

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070317\  
 Data File : BF096439.D  
 Acq On : 3 Jul 2017 14:19  
 Operator : SJ/MA  
 Sample : I3908-10RE 5X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 03 16:15:27 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 01:43:12 2017  
 Response via : Initial Calibration

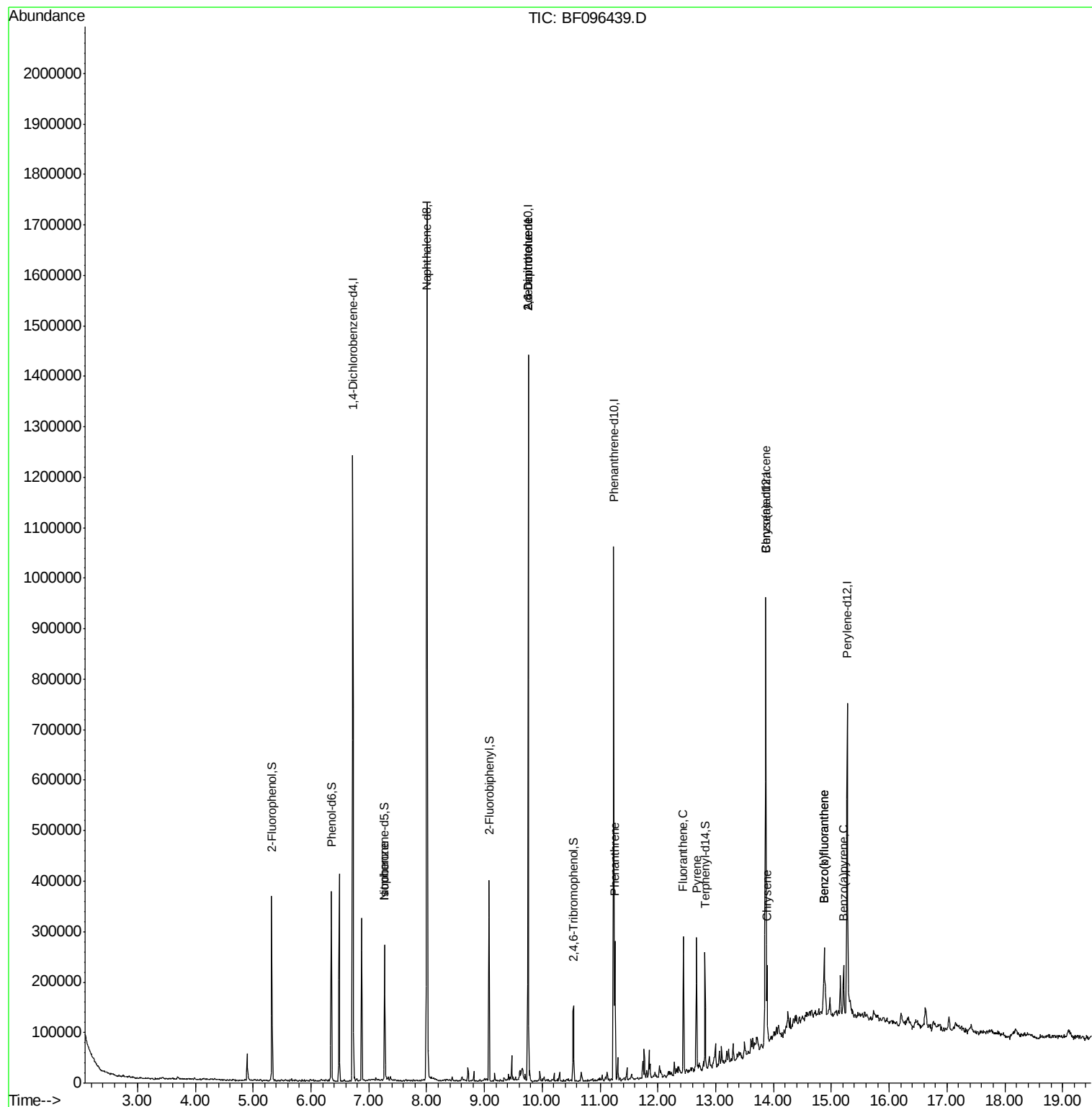
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 169762   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.00  | 136  | 715960   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.76  | 164  | 260218   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.23 | 188  | 359825   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 13.86 | 240  | 272178   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 15.27 | 264  | 259650   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 100700   | 8.76  | ng    | -0.02    |
| 7) Phenol-d6                | 6.35  | 99   | 111129   | 7.86  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 69201    | 5.81  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 15705    | 7.73  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 117865   | 7.74  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.82 | 244  | 57810    | 4.54  | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.27  | 82   | 68969    | 2.99  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene      | 9.76  | 165  | 33440    | 7.78  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene      | 9.76  | 165  | 33440    | 6.15  | ng    | # 33     |
| 70) Phenanthrene            | 11.26 | 178  | 95075    | 4.89  | ng    | 96       |
| 74) Fluoranthene            | 12.44 | 202  | 104019   | 5.45  | ng    | 98       |
| 77) Pyrene                  | 12.67 | 202  | 98965    | 4.53  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.86 | 228  | 54006    | 3.43  | ng    | 96       |
| 82) Chrysene                | 13.89 | 228  | 56776    | 3.44  | ng    | 99       |
| 87) Benzo(b)fluoranthene    | 14.87 | 252  | 84309    | 5.18  | ng    | # 95     |
| 88) Benzo(k)fluoranthene    | 14.87 | 252  | 84309    | 5.79  | ng    | 98       |
| 89) Benzo(a)pyrene          | 15.21 | 252  | 43641    | 3.00  | ng    | # 90     |

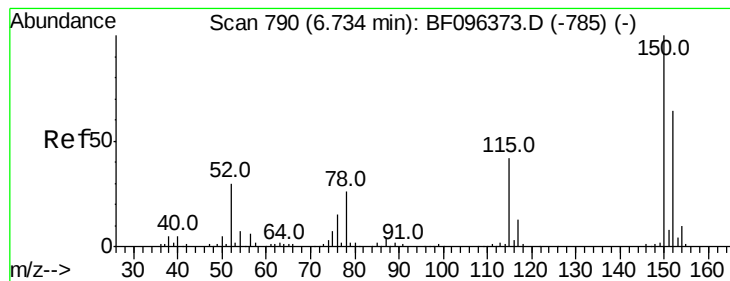
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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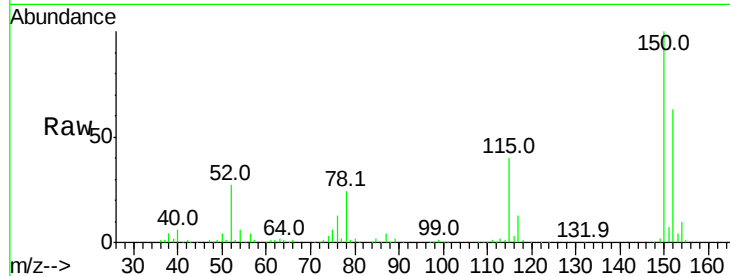


#1

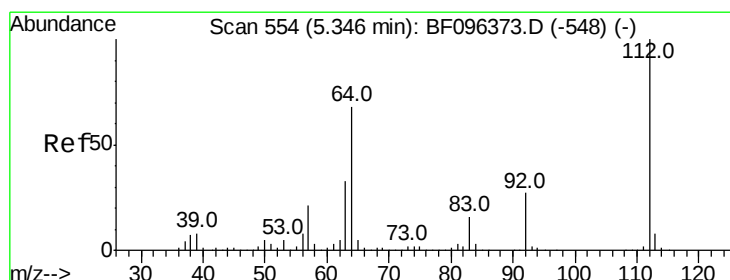
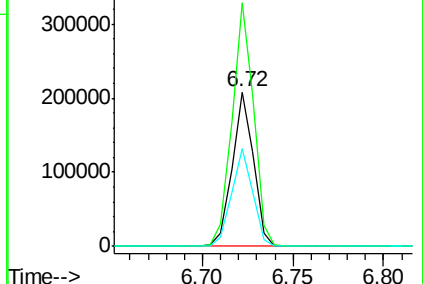
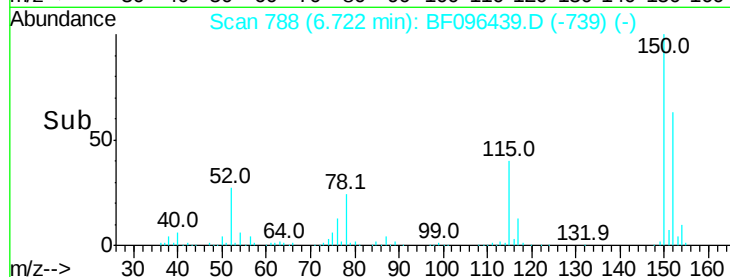
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF096439.D  
Acq: 3 Jul 2017 14:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 169762  
Ion Ratio Lower Upper  
152 100  
150 157.7 126.2 189.2  
115 62.9 52.2 78.2



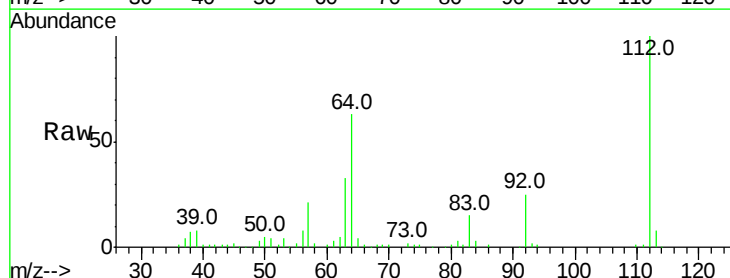
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



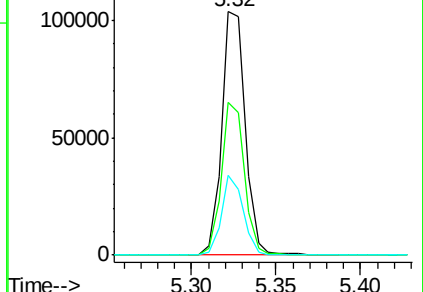
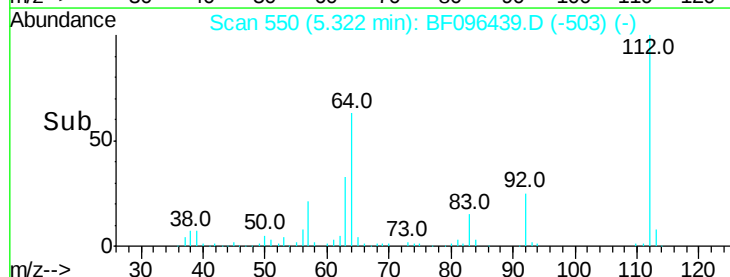
#5

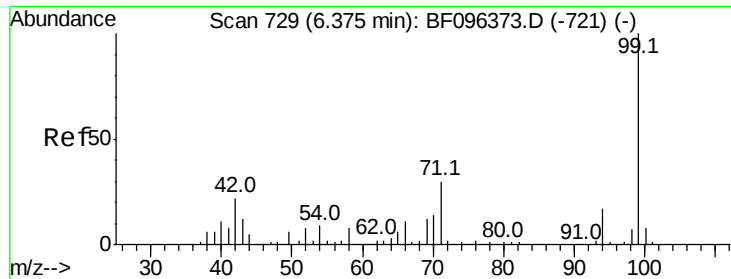
2-Fluorophenol  
Concen: 8.76 ng  
RT: 5.32 min Scan# 550  
Delta R.T. -0.02 min  
Lab File: BF096439.D  
Acq: 3 Jul 2017 14:19

Tgt Ion:112 Resp: 100700  
Ion Ratio Lower Upper  
112 100  
64 62.7 46.0 69.0  
63 32.9 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: 7.86 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Instrument :

BNA\_F

ClientSampleId :

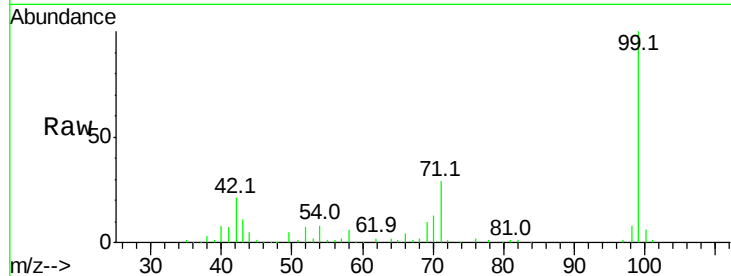
Tot Ion: 99 Resp: 111129

Ion Ratio Lower Upper

99 100

42 20.9 13.5 20.3#

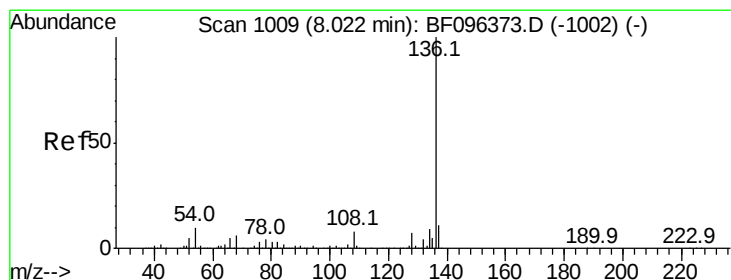
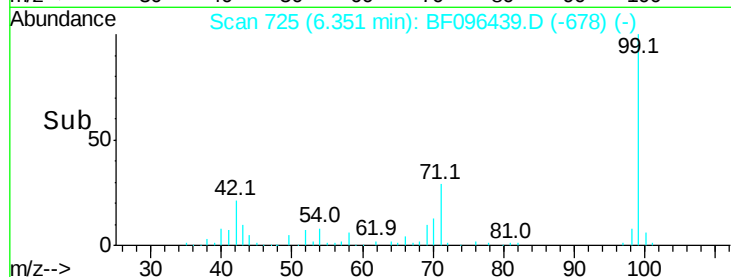
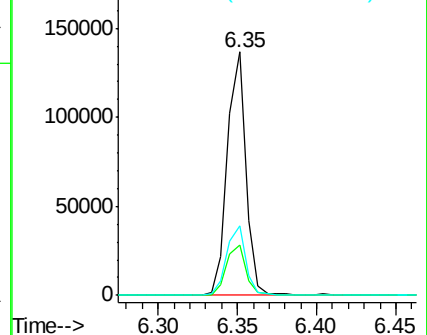
71 28.5 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Tgt Ion: 136 Resp: 715960

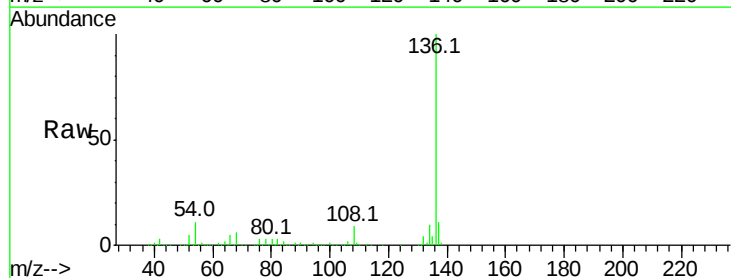
Ion Ratio Lower Upper

136 100

137 11.5 8.5 12.7

54 10.9 4.9 7.3#

68 5.8 4.1 6.1

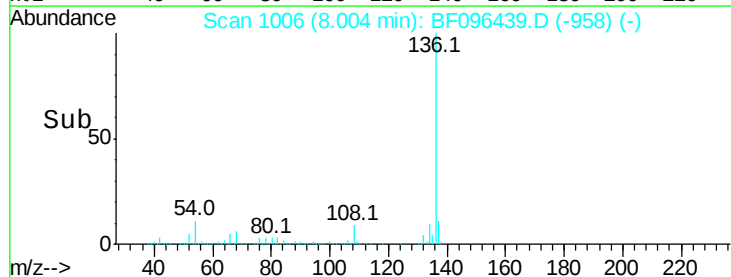
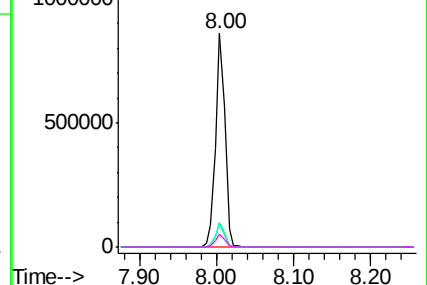


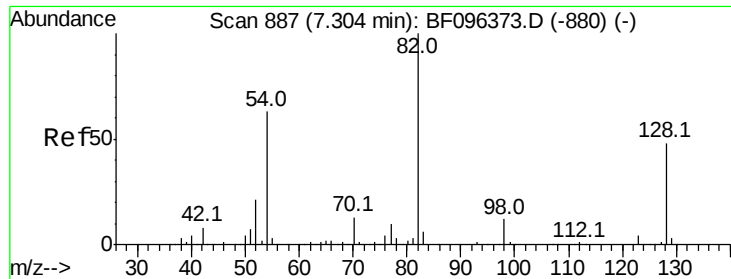
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

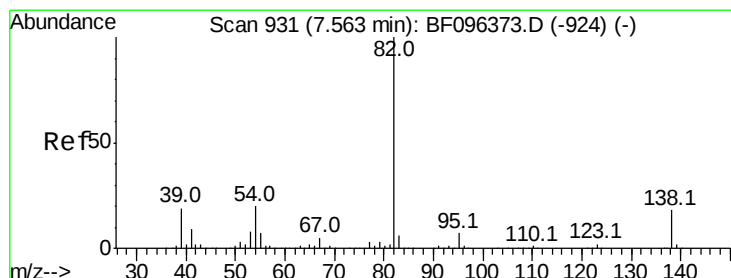
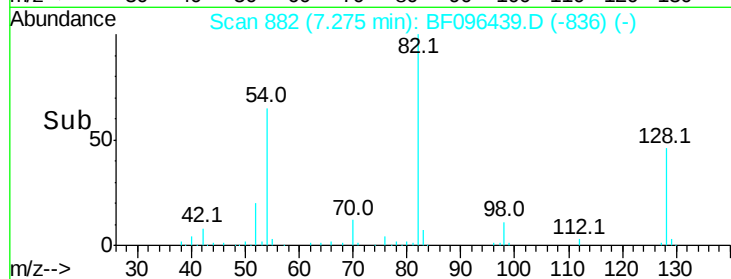
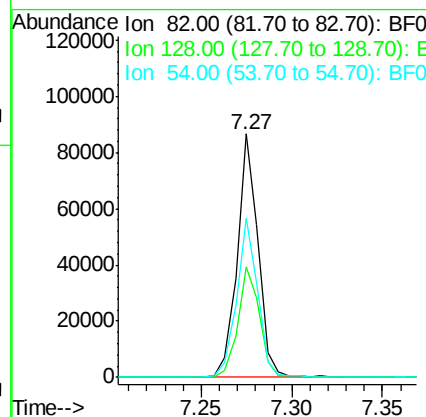
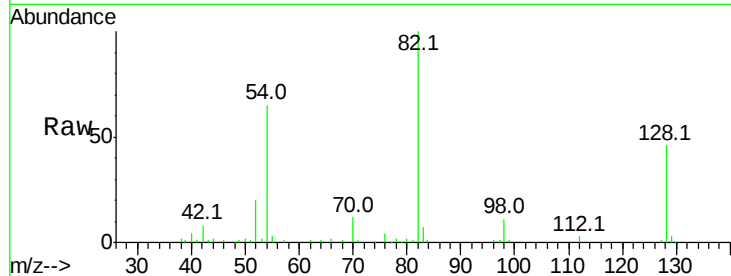




#23  
 Nitrobenzene-d5  
 Concen: 5.81 ng  
 RT: 7.27 min Scan# 882  
 Delta R.T. -0.03 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

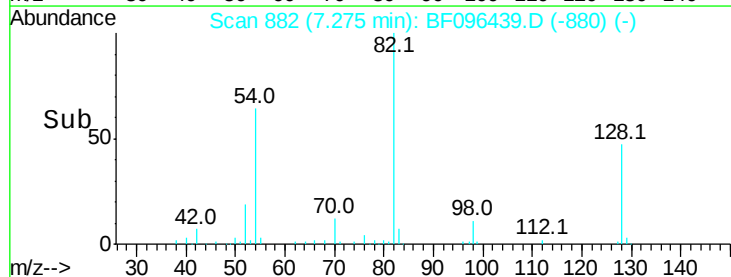
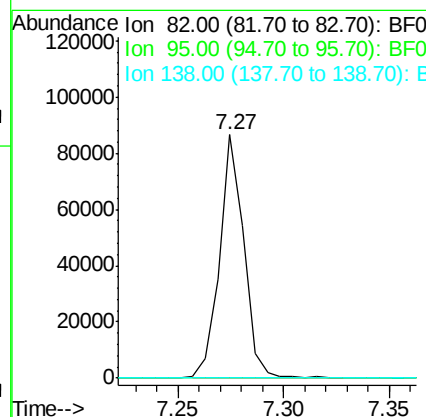
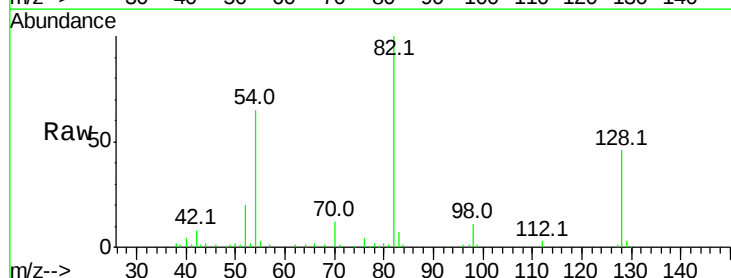
Instrument :  
 BNA\_F  
 ClientSampled :

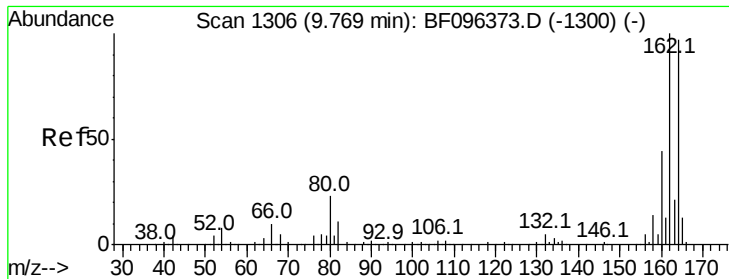
| Tot Ion   | 82   | Resp  | 69201 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 45.5 | 34.0  | 51.0  |
| 54        | 65.1 | 42.2  | 63.2# |



#25  
 Isophorone  
 Concen: 2.99 ng  
 RT: 7.27 min Scan# 882  
 Delta R.T. -0.29 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

| Tgt Ion   | 82  | Resp  | 68969 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 95        | 0.0 | 5.3   | 7.9#  |
| 138       | 0.0 | 13.1  | 19.7# |

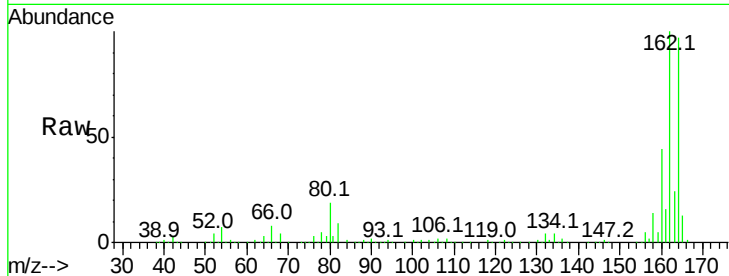




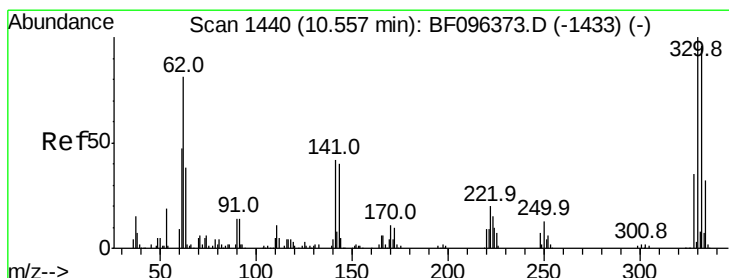
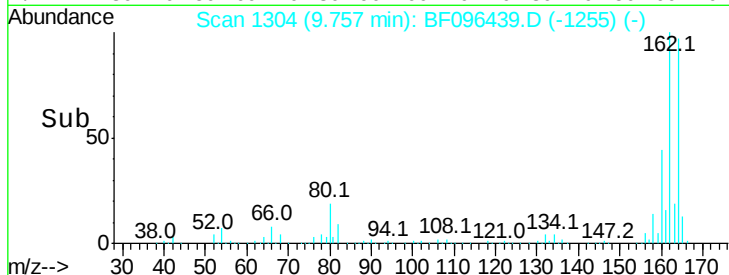
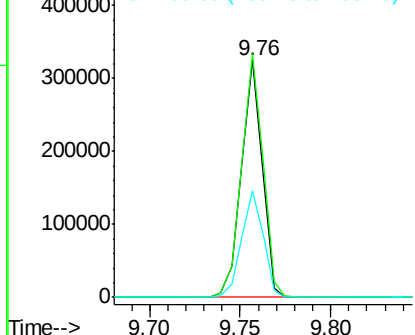
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF096439.D  
Acq: 3 Jul 2017 14:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 260218  
Ion Ratio Lower Upper  
164 100  
162 102.8 82.6 123.8  
160 45.3 36.2 54.2

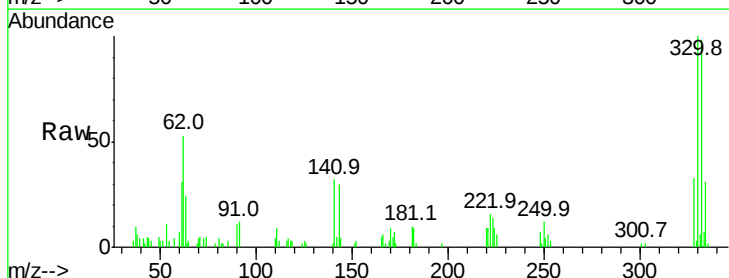


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

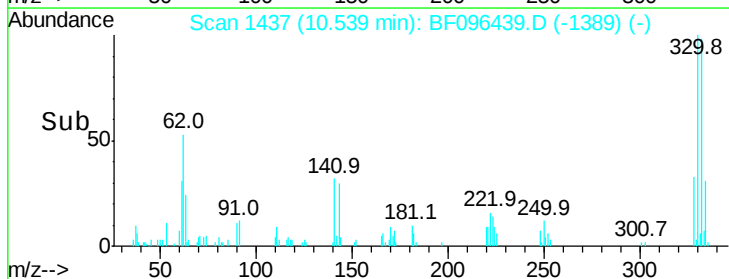
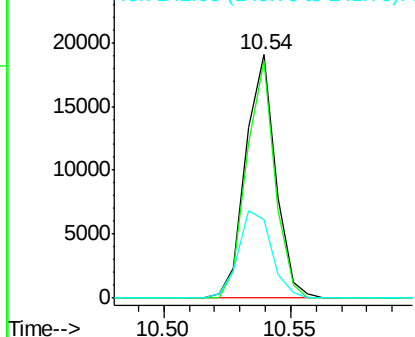


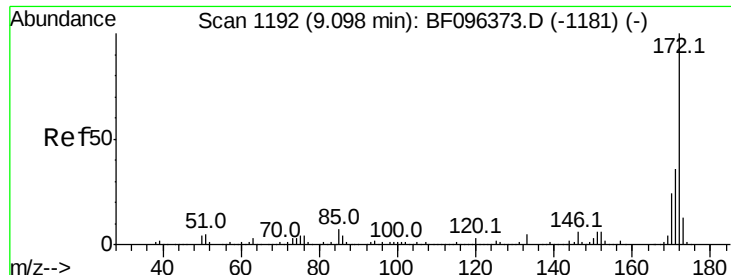
#41  
2,4,6-Tribromophenol  
Concen: 7.73 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. -0.02 min  
Lab File: BF096439.D  
Acq: 3 Jul 2017 14:19

Tgt Ion:330 Resp: 15705  
Ion Ratio Lower Upper  
330 100  
332 91.4 76.6 115.0  
141 40.0 31.4 47.2



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

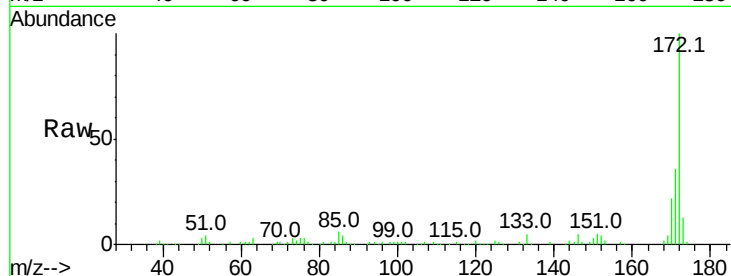




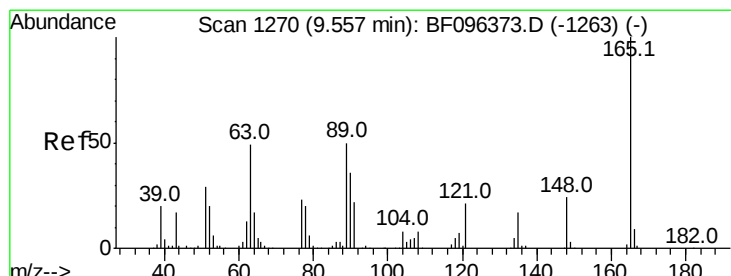
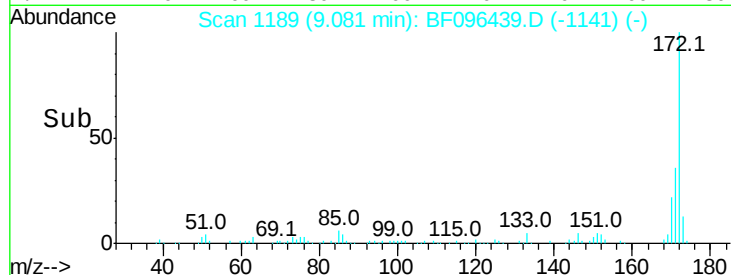
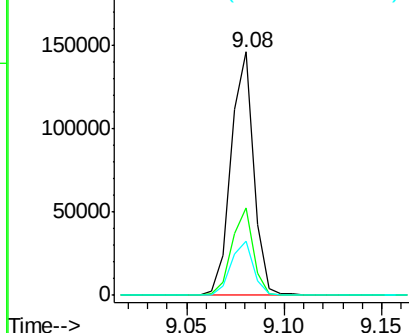
#44  
 2-Fluorobiphenyl  
 Concen: 7.74 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.02 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 117865  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 22.4 19.8 29.8

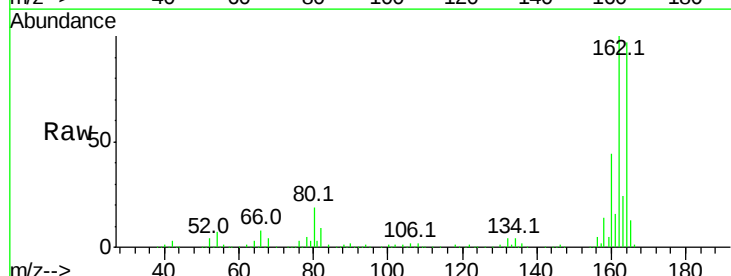


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

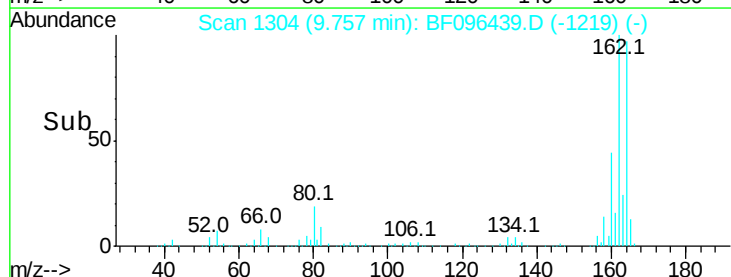
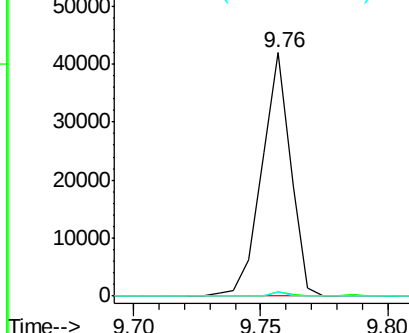


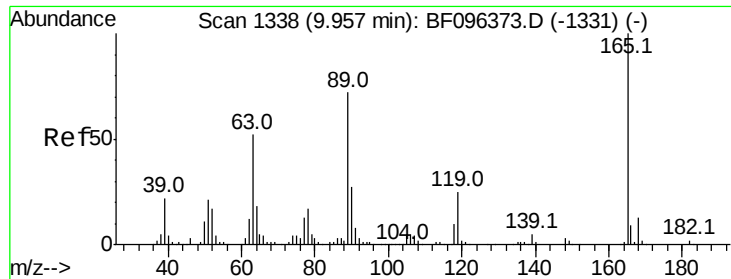
#50  
 2,6-Dinitrotoluene  
 Concen: 7.78 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.20 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

Tgt Ion:165 Resp: 33440  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 34.3 51.5#  
 89 1.5 37.1 55.7#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

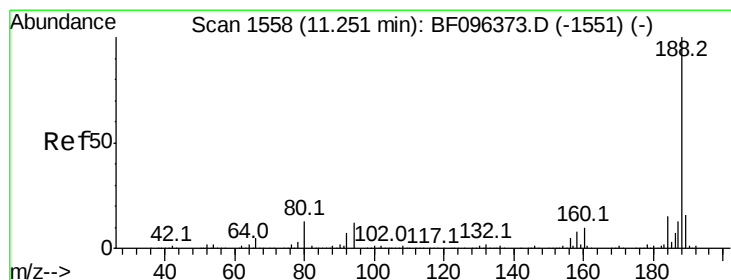
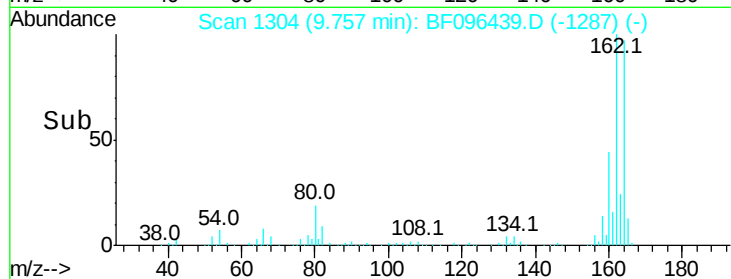
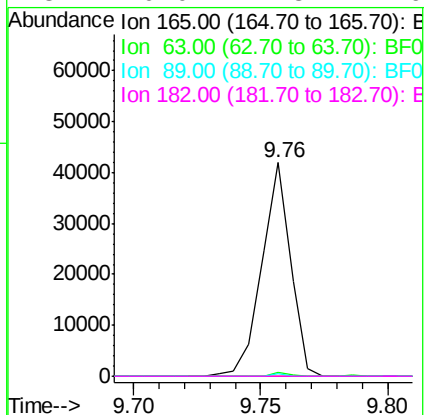
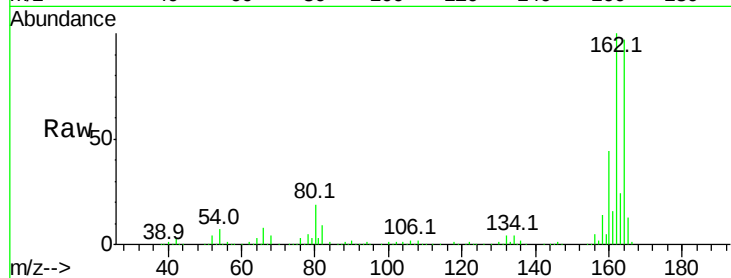




#56  
 2,4-Dinitrotoluene  
 Concen: 6.15 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.20 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

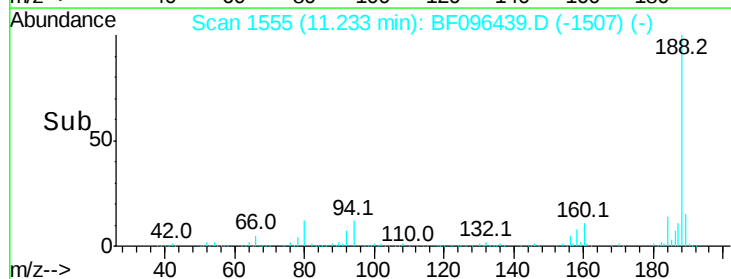
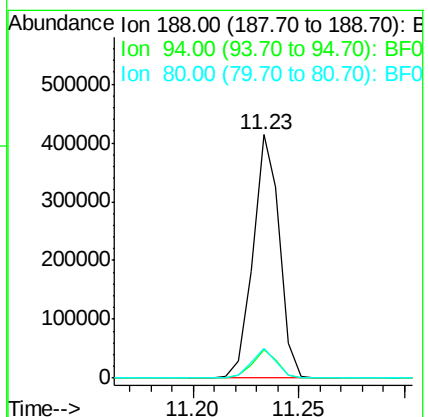
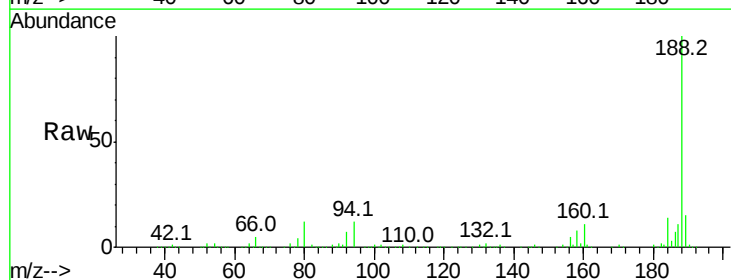
Instrument :  
 BNA\_F  
 ClientSampleId :

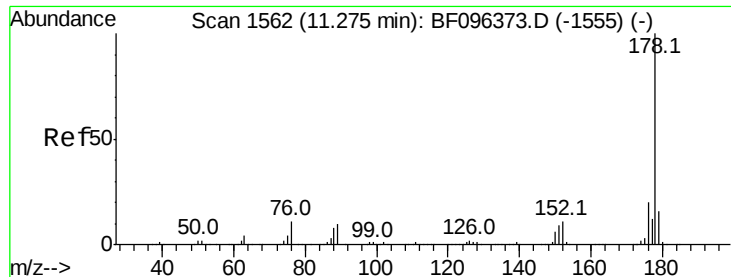
Tot Ion:165 Resp: 33440  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 25.4 38.0#  
 89 1.5 46.4 69.6#  
 182 0.0 1.8 2.6#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.23 min Scan# 1555  
 Delta R.T. -0.02 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

Tgt Ion:188 Resp: 359825  
 Ion Ratio Lower Upper  
 188 100  
 94 11.6 9.4 14.2  
 80 12.3 10.2 15.2

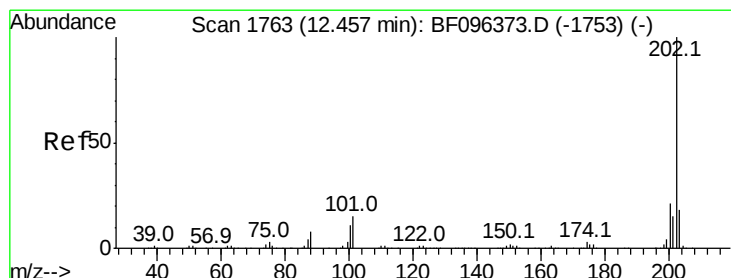
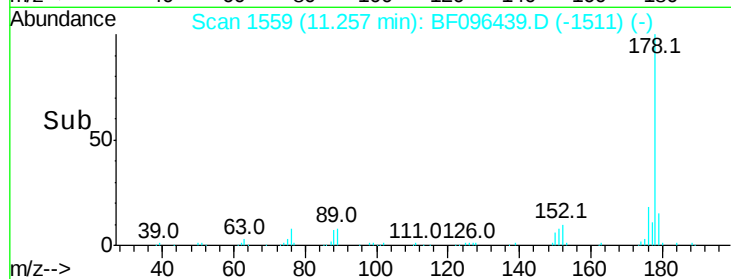
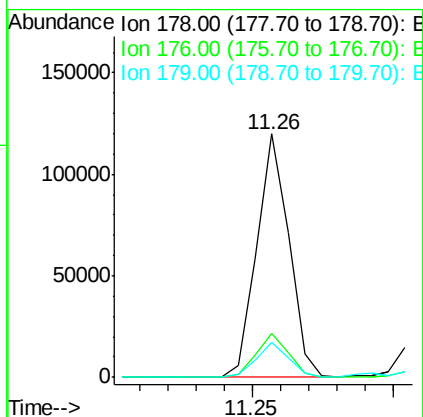
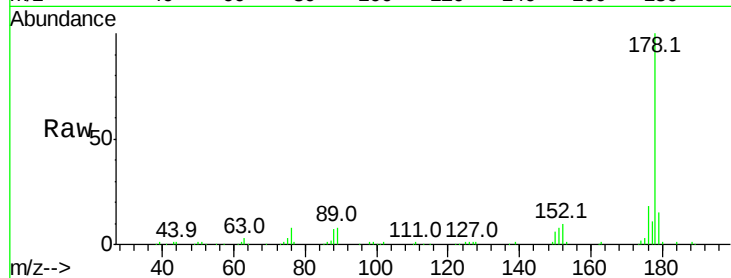




#70  
 Phenanthrene  
 Concen: 4.89 ng  
 RT: 11.26 min Scan# 1559  
 Delta R.T. -0.02 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

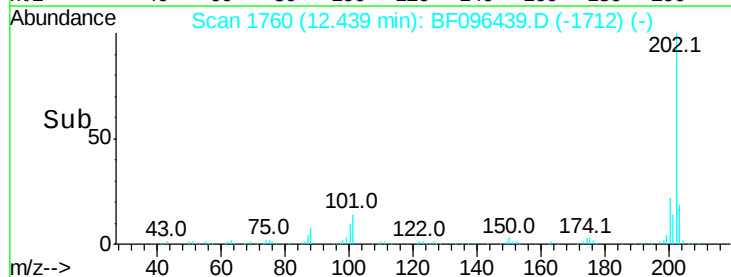
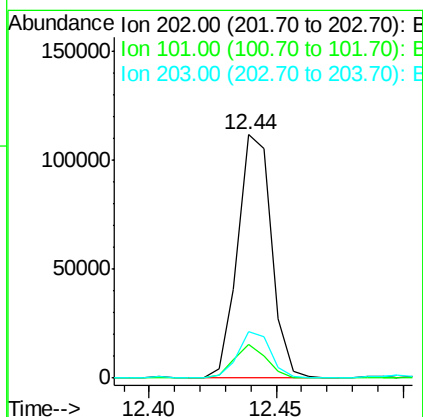
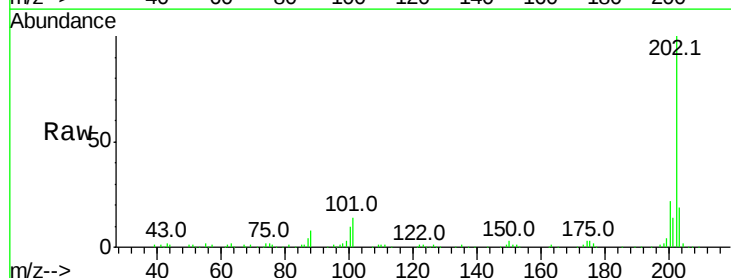
Instrument :  
 BNA\_F  
 ClientSampleId :

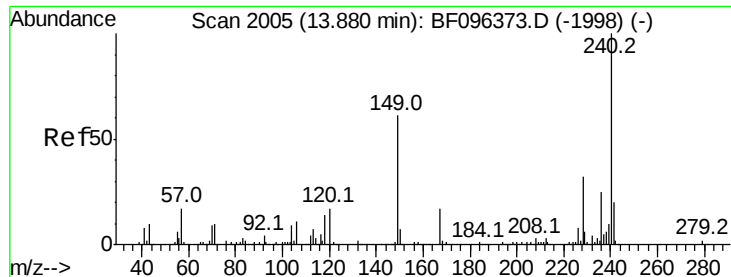
Tot Ion:178 Resp: 95075  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 16.2 24.4  
 179 14.5 12.6 19.0



#74  
 Fluoranthene  
 Concen: 5.45 ng  
 RT: 12.44 min Scan# 1760  
 Delta R.T. -0.02 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

Tgt Ion:202 Resp: 104019  
 Ion Ratio Lower Upper  
 202 100  
 101 13.7 0.0 33.2  
 203 18.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Instrument :

BNA\_F

ClientSampleId :

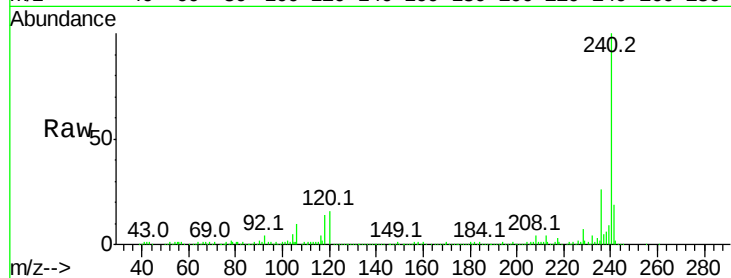
Tot Ion:240 Resp: 272178

Ion Ratio Lower Upper

240 100

120 15.9 5.8 8.8#

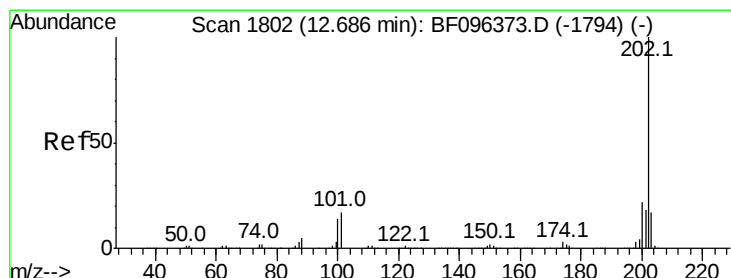
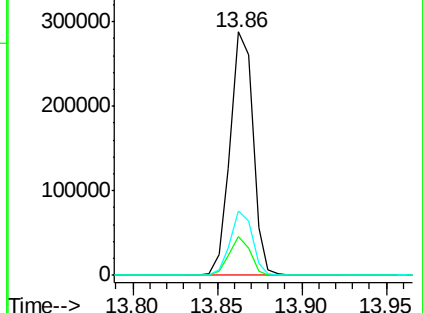
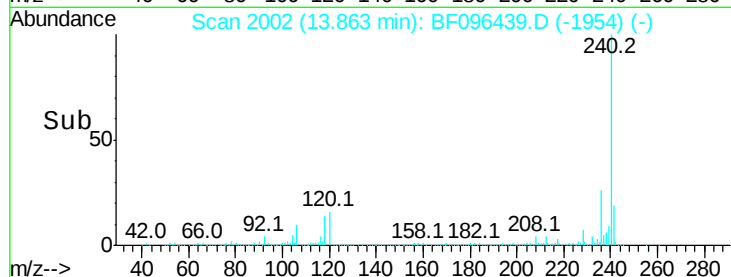
236 26.3 20.5 30.7



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



#77

Pyrene

Concen: 4.53 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

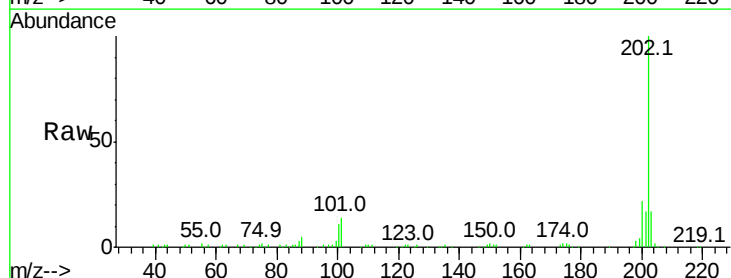
Tgt Ion:202 Resp: 98965

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

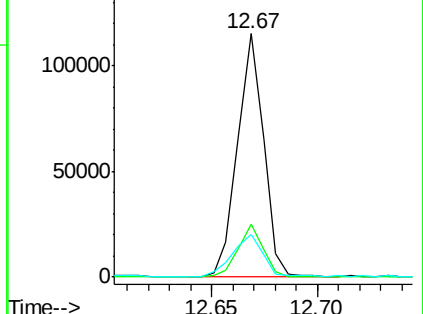
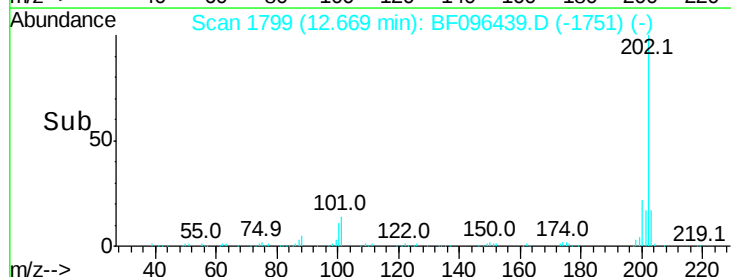
203 17.3 14.4 21.6

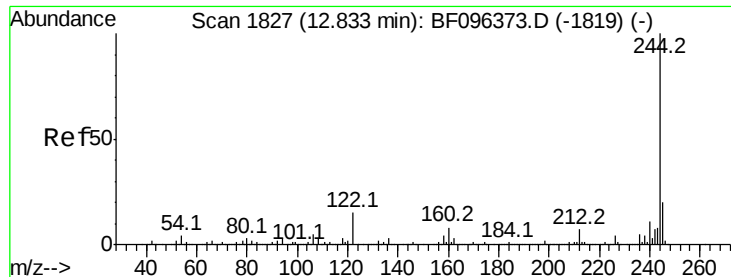


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

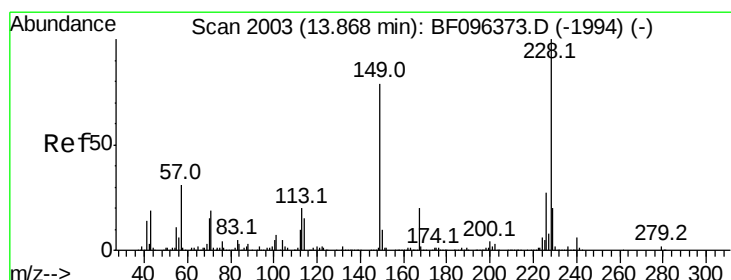
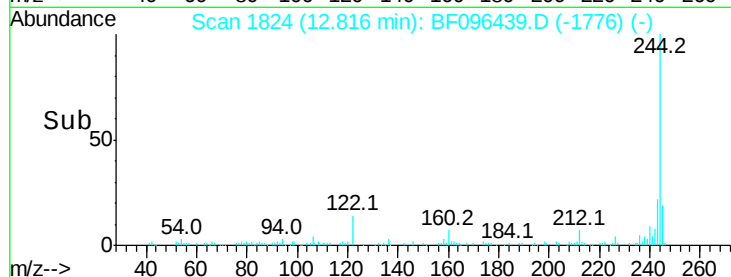
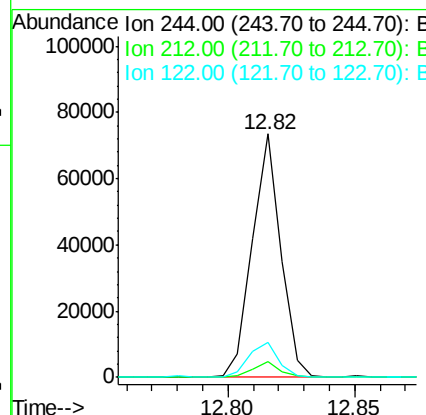
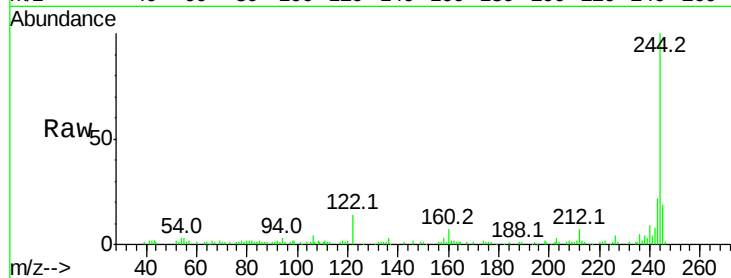




#78  
 Terphenyl-d14  
 Concen: 4.54 ng  
 RT: 12.82 min Scan# 1824  
 Delta R.T. -0.02 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

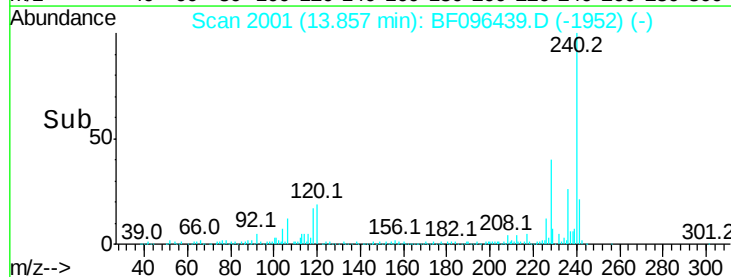
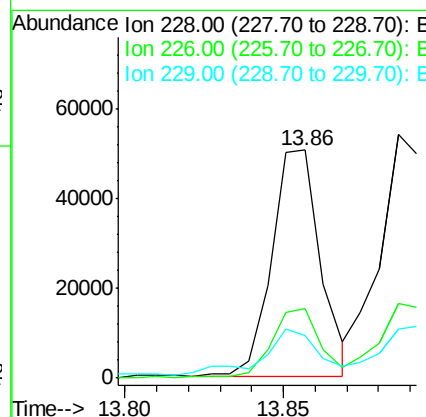
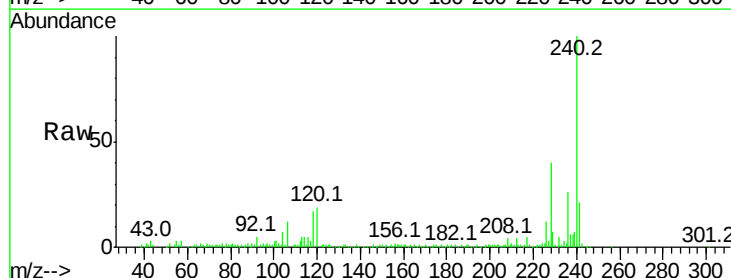
Instrument :  
 BNA\_F  
 ClientSampleId :

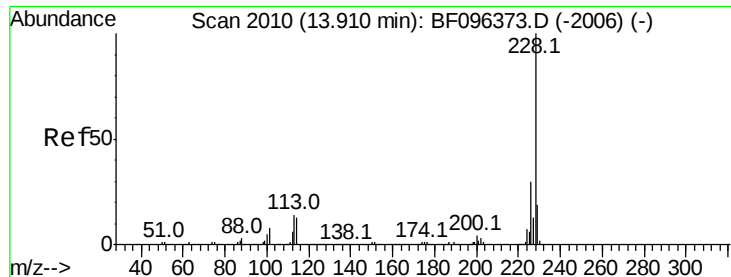
Tot Ion:244 Resp: 57810  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 6.0 9.0  
 122 14.4 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 3.43 ng  
 RT: 13.86 min Scan# 2001  
 Delta R.T. -0.01 min  
 Lab File: BF096439.D  
 Acq: 3 Jul 2017 14:19

Tgt Ion:228 Resp: 54006  
 Ion Ratio Lower Upper  
 228 100  
 226 30.2 22.6 33.8  
 229 18.5 16.3 24.5





#82

Chrysene

Concen: 3.44 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Instrument :

BNA\_F

ClientSampleId :

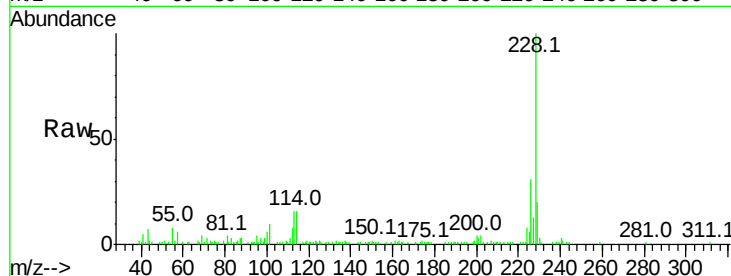
Tot Ion:228 Resp: 56776

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

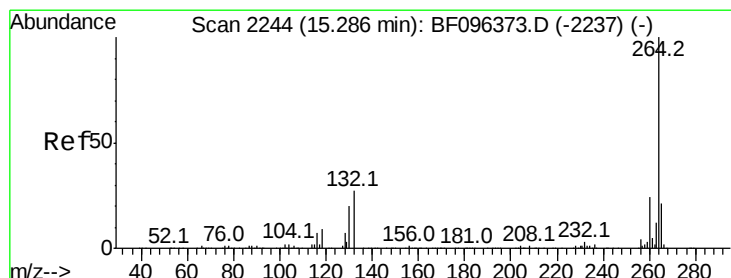
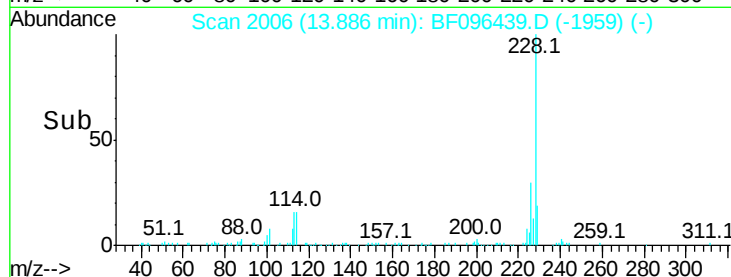
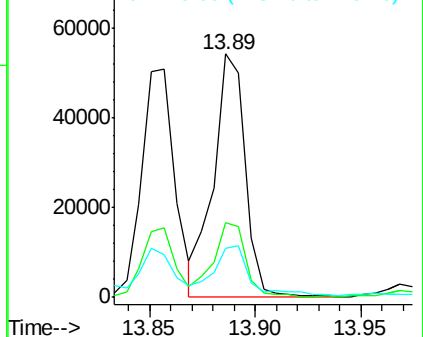
229 20.3 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.27 min Scan# 2242

Delta R.T. -0.01 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

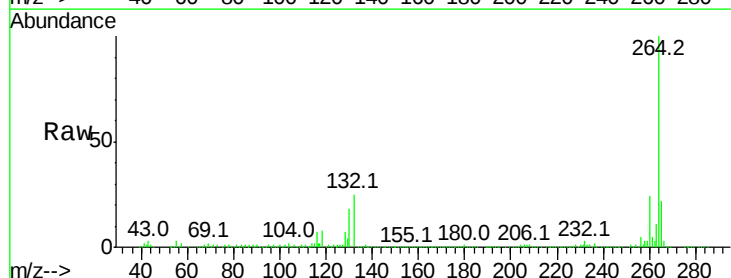
Tgt Ion:264 Resp: 259650

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

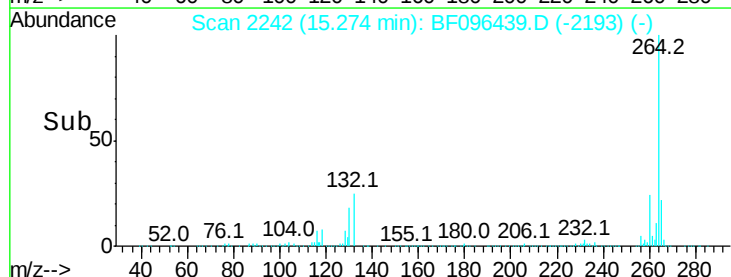
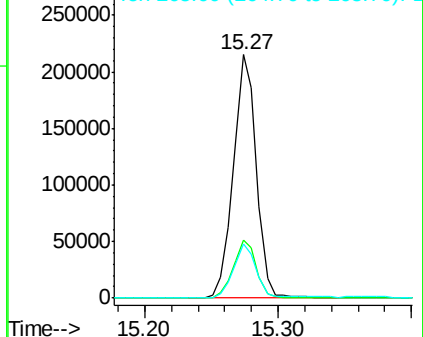
265 22.1 17.2 25.8

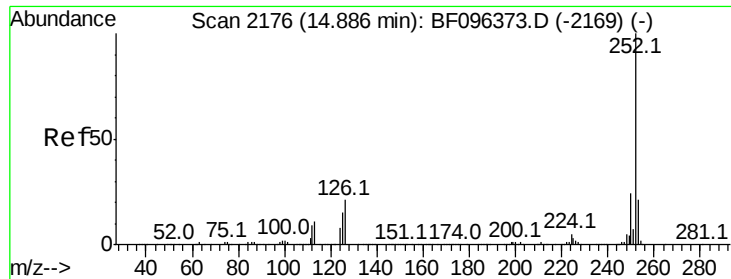


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.18 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Instrument :

BNA\_F

ClientSampleId :

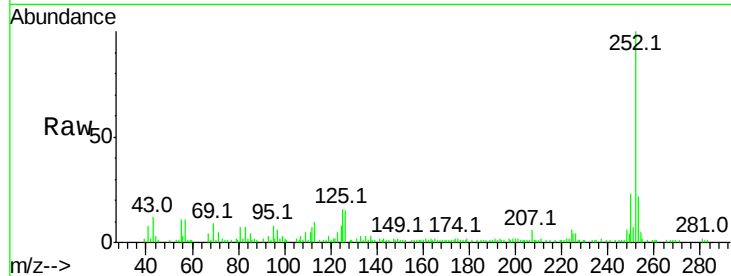
Tot Ion:252 Resp: 84309

Ion Ratio Lower Upper

252 100

253 21.7 18.1 27.1

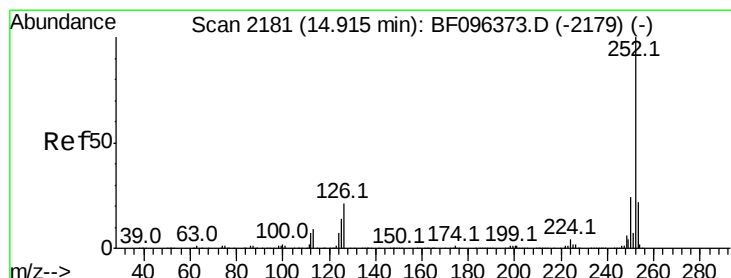
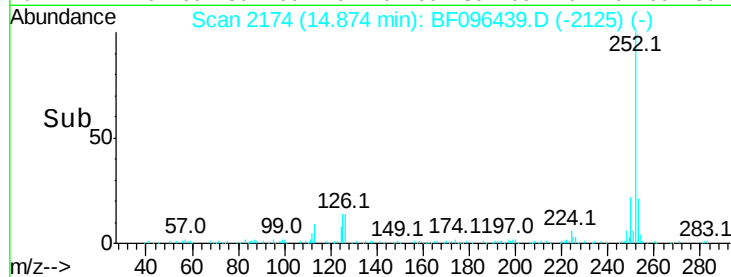
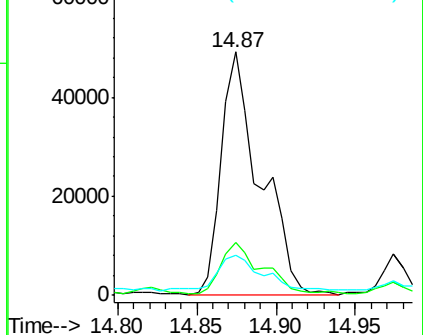
125 16.2 9.8 14.8#



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: 5.79 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.04 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

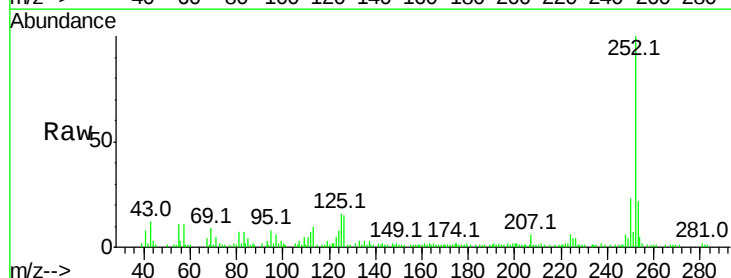
Tgt Ion:252 Resp: 84309

Ion Ratio Lower Upper

252 100

253 21.7 18.4 27.6

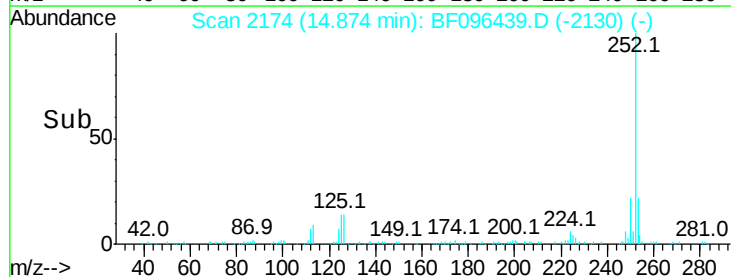
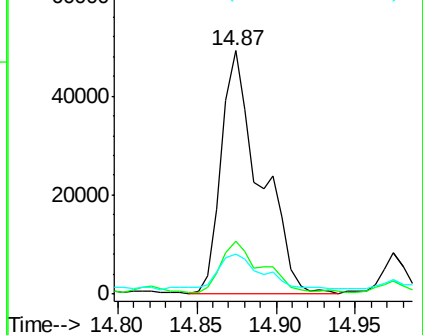
125 16.2 13.1 19.7

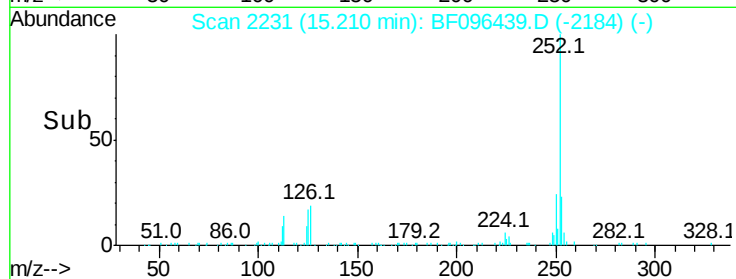
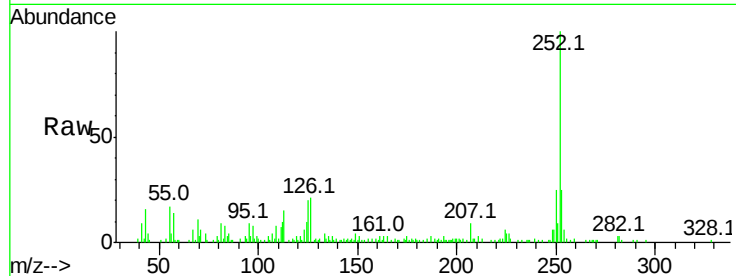
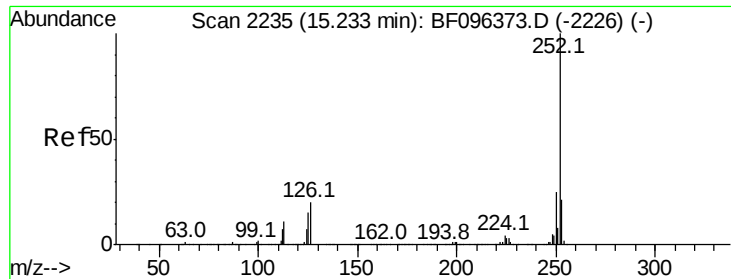


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.00 ng

RT: 15.21 min Scan# 2231

Delta R.T. -0.02 min

Lab File: BF096439.D

Acq: 3 Jul 2017 14:19

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:252 Resp: 43641

Ion Ratio Lower Upper

252 100

253 24.6 17.5 26.3

125 20.1 11.0 16.4#

