

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081821\  
 Data File : VY005736.D  
 Acq On : 18 Aug 2021 13:49  
 Operator : SY/MD  
 Sample : M3430-03  
 Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PE-3

Quant Time: Aug 19 05:17:10 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 03 04:52:05 2021  
 Response via : Initial Calibration

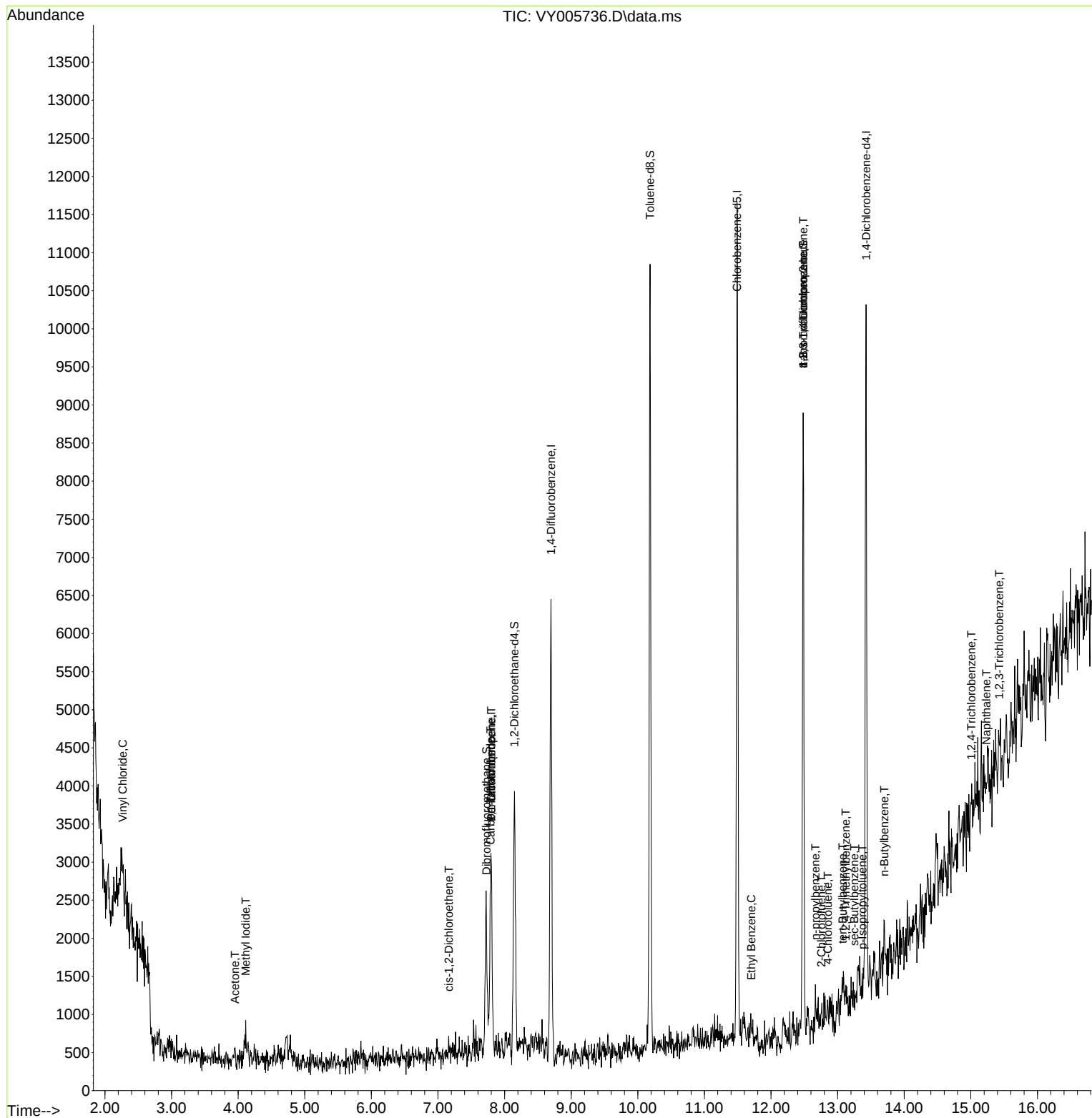
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.801  | 168   | 2539     | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 5156     | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 5836     | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 2423     | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 2663     | 103.615   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 207.220%# |          |
| 35) Dibromofluoromethane      | 7.728  | 113   | 1295     | 44.861    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 89.720%   |          |
| 50) Toluene-d8                | 10.185 | 98    | 6634     | 54.796    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 109.600%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 2378     | 59.315    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 118.620%  |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 4) Vinyl Chloride             | 2.266  | 62    | 405      | 13.574    | ug/l #      | 42       |
| 10) Methyl Iodide             | 4.113  | 142   | 525      | 19.447    | ug/l #      | 61       |
| 16) Acetone                   | 3.954  | 43    | 117      | 18.056    | ug/l #      | 45       |
| 20) Methylene Chloride        | 4.741  | 84    | 100      | Below Cal | #           | 4        |
| 27) cis-1,2-Dichloroethene    | 7.161  | 96    | 42       | 1.510     | ug/l #      | 1        |
| 36) 1,1-Dichloropropene       | 7.801  | 75    | 49       | 1.013     | ug/l #      | 41       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 156      | 2.968     | ug/l #      | 13       |
| 67) Ethyl Benzene             | 11.703 | 91    | 225      | 1.057     | ug/l #      | 42       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 1427     | 56.832    | ug/l #      | 100      |
| 78) n-propylbenzene           | 12.666 | 91    | 266      | 1.324     | ug/l #      | 51       |
| 79) 2-Chlorotoluene           | 12.758 | 91    | 133      | 1.179     | ug/l #      | 40       |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 1427     | 114.565   | ug/l #      | 11       |
| 82) 4-Chlorotoluene           | 12.855 | 91    | 171      | 1.465     | ug/l #      | 40       |
| 83) tert-Butylbenzene         | 13.075 | 119   | 146      | 1.159     | ug/l #      | 27       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105   | 198      | 1.430     | ug/l #      | 62       |
| 85) sec-Butylbenzene          | 13.251 | 105   | 183      | 1.007     | ug/l #      | 55       |
| 86) p-Isopropyltoluene        | 13.373 | 119   | 165      | 1.058     | ug/l #      | 50       |
| 89) n-Butylbenzene            | 13.703 | 91    | 196      | 1.387     | ug/l #      | 48       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180   | 89       | 1.809     | ug/l #      | 12       |
| 95) Naphthalene               | 15.233 | 128   | 198      | 2.042     | ug/l #      | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180   | 49       | 1.124     | ug/l #      | 12       |
| -----                         |        |       |          |           |             |          |

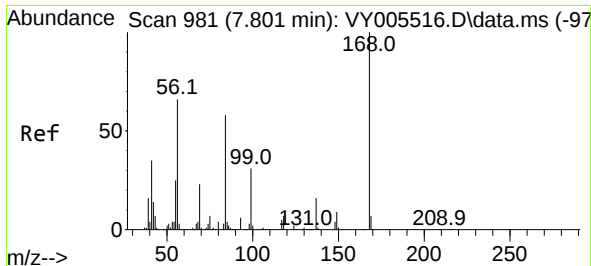
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081821\  
Data File : VY005736.D  
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Operator : SY/MD  
Sample : M3430-03  
Misc : 5.01G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PE-3

Quant Time: Aug 19 05:17:10 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080221S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 03 04:52:05 2021  
Response via : Initial Calibration

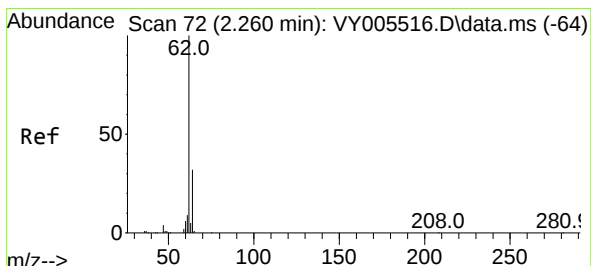
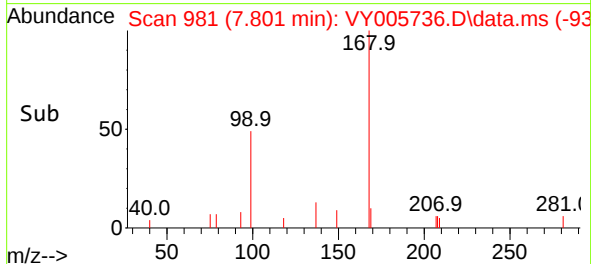
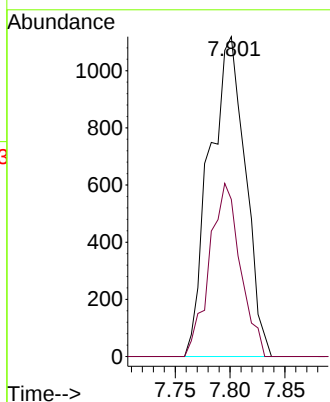
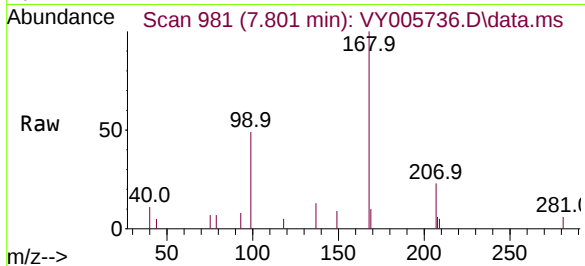




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

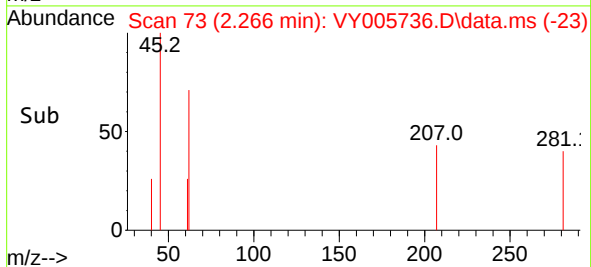
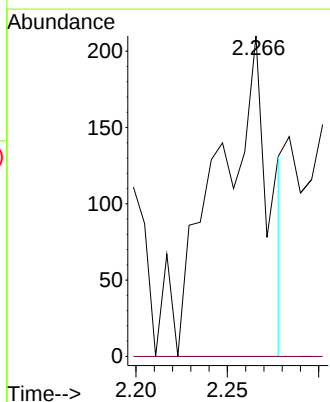
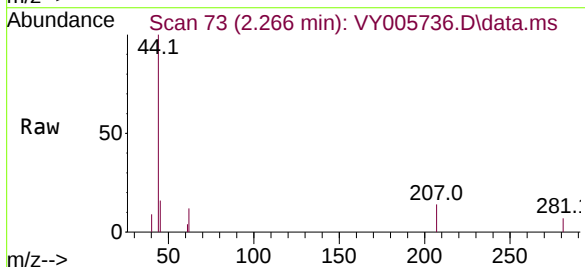
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

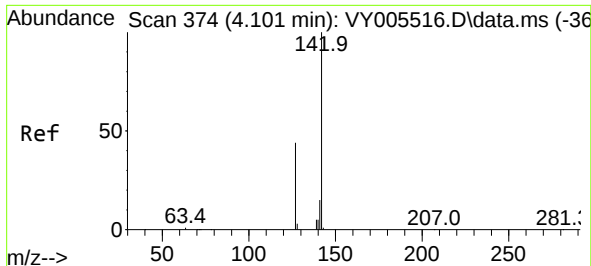
Tgt Ion:168 Resp: 2539  
Ion Ratio Lower Upper  
168 100  
99 49.2 38.9 58.3



#4  
Vinyl Chloride  
Concen: 13.574 ug/l  
RT: 2.266 min Scan# 73  
Delta R.T. 0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 62 Resp: 405  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.9 38.9#





#10

Methyl Iodide

Concen: 19.447 ug/l

RT: 4.113 min Scan# 376

Delta R.T. 0.012 min

Lab File: VY005736.D

Acq: 18 Aug 2021 13:49

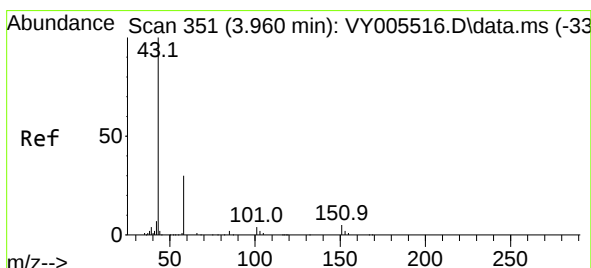
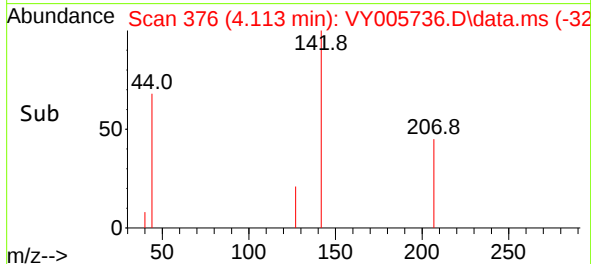
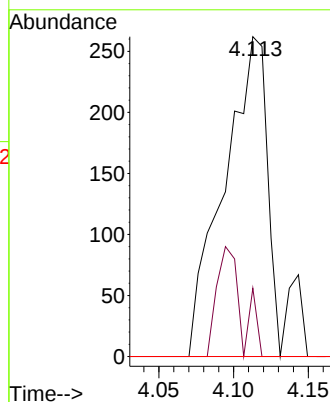
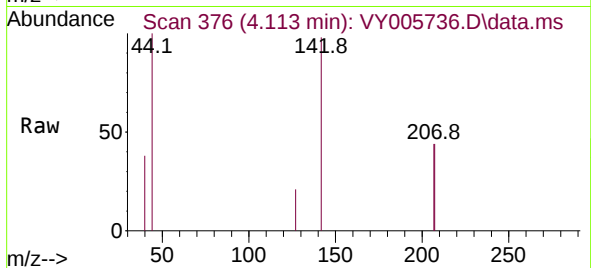
Instrument :

MSVOA\_Y

ClientSampled :

PE-3

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 525   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 19.8  | 36.6  | 54.8# |
| 141      | 0.0   | 12.2  | 18.4# |



#16

Acetone

Concen: 18.056 ug/l

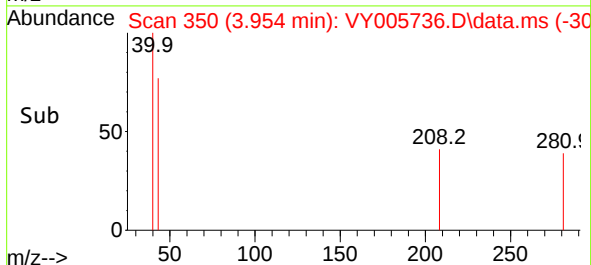
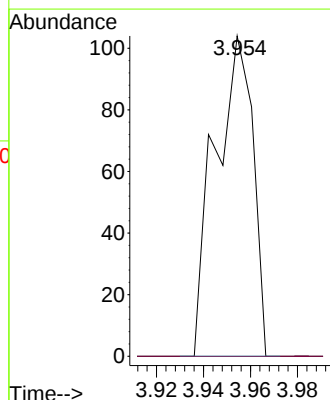
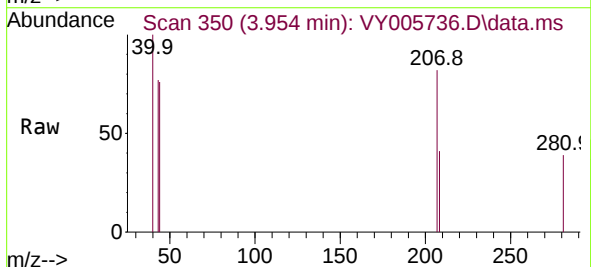
RT: 3.954 min Scan# 350

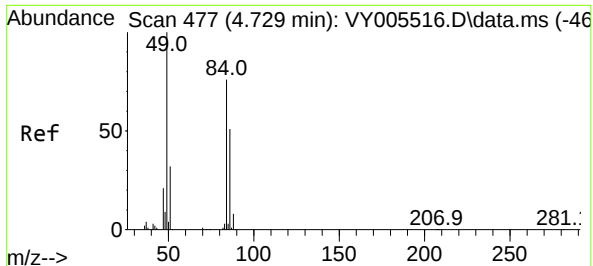
Delta R.T. -0.006 min

Lab File: VY005736.D

Acq: 18 Aug 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 117   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 23.8  | 35.6# |

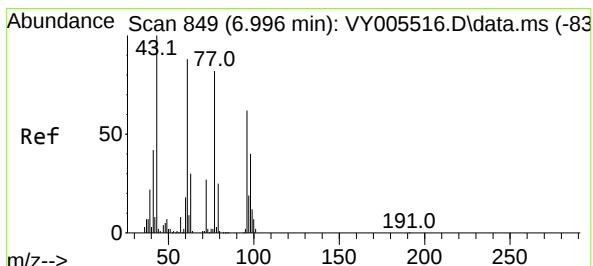
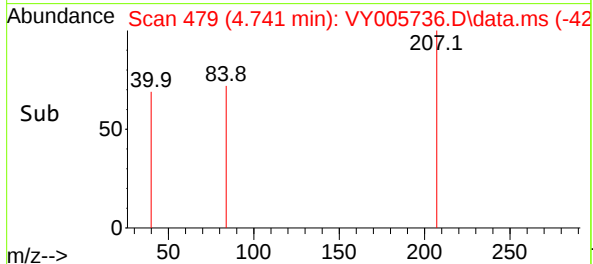
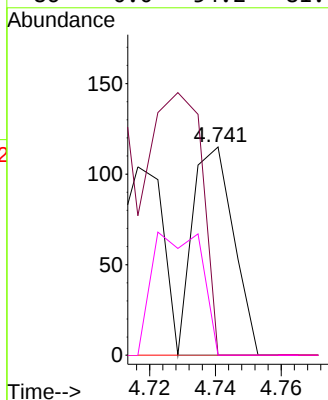
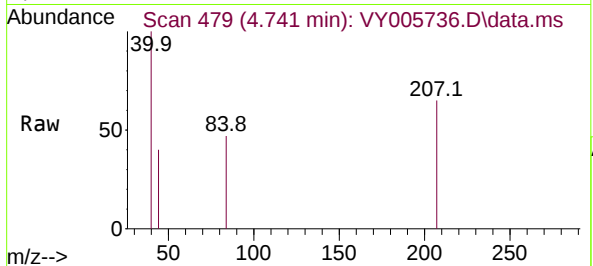




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.741 min Scan# 479  
Delta R.T. 0.012 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

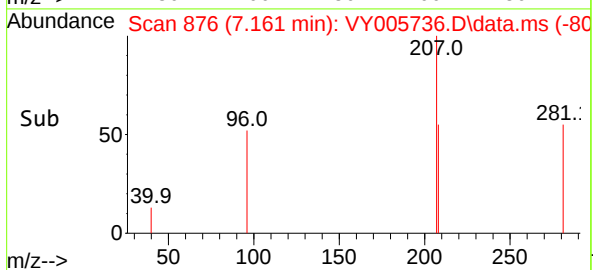
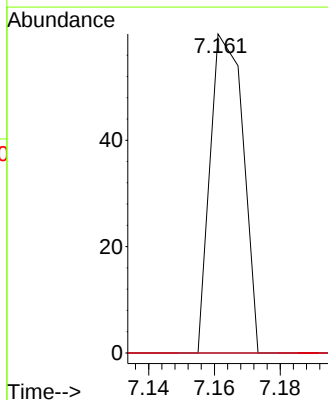
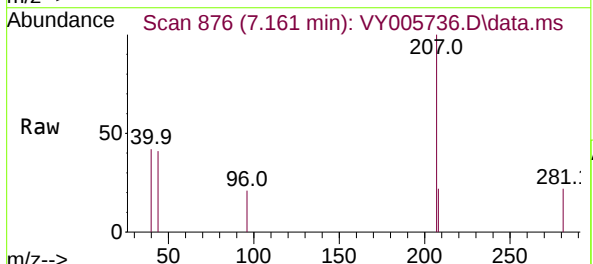
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

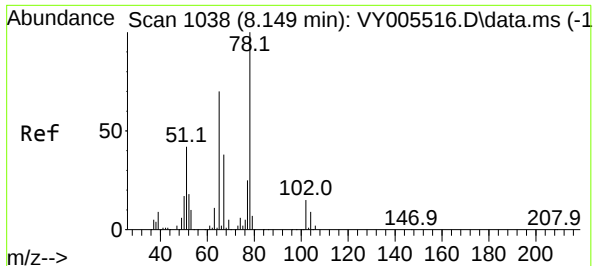
Tgt Ion: 84 Resp: 100  
Ion Ratio Lower Upper  
84 100  
49 0.0 105.8 158.6#  
51 0.0 33.4 50.2#  
86 0.0 54.2 81.4#



#27  
cis-1,2-Dichloroethene  
Concen: 1.510 ug/l  
RT: 7.161 min Scan# 876  
Delta R.T. 0.165 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 96 Resp: 42  
Ion Ratio Lower Upper  
96 100  
61 0.0 0.0 290.0  
98 0.0 0.0 128.0

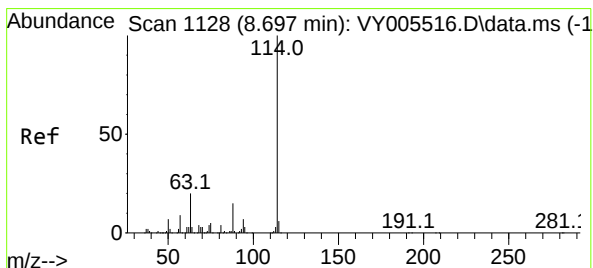
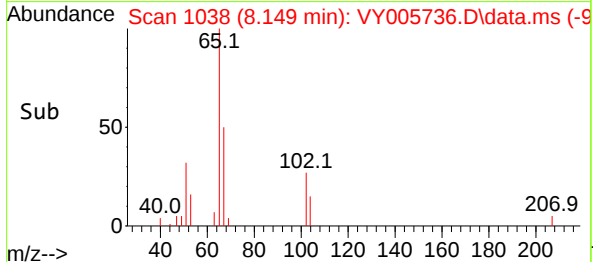
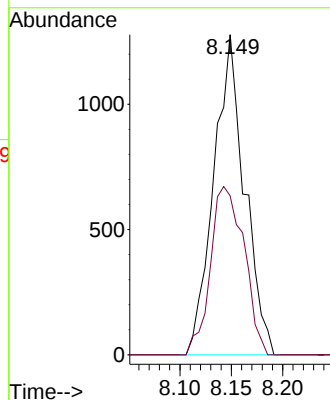
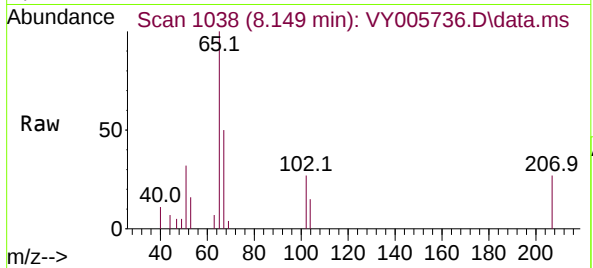




#33  
1,2-Dichloroethane-d4  
Concen: 103.615 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

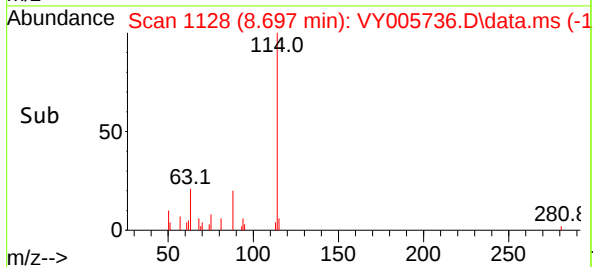
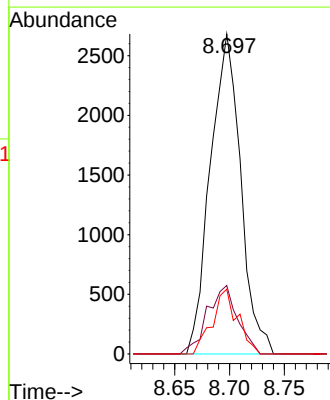
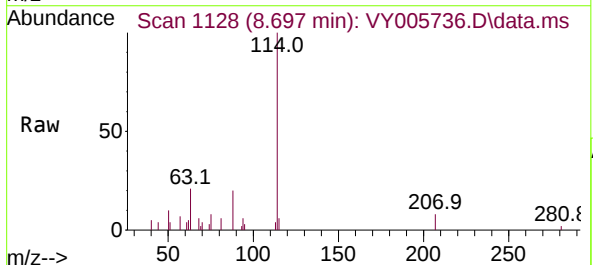
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

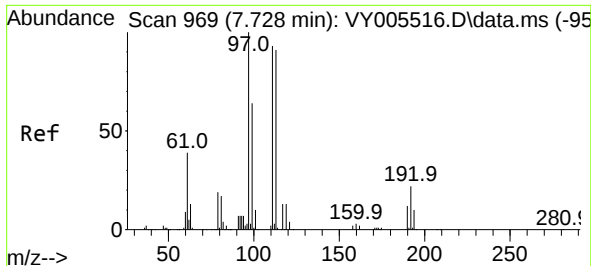
Tgt Ion: 65 Resp: 2663  
Ion Ratio Lower Upper  
65 100  
67 57.3 0.0 103.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.697 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 114 Resp: 5156  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 39.2  
88 20.2 0.0 30.8

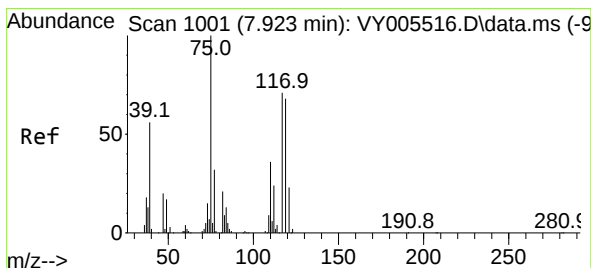
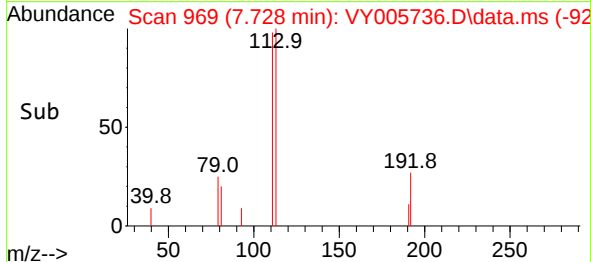
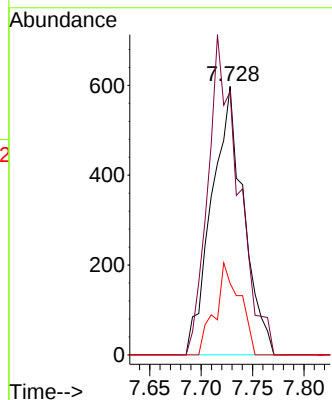
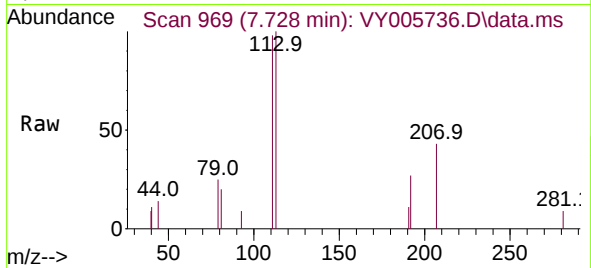




#35  
Dibromofluoromethane  
Concen: 44.861 ug/l  
RT: 7.728 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

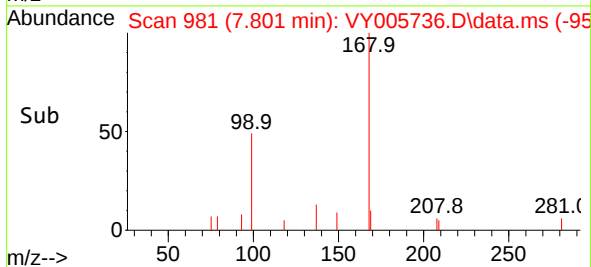
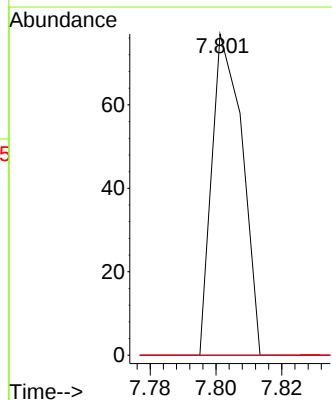
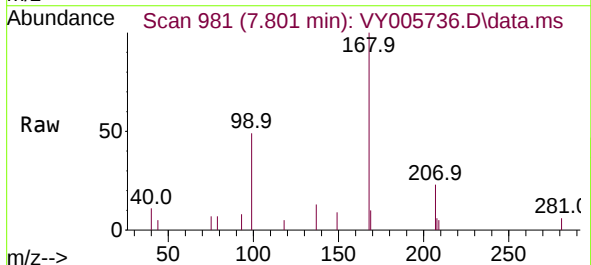
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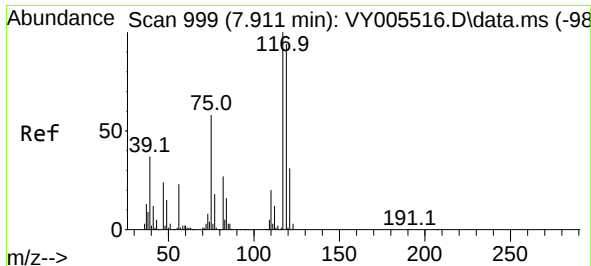
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 1295  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 114.0 | 81.9  | 122.9 |
| 192      | 26.2  | 19.2  | 28.8  |



#36  
1,1-Dichloropropene  
Concen: 1.013 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.122 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 49    |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 0.0   | 18.1  | 54.1# |
| 77       | 0.0   | 25.1  | 37.7# |

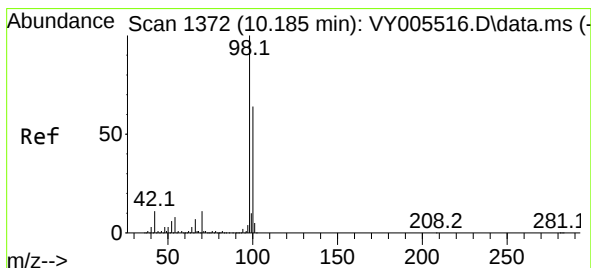
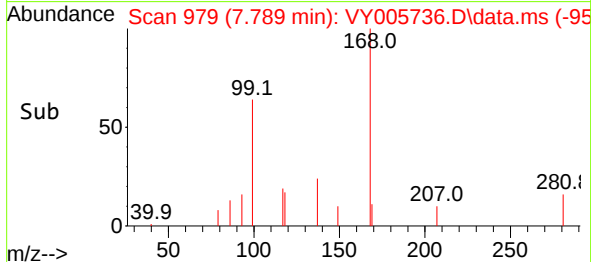
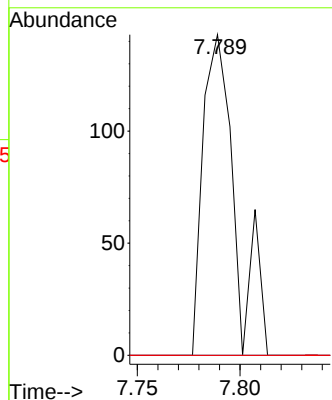
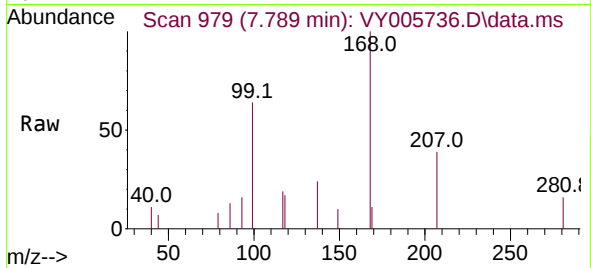




#38  
Carbon Tetrachloride  
Concen: 2.968 ug/l  
RT: 7.789 min Scan# 979  
Delta R.T. -0.122 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

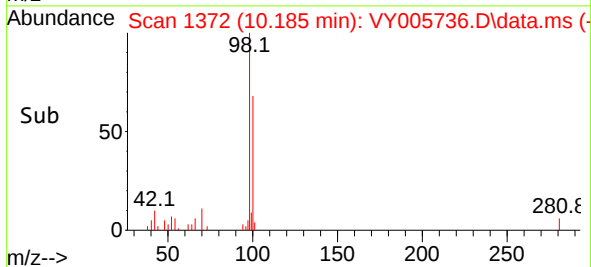
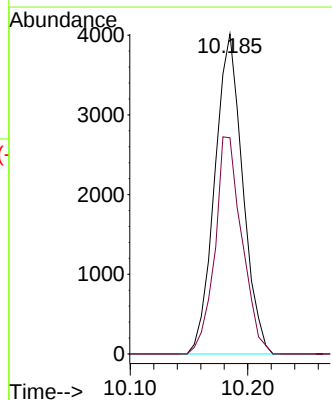
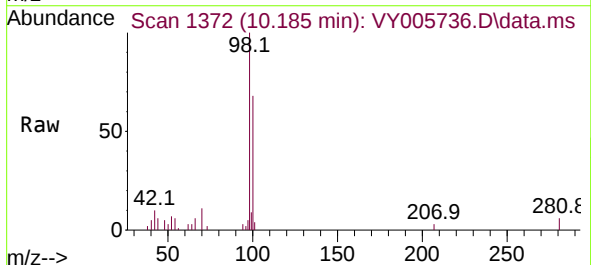
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

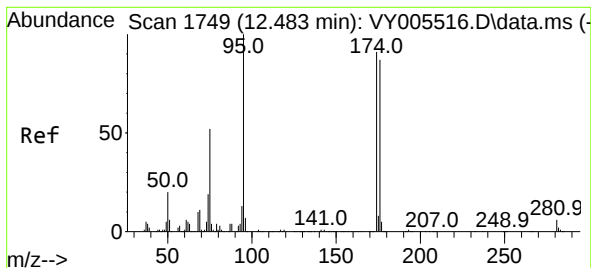
Tgt Ion:117 Resp: 156  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.4 113.0#  
121 0.0 25.1 37.7#



#50  
Toluene-d8  
Concen: 54.796 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 98 Resp: 6634  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.3 76.9

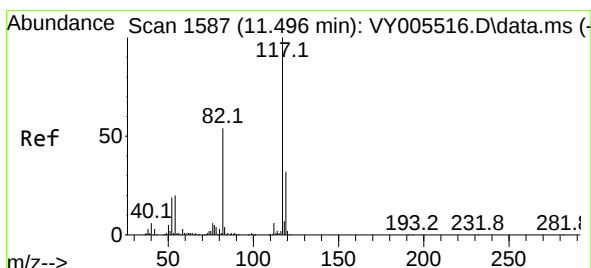
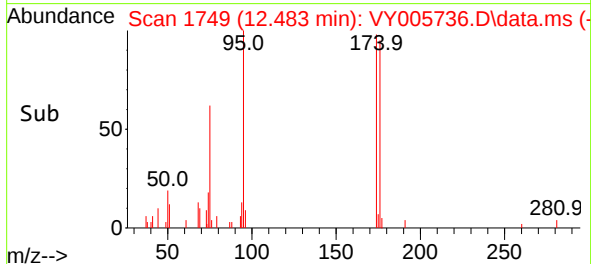
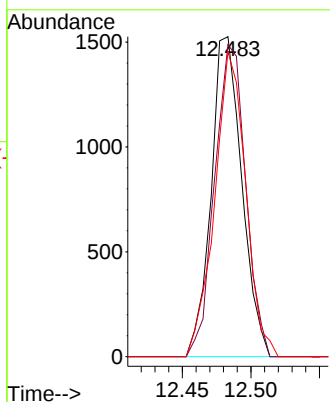
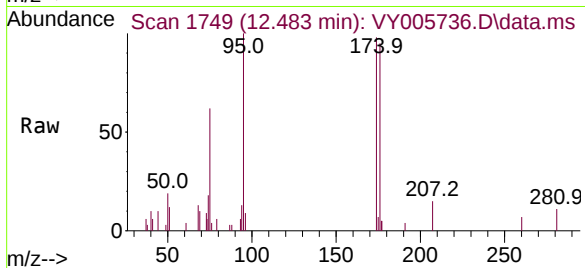




#62  
4-Bromofluorobenzene  
Concen: 59.315 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

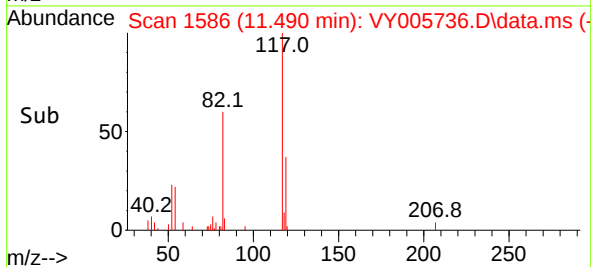
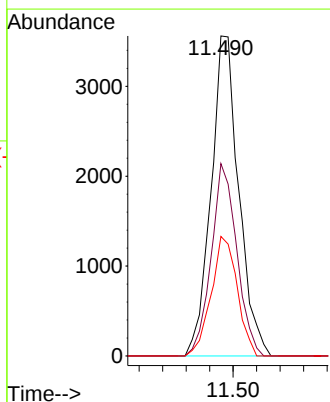
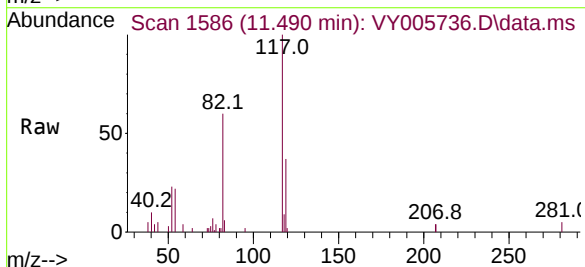
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

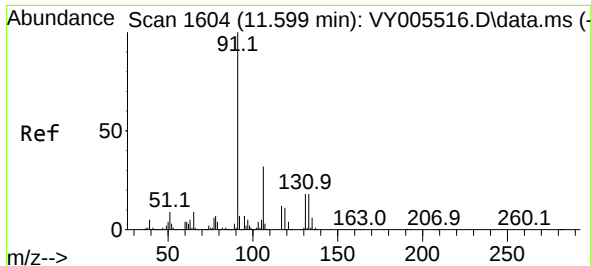
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 2378  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 98.4  | 0.0   | 191.4 |
| 176      | 96.1  | 0.0   | 183.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 5836  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 60.1  | 43.5  | 65.3  |
| 119      | 37.3  | 25.5  | 38.3  |

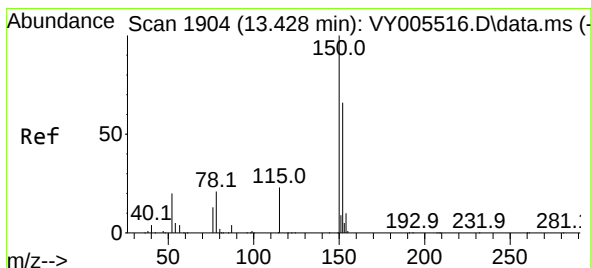
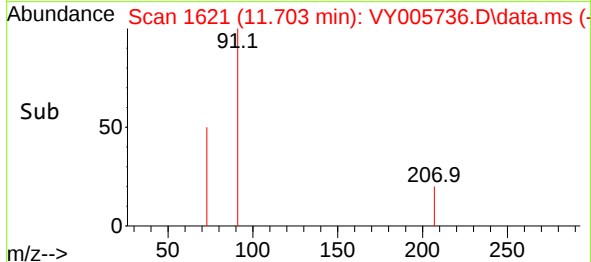
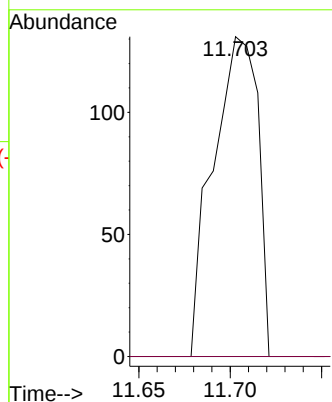
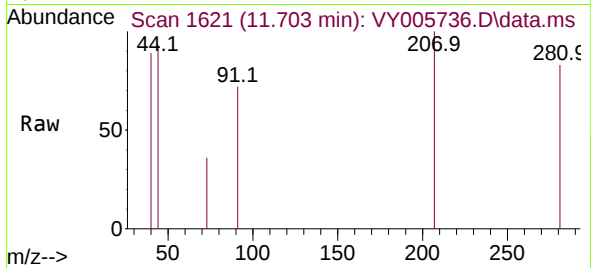




#67  
Ethyl Benzene  
Concen: 1.057 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. 0.104 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

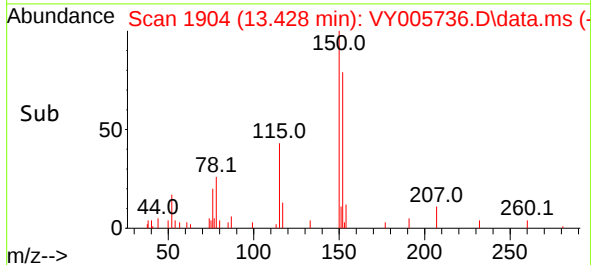
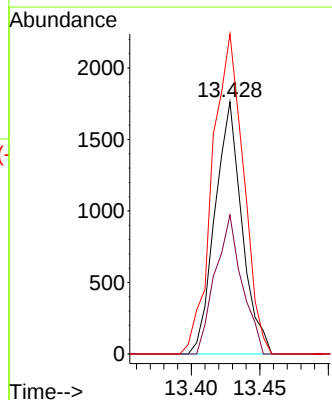
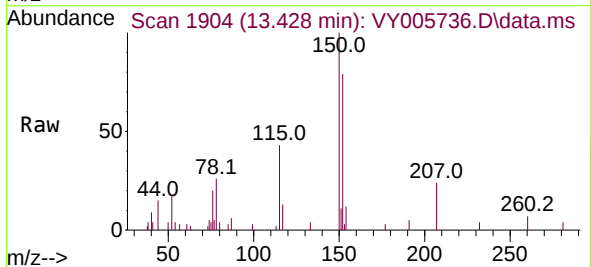
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

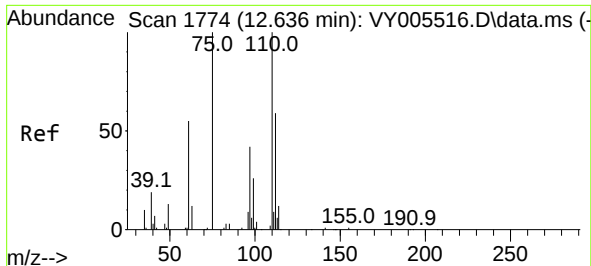
Tgt Ion: 91 Resp: 225  
Ion Ratio Lower Upper  
91 100  
106 0.0 25.8 38.6#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion:152 Resp: 2423  
Ion Ratio Lower Upper  
152 100  
115 54.4 27.3 81.9  
150 145.5 0.0 350.2

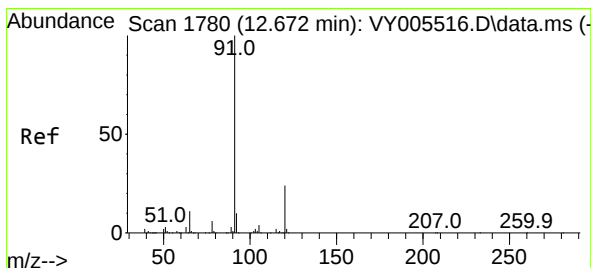
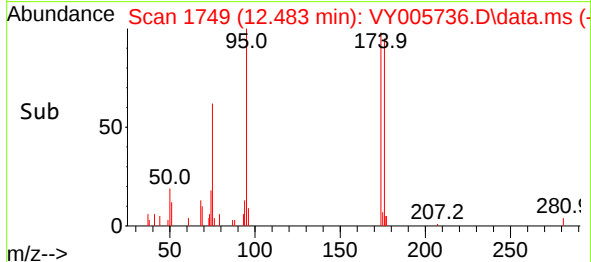
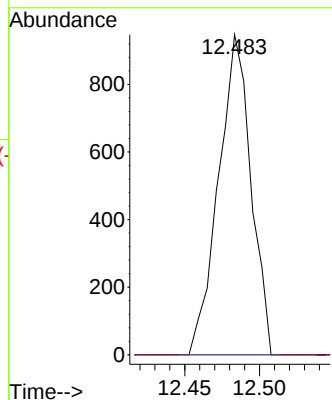
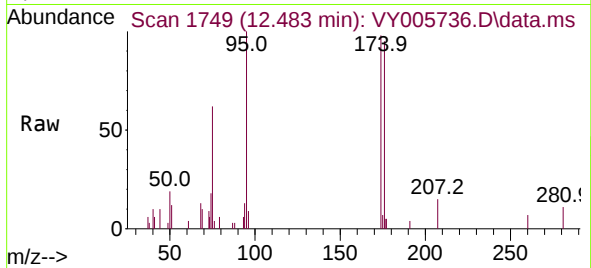




#76  
1,2,3-Trichloropropane  
Concen: 56.832 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

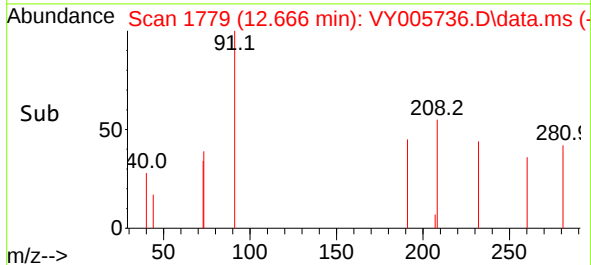
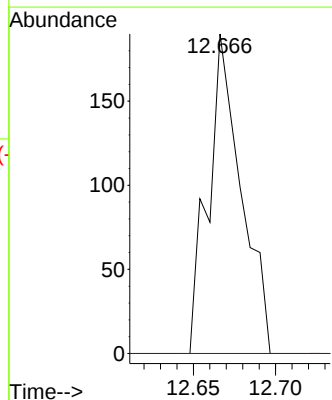
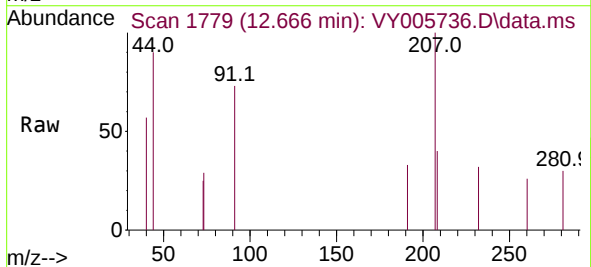
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

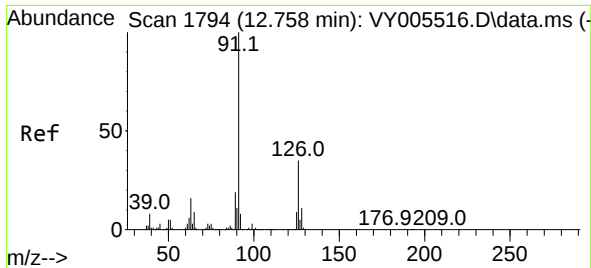
Tgt Ion: 75 Resp: 1427  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#78  
n-propylbenzene  
Concen: 1.324 ug/l  
RT: 12.666 min Scan# 1779  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 91 Resp: 266  
Ion Ratio Lower Upper  
91 100  
120 0.0 11.9 35.9#

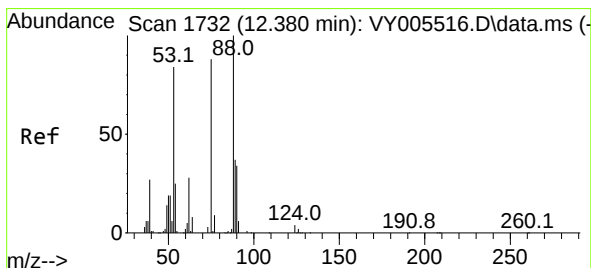
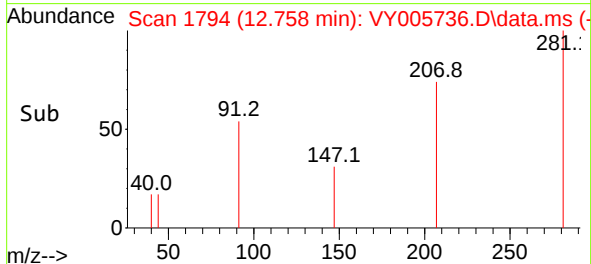
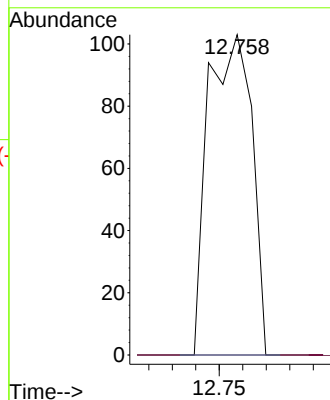
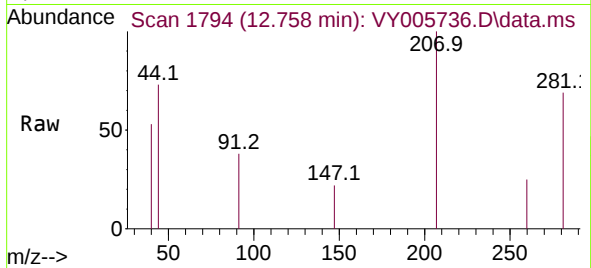




#79  
2-Chlorotoluene  
Concen: 1.179 ug/l  
RT: 12.758 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

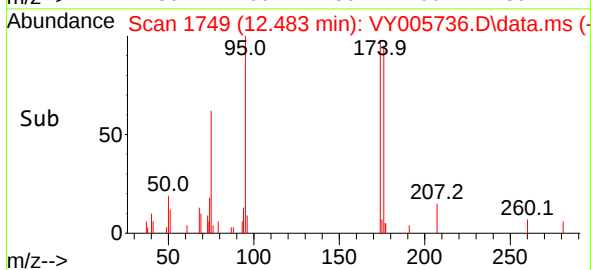
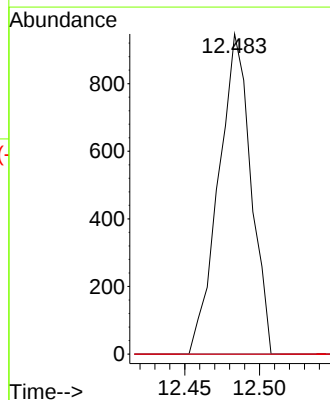
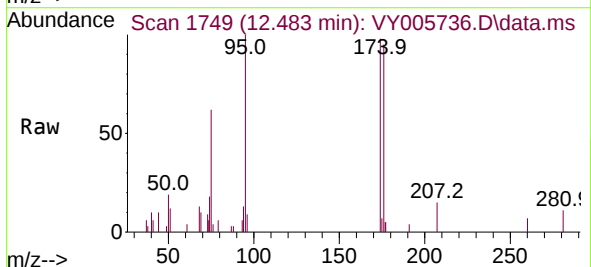
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

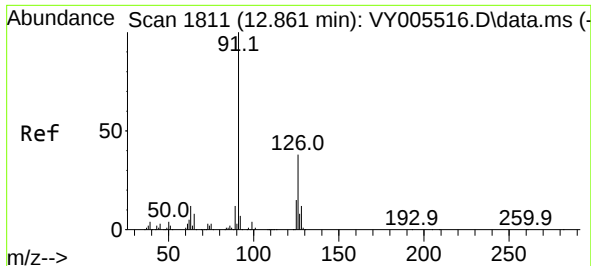
Tgt Ion: 91 Resp: 133  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.5 52.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.565 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 75 Resp: 1427  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.7 115.1#  
89 0.0 38.4 57.6#

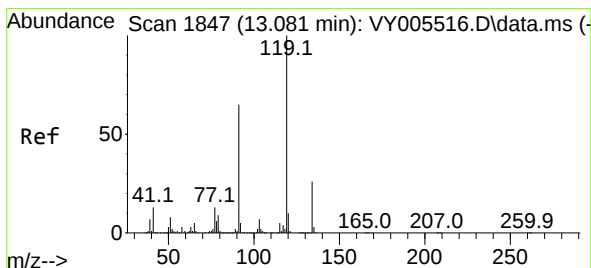
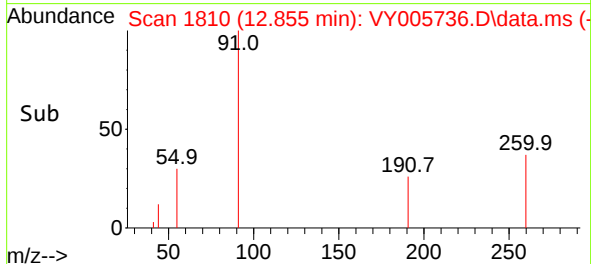
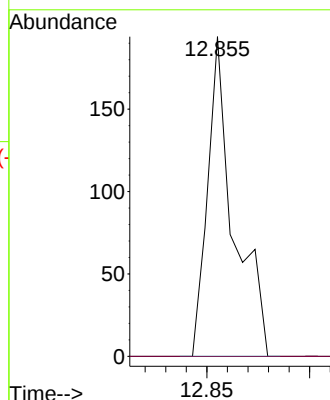
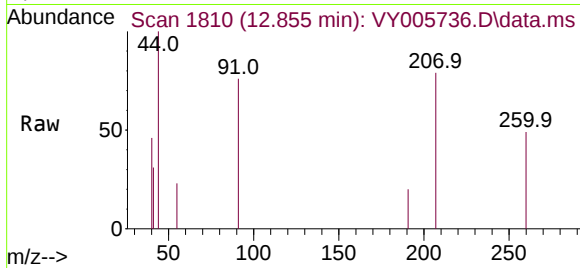




#82  
4-Chlorotoluene  
Concen: 1.465 ug/l  
RT: 12.855 min Scan# 1810  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

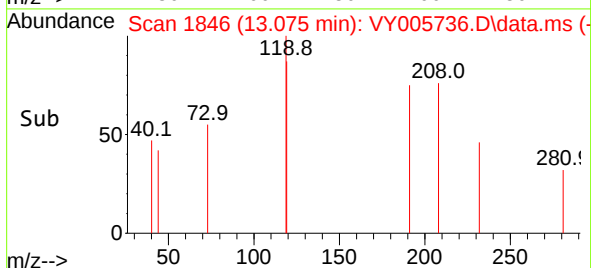
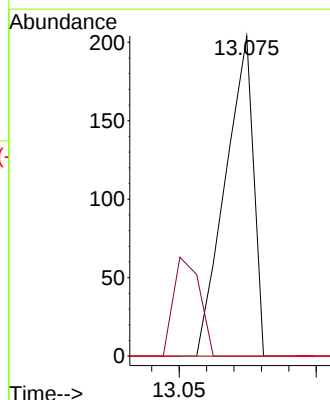
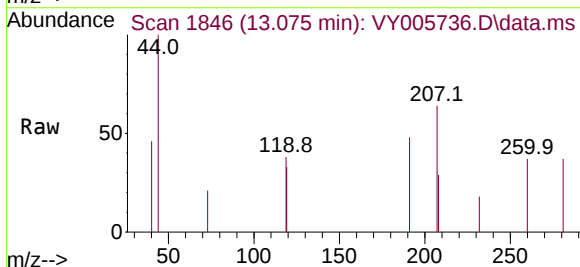
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

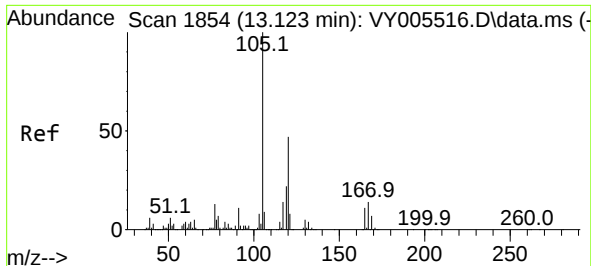
Tgt Ion: 91 Resp: 171  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.5 52.5#



#83  
tert-Butylbenzene  
Concen: 1.159 ug/l  
RT: 13.075 min Scan# 1846  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion: 119 Resp: 146  
Ion Ratio Lower Upper  
119 100  
91 0.0 31.9 95.9#  
134 0.0 13.4 40.2#

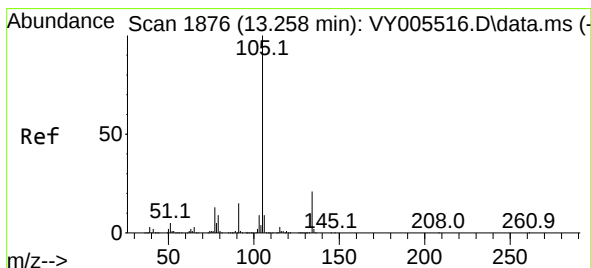
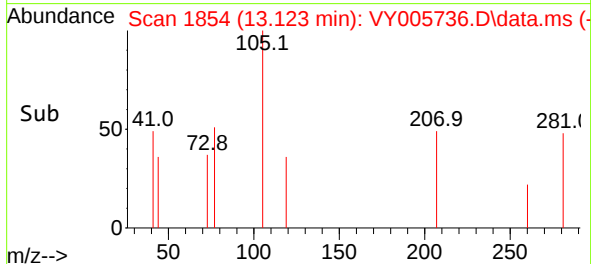
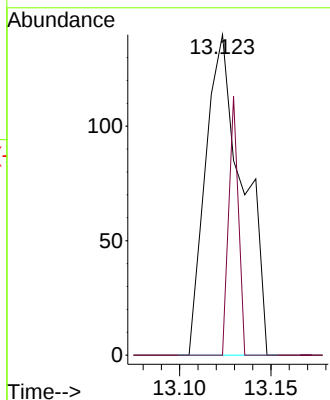
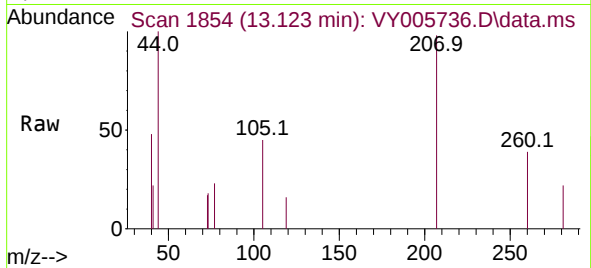




#84  
1,2,4-Trimethylbenzene  
Concen: 1.430 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

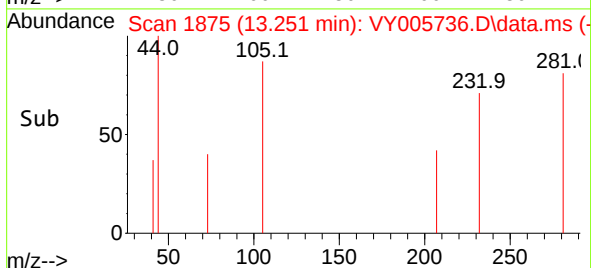
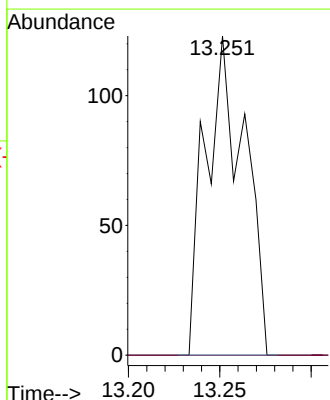
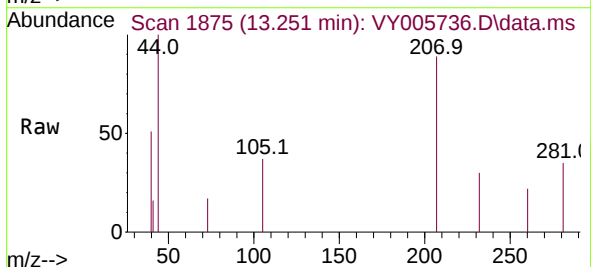
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

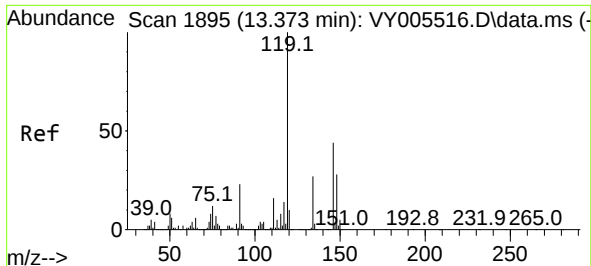
Tgt Ion:105 Resp: 198  
Ion Ratio Lower Upper  
105 100  
120 20.7 22.9 68.5#



#85  
sec-Butylbenzene  
Concen: 1.007 ug/l  
RT: 13.251 min Scan# 1875  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

Tgt Ion:105 Resp: 183  
Ion Ratio Lower Upper  
105 100  
134 0.0 10.5 31.5#

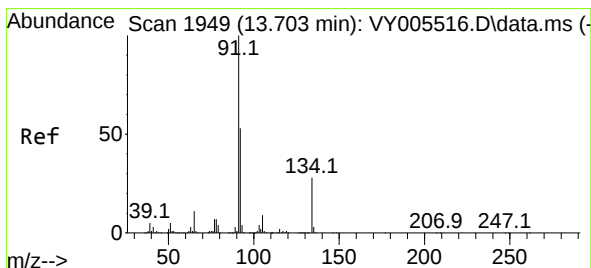
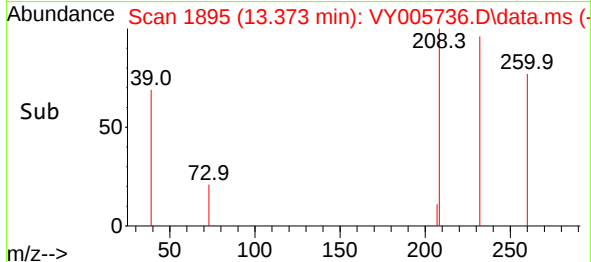
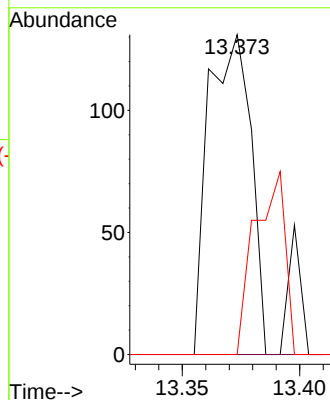
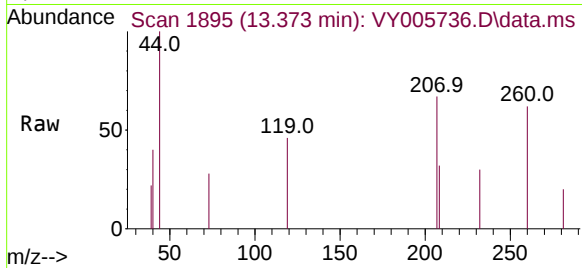




#86  
p-Isopropyltoluene  
Concen: 1.058 ug/l  
RT: 13.373 min Scan# 1895  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

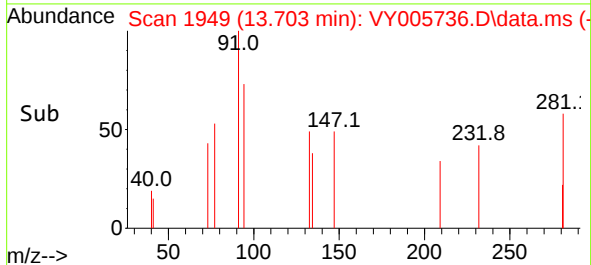
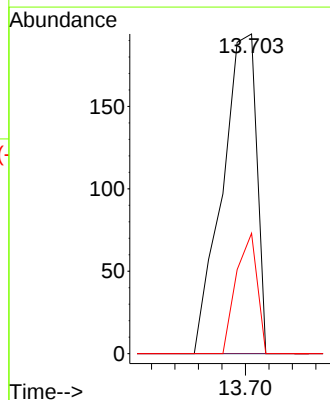
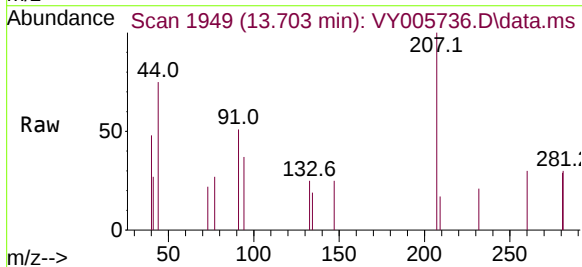
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

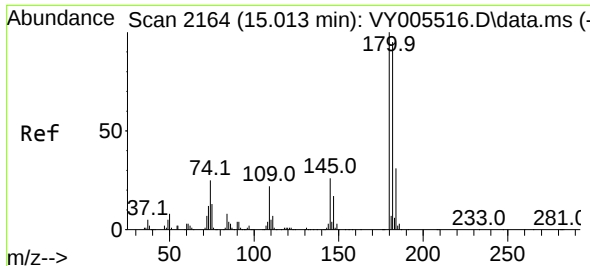
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 165   |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 0.0   | 13.6  | 40.7# |
| 91       | 0.0   | 11.6  | 34.7# |



#89  
n-Butylbenzene  
Concen: 1.387 ug/l  
RT: 13.703 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 196   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 0.0   | 26.7  | 80.1# |
| 134      | 23.0  | 13.8  | 41.4  |

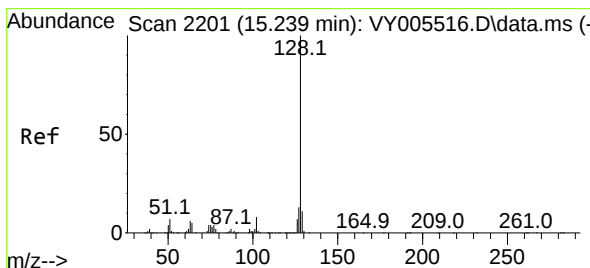
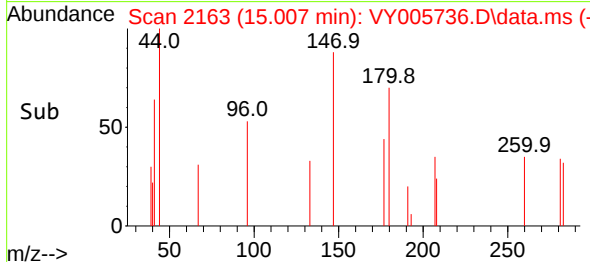
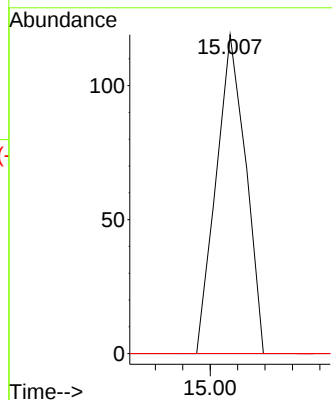
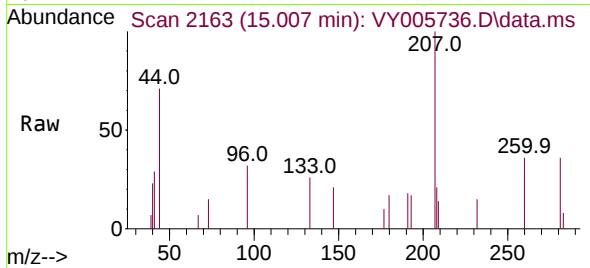




#93  
1,2,4-Trichlorobenzene  
Concen: 1.809 ug/l  
RT: 15.007 min Scan# 2163  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

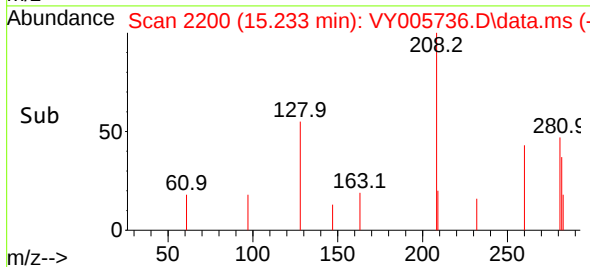
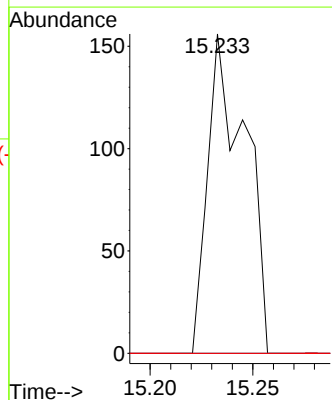
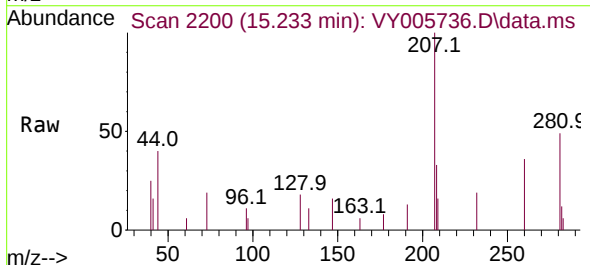
Instrument :  
MSVOA\_Y  
ClientSampled :  
PE-3

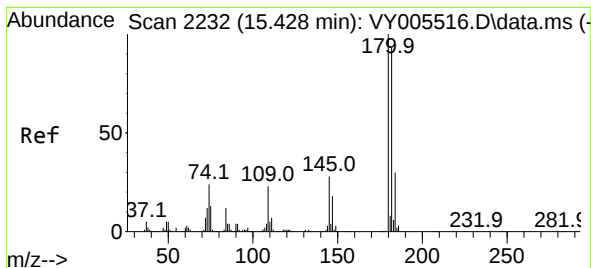
Tgt Ion:180 Resp: 89  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.8 143.4#  
145 0.0 14.0 42.0#



#95  
Naphthalene  
Concen: 2.042 ug/l  
RT: 15.233 min Scan# 2200  
Delta R.T. -0.006 min  
Lab File: VY005736.D  
Acq: 18 Aug 2021 13:49

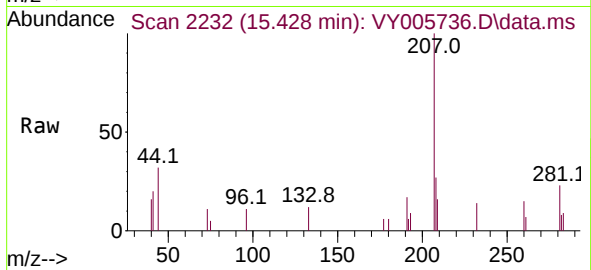
Tgt Ion:128 Resp: 198  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 0.0 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.124 ug/l  
 RT: 15.428 min Scan# 2232  
 Delta R.T. 0.000 min  
 Lab File: VY005736.D  
 Acq: 18 Aug 2021 13:49

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PE-3



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 49     |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 0.0   | 47.9  | 143.6# |
| 145      | 0.0   | 14.6  | 44.0#  |

