

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081522\  
 Data File : VU050332.D  
 Acq On : 15 Aug 2022 09:41  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 16 00:26:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080422WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sun Aug 14 01:24:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250  | 114   | 111469   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417  | 117   | 108547   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.813 | 152   | 52158    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.598  | 65    | 38907    | 4.194    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 83.800%  |
| 7) Chloroethane-d5            | 1.913  | 69    | 33331    | 4.453    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.562  | 65    | 14430    | 3.980    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 79.600%  |
| 20) 2-Butanone-d5             | 4.643  | 46    | 114352   | 50.550   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 101.100% |
| 24) Chloroform-d              | 5.064  | 84    | 74442    | 4.314    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.704  | 65    | 37963    | 4.285    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 85.800%  |
| 32) Benzene-d6                | 5.726  | 84    | 136622   | 4.033    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 80.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.691  | 67    | 47056    | 4.219    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 84.400%  |
| 41) Toluene-d8                | 7.896  | 98    | 118656   | 3.966    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.400%  |
| 43) trans-1,3-Dichloroprop... | 8.179  | 79    | 16561    | 4.143    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 82.800%  |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 65153    | 45.963   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 91.920%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 42369    | 4.325    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 86.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192 | 152   | 39386    | 3.854    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 77.000%# |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 52394    | 5.127    | ug/L   | 99       |
| 3) Chloromethane              | 1.520  | 50    | 58748    | 4.395    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604  | 62    | 60158    | 5.024    | ug/L   | 99       |
| 6) Bromomethane               | 1.858  | 94    | 36774    | 4.811    | ug/L   | 99       |
| 8) Chloroethane               | 1.935  | 64    | 35064    | 4.969    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.138  | 101   | 71529    | 5.454    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575  | 101   | 42781    | 5.864    | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.575  | 96    | 39716    | 5.155    | ug/L   | 91       |
| 13) Acetone                   | 2.655  | 43    | 77800    | 61.755   | ug/L   | 93       |
| 14) Carbon disulfide          | 2.790  | 76    | 126592   | 4.600    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.961  | 43    | 20357    | 5.918    | ug/L   | 92       |
| 16) Methylene chloride        | 3.044  | 84    | 50216    | 4.265    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 3.366  | 73    | 94797    | 4.714    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.350  | 96    | 42117    | 4.882    | ug/L   | 95       |
| 19) 1,1-Dichloroethane        | 3.871  | 63    | 83563    | 5.115    | ug/L   | 99       |
| 21) 2-Butanone                | 4.720  | 43    | 127105   | 56.106   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.668  | 96    | 47641    | 4.975    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.974  | 128   | 22379    | 4.890    | ug/L   | 95       |
| 25) Chloroform                | 5.089  | 83    | 87224    | 5.008    | ug/L   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081522\  
 Data File : VU050332.D  
 Acq On : 15 Aug 2022 09:41  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

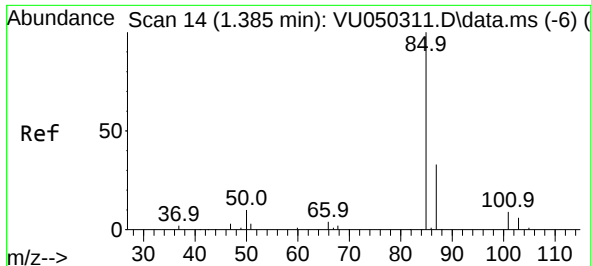
Quant Time: Aug 16 00:26:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080422WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sun Aug 14 01:24:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.797  | 62   | 50652    | 4.778  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.318  | 97   | 71311    | 5.355  | ug/L  | 99       |
| 30) Cyclohexane               | 5.388  | 56   | 62558    | 5.392  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 59924    | 5.490  | ug/L  | 100      |
| 33) Benzene                   | 5.774  | 78   | 192057   | 5.050  | ug/L  | 100      |
| 34) Trichloroethene           | 6.543  | 95   | 45956    | 4.996  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.765  | 83   | 66342    | 5.587  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 51925    | 5.126  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.105  | 83   | 62720    | 5.097  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.607  | 75   | 64921    | 4.911  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.793  | 43   | 293284   | 49.985 | ug/L  | 99       |
| 42) Toluene                   | 7.970  | 91   | 198084   | 5.193  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.211  | 75   | 55703    | 4.913  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.401  | 97   | 37166    | 4.908  | ug/L  | 96       |
| 47) Tetrachloroethene         | 8.552  | 164  | 34612    | 5.252  | ug/L  | 100      |
| 48) 2-Hexanone                | 8.687  | 43   | 230404   | 50.770 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.810  | 129  | 42277    | 5.044  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.925  | 107  | 33613    | 4.895  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.446  | 112  | 119328   | 4.972  | ug/L  | 97       |
| 52) Ethylbenzene              | 9.572  | 91   | 190599   | 5.121  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.694  | 106  | 73826    | 5.386  | ug/L  | 97       |
| 54) o-Xylene                  | 10.099 | 106  | 71883    | 5.254  | ug/L  | 99       |
| 55) Styrene                   | 10.115 | 104  | 120144   | 5.256  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 49063    | 4.931  | ug/L  | 100      |
| 59) Bromoform                 | 10.292 | 173  | 24035    | 4.595  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.485 | 105  | 182804   | 5.248  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.822 | 75   | 33759    | 4.751  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 48719    | 4.950  | ug/L  | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.469 | 105  | 137262   | 5.119  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.745 | 146  | 86633    | 4.934  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 86350    | 5.055  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 84535    | 4.972  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.996 | 75   | 6781     | 4.867  | ug/L  | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.218 | 180  | 62400    | 4.989  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 48156    | 5.082  | ug/L  | 98       |
| 71) Naphthalene               | 14.086 | 128  | 89529    | 4.607  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 48610    | 5.060  | ug/L  | 100      |

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

Quant Time: Aug 16 00:26:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080422WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sun Aug 14 01:24:58 2022  
Response via : Initial Calibration

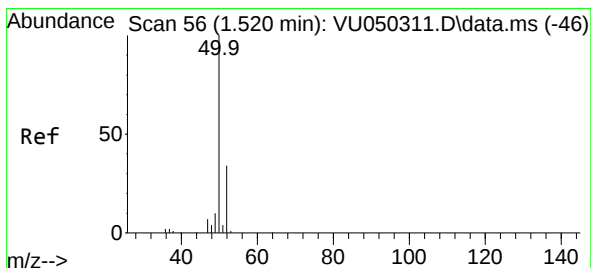
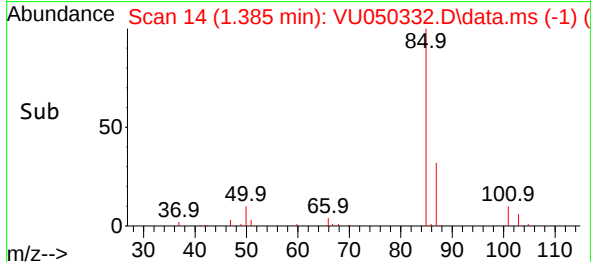
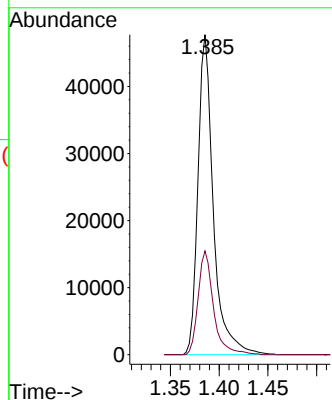
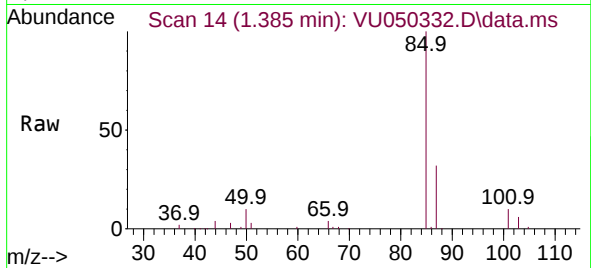




#2  
 Dichlorodifluoromethane  
 Concen: 5.127 ug/L  
 RT: 1.385 min Scan# 14  
 Delta R.T. 0.000 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

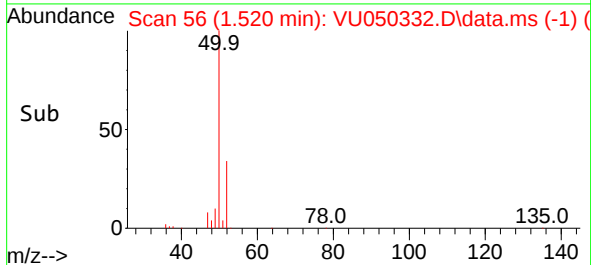
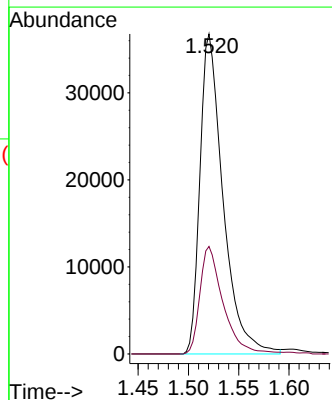
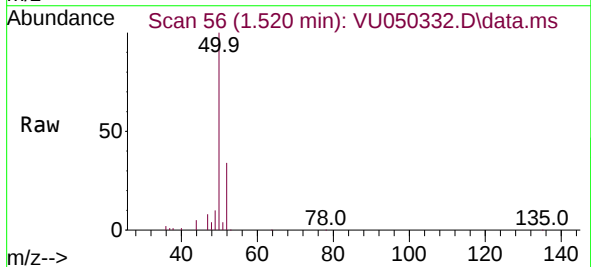
Instrument :  
 MSVOA\_U  
 ClientSampleId :

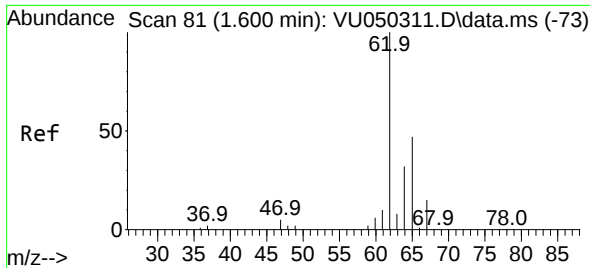
Tgt Ion: 85 Resp: 52394  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 26.2 39.4



#3  
 Chloromethane  
 Concen: 4.395 ug/L  
 RT: 1.520 min Scan# 56  
 Delta R.T. 0.000 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

Tgt Ion: 50 Resp: 58748  
 Ion Ratio Lower Upper  
 50 100  
 52 33.6 23.2 43.2

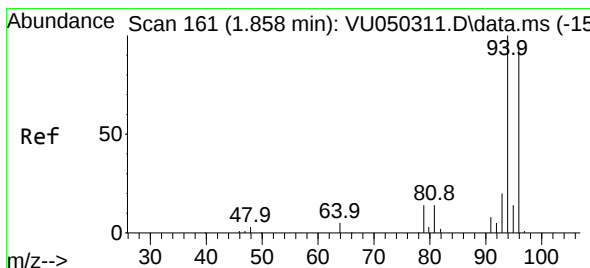
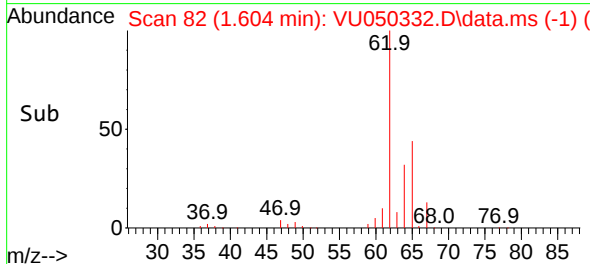
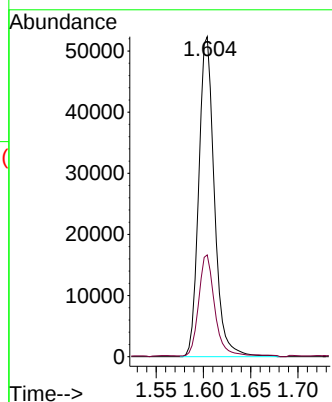
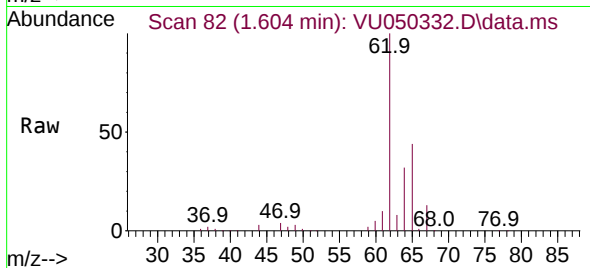




#5  
 Vinyl chloride  
 Concen: 5.024 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. 0.004 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

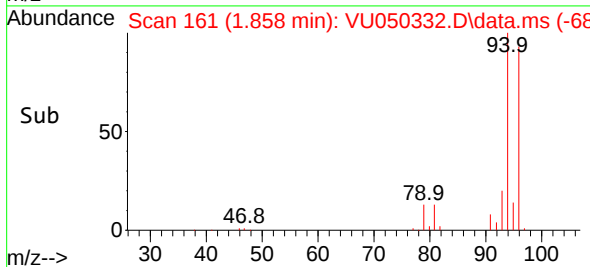
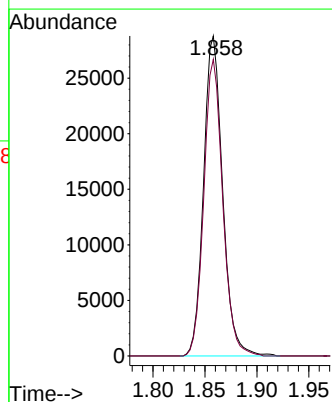
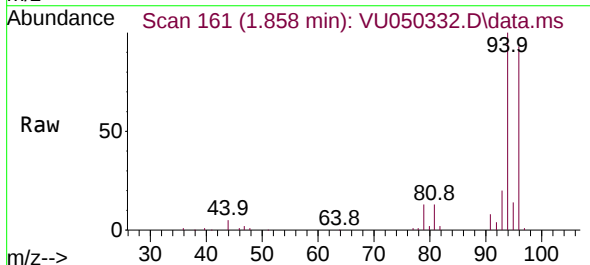
Instrument :  
 MSVOA\_U  
 ClientSampleId :

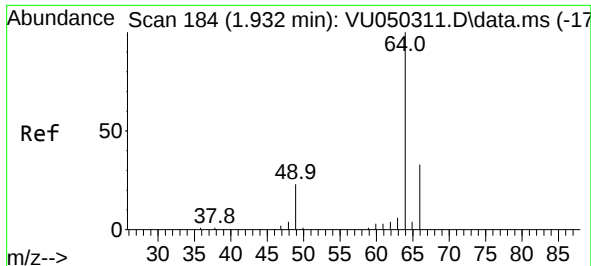
Tgt Ion: 62 Resp: 60158  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 22.8 42.4



#6  
 Bromomethane  
 Concen: 4.811 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. 0.000 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

Tgt Ion: 94 Resp: 36774  
 Ion Ratio Lower Upper  
 94 100  
 96 92.7 65.3 121.3

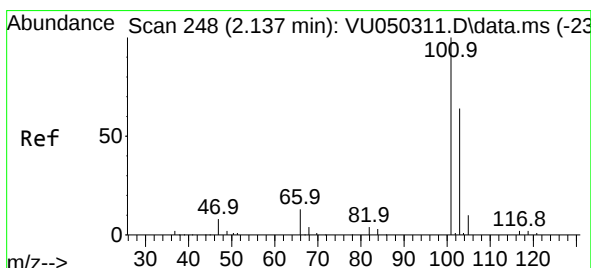
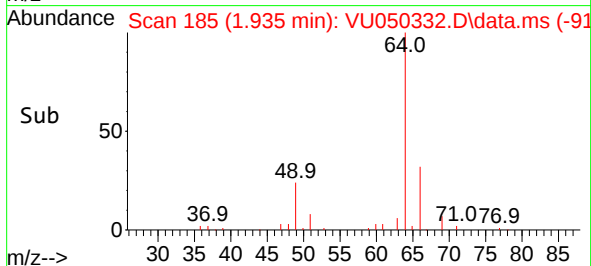
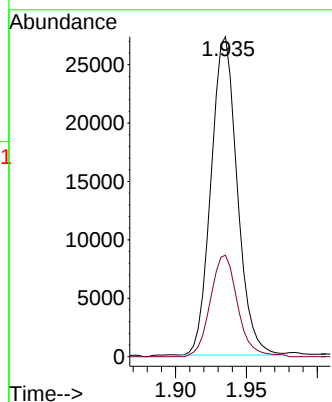
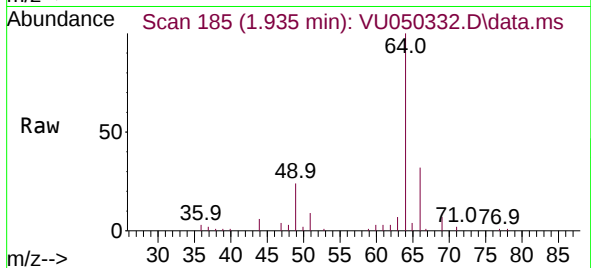




#8  
Chloroethane  
Concen: 4.969 ug/L  
RT: 1.935 min Scan# 184  
Delta R.T. 0.004 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

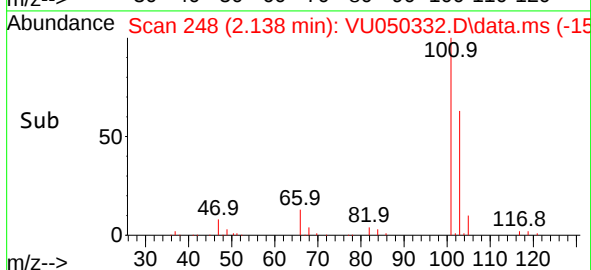
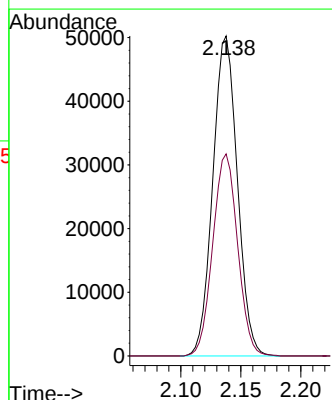
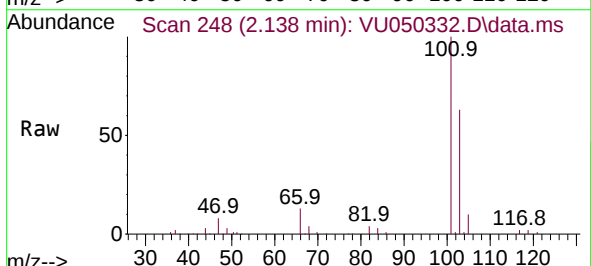
Instrument :  
MSVOA\_U  
ClientSampleId :

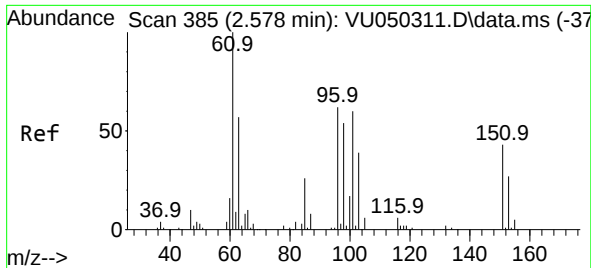
Tgt Ion: 64 Resp: 35064  
Ion Ratio Lower Upper  
64 100  
66 31.7 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 5.454 ug/L  
RT: 2.138 min Scan# 248  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 101 Resp: 71529  
Ion Ratio Lower Upper  
101 100  
103 63.8 52.6 78.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.864 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

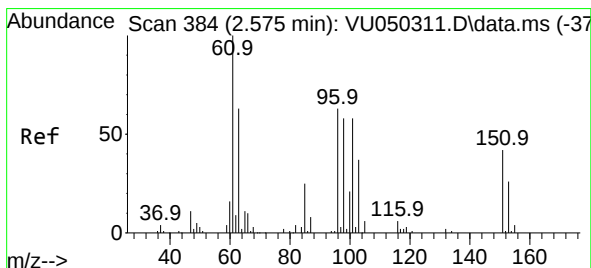
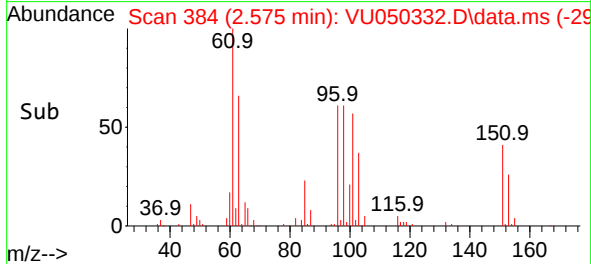
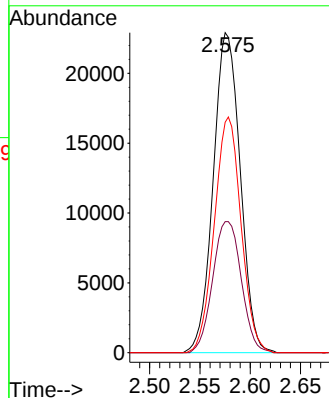
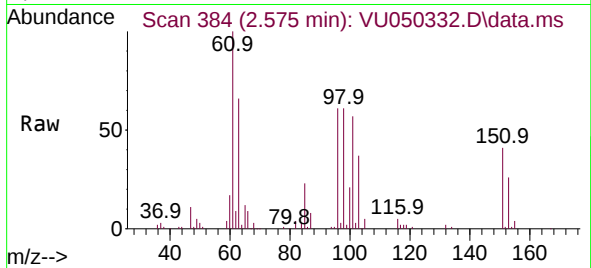
Tgt Ion:101 Resp: 42781

Ion Ratio Lower Upper

101 100

85 43.4 35.6 53.4

151 73.0 55.2 82.8



#12

1,1-Dichloroethene

Concen: 5.155 ug/L

RT: 2.575 min Scan# 384

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

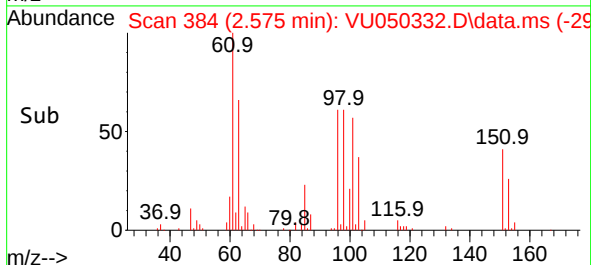
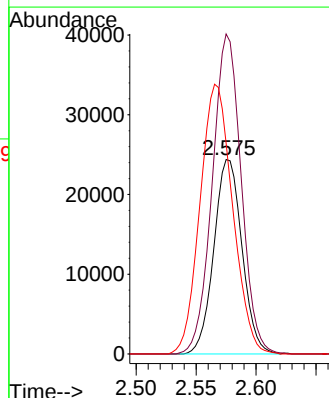
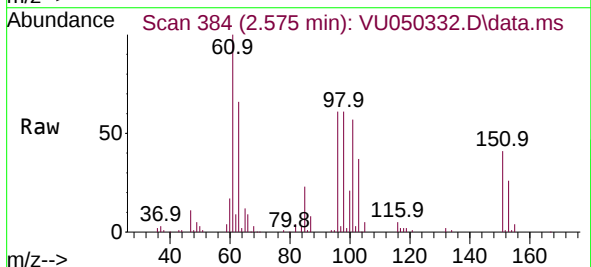
Tgt Ion: 96 Resp: 39716

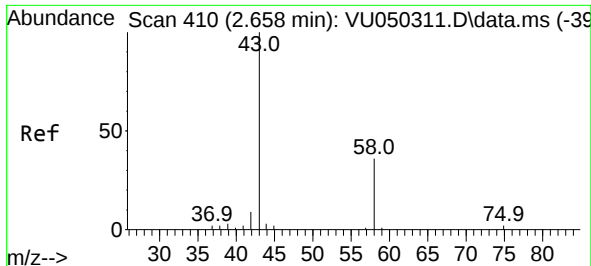
Ion Ratio Lower Upper

96 100

61 164.5 122.7 227.9

63 108.3 85.1 158.1

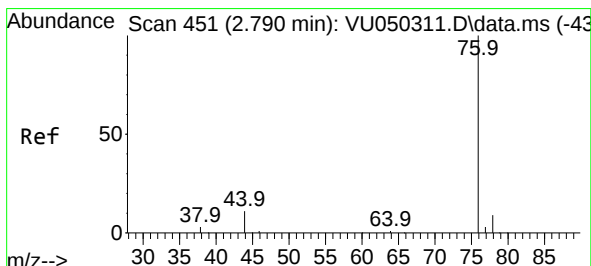
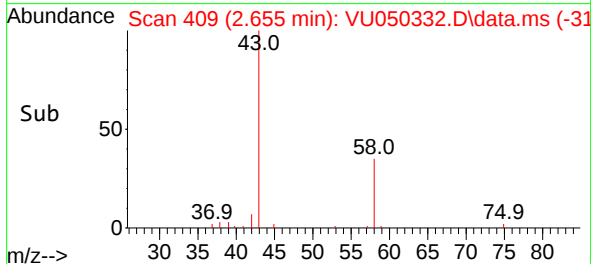
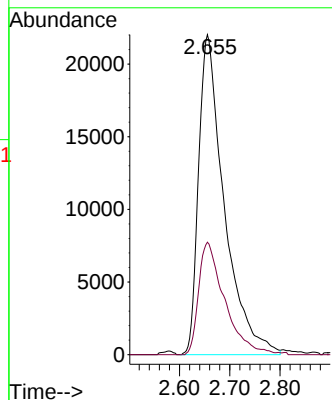
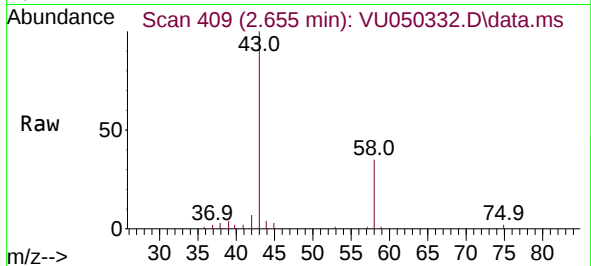




#13  
Acetone  
Concen: 61.755 ug/L  
RT: 2.655 min Scan# 409  
Delta R.T. -0.003 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

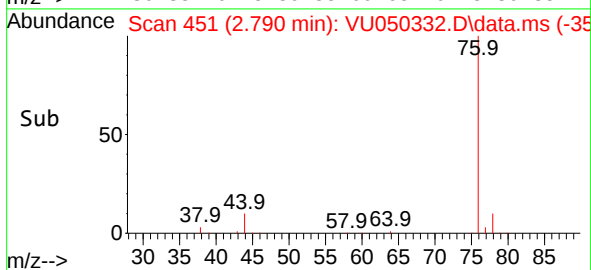
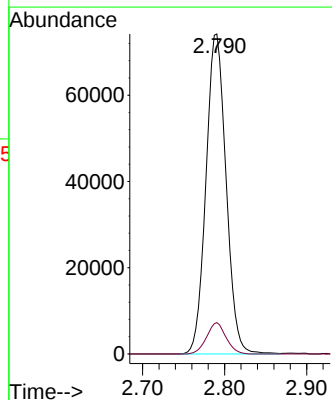
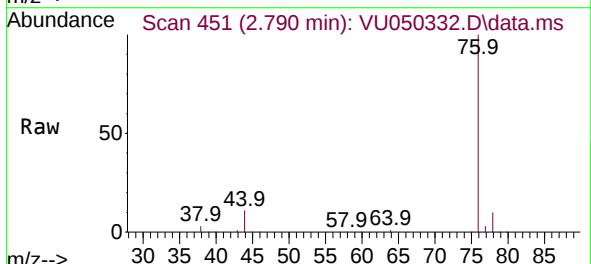
Instrument :  
MSVOA\_U  
ClientSampleId :

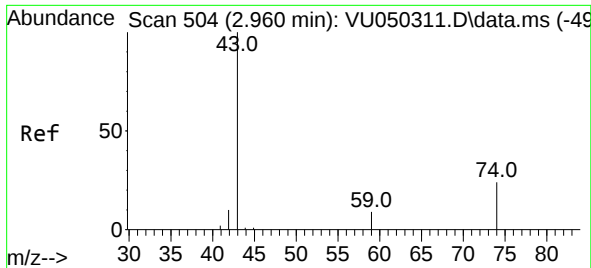
Tgt Ion: 43 Resp: 77800  
Ion Ratio Lower Upper  
43 100  
58 35.7 0.0 64.0



#14  
Carbon disulfide  
Concen: 4.600 ug/L  
RT: 2.790 min Scan# 451  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 76 Resp: 126592  
Ion Ratio Lower Upper  
76 100  
78 9.8 7.4 11.0

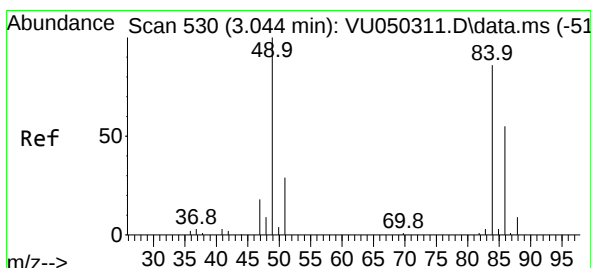
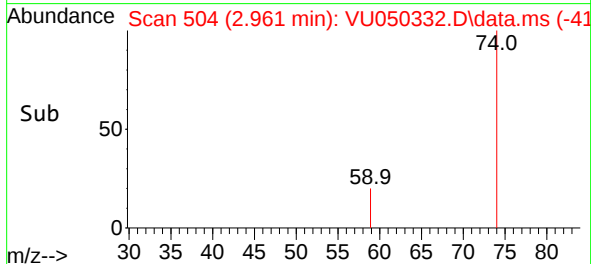
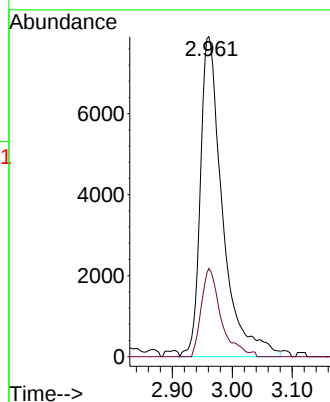
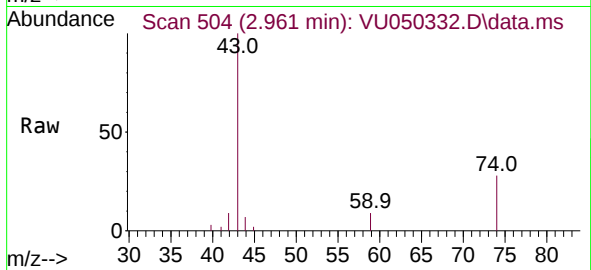




#15  
Methyl Acetate  
Concen: 5.918 ug/L  
RT: 2.961 min Scan# 504  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

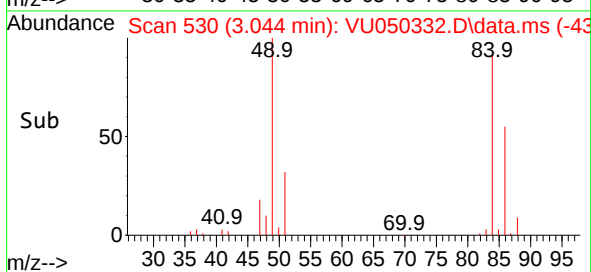
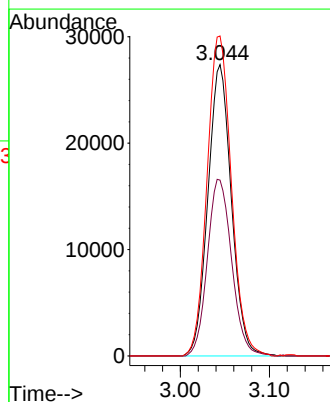
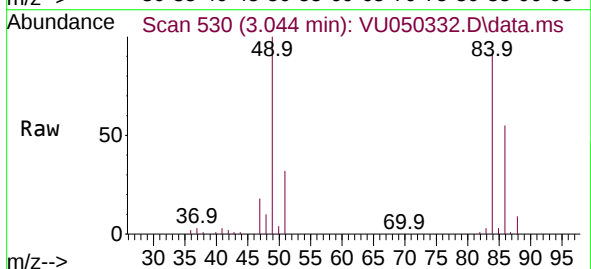
Instrument :  
MSVOA\_U  
ClientSampleId :

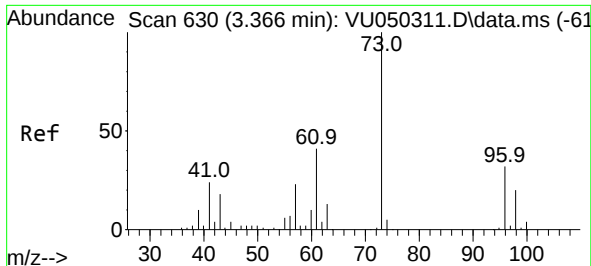
Tgt Ion: 43 Resp: 20357  
Ion Ratio Lower Upper  
43 100  
74 24.2 22.7 34.1



#16  
Methylene chloride  
Concen: 4.265 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 84 Resp: 50216  
Ion Ratio Lower Upper  
84 100  
86 60.4 45.9 85.3  
49 109.8 77.6 144.0





#17

Methyl tert-butyl Ether

Concen: 4.714 ug/L

RT: 3.366 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU050332.D

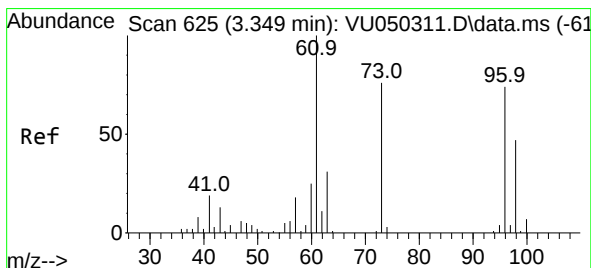
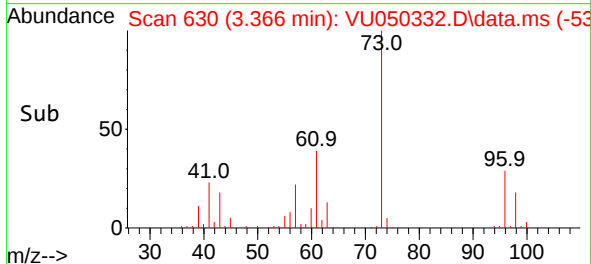
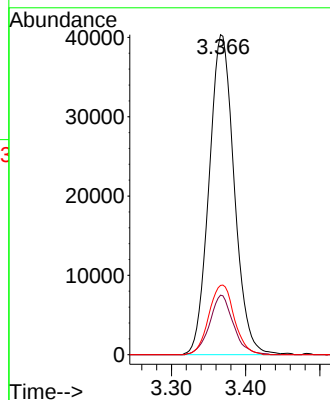
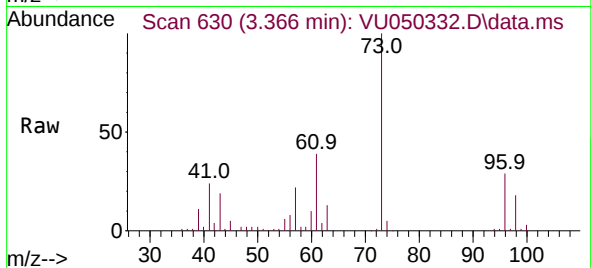
Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 73 | Resp: 94797    |
| Ion Ratio   | Lower Upper    |
| 73          | 100            |
| 43          | 17.7 13.5 20.3 |
| 57          | 22.0 17.4 26.2 |



#18

trans-1,2-Dichloroethene

Concen: 4.882 ug/L

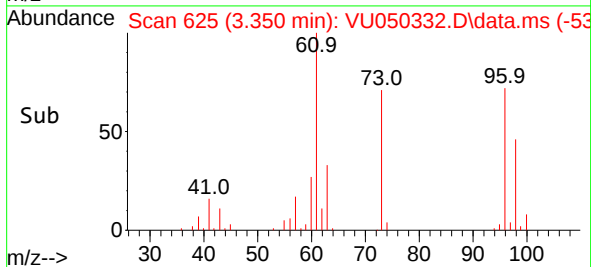
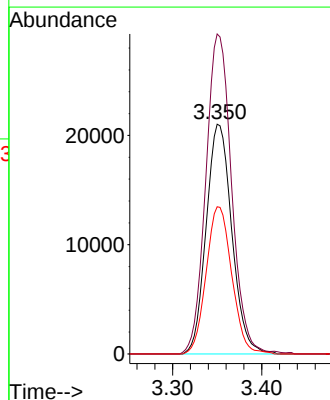
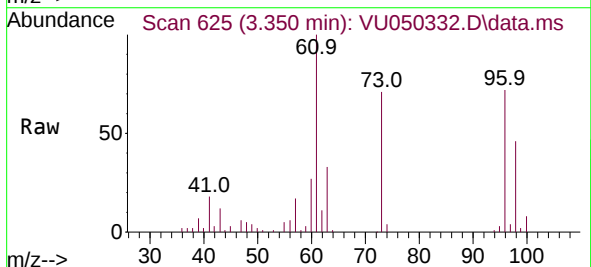
RT: 3.350 min Scan# 625

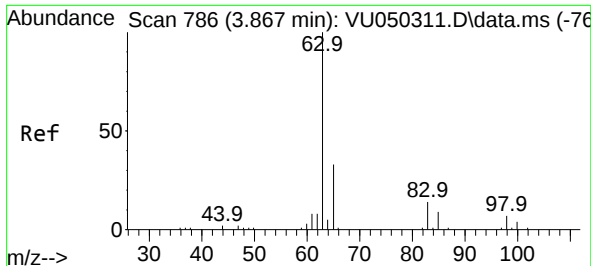
Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

|             |                  |
|-------------|------------------|
| Tgt Ion: 96 | Resp: 42117      |
| Ion Ratio   | Lower Upper      |
| 96          | 100              |
| 61          | 139.3 92.3 171.5 |
| 98          | 64.1 43.2 80.2   |





#19

1,1-Dichloroethane

Concen: 5.115 ug/L

RT: 3.871 min Scan# 786

Delta R.T. 0.004 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

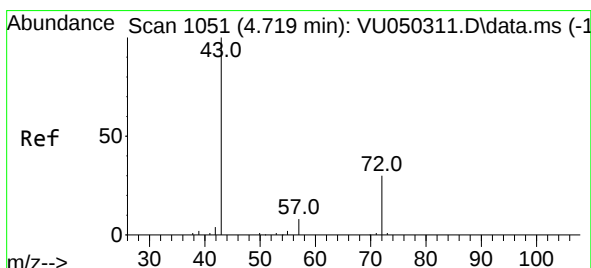
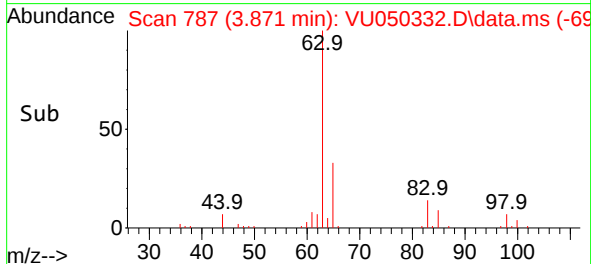
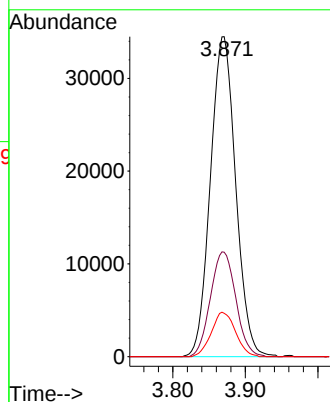
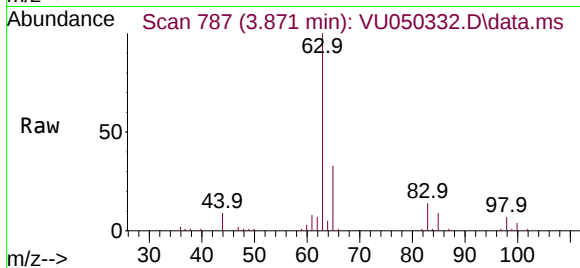
Tgt Ion: 63 Resp: 83563

Ion Ratio Lower Upper

63 100

65 32.7 22.7 42.3

83 13.6 9.8 18.2



#21

2-Butanone

Concen: 56.106 ug/L

RT: 4.720 min Scan# 1051

Delta R.T. 0.000 min

Lab File: VU050332.D

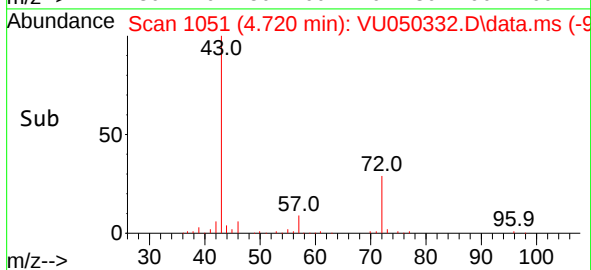
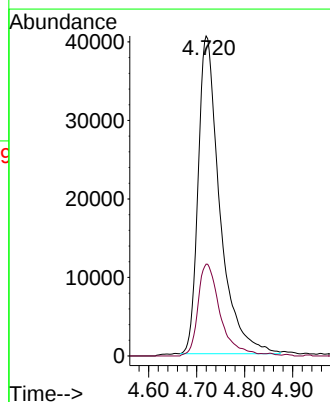
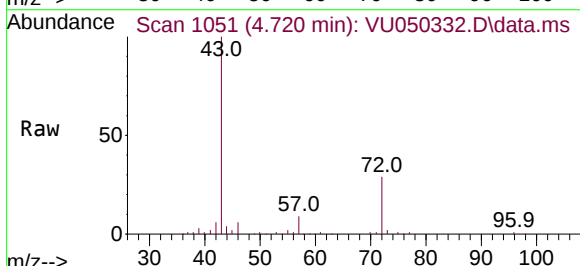
Acq: 15 Aug 2022 09:41

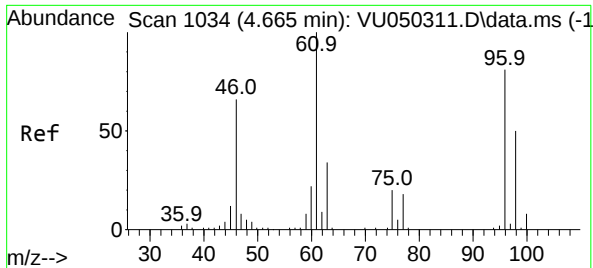
Tgt Ion: 43 Resp: 127105

Ion Ratio Lower Upper

43 100

72 29.5 14.0 42.0





#22

cis-1,2-Dichloroethene

Concen: 4.975 ug/L

RT: 4.668 min Scan# 1034

Delta R.T. 0.004 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

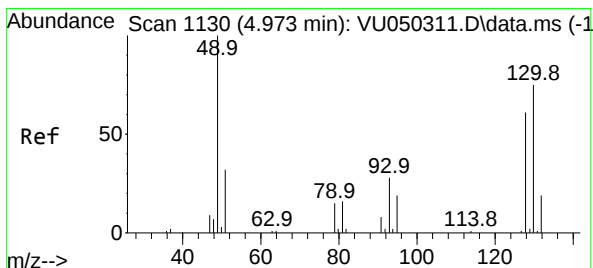
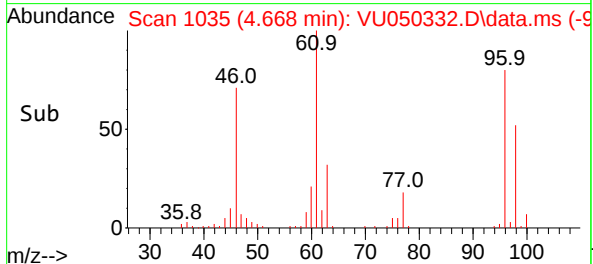
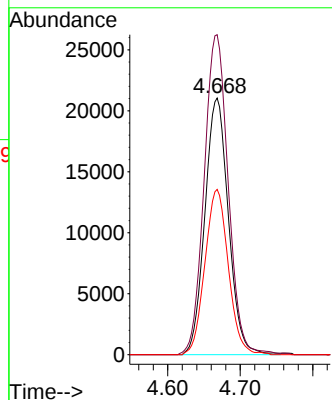
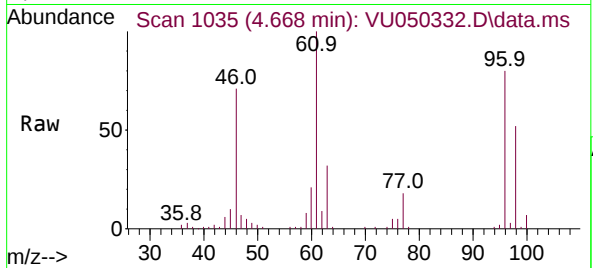
Tgt Ion: 96 Resp: 47641

Ion Ratio Lower Upper

96 100

61 124.7 89.0 165.4

98 64.4 45.2 84.0



#23

Bromochloromethane

Concen: 4.890 ug/L

RT: 4.974 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Tgt Ion:128 Resp: 22379

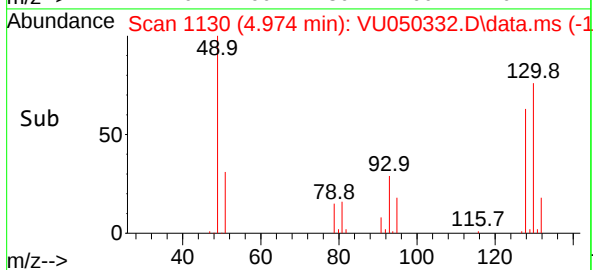
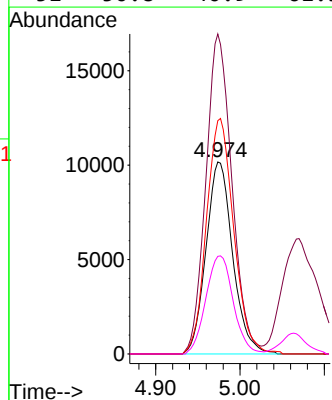
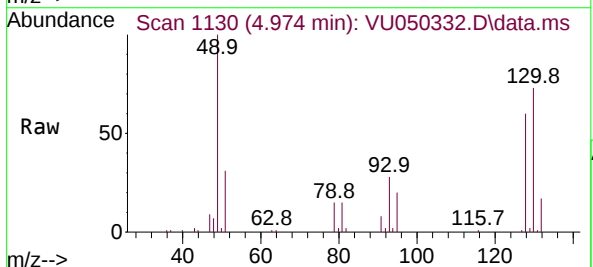
Ion Ratio Lower Upper

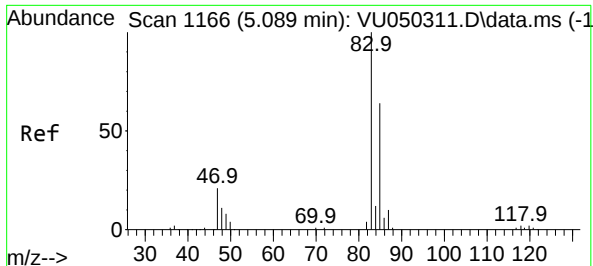
128 100

49 166.6 111.4 206.8

130 121.4 90.2 167.4

51 50.8 40.9 61.3





#25

Chloroform

Concen: 5.008 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

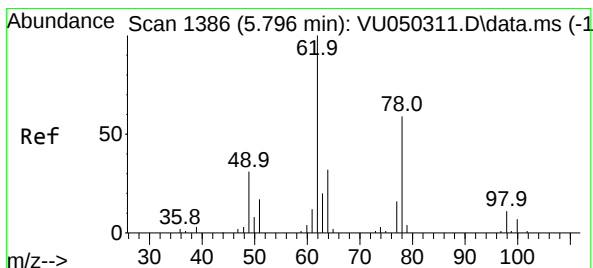
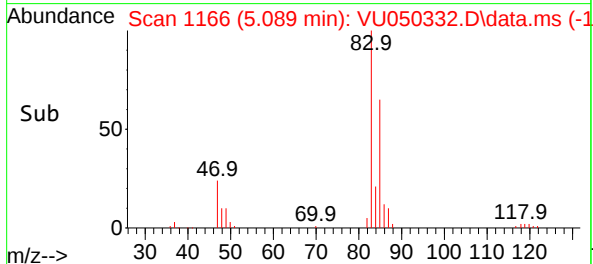
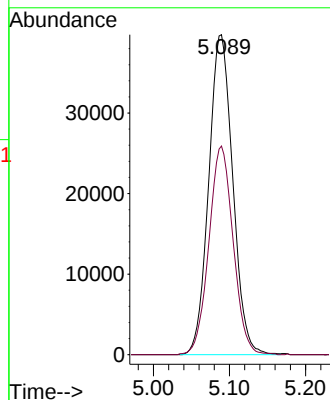
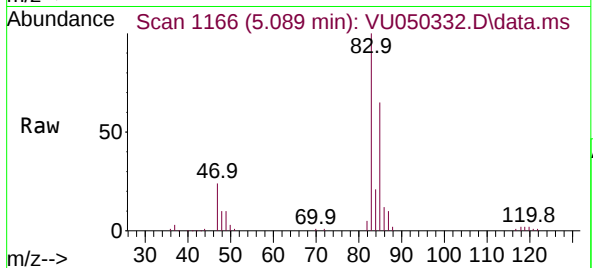
ClientSampleId :

Tgt Ion: 83 Resp: 87224

Ion Ratio Lower Upper

83 100

85 65.2 46.1 85.5



#27

1,2-Dichloroethane

Concen: 4.778 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. 0.000 min

Lab File: VU050332.D

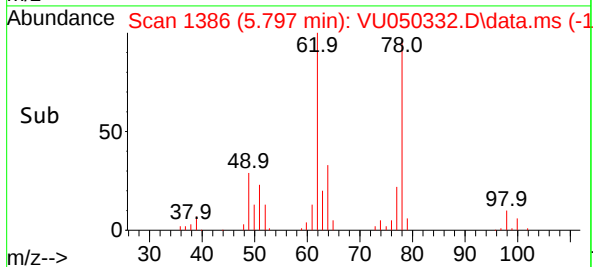
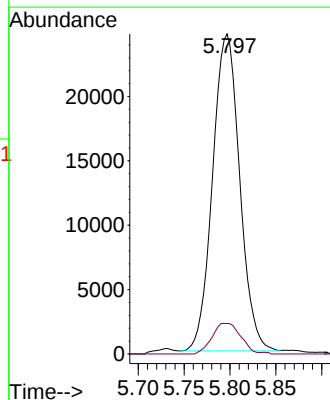
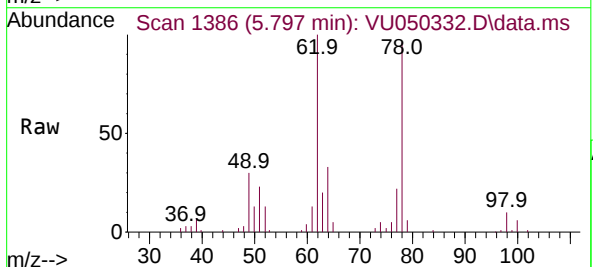
Acq: 15 Aug 2022 09:41

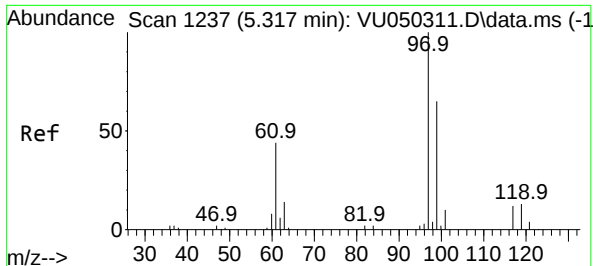
Tgt Ion: 62 Resp: 50652

Ion Ratio Lower Upper

62 100

98 9.5 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 5.355 ug/L

RT: 5.318 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

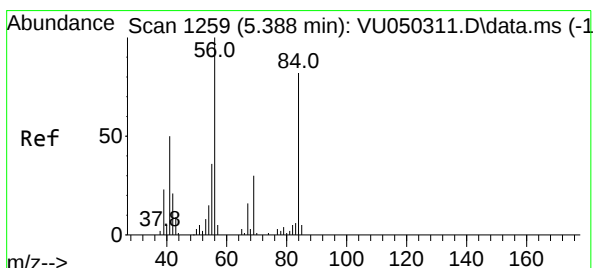
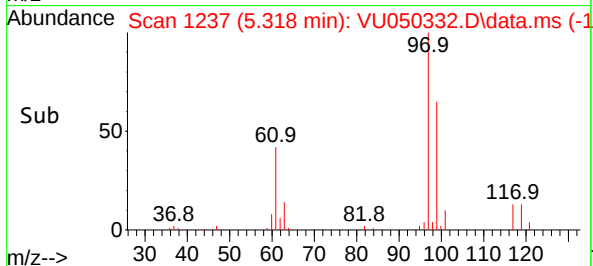
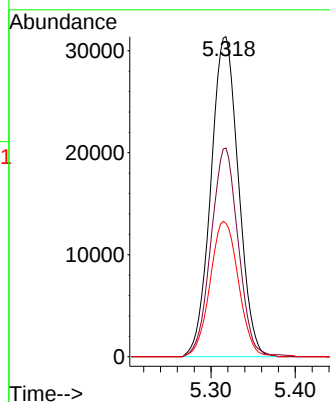
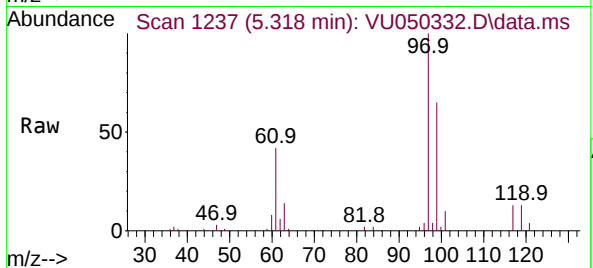
Tgt Ion: 97 Resp: 71311

Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

61 43.6 34.2 51.4



#30

Cyclohexane

Concen: 5.392 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

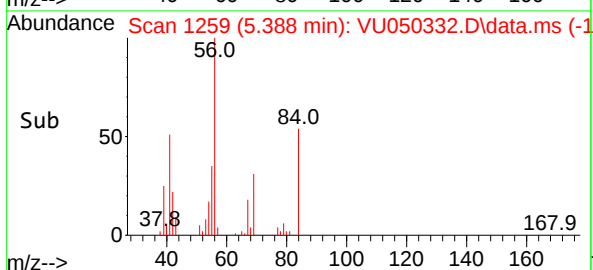
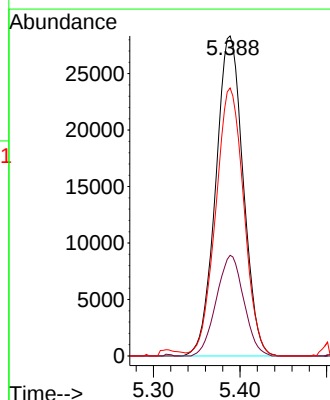
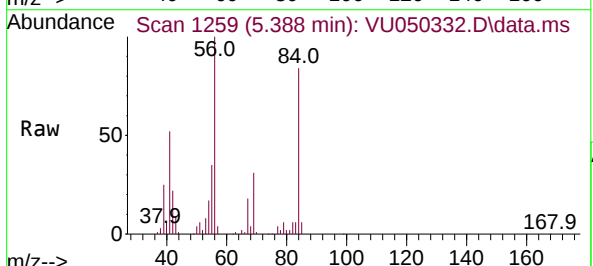
Tgt Ion: 56 Resp: 62558

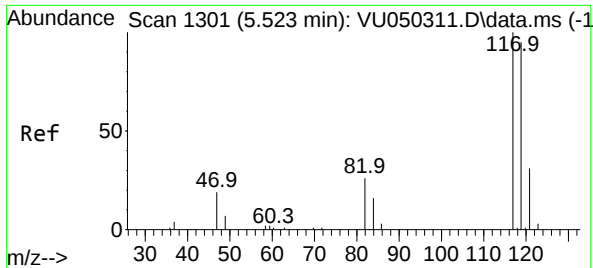
Ion Ratio Lower Upper

56 100

69 31.4 24.6 37.0

84 85.8 69.1 103.7

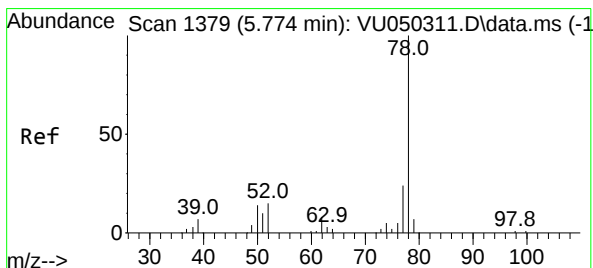
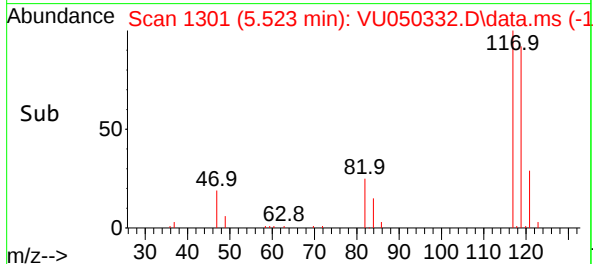
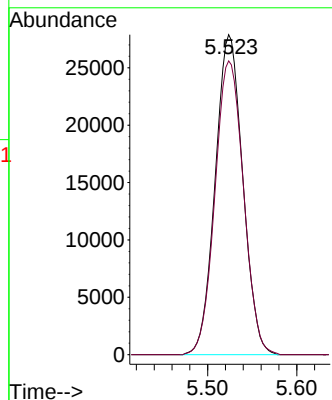
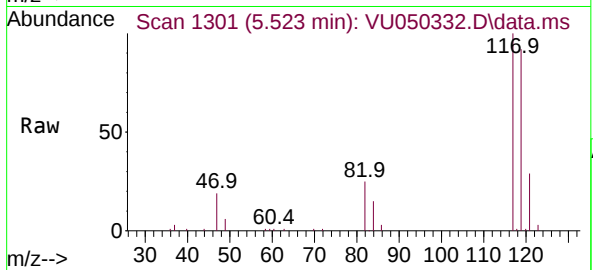




#31  
Carbon tetrachloride  
Concen: 5.490 ug/L  
RT: 5.523 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

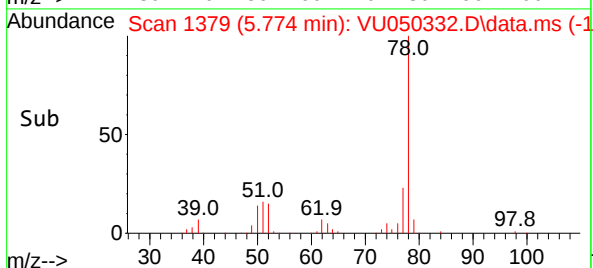
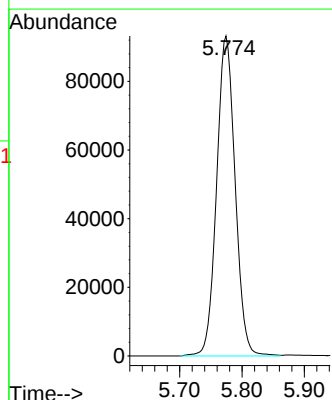
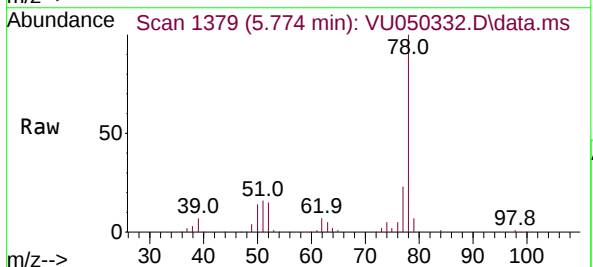
Instrument :  
MSVOA\_U  
ClientSampleId :

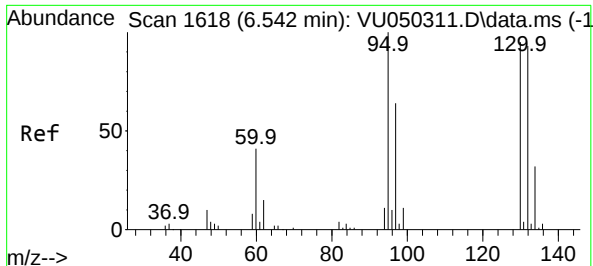
Tgt Ion:117 Resp: 59924  
Ion Ratio Lower Upper  
117 100  
119 95.1 76.0 114.0



#33  
Benzene  
Concen: 5.050 ug/L  
RT: 5.774 min Scan# 1379  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 78 Resp: 192057

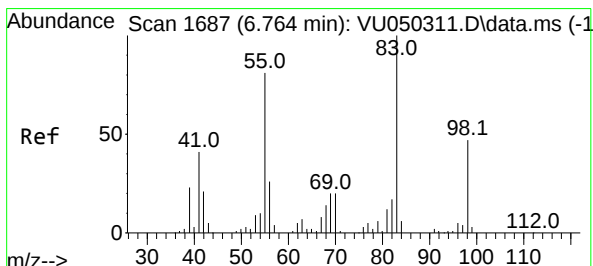
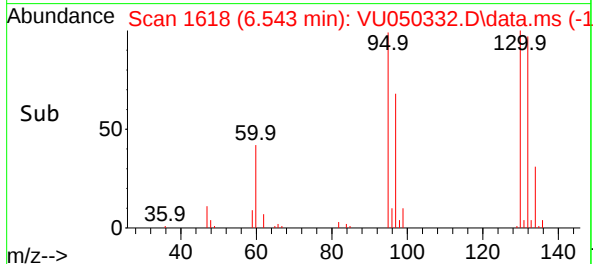
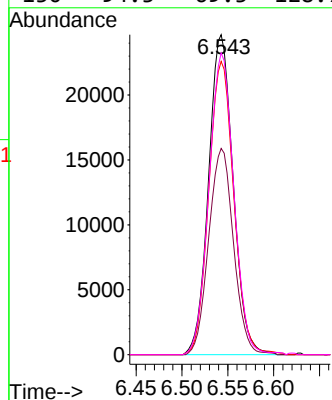
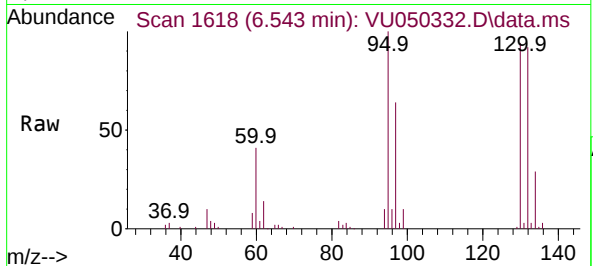




#34  
Trichloroethene  
Concen: 4.996 ug/L  
RT: 6.543 min Scan# 1618  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

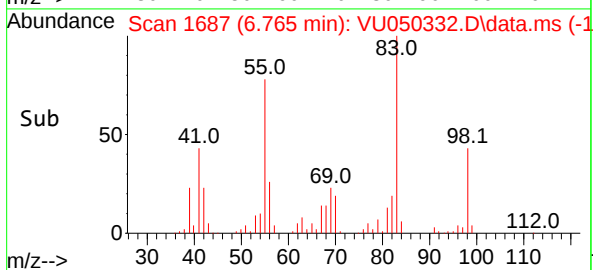
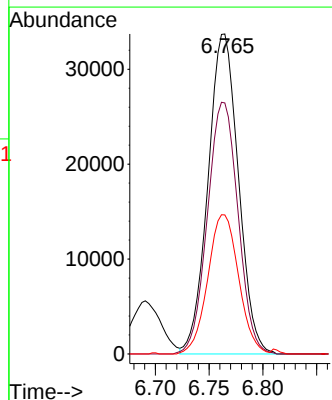
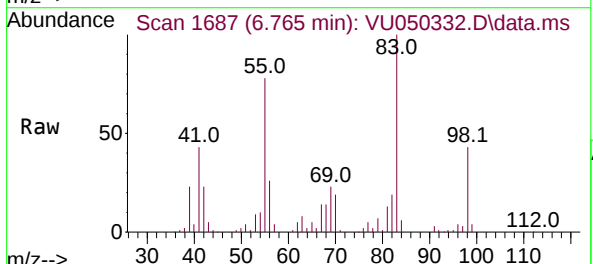
Instrument :  
MSVOA\_U  
ClientSampleId :

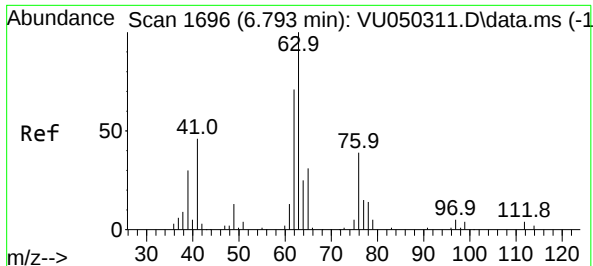
Tgt Ion: 95 Resp: 45956  
Ion Ratio Lower Upper  
95 100  
97 64.5 45.6 84.8  
132 91.7 65.0 120.6  
130 94.3 69.3 128.7



#35  
Methylcyclohexane  
Concen: 5.587 ug/L  
RT: 6.765 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 83 Resp: 66342  
Ion Ratio Lower Upper  
83 100  
55 79.0 62.7 94.1  
98 44.1 36.2 54.2





#37

1,2-Dichloropropane

Concen: 5.126 ug/L

RT: 6.790 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

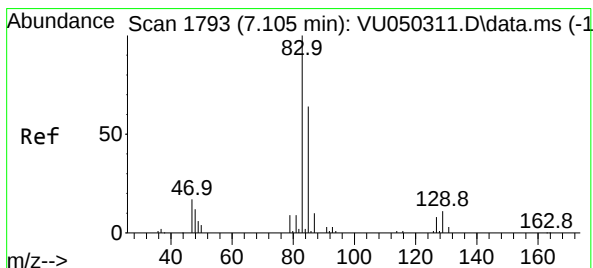
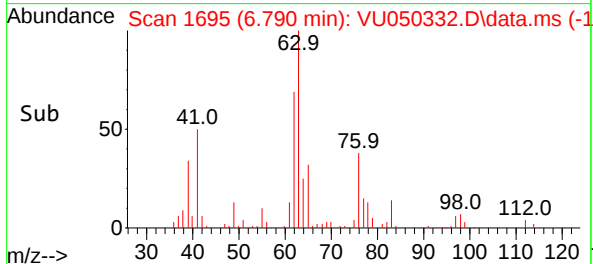
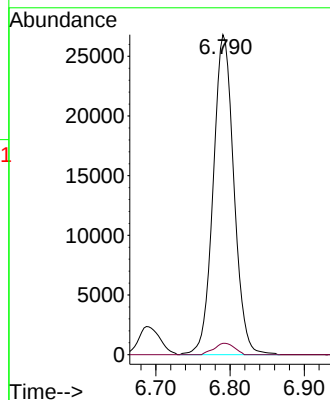
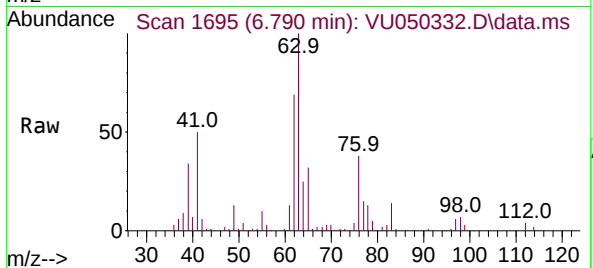
ClientSampleId :

Tgt Ion: 63 Resp: 51925

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.4



#38

Bromodichloromethane

Concen: 5.097 ug/L

RT: 7.105 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

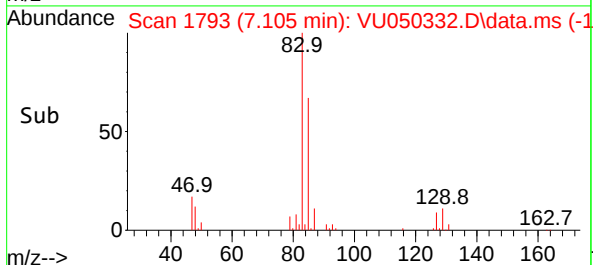
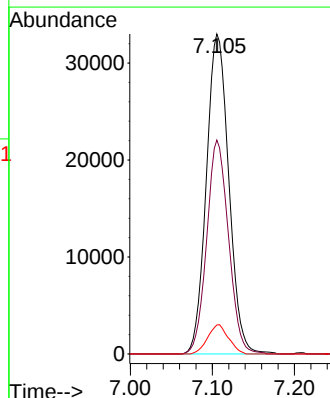
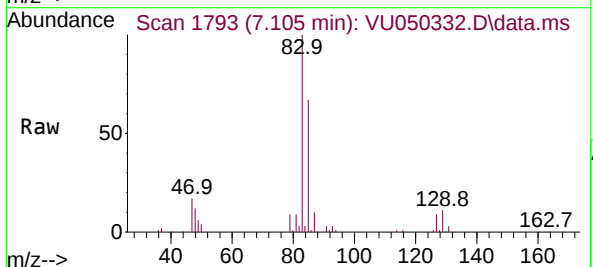
Tgt Ion: 83 Resp: 62720

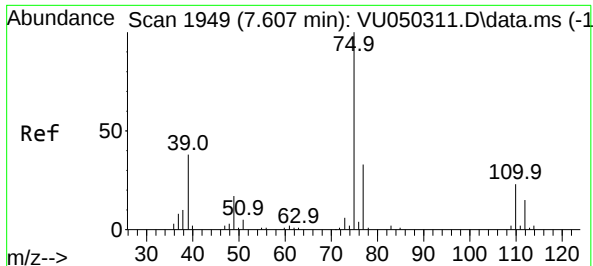
Ion Ratio Lower Upper

83 100

85 66.8 45.1 83.7

127 9.1 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 4.911 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

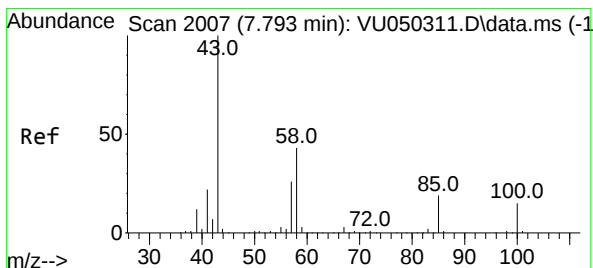
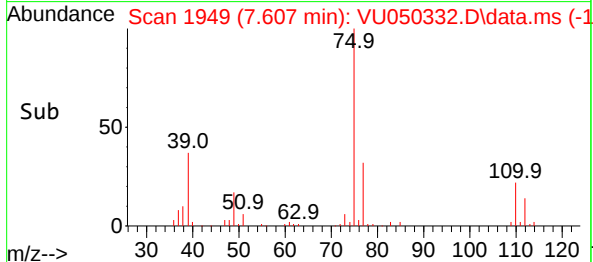
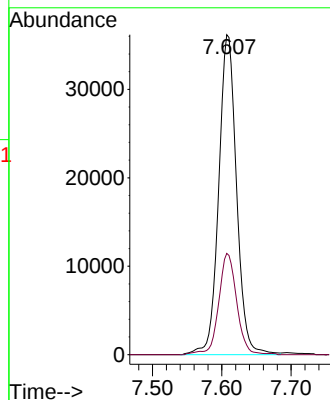
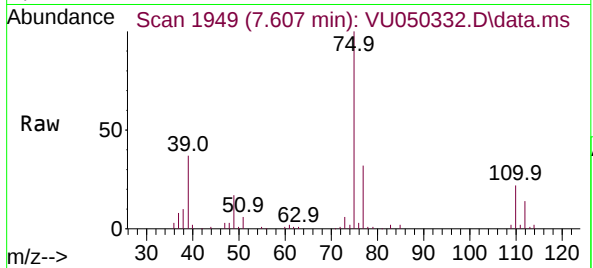
ClientSampleId :

Tgt Ion: 75 Resp: 64921

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.4



#40

4-Methyl-2-pentanone

Concen: 49.985 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

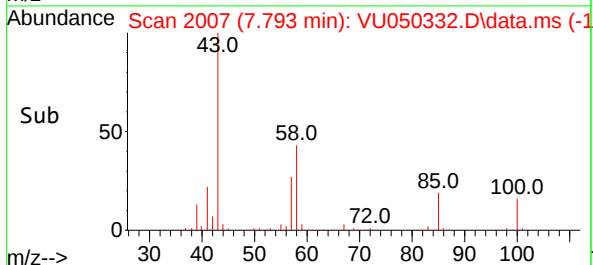
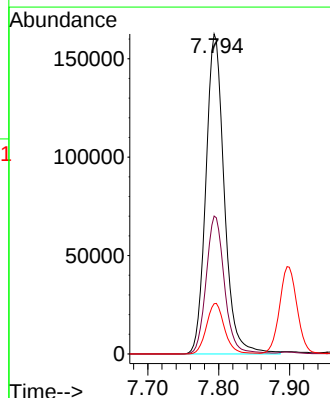
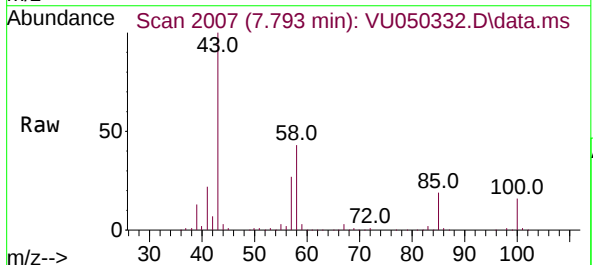
Tgt Ion: 43 Resp: 293284

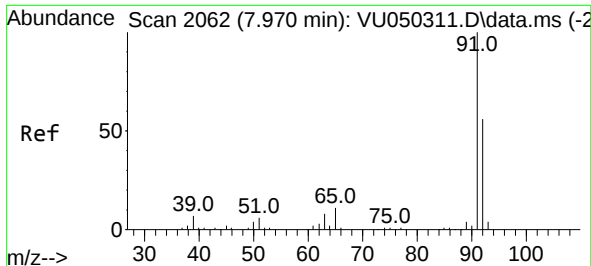
Ion Ratio Lower Upper

43 100

58 43.0 34.6 51.8

100 15.6 13.0 19.4





#42

Toluene

Concen: 5.193 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

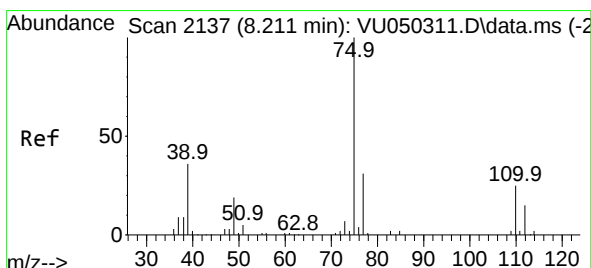
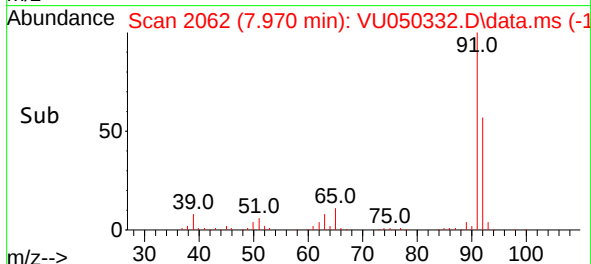
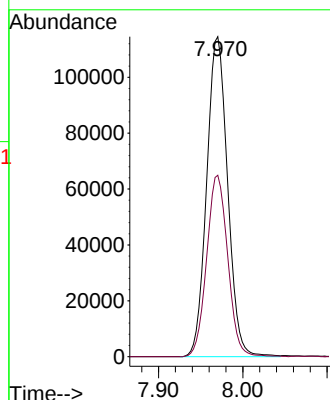
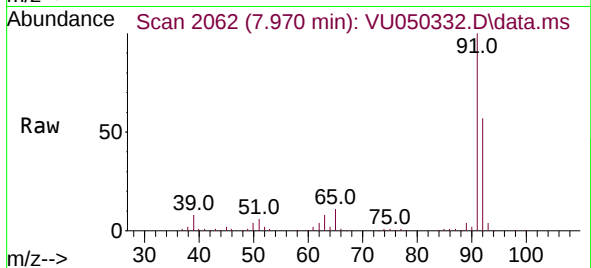
ClientSampleId :

Tgt Ion: 91 Resp: 198084

Ion Ratio Lower Upper

91 100

92 56.7 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 4.913 ug/L

RT: 8.211 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VU050332.D

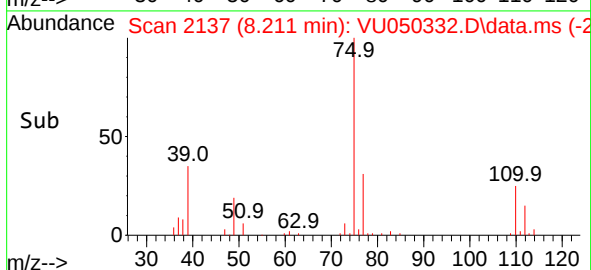
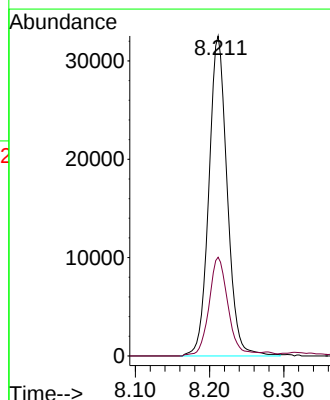
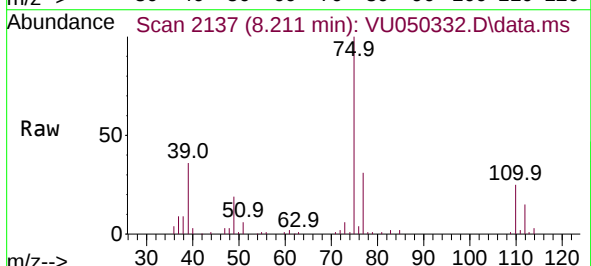
Acq: 15 Aug 2022 09:41

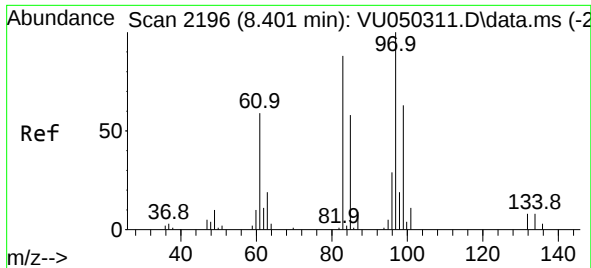
Tgt Ion: 75 Resp: 55703

Ion Ratio Lower Upper

75 100

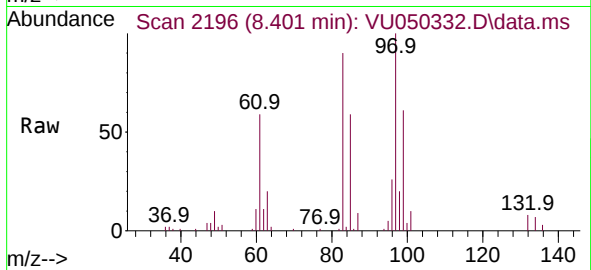
77 30.9 22.0 40.8



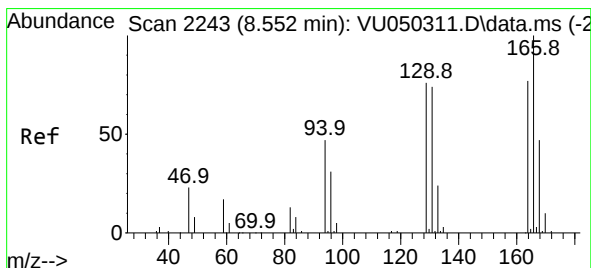
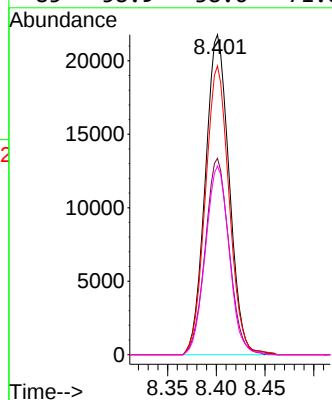
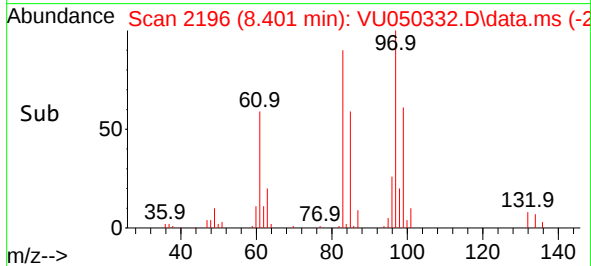


#45  
1,1,2-Trichloroethane  
Concen: 4.908 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

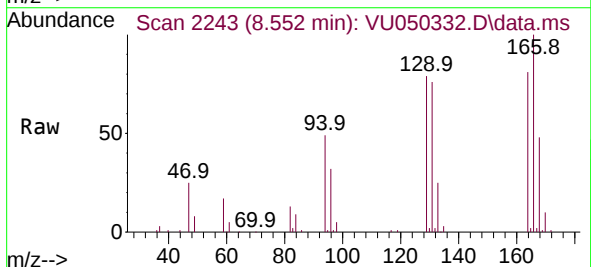
Instrument :  
MSVOA\_U  
ClientSampleId :



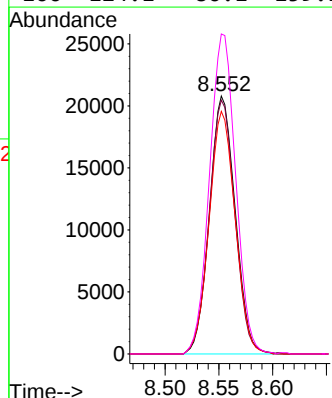
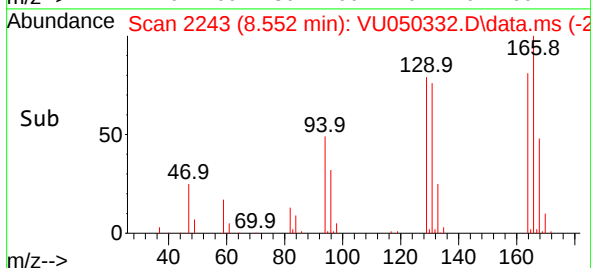
| Tgt Ion: | 97    | Resp: | 37166 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.4  | 42.2  | 78.4  |
| 83       | 90.2  | 59.6  | 110.6 |
| 85       | 58.9  | 38.6  | 71.8  |

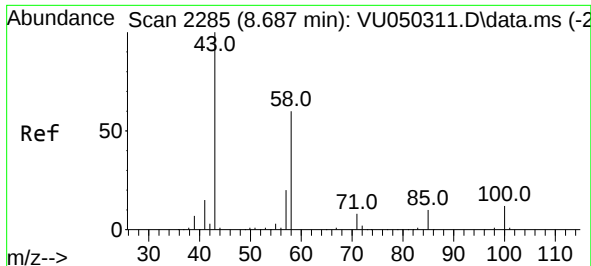


#47  
Tetrachloroethene  
Concen: 5.252 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41



| Tgt Ion: | 164   | Resp: | 34612 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.4  | 69.0  | 128.1 |
| 131      | 94.0  | 65.8  | 122.2 |
| 166      | 124.1 | 86.1  | 159.9 |

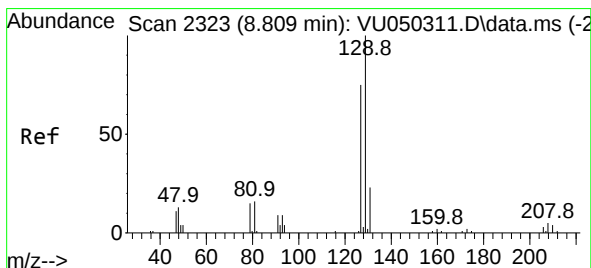
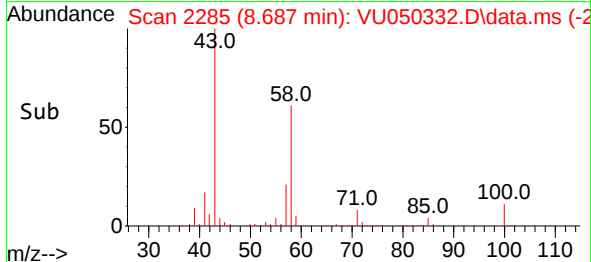
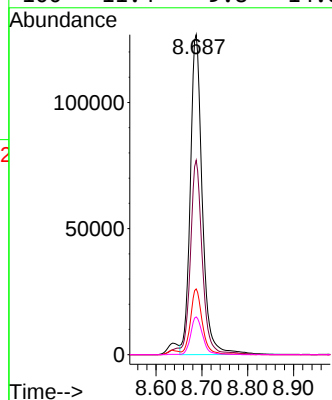
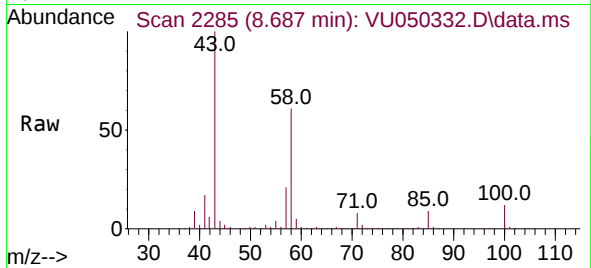




#48  
2-Hexanone  
Concen: 50.770 ug/L  
RT: 8.687 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

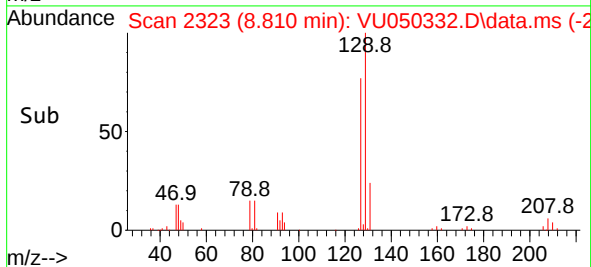
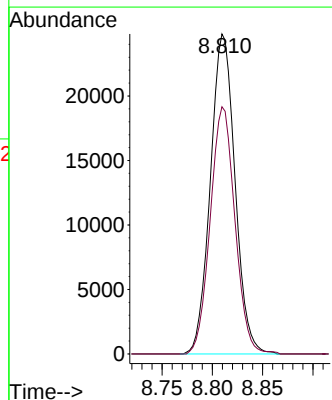
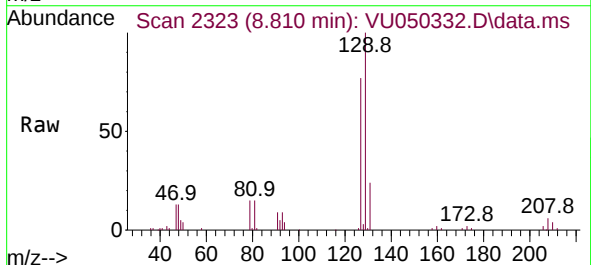
Instrument :  
MSVOA\_U  
ClientSampleId :

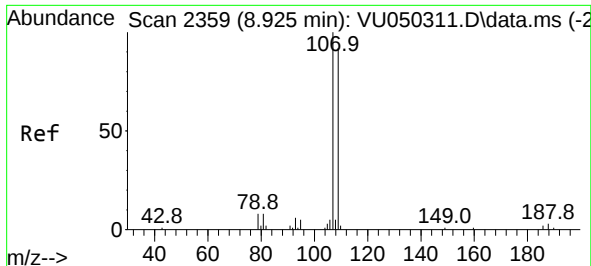
Tgt Ion: 43 Resp: 230404  
Ion Ratio Lower Upper  
43 100  
58 61.9 50.6 76.0  
57 19.7 16.0 24.0  
100 11.4 9.8 14.8



#49  
Dibromochloromethane  
Concen: 5.044 ug/L  
RT: 8.810 min Scan# 2323  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

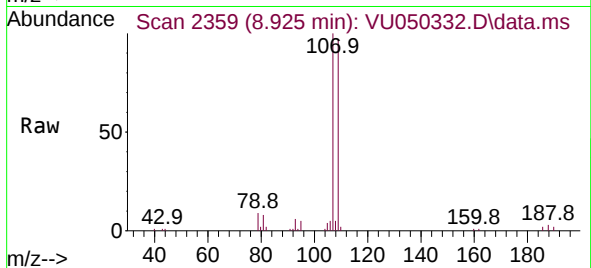
Tgt Ion: 129 Resp: 42277  
Ion Ratio Lower Upper  
129 100  
127 77.2 55.3 102.7



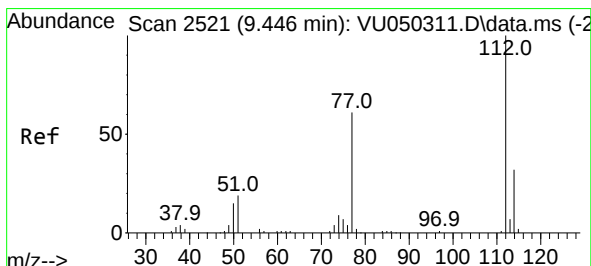
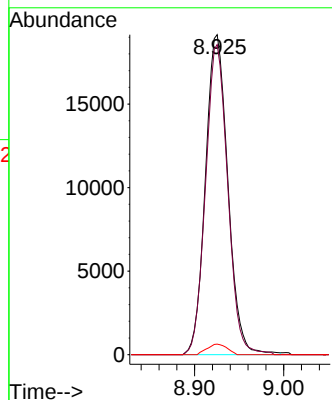
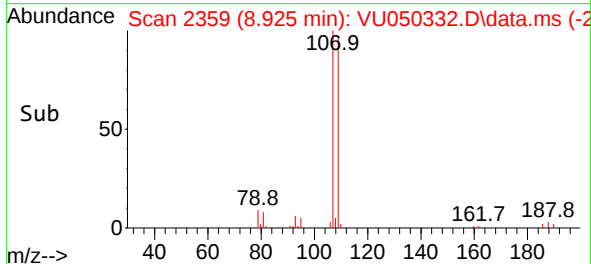


#50  
1,2-Dibromoethane  
Concen: 4.895 ug/L  
RT: 8.925 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :

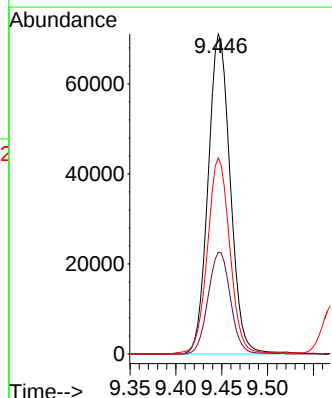
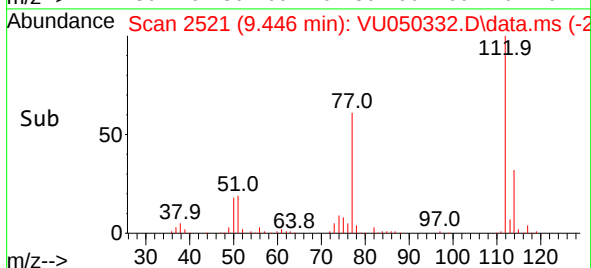
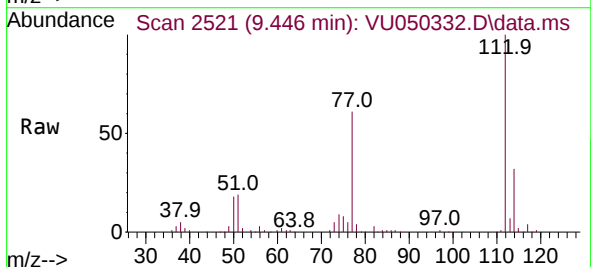


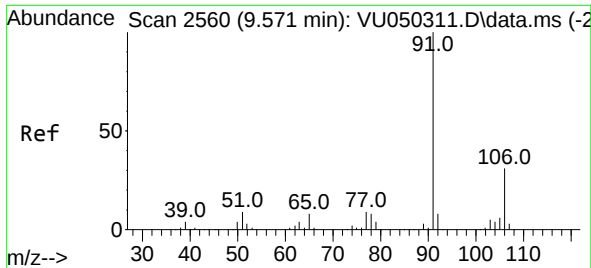
Tgt Ion:107 Resp: 33613  
Ion Ratio Lower Upper  
107 100  
109 96.9 66.6 123.6  
188 3.3 2.7 4.1



#51  
Chlorobenzene  
Concen: 4.972 ug/L  
RT: 9.446 min Scan# 2521  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion:112 Resp: 119328  
Ion Ratio Lower Upper  
112 100  
114 31.8 22.1 41.1  
77 61.3 46.3 69.5

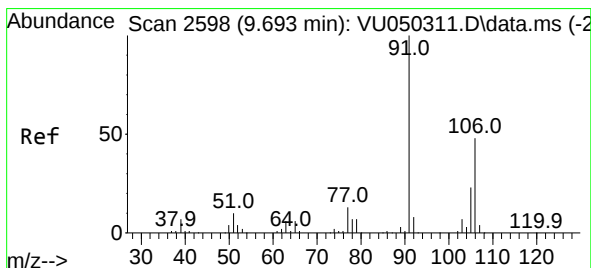
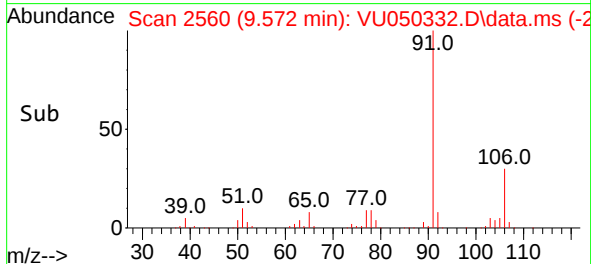
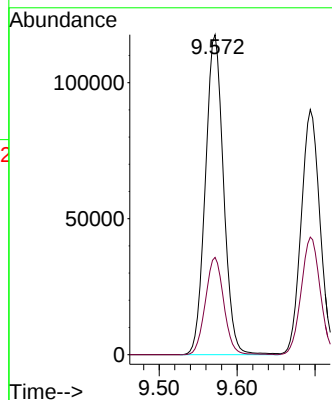
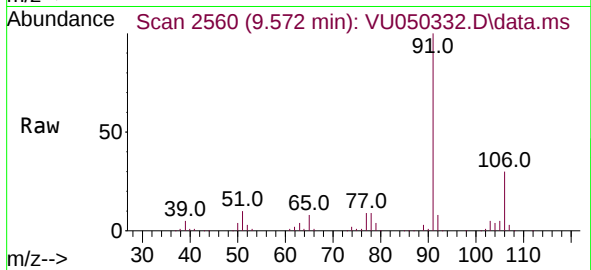




#52  
Ethylbenzene  
Concen: 5.121 ug/L  
RT: 9.572 min Scan# 2560  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

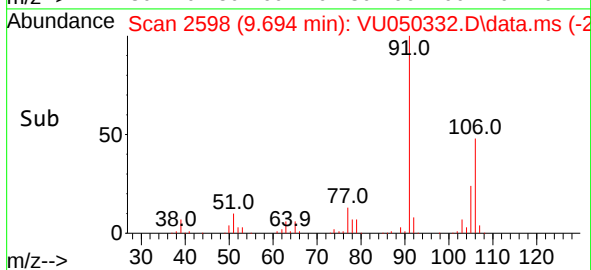
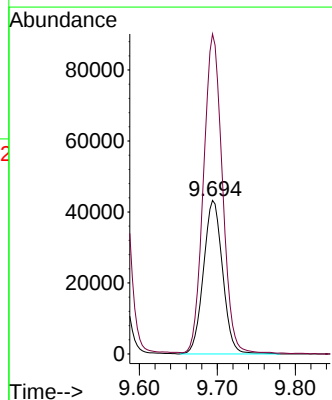
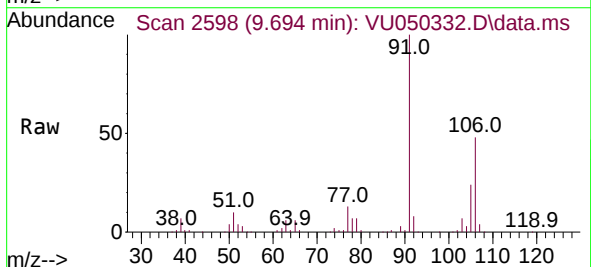
Instrument :  
MSVOA\_U  
ClientSampleId :

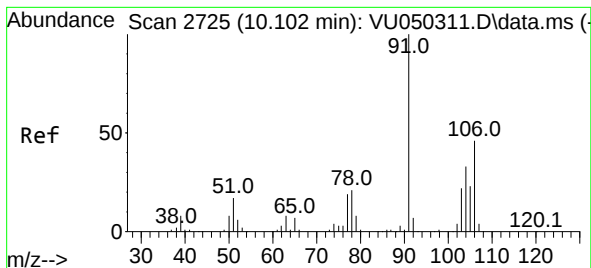
Tgt Ion: 91 Resp: 190599  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.3 39.5



#53  
m,p-Xylene  
Concen: 5.386 ug/L  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion: 106 Resp: 73826  
Ion Ratio Lower Upper  
106 100  
91 208.4 143.1 265.9





#54

o-Xylene

Concen: 5.254 ug/L

RT: 10.099 min Scan# 2725

Delta R.T. -0.003 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

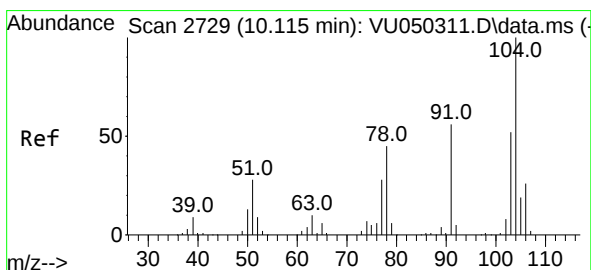
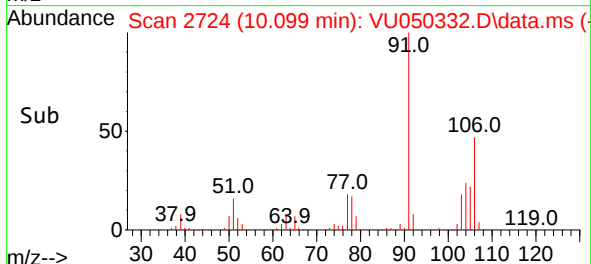
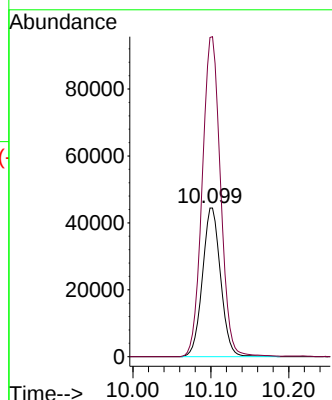
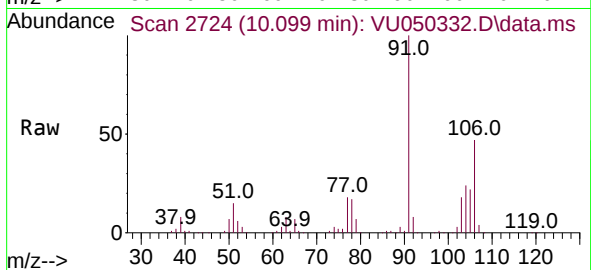
ClientSampleId :

Tgt Ion:106 Resp: 71883

Ion Ratio Lower Upper

106 100

91 214.7 149.4 277.4



#55

Styrene

Concen: 5.256 ug/L

RT: 10.115 min Scan# 2729

Delta R.T. 0.000 min

Lab File: VU050332.D

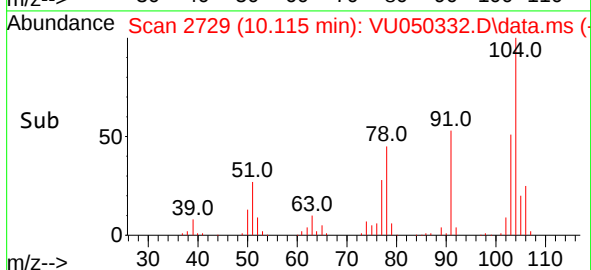
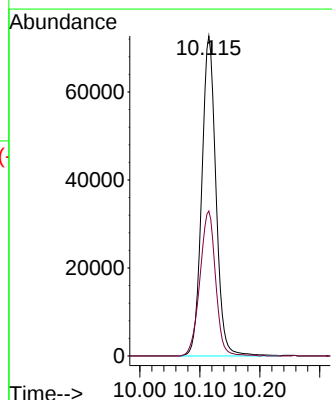
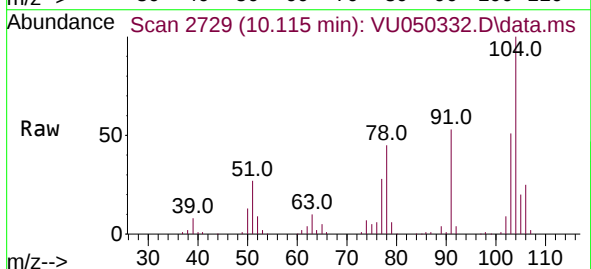
Acq: 15 Aug 2022 09:41

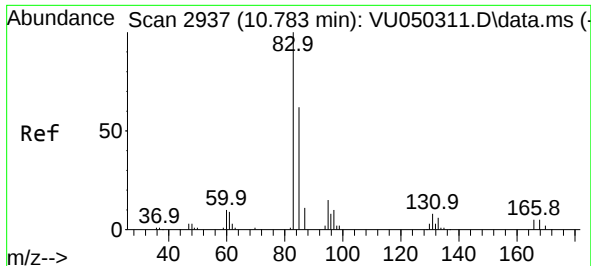
Tgt Ion:104 Resp: 120144

Ion Ratio Lower Upper

104 100

78 45.3 31.9 59.3





#57

1,1,2,2-Tetrachloroethane

Concen: 4.931 ug/L

RT: 10.784 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

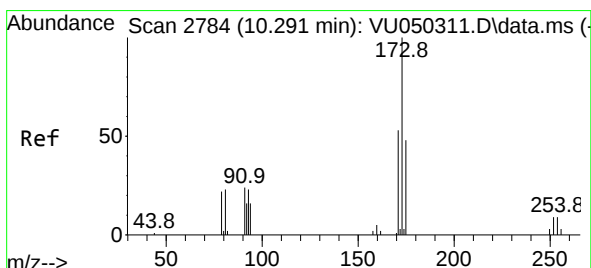
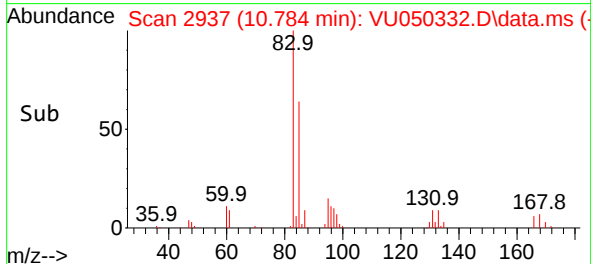
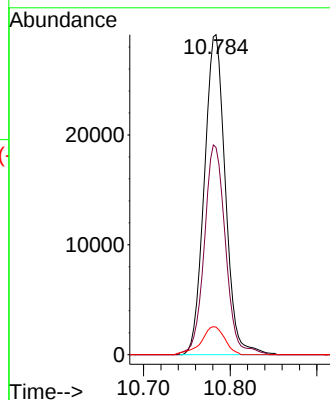
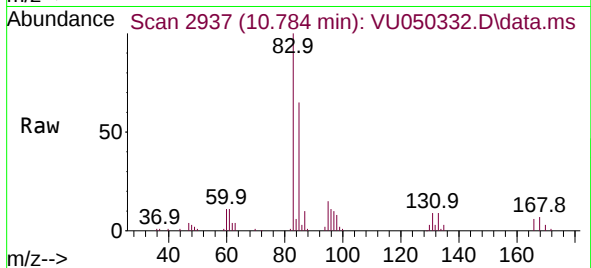
Tgt Ion: 83 Resp: 49063

Ion Ratio Lower Upper

83 100

85 64.7 45.2 84.0

131 8.6 6.6 9.8



#59

Bromoform

Concen: 4.595 ug/L

RT: 10.292 min Scan# 2784

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

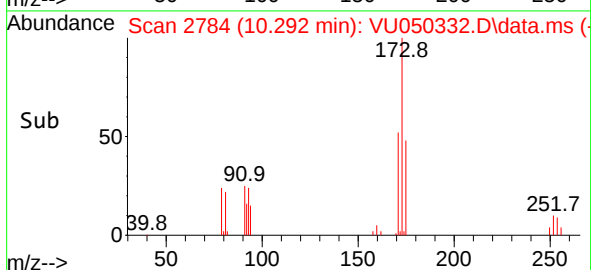
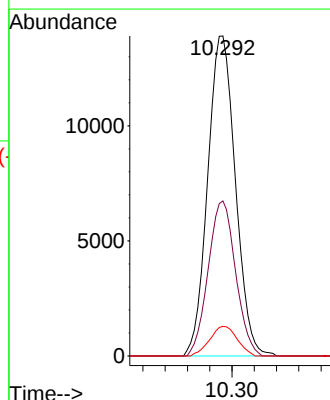
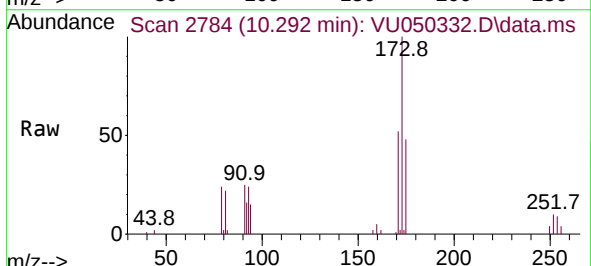
Tgt Ion:173 Resp: 24035

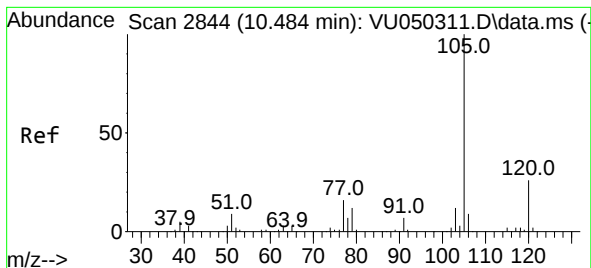
Ion Ratio Lower Upper

173 100

175 47.8 37.0 55.6

254 9.2 7.4 11.0





#60

Isopropylbenzene

Concen: 5.248 ug/L

RT: 10.485 min Scan# 2844

Delta R.T. 0.000 min

Lab File: VU050332.D

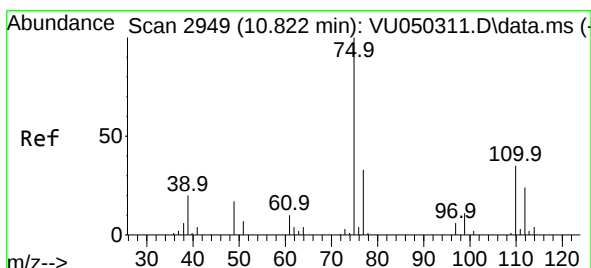
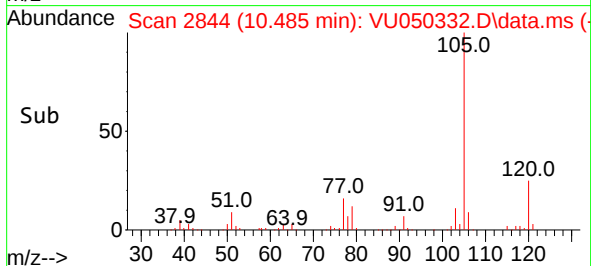
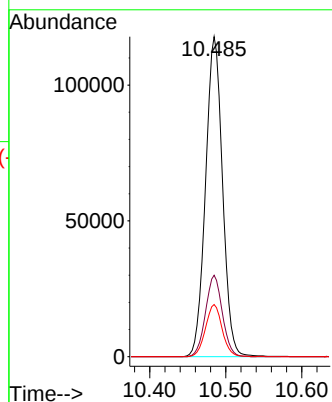
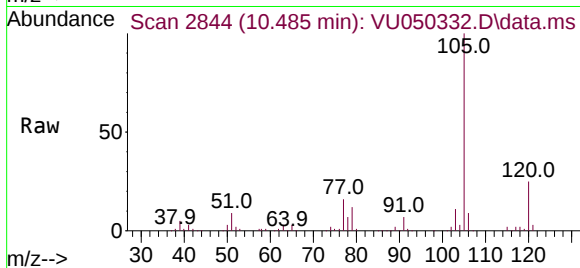
Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 182804 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 25.2  | 20.8  | 31.2   |
| 77        | 16.0  | 12.6  | 19.0   |



#61

1,2,3-Trichloropropane

Concen: 4.751 ug/L

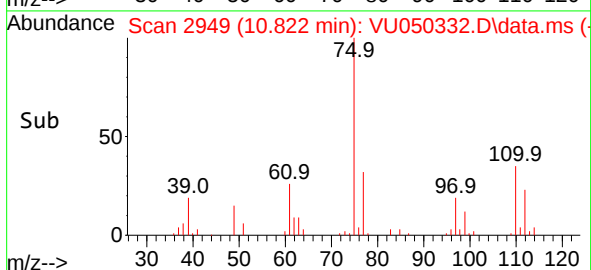
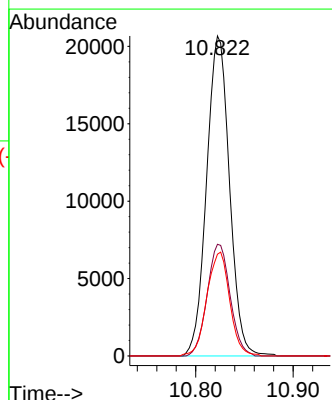
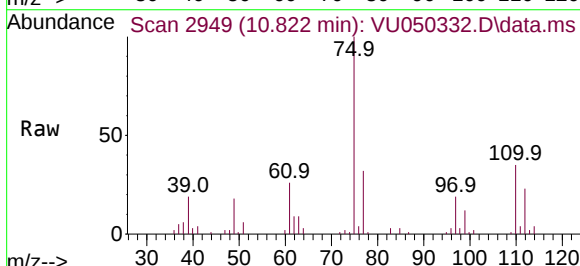
RT: 10.822 min Scan# 2949

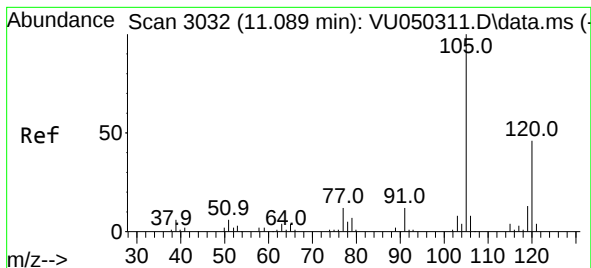
Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 33759 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 34.9  | 28.5  | 42.7  |
| 77        | 32.3  | 25.8  | 38.6  |





#62

1,3,5-Trimethylbenzene

Concen: 4.950 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

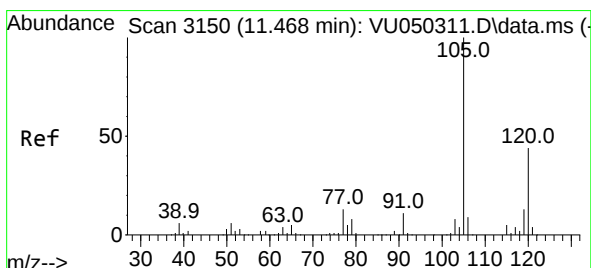
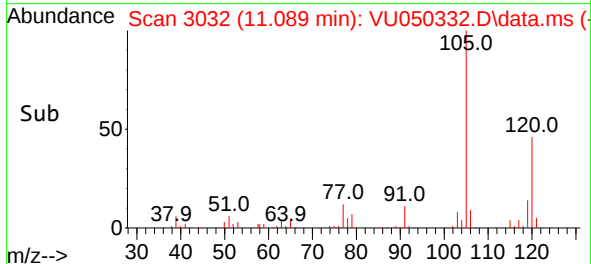
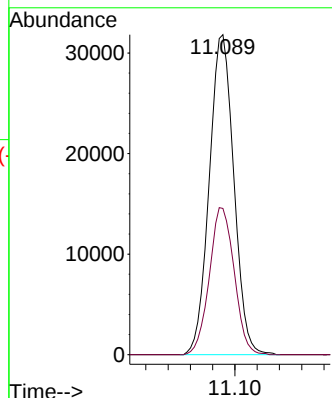
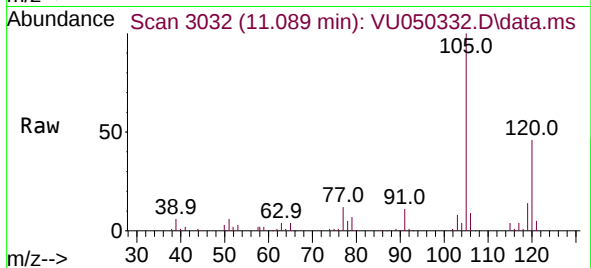
ClientSampleId :

Tgt Ion:105 Resp: 48719

Ion Ratio Lower Upper

105 100

120 46.4 38.9 58.3



#63

1,2,4-Trimethylbenzene

Concen: 5.119 ug/L

RT: 11.469 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU050332.D

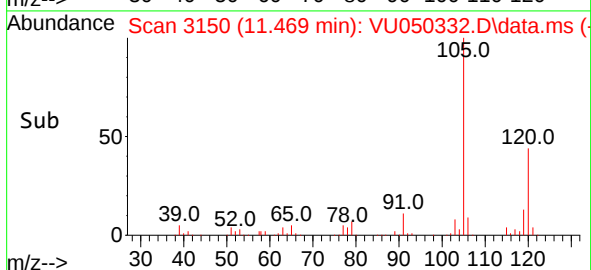
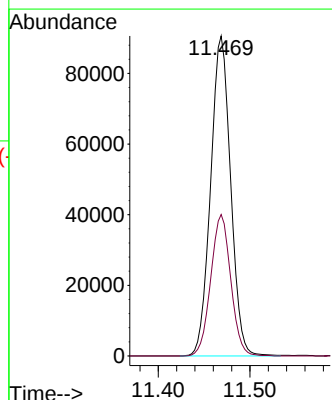
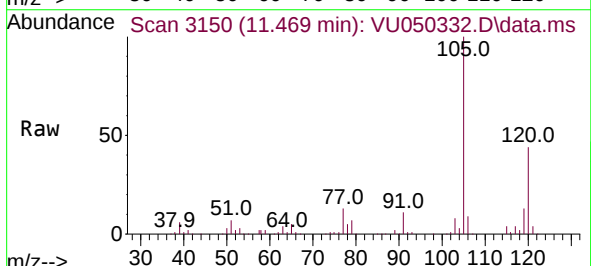
Acq: 15 Aug 2022 09:41

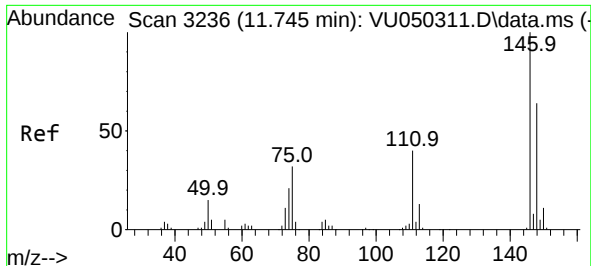
Tgt Ion:105 Resp: 137262

Ion Ratio Lower Upper

105 100

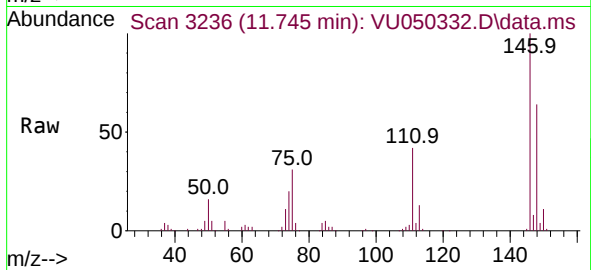
120 44.2 35.9 53.9



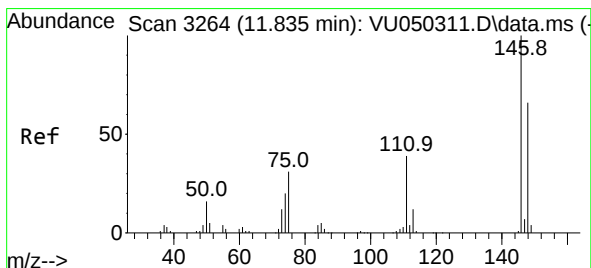
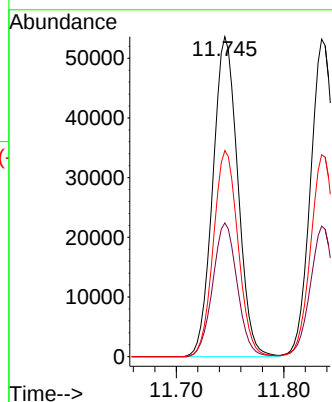
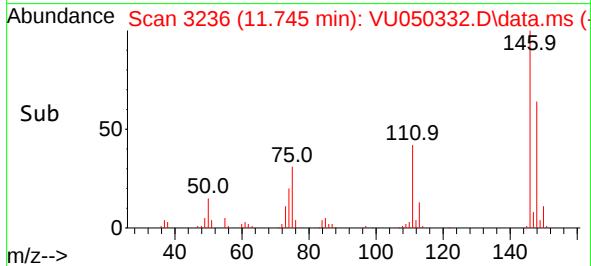


#64  
1,3-Dichlorobenzene  
Concen: 4.934 ug/L  
RT: 11.745 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

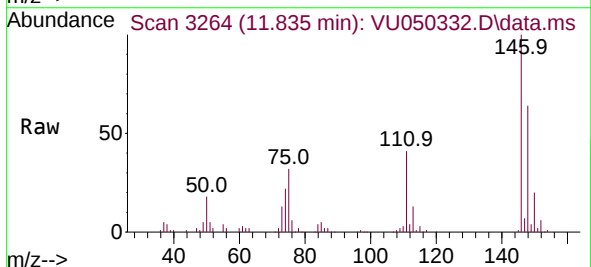
Instrument :  
MSVOA\_U  
ClientSampleId :



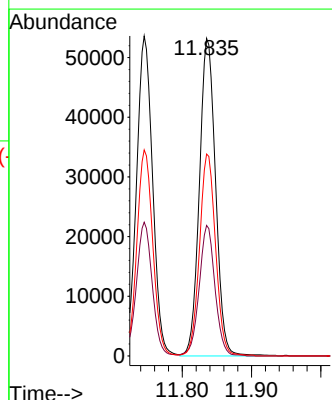
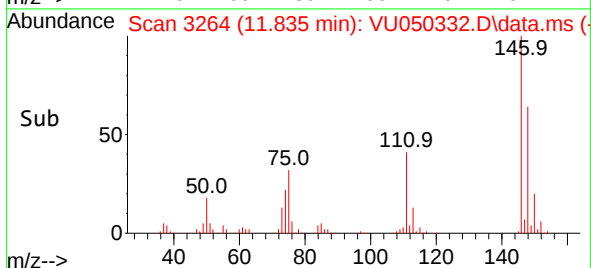
Tgt Ion:146 Resp: 86633  
Ion Ratio Lower Upper  
146 100  
111 41.8 29.9 55.5  
148 64.4 45.8 85.2

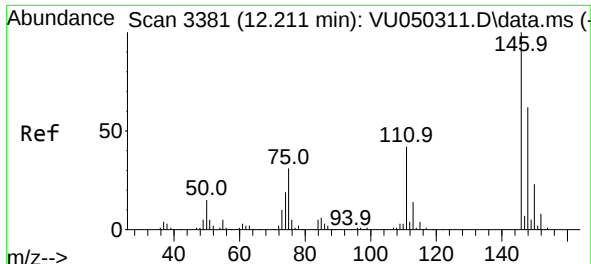


#65  
1,4-Dichlorobenzene  
Concen: 5.055 ug/L  
RT: 11.835 min Scan# 3264  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41



Tgt Ion:146 Resp: 86350  
Ion Ratio Lower Upper  
146 100  
111 41.1 28.1 52.1  
148 63.6 44.6 82.8





#67

1,2-Dichlorobenzene

Concen: 4.972 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

Instrument :

MSVOA\_U

ClientSampleId :

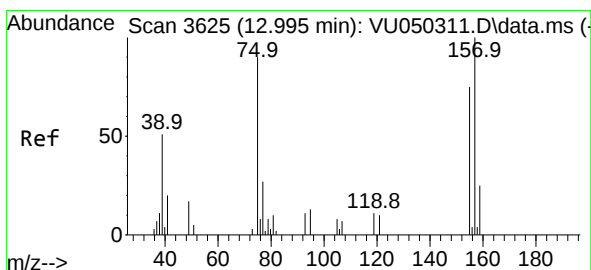
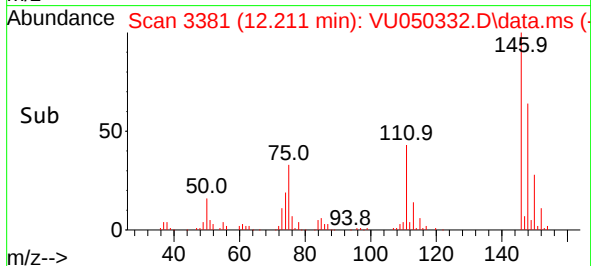
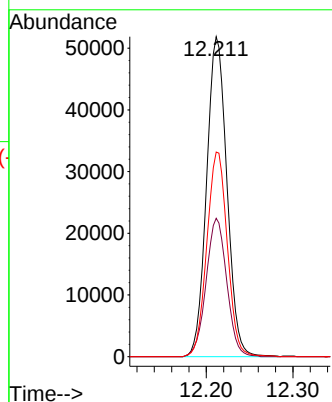
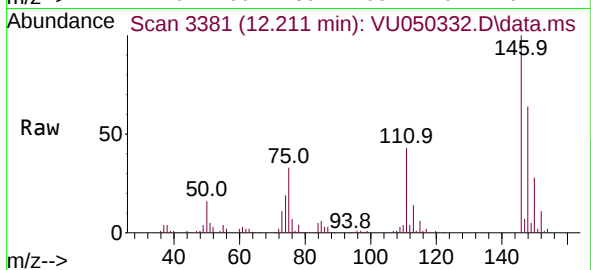
Tgt Ion:146 Resp: 84535

Ion Ratio Lower Upper

146 100

111 43.3 32.9 49.3

148 64.0 50.4 75.6



#68

1,2-Dibromo-3-chloropropane

Concen: 4.867 ug/L

RT: 12.996 min Scan# 3625

Delta R.T. 0.000 min

Lab File: VU050332.D

Acq: 15 Aug 2022 09:41

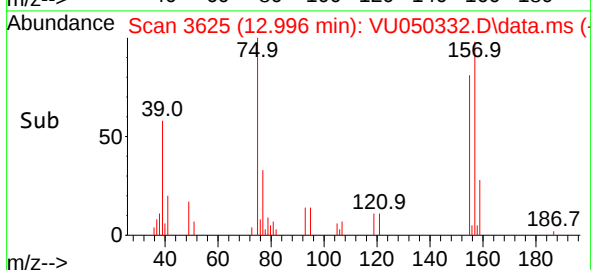
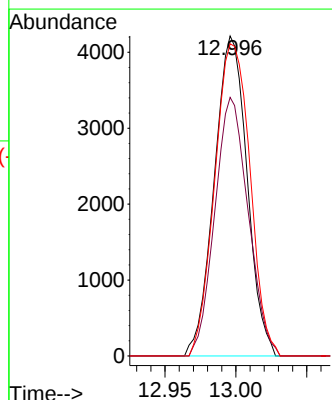
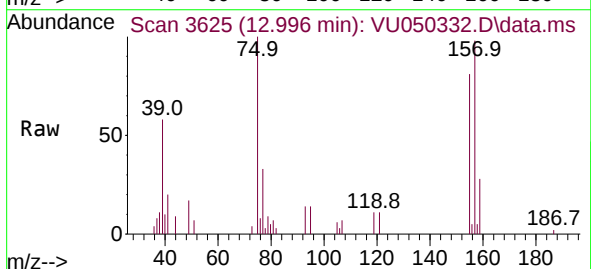
Tgt Ion: 75 Resp: 6781

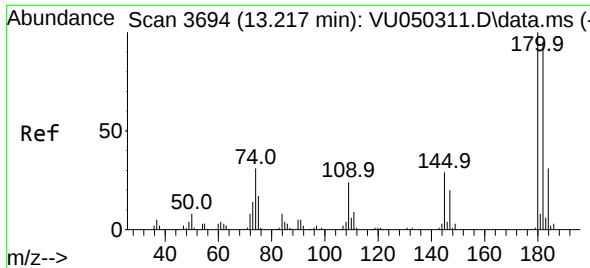
Ion Ratio Lower Upper

75 100

155 80.8 63.5 95.3

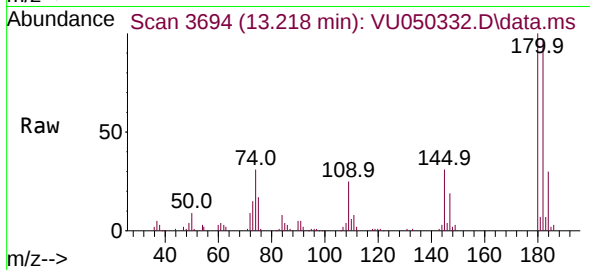
157 97.5 85.0 127.6



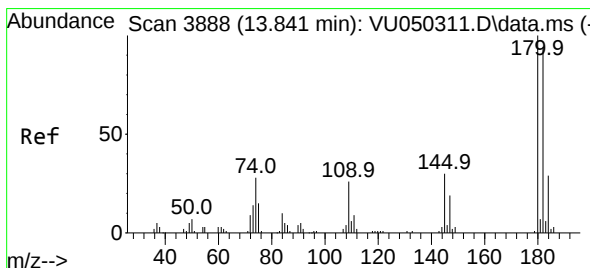
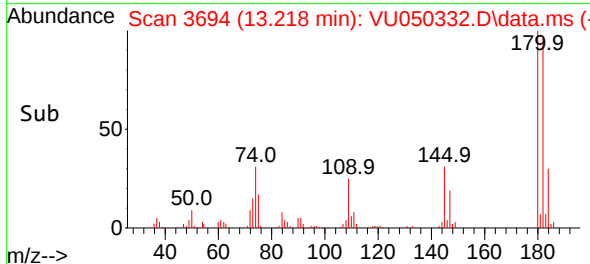
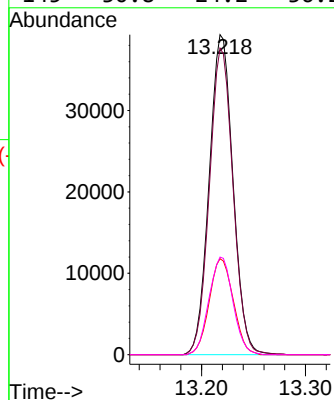


#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.989 ug/L  
 RT: 13.218 min Scan# 3694  
 Delta R.T. 0.000 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :

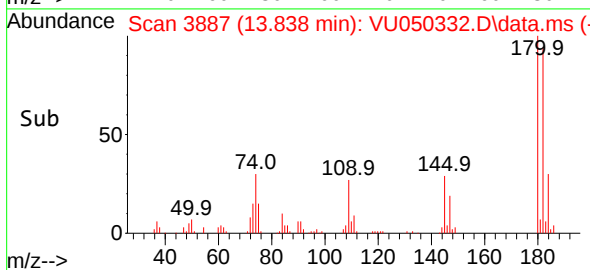
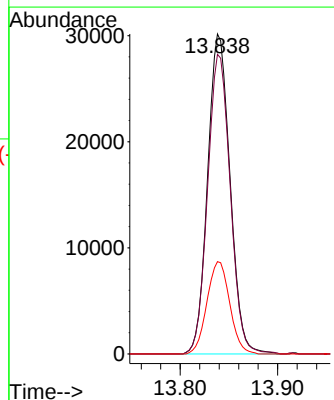
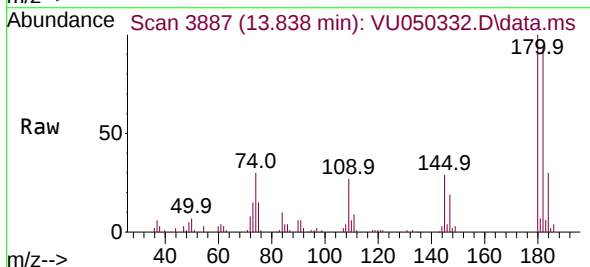


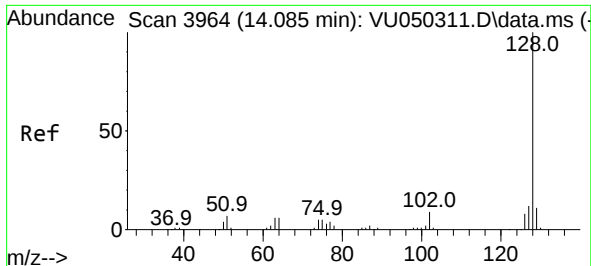
Tgt Ion:180 Resp: 62400  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 77.3 115.9  
 184 30.4 24.1 36.1  
 145 30.8 24.2 36.2



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.082 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. -0.003 min  
 Lab File: VU050332.D  
 Acq: 15 Aug 2022 09:41

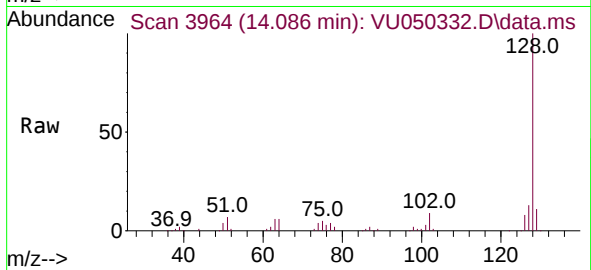
Tgt Ion:180 Resp: 48156  
 Ion Ratio Lower Upper  
 180 100  
 182 94.7 76.9 115.3  
 145 29.3 24.2 36.4



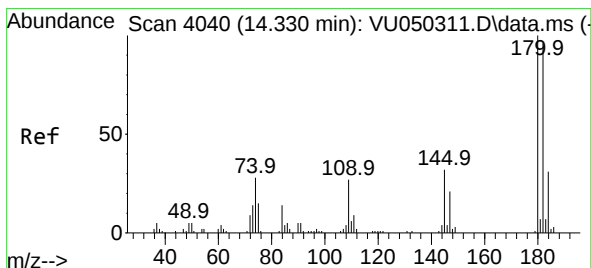
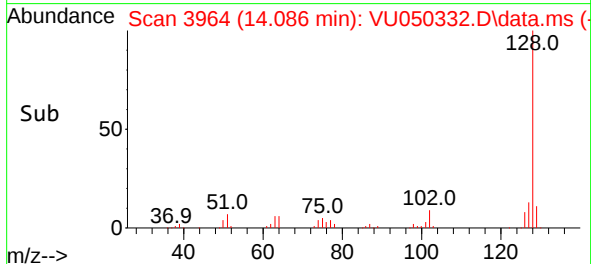
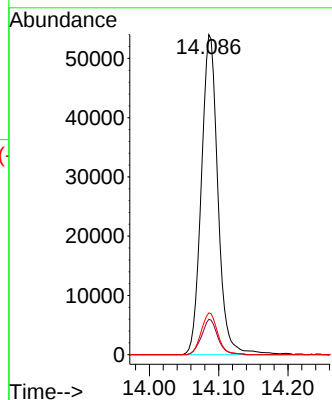


#71  
Naphthalene  
Concen: 4.607 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 89529  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.6 12.8  
127 13.0 10.6 16.0



#72  
1,2,3-Trichlorobenzene  
Concen: 5.060 ug/L  
RT: 14.330 min Scan# 4040  
Delta R.T. 0.000 min  
Lab File: VU050332.D  
Acq: 15 Aug 2022 09:41

Tgt Ion:180 Resp: 48610  
Ion Ratio Lower Upper  
180 100  
182 96.6 77.5 116.3  
145 32.5 25.8 38.6

