

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081723\  
 Data File : VY015179.D  
 Acq On : 17 Aug 2023 18:03  
 Operator : SY/MD  
 Sample : 04070-01  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 18 00:56:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

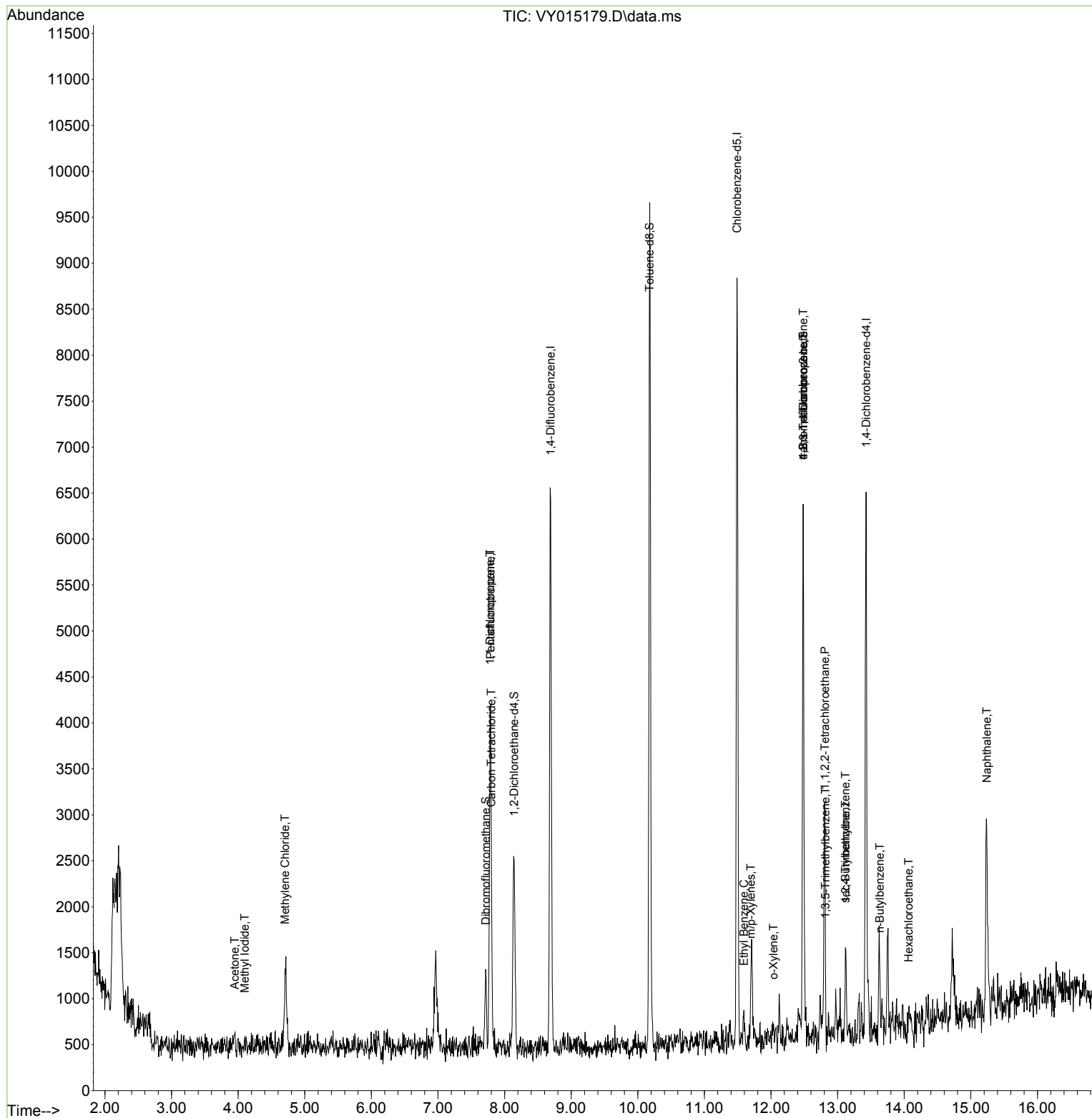
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 3399     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 5709     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 4992     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 1688     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.142  | 65    | 1816     | 44.508    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 89.020%  |
| 35) Dibromofluoromethane      | 7.716  | 113   | 529      | 14.403    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 28.800%# |
| 50) Toluene-d8                | 10.178 | 98    | 6270     | 45.859    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 91.720%  |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 1891     | 37.867    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 75.740%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.119  | 50    | 76       | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 4.100  | 142   | 44       | 1.582     | ug/l # | 38       |
| 16) Acetone                   | 3.948  | 43    | 74       | 5.552     | ug/l # | 46       |
| 20) Methylene Chloride        | 4.704  | 84    | 605      | 15.992    | ug/l # | 82       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 149      | 3.667     | ug/l # | 41       |
| 38) Carbon Tetrachloride      | 7.801  | 117   | 317      | 6.592     | ug/l # | 12       |
| 67) Ethyl Benzene             | 11.593 | 91    | 358      | 2.246     | ug/l # | 44       |
| 68) m/p-Xylenes               | 11.697 | 106   | 243      | 4.015     | ug/l # | 62       |
| 69) o-Xylene                  | 12.038 | 106   | 89       | 1.476     | ug/l   | 37       |
| 75) 1,1,2,2-Tetrachloroethane | 12.812 | 83    | 69       | 2.441     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 1157     | 56.417    | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105   | 234      | 2.586     | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 1157     | 123.919   | ug/l # | 10       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 732      | 8.096     | ug/l   | 89       |
| 85) sec-Butylbenzene          | 13.117 | 105   | 732      | 6.037     | ug/l # | 56       |
| 89) n-Butylbenzene            | 13.635 | 91    | 114      | 1.203     | ug/l # | 35       |
| 90) Hexachloroethane          | 14.068 | 117   | 116      | 5.816     | ug/l # | 8        |
| 95) Naphthalene               | 15.239 | 128   | 2894     | 36.912    | ug/l # | 91       |
| -----                         |        |       |          |           |        |          |

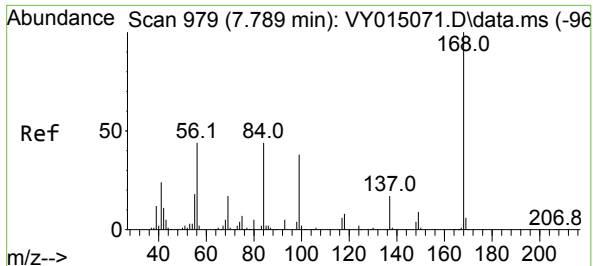
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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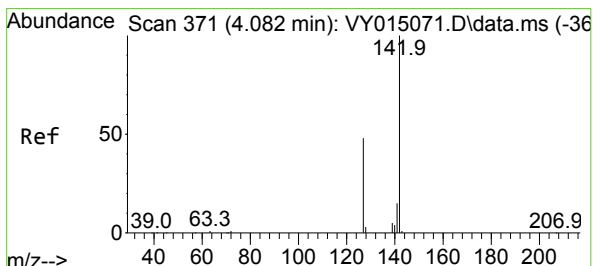
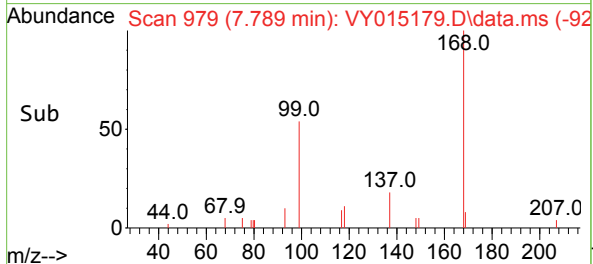
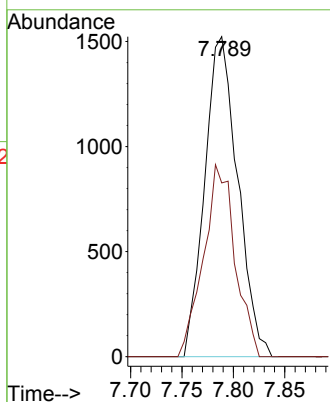
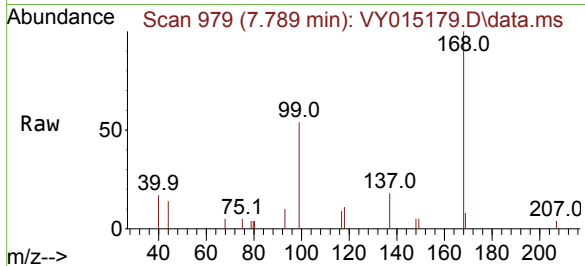




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

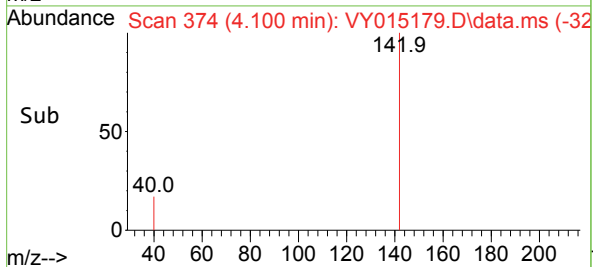
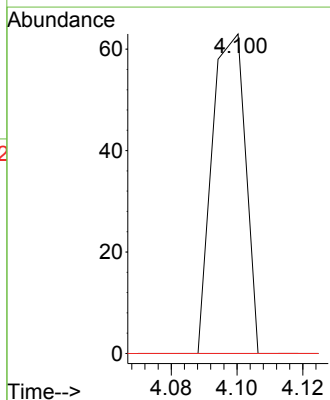
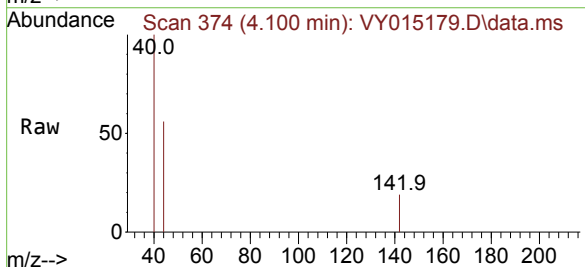
Instrument :  
MSVOA\_Y  
ClientSampleId :

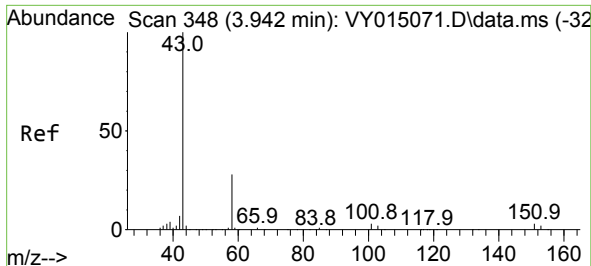
Tgt Ion:168 Resp: 3399  
Ion Ratio Lower Upper  
168 100  
99 54.3 43.4 65.0



#10  
Methyl Iodide  
Concen: 1.582 ug/l  
RT: 4.100 min Scan# 374  
Delta R.T. 0.018 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Tgt Ion:142 Resp: 44  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#

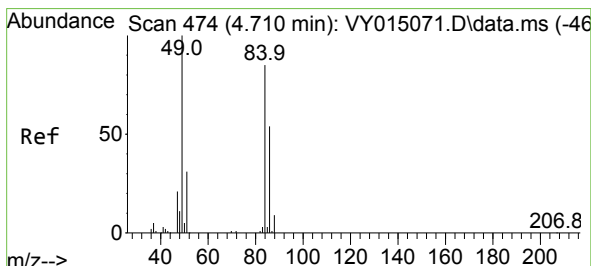
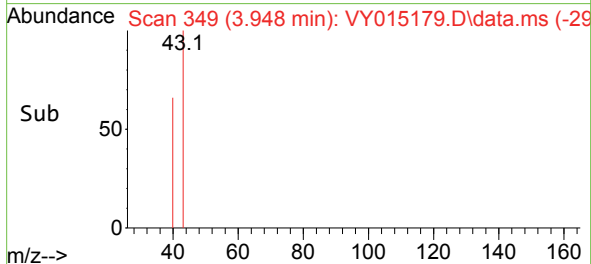
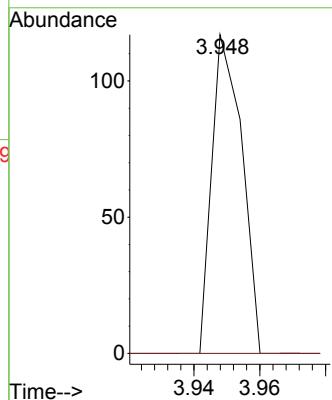
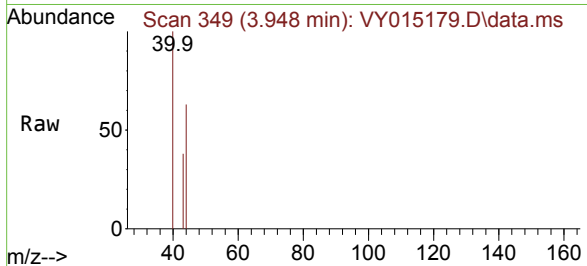




#16  
Acetone  
Concen: 5.552 ug/l  
RT: 3.948 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

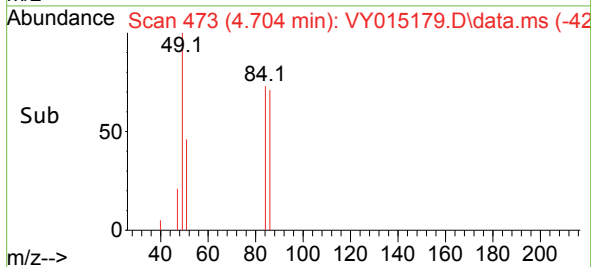
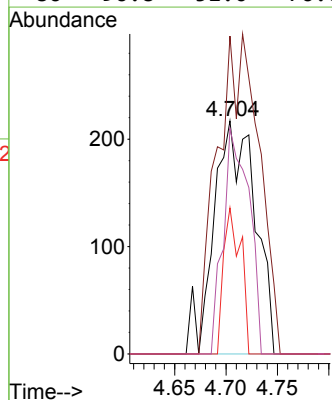
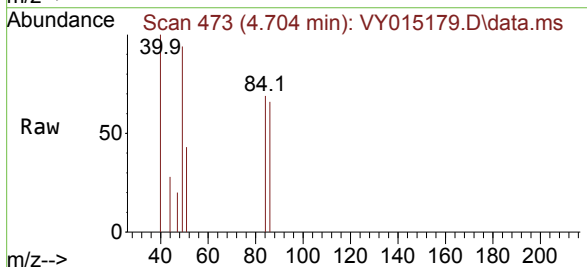
Instrument :  
MSVOA\_Y  
ClientSampleId :

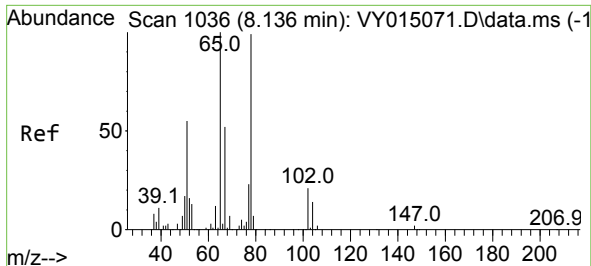
Tgt Ion: 43 Resp: 74  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.7 34.1#



#20  
Methylene Chloride  
Concen: 15.992 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.006 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Tgt Ion: 84 Resp: 605  
Ion Ratio Lower Upper  
84 100  
49 136.4 106.9 160.3  
51 62.7 33.2 49.8#  
86 96.8 51.0 76.6#





#33

1,2-Dichloroethane-d4

Concen: 44.508 ug/l

RT: 8.142 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

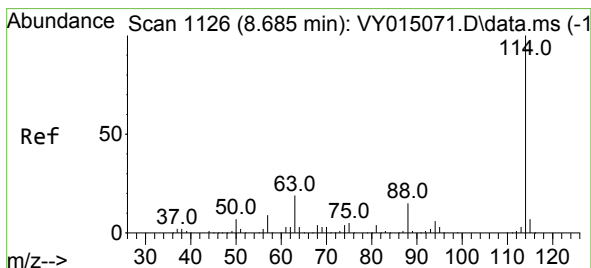
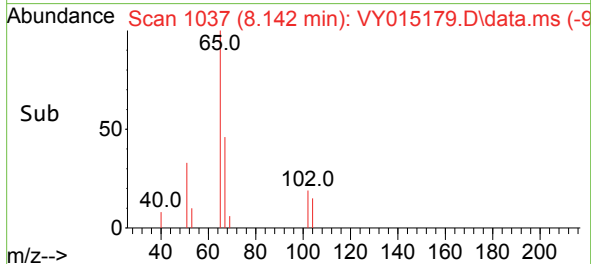
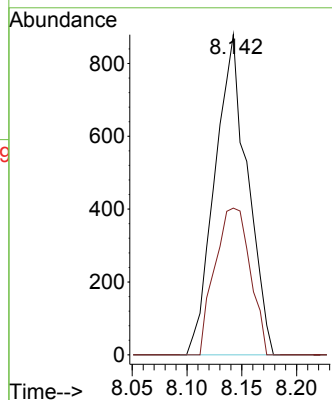
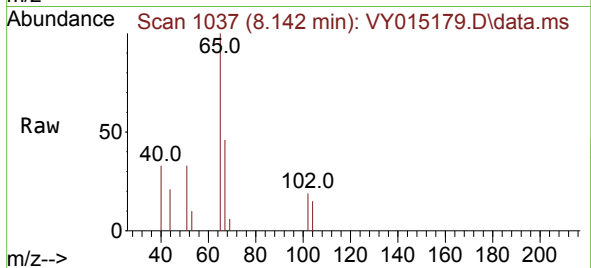
ClientSampleId :

Tgt Ion: 65 Resp: 1816

Ion Ratio Lower Upper

65 100

67 49.6 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

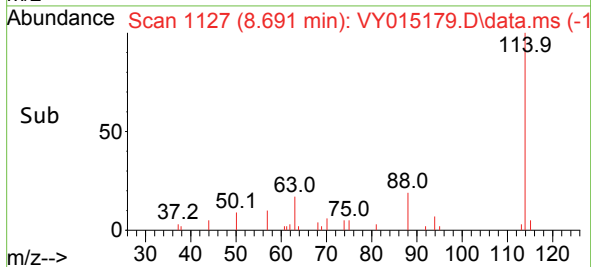
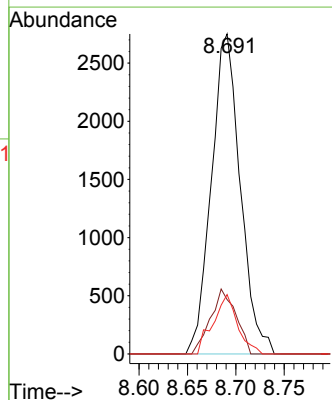
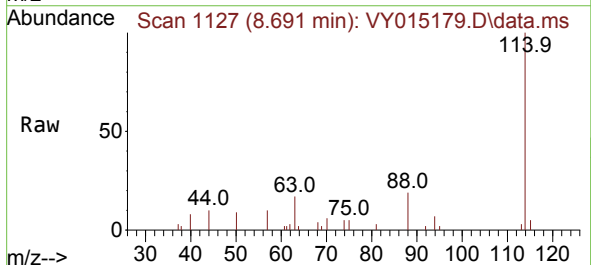
Tgt Ion: 114 Resp: 5709

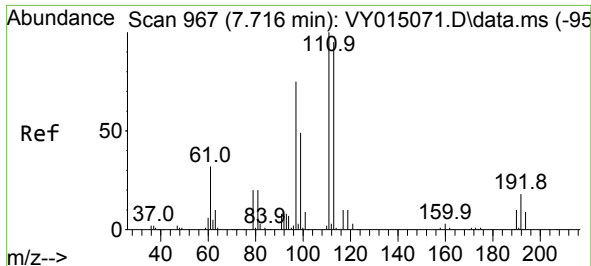
Ion Ratio Lower Upper

114 100

63 17.0 0.0 42.4

88 18.5 0.0 30.6

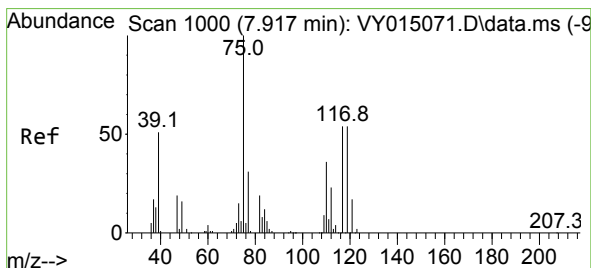
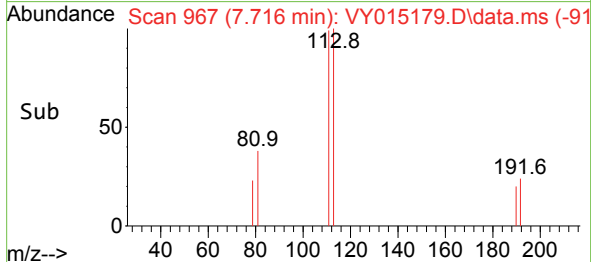
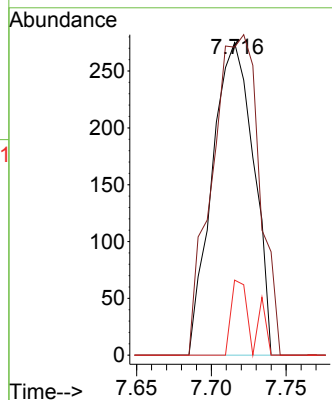
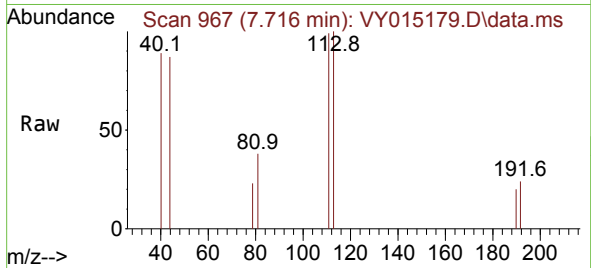




#35  
Dibromofluoromethane  
Concen: 14.403 ug/l  
RT: 7.716 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

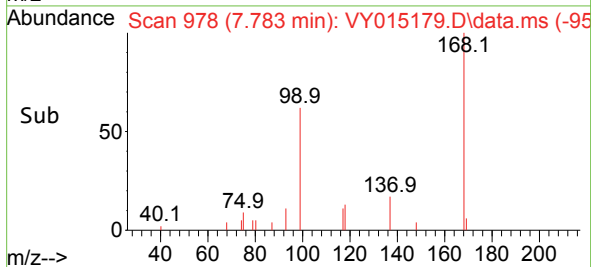
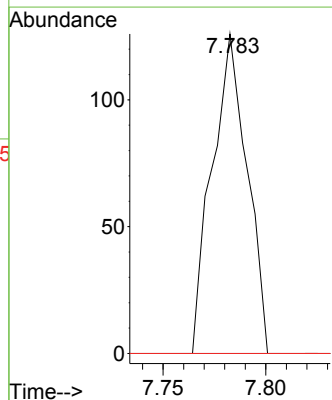
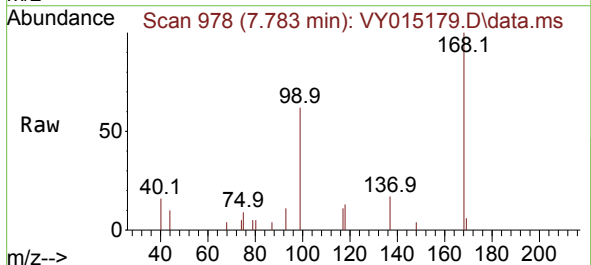
Instrument :  
MSVOA\_Y  
ClientSampleId :

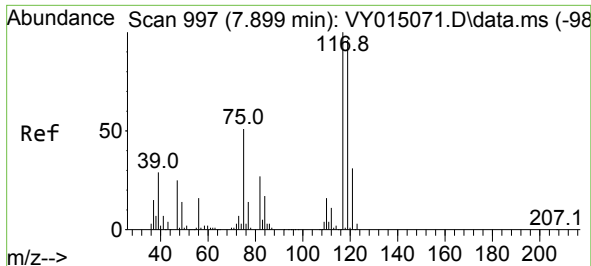
Tgt Ion:113 Resp: 529  
Ion Ratio Lower Upper  
113 100  
111 116.8 81.3 121.9  
192 12.3 16.9 25.3#



#36  
1,1-Dichloropropene  
Concen: 3.667 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

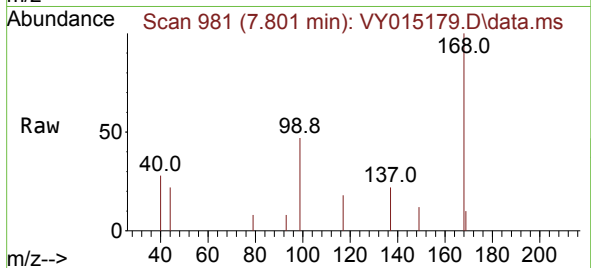
Tgt Ion: 75 Resp: 149  
Ion Ratio Lower Upper  
75 100  
110 0.0 17.8 53.5#  
77 0.0 24.4 36.6#



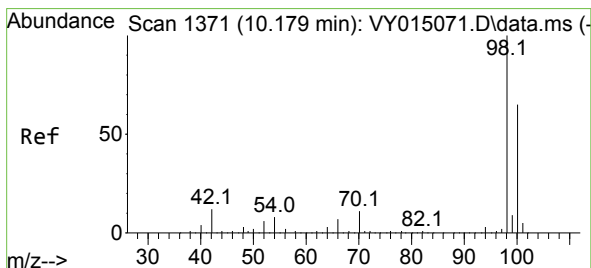
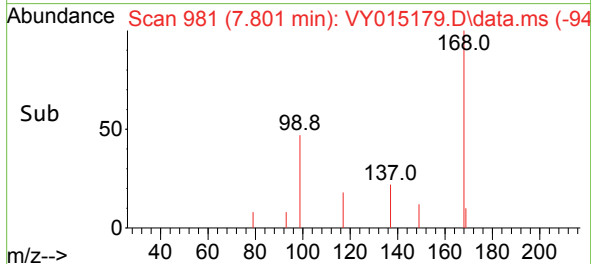
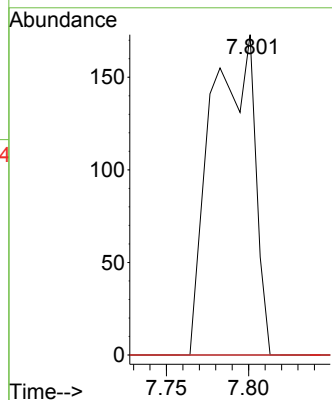


#38  
Carbon Tetrachloride  
Concen: 6.592 ug/l  
RT: 7.801 min Scan# 91  
Delta R.T. -0.098 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Instrument :  
MSVOA\_Y  
ClientSampleId :

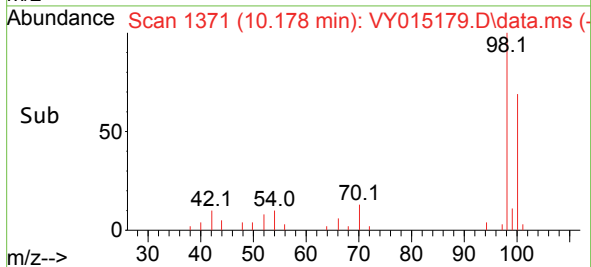
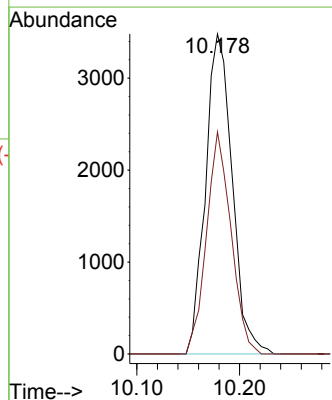
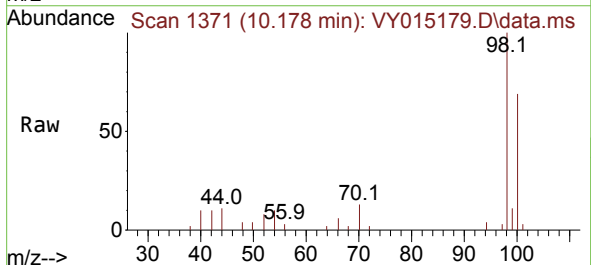


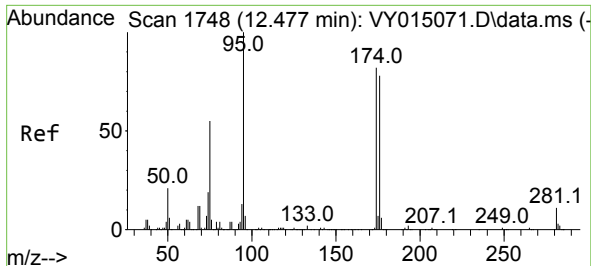
Tgt Ion:117 Resp: 317  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 45.859 ug/l  
RT: 10.178 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Tgt Ion: 98 Resp: 6270  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.1 75.1





#62

4-Bromofluorobenzene

Concen: 37.867 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

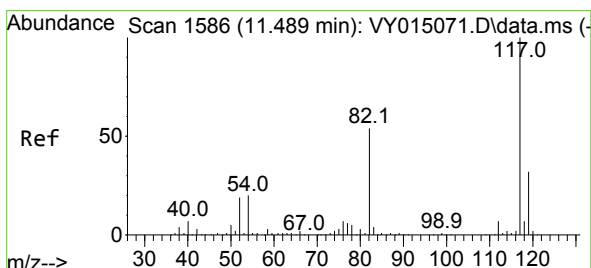
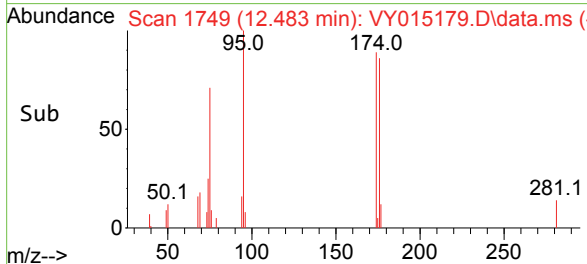
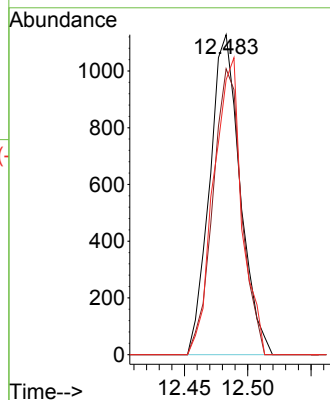
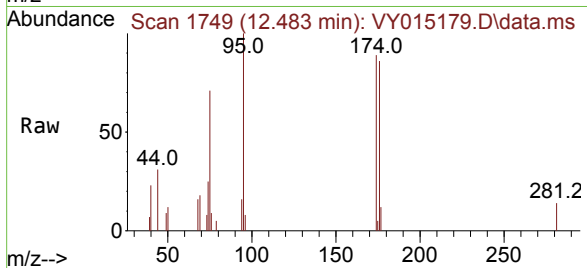
Tgt Ion: 95 Resp: 1891

Ion Ratio Lower Upper

95 100

174 84.1 0.0 178.2

176 85.7 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: VY015179.D

Acq: 17 Aug 2023 18:03

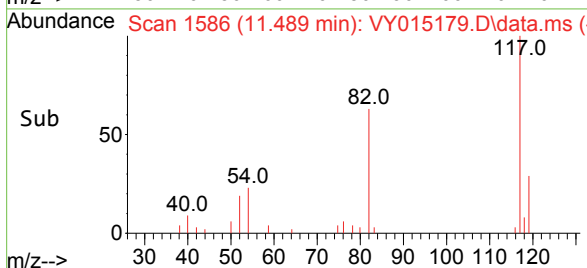
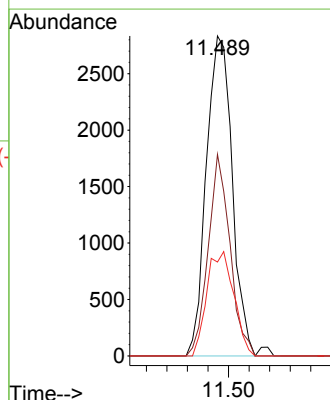
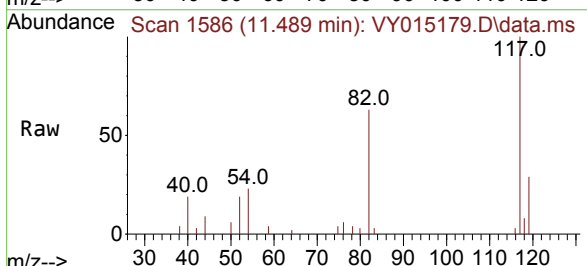
Tgt Ion: 117 Resp: 4992

Ion Ratio Lower Upper

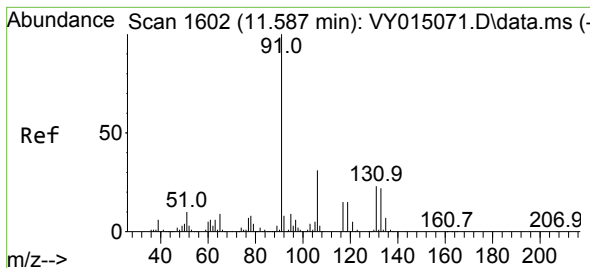
117 100

82 63.0 43.4 65.0

119 29.4 26.3 39.5







#67

Ethyl Benzene

Concen: 2.246 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

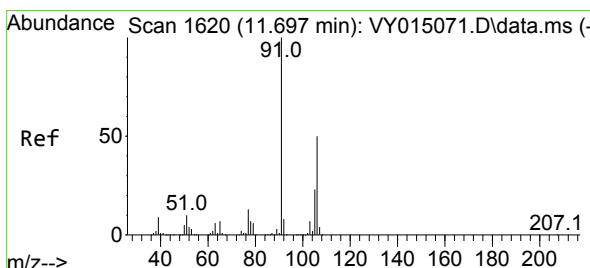
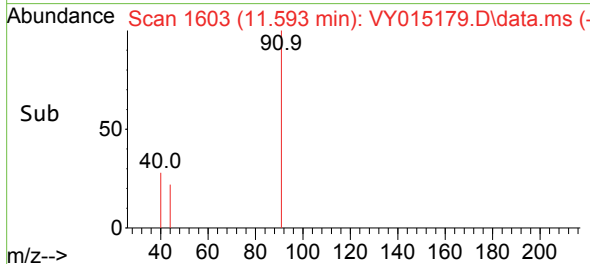
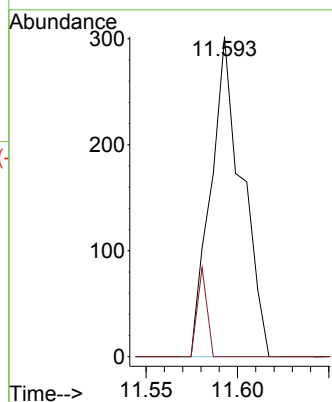
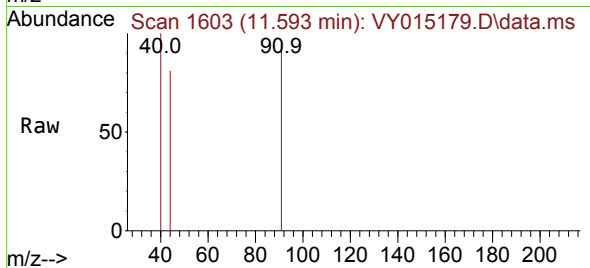
ClientSampleId :

Tgt Ion: 91 Resp: 358

Ion Ratio Lower Upper

91 100

106 0.0 24.6 36.8#



#68

m/p-Xylenes

Concen: 4.015 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.000 min

Lab File: VY015179.D

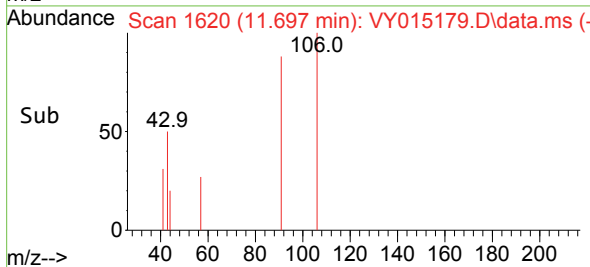
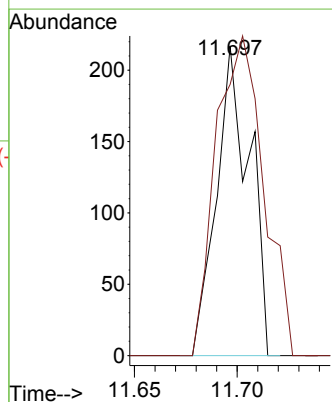
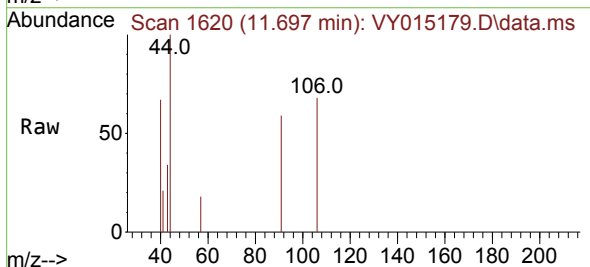
Acq: 17 Aug 2023 18:03

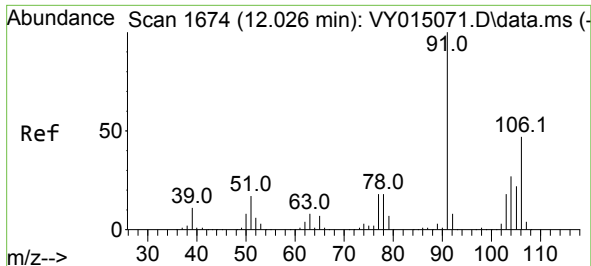
Tgt Ion:106 Resp: 243

Ion Ratio Lower Upper

106 100

91 148.6 166.1 249.1#

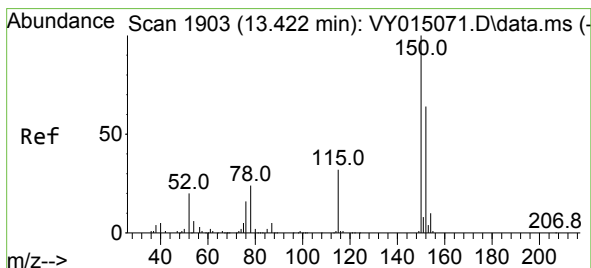
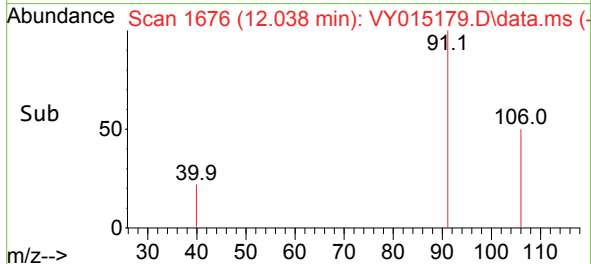
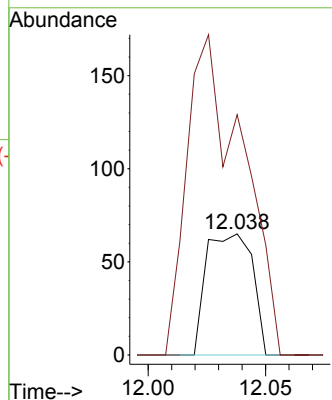
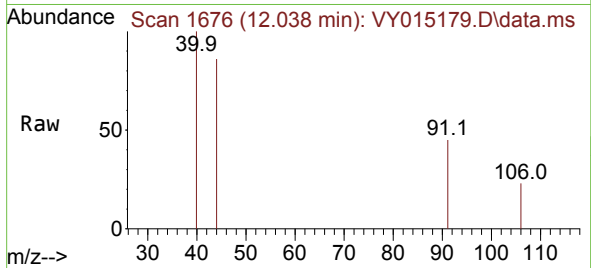




#69  
o-Xylene  
Concen: 1.476 ug/l  
RT: 12.038 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

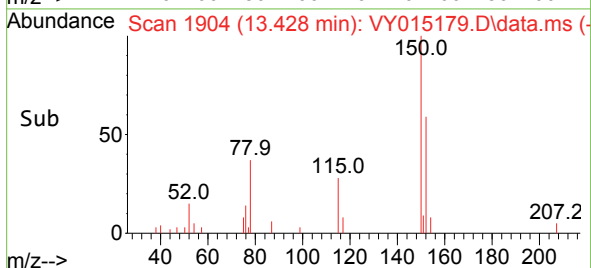
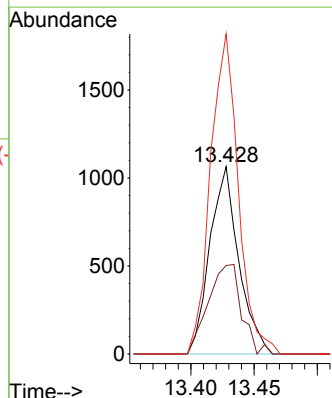
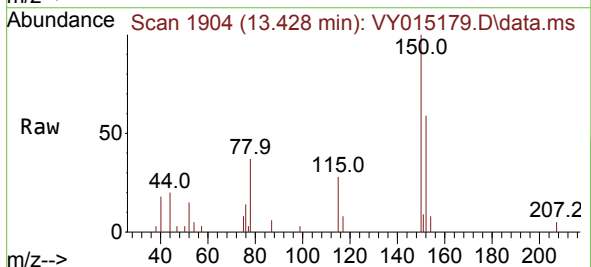
Instrument :  
MSVOA\_Y  
ClientSampleId :

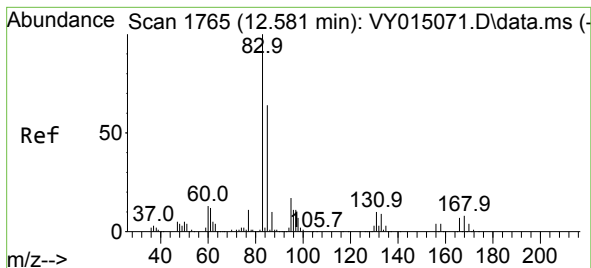
Tgt Ion:106 Resp: 89  
Ion Ratio Lower Upper  
106 100  
91 315.7 108.1 324.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Tgt Ion:152 Resp: 1688  
Ion Ratio Lower Upper  
152 100  
115 54.8 28.8 86.5  
150 164.5 0.0 348.8





#75

1,1,2-Tetrachloroethane

Concen: 2.441 ug/l

RT: 12.812 min Scan# 1765

Delta R.T. 0.231 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

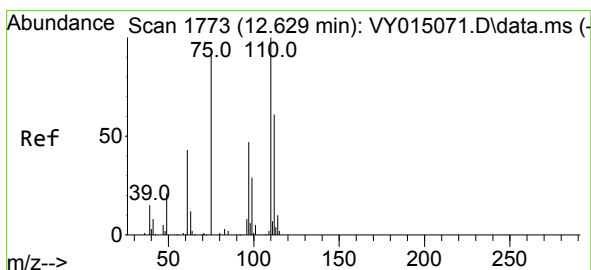
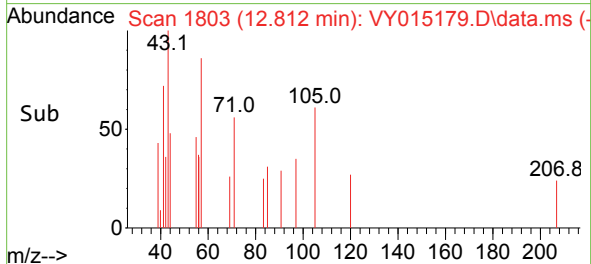
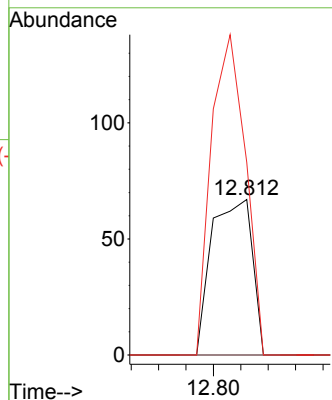
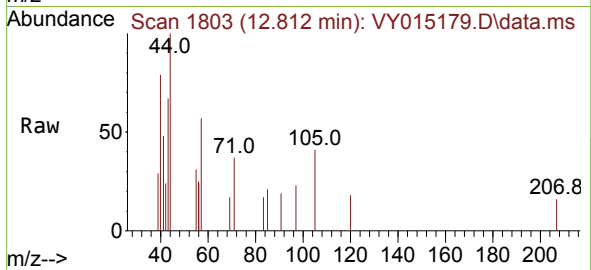
Tgt Ion: 83 Resp: 69

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 173.9 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 56.417 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015179.D

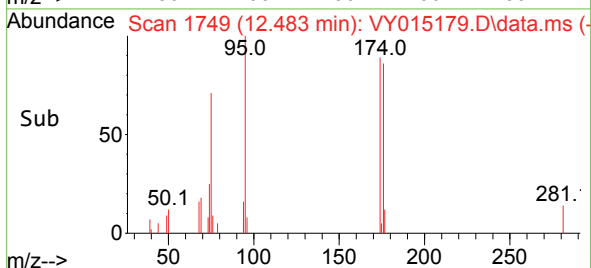
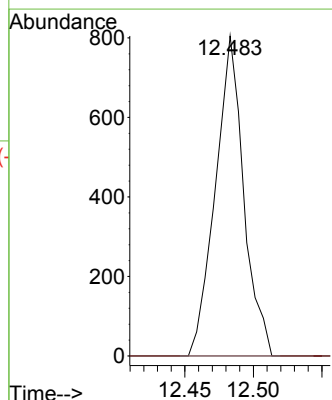
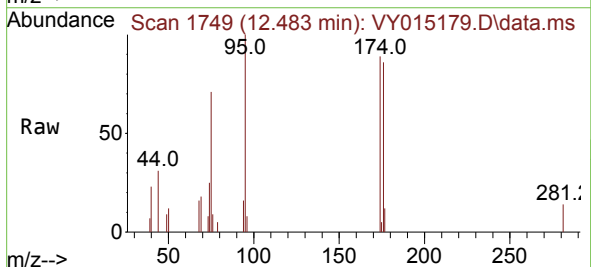
Acq: 17 Aug 2023 18:03

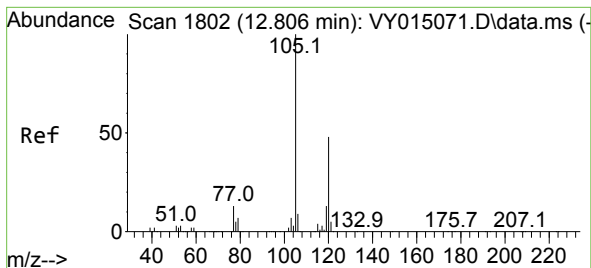
Tgt Ion: 75 Resp: 1157

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#80

1,3,5-Trimethylbenzene

Concen: 2.586 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

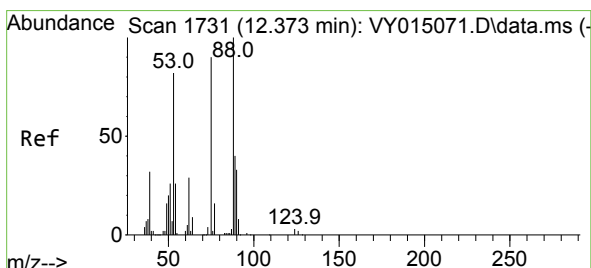
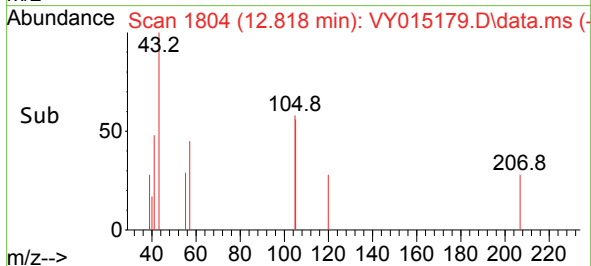
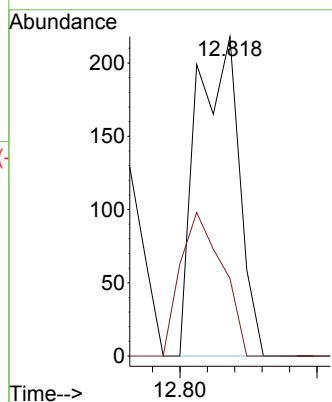
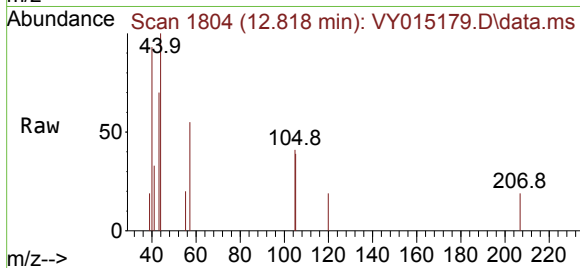
ClientSampleId :

Tgt Ion:105 Resp: 234

Ion Ratio Lower Upper

105 100

120 44.9 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 123.919 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.110 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

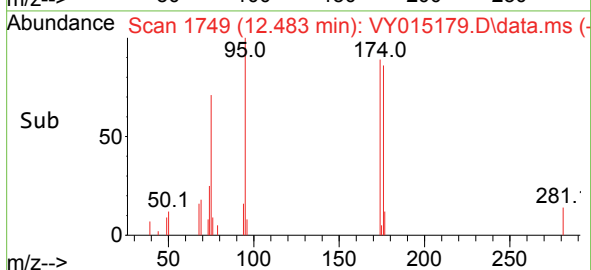
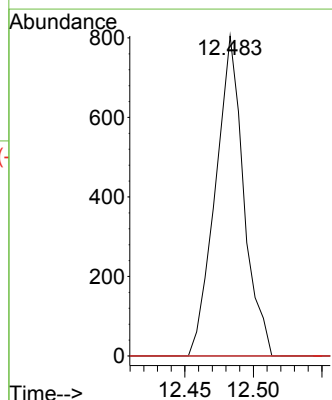
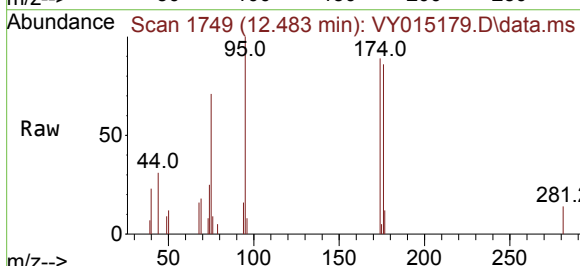
Tgt Ion: 75 Resp: 1157

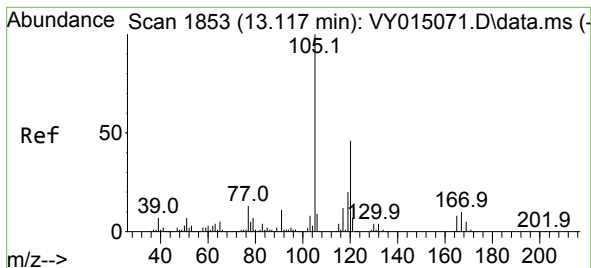
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 8.096 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

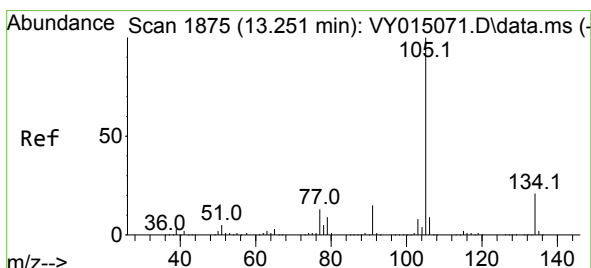
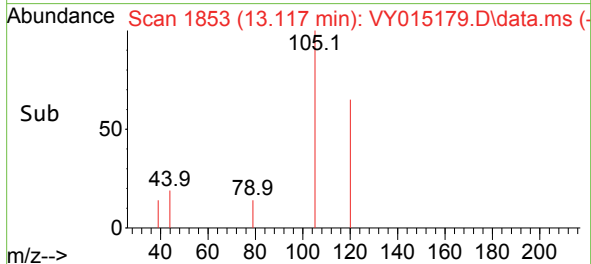
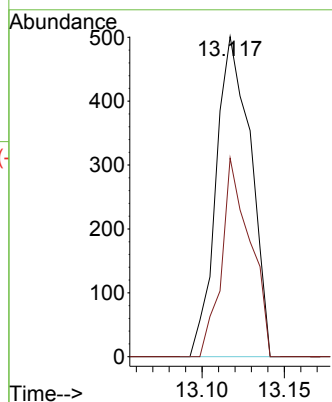
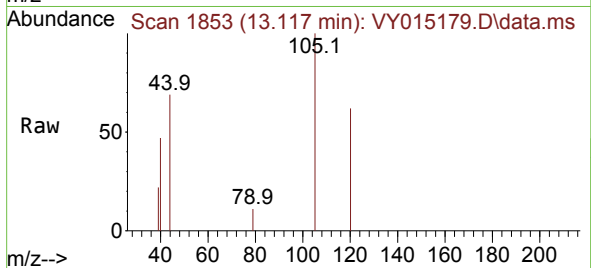
ClientSampleId :

Tgt Ion:105 Resp: 732

Ion Ratio Lower Upper

105 100

120 51.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 6.037 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY015179.D

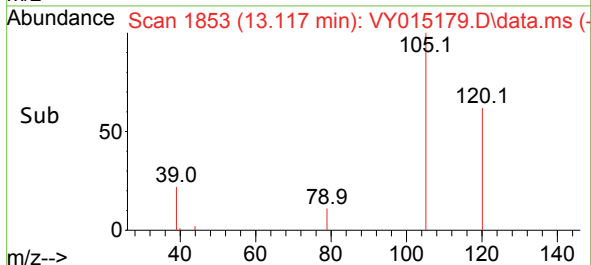
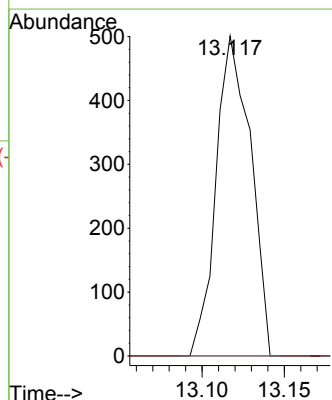
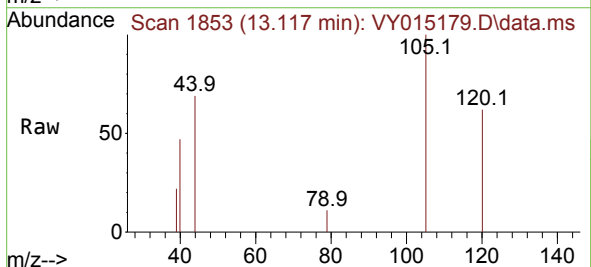
Acq: 17 Aug 2023 18:03

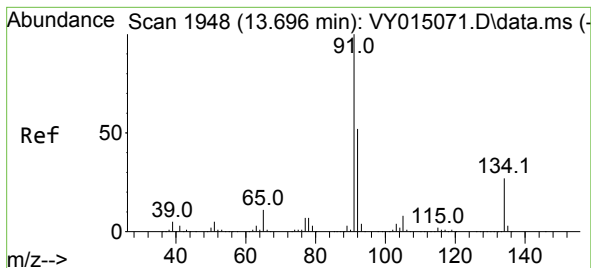
Tgt Ion:105 Resp: 732

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





#89

n-Butylbenzene

Concen: 1.203 ug/l

RT: 13.635 min Scan# 1948

Delta R.T. -0.061 min

Lab File: VY015179.D

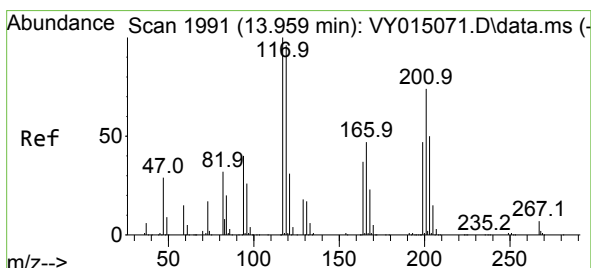
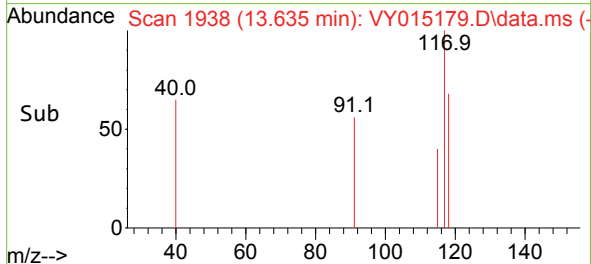
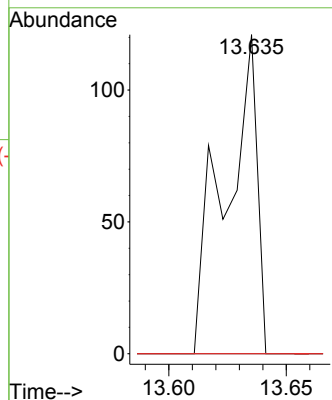
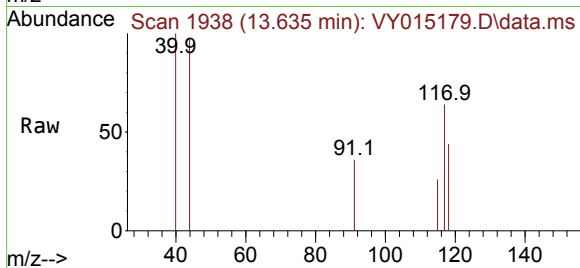
Acq: 17 Aug 2023 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 114   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 0.0   | 25.4  | 76.0# |
| 134      | 0.0   | 12.6  | 37.6# |



#90

Hexachloroethane

Concen: 5.816 ug/l

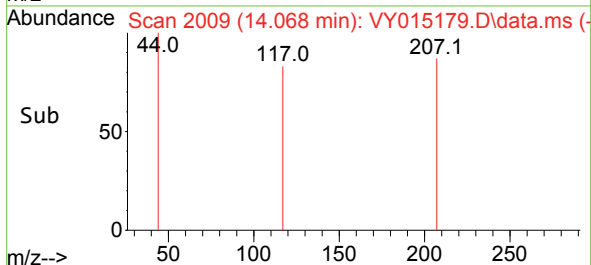
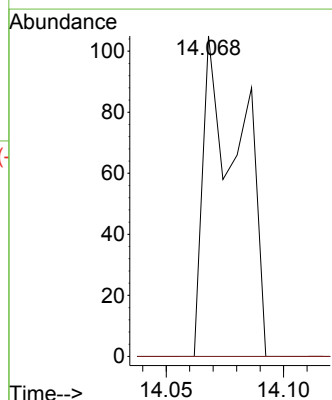
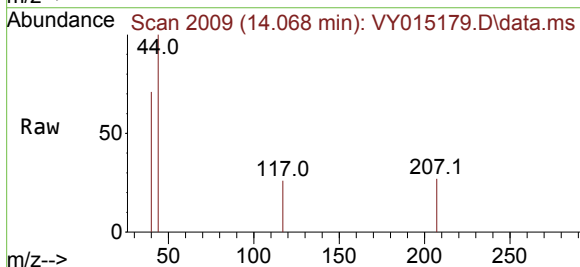
RT: 14.068 min Scan# 2009

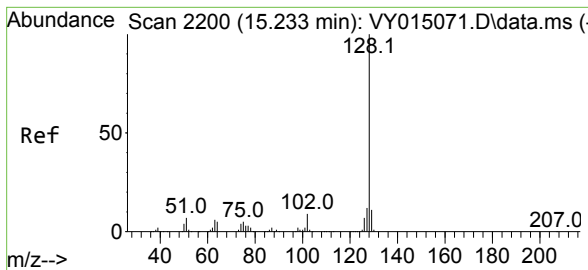
Delta R.T. 0.110 min

Lab File: VY015179.D

Acq: 17 Aug 2023 18:03

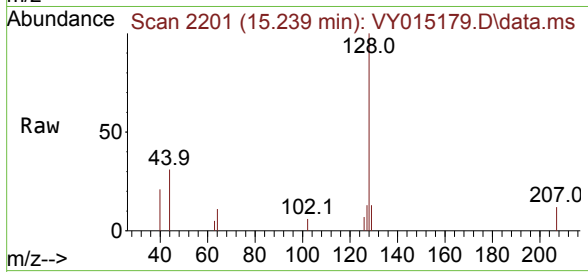
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 116    |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 201      | 0.0   | 41.6  | 124.8# |





#95  
Naphthalene  
Concen: 36.912 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VY015179.D  
Acq: 17 Aug 2023 18:03

Instrument :  
MSVOA\_Y  
ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 2894  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 8.0   | 10.8  | 16.2# |
| 129       | 9.2   | 8.6   | 13.0  |

