

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101121\  
 Data File : VU045281.D  
 Acq On : 11 Oct 2021 14:49  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050102

Quant Time: Oct 12 05:52:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 12 05:50:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 272906   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.423   | 117   | 269623   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816  | 152   | 137093   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 130135   | 43.559   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 87.120%  |
| 7) Chloroethane-d5            | 1.890   | 69    | 106475   | 44.975   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 89.960%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 227342   | 45.314   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.620%  |
| 21) 2-Butanone-d5             | 4.626   | 46    | 209972   | 88.901   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 88.900%  |
| 24) Chloroform-d              | 5.070   | 84    | 225652   | 47.823   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.640%  |
| 26) 1,2-Dichloroethane-d4     | 5.707   | 65    | 149350   | 46.729   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.460%  |
| 32) Benzene-d6                | 5.732   | 84    | 451277   | 48.235   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.460%  |
| 36) 1,2-Dichloropropane-d6    | 6.697   | 67    | 143639   | 47.085   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 94.180%  |
| 41) Toluene-d8                | 7.903   | 98    | 404825   | 50.140   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 100.280% |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 69835    | 51.463   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 102.920% |
| 47) 2-Hexanone-d5             | 8.639   | 63    | 152590   | 90.260   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 90.260%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761  | 84    | 230496   | 48.522   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 97.040%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.198  | 152   | 151254   | 50.696   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.400% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 127743   | 48.886   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 140375   | 43.098   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.604   | 62    | 155821   | 48.830   | ug/L   | 98       |
| 6) Bromomethane               | 1.829   | 94    | 44505    | 29.078   | ug/L   | 98       |
| 8) Chloroethane               | 1.916   | 64    | 100129   | 49.995   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.128   | 101   | 183262   | 50.176   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 117108   | 50.800   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 108628   | 51.401   | ug/L   | 92       |
| 13) Acetone                   | 2.633   | 43    | 221640   | 81.181   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.790   | 76    | 317086   | 46.834   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.951   | 43    | 156099   | 46.359   | ug/L   | 98       |
| 16) Methylene chloride        | 3.047   | 84    | 139814   | 52.220   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 114861   | 51.594   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 412972   | 56.258   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.871   | 63    | 235940   | 50.943   | ug/L   | 100      |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 132497   | 54.011   | ug/L   | 94       |
| 22) 2-Butanone                | 4.707   | 43    | 266200   | 87.117   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.980   | 128   | 64794    | 52.102   | ug/L   | 97       |
| 25) Chloroform                | 5.092   | 83    | 238665   | 51.835   | ug/L   | 100      |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050102

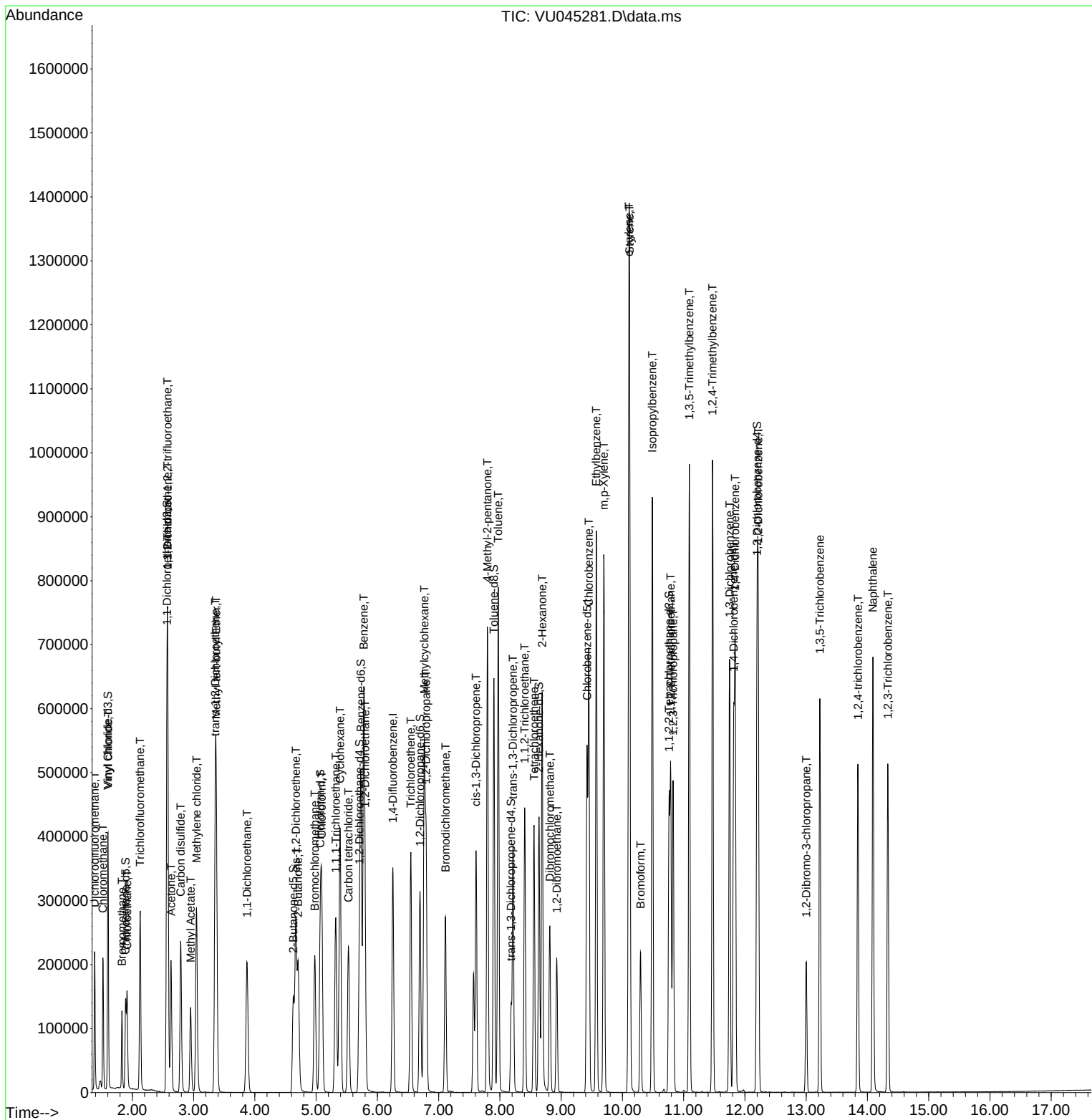
Quant Time: Oct 12 05:52:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 12 05:50:24 2021  
 Response via : Initial Calibration

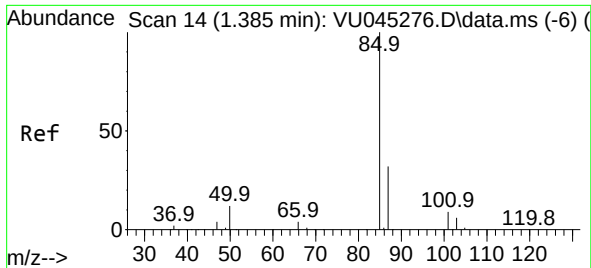
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.800  | 62   | 199369   | 51.771  | ug/L  | 99       |
| 29) Cyclohexane               | 5.391  | 56   | 212123   | 52.340  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.321  | 97   | 191975   | 51.436  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.530  | 117  | 148178   | 50.266  | ug/L  | 99       |
| 33) Benzene                   | 5.777  | 78   | 525435   | 52.543  | ug/L  | 100      |
| 34) Trichloroethene           | 6.546  | 95   | 126617   | 52.714  | ug/L  | 99       |
| 35) Methylcyclohexane         | 6.768  | 83   | 211434   | 52.578  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.797  | 63   | 141223   | 51.868  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.112  | 83   | 176333   | 52.834  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 213540   | 54.812  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.796  | 43   | 457864   | 100.667 | ug/L  | 97       |
| 42) Toluene                   | 7.973  | 91   | 552456   | 54.372  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 204954   | 55.327  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 134020   | 54.314  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.559  | 164  | 87537    | 50.988  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.690  | 43   | 380731   | 94.397  | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.816  | 129  | 130968   | 53.668  | ug/L  | 98       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 139150   | 53.862  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.452  | 112  | 339357   | 54.100  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.575  | 91   | 601056   | 55.997  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.697  | 106  | 233010   | 57.304  | ug/L  | 98       |
| 54) o-xylene                  | 10.105 | 106  | 230353   | 57.650  | ug/L  | 100      |
| 55) Styrene                   | 10.118 | 104  | 398320   | 57.968  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 244935   | 51.842  | ug/L  | 100      |
| 59) Bromoform                 | 10.298 | 173  | 93754    | 55.141  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.829 | 75   | 198734   | 52.412  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.488 | 105  | 593314   | 59.136  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 512514   | 61.167  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.472 | 105  | 520723   | 60.689  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.751 | 146  | 258397   | 55.729  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.841 | 146  | 258091   | 54.253  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.218 | 146  | 261661   | 54.972  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 53732    | 49.310  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 175341   | 54.492  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 144455   | 54.024  | ug/L  | 99       |
| 71) Naphthalene               | 14.089 | 128  | 512065   | 55.263  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 144302   | 52.746  | ug/L  | 100      |

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

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD050102

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Quant Title : VOC Analysis  
QLast Update : Tue Oct 12 05:50:24 2021  
Response via : Initial Calibration

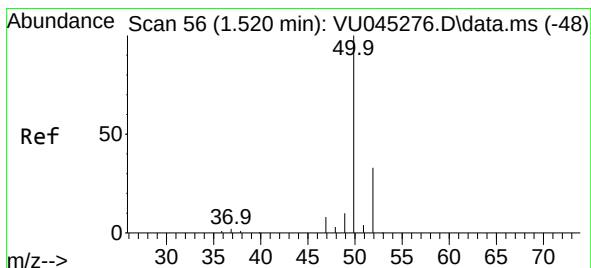
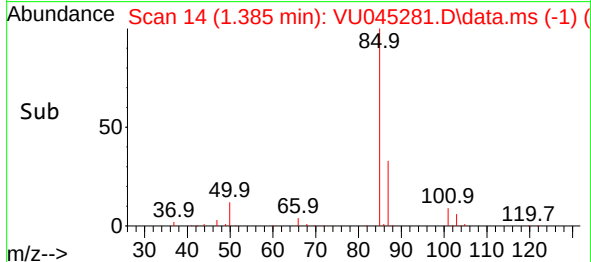
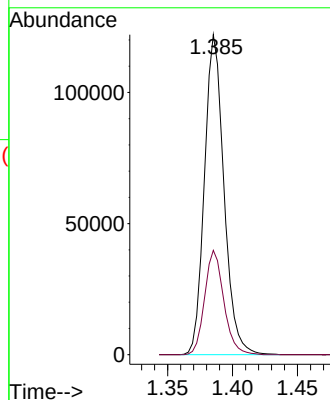
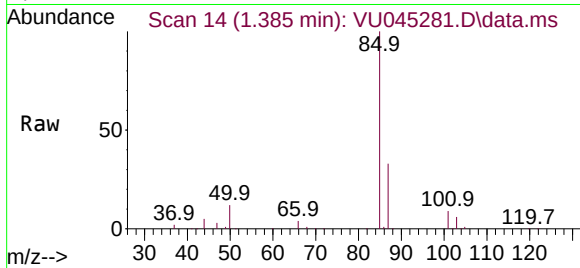




#2  
Dichlorodifluoromethane  
Concen: 48.886 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

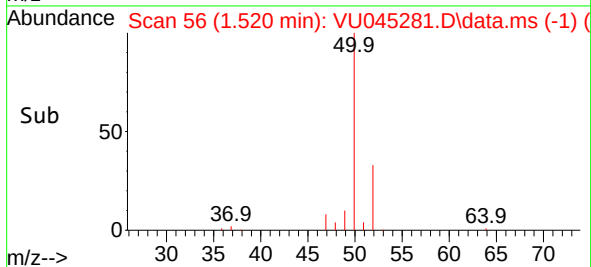
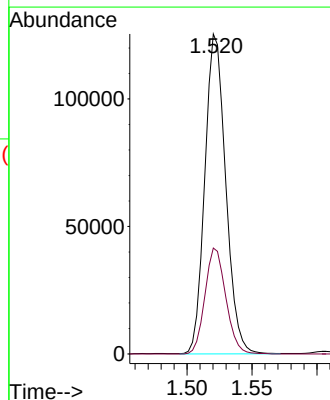
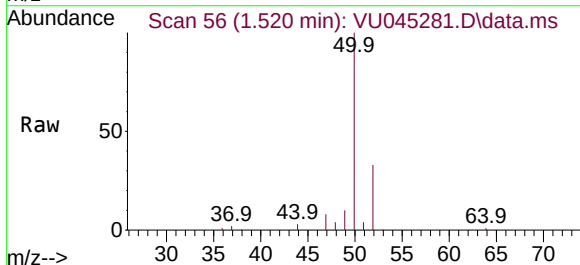
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

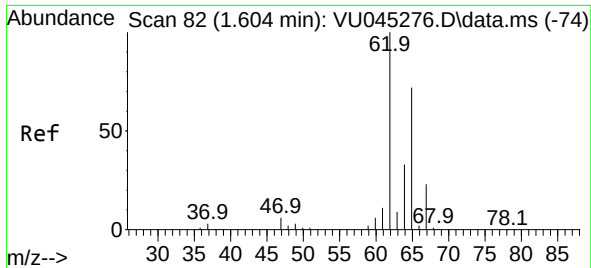
Tgt Ion: 85 Resp: 127743  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.2 37.8



#3  
Chloromethane  
Concen: 43.098 ug/L  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 50 Resp: 140375  
Ion Ratio Lower Upper  
50 100  
52 33.1 23.0 42.8

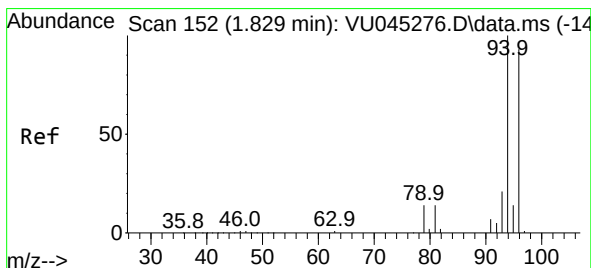
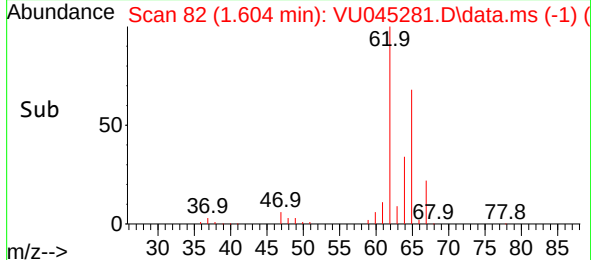
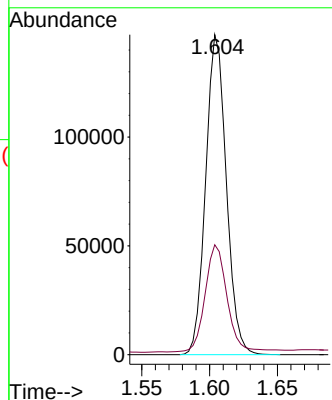
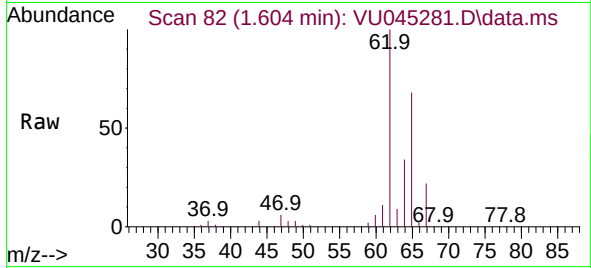




#5  
 Vinyl chloride  
 Concen: 48.830 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

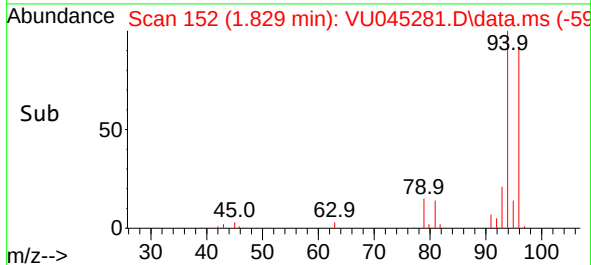
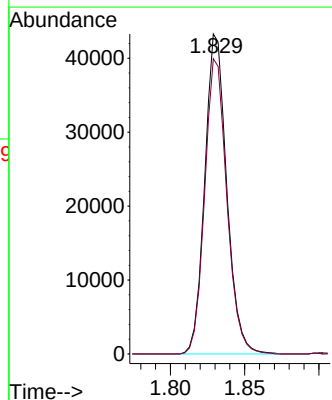
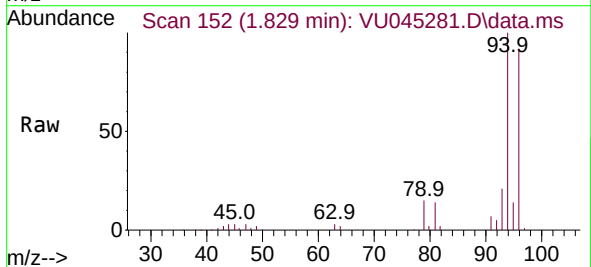
Instrument :  
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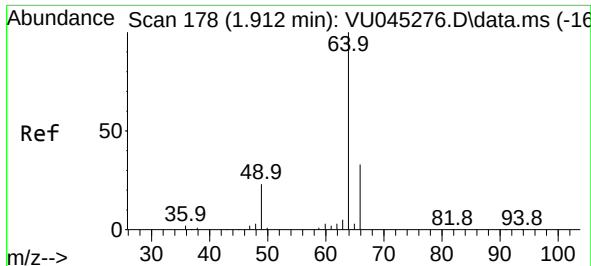
Tgt Ion: 62 Resp: 155821  
 Ion Ratio Lower Upper  
 62 100  
 64 34.4 23.4 43.6



#6  
 Bromomethane  
 Concen: 29.078 ug/L  
 RT: 1.829 min Scan# 152  
 Delta R.T. 0.000 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

Tgt Ion: 94 Resp: 44505  
 Ion Ratio Lower Upper  
 94 100  
 96 92.2 65.7 121.9

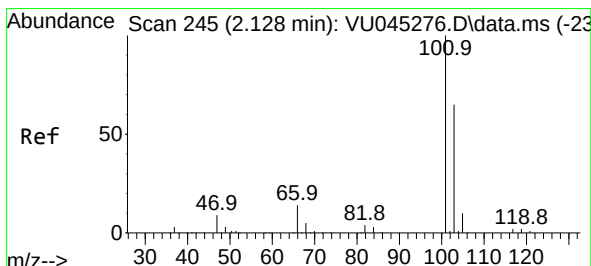
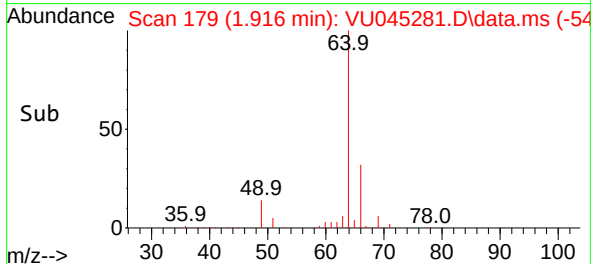
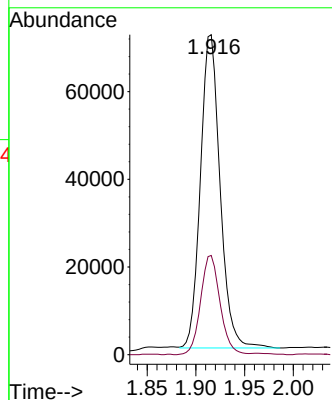
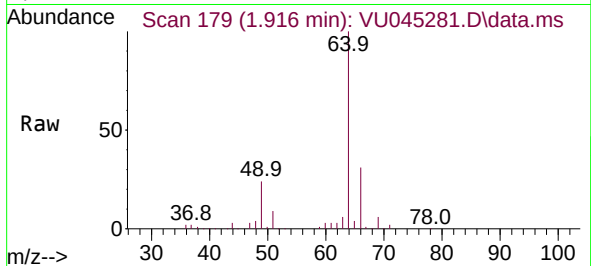




#8  
Chloroethane  
Concen: 49.995 ug/L  
RT: 1.916 min Scan# 179  
Delta R.T. 0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

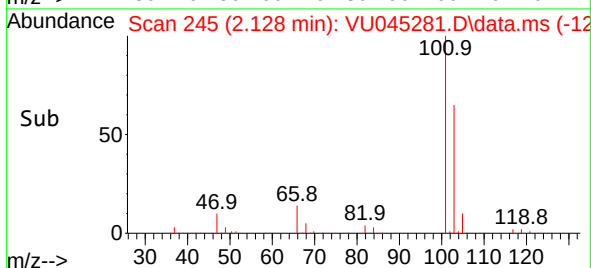
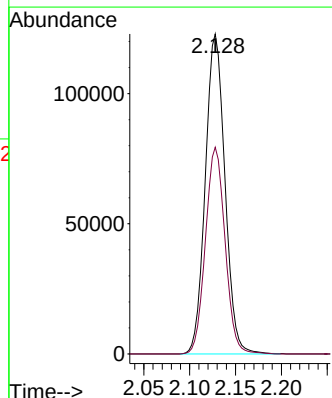
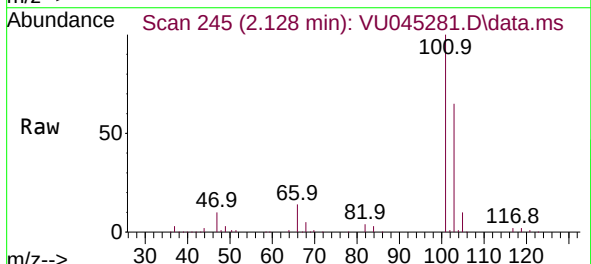
Instrument :  
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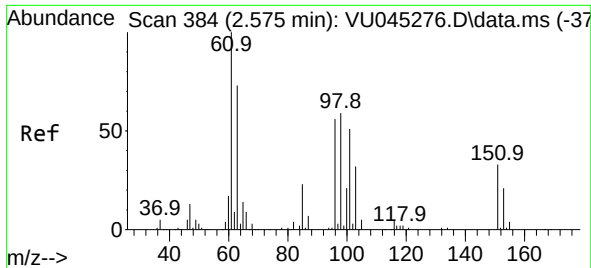
Tgt Ion: 64 Resp: 100129  
Ion Ratio Lower Upper  
64 100  
66 31.0 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 50.176 ug/L  
RT: 2.128 min Scan# 245  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:101 Resp: 183262  
Ion Ratio Lower Upper  
101 100  
103 64.5 50.9 76.3

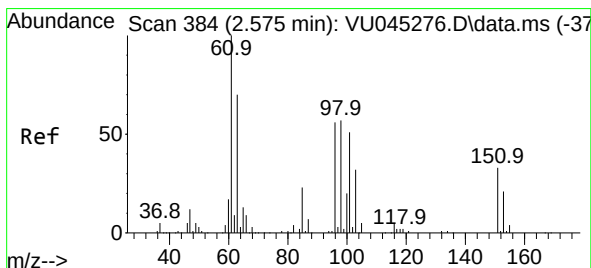
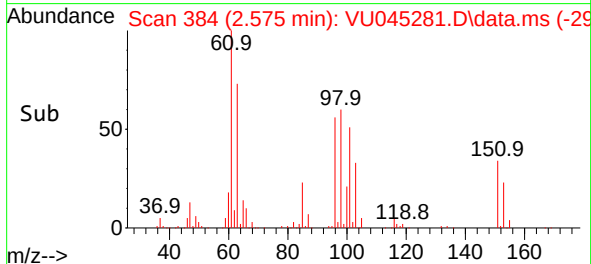
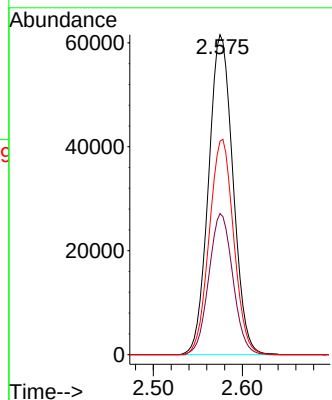
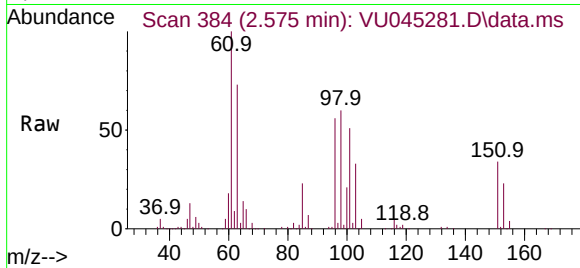




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 50.800 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. 0.000 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

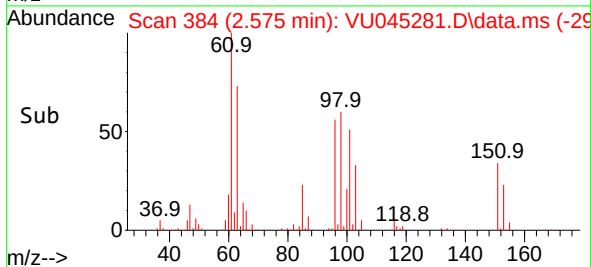
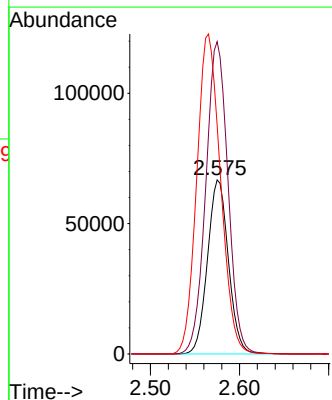
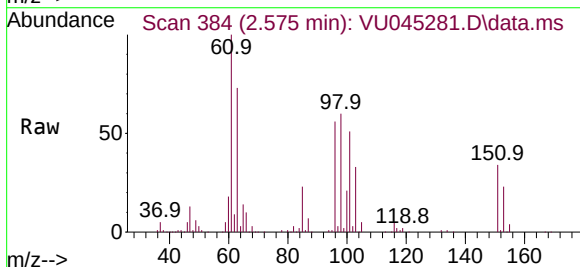
Instrument :  
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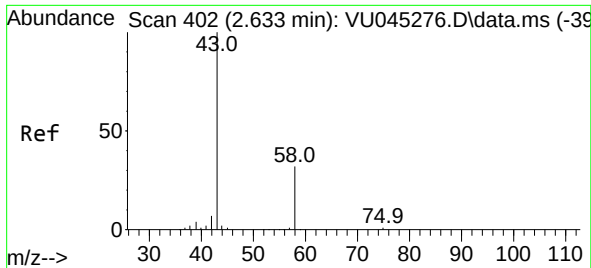
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 Ion Ratio Lower Upper  
 101 100  
 85 43.5 36.4 54.6  
 151 67.4 54.4 81.6



#12  
 1,1-Dichloroethene  
 Concen: 51.401 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. 0.000 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

Tgt Ion: 96 Resp: 108628  
 Ion Ratio Lower Upper  
 96 100  
 61 179.5 131.3 243.9  
 63 131.3 102.5 190.3

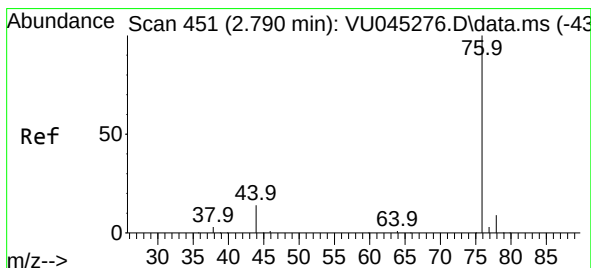
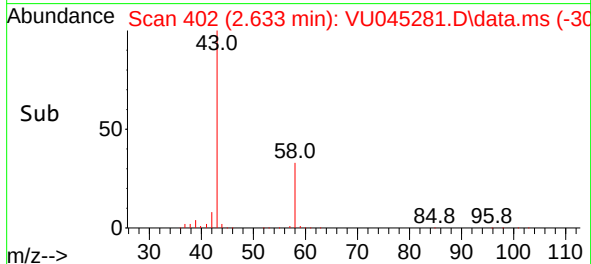
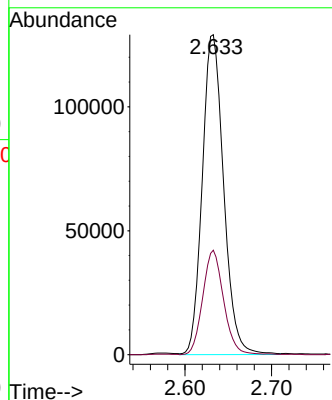
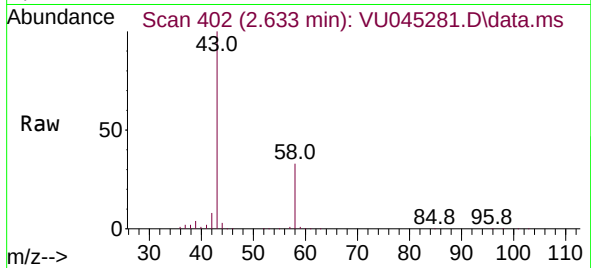




#13  
Acetone  
Concen: 81.181 ug/L  
RT: 2.633 min Scan# 402  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

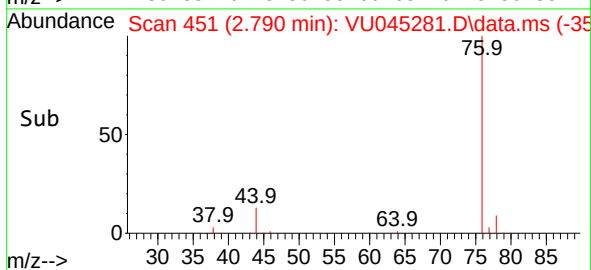
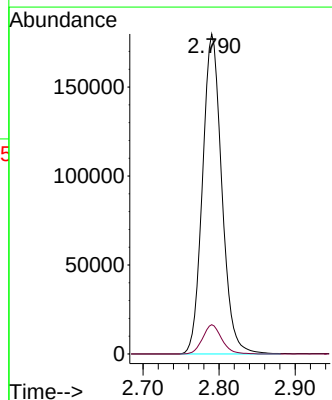
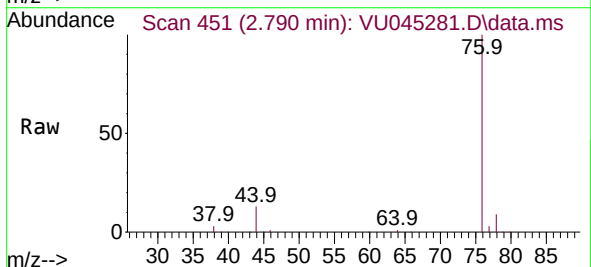
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

Tgt Ion: 43 Resp: 221640  
Ion Ratio Lower Upper  
43 100  
58 31.8 0.0 62.8

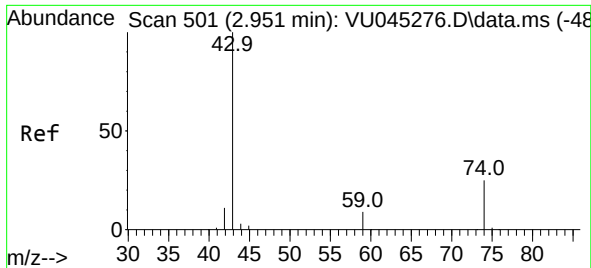


#14  
Carbon disulfide  
Concen: 46.834 ug/L  
RT: 2.790 min Scan# 451  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 76 Resp: 317086  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.3 10.9



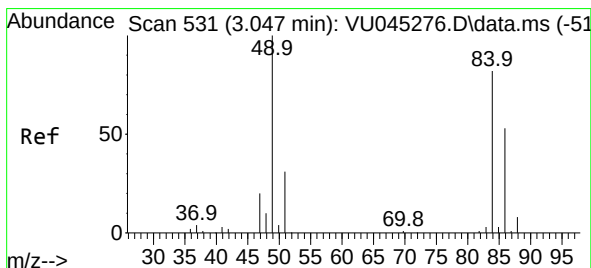
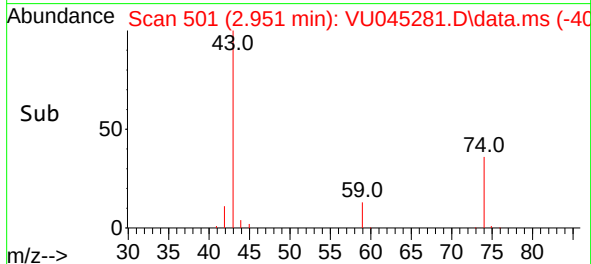
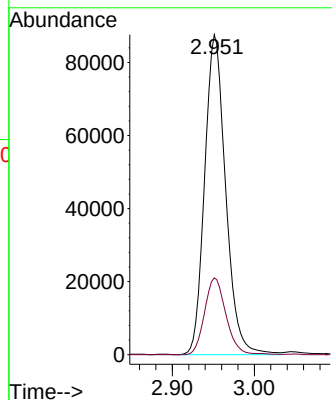
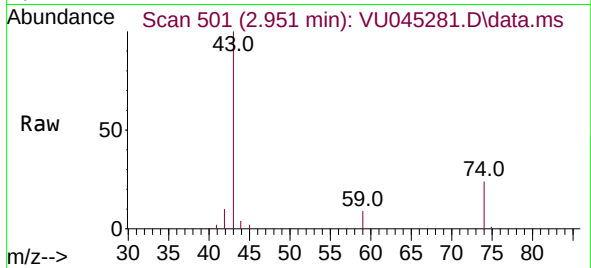




#15  
Methyl Acetate  
Concen: 46.359 ug/L  
RT: 2.951 min Scan# 501  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

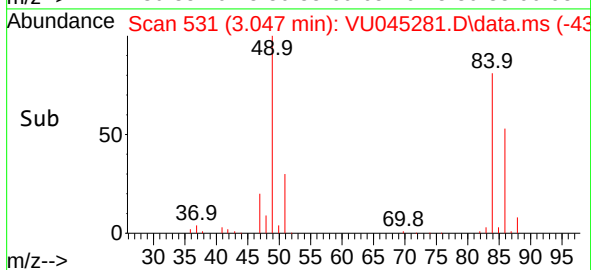
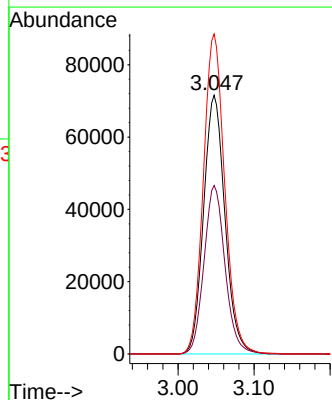
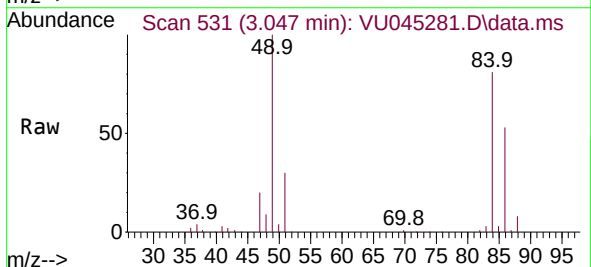
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

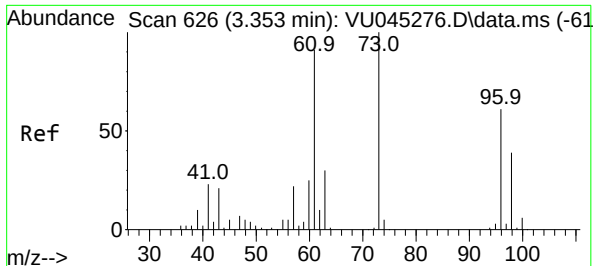
Tgt Ion: 43 Resp: 156099  
Ion Ratio Lower Upper  
43 100  
74 24.2 18.4 27.6



#16  
Methylene chloride  
Concen: 52.220 ug/L  
RT: 3.047 min Scan# 531  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 84 Resp: 139814  
Ion Ratio Lower Upper  
84 100  
86 65.1 44.7 83.1  
49 123.7 92.9 172.5



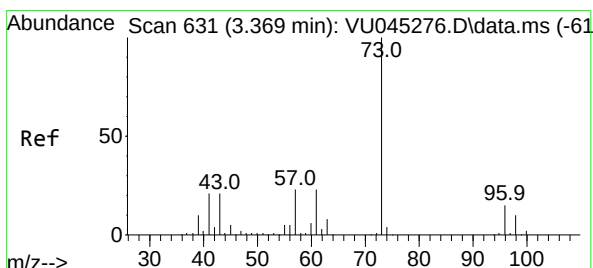
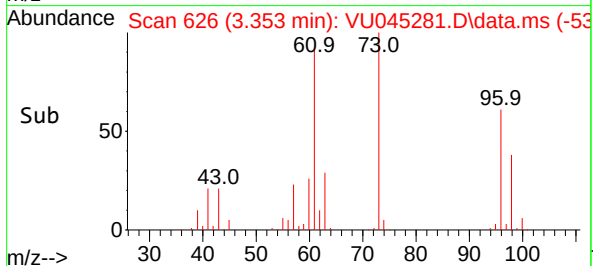
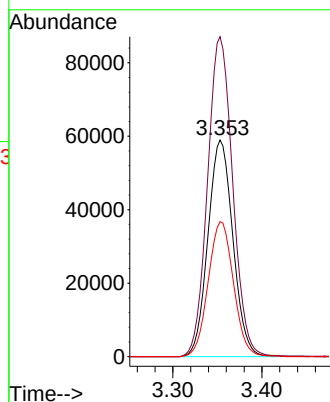
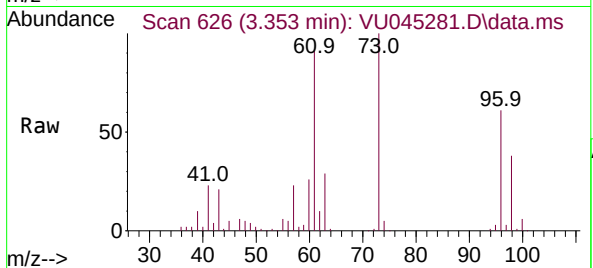


#17

trans-1,2-Dichloroethene  
Concen: 51.594 ug/L  
RT: 3.353 min Scan# 626  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

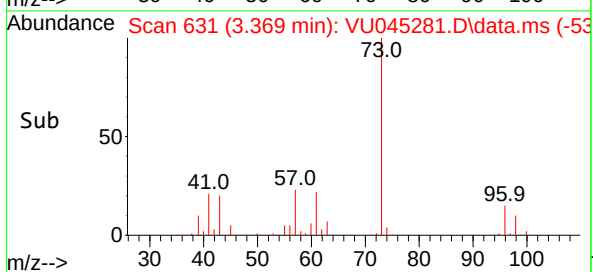
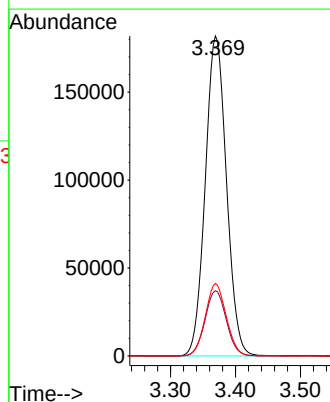
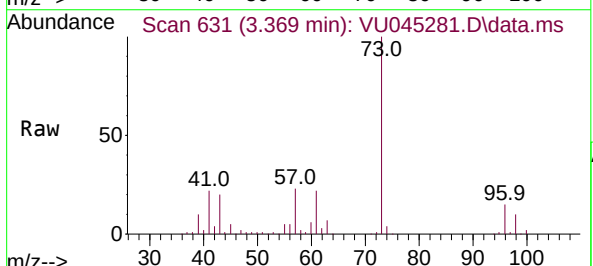
Tgt Ion: 96 Resp: 114861  
Ion Ratio Lower Upper  
96 100  
61 147.7 105.1 195.3  
98 62.3 43.0 79.8

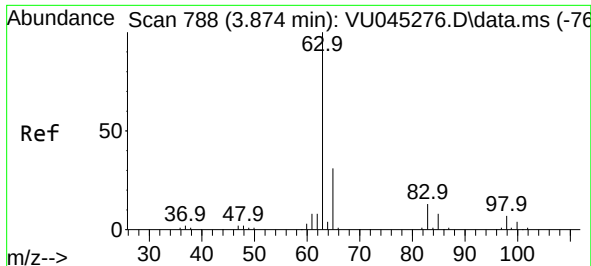


#18

Methyl tert-butyl Ether  
Concen: 56.258 ug/L  
RT: 3.369 min Scan# 631  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 73 Resp: 412972  
Ion Ratio Lower Upper  
73 100  
43 20.6 17.3 25.9  
57 22.3 18.7 28.1





#19

1,1-Dichloroethane

Concen: 50.943 ug/L

RT: 3.871 min Scan# 787

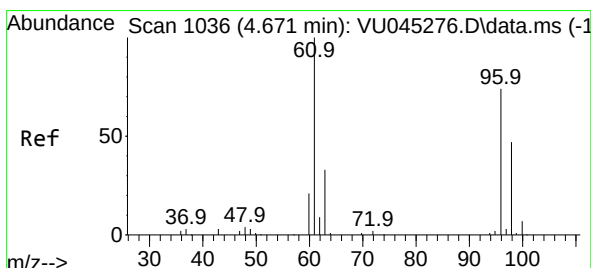
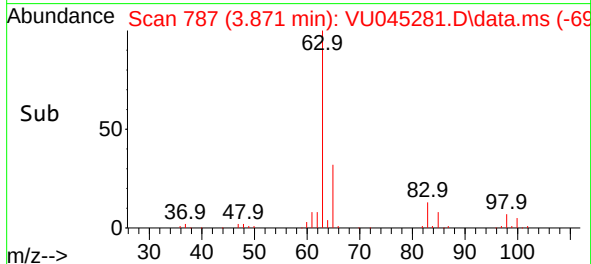
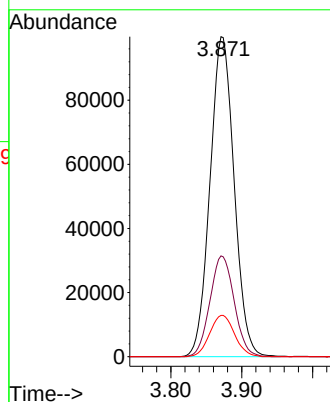
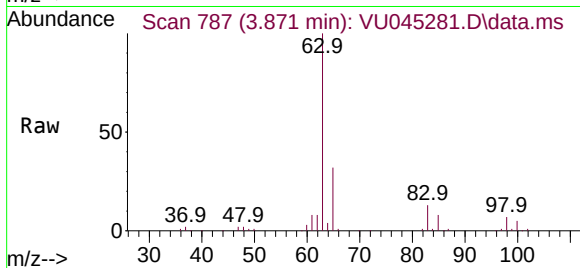
Delta R.T. -0.003 min

Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

Tgt Ion: 63 Resp: 235940

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 31.5  | 22.0  | 40.8  |
| 83  | 12.9  | 9.0   | 16.6  |



#20

cis-1,2-Dichloroethene

Concen: 54.011 ug/L

RT: 4.671 min Scan# 1036

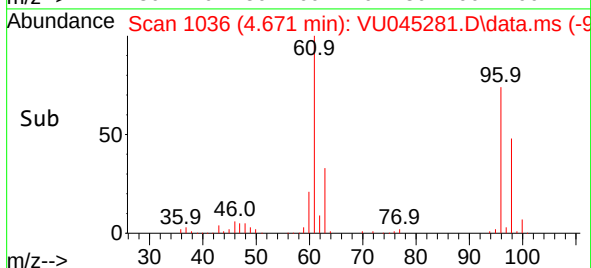
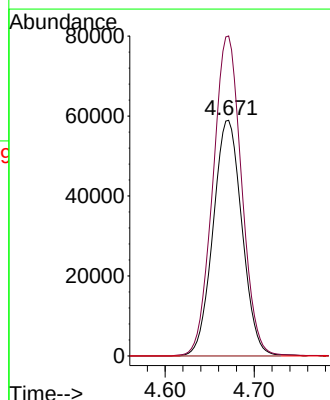
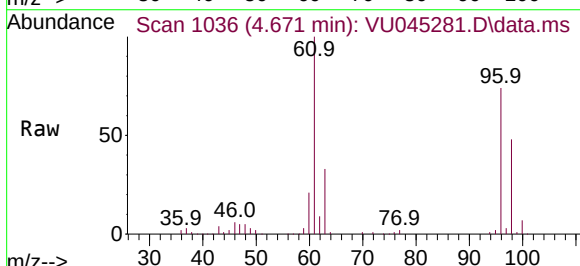
Delta R.T. 0.000 min

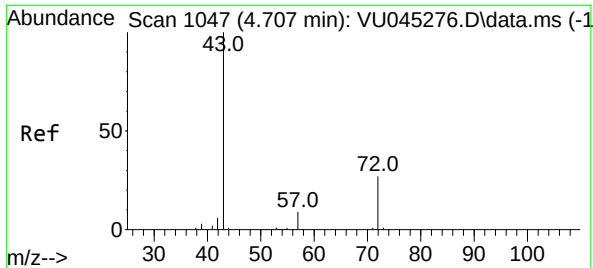
Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

Tgt Ion: 96 Resp: 132497

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 135.8 | 100.2 | 186.0 |
| 68  | 0.0   | 0.0   | 0.0   |

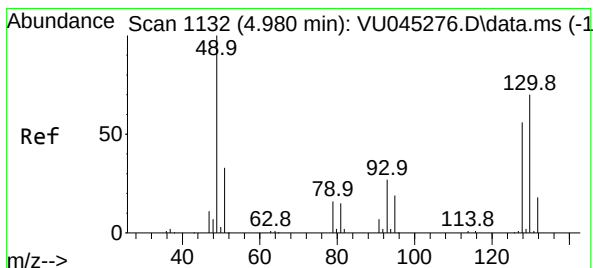
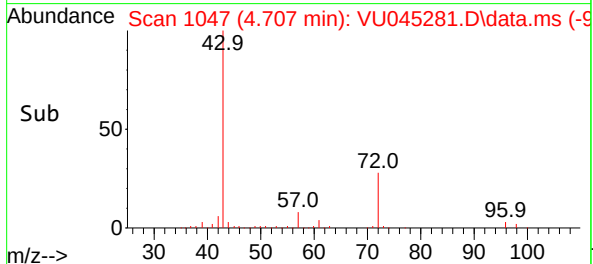
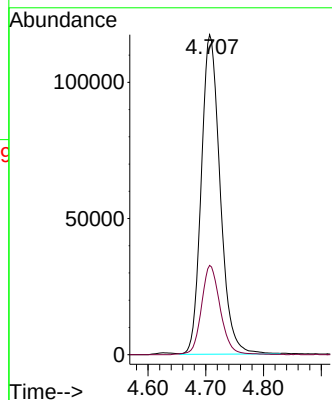
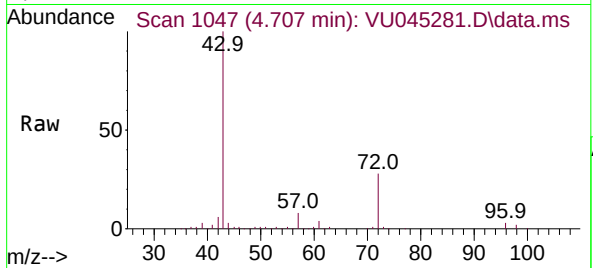




#22  
2-Butanone  
Concen: 87.117 ug/L  
RT: 4.707 min Scan# 1047  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

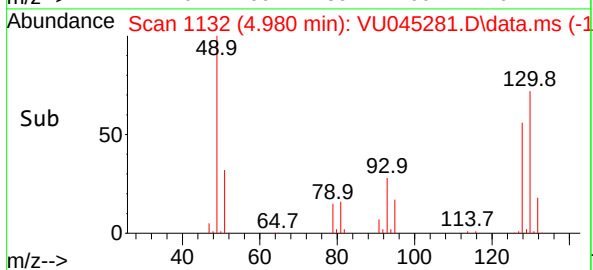
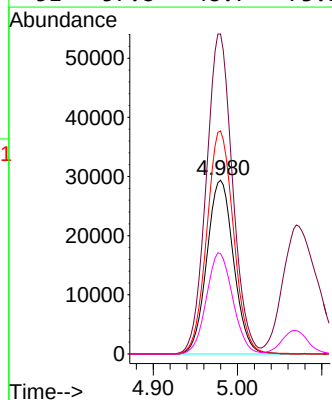
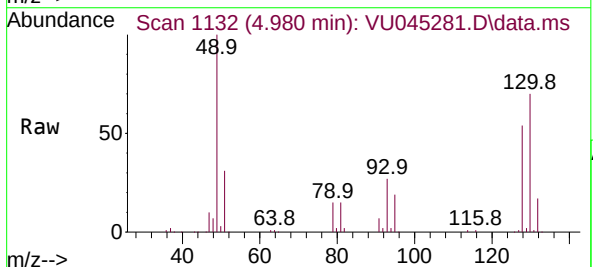
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

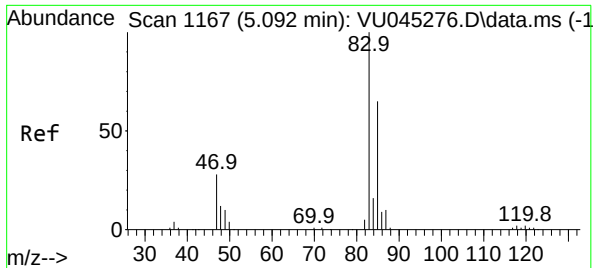
Tgt Ion: 43 Resp: 266200  
Ion Ratio Lower Upper  
43 100  
72 28.0 13.3 39.9



#23  
Bromochloromethane  
Concen: 52.102 ug/L  
RT: 4.980 min Scan# 1132  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 128 Resp: 64794  
Ion Ratio Lower Upper  
128 100  
49 184.1 132.9 246.7  
130 128.3 88.2 163.8  
51 57.8 48.7 73.1

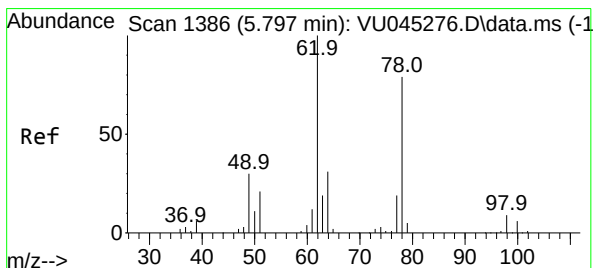
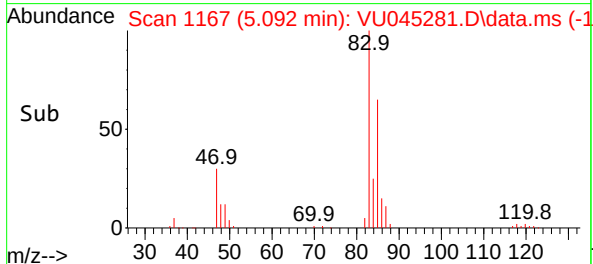
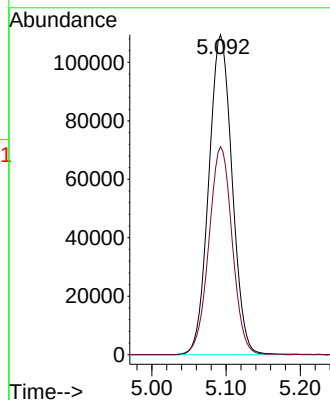
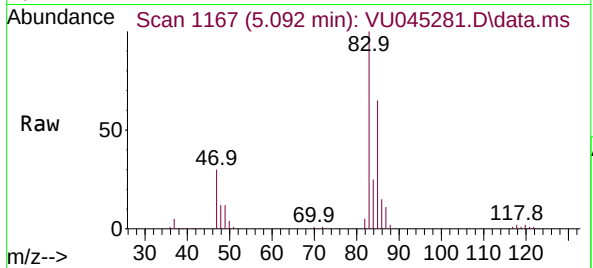




#25  
Chloroform  
Concen: 51.835 ug/L  
RT: 5.092 min Scan# 1167  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

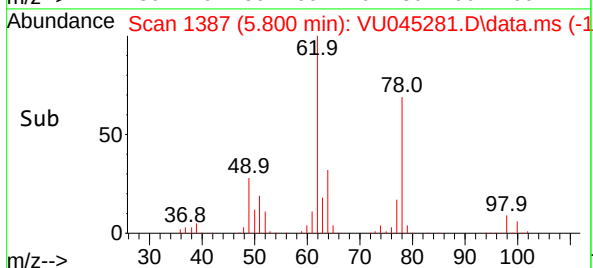
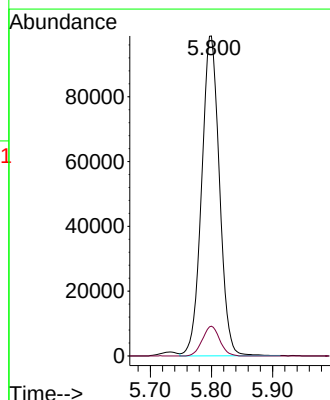
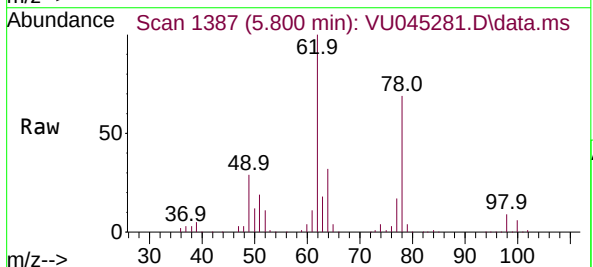
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

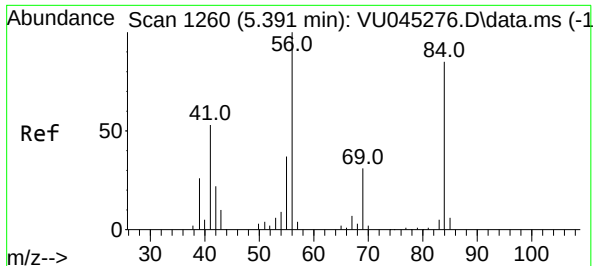
Tgt Ion: 83 Resp: 238665  
Ion Ratio Lower Upper  
83 100  
85 65.0 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 51.771 ug/L  
RT: 5.800 min Scan# 1387  
Delta R.T. 0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 62 Resp: 199369  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.1 10.7





#29

Cyclohexane

Concen: 52.340 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. 0.000 min

Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

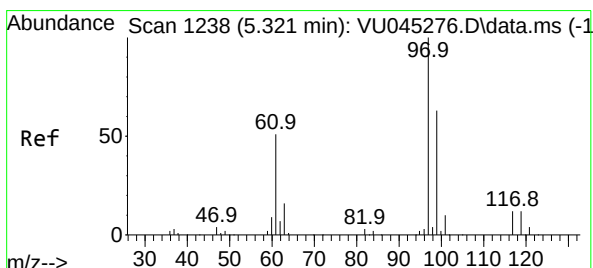
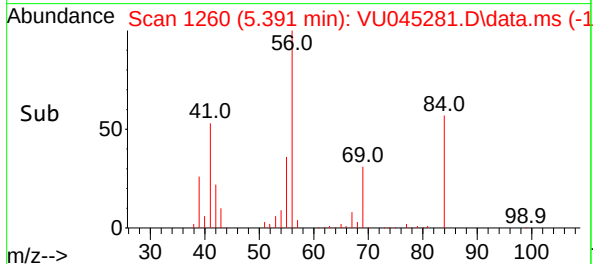
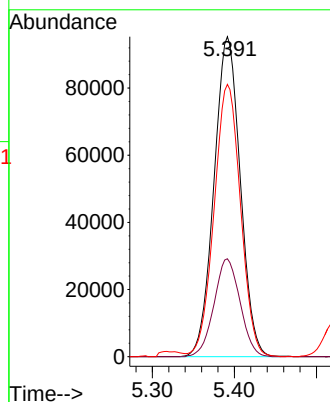
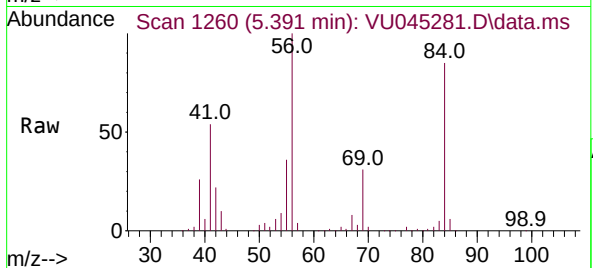
Tgt Ion: 56 Resp: 212123

Ion Ratio Lower Upper

56 100

69 30.3 23.8 35.8

84 85.7 66.8 100.2



#30

1,1,1-Trichloroethane

Concen: 51.436 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

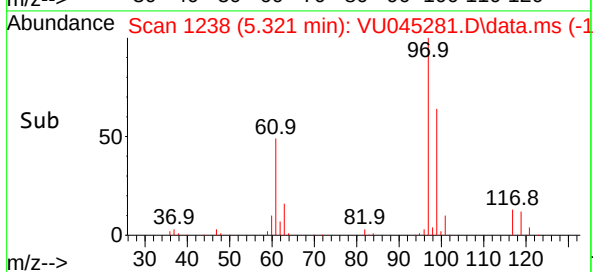
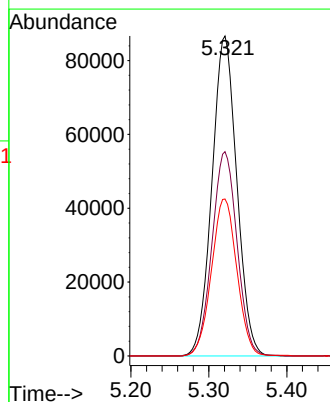
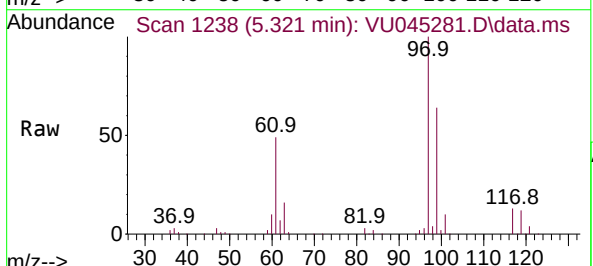
Tgt Ion: 97 Resp: 191975

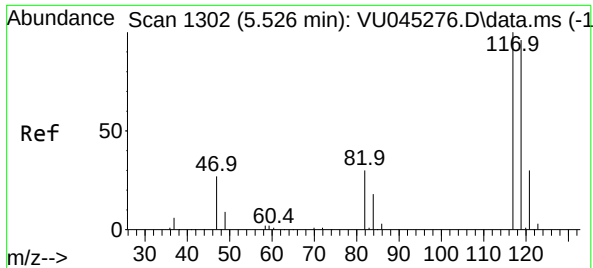
Ion Ratio Lower Upper

97 100

99 64.4 50.6 75.8

61 50.1 41.3 61.9

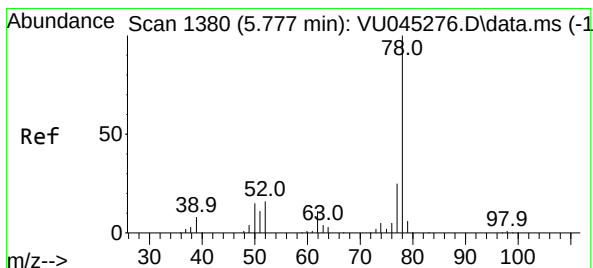
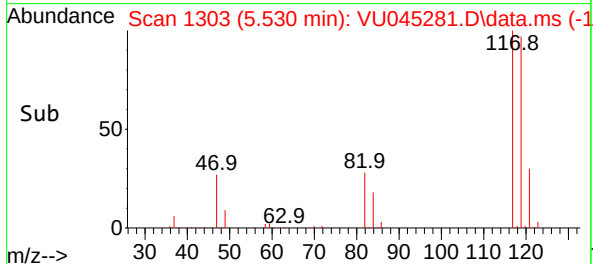
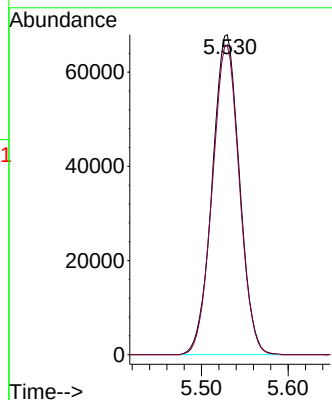
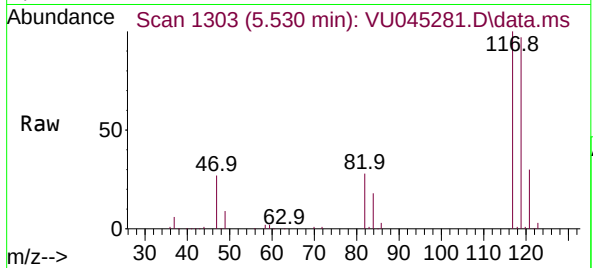




#31  
Carbon tetrachloride  
Concen: 50.266 ug/L  
RT: 5.530 min Scan# 1303  
Delta R.T. 0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

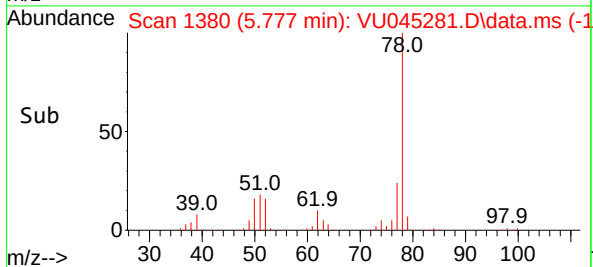
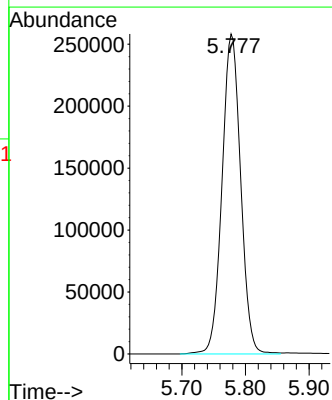
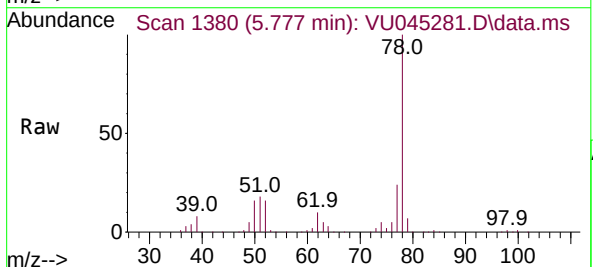
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

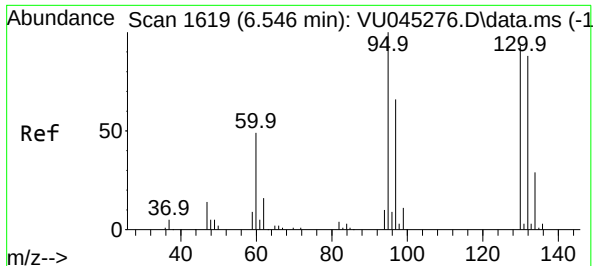
Tgt Ion:117 Resp: 148178  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.7 116.5



#33  
Benzene  
Concen: 52.543 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 78 Resp: 525435

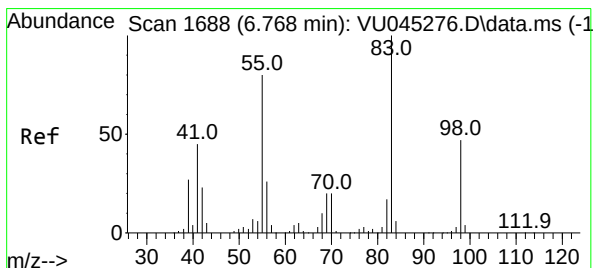
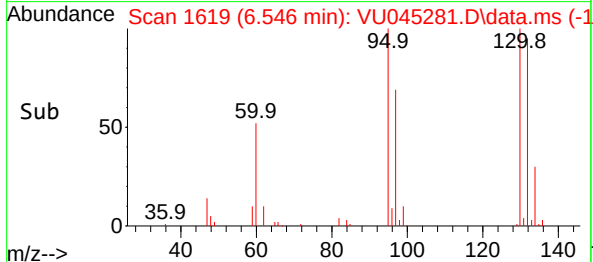
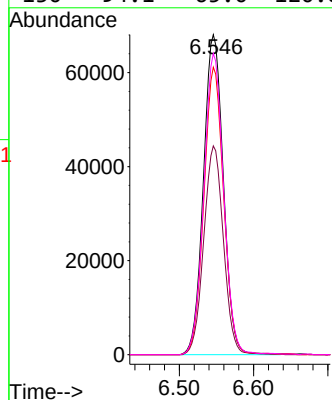
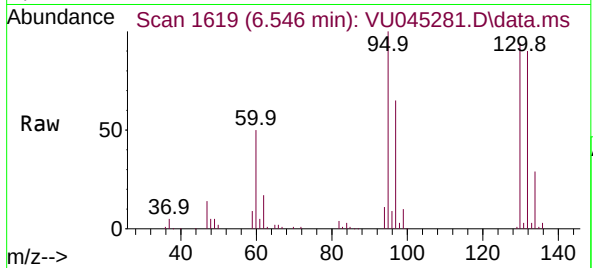




#34  
Trichloroethene  
Concen: 52.714 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

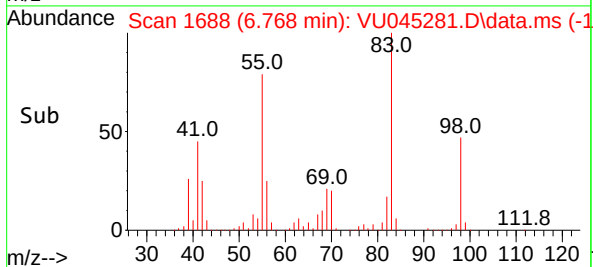
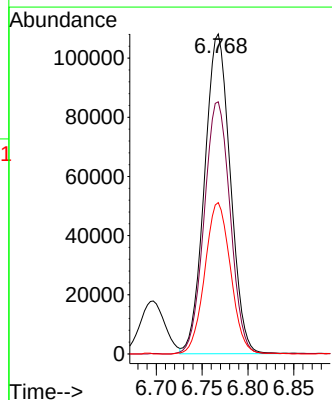
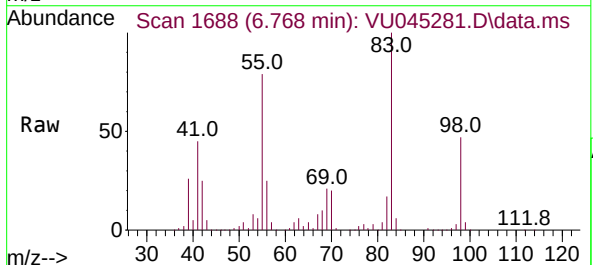
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

Tgt Ion: 95 Resp: 126617  
Ion Ratio Lower Upper  
95 100  
97 65.2 44.4 82.4  
132 89.8 62.9 116.9  
130 94.1 65.0 120.8

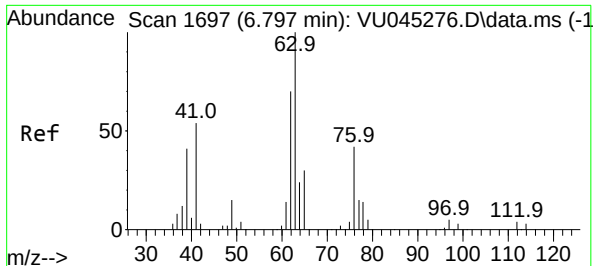


#35  
Methylcyclohexane  
Concen: 52.578 ug/L  
RT: 6.768 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 83 Resp: 211434  
Ion Ratio Lower Upper  
83 100  
55 79.4 65.8 98.6  
98 47.3 37.1 55.7



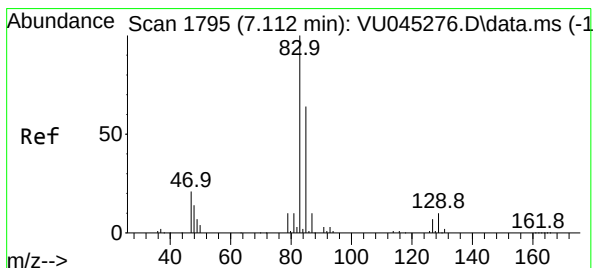
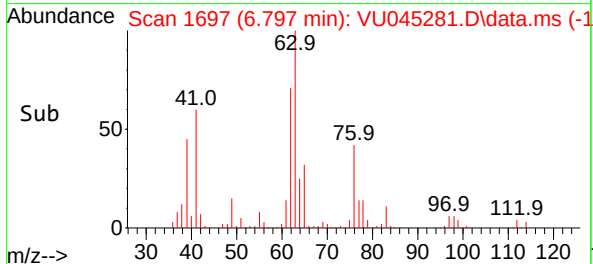
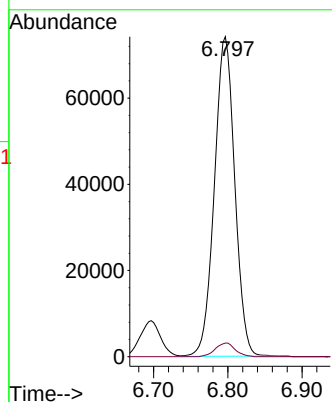
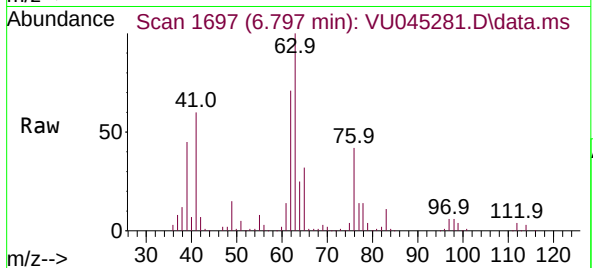




#37  
1,2-Dichloropropane  
Concen: 51.868 ug/L  
RT: 6.797 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

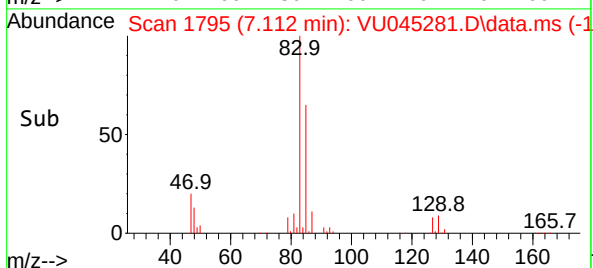
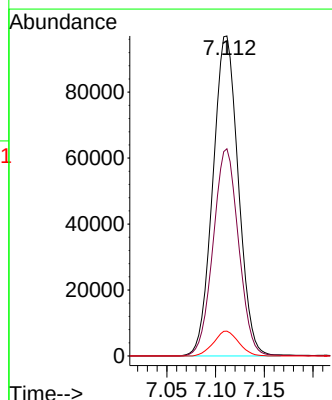
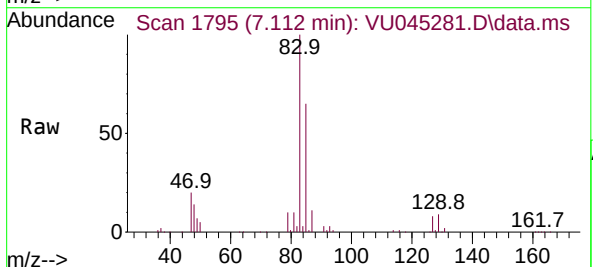
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

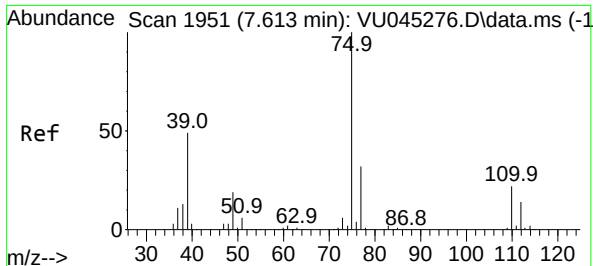
Tgt Ion: 63 Resp: 141223  
Ion Ratio Lower Upper  
63 100  
112 4.2 3.2 4.8



#38  
Bromodichloromethane  
Concen: 52.834 ug/L  
RT: 7.112 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 83 Resp: 176333  
Ion Ratio Lower Upper  
83 100  
85 64.8 44.6 82.8  
127 8.5 6.2 9.2



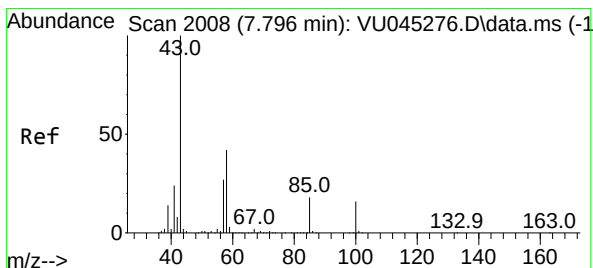
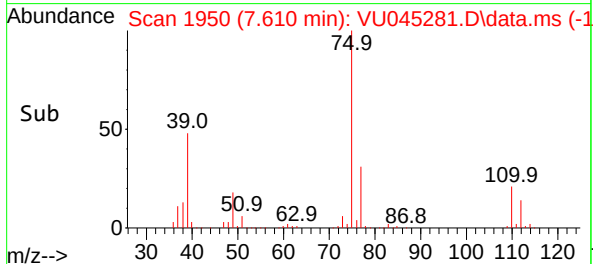
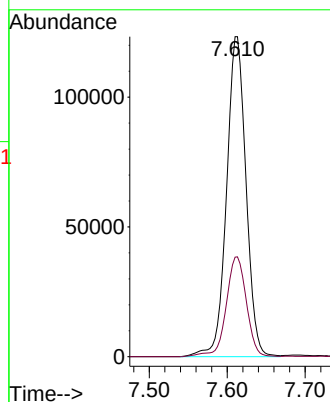
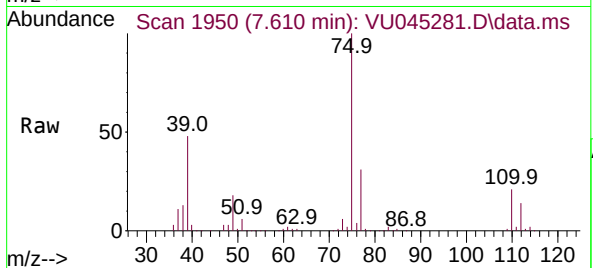


#39

cis-1,3-Dichloropropene  
 Concen: 54.812 ug/L  
 RT: 7.610 min Scan# 1950  
 Delta R.T. -0.003 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050102

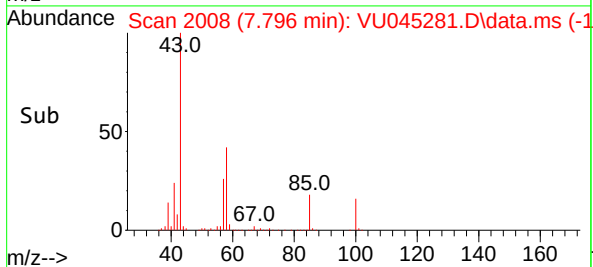
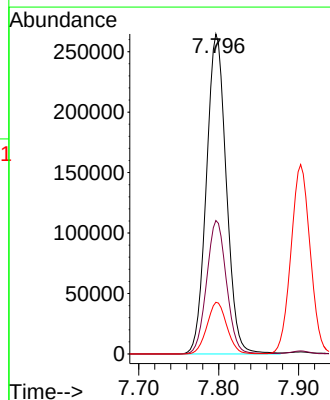
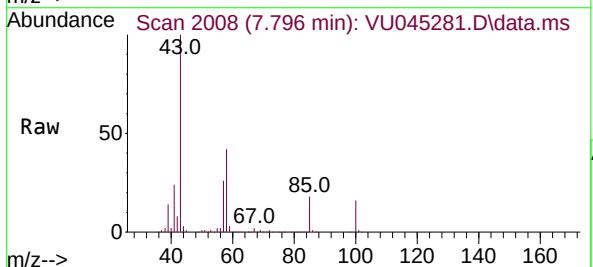
Tgt Ion: 75 Resp: 213540  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 22.4 41.6

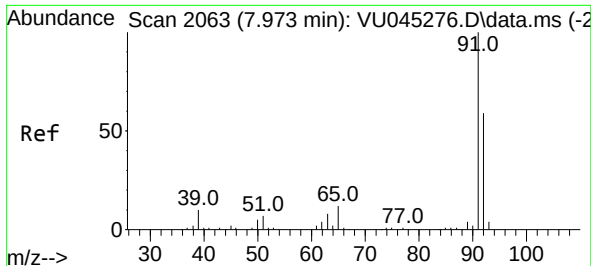


#40

4-Methyl-2-pentanone  
 Concen: 100.667 ug/L  
 RT: 7.796 min Scan# 2008  
 Delta R.T. 0.000 min  
 Lab File: VU045281.D  
 Acq: 11 Oct 2021 14:49

Tgt Ion: 43 Resp: 457864  
 Ion Ratio Lower Upper  
 43 100  
 58 41.6 31.8 47.8  
 100 16.1 11.8 17.6

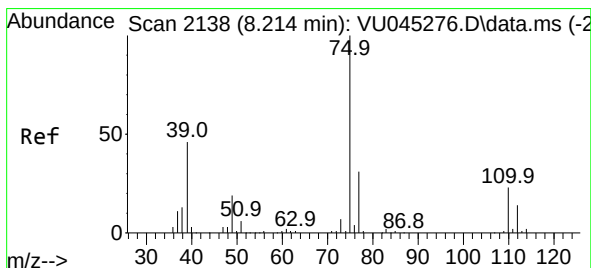
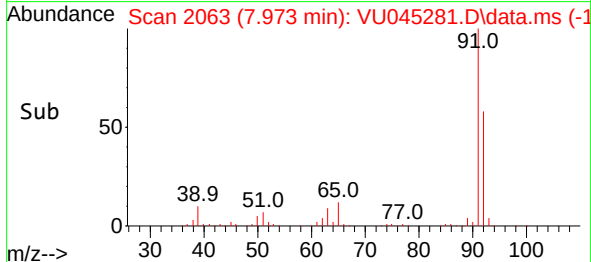
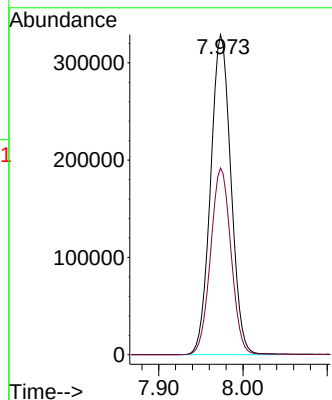
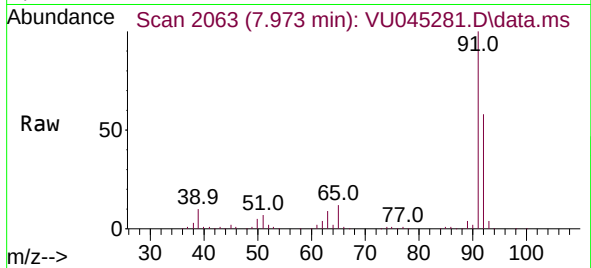




#42  
Toluene  
Concen: 54.372 ug/L  
RT: 7.973 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

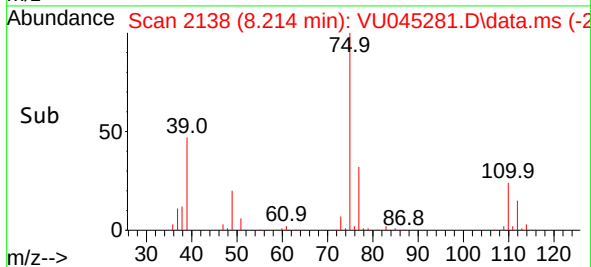
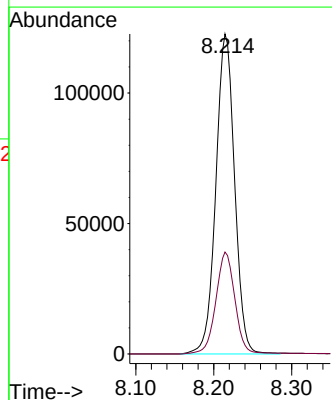
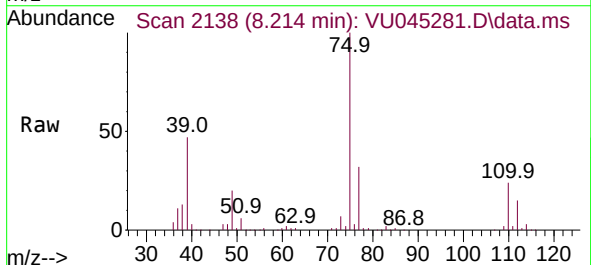
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MSVOA\_U  
ClientSampleId :  
VSTD050102

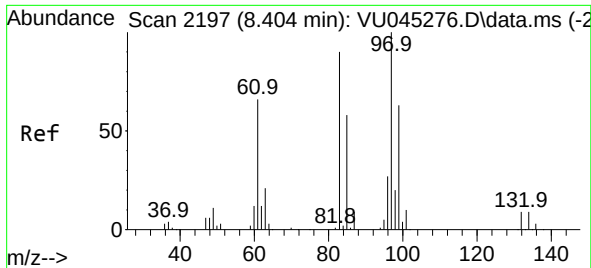
Tgt Ion: 91 Resp: 552456  
Ion Ratio Lower Upper  
91 100  
92 58.4 40.5 75.1



#44  
trans-1,3-Dichloropropene  
Concen: 55.327 ug/L  
RT: 8.214 min Scan# 2138  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 75 Resp: 204954  
Ion Ratio Lower Upper  
75 100  
77 31.9 21.7 40.3

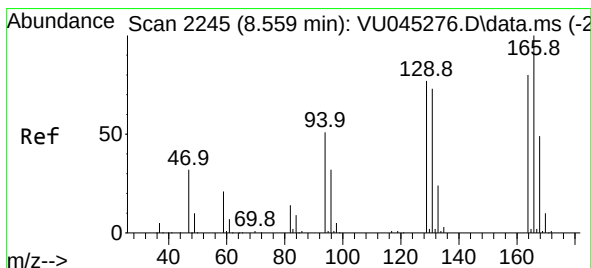
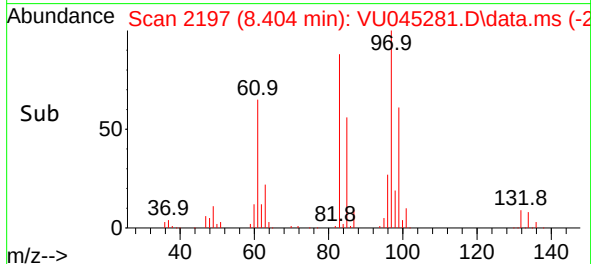
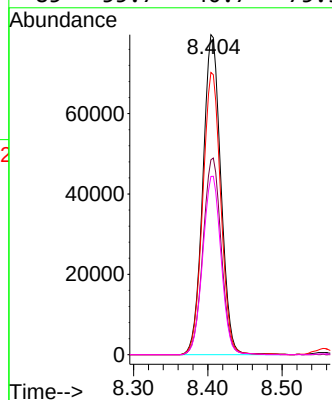
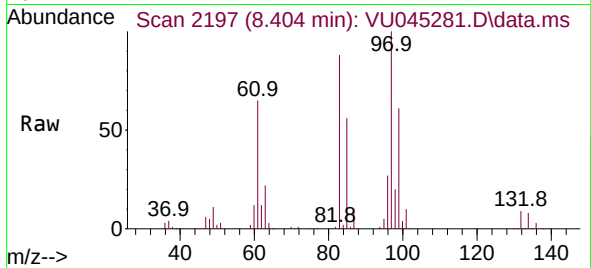




#45  
1,1,2-Trichloroethane  
Concen: 54.314 ug/L  
RT: 8.404 min Scan# 2197  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

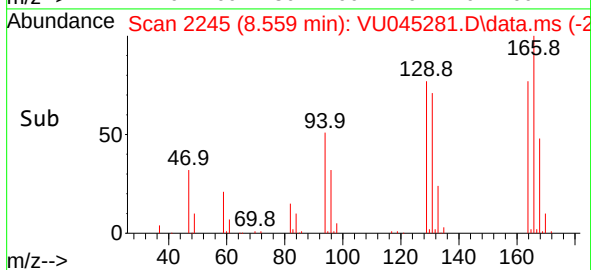
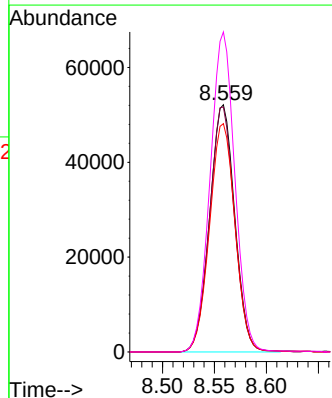
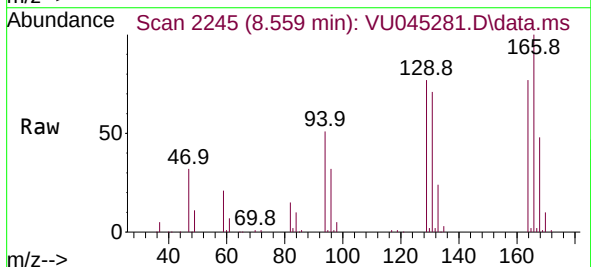
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

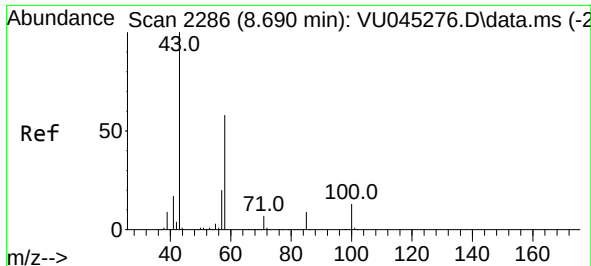
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 134020 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 60.9  | 43.7  | 81.1   |
| 83       | 88.2  | 61.9  | 115.1  |
| 85       | 55.7  | 40.7  | 75.5   |



#46  
Tetrachloroethene  
Concen: 50.988 ug/L  
RT: 8.559 min Scan# 2245  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 87537 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.1  | 69.8  | 129.6 |
| 131      | 92.4  | 66.4  | 123.2 |
| 166      | 129.5 | 91.1  | 169.3 |

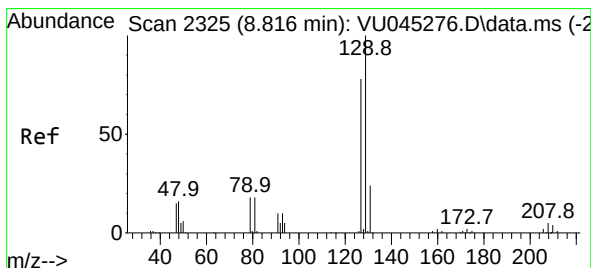
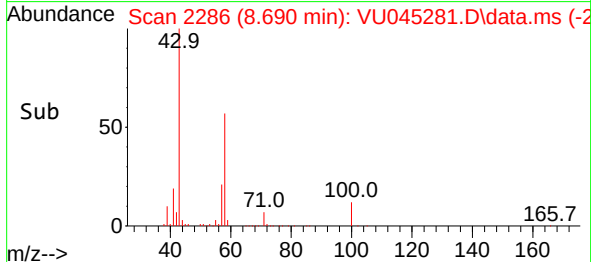
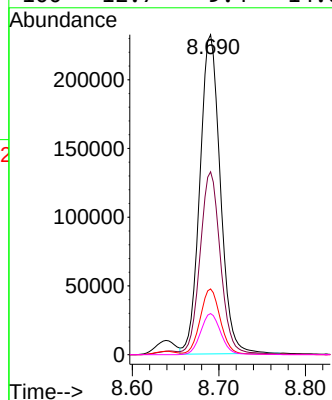
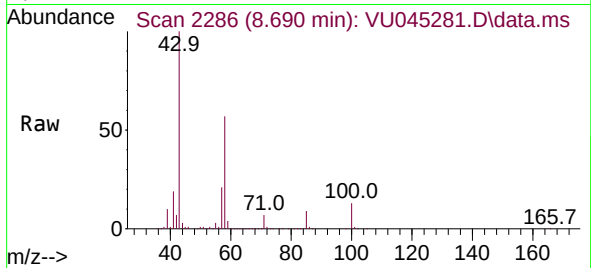




#48  
2-Hexanone  
Concen: 94.397 ug/L  
RT: 8.690 min Scan# 2286  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

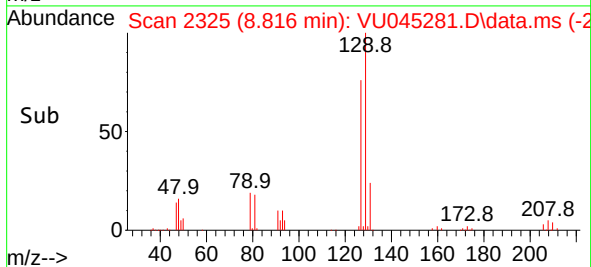
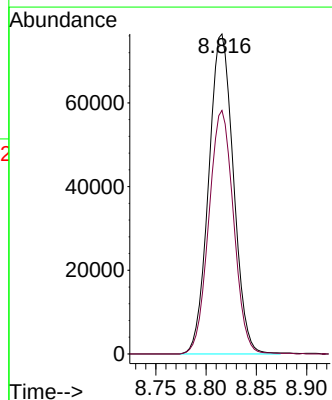
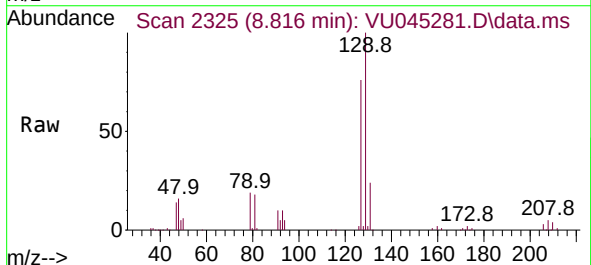
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

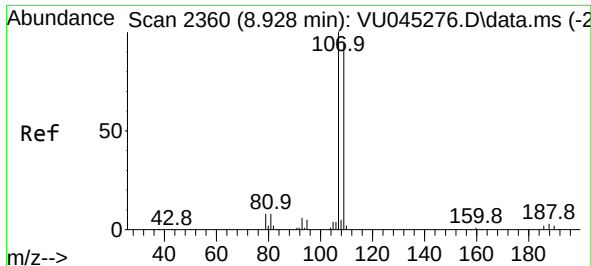
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 380731 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 57.1  | 44.9  | 67.3   |
| 57       | 20.2  | 15.5  | 23.3   |
| 100      | 12.7  | 9.4   | 14.0   |



#49  
Dibromochloromethane  
Concen: 53.668 ug/L  
RT: 8.816 min Scan# 2325  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 130968 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 76.1  | 54.3  | 100.8  |





#50

1,2-Dibromoethane

Concen: 53.862 ug/L

RT: 8.928 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

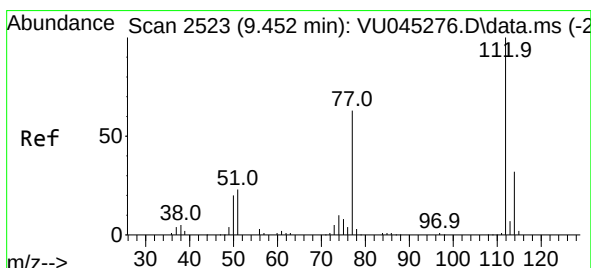
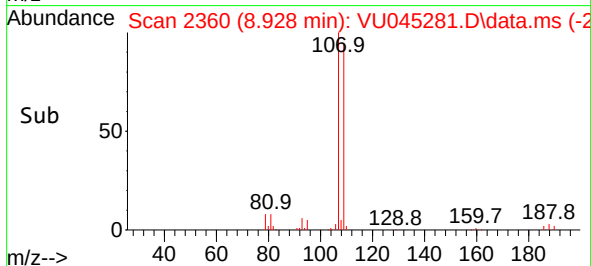
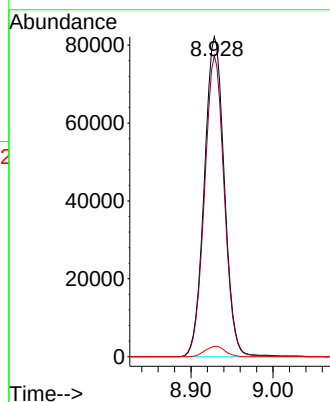
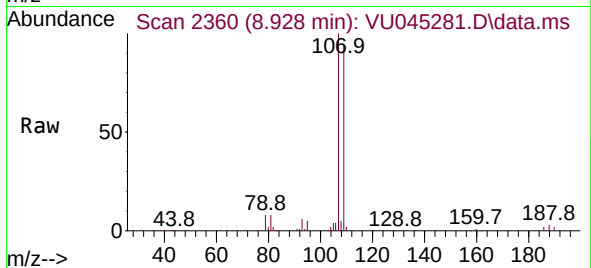
Instrument :

MSVOA\_U

ClientSampleId :

VSTD050102

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 139150 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 109      | 94.0  | 65.5  | 121.6  |
| 188      | 3.2   | 2.6   | 3.8    |



#51

Chlorobenzene

Concen: 54.100 ug/L

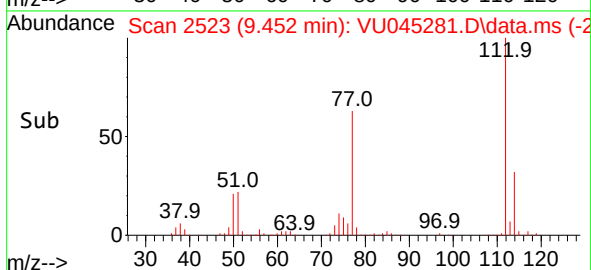
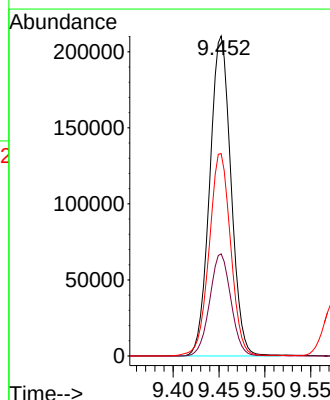
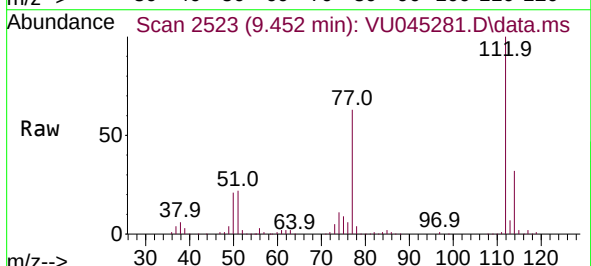
RT: 9.452 min Scan# 2523

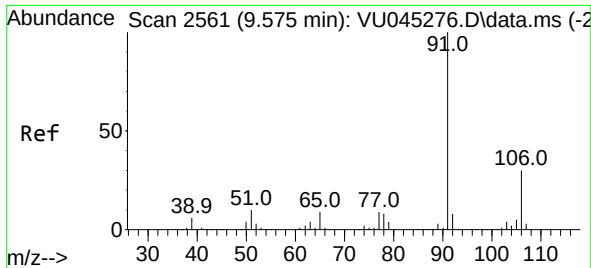
Delta R.T. 0.000 min

Lab File: VU045281.D

Acq: 11 Oct 2021 14:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 339357 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.9  | 22.5  | 41.9   |
| 77       | 63.2  | 50.6  | 75.8   |

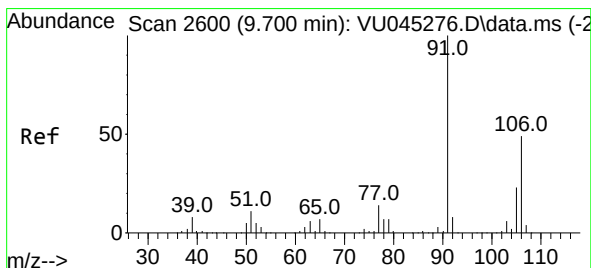
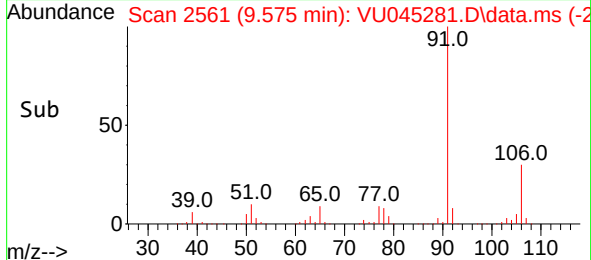
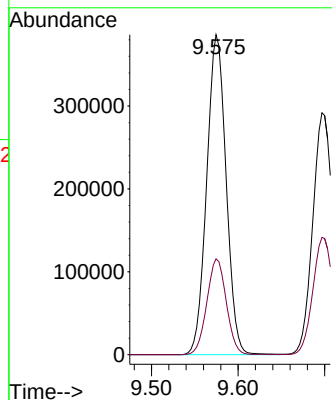
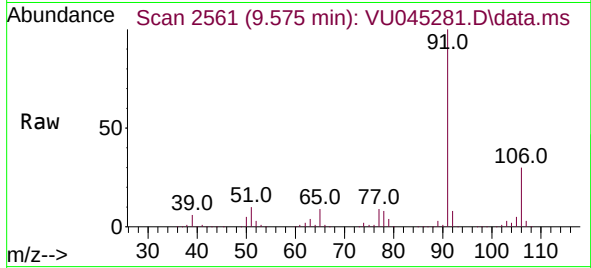




#52  
Ethylbenzene  
Concen: 55.997 ug/L  
RT: 9.575 min Scan# 2561  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

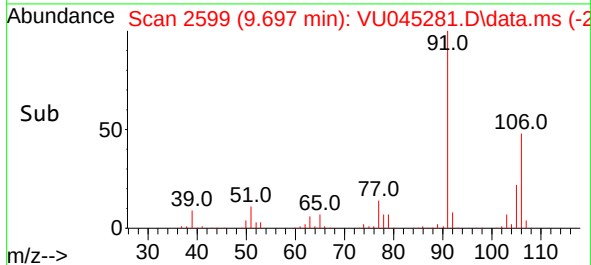
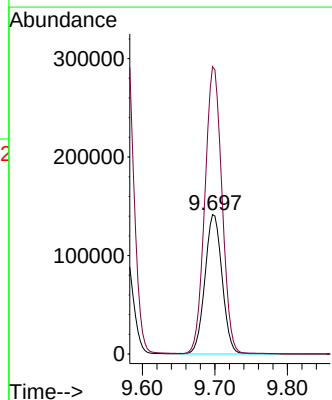
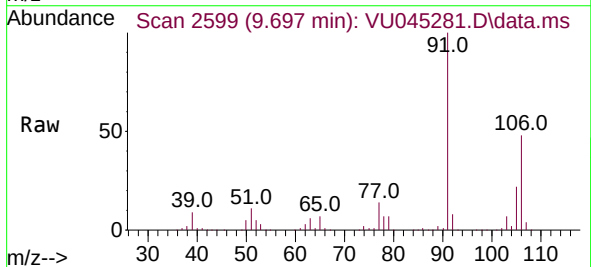
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

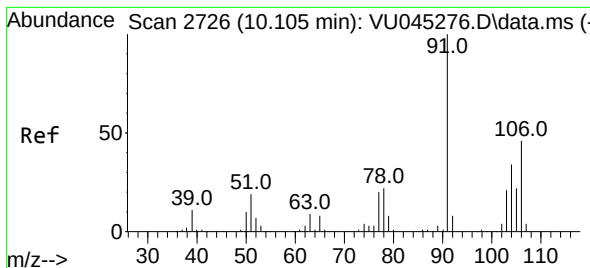
Tgt Ion: 91 Resp: 601056  
Ion Ratio Lower Upper  
91 100  
106 29.9 21.2 39.4



#53  
m,p-Xylene  
Concen: 57.304 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. -0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:106 Resp: 233010  
Ion Ratio Lower Upper  
106 100  
91 206.2 146.7 272.4

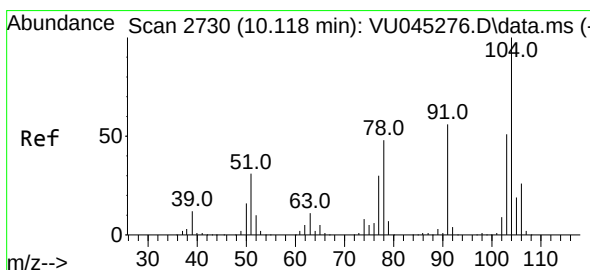
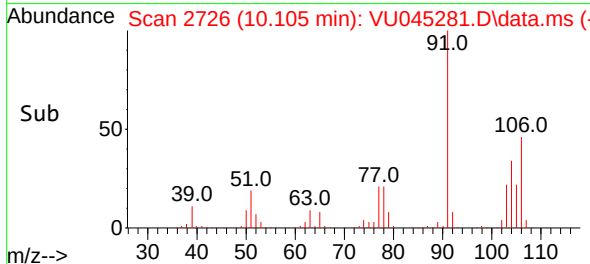
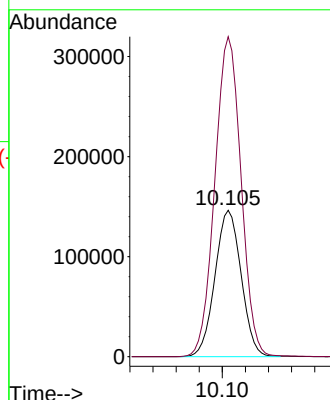
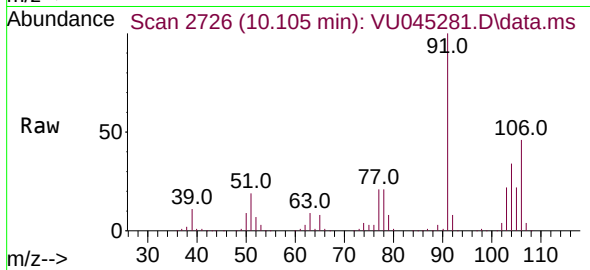




#54  
o-xylene  
Concen: 57.650 ug/L  
RT: 10.105 min Scan# 2726  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

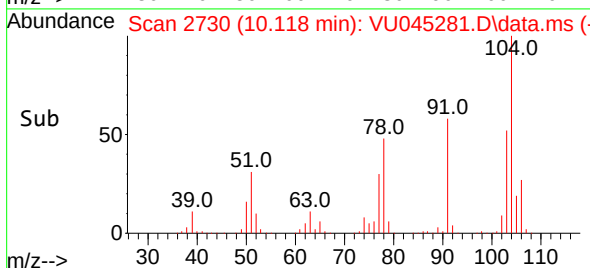
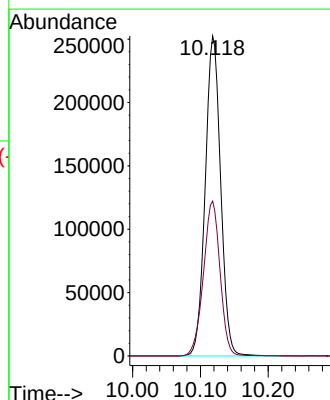
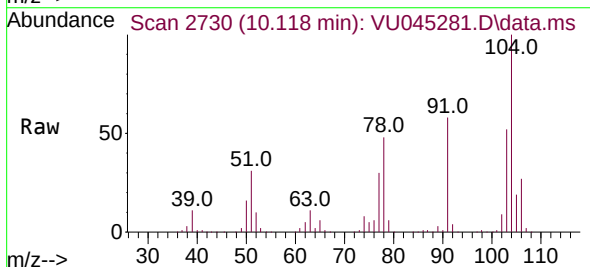
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

Tgt Ion:106 Resp: 230353  
Ion Ratio Lower Upper  
106 100  
91 218.6 152.9 283.9

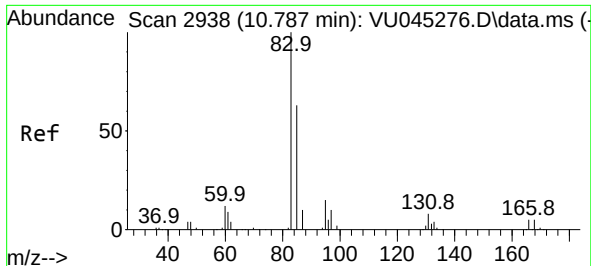


#55  
Styrene  
Concen: 57.968 ug/L  
RT: 10.118 min Scan# 2730  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:104 Resp: 398320  
Ion Ratio Lower Upper  
104 100  
78 48.4 33.3 61.9



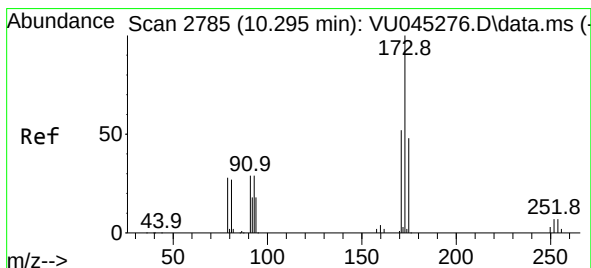
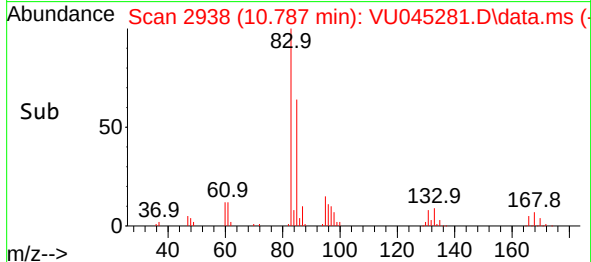
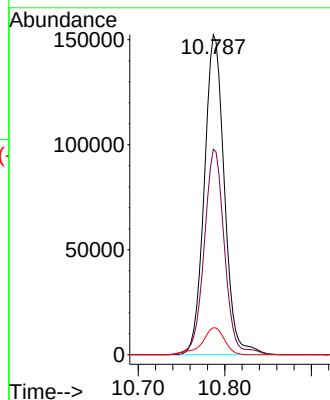
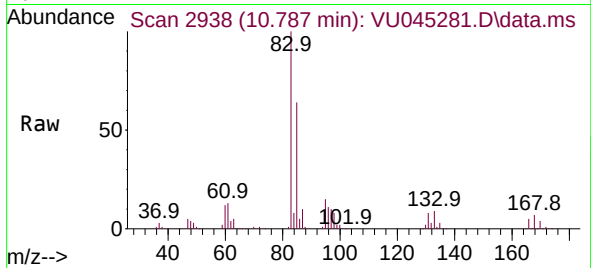




#57  
1,1,2,2-Tetrachloroethane  
Concen: 51.842 ug/L  
RT: 10.787 min Scan# 2938  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

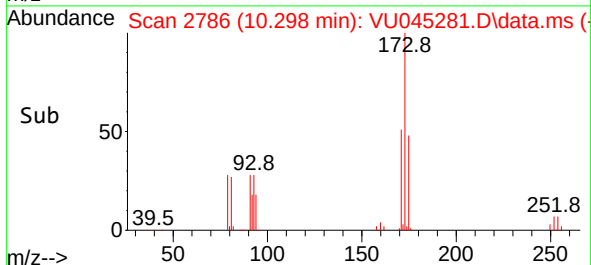
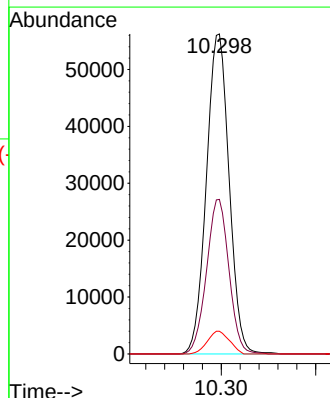
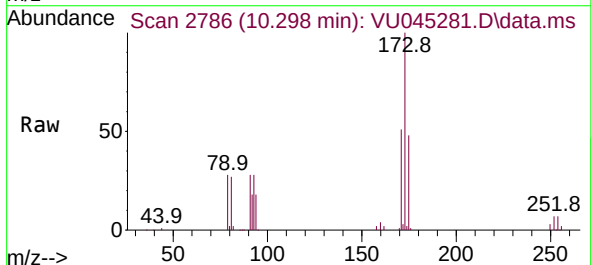
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

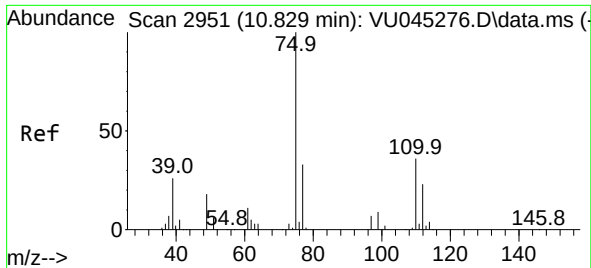
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 244935 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.2  | 45.1  | 83.7   |
| 131      | 8.4   | 6.9   | 10.3   |



#59  
Bromoform  
Concen: 55.141 ug/L  
RT: 10.298 min Scan# 2786  
Delta R.T. 0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 93754 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 47.6  | 38.4  | 57.6  |
| 254      | 6.9   | 5.3   | 7.9   |

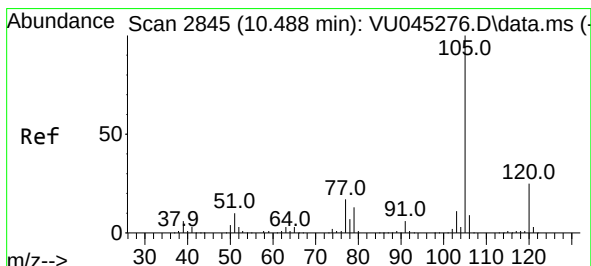
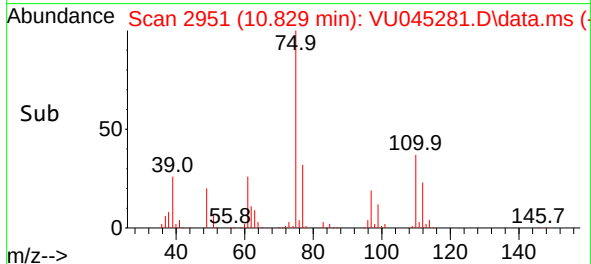
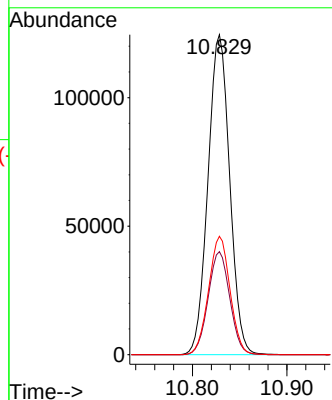
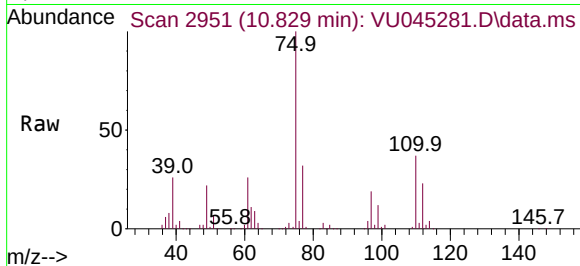




#60  
1,2,3-Trichloropropane  
Concen: 52.412 ug/L  
RT: 10.829 min Scan# 2951  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

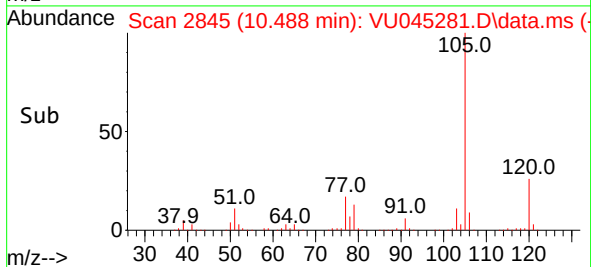
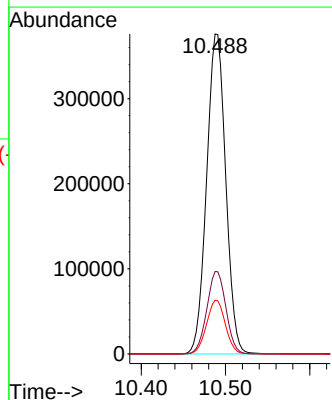
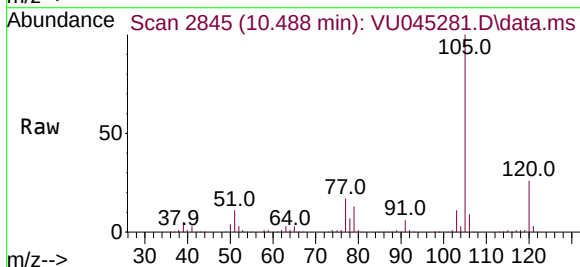
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

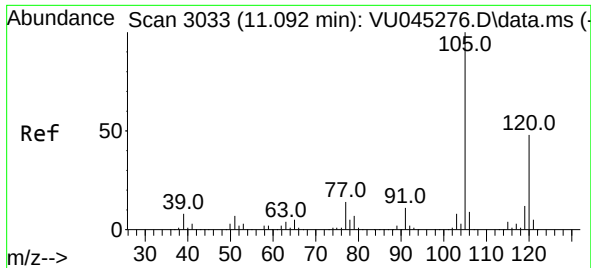
Tgt Ion: 75 Resp: 198734  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.5 38.3  
110 36.5 29.0 43.4



#61  
Isopropylbenzene  
Concen: 59.136 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 105 Resp: 593314  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.5 30.7  
77 16.6 13.5 20.3

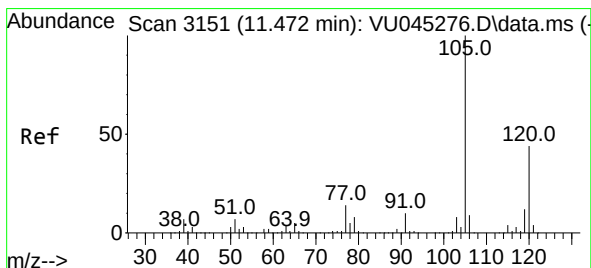
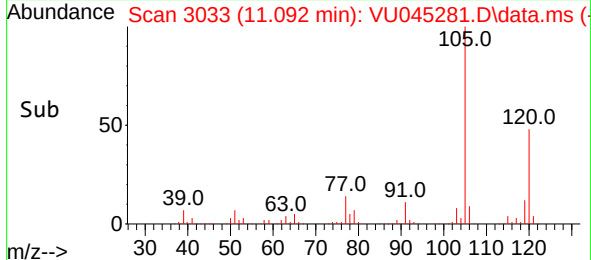
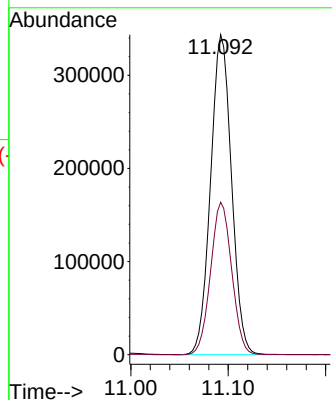
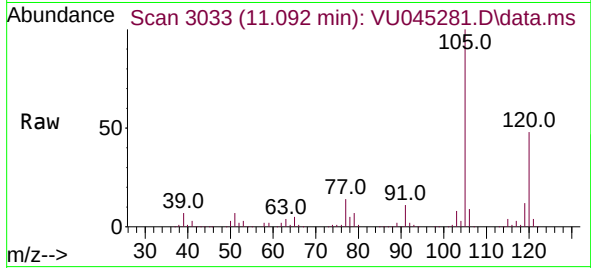




#62  
1,3,5-Trimethylbenzene  
Concen: 61.167 ug/L  
RT: 11.092 min Scan# 3033  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

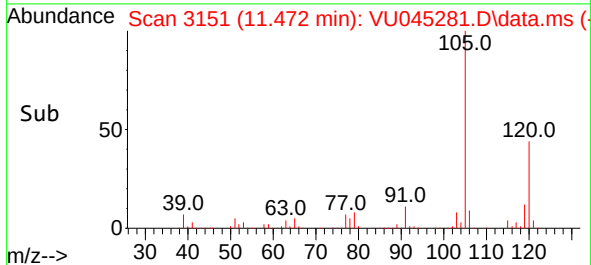
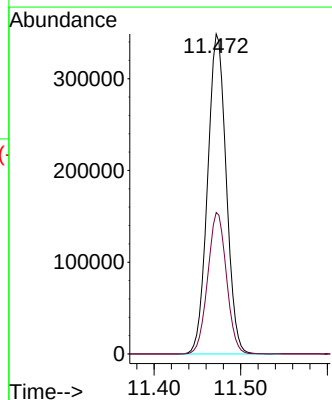
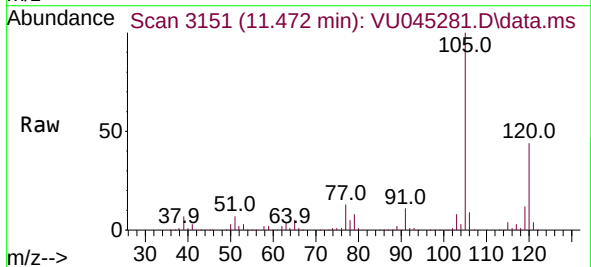
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

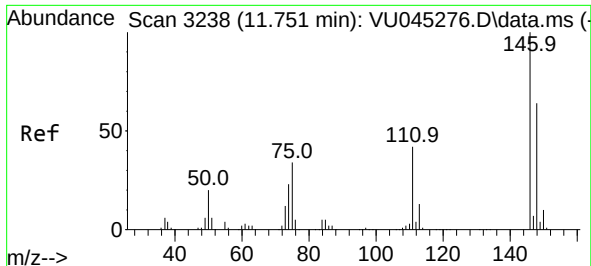
Tgt Ion:105 Resp: 512514  
Ion Ratio Lower Upper  
105 100  
120 48.1 38.8 58.2



#63  
1,2,4-Trimethylbenzene  
Concen: 60.689 ug/L  
RT: 11.472 min Scan# 3151  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:105 Resp: 520723  
Ion Ratio Lower Upper  
105 100  
120 44.4 35.7 53.5

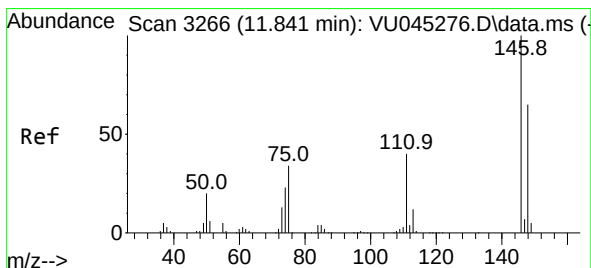
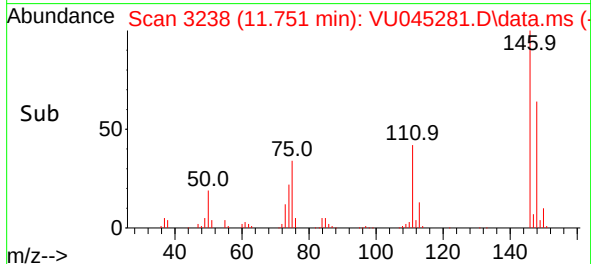
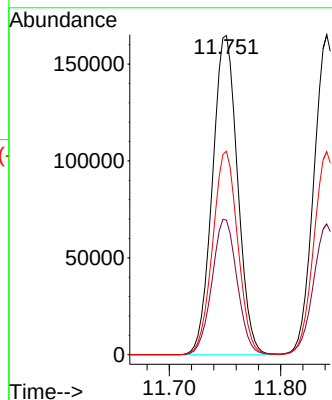
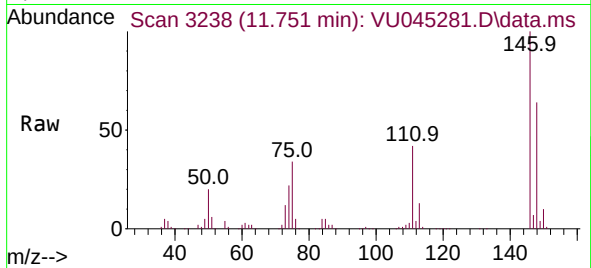




#64  
1,3-Dichlorobenzene  
Concen: 55.729 ug/L  
RT: 11.751 min Scan# 3238  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

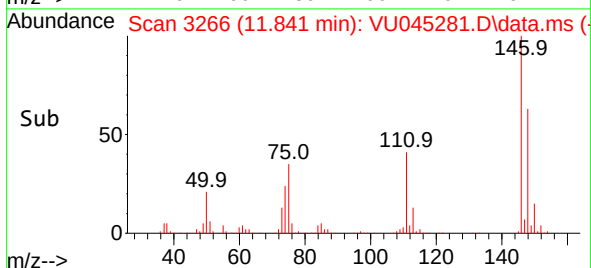
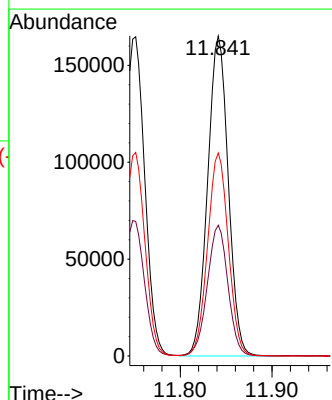
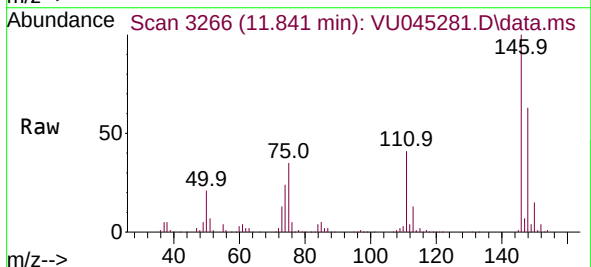
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

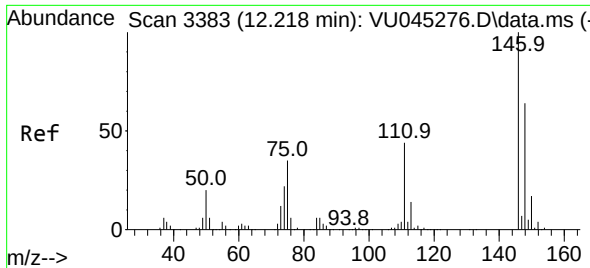
Tgt Ion:146 Resp: 258397  
Ion Ratio Lower Upper  
146 100  
111 42.1 29.0 53.8  
148 63.8 44.8 83.2



#65  
1,4-Dichlorobenzene  
Concen: 54.253 ug/L  
RT: 11.841 min Scan# 3266  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:146 Resp: 258091  
Ion Ratio Lower Upper  
146 100  
111 40.9 28.5 52.9  
148 63.4 45.5 84.5

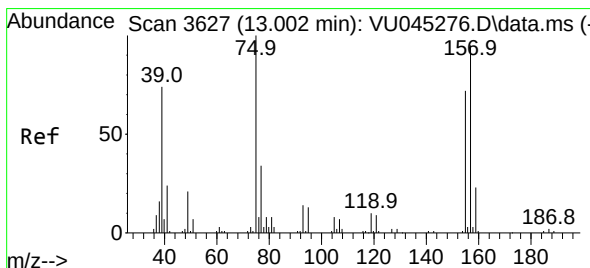
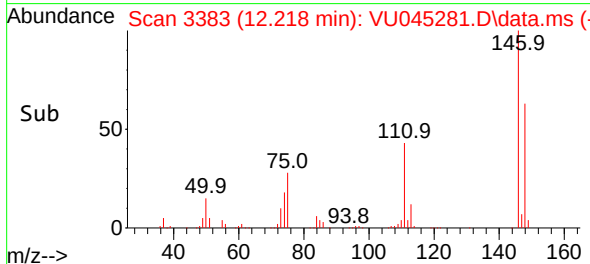
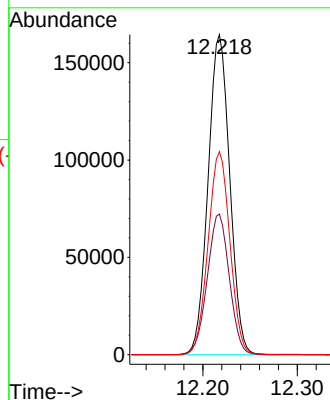
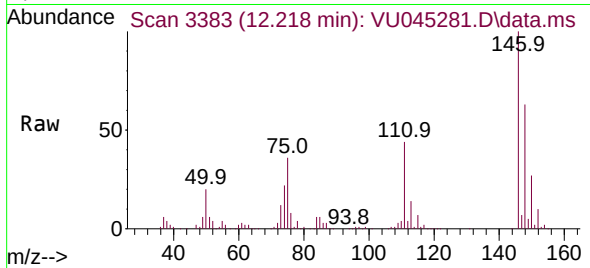




#67  
1,2-Dichlorobenzene  
Concen: 54.972 ug/L  
RT: 12.218 min Scan# 3383  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

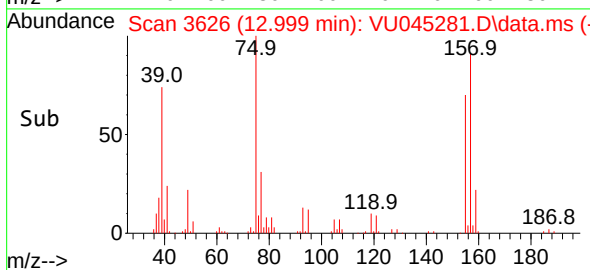
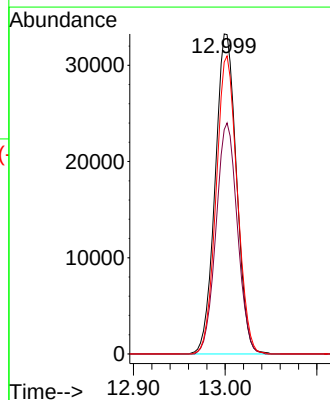
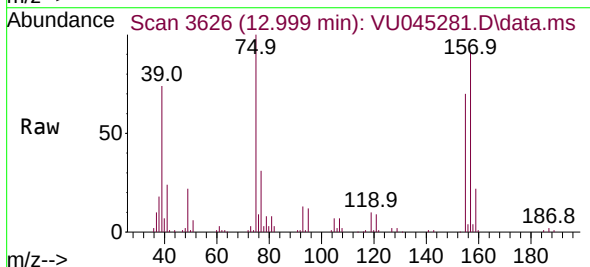
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

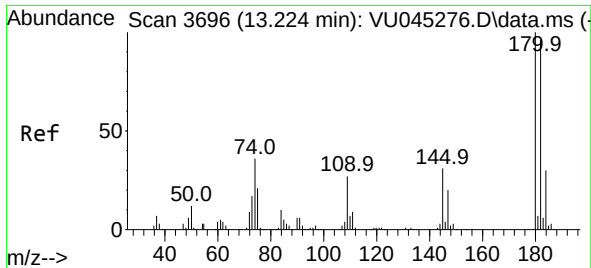
Tgt Ion:146 Resp: 261661  
Ion Ratio Lower Upper  
146 100  
111 43.9 34.7 52.1  
148 63.5 51.0 76.6



#68  
1,2-Dibromo-3-chloropropane  
Concen: 49.310 ug/L  
RT: 12.999 min Scan# 3626  
Delta R.T. -0.003 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion: 75 Resp: 53732  
Ion Ratio Lower Upper  
75 100  
155 70.1 58.5 87.7  
157 95.1 77.7 116.5



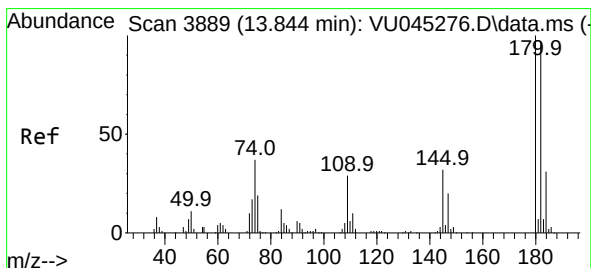
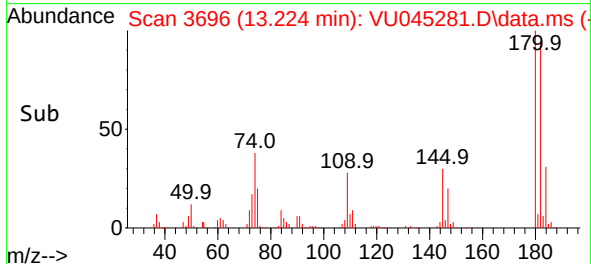
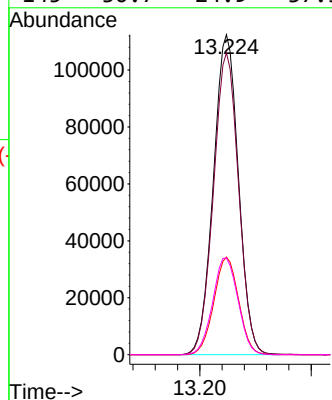
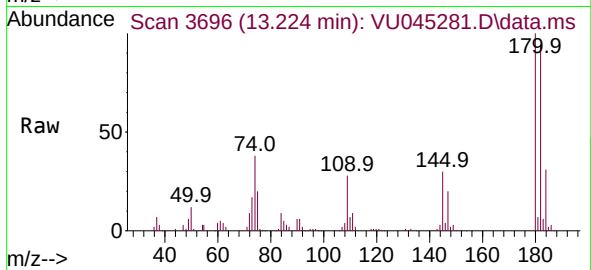


#69  
1,3,5-Trichlorobenzene  
Concen: 54.492 ug/L  
RT: 13.224 min Scan# 3696  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

Tgt Ion:180 Resp: 175341

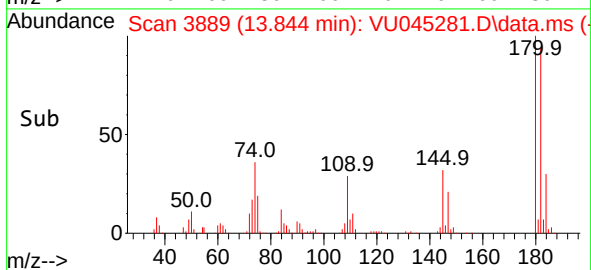
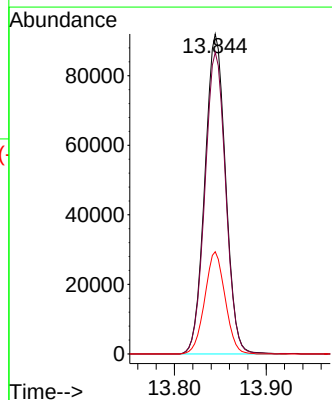
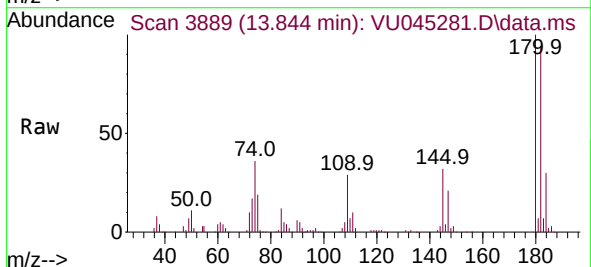
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.6  | 76.8  | 115.2 |
| 184 | 30.1  | 24.4  | 36.6  |
| 145 | 30.7  | 24.9  | 37.3  |

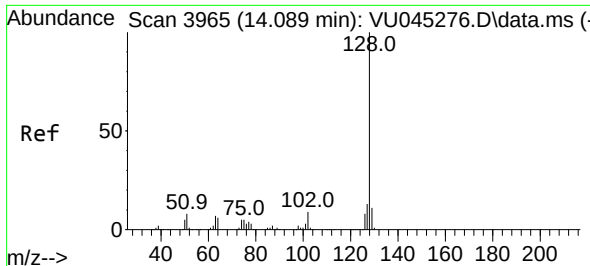


#70  
1,2,4-trichlorobenzene  
Concen: 54.024 ug/L  
RT: 13.844 min Scan# 3889  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:180 Resp: 144455

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.7  | 76.2  | 114.2 |
| 145 | 31.4  | 25.4  | 38.0  |

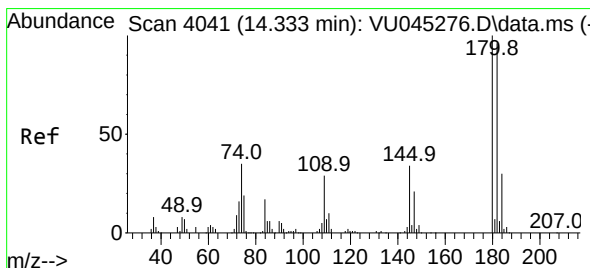
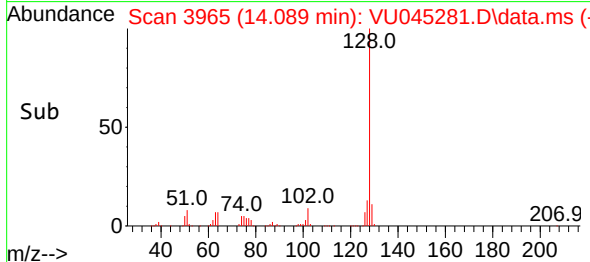
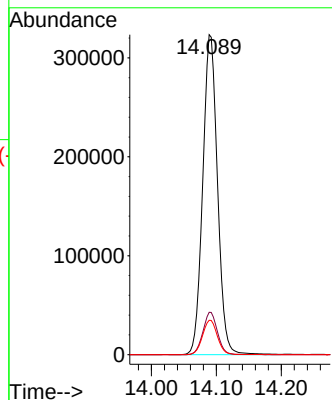
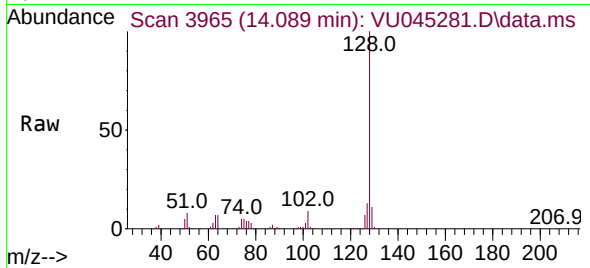




#71  
Naphthalene  
Concen: 55.263 ug/L  
RT: 14.089 min Scan# 3965  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050102

Tgt Ion:128 Resp: 512065  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.4 15.6  
129 10.9 8.8 13.2



#72  
1,2,3-Trichlorobenzene  
Concen: 52.746 ug/L  
RT: 14.333 min Scan# 4041  
Delta R.T. 0.000 min  
Lab File: VU045281.D  
Acq: 11 Oct 2021 14:49

Tgt Ion:180 Resp: 144302  
Ion Ratio Lower Upper  
180 100  
182 96.0 76.8 115.2  
145 33.4 26.5 39.7

