

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052424\  
 Data File : VY018367.D  
 Acq On : 24 May 2024 15:56  
 Operator : SY/MD  
 Sample : P2330-22  
 Misc : 4.92g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 25 03:25:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052224S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 23 01:40:36 2024  
 Response via : Initial Calibration

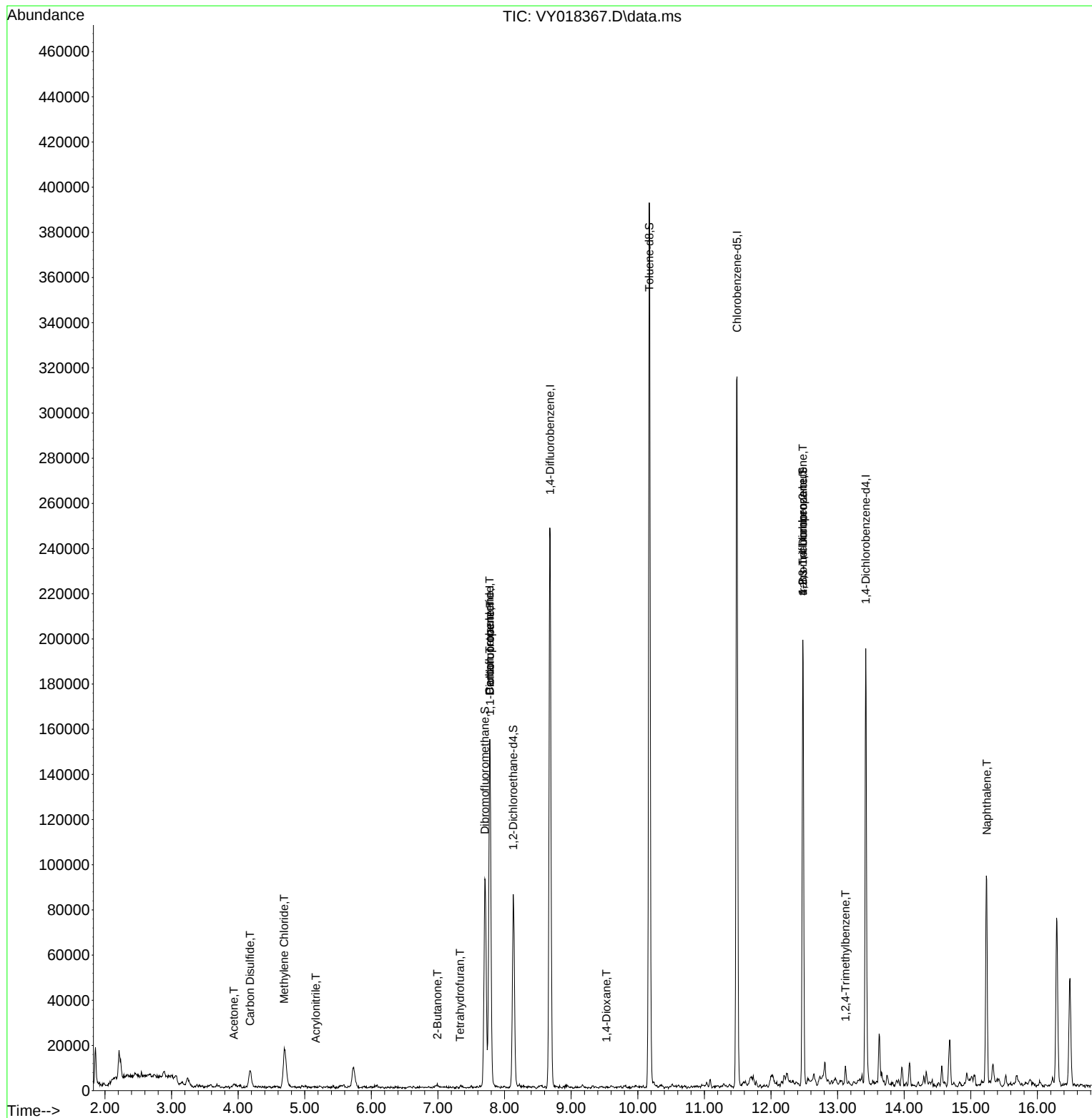
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.777  | 168   | 112702   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 219866   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 173918   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 45415    | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.130  | 65    | 60574    | 56.730    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 113.460% |
| 35) Dibromofluoromethane      | 7.704  | 113   | 65214    | 50.863    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 101.720% |
| 50) Toluene-d8                | 10.173 | 98    | 248054   | 49.622    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 99.240%  |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 61221    | 39.635    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 79.280%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.930  | 59    | 134      | Below Cal | #      | 66       |
| 13) Acrolein                  | 3.717  | 56    | 60       | Below Cal | #      | 15       |
| 15) Acrylonitrile             | 5.168  | 53    | 309      | 1.140     | ug/l # | 33       |
| 16) Acetone                   | 3.936  | 43    | 2649     | 12.062    | ug/l   | 97       |
| 17) Carbon Disulfide          | 4.180  | 76    | 16287    | 4.891     | ug/l   | 98       |
| 20) Methylene Chloride        | 4.692  | 84    | 13635    | 6.579     | ug/l   | 88       |
| 25) 2-Butanone                | 6.990  | 43    | 1074     | 3.086     | ug/l # | 82       |
| 29) Tetrahydrofuran           | 7.332  | 42    | 380      | 1.659     | ug/l # | 55       |
| 31) Cyclohexane               | 7.777  | 56    | 3315     | Below Cal | #      | 35       |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 9591     | 5.158     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.777  | 117   | 11389    | 5.980     | ug/l # | 14       |
| 49) 1,4-Dioxane               | 9.527  | 88    | 31       | 3.194     | ug/l # | 20       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 31934    | 78.235    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 31934    | 160.969   | ug/l # | 16       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 3796     | 1.376     | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128   | 74846    | 50.023    | ug/l   | 99       |
| -----                         |        |       |          |           |        |          |

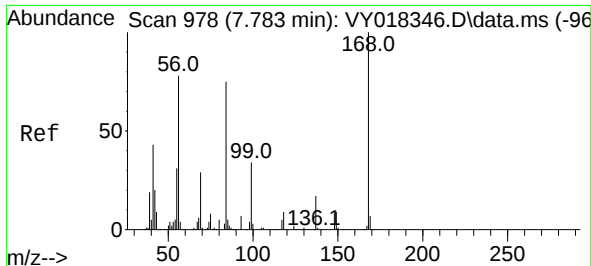
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052424\  
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MSVOA\_Y  
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Quant Time: May 25 03:25:23 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052224S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 23 01:40:36 2024  
Response via : Initial Calibration

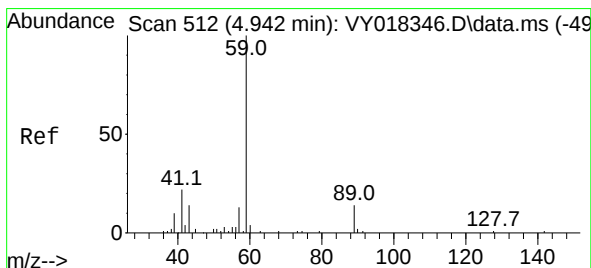
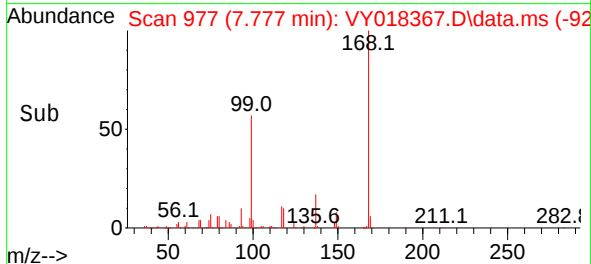
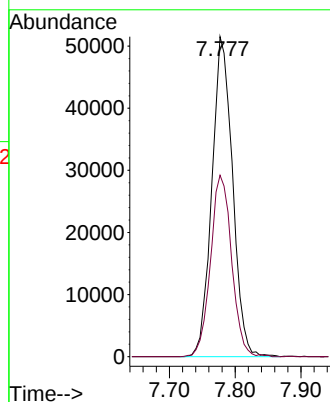
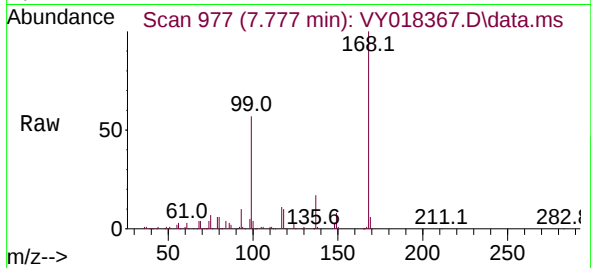




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

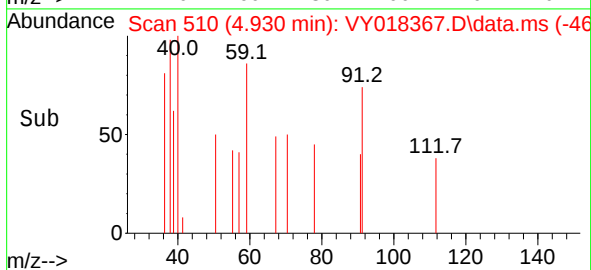
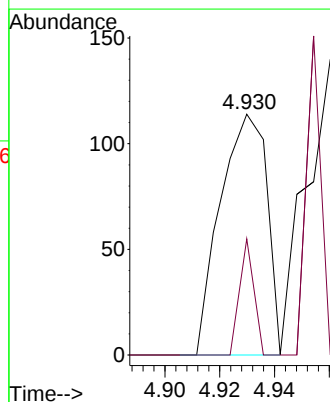
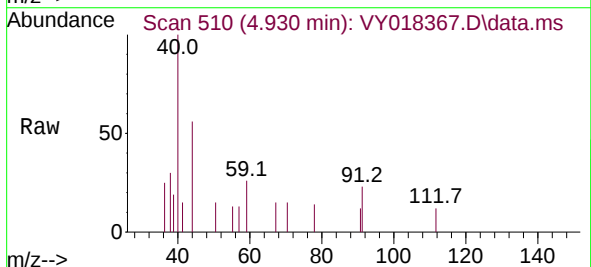
Instrument :  
MSVOA\_Y  
ClientSampleId :

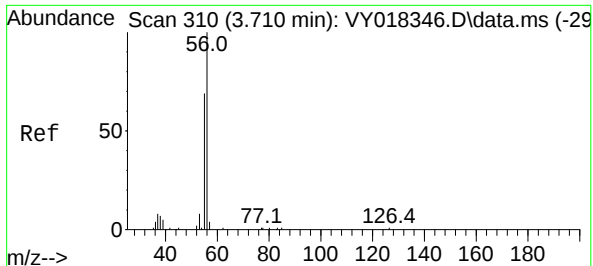
Tgt Ion:168 Resp: 112702  
Ion Ratio Lower Upper  
168 100  
99 56.7 39.1 58.7



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.930 min Scan# 510  
Delta R.T. -0.012 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

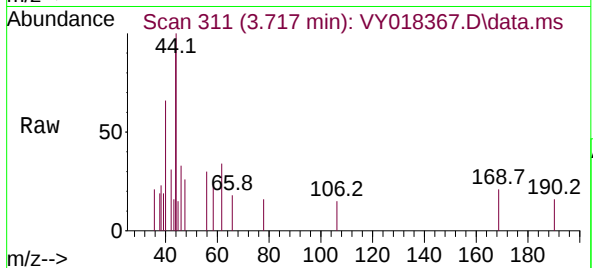
Tgt Ion: 59 Resp: 134  
Ion Ratio Lower Upper  
59 100  
57 14.9 3.0 4.6#



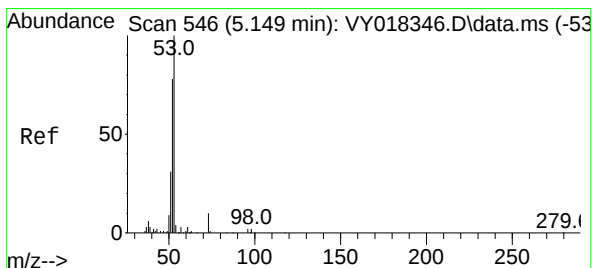
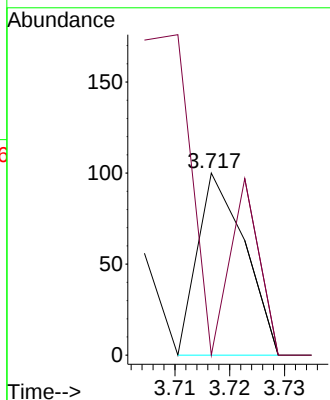
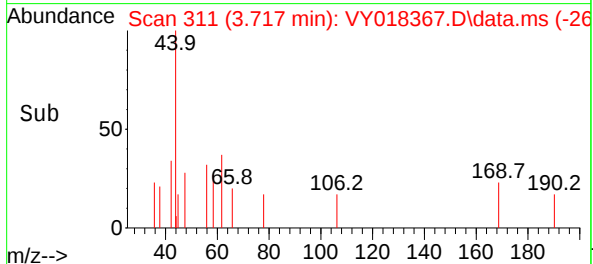


#13  
Acrolein  
Concen: Below Cal  
RT: 3.717 min Scan# 311  
Delta R.T. 0.007 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

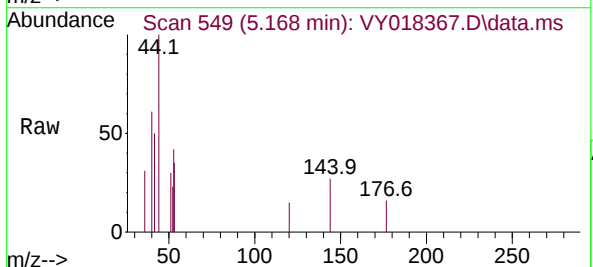
Instrument :  
MSVOA\_Y  
ClientSampleId :



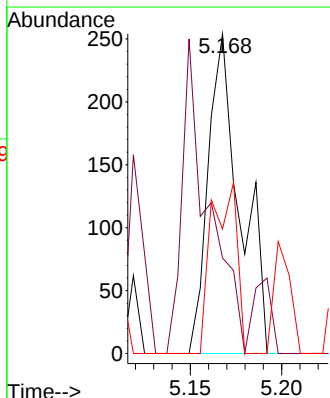
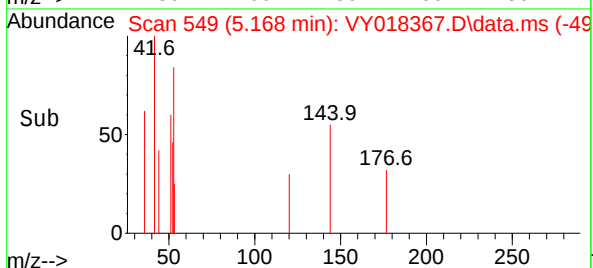
Tgt Ion: 56 Resp: 60  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.7 83.5#

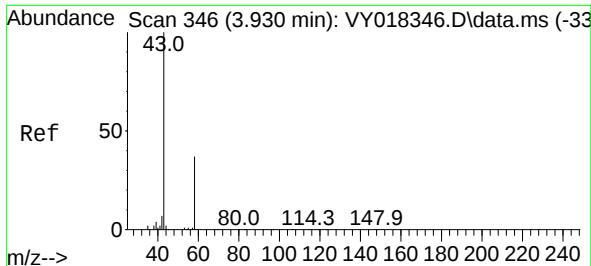


#15  
Acrylonitrile  
Concen: 1.140 ug/l  
RT: 5.168 min Scan# 549  
Delta R.T. 0.018 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56



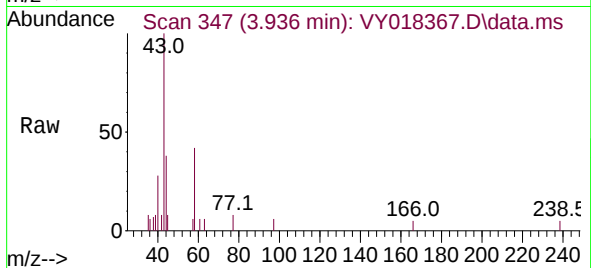
Tgt Ion: 53 Resp: 309  
Ion Ratio Lower Upper  
53 100  
52 0.0 64.7 97.1#  
51 42.4 28.4 42.6



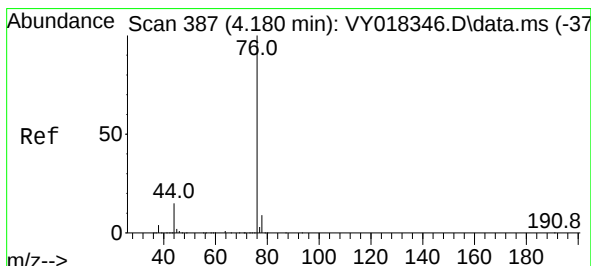
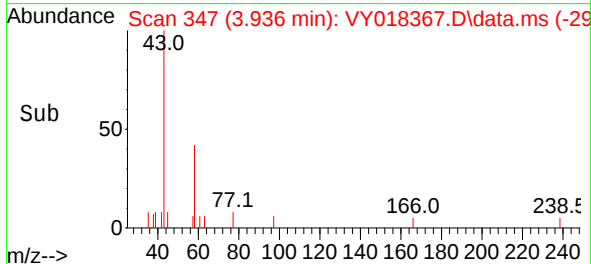
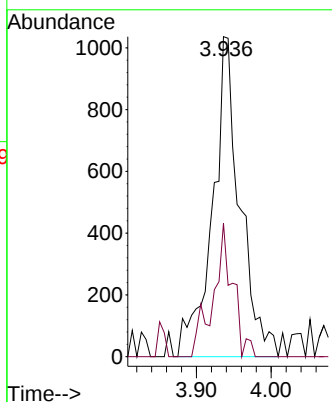


#16  
Acetone  
Concen: 12.062 ug/l  
RT: 3.936 min Scan# 346  
Delta R.T. 0.006 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

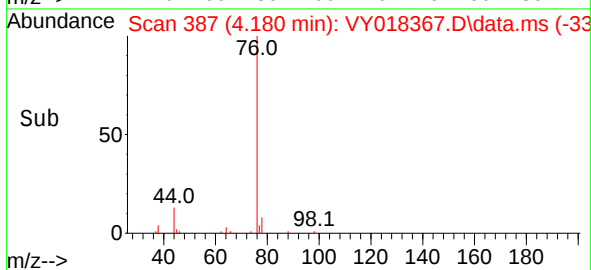
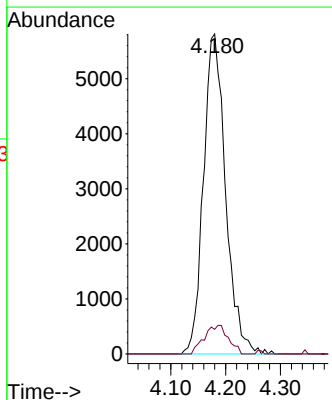
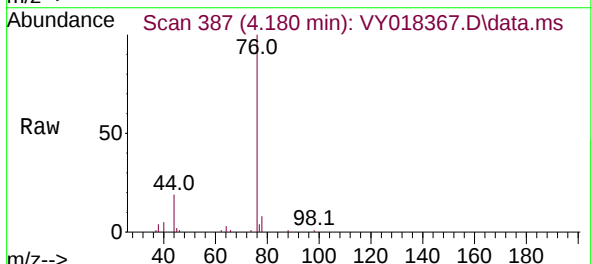


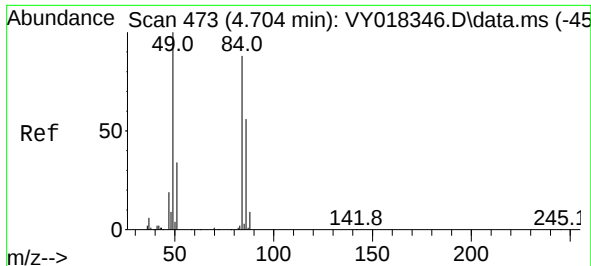
Tgt Ion: 43 Resp: 2649  
Ion Ratio Lower Upper  
43 100  
58 41.7 31.7 47.5



#17  
Carbon Disulfide  
Concen: 4.891 ug/l  
RT: 4.180 min Scan# 387  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Tgt Ion: 76 Resp: 16287  
Ion Ratio Lower Upper  
76 100  
78 7.7 6.8 10.2





#20

Methylene Chloride

Concen: 6.579 ug/l

RT: 4.692 min Scan# 41

Delta R.T. -0.012 min

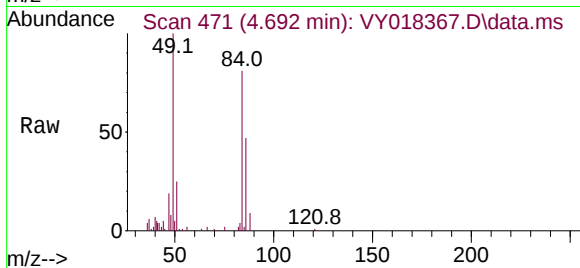
Lab File: VY018367.D

Acq: 24 May 2024 15:56

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion: 84 Resp: 13635

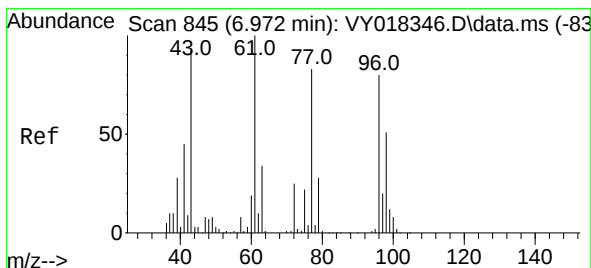
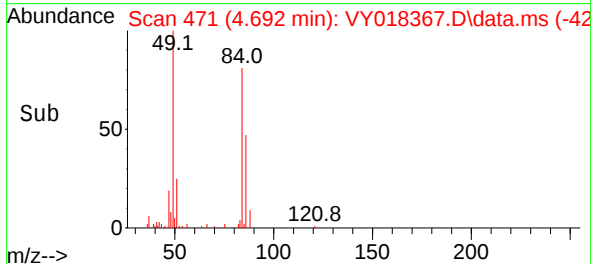
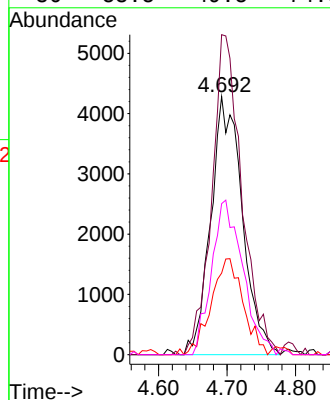
Ion Ratio Lower Upper

84 100

49 124.0 84.4 126.6

51 29.4 26.0 39.0

86 58.5 49.5 74.3



#25

2-Butanone

Concen: 3.086 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.018 min

Lab File: VY018367.D

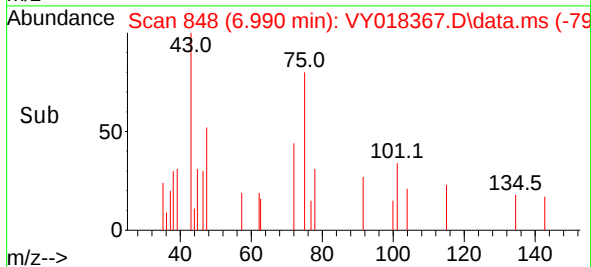
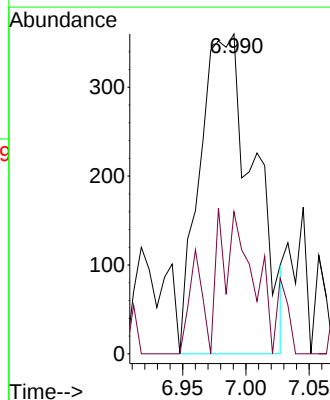
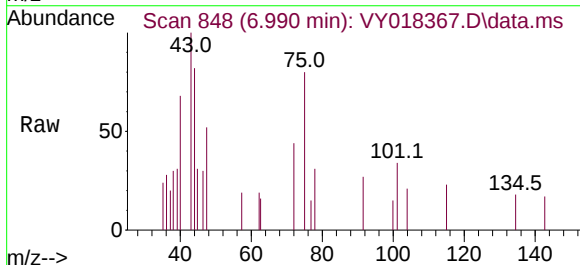
Acq: 24 May 2024 15:56

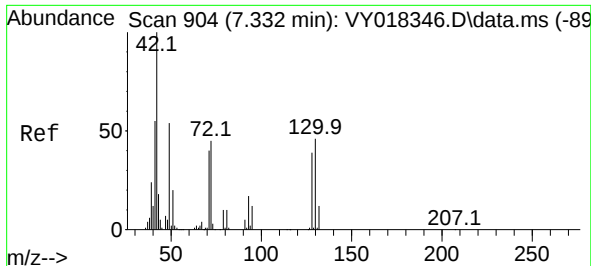
Tgt Ion: 43 Resp: 1074

Ion Ratio Lower Upper

43 100

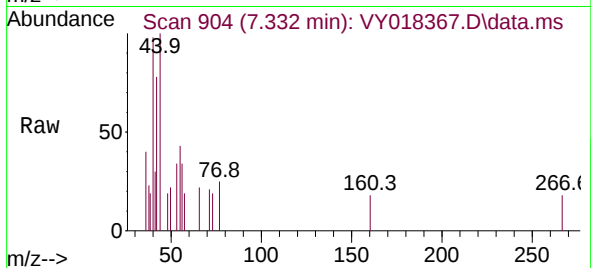
72 44.4 27.3 40.9#



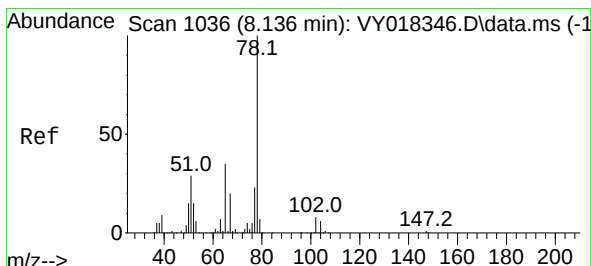
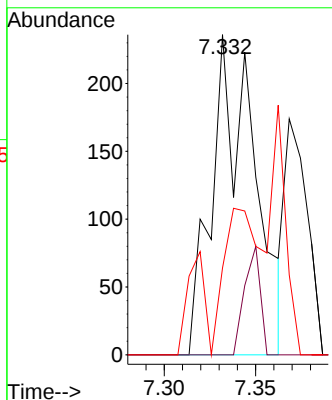
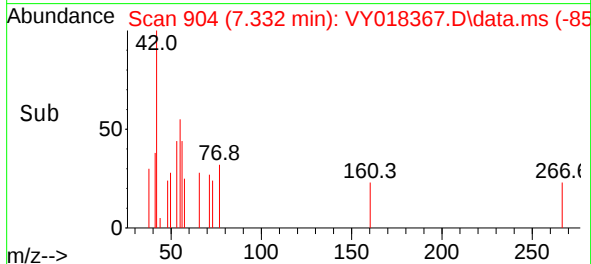


#29  
Tetrahydrofuran  
Concen: 1.659 ug/l  
RT: 7.332 min Scan# 904  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

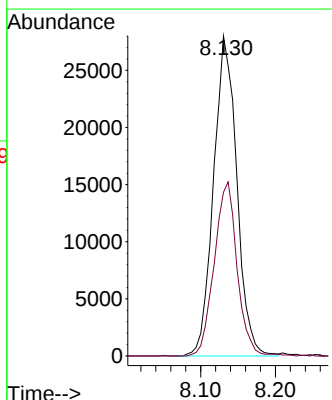
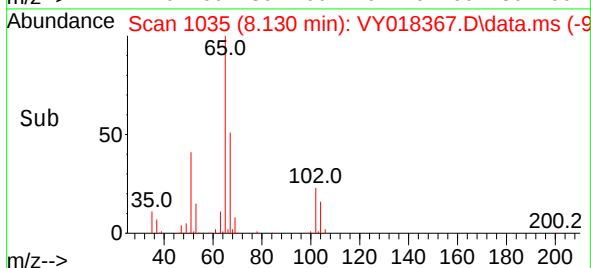
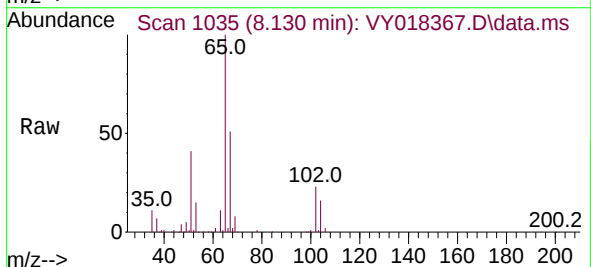


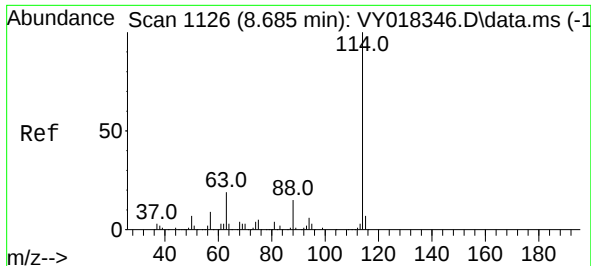
Tgt Ion: 42 Resp: 380  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.0 64.4#  
71 41.6 40.8 61.2



#33  
1,2-Dichloroethane-d4  
Concen: 56.730 ug/l  
RT: 8.130 min Scan# 1035  
Delta R.T. -0.006 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Tgt Ion: 65 Resp: 60574  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY018367.D

Acq: 24 May 2024 15:56

Instrument :

MSVOA\_Y

ClientSampleId :

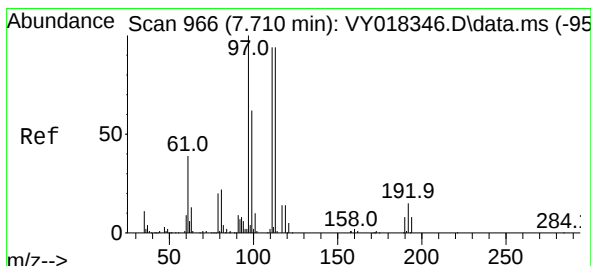
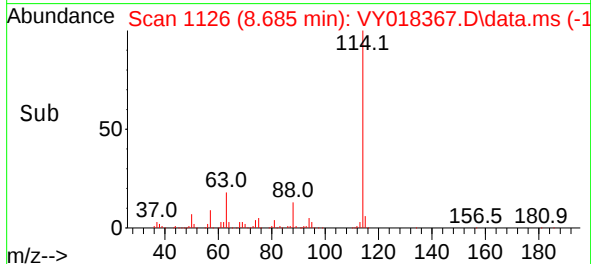
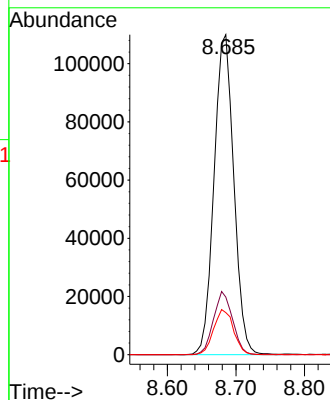
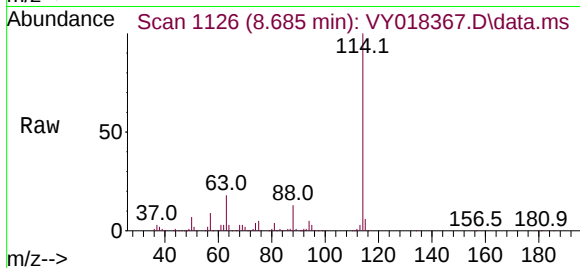
Tgt Ion:114 Resp: 219866

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.0

88 13.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.863 ug/l

RT: 7.704 min Scan# 965

Delta R.T. -0.006 min

Lab File: VY018367.D

Acq: 24 May 2024 15:56

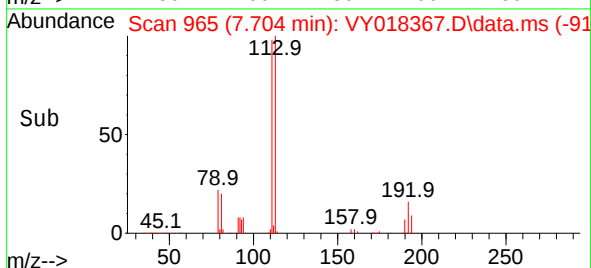
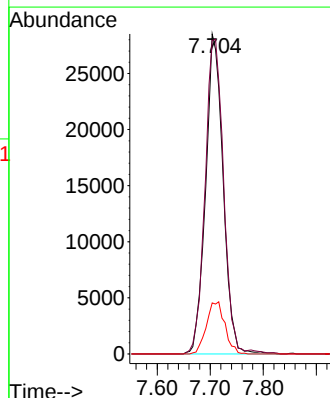
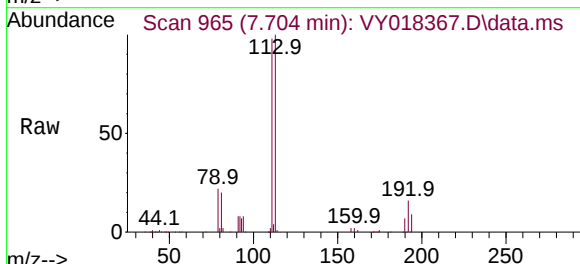
Tgt Ion:113 Resp: 65214

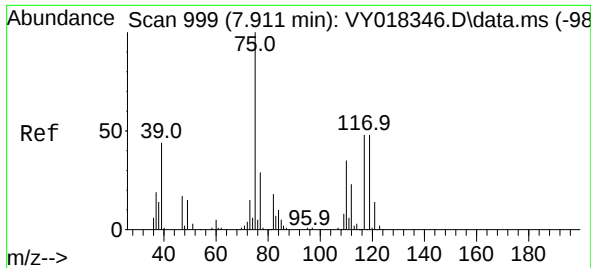
Ion Ratio Lower Upper

113 100

111 104.7 82.2 123.4

192 17.2 15.9 23.9

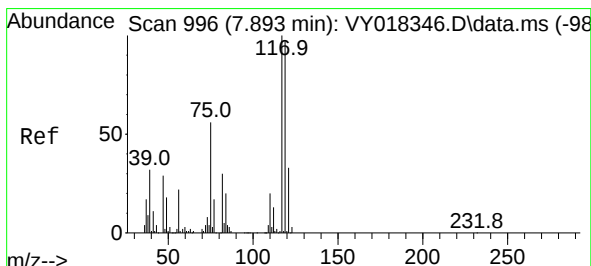
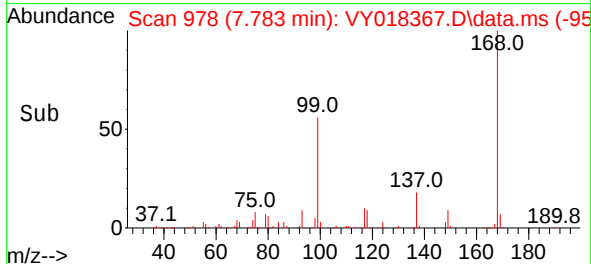
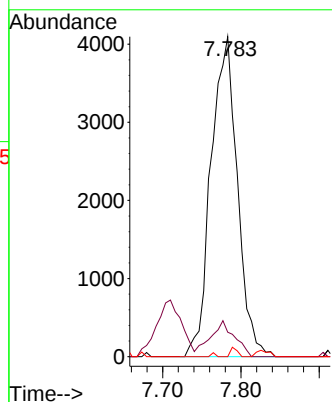
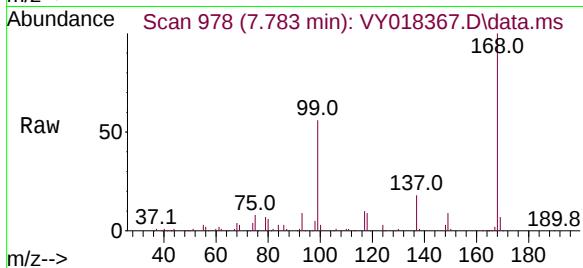




#36  
1,1-Dichloropropene  
Concen: 5.158 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

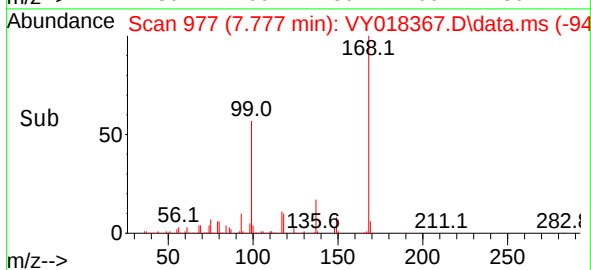
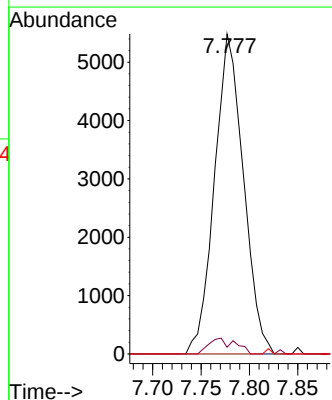
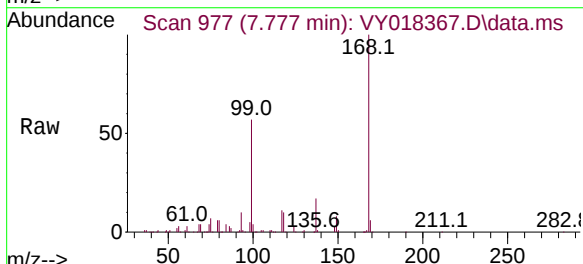
Instrument :  
MSVOA\_Y  
ClientSampleId :

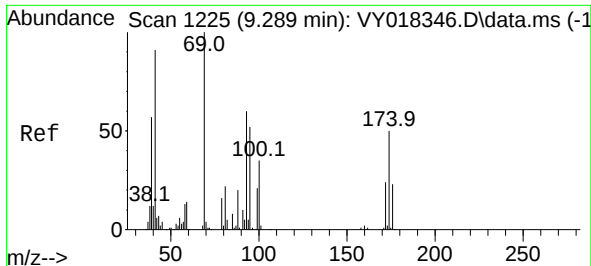
Tgt Ion: 75 Resp: 9591  
Ion Ratio Lower Upper  
75 100  
110 10.3 19.0 57.0#  
77 0.7 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 5.980 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.116 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

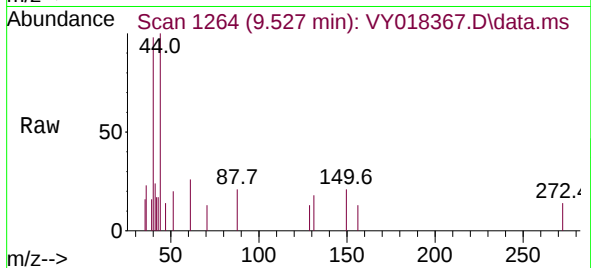
Tgt Ion: 117 Resp: 11389  
Ion Ratio Lower Upper  
117 100  
119 2.1 75.8 113.6#  
121 0.0 24.0 36.0#



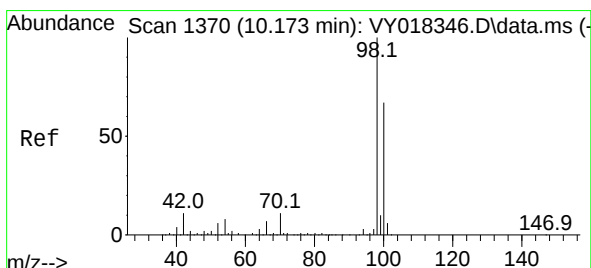
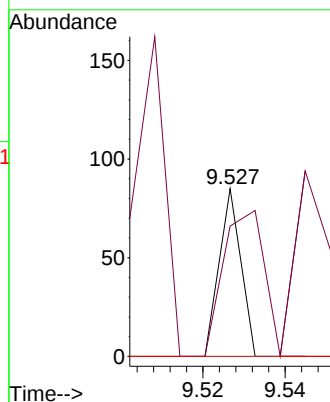
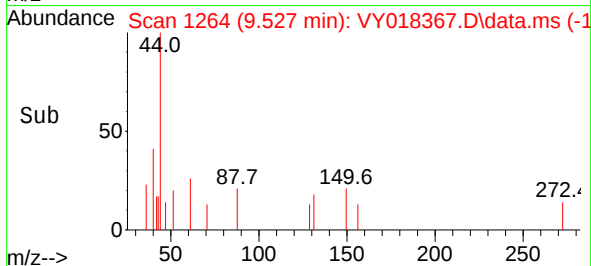


#49  
1,4-Dioxane  
Concen: 3.194 ug/l  
RT: 9.527 min Scan# 1225  
Delta R.T. 0.238 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

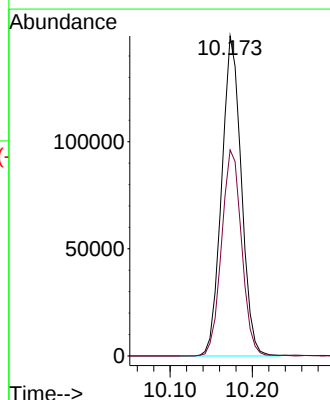
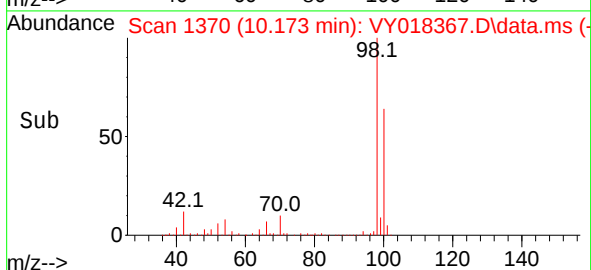
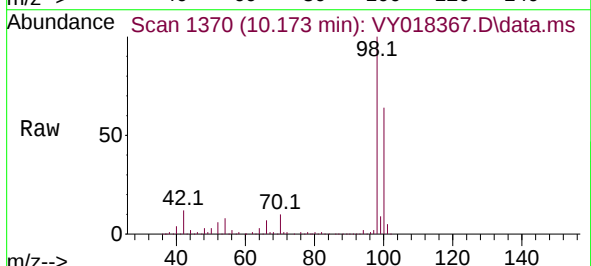


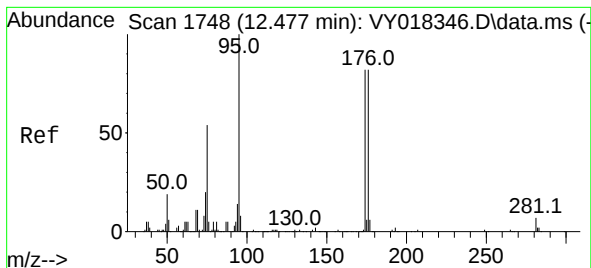
Tgt Ion: 88 Resp: 31  
Ion Ratio Lower Upper  
88 100  
43 164.5 0.0 0.0#  
58 0.0 49.3 73.9#



#50  
Toluene-d8  
Concen: 49.622 ug/l  
RT: 10.173 min Scan# 1370  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Tgt Ion: 98 Resp: 248054  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.0 78.0

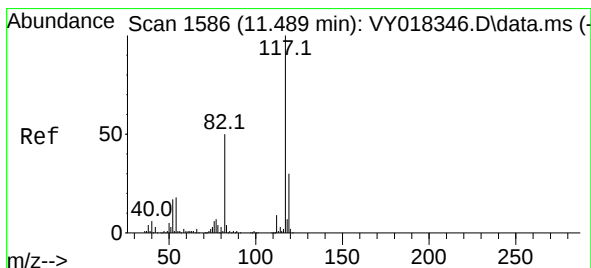
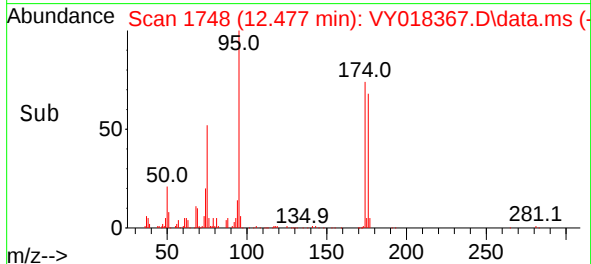
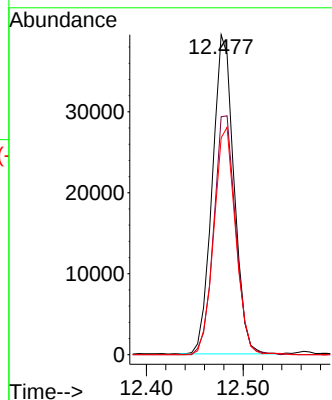
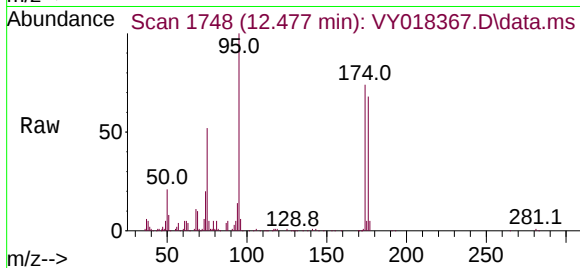




#62  
4-Bromofluorobenzene  
Concen: 39.635 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

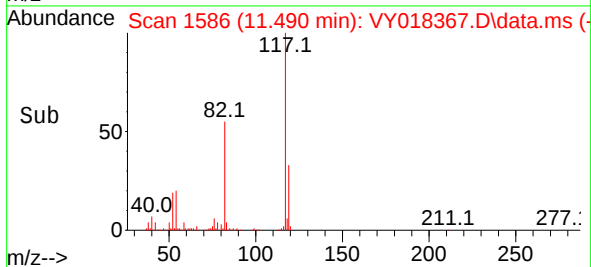
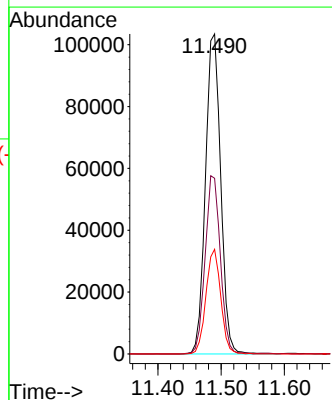
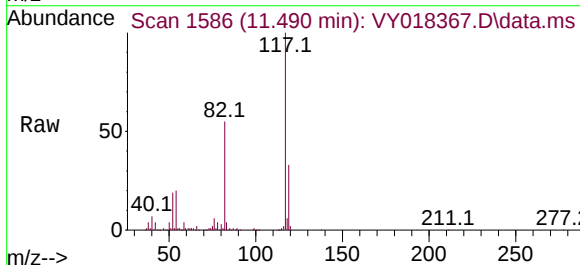
Instrument :  
MSVOA\_Y  
ClientSampleId :

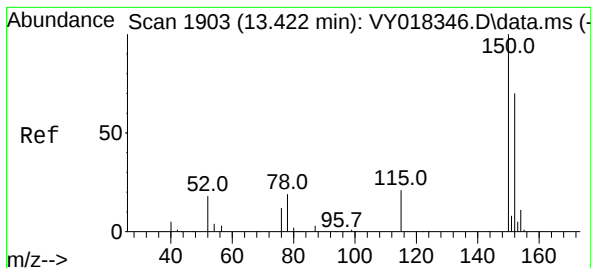
Tgt Ion: 95 Resp: 61221  
Ion Ratio Lower Upper  
95 100  
174 75.7 0.0 175.6  
176 71.7 0.0 171.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Tgt Ion: 117 Resp: 173918  
Ion Ratio Lower Upper  
117 100  
82 54.9 42.4 63.6  
119 32.7 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY018367.D

Acq: 24 May 2024 15:56

Instrument :

MSVOA\_Y

ClientSampleId :

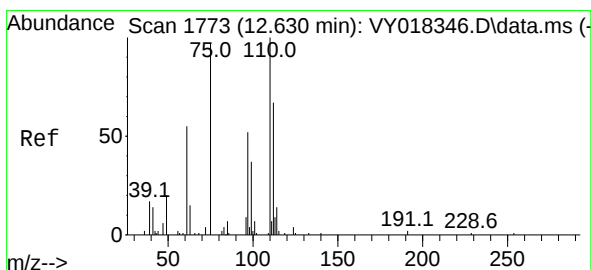
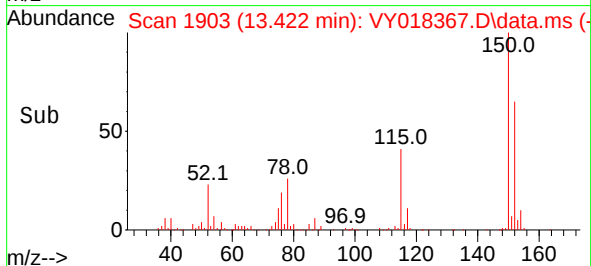
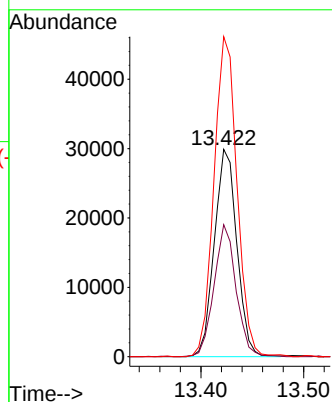
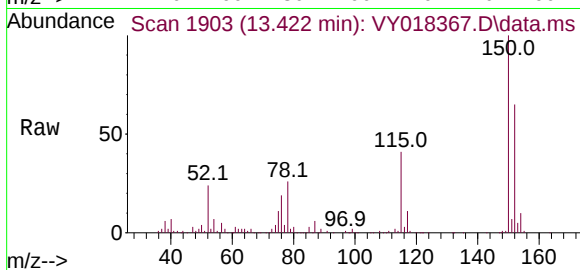
Tgt Ion:152 Resp: 45415

Ion Ratio Lower Upper

152 100

115 62.3 28.2 84.7

150 157.8 0.0 345.6



#76

1,2,3-Trichloropropane

Concen: 78.235 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY018367.D

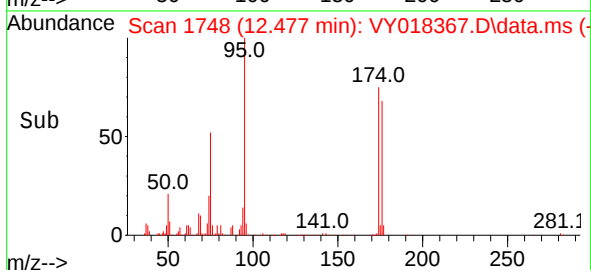
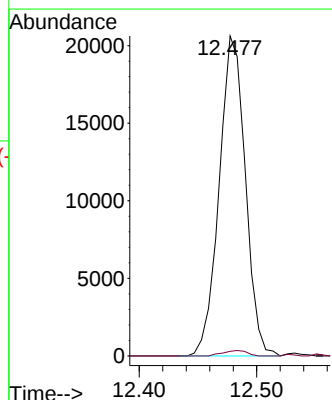
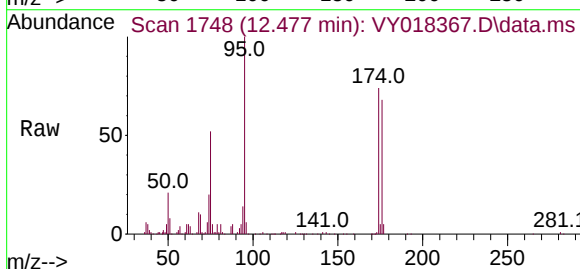
Acq: 24 May 2024 15:56

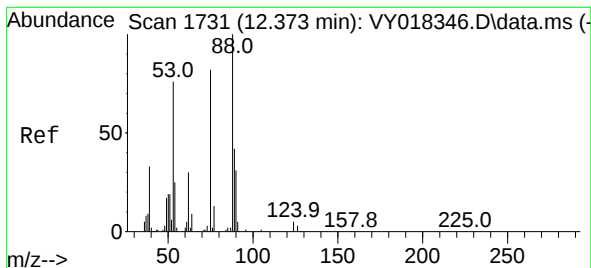
Tgt Ion: 75 Resp: 31934

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#

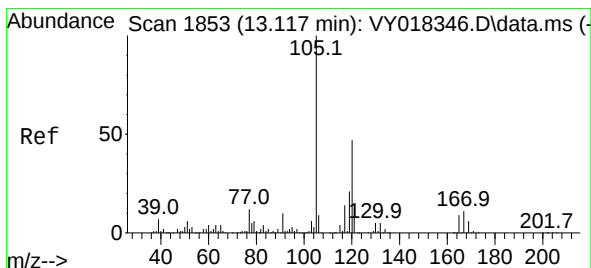
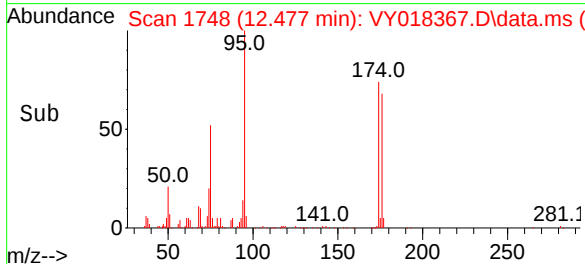
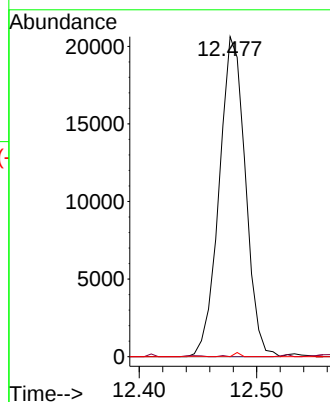
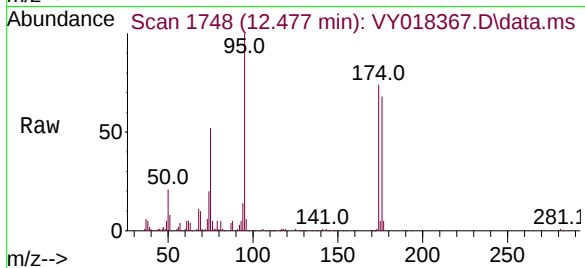




#81  
trans-1,4-Dichloro-2-butene  
Concen: 160.969 ug/l  
RT: 12.477 min Scan# 1731  
Delta R.T. 0.104 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

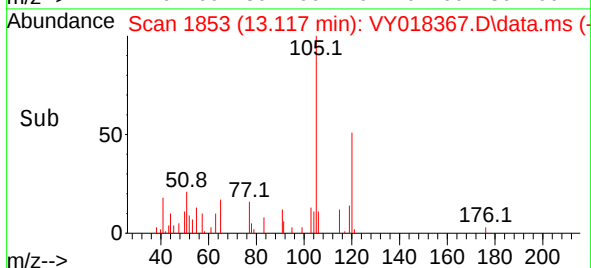
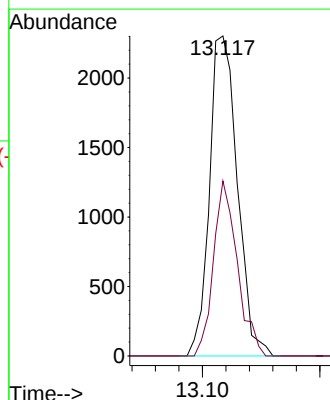
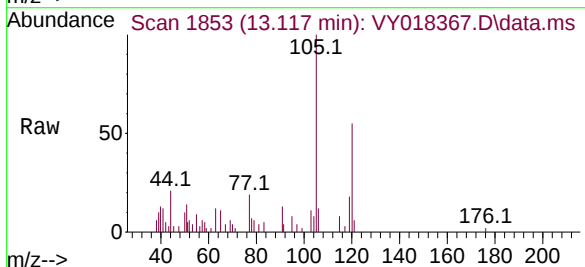
Instrument :  
MSVOA\_Y  
ClientSampleId :

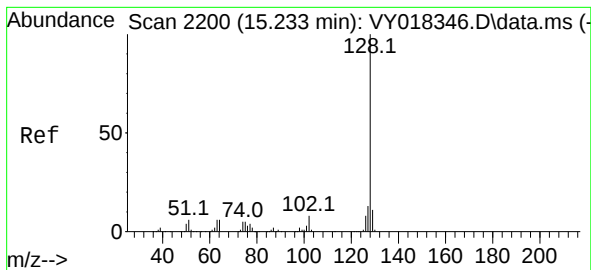
Tgt Ion: 75 Resp: 31934  
Ion Ratio Lower Upper  
75 100  
53 0.1 66.8 100.2#  
89 0.3 35.8 53.6#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.376 ug/l  
RT: 13.117 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VY018367.D  
Acq: 24 May 2024 15:56

Tgt Ion:105 Resp: 3796  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.2 69.6





#95

Naphthalene

Concen: 50.023 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

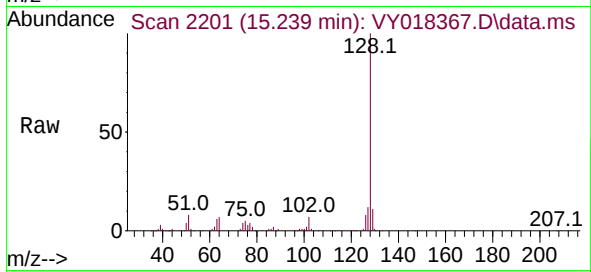
Lab File: VY018367.D

Acq: 24 May 2024 15:56

Instrument :

MSVOA\_Y

ClientSampleId :



Tgt Ion:128 Resp: 74846

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 11.3 8.6 13.0

