

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097178.D  
 Acq On : 29 Jul 2017 2:33  
 Operator : SJ/JU  
 Sample : I4456-13  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

Quant Time: Jul 29 03:13:39 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

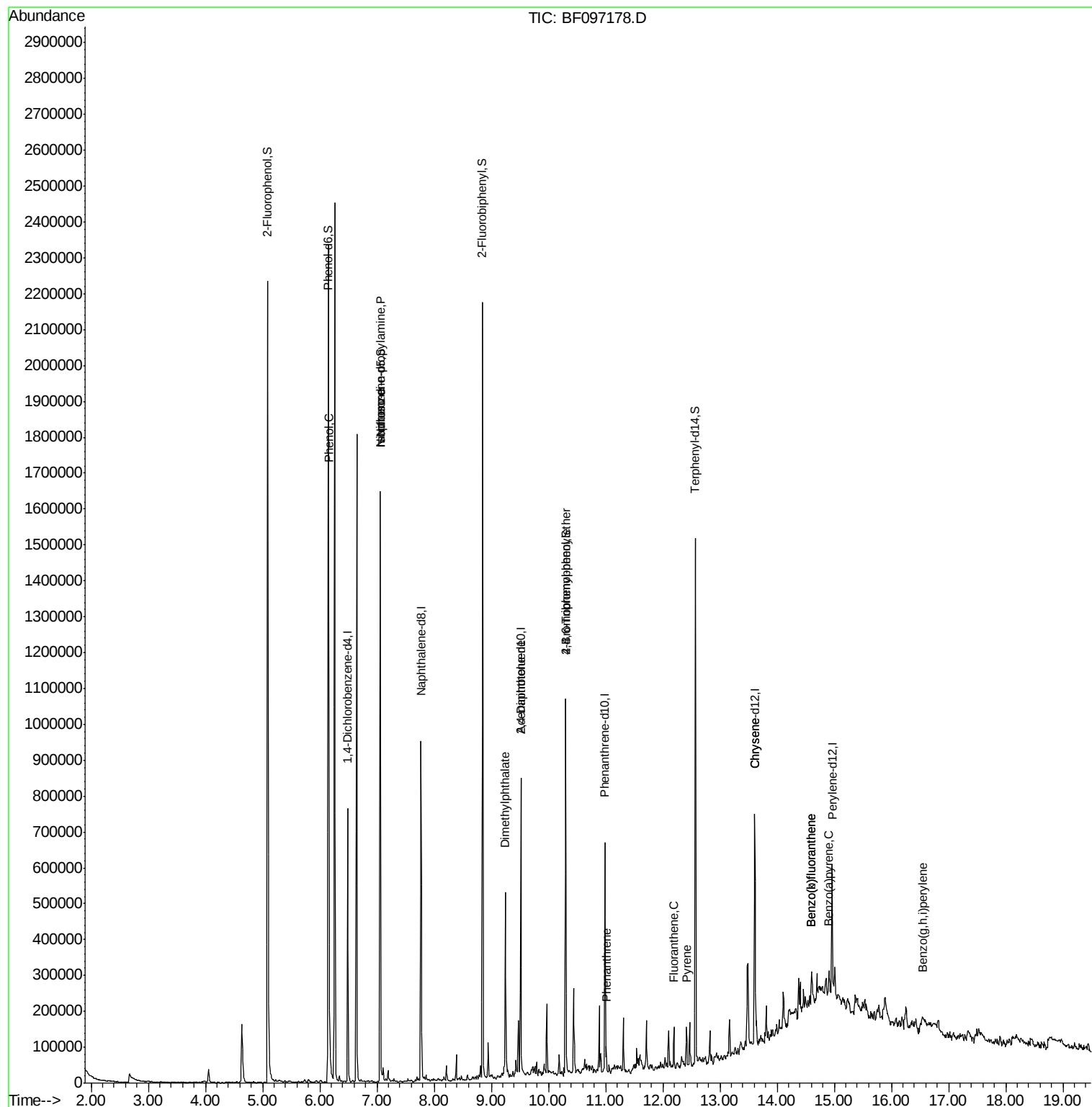
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.49  | 152  | 102711   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8             | 7.77  | 136  | 393869   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.52  | 164  | 160190   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 10.99 | 188  | 211188   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12               | 13.61 | 240  | 200005   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 14.96 | 264  | 144169   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.09  | 112  | 715288   | 104.98 | ng    | -0.01     |
| 7) Phenol-d6                   | 6.15  | 99   | 859576   | 110.51 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.06  | 82   | 501459   | 74.69  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 111781   | 88.32  | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 8.85  | 172  | 705675   | 74.76  | ng    | -0.02     |
| 78) Terphenyl-d14              | 12.57 | 244  | 463582   | 47.26  | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 6.16  | 94   | 20017    | 2.17   | ng    | Qvalue 81 |
| 19) n-Nitroso-di-n-propylamine | 7.06  | 70   | 66629    | 13.01  | ng    | # 87      |
| 25) Isophorone                 | 7.06  | 82   | 495494   | 37.68  | ng    | # 67      |
| 49) Dimethylphthalate          | 9.25  | 163  | 183365   | 15.07  | ng    | 98        |
| 56) 2,4-Dinitrotoluene         | 9.51  | 165  | 20199    | 6.81   | ng    | # 34      |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248  | 7123     | 3.38   | ng    | # 1       |
| 70) Phenanthrene               | 11.01 | 178  | 23376    | 2.07   | ng    | 98        |
| 74) Fluoranthene               | 12.19 | 202  | 40832    | 3.68   | ng    | 98        |
| 77) Pyrene                     | 12.42 | 202  | 38601    | 2.36   | ng    | 97        |
| 82) Chrysene                   | 13.60 | 228  | 25695    | 2.03   | ng    | 96        |
| 87) Benzo(b)fluoranthene       | 14.60 | 252  | 39116    | 4.51   | ng    | # 83      |
| 88) Benzo(k)fluoranthene       | 14.60 | 252  | 39116    | 4.74   | ng    | # 87      |
| 89) Benzo(a)pyrene             | 14.91 | 252  | 17712    | 2.23   | ng    | # 82      |
| 91) Benzo(a,h,i)perylene       | 16.54 | 276  | 14117    | 2.07   | ng    | # 83      |

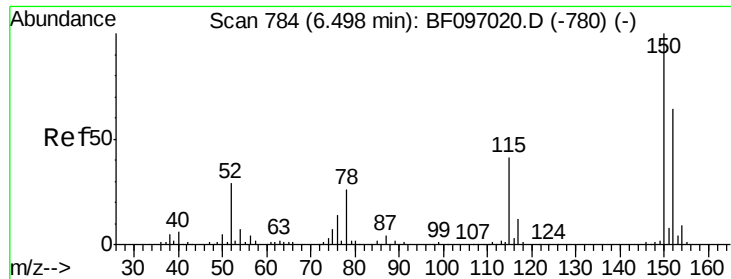
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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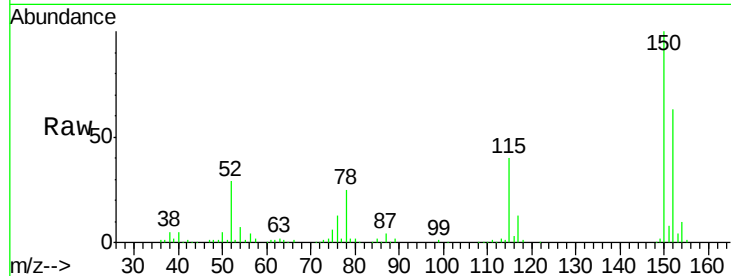


#1

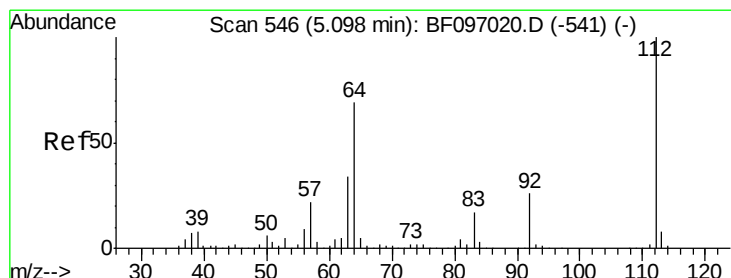
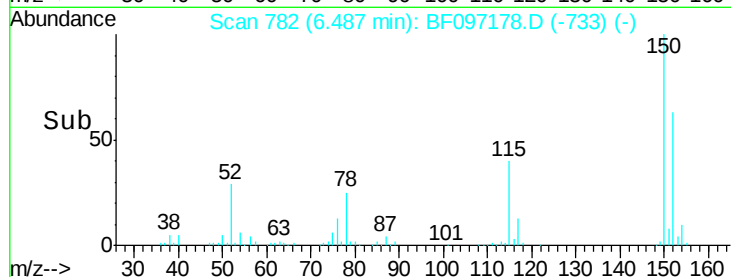
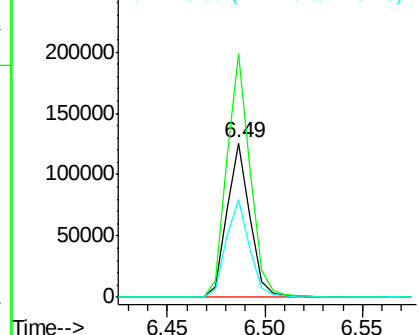
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Instrument :  
BNA\_F  
ClientSampleId :  
TP-18D24

Tot Ion:152 Resp: 102711  
Ion Ratio Lower Upper  
152 100  
150 157.6 126.2 189.2  
115 63.1 52.2 78.2



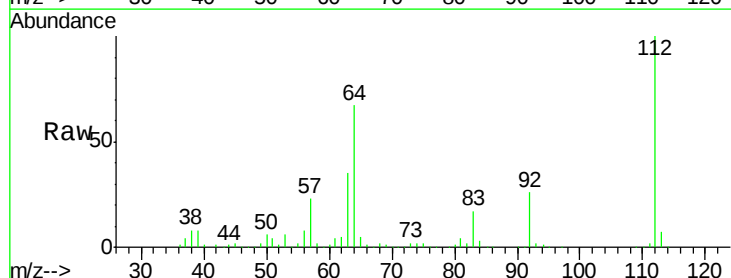
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



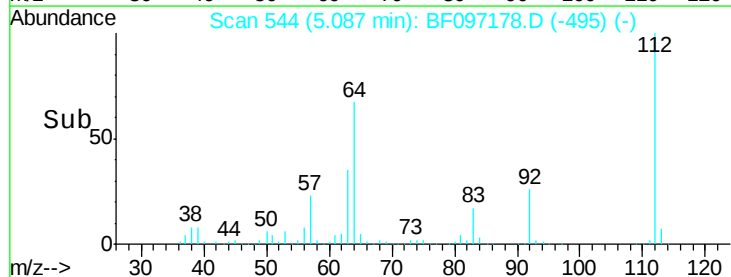
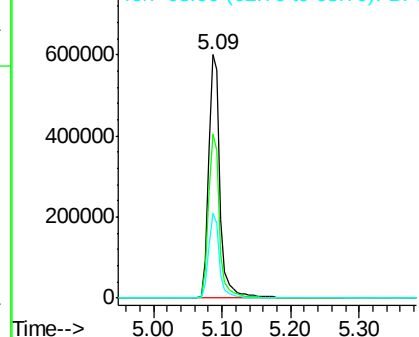
#5

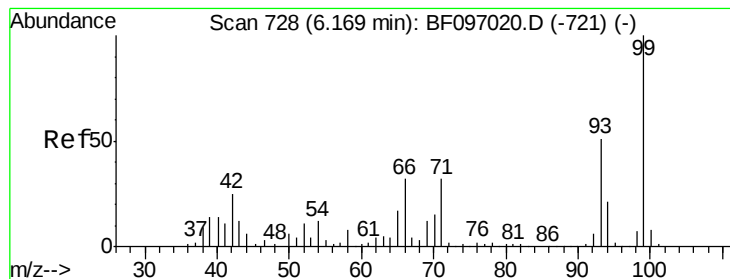
2-Fluorophenol  
Concen: 104.98 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Tgt Ion:112 Resp: 715288  
Ion Ratio Lower Upper  
112 100  
64 67.3 46.0 69.0  
63 34.9 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: 110.51 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

ClientSampled :

TP-18D24

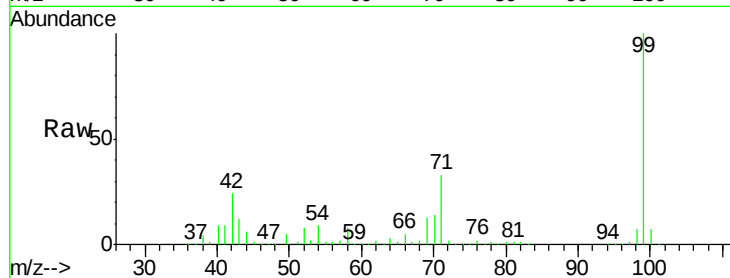
Tot Ion: 99 Resp: 859576

Ion Ratio Lower Upper

99 100

42 24.5 13.5 20.3#

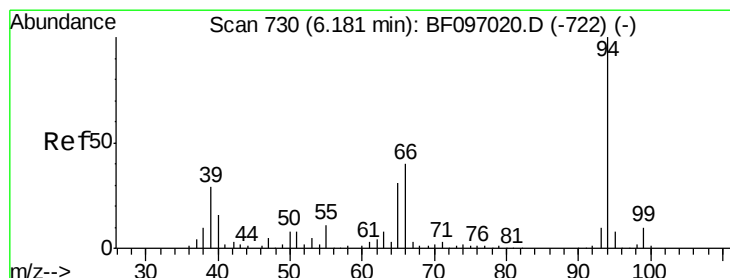
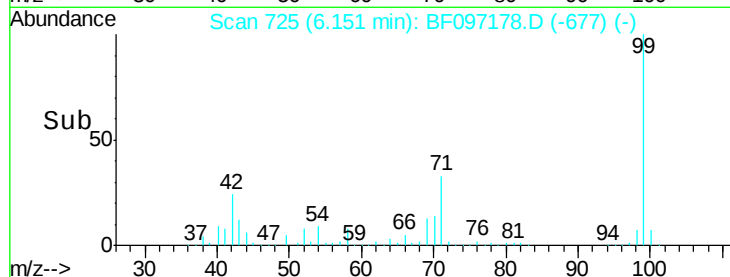
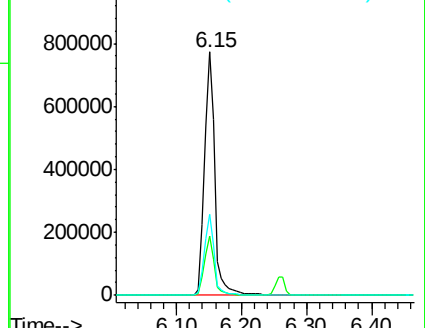
71 33.0 24.5 36.7



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



#10

Phenol

Concen: 2.17 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

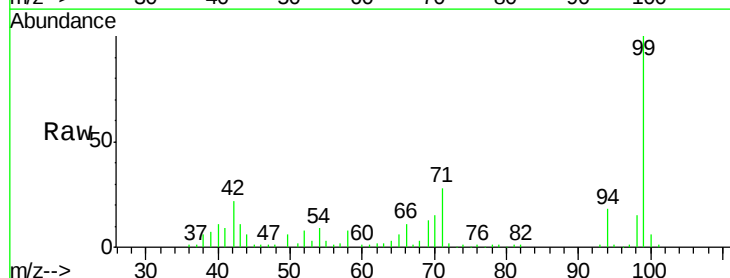
Tgt Ion: 94 Resp: 20017

Ion Ratio Lower Upper

94 100

65 35.0 9.9 49.9

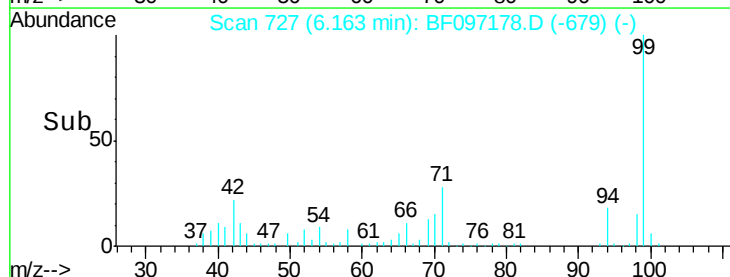
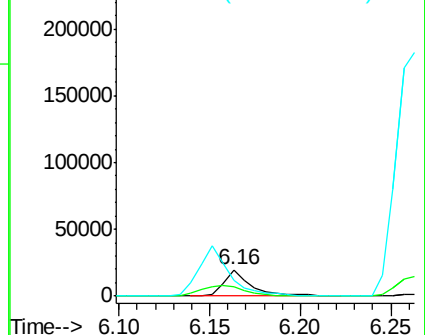
66 59.4 23.1 63.1

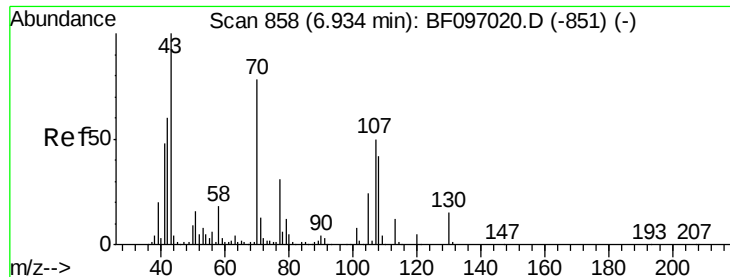


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

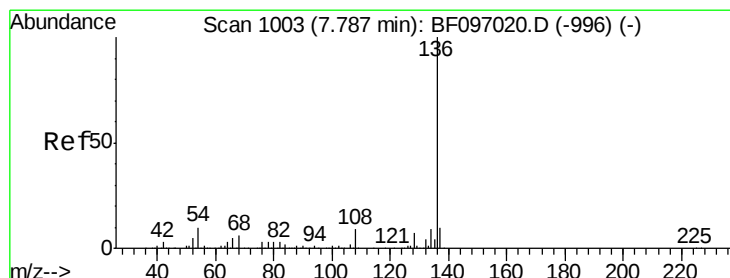
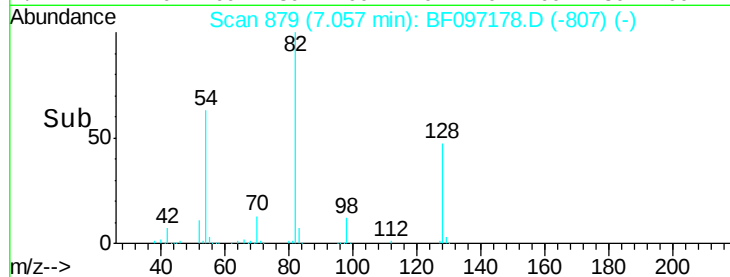
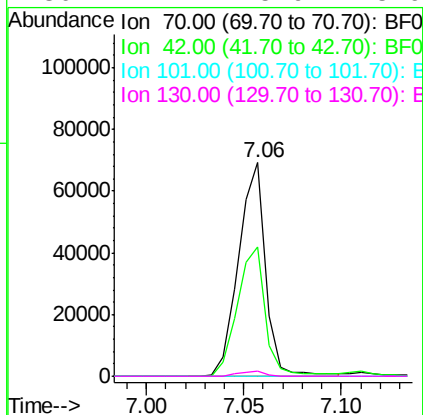
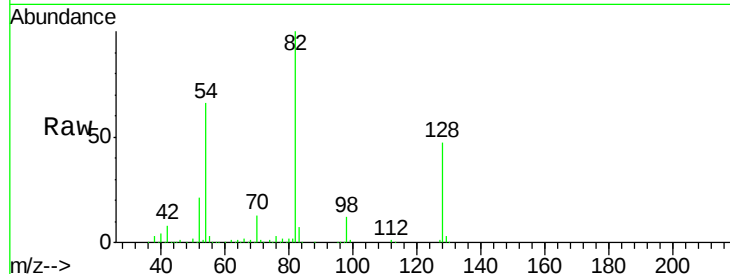




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.01 ng  
RT: 7.06 min Scan# 879  
Delta R.T. 0.12 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

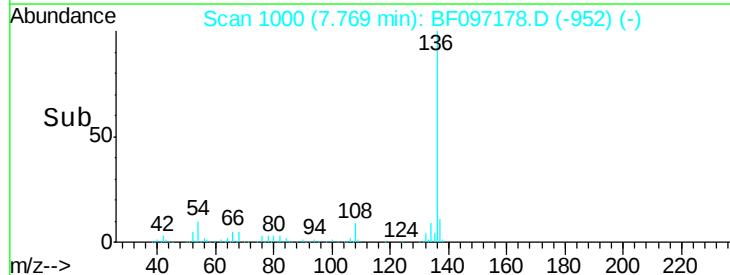
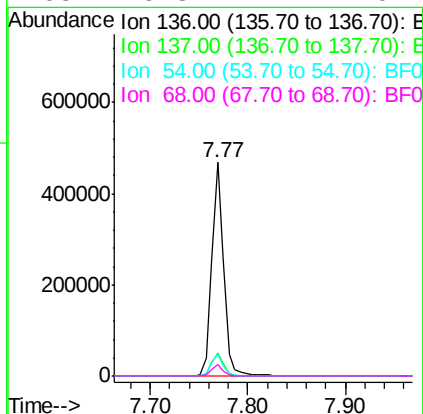
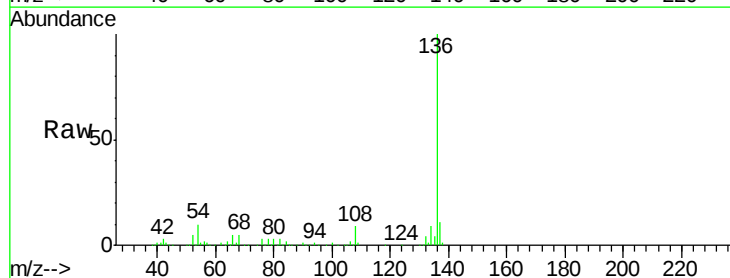
Instrument :  
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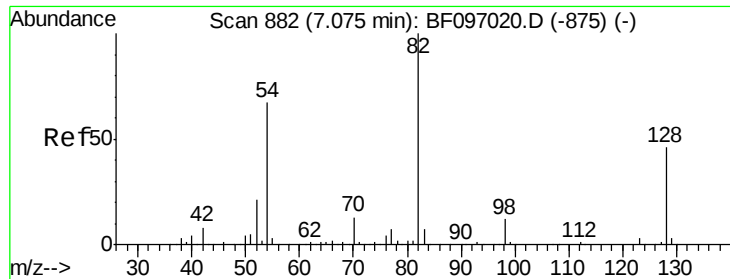
Tot Ion: 70 Resp: 66629  
Ion Ratio Lower Upper  
70 100  
42 60.7 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.4 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.77 min Scan# 1000  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Tgt Ion:136 Resp: 393869  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 10.2 4.9 7.3#  
68 5.3 4.1 6.1

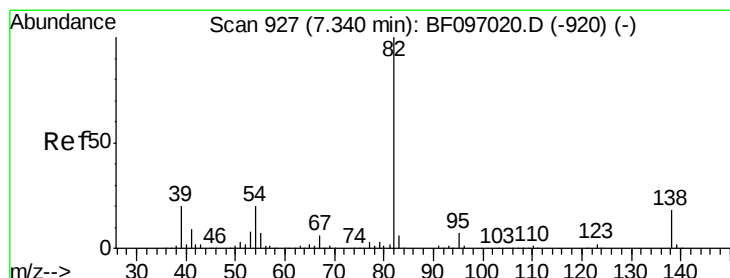
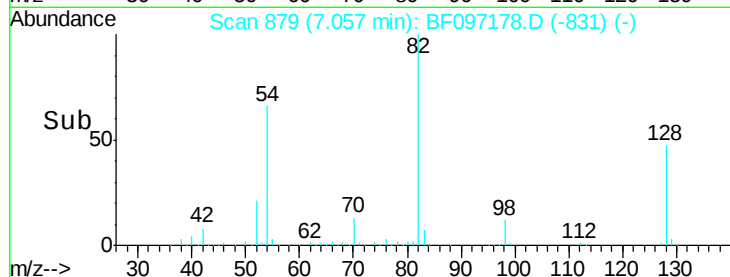
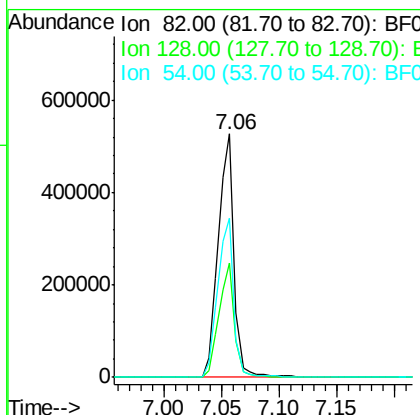
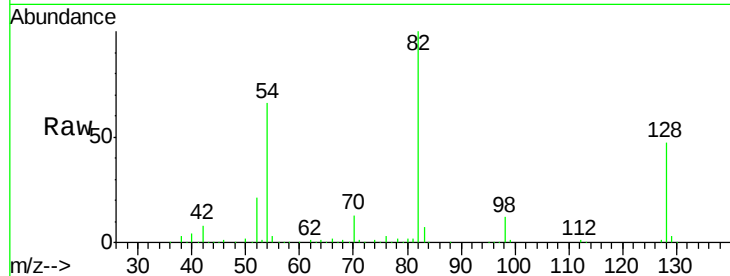




#23  
 Nitrobenzene-d5  
 Concen: 74.69 ng  
 RT: 7.06 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

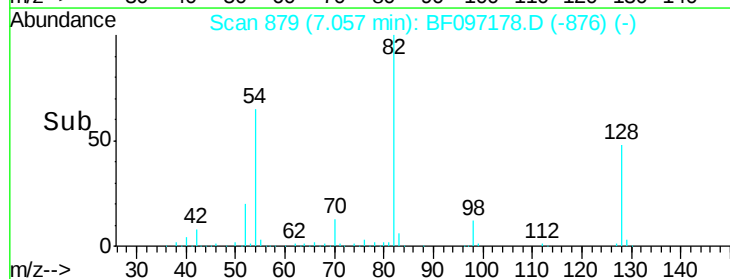
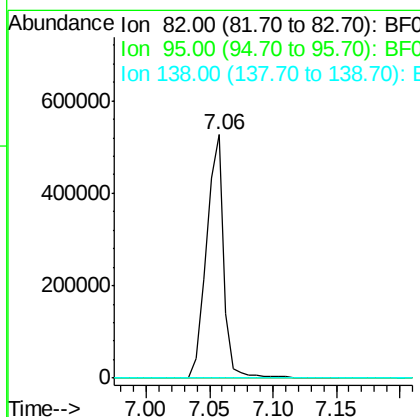
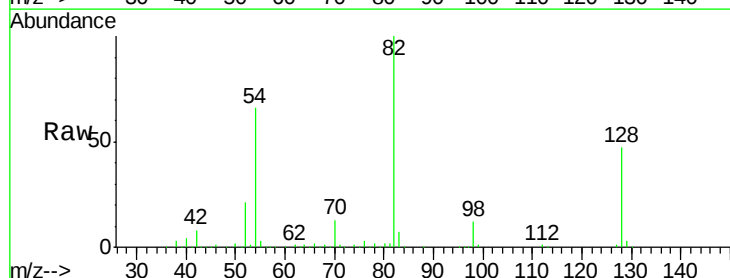
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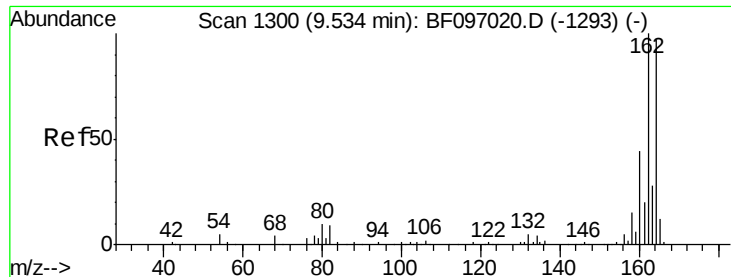
| Tot Ion   | 82    | Resp  | 501459 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.9  | 34.0  | 51.0   |
| 54        | 65.6  | 42.2  | 63.2#  |



#25  
 Isophorone  
 Concen: 37.68 ng  
 RT: 7.06 min Scan# 879  
 Delta R.T. -0.28 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

| Tgt Ion   | 82    | Resp  | 495494 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.1   | 5.3   | 7.9#   |
| 138       | 0.0   | 13.1  | 19.7#  |

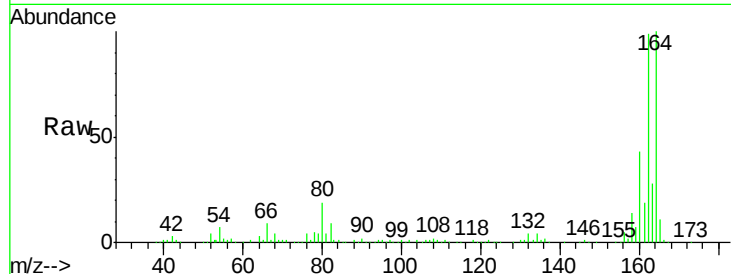




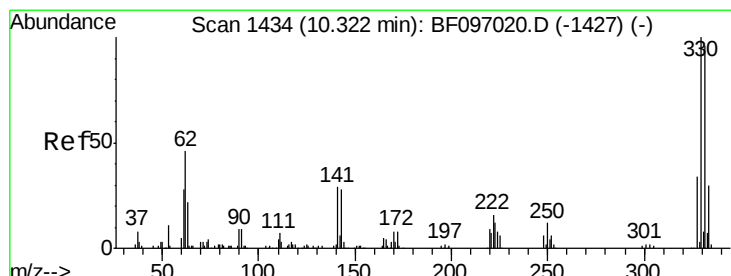
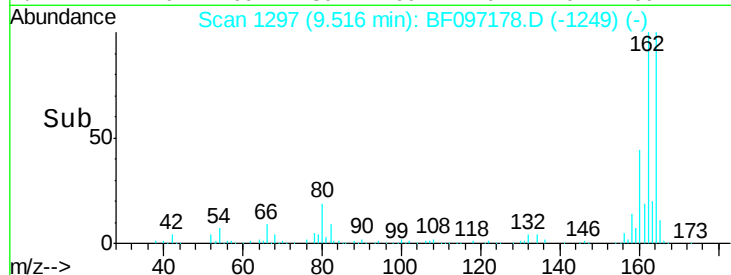
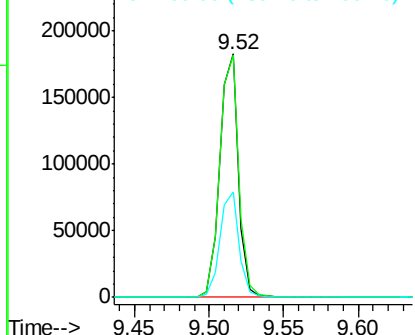
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.52 min Scan# 1297  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
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Instrument :  
BNA\_F  
ClientSampleId :  
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Tot Ion:164 Resp: 160190  
Ion Ratio Lower Upper  
164 100  
162 99.3 82.6 123.8  
160 43.5 36.2 54.2

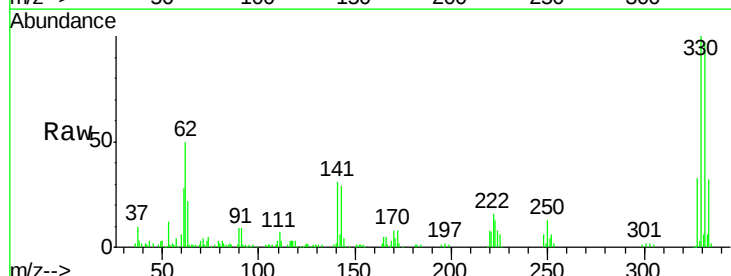


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

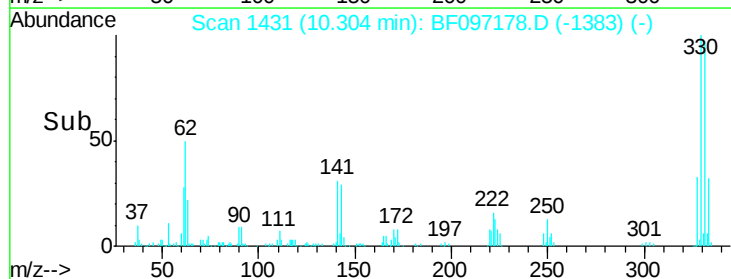
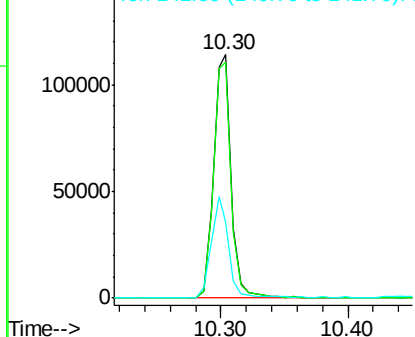


#41  
2,4,6-Tribromophenol  
Concen: 88.32 ng  
RT: 10.30 min Scan# 1431  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Tgt Ion:330 Resp: 111781  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.6 115.0  
141 41.8 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

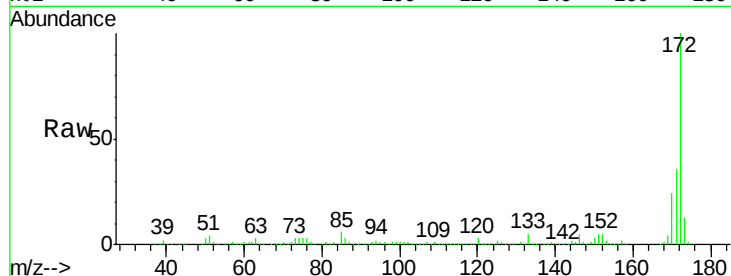




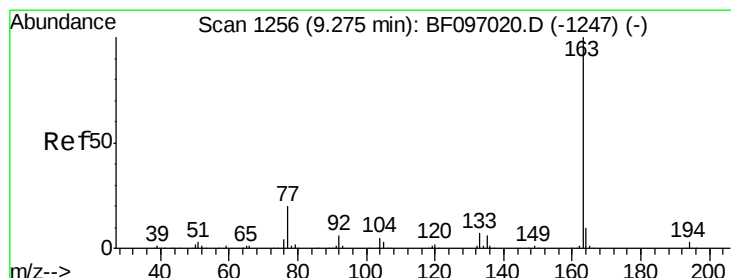
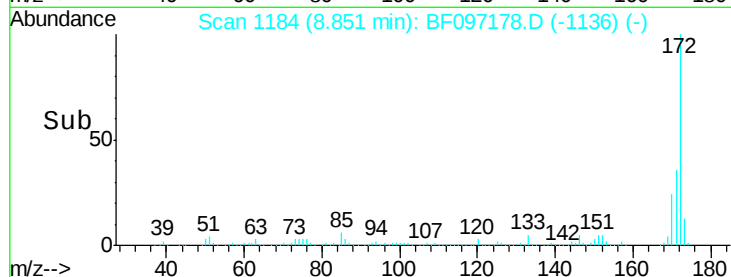
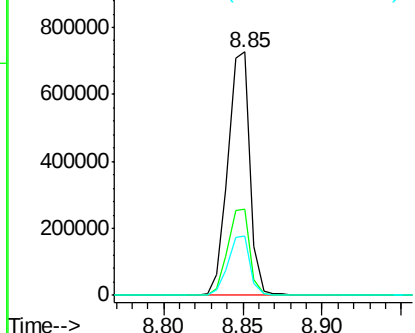
#44  
2-Fluorobiphenyl  
Concen: 74.76 ng  
RT: 8.85 min Scan# 1184  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.6  | 44.4  |
| 170     | 24.1  | 19.8  | 29.8  |

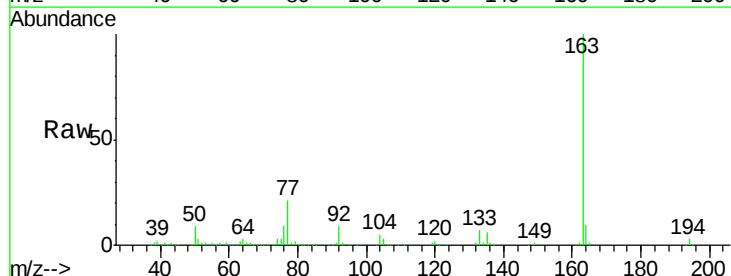


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

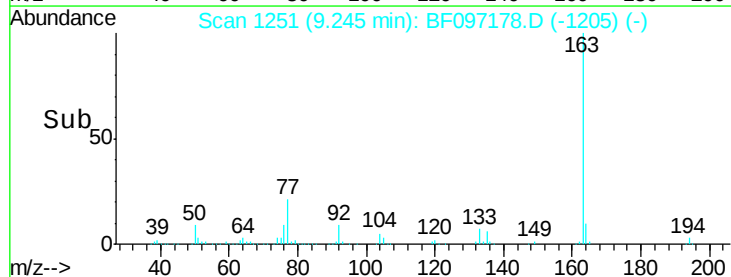
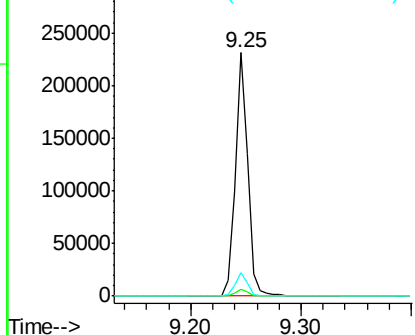


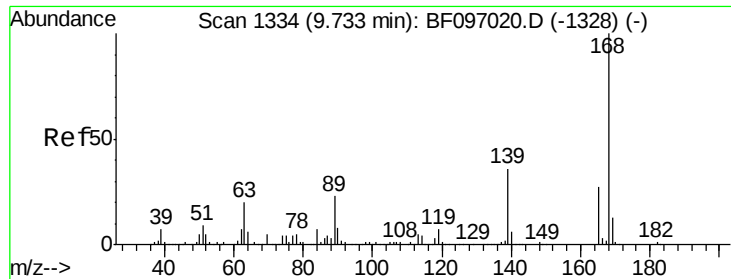
#49  
Dimethylphthalate  
Concen: 15.07 ng  
RT: 9.25 min Scan# 1251  
Delta R.T. -0.03 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 2.8   | 2.6   | 4.0   |
| 164     | 9.7   | 8.4   | 12.6  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

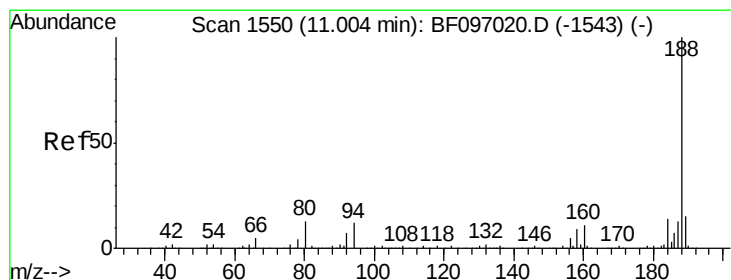
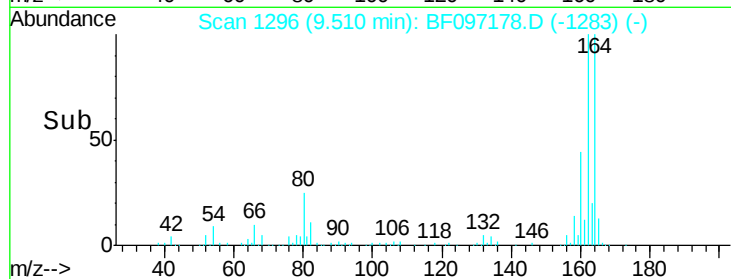
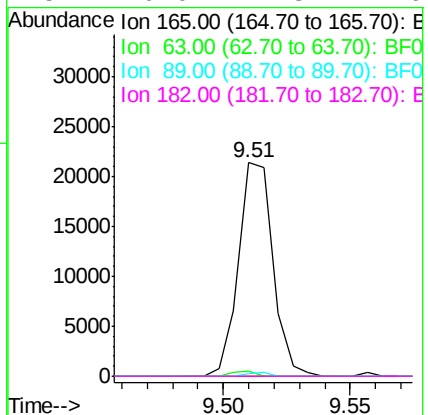
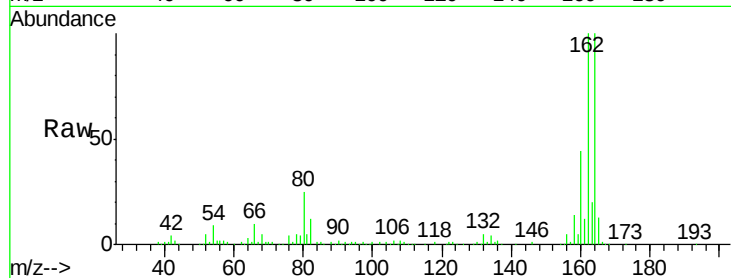




#56  
 2,4-Dinitrotoluene  
 Concen: 6.81 ng  
 RT: 9.51 min Scan# 1296  
 Delta R.T. -0.22 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

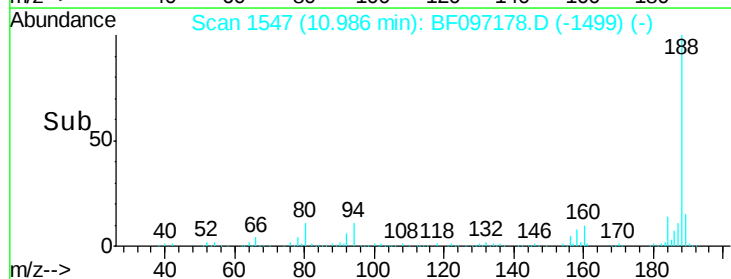
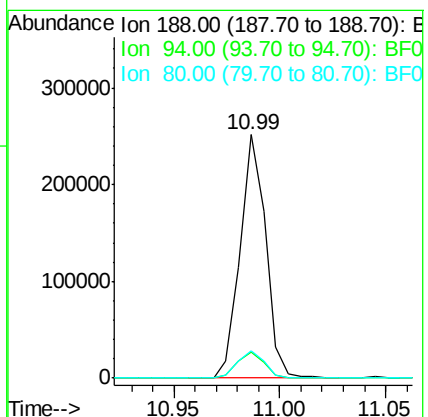
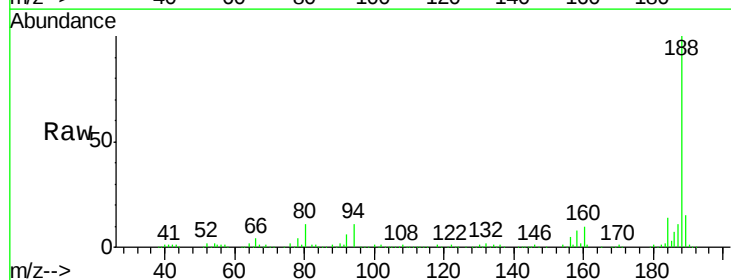
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 20199 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 2.3   | 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: 10.99 min Scan# 1547  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 211188 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.9  | 9.4   | 14.2   |
| 80       | 11.1  | 10.2  | 15.2   |

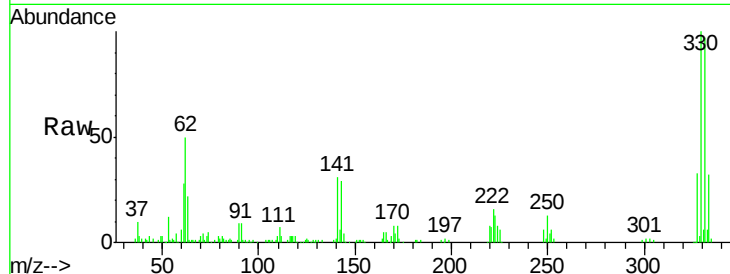




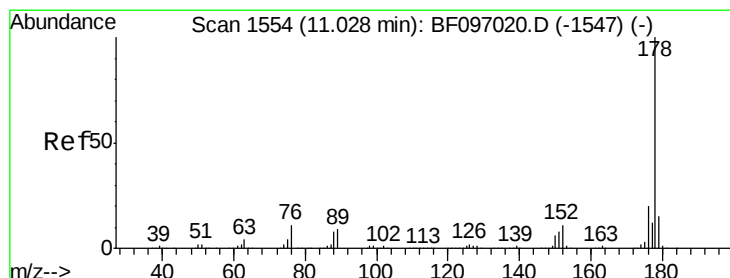
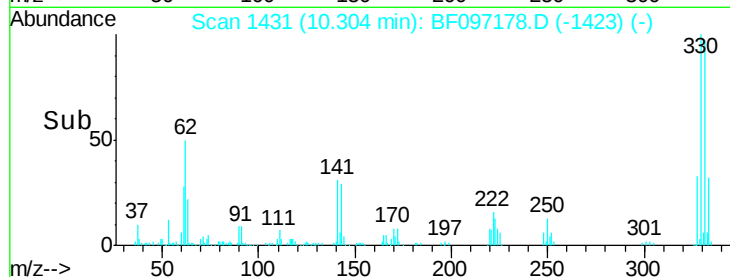
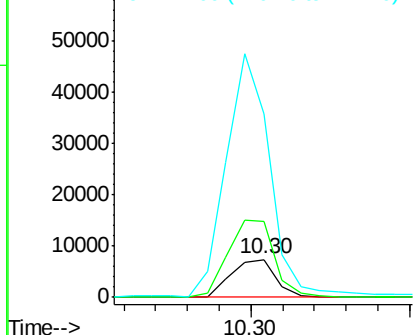
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.38 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.25 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

Tot Ion:248 Resp: 7123  
 Ion Ratio Lower Upper  
 248 100  
 250 200.6 76.8 115.2#  
 141 487.0 68.6 103.0#

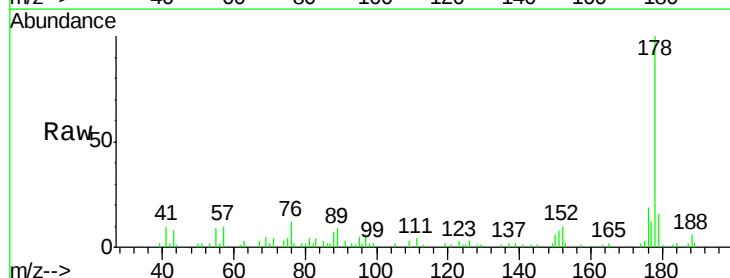


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

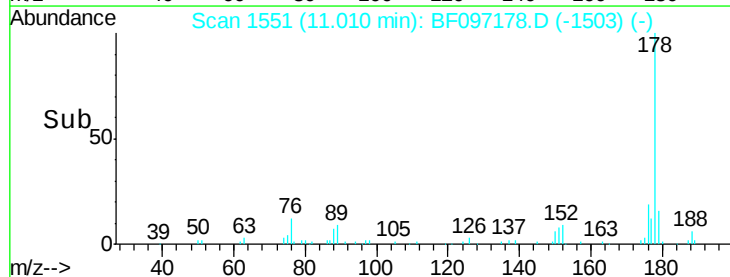
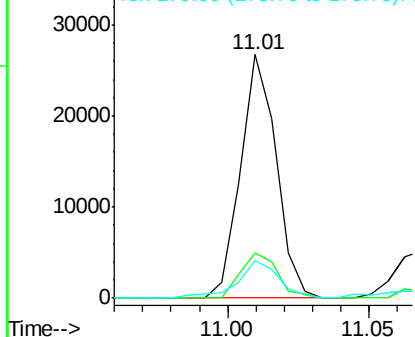


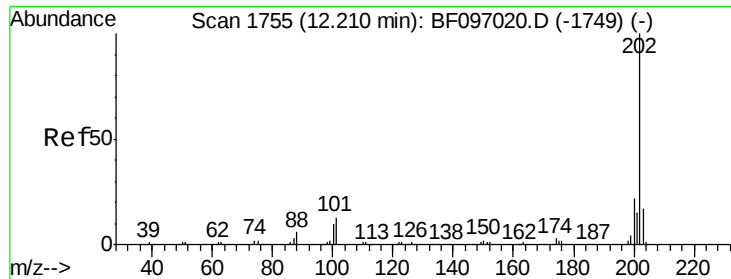
#70  
 Phenanthrene  
 Concen: 2.07 ng  
 RT: 11.01 min Scan# 1551  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

Tgt Ion:178 Resp: 23376  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 16.2 24.4  
 179 15.7 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

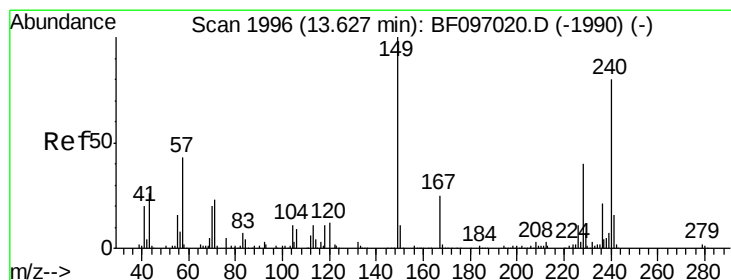
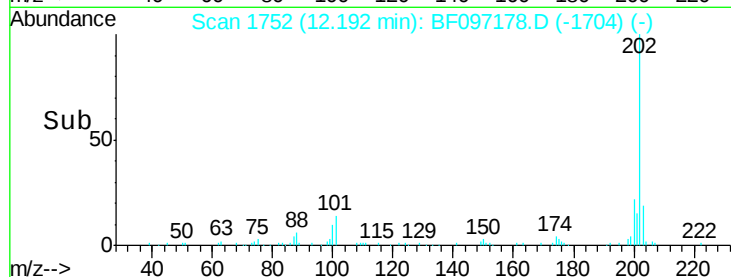
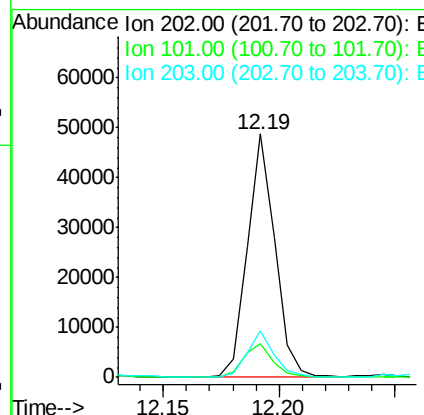
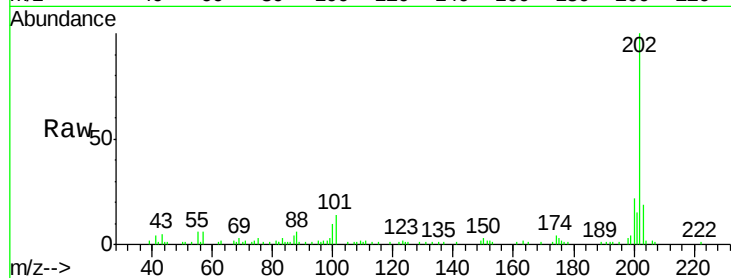




#74  
 Fluoranthene  
 Concen: 3.68 ng  
 RT: 12.19 min Scan# 1752  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

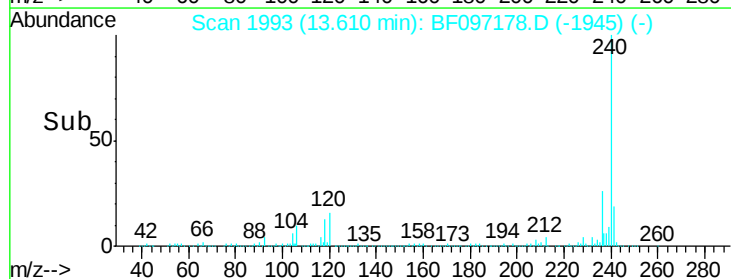
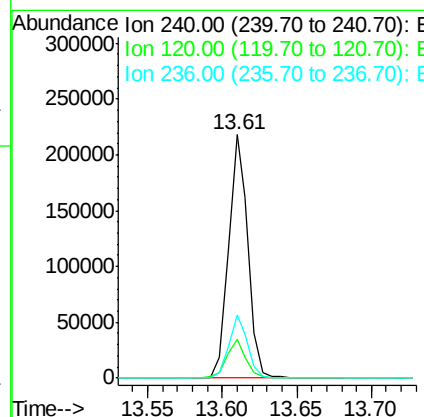
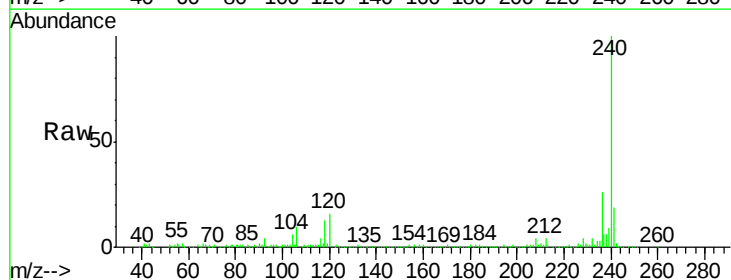
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

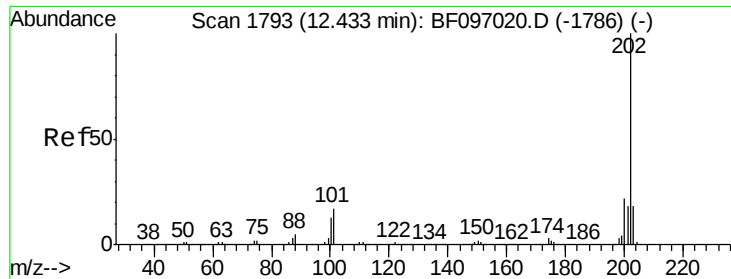
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.7  | 0.0   | 33.2  |
| 203     | 19.2  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.61 min Scan# 1993  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 16.0  | 5.8   | 8.8#  |
| 236     | 26.0  | 20.5  | 30.7  |

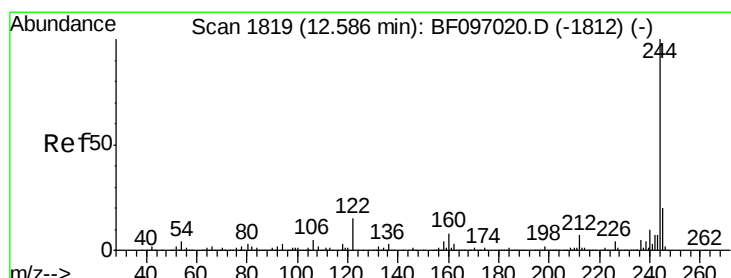
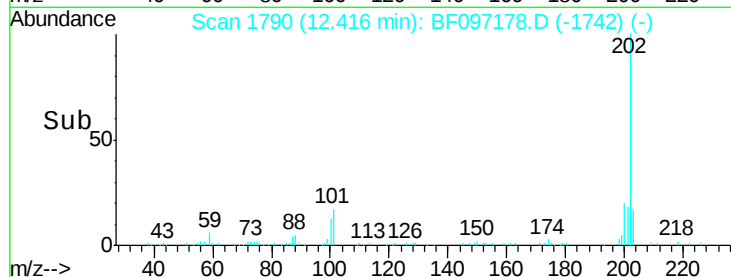
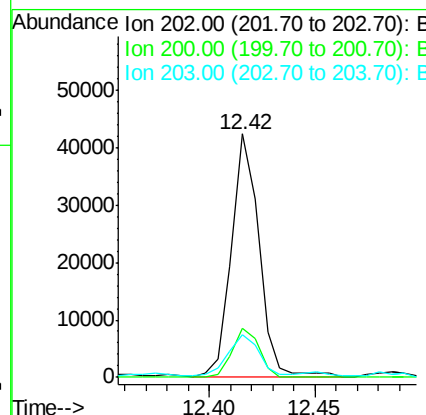
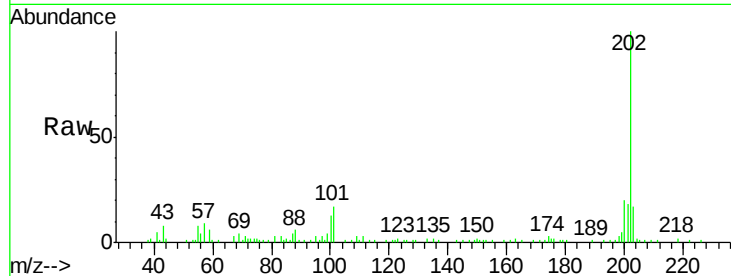




#77  
Pvrene  
Concen: 2.36 ng  
RT: 12.42 min Scan# 1790  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

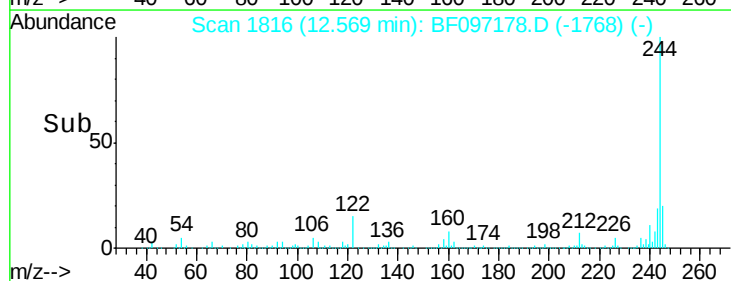
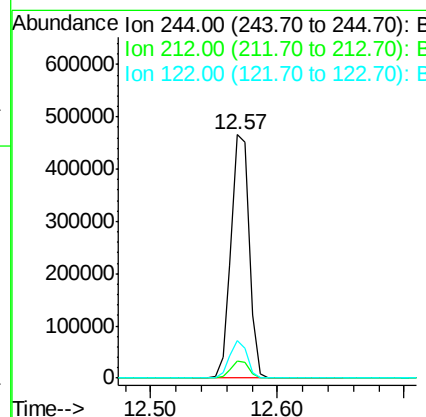
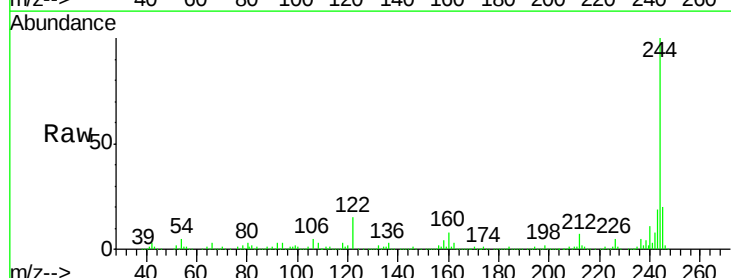
Instrument :  
BNA\_F  
ClientSampleId :  
TP-18D24

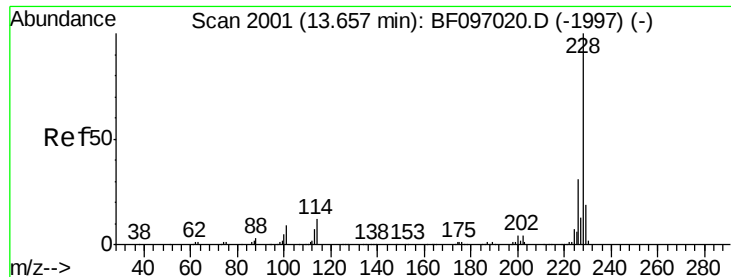
Tot Ion:202 Resp: 38601  
Ion Ratio Lower Upper  
202 100  
200 20.3 17.6 26.4  
203 17.3 14.4 21.6



#78  
Terphenyl-d14  
Concen: 47.26 ng  
RT: 12.57 min Scan# 1816  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Tgt Ion:244 Resp: 463582  
Ion Ratio Lower Upper  
244 100  
212 6.9 6.0 9.0  
122 15.4 10.3 15.5

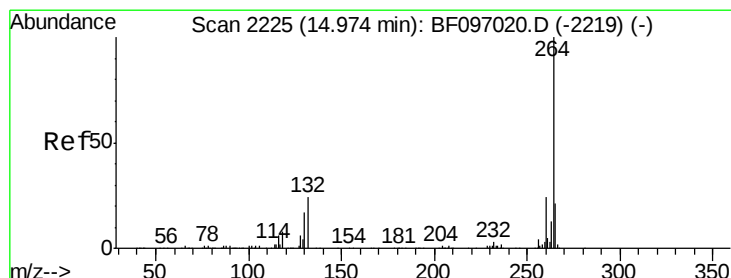
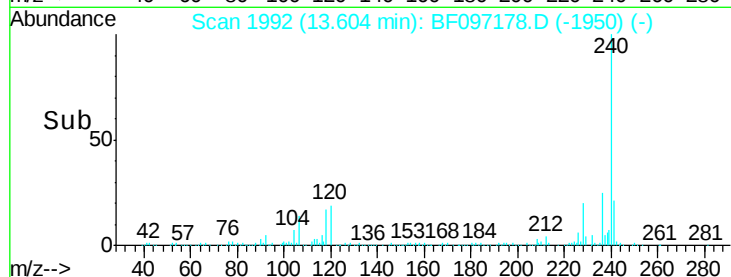
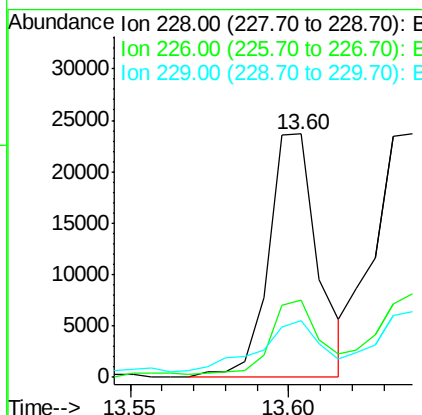
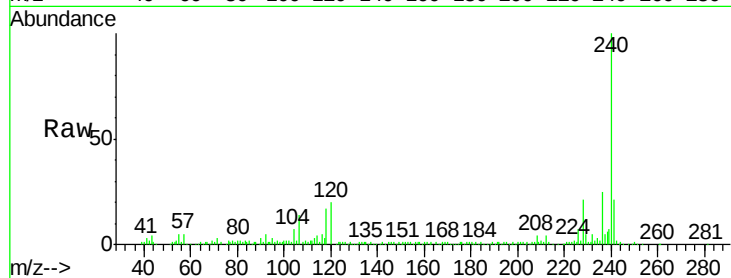




#82  
 Chrysene  
 Concen: 2.03 ng  
 RT: 13.60 min Scan# 1992  
 Delta R.T. -0.05 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

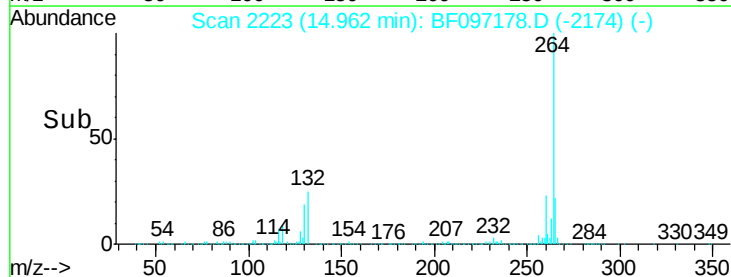
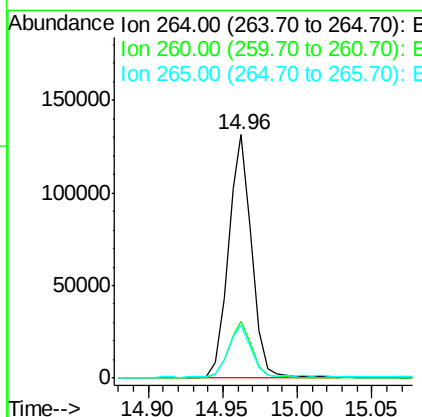
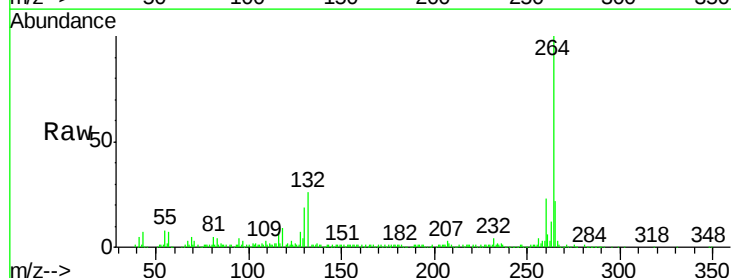
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

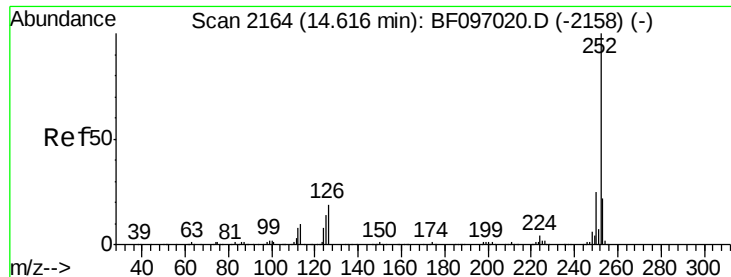
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 24.9  | 37.3  |
| 229     | 23.3  | 15.8  | 23.6  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.96 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.5  | 29.3  |
| 265     | 21.9  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 4.51 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

ClientSampleId :

TP-18D24

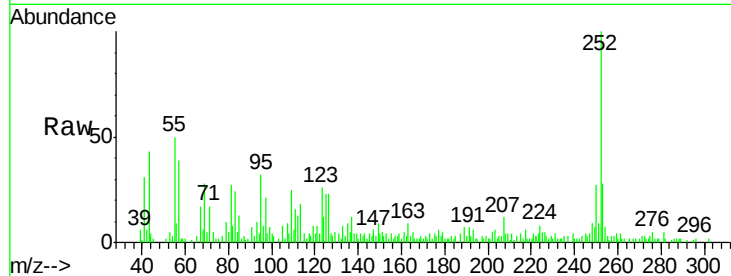
Tot Ion:252 Resp: 39116

Ion Ratio Lower Upper

252 100

253 28.1 18.1 27.1#

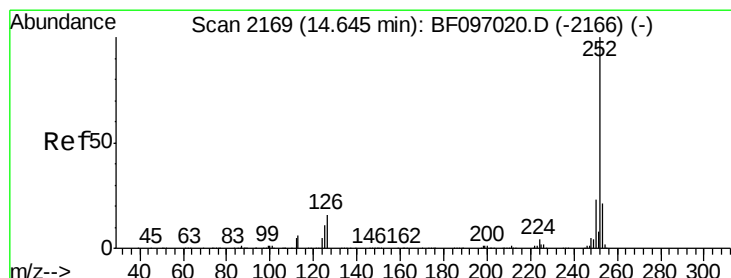
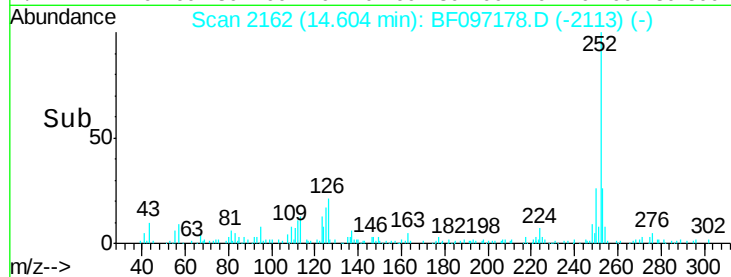
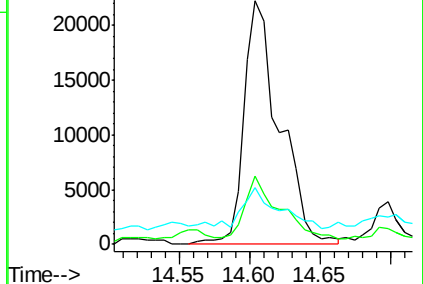
125 23.3 9.8 14.8#



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: 4.74 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.04 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

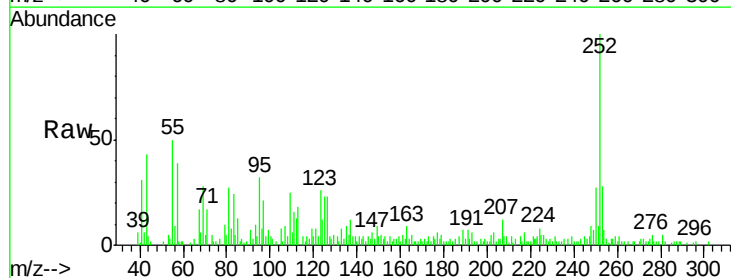
Tgt Ion:252 Resp: 39116

Ion Ratio Lower Upper

252 100

253 28.1 18.4 27.6#

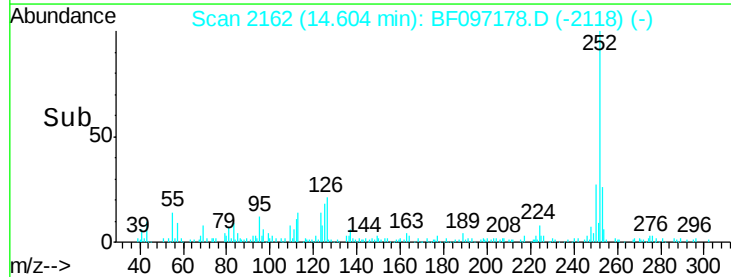
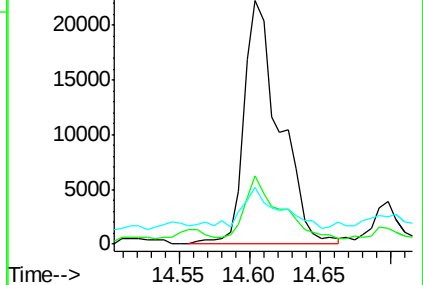
125 23.3 13.1 19.7#

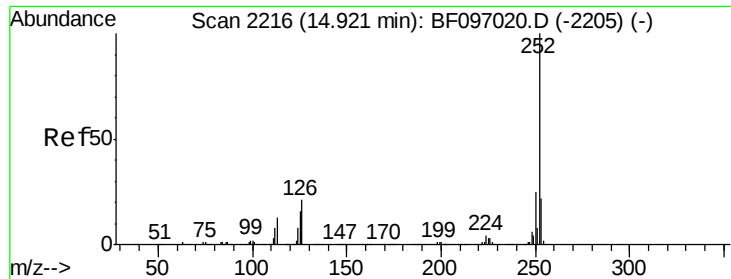


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

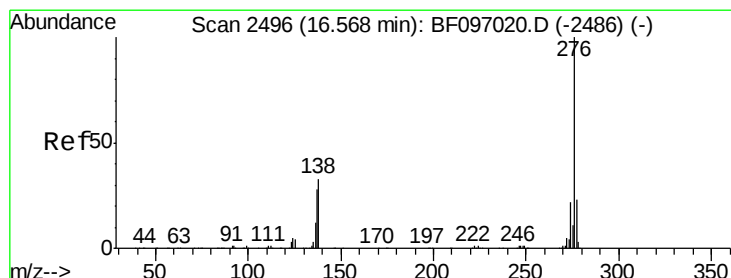
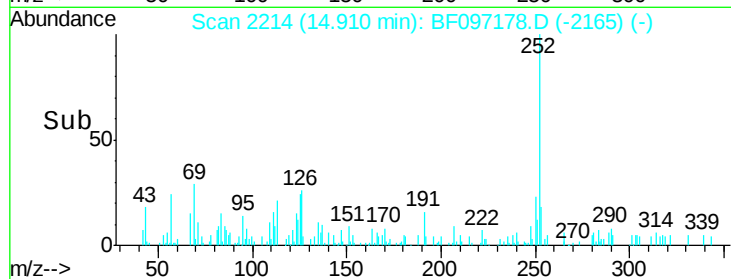
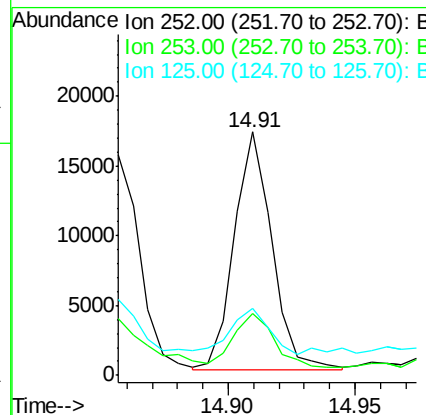
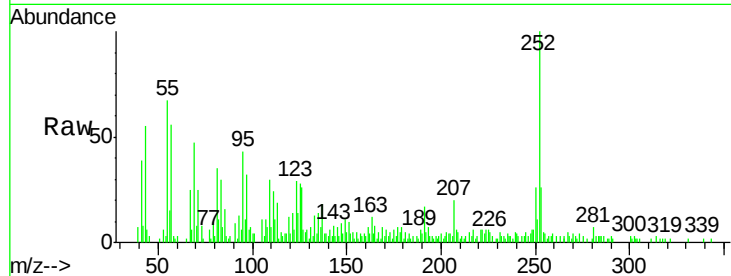




#89  
Benzo(a)pyrene  
Concen: 2.23 ng  
RT: 14.91 min Scan# 2214  
Delta R.T. -0.01 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Instrument :  
BNA\_F  
ClientSampleId :  
TP-18D24

Tot Ion:252 Resp: 17712  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.5 26.3  
125 27.6 11.0 16.4#



#91  
Benzo(g,h,i)perylene  
Concen: 2.07 ng  
RT: 16.54 min Scan# 2492  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Tgt Ion:276 Resp: 14117  
Ion Ratio Lower Upper  
276 100  
277 32.3 18.6 28.0#  
138 40.9 25.4 38.0#

