

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101221\  
 Data File : VU045297.D  
 Acq On : 12 Oct 2021 17:25  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 13 02:55:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 13 02:48:52 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 282848   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 274965   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.815  | 152   | 138774   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600   | 65    | 107379   | 34.679   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 69.360%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 92882    | 37.855   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 75.700%  |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 215864   | 41.513   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 83.020%  |
| 21) 2-Butanone-d5             | 4.626   | 46    | 231906   | 94.737   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 94.740%  |
| 24) Chloroform-d              | 5.070   | 84    | 224137   | 45.832   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.660%  |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 148396   | 44.798   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 89.600%  |
| 32) Benzene-d6                | 5.732   | 84    | 443488   | 46.481   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.960%  |
| 36) 1,2-Dichloropropane-d6    | 6.697   | 67    | 144008   | 46.289   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.580%  |
| 41) Toluene-d8                | 7.902   | 98    | 400822   | 48.680   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.360%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 69340    | 50.105   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 100.220% |
| 47) 2-Hexanone-d5             | 8.635   | 63    | 161022   | 93.397   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761  | 84    | 222317   | 45.891   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 91.780%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.198  | 152   | 149658   | 49.554   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.100%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.388   | 85    | 120734   | 44.580   | ug/L   | 99       |
| 3) Chloromethane              | 1.523   | 50    | 140670   | 41.671   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 141365   | 42.743   | ug/L   | 97       |
| 6) Bromomethane               | 1.848   | 94    | 77794    | 49.041   | ug/L   | 99       |
| 8) Chloroethane               | 1.928   | 64    | 91920    | 44.283   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 170144   | 44.947   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581   | 101   | 115450   | 48.320   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.581   | 96    | 110813   | 50.592   | ug/L   | 83       |
| 13) Acetone                   | 2.632   | 43    | 207610   | 73.370   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.793   | 76    | 307728   | 43.854   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.954   | 43    | 167173   | 47.903   | ug/L   | 96       |
| 16) Methylene chloride        | 3.050   | 84    | 142035   | 51.185   | ug/L   | 92       |
| 17) trans-1,2-Dichloroethene  | 3.356   | 96    | 117192   | 50.791   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 3.372   | 73    | 437341   | 57.483   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 241214   | 50.251   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 137550   | 54.100   | ug/L   | 93       |
| 22) 2-Butanone                | 4.706   | 43    | 274574   | 86.699   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.980   | 128   | 65559    | 50.864   | ug/L   | 95       |
| 25) Chloroform                | 5.092   | 83    | 241305   | 50.567   | ug/L   | 98       |

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 Data File : VU045297.D  
 Acq On : 12 Oct 2021 17:25  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

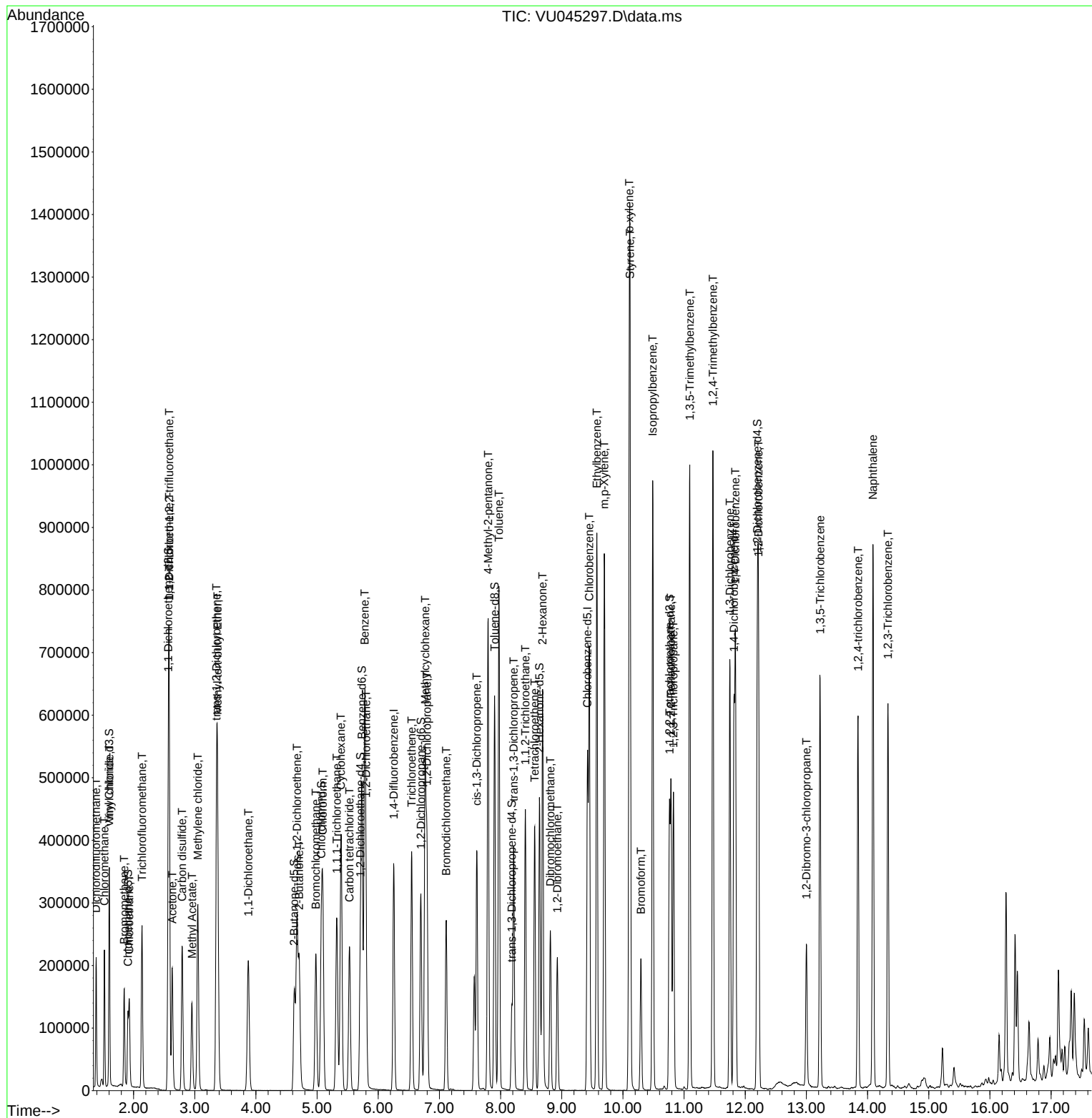
Instrument :  
 MSVOA\_U  
 ClientSampleId :

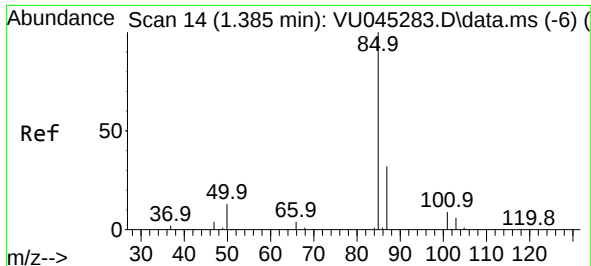
Quant Time: Oct 13 02:55:02 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 13 02:48:52 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 198317   | 49.687  | ug/L  | 98       |
| 29) Cyclohexane               | 5.391  | 56   | 214734   | 51.955  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.320  | 97   | 196276   | 51.566  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.529  | 117  | 149695   | 49.794  | ug/L  | 99       |
| 33) Benzene                   | 5.780  | 78   | 531382   | 52.105  | ug/L  | 100      |
| 34) Trichloroethene           | 6.545  | 95   | 129456   | 52.849  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.767  | 83   | 209561   | 51.100  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.796  | 63   | 141580   | 50.989  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.111  | 83   | 176235   | 51.778  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 217445   | 54.730  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 472082   | 101.776 | ug/L  | 96       |
| 42) Toluene                   | 7.973  | 91   | 565824   | 54.605  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 208551   | 55.204  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 134041   | 53.267  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.558  | 164  | 90685    | 51.795  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.687  | 43   | 390099   | 94.840  | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.815  | 129  | 127515   | 51.238  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 142324   | 54.020  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 345367   | 53.988  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.574  | 91   | 617492   | 56.410  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.696  | 106  | 237182   | 57.197  | ug/L  | 98       |
| 54) o-xylene                  | 10.105 | 106  | 234936   | 57.655  | ug/L  | 99       |
| 55) Styrene                   | 10.118 | 104  | 404787   | 57.764  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.786 | 83   | 239136   | 49.632  | ug/L  | 99       |
| 59) Bromoform                 | 10.295 | 173  | 88489    | 51.414  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.825 | 75   | 195816   | 51.017  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.487 | 105  | 611235   | 60.184  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 524811   | 61.876  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 540719   | 62.256  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.748 | 146  | 262970   | 56.029  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 261916   | 54.390  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.217 | 146  | 264020   | 54.796  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 58076    | 52.651  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 185946   | 57.087  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 168792   | 62.361  | ug/L  | 99       |
| 71) Naphthalene               | 14.089 | 128  | 659301   | 70.291  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 169836   | 61.327  | ug/L  | 99       |

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

Quant Time: Oct 13 02:55:02 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 13 02:48:52 2021  
Response via : Initial Calibration

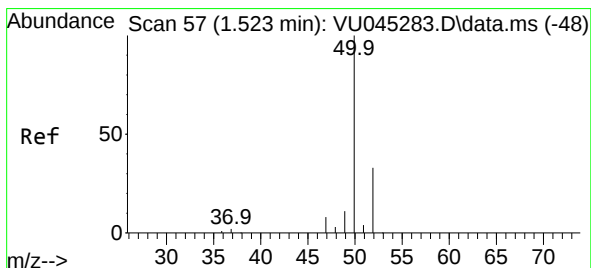
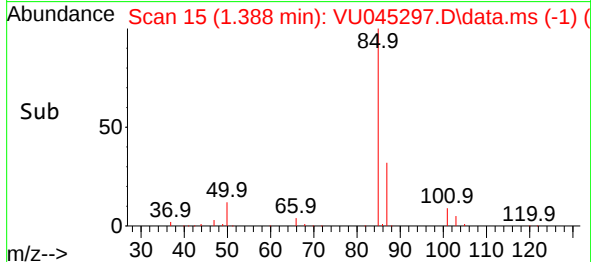
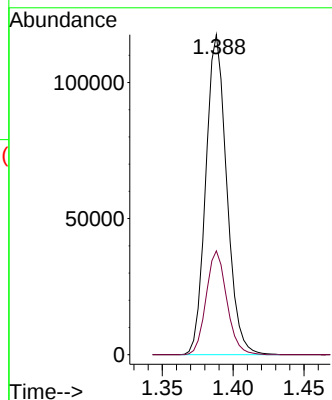
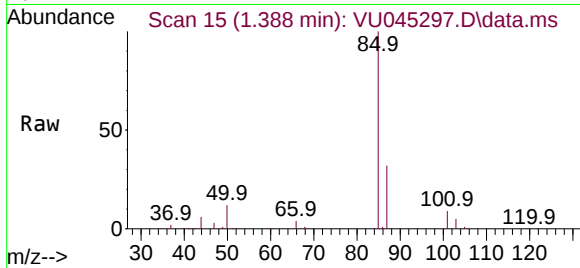




#2  
Dichlorodifluoromethane  
Concen: 44.580 ug/L  
RT: 1.388 min Scan# 15  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

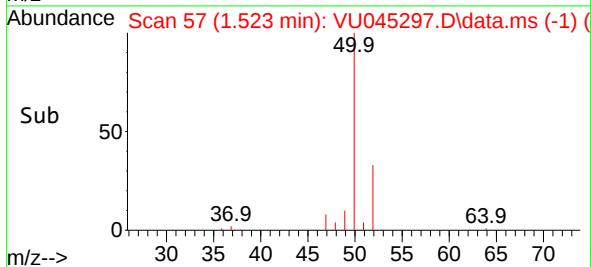
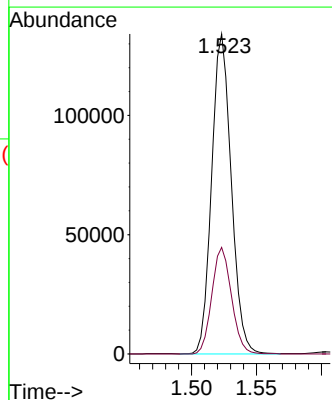
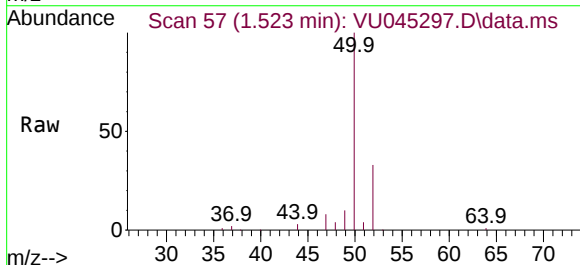
Instrument :  
MSVOA\_U  
ClientSampled :

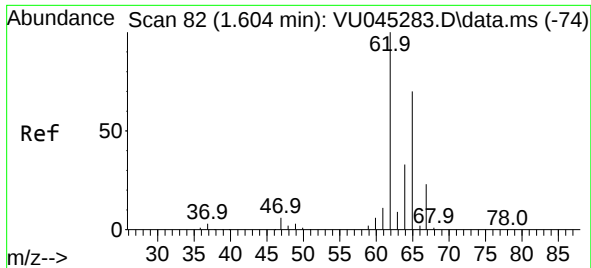
Tgt Ion: 85 Resp: 120734  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.2 37.8



#3  
Chloromethane  
Concen: 41.671 ug/L  
RT: 1.523 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 50 Resp: 140670  
Ion Ratio Lower Upper  
50 100  
52 33.3 23.0 42.8

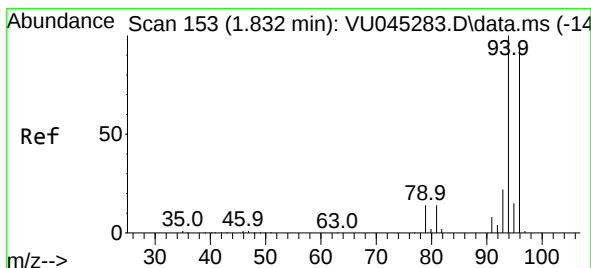
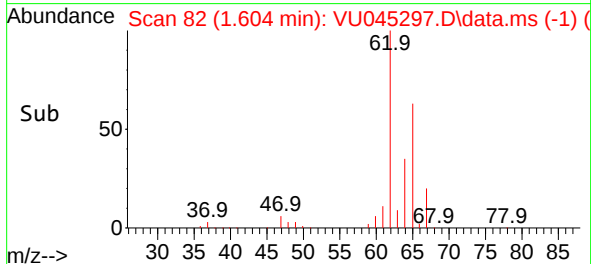
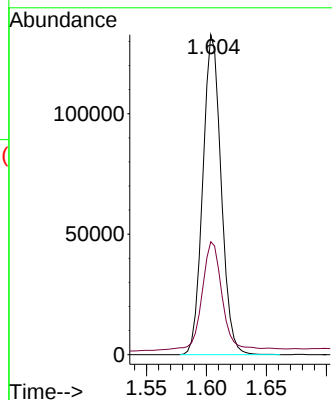
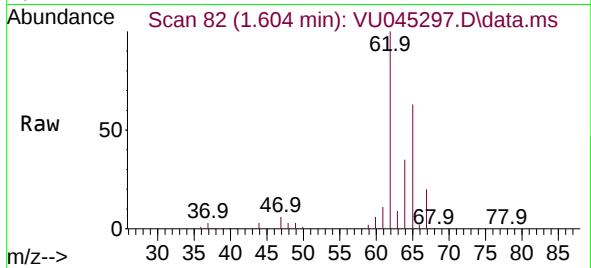




#5  
 Vinyl chloride  
 Concen: 42.743 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. -0.000 min  
 Lab File: VU045297.D  
 Acq: 12 Oct 2021 17:25

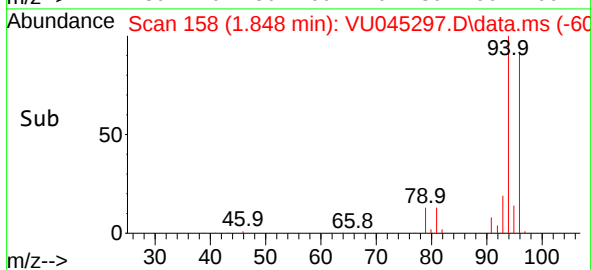
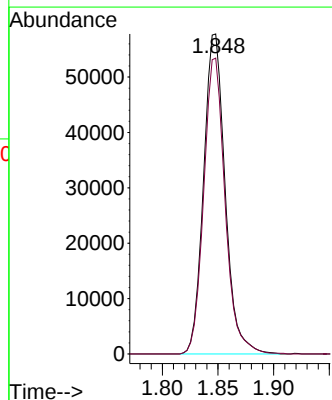
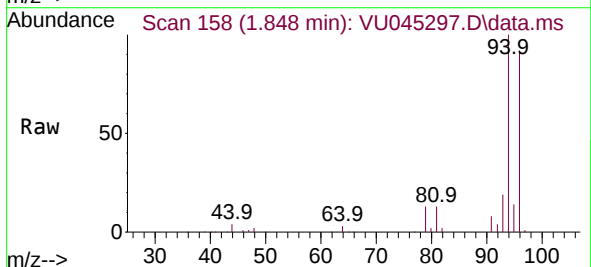
Instrument :  
 MSVOA\_U  
 ClientSampled :

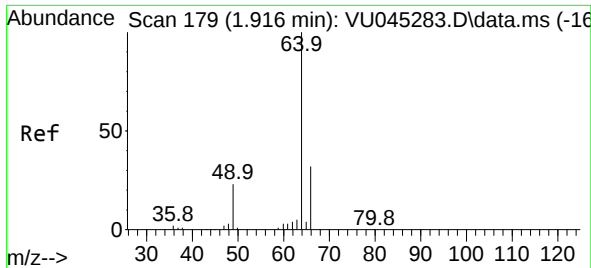
Tgt Ion: 62 Resp: 141365  
 Ion Ratio Lower Upper  
 62 100  
 64 35.3 23.4 43.6



#6  
 Bromomethane  
 Concen: 49.041 ug/L  
 RT: 1.848 min Scan# 158  
 Delta R.T. 0.016 min  
 Lab File: VU045297.D  
 Acq: 12 Oct 2021 17:25

Tgt Ion: 94 Resp: 77794  
 Ion Ratio Lower Upper  
 94 100  
 96 92.5 65.7 121.9

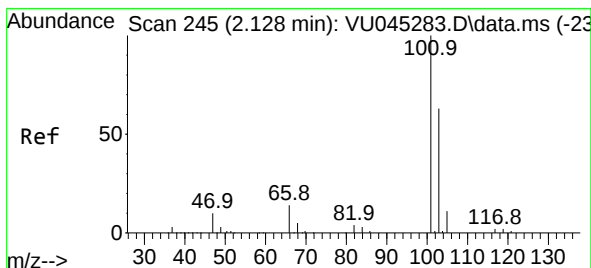
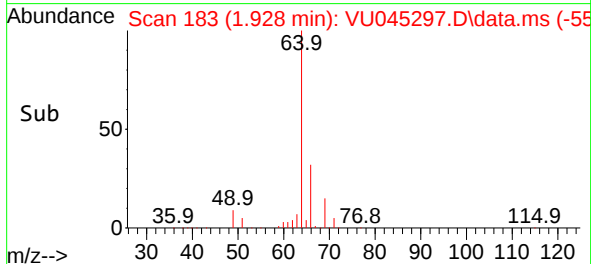
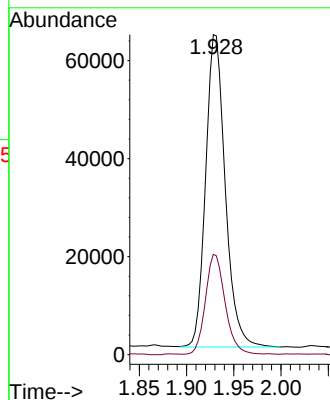
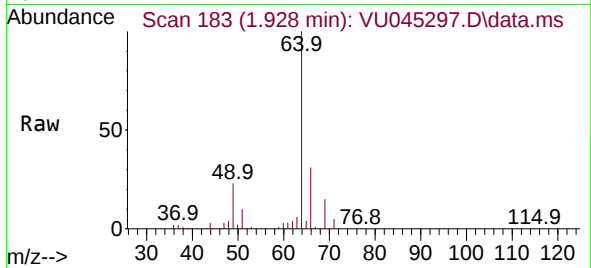




#8  
Chloroethane  
Concen: 44.283 ug/L  
RT: 1.928 min Scan# 183  
Delta R.T. 0.013 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

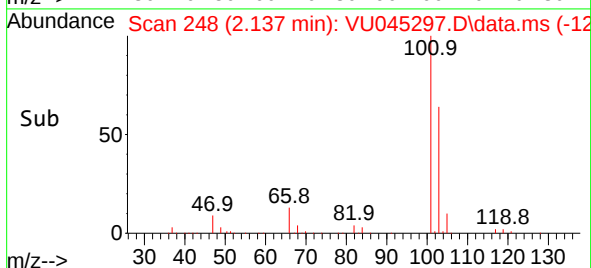
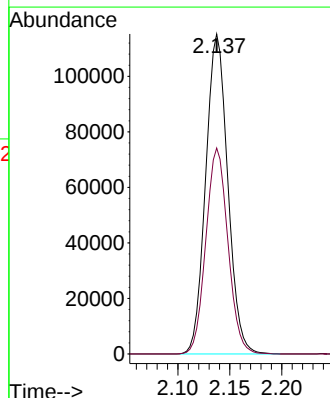
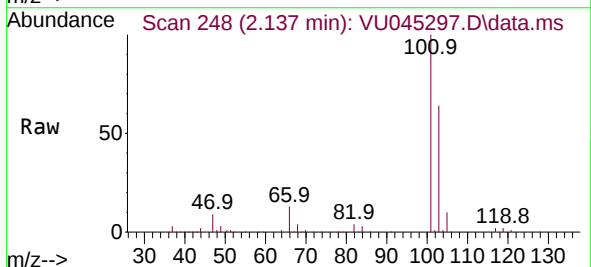
Instrument :  
MSVOA\_U  
ClientSampleId :

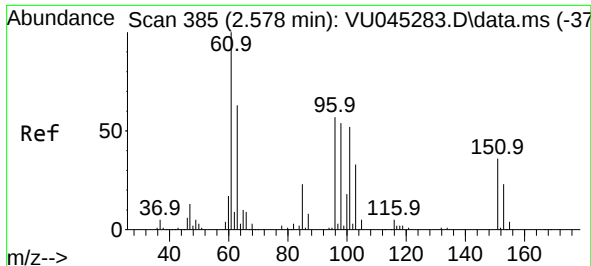
Tgt Ion: 64 Resp: 91920  
Ion Ratio Lower Upper  
64 100  
66 31.4 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 44.947 ug/L  
RT: 2.137 min Scan# 248  
Delta R.T. 0.010 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion:101 Resp: 170144  
Ion Ratio Lower Upper  
101 100  
103 64.3 50.9 76.3





#10

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

Concen: 48.320 ug/L

RT: 2.581 min Scan# 386

Delta R.T. 0.003 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Tgt Ion:101 Resp: 115450

Ion Ratio Lower Upper

101 100

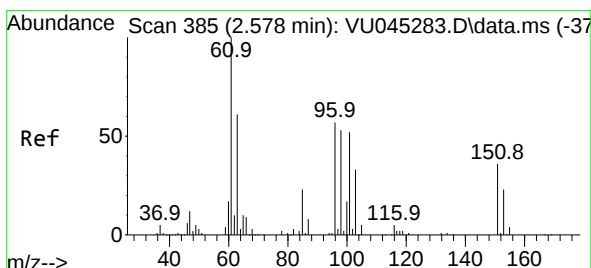
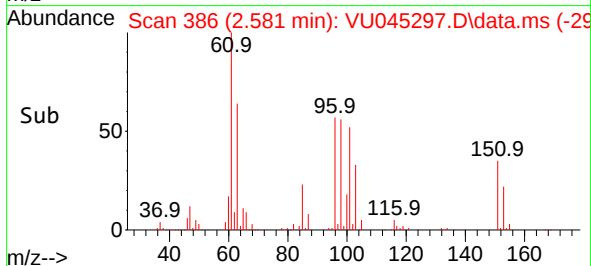
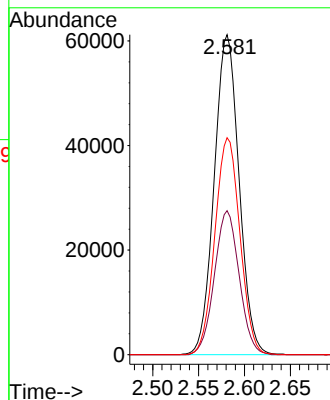
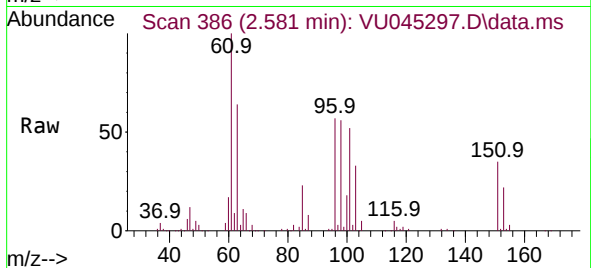
85 44.8 36.4 54.6

151 68.3 54.4 81.6

Instrument :

MSVOA\_U

ClientSampleId :



#12

1,1-Dichloroethene

Concen: 50.592 ug/L

RT: 2.581 min Scan# 386

Delta R.T. 0.003 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

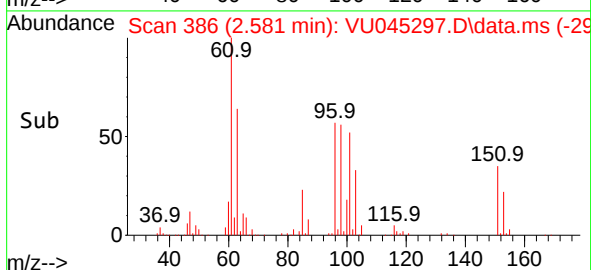
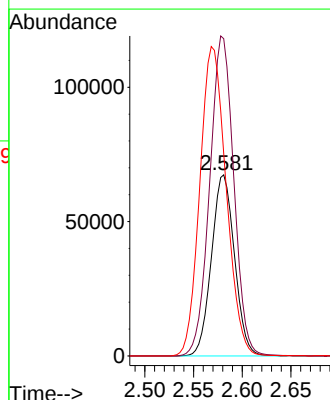
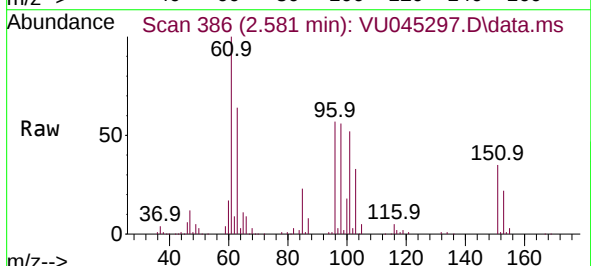
Tgt Ion: 96 Resp: 110813

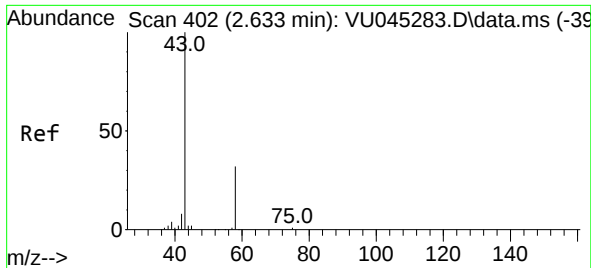
Ion Ratio Lower Upper

96 100

61 175.2 131.3 243.9

63 111.8 102.5 190.3

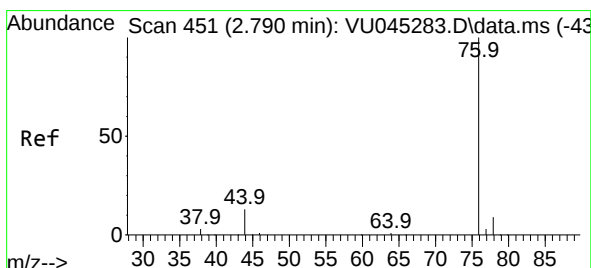
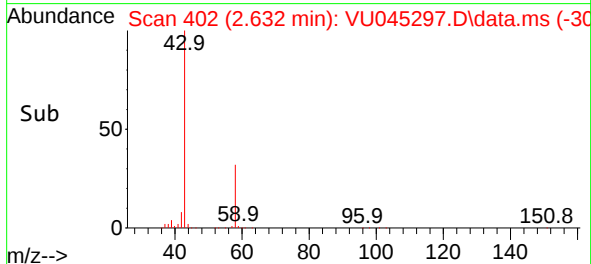
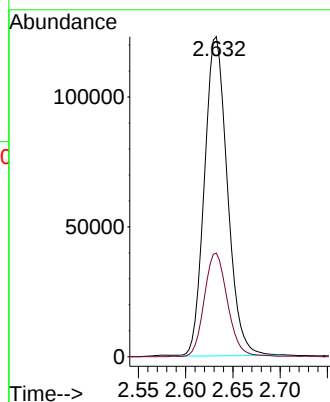
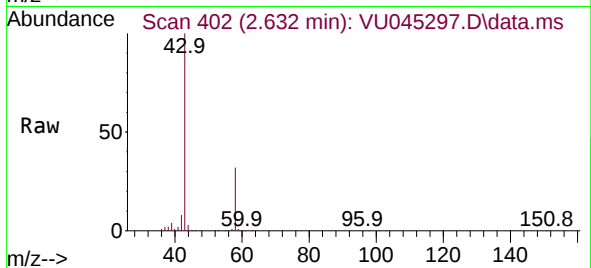




#13  
Acetone  
Concen: 73.370 ug/L  
RT: 2.632 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

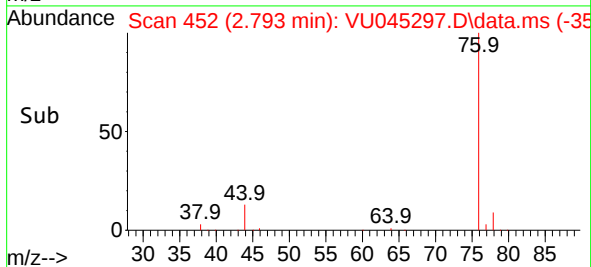
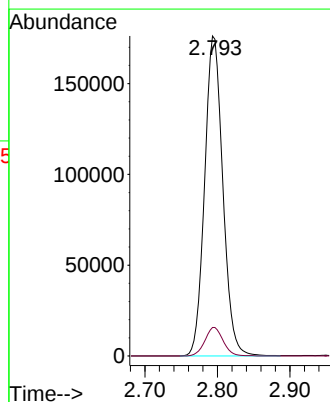
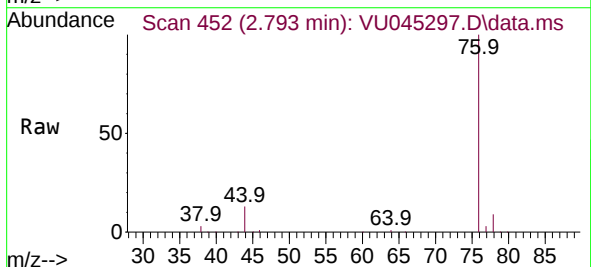
Instrument :  
MSVOA\_U  
ClientSampled :

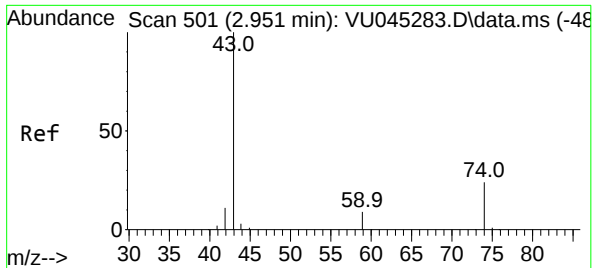
Tgt Ion: 43 Resp: 207610  
Ion Ratio Lower Upper  
43 100  
58 32.7 0.0 62.8



#14  
Carbon disulfide  
Concen: 43.854 ug/L  
RT: 2.793 min Scan# 452  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 76 Resp: 307728  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.3 10.9

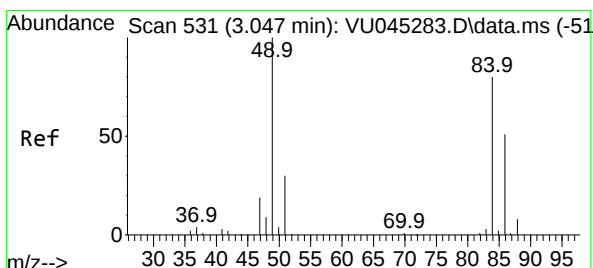
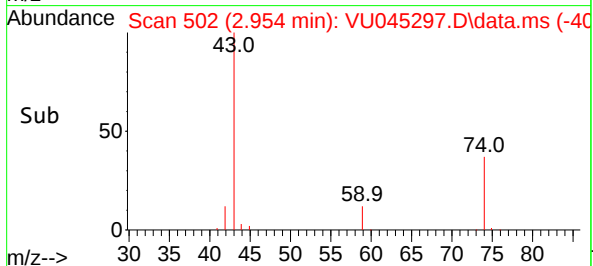
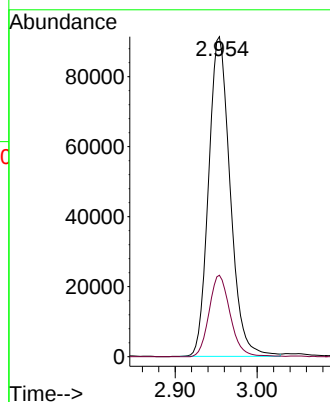
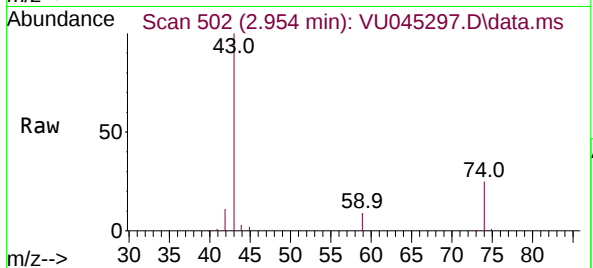




#15  
Methyl Acetate  
Concen: 47.903 ug/L  
RT: 2.954 min Scan# 502  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

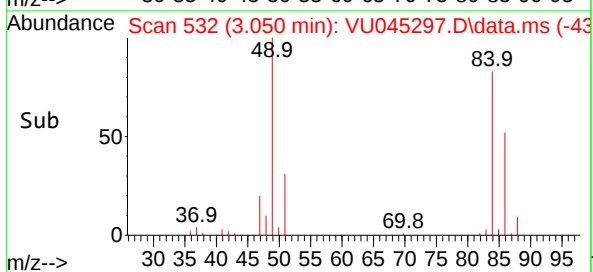
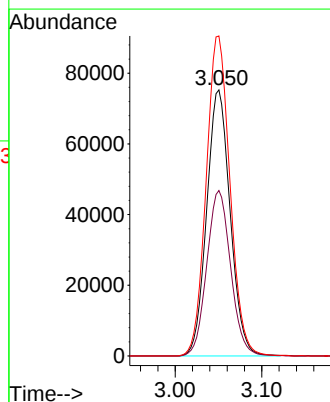
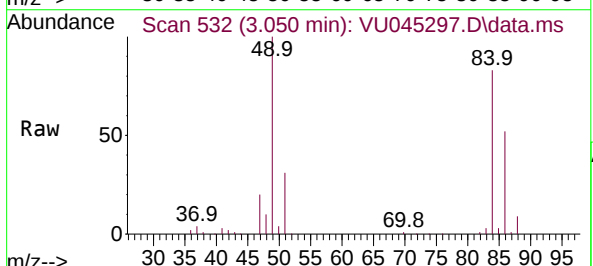
Instrument :  
MSVOA\_U  
ClientSampled :

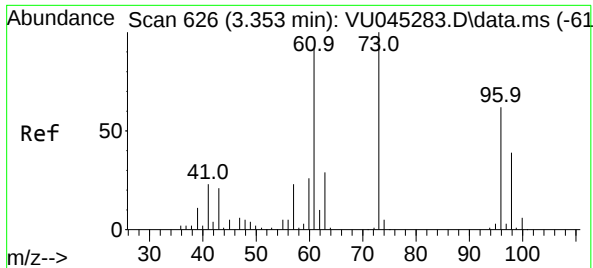
Tgt Ion: 43 Resp: 167173  
Ion Ratio Lower Upper  
43 100  
74 25.0 18.4 27.6



#16  
Methylene chloride  
Concen: 51.185 ug/L  
RT: 3.050 min Scan# 532  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 84 Resp: 142035  
Ion Ratio Lower Upper  
84 100  
86 62.2 44.7 83.1  
49 120.3 92.9 172.5

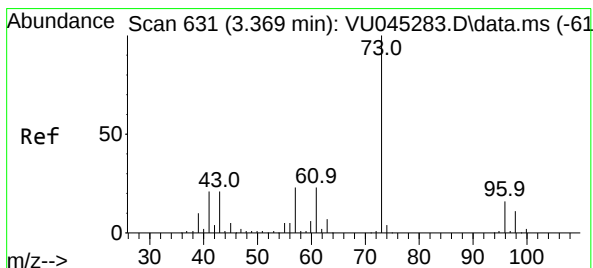
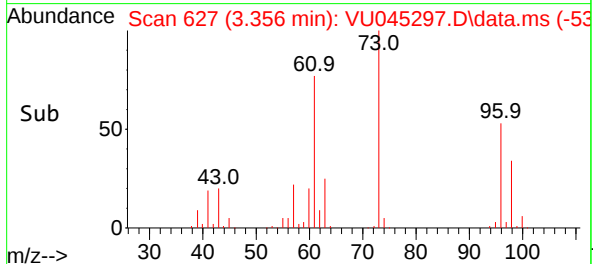
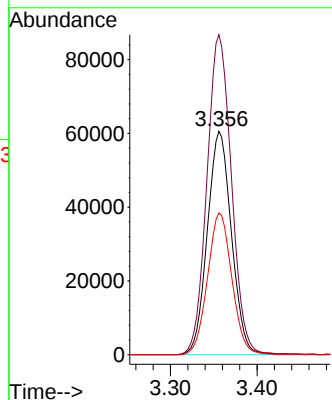
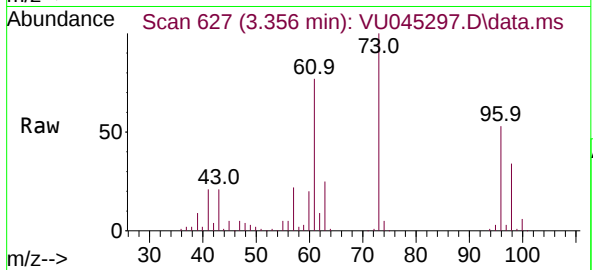




#17  
trans-1,2-Dichloroethene  
Concen: 50.791 ug/L  
RT: 3.356 min Scan# 627  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

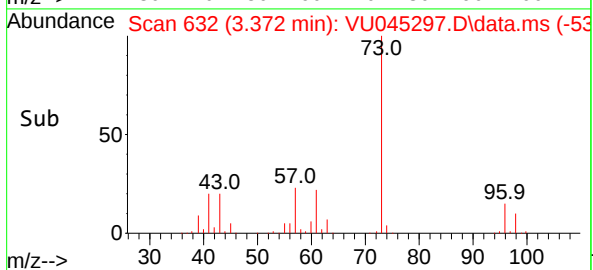
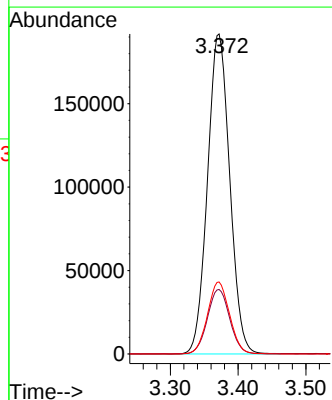
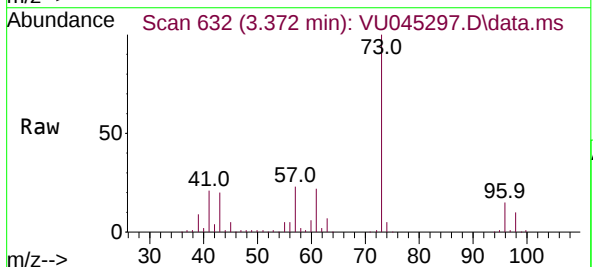
Instrument :  
MSVOA\_U  
ClientSampleId :

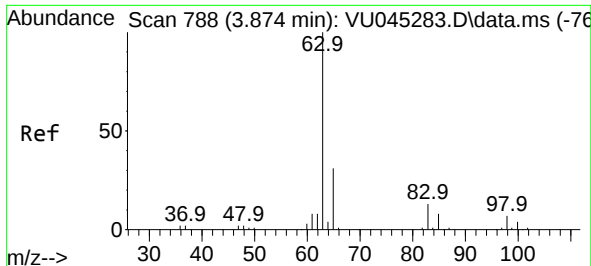
Tgt Ion: 96 Resp: 117192  
Ion Ratio Lower Upper  
96 100  
61 143.2 105.1 195.3  
98 63.4 43.0 79.8



#18  
Methyl tert-butyl Ether  
Concen: 57.483 ug/L  
RT: 3.372 min Scan# 632  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 73 Resp: 437341  
Ion Ratio Lower Upper  
73 100  
43 20.3 17.3 25.9  
57 22.3 18.7 28.1





#19

1,1-Dichloroethane

Concen: 50.251 ug/L

RT: 3.877 min Scan# 789

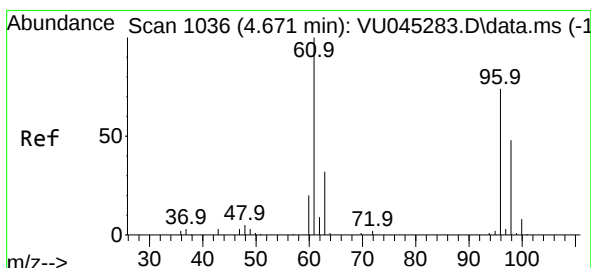
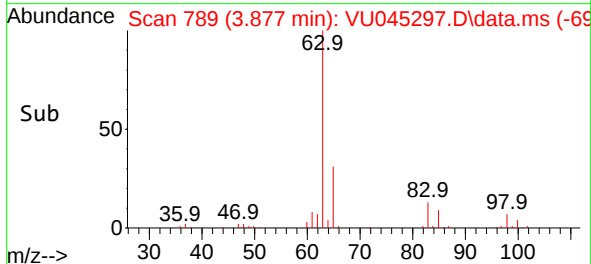
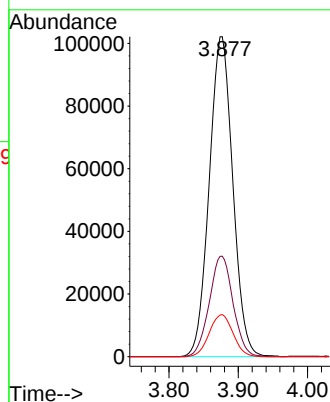
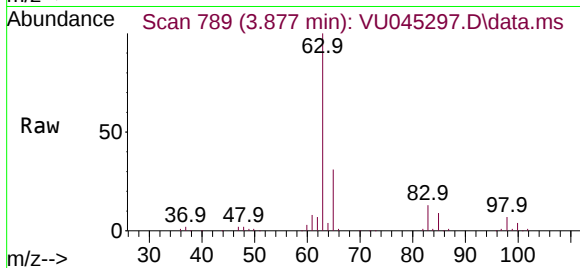
Delta R.T. 0.003 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Tgt Ion: 63 Resp: 241214

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.4  | 22.0  | 40.8  |
| 83  | 13.1  | 9.0   | 16.6  |



#20

cis-1,2-Dichloroethene

Concen: 54.100 ug/L

RT: 4.671 min Scan# 1036

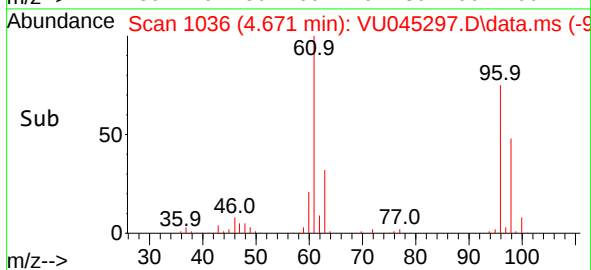
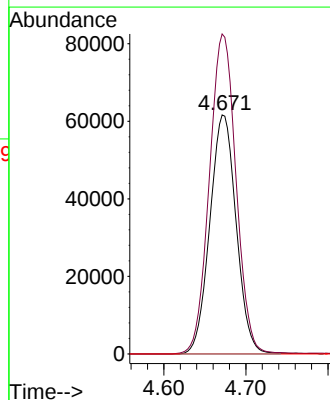
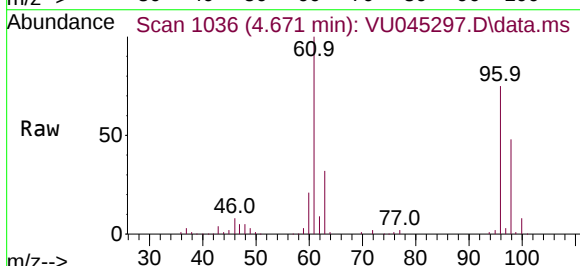
Delta R.T. -0.000 min

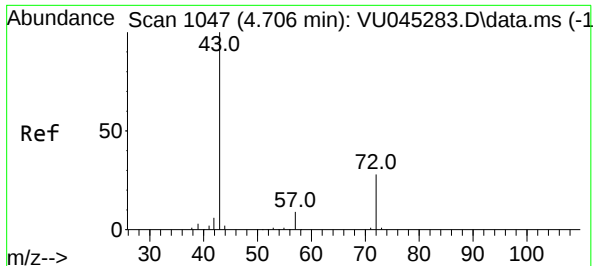
Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Tgt Ion: 96 Resp: 137550

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 133.9 | 100.2 | 186.0 |
| 68  | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 86.699 ug/L

RT: 4.706 min Scan# 1047

Delta R.T. -0.000 min

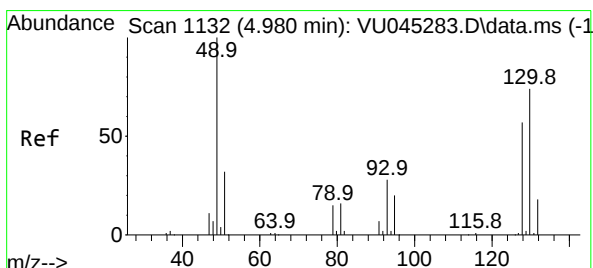
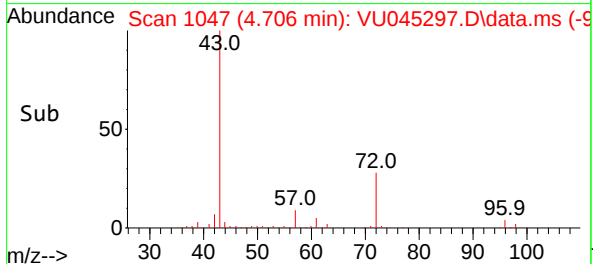
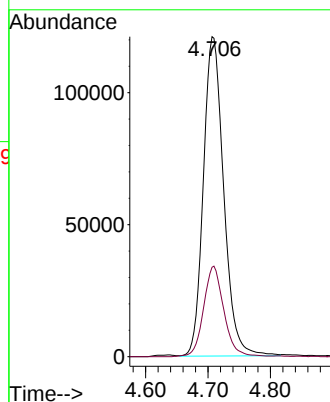
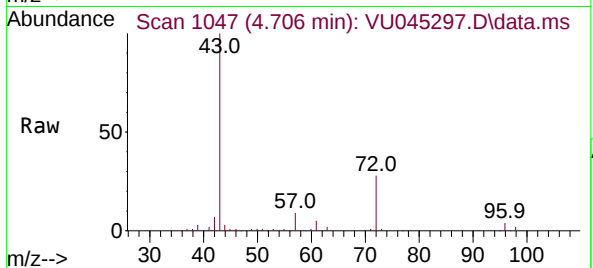
Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Tgt Ion: 43 Resp: 274574

Ion Ratio Lower Upper

|    |      |      |      |
|----|------|------|------|
| 43 | 100  |      |      |
| 72 | 28.3 | 13.3 | 39.9 |



#23

Bromochloromethane

Concen: 50.864 ug/L

RT: 4.980 min Scan# 1132

Delta R.T. -0.000 min

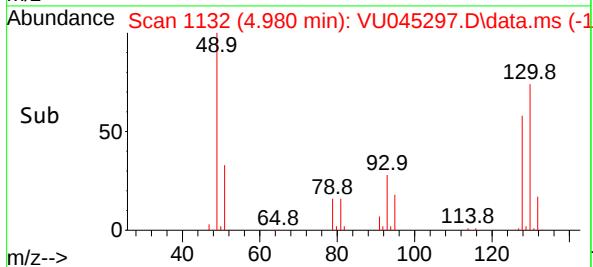
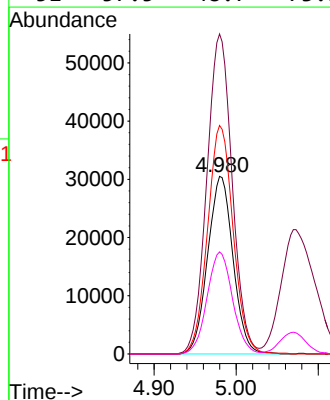
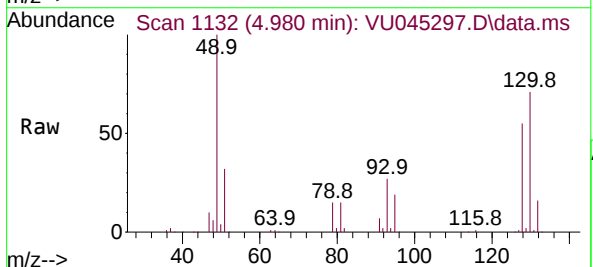
Lab File: VU045297.D

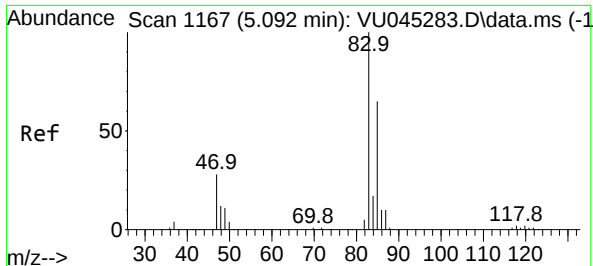
Acq: 12 Oct 2021 17:25

Tgt Ion: 128 Resp: 65559

Ion Ratio Lower Upper

|     |       |       |       |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 180.2 | 132.9 | 246.7 |
| 130 | 128.6 | 88.2  | 163.8 |
| 51  | 57.5  | 48.7  | 73.1  |

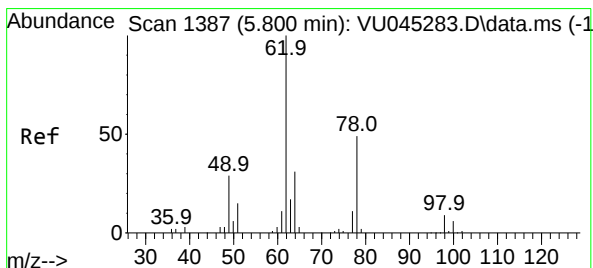
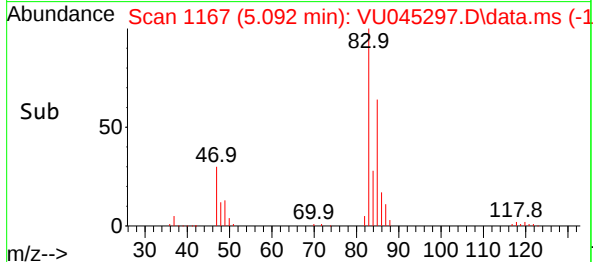
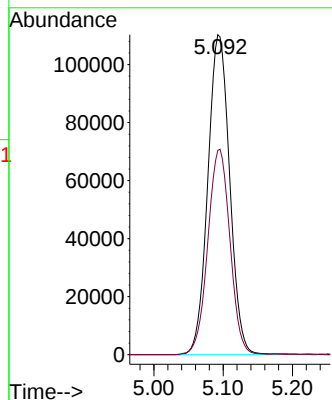
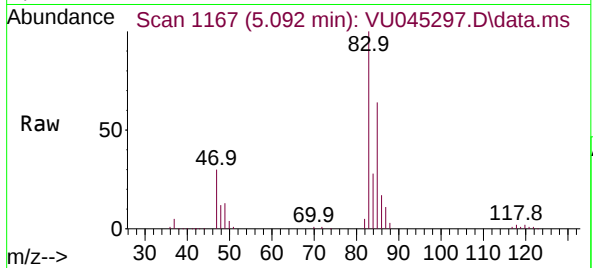




#25  
Chloroform  
Concen: 50.567 ug/L  
RT: 5.092 min Scan# 1167  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

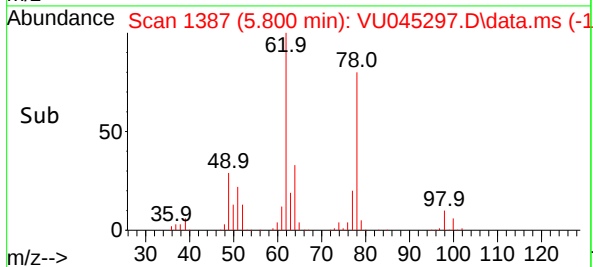
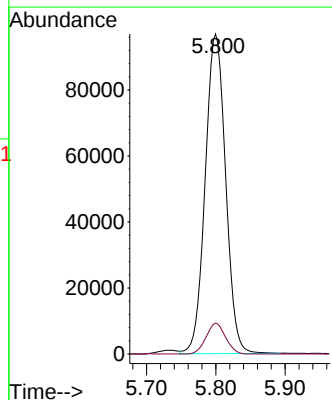
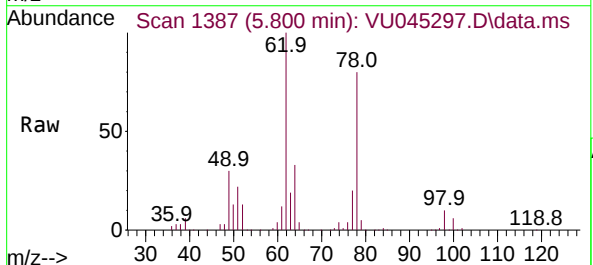
Instrument :  
MSVOA\_U  
ClientSampled :

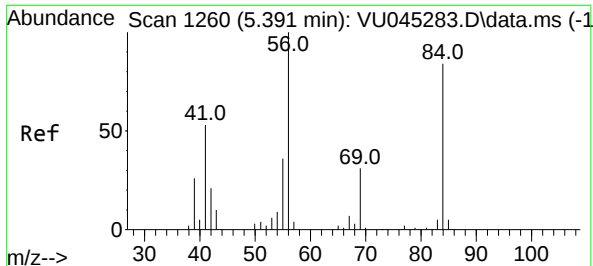
Tgt Ion: 83 Resp: 241305  
Ion Ratio Lower Upper  
83 100  
85 63.9 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 49.687 ug/L  
RT: 5.800 min Scan# 1387  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 62 Resp: 198317  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.1 10.7





#29

Cyclohexane

Concen: 51.955 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. -0.000 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

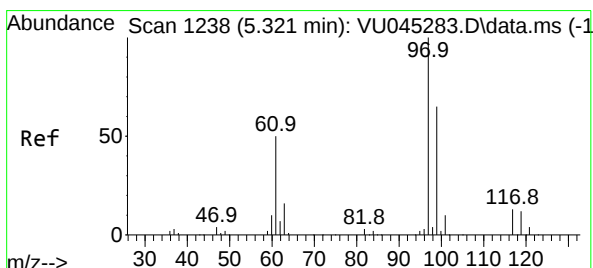
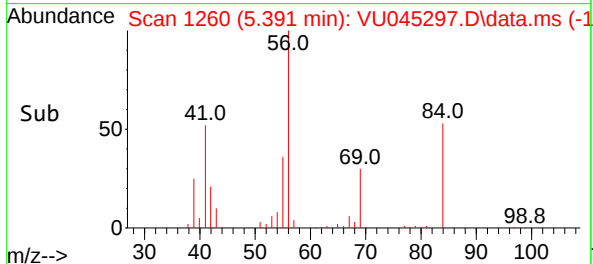
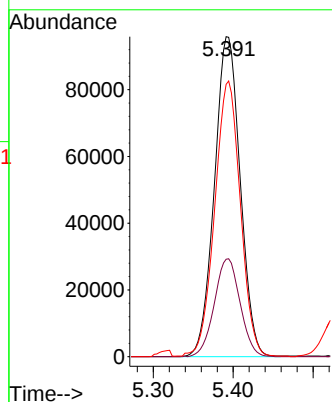
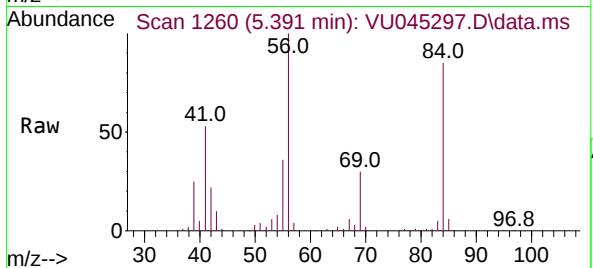
Tgt Ion: 56 Resp: 214734

Ion Ratio Lower Upper

56 100

69 30.5 23.8 35.8

84 85.2 66.8 100.2



#30

1,1,1-Trichloroethane

Concen: 51.566 ug/L

RT: 5.320 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

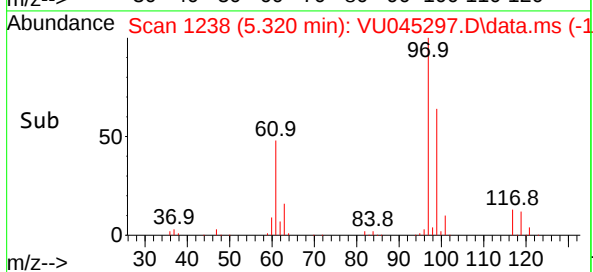
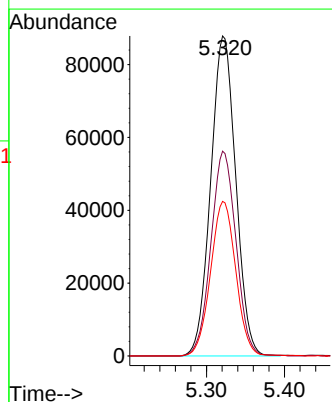
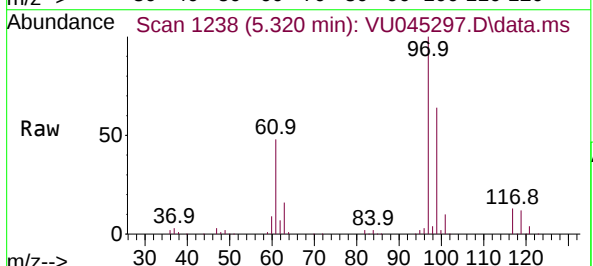
Tgt Ion: 97 Resp: 196276

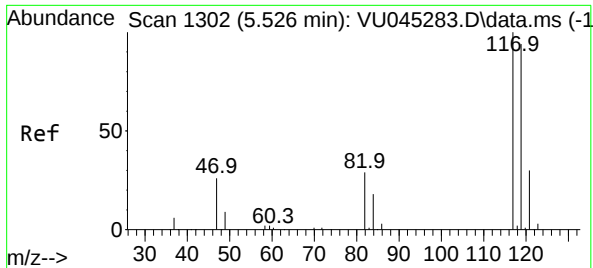
Ion Ratio Lower Upper

97 100

99 64.0 50.6 75.8

61 48.5 41.3 61.9

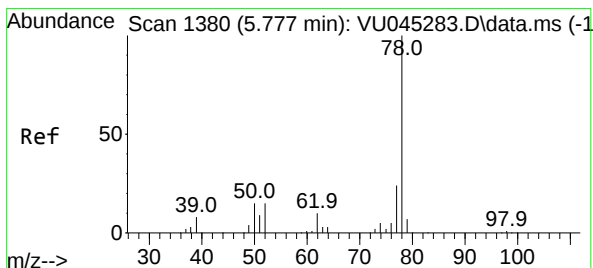
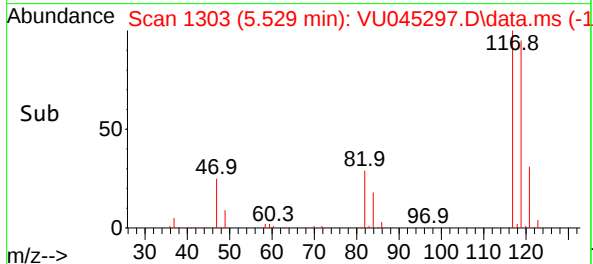
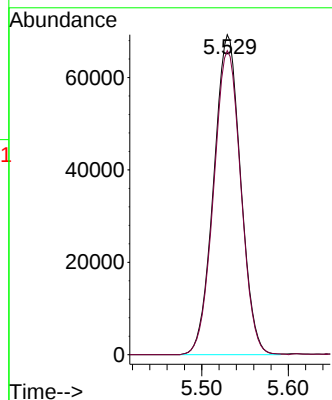
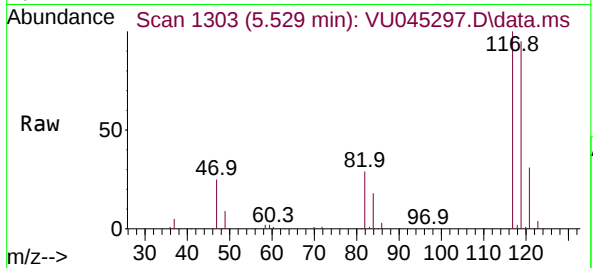




#31  
Carbon tetrachloride  
Concen: 49.794 ug/L  
RT: 5.529 min Scan# 1303  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

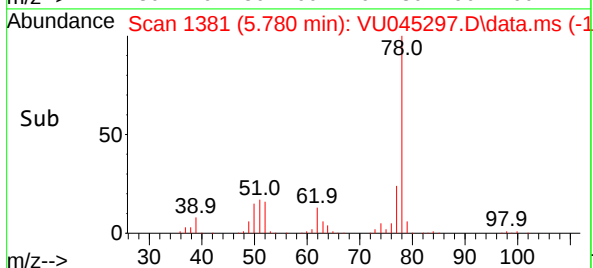
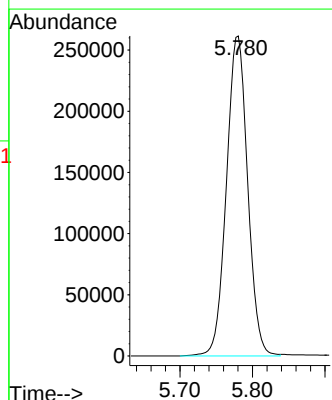
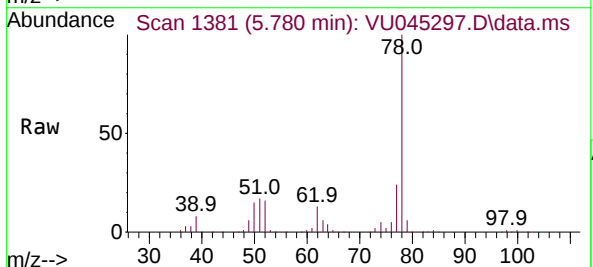
Instrument :  
MSVOA\_U  
ClientSampled :

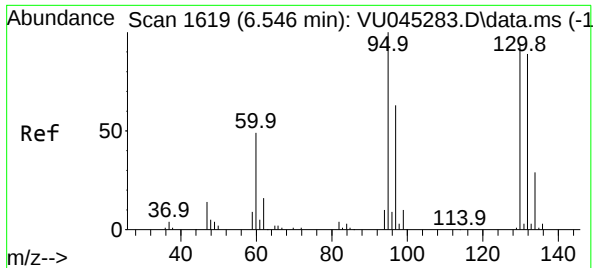
Tgt Ion:117 Resp: 149695  
Ion Ratio Lower Upper  
117 100  
119 95.9 77.7 116.5



#33  
Benzene  
Concen: 52.105 ug/L  
RT: 5.780 min Scan# 1381  
Delta R.T. 0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 78 Resp: 531382





#34

Trichloroethene

Concen: 52.849 ug/L

RT: 6.545 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Tgt Ion: 95 Resp: 129456

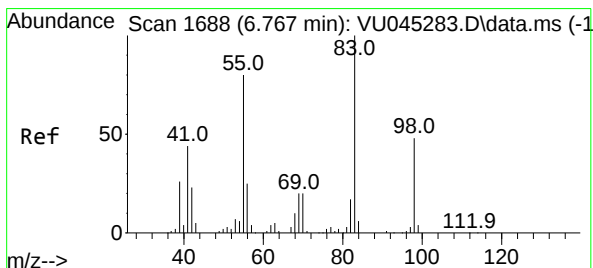
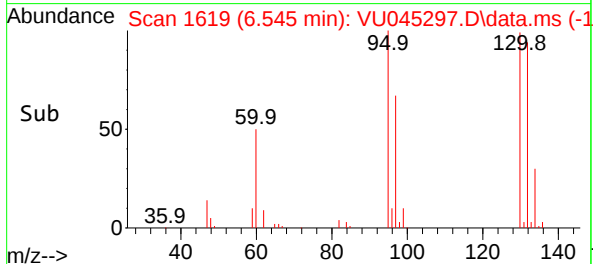
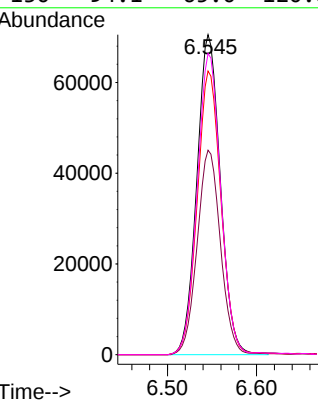
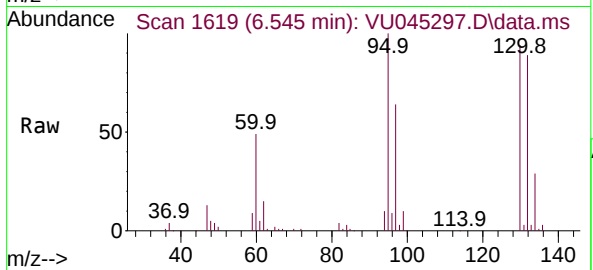
Ion Ratio Lower Upper

95 100

97 63.9 44.4 82.4

132 88.7 62.9 116.9

130 94.1 65.0 120.8



#35

Methylcyclohexane

Concen: 51.100 ug/L

RT: 6.767 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

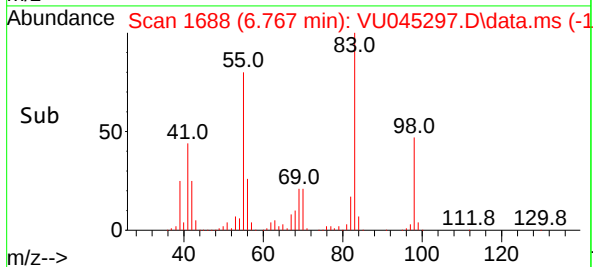
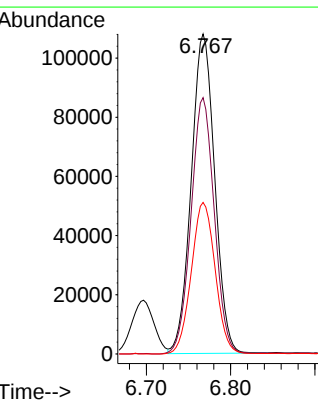
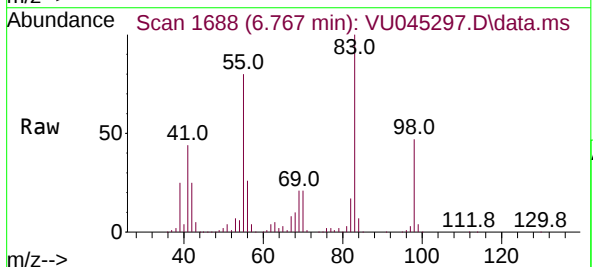
Tgt Ion: 83 Resp: 209561

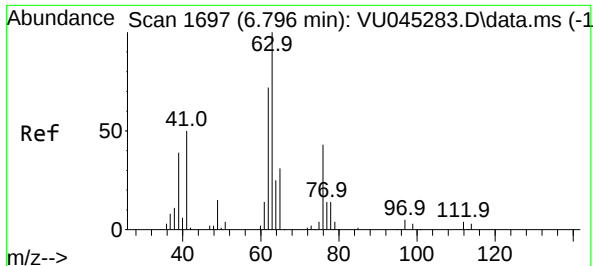
Ion Ratio Lower Upper

83 100

55 79.6 65.8 98.6

98 48.2 37.1 55.7



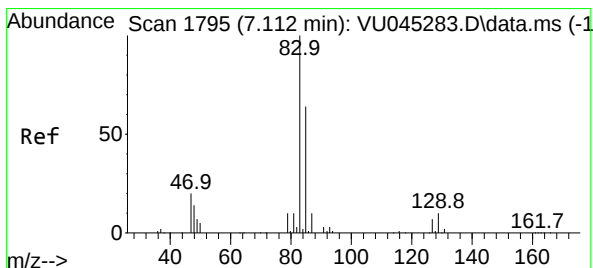
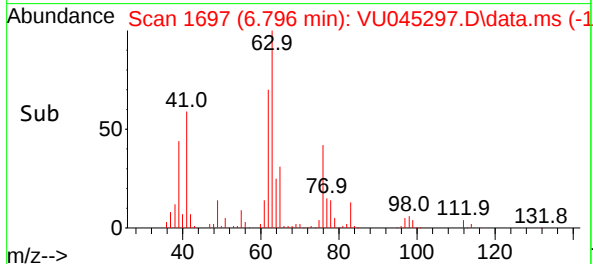
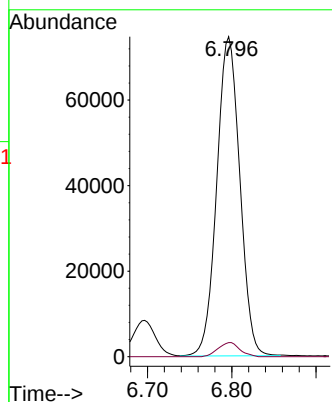
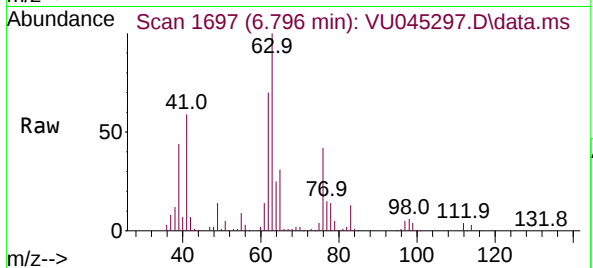


#37

1,2-Dichloropropane  
Concen: 50.989 ug/L  
RT: 6.796 min Scan# 1697  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Instrument :  
MSVOA\_U  
ClientSampled :

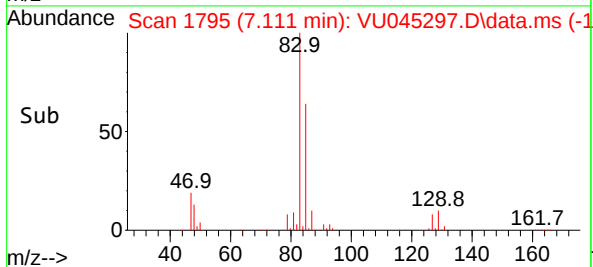
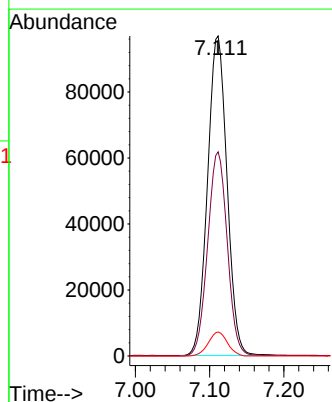
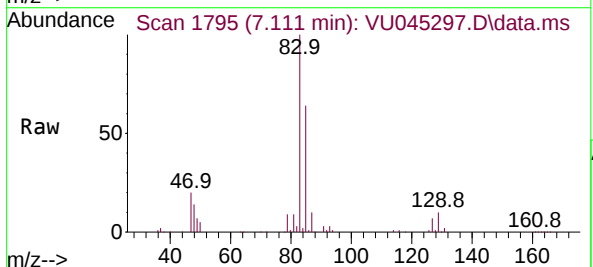
Tgt Ion: 63 Resp: 141580  
Ion Ratio Lower Upper  
63 100  
112 4.2 3.2 4.8

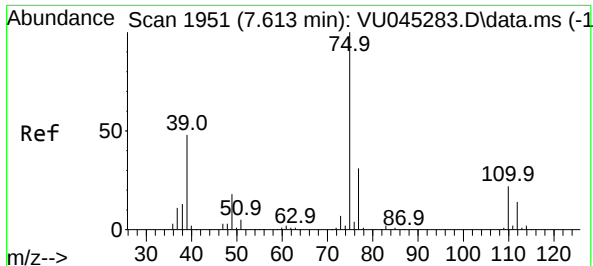


#38

Bromodichloromethane  
Concen: 51.778 ug/L  
RT: 7.111 min Scan# 1795  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 83 Resp: 176235  
Ion Ratio Lower Upper  
83 100  
85 63.8 44.6 82.8  
127 7.5 6.2 9.2

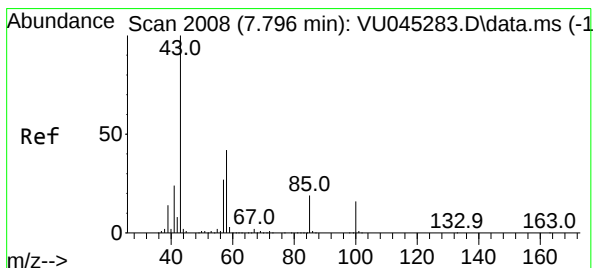
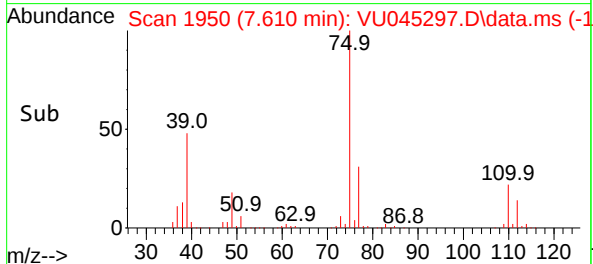
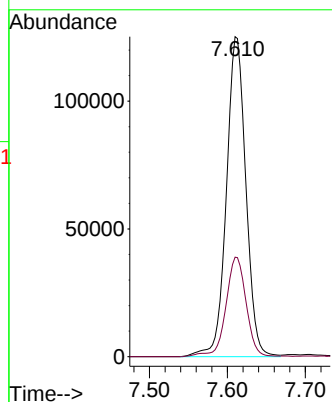
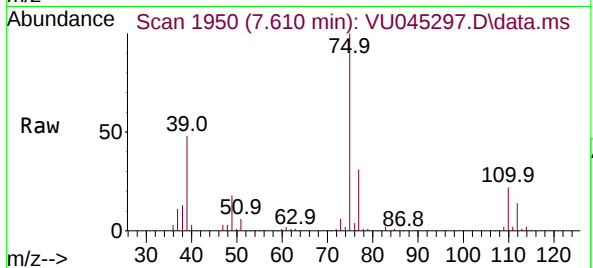




#39  
cis-1,3-Dichloropropene  
Concen: 54.730 ug/L  
RT: 7.610 min Scan# 1950  
Delta R.T. -0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

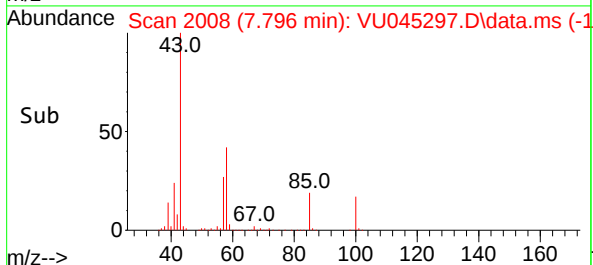
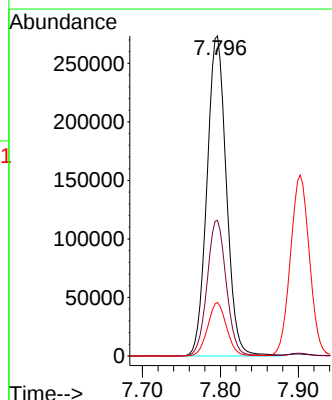
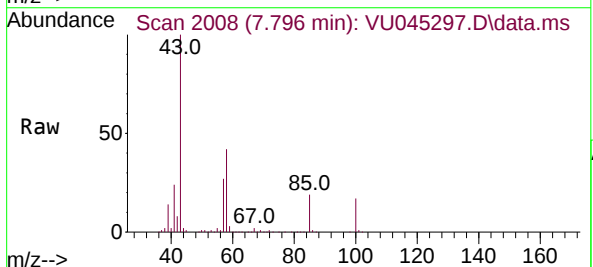
Instrument :  
MSVOA\_U  
ClientSampled :

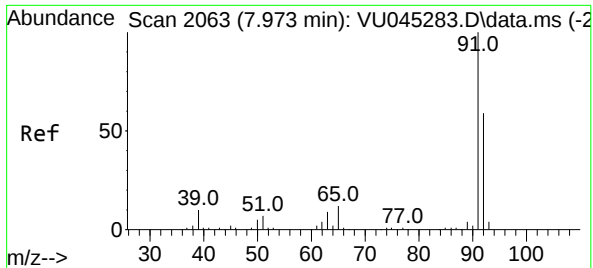
Tgt Ion: 75 Resp: 217445  
Ion Ratio Lower Upper  
75 100  
77 31.1 22.4 41.6



#40  
4-Methyl-2-pentanone  
Concen: 101.776 ug/L  
RT: 7.796 min Scan# 2008  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 43 Resp: 472082  
Ion Ratio Lower Upper  
43 100  
58 42.0 31.8 47.8  
100 16.3 11.8 17.6

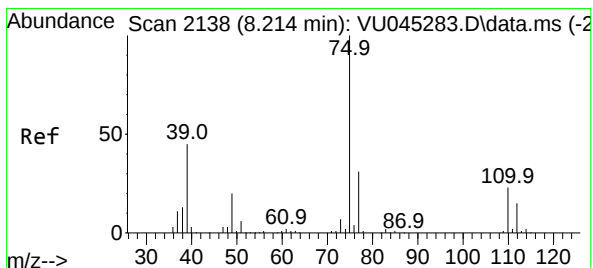
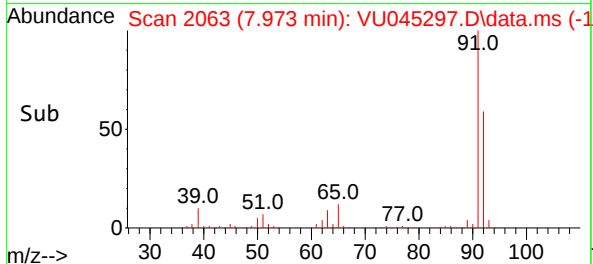
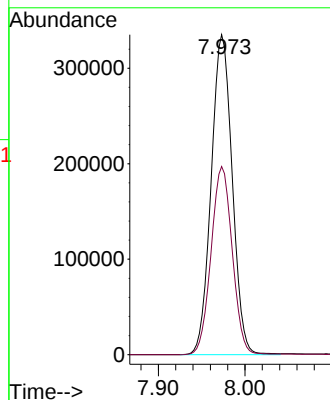
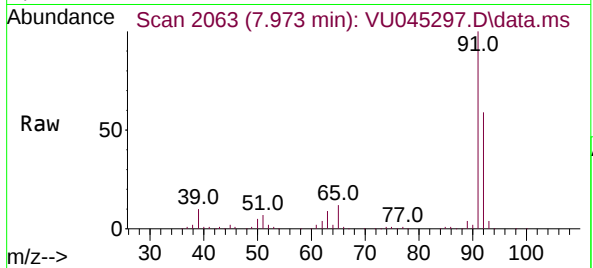




#42  
Toluene  
Concen: 54.605 ug/L  
RT: 7.973 min Scan# 2063  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

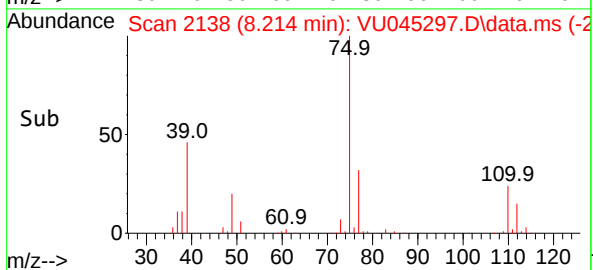
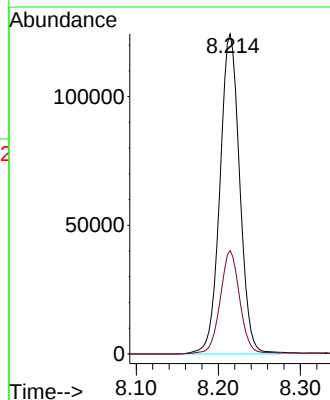
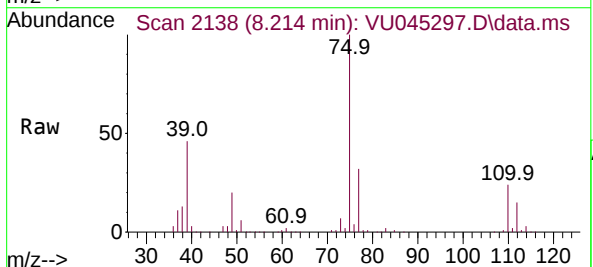
Instrument :  
MSVOA\_U  
ClientSampled :

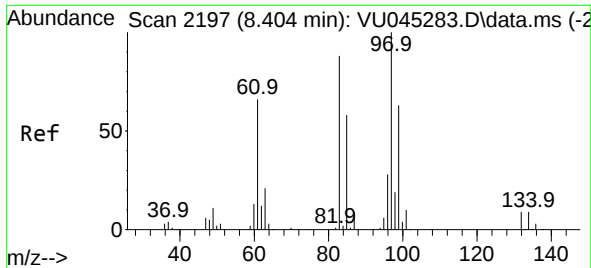
Tgt Ion: 91 Resp: 565824  
Ion Ratio Lower Upper  
91 100  
92 58.8 40.5 75.1



#44  
trans-1,3-Dichloropropene  
Concen: 55.204 ug/L  
RT: 8.214 min Scan# 2138  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 75 Resp: 208551  
Ion Ratio Lower Upper  
75 100  
77 32.3 21.7 40.3



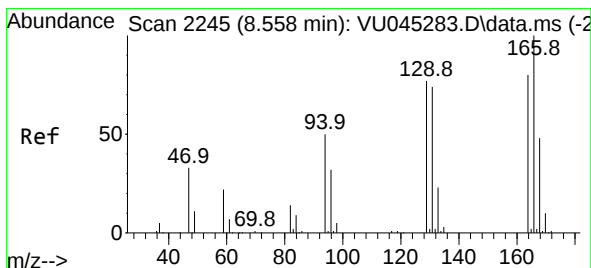
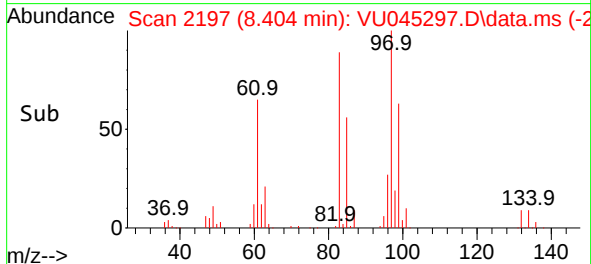
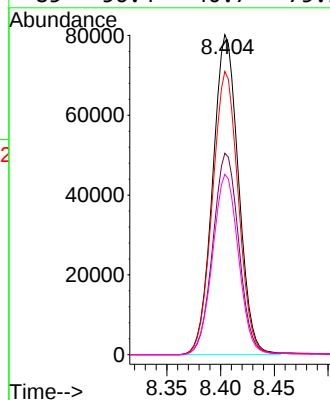
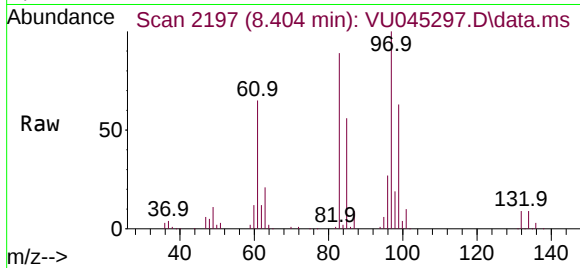


#45  
1,1,2-Trichloroethane  
Concen: 53.267 ug/L  
RT: 8.404 min Scan# 2197  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 97 Resp: 134041

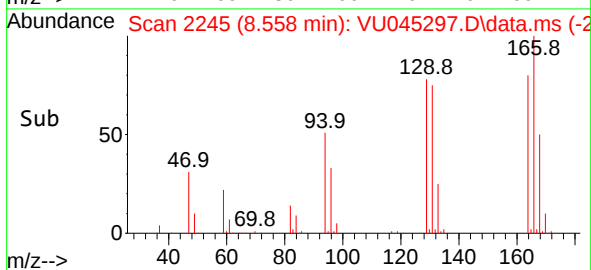
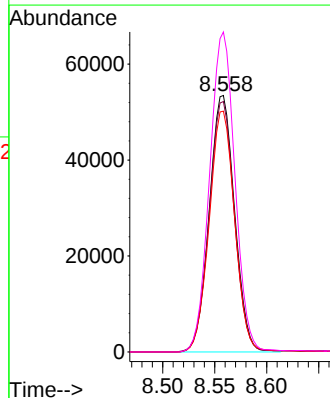
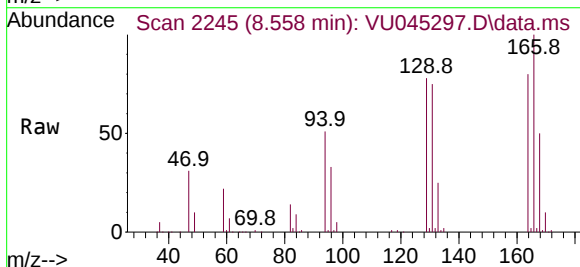
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.9  | 43.7  | 81.1  |
| 83  | 88.5  | 61.9  | 115.1 |
| 85  | 56.4  | 40.7  | 75.5  |

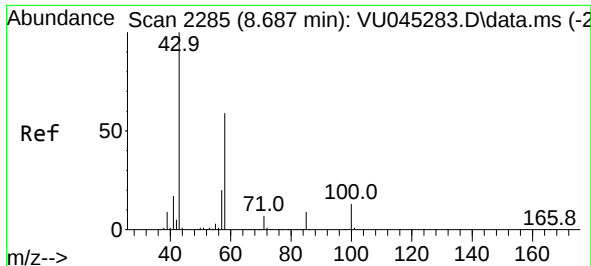


#46  
Tetrachloroethene  
Concen: 51.795 ug/L  
RT: 8.558 min Scan# 2245  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 164 Resp: 90685

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 97.7  | 69.8  | 129.6 |
| 131 | 93.9  | 66.4  | 123.2 |
| 166 | 124.8 | 91.1  | 169.3 |

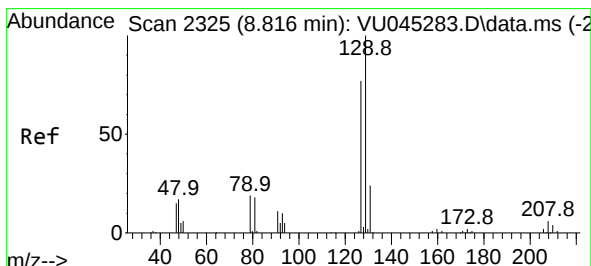
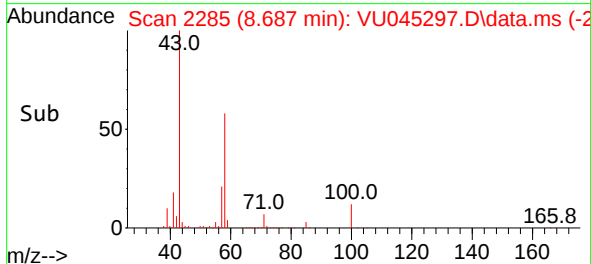
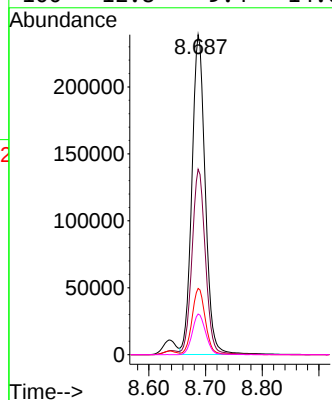
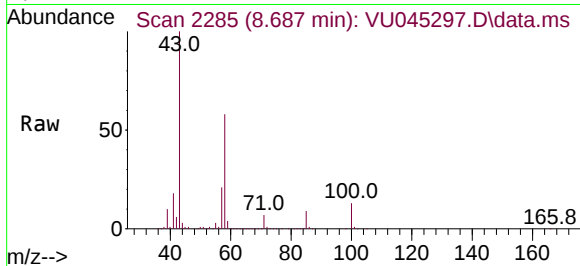




#48  
2-Hexanone  
Concen: 94.840 ug/L  
RT: 8.687 min Scan# 2285  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

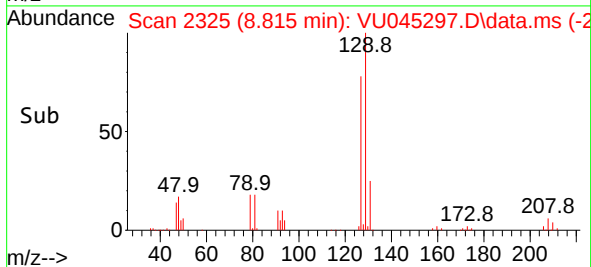
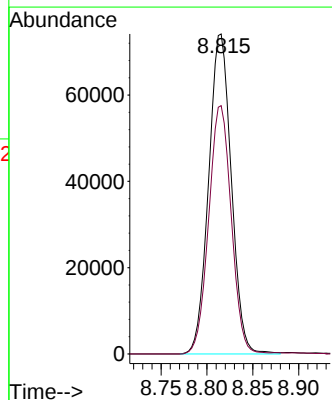
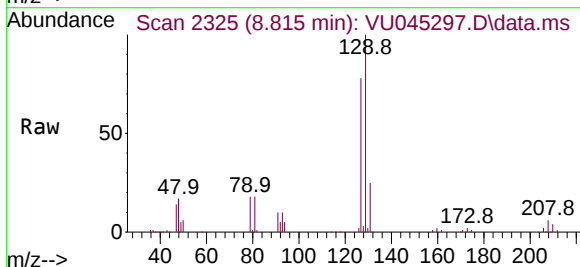
Instrument :  
MSVOA\_U  
ClientSampleId :

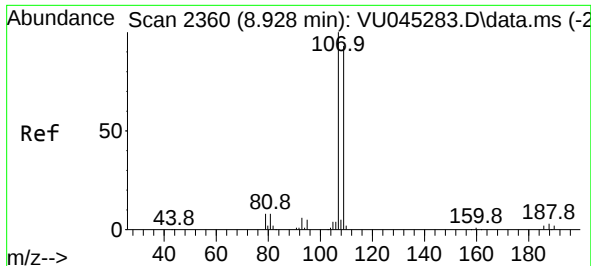
Tgt Ion: 43 Resp: 390099  
Ion Ratio Lower Upper  
43 100  
58 58.3 44.9 67.3  
57 20.5 15.5 23.3  
100 12.8 9.4 14.0



#49  
Dibromochloromethane  
Concen: 51.238 ug/L  
RT: 8.815 min Scan# 2325  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 129 Resp: 127515  
Ion Ratio Lower Upper  
129 100  
127 77.6 54.3 100.8





#50

1,2-Dibromoethane

Concen: 54.020 ug/L

RT: 8.928 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

Instrument :

MSVOA\_U

ClientSampleId :

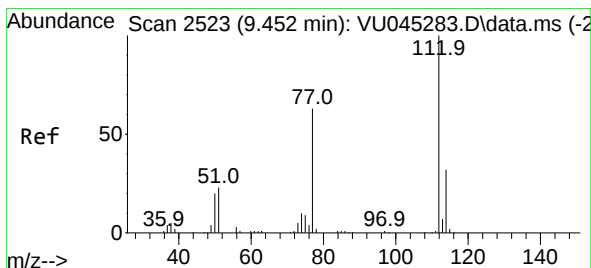
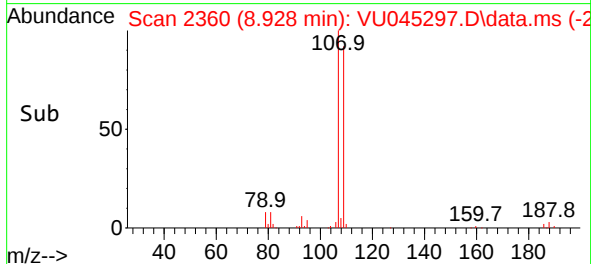
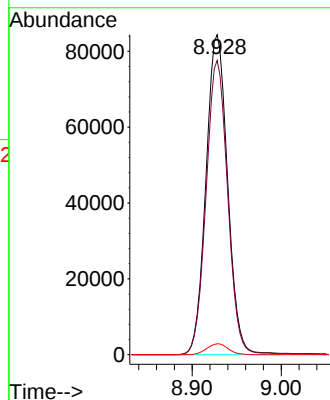
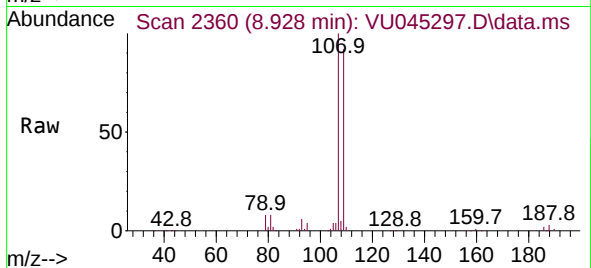
Tgt Ion:107 Resp: 142324

Ion Ratio Lower Upper

107 100

109 92.0 65.5 121.6

188 3.4 2.6 3.8



#51

Chlorobenzene

Concen: 53.988 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.003 min

Lab File: VU045297.D

Acq: 12 Oct 2021 17:25

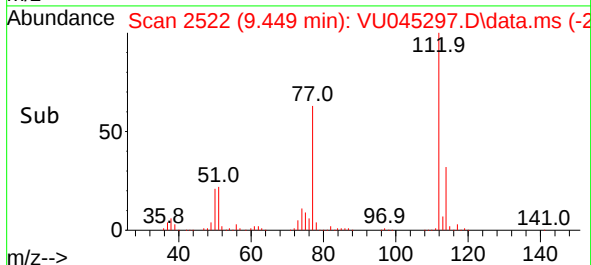
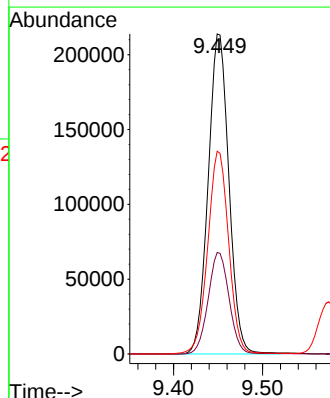
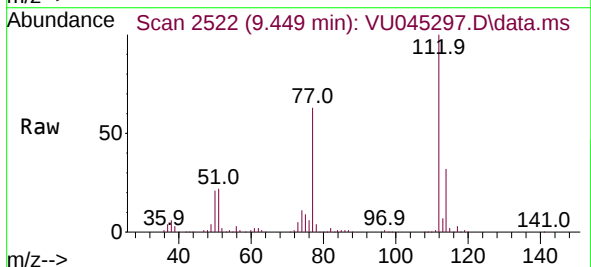
Tgt Ion:112 Resp: 345367

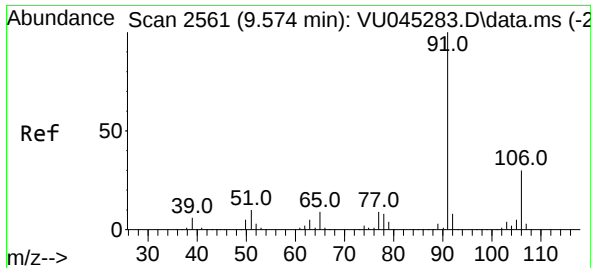
Ion Ratio Lower Upper

112 100

114 31.7 22.5 41.9

77 63.4 50.6 75.8

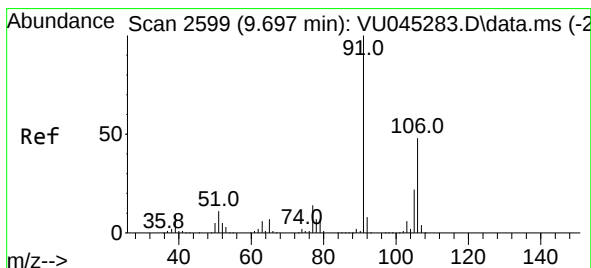
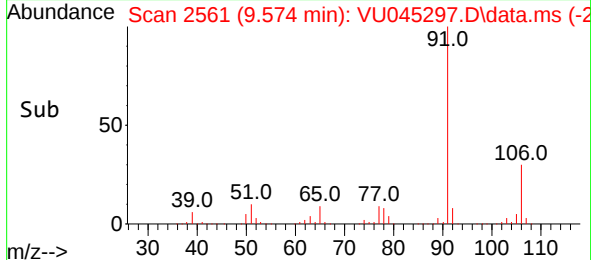
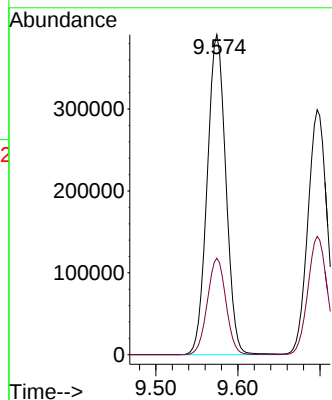
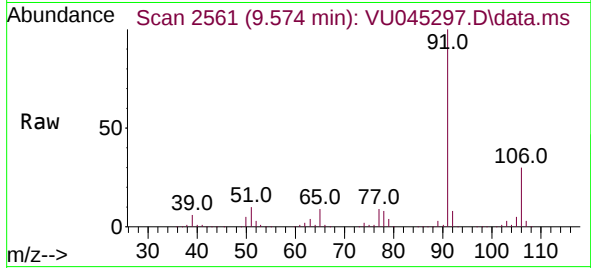




#52  
Ethylbenzene  
Concen: 56.410 ug/L  
RT: 9.574 min Scan# 2561  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

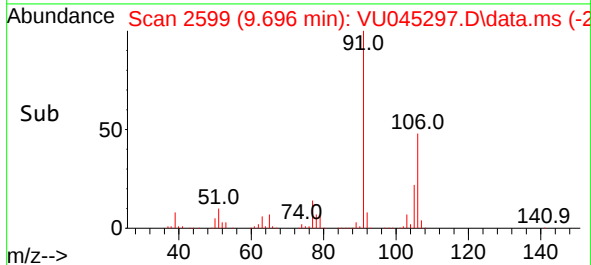
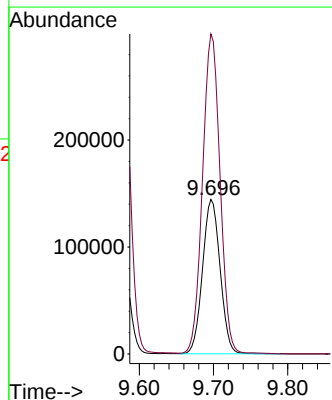
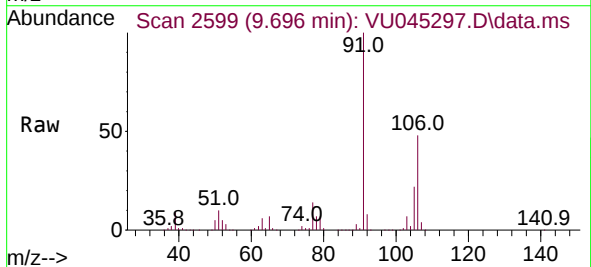
Instrument :  
MSVOA\_U  
ClientSampled :

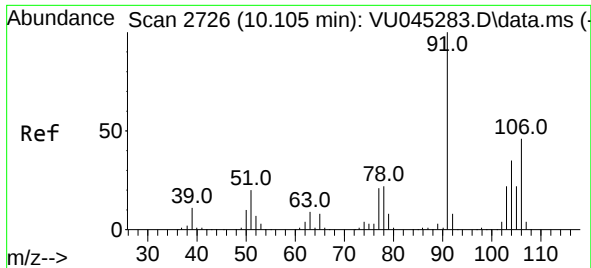
Tgt Ion: 91 Resp: 617492  
Ion Ratio Lower Upper  
91 100  
106 30.2 21.2 39.4



#53  
m,p-Xylene  
Concen: 57.197 ug/L  
RT: 9.696 min Scan# 2599  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 106 Resp: 237182  
Ion Ratio Lower Upper  
106 100  
91 207.1 146.7 272.4

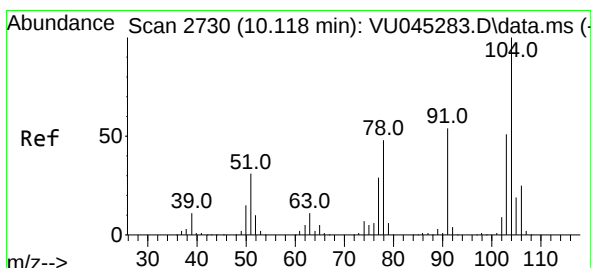
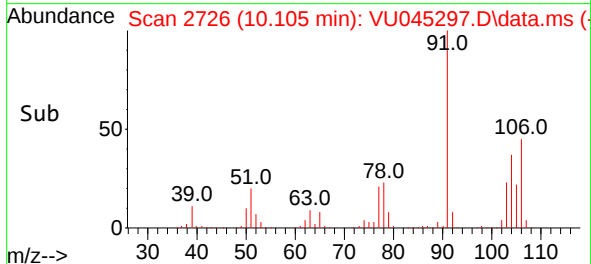
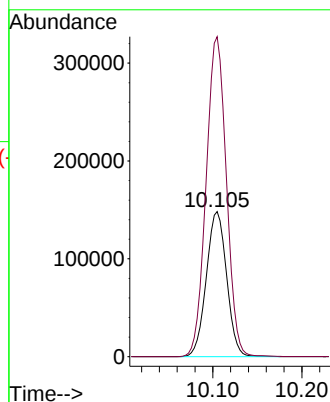
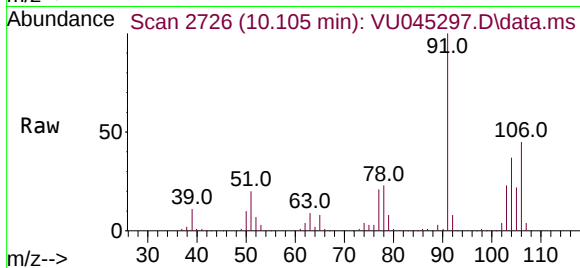




#54  
o-xylene  
Concen: 57.655 ug/L  
RT: 10.105 min Scan# 2726  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

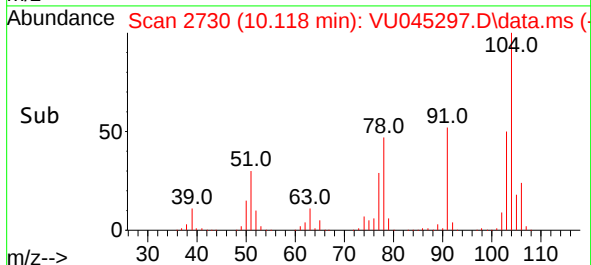
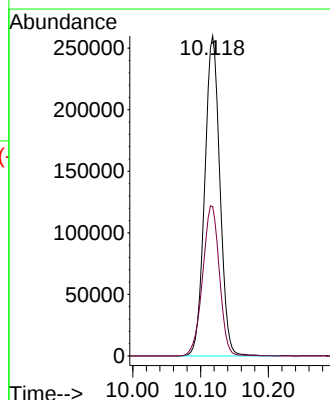
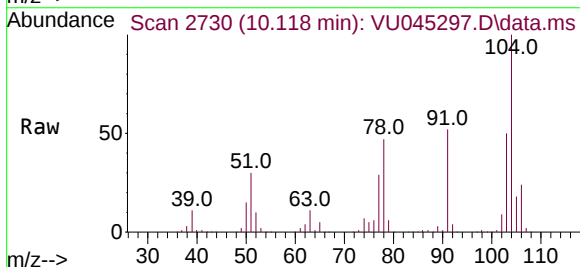
Instrument :  
MSVOA\_U  
ClientSampled :

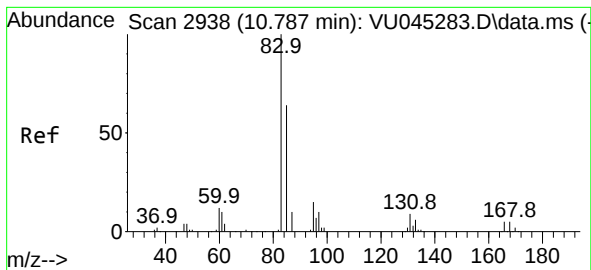
Tgt Ion:106 Resp: 234936  
Ion Ratio Lower Upper  
106 100  
91 220.5 152.9 283.9



#55  
Styrene  
Concen: 57.764 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion:104 Resp: 404787  
Ion Ratio Lower Upper  
104 100  
78 46.7 33.3 61.9

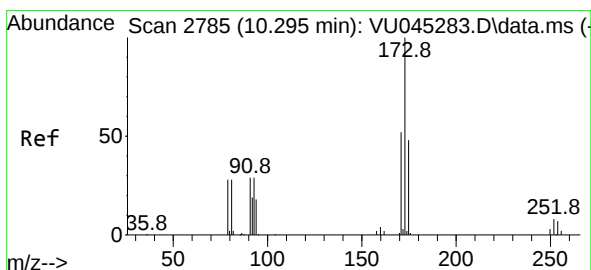
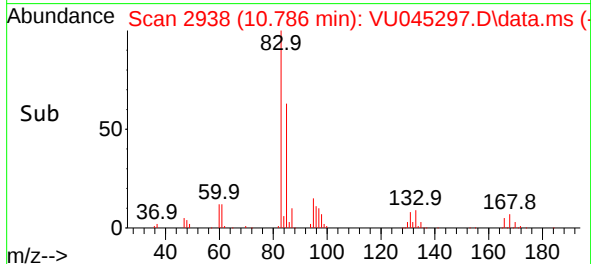
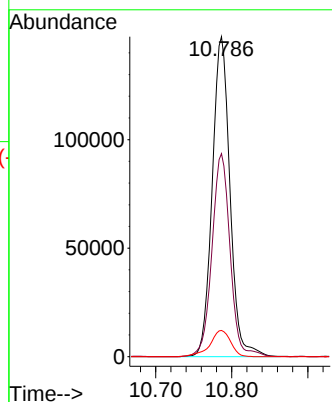
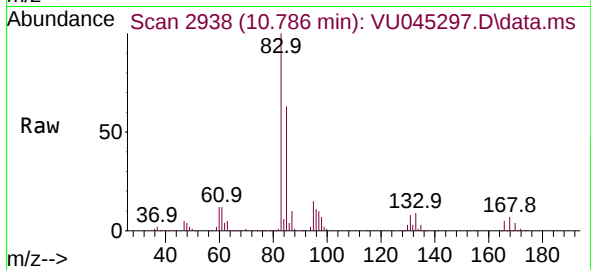




#57  
1,1,2,2-Tetrachloroethane  
Concen: 49.632 ug/L  
RT: 10.786 min Scan# 2938  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

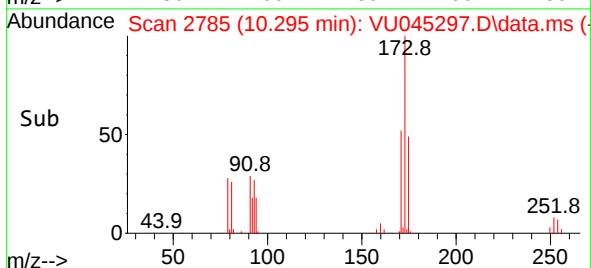
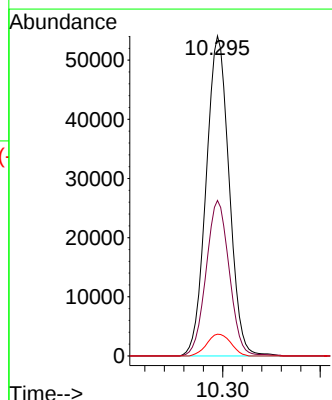
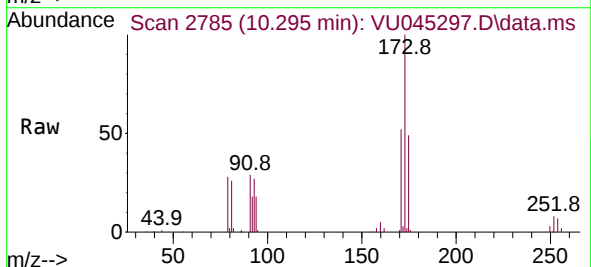
Instrument :  
MSVOA\_U  
ClientSampleId :

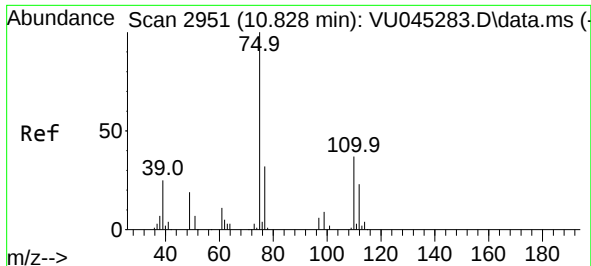
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 239136 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.4  | 45.1  | 83.7   |
| 131      | 8.2   | 6.9   | 10.3   |



#59  
Bromoform  
Concen: 51.414 ug/L  
RT: 10.295 min Scan# 2785  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 88489 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 48.8  | 38.4  | 57.6  |
| 254      | 7.1   | 5.3   | 7.9   |

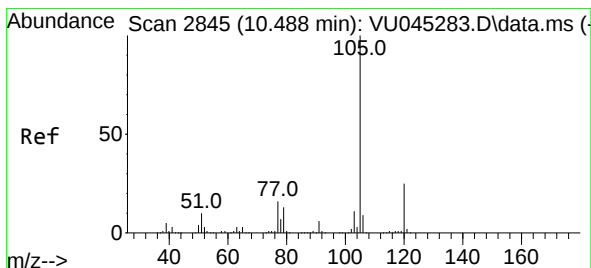
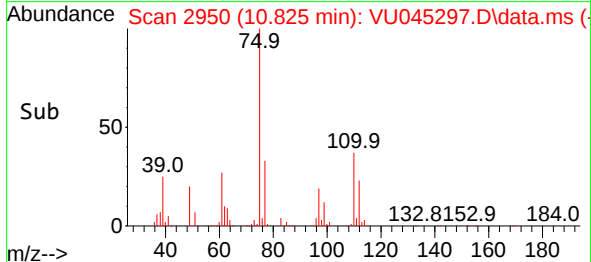
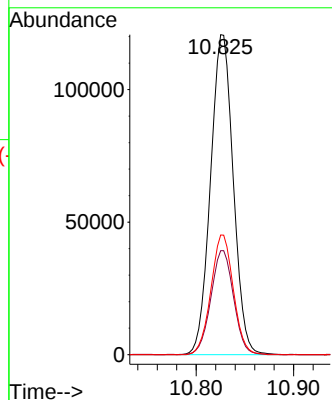
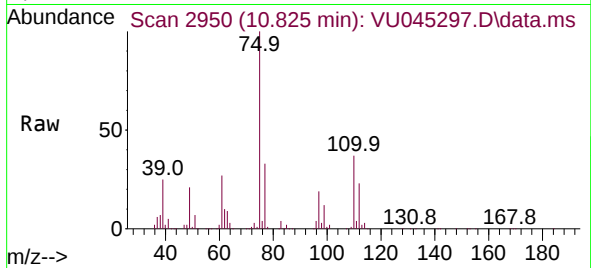




#60  
1,2,3-Trichloropropane  
Concen: 51.017 ug/L  
RT: 10.825 min Scan# 2950  
Delta R.T. -0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

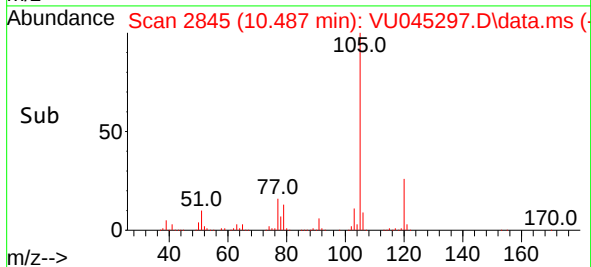
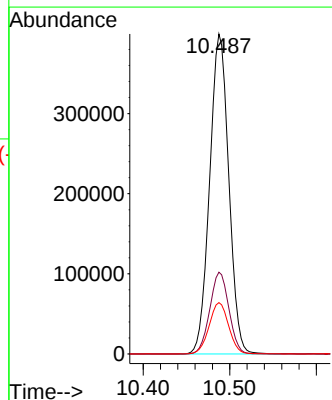
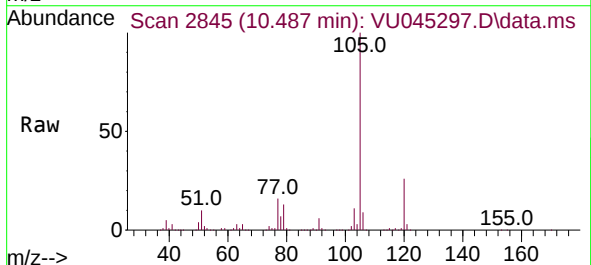
Instrument :  
MSVOA\_U  
ClientSampled :

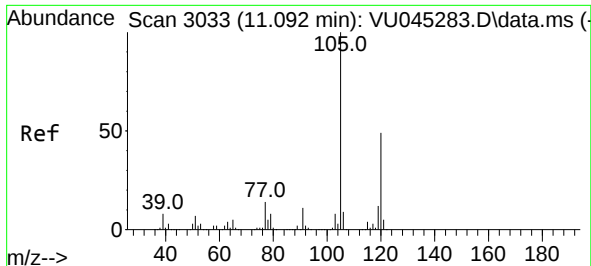
Tgt Ion: 75 Resp: 195816  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.5 38.3  
110 36.8 29.0 43.4



#61  
Isopropylbenzene  
Concen: 60.184 ug/L  
RT: 10.487 min Scan# 2845  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 105 Resp: 611235  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.5 30.7  
77 16.4 13.5 20.3

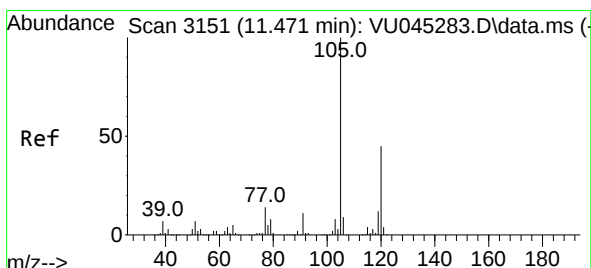
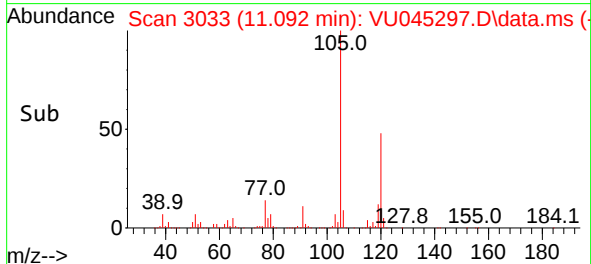
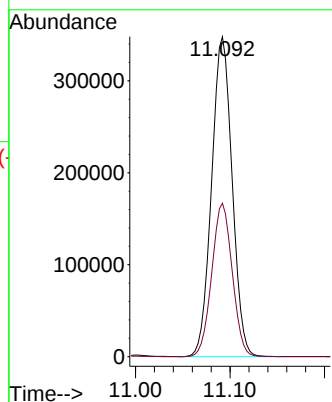
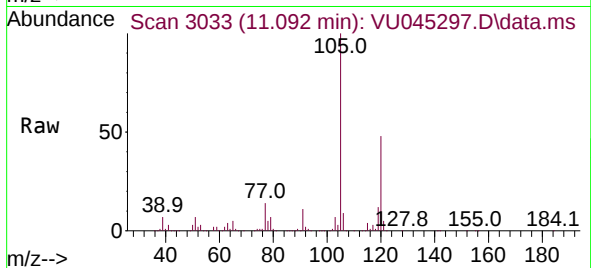




#62  
1,3,5-Trimethylbenzene  
Concen: 61.876 ug/L  
RT: 11.092 min Scan# 3033  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

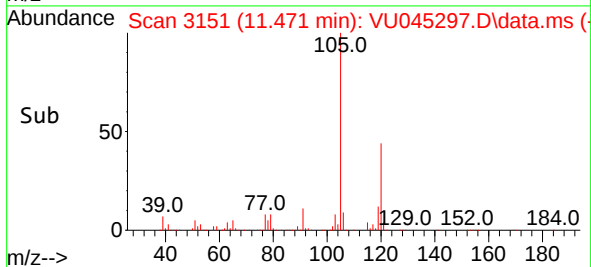
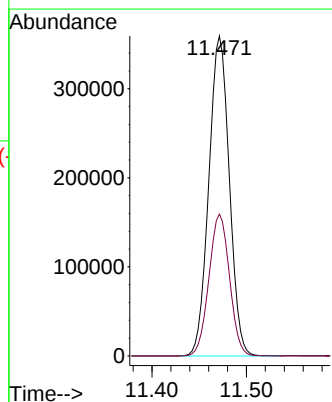
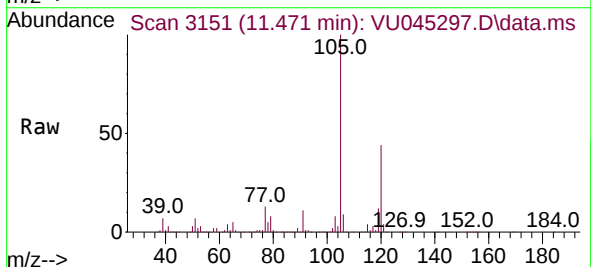
Instrument :  
MSVOA\_U  
ClientSampleId :

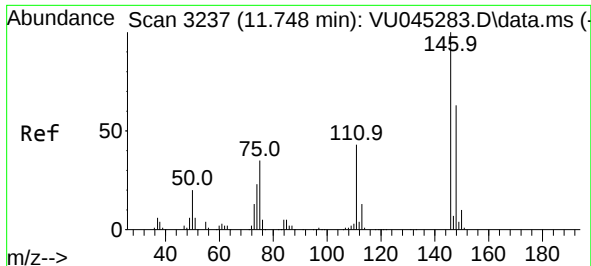
Tgt Ion:105 Resp: 524811  
Ion Ratio Lower Upper  
105 100  
120 47.8 38.8 58.2



#63  
1,2,4-Trimethylbenzene  
Concen: 62.256 ug/L  
RT: 11.471 min Scan# 3151  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion:105 Resp: 540719  
Ion Ratio Lower Upper  
105 100  
120 44.5 35.7 53.5

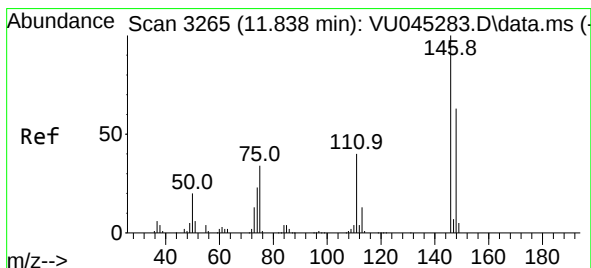
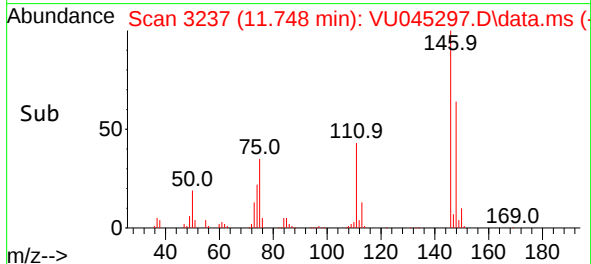
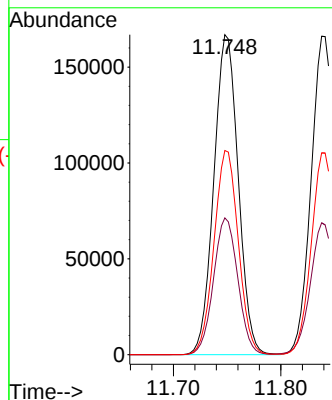
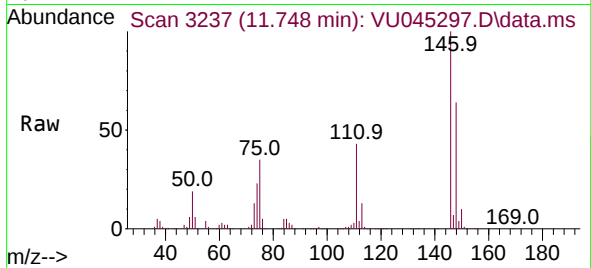




#64  
1,3-Dichlorobenzene  
Concen: 56.029 ug/L  
RT: 11.748 min Scan# 3237  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

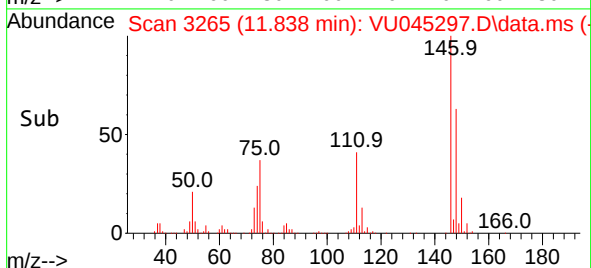
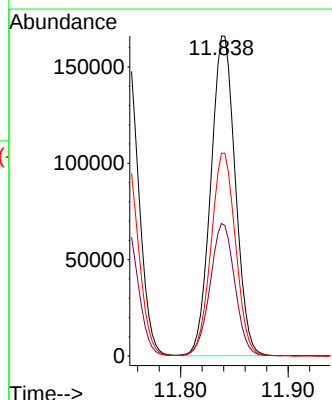
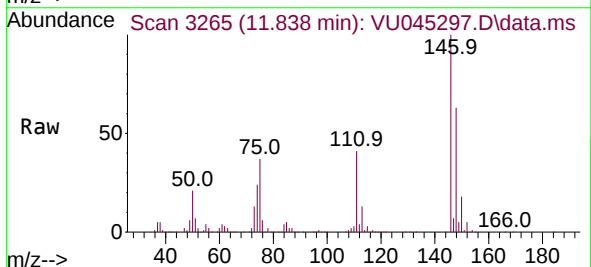
Instrument :  
MSVOA\_U  
ClientSampleId :

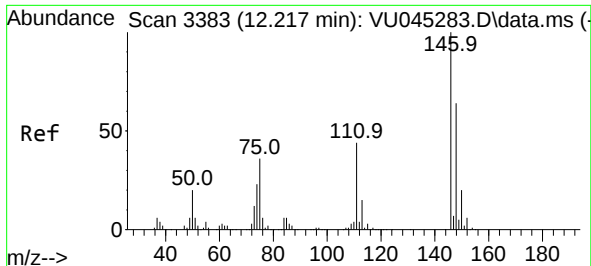
Tgt Ion:146 Resp: 262970  
Ion Ratio Lower Upper  
146 100  
111 42.7 29.0 53.8  
148 63.8 44.8 83.2



#65  
1,4-Dichlorobenzene  
Concen: 54.390 ug/L  
RT: 11.838 min Scan# 3265  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion:146 Resp: 261916  
Ion Ratio Lower Upper  
146 100  
111 41.4 28.5 52.9  
148 63.4 45.5 84.5

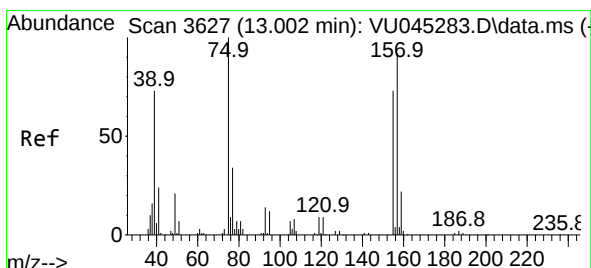
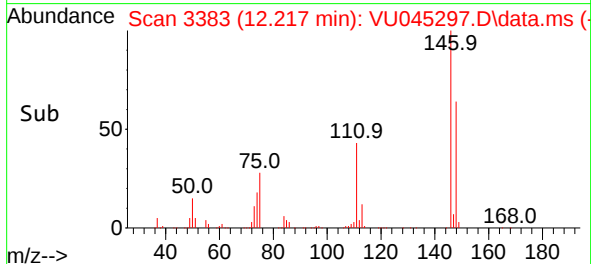
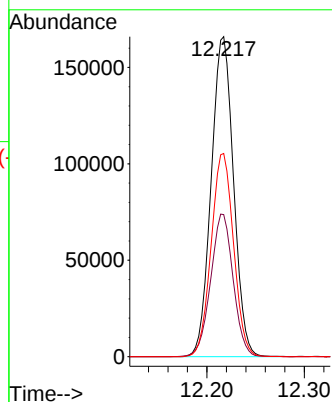
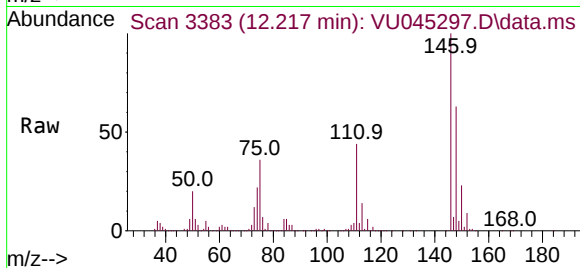




#67  
1,2-Dichlorobenzene  
Concen: 54.796 ug/L  
RT: 12.217 min Scan# 3383  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

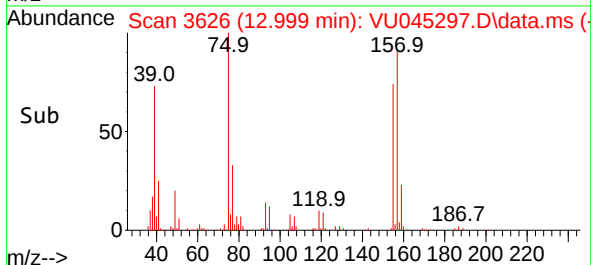
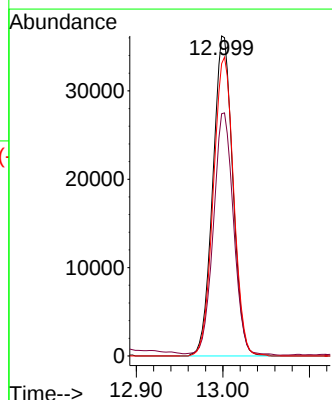
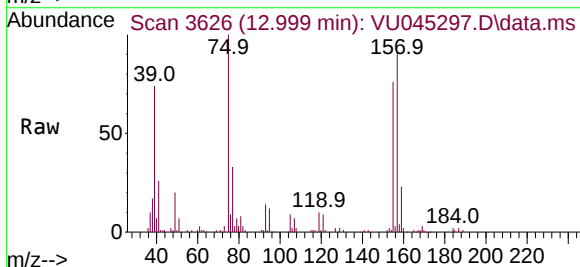
Instrument :  
MSVOA\_U  
ClientSampled :

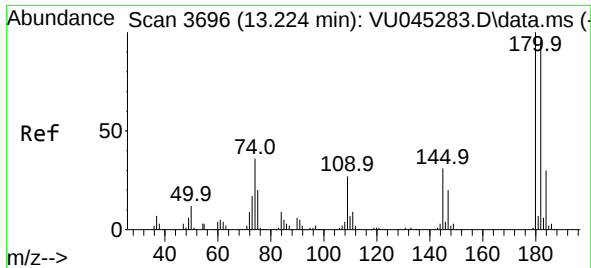
Tgt Ion:146 Resp: 264020  
Ion Ratio Lower Upper  
146 100  
111 44.4 34.7 52.1  
148 63.5 51.0 76.6



#68  
1,2-Dibromo-3-chloropropane  
Concen: 52.651 ug/L  
RT: 12.999 min Scan# 3626  
Delta R.T. -0.003 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion: 75 Resp: 58076  
Ion Ratio Lower Upper  
75 100  
155 75.7 58.5 87.7  
157 91.3 77.7 116.5

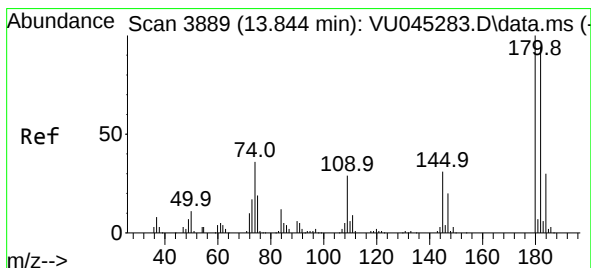
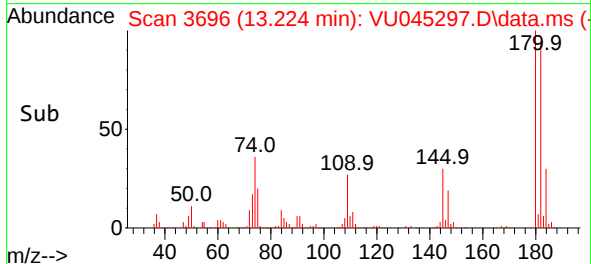
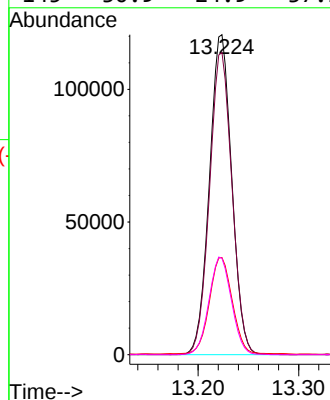
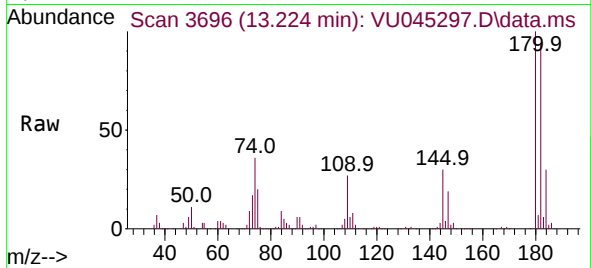




#69  
1,3,5-Trichlorobenzene  
Concen: 57.087 ug/L  
RT: 13.224 min Scan# 3696  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

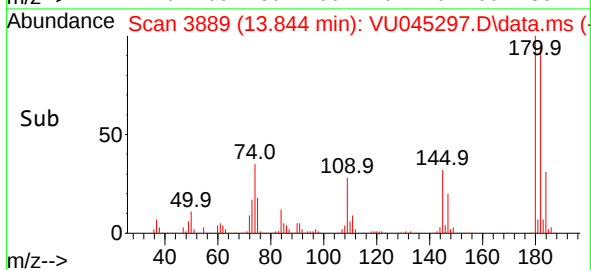
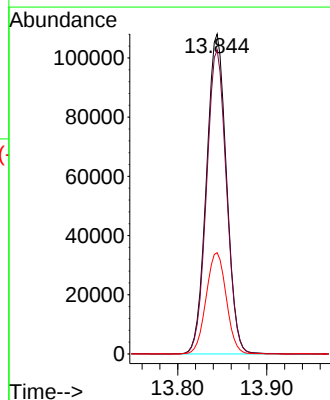
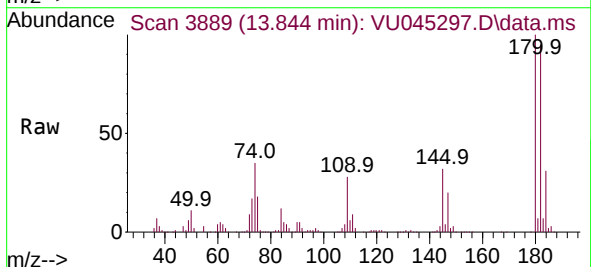
Instrument :  
MSVOA\_U  
ClientSampleId :

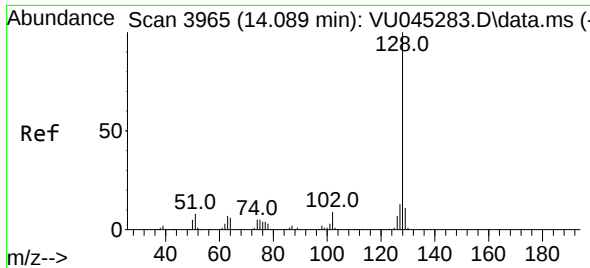
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 185946 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.3  | 76.8  | 115.2  |
| 184       | 30.7  | 24.4  | 36.6   |
| 145       | 30.9  | 24.9  | 37.3   |



#70  
1,2,4-trichlorobenzene  
Concen: 62.361 ug/L  
RT: 13.844 min Scan# 3889  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 168792 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.4  | 76.2  | 114.2  |
| 145       | 31.9  | 25.4  | 38.0   |

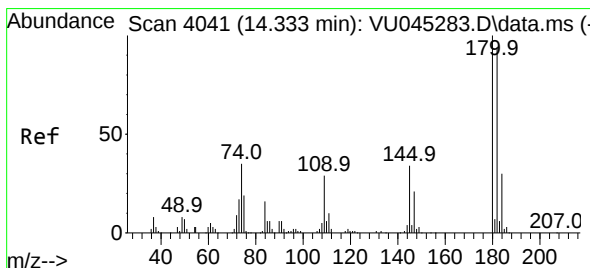
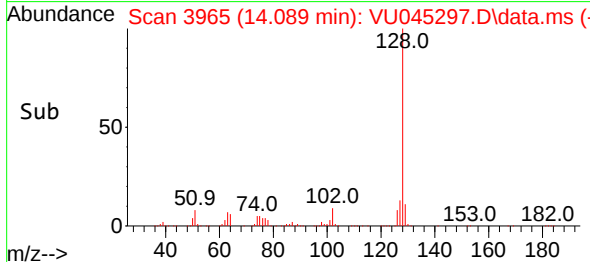
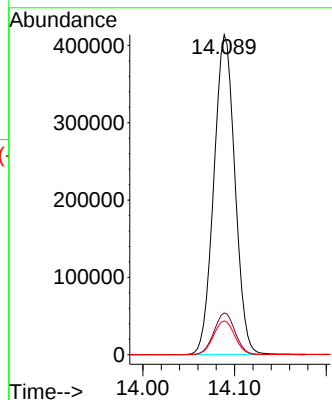
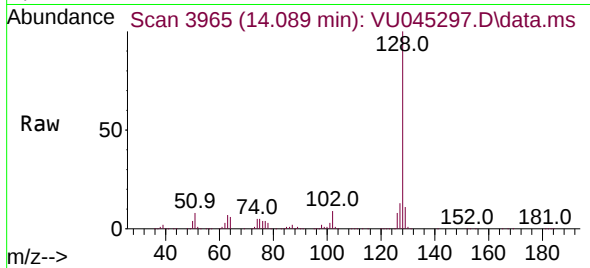




#71  
Naphthalene  
Concen: 70.291 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Instrument :  
MSVOA\_U  
ClientSampled :

Tgt Ion:128 Resp: 659301  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.4 15.6  
129 10.8 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 61.327 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. -0.000 min  
Lab File: VU045297.D  
Acq: 12 Oct 2021 17:25

Tgt Ion:180 Resp: 169836  
Ion Ratio Lower Upper  
180 100  
182 95.6 76.8 115.2  
145 34.1 26.5 39.7

