

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062023\  
 Data File : VY014314.D  
 Acq On : 21 Jun 2023 04:23  
 Operator : KP/MD  
 Sample : 03328-18  
 Misc : 4.95g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SW02-0-8-GRAB-7

Quant Time: Jun 21 05:10:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

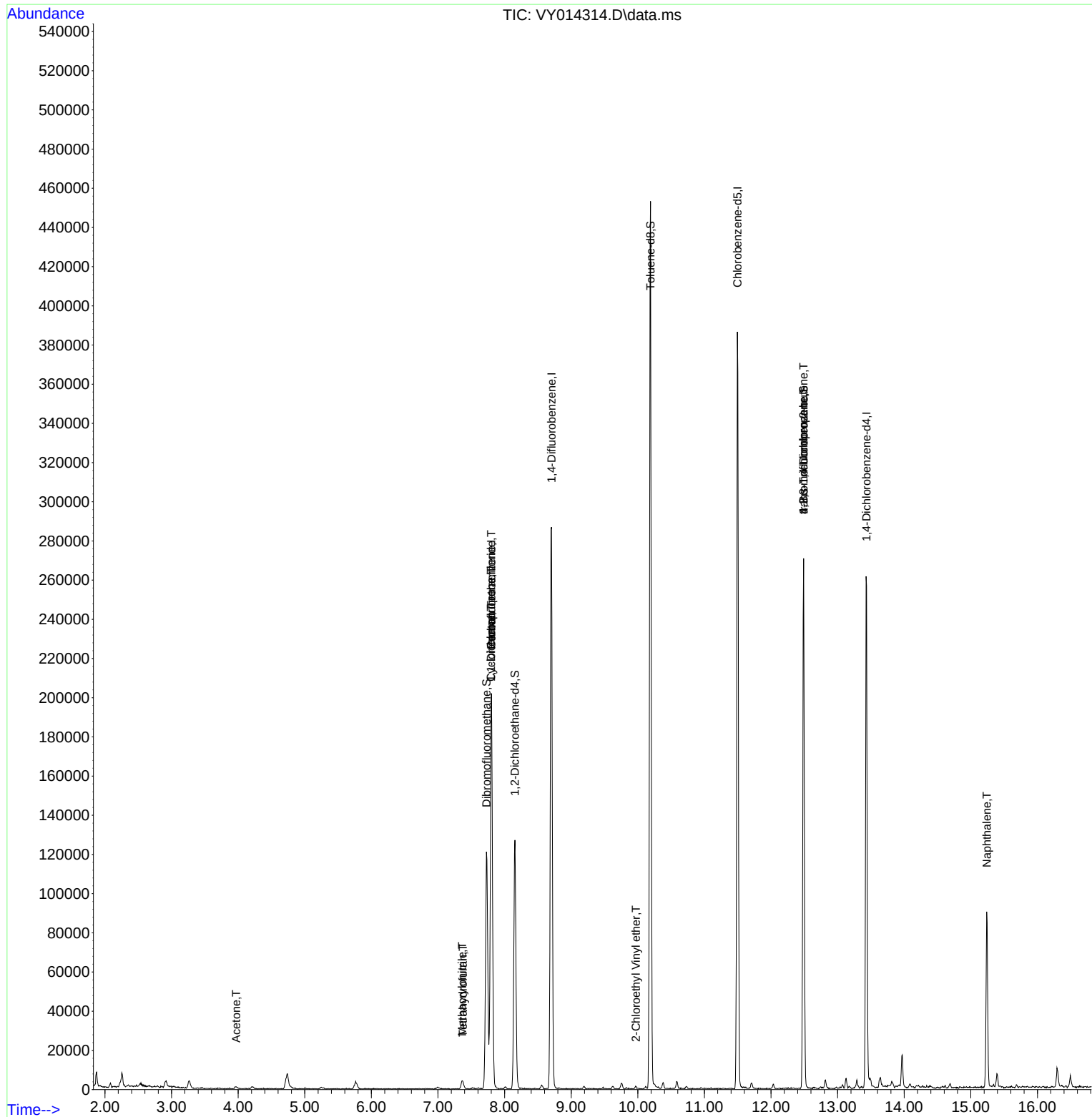
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.801  | 168   | 155277   | 50.000    | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 8.703  | 114   | 244543   | 50.000    | ug/l   | 0.01     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 209134   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 68951    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.155  | 65    | 105789   | 48.925    | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 97.860%  |
| 35) Dibromofluoromethane      | 7.728  | 113   | 81619    | 47.063    | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 94.120%  |
| 50) Toluene-d8                | 10.191 | 98    | 289329   | 44.625    | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 89.240%  |
| 62) 4-Bromofluorobenzene      | 12.489 | 95    | 74405    | 32.305    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 64.620%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.966  | 59    | 44       | Below Cal | #      | 89       |
| 13) Acrolein                  | 3.741  | 56    | 38       | Below Cal | #      | 14       |
| 16) Acetone                   | 3.973  | 43    | 2044     | 3.136     | ug/l   | 100      |
| 20) Methylene Chloride        | 4.729  | 84    | 5473     | Below Cal | #      | 82       |
| 29) Tetrahydrofuran           | 7.374  | 42    | 3211     | 6.312     | ug/l   | 97       |
| 31) Cyclohexane               | 7.795  | 56    | 3925     | 1.355     | ug/l   | # 32     |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 11700    | 4.327     | ug/l   | # 51     |
| 38) Carbon Tetrachloride      | 7.801  | 117   | 15276    | 4.896     | ug/l   | # 16     |
| 41) Methacrylonitrile         | 7.362  | 41    | 2108     | 2.214     | ug/l   | # 43     |
| 58) 2-Chloroethyl Vinyl ether | 9.972  | 63    | 20       | 28.637    | ug/l   | # 48     |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 40722    | 45.016    | ug/l   | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75    | 40722    | 97.306    | ug/l   | # 10     |
| 95) Naphthalene               | 15.239 | 128   | 75461    | 24.755    | ug/l   | 99       |
| -----                         |        |       |          |           |        |          |

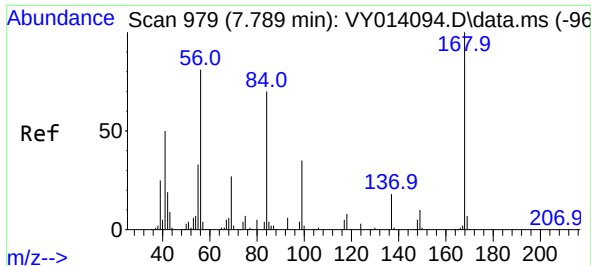
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

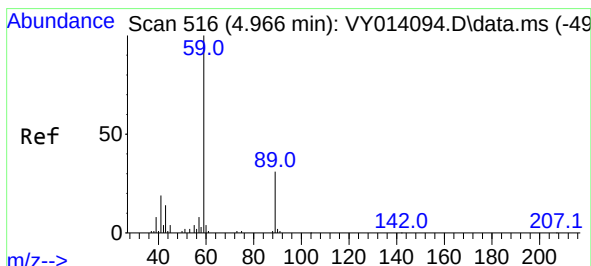
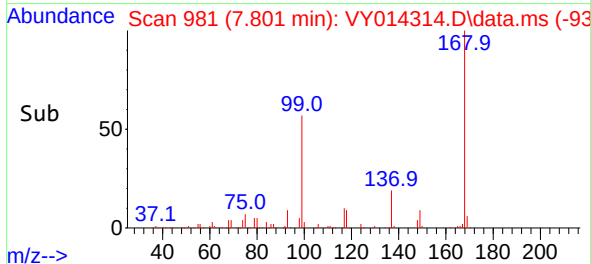
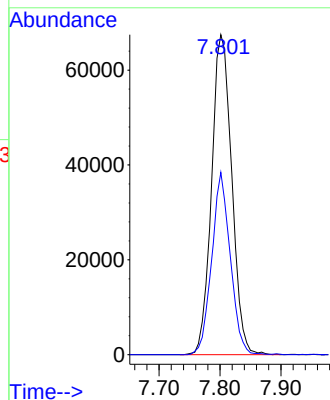
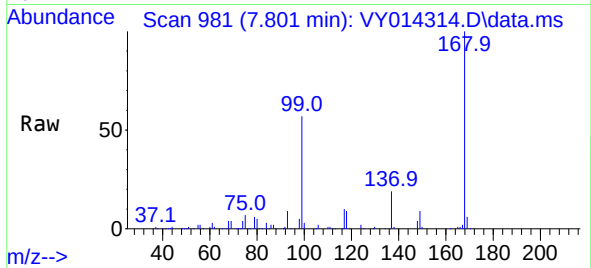




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

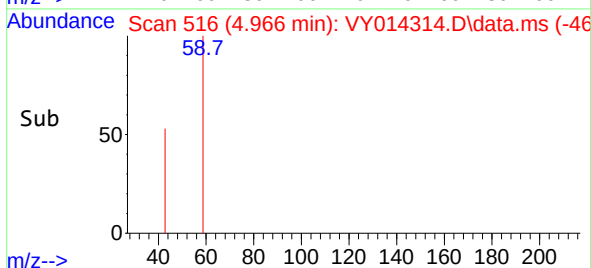
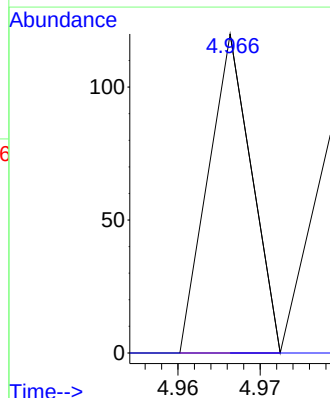
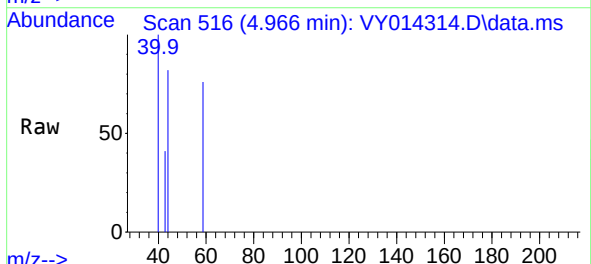
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW02-0-8-GRAB-7

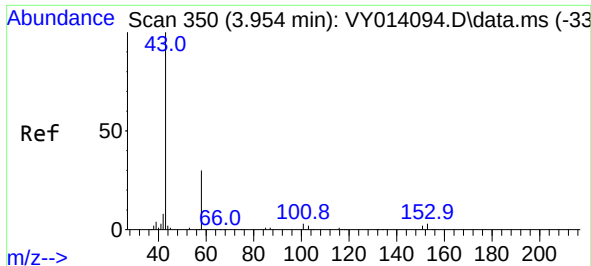
Tgt Ion:168 Resp: 155277  
Ion Ratio Lower Upper  
168 100  
99 56.9 43.4 65.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.966 min Scan# 516  
Delta R.T. 0.000 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Tgt Ion: 59 Resp: 44  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#

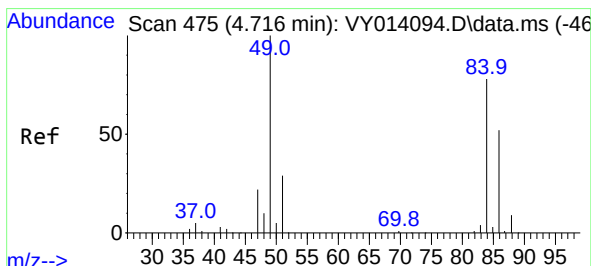
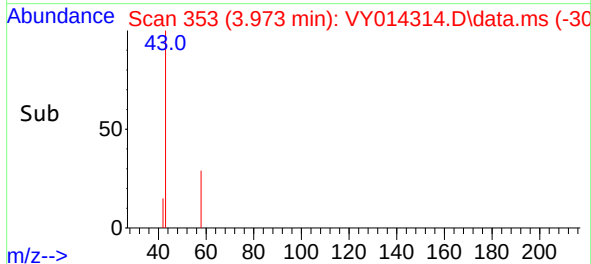
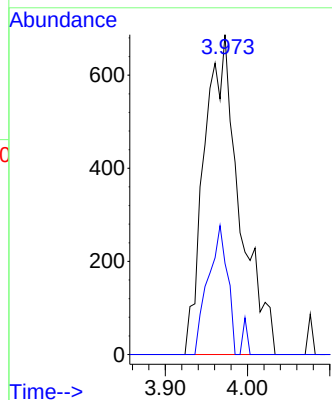
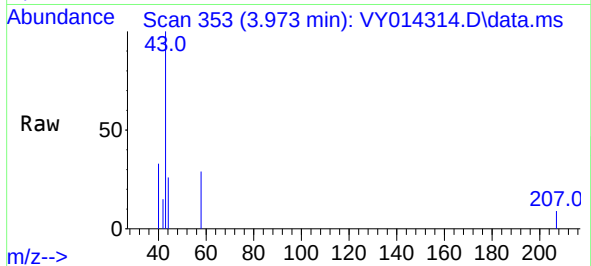




#16  
Acetone  
Concen: 3.136 ug/l  
RT: 3.973 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

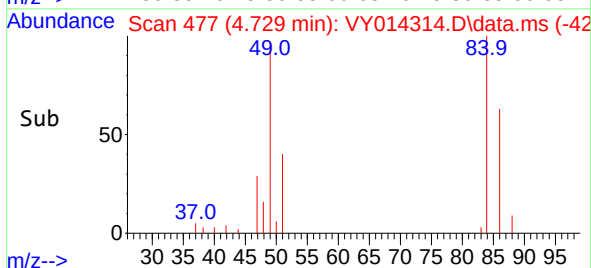
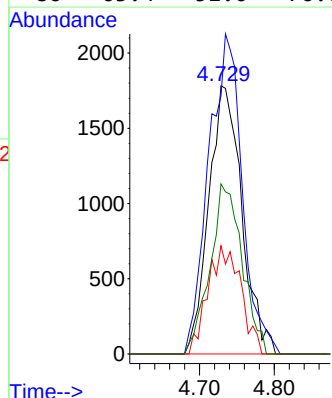
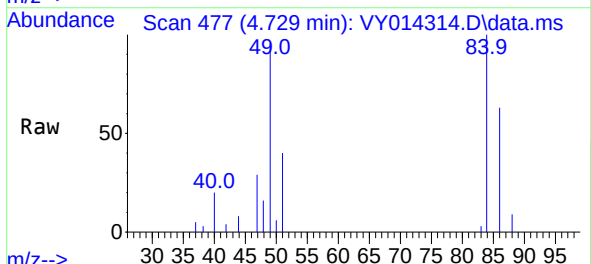
Instrument :  
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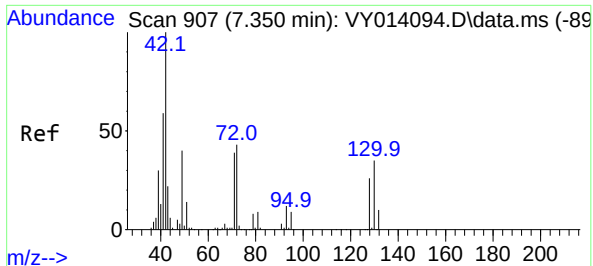
Tgt Ion: 43 Resp: 2044  
Ion Ratio Lower Upper  
43 100  
58 28.5 22.7 34.1



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.729 min Scan# 477  
Delta R.T. 0.013 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Tgt Ion: 84 Resp: 5473  
Ion Ratio Lower Upper  
84 100  
49 96.4 106.9 160.3#  
51 40.3 33.2 49.8  
86 63.4 51.0 76.6





#29

Tetrahydrofuran

Concen: 6.312 ug/l

RT: 7.374 min Scan# 911

Delta R.T. 0.024 min

Lab File: VY014314.D

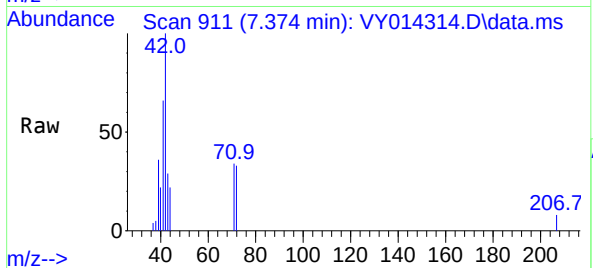
Acq: 21 Jun 2023 04:23

Instrument :

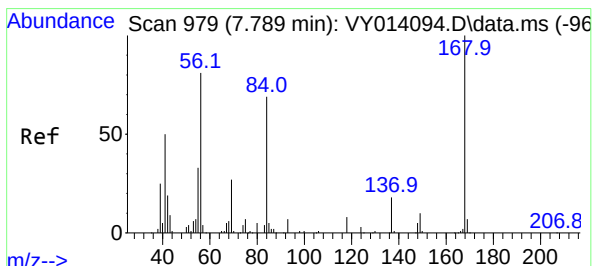
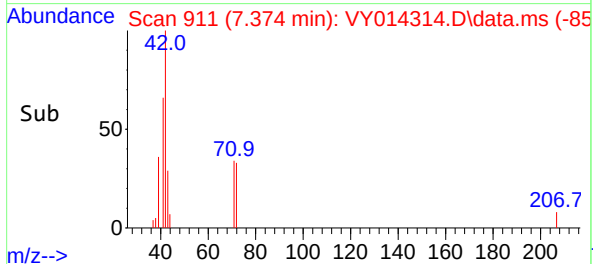
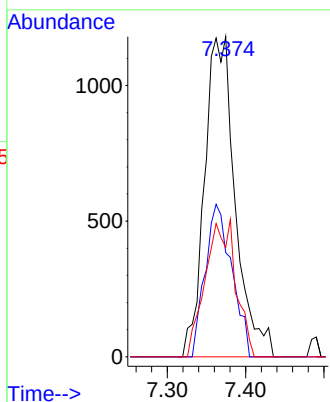
MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SW02-0-8-GRAB-7



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 3211  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 41.1  | 32.8  | 49.2  |
| 71       | 42.0  | 31.0  | 46.4  |



#31

Cyclohexane

Concen: 1.355 ug/l

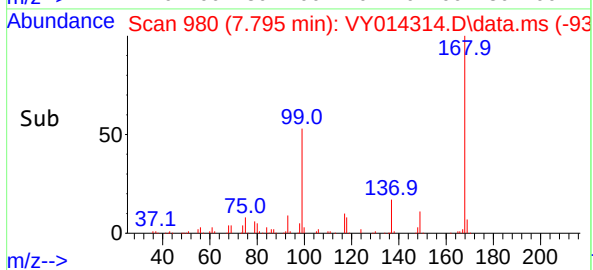
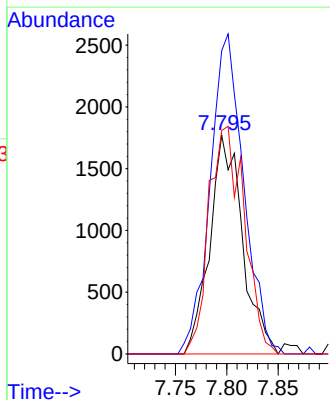
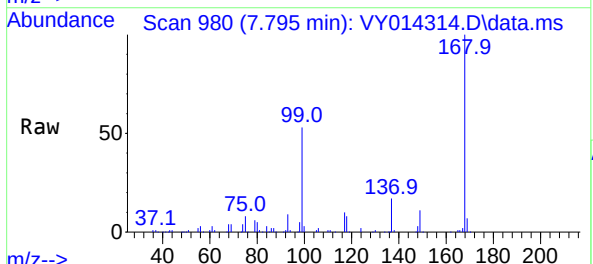
RT: 7.795 min Scan# 980

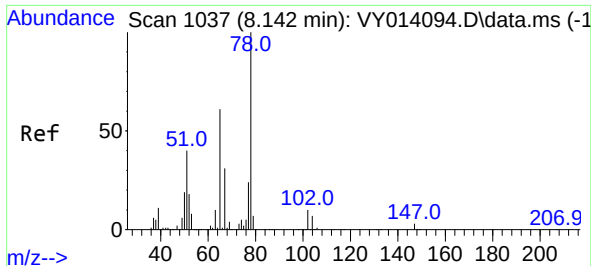
Delta R.T. 0.006 min

Lab File: VY014314.D

Acq: 21 Jun 2023 04:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 3925  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 138.7 | 27.8  | 41.6# |
| 84       | 102.2 | 66.4  | 99.6# |

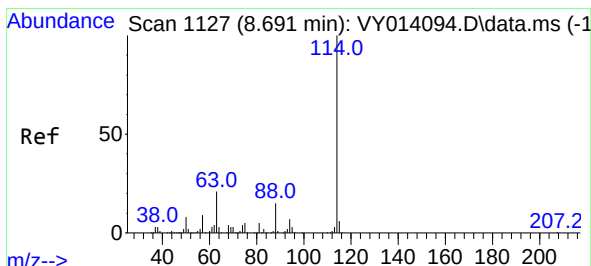
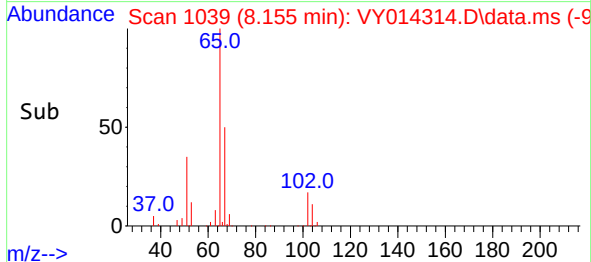
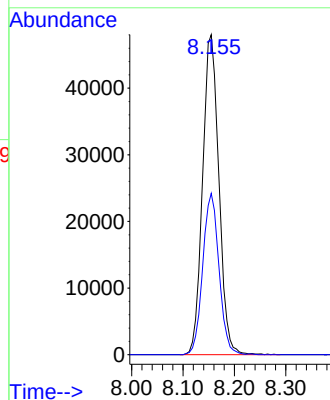
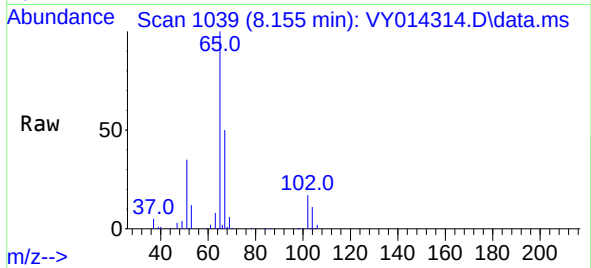




#33  
1,2-Dichloroethane-d4  
Concen: 48.925 ug/l  
RT: 8.155 min Scan# 1037  
Delta R.T. 0.013 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

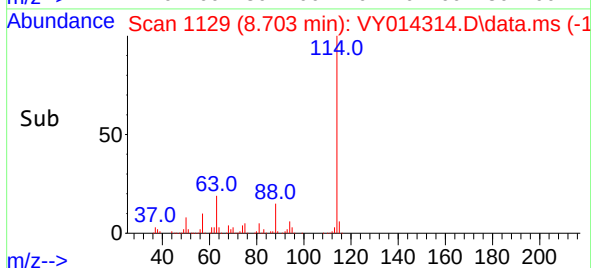
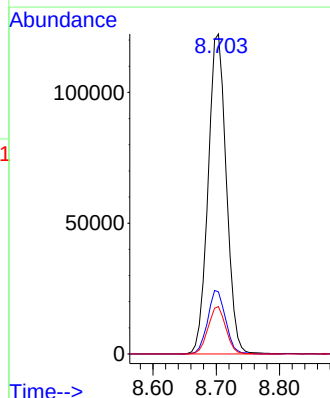
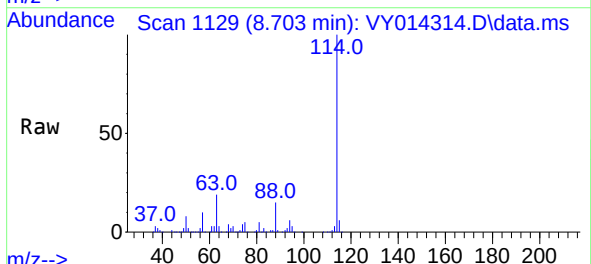
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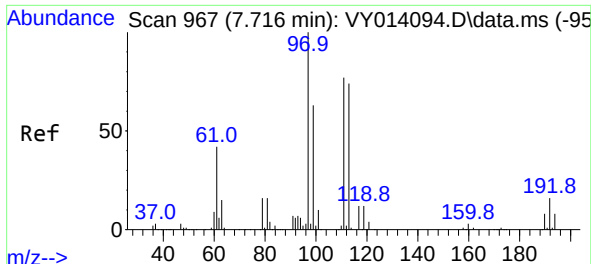
Tgt Ion: 65 Resp: 105789  
Ion Ratio Lower Upper  
65 100  
67 50.2 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.703 min Scan# 1129  
Delta R.T. 0.012 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

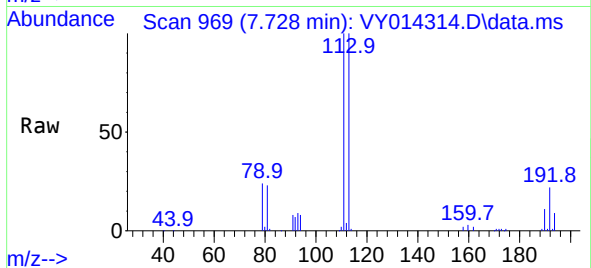
Tgt Ion:114 Resp: 244543  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 42.4  
88 14.8 0.0 30.6



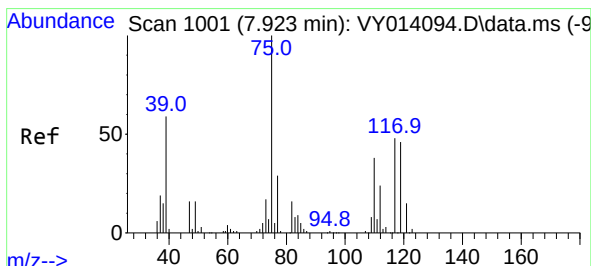
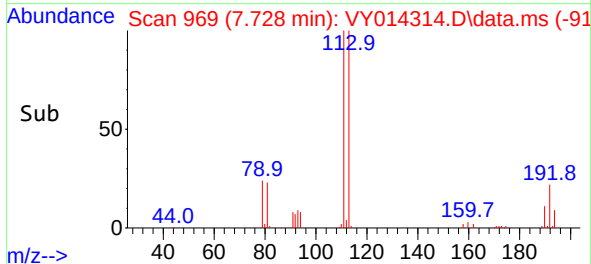
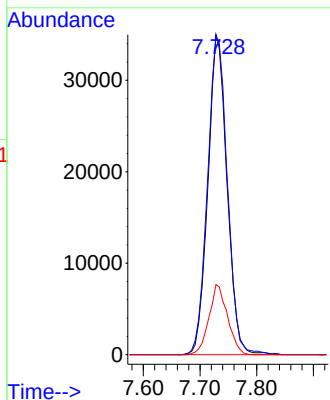


#35  
Dibromofluoromethane  
Concen: 47.063 ug/l  
RT: 7.728 min Scan# 90  
Delta R.T. 0.012 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW02-0-8-GRAB-7

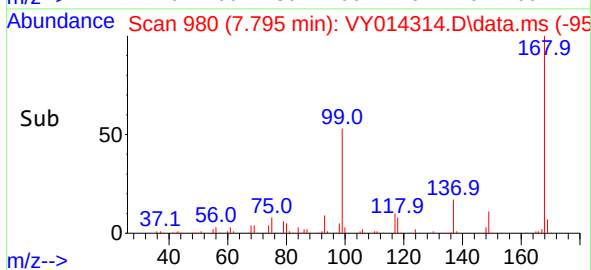
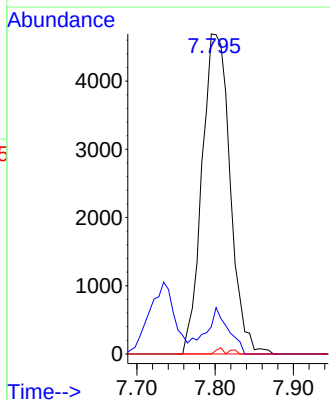
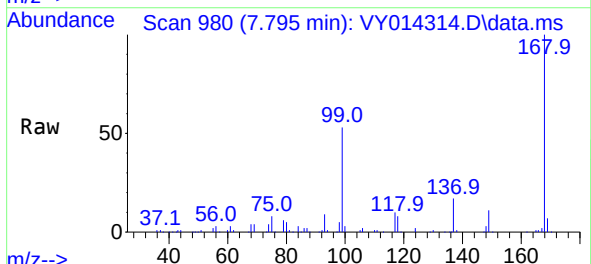


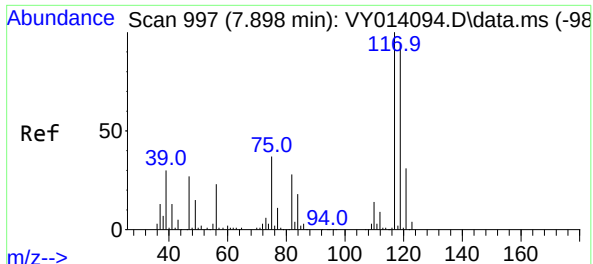
Tgt Ion:113 Resp: 81619  
Ion Ratio Lower Upper  
113 100  
111 103.9 81.3 121.9  
192 21.4 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.327 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

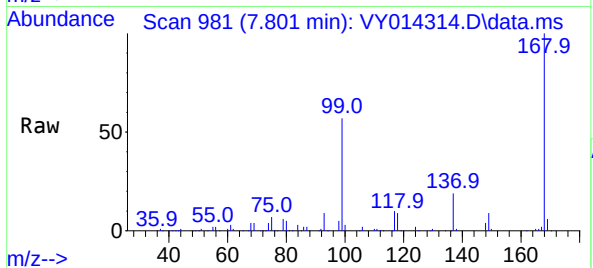
Tgt Ion: 75 Resp: 11700  
Ion Ratio Lower Upper  
75 100  
110 10.4 17.8 53.5#  
77 0.5 24.4 36.6#



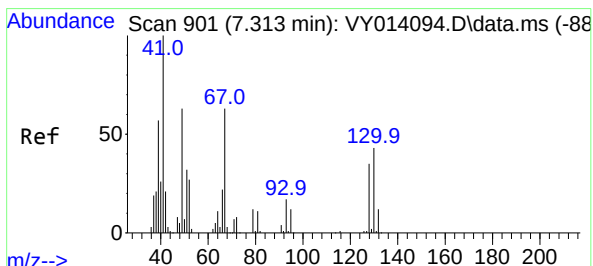
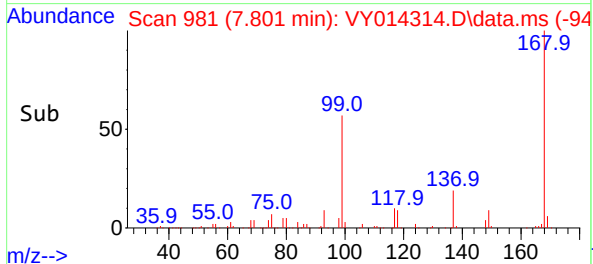
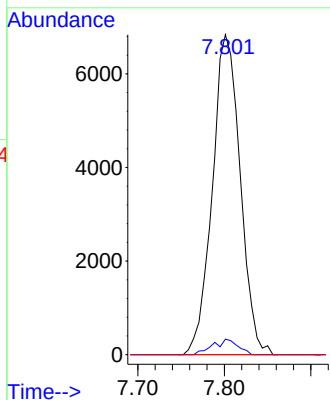


#38  
Carbon Tetrachloride  
Concen: 4.896 ug/l  
RT: 7.801 min Scan# 909  
Delta R.T. -0.097 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Instrument : MSVOA\_Y  
ClientSampleId : TOTAL-VOC-SW02-0-8-GRAB-7

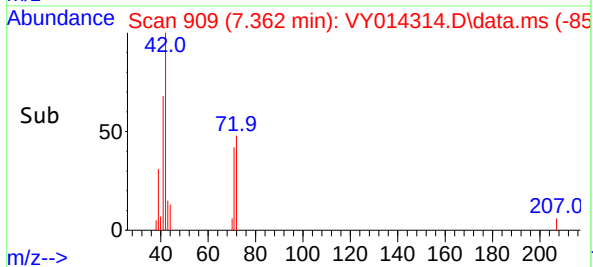
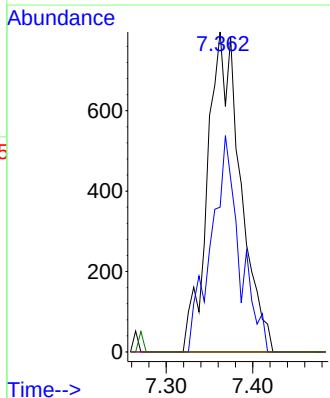
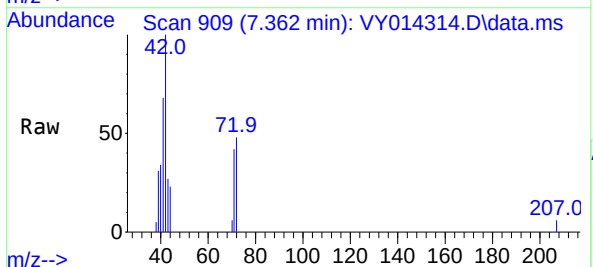


Tgt Ion:117 Resp: 15276  
Ion Ratio Lower Upper  
117 100  
119 4.9 76.4 114.6#  
121 0.0 25.8 38.6#

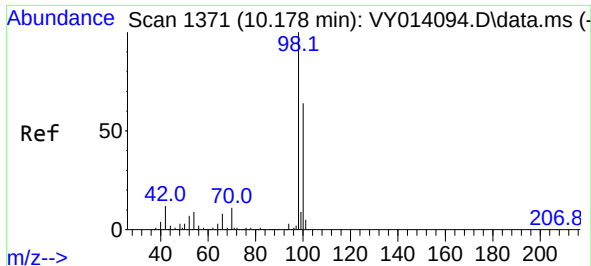


#41  
Methacrylonitrile  
Concen: 2.214 ug/l  
RT: 7.362 min Scan# 909  
Delta R.T. 0.049 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Tgt Ion: 41 Resp: 2108  
Ion Ratio Lower Upper  
41 100  
39 58.3 52.1 78.1  
67 0.0 66.2 99.2#  
52 0.0 29.9 44.9#



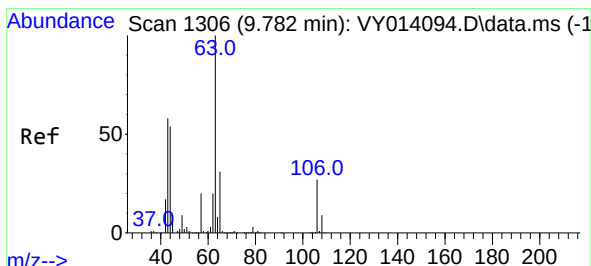
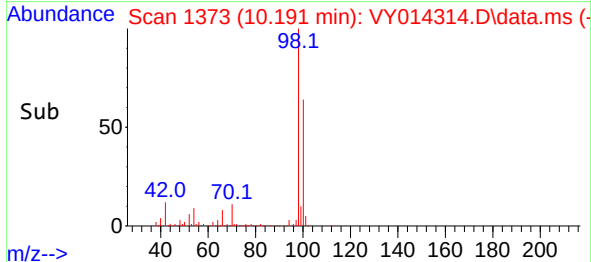
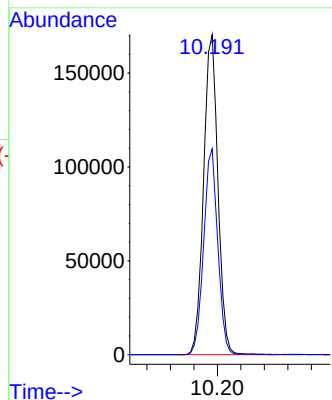
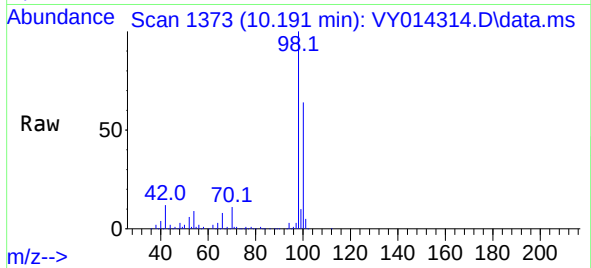




#50  
Toluene-d8  
Concen: 44.625 ug/l  
RT: 10.191 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

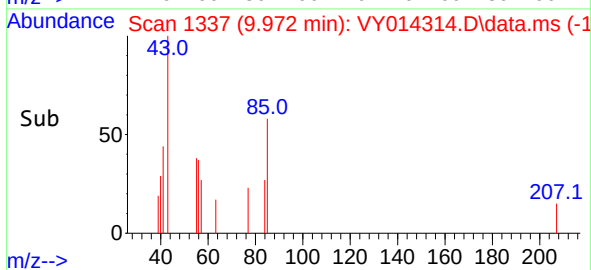
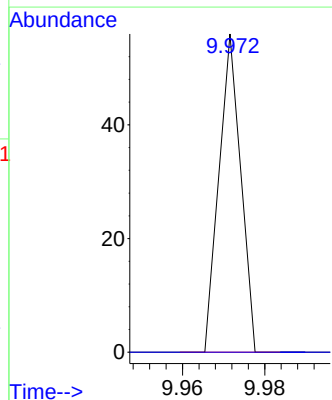
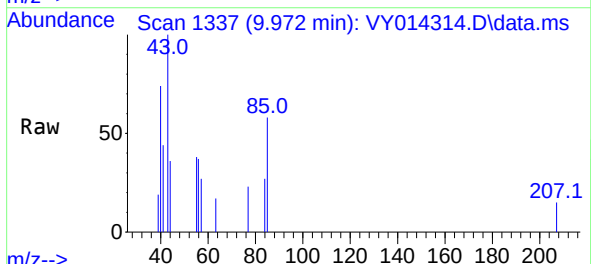
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW02-0-8-GRAB-7

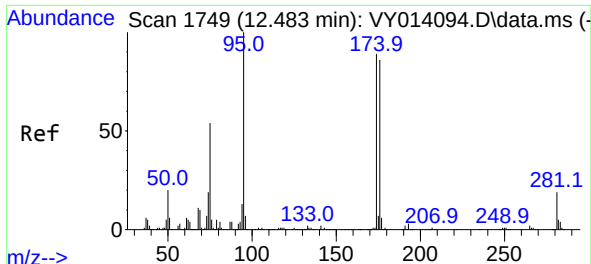
Tgt Ion: 98 Resp: 289329  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.1 75.1



#58  
2-Chloroethyl Vinyl ether  
Concen: 28.637 ug/l  
RT: 9.972 min Scan# 1337  
Delta R.T. 0.190 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Tgt Ion: 63 Resp: 20  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.2 31.8#

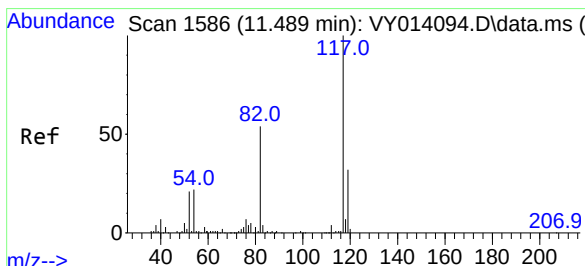
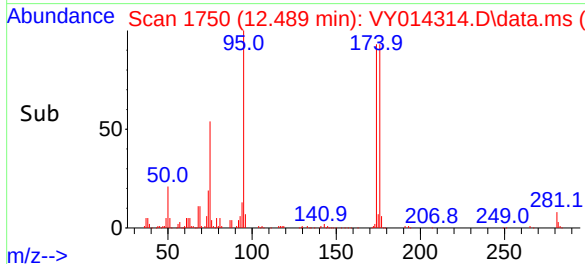
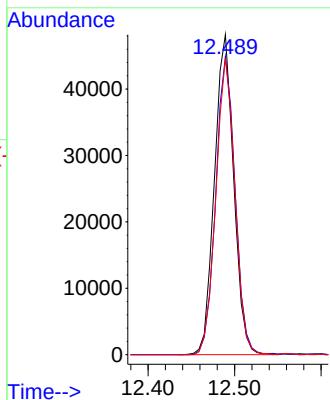
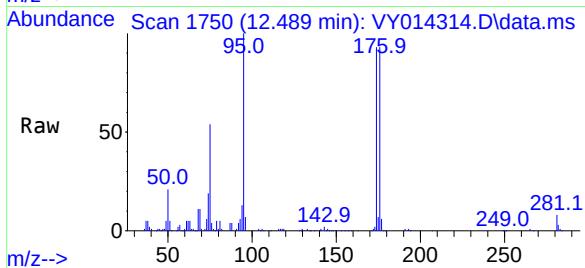




#62  
4-Bromofluorobenzene  
Concen: 32.305 ug/l  
RT: 12.489 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

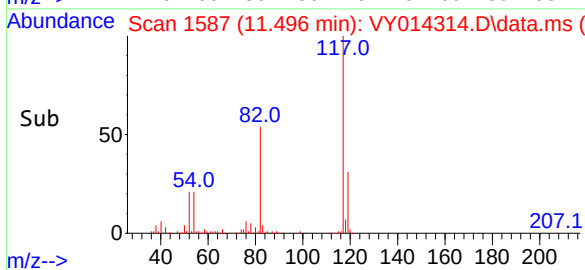
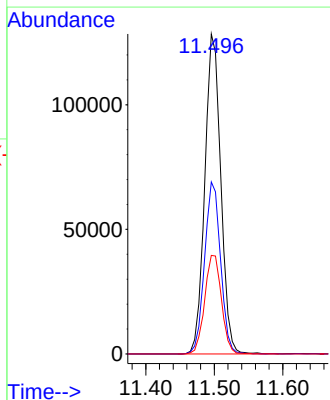
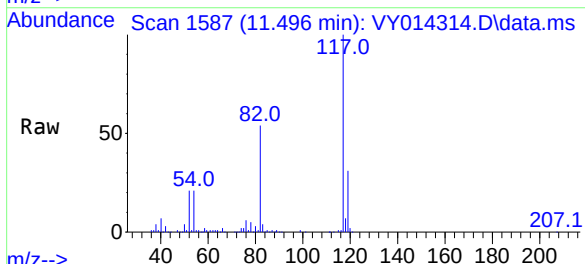
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW02-0-8-GRAB-7

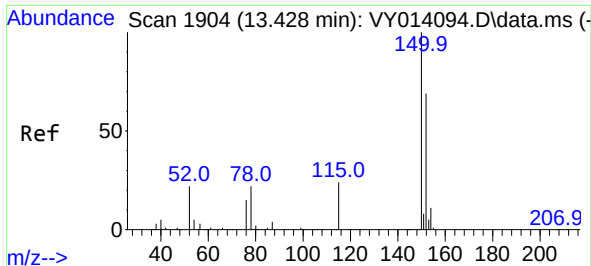
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 74405 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 93.7  | 0.0   | 178.2 |
| 176      | 91.5  | 0.0   | 173.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.007 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 209134 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 53.7  | 43.4  | 65.0   |
| 119      | 30.8  | 26.3  | 39.5   |

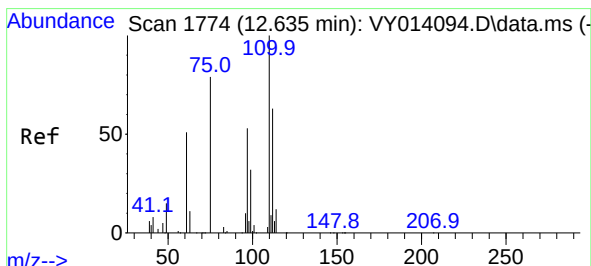
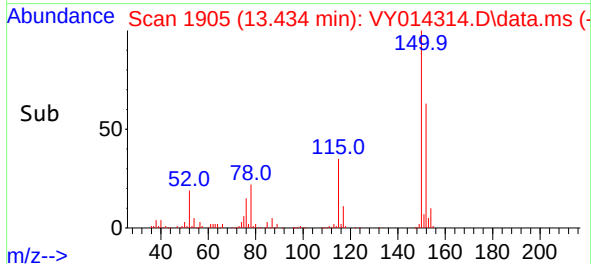
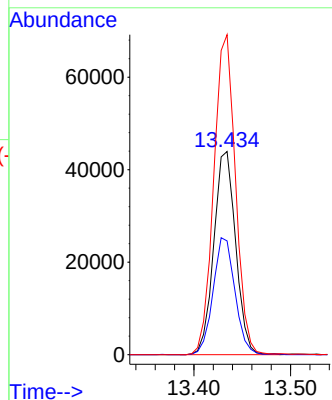
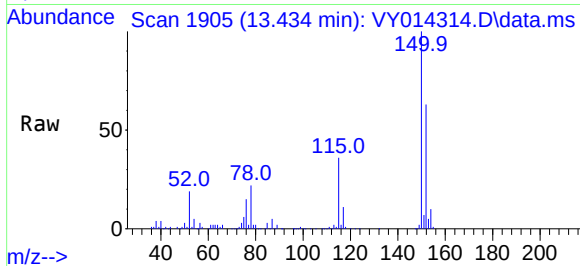




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.434 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VY014314.D  
 Acq: 21 Jun 2023 04:23

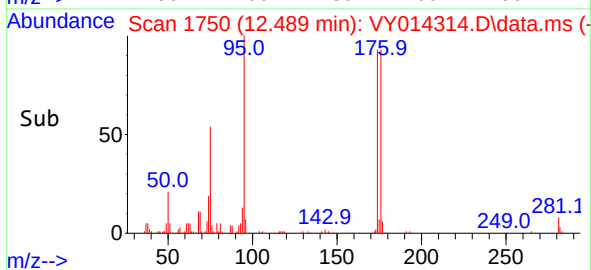
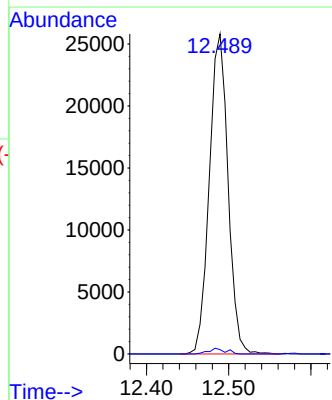
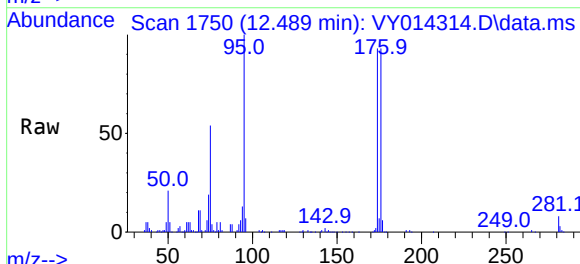
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SW02-0-8-GRAB-7

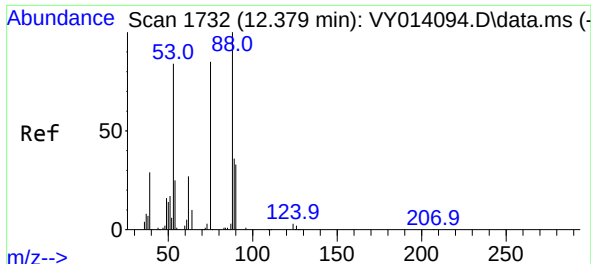
Tgt Ion:152 Resp: 68951  
 Ion Ratio Lower Upper  
 152 100  
 115 57.9 28.8 86.5  
 150 156.7 0.0 348.8



#76  
 1,2,3-Trichloropropane  
 Concen: 45.016 ug/l  
 RT: 12.489 min Scan# 1750  
 Delta R.T. -0.146 min  
 Lab File: VY014314.D  
 Acq: 21 Jun 2023 04:23

Tgt Ion: 75 Resp: 40722  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 0.0 0.0#

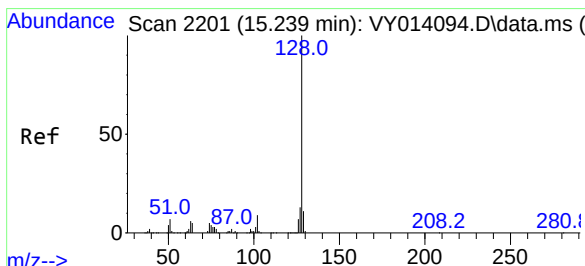
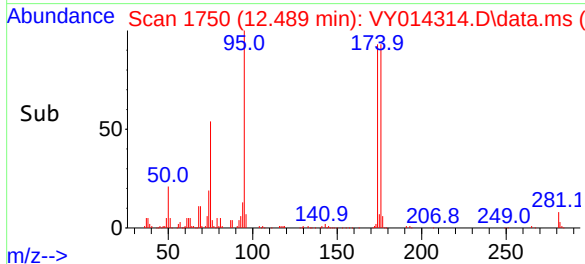
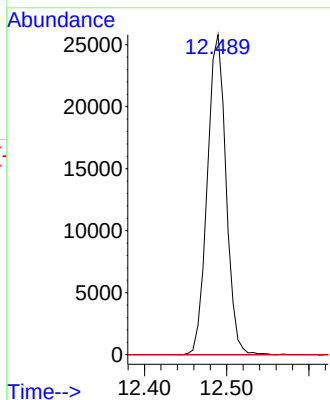
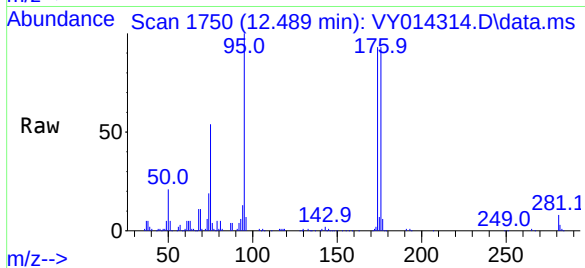




#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.306 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.110 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SW02-0-8-GRAB-7

Tgt Ion: 75 Resp: 40722  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#



#95  
Naphthalene  
Concen: 24.755 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY014314.D  
Acq: 21 Jun 2023 04:23

Tgt Ion:128 Resp: 75461  
Ion Ratio Lower Upper  
128 100  
127 13.9 10.8 16.2  
129 10.9 8.6 13.0

