

Data Path : Z:\HPCHEM1\BNA F\Data\BF060616\  
 Data File : BF087783.D  
 Acq On : 7 Jun 2016 11:27  
 Operator : UM/SJ  
 Sample : H3372-01  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-49-060116

Quant Time: Jun 07 14:37:51 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 04 11:07:28 2016  
 Response via : Initial Calibration

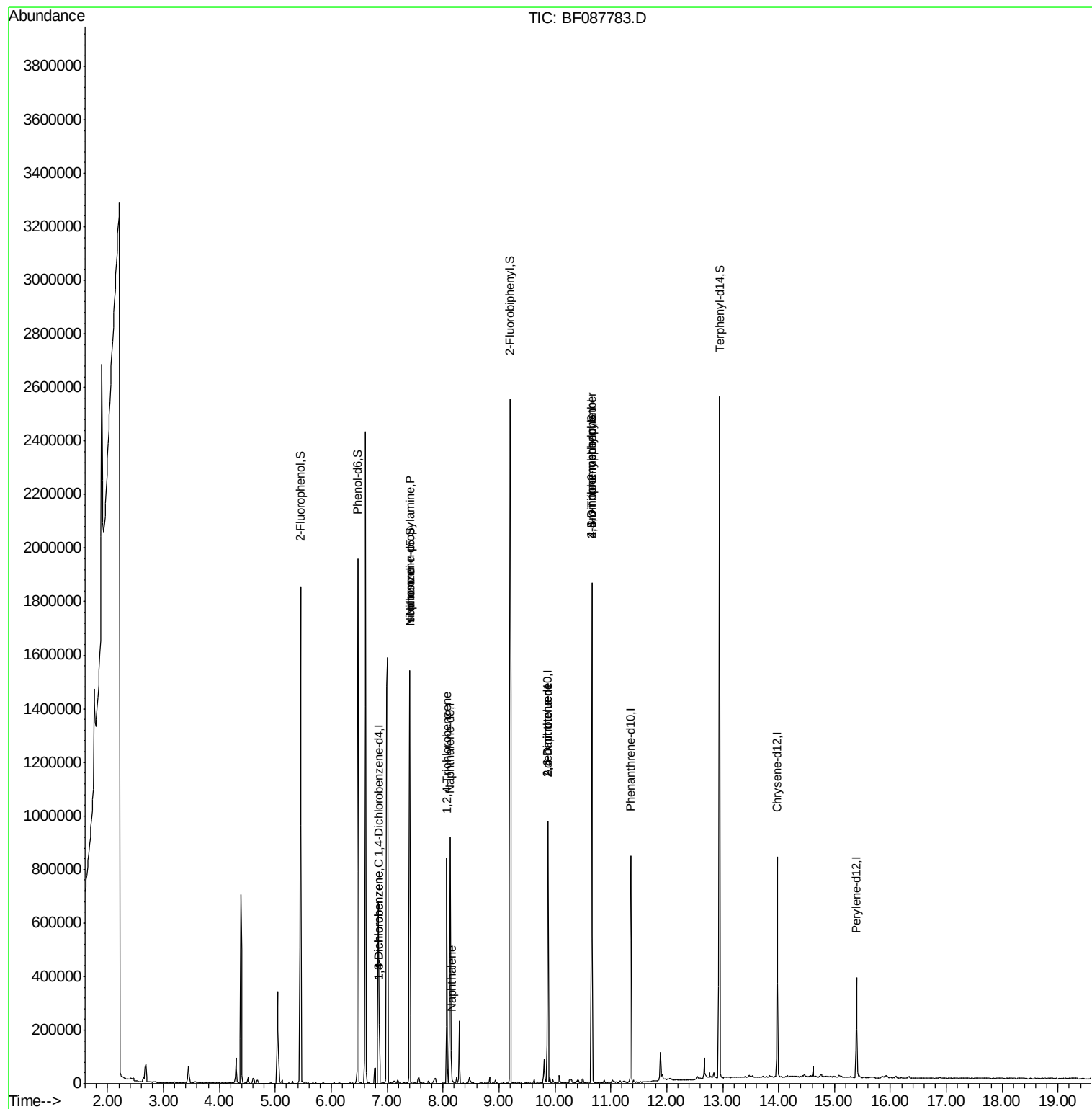
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 104513   | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8             | 8.12  | 136  | 411317   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.87  | 164  | 198062   | 20.00  | ng    | -0.03     |
| 63) Phenanthrene-d10           | 11.36 | 188  | 387453   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12               | 13.98 | 240  | 297979   | 20.00  | ng    | -0.05     |
| 86) Perylene-d12               | 15.39 | 264  | 147962   | 20.00  | ng    | -0.05     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.45  | 112  | 726244   | 112.32 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.48  | 99   | 763762   | 94.18  | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 556715   | 78.31  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.66 | 330  | 283573   | 142.63 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 1155853  | 92.06  | ng    | -0.03     |
| 78) Terphenyl-d14              | 12.95 | 244  | 1175281  | 96.24  | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 12) 1,3-Dichlorobenzene        | 6.86  | 146  | 46052    | 5.78   | ng    | Qvalue 97 |
| 13) 1,4-Dichlorobenzene        | 6.86  | 146  | 46052    | 5.76   | ng    | 97        |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 73086    | 14.43  | ng    | # 74      |
| 25) Isophorone                 | 7.40  | 82   | 425163   | 32.85  | ng    | # 65      |
| 30) 1,2,4-Trichlorobenzene     | 8.07  | 180  | 152398   | 25.86  | ng    | 98        |
| 31) Naphthalene                | 8.15  | 128  | 41601    | 2.08   | ng    | 98        |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165  | 25211    | 7.70   | ng    | # 40      |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 25213    | 6.04   | ng    | # 38      |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 375      | 2.18   | ng    | # 1       |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 15334    | 3.99   | ng    | # 1       |

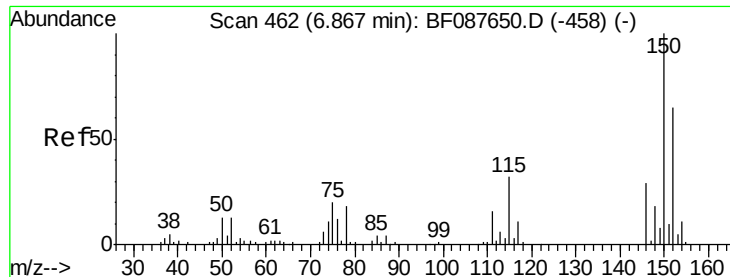
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 04 11:07:28 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 460

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

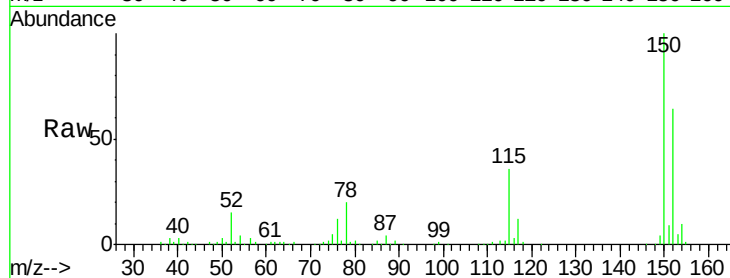
Tot Ion:152 Resp: 104513

Ion Ratio Lower Upper

152 100

150 156.5 123.8 185.6

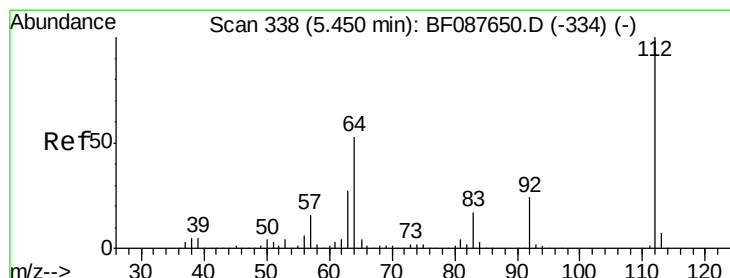
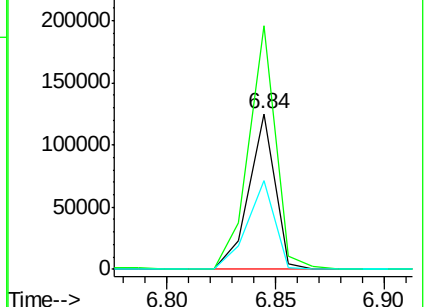
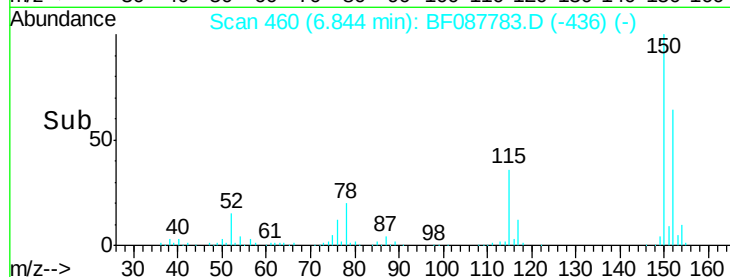
115 56.7 39.6 59.4



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: 112.32 ng

RT: 5.45 min Scan# 338

Delta R.T. -0.00 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

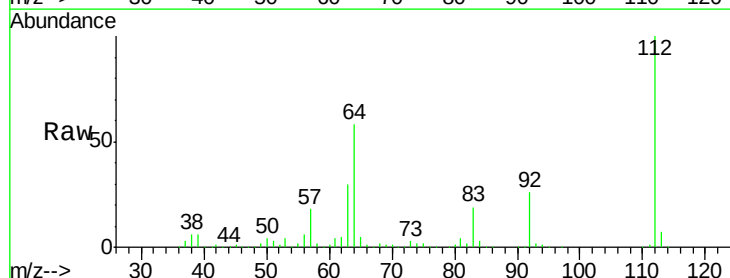
Tgt Ion:112 Resp: 726244

Ion Ratio Lower Upper

112 100

64 57.7 42.2 63.2

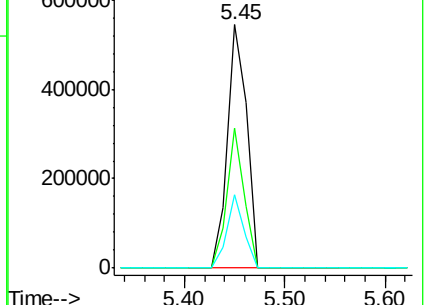
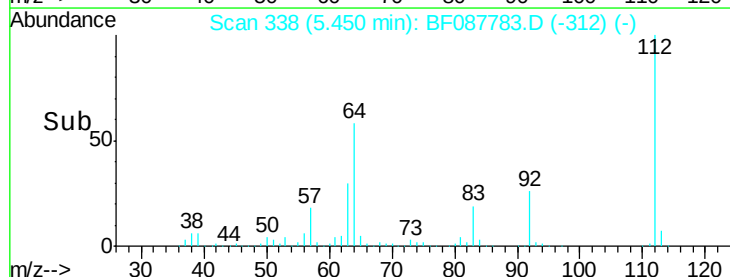
63 30.0 21.8 32.8

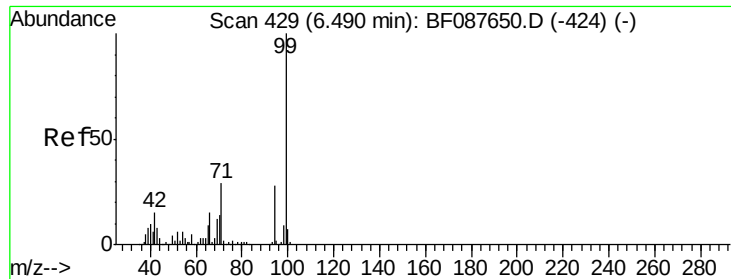


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 94.18 ng

RT: 6.48 min Scan# 428

Delta R.T. -0.01 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

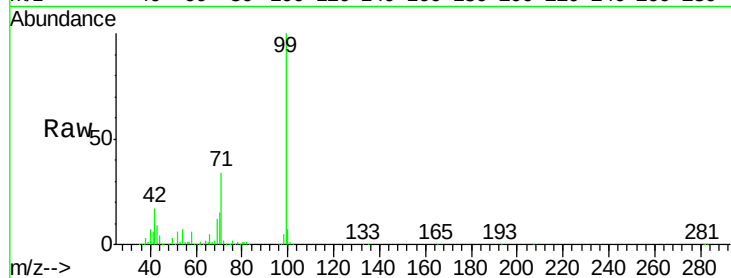
Tot Ion: 99 Resp: 763762

Ion Ratio Lower Upper

99 100

42 17.4 12.2 18.2

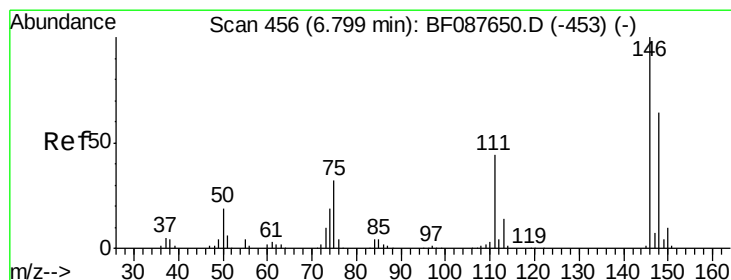
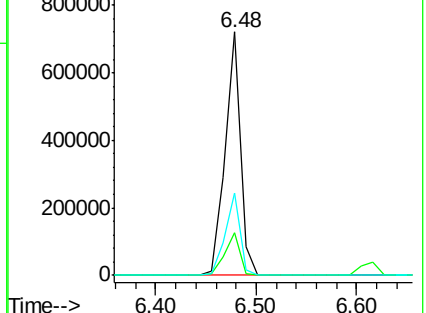
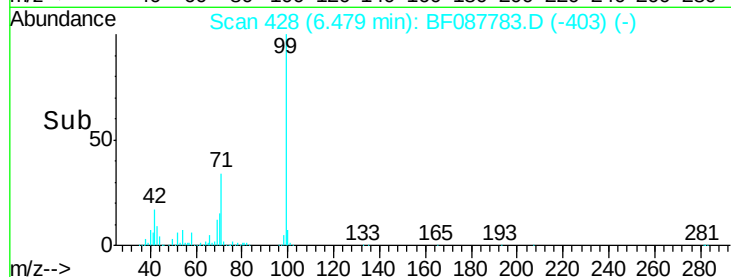
71 34.1 23.4 35.0



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



#12

1,3-Dichlorobenzene

Concen: 5.78 ng

RT: 6.86 min Scan# 461

Delta R.T. 0.06 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

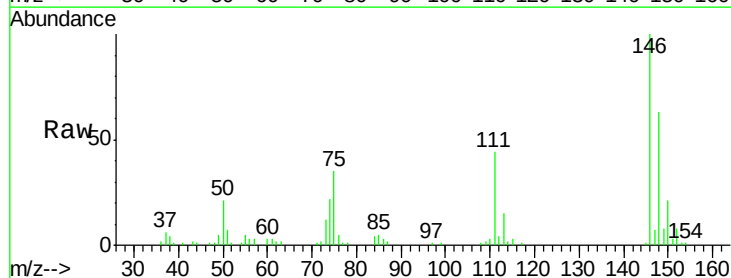
Tgt Ion: 146 Resp: 46052

Ion Ratio Lower Upper

146 100

148 62.7 50.9 76.3

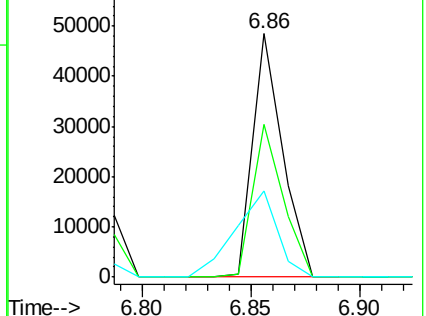
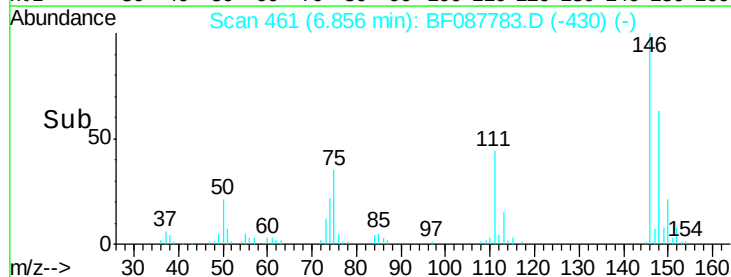
75 35.4 25.6 38.4

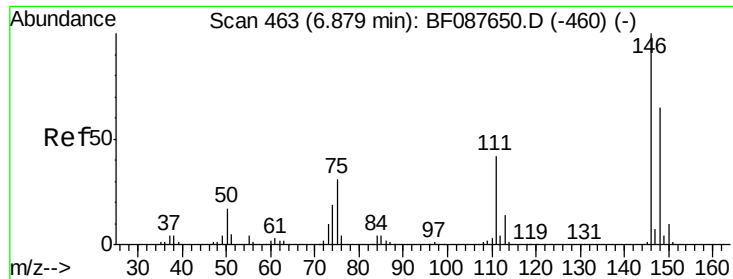


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0

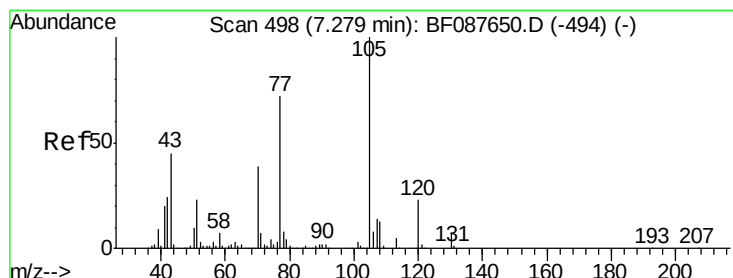
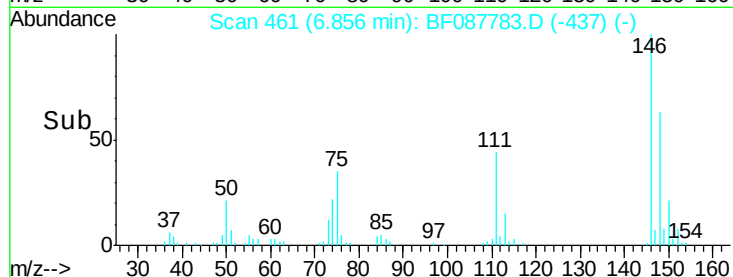
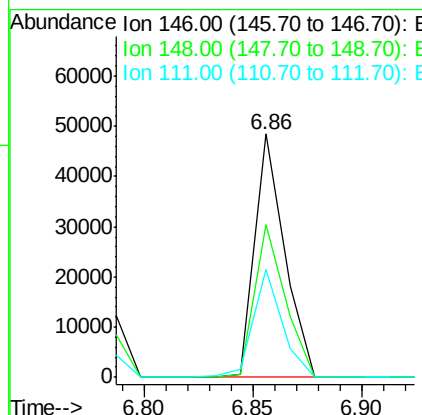
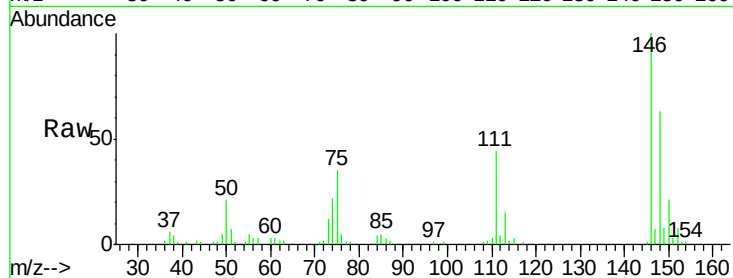




#13  
 1,4-Dichlorobenzene  
 Concen: 5.76 ng  
 RT: 6.86 min Scan# 461  
 Delta R.T. -0.02 min  
 Lab File: BF087783.D  
 Acq: 7 Jun 2016 11:27

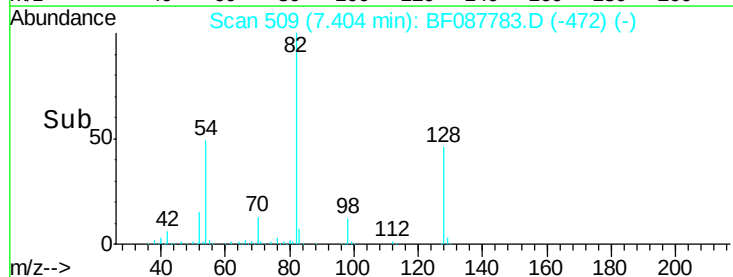
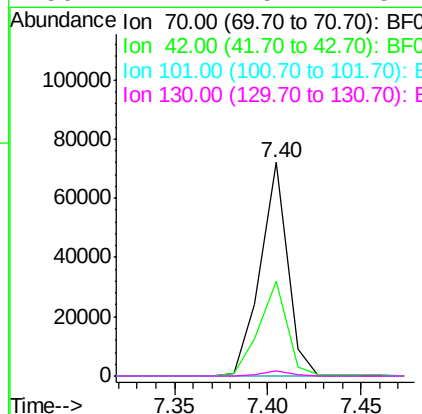
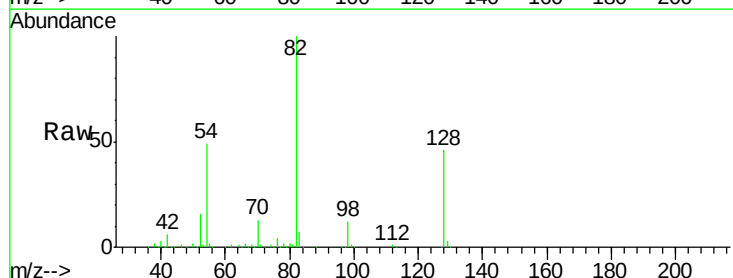
Instrument :  
 BNA\_F  
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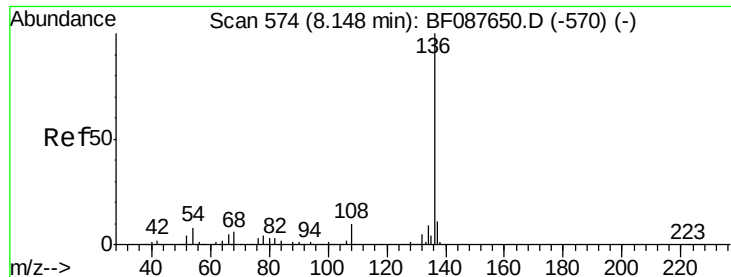
Tot Ion:146 Resp: 46052  
 Ion Ratio Lower Upper  
 146 100  
 148 62.7 52.0 78.0  
 111 44.5 33.8 50.8



#19  
 n-Nitroso-di-n-propylamine  
 Concen: 14.43 ng  
 RT: 7.40 min Scan# 509  
 Delta R.T. 0.13 min  
 Lab File: BF087783.D  
 Acq: 7 Jun 2016 11:27

Tgt Ion: 70 Resp: 73086  
 Ion Ratio Lower Upper  
 70 100  
 42 44.1 49.6 74.4#  
 101 0.0 7.1 10.7#  
 130 2.4 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 572

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

Tot Ion:136 Resp: 411317

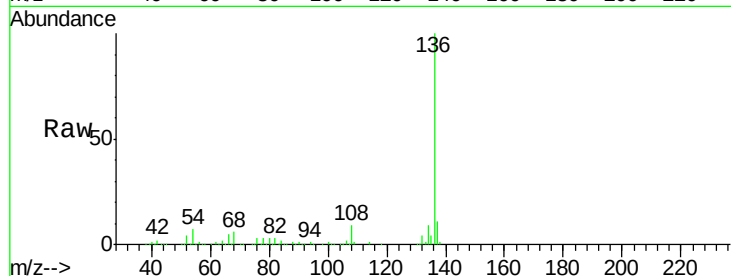
Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 7.3 6.6 10.0

68 5.9 5.1 7.7

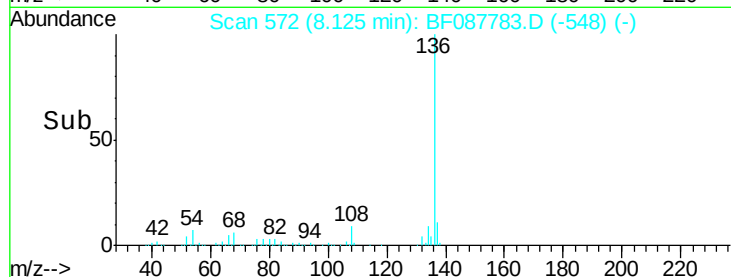


Abundance Ion 136.00 (135.70 to 136.70): E

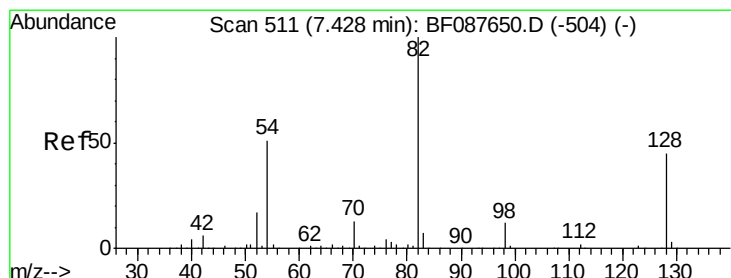
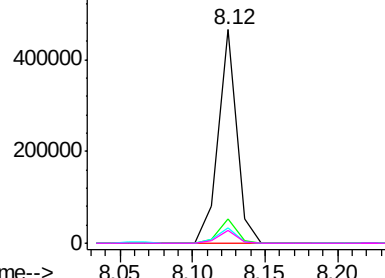
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 78.31 ng

RT: 7.40 min Scan# 509

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

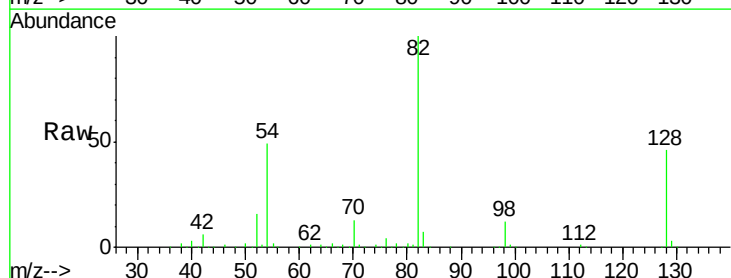
Tgt Ion: 82 Resp: 556715

Ion Ratio Lower Upper

82 100

128 46.3 35.9 53.9

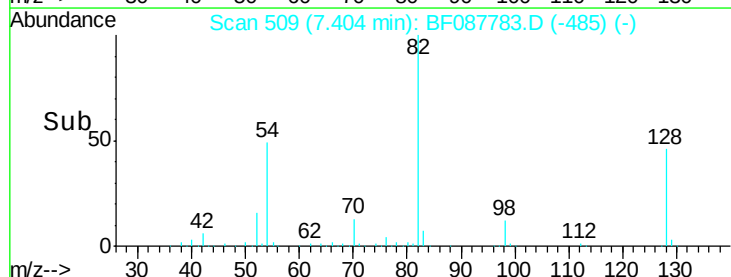
54 49.3 40.9 61.3



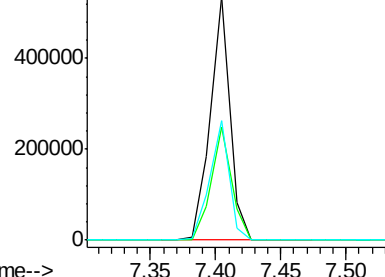
Abundance Ion 82.00 (81.70 to 82.70): BF0

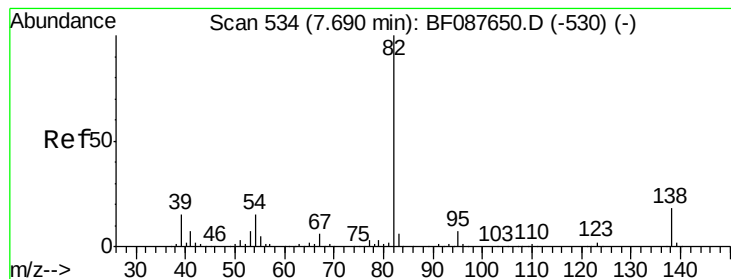
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 32.85 ng

RT: 7.40 min Scan# 509

Delta R.T. -0.29 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

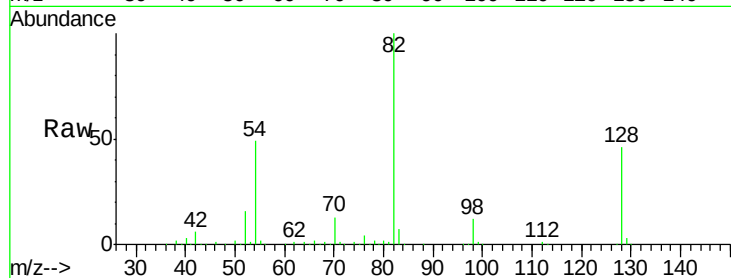
Tot Ion: 82 Resp: 425163

Ion Ratio Lower Upper

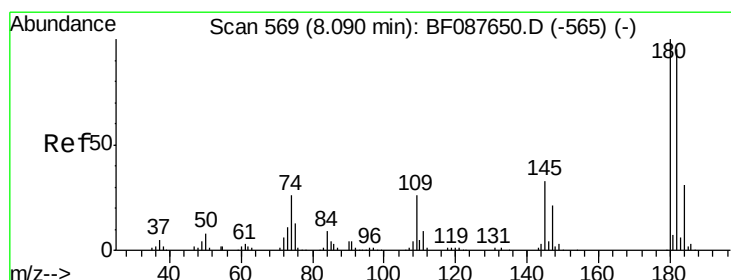
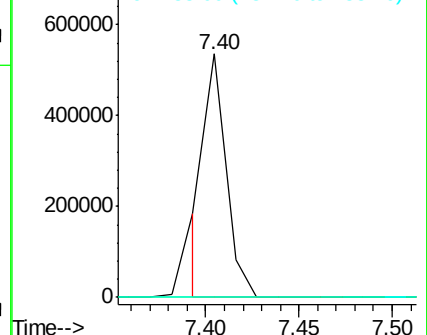
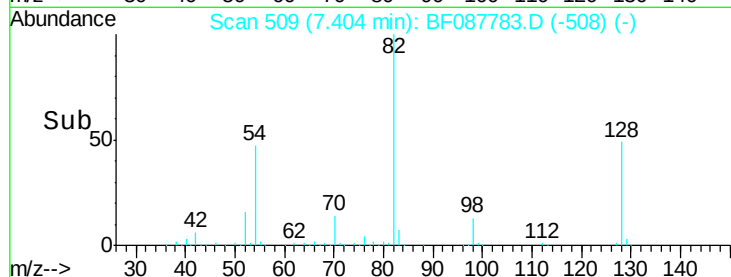
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



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): E



#30

1,2,4-Trichlorobenzene

Concen: 25.86 ng

RT: 8.07 min Scan# 567

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

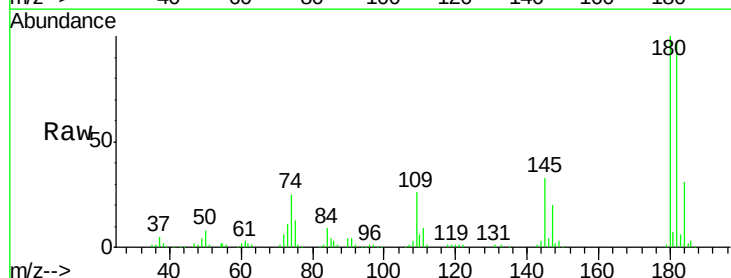
Tgt Ion: 180 Resp: 152398

Ion Ratio Lower Upper

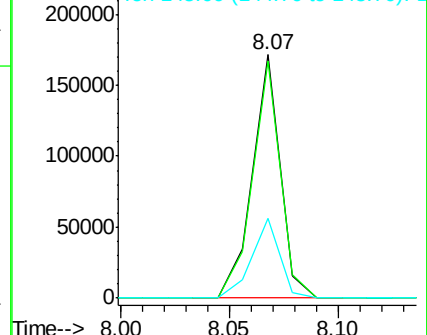
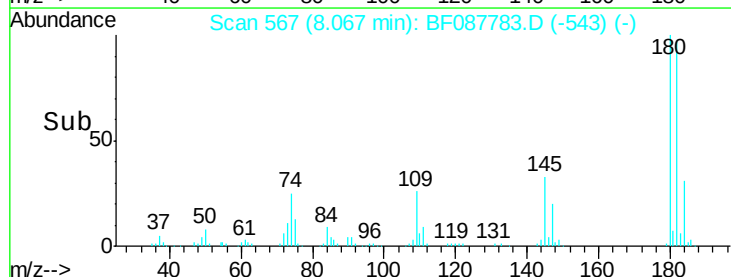
180 100

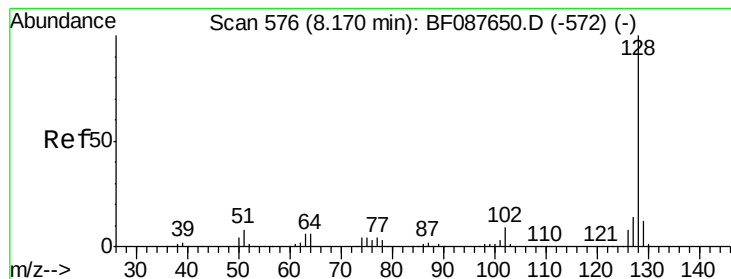
182 97.3 76.0 114.0

145 32.6 26.5 39.7



Abundance Ion 180.00 (179.70 to 180.70): E  
Ion 182.00 (181.70 to 182.70): E  
Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 2.08 ng

RT: 8.15 min Scan# 574

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

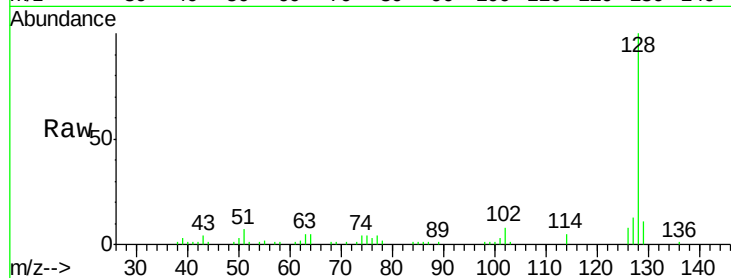
Tot Ion:128 Resp: 41601

Ion Ratio Lower Upper

128 100

129 10.9 9.4 14.2

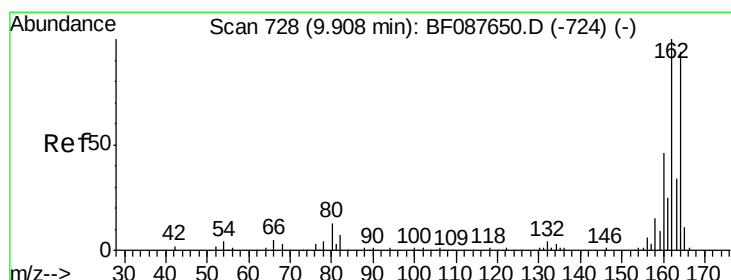
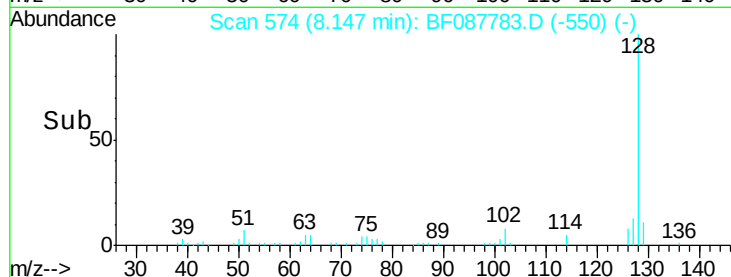
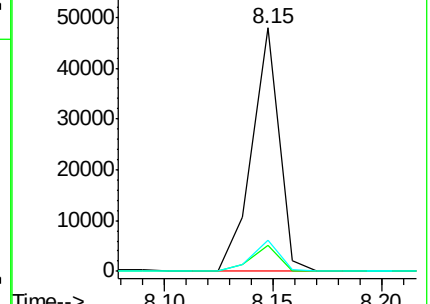
127 12.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 725

Delta R.T. -0.03 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

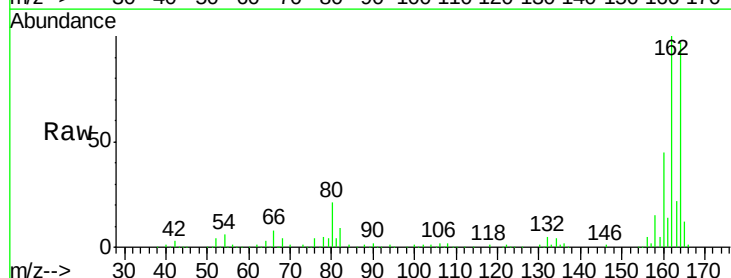
Tgt Ion:164 Resp: 198062

Ion Ratio Lower Upper

164 100

162 103.3 85.4 128.2

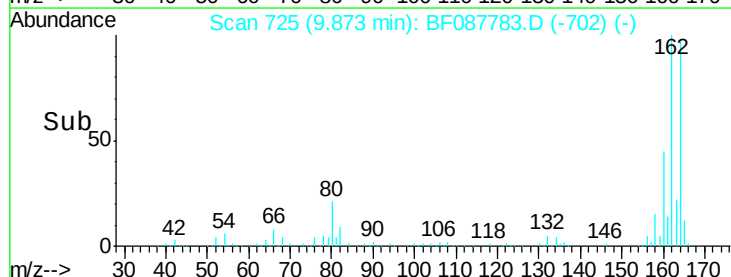
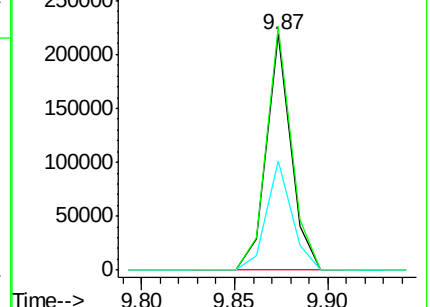
160 46.4 39.5 59.3



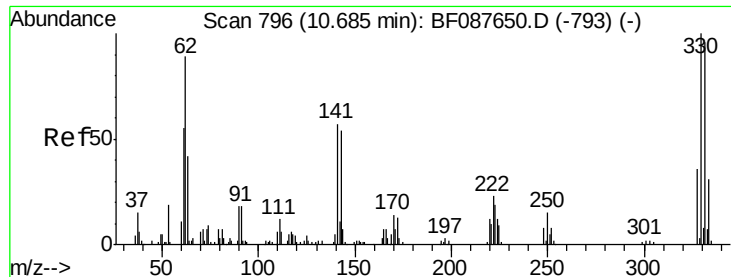
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E







#41

2,4,6-Tribromophenol

Concen: 142.63 ng

RT: 10.66 min Scan# 794

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

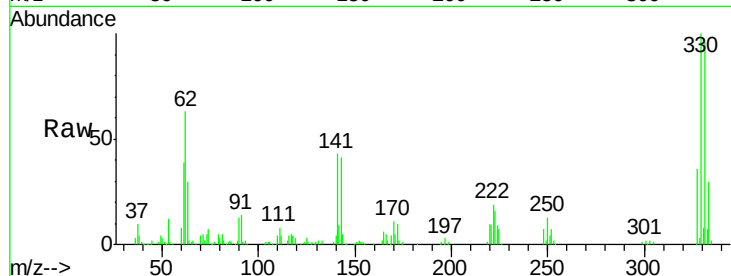
Tot Ion:330 Resp: 283573

Ion Ratio Lower Upper

330 100

332 96.9 0.0 0.0#

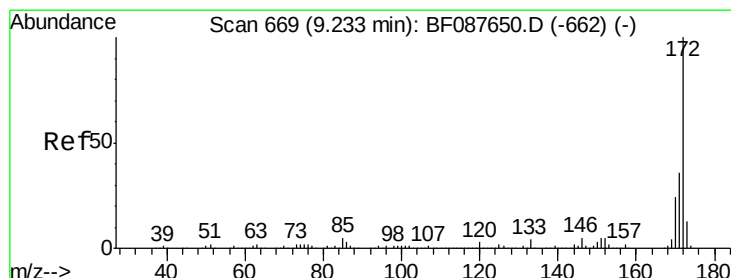
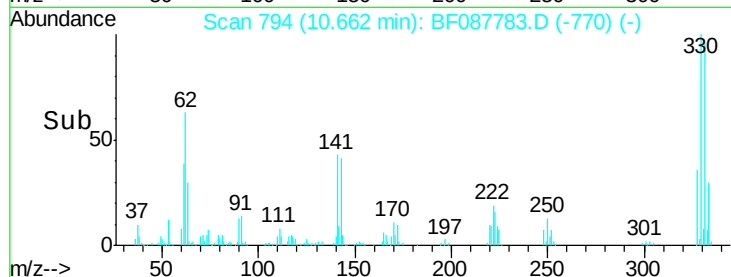
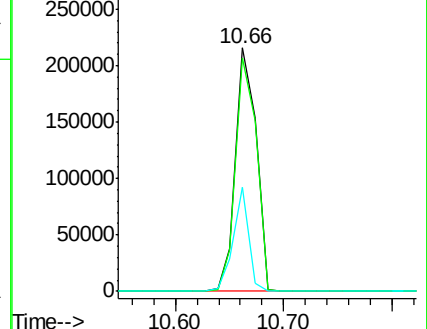
141 31.8 0.0 0.0#



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: 92.06 ng

RT: 9.20 min Scan# 666

Delta R.T. -0.03 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

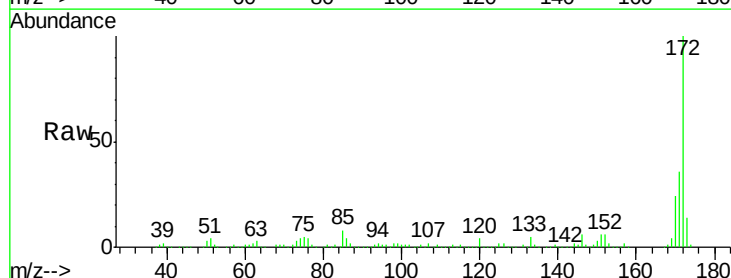
Tgt Ion:172 Resp: 1155853

Ion Ratio Lower Upper

172 100

171 36.5 28.6 43.0

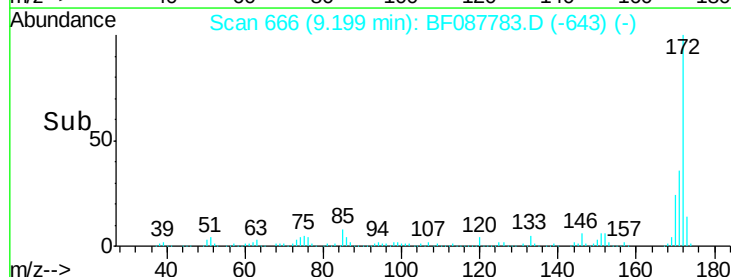
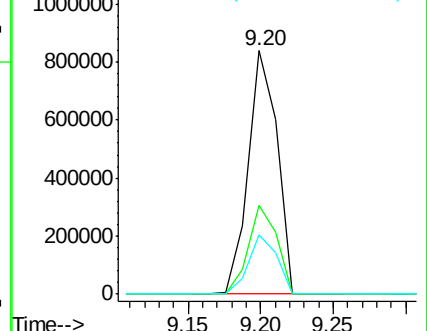
170 24.1 19.2 28.8

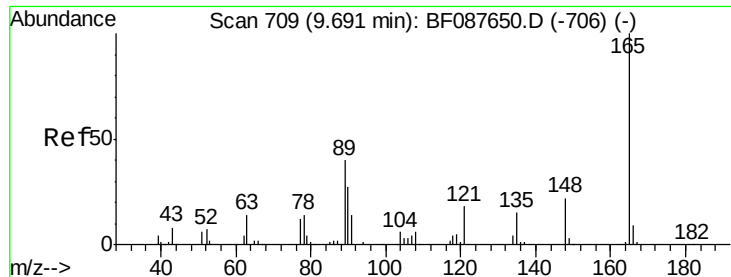


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

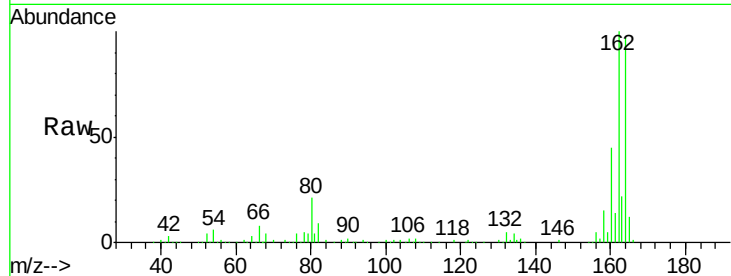




#50  
 2,6-Dinitrotoluene  
 Concen: 7.70 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. 0.18 min  
 Lab File: BF087783.D  
 Acq: 7 Jun 2016 11:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HSR-WC-49-060116

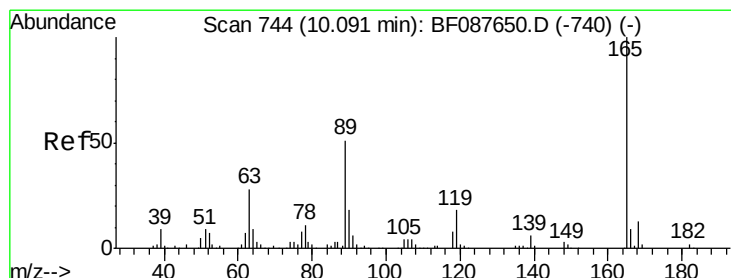
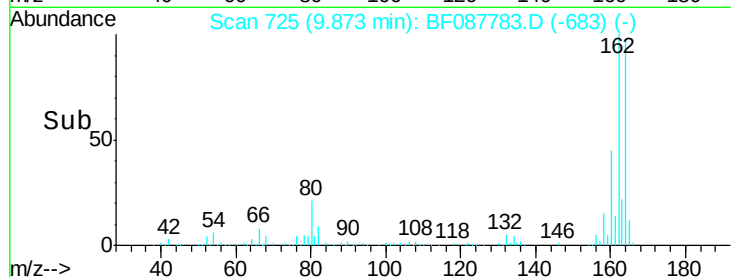
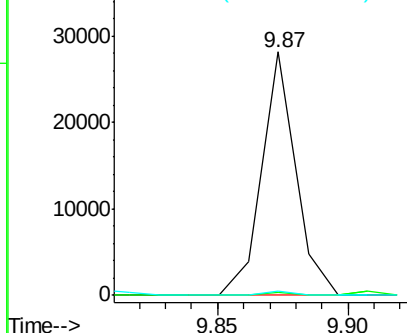
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 28.1  | 42.1# |
| 89      | 1.6   | 32.2  | 48.2# |



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: 6.04 ng  
 RT: 9.87 min Scan# 725  
 Delta R.T. -0.22 min  
 Lab File: BF087783.D  
 Acq: 7 Jun 2016 11:27

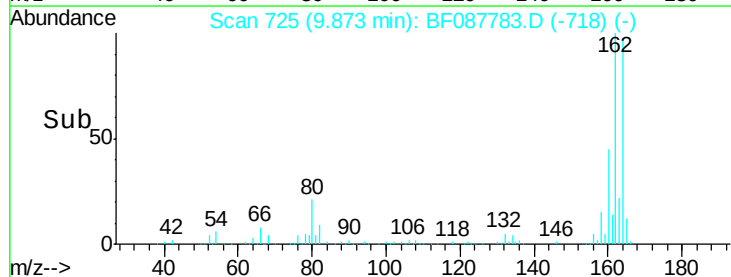
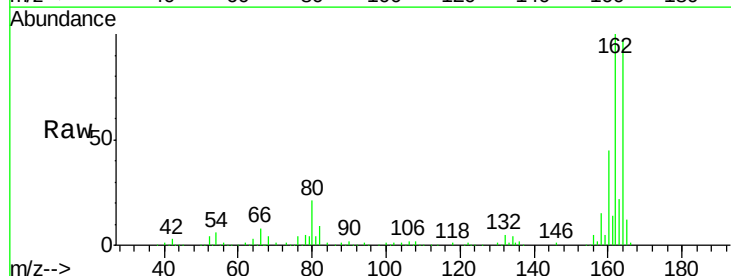
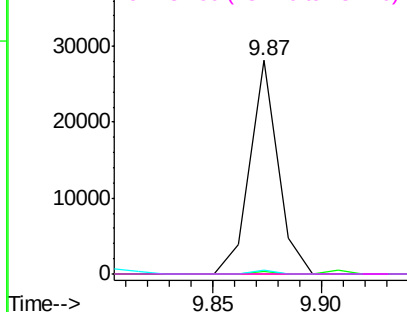
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 22.0  | 33.0# |
| 89      | 1.6   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

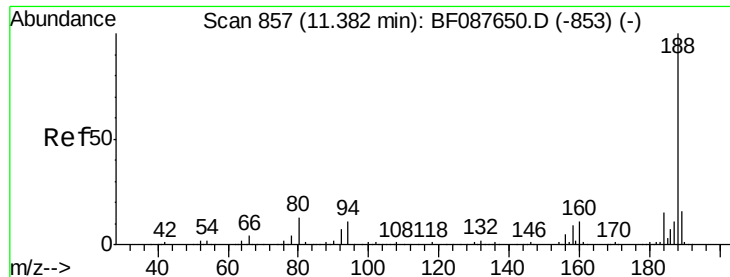
Abundance Ion 165.00 (164.70 to 165.70): E

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

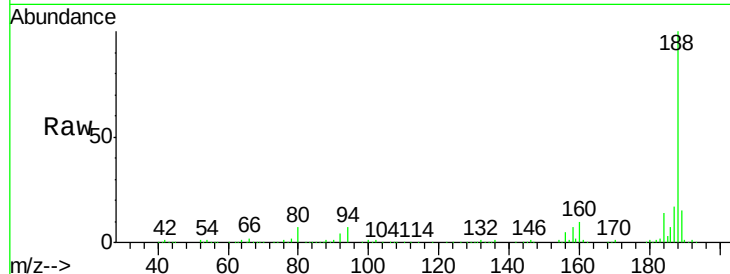




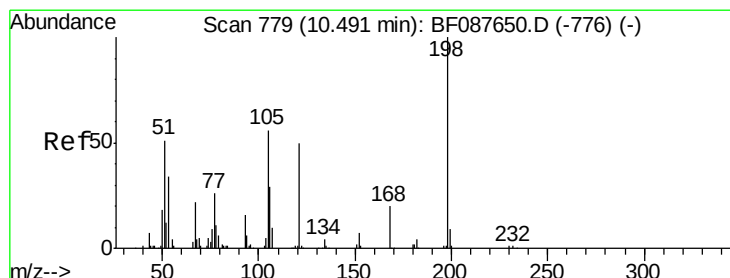
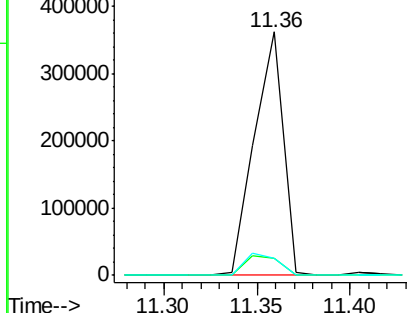
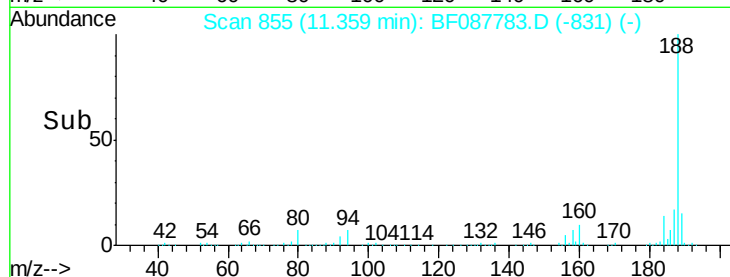
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 855  
Delta R.T. -0.02 min  
Lab File: BF087783.D  
Acq: 7 Jun 2016 11:27

Instrument :  
BNA\_F  
ClientSampleId :  
HSR-WC-49-060116

Tot Ion:188 Resp: 387453  
Ion Ratio Lower Upper  
188 100  
94 6.9 9.0 13.6#  
80 7.0 10.0 15.0#

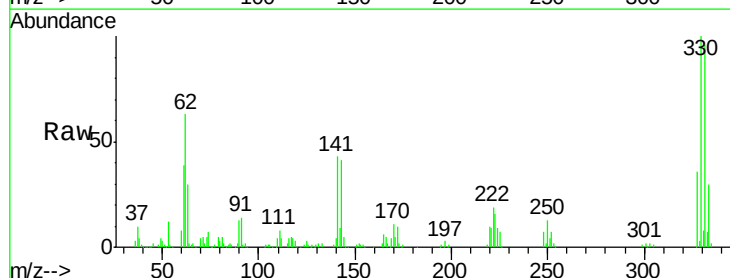


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

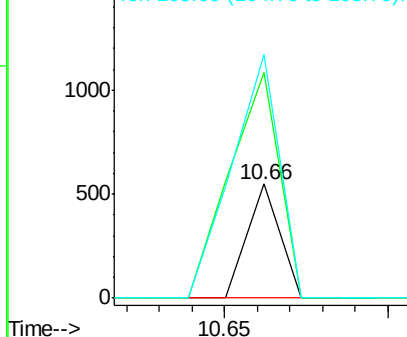
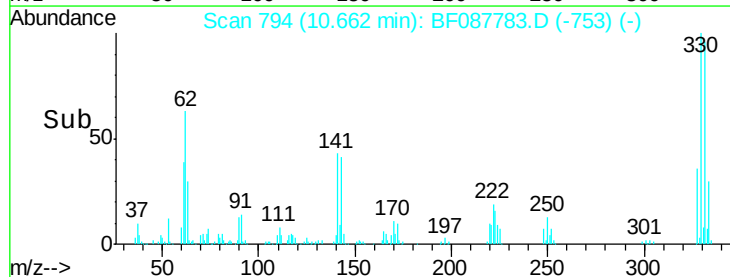


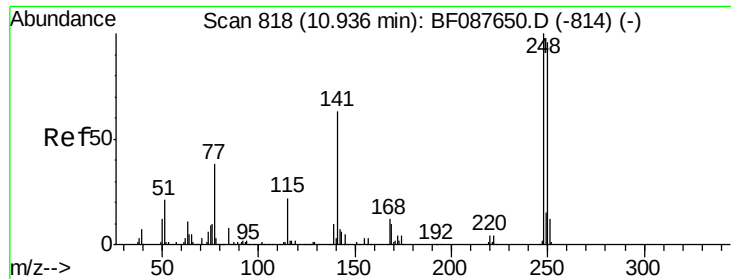
#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.18 ng  
RT: 10.66 min Scan# 794  
Delta R.T. 0.17 min  
Lab File: BF087783.D  
Acq: 7 Jun 2016 11:27

Tgt Ion:198 Resp: 375  
Ion Ratio Lower Upper  
198 100  
51 198.2 39.6 79.6#  
105 213.9 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E





#66

4-Bromophenyl-phenylether

Concen: 3.99 ng

RT: 10.66 min Scan# 794

Delta R.T. -0.27 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

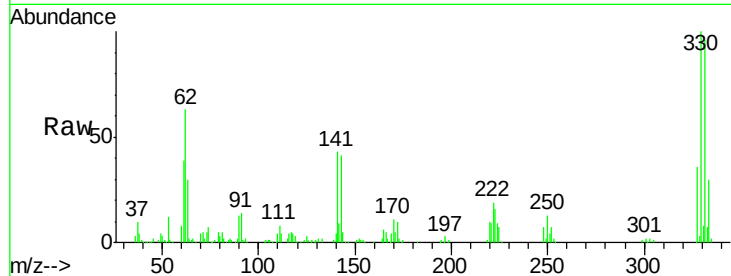
Tot Ion:248 Resp: 15334

Ion Ratio Lower Upper

248 100

250 194.1 77.1 115.7#

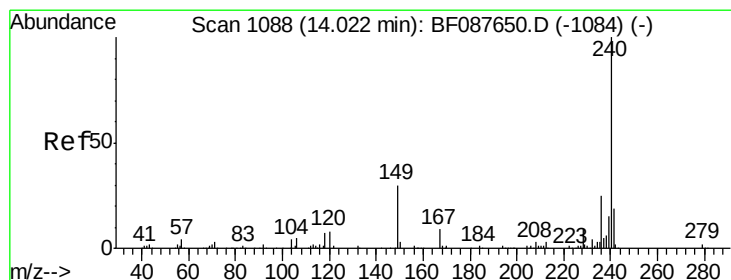
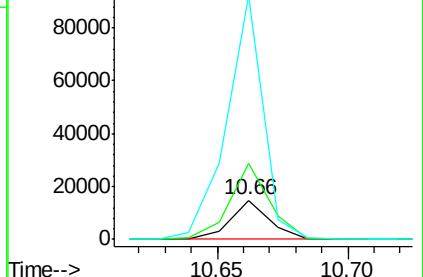
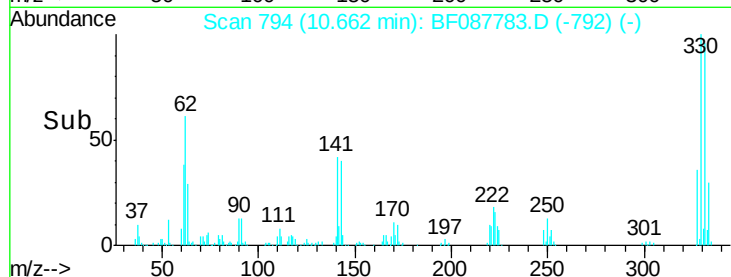
141 626.1 50.6 76.0#



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: 13.98 min Scan# 1084

Delta R.T. -0.05 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

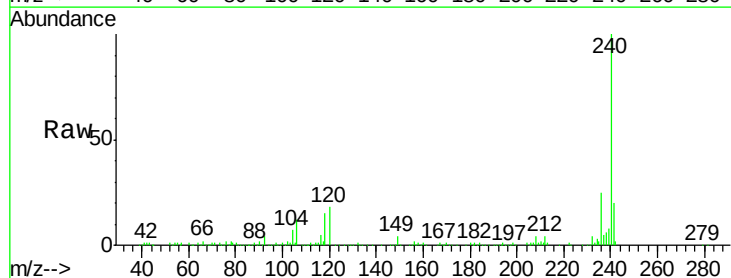
Tgt Ion:240 Resp: 297979

Ion Ratio Lower Upper

240 100

120 17.7 6.8 10.2#

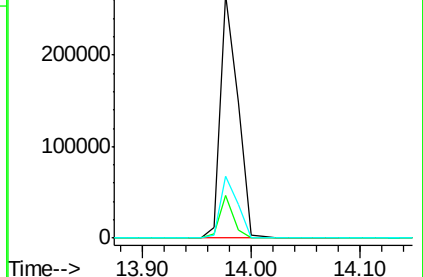
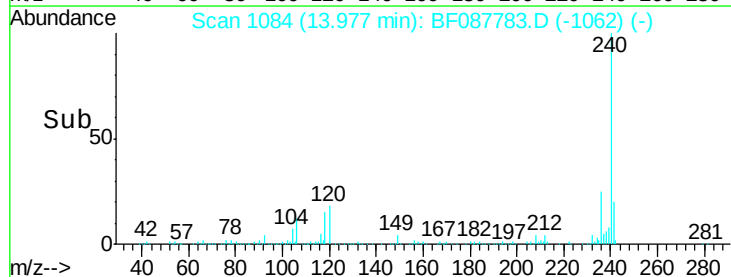
236 25.2 20.2 30.2

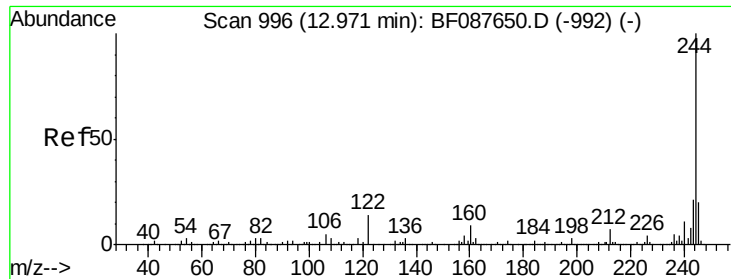


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 96.24 ng

RT: 12.95 min Scan# 994

Delta R.T. -0.02 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

Instrument :

BNA\_F

ClientSampleId :

HSR-WC-49-060116

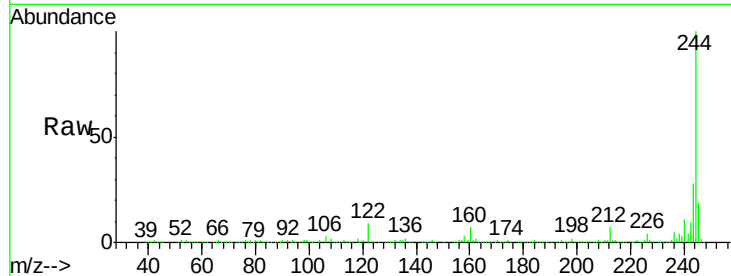
Tot Ion:244 Resp: 1175281

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

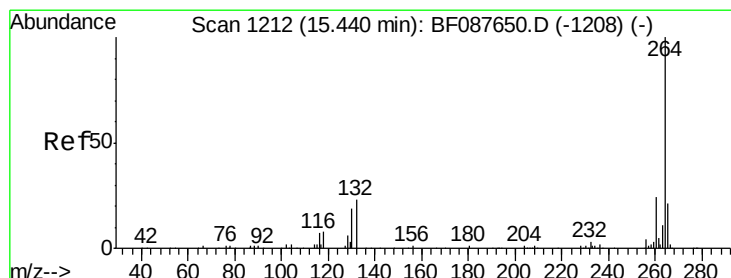
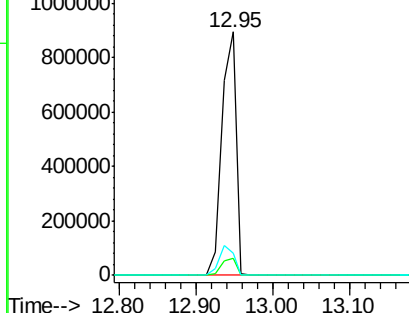
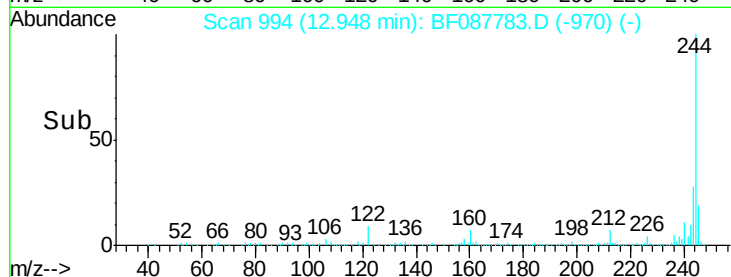
122 8.9 11.2 16.8#



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: 15.39 min Scan# 1208

Delta R.T. -0.05 min

Lab File: BF087783.D

Acq: 7 Jun 2016 11:27

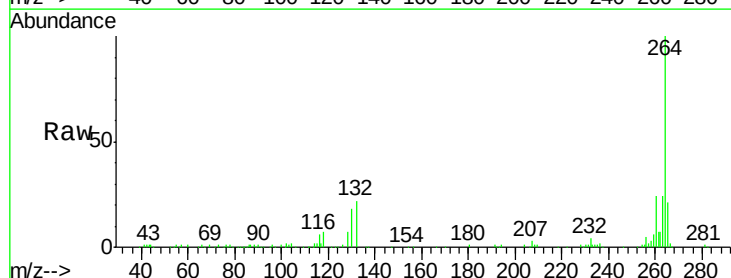
Tgt Ion:264 Resp: 147962

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

265 21.0 16.9 25.3



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

