

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061223\  
 Data File : VY014124.D  
 Acq On : 12 Jun 2023 16:42  
 Operator : KP/MD  
 Sample : 03117-04  
 Misc : 5.84g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-2GA

Quant Time: Jun 13 05:43:55 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

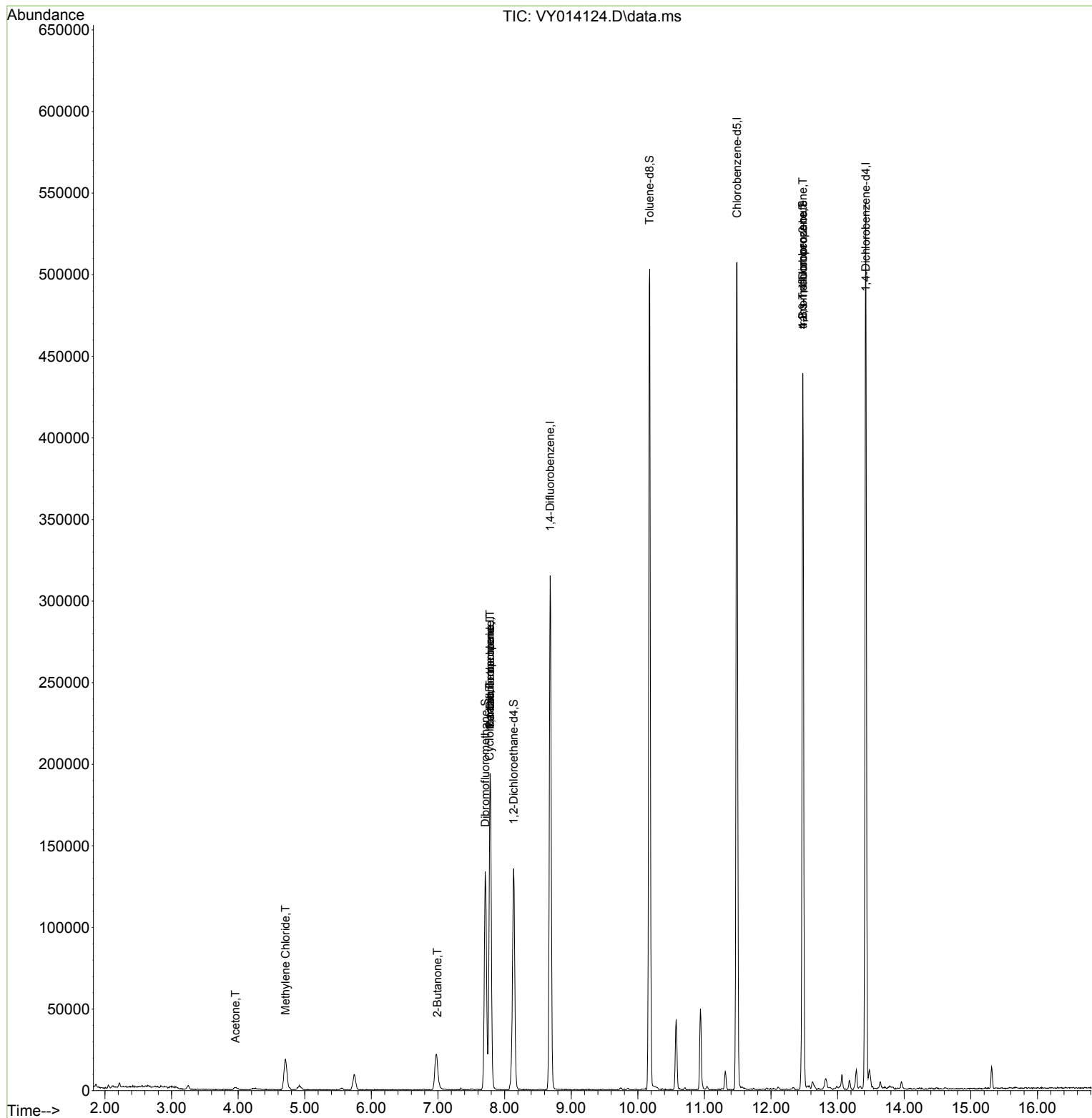
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 149705              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 263065              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 274283              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 137956              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 108572              | 52.081    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 104.160% |           |        |          |
| 35) Dibromofluoromethane      | 7.710          | 113  | 89363               | 47.900    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 95.800%  |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 327767              | 46.994    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 93.980%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 118550              | 47.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 95.700%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
| 11) Tert butyl alcohol        | 4.917          | 59   | 2639                | Below Cal | #      | 91       |
| 13) Acrolein                  | 3.851          | 56   | 54                  | Below Cal | #      | 14       |
| 16) Acetone                   | 3.960          | 43   | 3574                | 5.688     | ug/l # | 78       |
| 20) Methylene Chloride        | 4.710          | 84   | 13525               | 3.400     | ug/l   | 90       |
| 25) 2-Butanone                | 6.990          | 43   | 3133                | 4.050     | ug/l # | 73       |
| 31) Cyclohexane               | 7.777          | 56   | 3655                | 1.309     | ug/l # | 12       |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 11639               | 4.002     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.783          | 117  | 14624               | 4.357     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 66524               | 36.755    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 66524               | 79.449    | ug/l # | 11       |
| -----                         |                |      |                     |           |        |          |

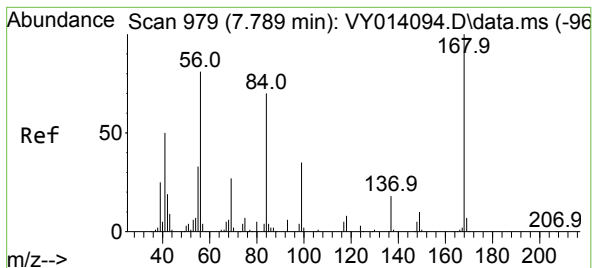
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jun 09 18:07:13 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY014124.D

Acq: 12 Jun 2023 16:42

Instrument :

MSVOA\_Y

ClientSampleId :

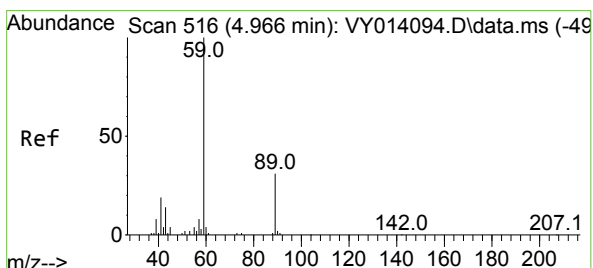
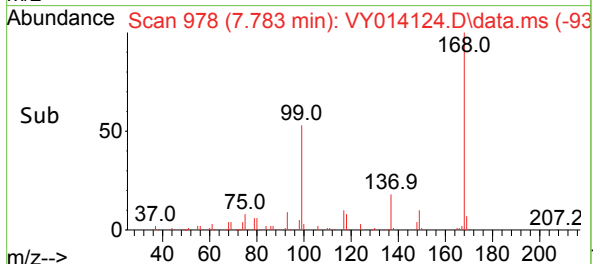
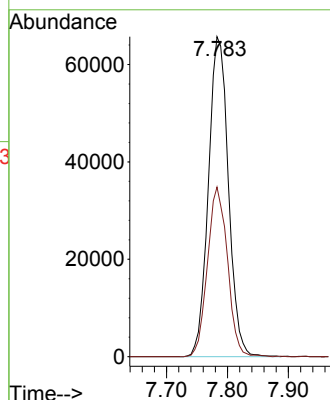
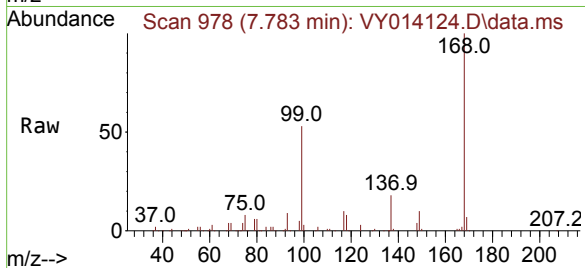
TP-2GA

Tgt Ion:168 Resp: 149705

Ion Ratio Lower Upper

168 100

99 53.0 43.4 65.0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.917 min Scan# 508

Delta R.T. -0.049 min

Lab File: VY014124.D

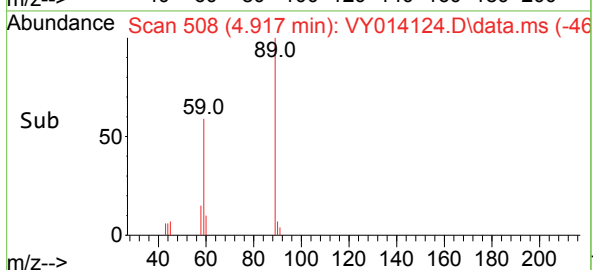
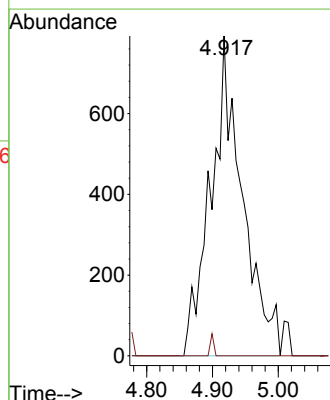
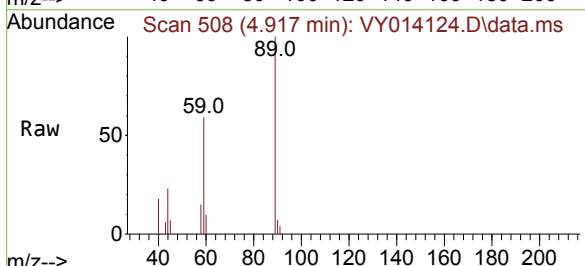
Acq: 12 Jun 2023 16:42

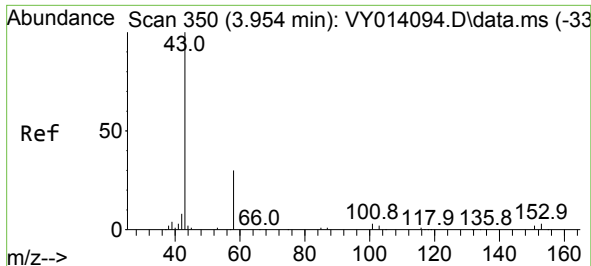
Tgt Ion: 59 Resp: 2639

Ion Ratio Lower Upper

59 100

57 0.8 3.0 4.4#





#16

Acetone

Concen: 5.688 ug/l

RT: 3.960 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY014124.D

Acq: 12 Jun 2023 16:42

Instrument :

MSVOA\_Y

ClientSampleId :

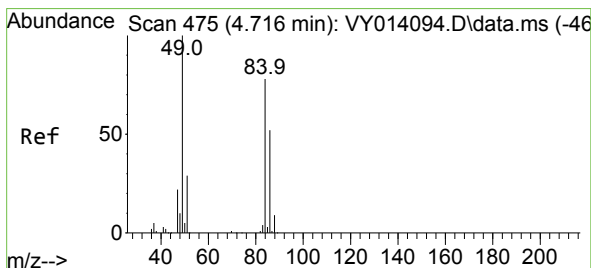
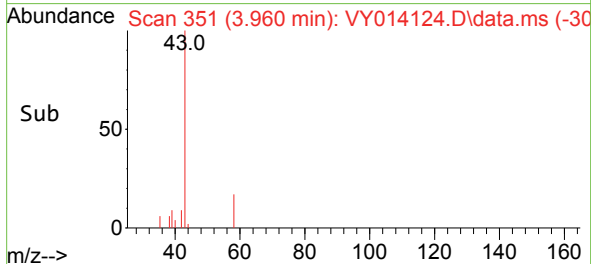
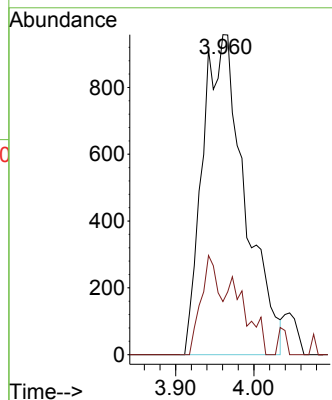
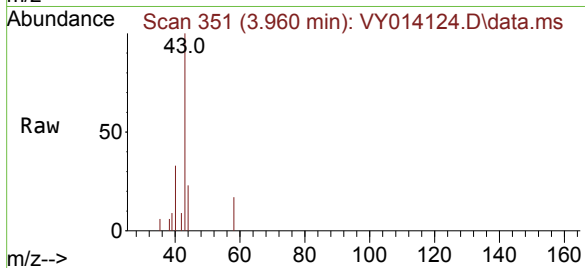
TP-2GA

Tgt Ion: 43 Resp: 3574

Ion Ratio Lower Upper

43 100

58 16.6 22.7 34.1#



#20

Methylene Chloride

Concen: 3.400 ug/l

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY014124.D

Acq: 12 Jun 2023 16:42

Tgt Ion: 84 Resp: 13525

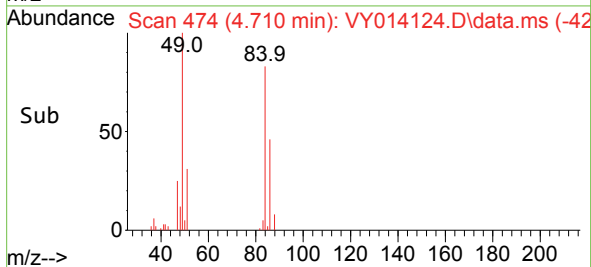
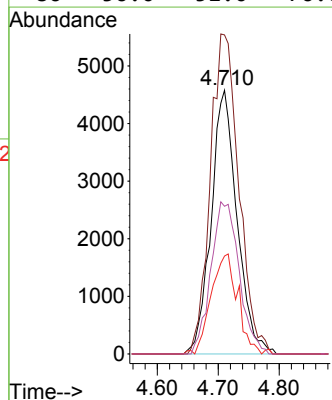
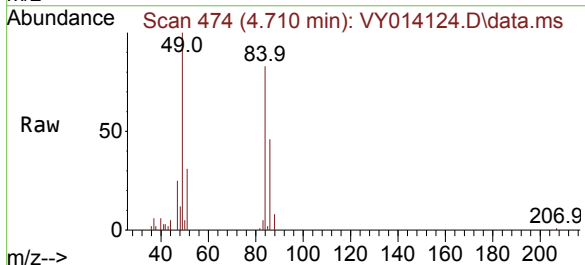
Ion Ratio Lower Upper

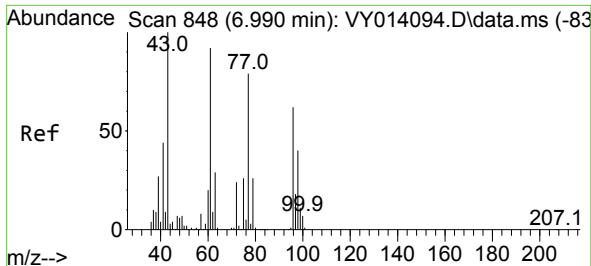
84 100

49 121.0 106.9 160.3

51 37.1 33.2 49.8

86 56.0 51.0 76.6

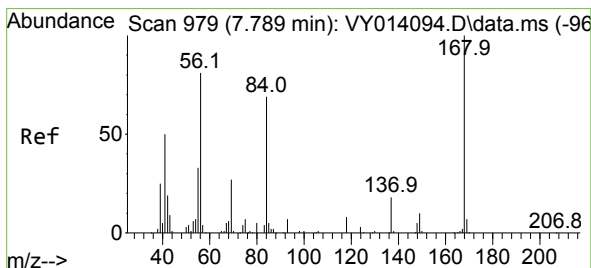
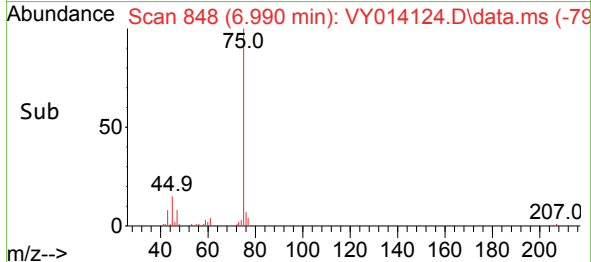
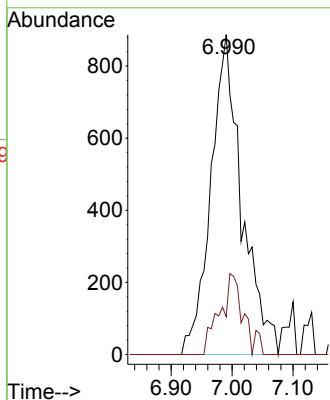
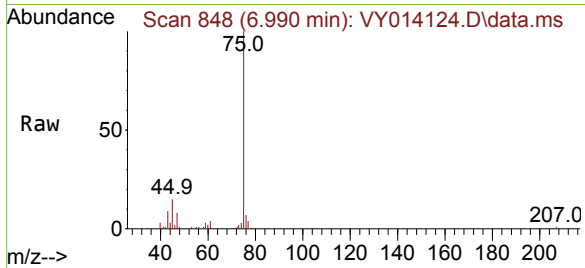




#25  
2-Butanone  
Concen: 4.050 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

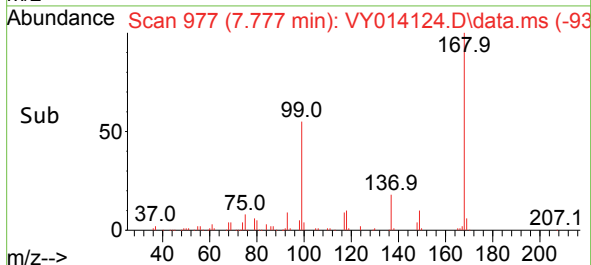
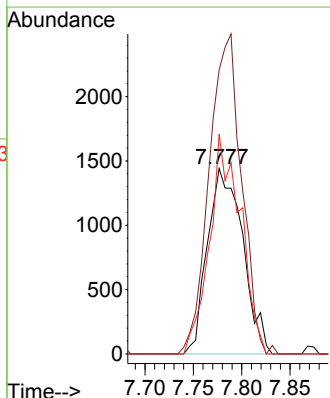
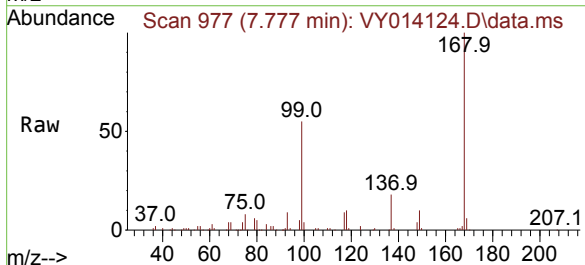
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-2GA

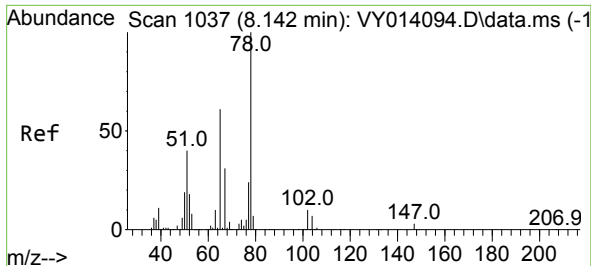
Tgt Ion: 43 Resp: 3133  
Ion Ratio Lower Upper  
43 100  
72 11.8 20.5 30.7#



#31  
Cyclohexane  
Concen: 1.309 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.012 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

Tgt Ion: 56 Resp: 3655  
Ion Ratio Lower Upper  
56 100  
69 153.3 27.8 41.6#  
84 118.5 66.4 99.6#

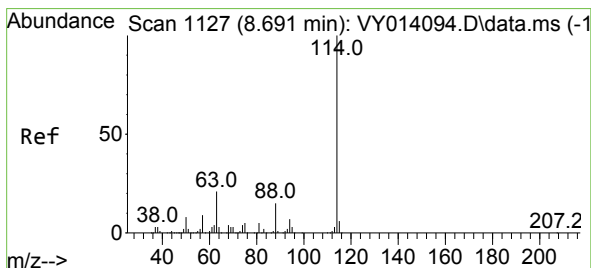
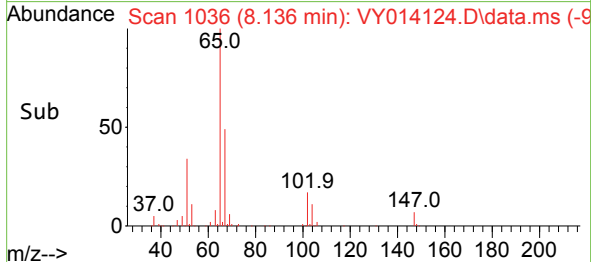
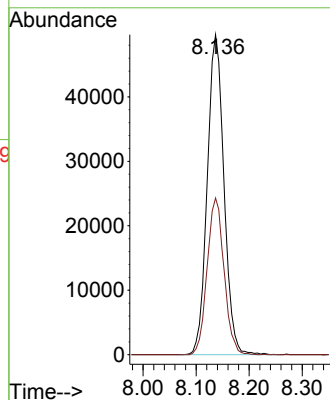
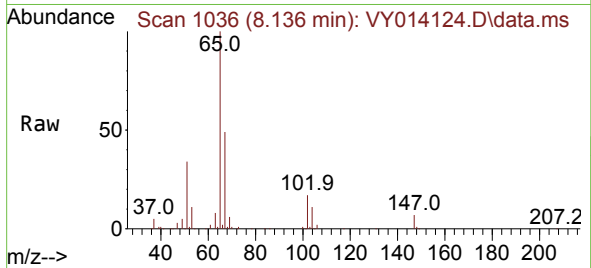




#33  
1,2-Dichloroethane-d4  
Concen: 52.081 ug/l  
RT: 8.136 min Scan# 1037  
Delta R.T. -0.006 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

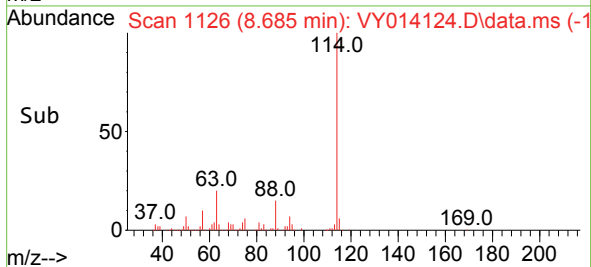
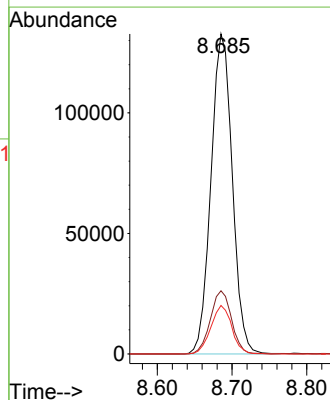
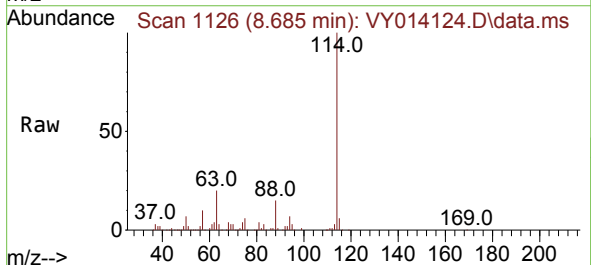
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-2GA

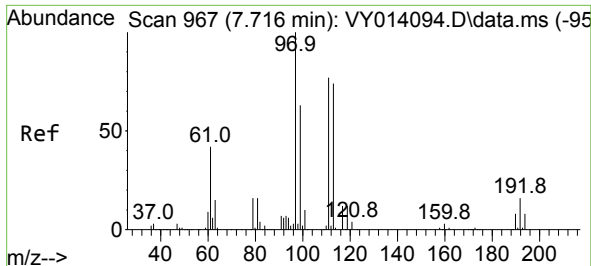
Tgt Ion: 65 Resp: 108572  
Ion Ratio Lower Upper  
65 100  
67 49.5 0.0 101.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

Tgt Ion: 114 Resp: 263065  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 42.4  
88 15.1 0.0 30.6

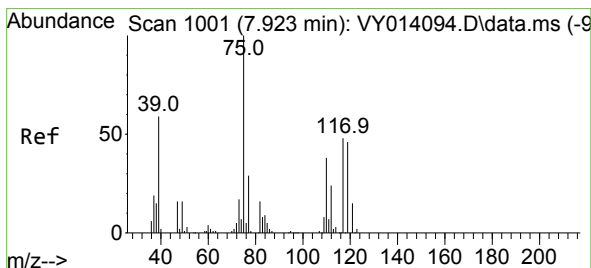
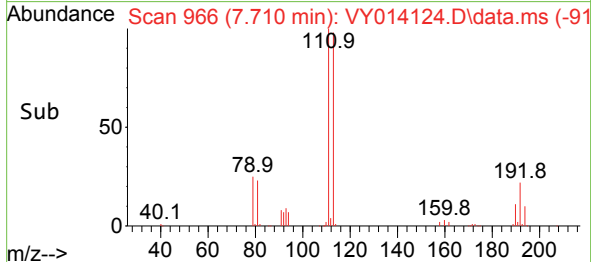
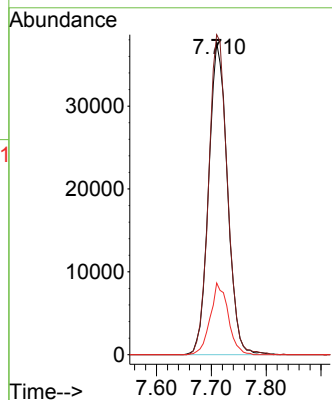
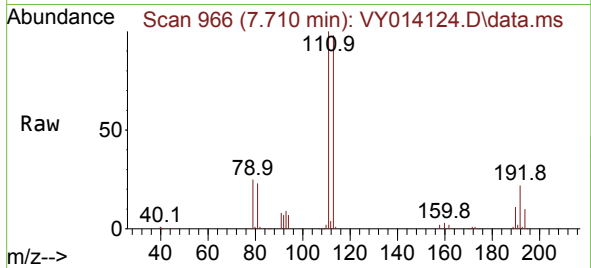




#35  
Dibromofluoromethane  
Concen: 47.900 ug/l  
RT: 7.710 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

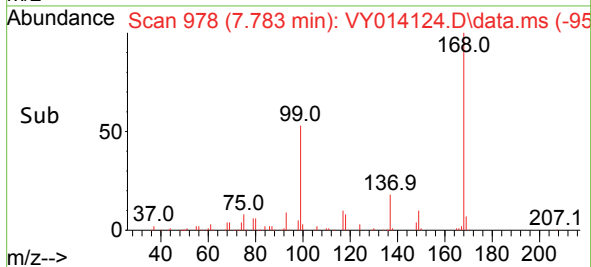
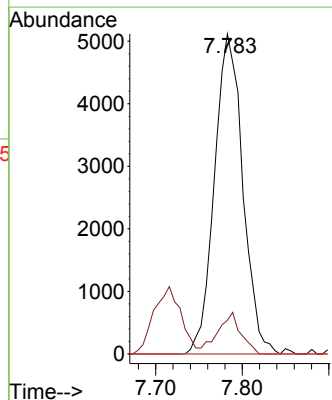
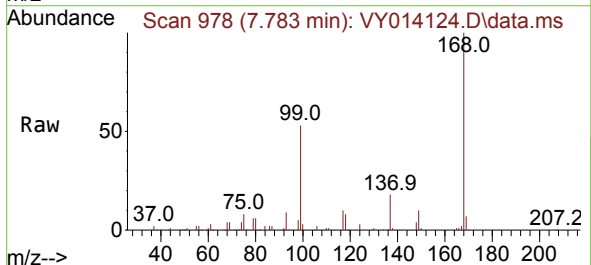
Instrument :  
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TP-2GA

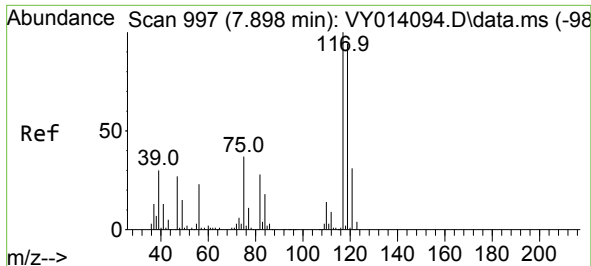
Tgt Ion:113 Resp: 89363  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.3 121.9  
192 21.9 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.002 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.140 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

Tgt Ion: 75 Resp: 11639  
Ion Ratio Lower Upper  
75 100  
110 10.4 17.8 53.5#  
77 0.0 24.4 36.6#

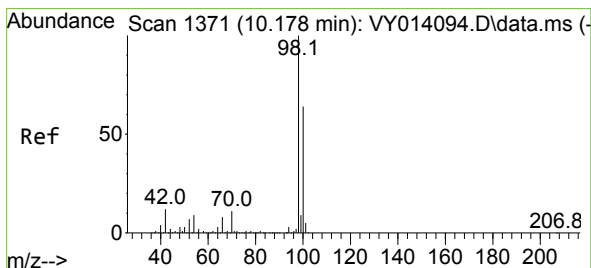
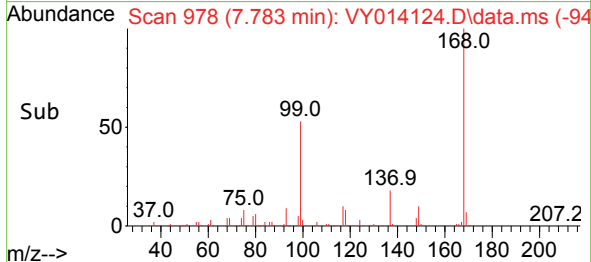
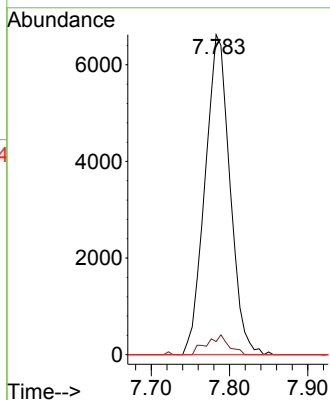
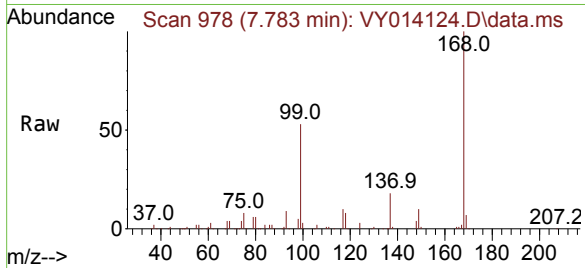




#38  
Carbon Tetrachloride  
Concen: 4.357 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.115 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

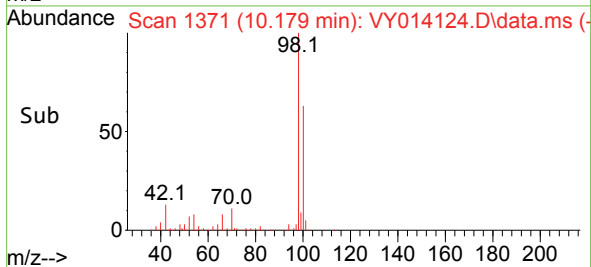
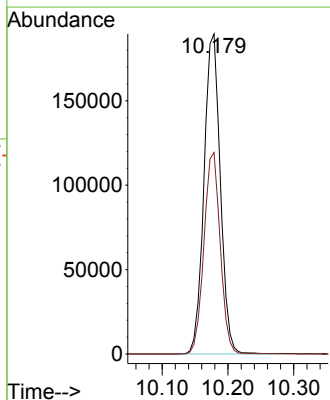
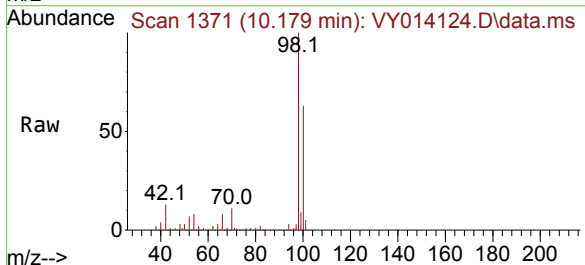
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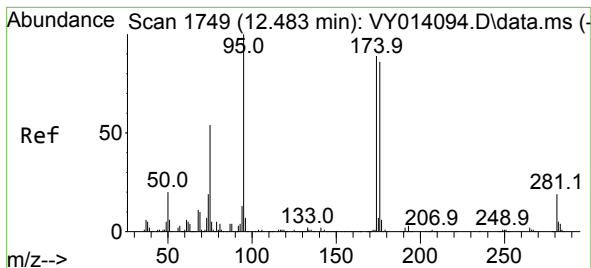
Tgt Ion:117 Resp: 14624  
Ion Ratio Lower Upper  
117 100  
119 4.1 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 46.994 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014124.D  
Acq: 12 Jun 2023 16:42

Tgt Ion: 98 Resp: 327767  
Ion Ratio Lower Upper  
98 100  
100 62.8 50.1 75.1





#62

4-Bromofluorobenzene

Concen: 47.848 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY014124.D

Acq: 12 Jun 2023 16:42

Instrument :

MSVOA\_Y

ClientSampleId :

TP-2GA

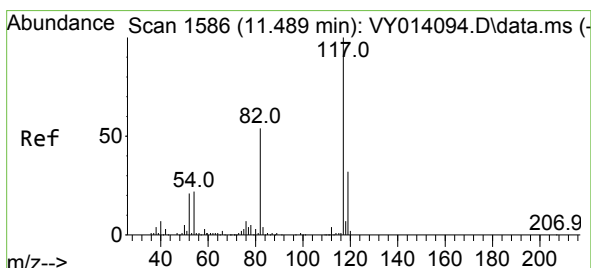
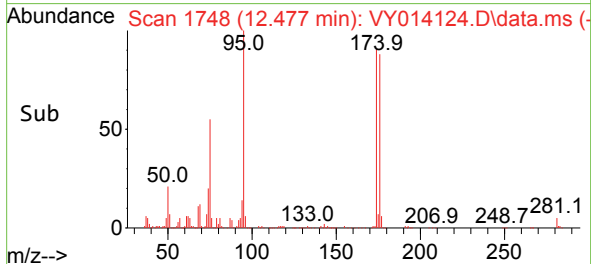
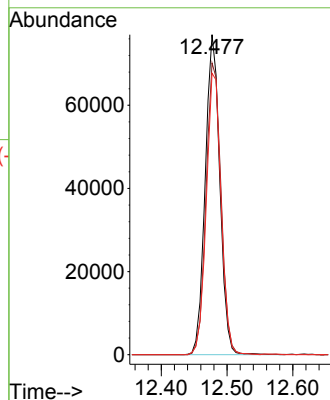
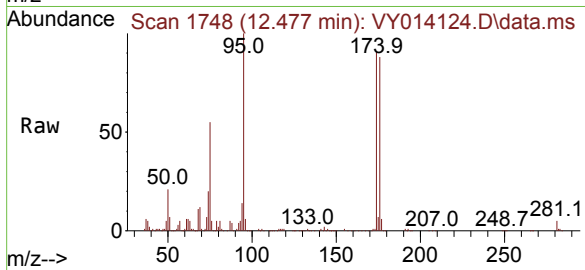
Tgt Ion: 95 Resp: 118550

Ion Ratio Lower Upper

95 100

174 94.0 0.0 178.2

176 89.7 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY014124.D

Acq: 12 Jun 2023 16:42

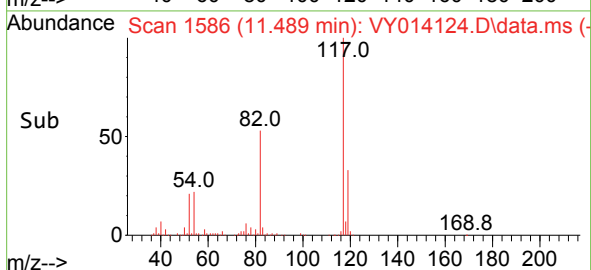
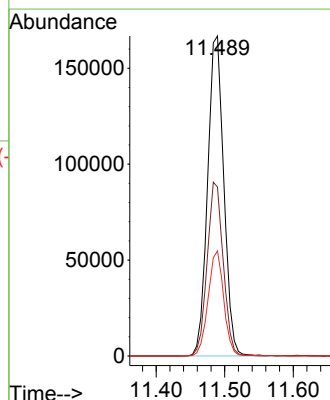
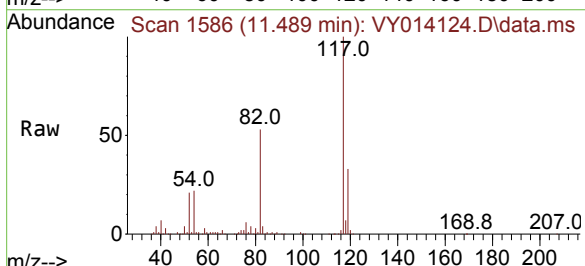
Tgt Ion: 117 Resp: 274283

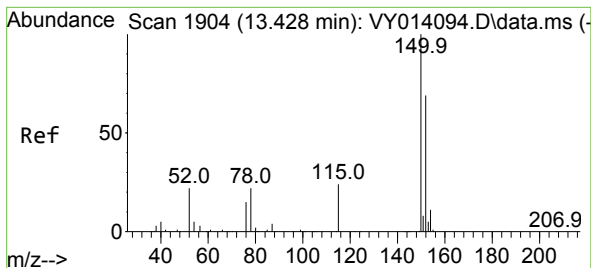
Ion Ratio Lower Upper

117 100

82 52.8 43.4 65.0

119 32.8 26.3 39.5

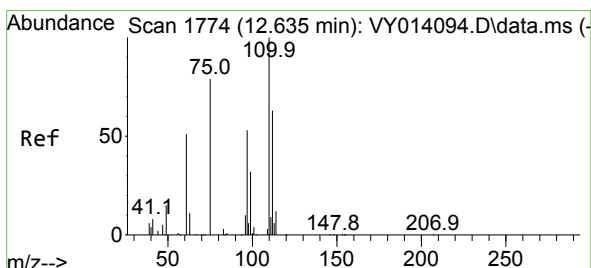
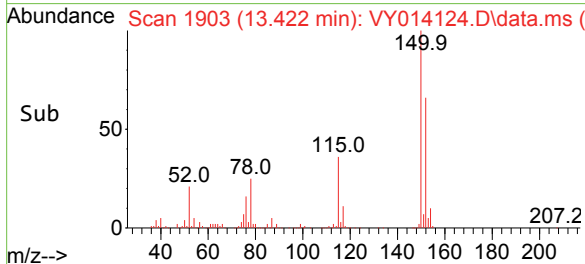
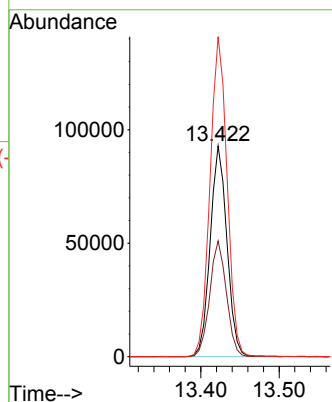
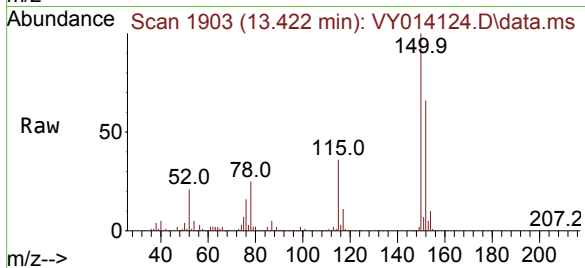




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1904  
 Delta R.T. -0.006 min  
 Lab File: VY014124.D  
 Acq: 12 Jun 2023 16:42

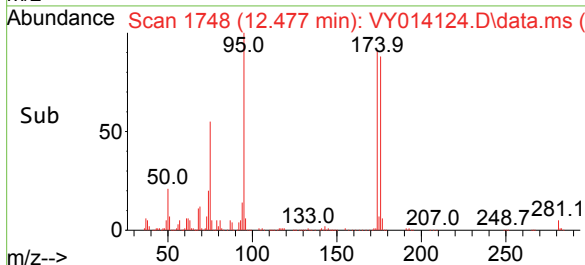
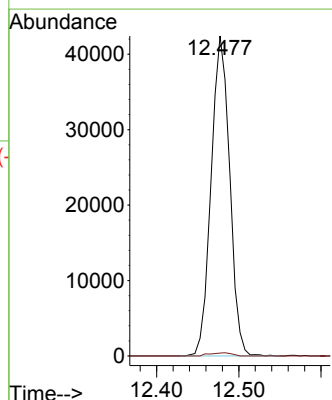
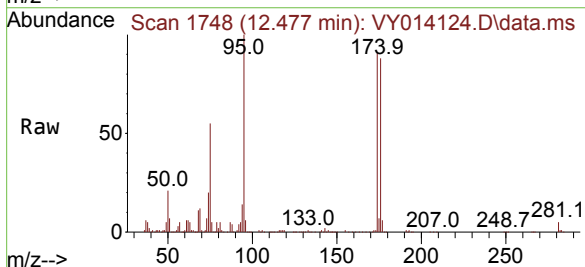
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-2GA

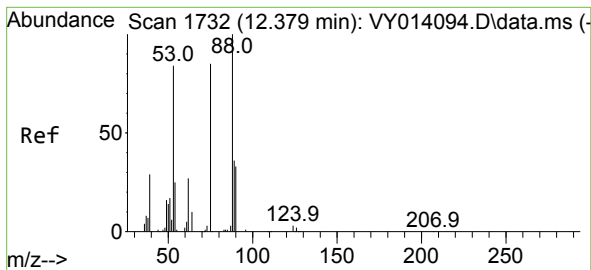
Tgt Ion:152 Resp: 137956  
 Ion Ratio Lower Upper  
 152 100  
 115 54.6 28.8 86.5  
 150 154.5 0.0 348.8



#76  
 1,2,3-Trichloropropane  
 Concen: 36.755 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.158 min  
 Lab File: VY014124.D  
 Acq: 12 Jun 2023 16:42

Tgt Ion: 75 Resp: 66524  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 79.449 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.098 min  
 Lab File: VY014124.D  
 Acq: 12 Jun 2023 16:42

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-2GA

Tgt Ion: 75 Resp: 66524  
 Ion Ratio Lower Upper  
 75 100  
 53 0.7 77.8 116.8#  
 89 0.3 37.4 56.0#

