

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061523\  
 Data File : VY014195.D  
 Acq On : 15 Jun 2023 17:26  
 Operator : KP/MD  
 Sample : 03223-23  
 Misc : 10.65g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

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

Quant Time: Jun 16 02:11:05 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

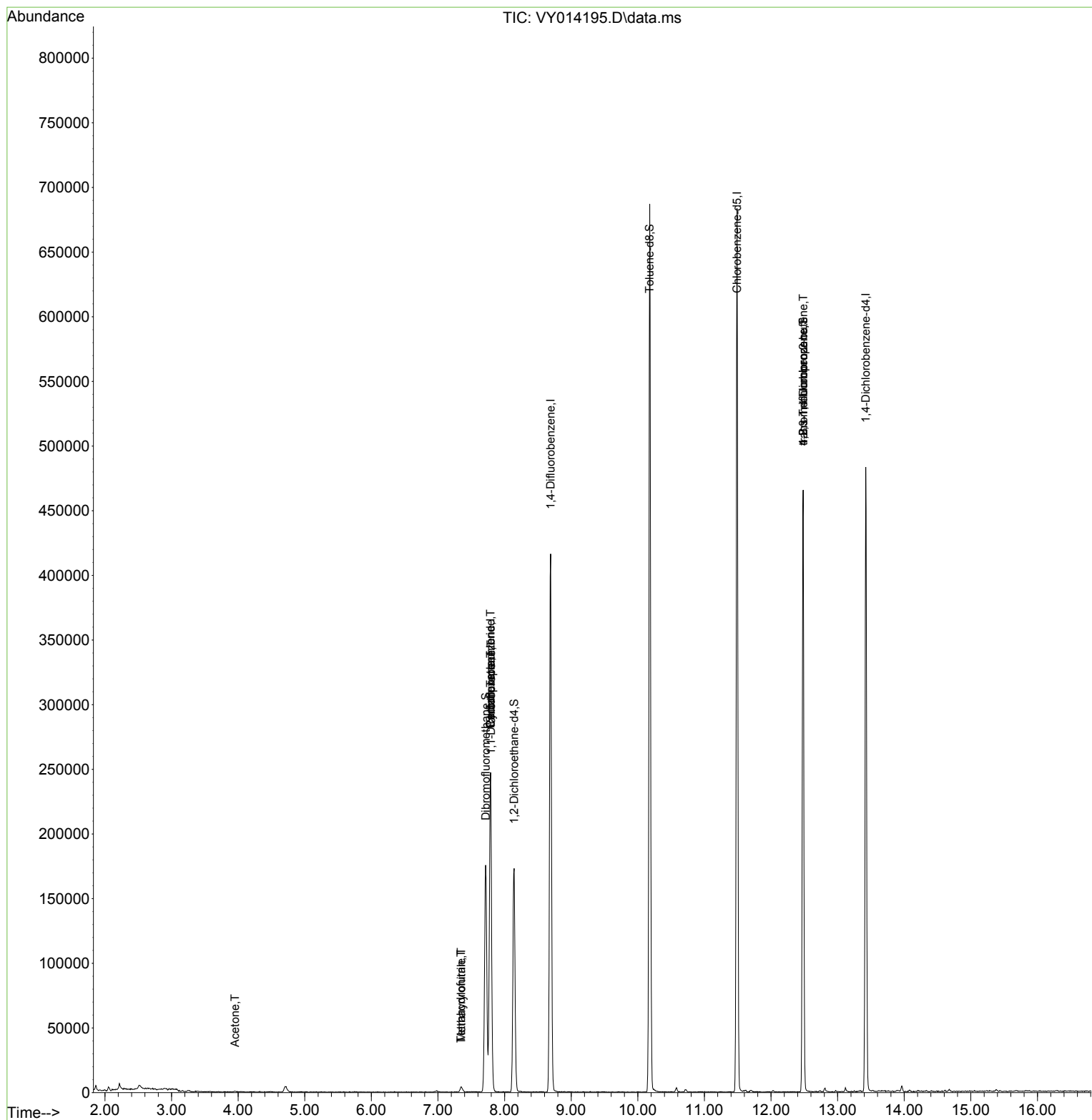
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 193348              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 344831              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 348106              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 124059              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.142          | 65   | 143766              | 53.397    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 106.800% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 117908              | 48.215    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 96.420%  |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 432989              | 47.360    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 94.720%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 129383              | 39.838    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 79.680%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 11) Tert butyl alcohol        | 4.960          | 59   | 377                 | Below Cal | #      | 89       |
| 13) Acrolein                  | 3.784          | 56   | 21                  | Below Cal | #      | 14       |
| 16) Acetone                   | 3.954          | 43   | 977                 | 1.204     | ug/l   | 90       |
| 20) Methylene Chloride        | 4.710          | 84   | 3286                | Below Cal |        | 94       |
| 29) Tetrahydrofuran           | 7.344          | 42   | 2968                | 4.685     | ug/l   | 95       |
| 31) Cyclohexane               | 7.789          | 56   | 4340                | 1.203     | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 7.795          | 75   | 14368               | 3.769     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 18428               | 4.189     | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.350          | 41   | 1833                | 1.365     | ug/l # | 46       |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 70860               | 43.536    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 70860               | 94.108    | ug/l # | 11       |
| -----                         |                |      |                     |           |        |          |

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

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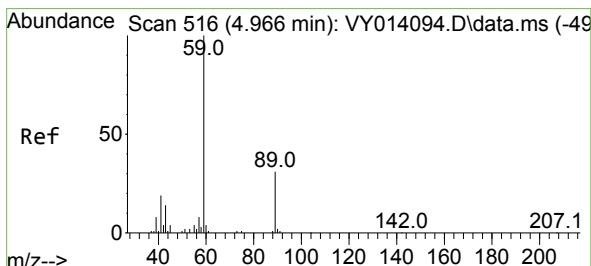
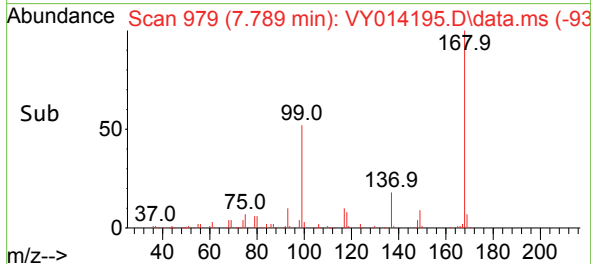
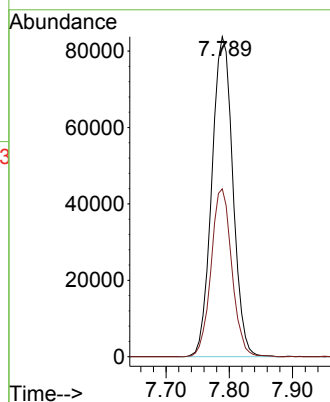
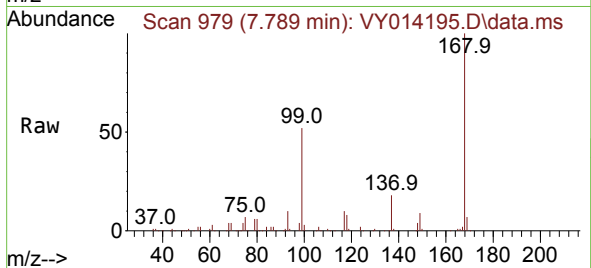




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

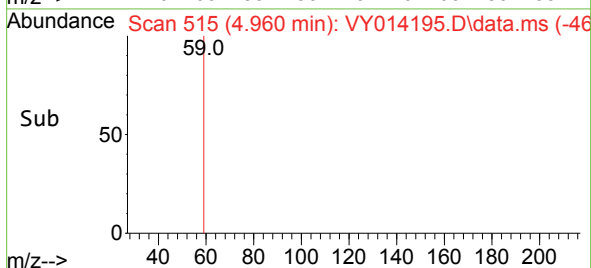
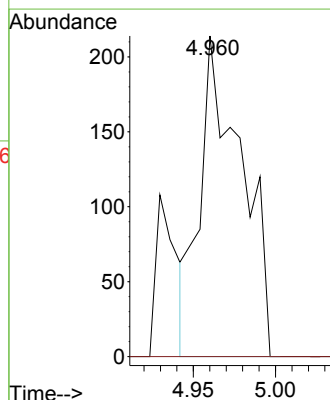
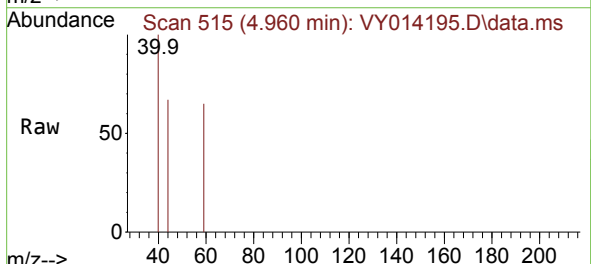
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-03-GRAB-6

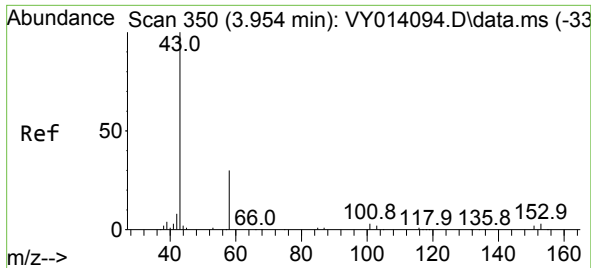
Tgt Ion:168 Resp: 193348  
Ion Ratio Lower Upper  
168 100  
99 52.4 43.4 65.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.960 min Scan# 515  
Delta R.T. -0.006 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

Tgt Ion: 59 Resp: 377  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.4#





#16

Acetone

Concen: 1.204 ug/l

RT: 3.954 min Scan# 3

Delta R.T. 0.000 min

Lab File: VY014195.D

Acq: 15 Jun 2023 17:26

Instrument :

MSVOA\_Y

ClientSampleId :

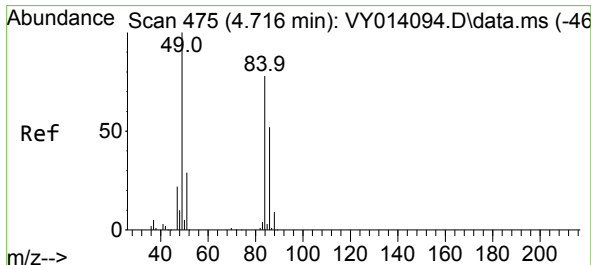
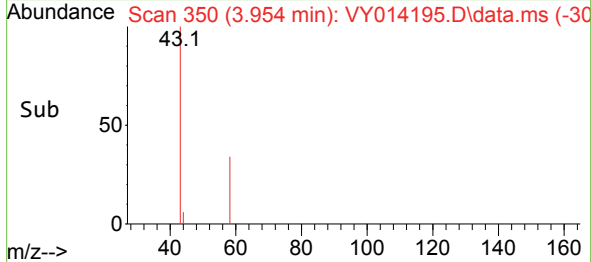
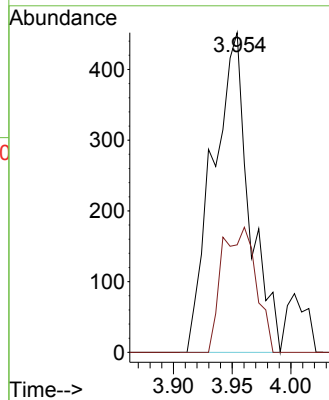
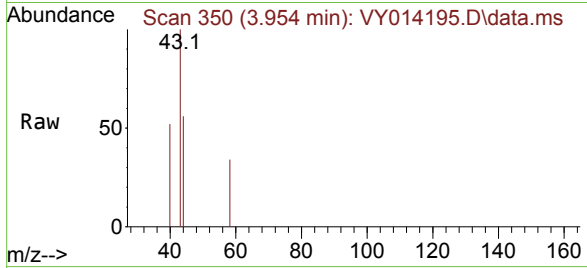
TOTAL-VOC-SB-03-GRAB-6

Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

43 100

58 33.6 22.7 34.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY014195.D

Acq: 15 Jun 2023 17:26

Tgt Ion: 84 Resp: 3286

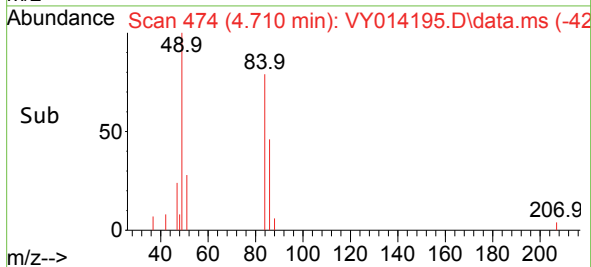
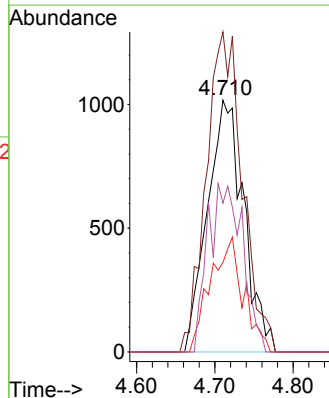
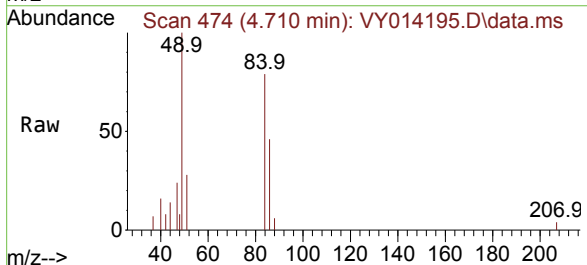
Ion Ratio Lower Upper

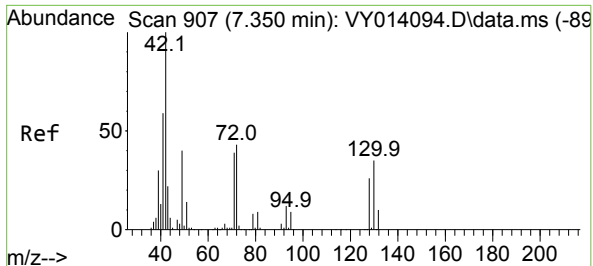
84 100

49 127.1 106.9 160.3

51 35.5 33.2 49.8

86 59.1 51.0 76.6





#29

Tetrahydrofuran

Concen: 4.685 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.006 min

Lab File: VY014195.D

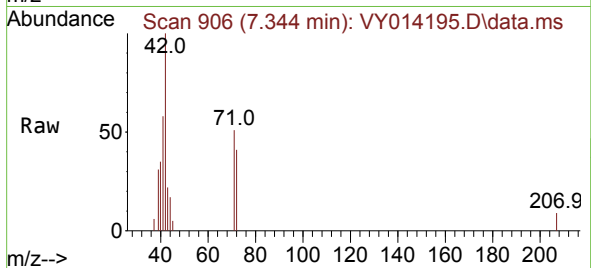
Acq: 15 Jun 2023 17:26

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-03-GRAB-6



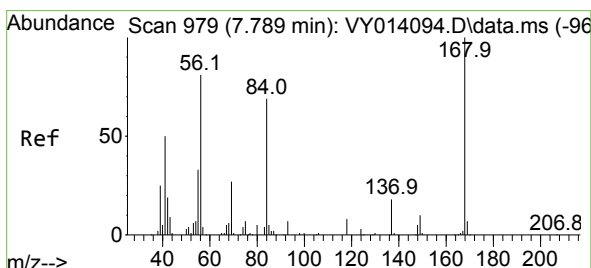
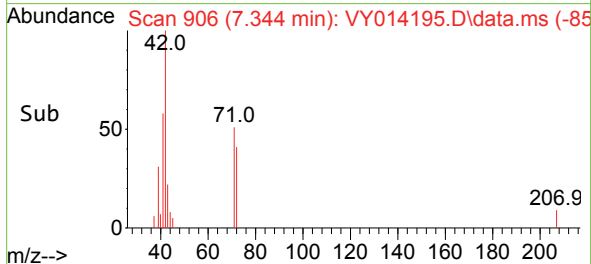
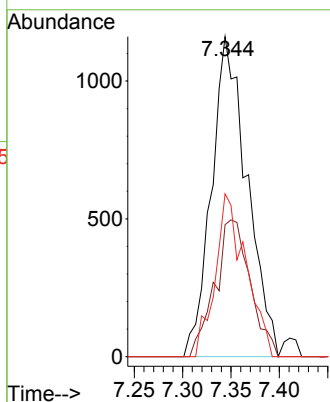
Tgt Ion: 42 Resp: 2968

Ion Ratio Lower Upper

42 100

72 42.4 32.8 49.2

71 43.8 31.0 46.4



#31

Cyclohexane

Concen: 1.203 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.000 min

Lab File: VY014195.D

Acq: 15 Jun 2023 17:26

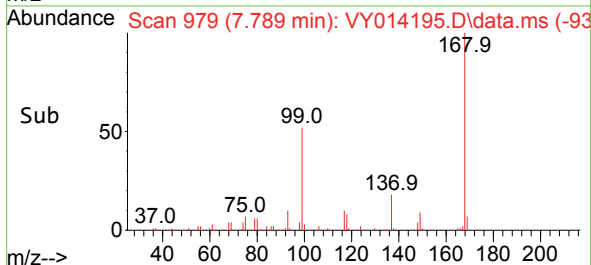
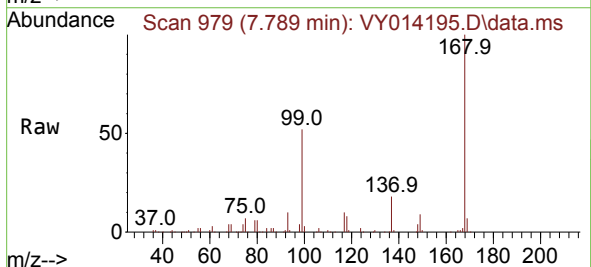
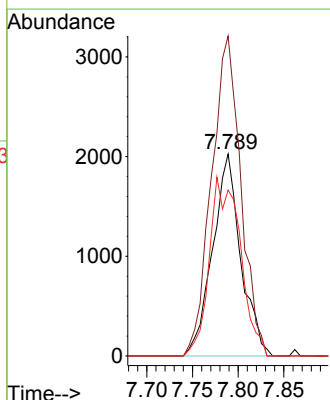
Tgt Ion: 56 Resp: 4340

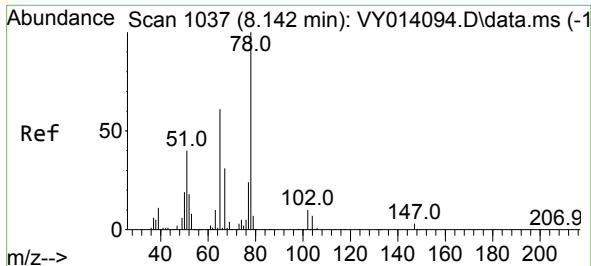
Ion Ratio Lower Upper

56 100

69 158.4 27.8 41.6#

84 82.1 66.4 99.6

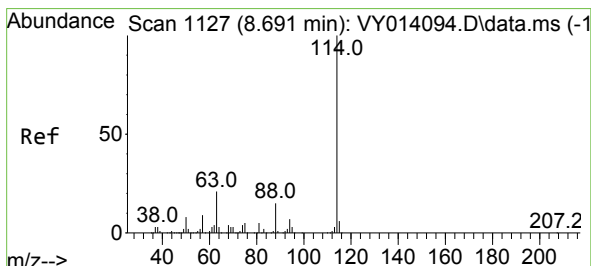
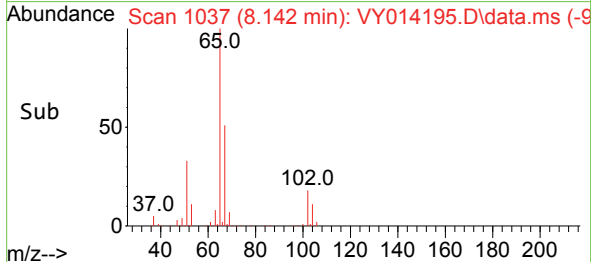
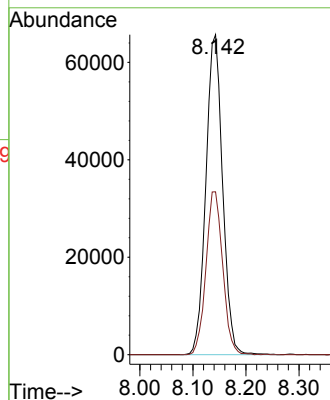
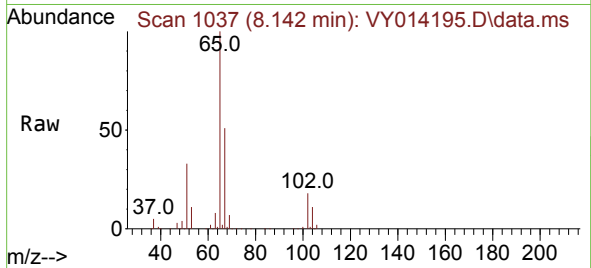




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.397 ug/l  
 RT: 8.142 min Scan# 1037  
 Delta R.T. 0.000 min  
 Lab File: VY014195.D  
 Acq: 15 Jun 2023 17:26

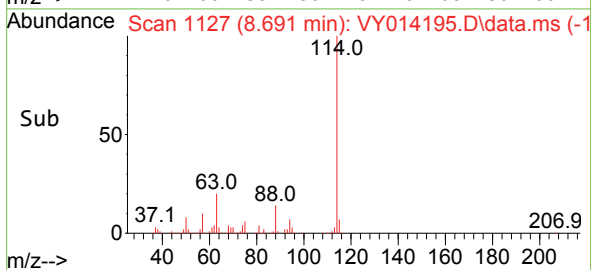
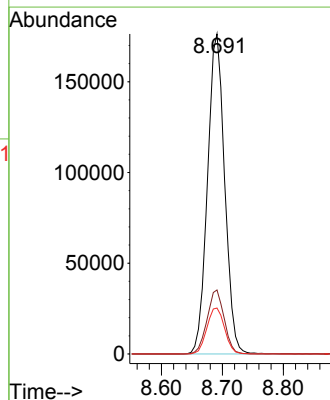
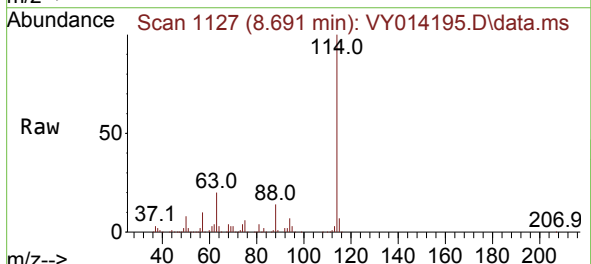
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 MSVOA\_Y  
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 TOTAL-VOC-SB-03-GRAB-6

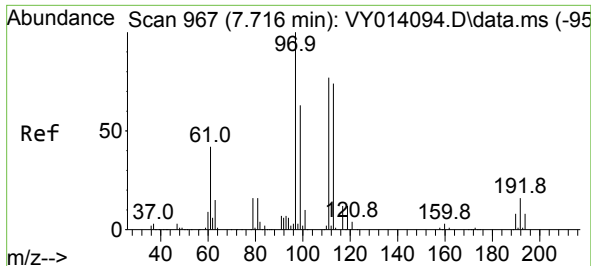
Tgt Ion: 65 Resp: 143766  
 Ion Ratio Lower Upper  
 65 100  
 67 51.0 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.691 min Scan# 1127  
 Delta R.T. 0.000 min  
 Lab File: VY014195.D  
 Acq: 15 Jun 2023 17:26

Tgt Ion: 114 Resp: 344831  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 42.4  
 88 14.4 0.0 30.6

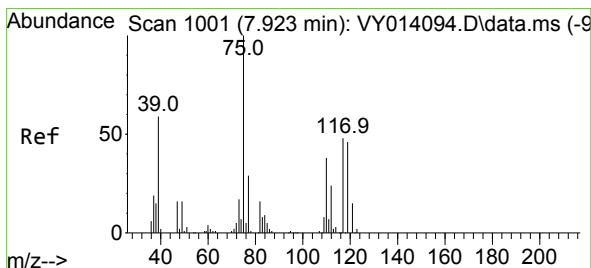
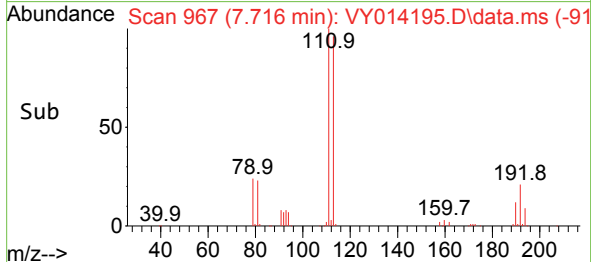
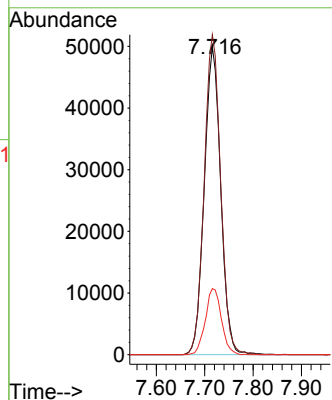
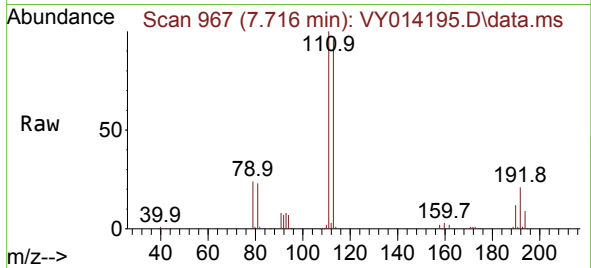




#35  
Dibromofluoromethane  
Concen: 48.215 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

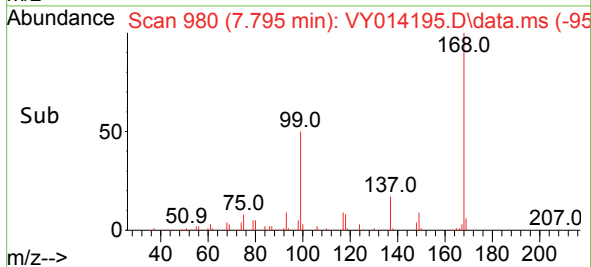
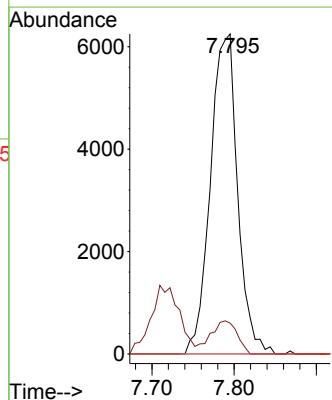
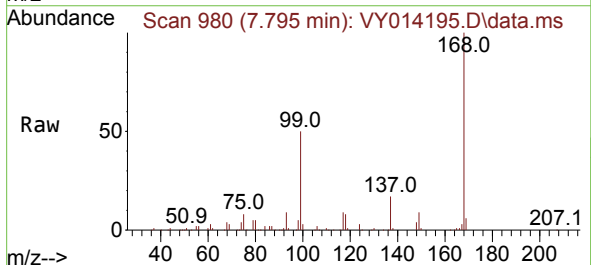
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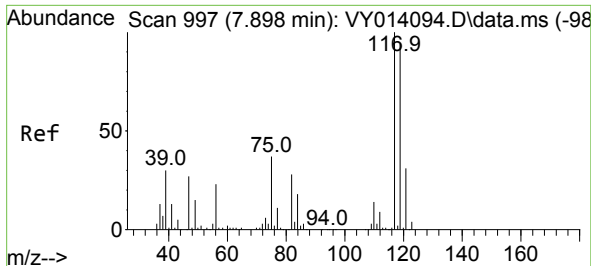
Tgt Ion:113 Resp: 117908  
Ion Ratio Lower Upper  
113 100  
111 103.8 81.3 121.9  
192 21.0 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 3.769 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.128 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

Tgt Ion: 75 Resp: 14368  
Ion Ratio Lower Upper  
75 100  
110 10.1 17.8 53.5#  
77 0.0 24.4 36.6#

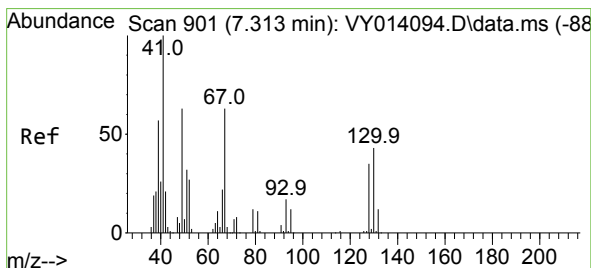
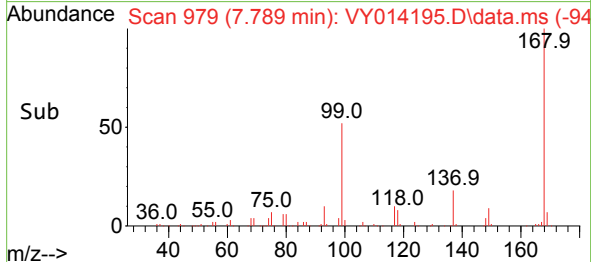
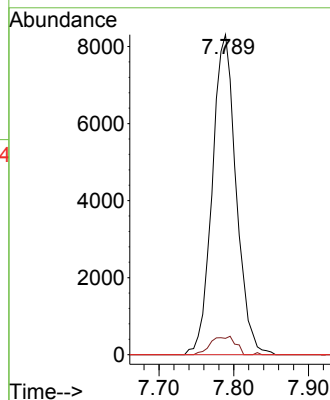
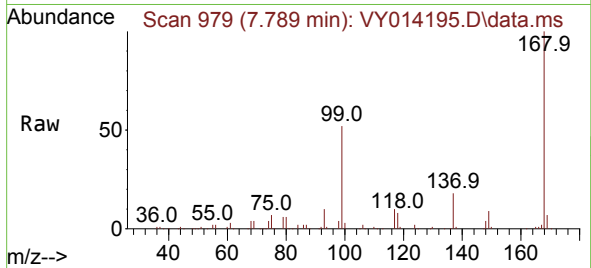




#38  
Carbon Tetrachloride  
Concen: 4.189 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.109 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

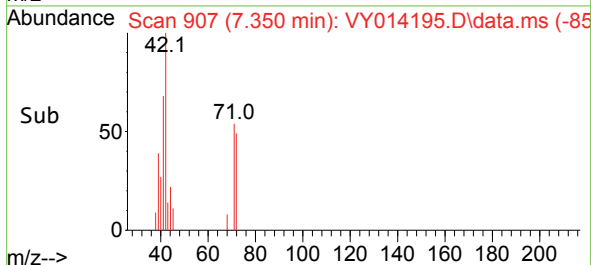
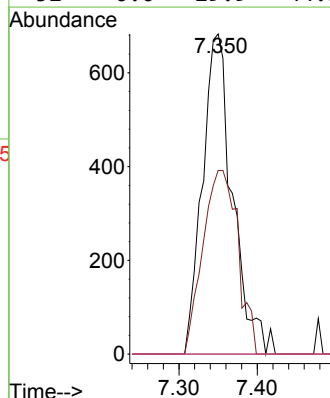
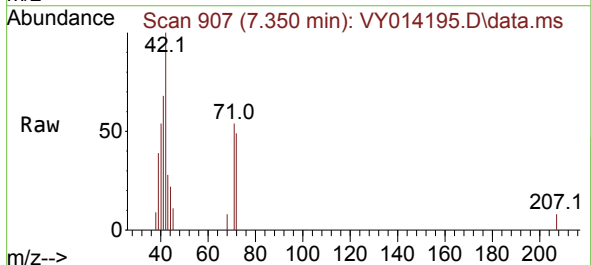
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TOTAL-VOC-SB-03-GRAB-6

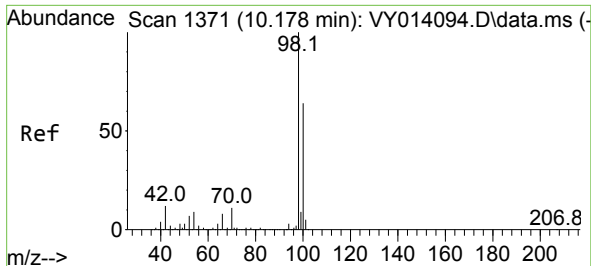
Tgt Ion:117 Resp: 18428  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.4 114.6#  
121 0.0 25.8 38.6#



#41  
Methacrylonitrile  
Concen: 1.365 ug/l  
RT: 7.350 min Scan# 907  
Delta R.T. 0.037 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

Tgt Ion: 41 Resp: 1833  
Ion Ratio Lower Upper  
41 100  
39 66.4 52.1 78.1  
67 0.0 66.2 99.2#  
52 0.0 29.9 44.9#

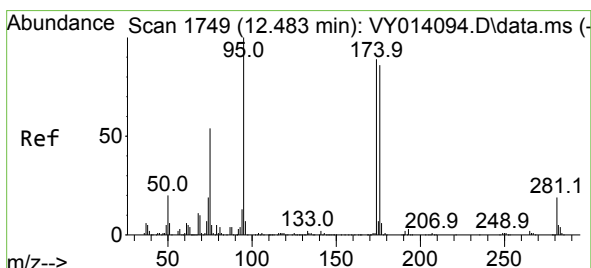
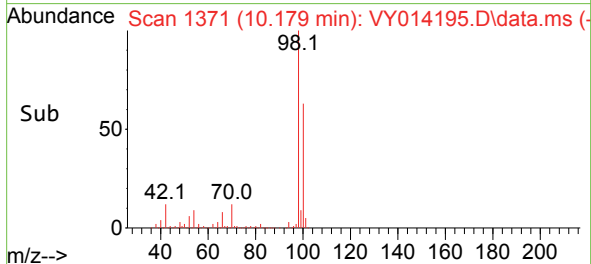
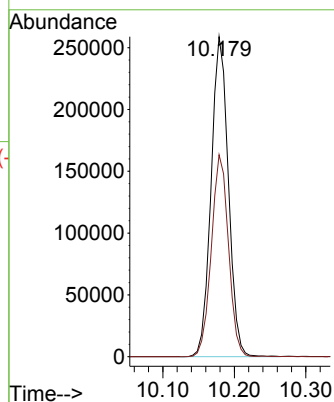
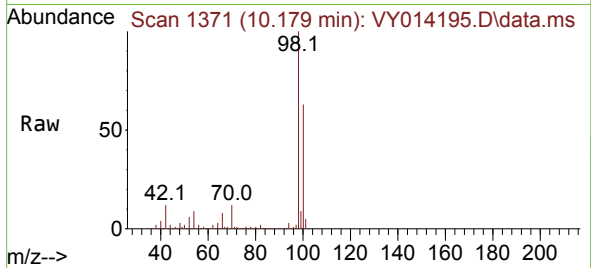




#50  
Toluene-d8  
Concen: 47.360 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.001 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

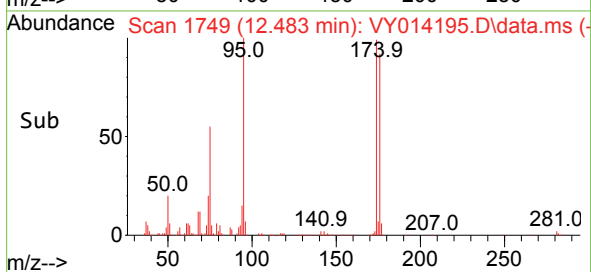
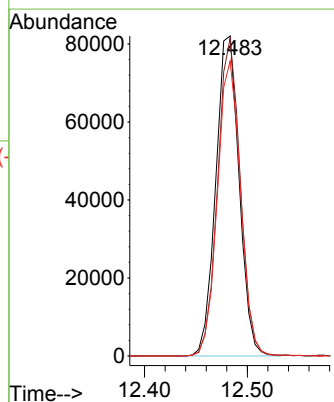
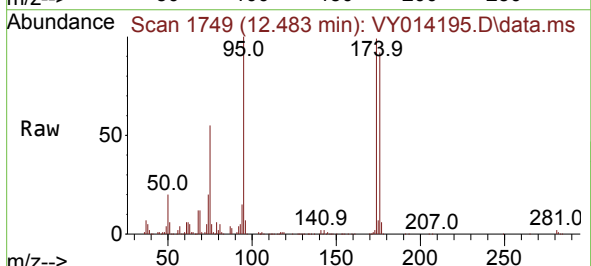
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOTAL-VOC-SB-03-GRAB-6

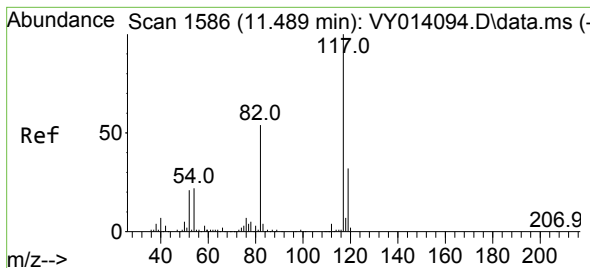
Tgt Ion: 98 Resp: 432989  
Ion Ratio Lower Upper  
98 100  
100 62.7 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 39.838 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

Tgt Ion: 95 Resp: 129383  
Ion Ratio Lower Upper  
95 100  
174 96.2 0.0 178.2  
176 91.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014195.D

Acq: 15 Jun 2023 17:26

Instrument :

MSVOA\_Y

ClientSampleId :

TOTAL-VOC-SB-03-GRAB-6

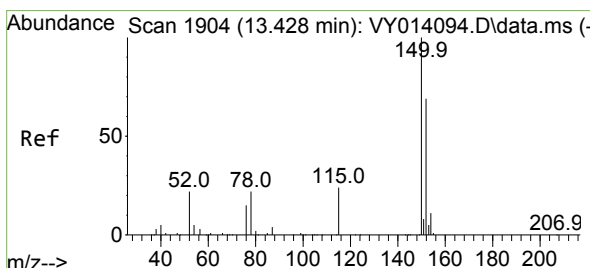
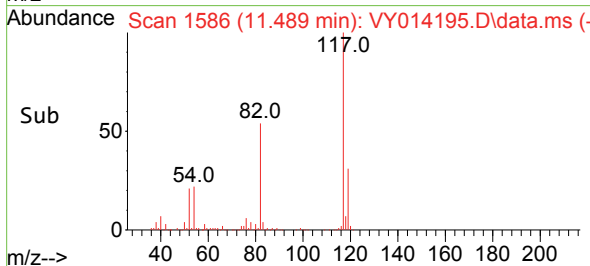
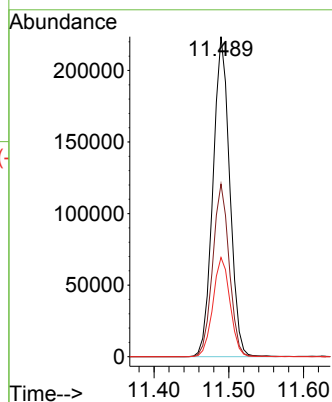
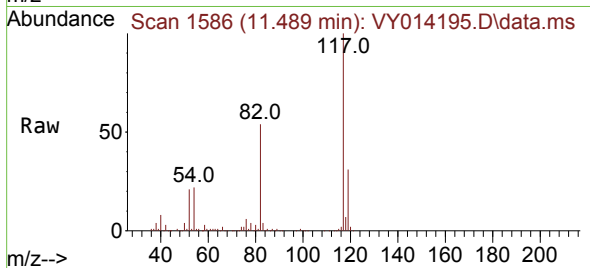
Tgt Ion:117 Resp: 348106

Ion Ratio Lower Upper

117 100

82 54.0 43.4 65.0

119 31.0 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY014195.D

Acq: 15 Jun 2023 17:26

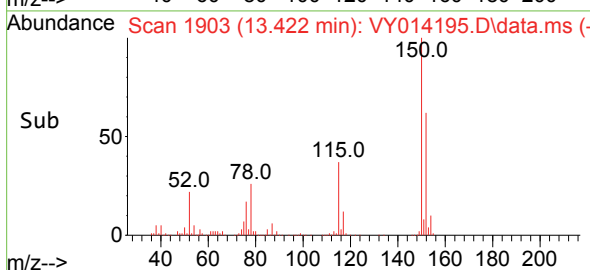
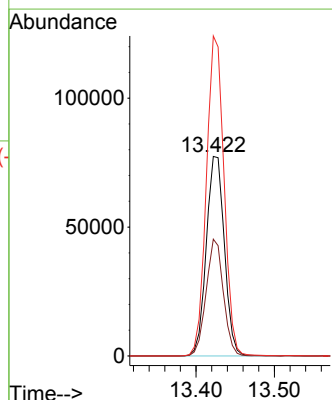
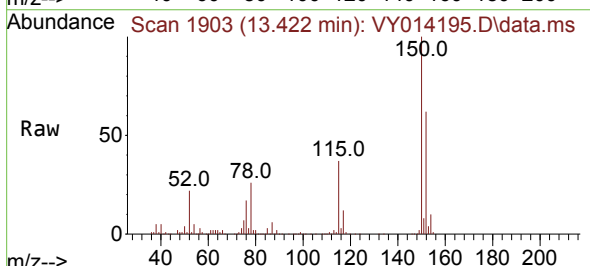
Tgt Ion:152 Resp: 124059

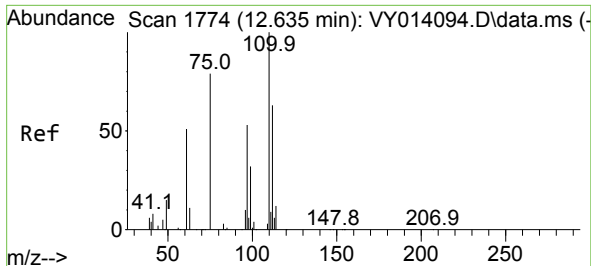
Ion Ratio Lower Upper

152 100

115 55.9 28.8 86.5

150 156.2 0.0 348.8

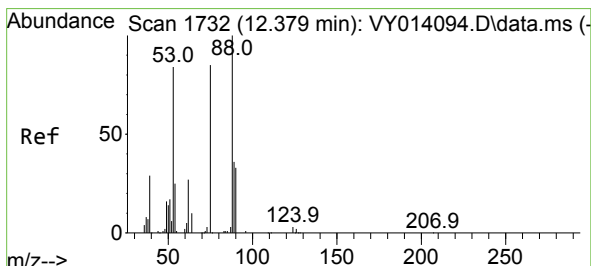
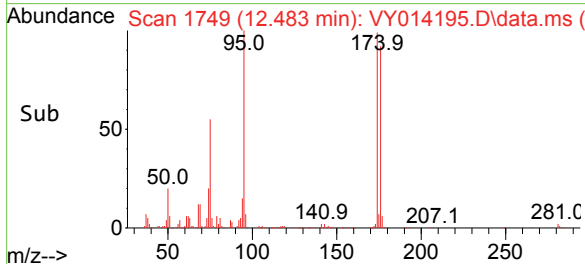
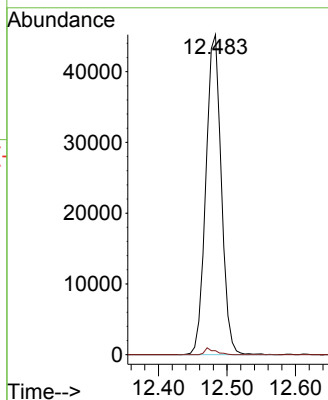
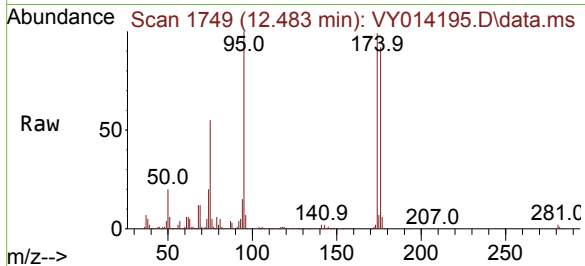




#76  
1,2,3-Trichloropropane  
Concen: 43.536 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

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

Tgt Ion: 75 Resp: 70860  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.108 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY014195.D  
Acq: 15 Jun 2023 17:26

Tgt Ion: 75 Resp: 70860  
Ion Ratio Lower Upper  
75 100  
53 0.3 77.8 116.8#  
89 0.0 37.4 56.0#

