

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031323\  
 Data File : VY012926.D  
 Acq On : 13 Mar 2023 14:52  
 Operator : KP/MD  
 Sample : 01898-05  
 Misc : 5.91g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-1-GRAB-7

Quant Time: Mar 14 01:26:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 03 01:13:13 2023  
 Response via : Initial Calibration

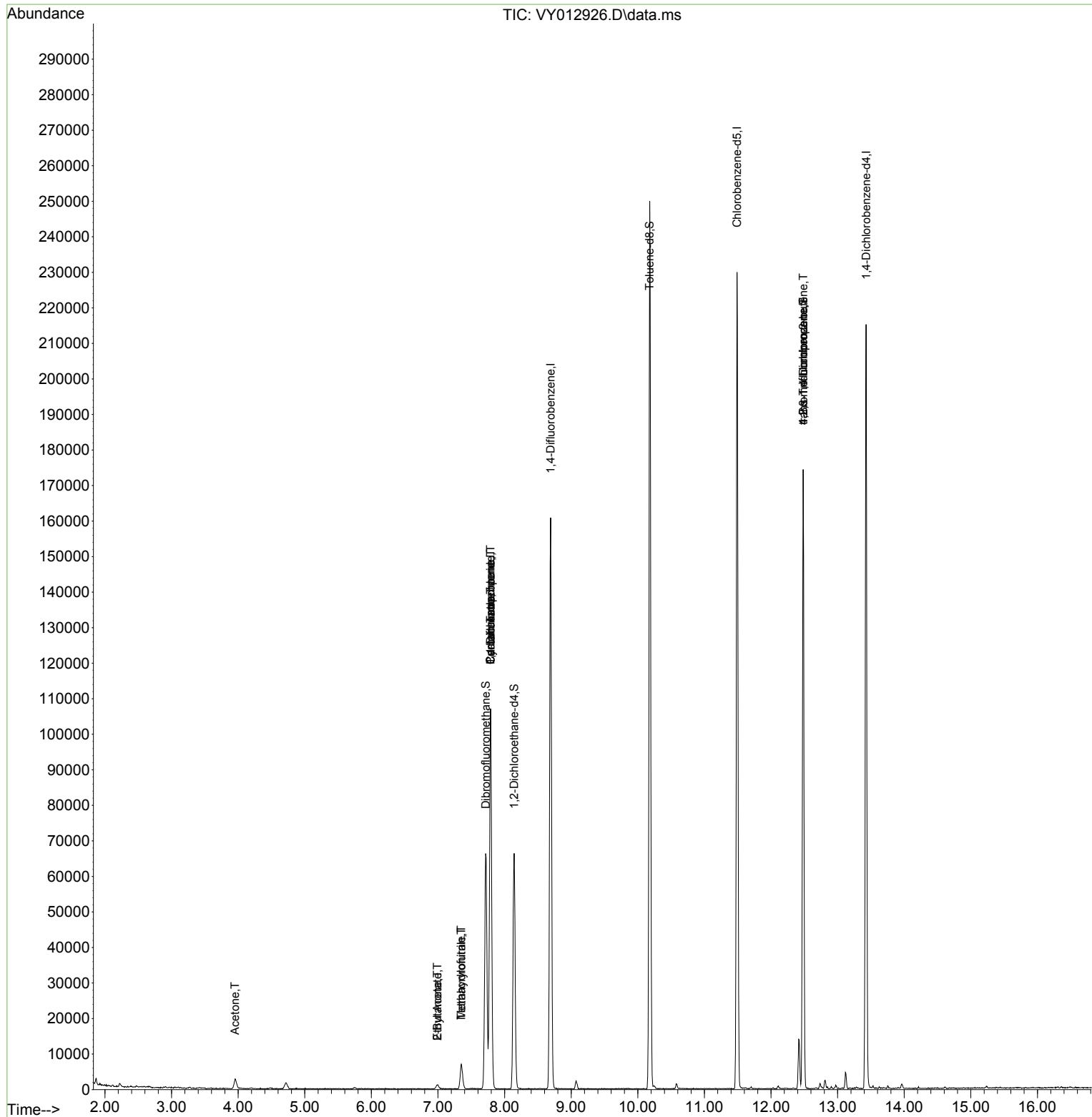
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789     | 168   | 83391    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691     | 114   | 137826   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489    | 117   | 123747   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428    | 152   | 55669    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.142     | 65    | 51700    | 62.442    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 124.880% |          |
| 35) Dibromofluoromethane      | 7.716     | 113   | 45833    | 55.102    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 110.200% |          |
| 50) Toluene-d8                | 10.179    | 98    | 163375   | 53.727    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 107.460% |          |
| 62) 4-Bromofluorobenzene      | 12.483    | 95    | 50302    | 49.011    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 98.020%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 16) Acetone                   | 3.954     | 43    | 4917     | 15.130    | ug/l       | 97       |
| 20) Methylene Chloride        | 4.716     | 84    | 1268     | Below Cal |            | 89       |
| 25) 2-Butanone                | 6.990     | 43    | 2186     | 5.431     | ug/l       | 97       |
| 29) Tetrahydrofuran           | 7.350     | 42    | 5554     | 22.878    | ug/l       | 98       |
| 31) Cyclohexane               | 7.789     | 56    | 1760     | 1.110     | ug/l #     | 6        |
| 36) 1,1-Dichloropropene       | 7.789     | 75    | 6137     | 4.403     | ug/l #     | 49       |
| 37) Ethyl Acetate             | 6.990     | 43    | 2186     | 2.488     | ug/l #     | 69       |
| 38) Carbon Tetrachloride      | 7.789     | 117   | 8031     | 5.579     | ug/l #     | 17       |
| 41) Methacrylonitrile         | 7.350     | 41    | 3036     | 6.414     | ug/l #     | 100      |
| 76) 1,2,3-Trichloropropane    | 12.483    | 75    | 26532    | 39.911    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483    | 75    | 26532    | 82.697    | ug/l #     | 13       |
| -----                         |           |       |          |           |            |          |

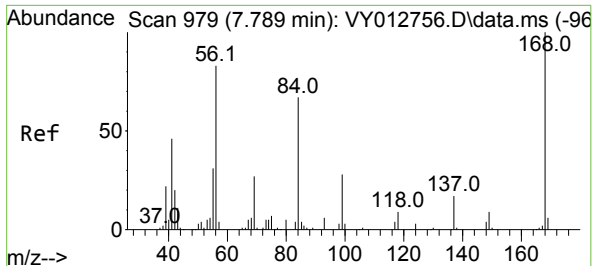
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY031323\  
Data File : VY012926.D  
Acq On : 13 Mar 2023 14:52  
Operator : KP/MD  
Sample : 01898-05  
Misc : 5.91g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-1-GRAB-7

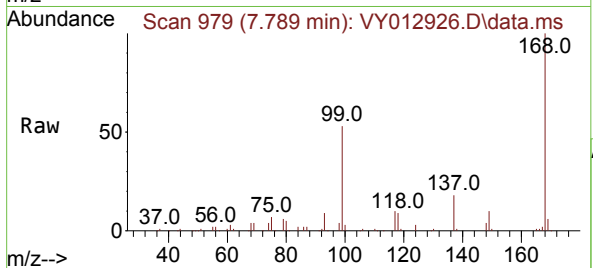
Quant Time: Mar 14 01:26:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 03 01:13:13 2023  
Response via : Initial Calibration



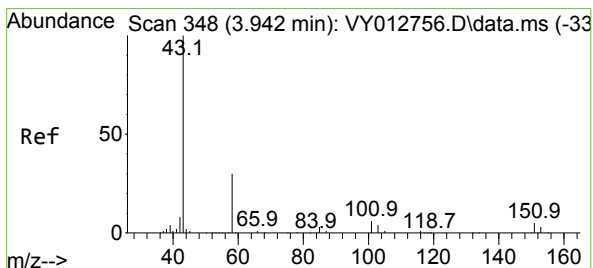
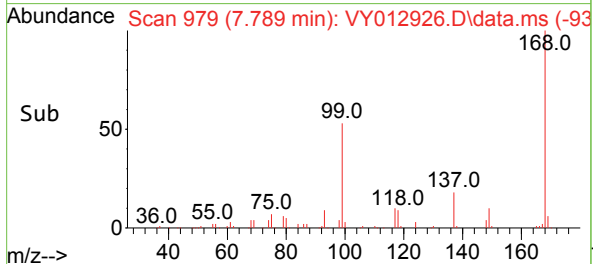
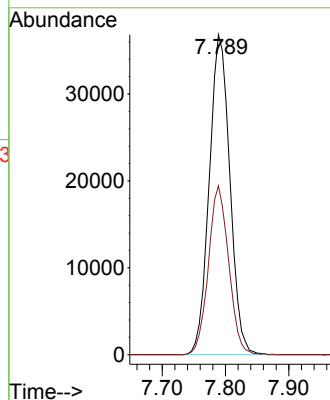


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-1-GRAB-7

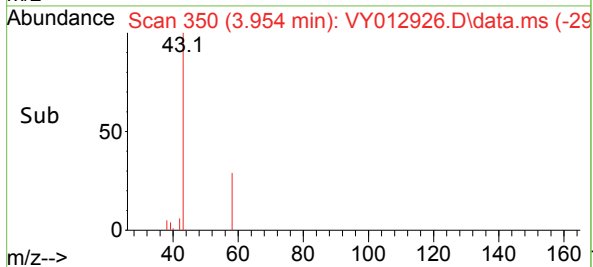
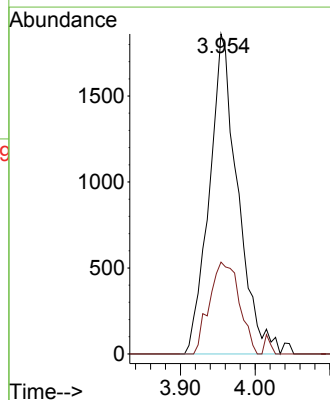
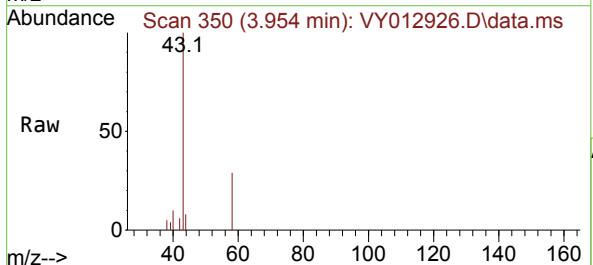


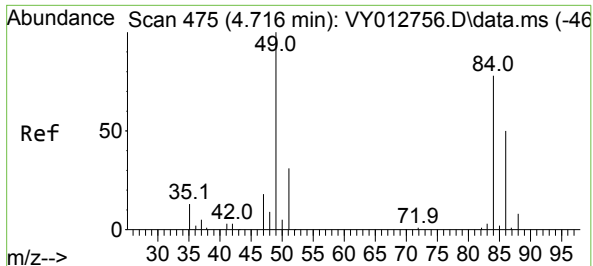
Tgt Ion:168 Resp: 83391  
Ion Ratio Lower Upper  
168 100  
99 52.8 41.7 62.5



#16  
Acetone  
Concen: 15.130 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.012 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

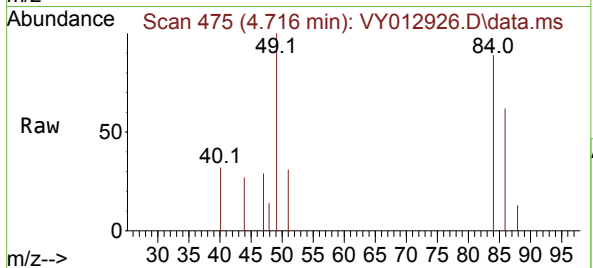
Tgt Ion: 43 Resp: 4917  
Ion Ratio Lower Upper  
43 100  
58 28.7 24.2 36.2





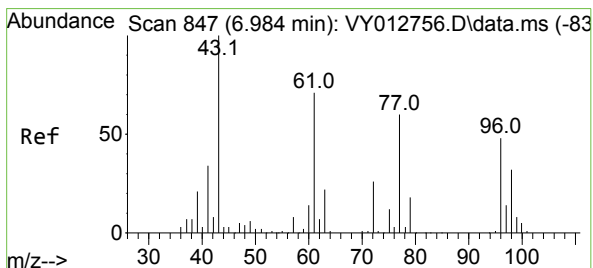
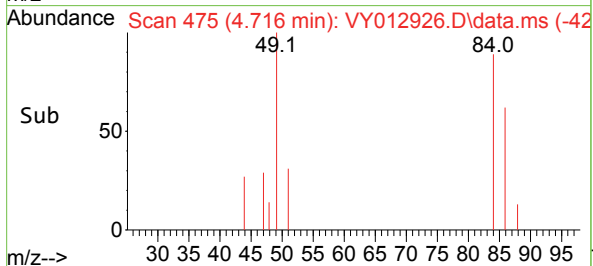
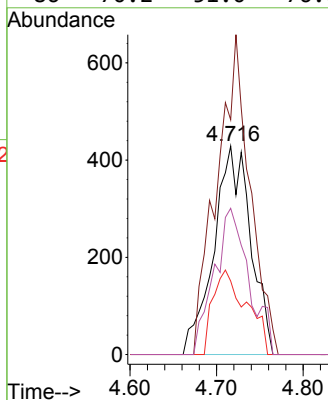
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-1-GRAB-7



Tgt Ion: 84 Resp: 1268

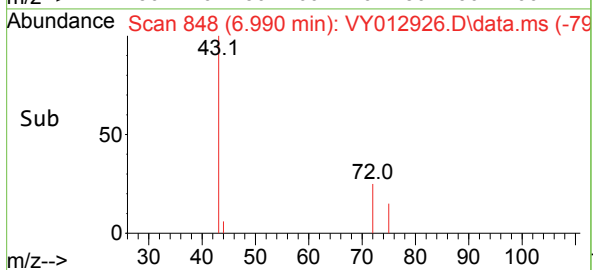
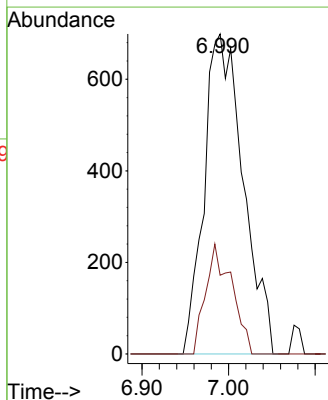
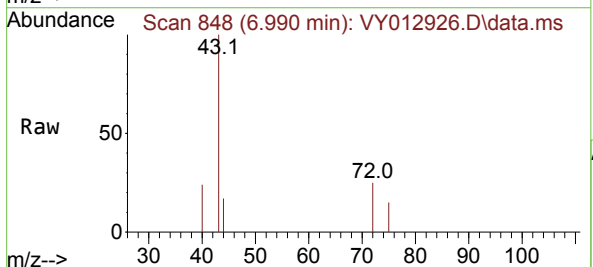
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 112.6 | 102.6 | 154.0 |
| 51  | 35.2  | 31.9  | 47.9  |
| 86  | 70.2  | 51.0  | 76.6  |

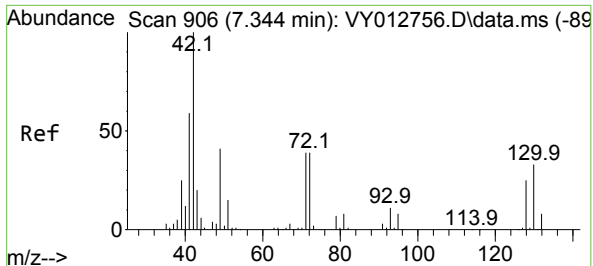


#25  
2-Butanone  
Concen: 5.431 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

Tgt Ion: 43 Resp: 2186

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 24.6  | 21.0  | 31.4  |





#29

Tetrahydrofuran

Concen: 22.878 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-1-GRAB-7

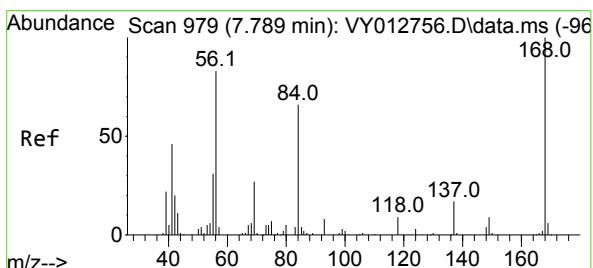
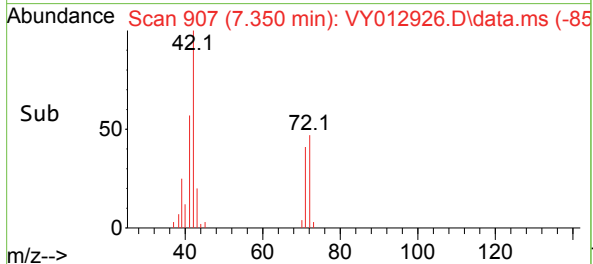
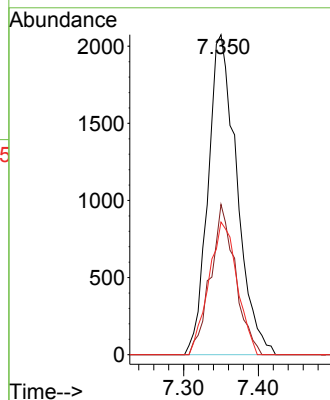
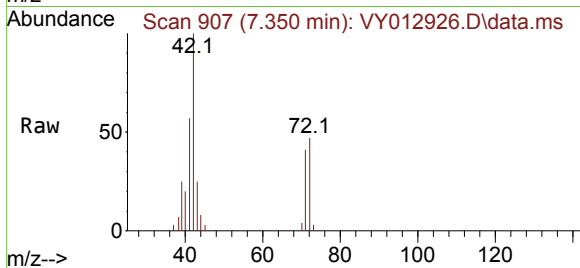
Tgt Ion: 42 Resp: 5554

Ion Ratio Lower Upper

42 100

72 40.6 32.3 48.5

71 40.8 30.3 45.5



#31

Cyclohexane

Concen: 1.110 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.000 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

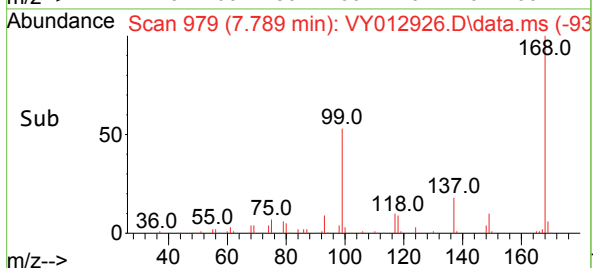
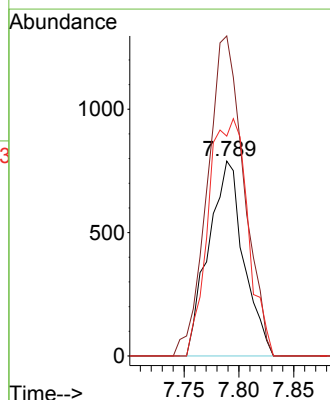
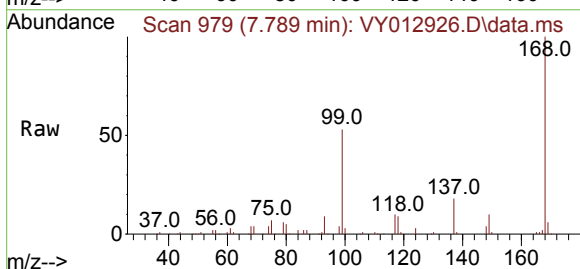
Tgt Ion: 56 Resp: 1760

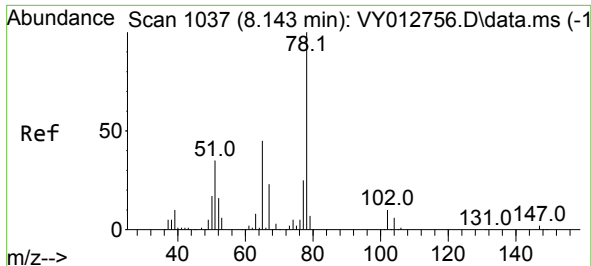
Ion Ratio Lower Upper

56 100

69 164.2 25.7 38.5#

84 112.8 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 62.442 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. -0.001 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

Instrument :

MSVOA\_Y

ClientSampleId :

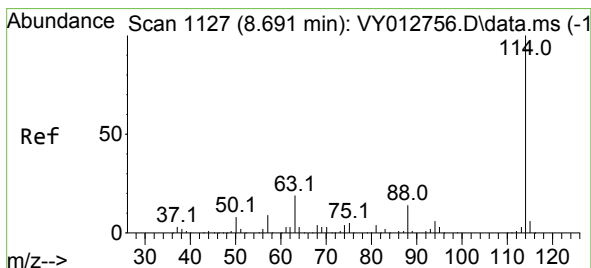
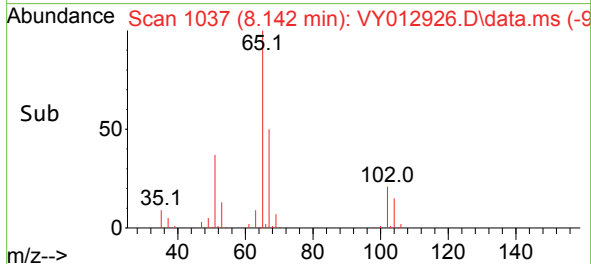
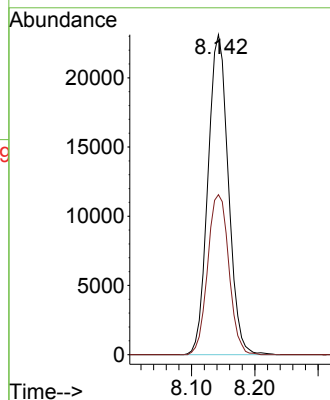
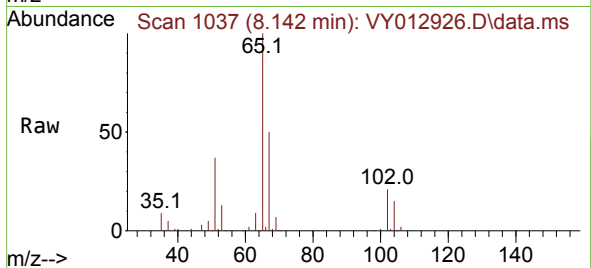
TOTAL-VOC-1-GRAB-7

Tgt Ion: 65 Resp: 51700

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

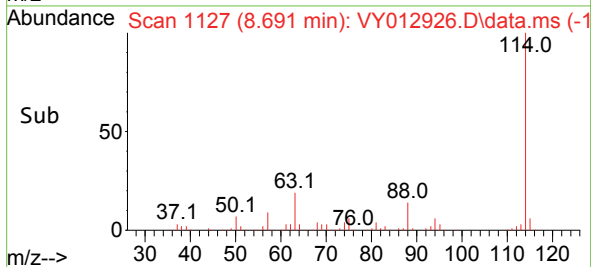
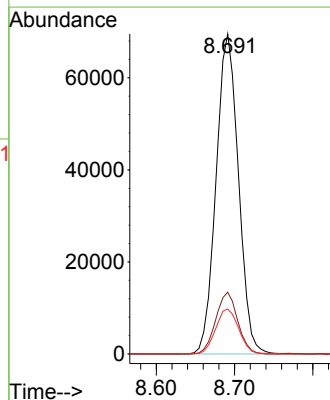
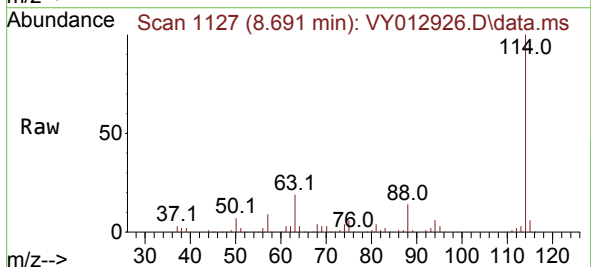
Tgt Ion: 114 Resp: 137826

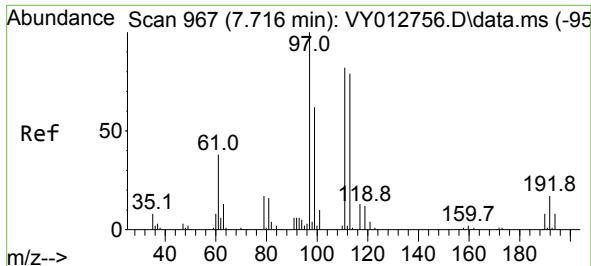
Ion Ratio Lower Upper

114 100

63 19.3 0.0 37.4

88 14.1 0.0 28.6

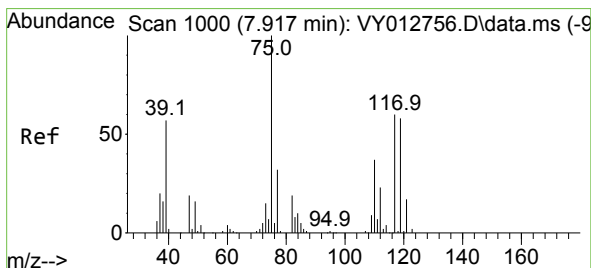
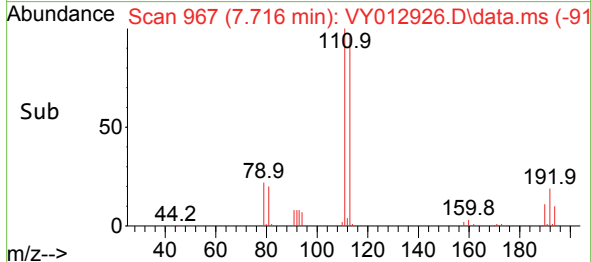
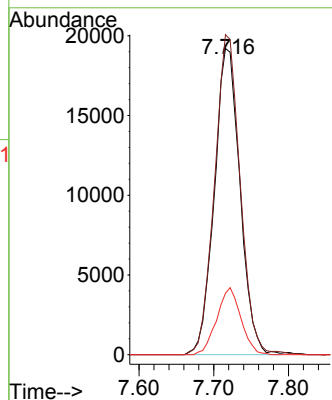
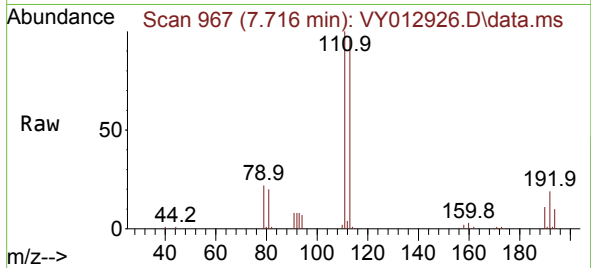




#35  
Dibromofluoromethane  
Concen: 55.102 ug/l  
RT: 7.716 min Scan# 910  
Delta R.T. -0.000 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

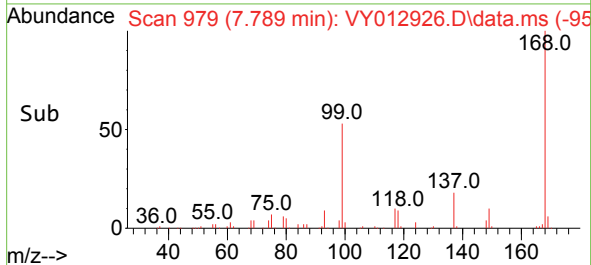
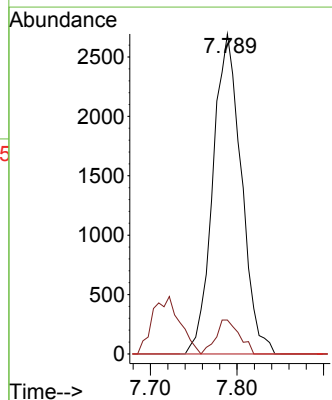
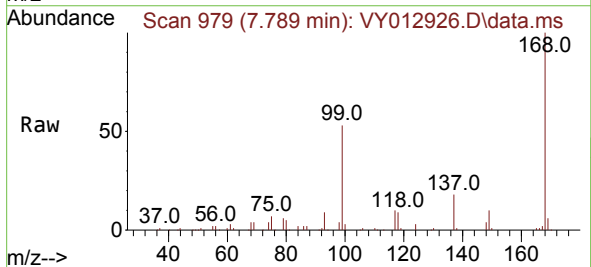
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-1-GRAB-7

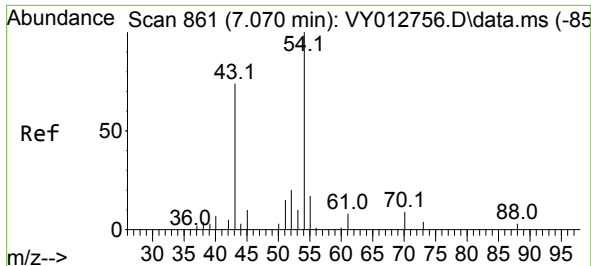
Tgt Ion:113 Resp: 45833  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.2 123.2  
192 20.6 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.403 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.128 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

Tgt Ion: 75 Resp: 6137  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.3#  
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 2.488 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY012926.D

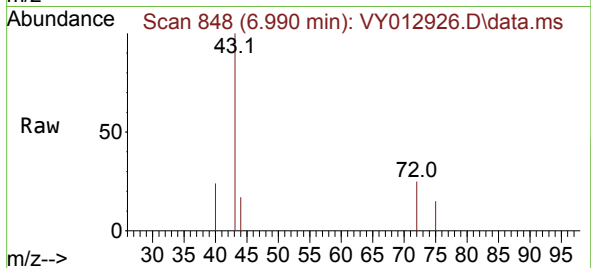
Acq: 13 Mar 2023 14:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-1-GRAB-7



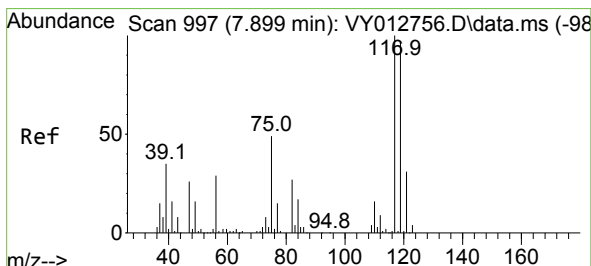
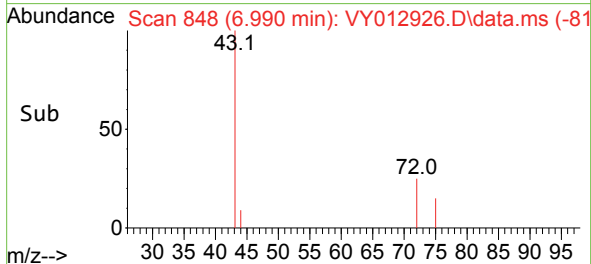
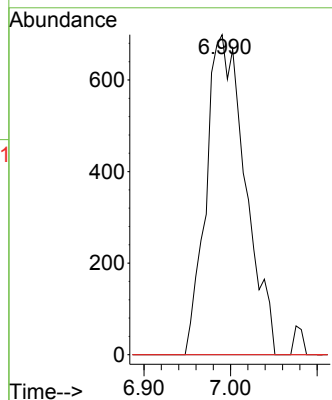
Tgt Ion: 43 Resp: 2186

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 5.579 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

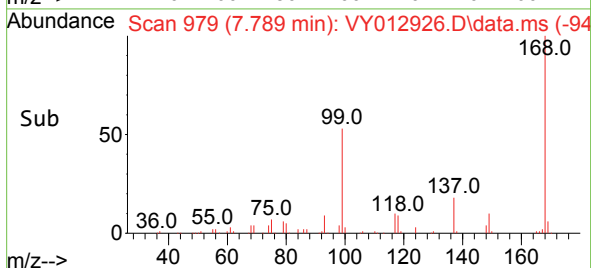
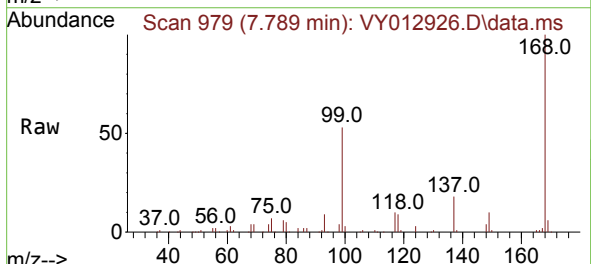
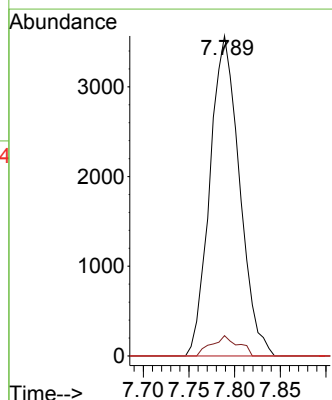
Tgt Ion: 117 Resp: 8031

Ion Ratio Lower Upper

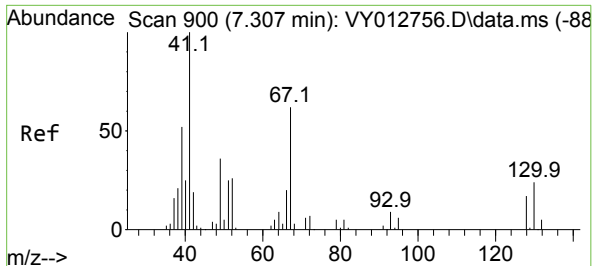
117 100

119 6.3 77.2 115.8#

121 0.0 24.7 37.1#



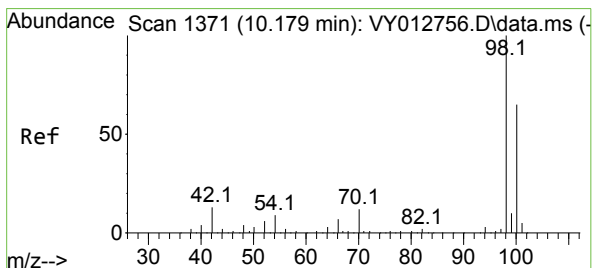
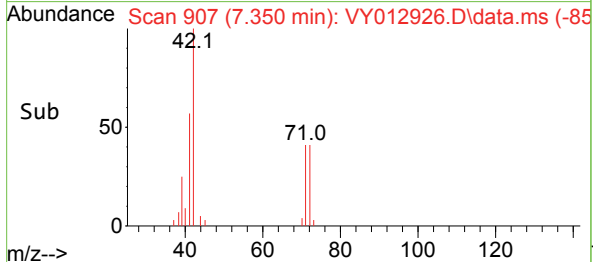
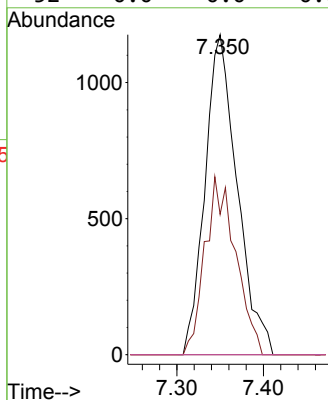
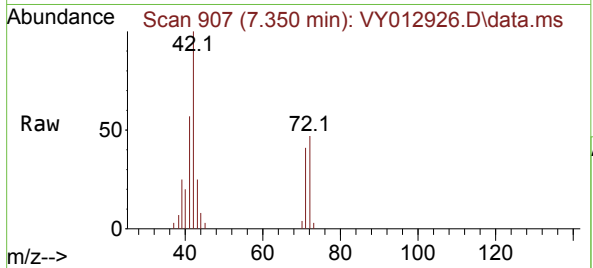




#41  
Methacrylonitrile  
Concen: 6.414 ug/l  
RT: 7.350 min Scan# 907  
Delta R.T. 0.043 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

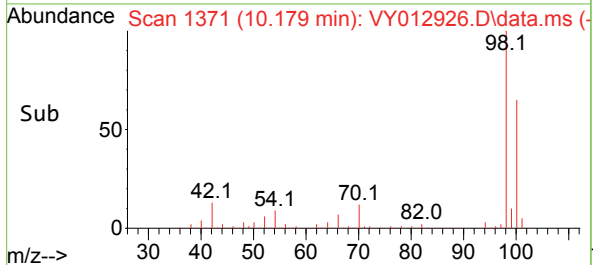
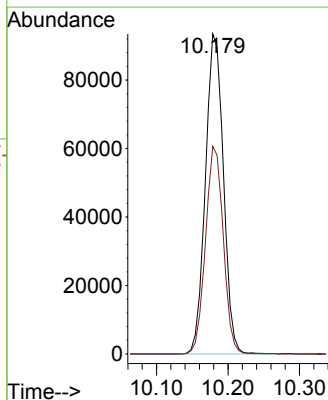
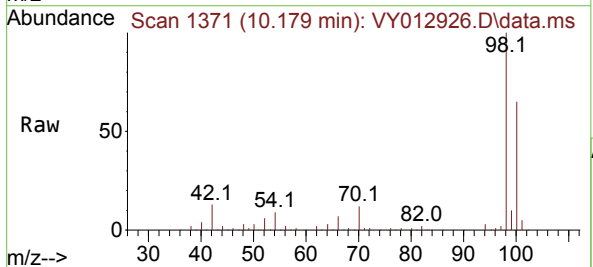
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-1-GRAB-7

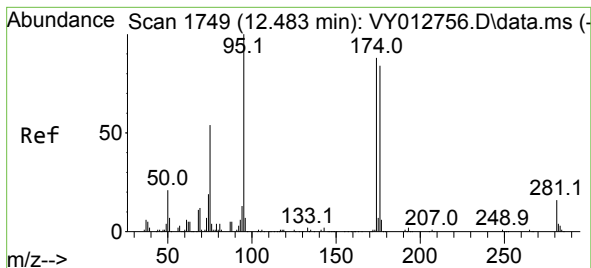
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 3036  |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 53.0     | 0.0 0.0#    |
| 67 0.0      | 0.0 0.0     |
| 52 0.0      | 0.0 0.0     |



#50  
Toluene-d8  
Concen: 53.727 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012926.D  
Acq: 13 Mar 2023 14:52

|             |              |
|-------------|--------------|
| Tgt Ion: 98 | Resp: 163375 |
| Ion Ratio   | Lower Upper  |
| 98 100      |              |
| 100 64.1    | 50.9 76.3    |





#62

4-Bromofluorobenzene

Concen: 49.011 ug/l

RT: 12.483 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY012926.D

Acq: 13 Mar 2023 14:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-1-GRAB-7

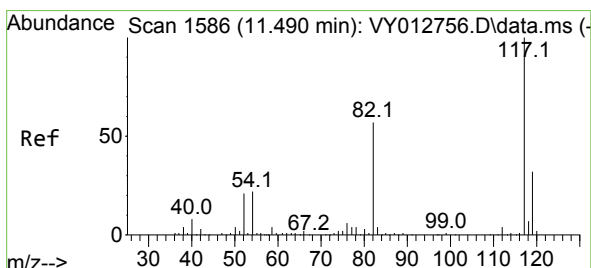
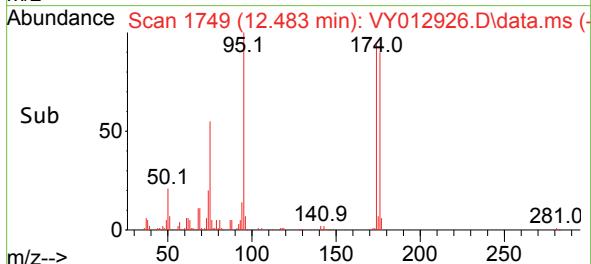
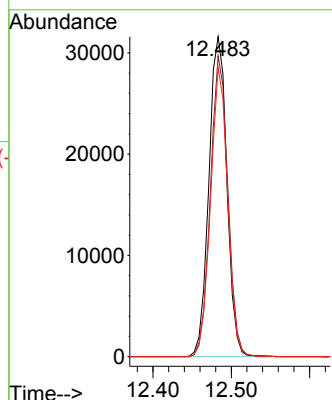
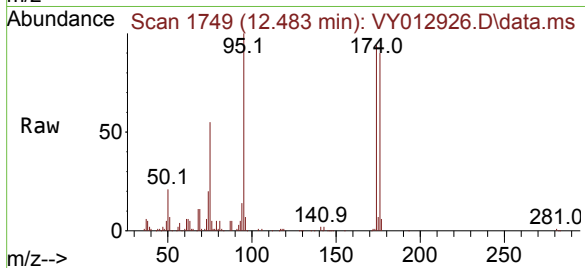
Tgt Ion: 95 Resp: 50302

Ion Ratio Lower Upper

95 100

174 91.6 0.0 176.6

176 86.0 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: VY012926.D

Acq: 13 Mar 2023 14:52

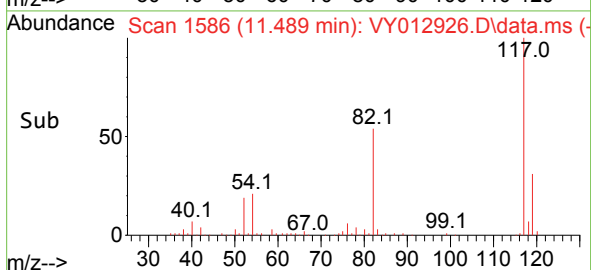
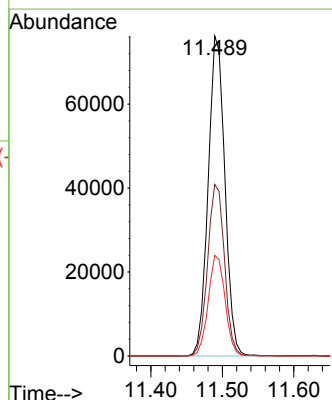
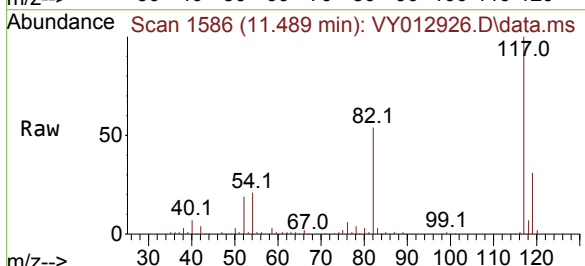
Tgt Ion: 117 Resp: 123747

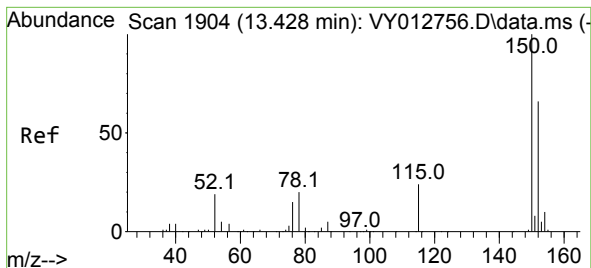
Ion Ratio Lower Upper

117 100

82 53.6 45.4 68.0

119 31.5 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY012926.D

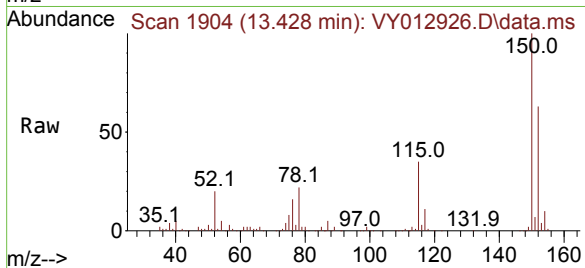
Acq: 13 Mar 2023 14:52

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-1-GRAB-7



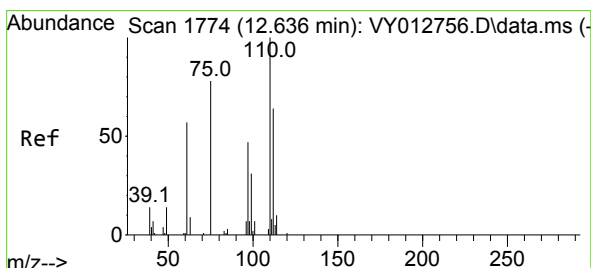
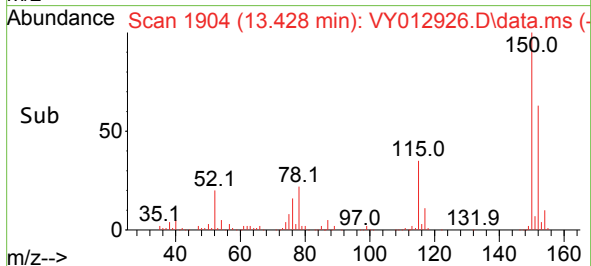
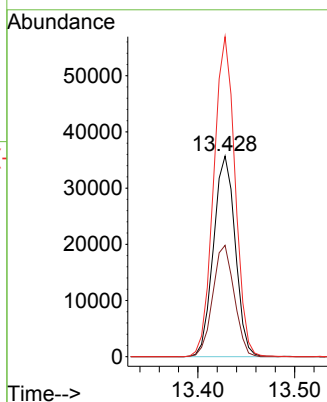
Tgt Ion:152 Resp: 55669

Ion Ratio Lower Upper

152 100

115 54.9 27.1 81.3

150 157.0 0.0 347.8



#76

1,2,3-Trichloropropane

Concen: 39.911 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.153 min

Lab File: VY012926.D

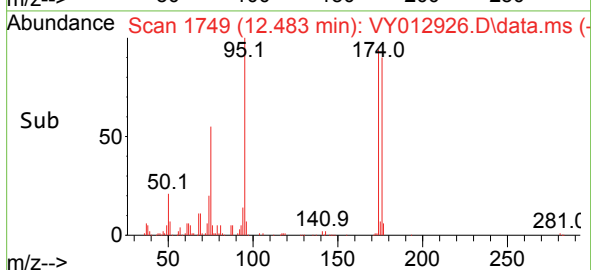
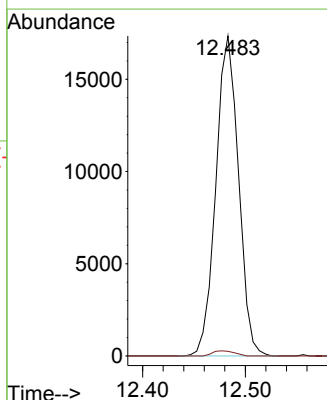
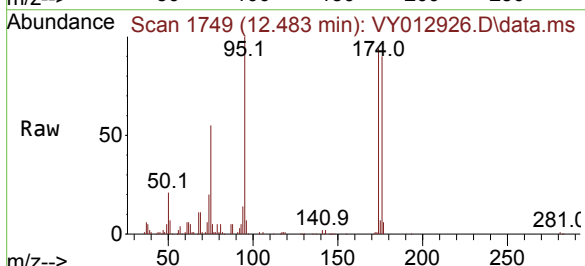
Acq: 13 Mar 2023 14:52

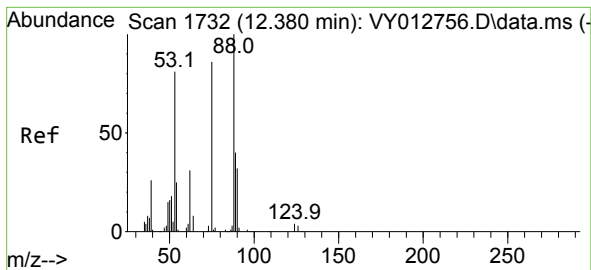
Tgt Ion: 75 Resp: 26532

Ion Ratio Lower Upper

75 100

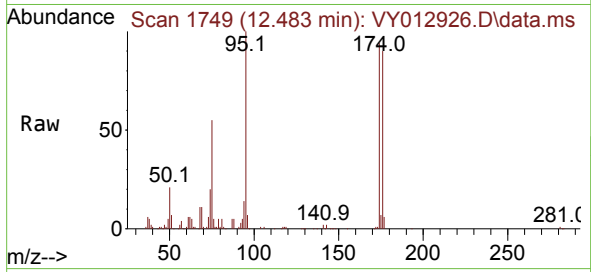
77 1.6 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 82.697 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY012926.D  
 Acq: 13 Mar 2023 14:52

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-1-GRAB-7



Tgt Ion: 75 Resp: 26532  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 73.4 110.0#  
 89 0.0 36.6 55.0#

