

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072623\  
 Data File : VY014855.D  
 Acq On : 26 Jul 2023 17:27  
 Operator : SY/MD  
 Sample : 03681-02  
 Misc : 5.23g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jul 27 01:10:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

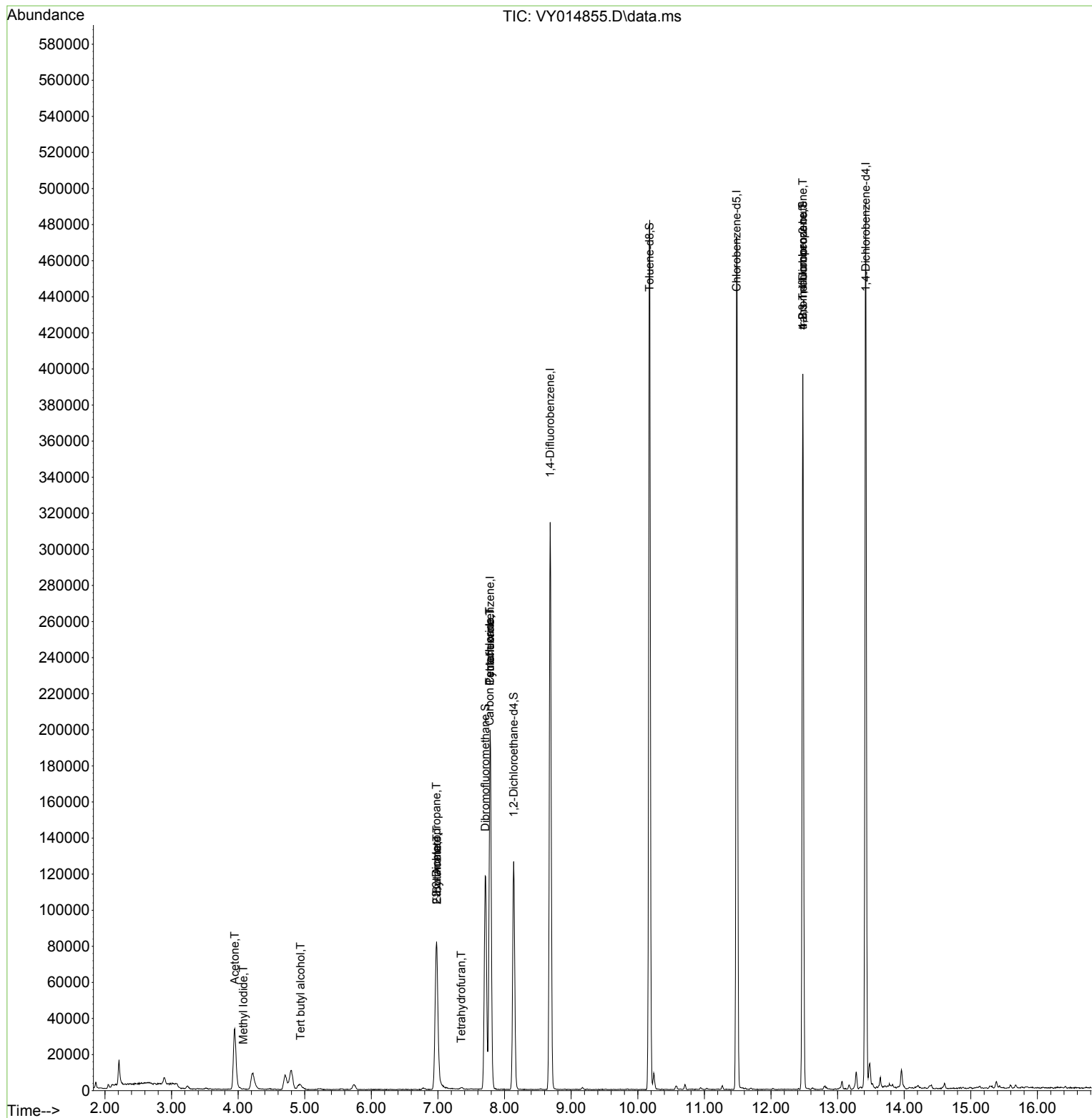
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 156734              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 272262              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.483         | 117  | 260251              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 124336              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137          | 65   | 97578               | 54.634    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 109.260% |           |        |          |
| 35) Dibromofluoromethane      | 7.710          | 113  | 86666               | 50.005    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 100.000% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 323153              | 50.573    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 101.140% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 117966              | 48.148    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 96.300%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 10) Methyl Iodide             | 4.076          | 142  | 75                  | 2.410     | ug/l # | 38       |
| 11) Tert butyl alcohol        | 4.936          | 59   | 4720                | 1.125     | ug/l # | 90       |
| 16) Acetone                   | 3.948          | 43   | 61113               | 107.978   | ug/l   | 90       |
| 20) Methylene Chloride        | 4.704          | 84   | 5857                | Below Cal |        | 90       |
| 25) 2-Butanone                | 6.984          | 43   | 4921                | 5.943     | ug/l # | 80       |
| 26) 2,2-Dichloropropane       | 6.978          | 77   | 6301                | 2.074     | ug/l # | 54       |
| 29) Tetrahydrofuran           | 7.350          | 42   | 552                 | 1.083     | ug/l # | 61       |
| 31) Cyclohexane               | 7.783          | 56   | 3352                | 1.131     | ug/l # | 1        |
| 37) Ethyl Acetate             | 6.984          | 43   | 4921                | 2.758     | ug/l # | 71       |
| 38) Carbon Tetrachloride      | 7.777          | 117  | 15639               | 5.708     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 63292               | 40.305    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 63292               | 78.038    | ug/l # | 10       |
| -----                         |                |      |                     |           |        |          |

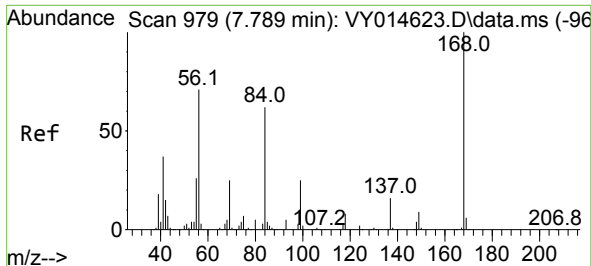
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Jul 27 01:10:54 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
Response via : Initial Calibration

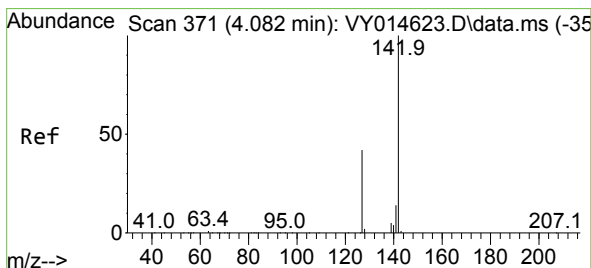
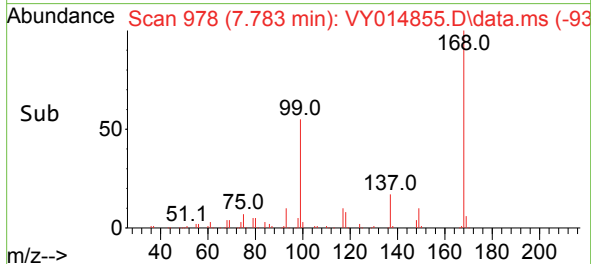
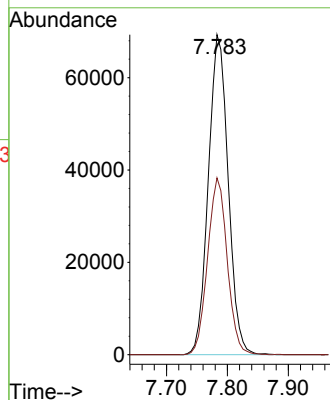
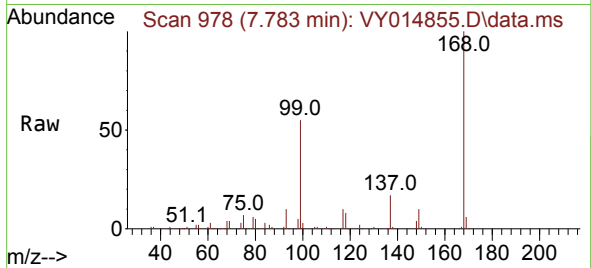




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

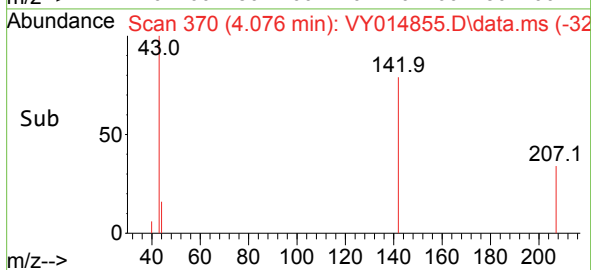
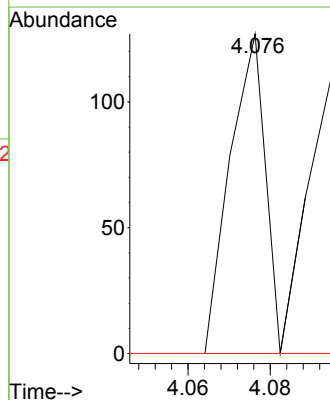
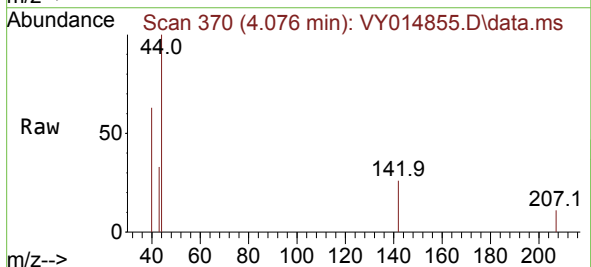
Instrument :  
MSVOA\_Y  
ClientSampleId :

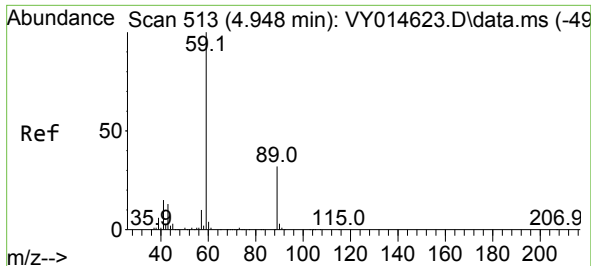
Tgt Ion:168 Resp: 156734  
Ion Ratio Lower Upper  
168 100  
99 55.2 43.4 65.0



#10  
Methyl Iodide  
Concen: 2.410 ug/l  
RT: 4.076 min Scan# 370  
Delta R.T. -0.006 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

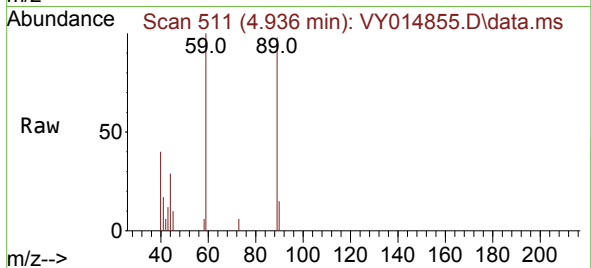
Tgt Ion:142 Resp: 75  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.6 56.4#  
141 0.0 11.8 17.8#



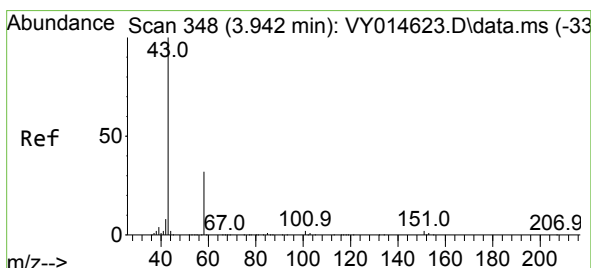
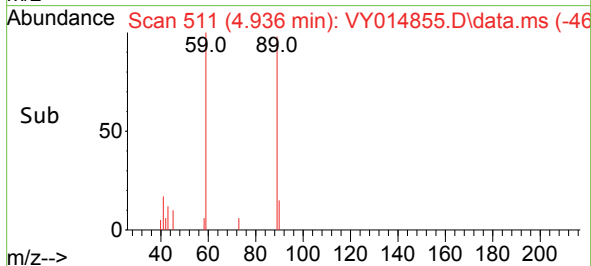
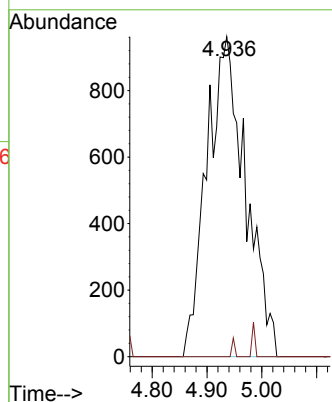


#11  
Tert butyl alcohol  
Concen: 1.125 ug/l  
RT: 4.936 min Scan# 511  
Delta R.T. -0.012 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

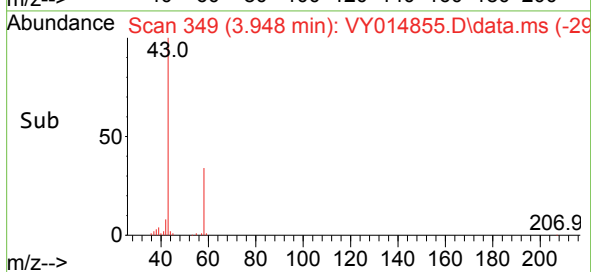
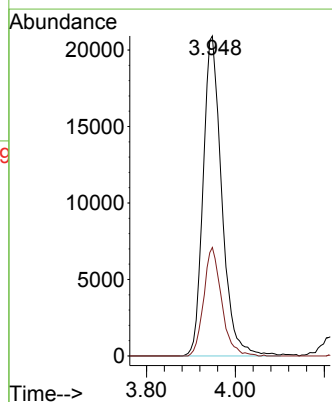
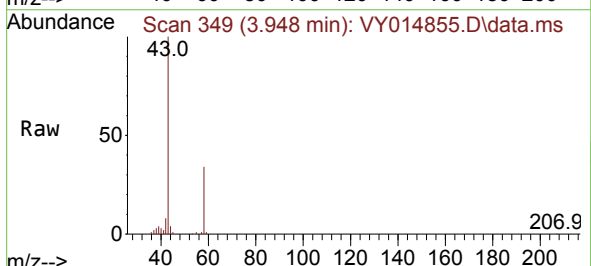


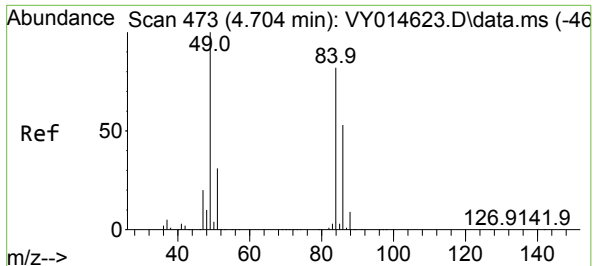
Tgt Ion: 59 Resp: 4720  
Ion Ratio Lower Upper  
59 100  
57 0.4 3.0 4.4#



#16  
Acetone  
Concen: 107.978 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. 0.006 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

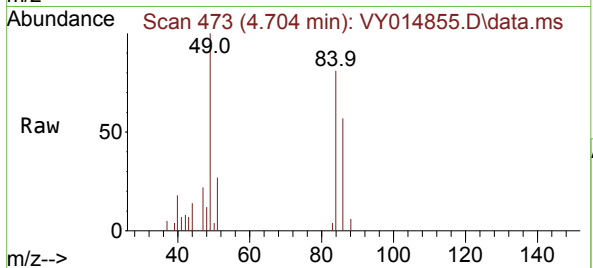
Tgt Ion: 43 Resp: 61113  
Ion Ratio Lower Upper  
43 100  
58 33.9 22.7 34.1



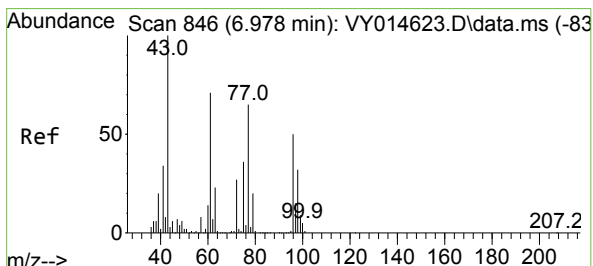
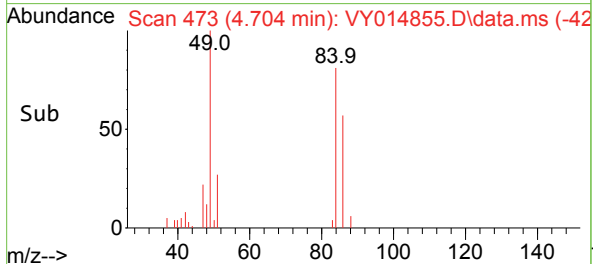
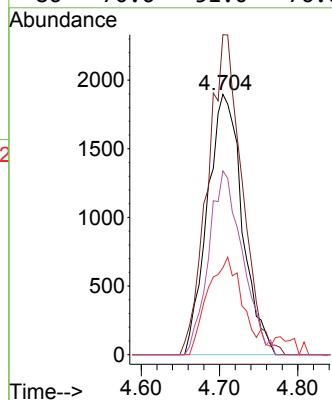


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.704 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

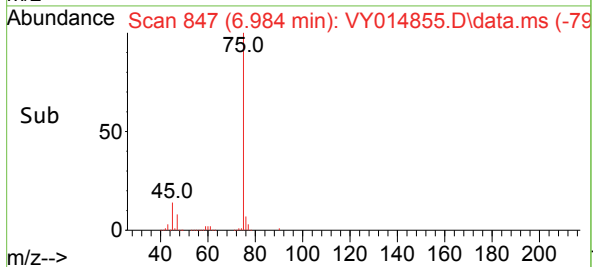
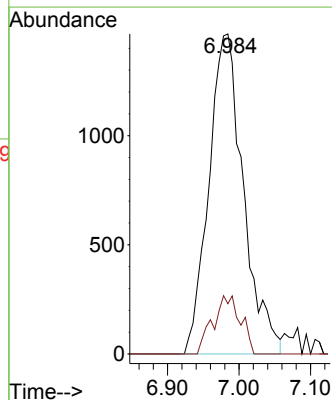
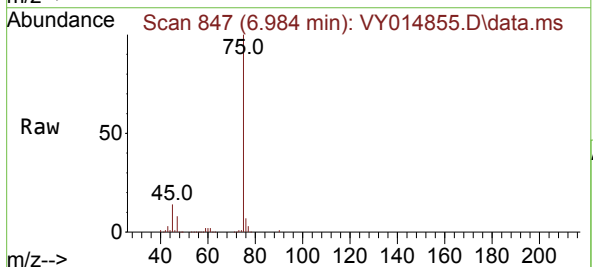


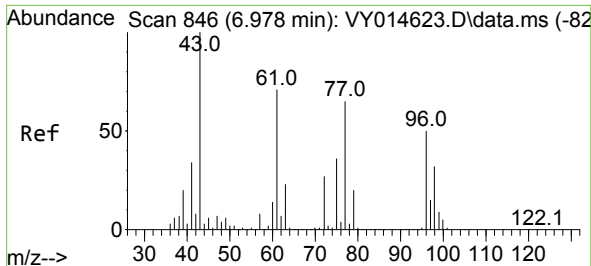
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5857  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.9 | 106.9 | 160.3 |
| 51       | 33.4  | 33.2  | 49.8  |
| 86       | 70.6  | 51.0  | 76.6  |



#25  
2-Butanone  
Concen: 5.943 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4921  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 15.7  | 20.5  | 30.7# |





#26

2,2-Dichloropropane

Concen: 2.074 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

Instrument :

MSVOA\_Y

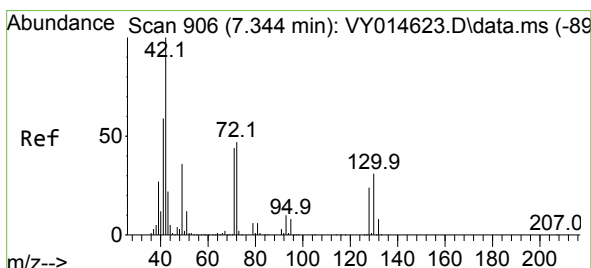
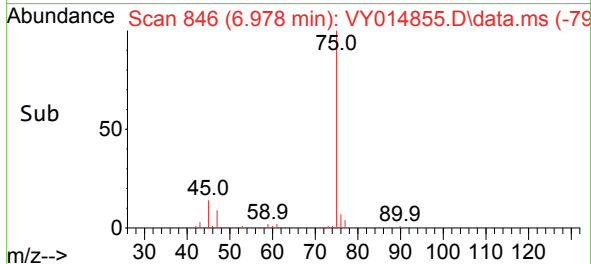
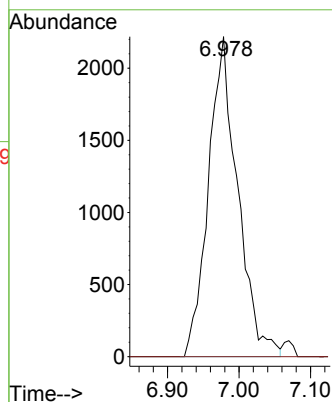
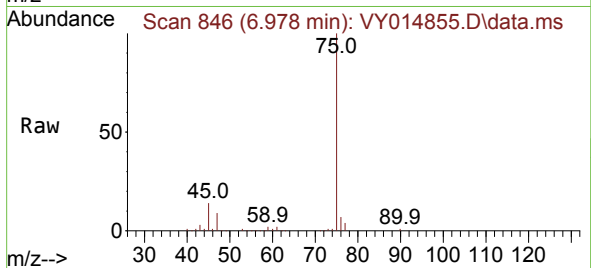
ClientSampleId :

Tgt Ion: 77 Resp: 6301

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#29

Tetrahydrofuran

Concen: 1.083 ug/l

RT: 7.350 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

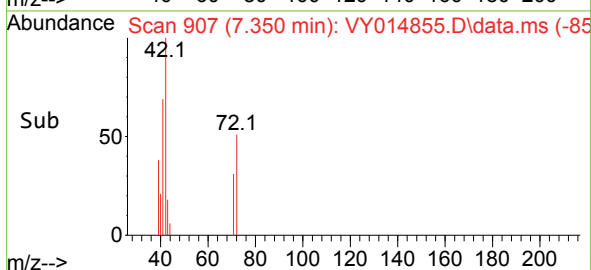
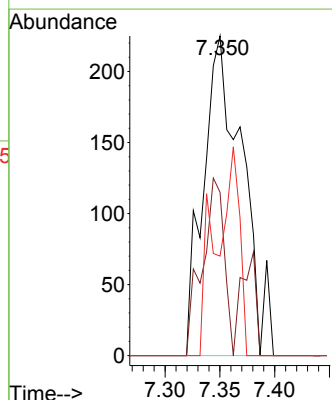
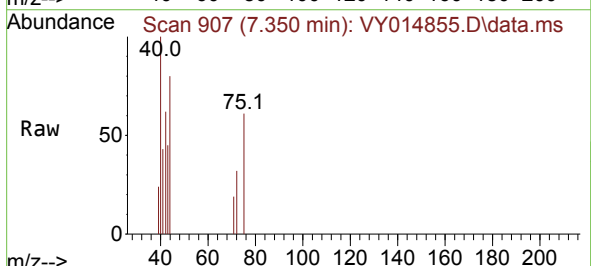
Tgt Ion: 42 Resp: 552

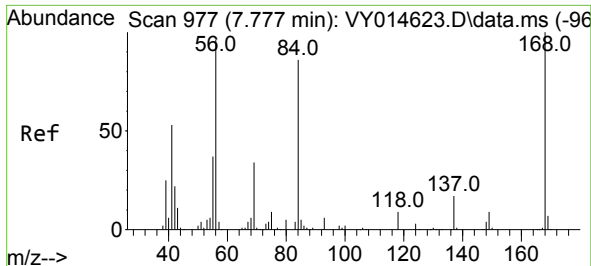
Ion Ratio Lower Upper

42 100

72 31.5 32.8 49.2#

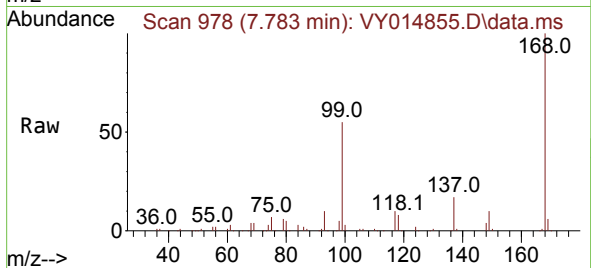
71 0.0 31.0 46.4#



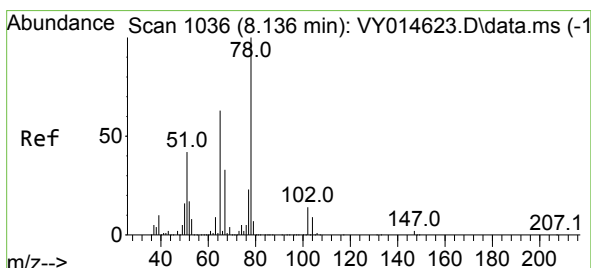
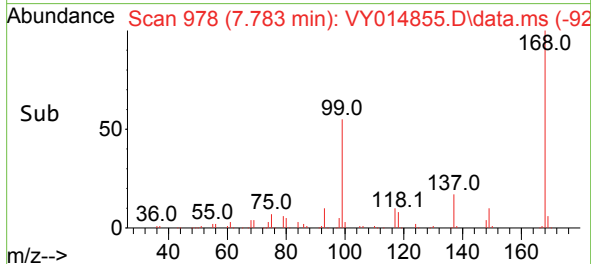
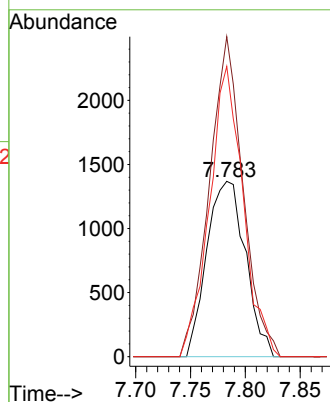


#31  
Cyclohexane  
Concen: 1.131 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

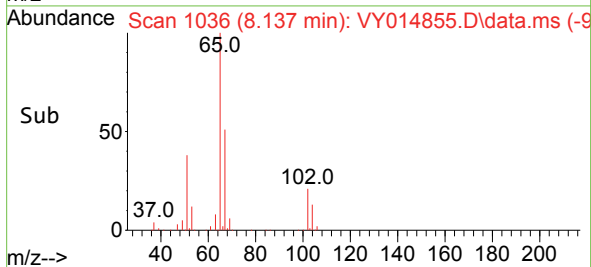
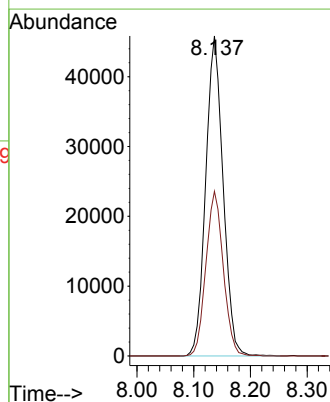
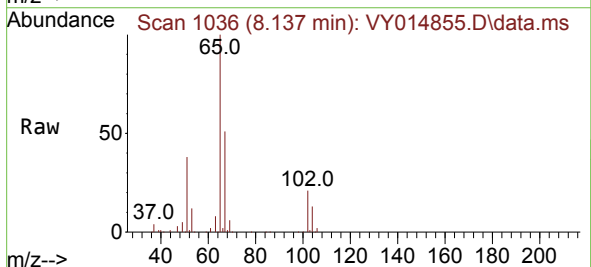


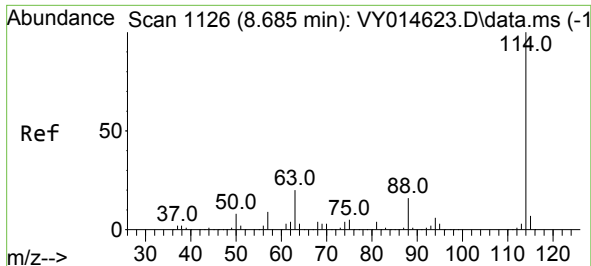
Tgt Ion: 56 Resp: 3352  
Ion Ratio Lower Upper  
56 100  
69 182.5 27.8 41.6#  
84 165.6 66.4 99.6#



#33  
1,2-Dichloroethane-d4  
Concen: 54.634 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. 0.001 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Tgt Ion: 65 Resp: 97578  
Ion Ratio Lower Upper  
65 100  
67 51.5 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

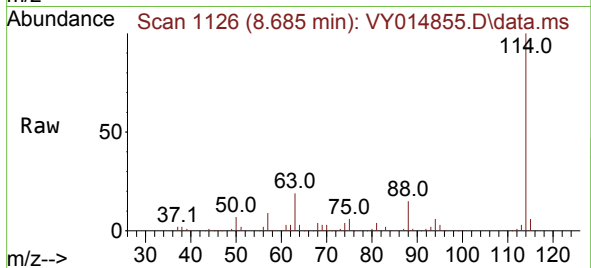
Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

Instrument :

MSVOA\_Y

ClientSampleId :



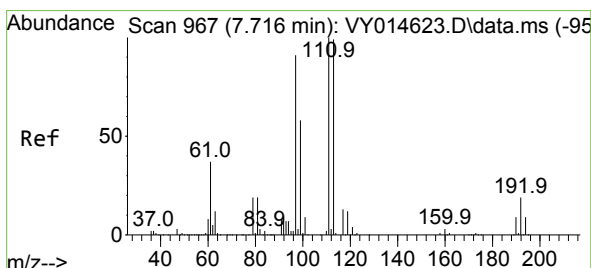
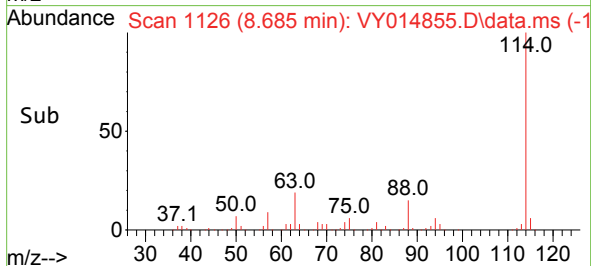
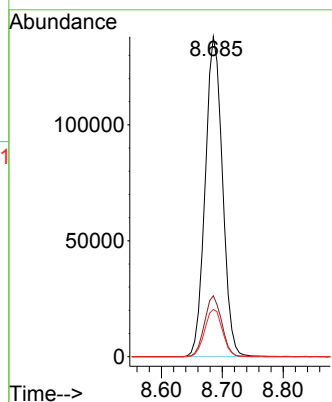
Tgt Ion:114 Resp: 272262

Ion Ratio Lower Upper

114 100

63 19.0 0.0 42.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.005 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

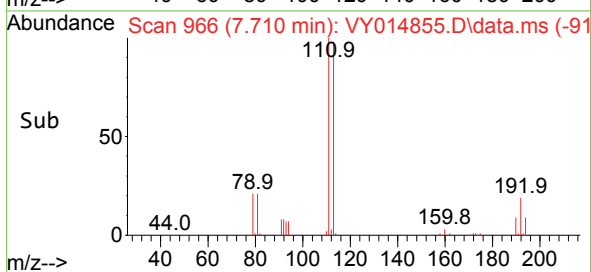
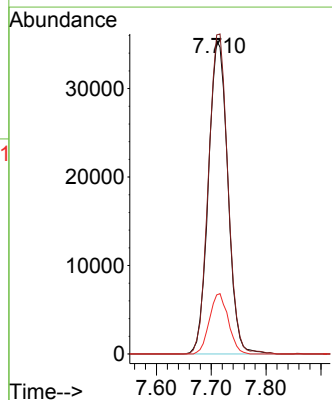
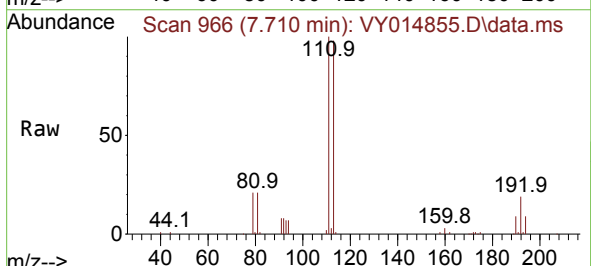
Tgt Ion:113 Resp: 86666

Ion Ratio Lower Upper

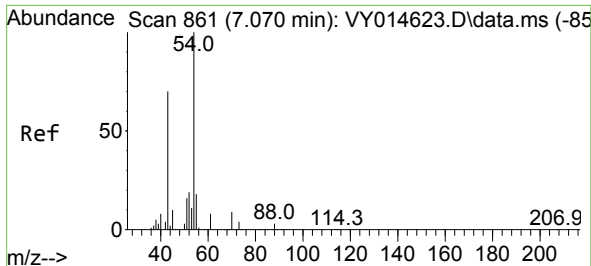
113 100

111 102.4 81.3 121.9

192 18.7 16.9 25.3







#37

Ethyl Acetate

Concen: 2.758 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.086 min

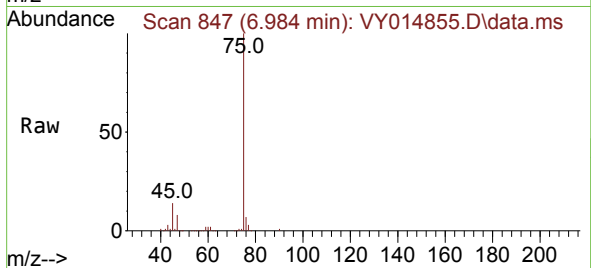
Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

Instrument :

MSVOA\_Y

ClientSampleId :



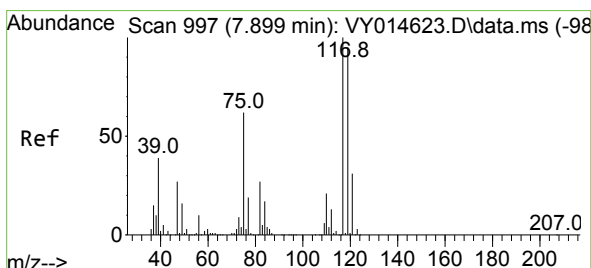
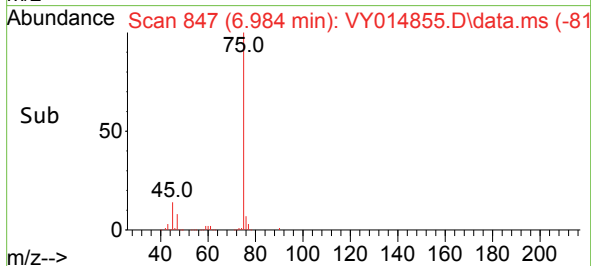
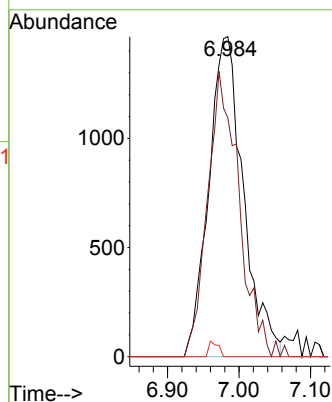
Tgt Ion: 43 Resp: 4921

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.708 ug/l

RT: 7.777 min Scan# 977

Delta R.T. -0.122 min

Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

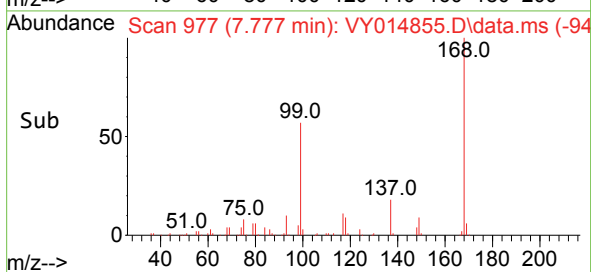
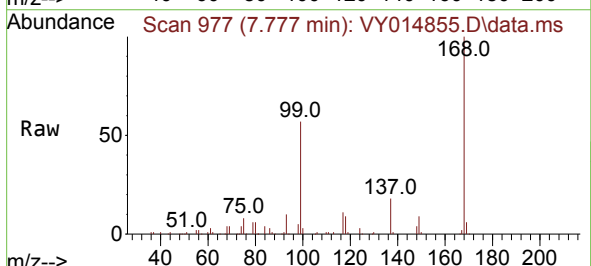
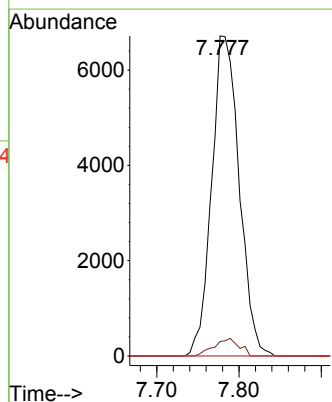
Tgt Ion: 117 Resp: 15639

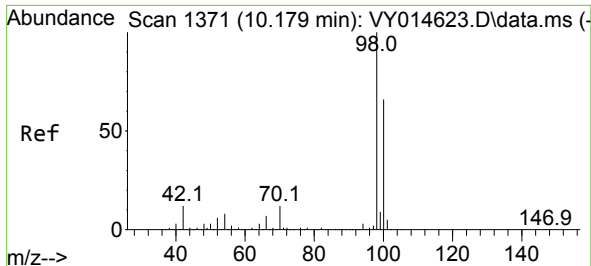
Ion Ratio Lower Upper

117 100

119 4.5 76.4 114.6#

121 0.0 25.8 38.6#

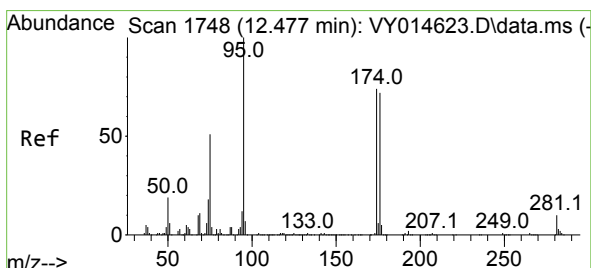
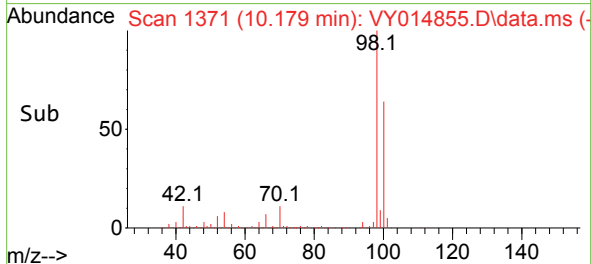
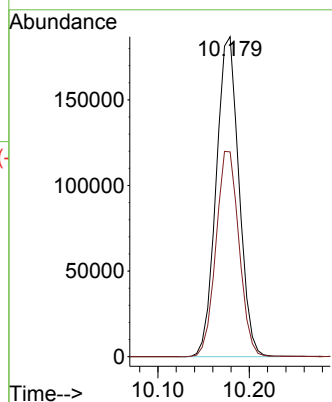
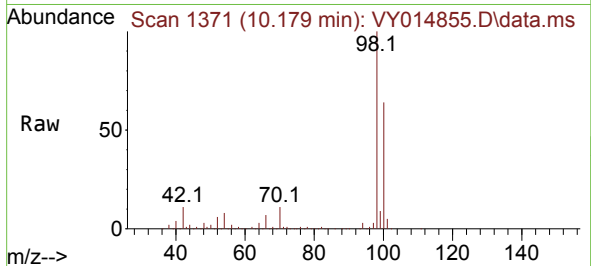




#50  
Toluene-d8  
Concen: 50.573 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

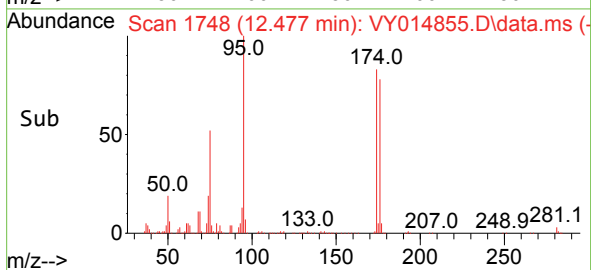
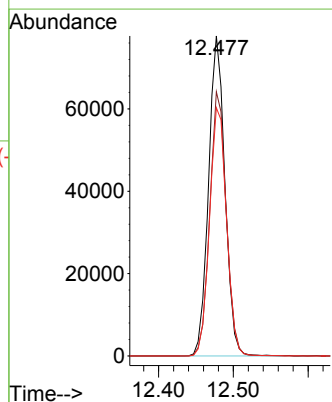
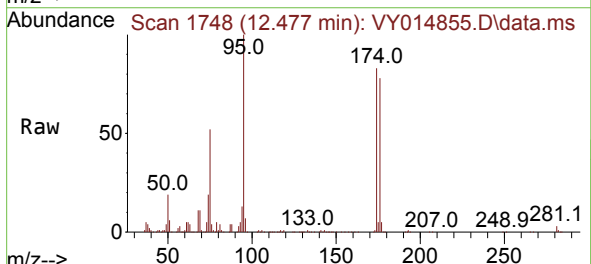
Instrument :  
MSVOA\_Y  
ClientSampleId :

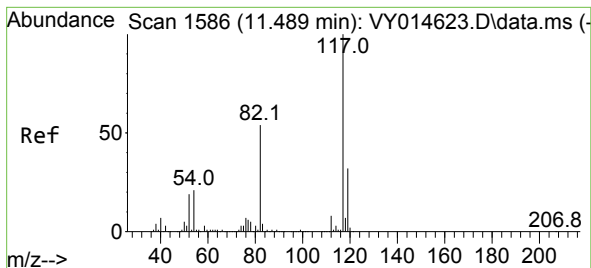
Tgt Ion: 98 Resp: 323153  
Ion Ratio Lower Upper  
98 100  
100 65.1 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 48.148 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Tgt Ion: 95 Resp: 117966  
Ion Ratio Lower Upper  
95 100  
174 83.3 0.0 178.2  
176 80.8 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.483 min Scan# 11

Delta R.T. -0.006 min

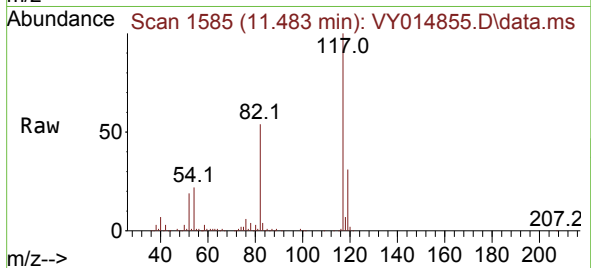
Lab File: VY014855.D

Acq: 26 Jul 2023 17:27

Instrument :

MSVOA\_Y

ClientSampleId :



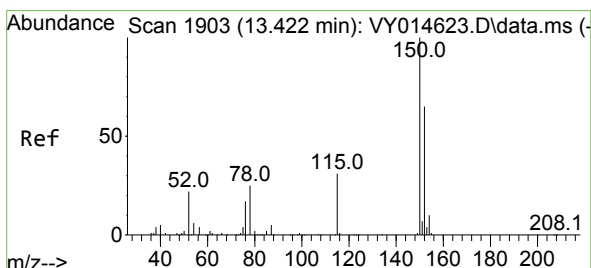
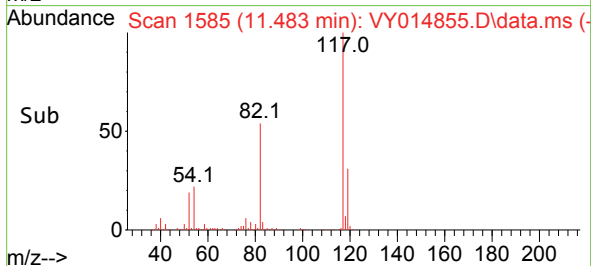
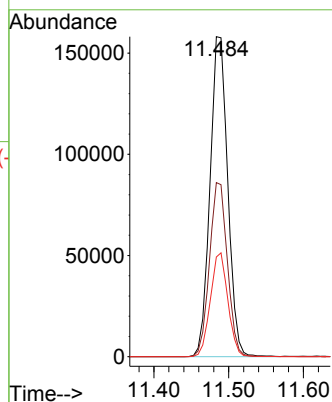
Tgt Ion:117 Resp: 260251

Ion Ratio Lower Upper

117 100

82 54.4 43.4 65.0

119 31.1 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: VY014855.D

Acq: 26 Jul 2023 17:27

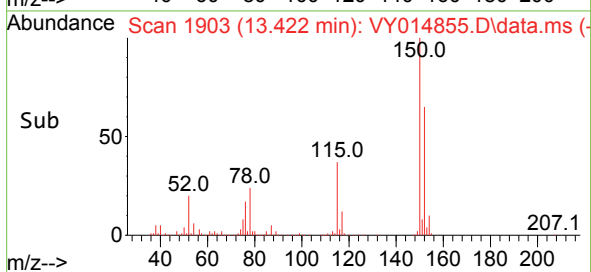
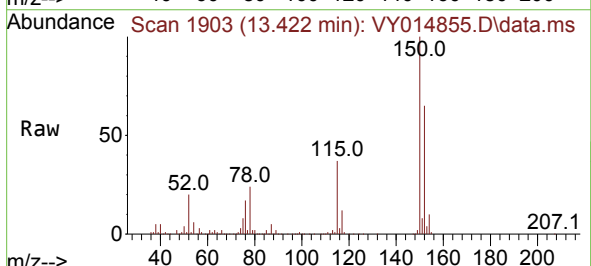
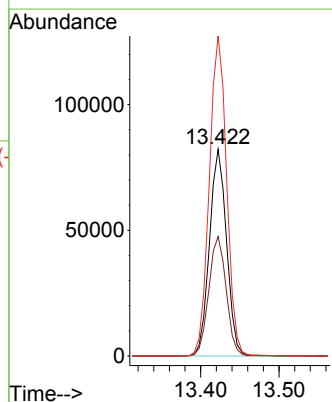
Tgt Ion:152 Resp: 124336

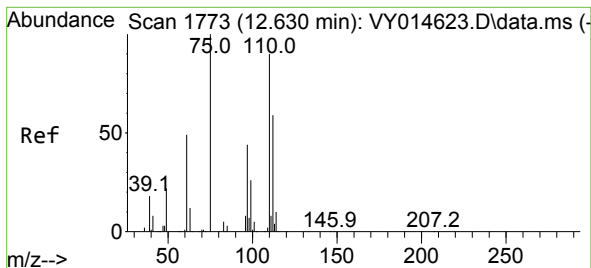
Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 157.2 0.0 348.8

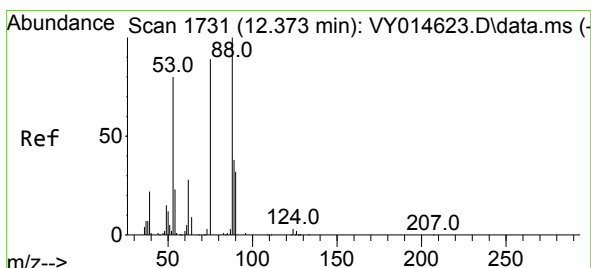
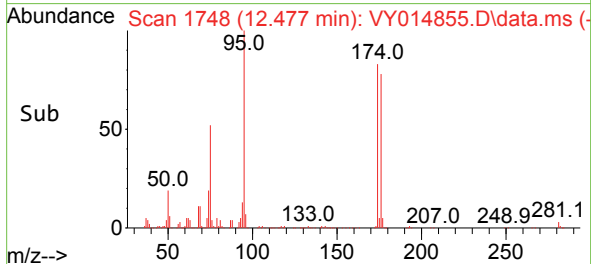
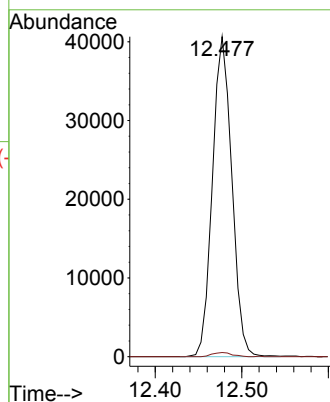
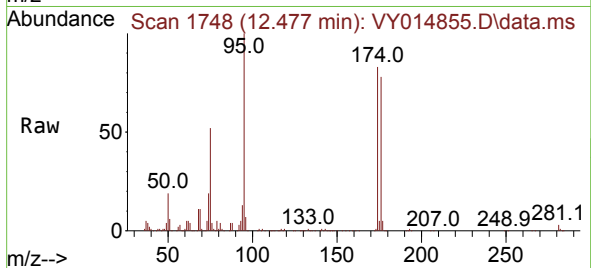




#76  
1,2,3-Trichloropropane  
Concen: 40.305 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 63292  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.038 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.104 min  
Lab File: VY014855.D  
Acq: 26 Jul 2023 17:27

Tgt Ion: 75 Resp: 63292  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#

