

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072123\  
 Data File : VY014754.D  
 Acq On : 21 Jul 2023 18:05  
 Operator : SY/MD  
 Sample : 03706-04  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B-P10B

Quant Time: Jul 22 05:40:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 249      | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 685      | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.496 | 117  | 455      | 50.000 | ug/l  | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 102      | 50.000 | ug/l  | # 0.00   |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.149  | 65    | 288      | 101.500  | ug/l | 0.01      |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 203.000%# |
| 35) Dibromofluoromethane    | 7.722  | 113   | 20       | 4.587    | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 9.180%#   |
| 50) Toluene-d8              | 10.179 | 98    | 680      | 42.298   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 84.600%   |
| 62) 4-Bromofluorobenzene    | 12.489 | 95    | 121      | 19.629   | ug/l | 0.01      |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 39.260%   |

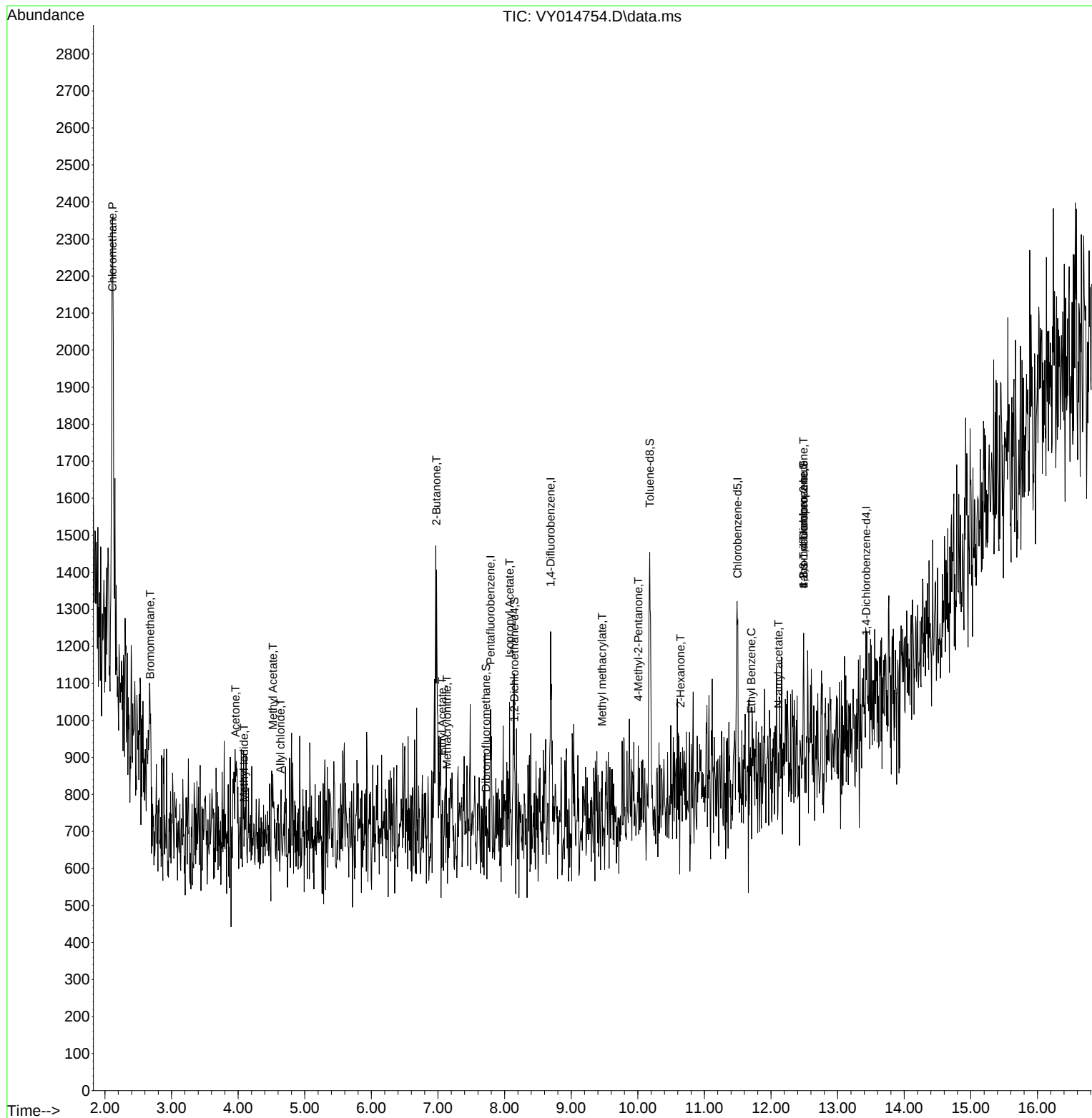
| Target Compounds              |        |     |     |         |        | Qvalue |
|-------------------------------|--------|-----|-----|---------|--------|--------|
| 3) Chloromethane              | 2.113  | 50  | 24  | 10.525  | ug/l # | 43     |
| 5) Bromomethane               | 2.680  | 94  | 41  | 24.343  | ug/l   | 95     |
| 10) Methyl Iodide             | 4.088  | 142 | 27  | 11.618  | ug/l # | 38     |
| 14) Allyl chloride            | 4.637  | 41  | 27  | 6.202   | ug/l # | 22     |
| 16) Acetone                   | 3.960  | 43  | 315 | 350.330 | ug/l # | 46     |
| 18) Methyl Acetate            | 4.521  | 43  | 20  | 5.796   | ug/l # | 54     |
| 25) 2-Butanone                | 6.978  | 43  | 81  | 61.576  | ug/l # | 49     |
| 37) Ethyl Acetate             | 7.063  | 43  | 44  | 9.800   | ug/l # | 71     |
| 41) Methacrylonitrile         | 7.137  | 41  | 25  | 10.826  | ug/l # | 17     |
| 43) Isopropyl Acetate         | 8.075  | 43  | 44  | 5.145   | ug/l # | 55     |
| 48) Methyl methacrylate       | 9.465  | 41  | 20  | 5.197   | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone      | 10.008 | 43  | 20  | 4.454   | ug/l # | 39     |
| 59) 2-Hexanone                | 10.642 | 43  | 19  | 5.802   | ug/l # | 27     |
| 67) Ethyl Benzene             | 11.703 | 91  | 19  | 1.085   | ug/l # | 44     |
| 74) N-amyl acetate            | 12.111 | 43  | 46  | 17.197  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75  | 26  | 20.183  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75  | 26  | 39.077  | ug/l # | 10     |

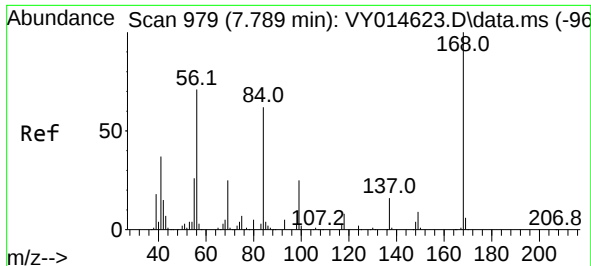
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072123\  
Data File : VY014754.D  
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Operator : SY/MD  
Sample : 03706-04  
Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

Quant Time: Jul 22 05:40:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
Response via : Initial Calibration

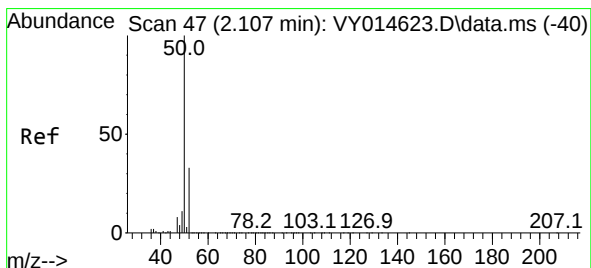
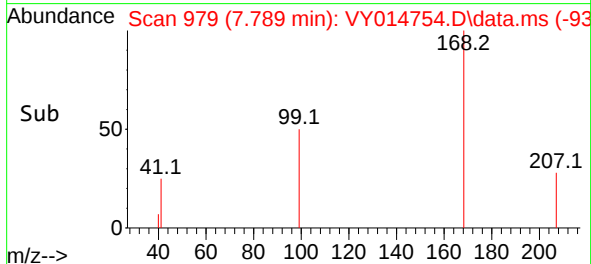
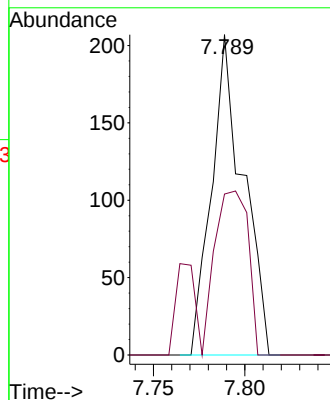
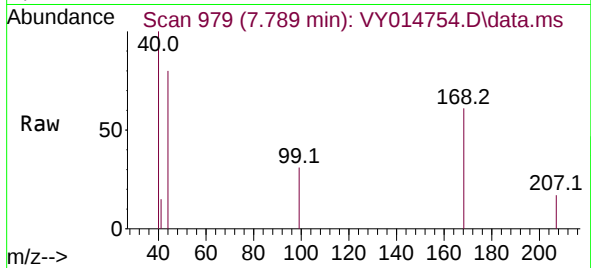




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

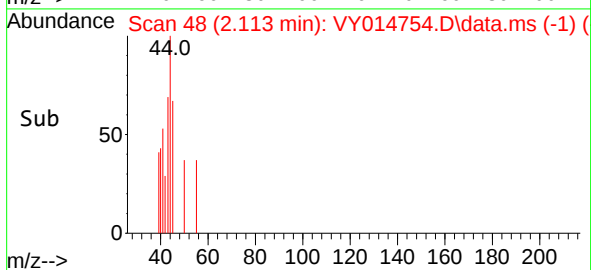
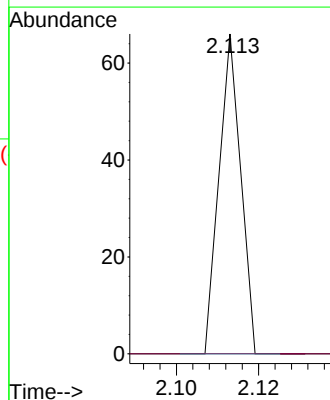
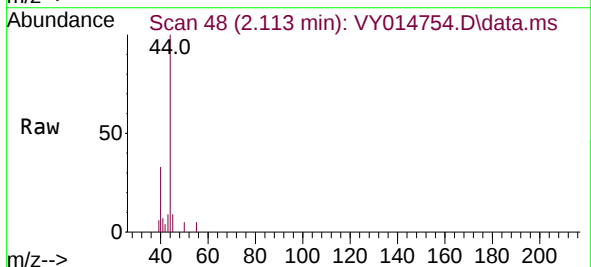
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MSVOA\_Y  
ClientSampleId :  
B-P10B

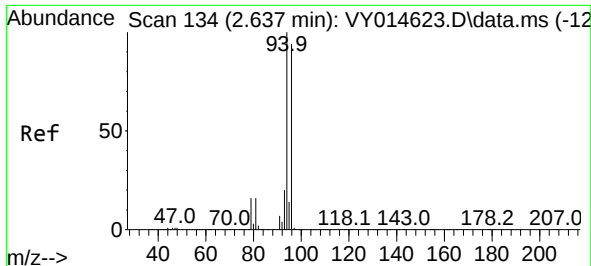
Tgt Ion:168 Resp: 249  
Ion Ratio Lower Upper  
168 100  
99 50.2 43.4 65.0



#3  
Chloromethane  
Concen: 10.525 ug/l  
RT: 2.113 min Scan# 48  
Delta R.T. 0.006 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion: 50 Resp: 24  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#

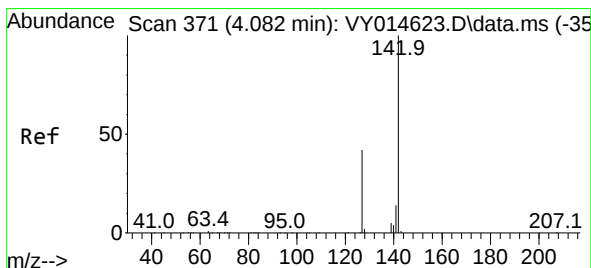
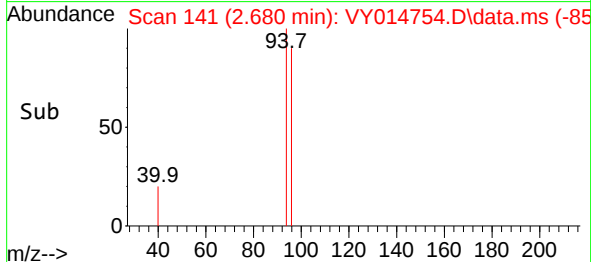
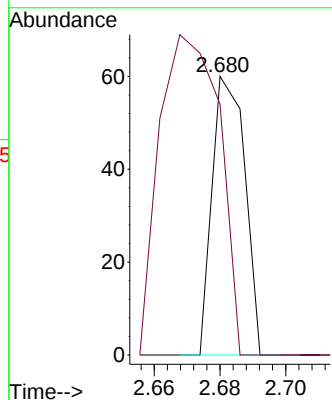
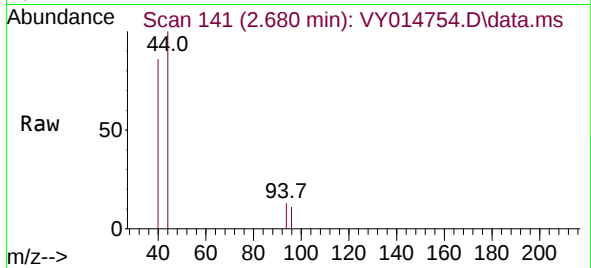




#5  
Bromomethane  
Concen: 24.343 ug/l  
RT: 2.680 min Scan# 141  
Delta R.T. 0.043 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

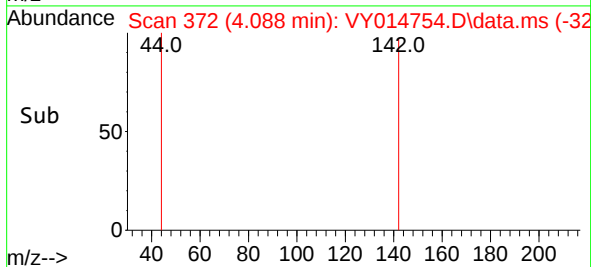
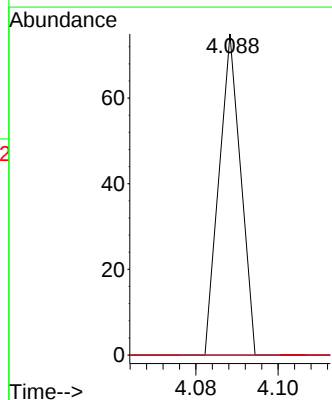
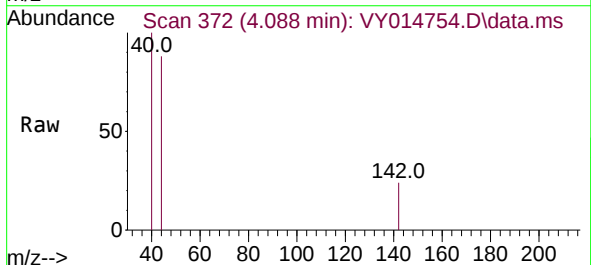
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

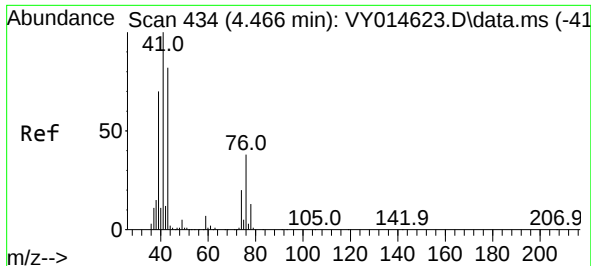
Tgt Ion: 94 Resp: 41  
Ion Ratio Lower Upper  
94 100  
96 90.0 75.8 113.6



#10  
Methyl Iodide  
Concen: 11.618 ug/l  
RT: 4.088 min Scan# 372  
Delta R.T. 0.006 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion:142 Resp: 27  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#

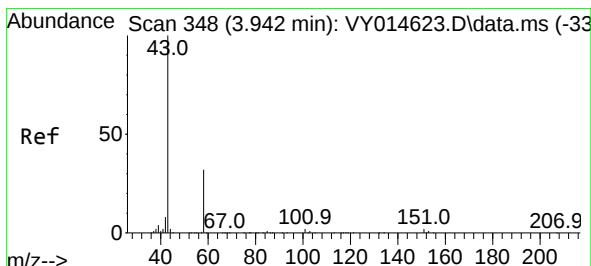
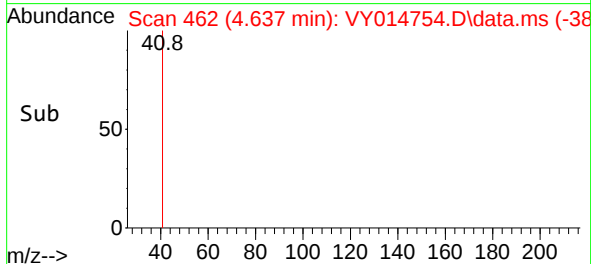
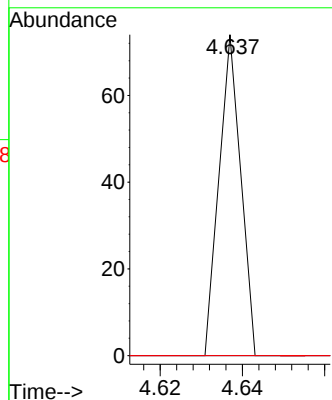
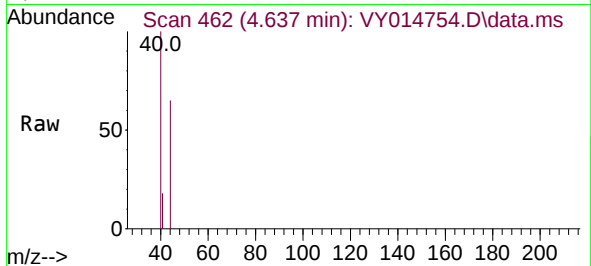




#14  
 Allyl chloride  
 Concen: 6.202 ug/l  
 RT: 4.637 min Scan# 41  
 Delta R.T. 0.171 min  
 Lab File: VY014754.D  
 Acq: 21 Jul 2023 18:05

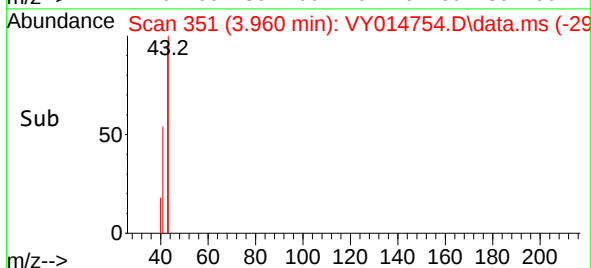
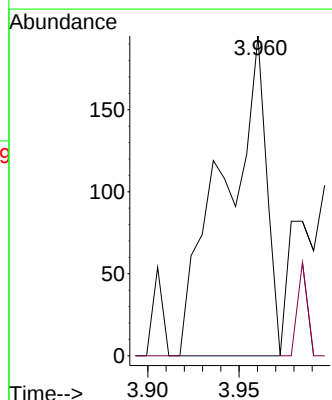
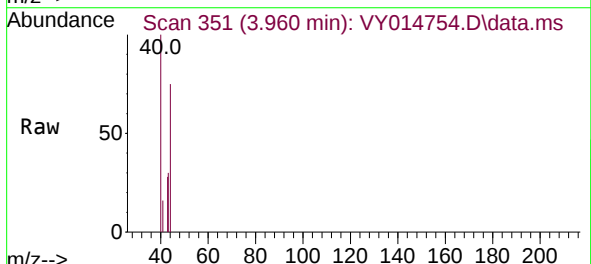
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B-P10B

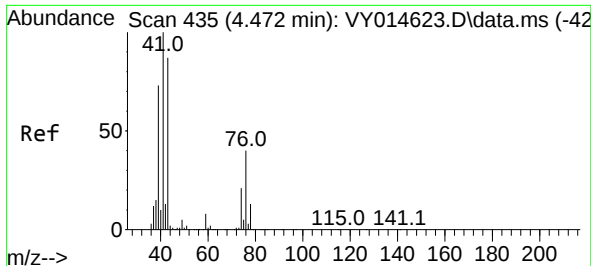
Tgt Ion: 41 Resp: 27  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 58.0 87.0#  
 76 0.0 27.4 41.2#



#16  
 Acetone  
 Concen: 350.330 ug/l  
 RT: 3.960 min Scan# 351  
 Delta R.T. 0.018 min  
 Lab File: VY014754.D  
 Acq: 21 Jul 2023 18:05

Tgt Ion: 43 Resp: 315  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 22.7 34.1#

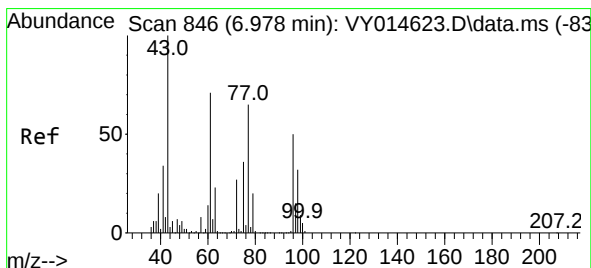
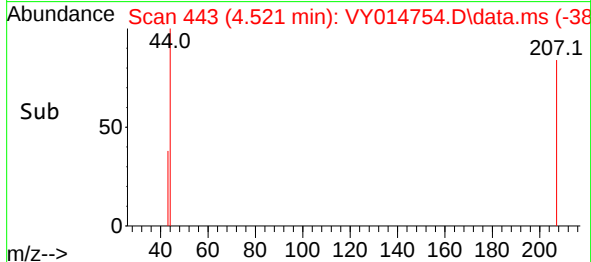
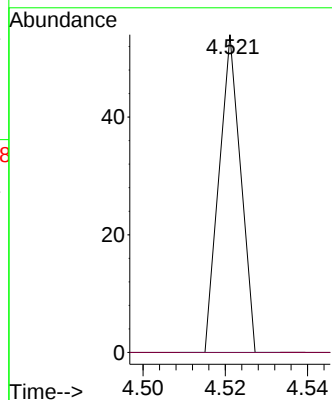
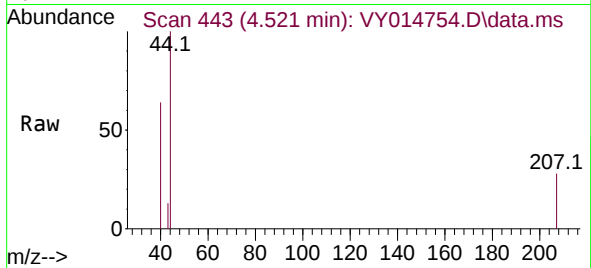




#18  
Methyl Acetate  
Concen: 5.796 ug/l  
RT: 4.521 min Scan# 44  
Delta R.T. 0.049 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

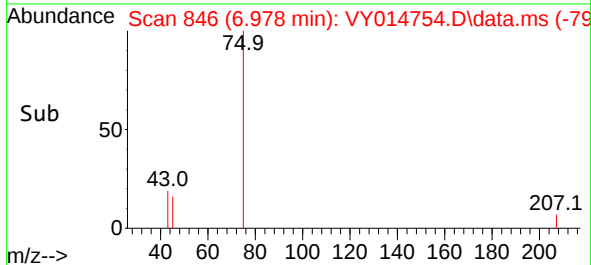
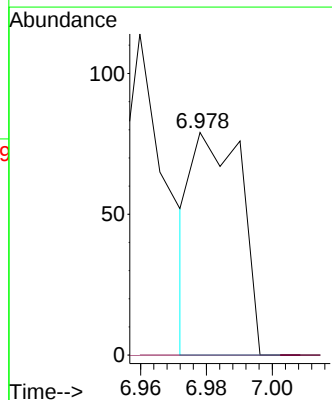
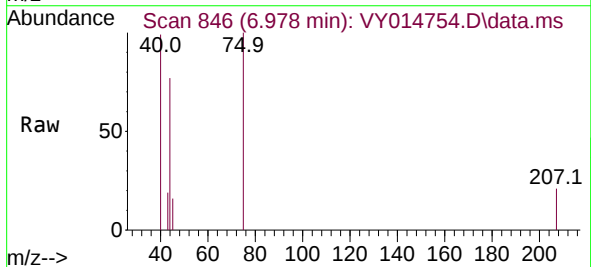
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

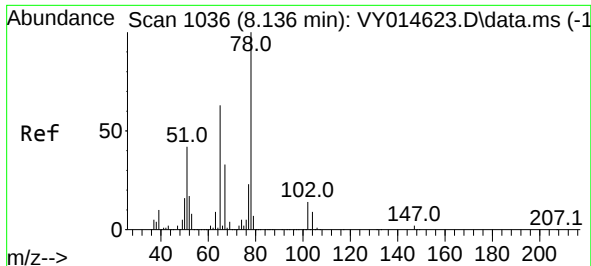
Tgt Ion: 43 Resp: 20  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.4 26.0#



#25  
2-Butanone  
Concen: 61.576 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion: 43 Resp: 81  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.5 30.7#





#33

1,2-Dichloroethane-d4

Concen: 101.500 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.013 min

Lab File: VY014754.D

Acq: 21 Jul 2023 18:05

Instrument :

MSVOA\_Y

ClientSampleId :

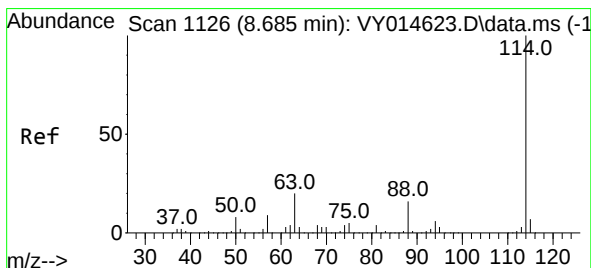
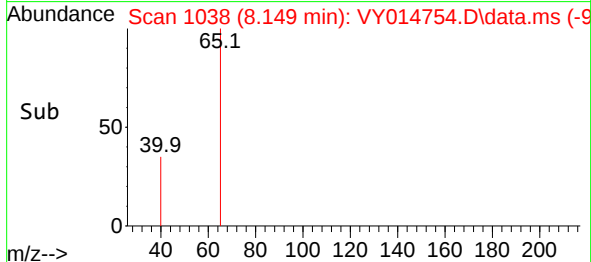
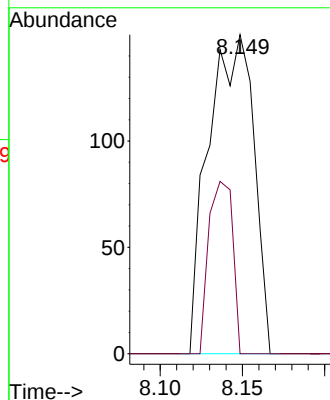
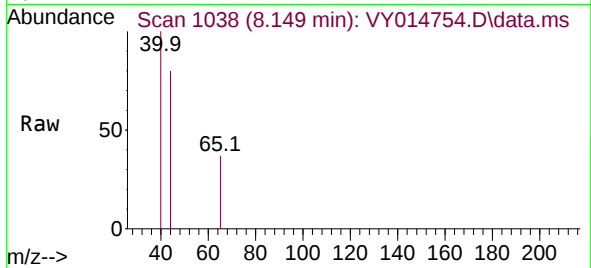
B-P10B

Tgt Ion: 65 Resp: 288

Ion Ratio Lower Upper

65 100

67 28.5 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY014754.D

Acq: 21 Jul 2023 18:05

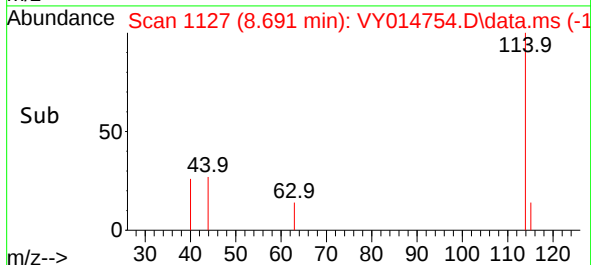
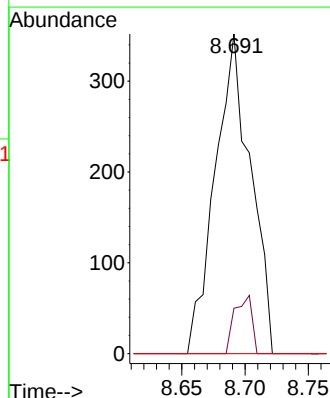
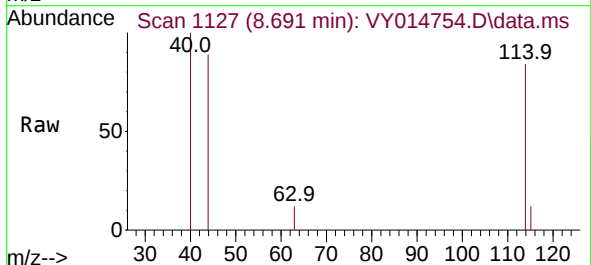
Tgt Ion: 114 Resp: 685

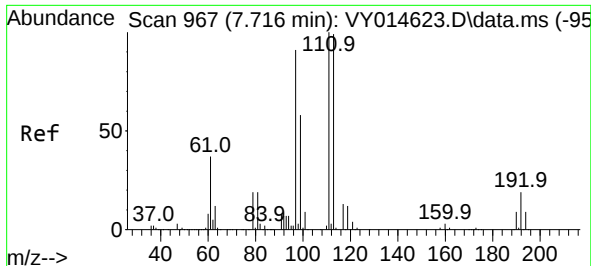
Ion Ratio Lower Upper

114 100

63 14.2 0.0 42.4

88 0.0 0.0 30.6

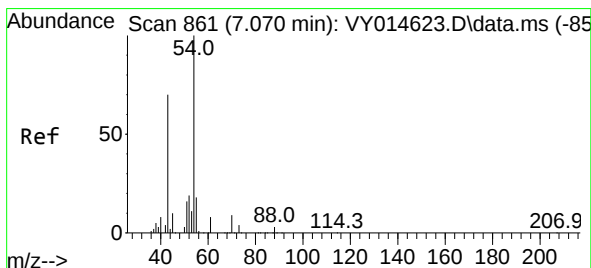
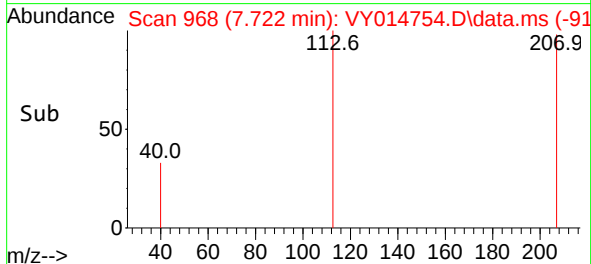
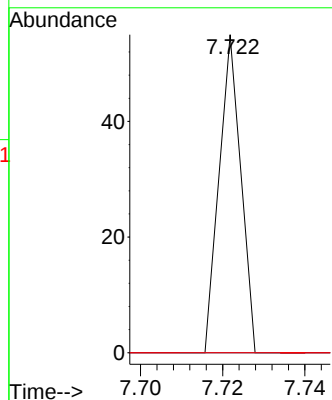
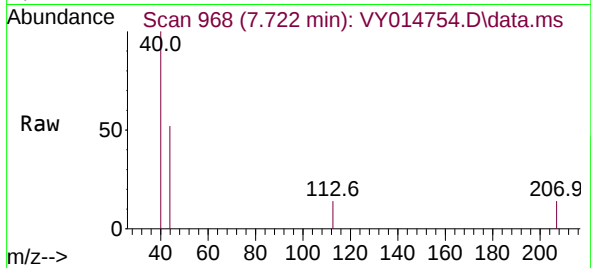




#35  
Dibromofluoromethane  
Concen: 4.587 ug/l  
RT: 7.722 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

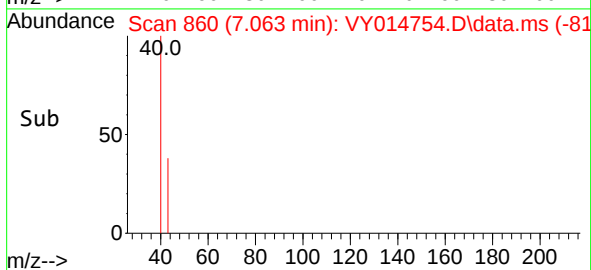
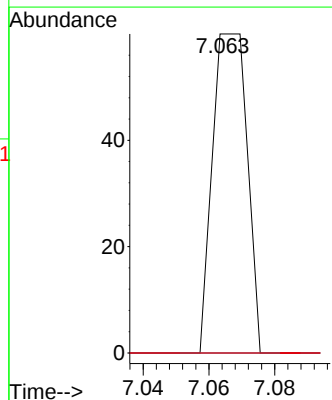
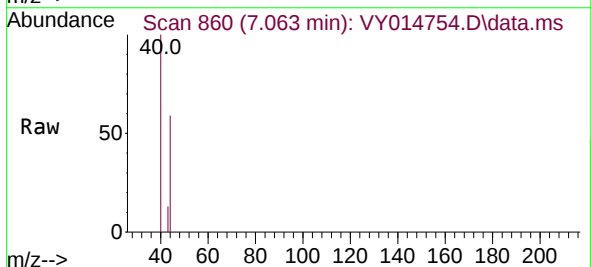
Instrument :  
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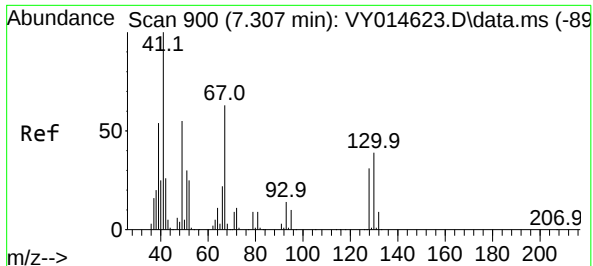
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Ion Ratio Lower Upper  
113 100  
111 0.0 81.3 121.9#  
192 0.0 16.9 25.3#



#37  
Ethyl Acetate  
Concen: 9.800 ug/l  
RT: 7.063 min Scan# 860  
Delta R.T. -0.007 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

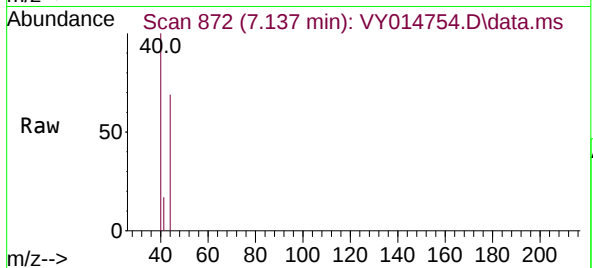
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Ion Ratio Lower Upper  
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70 0.0 7.1 10.7#



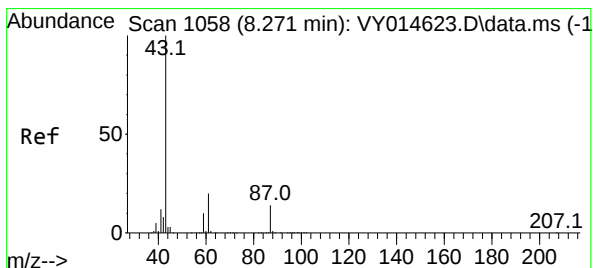
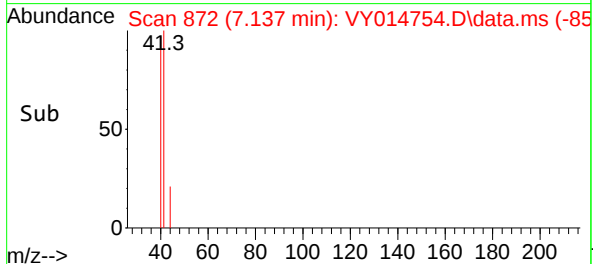
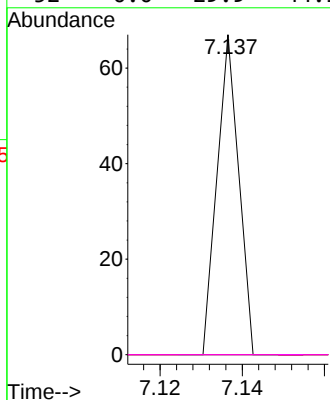


#41  
Methacrylonitrile  
Concen: 10.826 ug/l  
RT: 7.137 min Scan# 81  
Delta R.T. -0.170 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

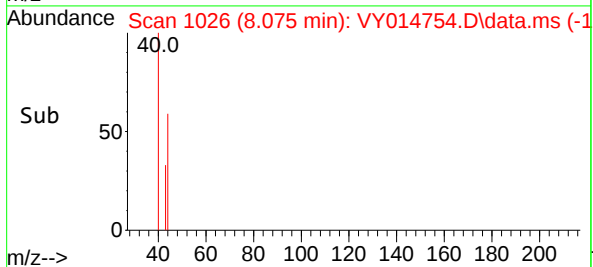
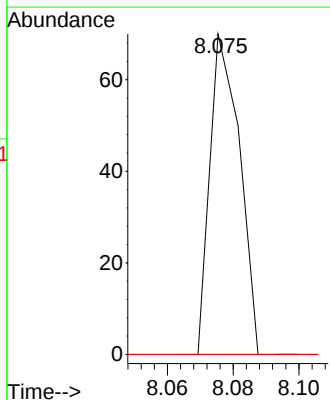
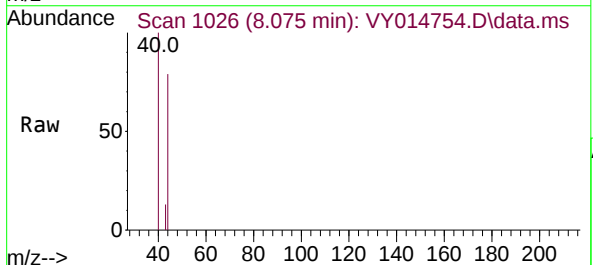


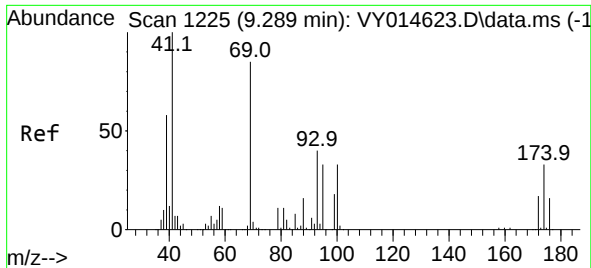
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 25    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 52.1  | 78.1# |
| 67       | 0.0   | 66.2  | 99.2# |
| 52       | 0.0   | 29.9  | 44.9# |



#43  
Isopropyl Acetate  
Concen: 5.145 ug/l  
RT: 8.075 min Scan# 1026  
Delta R.T. -0.196 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 44    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 21.1  | 31.7# |
| 87       | 0.0   | 9.8   | 14.8# |

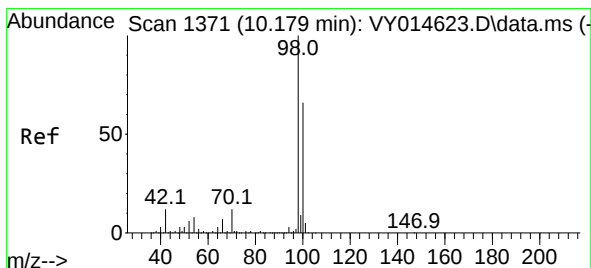
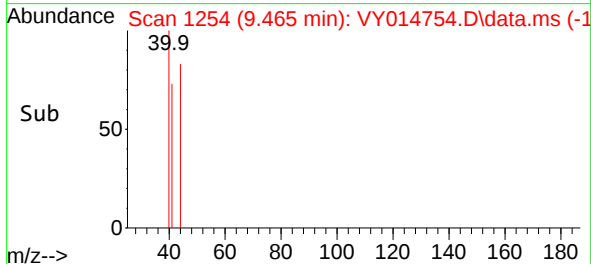
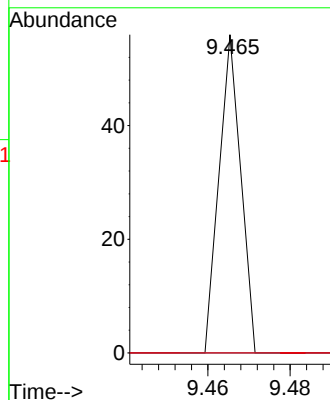
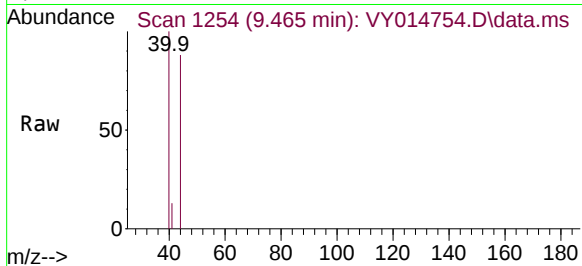




#48  
Methyl methacrylate  
Concen: 5.197 ug/l  
RT: 9.465 min Scan# 1254  
Delta R.T. 0.176 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

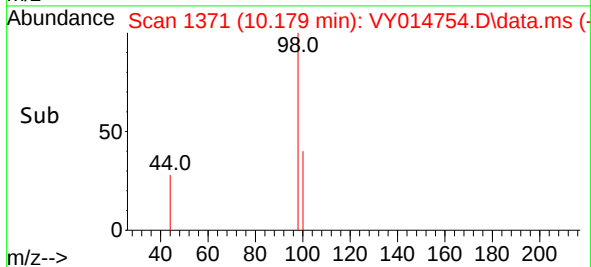
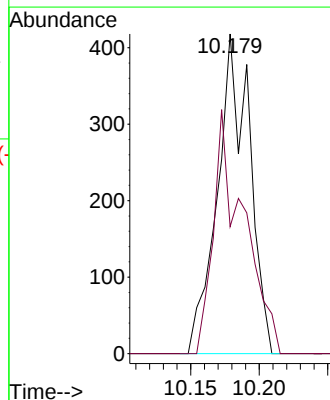
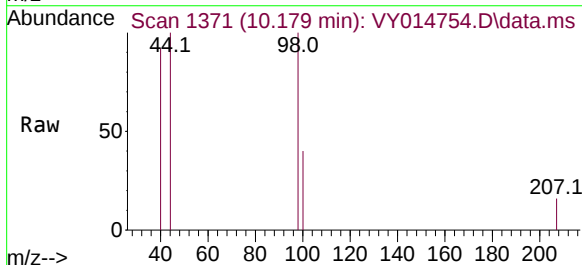
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

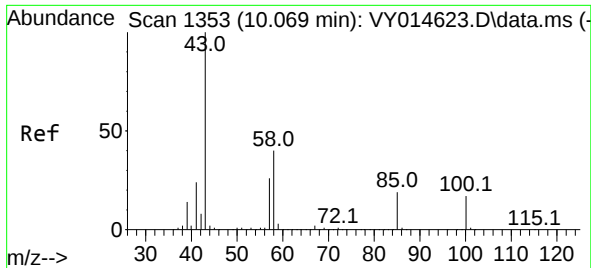
Tgt Ion: 41 Resp: 20  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.5 96.7#  
39 0.0 50.8 76.2#



#50  
Toluene-d8  
Concen: 42.298 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion: 98 Resp: 680  
Ion Ratio Lower Upper  
98 100  
100 71.6 50.1 75.1

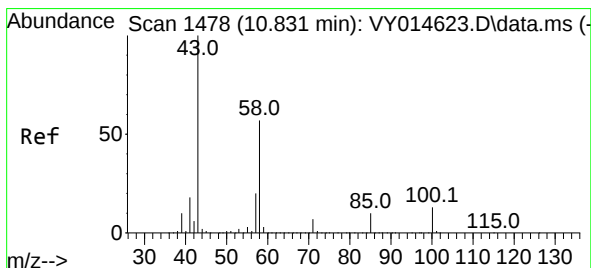
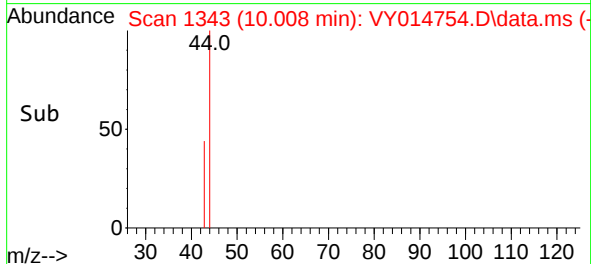
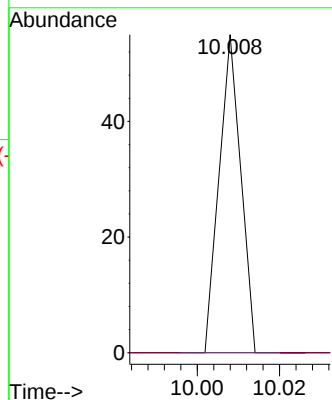
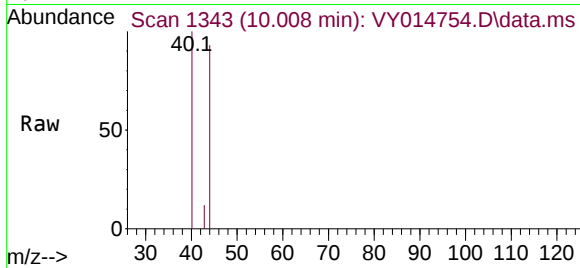




#51  
4-Methyl-2-Pentanone  
Concen: 4.454 ug/l  
RT: 10.008 min Scan# 11  
Delta R.T. -0.061 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

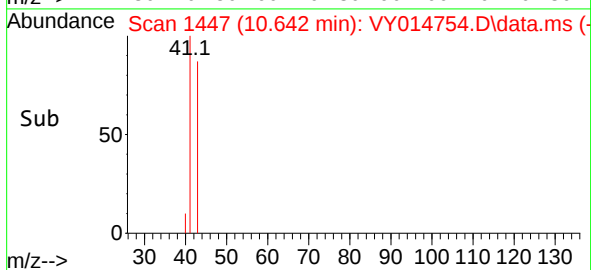
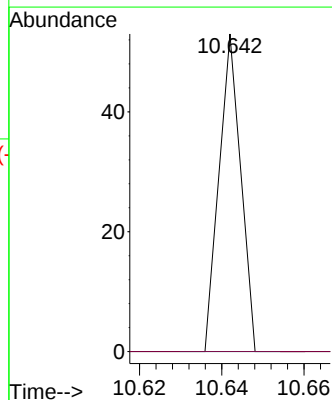
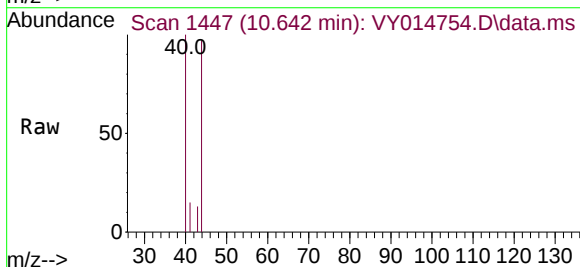
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

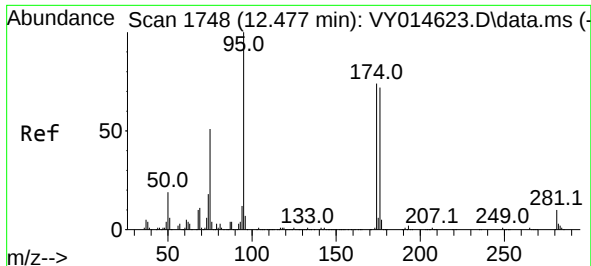
Tgt Ion: 43 Resp: 20  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.0 43.6#



#59  
2-Hexanone  
Concen: 5.802 ug/l  
RT: 10.642 min Scan# 1447  
Delta R.T. -0.189 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion: 43 Resp: 19  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.1 75.3#

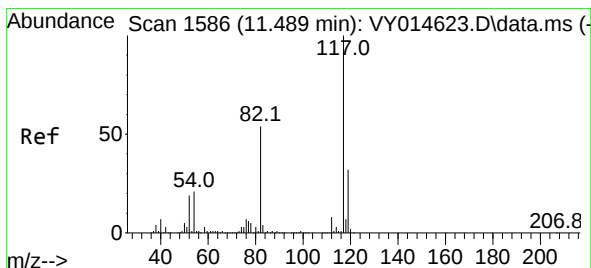
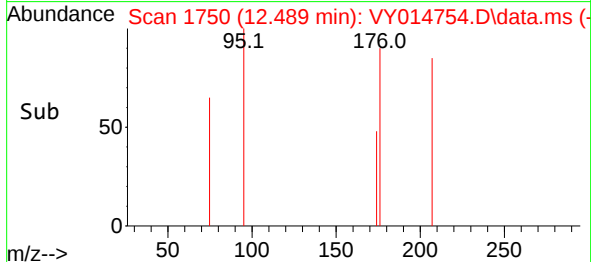
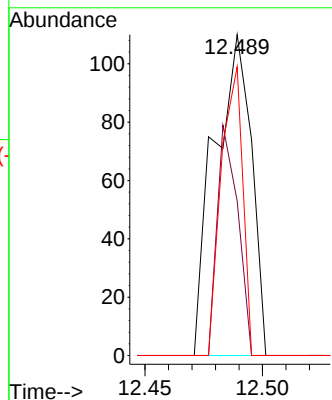
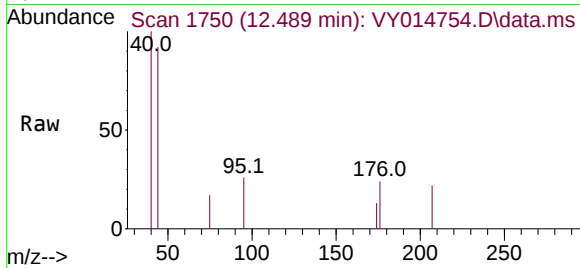




#62  
4-Bromofluorobenzene  
Concen: 19.629 ug/l  
RT: 12.489 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

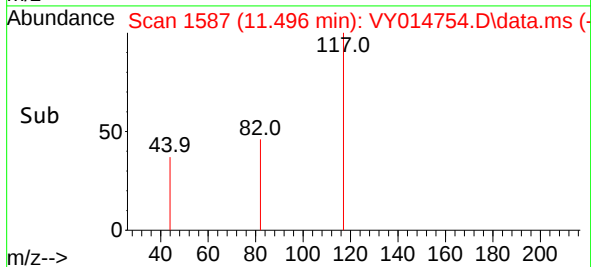
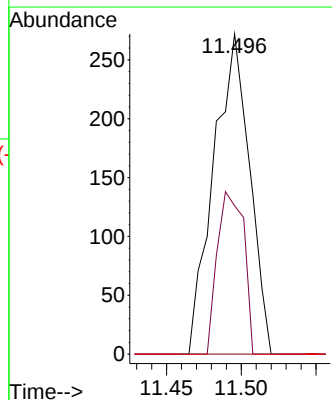
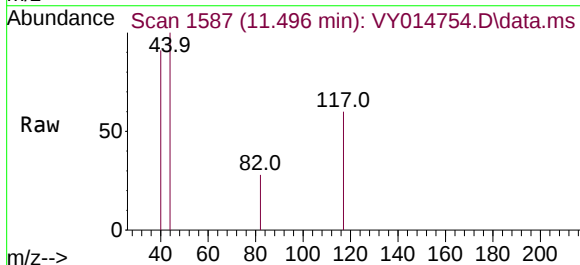
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

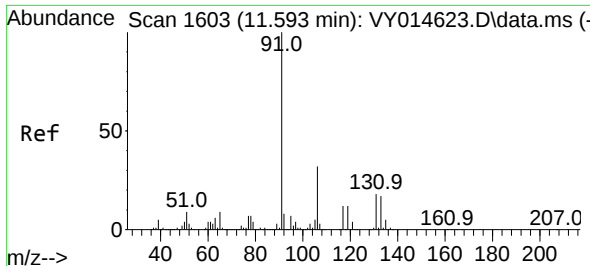
Tgt Ion: 95 Resp: 121  
Ion Ratio Lower Upper  
95 100  
174 39.7 0.0 178.2  
176 52.1 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion: 117 Resp: 455  
Ion Ratio Lower Upper  
117 100  
82 46.3 43.4 65.0  
119 0.0 26.3 39.5#

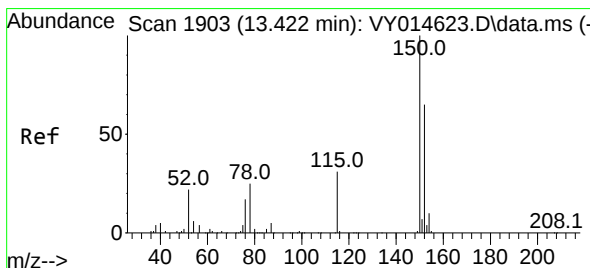
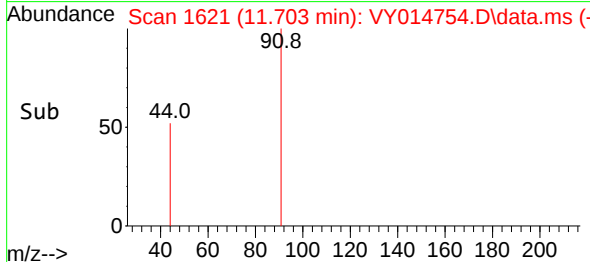
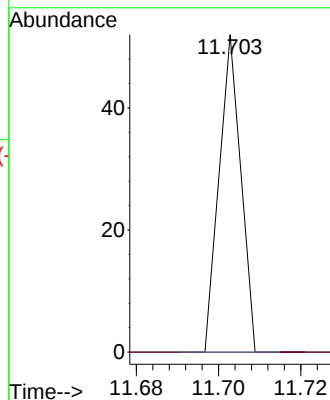
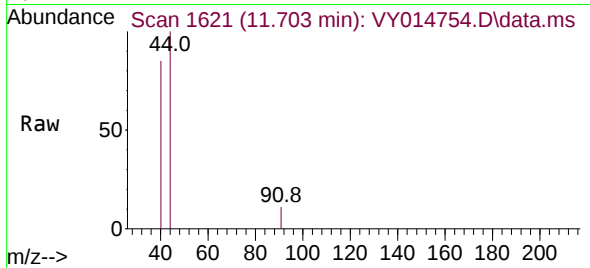




#67  
Ethyl Benzene  
Concen: 1.085 ug/l  
RT: 11.703 min Scan# 11  
Delta R.T. 0.110 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

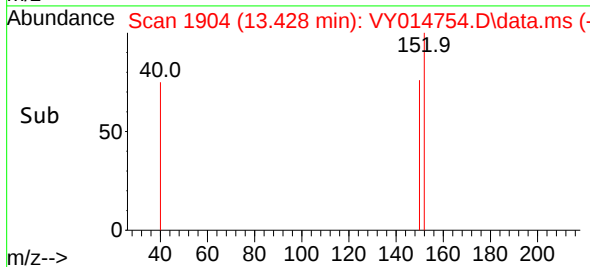
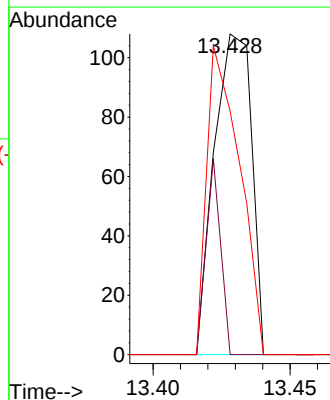
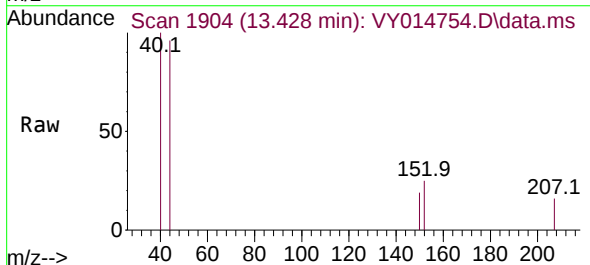
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

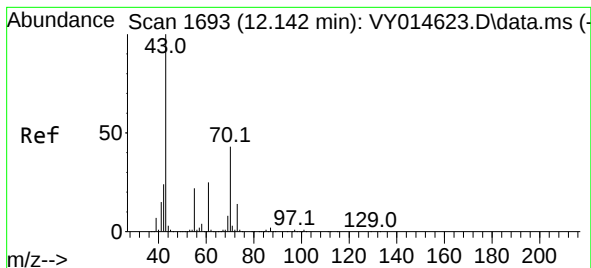
Tgt Ion: 91 Resp: 19  
Ion Ratio Lower Upper  
91 100  
106 0.0 24.6 36.8#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

Tgt Ion:152 Resp: 102  
Ion Ratio Lower Upper  
152 100  
115 23.5 28.8 86.5#  
150 85.3 0.0 348.8

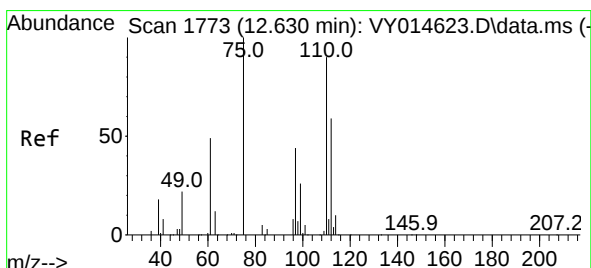
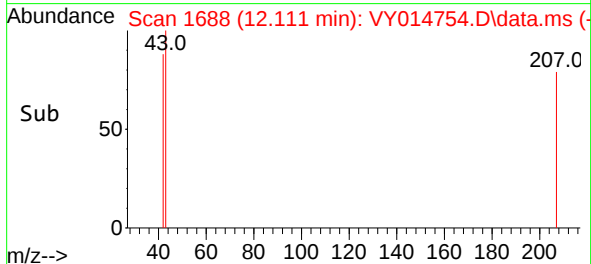
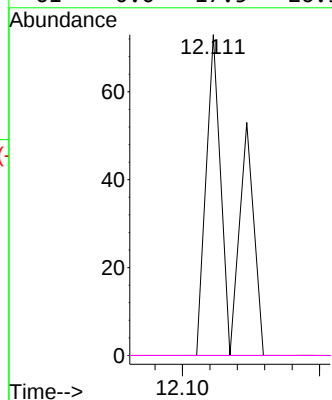
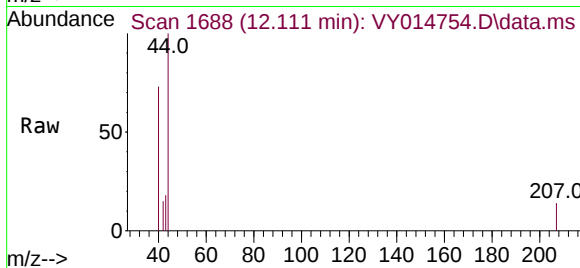




#74  
N-amy1 acetate  
Concen: 17.197 ug/l  
RT: 12.111 min Scan# 1750  
Delta R.T. -0.031 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

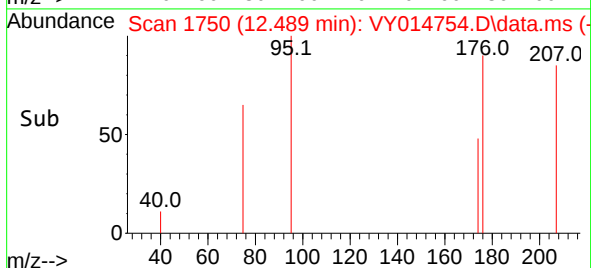
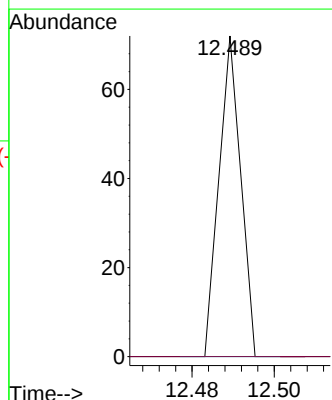
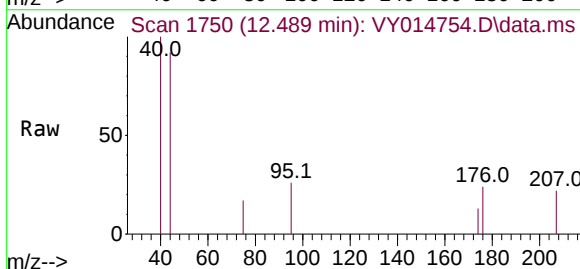
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-P10B

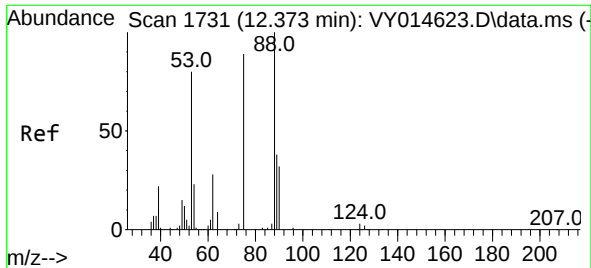
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 46    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 29.7  | 44.5# |
| 55       | 0.0   | 18.3  | 27.5# |
| 61       | 0.0   | 17.5  | 26.3# |



#76  
1,2,3-Trichloropropane  
Concen: 20.183 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.141 min  
Lab File: VY014754.D  
Acq: 21 Jul 2023 18:05

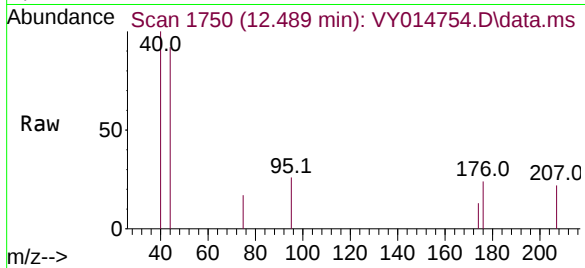
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 26    |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 0.0   |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 39.077 ug/l  
 RT: 12.489 min Scan# 11  
 Delta R.T. 0.116 min  
 Lab File: VY014754.D  
 Acq: 21 Jul 2023 18:05

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B-P10B



Tgt Ion: 75 Resp: 26  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 77.8 116.8#  
 89 0.0 37.4 56.0#

