

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090222\  
 Data File : VY010286.D  
 Acq On : 02 Sep 2022 18:04  
 Operator : KP/MD  
 Sample : N4423-01  
 Misc : 5.67g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-1

Quant Time: Sep 02 22:54:04 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 16:41:46 2022  
 Response via : Initial Calibration

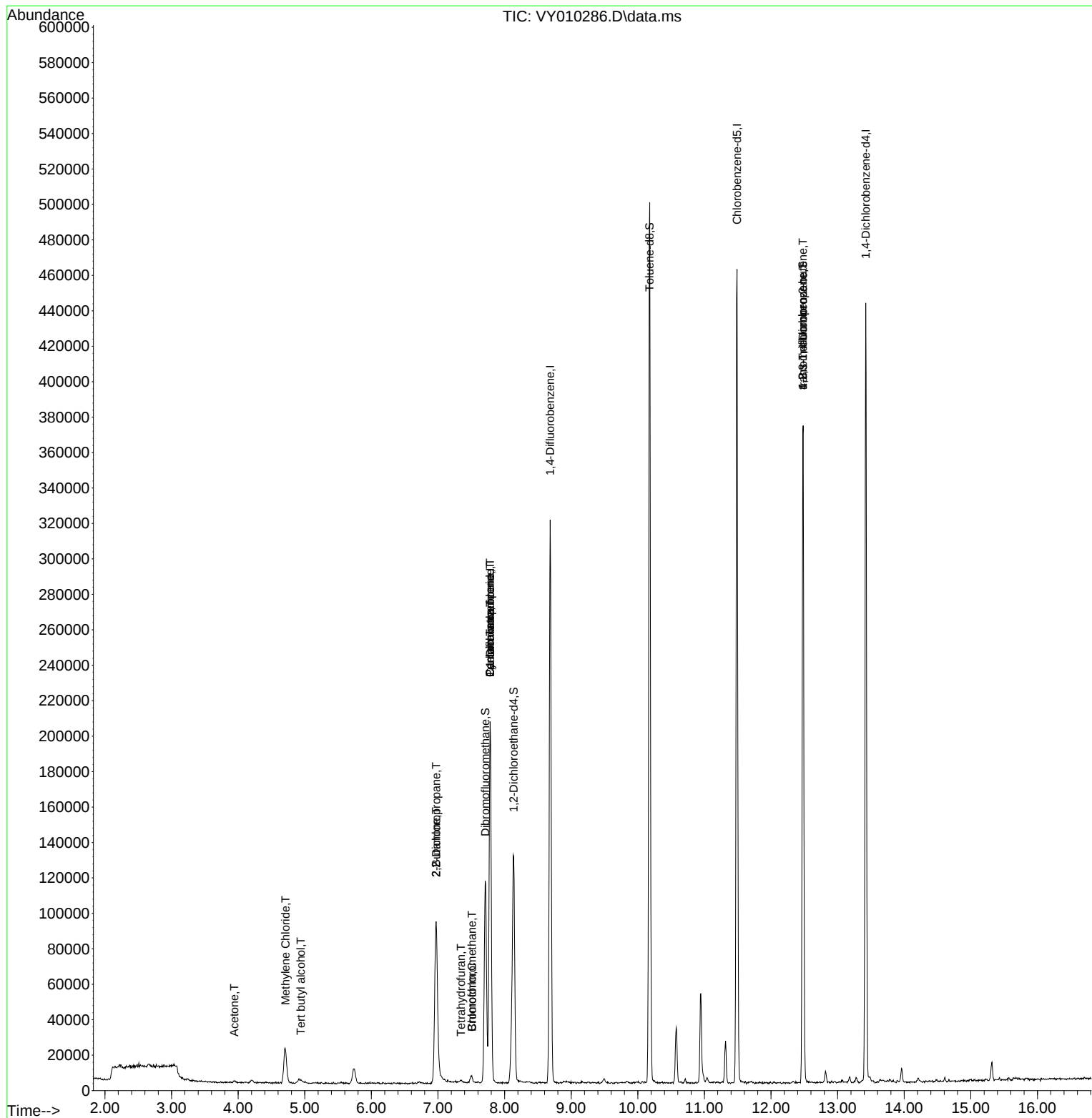
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 161843   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 274905   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 254604   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 113647   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 91591    | 55.191    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 110.380% |
| 35) Dibromofluoromethane      | 7.710  | 113   | 83319    | 45.527    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 91.060%  |
| 50) Toluene-d8                | 10.179 | 98    | 327082   | 53.382    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 106.760% |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 114993   | 46.409    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 92.820%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.662  | 94    | 1052     | Below Cal | #      | 45       |
| 11) Tert butyl alcohol        | 4.942  | 59    | 1479     | 7.450     | ug/l # | 80       |
| 16) Acetone                   | 3.942  | 43    | 1429     | 3.445     | ug/l # | 76       |
| 20) Methylene Chloride        | 4.710  | 84    | 14558    | 7.272     | ug/l # | 83       |
| 25) 2-Butanone                | 6.972  | 43    | 5183     | 7.613     | ug/l # | 81       |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 7064     | 2.336     | ug/l # | 56       |
| 28) Bromochloromethane        | 7.508  | 49    | 279      | 1.768     | ug/l # | 16       |
| 29) Tetrahydrofuran           | 7.344  | 42    | 1568     | 3.595     | ug/l # | 78       |
| 30) Chloroform                | 7.508  | 83    | 3761     | 1.150     | ug/l # | 75       |
| 31) Cyclohexane               | 7.783  | 56    | 3289     | 1.016     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 11871    | 4.421     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 15611    | 5.641     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 58833    | 43.501    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 58833    | 90.748    | ug/l # | 7        |
| -----                         |        |       |          |           |        |          |

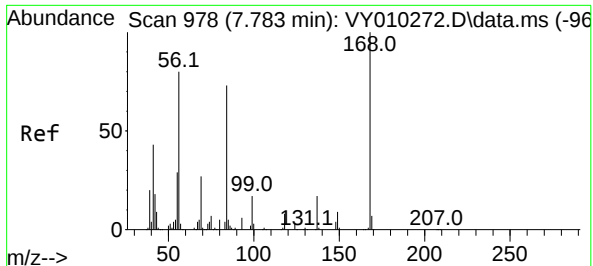
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090222\  
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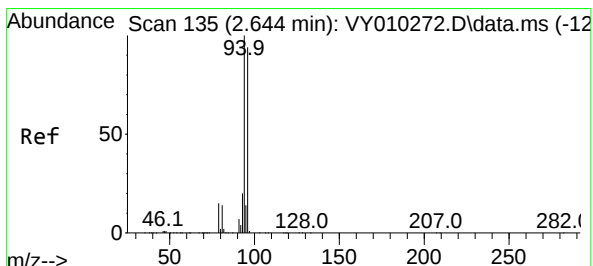
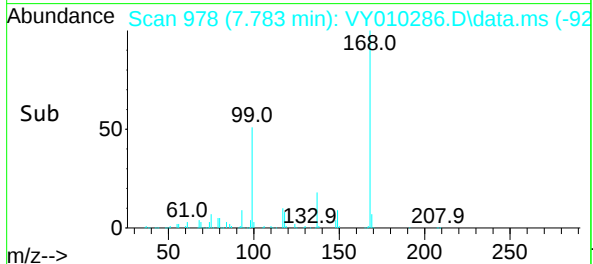
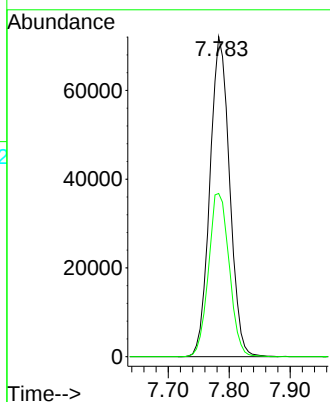
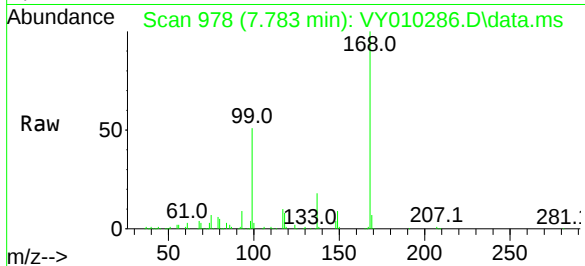




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

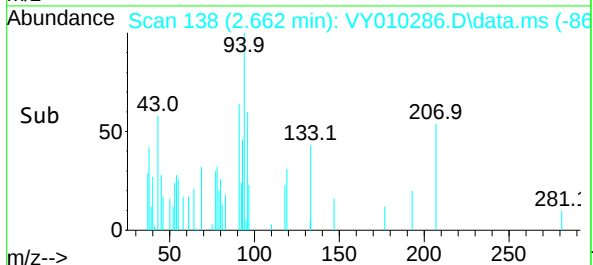
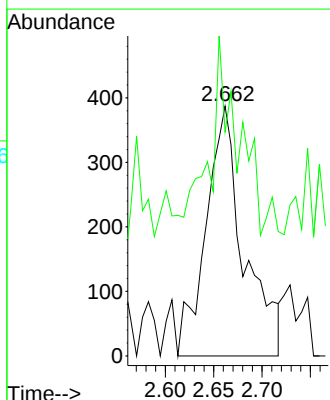
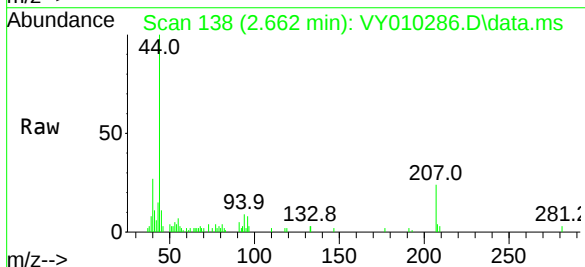
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

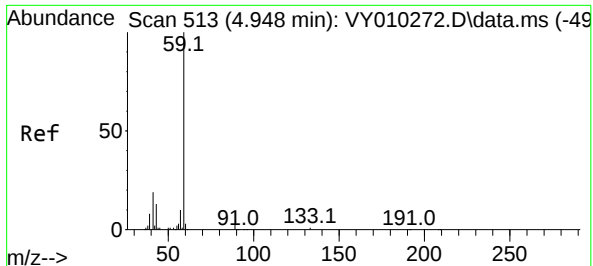
Tgt Ion:168 Resp: 161843  
Ion Ratio Lower Upper  
168 100  
99 51.0 46.9 70.3



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 138  
Delta R.T. 0.018 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 94 Resp: 1052  
Ion Ratio Lower Upper  
94 100  
96 39.8 73.5 110.3#





#11

Tert butyl alcohol

Concen: 7.450 ug/l

RT: 4.942 min Scan# 513

Delta R.T. -0.006 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

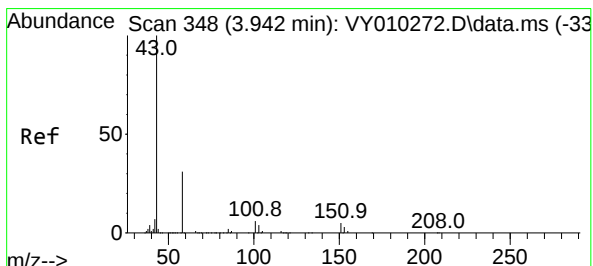
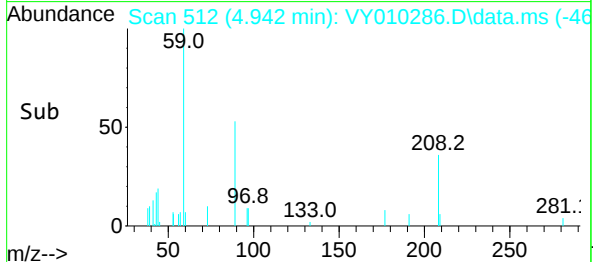
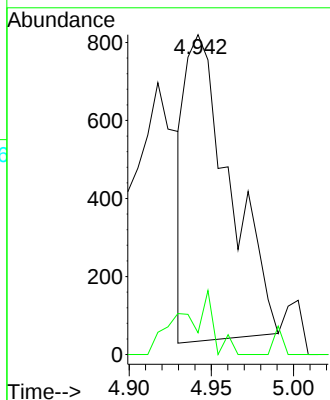
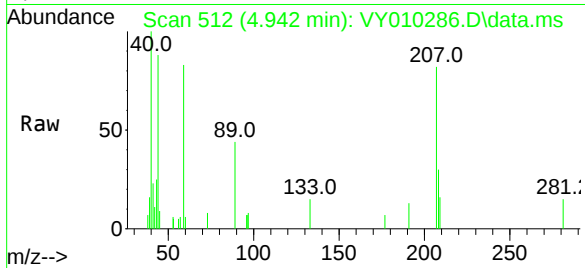
WC-1

Tgt Ion: 59 Resp: 1479

Ion Ratio Lower Upper

59 100

57 15.0 6.4 9.6#



#16

Acetone

Concen: 3.445 ug/l

RT: 3.942 min Scan# 348

Delta R.T. 0.000 min

Lab File: VY010286.D

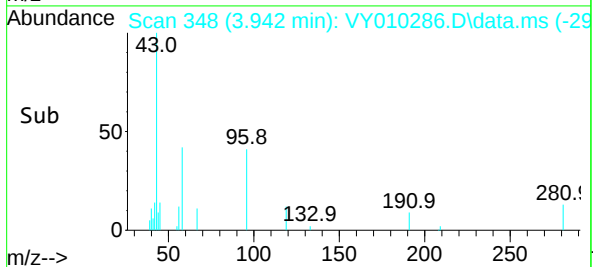
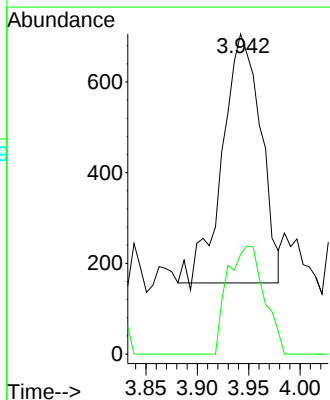
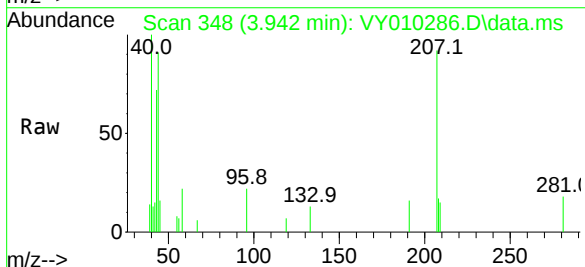
Acq: 02 Sep 2022 18:04

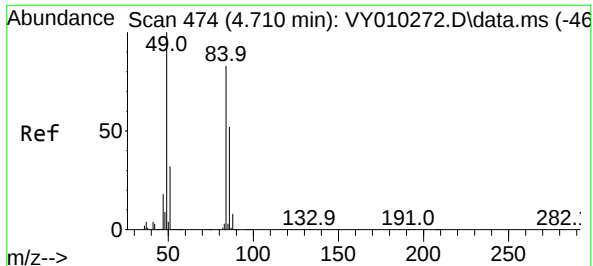
Tgt Ion: 43 Resp: 1429

Ion Ratio Lower Upper

43 100

58 40.1 22.0 33.0#

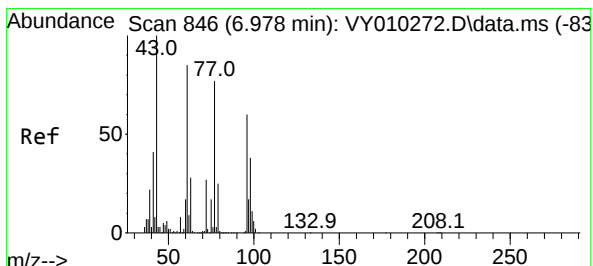
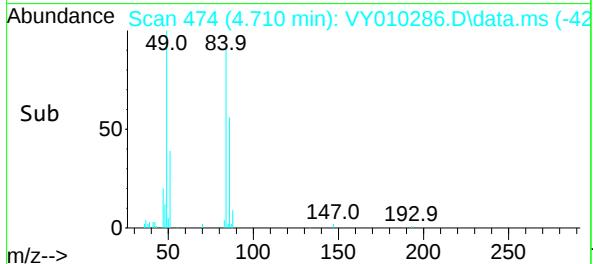
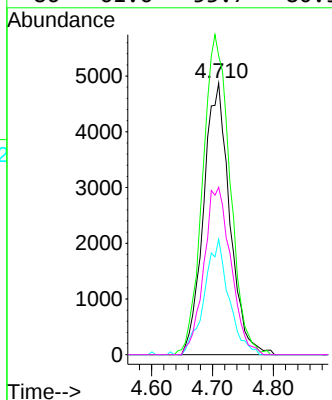
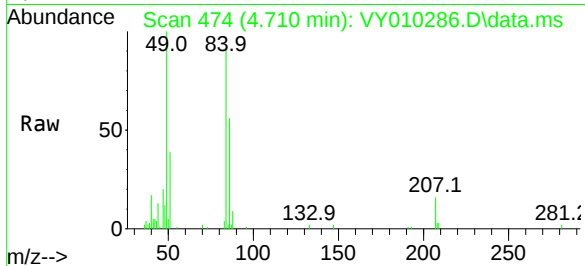




#20  
Methylene Chloride  
Concen: 7.272 ug/l  
RT: 4.710 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

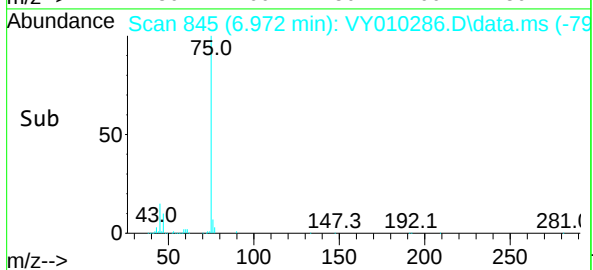
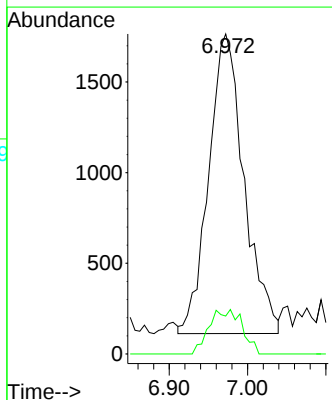
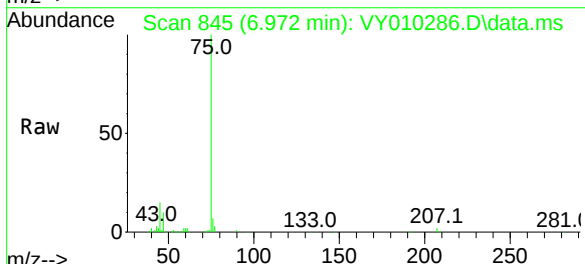
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

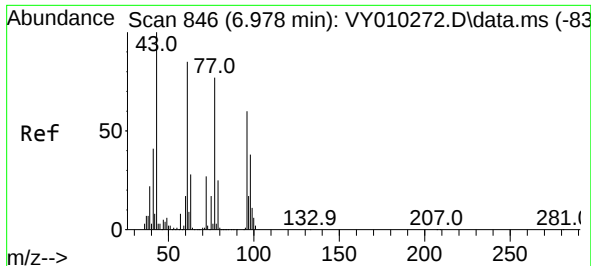
Tgt Ion: 84 Resp: 14558  
Ion Ratio Lower Upper  
84 100  
49 110.1 114.4 171.6#  
51 42.5 35.3 52.9  
86 61.6 53.7 80.5



#25  
2-Butanone  
Concen: 7.613 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. -0.006 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 43 Resp: 5183  
Ion Ratio Lower Upper  
43 100  
72 13.0 17.7 26.5#





#26

2,2-Dichloropropane

Concen: 2.336 ug/l

RT: 6.972 min Scan# 846

Delta R.T. -0.006 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

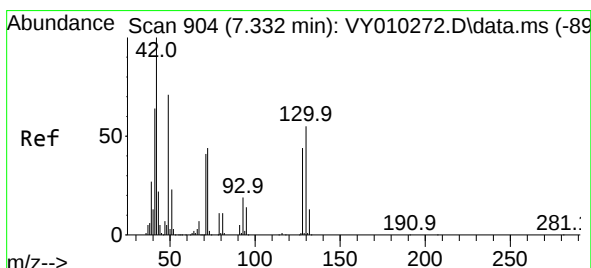
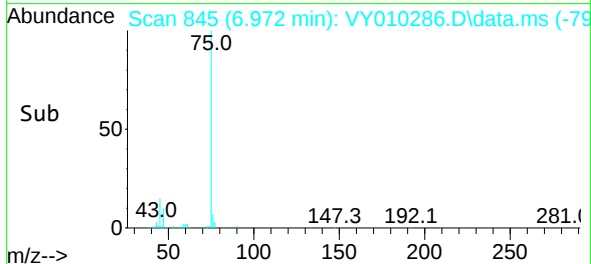
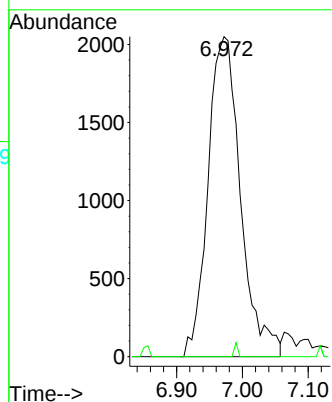
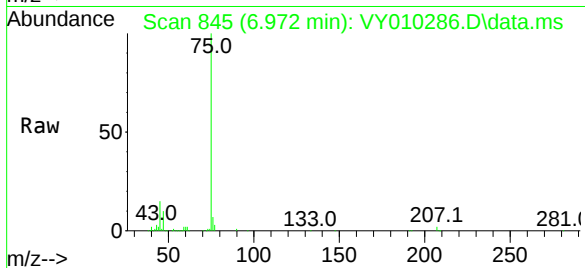
WC-1

Tgt Ion: 77 Resp: 7064

Ion Ratio Lower Upper

77 100

97 0.5 10.4 31.4#



#28

Bromochloromethane

Concen: 1.768 ug/l

RT: 7.508 min Scan# 933

Delta R.T. 0.176 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

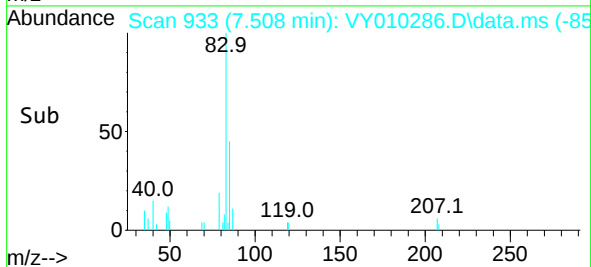
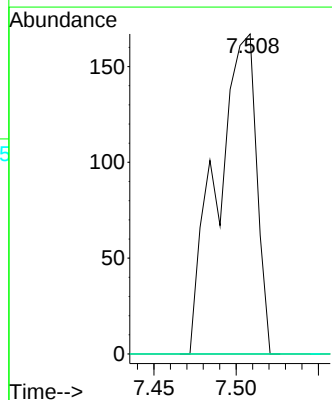
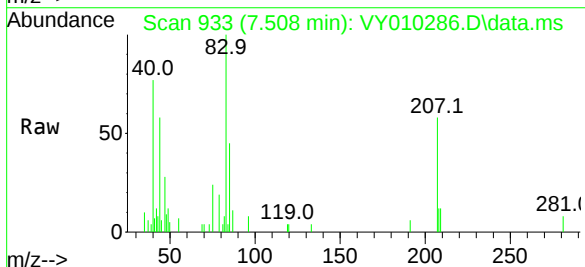
Tgt Ion: 49 Resp: 279

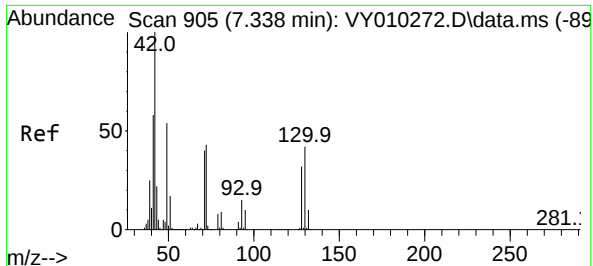
Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.2

130 0.0 55.4 83.0#





#29

Tetrahydrofuran

Concen: 3.595 ug/l

RT: 7.344 min Scan# 905

Delta R.T. 0.006 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

WC-1

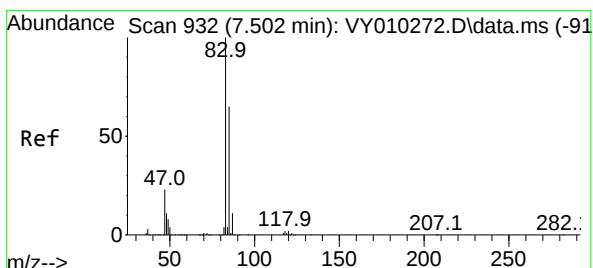
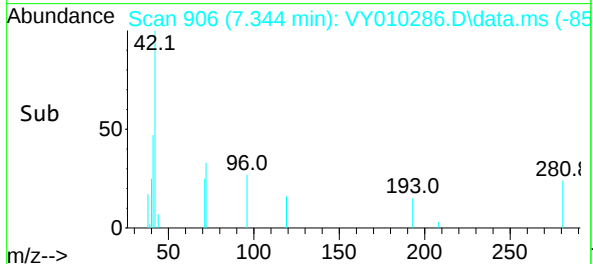
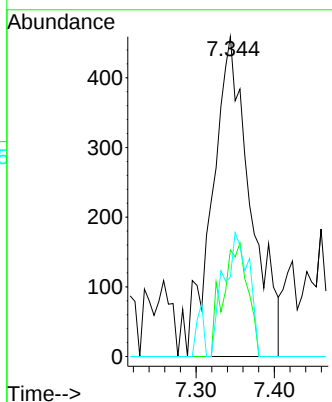
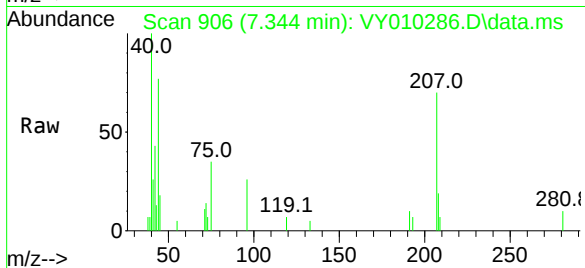
Tgt Ion: 42 Resp: 1568

Ion Ratio Lower Upper

42 100

72 22.9 30.3 45.5#

71 25.1 29.0 43.4#



#30

Chloroform

Concen: 1.150 ug/l

RT: 7.508 min Scan# 933

Delta R.T. 0.006 min

Lab File: VY010286.D

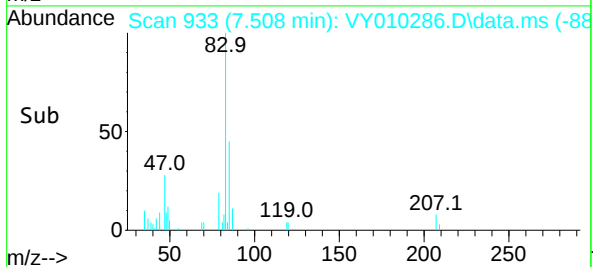
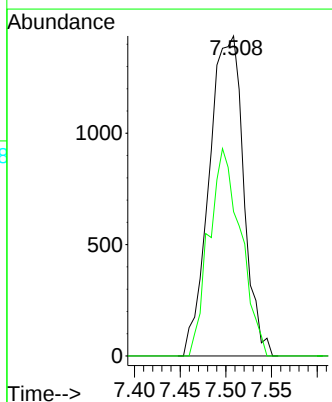
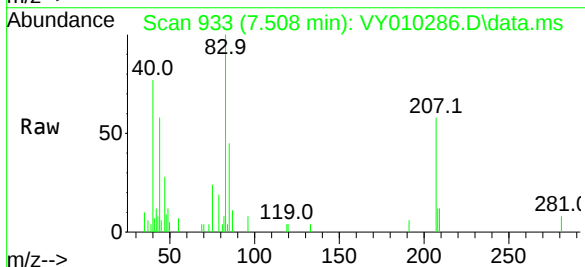
Acq: 02 Sep 2022 18:04

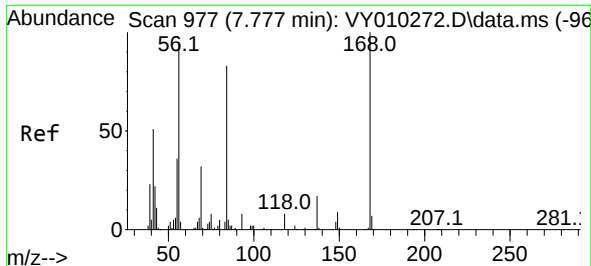
Tgt Ion: 83 Resp: 3761

Ion Ratio Lower Upper

83 100

85 45.1 51.8 77.6#

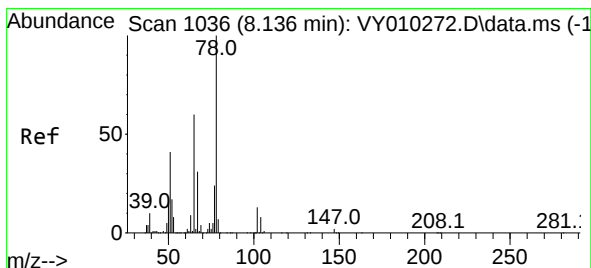
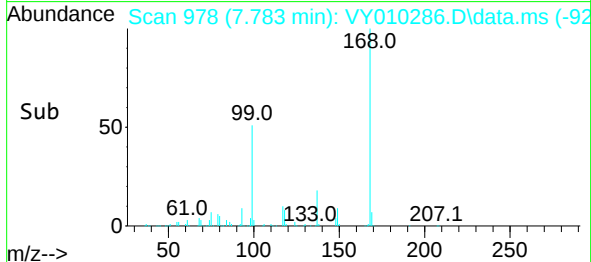
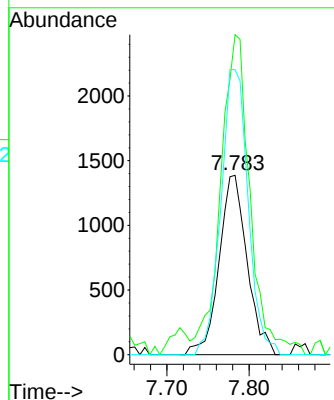
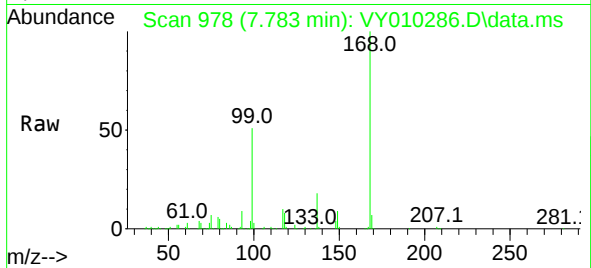




#31  
Cyclohexane  
Concen: 1.016 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

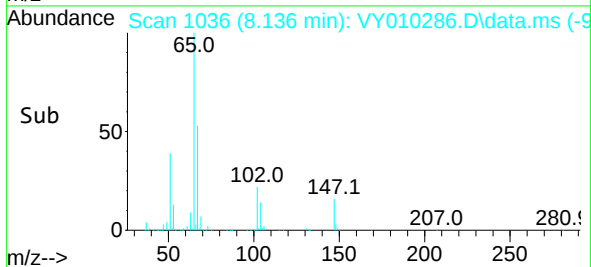
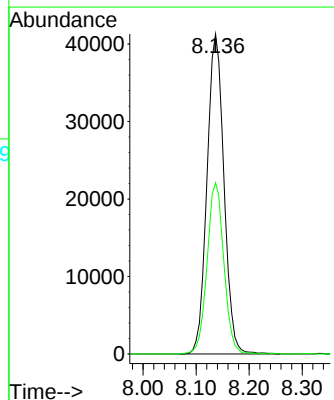
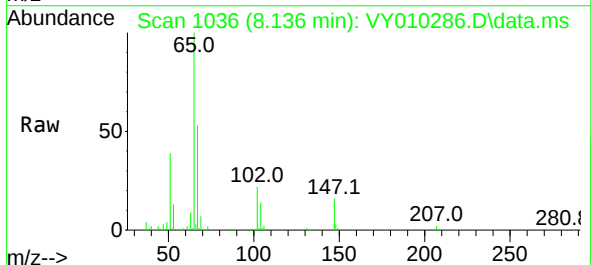
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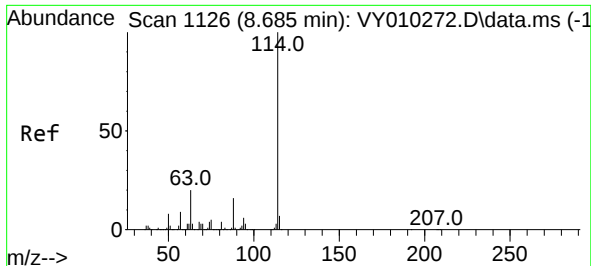
Tgt Ion: 56 Resp: 3289  
Ion Ratio Lower Upper  
56 100  
69 169.7 26.7 40.1#  
84 158.8 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 55.191 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 65 Resp: 91591  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

WC-1

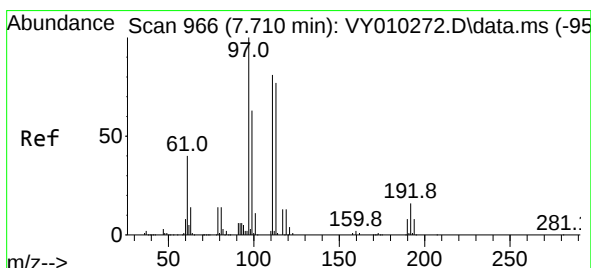
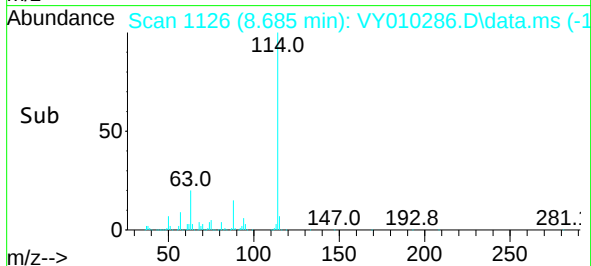
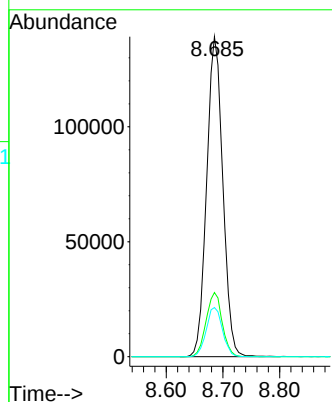
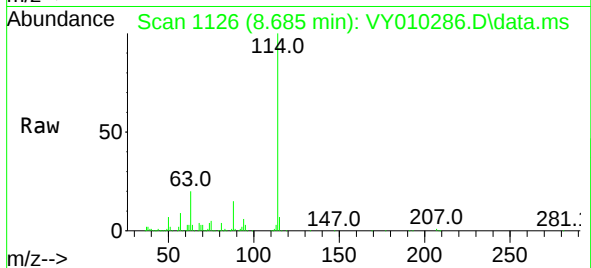
Tgt Ion:114 Resp: 274905

Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.2

88 15.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 45.527 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY010286.D

Acq: 02 Sep 2022 18:04

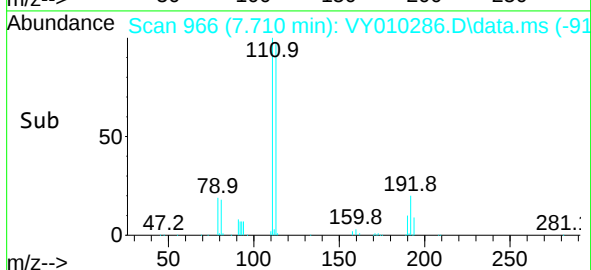
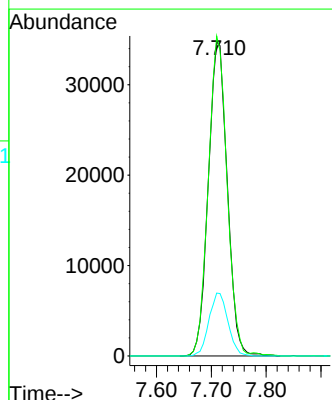
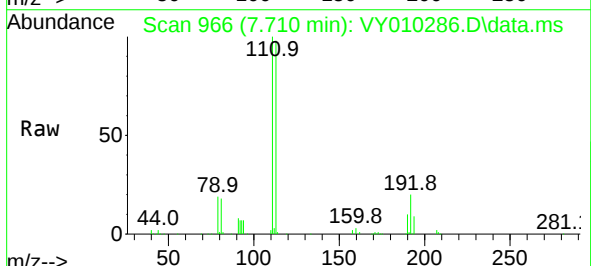
Tgt Ion:113 Resp: 83319

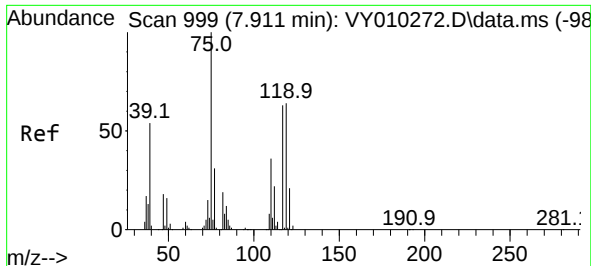
Ion Ratio Lower Upper

113 100

111 100.3 82.6 124.0

192 20.0 17.6 26.4

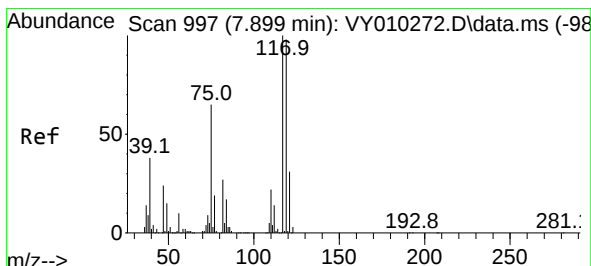
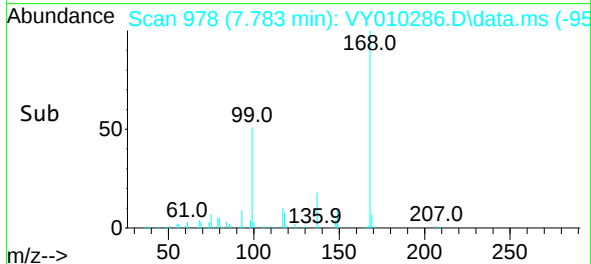
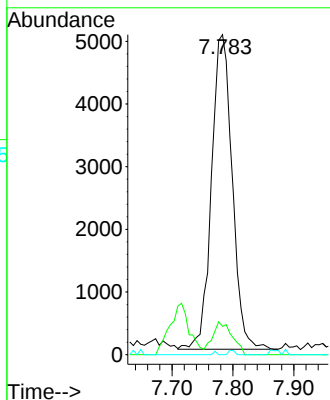
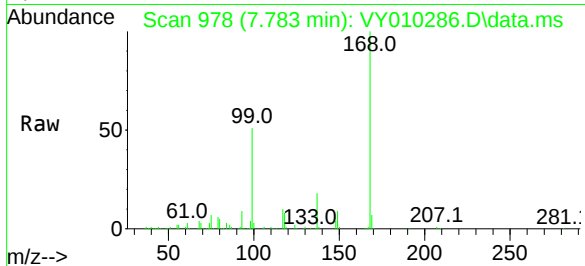




#36  
1,1-Dichloropropene  
Concen: 4.421 ug/l  
RT: 7.783 min Scan# 911  
Delta R.T. -0.128 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

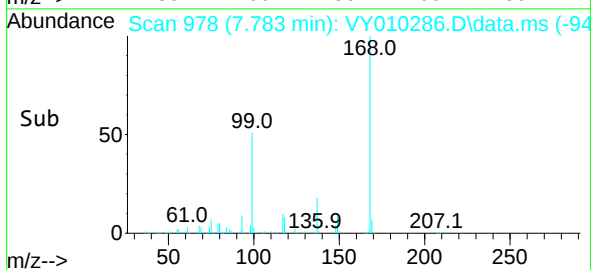
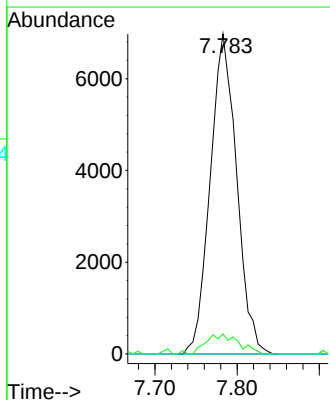
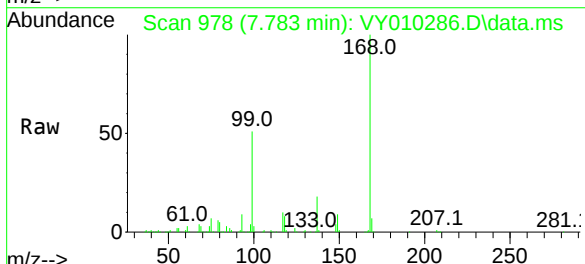
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

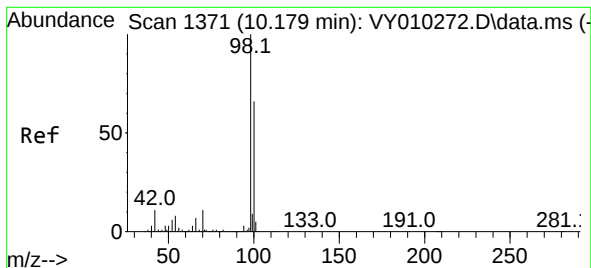
Tgt Ion: 75 Resp: 11871  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.1 51.2#  
77 0.2 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.641 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.116 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 117 Resp: 15611  
Ion Ratio Lower Upper  
117 100  
119 6.2 77.9 116.9#  
121 0.0 24.8 37.2#

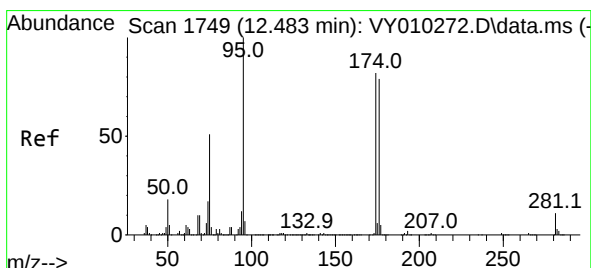
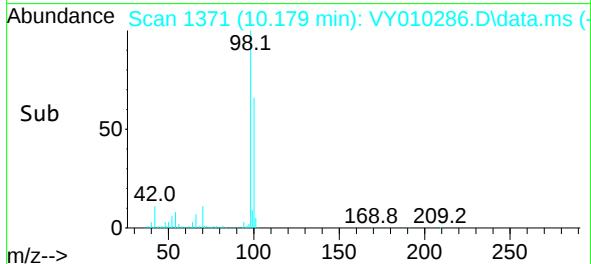
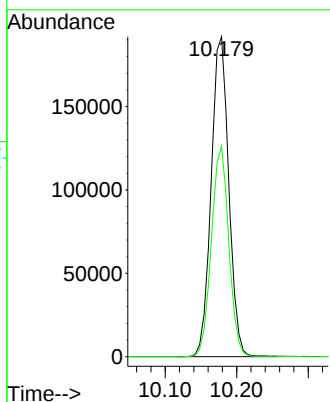
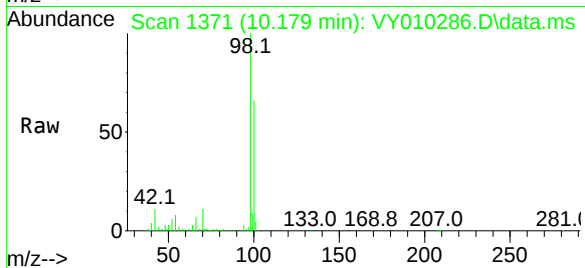




#50  
Toluene-d8  
Concen: 53.382 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

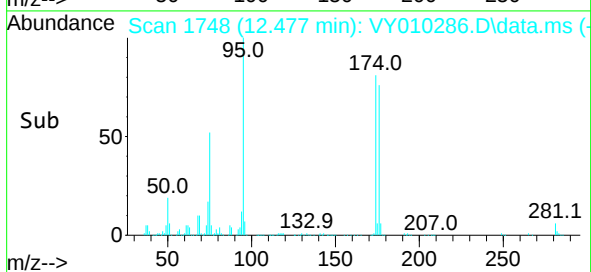
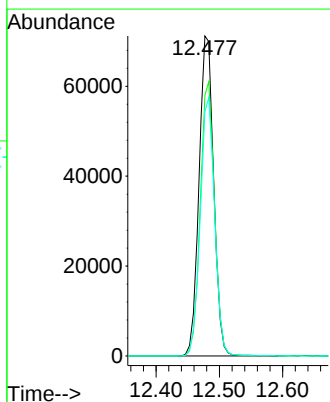
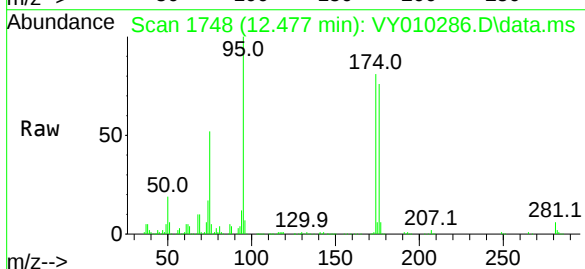
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

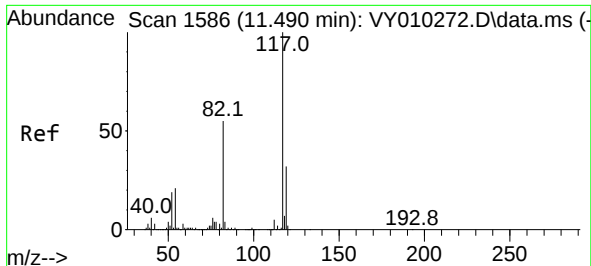
Tgt Ion: 98 Resp: 327082  
Ion Ratio Lower Upper  
98 100  
100 65.2 50.2 75.2



#62  
4-Bromofluorobenzene  
Concen: 46.409 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 95 Resp: 114993  
Ion Ratio Lower Upper  
95 100  
174 83.4 0.0 177.0  
176 79.0 0.0 175.8

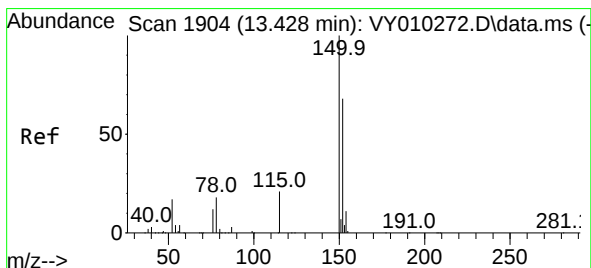
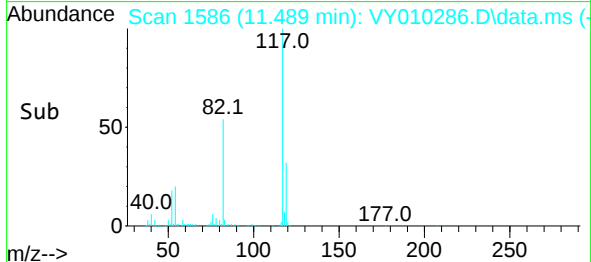
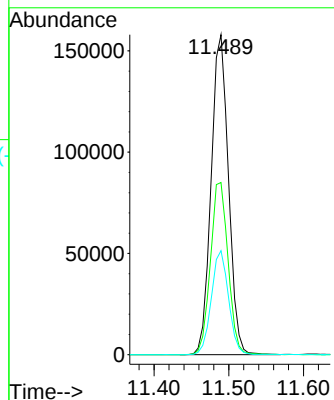
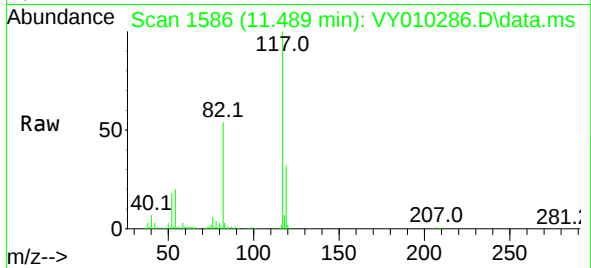




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

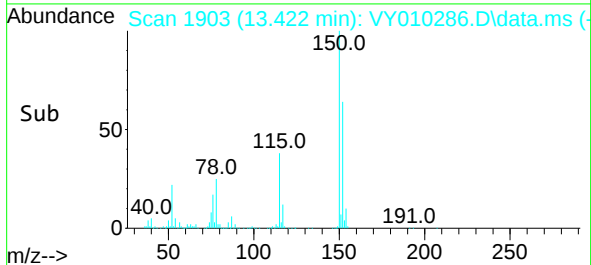
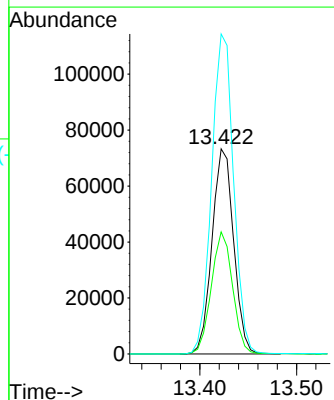
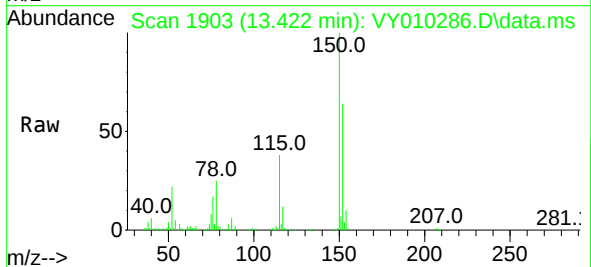
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

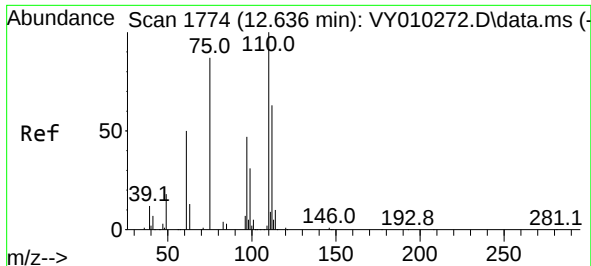
Tgt Ion:117 Resp: 254604  
Ion Ratio Lower Upper  
117 100  
82 53.8 43.0 64.4  
119 32.5 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion:152 Resp: 113647  
Ion Ratio Lower Upper  
152 100  
115 58.7 28.2 84.7  
150 158.6 0.0 347.6

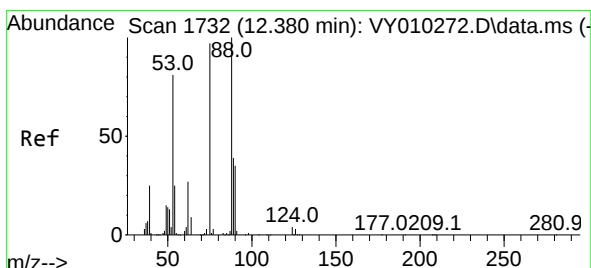
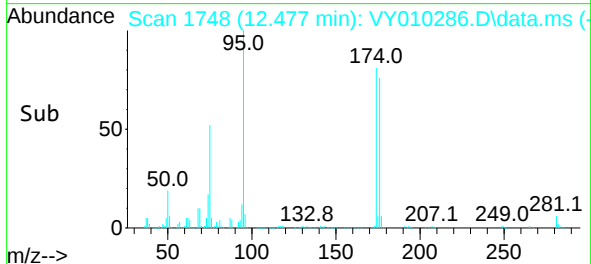
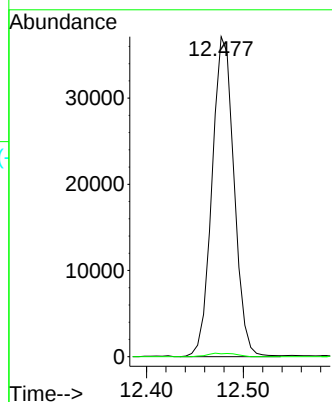
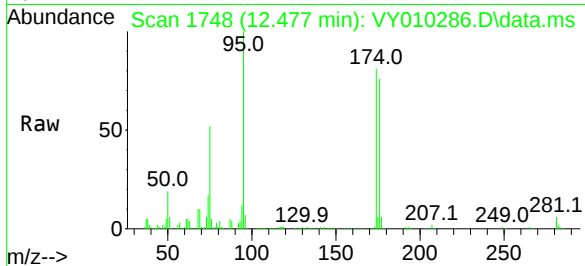




#76  
1,2,3-Trichloropropane  
Concen: 43.501 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.159 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-1

Tgt Ion: 75 Resp: 58833  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 90.748 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY010286.D  
Acq: 02 Sep 2022 18:04

Tgt Ion: 75 Resp: 58833  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.1 37.0 55.4#

