

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\  
 Data File : BF087389.D  
 Acq On : 26 May 2016 1:21  
 Operator : UM/SJ  
 Sample : H3212-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DAY-1

Quant Time: May 26 04:30:32 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 25 16:26:52 2016  
 Response via : Initial Calibration

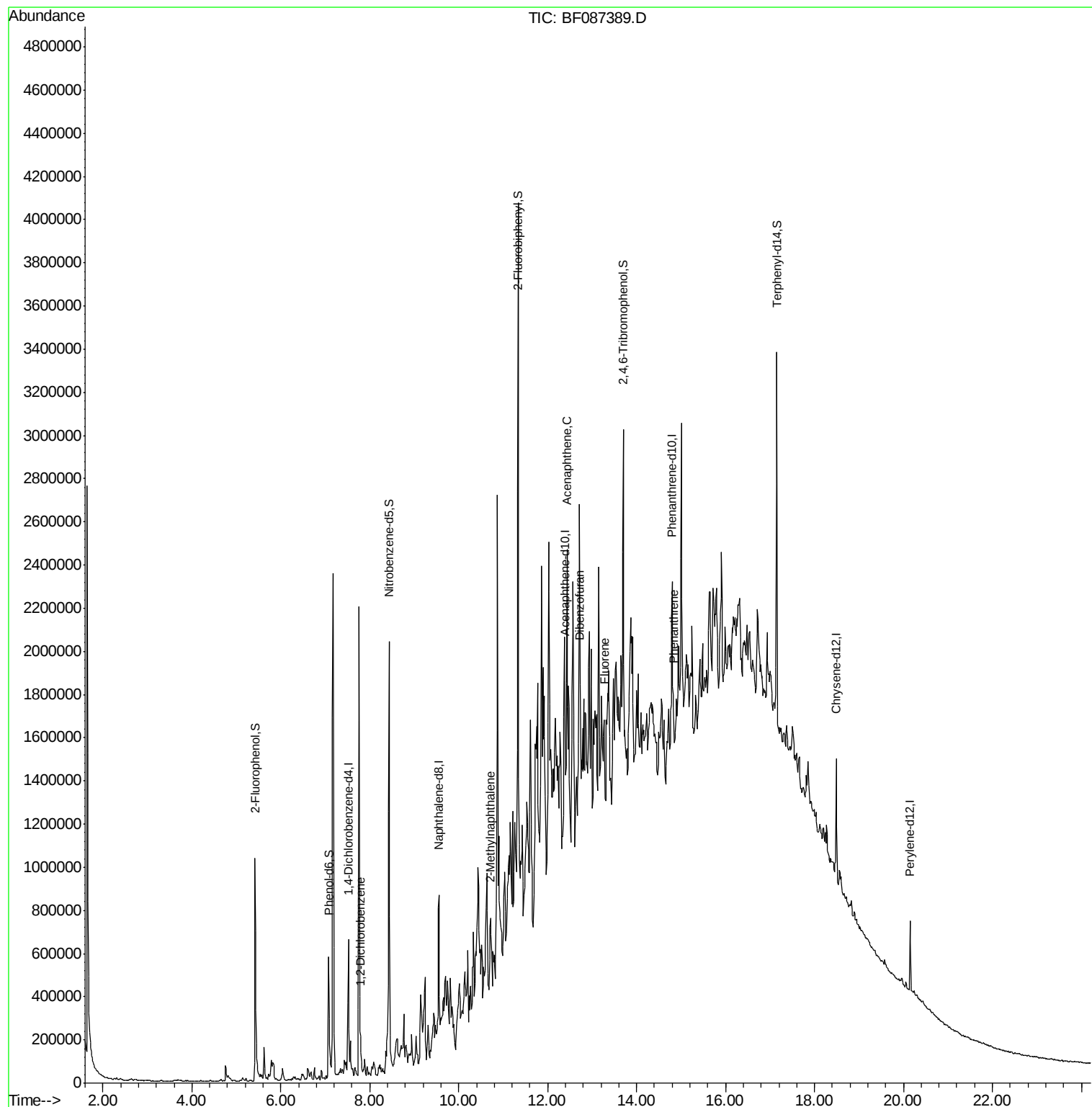
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.52  | 152  | 113684   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 9.55  | 136  | 429875   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 12.39 | 164  | 204687   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 14.80 | 188  | 273773   | 20.00  | ng    | 0.02     |
| 75) Chrysene-d12            | 18.49 | 240  | 231870   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 20.15 | 264  | 156514   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 446844   | 69.07  | ng    | 0.00     |
| 7) Phenol-d6                | 7.07  | 99   | 388405   | 44.43  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.43  | 82   | 795474   | 93.26  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 13.70 | 330  | 242502   | 123.29 | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 11.34 | 172  | 1230503  | 84.75  | ng    | 0.00     |
| 78) Terphenyl-d14           | 17.15 | 244  | 730370   | 66.97  | ng    | 0.02     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 14) 1,2-Dichlorobenzene     | 7.78  | 146  | 19282    | 2.31   | ng    | 96       |
| 37) 2-Methylnaphthalene     | 10.71 | 142  | 31593    | 2.35   | ng    | # 86     |
| 51) Acenaphthene            | 12.43 | 154  | 41886    | 3.26   | ng    | 93       |
| 54) Dibenzofuran            | 12.73 | 168  | 59643    | 3.43   | ng    | # 76     |
| 57) Fluorene                | 13.28 | 166  | 86609    | 5.75   | ng    | # 95     |
| 70) Phenanthrene            | 14.83 | 178  | 80135    | 5.28   | ng    | # 83     |

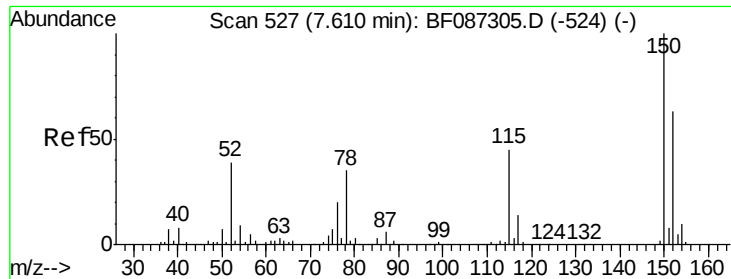
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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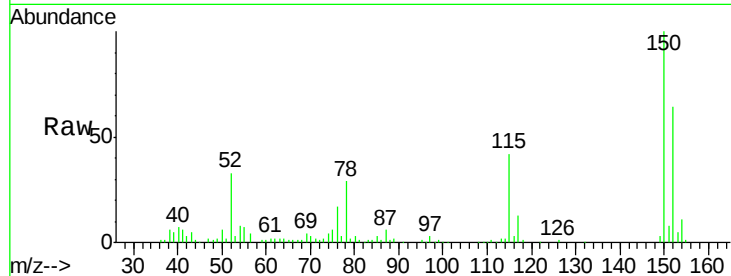


#1

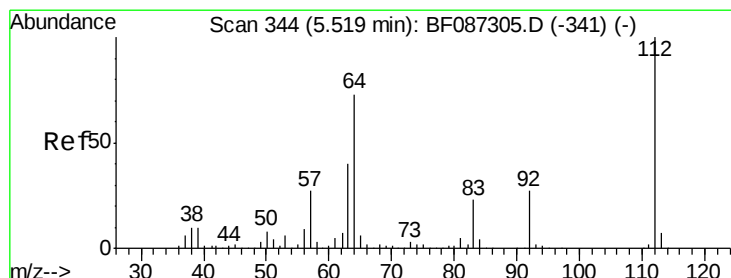
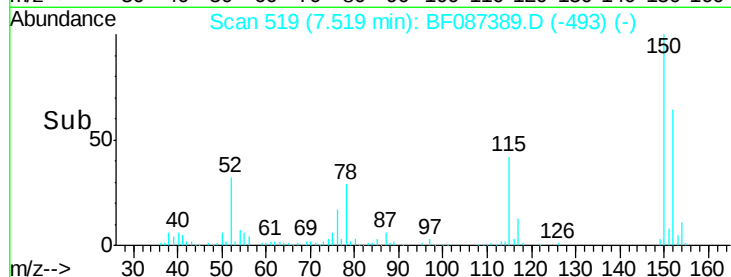
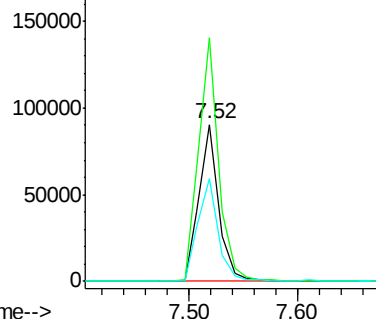
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.52 min Scan# 519  
Delta R.T. 0.00 min  
Lab File: BF087389.D  
Acq: 26 May 2016 1:21

Instrument :  
BNA\_F  
ClientSampleId :  
DAY-1

Tot Ion:152 Resp: 113684  
Ion Ratio Lower Upper  
152 100  
150 155.2 125.8 188.6  
115 65.5 51.5 77.3



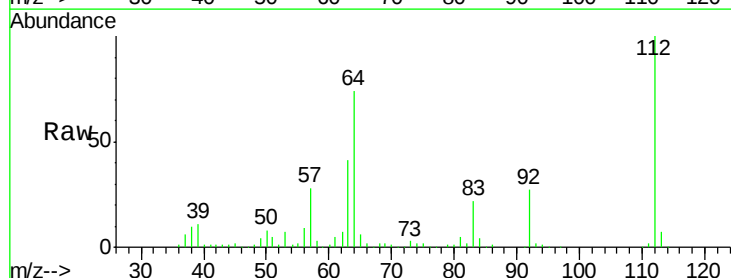
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



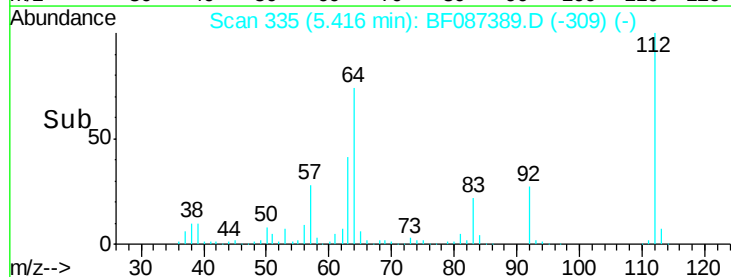
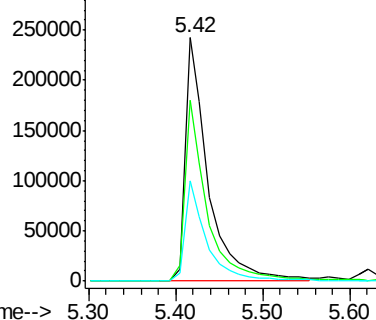
#5

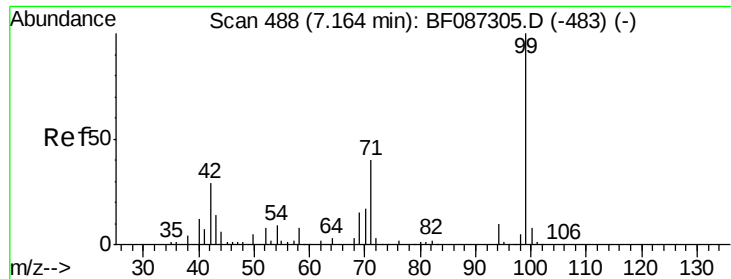
2-Fluorophenol  
Concen: 69.07 ng  
RT: 5.42 min Scan# 335  
Delta R.T. 0.00 min  
Lab File: BF087389.D  
Acq: 26 May 2016 1:21

Tgt Ion:112 Resp: 446844  
Ion Ratio Lower Upper  
112 100  
64 74.2 52.1 78.1  
63 41.2 25.7 38.5#



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: 44.43 ng

RT: 7.07 min Scan# 480

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampleId :

DAY-1

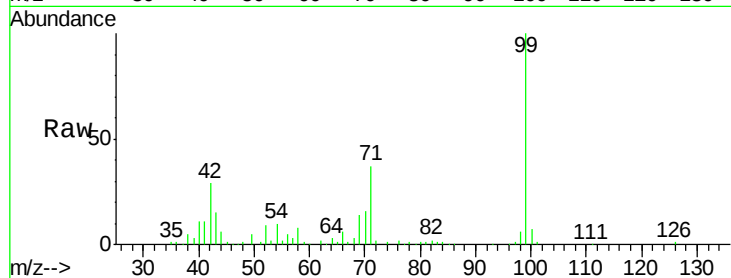
Tot Ion: 99 Resp: 388405

Ion Ratio Lower Upper

99 100

42 28.9 13.6 20.4#

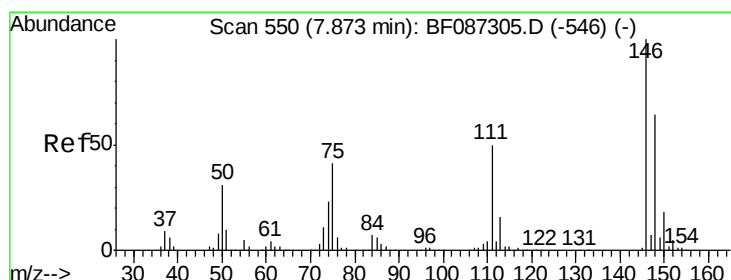
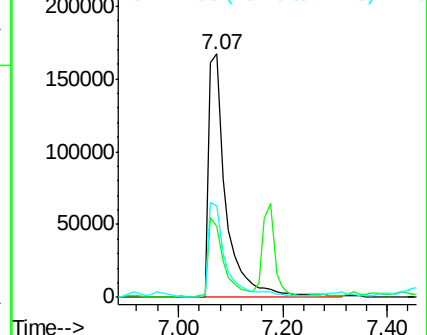
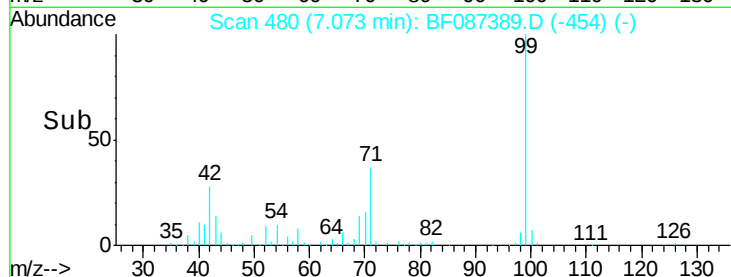
71 37.3 24.6 36.8#



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



#14

1,2-Dichlorobenzene

Concen: 2.31 ng

RT: 7.78 min Scan# 542

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

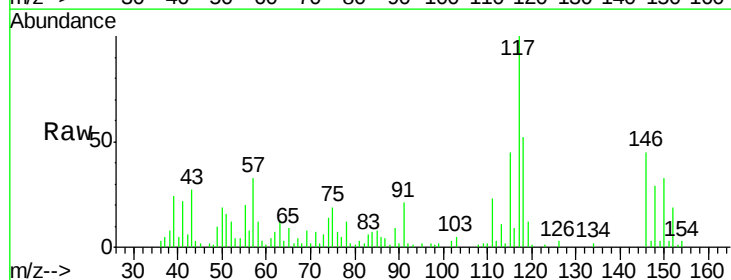
Tgt Ion: 146 Resp: 19282

Ion Ratio Lower Upper

146 100

148 65.1 51.0 76.6

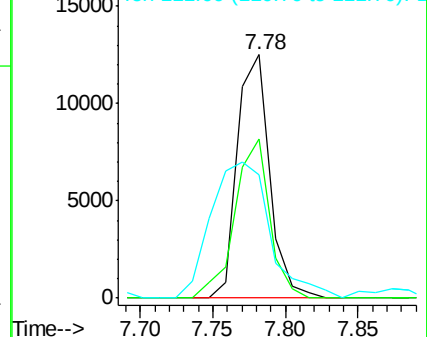
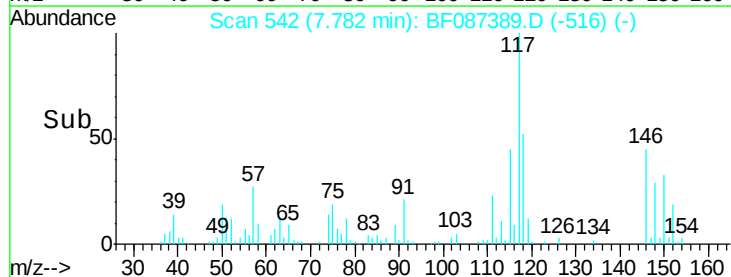
111 50.4 36.2 54.4

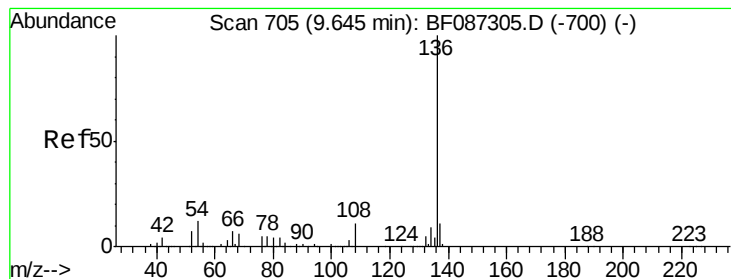


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.55 min Scan# 697

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampleId :

DAY-1

Tot Ion:136 Resp: 429875

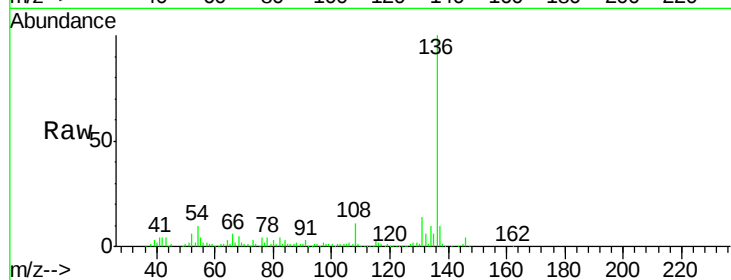
Ion Ratio Lower Upper

136 100

137 10.4 8.8 13.2

54 9.5 5.0 7.4#

68 5.2 4.4 6.6

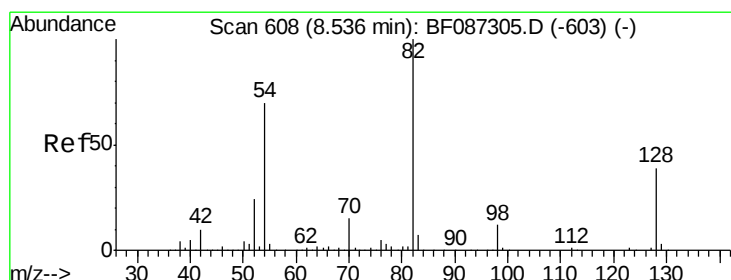
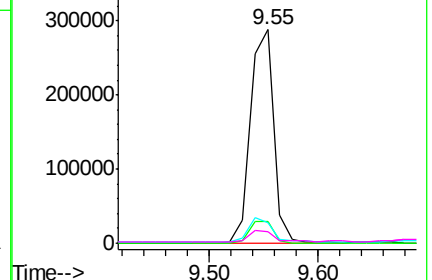
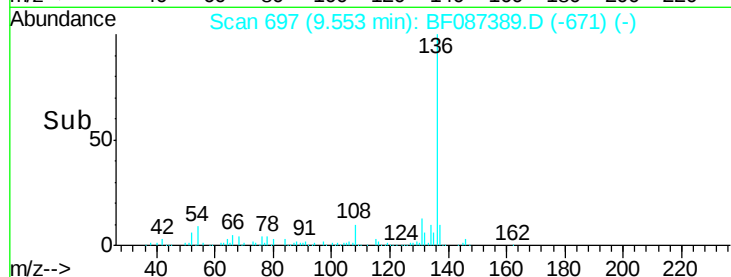


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 93.26 ng

RT: 8.43 min Scan# 599

Delta R.T. -0.01 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

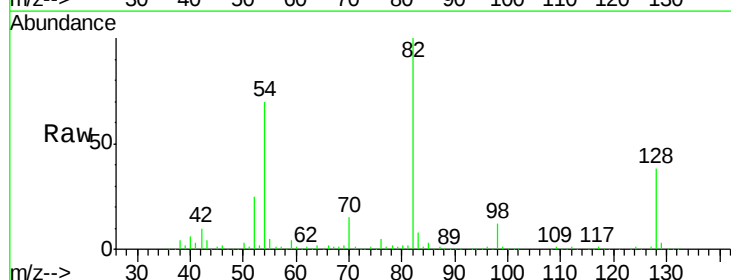
Tgt Ion: 82 Resp: 795474

Ion Ratio Lower Upper

82 100

128 38.1 40.6 61.0#

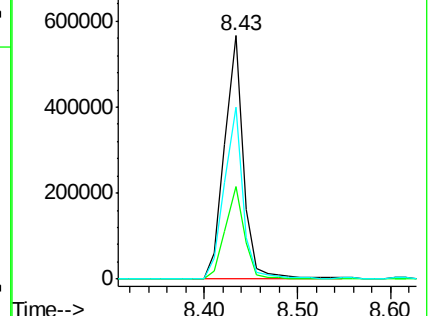
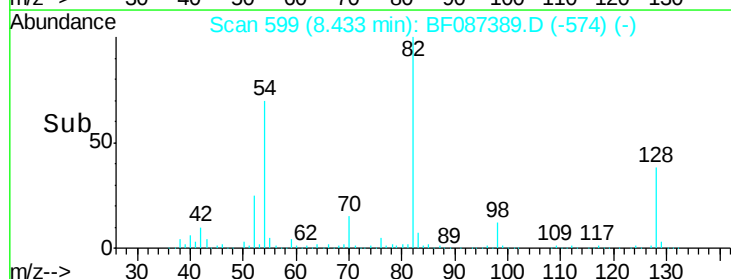
54 70.4 38.1 57.1#

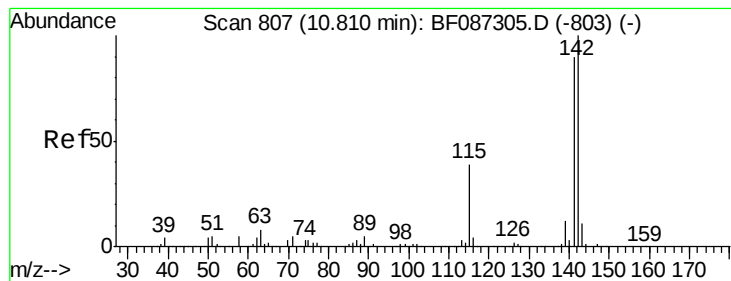


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#37

2-Methylnaphthalene

Concen: 2.35 ng

RT: 10.71 min Scan# 798

Delta R.T. -0.01 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampled :

DAY-1

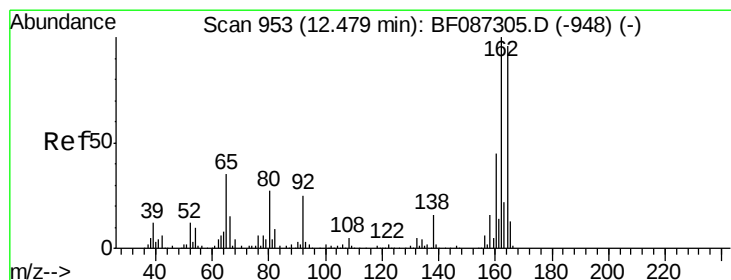
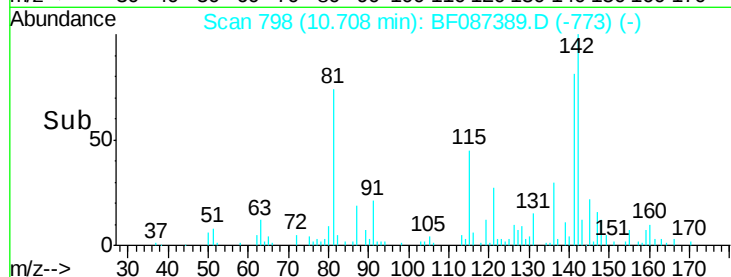
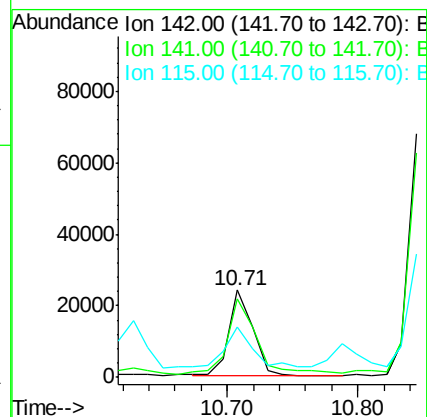
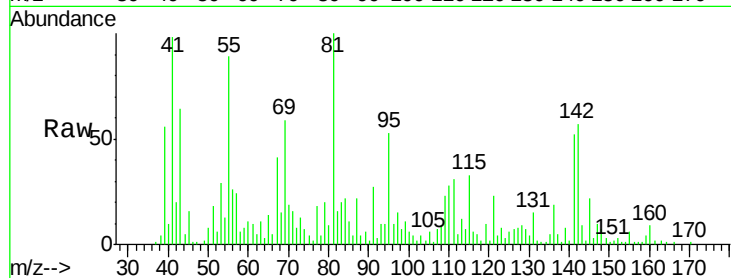
Tot Ion:142 Resp: 31593

Ion Ratio Lower Upper

142 100

141 90.8 71.0 106.6

115 58.4 26.6 39.8#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.39 min Scan# 945

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

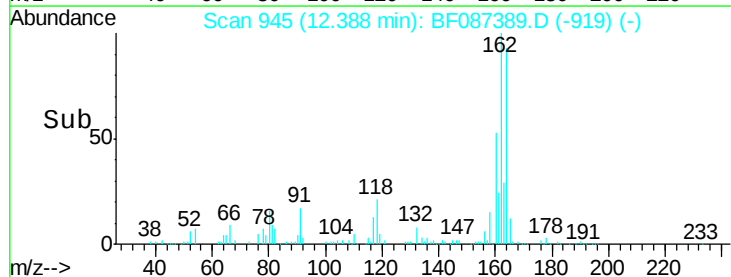
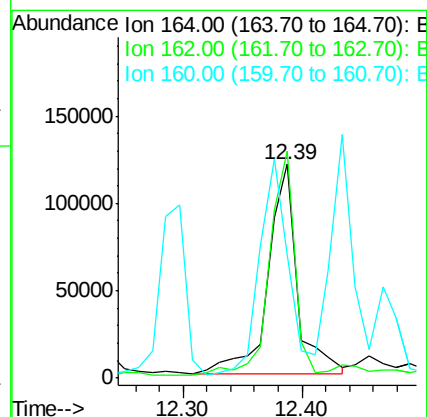
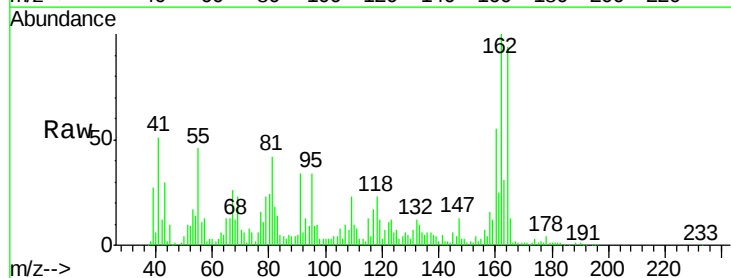
Tgt Ion:164 Resp: 204687

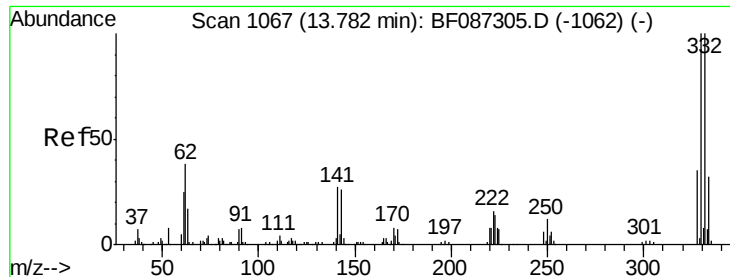
Ion Ratio Lower Upper

164 100

162 106.0 82.8 124.2

160 57.9 36.9 55.3#

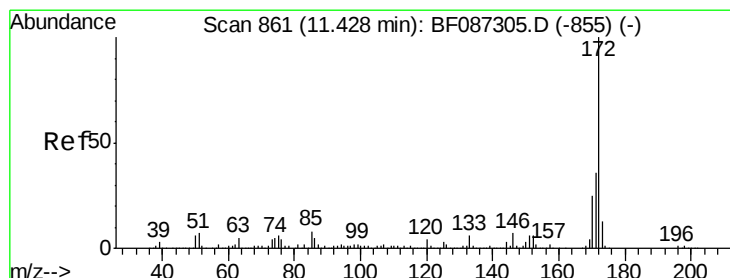
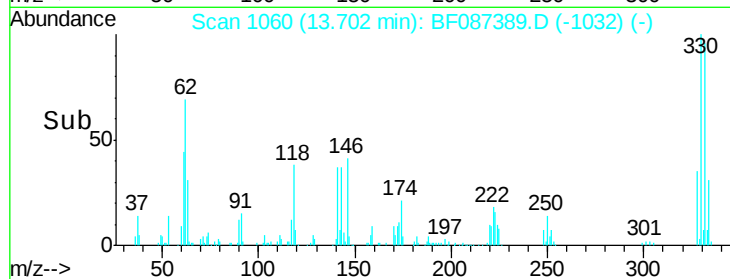
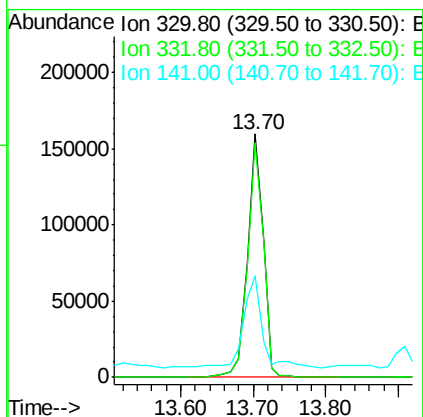
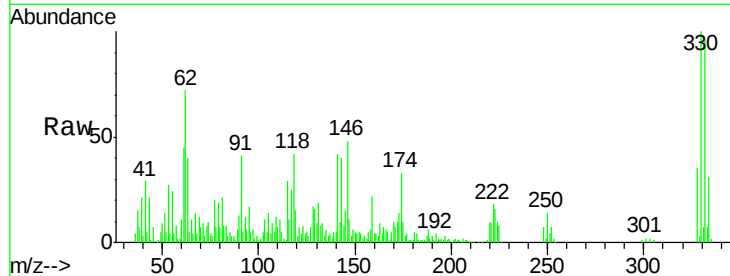




#41  
 2,4,6-Tribromophenol  
 Concen: 123.29 ng  
 RT: 13.70 min Scan# 1060  
 Delta R.T. 0.02 min  
 Lab File: BF087389.D  
 Acq: 26 May 2016 1:21

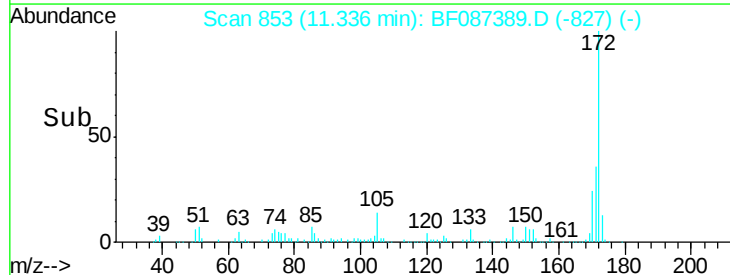
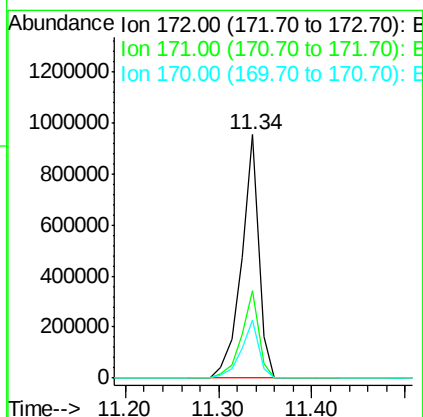
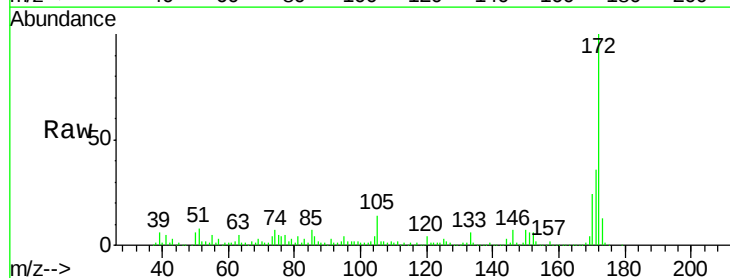
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DAY-1

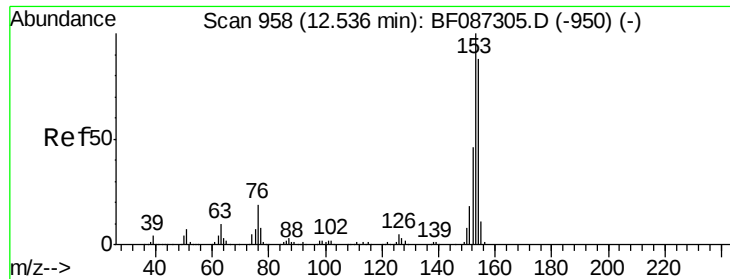
Tot Ion:330 Resp: 242502  
 Ion Ratio Lower Upper  
 330 100  
 332 97.2 79.0 118.4  
 141 44.8 31.2 46.8



#44  
 2-Fluorobiphenyl  
 Concen: 84.75 ng  
 RT: 11.34 min Scan# 853  
 Delta R.T. 0.00 min  
 Lab File: BF087389.D  
 Acq: 26 May 2016 1:21

Tgt Ion:172 Resp: 1230503  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.0 43.6  
 170 23.9 19.8 29.8





#51

Acenaphthene

Concen: 3.26 ng

RT: 12.43 min Scan# 949

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampleId :

DAY-1

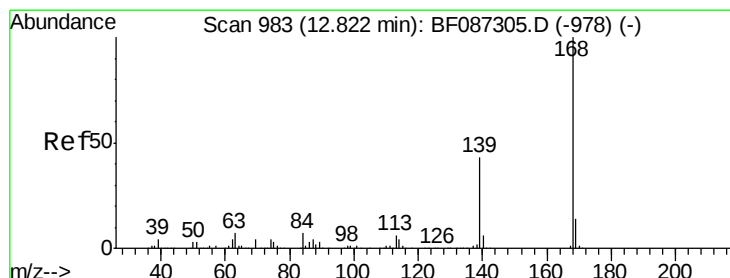
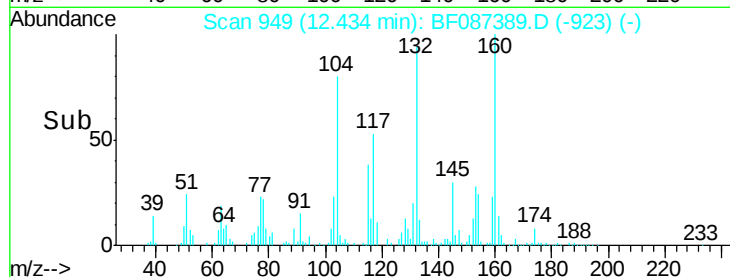
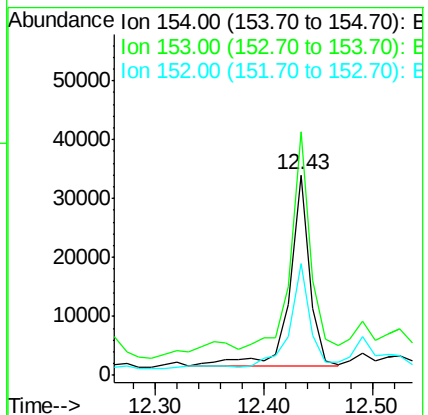
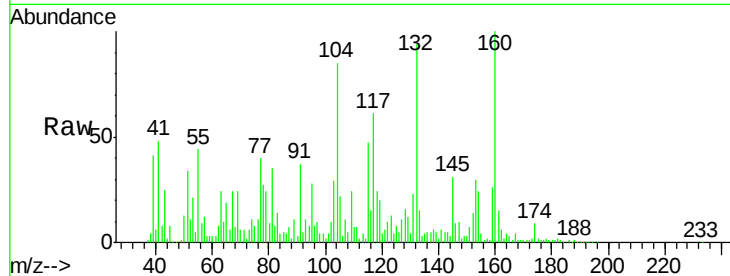
Tot Ion:154 Resp: 41886

Ion Ratio Lower Upper

154 100

153 121.6 89.8 134.6

152 55.6 43.4 65.0



#54

Dibenzofuran

Concen: 3.43 ng

RT: 12.73 min Scan# 975

Delta R.T. 0.01 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

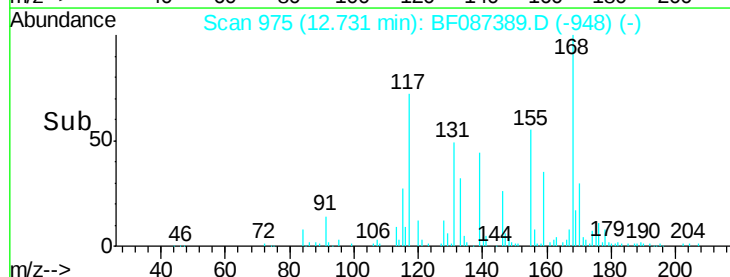
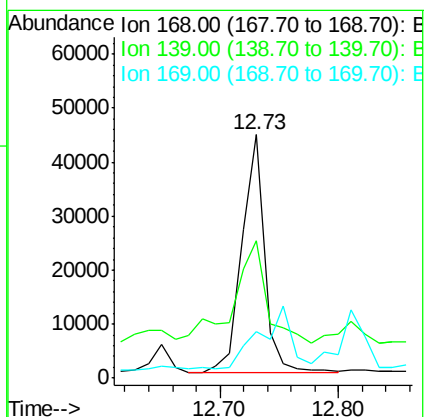
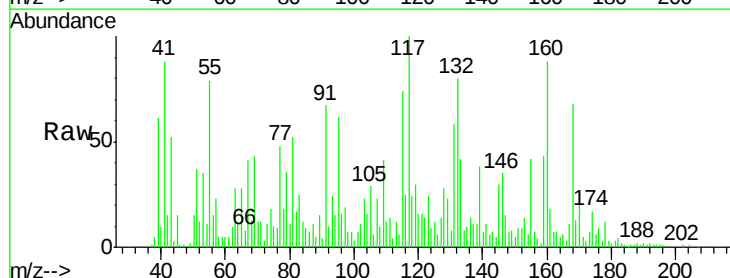
Tgt Ion:168 Resp: 59643

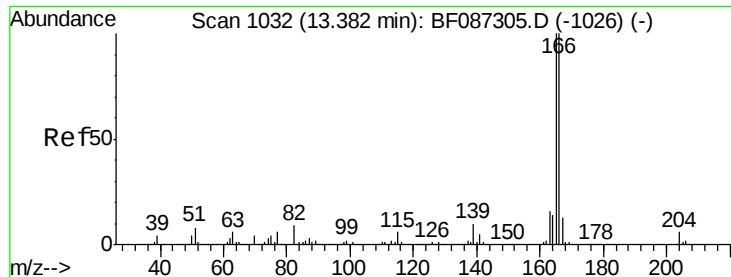
Ion Ratio Lower Upper

168 100

139 56.3 31.4 47.0#

169 18.9 10.7 16.1#





#57

Fluorene

Concen: 5.75 ng

RT: 13.28 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampled :

DAY-1

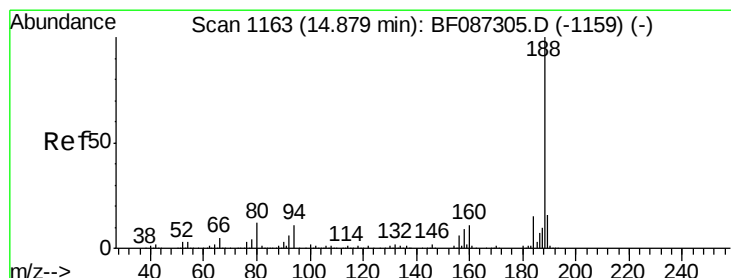
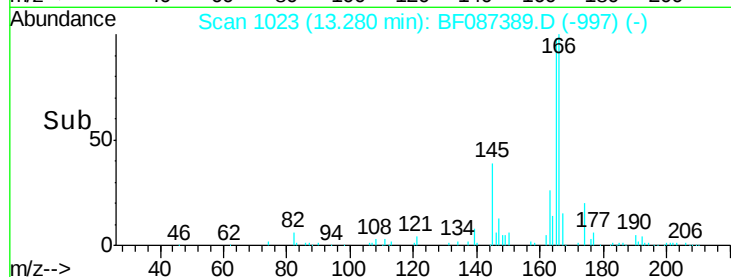
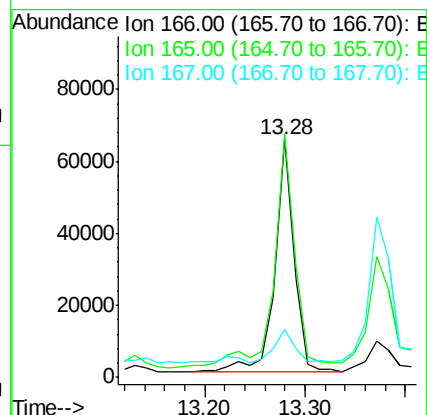
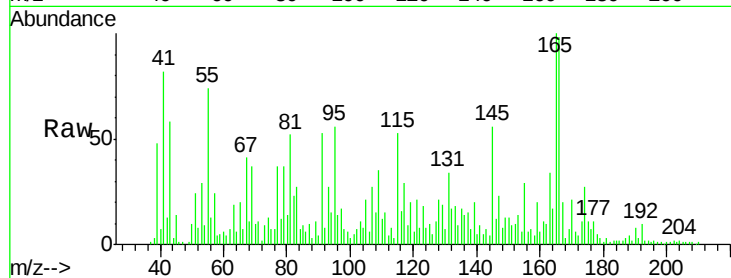
Tot Ion:166 Resp: 86609

Ion Ratio Lower Upper

166 100

165 102.2 79.0 118.6

167 20.3 10.6 15.8#



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.80 min Scan# 1156

Delta R.T. 0.02 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

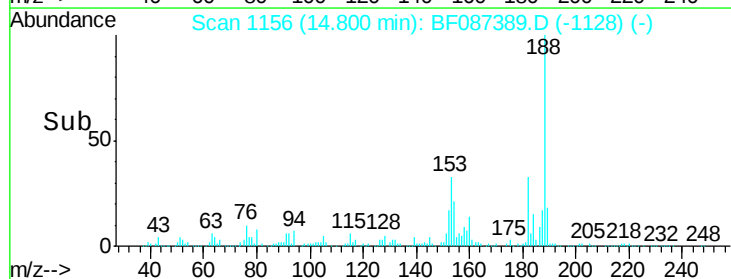
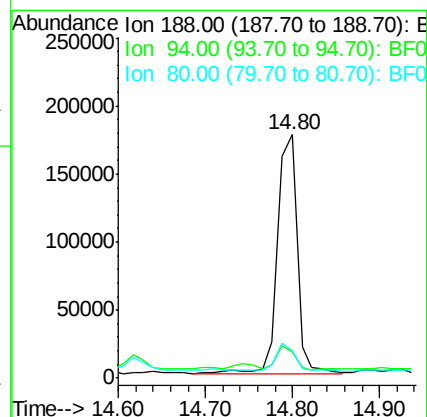
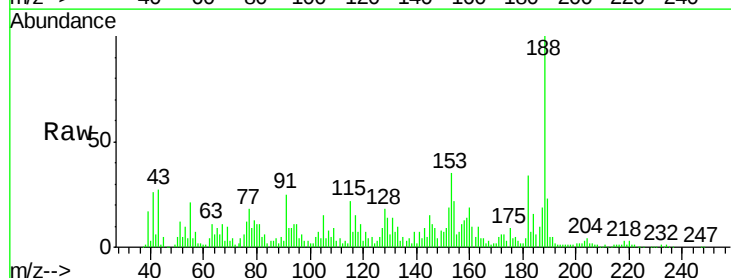
Tgt Ion:188 Resp: 273773

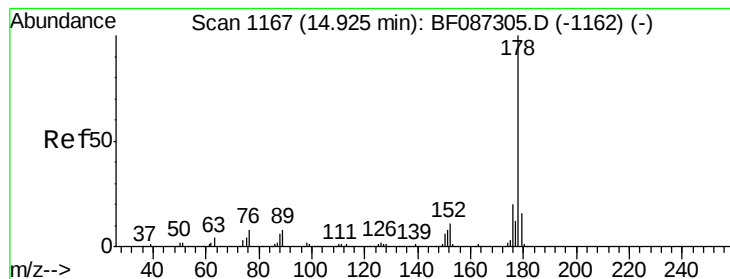
Ion Ratio Lower Upper

188 100

94 10.8 6.8 10.2#

80 11.3 7.1 10.7#





#70

Phenanthrene

Concen: 5.28 ng

RT: 14.83 min Scan# 1159

Delta R.T. 0.01 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

Instrument :

BNA\_F

ClientSampleId :

DAY-1

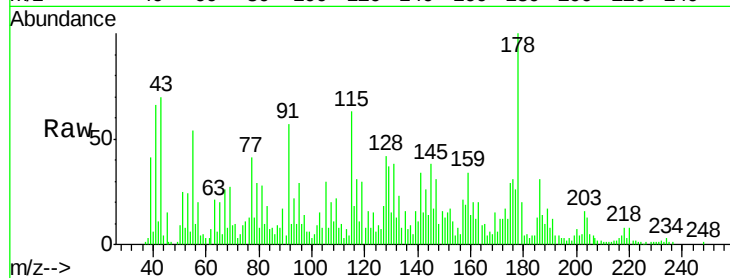
Tot Ion:178 Resp: 80135

Ion Ratio Lower Upper

178 100

176 30.7 16.0 24.0#

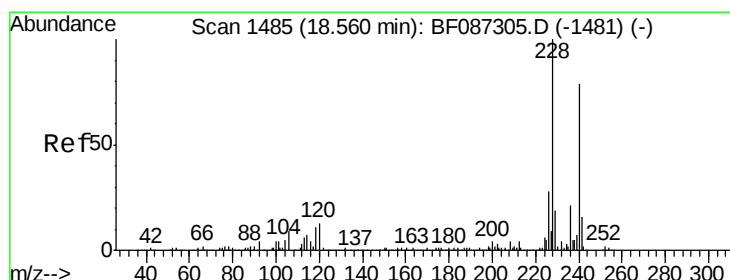
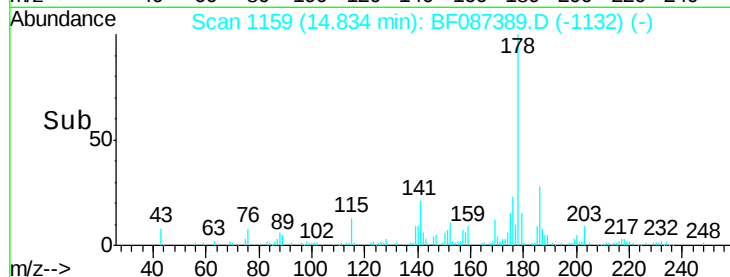
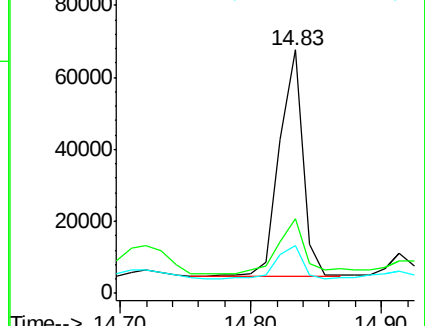
179 19.5 12.6 18.8#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.49 min Scan# 1479

Delta R.T. 0.01 min

Lab File: BF087389.D

Acq: 26 May 2016 1:21

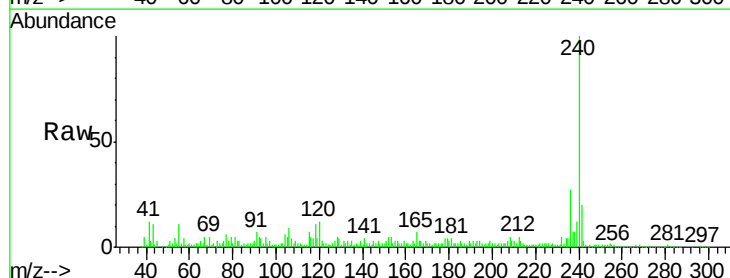
Tgt Ion:240 Resp: 231870

Ion Ratio Lower Upper

240 100

120 12.5 11.2 16.8

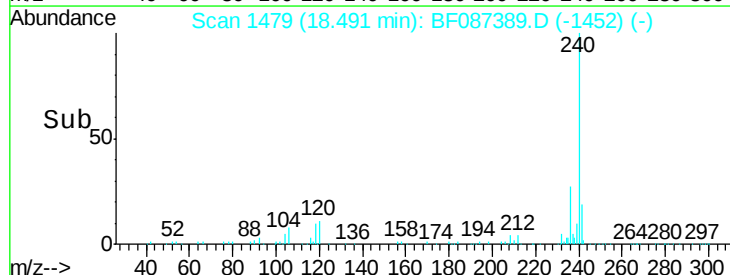
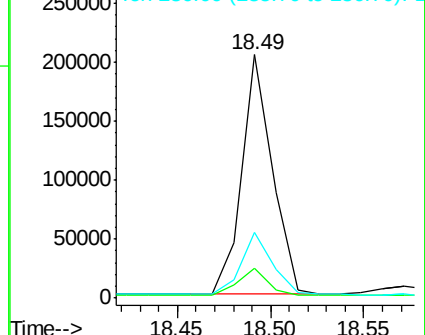
236 27.2 21.2 31.8

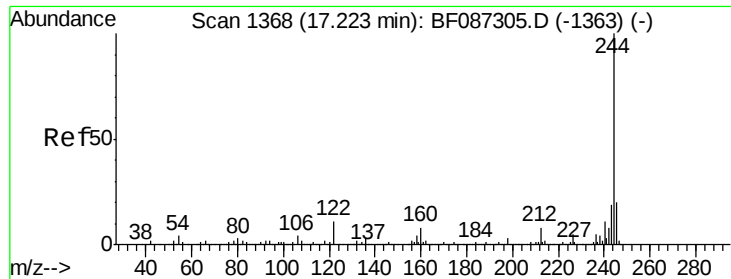


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

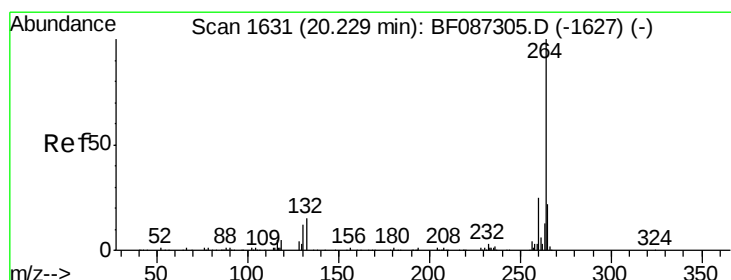
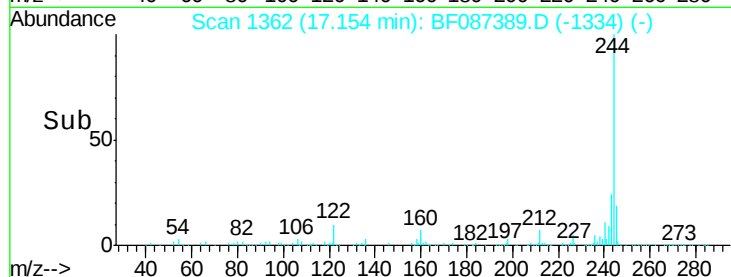
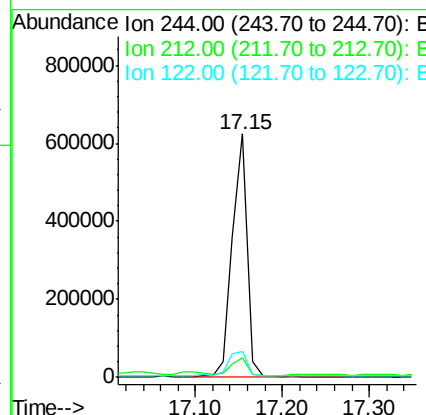
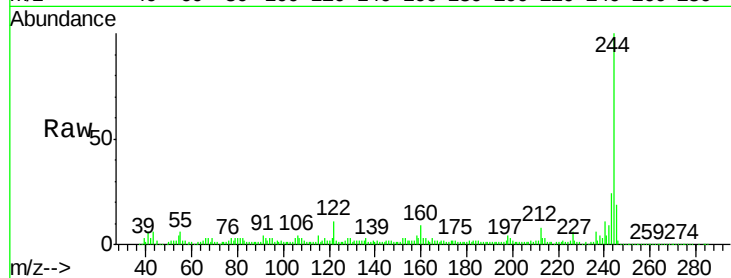




#78  
 Terphenyl-d14  
 Concen: 66.97 ng  
 RT: 17.15 min Scan# 1362  
 Delta R.T. 0.02 min  
 Lab File: BF087389.D  
 Acq: 26 May 2016 1:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DAY-1

Tot Ion:244 Resp: 730370  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.2 9.2  
 122 10.8 12.0 18.0#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.15 min Scan# 1624  
 Delta R.T. 0.01 min  
 Lab File: BF087389.D  
 Acq: 26 May 2016 1:21

Tgt Ion:264 Resp: 156514  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.5 29.3  
 265 22.0 17.3 25.9

