

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100323\  
 Data File : VY015813.D  
 Acq On : 03 Oct 2023 18:06  
 Operator : SY/MD  
 Sample : 04704-01  
 Misc : 6.80g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 04 01:14:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

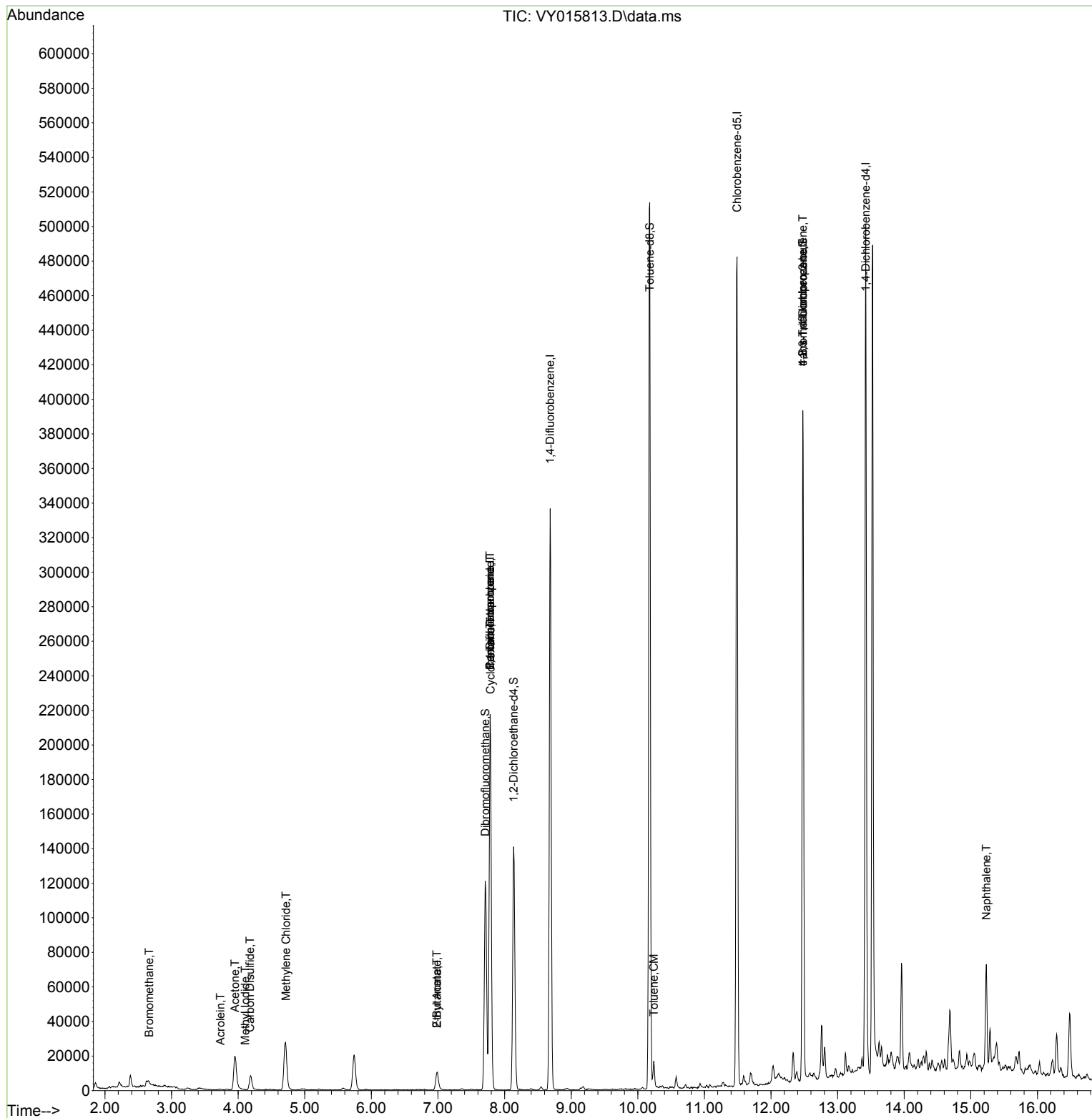
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 166612   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 288307   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 266962   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 120788   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 106631   | 58.167    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 116.340% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 85587    | 49.598    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 99.200%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 339818   | 58.079    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 116.160% |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 118124   | 51.445    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 102.900% |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.662  | 94    | 239      | 2.701     | ug/l       | 94       |
| 10) Methyl Iodide             | 4.107  | 142   | 76       | 2.765     | ug/l #     | 38       |
| 11) Tert butyl alcohol        | 4.960  | 59    | 1136     | Below Cal | #          | 95       |
| 13) Acrolein                  | 3.735  | 56    | 487      | 1.735     | ug/l       | 98       |
| 16) Acetone                   | 3.954  | 43    | 39162    | 39.919    | ug/l       | 91       |
| 17) Carbon Disulfide          | 4.180  | 76    | 16922    | 5.943     | ug/l #     | 93       |
| 20) Methylene Chloride        | 4.716  | 84    | 21981    | 5.969     | ug/l #     | 83       |
| 25) 2-Butanone                | 6.984  | 43    | 13009    | 9.381     | ug/l       | 98       |
| 31) Cyclohexane               | 7.789  | 56    | 3304     | 1.301     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 12357    | 4.843     | ug/l #     | 51       |
| 37) Ethyl Acetate             | 6.984  | 43    | 13009    | 5.112     | ug/l #     | 83       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 16411    | 5.926     | ug/l #     | 15       |
| 52) Toluene                   | 10.240 | 92    | 5771     | 1.150     | ug/l       | 99       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 62301    | 32.331    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 62301    | 72.806    | ug/l #     | 11       |
| 95) Naphthalene               | 15.233 | 128   | 49094    | 7.342     | ug/l       | 99       |
| -----                         |        |       |          |           |            |          |

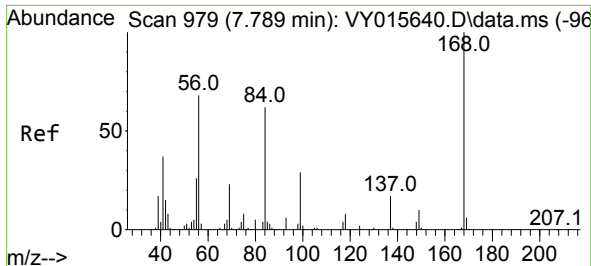
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100323\  
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Quant Title : SW846 8260  
QLast Update : Wed Sep 20 01:39:40 2023  
Response via : Initial Calibration

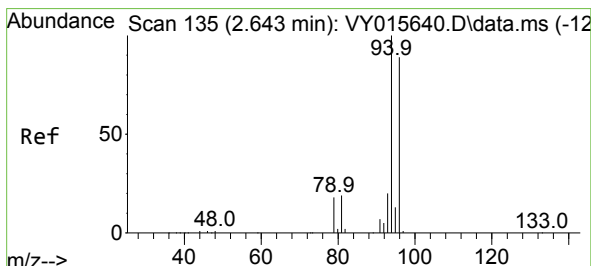
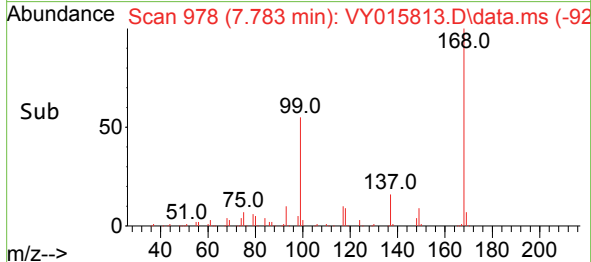
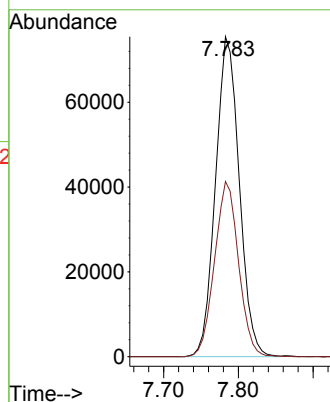
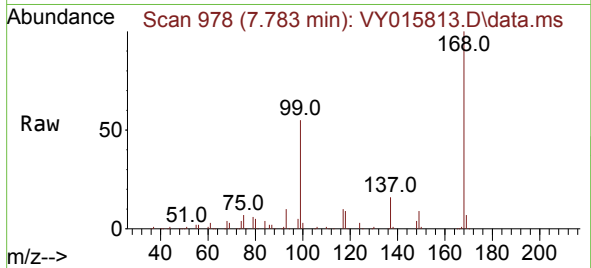




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

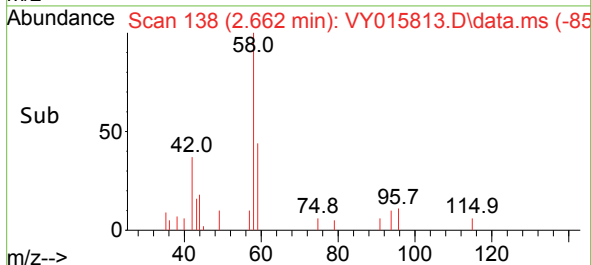
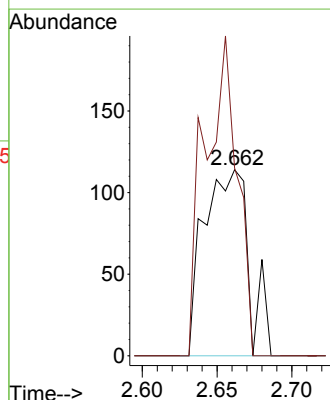
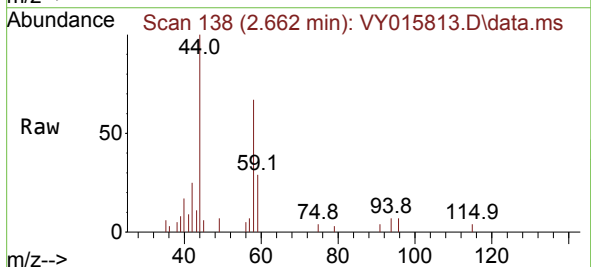
Instrument :  
MSVOA\_Y  
ClientSampleId :

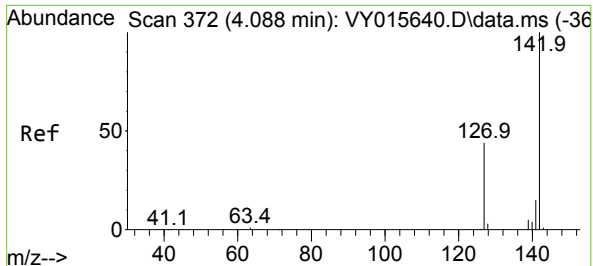
Tgt Ion:168 Resp: 166612  
Ion Ratio Lower Upper  
168 100  
99 54.7 43.4 65.0



#5  
Bromomethane  
Concen: 2.701 ug/l  
RT: 2.662 min Scan# 138  
Delta R.T. 0.025 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

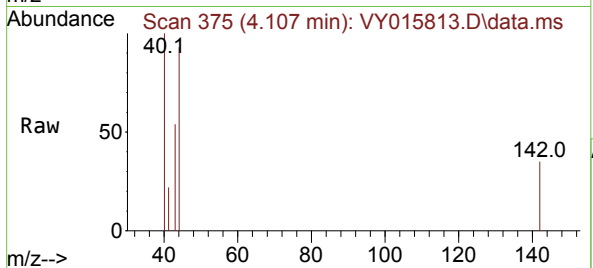
Tgt Ion: 94 Resp: 239  
Ion Ratio Lower Upper  
94 100  
96 100.9 75.8 113.6



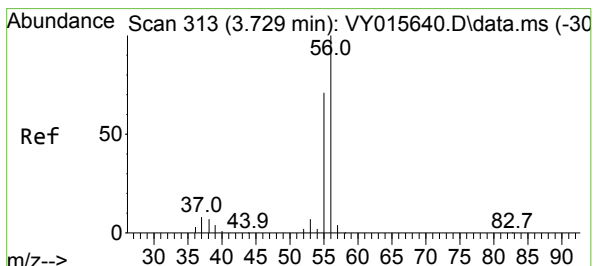
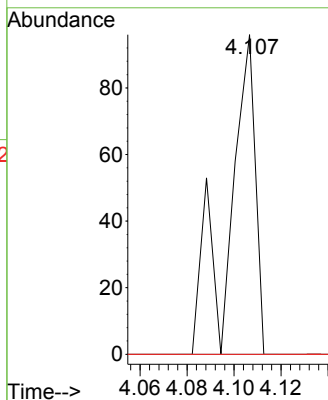
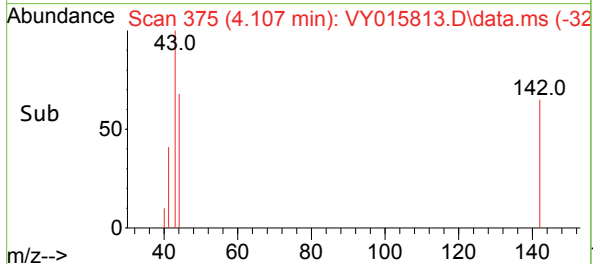


#10  
Methyl Iodide  
Concen: 2.765 ug/l  
RT: 4.107 min Scan# 31  
Delta R.T. 0.025 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

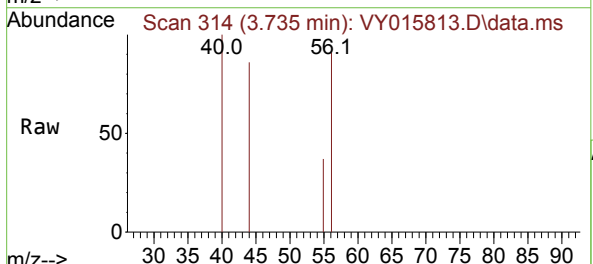
Instrument :  
MSVOA\_Y  
ClientSampleId :



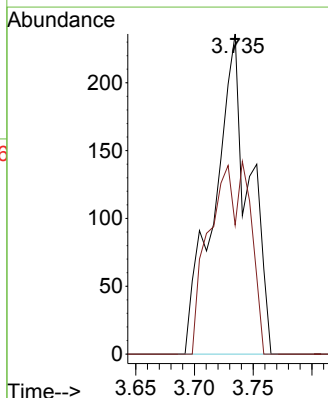
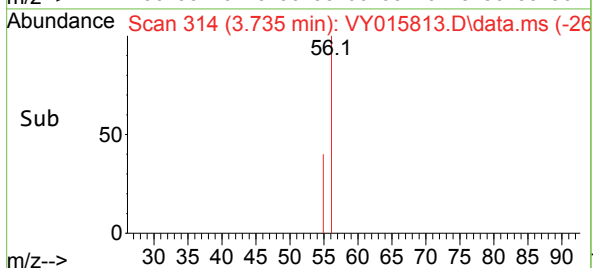
Tgt Ion:142 Resp: 76  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#

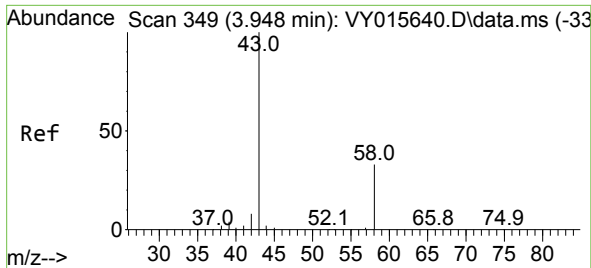


#13  
Acrolein  
Concen: 1.735 ug/l  
RT: 3.735 min Scan# 314  
Delta R.T. 0.012 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06



Tgt Ion: 56 Resp: 487  
Ion Ratio Lower Upper  
56 100  
55 69.4 57.0 85.4

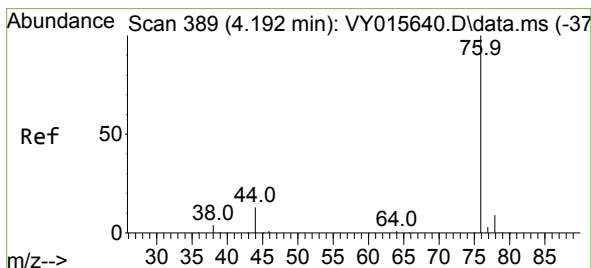
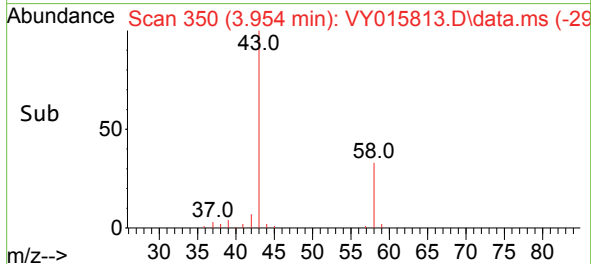
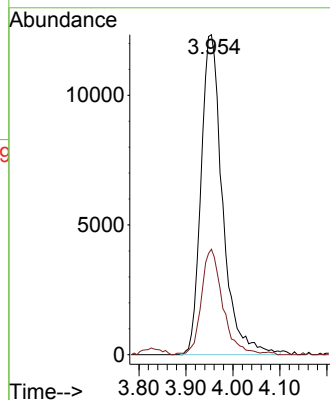
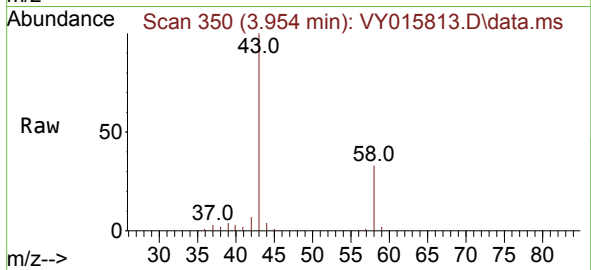




#16  
Acetone  
Concen: 39.919 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

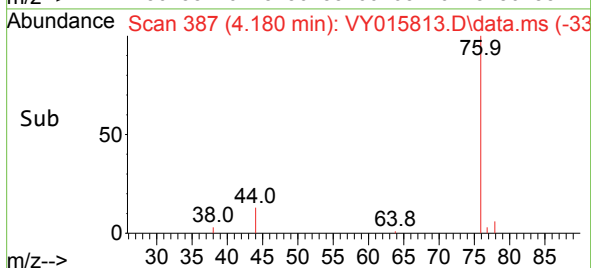
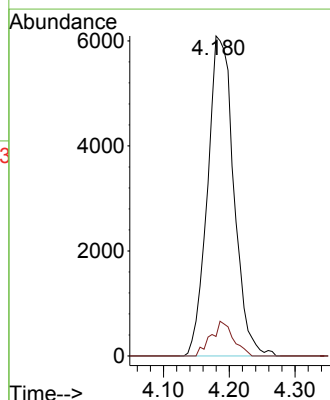
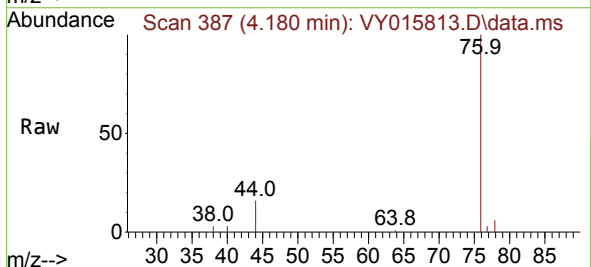
Instrument :  
MSVOA\_Y  
ClientSampleId :

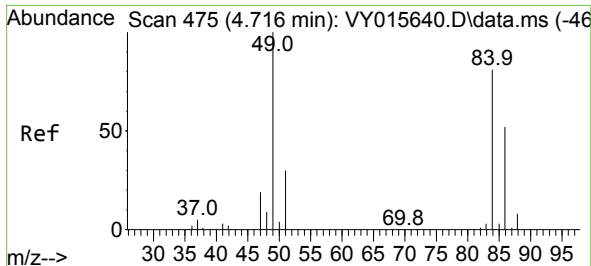
Tgt Ion: 43 Resp: 39162  
Ion Ratio Lower Upper  
43 100  
58 33.0 22.7 34.1



#17  
Carbon Disulfide  
Concen: 5.943 ug/l  
RT: 4.180 min Scan# 387  
Delta R.T. -0.006 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

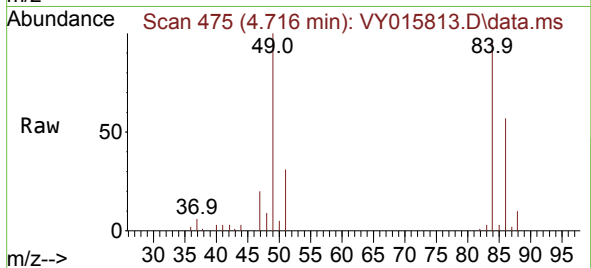
Tgt Ion: 76 Resp: 16922  
Ion Ratio Lower Upper  
76 100  
78 6.1 7.0 10.4#



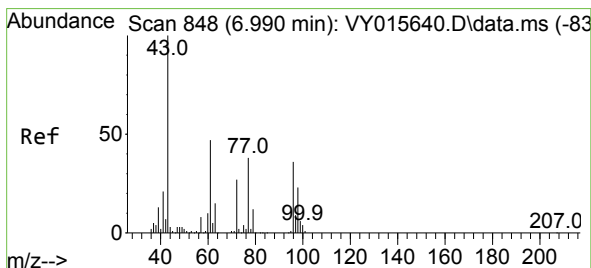
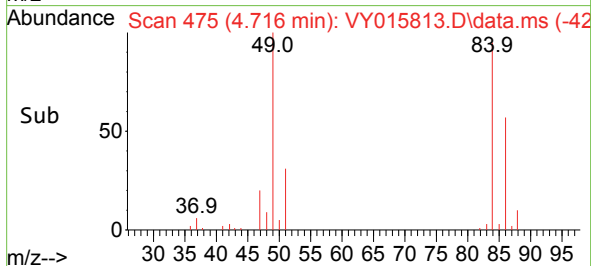
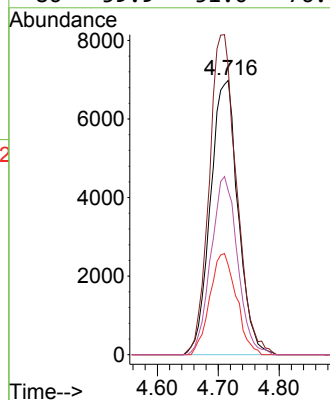


#20  
Methylene Chloride  
Concen: 5.969 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Instrument :  
MSVOA\_Y  
ClientSampleId :

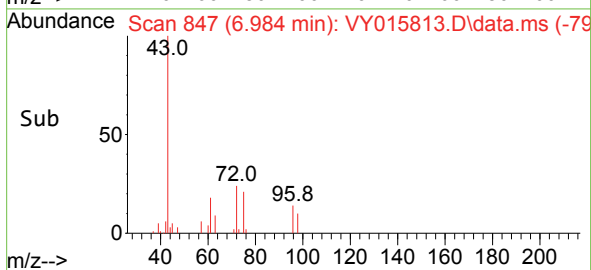
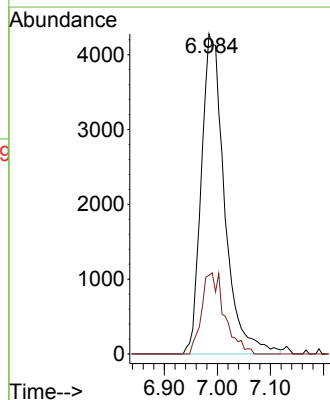
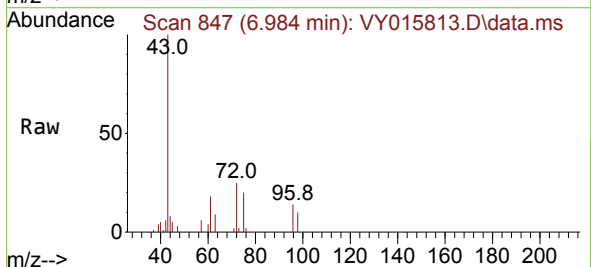


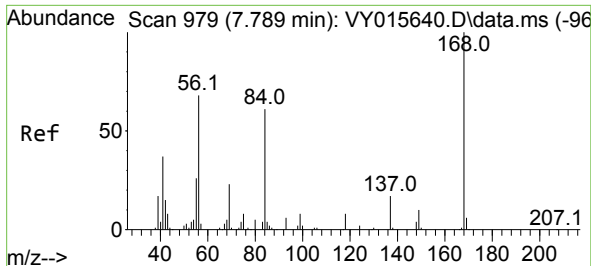
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 21981  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 105.1 | 106.9 | 160.3# |
| 51       | 32.7  | 33.2  | 49.8#  |
| 86       | 59.9  | 51.0  | 76.6   |



#25  
2-Butanone  
Concen: 9.381 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

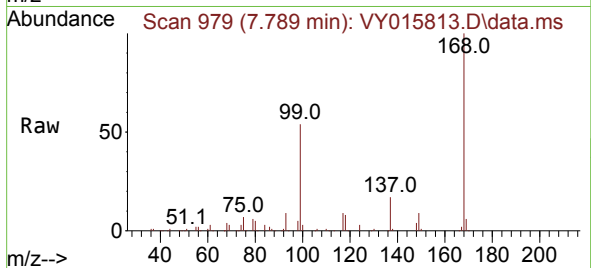
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13009 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 24.5  | 20.5  | 30.7  |



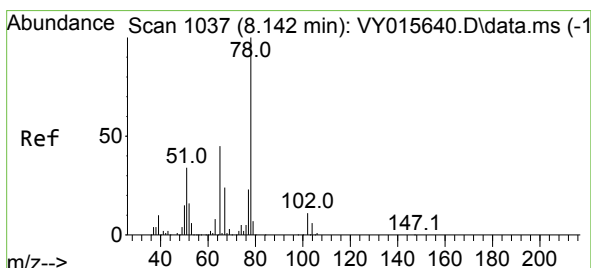
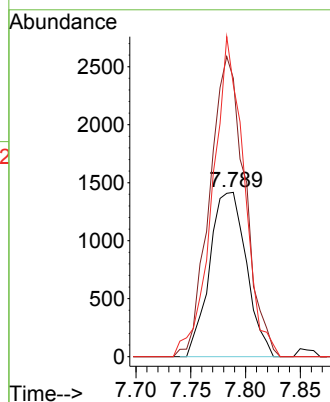
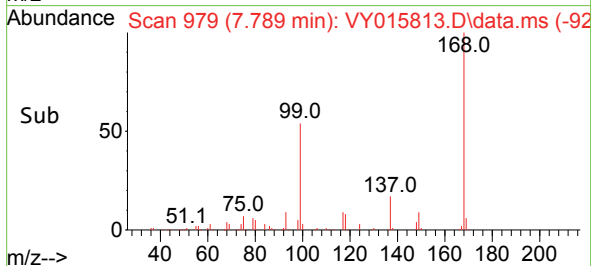


#31  
Cyclohexane  
Concen: 1.301 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Instrument :  
MSVOA\_Y  
ClientSampleId :

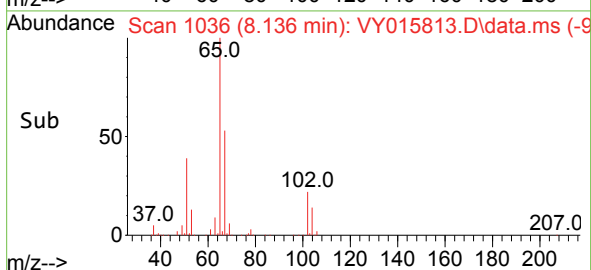
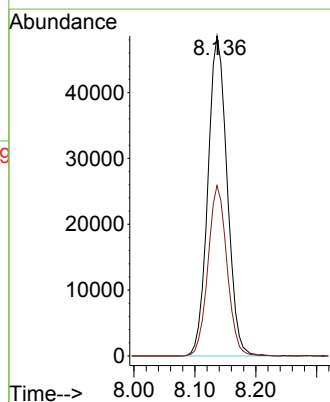
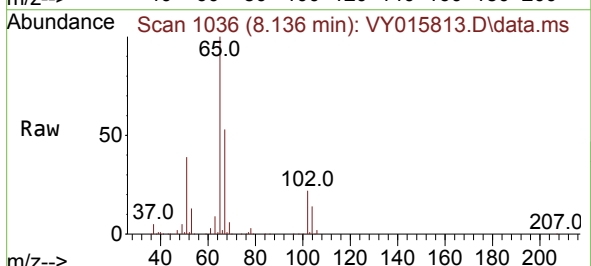


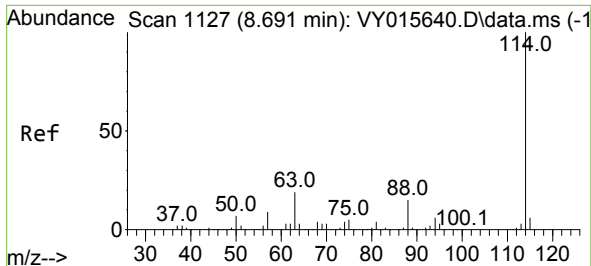
Tgt Ion: 56 Resp: 3304  
Ion Ratio Lower Upper  
56 100  
69 169.4 27.8 41.6#  
84 165.4 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 58.167 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Tgt Ion: 65 Resp: 106631  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

Instrument :

MSVOA\_Y

ClientSampleId :

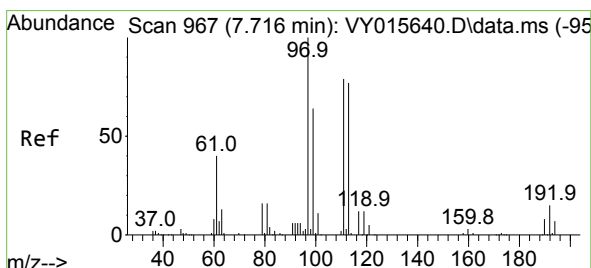
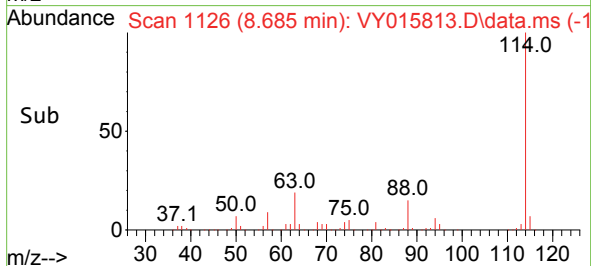
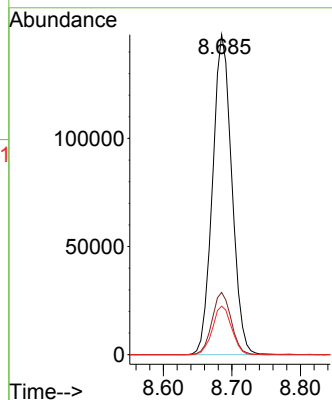
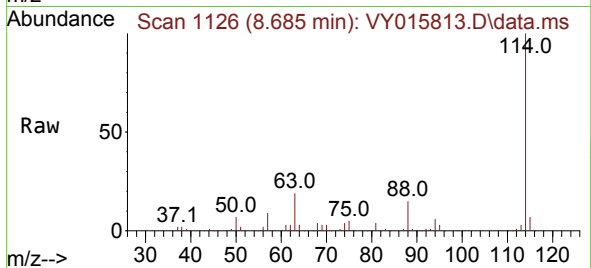
Tgt Ion:114 Resp: 288307

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.598 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

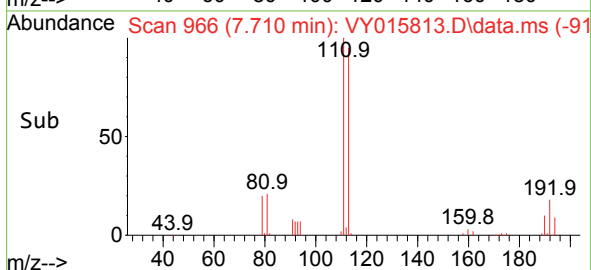
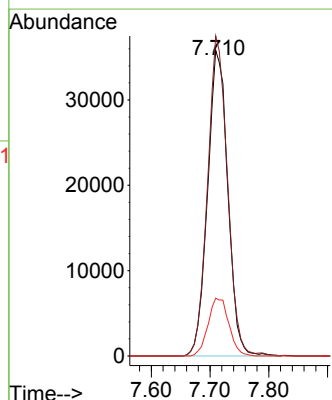
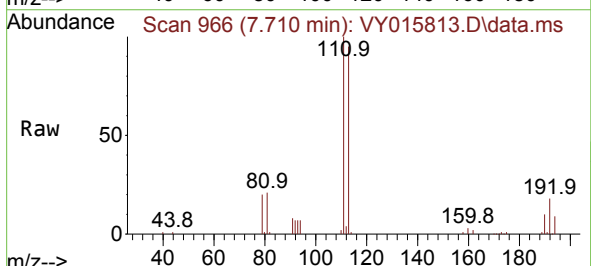
Tgt Ion:113 Resp: 85587

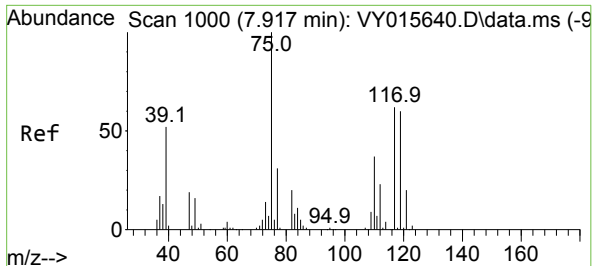
Ion Ratio Lower Upper

113 100

111 103.4 81.3 121.9

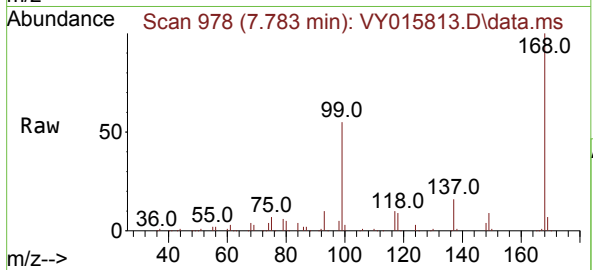
192 19.4 16.9 25.3



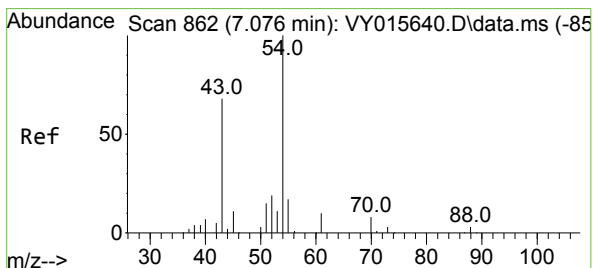
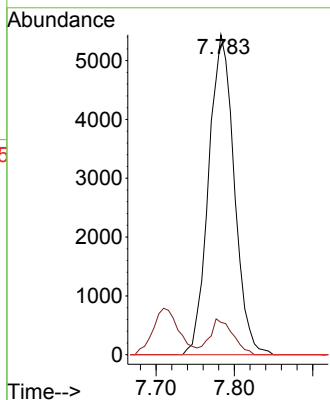
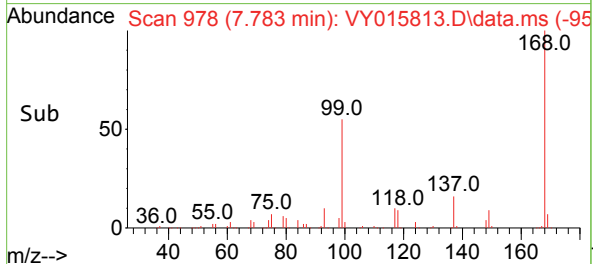


#36  
 1,1-Dichloropropene  
 Concen: 4.843 ug/l  
 RT: 7.783 min Scan# 91  
 Delta R.T. -0.128 min  
 Lab File: VY015813.D  
 Acq: 03 Oct 2023 18:06

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

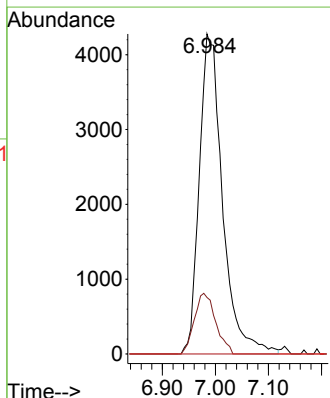
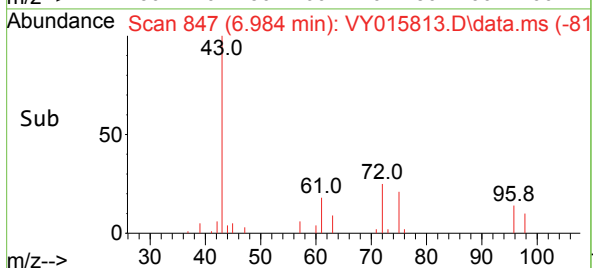
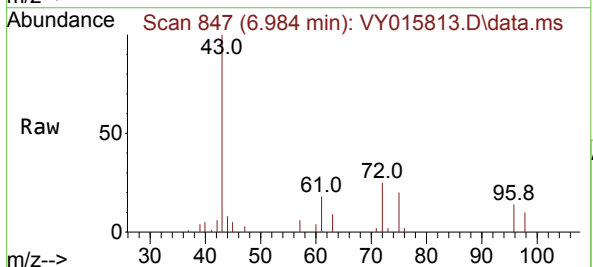


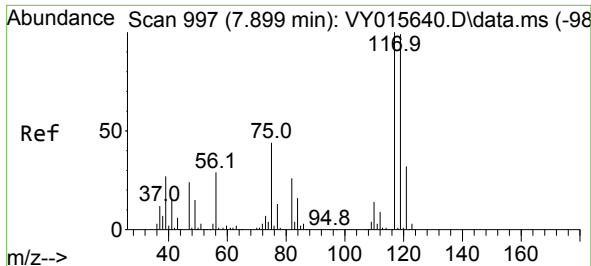
Tgt Ion: 75 Resp: 12357  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 17.8 53.5#  
 77 0.0 24.4 36.6#



#37  
 Ethyl Acetate  
 Concen: 5.112 ug/l  
 RT: 6.984 min Scan# 847  
 Delta R.T. -0.079 min  
 Lab File: VY015813.D  
 Acq: 03 Oct 2023 18:06

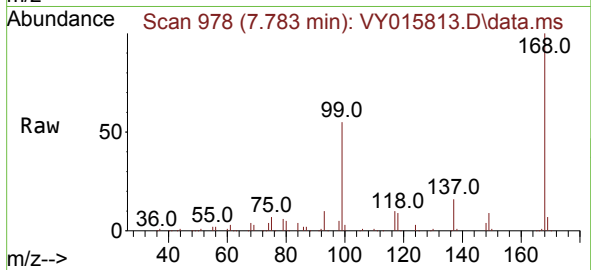
Tgt Ion: 43 Resp: 13009  
 Ion Ratio Lower Upper  
 43 100  
 61 17.4 10.1 15.1#  
 70 0.0 7.1 10.7#



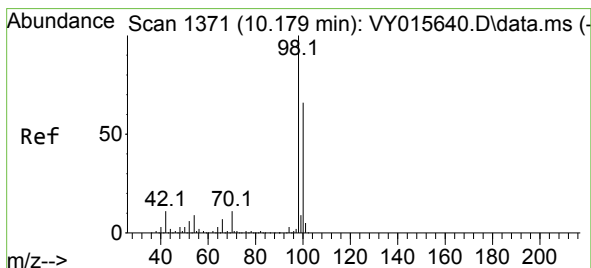
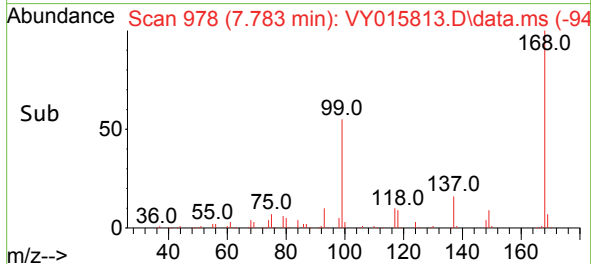
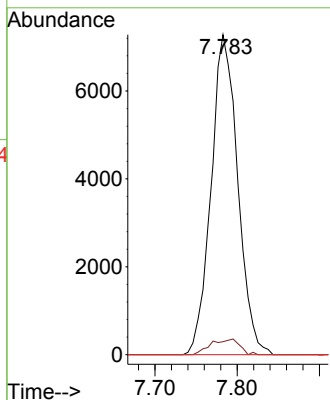


#38  
Carbon Tetrachloride  
Concen: 5.926 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Instrument :  
MSVOA\_Y  
ClientSampleId :

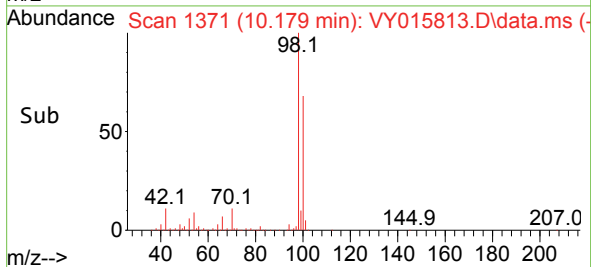
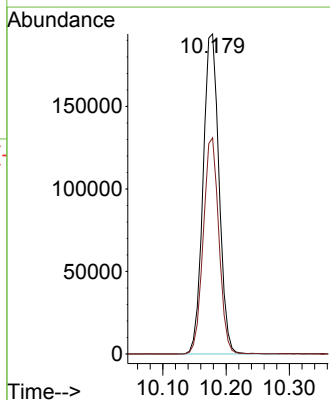
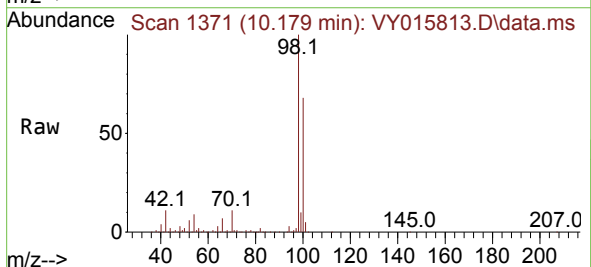


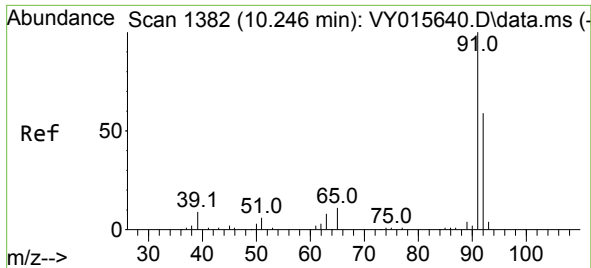
Tgt Ion:117 Resp: 16411  
Ion Ratio Lower Upper  
117 100  
119 4.0 76.4 114.6#  
121 0.0 25.8 38.6#



#50  
Toluene-d8  
Concen: 58.079 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Tgt Ion: 98 Resp: 339818  
Ion Ratio Lower Upper  
98 100  
100 66.1 50.1 75.1

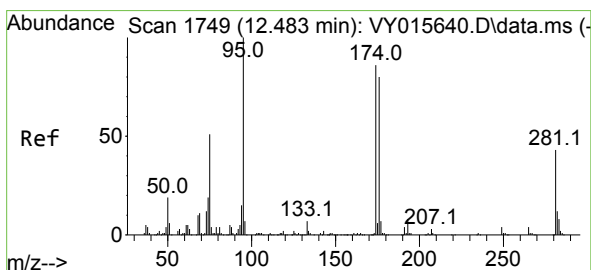
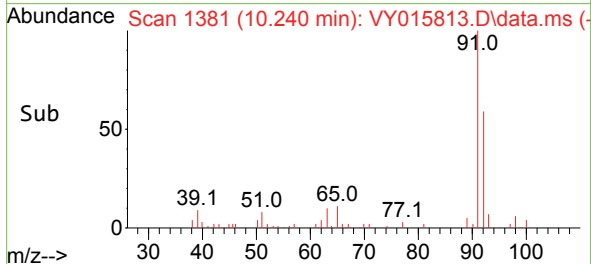
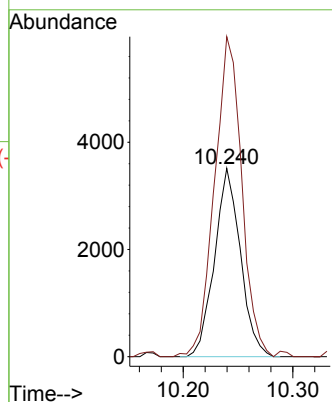
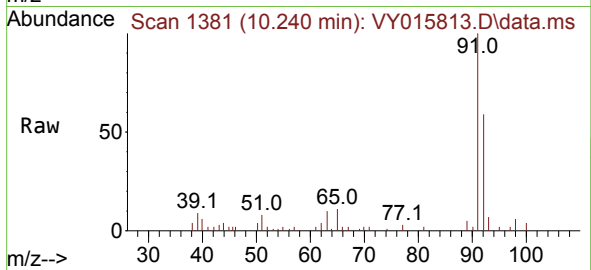




#52  
Toluene  
Concen: 1.150 ug/l  
RT: 10.240 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

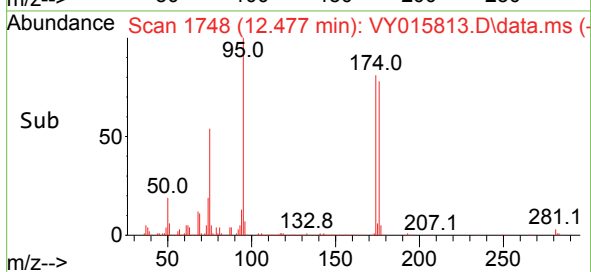
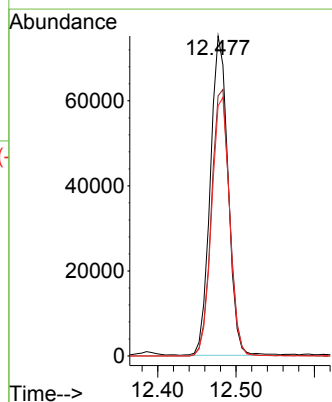
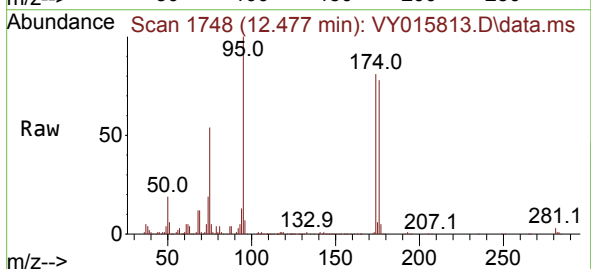
Instrument :  
MSVOA\_Y  
ClientSampleId :

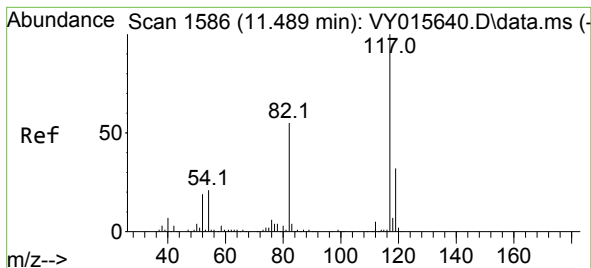
Tgt Ion: 92 Resp: 5771  
Ion Ratio Lower Upper  
92 100  
91 178.3 143.8 215.6



#62  
4-Bromofluorobenzene  
Concen: 51.445 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY015813.D  
Acq: 03 Oct 2023 18:06

Tgt Ion: 95 Resp: 118124  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 178.2  
176 82.1 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: VY015813.D

Acq: 03 Oct 2023 18:06

Instrument :

MSVOA\_Y

ClientSampleId :

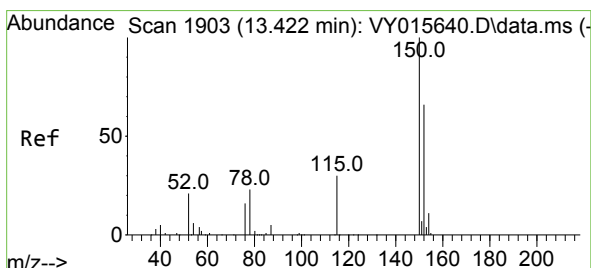
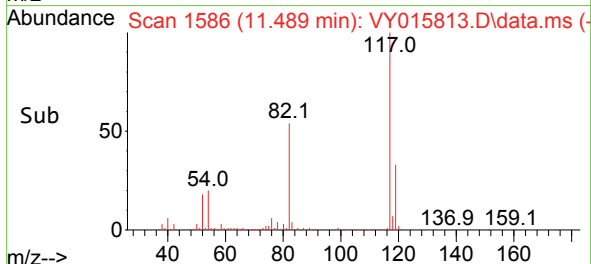
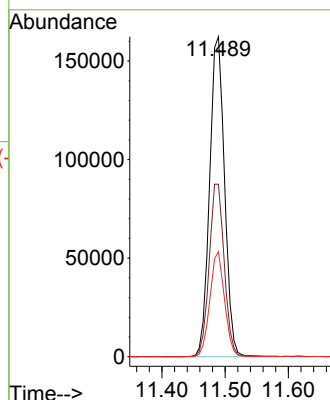
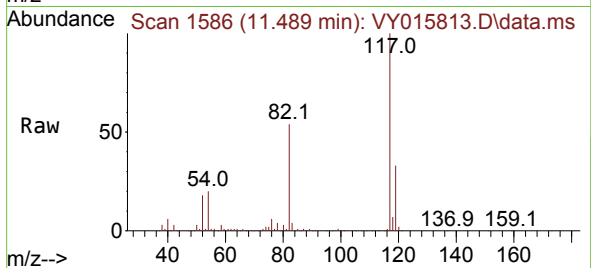
Tgt Ion:117 Resp: 266962

Ion Ratio Lower Upper

117 100

82 53.9 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# 1903

Delta R.T. -0.000 min

Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

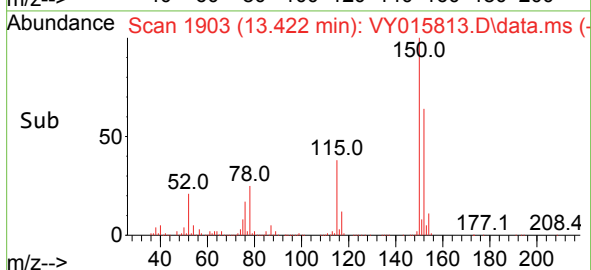
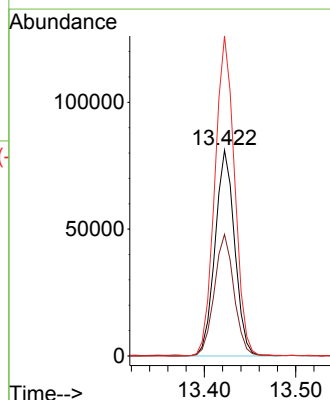
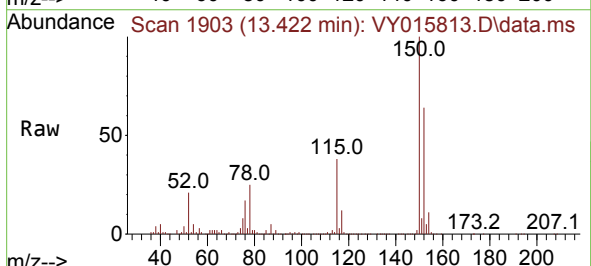
Tgt Ion:152 Resp: 120788

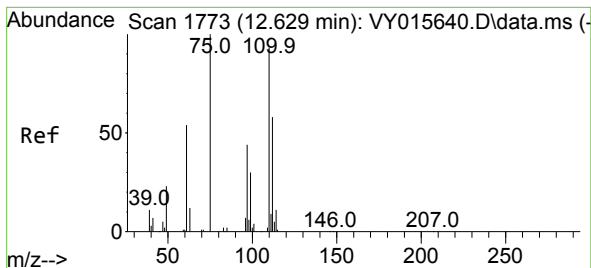
Ion Ratio Lower Upper

152 100

115 58.8 28.8 86.5

150 157.3 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 32.331 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

Instrument :

MSVOA\_Y

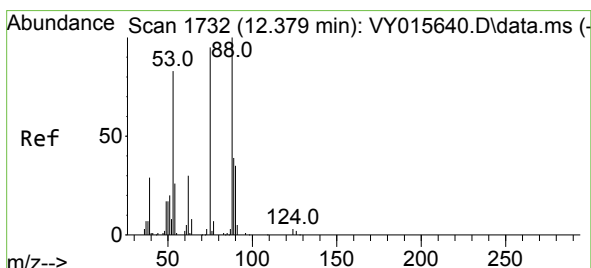
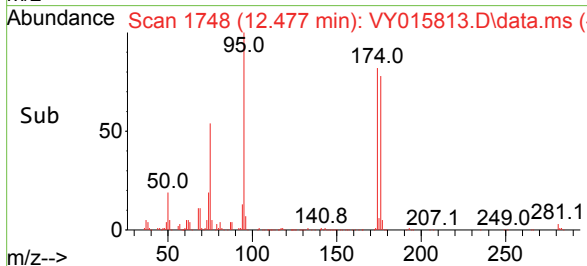
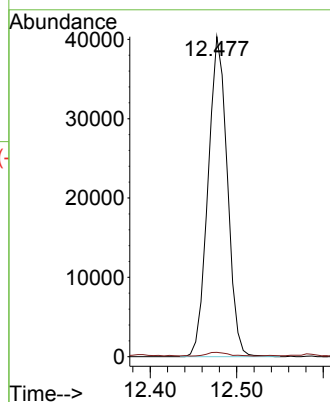
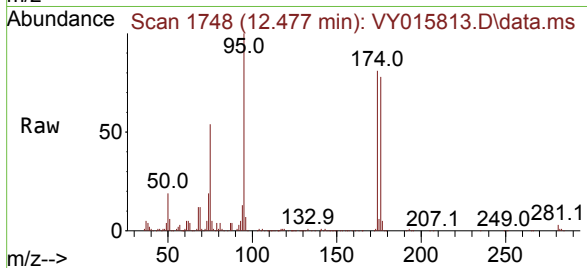
ClientSampleId :

Tgt Ion: 75 Resp: 62301

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.806 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.097 min

Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

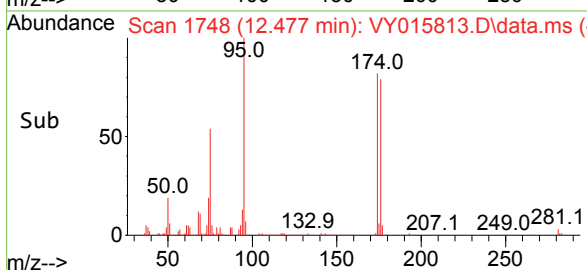
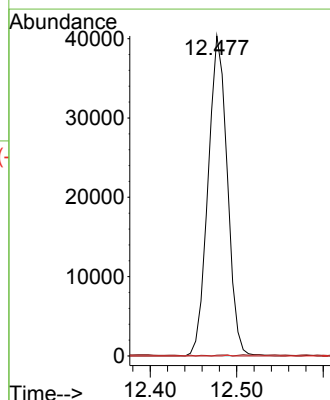
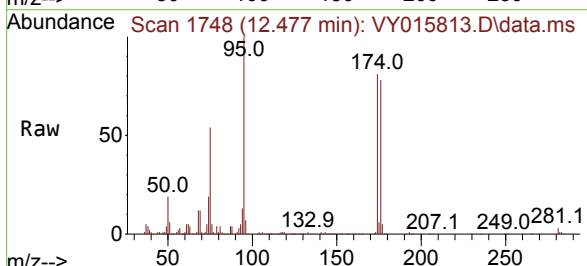
Tgt Ion: 75 Resp: 62301

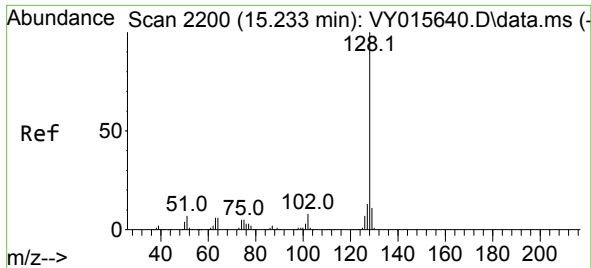
Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.1 37.4 56.0#





#95

Naphthalene

Concen: 7.342 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

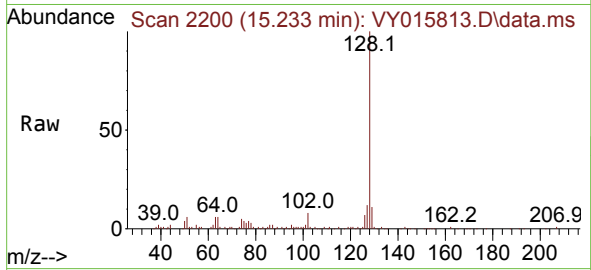
Lab File: VY015813.D

Acq: 03 Oct 2023 18:06

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion:128 Resp: 49094

Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 11.3 8.6 13.0

