

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120817\  
 Data File : BE094957.D  
 Acq On : 8 Dec 2017 20:08  
 Operator : SJ/JU  
 Sample : I6740-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Dec 09 00:28:15 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 01 13:33:28 2017  
 Response via : Initial Calibration

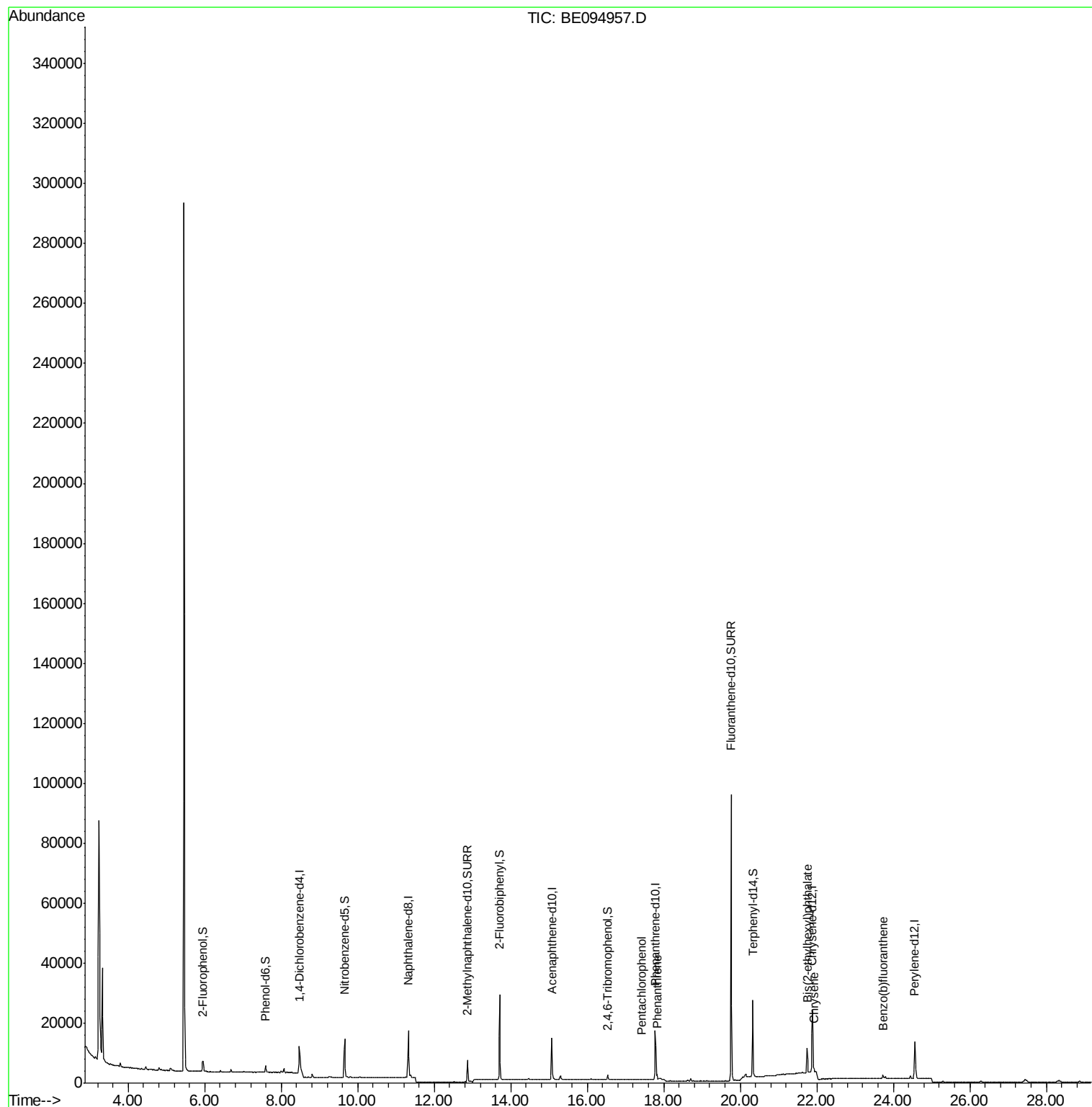
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.47  | 152  | 7419     | 0.40  | ng    | -0.01     |
| 7) Naphthalene-d8              | 11.33 | 136  | 17155    | 0.40  | ng    | 0.00      |
| 13) Acenaphthene-d10           | 15.08 | 164  | 9689     | 0.40  | ng    | 0.00      |
| 19) Phenanthrene-d10           | 17.77 | 188  | 23946    | 0.40  | ng    | 0.00      |
| 27) Chrysene-d12               | 21.88 | 240  | 24958    | 0.40  | ng    | 0.00      |
| 34) Perylene-d12               | 24.56 | 264  | 19880    | 0.40  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 4) 2-Fluorophenol              | 5.96  | 112  | 1965     | 0.17  | ng    | 0.00      |
| 5) Phenol-d6                   | 7.59  | 99   | 1929     | 0.11  | ng    | 0.00      |
| 8) Nitrobenzene-d5             | 9.66  | 82   | 5477     | 0.54  | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10    | 12.86 | 152  | 9861     | 0.36  | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol       | 16.53 | 330  | 924      | 0.46  | ng    | 0.00      |
| 15) 2-Fluorobiphenyl           | 13.71 | 172  | 25499    | 0.61  | ng    | 0.00      |
| 25) Fluoranthene-d10           | 19.76 | 212  | 115814   | 0.35  | ng    | 0.00      |
| 29) Terphenyl-d14              | 20.33 | 244  | 28657    | 0.62  | ng    | 0.00      |
| Target Compounds               |       |      |          |       |       |           |
| 22) Pentachlorophenol          | 17.41 | 266  | 52       | 0.145 | ng    | Qvalue 91 |
| 23) Phenanthrene               | 17.82 | 178  | 1916     | 0.025 | ng    | # 89      |
| 31) Chrysene                   | 21.92 | 228  | 2063     | 0.024 | ng    | # 70      |
| 32) Bis(2-ethylhexyl)phthalate | 21.74 | 149  | 11566    | 0.091 | ng    | 99        |
| 35) Benzo(b)fluoranthene       | 23.73 | 252  | 1668     | 0.023 | ng    | # 69      |

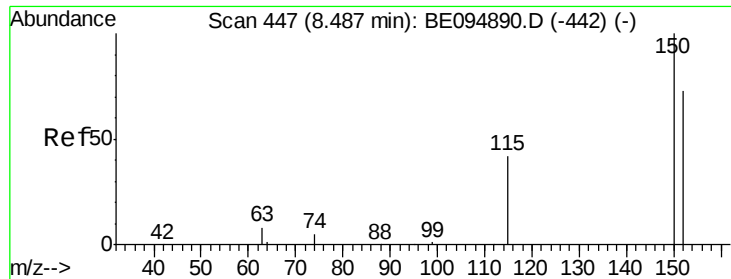
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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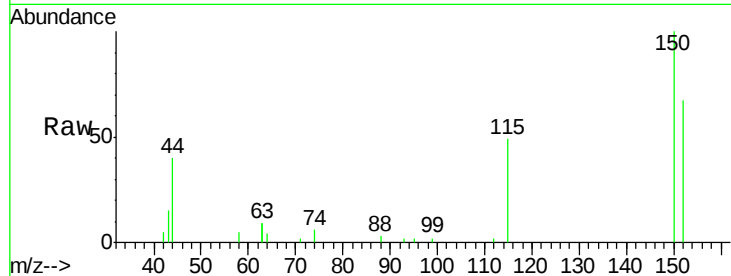


#1

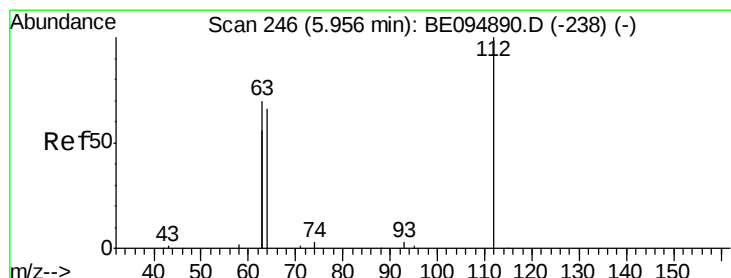
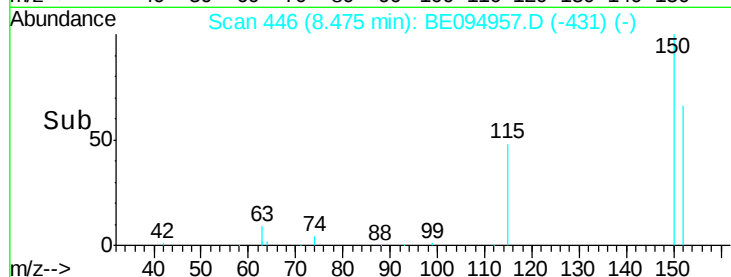
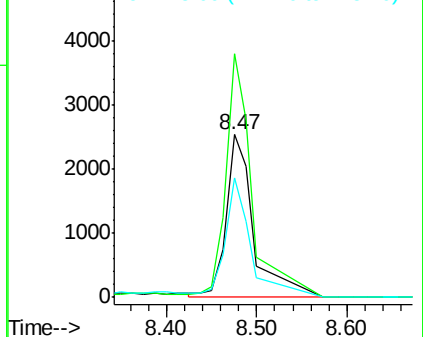
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.47 min Scan# 446  
Delta R.T. -0.01 min  
Lab File: BE094957.D  
Acq: 8 Dec 2017 20:08

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 7419  
Ion Ratio Lower Upper  
152 100  
150 149.5 117.2 175.8  
115 73.4 57.0 85.6



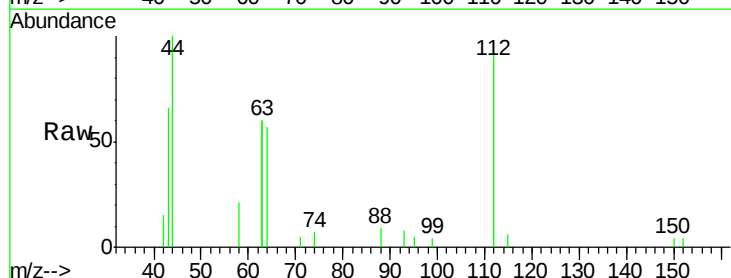
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



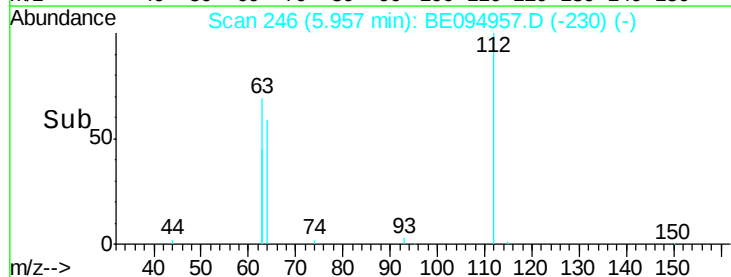
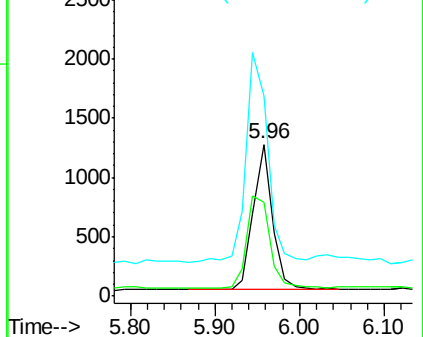
#4

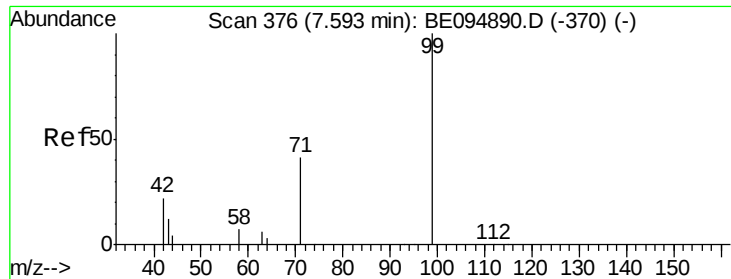
2-Fluorophenol  
Concen: 0.167 ng  
RT: 5.96 min Scan# 246  
Delta R.T. 0.00 min  
Lab File: BE094957.D  
Acq: 8 Dec 2017 20:08

Tgt Ion:112 Resp: 1965  
Ion Ratio Lower Upper  
112 100  
64 75.5 60.1 90.1  
63 160.2 116.8 175.2



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: 0.111 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampleId :

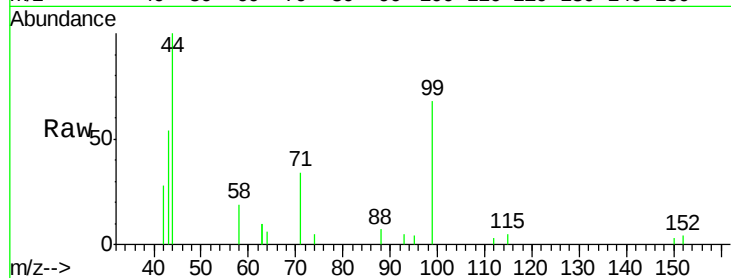
Tot Ion: 99 Resp: 1929

Ion Ratio Lower Upper

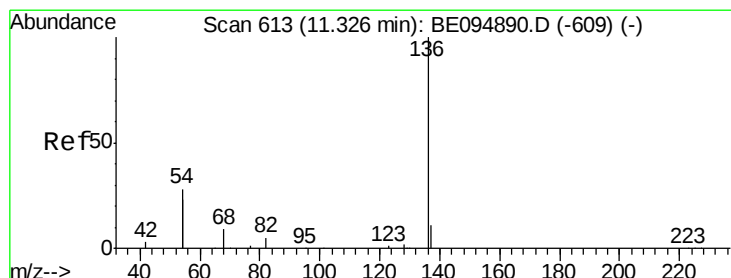
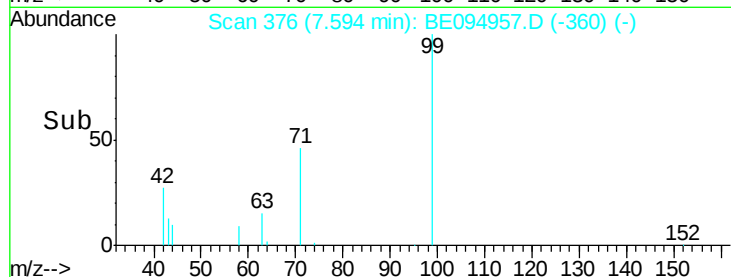
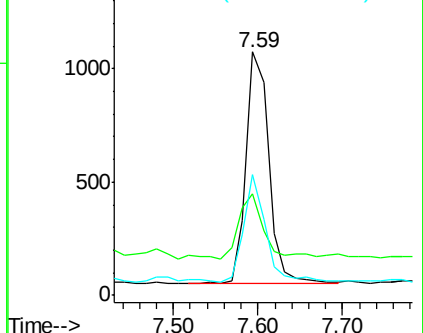
99 100

42 33.9 20.2 30.2#

71 44.0 28.4 42.6#



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: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Tgt Ion:136 Resp: 17155

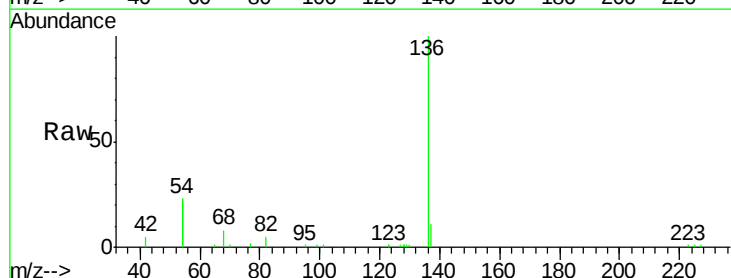
Ion Ratio Lower Upper

136 100

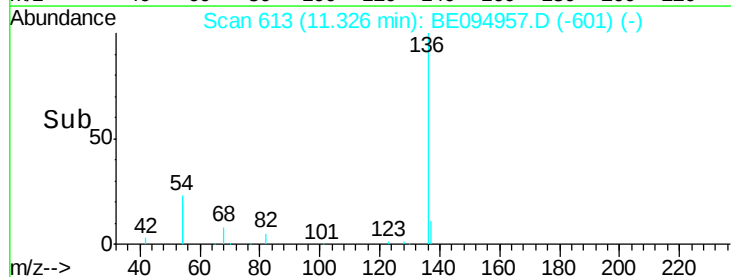
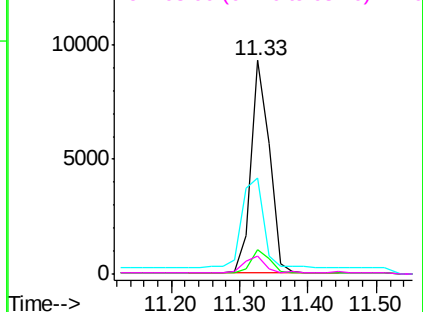
137 11.3 9.5 14.3

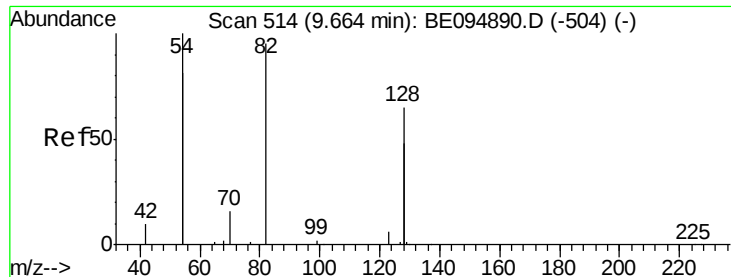
54 45.1 29.1 43.7#

68 8.4 6.2 9.2



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: 0.539 ng

RT: 9.66 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampled :

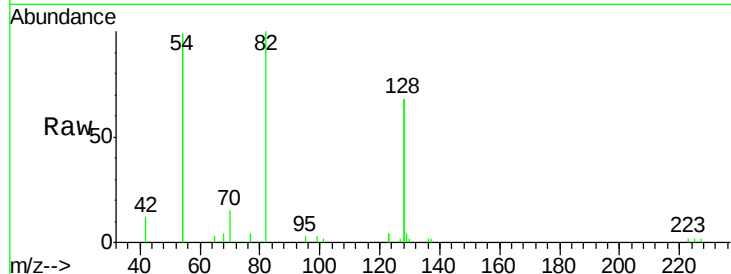
Tot Ion: 82 Resp: 5477

Ion Ratio Lower Upper

82 100

128 136.3 150.0 225.0#

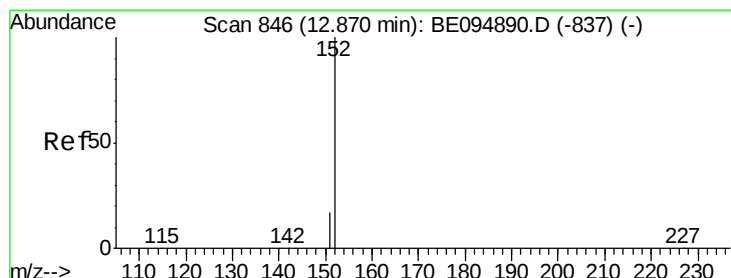
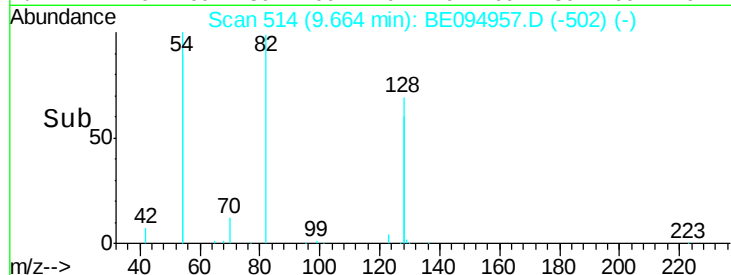
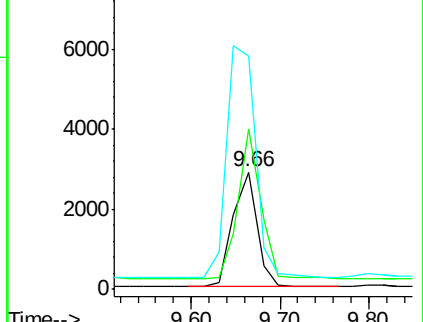
54 198.4 154.2 231.4



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



#11

2-Methylnaphthalene-d10

Concen: 0.360 ng

RT: 12.86 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE094957.D

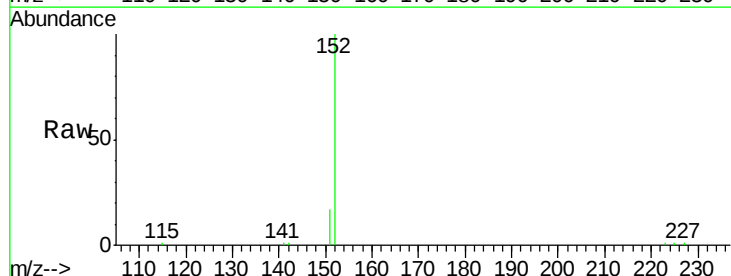
Acq: 8 Dec 2017 20:08

Tgt Ion: 152 Resp: 9861

Ion Ratio Lower Upper

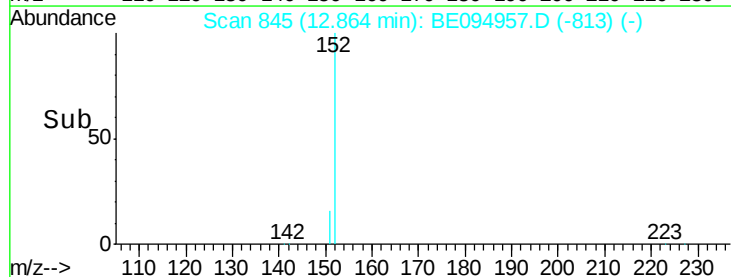
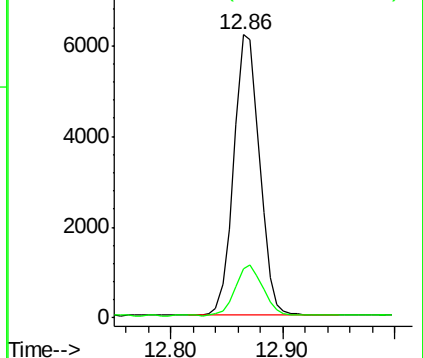
152 100

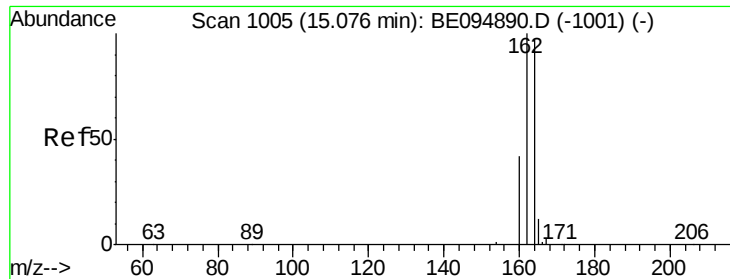
151 19.1 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.08 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampleId :

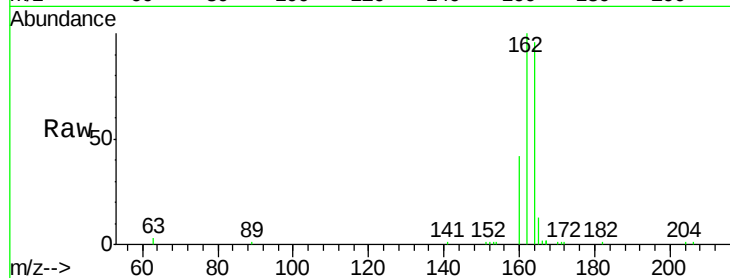
Tot Ion:164 Resp: 9689

Ion Ratio Lower Upper

164 100

162 104.7 83.1 124.7

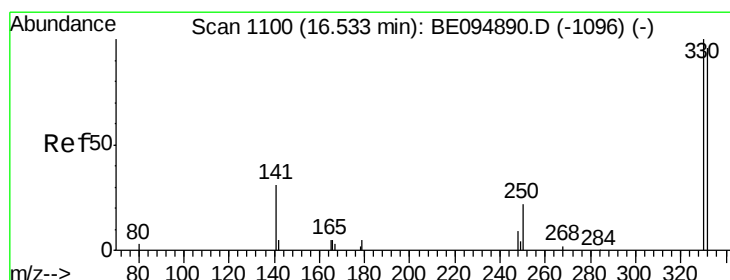
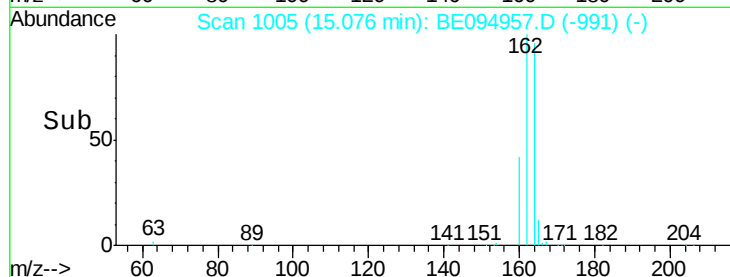
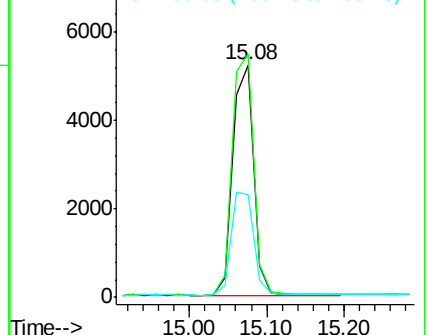
160 44.4 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.457 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

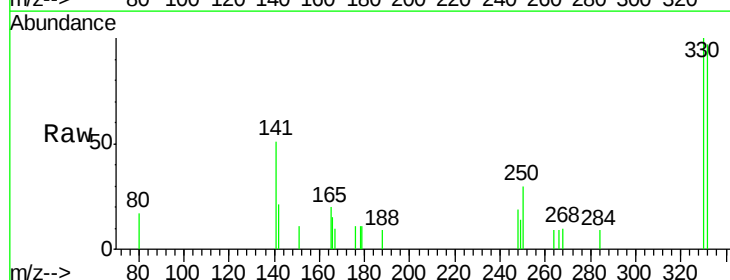
Tgt Ion:330 Resp: 924

Ion Ratio Lower Upper

330 100

332 99.1 152.7 229.1#

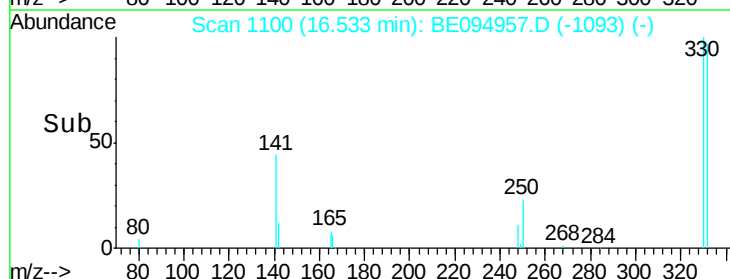
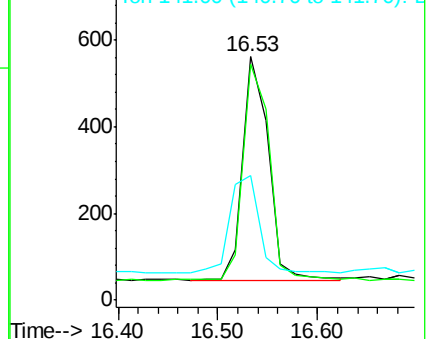
141 49.4 33.7 50.5

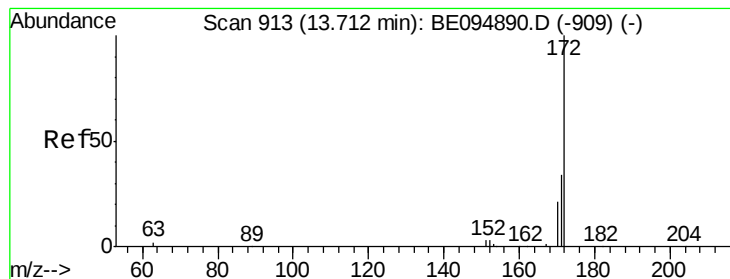


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

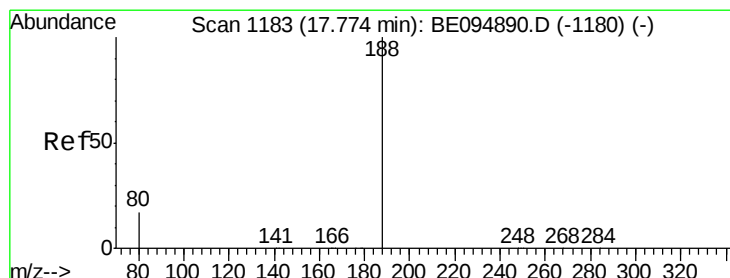
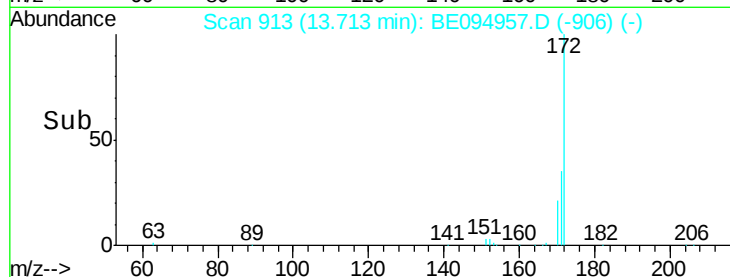
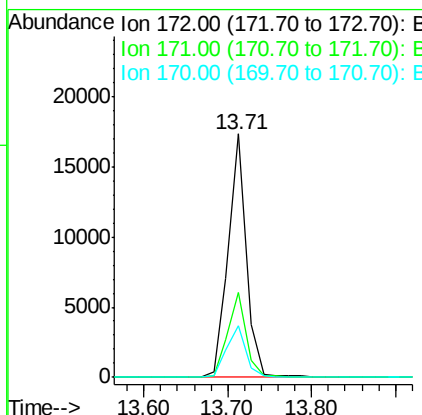
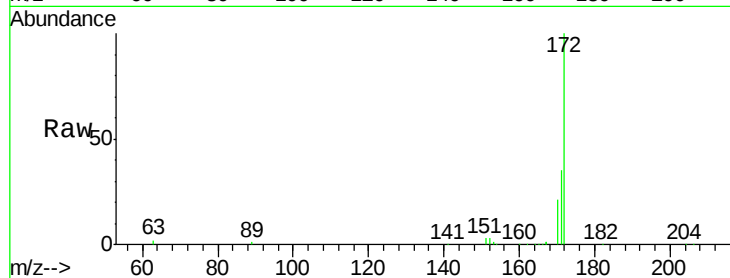




#15  
2-Fluorobiphenyl  
Concen: 0.615 ng  
RT: 13.71 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: BE094957.D  
Acq: 8 Dec 2017 20:08

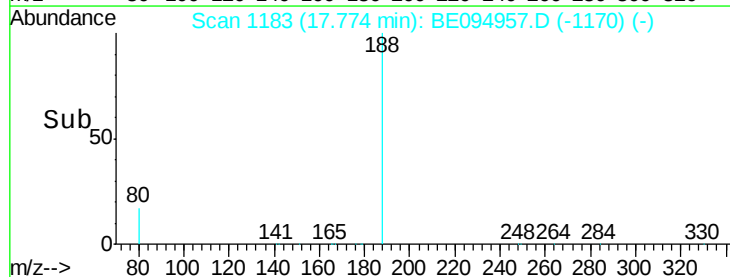
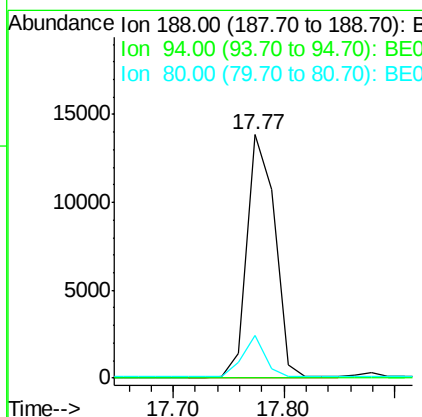
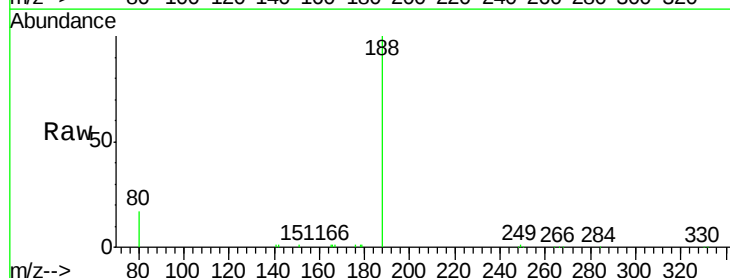
Instrument :  
BNA\_E  
ClientSampleId :

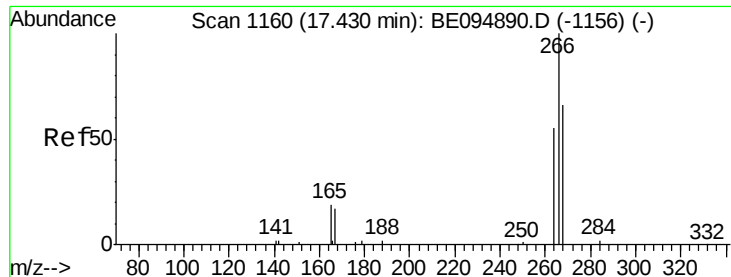
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 29.9  | 44.9  |
| 170     | 20.9  | 21.8  | 32.8  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.77 min Scan# 1183  
Delta R.T. 0.00 min  
Lab File: BE094957.D  
Acq: 8 Dec 2017 20:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 3.9   | 5.9   |
| 80      | 17.4  | 3.6   | 5.4   |





#22

Pentachlorophenol

Concen: 0.145 ng

RT: 17.41 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampleId :

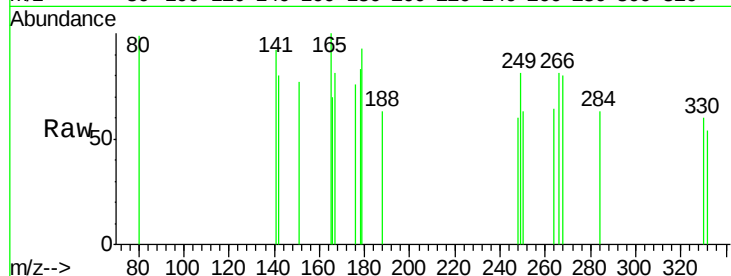
Tot Ion:266 Resp: 52

Ion Ratio Lower Upper

266 100

264 79.4 72.5 108.7

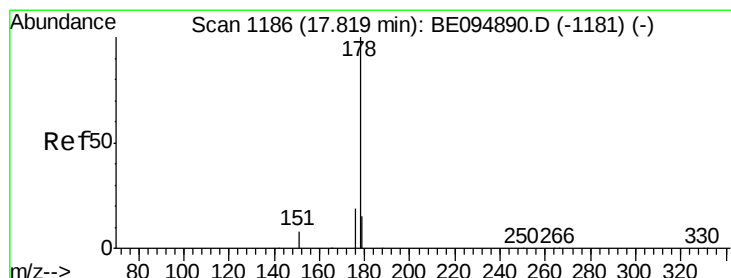
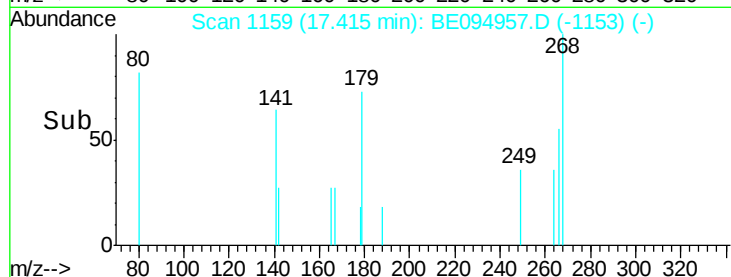
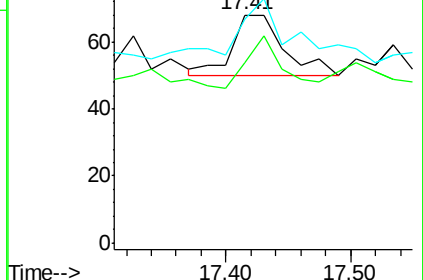
268 98.5 73.8 110.6



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 0.025 ng

RT: 17.82 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

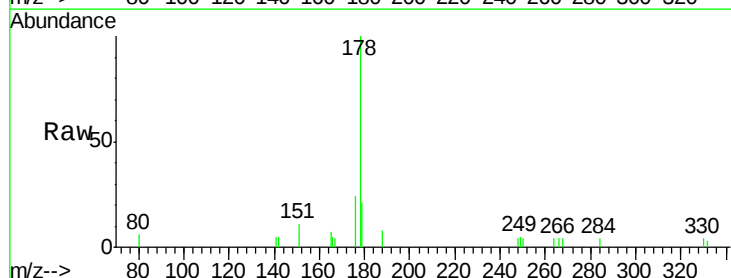
Tgt Ion:178 Resp: 1916

Ion Ratio Lower Upper

178 100

176 24.6 15.1 22.7#

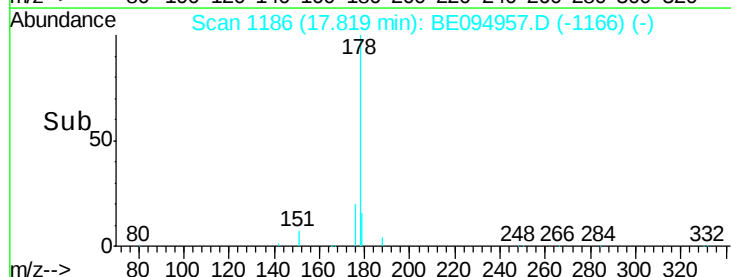
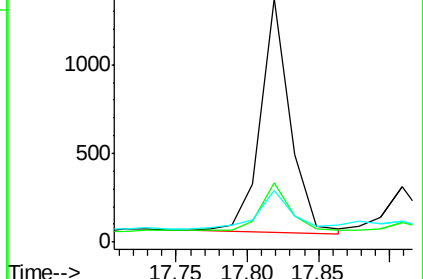
179 18.4 11.8 17.6#

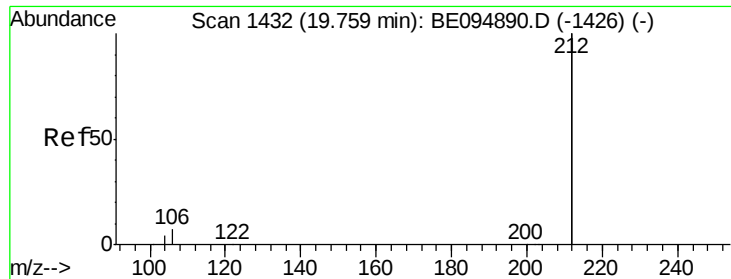


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampleId :

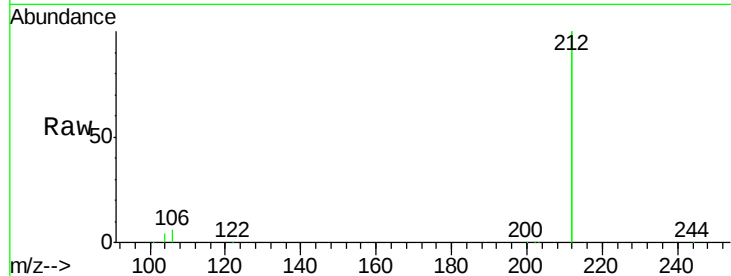
Tot Ion:212 Resp: 115814

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

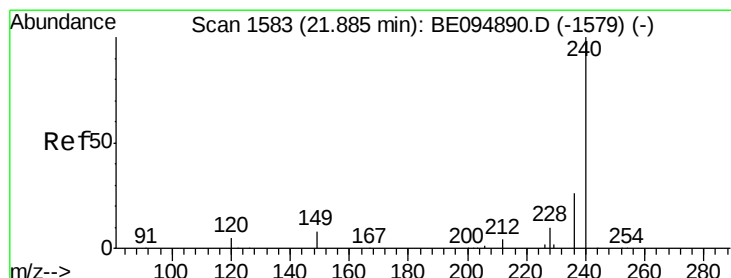
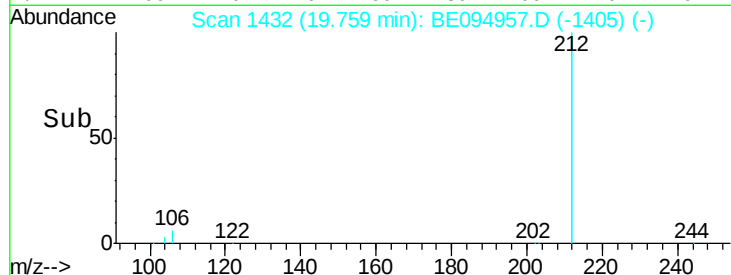
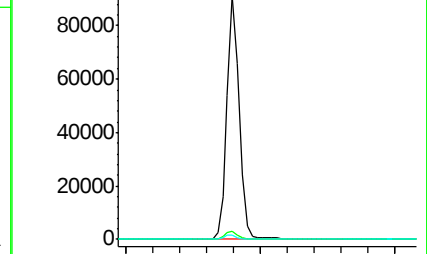
104 2.0 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

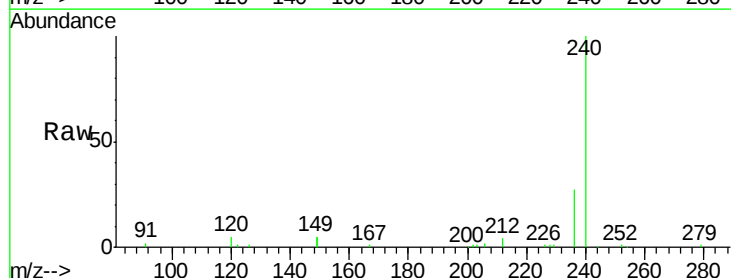
Tgt Ion:240 Resp: 24958

Ion Ratio Lower Upper

240 100

120 4.7 5.5 8.3#

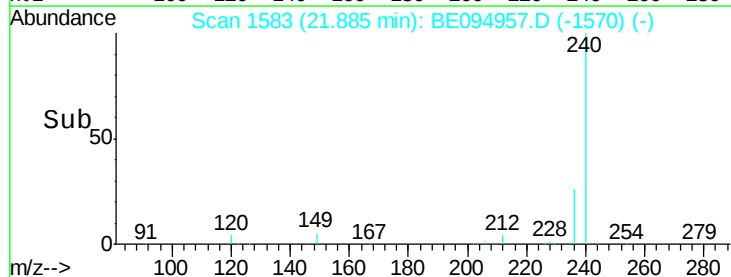
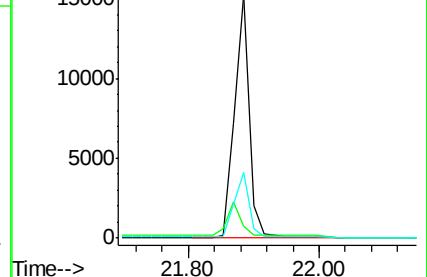
236 26.9 20.7 31.1

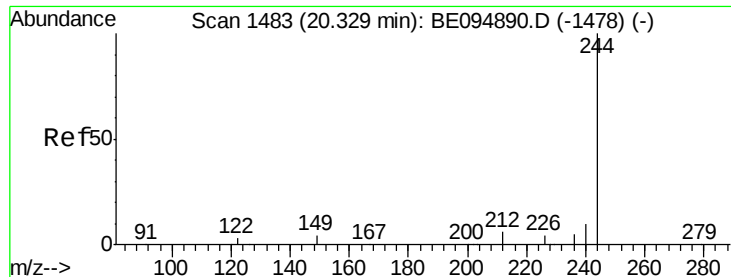


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.622 ng

RT: 20.33 min Scan# 1483

Delta R.T. -0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampled :

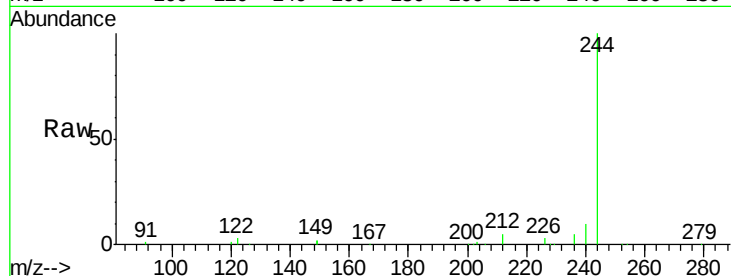
Tot Ion:244 Resp: 28657

Ion Ratio Lower Upper

244 100

212 5.5 25.4 38.0#

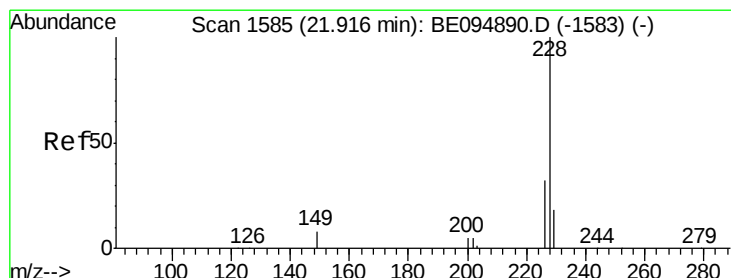
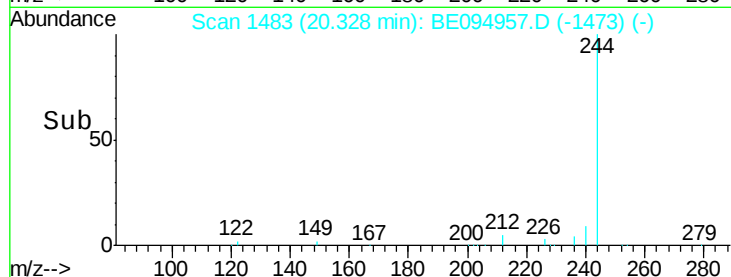
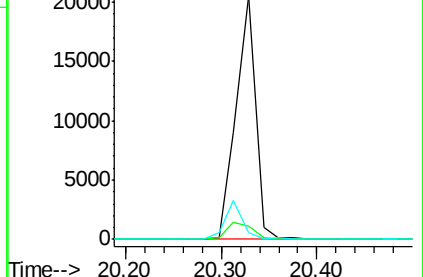
122 2.6 8.1 12.1#



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

Chrysene

Concen: 0.024 ng

RT: 21.92 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

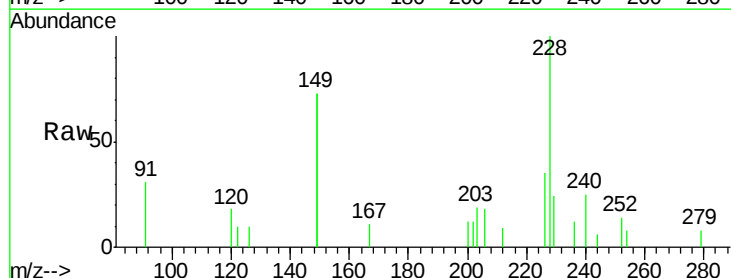
Tgt Ion:228 Resp: 2063

Ion Ratio Lower Upper

228 100

226 34.7 40.0 60.0#

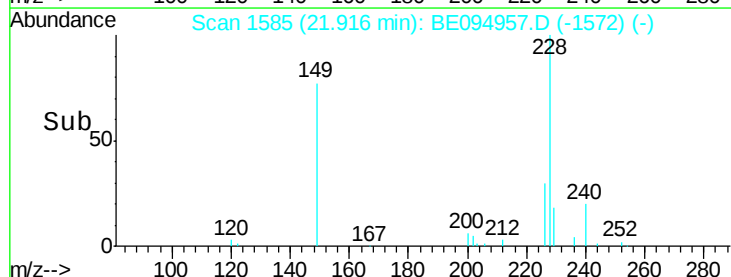
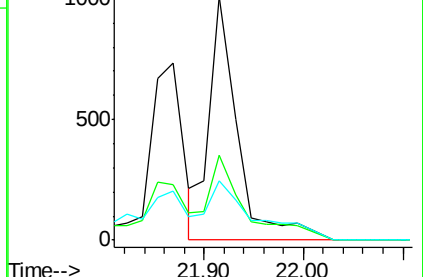
229 24.2 40.0 60.0#

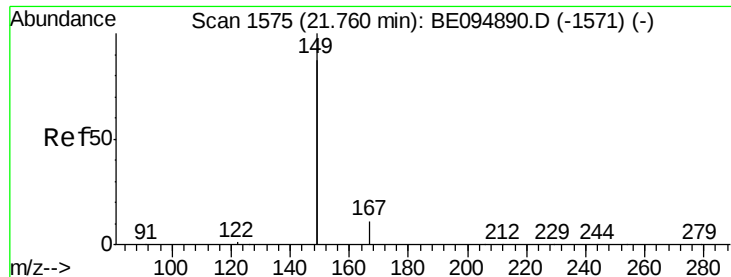


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

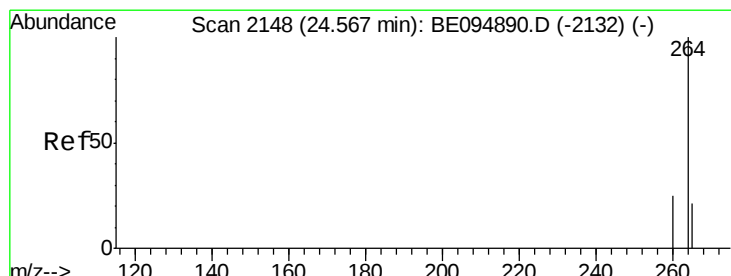
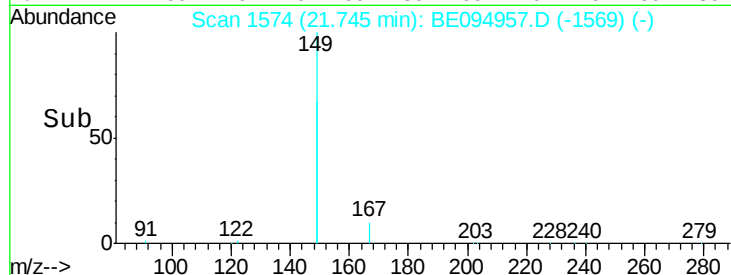
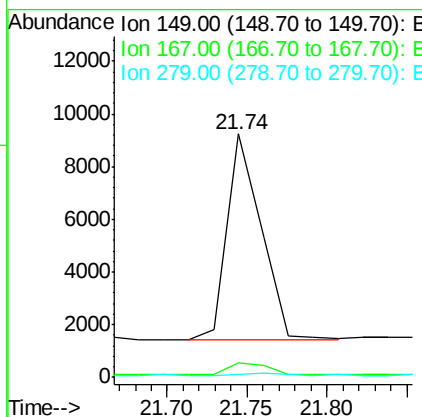
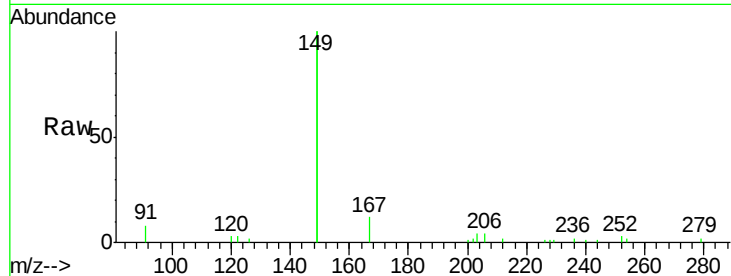




#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.091 ng  
 RT: 21.74 min Scan# 1574  
 Delta R.T. -0.02 min  
 Lab File: BE094957.D  
 Acq: 8 Dec 2017 20:08

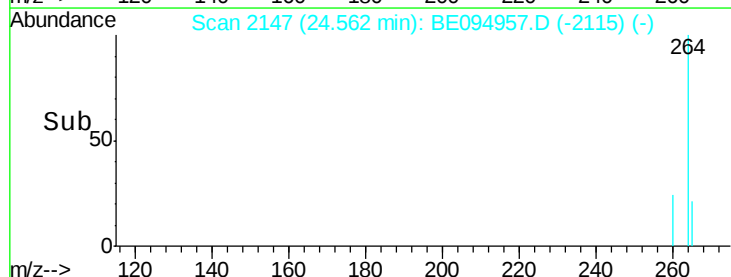
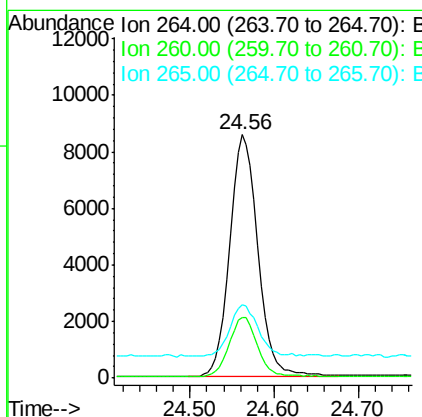
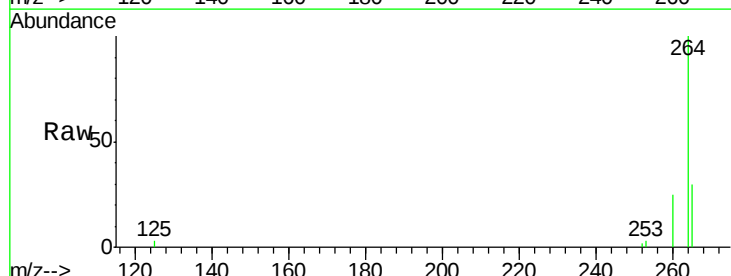
Instrument :  
 BNA\_E  
 ClientSampleId :

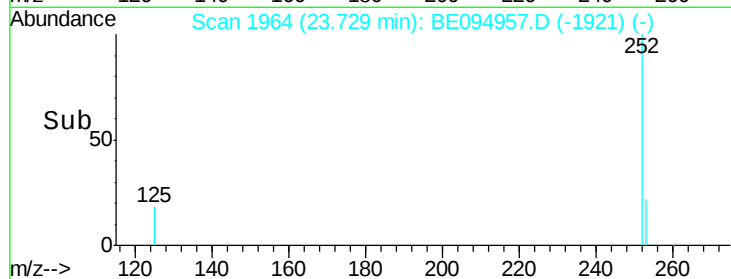
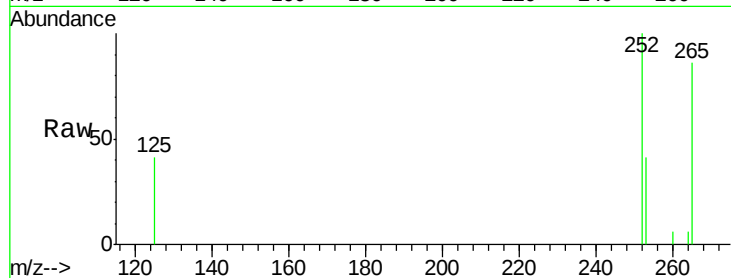
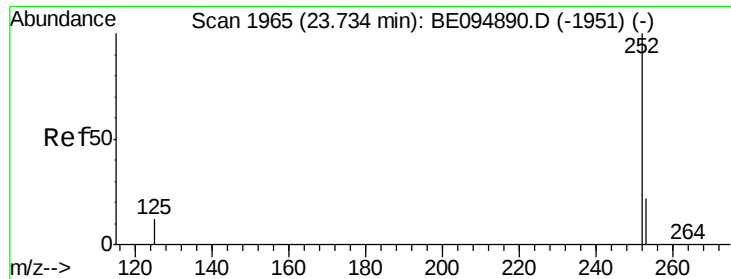
Tot Ion:149 Resp: 11566  
 Ion Ratio Lower Upper  
 149 100  
 167 6.9 5.4 8.0  
 279 1.0 0.7 1.1



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.56 min Scan# 2147  
 Delta R.T. -0.01 min  
 Lab File: BE094957.D  
 Acq: 8 Dec 2017 20:08

Tgt Ion:264 Resp: 19880  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 20.5 30.7  
 265 30.0 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.023 ng

RT: 23.73 min Scan# 1964

Delta R.T. -0.01 min

Lab File: BE094957.D

Acq: 8 Dec 2017 20:08

Instrument :

BNA\_E

ClientSampleId :

Tot Ion: 252 Resp: 1668

Ion Ratio Lower Upper

252 100

253 40.6 48.0 72.0#

125 40.7 56.0 84.0#

