

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
 Data File : BP000530.D  
 Acq On : 05 Oct 2019 00:25  
 Operator : JU  
 Sample : K5156-02  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Oct 05 01:08:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 01 18:03:42 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.77  | 152  | 229607   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.05  | 136  | 804308   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.81  | 164  | 333355   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.30 | 188  | 829951   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 606408   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.45 | 264  | 116401   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 1643850  | 115.08 | ng    | 0.01     |
| 7) Phenol-d6                | 6.42  | 99   | 1799190  | 104.53 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 1161555  | 88.20  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.61 | 330  | 714580   | 201.16 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.13  | 172  | 2582539  | 125.35 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 3196463  | 106.73 | ng    | 0.00     |

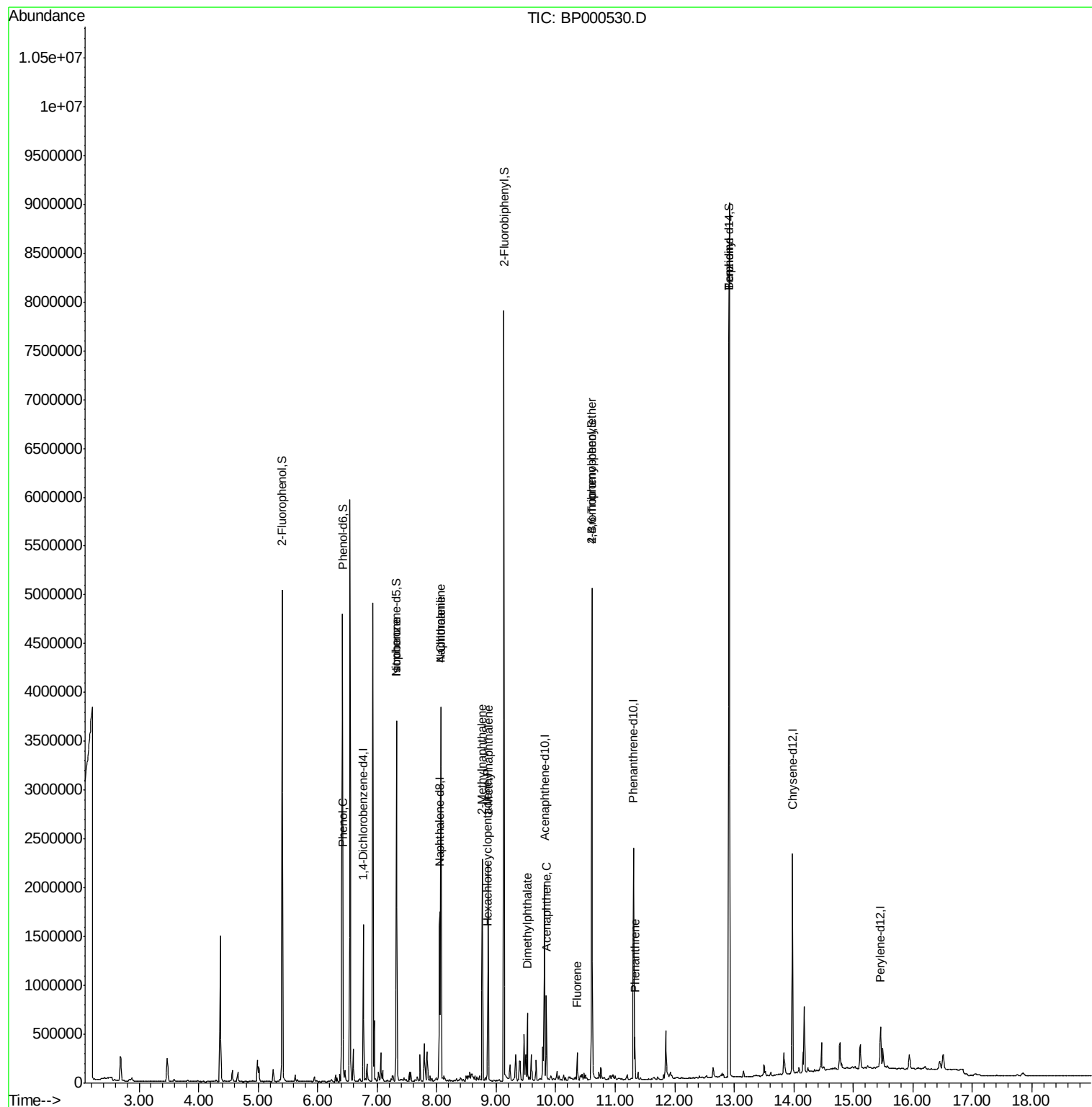
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                    | 6.43  | 94   | 82873    | 4.702  | ng    | 89     |
| 25) Isophorone                | 7.33  | 82   | 1161192  | 49.682 | ng    | # 61   |
| 31) Naphthalene               | 8.07  | 128  | 1692206  | 45.049 | ng    | 100    |
| 33) 4-Chloroaniline           | 8.07  | 127  | 224446   | 13.608 | ng    | # 33   |
| 37) 2-Methylnaphthalene       | 8.76  | 142  | 570267   | 22.614 | ng    | 100    |
| 38) 1-Methylnaphthalene       | 8.86  | 142  | 543135   | 22.795 | ng    | 98     |
| 41) Hexachlorocyclopentadiene | 8.85  | 237  | 44       | 7.307  | ng    | 87     |
| 50) Dimethylphthalate         | 9.52  | 163  | 260607   | 11.251 | ng    | 99     |
| 52) Acenaphthene              | 9.84  | 154  | 189070   | 10.618 | ng    | 100    |
| 58) Fluorene                  | 10.36 | 166  | 77037    | 4.061  | ng    | 99     |
| 67) 4-Bromophenyl-phenylether | 10.61 | 248  | 49537    | 5.302  | ng    | # 1    |
| 71) Phenanthrene              | 11.33 | 178  | 150145   | 3.602  | ng    | 100    |
| 77) Benzidine                 | 12.92 | 184  | 44671    | 2.544  | ng    | 96     |

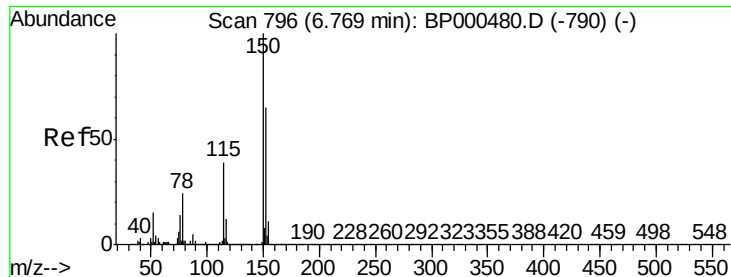
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
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Misc :  
ALS Vial : 24 Sample Multiplier: 1

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BNA\_P  
ClientSampleId :

Quant Time: Oct 05 01:08:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 01 18:03:42 2019  
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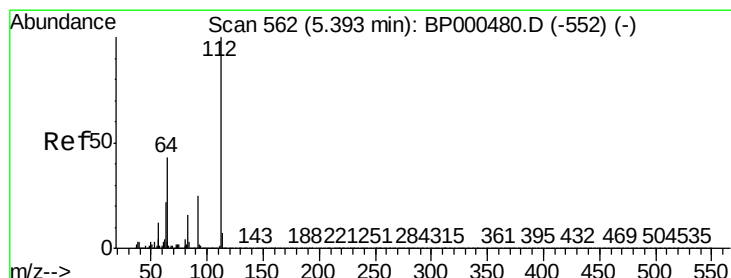
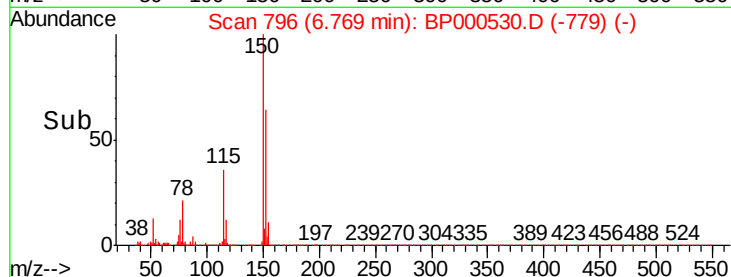
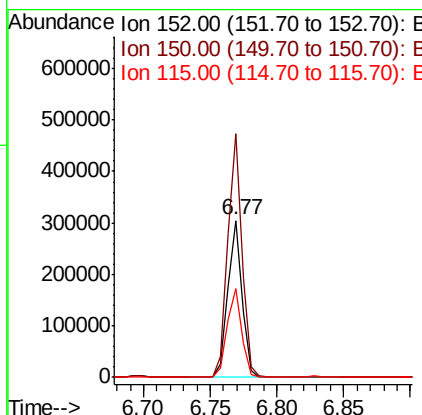
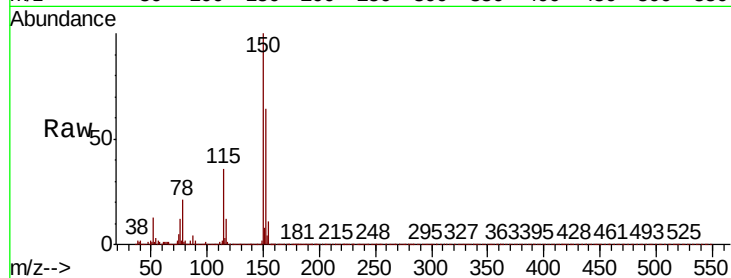


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. -0.00 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

Instrument :  
BNA\_P  
ClientSampleId :

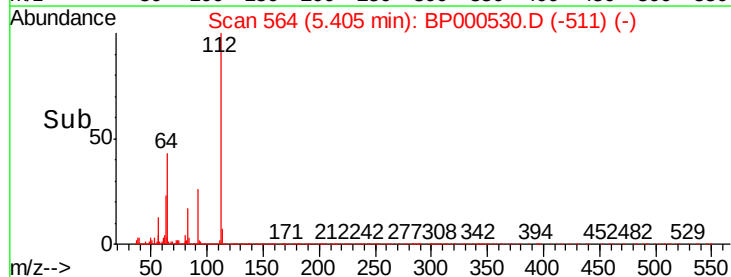
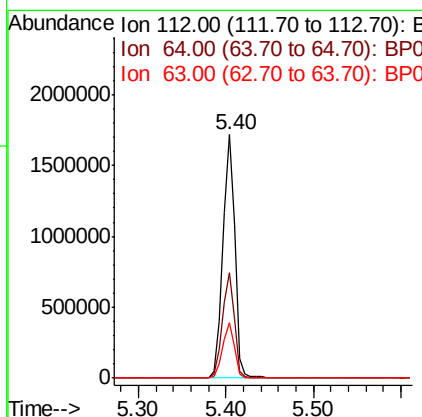
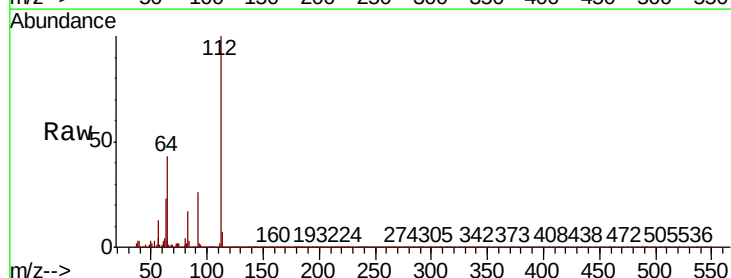
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 124.1 | 186.1 |
| 115     | 56.5  | 48.7  | 73.1  |

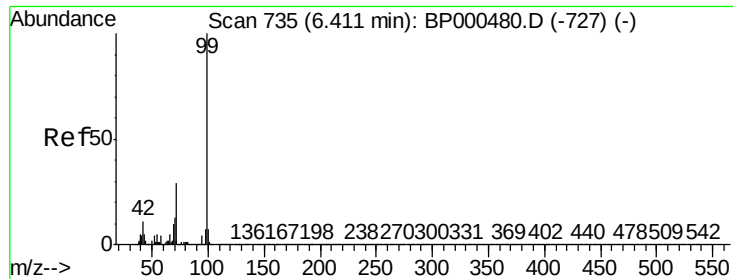


#5

2-Fluorophenol  
Concen: 115.083 ng  
RT: 5.40 min Scan# 564  
Delta R.T. 0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 43.4  | 34.2  | 51.4  |
| 63      | 22.6  | 17.9  | 26.9  |





#7

Phenol-d6

Concen: 104.526 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

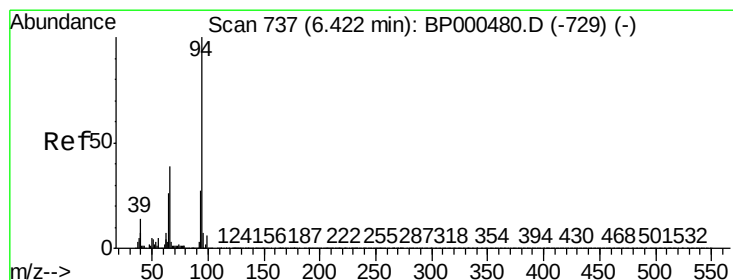
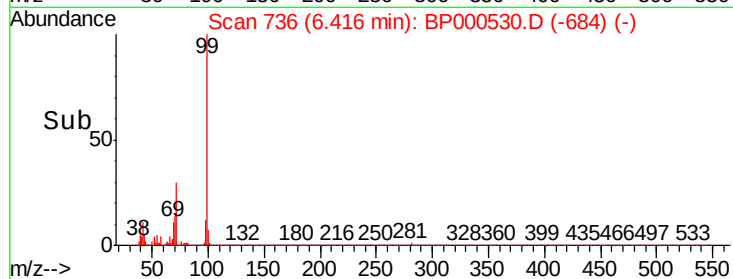
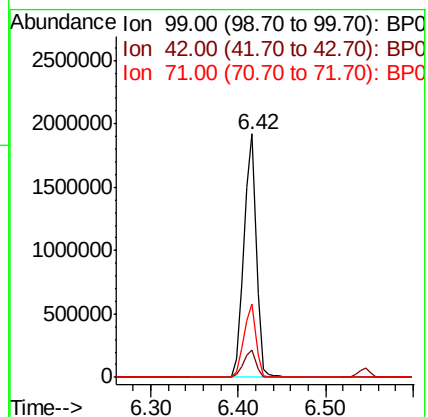
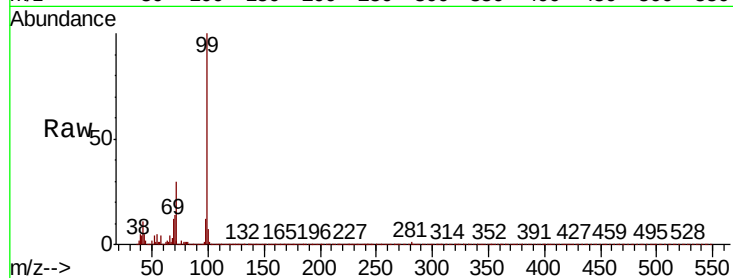
Instrument :

BNA\_P

ClientSampled :

Tot Ion: 99 Resp: 1799190

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 11.0  | 8.6   | 12.8  |
| 71  | 30.0  | 23.0  | 34.4  |



#10

Phenol

Concen: 4.702 ng

RT: 6.43 min Scan# 738

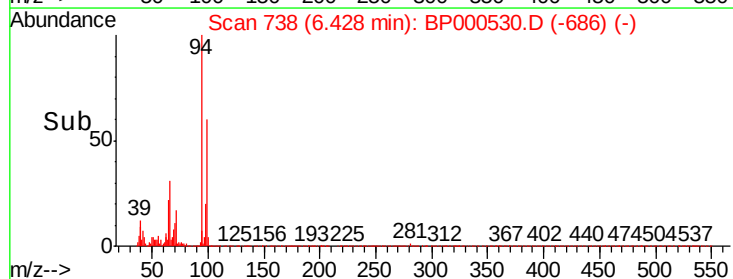
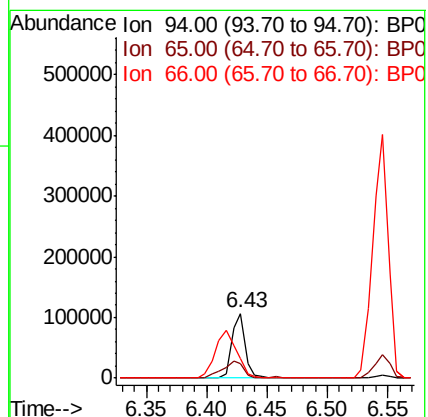
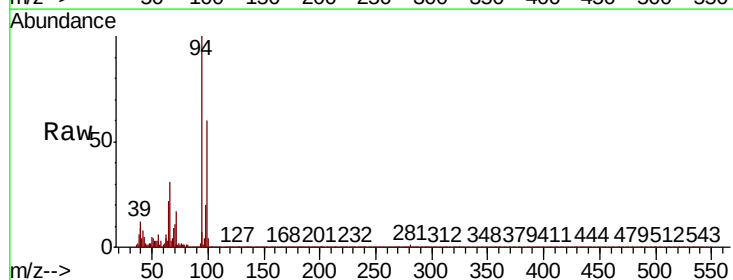
Delta R.T. 0.01 min

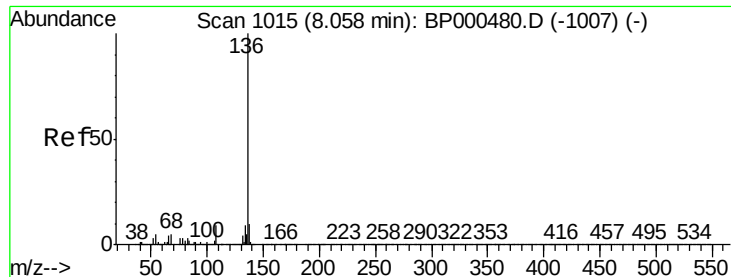
Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Tgt Ion: 94 Resp: 82873

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 21.9  | 5.9   | 45.9  |
| 66  | 31.2  | 18.8  | 58.8  |

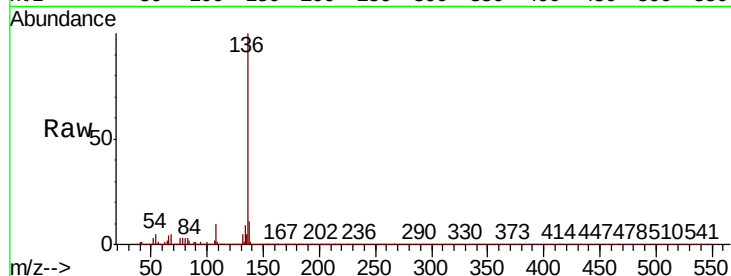




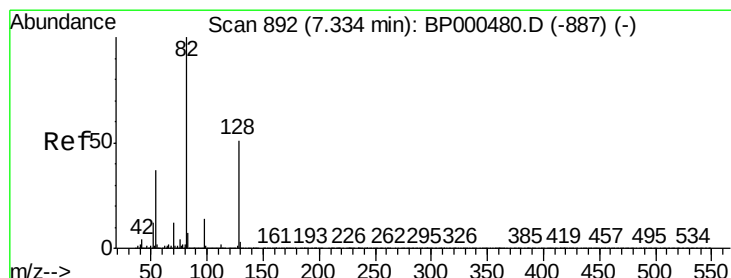
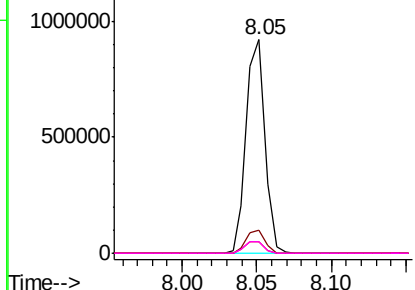
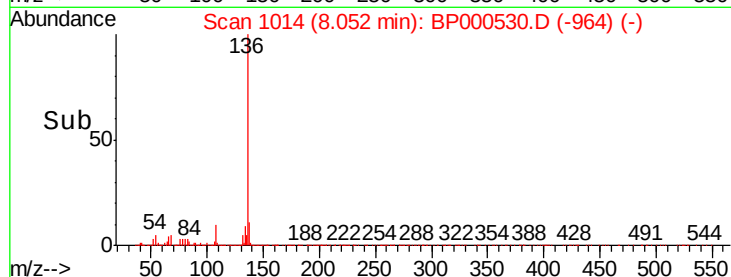
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.05 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

Instrument :  
BNA\_P  
ClientSampled :

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 804308 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 10.8    | 8.2   | 12.4   |  |
| 54 5.2      | 4.1   | 6.1    |  |
| 68 5.2      | 4.1   | 6.1    |  |

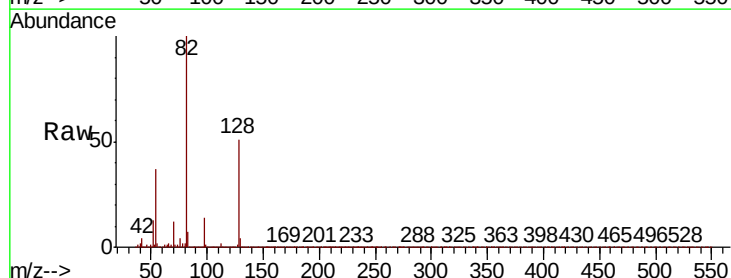


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BP0  
Ion 68.00 (67.70 to 68.70): BP0

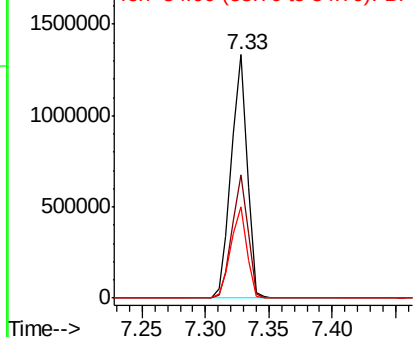
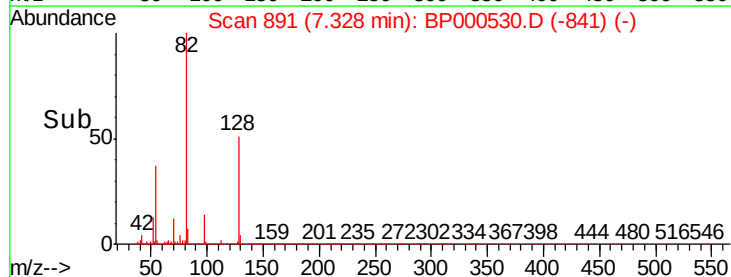


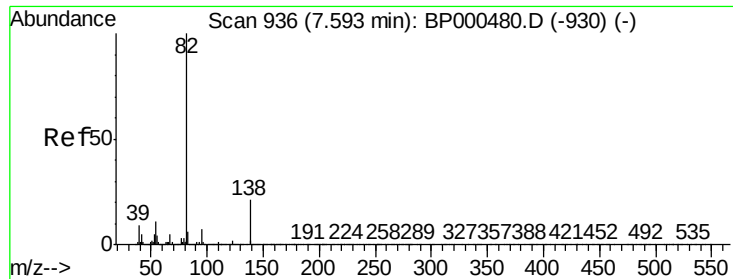
#23  
Nitrobenzene-d5  
Concen: 88.203 ng  
RT: 7.33 min Scan# 891  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

|     |         |               |       |
|-----|---------|---------------|-------|
| Tgt | Ion: 82 | Resp: 1161555 |       |
| Ion | Ratio   | Lower         | Upper |
| 82  | 100     |               |       |
| 128 | 50.9    | 40.9          | 61.3  |
| 54  | 37.3    | 29.4          | 44.2  |



Abundance Ion 82.00 (81.70 to 82.70): BP0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BP0





#25

Isophorone

Concen: 49.682 ng

RT: 7.33 min Scan# 891

Delta R.T. -0.26 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Instrument :

BNA\_P

ClientSampleId :

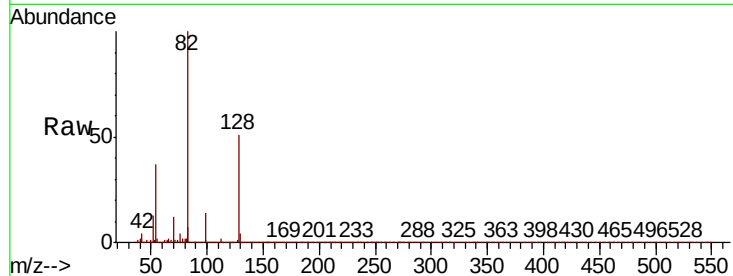
Tot Ion: 82 Resp: 1161192

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

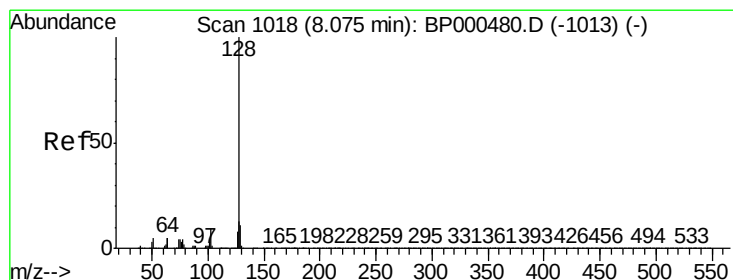
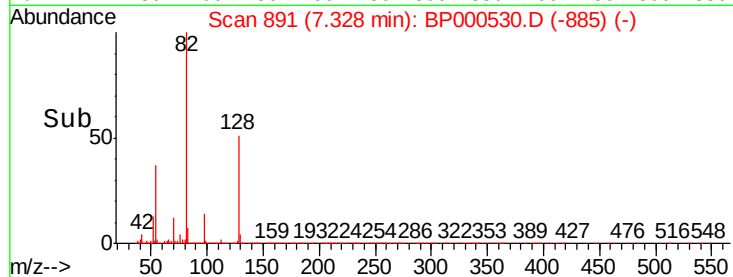
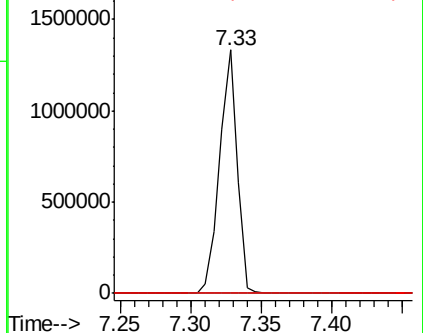
138 0.0 17.0 25.4#



Abundance Ion 82.00 (81.70 to 82.70): BP0

Ion 95.00 (94.70 to 95.70): BP0

Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 45.049 ng

RT: 8.07 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

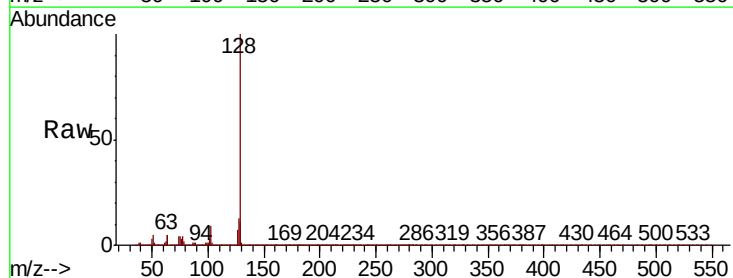
Tgt Ion: 128 Resp: 1692206

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

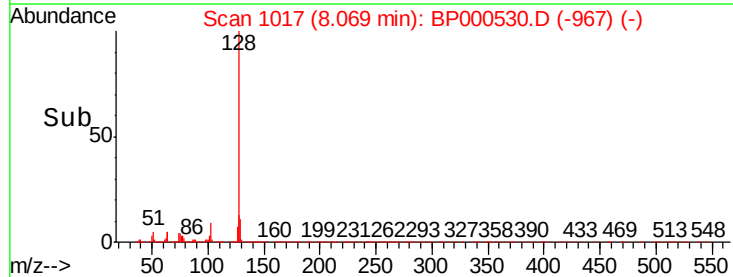
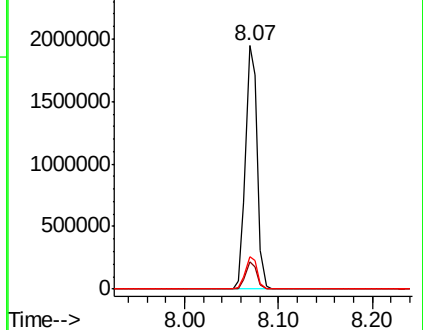
127 13.3 10.5 15.7

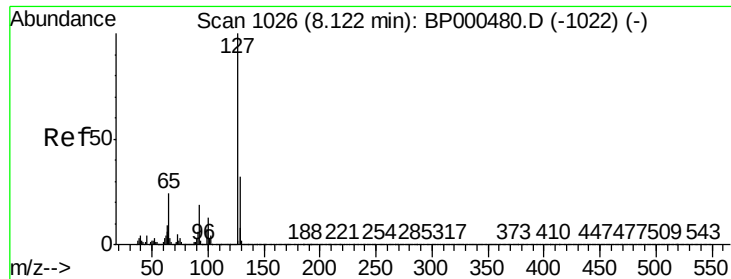


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

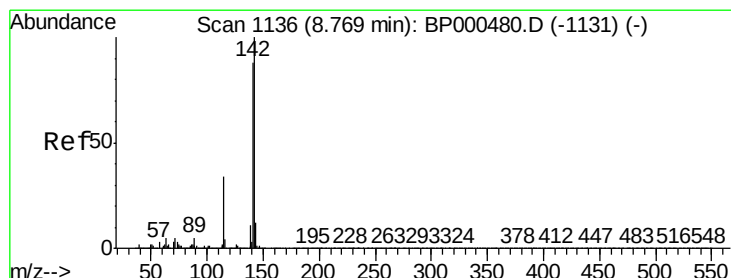
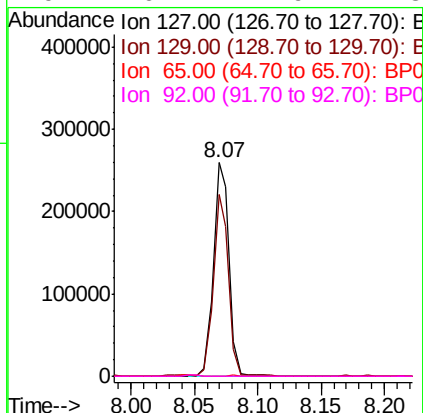
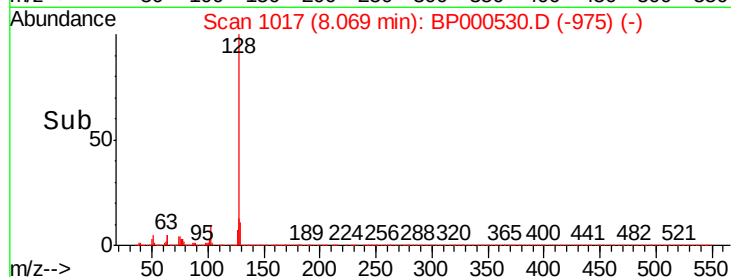
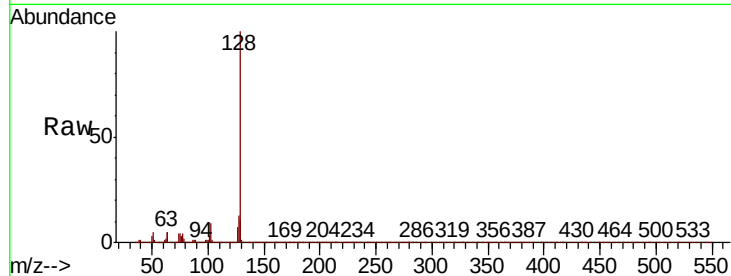




#33  
4-Chloroaniline  
Concen: 13.608 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.05 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

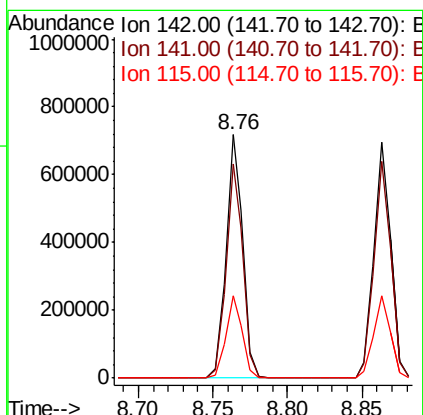
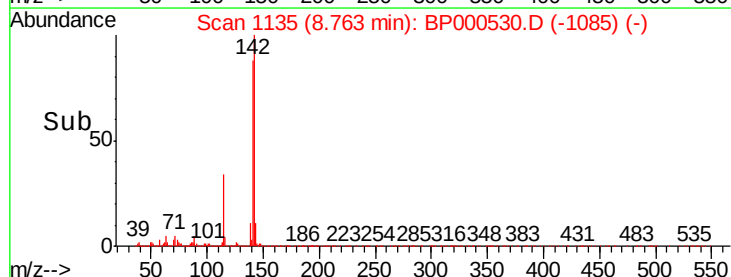
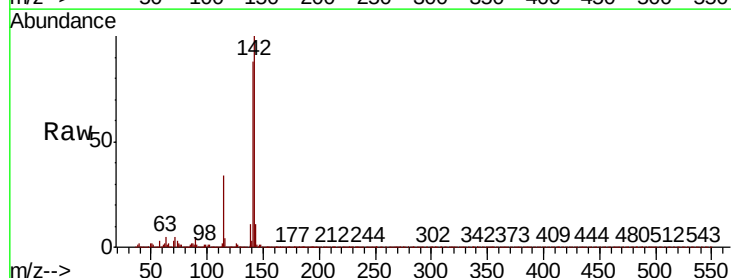
Instrument :  
BNA\_P  
ClientSampleId :

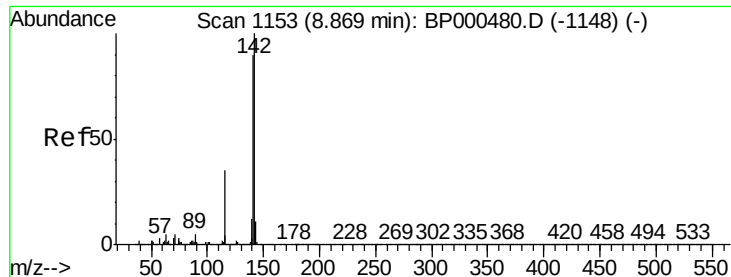
|             |       |            |
|-------------|-------|------------|
| Tot Ion:127 | Resp: | 224446     |
| Ion Ratio   | Lower | Upper      |
| 127         | 100   |            |
| 129         | 85.3  | 25.6 38.4# |
| 65          | 0.0   | 19.2 28.8# |
| 92          | 0.1   | 14.9 22.3# |



#37  
2-Methylnaphthalene  
Concen: 22.614 ng  
RT: 8.76 min Scan# 1135  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 570267     |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 88.0  | 70.6 106.0 |
| 115         | 33.8  | 27.4 41.0  |

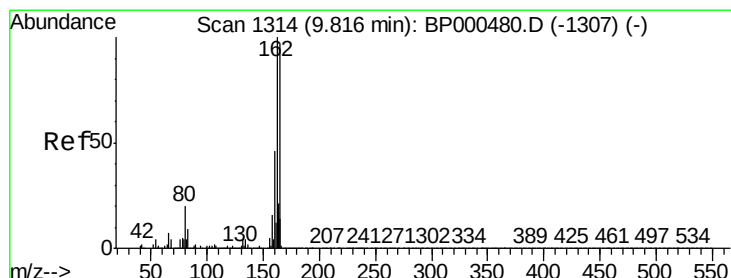
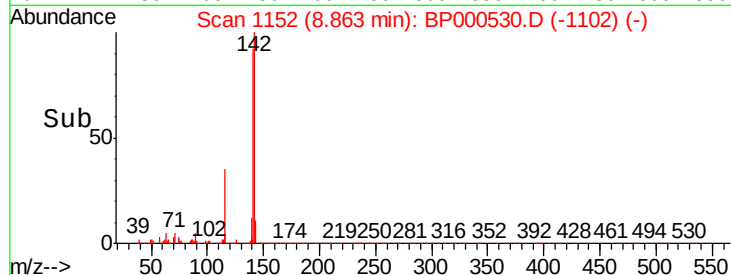
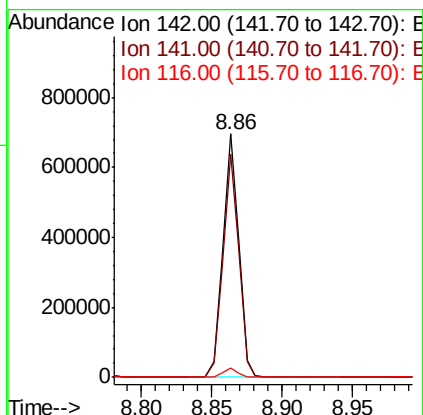
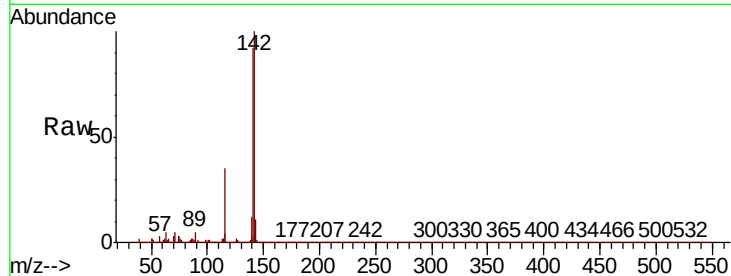




#38  
1-Methylnaphthalene  
Concen: 22.795 ng  
RT: 8.86 min Scan# 1152  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

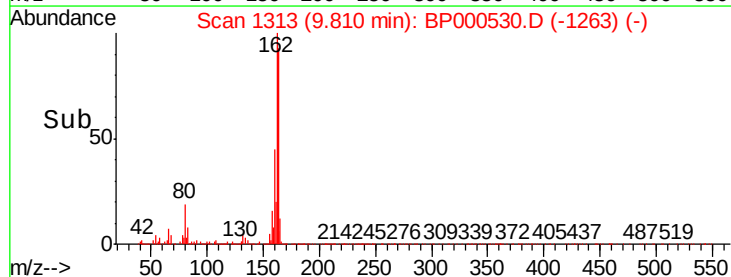
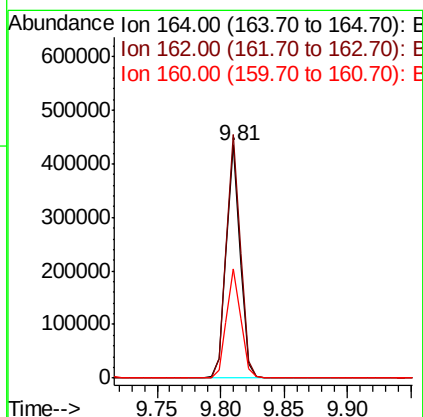
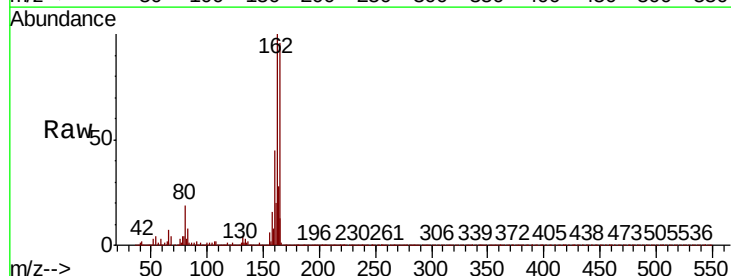
Instrument :  
BNA\_P  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.9  | 71.9  | 107.9 |
| 116     | 3.7   | 3.0   | 4.4   |

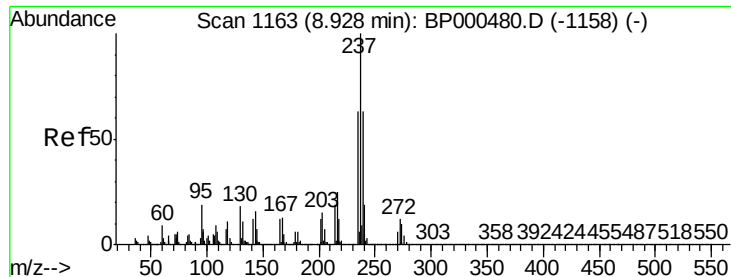


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.81 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.6 | 82.2  | 123.2 |
| 160     | 47.1  | 37.6  | 56.4  |







#41

Hexachlorocyclopentadiene

Concen: 7.307 ng

RT: 8.85 min Scan# 1150

Delta R.T. -0.08 min

Lab File: BP000530.D

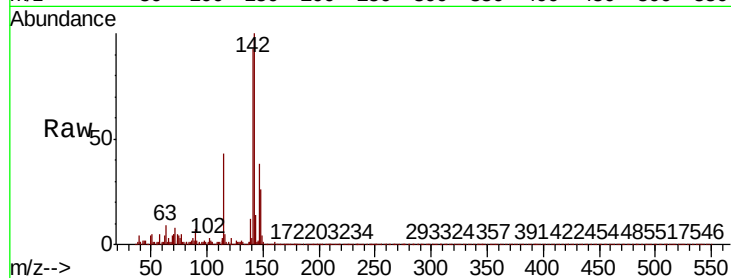
Acq: 05 Oct 2019 00:25

Instrument :

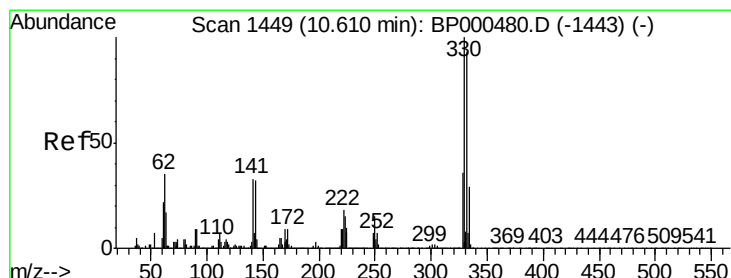
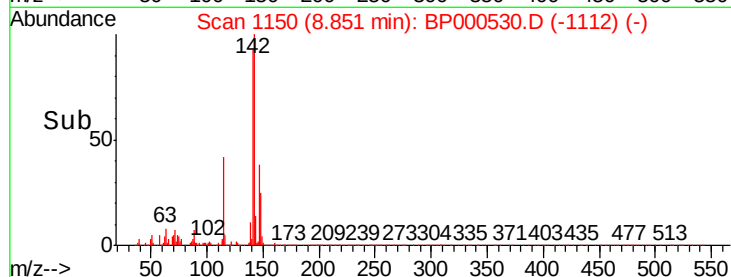
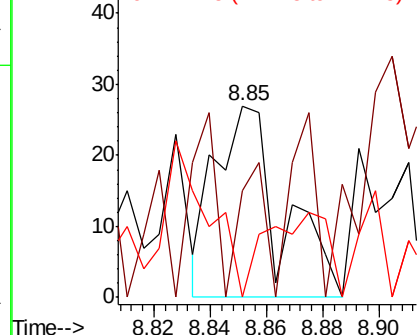
BNA\_P

ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 237   | Resp: | 44    |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 55.6  | 42.9  | 82.9  |
| 272      | 0.0   | 0.0   | 32.4  |



Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 201.160 ng

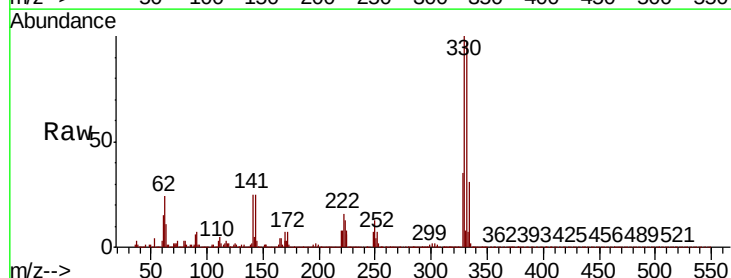
RT: 10.61 min Scan# 1449

Delta R.T. -0.00 min

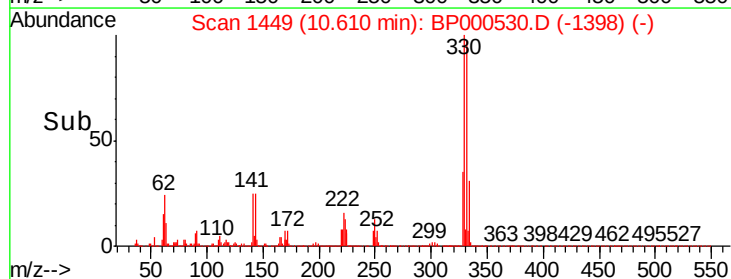
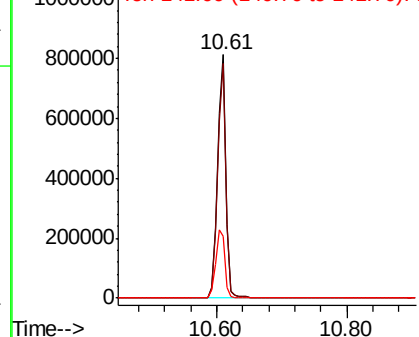
Lab File: BP000530.D

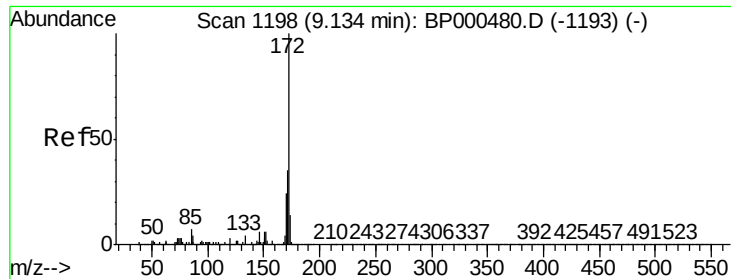
Acq: 05 Oct 2019 00:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 330   | Resp: | 714580 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 96.4  | 77.1  | 115.7  |
| 141      | 31.0  | 26.0  | 39.0   |



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

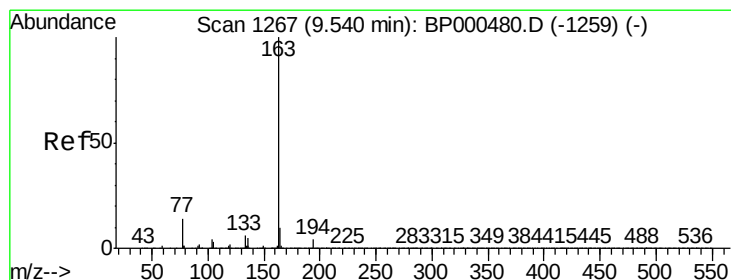
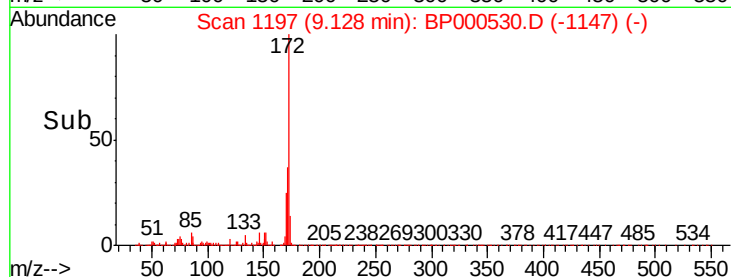
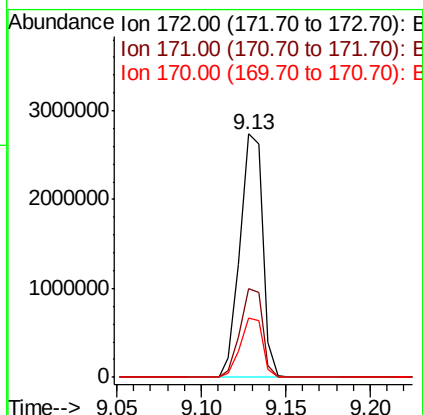
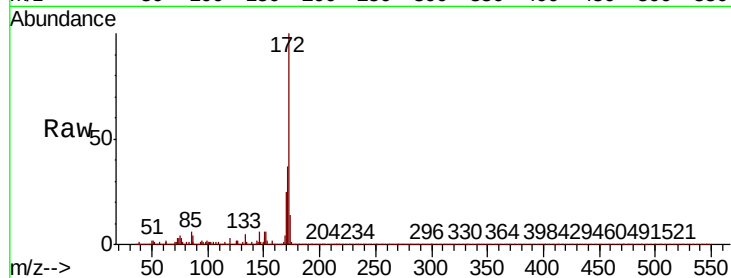




#45  
2-Fluorobiphenyl  
Concen: 125.348 ng  
RT: 9.13 min Scan# 1197  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

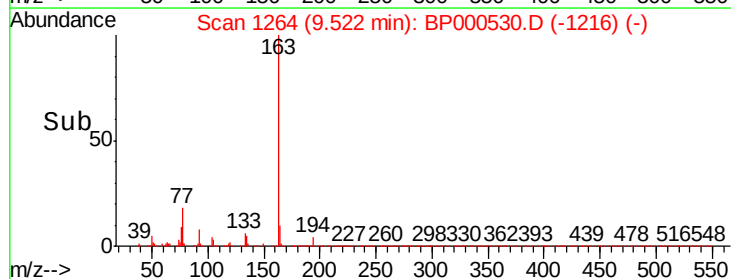
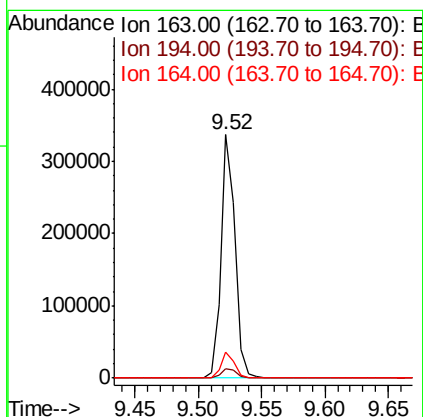
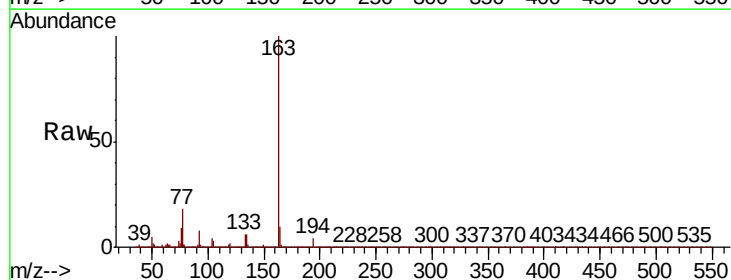
Instrument :  
BNA\_P  
ClientSampleId :

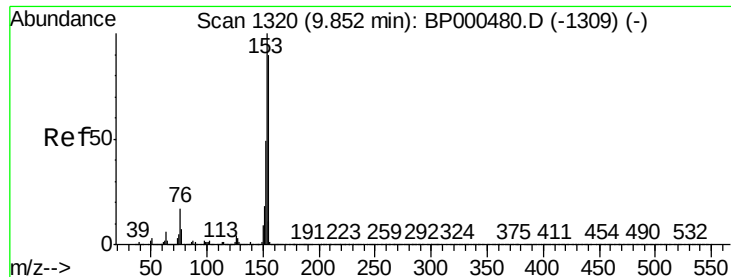
Tot Ion:172 Resp: 2582539  
Ion Ratio Lower Upper  
172 100  
171 36.6 28.4 42.6  
170 24.5 19.1 28.7



#50  
Dimethylphthalate  
Concen: 11.251 ng  
RT: 9.52 min Scan# 1264  
Delta R.T. -0.02 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

Tgt Ion:163 Resp: 260607  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.4 5.2  
164 10.4 8.0 12.0





#52

Acenaphthene

Concen: 10.618 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Instrument :

BNA\_P

ClientSampleId :

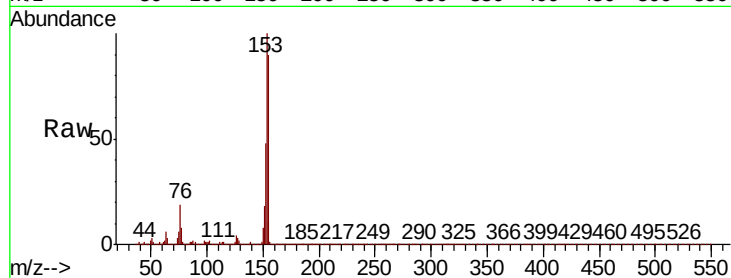
Tot Ion:154 Resp: 189070

Ion Ratio Lower Upper

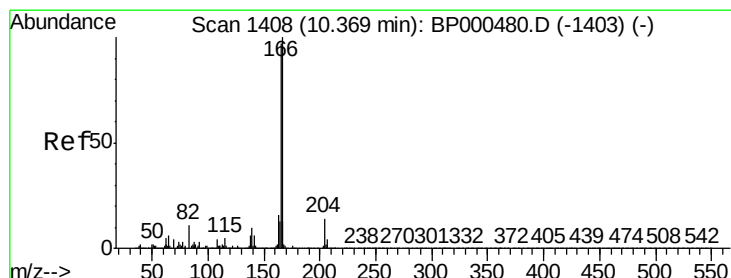
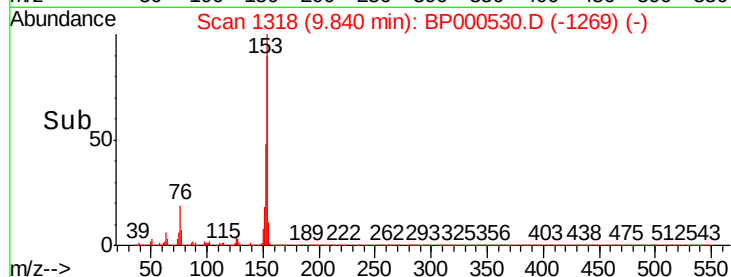
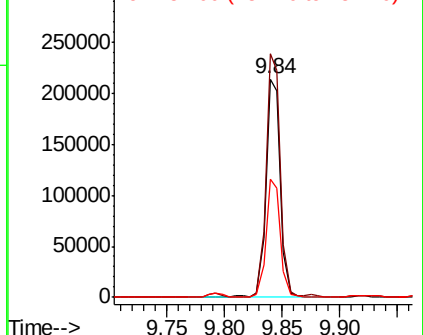
154 100

153 111.7 89.4 134.0

152 53.9 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 4.061 ng

RT: 10.36 min Scan# 1407

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

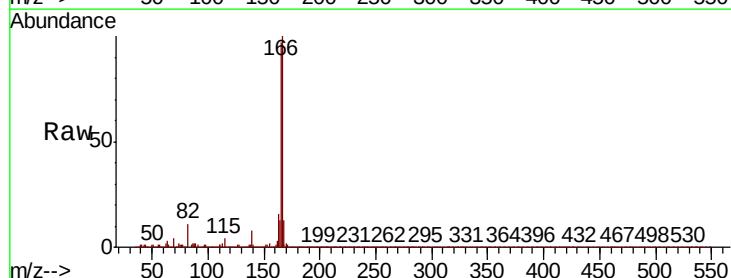
Tgt Ion:166 Resp: 77037

Ion Ratio Lower Upper

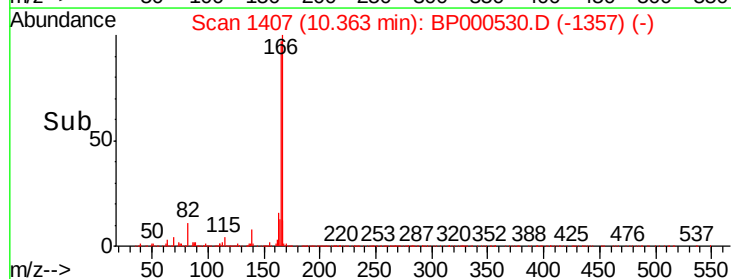
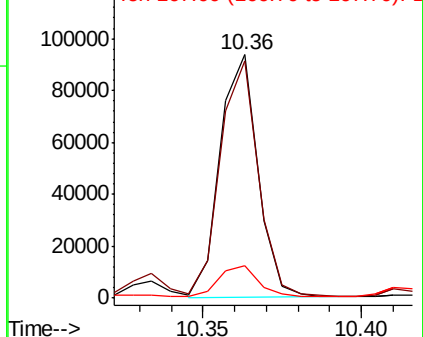
166 100

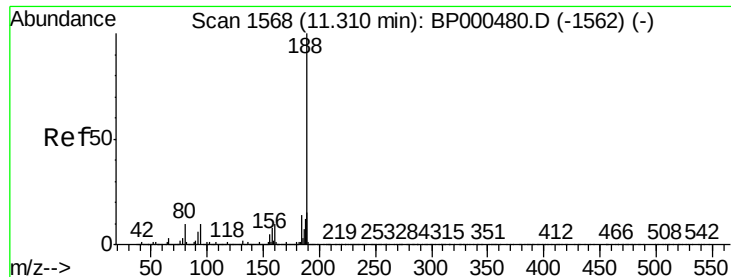
165 97.3 77.3 115.9

167 13.3 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Instrument :

BNA\_P

ClientSampleId :

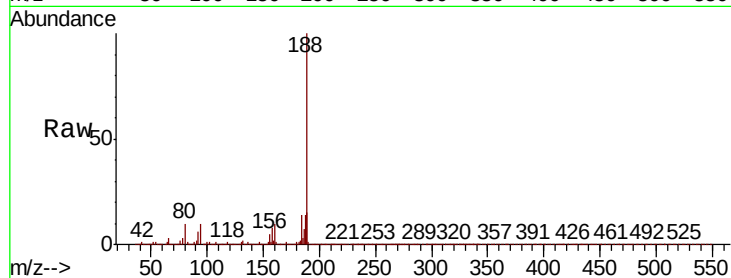
Tot Ion:188 Resp: 829951

Ion Ratio Lower Upper

188 100

94 10.4 8.2 12.2

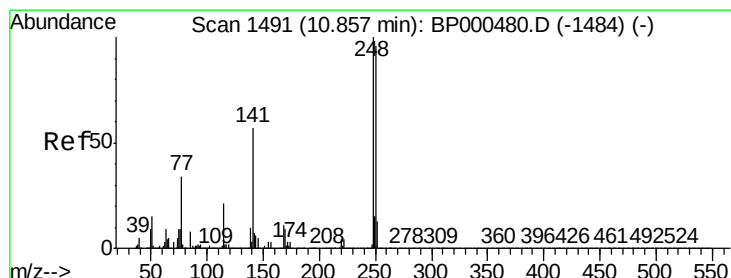
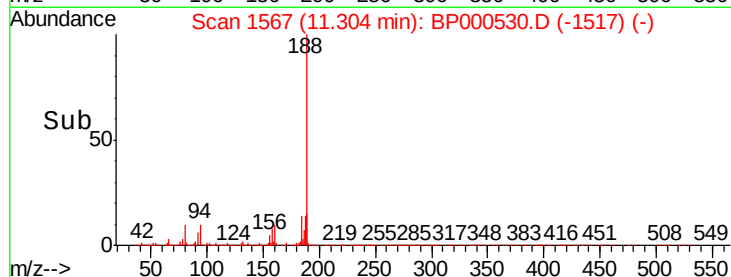
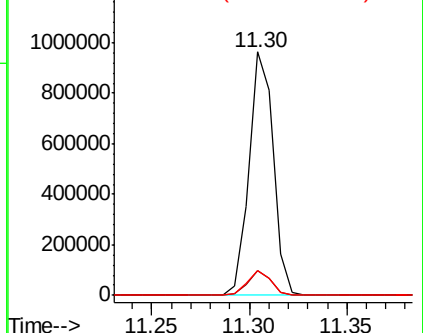
80 10.4 8.3 12.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BP0

Ion 80.00 (79.70 to 80.70): BP0



#67

4-Bromophenyl-phenylether

Concen: 5.302 ng

RT: 10.61 min Scan# 1449

Delta R.T. -0.25 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

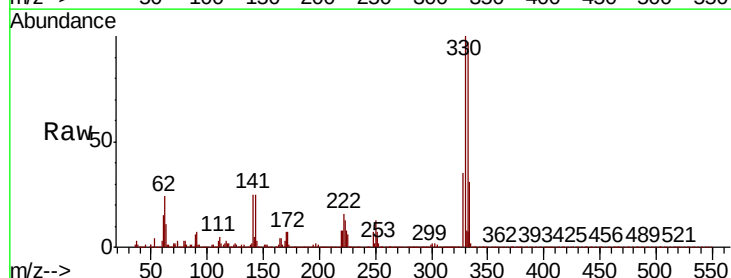
Tgt Ion:248 Resp: 49537

Ion Ratio Lower Upper

248 100

250 199.4 77.2 115.8#

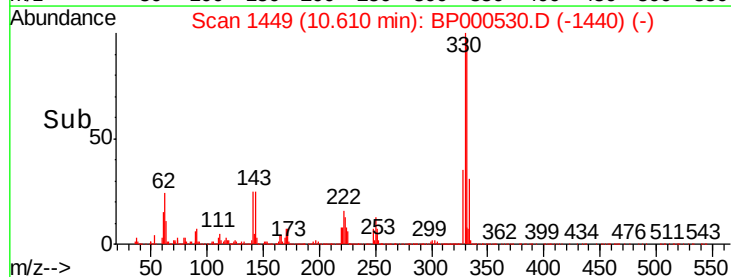
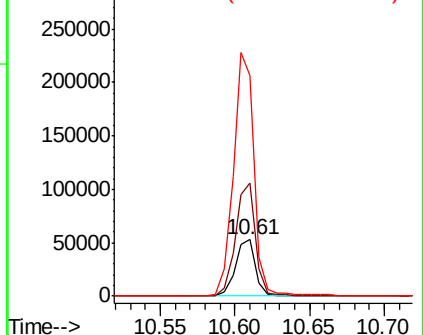
141 390.3 45.3 67.9#

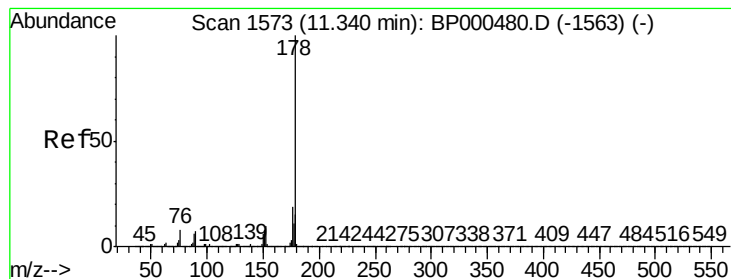


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 3.602 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Instrument :

BNA\_P

ClientSampled :

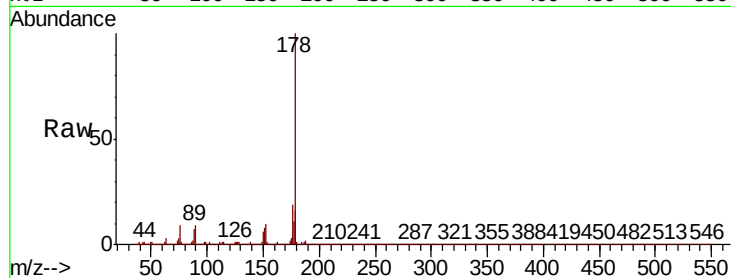
Tot Ion:178 Resp: 150145

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

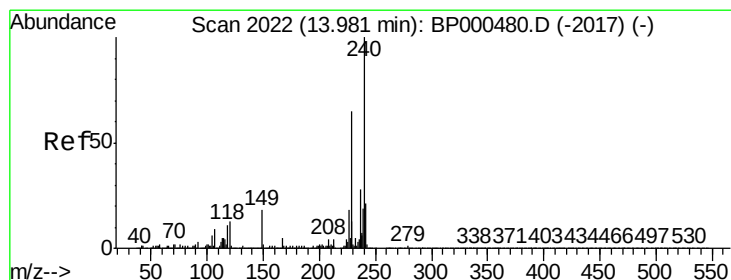
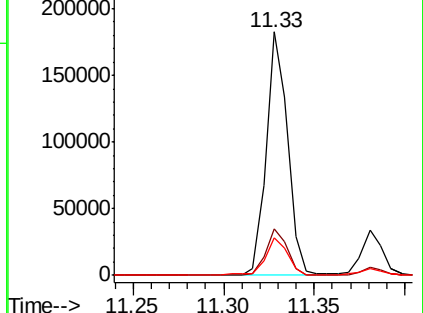
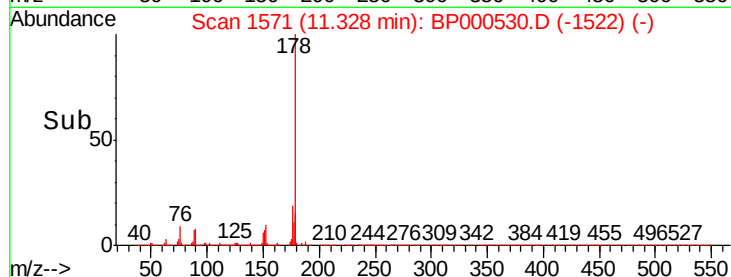
179 15.6 12.2 18.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

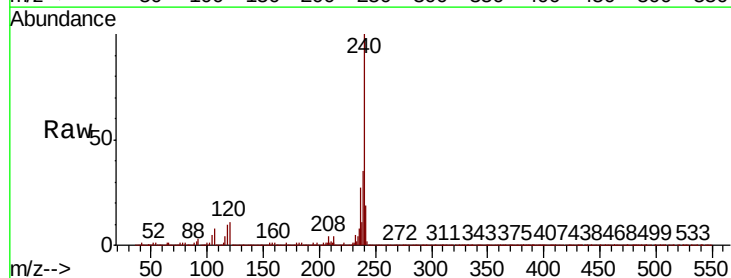
Tgt Ion:240 Resp: 606408

Ion Ratio Lower Upper

240 100

120 11.3 10.1 15.1

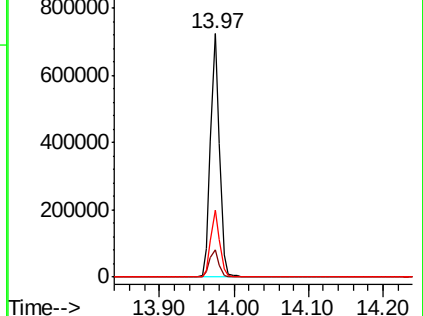
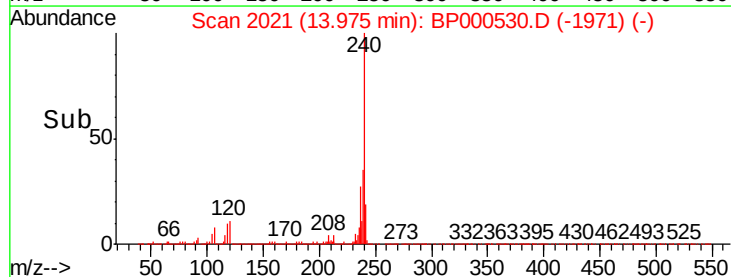
236 27.3 22.7 34.1

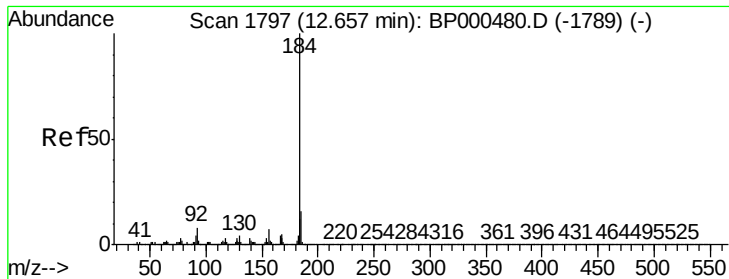


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.544 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.26 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

Instrument :

BNA\_P

ClientSampleId :

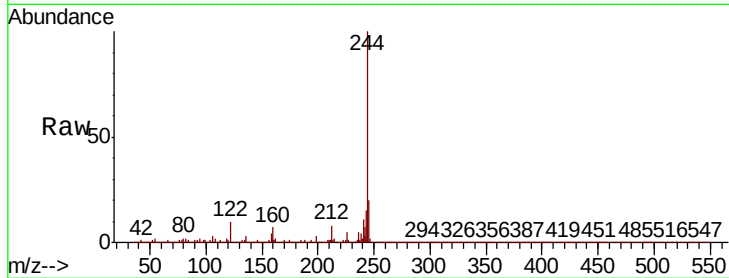
Tot Ion:184 Resp: 44671

Ion Ratio Lower Upper

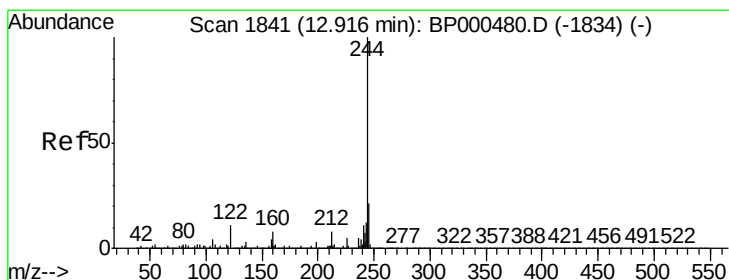
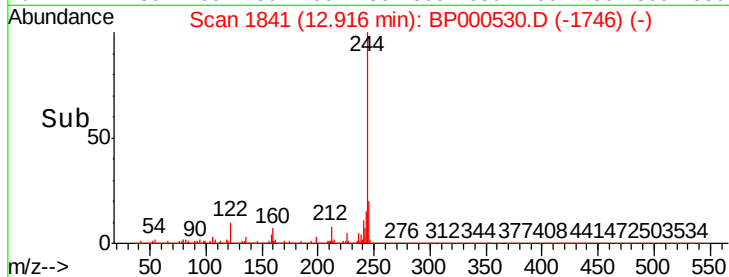
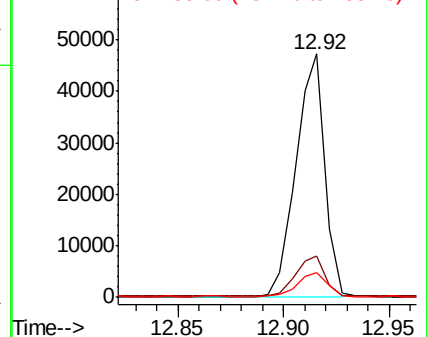
184 100

185 17.2 12.7 19.1

183 10.0 9.7 14.5



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 106.726 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BP000530.D

Acq: 05 Oct 2019 00:25

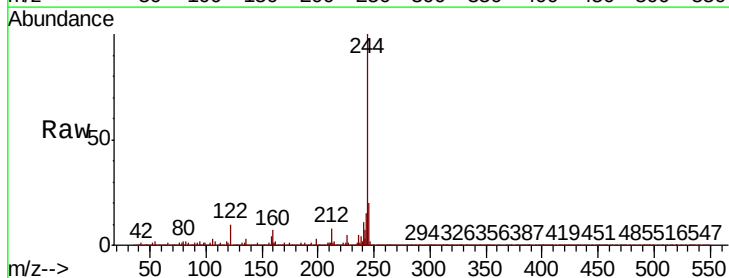
Tgt Ion:244 Resp: 3196463

Ion Ratio Lower Upper

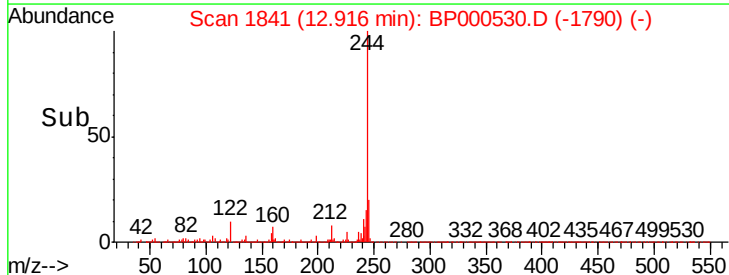
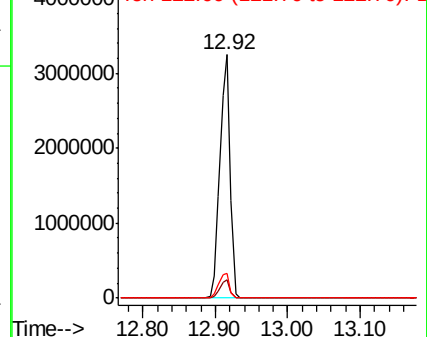
244 100

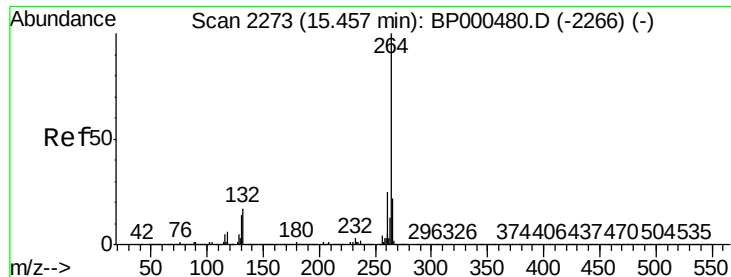
212 7.6 6.0 9.0

122 10.1 8.9 13.3



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

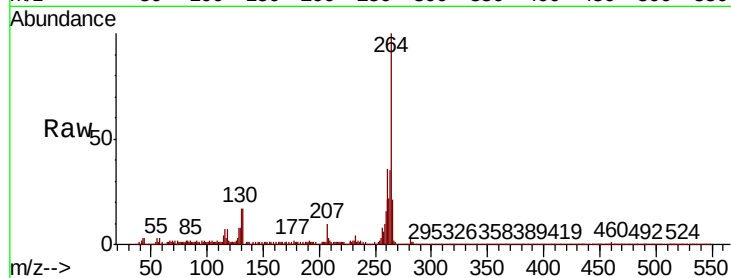




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BP000530.D  
Acq: 05 Oct 2019 00:25

Instrument :  
BNA\_P  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 35.9  | 20.3  | 30.5# |
| 265     | 21.3  | 18.0  | 27.0  |



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

