

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052915\  
 Data File : BF079596.D  
 Acq On : 30 May 2015 10:25  
 Operator : TP/IZ  
 Sample : G2416-16  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAMP440NB-TP5.3(1)

Quant Time: May 31 05:31:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 29 17:35:14 2015  
 Response via : Initial Calibration

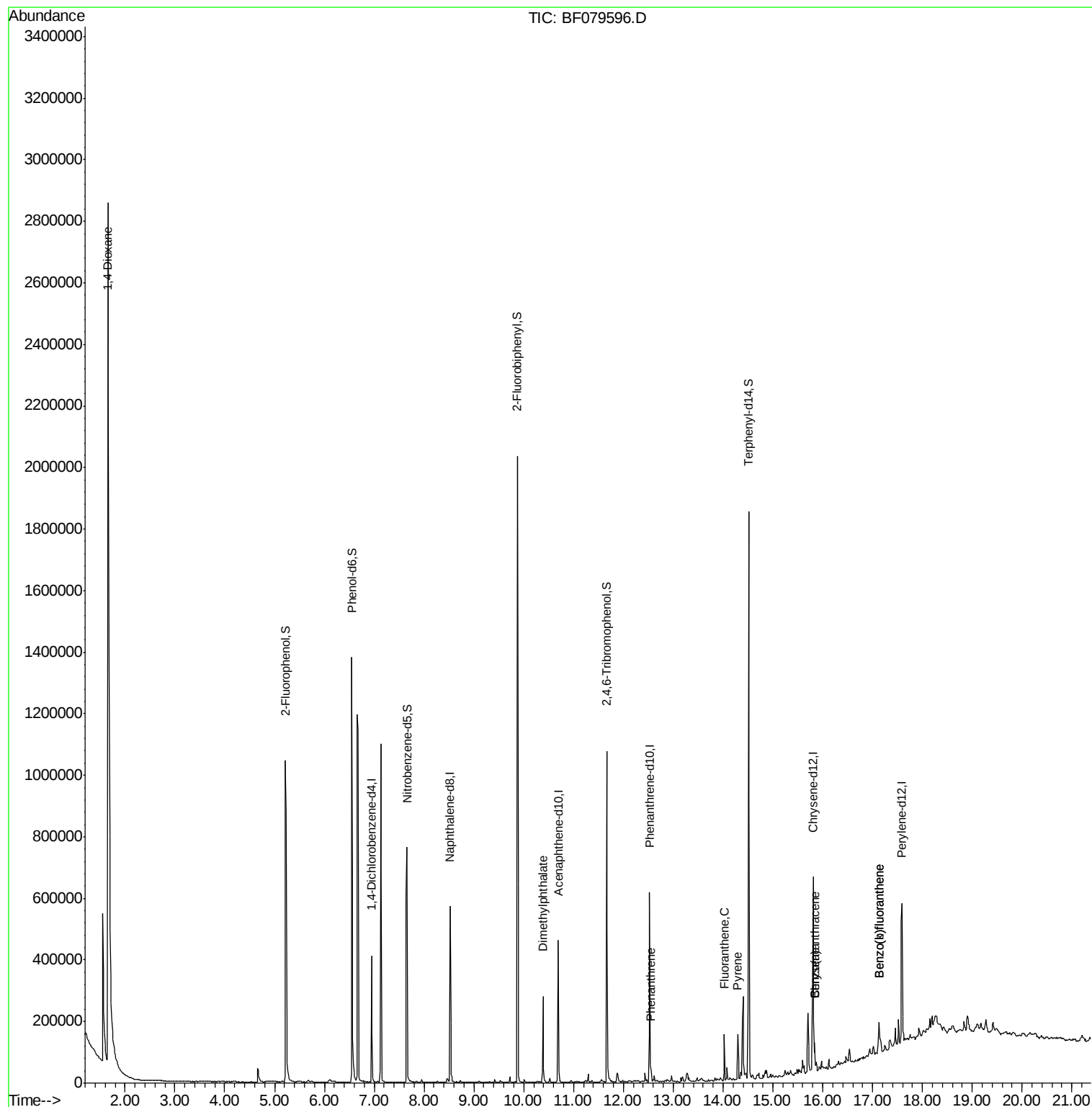
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.95  | 152  | 71224    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.52  | 136  | 284480   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.70 | 164  | 127282   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.53 | 188  | 238209   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12            | 15.81 | 240  | 240329   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12            | 17.59 | 264  | 253624   | 20.00     | ng    | -0.08    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.22  | 112  | 477337   | 116.24    | ng    | -0.01    |
| 7) Phenol-d6                | 6.55  | 99   | 617885   | 118.05    | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.66  | 82   | 354848   | 72.10     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.67 | 330  | 164515   | 117.68    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.87  | 172  | 682247   | 76.47     | ng    | -0.01    |
| 78) Terphenyl-d14           | 14.51 | 244  | 725866   | 70.88     | ng    | -0.02    |
| Target Compounds            |       |      |          |           |       |          |
| 2) 1,4-Dioxane              | 1.66  | 88   | 152607   | 78.12     | ng    | # 100    |
| 9) Benzaldehyde             | 6.55  | 77   | 696      | Below Cal |       | # 1      |
| 49) Dimethylphthalate       | 10.39 | 163  | 119716   | 12.77     | ng    | 99       |
| 70) Phenanthrene            | 12.55 | 178  | 26344    | 2.02      | ng    | 98       |
| 73) Di-n-butylphthalate     | 13.29 | 149  | 1944     | Below Cal |       | # 78     |
| 74) Fluoranthene            | 14.02 | 202  | 68125    | 4.86      | ng    | 97       |
| 77) Pyrene                  | 14.30 | 202  | 66924    | 4.49      | ng    | 97       |
| 80) Benzo(a)anthracene      | 15.84 | 228  | 38119    | 2.76      | ng    | 95       |
| 82) Chrysene                | 15.84 | 228  | 38119    | 2.90      | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 17.13 | 252  | 83737    | 5.79      | ng    | # 97     |
| 88) Benzo(k)fluoranthene    | 17.13 | 252  | 83946    | 6.49      | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene  | 18.98 | 278  | 4030     | Below Cal |       | # 50     |
| 91) Benzo(g,h,i)perylene    | 19.28 | 276  | 33263    | Below Cal |       | 92       |

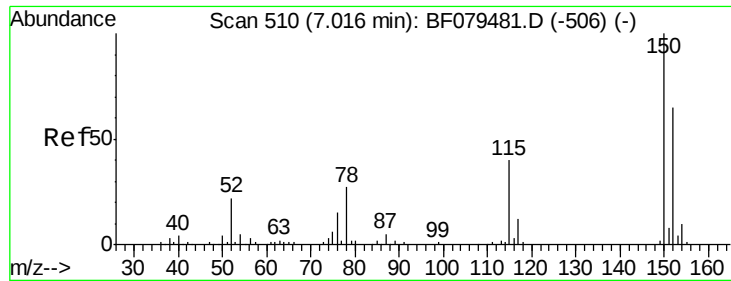
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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RAMP440NB-TP5.3(1)

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QLast Update : Fri May 29 17:35:14 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.95 min Scan# 504

Delta R.T. -0.01 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

Instrument :

BNA\_F

ClientSampleId :

RAMP440NB-TP5.3(1)

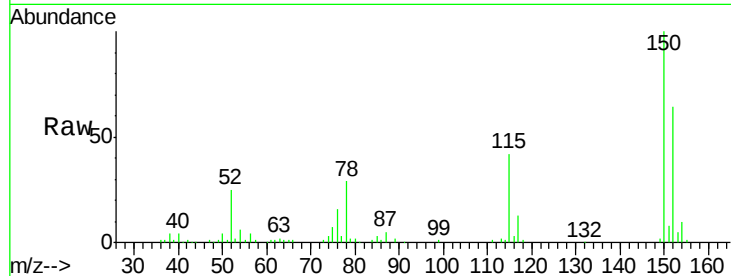
Tgt Ion:152 Resp: 71224

Ion Ratio Lower Upper

152 100

150 155.7 124.0 186.0

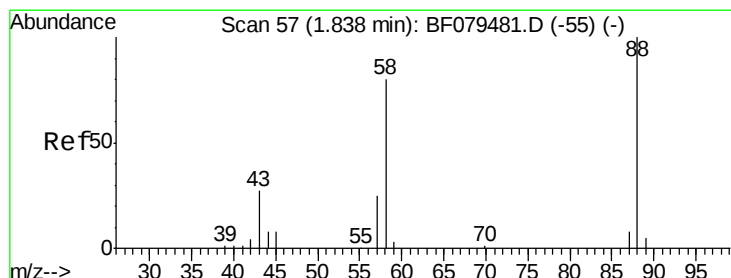
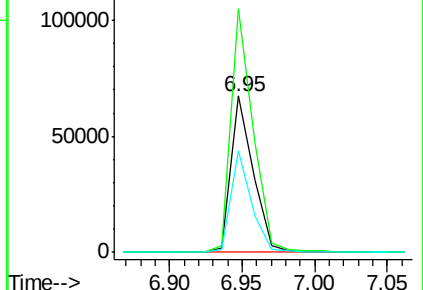
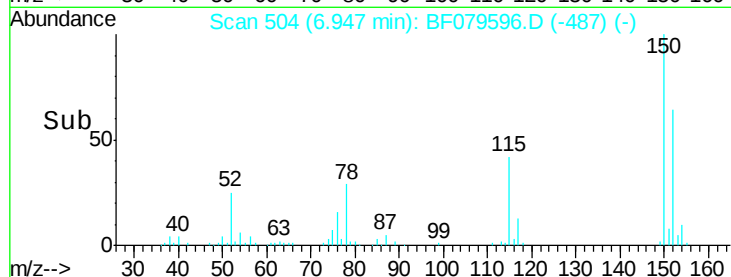
115 64.7 49.6 74.4



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



#2

1,4-Dioxane

Concen: 78.12 ng

RT: 1.66 min Scan# 41

Delta R.T. -0.11 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

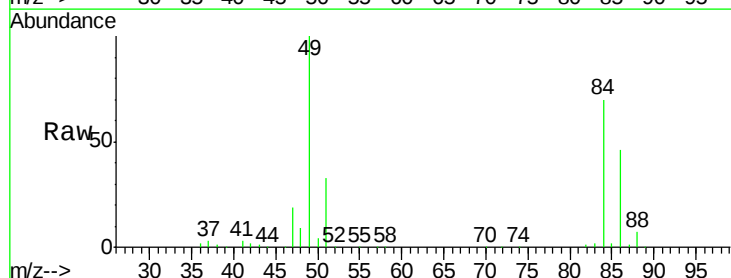
Tgt Ion: 88 Resp: 152607

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

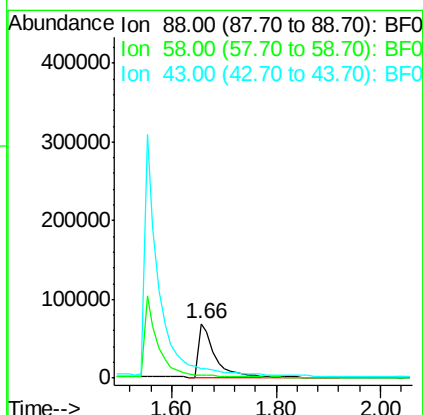
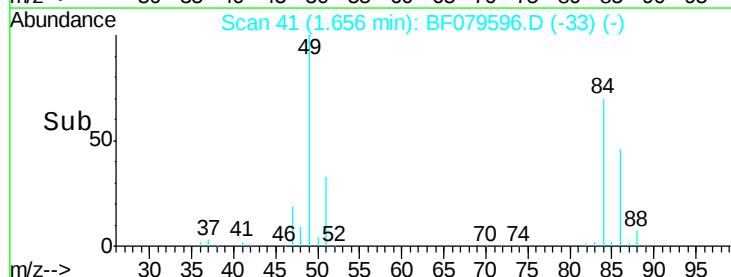
43 0.0 0.0 0.0

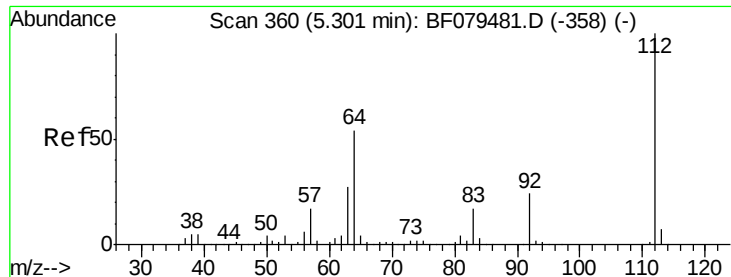


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 116.24 ng

RT: 5.22 min Scan# 353

Delta R.T. -0.01 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

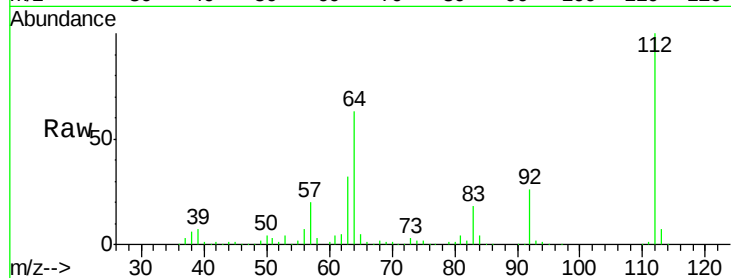
Instrument :

BNA\_F

ClientSampleId :

RAMP440NB-TP5.3(1)

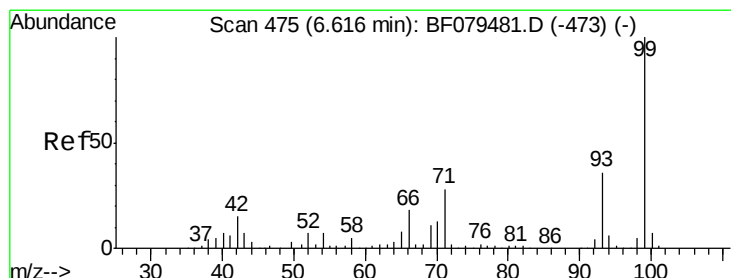
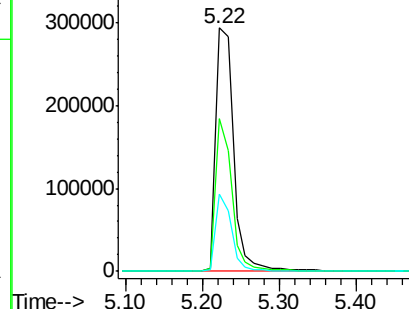
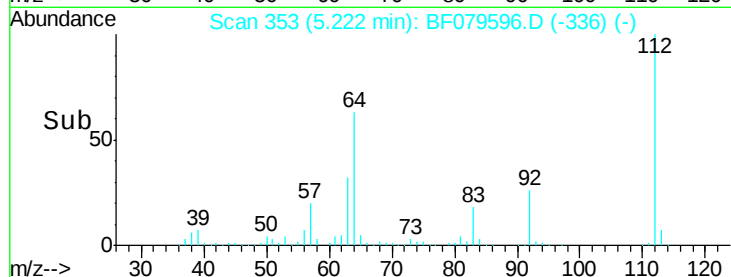
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 477337 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 63.0  | 43.5  | 65.3   |
| 63       | 31.7  | 21.8  | 32.8   |



Abundance Ion 112.00 (111.70 to 112.70): BF079481.D (-358) (-)

Ion 64.00 (63.70 to 64.70): BF079481.D (-358) (-)

Ion 63.00 (62.70 to 63.70): BF079481.D (-358) (-)



#7

Phenol-d6

Concen: 118.05 ng

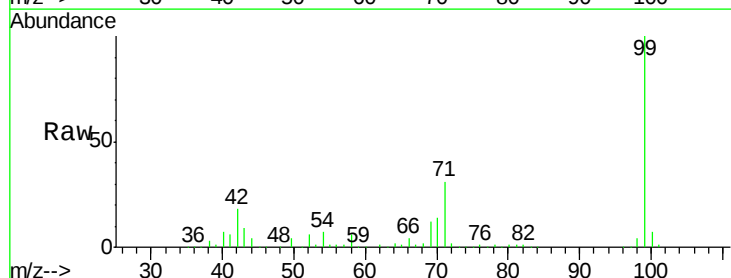
RT: 6.55 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

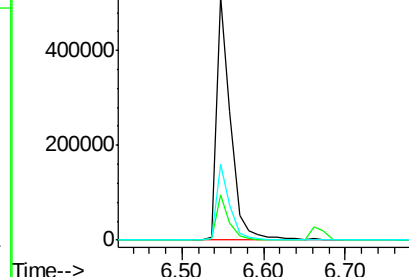
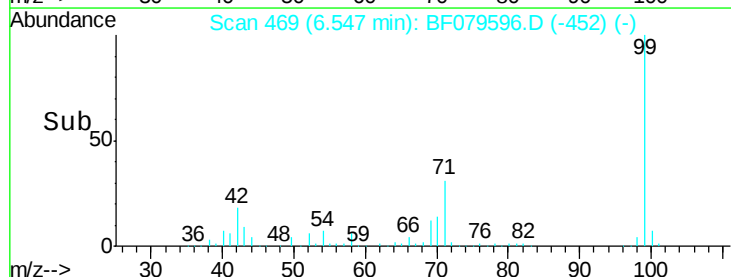
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 617885 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.3  | 11.9  | 17.9#  |
| 71       | 31.4  | 22.1  | 33.1   |



Abundance Ion 99.00 (98.70 to 99.70): BF079481.D (-473) (-)

Ion 42.00 (41.70 to 42.70): BF079481.D (-473) (-)

Ion 71.00 (70.70 to 71.70): BF079481.D (-473) (-)

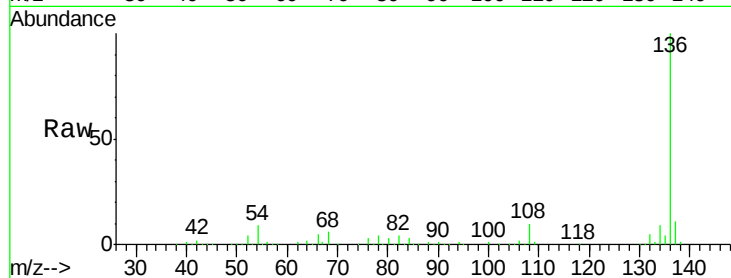




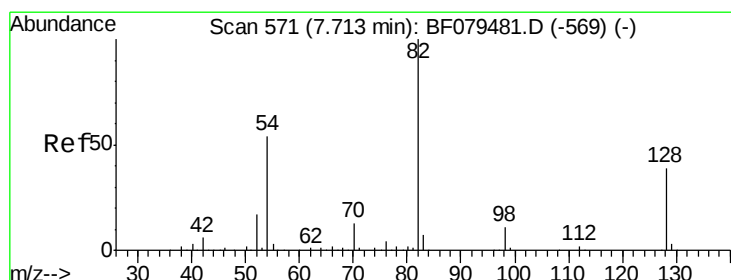
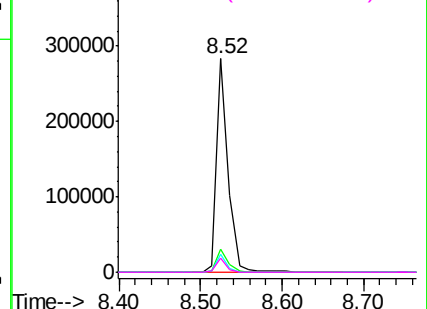
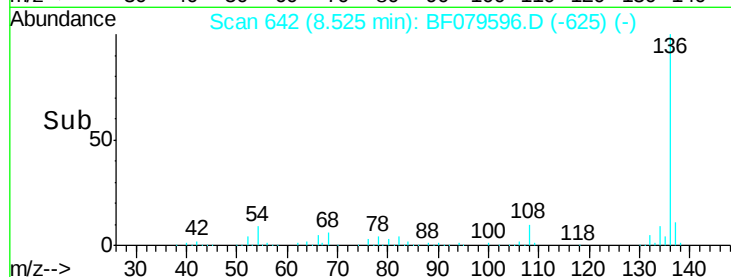
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.52 min Scan# 642  
Delta R.T. -0.01 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

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RAMP440NB-TP5.3(1)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 284480 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.5   | 12.7   |
| 54       | 8.7   | 6.6   | 9.8    |
| 68       | 6.3   | 4.7   | 7.1    |

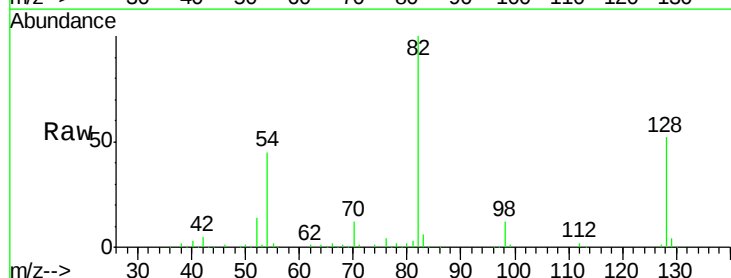


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

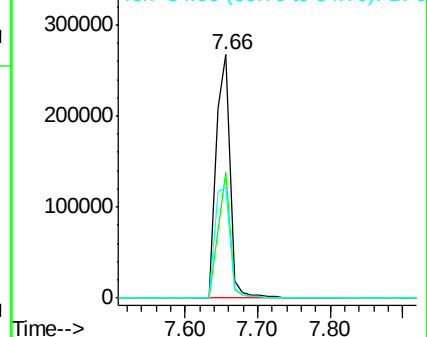
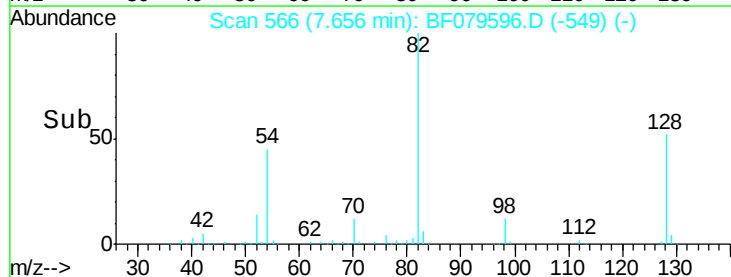


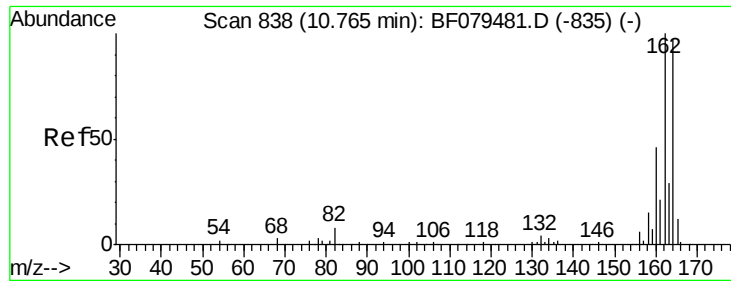
#23  
Nitrobenzene-d5  
Concen: 72.10 ng  
RT: 7.66 min Scan# 566  
Delta R.T. -0.01 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 354848 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 51.7  | 30.8  | 46.2#  |
| 54       | 45.5  | 42.8  | 64.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

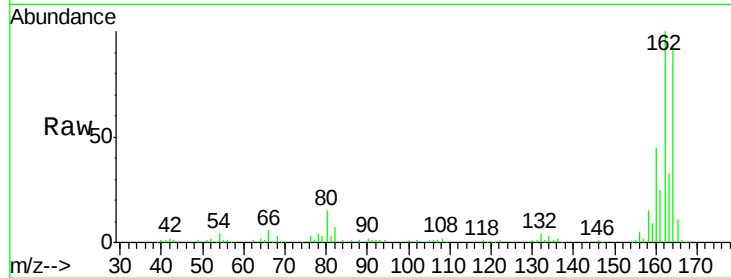




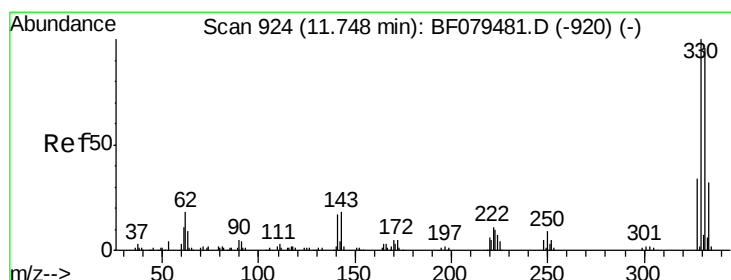
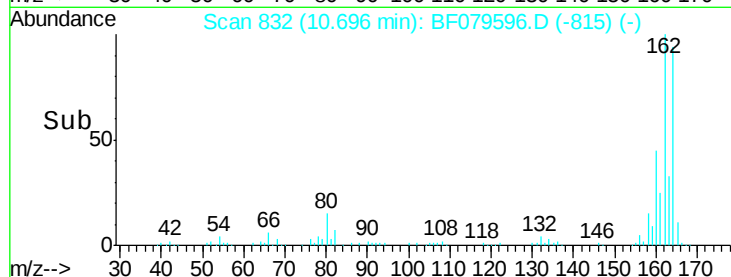
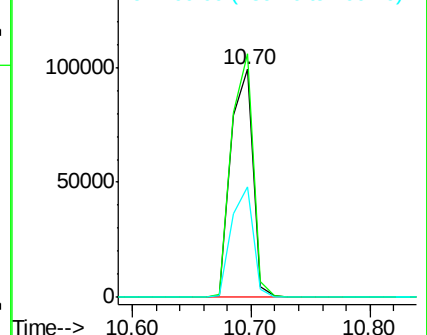
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.70 min Scan# 832  
Delta R.T. -0.01 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

Instrument :  
BNA\_F  
ClientSampleId :  
RAMP440NB-TP5.3(1)

Tgt Ion:164 Resp: 127282  
Ion Ratio Lower Upper  
164 100  
162 106.7 82.6 124.0  
160 48.4 37.7 56.5

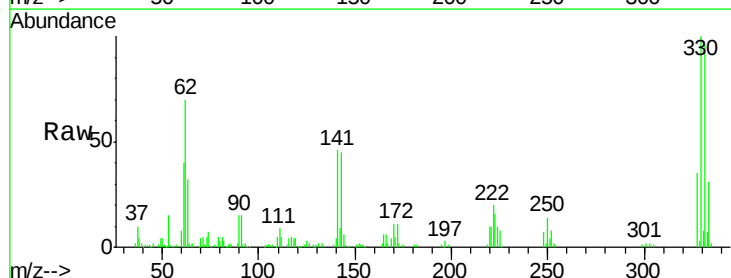


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

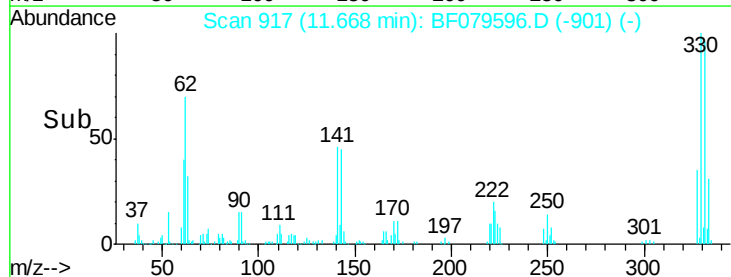
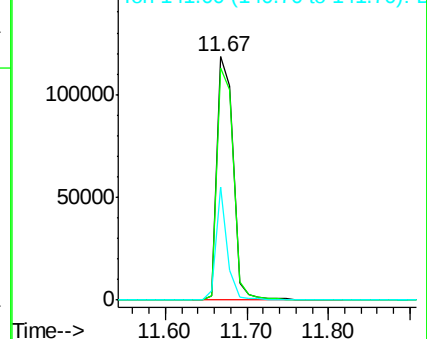


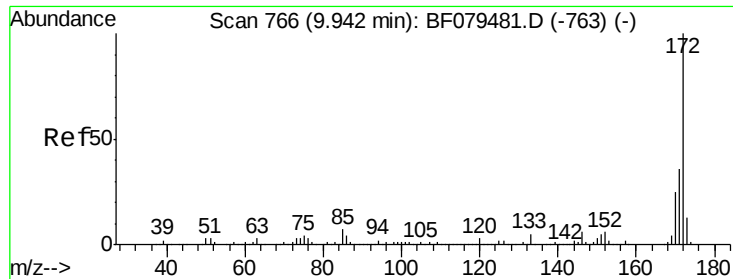
#41  
2,4,6-Tribromophenol  
Concen: 117.68 ng  
RT: 11.67 min Scan# 917  
Delta R.T. -0.02 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

Tgt Ion:330 Resp: 164515  
Ion Ratio Lower Upper  
330 100  
332 97.1 0.0 0.0#  
141 32.1 0.0 0.0#



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

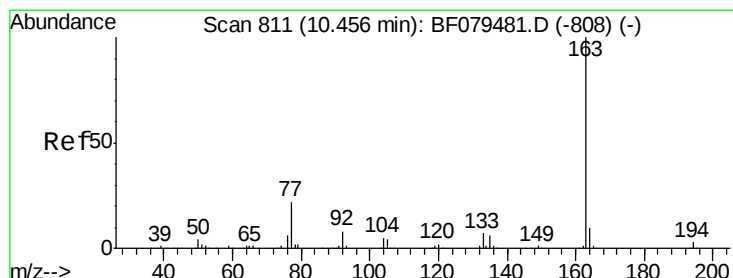
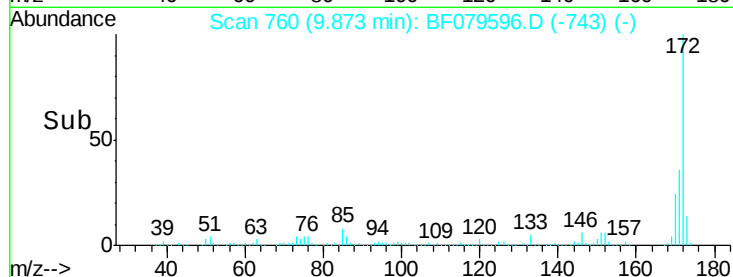
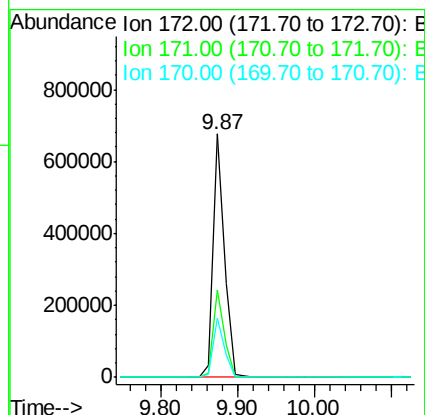
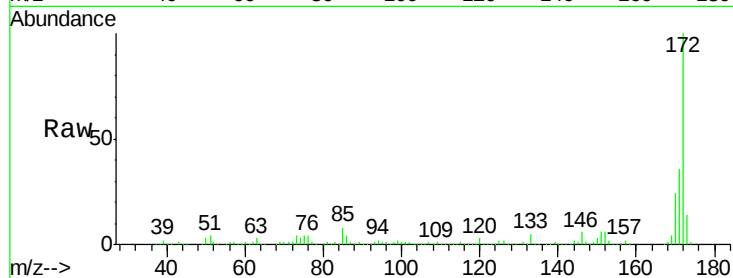




#44  
 2-Fluorobiphenyl  
 Concen: 76.47 ng  
 RT: 9.87 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

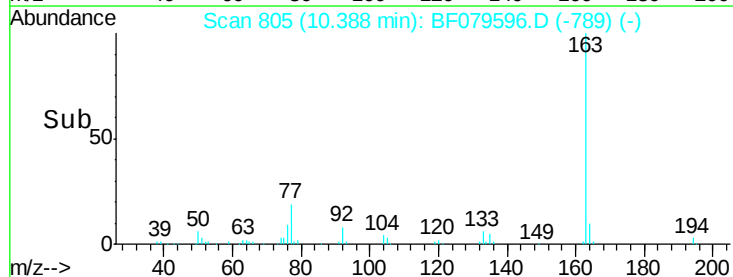
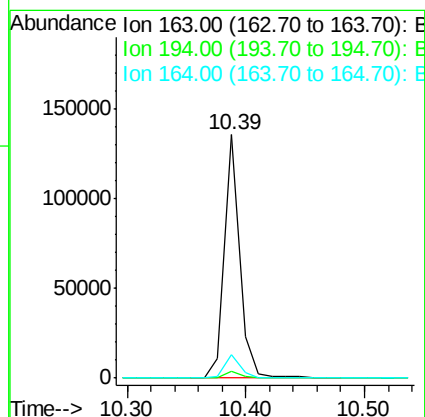
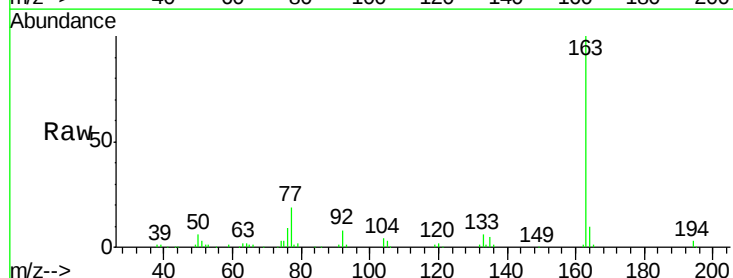
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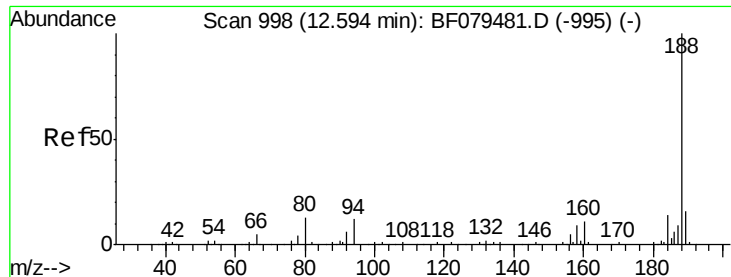
Tgt Ion:172 Resp: 682247  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 28.5 42.7  
 170 24.3 19.7 29.5



#49  
 Dimethylphthalate  
 Concen: 12.77 ng  
 RT: 10.39 min Scan# 805  
 Delta R.T. -0.02 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

Tgt Ion:163 Resp: 119716  
 Ion Ratio Lower Upper  
 163 100  
 194 2.9 2.4 3.6  
 164 9.7 8.2 12.4

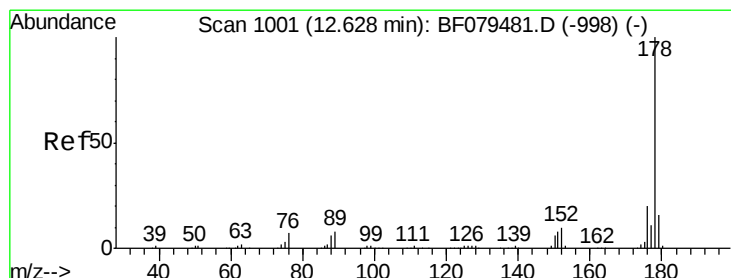
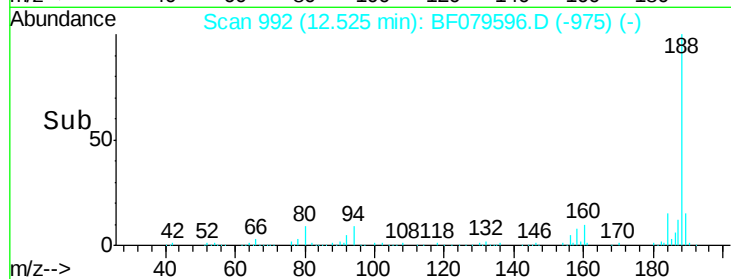
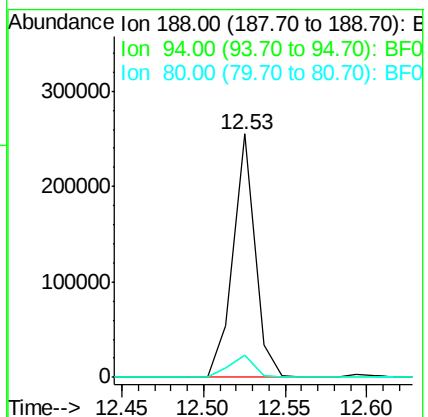
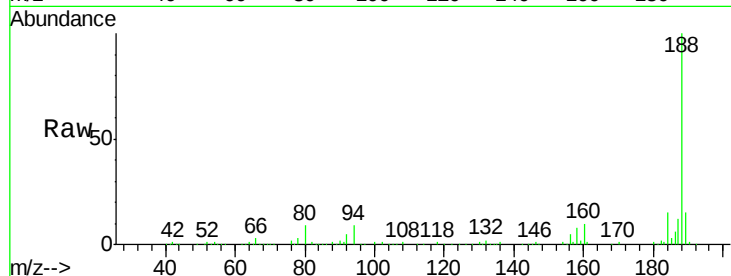




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.53 min Scan# 992  
 Delta R.T. -0.01 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

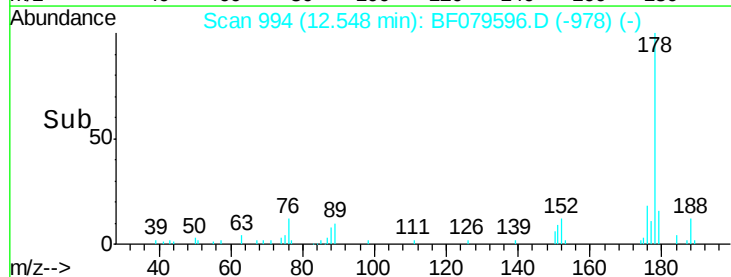
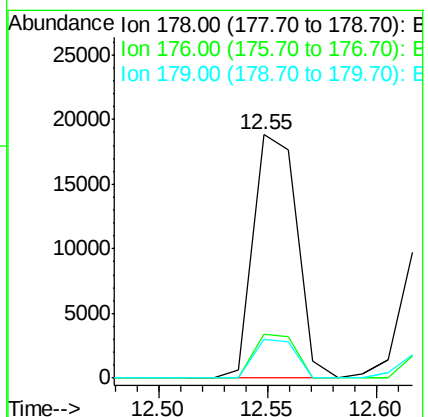
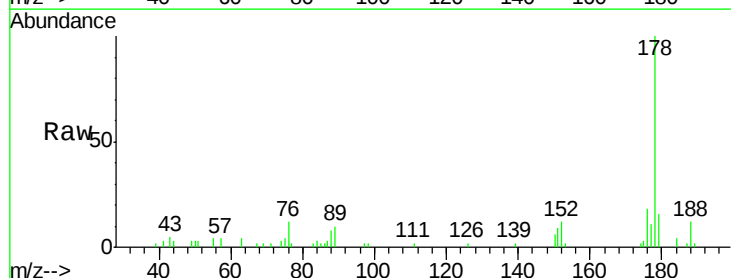
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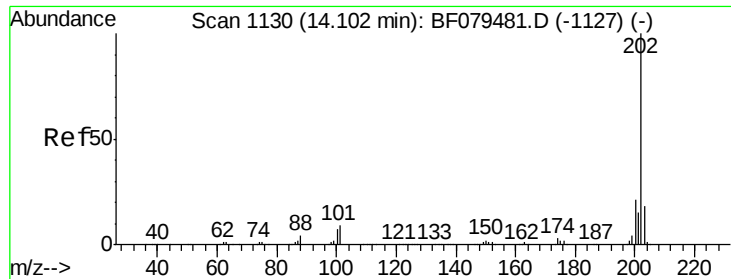
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.3   | 9.8   | 14.6# |
| 80      | 9.3   | 10.5  | 15.7# |



#70  
 Phenanthrene  
 Concen: 2.02 ng  
 RT: 12.55 min Scan# 994  
 Delta R.T. -0.02 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.7  | 23.5  |
| 179     | 16.2  | 12.4  | 18.6  |

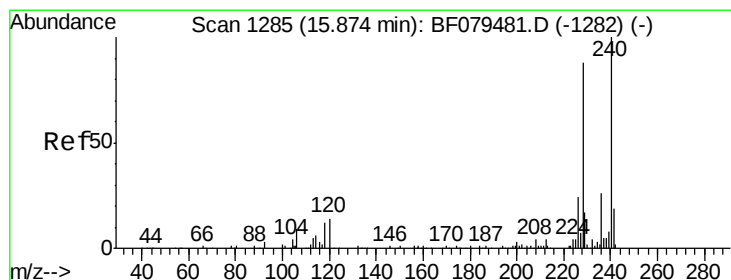
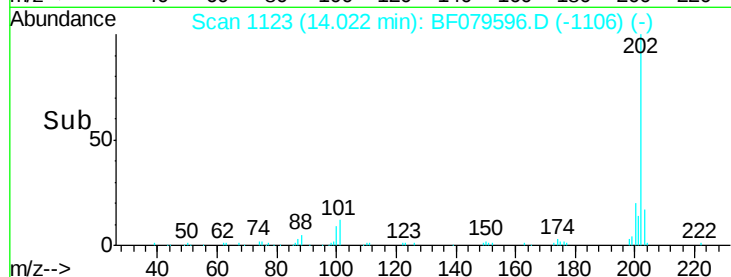
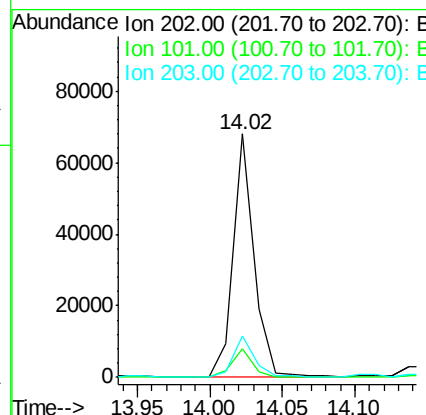
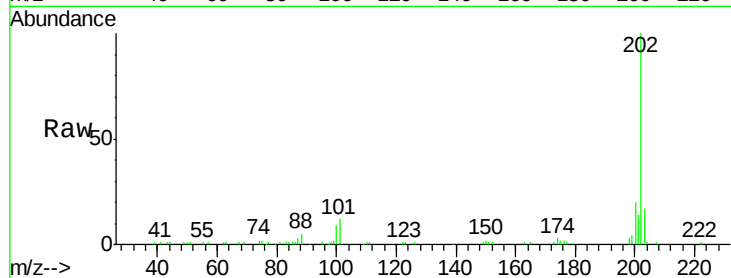




#74  
 Fluoranthene  
 Concen: 4.86 ng  
 RT: 14.02 min Scan# 1123  
 Delta R.T. -0.01 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

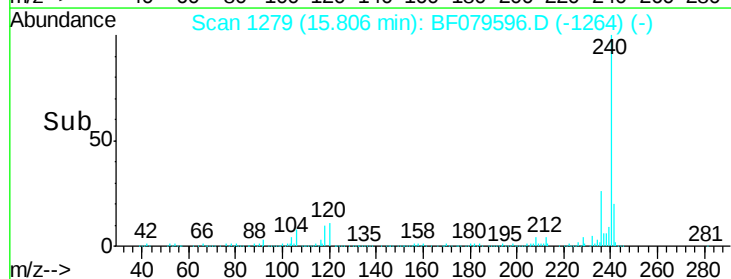
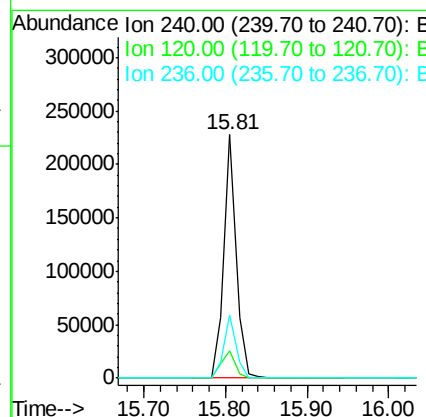
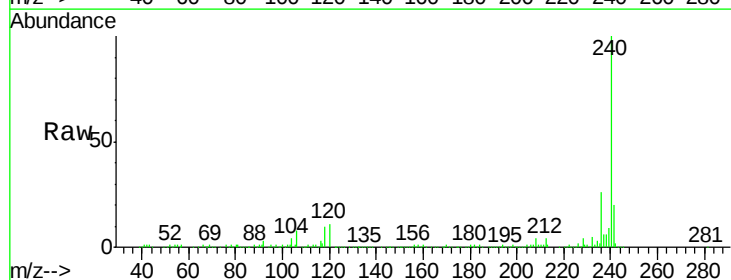
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAMP440NB-TP5.3(1)

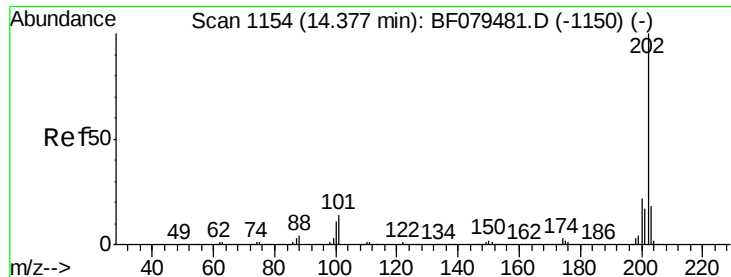
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 0.0   | 29.3  |
| 203     | 17.2  | 0.0   | 37.6  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 15.81 min Scan# 1279  
 Delta R.T. -0.03 min  
 Lab File: BF079596.D  
 Acq: 30 May 2015 10:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.4  | 10.8  | 16.2  |
| 236     | 25.9  | 21.0  | 31.6  |





#77

Pyrene

Concen: 4.49 ng

RT: 14.30 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

Instrument :

BNA\_F

ClientSampleId :

RAMP440NB-TP5.3(1)

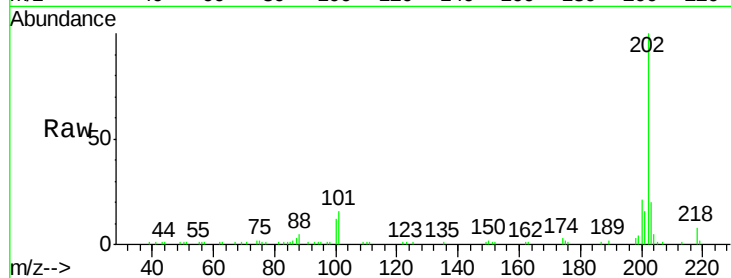
Tgt Ion:202 Resp: 66924

Ion Ratio Lower Upper

202 100

200 21.0 17.5 26.3

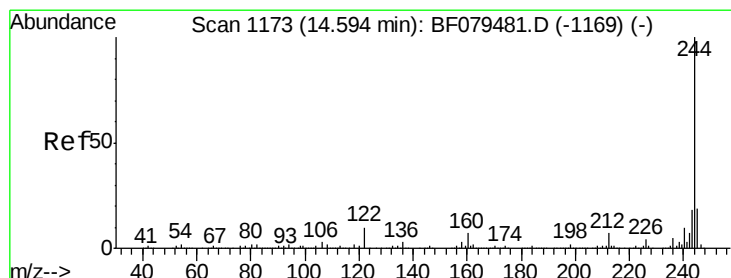
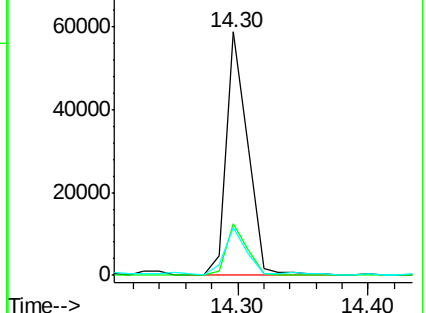
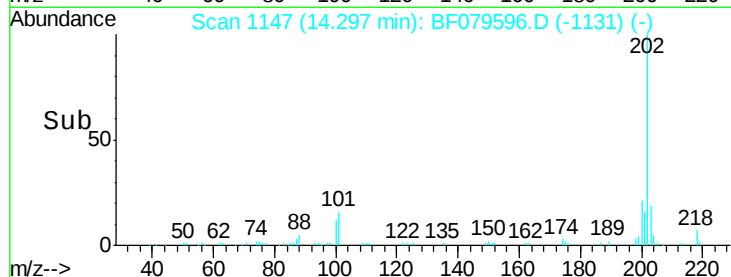
203 19.6 14.4 21.6



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



#78

Terphenyl-d14

Concen: 70.88 ng

RT: 14.51 min Scan# 1166

Delta R.T. -0.02 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

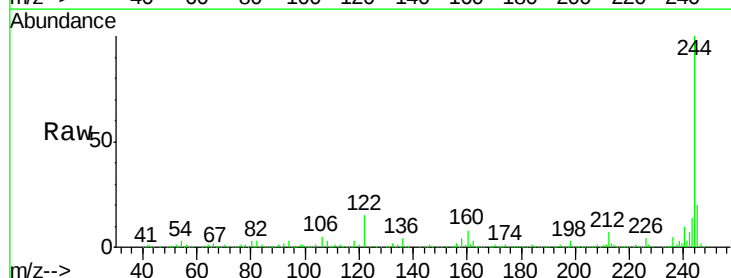
Tgt Ion:244 Resp: 725866

Ion Ratio Lower Upper

244 100

212 6.9 5.2 7.8

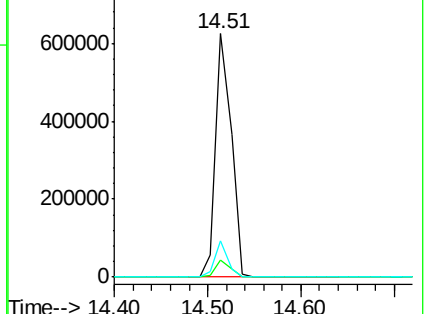
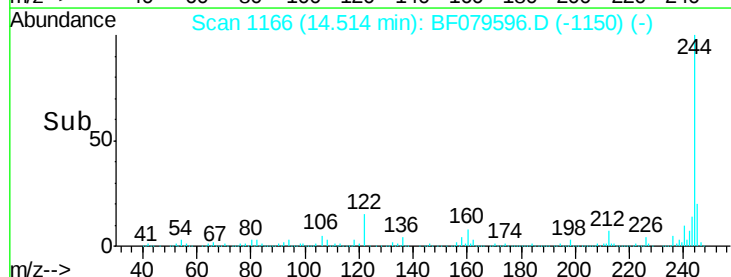
122 15.0 8.0 12.0#

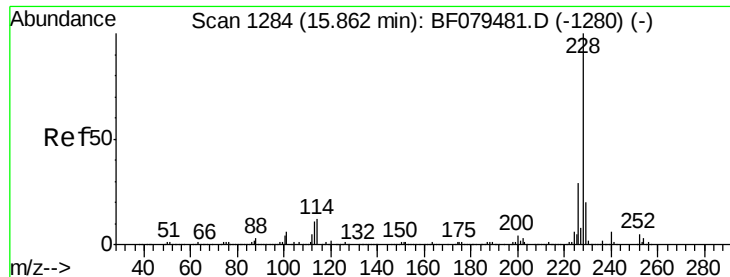


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.76 ng

RT: 15.84 min Scan# 1282

Delta R.T. 0.01 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

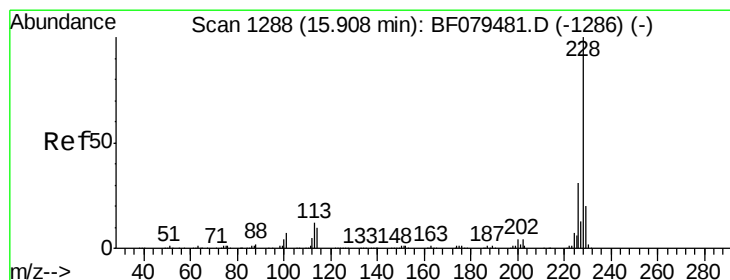
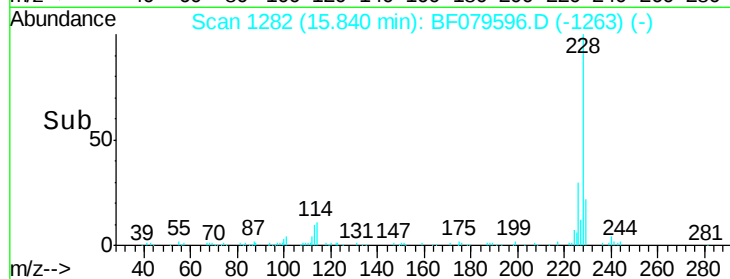
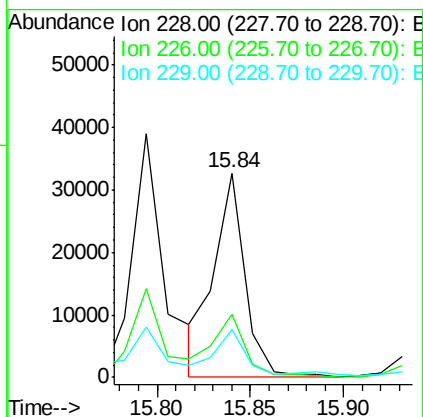
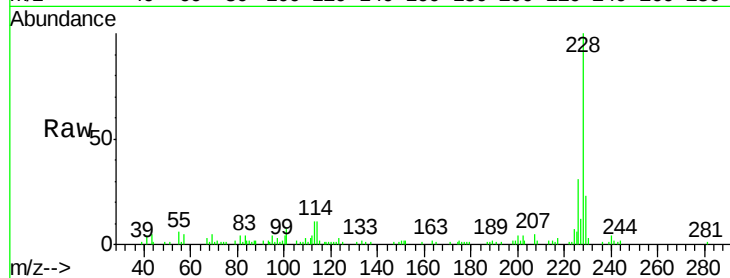
Instrument :

BNA\_F

ClientSampleId :

RAMP440NB-TP5.3(1)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 38119 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.6  | 22.8  | 34.2  |
| 229      | 23.1  | 15.9  | 23.9  |



#82

Chrysene

Concen: 2.90 ng

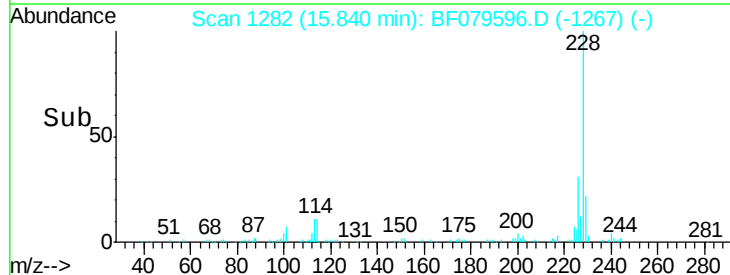
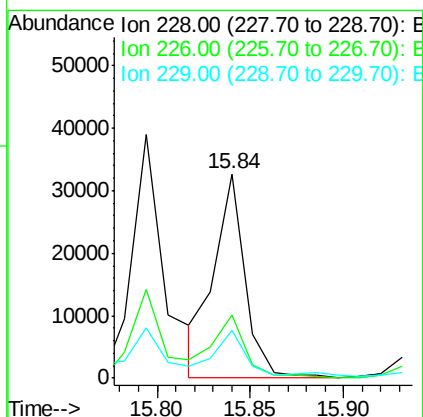
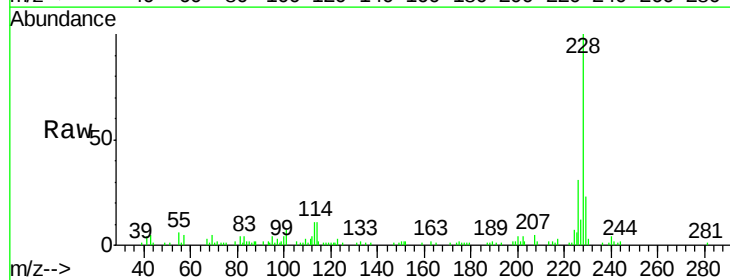
RT: 15.84 min Scan# 1282

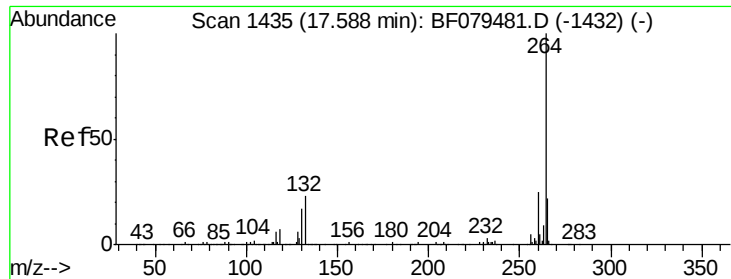
Delta R.T. -0.03 min

Lab File: BF079596.D

Acq: 30 May 2015 10:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 38119 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.6  | 25.0  | 37.4  |
| 229      | 23.1  | 15.9  | 23.9  |

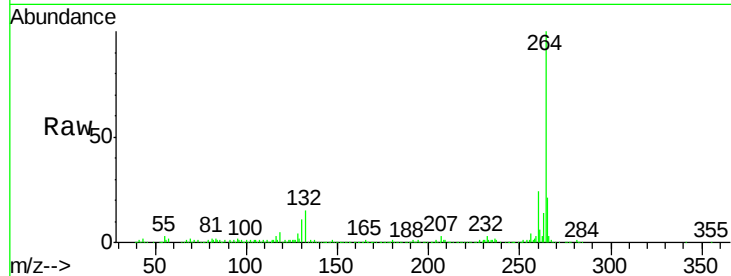




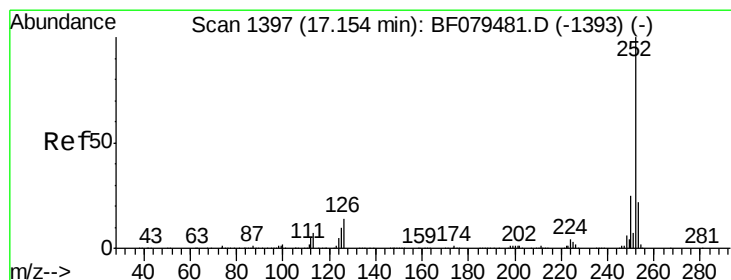
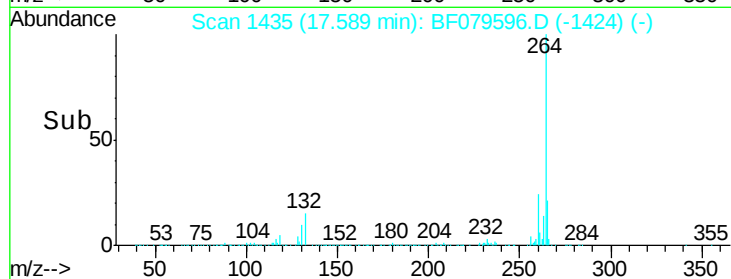
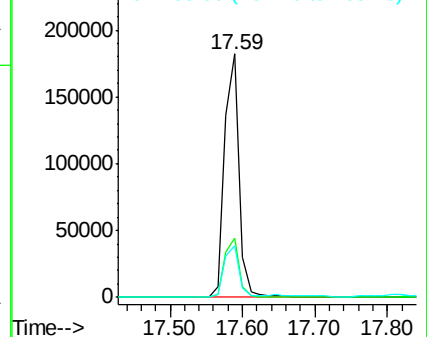
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.59 min Scan# 1435  
Delta R.T. -0.08 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

Instrument :  
BNA\_F  
ClientSampleId :  
RAMP440NB-TP5.3(1)

Tgt Ion:264 Resp: 253624  
Ion Ratio Lower Upper  
264 100  
260 24.1 19.8 29.8  
265 21.4 17.8 26.6

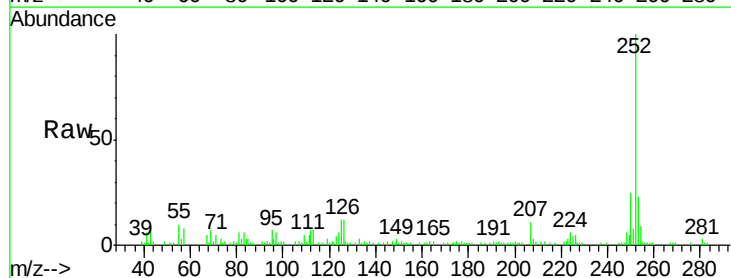


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

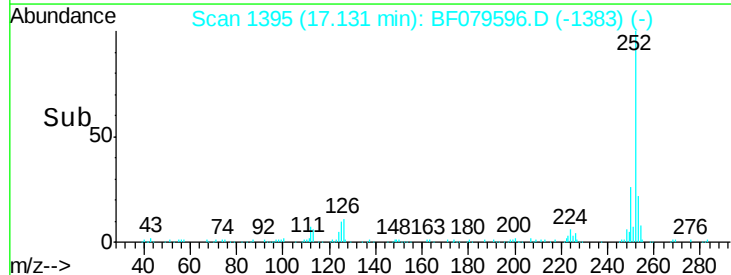
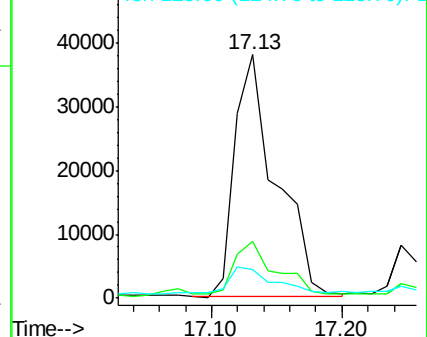


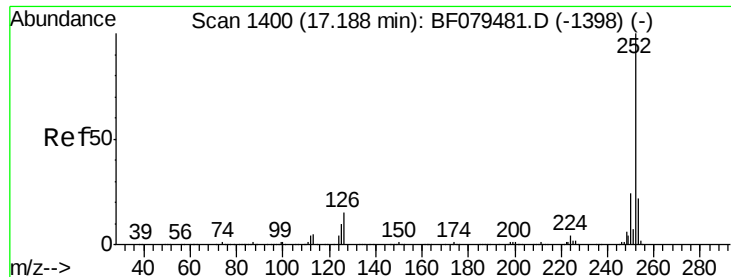
#87  
Benzo(b)fluoranthene  
Concen: 5.79 ng  
RT: 17.13 min Scan# 1395  
Delta R.T. -0.07 min  
Lab File: BF079596.D  
Acq: 30 May 2015 10:25

Tgt Ion:252 Resp: 83737  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.6 26.4  
125 12.0 7.8 11.6#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 6.49 ng

RT: 17.13 min Scan# 1395

Delta R.T. -0.10 min

Lab File: BF079596.D

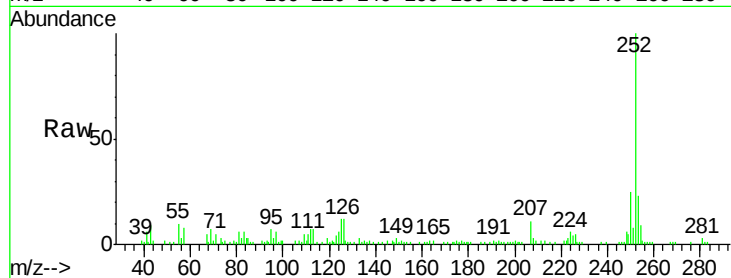
Acq: 30 May 2015 10:25

Instrument :

BNA\_F

ClientSampleId :

RAMP440NB-TP5.3(1)



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 83946 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 23.1  | 17.2  | 25.8  |
| 125      | 12.0  | 6.8   | 10.2  |

