

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\  
 Data File : BF097777.D  
 Acq On : 17 Aug 2017 9:38  
 Operator : SJ/JU  
 Sample : I4791-02 10X  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 17 14:56:16 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

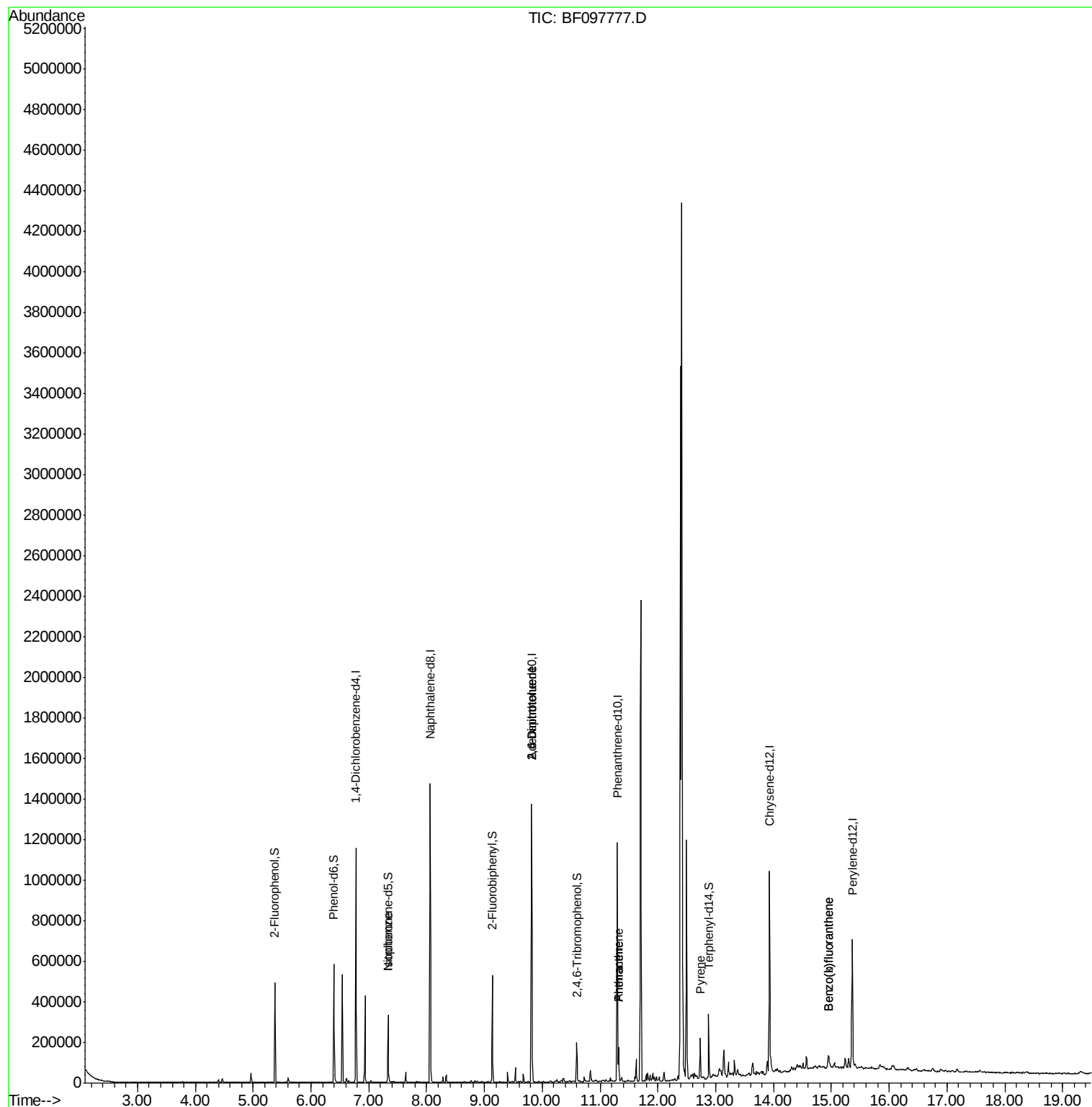
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 154649   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.06  | 136  | 589307   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 244157   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.30 | 188  | 366056   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.93 | 240  | 305459   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.36 | 264  | 263863   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.37  | 112  | 126421   | 12.43 | ng    | -0.01    |
| 7) Phenol-d6                | 6.40  | 99   | 169195   | 12.25 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 100436   | 9.26  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 17526    | 8.27  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 157422   | 9.47  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.88 | 244  | 85483    | 5.84  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.33  | 82   | 100216   | 4.443 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene      | 9.82  | 165  | 30583    | 8.585 | ng    | # 34     |
| 56) 2,4-Dinitrotoluene      | 9.82  | 165  | 30583    | 6.841 | ng    | # 34     |
| 70) Phenanthrene            | 11.32 | 178  | 53979    | 2.767 | ng    | 97       |
| 71) Anthracene              | 11.32 | 178  | 53979    | 2.728 | ng    | 97       |
| 77) Pyrene                  | 12.73 | 202  | 56093    | 2.245 | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.95 | 252  | 37983    | 2.284 | ng    | # 91     |
| 88) Benzo(k)fluoranthene    | 14.95 | 252  | 37983    | 2.431 | ng    | 95       |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration



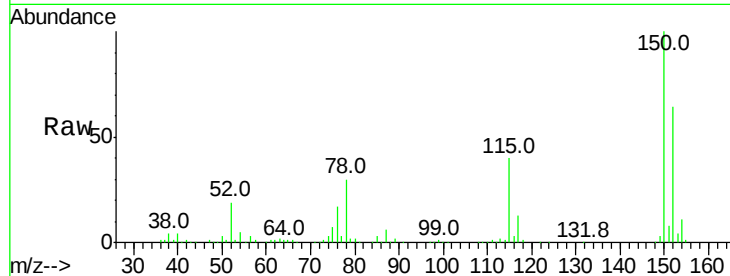


#1

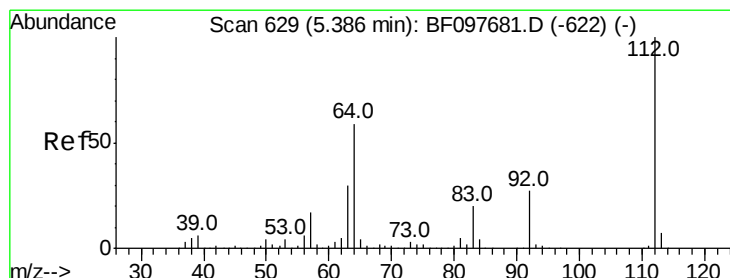
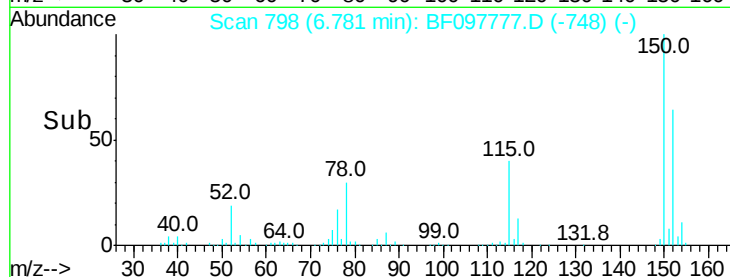
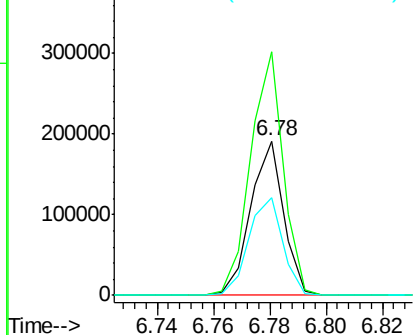
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.78 min Scan# 798  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 154649  
 Ion Ratio Lower Upper  
 152 100  
 150 157.4 126.2 189.2  
 115 63.5 52.2 78.2



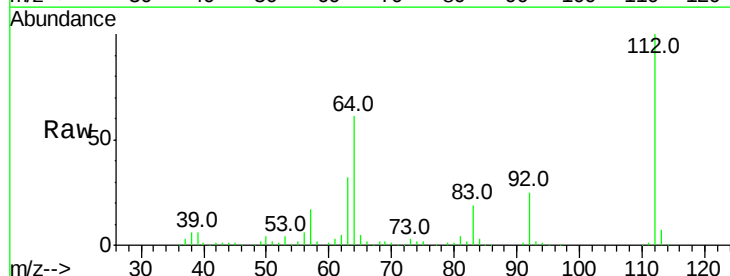
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



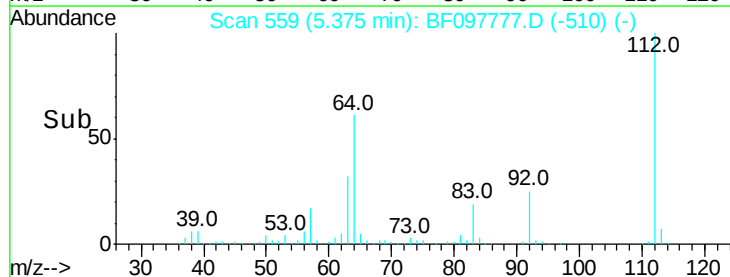
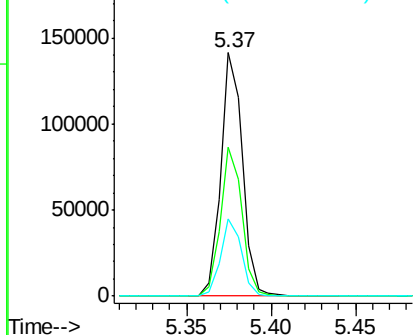
#5

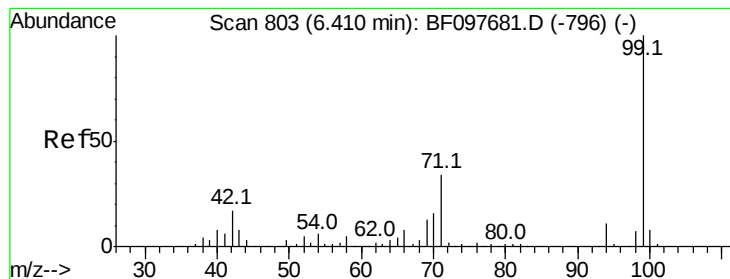
2-Fluorophenol  
 Concen: 12.434 ng  
 RT: 5.37 min Scan# 559  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

Tgt Ion:112 Resp: 126421  
 Ion Ratio Lower Upper  
 112 100  
 64 61.1 46.0 69.0  
 63 31.7 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 12.248 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

Instrument :

BNA\_F

ClientSampleId :

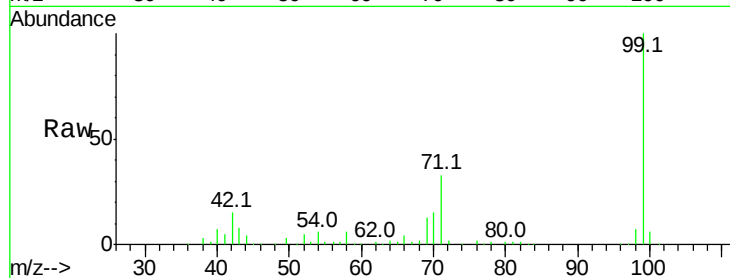
Tot Ion: 99 Resp: 169195

Ion Ratio Lower Upper

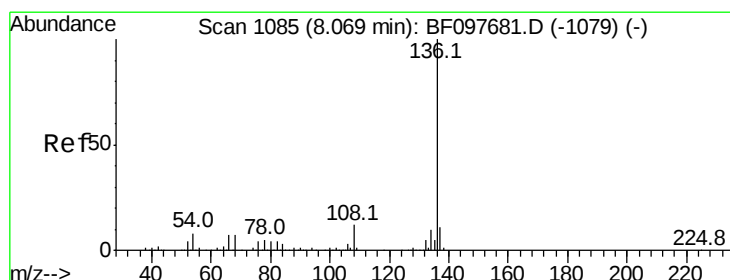
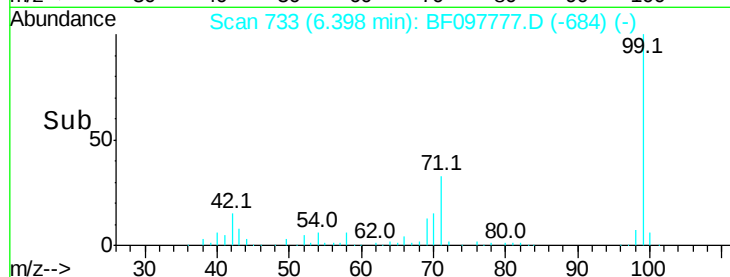
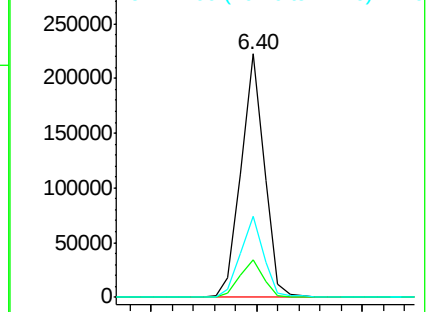
99 100

42 15.3 13.5 20.3

71 33.1 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

Tgt Ion: 136 Resp: 589307

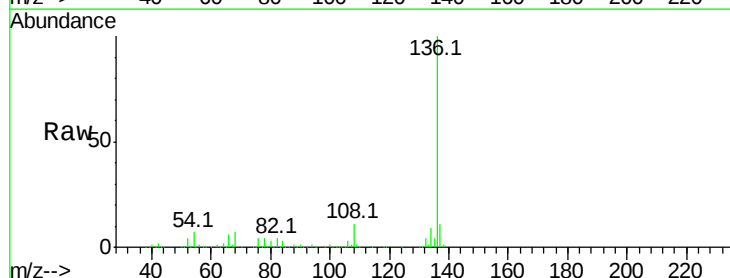
Ion Ratio Lower Upper

136 100

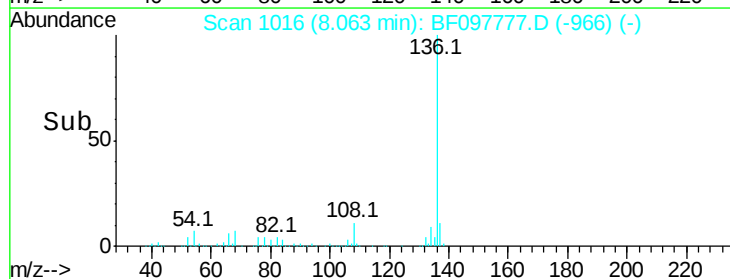
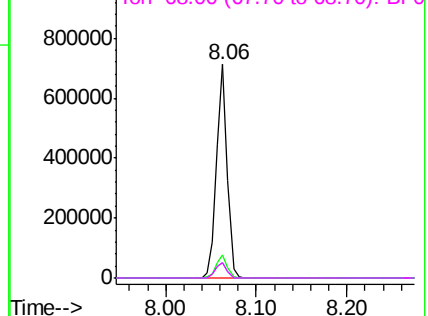
137 11.0 8.5 12.7

54 7.4 4.9 7.3#

68 7.3 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

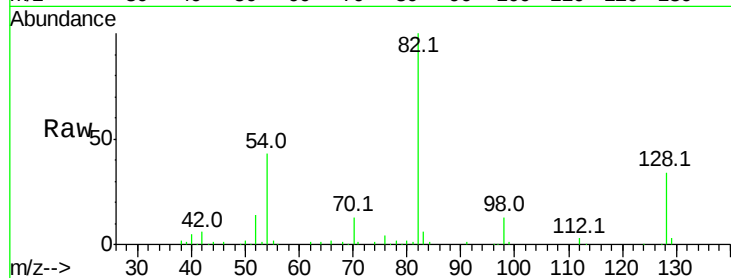




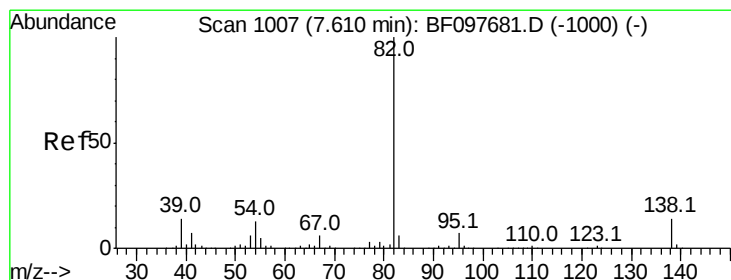
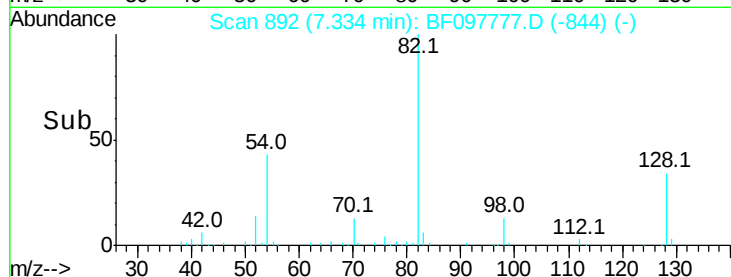
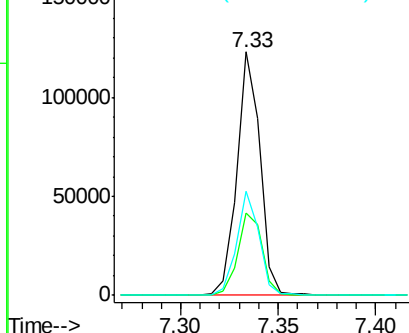
#23  
Nitrobenzene-d5  
Concen: 9.259 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.02 min  
Lab File: BF097777.D  
Acq: 17 Aug 2017 9:38

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | 82    | Resp  | 100436 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 33.7  | 34.0  | 51.0#  |
| 54      | 42.5  | 42.2  | 63.2   |

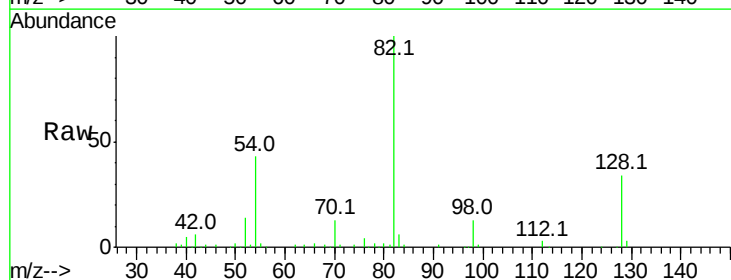


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

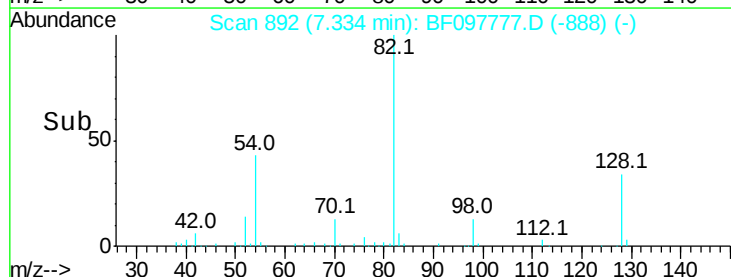
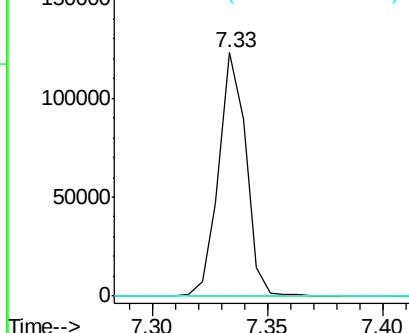


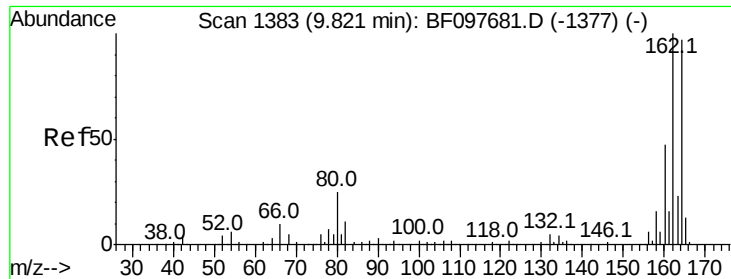
#25  
Isophorone  
Concen: 4.443 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.28 min  
Lab File: BF097777.D  
Acq: 17 Aug 2017 9:38

| Tgt Ion | 82    | Resp  | 100216 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 95      | 0.0   | 5.3   | 7.9#   |
| 138     | 0.0   | 13.1  | 19.7#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

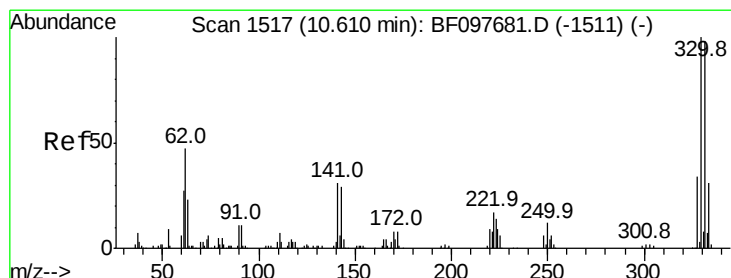
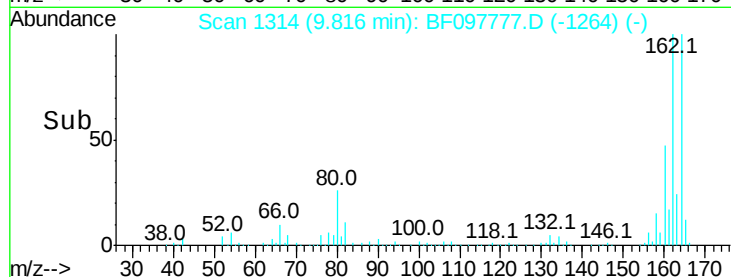
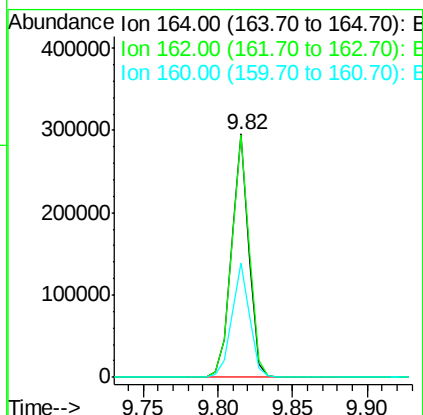
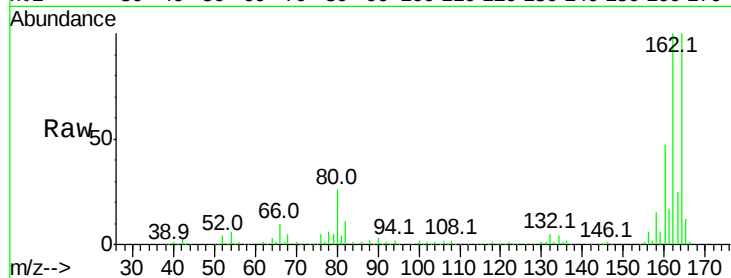




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

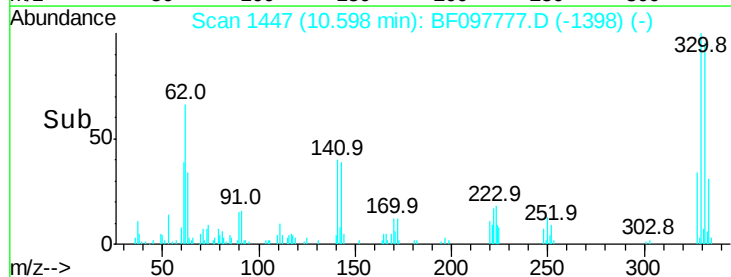
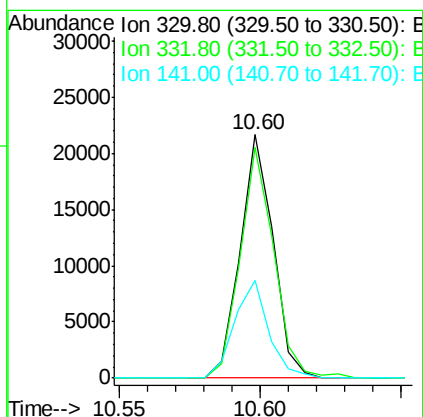
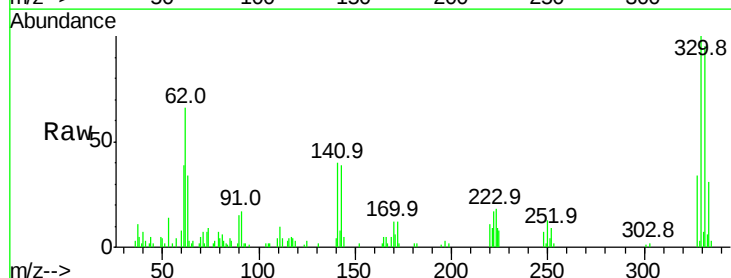
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.5  | 82.6  | 123.8 |
| 160     | 47.0  | 36.2  | 54.2  |



#41  
 2,4,6-Tribromophenol  
 Concen: 8.273 ng  
 RT: 10.60 min Scan# 1447  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 76.6  | 115.0 |
| 141     | 41.5  | 31.4  | 47.2  |

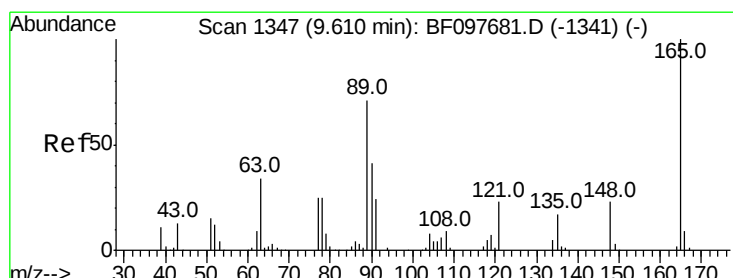
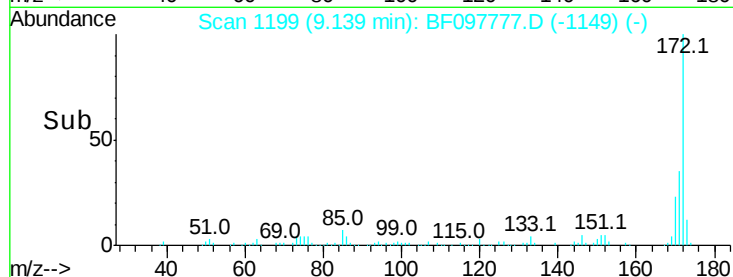
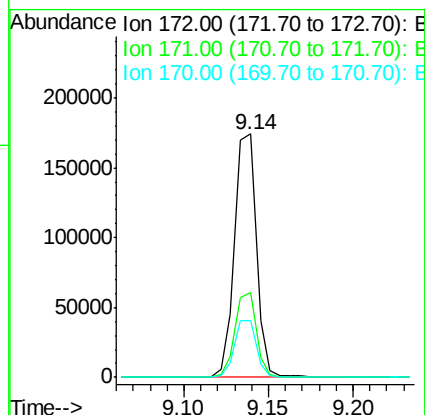
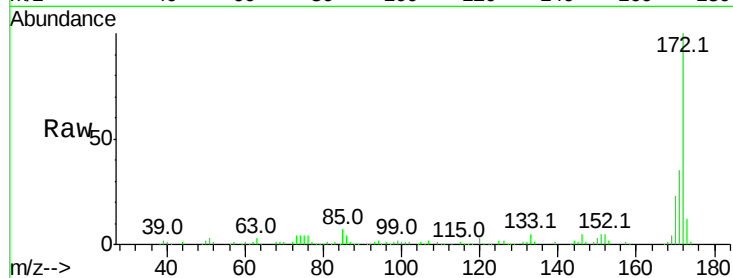




#44  
 2-Fluorobiphenyl  
 Concen: 9.473 ng  
 RT: 9.14 min Scan# 1199  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

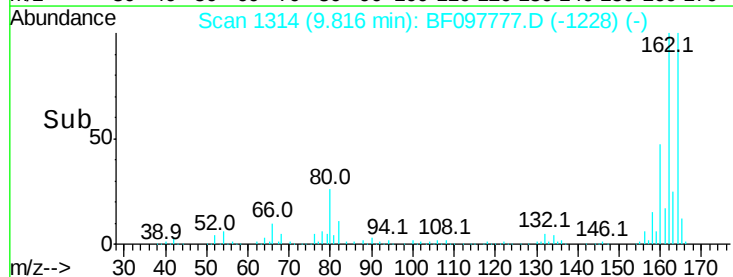
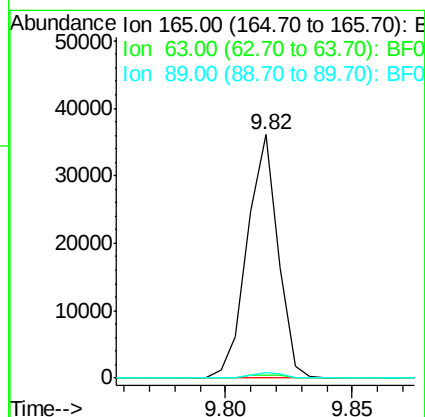
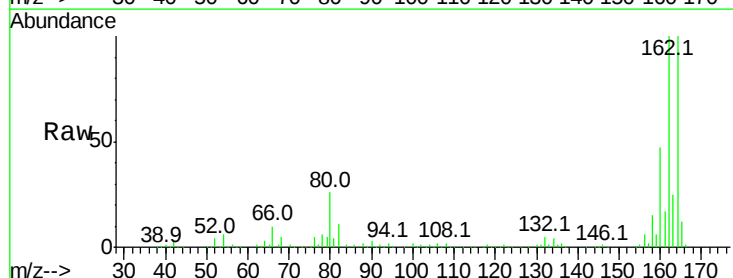
Instrument :  
 BNA\_F  
 ClientSampleId :

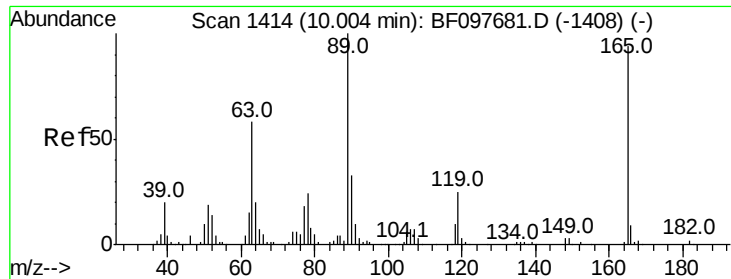
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.6  | 44.4  |
| 170     | 23.1  | 19.8  | 29.8  |



#50  
 2,6-Dinitrotoluene  
 Concen: 8.585 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. 0.21 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 34.3  | 51.5# |
| 89      | 2.2   | 37.1  | 55.7# |

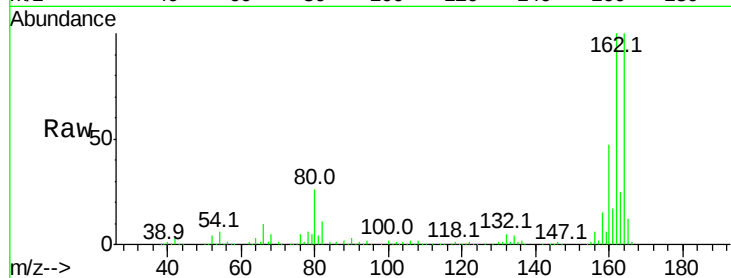




#56  
 2,4-Dinitrotoluene  
 Concen: 6.841 ng  
 RT: 9.82 min Scan# 1314  
 Delta R.T. -0.19 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 25.4  | 38.0# |
| 89      | 2.2   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

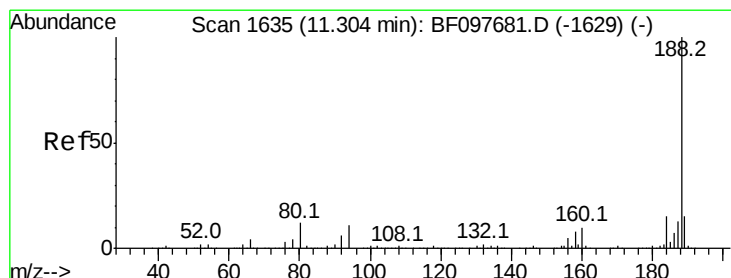
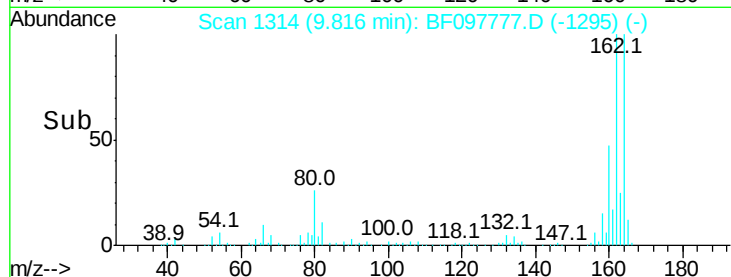
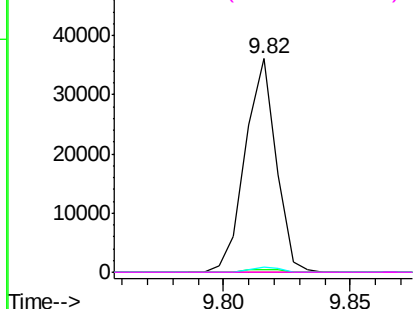


Abundance Ion 165.00 (164.70 to 165.70): E

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



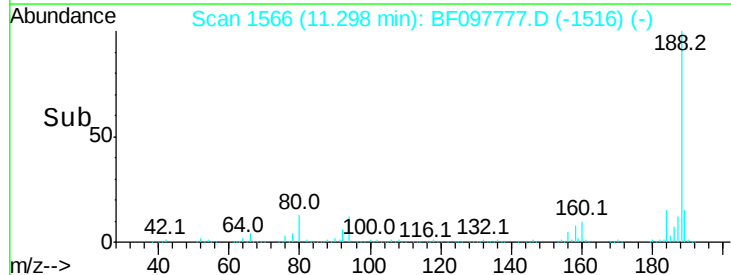
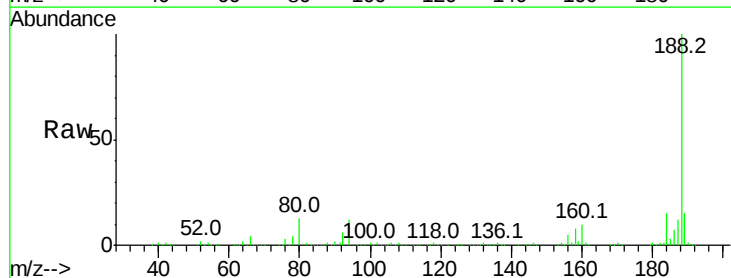
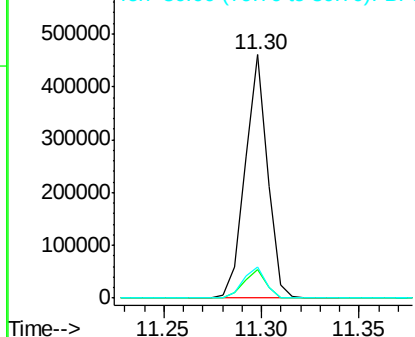
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.30 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: BF097777.D  
 Acq: 17 Aug 2017 9:38

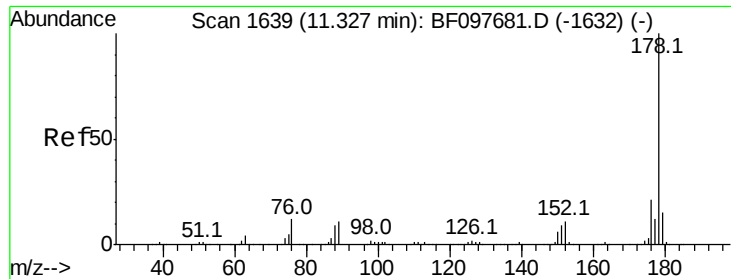
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.7  | 9.4   | 14.2  |
| 80      | 12.5  | 10.2  | 15.2  |

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

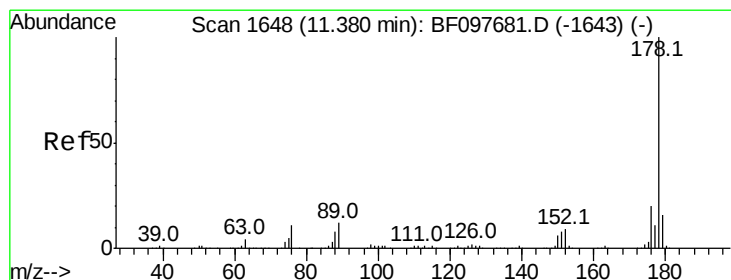
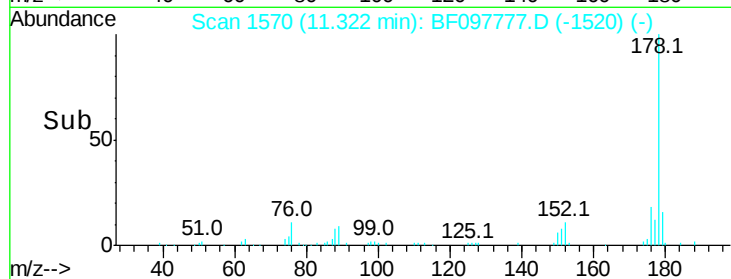
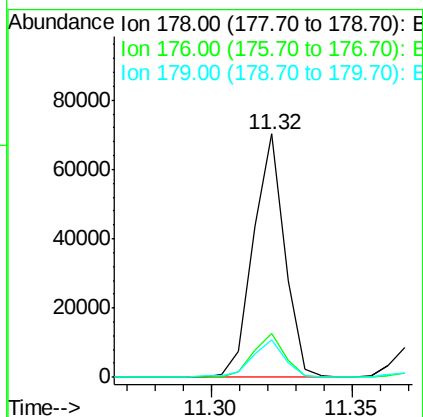
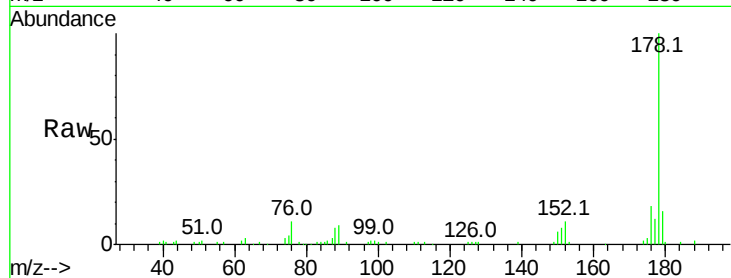




#70  
Phenanthrene  
Concen: 2.767 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF097777.D  
Acq: 17 Aug 2017 9:38

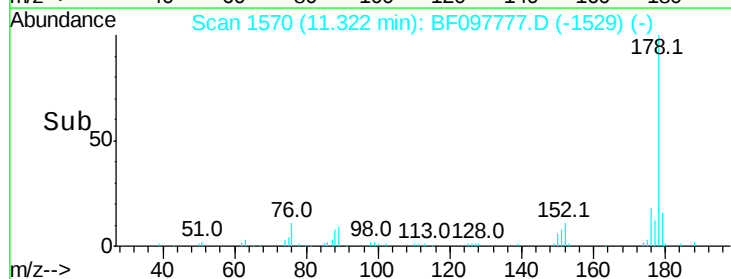
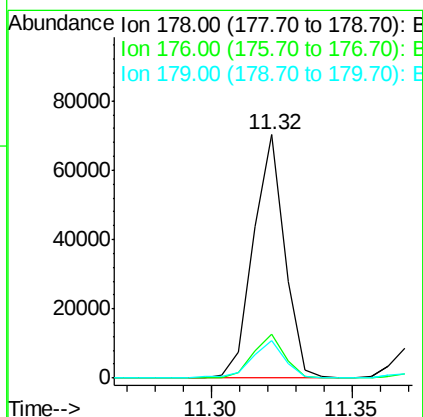
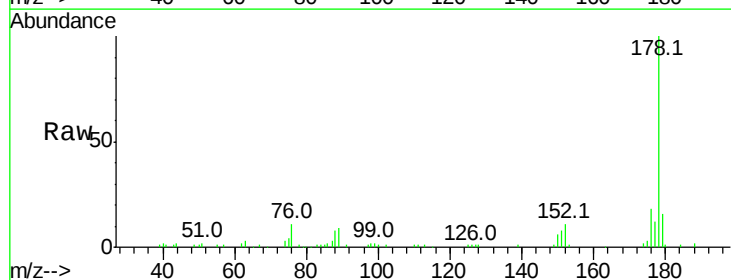
Instrument :  
BNA\_F  
ClientSampleId :

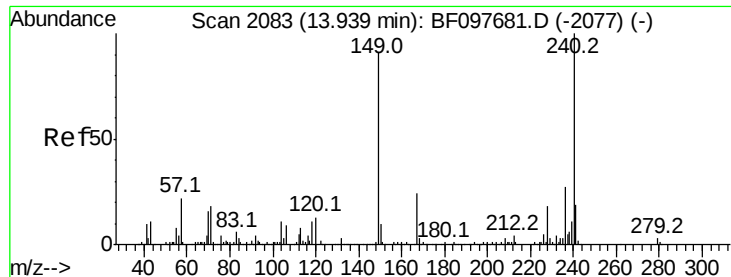
Tot Ion:178 Resp: 53979  
Ion Ratio Lower Upper  
178 100  
176 17.9 16.2 24.4  
179 15.6 12.6 19.0



#71  
Anthracene  
Concen: 2.728 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.06 min  
Lab File: BF097777.D  
Acq: 17 Aug 2017 9:38

Tgt Ion:178 Resp: 53979  
Ion Ratio Lower Upper  
178 100  
176 17.9 15.8 23.8  
179 15.6 12.7 19.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

Instrument :

BNA\_F

ClientSampleId :

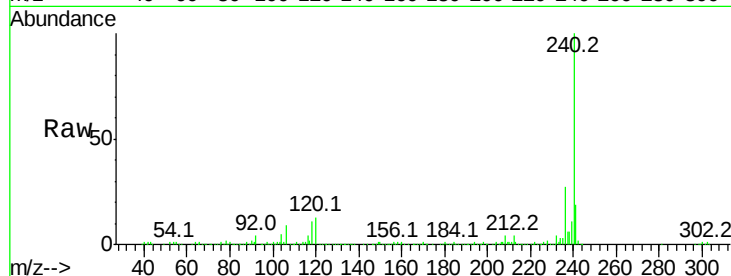
Tot Ion:240 Resp: 305459

Ion Ratio Lower Upper

240 100

120 12.7 5.8 8.8#

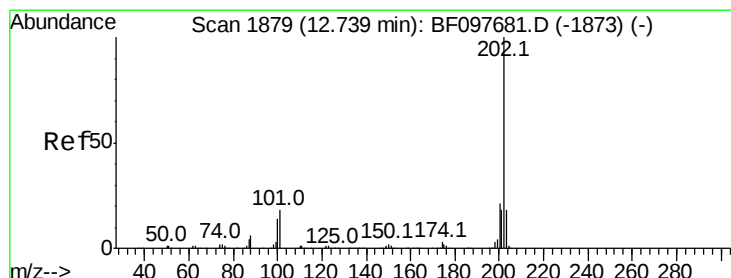
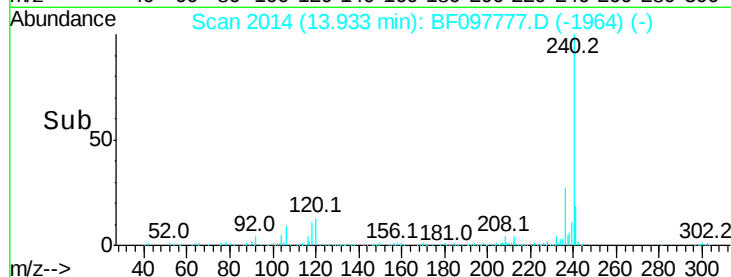
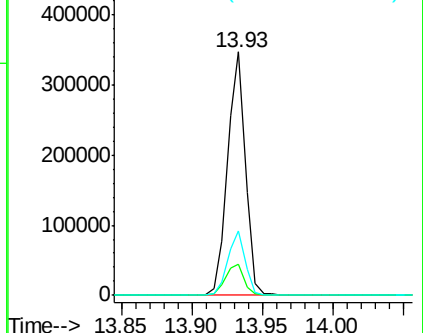
236 26.6 20.5 30.7



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: 2.245 ng

RT: 12.73 min Scan# 1810

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

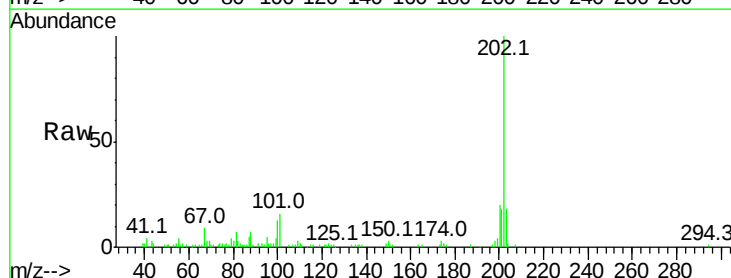
Tgt Ion:202 Resp: 56093

Ion Ratio Lower Upper

202 100

200 20.1 17.6 26.4

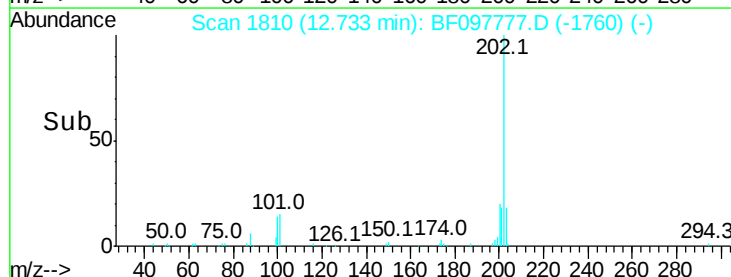
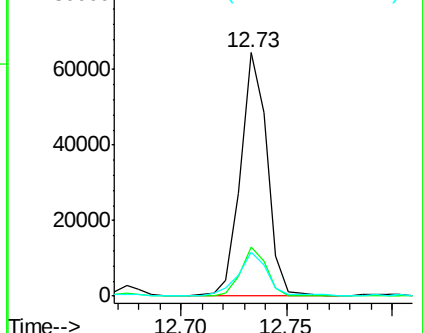
203 18.2 14.4 21.6

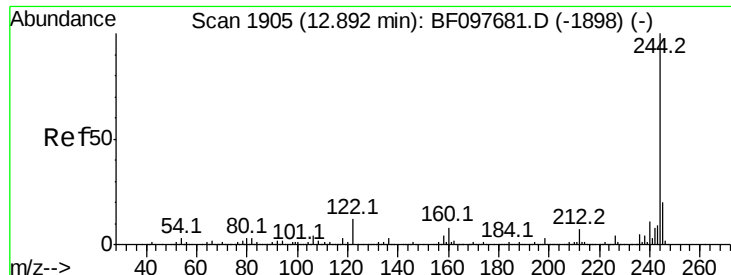


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.836 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

Instrument :

BNA\_F

ClientSampled :

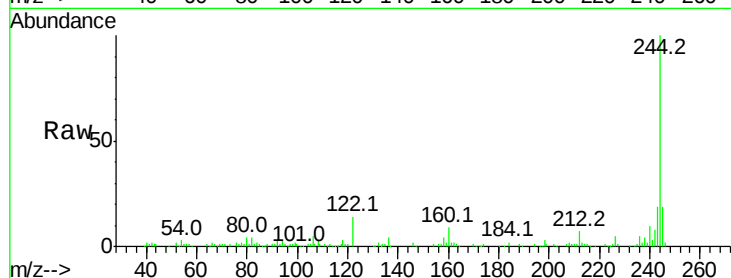
Tot Ion:244 Resp: 85483

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

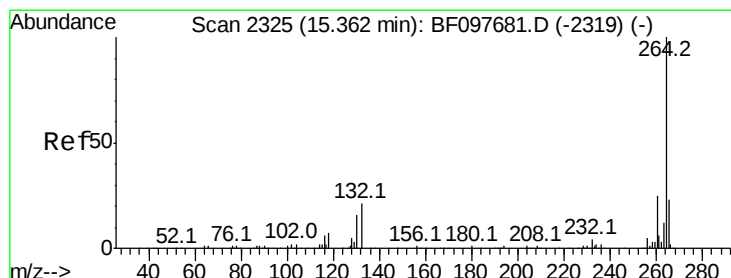
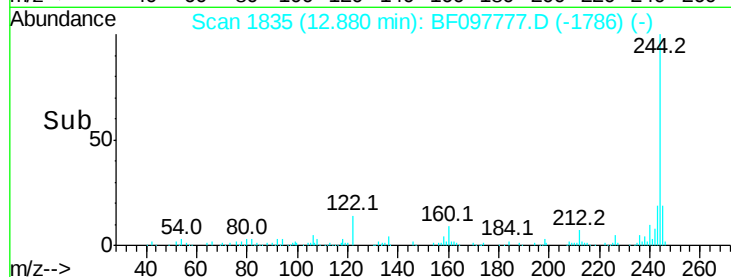
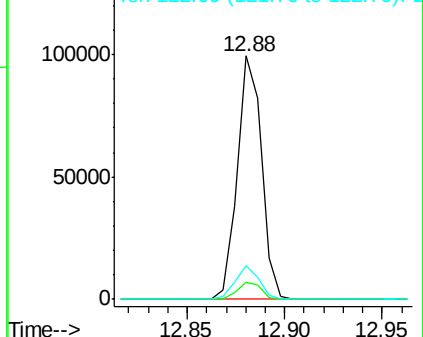
122 13.7 10.3 15.5



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.00 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

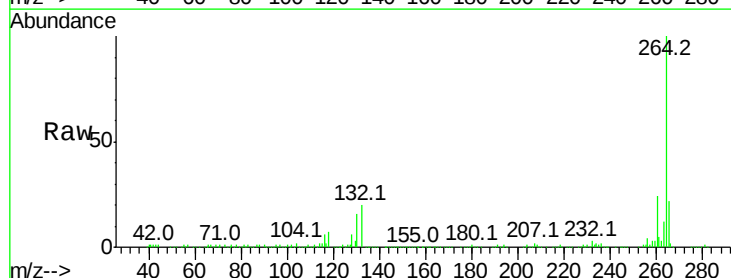
Tgt Ion:264 Resp: 263863

Ion Ratio Lower Upper

264 100

260 23.7 19.5 29.3

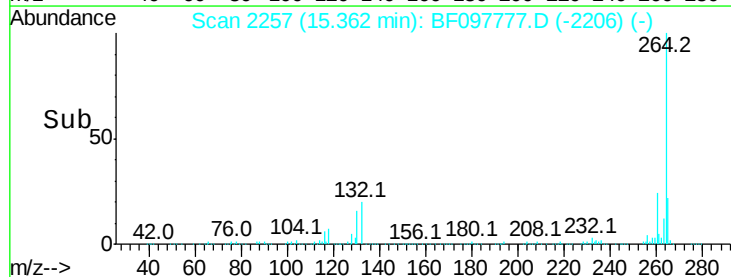
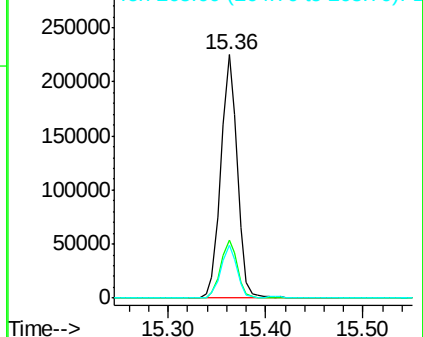
265 22.0 17.2 25.8

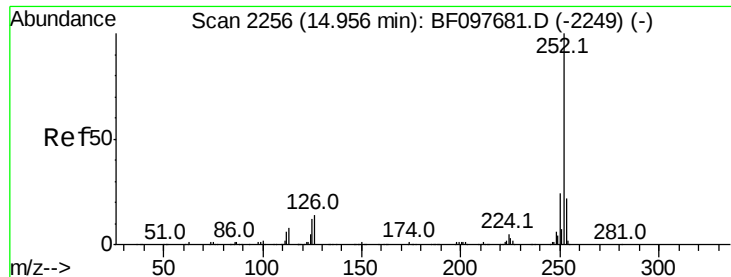


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 2.284 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

Instrument :

BNA\_F

ClientSampleId :

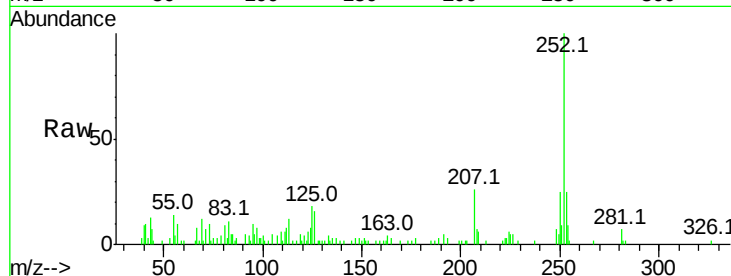
Tot Ion:252 Resp: 37983

Ion Ratio Lower Upper

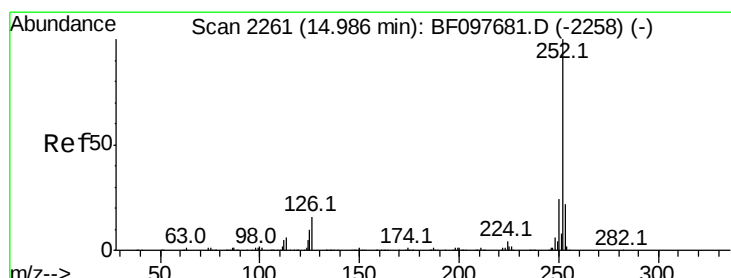
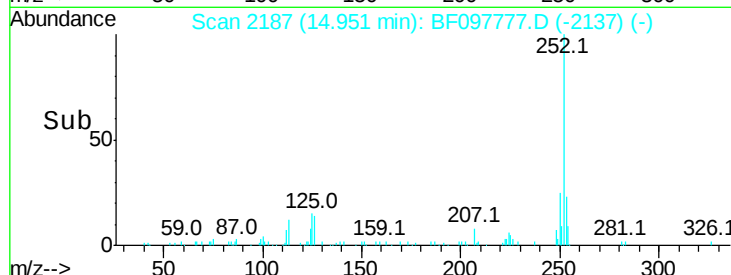
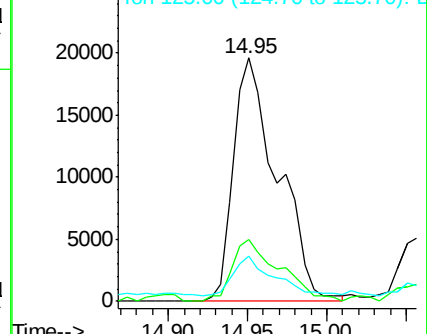
252 100

253 25.2 18.1 27.1

125 18.4 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: 2.431 ng

RT: 14.95 min Scan# 2187

Delta R.T. -0.04 min

Lab File: BF097777.D

Acq: 17 Aug 2017 9:38

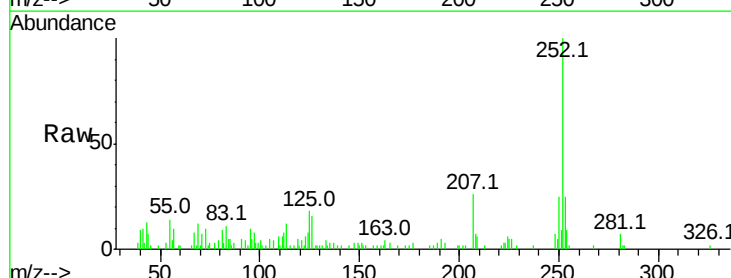
Tgt Ion:252 Resp: 37983

Ion Ratio Lower Upper

252 100

253 25.2 18.4 27.6

125 18.4 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

