

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\  
 Data File : BF084457.D  
 Acq On : 13 Jan 2016 22:32  
 Operator : SJ/UM  
 Sample : H1083-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-15-010516

Quant Time: Jan 14 15:19:55 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 14 14:15:52 2016  
 Response via : Initial Calibration

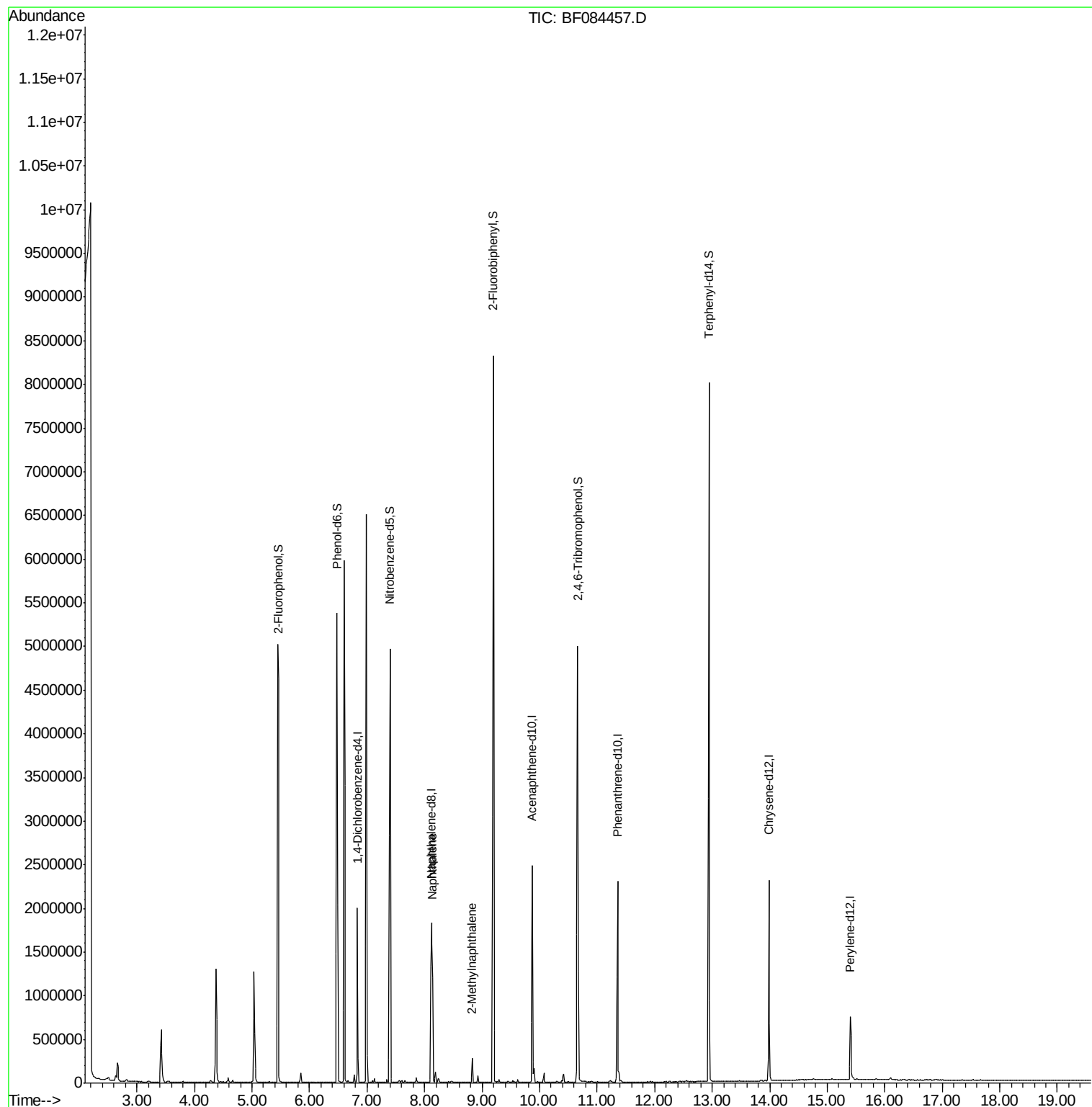
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 261223   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.12  | 136  | 1085056  | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.87  | 164  | 483283   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.36 | 188  | 962541   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.99 | 240  | 789269   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.40 | 264  | 309524   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 2033319  | 125.90 | ng    | 0.02     |
| 7) Phenol-d6                | 6.48  | 99   | 2193314  | 108.13 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 1859327  | 95.37  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 699227   | 143.31 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 2591393  | 95.08  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.95 | 244  | 2638313  | 74.62  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.13  | 128  | 956485   | 19.43  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.83  | 142  | 71401    | 2.02   | ng    | 99       |

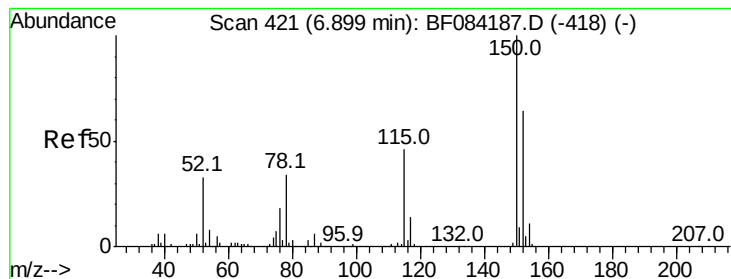
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\  
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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-15-010516

Quant Time: Jan 14 15:19:55 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 14 14:15:52 2016  
Response via : Initial Calibration



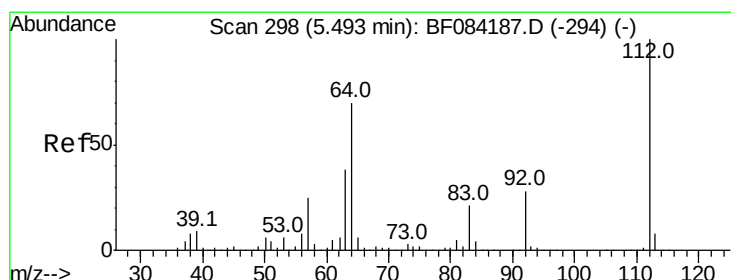
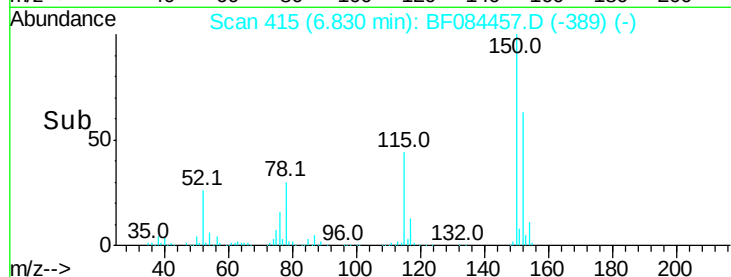
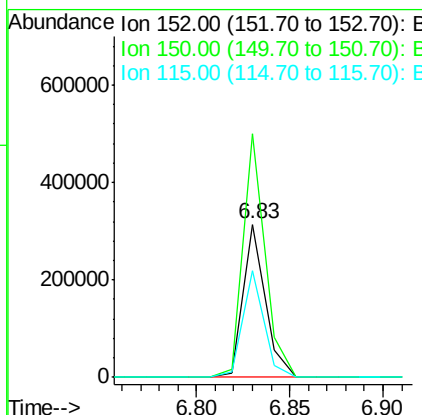
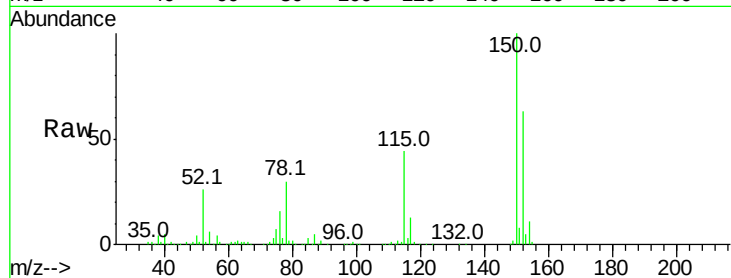


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.83 min Scan# 415  
Delta R.T. 0.00 min  
Lab File: BF084457.D  
Acq: 13 Jan 2016 22:32

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-15-010516

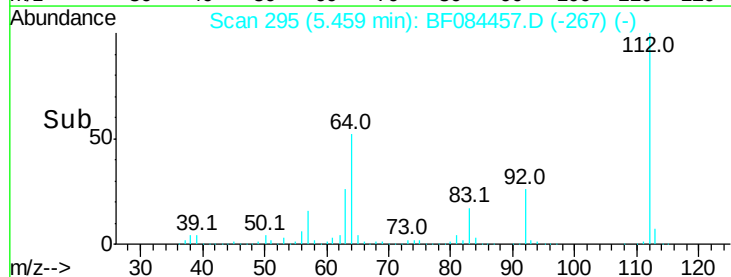
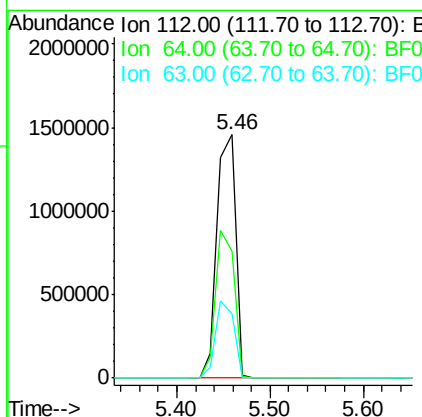
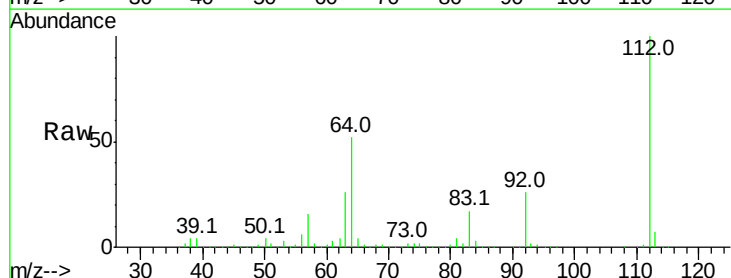
Tot Ion:152 Resp: 261223  
Ion Ratio Lower Upper  
152 100  
150 158.8 123.0 184.4  
115 69.4 51.4 77.2

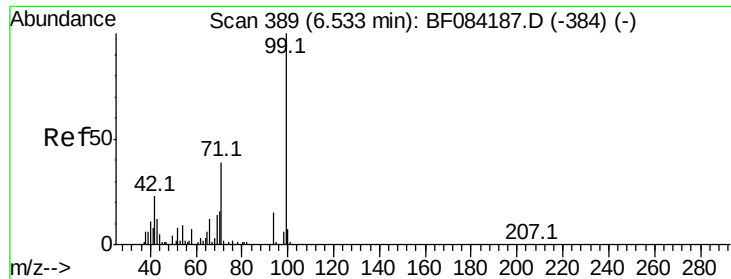


#5

2-Fluorophenol  
Concen: 125.90 ng  
RT: 5.46 min Scan# 295  
Delta R.T. 0.02 min  
Lab File: BF084457.D  
Acq: 13 Jan 2016 22:32

Tgt Ion:112 Resp: 2033319  
Ion Ratio Lower Upper  
112 100  
64 52.5 36.6 55.0  
63 26.5 19.4 29.0





#7

Phenol-d6

Concen: 108.13 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.00 min

Lab File: BF084457.D

Acq: 13 Jan 2016 22:32

Instrument :

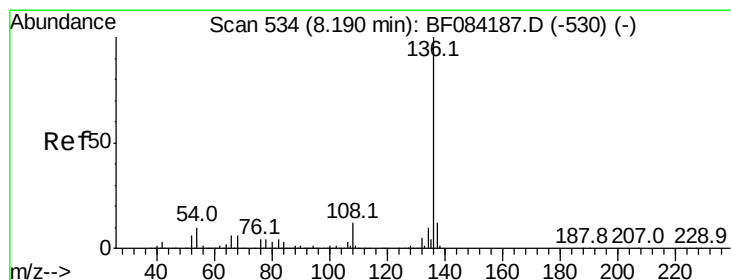
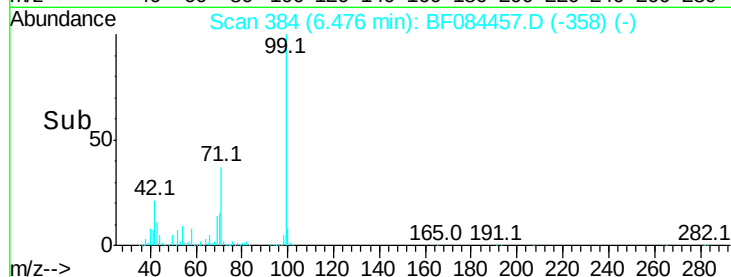
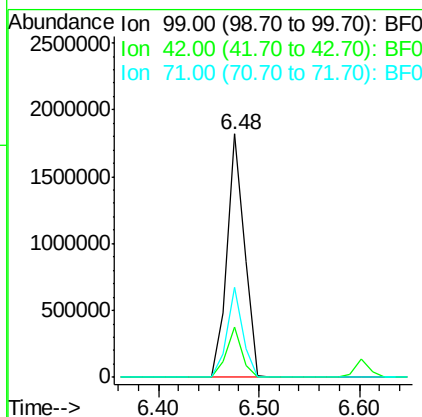
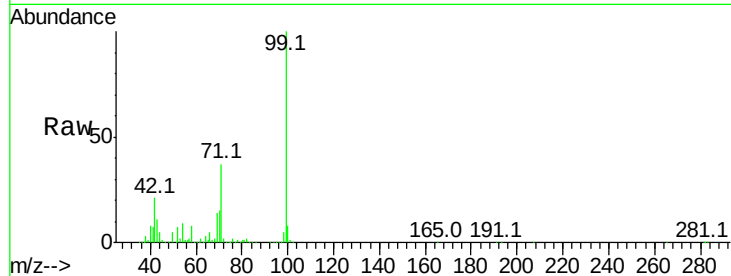
BNA\_F

ClientSampleId :

HSR-WC-15-010516

Tot Ion: 99 Resp: 2193314

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.7  | 12.8  | 19.2# |
| 71  | 36.8  | 30.9  | 46.3  |



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

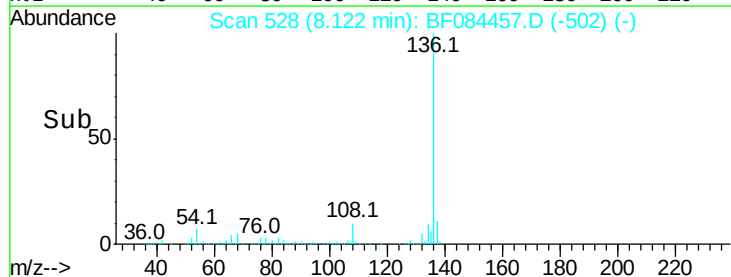
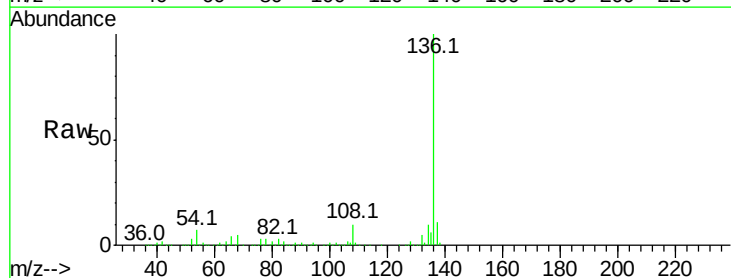
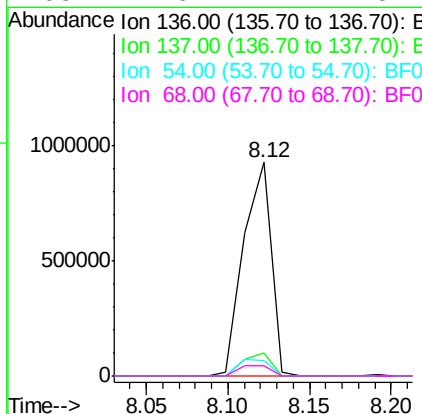
Delta R.T. 0.00 min

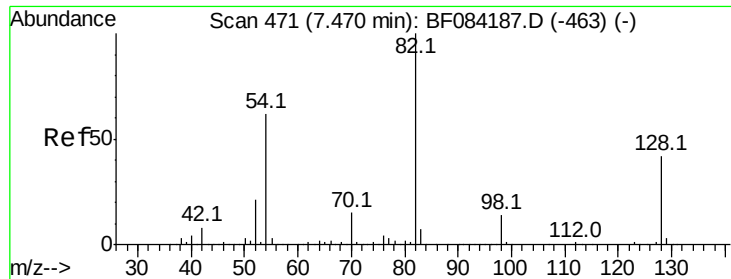
Lab File: BF084457.D

Acq: 13 Jan 2016 22:32

Tgt Ion: 136 Resp: 1085056

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.7   | 13.1  |
| 54  | 6.9   | 5.8   | 8.8   |
| 68  | 4.6   | 4.2   | 6.2   |



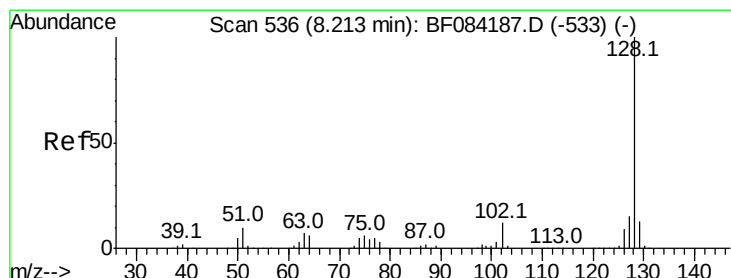
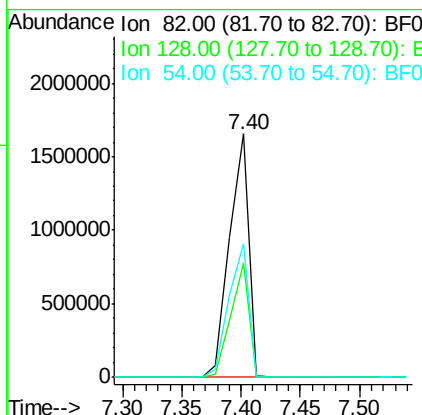
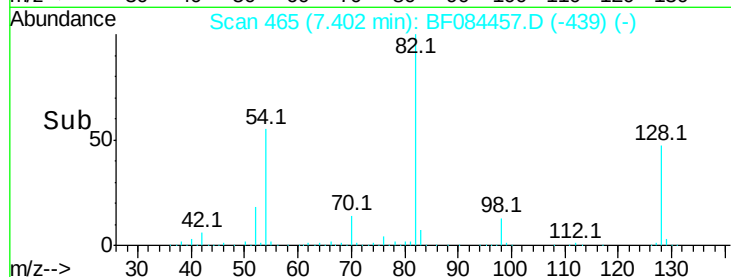
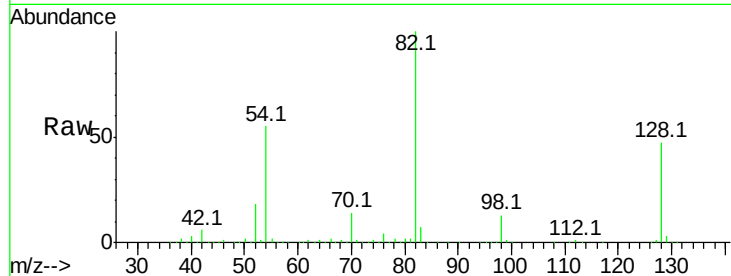


#23  
 Nitrobenzene-d5  
 Concen: 95.37 ng  
 RT: 7.40 min Scan# 465  
 Delta R.T. 0.00 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-15-010516

Tot Ion: 82 Resp: 1859327  

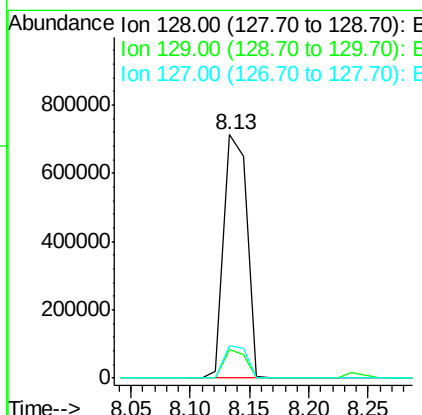
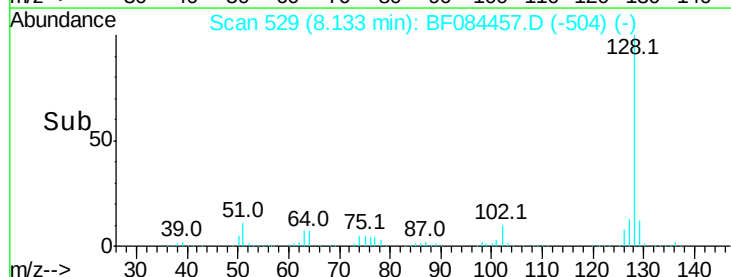
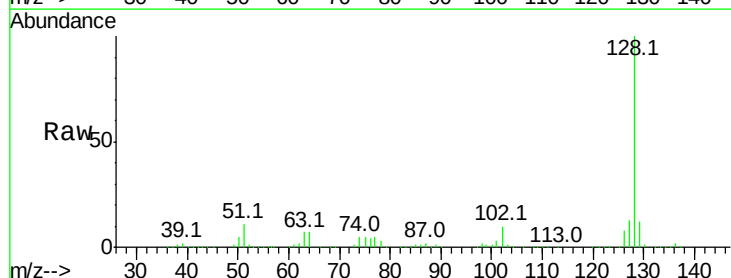
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 46.8  | 34.6  | 51.8  |
| 54  | 54.9  | 38.4  | 57.6  |

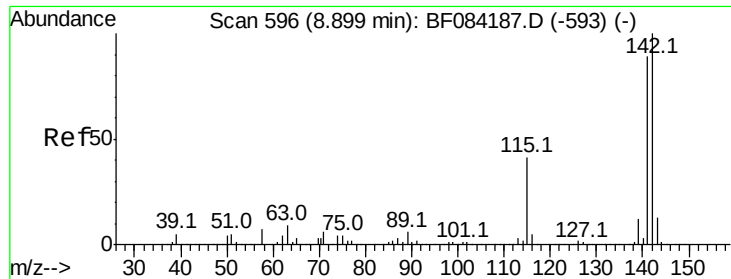


#31  
 Naphthalene  
 Concen: 19.43 ng  
 RT: 8.13 min Scan# 529  
 Delta R.T. -0.01 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Tgt Ion: 128 Resp: 956485  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.8  | 9.1   | 13.7  |
| 127 | 13.5  | 11.1  | 16.7  |

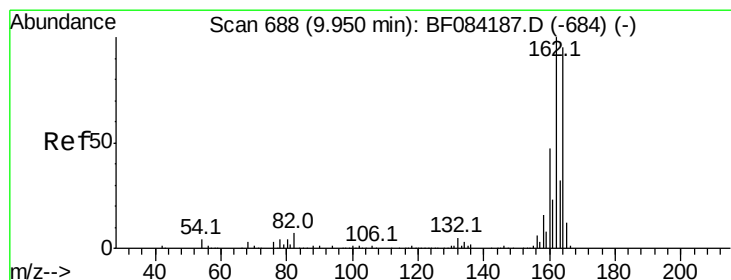
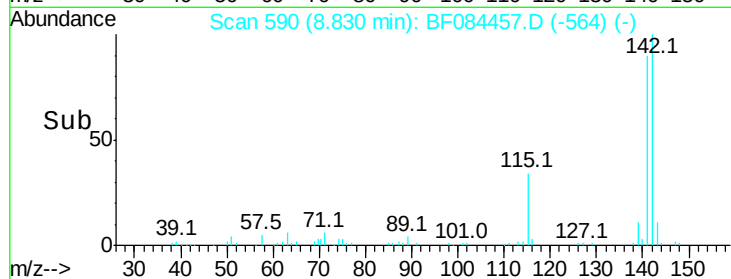
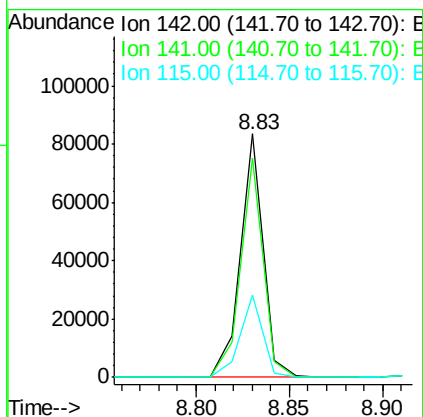
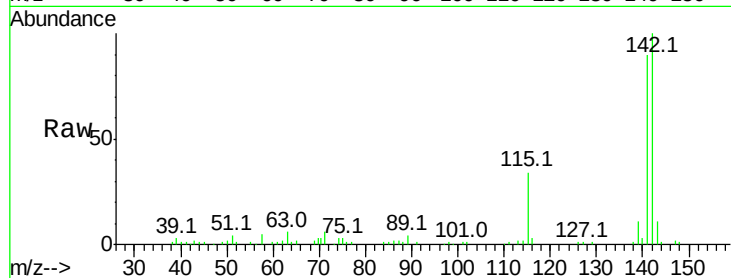




#37  
 2-Methylnaphthalene  
 Concen: 2.02 ng  
 RT: 8.83 min Scan# 590  
 Delta R.T. 0.00 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

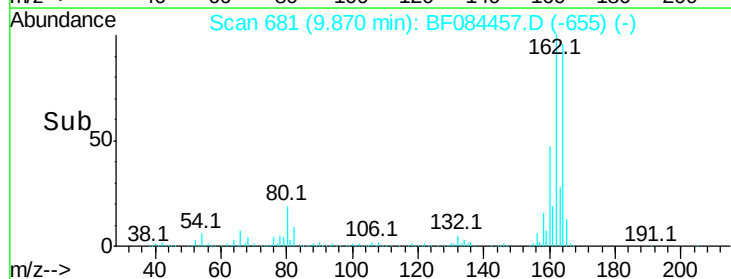
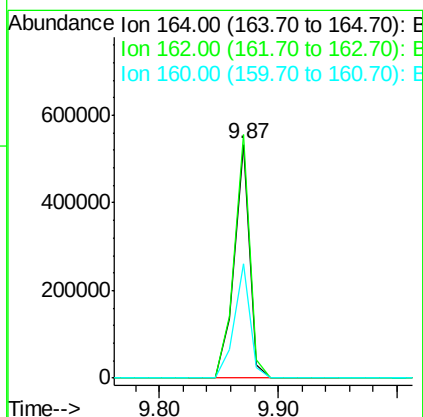
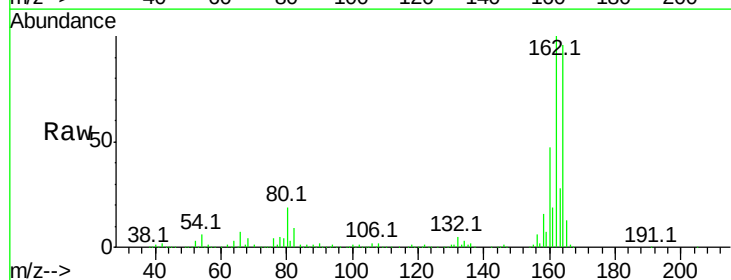
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-15-010516

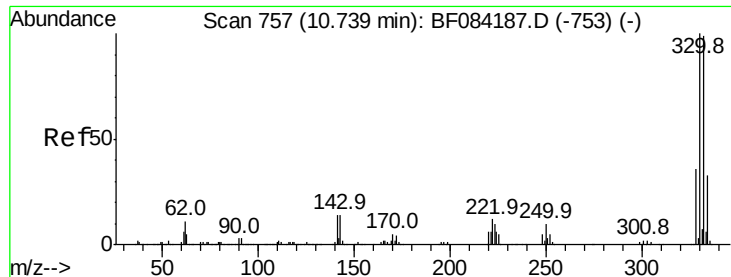
Tot Ion:142 Resp: 71401  
 Ion Ratio Lower Upper  
 142 100  
 141 90.1 72.4 108.6  
 115 33.6 27.9 41.9



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 681  
 Delta R.T. 0.00 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Tgt Ion:164 Resp: 483283  
 Ion Ratio Lower Upper  
 164 100  
 162 104.1 85.1 127.7  
 160 48.8 37.5 56.3

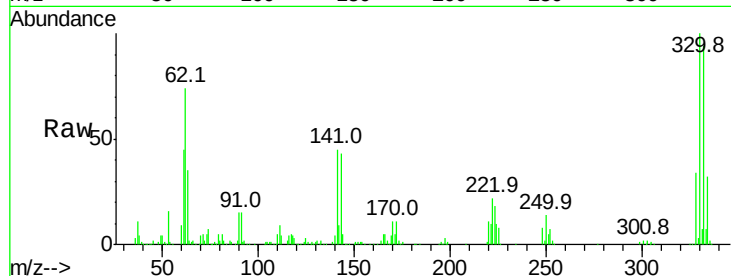




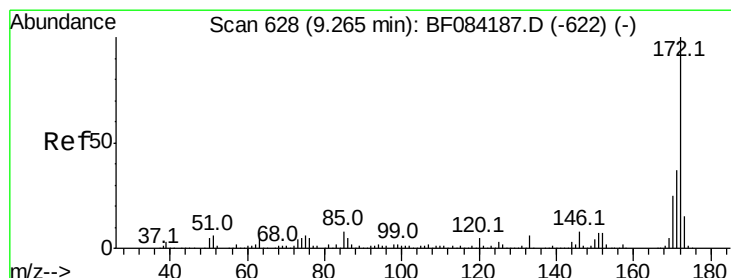
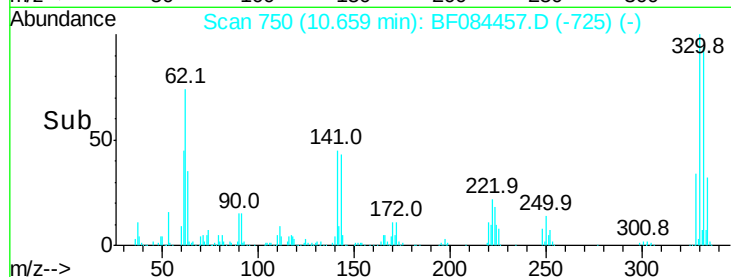
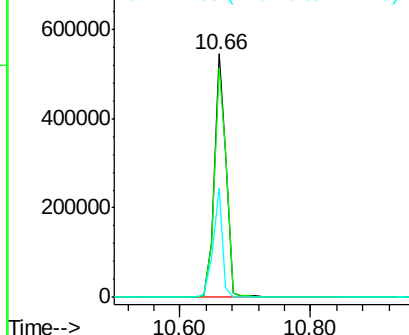
#41  
 2,4,6-Tribromophenol  
 Concen: 143.31 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.01 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-15-010516

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.6  | 114.8 |
| 141     | 35.6  | 27.8  | 41.6  |

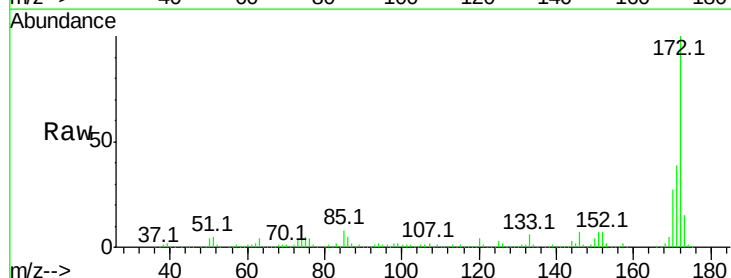


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

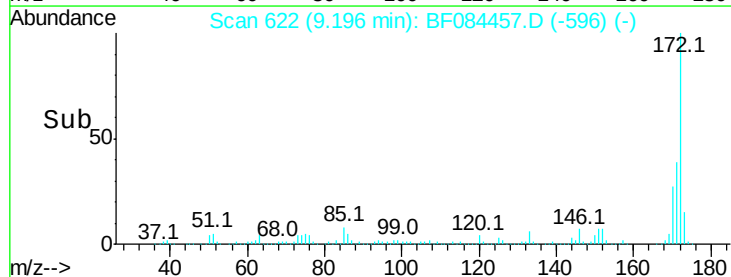
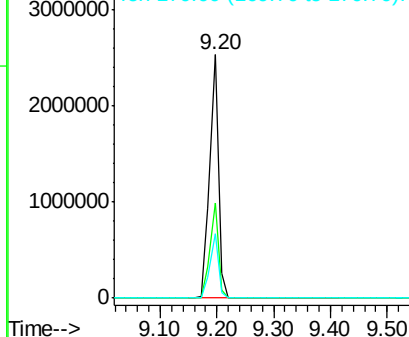


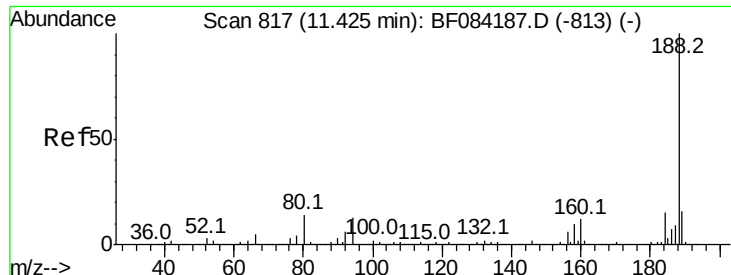
#44  
 2-Fluorobiphenyl  
 Concen: 95.08 ng  
 RT: 9.20 min Scan# 622  
 Delta R.T. 0.00 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.2  | 28.9  | 43.3  |
| 170     | 26.6  | 18.6  | 27.8  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

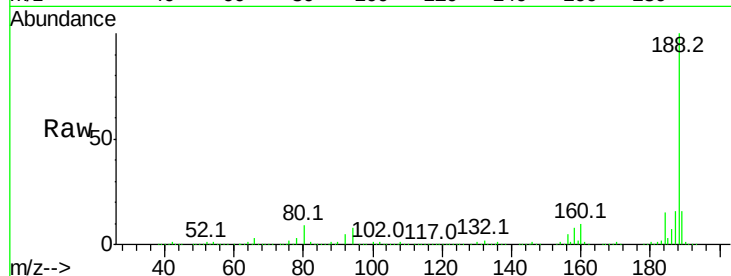




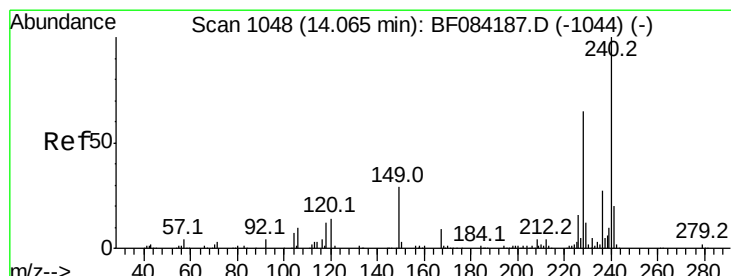
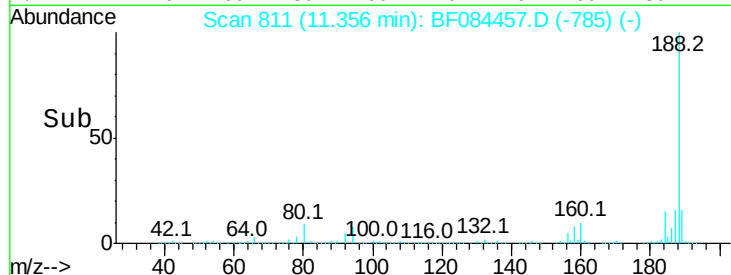
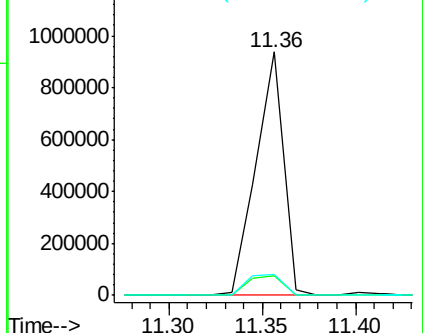
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: BF084457.D  
Acq: 13 Jan 2016 22:32

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-15-010516

Tot Ion:188 Resp: 962541  
Ion Ratio Lower Upper  
188 100  
94 8.2 9.0 13.4#  
80 8.6 9.6 14.4#

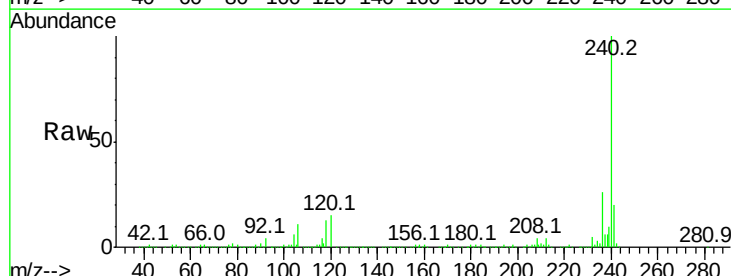


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

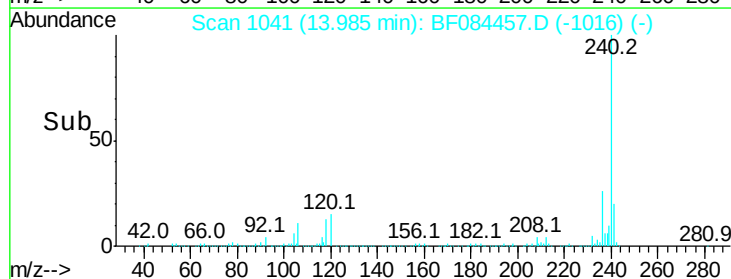
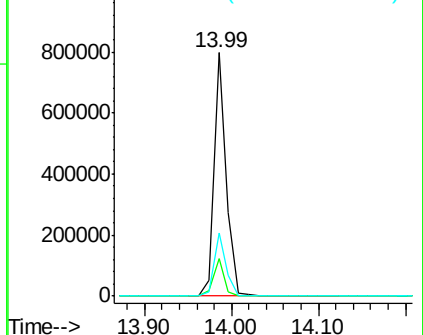


#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BF084457.D  
Acq: 13 Jan 2016 22:32

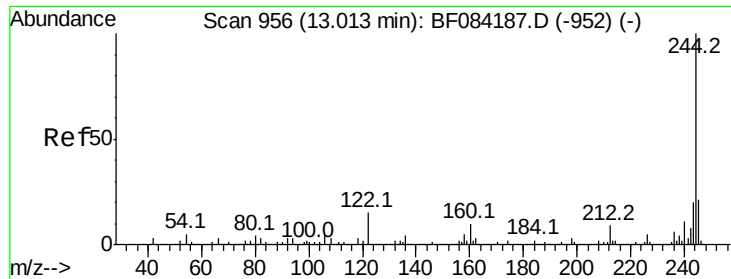
Tgt Ion:240 Resp: 789269  
Ion Ratio Lower Upper  
240 100  
120 15.2 9.5 14.3#  
236 25.9 20.6 31.0



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



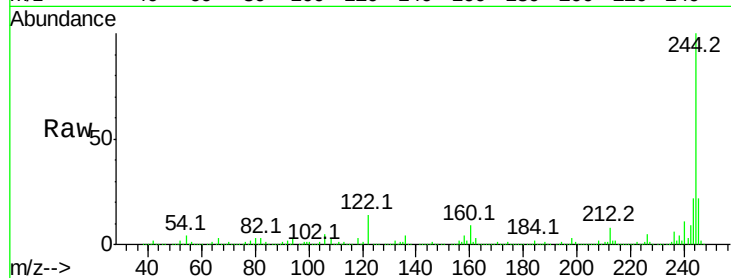




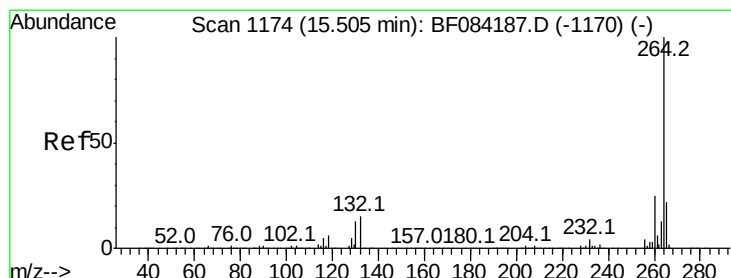
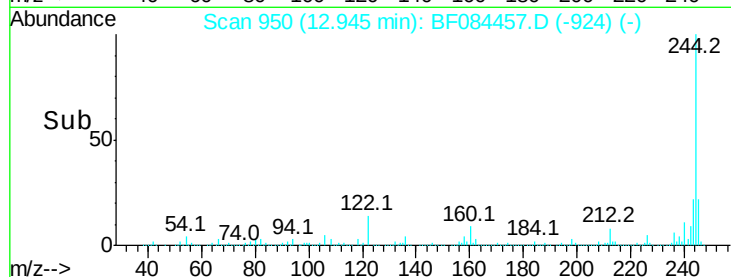
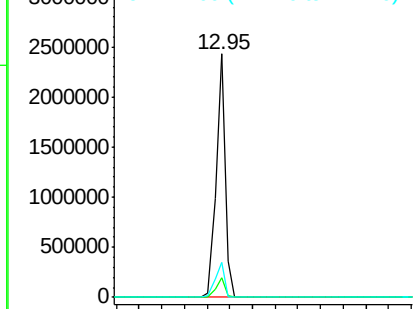
#78  
 Terphenyl-d14  
 Concen: 74.62 ng  
 RT: 12.95 min Scan# 950  
 Delta R.T. 0.00 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-15-010516

Tot Ion:244 Resp: 2638313  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 5.7 8.5  
 122 14.4 7.4 11.0#

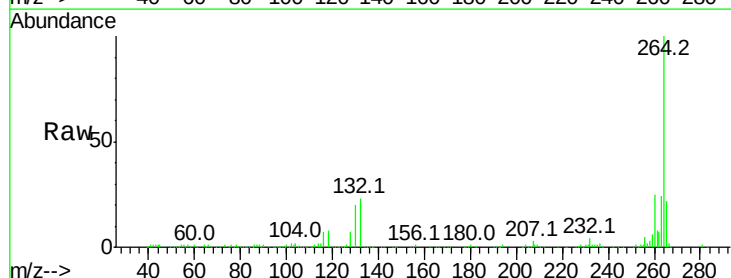


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.40 min Scan# 1165  
 Delta R.T. -0.01 min  
 Lab File: BF084457.D  
 Acq: 13 Jan 2016 22:32

Tgt Ion:264 Resp: 309524  
 Ion Ratio Lower Upper  
 264 100  
 260 25.3 19.4 29.2  
 265 21.7 17.8 26.6



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

