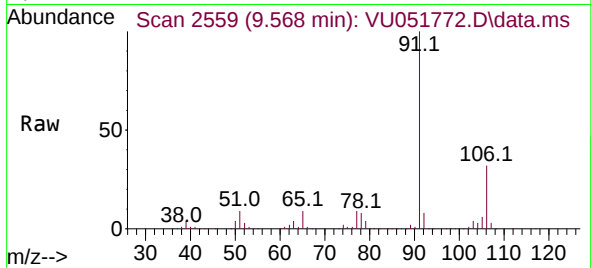




#52  
Ethylbenzene  
Concen: 52.382 ug/L  
RT: 9.568 min Scan# 2559  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

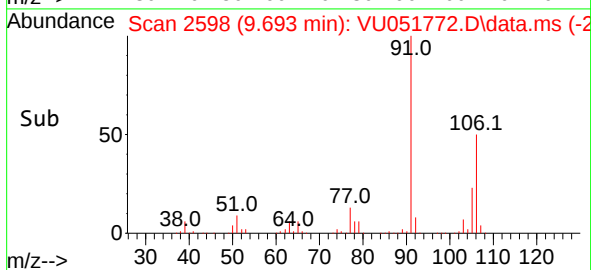
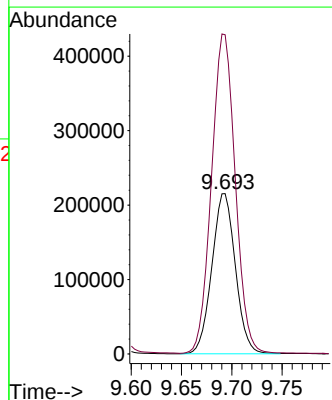
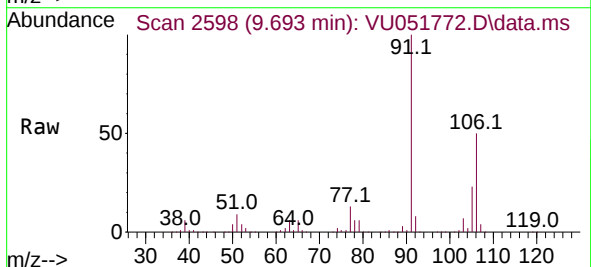
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

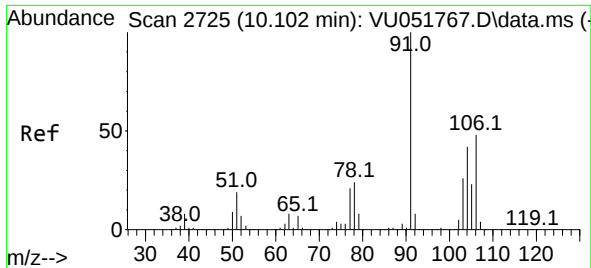
Tgt Ion: 91 Resp: 875980  
Ion Ratio Lower Upper  
91 100  
106 31.5 21.3 39.6



#53  
m,p-Xylene  
Concen: 54.205 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 106 Resp: 349397  
Ion Ratio Lower Upper  
106 100  
91 199.0 141.3 262.3

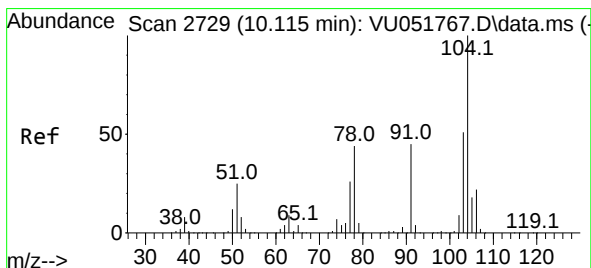
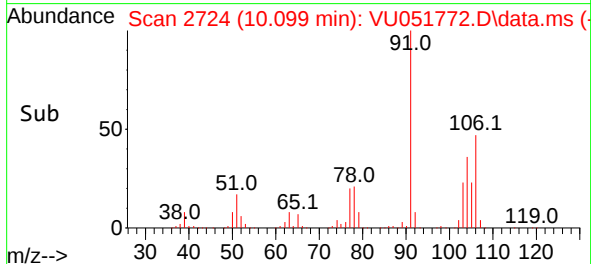
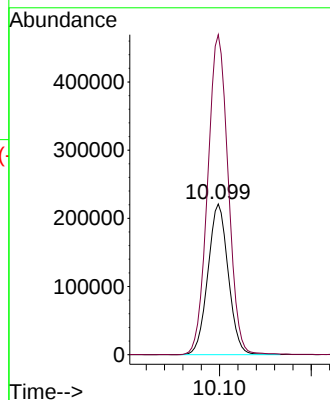
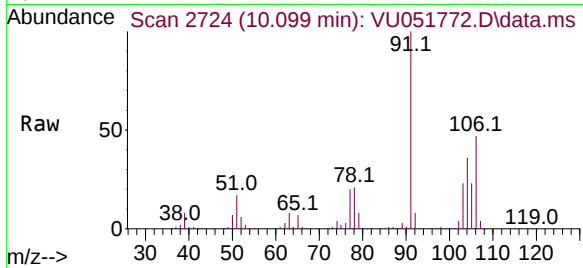




#54  
o-Xylene  
Concen: 53.247 ug/L  
RT: 10.099 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

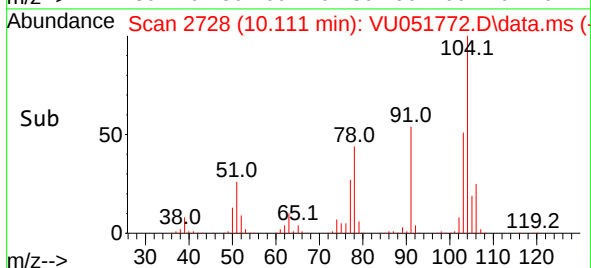
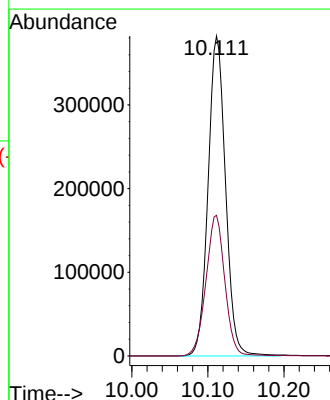
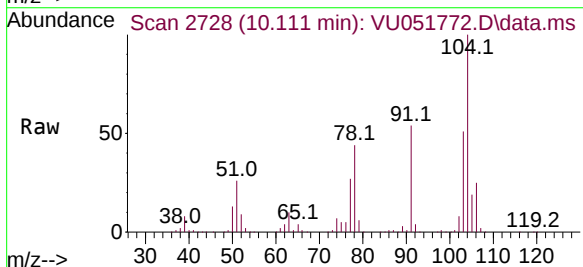
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

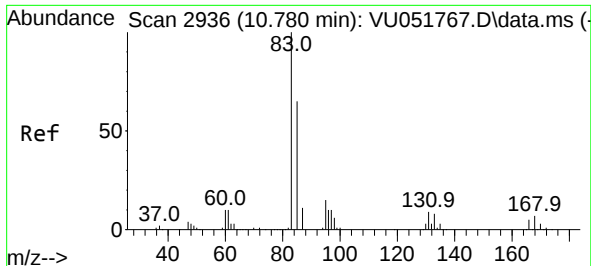
Tgt Ion:106 Resp: 340451  
Ion Ratio Lower Upper  
106 100  
91 212.4 153.2 284.4



#55  
Styrene  
Concen: 54.824 ug/L  
RT: 10.111 min Scan# 2728  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion:104 Resp: 609137  
Ion Ratio Lower Upper  
104 100  
78 43.9 31.8 59.0

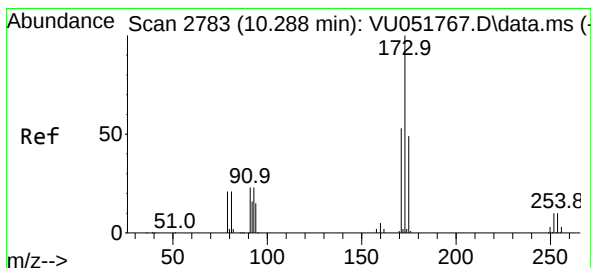
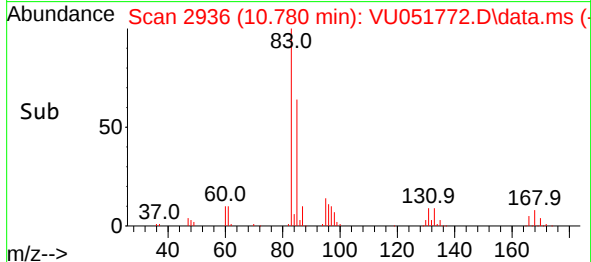
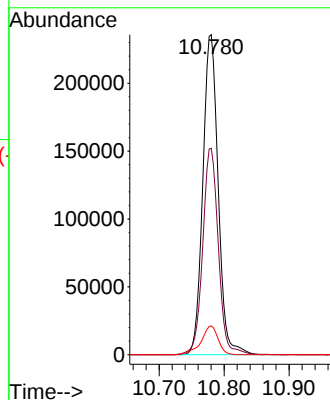
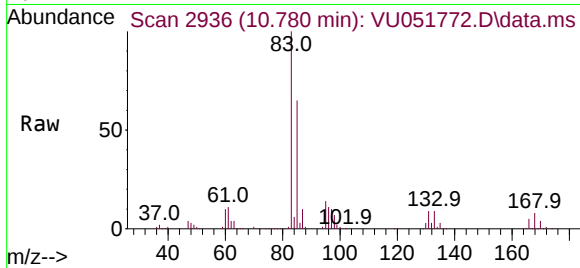




#57  
1,1,2,2-Tetrachloroethane  
Concen: 46.021 ug/L  
RT: 10.780 min Scan# 2936  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

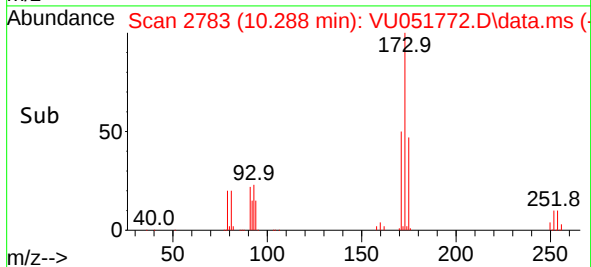
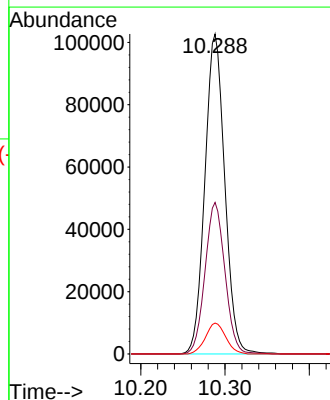
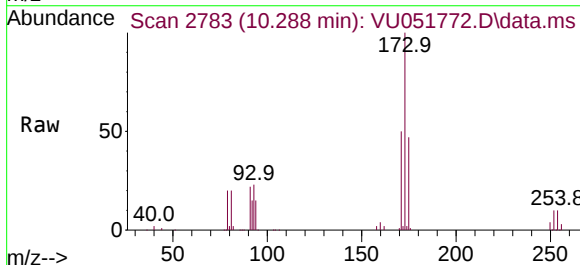
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

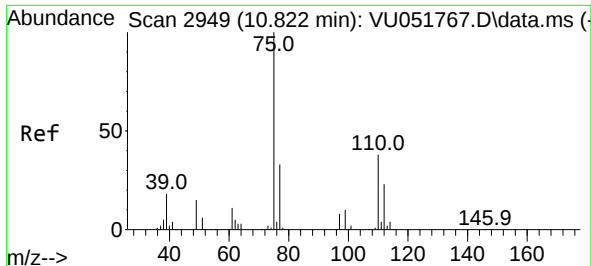
Tgt Ion: 83 Resp: 388408  
Ion Ratio Lower Upper  
83 100  
85 64.5 44.9 83.5  
131 9.0 7.4 11.2



#59  
Bromoform  
Concen: 44.685 ug/L  
RT: 10.288 min Scan# 2783  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 173 Resp: 168772  
Ion Ratio Lower Upper  
173 100  
175 47.4 38.4 57.6  
254 9.9 7.8 11.6

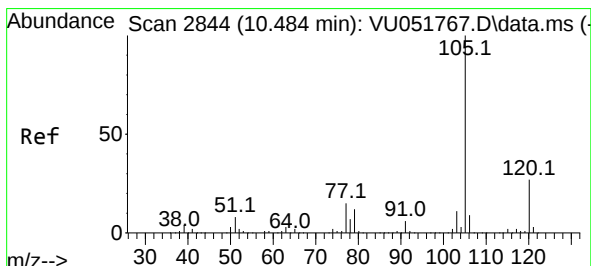
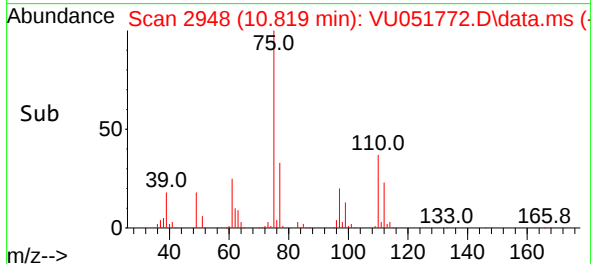
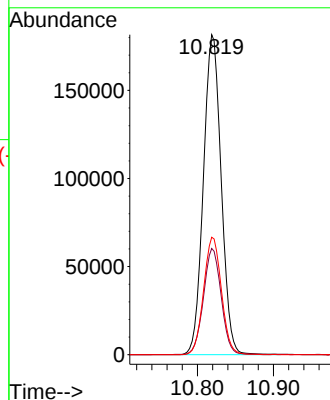
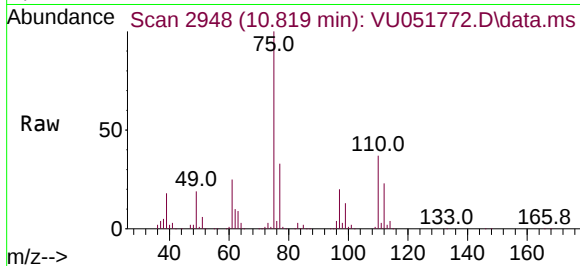




#60  
1,2,3-Trichloropropane  
Concen: 42.016 ug/L  
RT: 10.819 min Scan# 2948  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

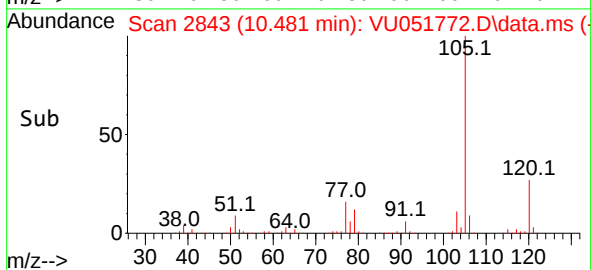
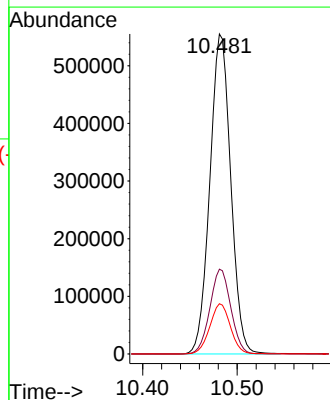
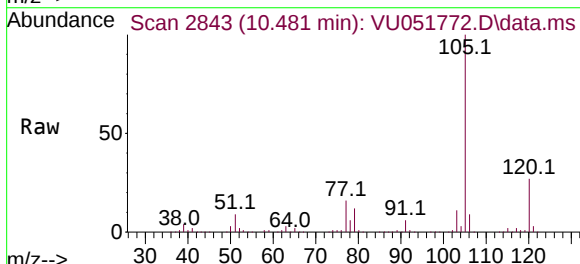
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

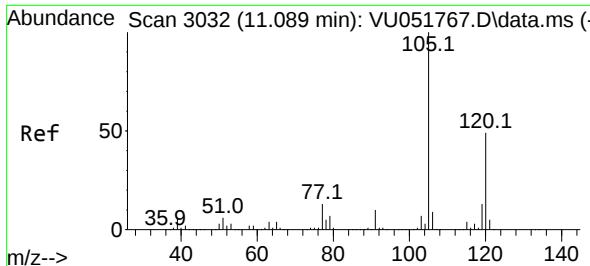
Tgt Ion: 75 Resp: 295279  
Ion Ratio Lower Upper  
75 100  
77 32.7 26.1 39.1  
110 36.6 28.7 43.1



#61  
Isopropylbenzene  
Concen: 50.036 ug/L  
RT: 10.481 min Scan# 2843  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion: 105 Resp: 852119  
Ion Ratio Lower Upper  
105 100  
120 26.6 21.1 31.7  
77 15.6 12.6 19.0





#62

1,3,5-Trimethylbenzene

Concen: 49.284 ug/L

RT: 11.086 min Scan# 3032

Delta R.T. -0.003 min

Lab File: VU051772.D

Acq: 07 Nov 2022 16:47

Instrument :

MSVOA\_U

ClientSampleId :

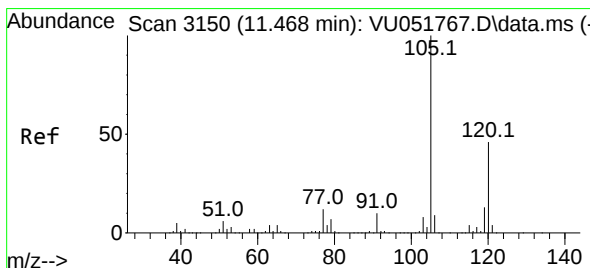
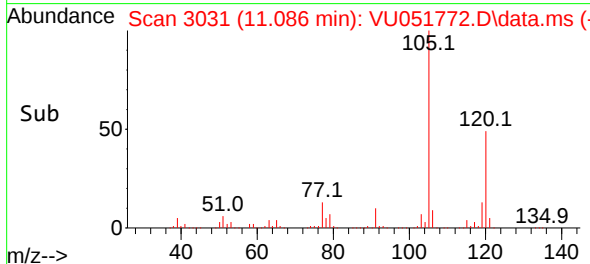
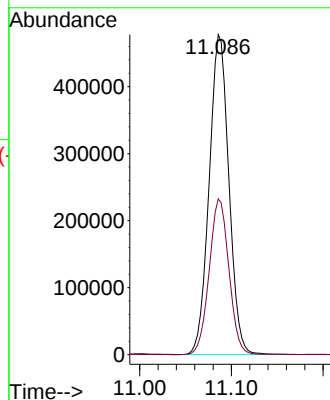
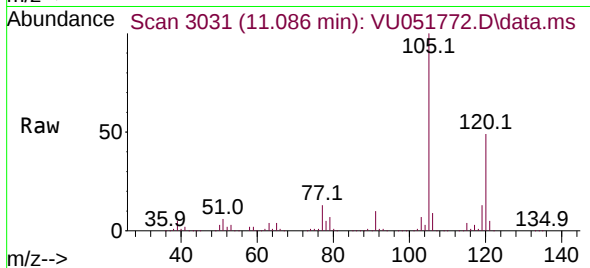
VSTD050119

Tgt Ion:105 Resp: 712978

Ion Ratio Lower Upper

105 100

120 48.7 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 50.222 ug/L

RT: 11.465 min Scan# 3149

Delta R.T. -0.003 min

Lab File: VU051772.D

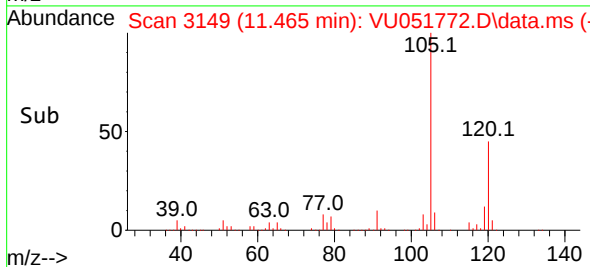
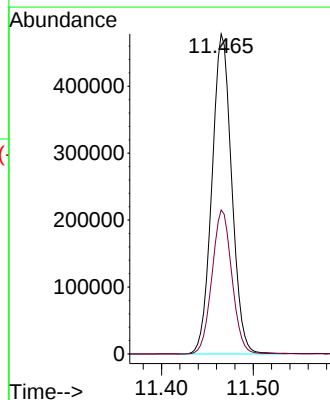
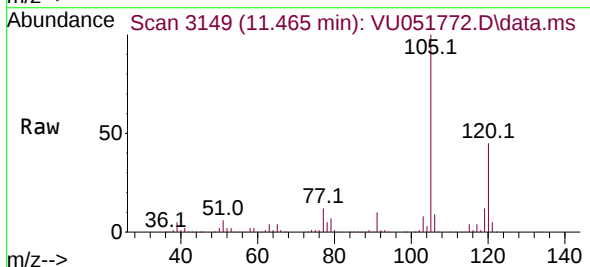
Acq: 07 Nov 2022 16:47

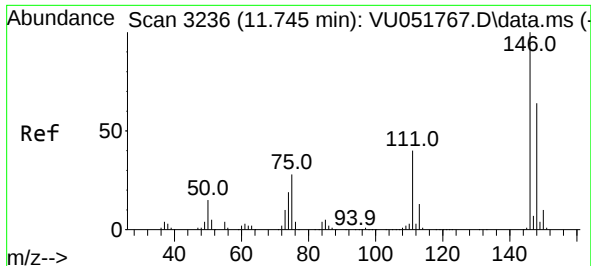
Tgt Ion:105 Resp: 715408

Ion Ratio Lower Upper

105 100

120 45.4 35.4 53.0

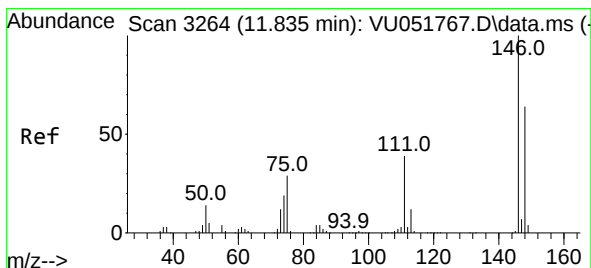
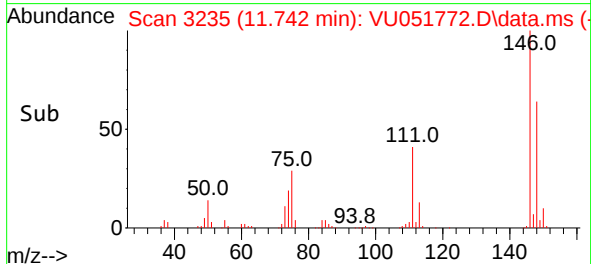
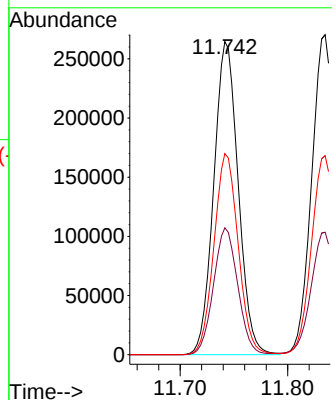
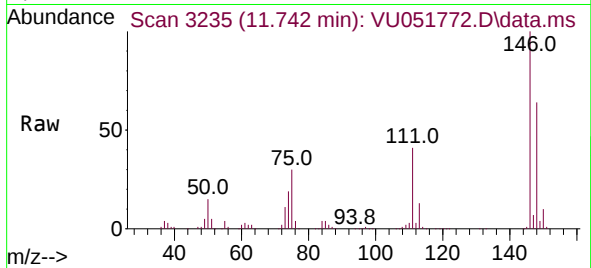




#64  
1,3-Dichlorobenzene  
Concen: 48.069 ug/L  
RT: 11.742 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

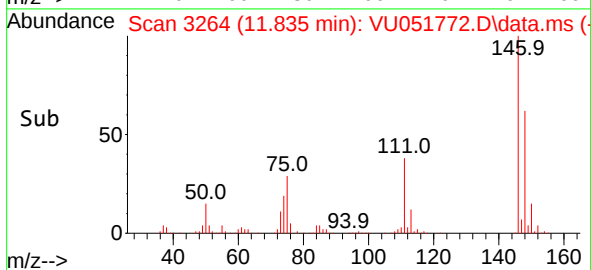
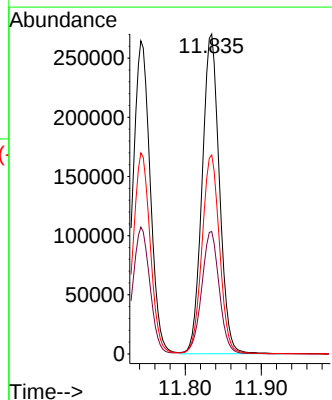
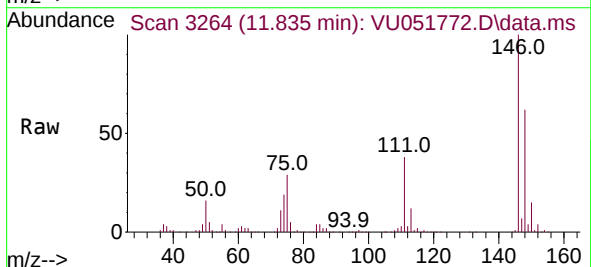
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

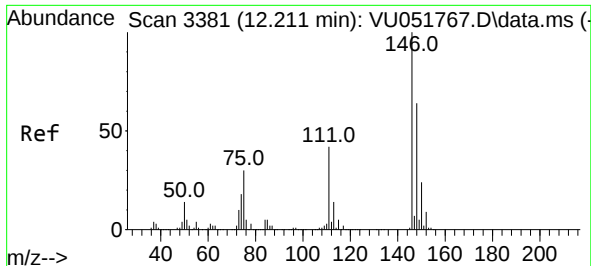
Tgt Ion:146 Resp: 417867  
Ion Ratio Lower Upper  
146 100  
111 40.5 28.7 53.3  
148 64.3 43.2 80.2



#65  
1,4-Dichlorobenzene  
Concen: 47.753 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion:146 Resp: 426907  
Ion Ratio Lower Upper  
146 100  
111 38.2 28.9 53.7  
148 62.2 44.6 82.8

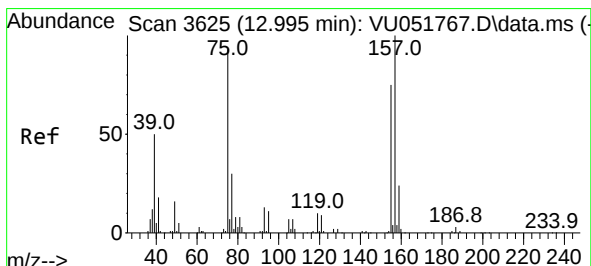
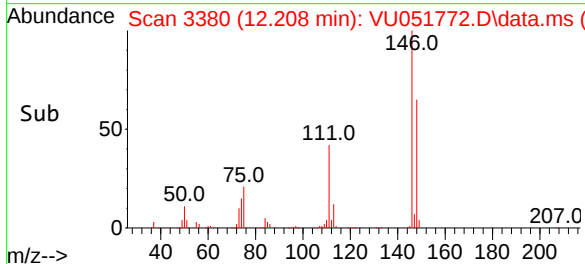
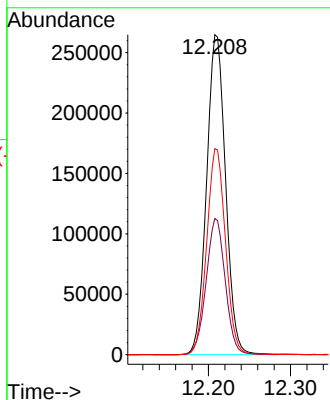
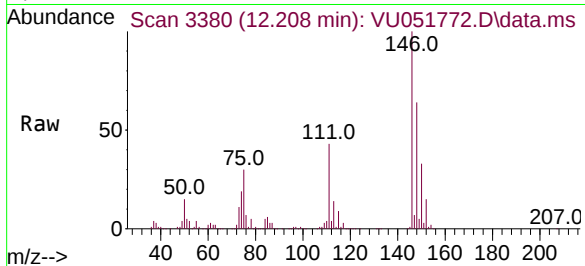




#67  
1,2-Dichlorobenzene  
Concen: 47.100 ug/L  
RT: 12.208 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

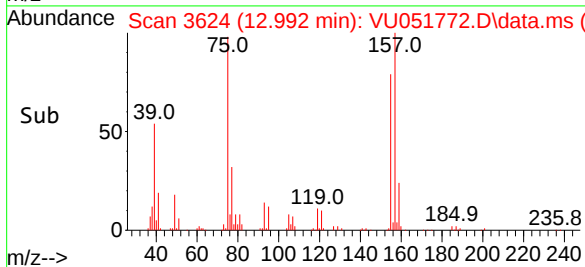
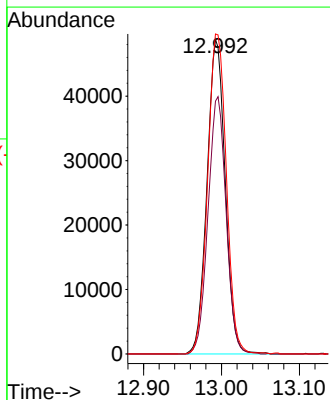
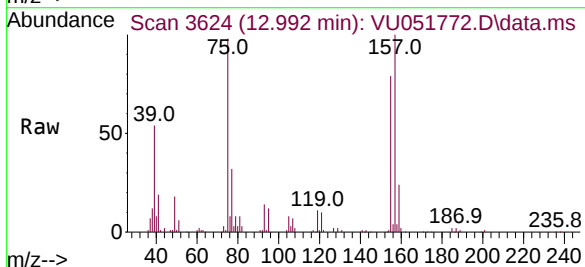
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

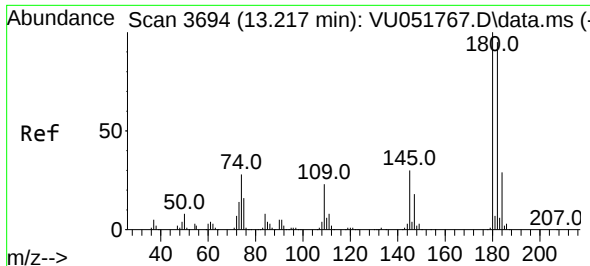
Tgt Ion:146 Resp: 426506  
Ion Ratio Lower Upper  
146 100  
111 42.6 35.3 52.9  
148 64.4 51.1 76.7



#68  
1,2-Dibromo-3-chloropropane  
Concen: 41.747 ug/L  
RT: 12.992 min Scan# 3624  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

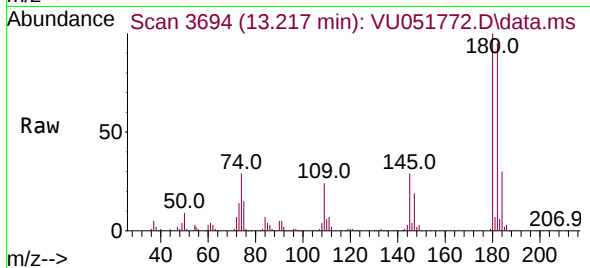
Tgt Ion: 75 Resp: 79185  
Ion Ratio Lower Upper  
75 100  
155 80.4 62.5 93.7  
157 101.7 81.6 122.4



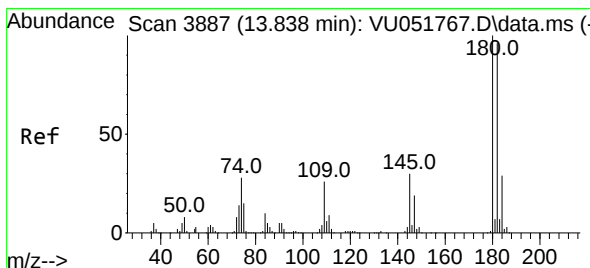
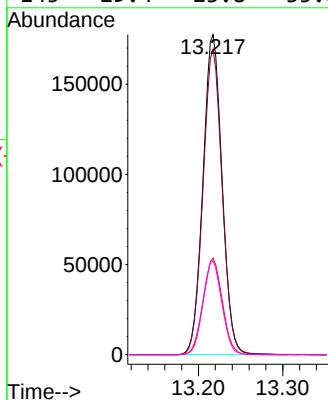
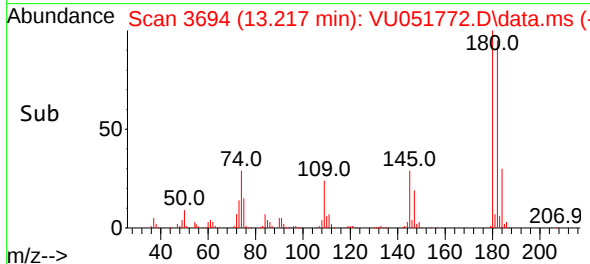


#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.145 ug/L  
 RT: 13.217 min Scan# 3694  
 Delta R.T. 0.000 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47

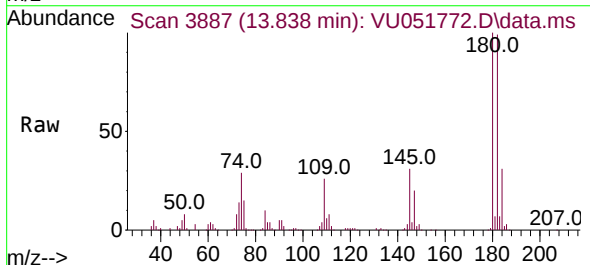
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050119



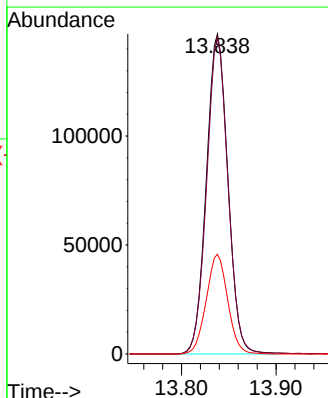
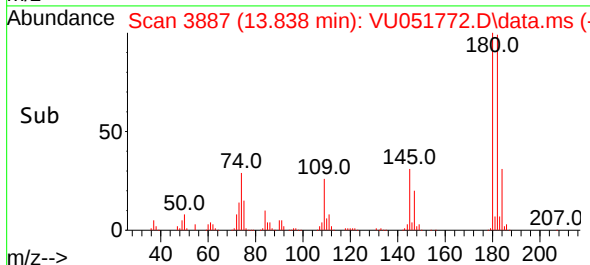
Tgt Ion:180 Resp: 280757  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 75.6 113.4  
 184 30.0 23.9 35.9  
 145 29.4 23.8 35.8

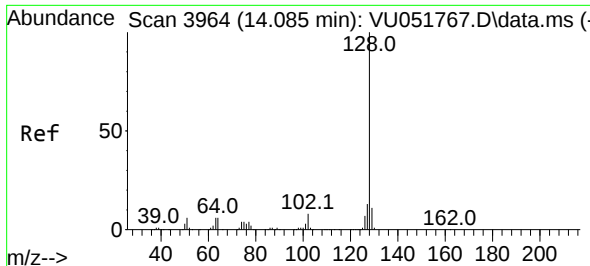


#70  
 1,2,4-trichlorobenzene  
 Concen: 51.846 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. 0.000 min  
 Lab File: VU051772.D  
 Acq: 07 Nov 2022 16:47



Tgt Ion:180 Resp: 232772  
 Ion Ratio Lower Upper  
 180 100  
 182 97.5 76.2 114.4  
 145 31.0 25.0 37.6

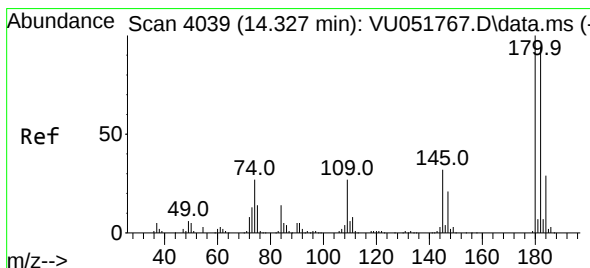
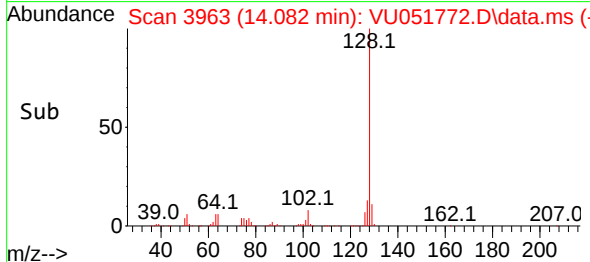
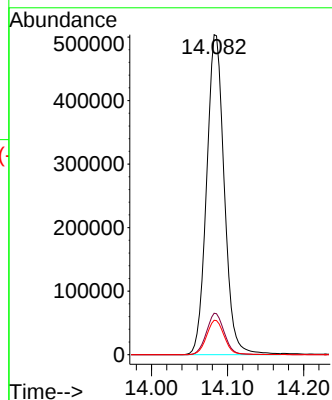
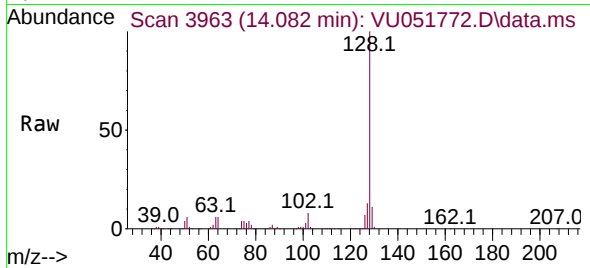




#71  
Naphthalene  
Concen: 56.596 ug/L  
RT: 14.082 min Scan# 3964  
Delta R.T. -0.003 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050119

Tgt Ion:128 Resp: 813282  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.8 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 55.025 ug/L  
RT: 14.327 min Scan# 4039  
Delta R.T. 0.000 min  
Lab File: VU051772.D  
Acq: 07 Nov 2022 16:47

Tgt Ion:180 Resp: 265191  
Ion Ratio Lower Upper  
180 100  
182 94.5 75.4 113.2  
145 32.5 25.3 37.9

