

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP122319\  
 Data File : BP001373.D  
 Acq On : 23 Dec 2019 18:08  
 Operator : JU  
 Sample : K6372-18  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 MW-14

Quant Time: Dec 24 04:58:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP121919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 20 03:20:39 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.30  | 152  | 54970    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.39 | 136  | 219855   | 20.00 | ng    | 0.05     |
| 39) Acenaphthene-d10      | 13.20 | 164  | 115517   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 15.60 | 188  | 214437   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 19.25 | 240  | 156331   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 21.02 | 264  | 161592   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.21  | 112  | 199522   | 58.66  | ng    | 0.01     |
| 7) Phenol-d6                | 7.76  | 99   | 161421   | 36.37  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 451291   | 78.83  | ng    | 0.02     |
| 42) 2,4,6-Tribromophenol    | 14.50 | 330  | 193543   | 134.01 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 12.13 | 172  | 796933   | 87.23  | ng    | 0.01     |
| 79) Terphenyl-d14           | 17.89 | 244  | 957627   | 104.92 | ng    | 0.00     |

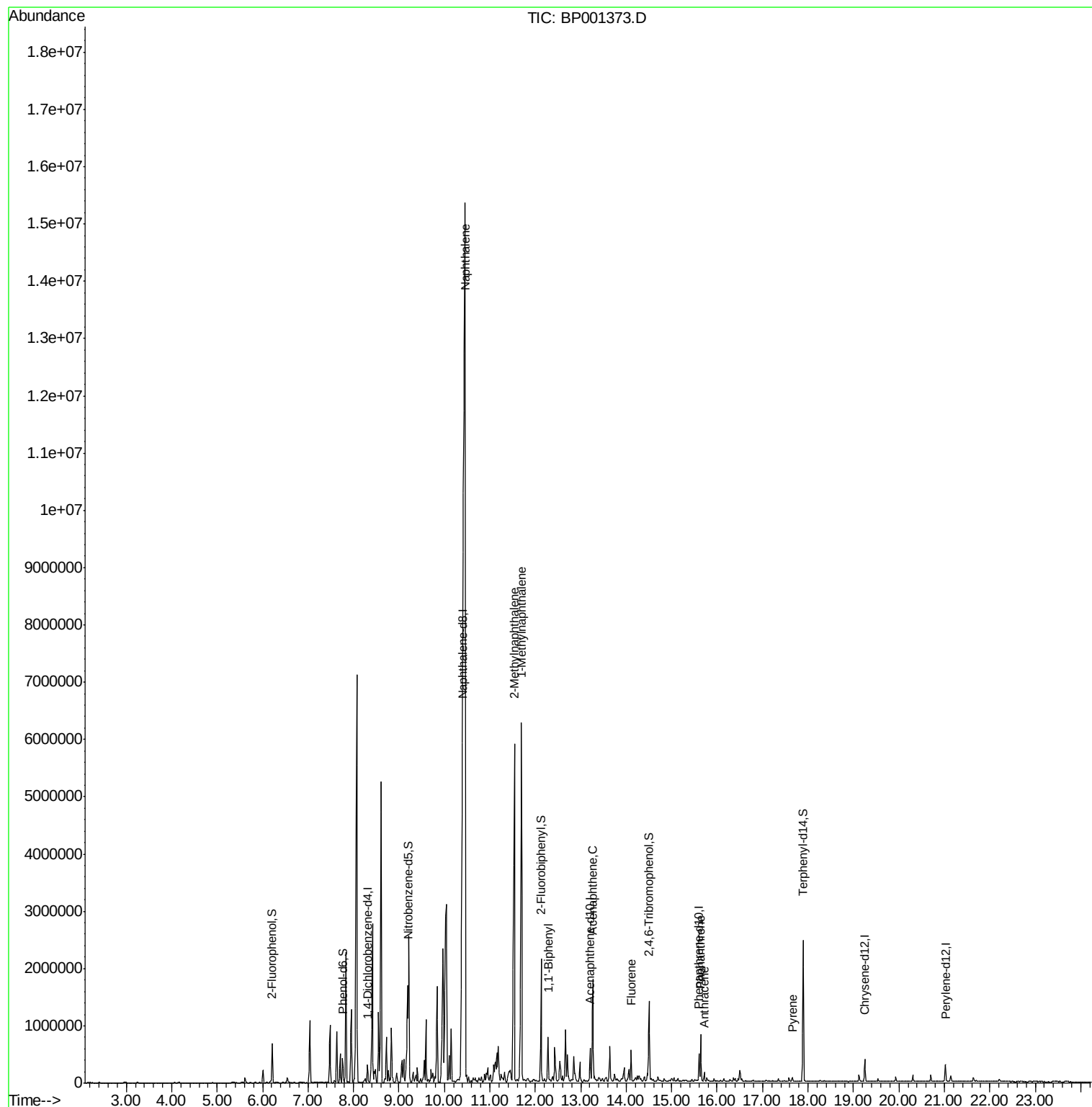
| Target Compounds        | R.T.  | QIon | Response | Conc     | Units | Qvalue |
|-------------------------|-------|------|----------|----------|-------|--------|
| 31) Naphthalene         | 10.46 | 128  | 24004710 | 2000.197 | ng    | 95     |
| 37) 2-Methylnaphthalene | 11.54 | 142  | 2699236  | 325.788  | ng    | 96     |
| 38) 1-Methylnaphthalene | 11.70 | 142  | 2655682  | 340.940  | ng    | 98     |
| 46) 1,1'-Biphenyl       | 12.28 | 154  | 285837   | 29.569   | ng    | 99     |
| 52) Acenaphthene        | 13.26 | 154  | 511945   | 74.378   | ng    | 99     |
| 58) Fluorene            | 14.10 | 166  | 173820   | 20.152   | ng    | 94     |
| 71) Phenanthrene        | 15.64 | 178  | 388550   | 31.759   | ng    | 99     |
| 72) Anthracene          | 15.72 | 178  | 71960    | 5.942    | ng    | 98     |
| 78) Pyrene              | 17.66 | 202  | 36416    | 3.000    | ng    | 99     |

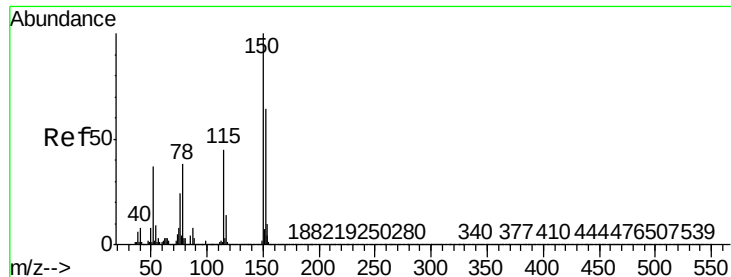
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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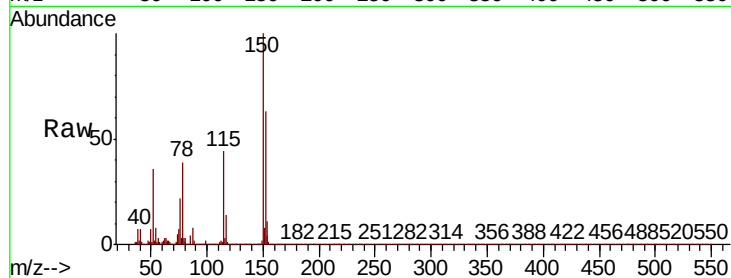




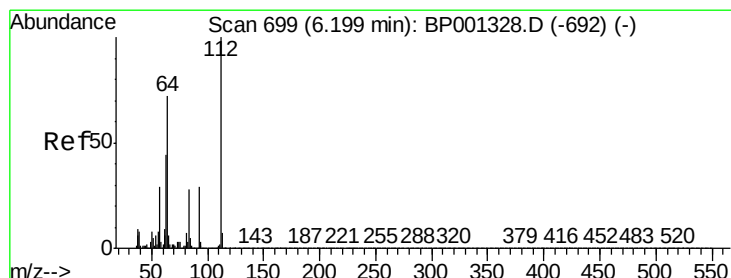
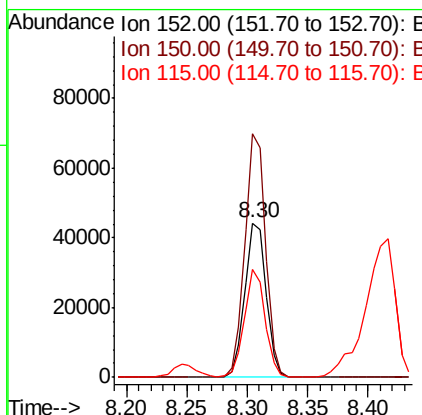
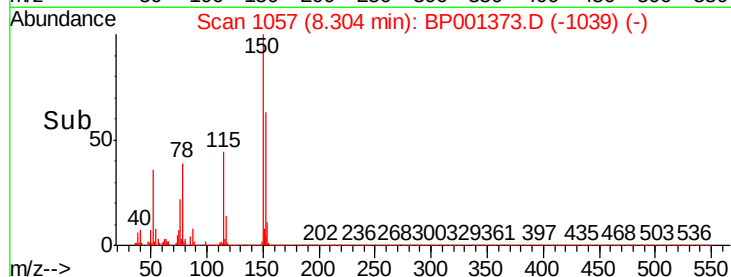
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.30 min Scan# 1057  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

Instrument :  
BNA\_P  
ClientSampled :  
MW-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.8 | 124.0 | 186.0 |
| 115     | 69.6  | 59.3  | 88.9  |

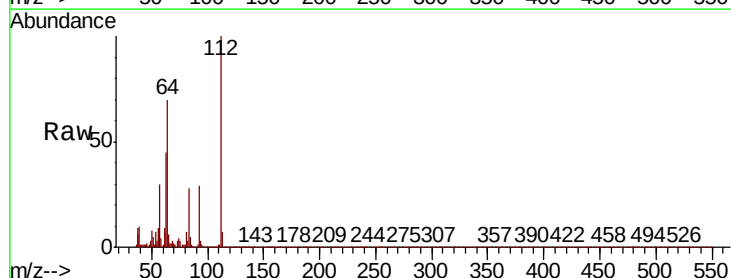


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E

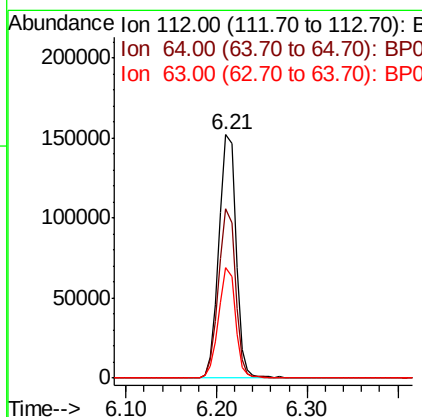
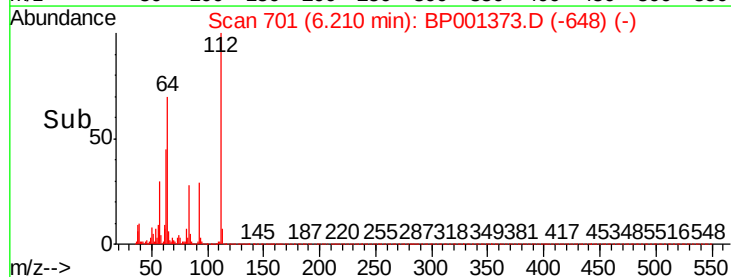


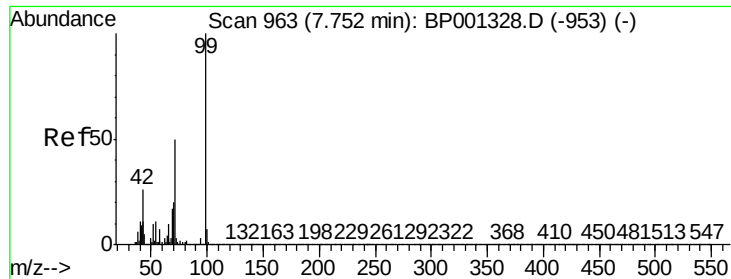
#5  
2-Fluorophenol  
Concen: 58.662 ng  
RT: 6.21 min Scan# 701  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.7  | 57.6  | 86.4  |
| 63      | 45.3  | 35.1  | 52.7  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BP0  
Ion 63.00 (62.70 to 63.70): BP0





#7

Phenol-d6

Concen: 36.371 ng

RT: 7.76 min Scan# 965

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Instrument :

BNA\_P

ClientSampleId :

MW-14

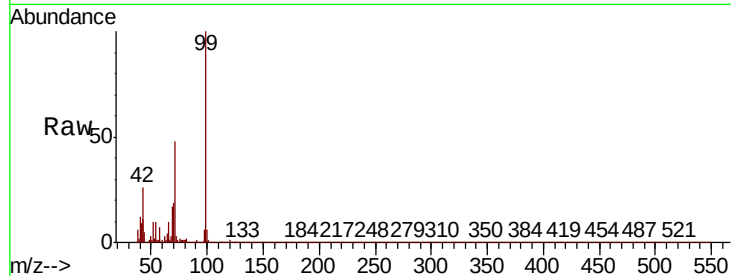
Tot Ion: 99 Resp: 161421

Ion Ratio Lower Upper

99 100

42 26.0 20.9 31.3

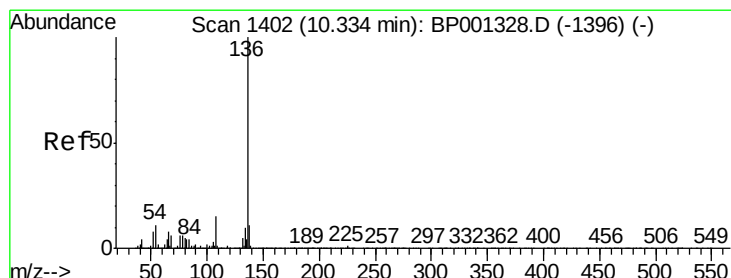
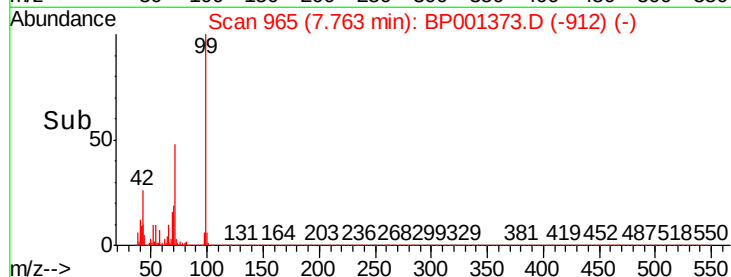
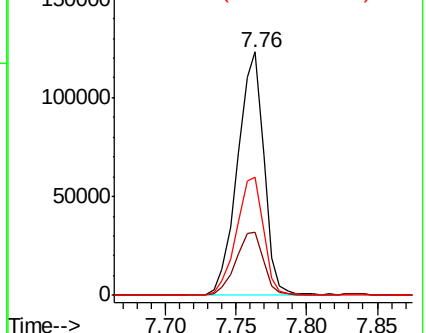
71 48.5 40.0 60.0



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.39 min Scan# 1411

Delta R.T. 0.05 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Tgt Ion: 136 Resp: 219855

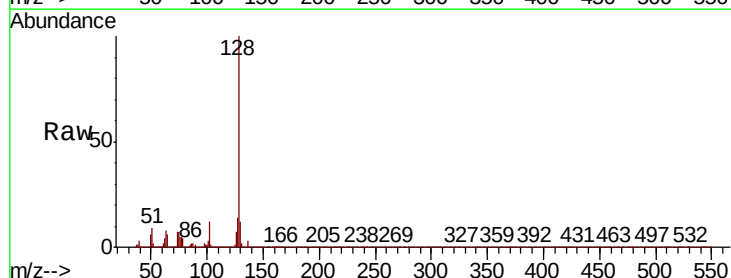
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 9.3 8.8 13.2

68 5.8 4.6 6.8

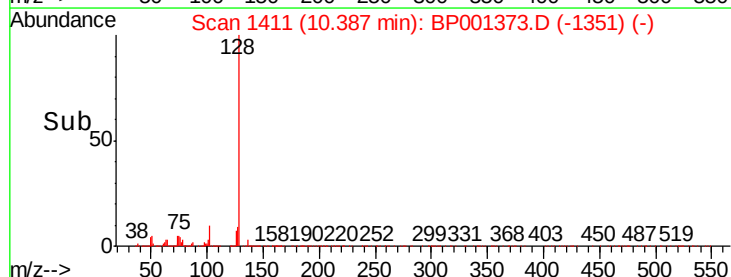
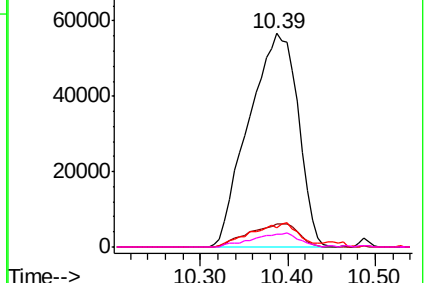


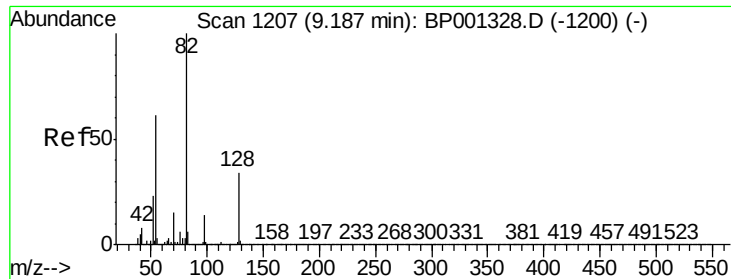
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

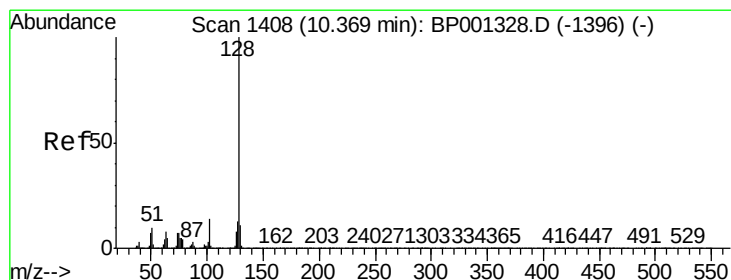
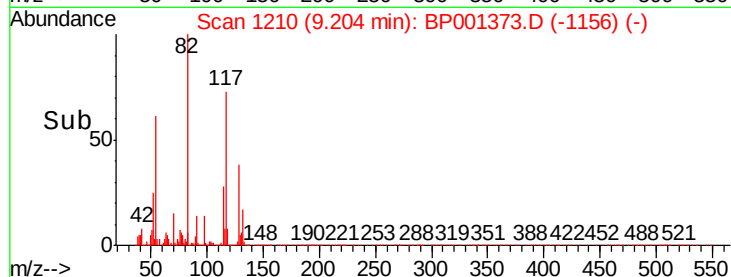
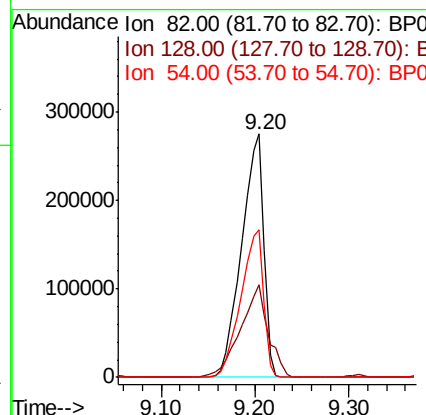
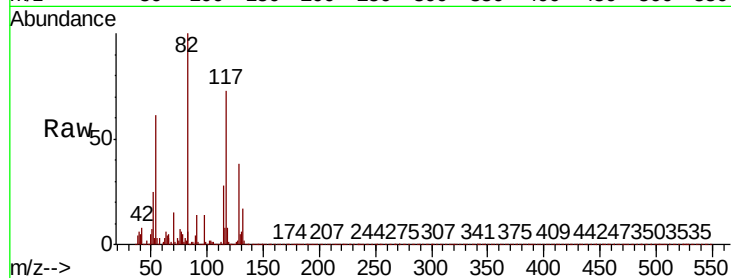




#23  
 Nitrobenzene-d5  
 Concen: 78.825 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. 0.02 min  
 Lab File: BP001373.D  
 Acq: 23 Dec 2019 18:08

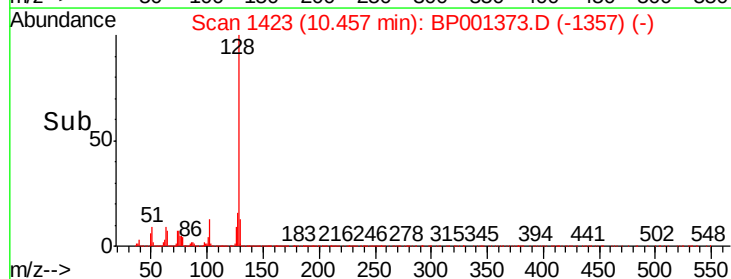
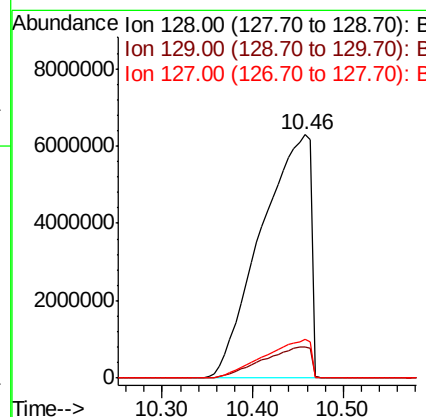
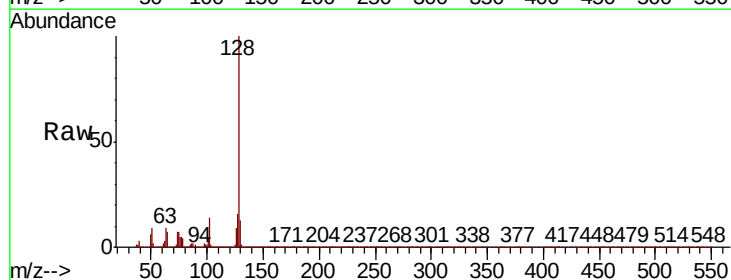
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 BNA\_P  
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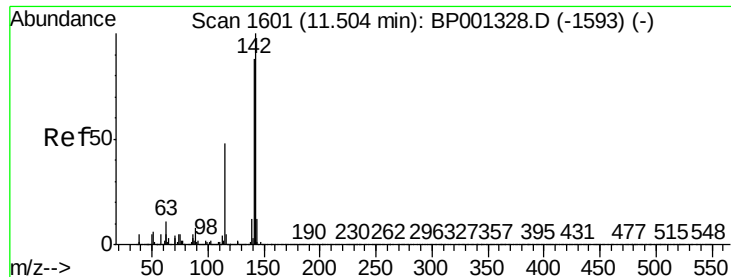
| Tot Ion   | 82    | Resp  | 451291 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 38.2  | 27.0  | 40.4   |
| 54        | 60.9  | 49.0  | 73.4   |



#31  
 Naphthalene  
 Concen: 2000.197 ng  
 RT: 10.46 min Scan# 1423  
 Delta R.T. 0.09 min  
 Lab File: BP001373.D  
 Acq: 23 Dec 2019 18:08

| Tgt Ion   | 128   | Resp  | 24004710 |
|-----------|-------|-------|----------|
| Ion Ratio | Lower | Upper |          |
| 128       | 100   |       |          |
| 129       | 12.9  | 8.9   | 13.3     |
| 127       | 15.8  | 10.7  | 16.1     |

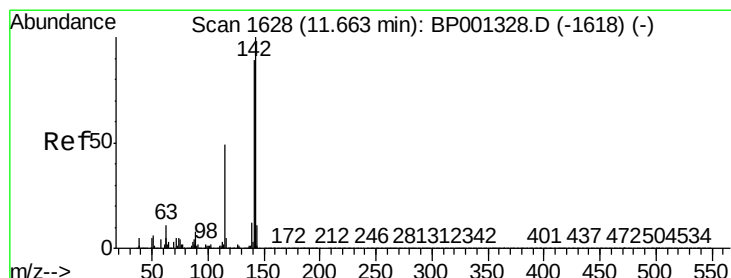
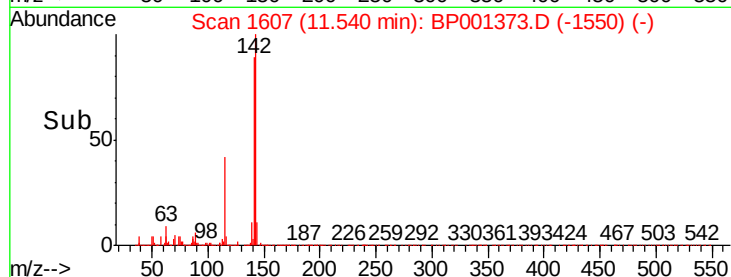
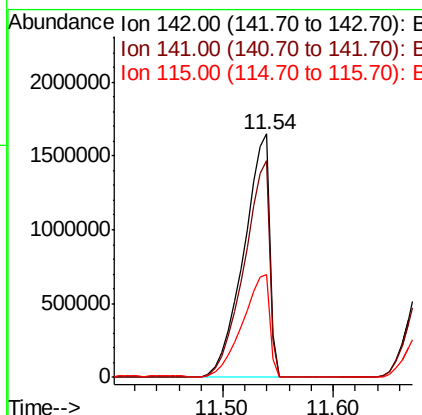
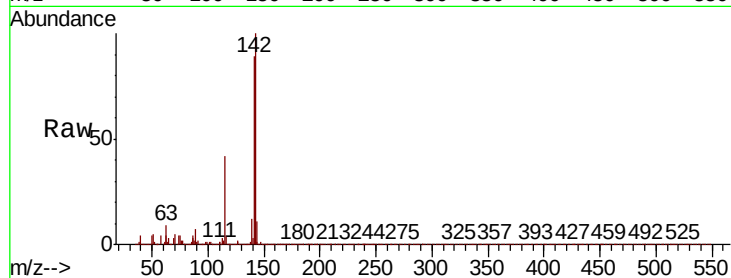




#37  
2-Methylnaphthalene  
Concen: 325.788 ng  
RT: 11.54 min Scan# 1607  
Delta R.T. 0.04 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

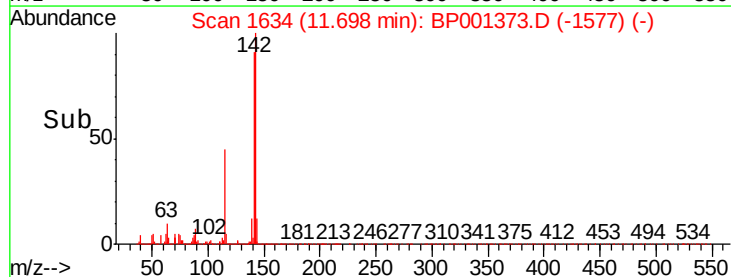
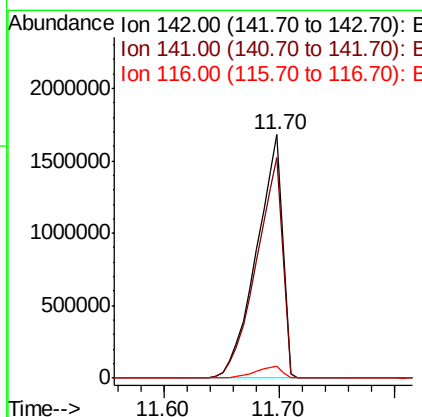
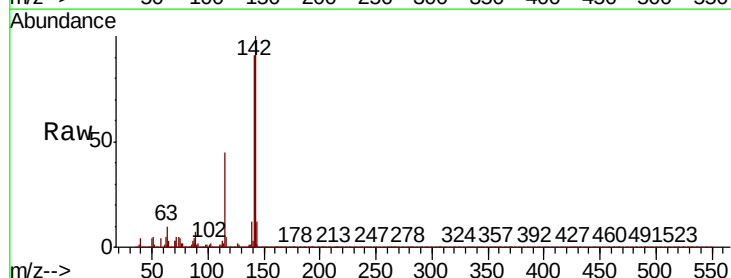
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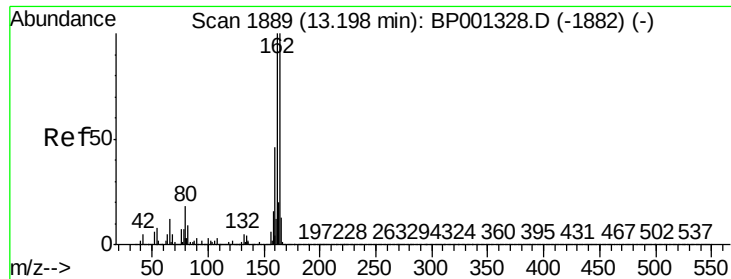
Tot Ion:142 Resp: 2699236  
Ion Ratio Lower Upper  
142 100  
141 89.2 70.2 105.4  
115 42.4 38.7 58.1



#38  
1-Methylnaphthalene  
Concen: 340.940 ng  
RT: 11.70 min Scan# 1634  
Delta R.T. 0.04 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

Tgt Ion:142 Resp: 2655682  
Ion Ratio Lower Upper  
142 100  
141 90.7 71.3 106.9  
116 4.8 4.2 6.2

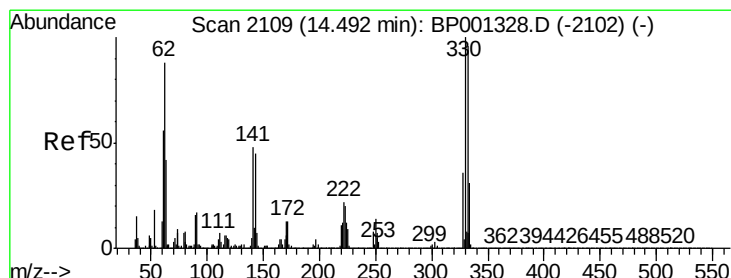
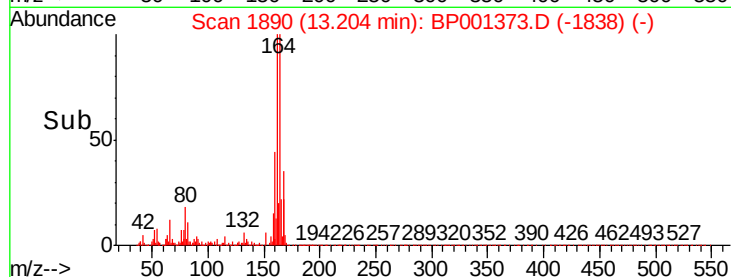
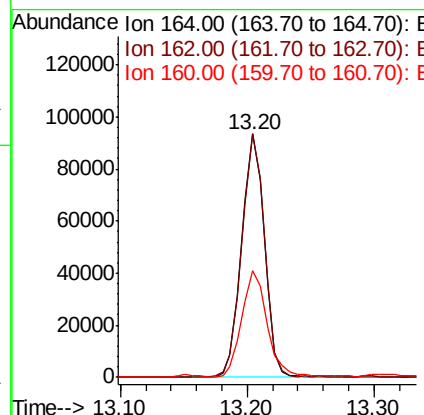
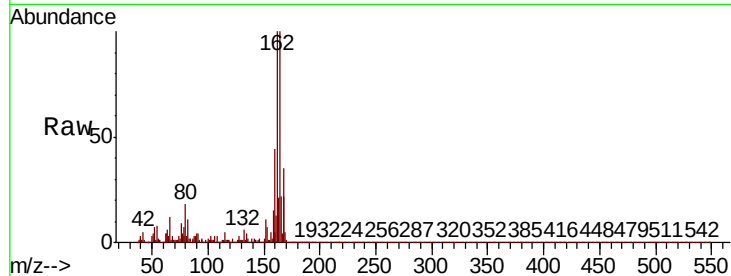




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 13.20 min Scan# 1890  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

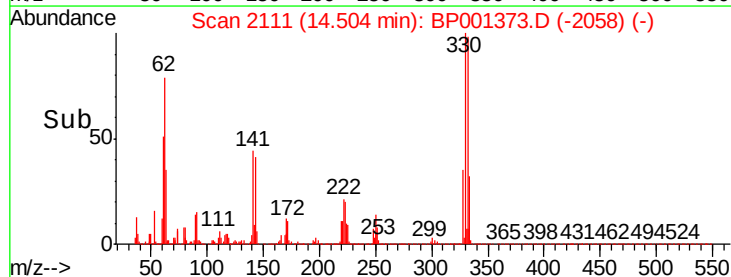
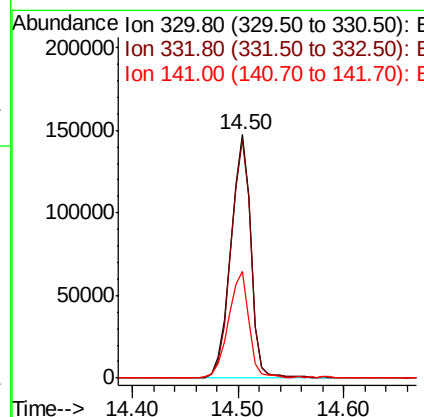
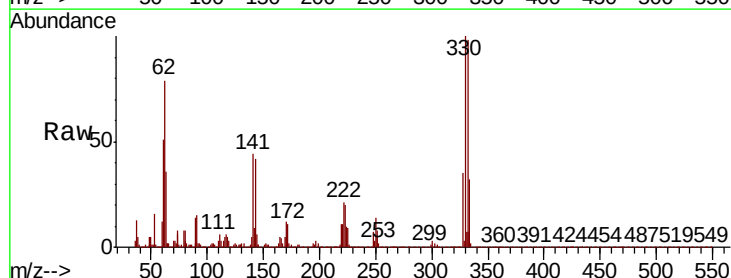
Instrument :  
BNA\_P  
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MW-14

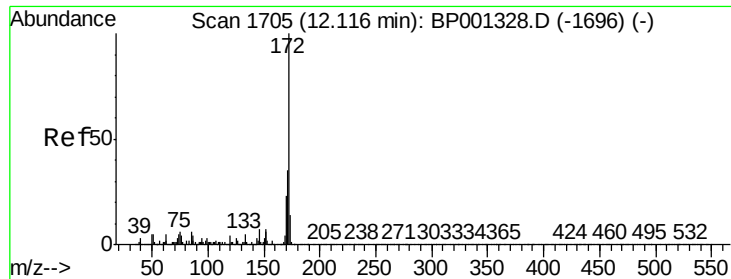
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.0 | 80.3  | 120.5 |
| 160     | 44.0  | 36.6  | 54.8  |



#42  
2,4,6-Tribromophenol  
Concen: 134.011 ng  
RT: 14.50 min Scan# 2111  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 78.7  | 118.1 |
| 141     | 43.7  | 36.2  | 54.4  |

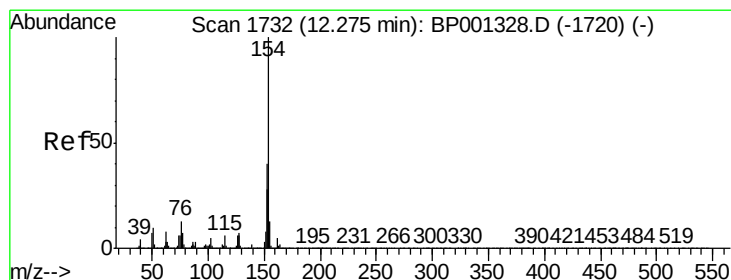
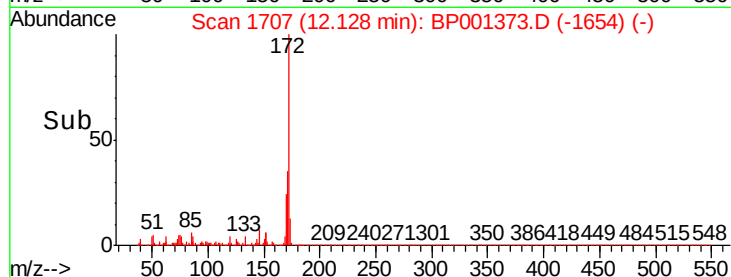
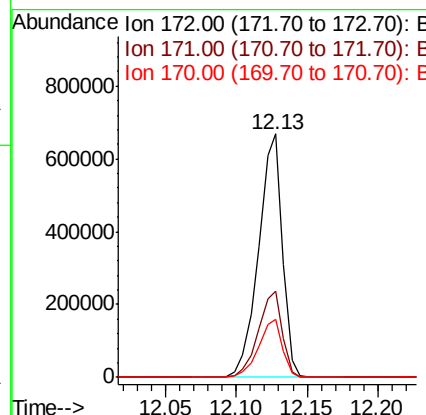
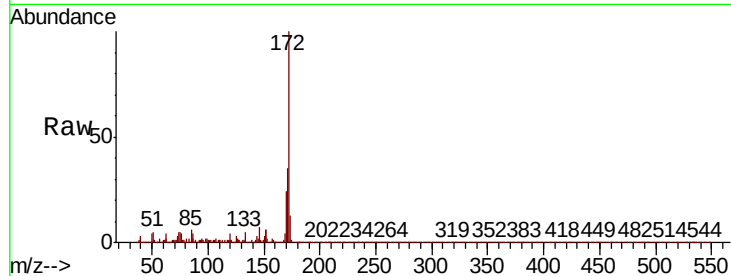




#45  
2-Fluorobiphenyl  
Concen: 87.235 ng  
RT: 12.13 min Scan# 1707  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

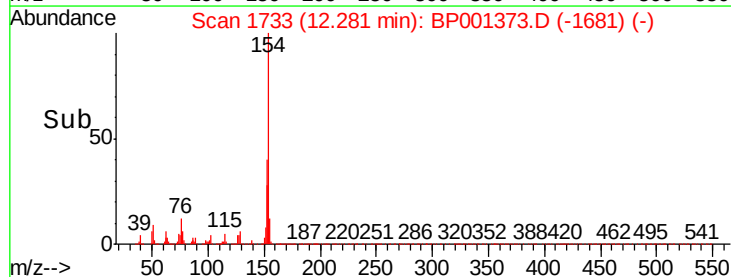
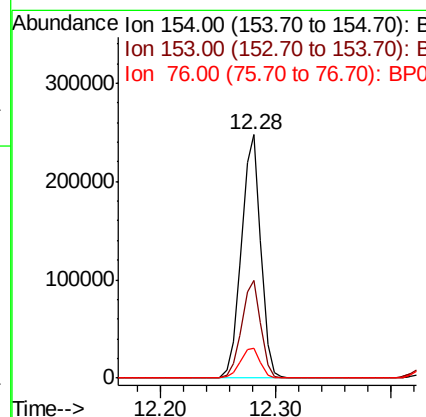
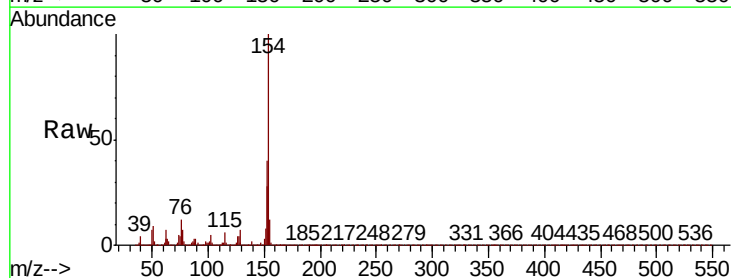
Instrument :  
BNA\_P  
ClientSampleId :  
MW-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 27.7  | 41.5  |
| 170     | 23.8  | 18.6  | 28.0  |

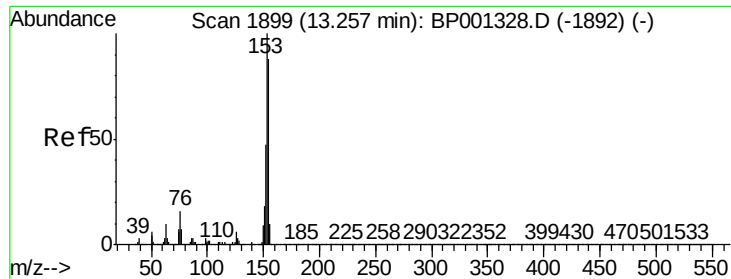


#46  
1,1'-Biphenyl  
Concen: 29.569 ng  
RT: 12.28 min Scan# 1733  
Delta R.T. 0.01 min  
Lab File: BP001373.D  
Acq: 23 Dec 2019 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 39.9  | 20.2  | 60.2  |
| 76      | 12.1  | 0.0   | 33.1  |







#52

Acenaphthene

Concen: 74.378 ng

RT: 13.26 min Scan# 1900

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Instrument :

BNA\_P

ClientSampleId :

MW-14

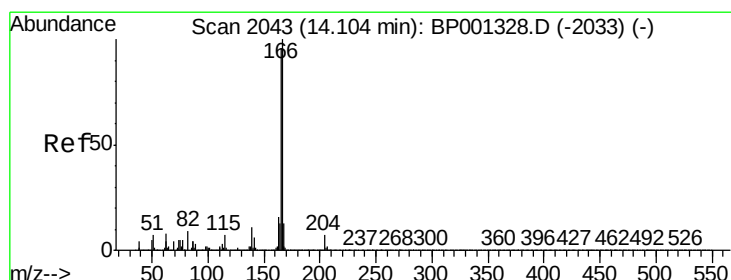
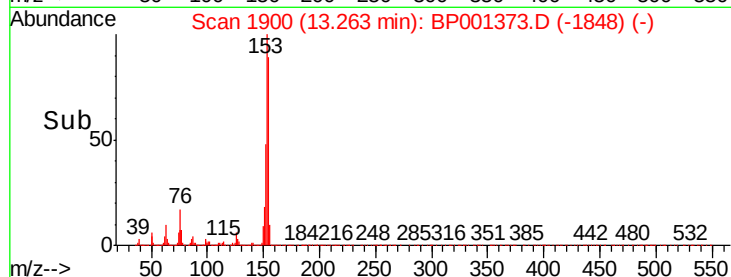
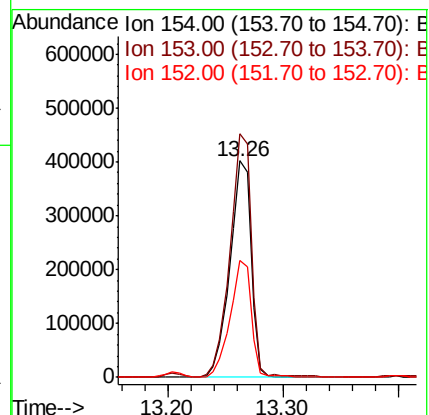
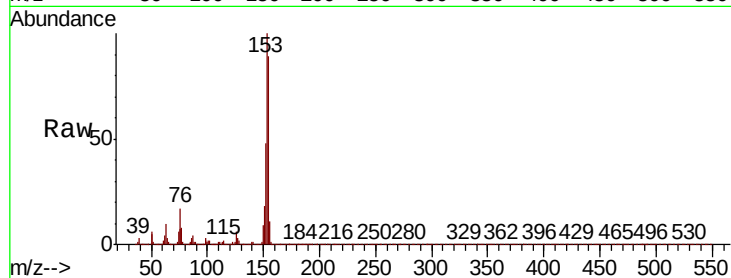
Tot Ion:154 Resp: 511945

Ion Ratio Lower Upper

154 100

153 112.4 90.6 135.8

152 54.1 42.4 63.6



#58

Fluorene

Concen: 20.152 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.00 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

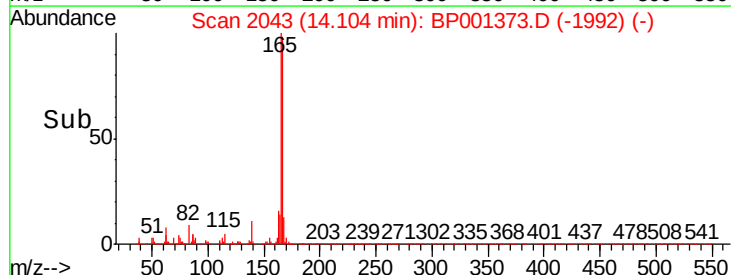
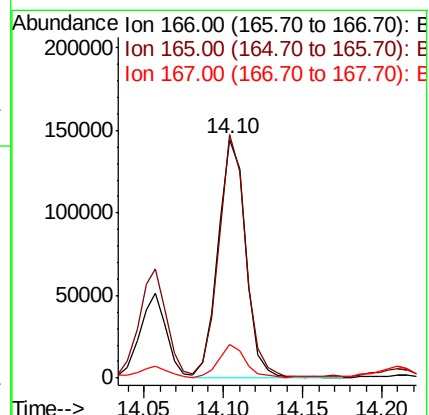
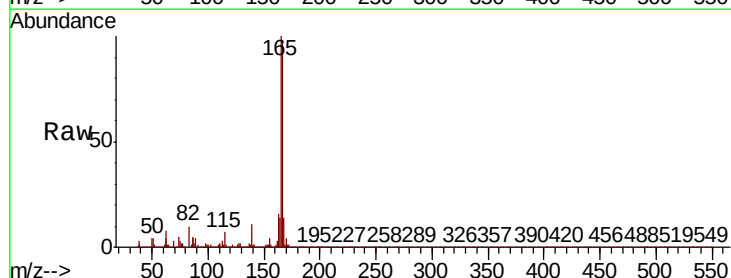
Tgt Ion:166 Resp: 173820

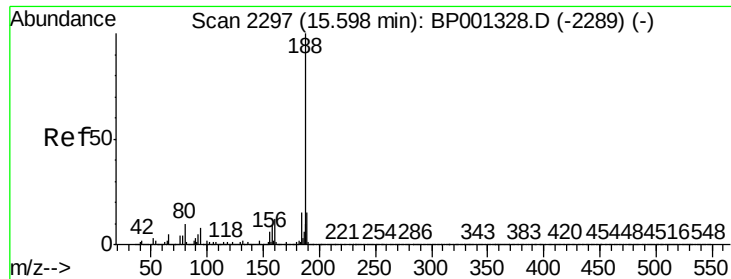
Ion Ratio Lower Upper

166 100

165 102.0 76.9 115.3

167 13.9 10.3 15.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 15.60 min Scan# 2298

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Instrument :

BNA\_P

ClientSampleId :

MW-14

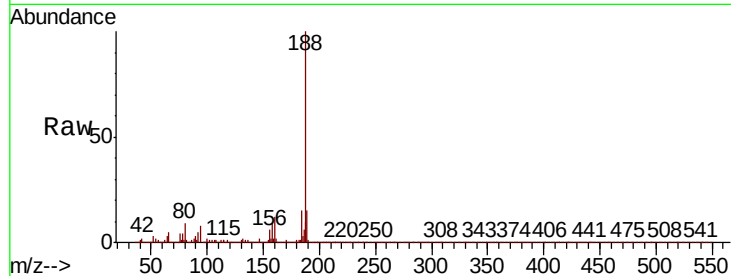
Tot Ion:188 Resp: 214437

Ion Ratio Lower Upper

188 100

94 8.3 6.6 10.0

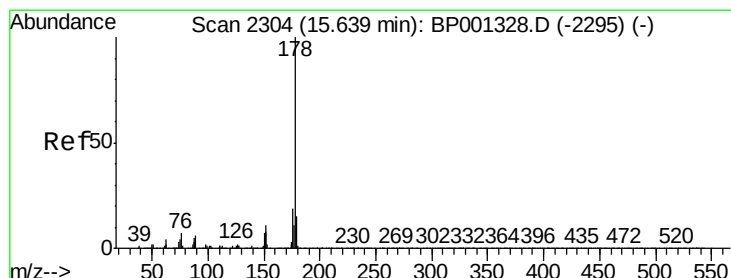
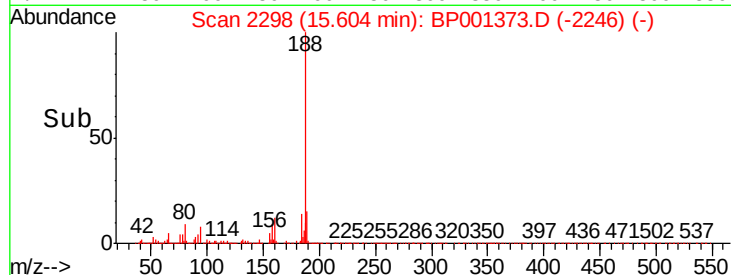
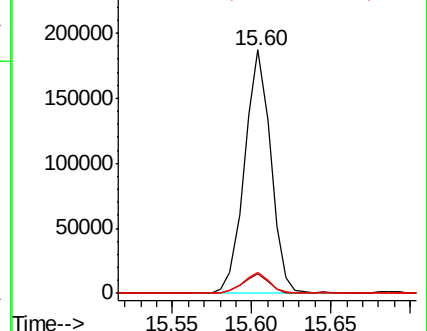
80 8.6 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BPO

Ion 80.00 (79.70 to 80.70): BPO



#71

Phenanthrene

Concen: 31.759 ng

RT: 15.64 min Scan# 2304

Delta R.T. -0.00 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

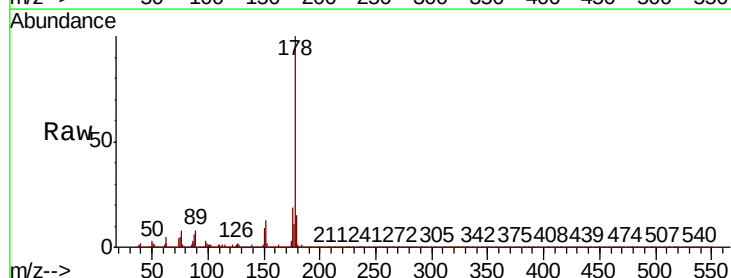
Tgt Ion:178 Resp: 388550

Ion Ratio Lower Upper

178 100

176 19.5 15.2 22.8

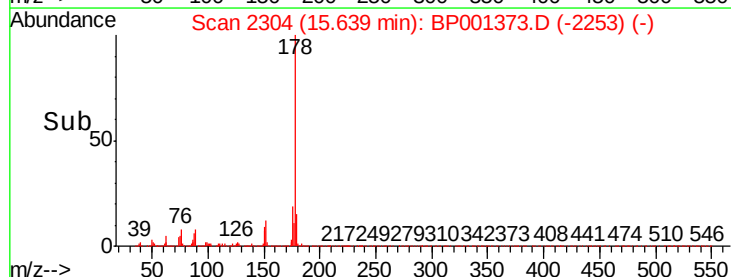
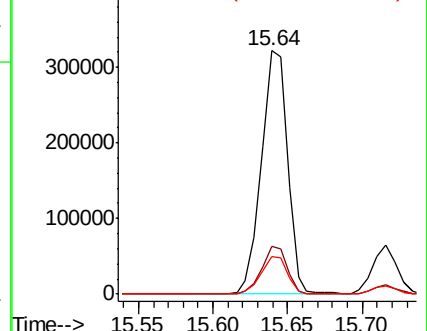
179 15.2 12.0 18.0

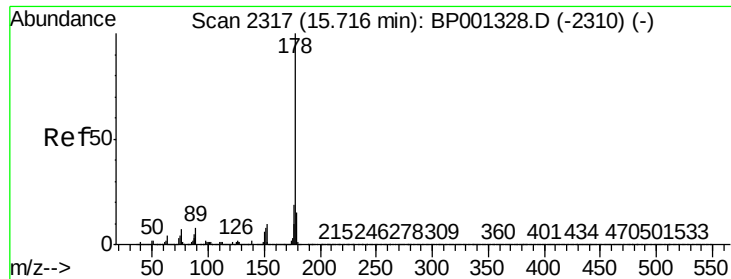


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 5.942 ng

RT: 15.72 min Scan# 2317

Delta R.T. -0.00 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Instrument :

BNA\_P

ClientSampleId :

MW-14

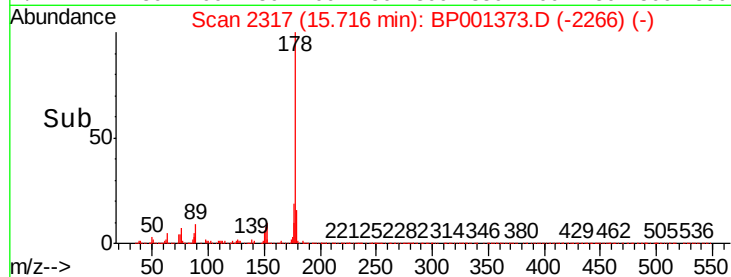
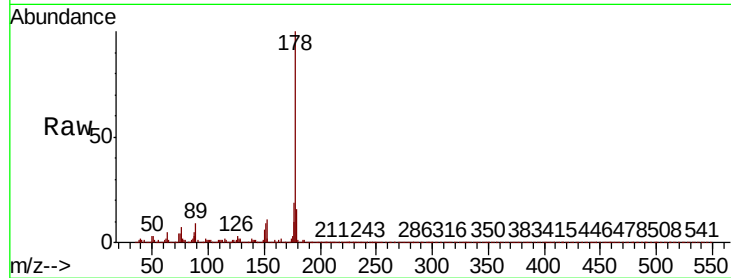
Tot Ion:178 Resp: 71960

Ion Ratio Lower Upper

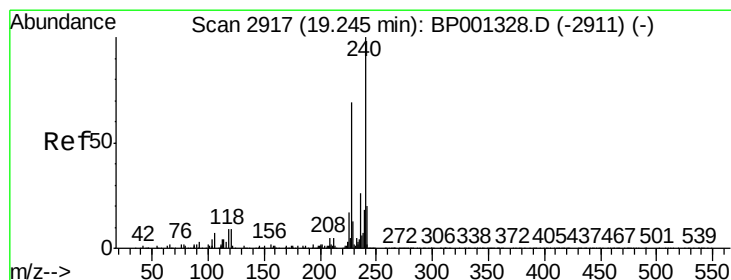
178 100

176 19.3 15.0 22.6

179 16.4 11.9 17.9



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

RT: 19.25 min Scan# 2918

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

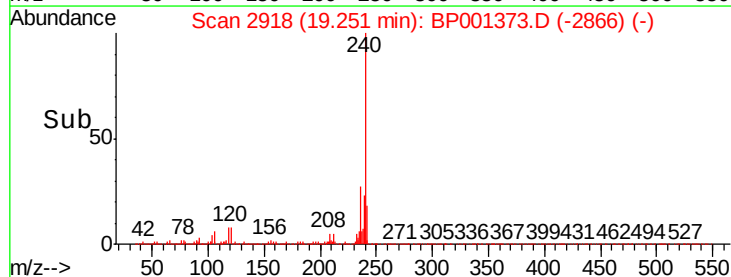
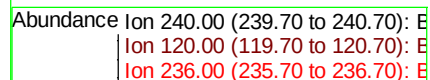
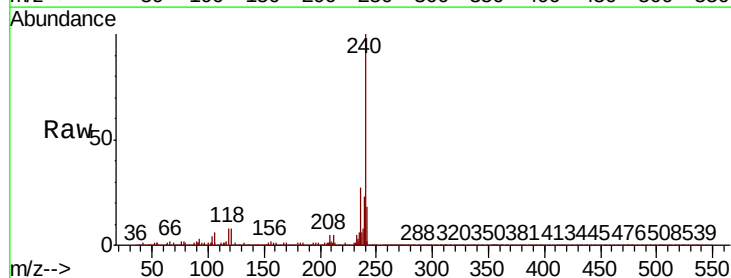
Tgt Ion:240 Resp: 156331

Ion Ratio Lower Upper

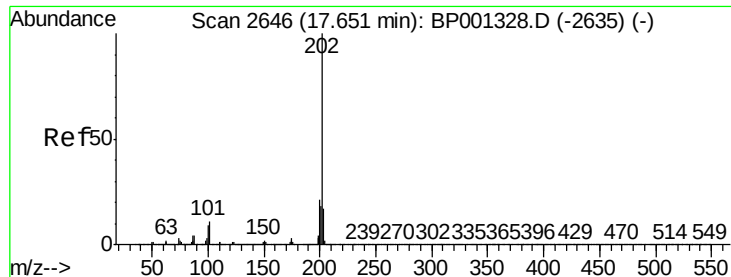
240 100

120 7.9 7.6 11.4

236 26.7 21.0 31.4



Time-->



#78

Pvrene

Concen: 3.000 ng

RT: 17.66 min Scan# 2647

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

Instrument :

BNA\_P

ClientSampleId :

MW-14

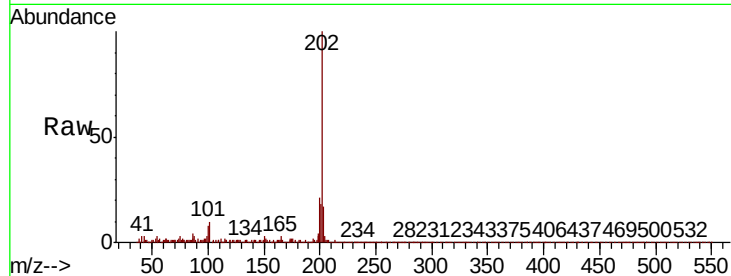
Tot Ion:202 Resp: 36416

Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

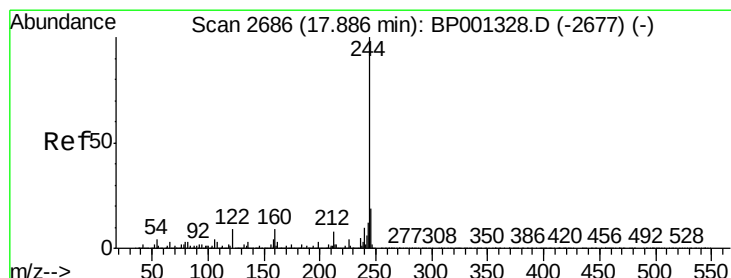
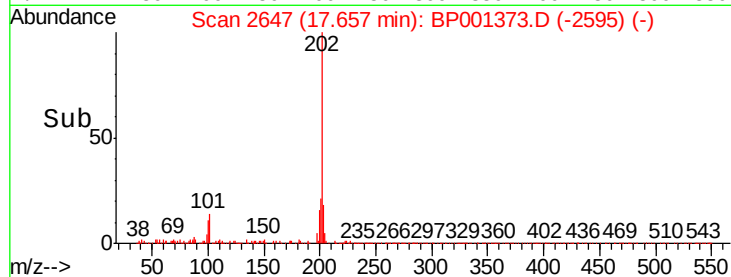
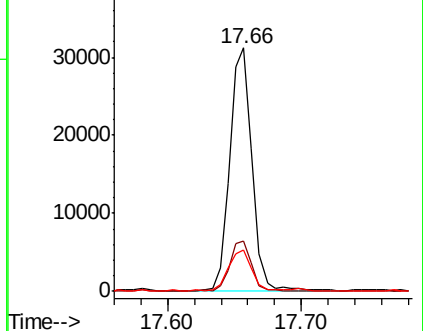
203 16.9 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 104.918 ng

RT: 17.89 min Scan# 2687

Delta R.T. 0.01 min

Lab File: BP001373.D

Acq: 23 Dec 2019 18:08

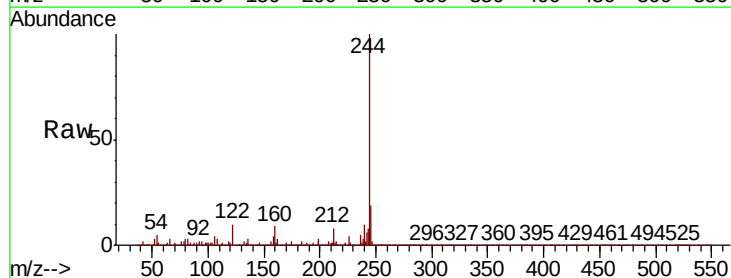
Tgt Ion:244 Resp: 957627

Ion Ratio Lower Upper

244 100

212 8.1 6.6 9.8

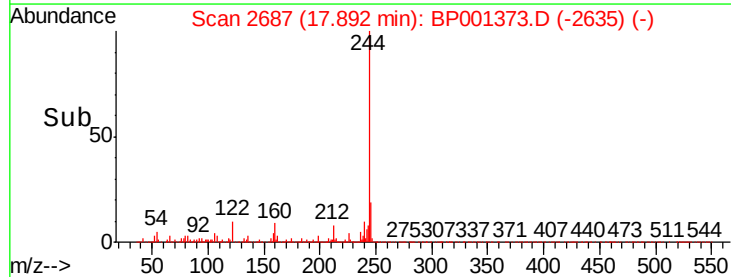
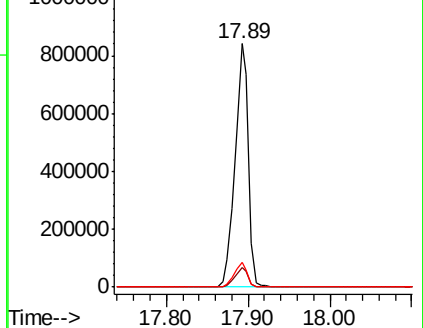
122 10.2 7.6 11.4

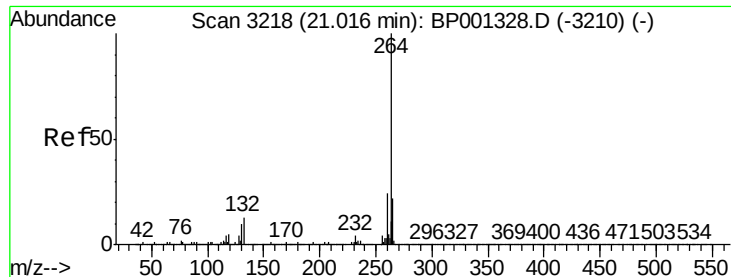


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

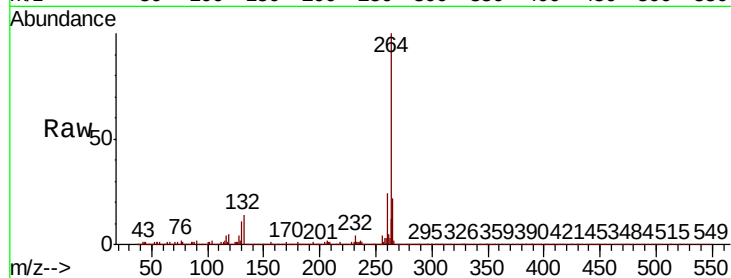




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 21.02 min Scan# 3219  
 Delta R.T. 0.01 min  
 Lab File: BP001373.D  
 Acq: 23 Dec 2019 18:08

Instrument :  
 BNA\_P  
 ClientSampleId :  
 MW-14

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 161592 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.7  | 19.2  | 28.8   |
| 265      | 21.9  | 17.4  | 26.2   |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

