

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092123\  
 Data File : VU055449.D  
 Acq On : 21 Sep 2023 16:36  
 Operator : MD/SY  
 Sample : 04562-04MSD  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

Quant Time: Sep 22 02:35:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR091923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 22 02:32:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 256245   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 261928   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 147402   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 98424    | 3.800    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 76.000%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 97239    | 4.261    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 85.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 46076    | 4.322    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 86.400%  |
| 20) 2-Butanone-d5             | 4.624  | 46    | 257953   | 55.143   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 110.280% |
| 24) Chloroform-d              | 5.059  | 84    | 232074   | 4.954    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 113881   | 5.054    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.000% |
| 32) Benzene-d6                | 5.724  | 84    | 443269   | 4.838    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 134135   | 4.900    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 98.000%  |
| 41) Toluene-d8                | 7.894  | 98    | 394632   | 4.726    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.600%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 49866    | 5.191    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 103.800% |
| 46) 2-Hexanone-d5             | 8.631  | 63    | 150814   | 51.614   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 103.220% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 105193   | 5.128    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 102.600% |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 142030   | 4.774    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 118796   | 4.762    | ug/L   | 99       |
| 3) Chloromethane              | 1.515  | 50    | 110896   | 5.053    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.602  | 62    | 117441   | 4.960    | ug/L   | 99       |
| 6) Bromomethane               | 1.856  | 94    | 80521    | 5.354    | ug/L   | 98       |
| 8) Chloroethane               | 1.930  | 64    | 79164    | 5.124    | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 165337   | 5.036    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 105233   | 5.267    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 93311    | 5.208    | ug/L   | 90       |
| 13) Acetone                   | 2.637  | 43    | 143102   | 53.666   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.789  | 76    | 364783   | 6.773    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.949  | 43    | 30698    | 5.049    | ug/L   | 95       |
| 16) Methylene chloride        | 3.039  | 84    | 103121   | 4.804    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 3.358  | 73    | 217283   | 5.591    | ug/L   | 100      |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 96267    | 5.331    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.866  | 63    | 177922   | 5.328    | ug/L   | 97       |
| 21) 2-Butanone                | 4.705  | 43    | 202872   | 51.873   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 105770   | 5.052    | ug/L   | 97       |
| 23) Bromochloromethane        | 4.972  | 128   | 46465    | 5.251    | ug/L   | 93       |
| 25) Chloroform                | 5.084  | 83    | 193269   | 5.466    | ug/L   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092123\  
 Data File : VU055449.D  
 Acq On : 21 Sep 2023 16:36  
 Operator : MD/SY  
 Sample : 04562-04MSD  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

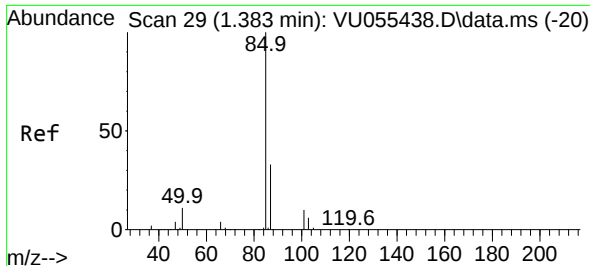
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

Quant Time: Sep 22 02:35:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR091923WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 22 02:32:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.792  | 62   | 118035   | 5.443  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.313  | 97   | 166178   | 5.565  | ug/L  | 99       |
| 30) Cyclohexane               | 5.383  | 56   | 141423   | 5.174  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.522  | 117  | 142604   | 5.572  | ug/L  | 99       |
| 33) Benzene                   | 5.769  | 78   | 410307   | 5.443  | ug/L  | 100      |
| 34) Trichloroethene           | 6.538  | 95   | 321749   | 15.088 | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.759  | 83   | 157985   | 5.143  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 101549   | 5.151  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.103  | 83   | 125861   | 5.447  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 146034   | 5.550  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.788  | 43   | 479824   | 53.650 | ug/L  | 99       |
| 42) Toluene                   | 7.965  | 91   | 431953   | 5.372  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 112503   | 5.344  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 72090    | 5.215  | ug/L  | 98       |
| 47) Tetrachloroethene         | 8.550  | 164  | 84729    | 5.539  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.682  | 43   | 381562   | 55.048 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.808  | 129  | 79033    | 5.454  | ug/L  | 93       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 68651    | 5.351  | ug/L  | 99       |
| 51) Chlorobenzene             | 9.444  | 112  | 267214   | 5.188  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.566  | 91   | 455976   | 5.289  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.692  | 106  | 172707   | 5.346  | ug/L  | 100      |
| 54) o-Xylene                  | 10.097 | 106  | 169583   | 5.399  | ug/L  | 97       |
| 55) Styrene                   | 10.113 | 104  | 282726   | 5.567  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.779 | 83   | 82078    | 5.259  | ug/L  | 98       |
| 59) Bromoform                 | 10.287 | 173  | 42484    | 5.377  | ug/L  | 99       |
| 60) Isopropylbenzene          | 10.483 | 105  | 446348   | 5.254  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 59923    | 5.208  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 353443   | 5.202  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 346857   | 5.216  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 219145   | 5.388  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 209278   | 5.148  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 196883   | 5.280  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 11553    | 5.792  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 145345   | 5.189  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 110343   | 5.167  | ug/L  | 99       |
| 71) Naphthalene               | 14.084 | 128  | 165410   | 5.351  | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 97917    | 5.270  | ug/L  | 99       |

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

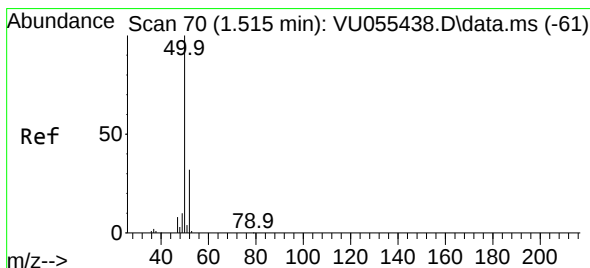
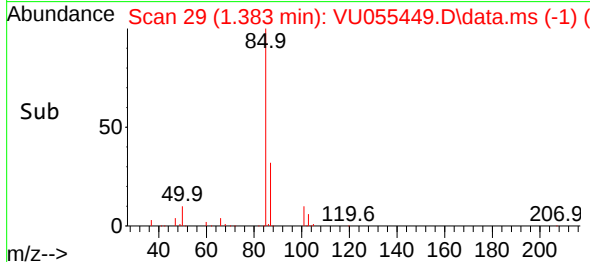
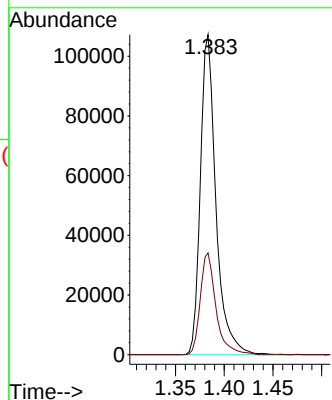
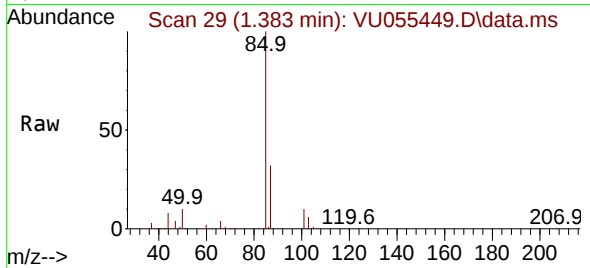




#2  
Dichlorodifluoromethane  
Concen: 4.762 ug/L  
RT: 1.383 min Scan# 29  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

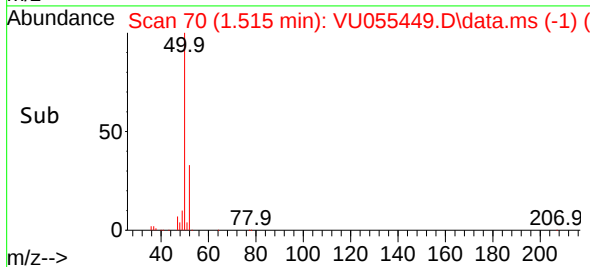
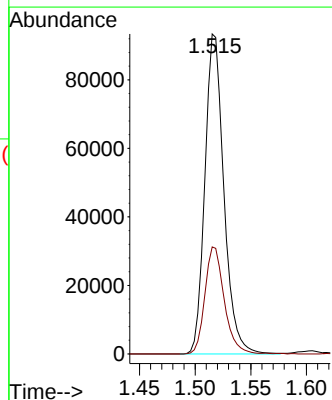
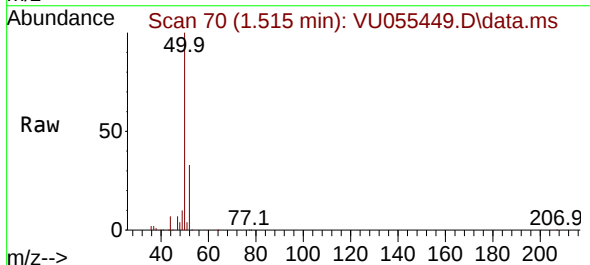
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

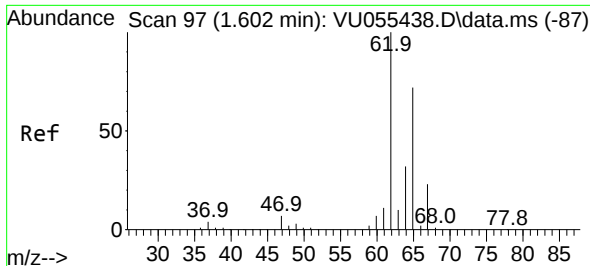
Tgt Ion: 85 Resp: 118796  
Ion Ratio Lower Upper  
85 100  
87 32.0 26.0 39.0



#3  
Chloromethane  
Concen: 5.053 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 50 Resp: 110896  
Ion Ratio Lower Upper  
50 100  
52 33.5 22.9 42.5

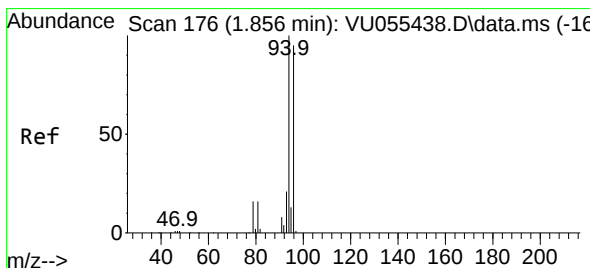
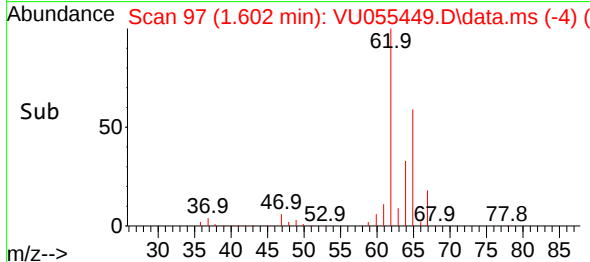
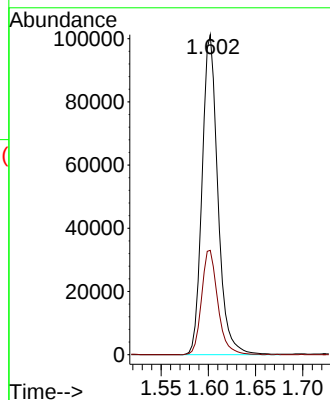
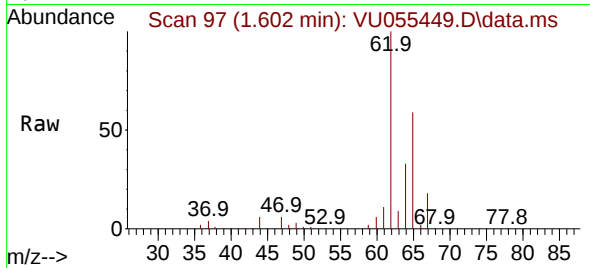




#5  
 Vinyl chloride  
 Concen: 4.960 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

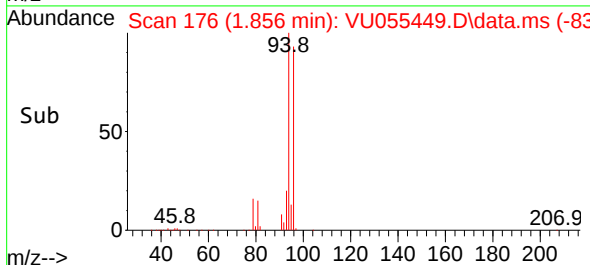
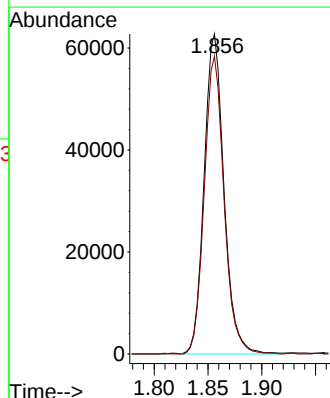
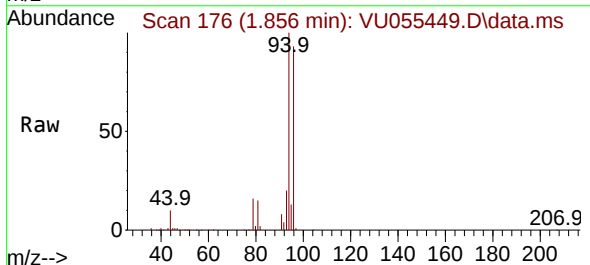
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

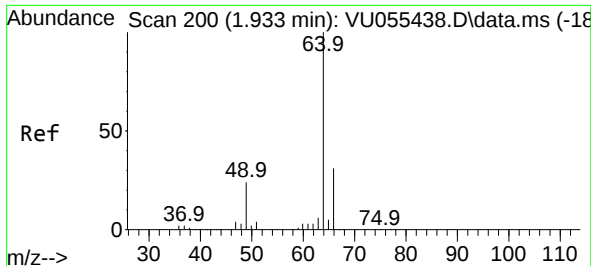
Tgt Ion: 62 Resp: 117441  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 22.3 41.5



#6  
 Bromomethane  
 Concen: 5.354 ug/L  
 RT: 1.856 min Scan# 176  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

Tgt Ion: 94 Resp: 80521  
 Ion Ratio Lower Upper  
 94 100  
 96 93.1 66.4 123.2

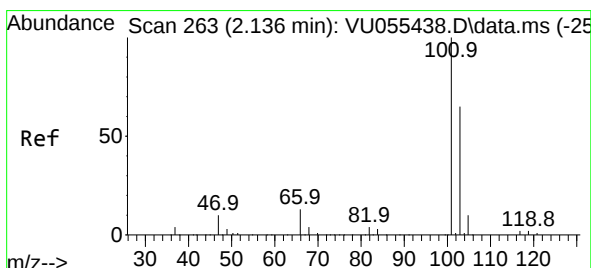
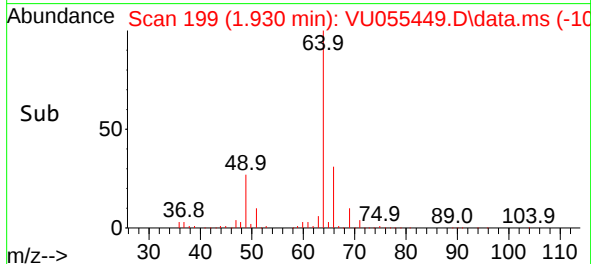
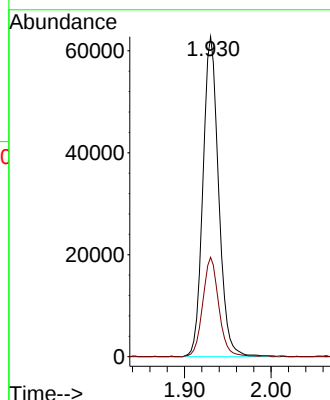
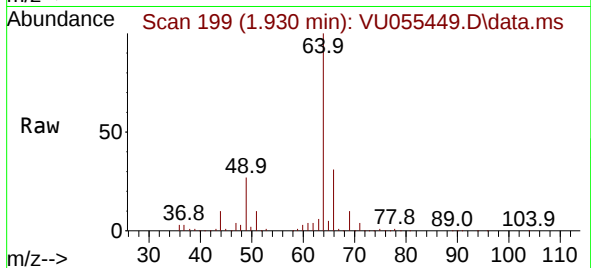




#8  
Chloroethane  
Concen: 5.124 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

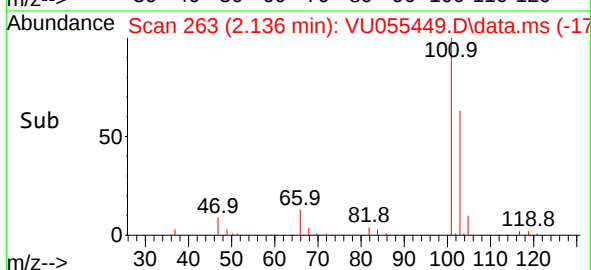
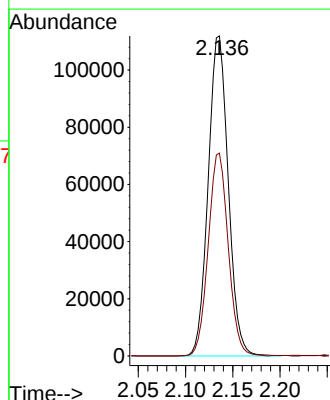
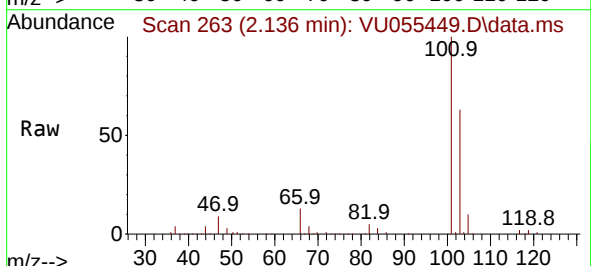
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

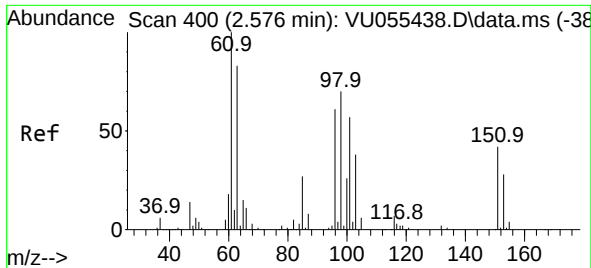
Tgt Ion: 64 Resp: 79164  
Ion Ratio Lower Upper  
64 100  
66 31.0 23.7 44.1



#9  
Trichlorofluoromethane  
Concen: 5.036 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion:101 Resp: 165337  
Ion Ratio Lower Upper  
101 100  
103 63.2 52.0 78.0

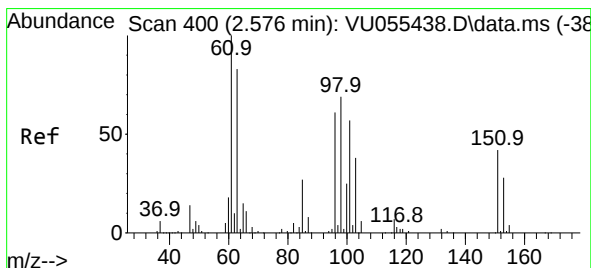
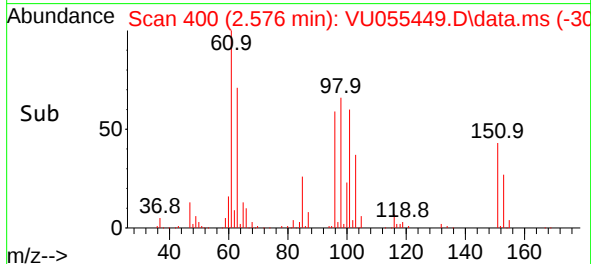
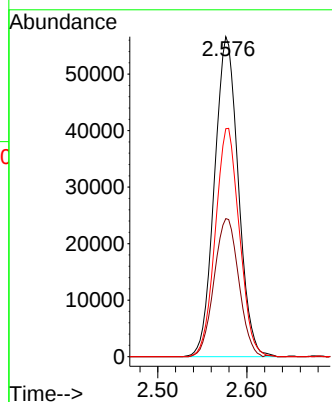
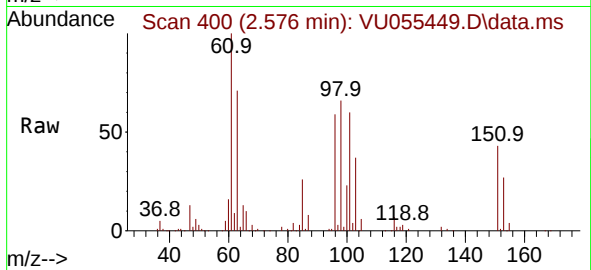




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.267 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

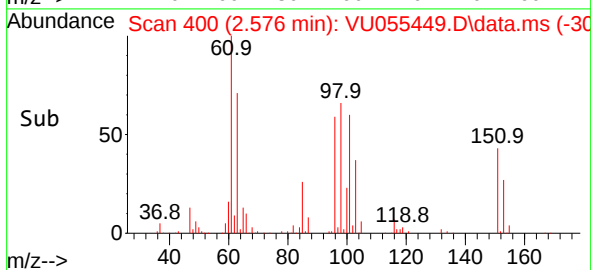
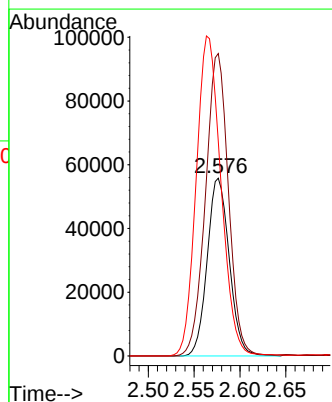
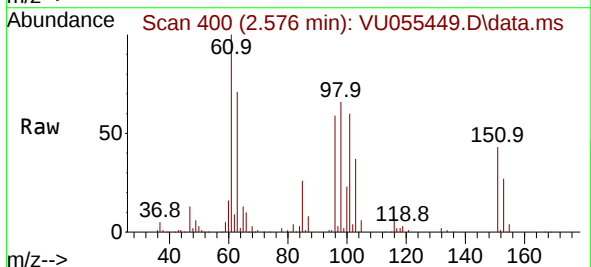
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

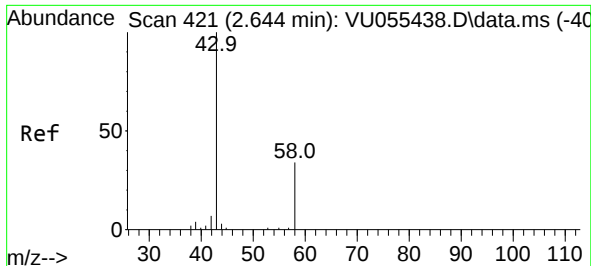
Tgt Ion: 101 Resp: 105233  
 Ion Ratio Lower Upper  
 101 100  
 85 44.6 35.8 53.6  
 151 72.1 58.2 87.4



#12  
 1,1-Dichloroethene  
 Concen: 5.208 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

Tgt Ion: 96 Resp: 93311  
 Ion Ratio Lower Upper  
 96 100  
 61 170.1 114.5 212.7  
 63 120.8 98.3 182.5





#13

Acetone

Concen: 53.666 ug/L

RT: 2.637 min Scan# 419

Delta R.T. -0.006 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

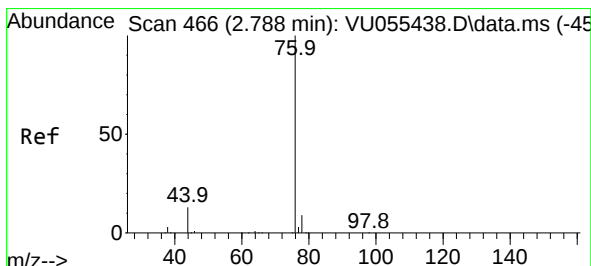
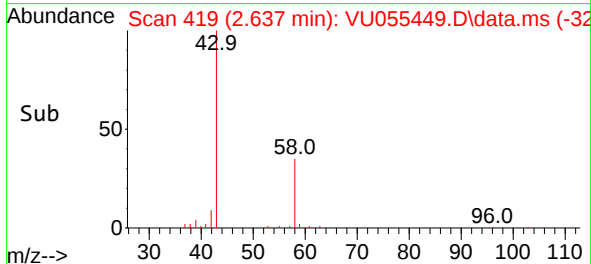
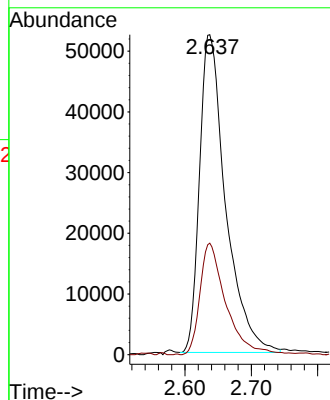
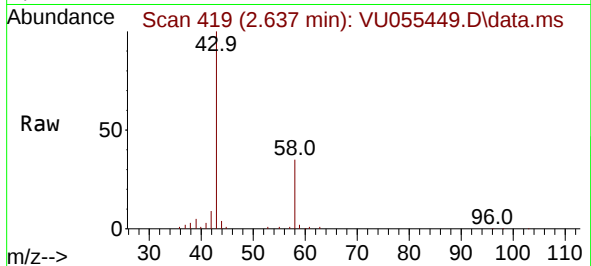
DCJL2MSD

Tgt Ion: 43 Resp: 143102

Ion Ratio Lower Upper

43 100

58 34.7 0.0 72.2



#14

Carbon disulfide

Concen: 6.773 ug/L

RT: 2.789 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU055449.D

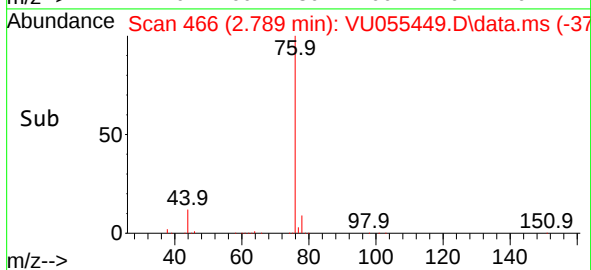
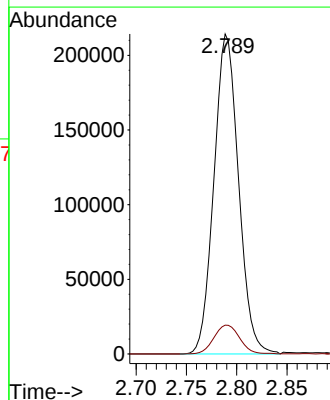
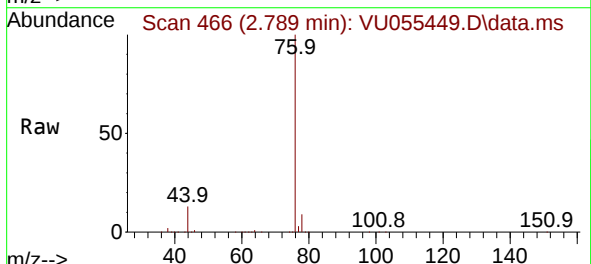
Acq: 21 Sep 2023 16:36

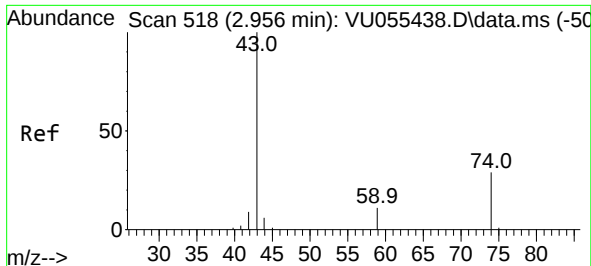
Tgt Ion: 76 Resp: 364783

Ion Ratio Lower Upper

76 100

78 9.0 7.7 11.5

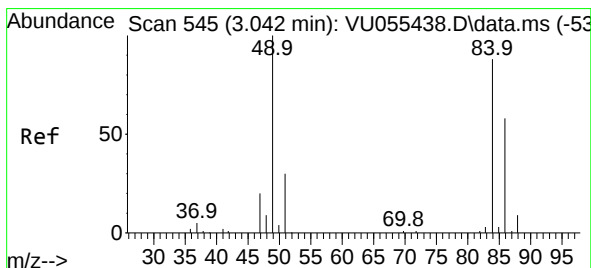
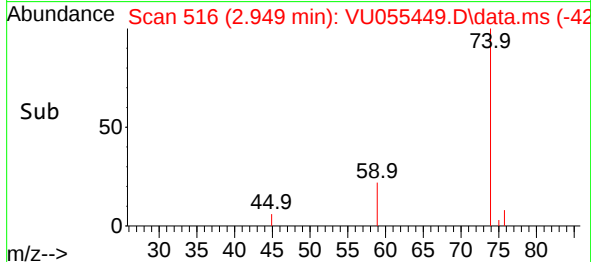
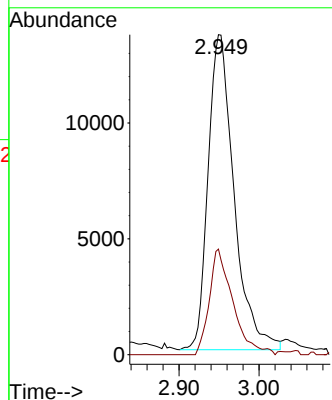
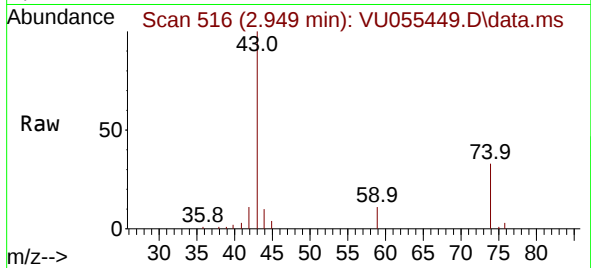




#15  
Methyl Acetate  
Concen: 5.049 ug/L  
RT: 2.949 min Scan# 518  
Delta R.T. -0.006 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

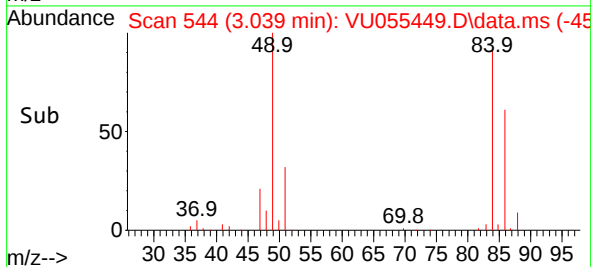
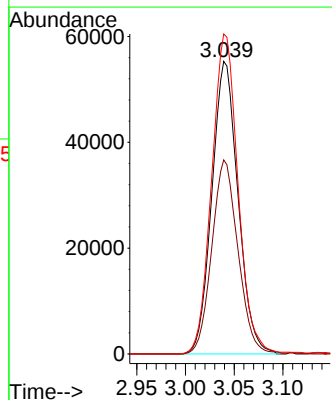
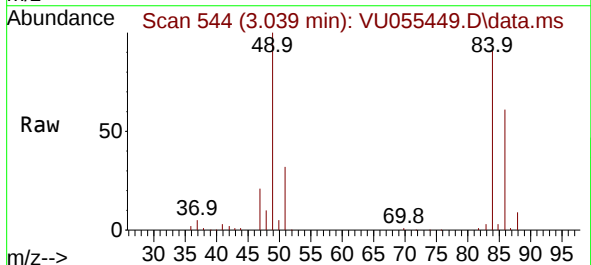
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

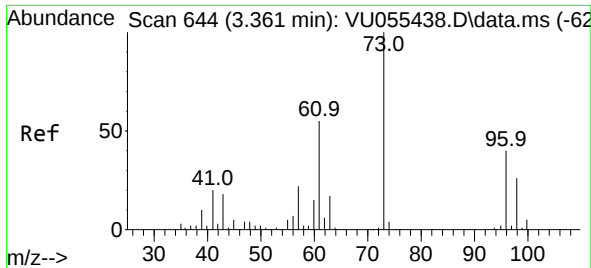
Tgt Ion: 43 Resp: 30698  
Ion Ratio Lower Upper  
43 100  
74 30.3 22.3 33.5



#16  
Methylene chloride  
Concen: 4.804 ug/L  
RT: 3.039 min Scan# 544  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 84 Resp: 103121  
Ion Ratio Lower Upper  
84 100  
86 66.3 44.9 83.3  
49 109.4 78.8 146.3

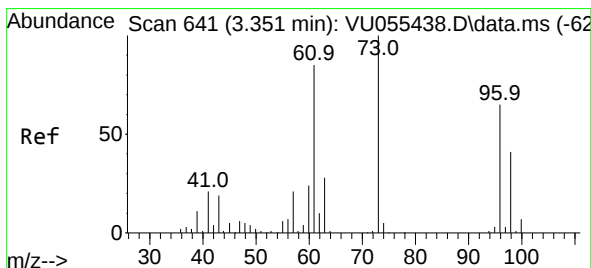
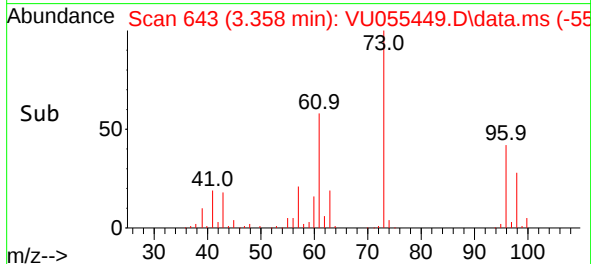
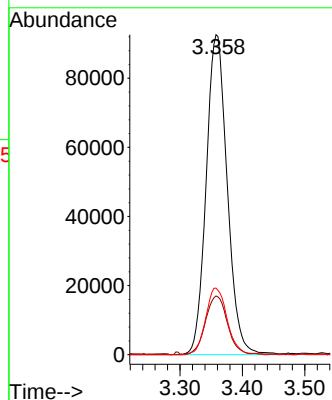
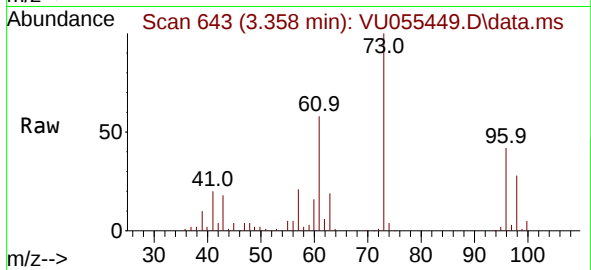




#17  
Methyl tert-butyl Ether  
Concen: 5.591 ug/L  
RT: 3.358 min Scan# 644  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

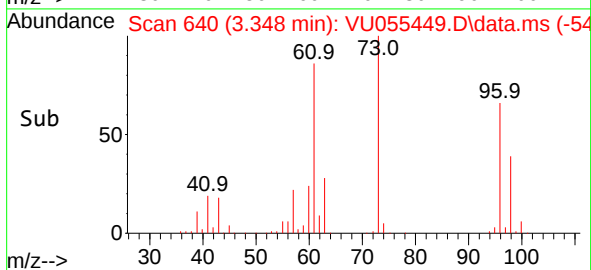
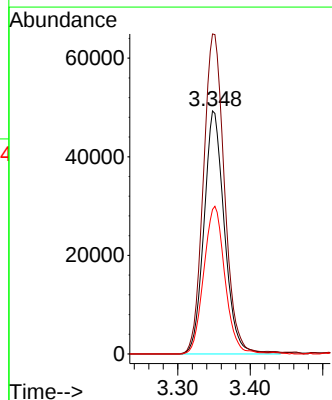
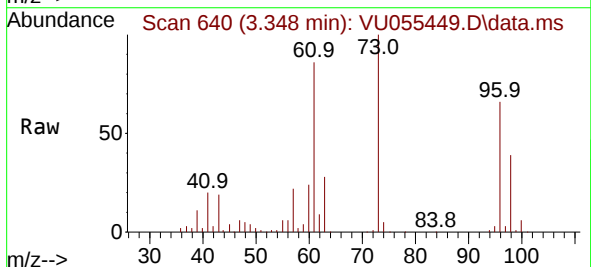
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

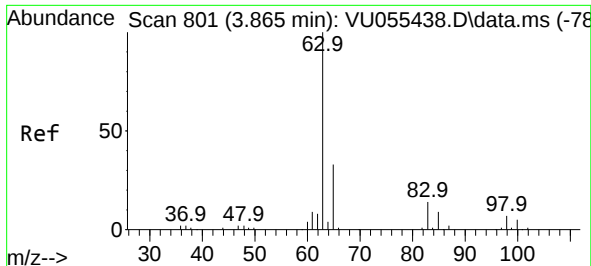
Tgt Ion: 73 Resp: 217283  
Ion Ratio Lower Upper  
73 100  
43 18.6 14.9 22.3  
57 21.2 17.3 25.9



#18  
trans-1,2-Dichloroethene  
Concen: 5.331 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 96 Resp: 96267  
Ion Ratio Lower Upper  
96 100  
61 131.6 94.6 175.6  
98 59.4 45.7 84.9





#19

1,1-Dichloroethane

Concen: 5.328 ug/L

RT: 3.866 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

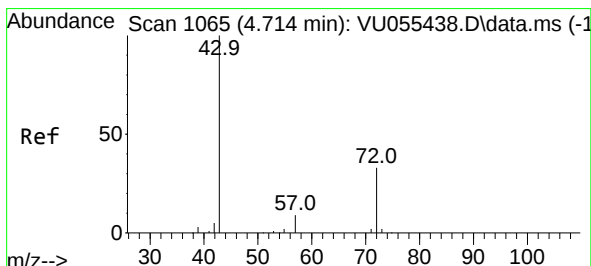
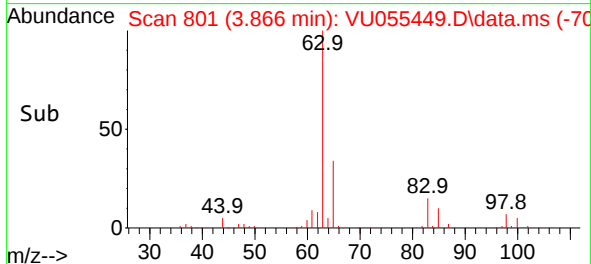
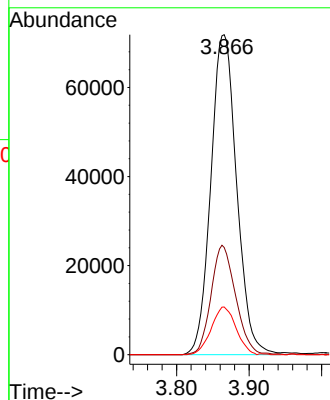
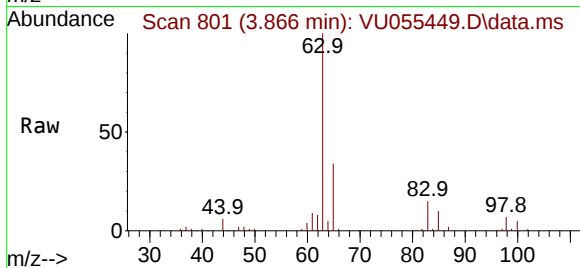
Tgt Ion: 63 Resp: 177922

Ion Ratio Lower Upper

63 100

65 33.5 22.0 41.0

83 14.9 10.1 18.9



#21

2-Butanone

Concen: 51.873 ug/L

RT: 4.705 min Scan# 1062

Delta R.T. -0.009 min

Lab File: VU055449.D

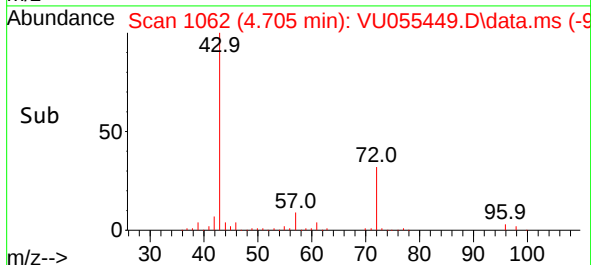
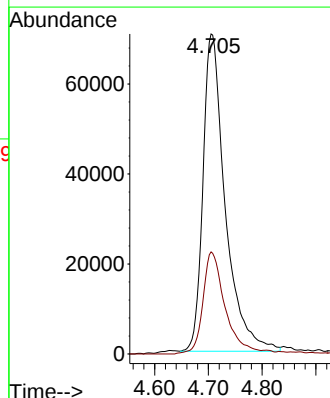
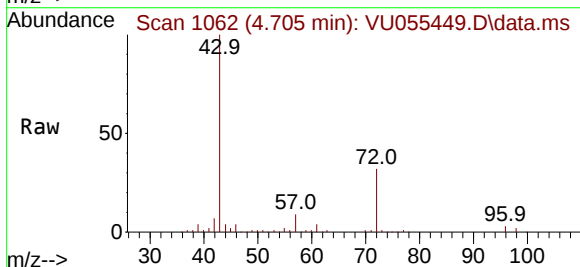
Acq: 21 Sep 2023 16:36

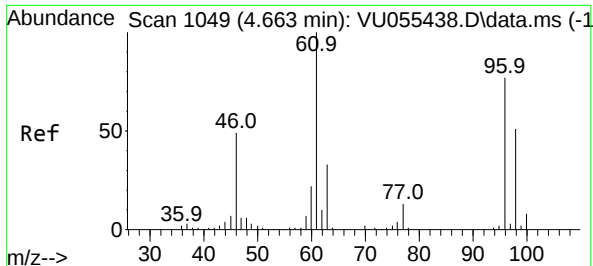
Tgt Ion: 43 Resp: 202872

Ion Ratio Lower Upper

43 100

72 31.8 15.1 45.3

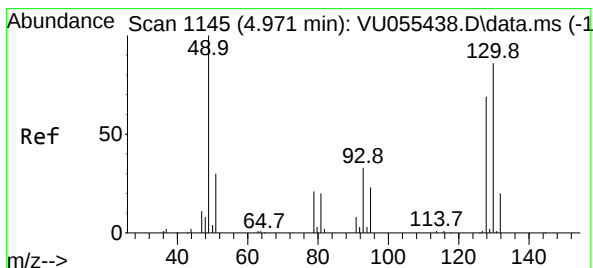
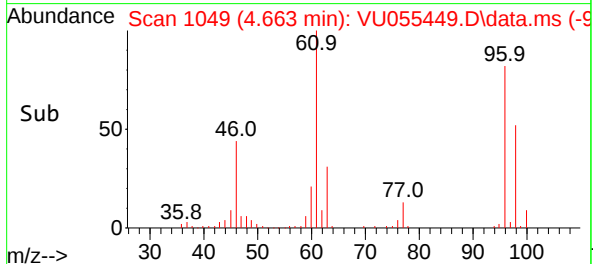
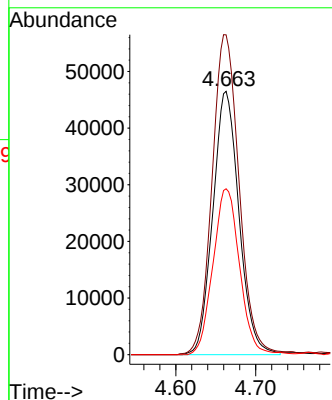
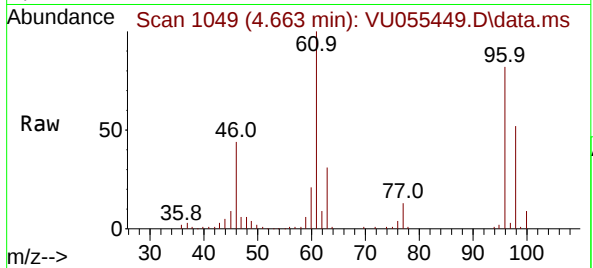




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.052 ug/L  
 RT: 4.663 min Scan# 1049  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

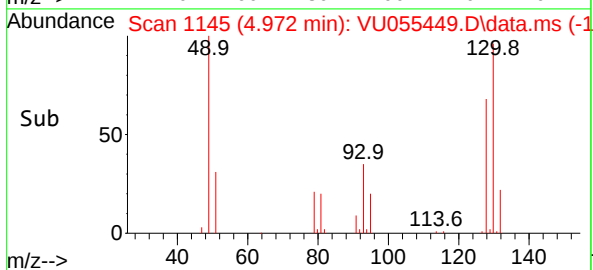
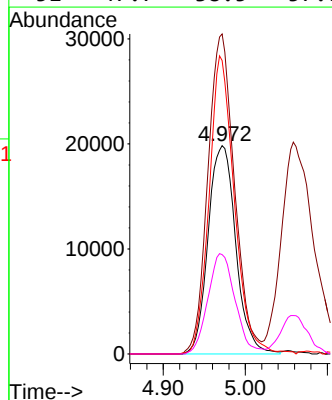
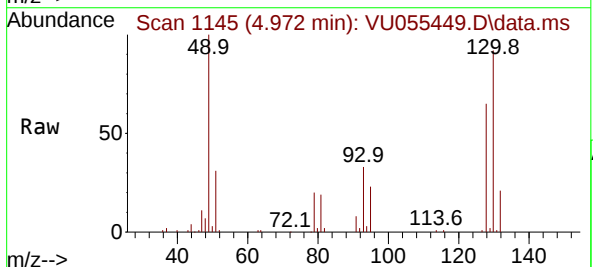
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

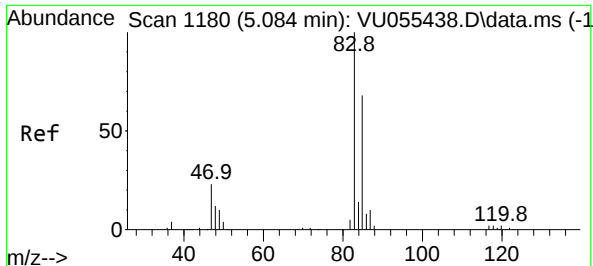
Tgt Ion: 96 Resp: 105770  
 Ion Ratio Lower Upper  
 96 100  
 61 121.5 87.8 163.2  
 98 63.0 44.4 82.4



#23  
 Bromochloromethane  
 Concen: 5.251 ug/L  
 RT: 4.972 min Scan# 1145  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

Tgt Ion:128 Resp: 46465  
 Ion Ratio Lower Upper  
 128 100  
 49 153.6 102.8 191.0  
 130 140.8 89.9 166.9  
 51 47.7 38.5 57.7





#25

Chloroform

Concen: 5.466 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

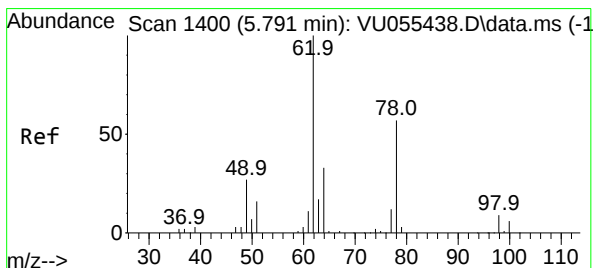
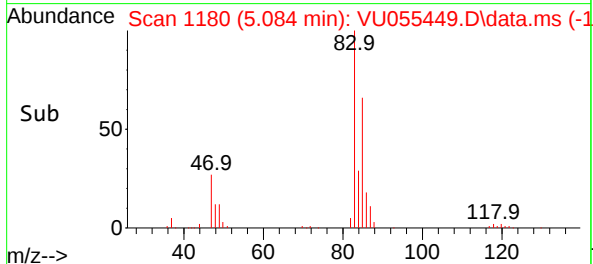
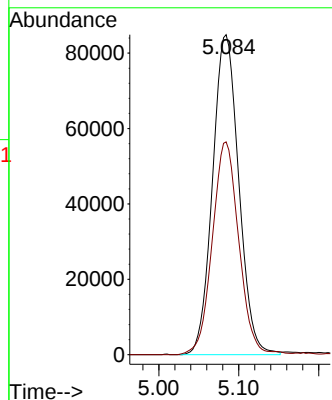
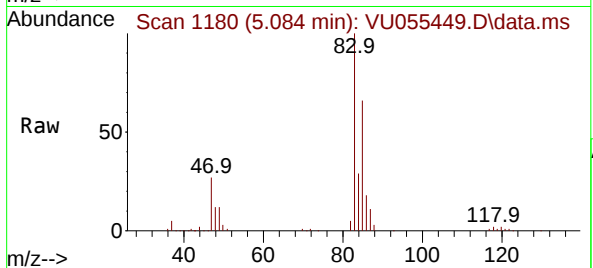
DCJL2MSD

Tgt Ion: 83 Resp: 193269

Ion Ratio Lower Upper

83 100

85 66.5 44.9 83.5



#27

1,2-Dichloroethane

Concen: 5.443 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. 0.000 min

Lab File: VU055449.D

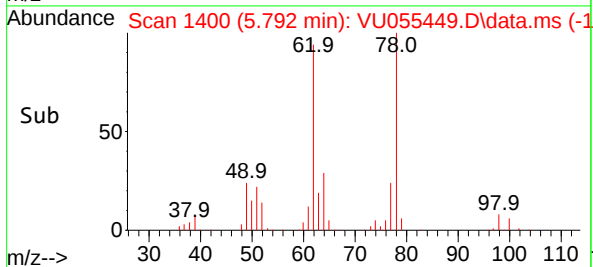
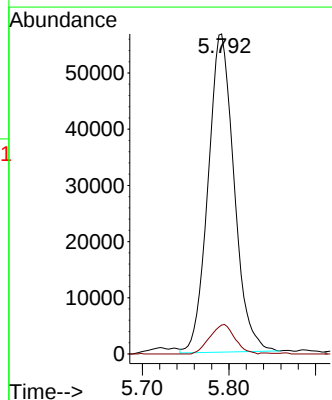
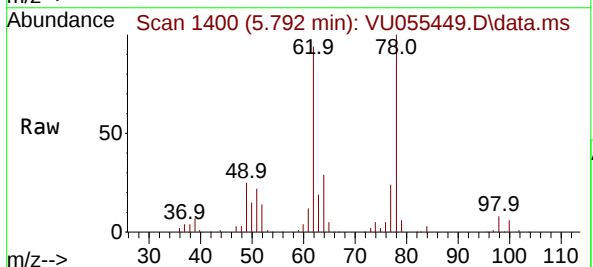
Acq: 21 Sep 2023 16:36

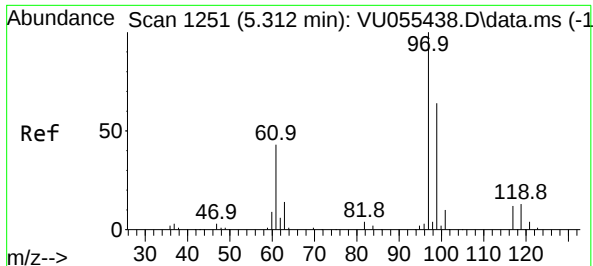
Tgt Ion: 62 Resp: 118035

Ion Ratio Lower Upper

62 100

98 9.0 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 5.565 ug/L

RT: 5.313 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

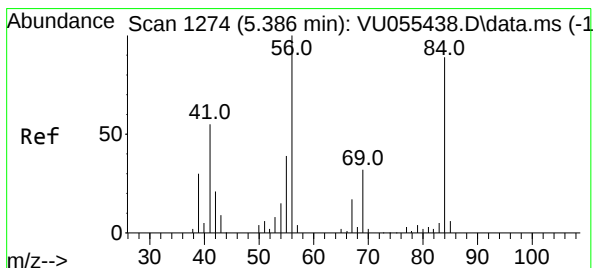
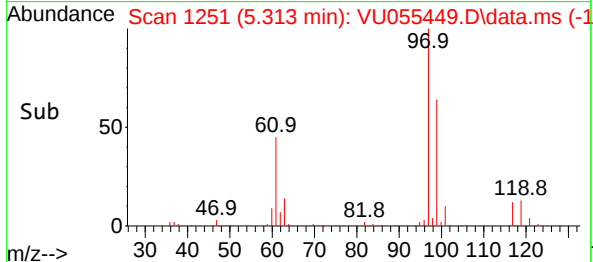
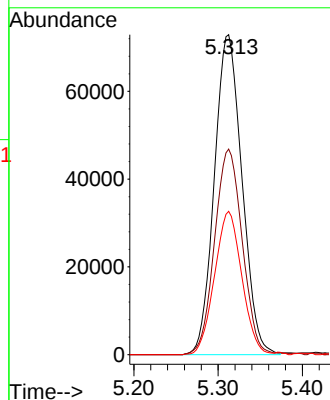
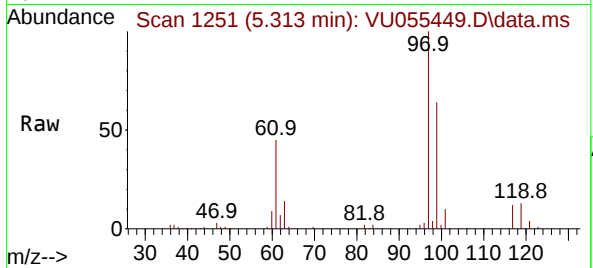
Tgt Ion: 97 Resp: 166178

Ion Ratio Lower Upper

97 100

99 64.2 50.7 76.1

61 44.2 34.6 51.8



#30

Cyclohexane

Concen: 5.174 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. -0.003 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

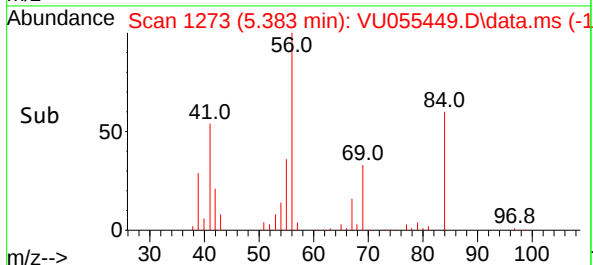
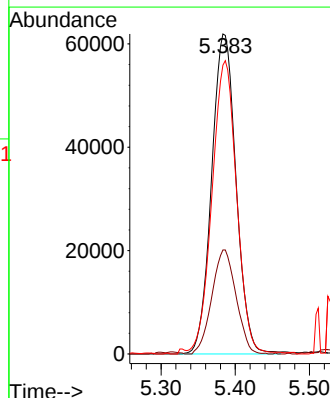
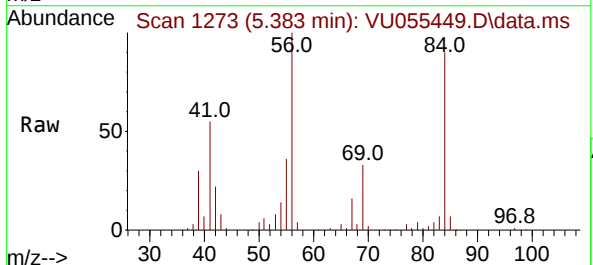
Tgt Ion: 56 Resp: 141423

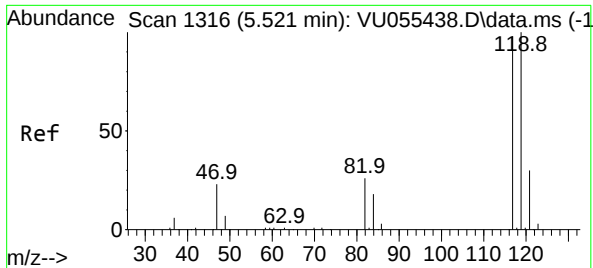
Ion Ratio Lower Upper

56 100

69 32.3 26.5 39.7

84 91.2 72.6 108.8

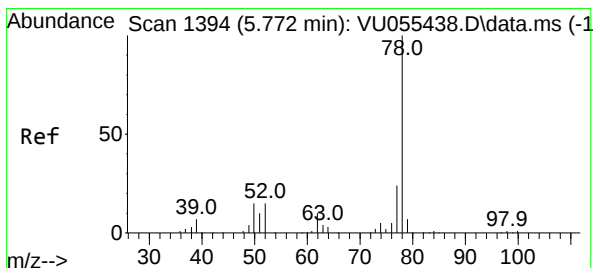
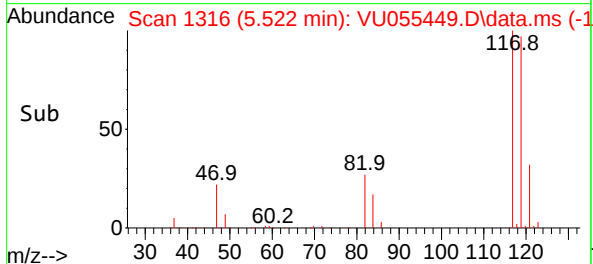
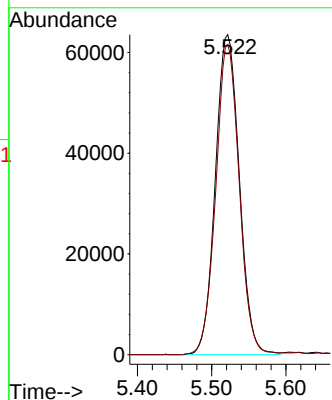
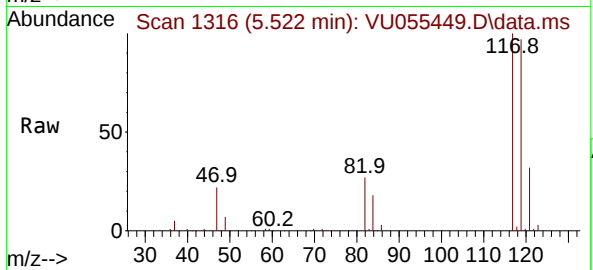




#31  
Carbon tetrachloride  
Concen: 5.572 ug/L  
RT: 5.522 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

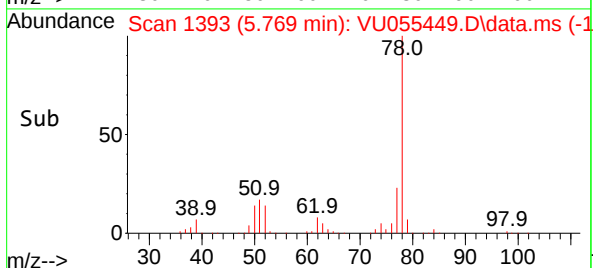
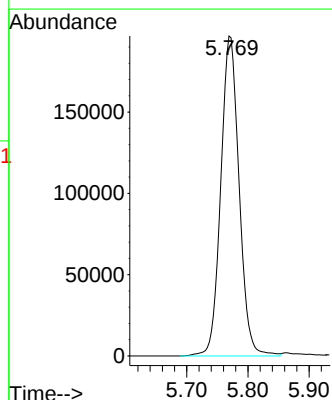
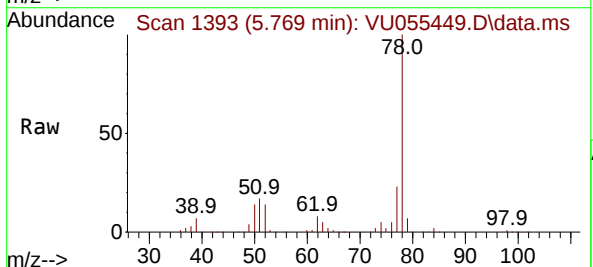
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

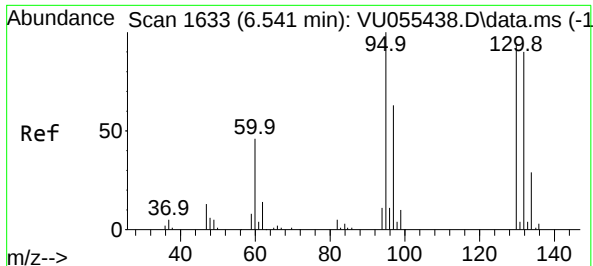
Tgt Ion:117 Resp: 142604  
Ion Ratio Lower Upper  
117 100  
119 95.1 75.2 112.8



#33  
Benzene  
Concen: 5.443 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 78 Resp: 410307

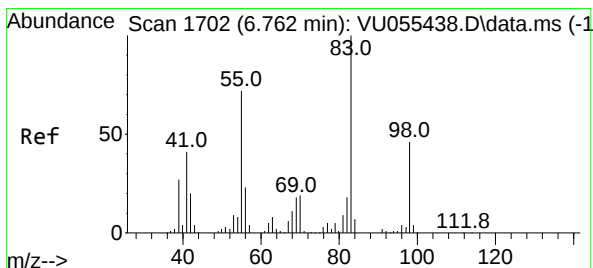
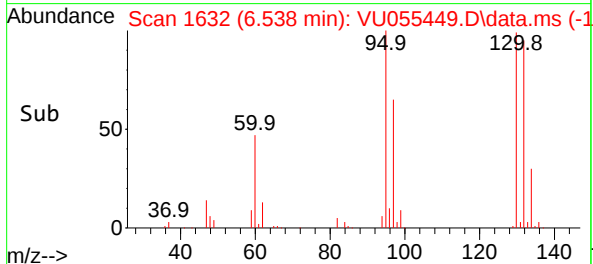
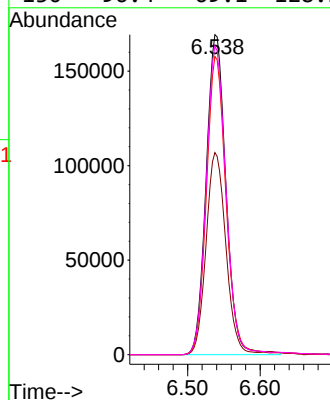
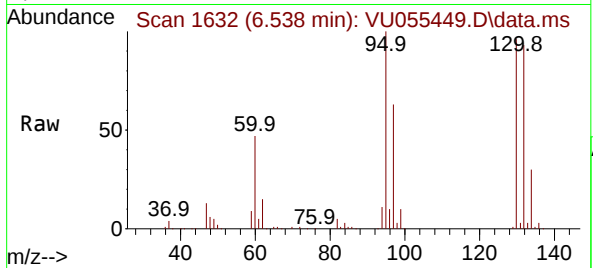




#34  
Trichloroethene  
Concen: 15.088 ug/L  
RT: 6.538 min Scan# 1  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

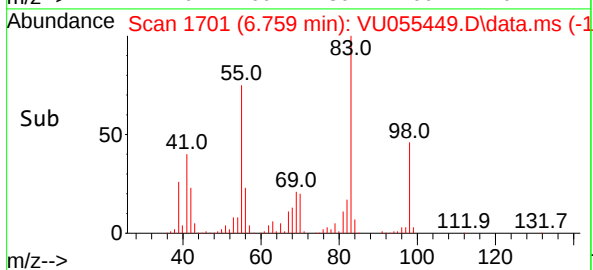
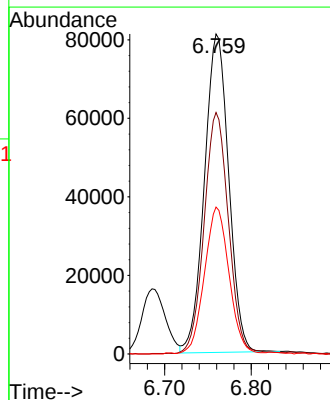
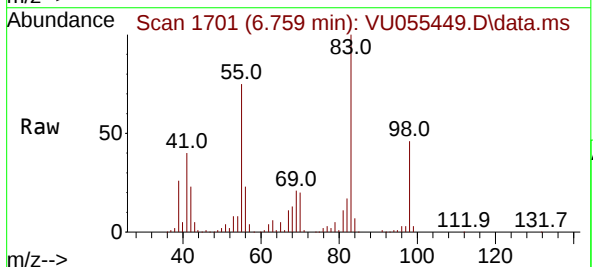
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

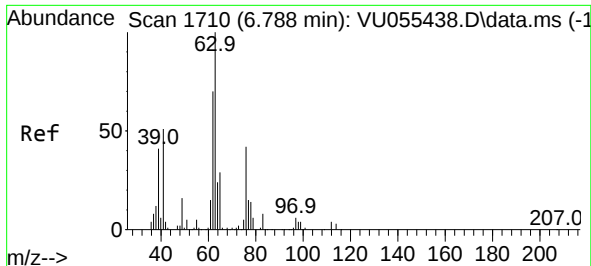
Tgt Ion: 95 Resp: 321749  
Ion Ratio Lower Upper  
95 100  
97 63.1 45.4 84.2  
132 93.2 65.2 121.2  
130 96.4 69.1 128.3



#35  
Methylcyclohexane  
Concen: 5.143 ug/L  
RT: 6.759 min Scan# 1701  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 83 Resp: 157985  
Ion Ratio Lower Upper  
83 100  
55 75.9 59.1 88.7  
98 46.3 36.3 54.5

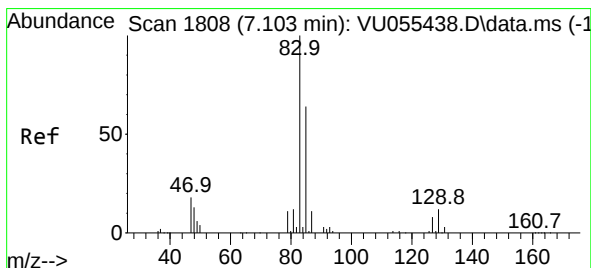
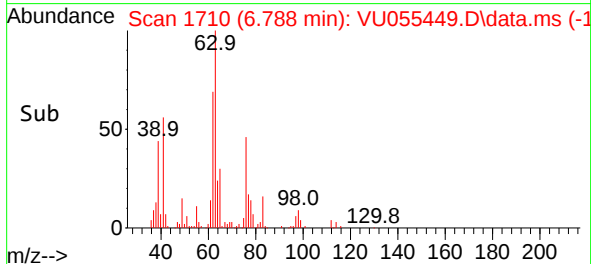
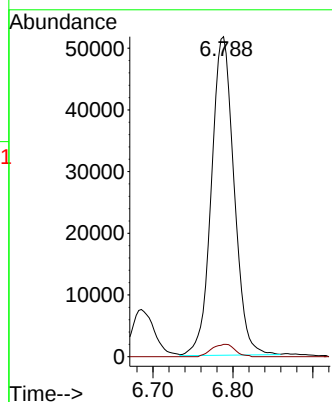
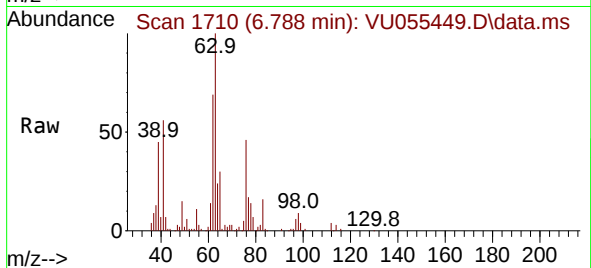




#37  
1,2-Dichloropropane  
Concen: 5.151 ug/L  
RT: 6.788 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

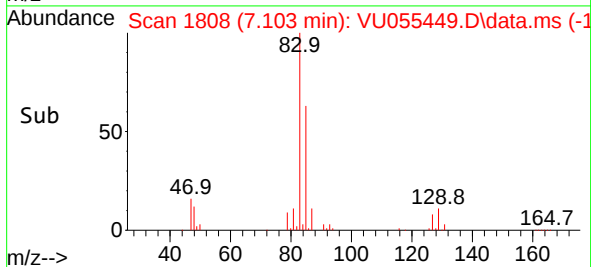
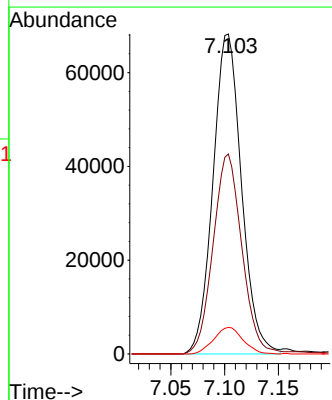
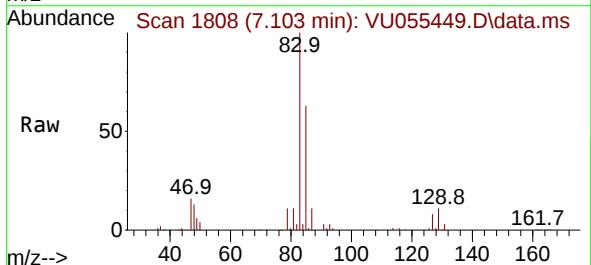
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

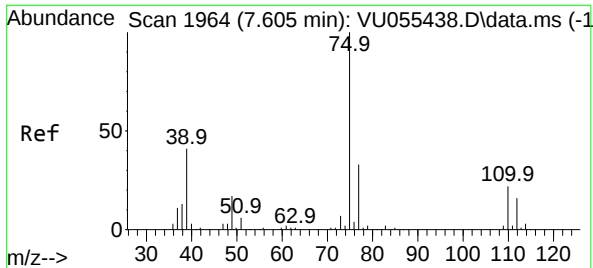
Tgt Ion: 63 Resp: 101549  
Ion Ratio Lower Upper  
63 100  
112 4.0 3.0 4.6



#38  
Bromodichloromethane  
Concen: 5.447 ug/L  
RT: 7.103 min Scan# 1808  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion: 83 Resp: 125861  
Ion Ratio Lower Upper  
83 100  
85 62.5 46.8 86.8  
127 8.3 7.2 10.8

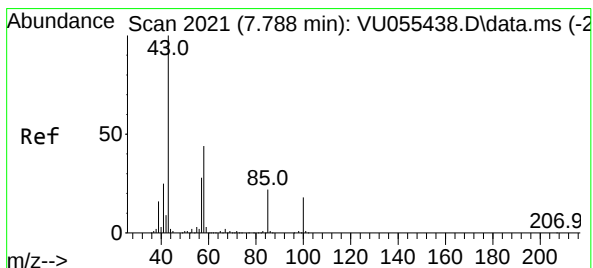
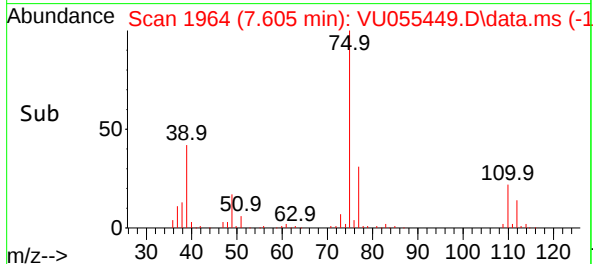
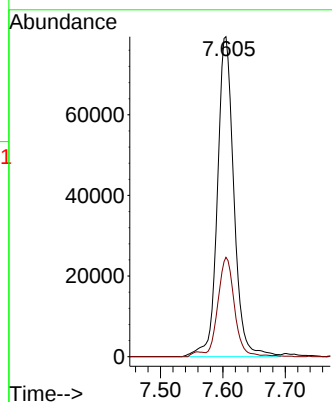
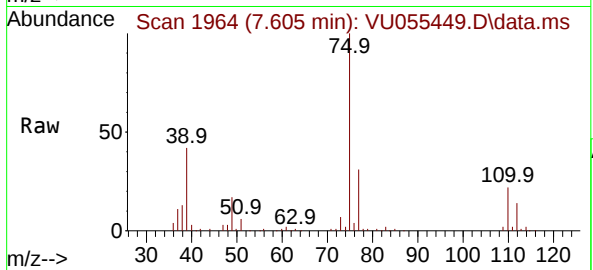




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.550 ug/L  
 RT: 7.605 min Scan# 1964  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

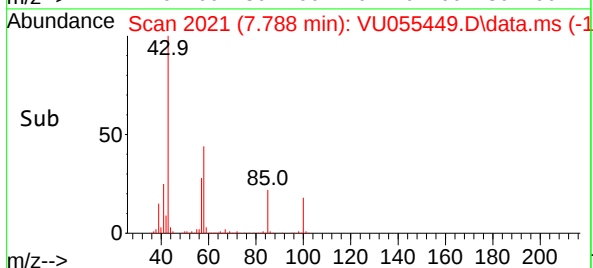
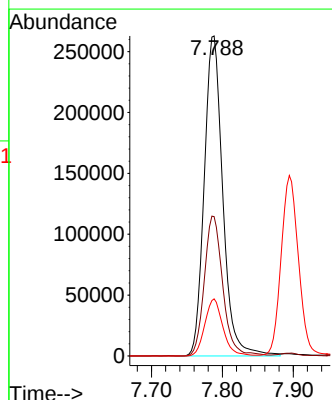
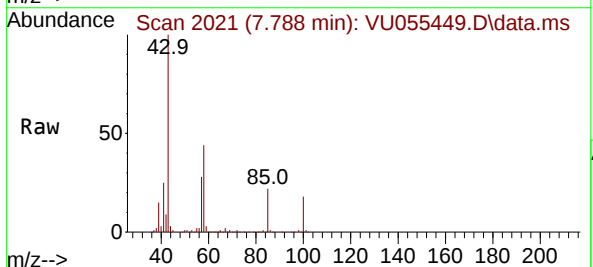
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

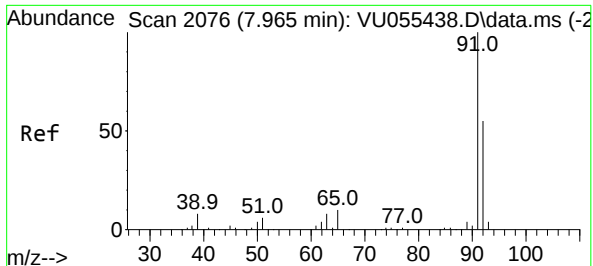
Tgt Ion: 75 Resp: 146034  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 21.6 40.2



#40  
 4-Methyl-2-pentanone  
 Concen: 53.650 ug/L  
 RT: 7.788 min Scan# 2021  
 Delta R.T. 0.000 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

Tgt Ion: 43 Resp: 479824  
 Ion Ratio Lower Upper  
 43 100  
 58 43.4 34.2 51.4  
 100 17.3 13.4 20.0





#42

Toluene

Concen: 5.372 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

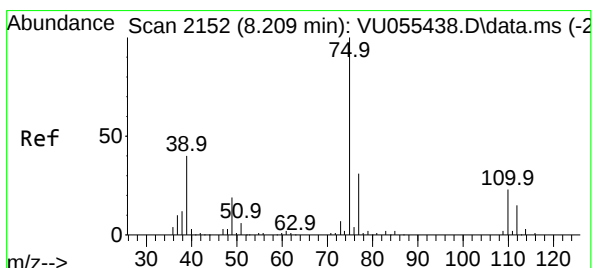
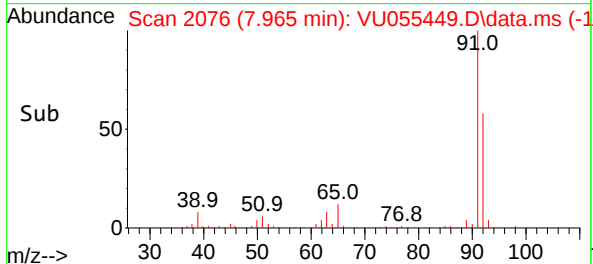
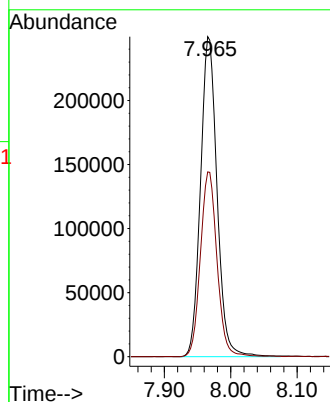
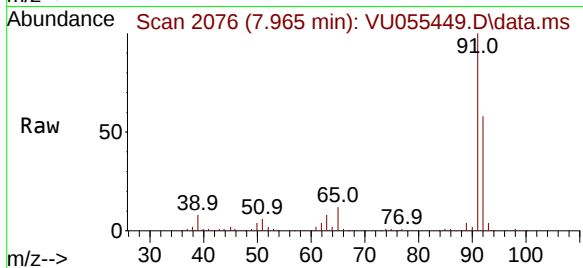
DCJL2MSD

Tgt Ion: 91 Resp: 431953

Ion Ratio Lower Upper

91 100

92 57.8 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 5.344 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.003 min

Lab File: VU055449.D

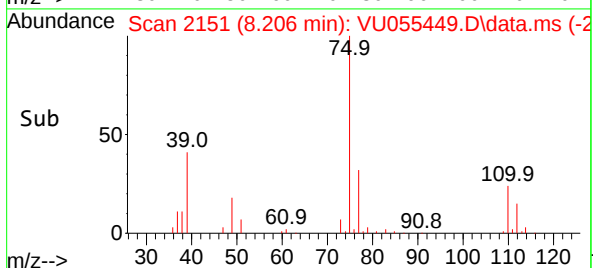
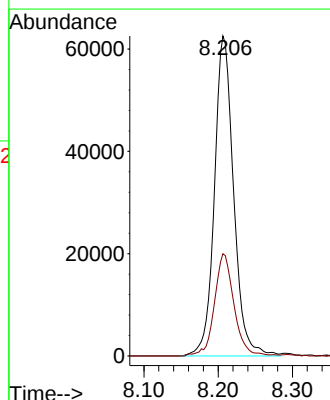
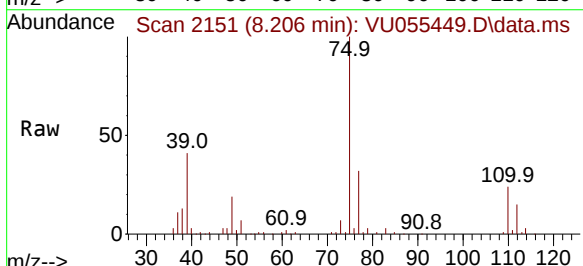
Acq: 21 Sep 2023 16:36

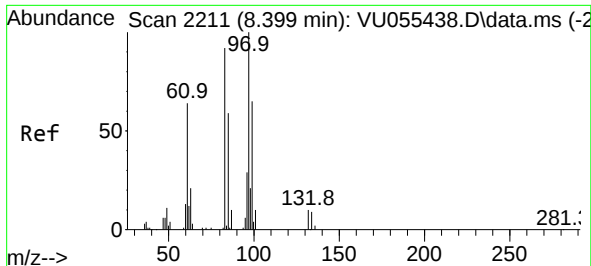
Tgt Ion: 75 Resp: 112503

Ion Ratio Lower Upper

75 100

77 32.0 21.8 40.4

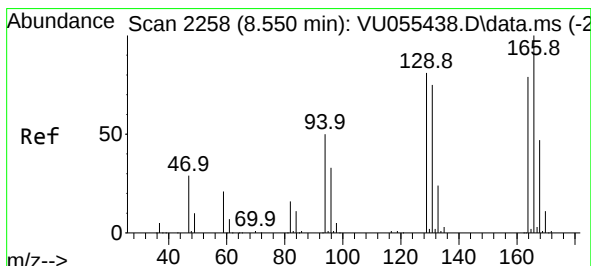
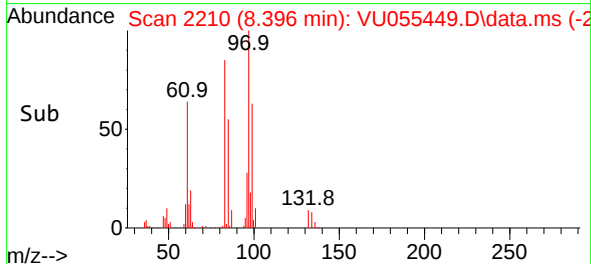
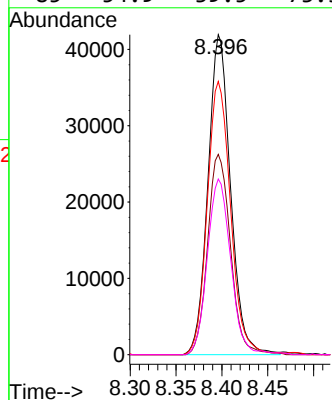
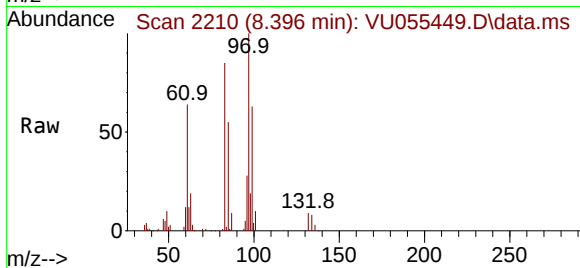




#45  
1,1,2-Trichloroethane  
Concen: 5.215 ug/L  
RT: 8.396 min Scan# 2110  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

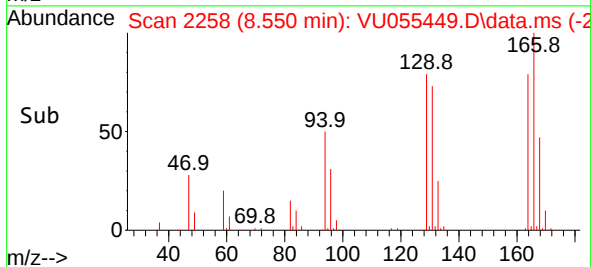
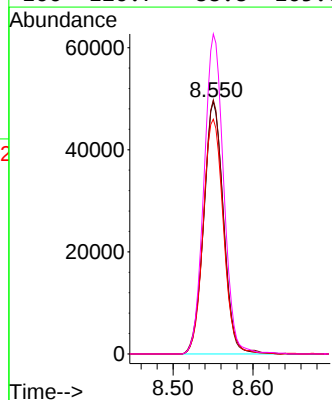
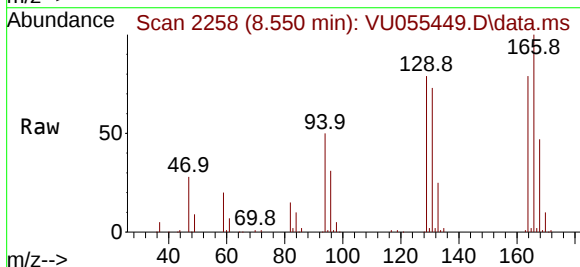
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

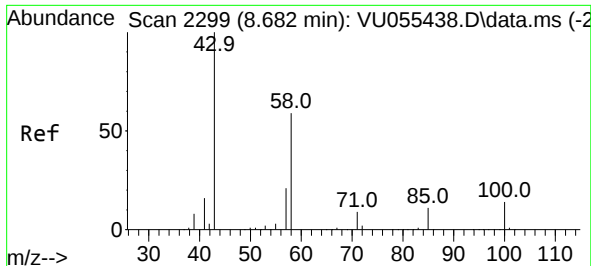
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 72090 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.6  | 44.1  | 81.9  |
| 83       | 85.4  | 61.5  | 114.1 |
| 85       | 54.9  | 39.5  | 73.3  |



#47  
Tetrachloroethene  
Concen: 5.539 ug/L  
RT: 8.550 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 84729 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 100.6 | 67.4  | 125.2 |
| 131      | 93.0  | 66.4  | 123.2 |
| 166      | 126.7 | 88.8  | 165.0 |

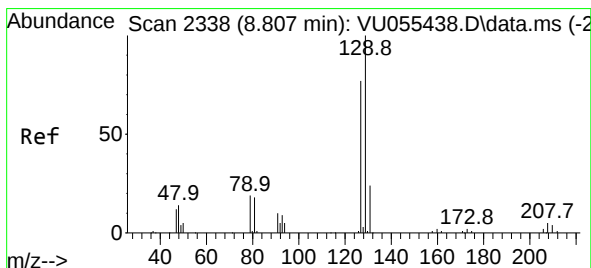
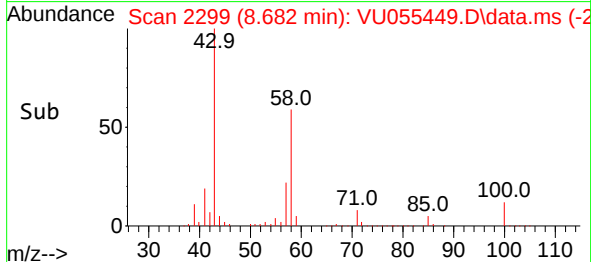
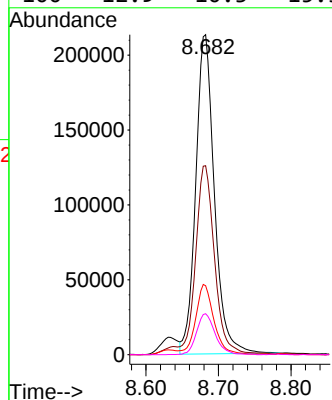
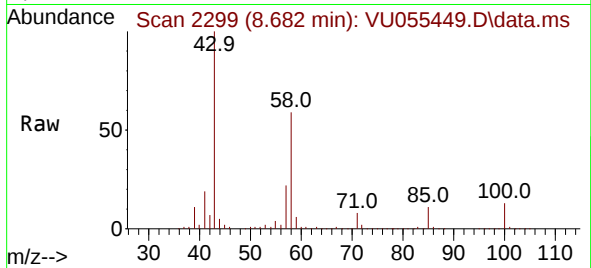




#48  
2-Hexanone  
Concen: 55.048 ug/L  
RT: 8.682 min Scan# 2299  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

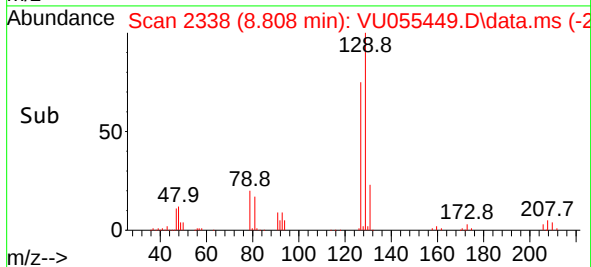
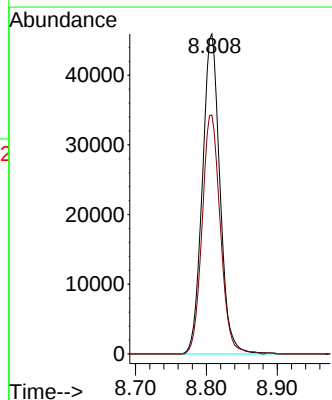
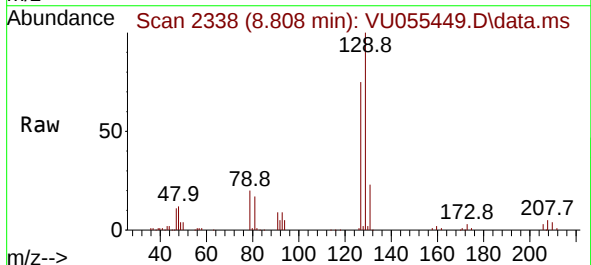
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

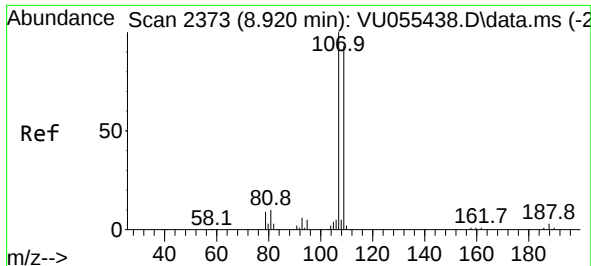
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 381562 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.6  | 48.5  | 72.7   |
| 57       | 21.3  | 17.0  | 25.4   |
| 100      | 12.9  | 10.3  | 15.5   |



#49  
Dibromochloromethane  
Concen: 5.454 ug/L  
RT: 8.808 min Scan# 2338  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 79033 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 74.7  | 56.8  | 105.6 |





#50

1,2-Dibromoethane

Concen: 5.351 ug/L

RT: 8.920 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

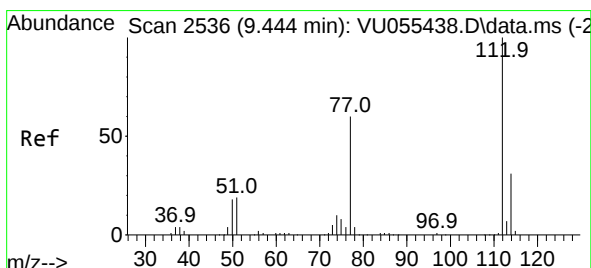
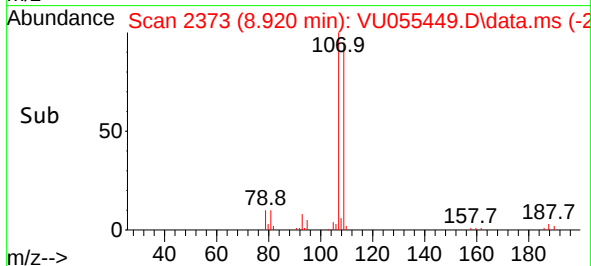
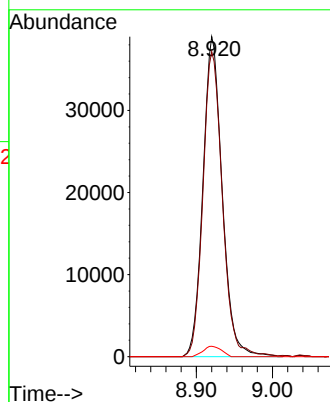
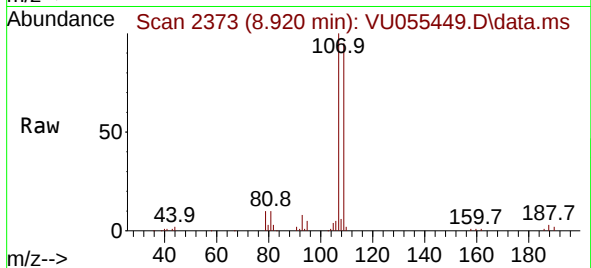
Tgt Ion:107 Resp: 68651

Ion Ratio Lower Upper

107 100

109 95.3 66.1 122.8

188 3.3 3.2 4.8



#51

Chlorobenzene

Concen: 5.188 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

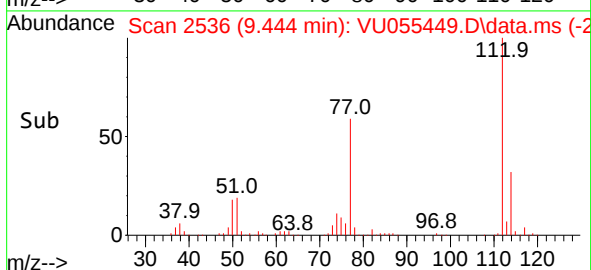
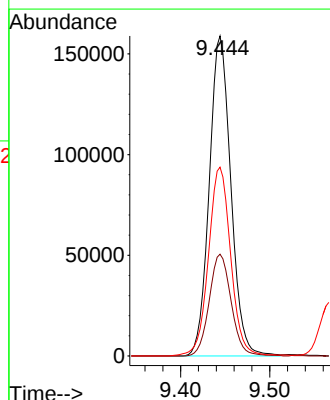
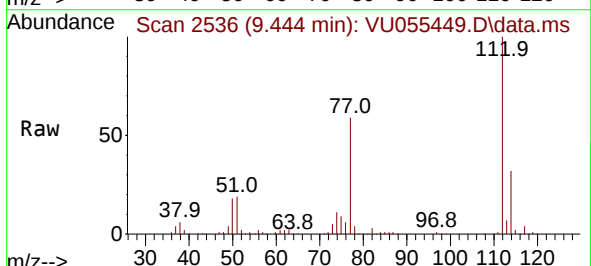
Tgt Ion:112 Resp: 267214

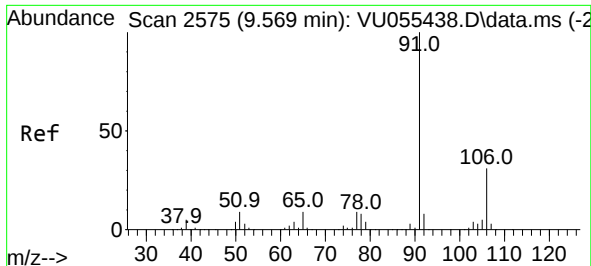
Ion Ratio Lower Upper

112 100

114 31.8 22.0 40.8

77 59.0 46.9 70.3





#52

Ethylbenzene

Concen: 5.289 ug/L

RT: 9.566 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

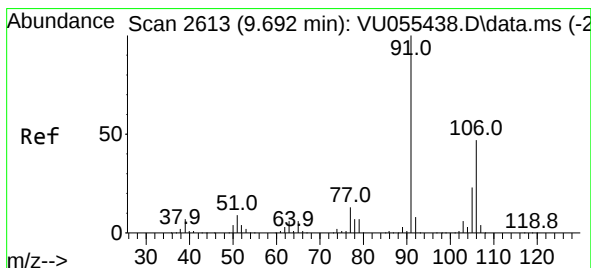
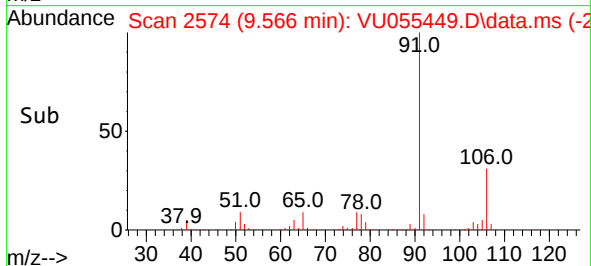
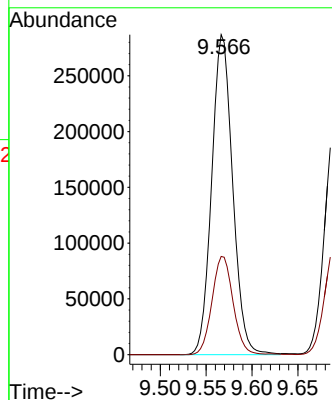
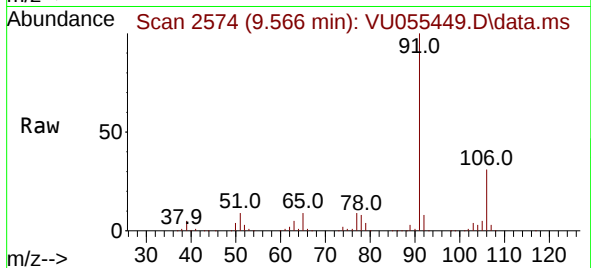
DCJL2MSD

Tgt Ion: 91 Resp: 455976

Ion Ratio Lower Upper

91 100

106 30.7 22.4 41.6



#53

m,p-Xylene

Concen: 5.346 ug/L

RT: 9.692 min Scan# 2613

Delta R.T. 0.000 min

Lab File: VU055449.D

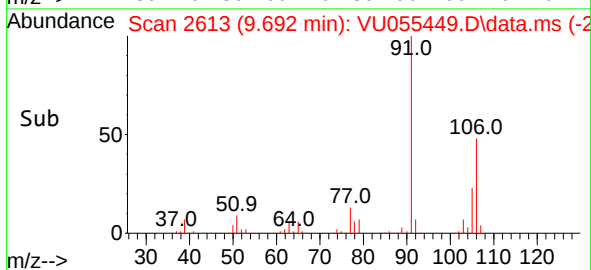
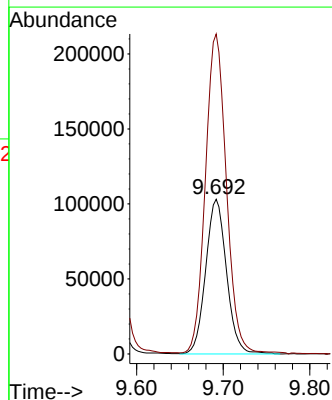
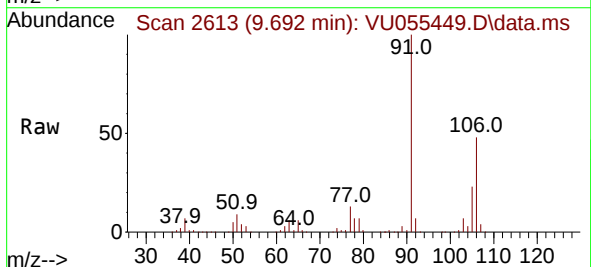
Acq: 21 Sep 2023 16:36

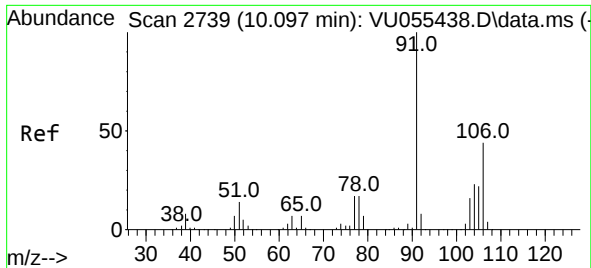
Tgt Ion:106 Resp: 172707

Ion Ratio Lower Upper

106 100

91 206.7 144.8 269.0

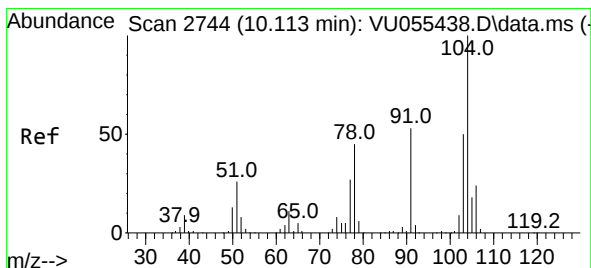
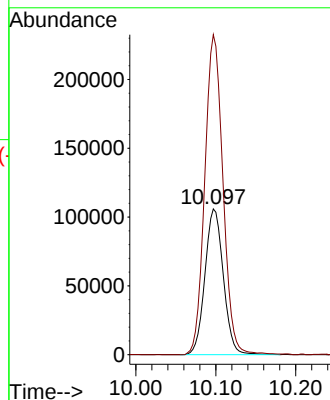
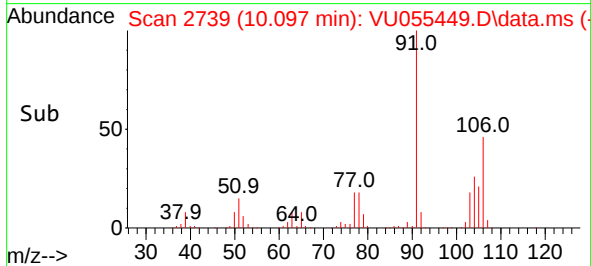
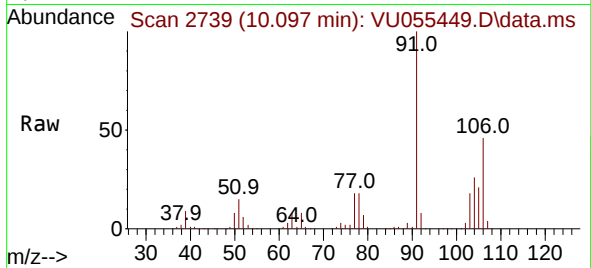




#54  
o-Xylene  
Concen: 5.399 ug/L  
RT: 10.097 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

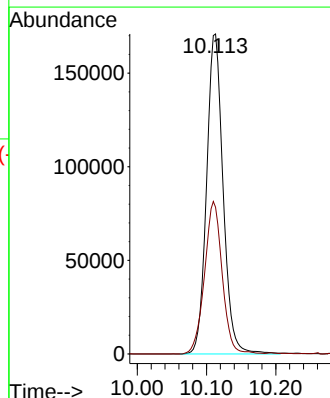
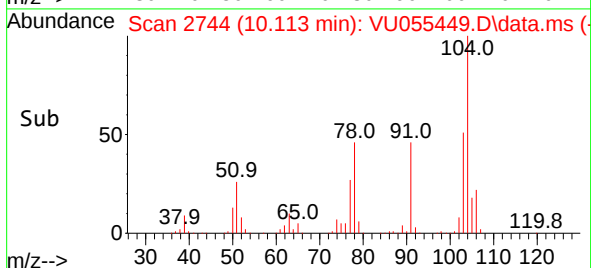
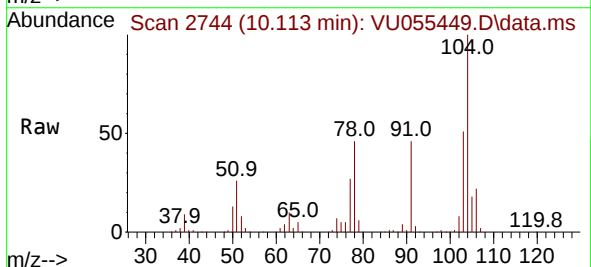
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

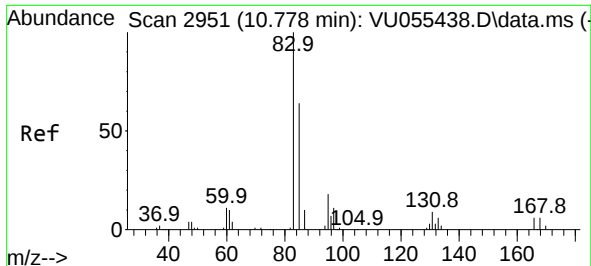
Tgt Ion:106 Resp: 169583  
Ion Ratio Lower Upper  
106 100  
91 219.5 157.6 292.8



#55  
Styrene  
Concen: 5.567 ug/L  
RT: 10.113 min Scan# 2744  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion:104 Resp: 282726  
Ion Ratio Lower Upper  
104 100  
78 45.8 31.2 58.0

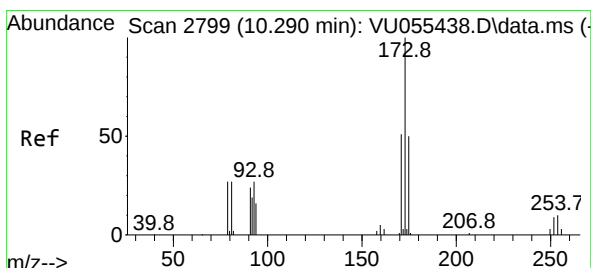
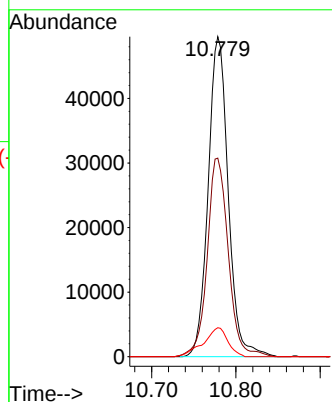
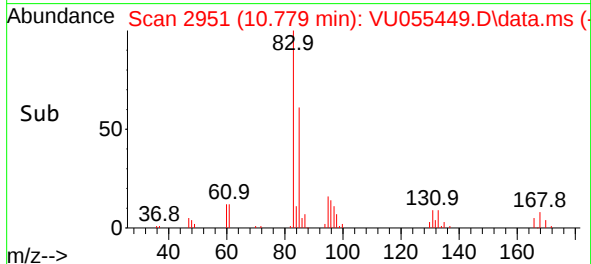
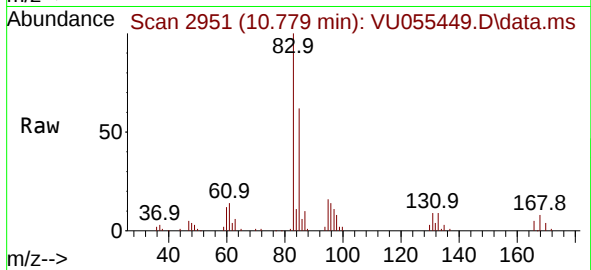




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.259 ug/L  
RT: 10.779 min Scan# 2951  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

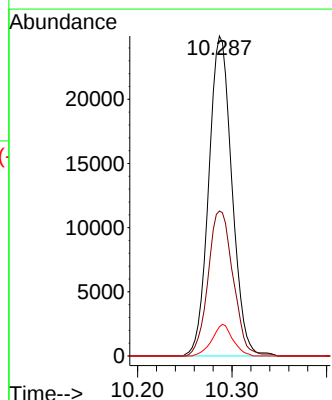
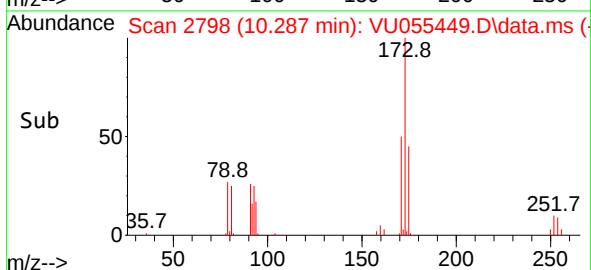
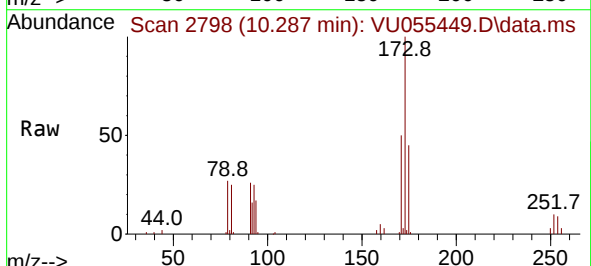
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

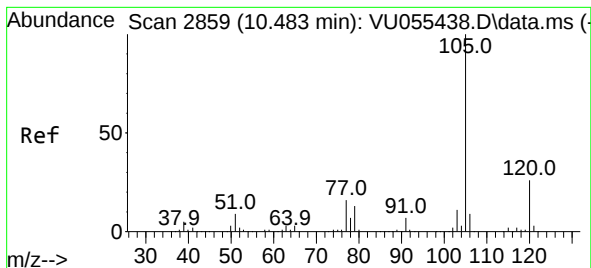
Tgt Ion: 83 Resp: 82078  
Ion Ratio Lower Upper  
83 100  
85 62.0 44.4 82.5  
131 9.1 7.4 11.2



#59  
Bromoform  
Concen: 5.377 ug/L  
RT: 10.287 min Scan# 2798  
Delta R.T. -0.003 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion:173 Resp: 42484  
Ion Ratio Lower Upper  
173 100  
175 48.8 39.4 59.2  
254 8.9 7.3 10.9





#60

Isopropylbenzene

Concen: 5.254 ug/L

RT: 10.483 min Scan# 2859

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

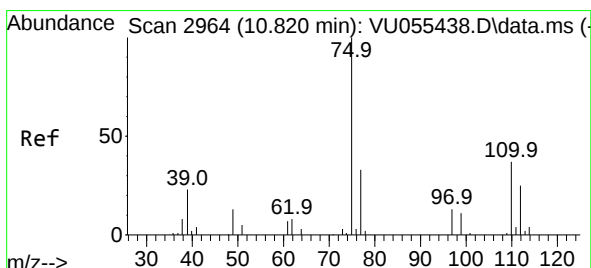
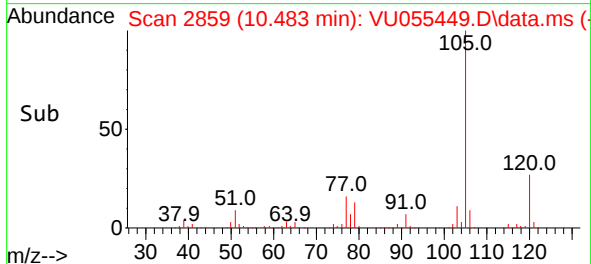
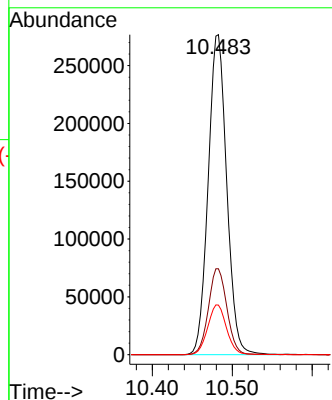
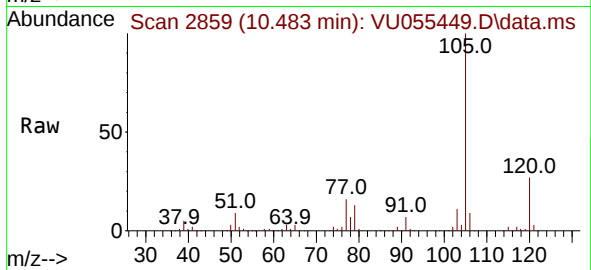
Tgt Ion:105 Resp: 446348

Ion Ratio Lower Upper

105 100

120 26.9 20.8 31.2

77 15.9 12.6 19.0



#61

1,2,3-Trichloropropane

Concen: 5.208 ug/L

RT: 10.820 min Scan# 2964

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

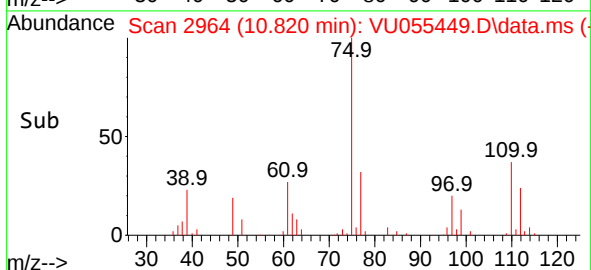
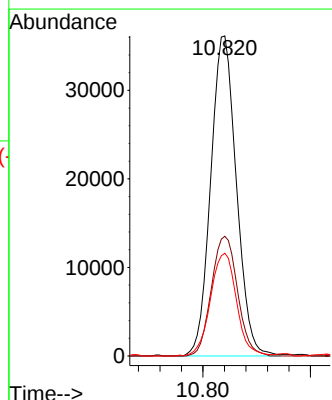
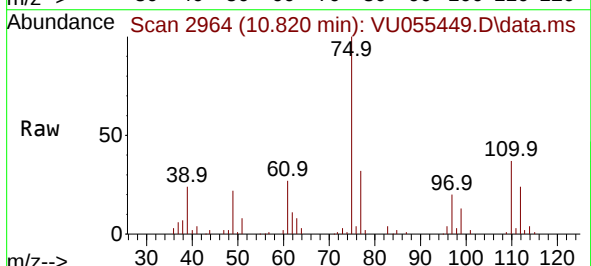
Tgt Ion: 75 Resp: 59923

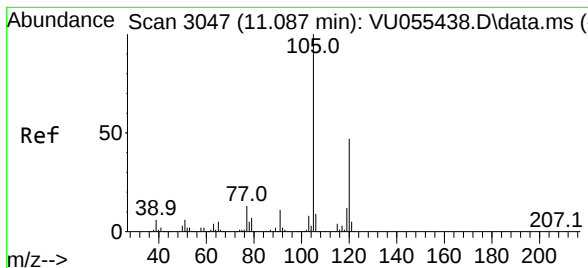
Ion Ratio Lower Upper

75 100

110 38.0 30.6 45.8

77 32.6 26.7 40.1





#62

1,3,5-Trimethylbenzene

Concen: 5.202 ug/L

RT: 11.084 min Scan# 3047

Delta R.T. -0.003 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

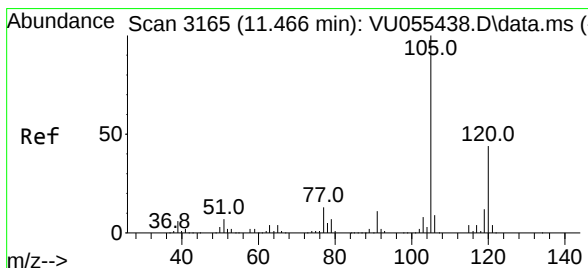
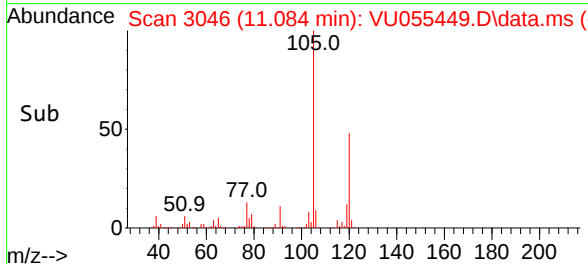
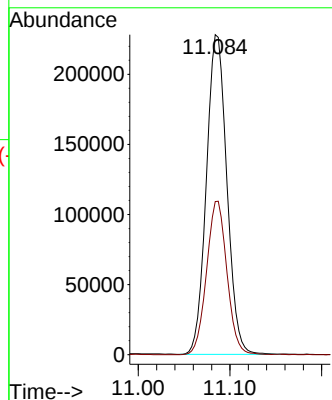
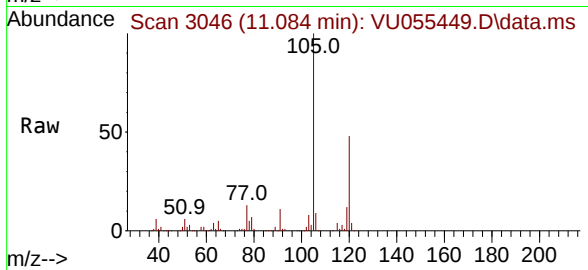
DCJL2MSD

Tgt Ion:105 Resp: 353443

Ion Ratio Lower Upper

105 100

120 47.8 38.1 57.1



#63

1,2,4-Trimethylbenzene

Concen: 5.216 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.000 min

Lab File: VU055449.D

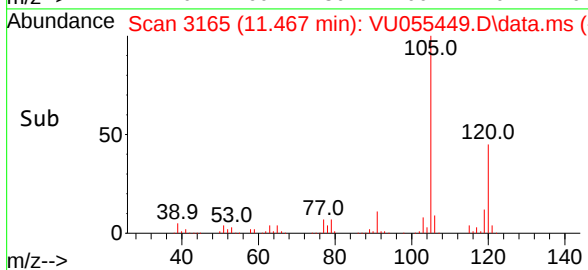
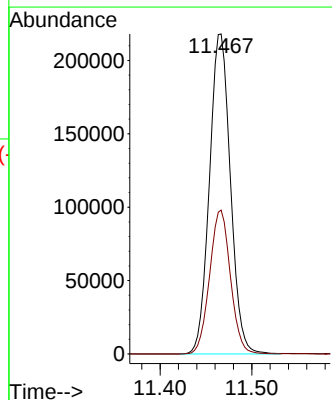
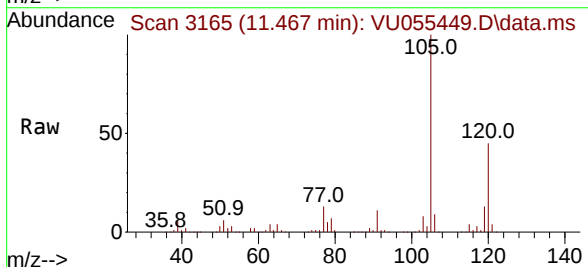
Acq: 21 Sep 2023 16:36

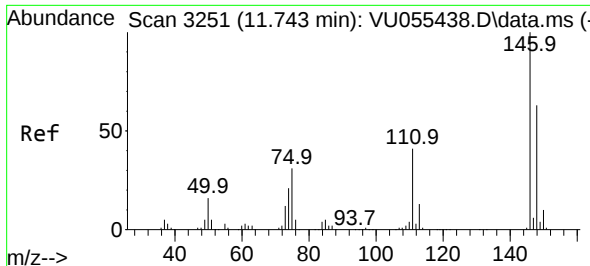
Tgt Ion:105 Resp: 346857

Ion Ratio Lower Upper

105 100

120 44.7 34.9 52.3

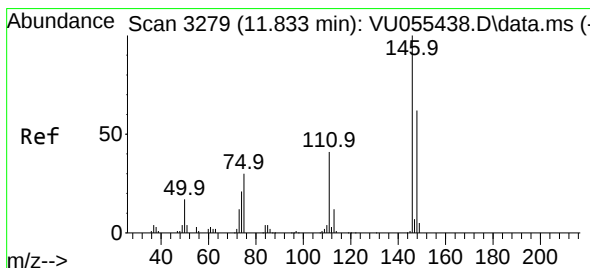
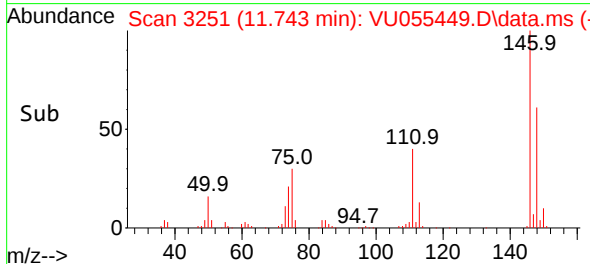
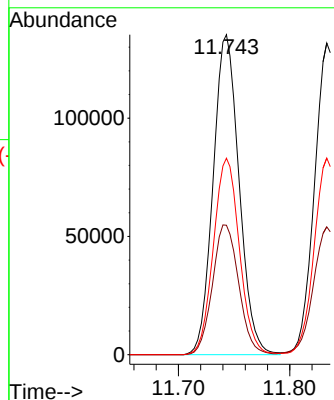
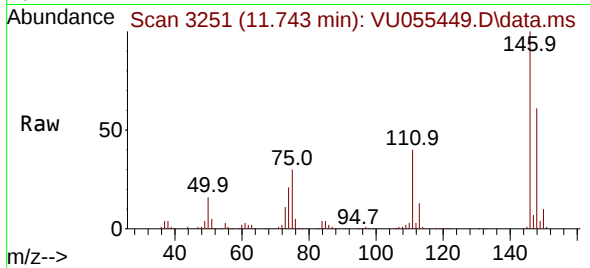




#64  
1,3-Dichlorobenzene  
Concen: 5.388 ug/L  
RT: 11.743 min Scan# 3251  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

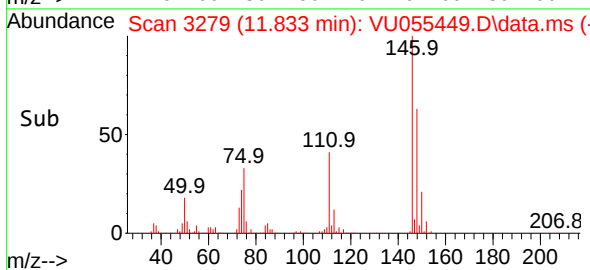
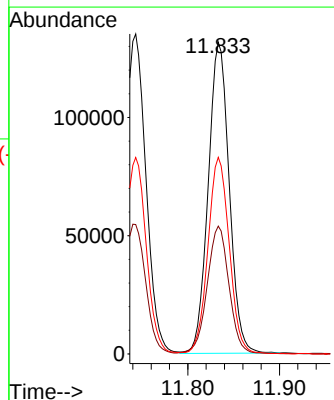
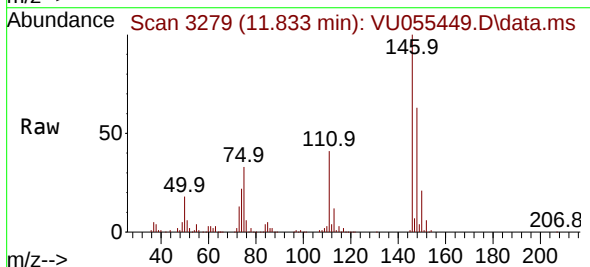
Instrument :  
MSVOA\_U  
ClientSampleId :  
DCJL2MSD

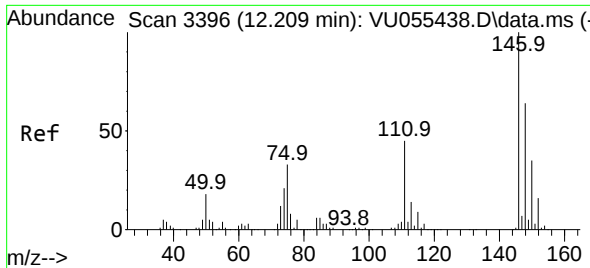
Tgt Ion:146 Resp: 219145  
Ion Ratio Lower Upper  
146 100  
111 40.5 28.8 53.6  
148 61.4 44.6 82.8



#65  
1,4-Dichlorobenzene  
Concen: 5.148 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. 0.000 min  
Lab File: VU055449.D  
Acq: 21 Sep 2023 16:36

Tgt Ion:146 Resp: 209278  
Ion Ratio Lower Upper  
146 100  
111 41.0 29.0 53.8  
148 63.1 45.4 84.4





#67

1,2-Dichlorobenzene

Concen: 5.280 ug/L

RT: 12.209 min Scan# 3396

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

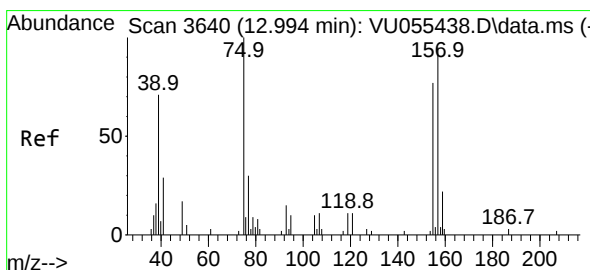
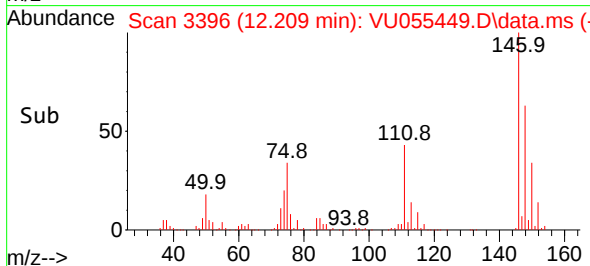
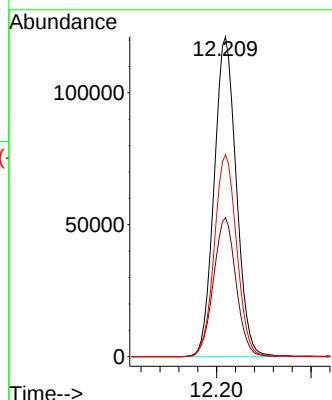
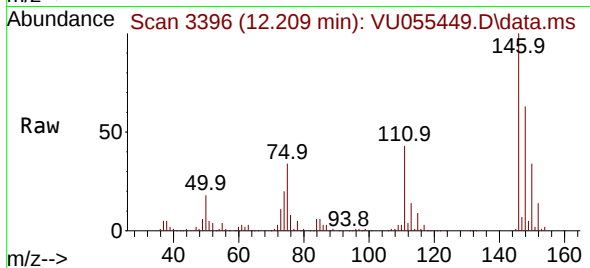
Tgt Ion:146 Resp: 196883

Ion Ratio Lower Upper

146 100

111 43.5 34.6 52.0

148 63.2 51.8 77.8



#68

1,2-Dibromo-3-chloropropane

Concen: 5.792 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. 0.000 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

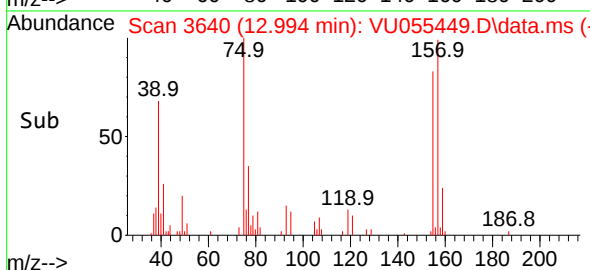
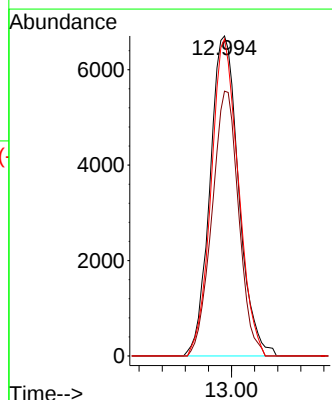
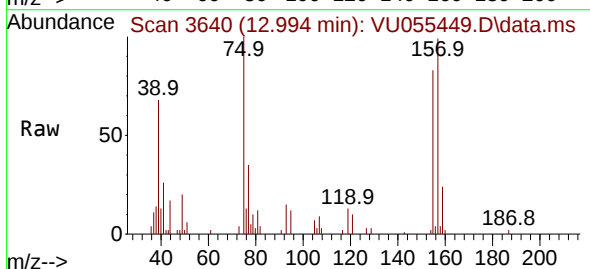
Tgt Ion: 75 Resp: 11553

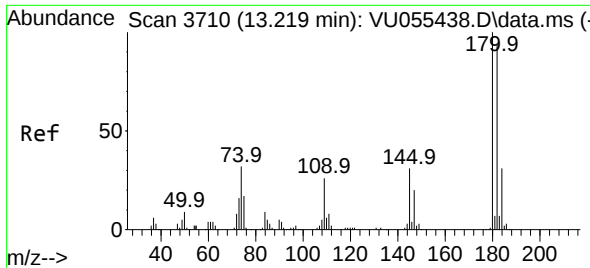
Ion Ratio Lower Upper

75 100

155 82.7 69.2 103.8

157 99.1 81.9 122.9

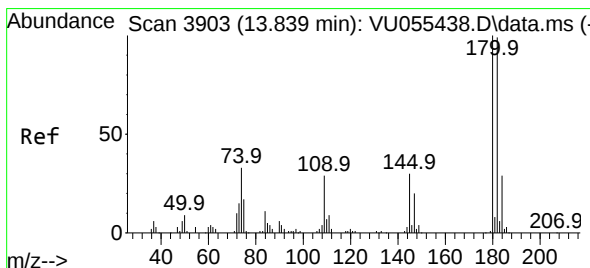
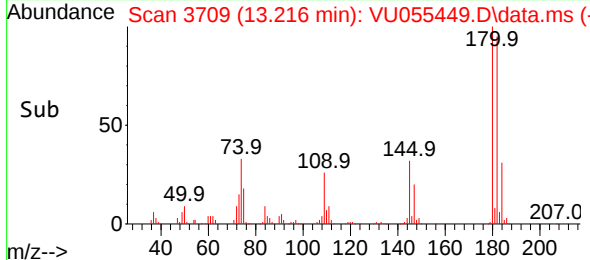
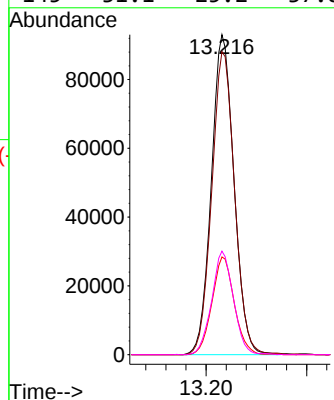
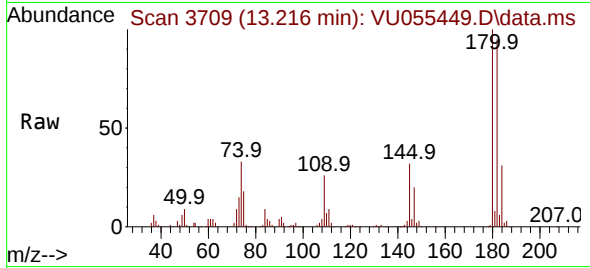




#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.189 ug/L  
 RT: 13.216 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

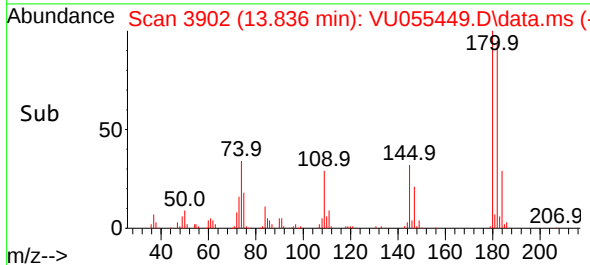
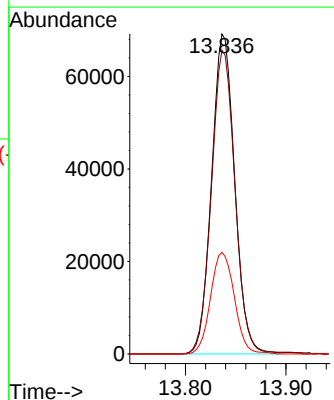
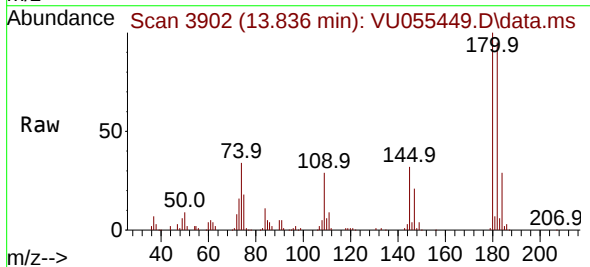
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DCJL2MSD

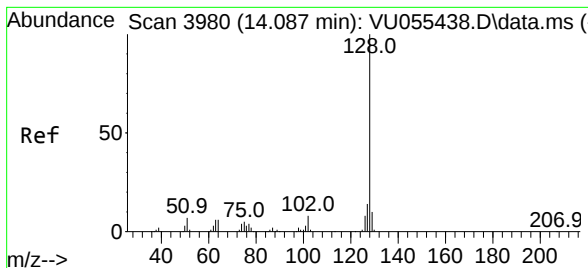
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 145345     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.5  | 77.1 115.7 |
| 184         | 30.0  | 24.0 36.0  |
| 145         | 31.1  | 25.2 37.8  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.167 ug/L  
 RT: 13.836 min Scan# 3902  
 Delta R.T. -0.003 min  
 Lab File: VU055449.D  
 Acq: 21 Sep 2023 16:36

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 110343     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.8  | 76.4 114.6 |
| 145         | 32.8  | 25.4 38.0  |





#71

Naphthalene

Concen: 5.351 ug/L

RT: 14.084 min Scan# 3980

Delta R.T. -0.003 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Instrument :

MSVOA\_U

ClientSampleId :

DCJL2MSD

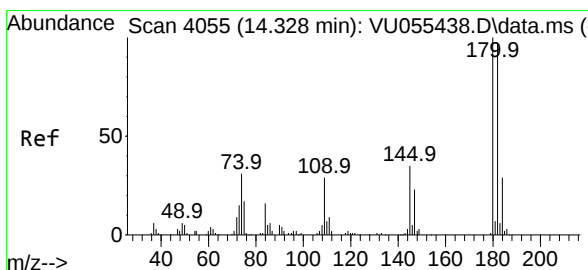
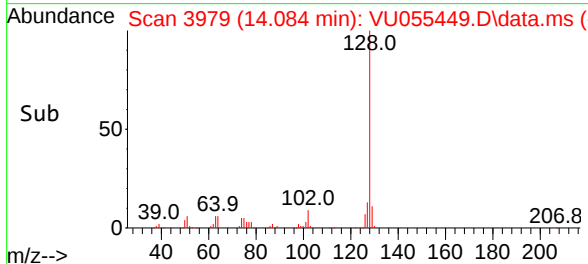
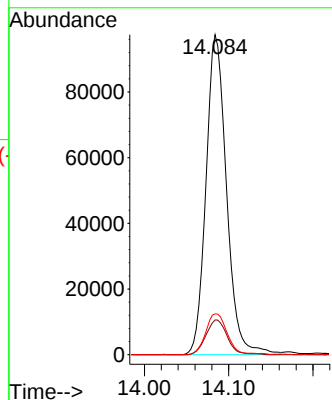
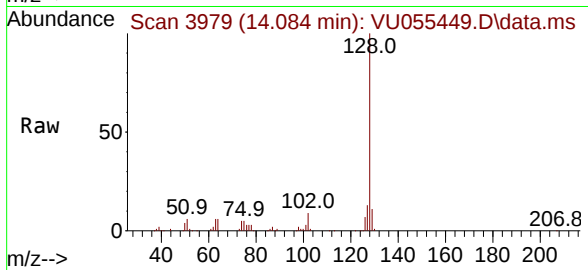
Tgt Ion:128 Resp: 165410

Ion Ratio Lower Upper

128 100

129 11.3 8.5 12.7

127 13.3 10.2 15.4



#72

1,2,3-Trichlorobenzene

Concen: 5.270 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. -0.003 min

Lab File: VU055449.D

Acq: 21 Sep 2023 16:36

Tgt Ion:180 Resp: 97917

Ion Ratio Lower Upper

180 100

182 96.3 76.2 114.4

145 33.9 26.0 39.0

