

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF012815\  
 Data File : BF077099.D  
 Acq On : 28 Jan 2015 13:28  
 Operator : TP/IZ  
 Sample : G1138-02DL 25X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1BDL

Quant Time: Jan 28 16:25:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 28 16:07:35 2015  
 Response via : Initial Calibration

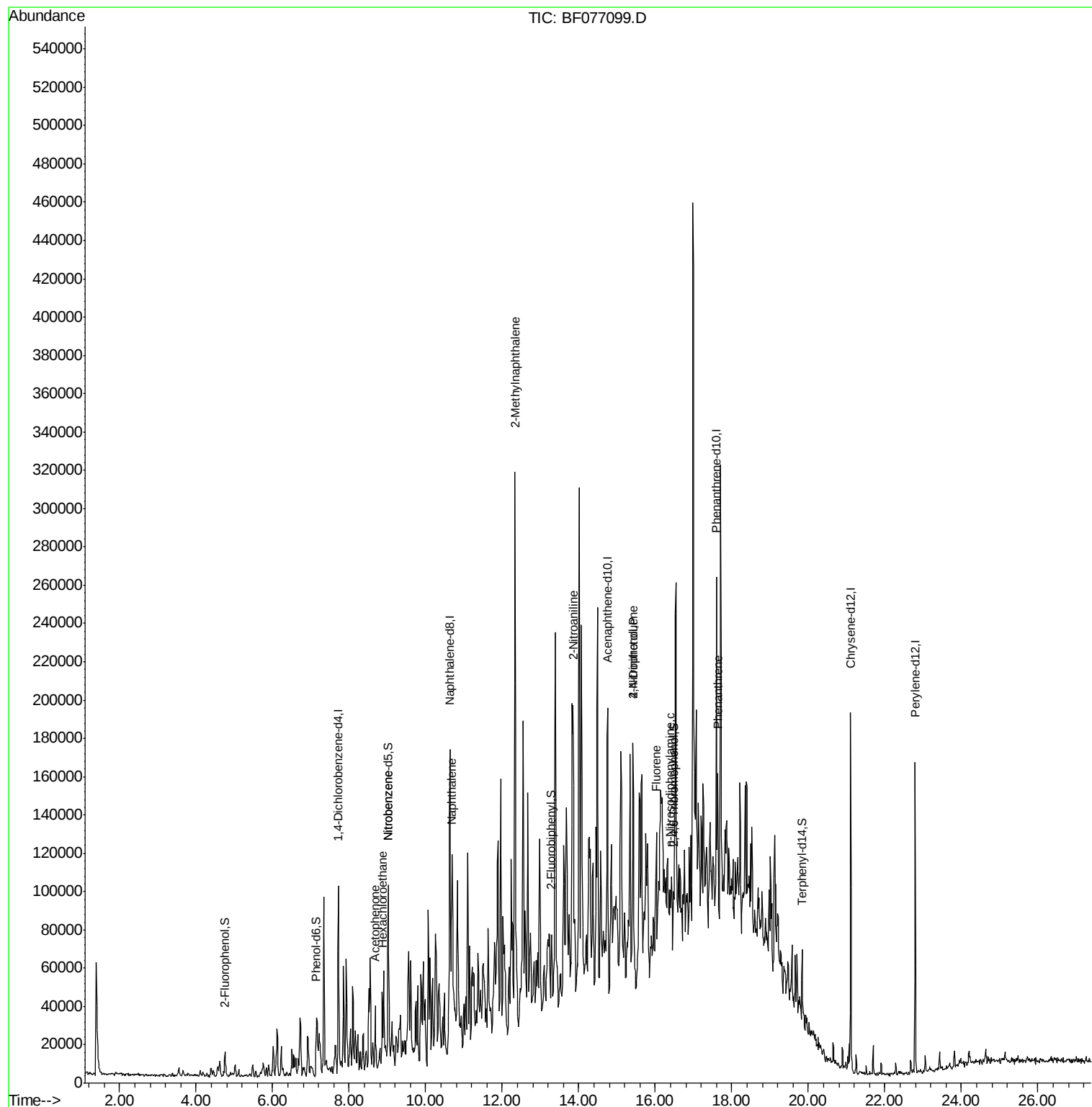
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.72  | 152  | 24719    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.63 | 136  | 99031    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.76 | 164  | 51037    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.60 | 188  | 82322    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.10 | 240  | 79596    | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 22.79 | 264  | 74496    | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.76  | 112  | 7715     | 5.13  | ng    | 0.01     |
| 7) Phenol-d6                | 7.14  | 99   | 9964     | 5.25  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.02  | 82   | 7432     | 4.16  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 16.48 | 330  | 2103     | 5.08  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.28 | 172  | 12512    | 3.73  | ng    | -0.01    |
| 78) Terphenyl-d14           | 19.84 | 244  | 12382    | 3.58  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 18) Hexachloroethane        | 8.86  | 117  | 1635     | 2.25  | ng    | # 1      |
| 22) Acetophenone            | 8.68  | 105  | 21493    | 8.86  | ng    | # 58     |
| 24) Nitrobenzene            | 9.02  | 77   | 4152     | 2.28  | ng    | # 17     |
| 31) Naphthalene             | 10.68 | 128  | 54959    | 10.78 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 12.33 | 142  | 125980   | 36.18 | ng    | 96       |
| 47) 2-Nitroaniline          | 13.85 | 65   | 2584     | 2.74  | ng    | # 11     |
| 55) 4-Nitrophenol           | 15.42 | 139  | 3521     | 6.21  | ng    | # 63     |
| 56) 2,4-Dinitrotoluene      | 15.42 | 165  | 3735     | 5.41  | ng    | # 70     |
| 57) Fluorene                | 16.01 | 166  | 11711    | 3.18  | ng    | # 73     |
| 65) n-Nitrosodiphenylamine  | 16.39 | 169  | 9332     | 3.18  | ng    | # 39     |
| 70) Phenanthrene            | 17.64 | 178  | 36869    | 7.18  | ng    | 97       |

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

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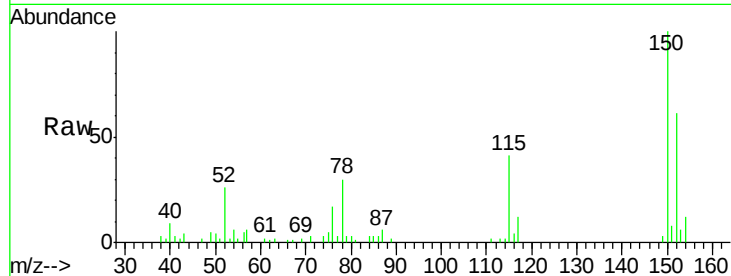




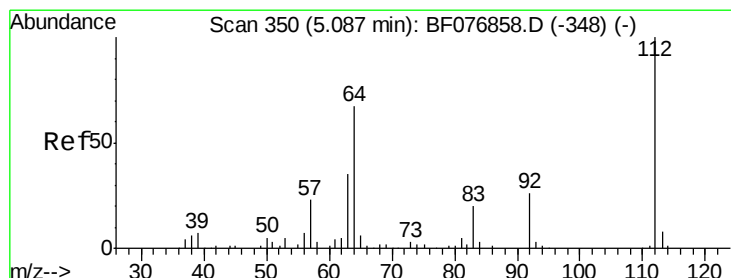
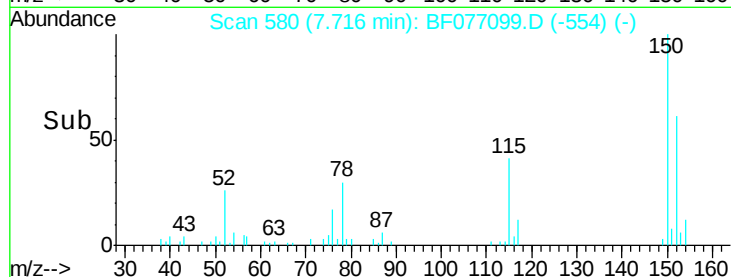
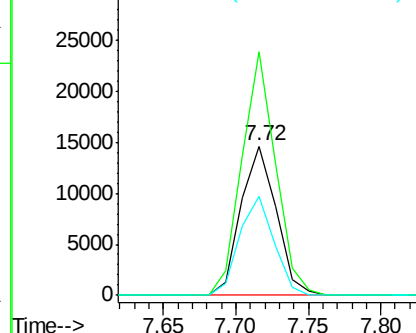
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.72 min Scan# 580  
 Delta R.T. -0.00 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1BDL

Tgt Ion:152 Resp: 24719  
 Ion Ratio Lower Upper  
 152 100  
 150 163.3 121.7 182.5  
 115 66.7 47.0 70.6

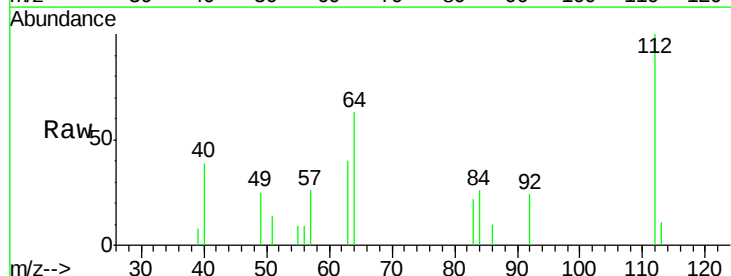


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

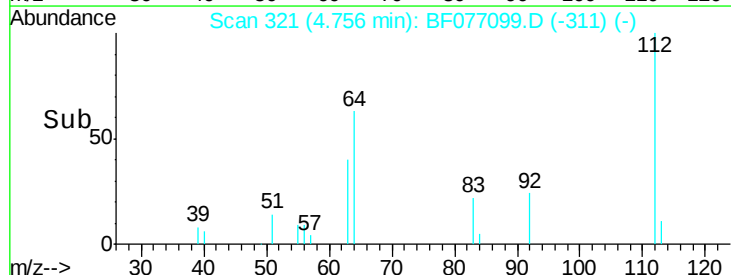
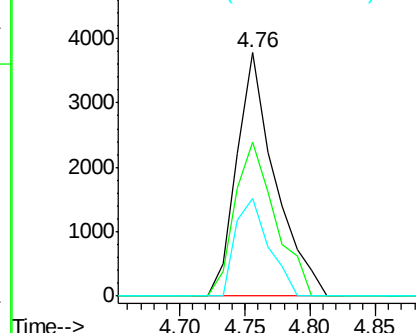


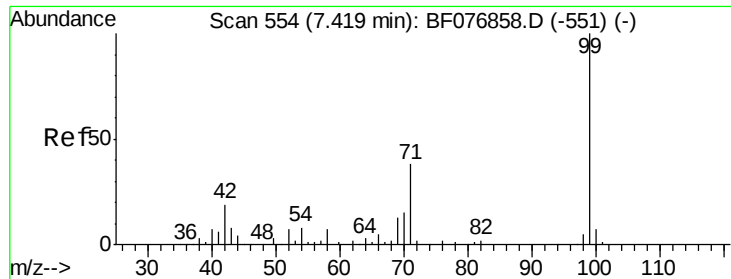
#5  
 2-Fluorophenol  
 Concen: 5.13 ng  
 RT: 4.76 min Scan# 321  
 Delta R.T. 0.01 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

Tgt Ion:112 Resp: 7715  
 Ion Ratio Lower Upper  
 112 100  
 64 63.3 54.2 81.4  
 63 40.1 28.4 42.6



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: 5.25 ng

RT: 7.14 min Scan# 530

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Instrument :

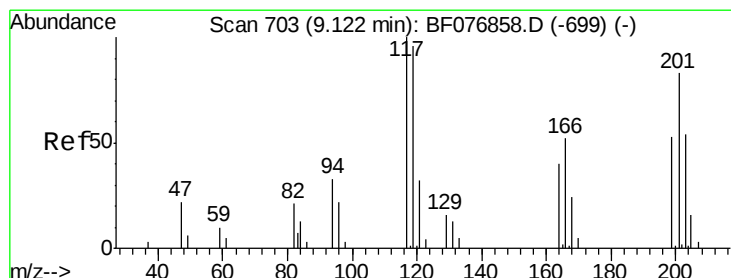
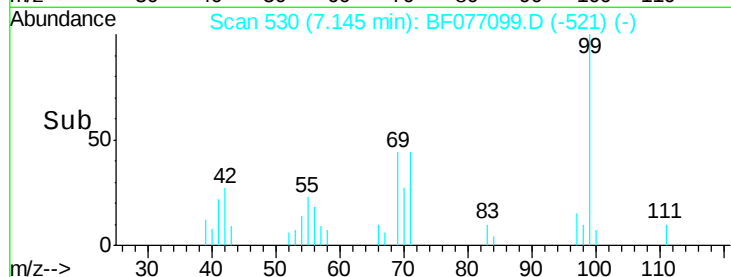
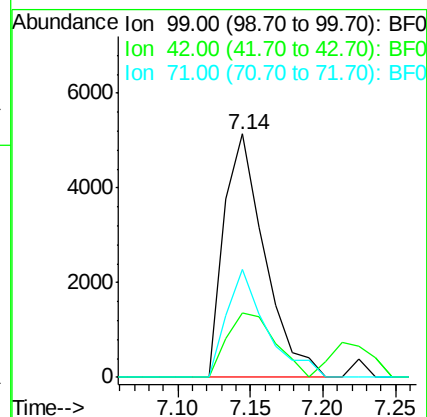
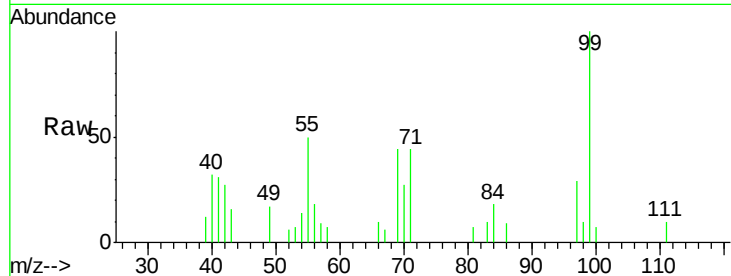
BNA\_F

ClientSampleId :

275B1BDL

Tgt Ion: 99 Resp: 9964

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 26.7  | 15.0  | 22.4# |
| 71  | 44.1  | 30.5  | 45.7  |



#18

Hexachloroethane

Concen: 2.25 ng

RT: 8.86 min Scan# 680

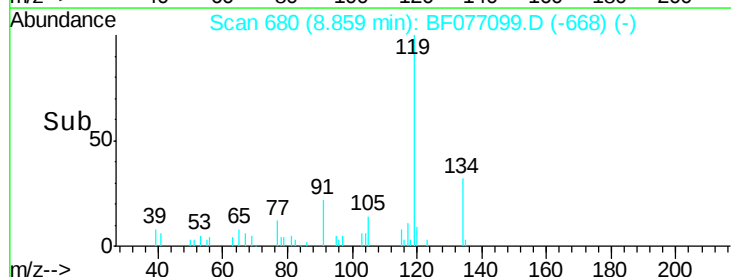
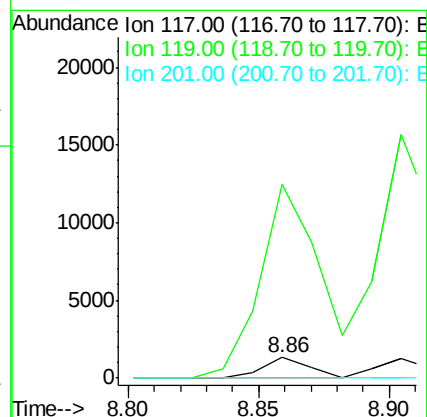
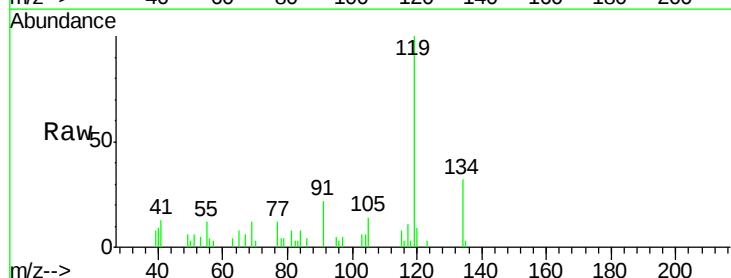
Delta R.T. 0.03 min

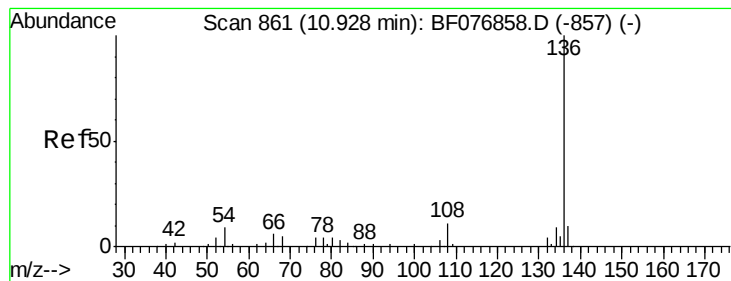
Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Tgt Ion: 117 Resp: 1635

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 936.5 | 77.1  | 115.7# |
| 201 | 0.0   | 66.8  | 100.2# |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.63 min Scan# 835

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Instrument :

BNA\_F

ClientSampleId :

275B1BDL

Tgt Ion:136 Resp: 99031

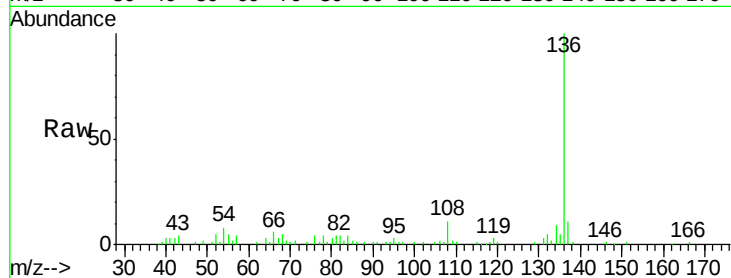
Ion Ratio Lower Upper

136 100

137 11.0 8.1 12.1

54 8.3 7.0 10.4

68 5.4 3.7 5.5

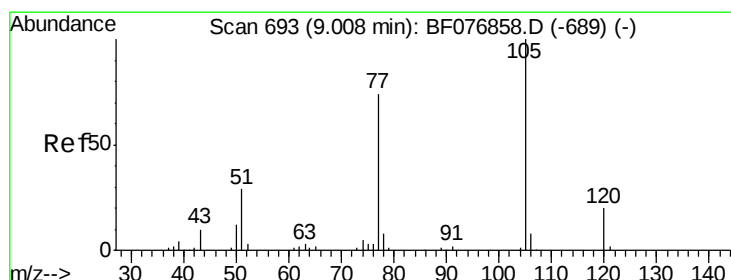
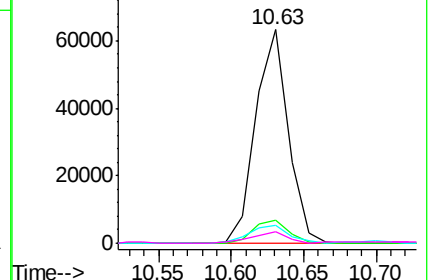
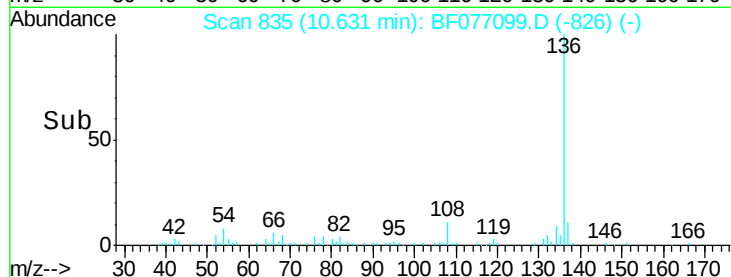


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 8.86 ng

RT: 8.68 min Scan# 664

Delta R.T. -0.05 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Tgt Ion:105 Resp: 21493

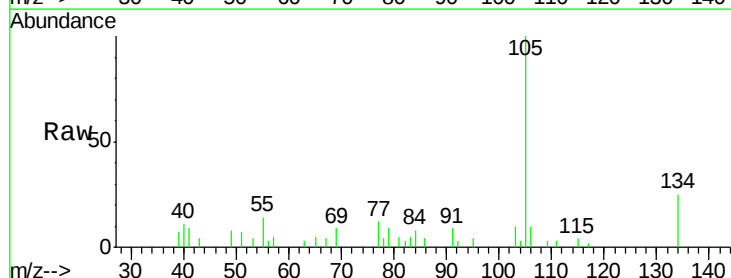
Ion Ratio Lower Upper

105 100

71 0.0 0.0 0.0

51 7.3 23.3 34.9#

120 0.0 16.1 24.1#

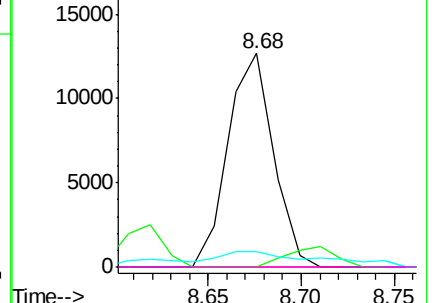
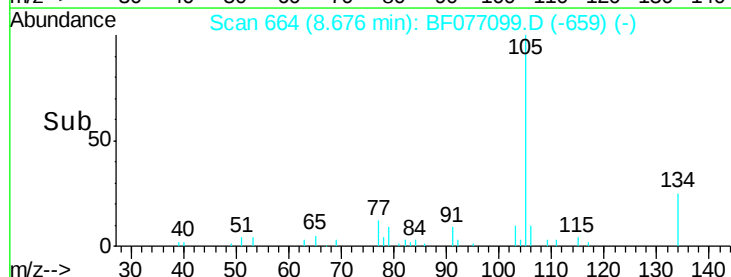


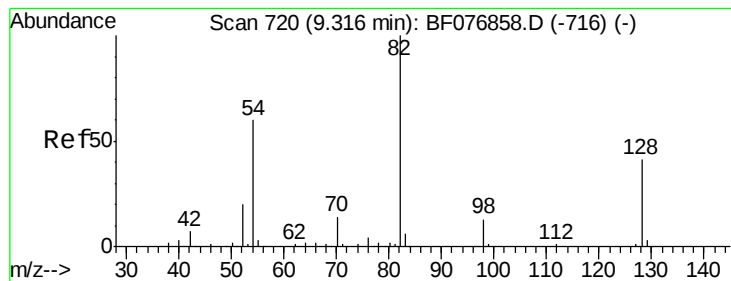
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 4.16 ng

RT: 9.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Instrument :

BNA\_F

ClientSampleId :

275B1BDL

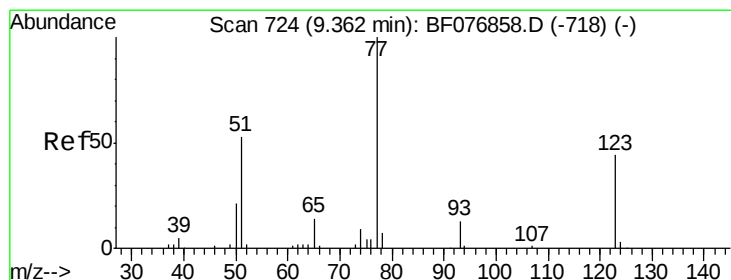
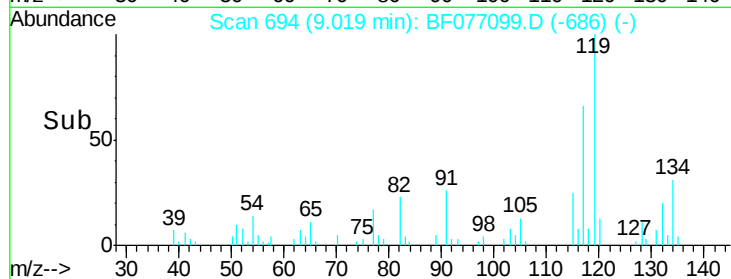
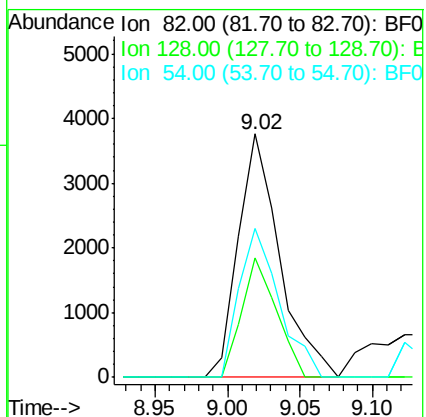
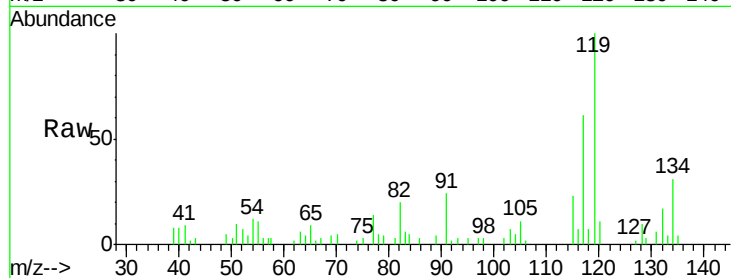
Tgt Ion: 82 Resp: 7432

Ion Ratio Lower Upper

82 100

128 48.9 33.1 49.7

54 61.2 48.3 72.5



#24

Nitrobenzene

Concen: 2.28 ng

RT: 9.02 min Scan# 694

Delta R.T. -0.06 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

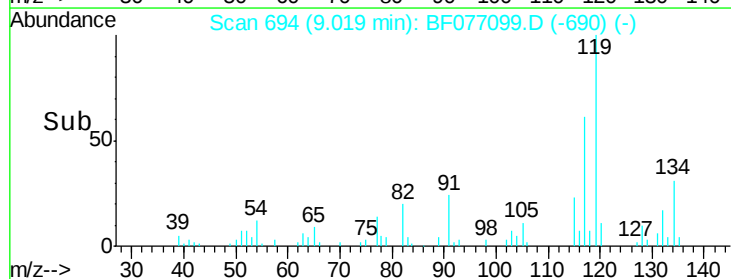
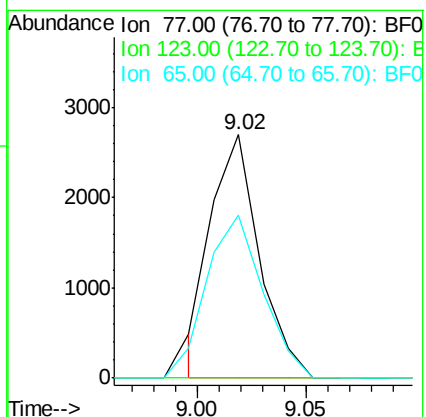
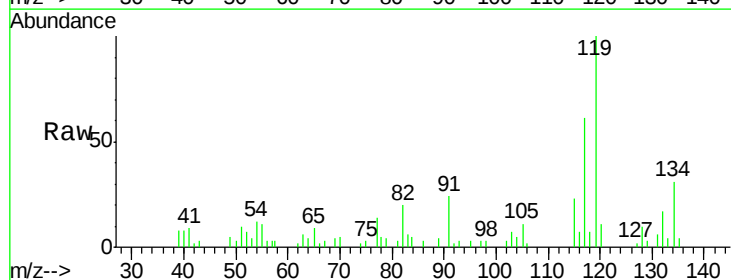
Tgt Ion: 77 Resp: 4152

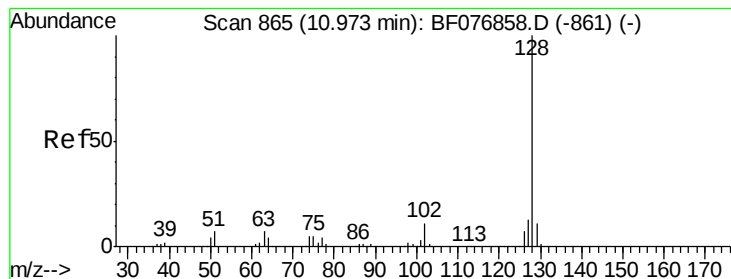
Ion Ratio Lower Upper

77 100

123 0.0 35.2 52.8#

65 66.8 11.4 17.2#





#31

Naphthalene

Concen: 10.78 ng

RT: 10.68 min Scan# 839

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Instrument :

BNA\_F

ClientSampleId :

275B1BDL

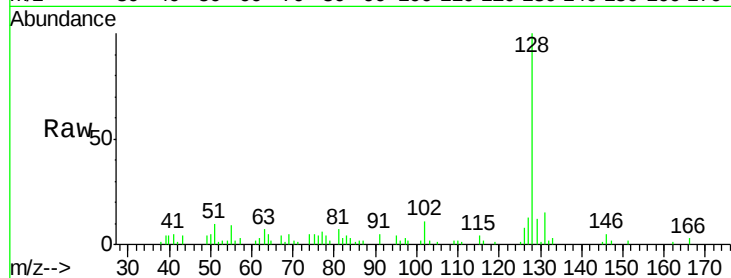
Tgt Ion:128 Resp: 54959

Ion Ratio Lower Upper

128 100

129 11.9 9.0 13.6

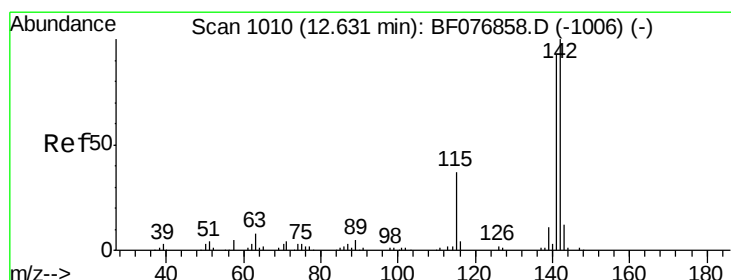
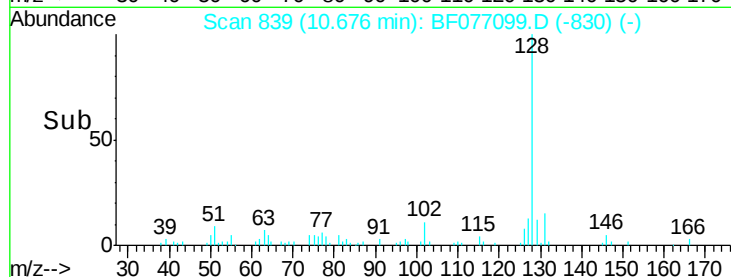
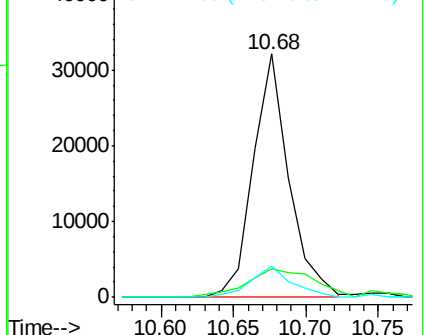
127 13.0 10.2 15.2



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



#37

2-Methylnaphthalene

Concen: 36.18 ng

RT: 12.33 min Scan# 984

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

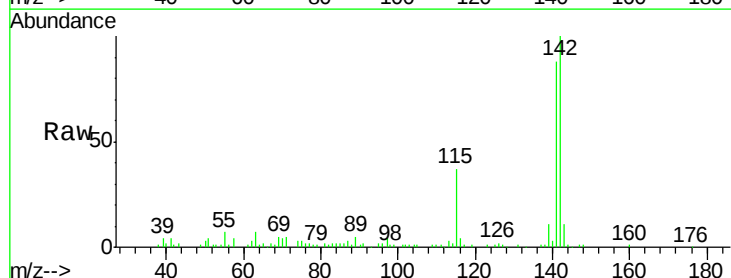
Tgt Ion:142 Resp: 125980

Ion Ratio Lower Upper

142 100

141 88.4 74.5 111.7

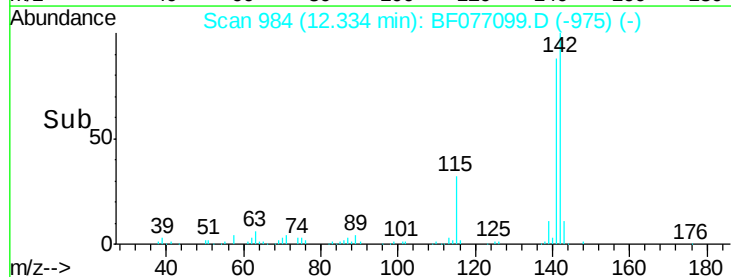
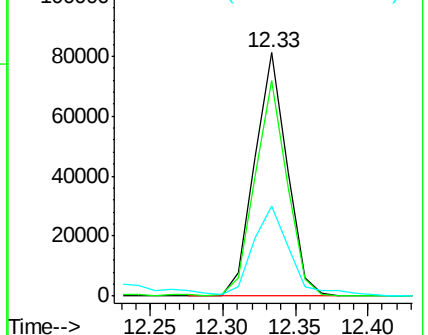
115 37.2 29.7 44.5

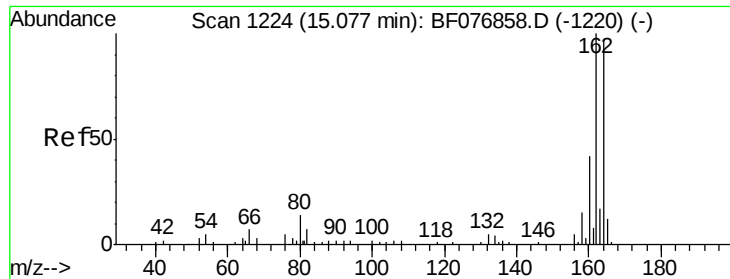


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 1196

Delta R.T. -0.00 min

Lab File: BF077099.D

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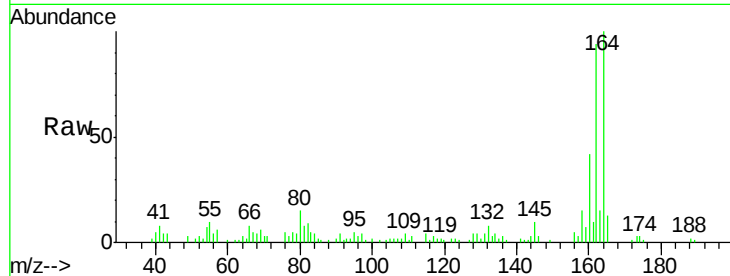
Tgt Ion:164 Resp: 51037

Ion Ratio Lower Upper

164 100

162 94.2 82.4 123.6

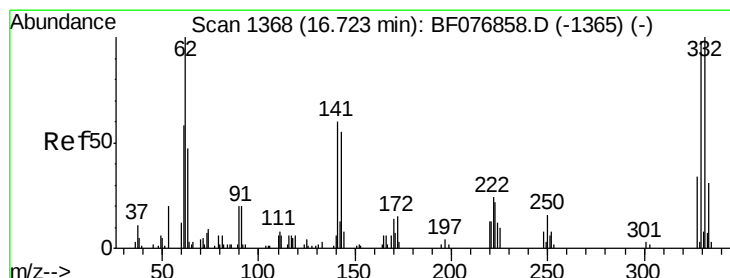
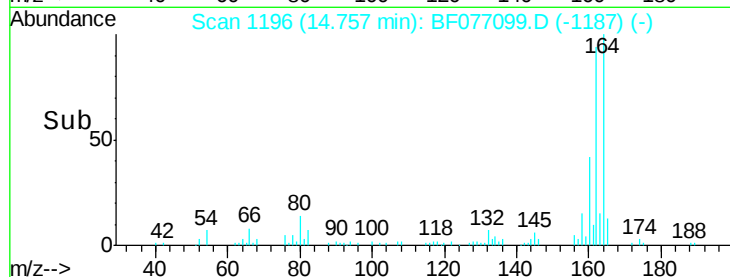
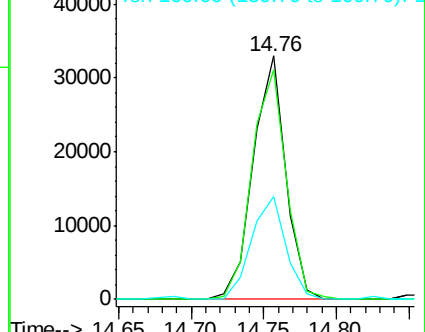
160 42.4 34.8 52.2



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: 5.08 ng

RT: 16.48 min Scan# 1347

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

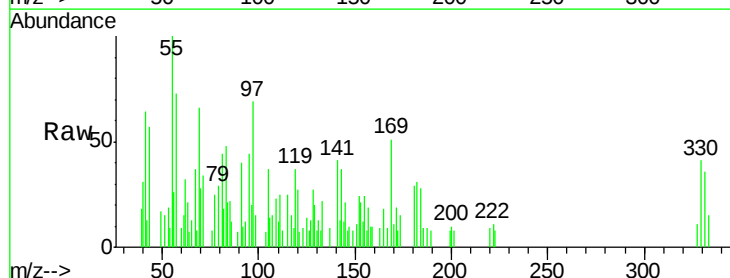
Tgt Ion:330 Resp: 2103

Ion Ratio Lower Upper

330 100

332 93.3 77.8 116.6

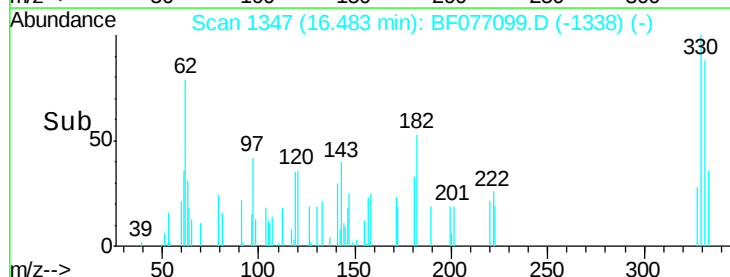
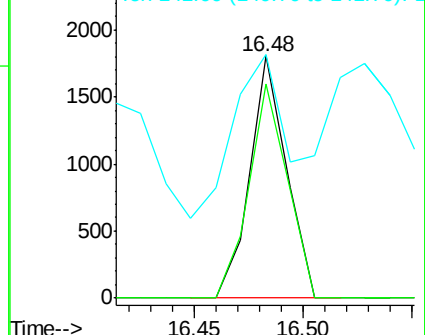
141 91.4 38.5 57.7#

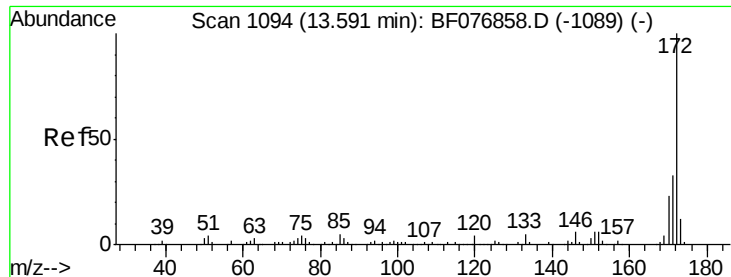


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

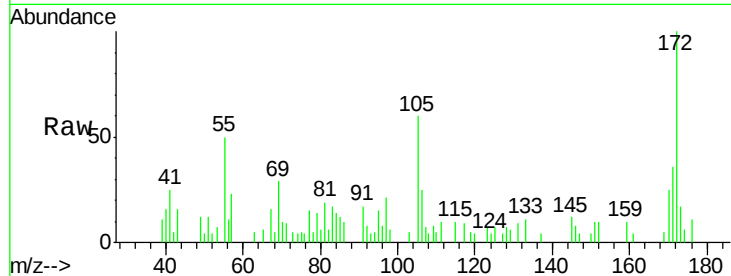




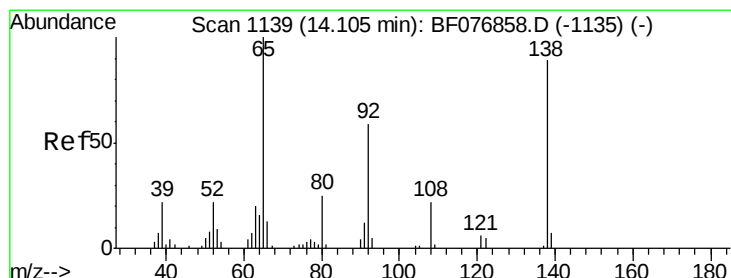
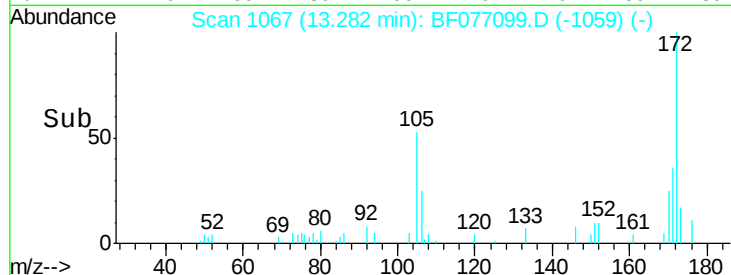
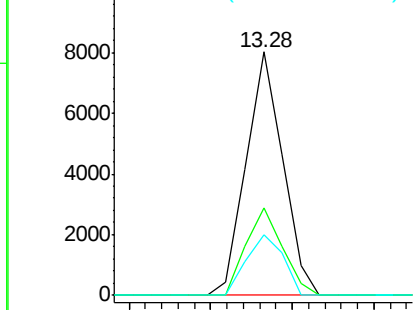
#44  
2-Fluorobiphenyl  
Concen: 3.73 ng  
RT: 13.28 min Scan# 1067  
Delta R.T. -0.01 min  
Lab File: BF077099.D  
Acq: 28 Jan 2015 13:28

Instrument :  
BNA\_F  
ClientSampleId :  
275B1BDL

Tgt Ion: 172 Resp: 12512  
Ion Ratio Lower Upper  
172 100  
171 35.8 26.6 40.0  
170 24.9 18.0 27.0

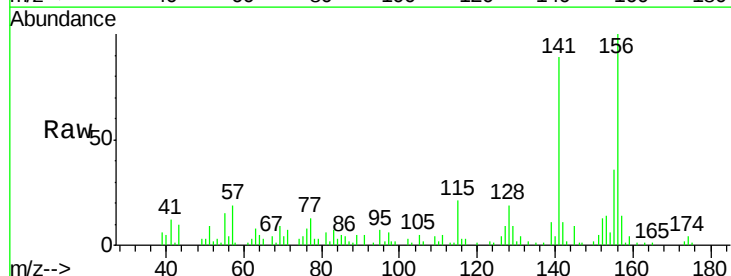


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

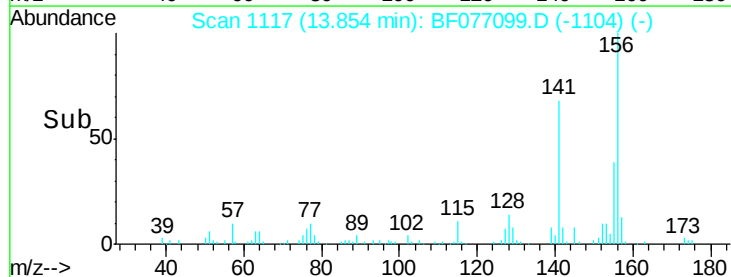
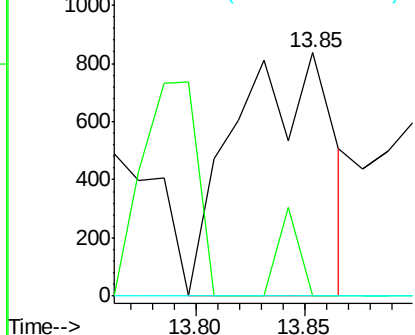


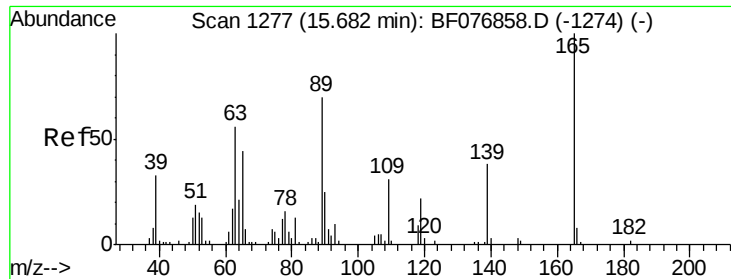
#47  
2-Nitroaniline  
Concen: 2.74 ng  
RT: 13.85 min Scan# 1117  
Delta R.T. 0.05 min  
Lab File: BF077099.D  
Acq: 28 Jan 2015 13:28

Tgt Ion: 65 Resp: 2584  
Ion Ratio Lower Upper  
65 100  
92 0.0 47.3 70.9#  
138 0.0 71.4 107.2#



Abundance Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0  
Ion 138.00 (137.70 to 138.70): E

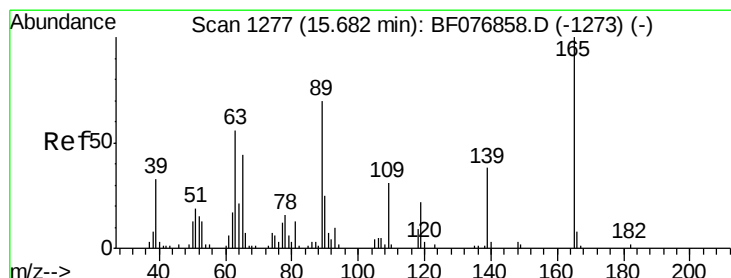
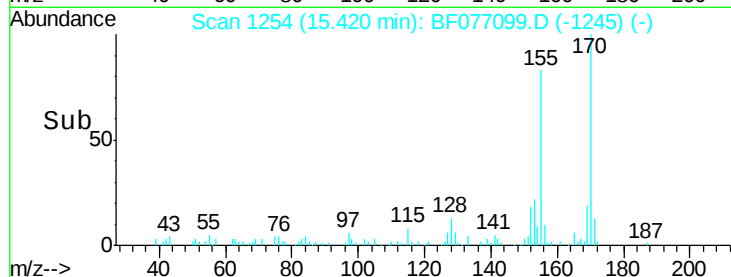
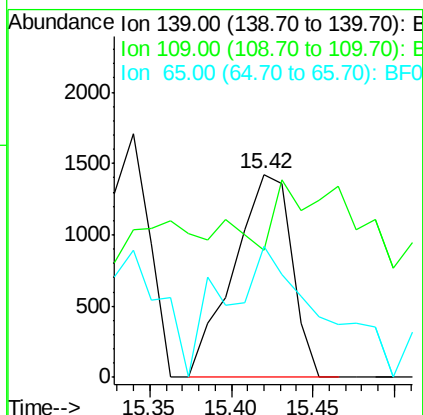
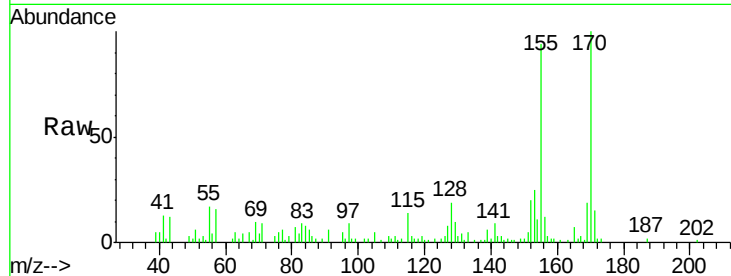




#55  
4-Nitrophenol  
Concen: 6.21 ng  
RT: 15.42 min Scan# 1254  
Delta R.T. -0.00 min  
Lab File: BF077099.D  
Acq: 28 Jan 2015 13:28

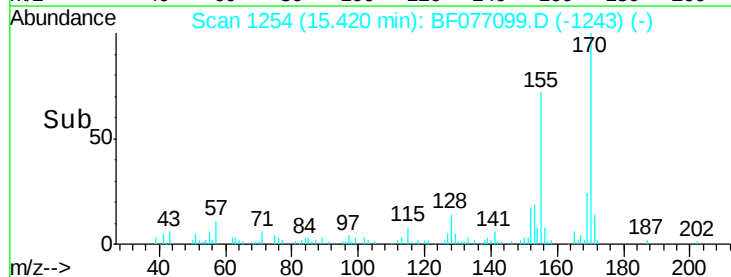
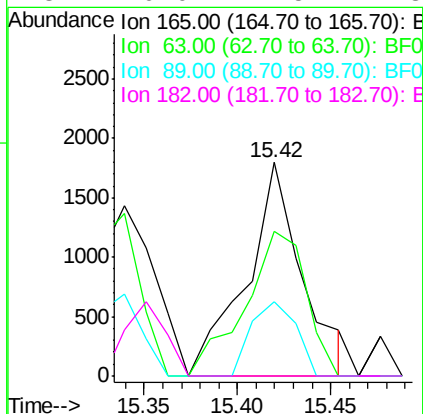
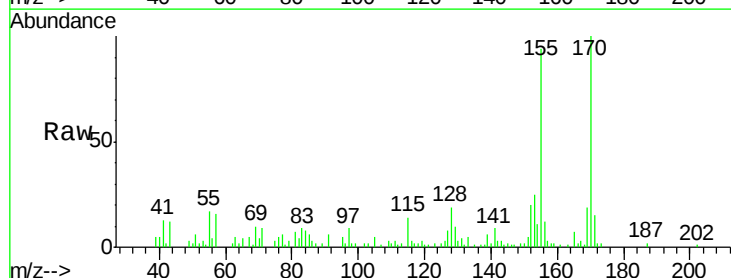
Instrument :  
BNA\_F  
ClientSampleId :  
275B1BDL

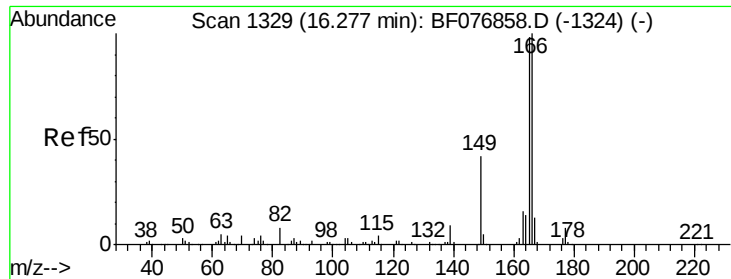
Tgt Ion:139 Resp: 3521  
Ion Ratio Lower Upper  
139 100  
109 62.7 61.0 101.0  
65 64.5 96.6 136.6#



#56  
2,4-Dinitrotoluene  
Concen: 5.41 ng  
RT: 15.42 min Scan# 1254  
Delta R.T. 0.02 min  
Lab File: BF077099.D  
Acq: 28 Jan 2015 13:28

Tgt Ion:165 Resp: 3735  
Ion Ratio Lower Upper  
165 100  
63 67.5 44.8 67.2#  
89 35.0 56.2 84.2#  
182 0.0 1.5 2.3#

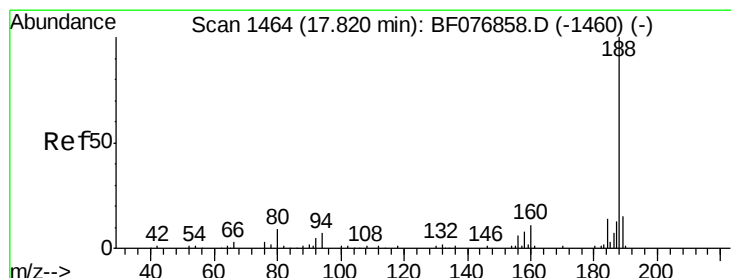
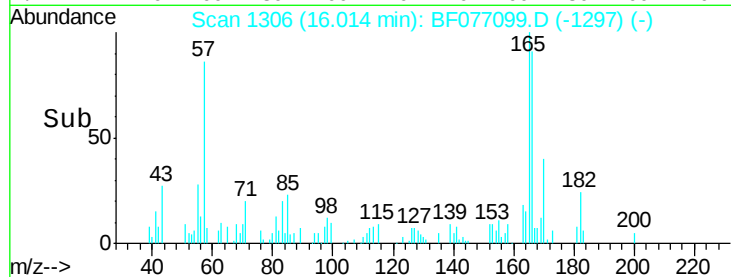
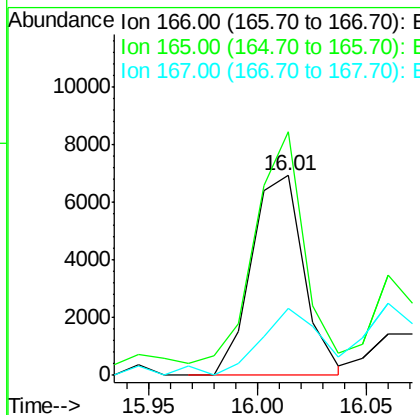
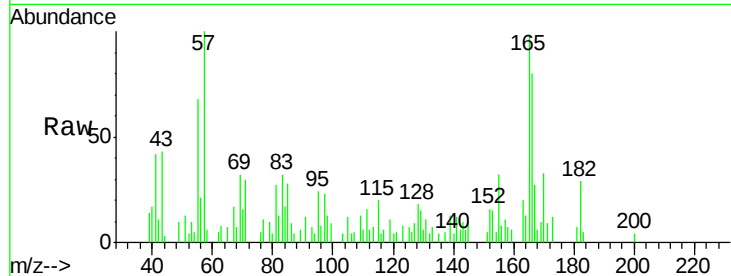




#57  
**Fluorene**  
 Concen: 3.18 ng  
 RT: 16.01 min Scan# 1306  
 Delta R.T. -0.00 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

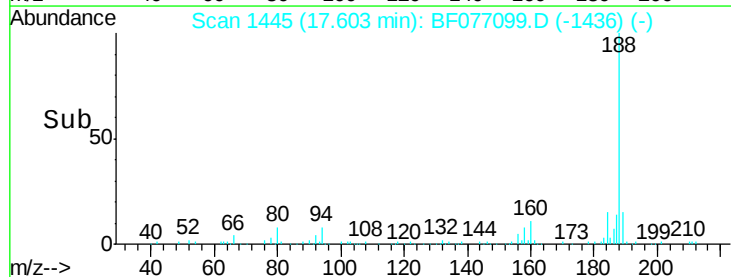
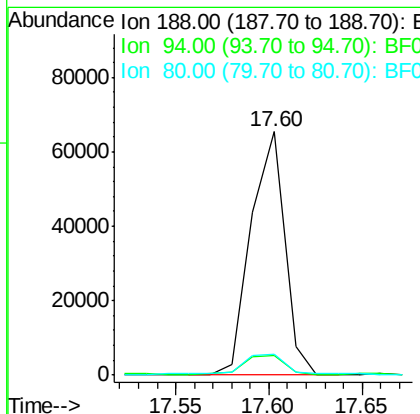
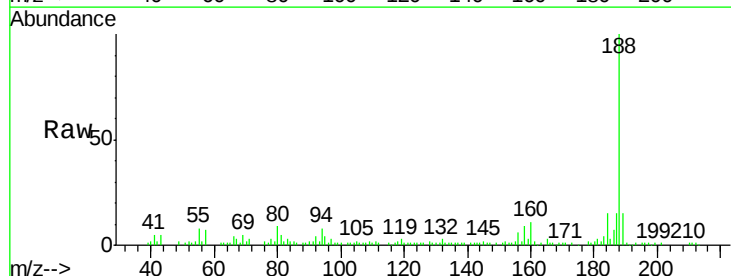
Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1BDL

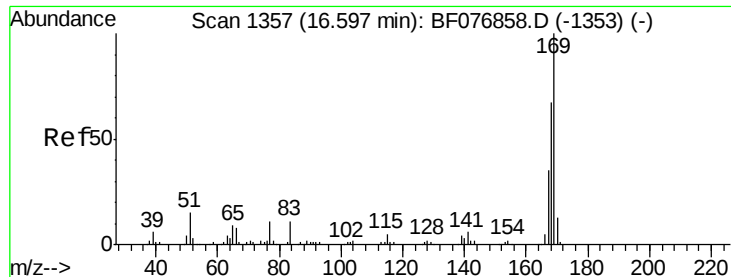
Tgt Ion:166 Resp: 11711  
 Ion Ratio Lower Upper  
 166 100  
 165 122.0 78.5 117.7#  
 167 33.4 10.4 15.6#



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 17.60 min Scan# 1445  
 Delta R.T. -0.00 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

Tgt Ion:188 Resp: 82322  
 Ion Ratio Lower Upper  
 188 100  
 94 8.0 6.0 9.0  
 80 8.5 6.9 10.3

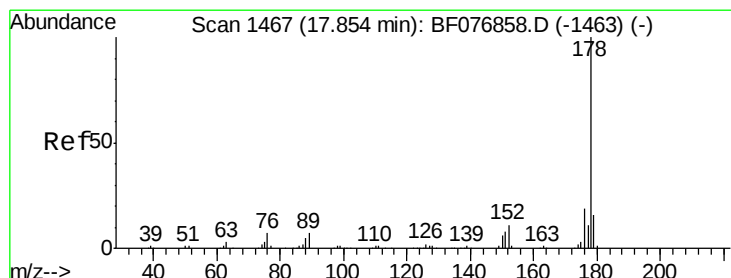
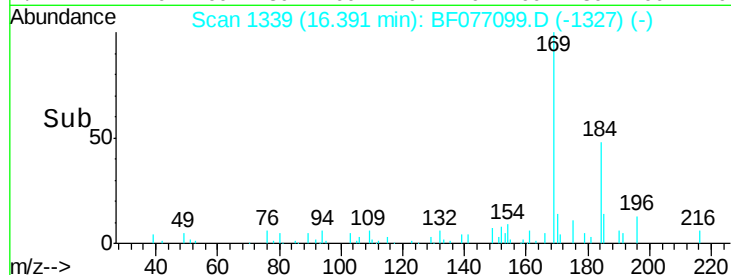
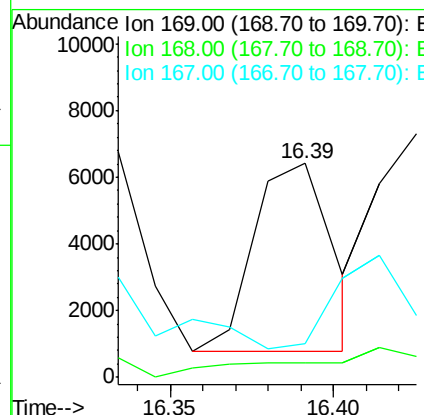
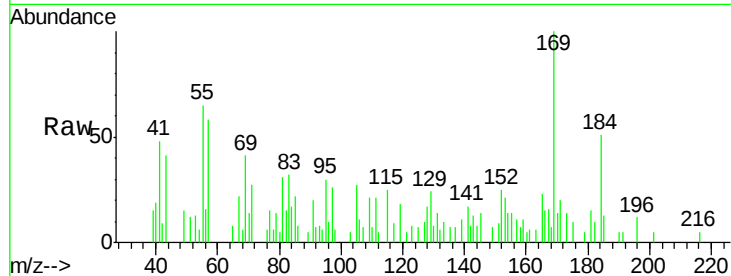




#65  
 n-Nitrosodiphenylamine  
 Concen: 3.18 ng  
 RT: 16.39 min Scan# 1339  
 Delta R.T. 0.03 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

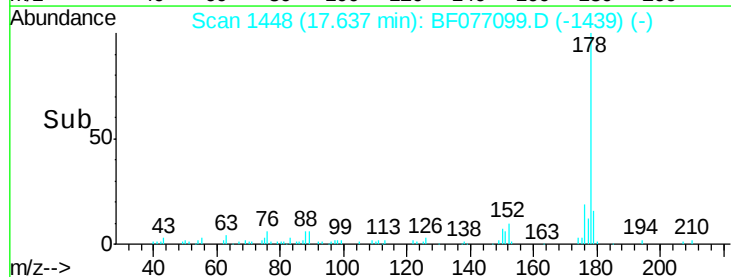
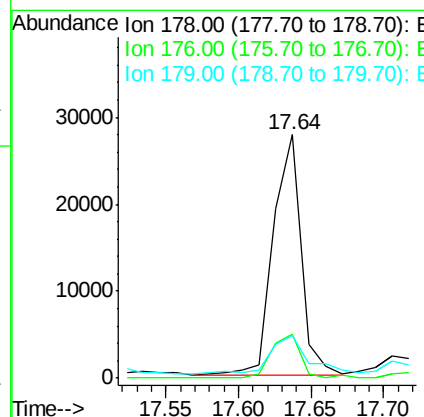
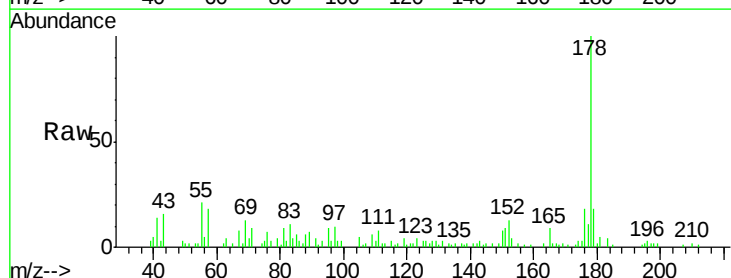
Instrument :  
 BNA\_F  
 ClientSampled :  
 275B1BDL

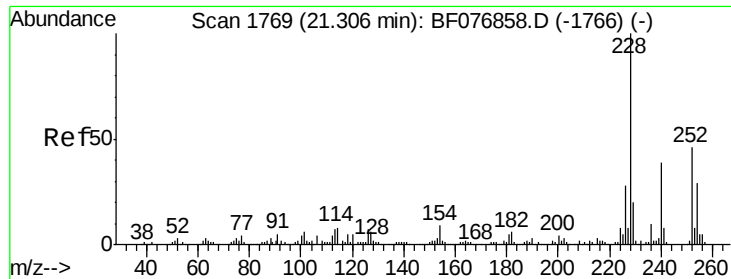
Tgt Ion:169 Resp: 9332  
 Ion Ratio Lower Upper  
 169 100  
 168 6.9 53.8 80.6#  
 167 15.9 27.8 41.6#



#70  
 Phenanthrene  
 Concen: 7.18 ng  
 RT: 17.64 min Scan# 1448  
 Delta R.T. -0.00 min  
 Lab File: BF077099.D  
 Acq: 28 Jan 2015 13:28

Tgt Ion:178 Resp: 36869  
 Ion Ratio Lower Upper  
 178 100  
 176 18.0 15.1 22.7  
 179 17.5 12.7 19.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.10 min Scan# 1751

Delta R.T. -0.01 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

Instrument :

BNA\_F

ClientSampleId :

275B1BDL

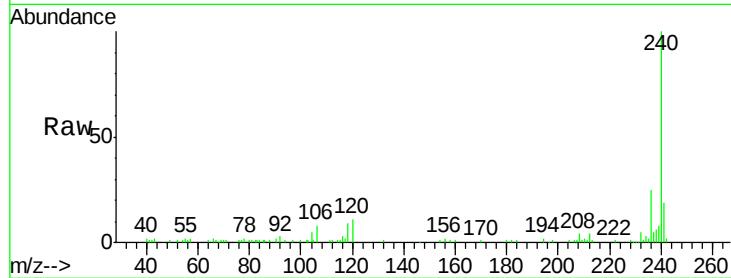
Tgt Ion:240 Resp: 79596

Ion Ratio Lower Upper

240 100

120 11.4 10.4 15.6

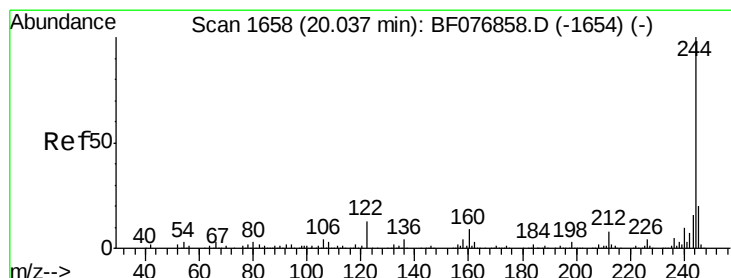
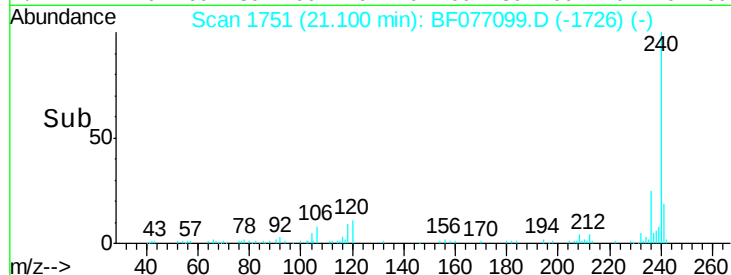
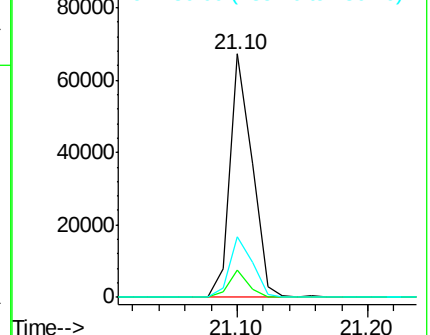
236 24.7 20.2 30.2



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: 3.58 ng

RT: 19.84 min Scan# 1641

Delta R.T. -0.00 min

Lab File: BF077099.D

Acq: 28 Jan 2015 13:28

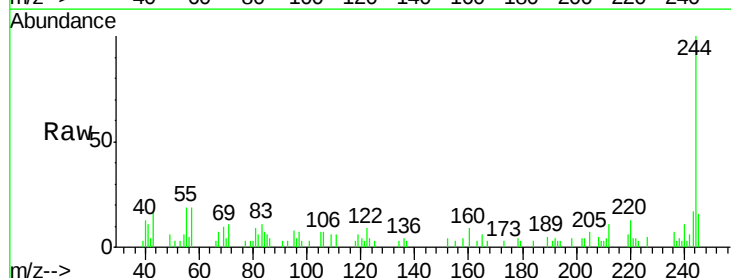
Tgt Ion:244 Resp: 12382

Ion Ratio Lower Upper

244 100

212 10.6 6.3 9.5#

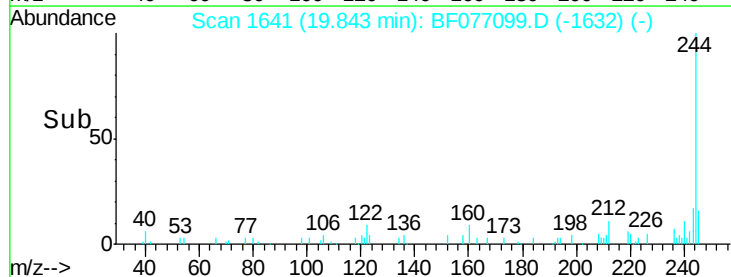
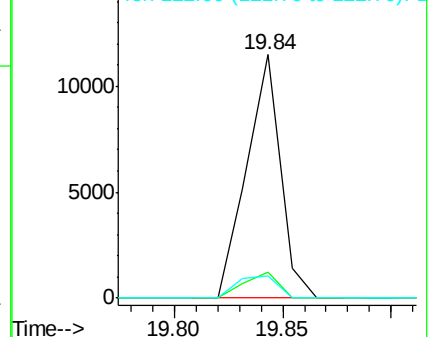
122 9.3 10.1 15.1#

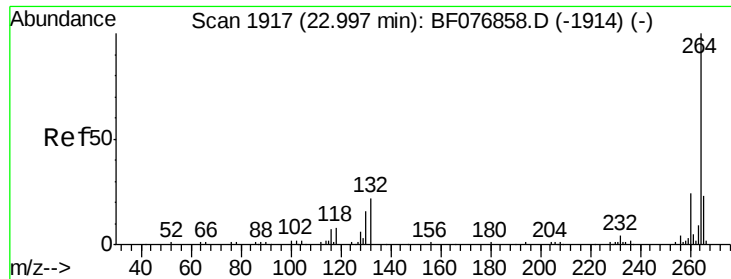


Abundance Ion 244.00 (243.70 to 244.70): E

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: 22.79 min Scan# 1899  
Delta R.T. -0.02 min  
Lab File: BF077099.D  
Acq: 28 Jan 2015 13:28

Instrument :  
BNA\_F  
ClientSampleId :  
275B1BDL

Tgt Ion: 264 Resp: 74496  
Ion Ratio Lower Upper  
264 100  
260 22.7 19.0 28.4  
265 20.7 18.1 27.1

