

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020625\  
 Data File : VY021111.D  
 Acq On : 06 Feb 2025 15:11  
 Operator : SY/MD  
 Sample : Q1289-04  
 Misc : 5.03g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 07 02:32:47 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 18506    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 26209    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 16844    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152  | 3815     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.067  | 65    | 7235     | 38.157   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 76.320% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 7713     | 45.920   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 91.840% |
| 50) Toluene-d8              | 10.109 | 98    | 27274    | 42.652   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 85.300% |
| 62) 4-Bromofluorobenzene    | 12.414 | 95    | 5557     | 26.600   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 53.200% |

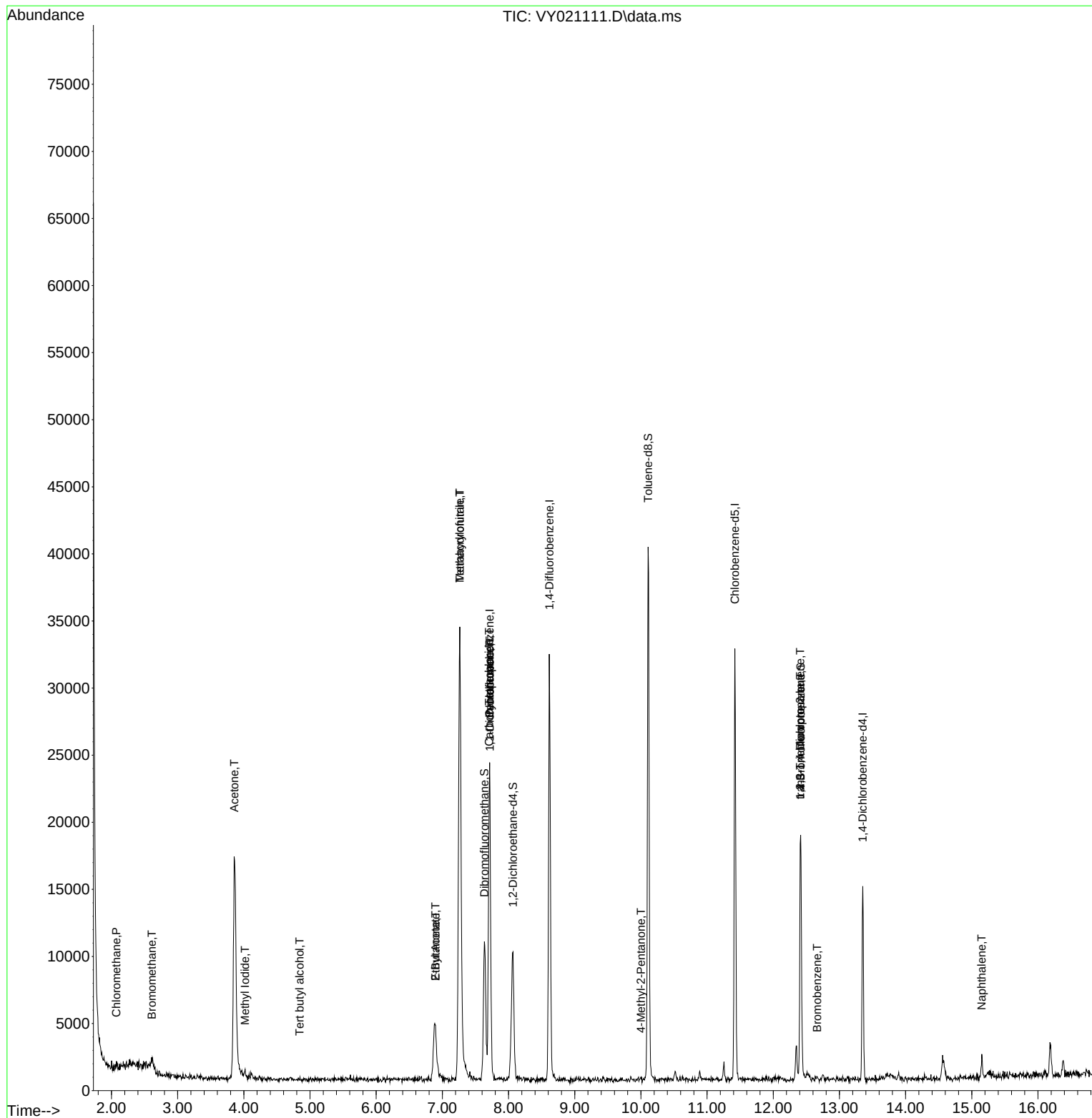
|                               |        |     |       |          |        |     |
|-------------------------------|--------|-----|-------|----------|--------|-----|
| Target Compounds              |        |     |       |          | Qvalue |     |
| 3) Chloromethane              | 2.074  | 50  | 206   | 1.266    | ug/l # | 41  |
| 5) Bromomethane               | 2.611  | 94  | 202   | 1.995    | ug/l   | 86  |
| 10) Methyl Iodide             | 4.019  | 142 | 364   | 1.749    | ug/l # | 91  |
| 11) Tert butyl alcohol        | 4.842  | 59  | 25    | 1.946    | ug/l # | 75  |
| 16) Acetone                   | 3.854  | 43  | 30951 | 1046.736 | ug/l   | 93  |
| 25) 2-Butanone                | 6.896  | 43  | 1494  | 30.747   | ug/l   | 99  |
| 29) Tetrahydrofuran           | 7.262  | 42  | 28283 | 860.212  | ug/l   | 96  |
| 31) Cyclohexane               | 7.713  | 56  | 335   | 1.036    | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 7.719  | 75  | 1665  | 6.692    | ug/l # | 47  |
| 37) Ethyl Acetate             | 6.896  | 43  | 1494  | 13.689   | ug/l # | 84  |
| 38) Carbon Tetrachloride      | 7.707  | 117 | 1758  | 6.048    | ug/l # | 12  |
| 41) Methacrylonitrile         | 7.262  | 41  | 16570 | 262.428  | ug/l # | 46  |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43  | 119   | 1.091    | ug/l # | 35  |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75  | 3089  | 89.260   | ug/l # | 100 |
| 77) Bromobenzene              | 12.664 | 156 | 293   | 4.261    | ug/l # | 1   |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75  | 3089  | 182.133  | ug/l # | 12  |
| 95) Naphthalene               | 15.151 | 128 | 1492  | 14.537   | ug/l # | 92  |

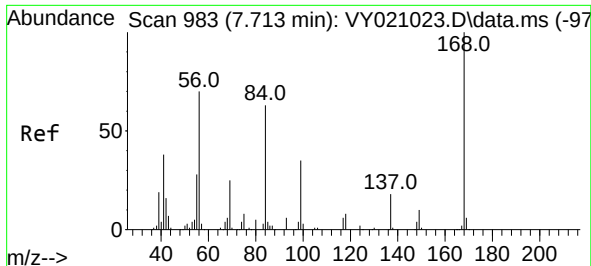
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020625\  
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Sample : Q1289-04  
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MSVOA\_Y  
ClientSampleId :

Quant Time: Feb 07 02:32:47 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 03 13:08:38 2025  
Response via : Initial Calibration

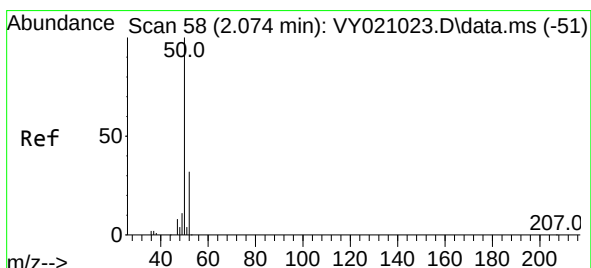
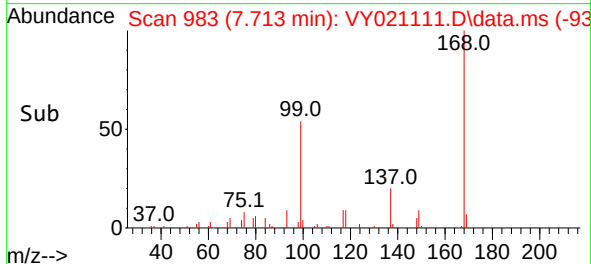
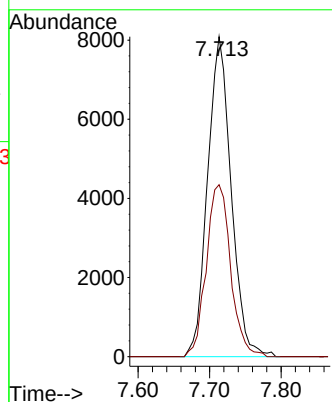
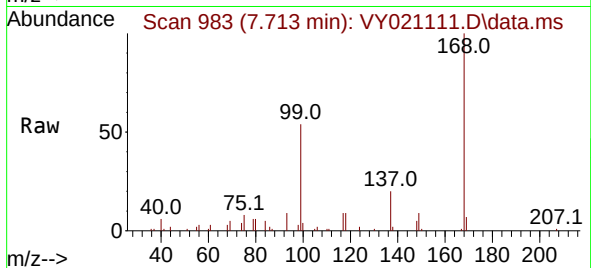




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

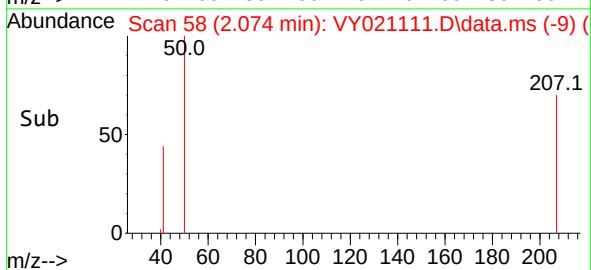
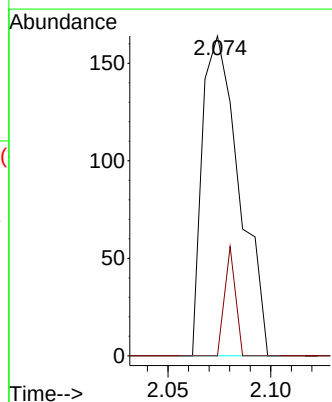
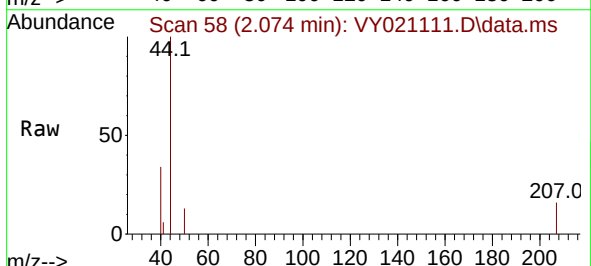
Instrument :  
MSVOA\_Y  
ClientSampleId :

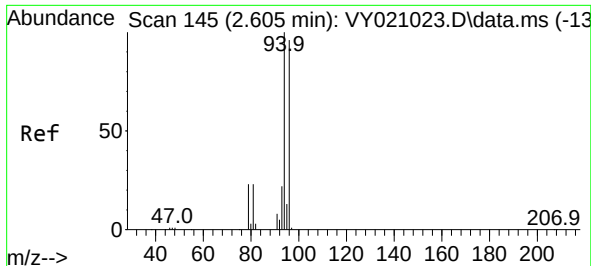
Tgt Ion:168 Resp: 18506  
Ion Ratio Lower Upper  
168 100  
99 53.8 44.2 66.4



#3  
Chloromethane  
Concen: 1.266 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Tgt Ion: 50 Resp: 206  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.7 40.1#

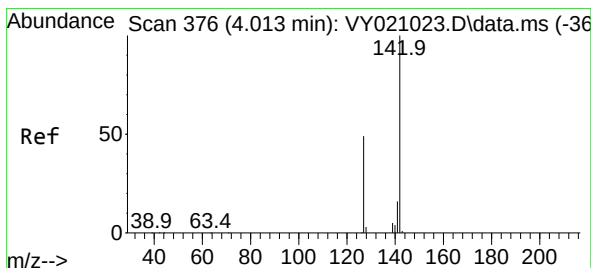
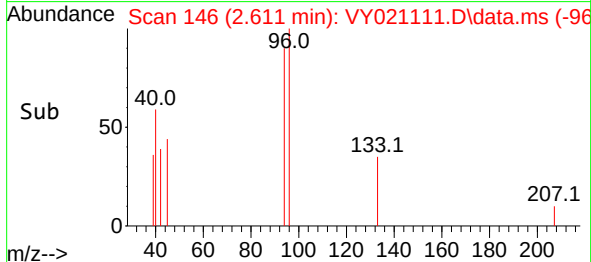
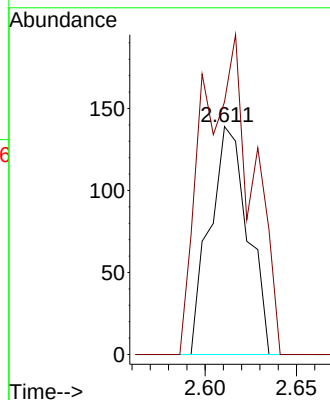
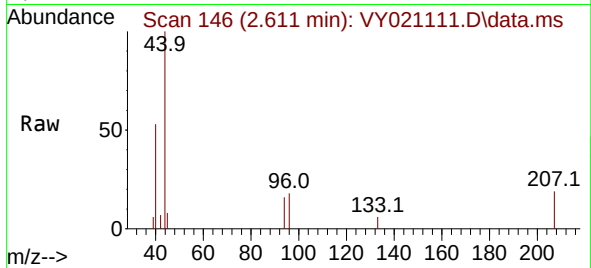




#5  
Bromomethane  
Concen: 1.995 ug/l  
RT: 2.611 min Scan# 145  
Delta R.T. 0.006 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

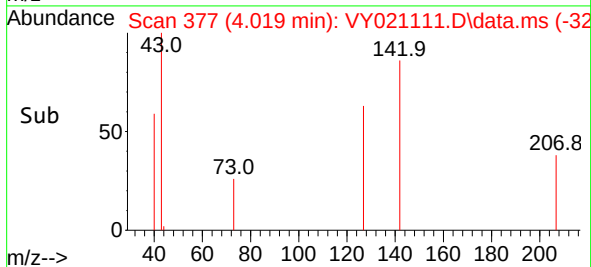
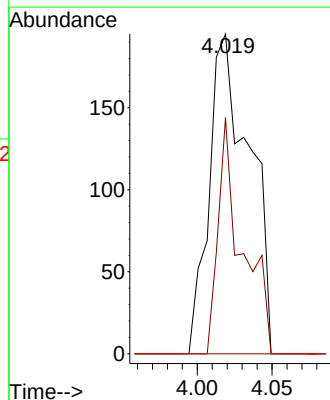
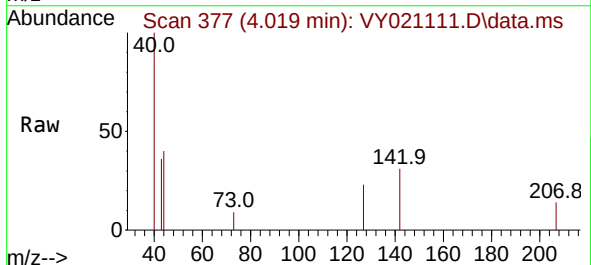
Instrument :  
MSVOA\_Y  
ClientSampleId :

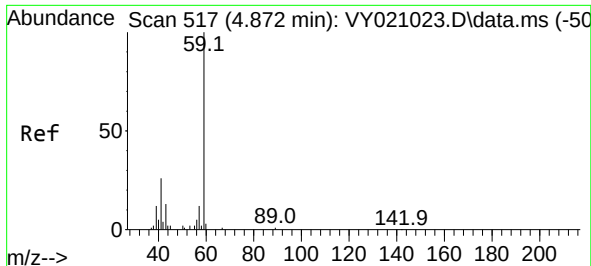
Tgt Ion: 94 Resp: 202  
Ion Ratio Lower Upper  
94 100  
96 110.8 77.3 115.9



#10  
Methyl Iodide  
Concen: 1.749 ug/l  
RT: 4.019 min Scan# 377  
Delta R.T. 0.006 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Tgt Ion:142 Resp: 364  
Ion Ratio Lower Upper  
142 100  
127 44.0 35.1 52.7  
141 0.0 11.8 17.6#





#11

Tert butyl alcohol

Concen: 1.946 ug/l

RT: 4.842 min Scan# 51

Delta R.T. -0.031 min

Lab File: VY021111.D

Acq: 06 Feb 2025 15:11

Instrument :

MSVOA\_Y

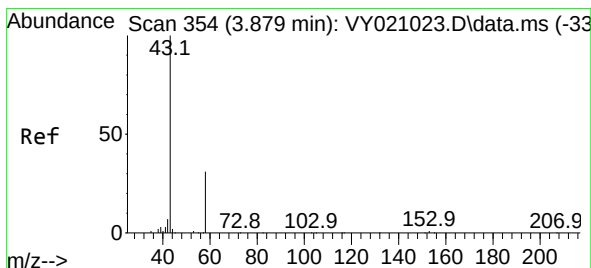
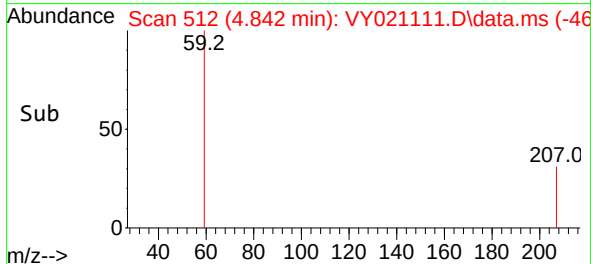
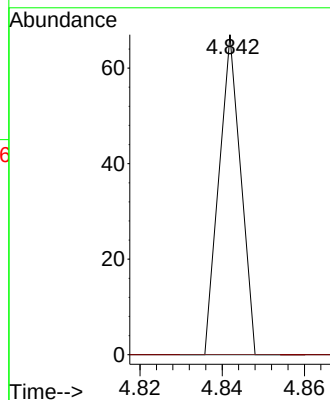
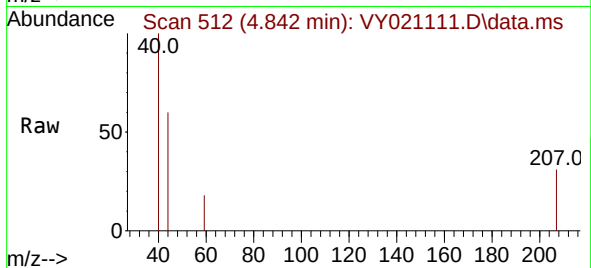
ClientSampleId :

Tgt Ion: 59 Resp: 25

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



#16

Acetone

Concen: 1046.736 ug/l

RT: 3.854 min Scan# 350

Delta R.T. -0.025 min

Lab File: VY021111.D

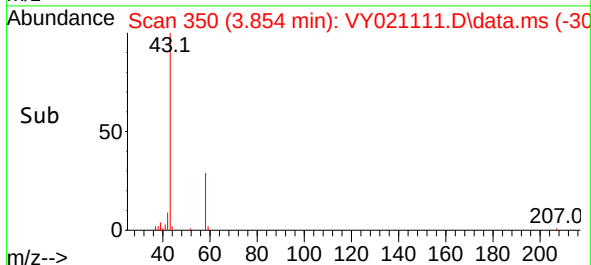
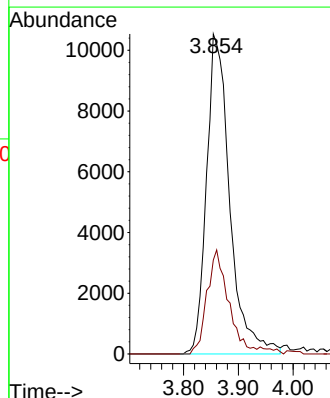
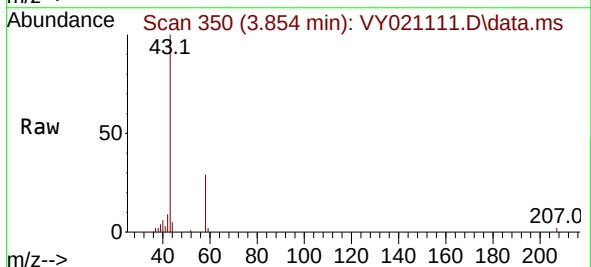
Acq: 06 Feb 2025 15:11

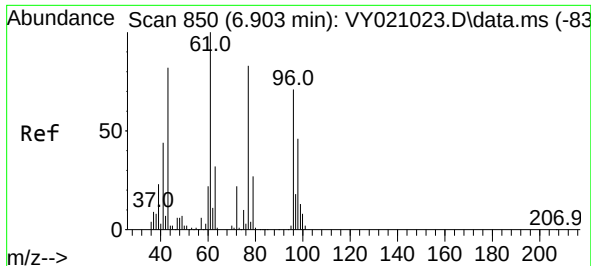
Tgt Ion: 43 Resp: 30951

Ion Ratio Lower Upper

43 100

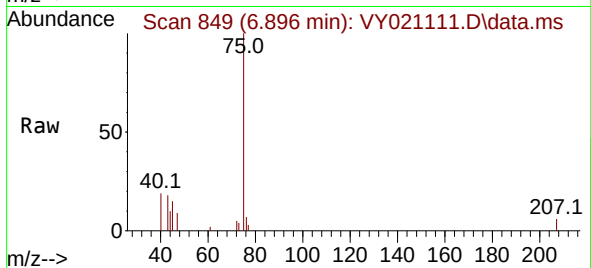
58 29.3 26.6 39.8



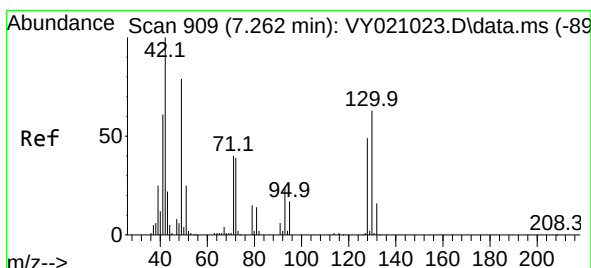
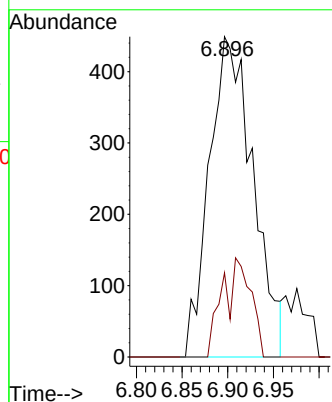
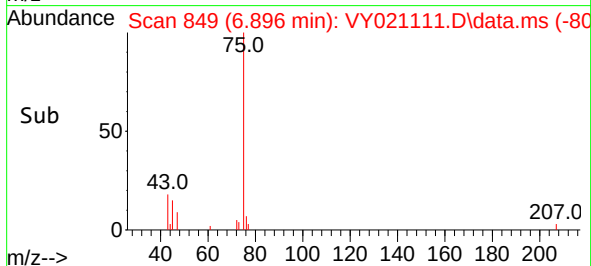


#25  
2-Butanone  
Concen: 30.747 ug/l  
RT: 6.896 min Scan# 84  
Delta R.T. -0.006 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

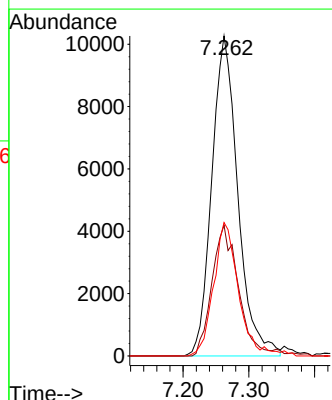
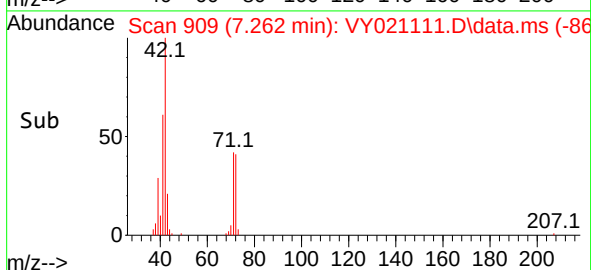
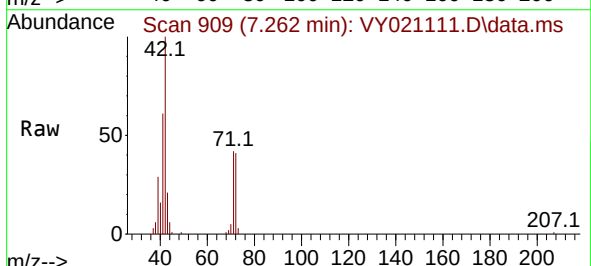


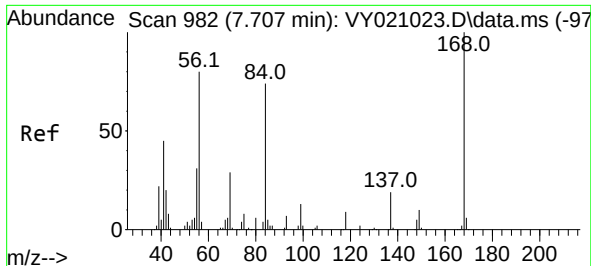
Tgt Ion: 43 Resp: 1494  
Ion Ratio Lower Upper  
43 100  
72 26.3 21.4 32.2



#29  
Tetrahydrofuran  
Concen: 860.212 ug/l  
RT: 7.262 min Scan# 909  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

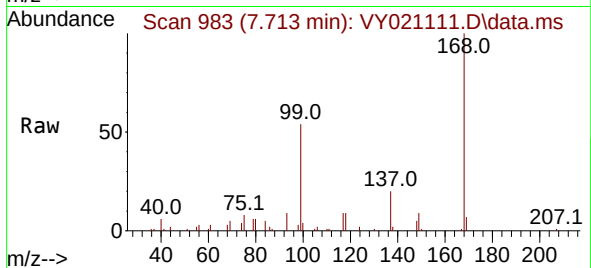
Tgt Ion: 42 Resp: 28283  
Ion Ratio Lower Upper  
42 100  
72 42.0 36.6 54.8  
71 40.2 33.8 50.6



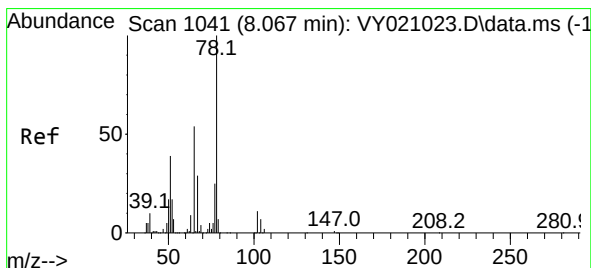
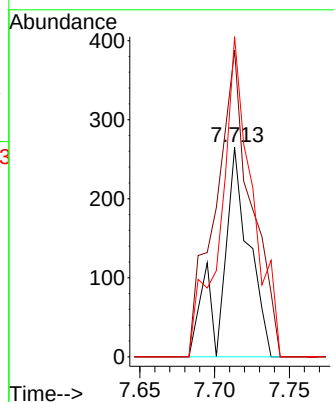
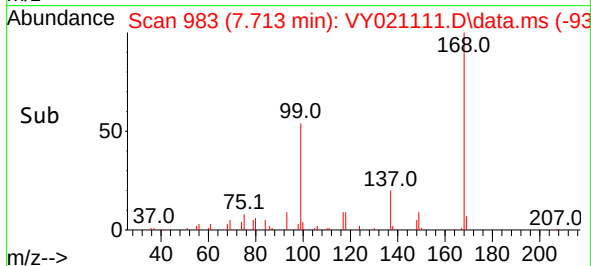


#31  
Cyclohexane  
Concen: 1.036 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

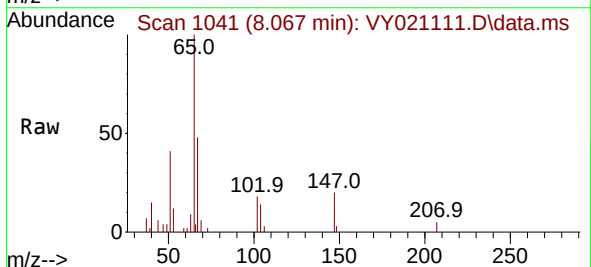
Instrument :  
MSVOA\_Y  
ClientSampleId :



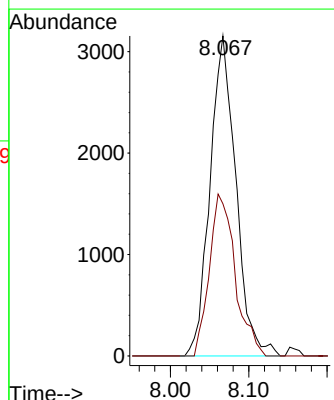
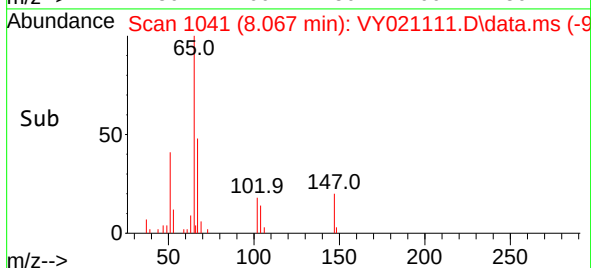
Tgt Ion: 56 Resp: 335  
Ion Ratio Lower Upper  
56 100  
69 146.4 27.0 40.6#  
84 152.8 71.8 107.6#

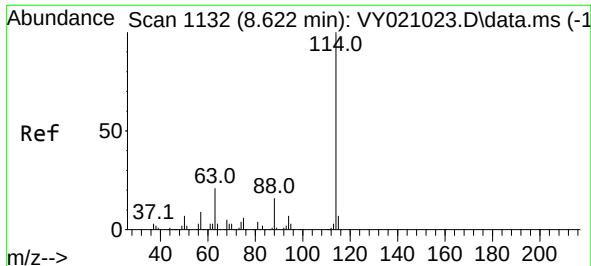


#33  
1,2-Dichloroethane-d4  
Concen: 38.157 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11



Tgt Ion: 65 Resp: 7235  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021111.D

Acq: 06 Feb 2025 15:11

Instrument :

MSVOA\_Y

ClientSampleId :

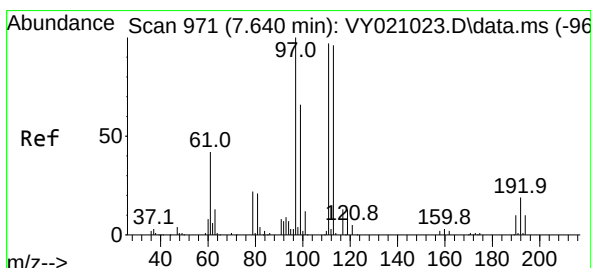
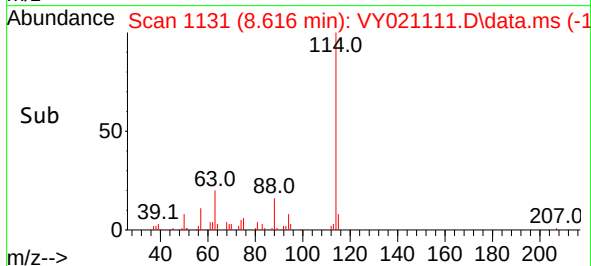
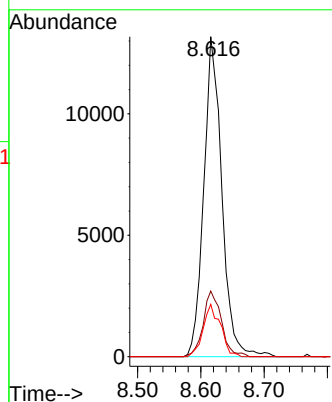
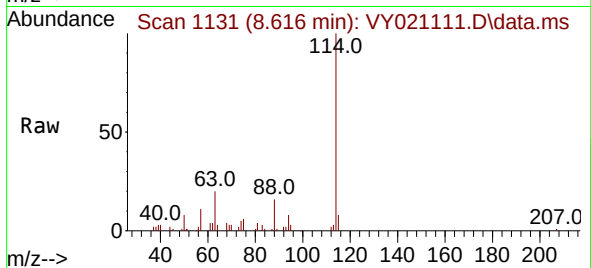
Tgt Ion:114 Resp: 26209

Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.4

88 16.4 0.0 29.0



#35

Dibromofluoromethane

Concen: 45.920 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021111.D

Acq: 06 Feb 2025 15:11

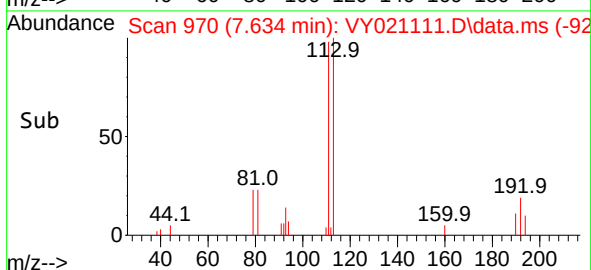
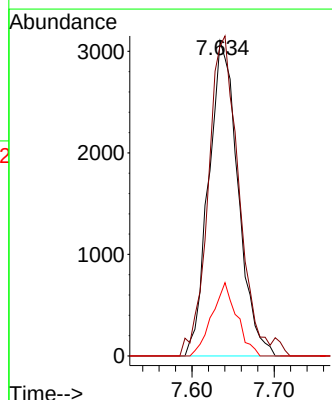
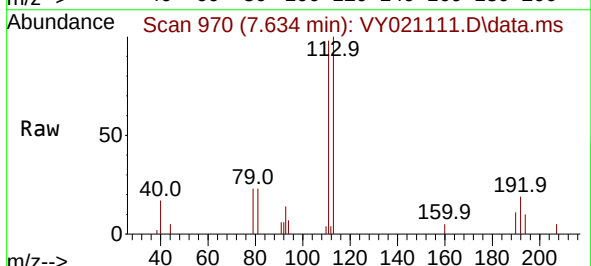
Tgt Ion:113 Resp: 7713

Ion Ratio Lower Upper

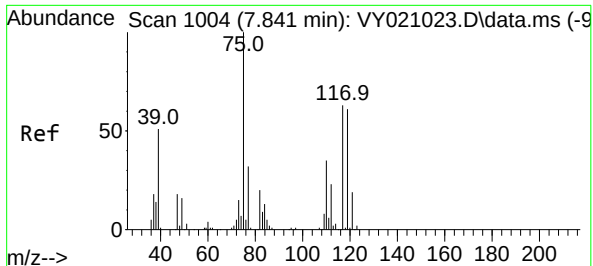
113 100

111 106.6 83.8 125.6

192 19.8 14.5 21.7



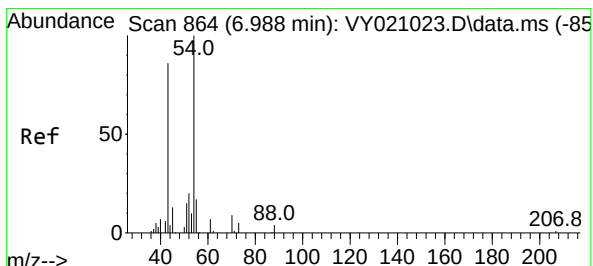
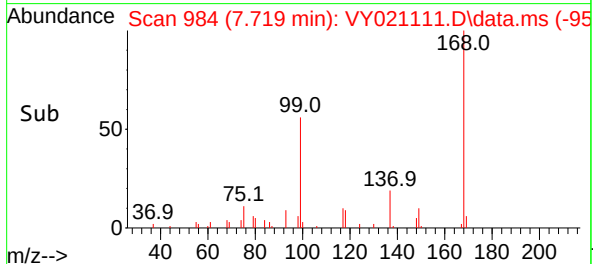
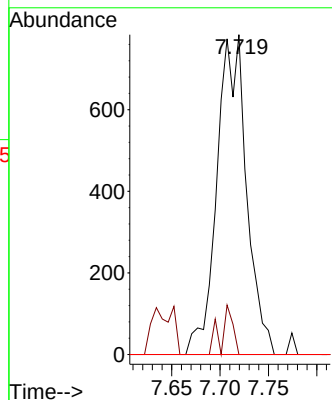
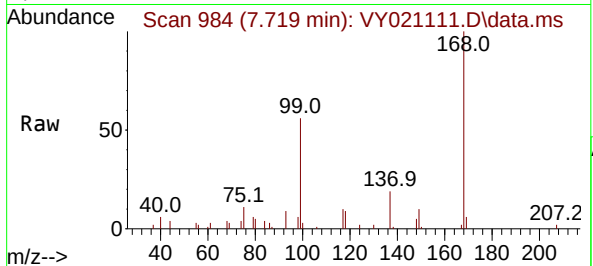




#36  
1,1-Dichloropropene  
Concen: 6.692 ug/l  
RT: 7.719 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

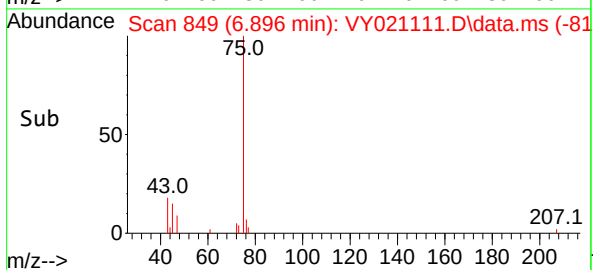
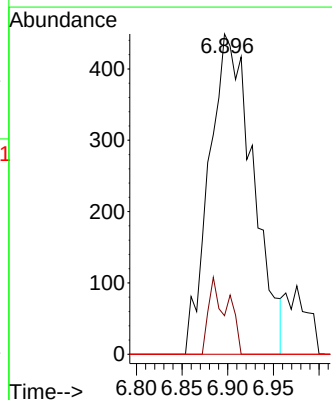
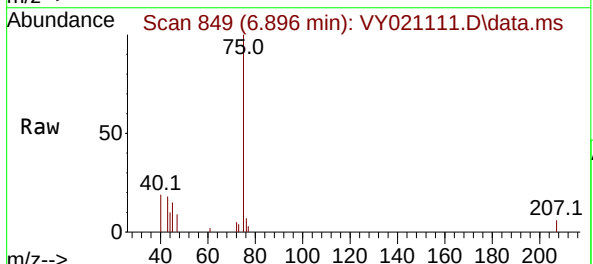
Instrument :  
MSVOA\_Y  
ClientSampleId :

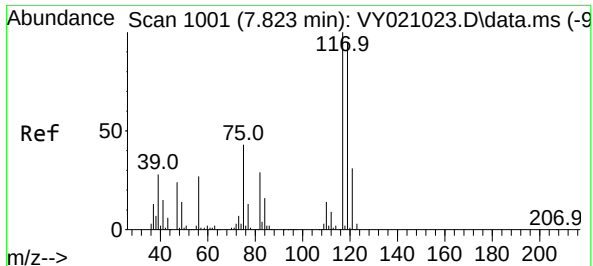
Tgt Ion: 75 Resp: 1665  
Ion Ratio Lower Upper  
75 100  
110 6.2 17.4 52.3#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 13.689 ug/l  
RT: 6.896 min Scan# 849  
Delta R.T. -0.092 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

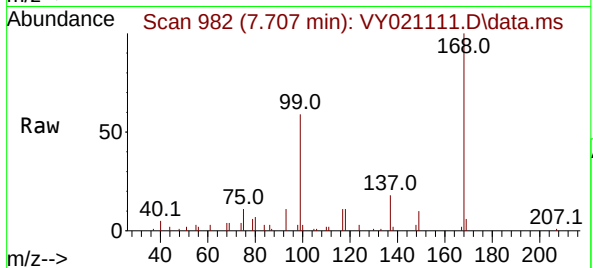
Tgt Ion: 43 Resp: 1494  
Ion Ratio Lower Upper  
43 100  
61 10.4 11.0 16.6#  
70 0.0 8.1 12.1#



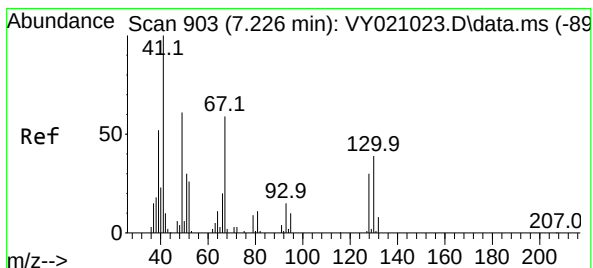
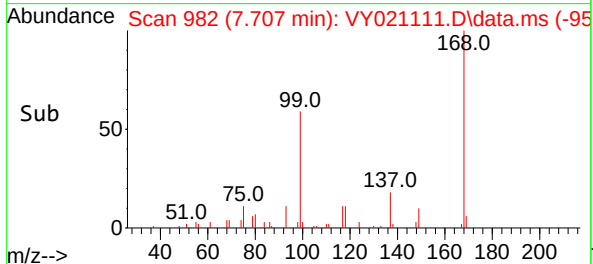
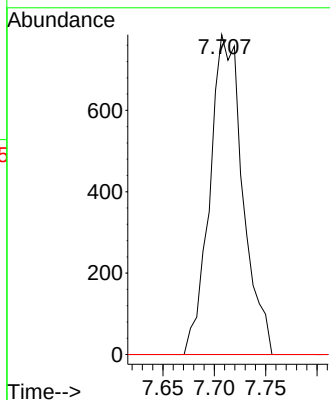


#38  
Carbon Tetrachloride  
Concen: 6.048 ug/l  
RT: 7.707 min Scan# 911  
Delta R.T. -0.116 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

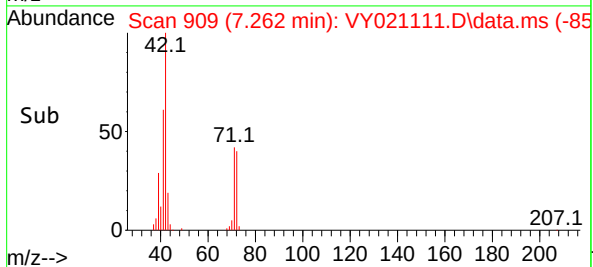
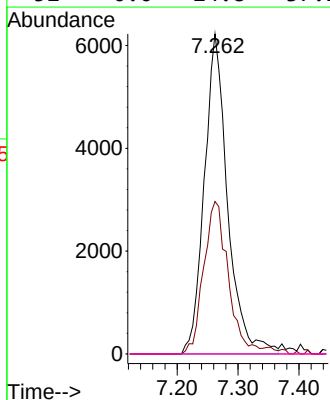
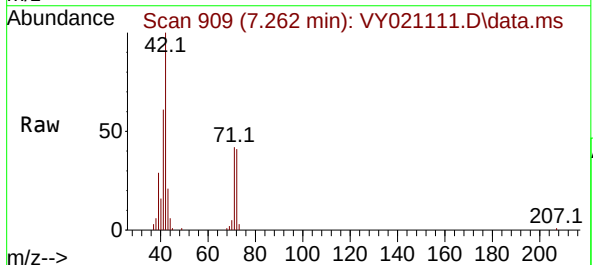


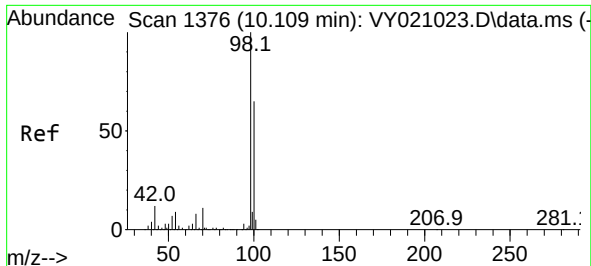
Tgt Ion: 117 Resp: 1758  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.0 114.0#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 262.428 ug/l  
RT: 7.262 min Scan# 909  
Delta R.T. 0.036 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Tgt Ion: 41 Resp: 16570  
Ion Ratio Lower Upper  
41 100  
39 50.2 41.9 62.9  
67 0.0 59.8 89.6#  
52 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 42.652 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021111.D

Acq: 06 Feb 2025 15:11

Instrument :

MSVOA\_Y

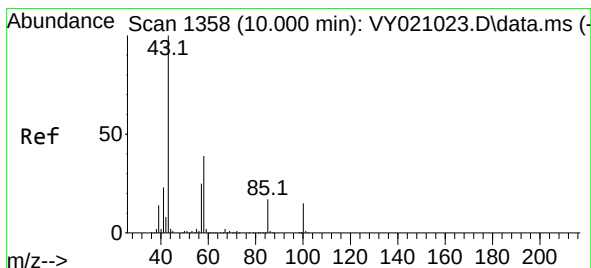
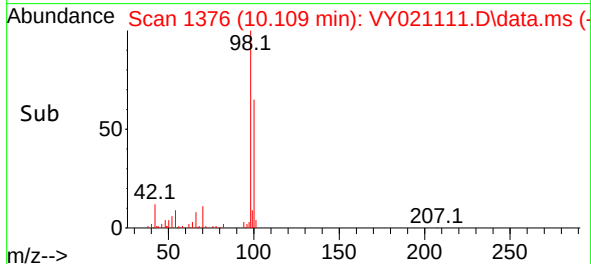
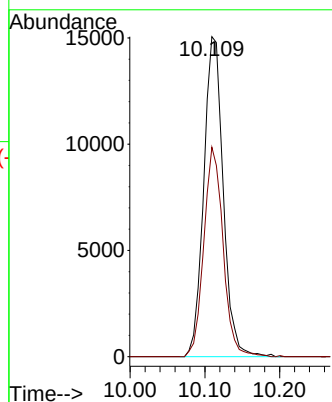
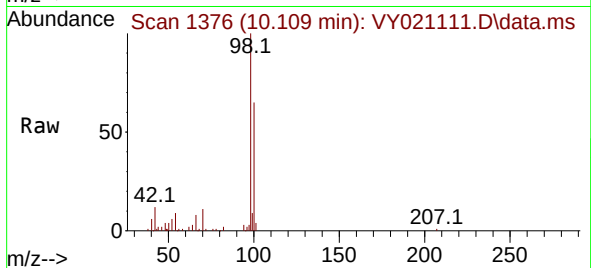
ClientSampleId :

Tgt Ion: 98 Resp: 27274

Ion Ratio Lower Upper

98 100

100 64.6 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 1.091 ug/l

RT: 9.999 min Scan# 1358

Delta R.T. -0.000 min

Lab File: VY021111.D

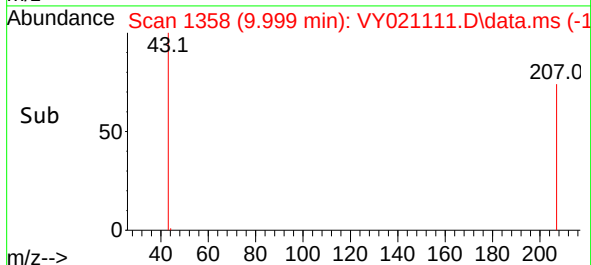
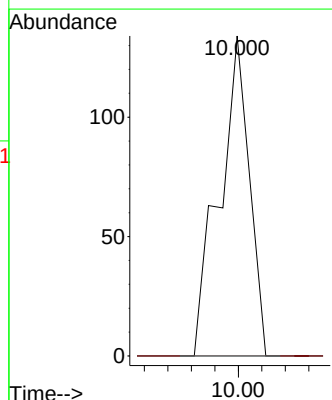
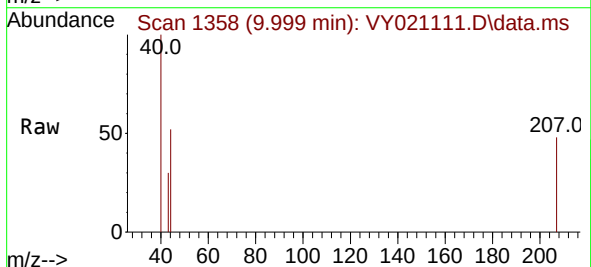
Acq: 06 Feb 2025 15:11

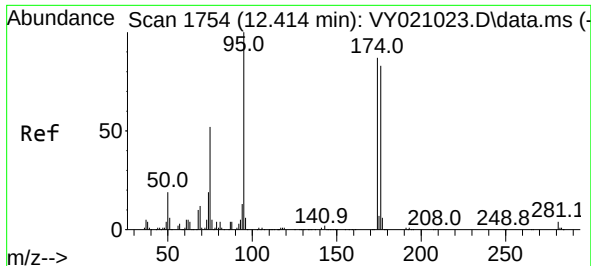
Tgt Ion: 43 Resp: 119

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.2#

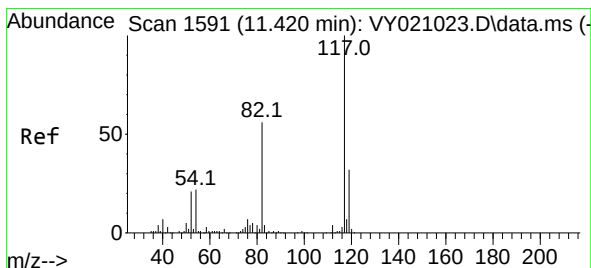
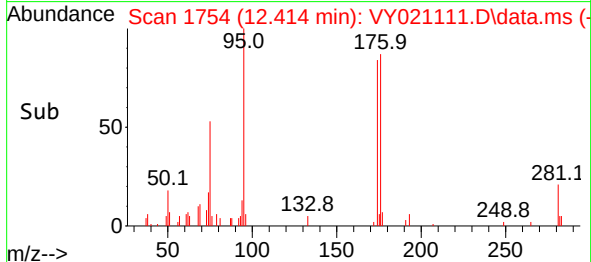
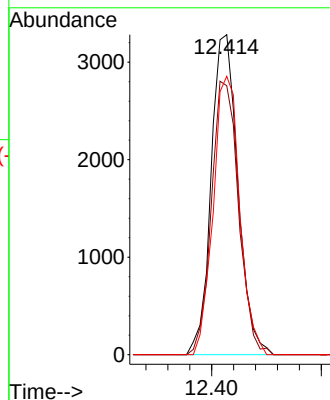
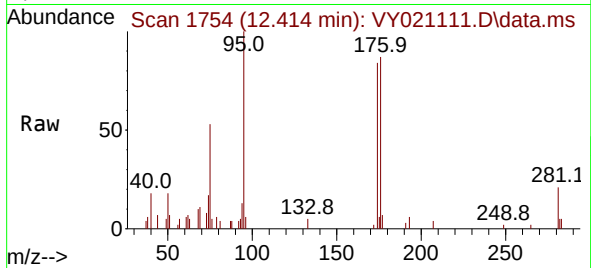




#62  
4-Bromofluorobenzene  
Concen: 26.600 ug/l  
RT: 12.414 min Scan# 1754  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

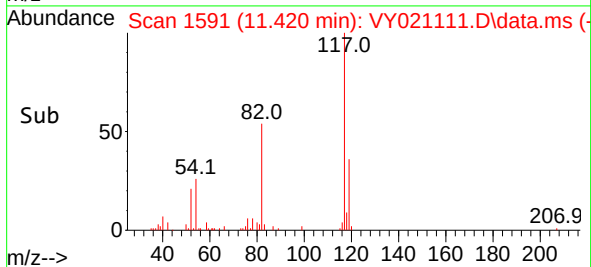
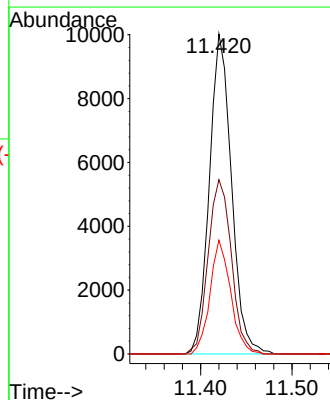
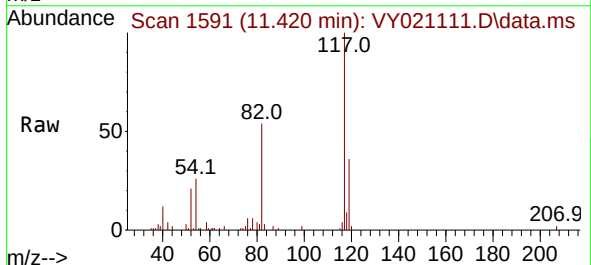
Instrument :  
MSVOA\_Y  
ClientSampleId :

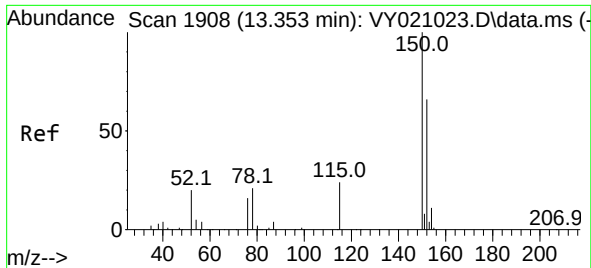
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 5557  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 86.4  | 0.0   | 160.0 |
| 176      | 86.2  | 0.0   | 151.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

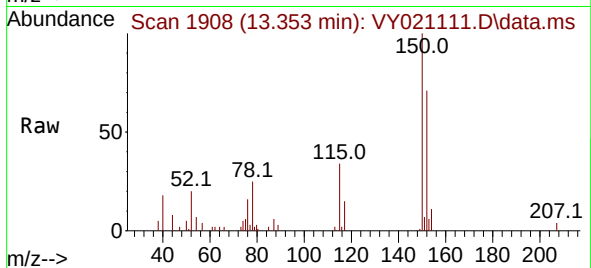
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 16844 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 54.4  | 43.8  | 65.8  |
| 119      | 35.6  | 26.5  | 39.7  |



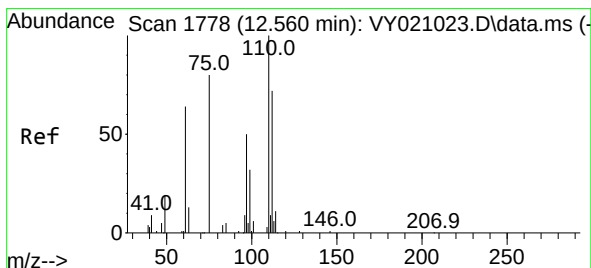
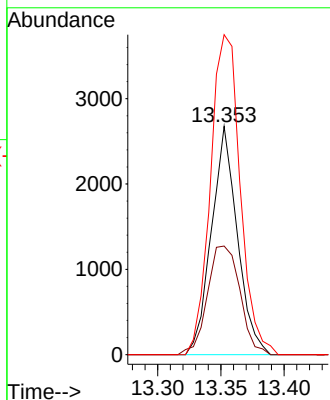
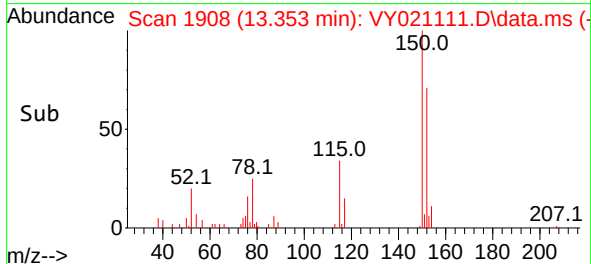


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.353 min Scan# 1908  
 Delta R.T. -0.000 min  
 Lab File: VY021111.D  
 Acq: 06 Feb 2025 15:11

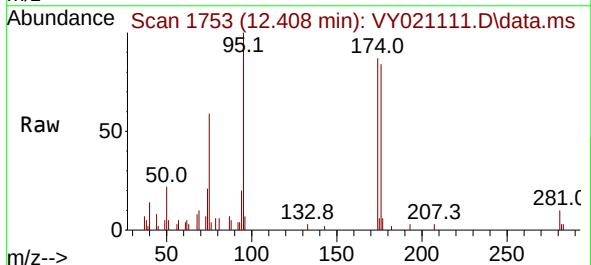
Instrument :  
 MSVOA\_Y  
 ClientSampleId :



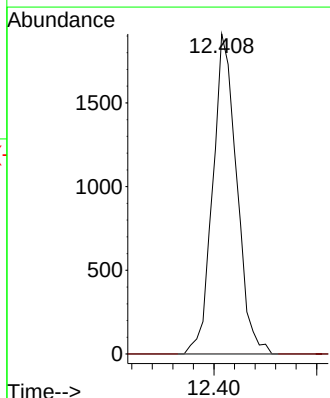
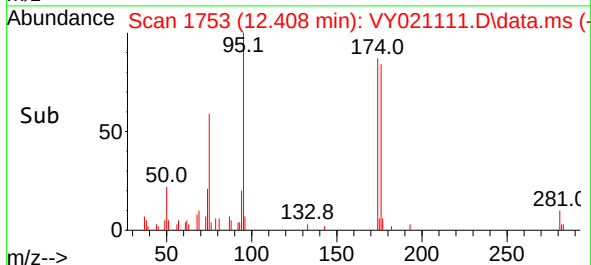
Tgt Ion:152 Resp: 3815  
 Ion Ratio Lower Upper  
 152 100  
 115 59.5 30.0 90.0  
 150 160.7 0.0 344.6

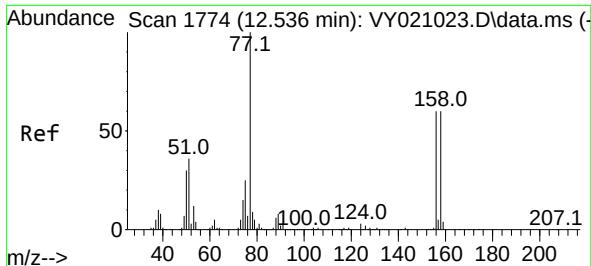


#76  
 1,2,3-Trichloropropane  
 Concen: 89.260 ug/l  
 RT: 12.408 min Scan# 1753  
 Delta R.T. -0.153 min  
 Lab File: VY021111.D  
 Acq: 06 Feb 2025 15:11



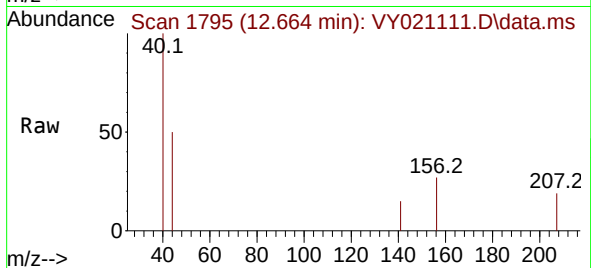
Tgt Ion: 75 Resp: 3089  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0



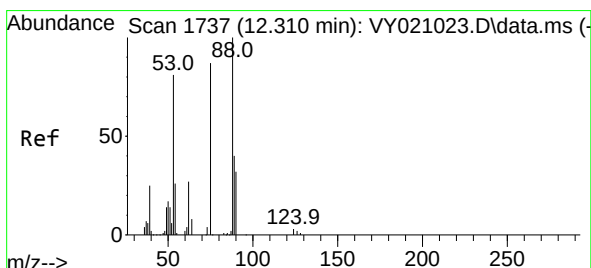
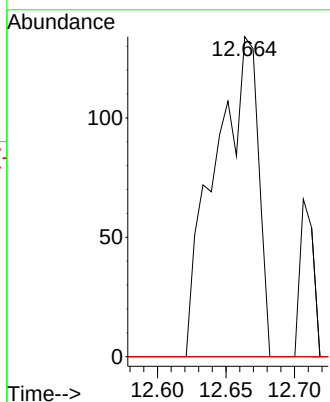
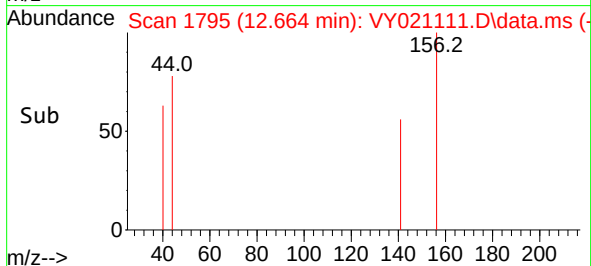


#77  
Bromobenzene  
Concen: 4.261 ug/l  
RT: 12.664 min Scan# 1753  
Delta R.T. 0.128 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

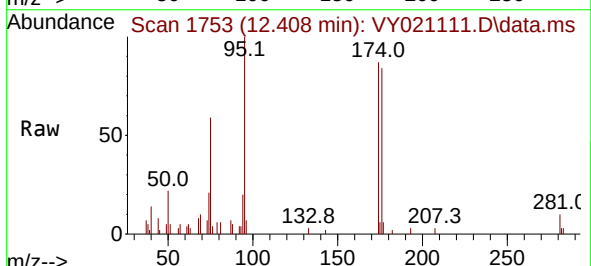
Instrument :  
MSVOA\_Y  
ClientSampleId :



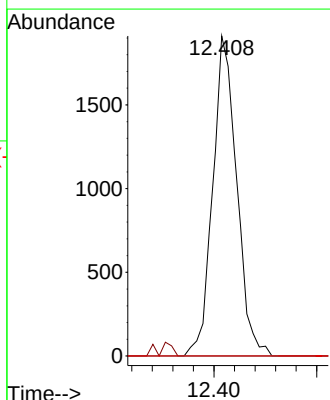
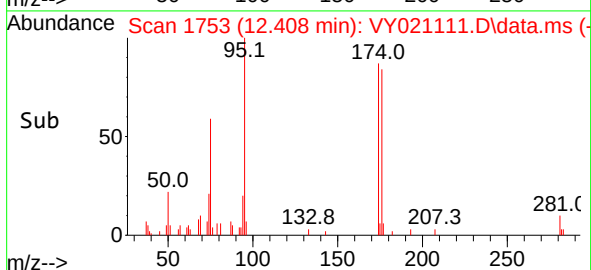
Tgt Ion:156 Resp: 293  
Ion Ratio Lower Upper  
156 100  
77 0.0 97.3 291.8#  
158 0.0 48.4 145.0#

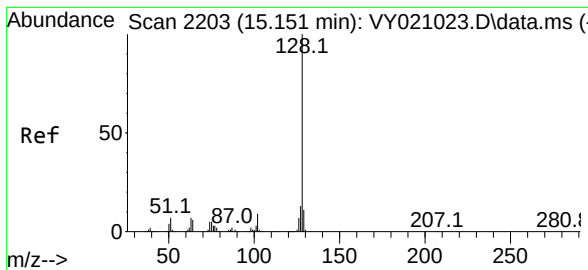


#81  
trans-1,4-Dichloro-2-butene  
Concen: 182.133 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.097 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11



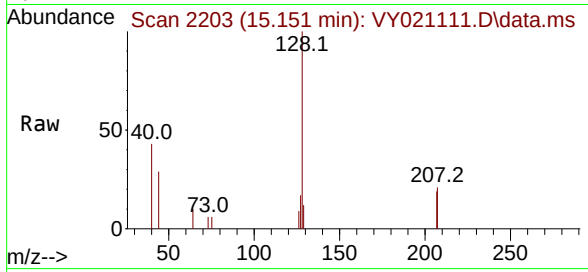
Tgt Ion: 75 Resp: 3089  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.0 111.0#  
89 0.0 36.5 54.7#





#95  
Naphthalene  
Concen: 14.537 ug/l  
RT: 15.151 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY021111.D  
Acq: 06 Feb 2025 15:11

Instrument :  
MSVOA\_Y  
ClientSampleId :



Tgt Ion:128 Resp: 1492  
Ion Ratio Lower Upper  
128 100  
127 16.9 10.2 15.4#  
129 8.7 8.6 12.8

