

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
 Data File : BF095034.D  
 Acq On : 9 May 2017 21:44  
 Operator : SJ/MA  
 Sample : I3022-02  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 10 01:16:21 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

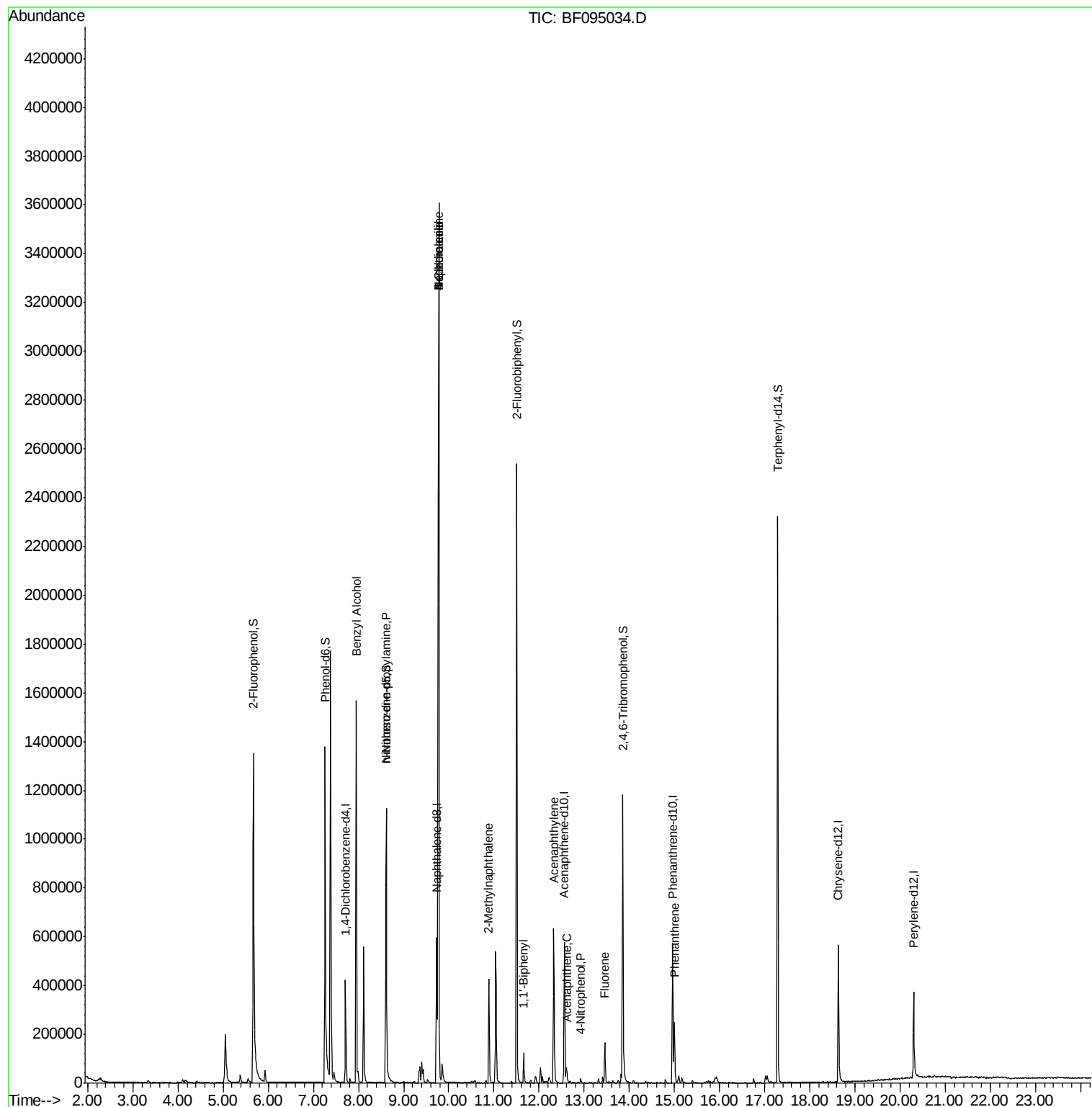
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.71  | 152  | 89706    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 9.73  | 136  | 377310   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 12.56 | 164  | 171828   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 14.96 | 188  | 301636   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 18.63 | 240  | 278792   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 20.30 | 264  | 193951   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.67  | 112  | 735540   | 136.70 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.26  | 99   | 811529   | 125.70 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 8.61  | 82   | 552342   | 92.31  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.86 | 330  | 214823   | 152.66 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 11.51 | 172  | 1099625  | 92.11  | ng    | -0.02    |
| 78) Terphenyl-d14              | 17.29 | 244  | 958515   | 75.73  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 7.95  | 79   | 8367     | 2.02   | ng    | # 43     |
| 19) n-Nitroso-di-n-propylamine | 8.61  | 70   | 69763    | 15.98  | ng    | # 75     |
| 31) Naphthalene                | 9.78  | 128  | 2491661  | 131.39 | ng    | 99       |
| 32) Benzoic acid               | 9.78  | 122  | 5506     | 6.45   | ng    | # 1      |
| 33) 4-Chloroaniline            | 9.78  | 127  | 336257   | 47.58  | ng    | # 34     |
| 37) 2-Methylnaphthalene        | 10.89 | 142  | 164940   | 13.25  | ng    | 97       |
| 45) 1,1'-Biphenyl              | 11.66 | 154  | 61542    | 4.25   | ng    | 95       |
| 48) Acenaphthylene             | 12.32 | 152  | 412530   | 22.55  | ng    | 98       |
| 51) Acenaphthene               | 12.61 | 154  | 22681    | 2.08   | ng    | 90       |
| 55) 4-Nitrophenol              | 12.92 | 139  | 4361     | 2.35   | ng    | # 25     |
| 57) Fluorene                   | 13.46 | 166  | 72977    | 5.55   | ng    | 99       |
| 70) Phenanthrene               | 15.00 | 178  | 157709   | 9.10   | ng    | 95       |

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

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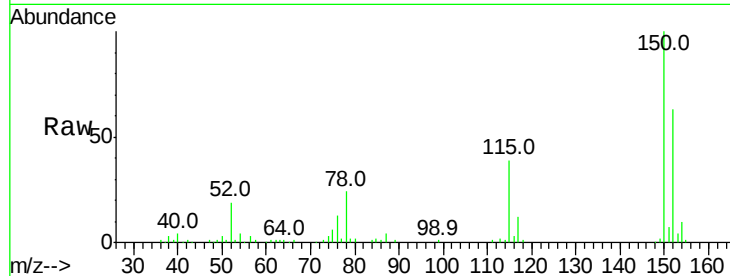


#1

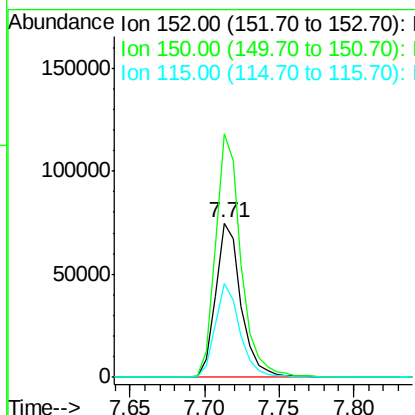
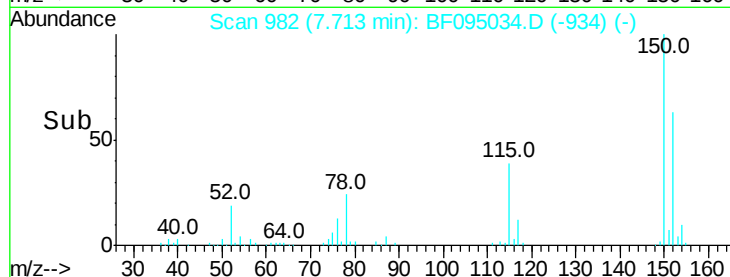
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.71 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 89706  
Ion Ratio Lower Upper  
152 100  
150 157.6 126.2 189.2  
115 61.1 52.2 78.2



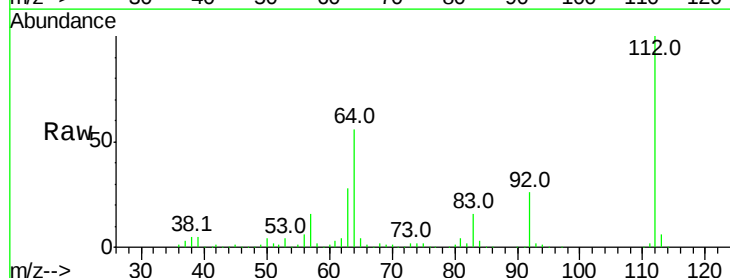
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



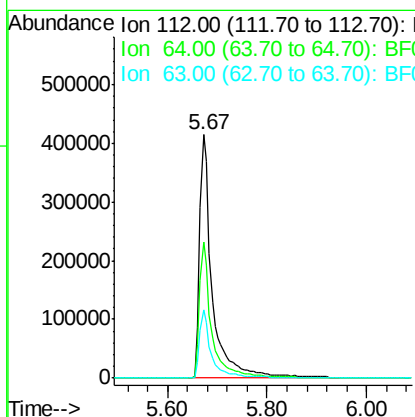
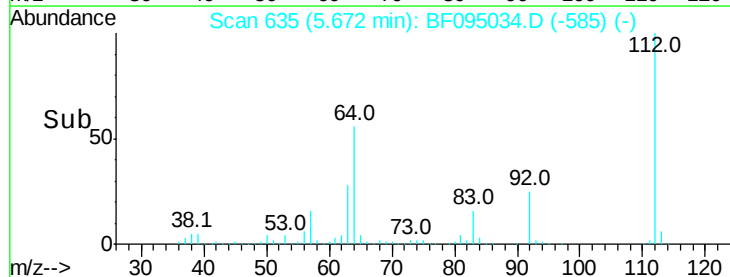
#5

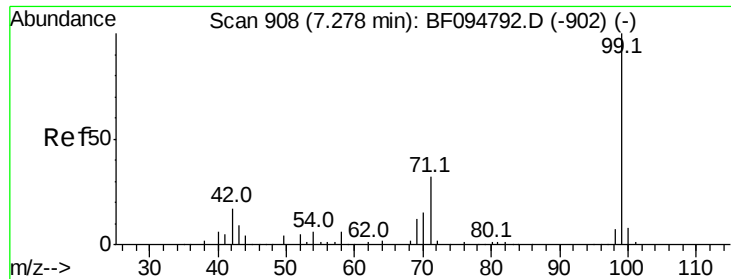
2-Fluorophenol  
Concen: 136.70 ng  
RT: 5.67 min Scan# 635  
Delta R.T. -0.01 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Tgt Ion:112 Resp: 735540  
Ion Ratio Lower Upper  
112 100  
64 55.9 46.0 69.0  
63 28.1 23.4 35.0



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: 125.70 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Instrument :

BNA\_F

ClientSampleId :

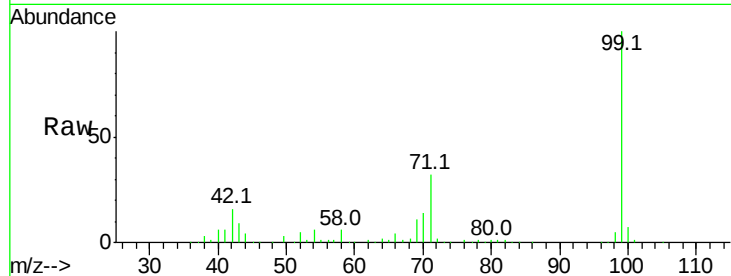
Tot Ion: 99 Resp: 811529

Ion Ratio Lower Upper

99 100

42 16.0 13.5 20.3

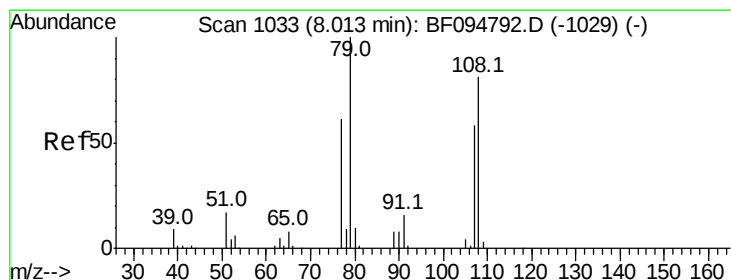
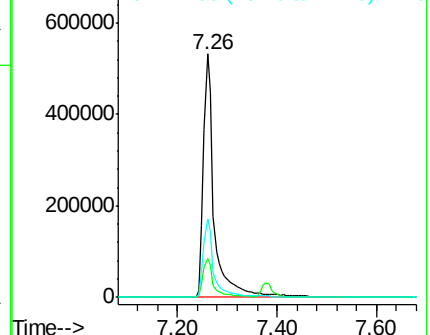
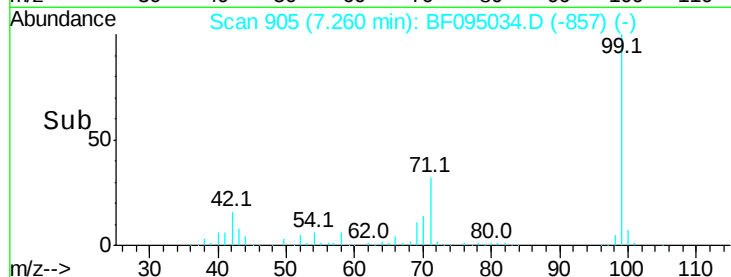
71 32.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.02 ng

RT: 7.95 min Scan# 1023

Delta R.T. -0.06 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

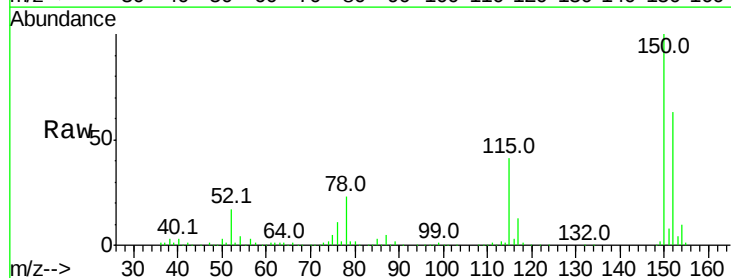
Tgt Ion: 79 Resp: 8367

Ion Ratio Lower Upper

79 100

108 28.9 63.4 95.0#

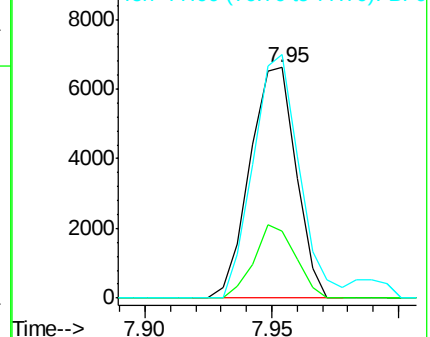
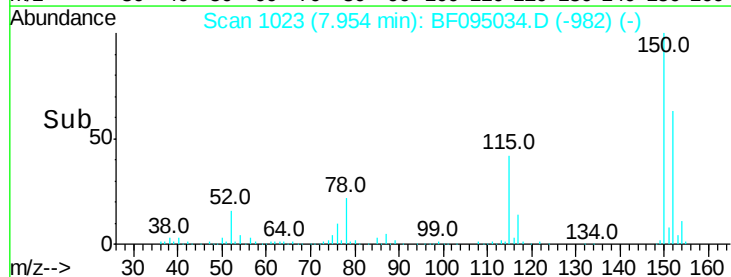
77 105.5 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

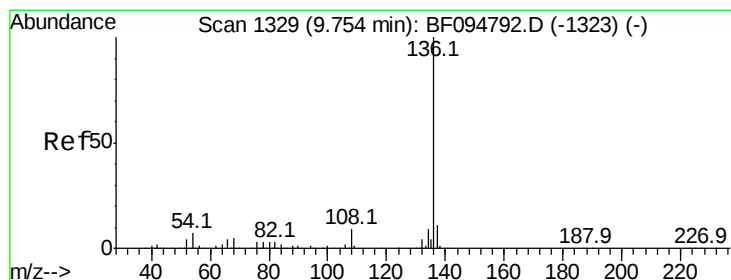
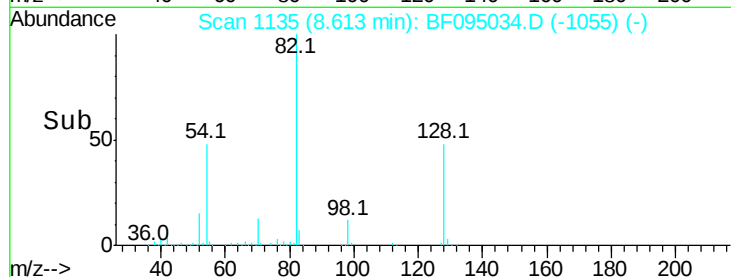
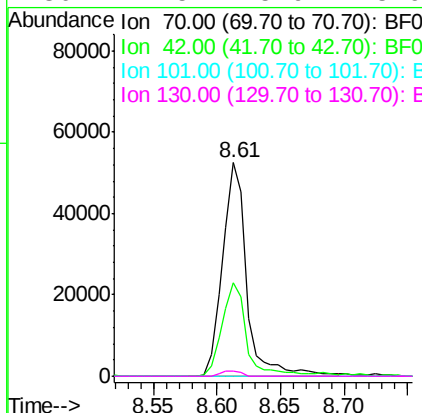
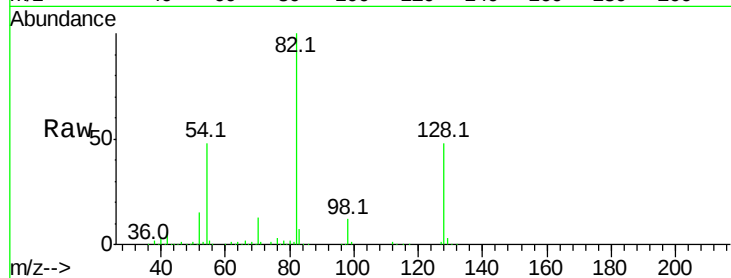




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.98 ng  
RT: 8.61 min Scan# 1135  
Delta R.T. 0.17 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

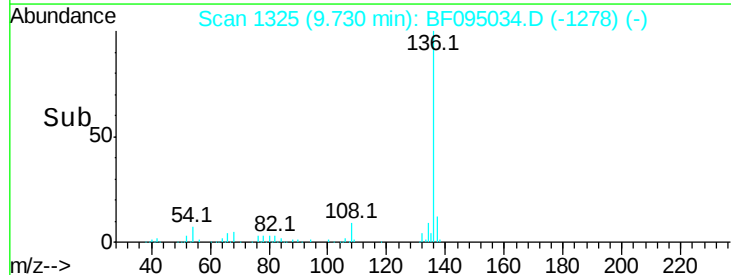
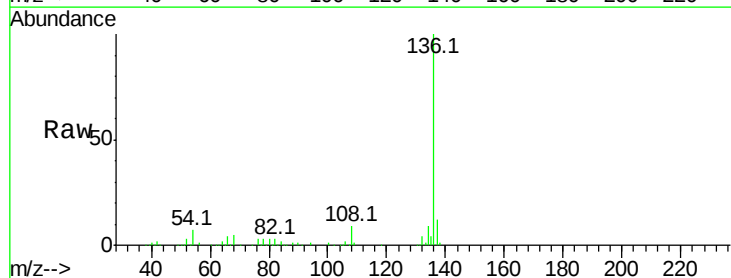
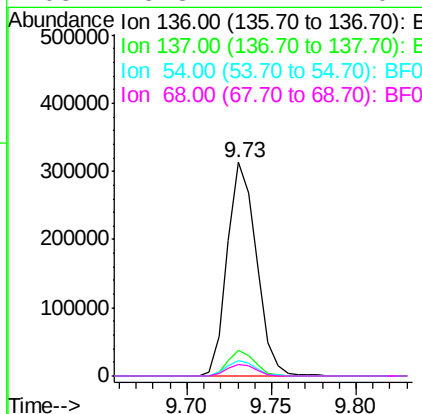
Instrument :  
BNA\_F  
ClientSampleId :

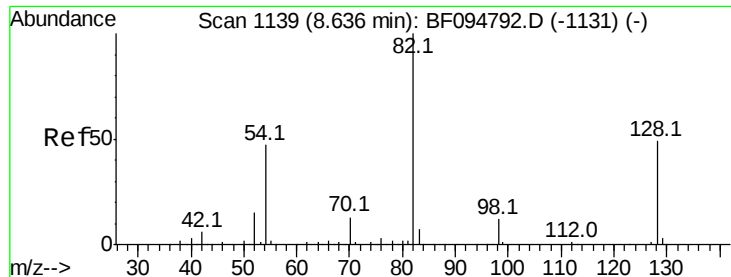
Tot Ion: 70 Resp: 69763  
Ion Ratio Lower Upper  
70 100  
42 43.6 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.5 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.73 min Scan# 1325  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Tgt Ion: 136 Resp: 377310  
Ion Ratio Lower Upper  
136 100  
137 11.7 8.5 12.7  
54 7.3 4.9 7.3  
68 5.3 4.1 6.1

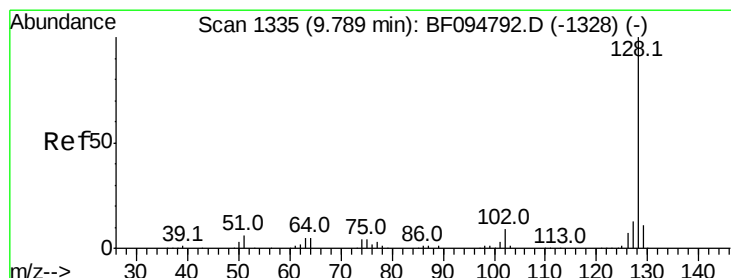
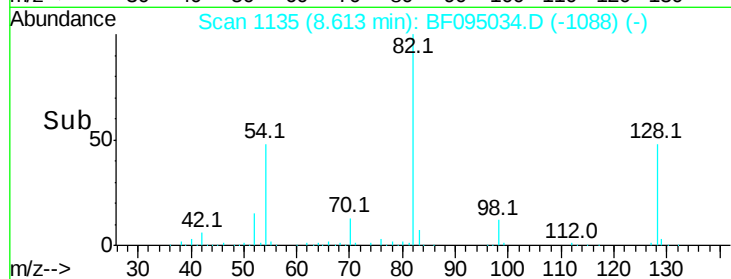
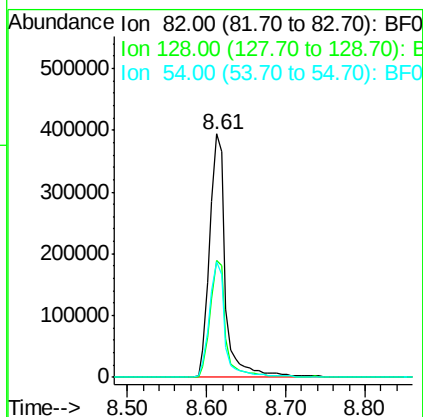
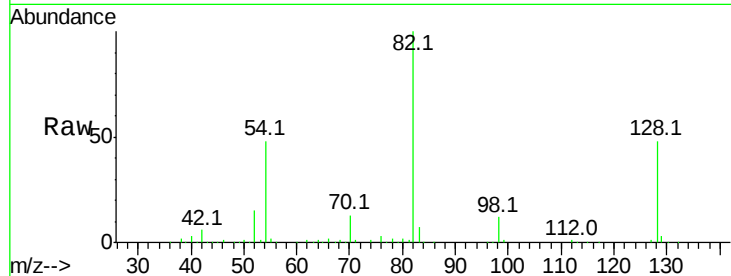




#23  
 Nitrobenzene-d5  
 Concen: 92.31 ng  
 RT: 8.61 min Scan# 1135  
 Delta R.T. -0.02 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

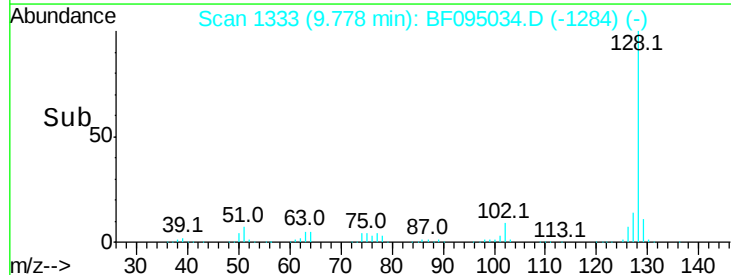
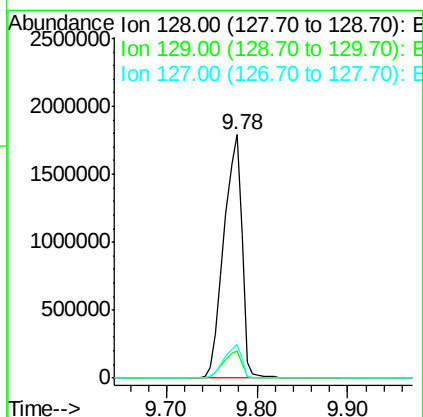
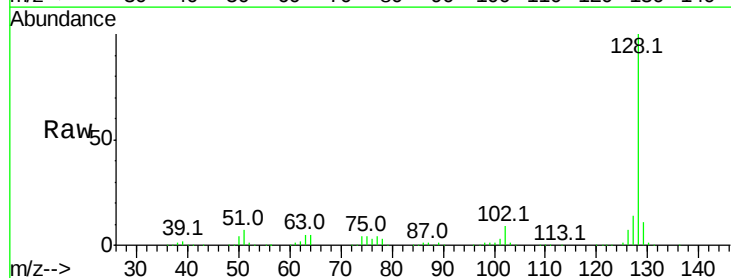
Instrument :  
 BNA\_F  
 ClientSampled :

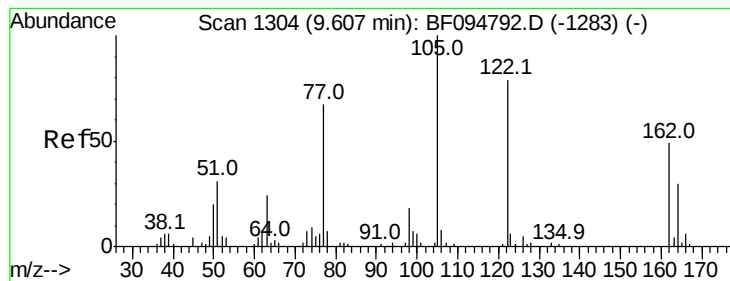
Tot Ion: 82 Resp: 552342  
 Ion Ratio Lower Upper  
 82 100  
 128 47.8 34.0 51.0  
 54 47.7 42.2 63.2



#31  
 Naphthalene  
 Concen: 131.39 ng  
 RT: 9.78 min Scan# 1333  
 Delta R.T. -0.01 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

Tgt Ion:128 Resp: 2491661  
 Ion Ratio Lower Upper  
 128 100  
 129 11.2 9.0 13.6  
 127 13.9 10.8 16.2





#32

Benzoic acid

Concen: 6.45 ng

RT: 9.78 min Scan# 1333

Delta R.T. 0.17 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Instrument :

BNA\_F

ClientSampleId :

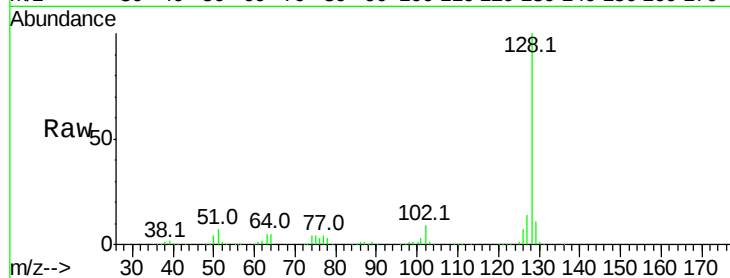
Tot Ion:122 Resp: 5506

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

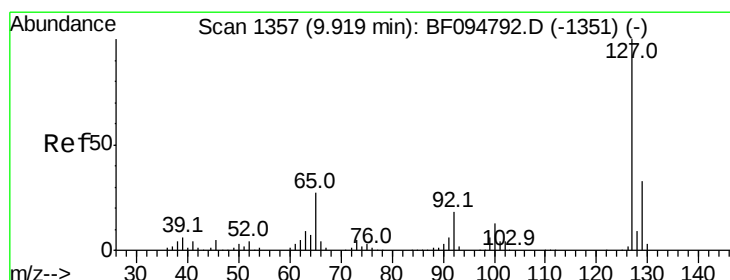
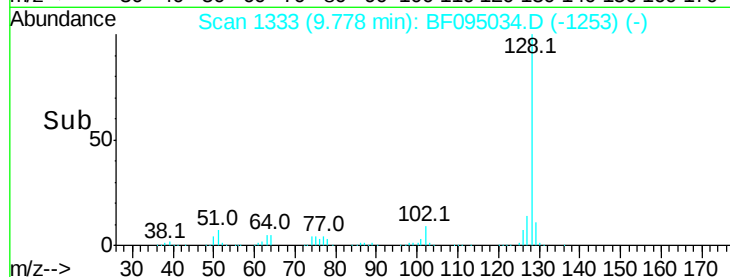
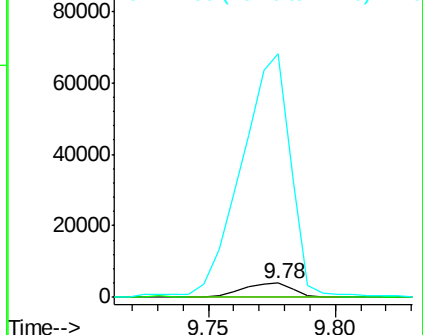
77 1720.4 73.7 113.7#



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): BF0



#33

4-Chloroaniline

Concen: 47.58 ng

RT: 9.78 min Scan# 1333

Delta R.T. -0.14 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Tgt Ion:127 Resp: 336257

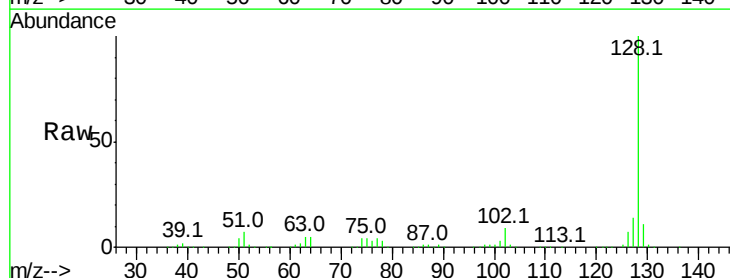
Ion Ratio Lower Upper

127 100

129 80.6 26.2 39.2#

65 0.0 27.8 41.8#

92 0.0 16.8 25.2#

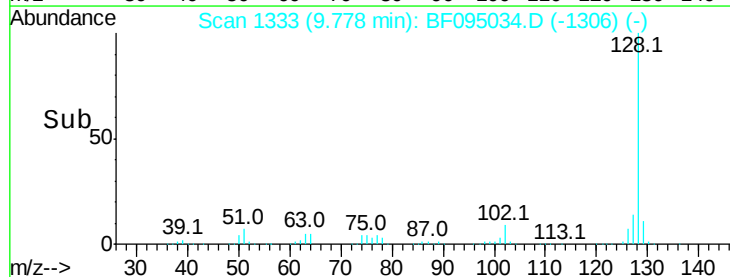
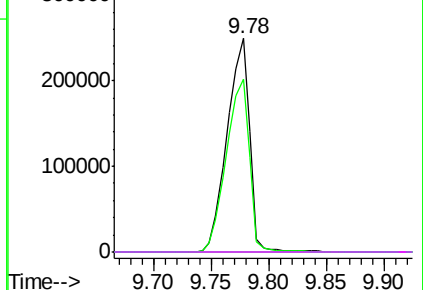


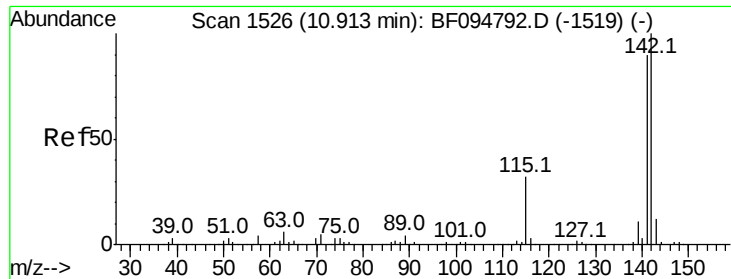
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

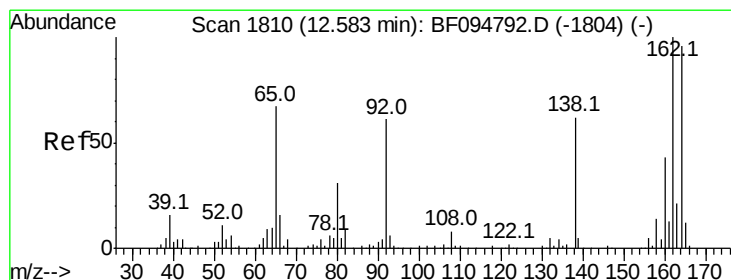
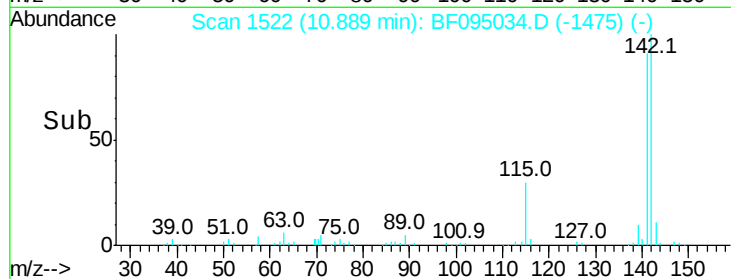
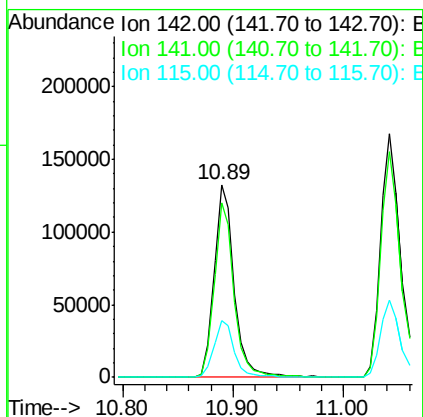
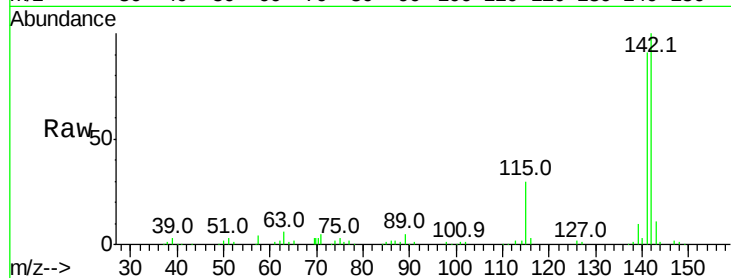




#37  
2-Methylnaphthalene  
Concen: 13.25 ng  
RT: 10.89 min Scan# 1522  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

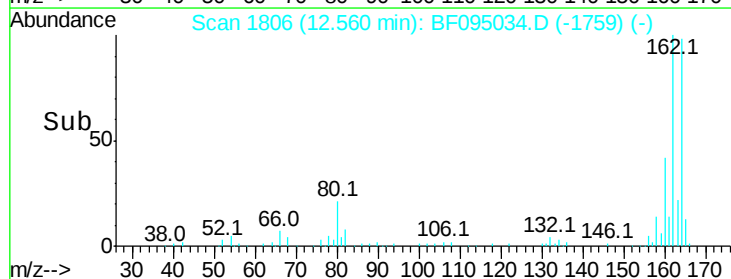
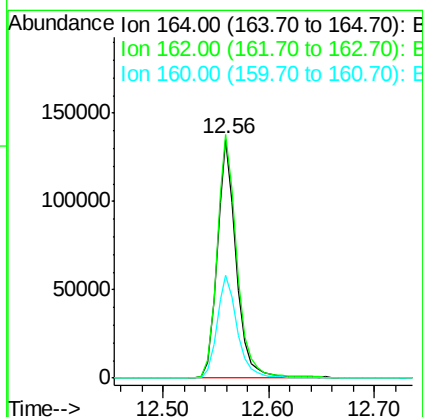
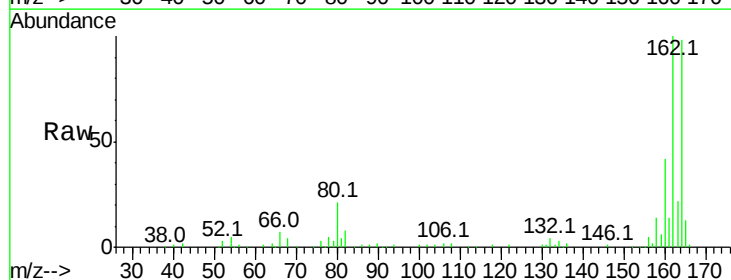
Instrument :  
BNA\_F  
ClientSampleId :

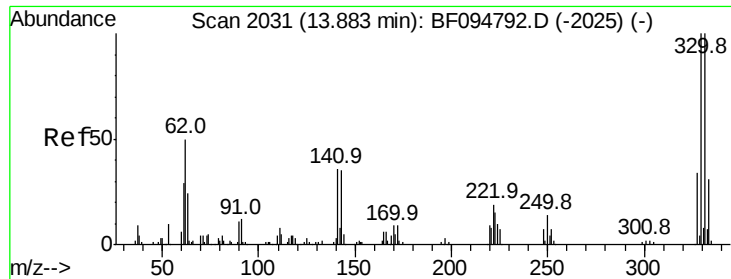
Tot Ion:142 Resp: 164940  
Ion Ratio Lower Upper  
142 100  
141 90.6 71.3 106.9  
115 29.7 27.1 40.7



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.56 min Scan# 1806  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Tgt Ion:164 Resp: 171828  
Ion Ratio Lower Upper  
164 100  
162 101.9 82.6 123.8  
160 42.9 36.2 54.2

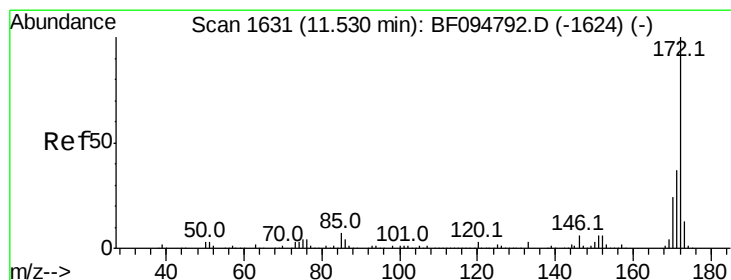
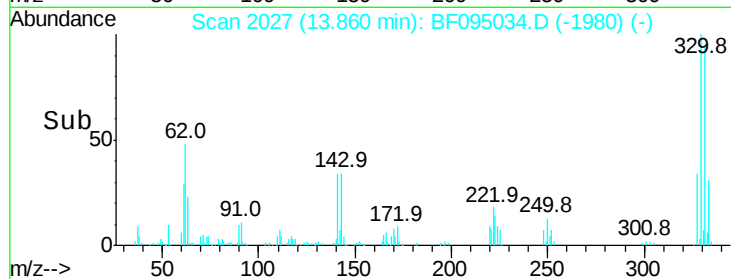
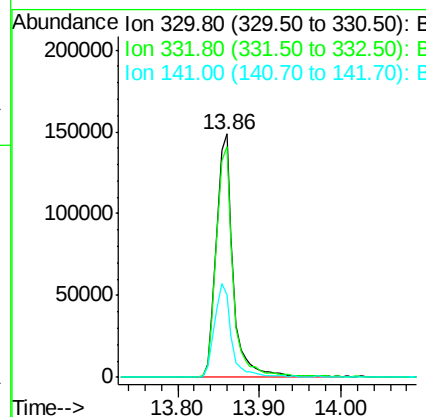
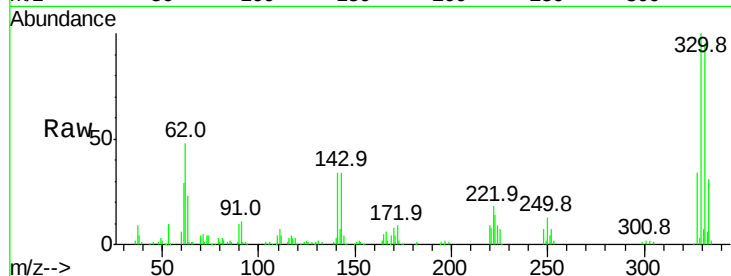




#41  
 2,4,6-Tribromophenol  
 Concen: 152.66 ng  
 RT: 13.86 min Scan# 2027  
 Delta R.T. -0.02 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

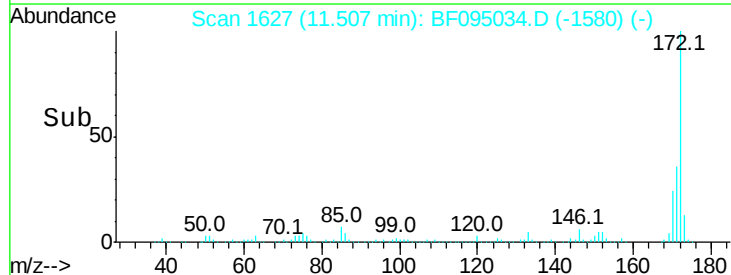
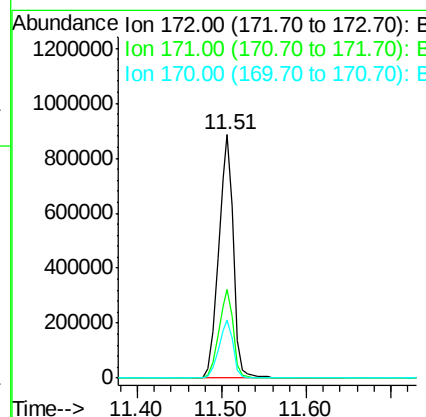
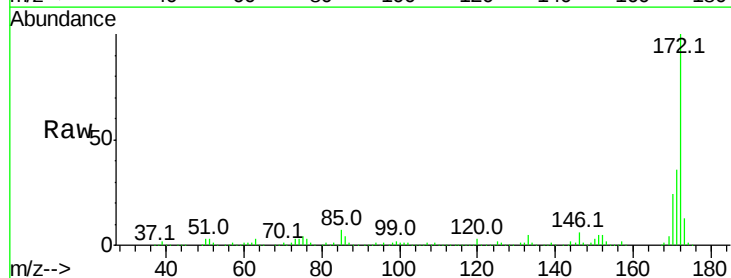
Instrument :  
 BNA\_F  
 ClientSampled :

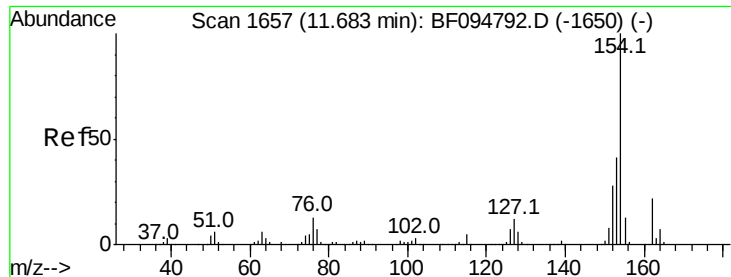
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 76.6  | 115.0 |
| 141     | 39.1  | 31.4  | 47.2  |



#44  
 2-Fluorobiphenyl  
 Concen: 92.11 ng  
 RT: 11.51 min Scan# 1627  
 Delta R.T. -0.02 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.6  | 44.4  |
| 170     | 23.7  | 19.8  | 29.8  |





#45

1,1'-Biphenyl

Concen: 4.25 ng

RT: 11.66 min Scan# 1653

Delta R.T. -0.02 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Instrument :

BNA\_F

ClientSampleId :

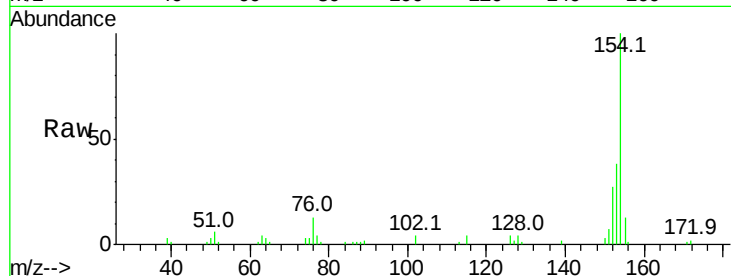
Tot Ion:154 Resp: 61542

Ion Ratio Lower Upper

154 100

153 38.2 21.2 61.2

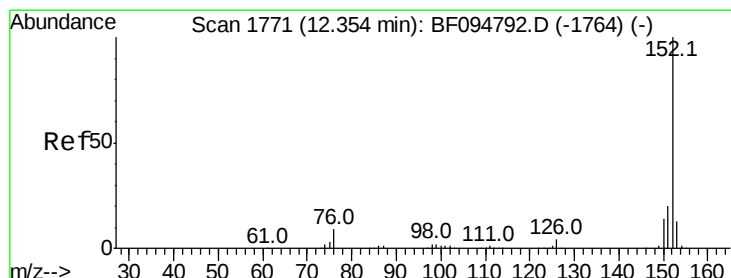
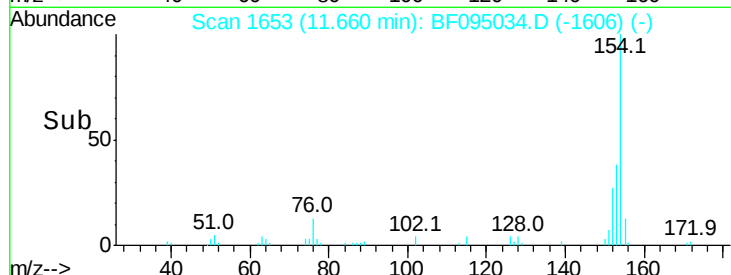
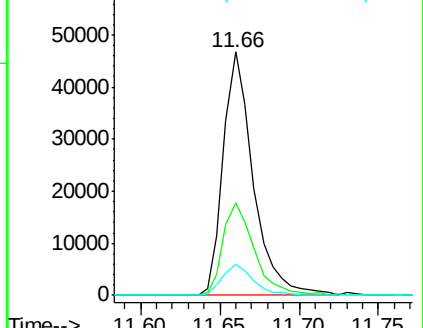
76 12.8 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 22.55 ng

RT: 12.32 min Scan# 1766

Delta R.T. -0.03 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

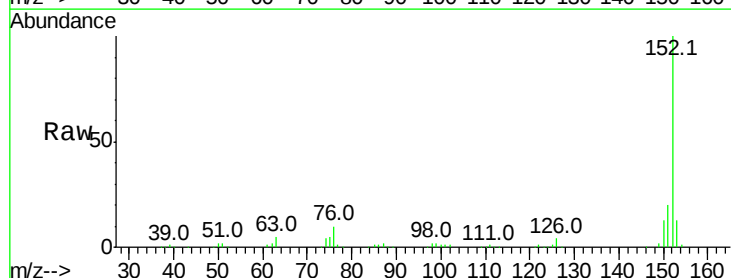
Tgt Ion:152 Resp: 412530

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

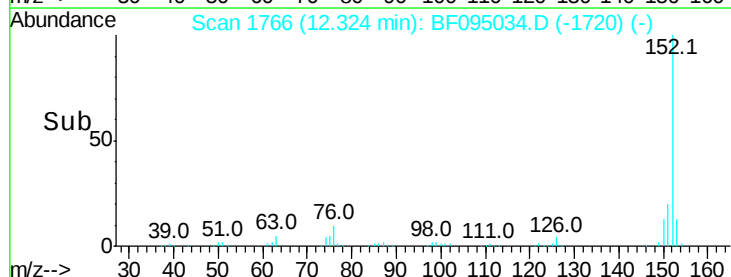
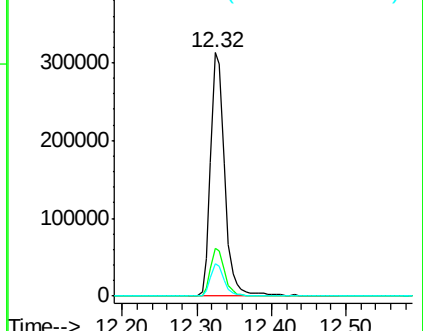
153 13.1 10.8 16.2

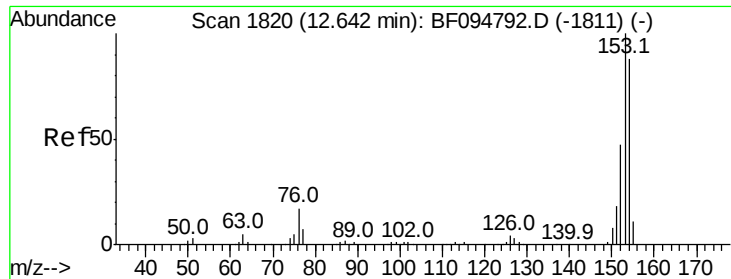


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 2.08 ng

RT: 12.61 min Scan# 1815

Delta R.T. -0.03 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Instrument :

BNA\_F

ClientSampleId :

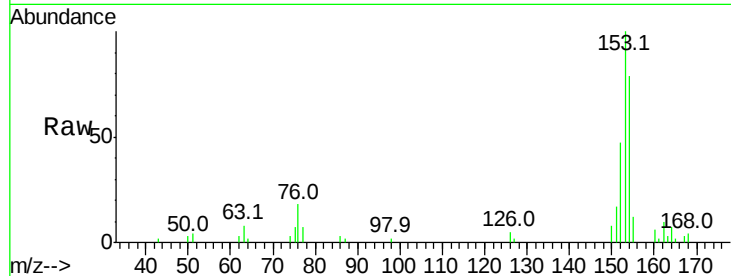
Tot Ion:154 Resp: 22681

Ion Ratio Lower Upper

154 100

153 126.1 90.5 135.7

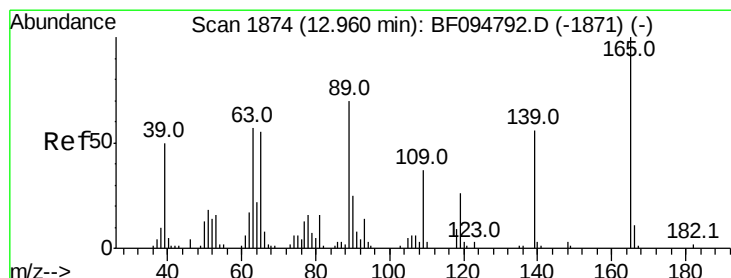
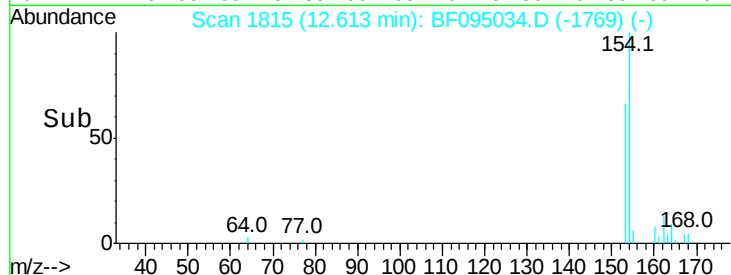
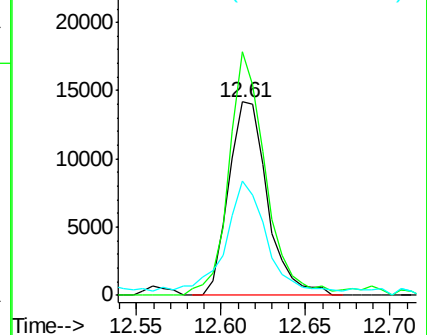
152 59.2 43.6 65.4



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: 2.35 ng

RT: 12.92 min Scan# 1867

Delta R.T. -0.04 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

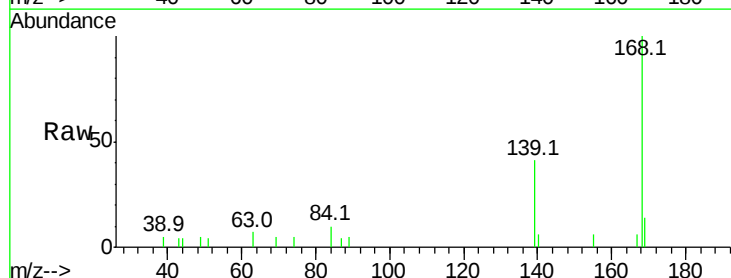
Tgt Ion:139 Resp: 4361

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

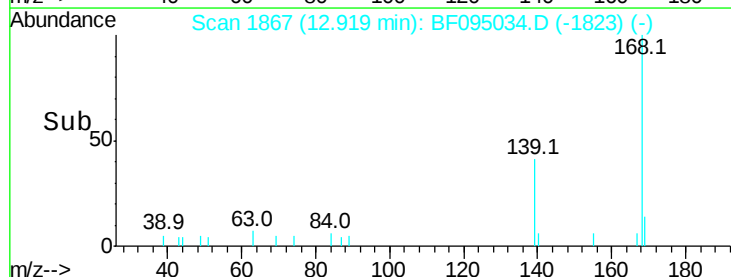
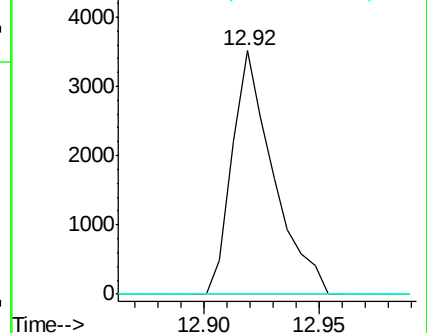
65 0.0 31.4 71.4#

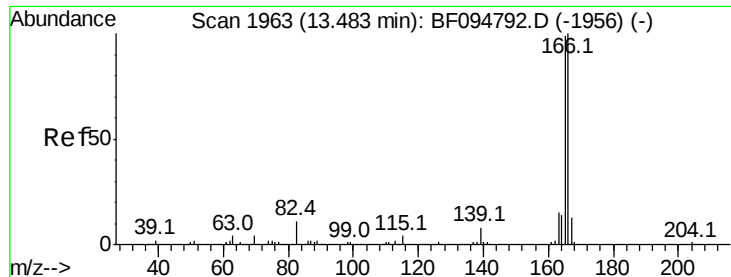


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 5.55 ng

RT: 13.46 min Scan# 1959

Delta R.T. -0.02 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

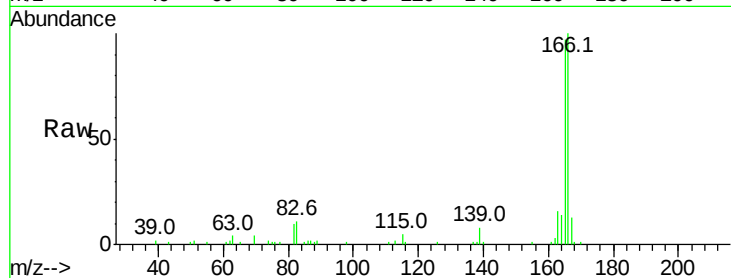
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:166 Resp: 72977

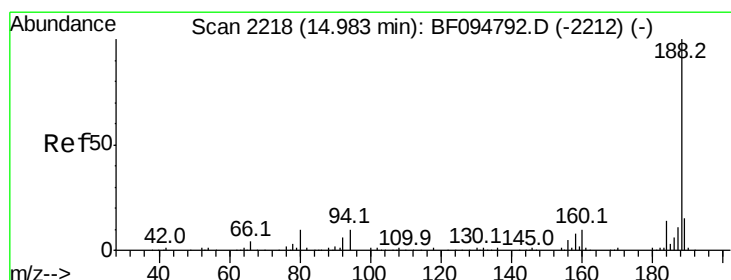
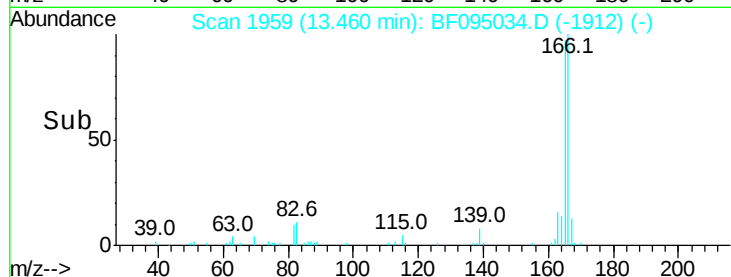
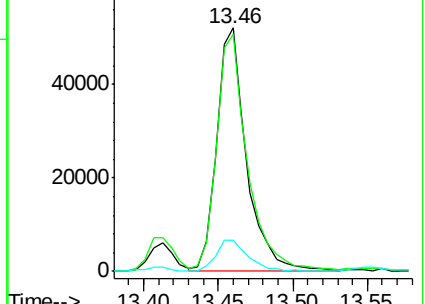
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 97.3  | 78.8  | 118.2 |
| 167 | 12.7  | 10.6  | 16.0  |



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: 14.96 min Scan# 2214

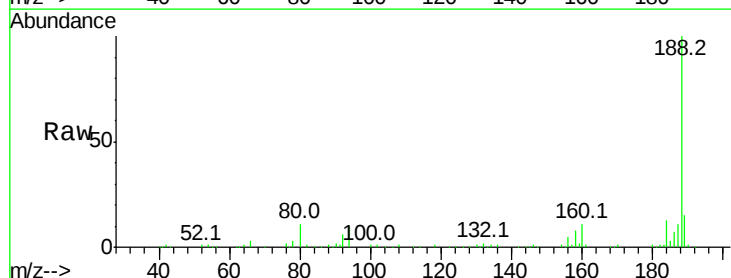
Delta R.T. -0.02 min

Lab File: BF095034.D

Acq: 9 May 2017 21:44

Tgt Ion:188 Resp: 301636

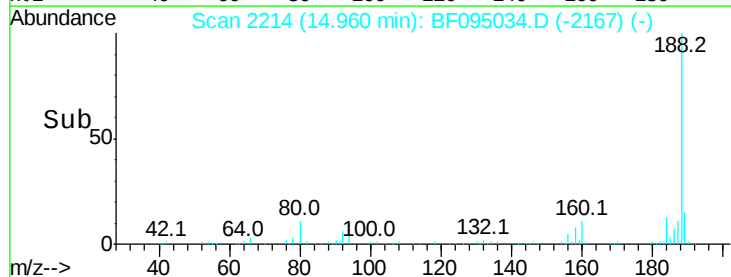
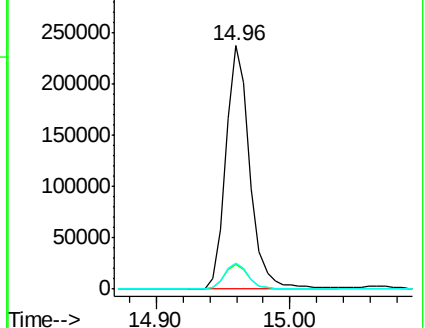
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.0  | 9.4   | 14.2  |
| 80  | 10.5  | 10.2  | 15.2  |

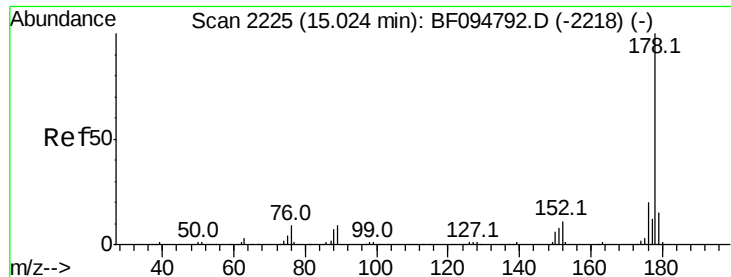


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

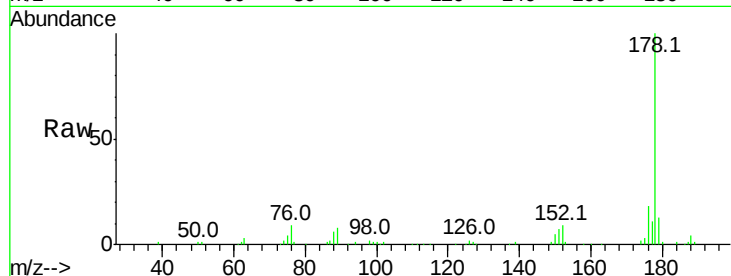




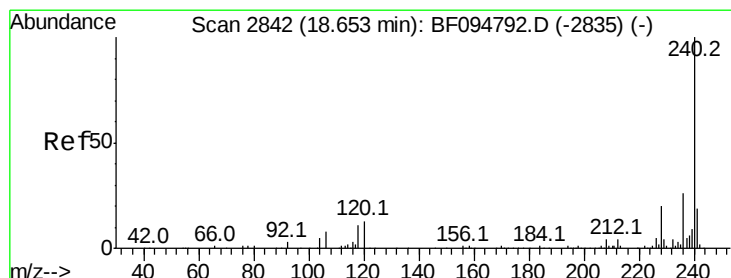
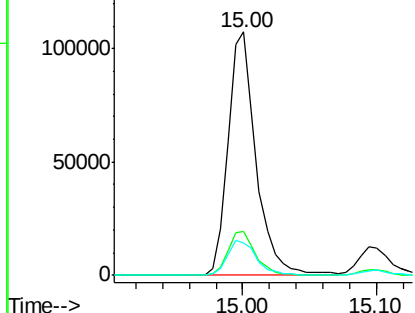
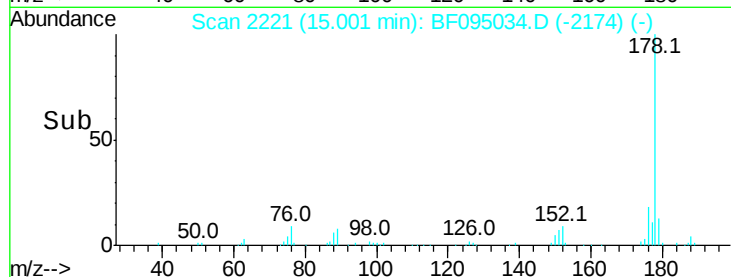
#70  
Phenanthrene  
Concen: 9.10 ng  
RT: 15.00 min Scan# 2221  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:178 Resp: 157709  
Ion Ratio Lower Upper  
178 100  
176 18.1 16.2 24.4  
179 13.2 12.6 19.0

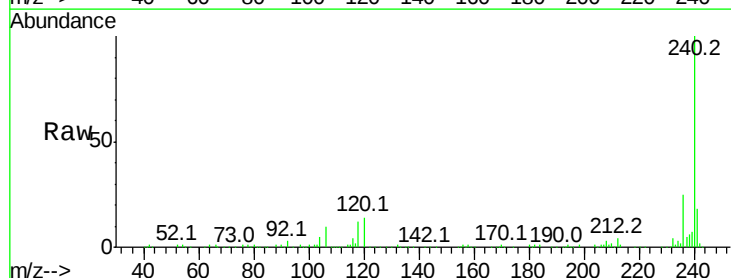


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

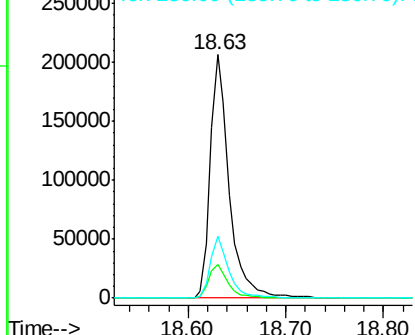
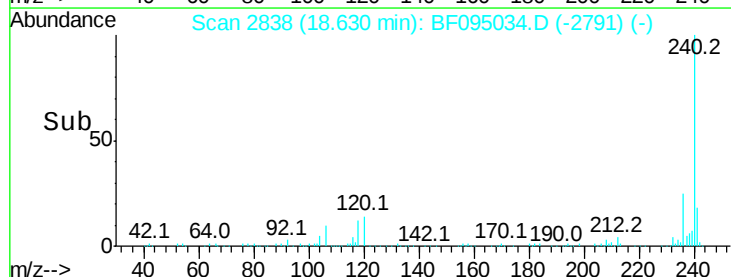


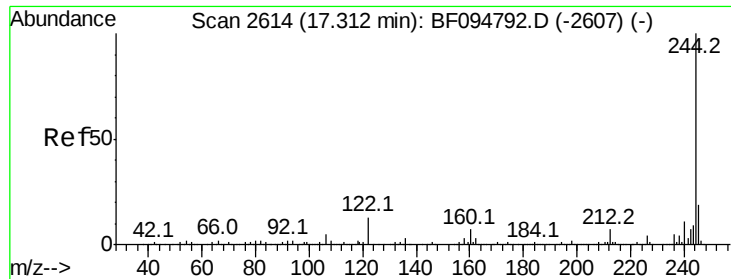
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.63 min Scan# 2838  
Delta R.T. -0.02 min  
Lab File: BF095034.D  
Acq: 9 May 2017 21:44

Tgt Ion:240 Resp: 278792  
Ion Ratio Lower Upper  
240 100  
120 14.0 5.8 8.8#  
236 25.2 20.5 30.7



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

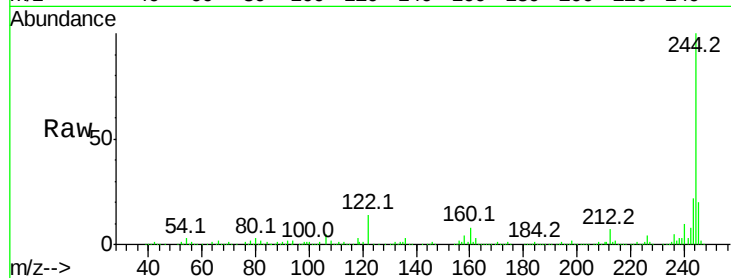




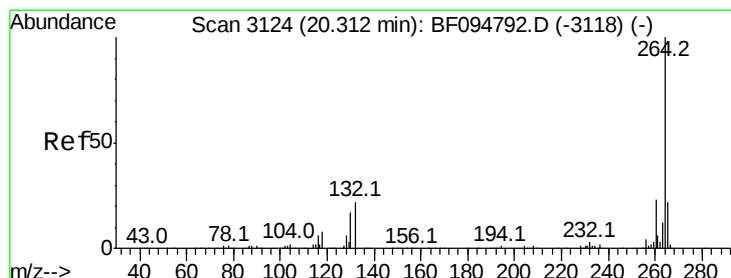
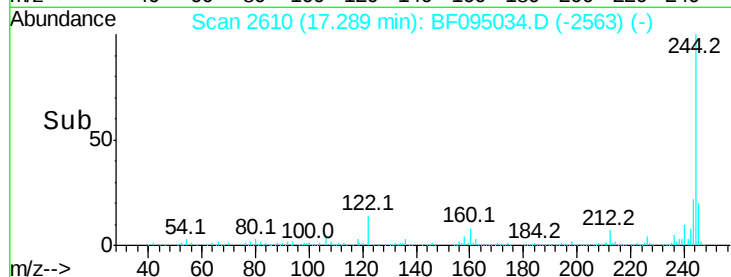
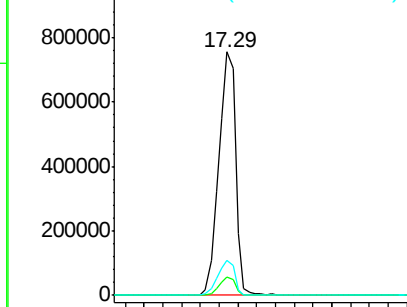
#78  
 Terphenyl-d14  
 Concen: 75.73 ng  
 RT: 17.29 min Scan# 2610  
 Delta R.T. -0.02 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:244 Resp: 958515  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.0 9.0  
 122 14.2 10.3 15.5

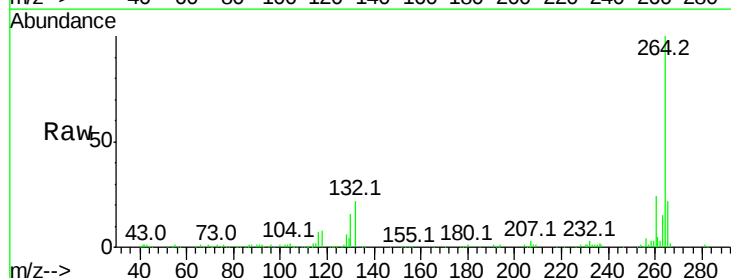


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.30 min Scan# 3122  
 Delta R.T. -0.01 min  
 Lab File: BF095034.D  
 Acq: 9 May 2017 21:44

Tgt Ion:264 Resp: 193951  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.5 29.3  
 265 21.7 17.2 25.8



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

