

Data Path : Z:\HPCHEM1\BNA E\DATA\BE091415\  
 Data File : BE090826.D  
 Acq On : 15 Sep 2015 7:42  
 Operator : UM/IZ  
 Sample : G3659-04  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 091315-PRKA-F-U-S

Quant Time: Sep 15 08:29:07 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 11:40:50 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 28221    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.31 | 136  | 120945   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.17 | 164  | 64611    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.91 | 188  | 175304   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.07 | 240  | 236194   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.35 | 264  | 219289   | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.18  | 112  | 15113    | 2.76 | ng    | 0.00     |
| 5) Phenol-d6                | 6.75  | 99   | 12356    | 1.57 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.72  | 82   | 26036    | 3.26 | ng    | 0.01     |
| 13) 2,4,6-Tribromophenol    | 15.67 | 330  | 11943    | 6.33 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.80 | 172  | 61482    | 3.44 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.53 | 244  | 129668   | 4.96 | ng    | -0.01    |

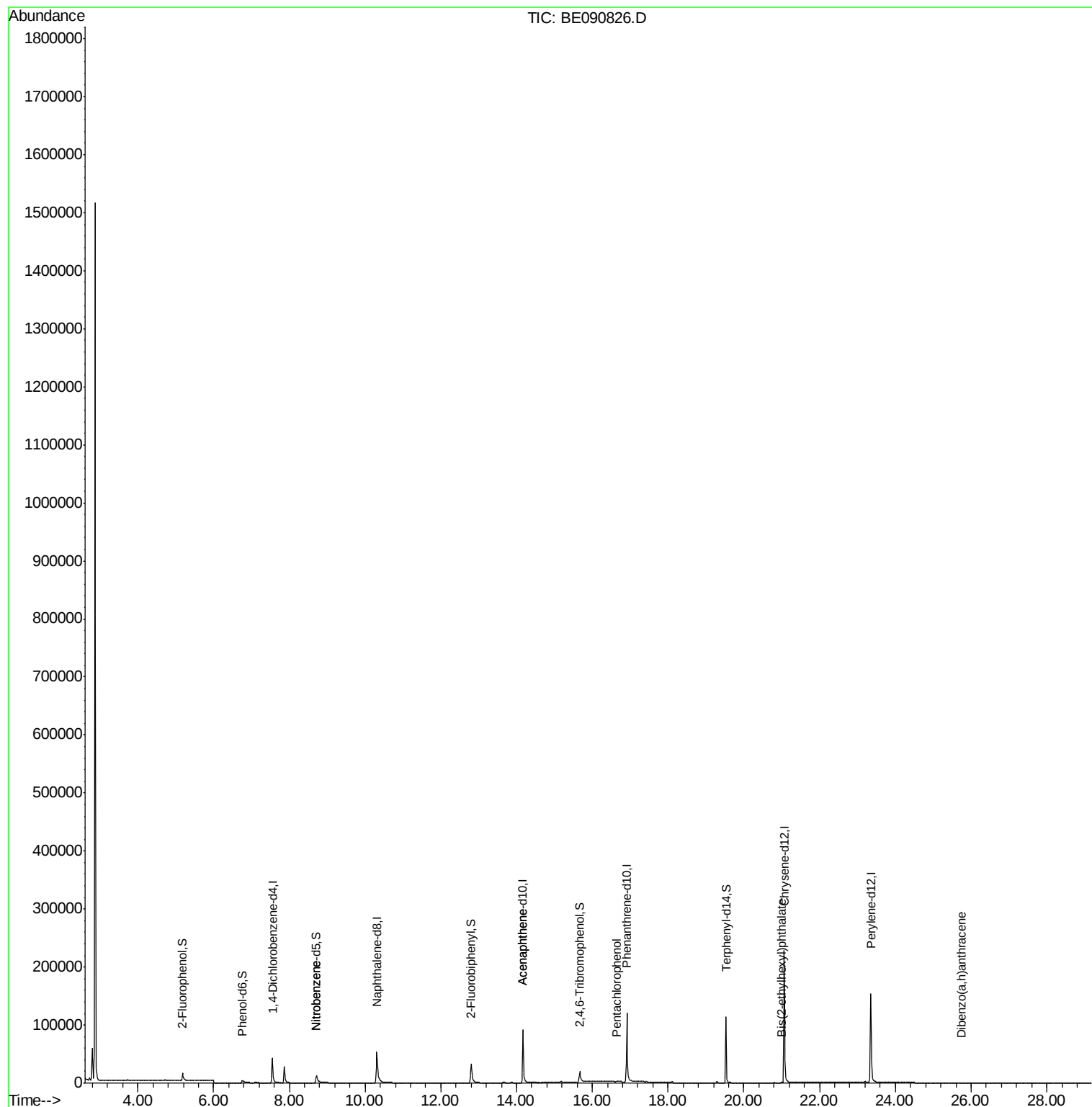
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.22  | 88   | 92       | Below Cal | #     | 27     |
| 3) n-Nitrosodimethylamine      | 3.47  | 42   | 46       | Below Cal | #     | 6      |
| 8) Nitrobenzene                | 8.73  | 77   | 26       | 0.11 ng   | #     | 70     |
| 16) Acenaphthene               | 14.17 | 154  | 366      | 0.02 ng   | #     | 1      |
| 20) Hexachlorobenzene          | 16.28 | 284  | 17       | Below Cal | #     | 37     |
| 21) Pentachlorophenol          | 16.63 | 266  | 42       | 0.48 ng   | #     | 60     |
| 29) Chrysene                   | 21.07 | 228  | 842      | Below Cal | #     | 73     |
| 30) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 1248     | 0.16 ng   | #     | 98     |
| 36) Dibenzo(a,h)anthracene     | 25.74 | 278  | 10       | 0.14 ng   | #     | 1      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 838

Delta R.T. -0.01 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

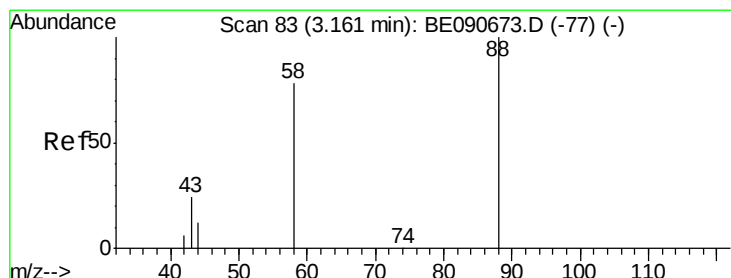
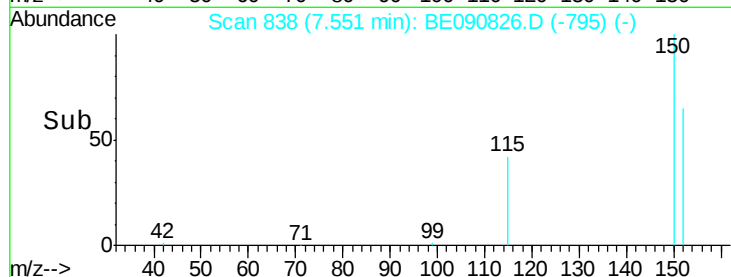
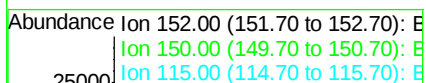
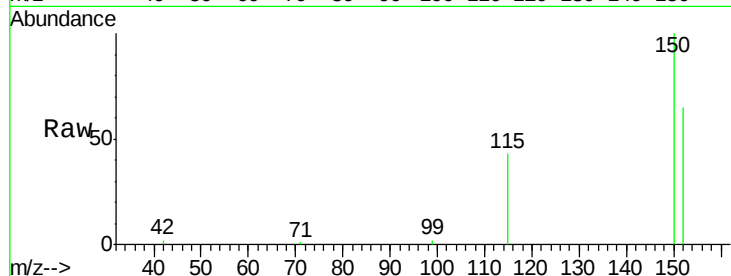
Tot Ion:152 Resp: 28221

Ion Ratio Lower Upper

152 100

150 153.4 122.2 183.4

115 65.3 51.0 76.4



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.22 min Scan# 91

Delta R.T. 0.06 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

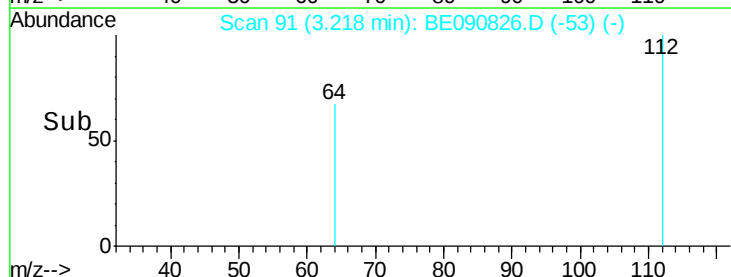
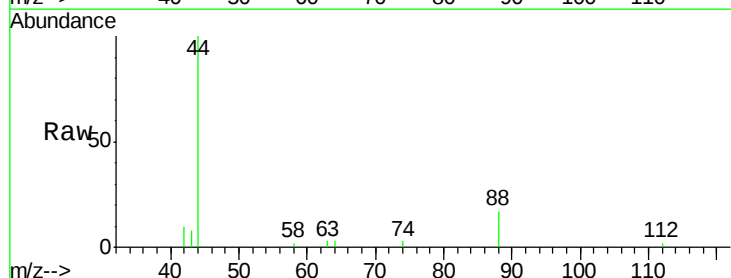
Tgt Ion: 88 Resp: 92

Ion Ratio Lower Upper

88 100

58 13.0 68.4 102.6#

43 0.0 26.9 40.3#



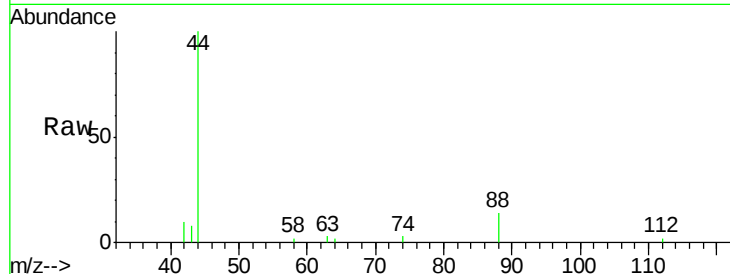


#3

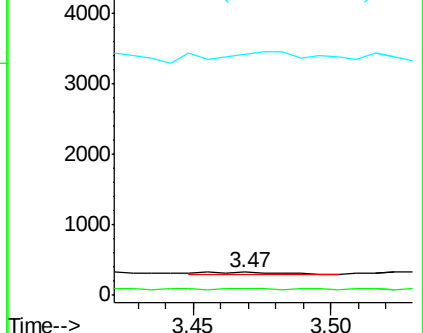
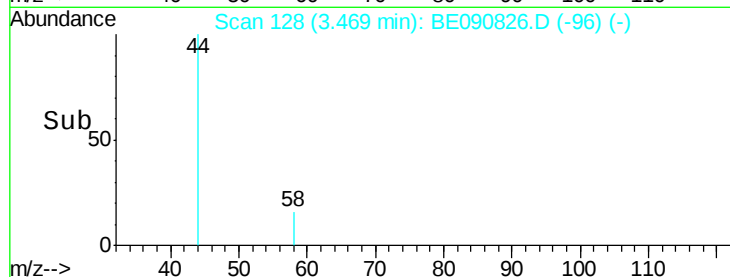
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.47 min Scan# 128  
 Delta R.T. 0.02 min  
 Lab File: BE090826.D  
 Acq: 15 Sep 2015 7:42

Instrument :  
 BNA\_E  
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| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 0.0   | 83.7  | 125.5# |
| 44      | 0.0   | 10.0  | 15.0#  |



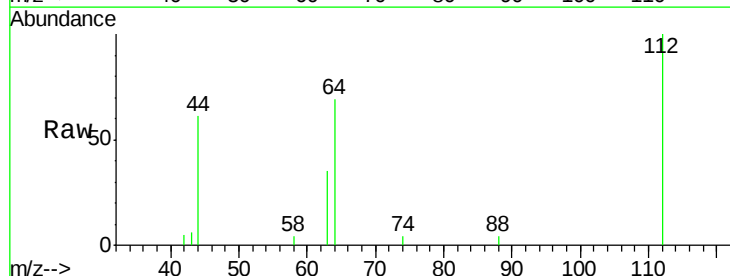
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



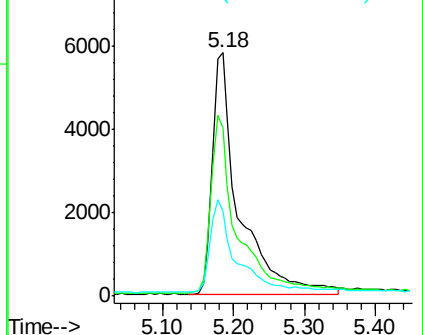
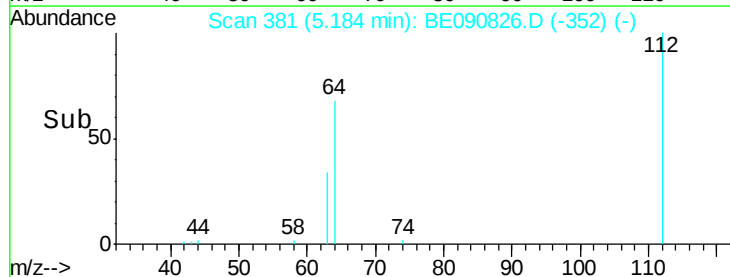
#4

2-Fluorophenol  
 Concen: 2.76 ng  
 RT: 5.18 min Scan# 381  
 Delta R.T. -0.00 min  
 Lab File: BE090826.D  
 Acq: 15 Sep 2015 7:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.7  | 57.3  | 85.9  |
| 63      | 38.2  | 29.2  | 43.8  |



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.57 ng

RT: 6.75 min Scan# 663

Delta R.T. 0.00 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

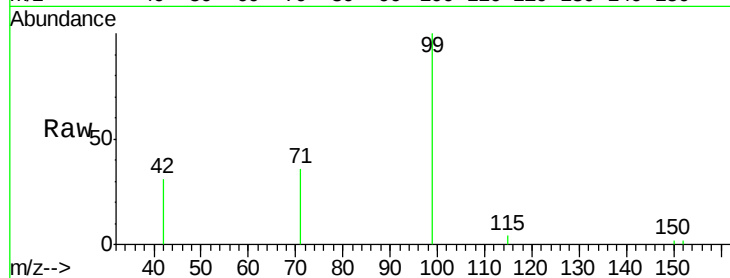
Tot Ion: 99 Resp: 12356

Ion Ratio Lower Upper

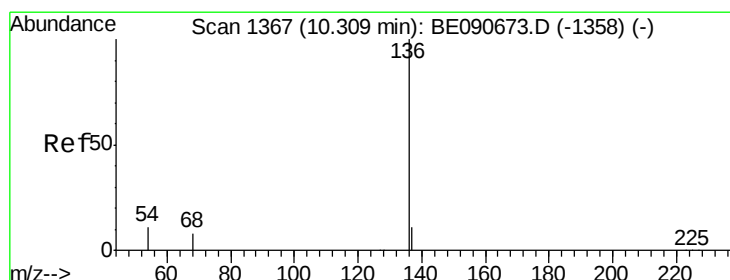
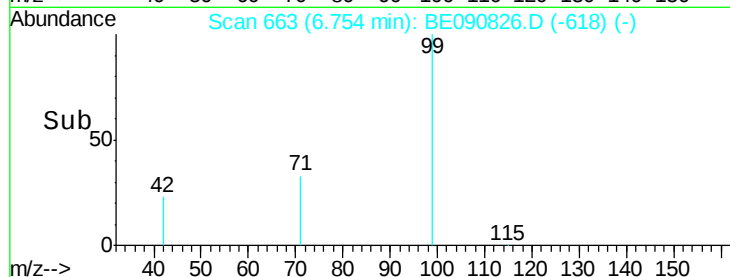
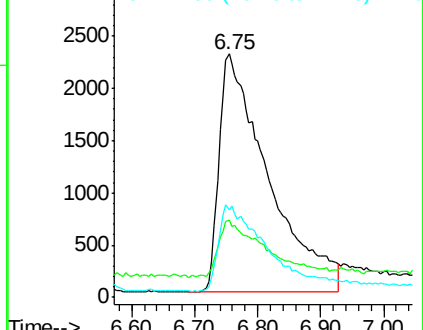
99 100

42 23.0 16.8 25.2

71 36.8 28.3 42.5



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Tgt Ion: 136 Resp: 120945

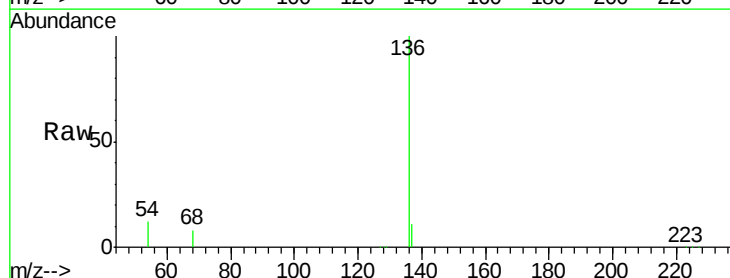
Ion Ratio Lower Upper

136 100

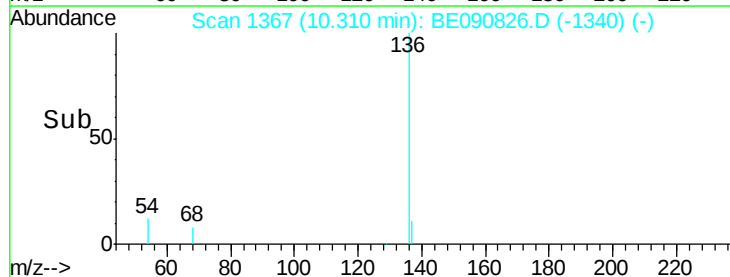
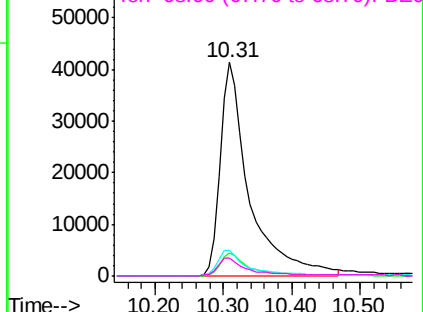
137 10.8 8.7 13.1

54 12.2 9.0 13.6

68 8.4 6.3 9.5



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): BE0  
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 3.26 ng

RT: 8.72 min Scan# 1091

Delta R.T. 0.01 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

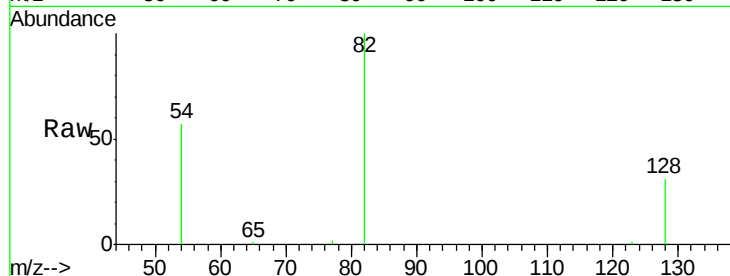
Tot Ion: 82 Resp: 26036

Ion Ratio Lower Upper

82 100

128 31.0 25.0 37.4

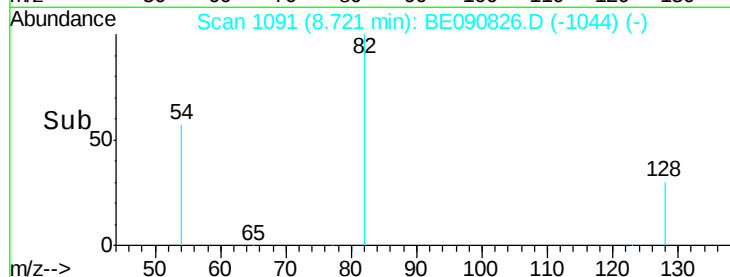
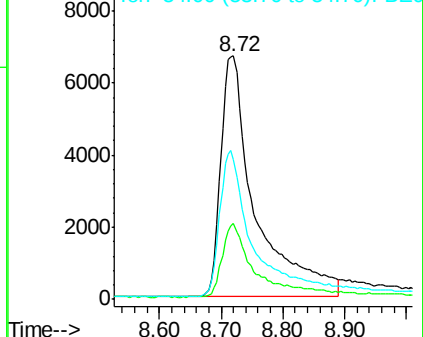
54 57.5 46.3 69.5



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#8

Nitrobenzene

Concen: 0.11 ng

RT: 8.73 min Scan# 1092

Delta R.T. -0.02 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

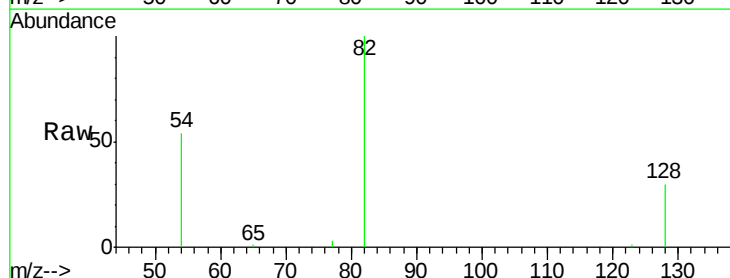
Tgt Ion: 77 Resp: 26

Ion Ratio Lower Upper

77 100

123 15.4 25.1 37.7#

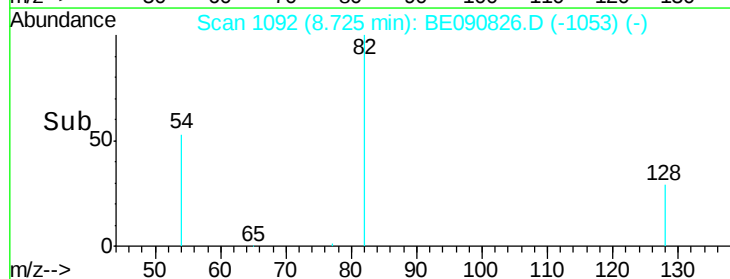
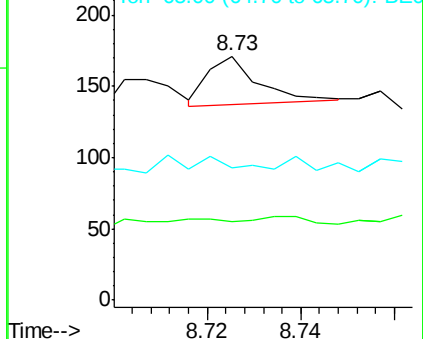
65 0.0 9.9 14.9#

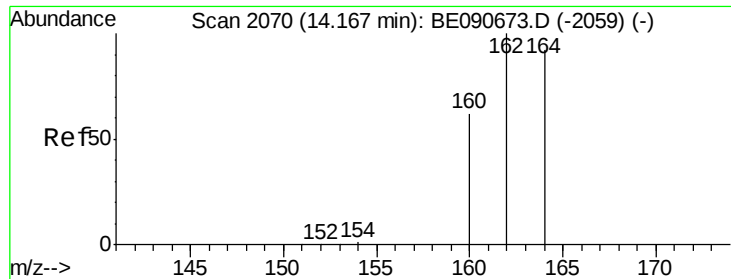


Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 2070

Delta R.T. 0.00 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

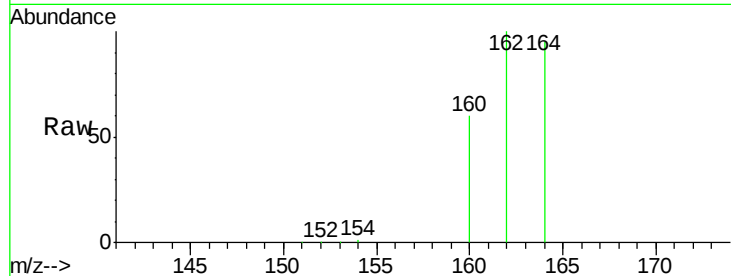
Tot Ion:164 Resp: 64611

Ion Ratio Lower Upper

164 100

162 105.5 86.8 130.2

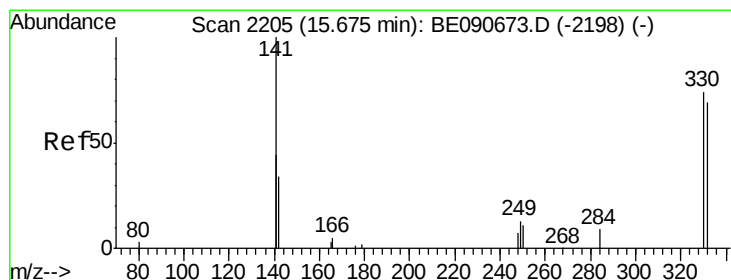
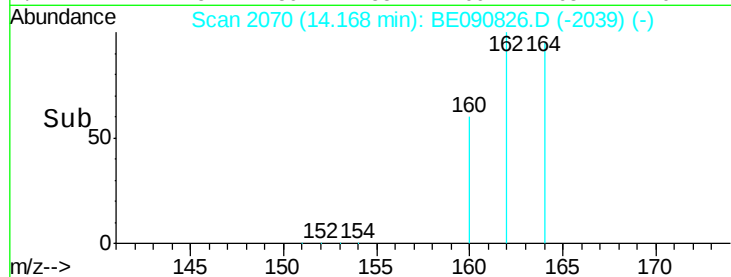
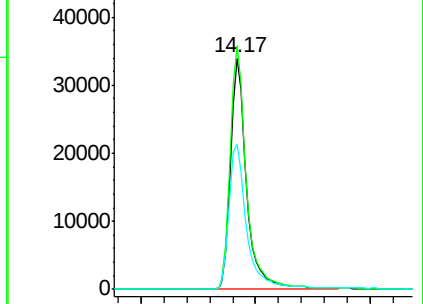
160 62.9 53.9 80.9



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



#13

2,4,6-Tribromophenol

Concen: 6.33 ng

RT: 15.67 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

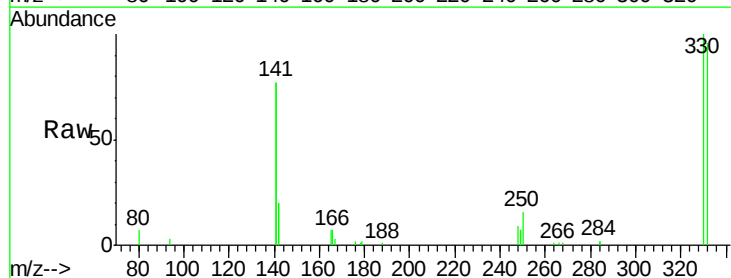
Tgt Ion:330 Resp: 11943

Ion Ratio Lower Upper

330 100

332 96.9 74.9 112.3

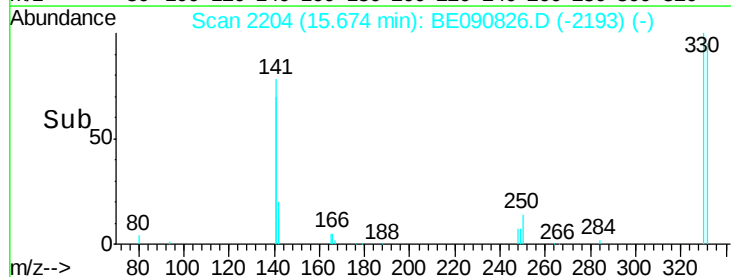
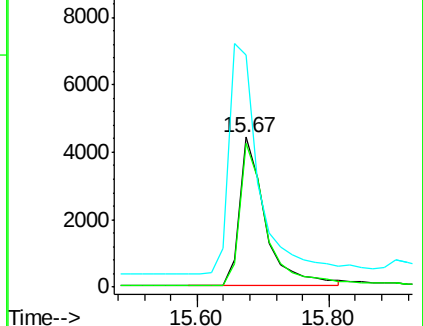
141 182.6 145.2 217.8



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

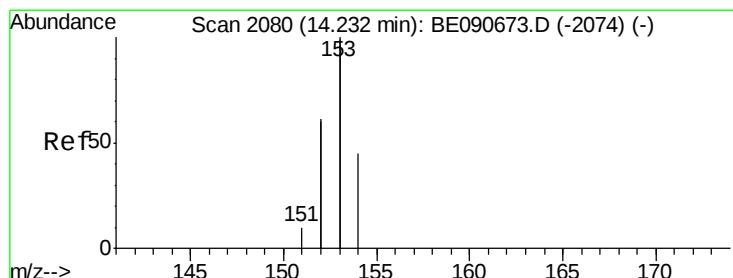
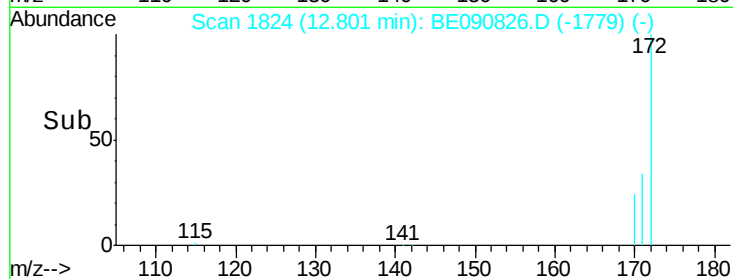
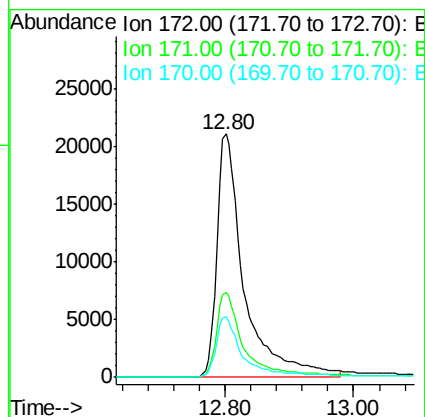
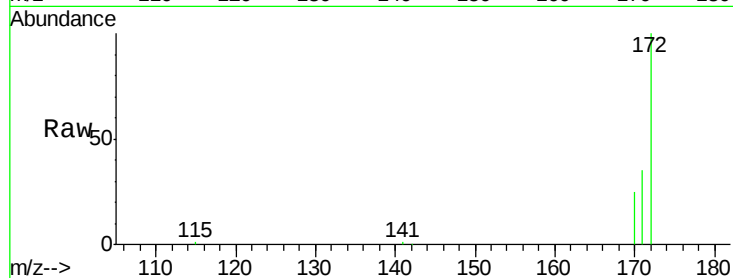




#14  
2-Fluorobiphenyl  
Concen: 3.44 ng  
RT: 12.80 min Scan# 1824  
Delta R.T. 0.00 min  
Lab File: BE090826.D  
Acq: 15 Sep 2015 7:42

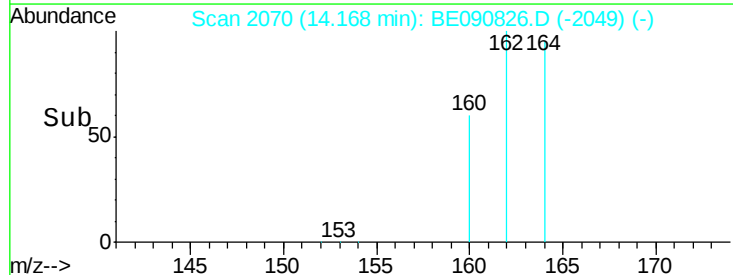
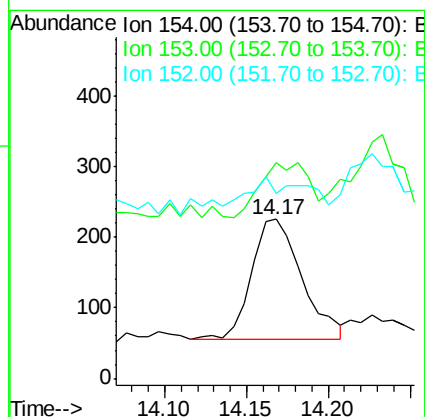
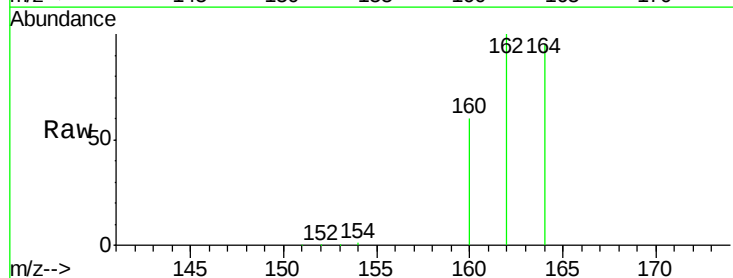
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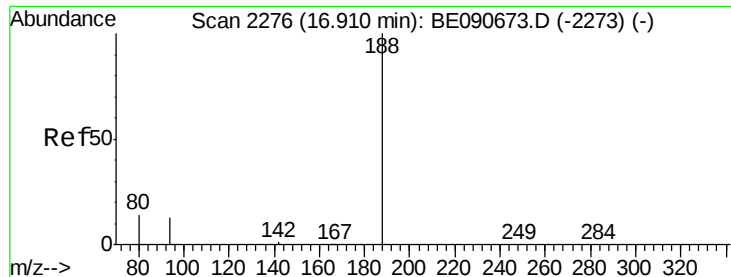
Tot Ion:172 Resp: 61482  
Ion Ratio Lower Upper  
172 100  
171 34.6 27.8 41.8  
170 24.6 19.8 29.6



#16  
Acenaphthene  
Concen: 0.02 ng  
RT: 14.17 min Scan# 2070  
Delta R.T. -0.06 min  
Lab File: BE090826.D  
Acq: 15 Sep 2015 7:42

Tgt Ion:154 Resp: 366  
Ion Ratio Lower Upper  
154 100  
153 44.5 354.5 531.7#  
152 25.4 227.8 341.6#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2275

Delta R.T. -0.00 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

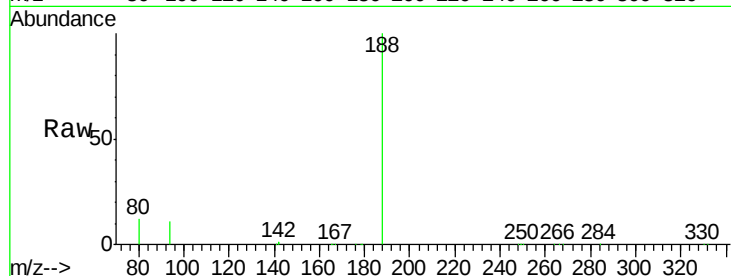
Tot Ion:188 Resp: 175304

Ion Ratio Lower Upper

188 100

94 11.4 10.3 15.5

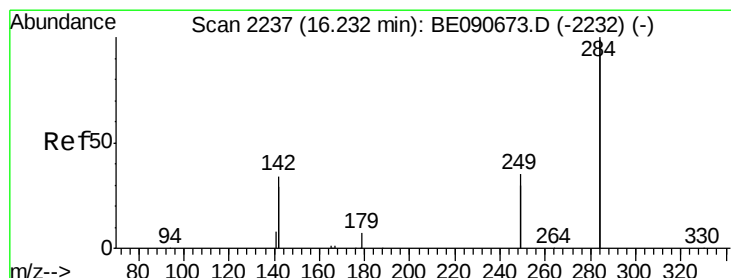
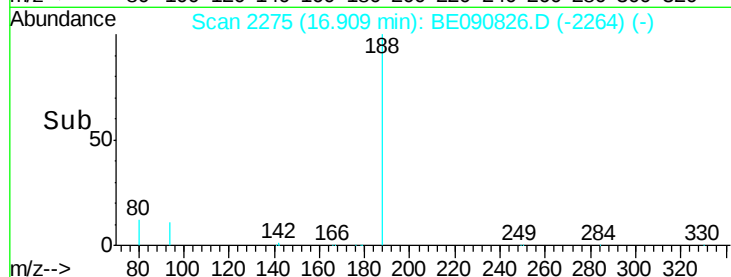
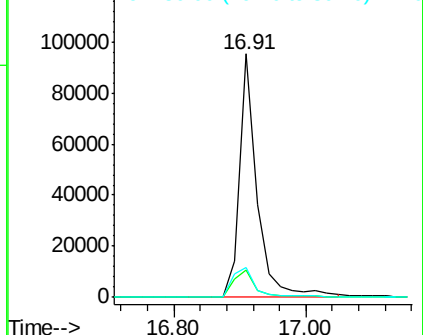
80 12.4 11.0 16.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

Hexachlorobenzene

Concen: Below Cal

RT: 16.28 min Scan# 2239

Delta R.T. 0.05 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

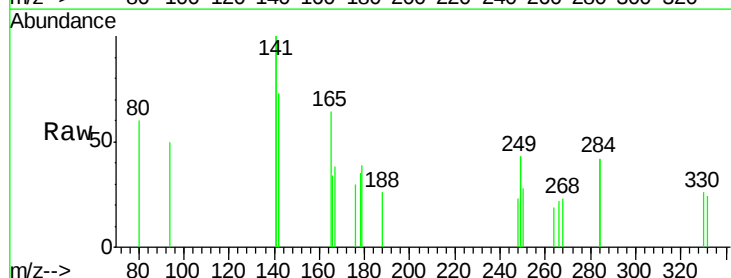
Tgt Ion:284 Resp: 17

Ion Ratio Lower Upper

284 100

142 0.0 35.0 52.4#

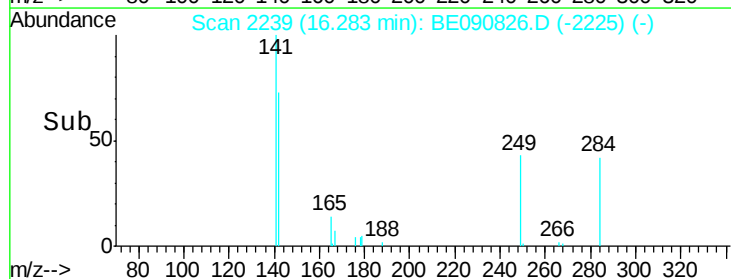
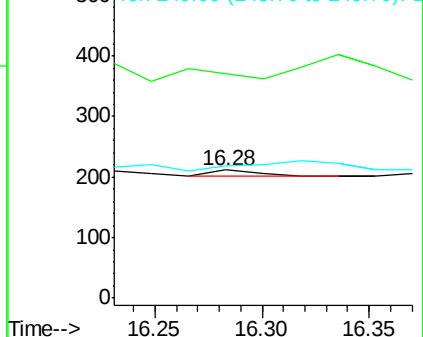
249 0.0 25.5 38.3#

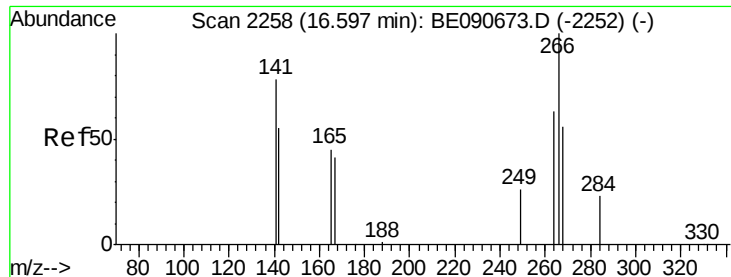


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#21

Pentachlorophenol

Concen: 0.48 ng

RT: 16.63 min Scan# 2259

Delta R.T. 0.03 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

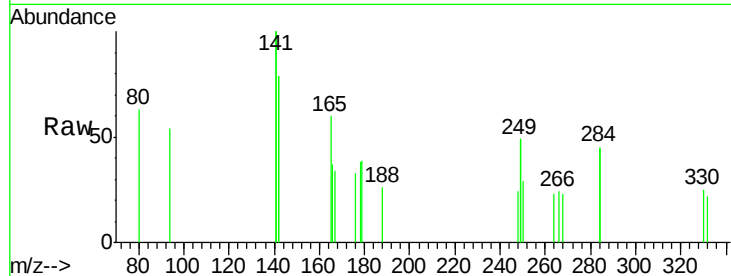
Tot Ion:266 Resp: 42

Ion Ratio Lower Upper

266 100

268 96.4 49.6 74.4#

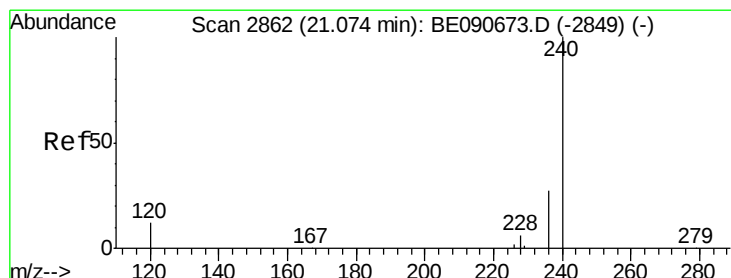
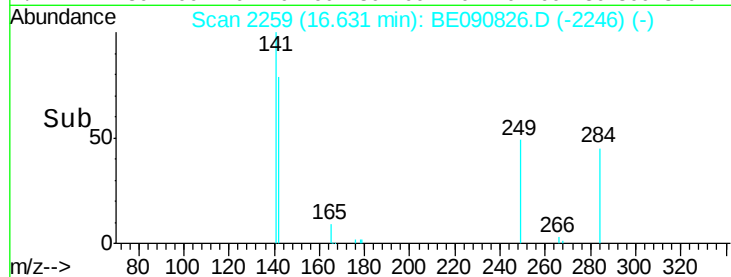
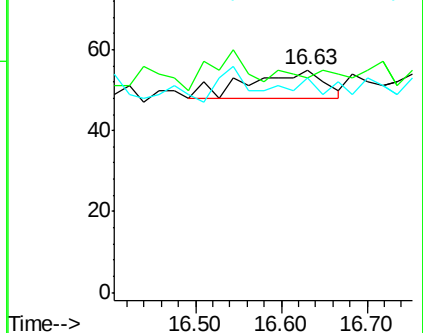
264 96.4 53.9 80.9#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.07 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

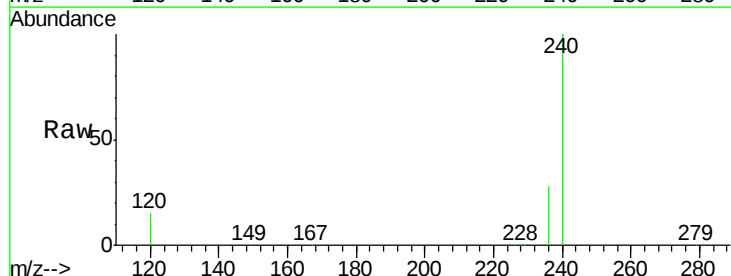
Tgt Ion:240 Resp: 236194

Ion Ratio Lower Upper

240 100

120 14.9 10.1 15.1

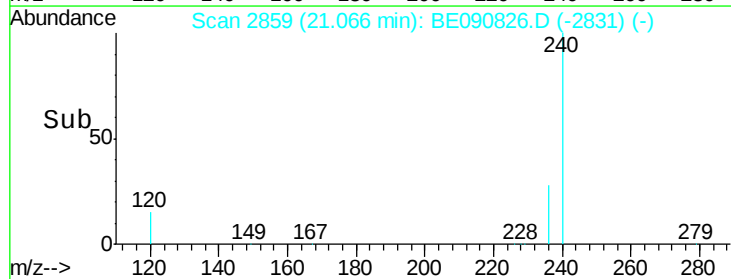
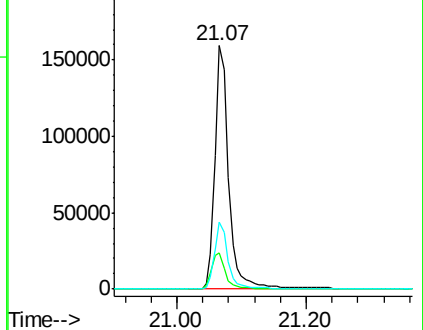
236 27.7 21.9 32.9

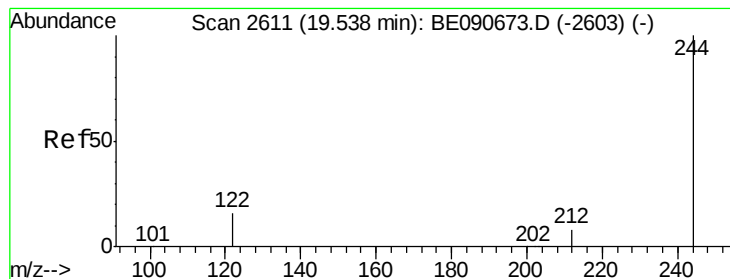


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Terphenyl-d14

Concen: 4.96 ng

RT: 19.53 min Scan# 2608

Delta R.T. -0.01 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S

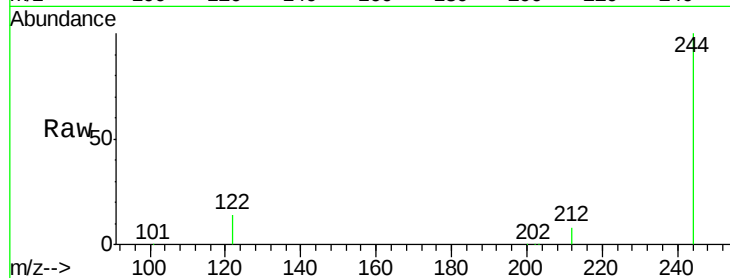
Tot Ion:244 Resp: 129668

Ion Ratio Lower Upper

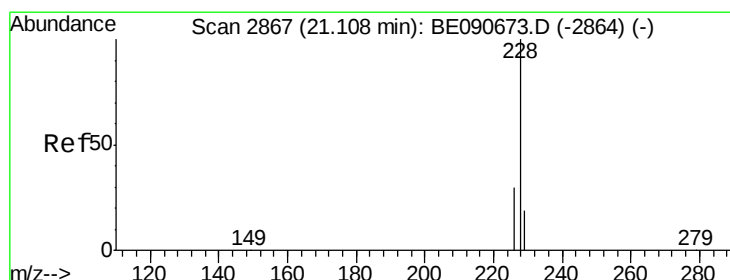
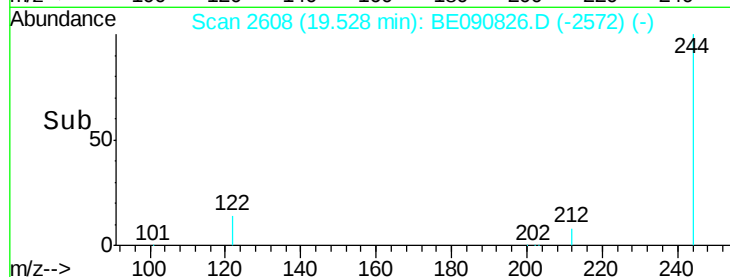
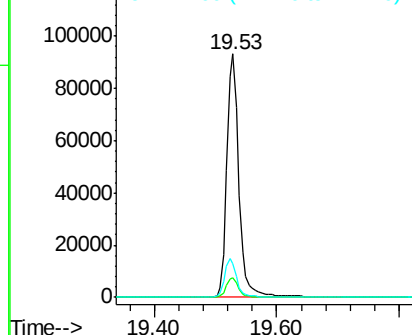
244 100

212 8.3 6.9 10.3

122 14.0 12.9 19.3



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



#29

Chrysene

Concen: Below Cal

RT: 21.07 min Scan# 2859

Delta R.T. -0.04 min

Lab File: BE090826.D

Acq: 15 Sep 2015 7:42

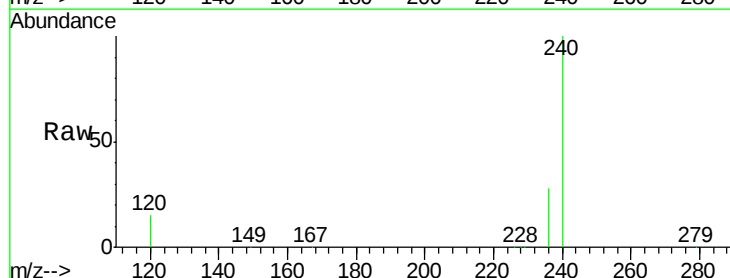
Tgt Ion:228 Resp: 842

Ion Ratio Lower Upper

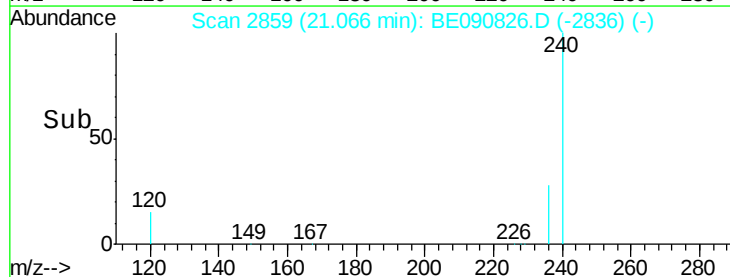
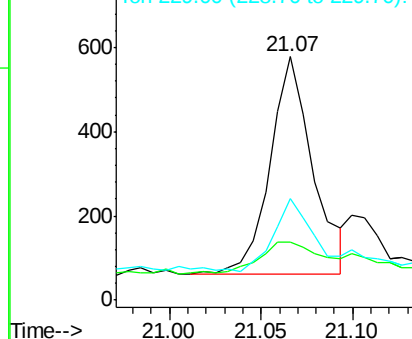
228 100

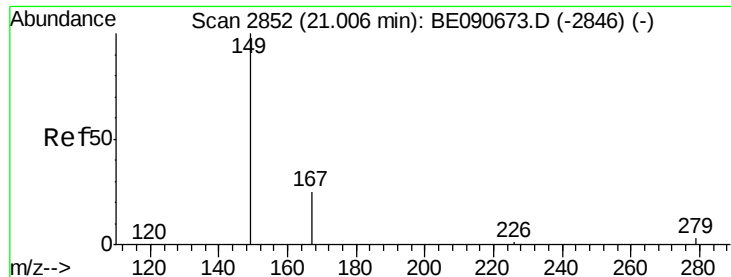
226 23.7 24.2 36.4#

229 41.5 15.3 22.9#



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

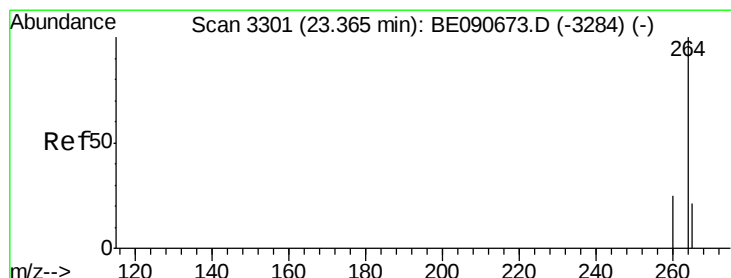
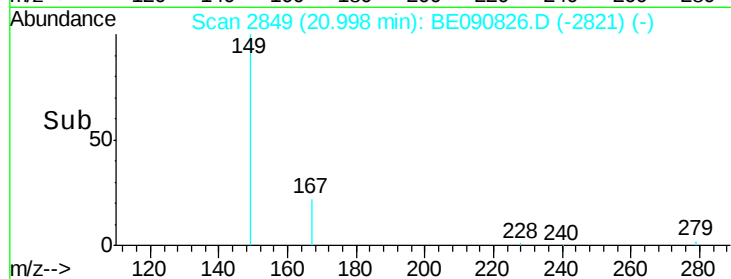
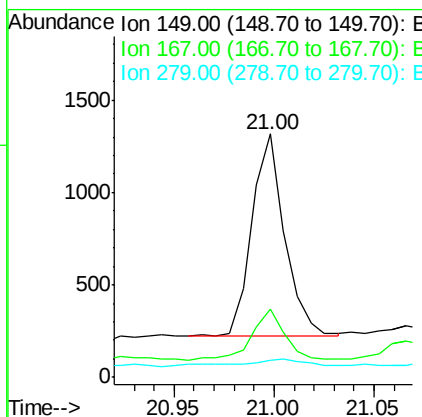
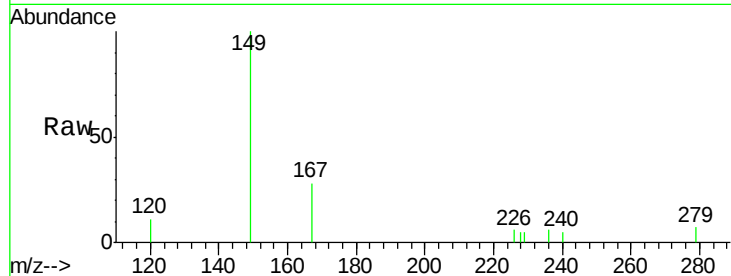




#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.16 ng  
 RT: 21.00 min Scan# 2849  
 Delta R.T. -0.01 min  
 Lab File: BE090826.D  
 Acq: 15 Sep 2015 7:42

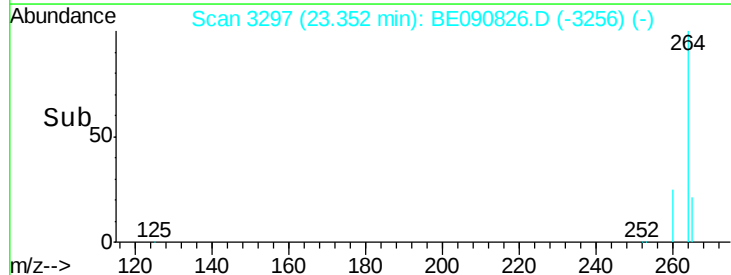
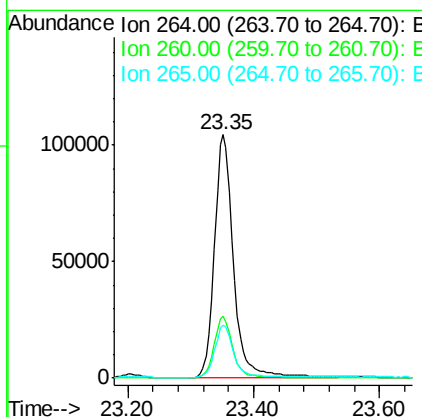
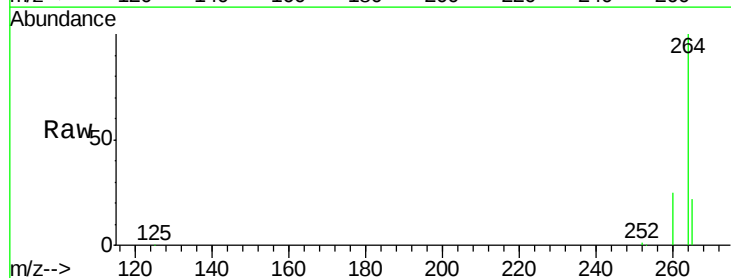
Instrument :  
 BNA\_E  
 ClientSampleId :  
 091315-PRKA-F-U-S

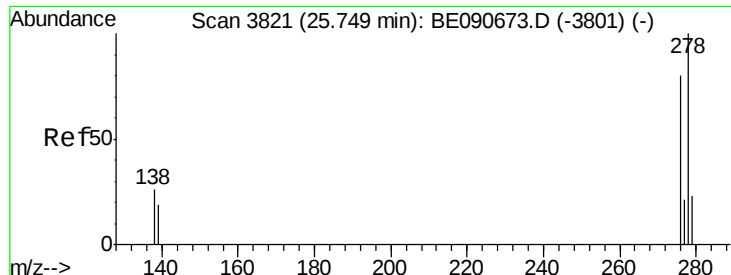
Tot Ion:149 Resp: 1248  
 Ion Ratio Lower Upper  
 149 100  
 167 25.5 20.1 30.1  
 279 6.4 2.3 3.5#



#32  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.35 min Scan# 3297  
 Delta R.T. -0.01 min  
 Lab File: BE090826.D  
 Acq: 15 Sep 2015 7:42

Tgt Ion:264 Resp: 219289  
 Ion Ratio Lower Upper  
 264 100  
 260 25.3 19.7 29.5  
 265 21.7 17.5 26.3





#36

Dibenzo(a,h)anthracene

Concen: 0.14 ng

RT: 25.74 min Scan# 3817

Delta R.T. -0.01 min

Lab File: BE090826.D

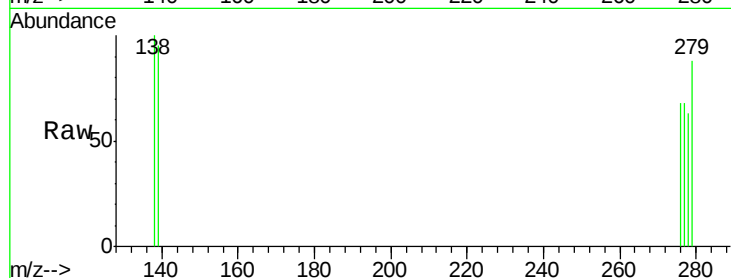
Acq: 15 Sep 2015 7:42

Instrument :

BNA\_E

ClientSampleId :

091315-PRKA-F-U-S



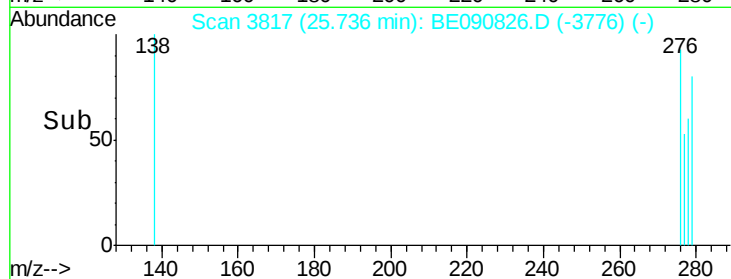
Tot Ion: 278 Resp: 10

Ion Ratio Lower Upper

278 100

139 150.0 15.4 23.0#

279 139.1 18.8 28.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

