

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011116\  
 Data File : BF084397.D  
 Acq On : 11 Jan 2016 23:49  
 Operator : SJ/UM  
 Sample : H1074-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-13-010516

Quant Time: Jan 12 06:04:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 04 12:22:40 2016  
 Response via : Initial Calibration

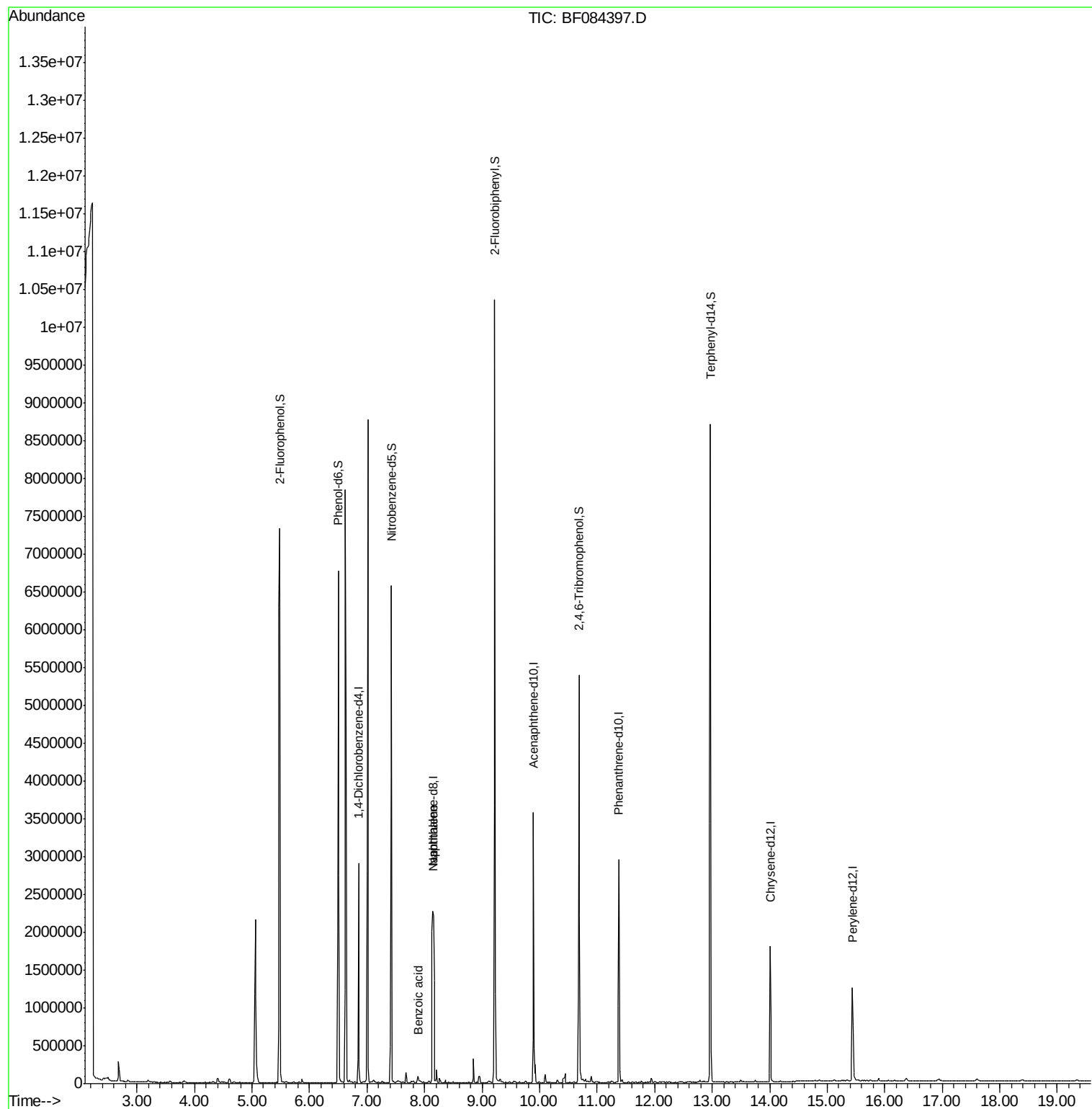
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 369428   | 20.00  | ng    | -0.05     |
| 21) Naphthalene-d8          | 8.14  | 136  | 1447817  | 20.00  | ng    | -0.05     |
| 38) Acenaphthene-d10        | 9.89  | 164  | 662009   | 20.00  | ng    | -0.06     |
| 63) Phenanthrene-d10        | 11.38 | 188  | 1091379  | 20.00  | ng    | -0.05     |
| 75) Chrysene-d12            | 14.01 | 240  | 689351   | 20.00  | ng    | -0.06     |
| 86) Perylene-d12            | 15.44 | 264  | 598463   | 20.00  | ng    | -0.07     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.48  | 112  | 2805416  | 122.83 | ng    | -0.01     |
| 7) Phenol-d6                | 6.50  | 99   | 2907314  | 101.35 | ng    | -0.03     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 2568682  | 98.74  | ng    | -0.05     |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 809791   | 121.16 | ng    | -0.06     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 3302815  | 87.99  | ng    | -0.05     |
| 78) Terphenyl-d14           | 12.97 | 244  | 2669741  | 86.45  | ng    | -0.05     |
| Target Compounds            |       |      |          |        |       |           |
| 31) Naphthalene             | 8.16  | 128  | 1233144  | 18.77  | ng    | Qvalue 98 |
| 32) Benzoic acid            | 7.89  | 122  | 4446     | 6.50   | ng    | # 69      |

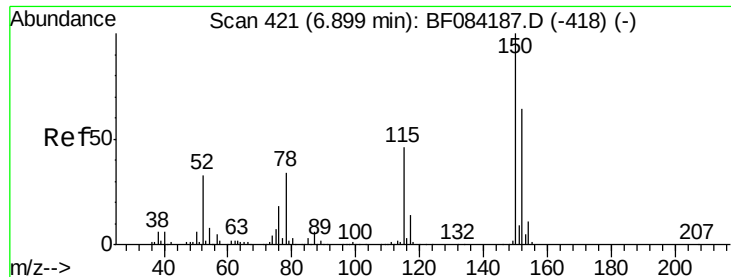
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
ClientSampleId :  
HSR-WC-13-010516

Quant Time: Jan 12 06:04:09 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF123115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 04 12:22:40 2016  
Response via : Initial Calibration



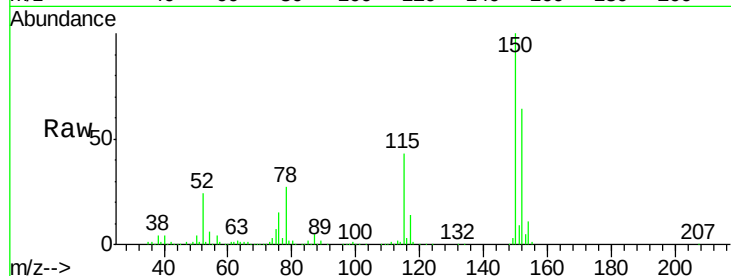


#1

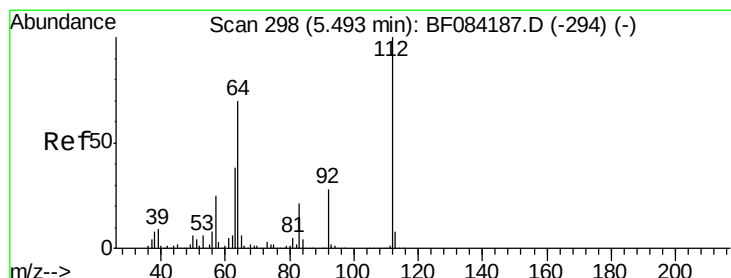
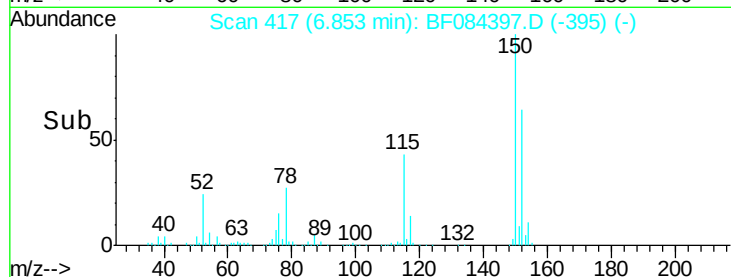
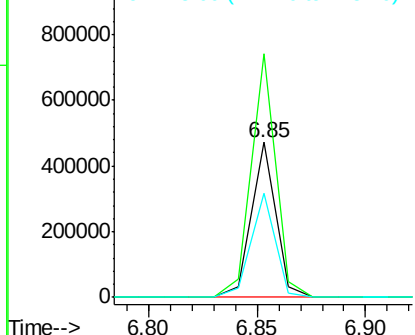
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.85 min Scan# 417  
 Delta R.T. -0.05 min  
 Lab File: BF084397.D  
 Acq: 11 Jan 2016 23:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-13-010516

Tgt Ion:152 Resp: 369428  
 Ion Ratio Lower Upper  
 152 100  
 150 157.1 123.0 184.4  
 115 67.3 51.4 77.2



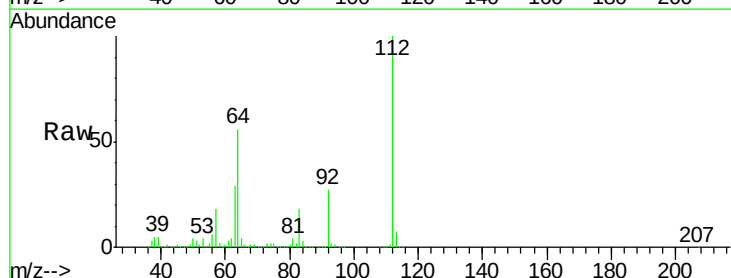
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



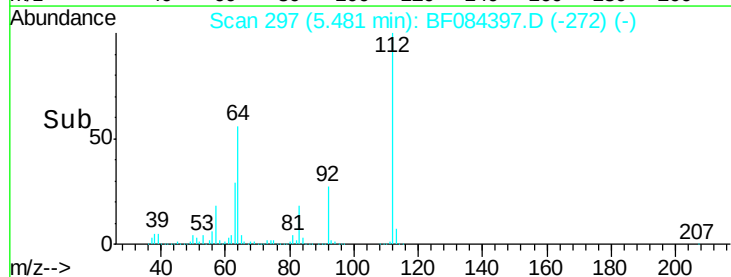
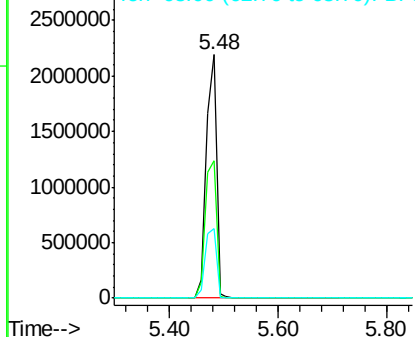
#5

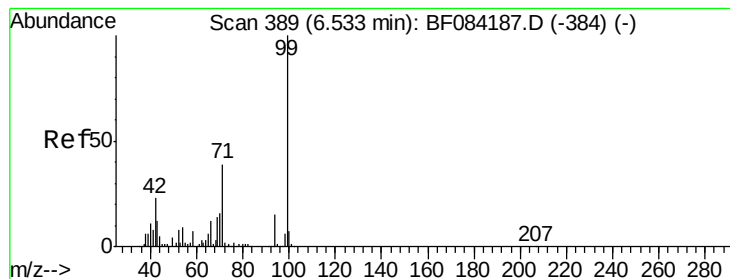
2-Fluorophenol  
 Concen: 122.83 ng  
 RT: 5.48 min Scan# 297  
 Delta R.T. -0.01 min  
 Lab File: BF084397.D  
 Acq: 11 Jan 2016 23:49

Tgt Ion:112 Resp: 2805416  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 36.6 55.0#  
 63 28.5 19.4 29.0



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: 101.35 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.03 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

Instrument :

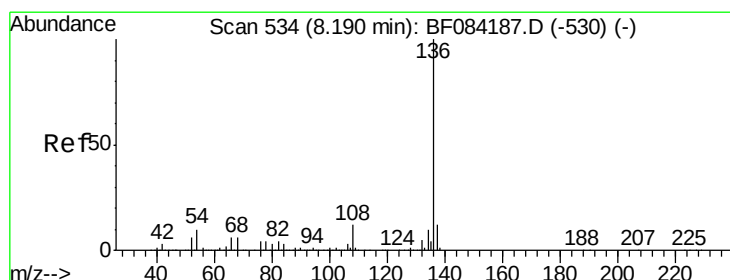
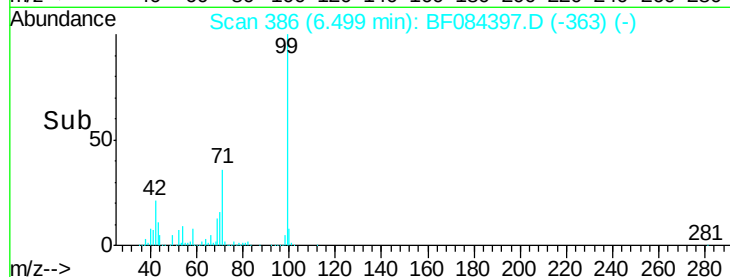
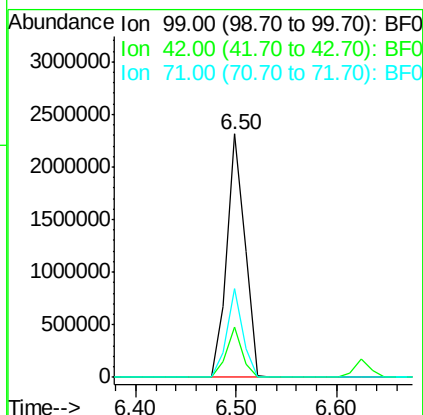
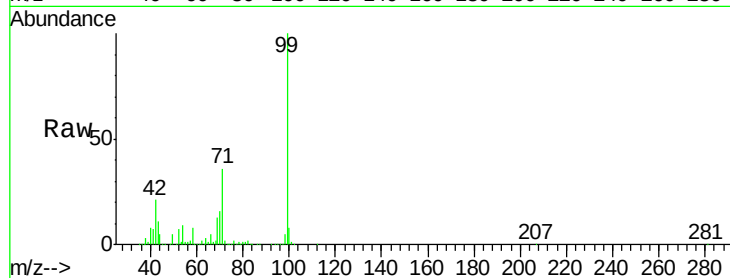
BNA\_F

ClientSampleId :

HSR-WC-13-010516

Tgt Ion: 99 Resp: 2907314

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.6  | 12.8  | 19.2# |
| 71  | 36.2  | 30.9  | 46.3  |



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

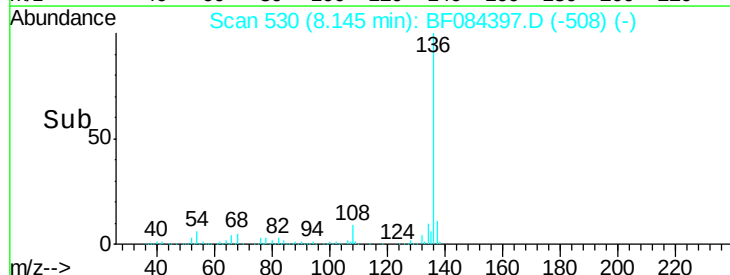
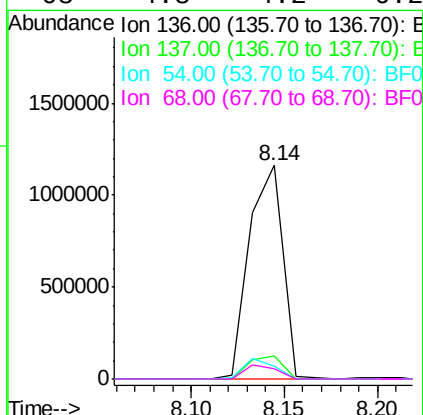
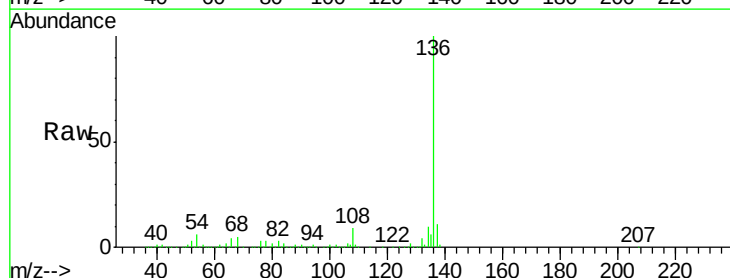
Delta R.T. -0.05 min

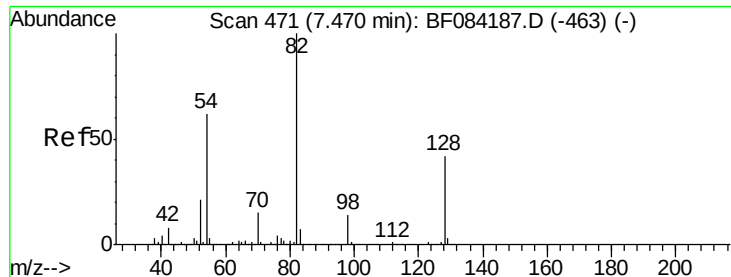
Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

Tgt Ion: 136 Resp: 1447817

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.7   | 13.1  |
| 54  | 6.3   | 5.8   | 8.8   |
| 68  | 4.8   | 4.2   | 6.2   |





#23

Nitrobenzene-d5

Concen: 98.74 ng

RT: 7.42 min Scan# 467

Delta R.T. -0.05 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-13-010516

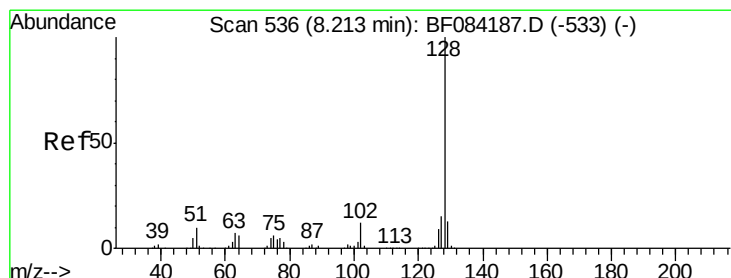
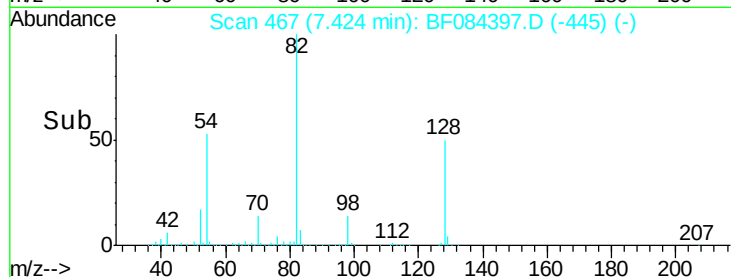
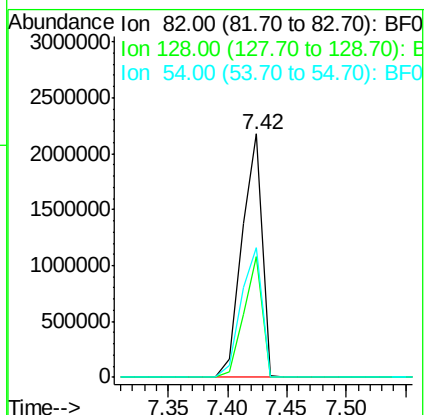
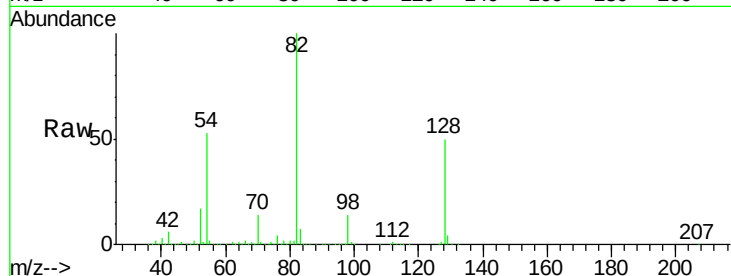
Tgt Ion: 82 Resp: 2568682

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 49.7  | 34.6  | 51.8  |
| 54  | 53.4  | 38.4  | 57.6  |

82 100

128 49.7 34.6 51.8

54 53.4 38.4 57.6



#31

Naphthalene

Concen: 18.77 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.06 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

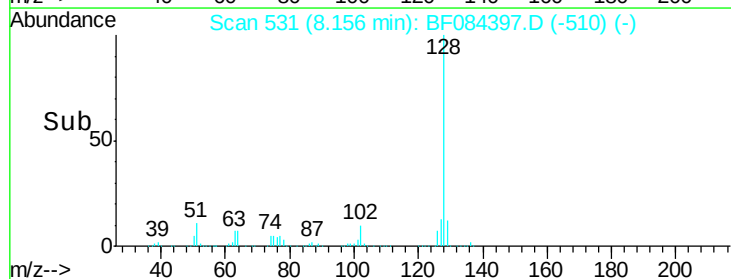
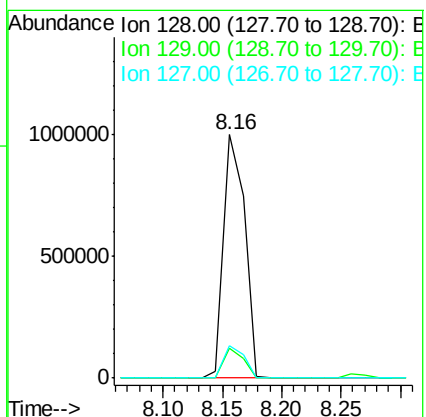
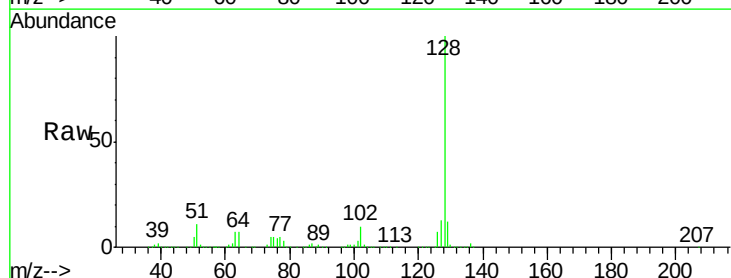
Tgt Ion: 128 Resp: 1233144

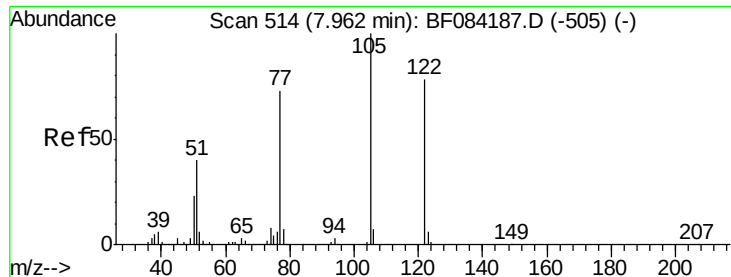
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 12.2  | 9.1   | 13.7  |
| 127 | 13.1  | 11.1  | 16.7  |

128 100

129 12.2 9.1 13.7

127 13.1 11.1 16.7





#32

Benzoic acid

Concen: 6.50 ng

RT: 7.89 min Scan# 508

Delta R.T. -0.07 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-13-010516

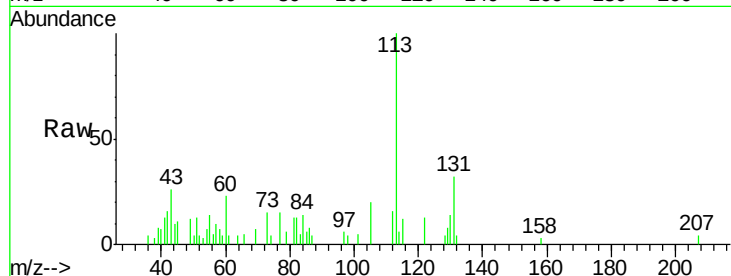
Tgt Ion:122 Resp: 4446

Ion Ratio Lower Upper

122 100

105 153.0 100.3 140.3#

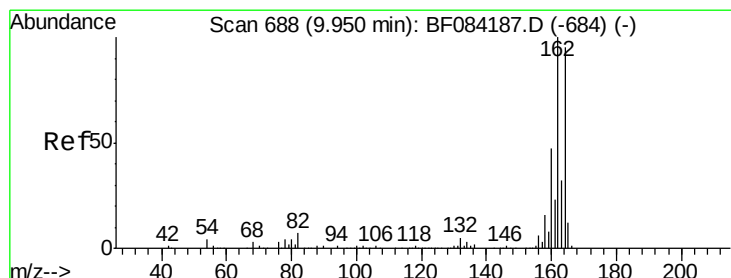
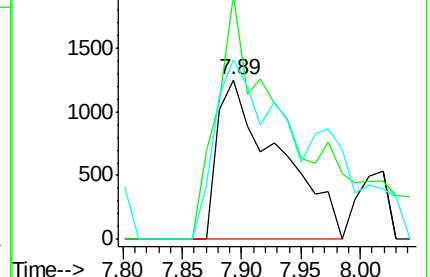
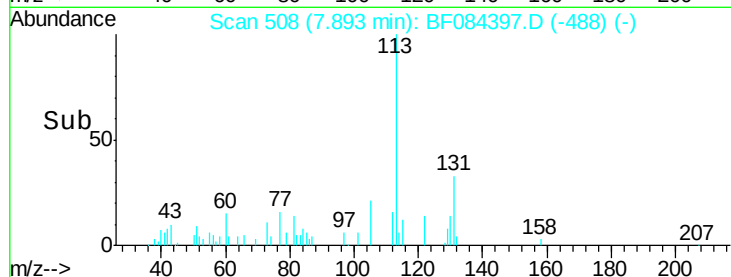
77 112.6 63.5 103.5#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 683

Delta R.T. -0.06 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

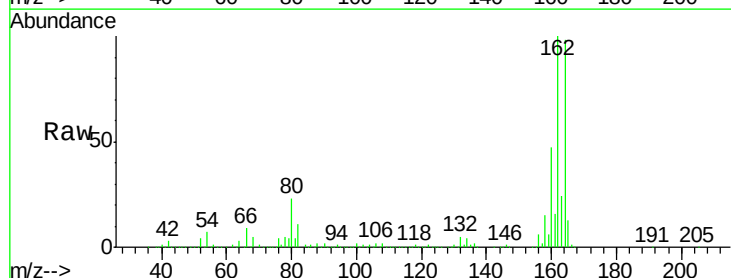
Tgt Ion:164 Resp: 662009

Ion Ratio Lower Upper

164 100

162 102.4 85.1 127.7

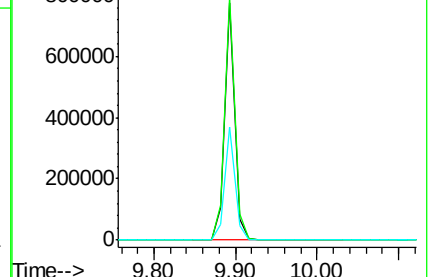
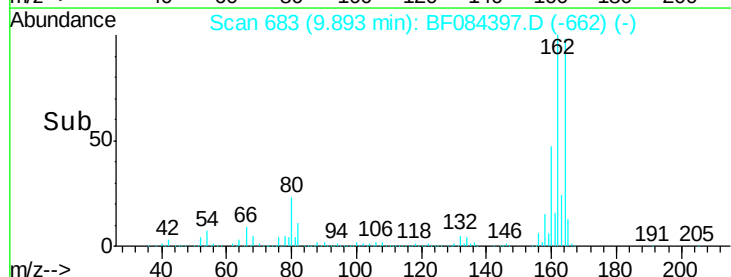
160 47.6 37.5 56.3

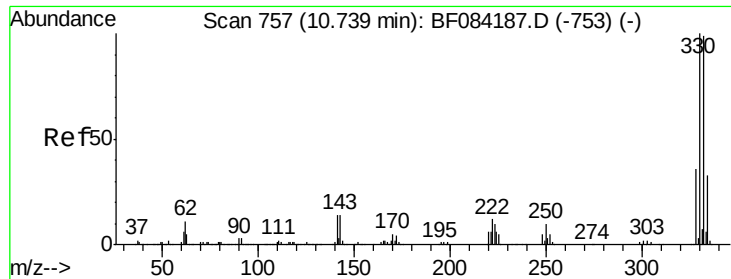


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

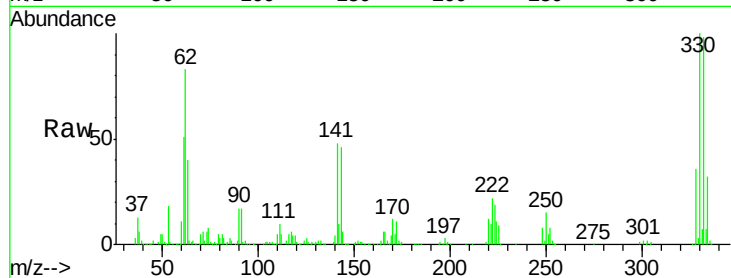




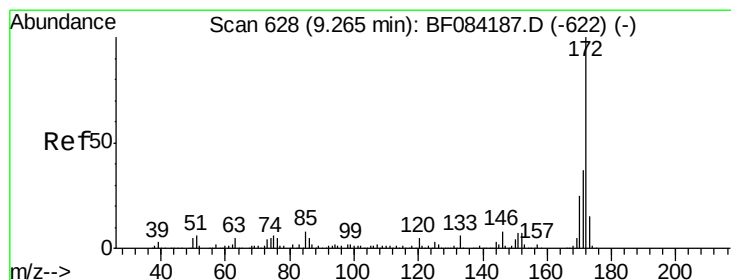
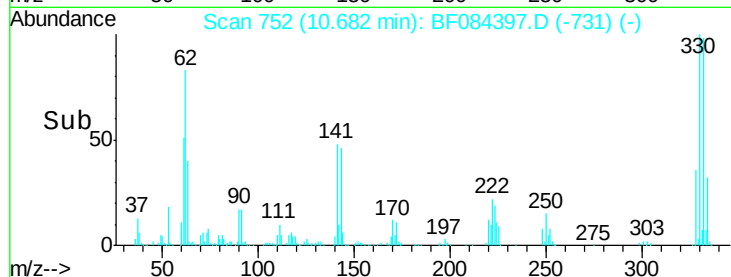
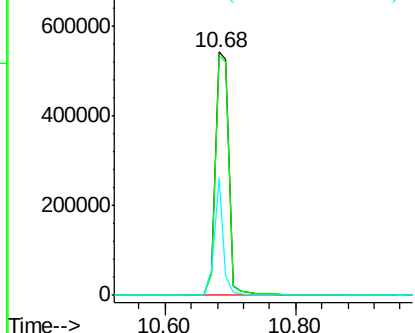
#41  
 2,4,6-Tribromophenol  
 Concen: 121.16 ng  
 RT: 10.68 min Scan# 752  
 Delta R.T. -0.06 min  
 Lab File: BF084397.D  
 Acq: 11 Jan 2016 23:49

Instrument :  
 BNA\_F  
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 HSR-WC-13-010516

Tgt Ion:330 Resp: 809791  
 Ion Ratio Lower Upper  
 330 100  
 332 98.5 76.6 114.8  
 141 32.2 27.8 41.6

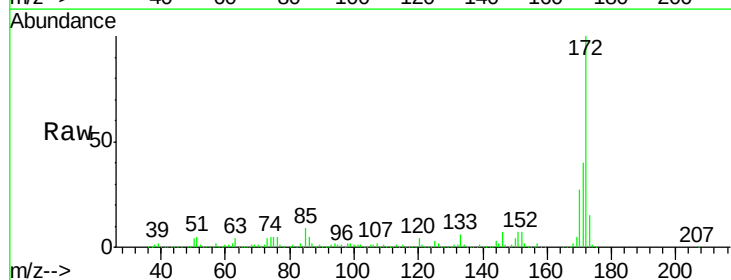


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

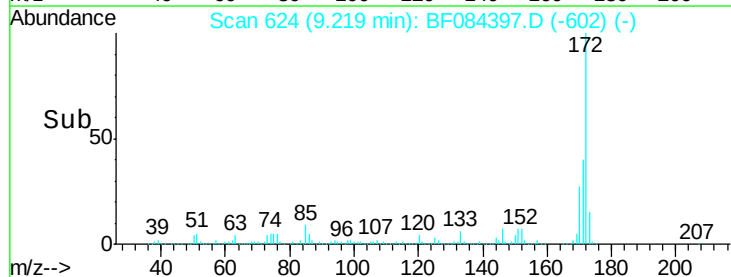
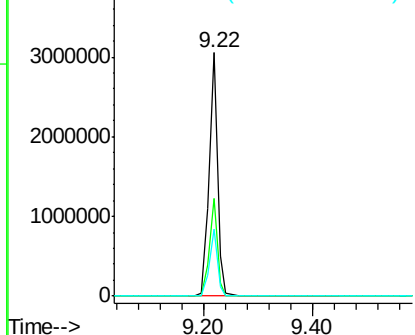


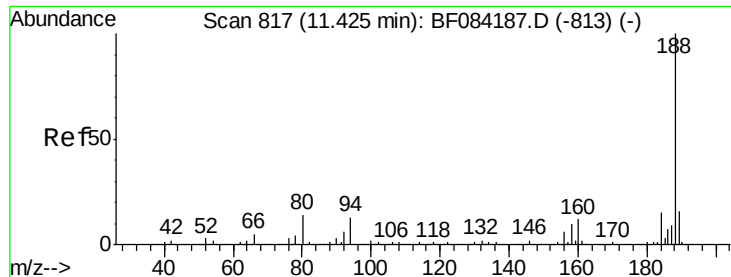
#44  
 2-Fluorobiphenyl  
 Concen: 87.99 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. -0.05 min  
 Lab File: BF084397.D  
 Acq: 11 Jan 2016 23:49

Tgt Ion:172 Resp: 3302815  
 Ion Ratio Lower Upper  
 172 100  
 171 40.0 28.9 43.3  
 170 27.5 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

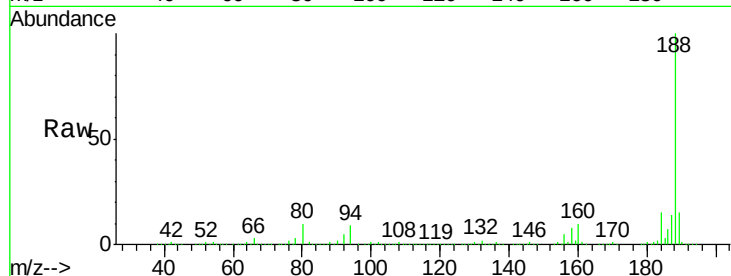




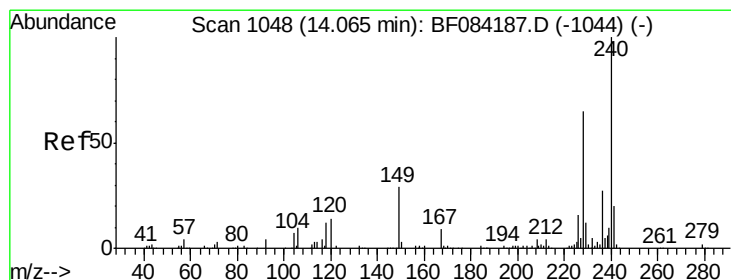
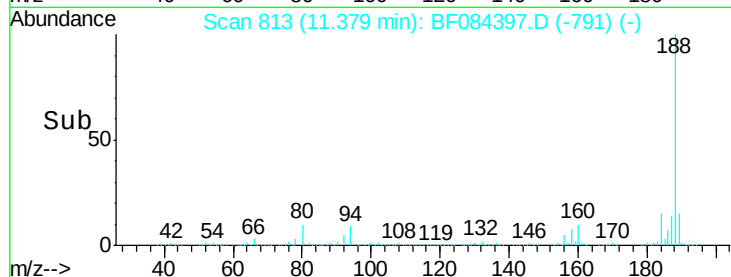
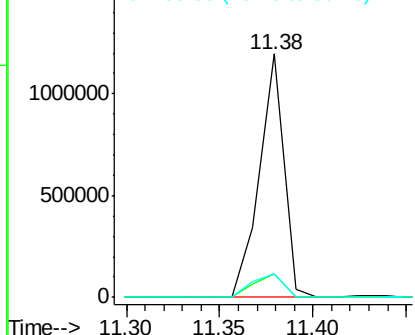
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 813  
Delta R.T. -0.05 min  
Lab File: BF084397.D  
Acq: 11 Jan 2016 23:49

Instrument :  
BNA\_F  
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HSR-WC-13-010516

Tgt Ion:188 Resp: 1091379  
Ion Ratio Lower Upper  
188 100  
94 9.4 9.0 13.4  
80 9.6 9.6 14.4#

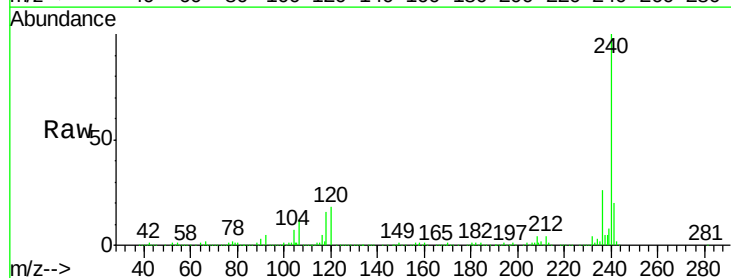


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

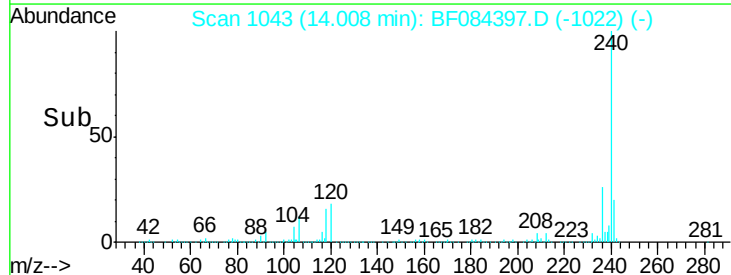
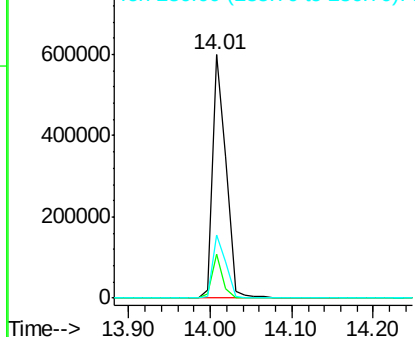


#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.01 min Scan# 1043  
Delta R.T. -0.06 min  
Lab File: BF084397.D  
Acq: 11 Jan 2016 23:49

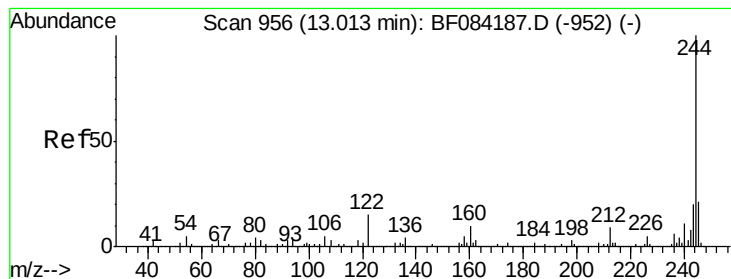
Tgt Ion:240 Resp: 689351  
Ion Ratio Lower Upper  
240 100  
120 17.9 9.5 14.3#  
236 26.1 20.6 31.0



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: 86.45 ng

RT: 12.97 min Scan# 952

Delta R.T. -0.05 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-13-010516

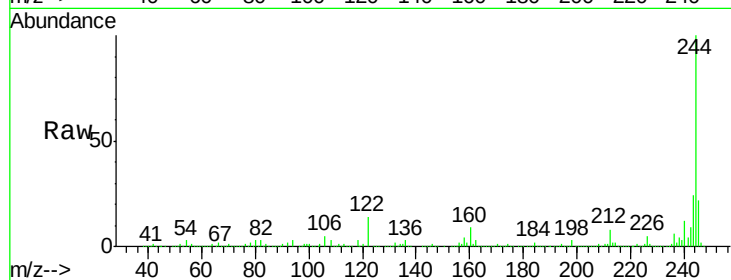
Tgt Ion:244 Resp: 2669741

Ion Ratio Lower Upper

244 100

212 8.0 5.7 8.5

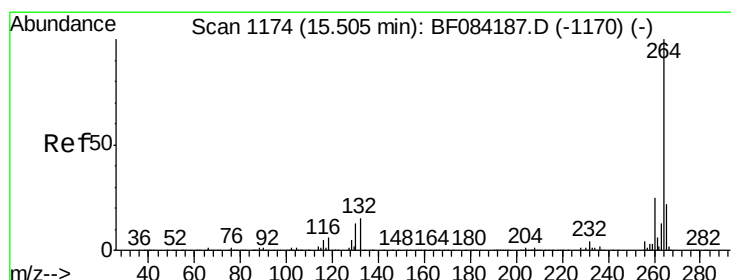
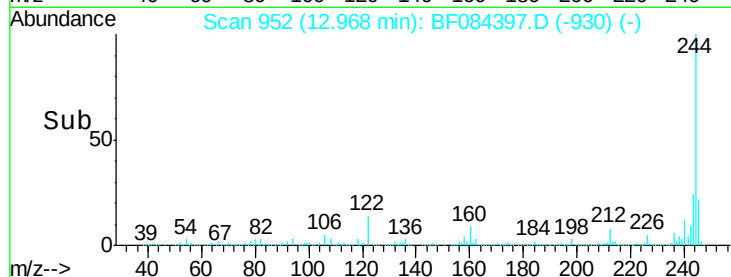
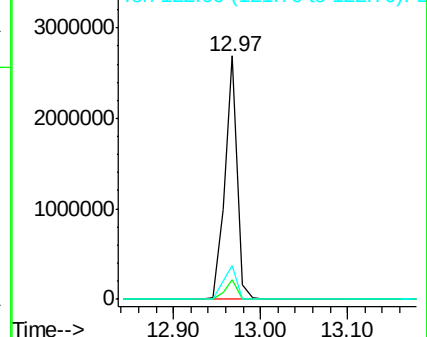
122 13.8 7.4 11.0#



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: 15.44 min Scan# 1168

Delta R.T. -0.07 min

Lab File: BF084397.D

Acq: 11 Jan 2016 23:49

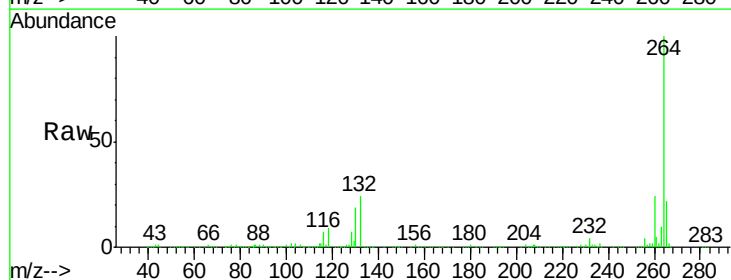
Tgt Ion:264 Resp: 598463

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

265 21.9 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

