

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU022221\  
 Data File : VU042405.D  
 Acq On : 22 Feb 2021 19:06  
 Operator : SY/MD  
 Sample : PB134750ZHE#04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 23 01:05:53 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 19 02:55:52 2021  
 Response via : Initial Calibration

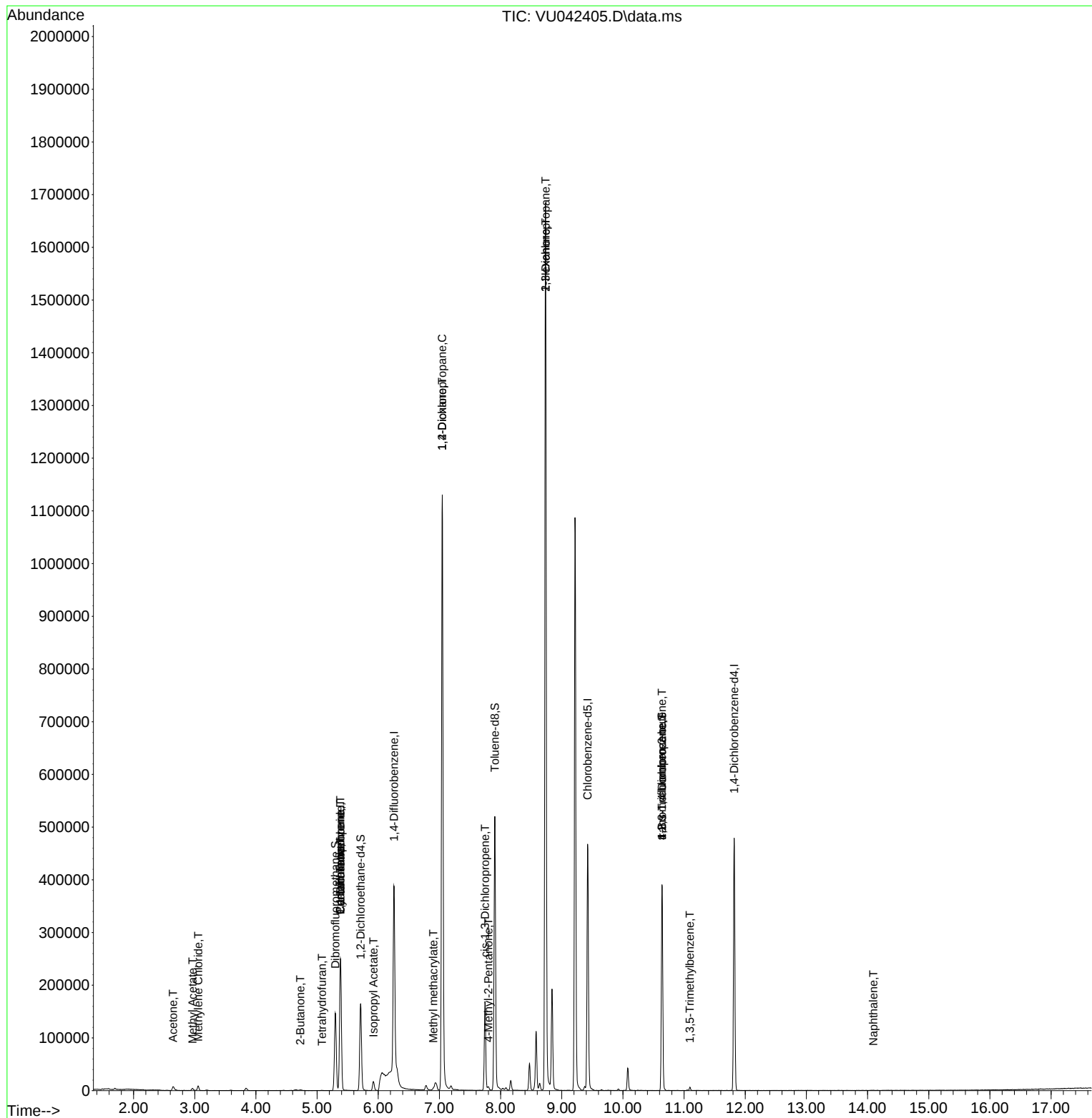
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) Pentafluorobenzene         | 5.382  | 168  | 177550   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.256  | 114  | 268047   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.423  | 117  | 245403   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.819 | 152  | 119343   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.713  | 65   | 130167   | 48.34 | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 96.68% |          |
| 35) Dibromofluoromethane      | 5.298  | 113  | 90429    | 47.80 | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 95.60% |          |
| 50) Toluene-d8                | 7.906  | 98   | 328599   | 48.49 | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 96.98% |          |
| 62) 4-Bromofluorobenzene      | 10.639 | 95   | 121007   | 45.31 | ug/l   | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =     | 90.62% |          |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 16) Acetone                   | 2.645  | 43   | 11436    | 6.85  | ug/l   | 98       |
| 18) Methyl Acetate            | 2.964  | 43   | 5985     | 1.97  | ug/l   | 92       |
| 20) Methylene Chloride        | 3.057  | 84   | 3585     | 1.86  | ug/l   | 95       |
| 25) 2-Butanone                | 4.726  | 43   | 3001     | 1.35  | ug/l # | 82       |
| 29) Tetrahydrofuran           | 5.079  | 42   | 318      | 0.23  | ug/l # | 37       |
| 31) Cyclohexane               | 5.382  | 56   | 4229     | 1.20  | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 5.382  | 75   | 13879    | 5.24  | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.382  | 117  | 17329    | 6.12  | ug/l # | 16       |
| 43) Isopropyl Acetate         | 5.922  | 43   | 19658    | 3.25  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 7.047  | 63   | 1164     | 0.56  | ug/l # | 43       |
| 48) Methyl methacrylate       | 6.902  | 41   | 6187     | 2.07  | ug/l # | 17       |
| 49) 1,4-Dioxane               | 7.047  | 88   | 20       | 0.35  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.800  | 43   | 3939     | 0.96  | ug/l   | 89       |
| 54) cis-1,3-Dichloropropene   | 7.745  | 75   | 26140    | 7.92  | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 8.735  | 76   | 15839    | 4.75  | ug/l # | 43       |
| 59) 2-Hexanone                | 8.735  | 43   | 268877   | 82.11 | ug/l # | 54       |
| 76) 1,2,3-Trichloropropane    | 10.639 | 75   | 66312    | 22.47 | ug/l # | 37       |
| 80) 1,3,5-Trimethylbenzene    | 11.095 | 105  | 3238     | 0.47  | ug/l   | 85       |
| 81) trans-1,4-Dichloro-2-b... | 10.639 | 75   | 66312    | 61.10 | ug/l # | 7        |
| 95) Naphthalene               | 14.095 | 128  | 331      | 2.25  | ug/l # | 69       |
| -----                         |        |      |          |       |        |          |

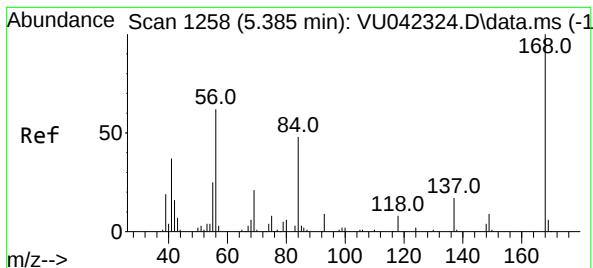
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

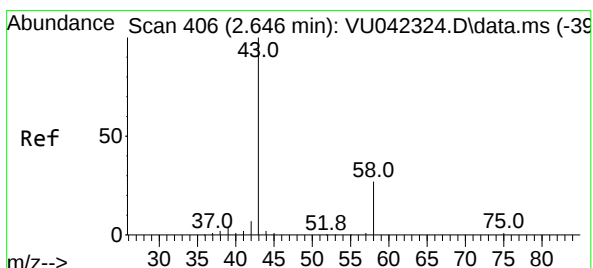
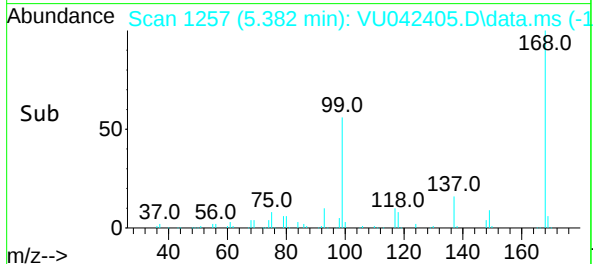
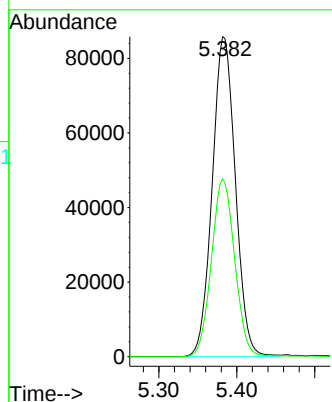
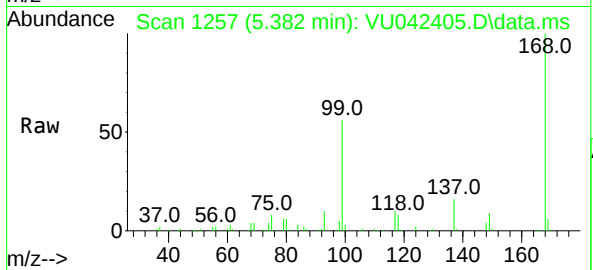




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

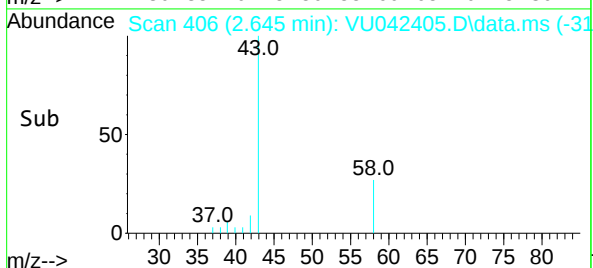
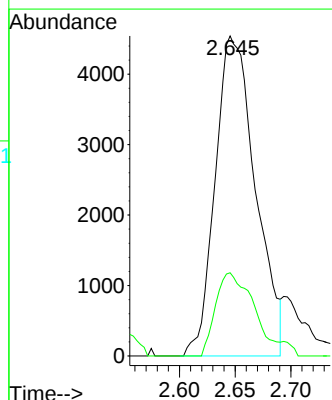
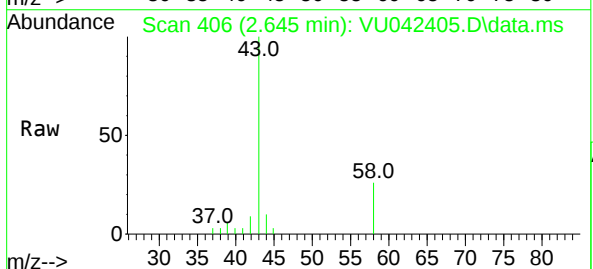
Instrument :  
MSVOA\_U  
ClientSampled :

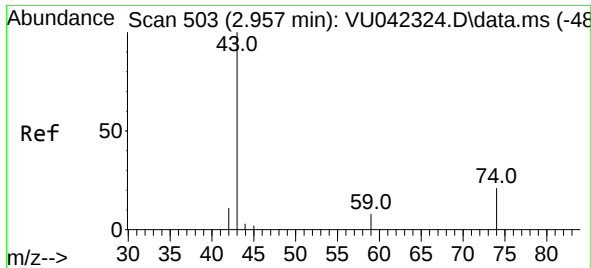
Tgt Ion:168 Resp: 177550  
Ion Ratio Lower Upper  
168 100  
99 55.6 45.0 67.4



#16  
Acetone  
Concen: 6.85 ug/l  
RT: 2.645 min Scan# 406  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 43 Resp: 11436  
Ion Ratio Lower Upper  
43 100  
58 26.0 21.5 32.3

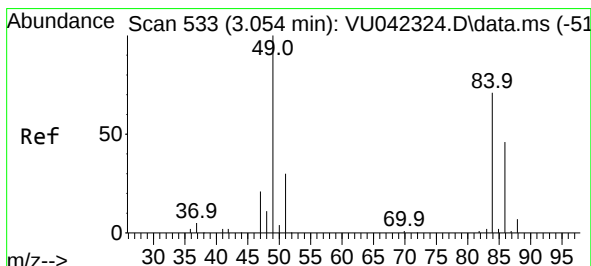
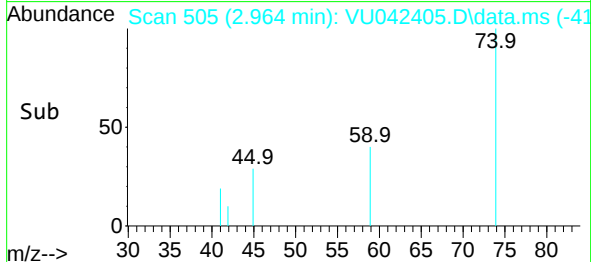
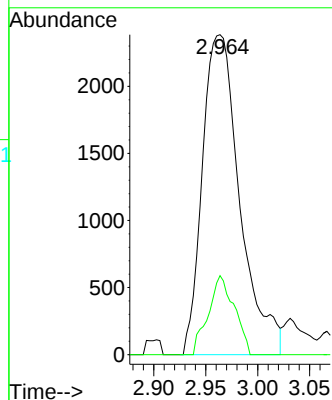
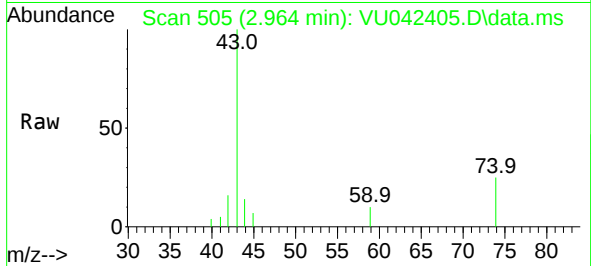




#18  
Methyl Acetate  
Concen: 1.97 ug/l  
RT: 2.964 min Scan# 505  
Delta R.T. 0.006 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

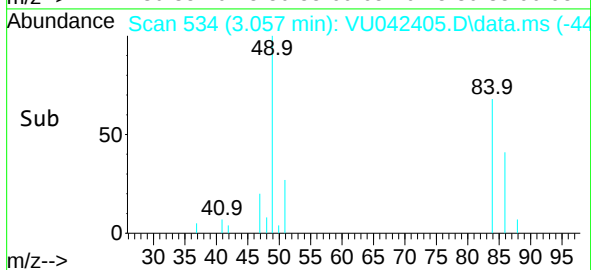
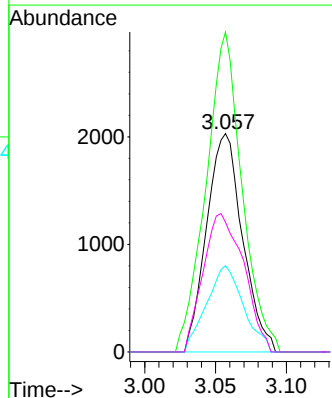
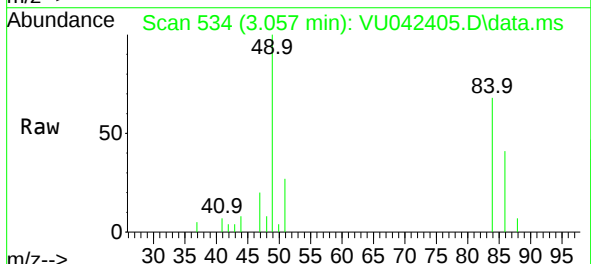
Instrument :  
MSVOA\_U  
ClientSampled :

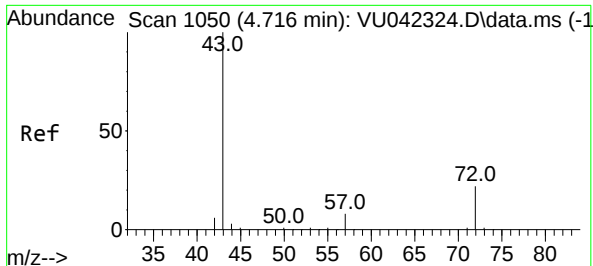
Tgt Ion: 43 Resp: 5985  
Ion Ratio Lower Upper  
43 100  
74 17.1 16.6 25.0



#20  
Methylene Chloride  
Concen: 1.86 ug/l  
RT: 3.057 min Scan# 534  
Delta R.T. 0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 84 Resp: 3585  
Ion Ratio Lower Upper  
84 100  
49 146.5 112.6 169.0  
51 39.5 33.7 50.5  
86 59.4 51.7 77.5

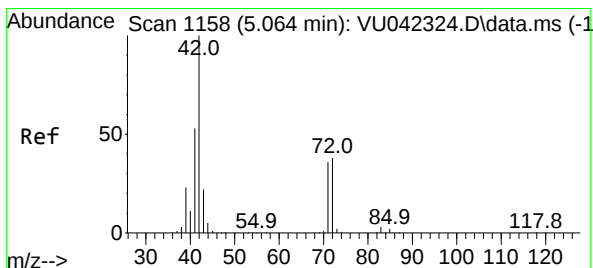
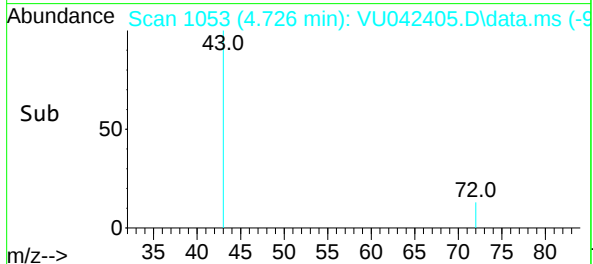
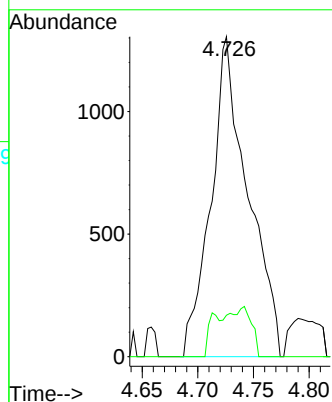
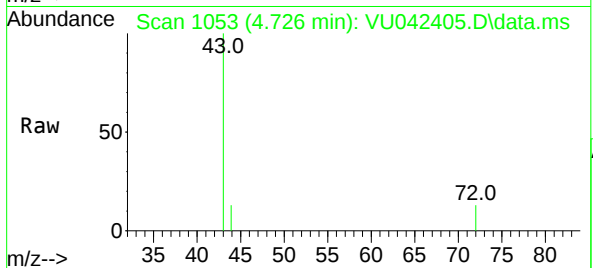




#25  
2-Butanone  
Concen: 1.35 ug/l  
RT: 4.726 min Scan# 1053  
Delta R.T. 0.009 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

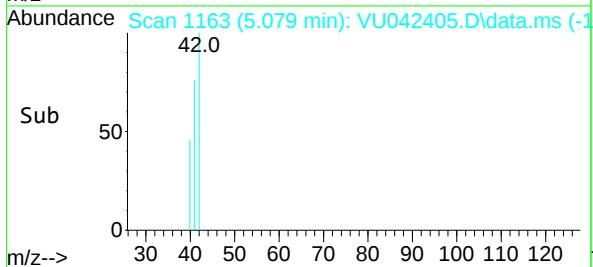
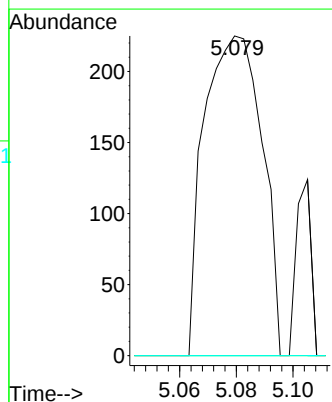
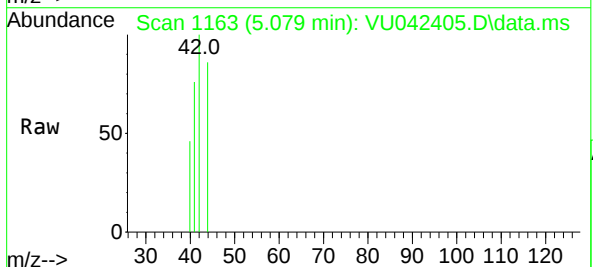
Instrument :  
MSVOA\_U  
ClientSampled :

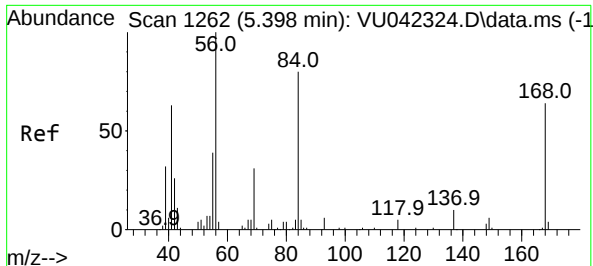
Tgt Ion: 43 Resp: 3001  
Ion Ratio Lower Upper  
43 100  
72 13.0 17.4 26.0#



#29  
Tetrahydrofuran  
Concen: 0.23 ug/l  
RT: 5.079 min Scan# 1163  
Delta R.T. 0.016 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 42 Resp: 318  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.5 47.3#  
71 0.0 29.5 44.3#

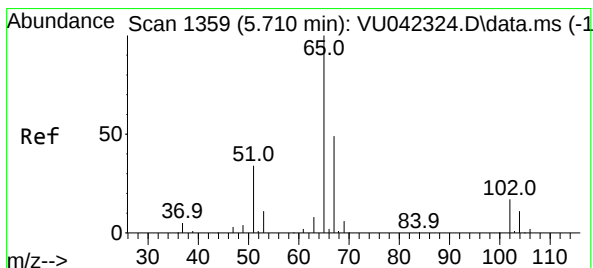
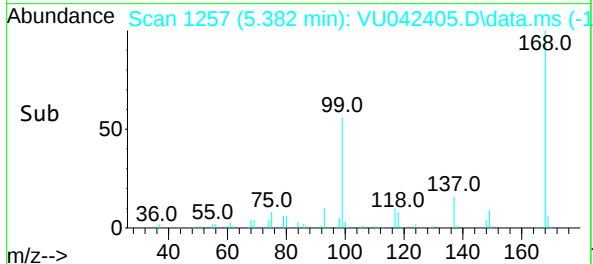
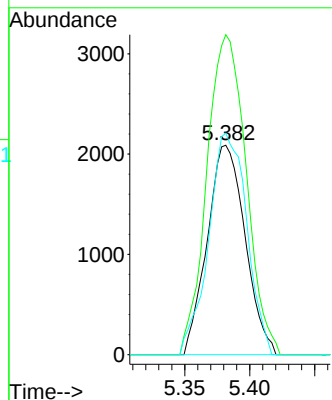
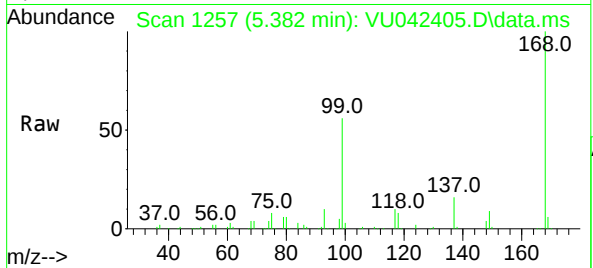




#31  
Cyclohexane  
Concen: 1.20 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.016 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

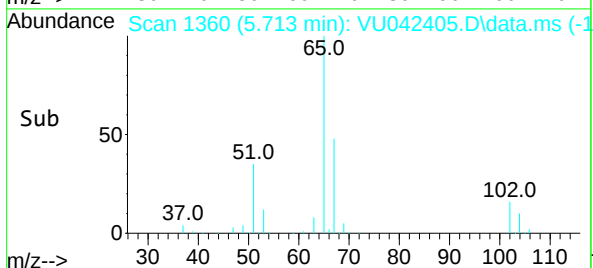
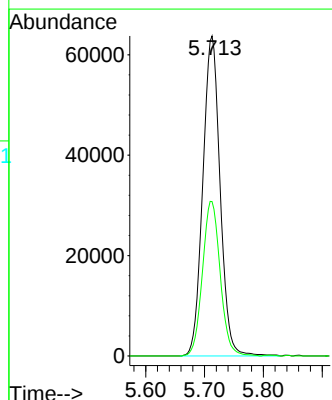
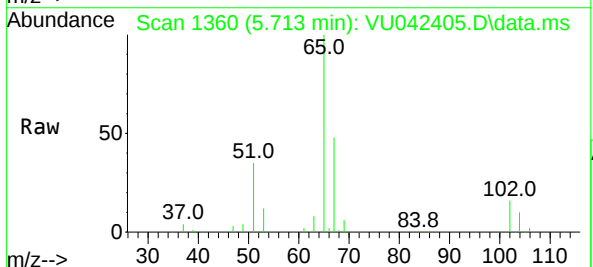
Instrument :  
MSVOA\_U  
ClientSampleId :

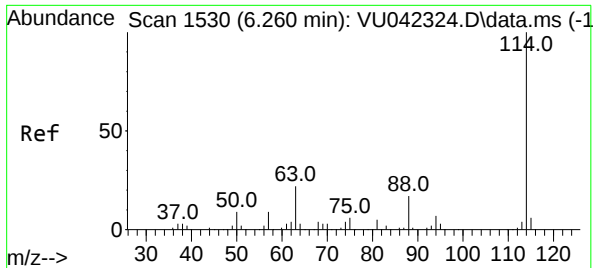
Tgt Ion: 56 Resp: 4229  
Ion Ratio Lower Upper  
56 100  
69 152.8 24.9 37.3#  
84 105.7 63.7 95.5#



#33  
1,2-Dichloroethane-d4  
Concen: 48.34 ug/l  
RT: 5.713 min Scan# 1360  
Delta R.T. 0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 65 Resp: 130167  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 99.8

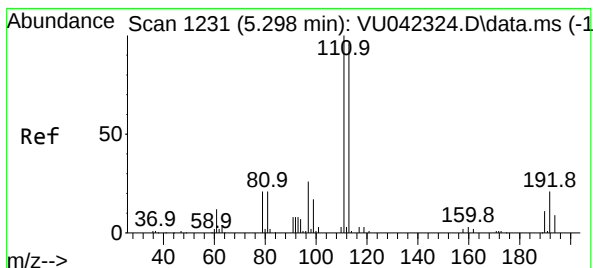
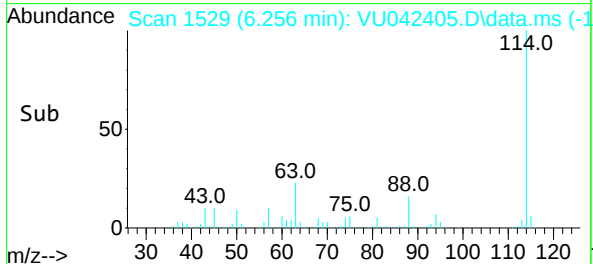
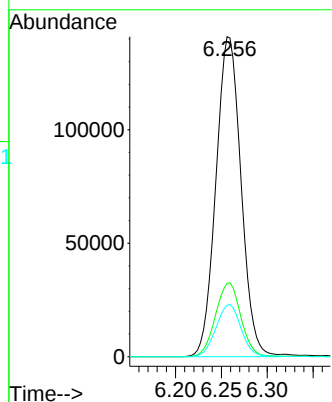
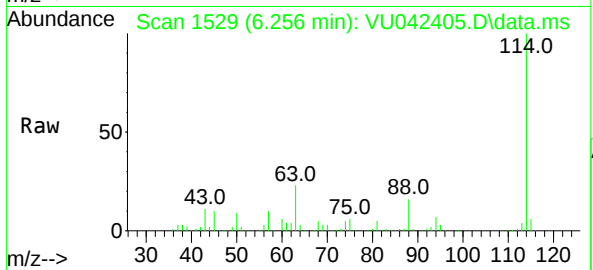




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.256 min Scan# 1529  
Delta R.T. -0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

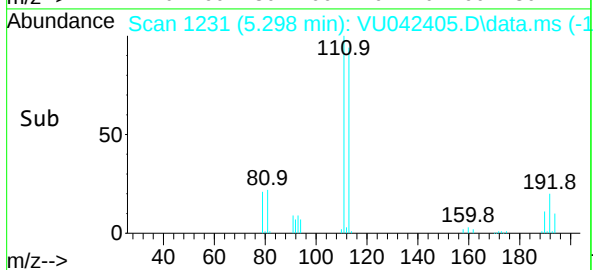
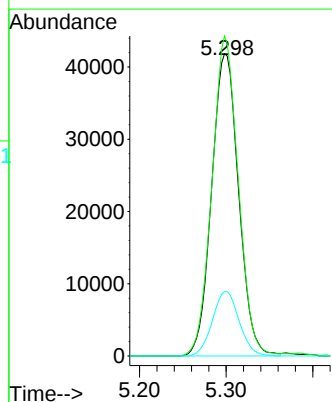
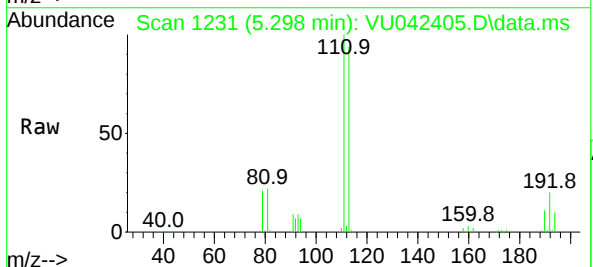
Instrument :  
MSVOA\_U  
ClientSampled :

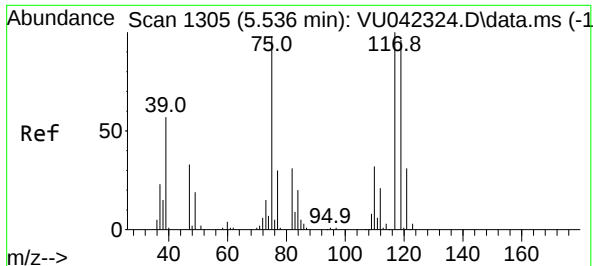
Tgt Ion:114 Resp: 268047  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 44.2  
88 16.1 0.0 33.4



#35  
Dibromofluoromethane  
Concen: 47.80 ug/l  
RT: 5.298 min Scan# 1231  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion:113 Resp: 90429  
Ion Ratio Lower Upper  
113 100  
111 103.1 81.8 122.8  
192 21.2 17.2 25.8

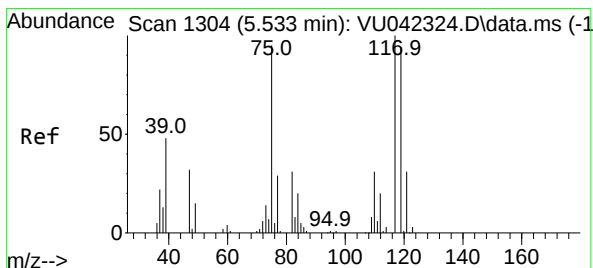
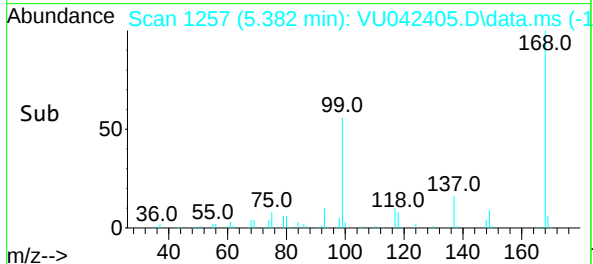
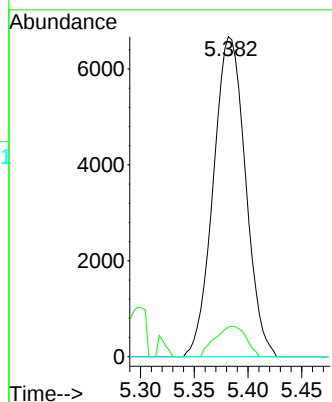
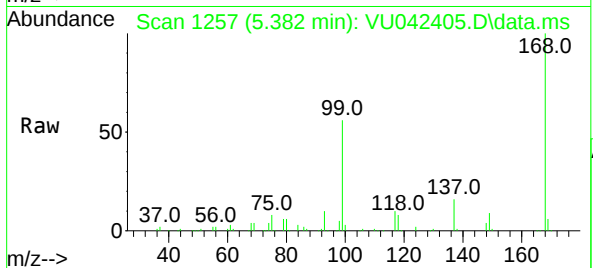




#36  
1,1-Dichloropropene  
Concen: 5.24 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.155 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

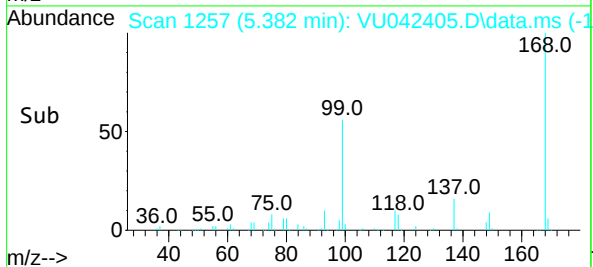
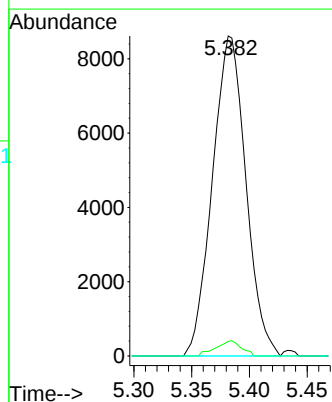
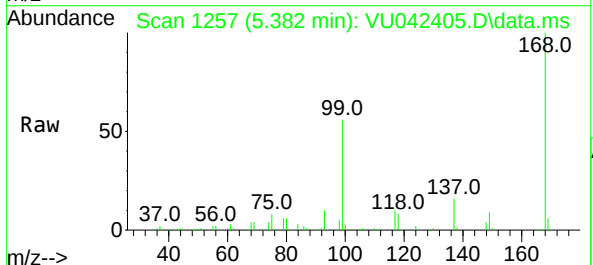
Instrument :  
MSVOA\_U  
ClientSampleId :

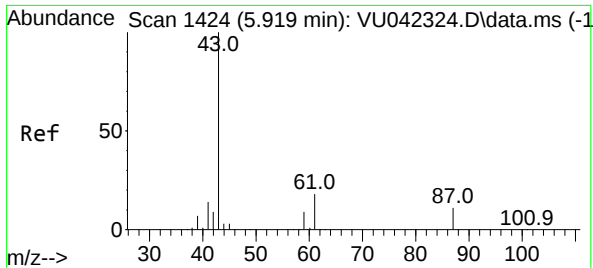
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Ion Ratio Lower Upper  
75 100  
110 9.1 16.8 50.3#  
77 0.0 24.8 37.2#



#38  
Carbon Tetrachloride  
Concen: 6.12 ug/l  
RT: 5.382 min Scan# 1257  
Delta R.T. -0.151 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 117 Resp: 17329  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.5 113.3#  
121 0.0 24.7 37.1#

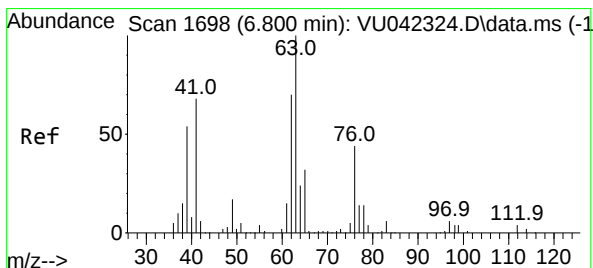
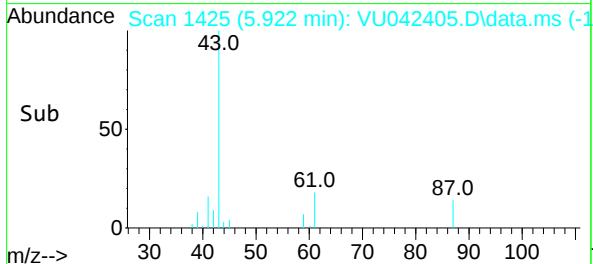
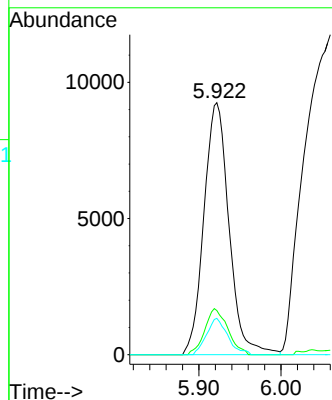
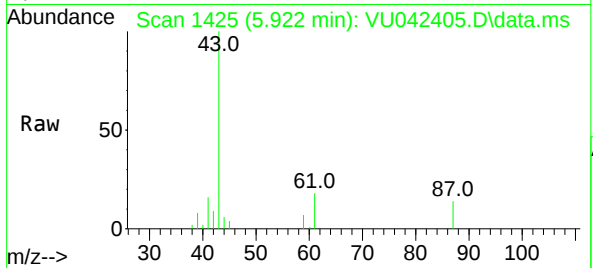




#43  
Isopropyl Acetate  
Concen: 3.25 ug/l  
RT: 5.922 min Scan# 1425  
Delta R.T. 0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

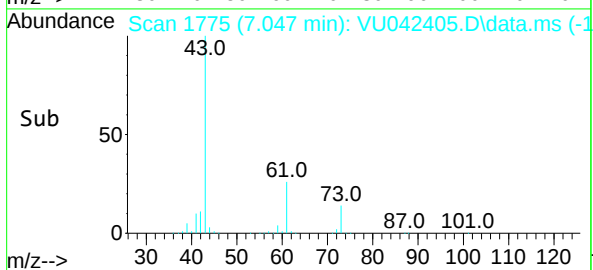
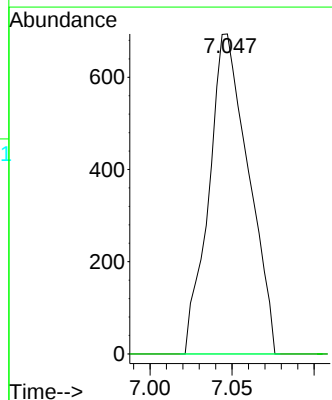
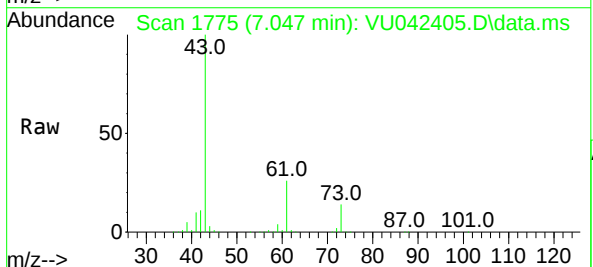
Instrument :  
MSVOA\_U  
ClientSampled :

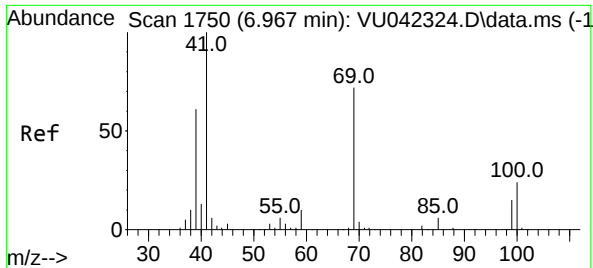
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 19658 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 16.8     | 14.4 21.6   |
| 87 12.2     | 8.8 13.2    |



#45  
1,2-Dichloropropane  
Concen: 0.56 ug/l  
RT: 7.047 min Scan# 1775  
Delta R.T. 0.247 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 1164  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 65 0.0      | 25.4 38.2#  |

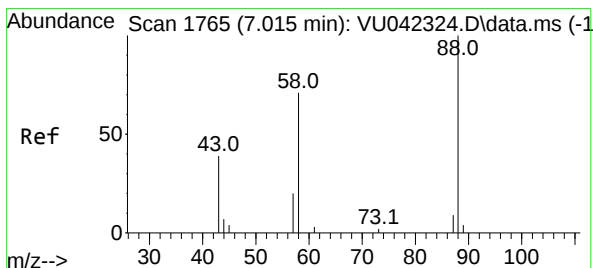
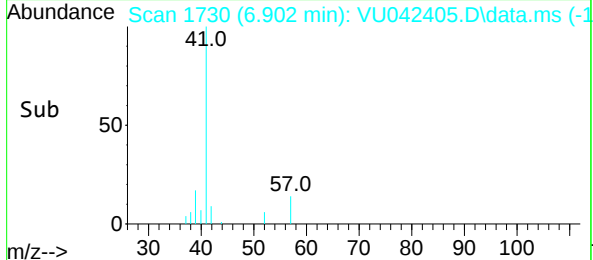
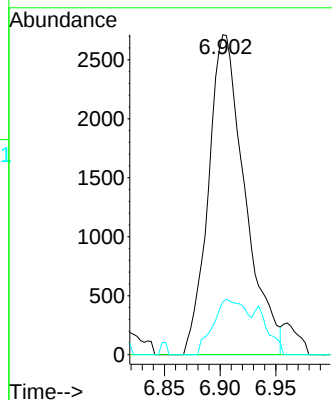
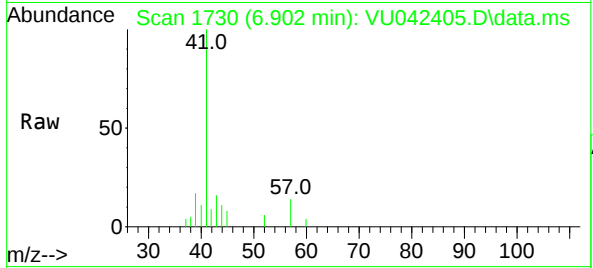




#48  
Methyl methacrylate  
Concen: 2.07 ug/l  
RT: 6.902 min Scan# 1730  
Delta R.T. -0.065 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

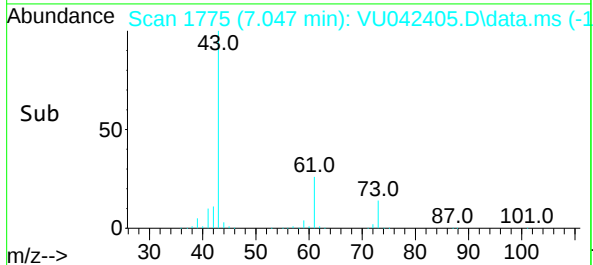
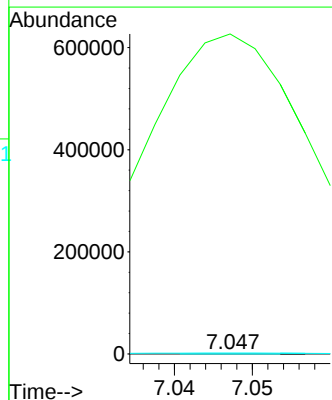
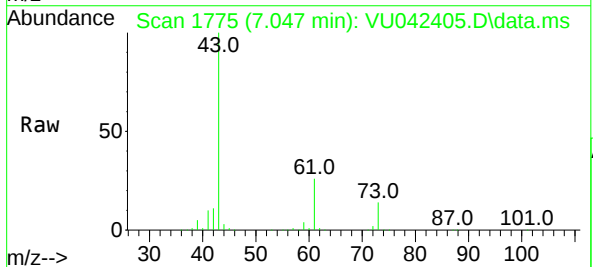
Instrument :  
MSVOA\_U  
ClientSampled :

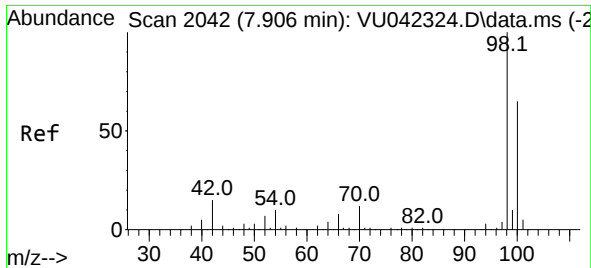
Tgt Ion: 41 Resp: 6187  
Ion Ratio Lower Upper  
41 100  
69 0.0 57.0 85.6#  
39 0.0 48.4 72.6#



#49  
1,4-Dioxane  
Concen: 0.35 ug/l  
RT: 7.047 min Scan# 1775  
Delta R.T. 0.032 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 5610575.0 0.0 0.0#  
58 18040.0 60.4 90.6#

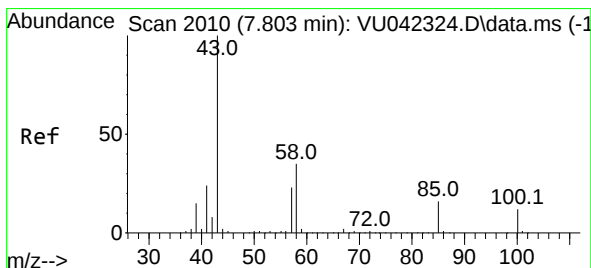
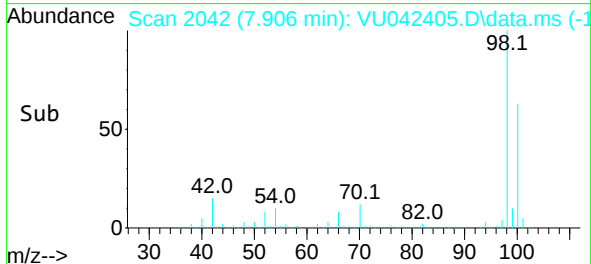
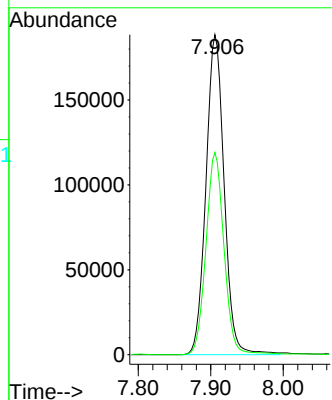
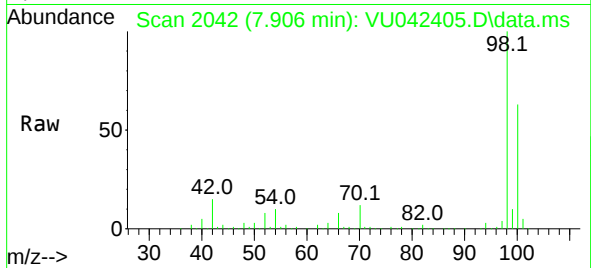




#50  
Toluene-d8  
Concen: 48.49 ug/l  
RT: 7.906 min Scan# 2042  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

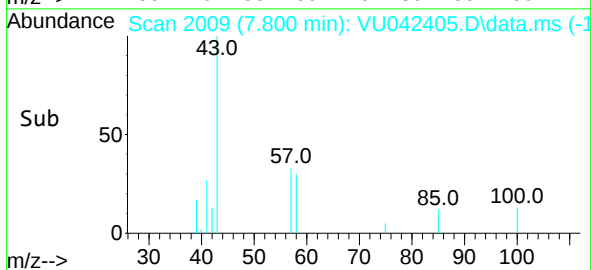
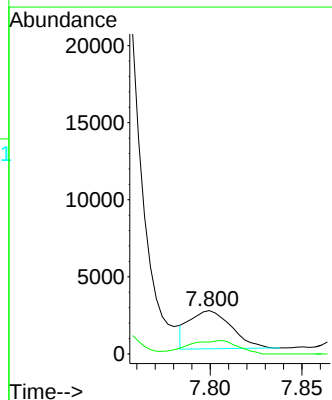
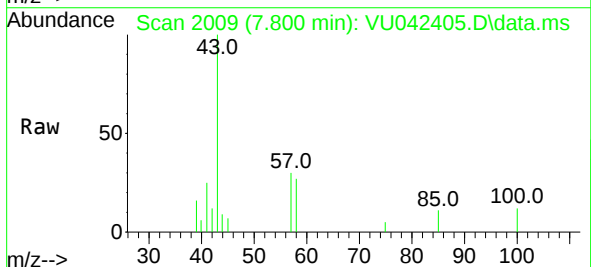
Instrument :  
MSVOA\_U  
ClientSampled :

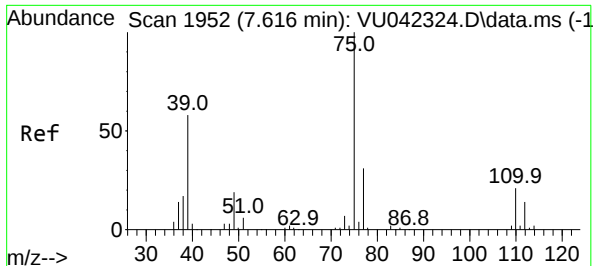
Tgt Ion: 98 Resp: 328599  
Ion Ratio Lower Upper  
98 100  
100 62.9 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 0.96 ug/l  
RT: 7.800 min Scan# 2009  
Delta R.T. -0.003 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 43 Resp: 3939  
Ion Ratio Lower Upper  
43 100  
58 41.8 28.1 42.1

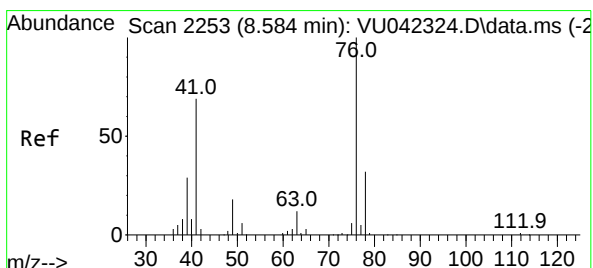
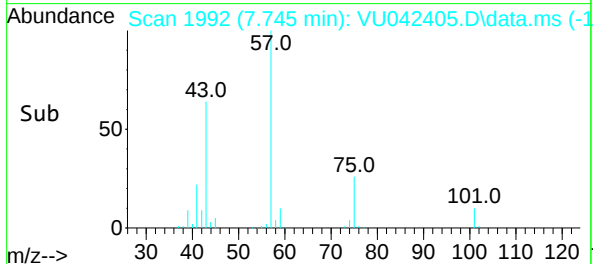
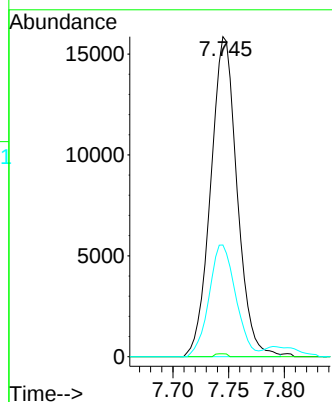
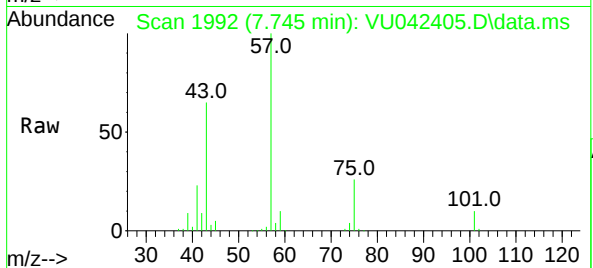




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.92 ug/l  
 RT: 7.745 min Scan# 1992  
 Delta R.T. 0.128 min  
 Lab File: VU042405.D  
 Acq: 22 Feb 2021 19:06

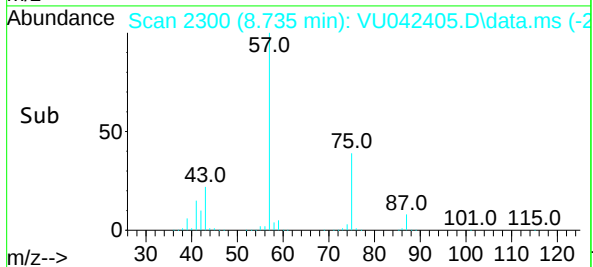
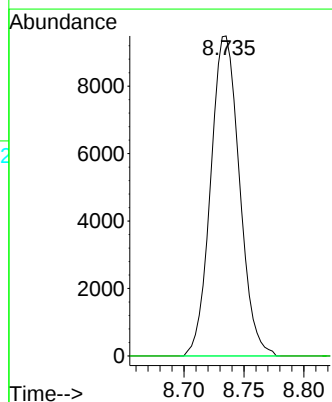
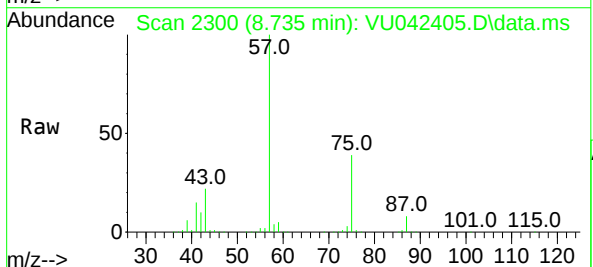
Instrument :  
 MSVOA\_U  
 ClientSampled :

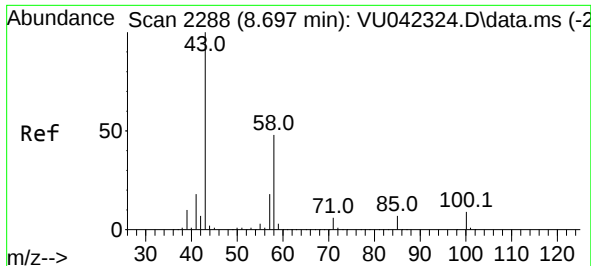
Tgt Ion: 75 Resp: 26140  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 24.6 37.0#  
 39 34.9 46.1 69.1#



#57  
 1,3-Dichloropropane  
 Concen: 4.75 ug/l  
 RT: 8.735 min Scan# 2300  
 Delta R.T. 0.151 min  
 Lab File: VU042405.D  
 Acq: 22 Feb 2021 19:06

Tgt Ion: 76 Resp: 15839  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.7 38.5#

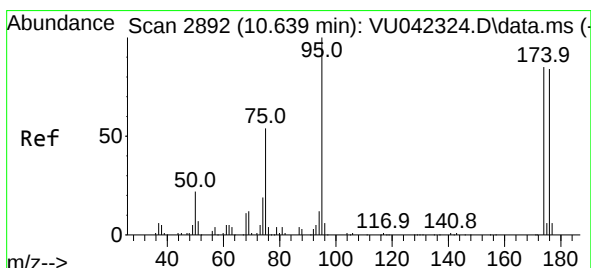
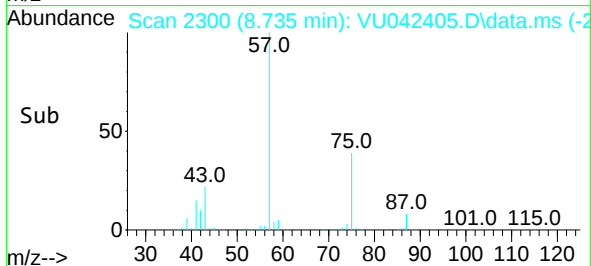
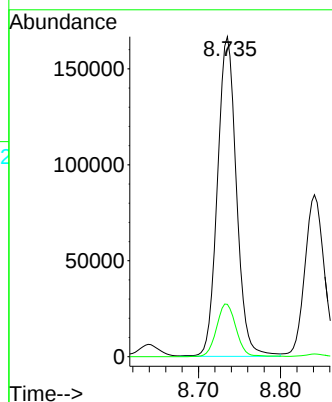
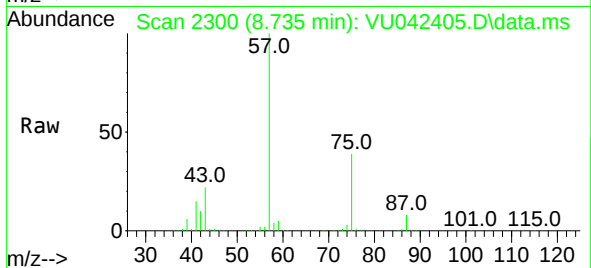




#59  
2-Hexanone  
Concen: 82.11 ug/l  
RT: 8.735 min Scan# 2300  
Delta R.T. 0.038 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

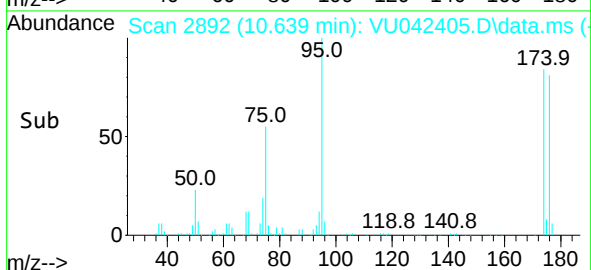
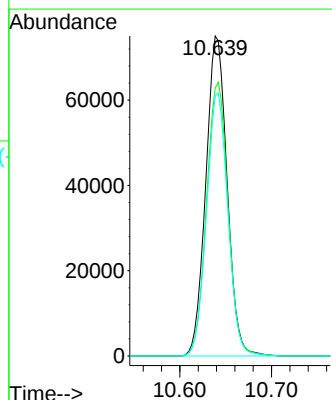
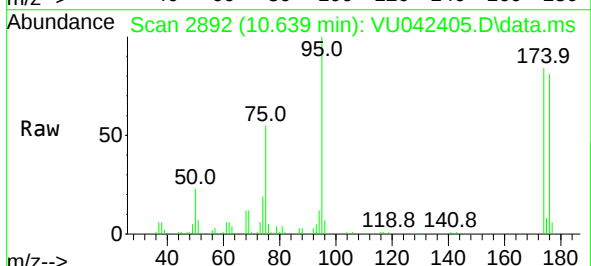
Instrument :  
MSVOA\_U  
ClientSampled :

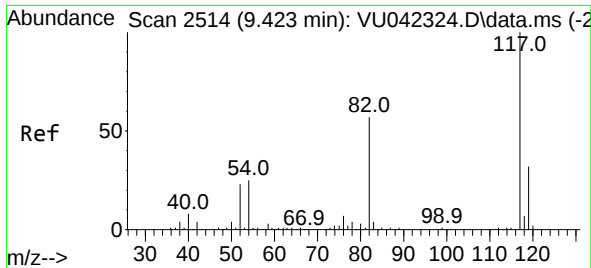
Tgt Ion: 43 Resp: 268877  
Ion Ratio Lower Upper  
43 100  
58 17.1 24.0 72.0#



#62  
4-Bromofluorobenzene  
Concen: 45.31 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 95 Resp: 121007  
Ion Ratio Lower Upper  
95 100  
174 86.6 0.0 172.2  
176 82.5 0.0 168.8

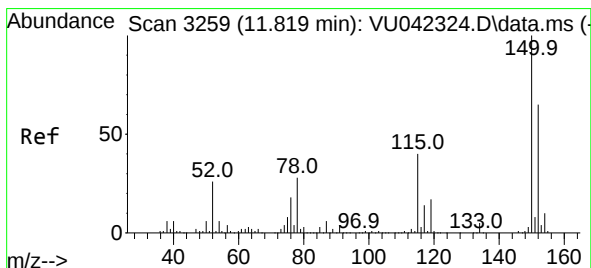
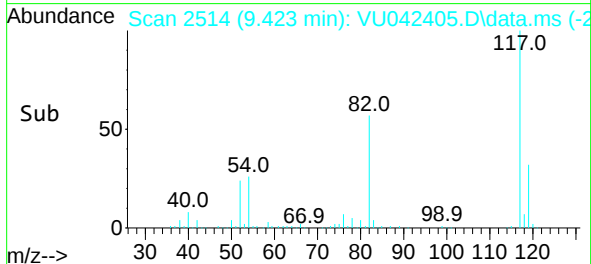
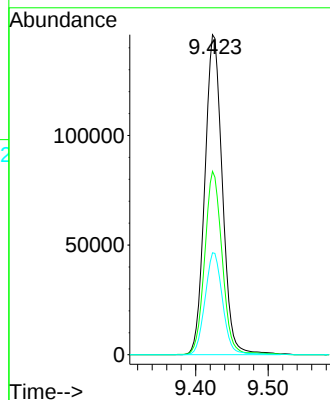
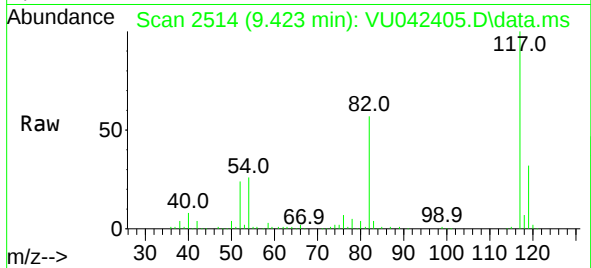




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.423 min Scan# 2514  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

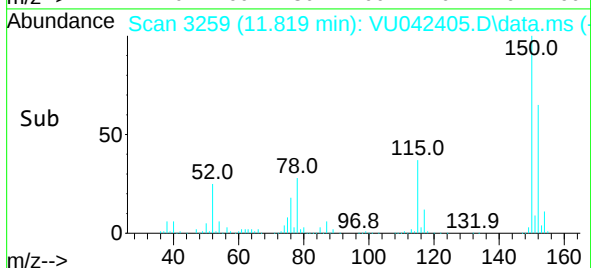
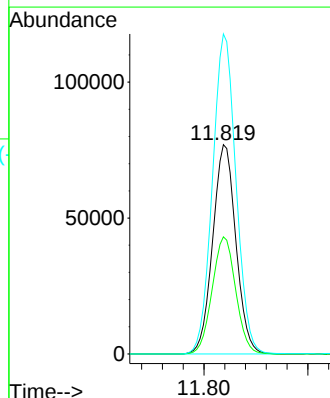
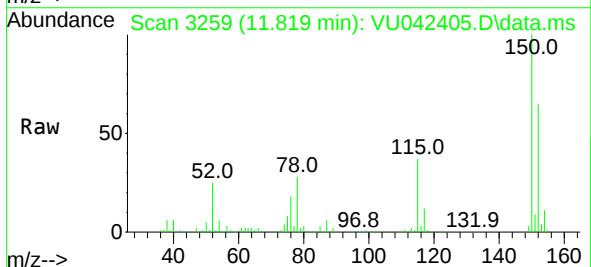
Instrument :  
MSVOA\_U  
ClientSampled :

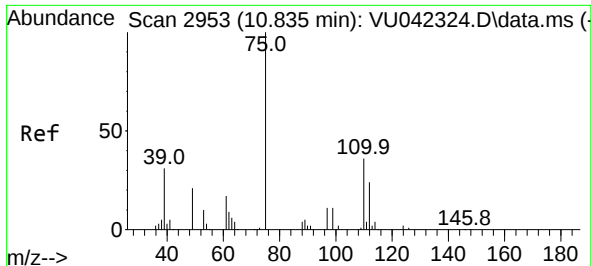
Tgt Ion:117 Resp: 245403  
Ion Ratio Lower Upper  
117 100  
82 57.2 45.8 68.6  
119 31.9 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.819 min Scan# 3259  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion:152 Resp: 119343  
Ion Ratio Lower Upper  
152 100  
115 56.8 41.5 124.6  
150 154.9 0.0 342.4

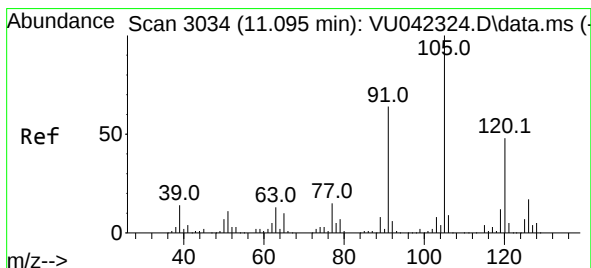
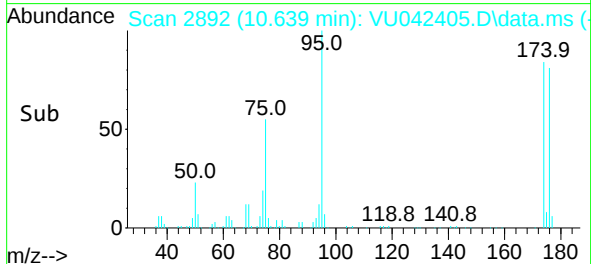
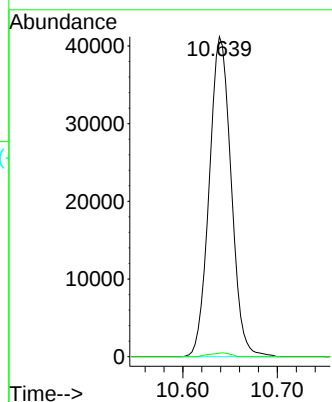
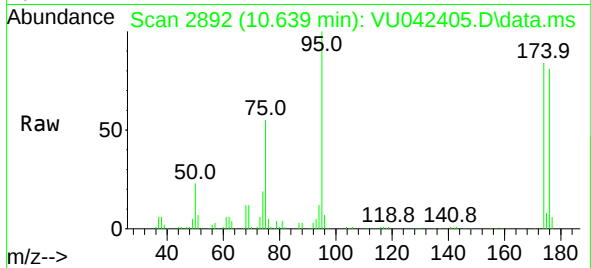




#76  
1,2,3-Trichloropropane  
Concen: 22.47 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. -0.196 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

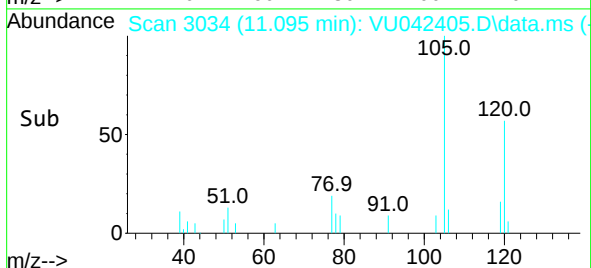
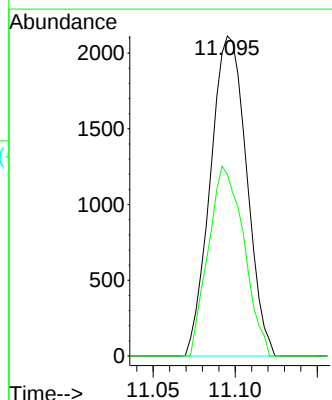
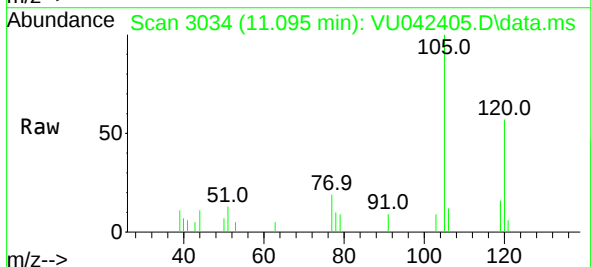
Instrument :  
MSVOA\_U  
ClientSampled :

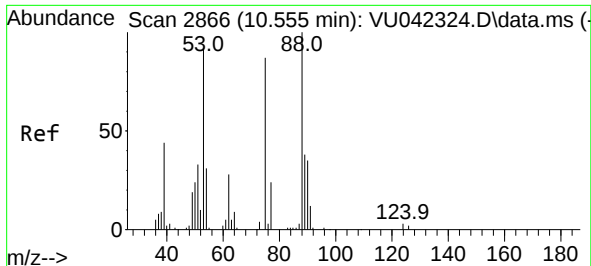
Tgt Ion: 75 Resp: 66312  
Ion Ratio Lower Upper  
75 100  
77 1.1 20.2 60.5#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.47 ug/l  
RT: 11.095 min Scan# 3034  
Delta R.T. -0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

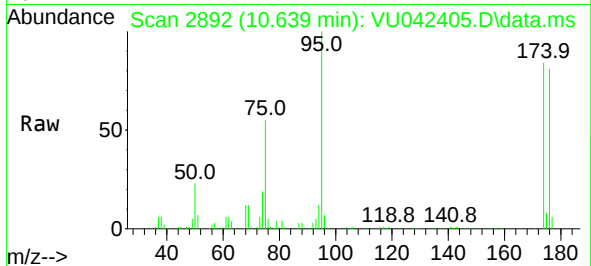
Tgt Ion: 105 Resp: 3238  
Ion Ratio Lower Upper  
105 100  
120 58.0 23.8 71.4



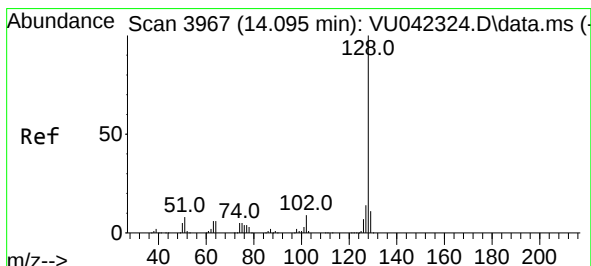
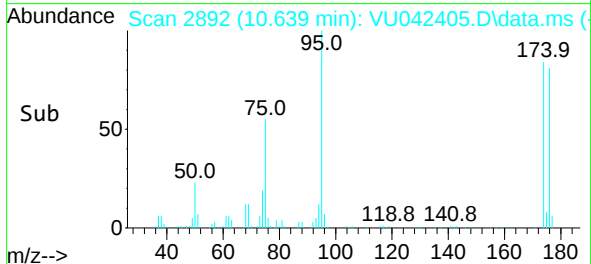
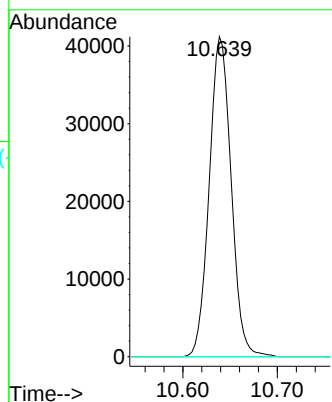


#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.10 ug/l  
RT: 10.639 min Scan# 2892  
Delta R.T. 0.083 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Instrument :  
MSVOA\_U  
ClientSampled :



Tgt Ion: 75 Resp: 66312  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.6 128.4#  
89 0.0 35.7 53.5#



#95  
Naphthalene  
Concen: 2.25 ug/l  
RT: 14.095 min Scan# 3967  
Delta R.T. 0.000 min  
Lab File: VU042405.D  
Acq: 22 Feb 2021 19:06

Tgt Ion: 128 Resp: 331  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.8 16.2#  
129 0.0 8.6 13.0#

