

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072916\  
 Data File : BF089382.D  
 Acq On : 29 Jul 2016 00:39  
 Operator : UM/SJ  
 Sample : H4176-11  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-34-0.5-1.0

Quant Time: Jul 29 03:13:21 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 28 16:02:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.52  | 152  | 49859    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.80  | 136  | 196389   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.55  | 164  | 92322    | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.03 | 188  | 146886   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.65 | 240  | 96371    | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 14.98 | 264  | 96765    | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.10  | 112  | 298787   | 95.69 | ng    | -0.01    |
| 7) Phenol-d6                | 6.18  | 99   | 387399   | 93.88 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.10  | 82   | 256354   | 77.05 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.34 | 330  | 72714    | 95.10 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.89  | 172  | 456583   | 72.58 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.61 | 244  | 282449   | 68.60 | ng    | -0.02    |

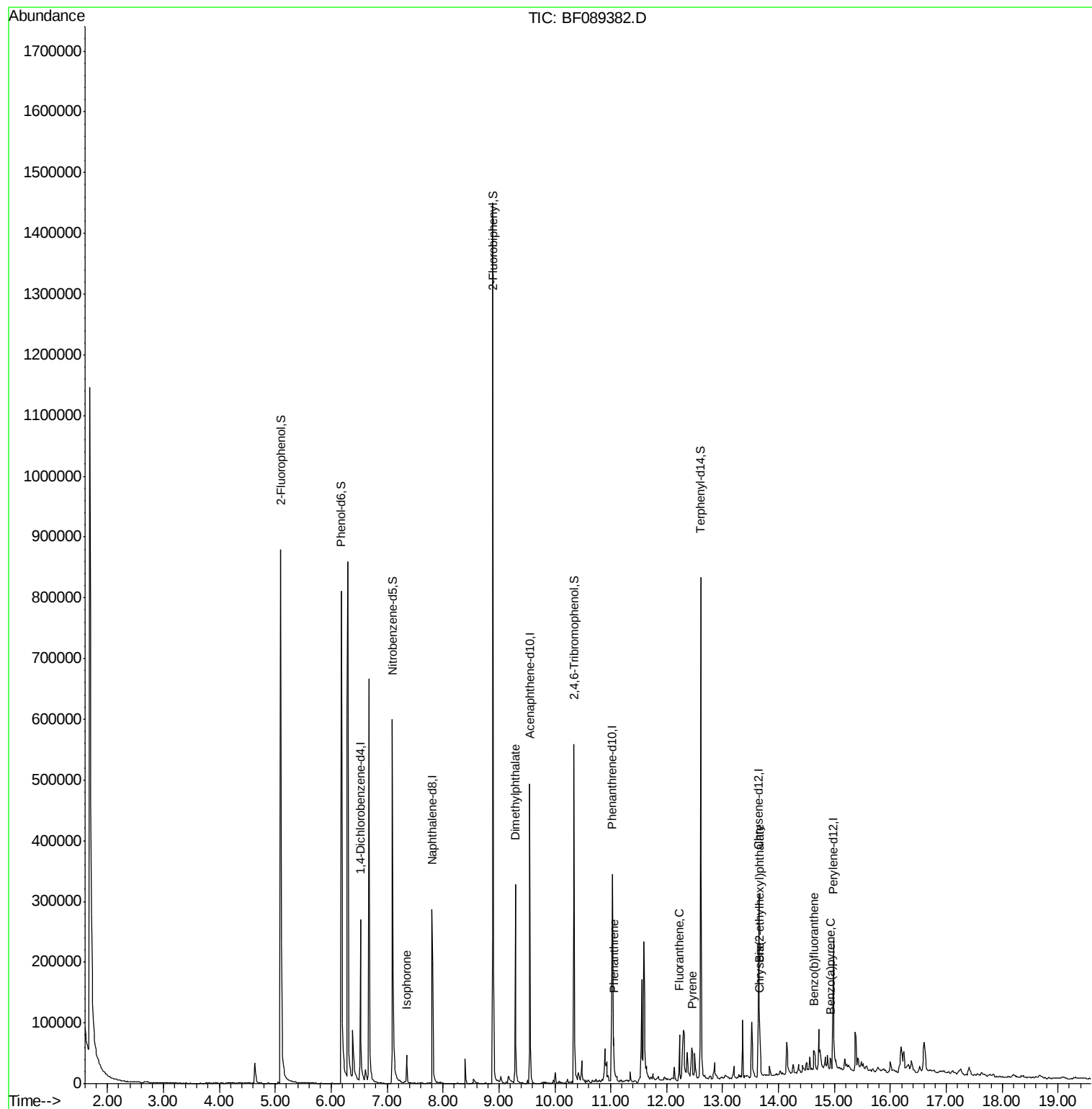
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 25) Isophorone                 | 7.35  | 82   | 32936    | 4.91  | ng    | # 94   |
| 49) Dimethylphthalate          | 9.29  | 163  | 122465   | 17.43 | ng    | 99     |
| 70) Phenanthrene               | 11.05 | 178  | 24253    | 3.20  | ng    | 98     |
| 74) Fluoranthene               | 12.23 | 202  | 35228    | 4.42  | ng    | 98     |
| 77) Pyrene                     | 12.46 | 202  | 26059    | 3.57  | ng    | 98     |
| 82) Chrysene                   | 13.67 | 228  | 15429m   | 2.67  | ng    |        |
| 83) Bis(2-ethylhexyl)phthalate | 13.66 | 149  | 19176    | 3.99  | ng    | # 95   |
| 87) Benzo(b)fluoranthene       | 14.63 | 252  | 16426m   | 2.73  | ng    |        |
| 89) Benzo(a)pyrene             | 14.94 | 252  | 10856    | 2.01  | ng    | 96     |

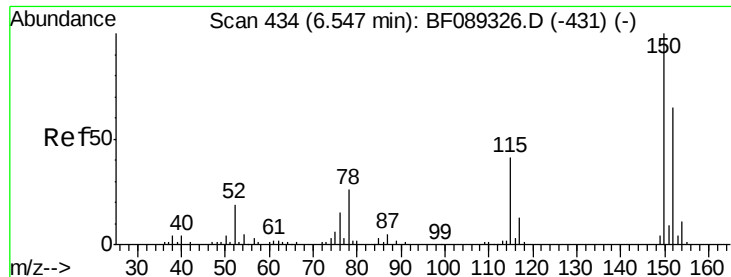
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072916\  
Data File : BF089382.D  
Acq On : 29 Jul 2016 00:39  
Operator : UM/SJ  
Sample : H4176-11  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-34-0.5-1.0

Quant Time: Jul 29 03:13:21 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 28 16:02:32 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0

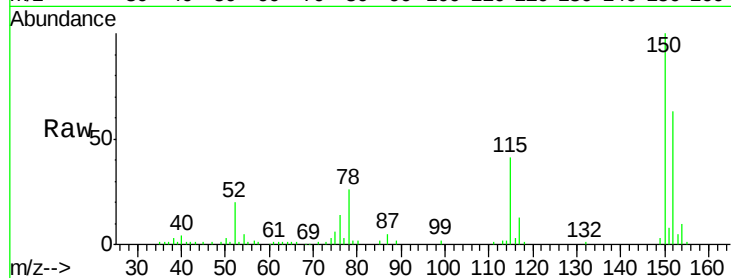
Tgt Ion:152 Resp: 49859

Ion Ratio Lower Upper

152 100

150 158.6 129.5 194.3

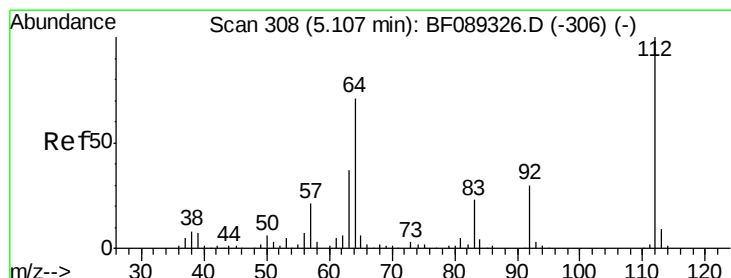
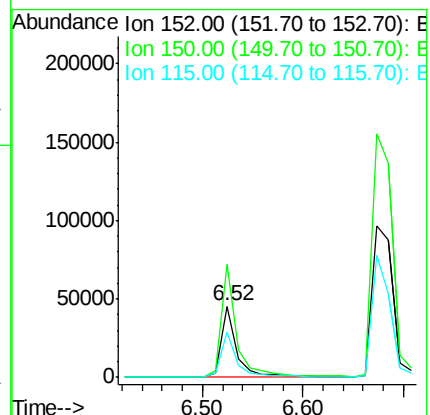
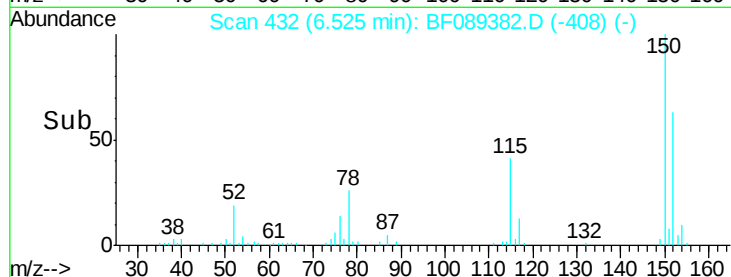
115 64.4 51.4 77.2



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: 95.69 ng

RT: 5.10 min Scan# 307

Delta R.T. -0.01 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

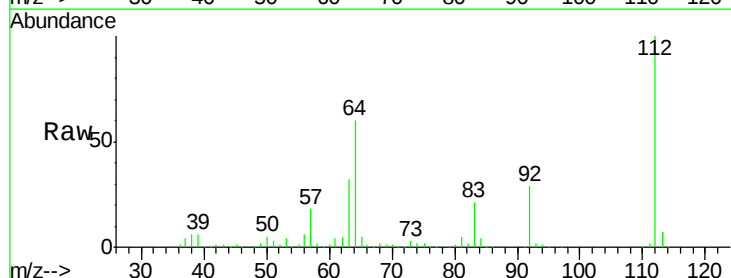
Tgt Ion:112 Resp: 298787

Ion Ratio Lower Upper

112 100

64 59.6 55.0 82.6

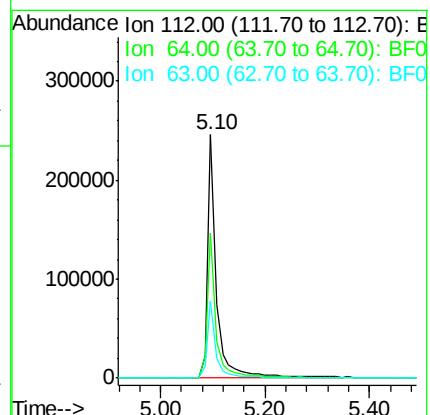
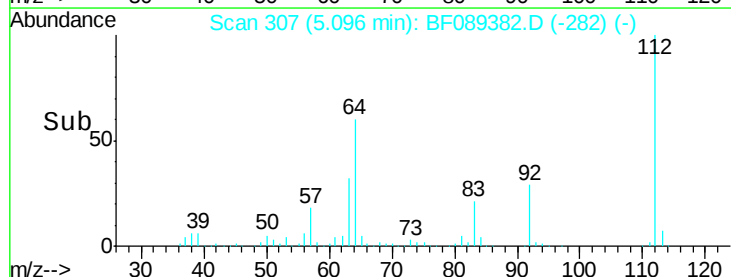
63 31.7 29.4 44.2

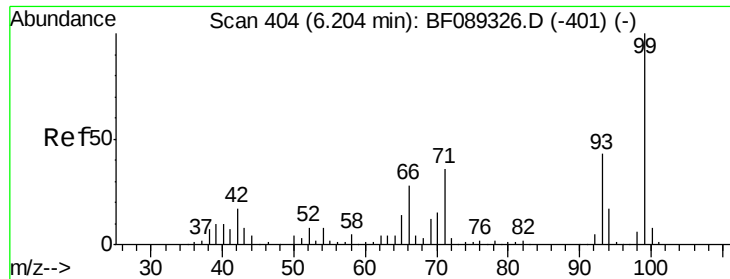


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 93.88 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0

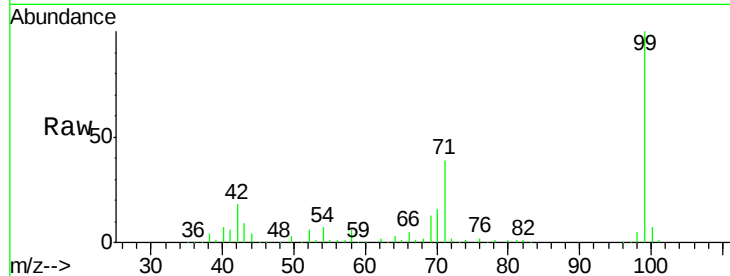
Tgt Ion: 99 Resp: 387399

Ion Ratio Lower Upper

99 100

42 18.5 13.6 20.4

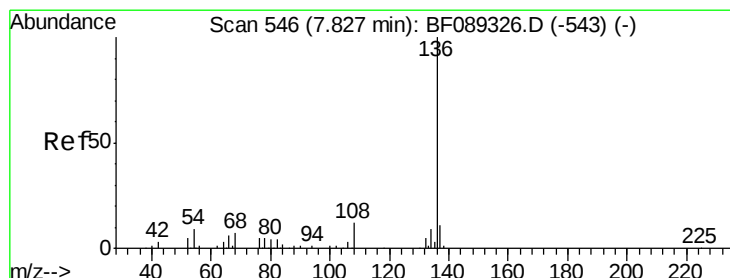
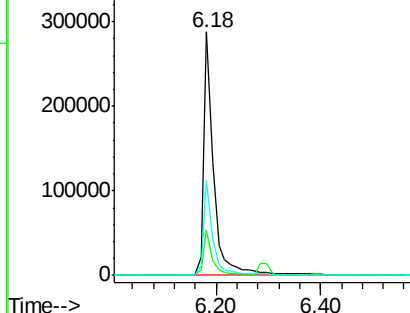
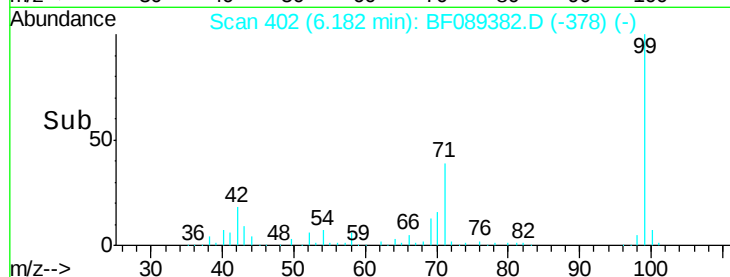
71 38.9 29.4 44.2



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: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Tgt Ion: 136 Resp: 196389

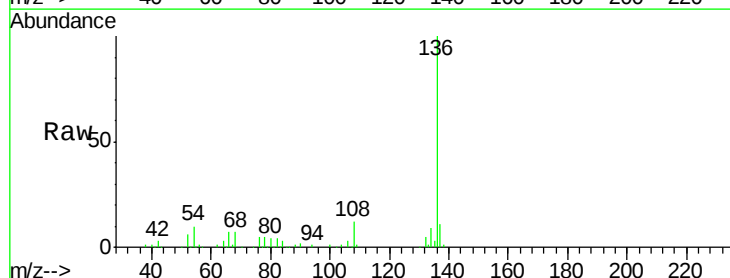
Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 10.3 7.0 10.4

68 7.2 4.9 7.3

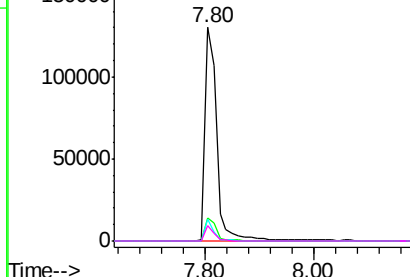
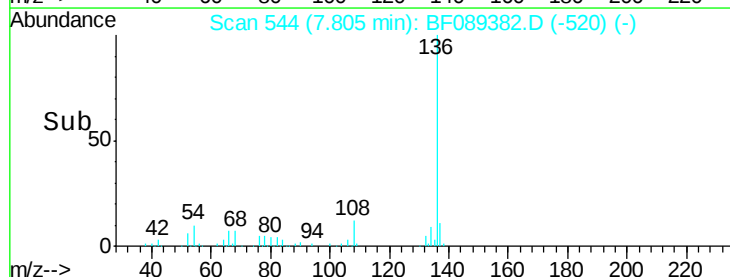


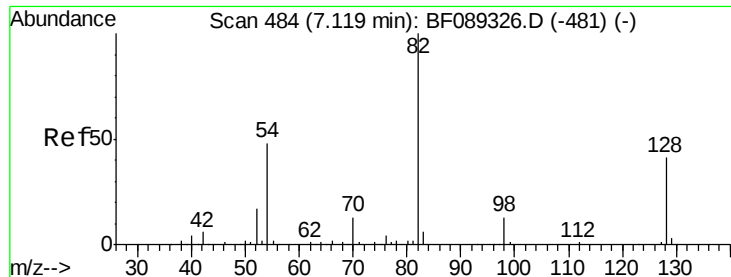
Abundance Ion 136.00 (135.70 to 136.70): E

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

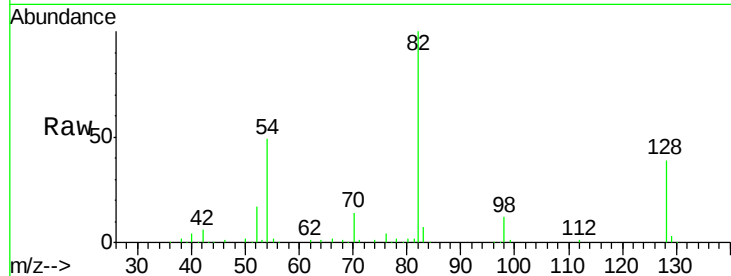




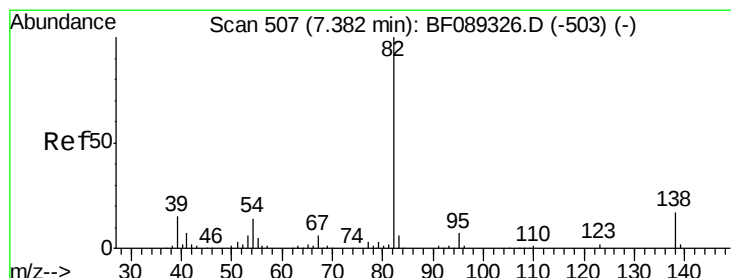
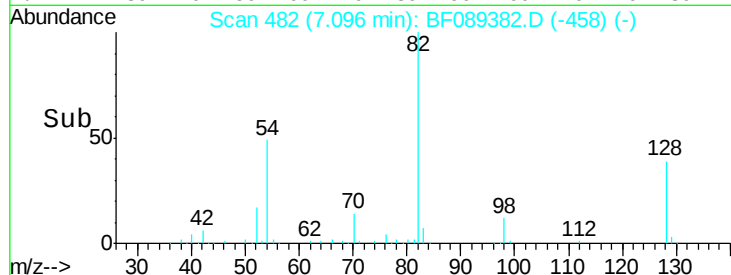
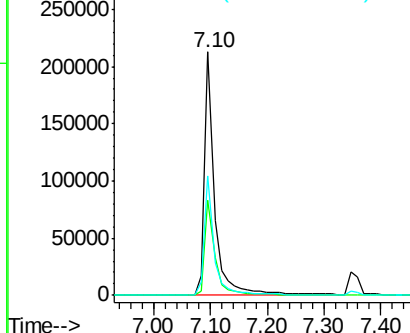
#23  
 Nitrobenzene-d5  
 Concen: 77.05 ng  
 RT: 7.10 min Scan# 482  
 Delta R.T. -0.02 min  
 Lab File: BF089382.D  
 Acq: 29 Jul 2016 00:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-34-0.5-1.0

Tgt Ion: 82 Resp: 256354  
 Ion Ratio Lower Upper  
 82 100  
 128 39.0 32.5 48.7  
 54 48.9 38.8 58.2

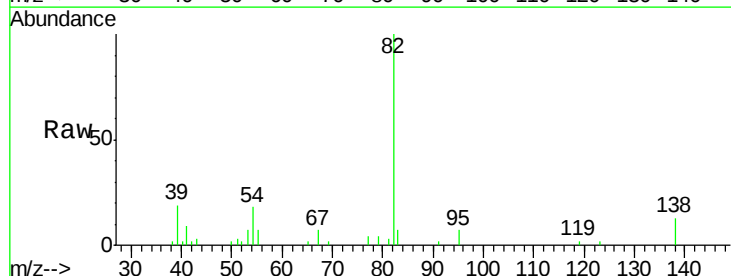


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

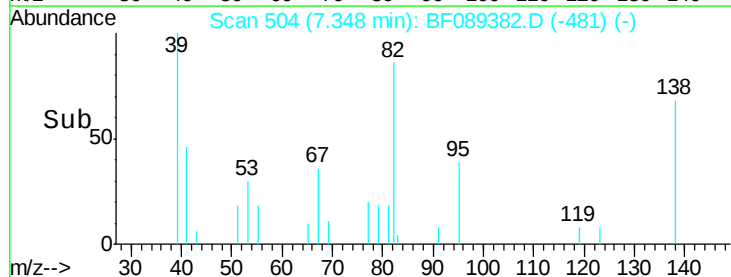
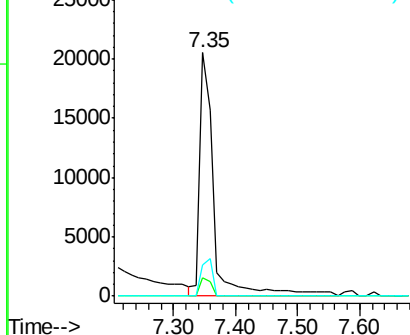


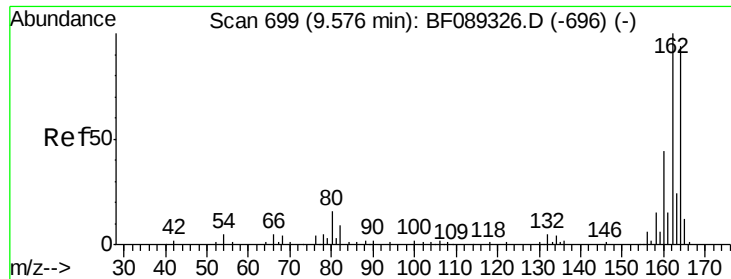
#25  
 Isophorone  
 Concen: 4.91 ng  
 RT: 7.35 min Scan# 504  
 Delta R.T. -0.03 min  
 Lab File: BF089382.D  
 Acq: 29 Jul 2016 00:39

Tgt Ion: 82 Resp: 32936  
 Ion Ratio Lower Upper  
 82 100  
 95 7.5 6.0 9.0  
 138 13.0 13.3 19.9#



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: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0

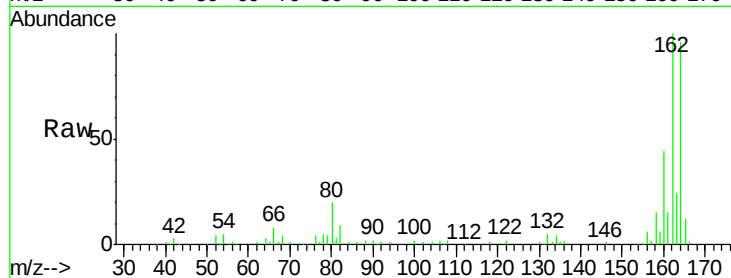
Tgt Ion:164 Resp: 92322

Ion Ratio Lower Upper

164 100

162 103.9 83.7 125.5

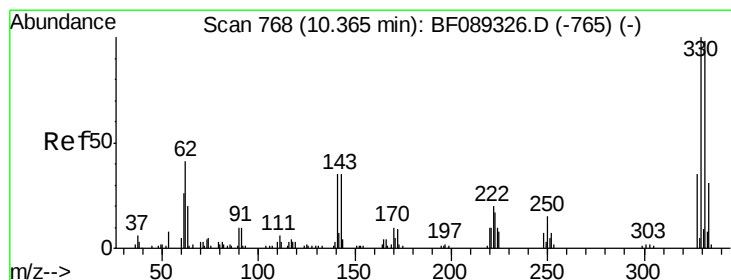
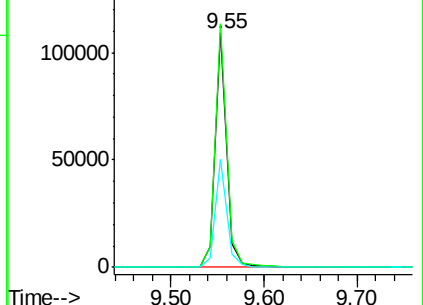
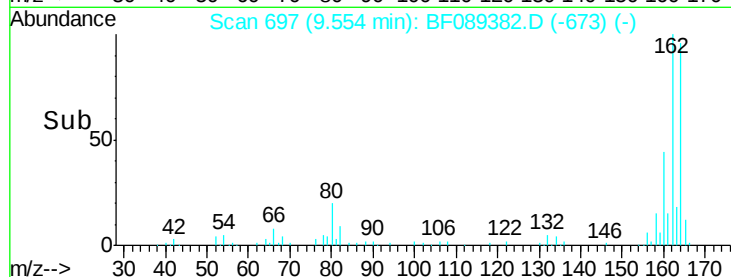
160 45.8 37.8 56.6



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



#41

2,4,6-Tribromophenol

Concen: 95.10 ng

RT: 10.34 min Scan# 766

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

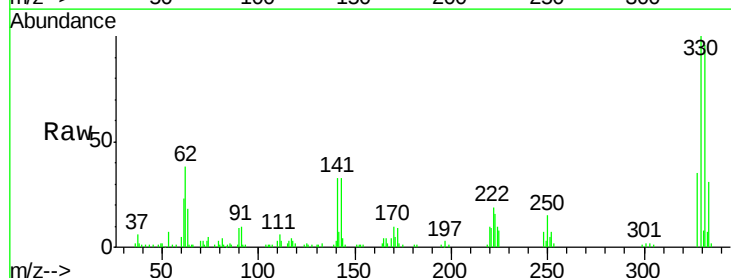
Tgt Ion:330 Resp: 72714

Ion Ratio Lower Upper

330 100

332 95.9 76.8 115.2

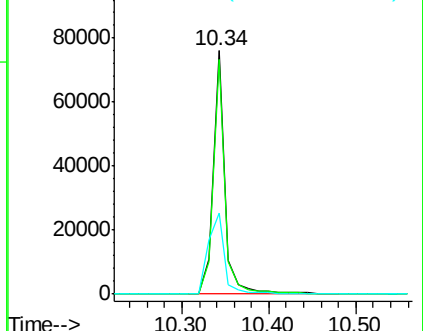
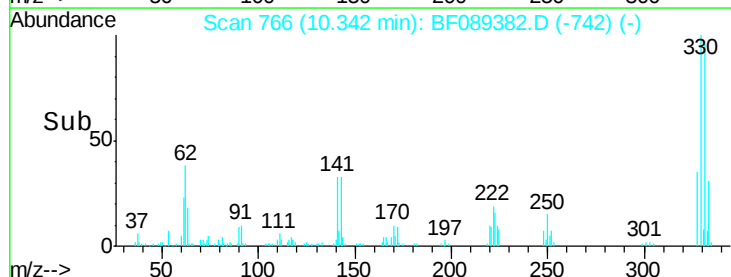
141 45.3 37.3 55.9

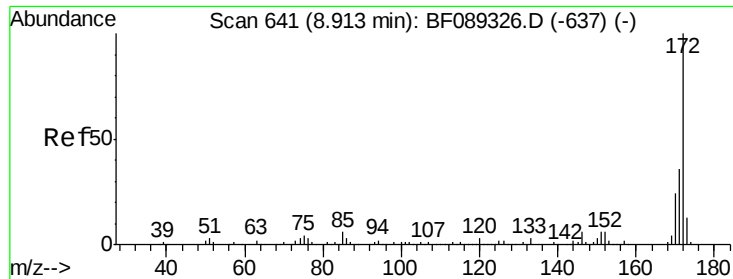


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

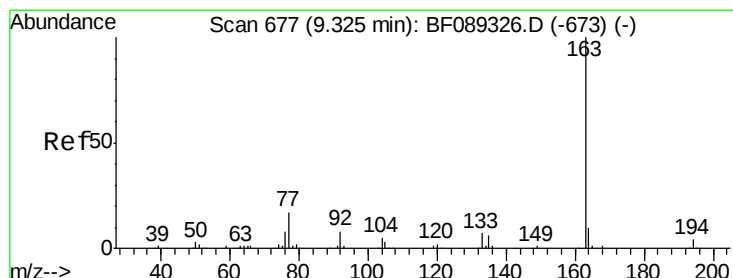
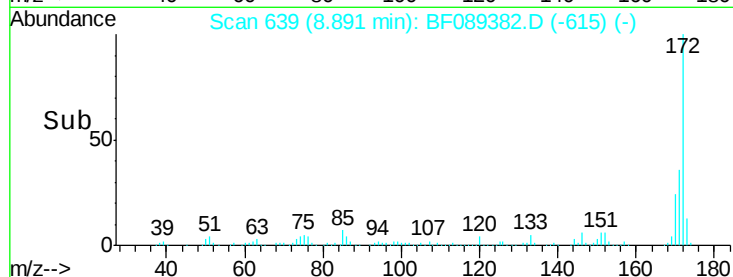
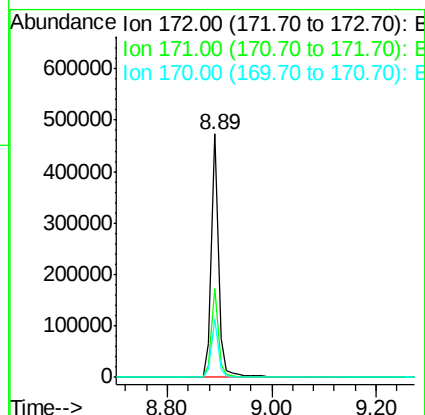
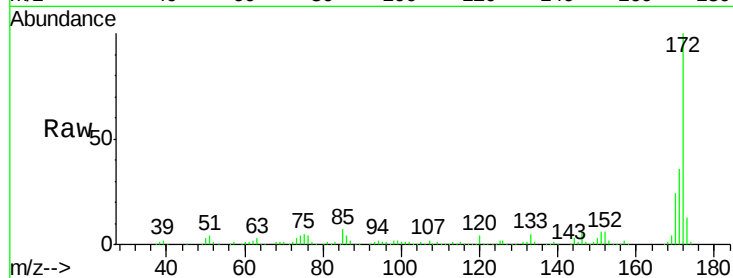




#44  
2-Fluorobiphenyl  
Concen: 72.58 ng  
RT: 8.89 min Scan# 639  
Delta R.T. -0.02 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

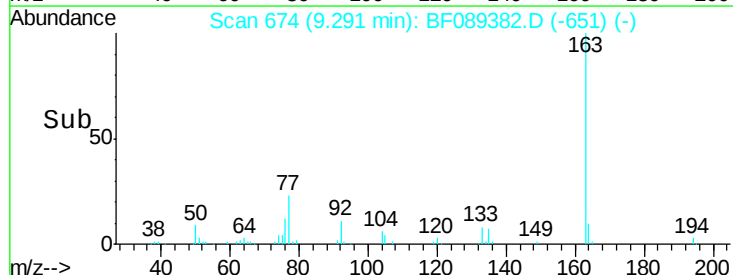
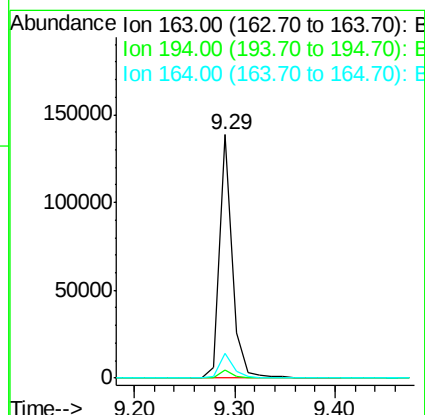
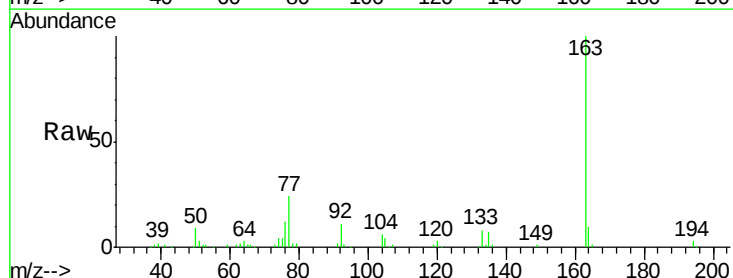
Instrument :  
BNA\_F  
ClientSampleId :  
SB-34-0.5-1.0

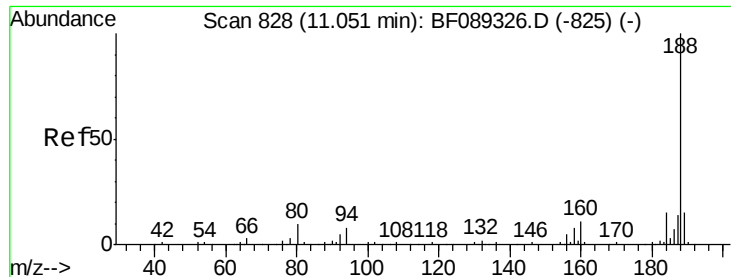
Tgt Ion:172 Resp: 456583  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.2 43.8  
170 24.1 19.2 28.8



#49  
Dimethylphthalate  
Concen: 17.43 ng  
RT: 9.29 min Scan# 674  
Delta R.T. -0.03 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

Tgt Ion:163 Resp: 122465  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.8 4.2  
164 10.1 7.8 11.8

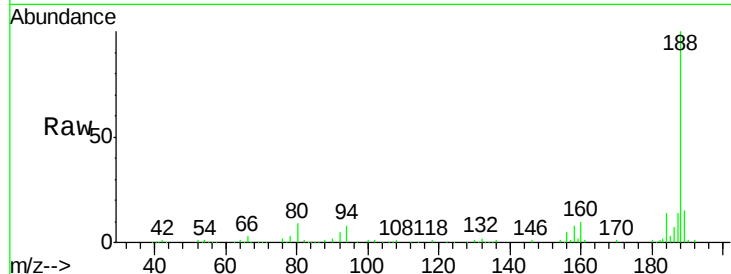




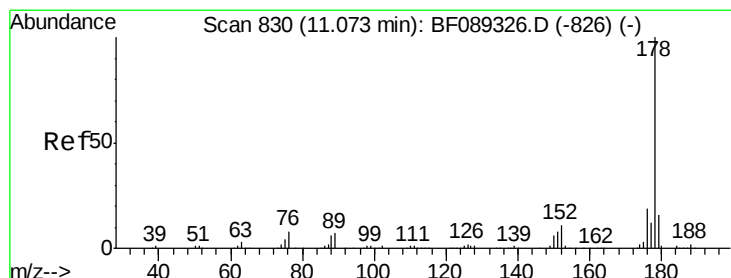
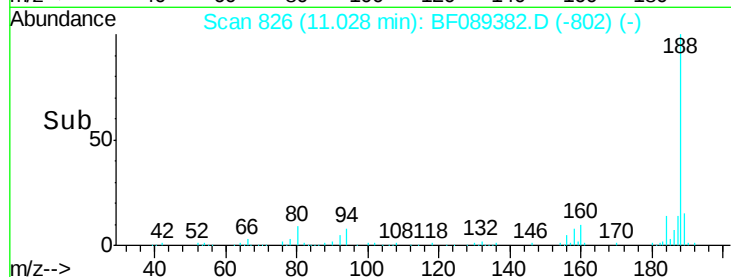
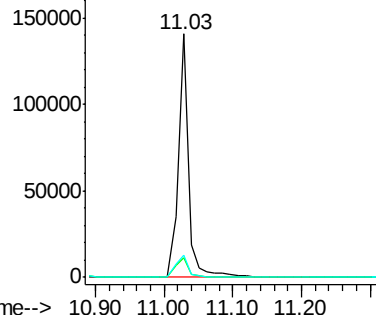
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.03 min Scan# 826  
Delta R.T. -0.02 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

Instrument :  
BNA\_F  
ClientSampleId :  
SB-34-0.5-1.0

Tgt Ion:188 Resp: 146886  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.5 9.7  
80 9.0 7.2 10.8

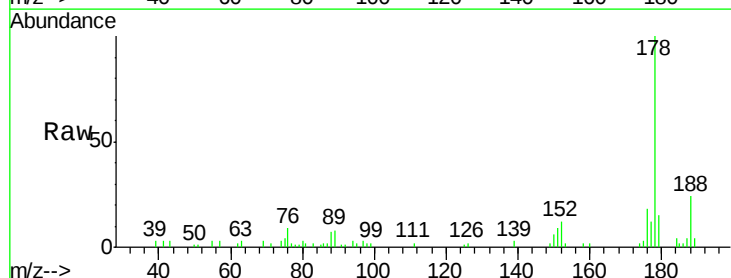


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

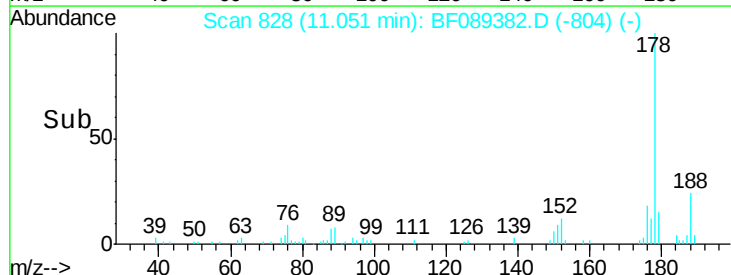
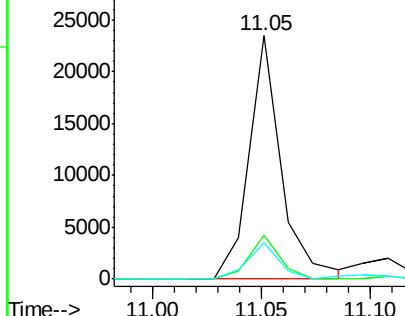


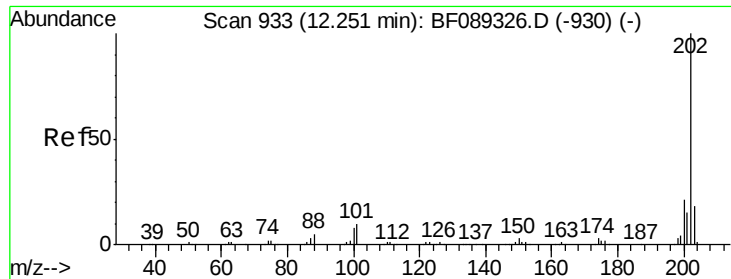
#70  
Phenanthrene  
Concen: 3.20 ng  
RT: 11.05 min Scan# 828  
Delta R.T. -0.02 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

Tgt Ion:178 Resp: 24253  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.5 23.3  
179 14.7 12.3 18.5



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

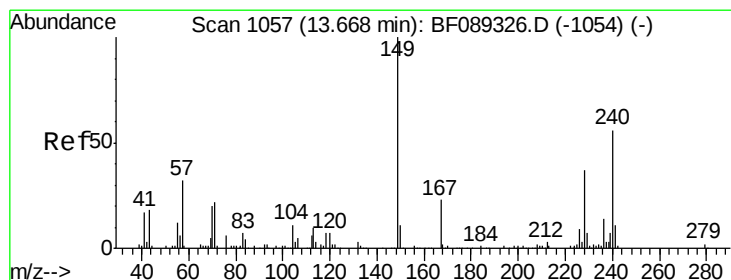
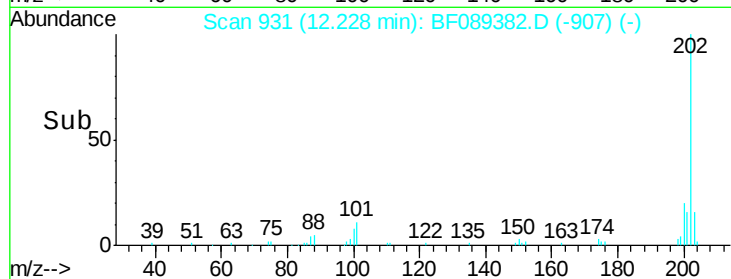
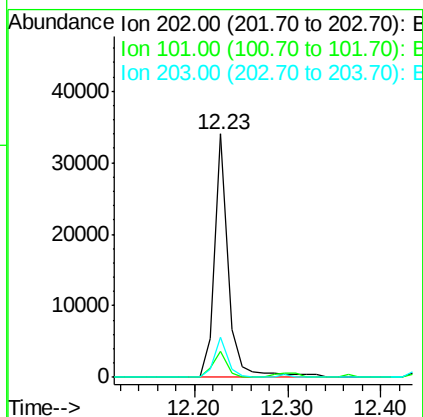
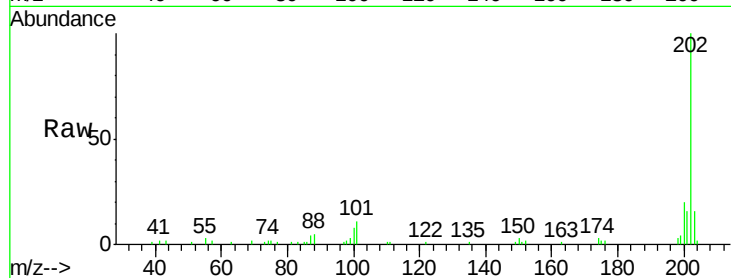




#74  
**Fluoranthene**  
 Concen: 4.42 ng  
 RT: 12.23 min Scan# 931  
 Delta R.T. -0.02 min  
 Lab File: BF089382.D  
 Acq: 29 Jul 2016 00:39

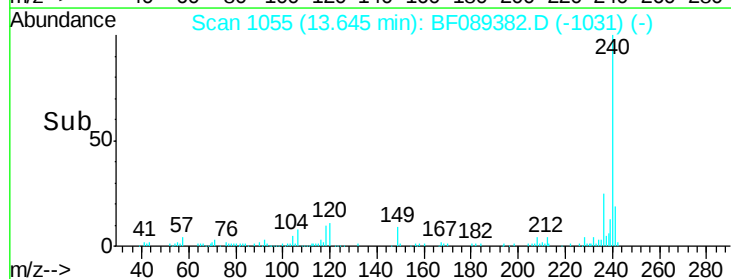
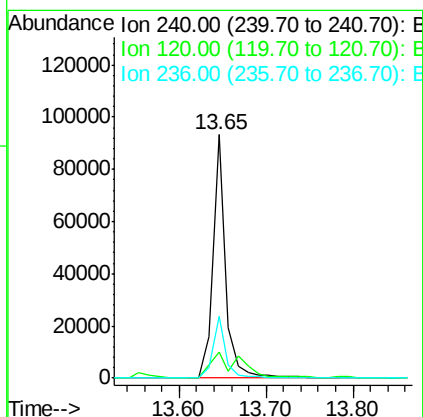
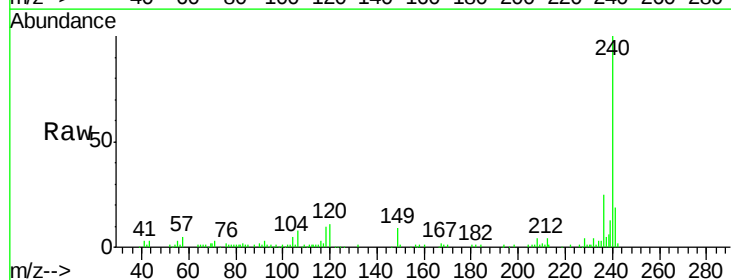
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-34-0.5-1.0

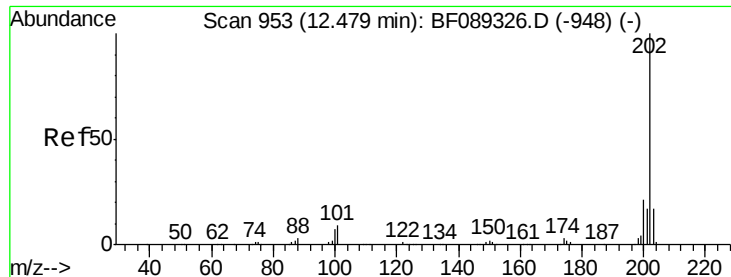
Tgt Ion:202 Resp: 35228  
 Ion Ratio Lower Upper  
 202 100  
 101 10.7 0.0 29.9  
 203 16.4 0.0 37.3



#75  
**Chrysene-d12**  
 Concen: 20.00 ng  
 RT: 13.65 min Scan# 1055  
 Delta R.T. -0.02 min  
 Lab File: BF089382.D  
 Acq: 29 Jul 2016 00:39

Tgt Ion:240 Resp: 96371  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 9.1 13.7  
 236 25.3 20.6 30.8





#77

Pyrene

Concen: 3.57 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0

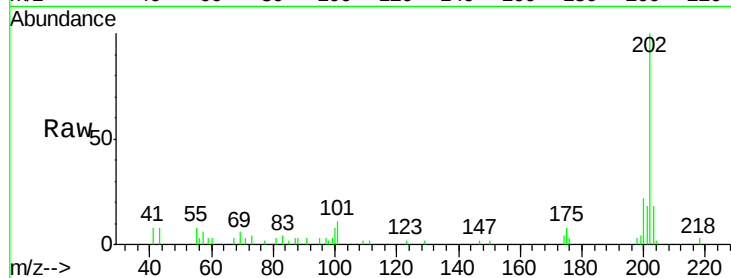
Tgt Ion:202 Resp: 26059

Ion Ratio Lower Upper

202 100

200 22.3 16.9 25.3

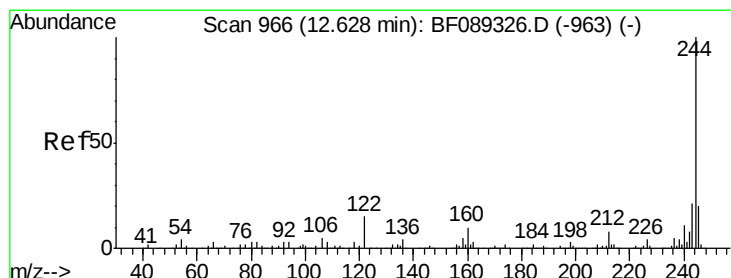
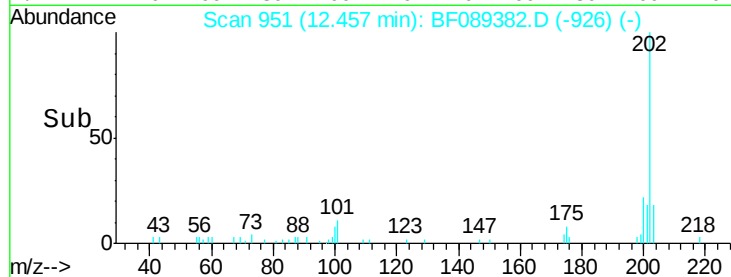
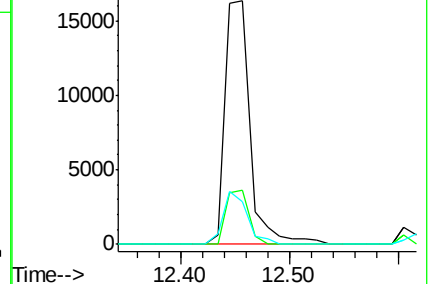
203 17.7 14.0 21.0



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: 68.60 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

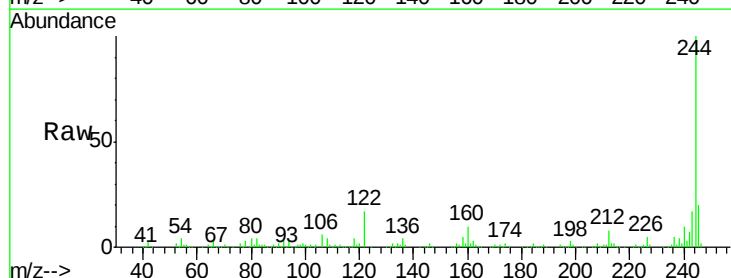
Tgt Ion:244 Resp: 282449

Ion Ratio Lower Upper

244 100

212 8.3 6.5 9.7

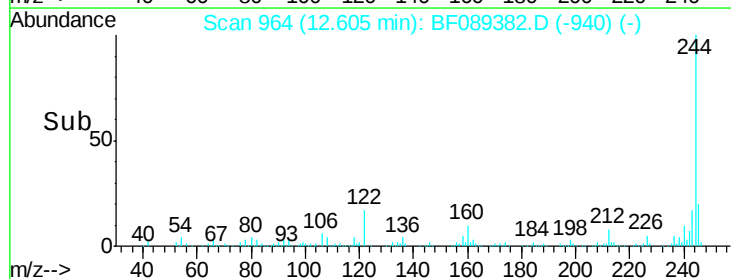
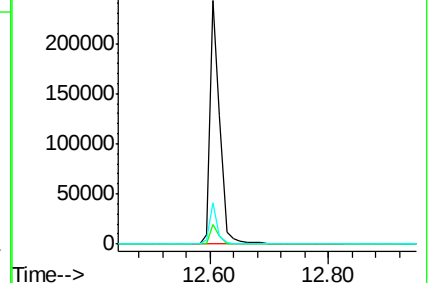
122 17.0 11.4 17.0

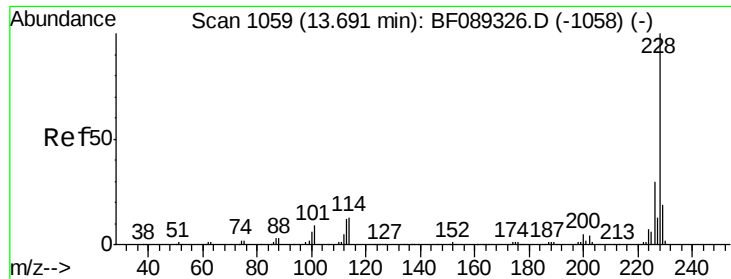


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#82

Chrysene

Concen: 2.67 ng m

RT: 13.67 min Scan# 1057

Delta R.T. -0.02 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0

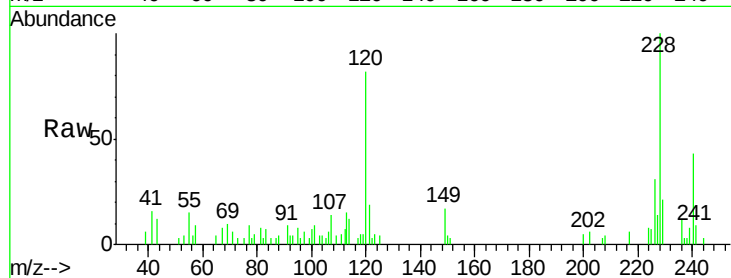
Tgt Ion: 228 Resp: 15429

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.2

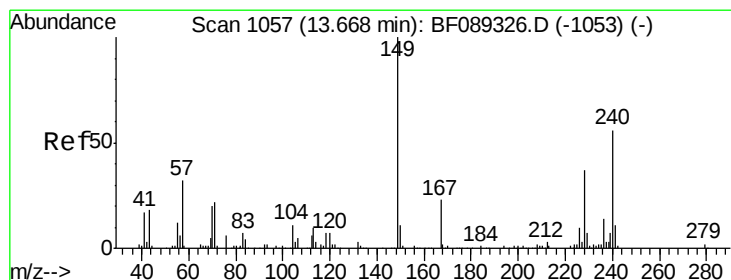
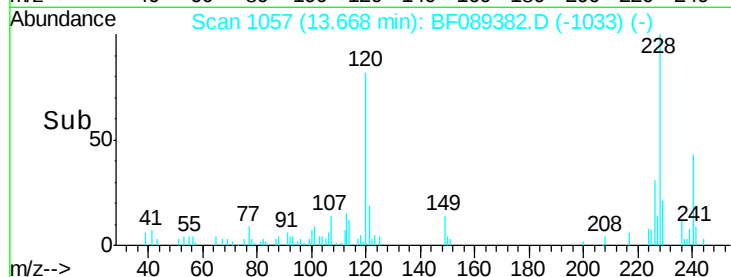
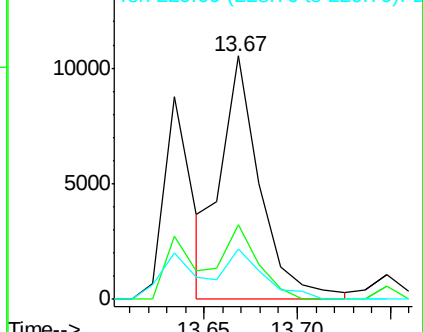
229 20.9 15.9 23.9



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.99 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.01 min

Lab File: BF089382.D

Acq: 29 Jul 2016 00:39

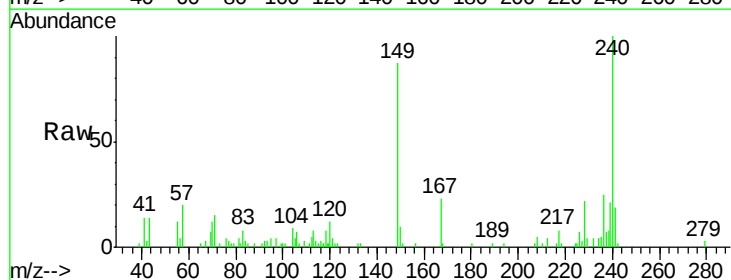
Tgt Ion: 149 Resp: 19176

Ion Ratio Lower Upper

149 100

167 26.0 18.8 28.2

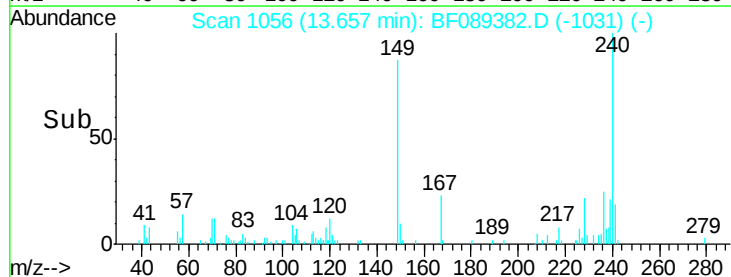
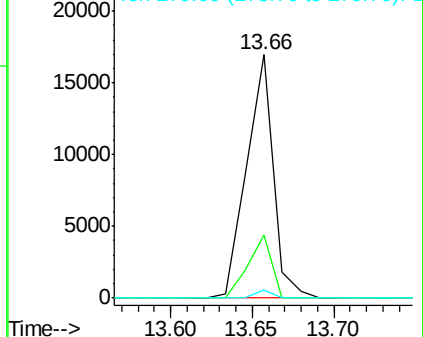
279 3.6 1.4 2.0#

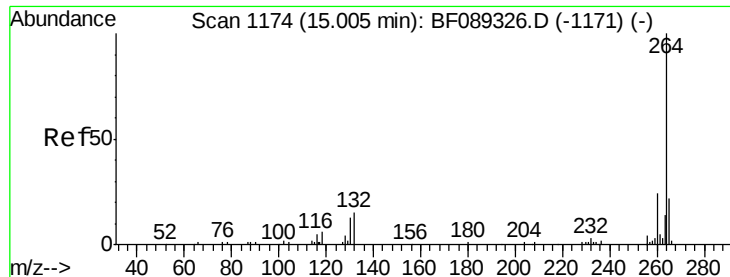


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

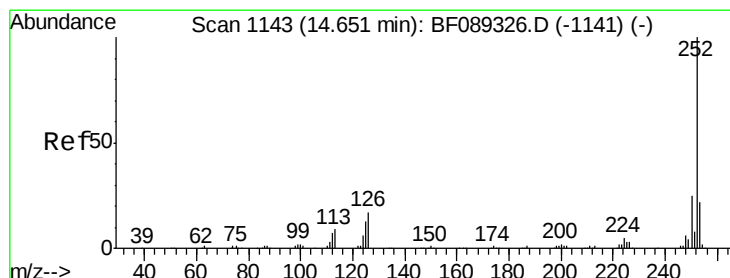
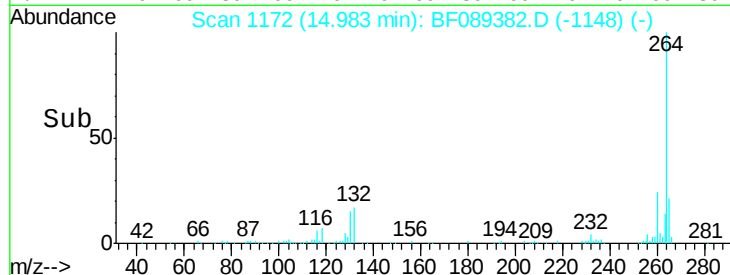
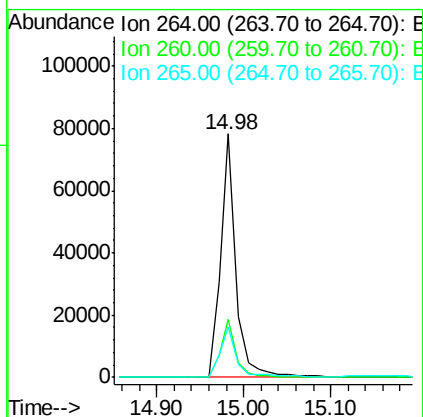
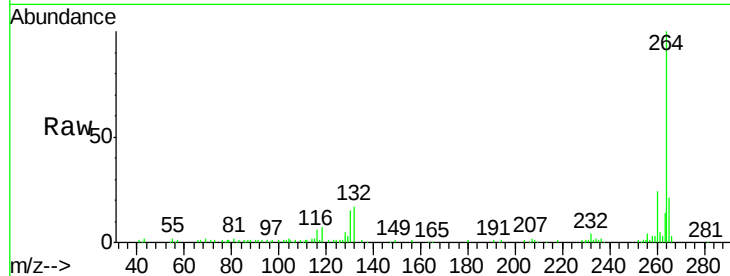




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 14.98 min Scan# 1172  
Delta R.T. -0.02 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

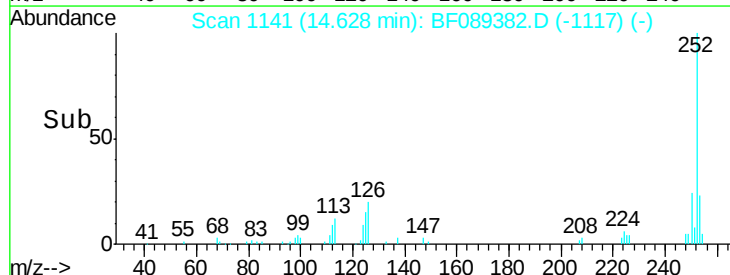
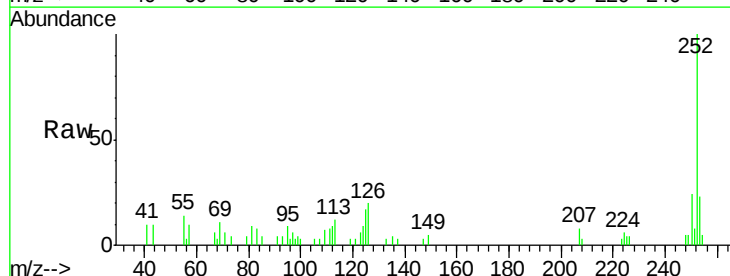
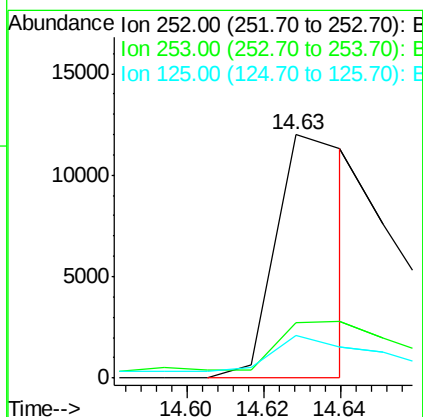
Instrument :  
BNA\_F  
ClientSampleId :  
SB-34-0.5-1.0

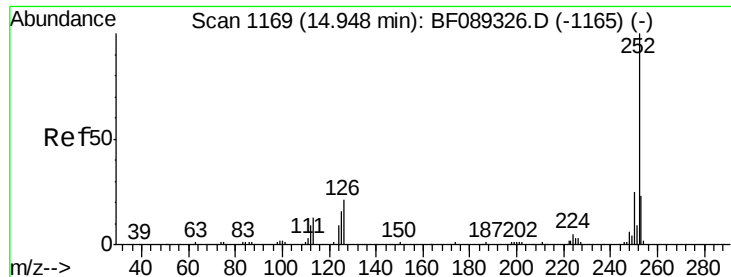
Tgt Ion: 264 Resp: 96765  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.0 28.4  
265 20.9 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 2.73 ng m  
RT: 14.63 min Scan# 1141  
Delta R.T. -0.02 min  
Lab File: BF089382.D  
Acq: 29 Jul 2016 00:39

Tgt Ion: 252 Resp: 16426  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.2 25.8  
125 17.4 9.7 14.5#





#89

Benzo(a)pyrene

Concen: 2.01 ng

RT: 14.94 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF089382.D

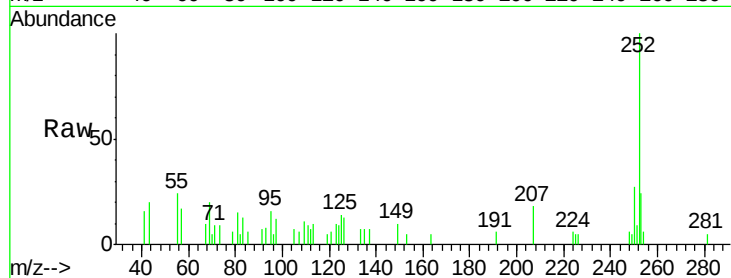
Acq: 29 Jul 2016 00:39

Instrument :

BNA\_F

ClientSampleId :

SB-34-0.5-1.0



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 10856 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 24.0  | 17.4  | 26.2  |
| 125      | 13.8  | 12.4  | 18.6  |

