

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF041317\  
 Data File : BF094423.D  
 Acq On : 14 Apr 2017 10:32  
 Operator : SJ/MA  
 Sample : I2672-01 5X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z8-NSW

Quant Time: Apr 14 10:53:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 14 01:21:26 2017  
 Response via : Initial Calibration

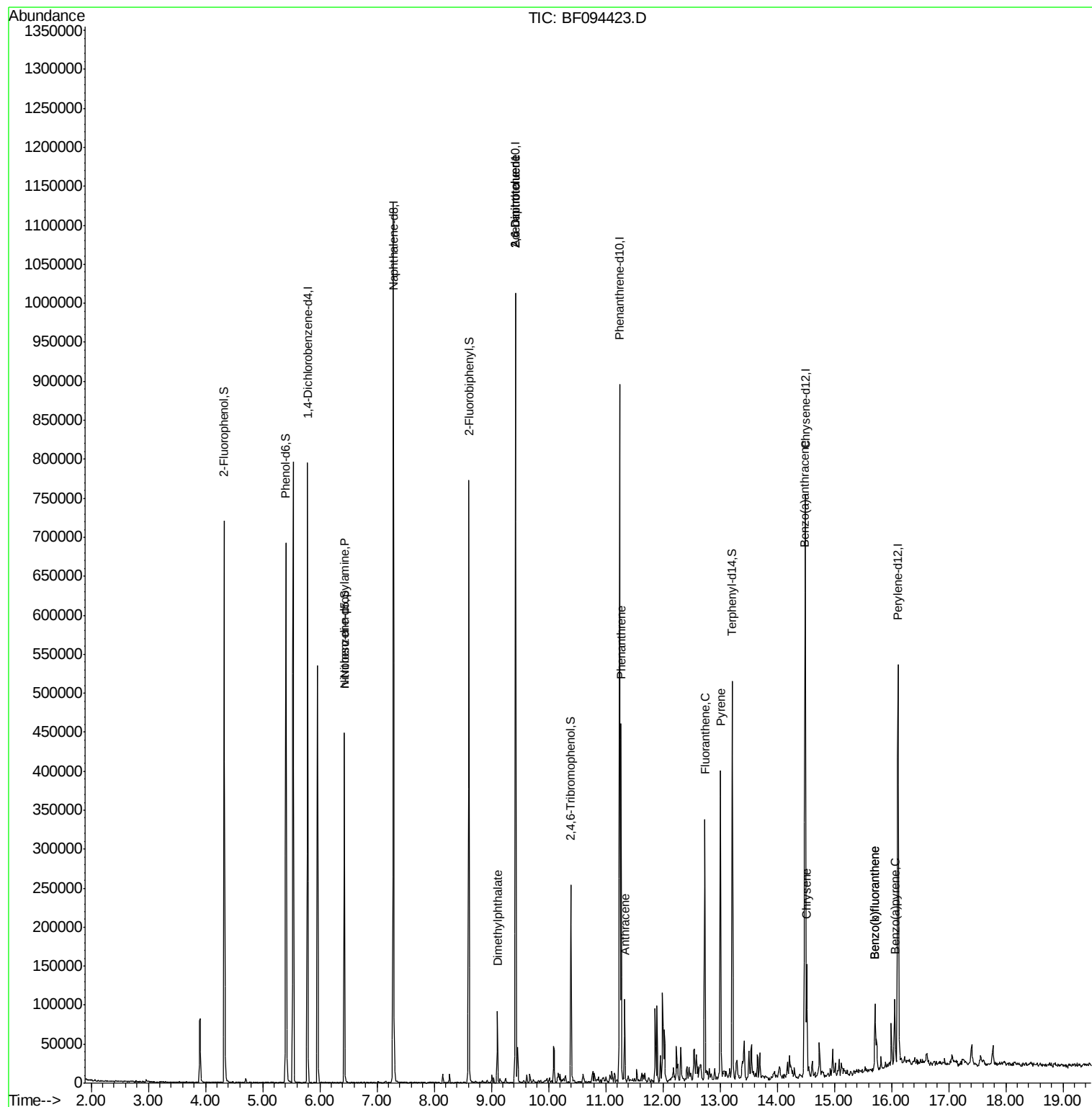
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 5.79  | 152  | 137108   | 20.00 | ng    | -0.04       |
| 21) Naphthalene-d8             | 7.29  | 136  | 530246   | 20.00 | ng    | -0.05       |
| 38) Acenaphthene-d10           | 9.42  | 164  | 222693   | 20.00 | ng    | -0.05       |
| 63) Phenanthrene-d10           | 11.25 | 188  | 340871   | 20.00 | ng    | -0.05       |
| 75) Chrysene-d12               | 14.49 | 240  | 262332   | 20.00 | ng    | -0.06       |
| 86) Perylene-d12               | 16.12 | 264  | 200483   | 20.00 | ng    | -0.06       |
| System Monitoring Compounds    |       |      |          |       |       |             |
| 5) 2-Fluorophenol              | 4.33  | 112  | 200030   | 24.64 | ng    | -0.05       |
| 7) Phenol-d6                   | 5.40  | 99   | 242267   | 24.12 | ng    | -0.06       |
| 23) Nitrobenzene-d5            | 6.43  | 82   | 139361   | 15.00 | ng    | -0.06       |
| 41) 2,4,6-Tribromophenol       | 10.39 | 330  | 28729    | 16.33 | ng    | -0.05       |
| 44) 2-Fluorobiphenyl           | 8.60  | 172  | 262844   | 18.00 | ng    | -0.05       |
| 78) Terphenyl-d14              | 13.22 | 244  | 163607   | 13.98 | ng    | -0.06       |
| Target Compounds               |       |      |          |       |       |             |
| 19) n-Nitroso-di-n-propylamine | 6.43  | 70   | 17481    | 2.71  | ng    | Qvalue # 75 |
| 49) Dimethylphthalate          | 9.10  | 163  | 39195    | 2.48  | ng    | 98          |
| 50) 2,6-Dinitrotoluene         | 9.42  | 165  | 28612    | 7.88  | ng    | # 34        |
| 56) 2,4-Dinitrotoluene         | 9.42  | 165  | 28612    | 6.28  | ng    | # 33        |
| 70) Phenanthrene               | 11.27 | 178  | 187110   | 9.87  | ng    | 98          |
| 71) Anthracene                 | 11.33 | 178  | 43523    | 2.23  | ng    | 97          |
| 74) Fluoranthene               | 12.73 | 202  | 144364   | 7.44  | ng    | 99          |
| 77) Pyrene                     | 13.01 | 202  | 170611   | 8.96  | ng    | 98          |
| 80) Benzo(a)anthracene         | 14.48 | 228  | 59268    | 3.87  | ng    | 99          |
| 82) Chrysene                   | 14.52 | 228  | 57222    | 4.03  | ng    | 97          |
| 87) Benzo(b)fluoranthene       | 15.72 | 252  | 57060    | 4.64  | ng    | # 92        |
| 88) Benzo(k)fluoranthene       | 15.72 | 252  | 57060    | 4.75  | ng    | 96          |
| 89) Benzo(a)pyrene             | 16.06 | 252  | 35325    | 3.12  | ng    | 99          |

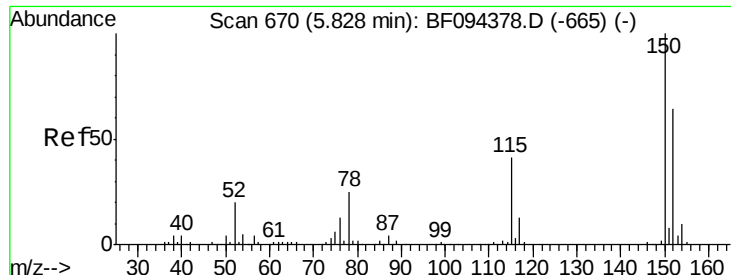
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 14 01:21:26 2017  
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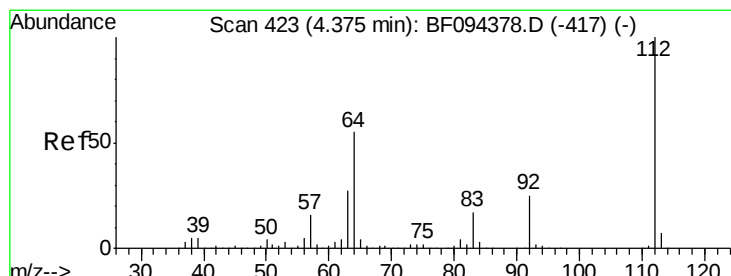
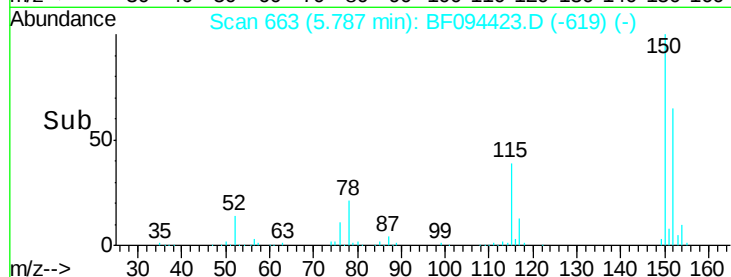
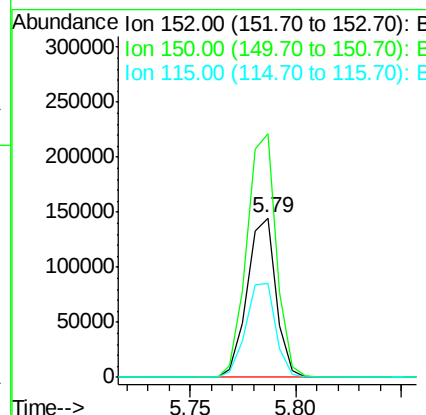
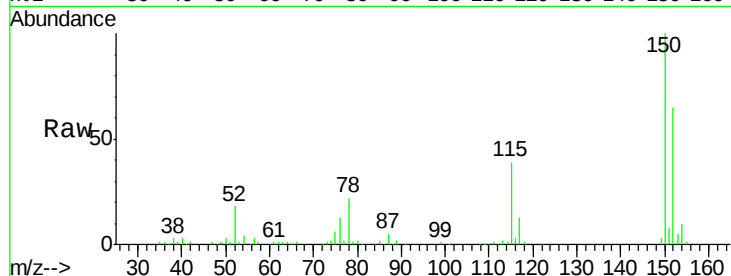




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.79 min Scan# 663  
 Delta R.T. -0.04 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

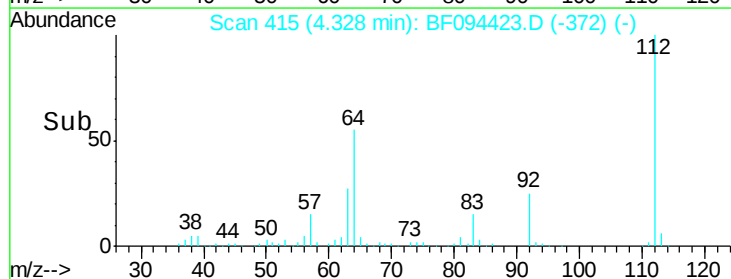
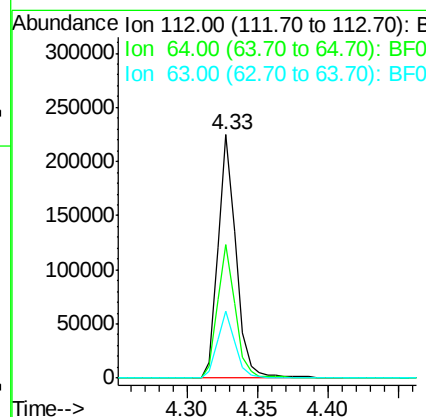
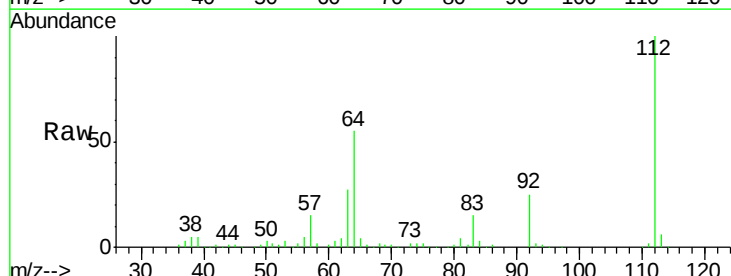
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z8-NSW

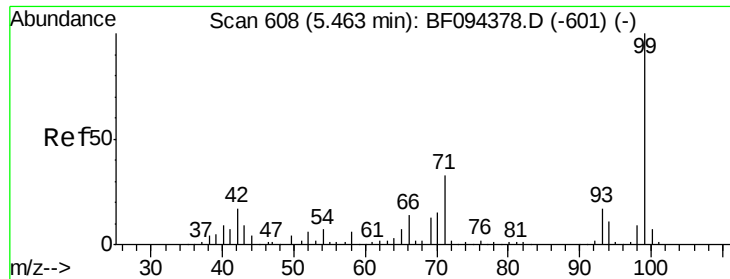
Tgt Ion:152 Resp: 137108  
 Ion Ratio Lower Upper  
 152 100  
 150 152.8 126.2 189.2  
 115 59.2 52.2 78.2



#5  
 2-Fluorophenol  
 Concen: 24.64 ng  
 RT: 4.33 min Scan# 415  
 Delta R.T. -0.05 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Tgt Ion:112 Resp: 200030  
 Ion Ratio Lower Upper  
 112 100  
 64 54.9 46.0 69.0  
 63 27.3 23.4 35.0





#7

Phenol-d6

Concen: 24.12 ng

RT: 5.40 min Scan# 598

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

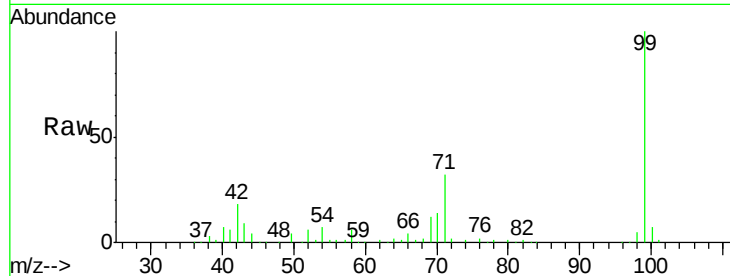
Tgt Ion: 99 Resp: 242267

Ion Ratio Lower Upper

99 100

42 17.6 13.5 20.3

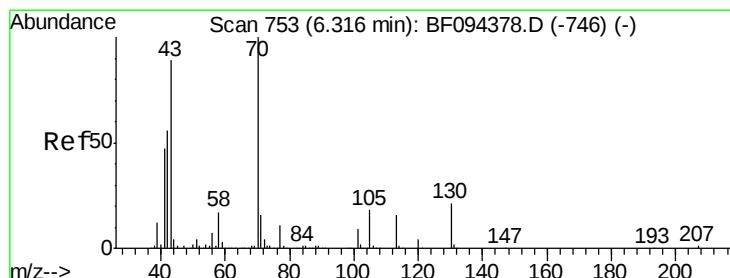
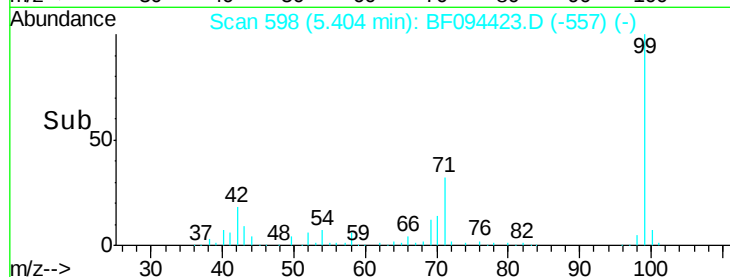
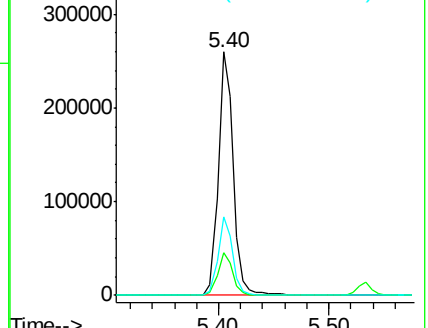
71 32.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.71 ng

RT: 6.43 min Scan# 772

Delta R.T. 0.11 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Tgt Ion: 70 Resp: 17481

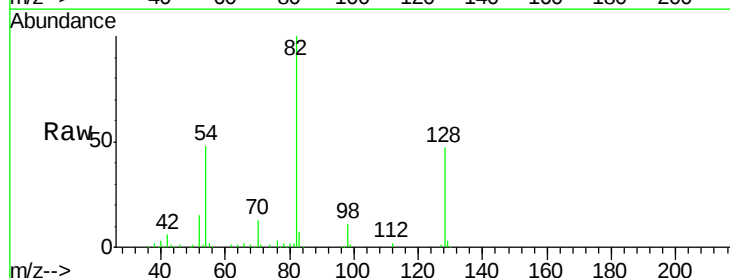
Ion Ratio Lower Upper

70 100

42 44.2 47.2 70.8#

101 0.0 7.2 10.8#

130 1.5 15.9 23.9#

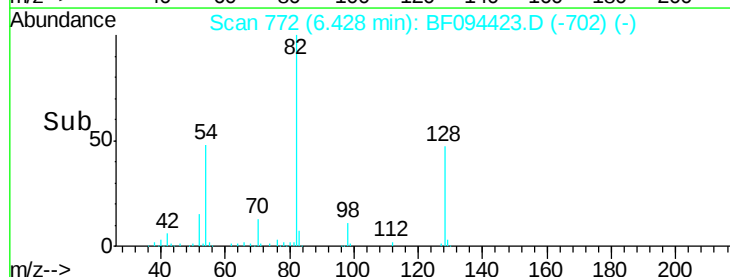
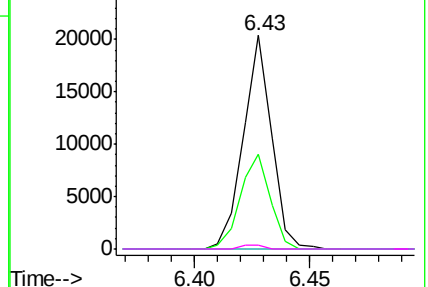


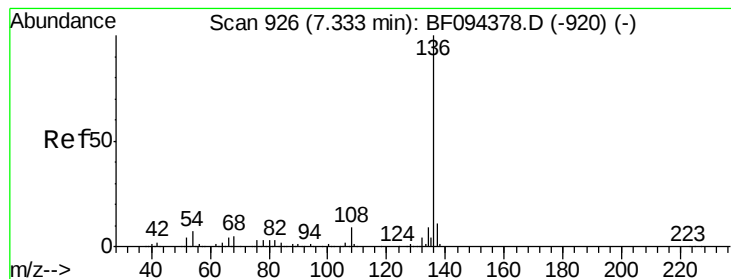
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.29 min Scan# 918

Delta R.T. -0.05 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

Tgt Ion:136 Resp: 530246

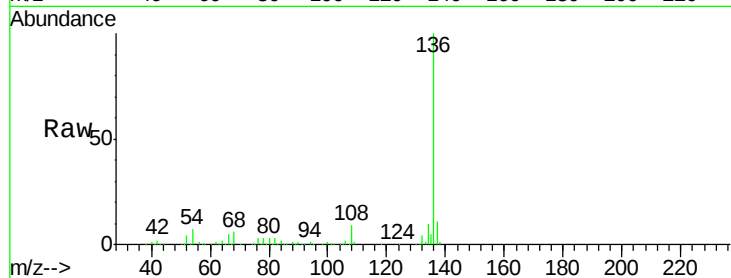
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.2 4.9 7.3

68 6.0 4.1 6.1

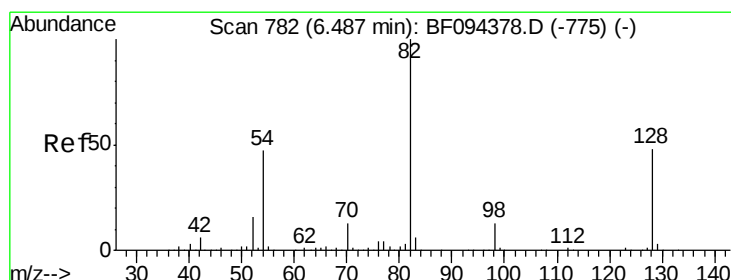
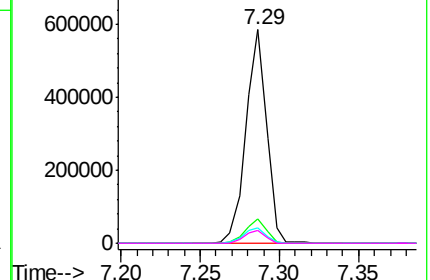
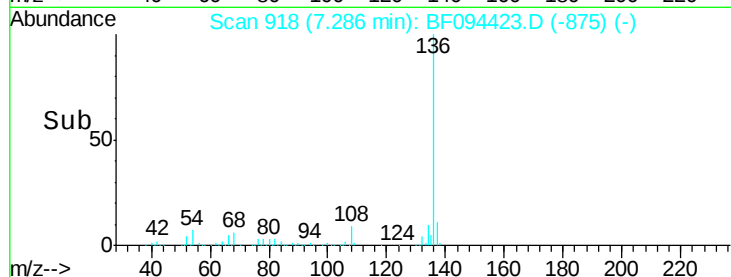


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 15.00 ng

RT: 6.43 min Scan# 772

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

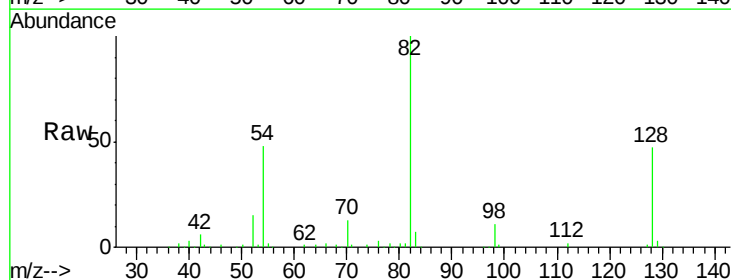
Tgt Ion: 82 Resp: 139361

Ion Ratio Lower Upper

82 100

128 46.8 34.0 51.0

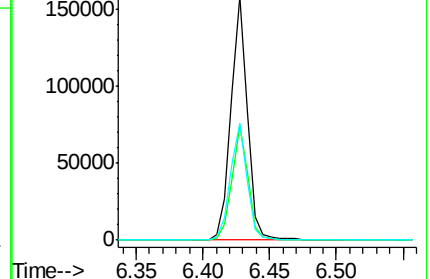
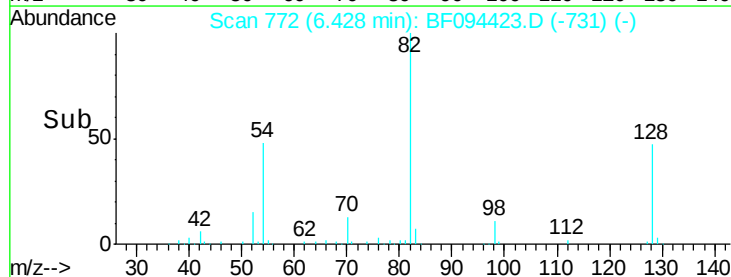
54 47.8 42.2 63.2

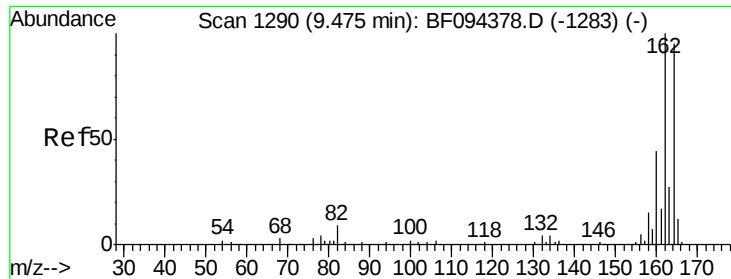


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

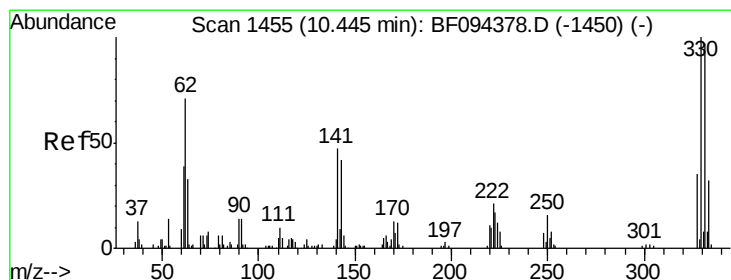
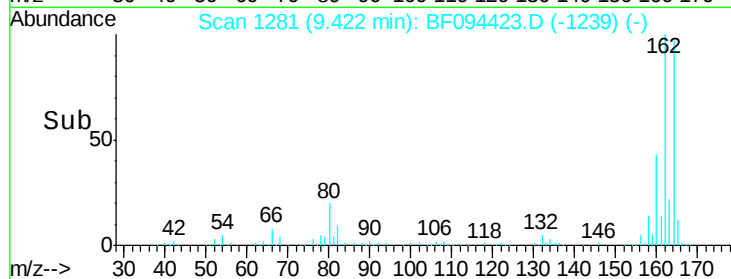
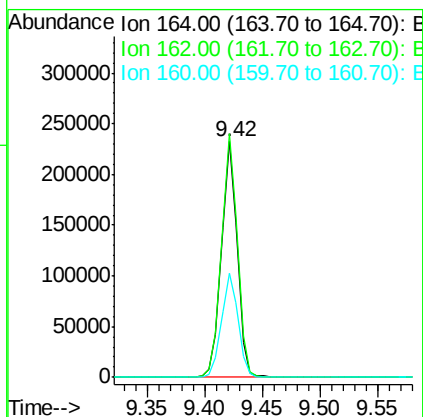
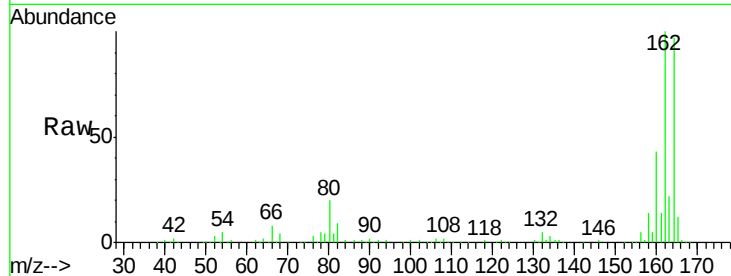




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.42 min Scan# 1281  
 Delta R.T. -0.05 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

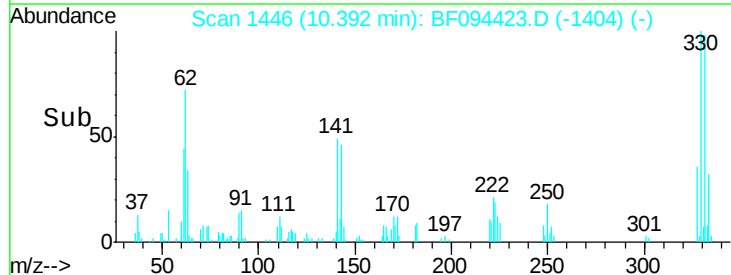
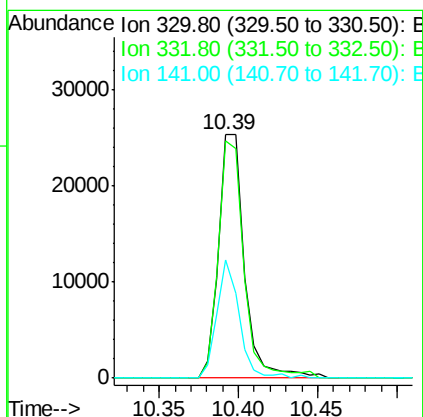
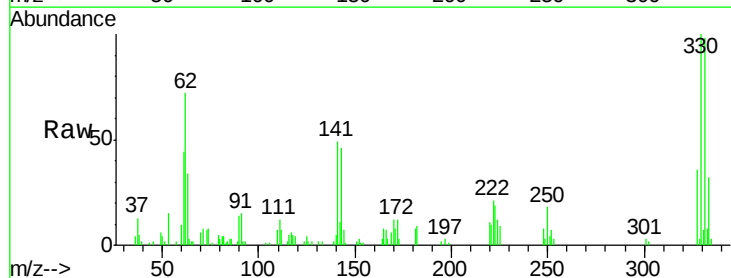
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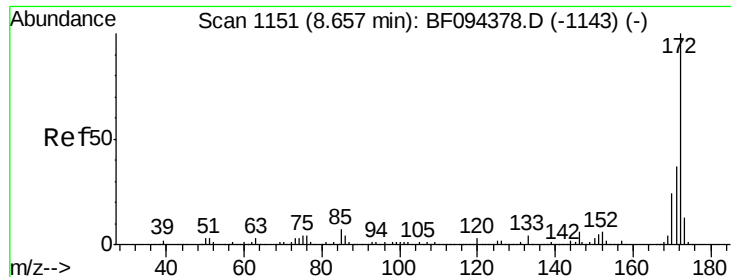
Tgt Ion:164 Resp: 222693  
 Ion Ratio Lower Upper  
 164 100  
 162 103.4 82.6 123.8  
 160 44.4 36.2 54.2



#41  
 2,4,6-Tribromophenol  
 Concen: 16.33 ng  
 RT: 10.39 min Scan# 1446  
 Delta R.T. -0.05 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Tgt Ion:330 Resp: 28729  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 76.6 115.0  
 141 41.9 31.4 47.2

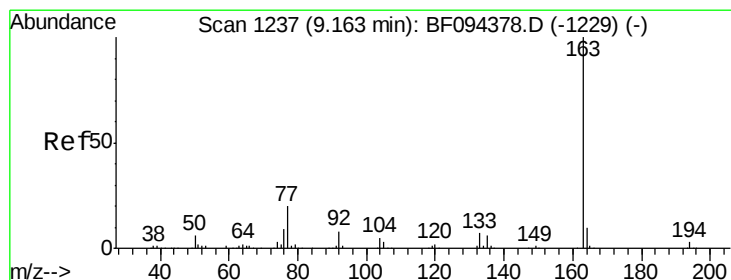
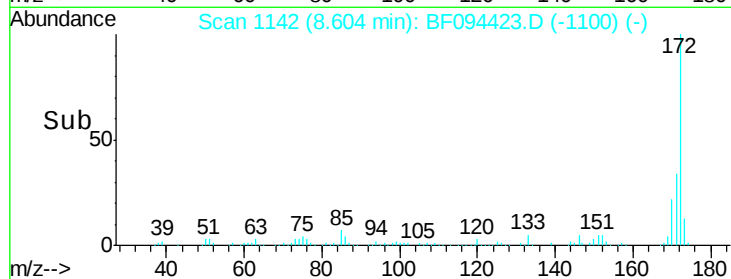
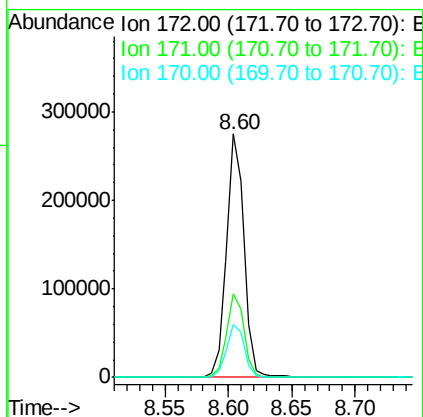
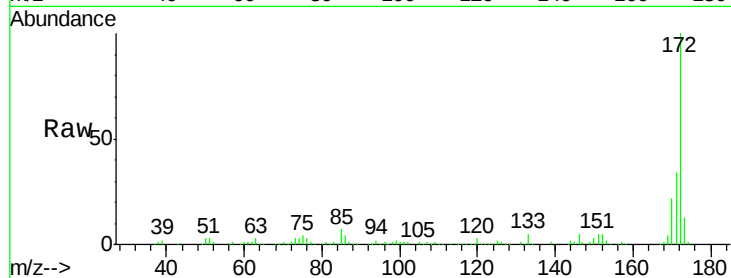




#44  
 2-Fluorobiphenyl  
 Concen: 18.00 ng  
 RT: 8.60 min Scan# 1142  
 Delta R.T. -0.05 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

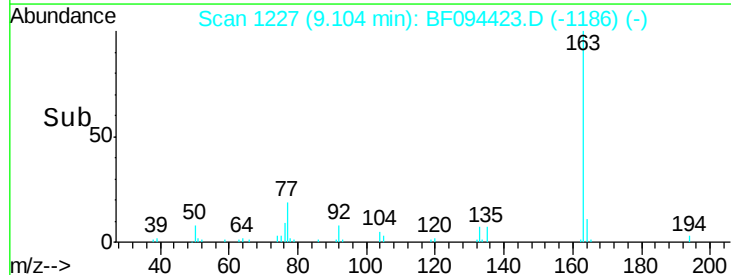
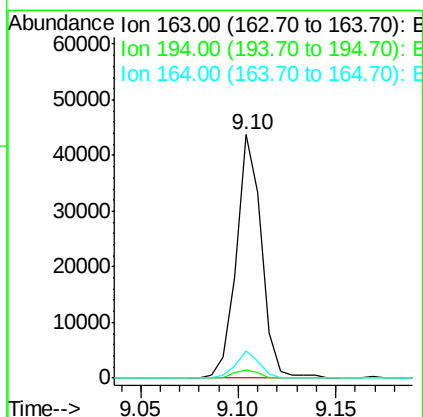
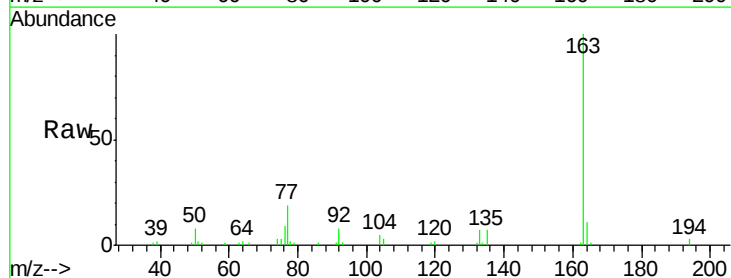
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 E2-Z8-NSW

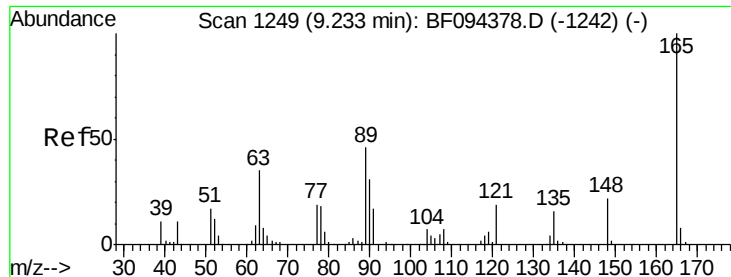
Tgt Ion:172 Resp: 262844  
 Ion Ratio Lower Upper  
 172 100  
 171 34.4 29.6 44.4  
 170 21.9 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 2.48 ng  
 RT: 9.10 min Scan# 1227  
 Delta R.T. -0.06 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Tgt Ion:163 Resp: 39195  
 Ion Ratio Lower Upper  
 163 100  
 194 3.1 2.6 4.0  
 164 11.4 8.4 12.6

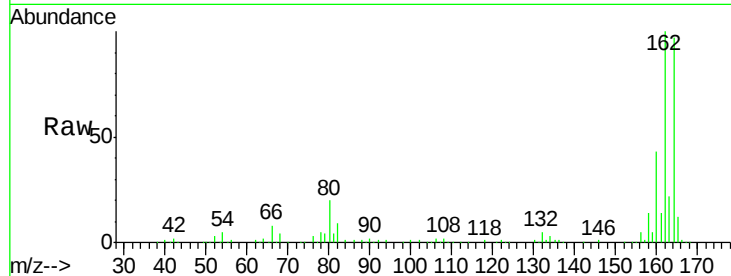




#50  
 2,6-Dinitrotoluene  
 Concen: 7.88 ng  
 RT: 9.42 min Scan# 1281  
 Delta R.T. 0.19 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z8-NSW

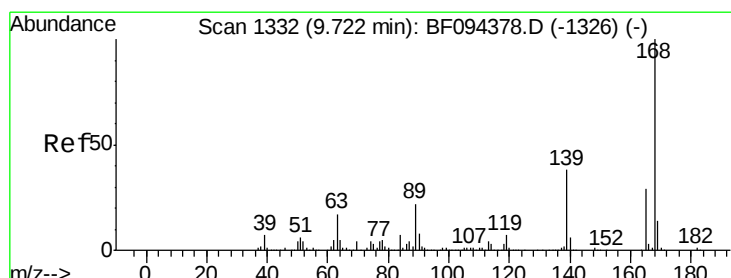
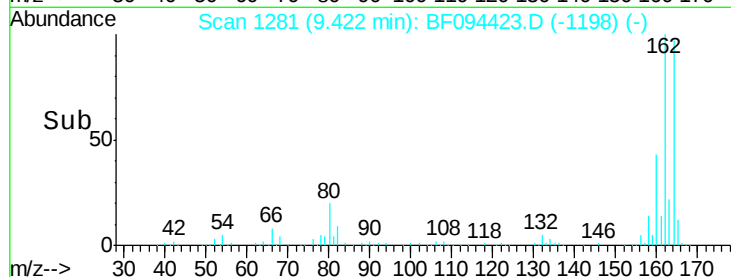
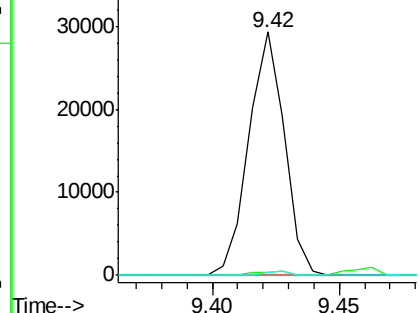
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 34.3  | 51.5# |
| 89      | 1.3   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.28 ng  
 RT: 9.42 min Scan# 1281  
 Delta R.T. -0.30 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

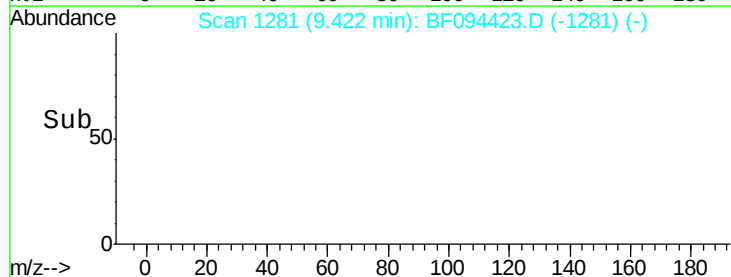
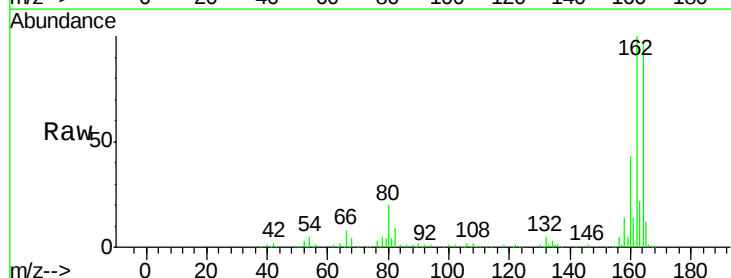
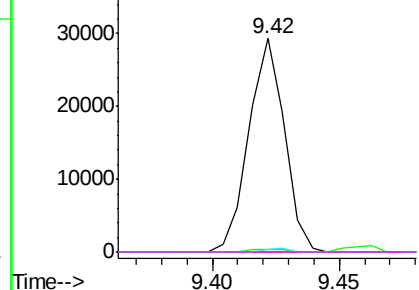
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 25.4  | 38.0# |
| 89      | 1.3   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

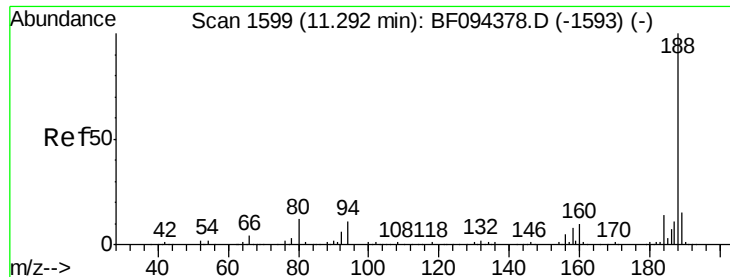
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

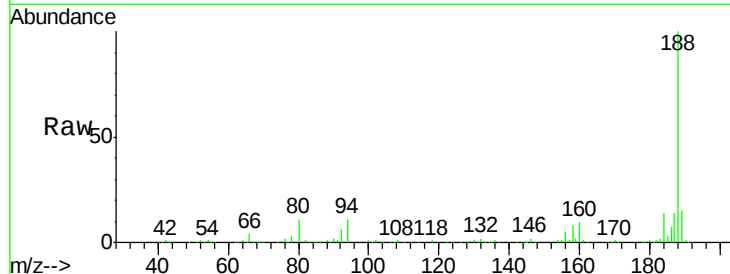




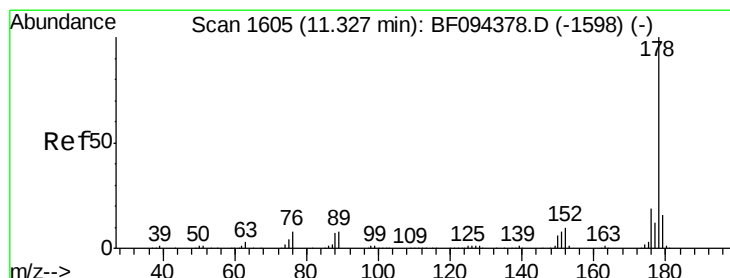
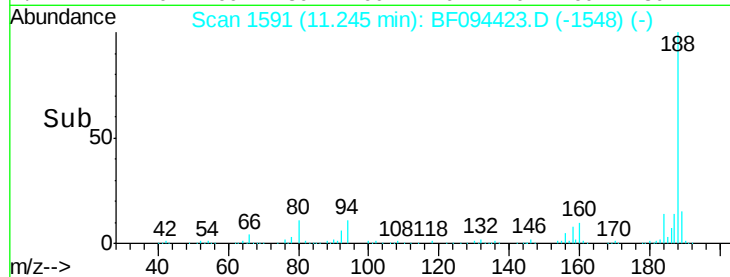
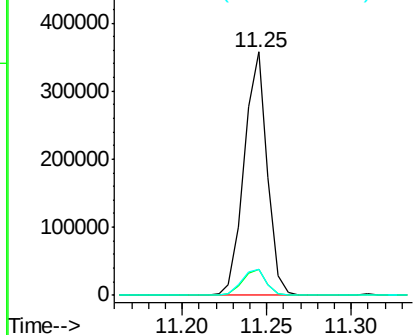
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.25 min Scan# 1591  
 Delta R.T. -0.05 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z8-NSW

Tgt Ion:188 Resp: 340871  
 Ion Ratio Lower Upper  
 188 100  
 94 10.8 9.4 14.2  
 80 10.6 10.2 15.2

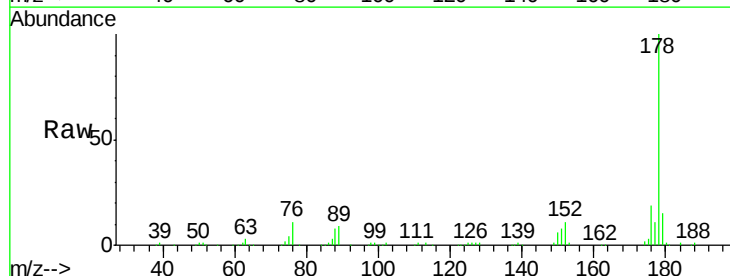


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

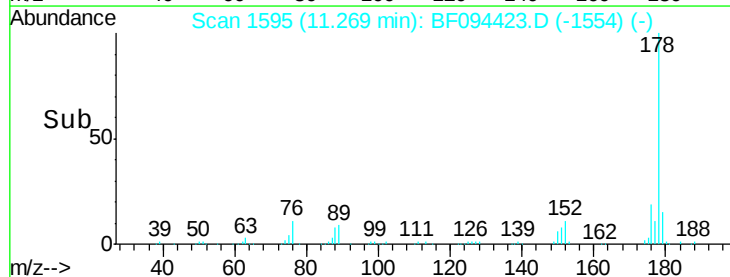
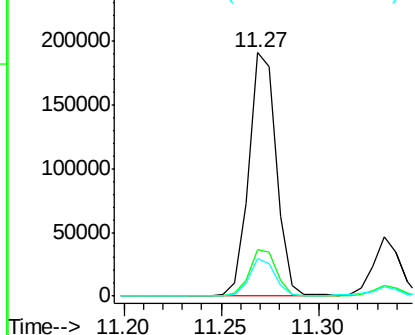


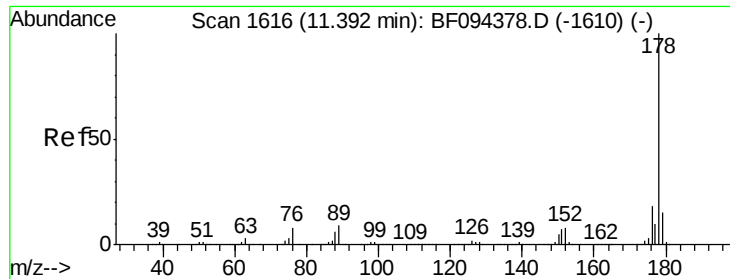
#70  
 Phenanthrene  
 Concen: 9.87 ng  
 RT: 11.27 min Scan# 1595  
 Delta R.T. -0.06 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Tgt Ion:178 Resp: 187110  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 16.2 24.4  
 179 15.3 12.6 19.0



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

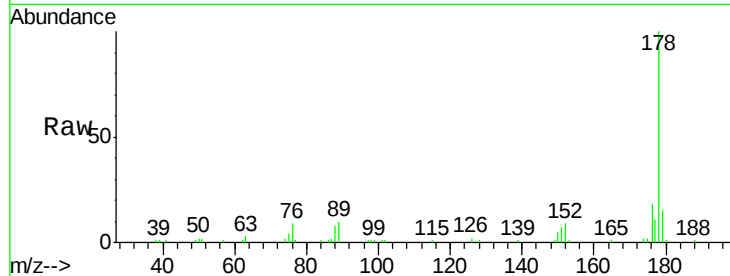




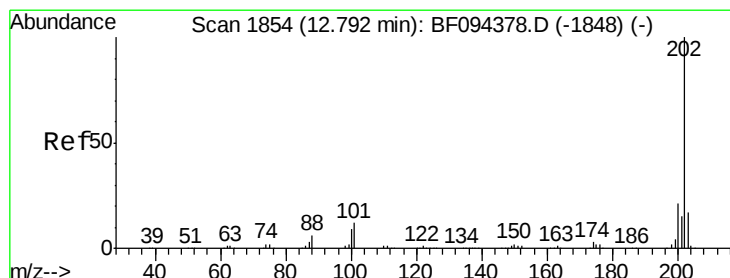
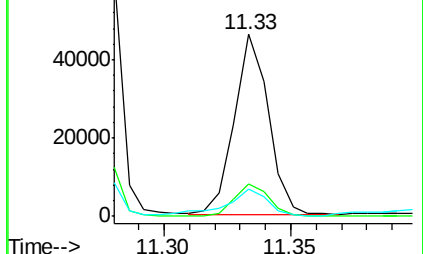
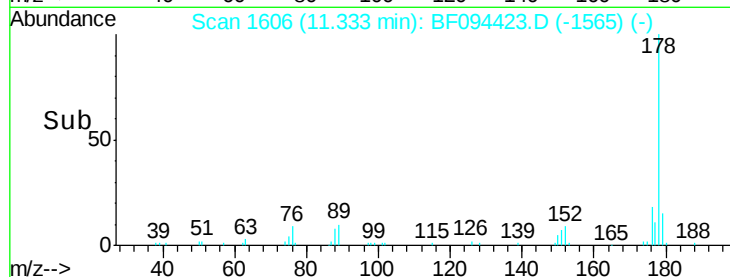
#71  
 Anthracene  
 Concen: 2.23 ng  
 RT: 11.33 min Scan# 1606  
 Delta R.T. -0.06 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Z8-NSW

Tgt Ion:178 Resp: 43523  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.8 23.8  
 179 15.3 12.7 19.1

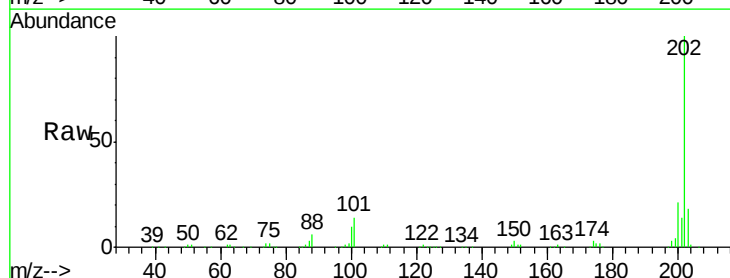


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

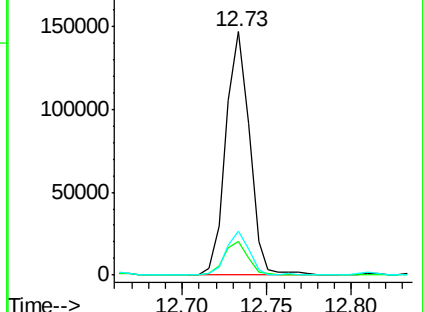
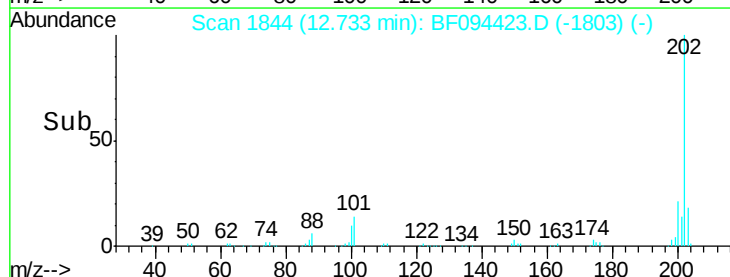


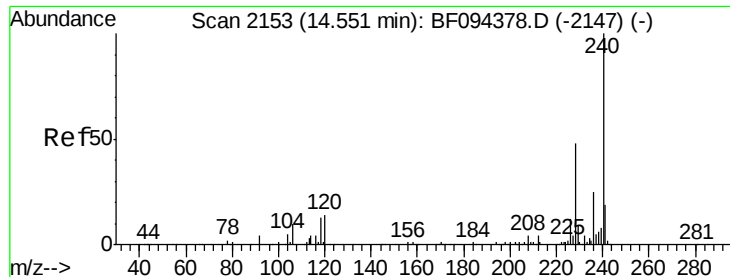
#74  
 Fluoranthene  
 Concen: 7.44 ng  
 RT: 12.73 min Scan# 1844  
 Delta R.T. -0.06 min  
 Lab File: BF094423.D  
 Acq: 14 Apr 2017 10:32

Tgt Ion:202 Resp: 144364  
 Ion Ratio Lower Upper  
 202 100  
 101 13.9 0.0 33.2  
 203 18.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.49 min Scan# 2143

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

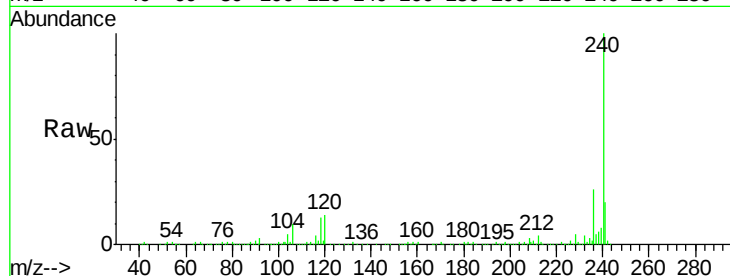
Tgt Ion:240 Resp: 262332

Ion Ratio Lower Upper

240 100

120 13.6 5.8 8.8#

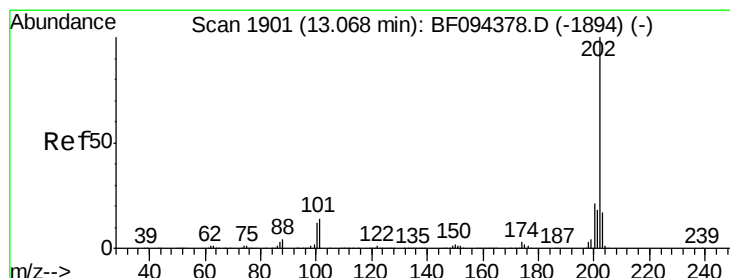
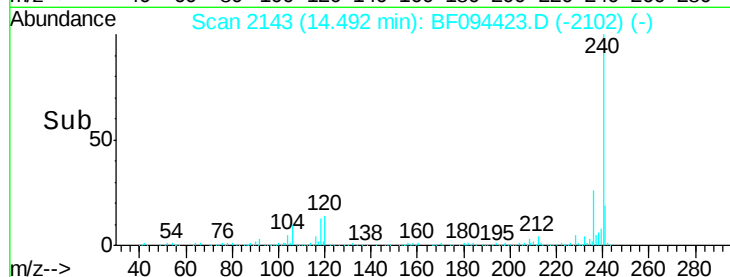
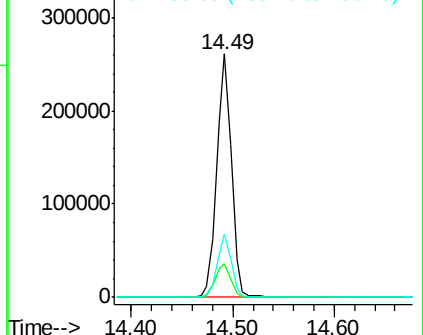
236 25.7 20.5 30.7



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

Pyrene

Concen: 8.96 ng

RT: 13.01 min Scan# 1891

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

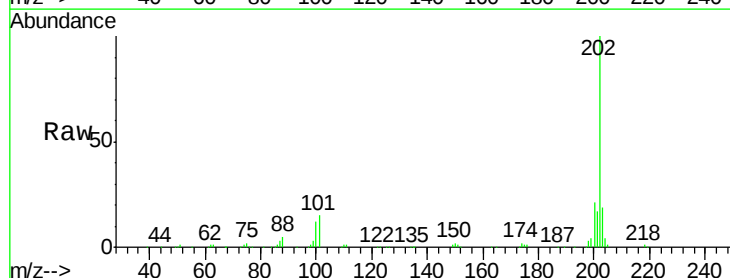
Tgt Ion:202 Resp: 170611

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

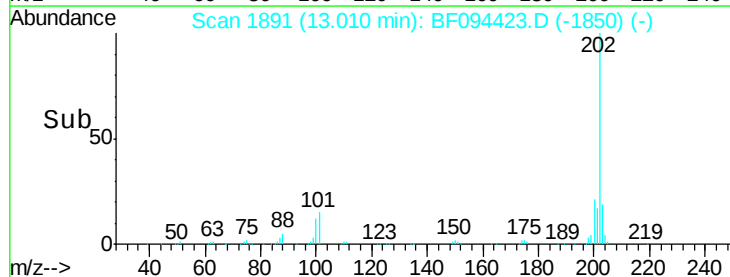
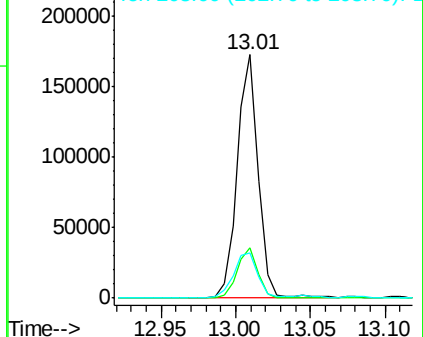
203 18.8 14.4 21.6

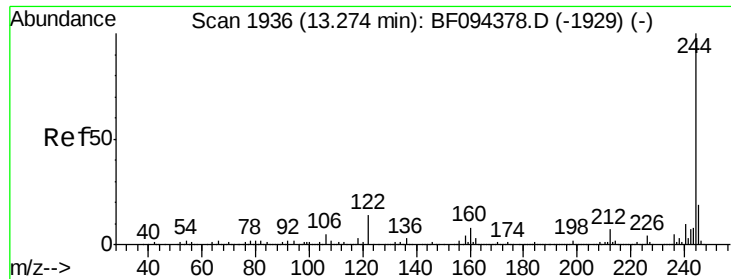


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 13.98 ng

RT: 13.22 min Scan# 1926

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

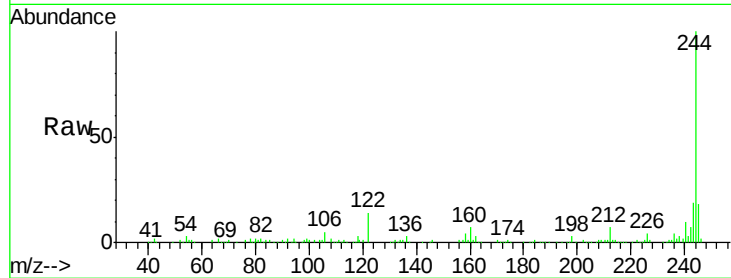
Tgt Ion:244 Resp: 163607

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

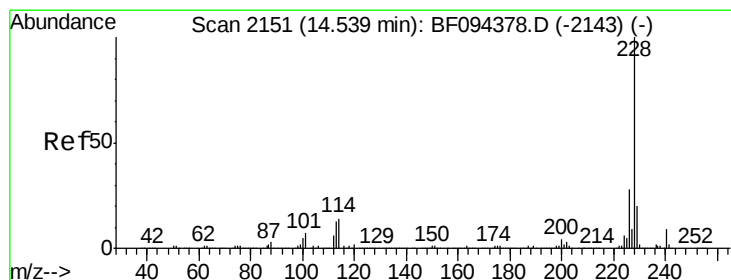
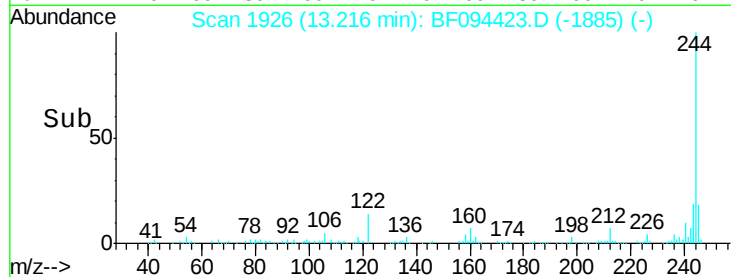
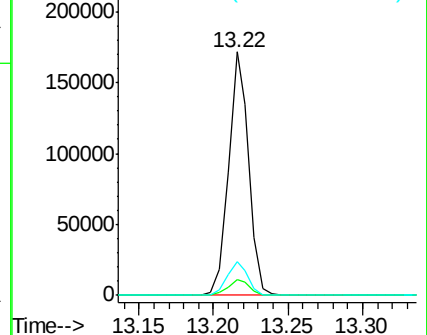
122 13.9 10.3 15.5



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: 3.87 ng

RT: 14.48 min Scan# 2141

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

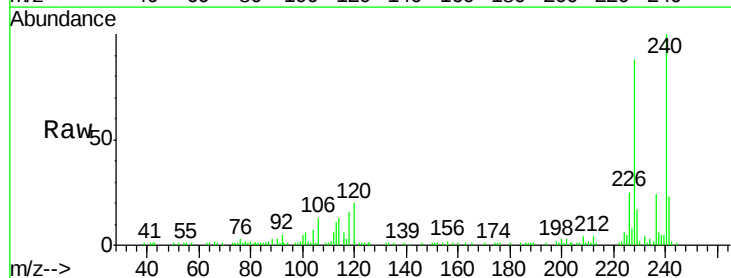
Tgt Ion:228 Resp: 59268

Ion Ratio Lower Upper

228 100

226 28.4 22.6 33.8

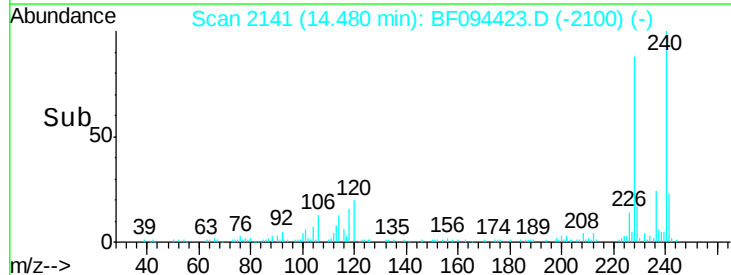
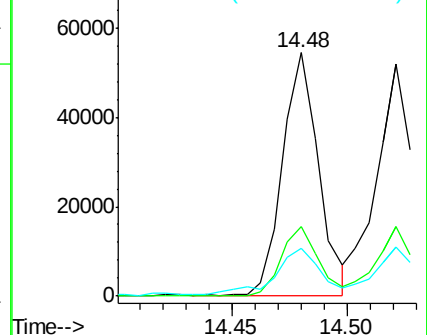
229 19.7 16.3 24.5

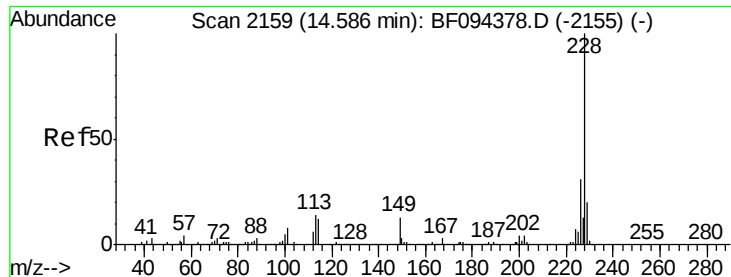


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.03 ng

RT: 14.52 min Scan# 2148

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

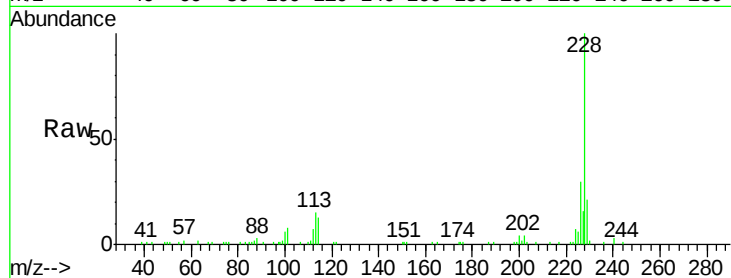
Tgt Ion:228 Resp: 57222

Ion Ratio Lower Upper

228 100

226 29.9 24.9 37.3

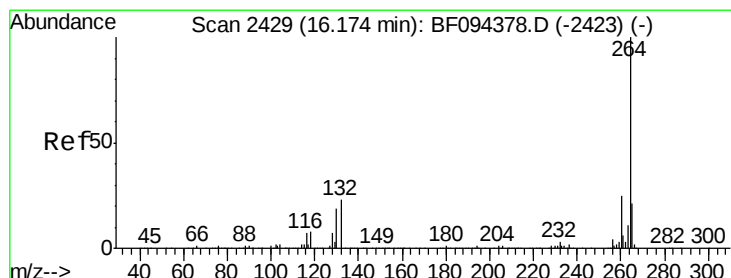
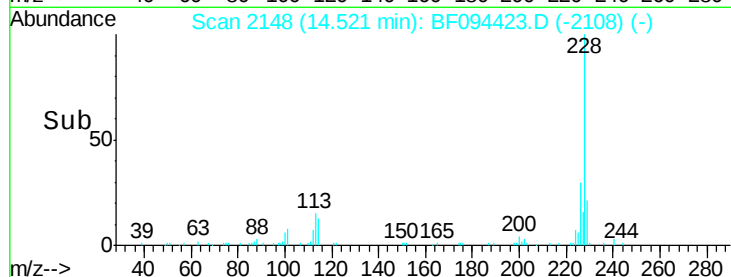
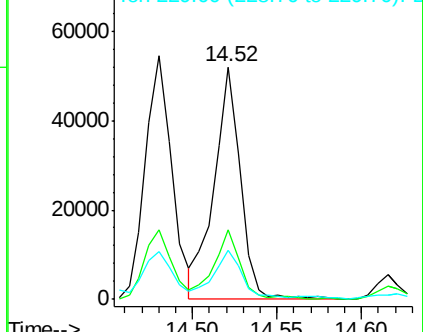
229 21.3 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 2419

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

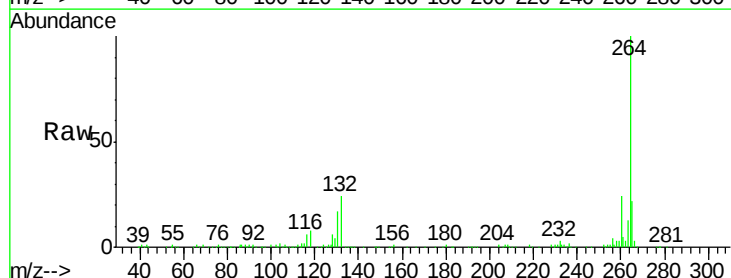
Tgt Ion:264 Resp: 200483

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

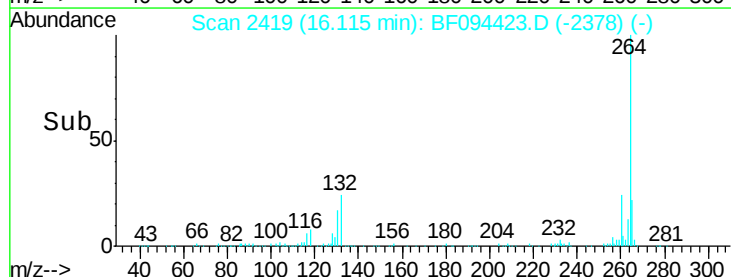
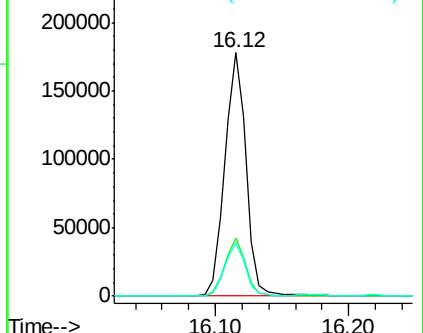
265 21.8 17.2 25.8

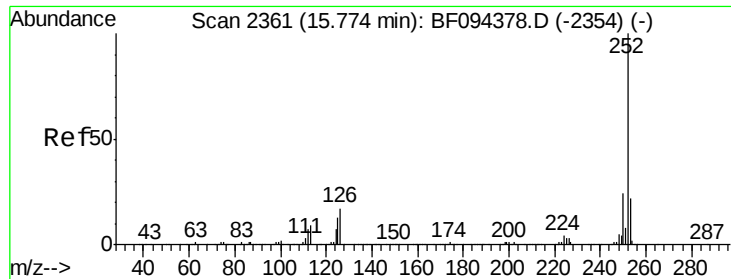


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.64 ng

RT: 15.72 min Scan# 2351

Delta R.T. -0.06 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW

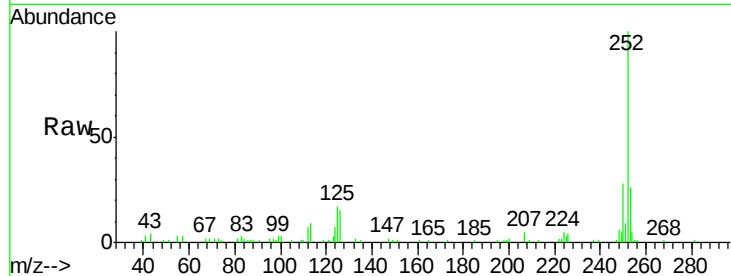
Tgt Ion:252 Resp: 57060

Ion Ratio Lower Upper

252 100

253 25.7 18.1 27.1

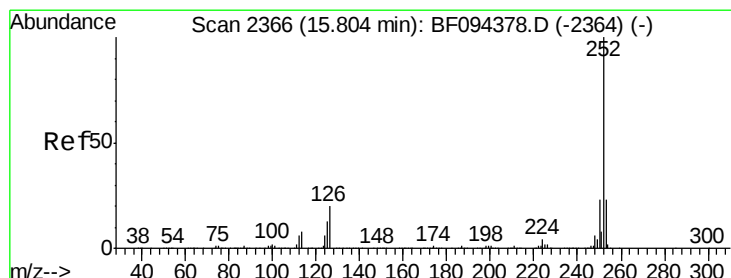
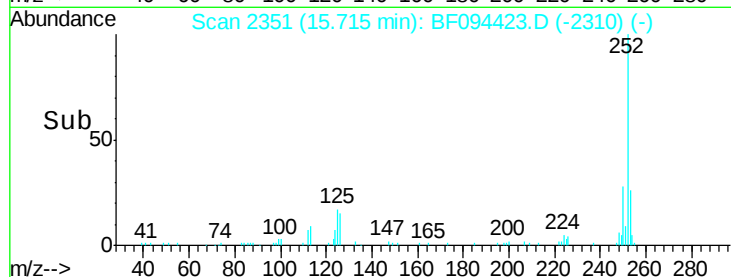
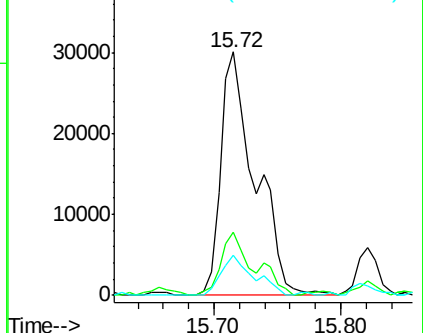
125 16.7 9.8 14.8#



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: 4.75 ng

RT: 15.72 min Scan# 2351

Delta R.T. -0.09 min

Lab File: BF094423.D

Acq: 14 Apr 2017 10:32

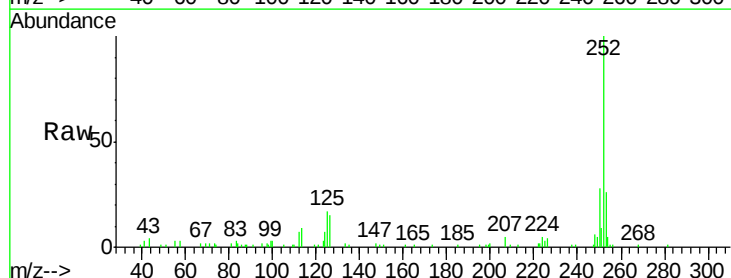
Tgt Ion:252 Resp: 57060

Ion Ratio Lower Upper

252 100

253 25.7 18.4 27.6

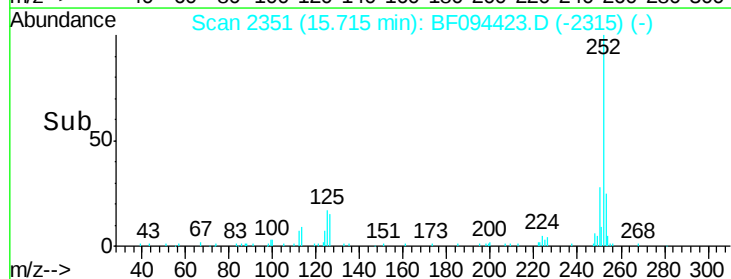
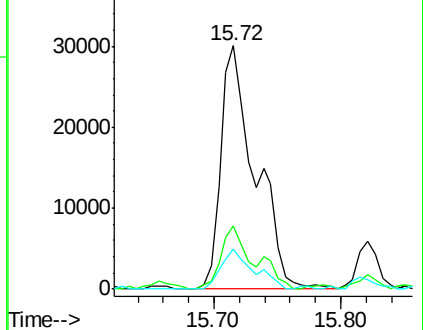
125 16.7 13.1 19.7

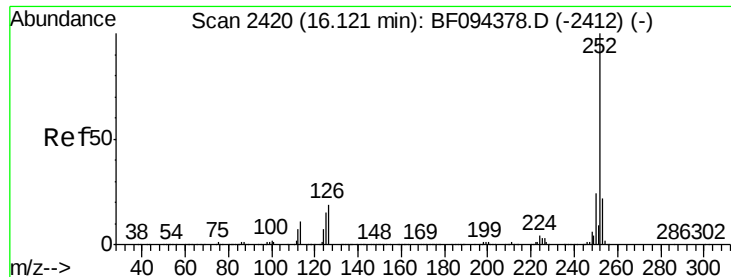


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.12 ng

RT: 16.06 min Scan# 2409

Delta R.T. -0.06 min

Lab File: BF094423.D

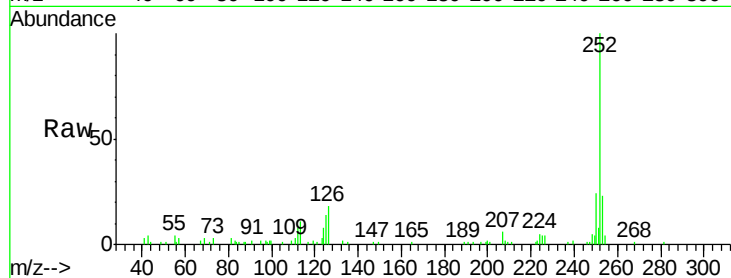
Acq: 14 Apr 2017 10:32

Instrument :

BNA\_F

ClientSampleId :

E2-Z8-NSW



Tgt Ion:252 Resp: 35325

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 13.7 11.0 16.4

