

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110816\  
 Data File : BE092510.D  
 Acq On : 8 Nov 2016 15:52  
 Operator : UM/SJ  
 Sample : PB94535BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94535BL

Quant Time: Nov 09 00:49:20 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 16:27:22 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 9353     | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.93 | 136  | 40756    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.80 | 164  | 24615    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 51639    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.72 | 240  | 62514    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.09 | 264  | 62768    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.66  | 112  | 18482    | 8.96 | ng    | 0.00     |
| 5) Phenol-d6                | 7.31  | 99   | 23186    | 8.43 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 9.32  | 82   | 10511    | 3.93 | ng    | -0.02    |
| 13) 2,4,6-Tribromophenol    | 16.29 | 330  | 4152     | 4.81 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl        | 13.42 | 172  | 24869    | 4.09 | ng    | -0.01    |
| 26) Terphenyl-d14           | 20.16 | 244  | 34440    | 4.54 | ng    | -0.02    |

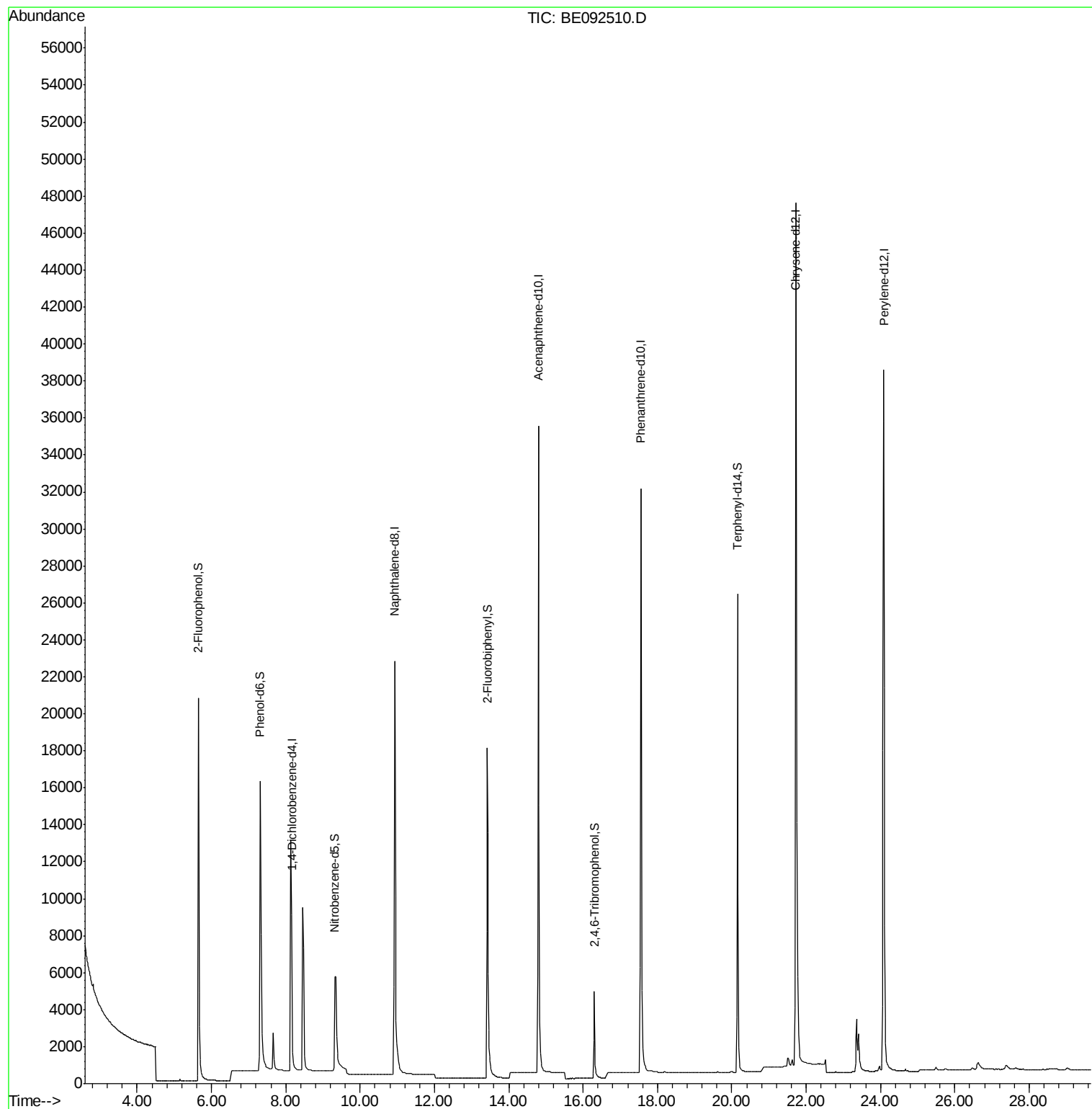
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

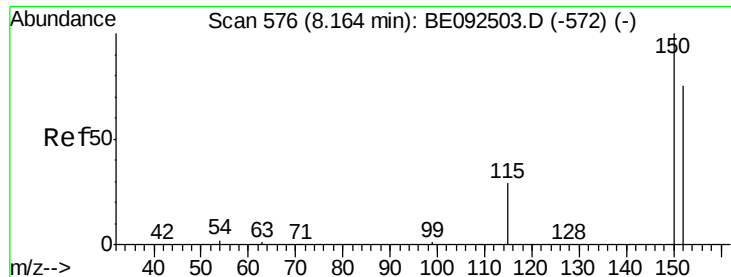
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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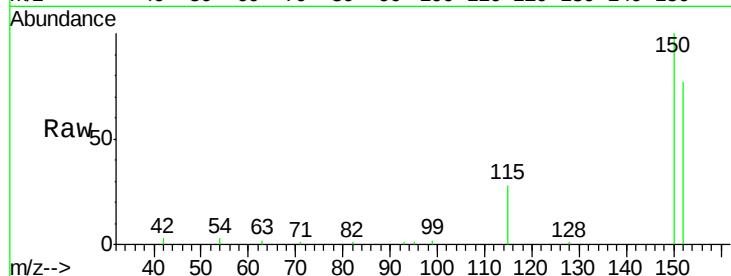


#1

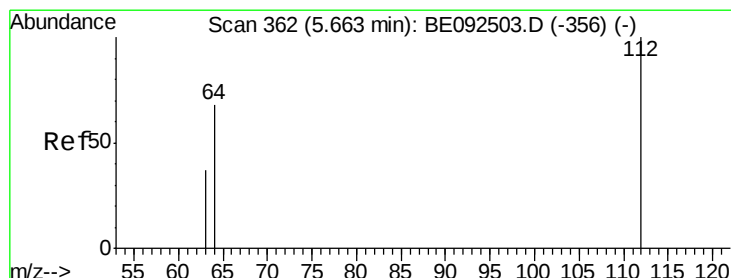
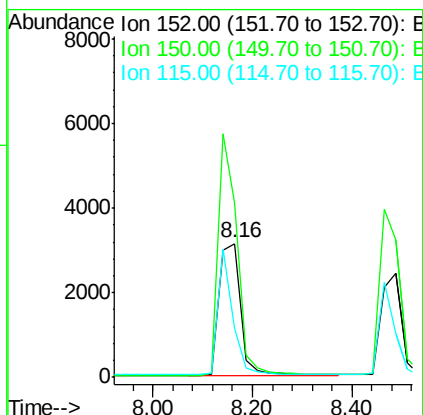
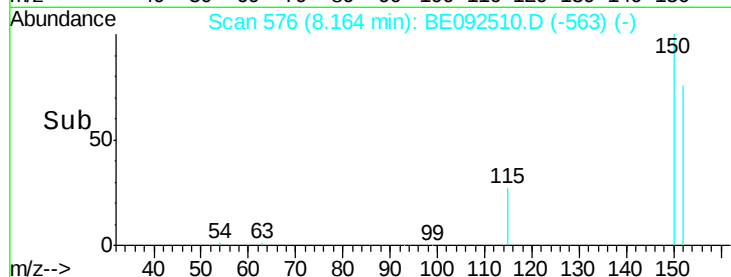
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.16 min Scan# 576  
Delta R.T. 0.00 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

Instrument :  
BNA\_E  
ClientSampleId :  
PB94535BL

Tot Ion:152 Resp: 9353  
Ion Ratio Lower Upper  
152 100  
150 130.5 106.0 159.0  
115 37.0 31.2 46.8



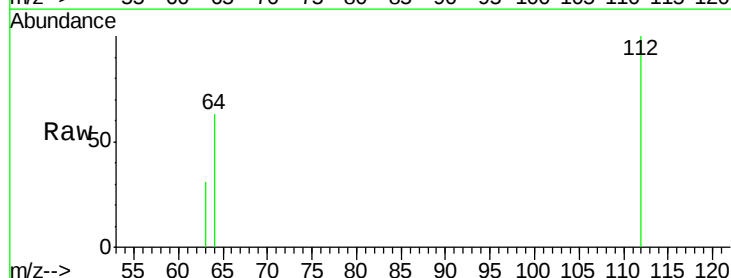
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



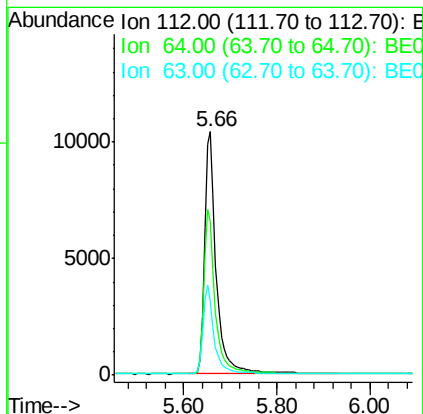
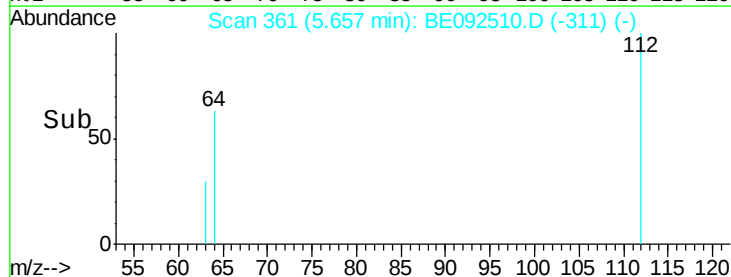
#4

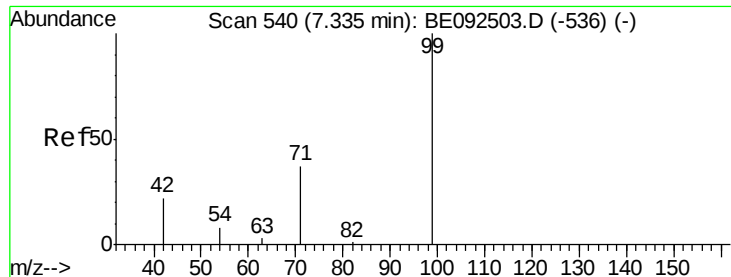
2-Fluorophenol  
Concen: 8.96 ng  
RT: 5.66 min Scan# 361  
Delta R.T. -0.01 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

Tgt Ion:112 Resp: 18482  
Ion Ratio Lower Upper  
112 100  
64 67.3 53.5 80.3  
63 35.6 27.9 41.9



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: 8.43 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

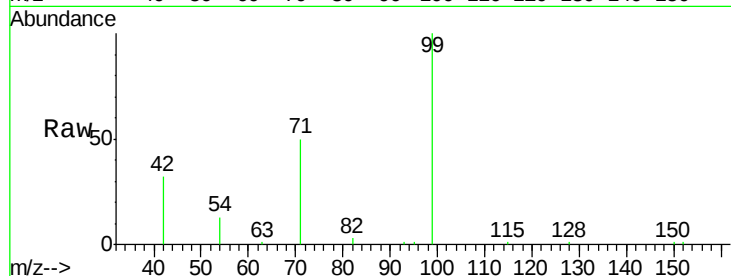
Tot Ion: 99 Resp: 23186

Ion Ratio Lower Upper

99 100

42 23.6 16.0 24.0

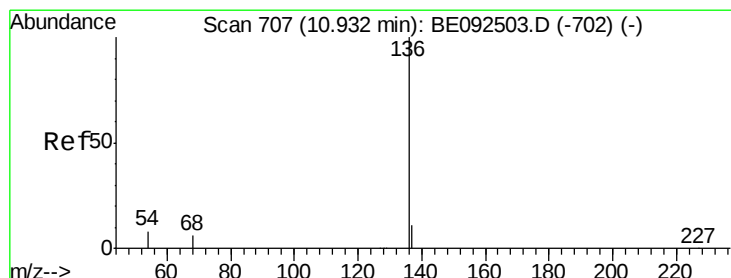
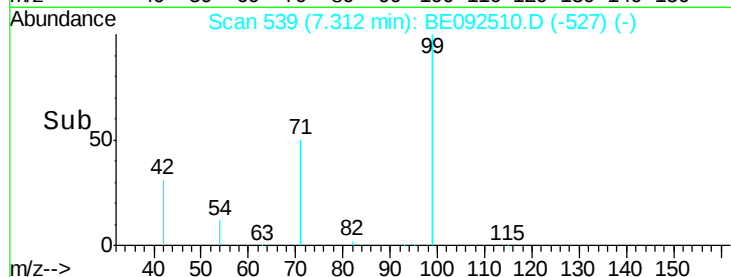
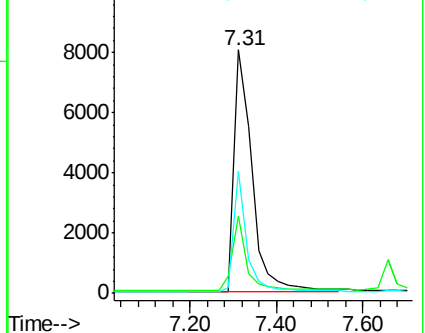
71 36.8 30.6 45.8



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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Tgt Ion: 136 Resp: 40756

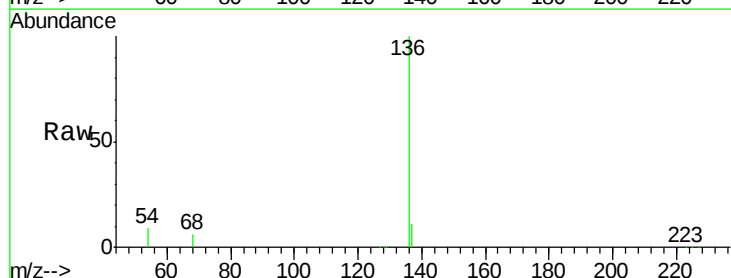
Ion Ratio Lower Upper

136 100

137 10.7 8.2 12.4

54 8.6 9.6 14.4#

68 6.3 6.7 10.1#

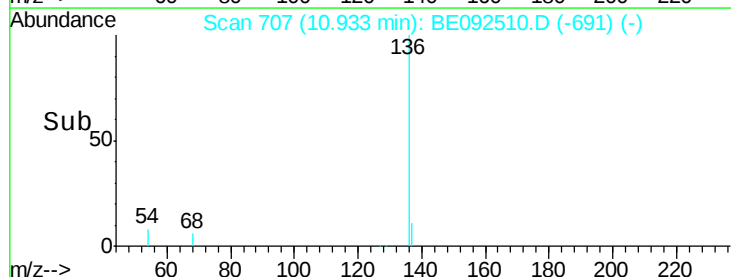
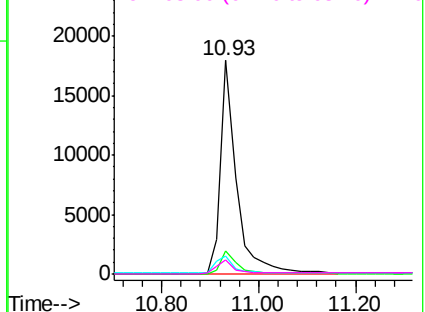


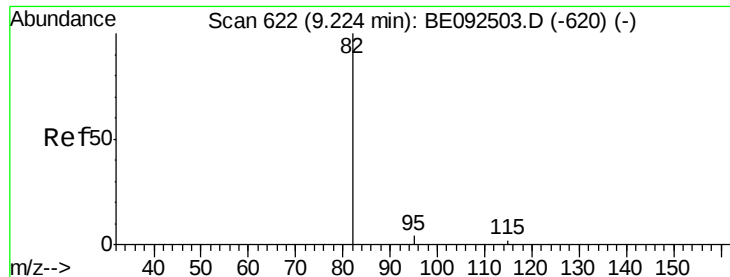
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

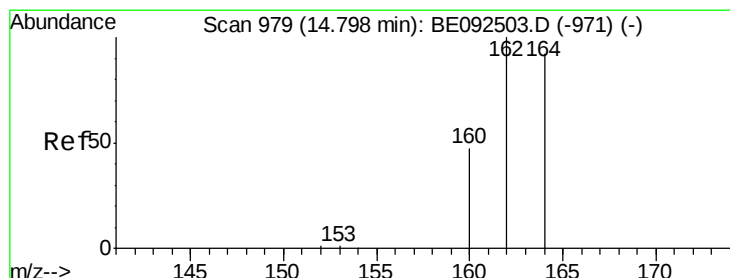
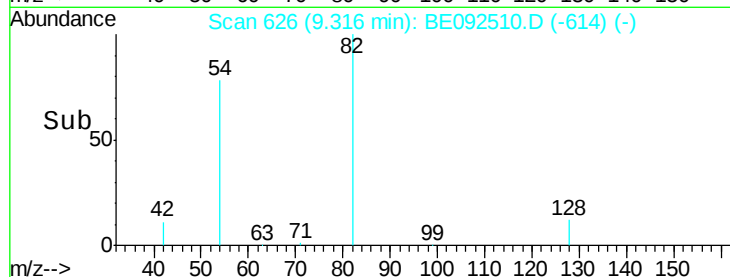
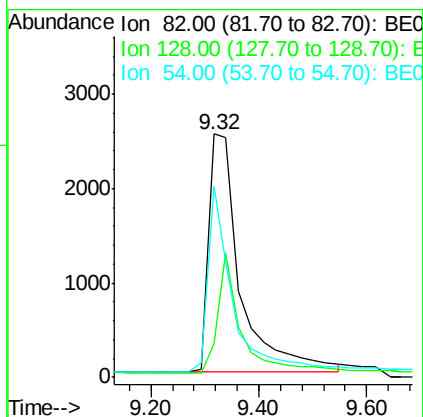
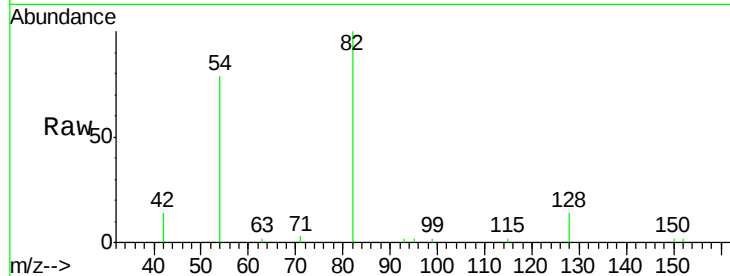




#8  
Nitrobenzene-d5  
Concen: 3.93 ng  
RT: 9.32 min Scan# 626  
Delta R.T. -0.02 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

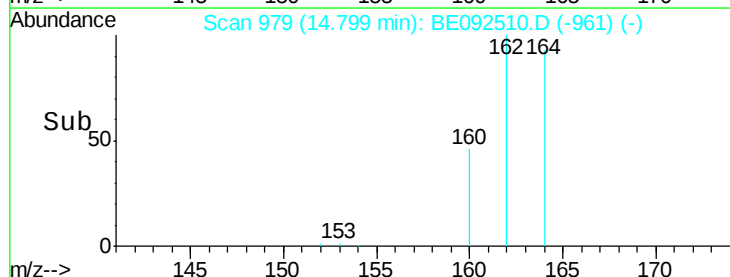
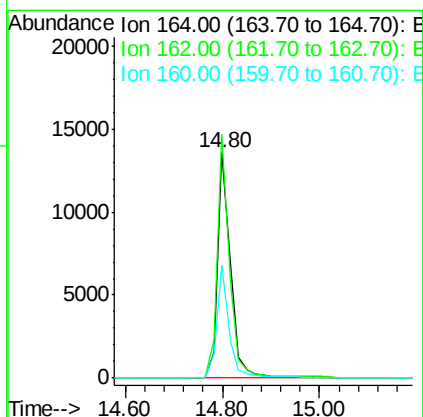
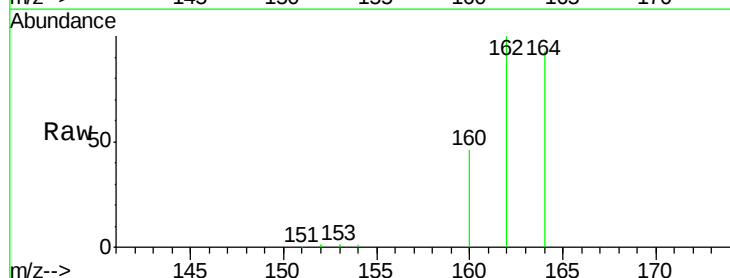
Instrument :  
BNA\_E  
ClientSampleId :  
PB94535BL

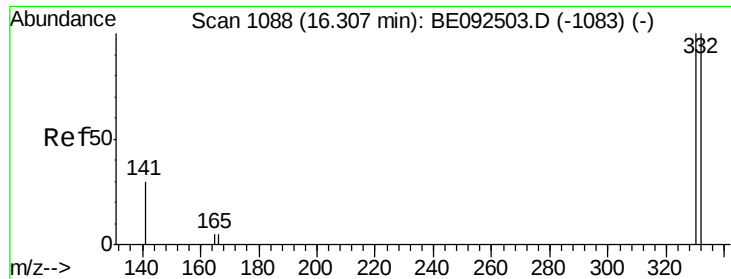
Tot Ion: 82 Resp: 10511  
Ion Ratio Lower Upper  
82 100  
128 13.7 39.0 58.4#  
54 78.7 44.8 67.2#



#12  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.80 min Scan# 979  
Delta R.T. 0.00 min  
Lab File: BE092510.D  
Acq: 8 Nov 2016 15:52

Tgt Ion: 164 Resp: 24615  
Ion Ratio Lower Upper  
164 100  
162 108.0 71.4 107.0#  
160 50.1 27.4 41.2#

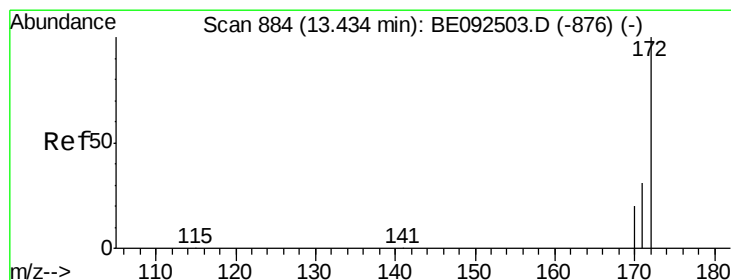
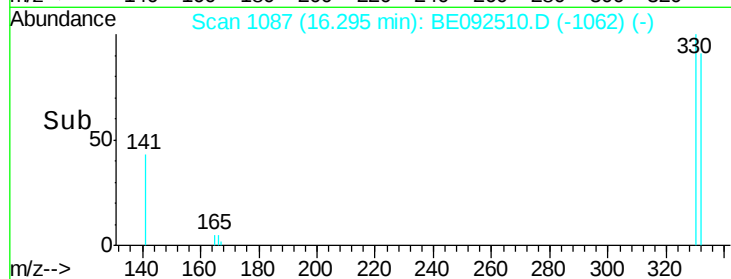
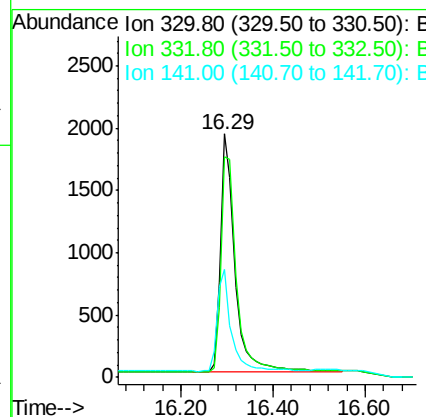
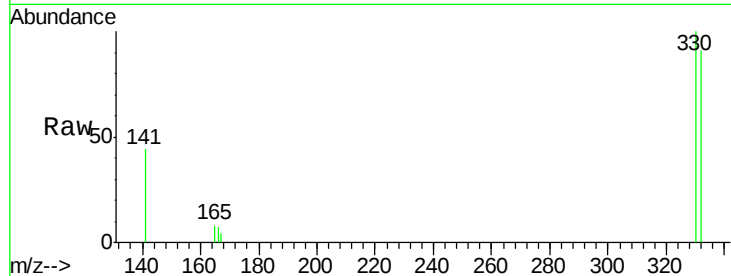




#13  
 2,4,6-Tribromophenol  
 Concen: 4.81 ng  
 RT: 16.29 min Scan# 1087  
 Delta R.T. -0.01 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

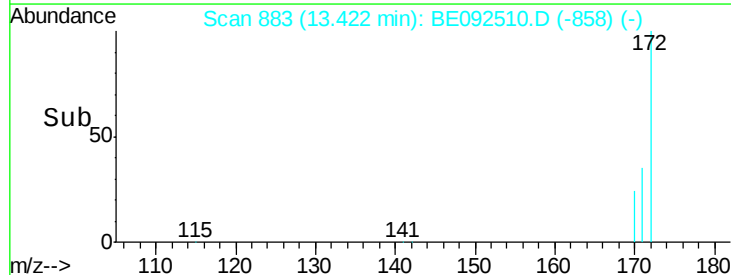
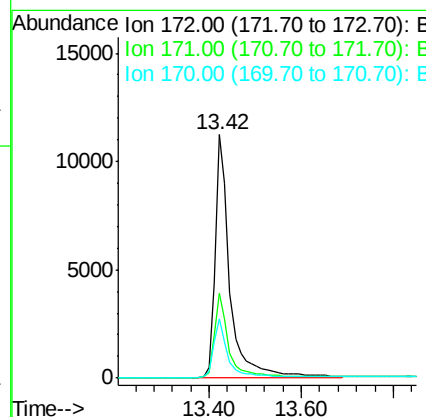
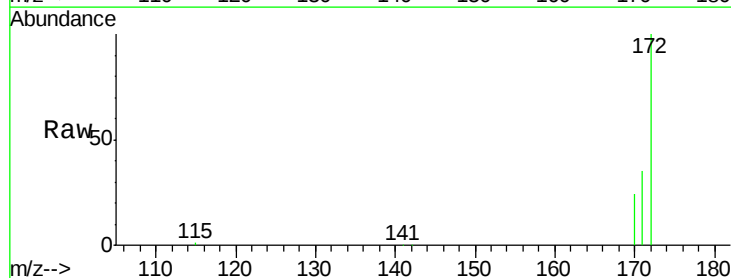
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB94535BL

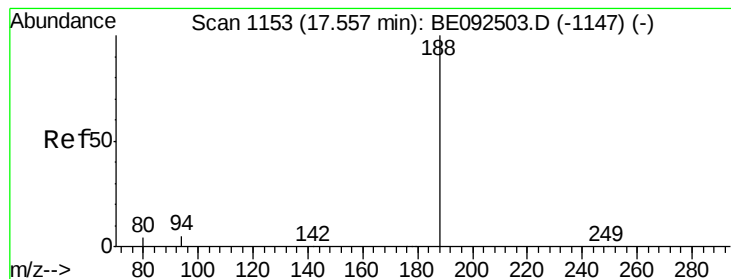
Tot Ion:330 Resp: 4152  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 75.4 113.0  
 141 42.5 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 4.09 ng  
 RT: 13.42 min Scan# 883  
 Delta R.T. -0.01 min  
 Lab File: BE092510.D  
 Acq: 8 Nov 2016 15:52

Tgt Ion:172 Resp: 24869  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 30.1 45.1  
 170 24.4 21.8 32.6





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

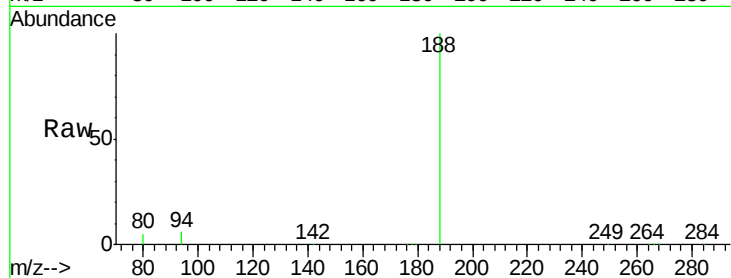
Tot Ion:188 Resp: 51639

Ion Ratio Lower Upper

188 100

94 6.0 3.2 4.8#

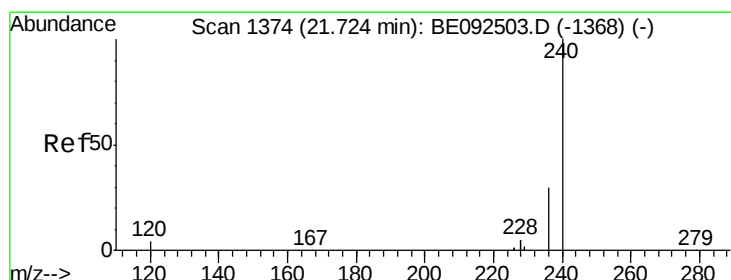
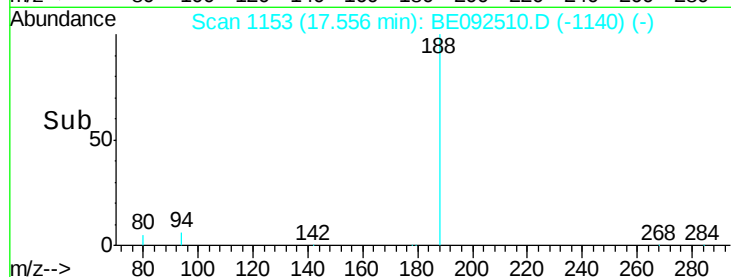
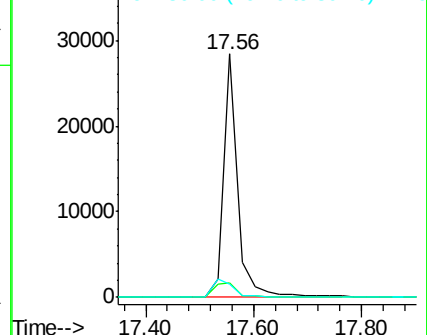
80 5.5 2.6 3.8#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

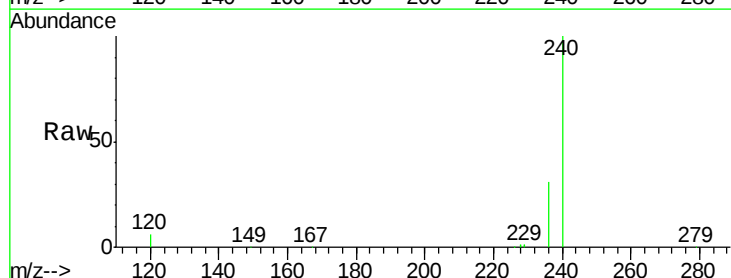
Tgt Ion:240 Resp: 62514

Ion Ratio Lower Upper

240 100

120 5.9 2.6 4.0#

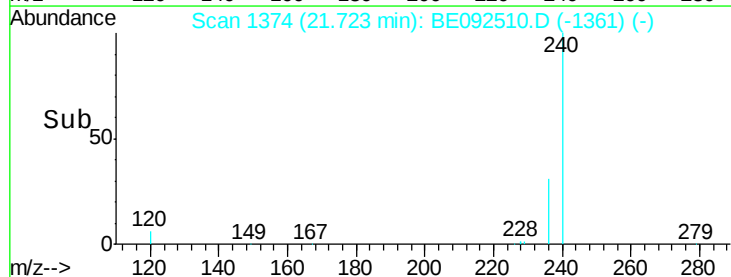
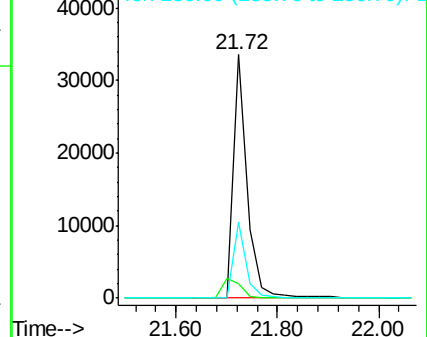
236 31.1 24.6 37.0

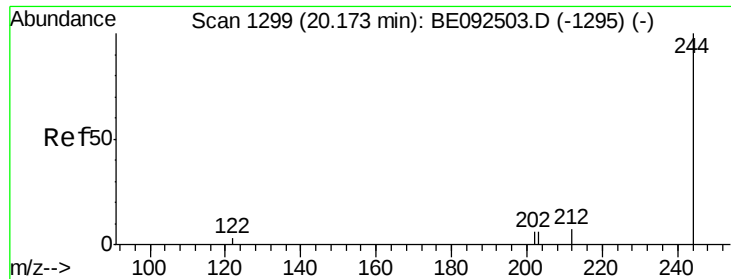


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#26

Terphenyl-d14

Concen: 4.54 ng

RT: 20.16 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

Instrument :

BNA\_E

ClientSampleId :

PB94535BL

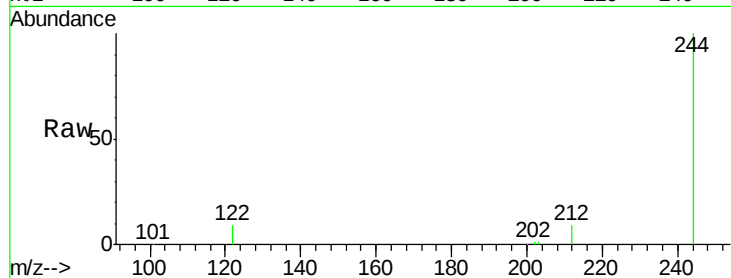
Tot Ion:244 Resp: 34440

Ion Ratio Lower Upper

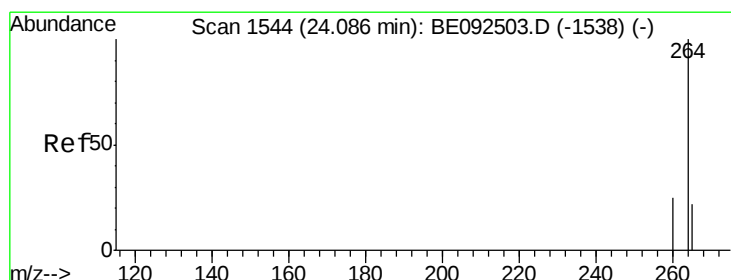
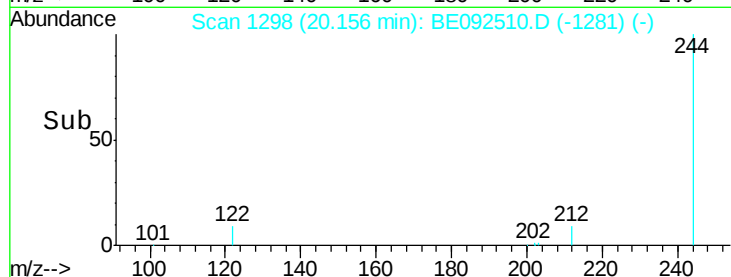
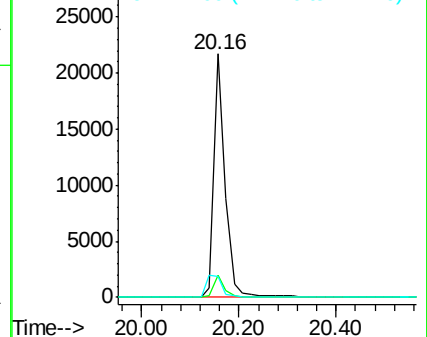
244 100

212 9.1 6.7 10.1

122 8.8 3.6 5.4#



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



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.09 min Scan# 1544

Delta R.T. 0.00 min

Lab File: BE092510.D

Acq: 8 Nov 2016 15:52

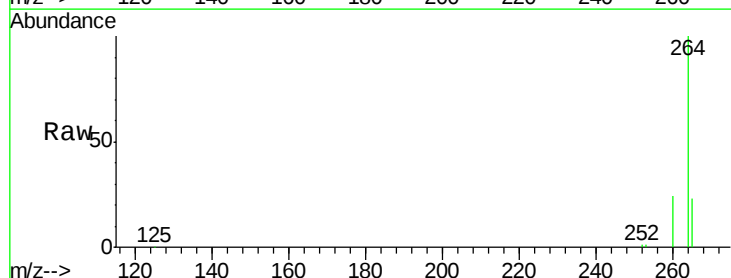
Tgt Ion:264 Resp: 62768

Ion Ratio Lower Upper

264 100

260 23.6 20.1 30.1

265 22.7 17.9 26.9



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

