

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011222\  
 Data File : VD071683.D  
 Acq On : 12 Jan 2022 13:45  
 Operator : VA/SY  
 Sample : N1097-01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1S

Quant Time: Jan 13 05:28:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D010722S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 07 15:39:14 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 9390     | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 16867    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.637 | 117  | 15857    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 6935     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |             |      |
|-----------------------------|--------|-------|----------|----------|-------------|------|
| System Monitoring Compounds |        |       |          |          |             |      |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 10594    | 87.682   | ug/l        | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 175.360%# |      |
| 35) Dibromofluoromethane    | 7.914  | 113   | 5322     | 47.744   | ug/l        | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 95.480%   |      |
| 50) Toluene-d8              | 10.331 | 98    | 21350    | 51.166   | ug/l        | 0.00 |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 102.340%  |      |
| 62) 4-Bromofluorobenzene    | 12.625 | 95    | 7036     | 47.853   | ug/l        | 0.00 |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 95.700%   |      |

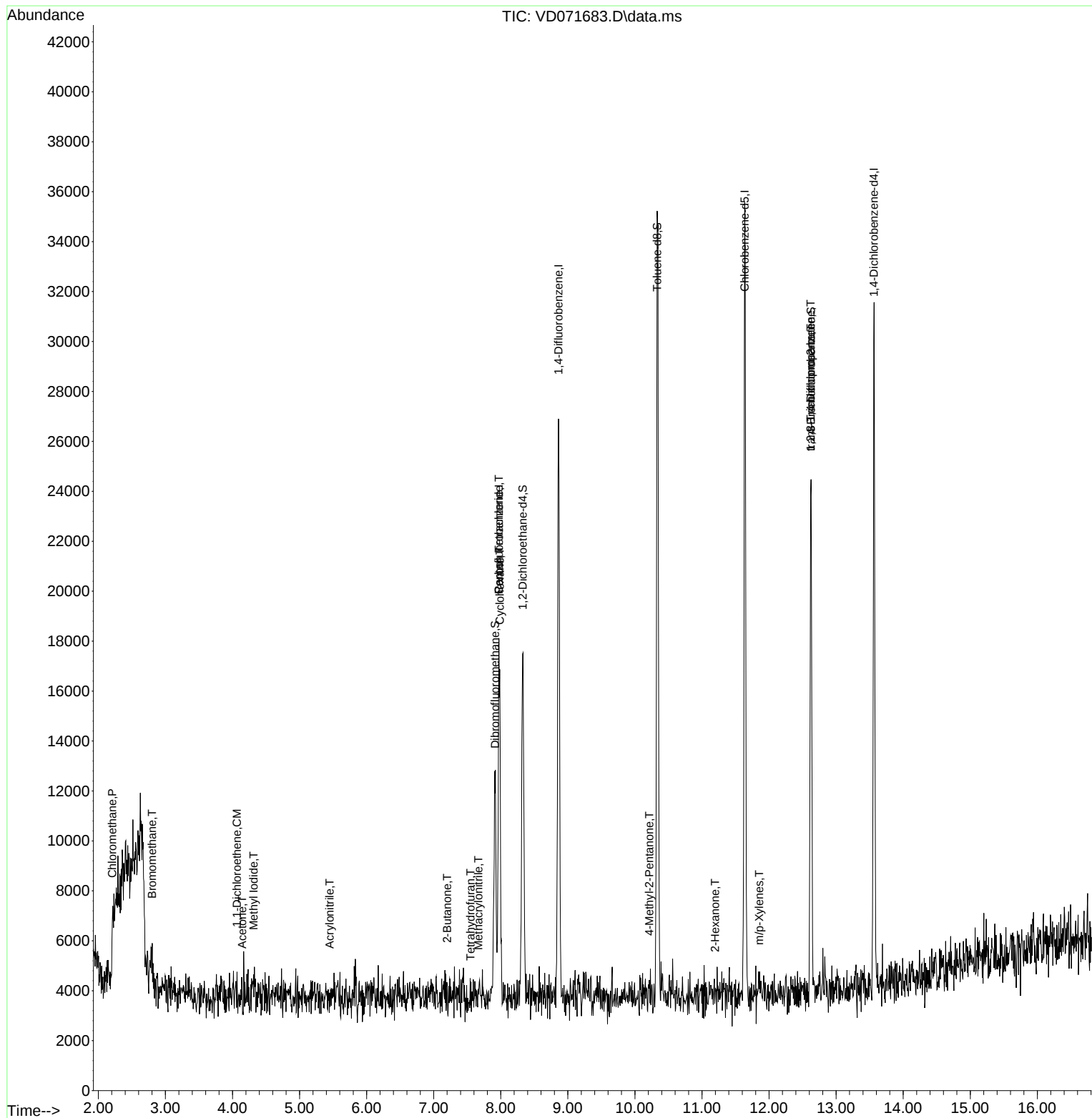
|                               |        |     |        |           |        |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| Target Compounds              |        |     | Qvalue |           |        |     |
| 3) Chloromethane              | 2.208  | 50  | 702    | 6.621     | ug/l # | 43  |
| 5) Bromomethane               | 2.802  | 94  | 987    | 12.128    | ug/l # | 59  |
| 10) Methyl Iodide             | 4.314  | 142 | 1024   | 11.071    | ug/l # | 47  |
| 12) 1,1-Dichloroethene        | 4.067  | 96  | 90     | 1.072     | ug/l # | 1   |
| 15) Acrylonitrile             | 5.449  | 53  | 64     | 2.782     | ug/l # | 75  |
| 16) Acetone                   | 4.144  | 43  | 244    | 8.747     | ug/l # | 49  |
| 20) Methylene Chloride        | 4.955  | 84  | 61     | Below Cal | #      | 1   |
| 25) 2-Butanone                | 7.202  | 43  | 55     | 1.669     | ug/l # | 56  |
| 29) Tetrahydrofuran           | 7.549  | 42  | 76     | 4.008     | ug/l # | 39  |
| 31) Cyclohexane               | 7.984  | 56  | 128    | 1.081     | ug/l # | 1   |
| 38) Carbon Tetrachloride      | 7.973  | 117 | 983    | 6.105     | ug/l # | 14  |
| 41) Methacrylonitrile         | 7.667  | 41  | 73     | 2.699     | ug/l # | 25  |
| 51) 4-Methyl-2-Pentanone      | 10.214 | 43  | 171    | 2.330     | ug/l # | 40  |
| 59) 2-Hexanone                | 11.196 | 43  | 127    | 2.478     | ug/l   | 91  |
| 68) m/p-Xylenes               | 11.855 | 106 | 237    | 1.144     | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75  | 3598   | 53.692    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75  | 3598   | 149.688   | ug/l # | 3   |

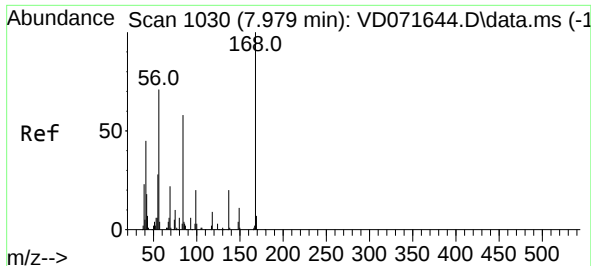
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD011222\  
Data File : VD071683.D  
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Operator : VA/SY  
Sample : N1097-01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

Quant Time: Jan 13 05:28:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D010722S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 07 15:39:14 2022  
Response via : Initial Calibration

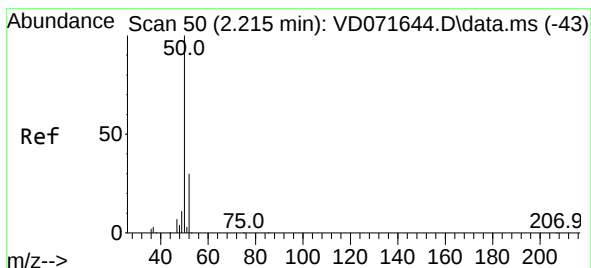
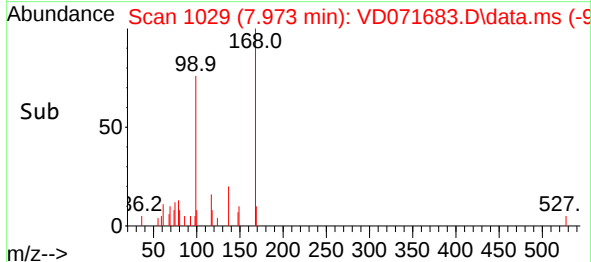
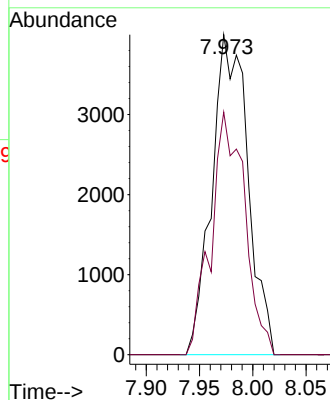
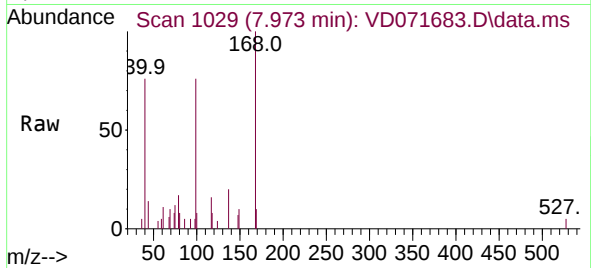




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

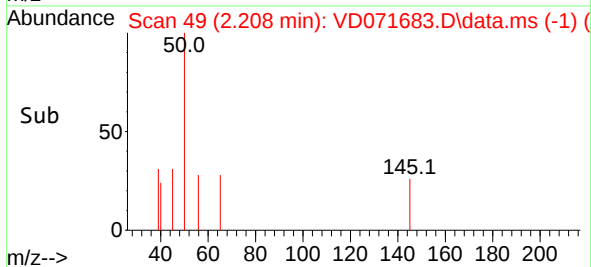
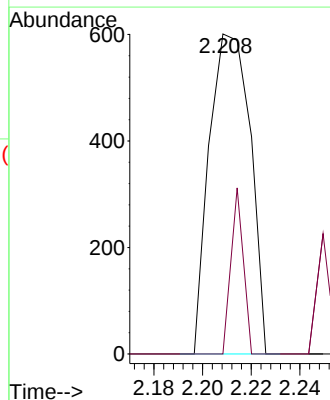
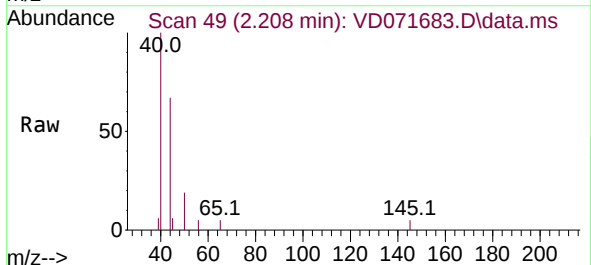
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MSVOA\_D  
ClientSampleId :  
TP-1S

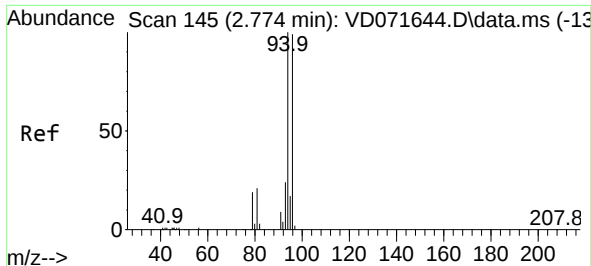
Tgt Ion:168 Resp: 9390  
Ion Ratio Lower Upper  
168 100  
99 75.8 51.8 77.6



#3  
Chloromethane  
Concen: 6.621 ug/l  
RT: 2.208 min Scan# 49  
Delta R.T. -0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 50 Resp: 702  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.0#

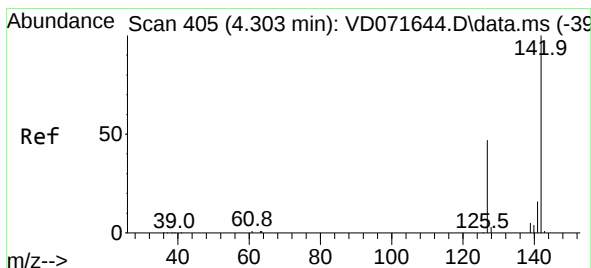
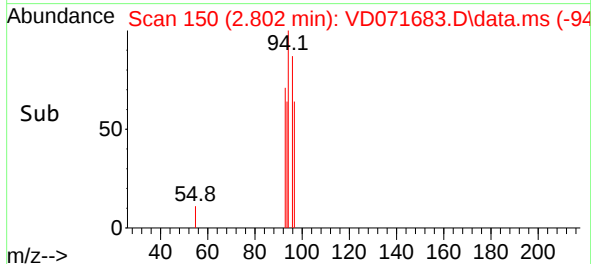
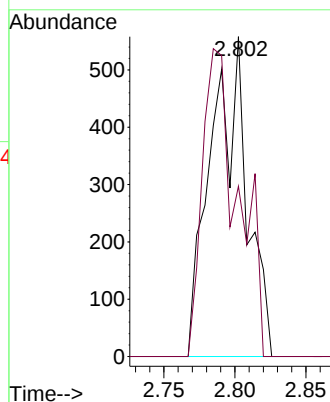
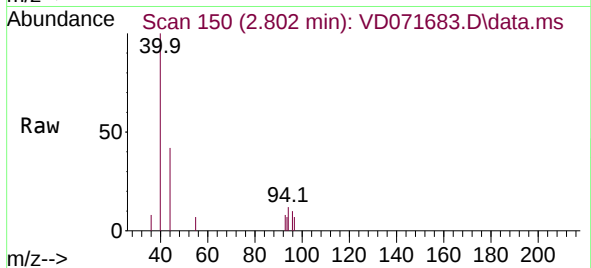




#5  
Bromomethane  
Concen: 12.128 ug/l  
RT: 2.802 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

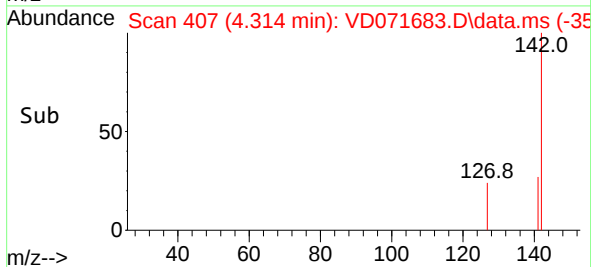
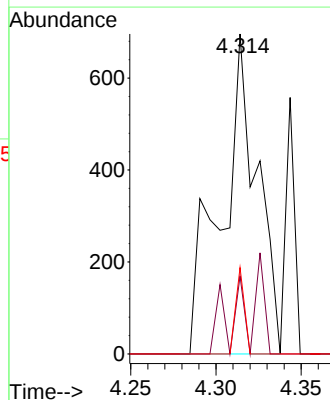
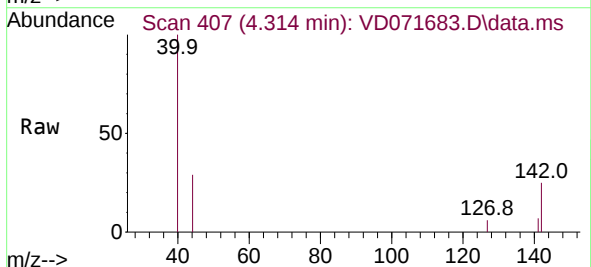
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

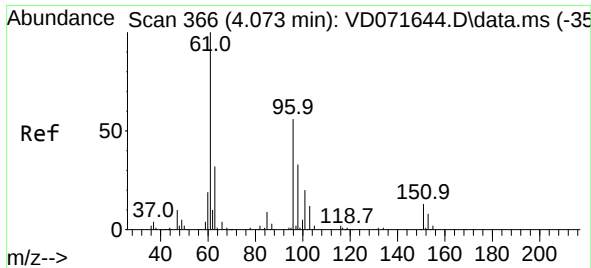
Tgt Ion: 94 Resp: 987  
Ion Ratio Lower Upper  
94 100  
96 53.2 73.7 110.5#



#10  
Methyl Iodide  
Concen: 11.071 ug/l  
RT: 4.314 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 142 Resp: 1024  
Ion Ratio Lower Upper  
142 100  
127 5.9 39.4 59.2#  
141 6.4 11.9 17.9#

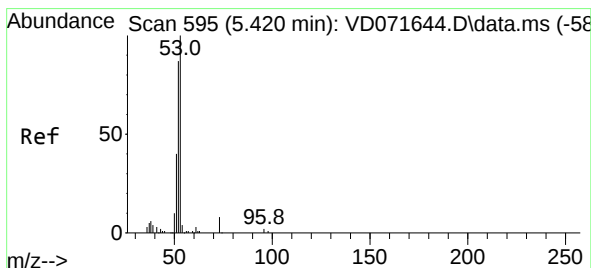
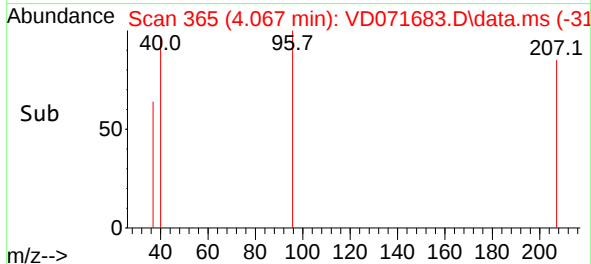
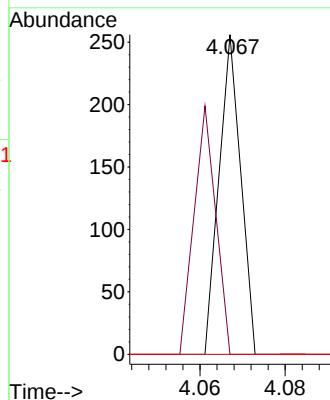
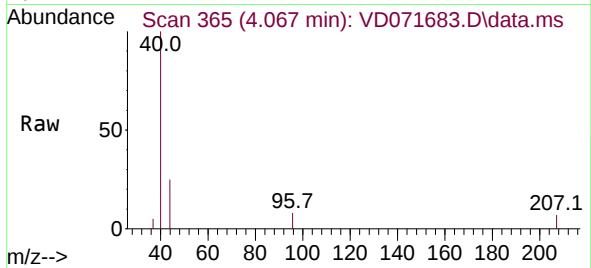




#12  
1,1-Dichloroethene  
Concen: 1.072 ug/l  
RT: 4.067 min Scan# 30  
Delta R.T. -0.012 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

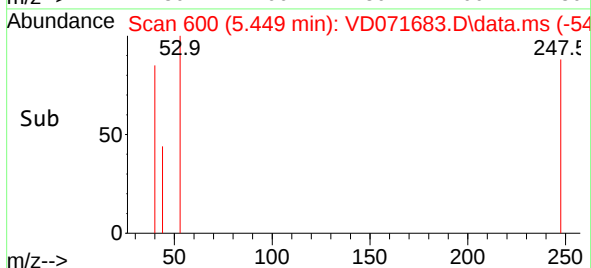
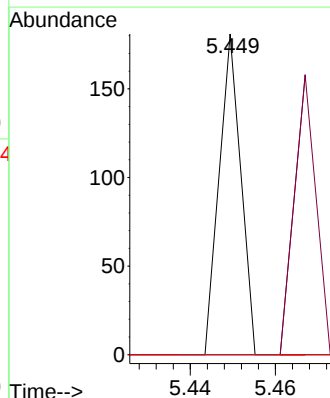
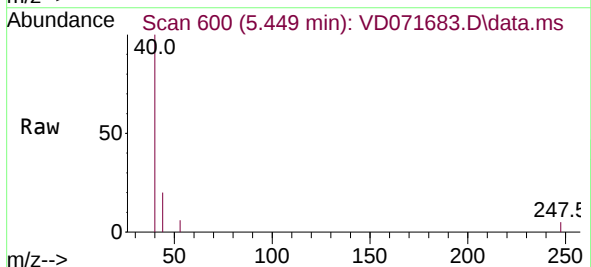
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

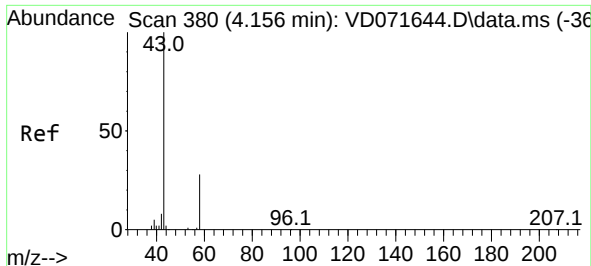
Tgt Ion: 96 Resp: 90  
Ion Ratio Lower Upper  
96 100  
61 0.0 137.8 206.8#  
98 0.0 48.3 72.5#



#15  
Acrylonitrile  
Concen: 2.782 ug/l  
RT: 5.449 min Scan# 600  
Delta R.T. 0.029 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 53 Resp: 64  
Ion Ratio Lower Upper  
53 100  
52 87.5 65.6 98.4  
51 0.0 31.2 46.8#

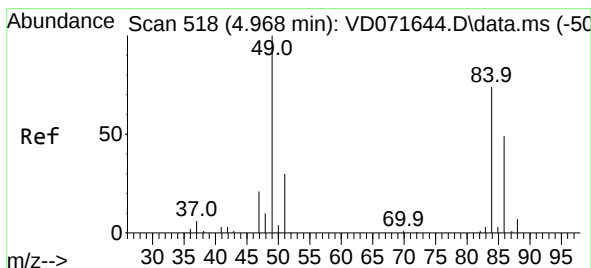
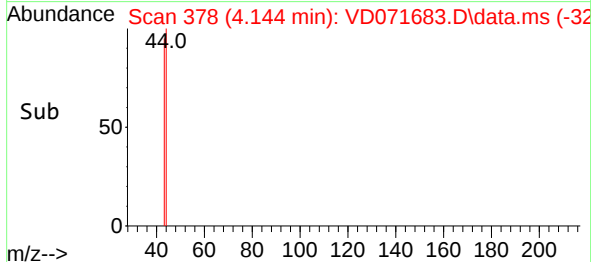
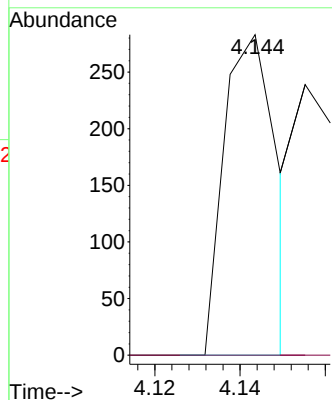
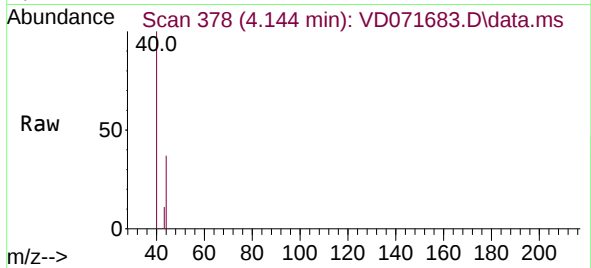




#16  
Acetone  
Concen: 8.747 ug/l  
RT: 4.144 min Scan# 316  
Delta R.T. -0.011 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

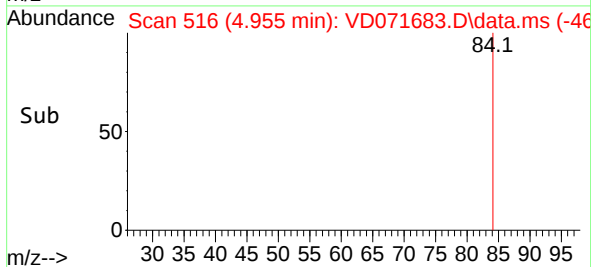
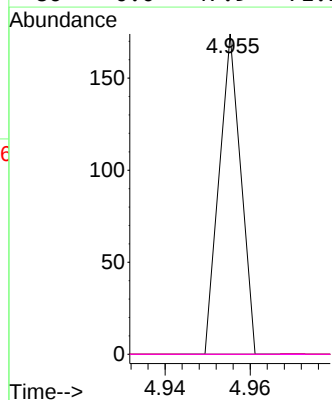
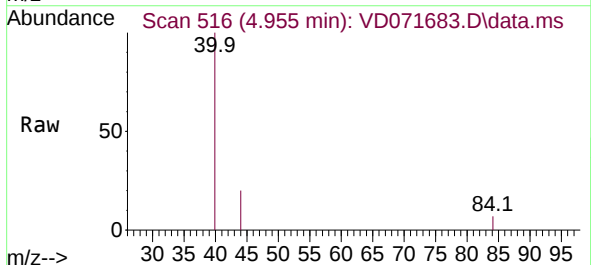
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

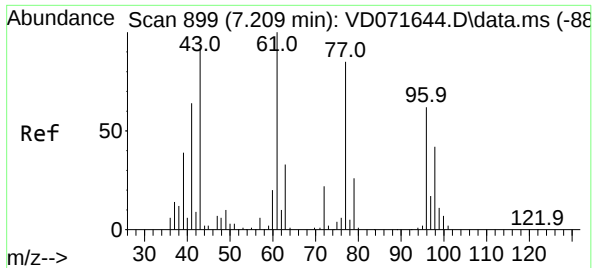
Tgt Ion: 43 Resp: 244  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.0 31.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.955 min Scan# 516  
Delta R.T. -0.012 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 84 Resp: 61  
Ion Ratio Lower Upper  
84 100  
49 0.0 118.6 178.0#  
51 0.0 37.8 56.6#  
86 0.0 47.9 71.9#





#25

2-Butanone

Concen: 1.669 ug/l

RT: 7.202 min Scan# 899

Delta R.T. -0.006 min

Lab File: VD071683.D

Acq: 12 Jan 2022 13:45

Instrument :

MSVOA\_D

ClientSampleId :

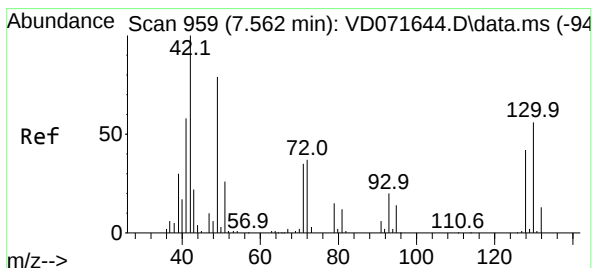
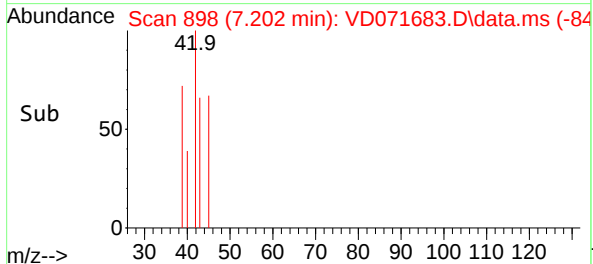
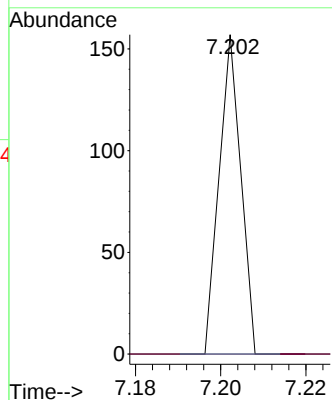
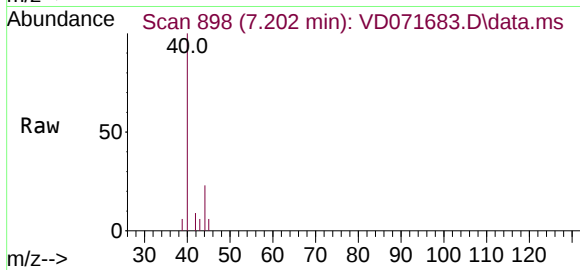
TP-1S

Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

72 0.0 16.4 24.6#



#29

Tetrahydrofuran

Concen: 4.008 ug/l

RT: 7.549 min Scan# 957

Delta R.T. -0.012 min

Lab File: VD071683.D

Acq: 12 Jan 2022 13:45

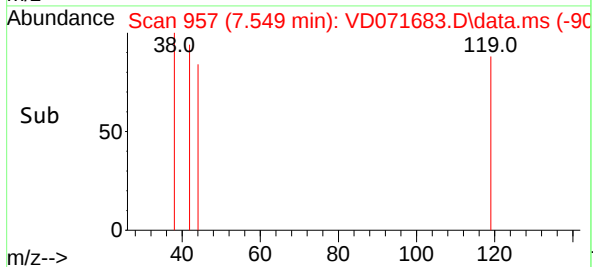
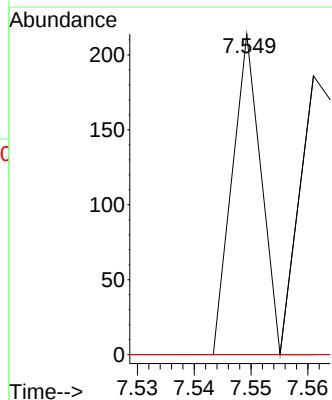
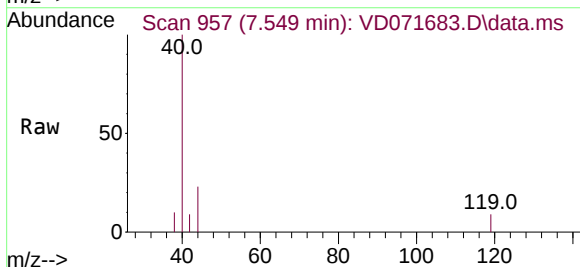
Tgt Ion: 42 Resp: 76

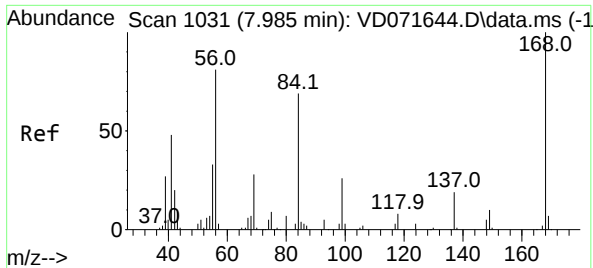
Ion Ratio Lower Upper

42 100

72 0.0 29.6 44.4#

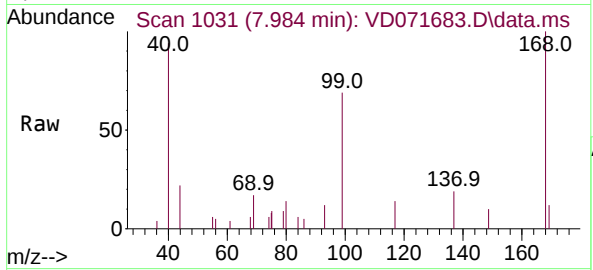
71 0.0 27.3 40.9#



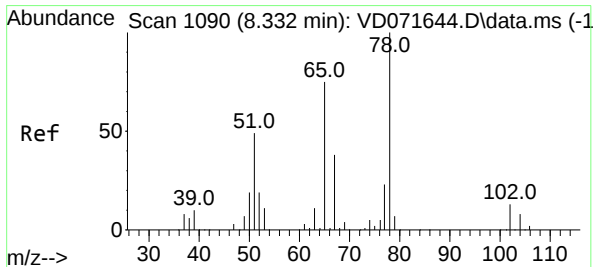
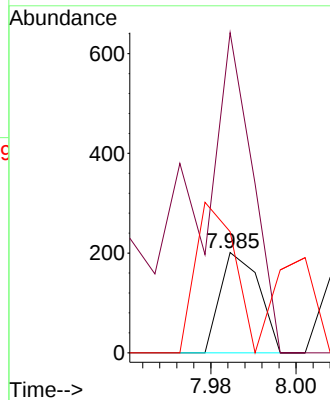
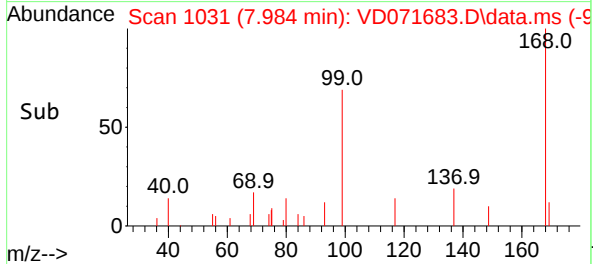


#31  
Cyclohexane  
Concen: 1.081 ug/l  
RT: 7.984 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
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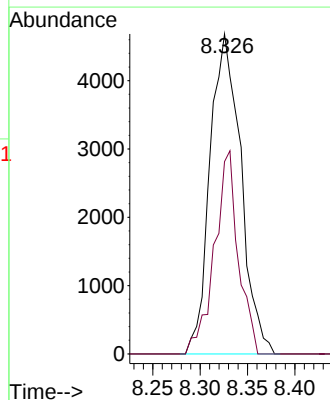
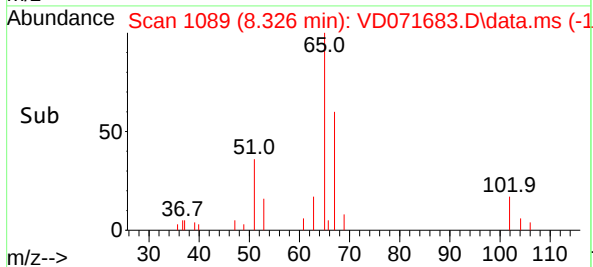
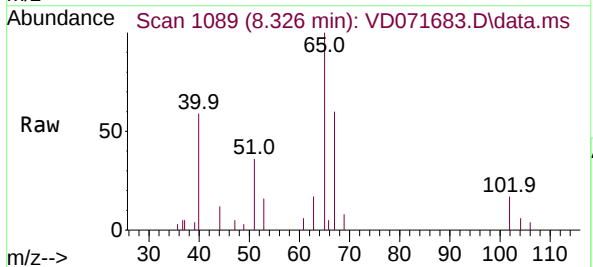


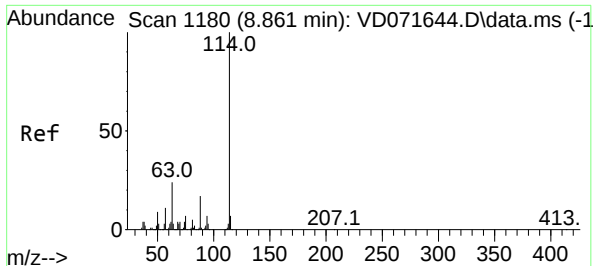
Tgt Ion: 56 Resp: 128  
Ion Ratio Lower Upper  
56 100  
69 319.4 21.7 32.5#  
84 120.9 65.7 98.5#



#33  
1,2-Dichloroethane-d4  
Concen: 87.682 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 65 Resp: 10594  
Ion Ratio Lower Upper  
65 100  
67 49.1 0.0 101.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.006 min

Lab File: VD071683.D

Acq: 12 Jan 2022 13:45

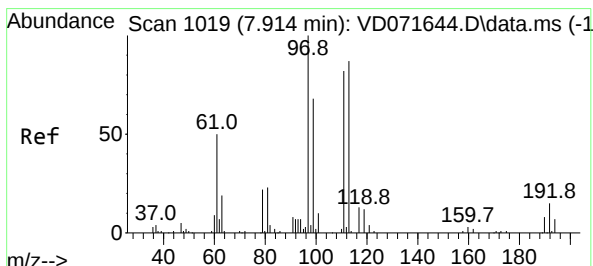
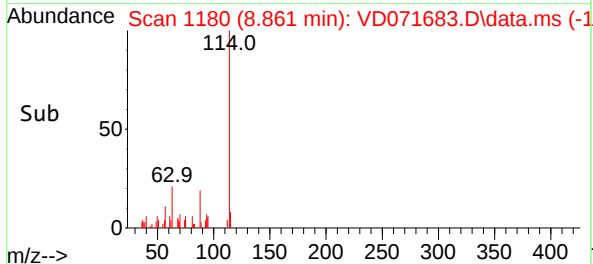
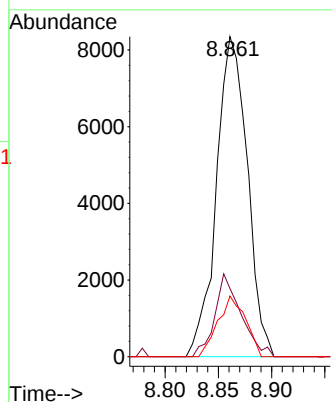
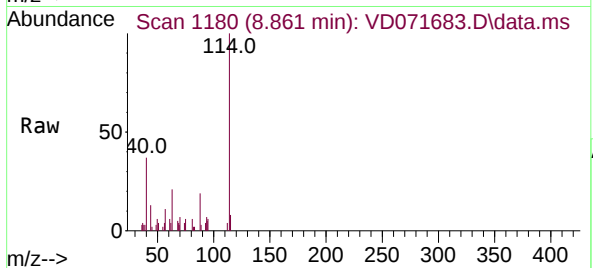
Instrument :

MSVOA\_D

ClientSampleId :

TP-1S

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:114 | Resp: | 16867    |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 21.3  | 0.0 46.2 |
| 88          | 19.0  | 0.0 32.0 |



#35

Dibromofluoromethane

Concen: 47.744 ug/l

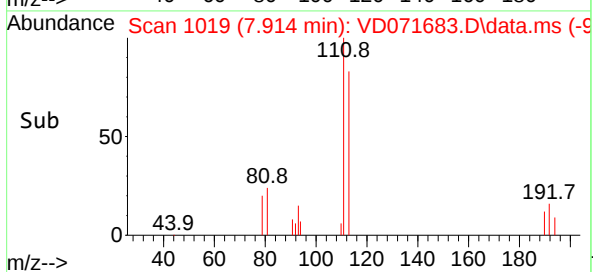
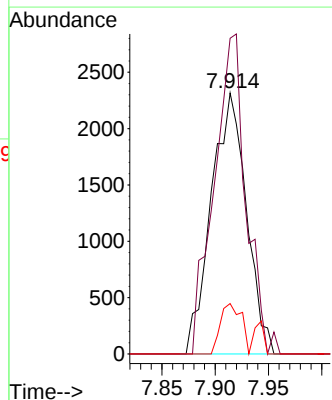
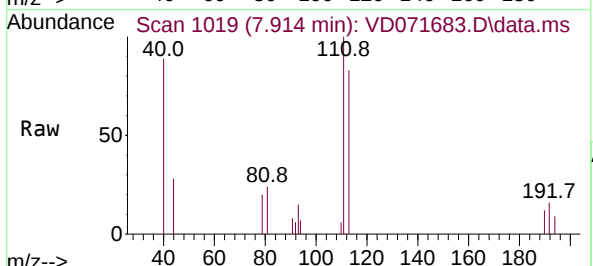
RT: 7.914 min Scan# 1019

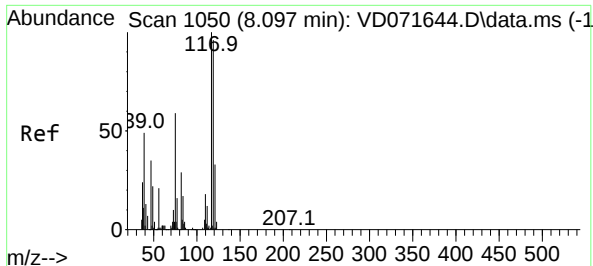
Delta R.T. -0.000 min

Lab File: VD071683.D

Acq: 12 Jan 2022 13:45

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 5322       |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 111.1 | 82.2 123.4 |
| 192         | 11.5  | 14.2 21.2# |

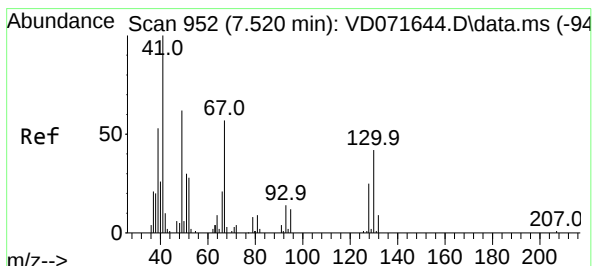
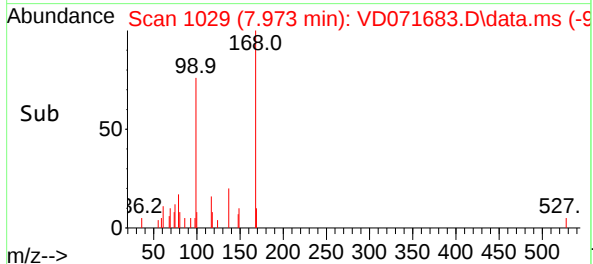
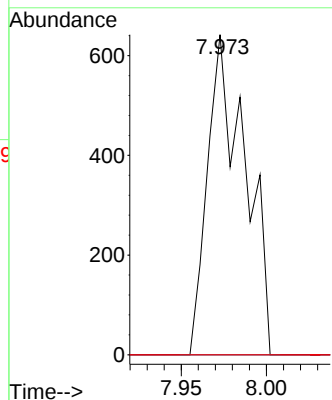
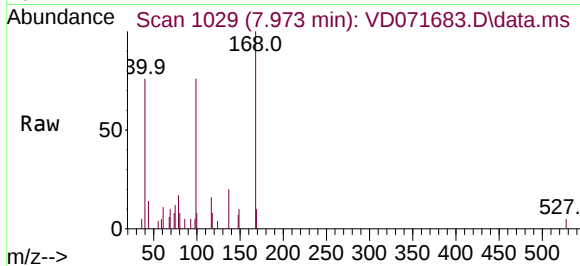




#38  
Carbon Tetrachloride  
Concen: 6.105 ug/l  
RT: 7.973 min Scan# 1050  
Delta R.T. -0.123 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

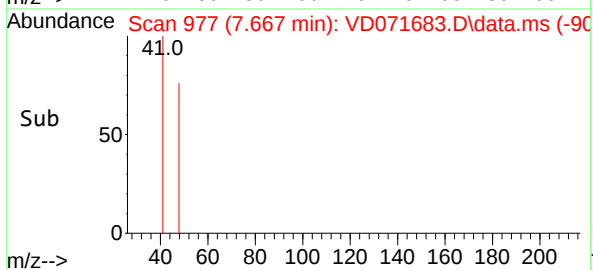
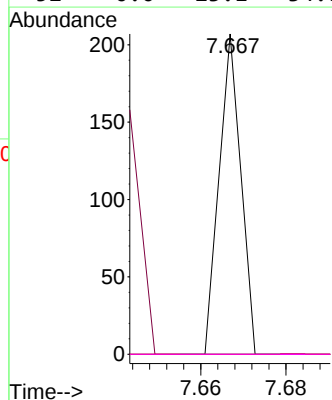
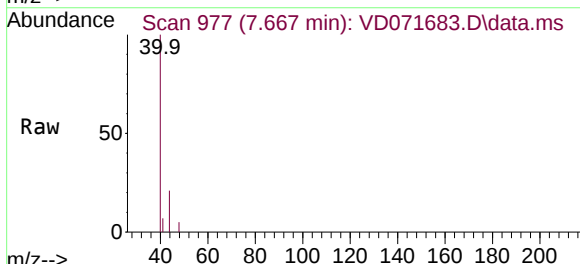
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

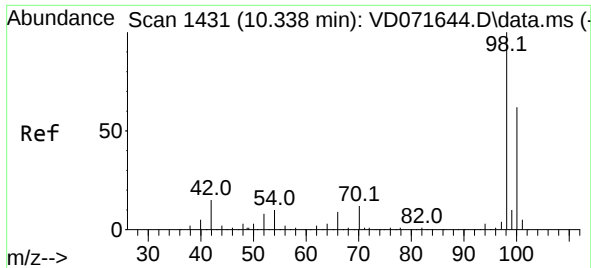
Tgt Ion:117 Resp: 983  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.4 110.2#  
121 0.0 23.9 35.9#



#41  
Methacrylonitrile  
Concen: 2.699 ug/l  
RT: 7.667 min Scan# 977  
Delta R.T. 0.147 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 41 Resp: 73  
Ion Ratio Lower Upper  
41 100  
39 0.0 46.9 70.3#  
67 0.0 49.3 73.9#  
52 0.0 23.1 34.7#

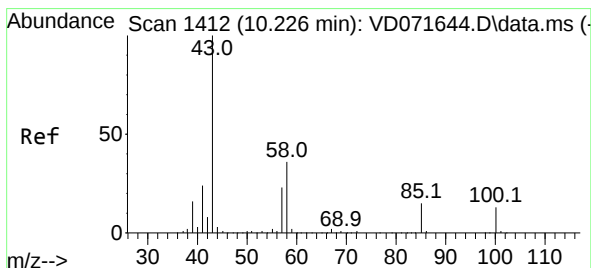
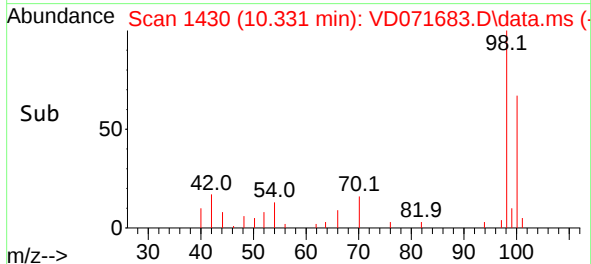
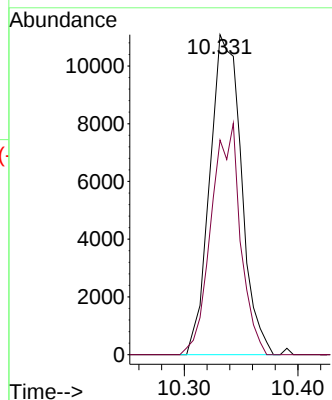
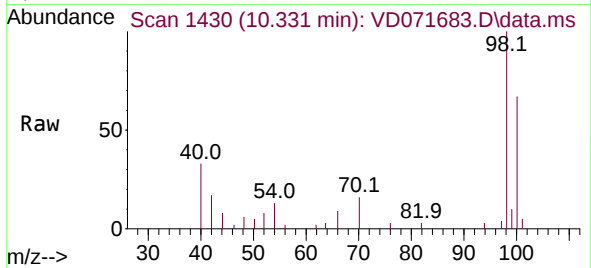




#50  
Toluene-d8  
Concen: 51.166 ug/l  
RT: 10.331 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

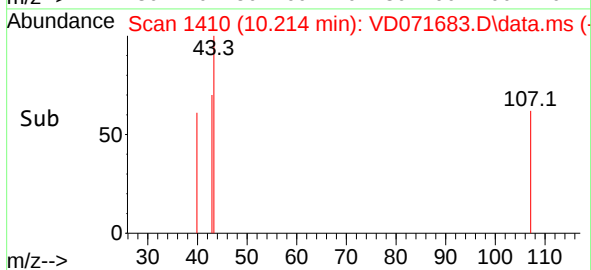
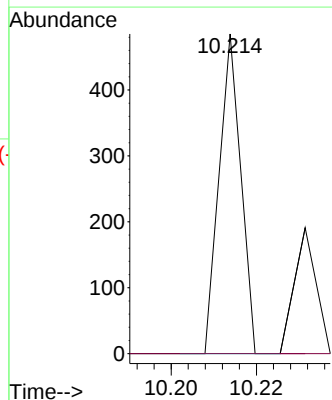
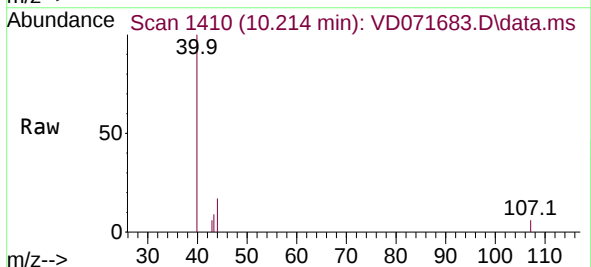
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

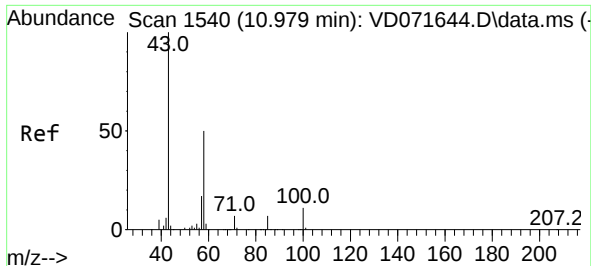
Tgt Ion: 98 Resp: 21350  
Ion Ratio Lower Upper  
98 100  
100 66.8 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 2.330 ug/l  
RT: 10.214 min Scan# 1410  
Delta R.T. -0.012 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 43 Resp: 171  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.2 42.2#

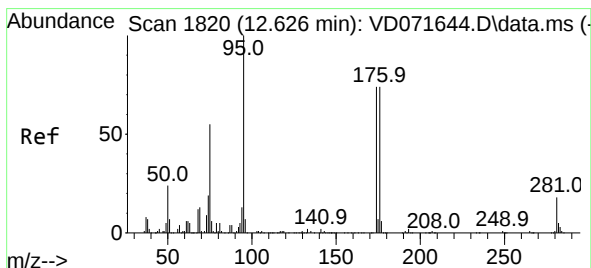
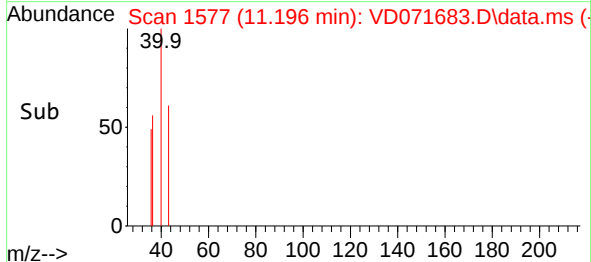
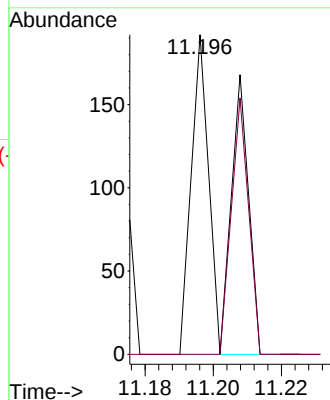
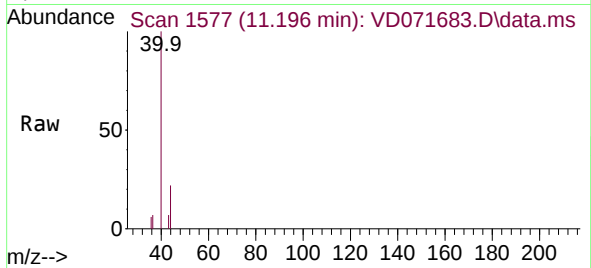




#59  
2-Hexanone  
Concen: 2.478 ug/l  
RT: 11.196 min Scan# 11  
Delta R.T. 0.217 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

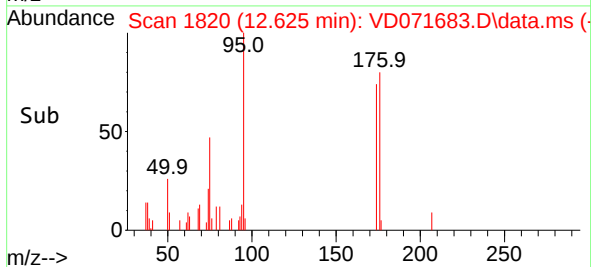
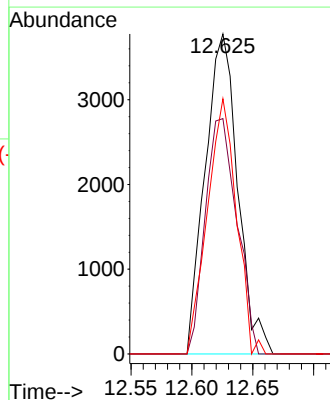
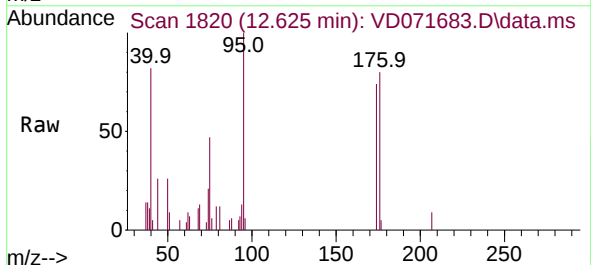
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

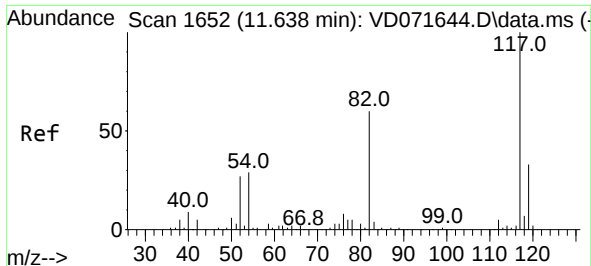
Tgt Ion: 43 Resp: 127  
Ion Ratio Lower Upper  
43 100  
58 42.5 24.3 72.8



#62  
4-Bromofluorobenzene  
Concen: 47.853 ug/l  
RT: 12.625 min Scan# 1820  
Delta R.T. -0.001 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion: 95 Resp: 7036  
Ion Ratio Lower Upper  
95 100  
174 71.6 0.0 150.0  
176 71.0 0.0 146.4

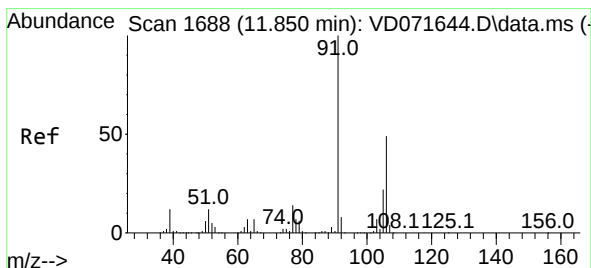
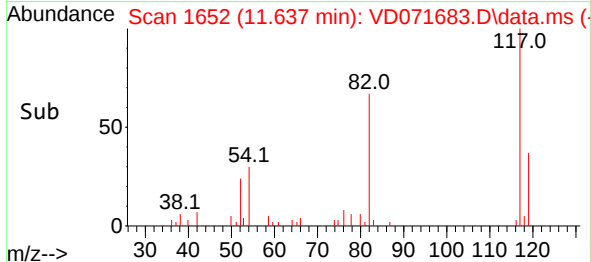
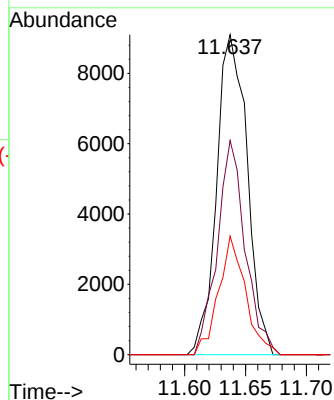
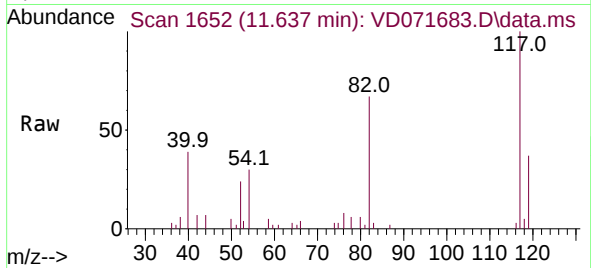




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.637 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

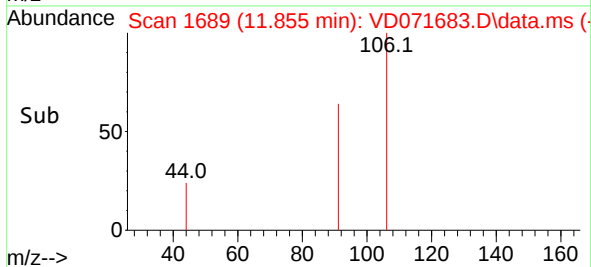
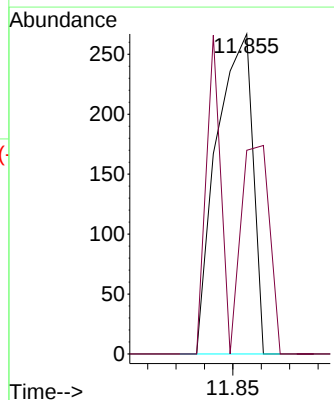
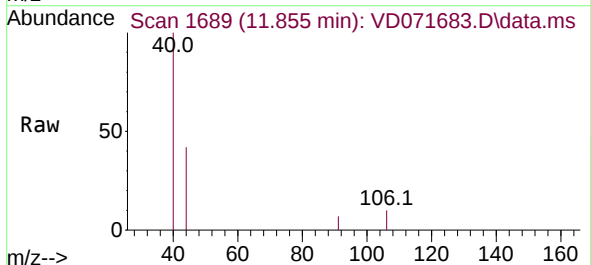
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-1S

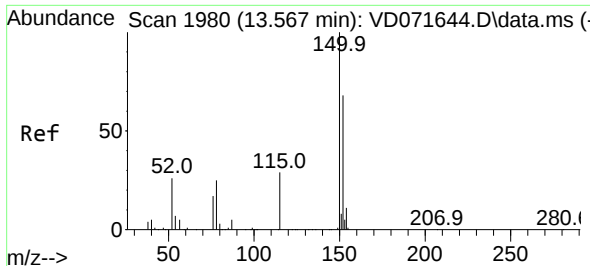
Tgt Ion:117 Resp: 15857  
Ion Ratio Lower Upper  
117 100  
82 66.9 46.9 70.3  
119 37.0 26.6 39.8



#68  
m/p-Xylenes  
Concen: 1.144 ug/l  
RT: 11.855 min Scan# 1689  
Delta R.T. 0.006 min  
Lab File: VD071683.D  
Acq: 12 Jan 2022 13:45

Tgt Ion:106 Resp: 237  
Ion Ratio Lower Upper  
106 100  
91 39.7 168.6 252.8#

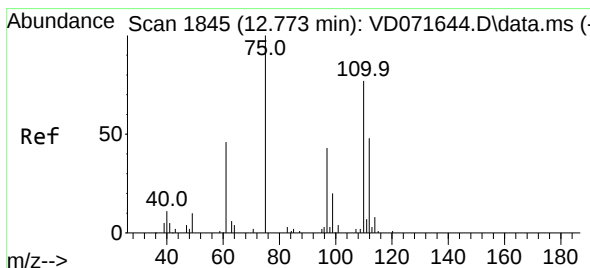
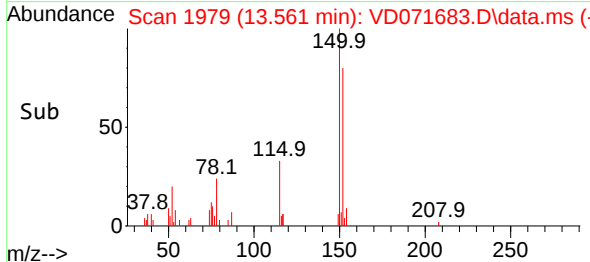
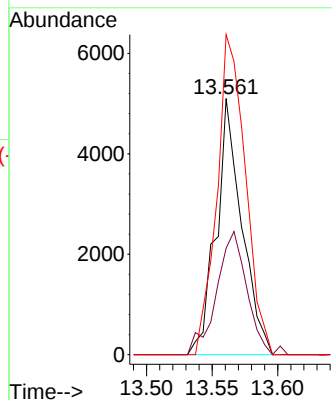
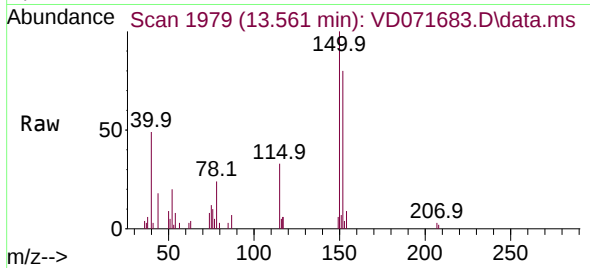




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.561 min Scan# 1819  
 Delta R.T. -0.006 min  
 Lab File: VD071683.D  
 Acq: 12 Jan 2022 13:45

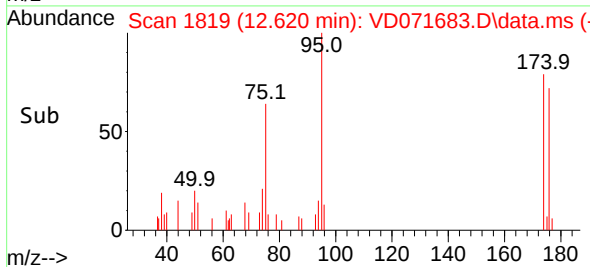
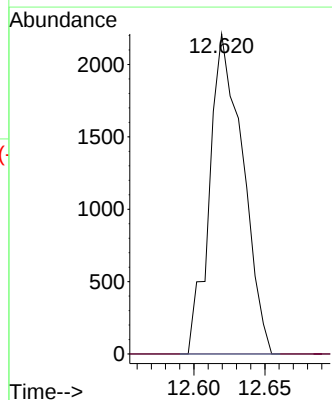
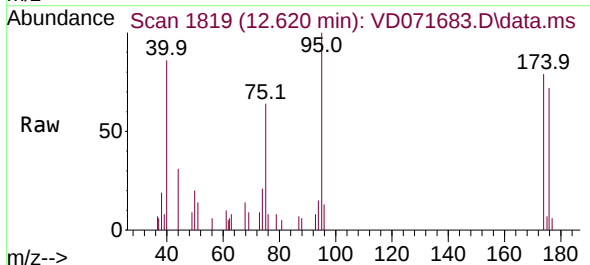
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1S

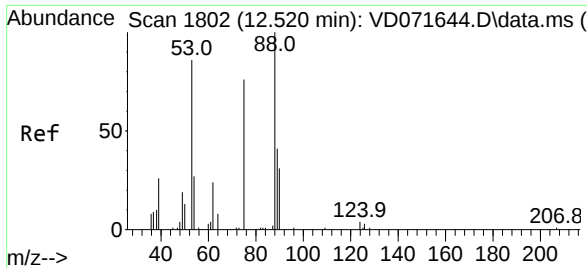
Tgt Ion:152 Resp: 6935  
 Ion Ratio Lower Upper  
 152 100  
 115 57.2 31.5 94.5  
 150 138.9 0.0 348.0



#76  
 1,2,3-Trichloropropane  
 Concen: 53.692 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. -0.153 min  
 Lab File: VD071683.D  
 Acq: 12 Jan 2022 13:45

Tgt Ion: 75 Resp: 3598  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 149.688 ug/l  
 RT: 12.620 min Scan# 1802  
 Delta R.T. 0.100 min  
 Lab File: VD071683.D  
 Acq: 12 Jan 2022 13:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-1S

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 3598   |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 53        | 0.0   | 95.4  | 143.0# |
| 89        | 0.0   | 37.2  | 55.8#  |

