

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061423\  
 Data File : VY014169.D  
 Acq On : 14 Jun 2023 21:20  
 Operator : KP/MD  
 Sample : 03223-23  
 Misc : 7.49g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SB-03-GRAB-6

Quant Time: Jun 15 01:48:01 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

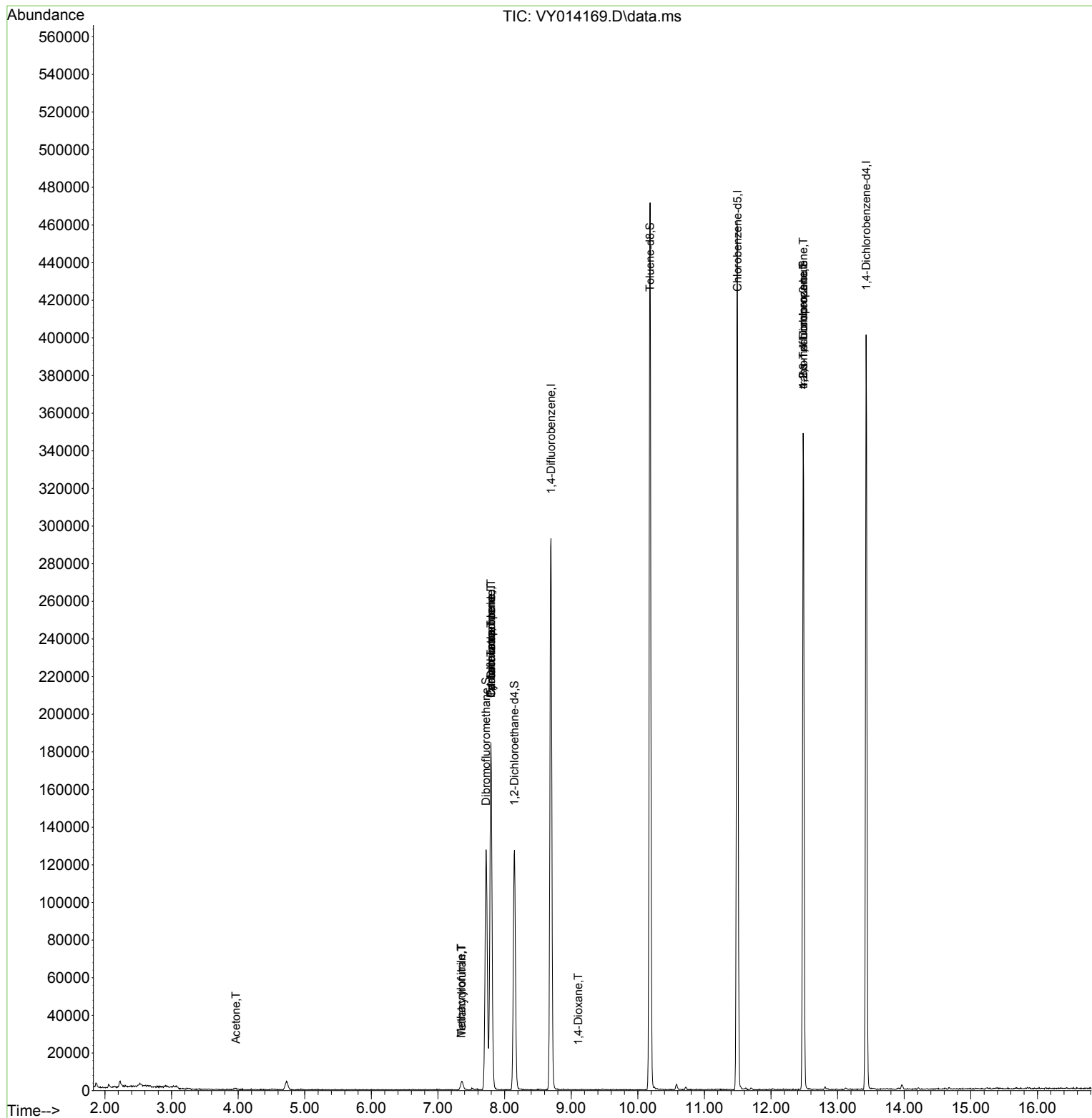
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 140046   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 245910   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.495 | 117   | 248856   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 101988   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.148  | 65    | 108123   | 55.443    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 110.880% |
| 35) Dibromofluoromethane      | 7.722  | 113   | 85708    | 49.146    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 98.300%  |
| 50) Toluene-d8                | 10.185 | 98    | 303705   | 46.581    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 93.160%  |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 96583    | 41.702    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 83.400%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.972  | 59    | 59       | Below Cal | #      | 89       |
| 16) Acetone                   | 3.966  | 43    | 1105     | 1.880     | ug/l   | 98       |
| 20) Methylene Chloride        | 4.734  | 84    | 3198     | Below Cal |        | 96       |
| 29) Tetrahydrofuran           | 7.356  | 42    | 3575     | 7.791     | ug/l   | 92       |
| 31) Cyclohexane               | 7.795  | 56    | 3161     | 1.210     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 10985    | 4.040     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 14370    | 4.580     | ug/l # | 18       |
| 41) Methacrylonitrile         | 7.350  | 41    | 2355     | 2.460     | ug/l # | 44       |
| 49) 1,4-Dioxane               | 9.105  | 88    | 19       | 1.183     | ug/l # | 36       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 53360    | 39.879    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 53360    | 86.202    | ug/l # | 11       |
| -----                         |        |       |          |           |        |          |

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

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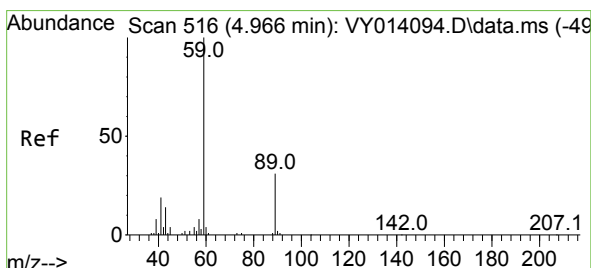
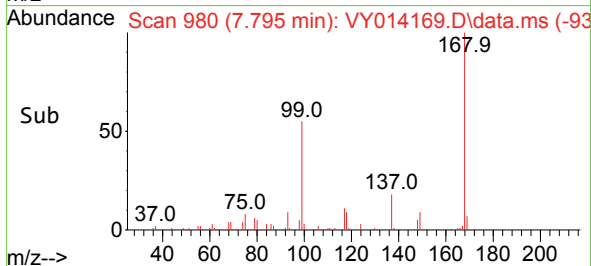
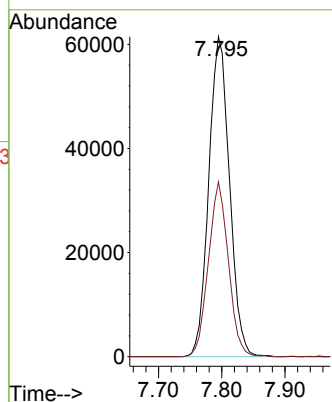
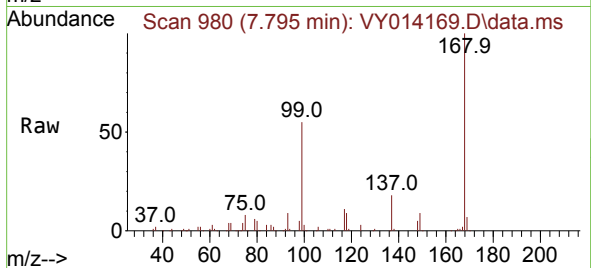




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

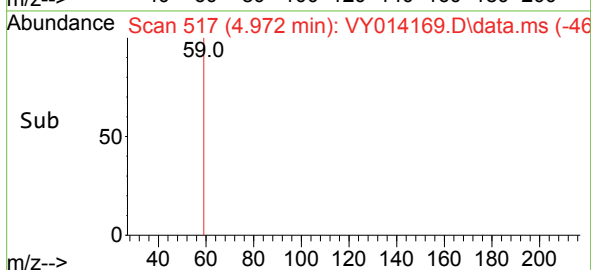
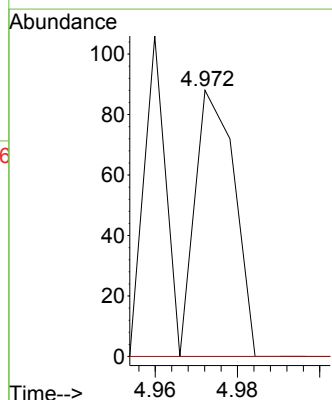
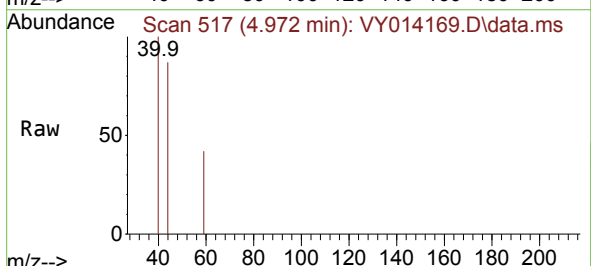
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-03-GRAB-6

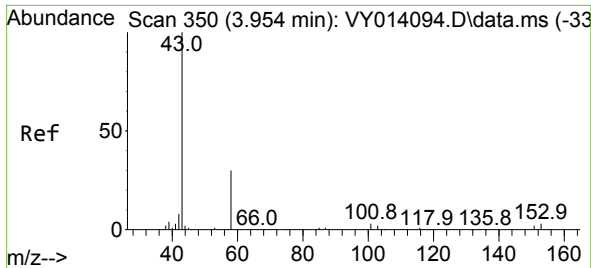
Tgt Ion:168 Resp: 140046  
Ion Ratio Lower Upper  
168 100  
99 54.6 43.4 65.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.972 min Scan# 517  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

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





#16

Acetone

Concen: 1.880 ug/l

RT: 3.966 min Scan# 3

Delta R.T. 0.012 min

Lab File: VY014169.D

Acq: 14 Jun 2023 21:20

Instrument :

MSVOA\_Y

ClientSampleId :

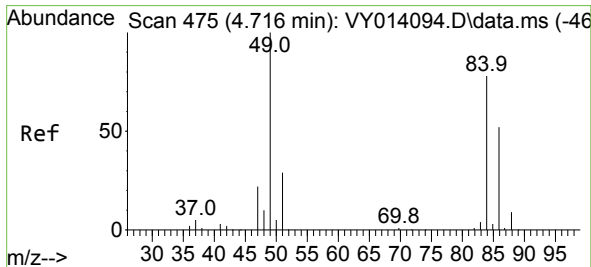
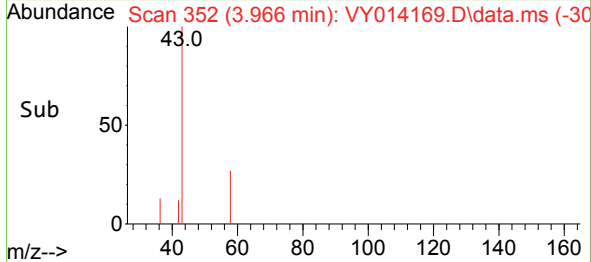
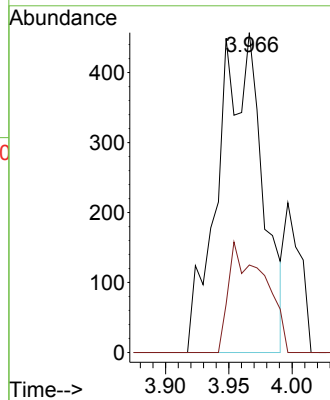
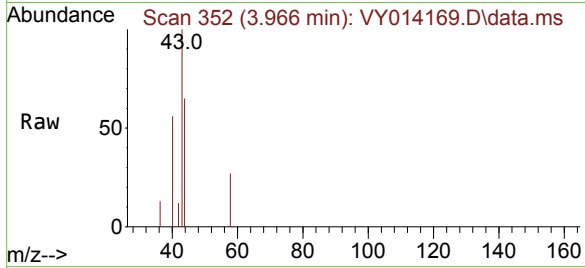
TOTAL-VOC-SB-03-GRAB-6

Tgt Ion: 43 Resp: 1105

Ion Ratio Lower Upper

43 100

58 27.4 22.7 34.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.734 min Scan# 478

Delta R.T. 0.018 min

Lab File: VY014169.D

Acq: 14 Jun 2023 21:20

Tgt Ion: 84 Resp: 3198

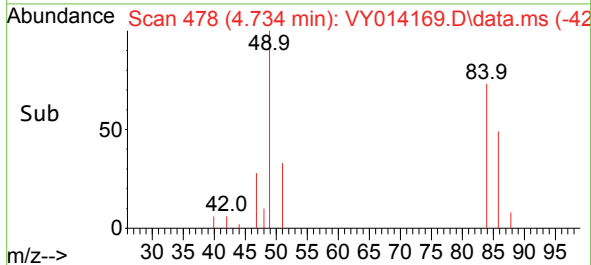
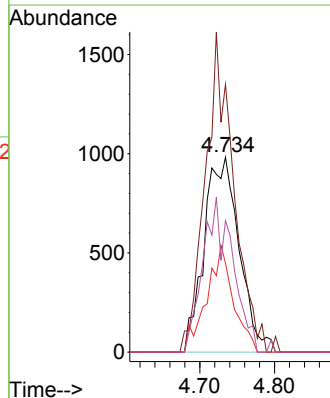
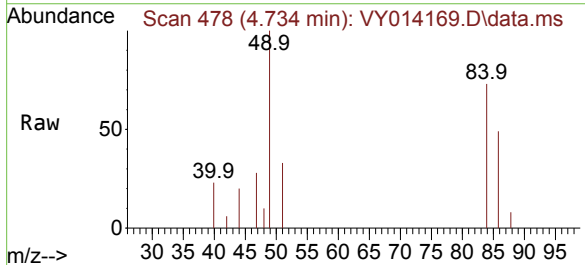
Ion Ratio Lower Upper

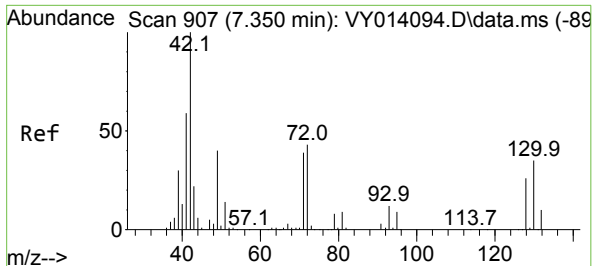
84 100

49 137.5 106.9 160.3

51 45.5 33.2 49.8

86 67.4 51.0 76.6





#29

Tetrahydrofuran

Concen: 7.791 ug/l

RT: 7.356 min Scan# 90

Delta R.T. 0.006 min

Lab File: VY014169.D

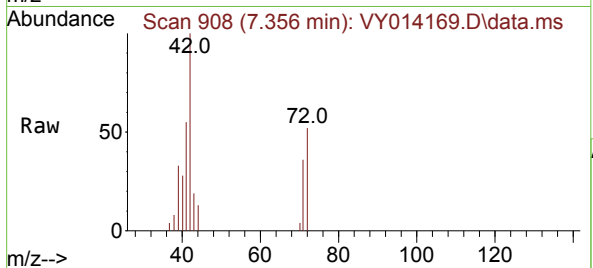
Acq: 14 Jun 2023 21:20

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-03-GRAB-6



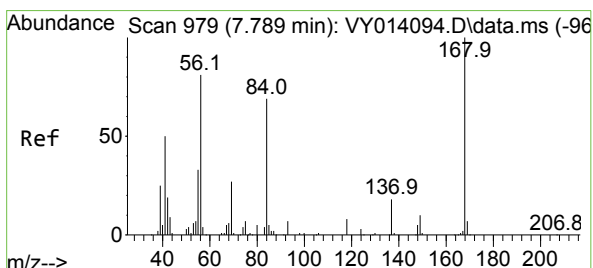
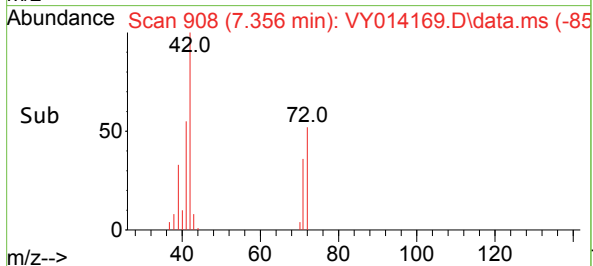
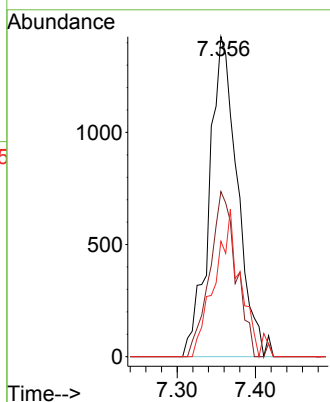
Tgt Ion: 42 Resp: 3575

Ion Ratio Lower Upper

42 100

72 48.3 32.8 49.2

71 40.8 31.0 46.4



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY014169.D

Acq: 14 Jun 2023 21:20

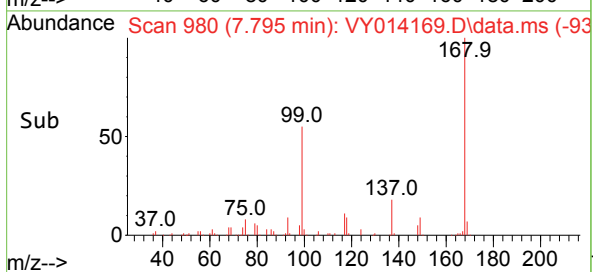
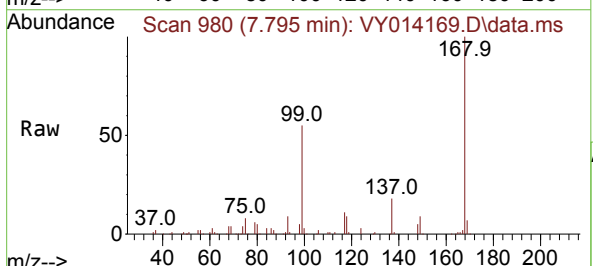
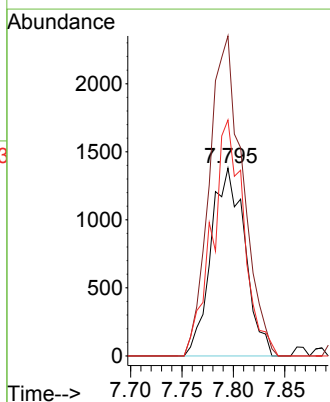
Tgt Ion: 56 Resp: 3161

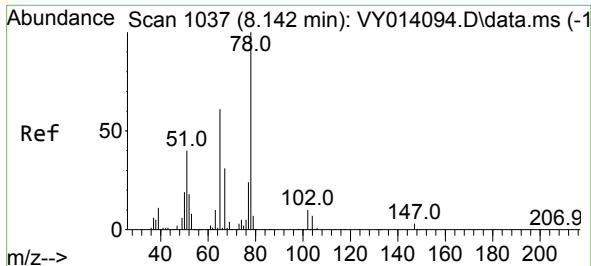
Ion Ratio Lower Upper

56 100

69 170.4 27.8 41.6#

84 125.7 66.4 99.6#

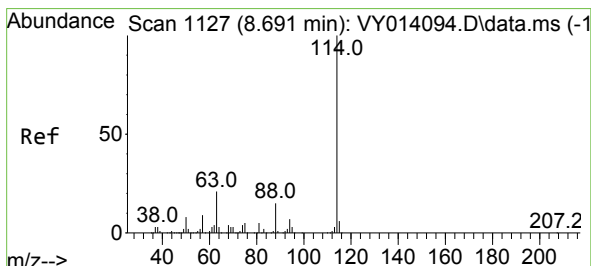
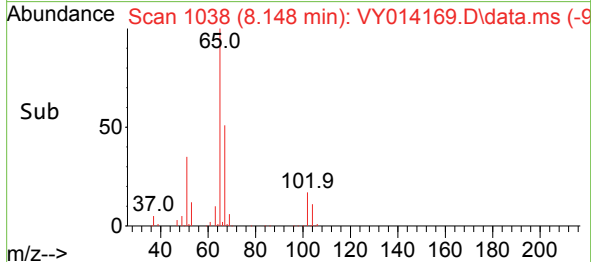
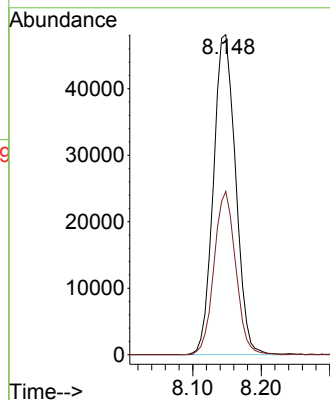
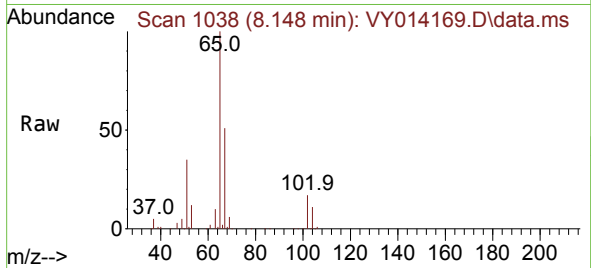




#33  
1,2-Dichloroethane-d4  
Concen: 55.443 ug/l  
RT: 8.148 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

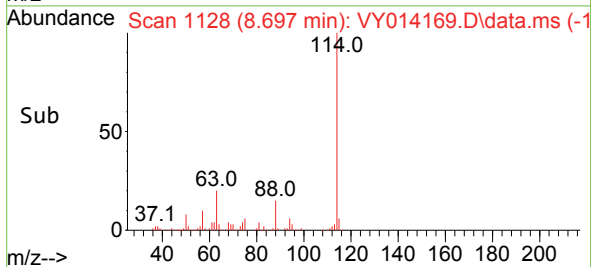
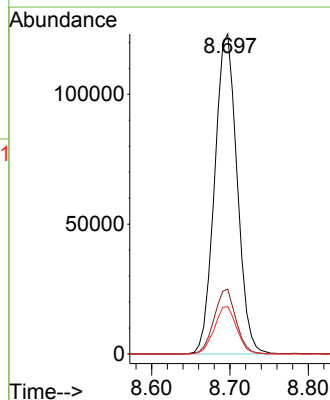
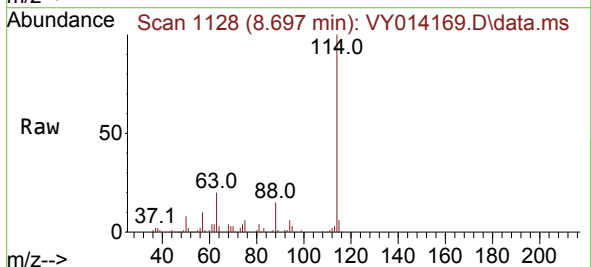
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-03-GRAB-6

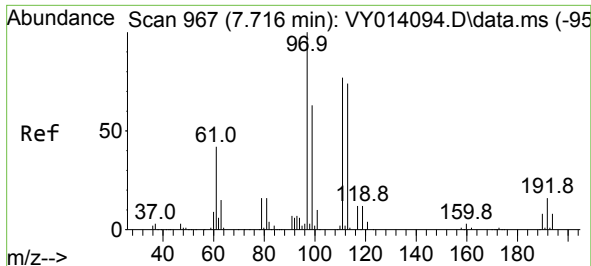
Tgt Ion: 65 Resp: 108123  
Ion Ratio Lower Upper  
65 100  
67 49.8 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

Tgt Ion: 114 Resp: 245910  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 42.4  
88 14.8 0.0 30.6

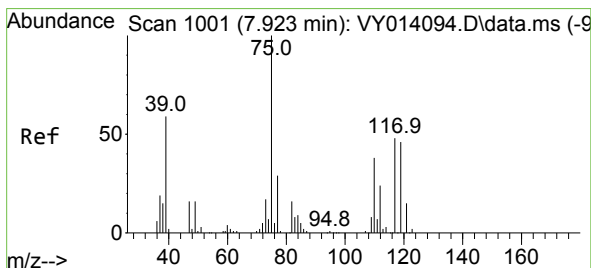
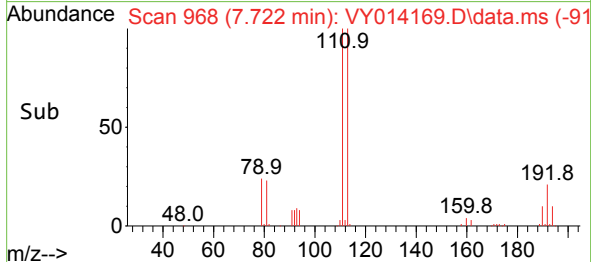
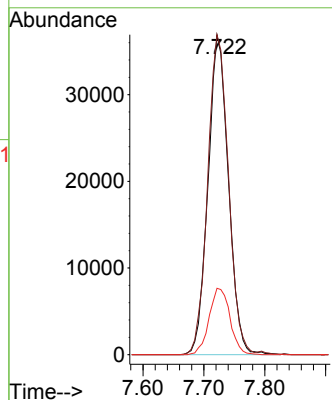
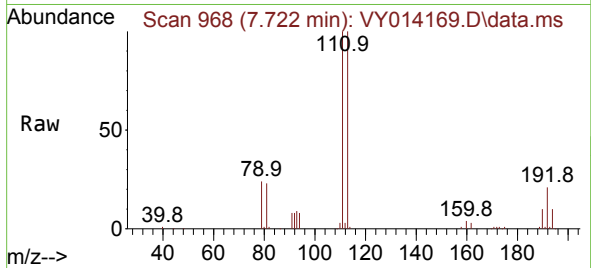




#35  
Dibromofluoromethane  
Concen: 49.146 ug/l  
RT: 7.722 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

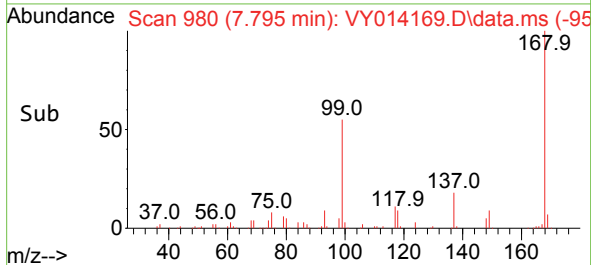
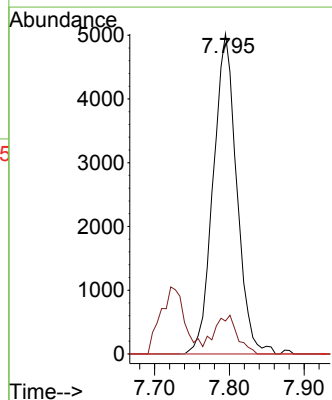
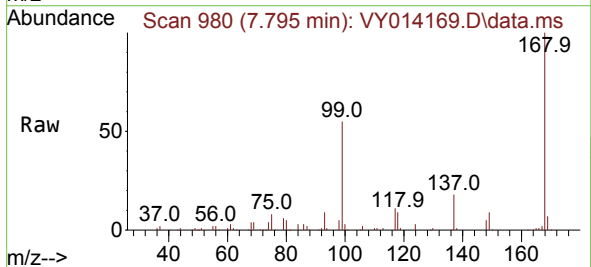
Instrument :  
MSVOA\_Y  
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TOTAL-VOC-SB-03-GRAB-6

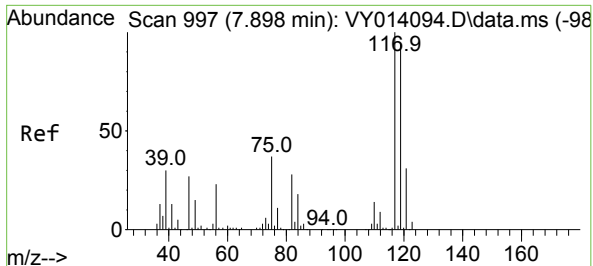
Tgt Ion:113 Resp: 85708  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.3 121.9  
192 21.3 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.040 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

Tgt Ion: 75 Resp: 10985  
Ion Ratio Lower Upper  
75 100  
110 11.9 17.8 53.5#  
77 0.0 24.4 36.6#

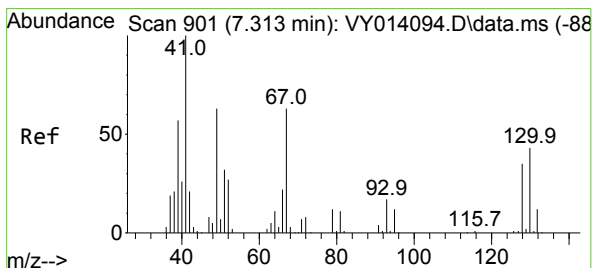
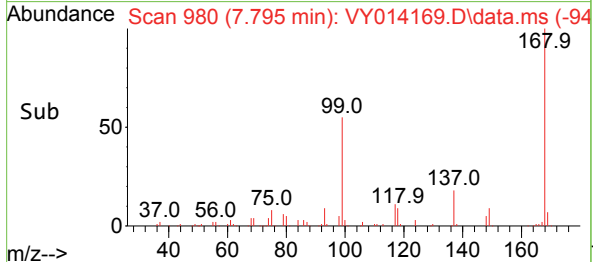
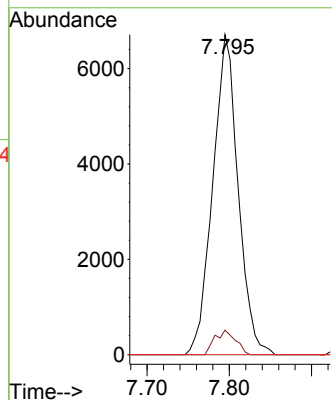
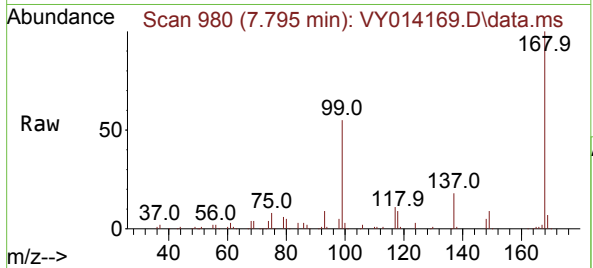




#38  
Carbon Tetrachloride  
Concen: 4.580 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.103 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

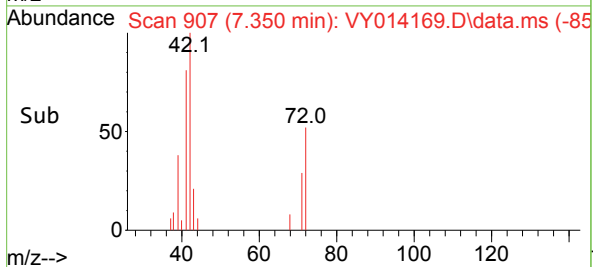
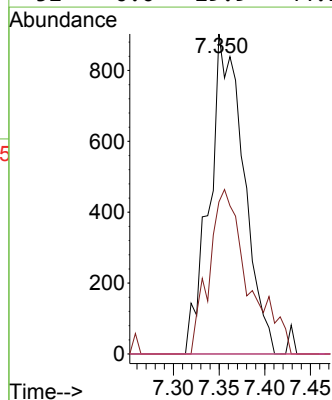
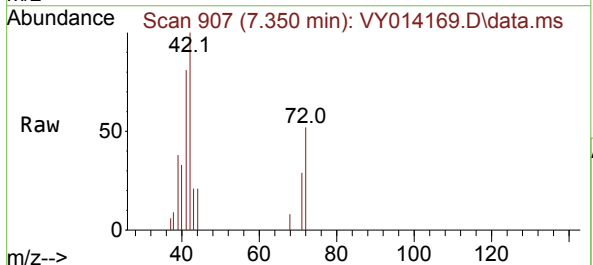
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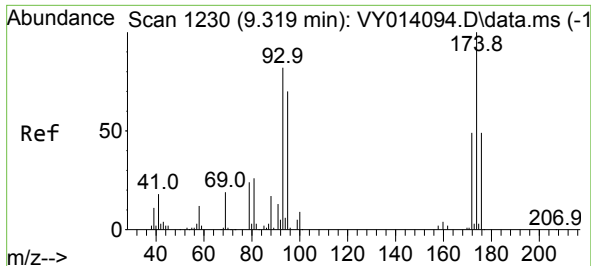
Tgt Ion:117 Resp: 14370  
Ion Ratio Lower Upper  
117 100  
119 7.6 76.4 114.6#  
121 0.0 25.8 38.6#



#41  
Methacrylonitrile  
Concen: 2.460 ug/l  
RT: 7.350 min Scan# 907  
Delta R.T. 0.037 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

Tgt Ion: 41 Resp: 2355  
Ion Ratio Lower Upper  
41 100  
39 59.4 52.1 78.1  
67 0.0 66.2 99.2#  
52 0.0 29.9 44.9#





#49

1,4-Dioxane

Concen: 1.183 ug/l

RT: 9.105 min Scan# 1195

Delta R.T. -0.214 min

Lab File: VY014169.D

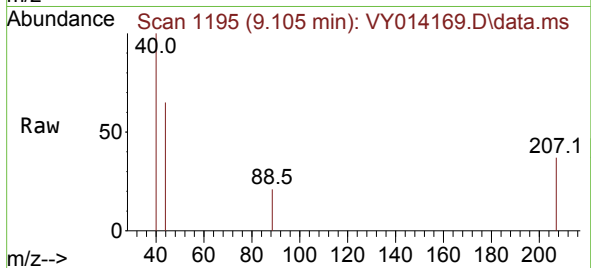
Acq: 14 Jun 2023 21:20

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-03-GRAB-6



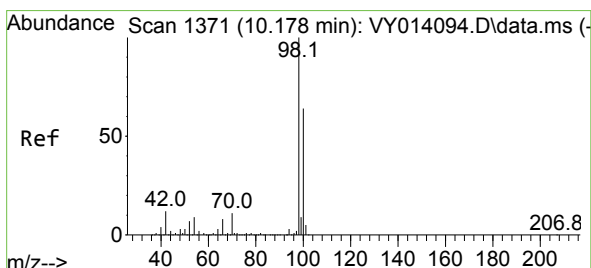
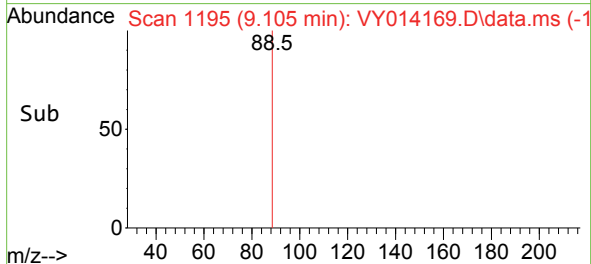
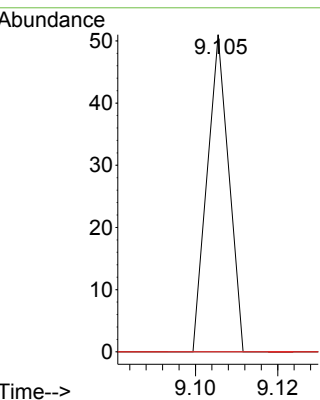
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 30.9 46.3#



#50

Toluene-d8

Concen: 46.581 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.007 min

Lab File: VY014169.D

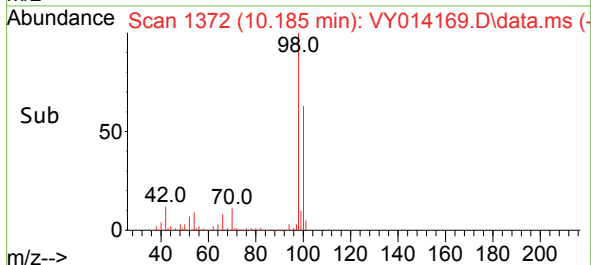
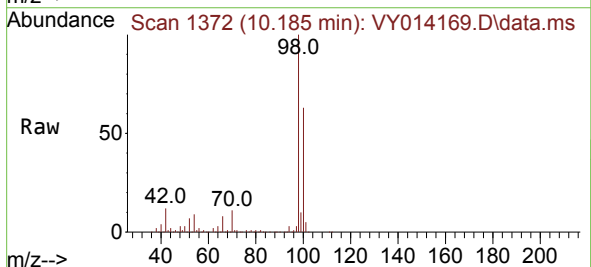
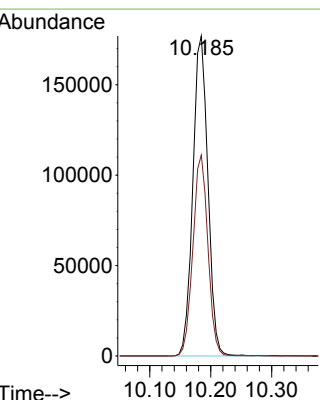
Acq: 14 Jun 2023 21:20

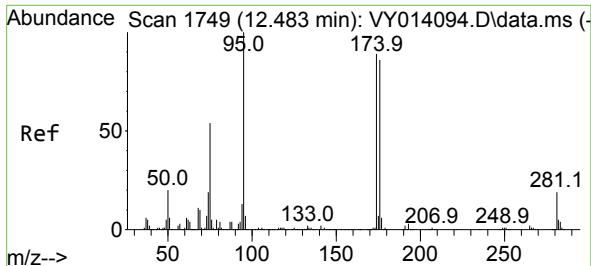
Tgt Ion: 98 Resp: 303705

Ion Ratio Lower Upper

98 100

100 62.4 50.1 75.1

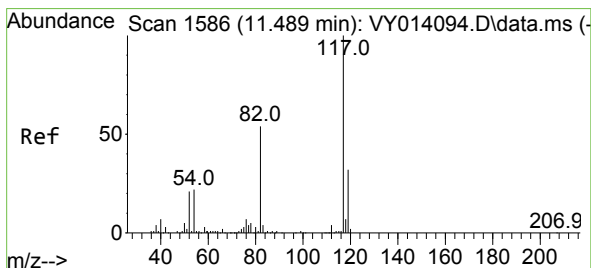
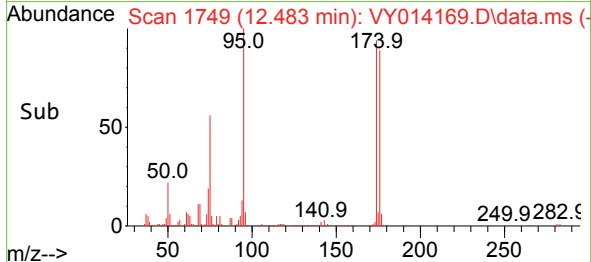
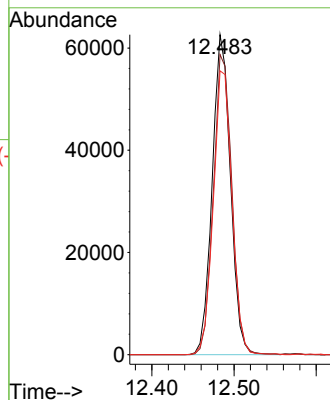
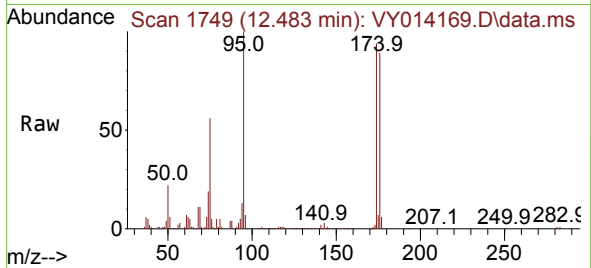




#62  
4-Bromofluorobenzene  
Concen: 41.702 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

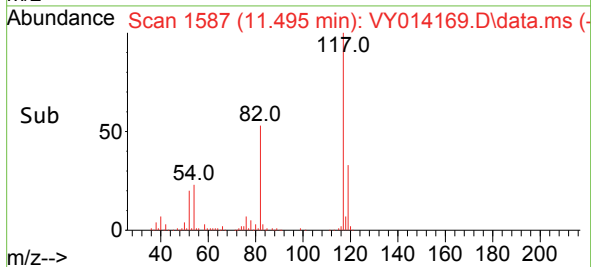
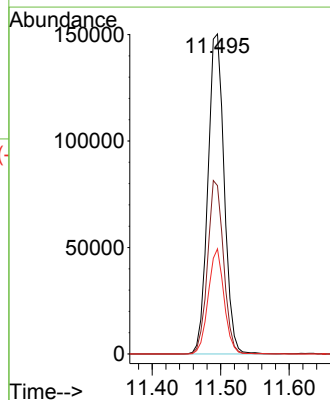
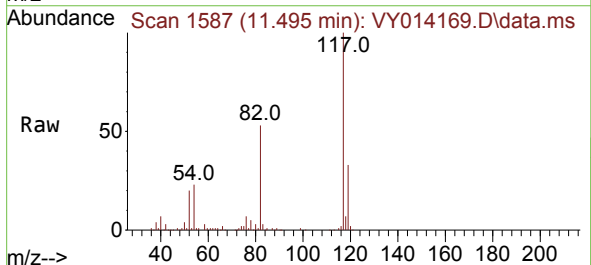
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-03-GRAB-6

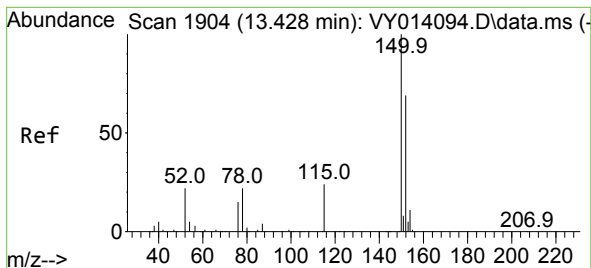
Tgt Ion: 95 Resp: 96583  
Ion Ratio Lower Upper  
95 100  
174 95.1 0.0 178.2  
176 91.1 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.495 min Scan# 1587  
Delta R.T. 0.006 min  
Lab File: VY014169.D  
Acq: 14 Jun 2023 21:20

Tgt Ion: 117 Resp: 248856  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.4 65.0  
119 32.9 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY014169.D

Acq: 14 Jun 2023 21:20

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-03-GRAB-6

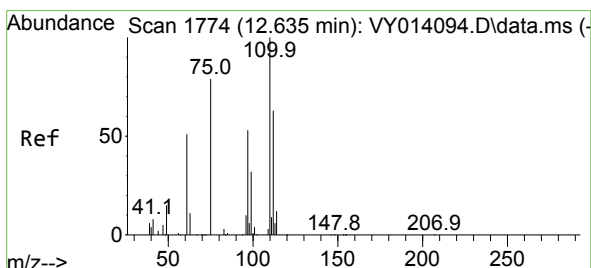
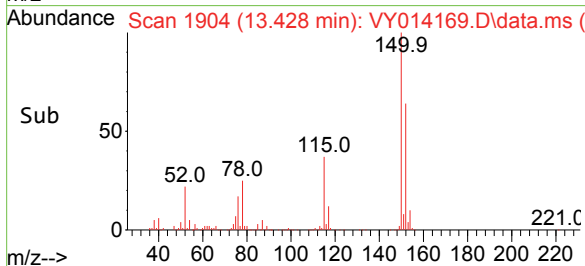
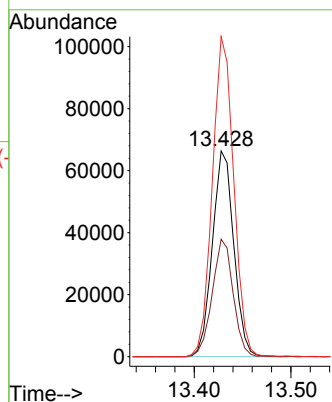
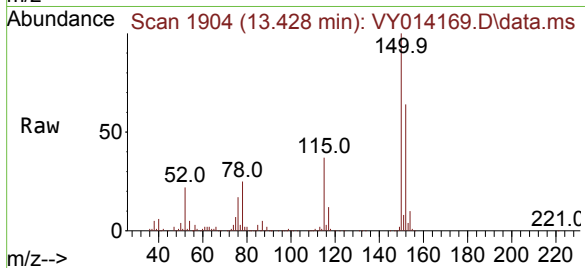
Tgt Ion:152 Resp: 101988

Ion Ratio Lower Upper

152 100

115 55.9 28.8 86.5

150 155.4 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 39.879 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY014169.D

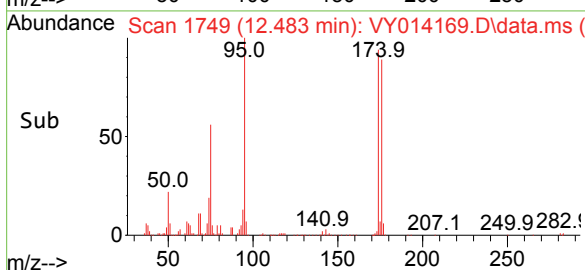
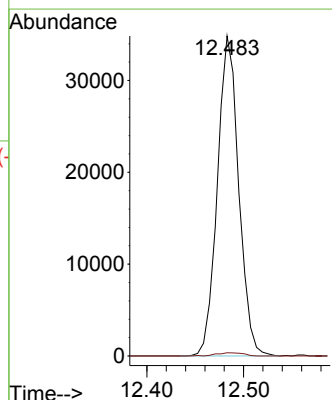
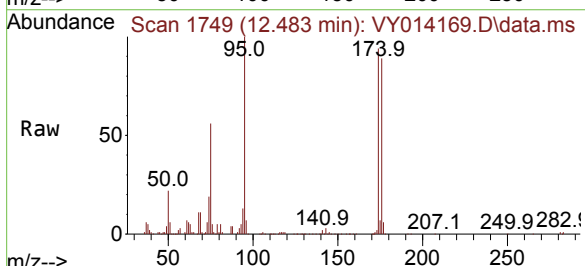
Acq: 14 Jun 2023 21:20

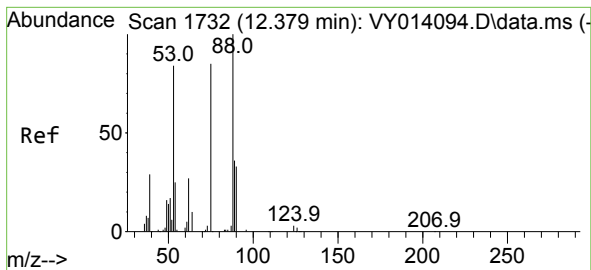
Tgt Ion: 75 Resp: 53360

Ion Ratio Lower Upper

75 100

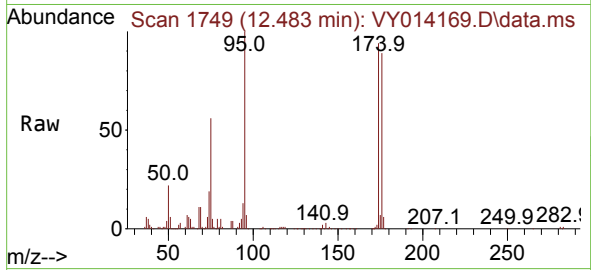
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 86.202 ug/l  
 RT: 12.483 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY014169.D  
 Acq: 14 Jun 2023 21:20

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOTAL-VOC-SB-03-GRAB-6



Tgt Ion: 75 Resp: 53360  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 77.8 116.8#  
 89 0.0 37.4 56.0#

