

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120115\  
 Data File : BF083409.D  
 Acq On : 2 Dec 2015 9:49  
 Operator : UM/IZ  
 Sample : G4441-04  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-E.TRANS.3

Quant Time: Dec 02 10:14:32 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

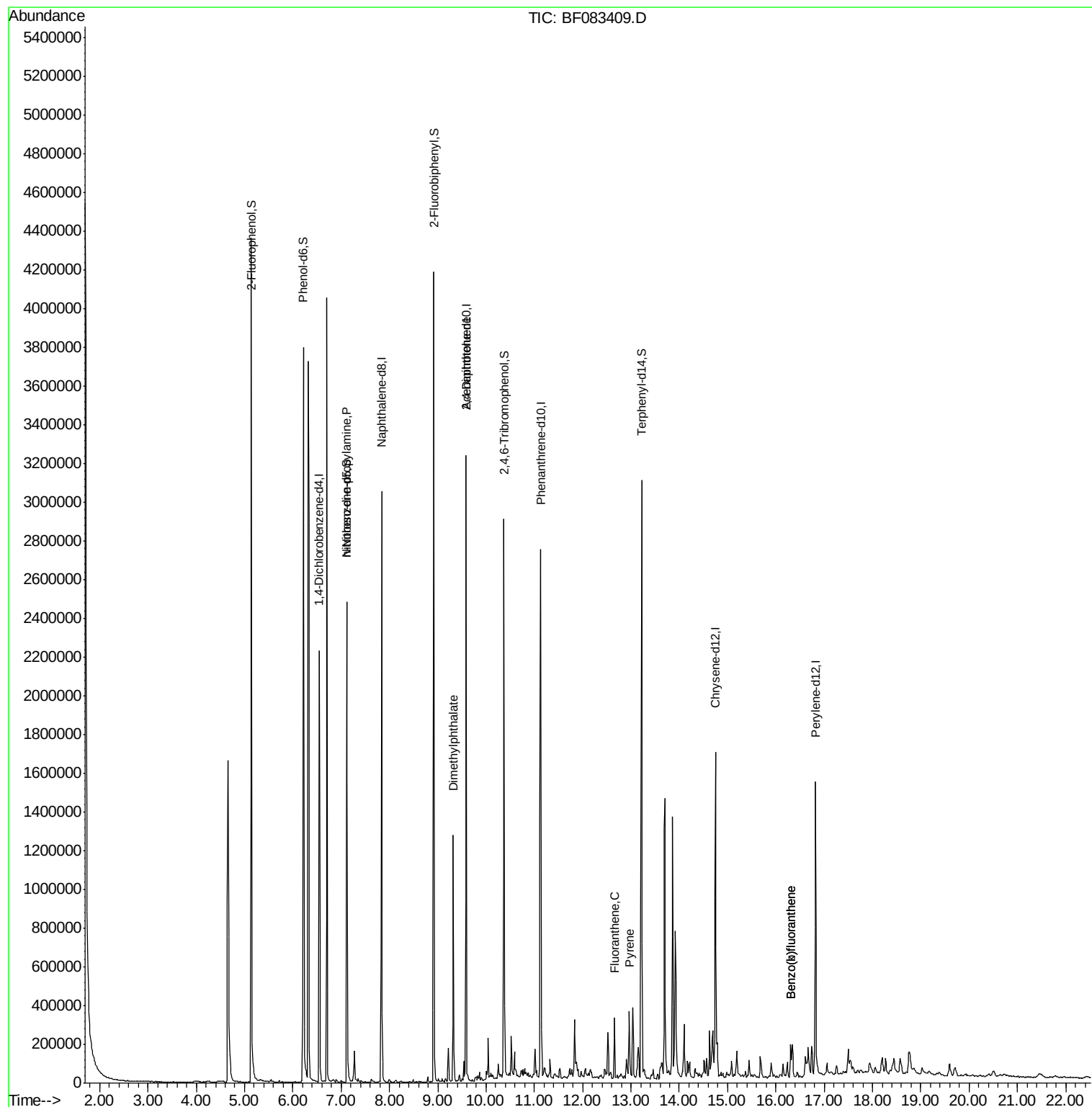
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.54  | 152  | 332453   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.84  | 136  | 1290988  | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.58  | 164  | 663800   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.13 | 188  | 1155617  | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.75 | 240  | 779596   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 16.82 | 264  | 798623   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 1335345  | 60.27     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.21  | 99   | 1741490  | 57.43     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 1081340  | 36.82     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.37 | 330  | 323308   | 48.52     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 1734466  | 37.24     | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.22 | 244  | 1272164  | 38.92     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.18  | 77   | 2379     | Below Cal | #     | 6        |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70   | 143014   | 6.60      | ng    | # 82     |
| 49) Dimethylphthalate          | 9.32  | 163  | 489303   | 9.07      | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.58  | 165  | 86374    | 5.91      | ng    | # 6      |
| 74) Fluoranthene               | 12.66 | 202  | 180051   | 2.54      | ng    | 94       |
| 77) Pyrene                     | 12.97 | 202  | 170411   | 3.13      | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 16.31 | 252  | 154093   | 3.01      | ng    | 99       |
| 88) Benzo(k)fluoranthene       | 16.31 | 252  | 154093   | 3.18      | ng    | # 95     |

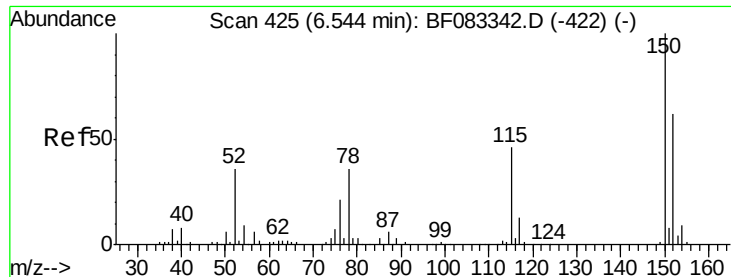
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 01 01:17:16 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.54 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

BNA\_F

ClientSampleId :

S-E.TRANS.3

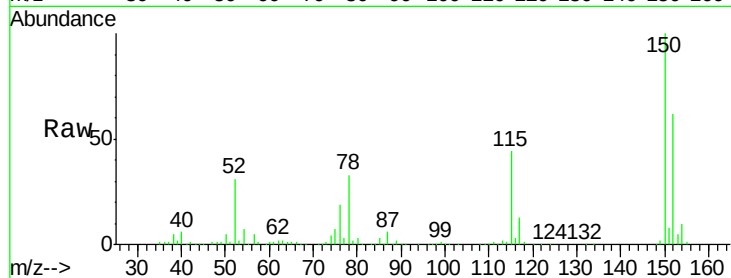
Tot Ion:152 Resp: 332453

Ion Ratio Lower Upper

152 100

150 161.8 129.8 194.8

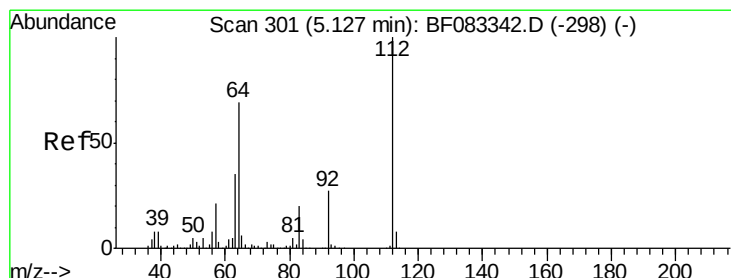
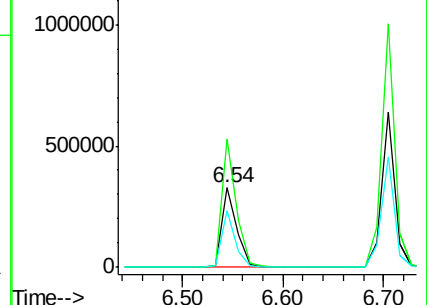
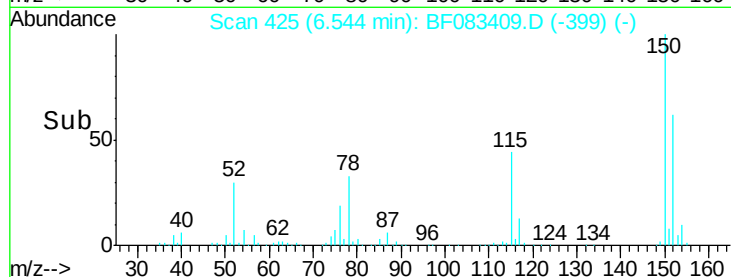
115 70.6 59.2 88.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 60.27 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

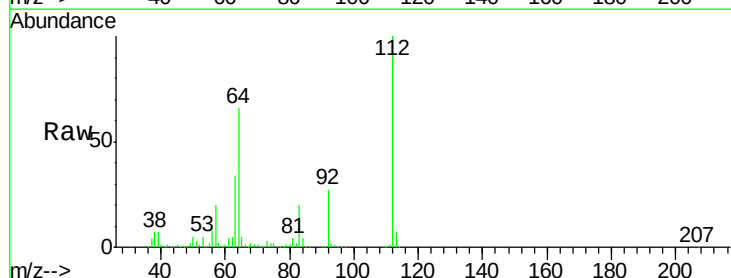
Tgt Ion:112 Resp: 1335345

Ion Ratio Lower Upper

112 100

64 66.1 55.6 83.4

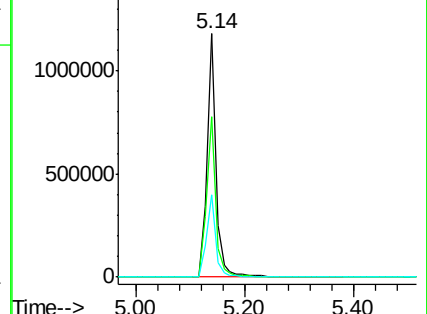
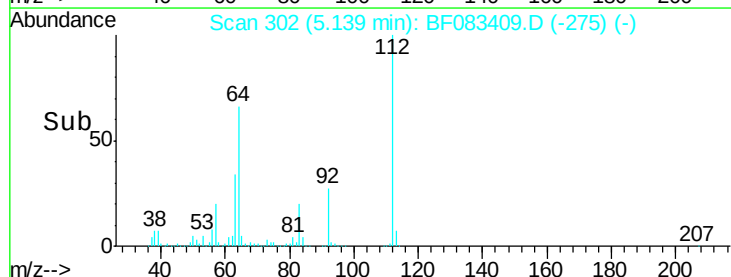
63 33.6 28.2 42.2

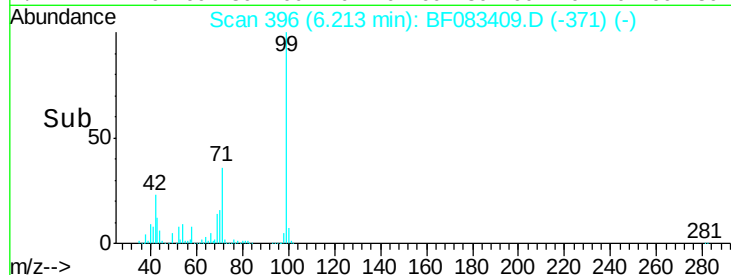
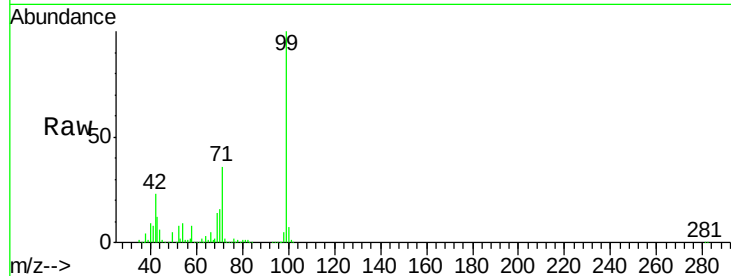
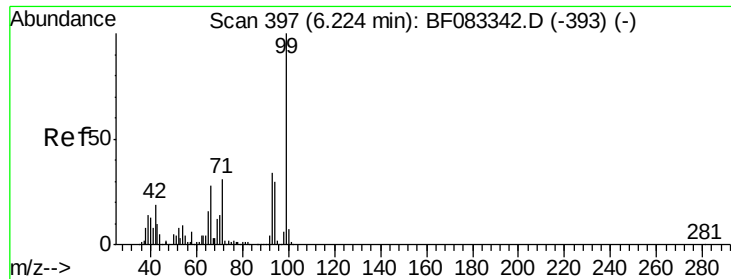


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 57.43 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

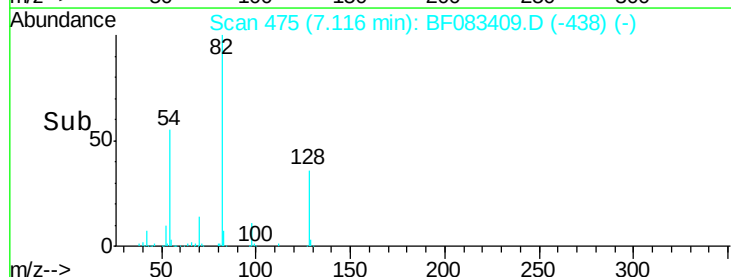
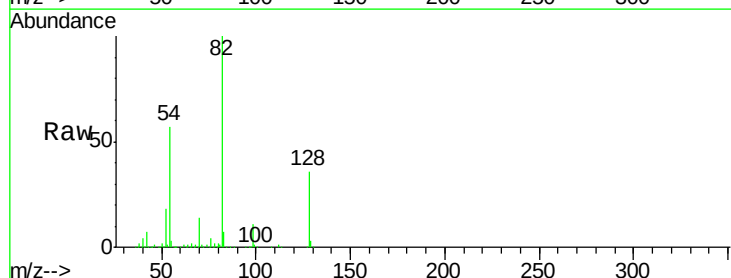
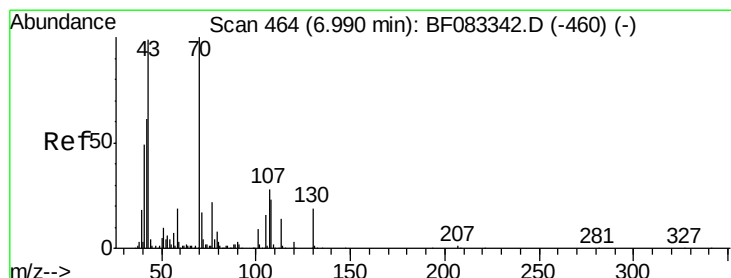
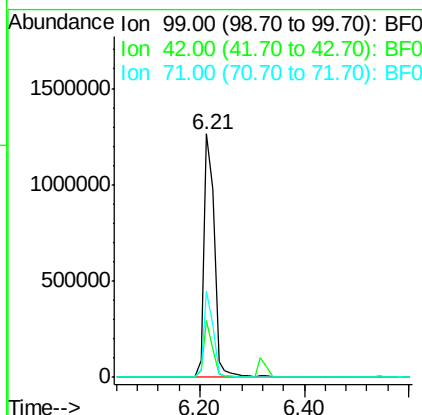
BNA\_F

ClientSampleId :

S-E.TRANS.3

Tot Ion: 99 Resp: 1741490

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.1  | 14.9  | 22.3# |
| 71  | 35.6  | 24.7  | 37.1  |



#19

n-Nitroso-di-n-propylamine

Concen: 6.60 ng

RT: 7.12 min Scan# 475

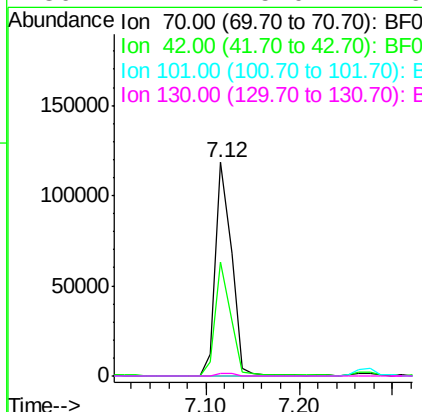
Delta R.T. 0.13 min

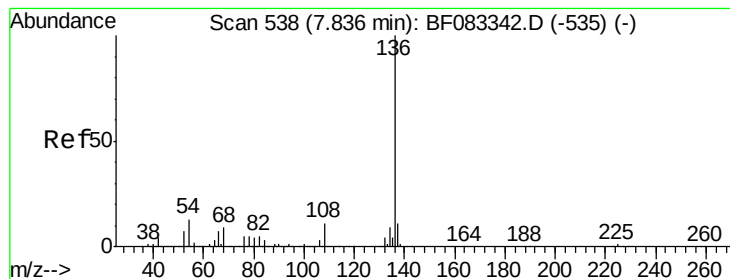
Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Tgt Ion: 70 Resp: 143014

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 53.2  | 48.8  | 73.2  |
| 101 | 0.0   | 7.1   | 10.7# |
| 130 | 1.4   | 15.0  | 22.6# |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

BNA\_F

ClientSampleId :

S-E.TRANS.3

Tot Ion:136 Resp: 1290988

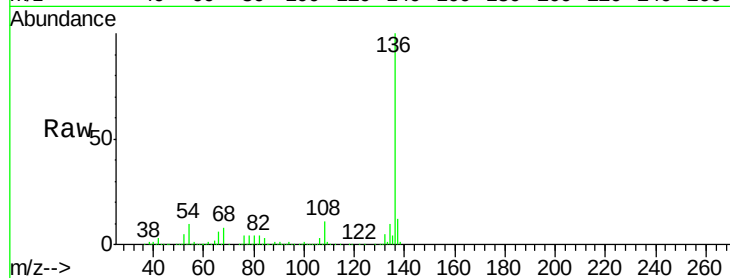
Ion Ratio Lower Upper

136 100

137 11.5 9.0 13.4

54 10.4 10.1 15.1

68 7.6 7.1 10.7

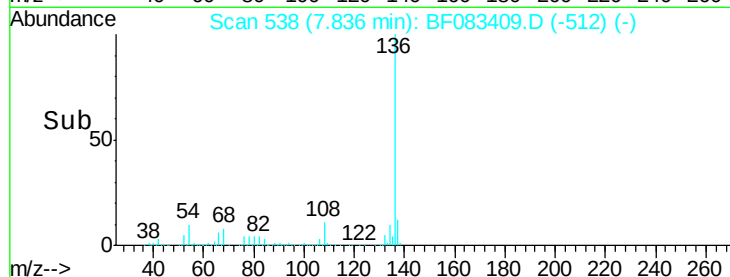


Abundance Ion 136.00 (135.70 to 136.70): E

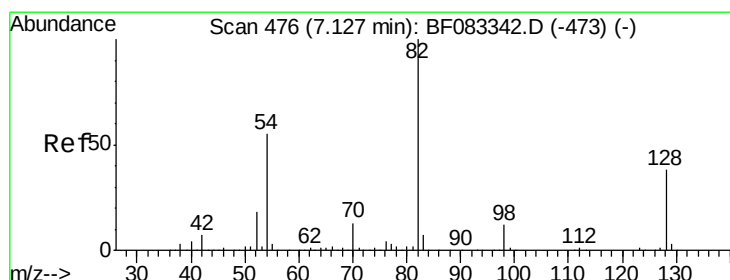
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time--> 7.70 7.80 7.90 8.00



#23

Nitrobenzene-d5

Concen: 36.82 ng

RT: 7.12 min Scan# 475

Delta R.T. -0.01 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

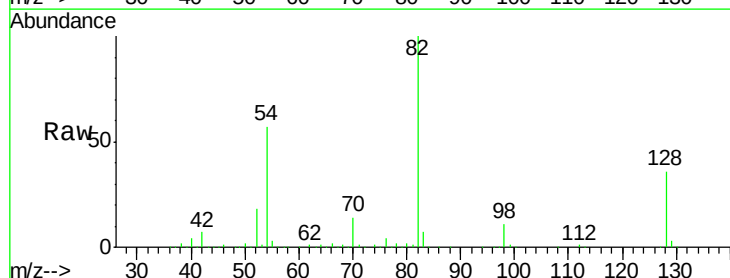
Tgt Ion: 82 Resp: 1081340

Ion Ratio Lower Upper

82 100

128 36.1 30.6 46.0

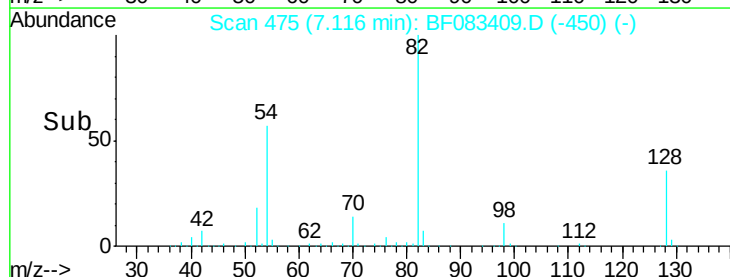
54 56.9 43.8 65.6



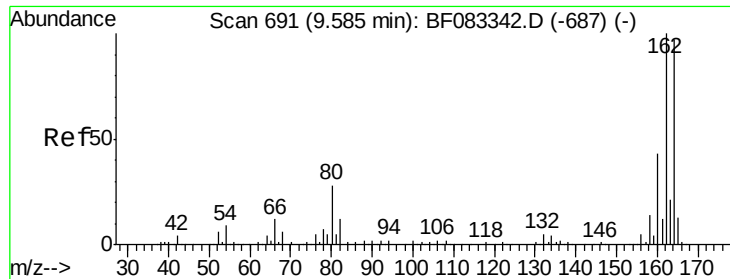
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



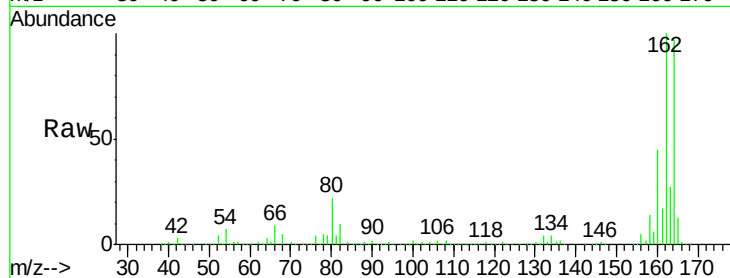
Time--> 7.00 7.10 7.20 7.30



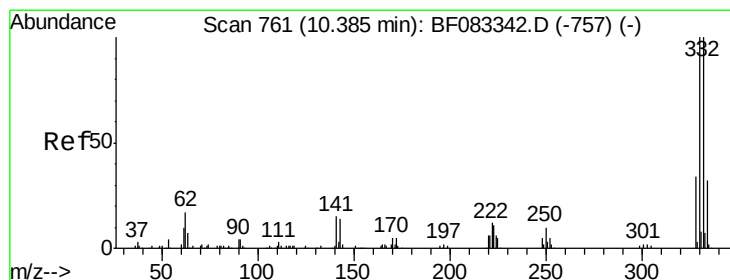
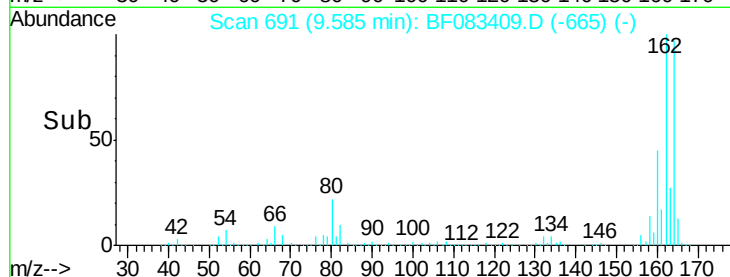
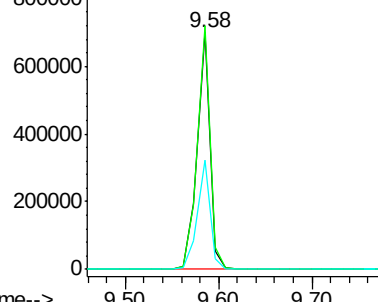
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.58 min Scan# 691  
Delta R.T. -0.00 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-E.TRANS.3

Tot Ion:164 Resp: 663800  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.6 123.8  
160 45.8 35.3 52.9

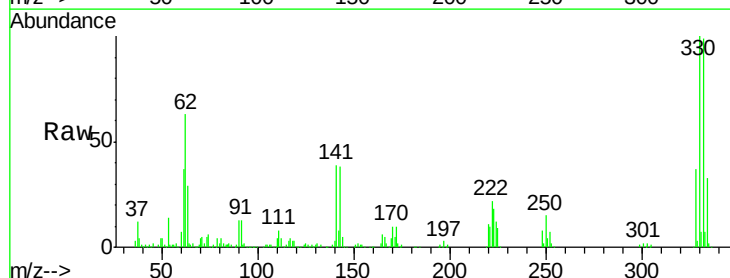


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

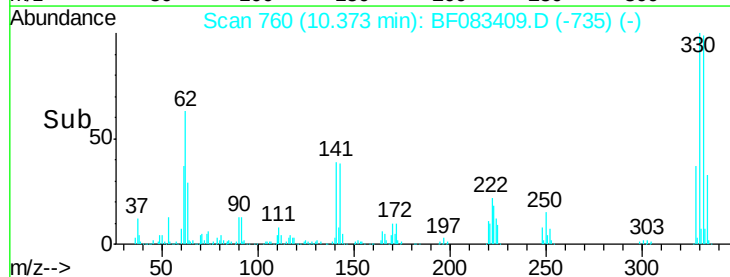
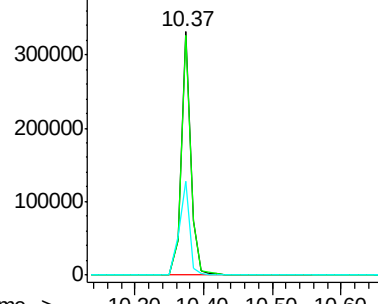


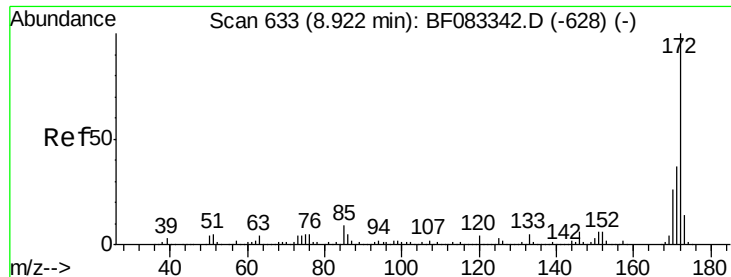
#41  
2,4,6-Tribromophenol  
Concen: 48.52 ng  
RT: 10.37 min Scan# 760  
Delta R.T. -0.01 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

Tgt Ion:330 Resp: 323308  
Ion Ratio Lower Upper  
330 100  
332 98.6 77.8 116.6  
141 41.9 29.4 44.0



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

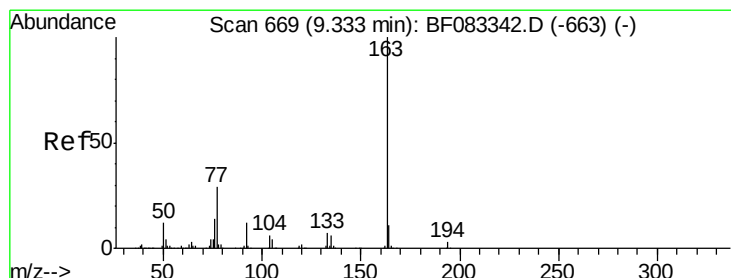
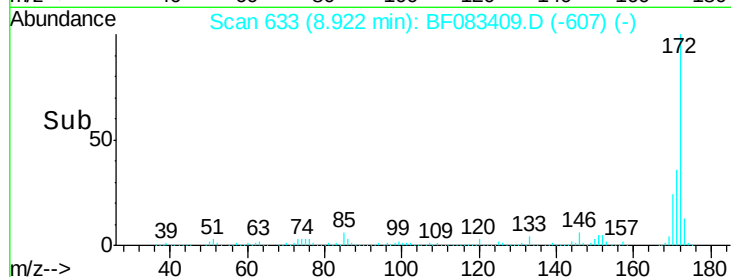
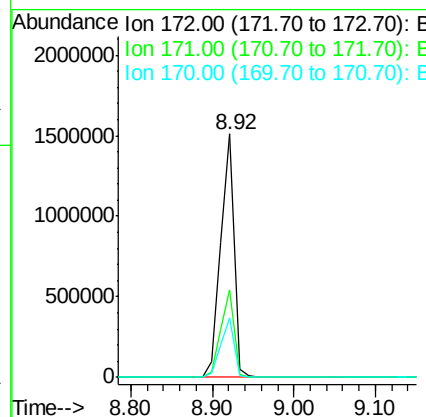
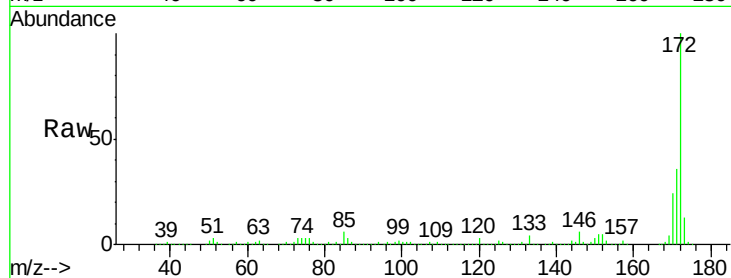




#44  
2-Fluorobiphenyl  
Concen: 37.24 ng  
RT: 8.92 min Scan# 633  
Delta R.T. -0.00 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

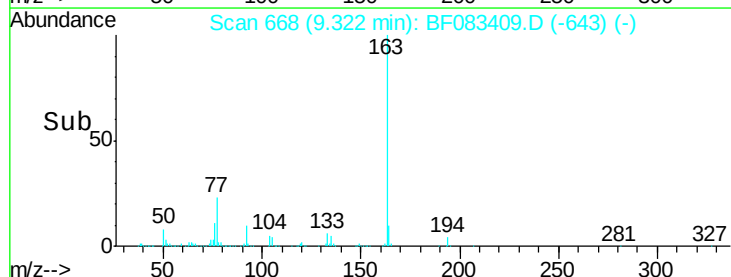
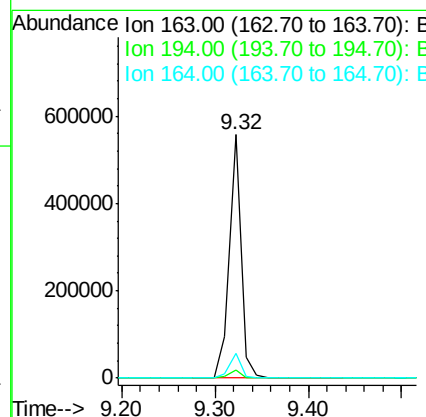
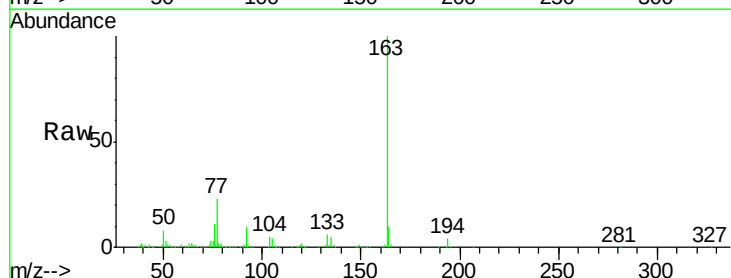
Instrument :  
BNA\_F  
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S-E.TRANS.3

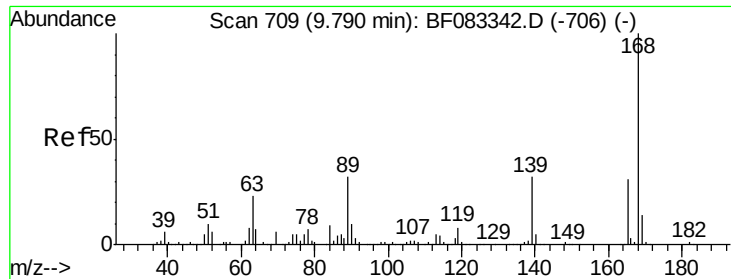
Tot Ion:172 Resp: 1734466  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.4 44.0  
170 24.5 20.4 30.6



#49  
Dimethylphthalate  
Concen: 9.07 ng  
RT: 9.32 min Scan# 668  
Delta R.T. -0.01 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

Tgt Ion:163 Resp: 489303  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.7 4.1  
164 10.2 8.8 13.2

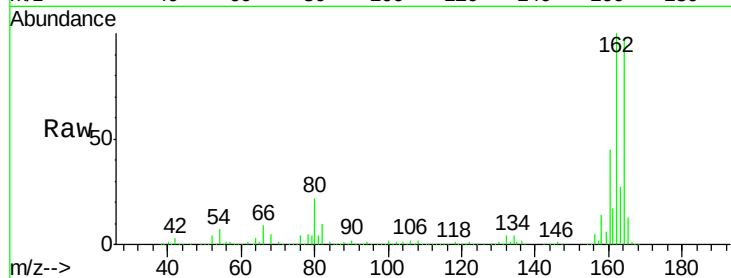




#56  
 2,4-Dinitrotoluene  
 Concen: 5.91 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. -0.21 min  
 Lab File: BF083409.D  
 Acq: 2 Dec 2015 9:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-E.TRANS.3

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 165   | Resp: | 86374  |
| Ion      | Ratio | Lower | Upper  |
| 165      | 100   |       |        |
| 63       | 1.6   | 65.4  | 98.0#  |
| 89       | 1.6   | 81.2  | 121.8# |
| 182      | 0.0   | 1.8   | 2.8#   |

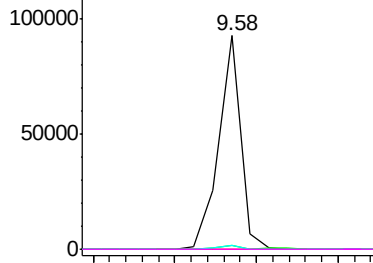


Abundance Ion 165.00 (164.70 to 165.70): E

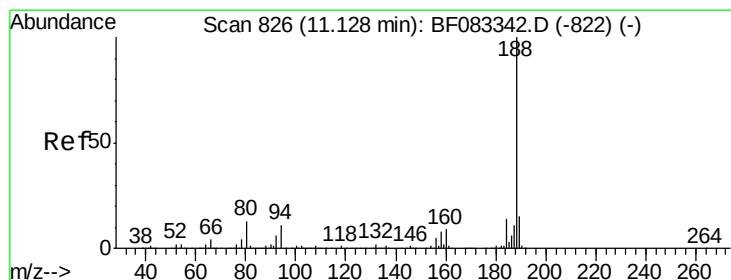
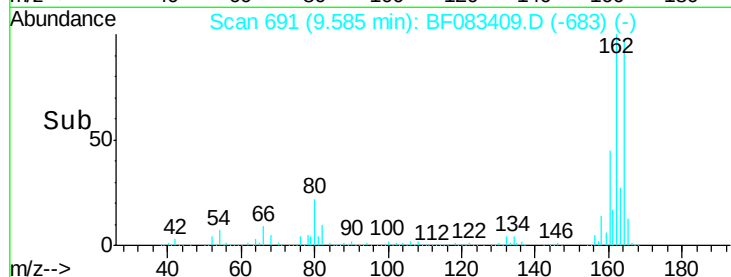
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

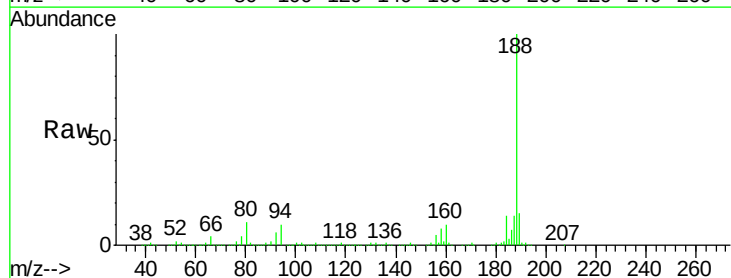


Time--> 9.50 9.55 9.60 9.65



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.13 min Scan# 826  
 Delta R.T. -0.00 min  
 Lab File: BF083409.D  
 Acq: 2 Dec 2015 9:49

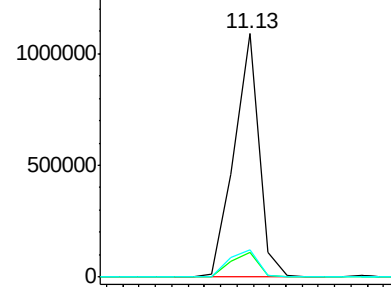
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 188   | Resp: | 1155617 |
| Ion      | Ratio | Lower | Upper   |
| 188      | 100   |       |         |
| 94       | 9.9   | 8.7   | 13.1    |
| 80       | 11.2  | 10.3  | 15.5    |



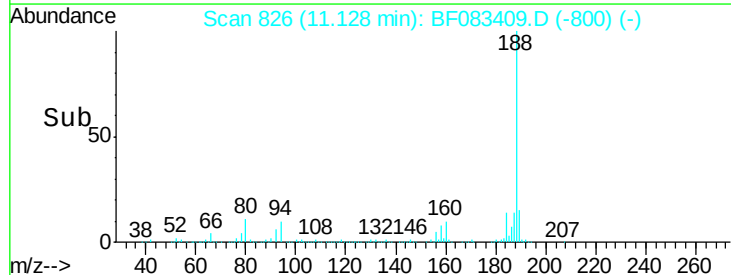
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

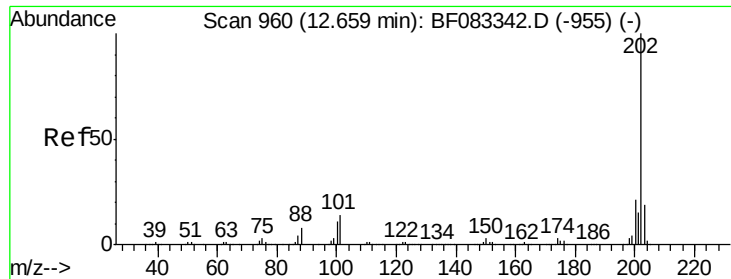
Ion 80.00 (79.70 to 80.70): BF0



Time--> 11.05 11.10 11.15 11.20







#74

Fluoranthene

Concen: 2.54 ng

RT: 12.66 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

BNA\_F

ClientSampleId :

S-E.TRANS.3

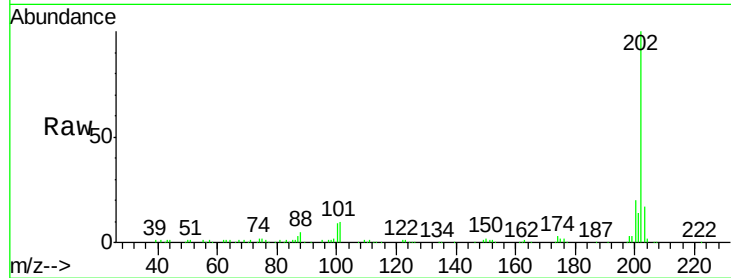
Tot Ion:202 Resp: 180051

Ion Ratio Lower Upper

202 100

101 10.4 0.0 34.5

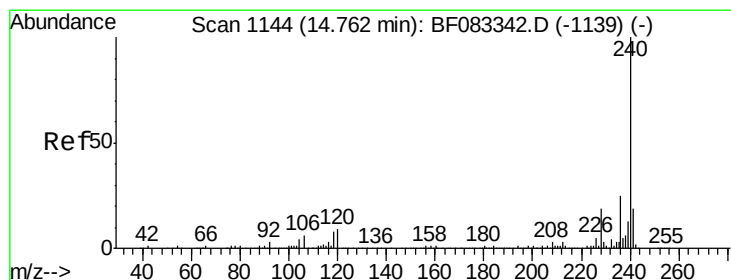
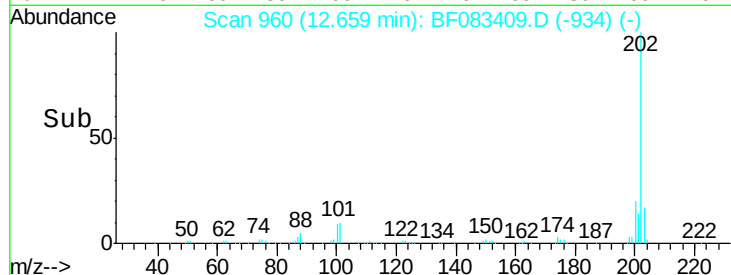
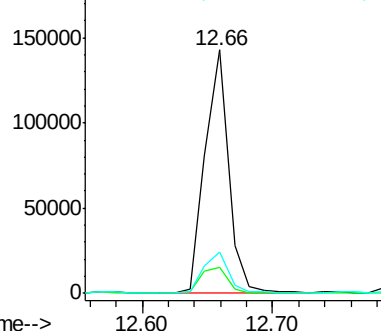
203 17.1 0.0 38.7



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: 14.75 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

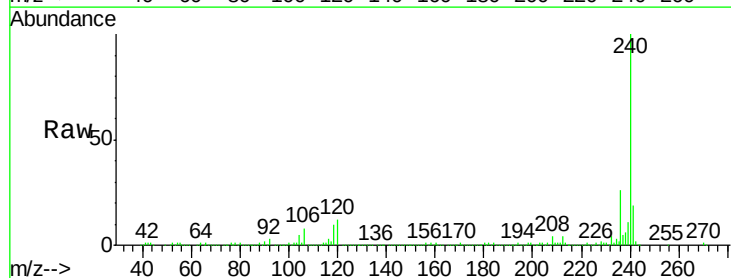
Tgt Ion:240 Resp: 779596

Ion Ratio Lower Upper

240 100

120 11.7 6.9 10.3#

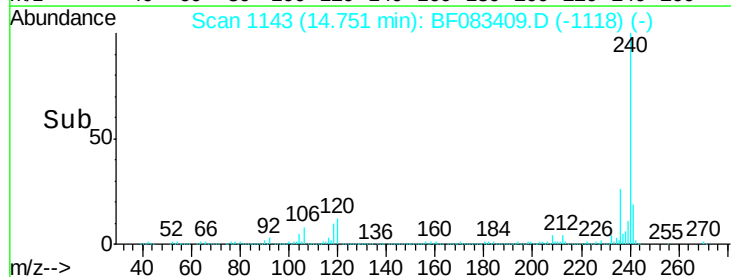
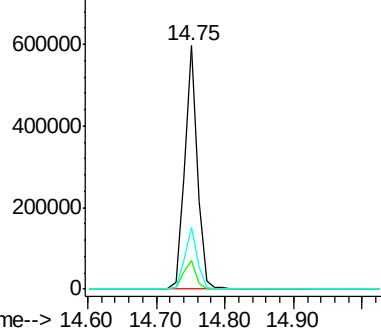
236 25.6 19.8 29.6

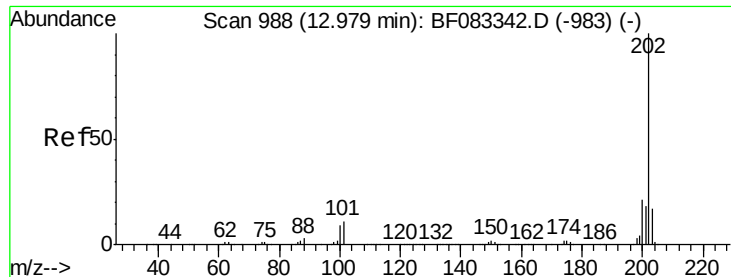


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 3.13 ng

RT: 12.97 min Scan# 987

Delta R.T. -0.01 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

BNA\_F

ClientSampleId :

S-E.TRANS.3

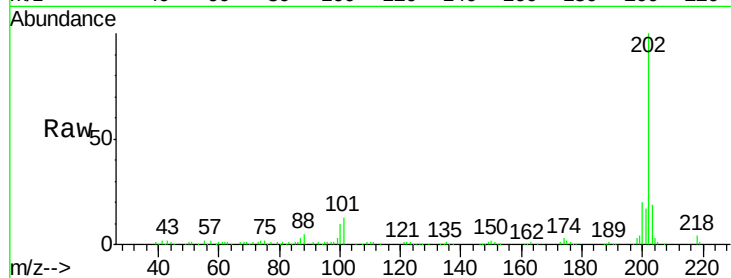
Tot Ion:202 Resp: 170411

Ion Ratio Lower Upper

202 100

200 20.2 16.9 25.3

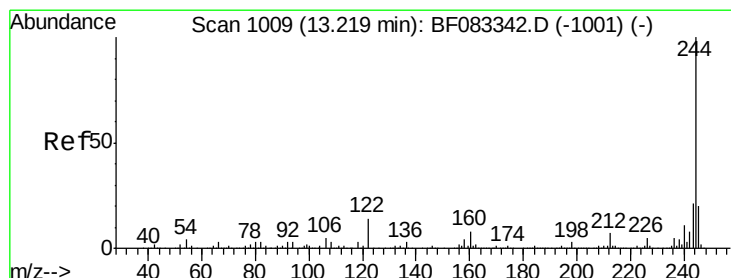
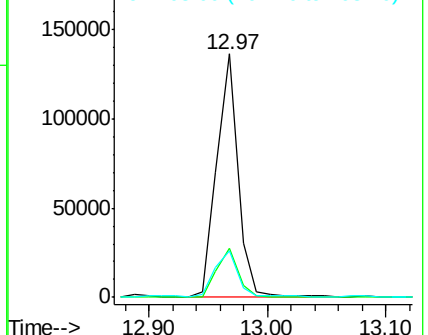
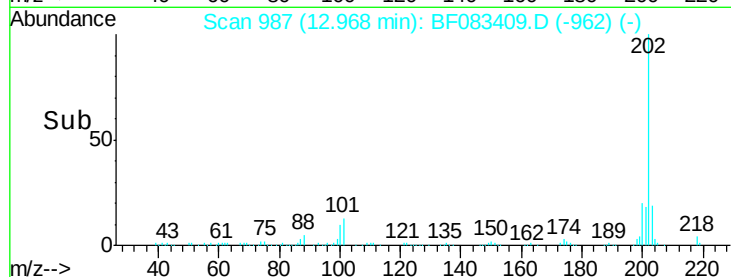
203 19.4 13.9 20.9



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: 38.92 ng

RT: 13.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

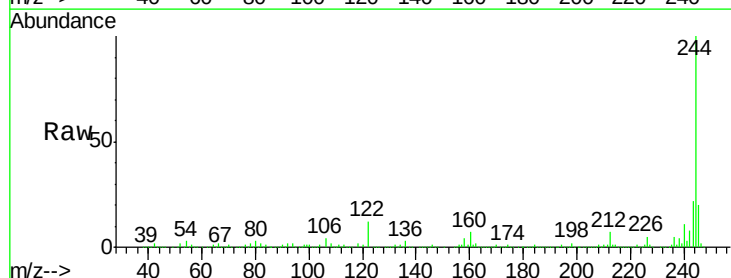
Tgt Ion:244 Resp: 1272164

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

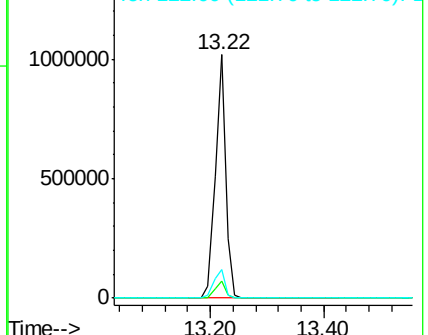
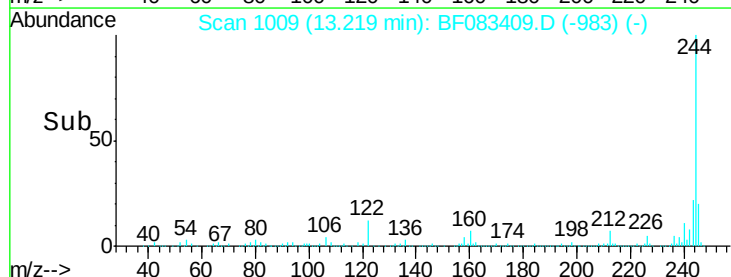
122 11.9 11.0 16.4

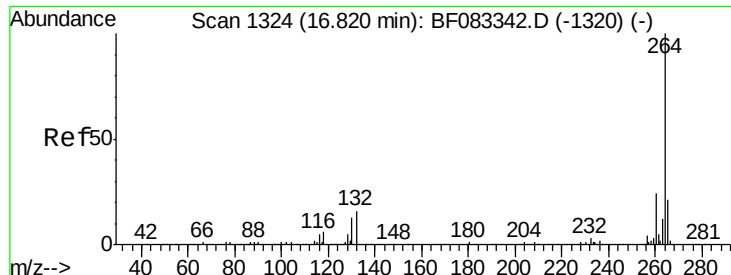


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



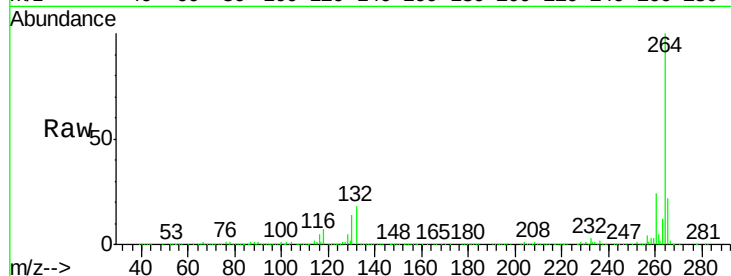


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 16.82 min Scan# 1324  
Delta R.T. -0.00 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

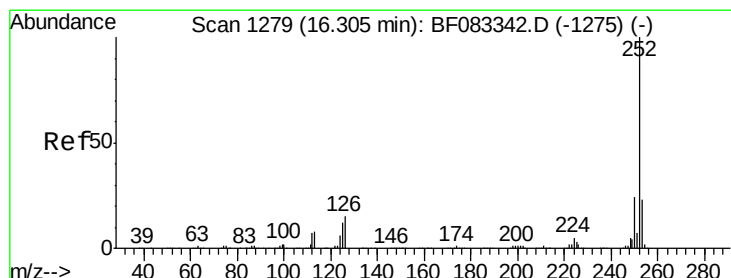
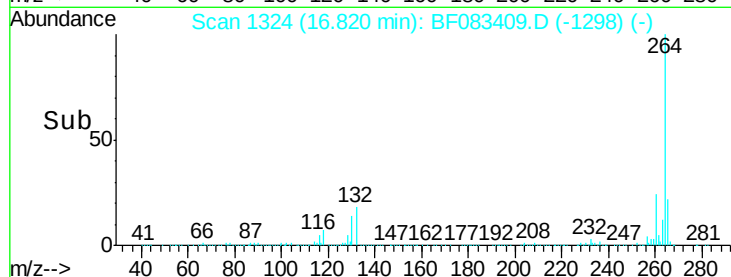
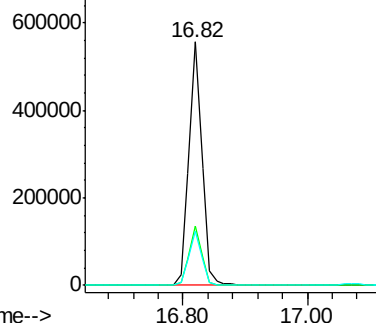
Instrument :  
BNA\_F  
ClientSampleId :  
S-E.TRANS.3

Tot Ion:264 Resp: 798623  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 19.0  | 28.4  |
| 265 | 22.1  | 16.8  | 25.2  |



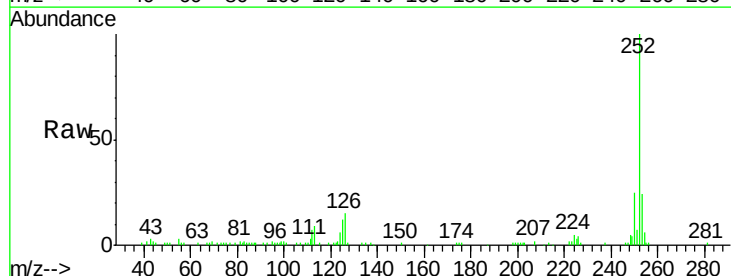
Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



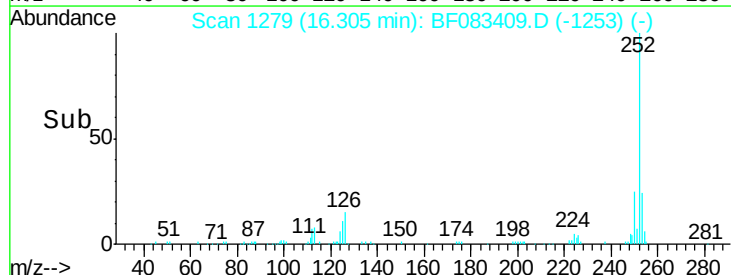
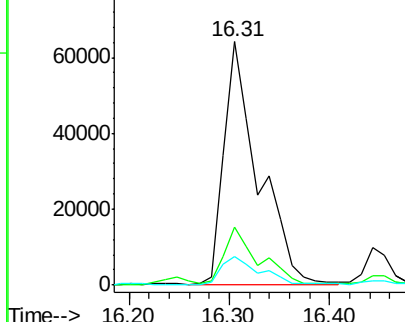
#87  
Benzo(b)fluoranthene  
Concen: 3.01 ng  
RT: 16.31 min Scan# 1279  
Delta R.T. -0.00 min  
Lab File: BF083409.D  
Acq: 2 Dec 2015 9:49

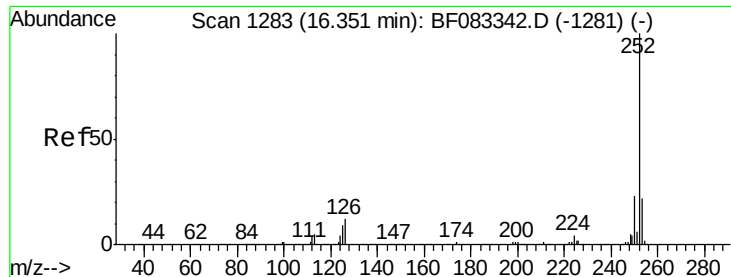
Tgt Ion:252 Resp: 154093  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.9  | 18.4  | 27.6  |
| 125 | 11.8  | 9.6   | 14.4  |



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: 3.18 ng

RT: 16.31 min Scan# 1279

Delta R.T. -0.05 min

Lab File: BF083409.D

Acq: 2 Dec 2015 9:49

Instrument :

BNA\_F

ClientSampleId :

S-E.TRANS.3

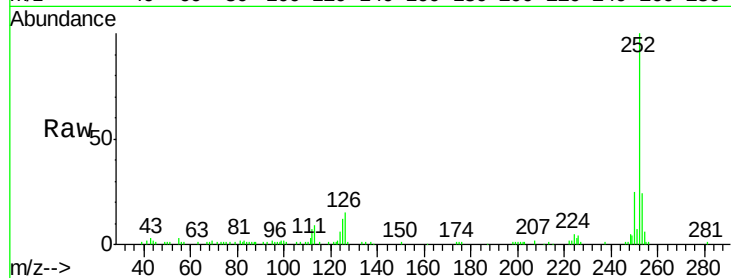
Tot Ion:252 Resp: 154093

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.0

125 11.8 7.5 11.3#



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

