

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110421\  
 Data File : VU045545.D  
 Acq On : 04 Nov 2021 01:08  
 Operator : SY/MD  
 Sample : M4472-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 05 13:58:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U102821W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 29 11:09:42 2021  
 Response via : Initial Calibration

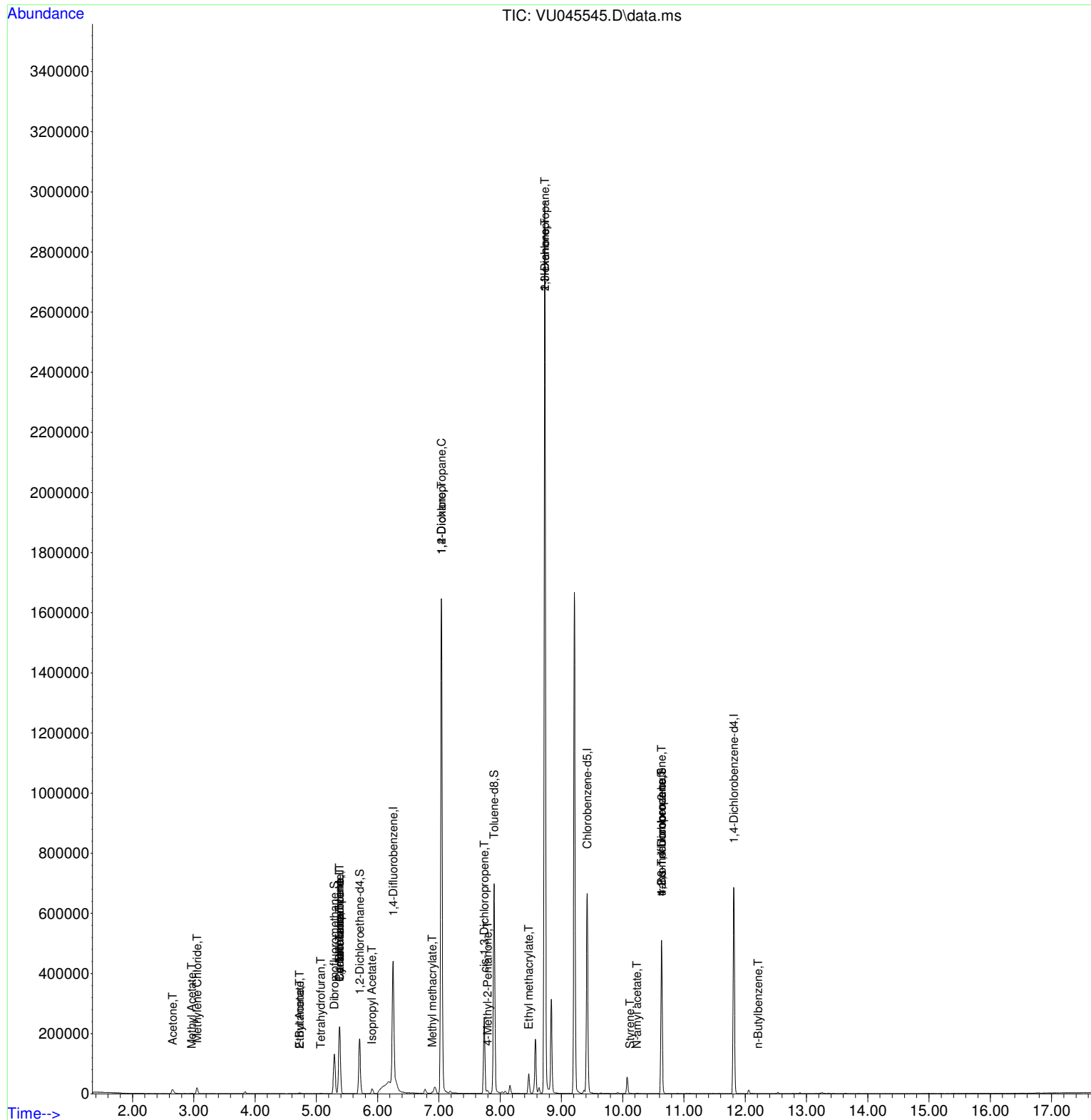
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.378          | 168  | 164516     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253          | 114  | 338707     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.420          | 117  | 364971     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.816         | 152  | 173426     | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.706          | 65   | 126223     | 47.13   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.26%  |        |          |
| 35) Dibromofluoromethane      | 5.295          | 113  | 86635      | 40.23   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 80.46%  |        |          |
| 50) Toluene-d8                | 7.899          | 98   | 465675     | 55.14   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 110.28% |        |          |
| 62) 4-Bromofluorobenzene      | 10.635         | 95   | 179913     | 55.91   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 111.82% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 16) Acetone                   | 2.652          | 43   | 24261      | 19.95   | ug/l   | 91       |
| 18) Methyl Acetate            | 2.964          | 43   | 1027       | 0.23    | ug/l # | 81       |
| 20) Methylene Chloride        | 3.054          | 84   | 9951       | 4.11    | ug/l   | 96       |
| 25) 2-Butanone                | 4.726          | 43   | 4958       | 2.70    | ug/l   | 98       |
| 29) Tetrahydrofuran           | 5.070          | 42   | 866        | 0.73    | ug/l # | 79       |
| 31) Cyclohexane               | 5.378          | 56   | 2875       | 0.72    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.378          | 75   | 12247      | 3.80    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.726          | 43   | 4958       | 1.27    | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 5.378          | 117  | 15010      | 5.34    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 5.906          | 43   | 18785      | 3.19    | ug/l # | 90       |
| 45) 1,2-Dichloropropane       | 7.041          | 63   | 1947       | 0.76    | ug/l # | 43       |
| 48) Methyl methacrylate       | 6.893          | 41   | 7436       | 2.67    | ug/l # | 13       |
| 49) 1,4-Dioxane               | 7.041          | 88   | 196        | 2.76    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.793          | 43   | 6672       | 1.75    | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 7.739          | 75   | 46861      | 11.73   | ug/l # | 58       |
| 56) Ethyl methacrylate        | 8.468          | 69   | 182        | 1.68    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 8.729          | 76   | 30462      | 7.12    | ug/l # | 43       |
| 59) 2-Hexanone                | 8.729          | 43   | 387937     | 131.64  | ug/l # | 48       |
| 70) Styrene                   | 10.118         | 104  | 158        | 0.99    | ug/l # | 25       |
| 74) N-amyl acetate            | 10.234         | 43   | 859        | 1.29    | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 10.635         | 75   | 90608      | 19.61   | ug/l # | 42       |
| 81) trans-1,4-Dichloro-2-b... | 10.635         | 75   | 90608      | 54.52   | ug/l # | 12       |
| 89) n-Butylbenzene            | 12.211         | 91   | 201        | 0.96    | ug/l # | 63       |

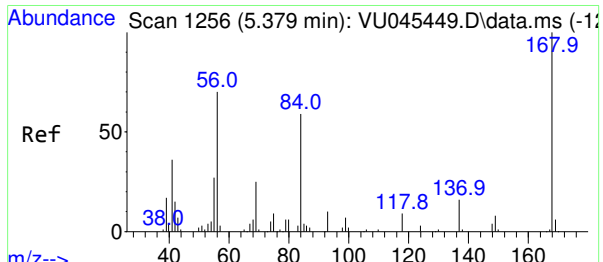
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 05 13:58:17 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U102821W.M  
Quant Title : SW846 8260  
QLast Update : Fri Oct 29 11:09:42 2021  
Response via : Initial Calibration

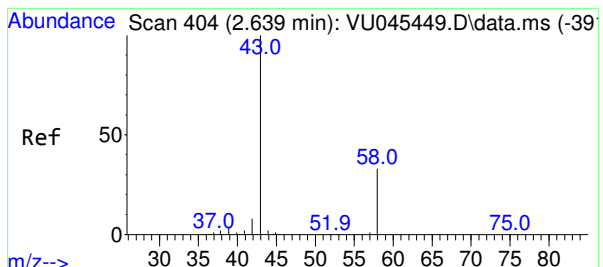
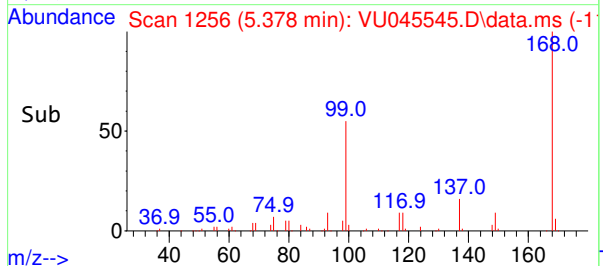
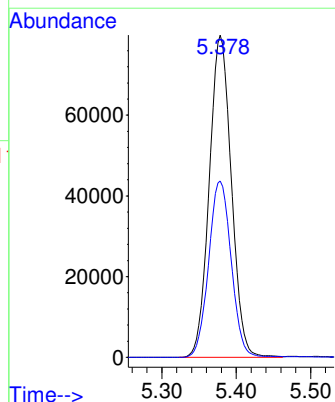
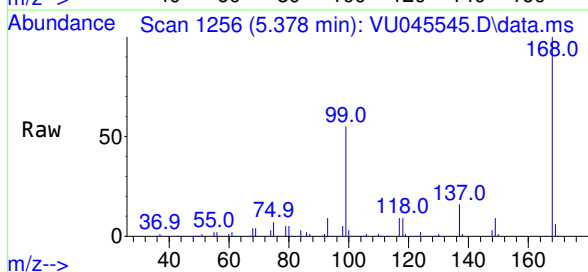




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.378 min Scan# 1  
Delta R.T. -0.001 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

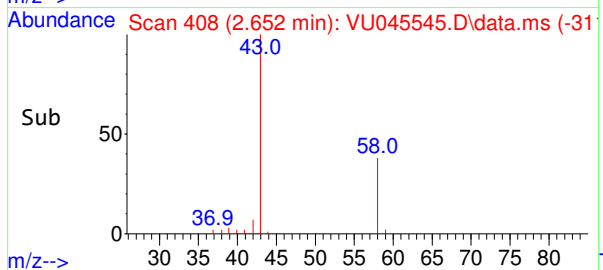
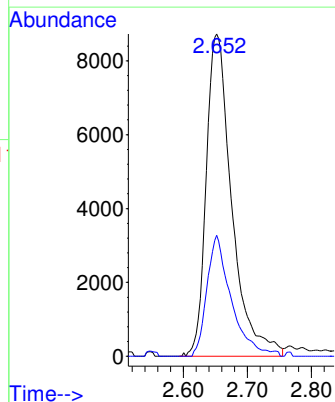
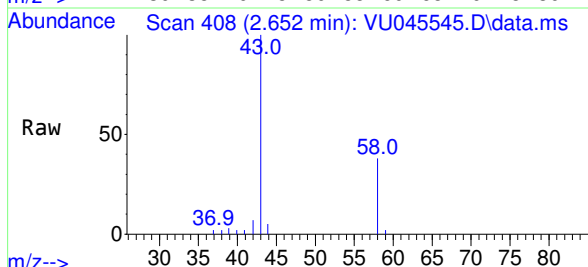
Instrument :  
MSVOA\_U  
ClientSampleId :

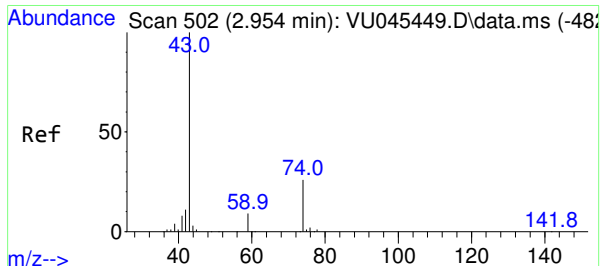
Tgt Ion:168 Resp: 164516  
Ion Ratio Lower Upper  
168 100  
99 54.7 51.0 76.6



#16  
Acetone  
Concen: 19.95 ug/l  
RT: 2.652 min Scan# 408  
Delta R.T. 0.013 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 43 Resp: 24261  
Ion Ratio Lower Upper  
43 100  
58 37.5 26.2 39.2

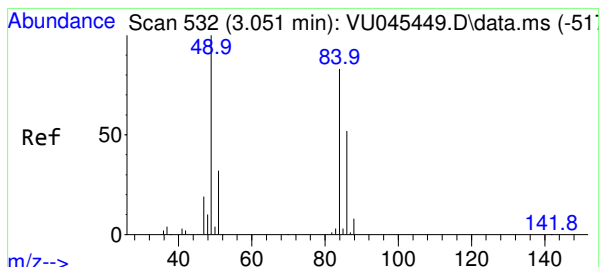
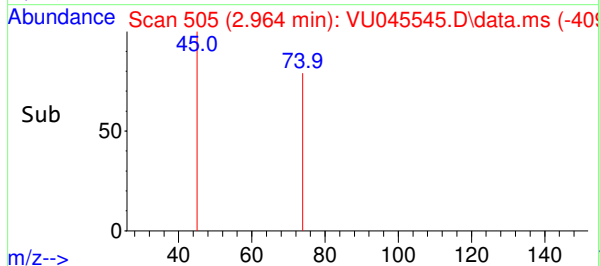
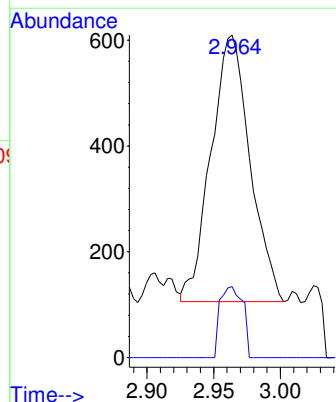
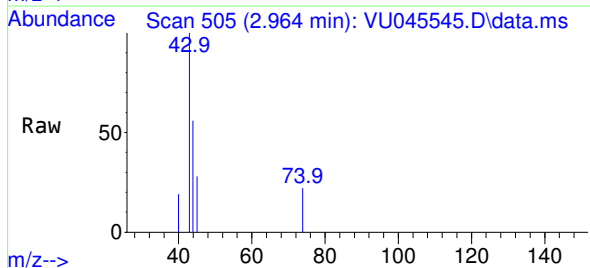




#18  
Methyl Acetate  
Concen: 0.23 ug/l  
RT: 2.964 min Scan# 518  
Delta R.T. 0.010 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

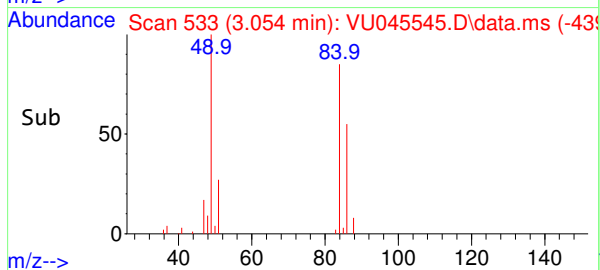
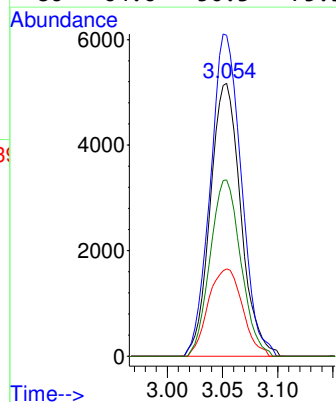
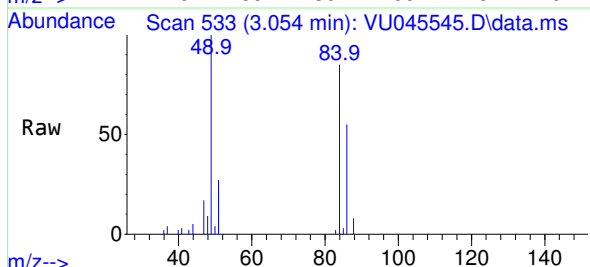
Instrument :  
MSVOA\_U  
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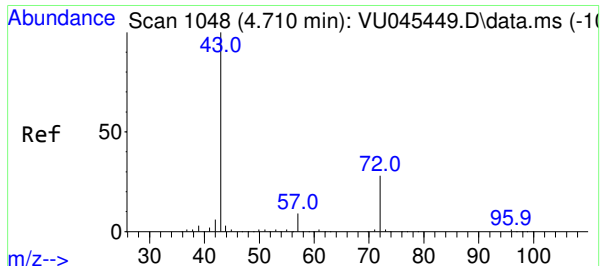
Tgt Ion: 43 Resp: 1027  
Ion Ratio Lower Upper  
43 100  
74 15.5 20.2 30.2#



#20  
Methylene Chloride  
Concen: 4.11 ug/l  
RT: 3.054 min Scan# 533  
Delta R.T. 0.003 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 84 Resp: 9951  
Ion Ratio Lower Upper  
84 100  
49 117.5 96.4 144.6  
51 32.1 30.5 45.7  
86 64.6 50.3 75.5

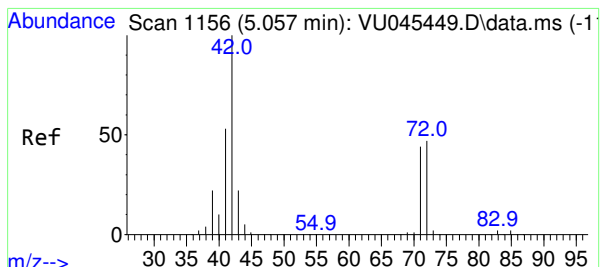
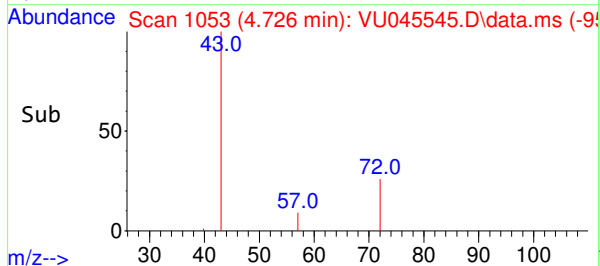
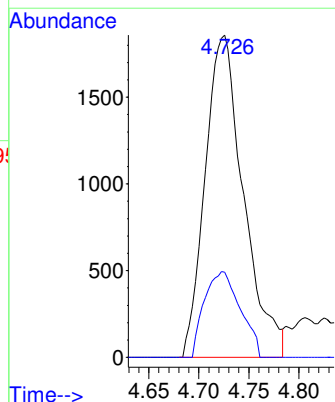
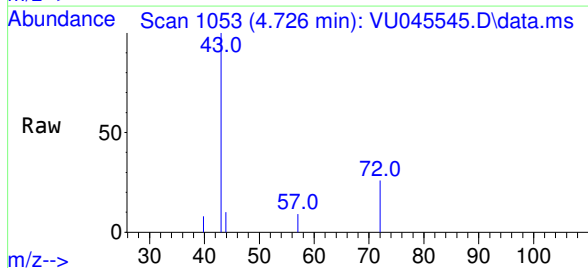




#25  
2-Butanone  
Concen: 2.70 ug/l  
RT: 4.726 min Scan# 1  
Delta R.T. 0.016 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

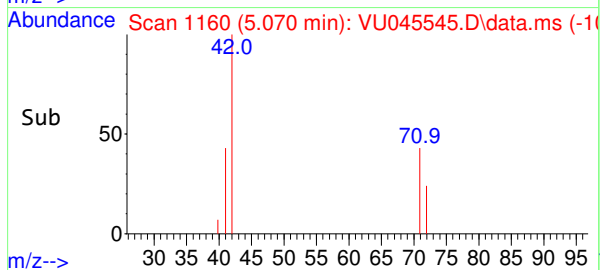
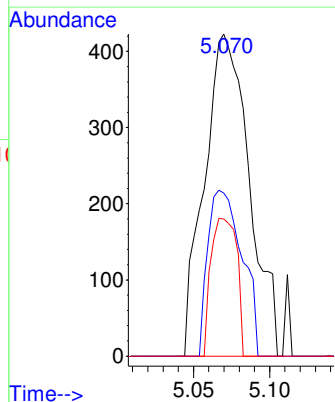
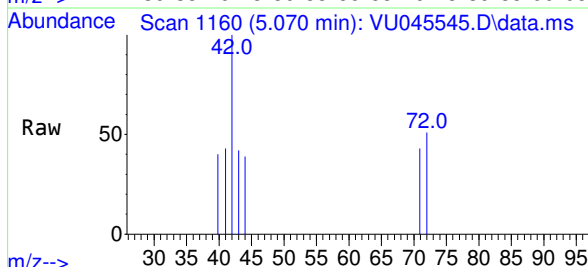
Instrument :  
MSVOA\_U  
ClientSampleId :

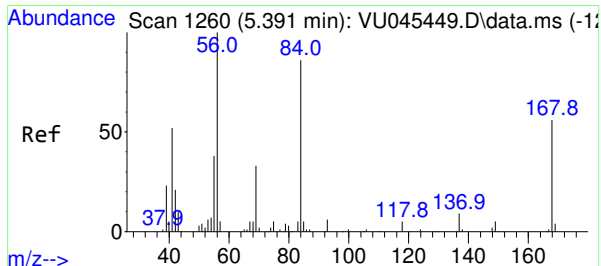
Tgt Ion: 43 Resp: 4958  
Ion Ratio Lower Upper  
43 100  
72 26.4 22.0 33.0



#29  
Tetrahydrofuran  
Concen: 0.73 ug/l  
RT: 5.070 min Scan# 1160  
Delta R.T. 0.013 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 42 Resp: 866  
Ion Ratio Lower Upper  
42 100  
72 39.4 38.2 57.4  
71 24.5 35.4 53.2#

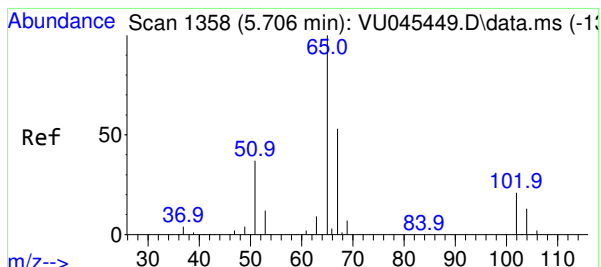
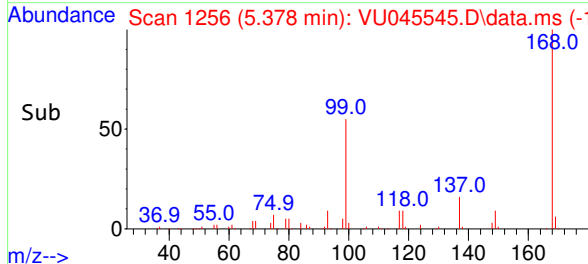
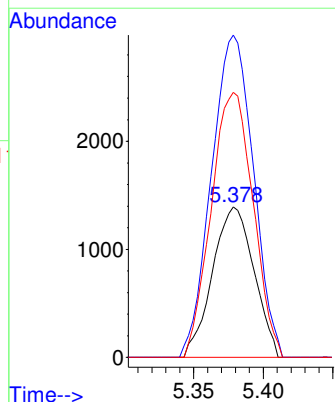
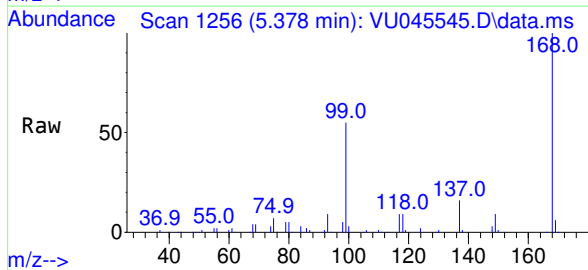




#31  
Cyclohexane  
Concen: 0.72 ug/l  
RT: 5.378 min Scan# 1  
Delta R.T. -0.013 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

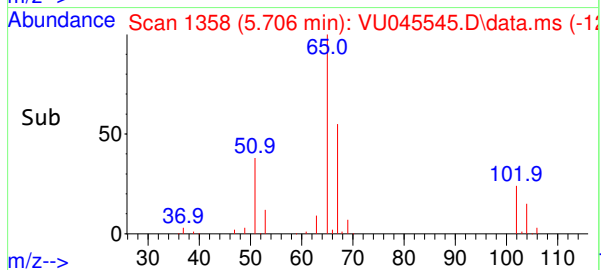
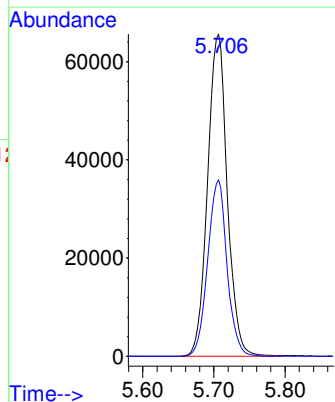
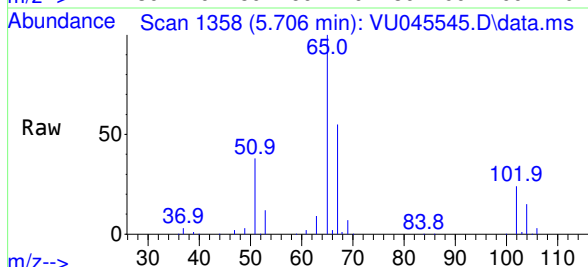
Instrument :  
MSVOA\_U  
ClientSampleId :

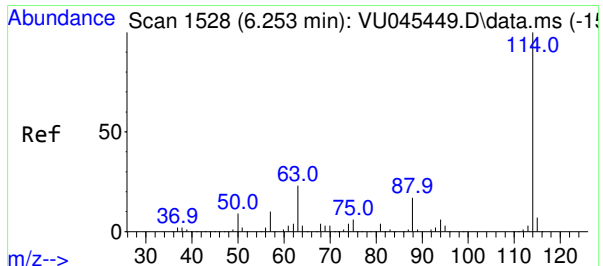
Tgt Ion: 56 Resp: 2875  
Ion Ratio Lower Upper  
56 100  
69 214.4 26.4 39.6#  
84 176.1 68.4 102.6#



#33  
1,2-Dichloroethane-d4  
Concen: 47.13 ug/l  
RT: 5.706 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 65 Resp: 126223  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 105.8

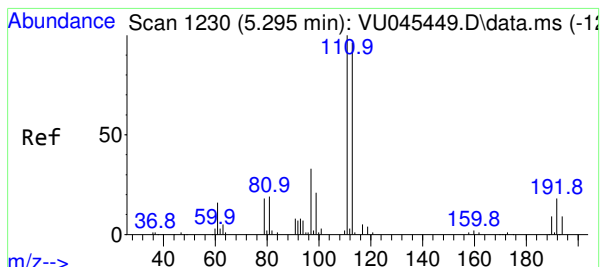
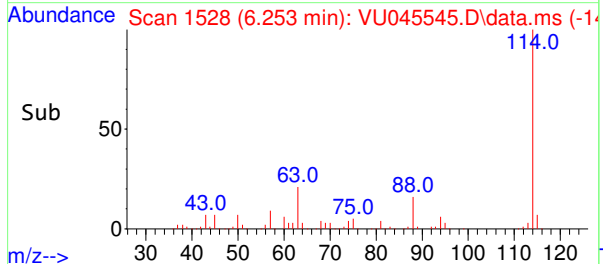
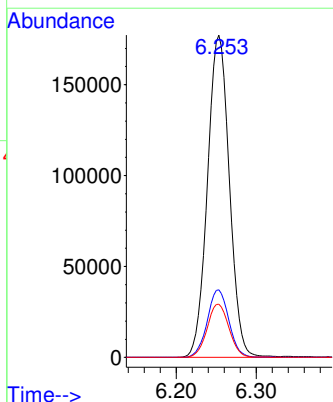
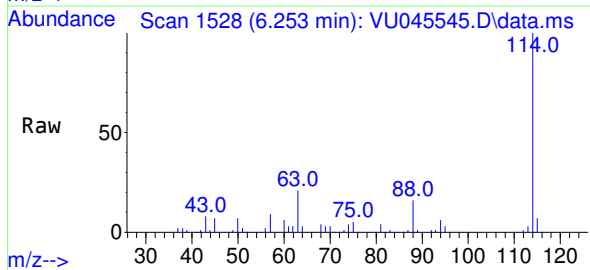




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.253 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

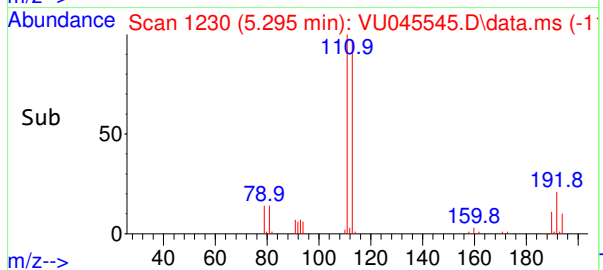
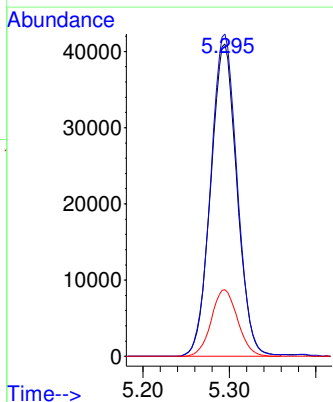
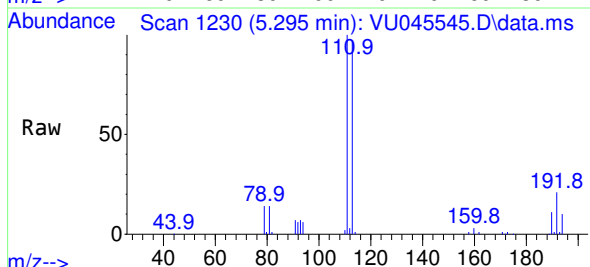
Instrument :  
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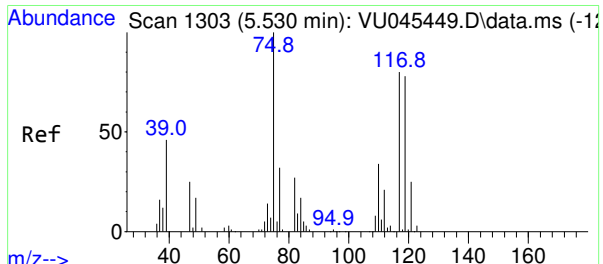
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 338707      |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 20.9  | 0.0 45.6    |
| 88          | 16.5  | 0.0 33.8    |



#35  
Dibromofluoromethane  
Concen: 40.23 ug/l  
RT: 5.295 min Scan# 1230  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 86635       |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 103.6 | 82.8 124.2  |
| 192         | 21.4  | 14.8 22.2   |

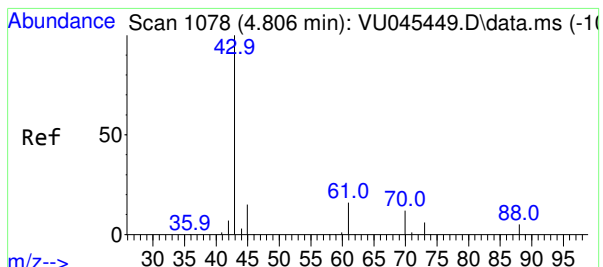
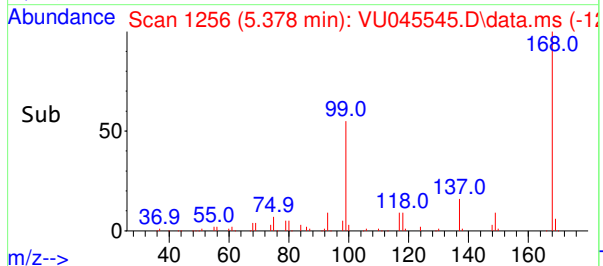
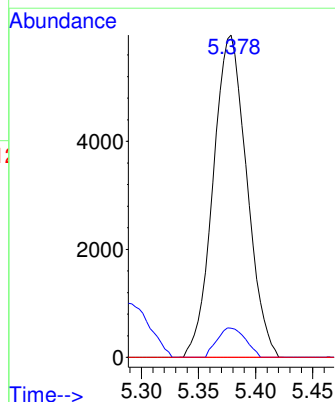
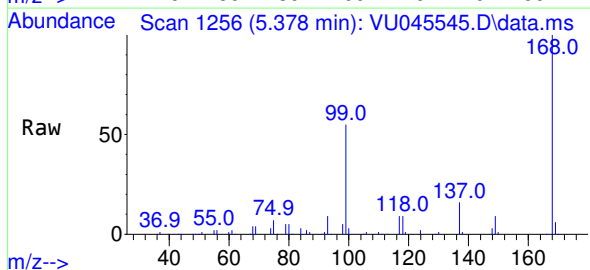




#36  
1,1-Dichloropropene  
Concen: 3.80 ug/l  
RT: 5.378 min Scan# 1  
Delta R.T. -0.151 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

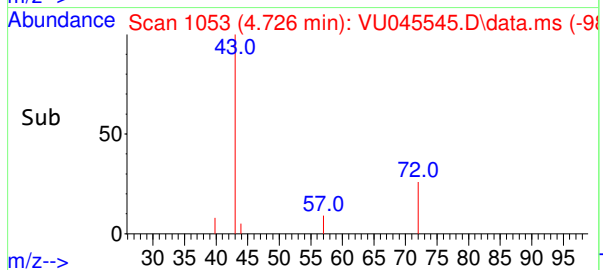
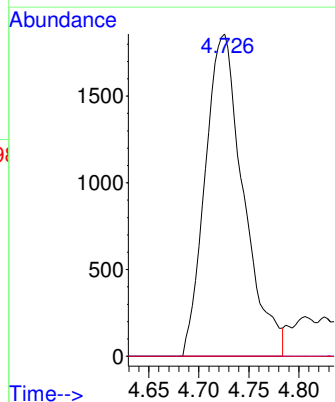
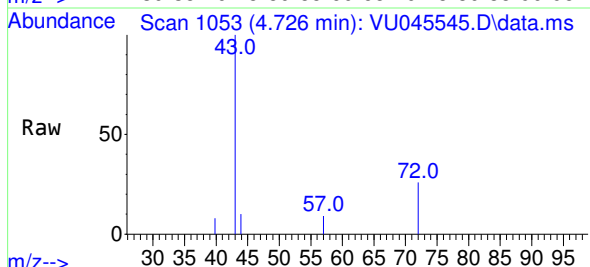
Instrument :  
MSVOA\_U  
ClientSampleId :

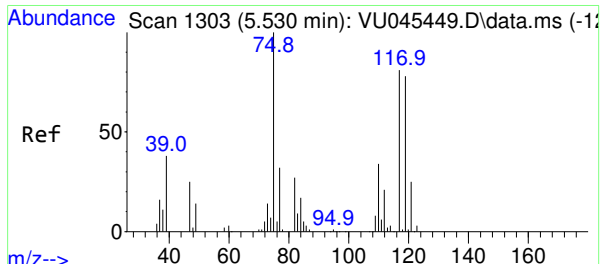
Tgt Ion: 75 Resp: 12247  
Ion Ratio Lower Upper  
75 100  
110 7.7 16.7 50.0#  
77 0.0 25.0 37.4#



#37  
Ethyl Acetate  
Concen: 1.27 ug/l  
RT: 4.726 min Scan# 1053  
Delta R.T. -0.080 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 43 Resp: 4958  
Ion Ratio Lower Upper  
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61 0.0 11.6 17.4#  
70 0.0 9.1 13.7#

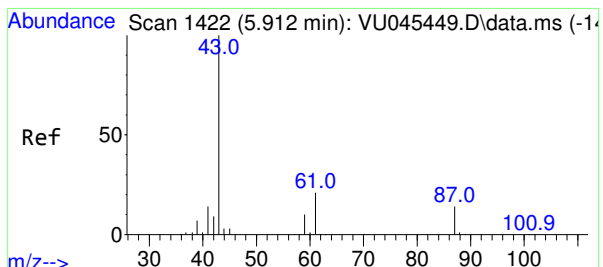
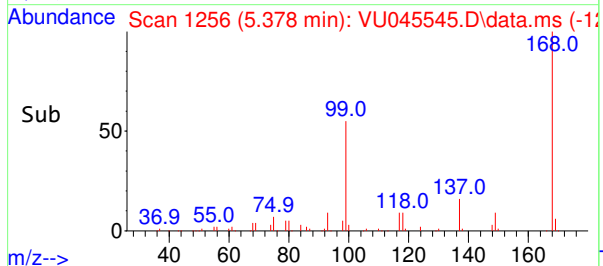
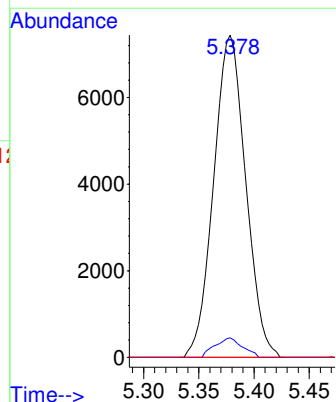
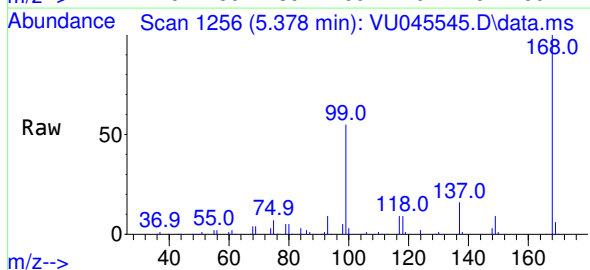




#38  
Carbon Tetrachloride  
Concen: 5.34 ug/l  
RT: 5.378 min Scan# 1  
Delta R.T. -0.151 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

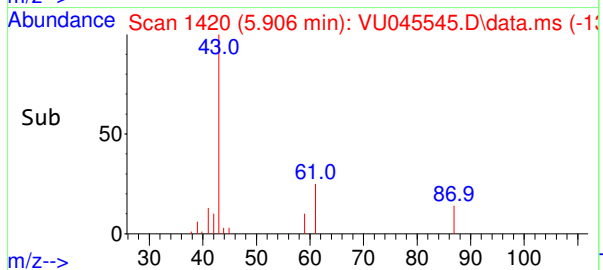
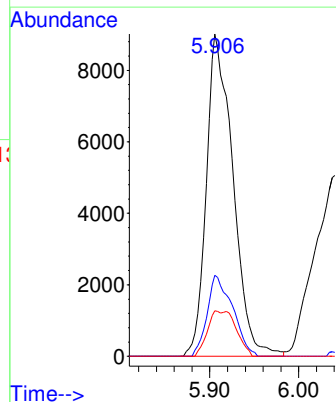
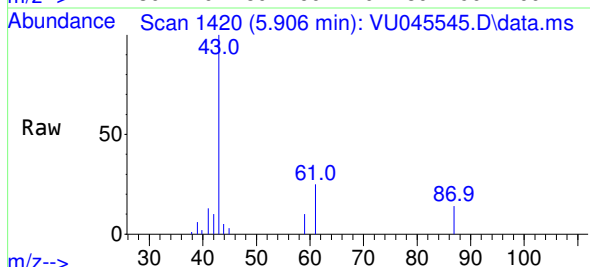
Instrument :  
MSVOA\_U  
ClientSampleId :

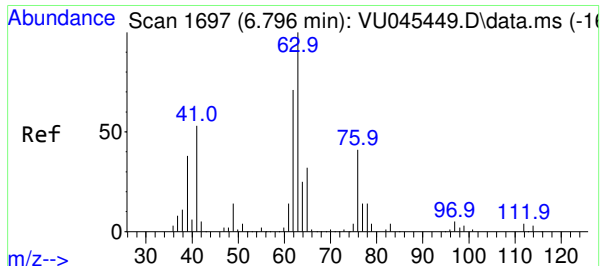
Tgt Ion: 117 Resp: 15010  
Ion Ratio Lower Upper  
117 100  
119 6.0 77.4 116.0#  
121 0.0 24.8 37.2#



#43  
Isopropyl Acetate  
Concen: 3.19 ug/l  
RT: 5.906 min Scan# 1420  
Delta R.T. -0.006 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 43 Resp: 18785  
Ion Ratio Lower Upper  
43 100  
61 24.1 16.9 25.3  
87 7.4 11.0 16.4#

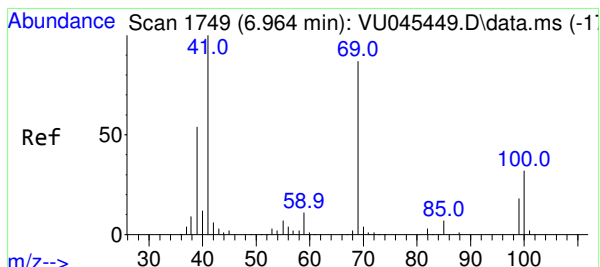
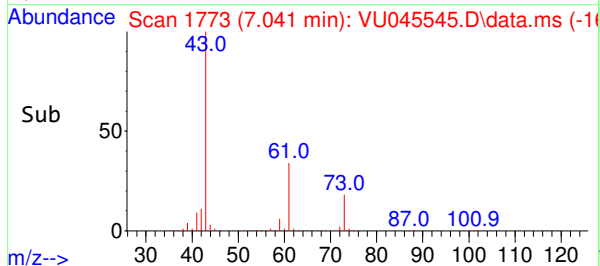
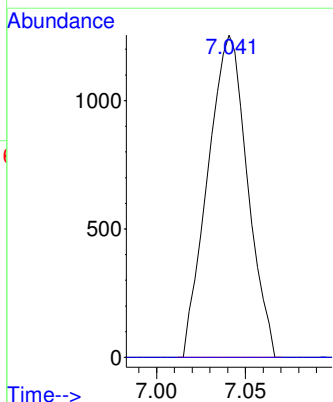
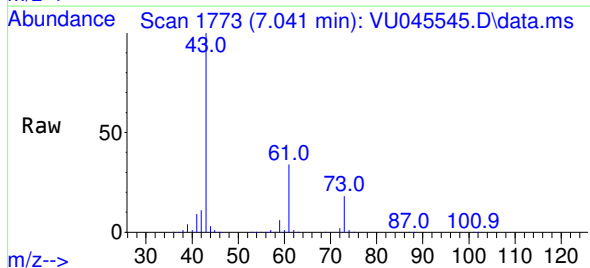




#45  
1,2-Dichloropropane  
Concen: 0.76 ug/l  
RT: 7.041 min Scan# 1  
Delta R.T. 0.244 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

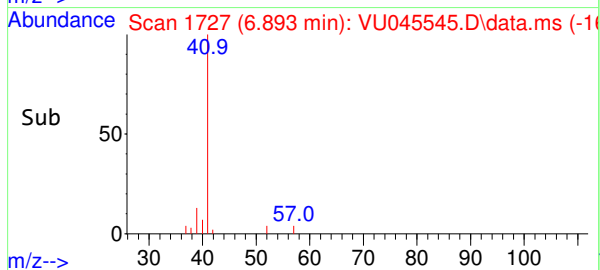
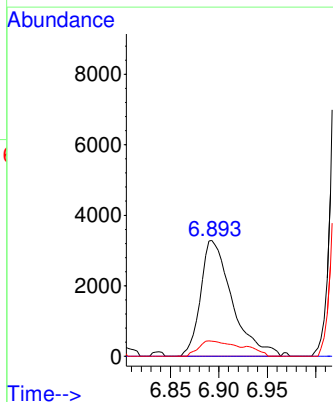
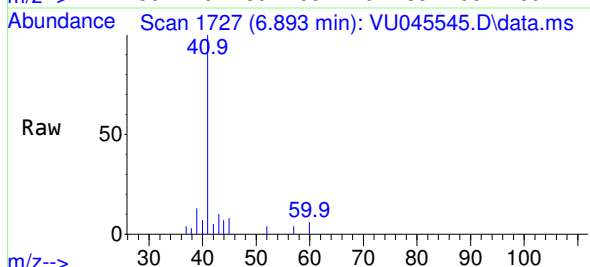
Instrument :  
MSVOA\_U  
ClientSampleId :

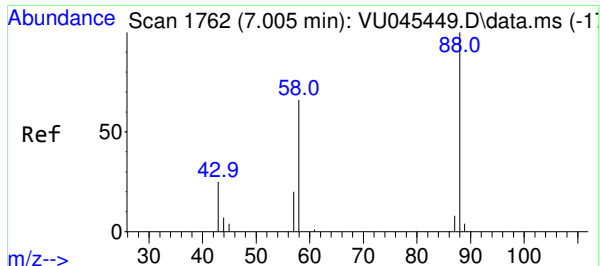
Tgt Ion: 63 Resp: 1947  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.7 38.5#



#48  
Methyl methacrylate  
Concen: 2.67 ug/l  
RT: 6.893 min Scan# 1727  
Delta R.T. -0.071 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 41 Resp: 7436  
Ion Ratio Lower Upper  
41 100  
69 0.0 70.2 105.2#  
39 0.0 43.9 65.9#

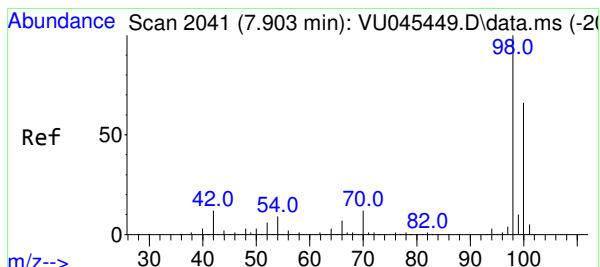
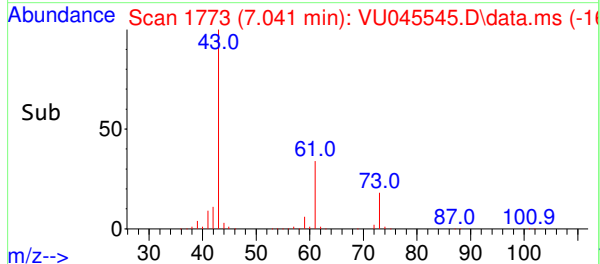
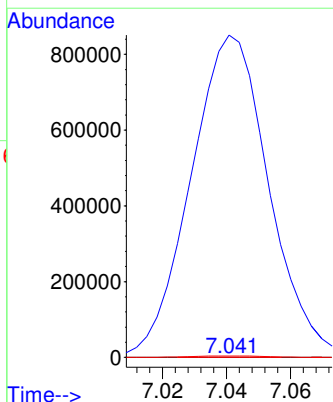
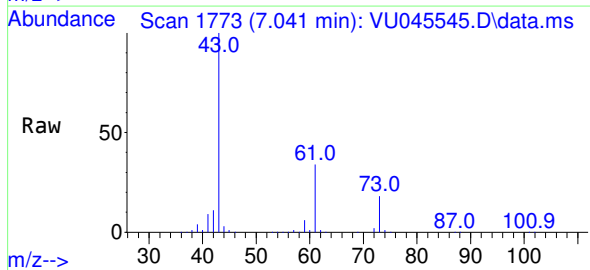




#49  
1,4-Dioxane  
Concen: 2.76 ug/l  
RT: 7.041 min Scan# 1  
Delta R.T. 0.035 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

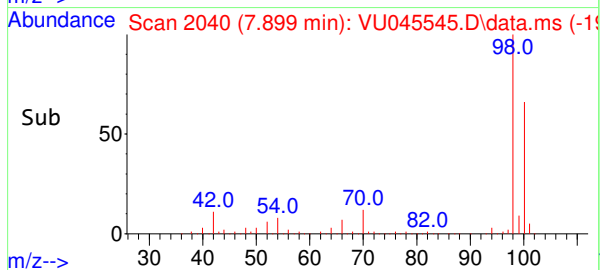
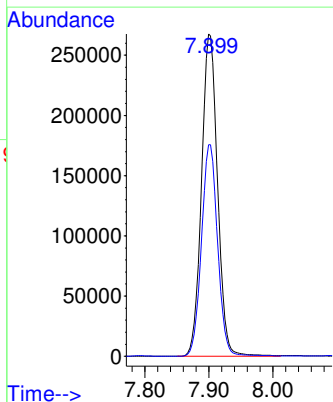
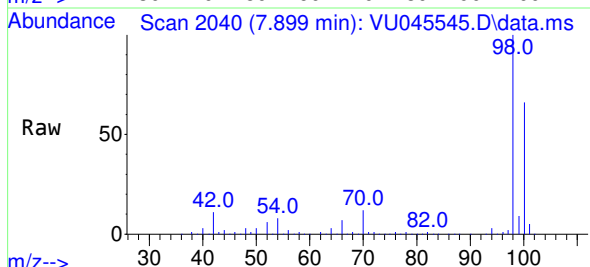
Instrument :  
MSVOA\_U  
ClientSampleId :

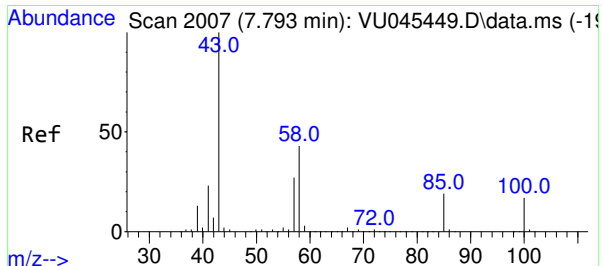
Tgt Ion: 88 Resp: 196  
Ion Ratio Lower Upper  
88 100  
43 746069.4 0.0 0.0#  
58 3453.6 58.7 88.1#



#50  
Toluene-d8  
Concen: 55.14 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.003 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 98 Resp: 465675  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.5 78.7

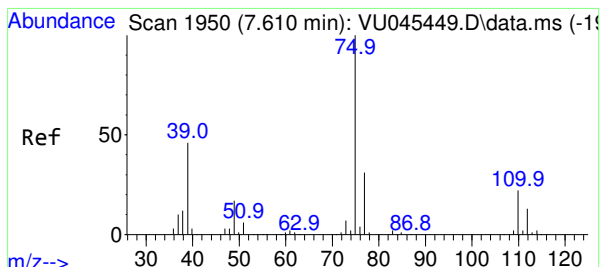
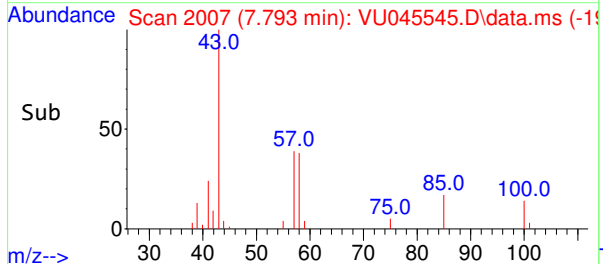
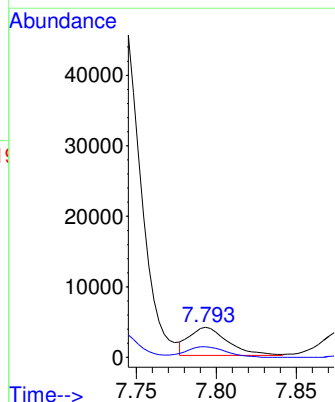
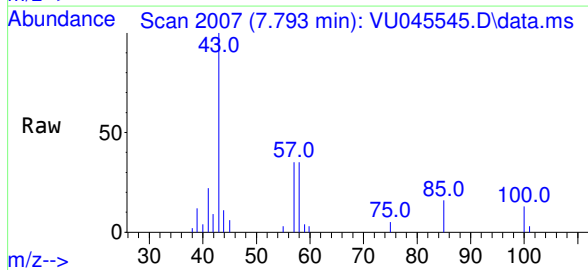




#51  
4-Methyl-2-Pentanone  
Concen: 1.75 ug/l  
RT: 7.793 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

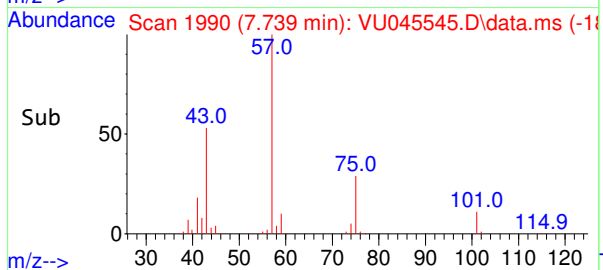
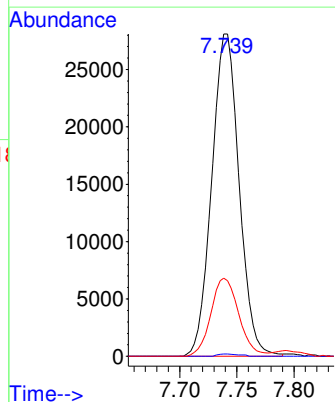
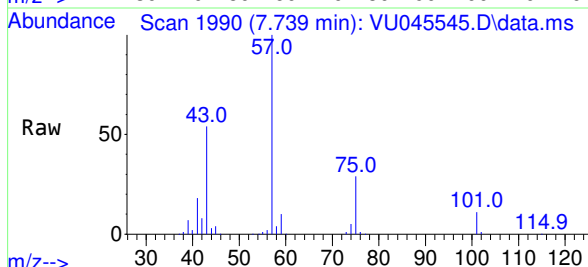
Instrument :  
MSVOA\_U  
ClientSampleId :

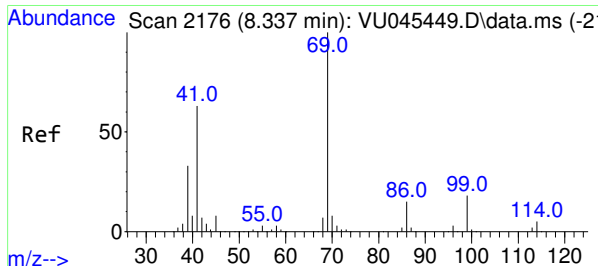
Tgt Ion: 43 Resp: 6672  
Ion Ratio Lower Upper  
43 100  
58 40.3 33.8 50.8



#54  
cis-1,3-Dichloropropene  
Concen: 11.73 ug/l  
RT: 7.739 min Scan# 1990  
Delta R.T. 0.129 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 75 Resp: 46861  
Ion Ratio Lower Upper  
75 100  
77 0.8 24.6 37.0#  
39 24.3 37.1 55.7#

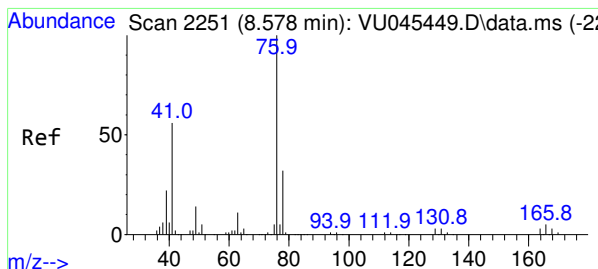
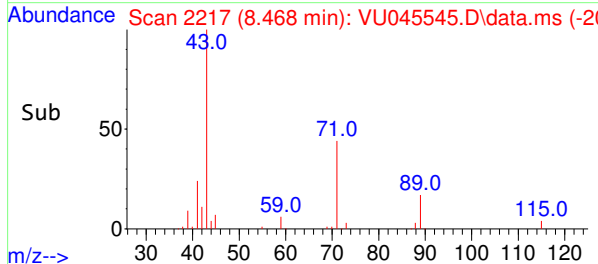
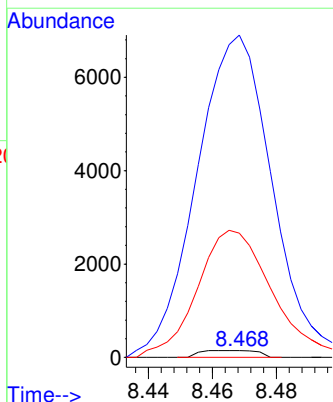
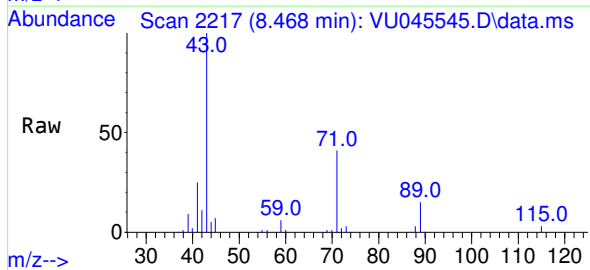




#56  
Ethyl methacrylate  
Concen: 1.68 ug/l  
RT: 8.468 min Scan# 2176  
Delta R.T. 0.131 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

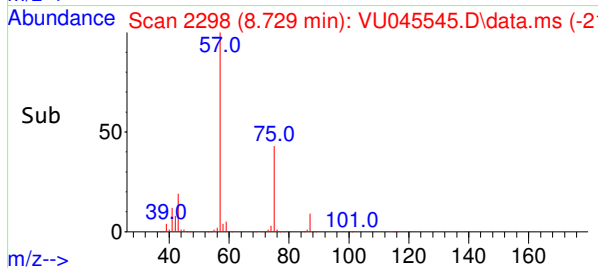
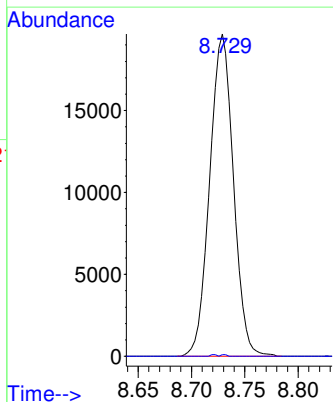
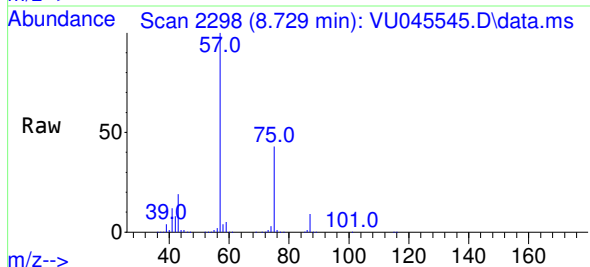
Instrument :  
MSVOA\_U  
ClientSampleId :

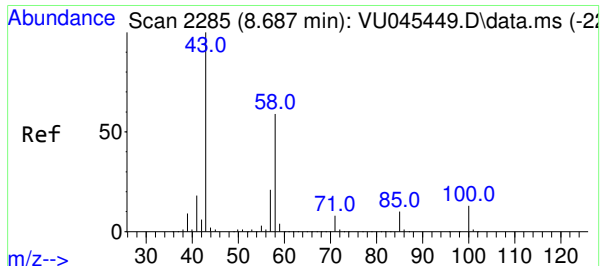
Tgt Ion: 69 Resp: 182  
Ion Ratio Lower Upper  
69 100  
41 6286.3 51.0 76.4#  
39 2447.8 26.6 39.8#



#57  
1,3-Dichloropropane  
Concen: 7.12 ug/l  
RT: 8.729 min Scan# 2298  
Delta R.T. 0.151 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 76 Resp: 30462  
Ion Ratio Lower Upper  
76 100  
78 0.1 25.8 38.8#

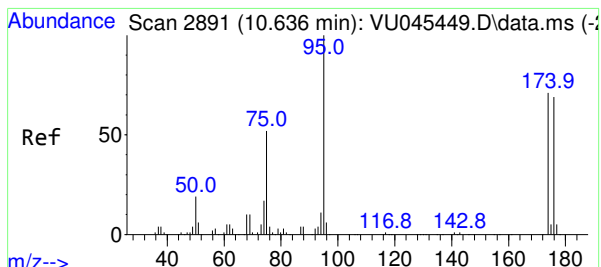
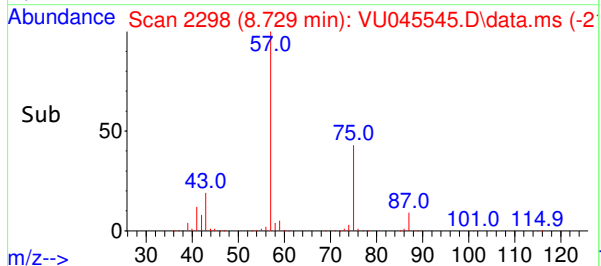
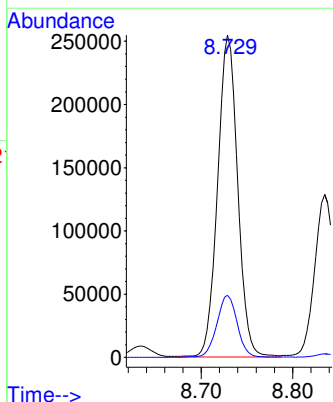
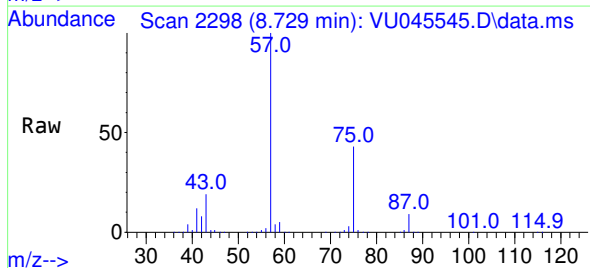




#59  
2-Hexanone  
Concen: 131.64 ug/l  
RT: 8.729 min Scan# 21  
Delta R.T. 0.042 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

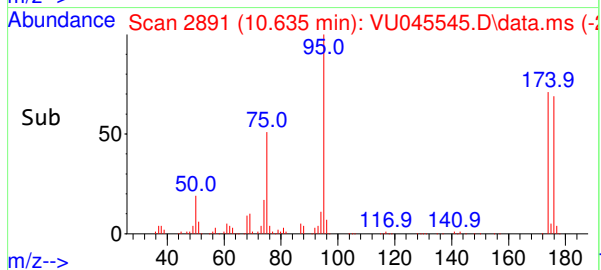
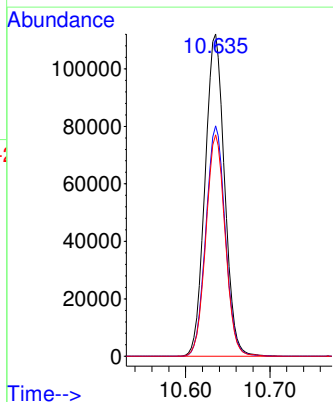
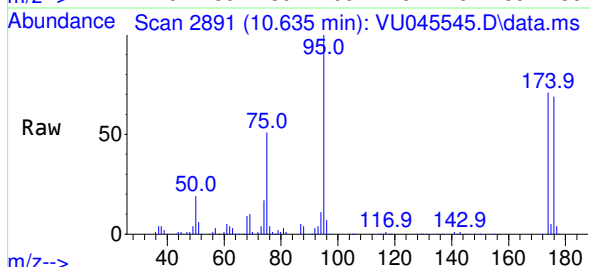
Instrument :  
MSVOA\_U  
ClientSampleId :

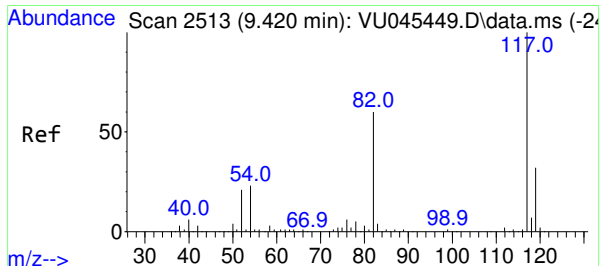
Tgt Ion: 43 Resp: 387937  
Ion Ratio Lower Upper  
43 100  
58 19.8 29.5 88.6#



#62  
4-Bromofluorobenzene  
Concen: 55.91 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 95 Resp: 179913  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 141.8  
176 67.9 0.0 138.2

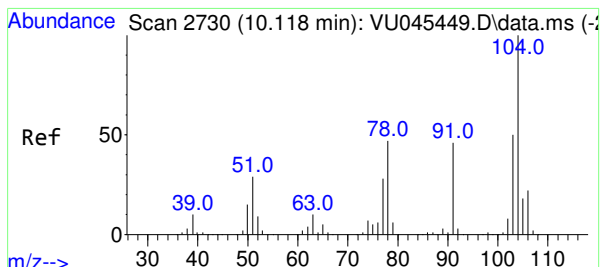
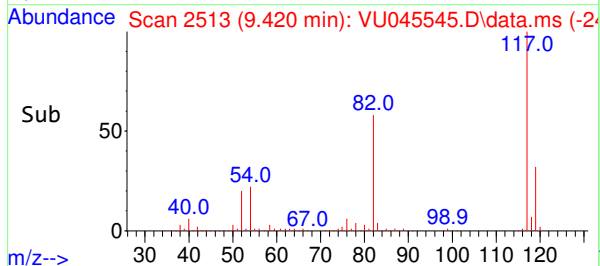
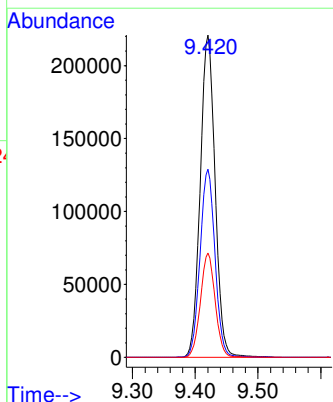
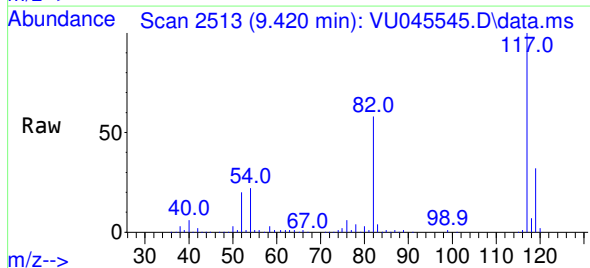




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.420 min Scan# 2  
Delta R.T. 0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

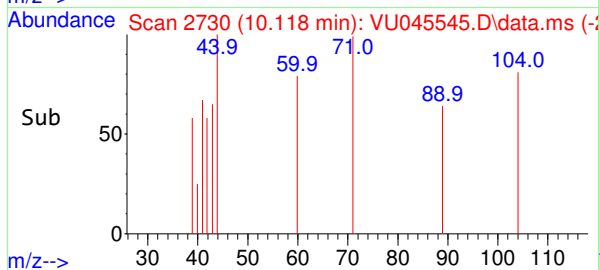
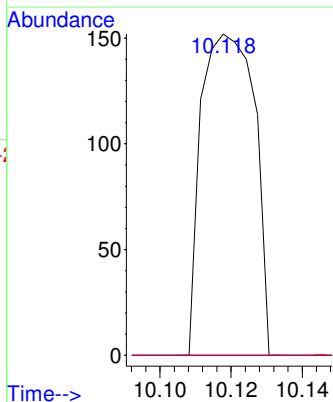
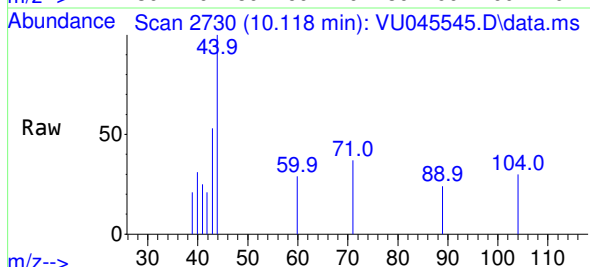
Instrument :  
MSVOA\_U  
ClientSampleId :

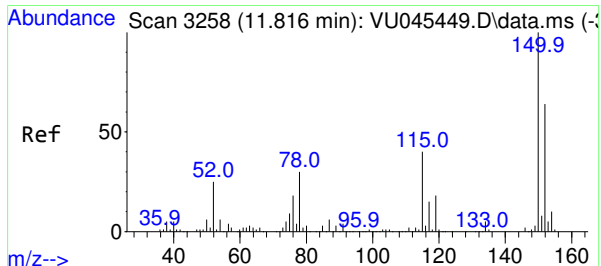
Tgt Ion:117 Resp: 364971  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.8 71.8  
119 32.4 25.8 38.8



#70  
Styrene  
Concen: 0.99 ug/l  
RT: 10.118 min Scan# 2730  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion:104 Resp: 158  
Ion Ratio Lower Upper  
104 100  
78 0.0 41.8 62.6#  
103 0.0 43.8 65.6#

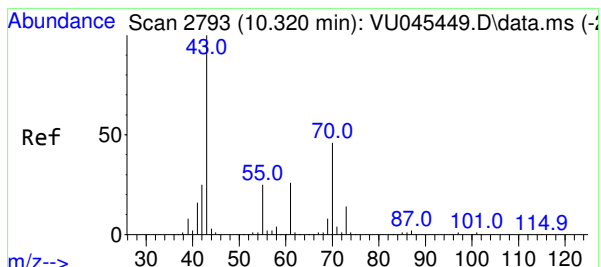
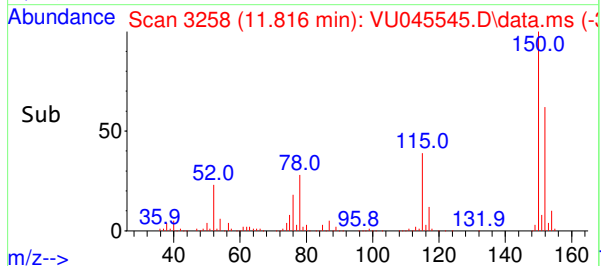
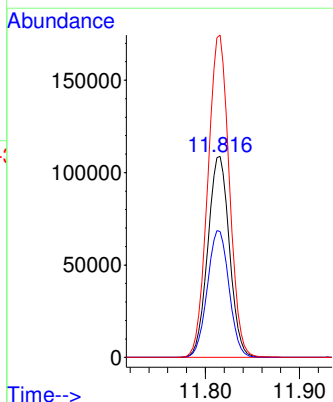
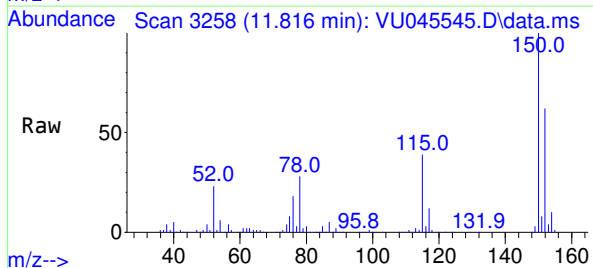




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.816 min Scan# 3  
Delta R.T. -0.000 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

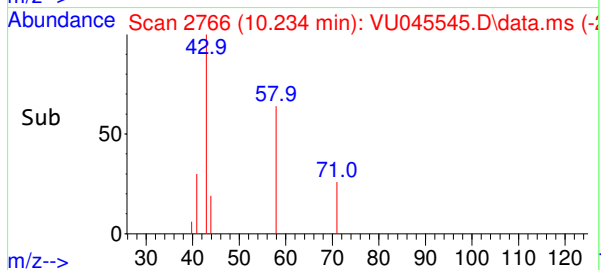
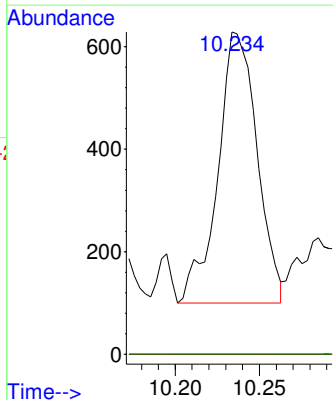
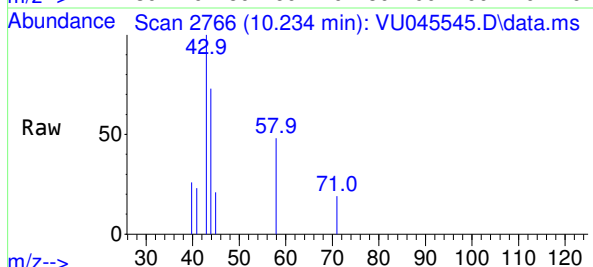
Instrument :  
MSVOA\_U  
ClientSampleId :

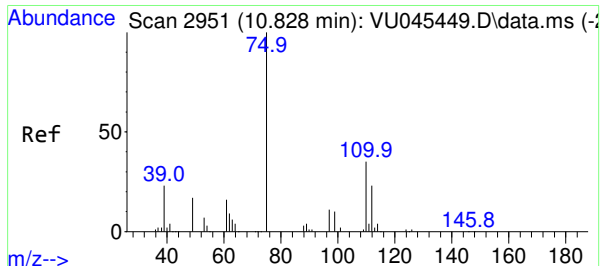
Tgt Ion:152 Resp: 173426  
Ion Ratio Lower Upper  
152 100  
115 63.4 42.7 128.1  
150 159.4 0.0 346.8



#74  
N-ethyl acetate  
Concen: 1.29 ug/l  
RT: 10.234 min Scan# 2766  
Delta R.T. -0.086 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

Tgt Ion: 43 Resp: 859  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.9 55.3#  
55 0.0 20.6 31.0#  
61 0.0 20.5 30.7#

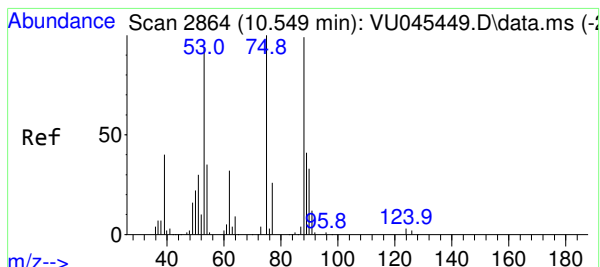
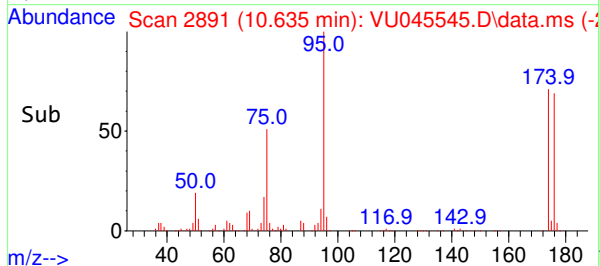
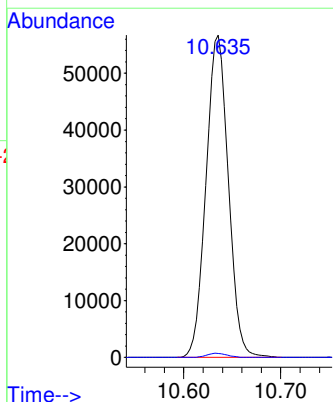
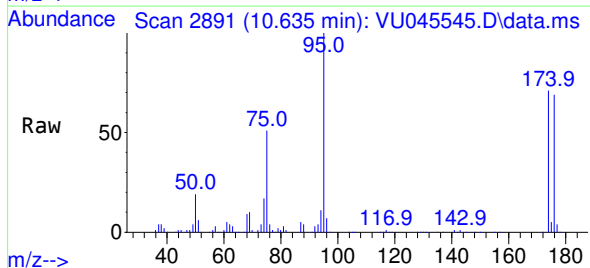




#76  
1,2,3-Trichloropropane  
Concen: 19.61 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. -0.193 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

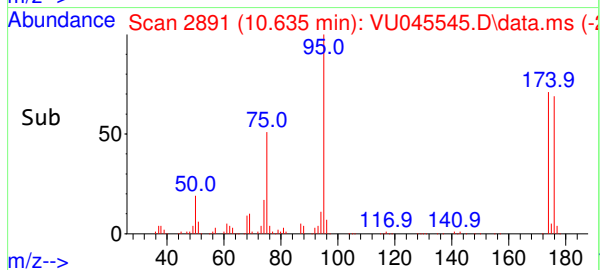
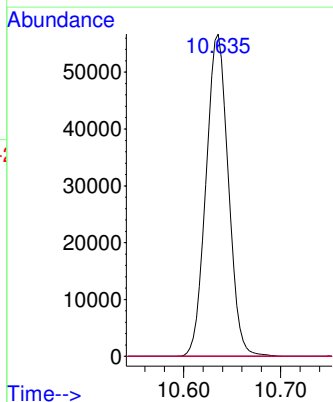
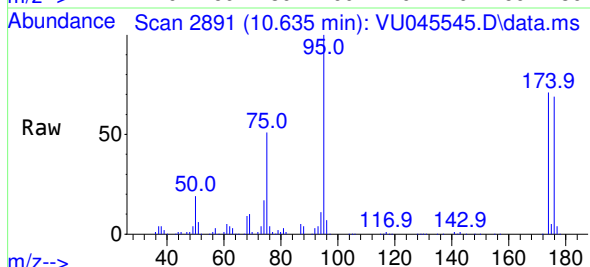
Instrument :  
MSVOA\_U  
ClientSampleId :

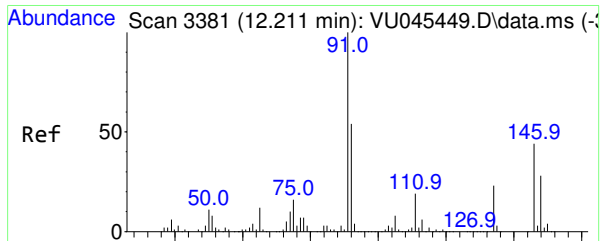
Tgt Ion: 75 Resp: 90608  
Ion Ratio Lower Upper  
75 100  
77 1.1 17.1 51.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.52 ug/l  
RT: 10.635 min Scan# 2891  
Delta R.T. 0.086 min  
Lab File: VU045545.D  
Acq: 04 Nov 2021 01:08

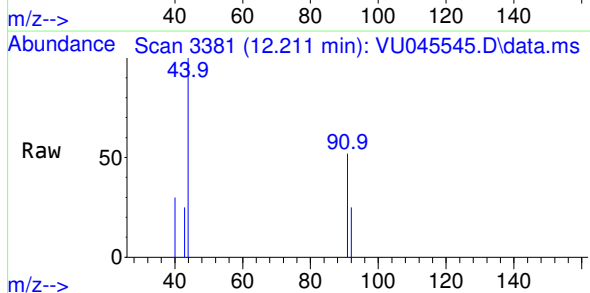
Tgt Ion: 75 Resp: 90608  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#





#89  
 n-Butylbenzene  
 Concen: 0.96 ug/l  
 RT: 12.211 min Scan# 3  
 Delta R.T. -0.000 min  
 Lab File: VU045545.D  
 Acq: 04 Nov 2021 01:08

Instrument :  
 MSVOA\_U  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 201   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 30.8  | 27.1  | 81.2  |
| 134      | 0.0   | 11.8  | 35.4# |

