

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032224\  
 Data File : VY017742.D  
 Acq On : 22 Mar 2024 12:23  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VIBLK

Quant Time: Mar 23 03:45:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032224S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 23 03:33:45 2024  
 Response via : Initial Calibration

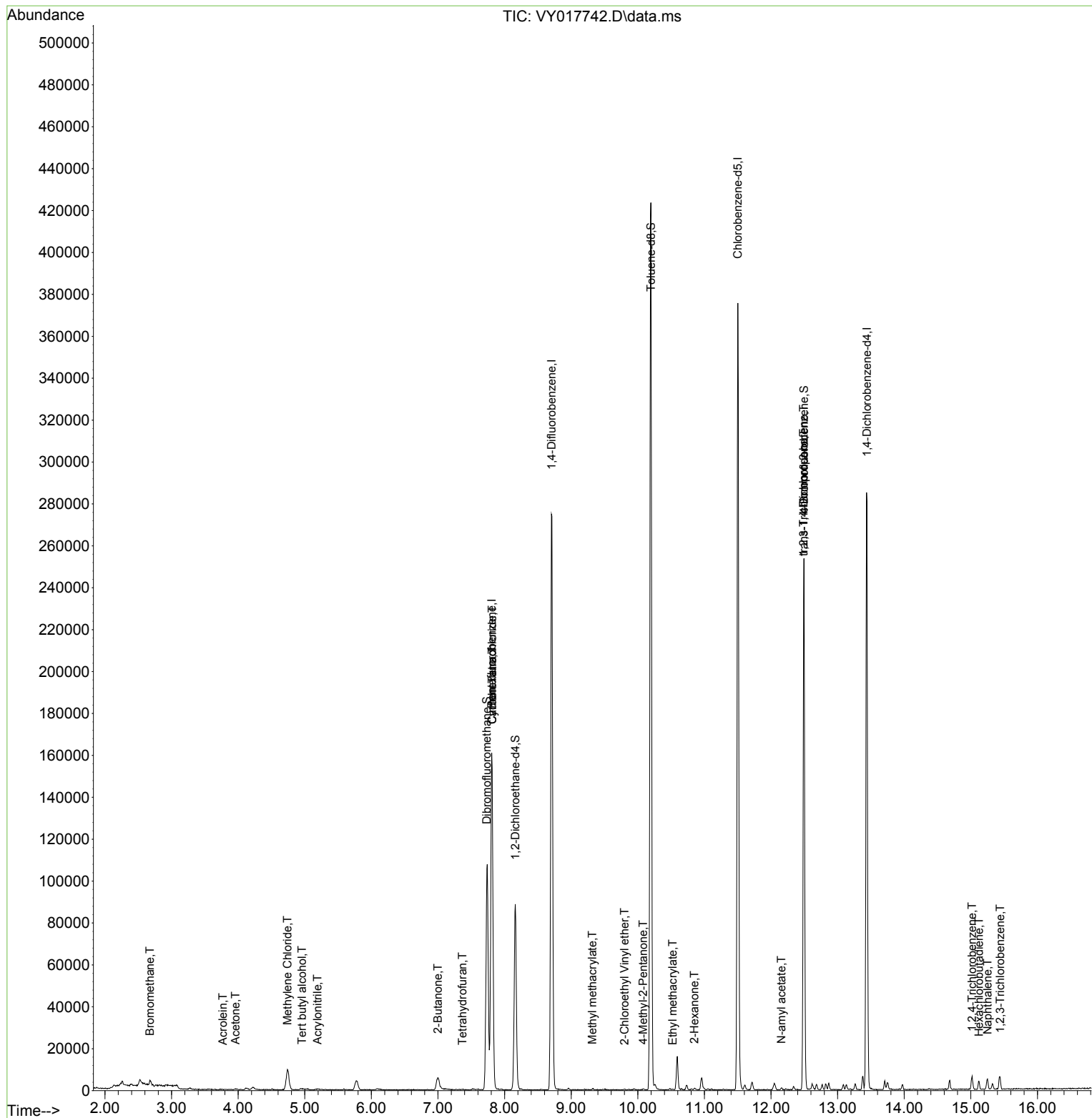
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.807  | 168   | 127904   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.703  | 114   | 242937   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.501 | 117   | 202977   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.440 | 152   | 75752    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.161  | 65    | 68004    | 61.030   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 122.060% |          |
| 35) Dibromofluoromethane      | 7.734  | 113   | 78129    | 53.801   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 107.600% |          |
| 50) Toluene-d8                | 10.197 | 98    | 279845   | 50.352   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 100.700% |          |
| 62) 4-Bromofluorobenzene      | 12.495 | 95    | 73487    | 44.033   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 88.060%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 2.674  | 94    | 1378     | 1.020    | ug/l       | 93       |
| 11) Tert butyl alcohol        | 4.960  | 59    | 496      | 6.692    | ug/l #     | 88       |
| 13) Acrolein                  | 3.771  | 56    | 189      | 2.116    | ug/l #     | 27       |
| 15) Acrylonitrile             | 5.192  | 53    | 405      | 1.627    | ug/l #     | 32       |
| 16) Acetone                   | 3.960  | 43    | 391      | 2.006    | ug/l #     | 79       |
| 20) Methylene Chloride        | 4.740  | 84    | 7394     | 5.217    | ug/l       | 95       |
| 25) 2-Butanone                | 6.996  | 43    | 313      | 8.885    | ug/l #     | 41       |
| 29) Tetrahydrofuran           | 7.368  | 42    | 243      | 5.528    | ug/l #     | 26       |
| 31) Cyclohexane               | 7.813  | 56    | 3074     | 1.395    | ug/l #     | 13       |
| 38) Carbon Tetrachloride      | 7.813  | 117   | 12101    | 5.151    | ug/l #     | 17       |
| 48) Methyl methacrylate       | 9.319  | 41    | 43       | 1.325    | ug/l #     | 28       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43    | 376      | 6.041    | ug/l #     | 79       |
| 56) Ethyl methacrylate        | 10.526 | 69    | 121      | 1.373    | ug/l #     | 61       |
| 58) 2-Chloroethyl Vinyl ether | 9.801  | 63    | 226      | 10.439   | ug/l #     | 45       |
| 59) 2-Hexanone                | 10.849 | 43    | 774      | 10.639   | ug/l       | 89       |
| 74) N-amyl acetate            | 12.154 | 43    | 636      | 2.831    | ug/l #     | 78       |
| 76) 1,2,3-Trichloropropane    | 12.489 | 75    | 39162    | 54.550   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.489 | 75    | 39162    | 129.362  | ug/l #     | 16       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180   | 2199     | 2.076    | ug/l       | 92       |
| 94) Hexachlorobutadiene       | 15.123 | 225   | 756      | 1.112    | ug/l       | 94       |
| 95) Naphthalene               | 15.251 | 128   | 4553     | 4.812    | ug/l       | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.440 | 180   | 2263     | 2.588    | ug/l       | 98       |
| -----                         |        |       |          |          |            |          |

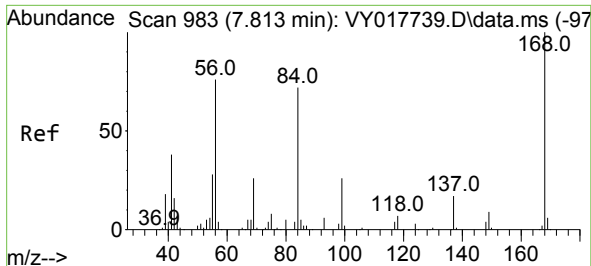
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VIBLK  
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Quant Time: Mar 23 03:45:34 2024  
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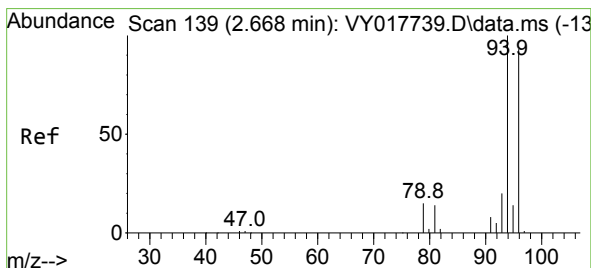
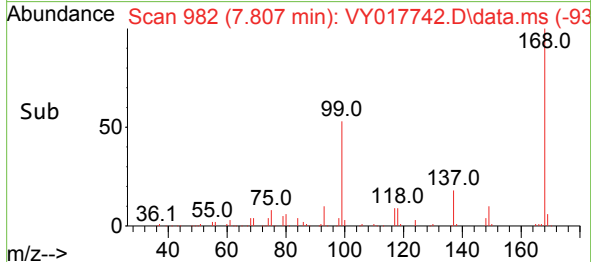
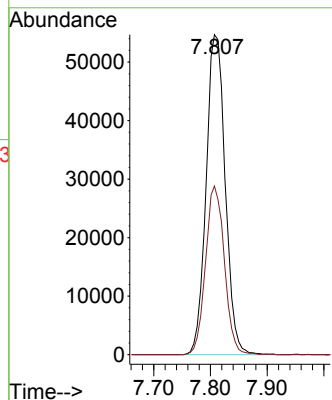
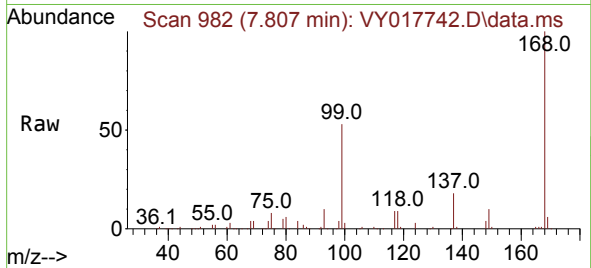




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.807 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

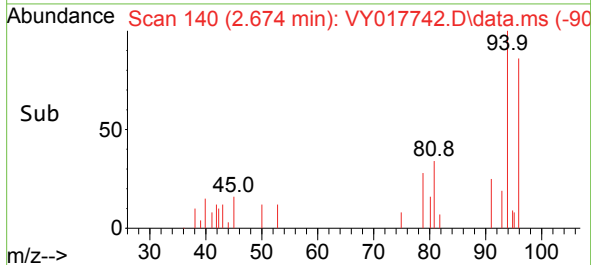
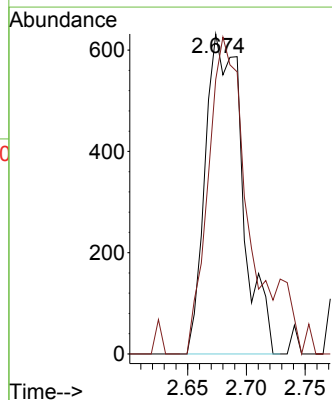
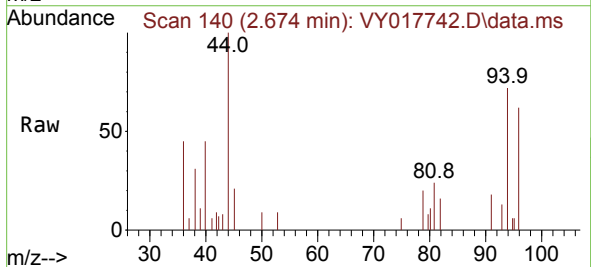
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

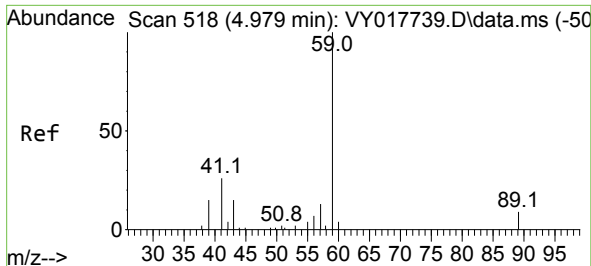
Tgt Ion:168 Resp: 127904  
Ion Ratio Lower Upper  
168 100  
99 52.7 39.1 58.7



#5  
Bromomethane  
Concen: 1.020 ug/l  
RT: 2.674 min Scan# 140  
Delta R.T. 0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion: 94 Resp: 1378  
Ion Ratio Lower Upper  
94 100  
96 85.8 74.1 111.1





#11

Tert butyl alcohol

Concen: 6.692 ug/l

RT: 4.960 min Scan# 518

Delta R.T. -0.019 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

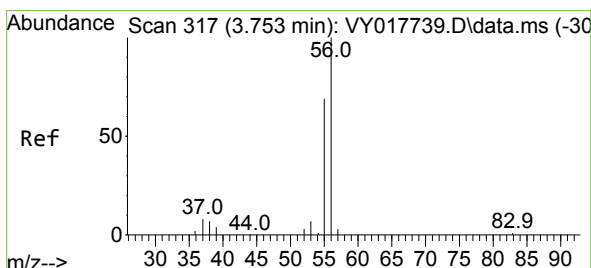
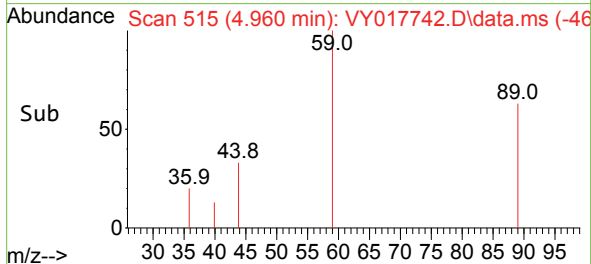
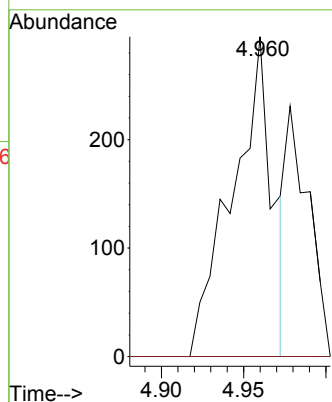
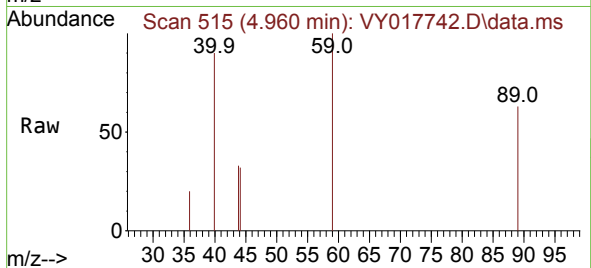
VIBLK

Tgt Ion: 59 Resp: 496

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#13

Acrolein

Concen: 2.116 ug/l

RT: 3.771 min Scan# 320

Delta R.T. 0.018 min

Lab File: VY017742.D

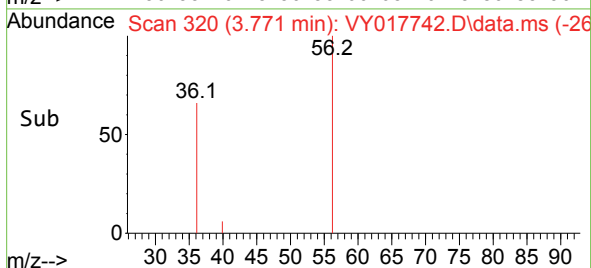
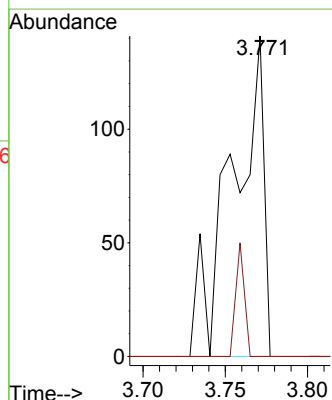
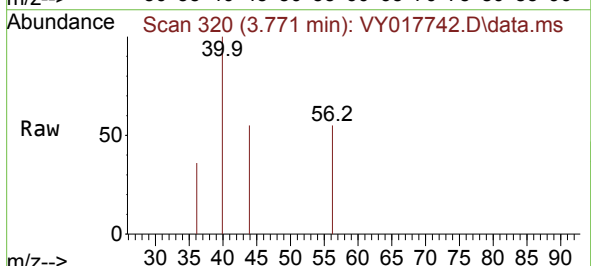
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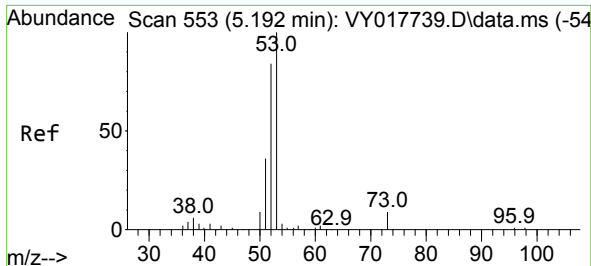
Tgt Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 9.5 55.7 83.5#

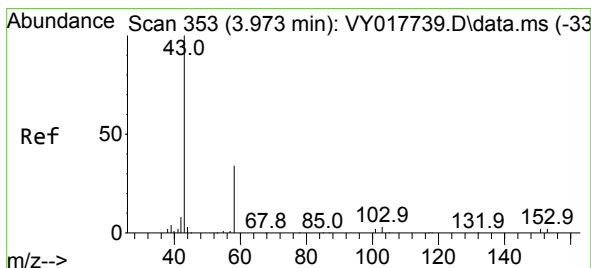
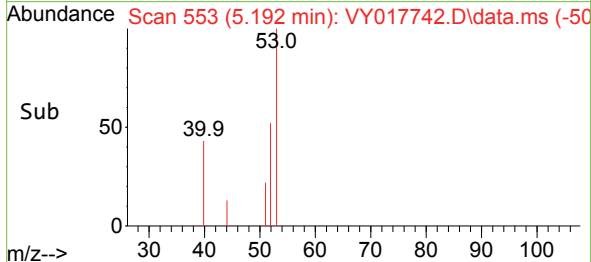
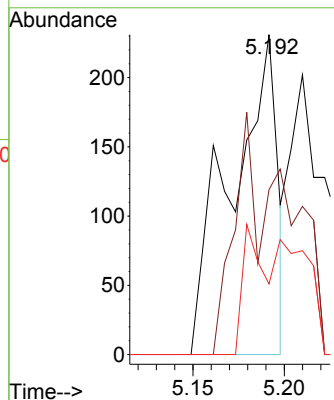
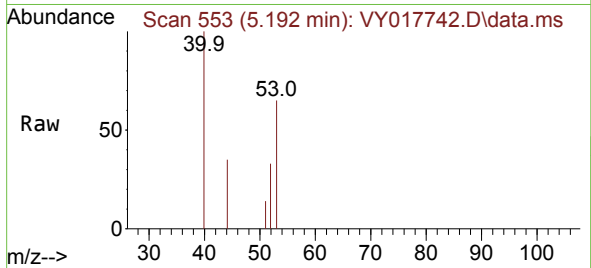




#15  
Acrylonitrile  
Concen: 1.627 ug/l  
RT: 5.192 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

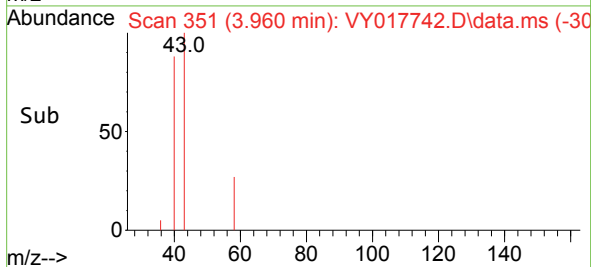
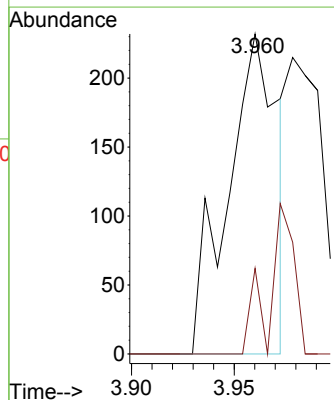
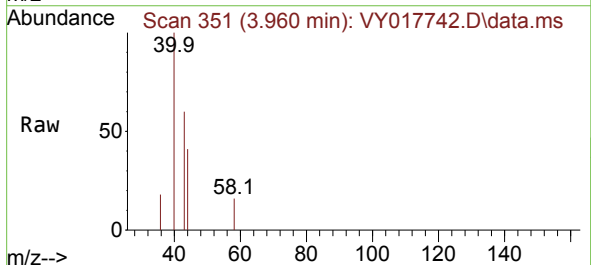
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

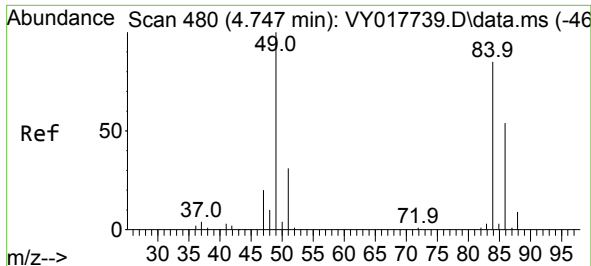
Tgt Ion: 53 Resp: 405  
Ion Ratio Lower Upper  
53 100  
52 0.0 64.7 97.1#  
51 26.7 28.4 42.6#



#16  
Acetone  
Concen: 2.006 ug/l  
RT: 3.960 min Scan# 351  
Delta R.T. -0.012 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion: 43 Resp: 391  
Ion Ratio Lower Upper  
43 100  
58 26.7 31.7 47.5#





#20

Methylene Chloride

Concen: 5.217 ug/l

RT: 4.740 min Scan# 41

Delta R.T. -0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

VIBLK

Tgt Ion: 84 Resp: 7394

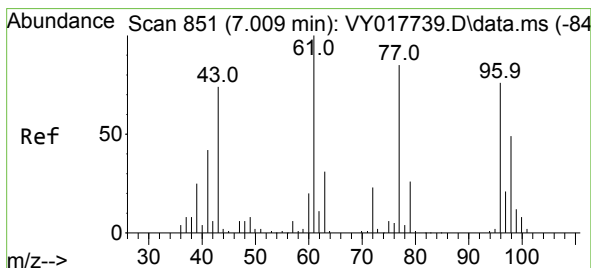
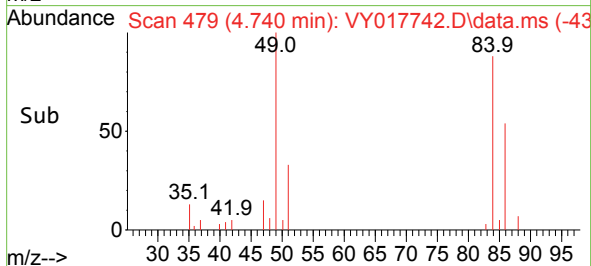
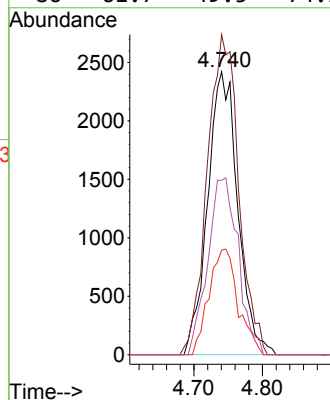
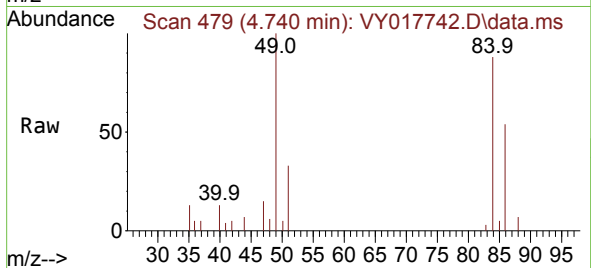
Ion Ratio Lower Upper

84 100

49 113.1 84.4 126.6

51 37.0 26.0 39.0

86 61.7 49.5 74.3



#25

2-Butanone

Concen: 8.885 ug/l

RT: 6.996 min Scan# 849

Delta R.T. -0.013 min

Lab File: VY017742.D

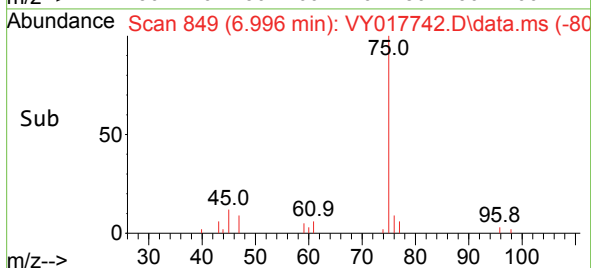
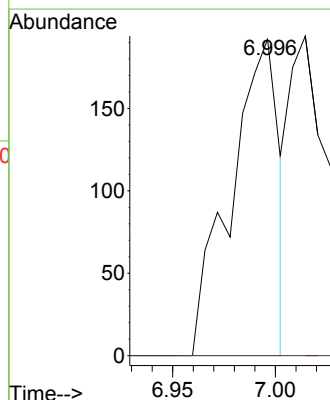
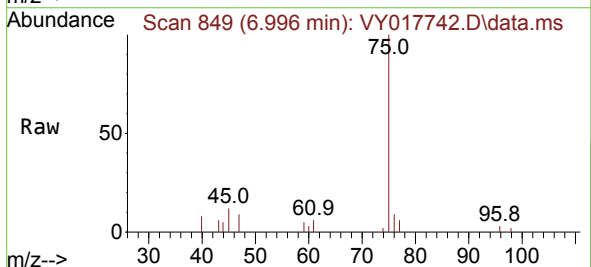
Acq: 22 Mar 2024 12:23

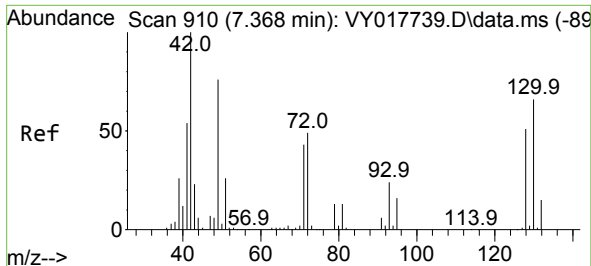
Tgt Ion: 43 Resp: 313

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#





#29

Tetrahydrofuran

Concen: 5.528 ug/l

RT: 7.368 min Scan# 910

Delta R.T. 0.000 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

VIBLK

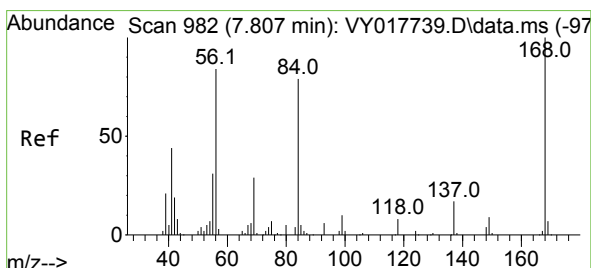
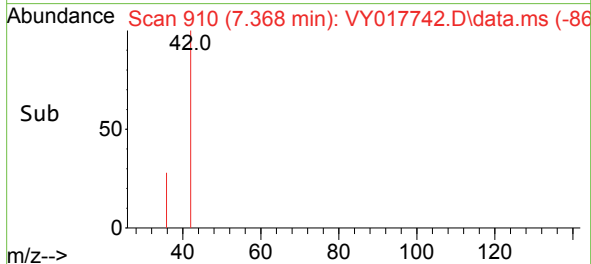
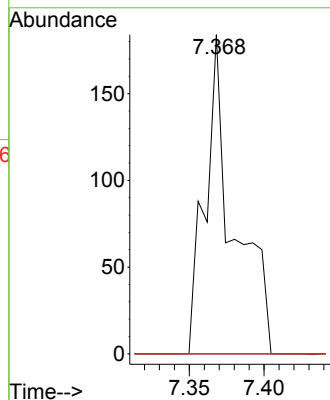
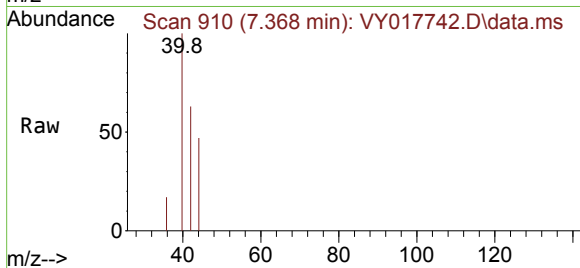
Tgt Ion: 42 Resp: 243

Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

71 0.0 40.8 61.2#



#31

Cyclohexane

Concen: 1.395 ug/l

RT: 7.813 min Scan# 983

Delta R.T. 0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

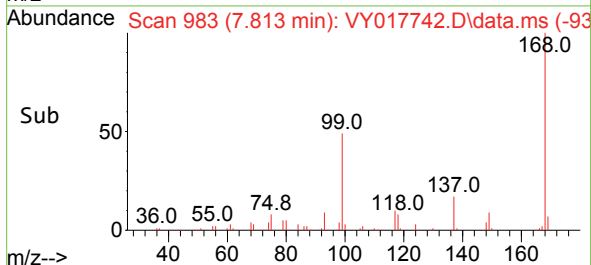
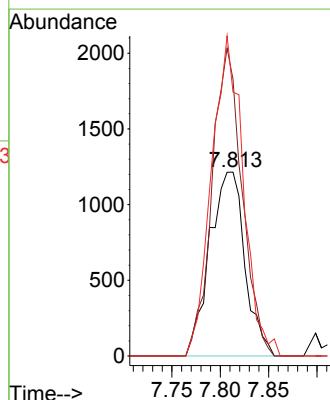
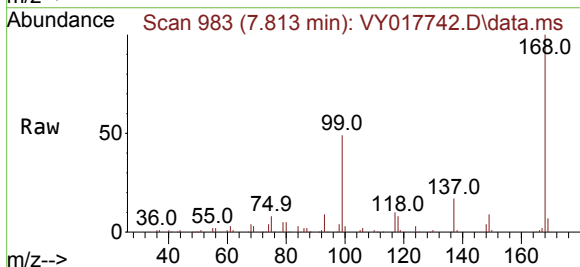
Tgt Ion: 56 Resp: 3074

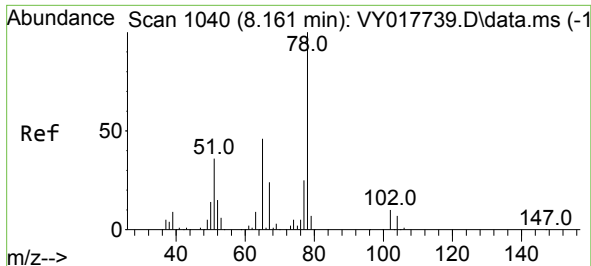
Ion Ratio Lower Upper

56 100

69 150.5 28.7 43.1#

84 143.5 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 61.030 ug/l

RT: 8.161 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

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ClientSampleId :

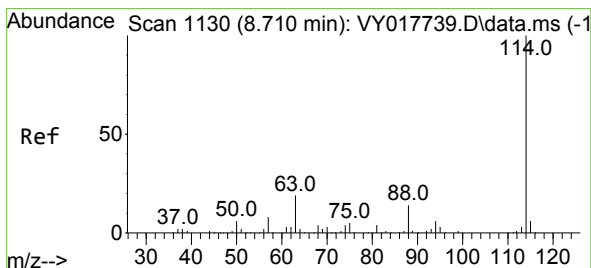
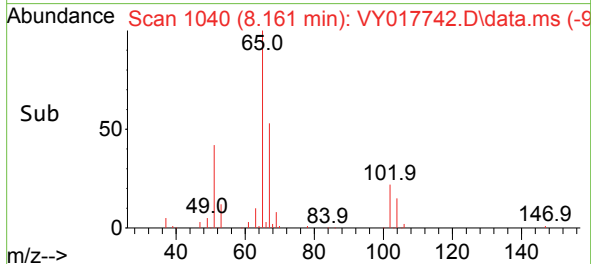
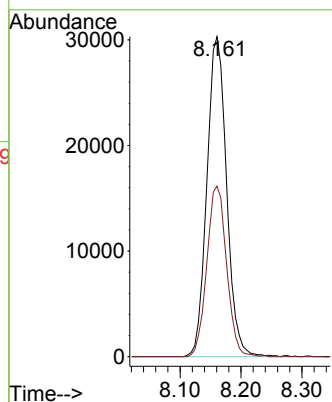
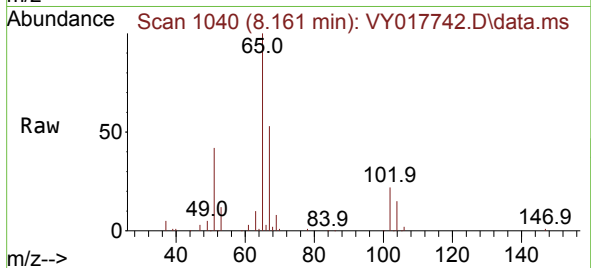
VIBLK

Tgt Ion: 65 Resp: 68004

Ion Ratio Lower Upper

65 100

67 53.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

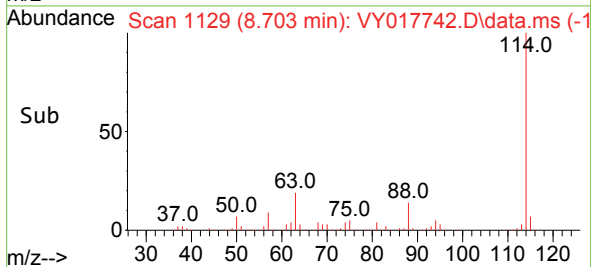
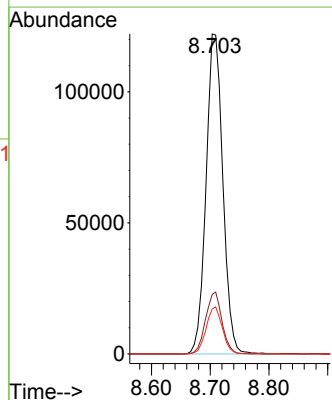
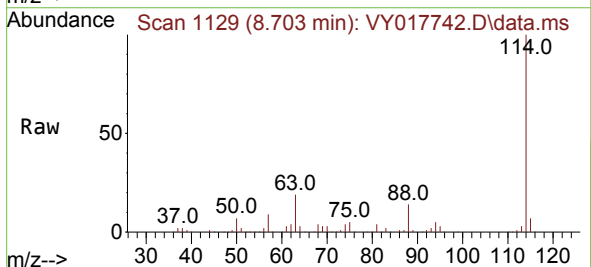
Tgt Ion: 114 Resp: 242937

Ion Ratio Lower Upper

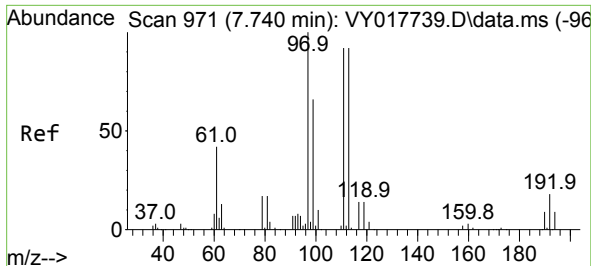
114 100

63 18.6 0.0 35.0

88 14.1 0.0 27.2



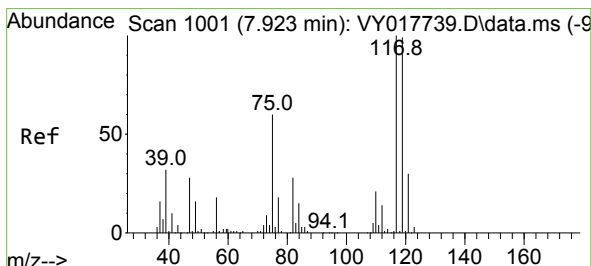
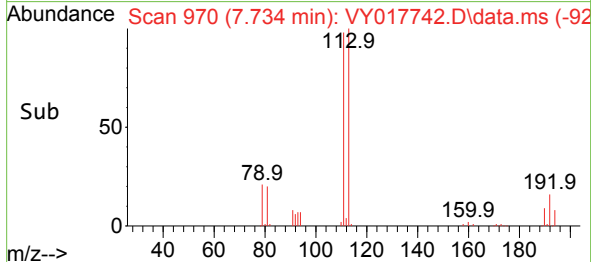
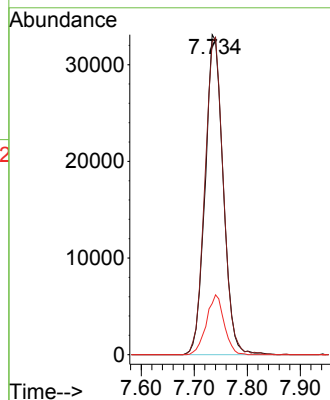
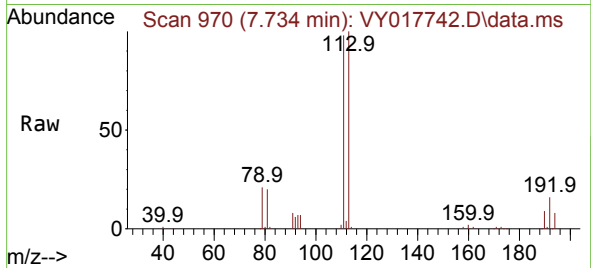




#35  
Dibromofluoromethane  
Concen: 53.801 ug/l  
RT: 7.734 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

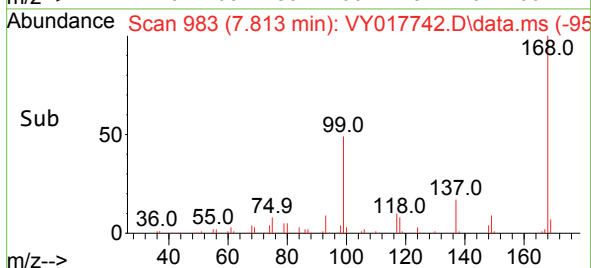
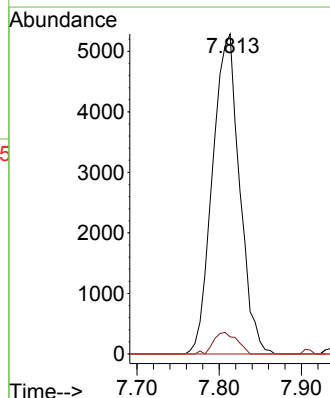
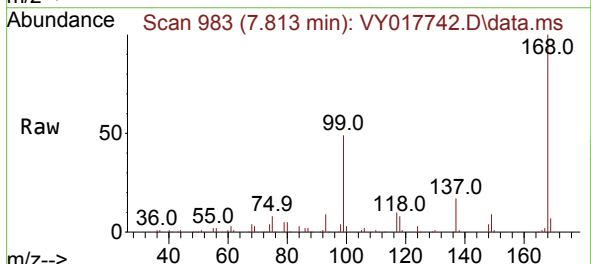
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

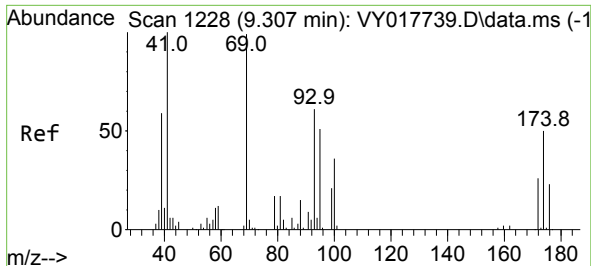
Tgt Ion:113 Resp: 78129  
Ion Ratio Lower Upper  
113 100  
111 101.2 82.2 123.4  
192 18.4 15.9 23.9



#38  
Carbon Tetrachloride  
Concen: 5.151 ug/l  
RT: 7.813 min Scan# 983  
Delta R.T. -0.110 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion:117 Resp: 12101  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.8 113.6#  
121 0.0 24.0 36.0#

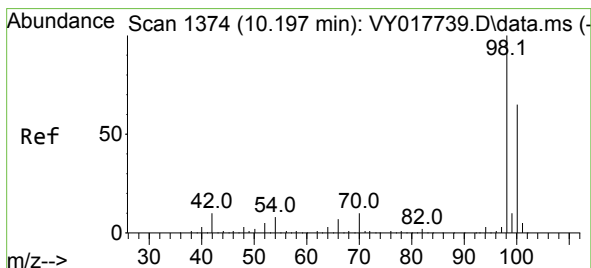
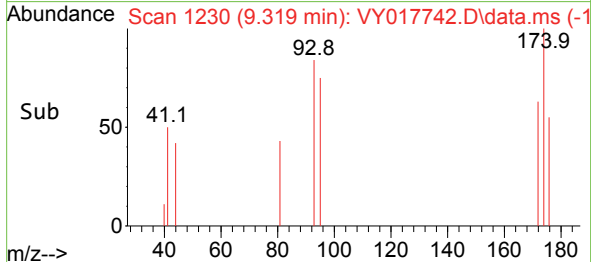
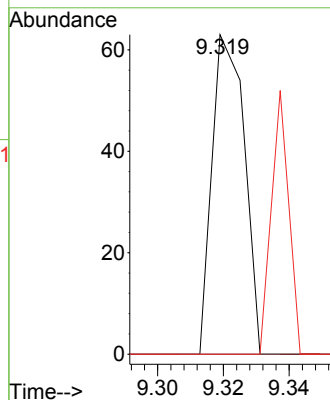
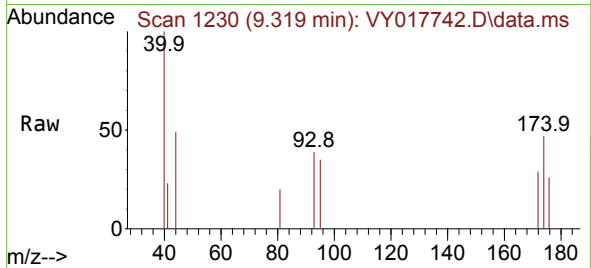




#48  
Methyl methacrylate  
Concen: 1.325 ug/l  
RT: 9.319 min Scan# 1230  
Delta R.T. 0.012 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

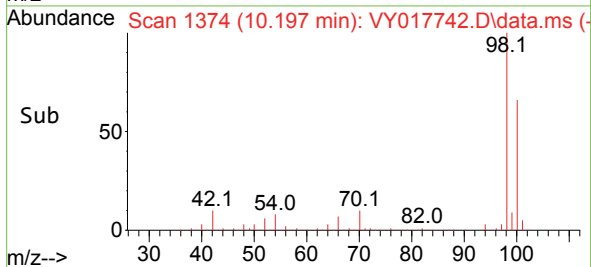
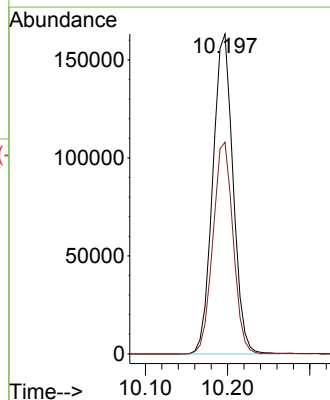
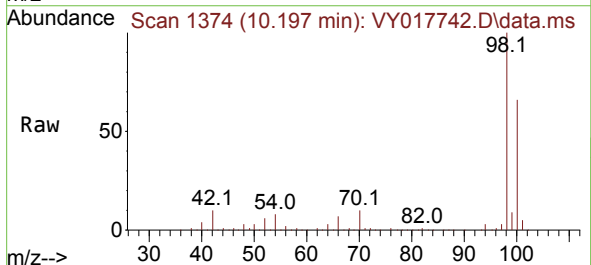
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

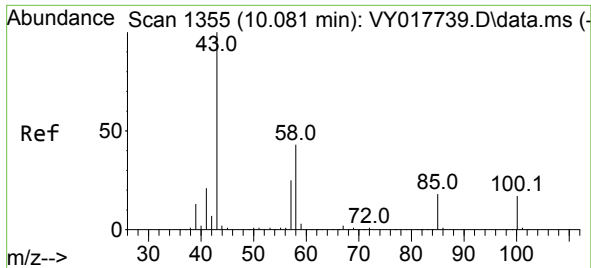
Tgt Ion: 41 Resp: 43  
Ion Ratio Lower Upper  
41 100  
69 0.0 84.1 126.1#  
39 44.2 43.6 65.4



#50  
Toluene-d8  
Concen: 50.352 ug/l  
RT: 10.197 min Scan# 1374  
Delta R.T. -0.000 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion: 98 Resp: 279845  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 6.041 ug/l

RT: 10.081 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

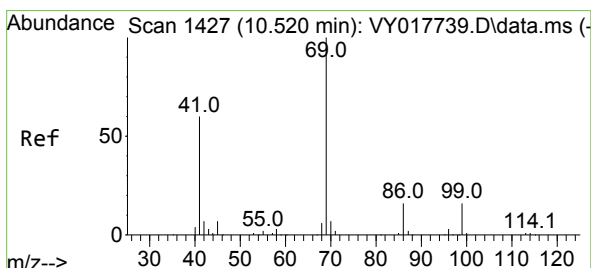
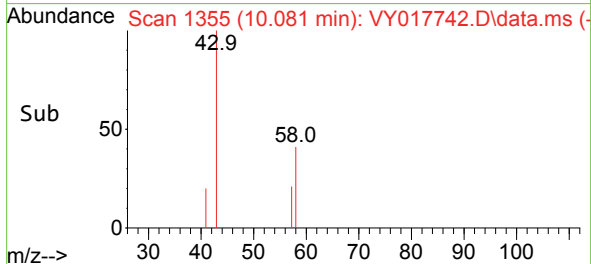
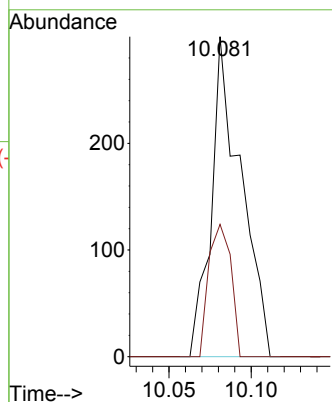
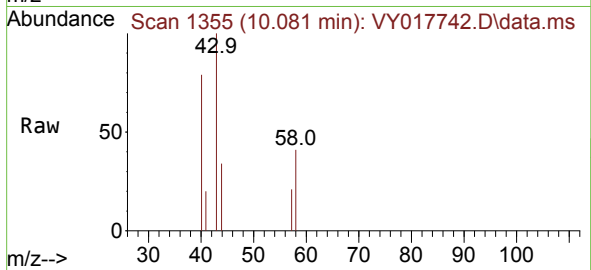
VIBLK

Tgt Ion: 43 Resp: 376

Ion Ratio Lower Upper

43 100

58 30.9 35.7 53.5#



#56

Ethyl methacrylate

Concen: 1.373 ug/l

RT: 10.526 min Scan# 1428

Delta R.T. 0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

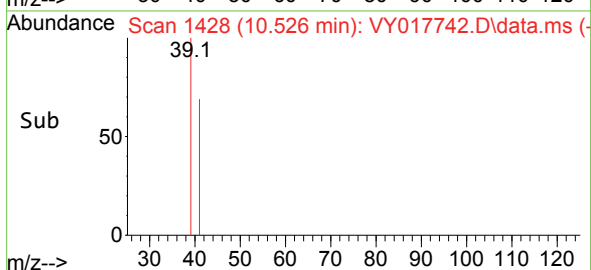
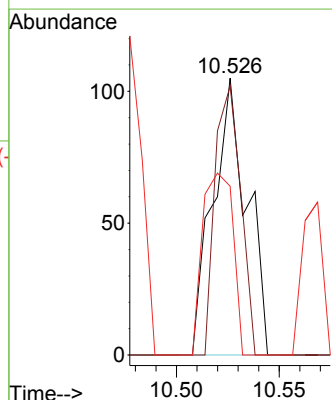
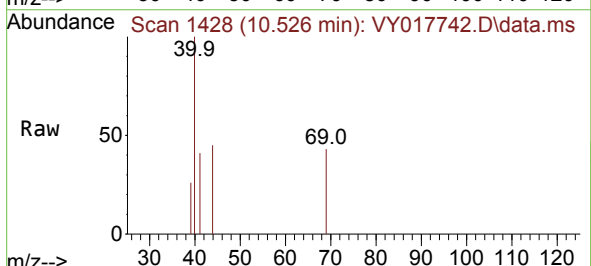
Tgt Ion: 69 Resp: 121

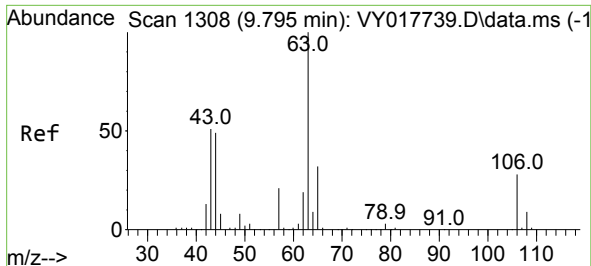
Ion Ratio Lower Upper

69 100

41 73.6 42.3 63.5#

39 58.7 22.9 34.3#

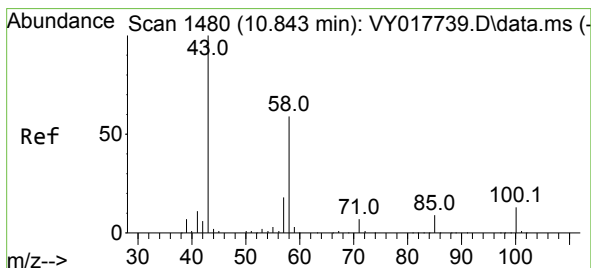
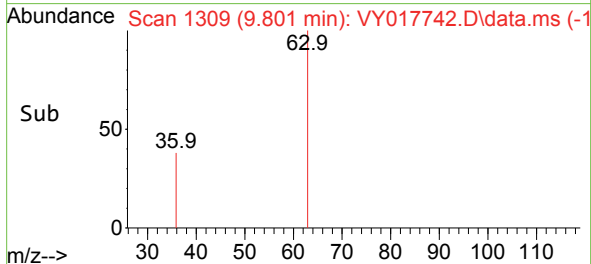
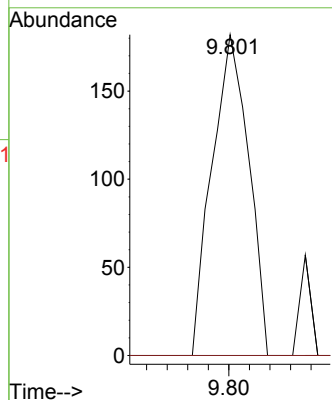
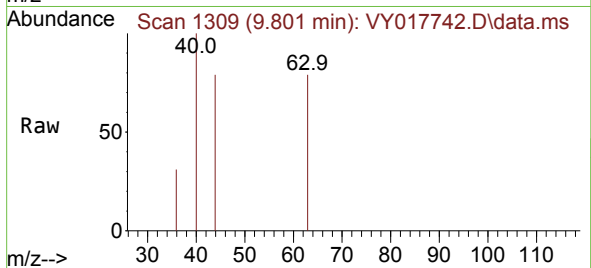




#58  
2-Chloroethyl Vinyl ether  
Concen: 10.439 ug/l  
RT: 9.801 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

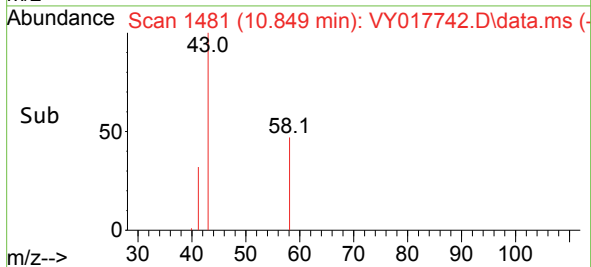
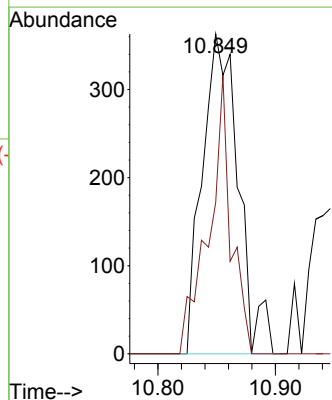
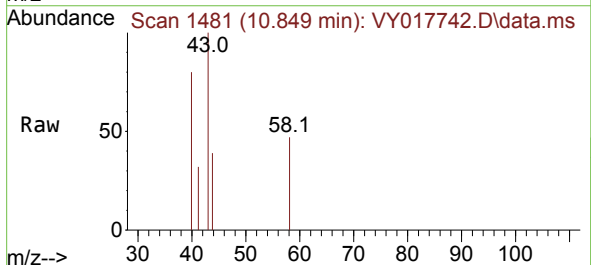
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

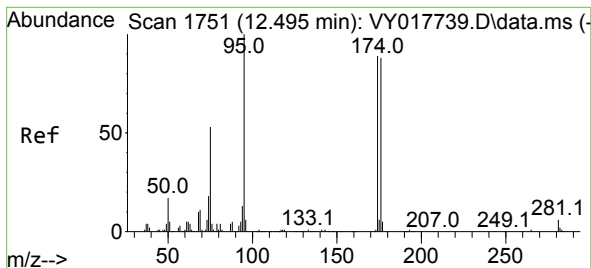
Tgt Ion: 63 Resp: 226  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.7 35.5#



#59  
2-Hexanone  
Concen: 10.639 ug/l  
RT: 10.849 min Scan# 1481  
Delta R.T. 0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion: 43 Resp: 774  
Ion Ratio Lower Upper  
43 100  
58 53.9 31.4 94.0

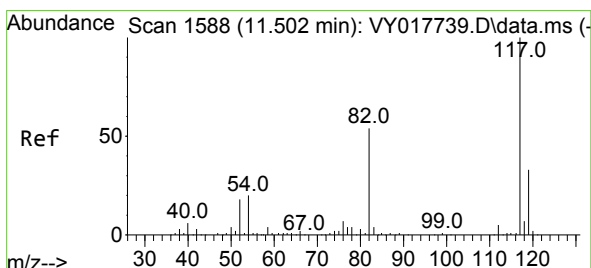
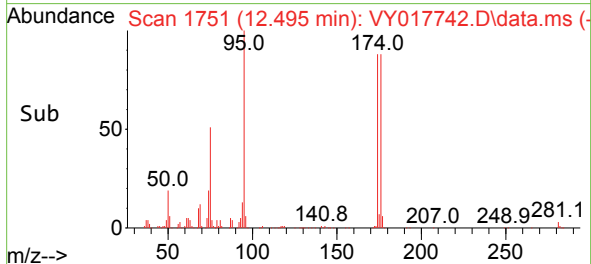
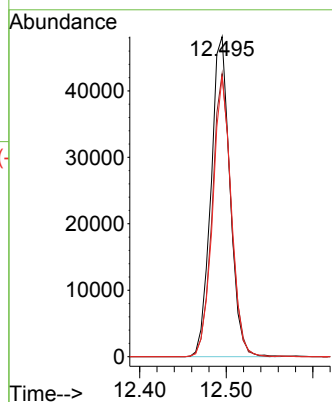
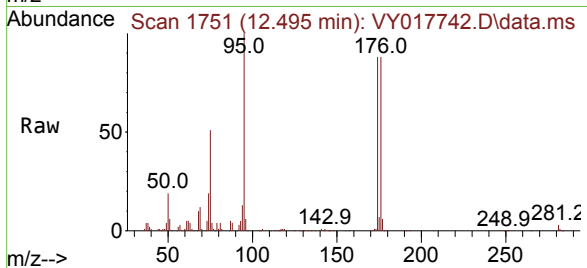




#62  
4-Bromofluorobenzene  
Concen: 44.033 ug/l  
RT: 12.495 min Scan# 1751  
Delta R.T. -0.000 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

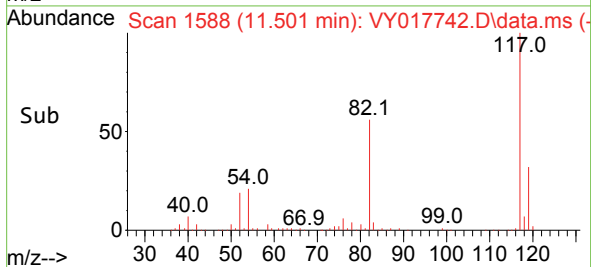
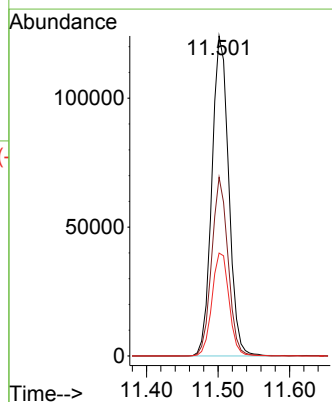
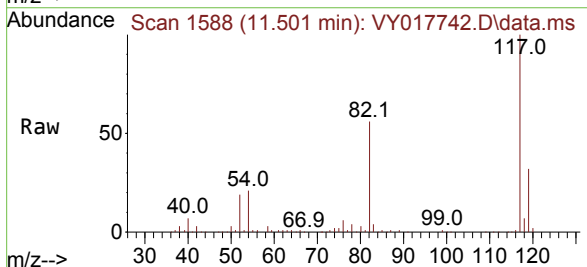
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

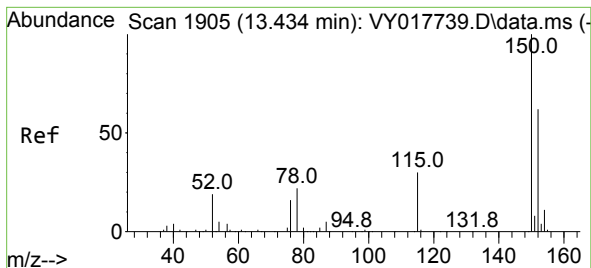
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 73487 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 87.1  | 0.0   | 175.6 |
| 176      | 85.6  | 0.0   | 171.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.501 min Scan# 1588  
Delta R.T. -0.000 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 202977 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 55.8  | 42.4  | 63.6   |
| 119      | 32.1  | 25.9  | 38.9   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

VIBLK

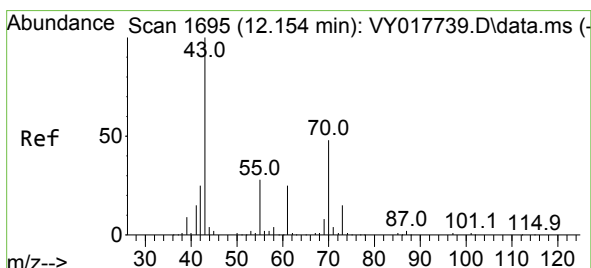
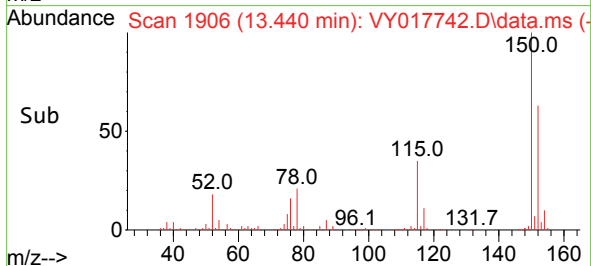
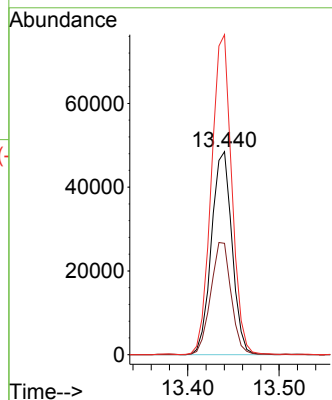
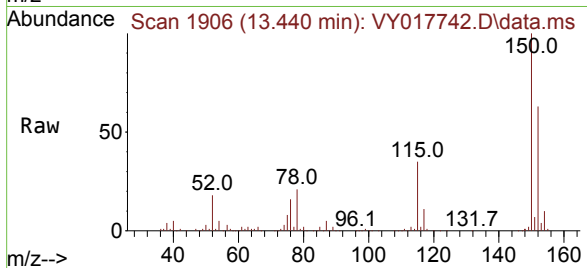
Tgt Ion:152 Resp: 75752

Ion Ratio Lower Upper

152 100

115 55.0 28.2 84.7

150 155.7 0.0 345.6



#74

N-ethyl acetate

Concen: 2.831 ug/l

RT: 12.154 min Scan# 1695

Delta R.T. -0.000 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Tgt Ion: 43 Resp: 636

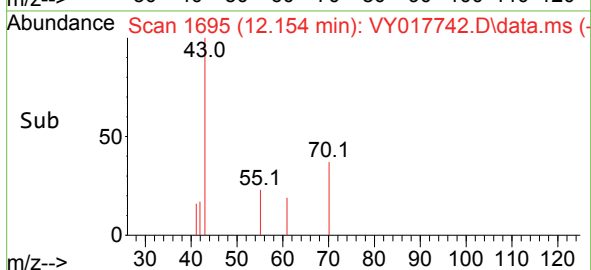
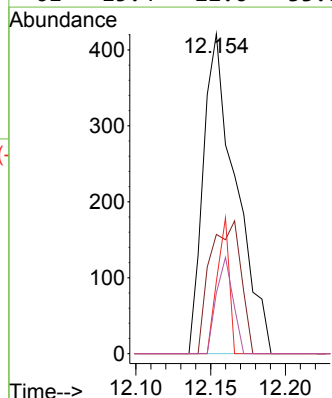
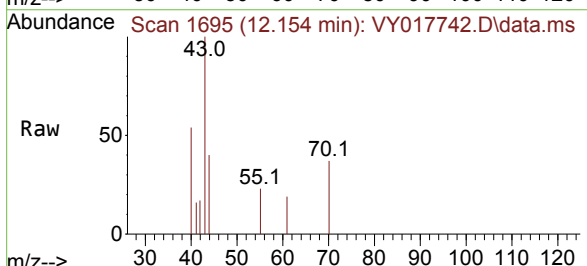
Ion Ratio Lower Upper

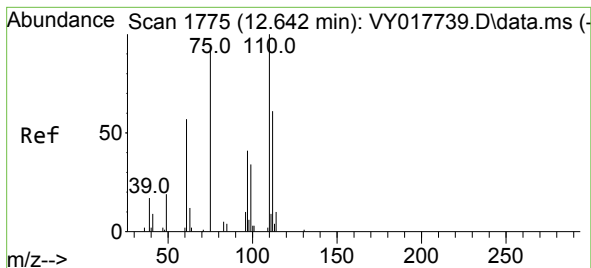
43 100

70 39.0 41.4 62.2#

55 15.7 23.3 34.9#

61 15.4 22.6 33.8#

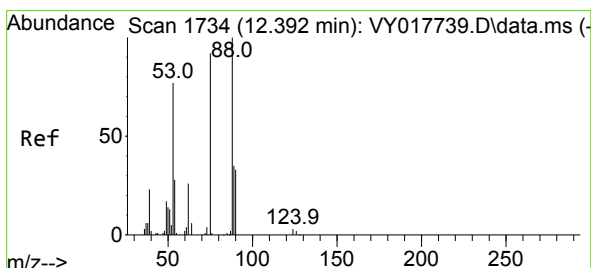
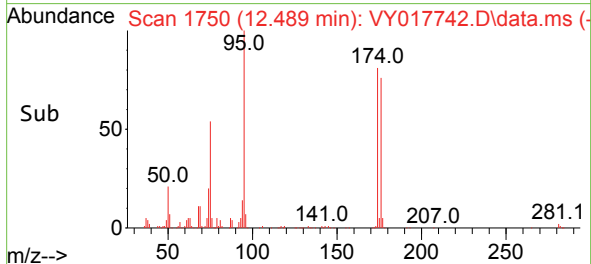
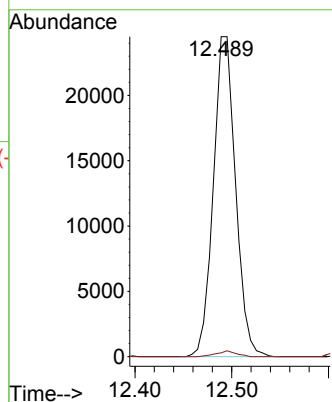
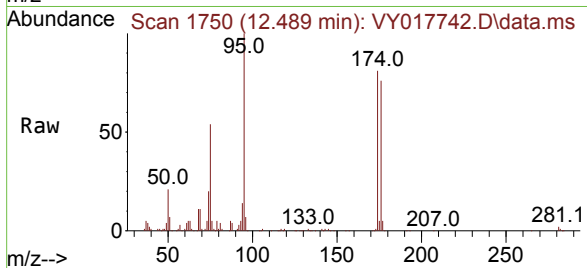




#76  
1,2,3-Trichloropropane  
Concen: 54.550 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. -0.153 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

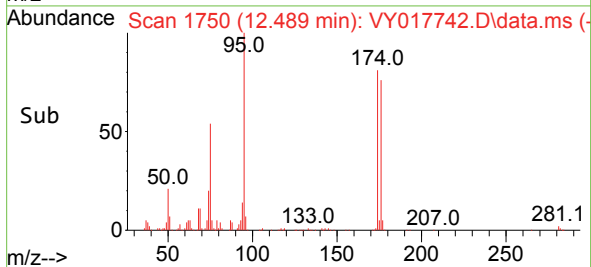
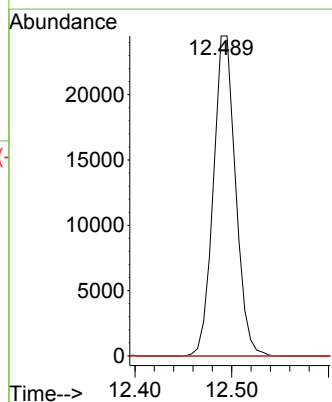
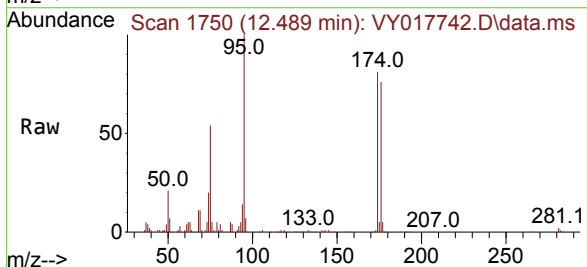
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

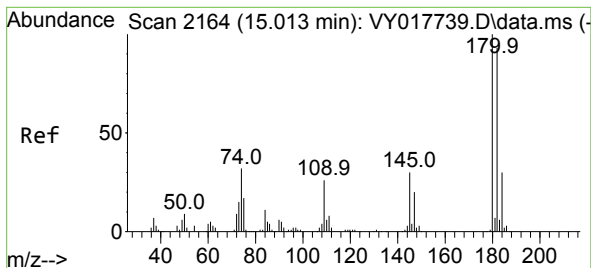
Tgt Ion: 75 Resp: 39162  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 129.362 ug/l  
RT: 12.489 min Scan# 1750  
Delta R.T. 0.097 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Tgt Ion: 75 Resp: 39162  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.8 100.2#  
89 0.0 35.8 53.6#





#93

1,2,4-Trichlorobenzene

Concen: 2.076 ug/l

RT: 15.019 min Scan# 2165

Delta R.T. 0.006 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

Instrument :

MSVOA\_Y

ClientSampleId :

VIBLK

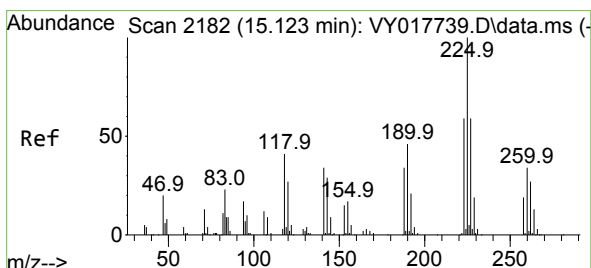
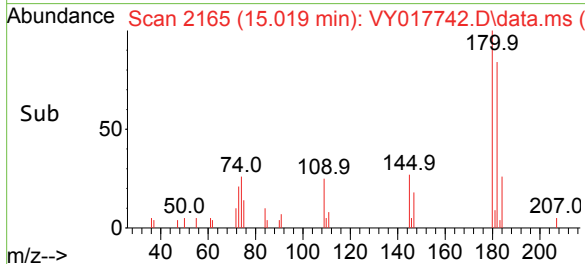
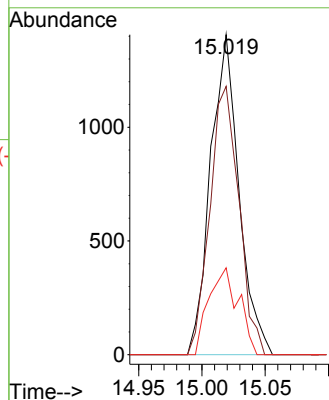
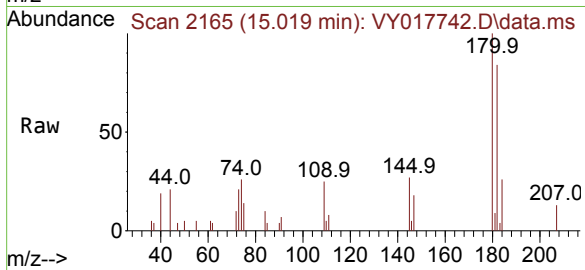
Tgt Ion:180 Resp: 2199

Ion Ratio Lower Upper

180 100

182 85.6 47.9 143.8

145 28.5 14.2 42.6



#94

Hexachlorobutadiene

Concen: 1.112 ug/l

RT: 15.123 min Scan# 2182

Delta R.T. -0.000 min

Lab File: VY017742.D

Acq: 22 Mar 2024 12:23

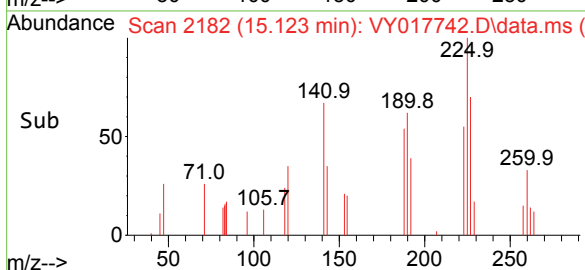
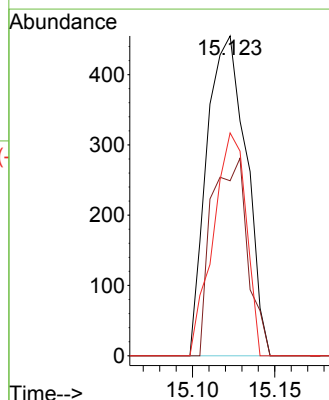
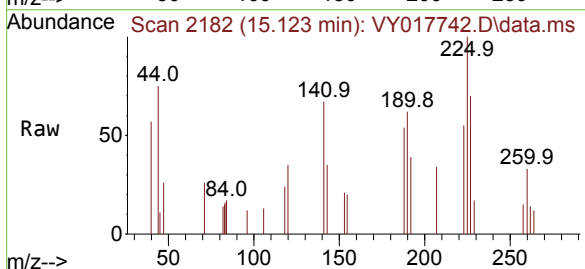
Tgt Ion:225 Resp: 756

Ion Ratio Lower Upper

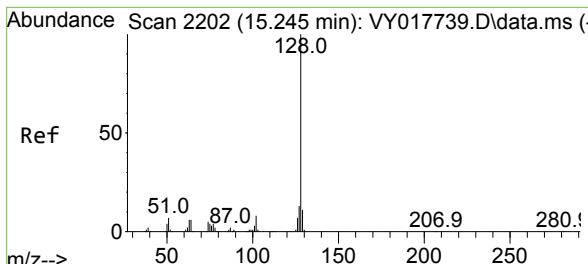
225 100

223 56.3 30.4 91.2

227 58.6 31.9 95.9



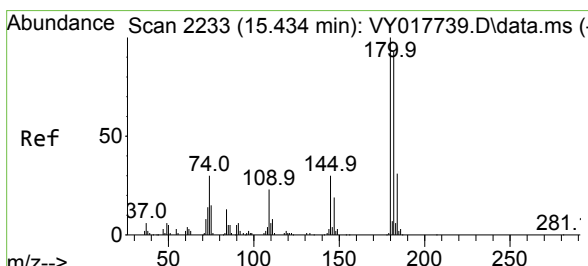
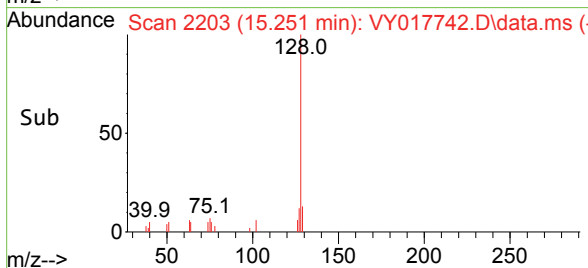
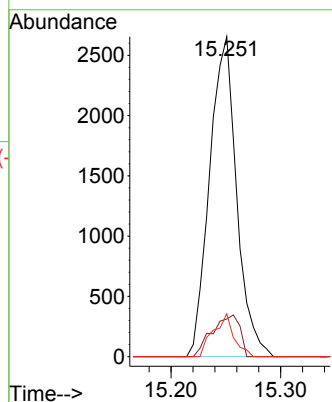
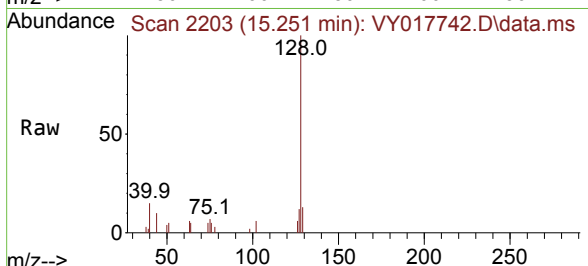




#95  
Naphthalene  
Concen: 4.812 ug/l  
RT: 15.251 min Scan# 2203  
Delta R.T. 0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VIBLK

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4553  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.3  | 10.6  | 16.0  |
| 129      | 10.1  | 8.6   | 13.0  |



#96  
1,2,3-Trichlorobenzene  
Concen: 2.588 ug/l  
RT: 15.440 min Scan# 2234  
Delta R.T. 0.006 min  
Lab File: VY017742.D  
Acq: 22 Mar 2024 12:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2263  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.3  | 47.6  | 142.9 |
| 145      | 28.7  | 15.4  | 46.1  |

