

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041223\  
 Data File : VY013273.D  
 Acq On : 12 Apr 2023 17:45  
 Operator : KP/MD  
 Sample : 02292-07  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 IDW-SO-G2-041123

Quant Time: Apr 13 06:17:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

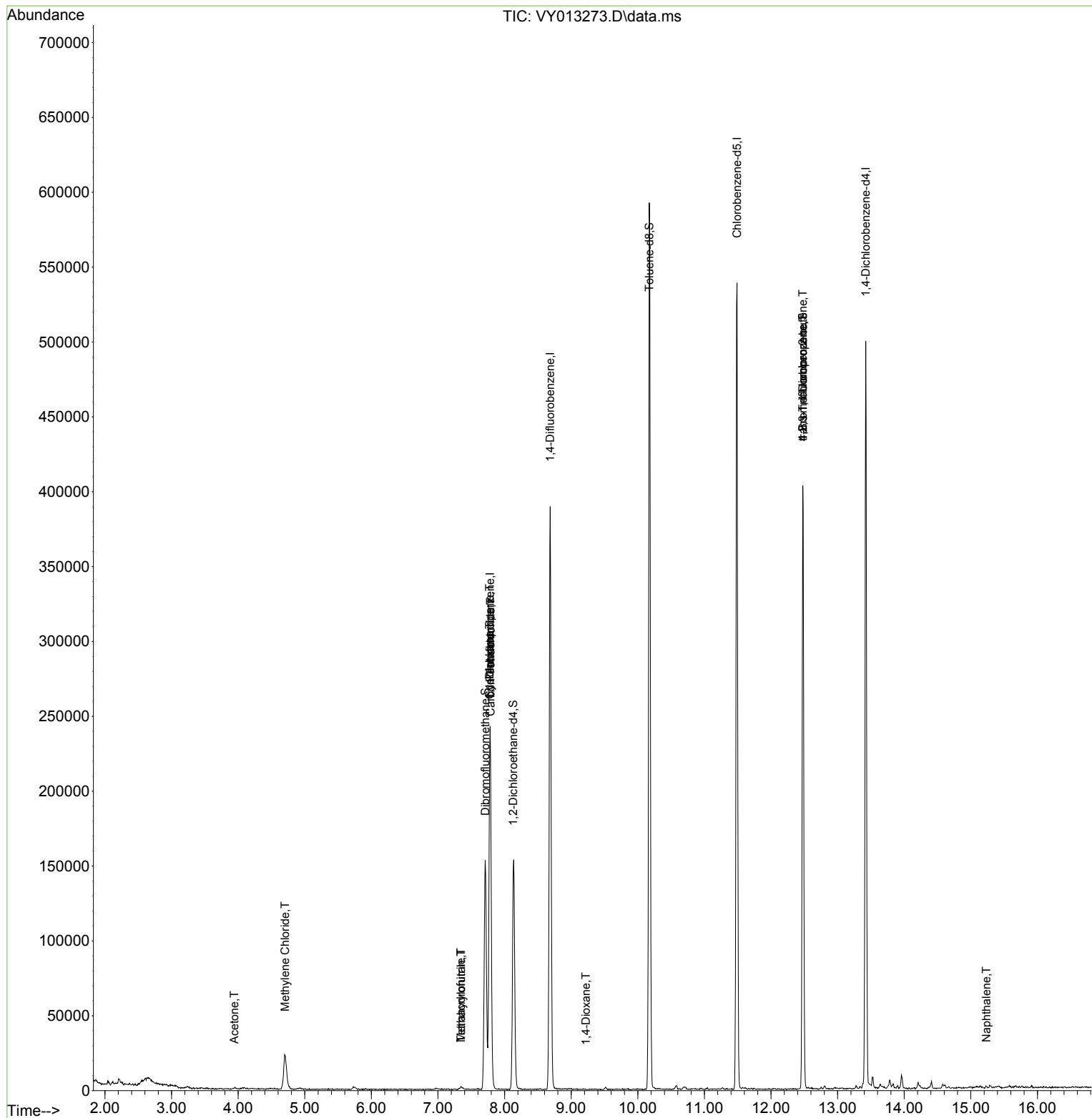
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 187655   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 313780   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117   | 283425   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 125261   | 50.000    | ug/l       | 0.00     |
|                               |           |       |          |           |            |          |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.130     | 65    | 122571   | 54.351    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 108.700% |          |
| 35) Dibromofluoromethane      | 7.709     | 113   | 105793   | 52.079    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 104.160% |          |
| 50) Toluene-d8                | 10.172    | 98    | 379725   | 50.220    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 100.440% |          |
| 62) 4-Bromofluorobenzene      | 12.477    | 95    | 113110   | 46.041    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 92.080%  |          |
|                               |           |       |          |           |            |          |
| Target Compounds              |           |       |          |           |            | Qvalue   |
| 11) Tert butyl alcohol        | 4.984     | 59    | 89       | Below Cal | #          | 1        |
| 16) Acetone                   | 3.942     | 43    | 1238     | 1.597     | ug/l #     | 77       |
| 20) Methylene Chloride        | 4.704     | 84    | 15662    | 3.690     | ug/l       | 87       |
| 29) Tetrahydrofuran           | 7.344     | 42    | 969      | 1.607     | ug/l #     | 45       |
| 31) Cyclohexane               | 7.776     | 56    | 5008     | 1.469     | ug/l #     | 12       |
| 36) 1,1-Dichloropropene       | 7.776     | 75    | 14520    | 4.718     | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 18838    | 5.536     | ug/l #     | 18       |
| 41) Methacrylonitrile         | 7.344     | 41    | 1031     | 1.002     | ug/l #     | 100      |
| 49) 1,4-Dioxane               | 9.221     | 88    | 20       | 1.061     | ug/l #     | 23       |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 62704    | 40.173    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 62704    | 83.379    | ug/l #     | 13       |
| 95) Naphthalene               | 15.232    | 128   | 713      | 3.326     | ug/l #     | 77       |
| -----                         |           |       |          |           |            |          |

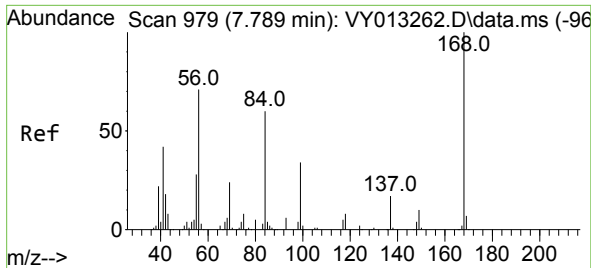
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 13 05:55:16 2023  
Response via : Initial Calibration

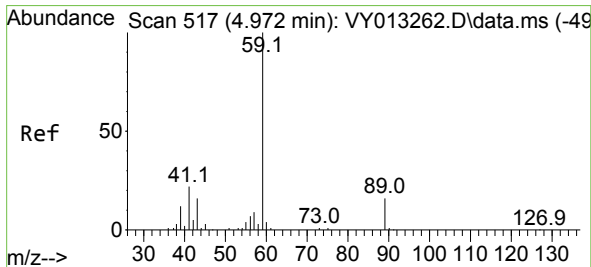
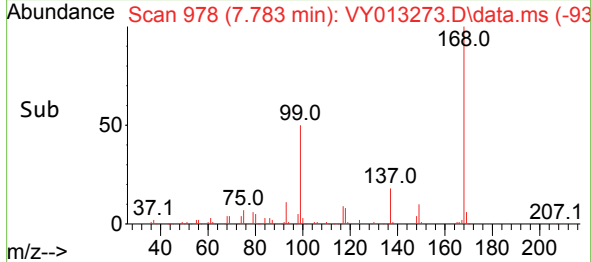
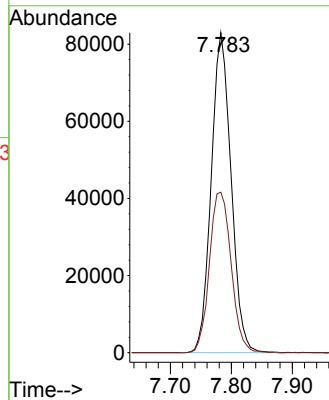
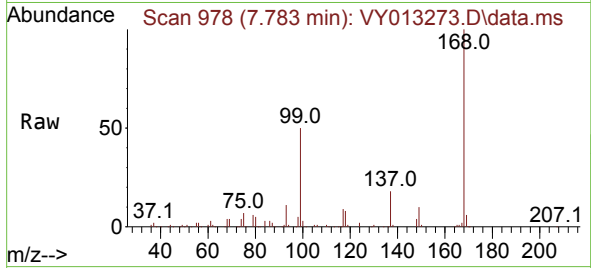




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

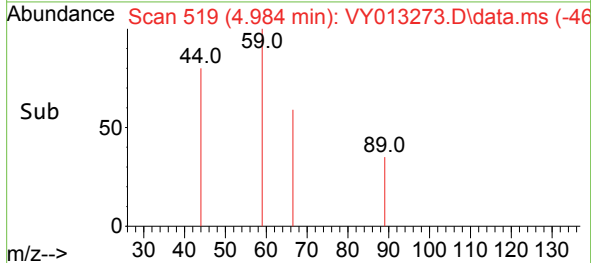
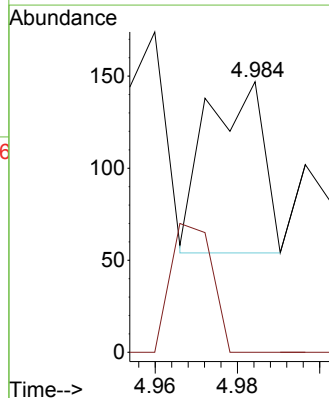
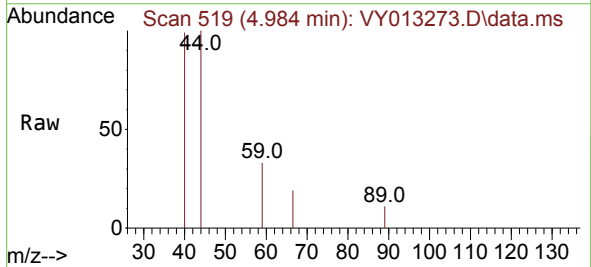
Instrument :  
MSVOA\_Y  
ClientSampleId :  
IDW-SO-G2-041123

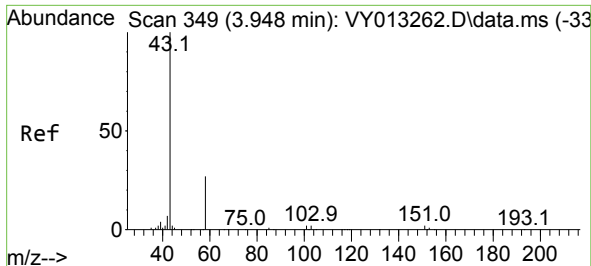
Tgt Ion:168 Resp: 187655  
Ion Ratio Lower Upper  
168 100  
99 50.1 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.984 min Scan# 519  
Delta R.T. 0.012 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Tgt Ion: 59 Resp: 89  
Ion Ratio Lower Upper  
59 100  
57 55.1 7.7 11.5#





#16

Acetone

Concen: 1.597 ug/l

RT: 3.942 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY013273.D

Acq: 12 Apr 2023 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

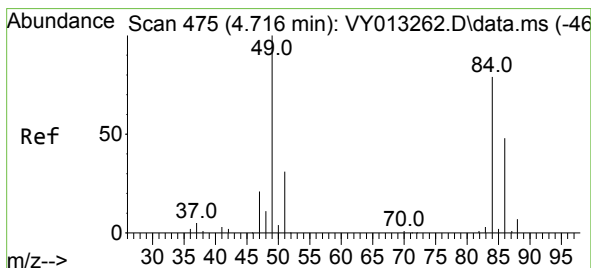
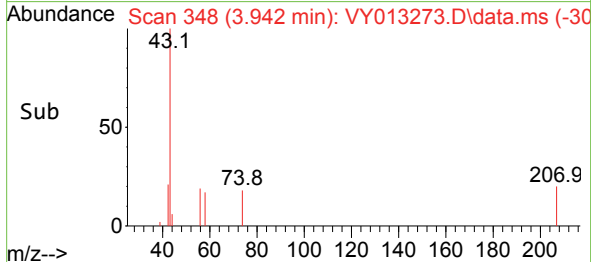
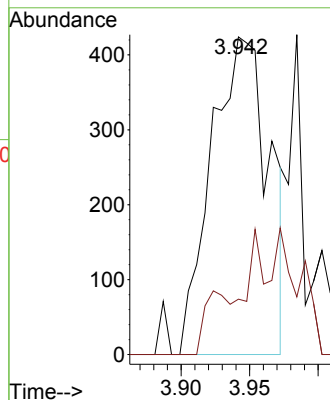
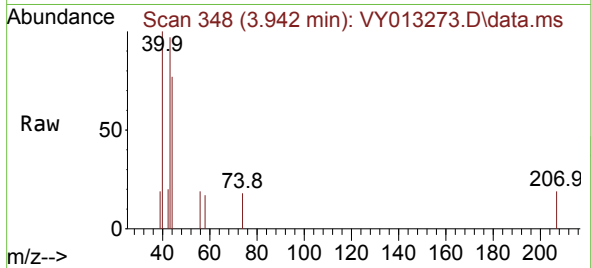
IDW-SO-G2-041123

Tgt Ion: 43 Resp: 1238

Ion Ratio Lower Upper

43 100

58 17.5 24.2 36.2#



#20

Methylene Chloride

Concen: 3.690 ug/l

RT: 4.704 min Scan# 473

Delta R.T. -0.012 min

Lab File: VY013273.D

Acq: 12 Apr 2023 17:45

Tgt Ion: 84 Resp: 15662

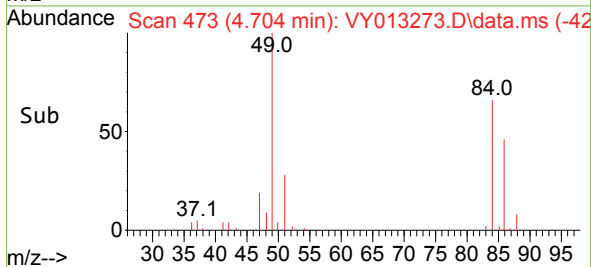
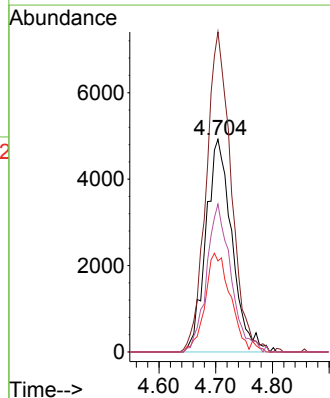
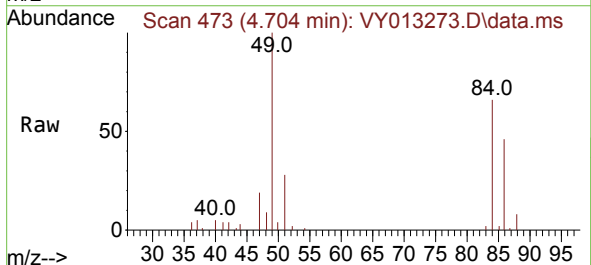
Ion Ratio Lower Upper

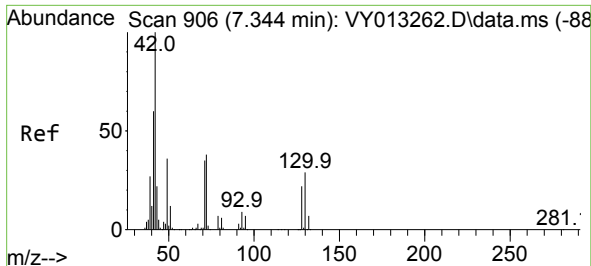
84 100

49 150.5 102.6 154.0

51 42.8 31.9 47.9

86 69.6 51.0 76.6





#29

Tetrahydrofuran

Concen: 1.607 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.000 min

Lab File: VY013273.D

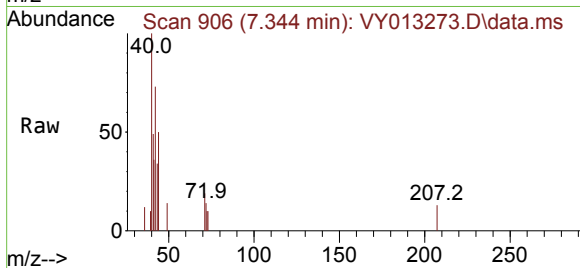
Acq: 12 Apr 2023 17:45

Instrument :

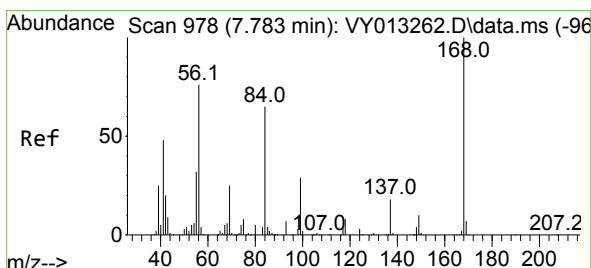
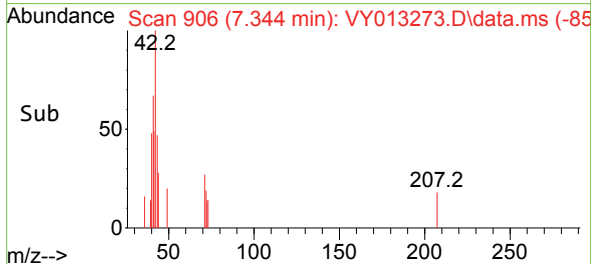
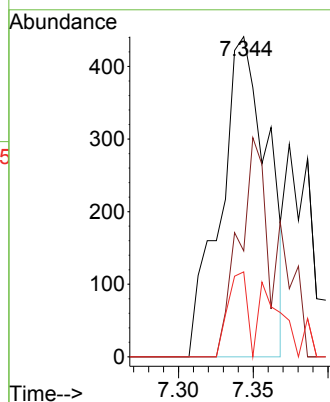
MSVOA\_Y

ClientSampleId :

IDW-SO-G2-041123



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 969   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 0.0   | 32.3  | 48.5# |
| 71        | 10.8  | 30.3  | 45.5# |



#31

Cyclohexane

Concen: 1.469 ug/l

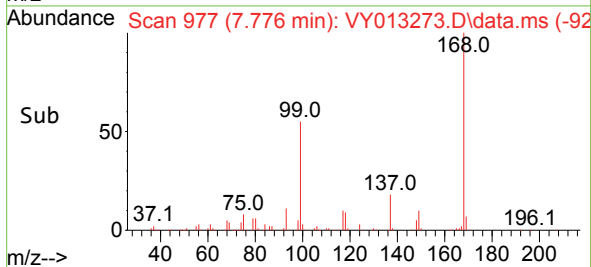
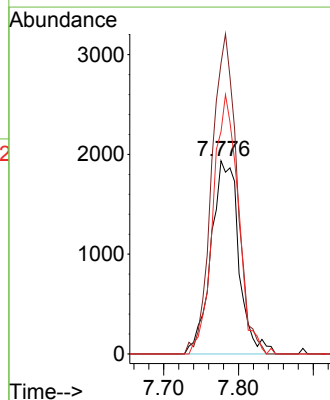
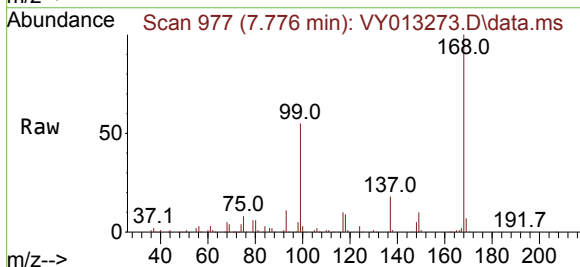
RT: 7.776 min Scan# 977

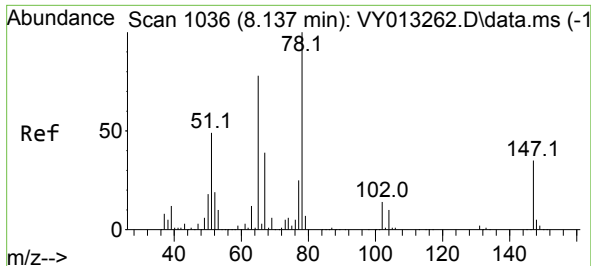
Delta R.T. -0.006 min

Lab File: VY013273.D

Acq: 12 Apr 2023 17:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 56    | Resp: | 5008  |
| Ion Ratio | Lower | Upper |       |
| 56        | 100   |       |       |
| 69        | 150.4 | 25.7  | 38.5# |
| 84        | 115.0 | 64.3  | 96.5# |

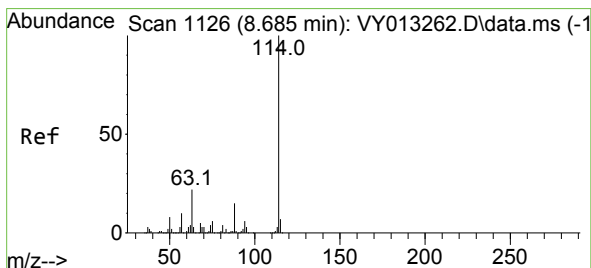
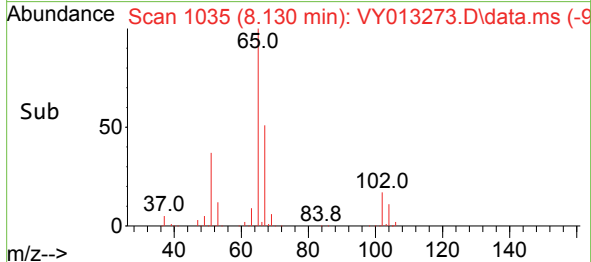
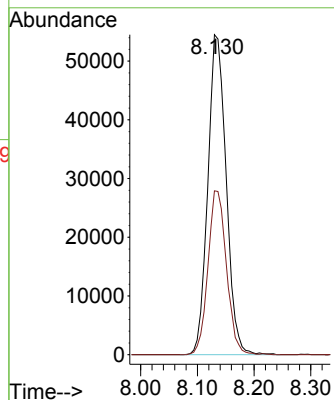
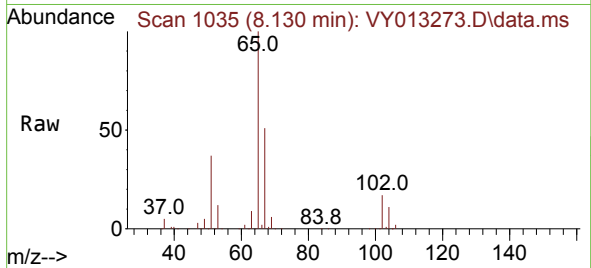




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.351 ug/l  
 RT: 8.130 min Scan# 1036  
 Delta R.T. -0.006 min  
 Lab File: VY013273.D  
 Acq: 12 Apr 2023 17:45

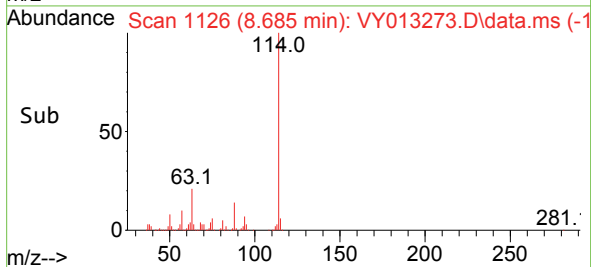
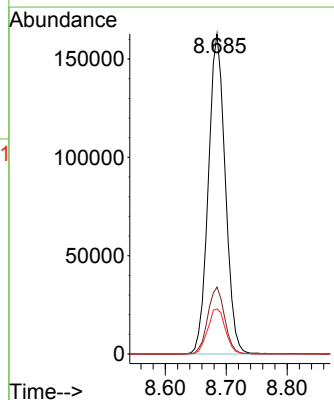
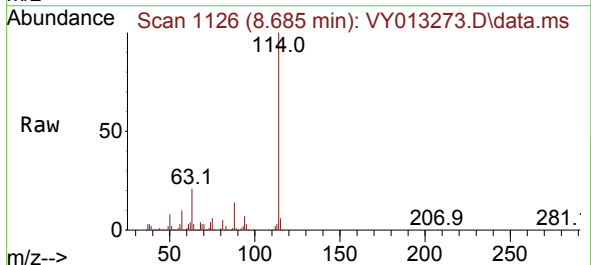
Instrument :  
 MSVOA\_Y  
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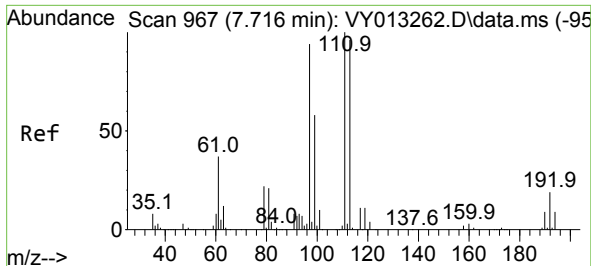
Tgt Ion: 65 Resp: 122571  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 104.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.685 min Scan# 1126  
 Delta R.T. -0.000 min  
 Lab File: VY013273.D  
 Acq: 12 Apr 2023 17:45

Tgt Ion: 114 Resp: 313780  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 37.4  
 88 14.1 0.0 28.6

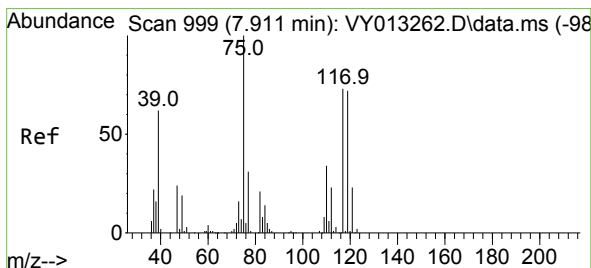
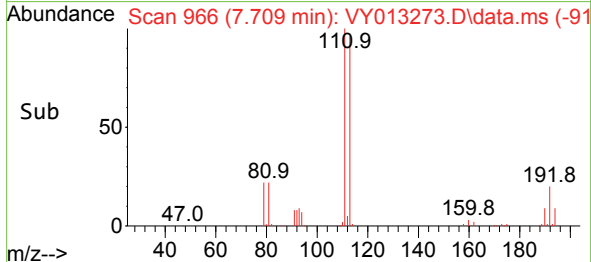
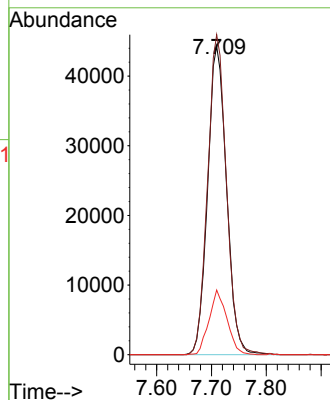
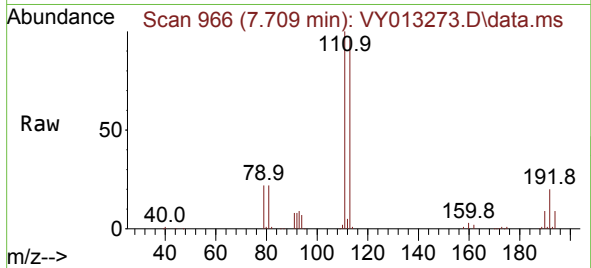




#35  
Dibromofluoromethane  
Concen: 52.079 ug/l  
RT: 7.709 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

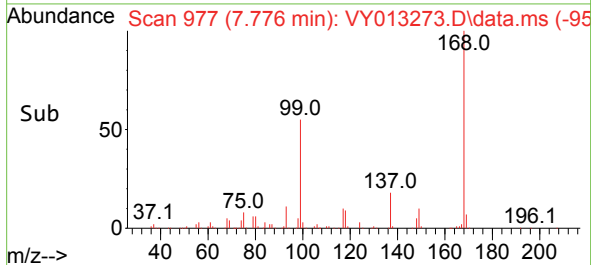
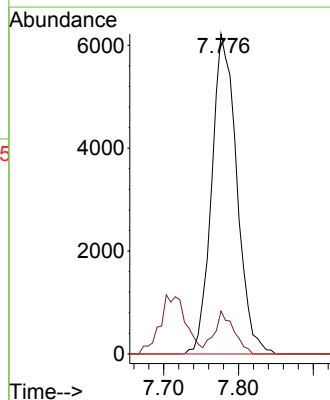
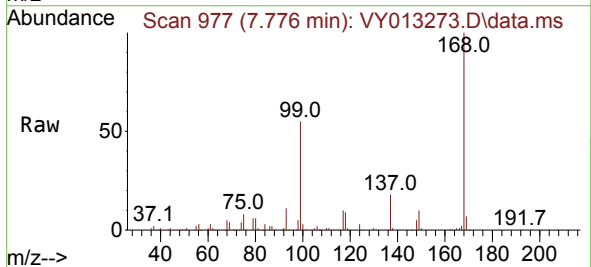
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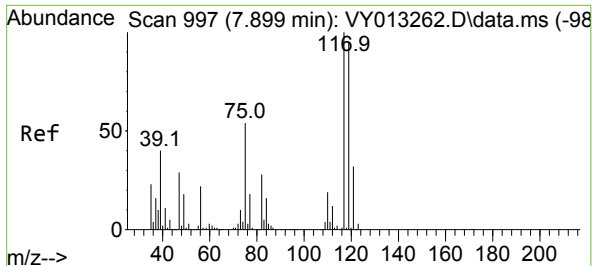
Tgt Ion:113 Resp: 105793  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.2 123.2  
192 20.0 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.718 ug/l  
RT: 7.776 min Scan# 977  
Delta R.T. -0.135 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

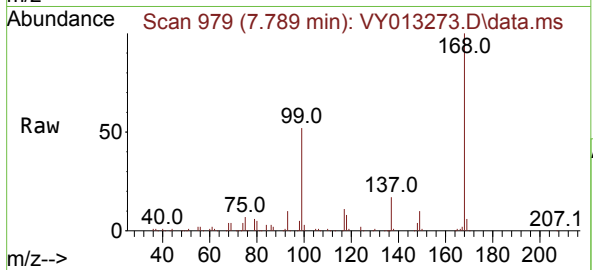
Tgt Ion: 75 Resp: 14520  
Ion Ratio Lower Upper  
75 100  
110 10.4 17.8 53.3#  
77 0.0 25.0 37.4#



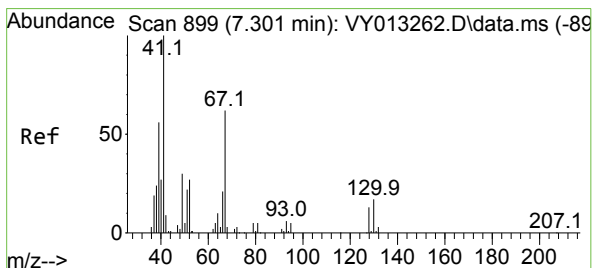
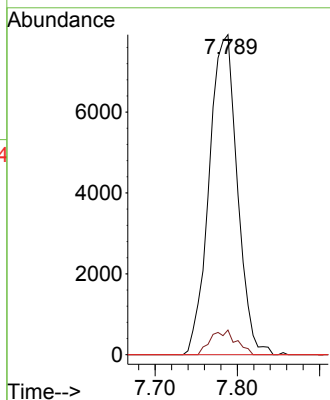
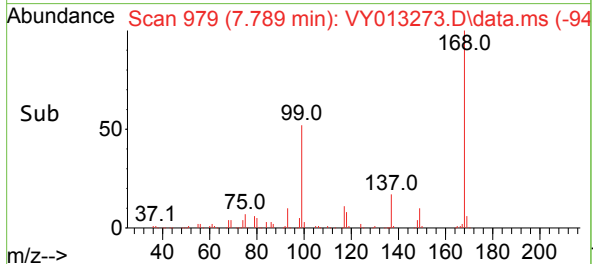


#38  
Carbon Tetrachloride  
Concen: 5.536 ug/l  
RT: 7.789 min Scan# 911  
Delta R.T. -0.110 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Instrument :  
MSVOA\_Y  
ClientSampleId :  
IDW-SO-G2-041123

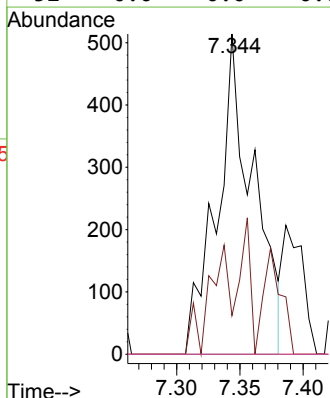
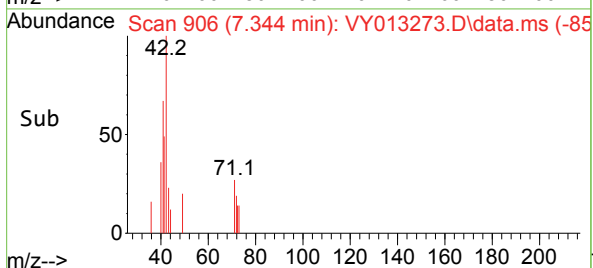
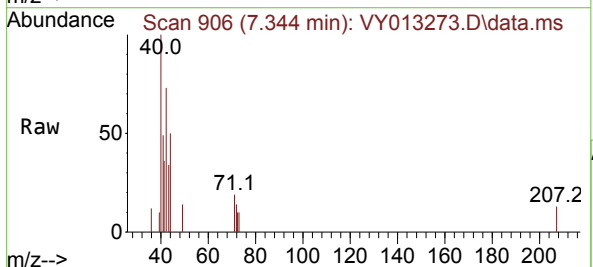


Tgt Ion: 117 Resp: 18838  
Ion Ratio Lower Upper  
117 100  
119 7.7 77.2 115.8#  
121 0.0 24.7 37.1#

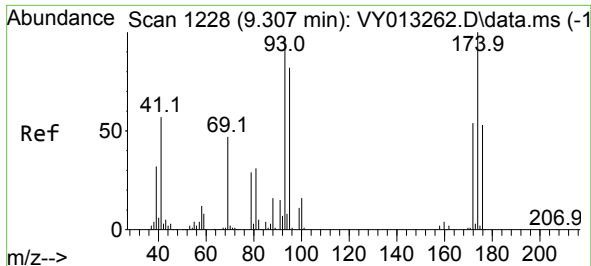


#41  
Methacrylonitrile  
Concen: 1.002 ug/l  
RT: 7.344 min Scan# 906  
Delta R.T. 0.042 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Tgt Ion: 41 Resp: 1031  
Ion Ratio Lower Upper  
41 100  
39 19.7 0.0 0.0#  
67 0.0 0.0 0.0  
52 0.0 0.0 0.0







#49

1,4-Dioxane

Concen: 1.061 ug/l

RT: 9.221 min Scan# 11

Delta R.T. -0.086 min

Lab File: VY013273.D

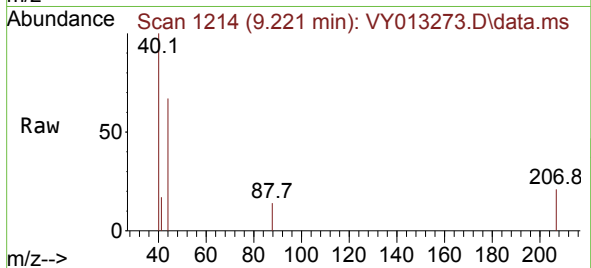
Acq: 12 Apr 2023 17:45

Instrument :

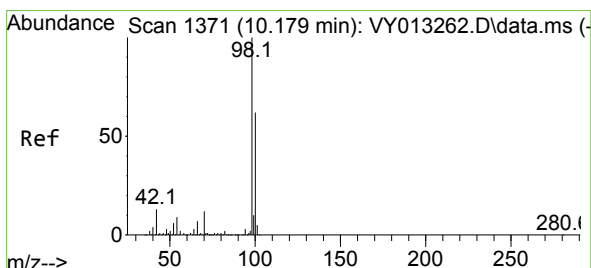
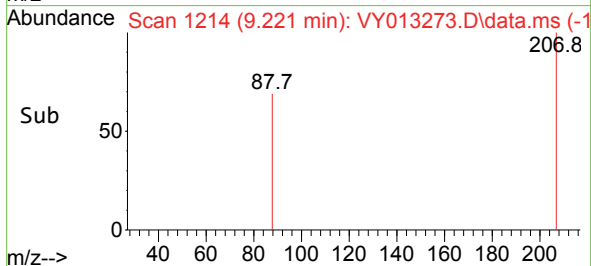
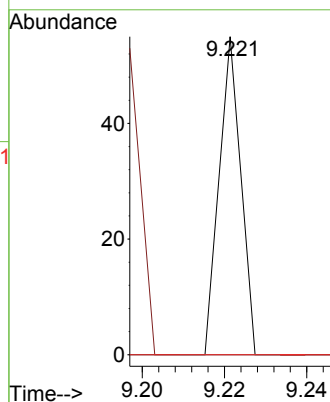
MSVOA\_Y

ClientSampleId :

IDW-SO-G2-041123



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 0.0   | 28.6  | 42.8# |
| 58       | 0.0   | 55.2  | 82.8# |



#50

Toluene-d8

Concen: 50.220 ug/l

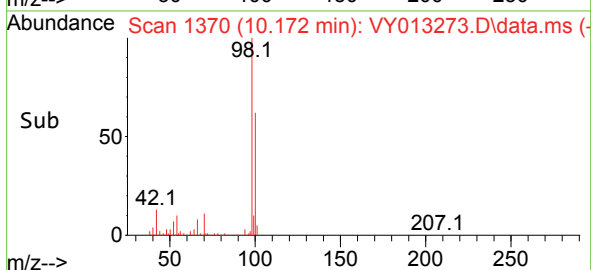
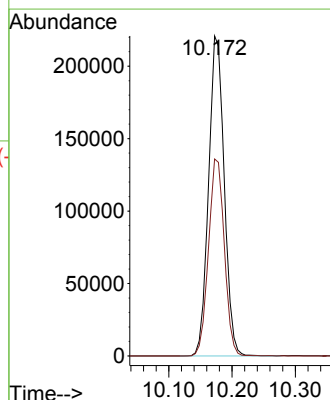
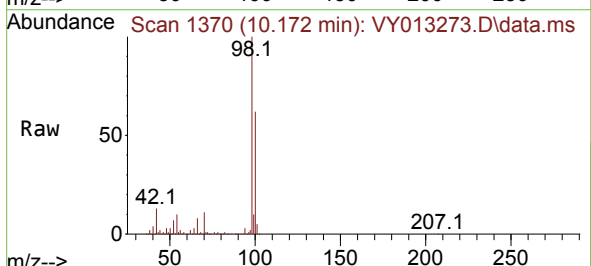
RT: 10.172 min Scan# 1370

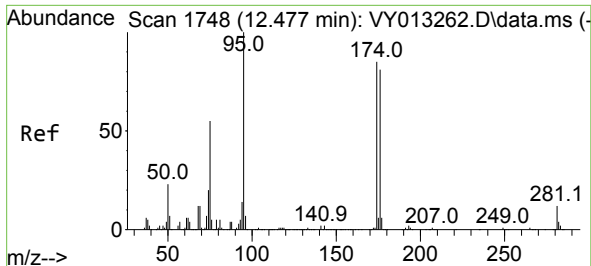
Delta R.T. -0.006 min

Lab File: VY013273.D

Acq: 12 Apr 2023 17:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 379725 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 62.4  | 50.9  | 76.3   |

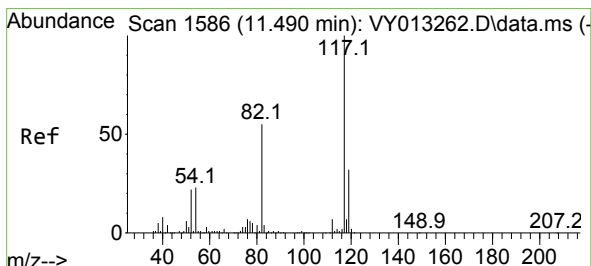
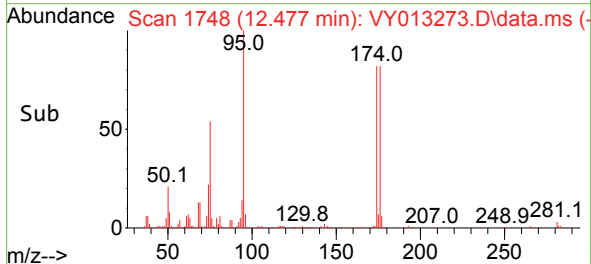
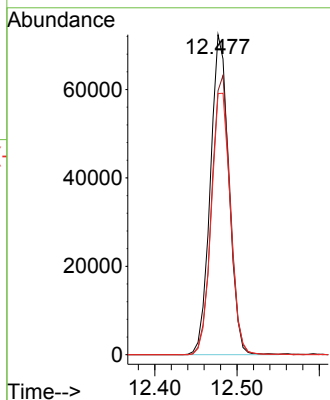
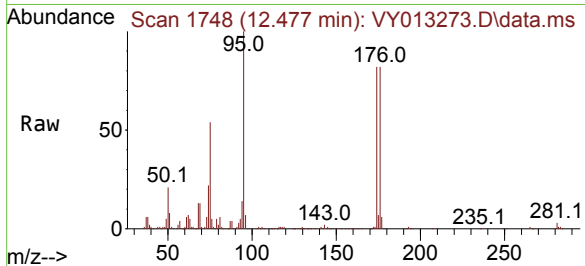




#62  
4-Bromofluorobenzene  
Concen: 46.041 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

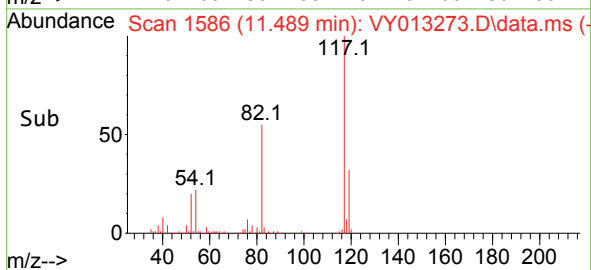
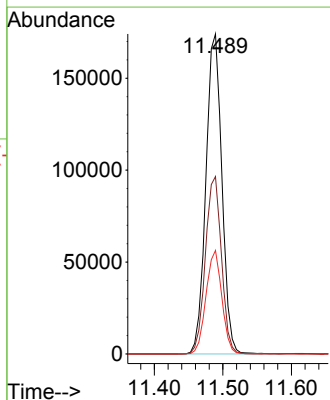
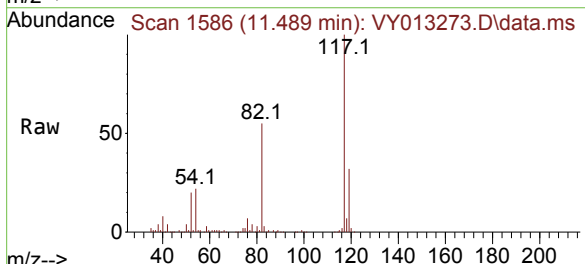
Instrument :  
MSVOA\_Y  
ClientSampleId :  
IDW-SO-G2-041123

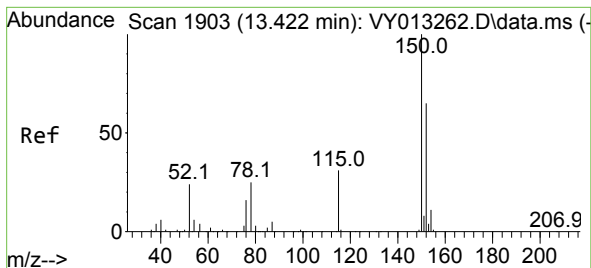
Tgt Ion: 95 Resp: 113110  
Ion Ratio Lower Upper  
95 100  
174 88.1 0.0 176.6  
176 84.4 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Tgt Ion: 117 Resp: 283425  
Ion Ratio Lower Upper  
117 100  
82 55.4 45.4 68.0  
119 32.4 25.6 38.4

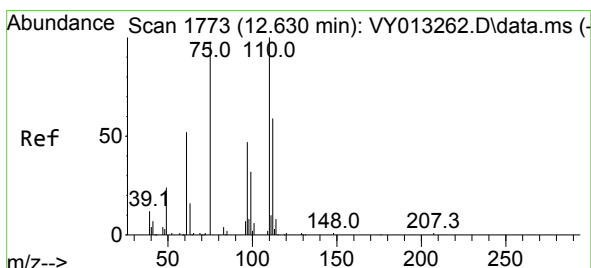
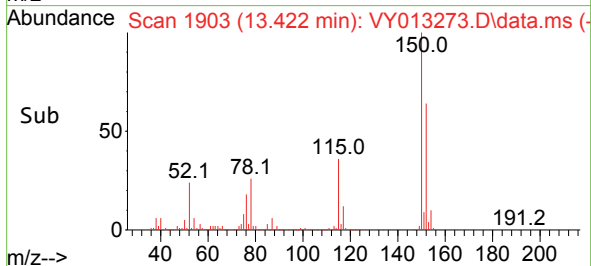
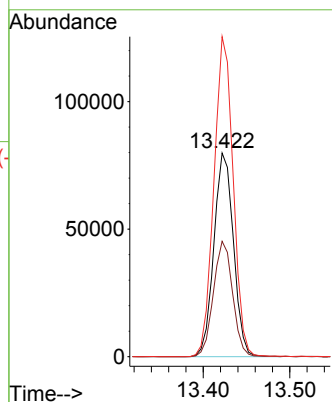
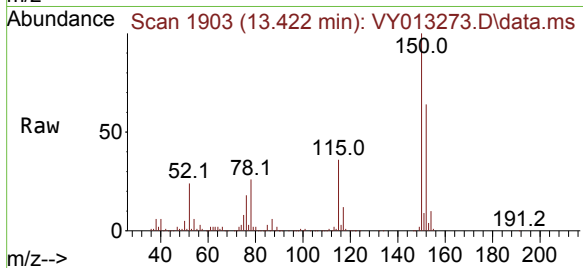




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. -0.000 min  
 Lab File: VY013273.D  
 Acq: 12 Apr 2023 17:45

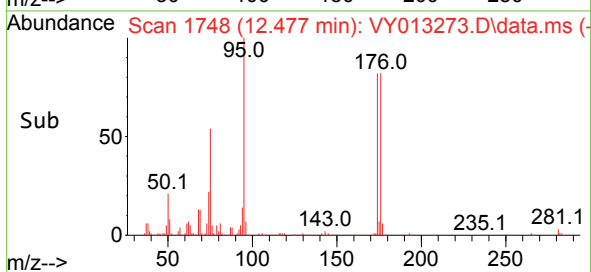
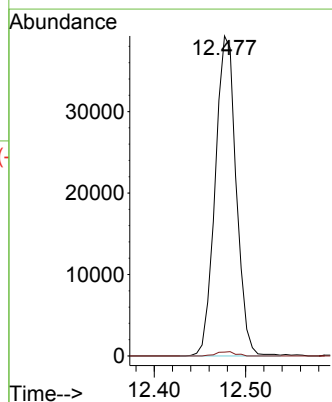
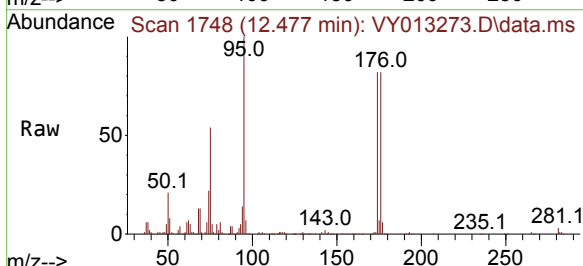
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 IDW-SO-G2-041123

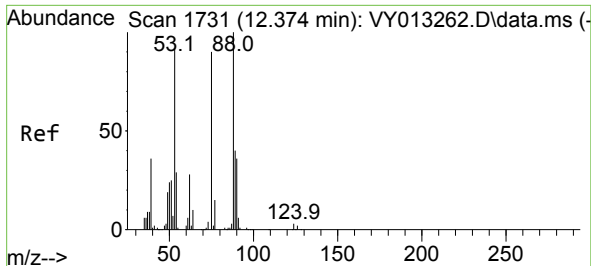
Tgt Ion:152 Resp: 125261  
 Ion Ratio Lower Upper  
 152 100  
 115 55.8 27.1 81.3  
 150 154.5 0.0 347.8



#76  
 1,2,3-Trichloropropane  
 Concen: 40.173 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.153 min  
 Lab File: VY013273.D  
 Acq: 12 Apr 2023 17:45

Tgt Ion: 75 Resp: 62704  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#

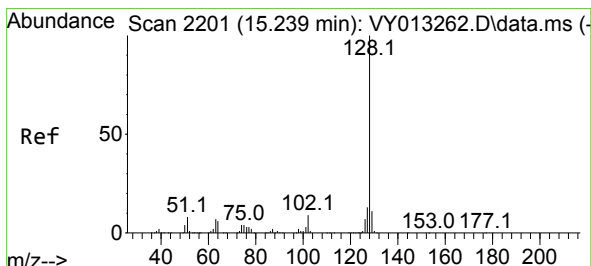
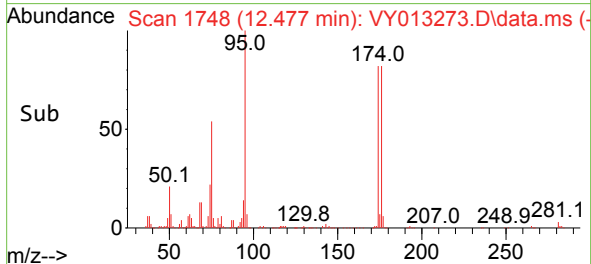
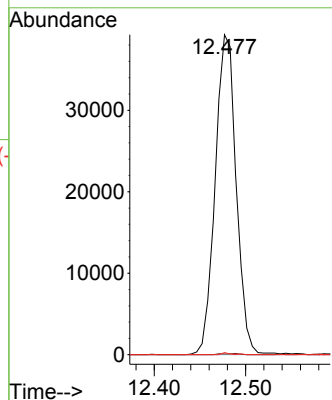
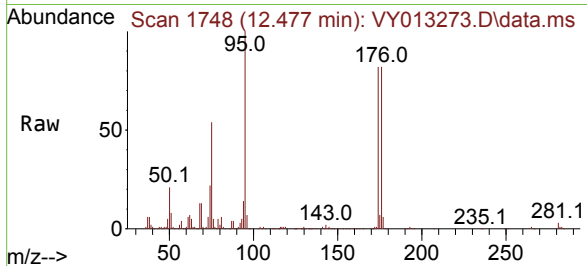




#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.379 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.103 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Instrument :  
MSVOA\_Y  
ClientSampleId :  
IDW-SO-G2-041123

Tgt Ion: 75 Resp: 62704  
Ion Ratio Lower Upper  
75 100  
53 0.3 73.4 110.0#  
89 0.2 36.6 55.0#



#95  
Naphthalene  
Concen: 3.326 ug/l  
RT: 15.232 min Scan# 2200  
Delta R.T. -0.007 min  
Lab File: VY013273.D  
Acq: 12 Apr 2023 17:45

Tgt Ion: 128 Resp: 713  
Ion Ratio Lower Upper  
128 100  
127 3.1 10.3 15.5#  
129 2.9 8.6 13.0#

