

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031517\  
 Data File : BF093688.D  
 Acq On : 16 Mar 2017 00:33  
 Operator : SJ/MA  
 Sample : I2264-16 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-EE9-ESW

Quant Time: Mar 16 01:45:36 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

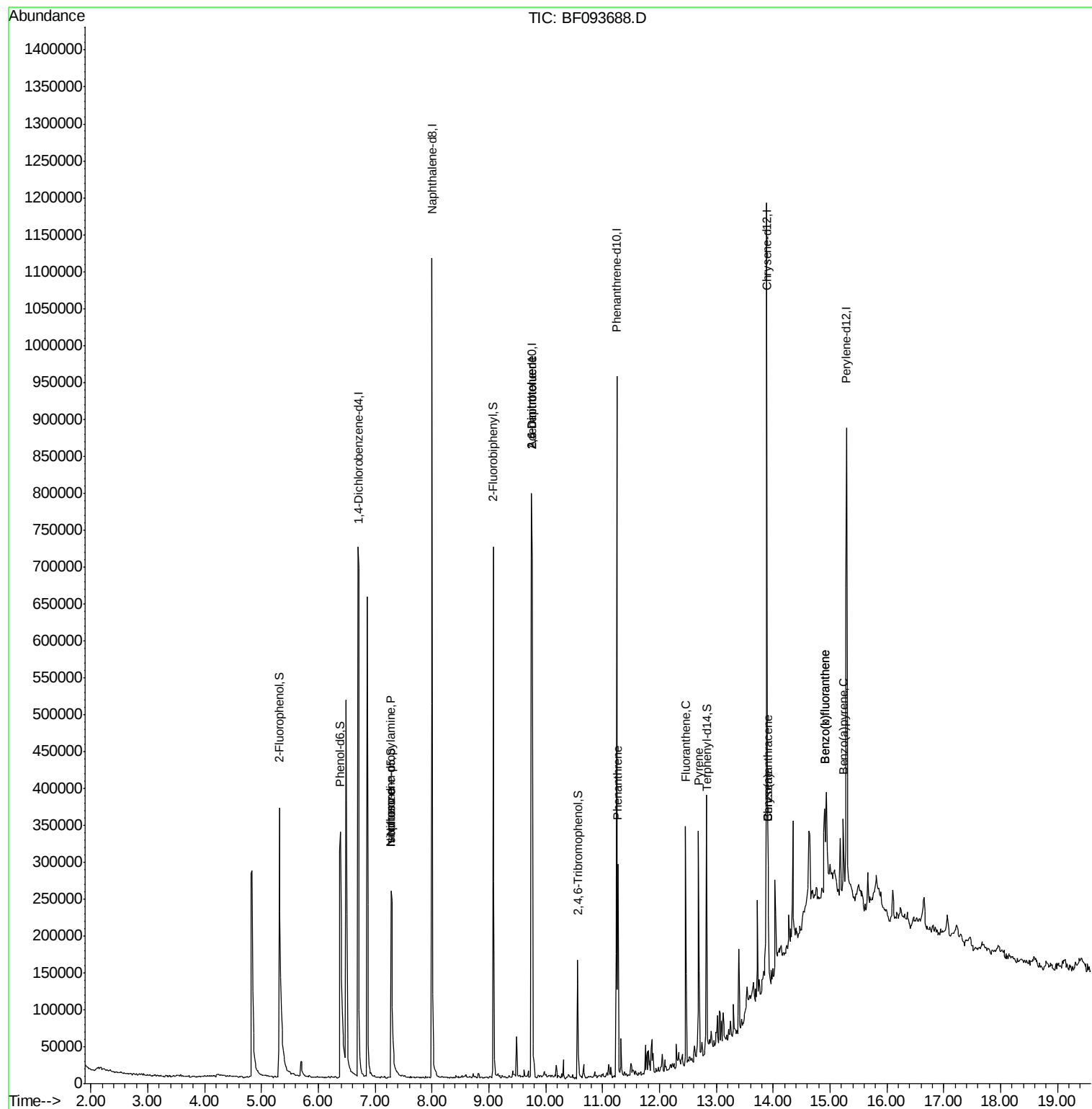
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 166501   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.00  | 136  | 594259   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 220688   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 339644   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 352282   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.29 | 264  | 295992   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 215695   | 21.56     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.39  | 99   | 297702   | 23.60     | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 175691   | 16.40     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 27601    | 19.20     | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 238598   | 20.11     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 146205   | 10.79     | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.38  | 77   | 1044     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 22244    | 2.56      | ng    | # 85     |
| 25) Isophorone                 | 7.28  | 82   | 175688   | 8.13      | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 28029    | 8.73      | ng    | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 28029    | 7.11      | ng    | # 21     |
| 70) Phenanthrene               | 11.27 | 178  | 105834   | 5.46      | ng    | 98       |
| 74) Fluoranthene               | 12.46 | 202  | 134399   | 7.18      | ng    | 96       |
| 77) Pyrene                     | 12.69 | 202  | 136251   | 5.32      | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.91 | 228  | 53220    | 2.56      | ng    | 94       |
| 82) Chrysene                   | 13.91 | 228  | 53191    | 2.76      | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.91 | 252  | 89985    | 4.99      | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 14.91 | 252  | 89985    | 5.18      | ng    | # 97     |
| 89) Benzo(a)pyrene             | 15.24 | 252  | 47506    | 2.88      | ng    | # 87     |

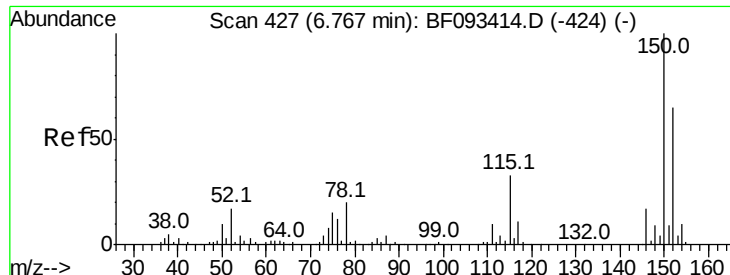
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 13 15:05:08 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 422

Delta R.T. -0.01 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

E2-EE9-ESW

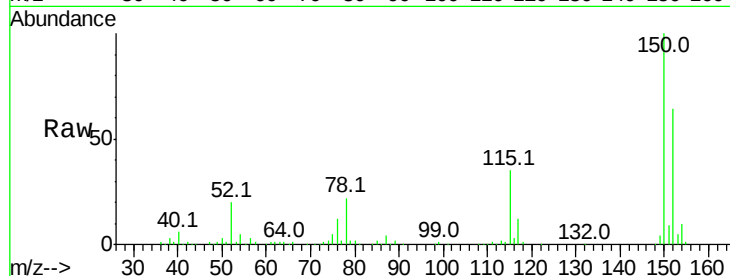
Tot Ion:152 Resp: 166501

Ion Ratio Lower Upper

152 100

150 155.9 124.9 187.3

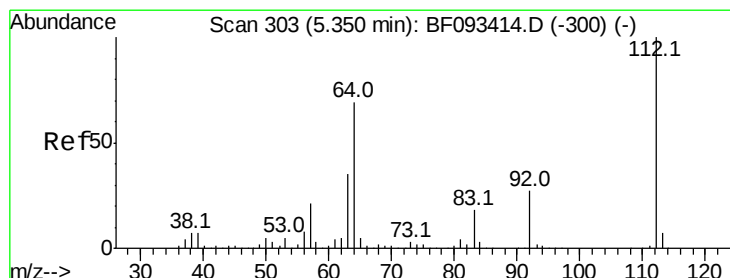
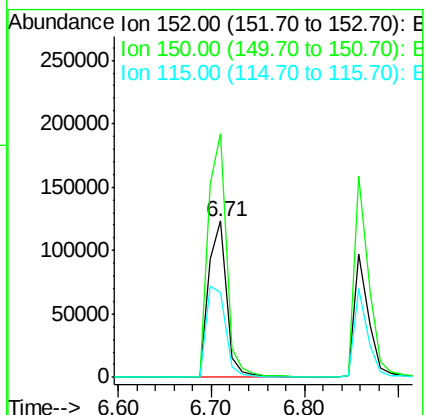
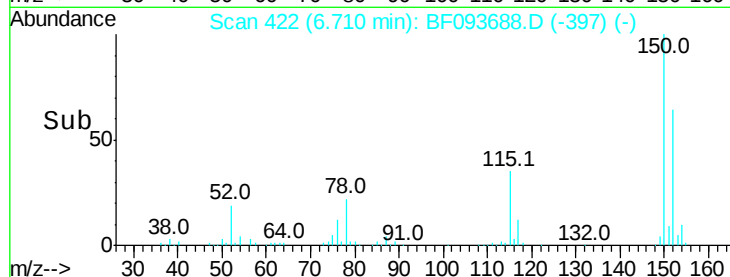
115 54.6 46.0 69.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 21.56 ng

RT: 5.32 min Scan# 300

Delta R.T. -0.00 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

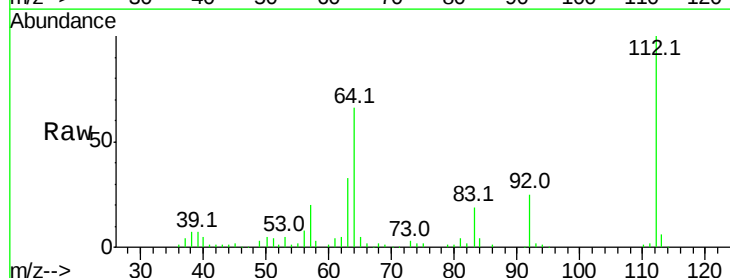
Tgt Ion:112 Resp: 215695

Ion Ratio Lower Upper

112 100

64 66.0 46.1 69.1

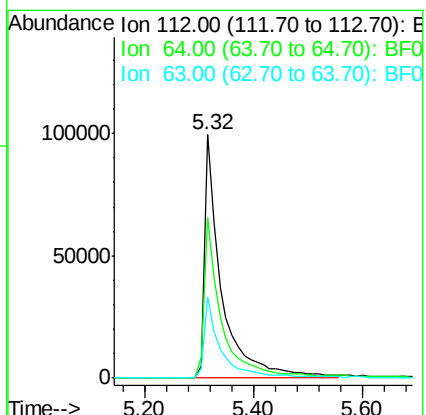
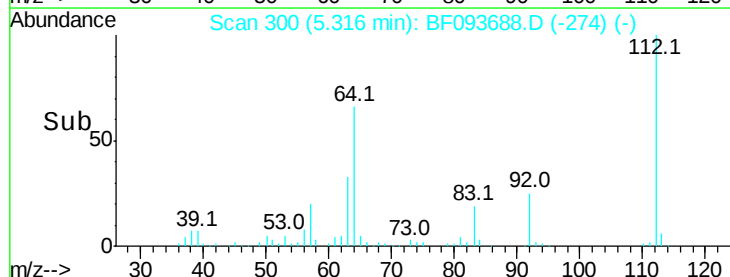
63 33.3 23.8 35.6

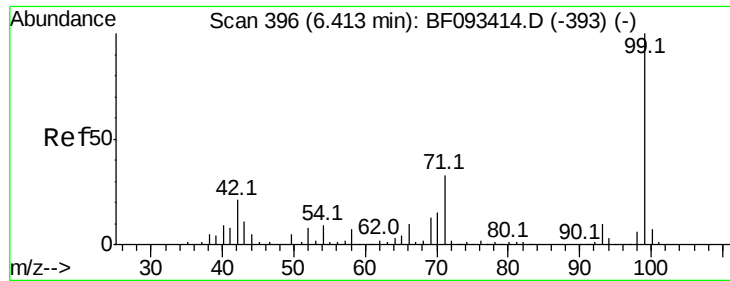


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.60 ng

RT: 6.39 min Scan# 394

Delta R.T. 0.01 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

E2-EE9-ESW

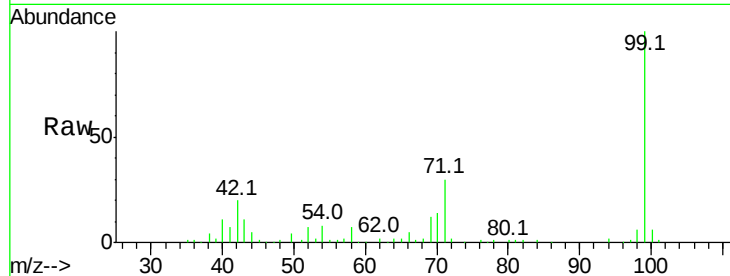
Tot Ion: 99 Resp: 297702

Ion Ratio Lower Upper

99 100

42 20.5 15.6 23.4

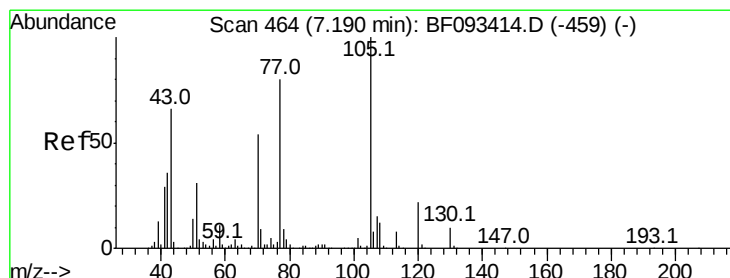
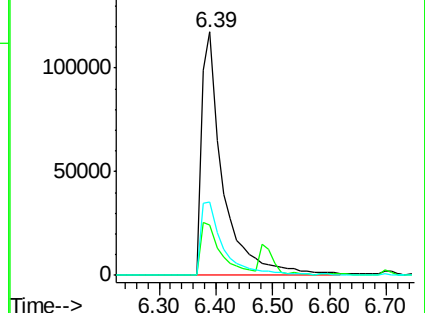
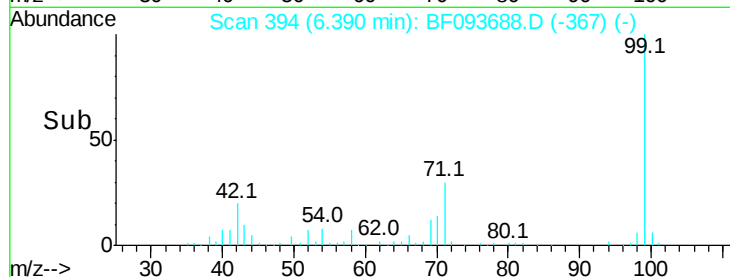
71 30.0 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.56 ng

RT: 7.28 min Scan# 472

Delta R.T. 0.14 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Tgt Ion: 70 Resp: 22244

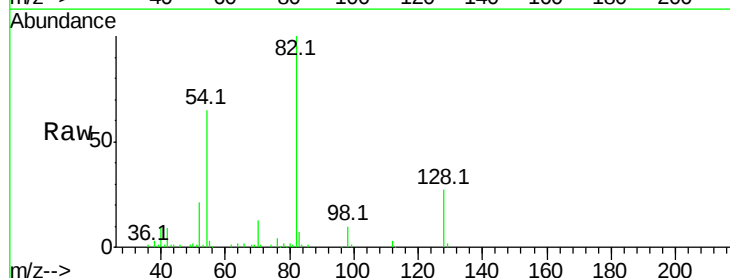
Ion Ratio Lower Upper

70 100

42 66.7 49.4 74.0

101 0.0 7.4 11.2#

130 0.0 14.2 21.4#

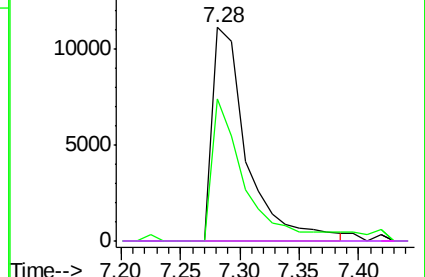
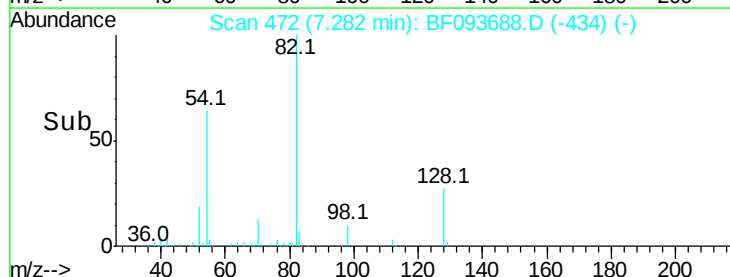


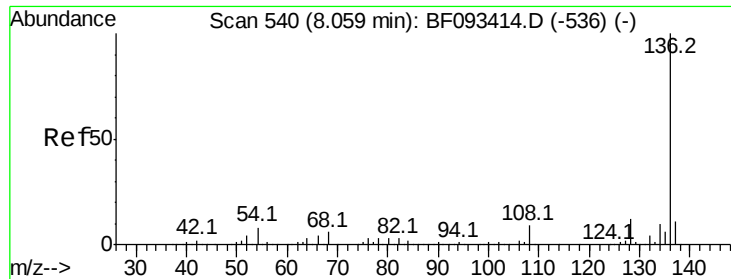
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

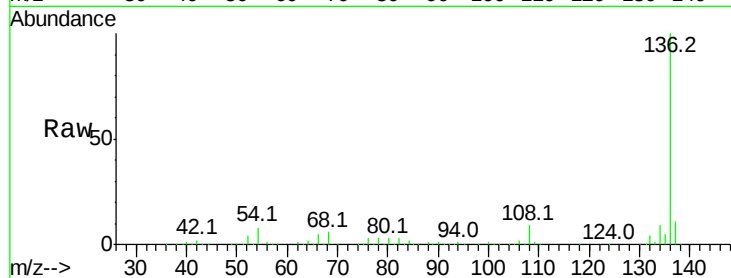




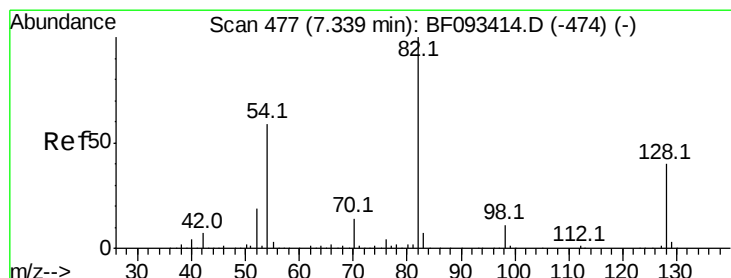
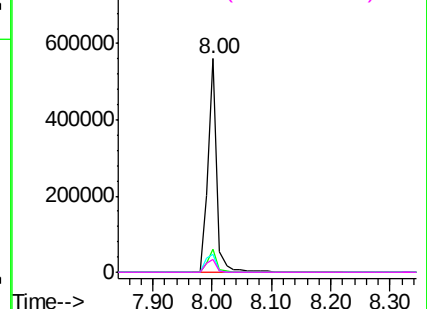
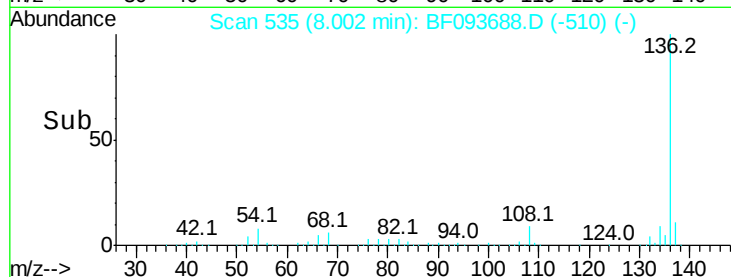
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :  
E2-EE9-ESW

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 594259 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.4   | 12.6   |
| 54       | 8.3   | 4.5   | 6.7#   |
| 68       | 5.9   | 3.6   | 5.4#   |

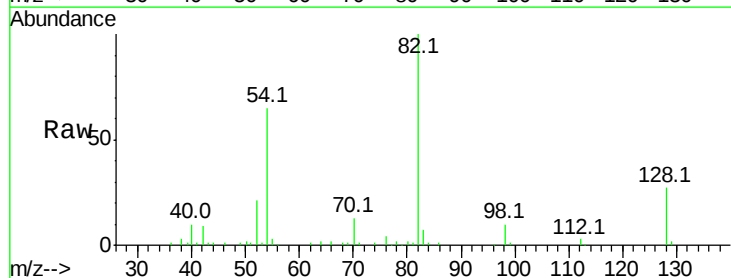


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

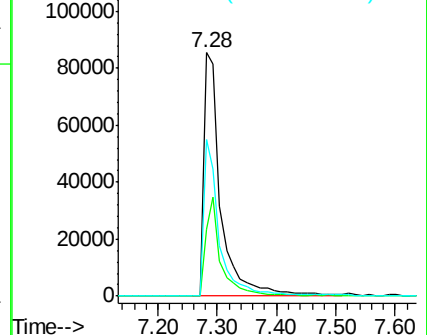
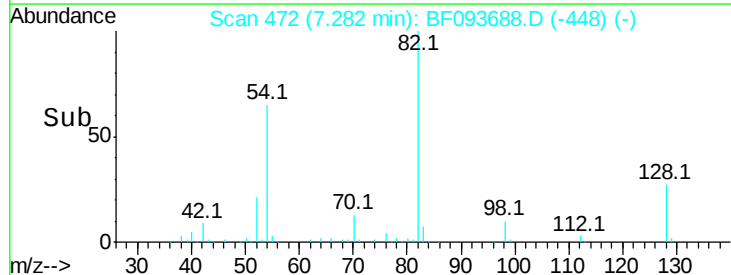


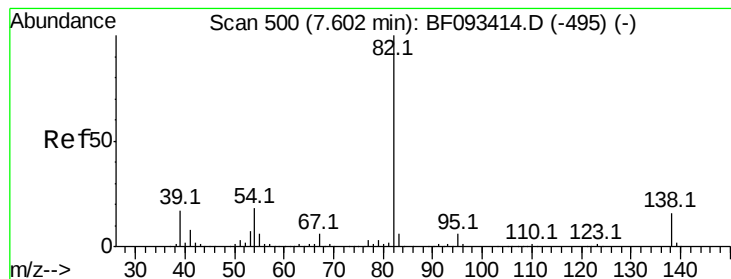
#23  
Nitrobenzene-d5  
Concen: 16.40 ng  
RT: 7.28 min Scan# 472  
Delta R.T. -0.02 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 175691 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 27.3  | 34.6  | 52.0#  |
| 54       | 64.5  | 39.5  | 59.3#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.13 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.27 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

E2-EE9-ESW

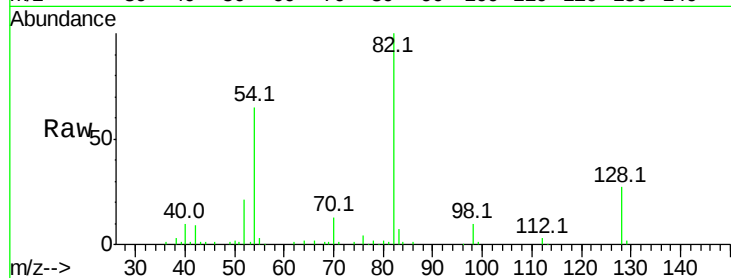
Tot Ion: 82 Resp: 175688

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

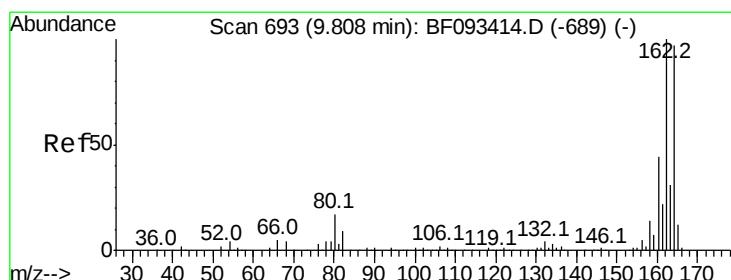
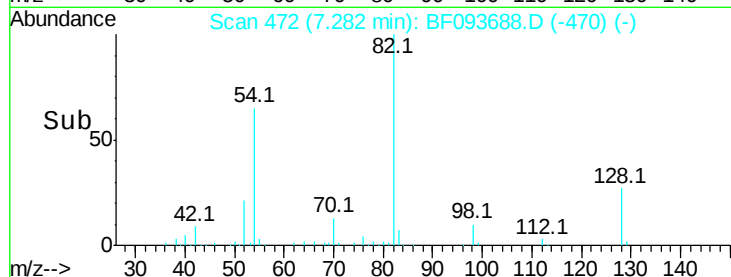
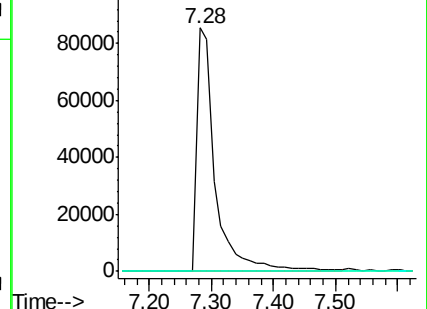
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

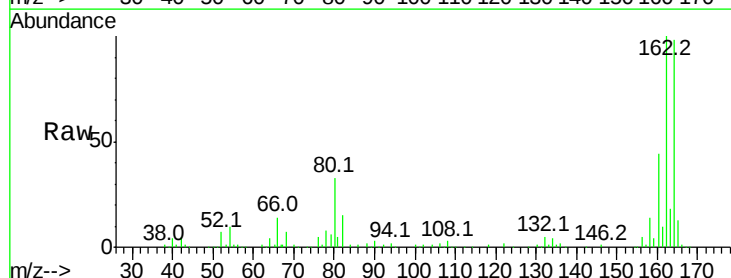
Tgt Ion:164 Resp: 220688

Ion Ratio Lower Upper

164 100

162 102.3 80.2 120.2

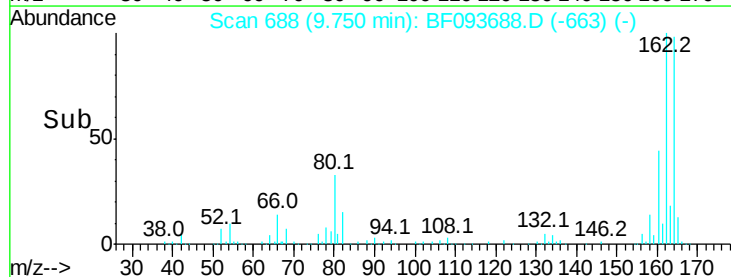
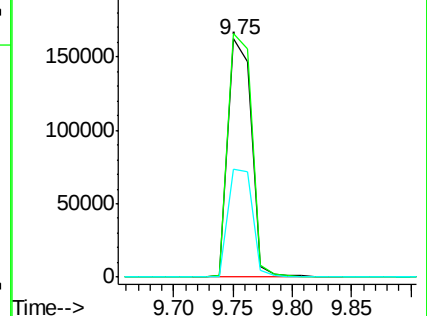
160 45.1 36.9 55.3

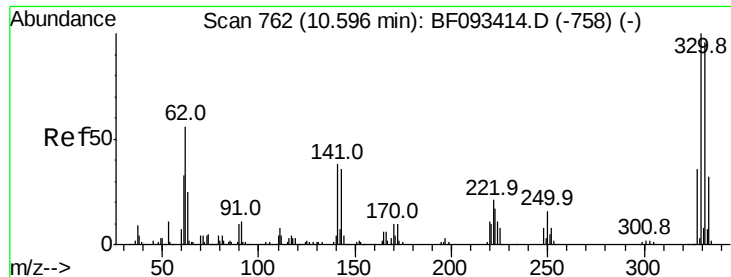


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

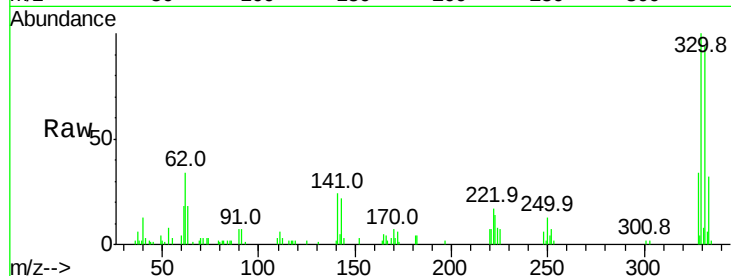




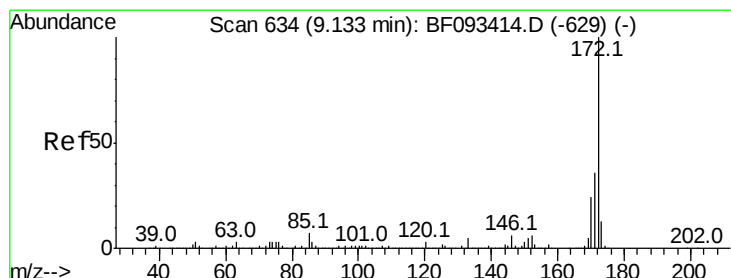
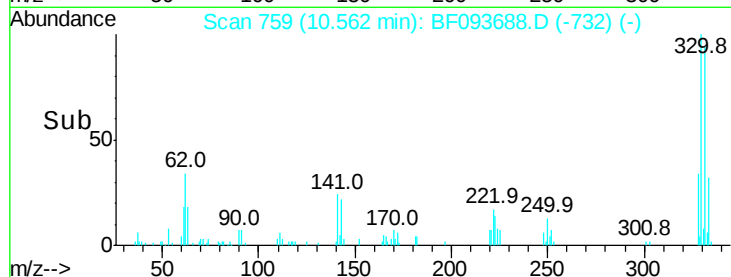
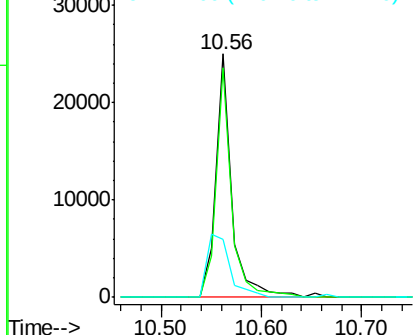
#41  
 2,4,6-Tribromophenol  
 Concen: 19.20 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093688.D  
 Acq: 16 Mar 2017 00:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-EE9-ESW

Tot Ion:330 Resp: 27601  
 Ion Ratio Lower Upper  
 330 100  
 332 91.5 77.4 116.2  
 141 37.2 34.1 51.1

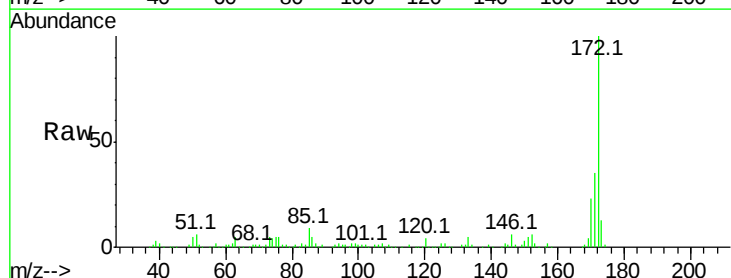


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

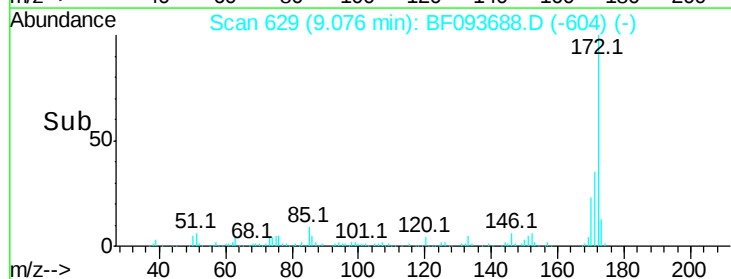
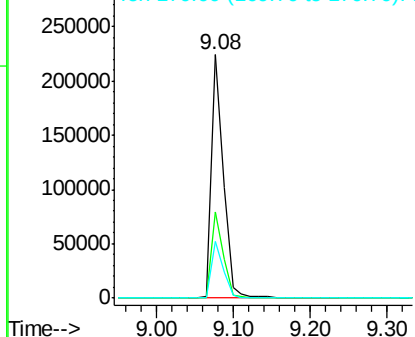


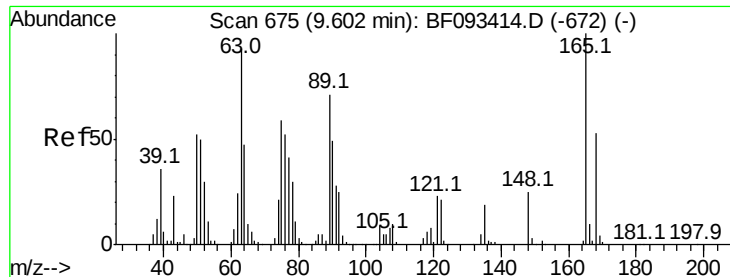
#44  
 2-Fluorobiphenyl  
 Concen: 20.11 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093688.D  
 Acq: 16 Mar 2017 00:33

Tgt Ion:172 Resp: 238598  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.4 44.0  
 170 23.5 20.2 30.4



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: 8.73 ng

RT: 9.75 min Scan# 688

Delta R.T. 0.18 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampled :

E2-EE9-ESW

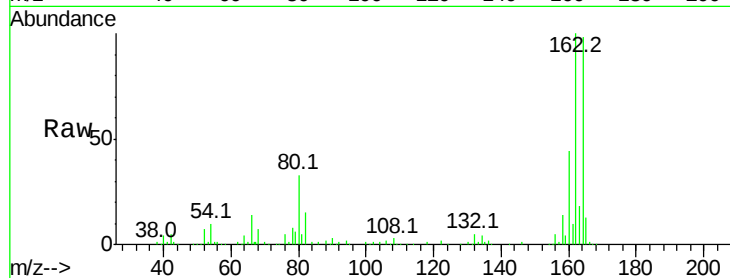
Tot Ion:165 Resp: 28029

Ion Ratio Lower Upper

165 100

63 2.8 36.2 54.4#

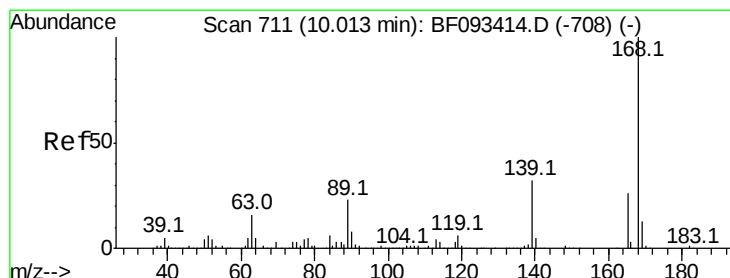
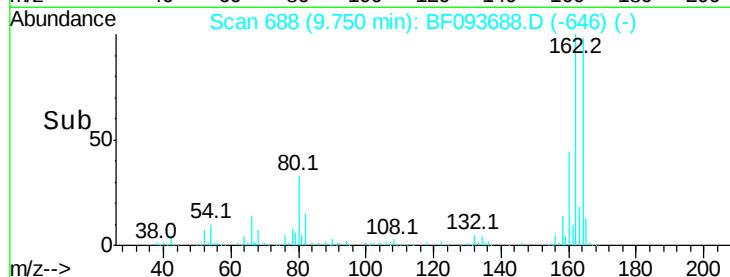
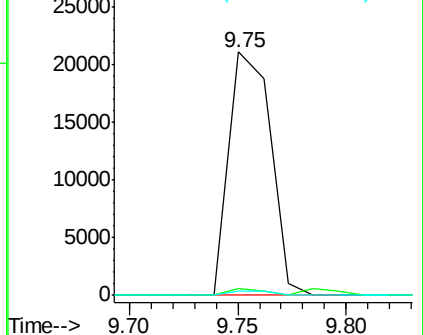
89 1.7 40.2 60.4#



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: 7.11 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.23 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Tgt Ion:165 Resp: 28029

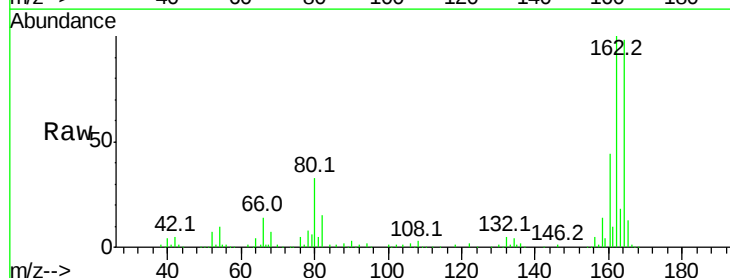
Ion Ratio Lower Upper

165 100

63 2.8 40.2 60.4#

89 1.7 62.5 93.7#

182 0.0 1.8 2.8#

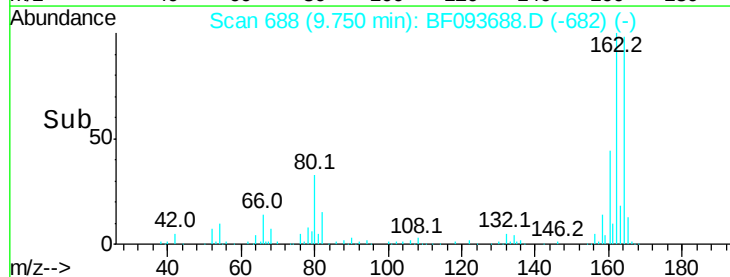
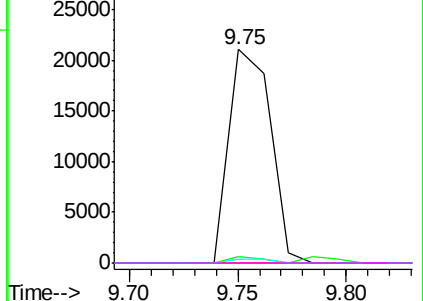


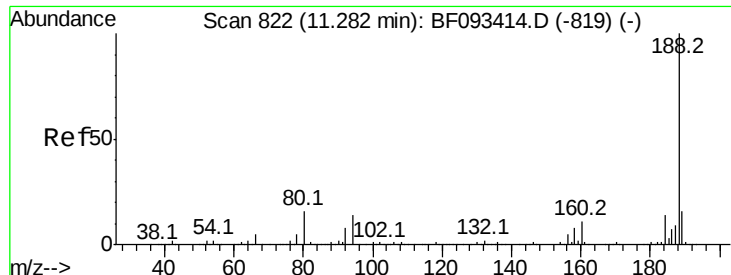
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

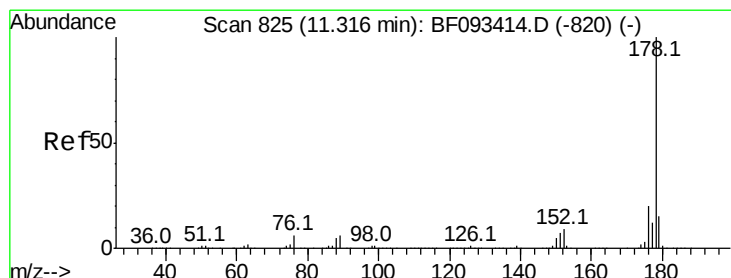
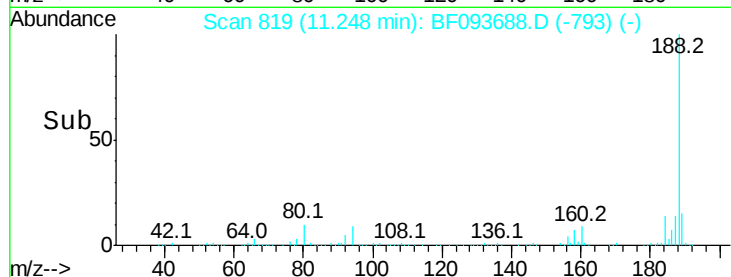
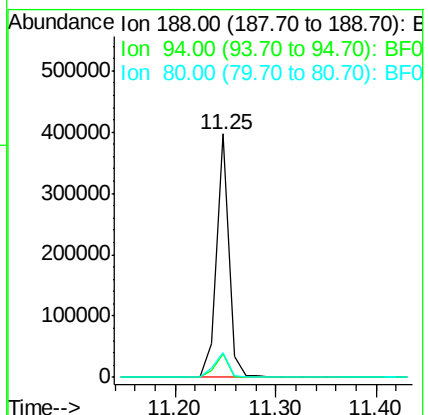
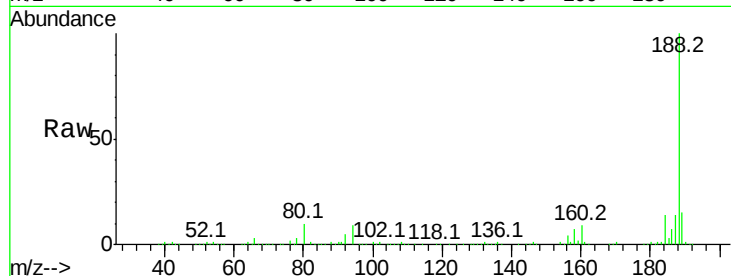




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

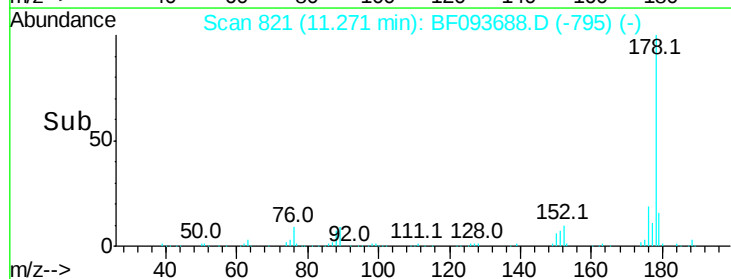
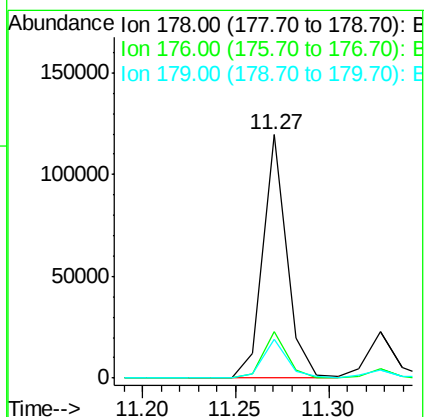
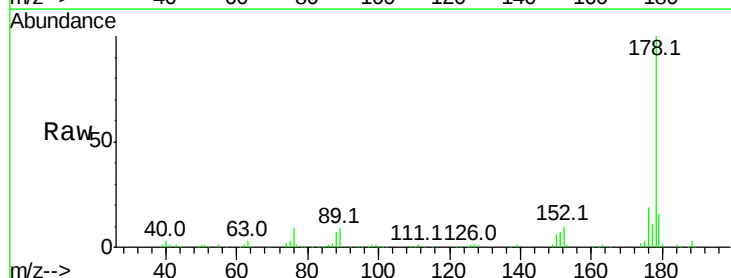
Instrument :  
BNA\_F  
ClientSampleId :  
E2-EE9-ESW

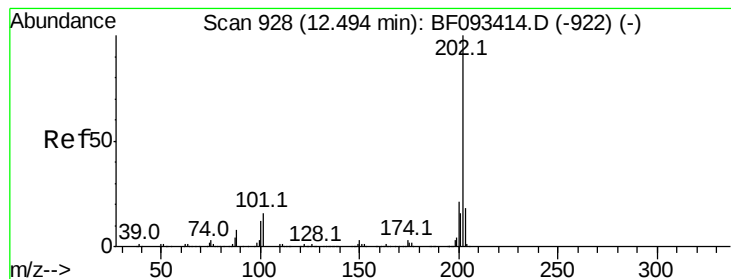
Tot Ion:188 Resp: 339644  
Ion Ratio Lower Upper  
188 100  
94 9.4 10.0 15.0#  
80 10.1 11.2 16.8#



#70  
Phenanthrene  
Concen: 5.46 ng  
RT: 11.27 min Scan# 821  
Delta R.T. -0.00 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Tgt Ion:178 Resp: 105834  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.6 25.0  
179 15.7 12.8 19.2





#74

Fluoranthene

Concen: 7.18 ng

RT: 12.46 min Scan# 925

Delta R.T. -0.00 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

E2-EE9-ESW

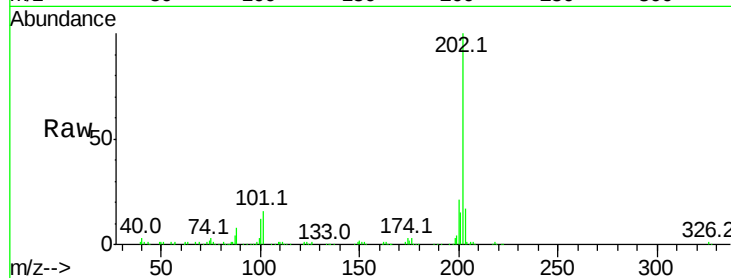
Tot Ion:202 Resp: 134399

Ion Ratio Lower Upper

202 100

101 15.7 0.0 34.6

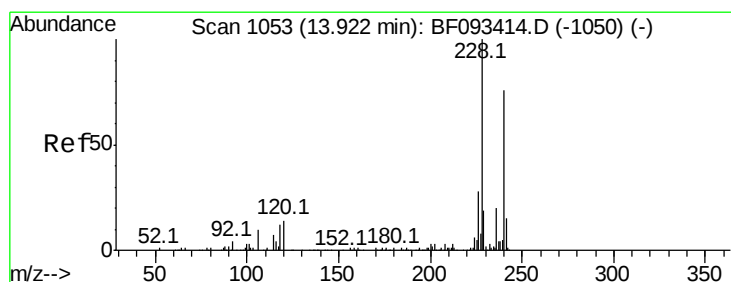
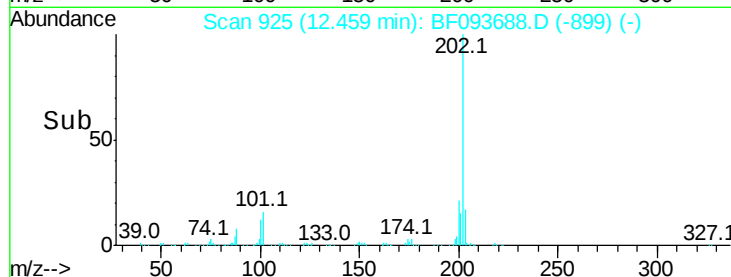
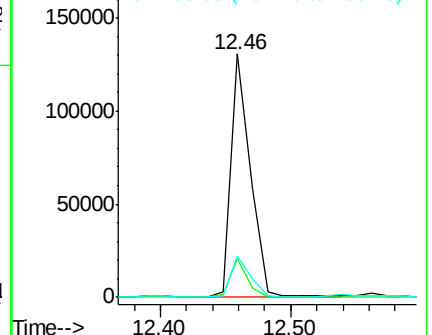
203 16.8 0.0 38.7



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: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

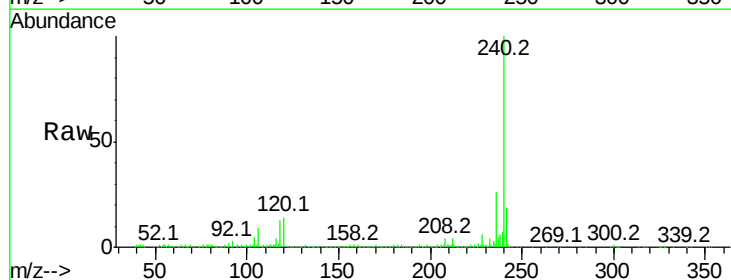
Tgt Ion:240 Resp: 352282

Ion Ratio Lower Upper

240 100

120 14.1 12.9 19.3

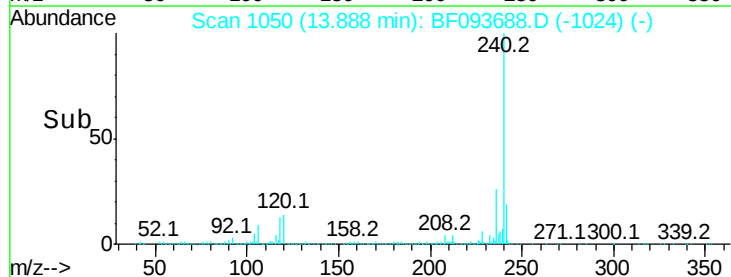
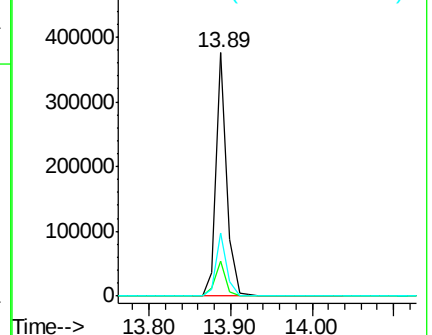
236 25.8 20.9 31.3

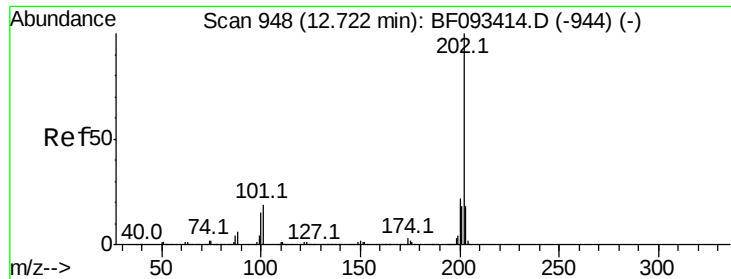


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

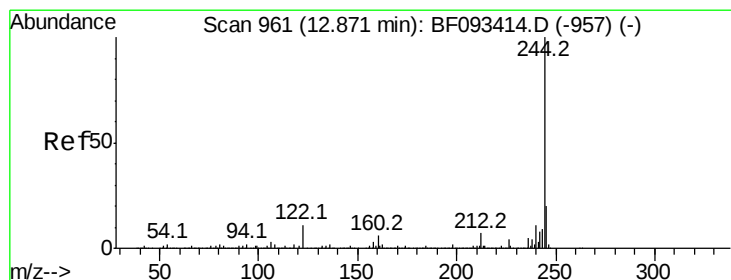
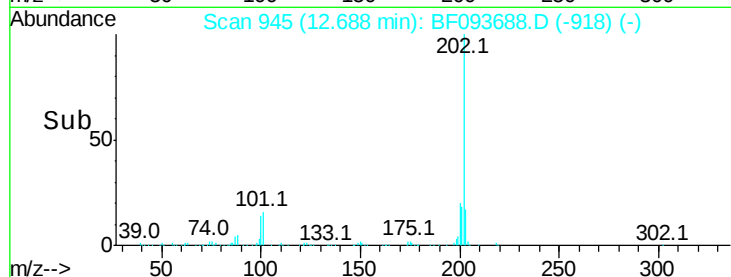
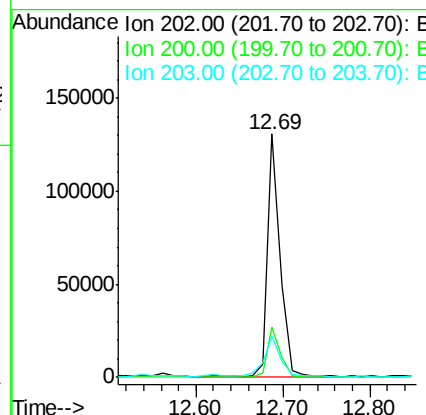
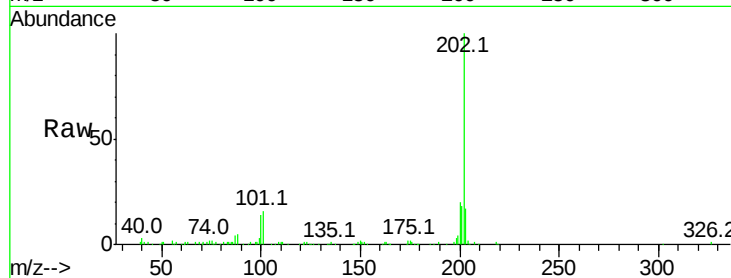




#77  
Pvrene  
Concen: 5.32 ng  
RT: 12.69 min Scan# 945  
Delta R.T. 0.01 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

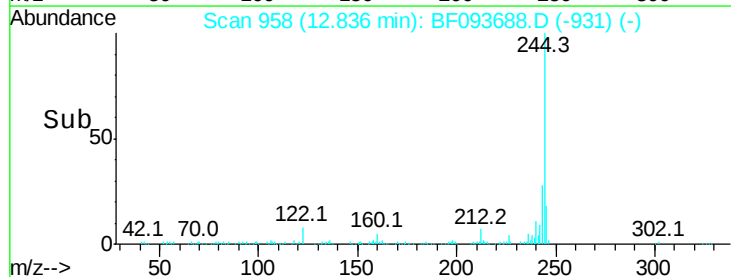
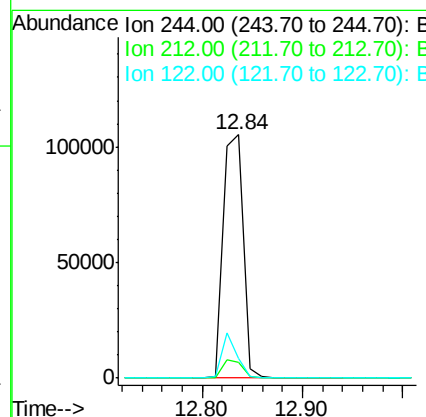
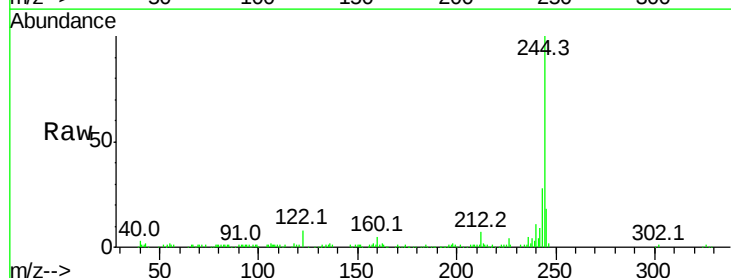
Instrument :  
BNA\_F  
ClientSampleId :  
E2-EE9-ESW

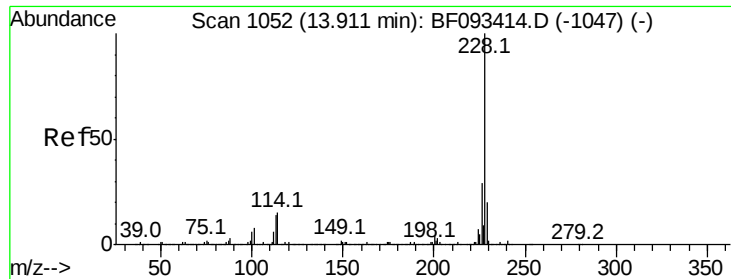
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.4  | 17.7  | 26.5  |
| 203     | 17.1  | 14.7  | 22.1  |



#78  
Terphenyl-d14  
Concen: 10.79 ng  
RT: 12.84 min Scan# 958  
Delta R.T. 0.01 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 6.2   | 9.2   |
| 122     | 8.1   | 11.4  | 17.2  |

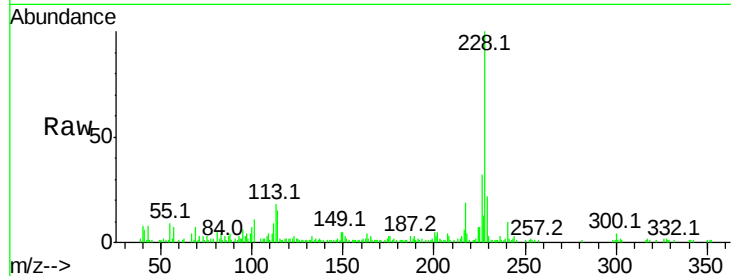




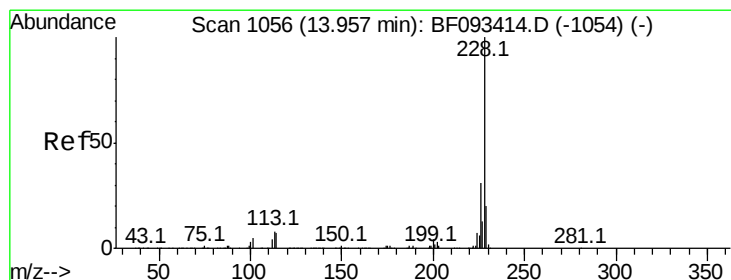
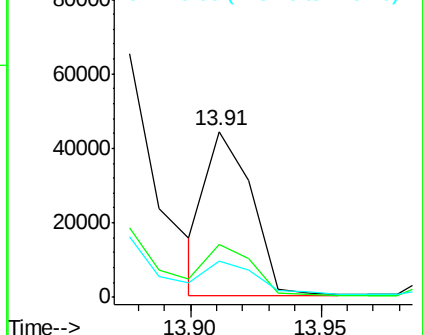
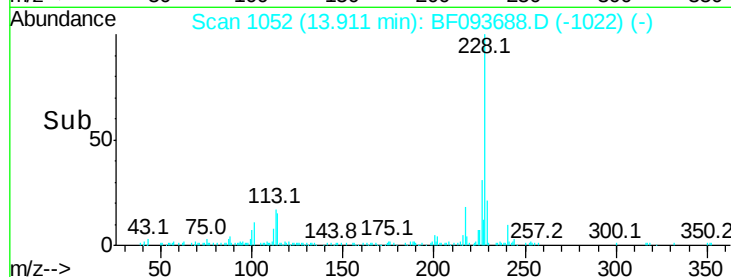
#80  
Benzo(a)anthracene  
Concen: 2.56 ng  
RT: 13.91 min Scan# 1052  
Delta R.T. 0.05 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :  
E2-EE9-ESW

Tot Ion:228 Resp: 53220  
Ion Ratio Lower Upper  
228 100  
226 31.9 22.4 33.6  
229 22.1 16.2 24.4

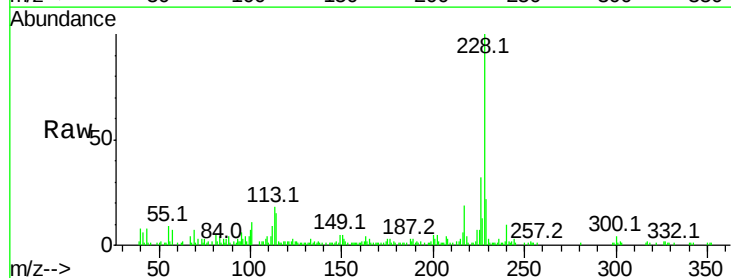


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

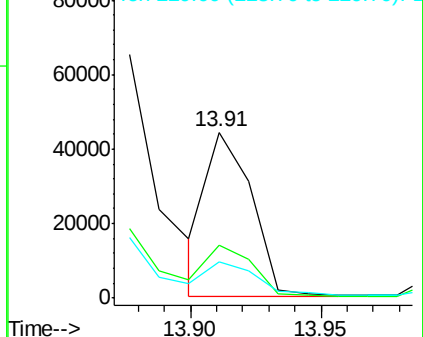
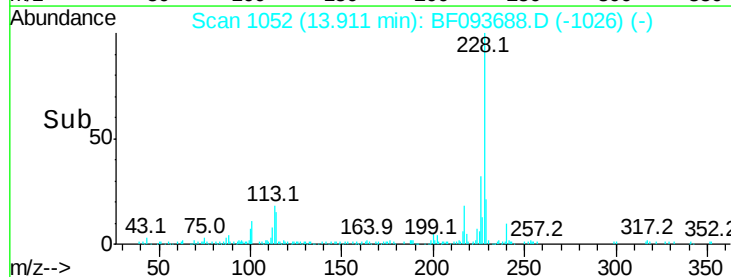


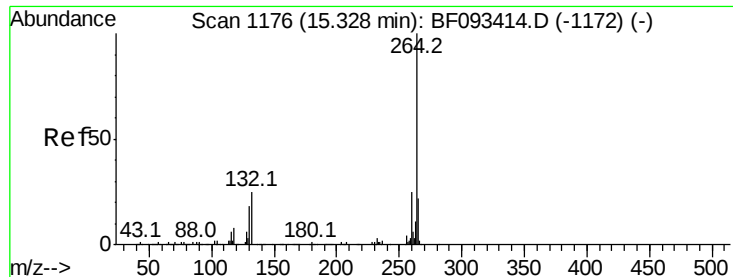
#82  
Chrysene  
Concen: 2.76 ng  
RT: 13.91 min Scan# 1052  
Delta R.T. -0.00 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Tgt Ion:228 Resp: 53191  
Ion Ratio Lower Upper  
228 100  
226 31.9 25.4 38.0  
229 22.1 16.2 24.2



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

Pervlene-d12

Concen: 20.00 ng

RT: 15.29 min Scan# 1173

Delta R.T. 0.01 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

E2-EE9-ESW

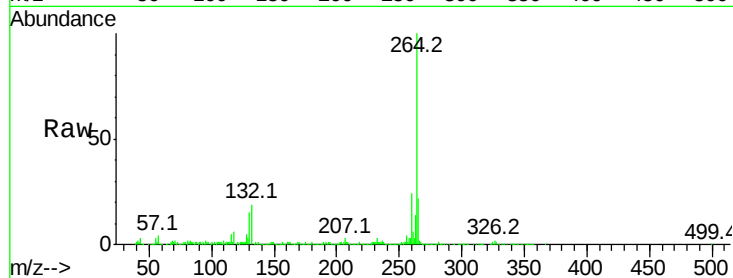
Tot Ion:264 Resp: 295992

Ion Ratio Lower Upper

264 100

260 24.1 19.2 28.8

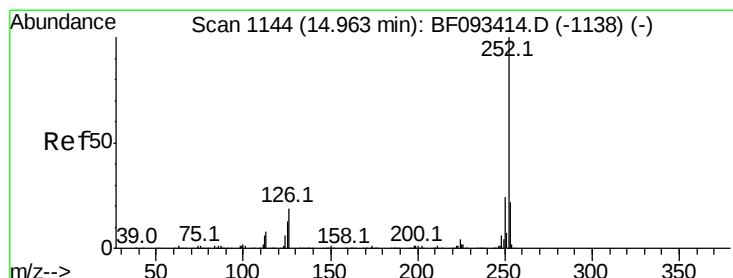
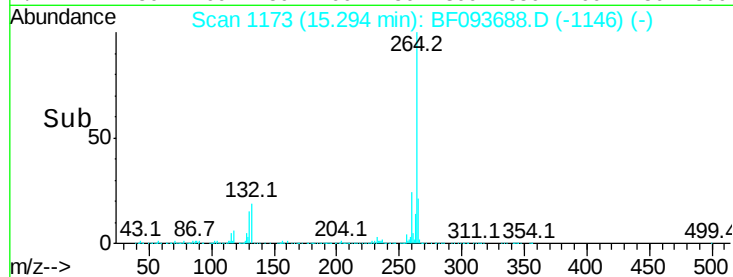
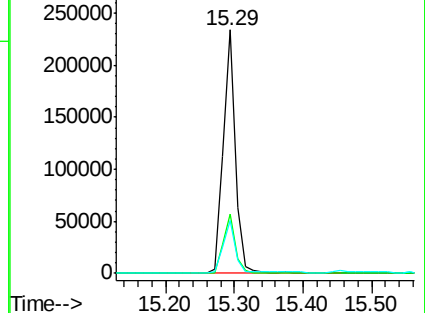
265 21.7 17.4 26.0



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: 4.99 ng

RT: 14.91 min Scan# 1139

Delta R.T. 0.01 min

Lab File: BF093688.D

Acq: 16 Mar 2017 00:33

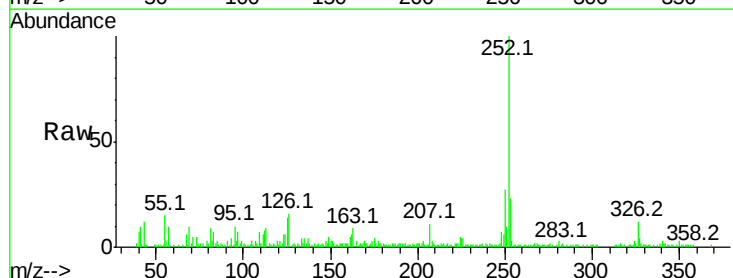
Tgt Ion:252 Resp: 89985

Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.4

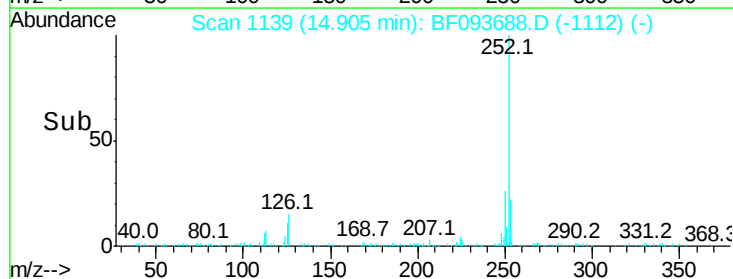
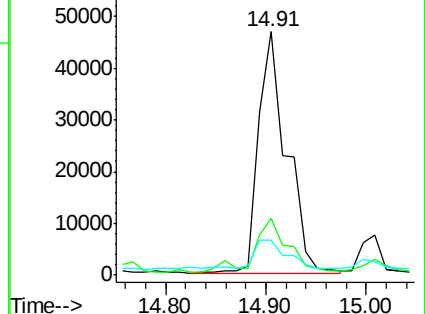
125 14.2 9.8 14.6

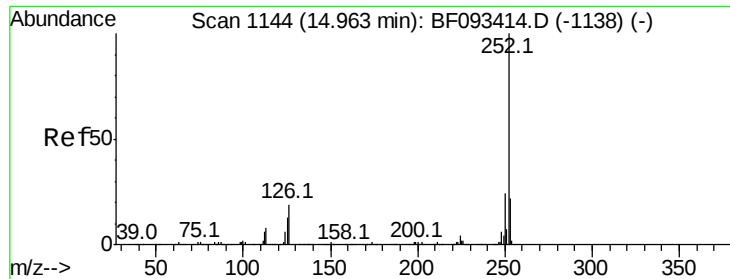


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

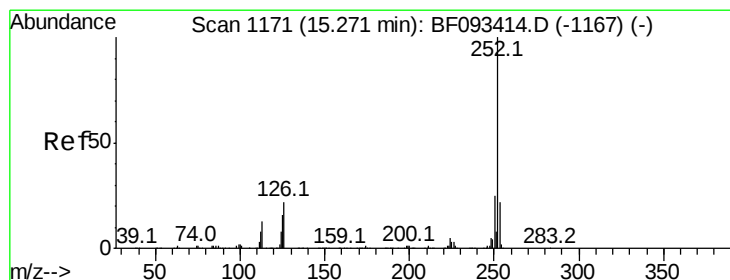
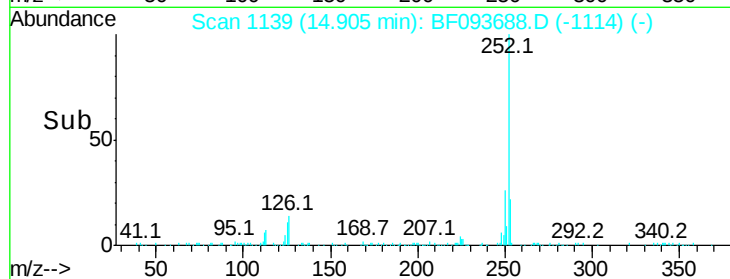
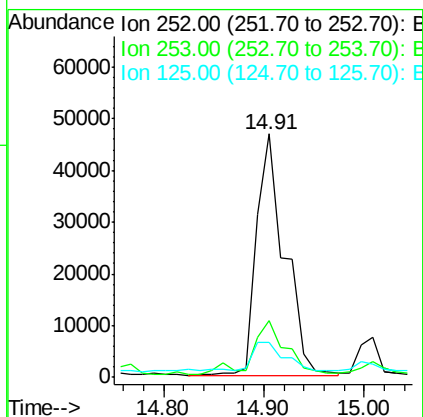
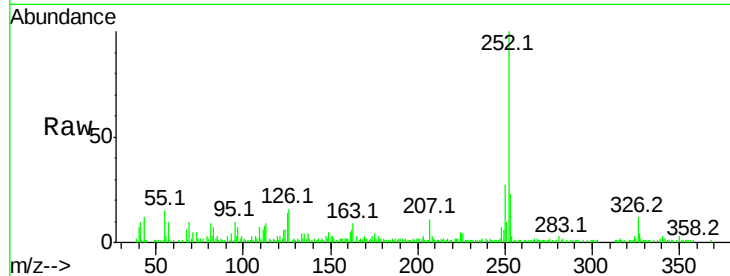




#88  
Benzo(k)fluoranthene  
Concen: 5.18 ng  
RT: 14.91 min Scan# 1139  
Delta R.T. -0.01 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :  
E2-EE9-ESW

Tot Ion:252 Resp: 89985  
Ion Ratio Lower Upper  
252 100  
253 23.4 18.5 27.7  
125 14.2 8.9 13.3#



#89  
Benzo(a)pyrene  
Concen: 2.88 ng  
RT: 15.24 min Scan# 1168  
Delta R.T. 0.01 min  
Lab File: BF093688.D  
Acq: 16 Mar 2017 00:33

Tgt Ion:252 Resp: 47506  
Ion Ratio Lower Upper  
252 100  
253 28.0 18.2 27.2#  
125 18.8 10.0 15.0#

