

Data Path : Z:\HPCHEM1\BNA F\Data\BF031716\  
 Data File : BF085532.D  
 Acq On : 18 Mar 2016 12:01  
 Operator : UM/SJ  
 Sample : H1730-04RE  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 18 11:27:44 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 15 18:57:05 2016  
 Response via : Initial Calibration

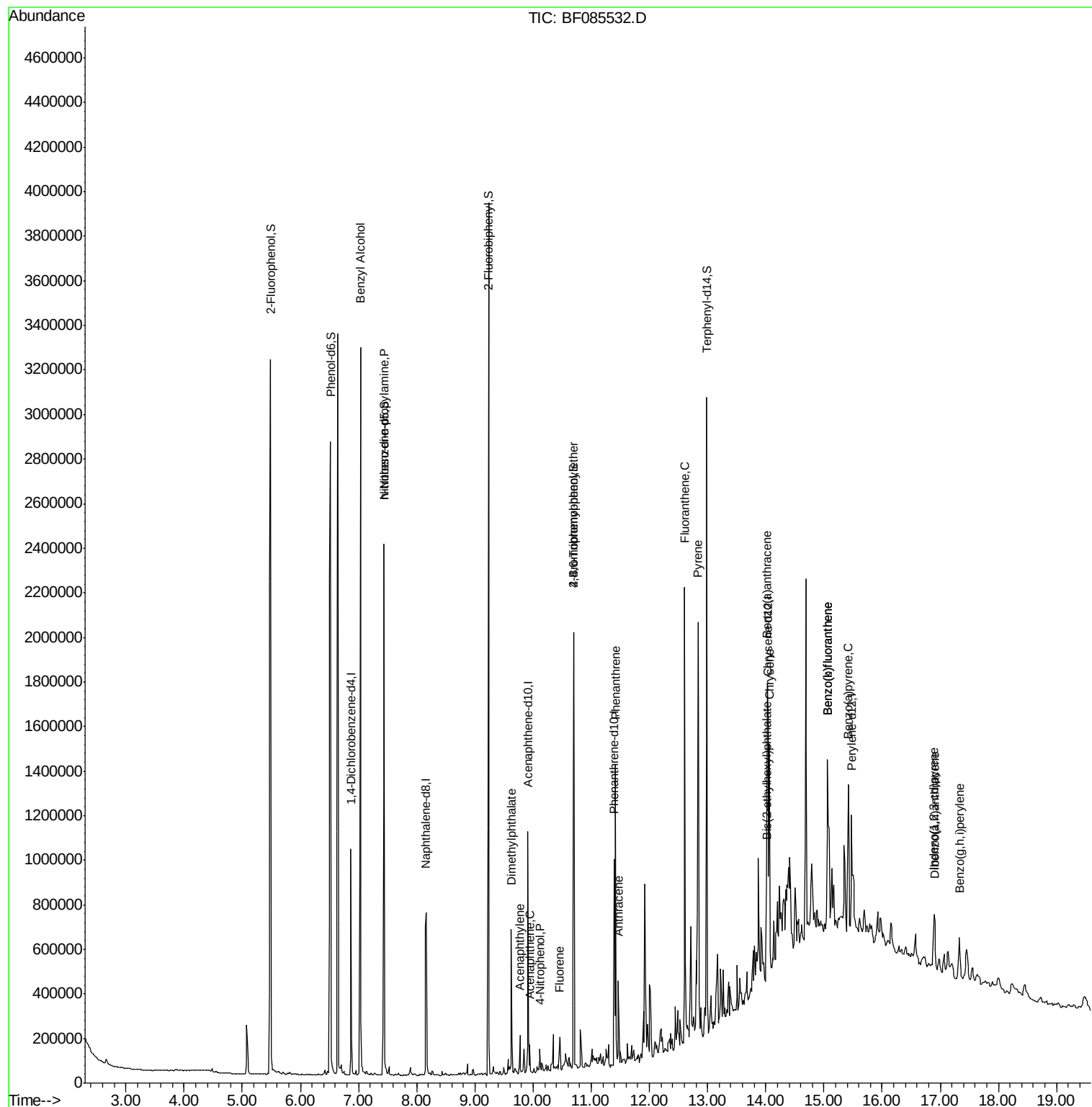
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 146052   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 8.16  | 136  | 498675   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.91  | 164  | 198485   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.40 | 188  | 330658   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 14.04 | 240  | 288573   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12               | 15.48 | 264  | 232593   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 1254698  | 147.67 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.52  | 99   | 1592806  | 144.52 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 978713   | 116.04 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 217628   | 119.04 | ng    | -0.06    |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 1195600  | 104.50 | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.99 | 244  | 1003325  | 78.65  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 15) Benzyl Alcohol             | 7.03  | 79   | 16247    | 2.06   | ng    | # 46     |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 130872   | 19.83  | ng    | # 75     |
| 48) Acenaphthylene             | 9.77  | 152  | 71881    | 3.66   | ng    | 96       |
| 49) Dimethylphthalate          | 9.62  | 163  | 230524   | 15.92  | ng    | 99       |
| 51) Acenaphthene               | 9.94  | 154  | 27085    | 2.19   | ng    | 97       |
| 55) 4-Nitrophenol              | 10.12 | 139  | 10081    | 3.83   | ng    | # 23     |
| 57) Fluorene                   | 10.46 | 166  | 47710    | 3.94   | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 15812    | 4.73   | ng    | # 1      |
| 70) Phenanthrene               | 11.42 | 178  | 464771   | 26.99  | ng    | 97       |
| 71) Anthracene                 | 11.46 | 178  | 187627   | 10.70  | ng    | 98       |
| 74) Fluoranthene               | 12.61 | 202  | 782017   | 48.30  | ng    | 98       |
| 77) Pvrene                     | 12.84 | 202  | 763138   | 35.26  | ng    | 99       |
| 80) Benzo(a)anthracene         | 14.03 | 228  | 519174   | 31.38  | ng    | 98       |
| 82) Chrysene                   | 14.06 | 228  | 324820   | 21.83  | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 14.01 | 149  | 34993    | 3.03   | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.89 | 276  | 163410   | 11.58  | ng    | 93       |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 595573   | 39.21  | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.07 | 252  | 595573   | 50.06  | ng    | 98       |
| 89) Benzo(a)pvrene             | 15.42 | 252  | 316701   | 24.13  | ng    | # 97     |
| 90) Dibenzo(a,h)anthracene     | 16.91 | 278  | 43392    | 3.38   | ng    | # 88     |
| 91) Benzo(g,h,i)perylene       | 17.33 | 276  | 152597   | 11.65  | ng    | 97       |

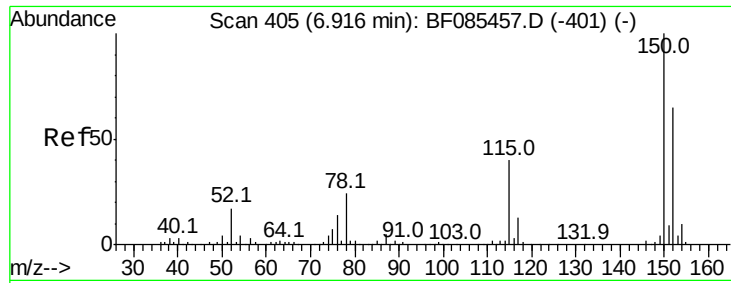
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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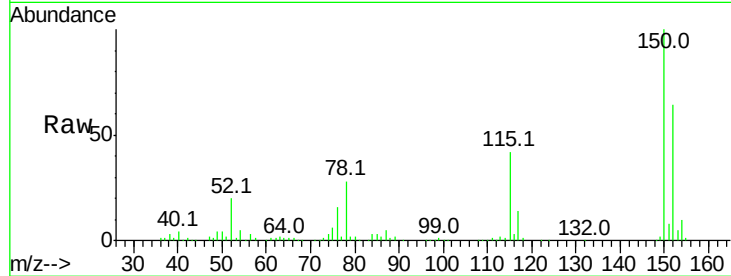


#1

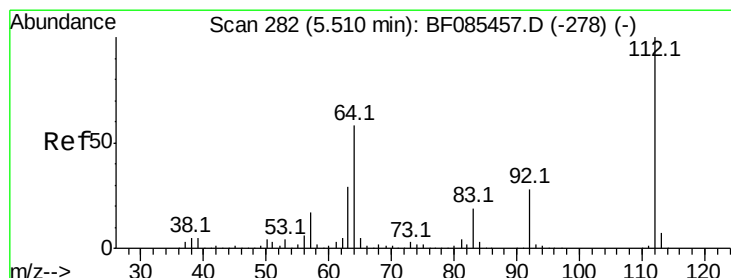
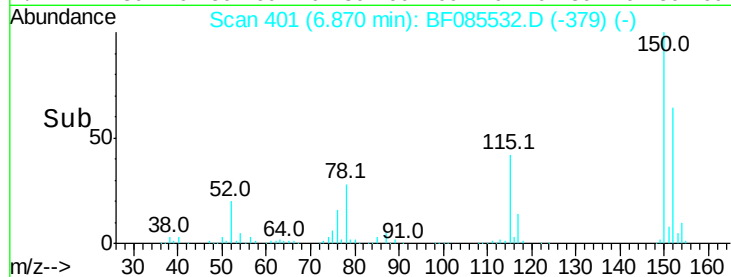
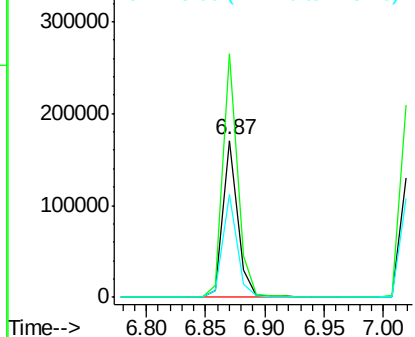
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.87 min Scan# 401  
Delta R.T. -0.05 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 146052  
Ion Ratio Lower Upper  
152 100  
150 155.2 124.6 186.8  
115 65.3 46.6 70.0



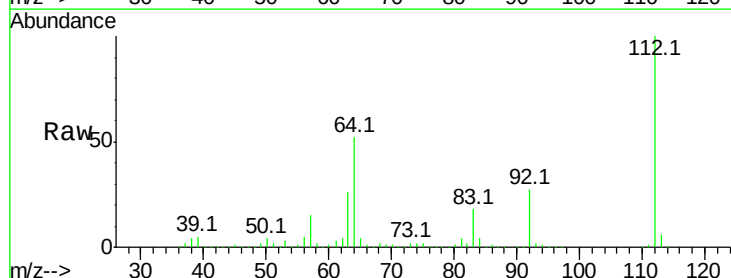
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



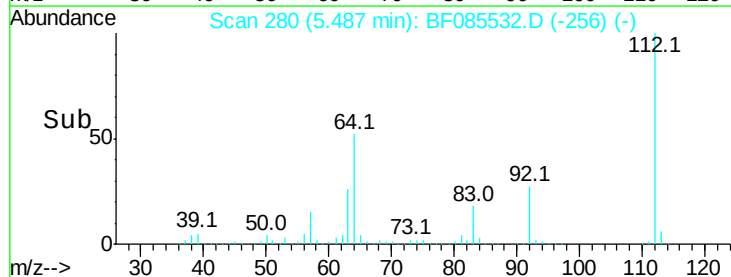
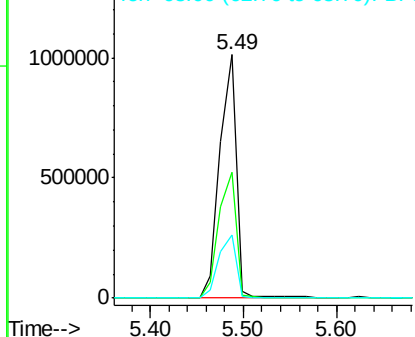
#5

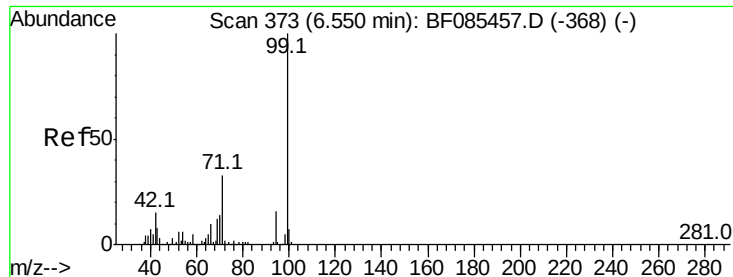
2-Fluorophenol  
Concen: 147.67 ng  
RT: 5.49 min Scan# 280  
Delta R.T. -0.02 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

Tgt Ion:112 Resp: 1254698  
Ion Ratio Lower Upper  
112 100  
64 51.7 49.0 73.4  
63 26.2 24.8 37.2



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: 144.52 ng

RT: 6.52 min Scan# 370

Delta R.T. -0.03 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

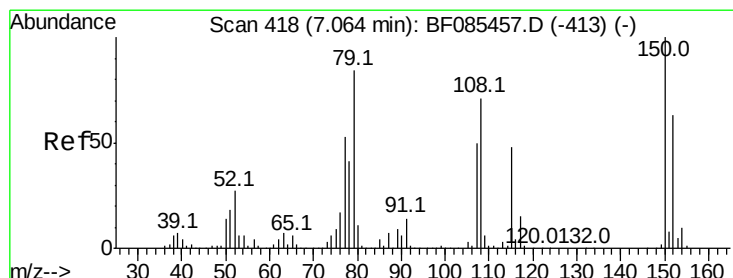
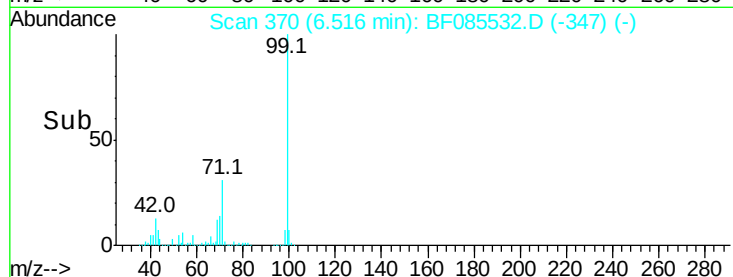
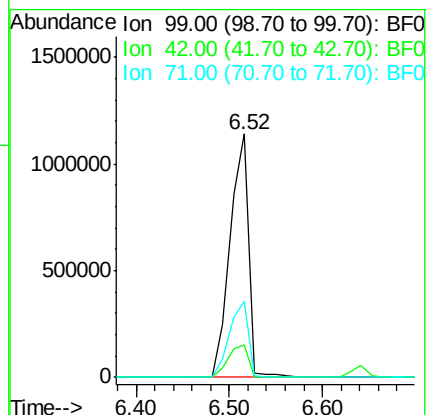
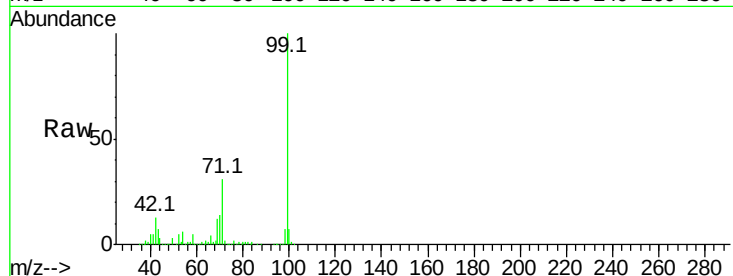
Tot Ion: 99 Resp: 1592806

Ion Ratio Lower Upper

99 100

42 13.2 13.6 20.4#

71 31.2 26.7 40.1



#15

Benzyl Alcohol

Concen: 2.06 ng

RT: 7.03 min Scan# 415

Delta R.T. -0.03 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

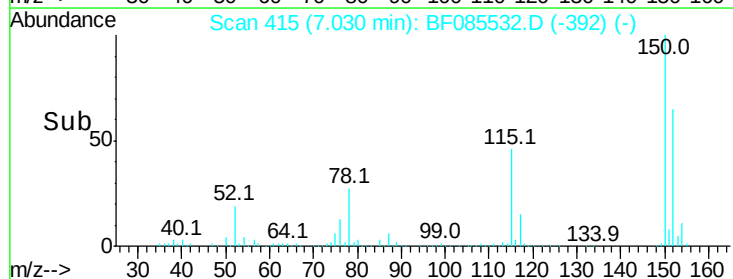
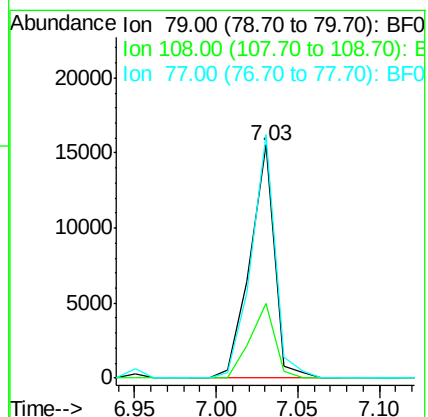
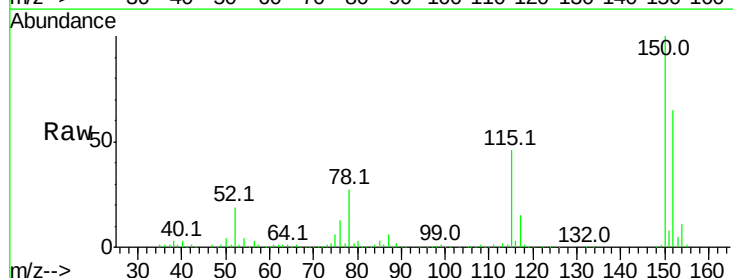
Tgt Ion: 79 Resp: 16247

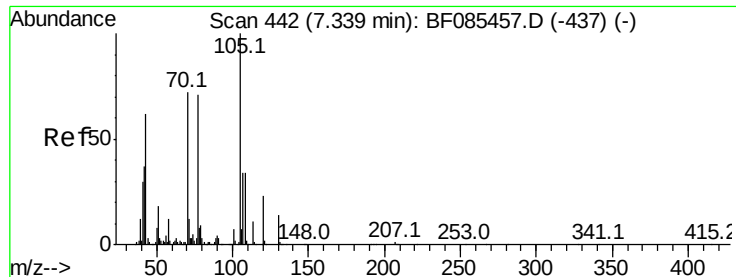
Ion Ratio Lower Upper

79 100

108 32.2 62.9 94.3#

77 104.5 49.5 74.3#





#19

n-Nitroso-di-n-propylamine

Concen: 19.83 ng

RT: 7.44 min Scan# 451

Delta R.T. 0.10 min

Lab File: BF085532.D

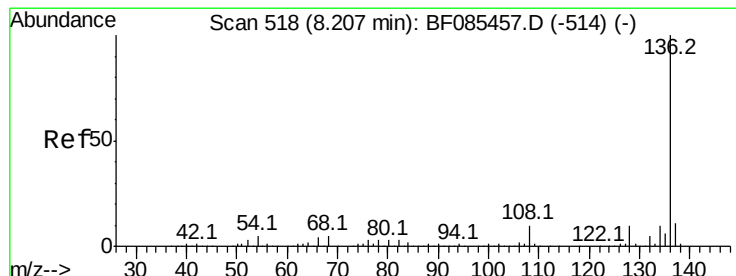
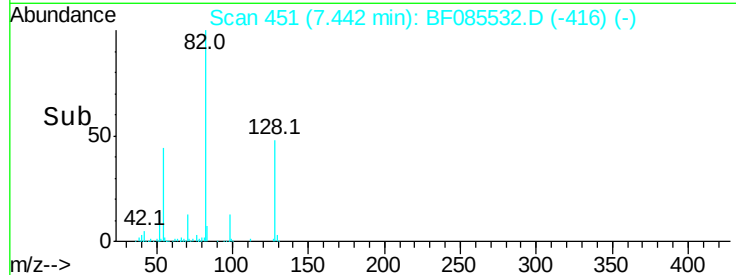
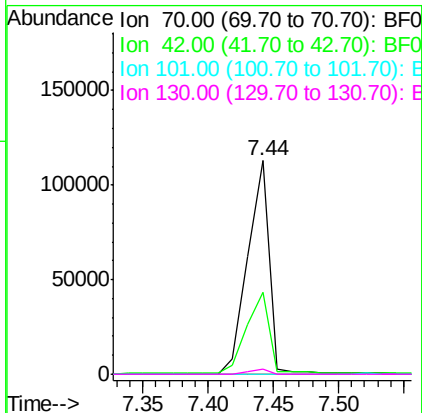
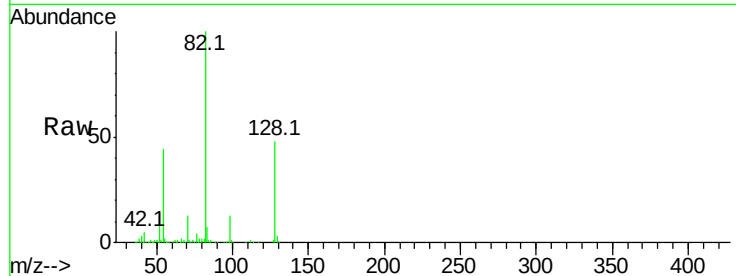
Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 130872 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 38.2  | 37.7  | 56.5   |
| 101      | 0.0   | 8.2   | 12.4#  |
| 130      | 2.5   | 20.5  | 30.7#  |



#21

Naphthalene-d8

Concen: 20.00 ng

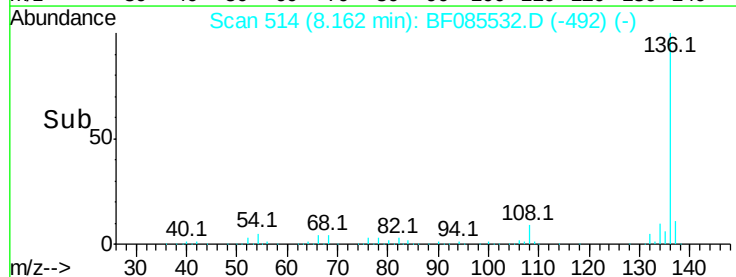
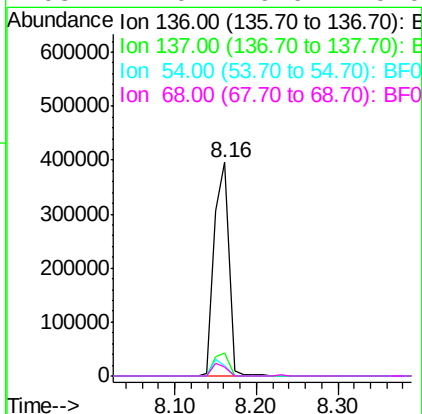
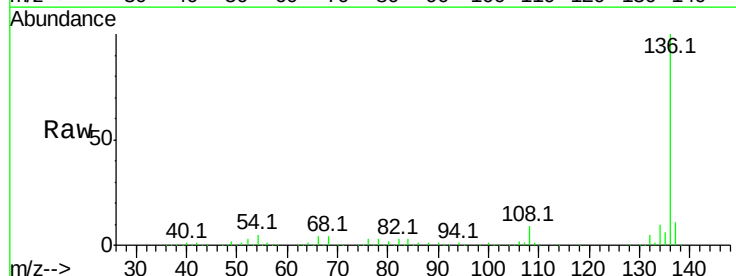
RT: 8.16 min Scan# 514

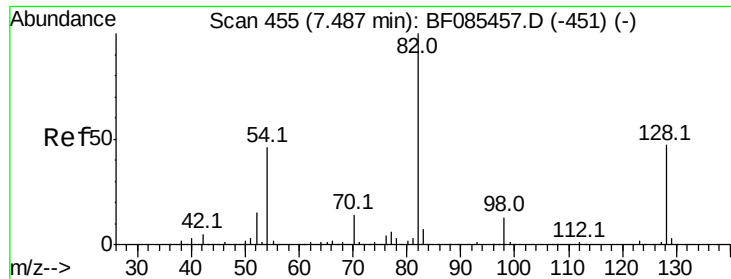
Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 498675 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.3   | 13.9   |
| 54       | 4.6   | 7.4   | 11.2#  |
| 68       | 4.0   | 6.0   | 9.0#   |

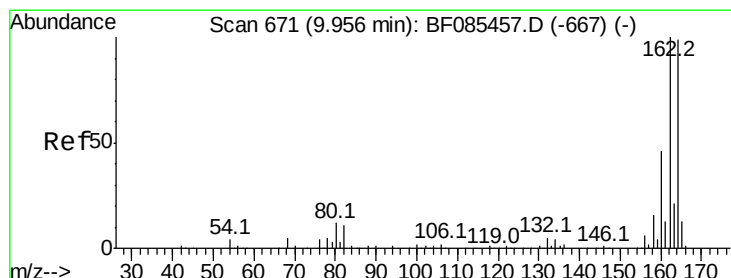
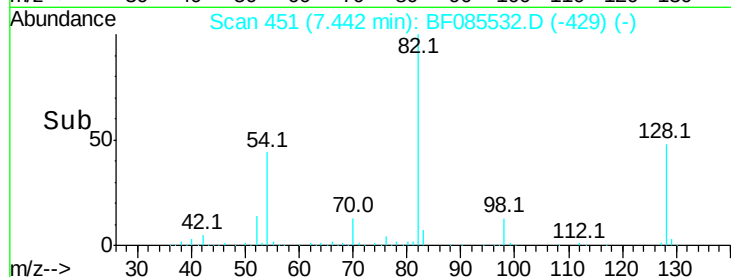
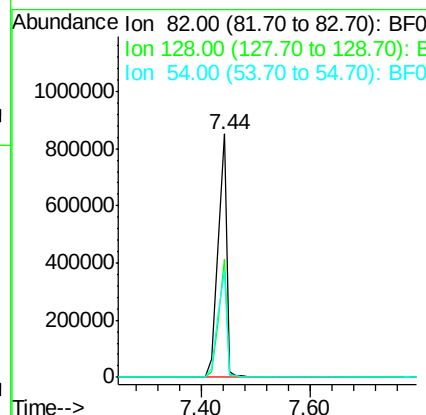
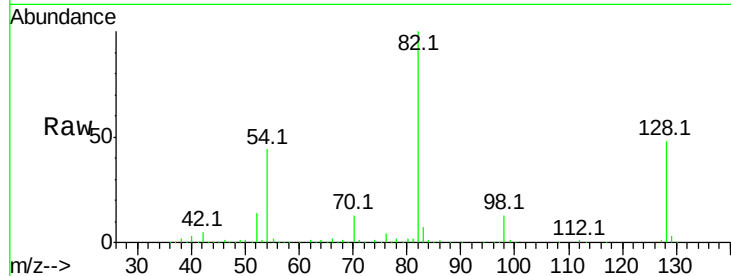




#23  
 Nitrobenzene-d5  
 Concen: 116.04 ng  
 RT: 7.44 min Scan# 451  
 Delta R.T. -0.05 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

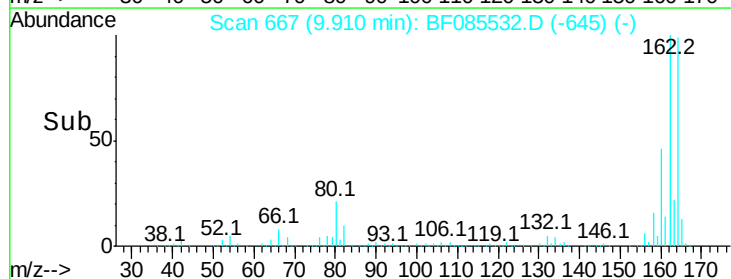
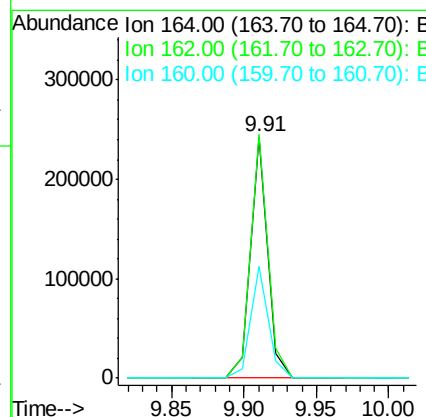
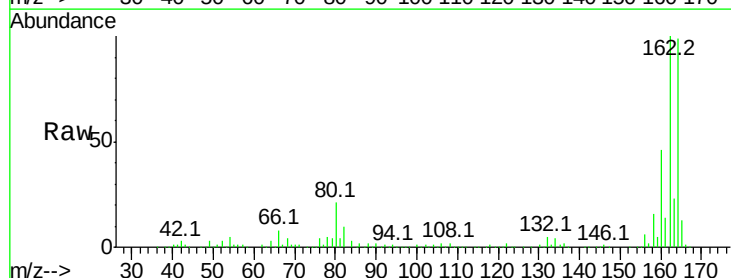
Instrument :  
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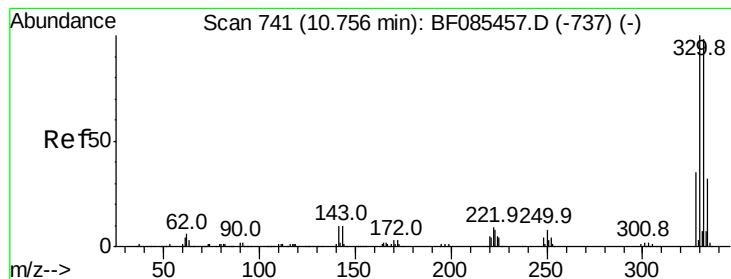
Tot Ion: 82 Resp: 978713  
 Ion Ratio Lower Upper  
 82 100  
 128 48.4 34.5 51.7  
 54 44.0 39.3 58.9



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.91 min Scan# 667  
 Delta R.T. -0.05 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Tgt Ion:164 Resp: 198485  
 Ion Ratio Lower Upper  
 164 100  
 162 101.0 83.3 124.9  
 160 46.3 37.9 56.9

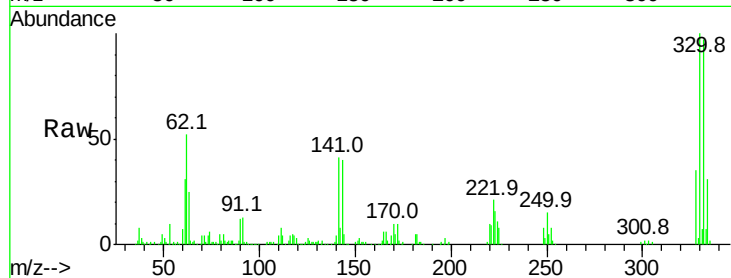




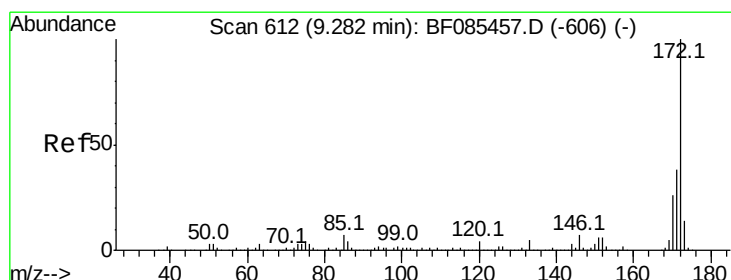
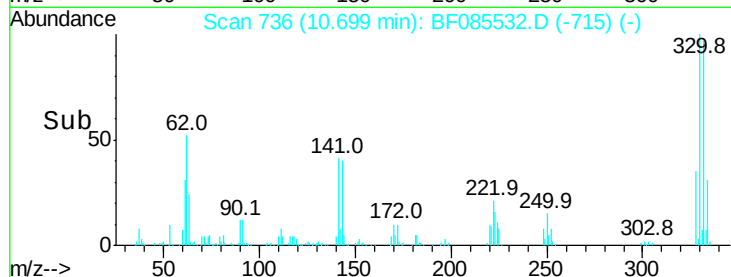
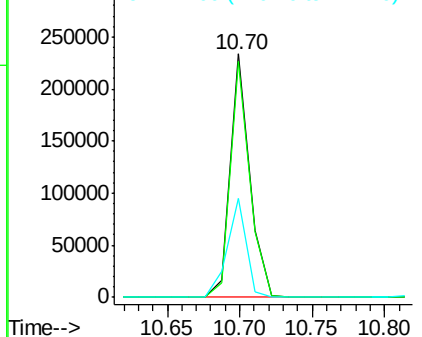
#41  
 2,4,6-Tribromophenol  
 Concen: 119.04 ng  
 RT: 10.70 min Scan# 736  
 Delta R.T. -0.06 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 217628  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 77.1 115.7  
 141 39.5 35.0 52.6

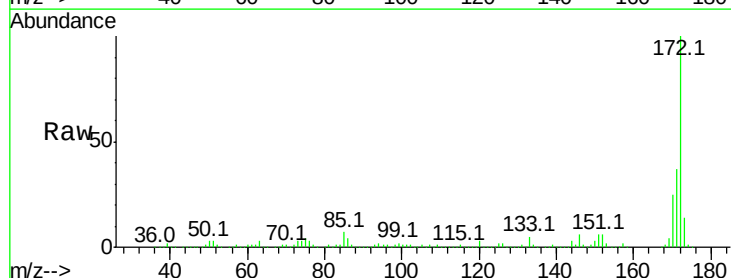


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

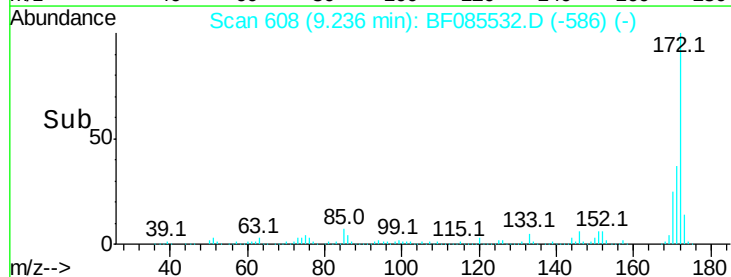
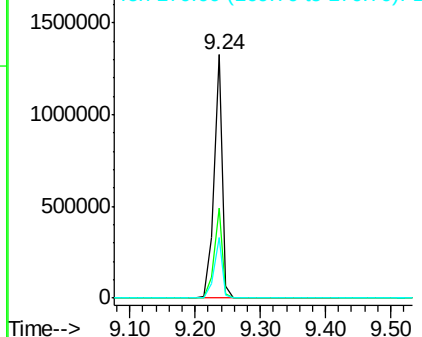


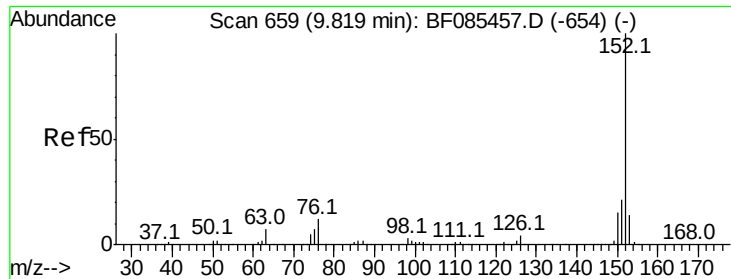
#44  
 2-Fluorobiphenyl  
 Concen: 104.50 ng  
 RT: 9.24 min Scan# 608  
 Delta R.T. -0.05 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Tgt Ion:172 Resp: 1195600  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 29.3 43.9  
 170 24.8 20.0 30.0



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





#48

Acenaphthylene

Concen: 3.66 ng

RT: 9.77 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampled :

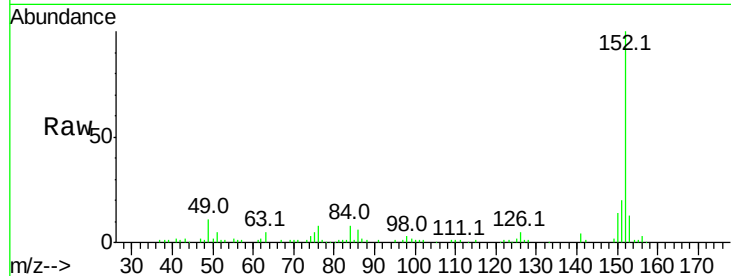
Tot Ion:152 Resp: 71881

Ion Ratio Lower Upper

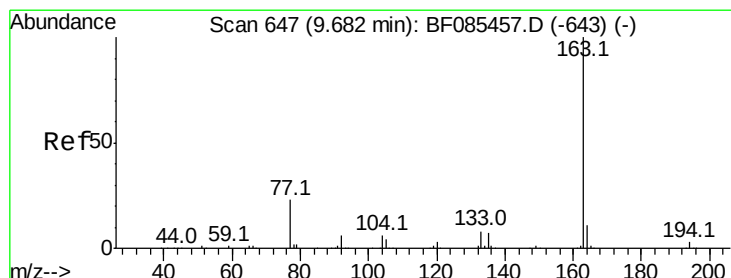
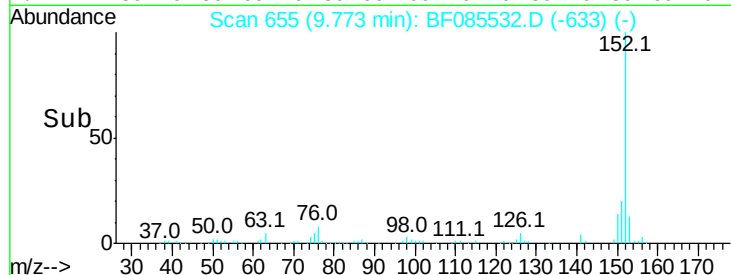
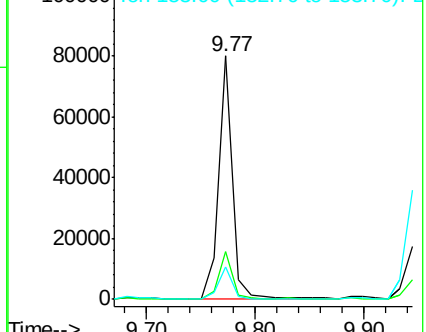
152 100

151 19.8 17.5 26.3

153 13.1 11.3 16.9



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 15.92 ng

RT: 9.62 min Scan# 642

Delta R.T. -0.06 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

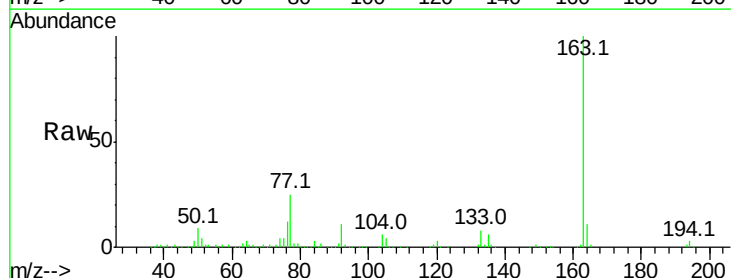
Tgt Ion:163 Resp: 230524

Ion Ratio Lower Upper

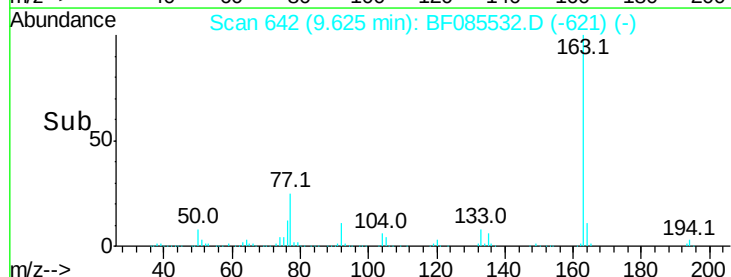
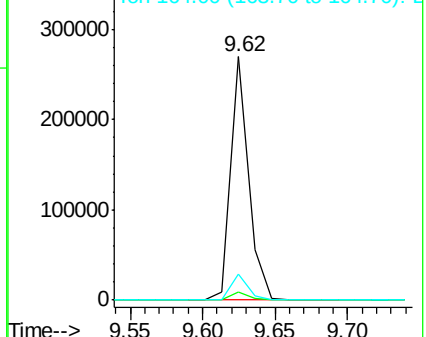
163 100

194 3.2 3.1 4.7

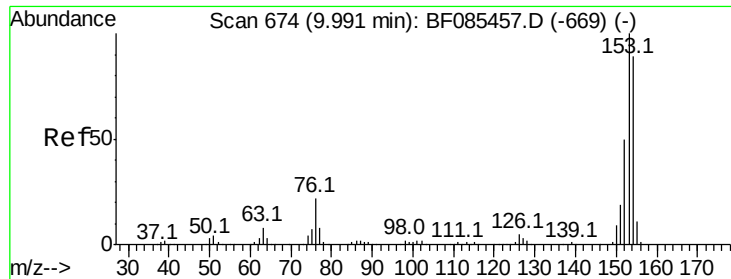
164 10.5 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E







#51

Acenaphthene

Concen: 2.19 ng

RT: 9.94 min Scan# 670

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

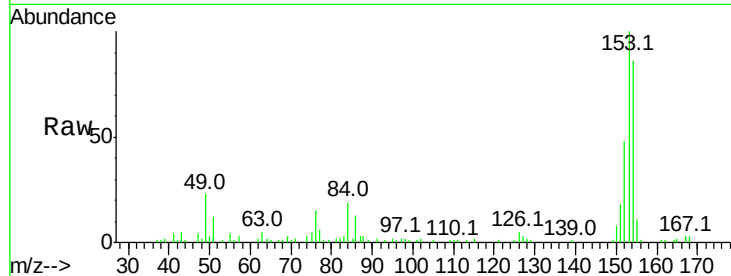
Tot Ion:154 Resp: 27085

Ion Ratio Lower Upper

154 100

153 116.8 89.8 134.8

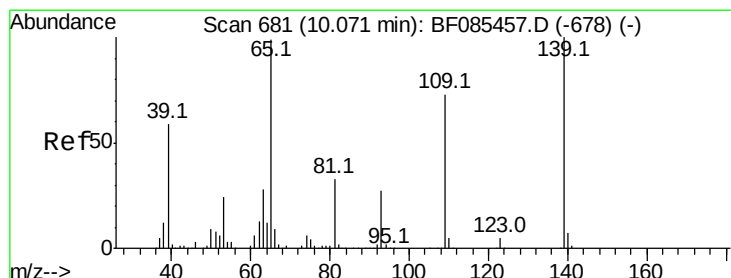
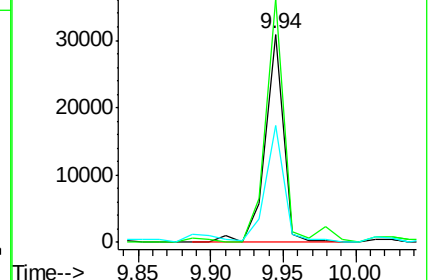
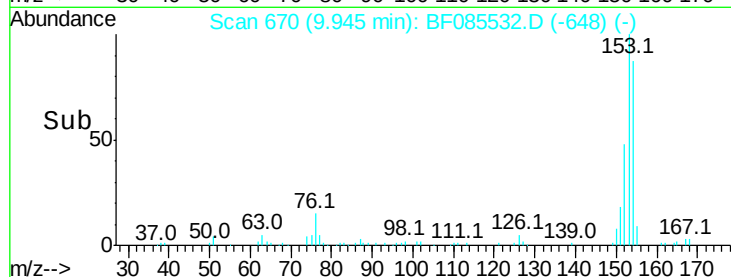
152 56.3 44.6 66.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

4-Nitrophenol

Concen: 3.83 ng

RT: 10.12 min Scan# 685

Delta R.T. 0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

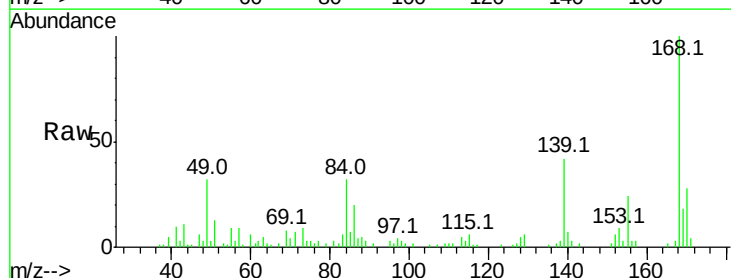
Tgt Ion:139 Resp: 10081

Ion Ratio Lower Upper

139 100

109 5.0 41.9 81.9#

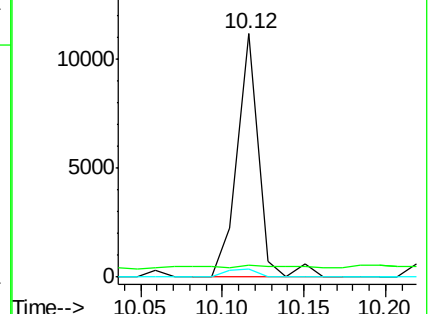
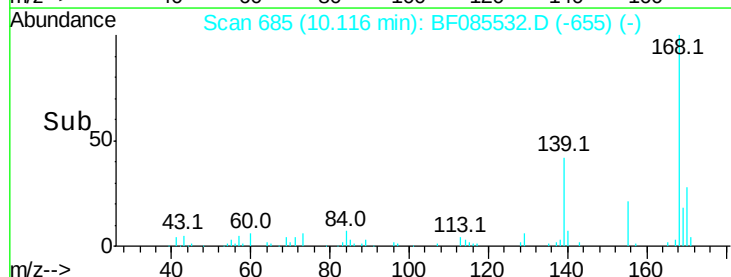
65 3.3 48.3 88.3#

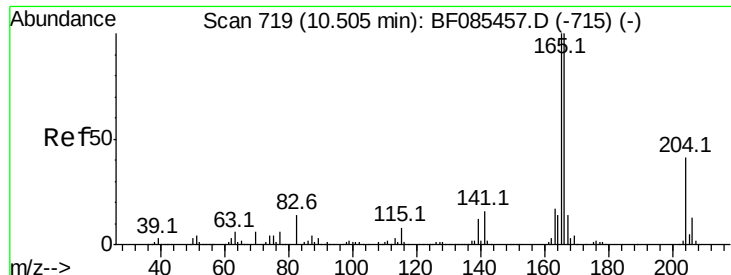


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

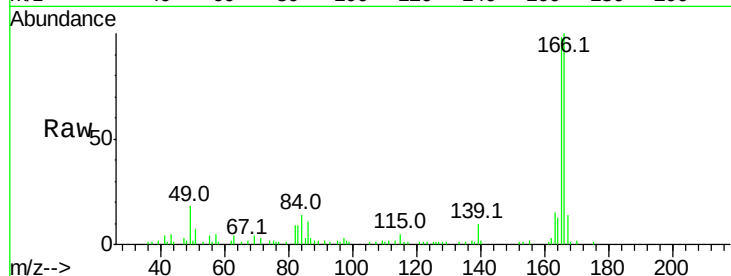




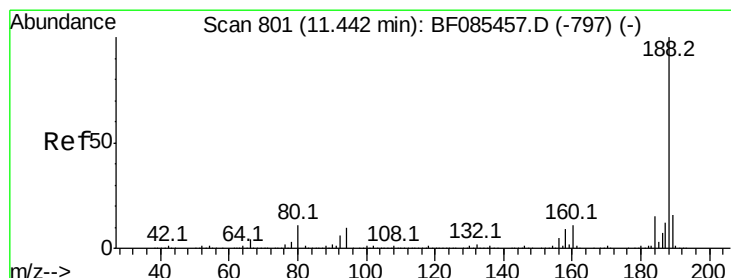
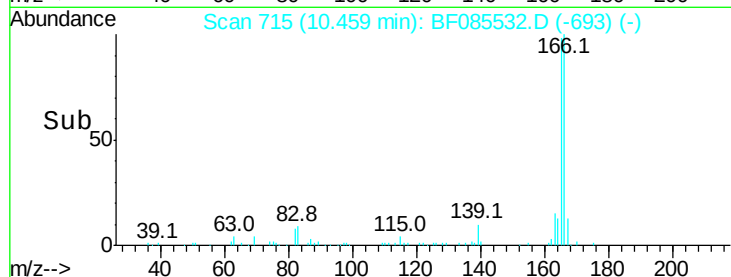
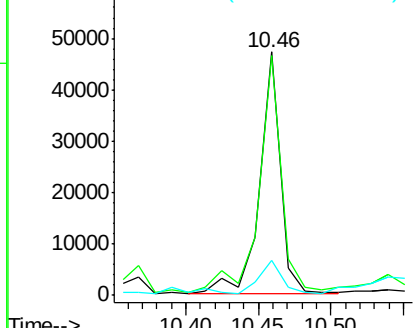
#57  
**Fluorene**  
 Concen: 3.94 ng  
 RT: 10.46 min Scan# 715  
 Delta R.T. -0.05 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:166 Resp: 47710  
 Ion Ratio Lower Upper  
 166 100  
 165 98.4 79.4 119.0  
 167 14.2 11.0 16.6

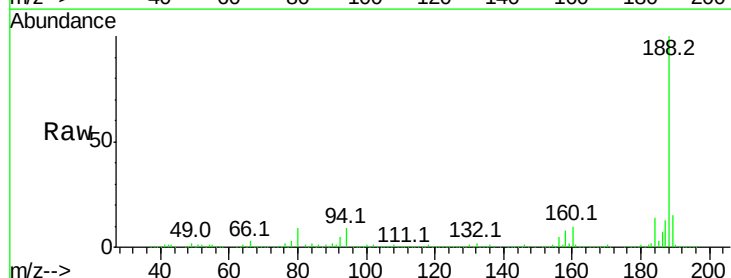


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

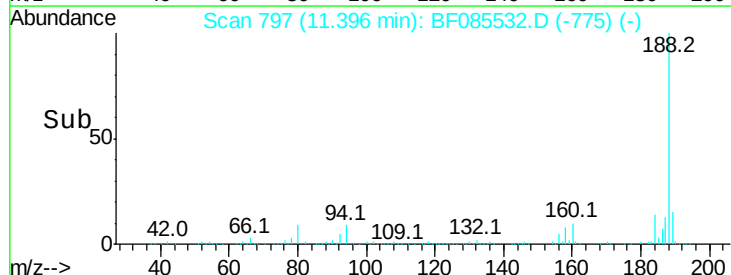
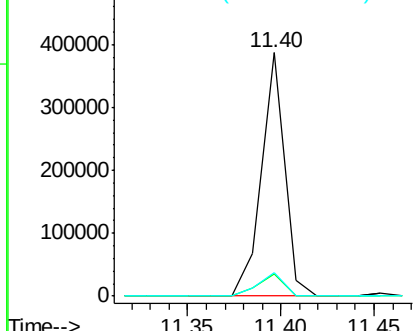


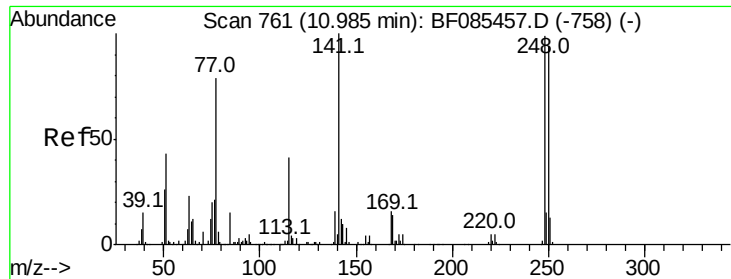
#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.40 min Scan# 797  
 Delta R.T. -0.05 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Tgt Ion:188 Resp: 330658  
 Ion Ratio Lower Upper  
 188 100  
 94 8.9 7.0 10.6  
 80 9.4 7.4 11.0



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





#66

4-Bromophenyl-phenylether

Concen: 4.73 ng

RT: 10.70 min Scan# 736

Delta R.T. -0.29 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

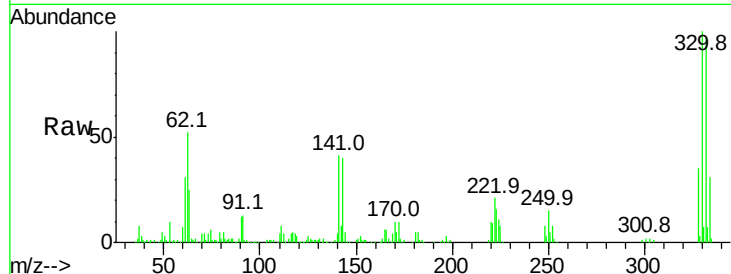
Tot Ion:248 Resp: 15812

Ion Ratio Lower Upper

248 100

250 193.7 77.1 115.7#

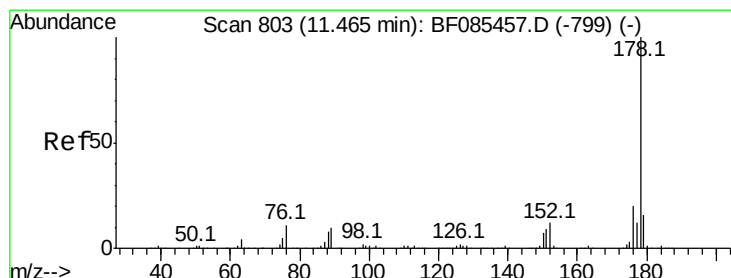
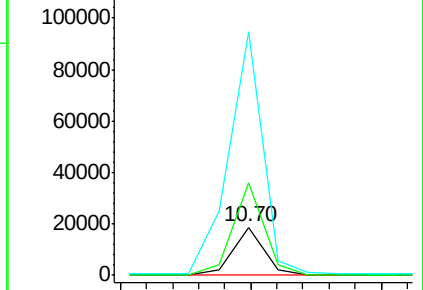
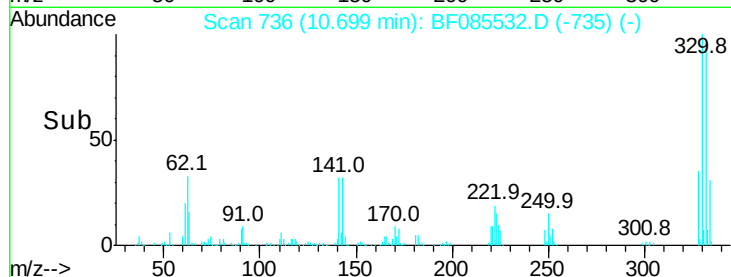
141 509.5 66.2 99.2#



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



#70

Phenanthrene

Concen: 26.99 ng

RT: 11.42 min Scan# 799

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

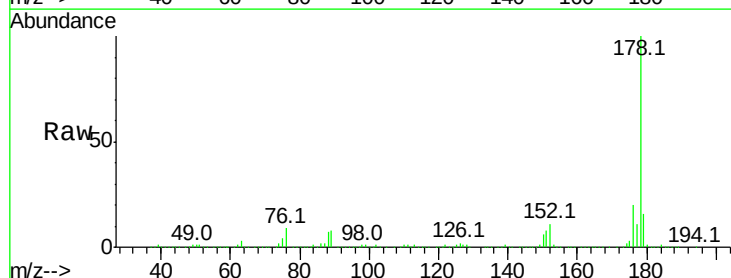
Tgt Ion:178 Resp: 464771

Ion Ratio Lower Upper

178 100

176 19.6 16.8 25.2

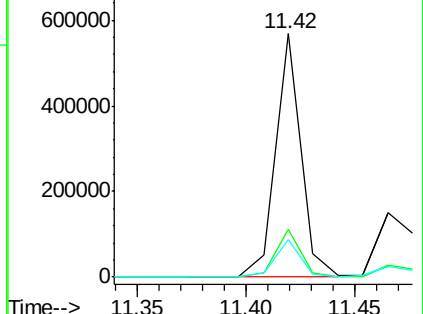
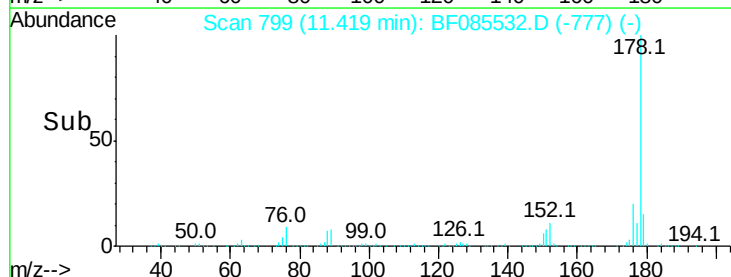
179 15.6 13.1 19.7

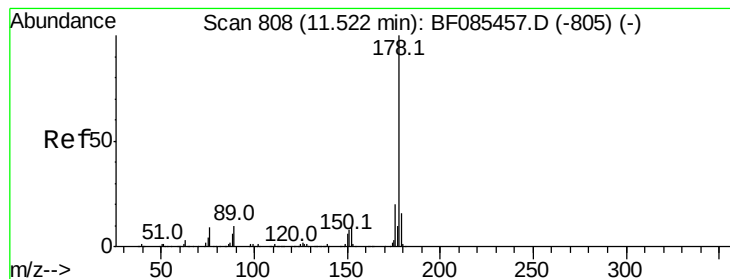


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 10.70 ng

RT: 11.46 min Scan# 803

Delta R.T. -0.06 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

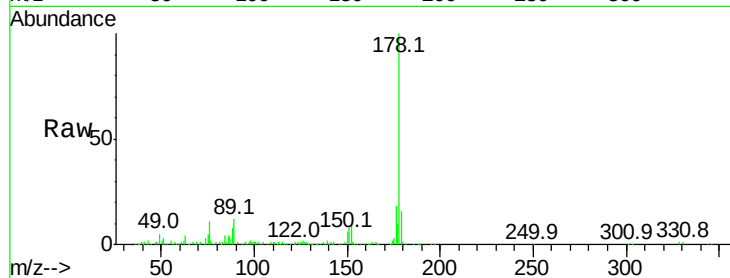
Tot Ion:178 Resp: 187627

Ion Ratio Lower Upper

178 100

176 18.4 15.9 23.9

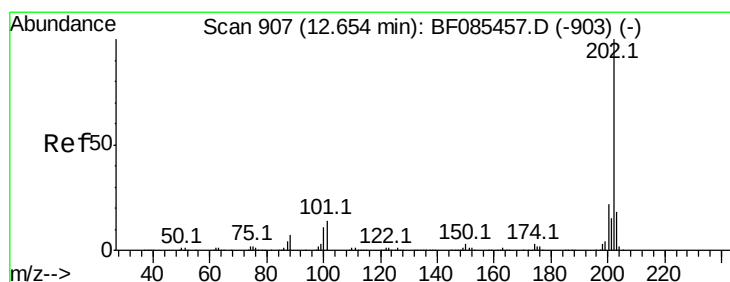
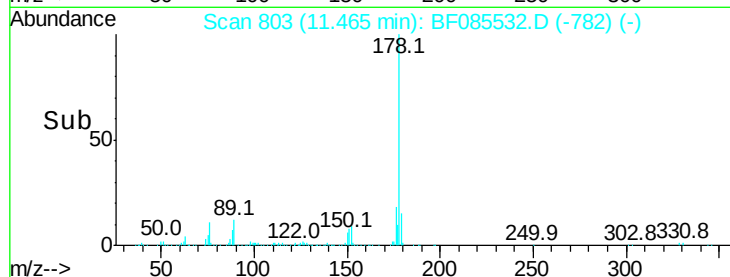
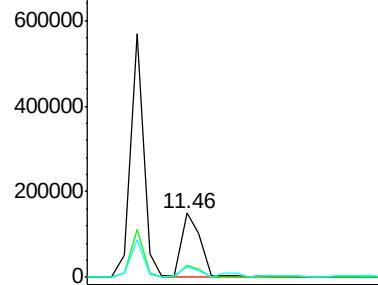
179 15.8 12.5 18.7



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



#74

Fluoranthene

Concen: 48.30 ng

RT: 12.61 min Scan# 903

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

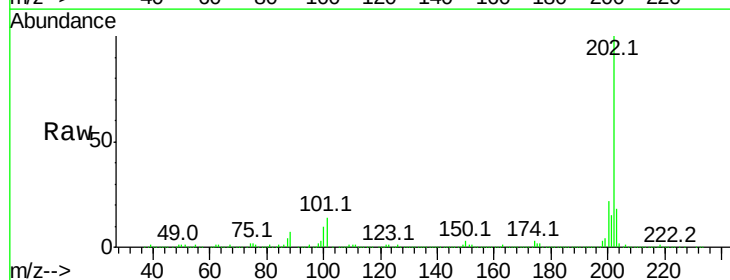
Tgt Ion:202 Resp: 782017

Ion Ratio Lower Upper

202 100

101 14.1 0.0 31.8

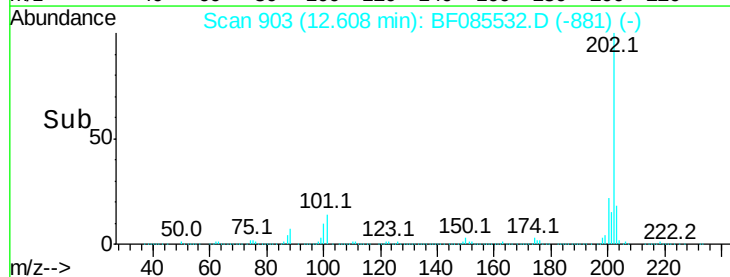
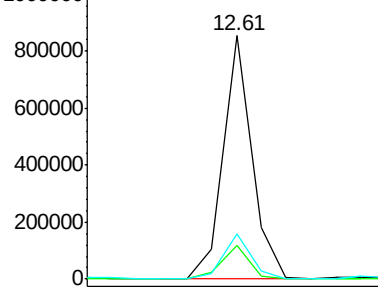
203 18.5 0.0 38.4

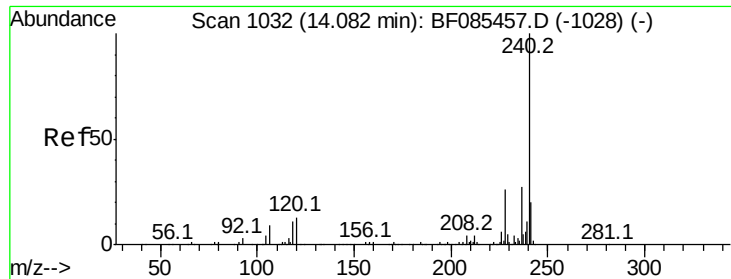


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1028

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

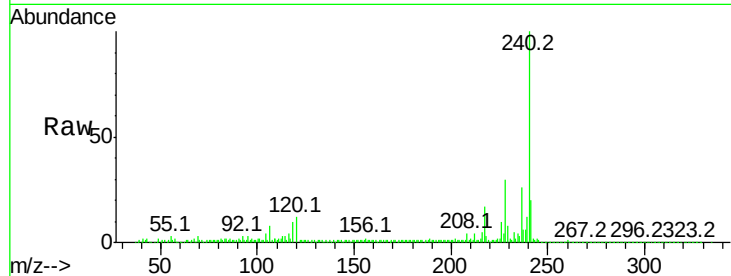
Tot Ion:240 Resp: 288573

Ion Ratio Lower Upper

240 100

120 12.3 5.3 7.9#

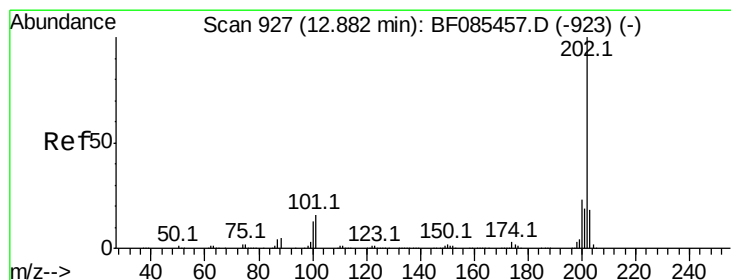
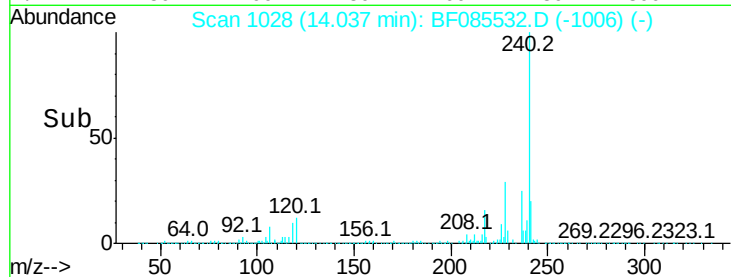
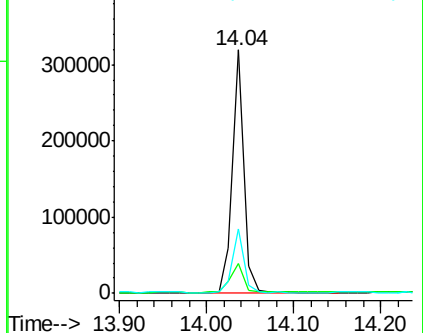
236 26.4 20.7 31.1



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



#77

Pyrene

Concen: 35.26 ng

RT: 12.84 min Scan# 923

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

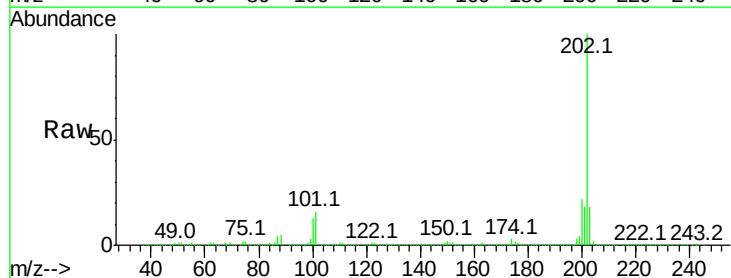
Tgt Ion:202 Resp: 763138

Ion Ratio Lower Upper

202 100

200 21.8 18.2 27.4

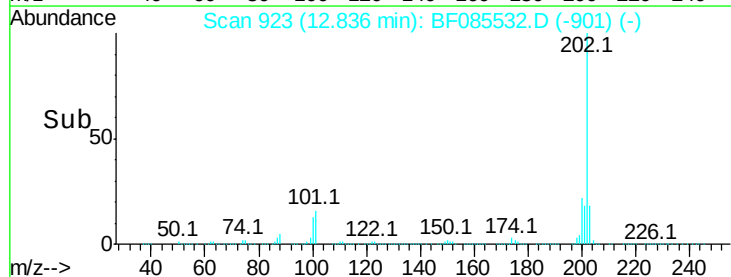
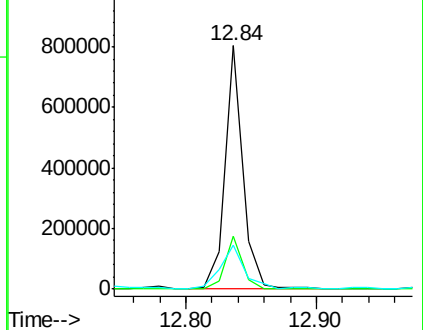
203 18.2 14.7 22.1

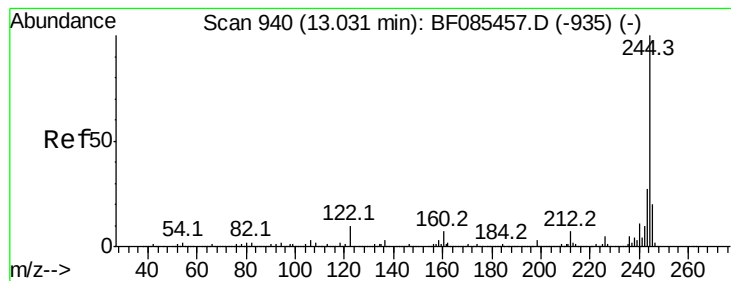


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 78.65 ng

RT: 12.99 min Scan# 936

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampled :

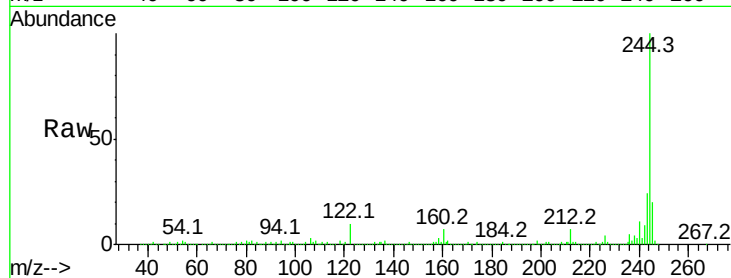
Tot Ion:244 Resp: 1003325

Ion Ratio Lower Upper

244 100

212 7.0 6.4 9.6

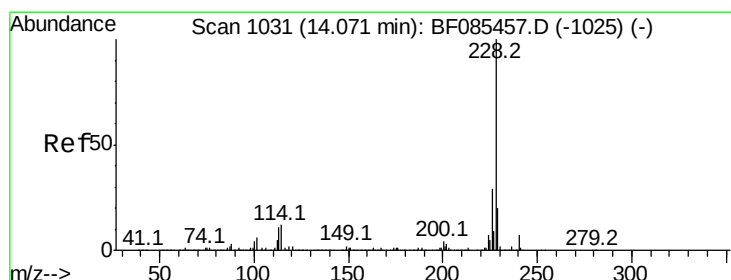
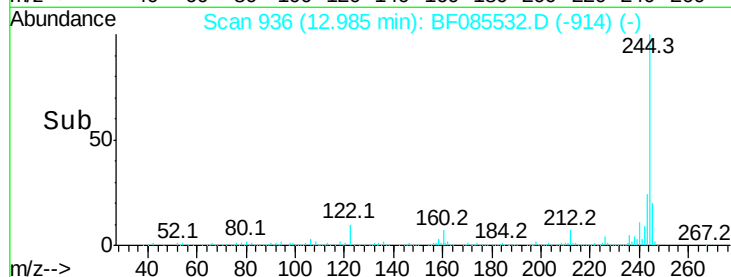
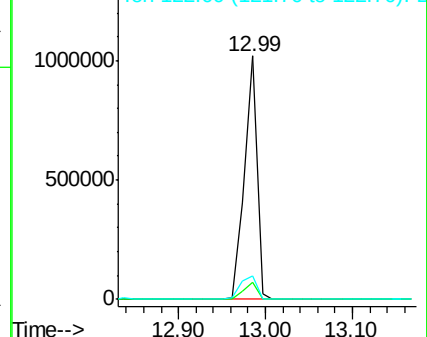
122 9.8 11.4 17.2#



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



#80

Benzo(a)anthracene

Concen: 31.38 ng

RT: 14.03 min Scan# 1027

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

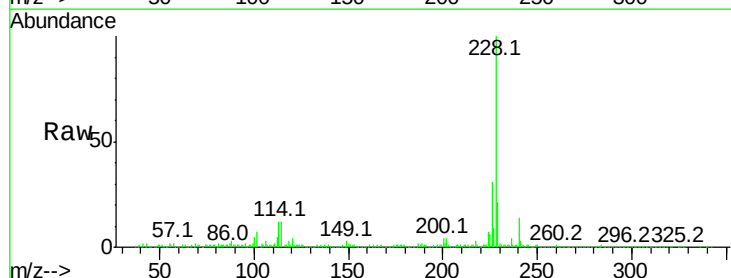
Tgt Ion:228 Resp: 519174

Ion Ratio Lower Upper

228 100

226 30.5 22.8 34.2

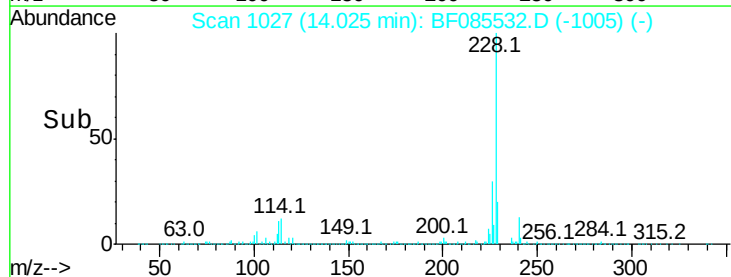
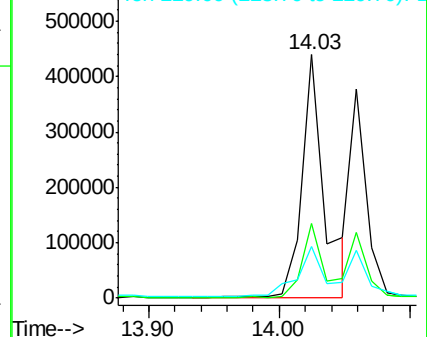
229 21.0 16.6 24.8

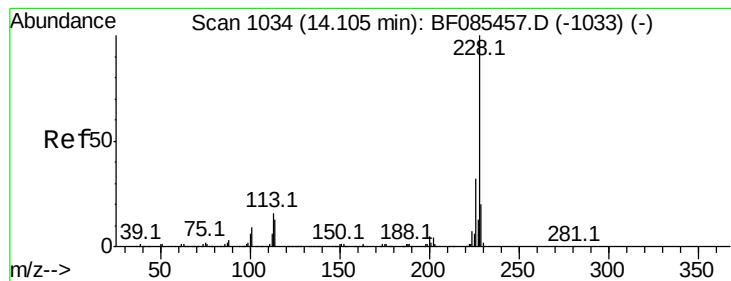


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.83 ng

RT: 14.06 min Scan# 1030

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampled :

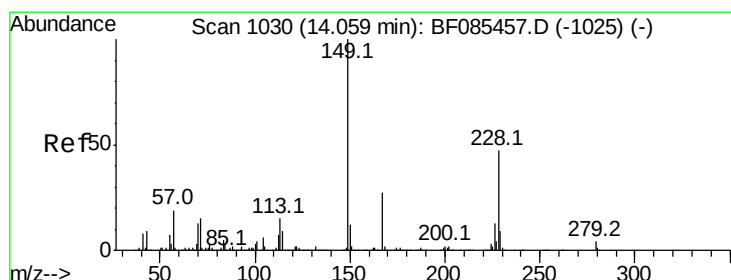
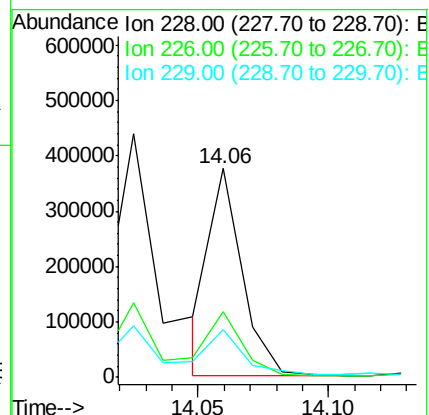
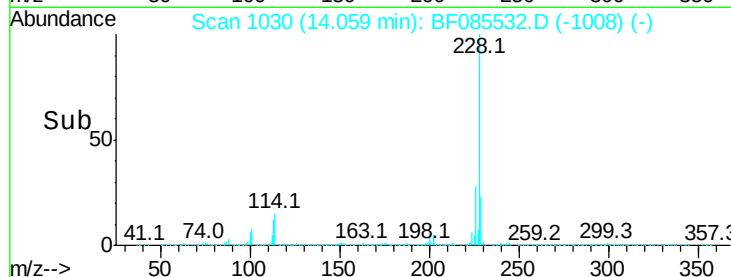
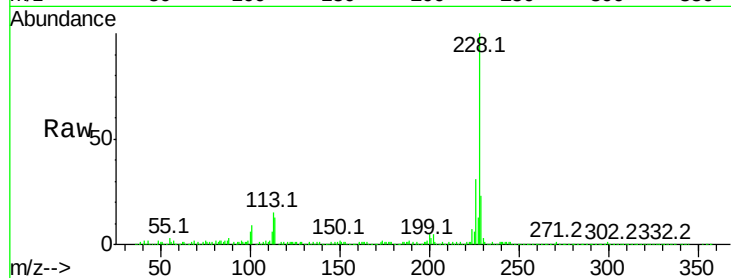
Tot Ion:228 Resp: 324820

Ion Ratio Lower Upper

228 100

226 31.3 25.2 37.8

229 22.9 16.0 24.0



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.03 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.05 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

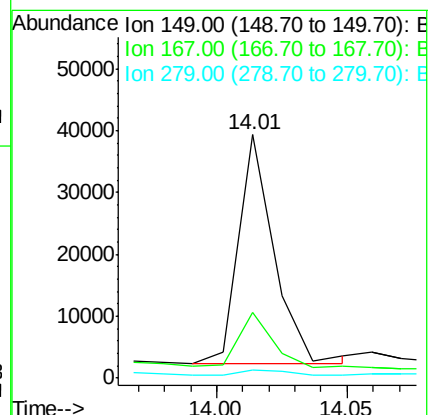
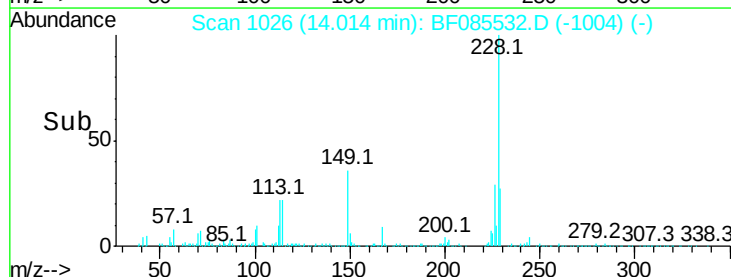
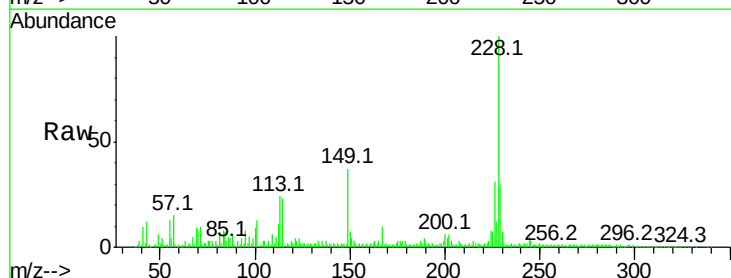
Tgt Ion:149 Resp: 34993

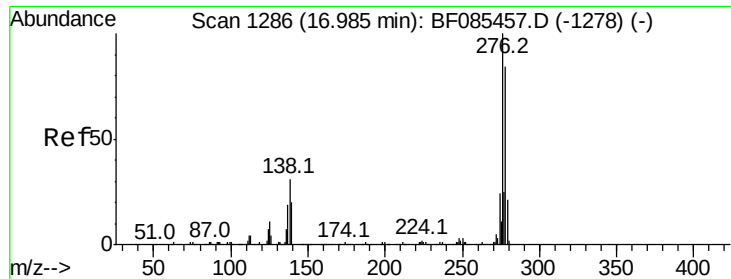
Ion Ratio Lower Upper

149 100

167 27.2 20.3 30.5

279 3.5 1.9 2.9#

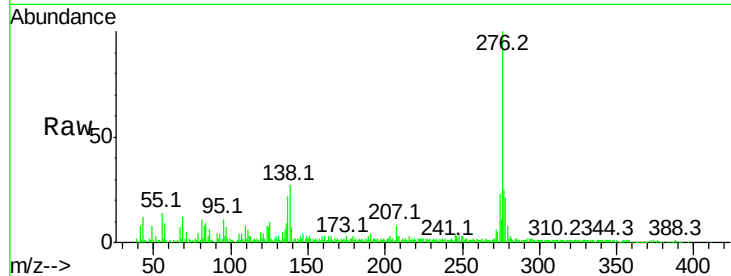




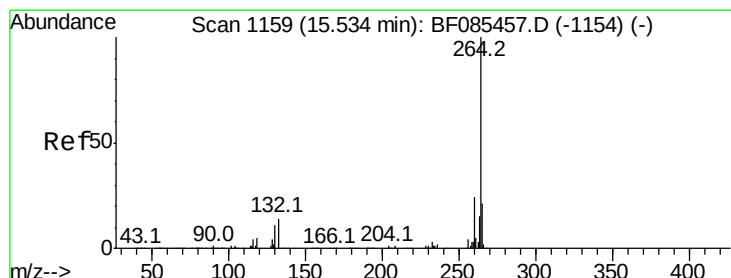
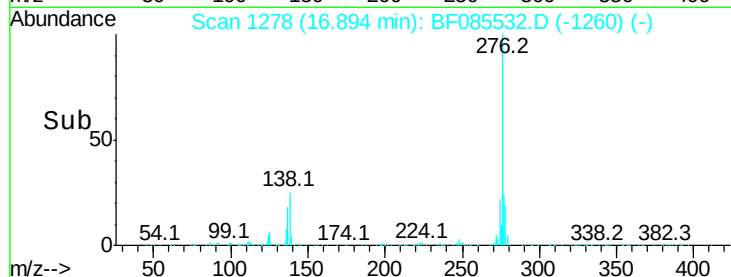
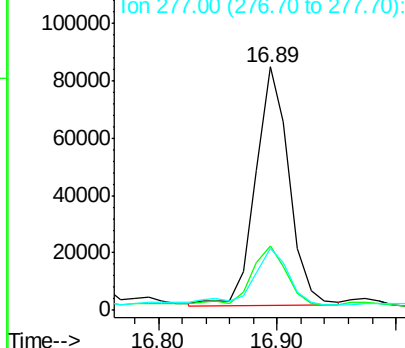
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 11.58 ng  
RT: 16.89 min Scan# 1278  
Delta R.T. -0.09 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.8  | 26.4  | 39.6  |
| 277     | 26.5  | 20.2  | 30.2  |

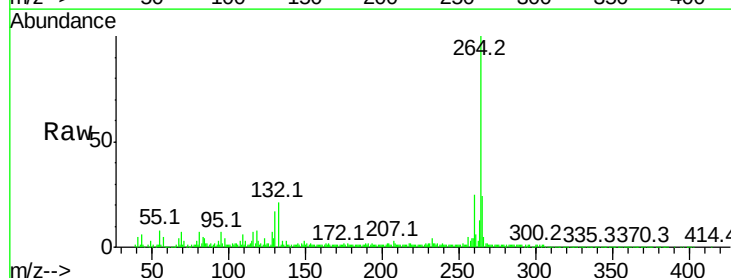


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

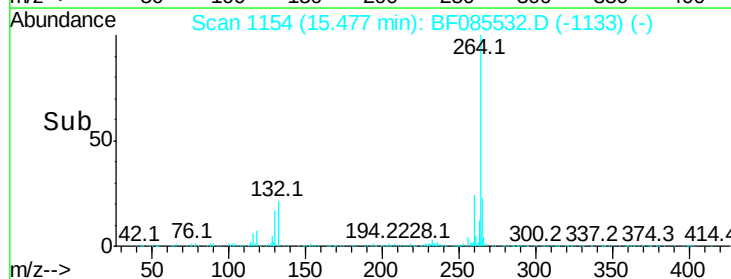
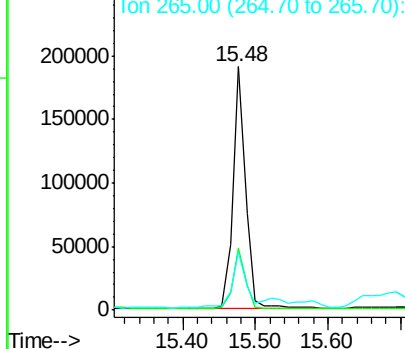


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.48 min Scan# 1154  
Delta R.T. -0.06 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

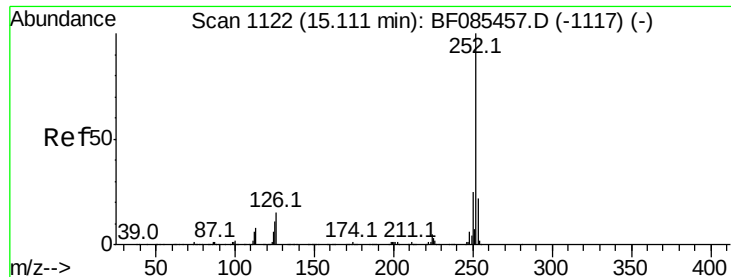
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 19.2  | 28.8  |
| 265     | 23.7  | 17.3  | 25.9  |



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



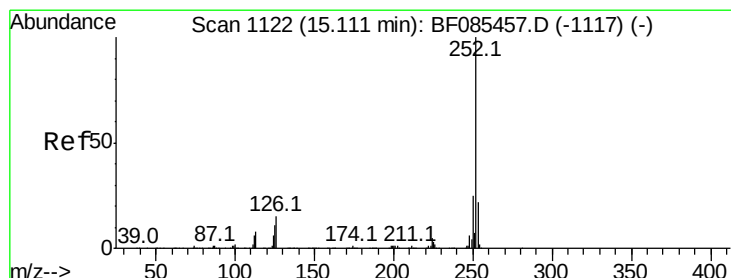
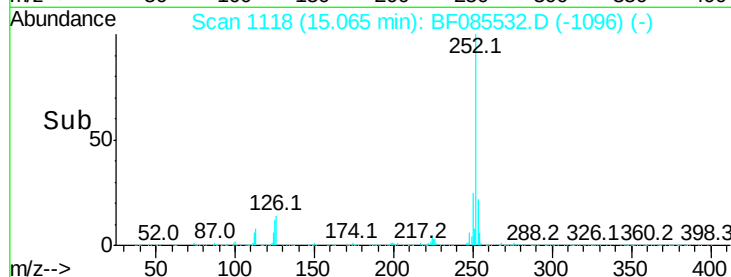
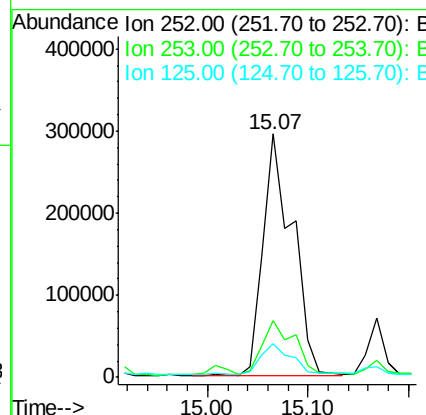
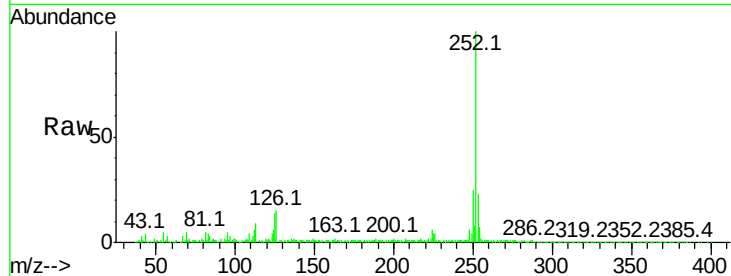




#87  
Benzo(b)fluoranthene  
Concen: 39.21 ng  
RT: 15.07 min Scan# 1118  
Delta R.T. -0.05 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

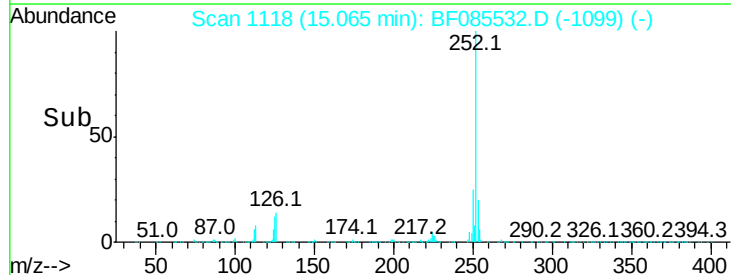
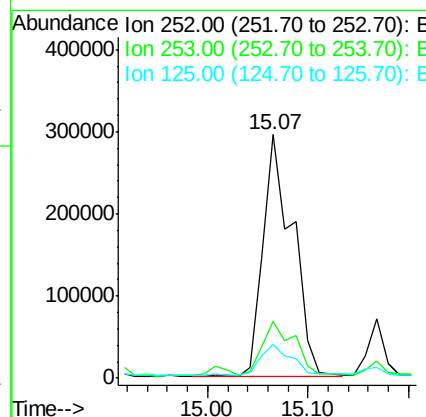
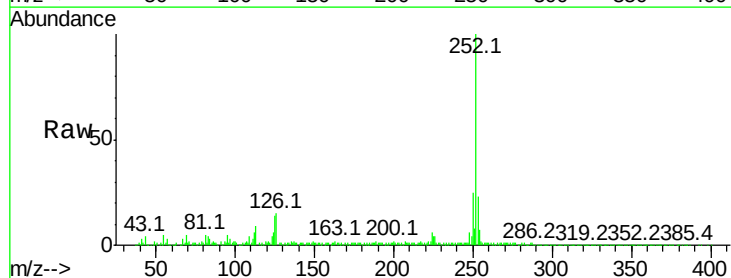
Instrument :  
BNA\_F  
ClientSampleId :

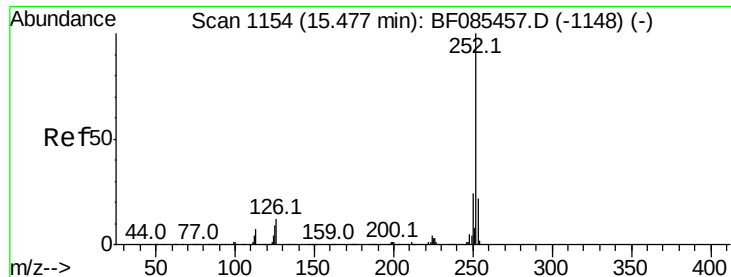
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.8  | 26.6  |
| 125     | 13.7  | 11.3  | 16.9  |



#88  
Benzo(k)fluoranthene  
Concen: 50.06 ng  
RT: 15.07 min Scan# 1118  
Delta R.T. -0.08 min  
Lab File: BF085532.D  
Acq: 18 Mar 2016 12:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.8  | 26.6  |
| 125     | 13.7  | 10.4  | 15.6  |





#89

Benzo(a)pyrene

Concen: 24.13 ng

RT: 15.42 min Scan# 1149

Delta R.T. -0.06 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

Instrument :

BNA\_F

ClientSampleId :

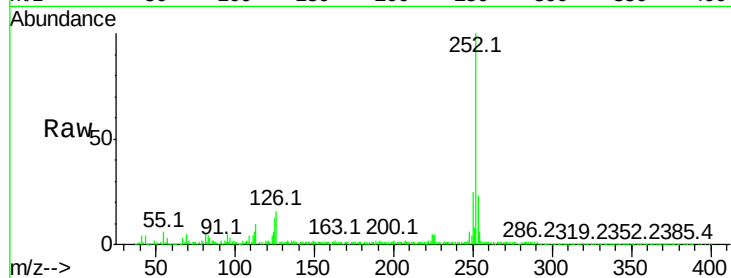
Tot Ion:252 Resp: 316701

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

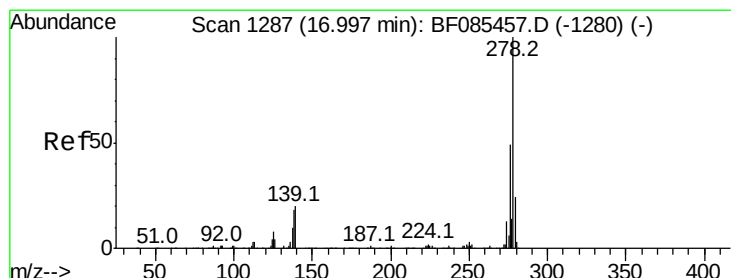
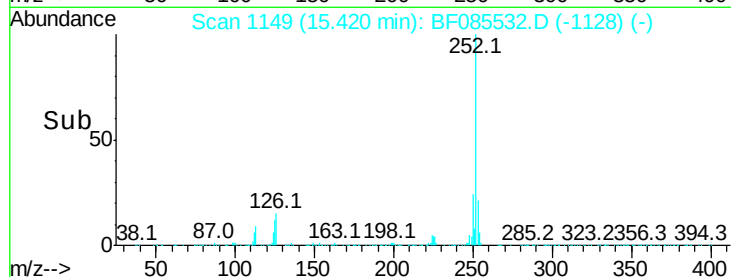
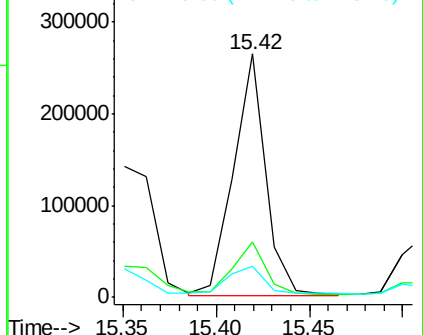
125 12.6 8.2 12.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.38 ng

RT: 16.91 min Scan# 1279

Delta R.T. -0.09 min

Lab File: BF085532.D

Acq: 18 Mar 2016 12:01

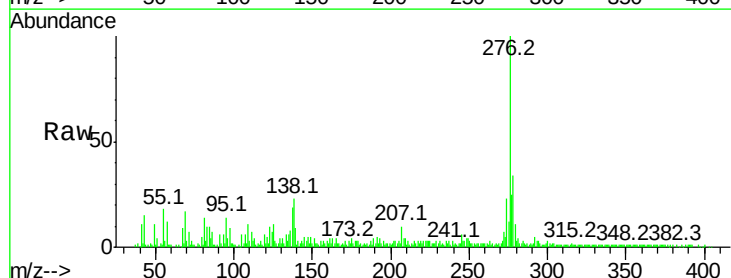
Tgt Ion:278 Resp: 43392

Ion Ratio Lower Upper

278 100

139 24.9 17.3 25.9

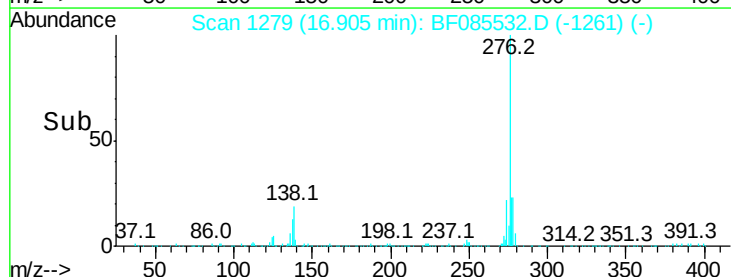
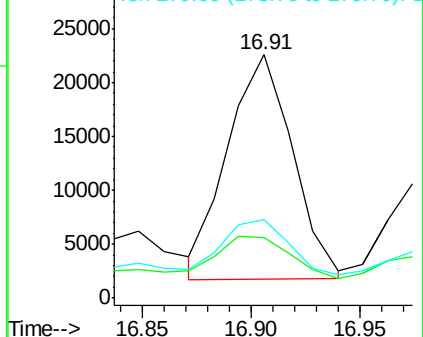
279 32.5 19.2 28.8#

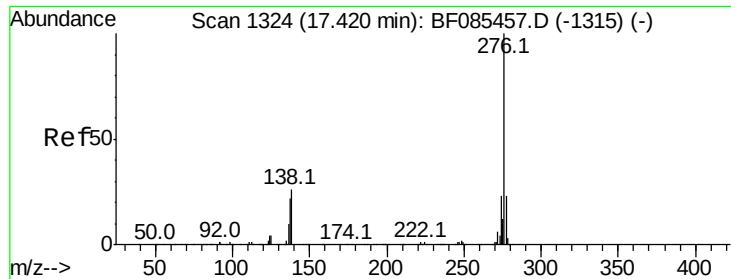


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

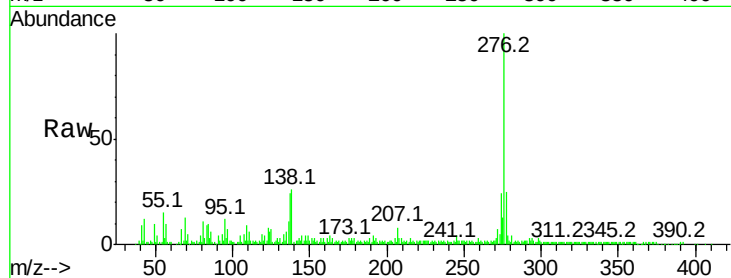




#91  
 Benzo(a,h,i)perylene  
 Concen: 11.65 ng  
 RT: 17.33 min Scan# 1316  
 Delta R.T. -0.09 min  
 Lab File: BF085532.D  
 Acq: 18 Mar 2016 12:01

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 19.0  | 28.4  |
| 138     | 26.4  | 22.5  | 33.7  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

