

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121917\  
 Data File : BF101524.D  
 Acq On : 19 Dec 2017 16:05  
 Operator : SJ/JU  
 Sample : I6908-09  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 5

Quant Time: Dec 19 16:55:18 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 18 15:38:59 2017  
 Response via : Initial Calibration

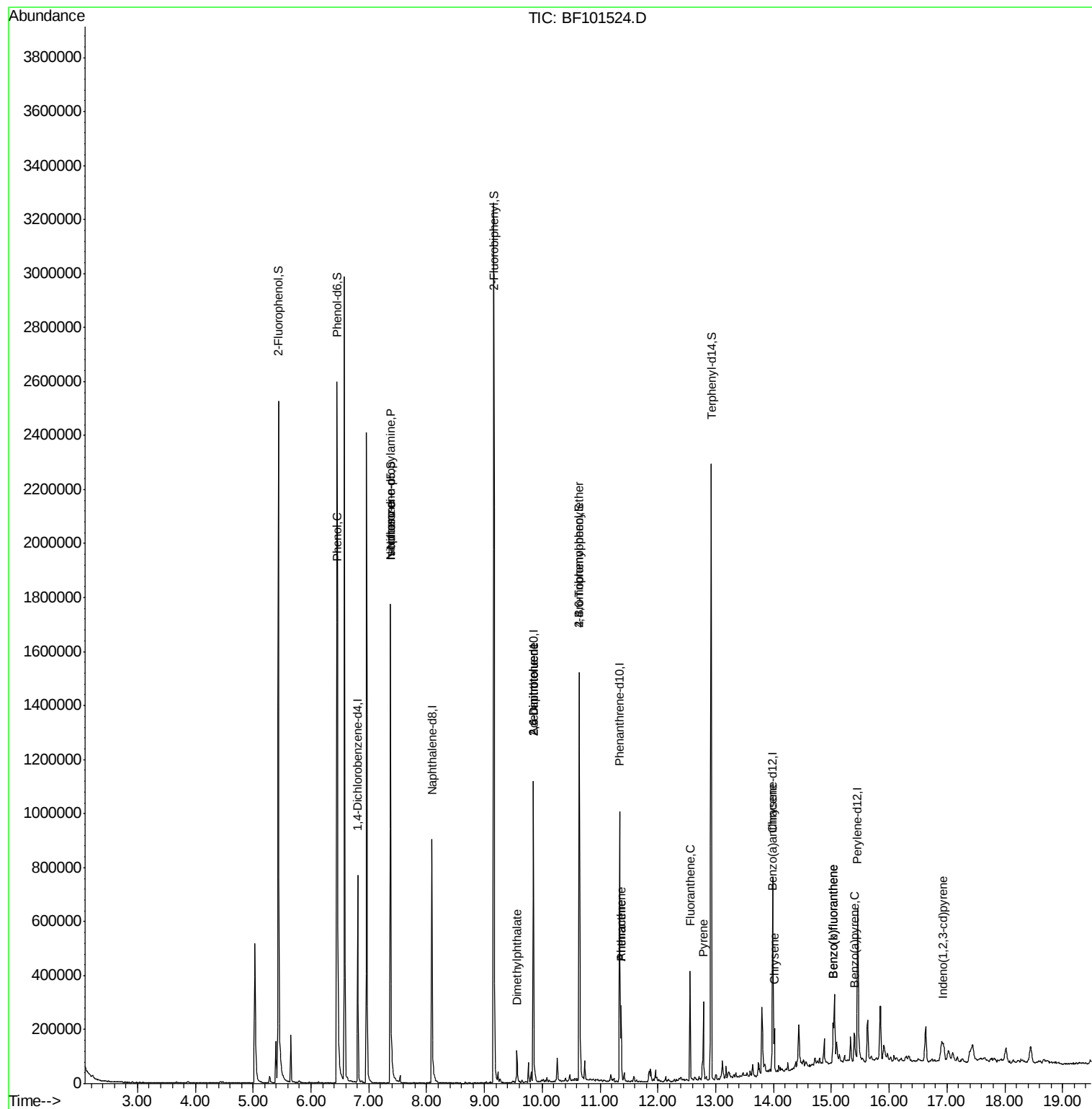
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 126074   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 508614   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 220479   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.34 | 188  | 375368   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 225771   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 270191   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 855532   | 101.08 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.45  | 99   | 1029129  | 97.70  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 653527   | 71.53  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 209461   | 98.59  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 1076848  | 75.76  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 800946   | 85.52  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.46  | 94   | 47423    | 3.950  | ng    | 81       |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 84900    | 12.273 | ng    | # 80     |
| 25) Isophorone                 | 7.37  | 82   | 653524   | 35.655 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.56  | 163  | 52837    | 2.979  | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 27785    | 7.709  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 27785    | 6.842  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 13348    | 3.165  | ng    | # 1      |
| 70) Phenanthrene               | 11.36 | 178  | 106686   | 5.111  | ng    | 97       |
| 71) Anthracene                 | 11.36 | 178  | 106686   | 5.003  | ng    | 98       |
| 74) Fluoranthene               | 12.56 | 202  | 167276   | 7.634  | ng    | 96       |
| 77) Pyrene                     | 12.79 | 202  | 120611   | 7.118  | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.97 | 228  | 61660    | 4.136  | ng    | 98       |
| 82) Chrysene                   | 14.02 | 228  | 68144    | 4.841  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.94 | 276  | 39272    | 3.133  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 15.03 | 252  | 104721   | 6.359  | ng    | 96       |
| 88) Benzo(k)fluoranthene       | 15.03 | 252  | 104346   | 6.517  | ng    | 98       |
| 89) Benzo(a)pyrene             | 15.40 | 252  | 52161    | 3.436  | ng    | 98       |

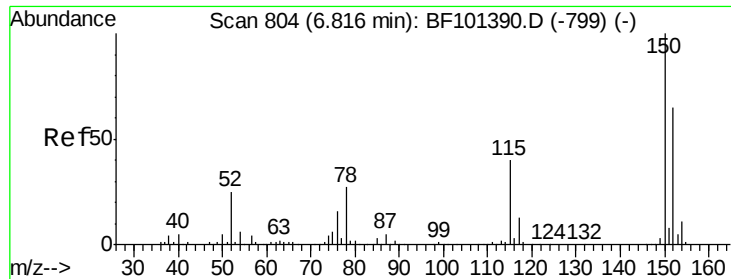
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121917\  
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Instrument :  
BNA\_F  
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Quant Time: Dec 19 16:55:18 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 18 15:38:59 2017  
Response via : Initial Calibration

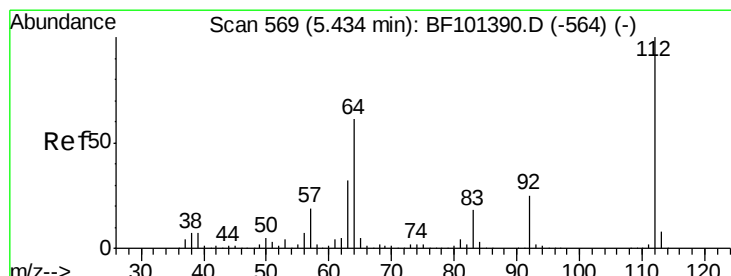
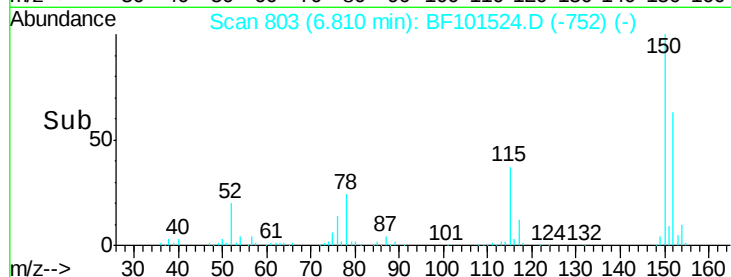
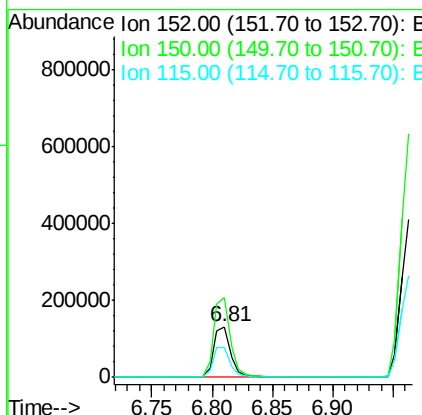
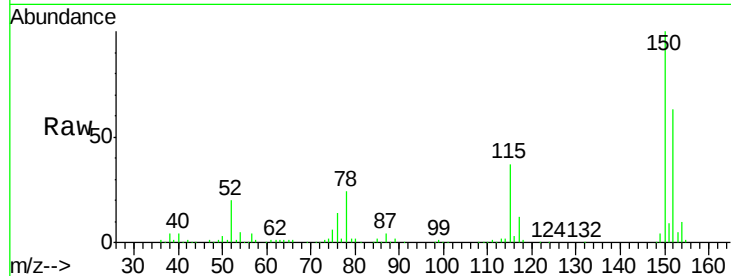




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

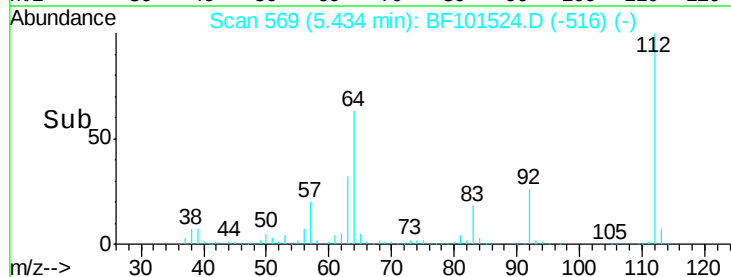
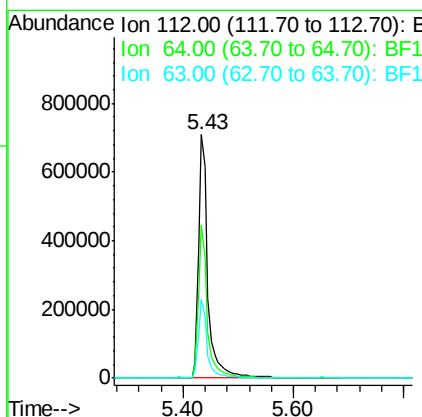
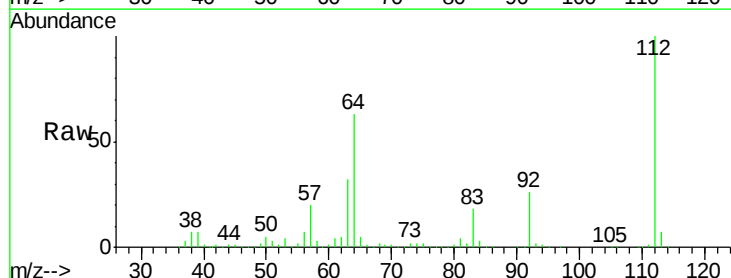
Instrument :  
 BNA\_F  
 ClientSampleId :  
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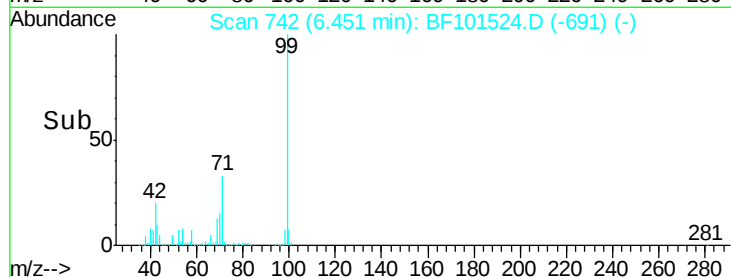
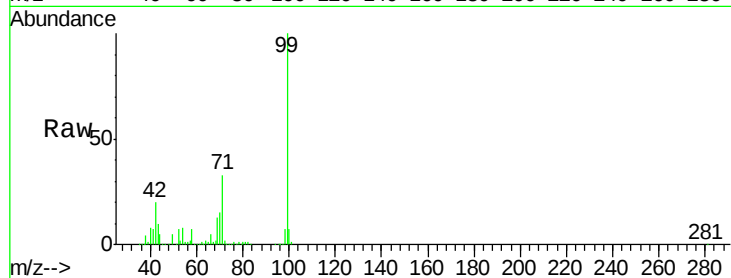
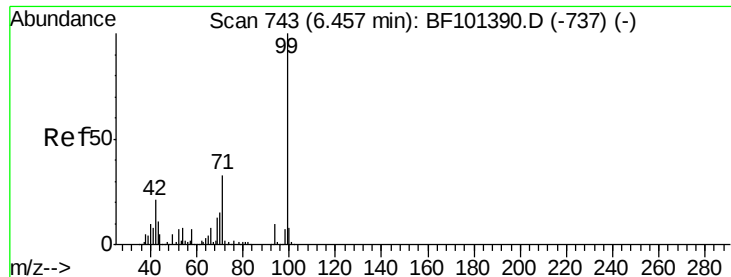
Tgt Ion:152 Resp: 126074  
 Ion Ratio Lower Upper  
 152 100  
 150 158.1 124.6 186.8  
 115 58.3 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 101.082 ng  
 RT: 5.43 min Scan# 569  
 Delta R.T. 0.01 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

Tgt Ion:112 Resp: 855532  
 Ion Ratio Lower Upper  
 112 100  
 64 62.8 47.9 71.9  
 63 32.3 23.7 35.5





#7

Phenol-d6

Concen: 97.701 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

Instrument :

BNA\_F

ClientSampleId :

5

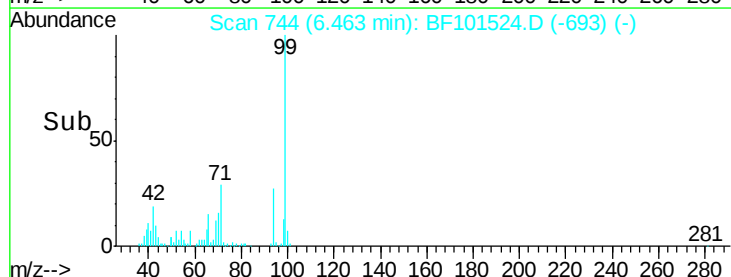
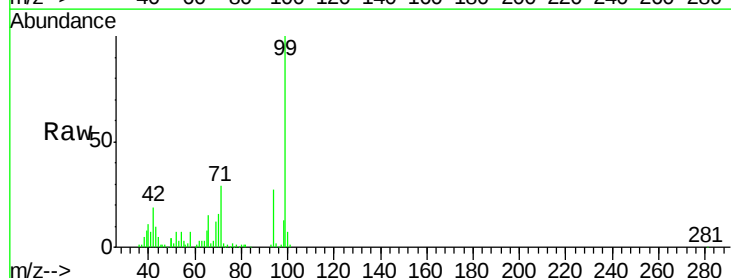
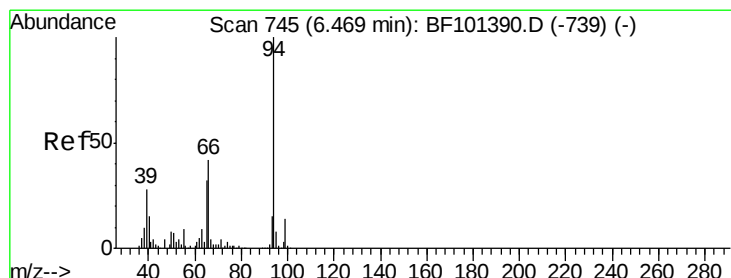
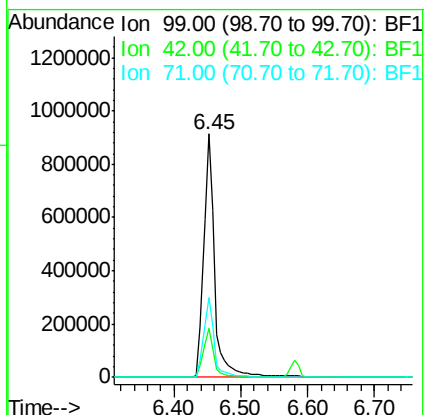
Tgt Ion: 99 Resp: 1029129

Ion Ratio Lower Upper

99 100

42 20.0 14.5 21.7

71 32.9 25.4 38.0



#10

Phenol

Concen: 3.950 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

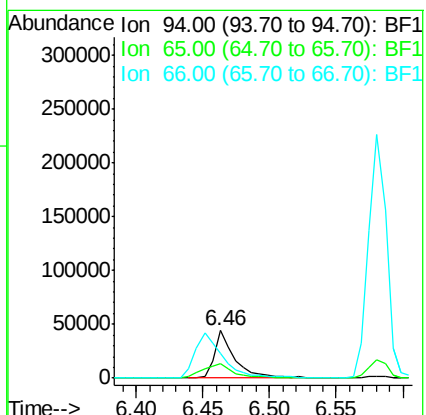
Tgt Ion: 94 Resp: 47423

Ion Ratio Lower Upper

94 100

65 30.9 7.9 47.9

66 53.5 16.2 56.2

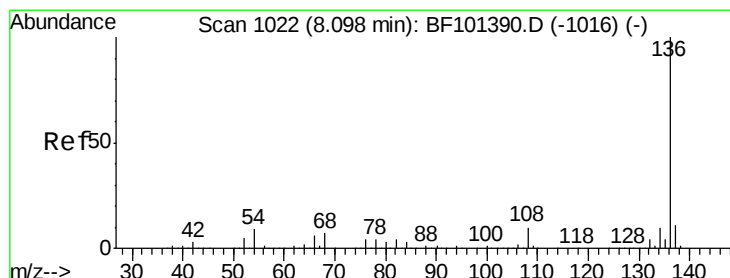
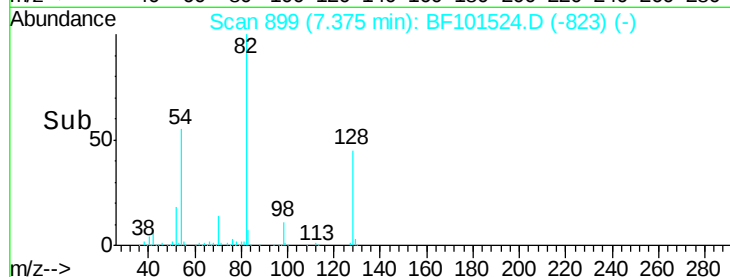
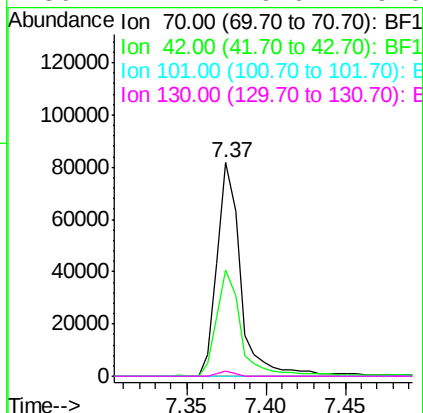
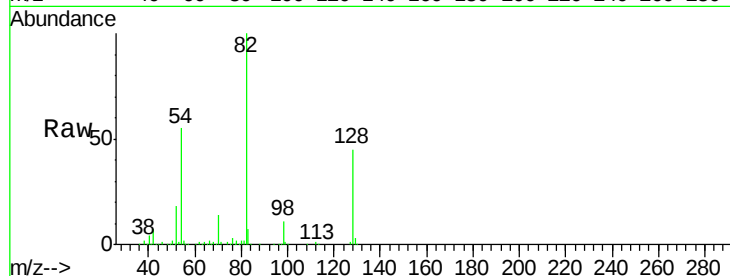




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.273 ng  
RT: 7.37 min Scan# 899  
Delta R.T. 0.15 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

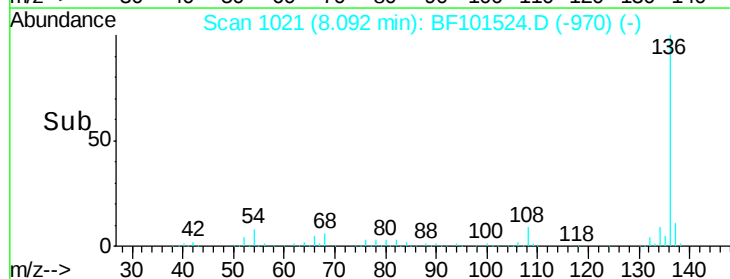
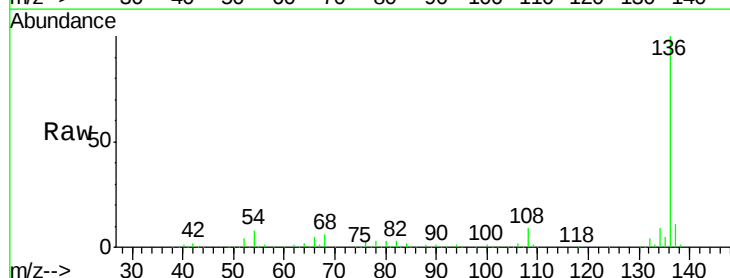
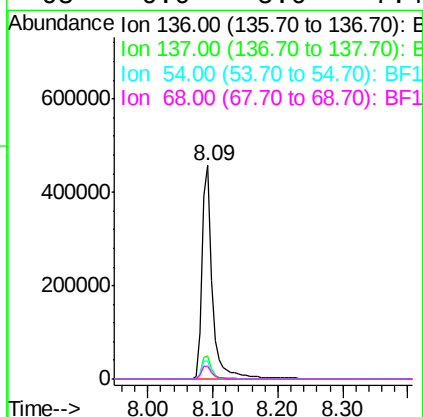
Instrument :  
BNA\_F  
ClientSampleId :  
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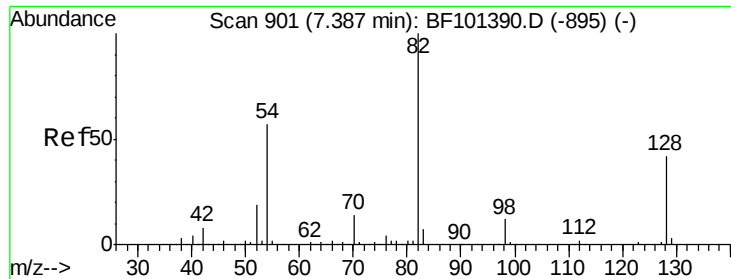
Tgt Ion: 70 Resp: 84900  
Ion Ratio Lower Upper  
70 100  
42 49.9 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.4 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. 0.00 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

Tgt Ion: 136 Resp: 508614  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 8.2 6.6 9.8  
68 6.0 5.0 7.4

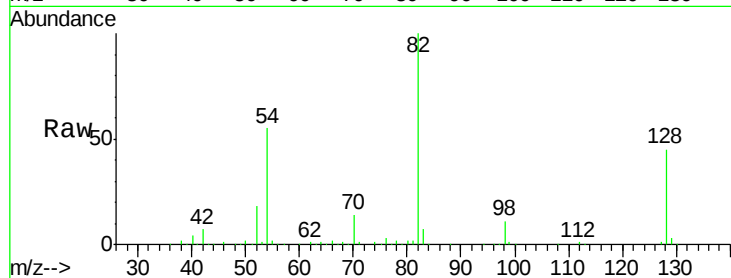




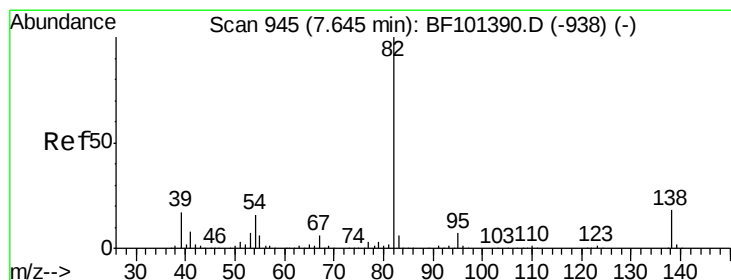
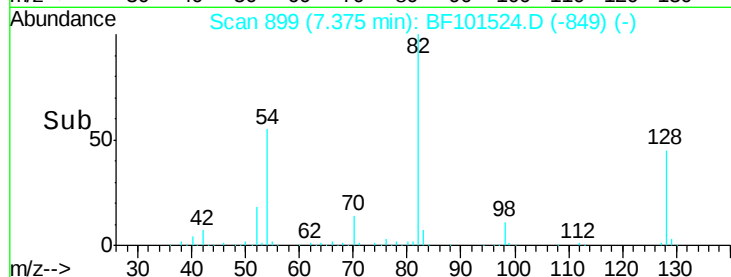
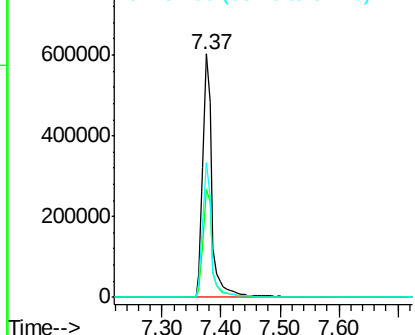
#23  
 Nitrobenzene-d5  
 Concen: 71.526 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.01 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.6  | 36.1  | 54.1  |
| 54      | 55.1  | 41.4  | 62.2  |

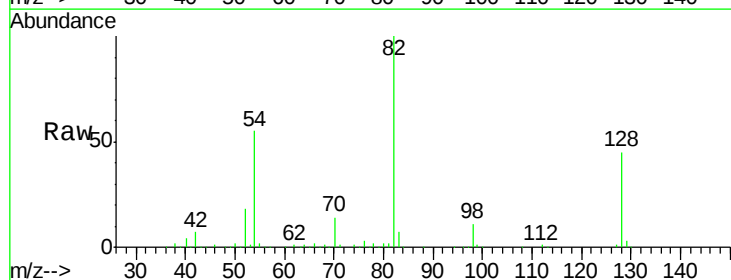


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

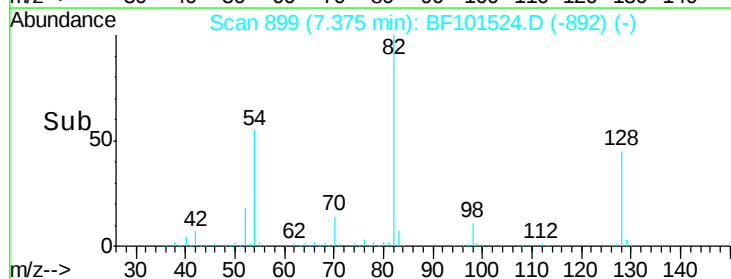
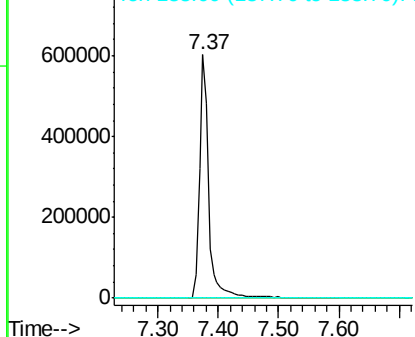


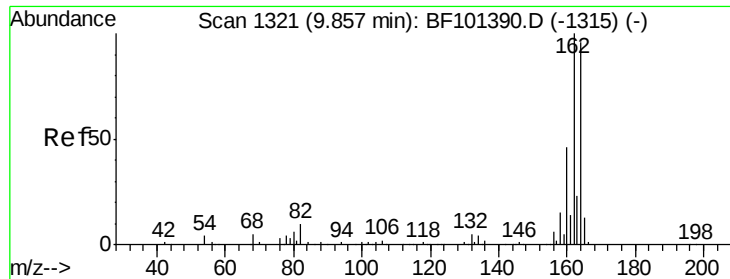
#25  
 Isophorone  
 Concen: 35.655 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.26 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.2   | 7.8#  |
| 138     | 0.0   | 14.9  | 22.3# |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1

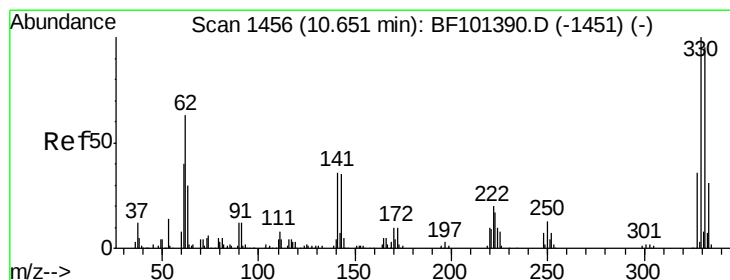
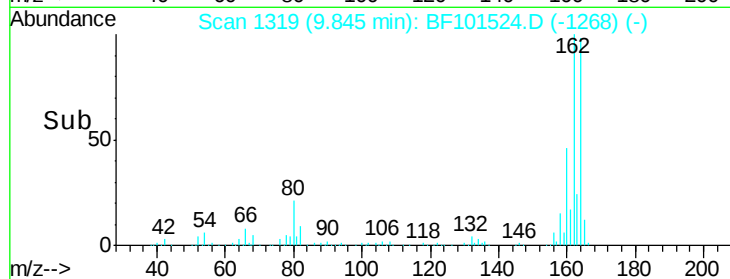
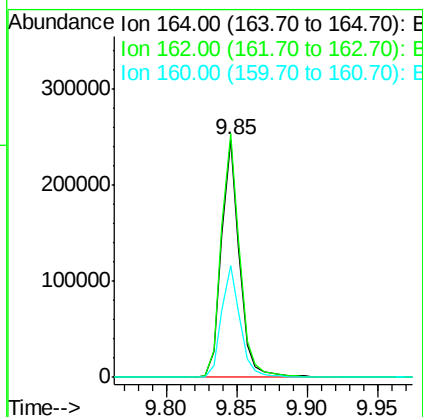
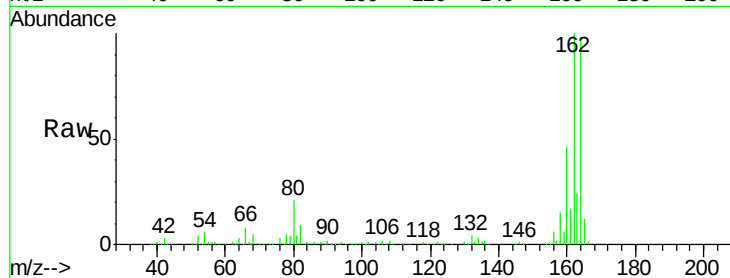




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.00 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

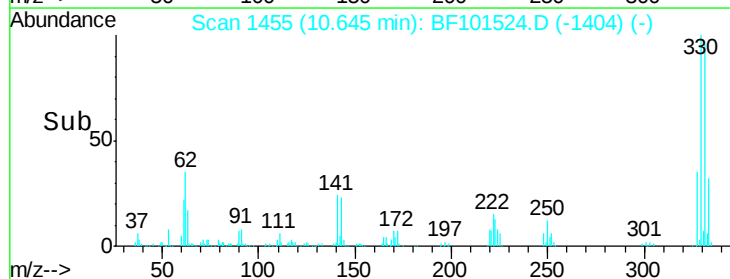
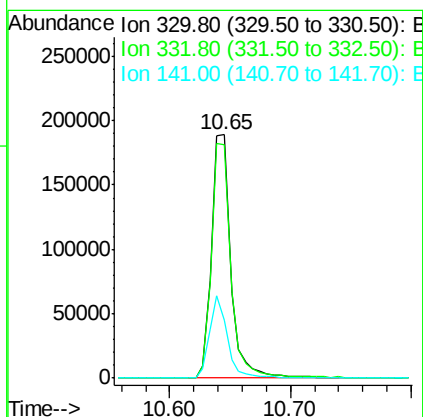
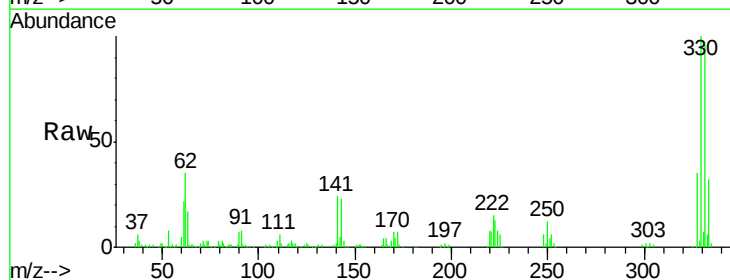
Instrument :  
 BNA\_F  
 ClientSampleId :  
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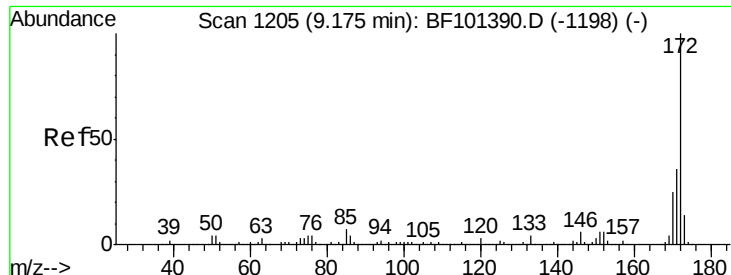
Tgt Ion:164 Resp: 220479  
 Ion Ratio Lower Upper  
 164 100  
 162 102.5 86.1 129.1  
 160 46.9 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 98.594 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

Tgt Ion:330 Resp: 209461  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 77.0 115.6  
 141 31.4 29.9 44.9

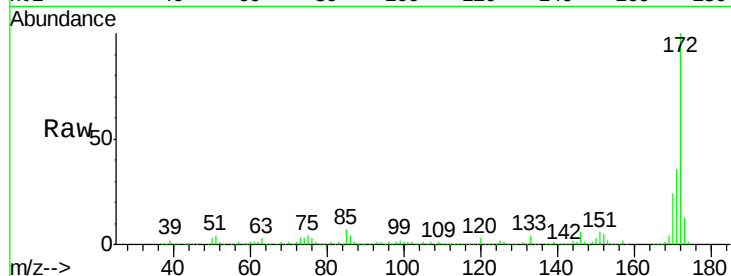




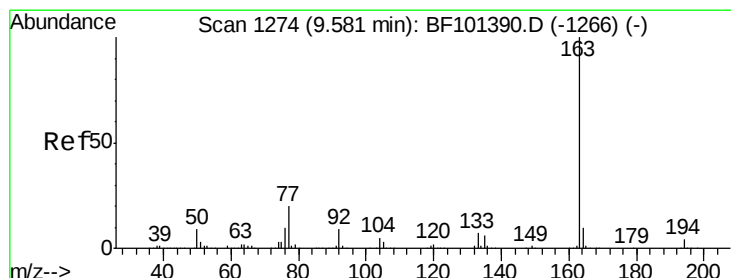
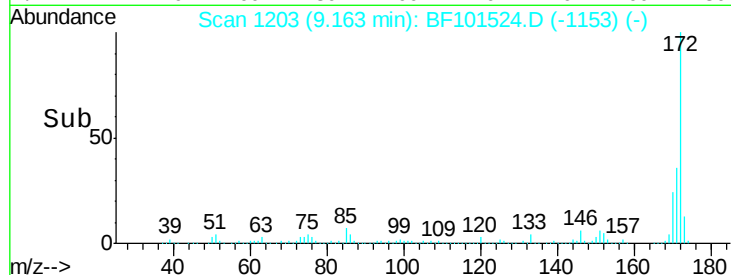
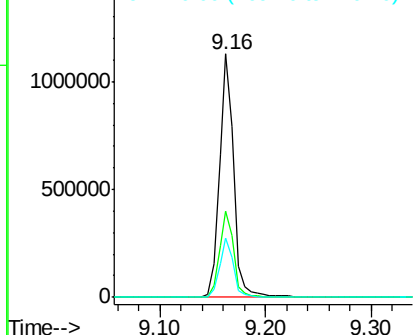
#44  
2-Fluorobiphenyl  
Concen: 75.765 ng  
RT: 9.16 min Scan# 1203  
Delta R.T. -0.01 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
5

Tgt Ion:172 Resp: 1076848  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.7 44.5  
170 24.1 19.6 29.4

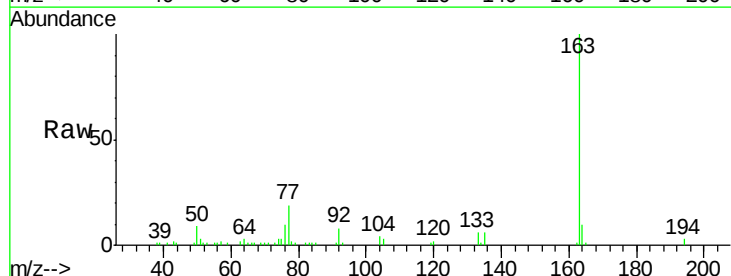


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

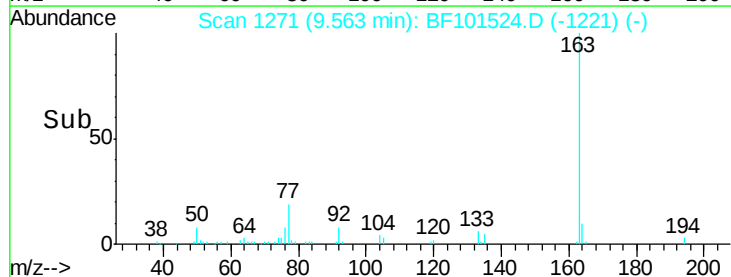
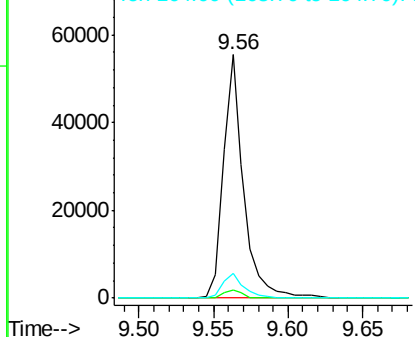


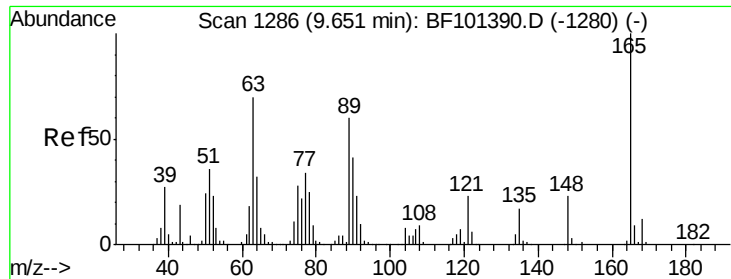
#49  
Dimethylphthalate  
Concen: 2.979 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

Tgt Ion:163 Resp: 52837  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.7 4.1  
164 10.1 8.2 12.2



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

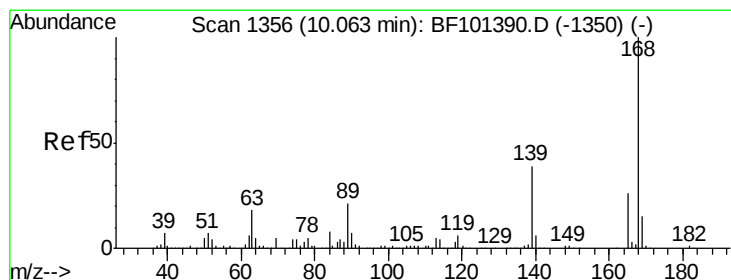
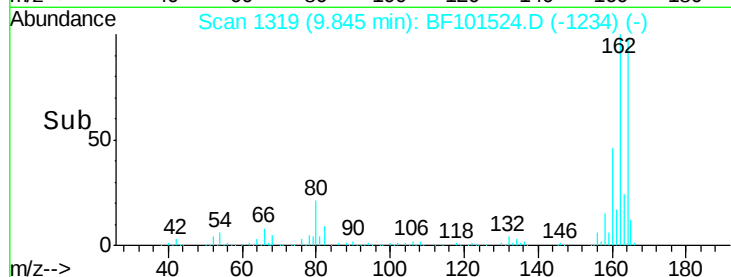
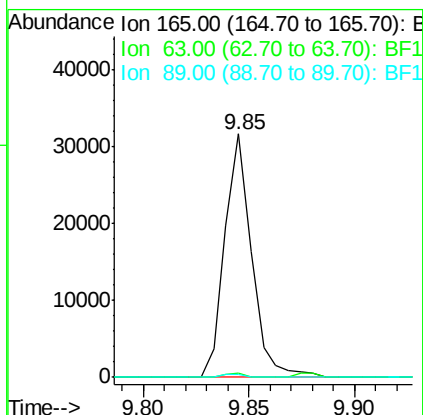
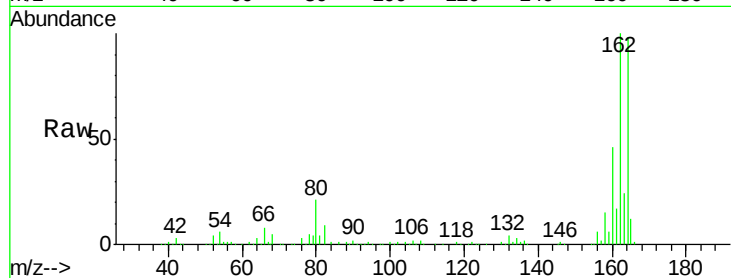




#50  
 2,6-Dinitrotoluene  
 Concen: 7.709 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.20 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

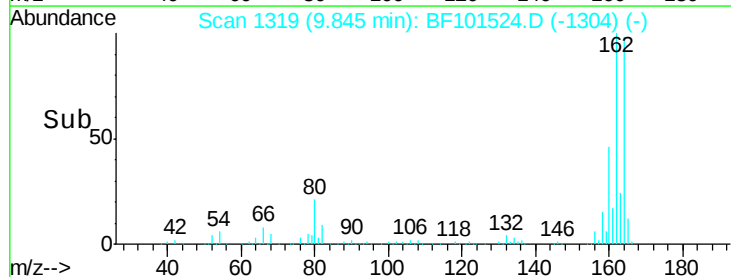
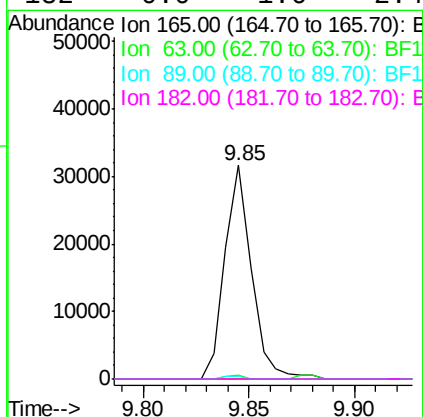
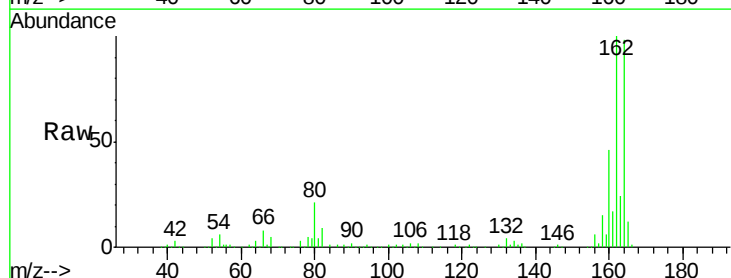
Instrument :  
 BNA\_F  
 ClientSampled :  
 5

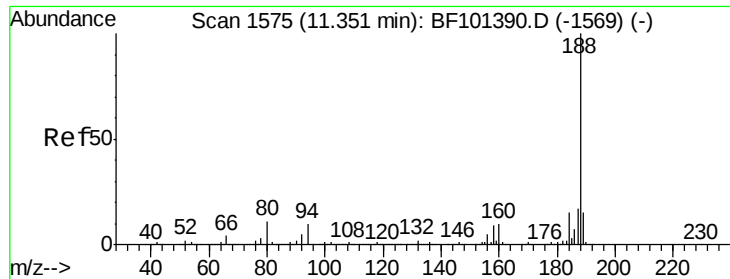
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.842 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.21 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 36.4  | 54.6# |
| 89      | 1.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

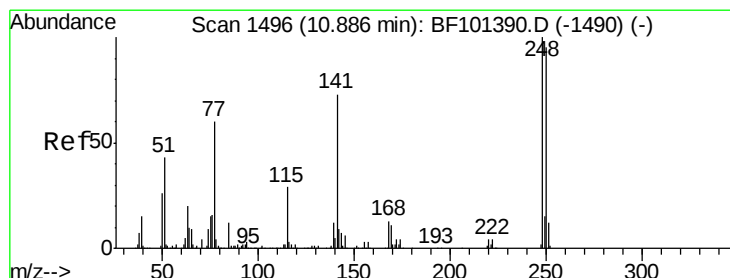
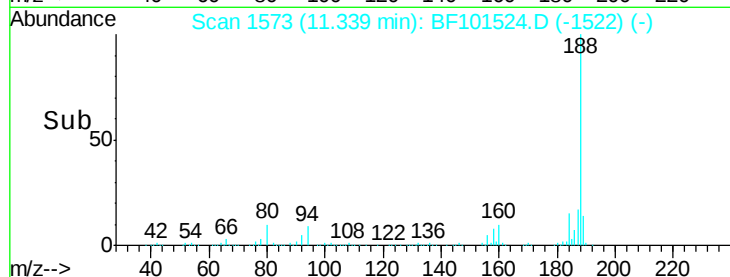
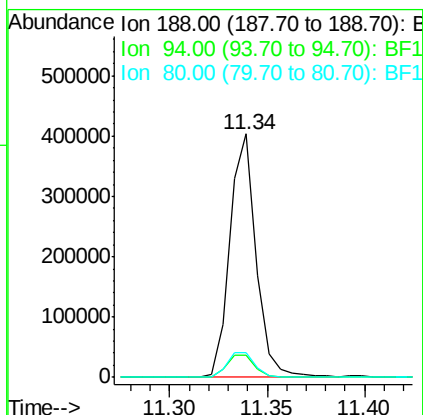
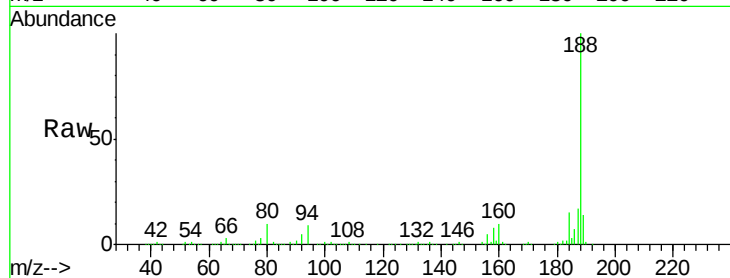




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

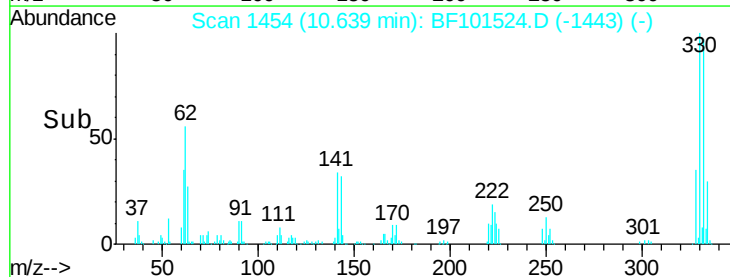
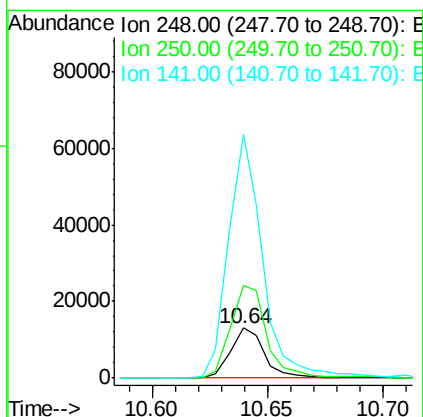
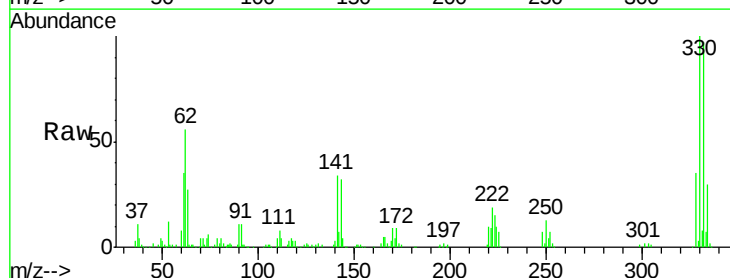
Instrument :  
 BNA\_F  
 ClientSampled :  
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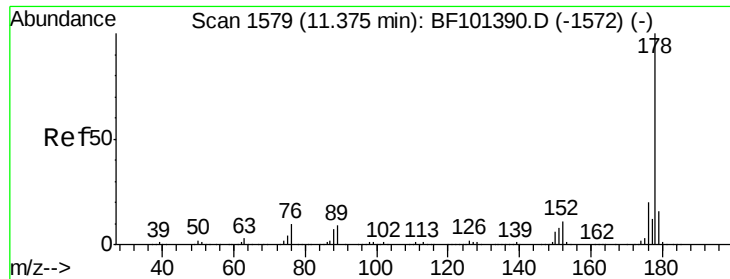
Tgt Ion:188 Resp: 375368  
 Ion Ratio Lower Upper  
 188 100  
 94 9.3 8.5 12.7  
 80 10.0 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 3.165 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.24 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

Tgt Ion:248 Resp: 13348  
 Ion Ratio Lower Upper  
 248 100  
 250 183.6 76.9 115.3#  
 141 484.1 74.4 111.6#

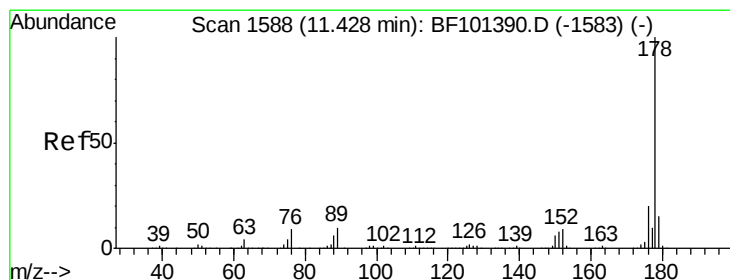
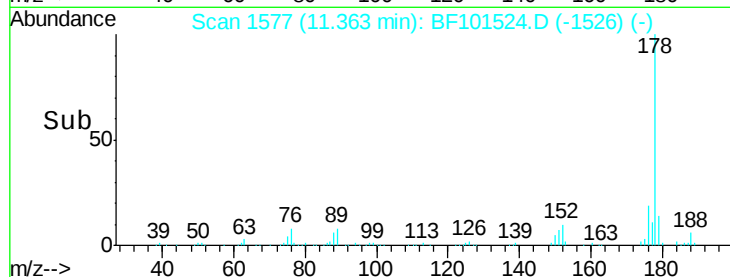
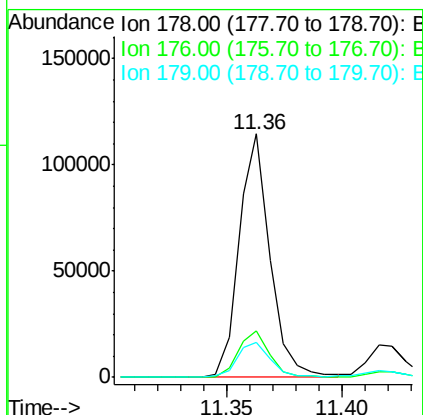
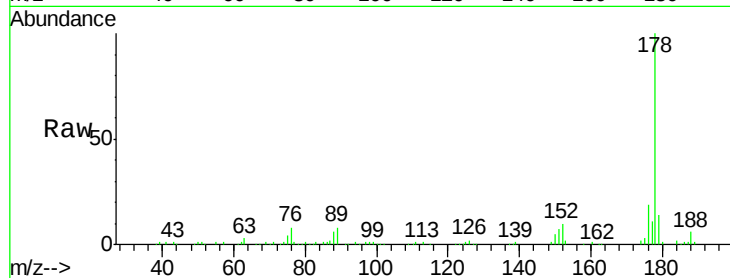




#70  
 Phenanthrene  
 Concen: 5.111 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. 0.00 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

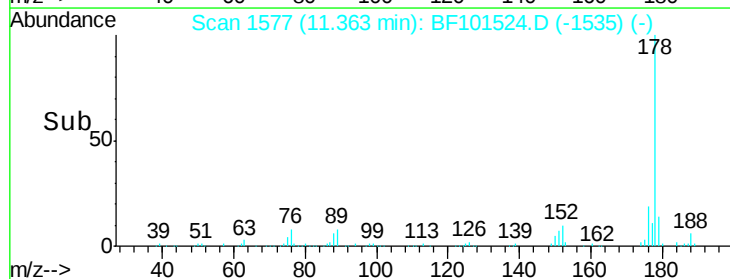
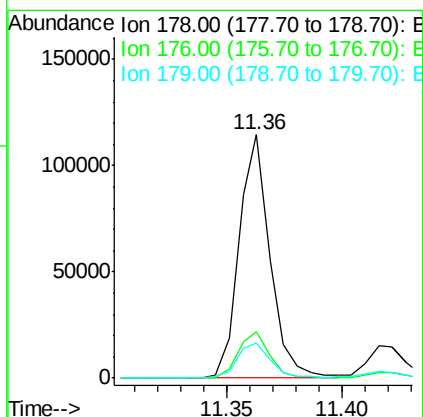
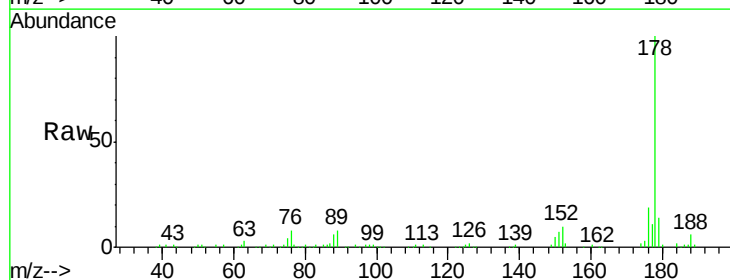
Instrument :  
 BNA\_F  
 ClientSampleId :  
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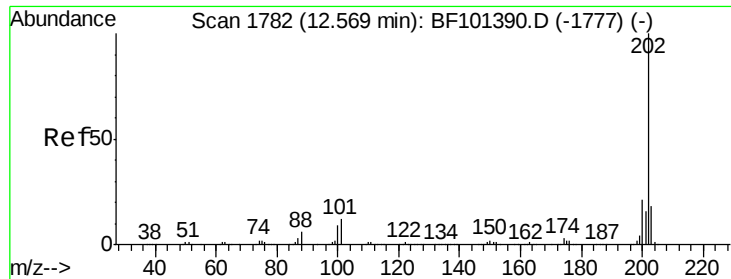
Tgt Ion:178 Resp: 106686  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.8 23.8  
 179 14.4 13.0 19.6



#71  
 Anthracene  
 Concen: 5.003 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.05 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

Tgt Ion:178 Resp: 106686  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.4 23.2  
 179 14.4 12.6 19.0





#74

Fluoranthene

Concen: 7.634 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

Instrument :

BNA\_F

ClientSampleId :

5

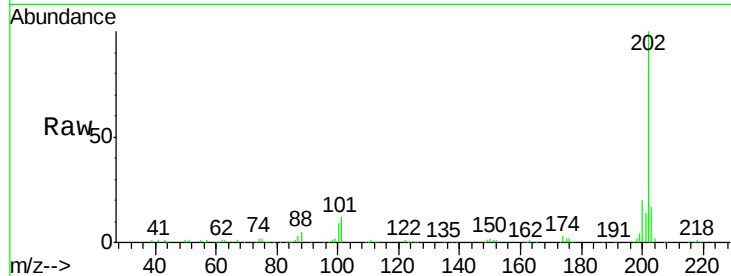
Tgt Ion: 202 Resp: 167276

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.1

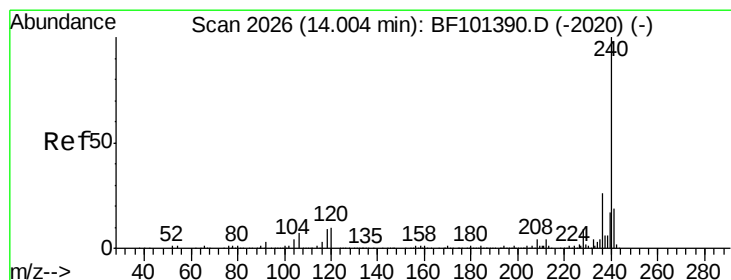
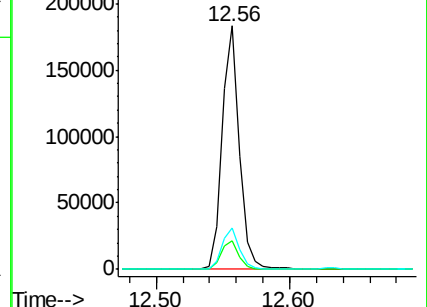
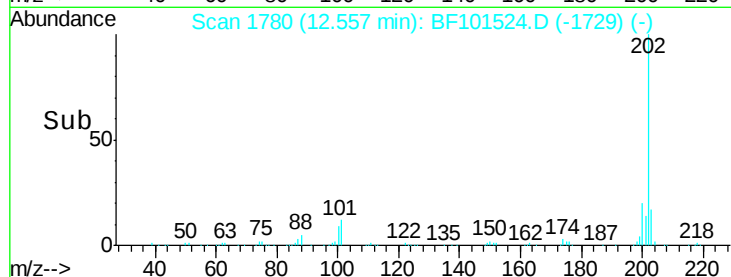
203 16.8 0.0 38.1



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: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

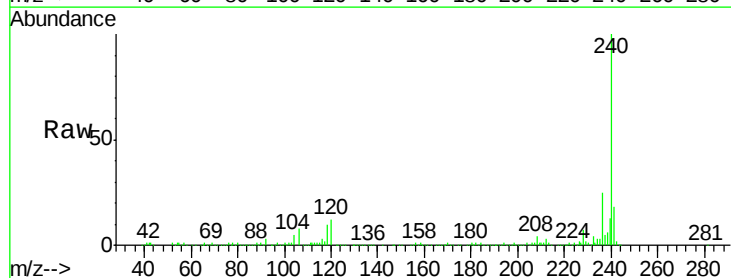
Tgt Ion: 240 Resp: 225771

Ion Ratio Lower Upper

240 100

120 11.6 9.5 14.3

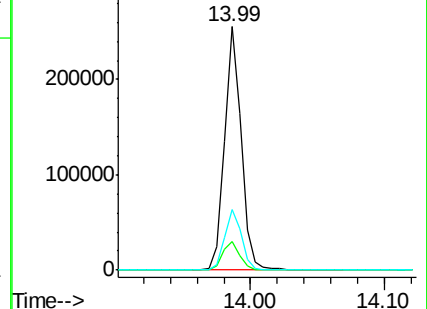
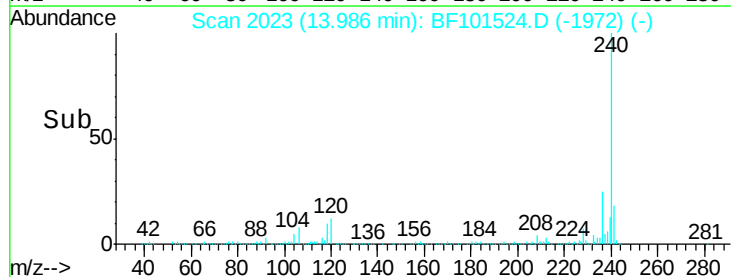
236 25.1 20.7 31.1

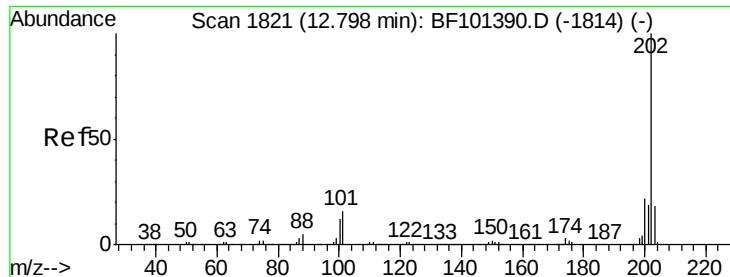


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 7.118 ng

RT: 12.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

Instrument :

BNA\_F

ClientSampleId :

5

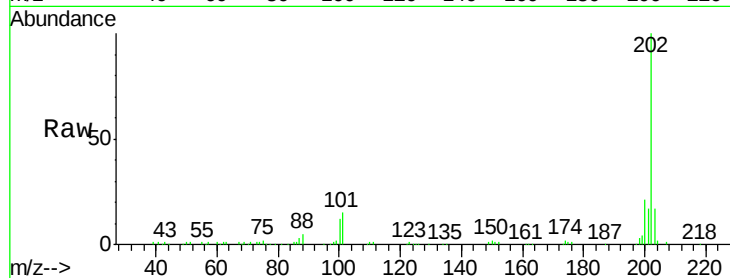
Tgt Ion: 202 Resp: 120611

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

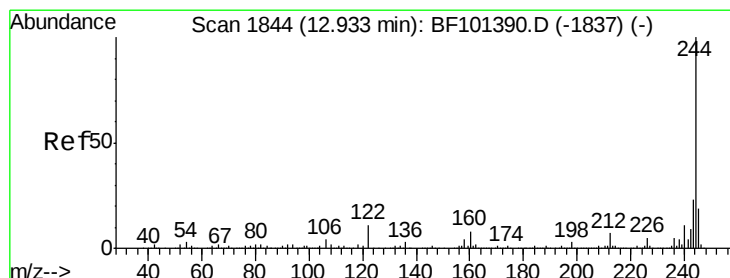
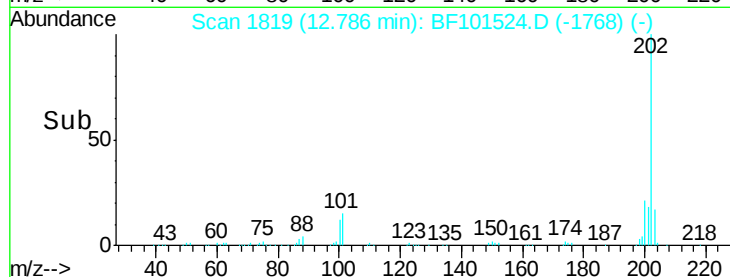
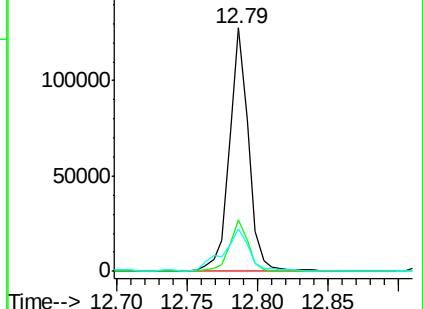
203 17.4 14.3 21.5



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: 85.525 ng

RT: 12.92 min Scan# 1842

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

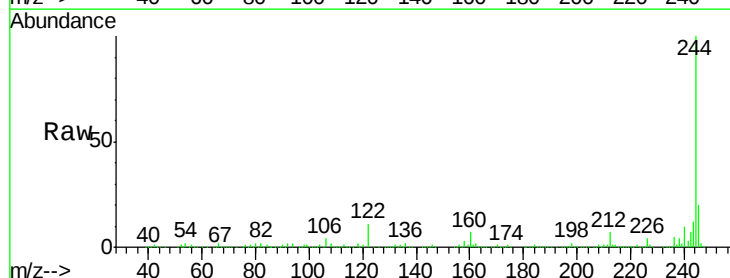
Tgt Ion: 244 Resp: 800946

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

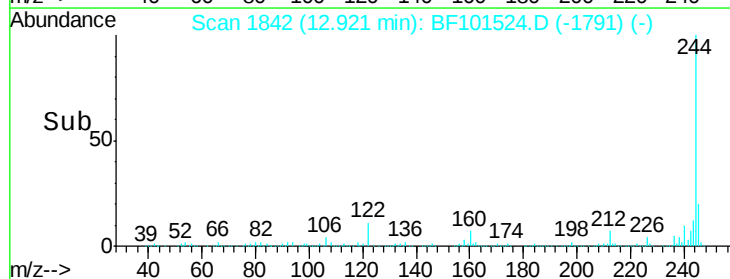
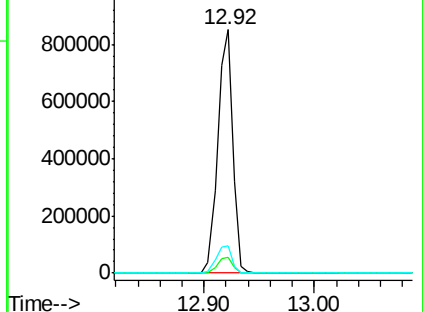
122 11.1 11.0 16.4

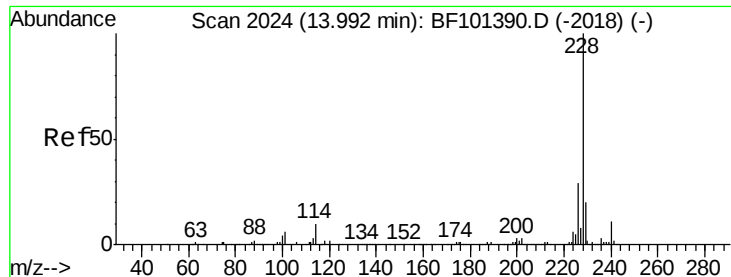


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.136 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

Instrument :

BNA\_F

ClientSampleId :

5

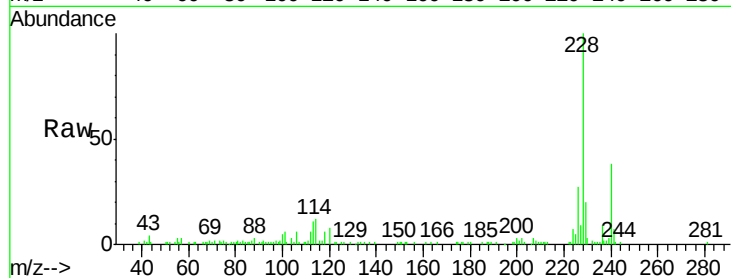
Tgt Ion:228 Resp: 61660

Ion Ratio Lower Upper

228 100

226 26.7 22.6 33.8

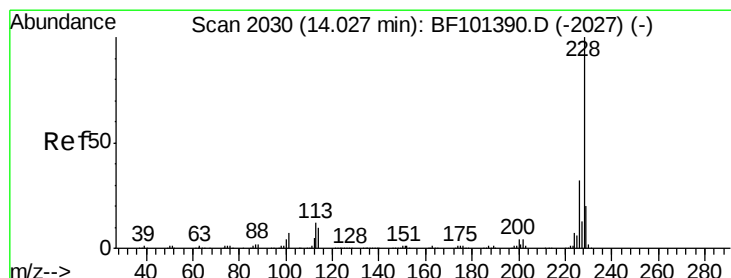
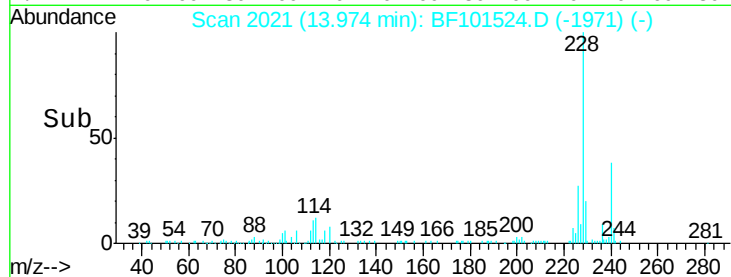
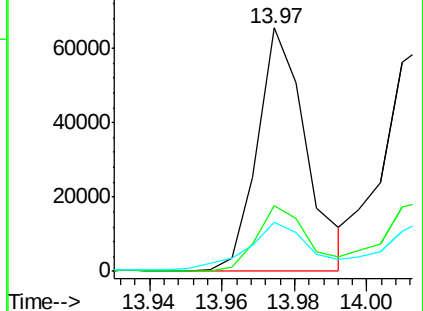
229 20.1 15.8 23.6



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



#82

Chrysene

Concen: 4.841 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

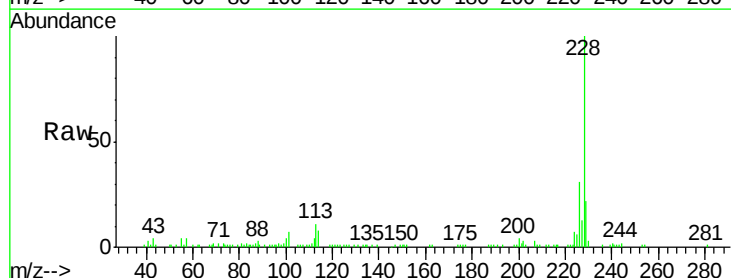
Tgt Ion:228 Resp: 68144

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

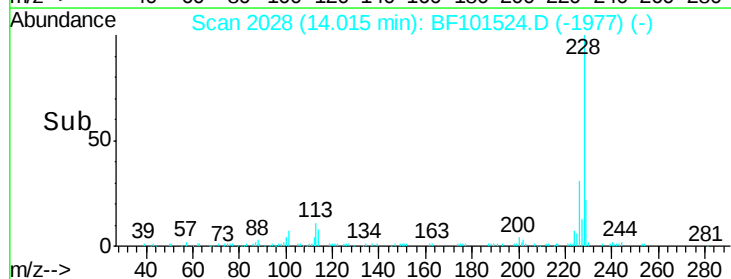
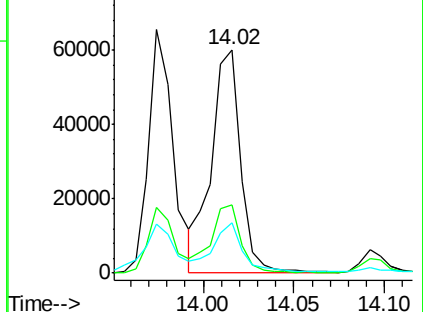
229 22.5 16.2 24.4

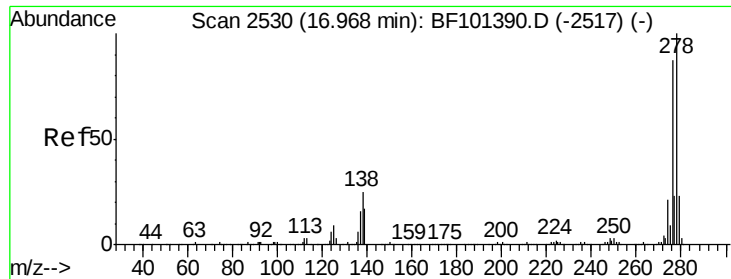


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

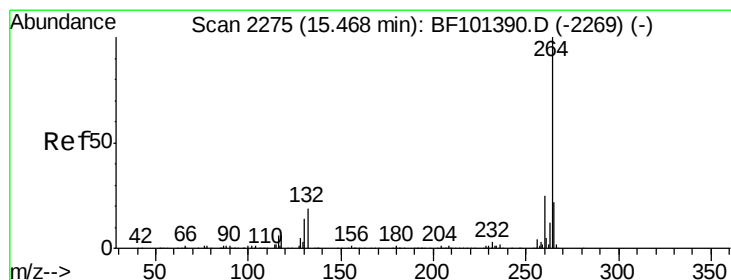
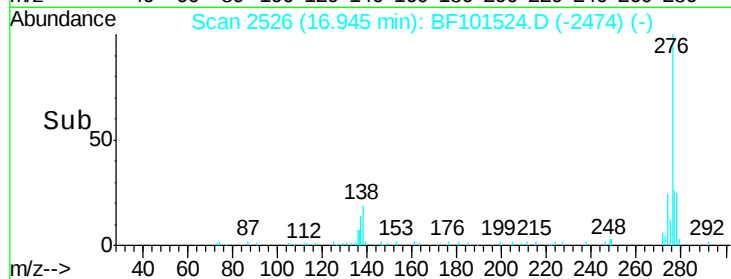
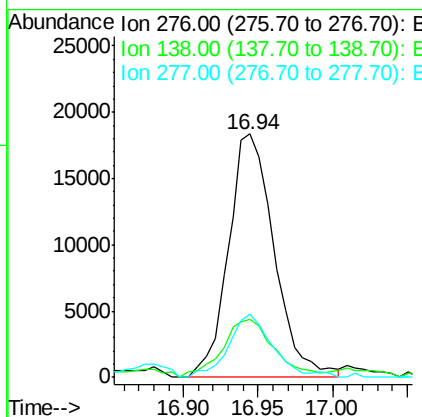
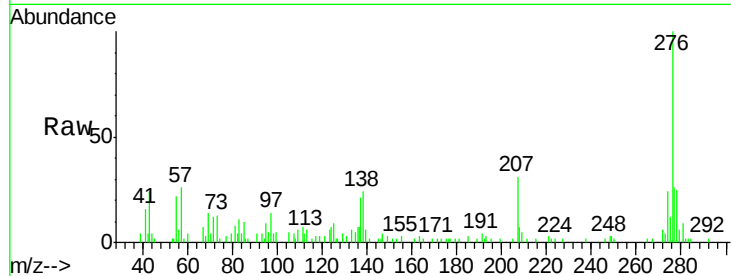




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.133 ng  
 RT: 16.94 min Scan# 2526  
 Delta R.T. 0.01 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

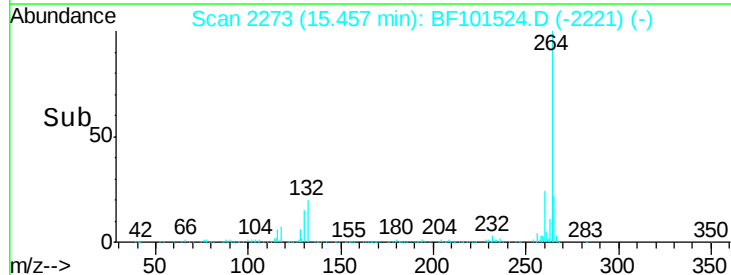
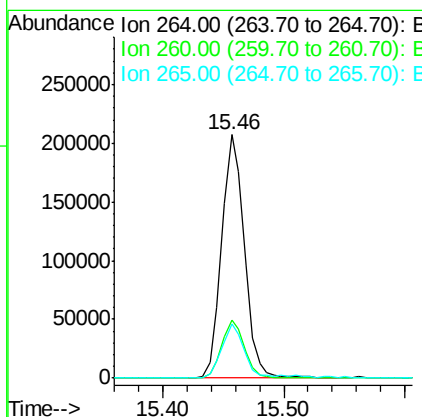
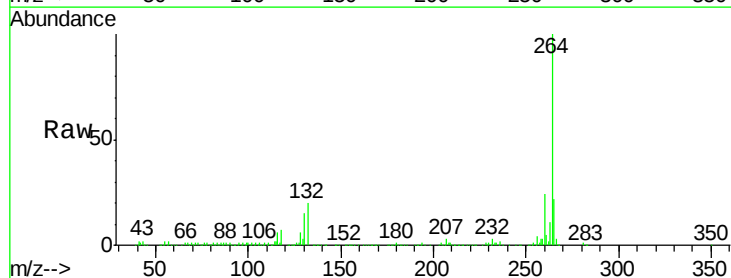
Instrument :  
 BNA\_F  
 ClientSampleId :  
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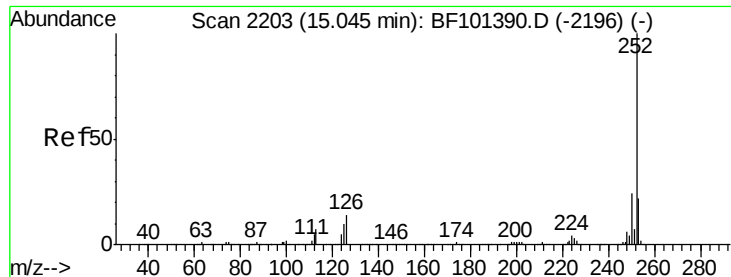
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.0  | 25.0  | 37.6  |
| 277     | 24.9  | 20.1  | 30.1  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. 0.01 min  
 Lab File: BF101524.D  
 Acq: 19 Dec 2017 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 22.0  | 17.5  | 26.3  |

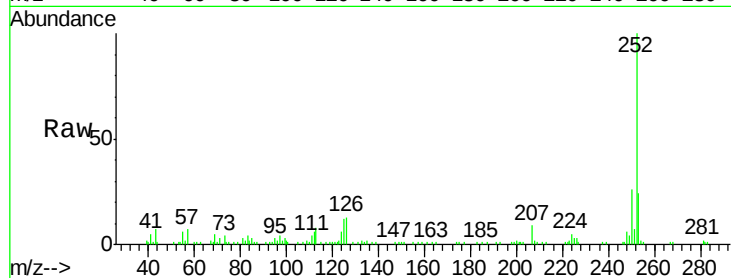




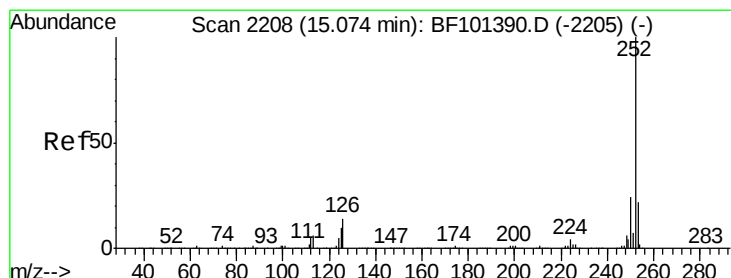
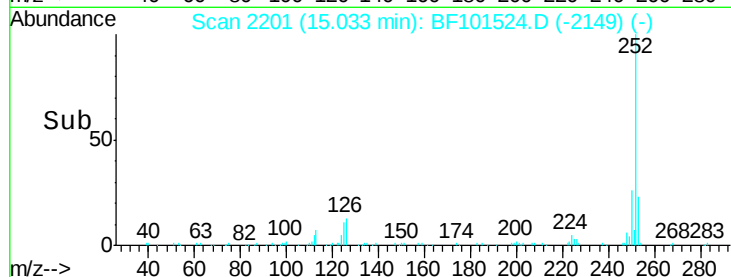
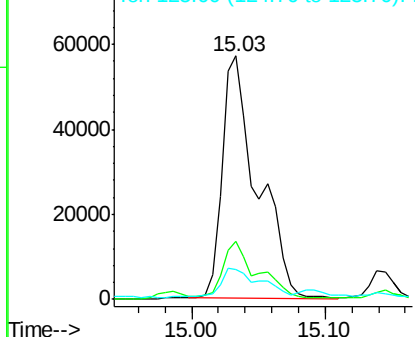
#87  
Benzo(b)fluoranthene  
Concen: 6.359 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
5

Tgt Ion:252 Resp: 104721  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.0 25.6  
125 12.4 9.0 13.6

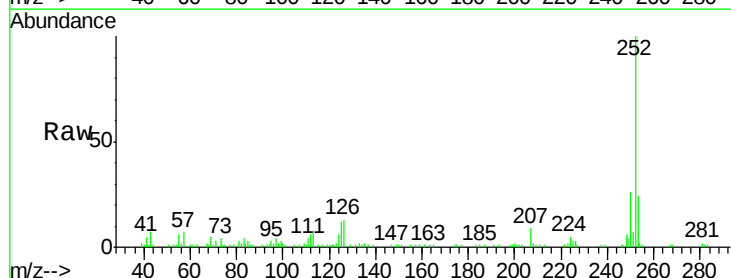


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

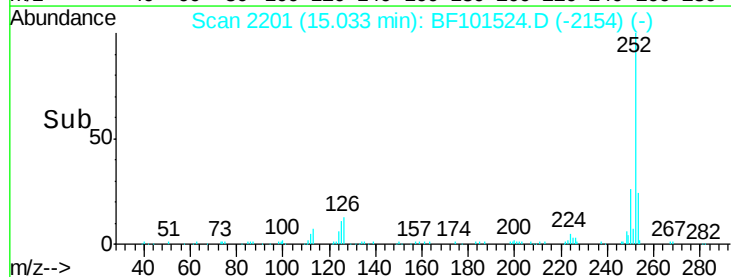
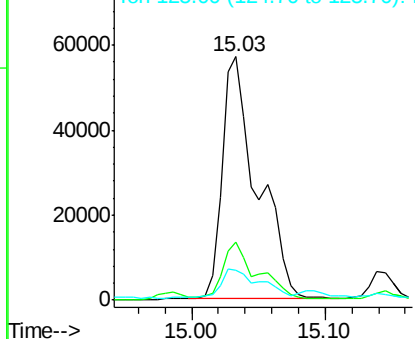


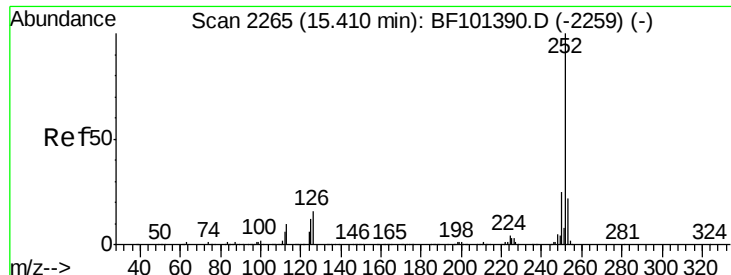
#88  
Benzo(k)fluoranthene  
Concen: 6.517 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. -0.02 min  
Lab File: BF101524.D  
Acq: 19 Dec 2017 16:05

Tgt Ion:252 Resp: 104346  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.9 26.9  
125 12.4 10.2 15.2



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: 3.436 ng

RT: 15.40 min Scan# 2263

Delta R.T. 0.01 min

Lab File: BF101524.D

Acq: 19 Dec 2017 16:05

Instrument :

BNA\_F

ClientSampleId :

5

Tgt Ion:252 Resp: 52161

Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

125 13.2 9.8 14.6

