

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111915\  
 Data File : BF083065.D  
 Acq On : 20 Nov 2015 6:21  
 Operator : UM/IZ  
 Sample : G4436-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1579

Quant Time: Nov 20 08:07:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF111915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 20 01:33:39 2015  
 Response via : Initial Calibration

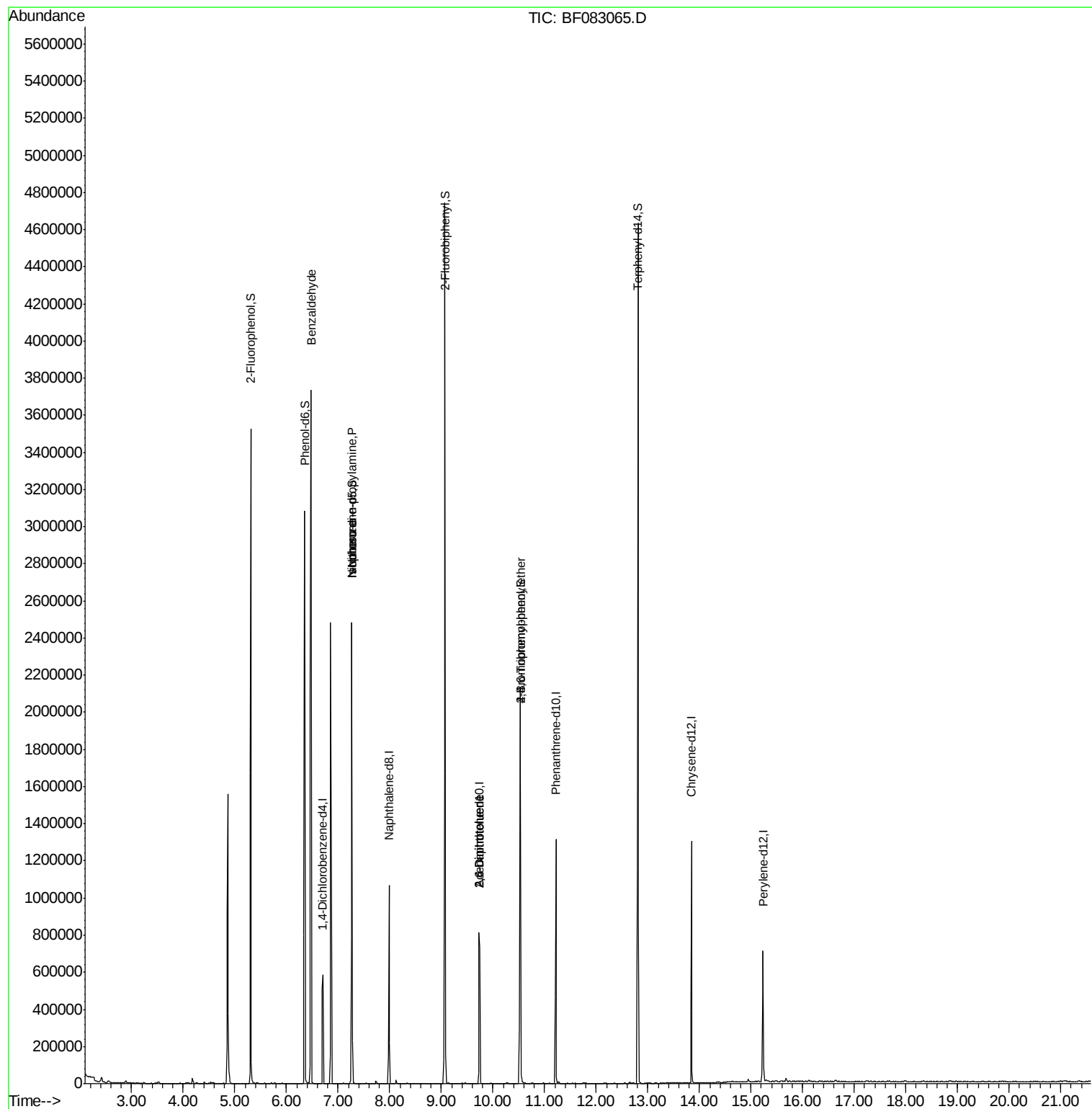
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 125058   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.98  | 136  | 475368   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.73  | 164  | 243386   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10           | 11.22 | 188  | 513941   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 13.85 | 240  | 468463   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12               | 15.23 | 264  | 361536   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.31  | 112  | 998683   | 124.03 | ng    | 0.02      |
| 7) Phenol-d6                   | 6.35  | 99   | 1071347  | 101.03 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 861479   | 82.97  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 380094   | 147.09 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 1507301  | 83.41  | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.81 | 244  | 1487327  | 74.95  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.48  | 77   | 29096    | 3.73   | ng    | Qvalue 84 |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 116977   | 15.09  | ng    | # 76      |
| 25) Isophorone                 | 7.26  | 82   | 663712   | 33.89  | ng    | # 69      |
| 50) 2,6-Dinitrotoluene         | 9.73  | 165  | 31143    | 7.21   | ng    | # 25      |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 31138    | 5.39   | ng    | # 17      |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 25319    | 4.25   | ng    | # 1       |

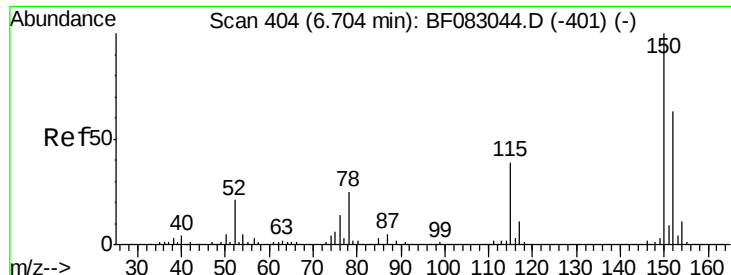
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. 0.00 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

Instrument :

BNA\_F

ClientSampleId :

SS-1579

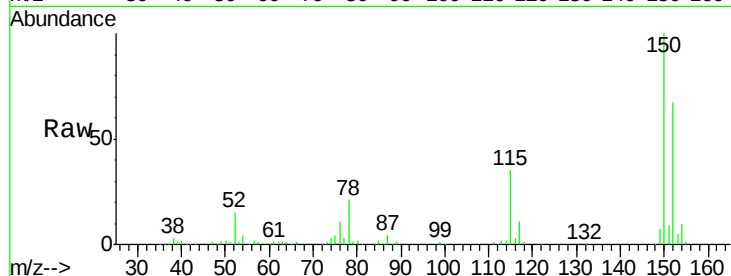
Tgt Ion:152 Resp: 125058

Ion Ratio Lower Upper

152 100

150 150.3 126.4 189.6

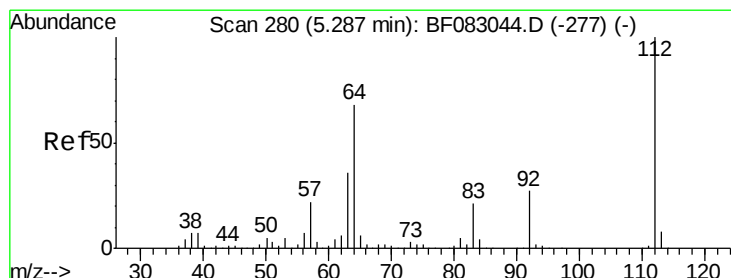
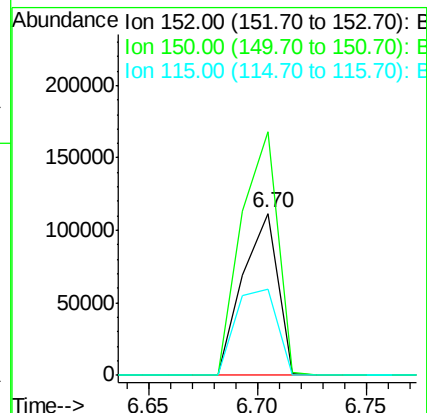
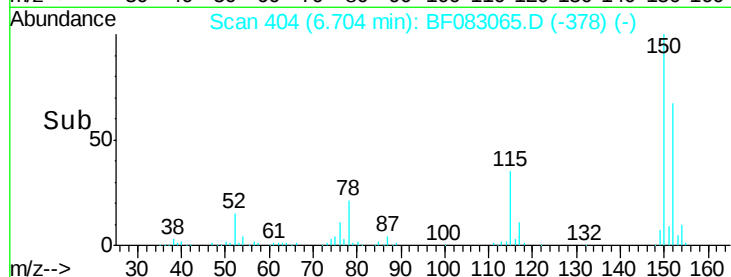
115 53.0 49.0 73.6



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: 124.03 ng

RT: 5.31 min Scan# 282

Delta R.T. 0.02 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

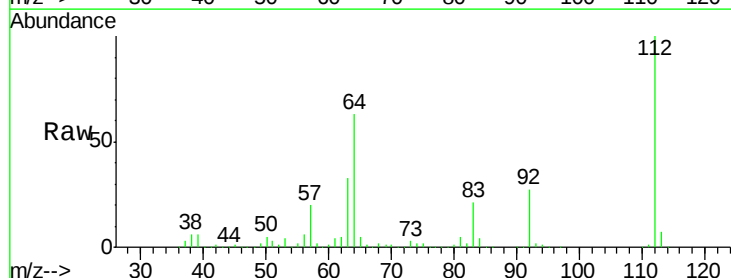
Tgt Ion:112 Resp: 998683

Ion Ratio Lower Upper

112 100

64 63.1 54.8 82.2

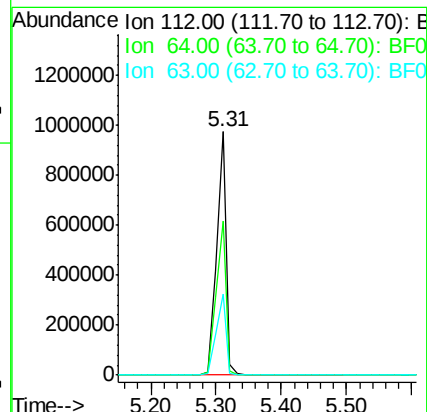
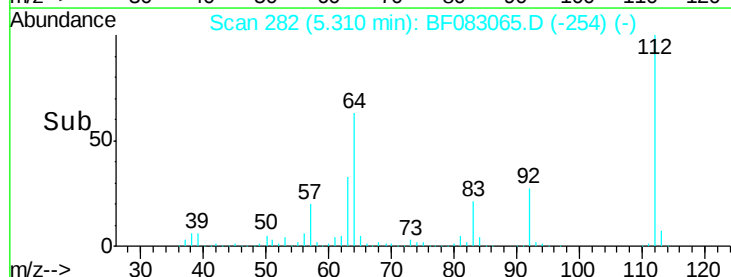
63 33.3 29.0 43.4

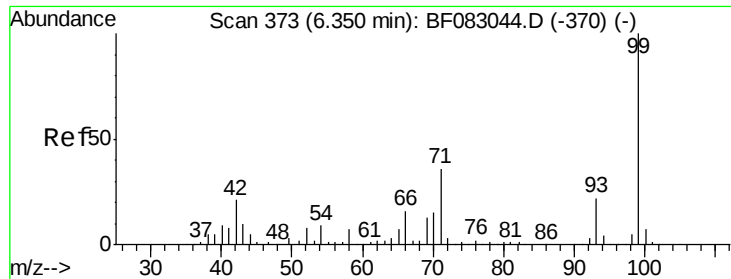


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 101.03 ng

RT: 6.35 min Scan# 373

Delta R.T. 0.00 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

Instrument :

BNA\_F

ClientSampleId :

SS-1579

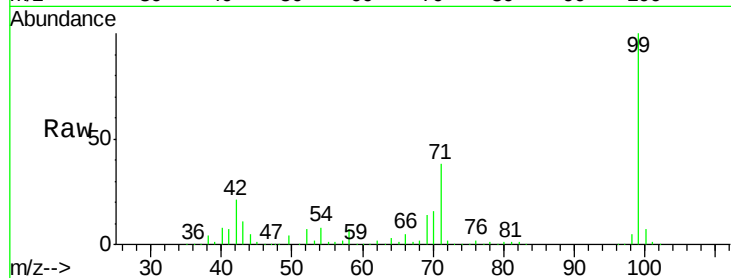
Tgt Ion: 99 Resp: 1071347

Ion Ratio Lower Upper

99 100

42 20.5 16.6 25.0

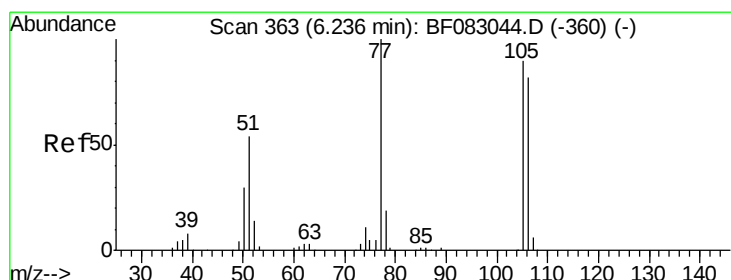
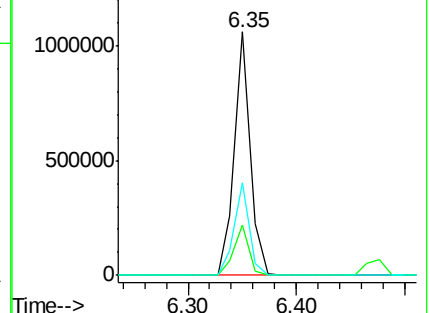
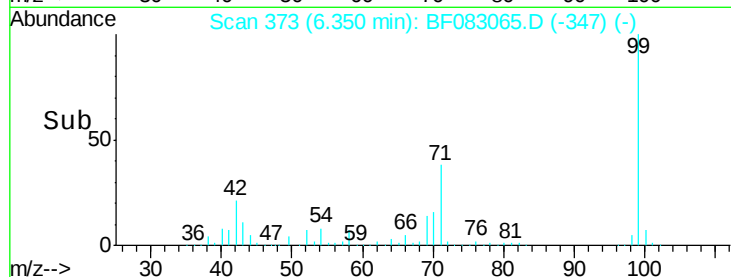
71 37.9 29.2 43.8



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



#9

Benzaldehyde

Concen: 3.73 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.24 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

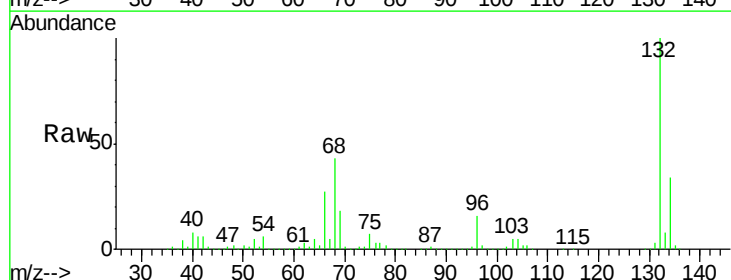
Tgt Ion: 77 Resp: 29096

Ion Ratio Lower Upper

77 100

105 75.1 69.6 109.6

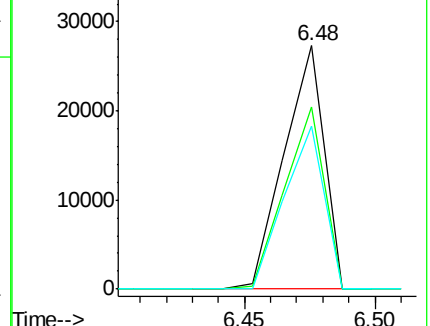
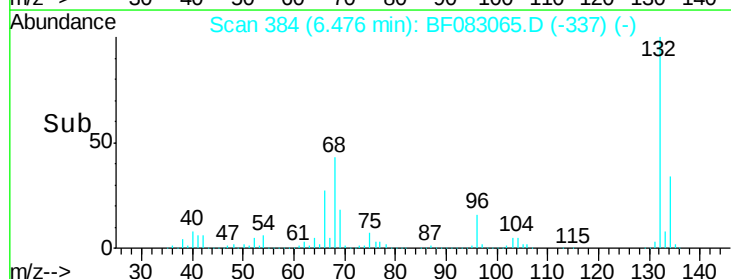
106 66.9 62.0 102.0

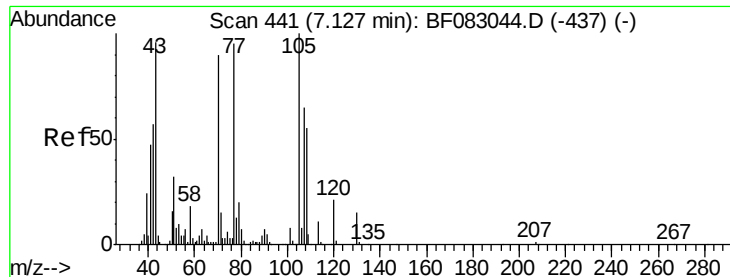


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

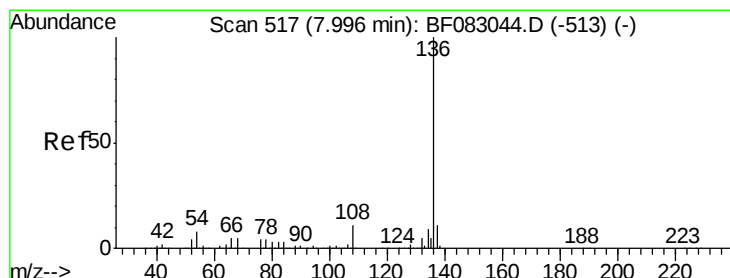
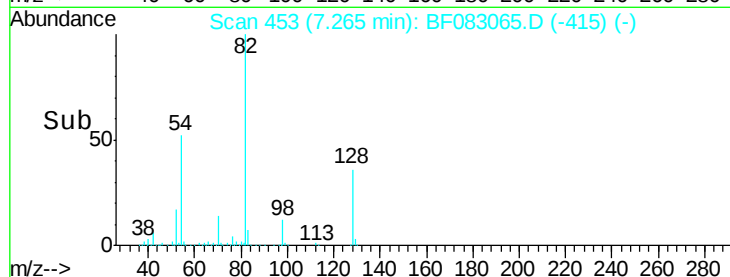
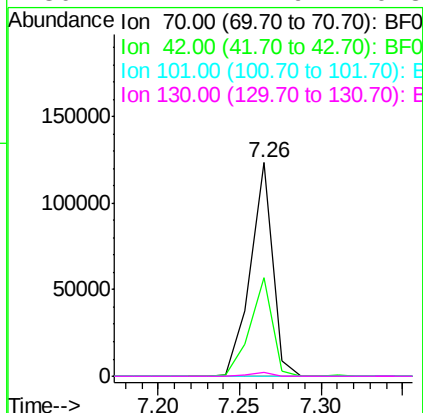
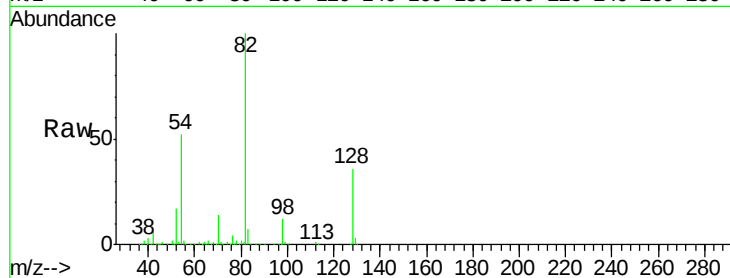




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.09 ng  
RT: 7.26 min Scan# 453  
Delta R.T. 0.14 min  
Lab File: BF083065.D  
Acq: 20 Nov 2015 6:21

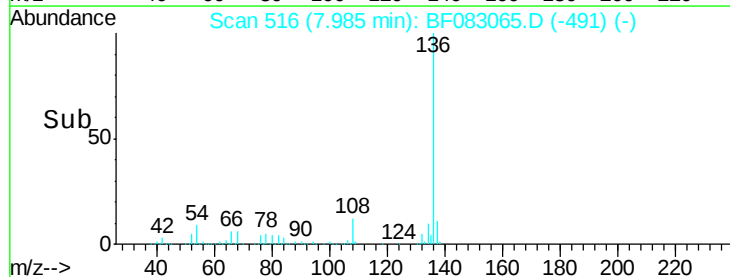
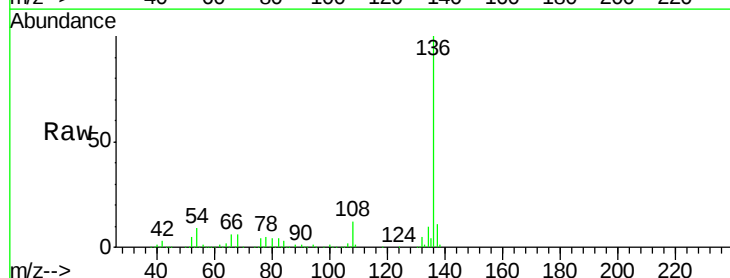
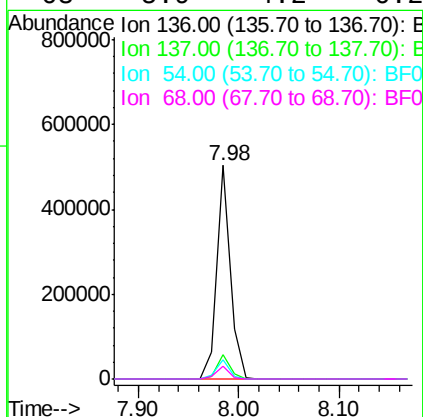
Instrument :  
BNA\_F  
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SS-1579

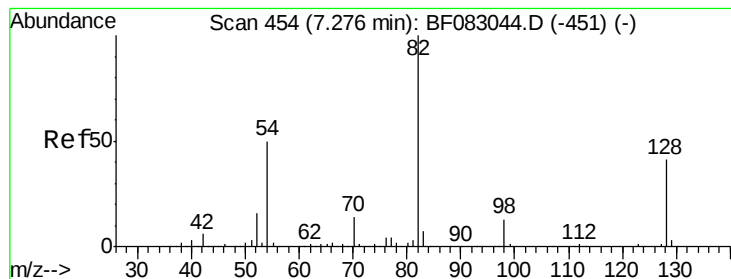
Tgt Ion: 70 Resp: 116977  
Ion Ratio Lower Upper  
70 100  
42 46.4 50.2 75.2#  
101 0.0 6.8 10.2#  
130 2.1 12.9 19.3#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.98 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: BF083065.D  
Acq: 20 Nov 2015 6:21

Tgt Ion: 136 Resp: 475368  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.6 12.8  
54 9.3 6.2 9.2#  
68 5.9 4.2 6.2





#23

Nitrobenzene-d5

Concen: 82.97 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

Instrument :

BNA\_F

ClientSampleID :

SS-1579

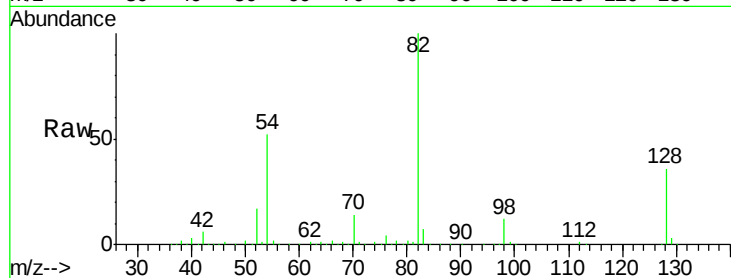
Tgt Ion: 82 Resp: 861479

Ion Ratio Lower Upper

82 100

128 36.1 33.1 49.7

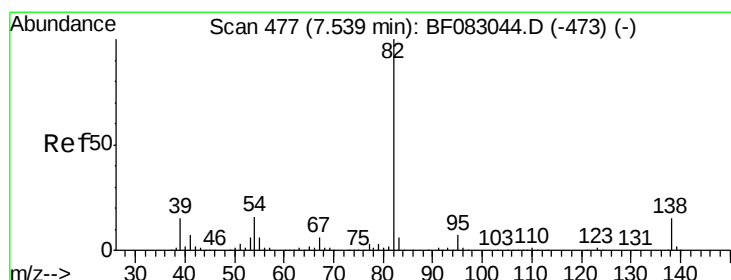
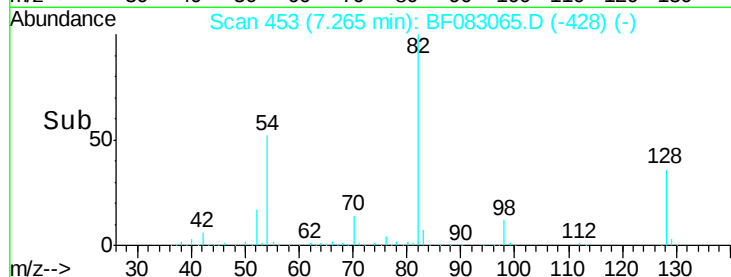
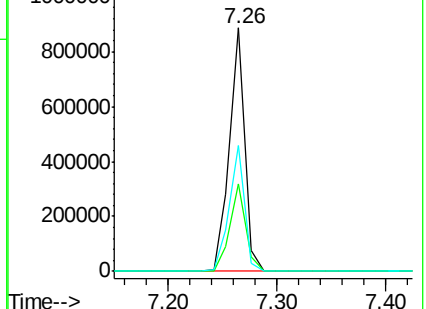
54 51.9 39.8 59.6



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: 33.89 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.27 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

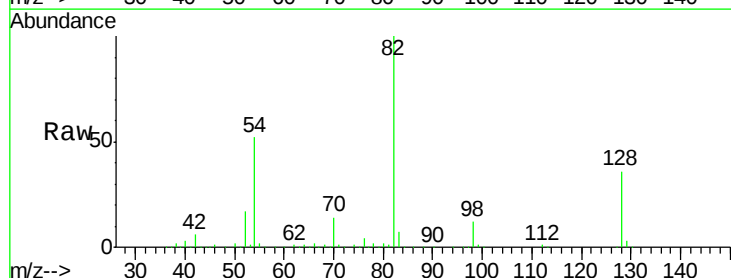
Tgt Ion: 82 Resp: 663712

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

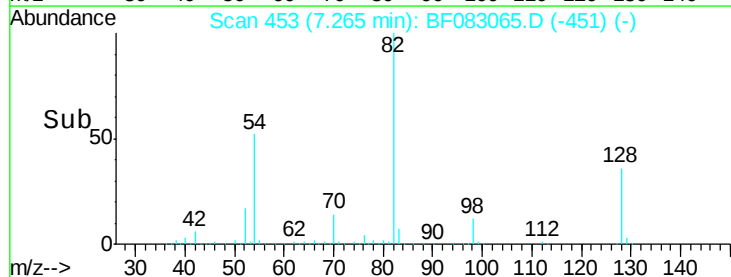
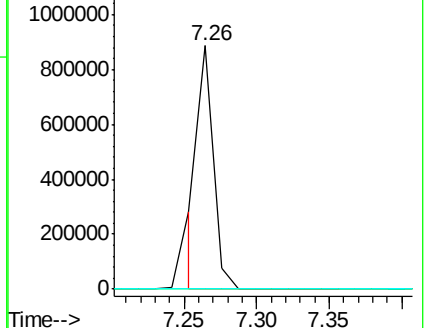
138 0.0 12.2 18.4#

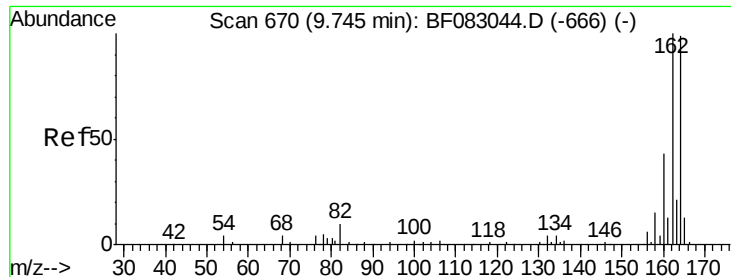


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.73 min Scan# 669

Delta R.T. -0.01 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

Instrument :

BNA\_F

ClientSampleId :

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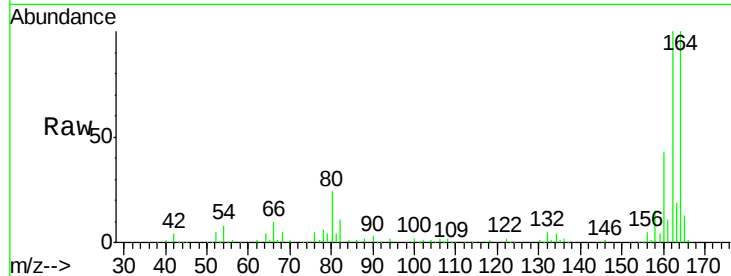
Tgt Ion:164 Resp: 243386

Ion Ratio Lower Upper

164 100

162 100.2 80.5 120.7

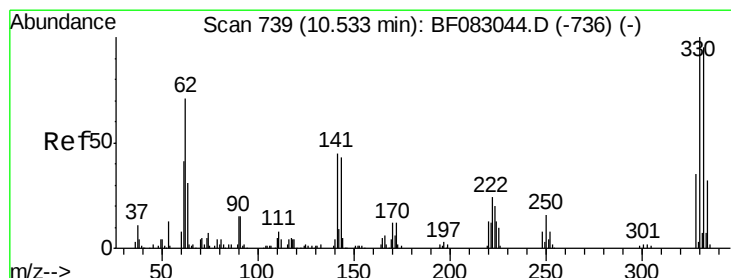
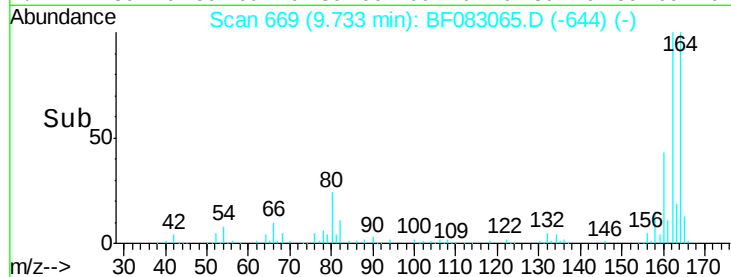
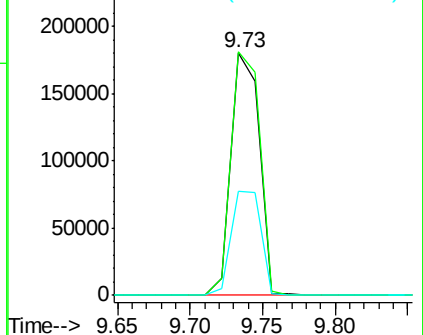
160 43.0 35.0 52.4



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: 147.09 ng

RT: 10.53 min Scan# 739

Delta R.T. 0.00 min

Lab File: BF083065.D

Acq: 20 Nov 2015 6:21

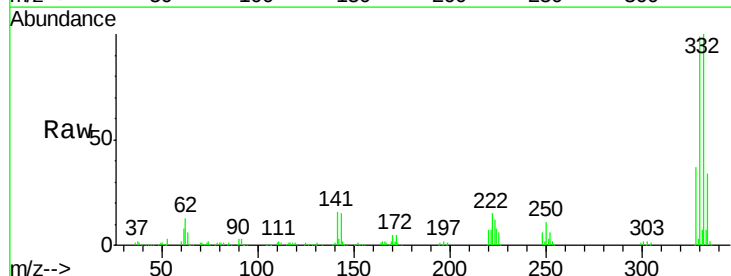
Tgt Ion:330 Resp: 380094

Ion Ratio Lower Upper

330 100

332 100.4 77.6 116.4

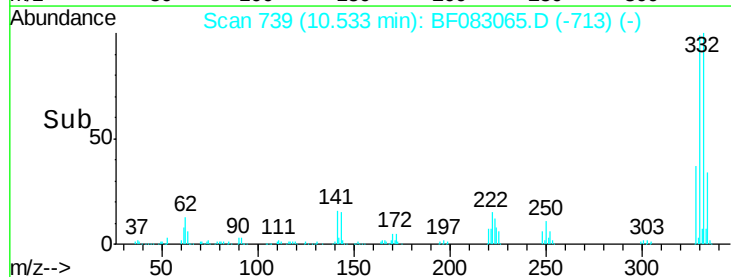
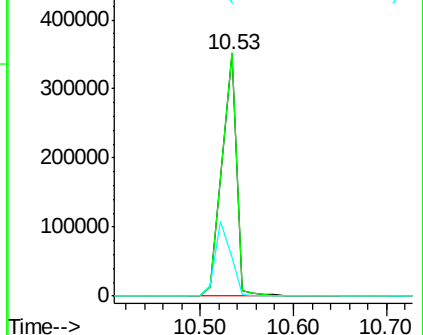
141 33.2 34.6 52.0#

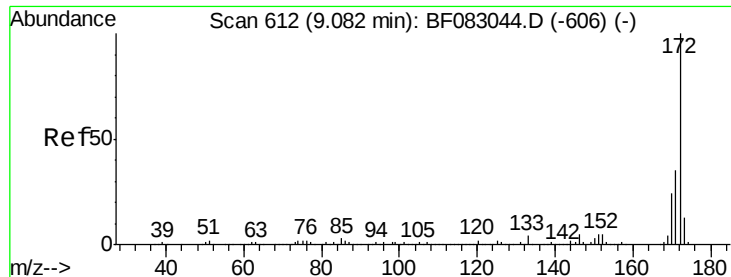


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

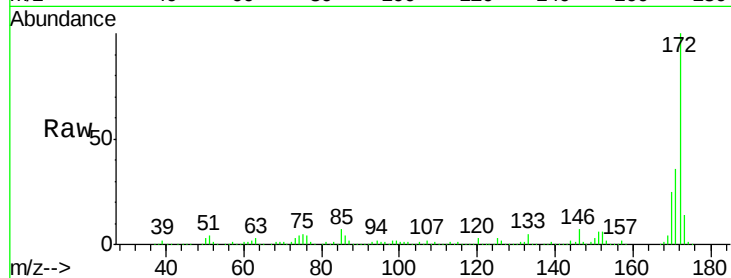




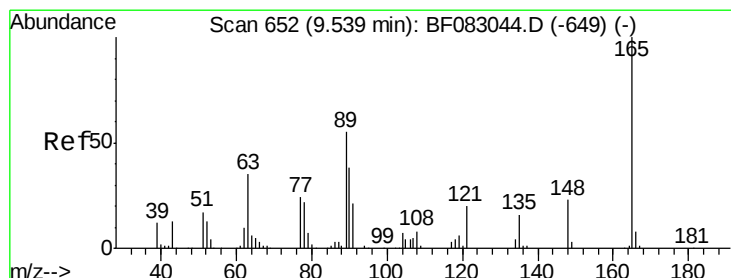
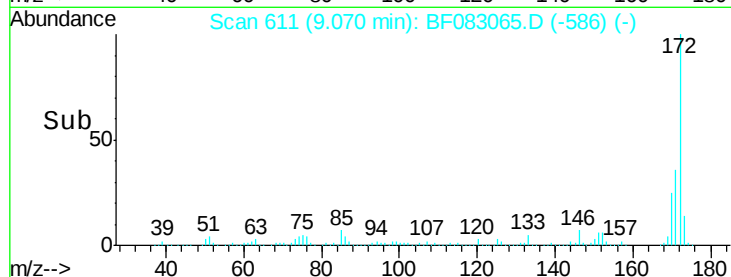
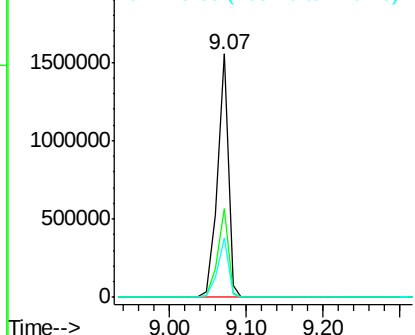
#44  
 2-Fluorobiphenyl  
 Concen: 83.41 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

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Tgt Ion:172 Resp: 1507301  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 28.2 42.4  
 170 24.6 19.4 29.0

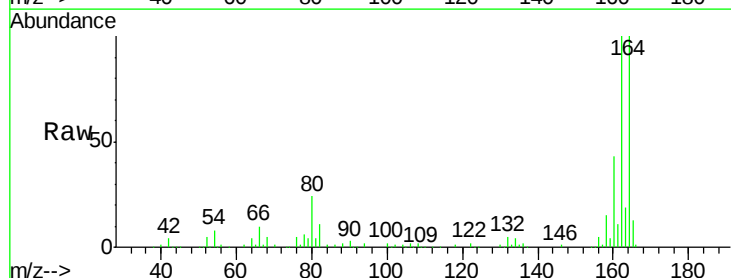


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

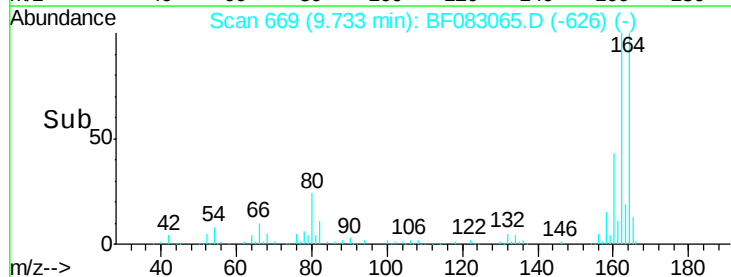
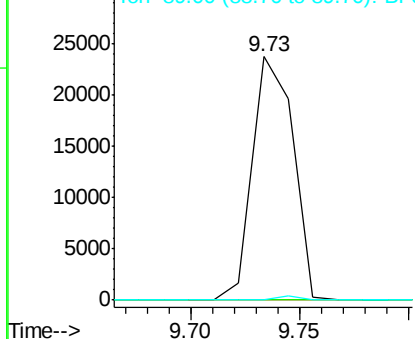


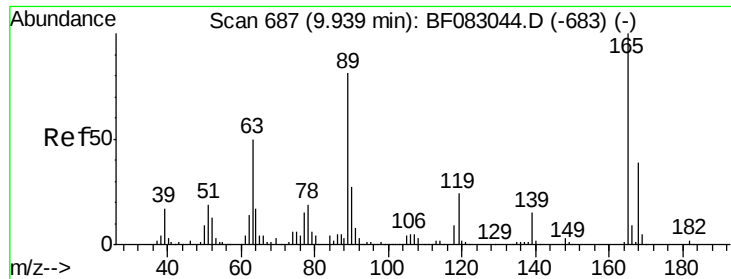
#50  
 2,6-Dinitrotoluene  
 Concen: 7.21 ng  
 RT: 9.73 min Scan# 669  
 Delta R.T. 0.19 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

Tgt Ion:165 Resp: 31143  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 40.6 61.0#  
 89 0.0 44.5 66.7#



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

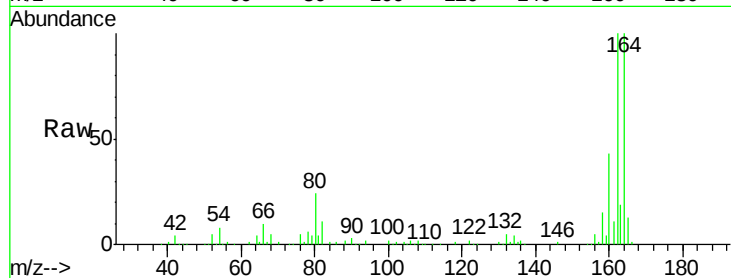




#56  
 2,4-Dinitrotoluene  
 Concen: 5.39 ng  
 RT: 9.73 min Scan# 669  
 Delta R.T. -0.21 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1579

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 40.6  | 61.0# |
| 89      | 0.0   | 64.4  | 96.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

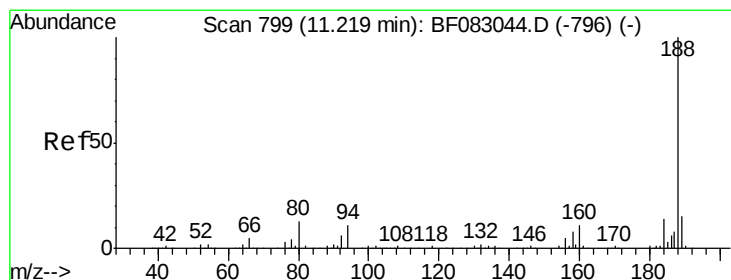
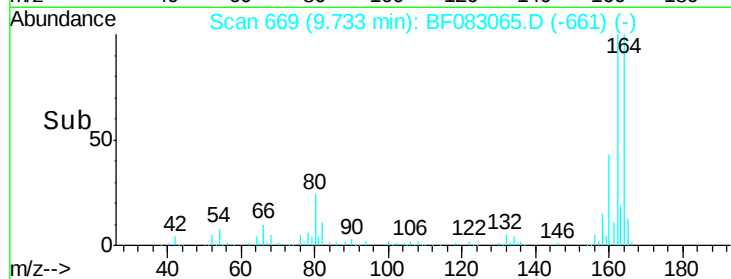
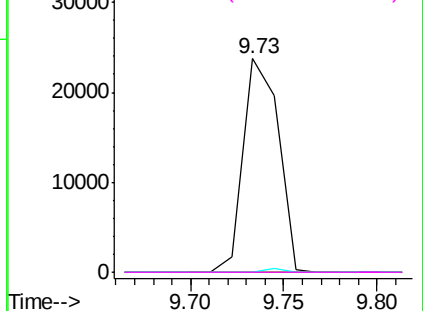


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

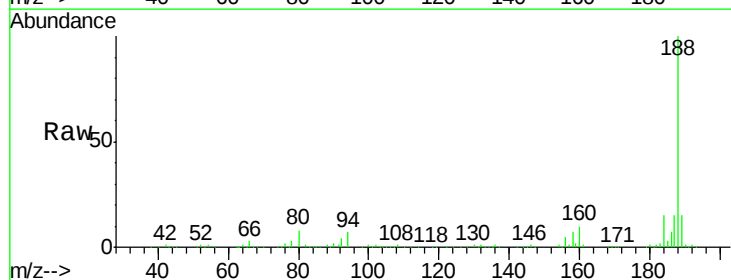
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.22 min Scan# 799  
 Delta R.T. 0.00 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

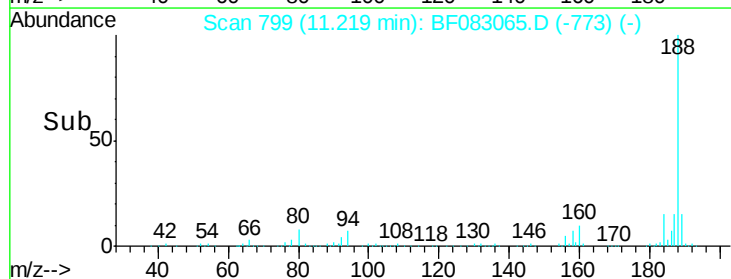
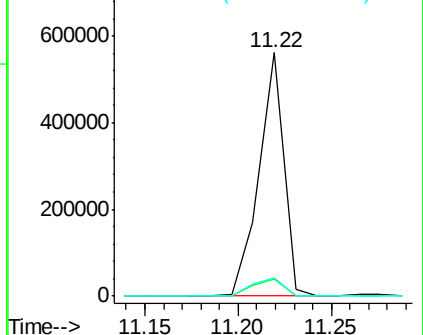
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.0   | 9.0   | 13.4# |
| 80      | 7.7   | 10.2  | 15.4# |

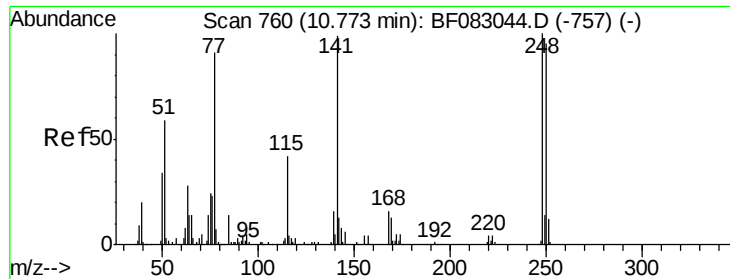


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

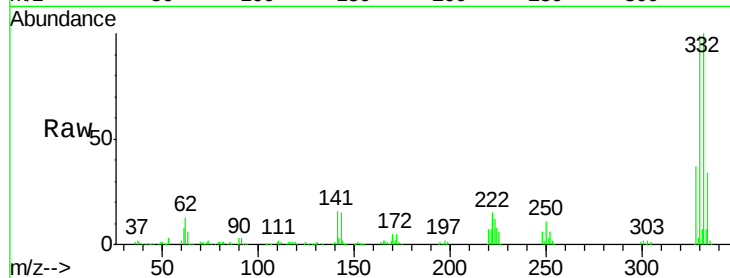




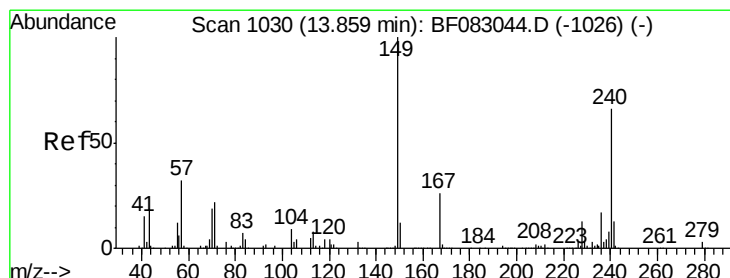
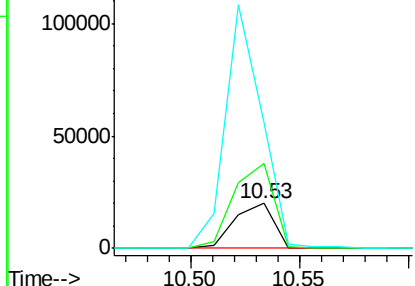
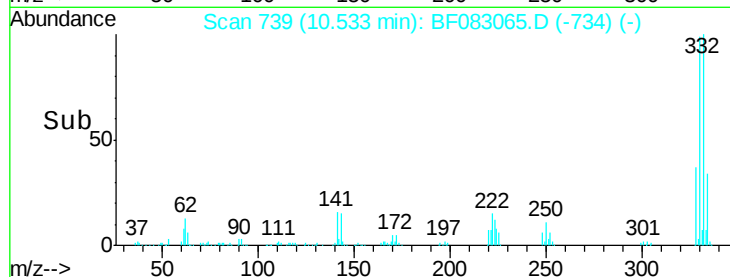
#66  
4-Bromophenyl-phenylether  
Concen: 4.25 ng  
RT: 10.53 min Scan# 739  
Delta R.T. -0.24 min  
Lab File: BF083065.D  
Acq: 20 Nov 2015 6:21

Instrument :  
BNA\_F  
ClientSampleId :  
SS-1579

Tgt Ion:248 Resp: 25319  
Ion Ratio Lower Upper  
248 100  
250 188.2 76.1 114.1#  
141 280.3 79.2 118.8#

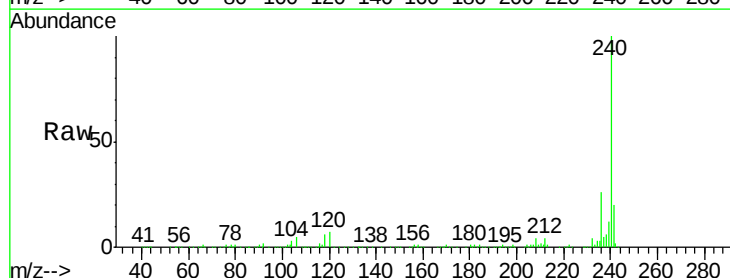


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

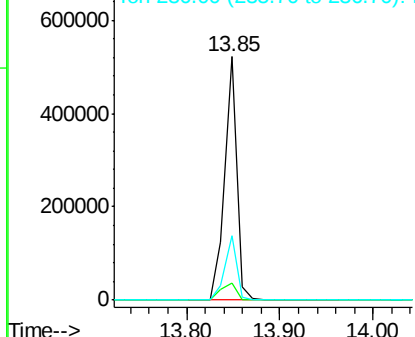
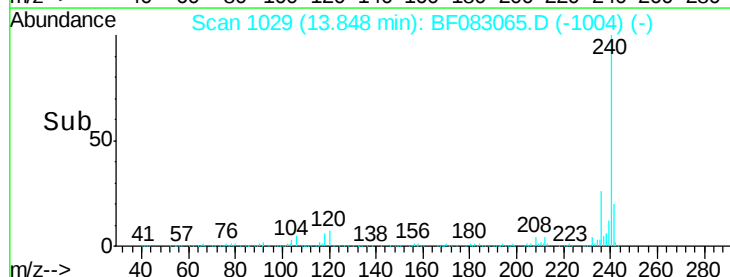


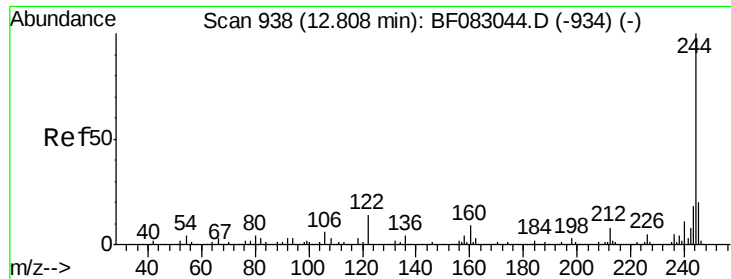
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.85 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: BF083065.D  
Acq: 20 Nov 2015 6:21

Tgt Ion:240 Resp: 468463  
Ion Ratio Lower Upper  
240 100  
120 7.3 5.3 7.9  
236 26.2 20.4 30.6



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

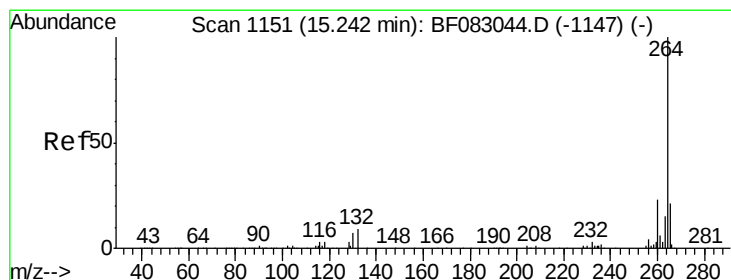
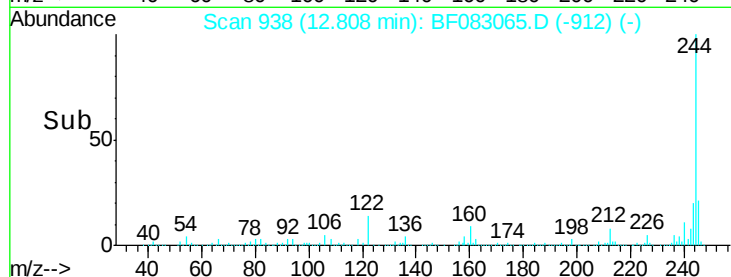
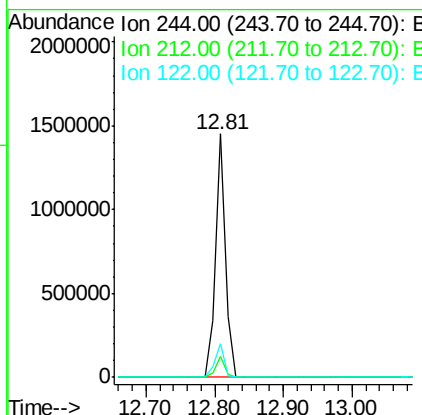
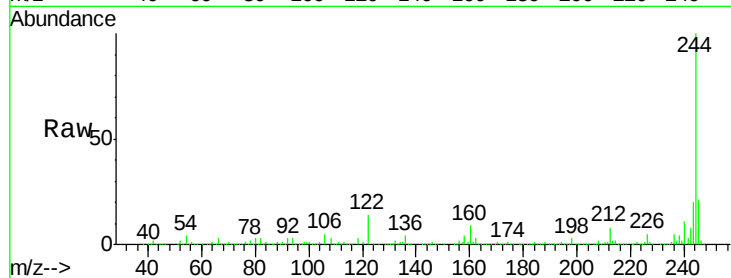




#78  
 Terphenyl-d14  
 Concen: 74.95 ng  
 RT: 12.81 min Scan# 938  
 Delta R.T. 0.00 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-1579

Tgt Ion:244 Resp: 1487327  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 6.4 9.6  
 122 13.6 10.9 16.3



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.23 min Scan# 1150  
 Delta R.T. -0.01 min  
 Lab File: BF083065.D  
 Acq: 20 Nov 2015 6:21

Tgt Ion:264 Resp: 361536  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 18.6 27.8  
 265 21.9 17.0 25.6

