

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061623\  
 Data File : VY014220.D  
 Acq On : 16 Jun 2023 21:52  
 Operator : KP/MD  
 Sample : 03224-11RE  
 Misc : 10.78g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SB-10-GRAB-7RE

Quant Time: Jun 16 23:28:05 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

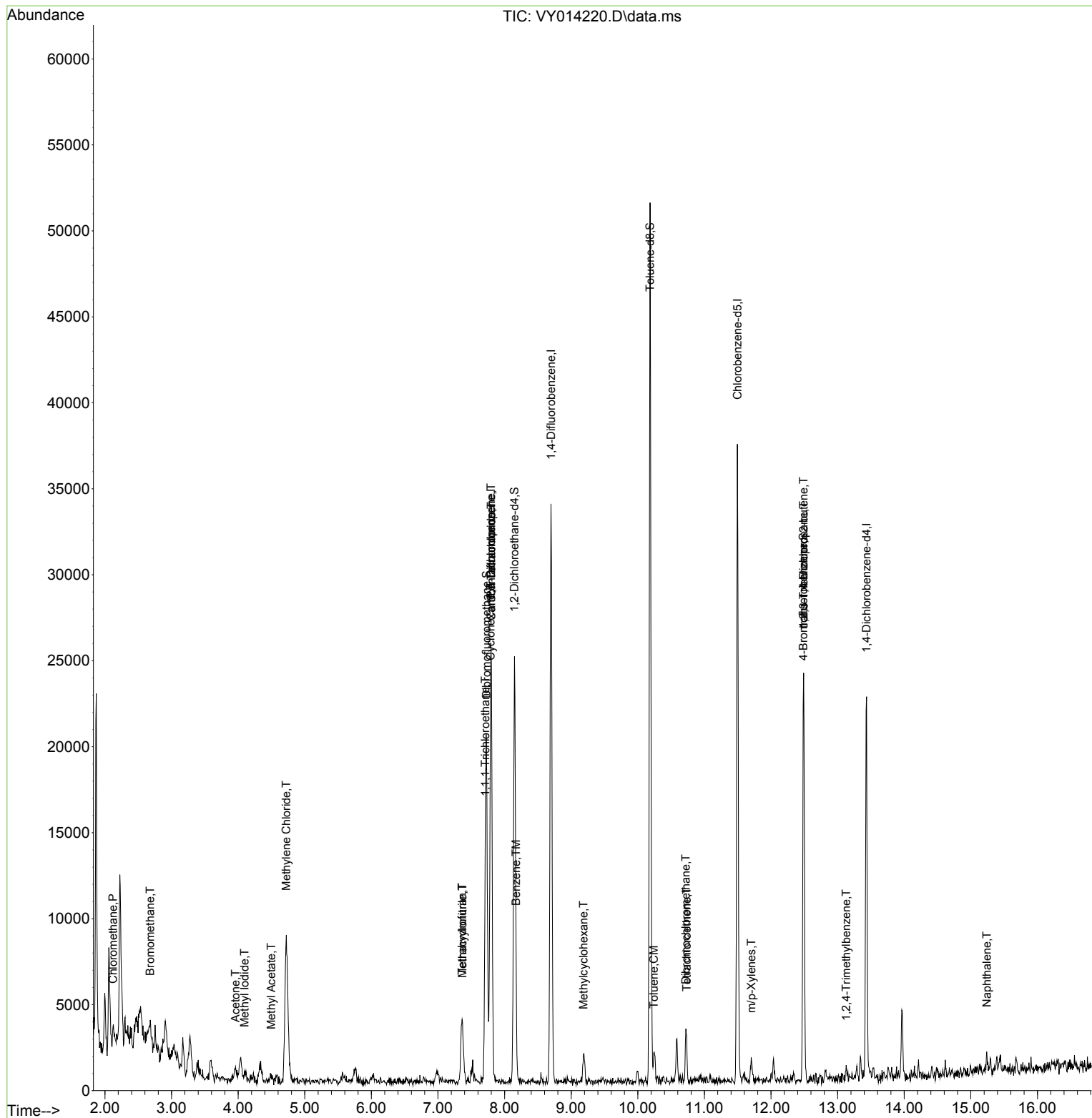
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 19827    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 27460    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.496 | 117   | 19282    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.434 | 152   | 5971     | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 19454    | 70.461    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 140.920% |          |
| 35) Dibromofluoromethane      | 7.728  | 113   | 12703    | 65.230    | ug/l       | 0.01     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 130.460% |          |
| 50) Toluene-d8                | 10.185 | 98    | 31325    | 43.026    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 86.060%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 5920     | 22.890    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 45.780%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.119  | 50    | 1297     | 4.629     | ug/l #     | 64       |
| 5) Bromomethane               | 2.680  | 94    | 696      | 3.097     | ug/l #     | 50       |
| 10) Methyl Iodide             | 4.095  | 142   | 930      | 3.153     | ug/l #     | 41       |
| 11) Tert butyl alcohol        | 4.960  | 59    | 429      | Below Cal | #          | 89       |
| 13) Acrolein                  | 3.735  | 56    | 22       | Below Cal | #          | 14       |
| 16) Acetone                   | 3.960  | 43    | 971      | 11.667    | ug/l #     | 85       |
| 18) Methyl Acetate            | 4.497  | 43    | 620      | 1.919     | ug/l       | 93       |
| 20) Methylene Chloride        | 4.722  | 84    | 6319     | 21.758    | ug/l       | 96       |
| 29) Tetrahydrofuran           | 7.362  | 42    | 2974     | 45.781    | ug/l       | 94       |
| 31) Cyclohexane               | 7.789  | 56    | 509      | 1.376     | ug/l #     | 49       |
| 32) 1,1,1-Trichloroethane     | 7.710  | 97    | 2127     | 4.907     | ug/l       | 100      |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 1618     | 5.329     | ug/l #     | 41       |
| 38) Carbon Tetrachloride      | 7.801  | 117   | 1896     | 5.412     | ug/l #     | 17       |
| 39) Methylcyclohexane         | 9.185  | 83    | 743      | 2.206     | ug/l #     | 85       |
| 40) Benzene                   | 8.173  | 78    | 1088     | 1.205     | ug/l #     | 84       |
| 41) Methacrylonitrile         | 7.368  | 41    | 2103     | 19.671    | ug/l #     | 40       |
| 52) Toluene                   | 10.240 | 92    | 833      | 1.488     | ug/l       | 99       |
| 60) Dibromochloromethane      | 10.721 | 129   | 629      | 2.625     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 10.734 | 164   | 721      | 4.387     | ug/l #     | 88       |
| 68) m/p-Xylenes               | 11.703 | 106   | 385      | 1.234     | ug/l #     | 42       |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 3220     | 41.104    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75    | 3220     | 88.851    | ug/l #     | 10       |
| 84) 1,2,4-Trimethylbenzene    | 13.130 | 105   | 653      | 1.691     | ug/l       | 95       |
| 95) Naphthalene               | 15.239 | 128   | 942      | 3.568     | ug/l #     | 88       |
| -----                         |        |       |          |           |            |          |

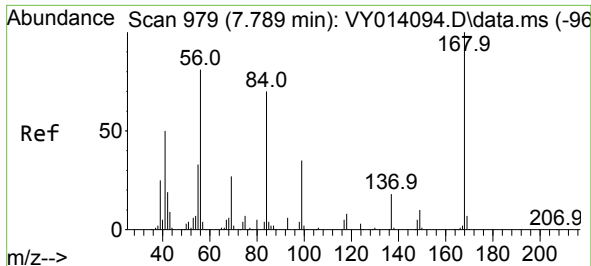
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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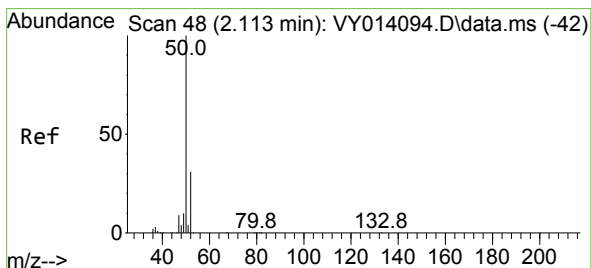
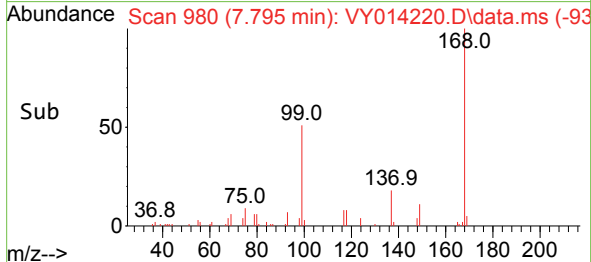
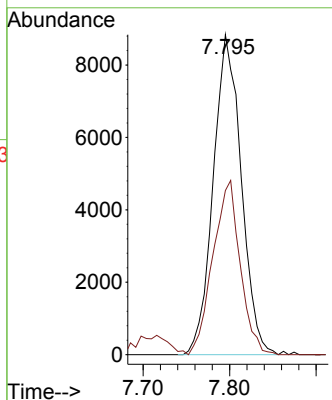
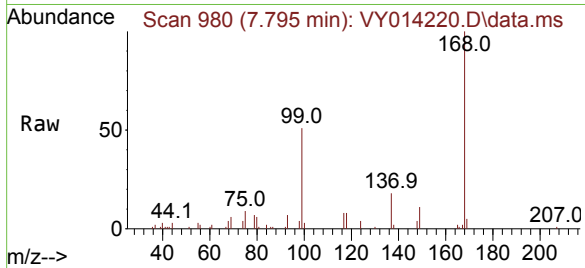




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

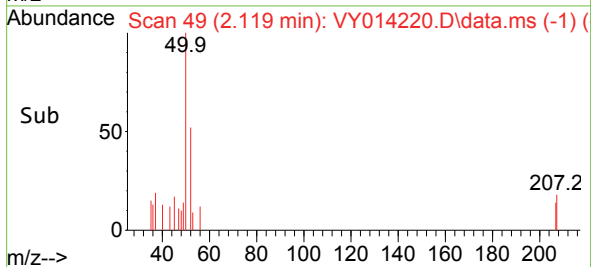
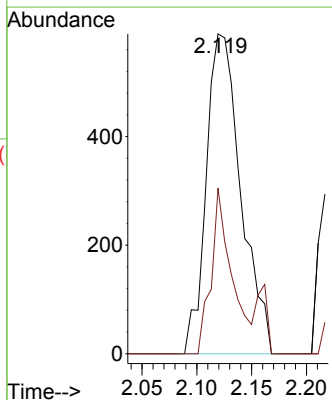
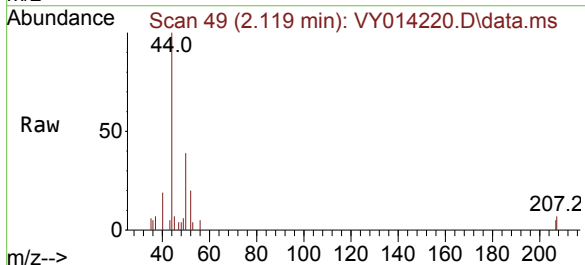
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

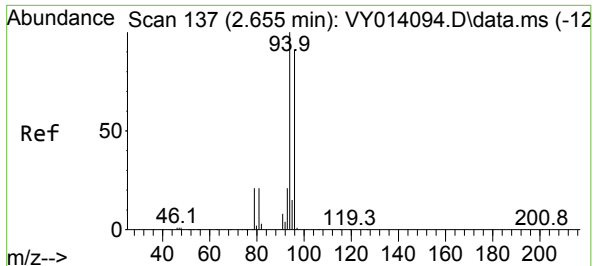
Tgt Ion:168 Resp: 19827  
Ion Ratio Lower Upper  
168 100  
99 51.3 43.4 65.0



#3  
Chloromethane  
Concen: 4.629 ug/l  
RT: 2.119 min Scan# 49  
Delta R.T. 0.006 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

Tgt Ion: 50 Resp: 1297  
Ion Ratio Lower Upper  
50 100  
52 51.8 25.4 38.2#

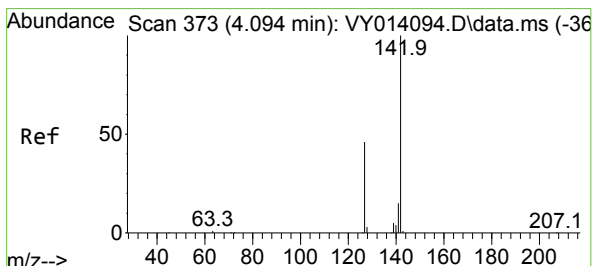
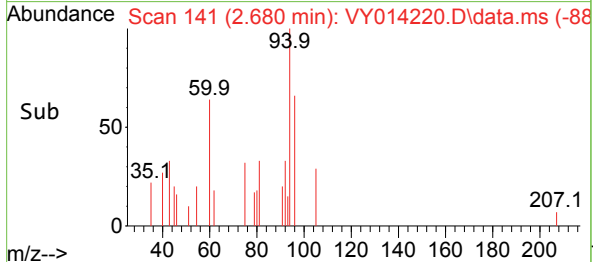
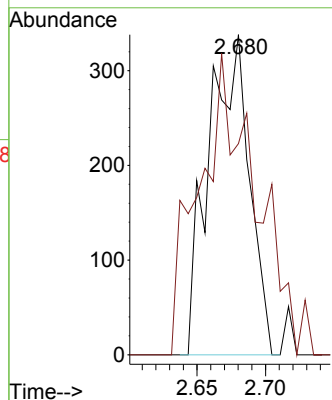
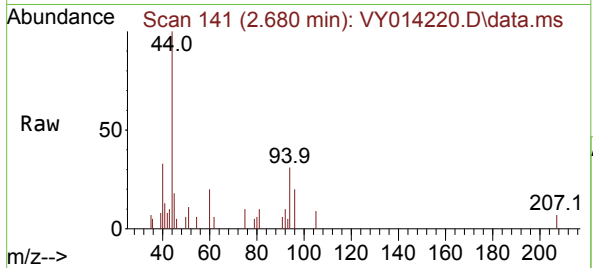




#5  
Bromomethane  
Concen: 3.097 ug/l  
RT: 2.680 min Scan# 141  
Delta R.T. 0.025 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

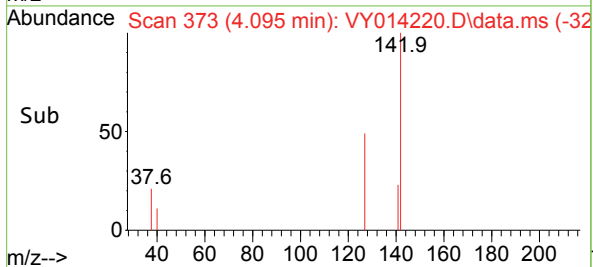
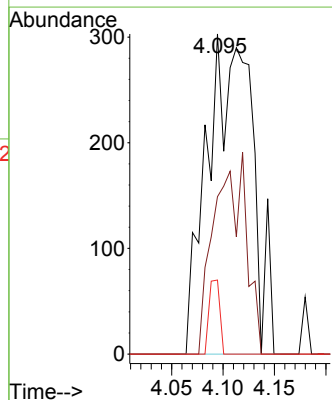
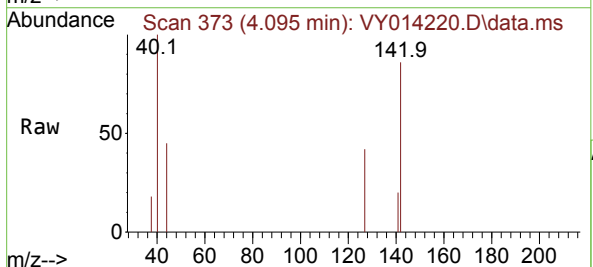
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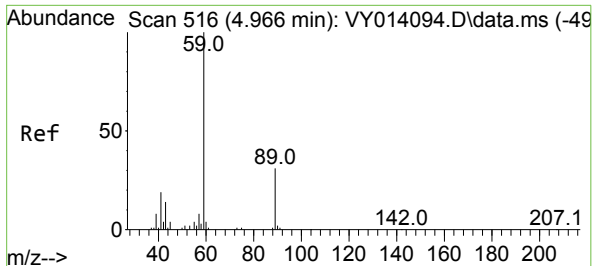
Tgt Ion: 94 Resp: 696  
Ion Ratio Lower Upper  
94 100  
96 46.2 75.8 113.6#



#10  
Methyl Iodide  
Concen: 3.153 ug/l  
RT: 4.095 min Scan# 373  
Delta R.T. 0.001 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

Tgt Ion:142 Resp: 930  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 5.5 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.960 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY014220.D

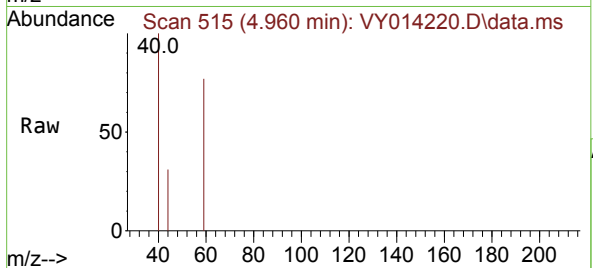
Acq: 16 Jun 2023 21:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-10-GRAB-7RE

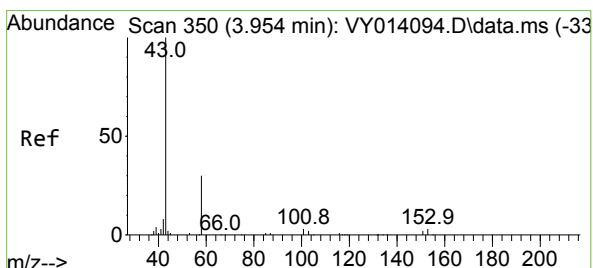
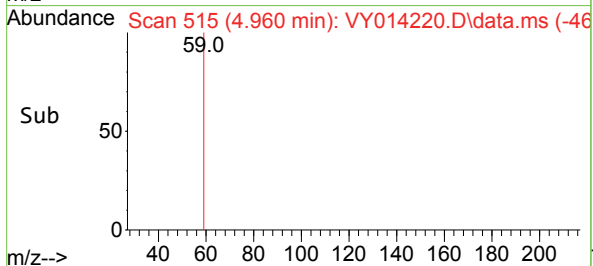
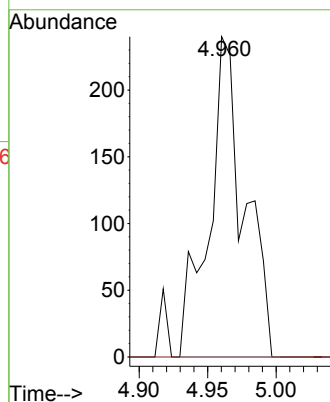


Tgt Ion: 59 Resp: 429

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#16

Acetone

Concen: 11.667 ug/l

RT: 3.960 min Scan# 351

Delta R.T. 0.006 min

Lab File: VY014220.D

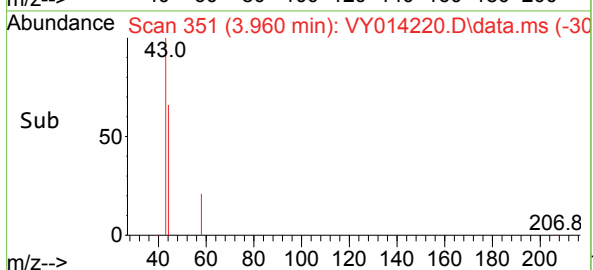
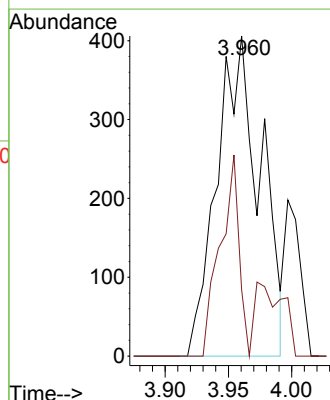
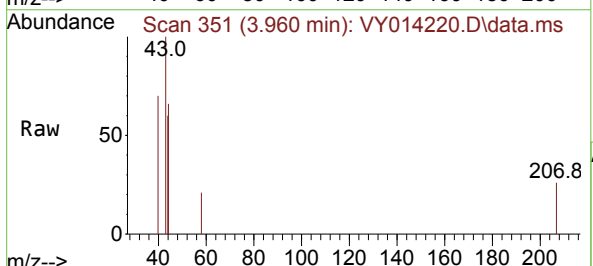
Acq: 16 Jun 2023 21:52

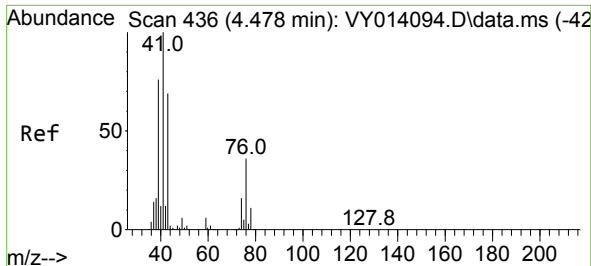
Tgt Ion: 43 Resp: 971

Ion Ratio Lower Upper

43 100

58 20.7 22.7 34.1#

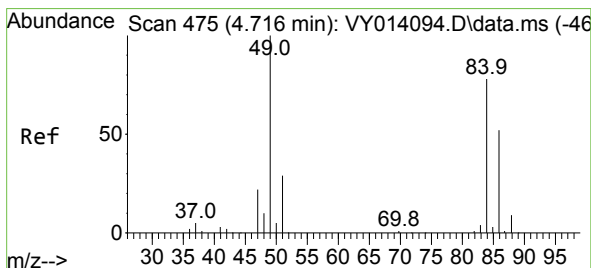
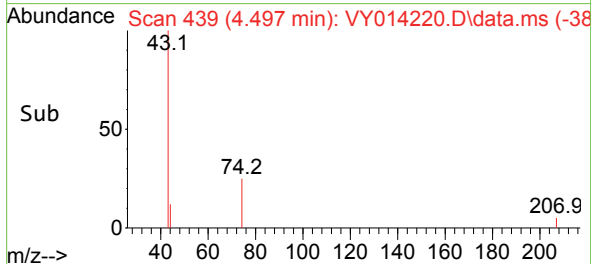
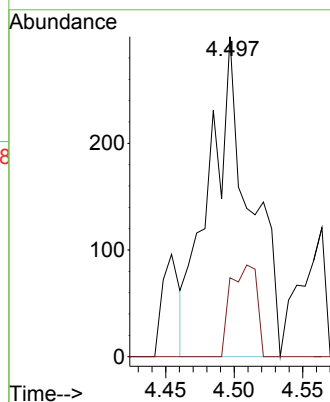
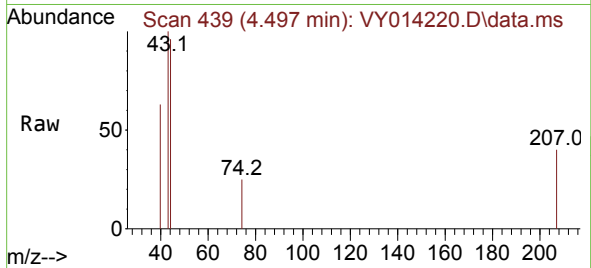




#18  
Methyl Acetate  
Concen: 1.919 ug/l  
RT: 4.497 min Scan# 41  
Delta R.T. 0.019 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

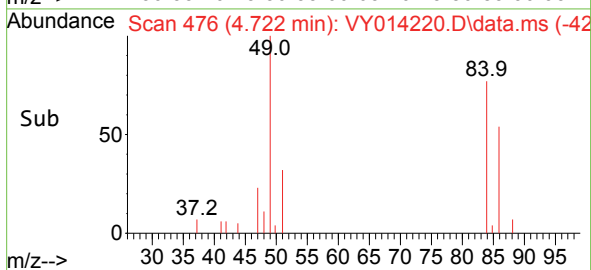
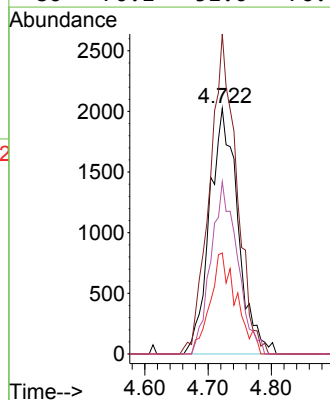
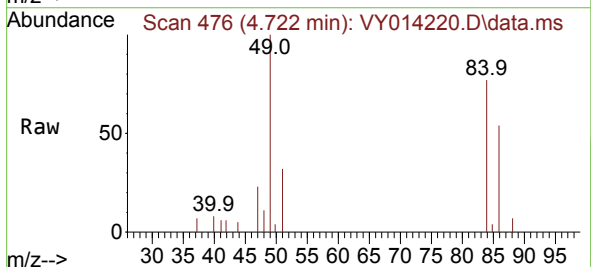
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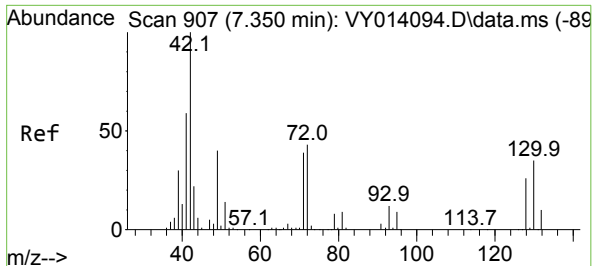
Tgt Ion: 43 Resp: 620  
Ion Ratio Lower Upper  
43 100  
74 18.4 17.4 26.0



#20  
Methylene Chloride  
Concen: 21.758 ug/l  
RT: 4.722 min Scan# 476  
Delta R.T. 0.006 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

Tgt Ion: 84 Resp: 6319  
Ion Ratio Lower Upper  
84 100  
49 130.3 106.9 160.3  
51 41.1 33.2 49.8  
86 70.1 51.0 76.6





#29

Tetrahydrofuran

Concen: 45.781 ug/l

RT: 7.362 min Scan# 907

Delta R.T. 0.012 min

Lab File: VY014220.D

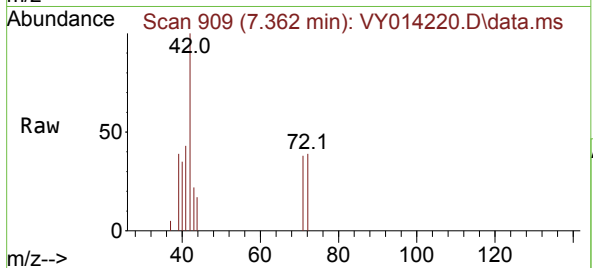
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Instrument :

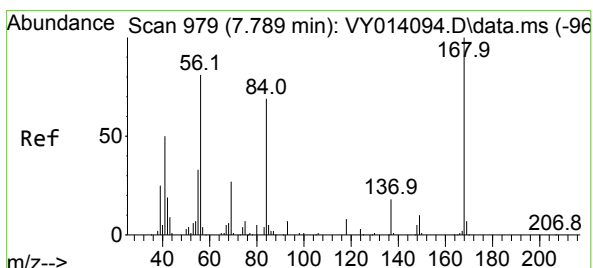
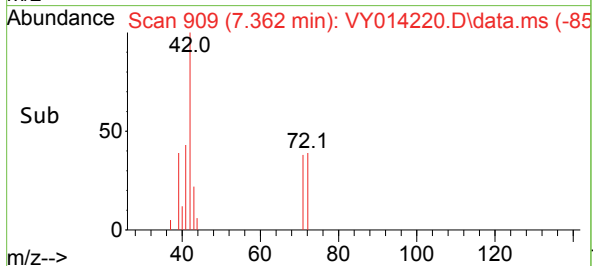
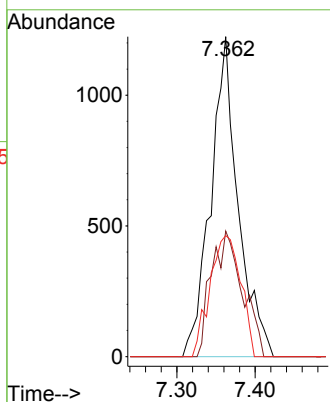
MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-10-GRAB-7RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2974  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 44.6  | 32.8  | 49.2  |
| 71       | 42.6  | 31.0  | 46.4  |



#31

Cyclohexane

Concen: 1.376 ug/l

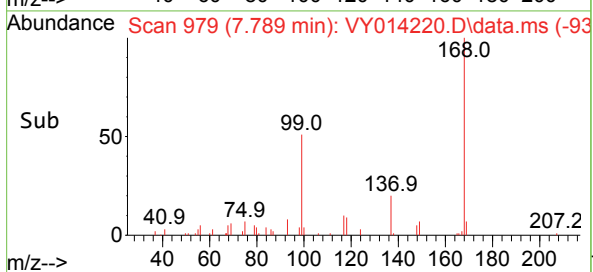
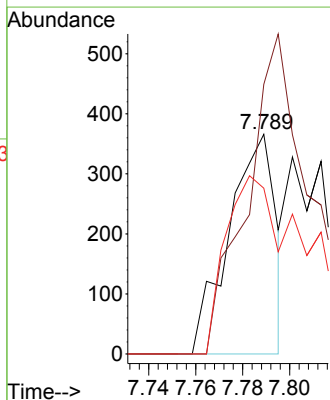
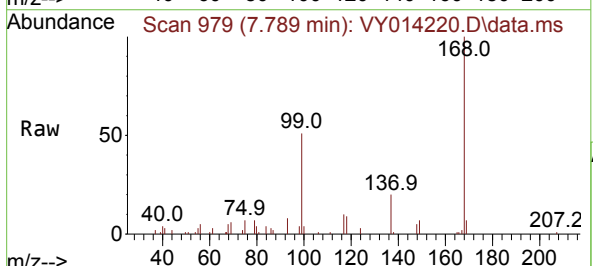
RT: 7.789 min Scan# 979

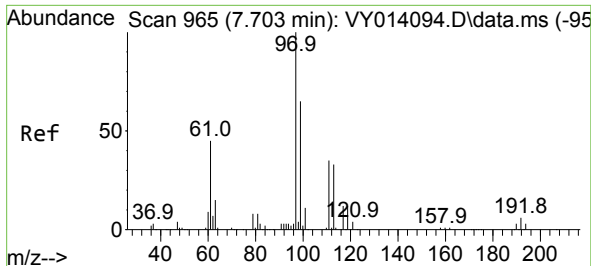
Delta R.T. 0.000 min

Lab File: VY014220.D

Acq: 16 Jun 2023 21:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 509   |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 122.7 | 27.8  | 41.6# |
| 84       | 75.4  | 66.4  | 99.6  |

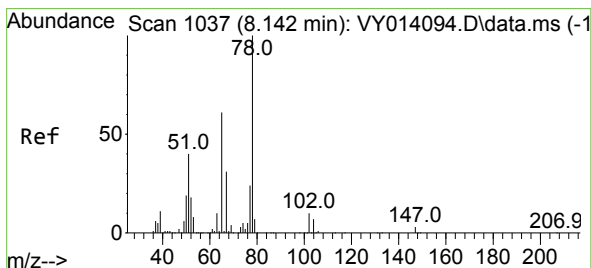
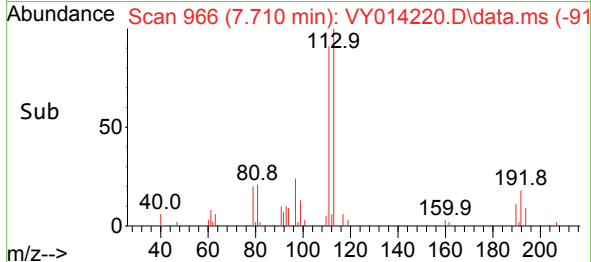
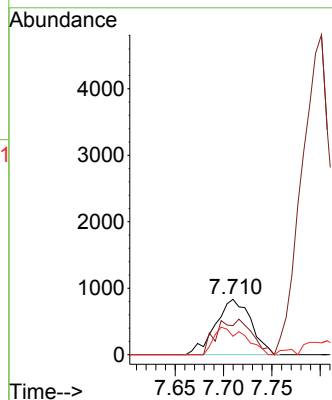
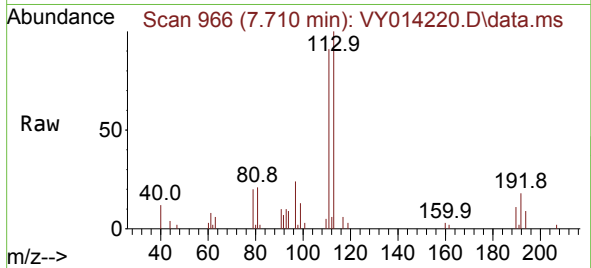




#32  
1,1,1-Trichloroethane  
Concen: 4.907 ug/l  
RT: 7.710 min Scan# 91  
Delta R.T. 0.007 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

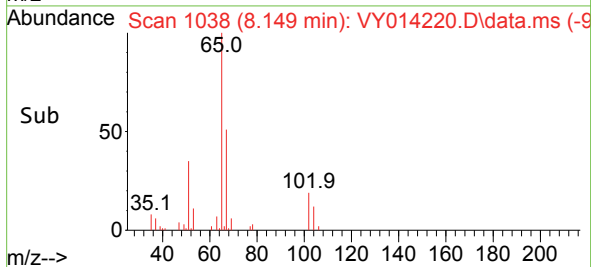
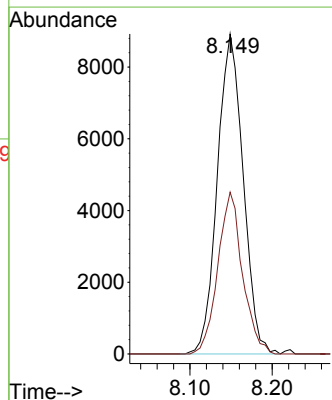
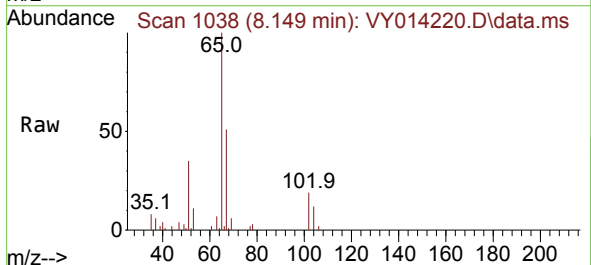
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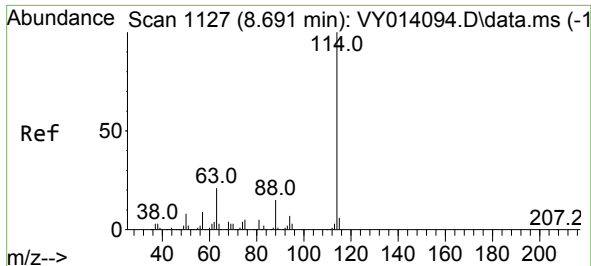
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 2127  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 63.4     | 50.8 76.2   |
| 61 44.0     | 35.1 52.7   |



#33  
1,2-Dichloroethane-d4  
Concen: 70.461 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.007 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

|             |             |
|-------------|-------------|
| Tgt Ion: 65 | Resp: 19454 |
| Ion Ratio   | Lower Upper |
| 65 100      |             |
| 67 48.3     | 0.0 101.8   |

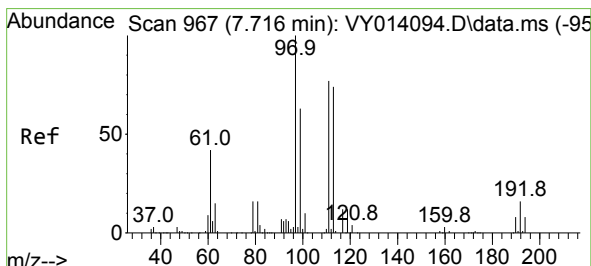
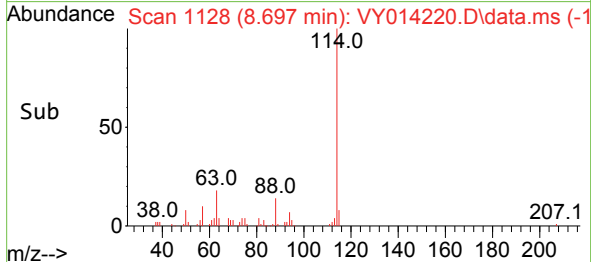
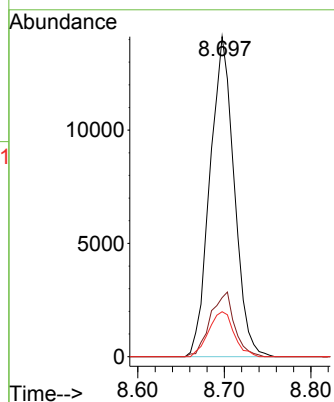
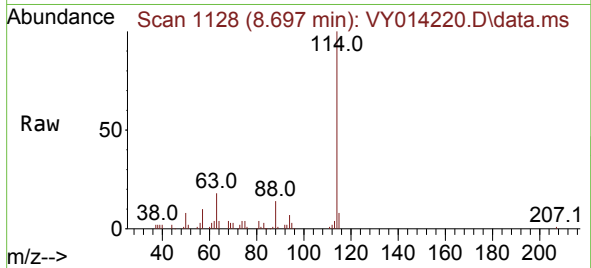




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

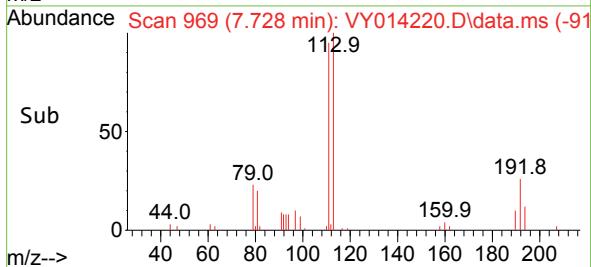
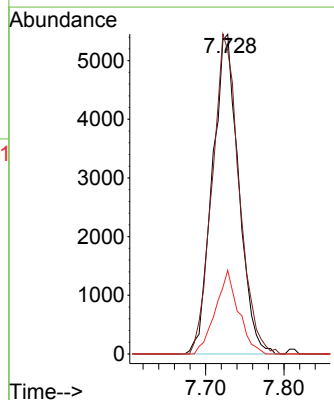
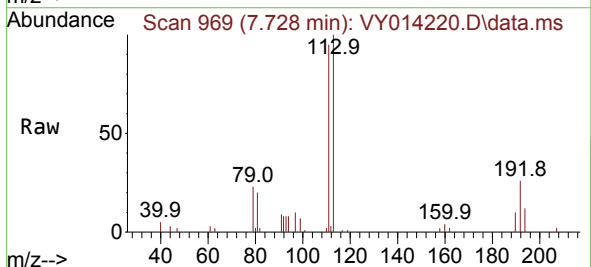
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

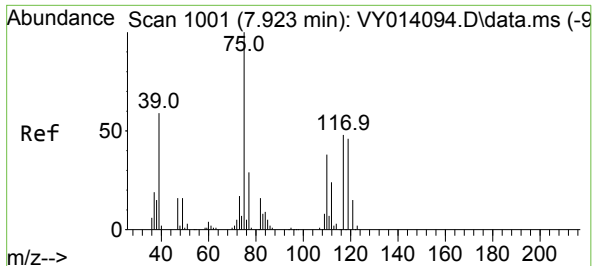
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 27460 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 18.4  | 0.0   | 42.4  |
| 88        | 14.1  | 0.0   | 30.6  |



#35  
Dibromofluoromethane  
Concen: 65.230 ug/l  
RT: 7.728 min Scan# 969  
Delta R.T. 0.012 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 12703 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 102.0 | 81.3  | 121.9 |
| 192       | 23.0  | 16.9  | 25.3  |





#36

1,1-Dichloropropene

Concen: 5.329 ug/l

RT: 7.795 min Scan# 9

Delta R.T. -0.128 min

Lab File: VY014220.D

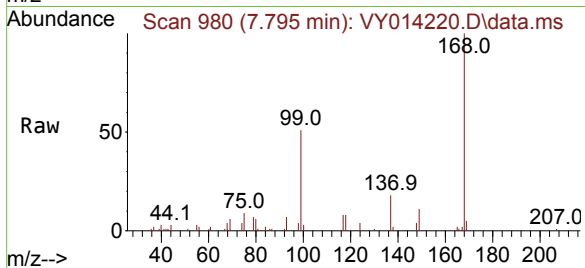
Acq: 16 Jun 2023 21:52

Instrument :

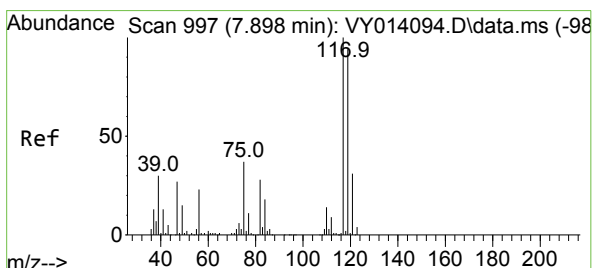
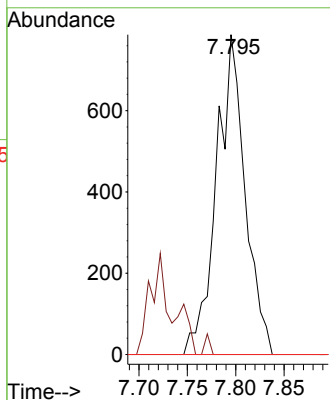
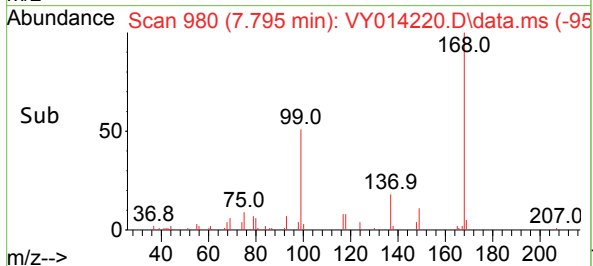
MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-10-GRAB-7RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 1618  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 0.0   | 17.8  | 53.5# |
| 77       | 0.0   | 24.4  | 36.6# |



#38

Carbon Tetrachloride

Concen: 5.412 ug/l

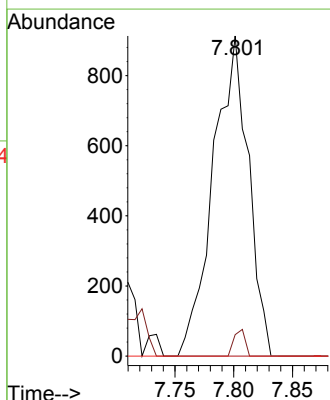
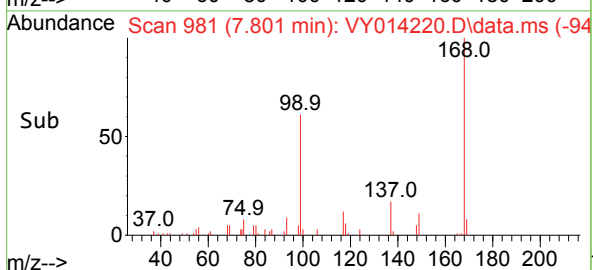
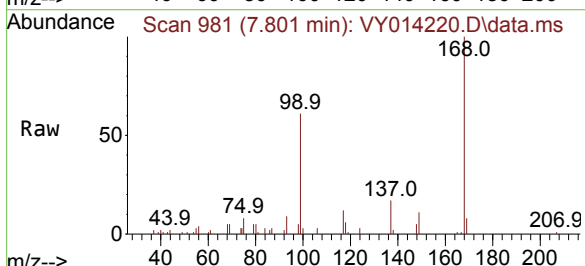
RT: 7.801 min Scan# 981

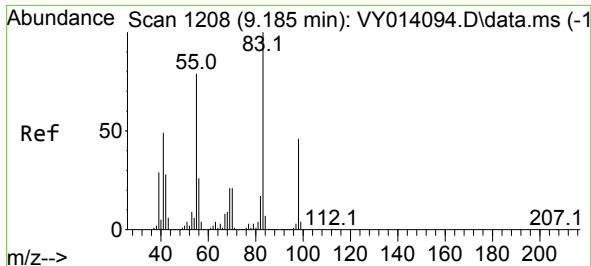
Delta R.T. -0.097 min

Lab File: VY014220.D

Acq: 16 Jun 2023 21:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 1896   |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.7   | 76.4  | 114.6# |
| 121      | 0.0   | 25.8  | 38.6#  |





#39

Methylcyclohexane

Concen: 2.206 ug/l

RT: 9.185 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014220.D

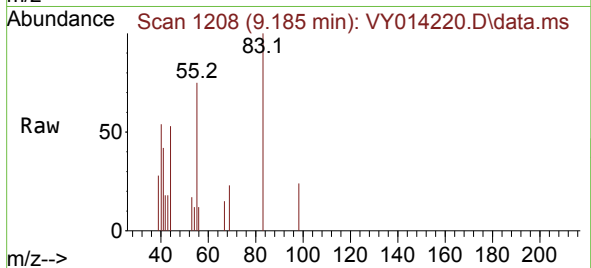
Acq: 16 Jun 2023 21:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-10-GRAB-7RE



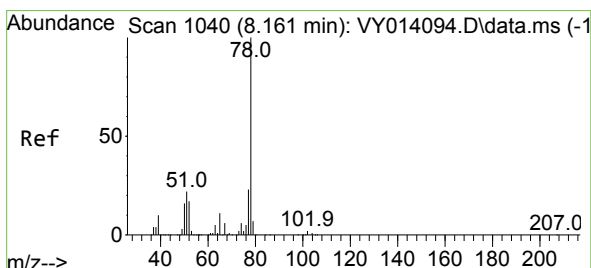
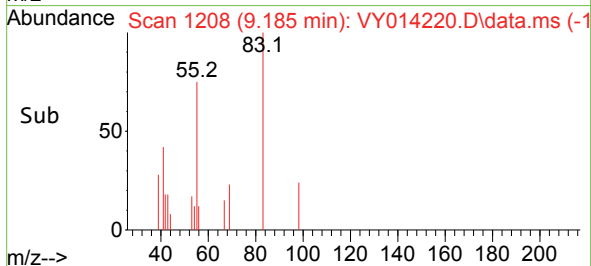
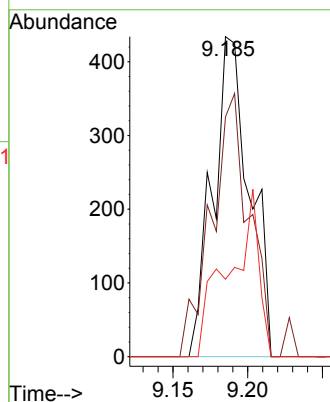
Tgt Ion: 83 Resp: 743

Ion Ratio Lower Upper

83 100

55 74.9 63.0 94.4

98 24.2 37.4 56.2#



#40

Benzene

Concen: 1.205 ug/l

RT: 8.173 min Scan# 1042

Delta R.T. 0.012 min

Lab File: VY014220.D

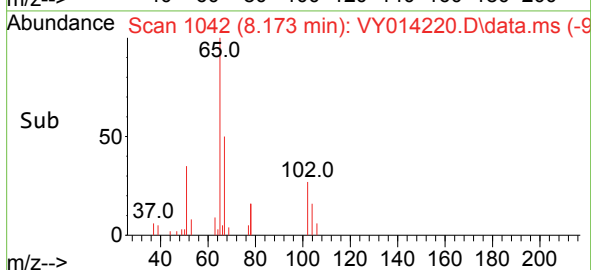
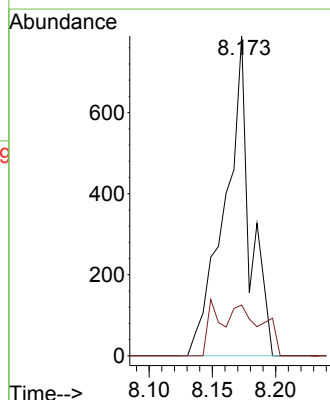
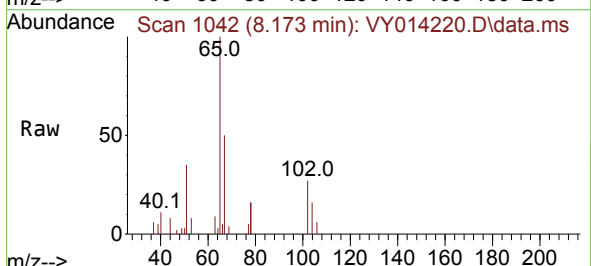
Acq: 16 Jun 2023 21:52

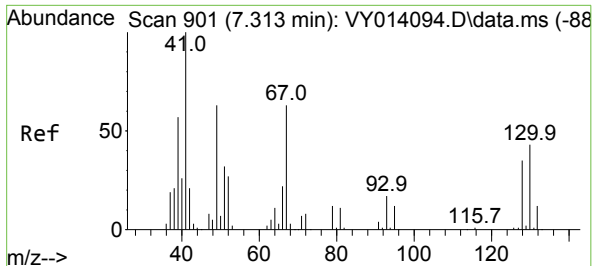
Tgt Ion: 78 Resp: 1088

Ion Ratio Lower Upper

78 100

77 15.8 19.0 28.6#

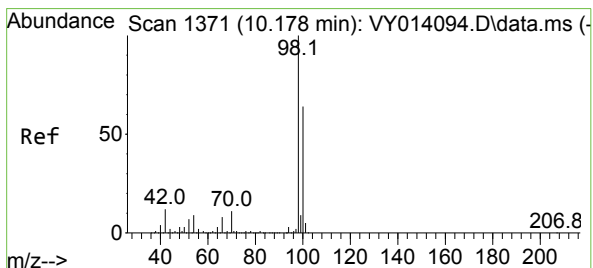
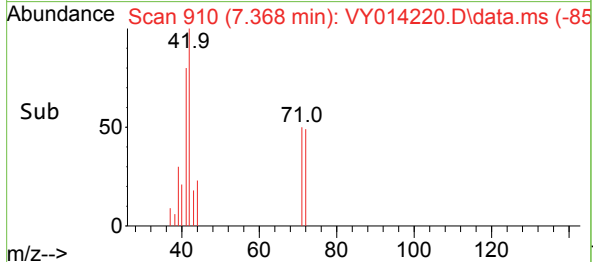
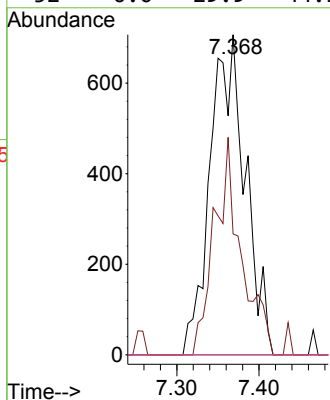
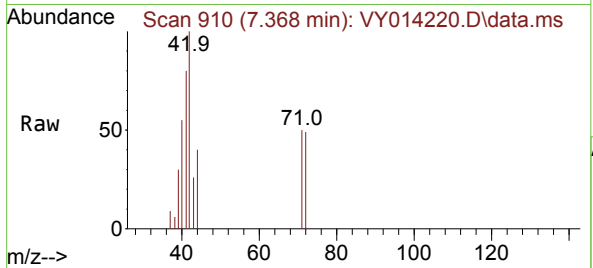




#41  
Methacrylonitrile  
Concen: 19.671 ug/l  
RT: 7.368 min Scan# 910  
Delta R.T. 0.055 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

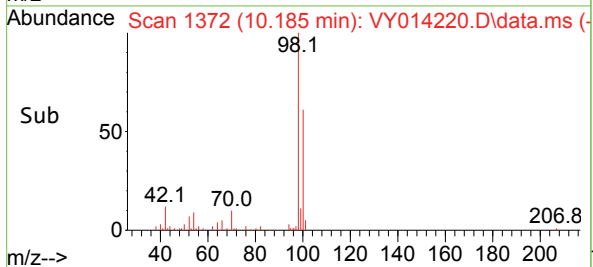
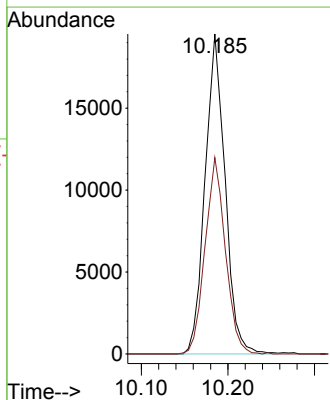
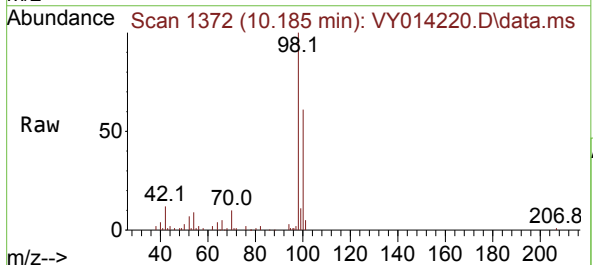
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

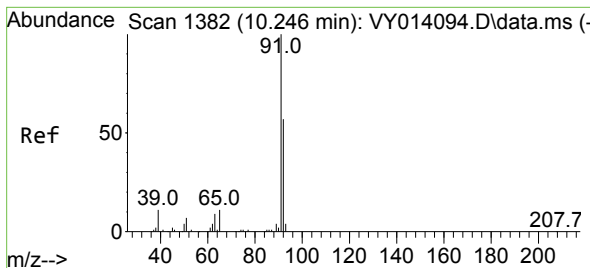
|             |                 |
|-------------|-----------------|
| Tgt Ion: 41 | Resp: 2103      |
| Ion Ratio   | Lower Upper     |
| 41          | 100             |
| 39          | 51.6 52.1 78.1# |
| 67          | 0.0 66.2 99.2#  |
| 52          | 0.0 29.9 44.9#  |



#50  
Toluene-d8  
Concen: 43.026 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. 0.007 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 31325    |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 62.4 50.1 75.1 |





#52

Toluene

Concen: 1.488 ug/l

RT: 10.240 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY014220.D

Acq: 16 Jun 2023 21:52

Instrument :

MSVOA\_Y

ClientSampleId :

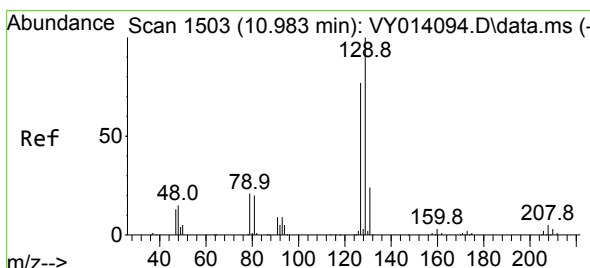
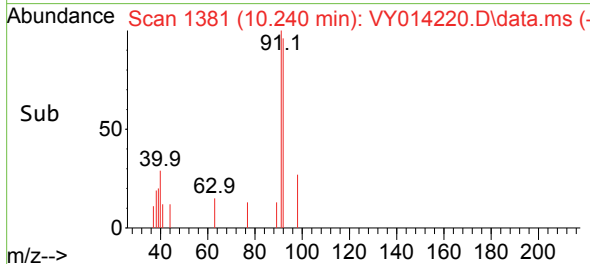
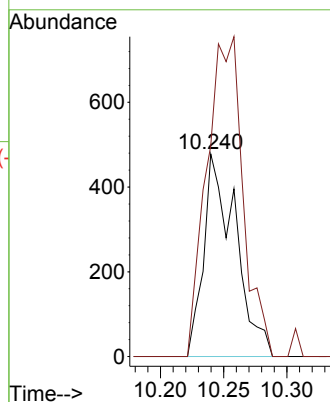
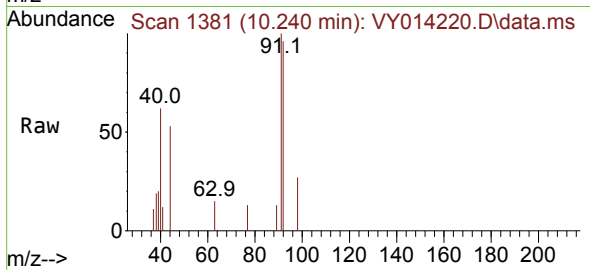
TOTAL-VOC-SB-10-GRAB-7RE

Tgt Ion: 92 Resp: 833

Ion Ratio Lower Upper

92 100

91 180.6 143.8 215.6



#60

Dibromochloromethane

Concen: 2.625 ug/l

RT: 10.721 min Scan# 1460

Delta R.T. -0.262 min

Lab File: VY014220.D

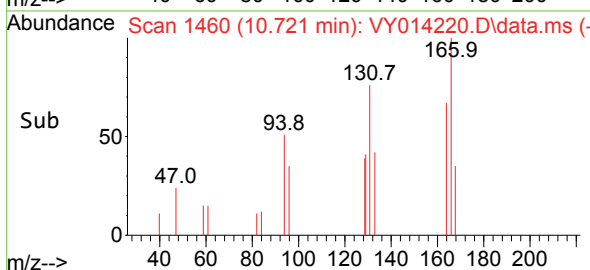
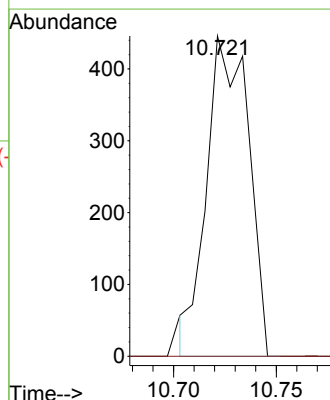
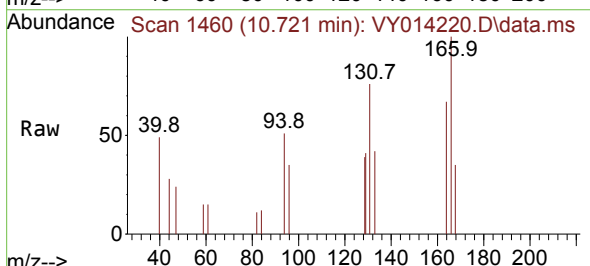
Acq: 16 Jun 2023 21:52

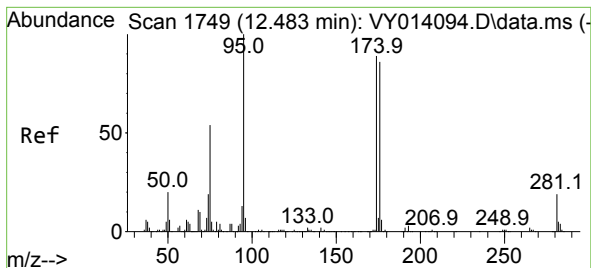
Tgt Ion: 129 Resp: 629

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#

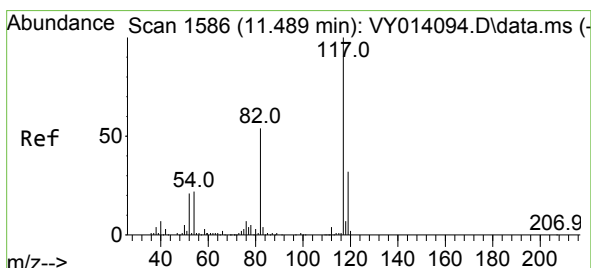
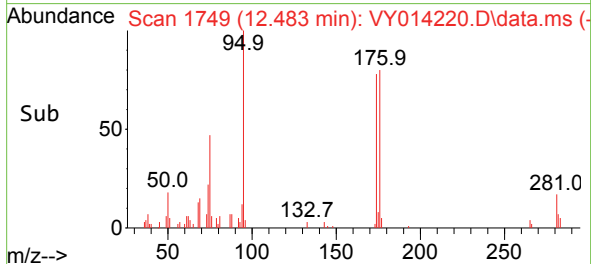
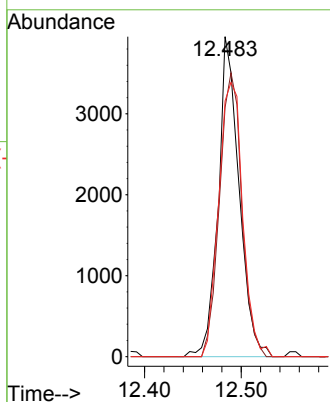
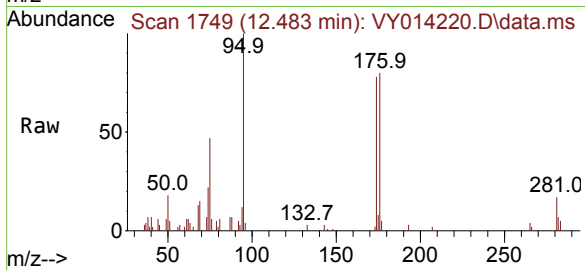




#62  
4-Bromofluorobenzene  
Concen: 22.890 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

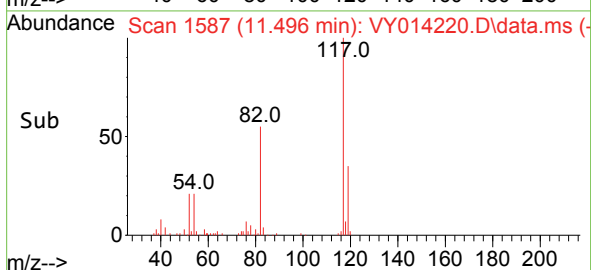
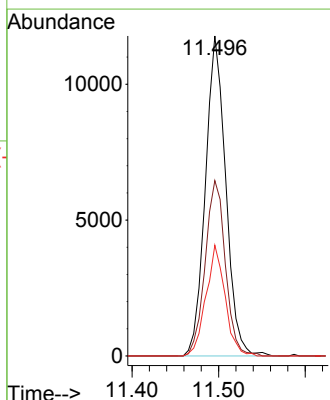
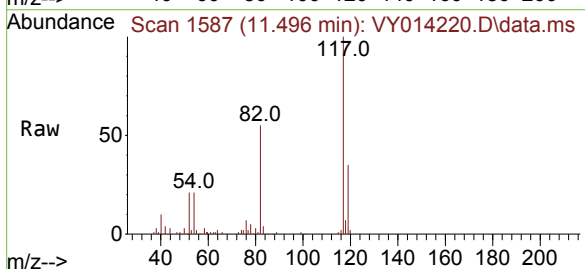
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

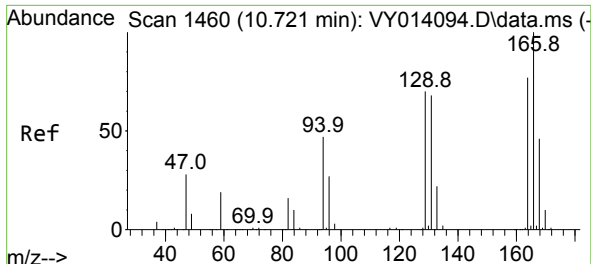
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 5920  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 94.4  | 0.0   | 178.2 |
| 176      | 98.5  | 0.0   | 173.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 1587  
Delta R.T. 0.007 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 19282 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 54.8  | 43.4  | 65.0  |
| 119      | 34.6  | 26.3  | 39.5  |

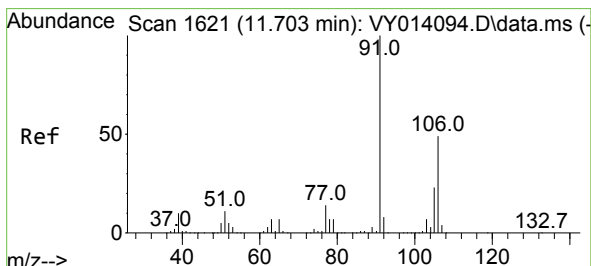
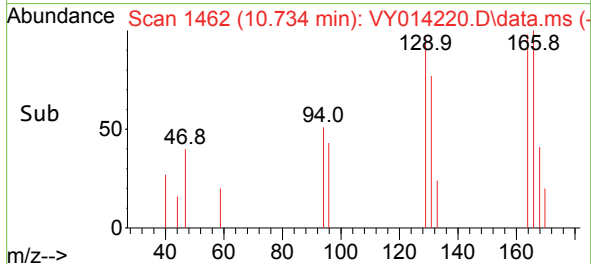
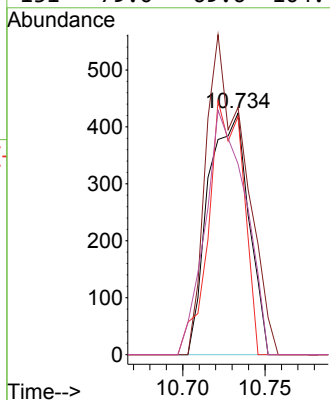
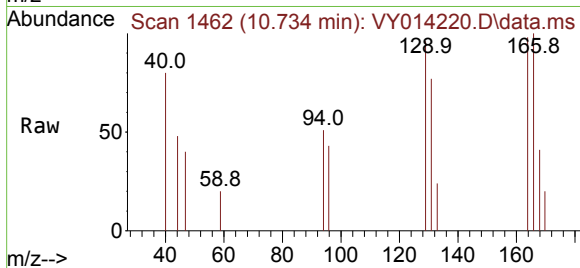




#64  
Tetrachloroethene  
Concen: 4.387 ug/l  
RT: 10.734 min Scan# 1460  
Delta R.T. 0.013 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

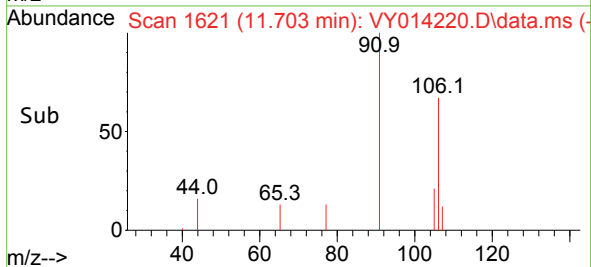
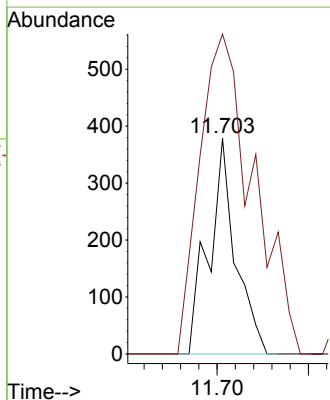
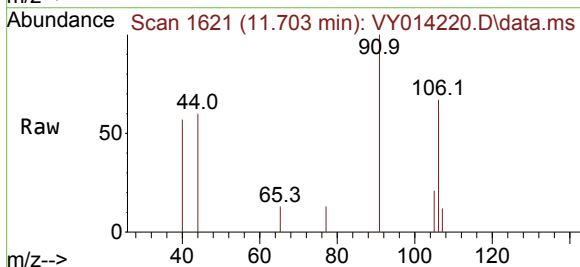
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

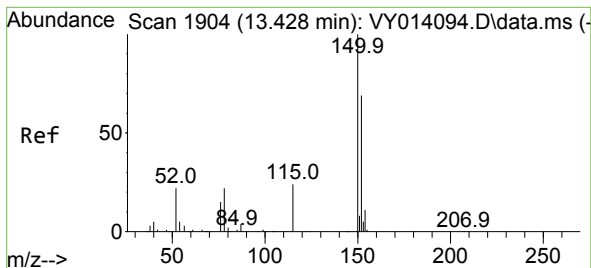
Tgt Ion:164 Resp: 721  
Ion Ratio Lower Upper  
164 100  
166 102.4 103.0 154.6#  
129 98.6 77.2 115.8  
131 79.0 69.6 104.4



#68  
m/p-Xylenes  
Concen: 1.234 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

Tgt Ion:106 Resp: 385  
Ion Ratio Lower Upper  
106 100  
91 297.4 166.1 249.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY014220.D

Acq: 16 Jun 2023 21:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-10-GRAB-7RE

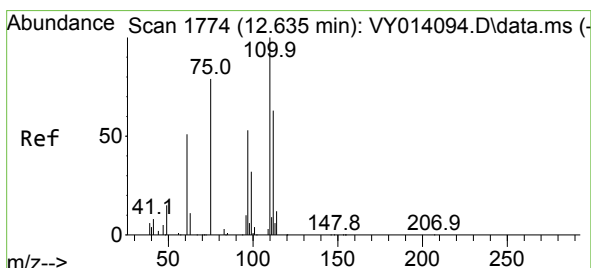
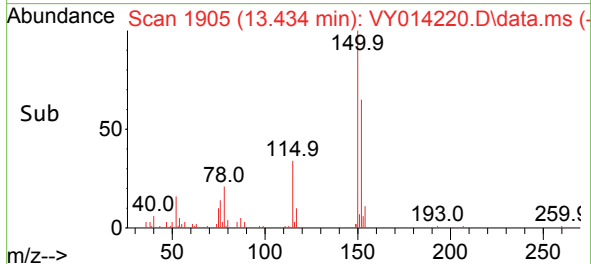
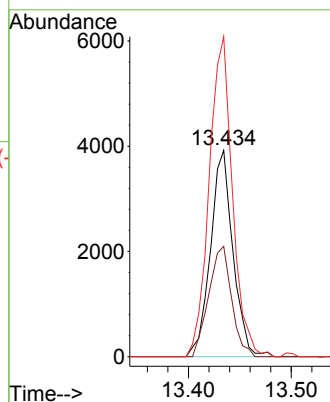
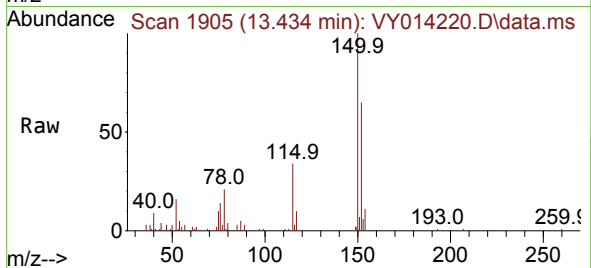
Tgt Ion:152 Resp: 5971

Ion Ratio Lower Upper

152 100

115 54.5 28.8 86.5

150 160.2 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 41.104 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.146 min

Lab File: VY014220.D

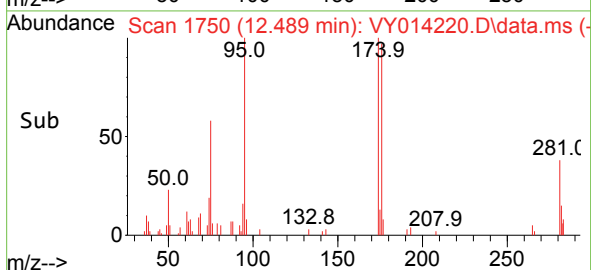
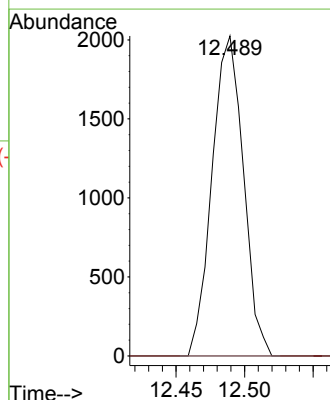
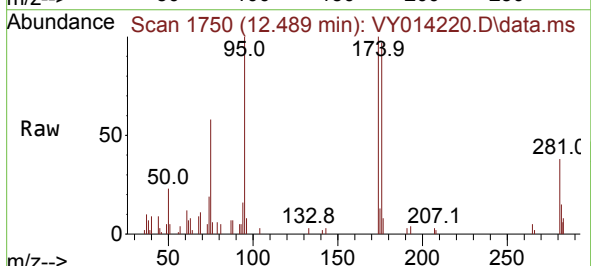
Acq: 16 Jun 2023 21:52

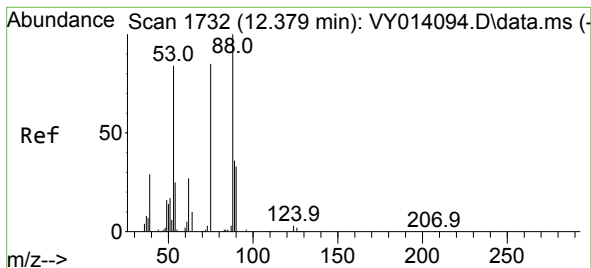
Tgt Ion: 75 Resp: 3220

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

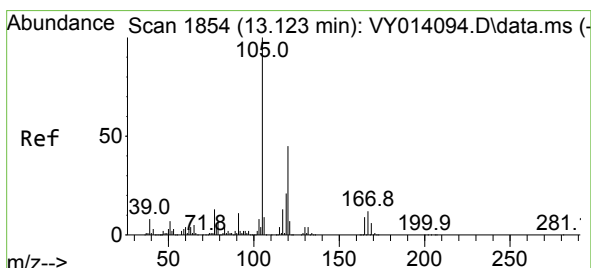
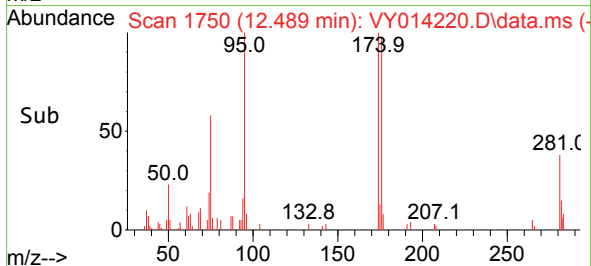
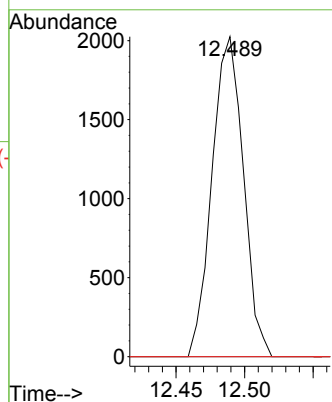
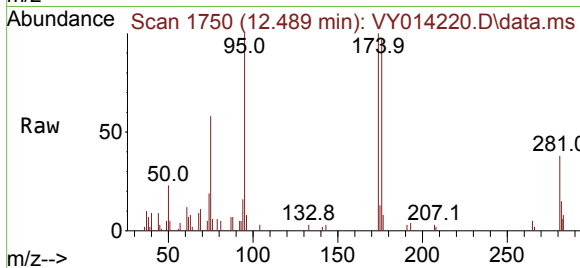




#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.851 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.110 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

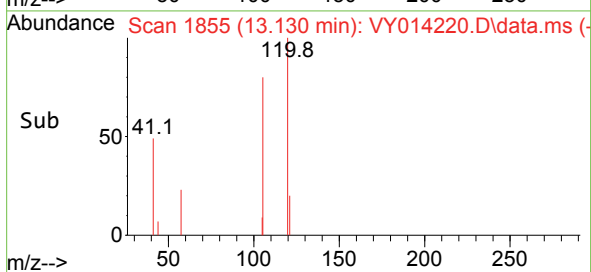
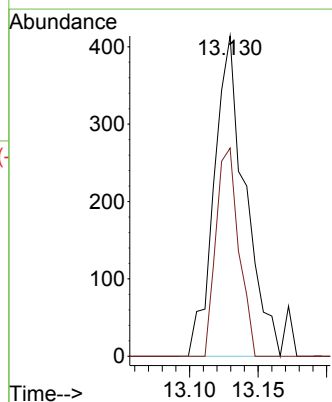
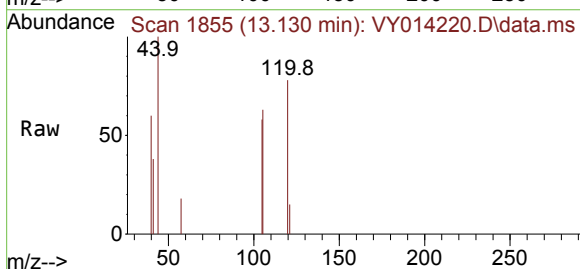
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE

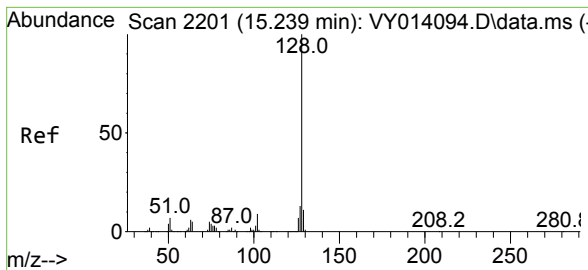
Tgt Ion: 75 Resp: 3220  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.691 ug/l  
RT: 13.130 min Scan# 1855  
Delta R.T. 0.007 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

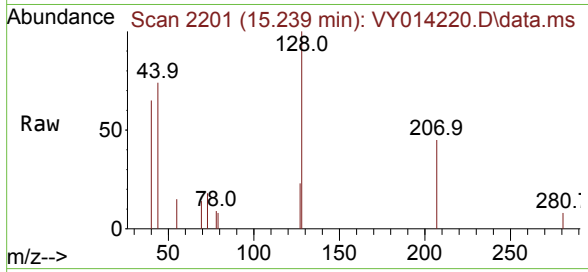
Tgt Ion: 105 Resp: 653  
Ion Ratio Lower Upper  
105 100  
120 47.8 22.2 66.6





#95  
Naphthalene  
Concen: 3.568 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY014220.D  
Acq: 16 Jun 2023 21:52

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-10-GRAB-7RE



Tgt Ion:128 Resp: 942  
Ion Ratio Lower Upper  
128 100  
127 12.0 10.8 16.2  
129 2.7 8.6 13.0#

