

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110121\  
 Data File : VY006551.D  
 Acq On : 01 Nov 2021 14:56  
 Operator : SY/MD  
 Sample : M4422-01  
 Misc : 5.10G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 02 03:29:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

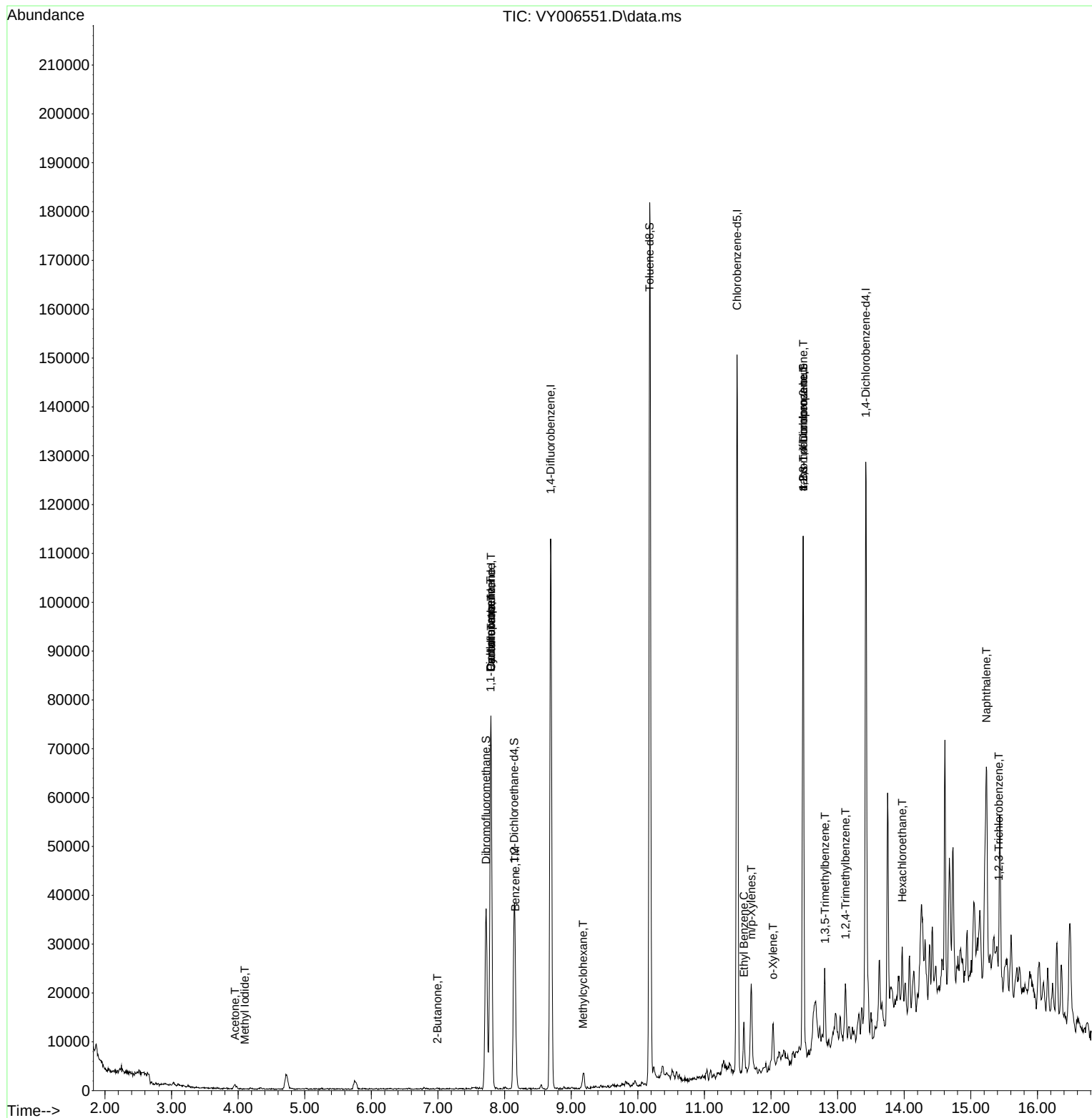
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 54388    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 87567    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 74158    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 26391    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 29032    | 43.378    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 86.760%  |
| 35) Dibromofluoromethane      | 7.722  | 113   | 24209    | 49.601    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 99.200%  |
| 50) Toluene-d8                | 10.179 | 98    | 112530   | 54.388    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 108.780% |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 30529    | 43.803    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 87.600%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.101  | 142   | 85       | 5.202     | ug/l # | 36       |
| 16) Acetone                   | 3.954  | 43    | 1680     | 8.717     | ug/l   | 95       |
| 20) Methylene Chloride        | 4.722  | 84    | 2216     | Below Cal | #      | 83       |
| 25) 2-Butanone                | 6.990  | 43    | 324      | 1.283     | ug/l # | 52       |
| 31) Cyclohexane               | 7.795  | 56    | 1853     | 1.710     | ug/l # | 24       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 4991     | 5.768     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 5544     | 5.808     | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.179  | 83    | 1393     | 1.323     | ug/l # | 85       |
| 40) Benzene                   | 8.161  | 78    | 4938     | 2.001     | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91    | 6463     | 2.352     | ug/l   | 89       |
| 68) m/p-Xylenes               | 11.703 | 106   | 4597     | 4.446     | ug/l   | 100      |
| 69) o-Xylene                  | 12.032 | 106   | 2236     | 2.267     | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 16538    | 60.812    | ug/l # | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105   | 2539     | 1.643     | ug/l   | 89       |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 16538    | 124.845   | ug/l # | 7        |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 6052     | 3.916     | ug/l   | 95       |
| 90) Hexachloroethane          | 13.971 | 117   | 550      | 1.790     | ug/l # | 6        |
| 95) Naphthalene               | 15.233 | 128   | 31647    | 31.987    | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180   | 516      | 1.166     | ug/l # | 39       |
| -----                         |        |       |          |           |        |          |

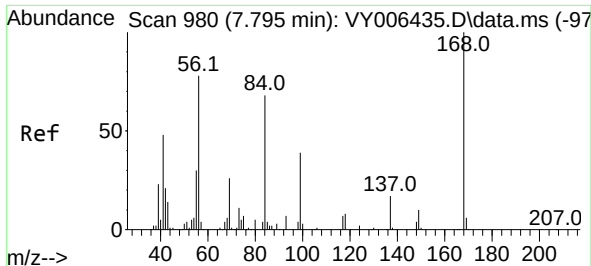
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 02 03:29:43 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 23 06:59:04 2021  
Response via : Initial Calibration

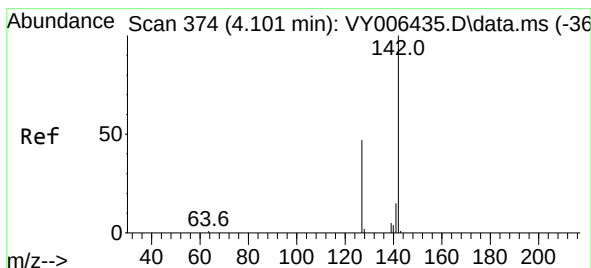
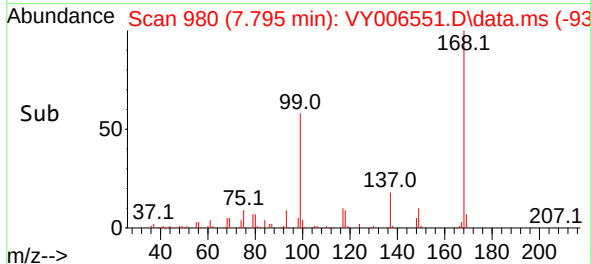
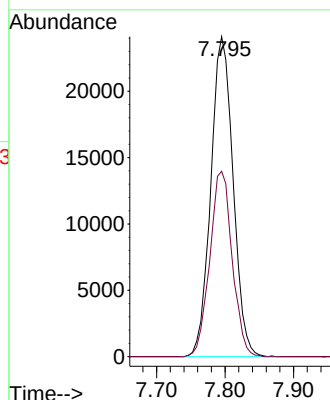
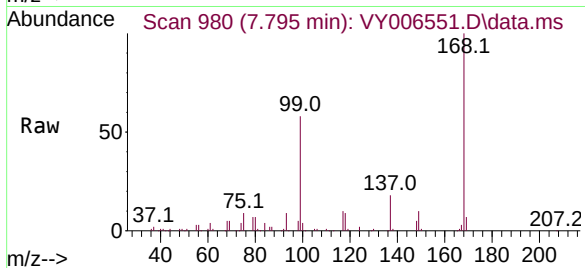




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

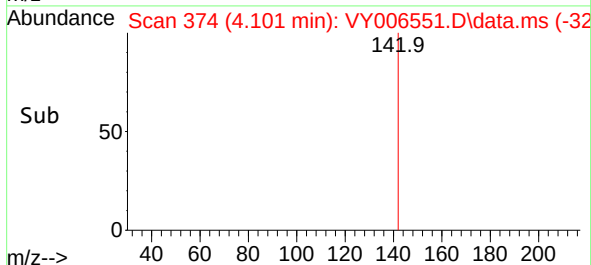
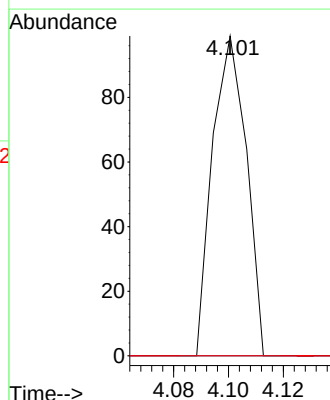
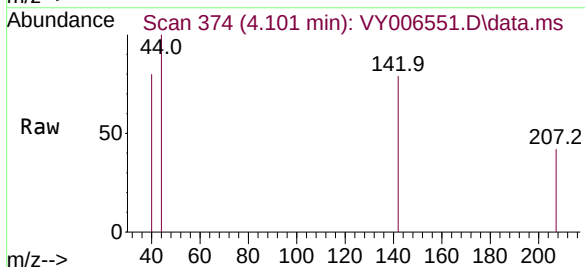
Instrument :  
MSVOA\_Y  
ClientSampleId :

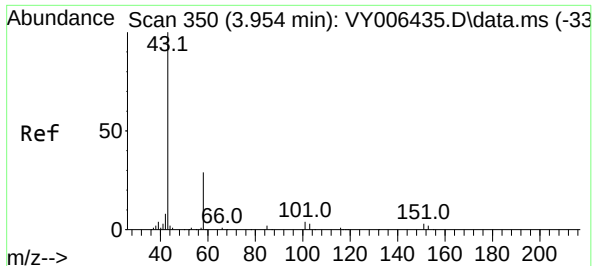
Tgt Ion:168 Resp: 54388  
Ion Ratio Lower Upper  
168 100  
99 58.0 44.8 67.2



#10  
Methyl Iodide  
Concen: 5.202 ug/l  
RT: 4.101 min Scan# 374  
Delta R.T. -0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

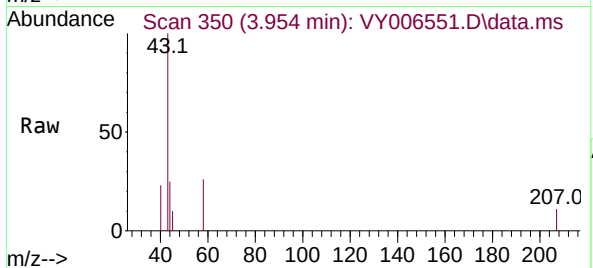
Tgt Ion:142 Resp: 85  
Ion Ratio Lower Upper  
142 100  
127 0.0 40.1 60.1#  
141 0.0 12.5 18.7#



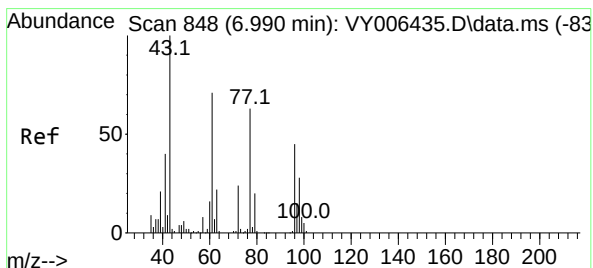
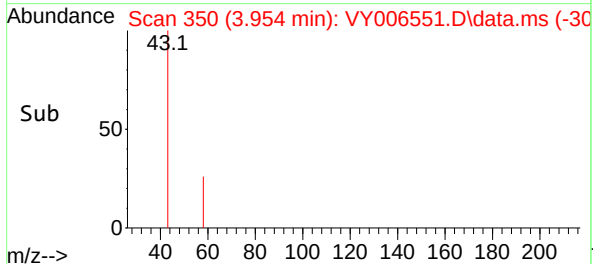
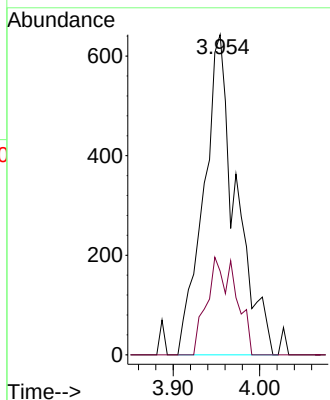


#16  
Acetone  
Concen: 8.717 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

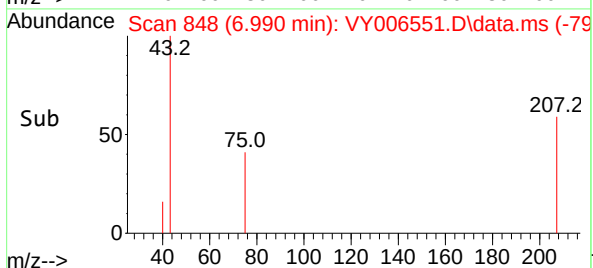
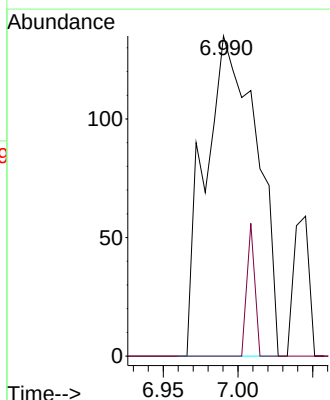
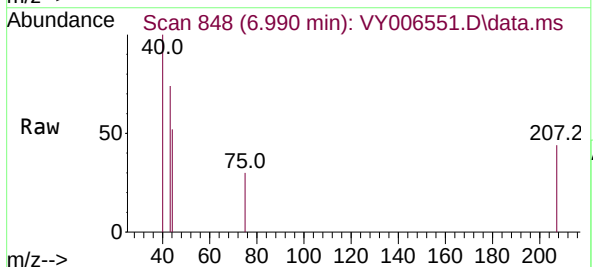


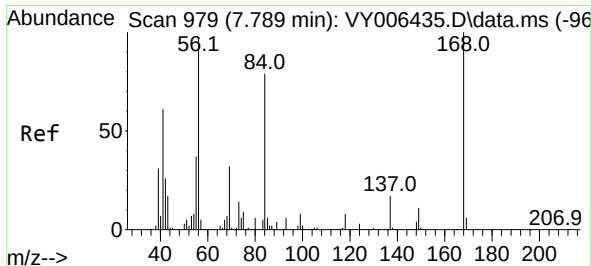
Tgt Ion: 43 Resp: 1680  
Ion Ratio Lower Upper  
43 100  
58 26.1 22.9 34.3



#25  
2-Butanone  
Concen: 1.283 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

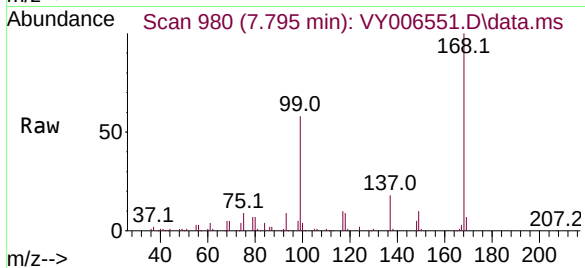
Tgt Ion: 43 Resp: 324  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.9 28.3#



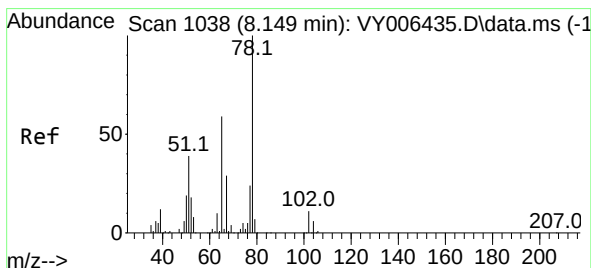
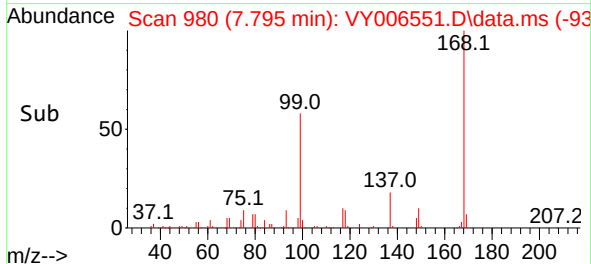
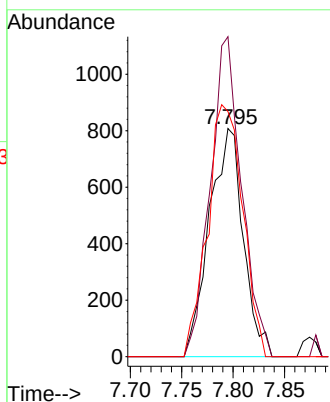


#31  
Cyclohexane  
Concen: 1.710 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

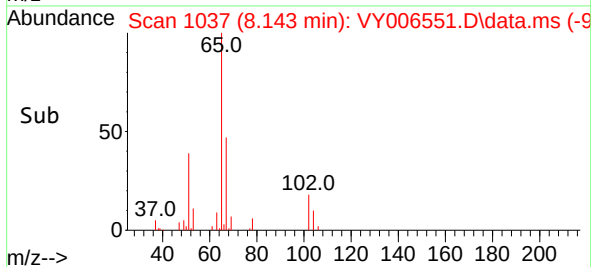
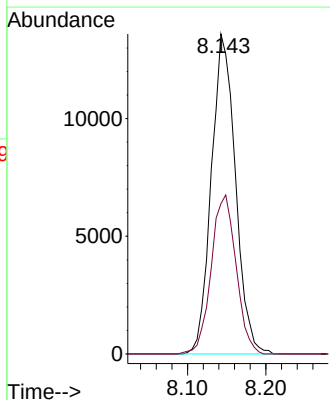
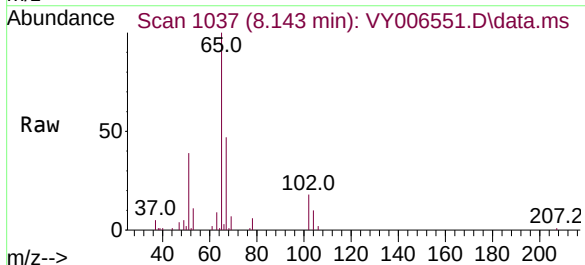


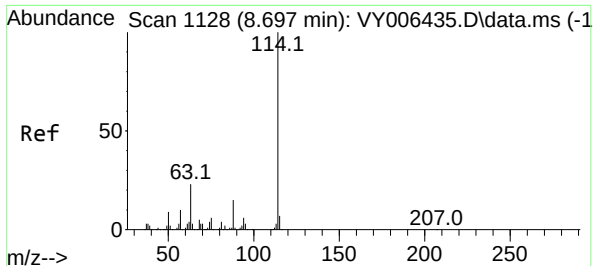
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 140.2 | 26.6  | 40.0# |
| 84      | 107.4 | 65.0  | 97.4# |



#33  
1,2-Dichloroethane-d4  
Concen: 43.378 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.006 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.3  | 0.0   | 98.2  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY006551.D

Acq: 01 Nov 2021 14:56

Instrument :

MSVOA\_Y

ClientSampleId :

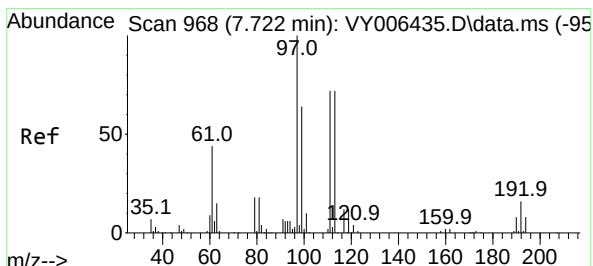
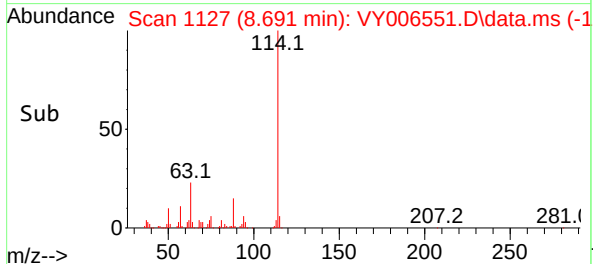
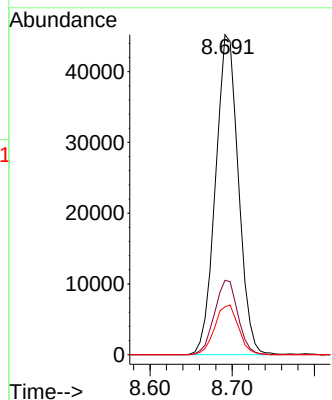
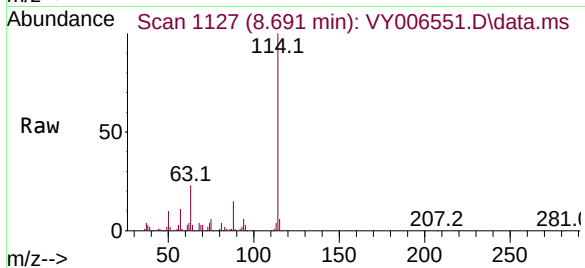
Tgt Ion:114 Resp: 87567

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.0

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.601 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY006551.D

Acq: 01 Nov 2021 14:56

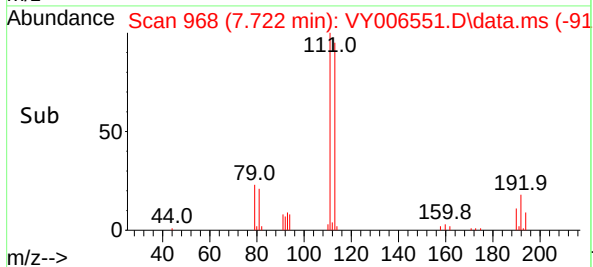
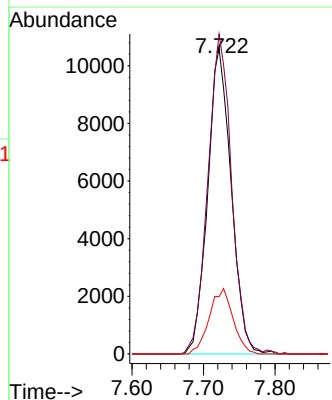
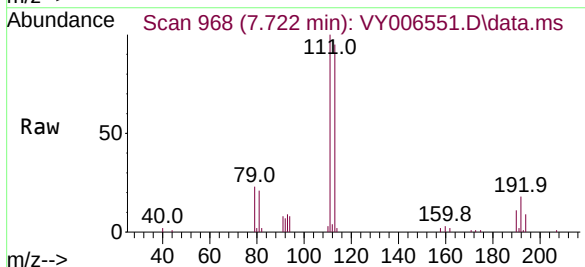
Tgt Ion:113 Resp: 24209

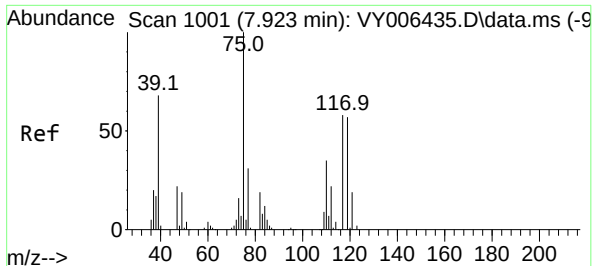
Ion Ratio Lower Upper

113 100

111 105.6 82.3 123.5

192 21.7 17.4 26.2





#36

1,1-Dichloropropene

Concen: 5.768 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY006551.D

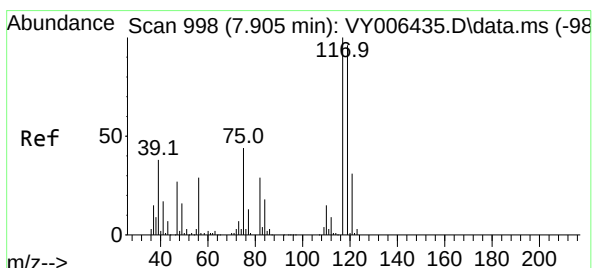
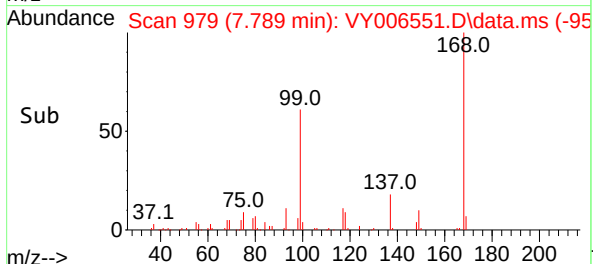
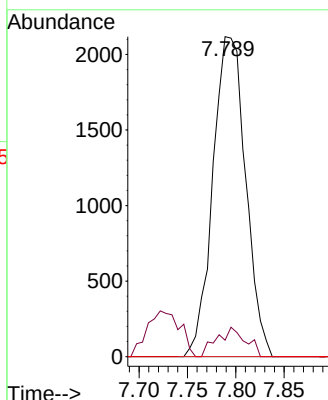
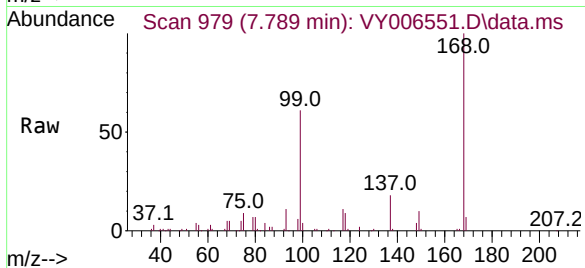
Acq: 01 Nov 2021 14:56

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 75 | Resp: | 4991       |
| Ion Ratio   | Lower | Upper      |
| 75          | 100   |            |
| 110         | 8.0   | 17.1 51.3# |
| 77          | 0.0   | 24.9 37.3# |



#38

Carbon Tetrachloride

Concen: 5.808 ug/l

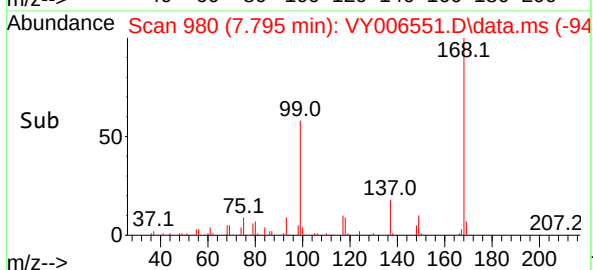
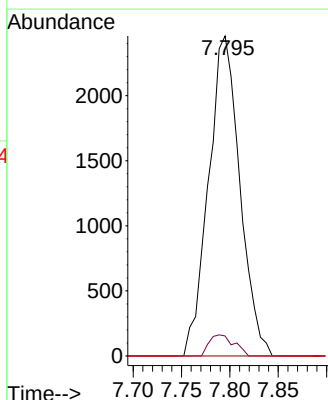
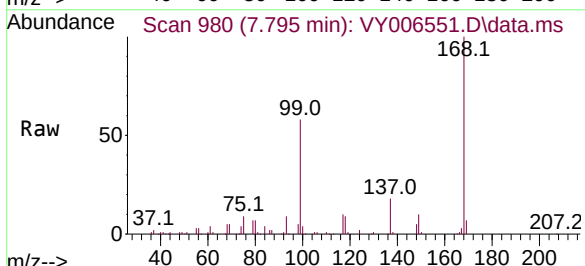
RT: 7.795 min Scan# 980

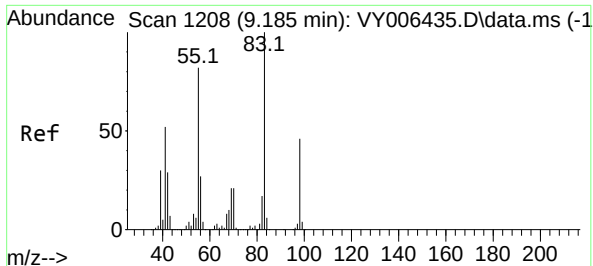
Delta R.T. -0.110 min

Lab File: VY006551.D

Acq: 01 Nov 2021 14:56

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 5544        |
| Ion Ratio    | Lower | Upper       |
| 117          | 100   |             |
| 119          | 6.3   | 76.6 115.0# |
| 121          | 0.0   | 24.7 37.1#  |





#39

Methylcyclohexane

Concen: 1.323 ug/l

RT: 9.179 min Scan# 1

Delta R.T. -0.006 min

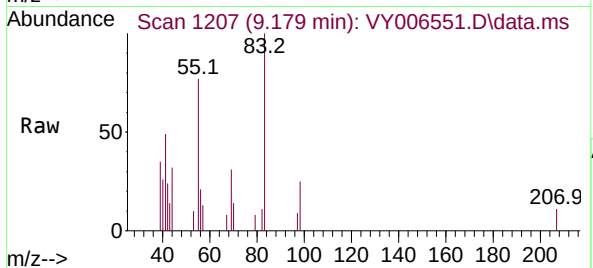
Lab File: VY006551.D

Acq: 01 Nov 2021 14:56

Instrument :

MSVOA\_Y

ClientSampleId :



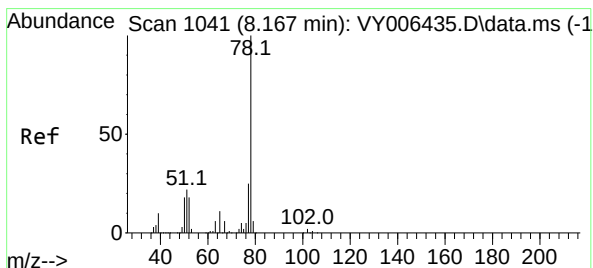
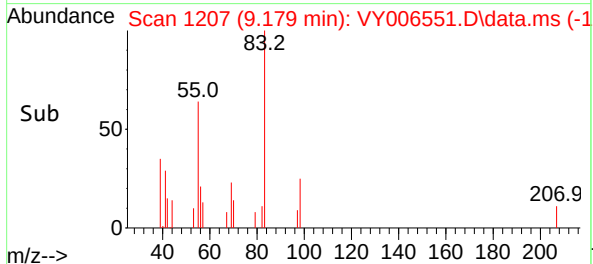
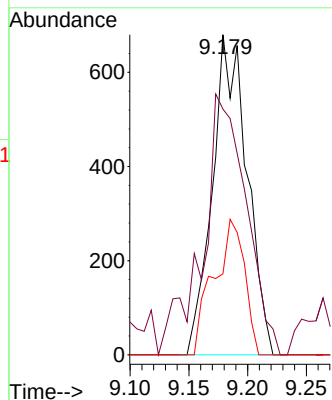
Tgt Ion: 83 Resp: 1393

Ion Ratio Lower Upper

83 100

55 76.8 65.3 97.9

98 25.3 37.0 55.4#



#40

Benzene

Concen: 2.001 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY006551.D

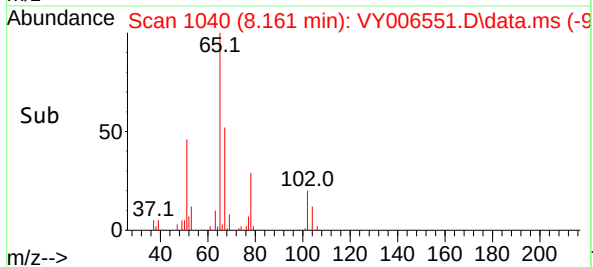
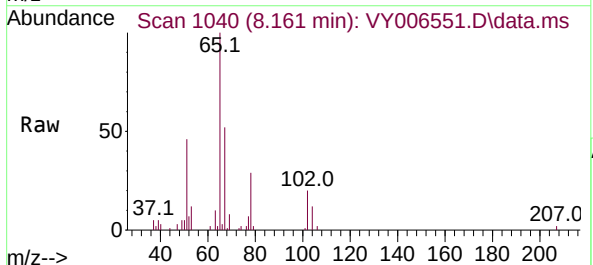
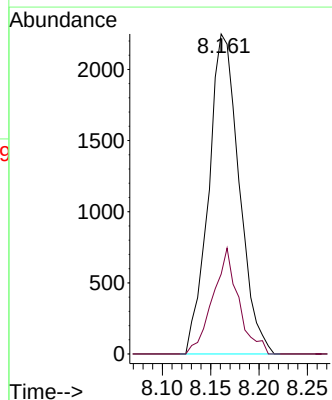
Acq: 01 Nov 2021 14:56

Tgt Ion: 78 Resp: 4938

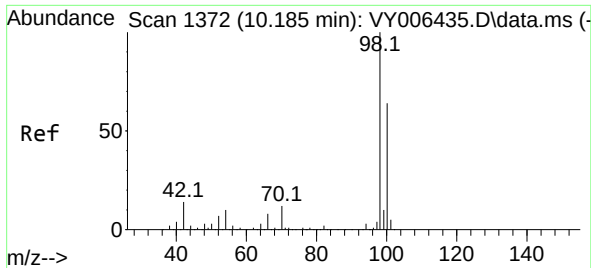
Ion Ratio Lower Upper

78 100

77 24.9 19.7 29.5



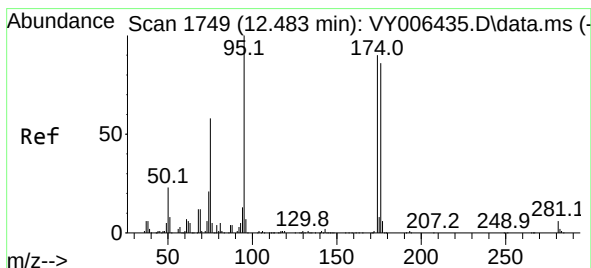
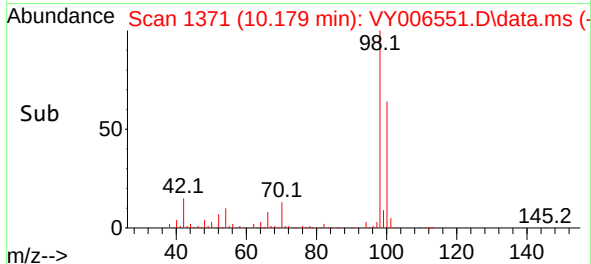
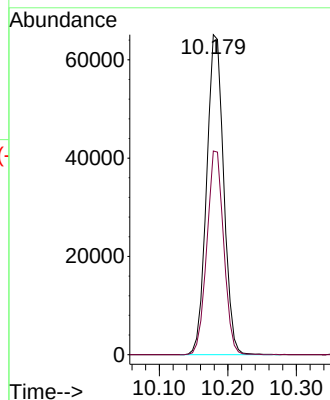
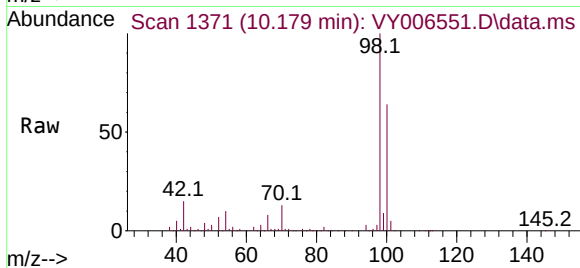




#50  
Toluene-d8  
Concen: 54.388 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

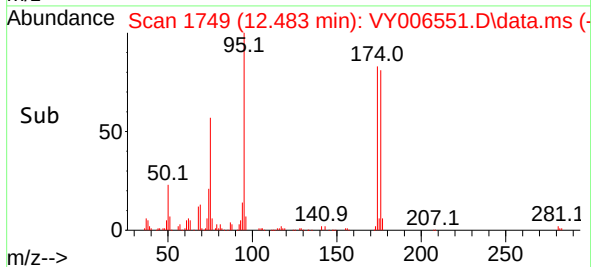
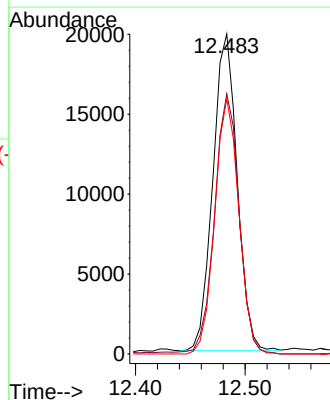
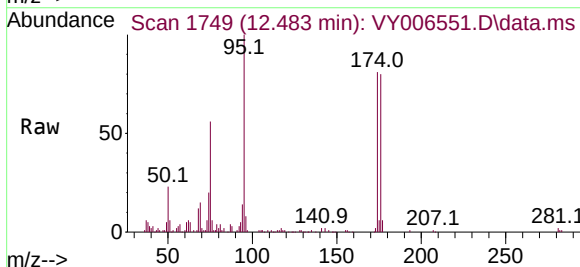
Instrument :  
MSVOA\_Y  
ClientSampleId :

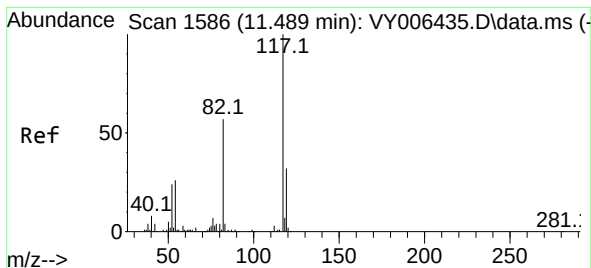
Tgt Ion: 98 Resp: 112530  
Ion Ratio Lower Upper  
98 100  
100 62.9 50.9 76.3



#62  
4-Bromofluorobenzene  
Concen: 43.803 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

Tgt Ion: 95 Resp: 30529  
Ion Ratio Lower Upper  
95 100  
174 83.4 0.0 177.0  
176 80.0 0.0 169.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY006551.D

Acq: 01 Nov 2021 14:56

Instrument :

MSVOA\_Y

ClientSampleId :

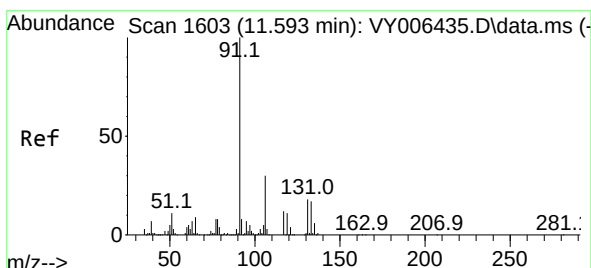
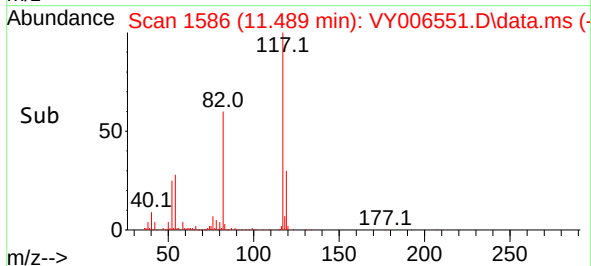
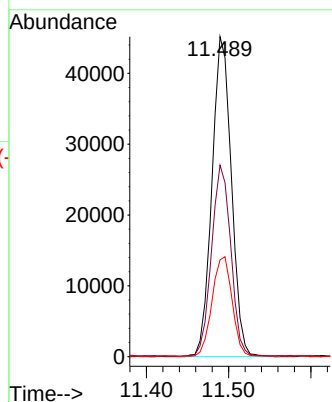
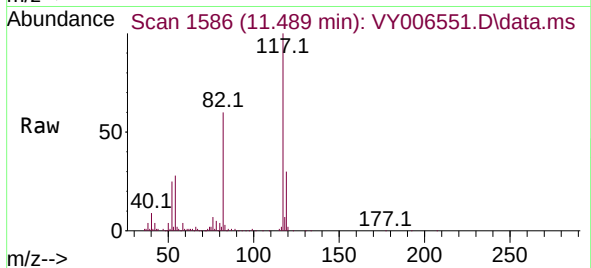
Tgt Ion:117 Resp: 74158

Ion Ratio Lower Upper

117 100

82 59.6 45.7 68.5

119 30.3 25.5 38.3



#67

Ethyl Benzene

Concen: 2.352 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY006551.D

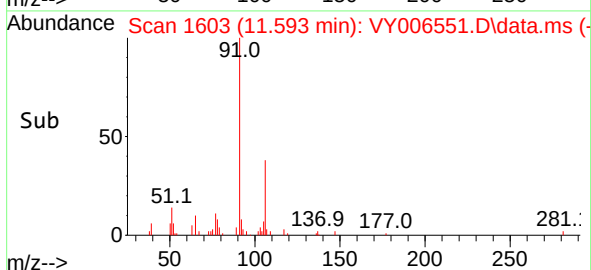
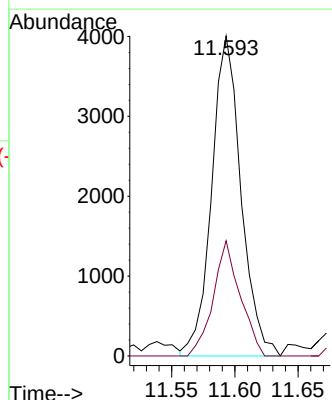
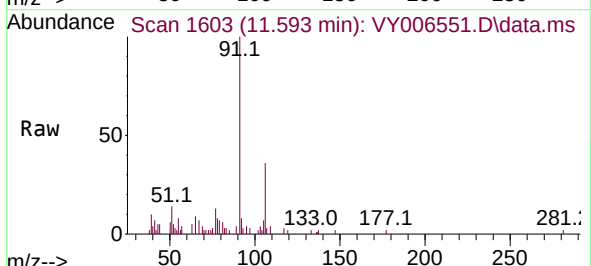
Acq: 01 Nov 2021 14:56

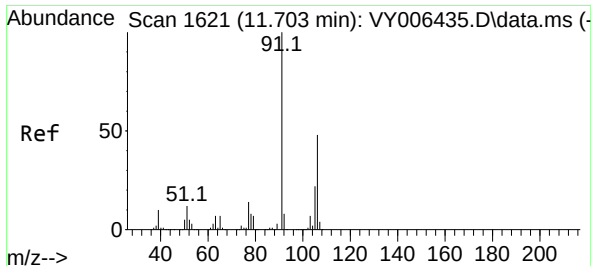
Tgt Ion: 91 Resp: 6463

Ion Ratio Lower Upper

91 100

106 36.0 24.2 36.4

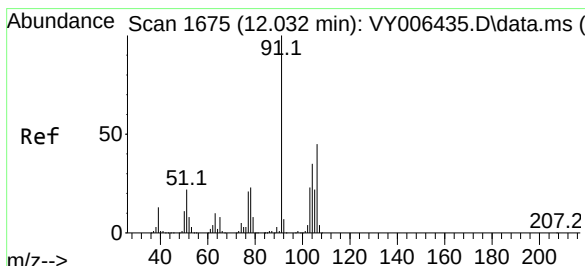
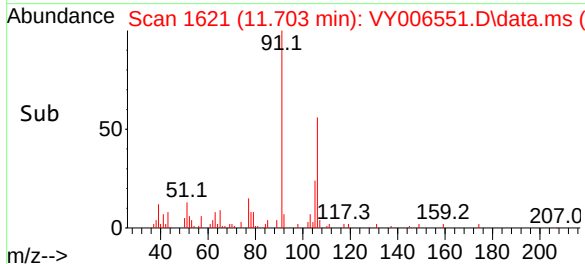
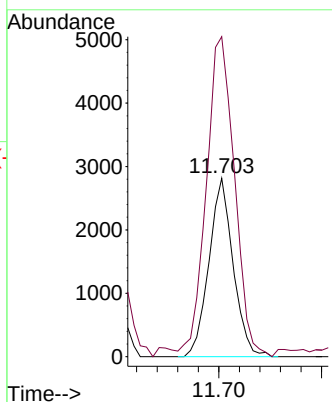
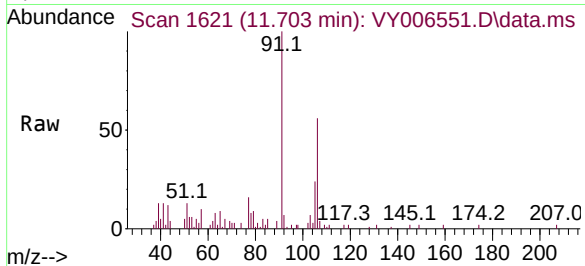




#68  
m/p-Xylenes  
Concen: 4.446 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

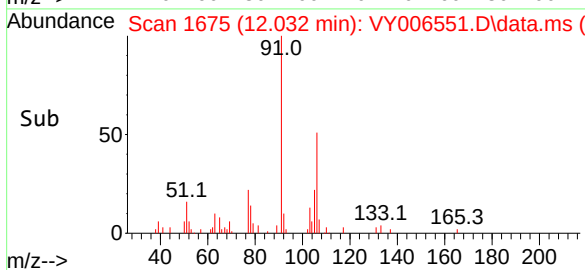
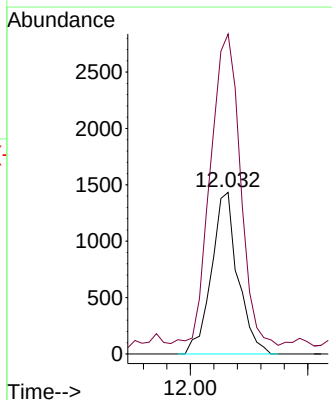
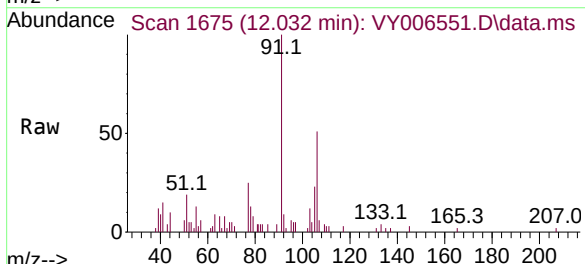
Instrument :  
MSVOA\_Y  
ClientSampleId :

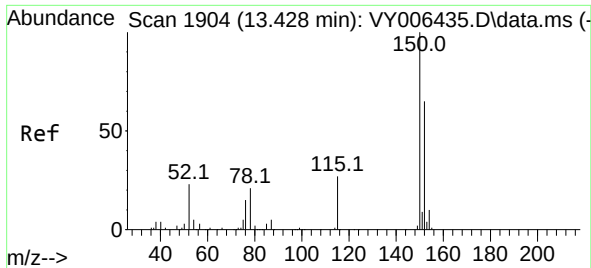
Tgt Ion:106 Resp: 4597  
Ion Ratio Lower Upper  
106 100  
91 209.2 167.5 251.3



#69  
o-Xylene  
Concen: 2.267 ug/l  
RT: 12.032 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

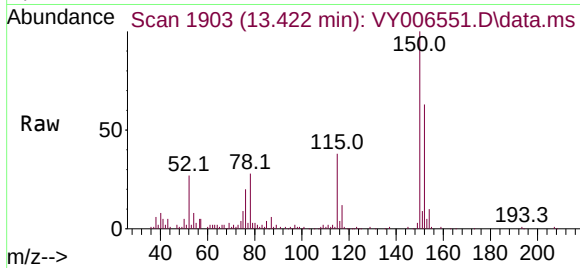
Tgt Ion:106 Resp: 2236  
Ion Ratio Lower Upper  
106 100  
91 218.7 110.3 330.9



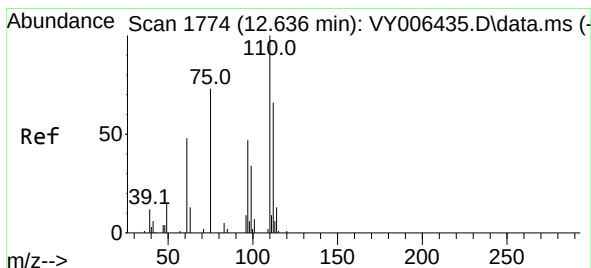
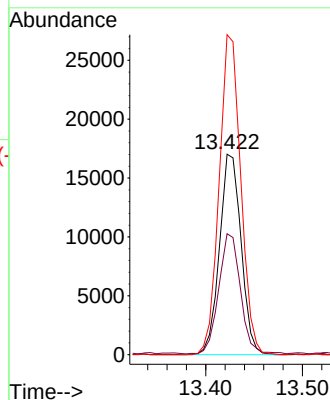
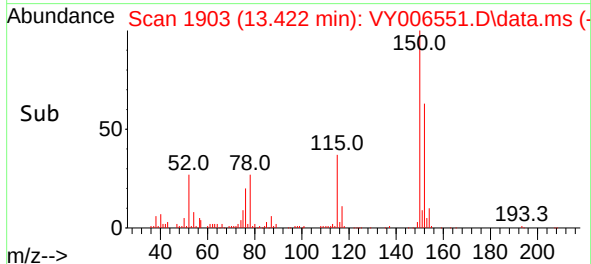


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1904  
 Delta R.T. -0.006 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

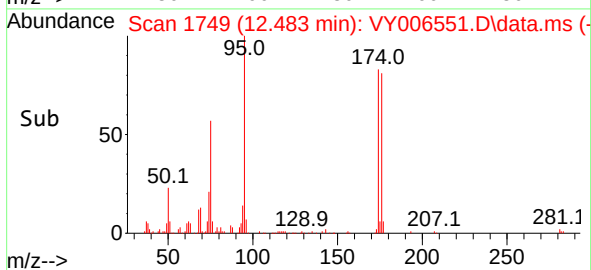
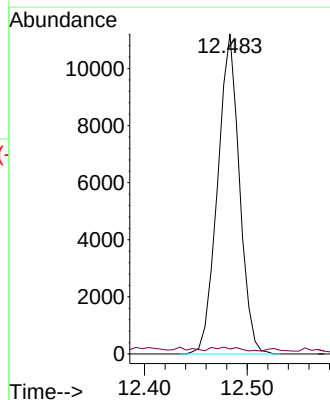
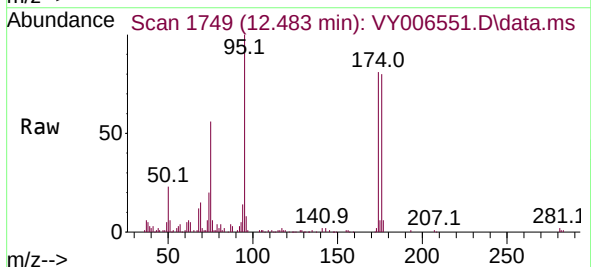


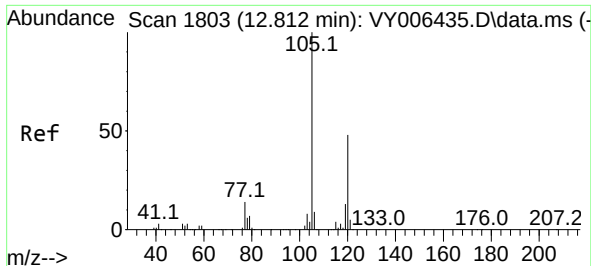
Tgt Ion:152 Resp: 26391  
 Ion Ratio Lower Upper  
 152 100  
 115 60.2 28.5 85.5  
 150 159.3 0.0 348.2



#76  
 1,2,3-Trichloropropane  
 Concen: 60.812 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.152 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

Tgt Ion: 75 Resp: 16538  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#

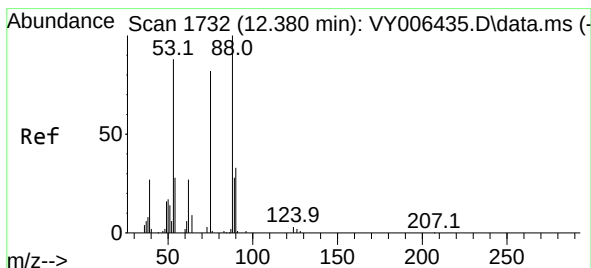
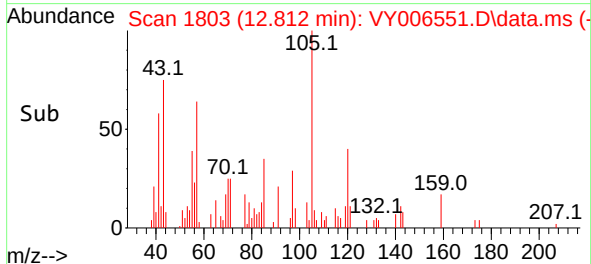
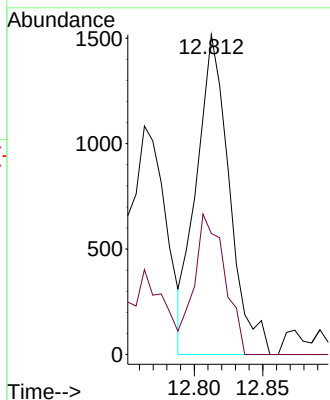
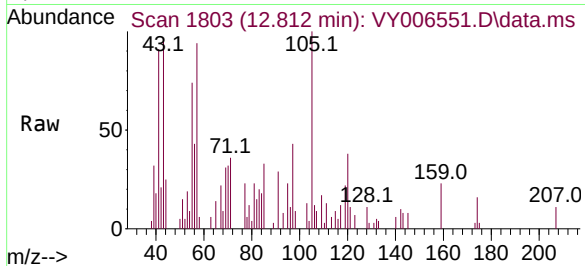




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.643 ug/l  
 RT: 12.812 min Scan# 1749  
 Delta R.T. 0.000 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

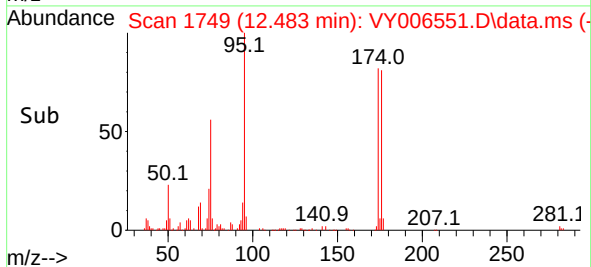
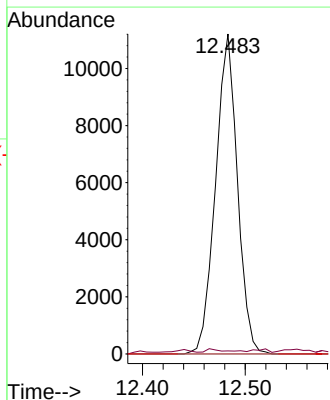
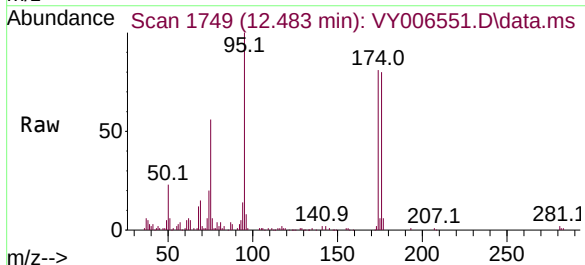
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

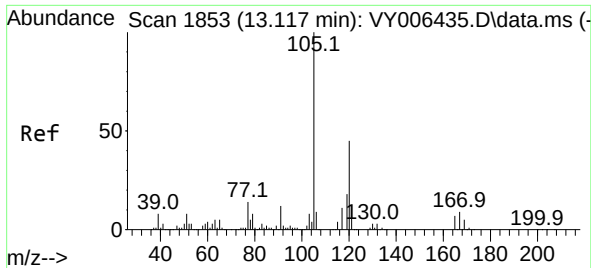
Tgt Ion:105 Resp: 2539  
 Ion Ratio Lower Upper  
 105 100  
 120 40.7 24.1 72.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 124.845 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. 0.104 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

Tgt Ion: 75 Resp: 16538  
 Ion Ratio Lower Upper  
 75 100  
 53 0.7 85.8 128.6#  
 89 0.0 39.3 58.9#

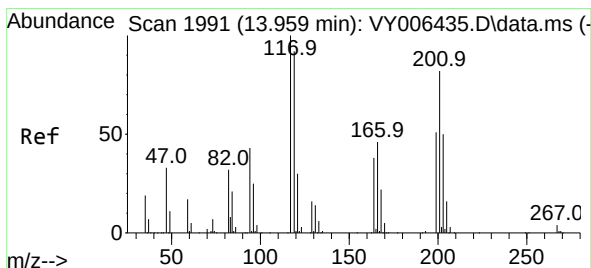
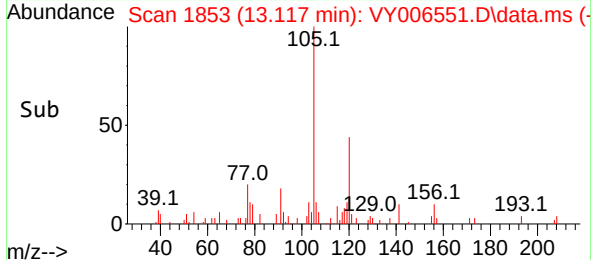
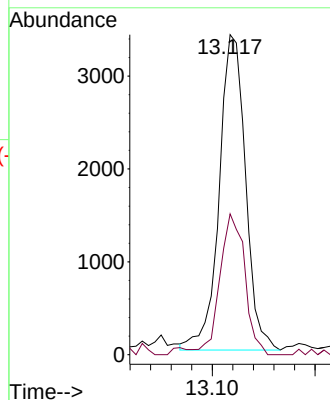
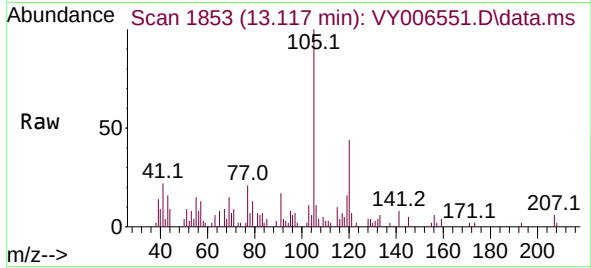




#84  
 1,2,4-Trimethylbenzene  
 Concen: 3.916 ug/l  
 RT: 13.117 min Scan# 1853  
 Delta R.T. 0.000 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

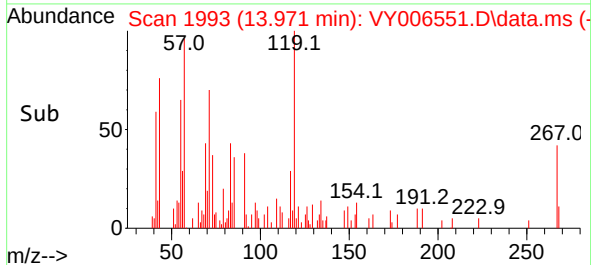
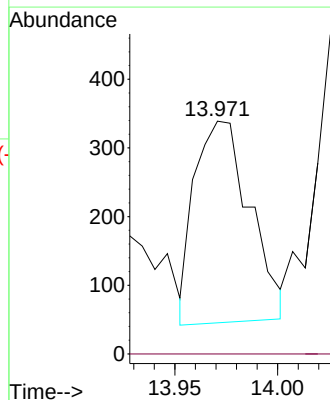
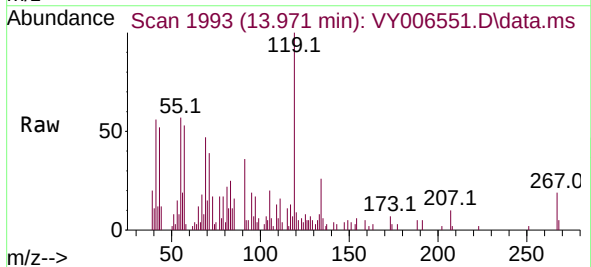
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

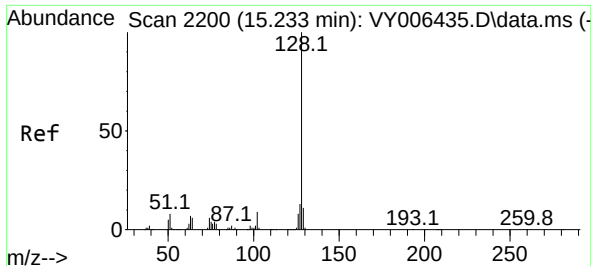
Tgt Ion:105 Resp: 6052  
 Ion Ratio Lower Upper  
 105 100  
 120 42.1 22.6 67.8



#90  
 Hexachloroethane  
 Concen: 1.790 ug/l  
 RT: 13.971 min Scan# 1993  
 Delta R.T. 0.012 min  
 Lab File: VY006551.D  
 Acq: 01 Nov 2021 14:56

Tgt Ion:117 Resp: 550  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 43.4 130.1#

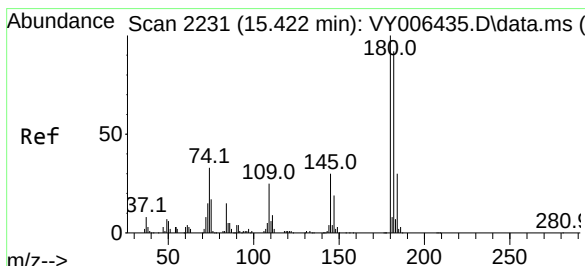
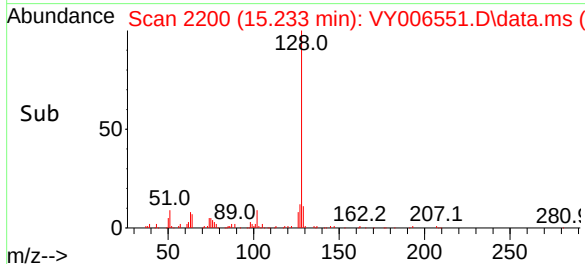
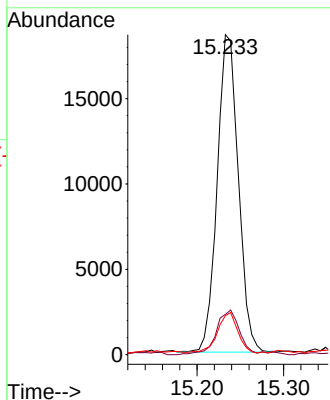
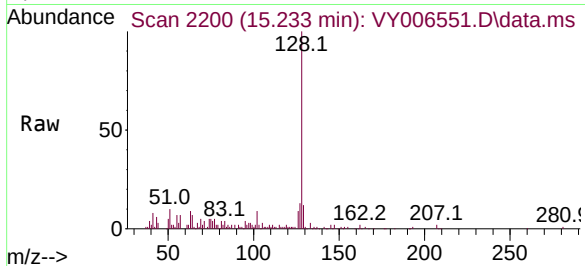




#95  
Naphthalene  
Concen: 31.987 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion:128 Resp: 31647  
Ion Ratio Lower Upper  
128 100  
127 15.9 11.0 16.4  
129 12.3 8.9 13.3



#96  
1,2,3-Trichlorobenzene  
Concen: 1.166 ug/l  
RT: 15.422 min Scan# 2231  
Delta R.T. 0.000 min  
Lab File: VY006551.D  
Acq: 01 Nov 2021 14:56

Tgt Ion:180 Resp: 516  
Ion Ratio Lower Upper  
180 100  
182 92.2 47.8 143.4  
145 161.8 15.3 45.8#

