

Data File : BF100641.D  
Acq On : 16 Nov 2017 20:02  
Operator : SJ/JU  
Sample : I6462-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-004-ABCD

Quant Time: Nov 17 01:10:40 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 16 12:15:03 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 124341   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 482331   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 207634   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 326025   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 246814   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 211744   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.50  | 112 | 708096 | 91.29 | ng | 0.00 |
| 7) Phenol-d6                | 6.51  | 99  | 857354 | 89.63 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.45  | 82  | 530040 | 72.65 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330 | 156504 | 73.97 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.24  | 172 | 959999 | 70.40 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 656664 | 61.13 | ng | 0.00 |

|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 10) Phenol                     | 6.52  | 94  | 35109  | 3.50  | ng | 95     |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70  | 69812  | 10.52 | ng | # 81   |
| 25) Isophorone                 | 7.45  | 82  | 528250 | 34.46 | ng | # 64   |
| 32) Benzoic acid               | 7.86  | 122 | 1815   | 9.65  | ng | 87     |
| 47) 2-Nitroaniline             | 9.63  | 65  | 643    | 2.94  | ng | # 1    |
| 49) Dimethylphthalate          | 9.63  | 163 | 56006  | 3.53  | ng | # 99   |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165 | 26140  | 8.33  | ng | # 26   |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165 | 26140  | 6.60  | ng | # 23   |
| 62) Azobenzene                 | 10.63 | 77  | 37239  | 2.49  | ng | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198 | 120    | 8.63  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248 | 10092  | 2.89  | ng | # 1    |
| 74) Fluoranthene               | 12.62 | 202 | 48753  | 2.68  | ng | 93     |
| 77) Pyrene                     | 12.84 | 202 | 47525  | 2.70  | ng | 98     |
| 87) Benzo(b)fluoranthene       | 15.08 | 252 | 35105  | 2.80  | ng | # 83   |
| 88) Benzo(k)fluoranthene       | 15.08 | 252 | 35105  | 2.96  | ng | # 87   |

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

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FK-EF-01-004-ABCD

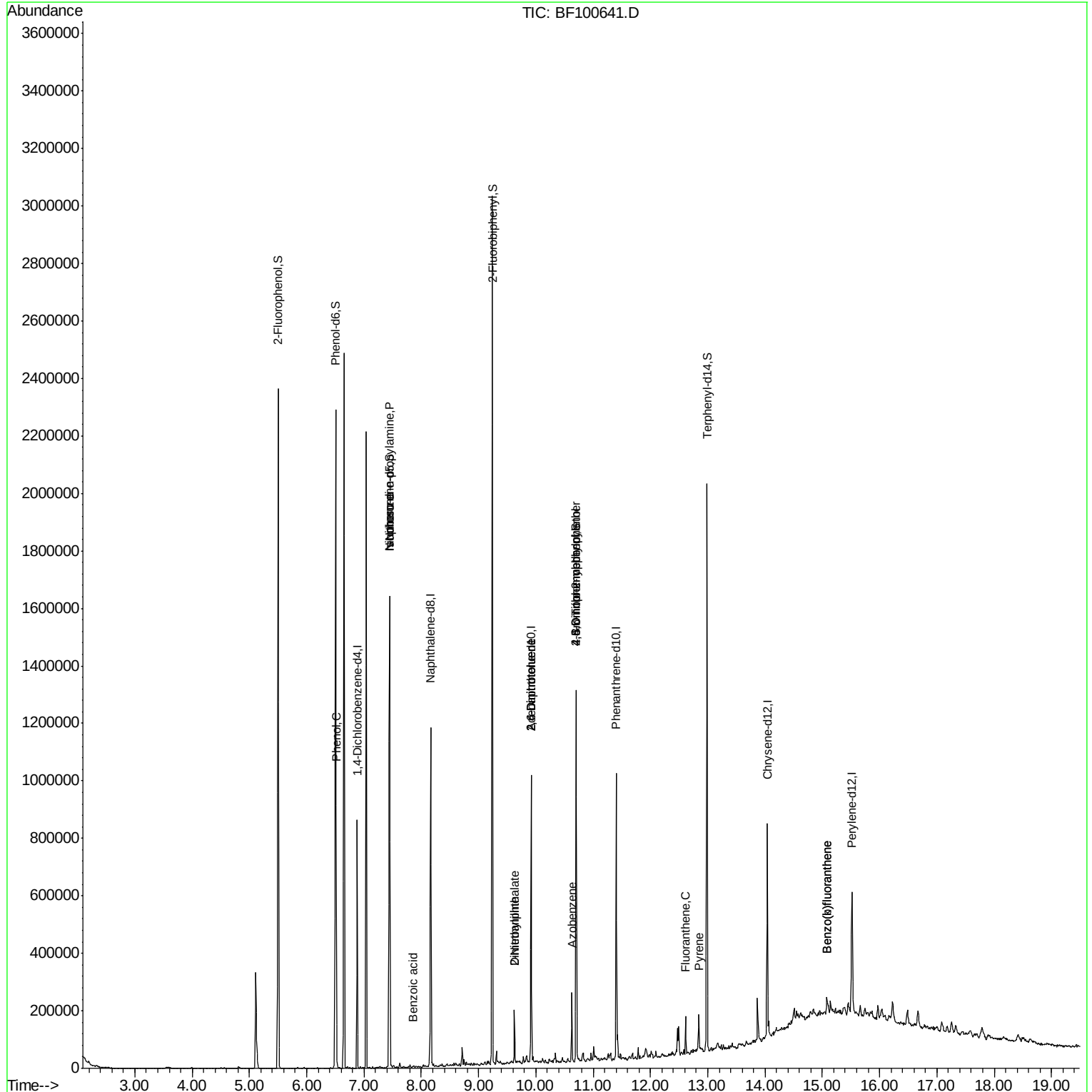
Quant Time: Nov 17 01:10:40 2017

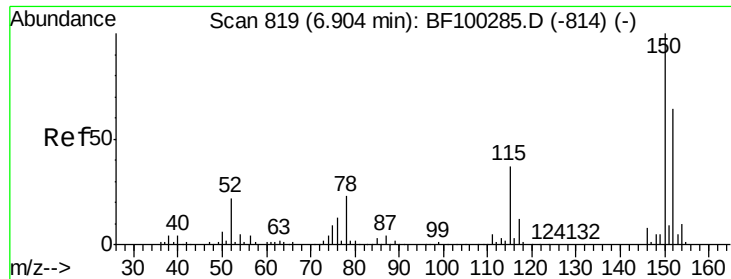
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M

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QLast Update : Thu Nov 16 12:15:03 2017

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 815

Delta R.T. -0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD

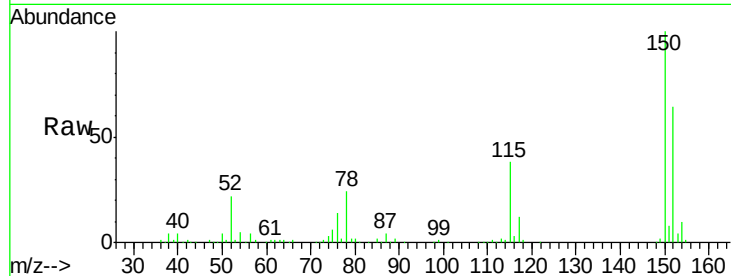
Tgt Ion:152 Resp: 124341

Ion Ratio Lower Upper

152 100

150 156.5 124.6 186.8

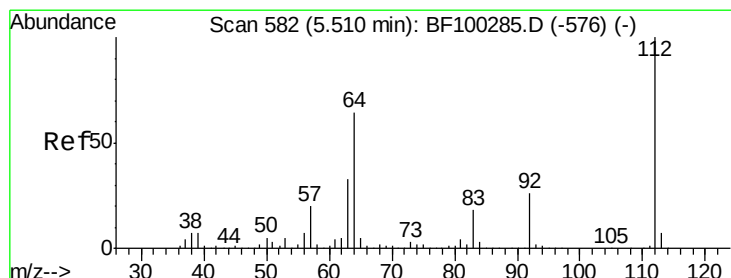
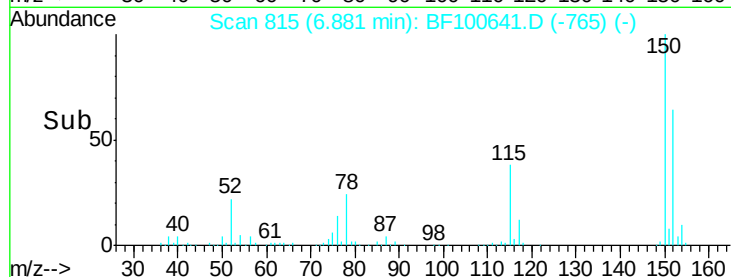
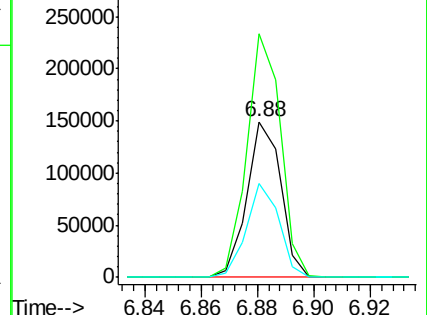
115 60.1 50.1 75.1



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: 91.29 ng

RT: 5.50 min Scan# 581

Delta R.T. 0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

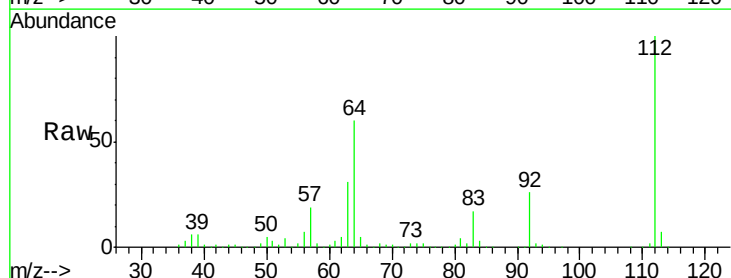
Tgt Ion:112 Resp: 708096

Ion Ratio Lower Upper

112 100

64 59.9 47.9 71.9

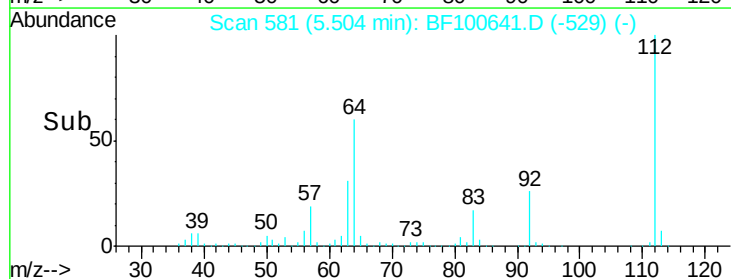
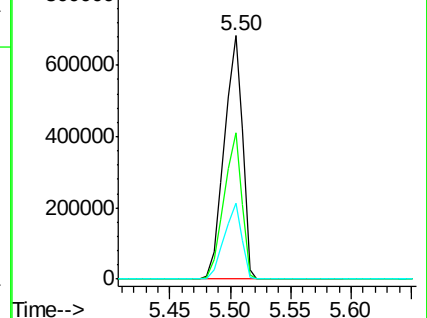
63 31.0 23.7 35.5

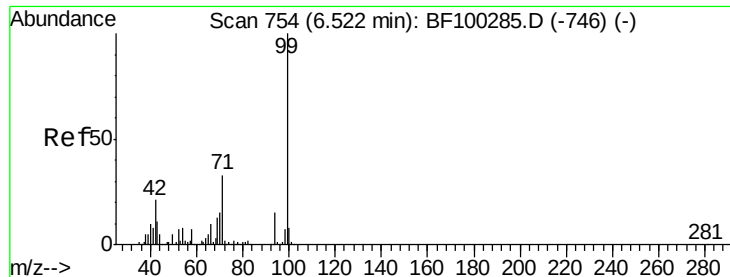


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 89.63 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

Instrument :

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FK-EF-01-004-ABCD

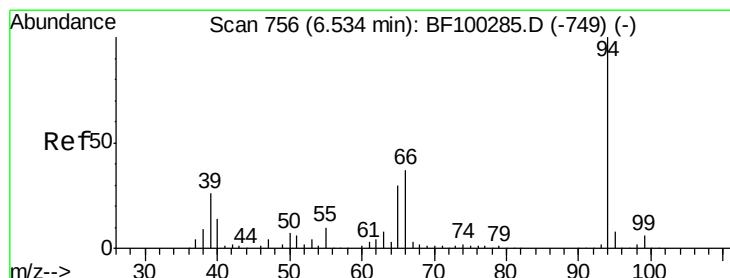
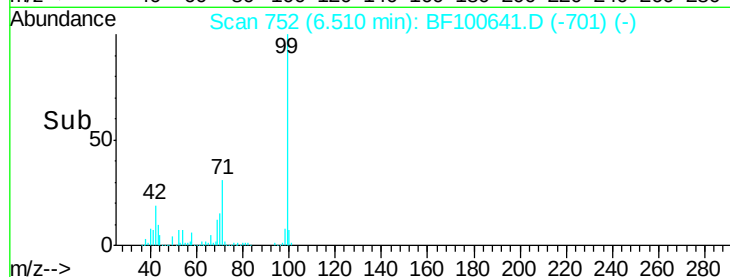
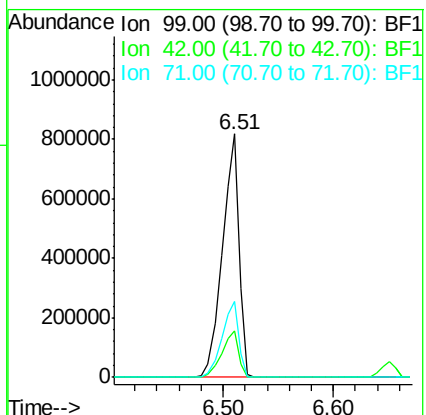
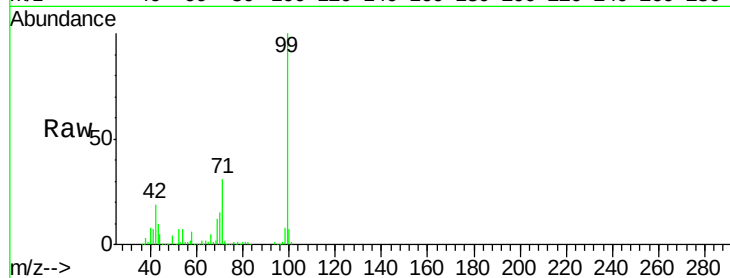
Tgt Ion: 99 Resp: 857354

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

71 31.3 25.4 38.0



#10

Phenol

Concen: 3.50 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

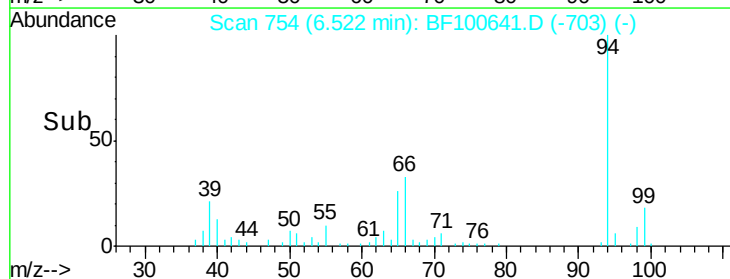
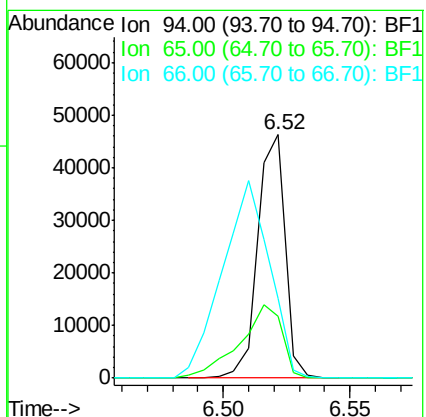
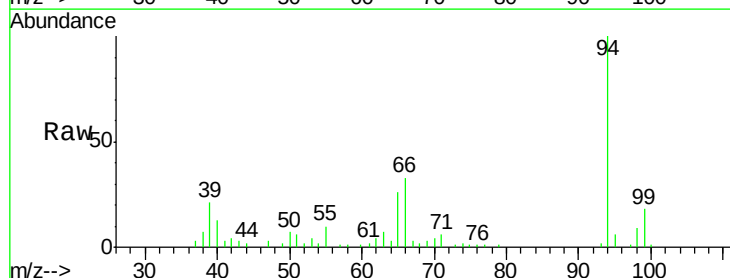
Tgt Ion: 94 Resp: 35109

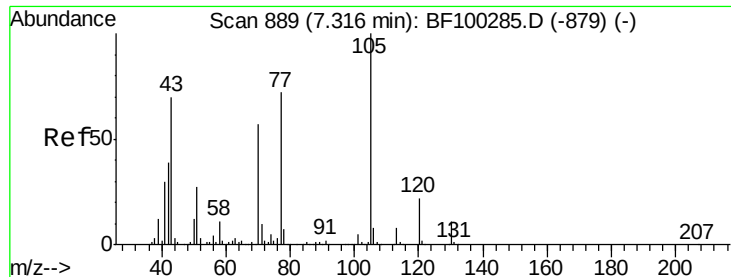
Ion Ratio Lower Upper

94 100

65 25.7 7.9 47.9

66 32.5 16.2 56.2

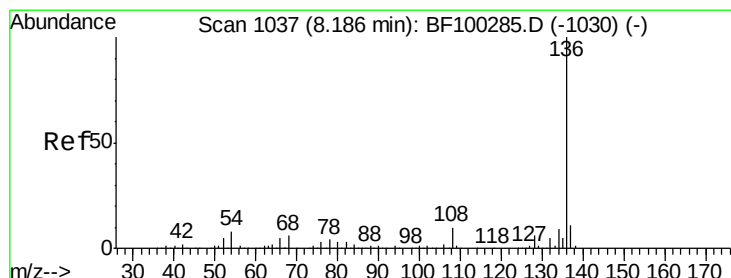
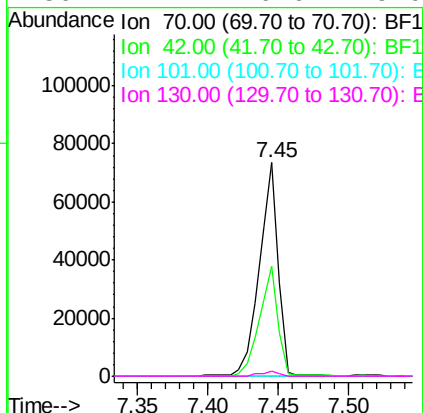
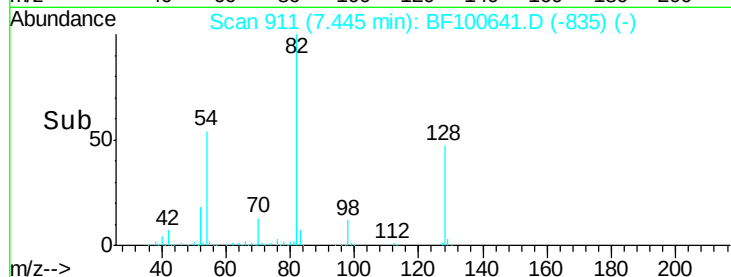
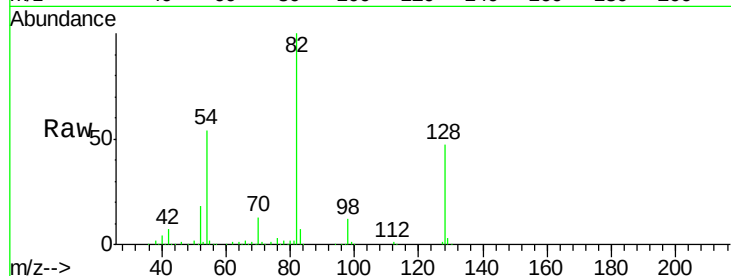




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.52 ng  
RT: 7.45 min Scan# 911  
Delta R.T. 0.15 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

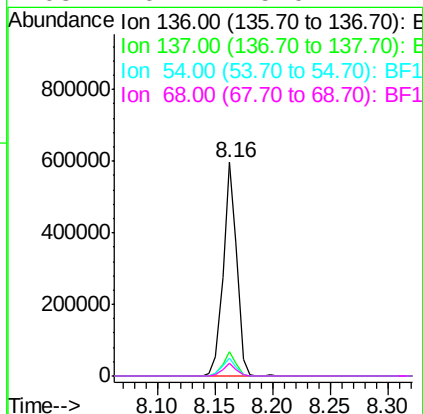
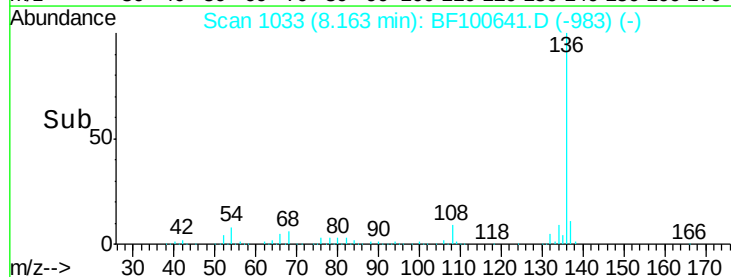
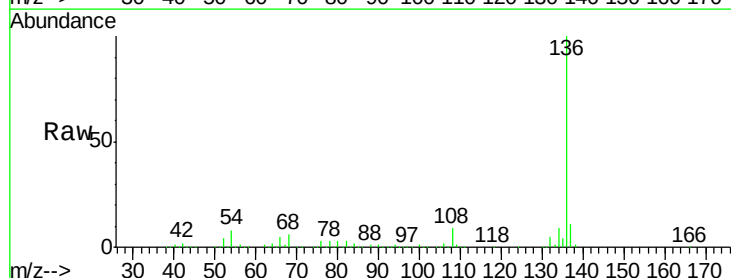
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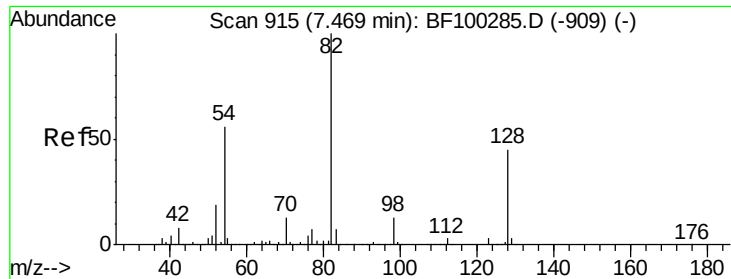
Tgt Ion: 70 Resp: 69812  
Ion Ratio Lower Upper  
70 100  
42 51.5 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.2 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

Tgt Ion: 136 Resp: 482331  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.9 13.3  
54 8.4 6.6 9.8  
68 6.2 5.0 7.4

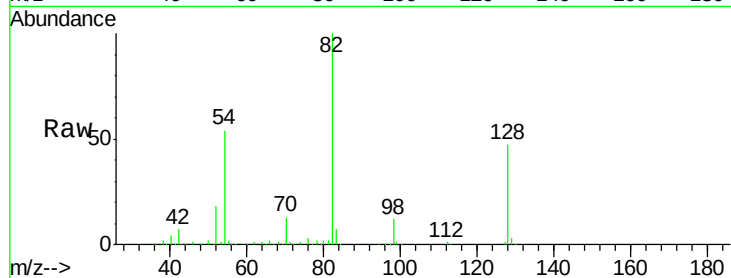




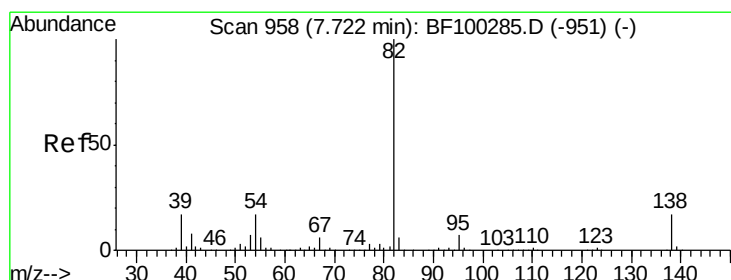
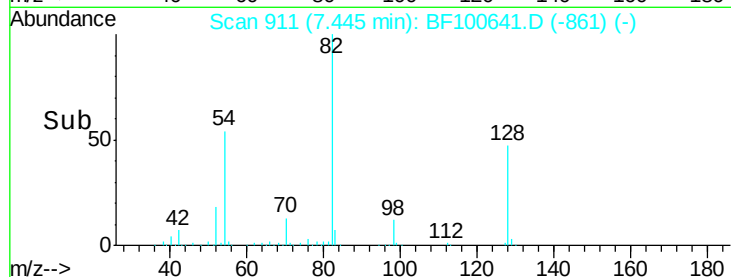
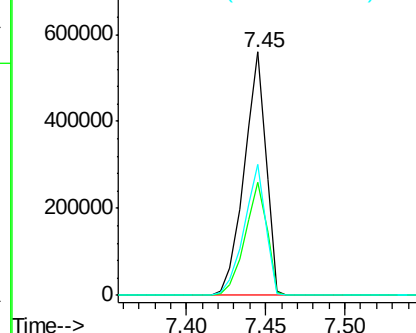
#23  
 Nitrobenzene-d5  
 Concen: 72.65 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-004-ABCD

Tgt Ion: 82 Resp: 530040  
 Ion Ratio Lower Upper  
 82 100  
 128 46.5 36.1 54.1  
 54 53.8 41.4 62.2

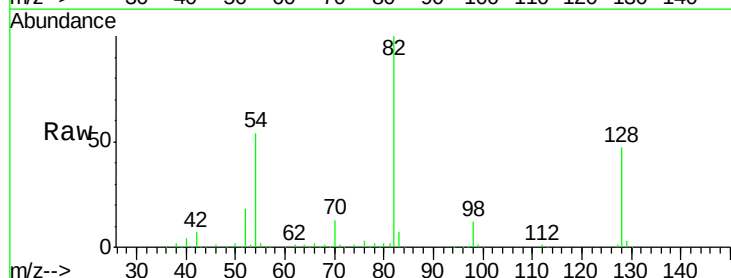


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

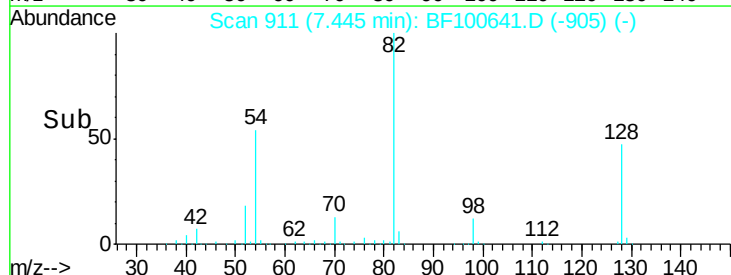
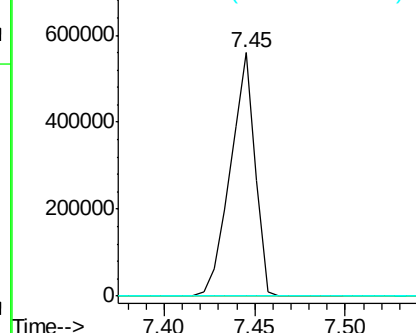


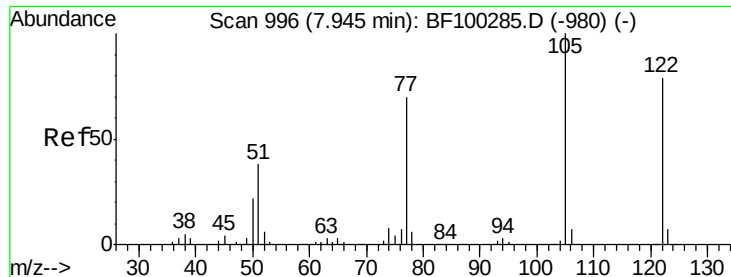
#25  
 Isophorone  
 Concen: 34.46 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.26 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

Tgt Ion: 82 Resp: 528250  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1





#32

Benzoic acid

Concen: 9.65 ng

RT: 7.86 min Scan# 981

Delta R.T. -0.08 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD

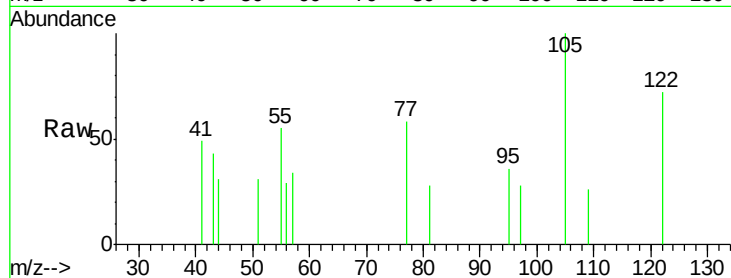
Tgt Ion:122 Resp: 1815

Ion Ratio Lower Upper

122 100

105 138.0 101.1 141.1

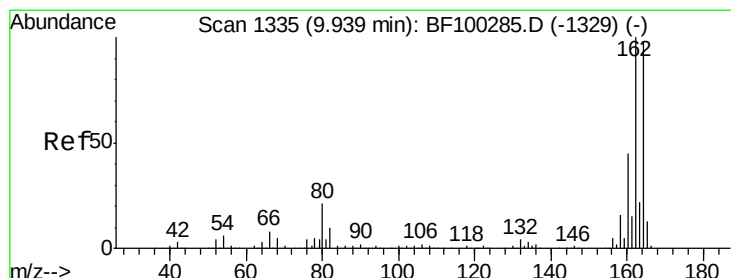
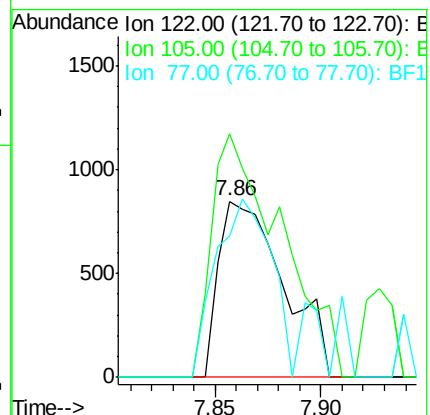
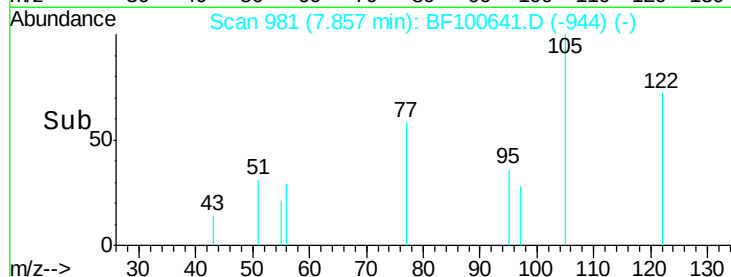
77 80.2 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

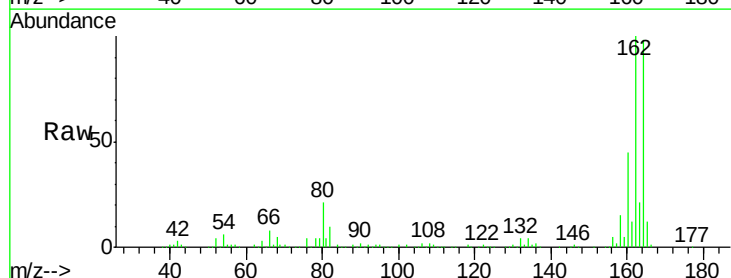
Tgt Ion:164 Resp: 207634

Ion Ratio Lower Upper

164 100

162 102.0 86.1 129.1

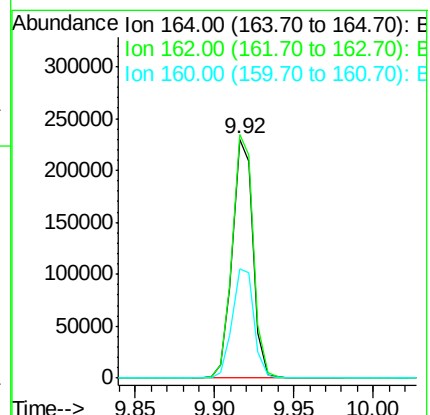
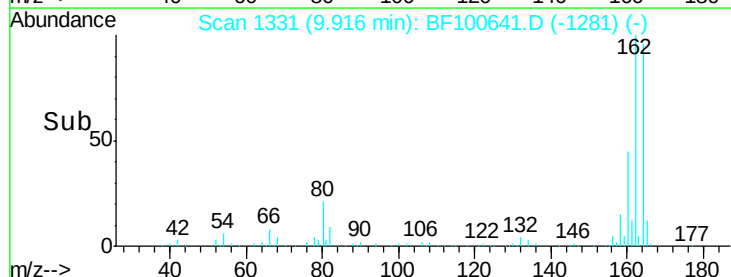
160 45.8 38.3 57.5

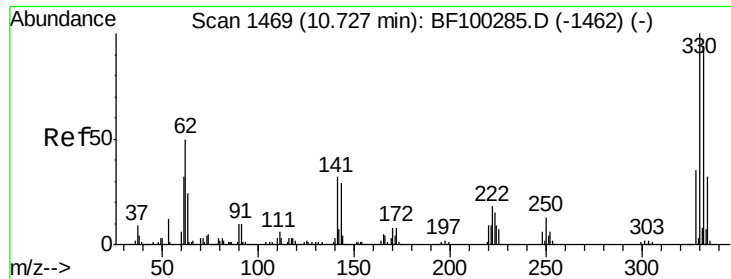


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

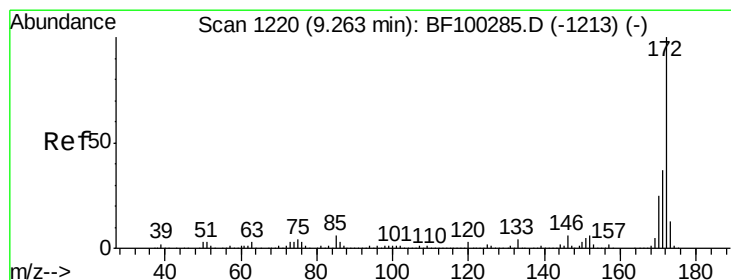
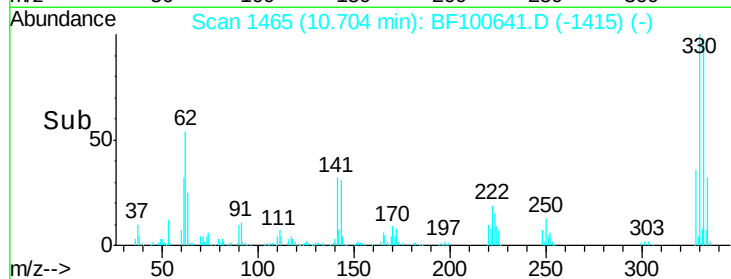
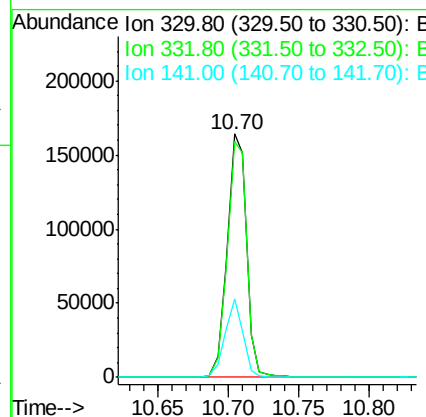
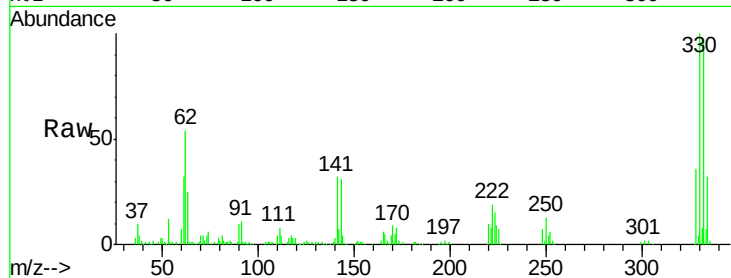




#41  
 2,4,6-Tribromophenol  
 Concen: 73.97 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

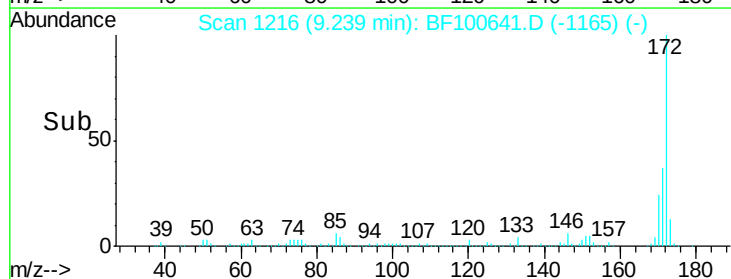
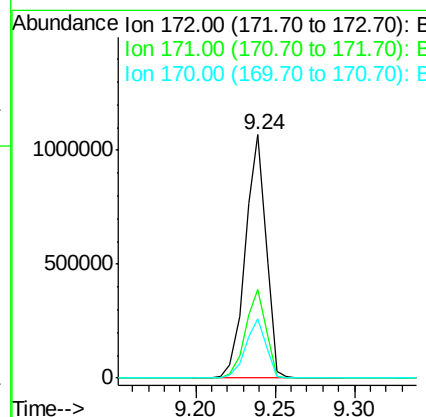
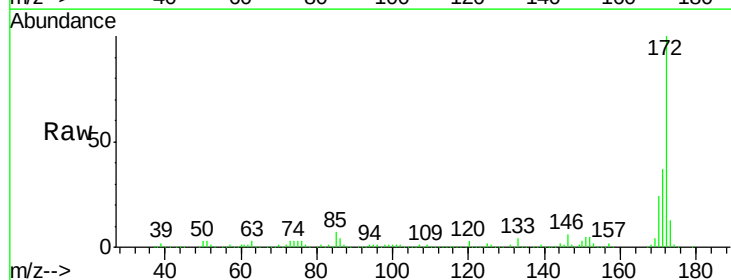
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-004-ABCD

Tgt Ion: 330 Resp: 156504  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 77.0 115.6  
 141 29.9 29.9 44.9#

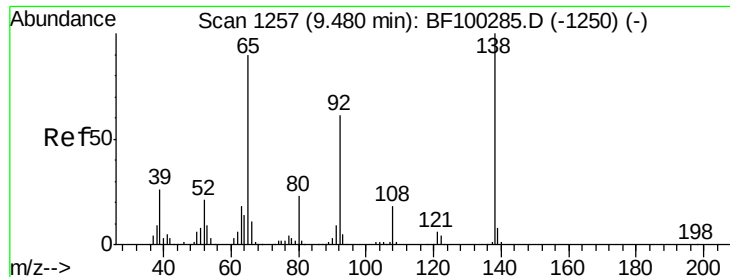


#44  
 2-Fluorobiphenyl  
 Concen: 70.40 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.00 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

Tgt Ion: 172 Resp: 959999  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.7 44.5  
 170 24.1 19.6 29.4







#47

2-Nitroaniline

Concen: 2.94 ng

RT: 9.63 min Scan# 1282

Delta R.T. 0.16 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD

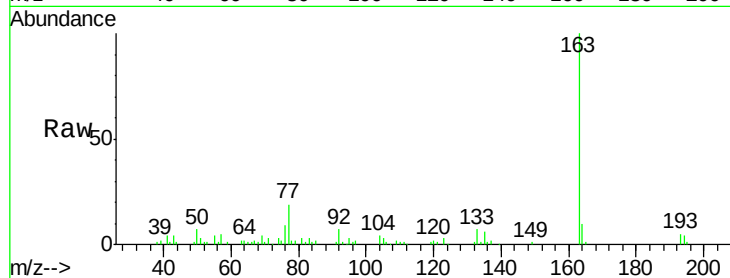
Tgt Ion: 65 Resp: 643

Ion Ratio Lower Upper

65 100

92 571.3 55.8 83.6#

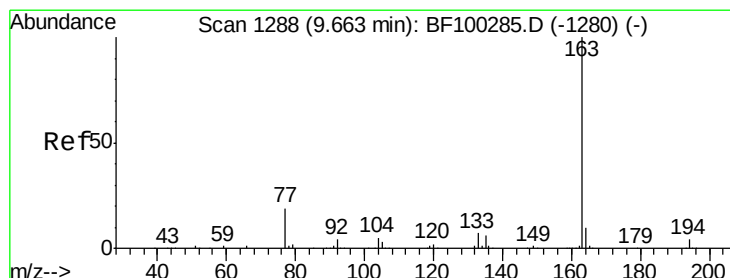
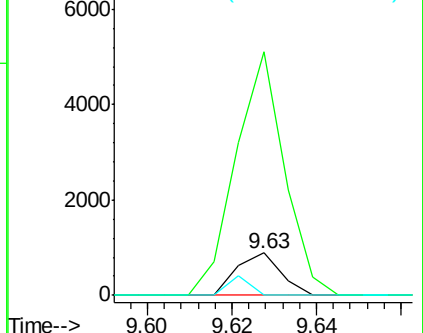
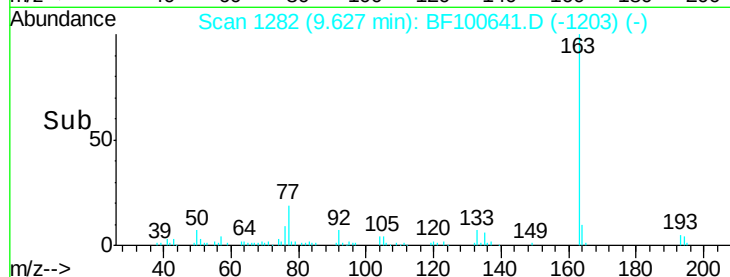
138 0.0 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#49

Dimethylphthalate

Concen: 3.53 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

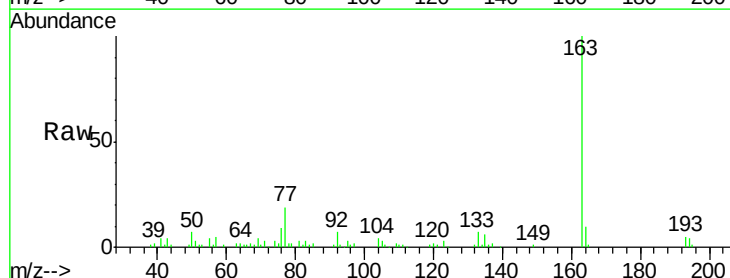
Tgt Ion: 163 Resp: 56006

Ion Ratio Lower Upper

163 100

194 4.3 2.7 4.1#

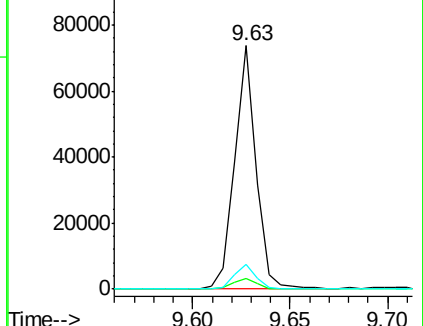
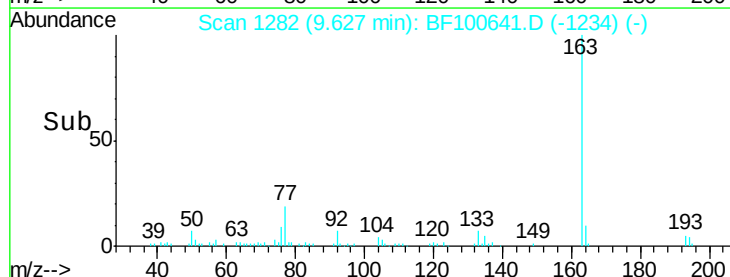
164 10.1 8.2 12.2

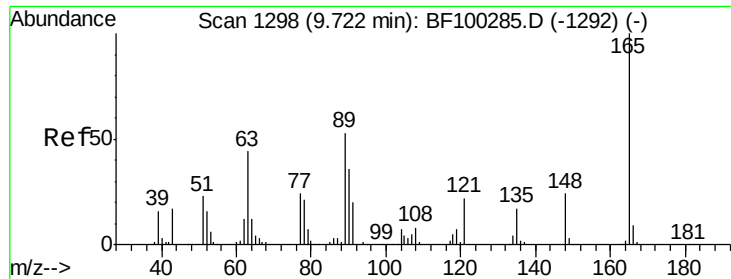


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

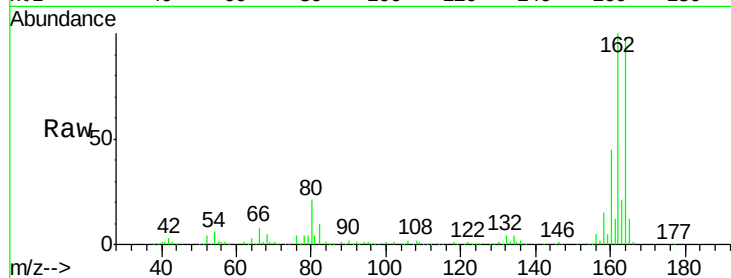




#50  
 2,6-Dinitrotoluene  
 Concen: 8.33 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. 0.21 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-004-ABCD

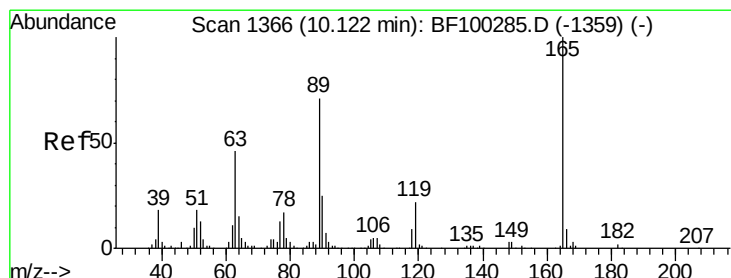
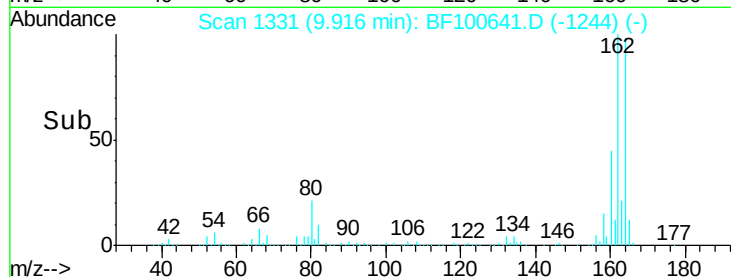
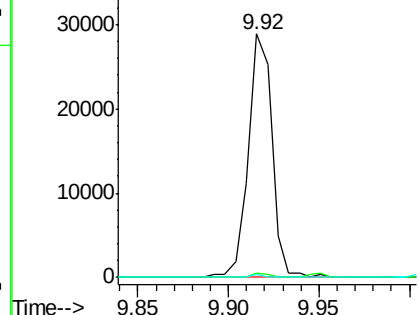
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 44.7  | 67.1# |
| 89      | 1.2   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

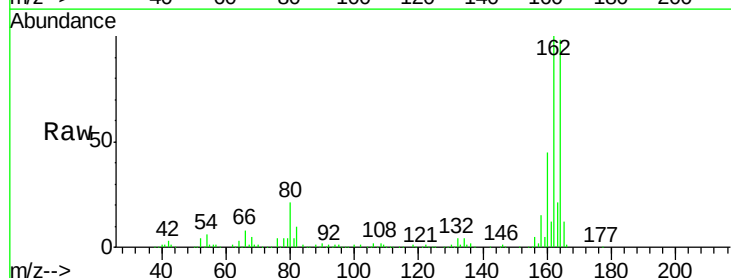
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
 2,4-Dinitrotoluene  
 Concen: 6.60 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

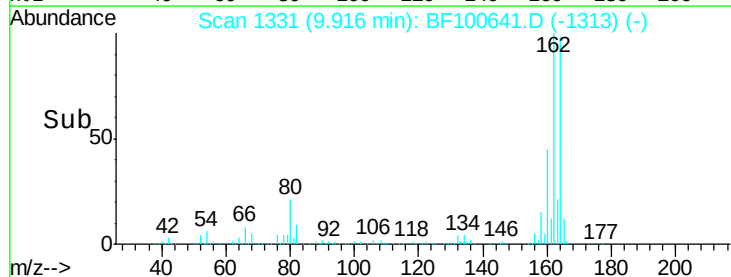
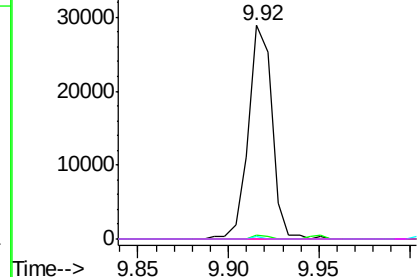


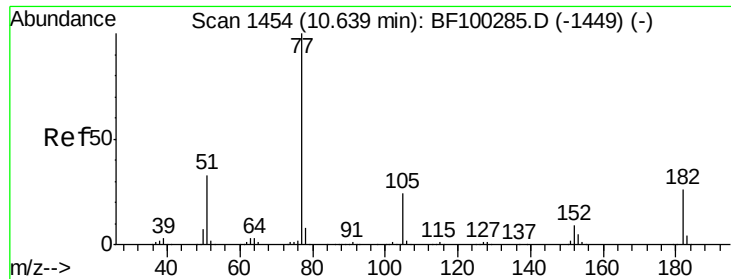
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#62

Azobenzene

Concen: 2.49 ng

RT: 10.63 min Scan# 1452

Delta R.T. 0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD

Tgt Ion: 77 Resp: 37239

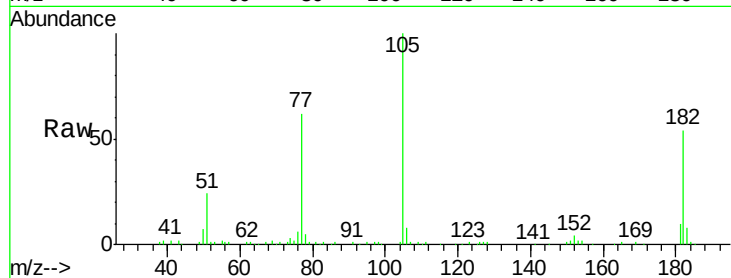
Ion Ratio Lower Upper

77 100

182 87.2 1.7 41.7#

105 161.4 3.0 43.0#

51 39.5 9.9 49.9



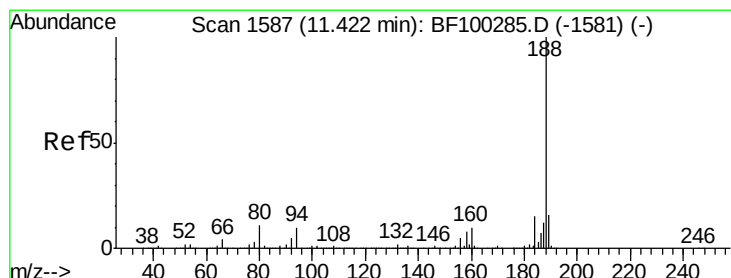
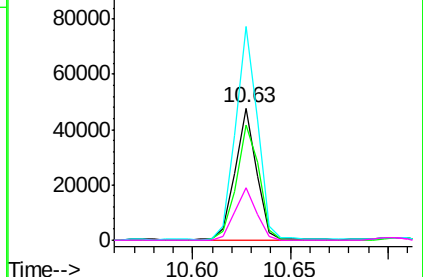
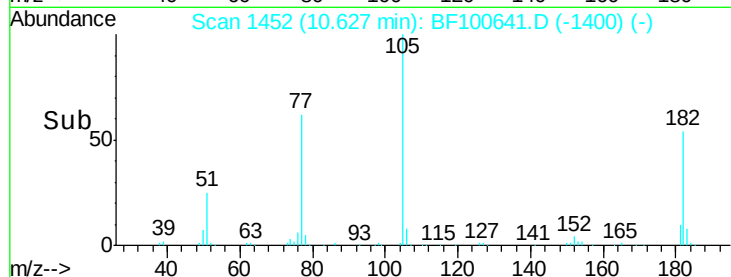
Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.00 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

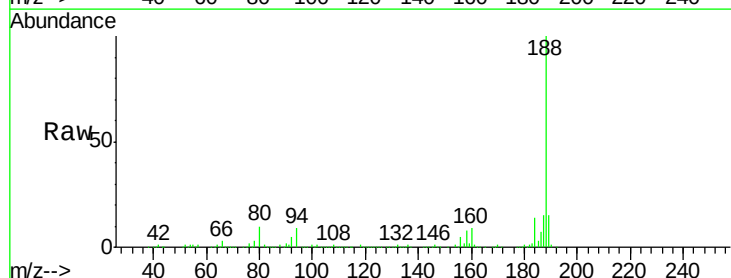
Tgt Ion: 188 Resp: 326025

Ion Ratio Lower Upper

188 100

94 8.8 8.5 12.7

80 9.9 9.2 13.8

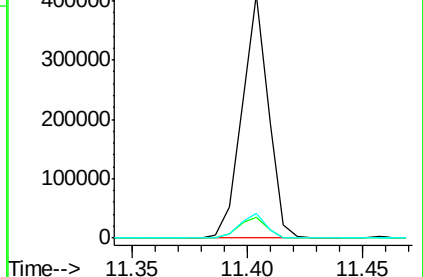
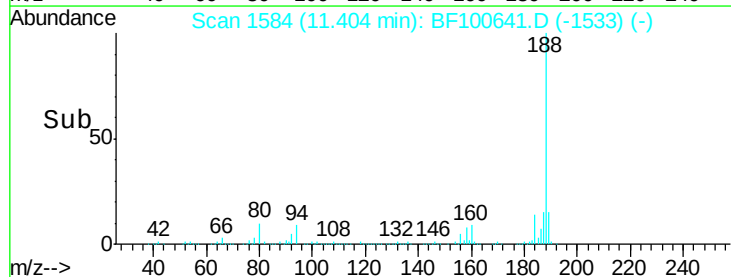


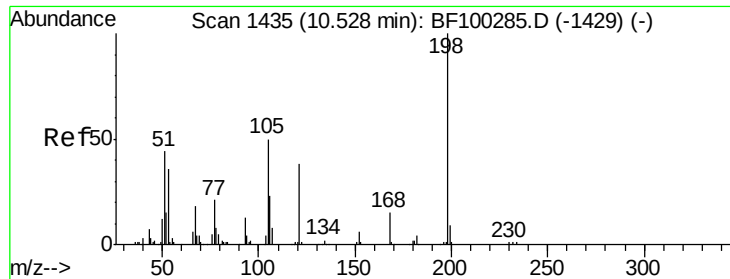
Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->

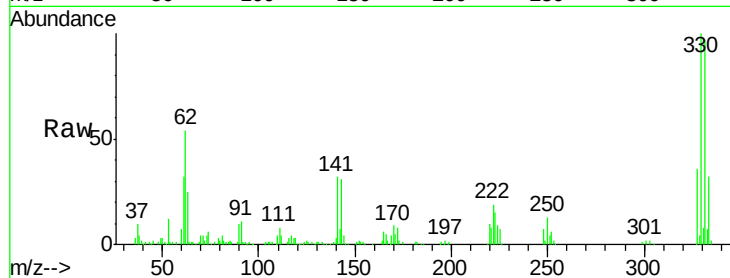




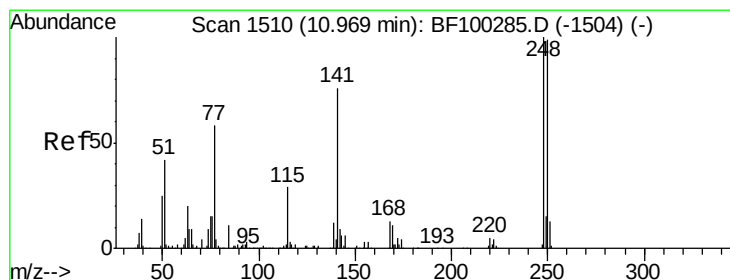
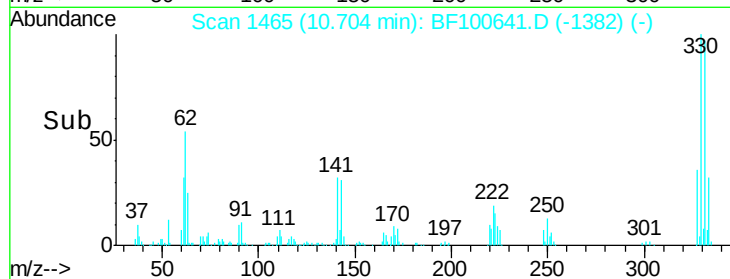
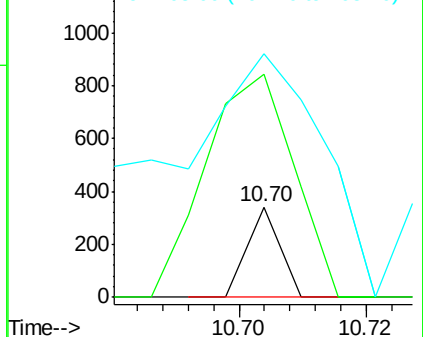
#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.63 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. 0.19 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-004-ABCD

Tgt Ion:198 Resp: 120  
Ion Ratio Lower Upper  
198 100  
51 248.2 37.7 77.7#  
105 270.6 36.3 76.3#

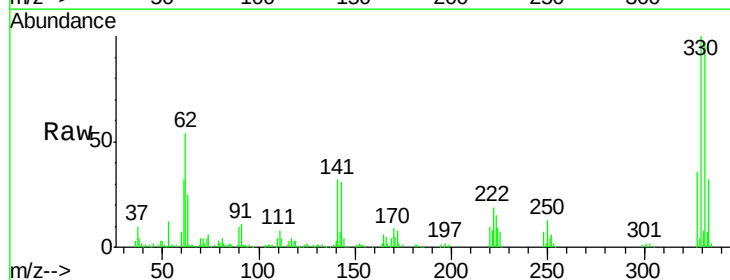


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

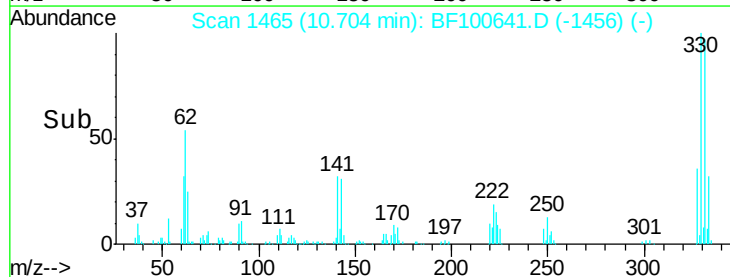
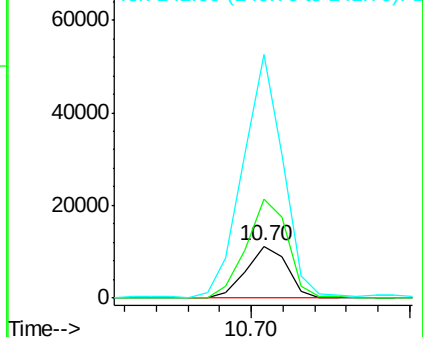


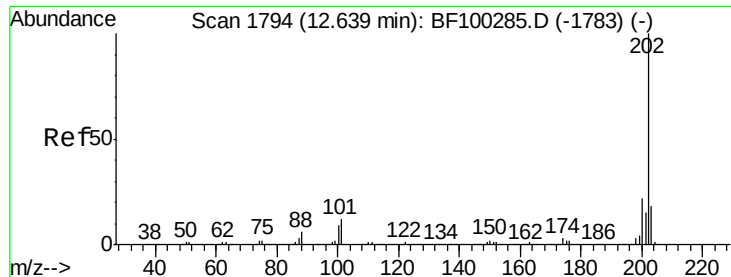
#66  
4-Bromophenyl-phenylether  
Concen: 2.89 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.25 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

Tgt Ion:248 Resp: 10092  
Ion Ratio Lower Upper  
248 100  
250 191.1 76.9 115.3#  
141 470.7 74.4 111.6#



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





#74

Fluoranthene

Concen: 2.68 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

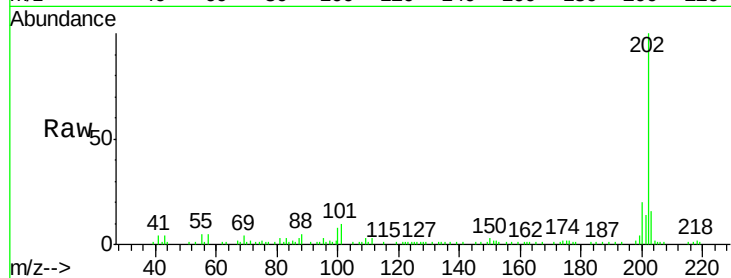
Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD

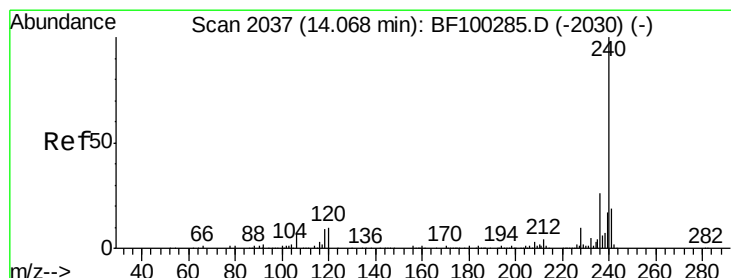
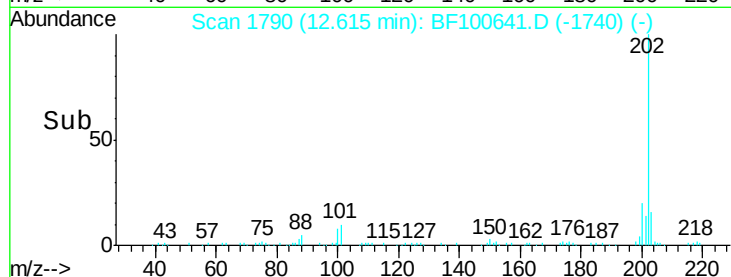
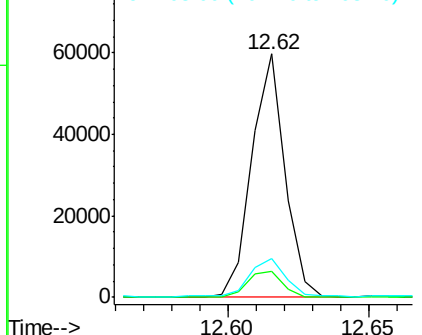
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 48753 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 10.5  | 0.0   | 34.1  |
| 203      | 15.8  | 0.0   | 38.1  |



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

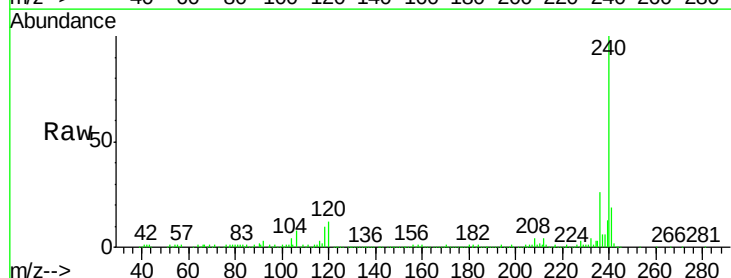
RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF100641.D

Acq: 16 Nov 2017 20:02

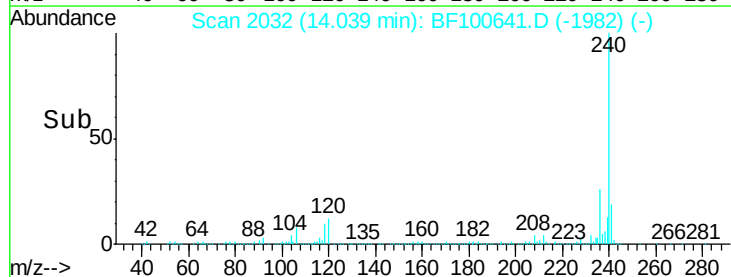
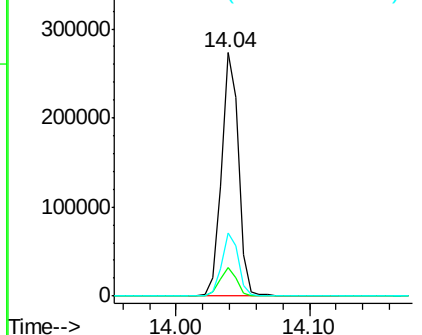
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 246814 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 12.0  | 9.5   | 14.3   |
| 236      | 26.1  | 20.7  | 31.1   |

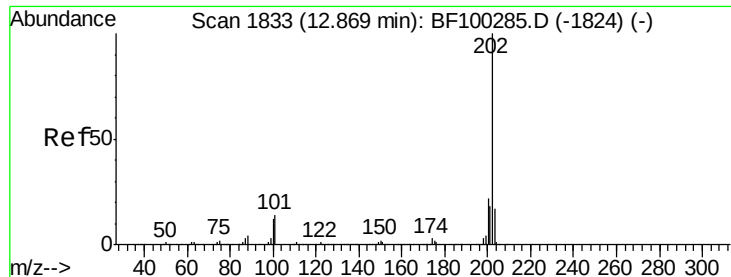


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

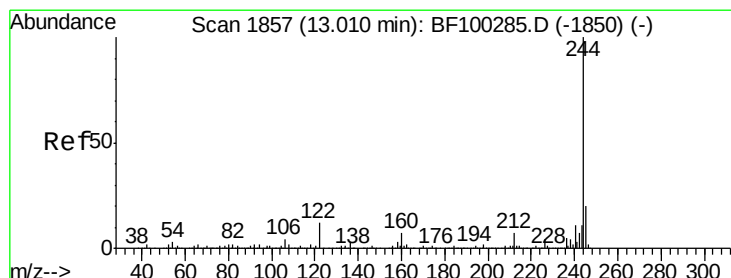
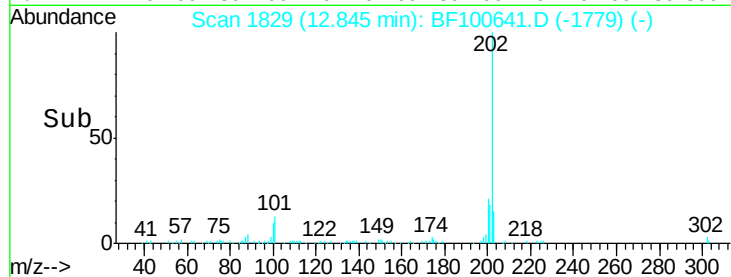
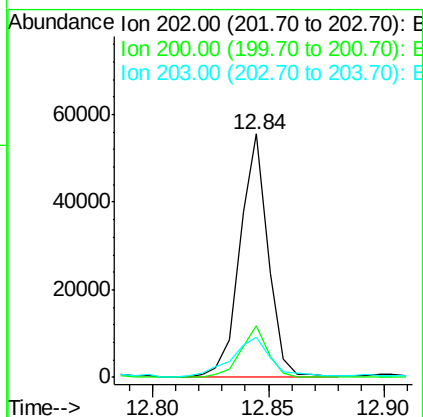
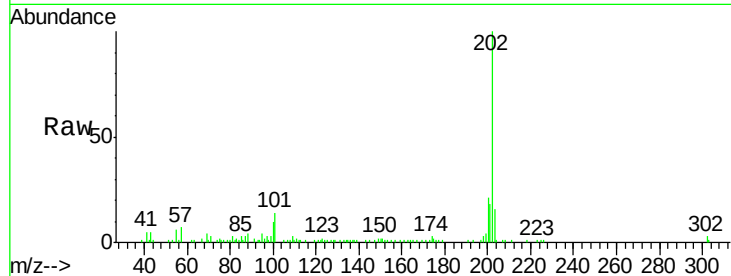




#77  
 Pyrene  
 Concen: 2.70 ng  
 RT: 12.84 min Scan# 1829  
 Delta R.T. -0.01 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

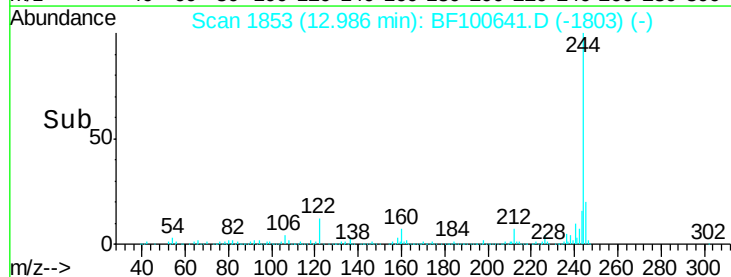
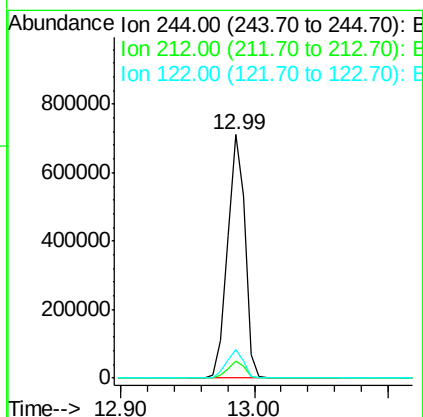
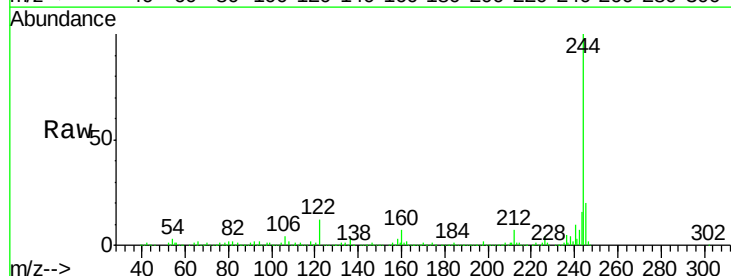
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-004-ABCD

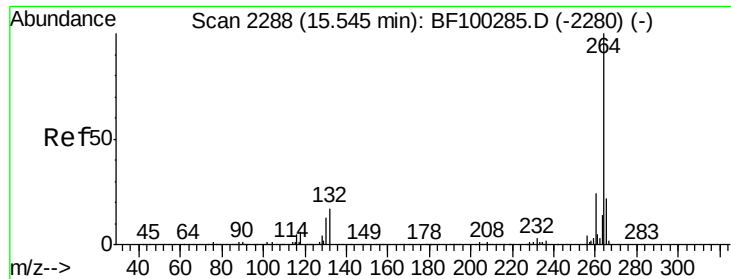
Tgt Ion: 202 Resp: 47525  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 17.4 26.2  
 203 16.4 14.3 21.5



#78  
 Terphenyl-d14  
 Concen: 61.13 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: BF100641.D  
 Acq: 16 Nov 2017 20:02

Tgt Ion: 244 Resp: 656664  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.0  
 122 12.0 11.0 16.4

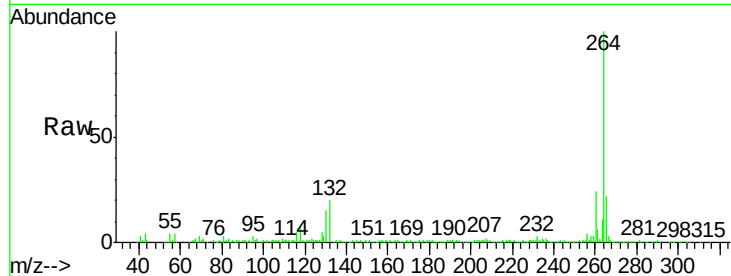




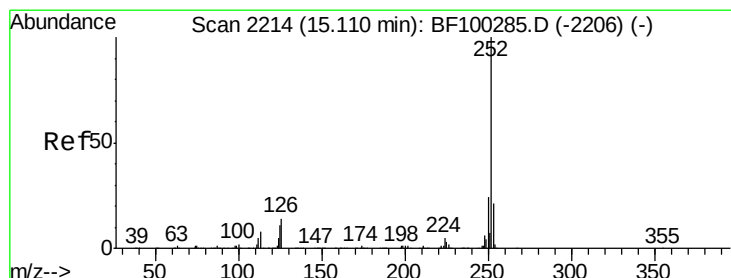
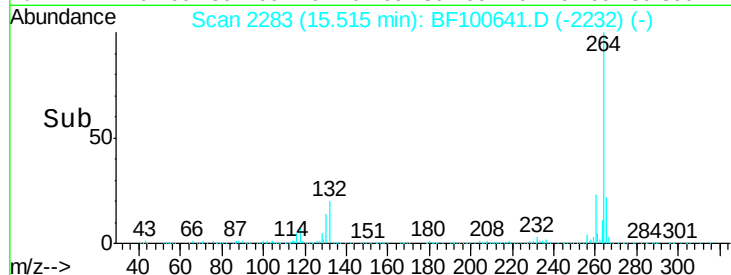
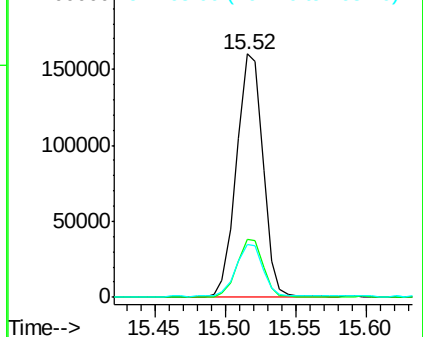
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.52 min Scan# 2283  
Delta R.T. -0.00 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-004-ABCD

Tgt Ion: 264 Resp: 211744  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.2 28.8  
265 21.9 17.5 26.3

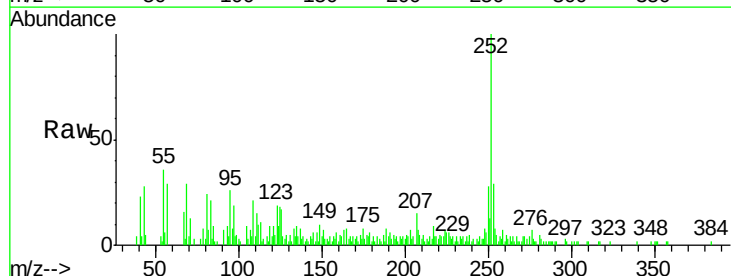


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

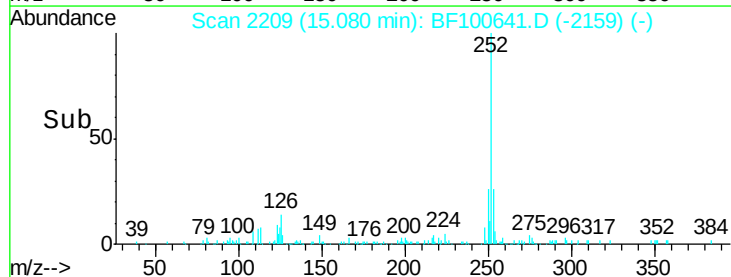
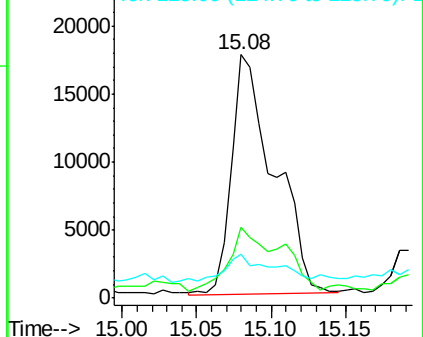


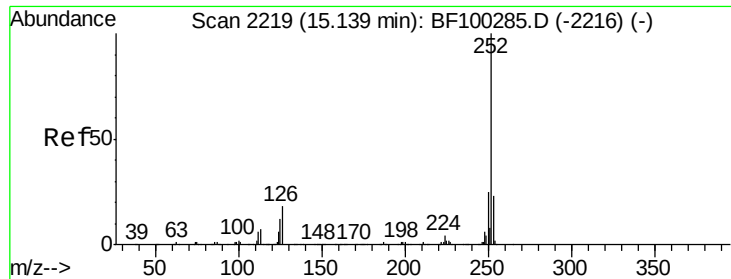
#87  
Benzo(b)fluoranthene  
Concen: 2.80 ng  
RT: 15.08 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: BF100641.D  
Acq: 16 Nov 2017 20:02

Tgt Ion: 252 Resp: 35105  
Ion Ratio Lower Upper  
252 100  
253 28.9 17.0 25.6#  
125 17.9 9.0 13.6#



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





#88

Benzo(k)fluoranthene

Concen: 2.96 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.04 min

Lab File: BF100641.D

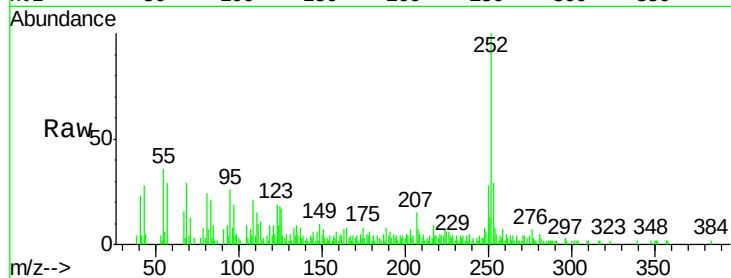
Acq: 16 Nov 2017 20:02

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-004-ABCD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 35105 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 28.9  | 17.9  | 26.9# |
| 125      | 17.9  | 10.2  | 15.2# |

