

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY071222\  
 Data File : VY009543.D  
 Acq On : 12 Jul 2022 19:21  
 Operator : KP/MD  
 Sample : N3662-04  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20220497B-SIM/C3B-COMPOSITE

Quant Time: Jul 13 01:17:00 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y070722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 08 11:00:56 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.783  | 168  | 133895   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 211757   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 175315   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 75125    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 53496    | 57.719   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 115.440% |
| 35) Dibromofluoromethane    | 7.710  | 113   | 57508    | 51.614   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 103.220% |
| 50) Toluene-d8              | 10.173 | 98    | 145368   | 47.117   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 125 | Recovery | =    | 94.240%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 68610    | 43.623   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 146 | Recovery | =    | 87.240%  |

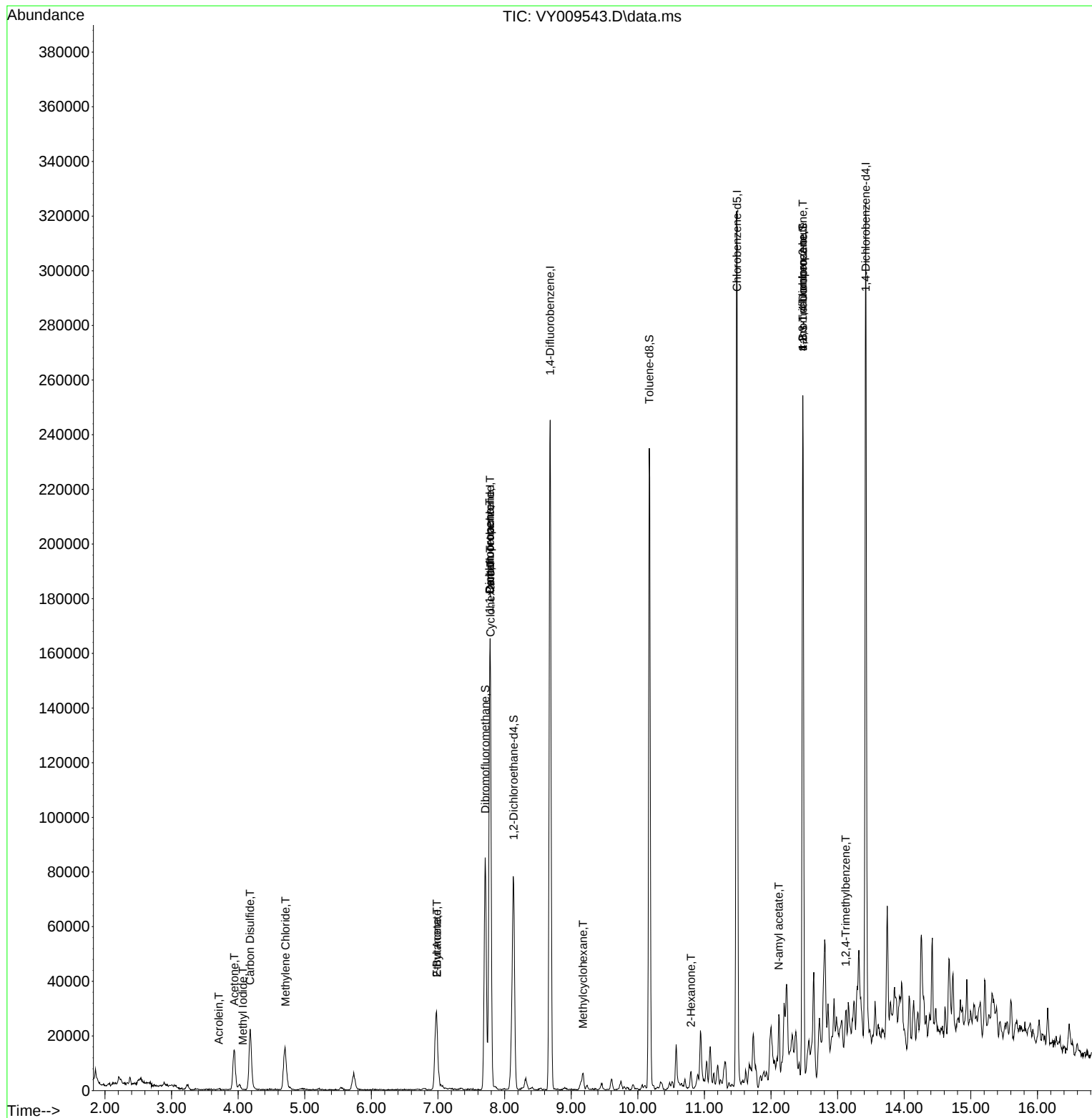
| Target Compounds              |        |     |       |           | Qvalue |     |
|-------------------------------|--------|-----|-------|-----------|--------|-----|
| 10) Methyl Iodide             | 4.070  | 142 | 108   | 4.224     | ug/l # | 35  |
| 11) Tert butyl alcohol        | 4.972  | 59  | 343   | Below Cal | #      | 77  |
| 13) Acrolein                  | 3.710  | 56  | 181   | 31.740    | ug/l # | 71  |
| 16) Acetone                   | 3.942  | 43  | 24946 | 76.587    | ug/l   | 96  |
| 17) Carbon Disulfide          | 4.180  | 76  | 40583 | 14.585    | ug/l   | 95  |
| 20) Methylene Chloride        | 4.710  | 84  | 10984 | 2.646     | ug/l # | 75  |
| 25) 2-Butanone                | 6.984  | 43  | 8559  | 16.244    | ug/l # | 90  |
| 31) Cyclohexane               | 7.789  | 56  | 3188  | 1.451     | ug/l # | 35  |
| 36) 1,1-Dichloropropene       | 7.777  | 75  | 9648  | 5.319     | ug/l # | 51  |
| 37) Ethyl Acetate             | 6.984  | 43  | 8559  | 7.527     | ug/l # | 83  |
| 38) Carbon Tetrachloride      | 7.783  | 117 | 12352 | 6.367     | ug/l # | 15  |
| 39) Methylcyclohexane         | 9.179  | 83  | 2389  | 1.097     | ug/l   | 96  |
| 59) 2-Hexanone                | 10.801 | 43  | 2637  | 3.411     | ug/l # | 31  |
| 74) N-amyl acetate            | 12.117 | 43  | 6148  | 4.206     | ug/l # | 78  |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75  | 36387 | 45.755    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75  | 36387 | 93.644    | ug/l # | 8   |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105 | 4762  | 1.114     | ug/l   | 97  |

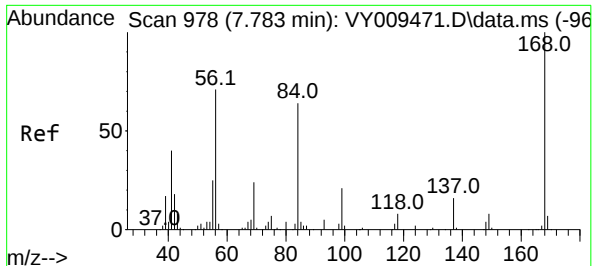
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jul 08 11:00:56 2022  
Response via : Initial Calibration

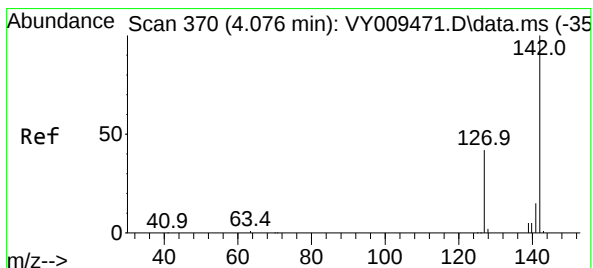
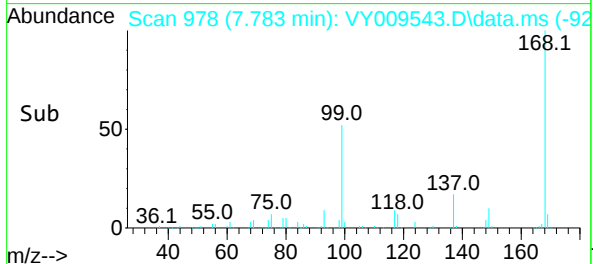
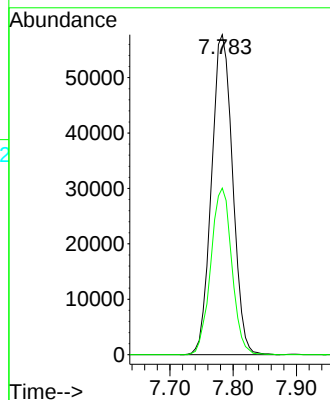
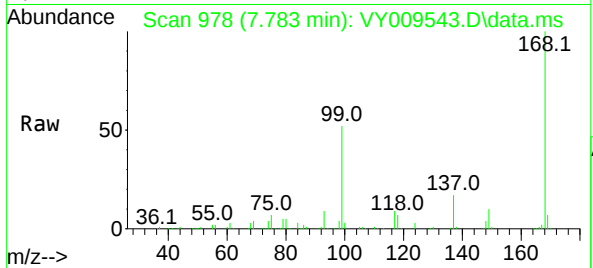




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

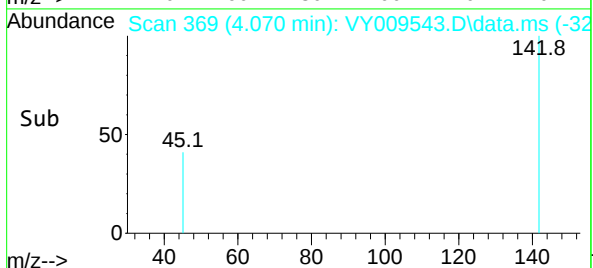
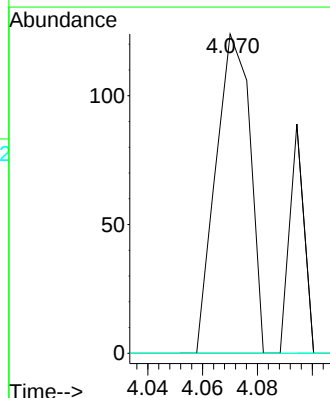
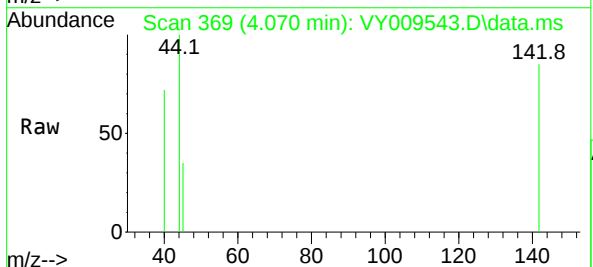
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220497B-SIM/C3B-COMPOSITE

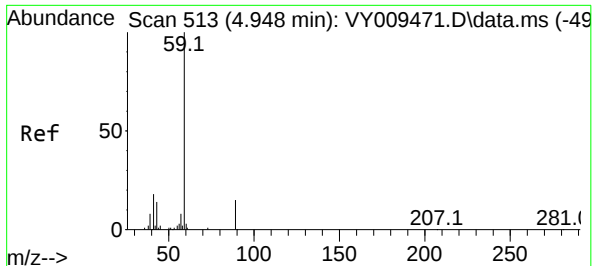
Tgt Ion:168 Resp: 133895  
Ion Ratio Lower Upper  
168 100  
99 52.0 46.9 70.3



#10  
Methyl Iodide  
Concen: 4.224 ug/l  
RT: 4.070 min Scan# 369  
Delta R.T. -0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion:142 Resp: 108  
Ion Ratio Lower Upper  
142 100  
127 0.0 41.5 62.3#  
141 0.0 11.9 17.9#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.972 min Scan# 51

Delta R.T. 0.024 min

Lab File: VY009543.D

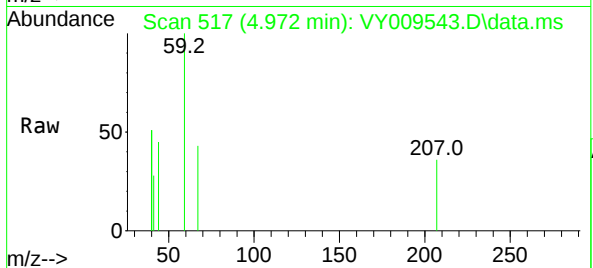
Acq: 12 Jul 2022 19:21

Instrument :

MSVOA\_Y

ClientSampleId :

20220497B-SIM/C3B-COMPOSITE

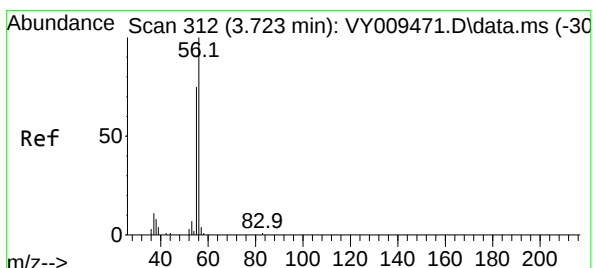
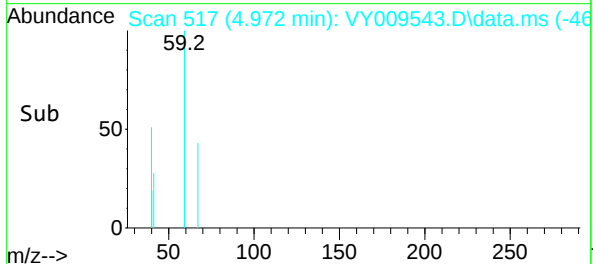
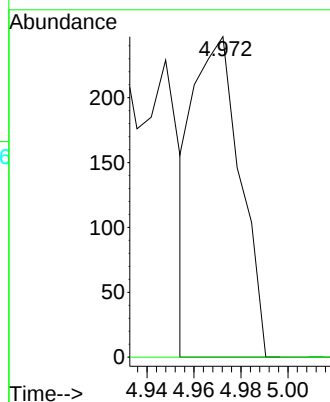


Tgt Ion: 59 Resp: 343

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#13

Acrolein

Concen: 31.740 ug/l

RT: 3.710 min Scan# 310

Delta R.T. -0.013 min

Lab File: VY009543.D

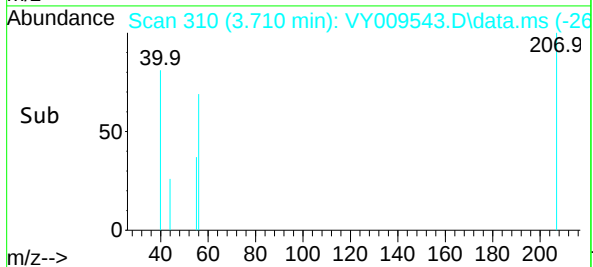
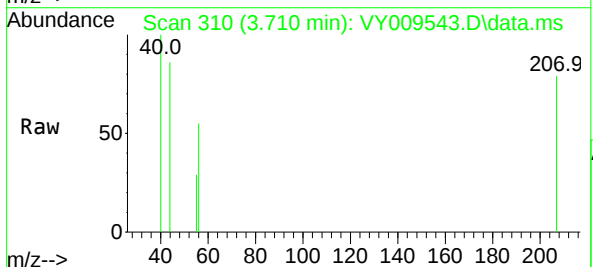
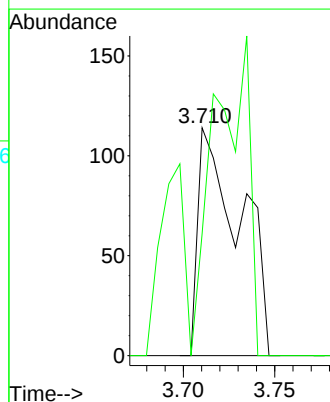
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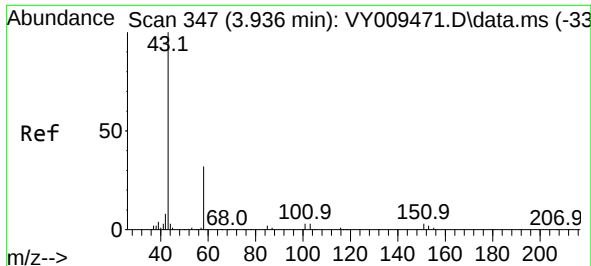
Tgt Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 47.5 57.6 86.4#

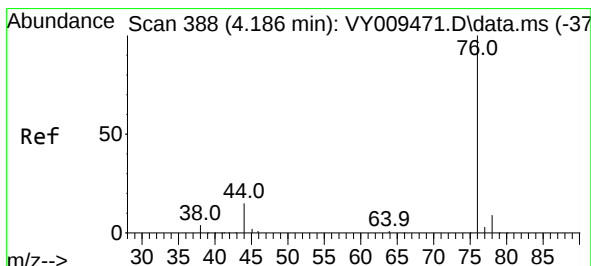
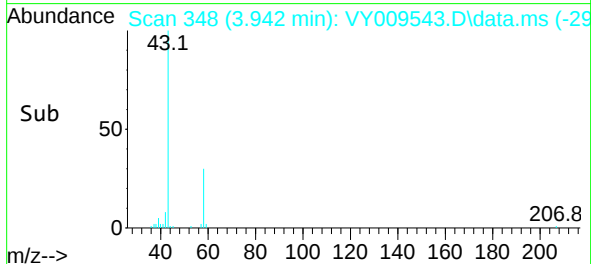
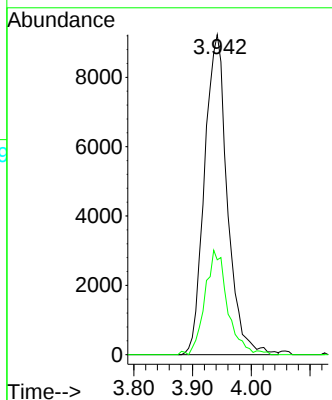
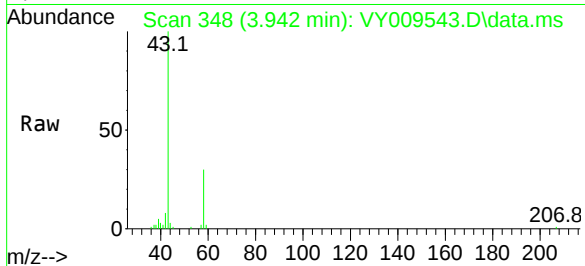




#16  
Acetone  
Concen: 76.587 ug/l  
RT: 3.942 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

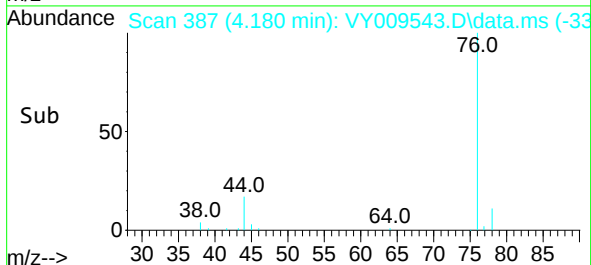
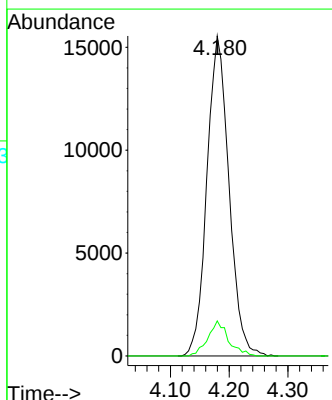
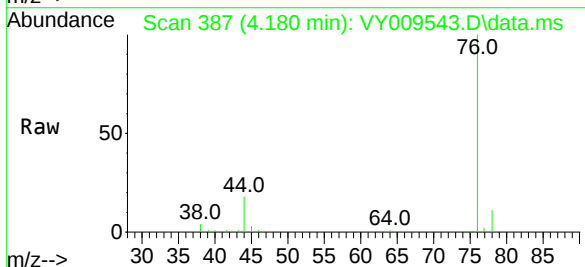
Instrument :  
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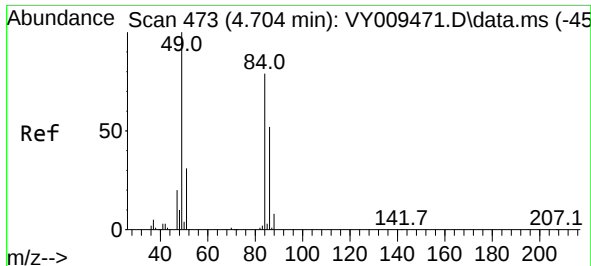
Tgt Ion: 43 Resp: 24946  
Ion Ratio Lower Upper  
43 100  
58 29.6 22.0 33.0



#17  
Carbon Disulfide  
Concen: 14.585 ug/l  
RT: 4.180 min Scan# 387  
Delta R.T. -0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 76 Resp: 40583  
Ion Ratio Lower Upper  
76 100  
78 10.9 7.4 11.0

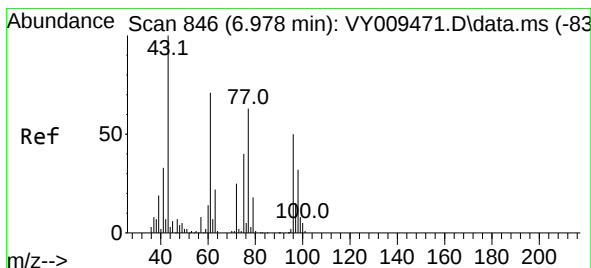
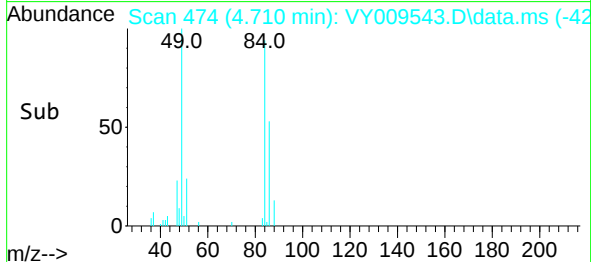
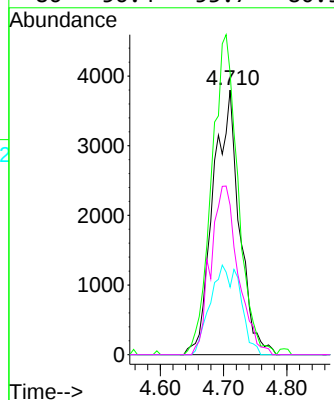
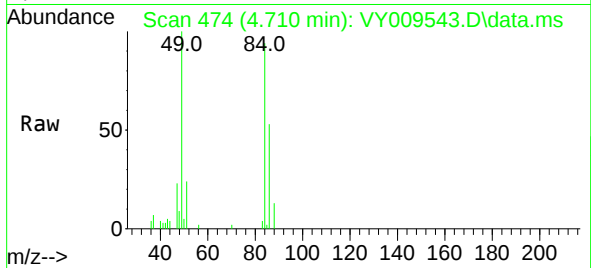




#20  
Methylene Chloride  
Concen: 2.646 ug/l  
RT: 4.710 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

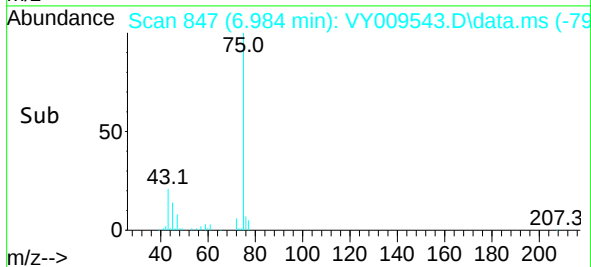
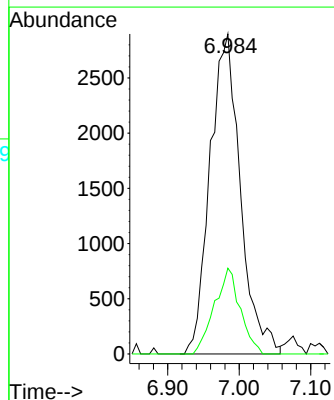
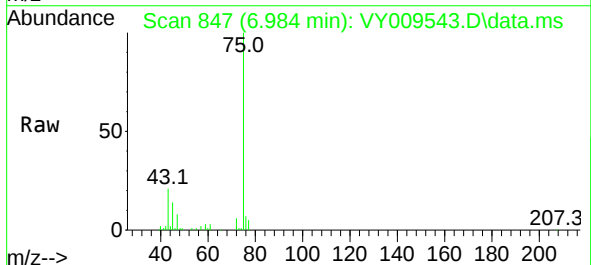
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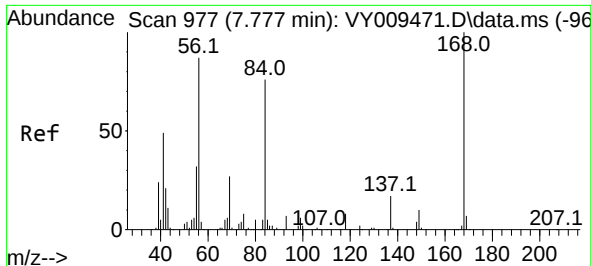
Tgt Ion: 84 Resp: 10984  
Ion Ratio Lower Upper  
84 100  
49 106.5 114.4 171.6#  
51 25.5 35.3 52.9#  
86 56.4 53.7 80.5



#25  
2-Butanone  
Concen: 16.244 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 43 Resp: 8559  
Ion Ratio Lower Upper  
43 100  
72 26.8 17.7 26.5#

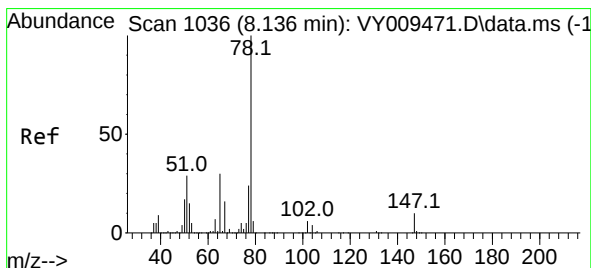
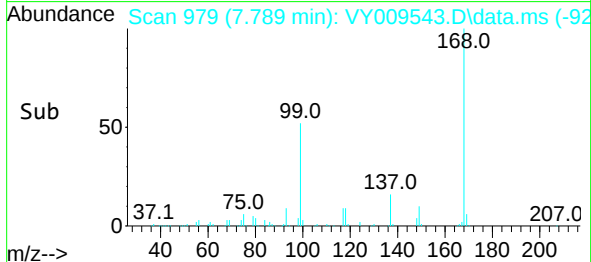
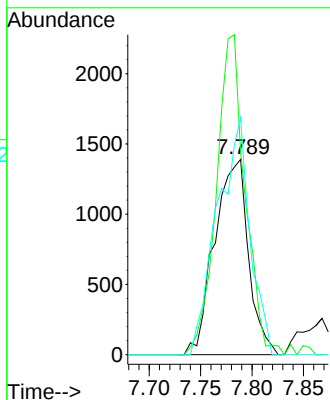
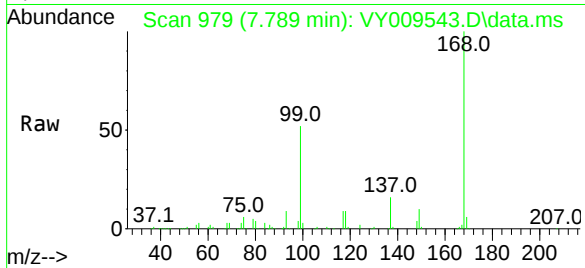




#31  
Cyclohexane  
Concen: 1.451 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

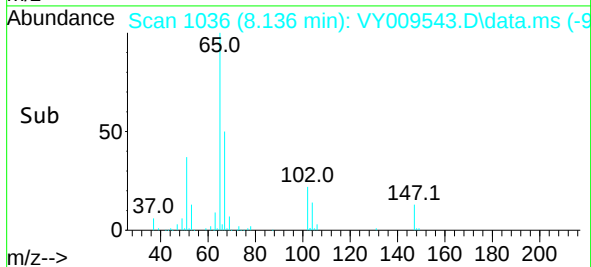
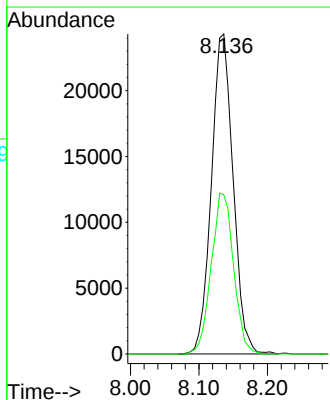
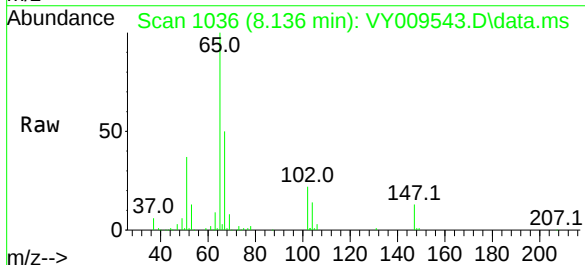
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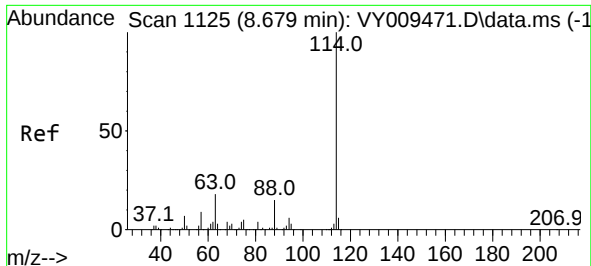
Tgt Ion: 56 Resp: 3188  
Ion Ratio Lower Upper  
56 100  
69 103.8 26.7 40.1#  
84 121.2 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 57.719 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 65 Resp: 53496  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 99.4

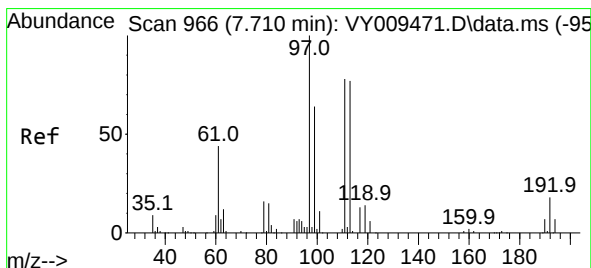
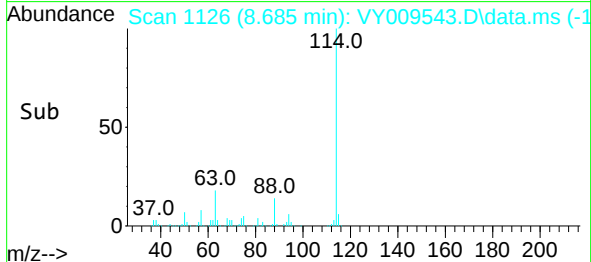
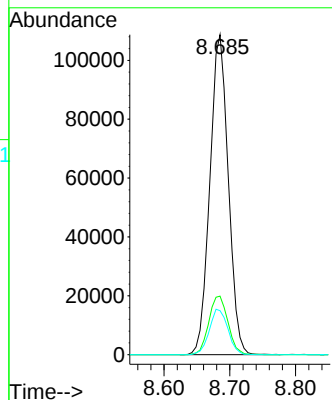
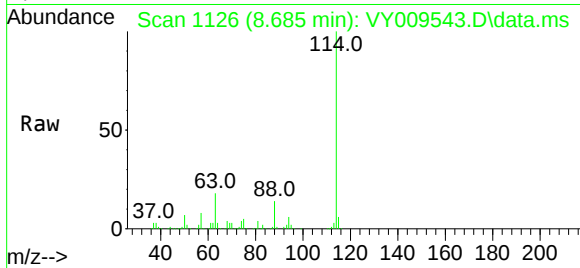




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1125  
Delta R.T. 0.006 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

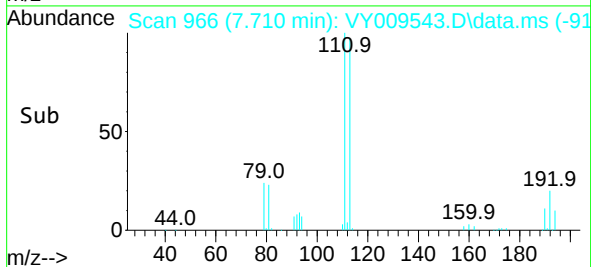
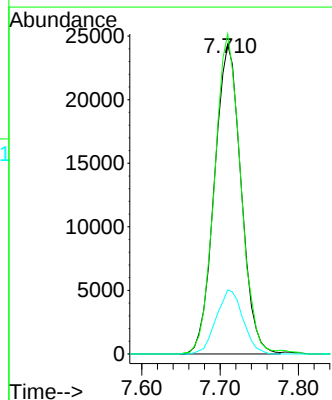
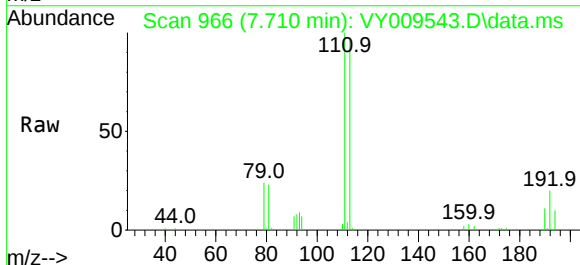
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20220497B-SIM/C3B-COMPOSITE

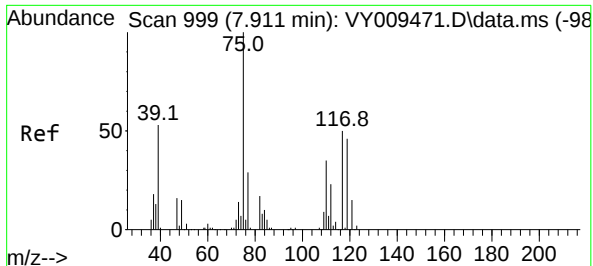
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 211757 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 18.3  | 0.0   | 43.2   |
| 88       | 13.8  | 0.0   | 31.8   |



#35  
Dibromofluoromethane  
Concen: 51.614 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 57508 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.1 | 82.6  | 124.0 |
| 192      | 20.7  | 17.6  | 26.4  |

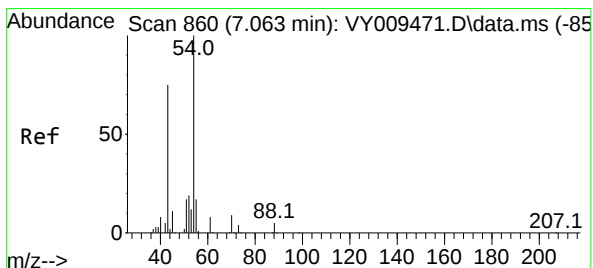
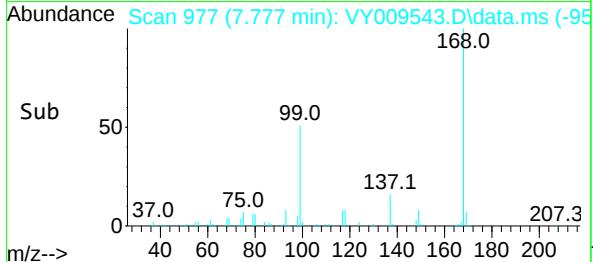
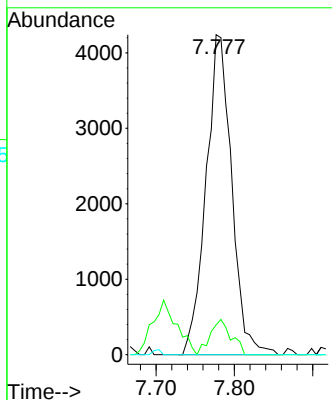
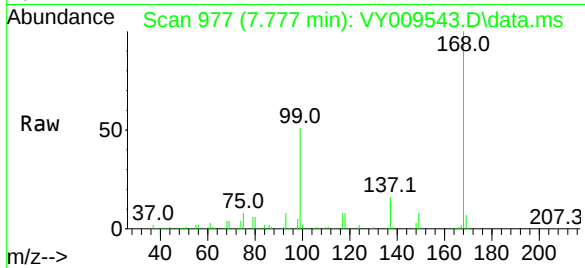




#36  
1,1-Dichloropropene  
Concen: 5.319 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.134 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

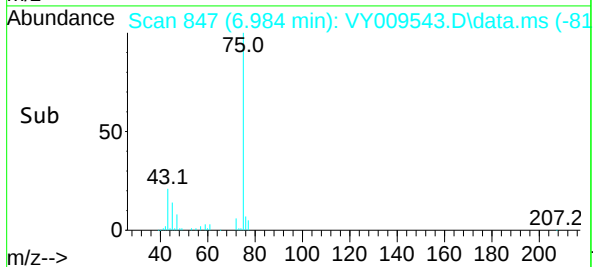
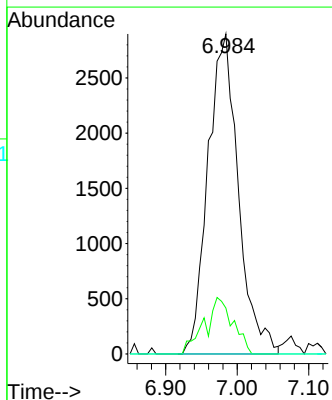
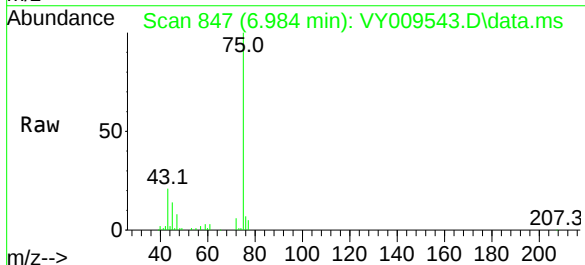
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220497B-SIM/C3B-COMPOSITE

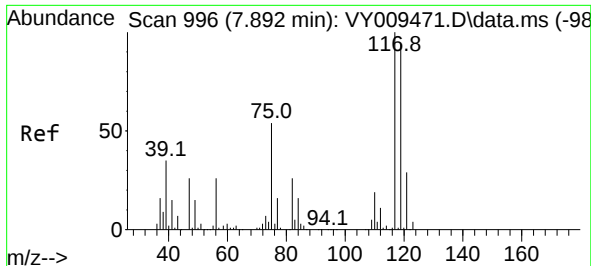
Tgt Ion: 75 Resp: 9648  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.1 51.2#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 7.527 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. -0.079 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

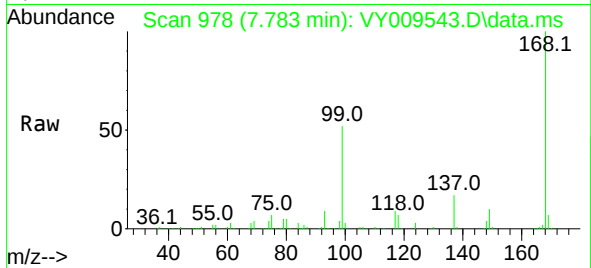
Tgt Ion: 43 Resp: 8559  
Ion Ratio Lower Upper  
43 100  
61 16.5 9.7 14.5#  
70 0.0 7.1 10.7#



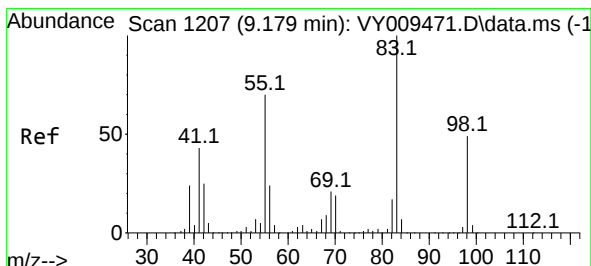
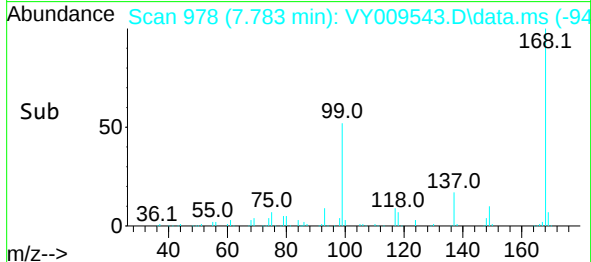
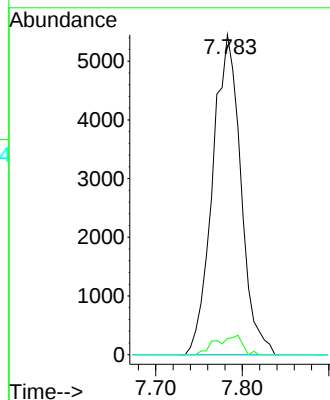


#38  
Carbon Tetrachloride  
Concen: 6.367 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.109 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220497B-SIM/C3B-COMPOSITE

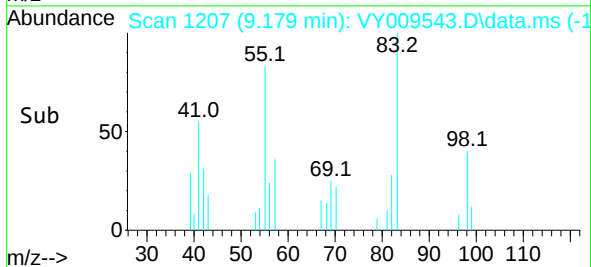
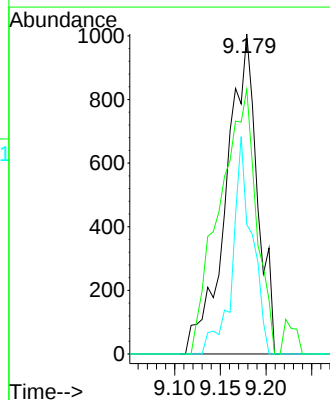
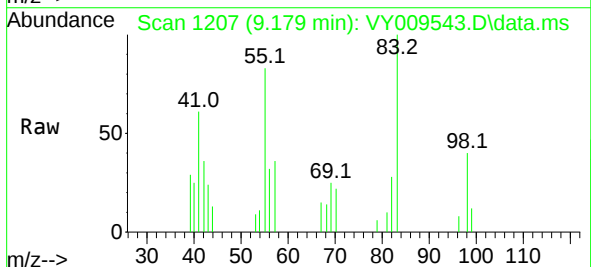


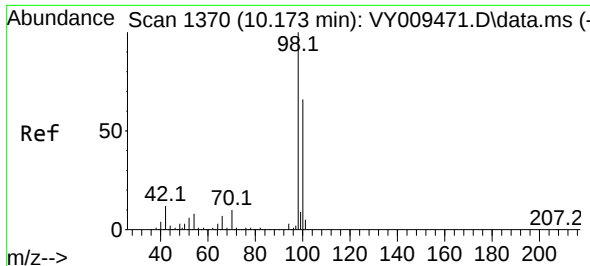
Tgt Ion:117 Resp: 12352  
Ion Ratio Lower Upper  
117 100  
119 5.0 77.9 116.9#  
121 0.0 24.8 37.2#



#39  
Methylcyclohexane  
Concen: 1.097 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. -0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 83 Resp: 2389  
Ion Ratio Lower Upper  
83 100  
55 82.7 66.5 99.7  
98 40.5 37.9 56.9

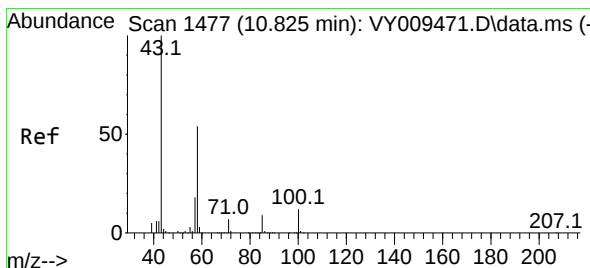
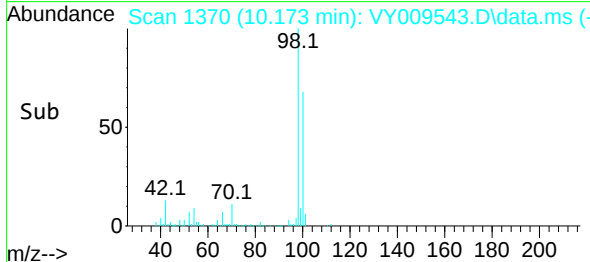
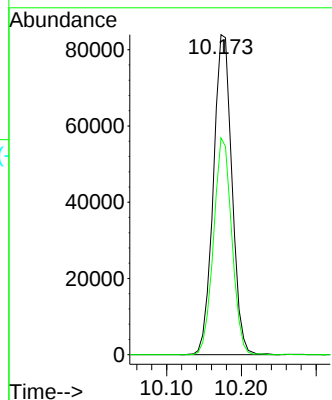
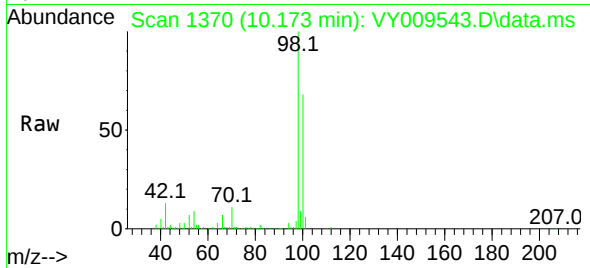




#50  
Toluene-d8  
Concen: 47.117 ug/l  
RT: 10.173 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

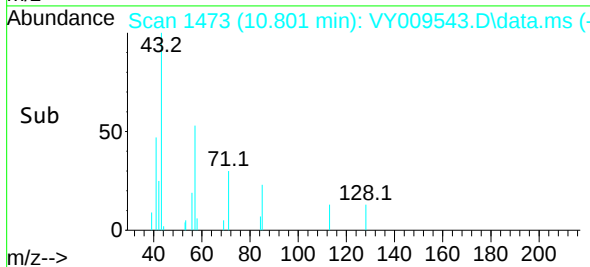
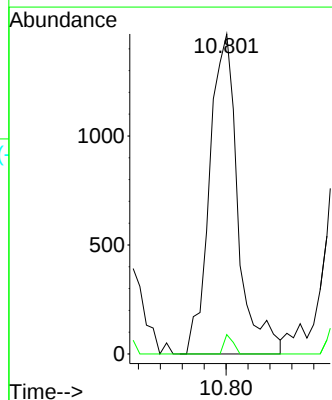
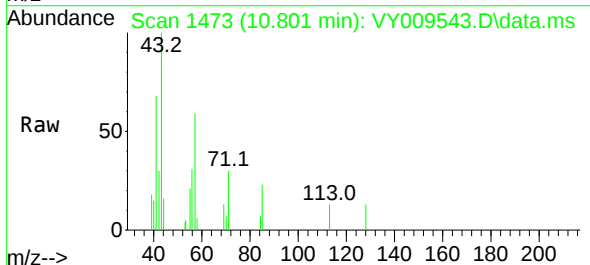
Instrument : MSVOA\_Y  
ClientSampleId : 20220497B-SIM/C3B-COMPOSITE

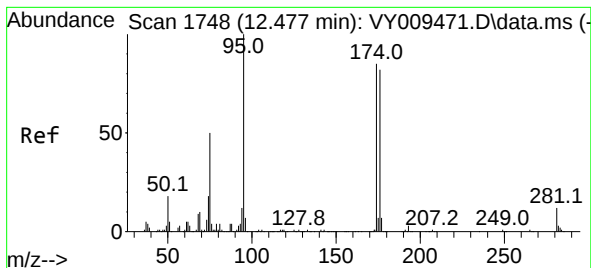
Tgt Ion: 98 Resp: 145368  
Ion Ratio Lower Upper  
98 100  
100 66.3 50.2 75.2



#59  
2-Hexanone  
Concen: 3.411 ug/l  
RT: 10.801 min Scan# 1473  
Delta R.T. -0.024 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 43 Resp: 2637  
Ion Ratio Lower Upper  
43 100  
58 2.0 24.4 73.4#

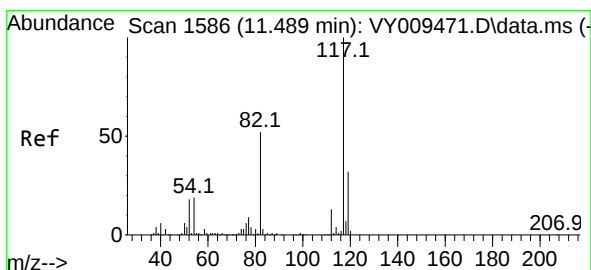
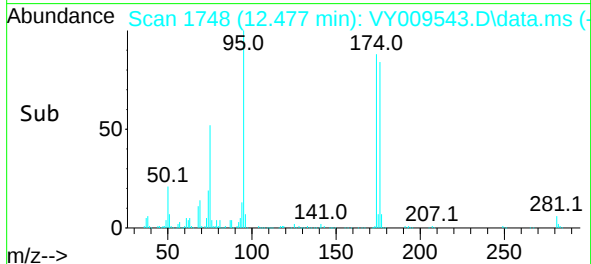
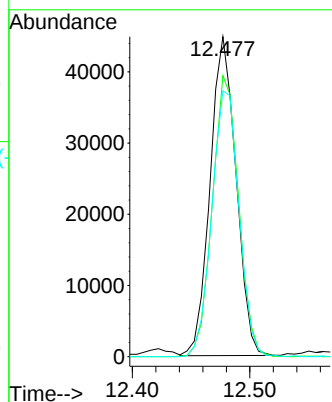
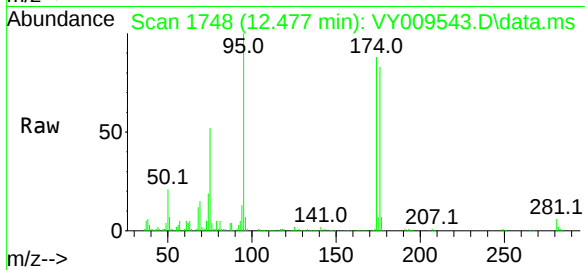




#62  
4-Bromofluorobenzene  
Concen: 43.623 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

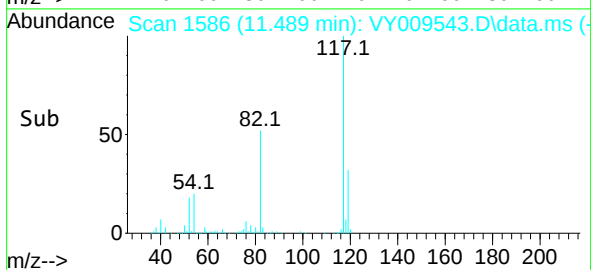
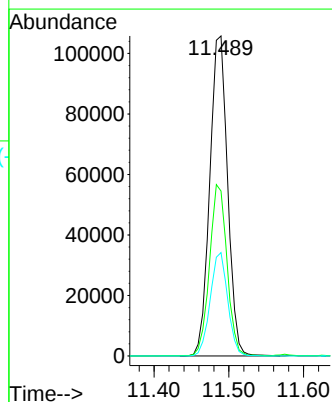
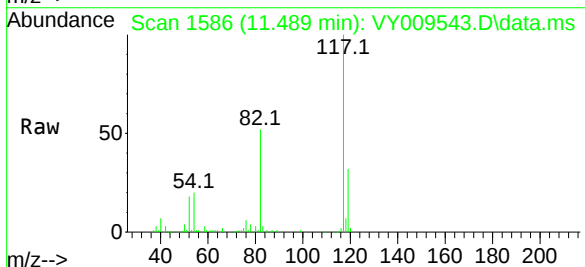
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220497B-SIM/C3B-COMPOSITE

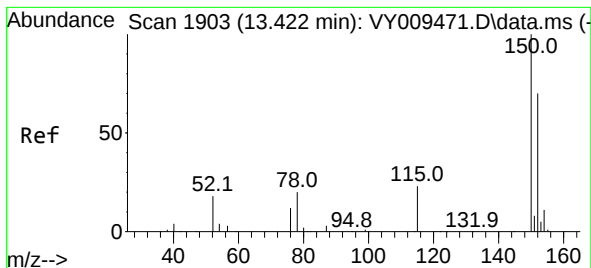
Tgt Ion: 95 Resp: 68610  
Ion Ratio Lower Upper  
95 100  
174 89.0 0.0 177.0  
176 87.4 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 117 Resp: 175315  
Ion Ratio Lower Upper  
117 100  
82 51.5 43.0 64.4  
119 32.3 25.4 38.0

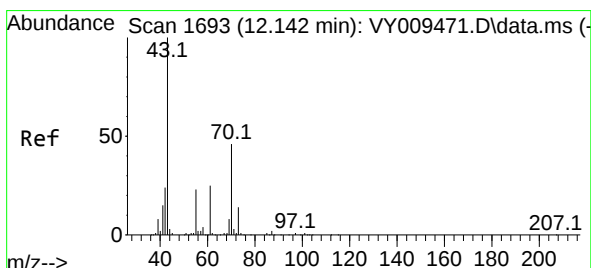
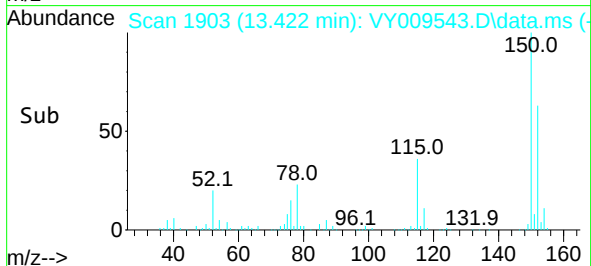
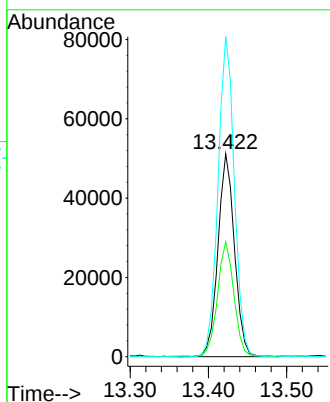
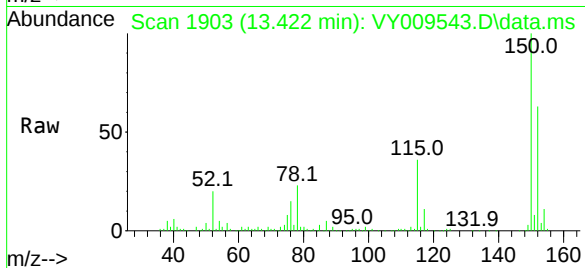




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.000 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

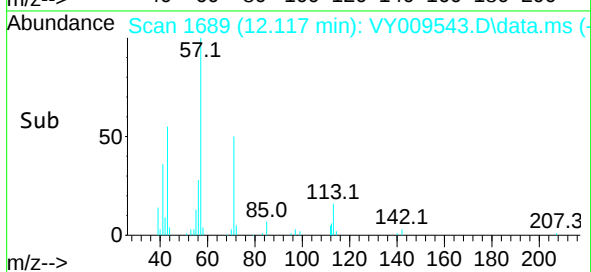
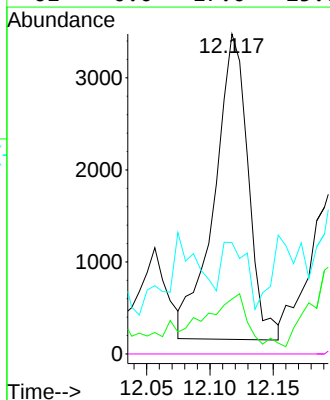
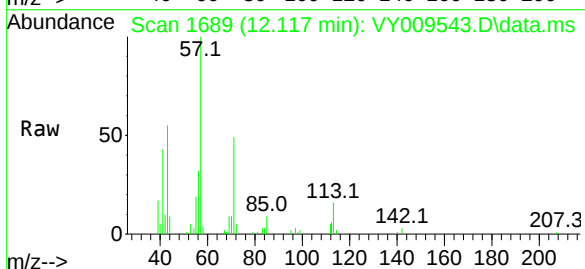
Instrument : MSVOA\_Y  
ClientSampleId : 20220497B-SIM/C3B-COMPOSITE

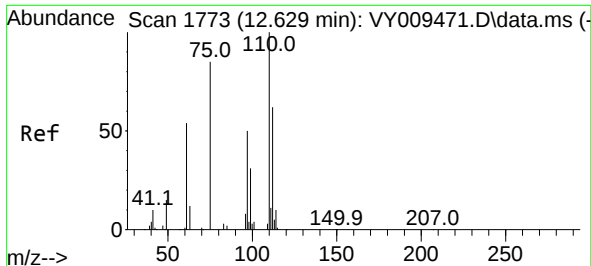
Tgt Ion:152 Resp: 75125  
Ion Ratio Lower Upper  
152 100  
115 56.4 28.2 84.7  
150 155.8 0.0 347.6



#74  
N-ethyl acetate  
Concen: 4.206 ug/l  
RT: 12.117 min Scan# 1689  
Delta R.T. -0.025 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 43 Resp: 6148  
Ion Ratio Lower Upper  
43 100  
70 23.8 28.7 43.1#  
55 21.6 17.3 25.9  
61 0.0 17.0 25.6#

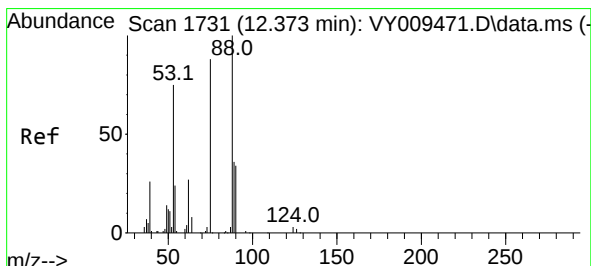
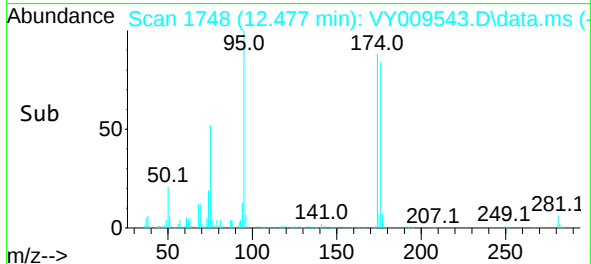
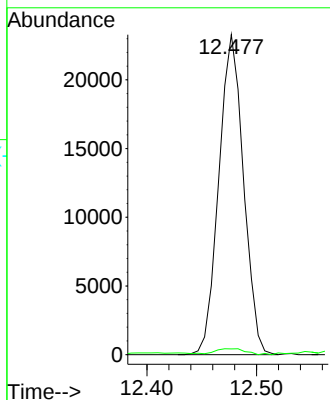
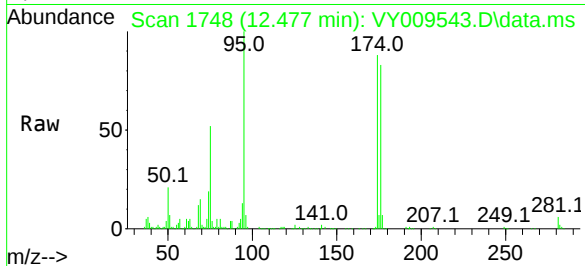




#76  
1,2,3-Trichloropropane  
Concen: 45.755 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.152 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

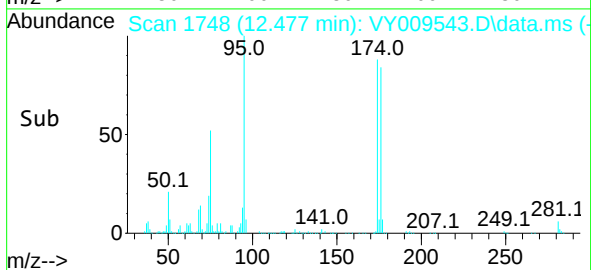
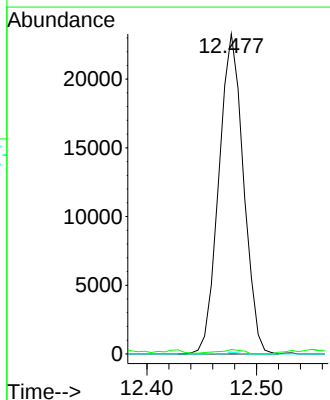
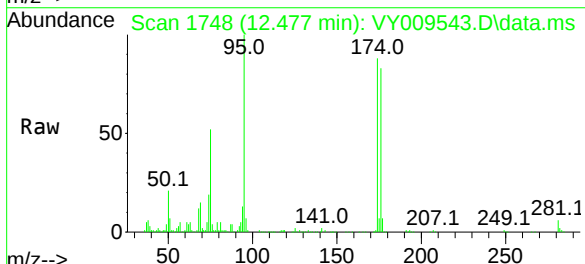
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20220497B-SIM/C3B-COMPOSITE

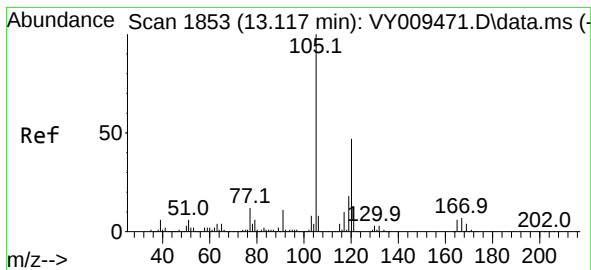
Tgt Ion: 75 Resp: 36387  
Ion Ratio Lower Upper  
75 100  
77 2.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 93.644 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY009543.D  
Acq: 12 Jul 2022 19:21

Tgt Ion: 75 Resp: 36387  
Ion Ratio Lower Upper  
75 100  
53 1.4 85.3 127.9#  
89 0.2 37.0 55.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.114 ug/l

RT: 13.123 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY009543.D

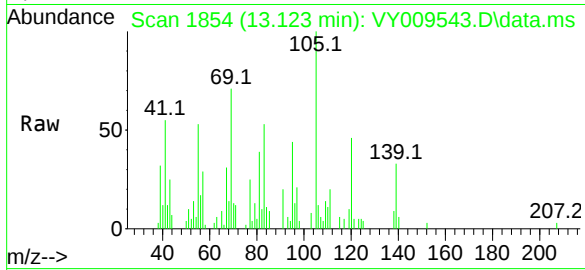
Acq: 12 Jul 2022 19:21

Instrument :

MSVOA\_Y

ClientSampleId :

20220497B-SIM/C3B-COMPOSITE



Tgt Ion:105 Resp: 4762

Ion Ratio Lower Upper

105 100

120 42.8 22.3 66.9

