

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
 Data File : BF114819.D  
 Acq On : 5 Jun 2019 14:24  
 Operator : HP/JU  
 Sample : K3173-01 2X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 06 04:58:27 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 04 16:57:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.67  | 152  | 497777   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.95  | 136  | 1826352  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.70  | 164  | 854748   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.17 | 188  | 1523403  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.80 | 240  | 836794   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.20 | 264  | 689562   | 20.00 | ng    | 0.03     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.27  | 112 | 1118123 | 39.25 | ng | 0.00 |
| 7) Phenol-d6                | 6.30  | 99  | 2424217 | 69.94 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.23  | 82  | 1562828 | 52.68 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.47 | 330 | 115902  | 12.58 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.03  | 172 | 2793329 | 61.22 | ng | 0.00 |
| 79) Terphenyl-d14           | 12.76 | 244 | 2654670 | 61.70 | ng | 0.00 |

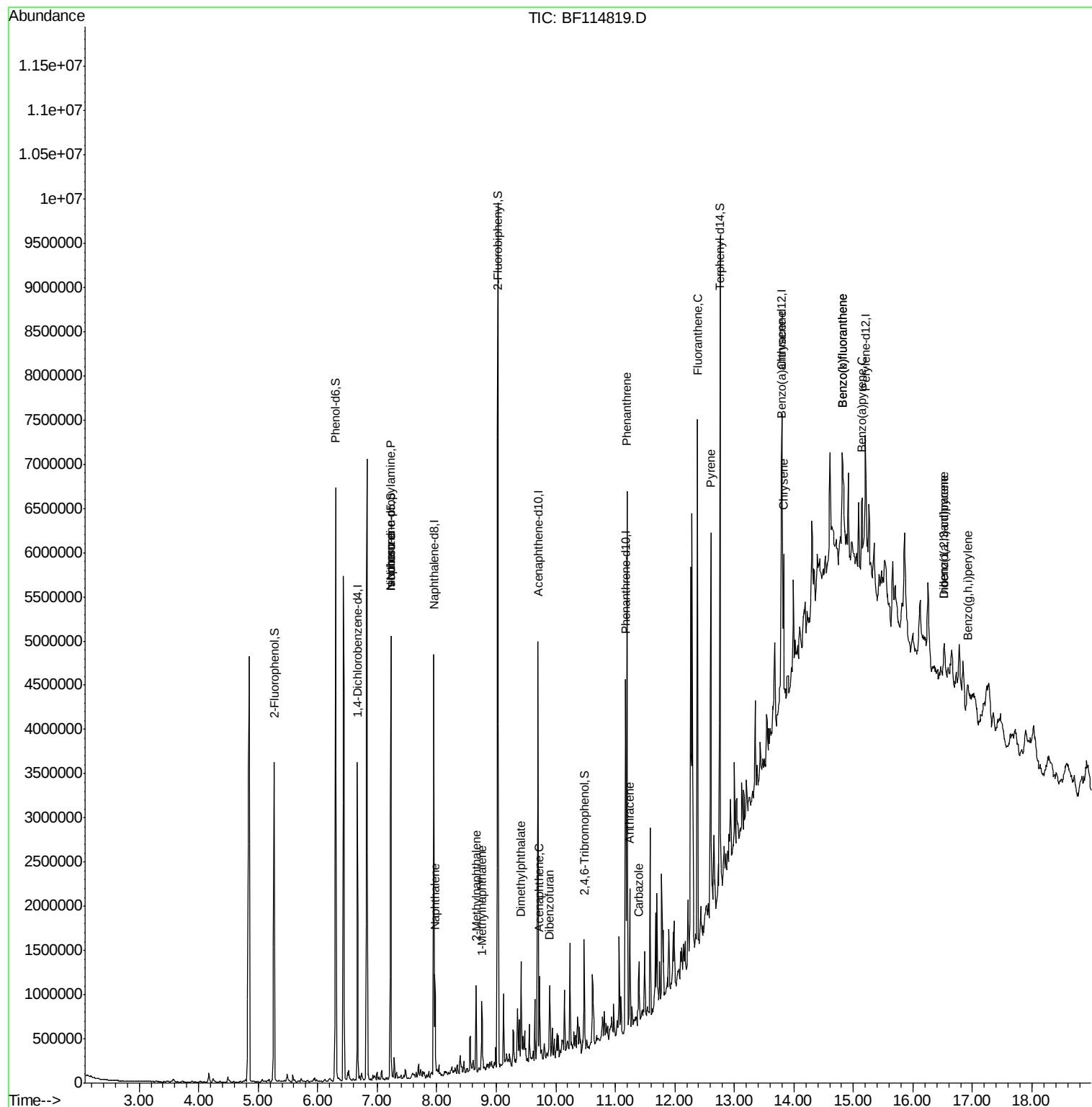
|                                |       |     |         |        |     |      |
|--------------------------------|-------|-----|---------|--------|-----|------|
| Target Compounds               |       |     |         | Qvalue |     |      |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70  | 213049  | 9.285  | ng  | # 78 |
| 25) Isophorone                 | 7.23  | 82  | 1533291 | 26.142 | ng  | # 61 |
| 31) Naphthalene                | 7.97  | 128 | 461115  | 5.608  | ng  | 96   |
| 37) 2-Methylnaphthalene        | 8.66  | 142 | 248907  | 4.364  | ng  | 97   |
| 38) 1-Methylnaphthalene        | 8.76  | 142 | 188334  | 3.482  | ng  | 99   |
| 50) Dimethylphthalate          | 9.42  | 163 | 386864  | 6.197  | ng  | 99   |
| 52) Acenaphthene               | 9.73  | 154 | 163446  | 3.196  | ng  | 97   |
| 55) Dibenzofuran               | 9.90  | 168 | 222034  | 3.123  | ng  | 95   |
| 58) Fluorene                   | 10.24 | 166 | 284140  | Below  | Cal | 98   |
| 71) Phenanthrene               | 11.20 | 178 | 2153868 | 29.616 | ng  | 99   |
| 72) Anthracene                 | 11.24 | 178 | 501797  | 6.556  | ng  | 95   |
| 73) Carbazole                  | 11.40 | 167 | 280266  | 4.272  | ng  | 96   |
| 75) Fluoranthene               | 12.38 | 202 | 2109546 | 27.870 | ng  | 98   |
| 78) Pyrene                     | 12.60 | 202 | 1913433 | 26.358 | ng  | 98   |
| 81) Benzo(a)anthracene         | 13.79 | 228 | 721384  | 11.187 | ng  | 98   |
| 83) Chrysene                   | 13.83 | 228 | 767240  | 12.231 | ng  | 96   |
| 86) Indeno(1,2,3-cd)pyrene     | 16.53 | 276 | 264192  | 3.691  | ng  | 95   |
| 88) Benzo(b)fluoranthene       | 14.82 | 252 | 874452  | 19.920 | ng  | # 86 |
| 89) Benzo(k)fluoranthene       | 14.82 | 252 | 874452  | 23.457 | ng  | # 87 |
| 90) Benzo(a)pyrene             | 15.14 | 252 | 437104  | 11.504 | ng  | # 86 |
| 91) Dibenzo(a,h)anthracene     | 16.53 | 278 | 77569   | 2.156  | ng  | # 32 |
| 92) Benzo(g,h,i)perylene       | 16.92 | 276 | 251201  | 6.942  | ng  | # 91 |

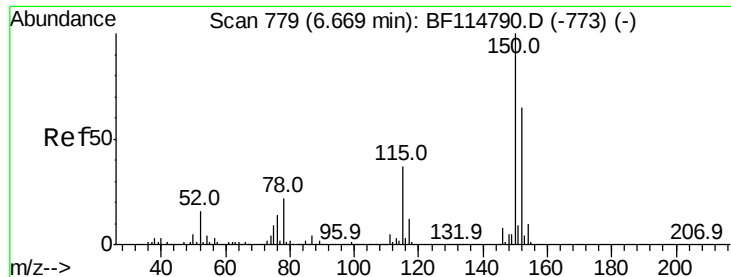
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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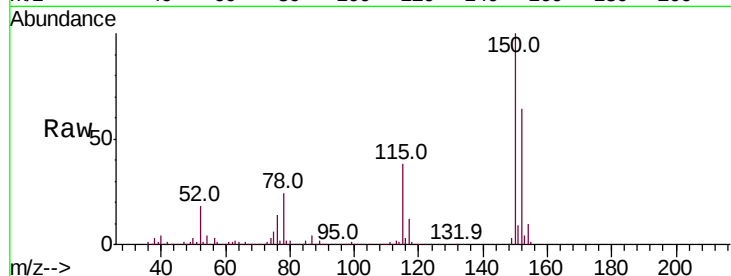


#1

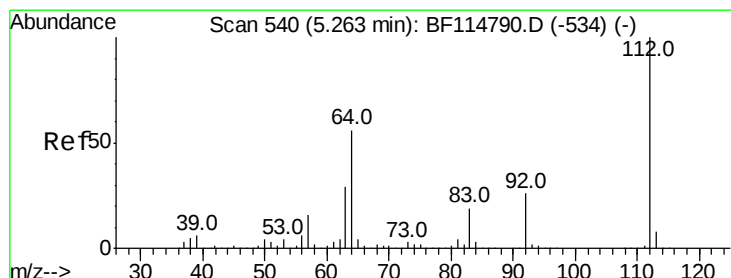
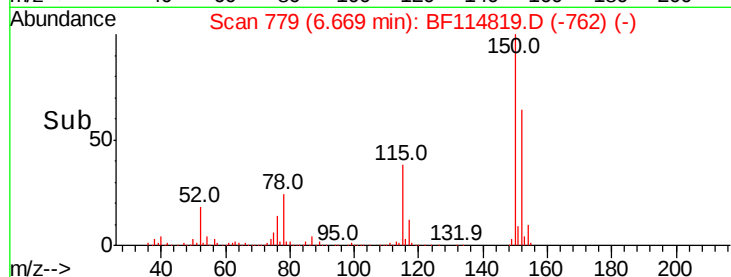
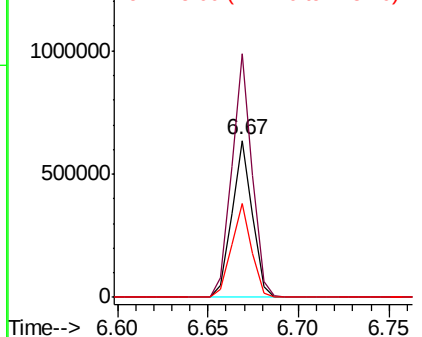
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.67 min Scan# 779  
Delta R.T. -0.00 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 497777  
Ion Ratio Lower Upper  
152 100  
150 155.1 124.0 186.0  
115 59.7 46.3 69.5



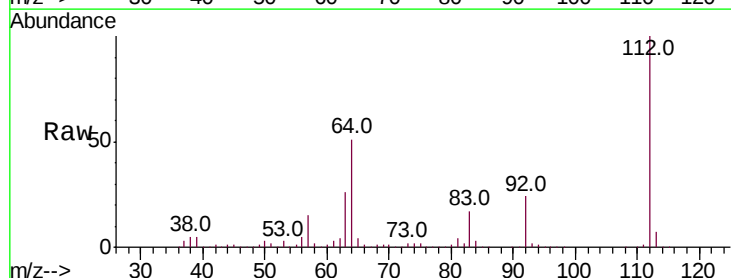
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



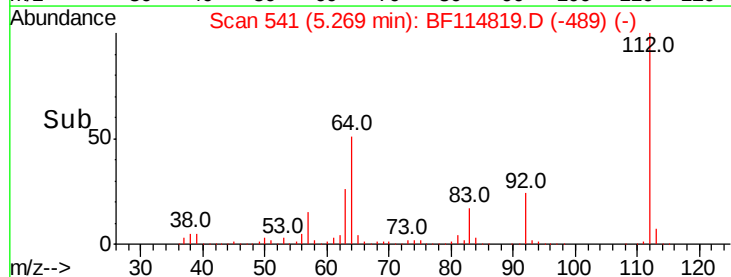
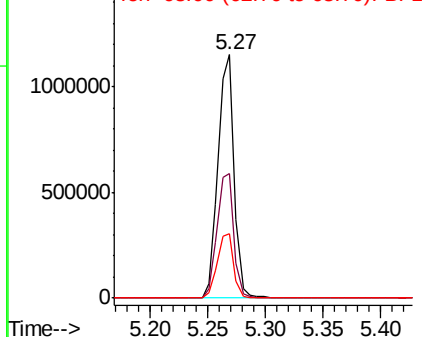
#5

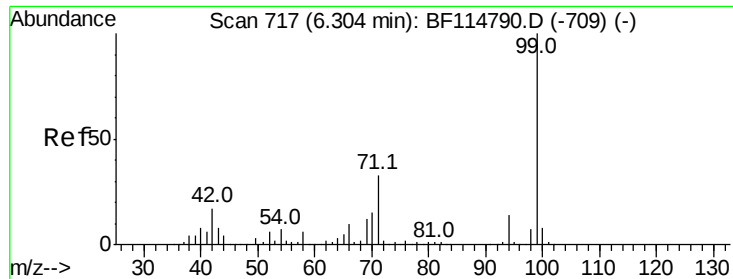
2-Fluorophenol  
Concen: 39.250 ng  
RT: 5.27 min Scan# 541  
Delta R.T. 0.01 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Tgt Ion:112 Resp: 1118123  
Ion Ratio Lower Upper  
112 100  
64 51.1 44.6 66.8  
63 26.3 23.0 34.4



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 69.935 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampled :

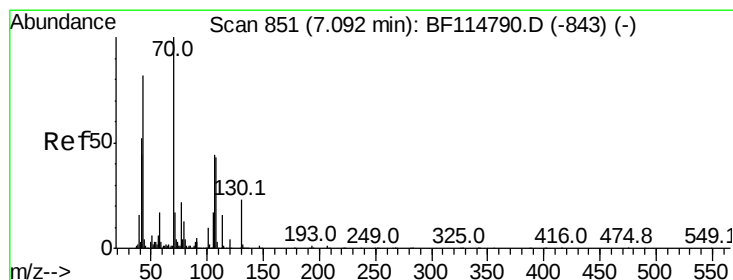
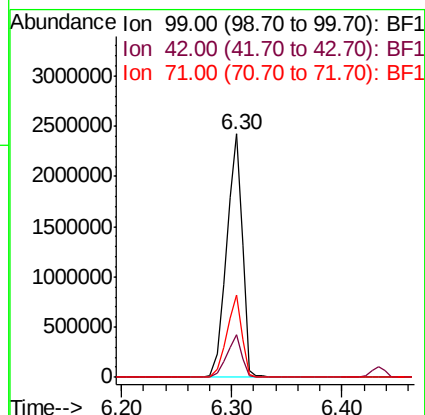
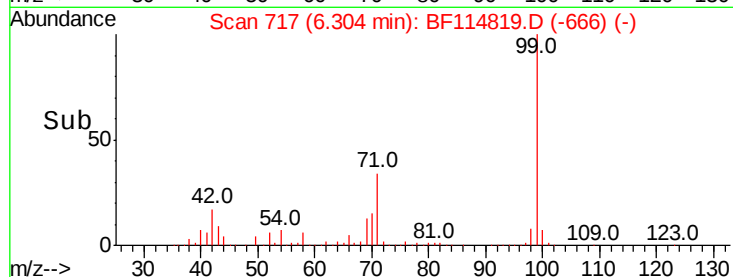
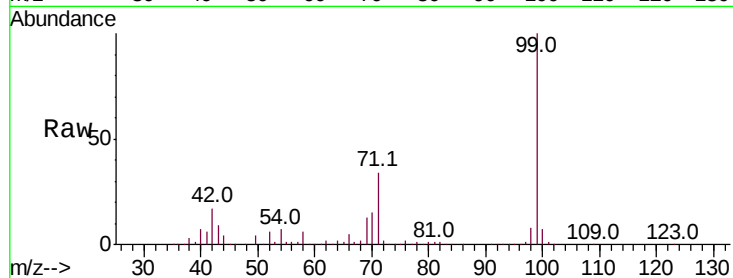
Tot Ion: 99 Resp: 2424217

Ion Ratio Lower Upper

99 100

42 17.3 13.3 19.9

71 33.8 26.3 39.5



#19

n-Nitroso-di-n-propylamine

Concen: 9.285 ng

RT: 7.23 min Scan# 874

Delta R.T. 0.14 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Tgt Ion: 70 Resp: 213049

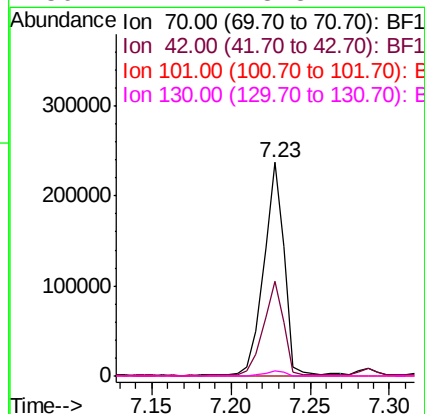
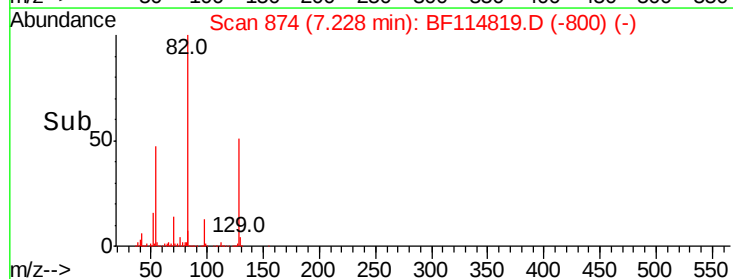
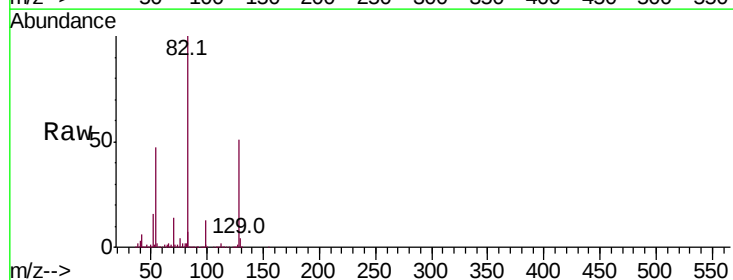
Ion Ratio Lower Upper

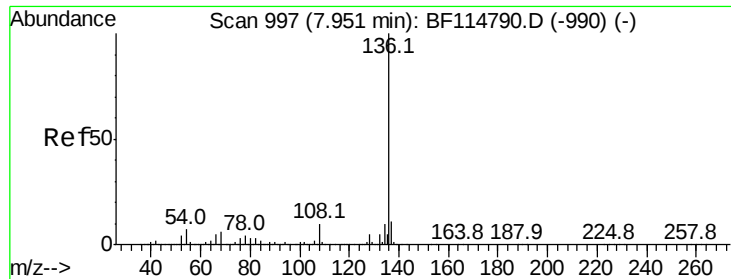
70 100

42 44.2 41.8 62.8

101 0.0 8.2 12.4#

130 2.4 18.5 27.7#

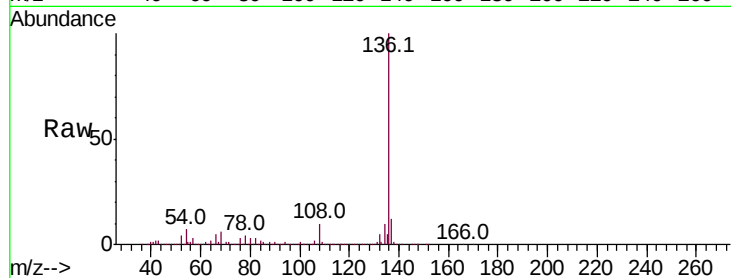




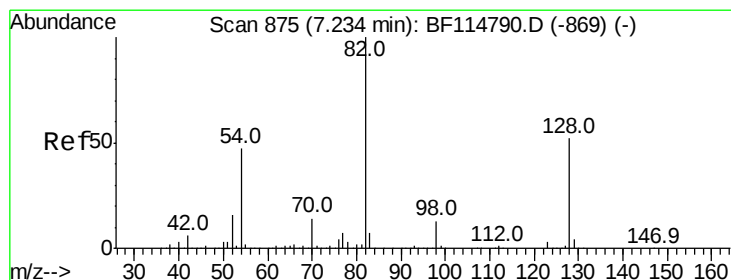
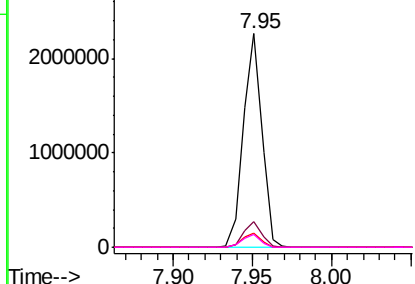
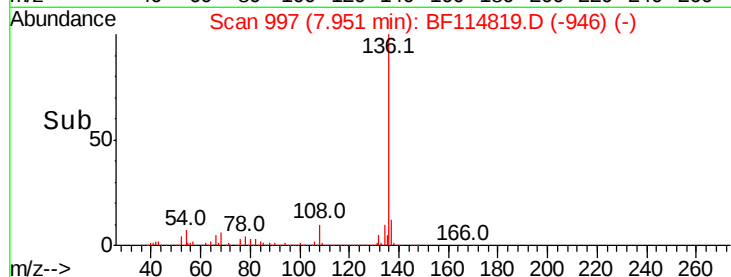
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.95 min Scan# 997  
Delta R.T. -0.00 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion: | 136   | Resp: | 1826352 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.8  | 9.1   | 13.7    |
| 54       | 6.9   | 5.4   | 8.0     |
| 68       | 6.1   | 4.6   | 6.8     |

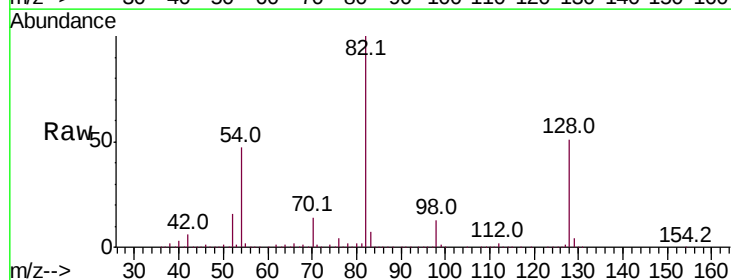


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

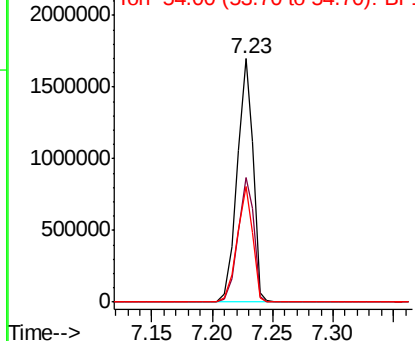
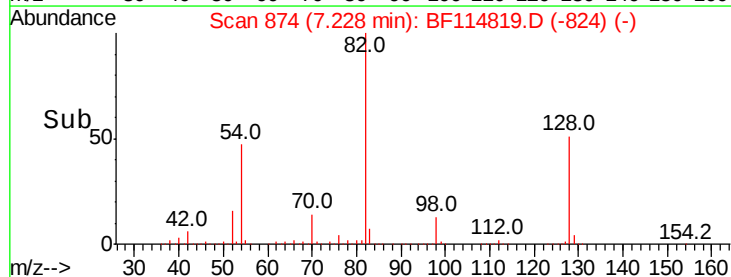


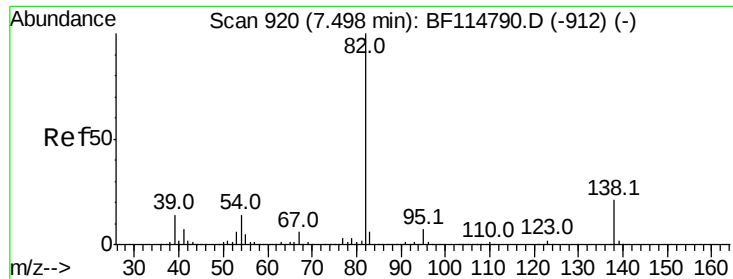
#23  
Nitrobenzene-d5  
Concen: 52.676 ng  
RT: 7.23 min Scan# 874  
Delta R.T. -0.01 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

| Tgt Ion: | 82    | Resp: | 1562828 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 51.1  | 41.8  | 62.6    |
| 54       | 47.4  | 37.9  | 56.9    |



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





#25

Isophorone

Concen: 26.142 ng

RT: 7.23 min Scan# 874

Delta R.T. -0.27 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampled :

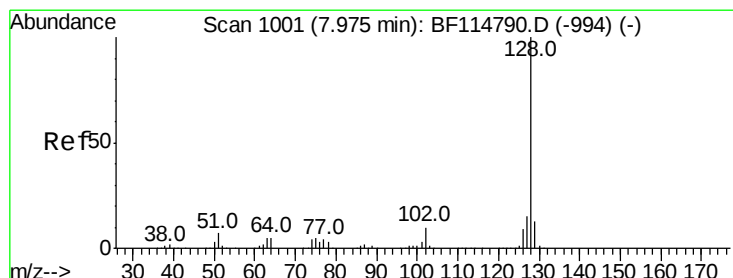
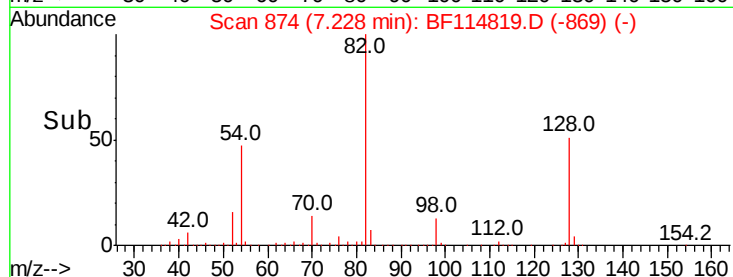
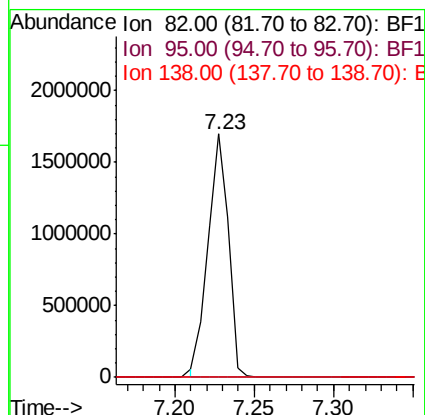
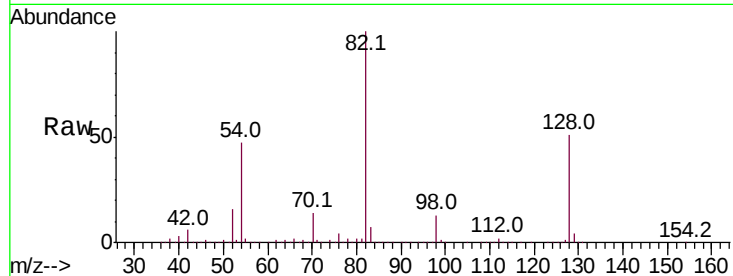
Tot Ion: 82 Resp: 1533291

Ion Ratio Lower Upper

82 100

95 0.1 5.8 8.8#

138 0.0 16.9 25.3#



#31

Naphthalene

Concen: 5.608 ng

RT: 7.97 min Scan# 1000

Delta R.T. -0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

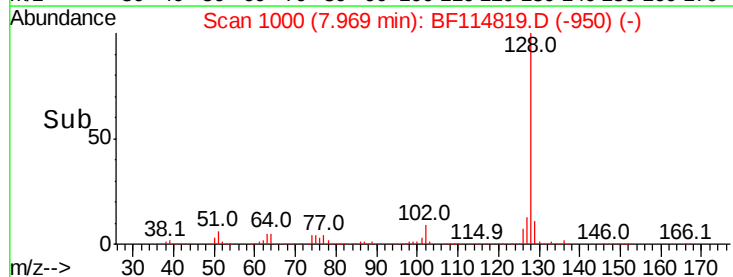
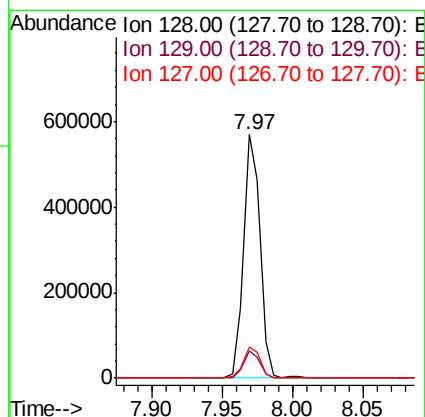
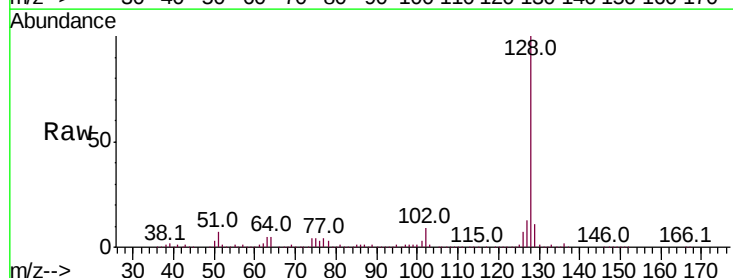
Tgt Ion:128 Resp: 461115

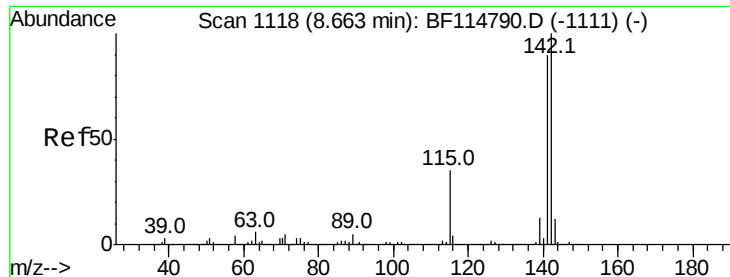
Ion Ratio Lower Upper

128 100

129 11.2 10.0 15.0

127 13.0 12.2 18.2





#37

2-Methylnaphthalene

Concen: 4.364 ng

RT: 8.66 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

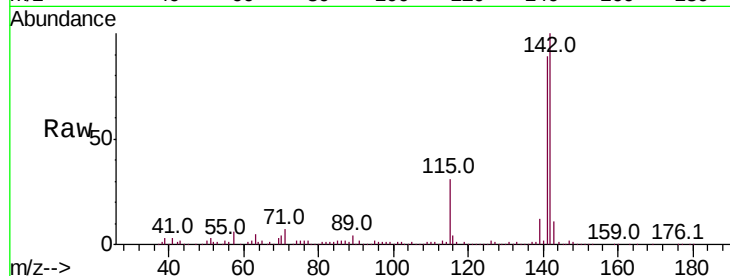
Tot Ion:142 Resp: 248907

Ion Ratio Lower Upper

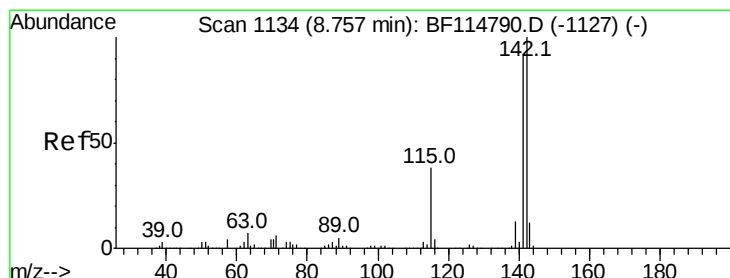
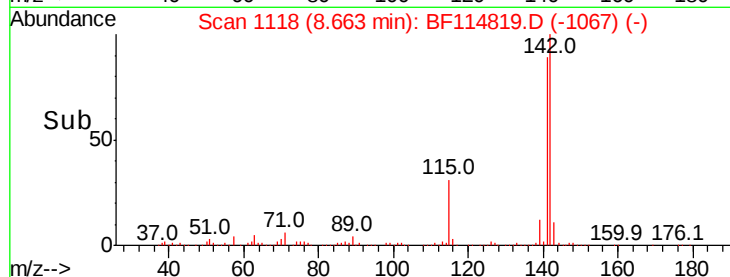
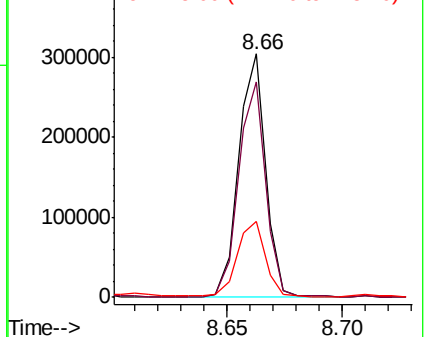
142 100

141 88.7 71.6 107.4

115 31.2 28.2 42.4



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 3.482 ng

RT: 8.76 min Scan# 1134

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

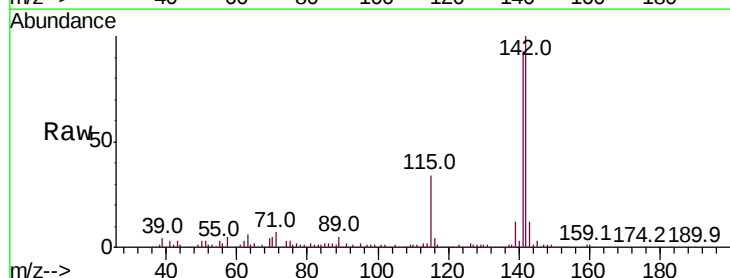
Tgt Ion:142 Resp: 188334

Ion Ratio Lower Upper

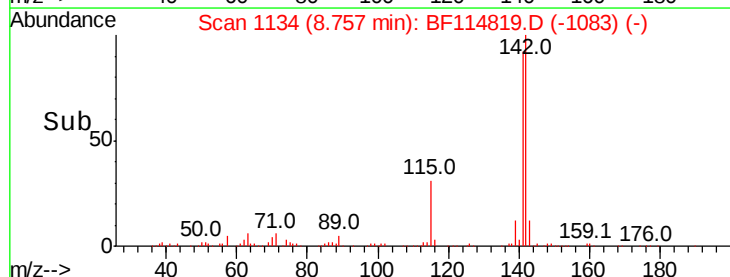
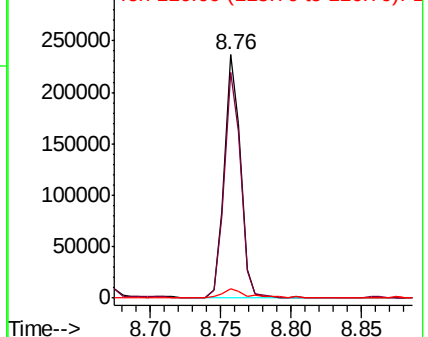
142 100

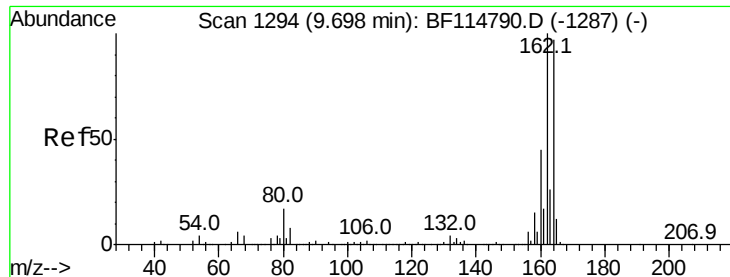
141 92.7 73.8 110.6

116 3.7 3.3 4.9



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

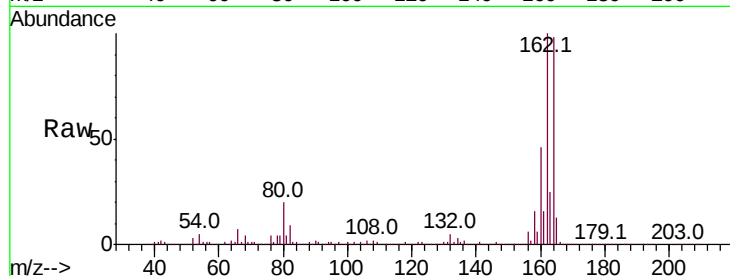




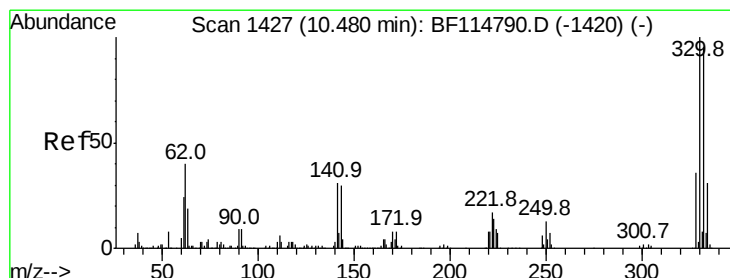
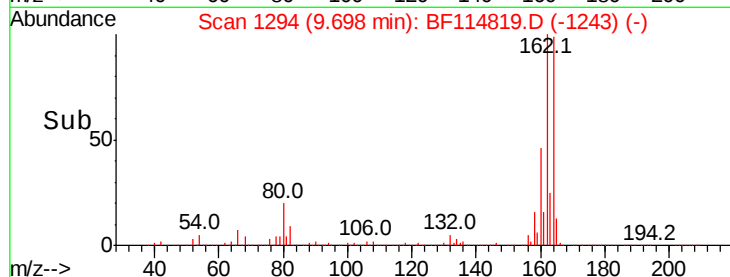
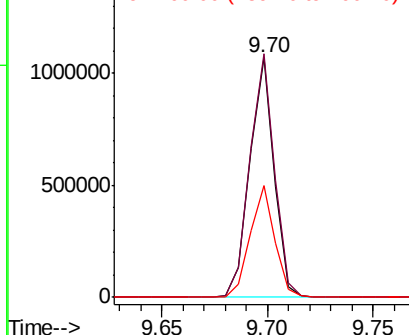
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.70 min Scan# 1294  
 Delta R.T. -0.00 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:164 Resp: 854748  
 Ion Ratio Lower Upper  
 164 100  
 162 101.7 82.3 123.5  
 160 46.5 36.7 55.1

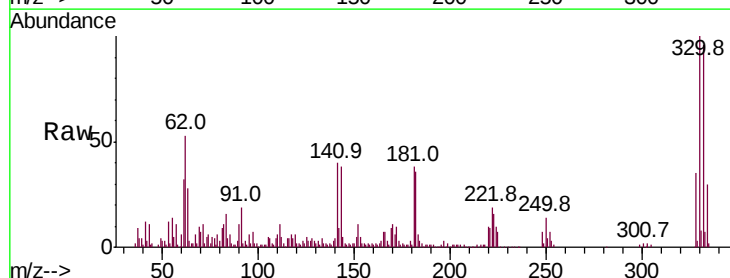


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

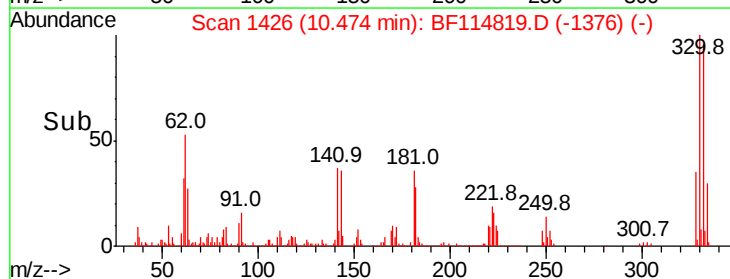
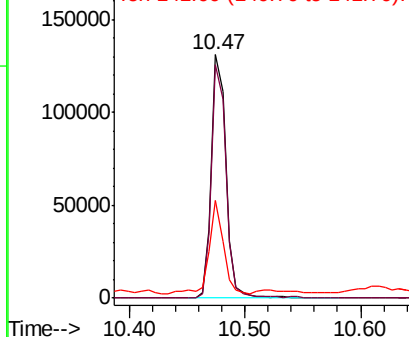


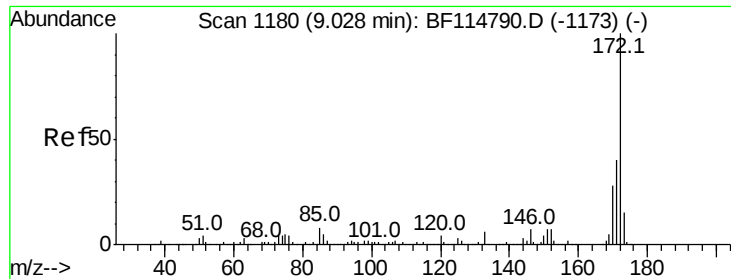
#42  
 2,4,6-Tribromophenol  
 Concen: 12.583 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. -0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

Tgt Ion:330 Resp: 115902  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 77.3 115.9  
 141 36.0 26.2 39.4



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

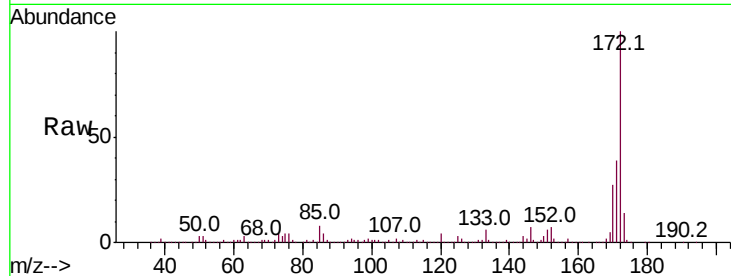




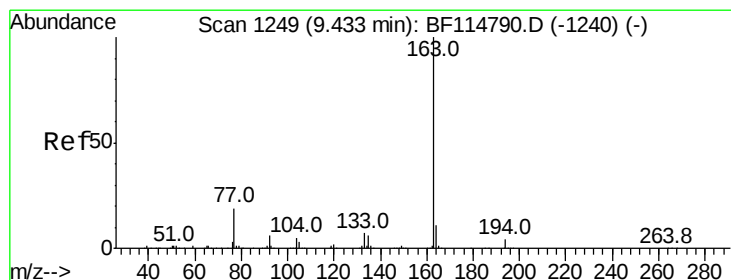
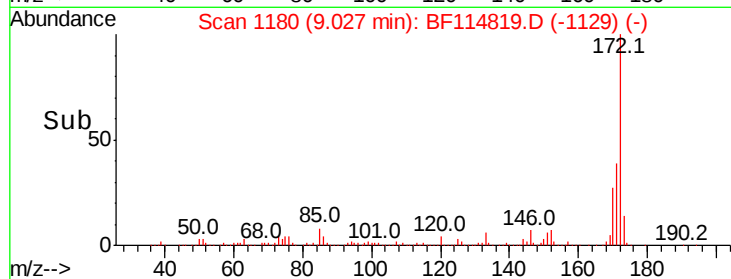
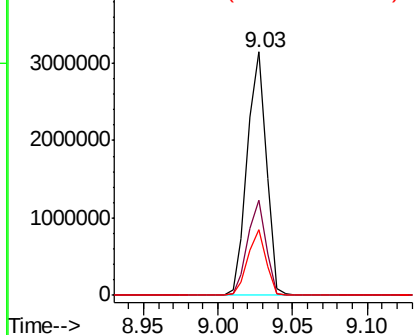
#45  
2-Fluorobiphenyl  
Concen: 61.219 ng  
RT: 9.03 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 2793329  
Ion Ratio Lower Upper  
172 100  
171 39.3 32.3 48.5  
170 27.2 22.4 33.6

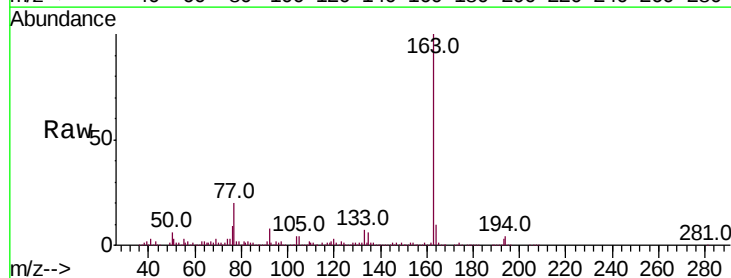


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

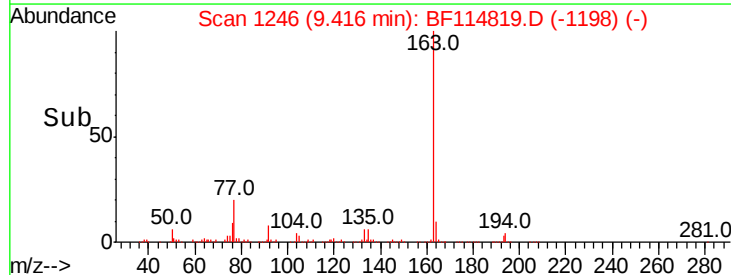
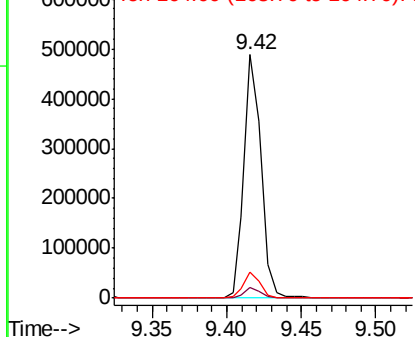


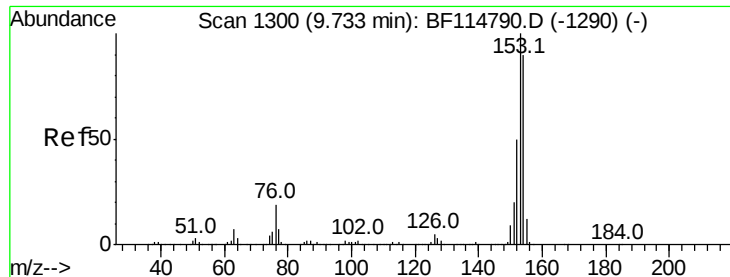
#50  
Dimethylphthalate  
Concen: 6.197 ng  
RT: 9.42 min Scan# 1246  
Delta R.T. -0.02 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Tgt Ion:163 Resp: 386864  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.4 5.2  
164 10.4 8.6 13.0



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





#52

Acenaphthene

Concen: 3.196 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

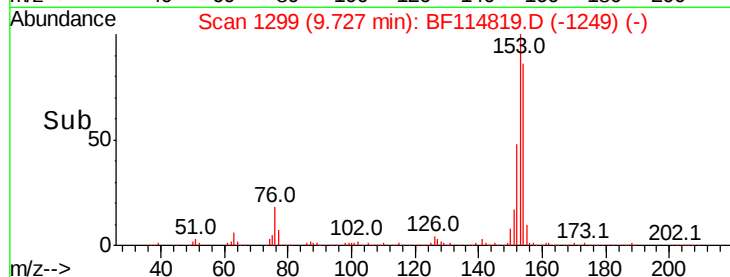
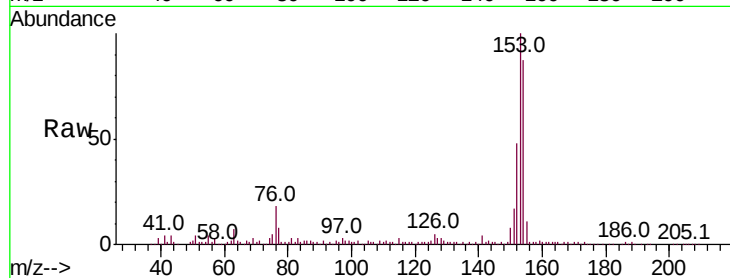
Tot Ion:154 Resp: 163446

Ion Ratio Lower Upper

154 100

153 115.6 88.5 132.7

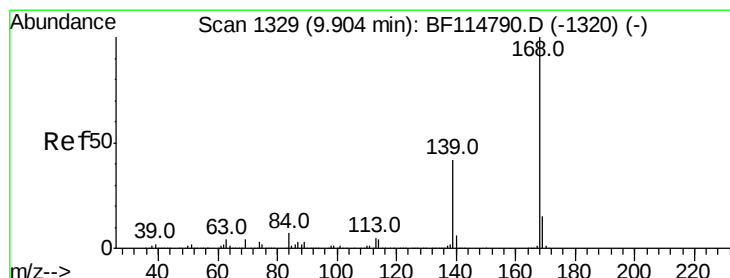
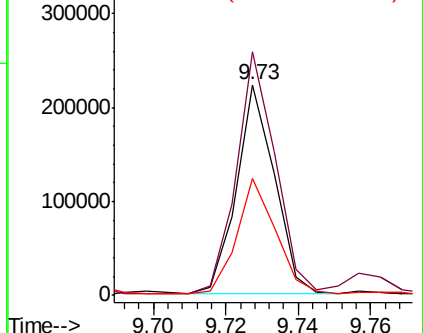
152 55.4 44.1 66.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.123 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

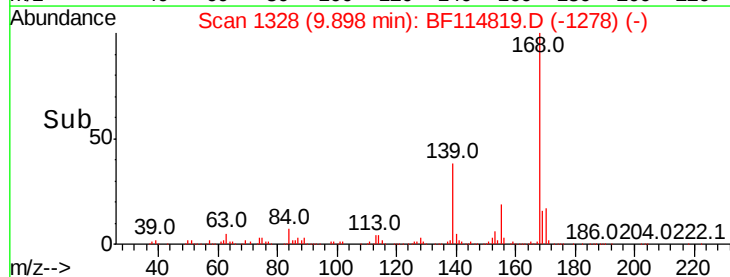
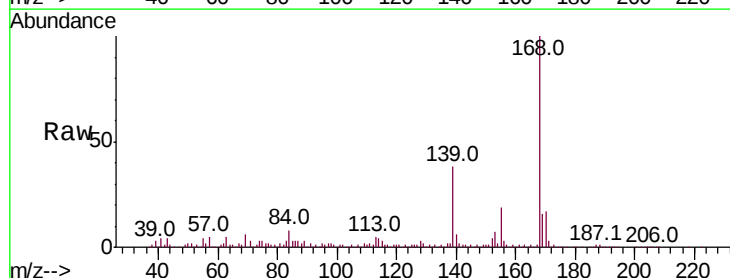
Tgt Ion:168 Resp: 222034

Ion Ratio Lower Upper

168 100

139 38.3 33.8 50.6

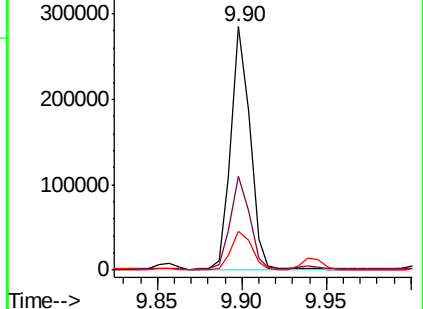
169 15.9 11.9 17.9

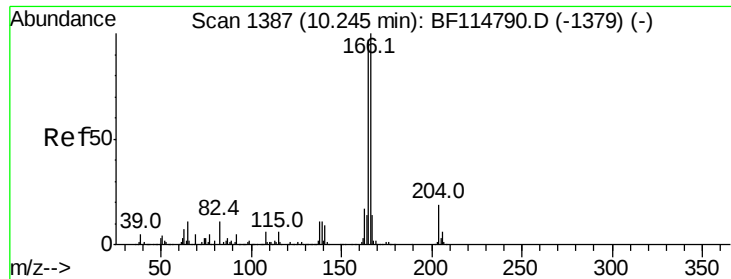


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

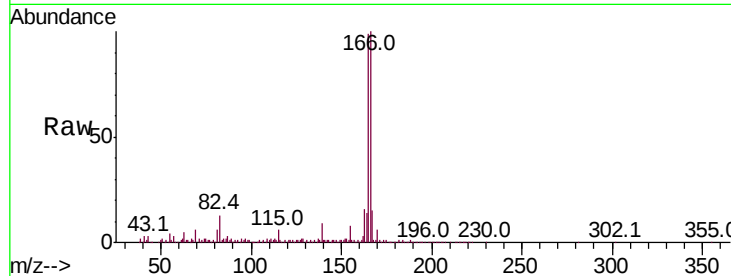




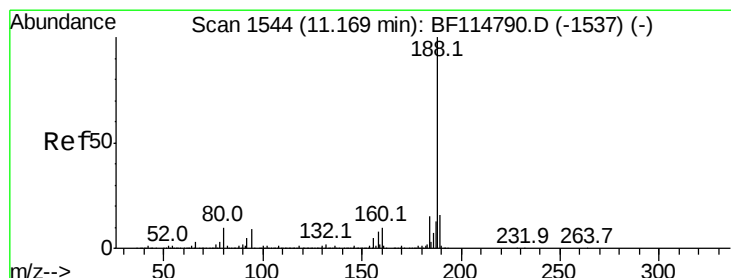
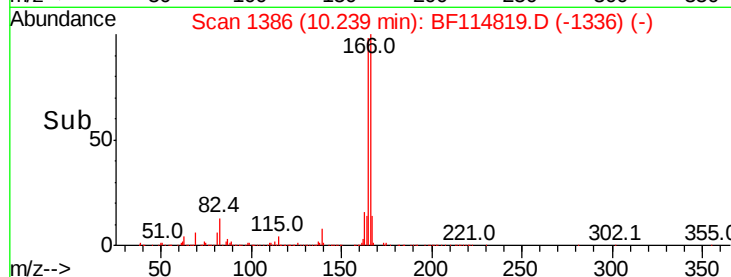
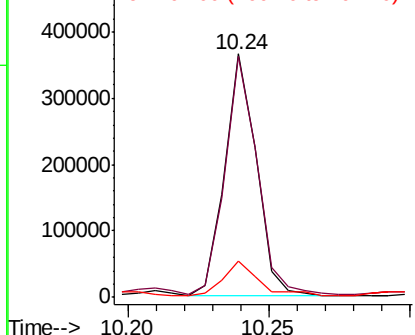
#58  
 Fluorene  
 Concen: Below Cal  
 RT: 10.24 min Scan# 1386  
 Delta R.T. -0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.9  | 77.9  | 116.9 |
| 167     | 14.8  | 11.3  | 16.9  |

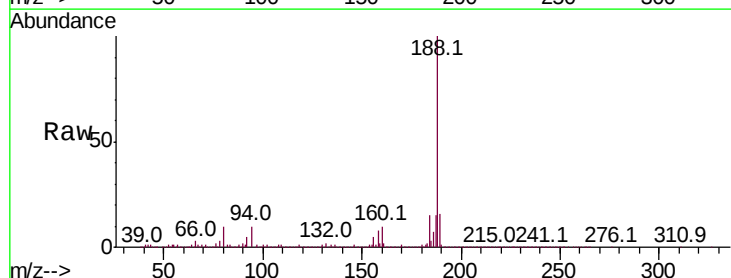


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

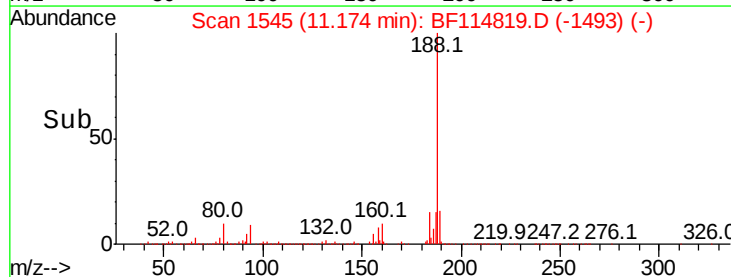
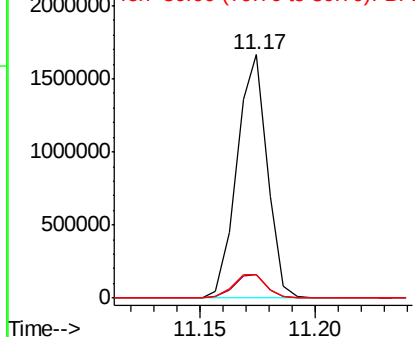


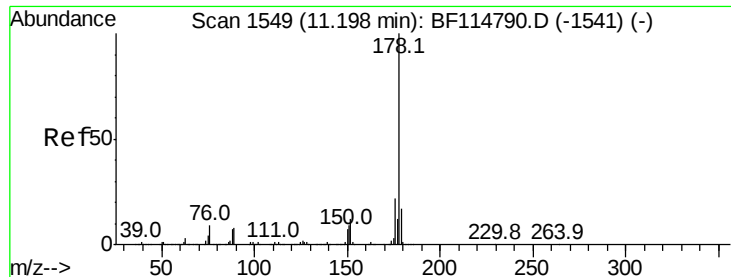
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.17 min Scan# 1545  
 Delta R.T. 0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 7.6   | 11.4  |
| 80      | 9.8   | 8.3   | 12.5  |



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

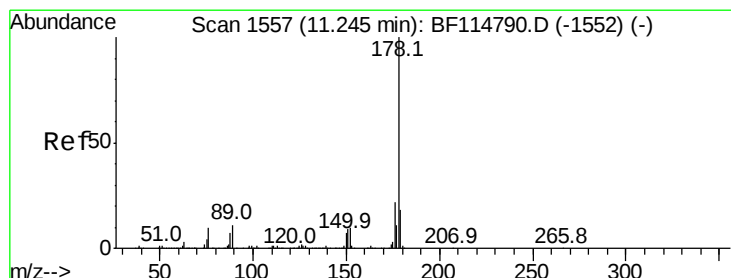
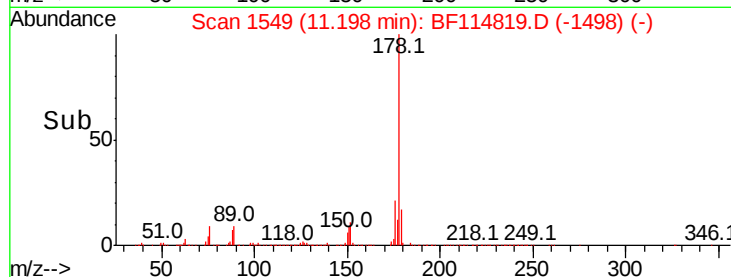
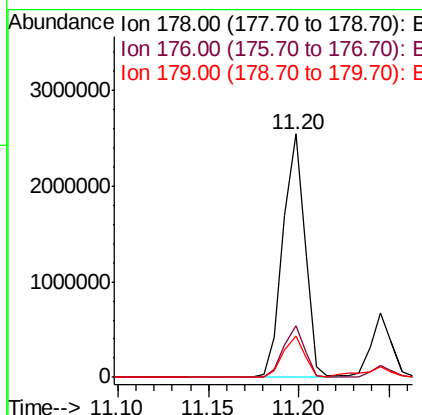
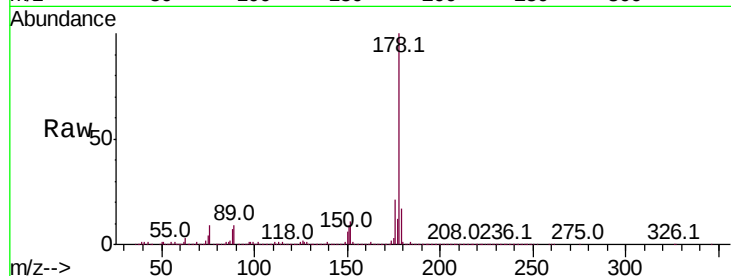




#71  
Phenanthrene  
Concen: 29.616 ng  
RT: 11.20 min Scan# 1549  
Delta R.T. -0.00 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

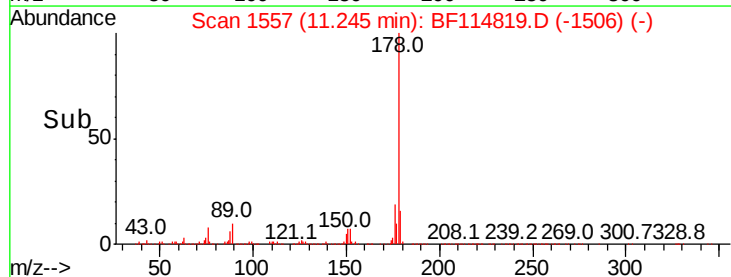
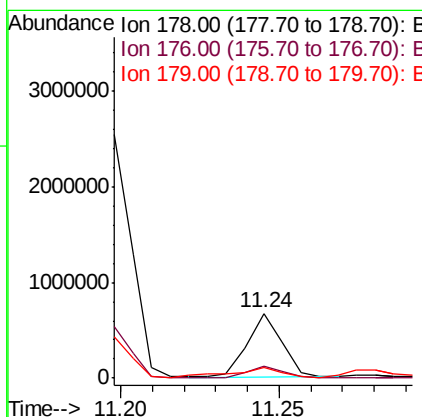
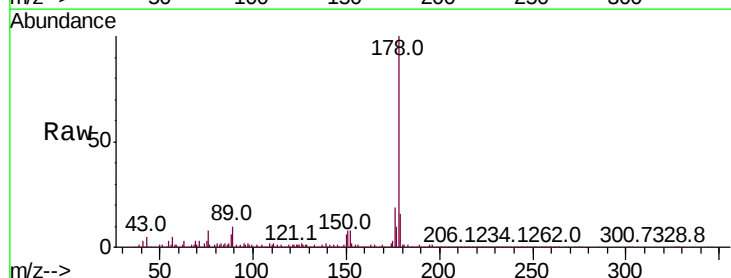
Instrument :  
BNA\_F  
ClientSampleId :

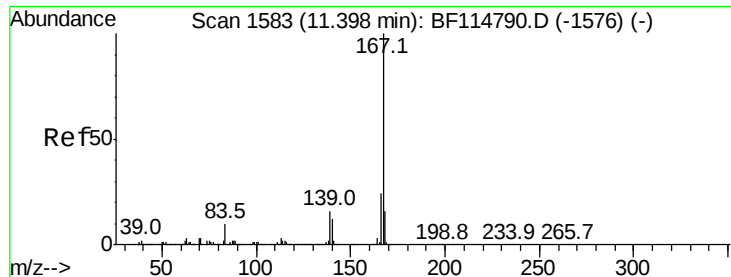
Tot Ion:178 Resp: 2153868  
Ion Ratio Lower Upper  
178 100  
176 21.4 17.7 26.5  
179 16.9 13.7 20.5



#72  
Anthracene  
Concen: 6.556 ng  
RT: 11.24 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

Tgt Ion:178 Resp: 501797  
Ion Ratio Lower Upper  
178 100  
176 19.1 17.4 26.0  
179 16.4 14.2 21.4

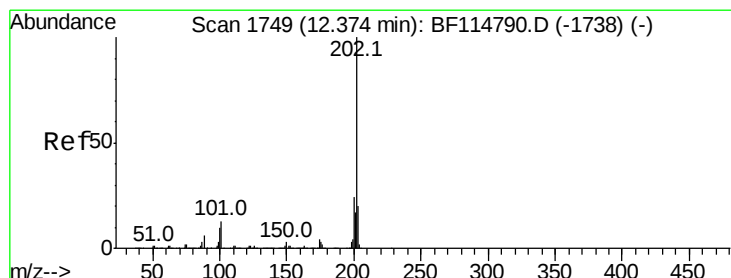
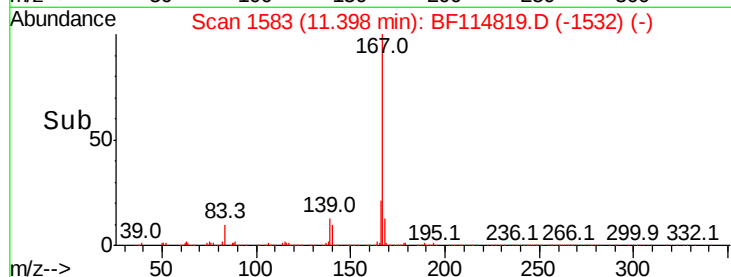
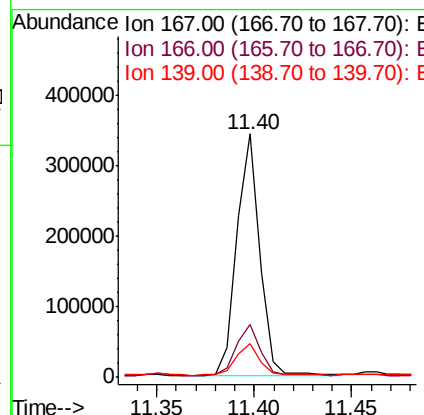
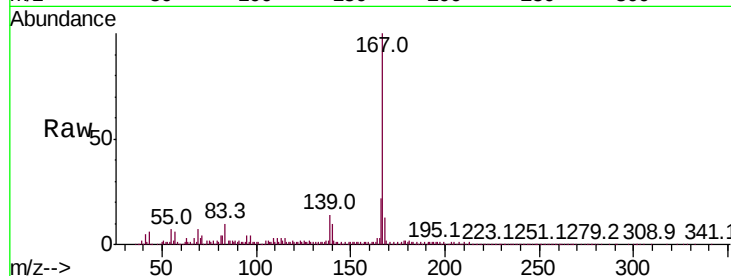




#73  
 Carbazole  
 Concen: 4.272 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

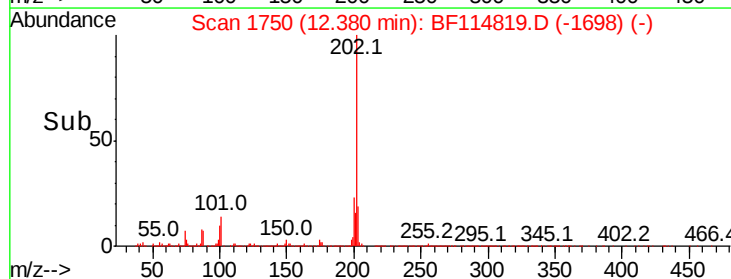
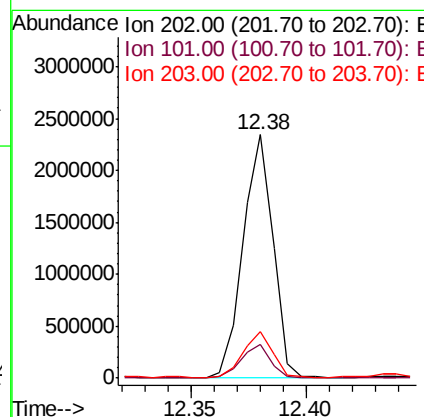
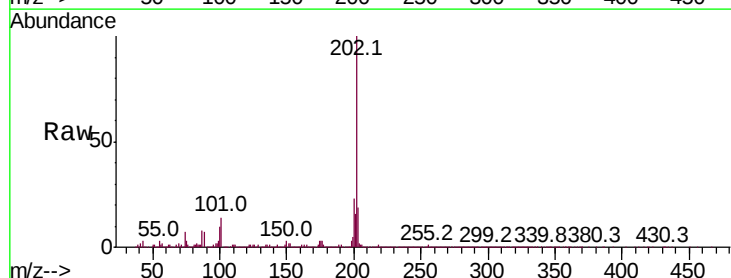
Instrument :  
 BNA\_F  
 ClientSampleId :

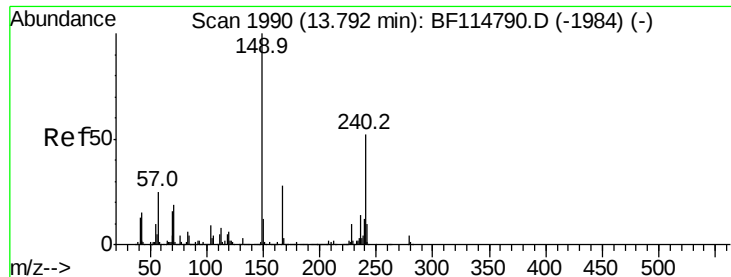
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 19.1  | 28.7  |
| 139     | 13.6  | 12.4  | 18.6  |



#75  
 Fluoranthene  
 Concen: 27.870 ng  
 RT: 12.38 min Scan# 1750  
 Delta R.T. 0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.7  | 0.0   | 32.8  |
| 203     | 19.0  | 0.2   | 40.2  |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1991

Delta R.T. 0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampled :

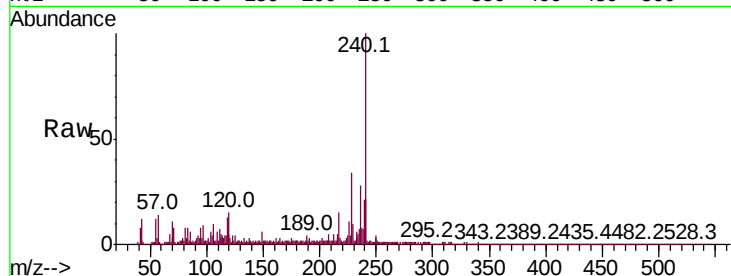
Tot Ion:240 Resp: 836794

Ion Ratio Lower Upper

240 100

120 14.6 9.0 13.4#

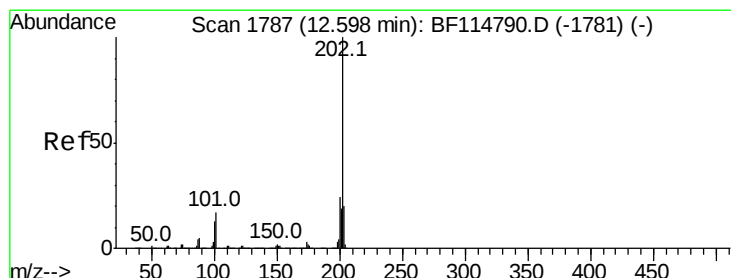
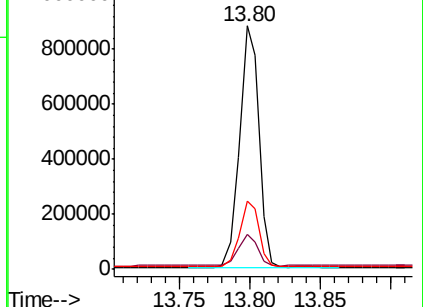
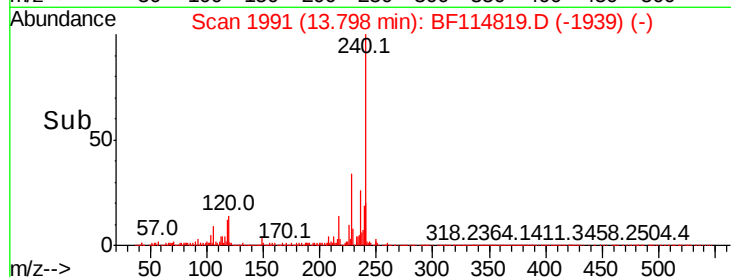
236 27.9 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 26.358 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

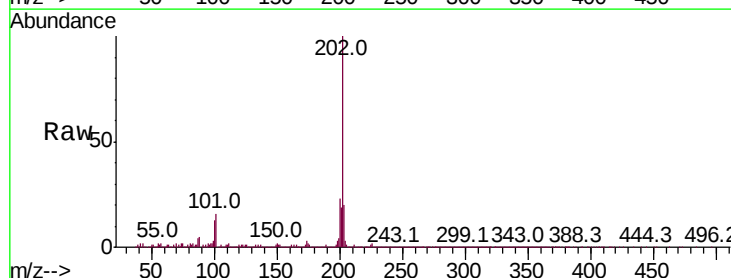
Tgt Ion:202 Resp: 1913433

Ion Ratio Lower Upper

202 100

200 22.7 19.2 28.8

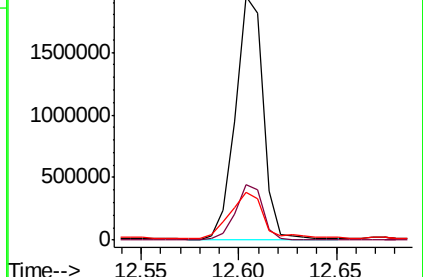
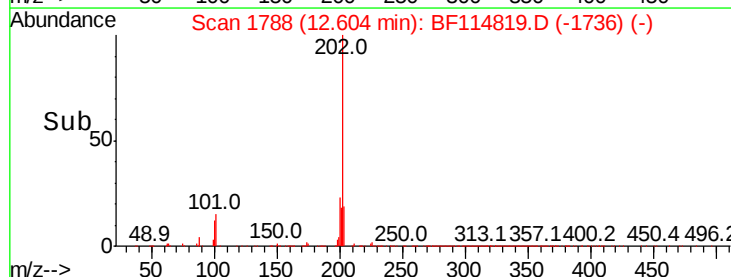
203 19.8 15.9 23.9

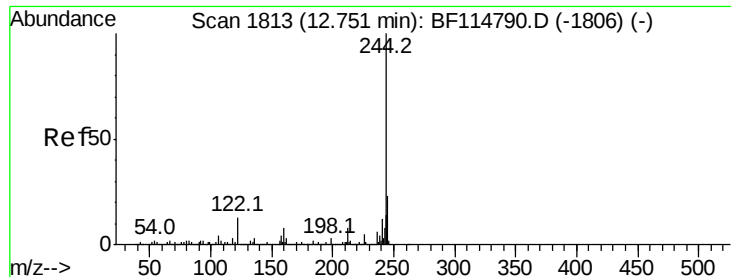


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



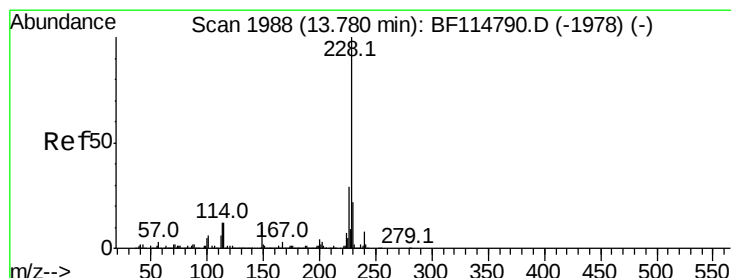
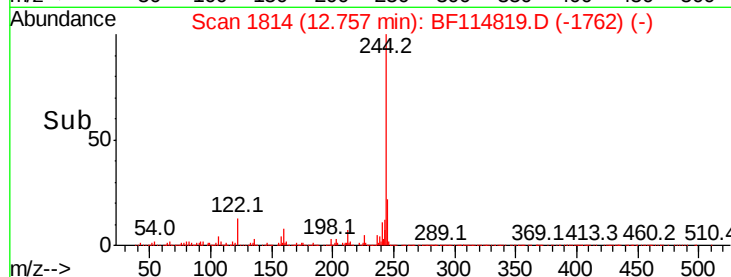
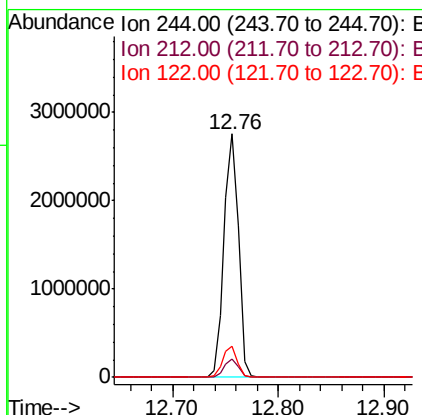
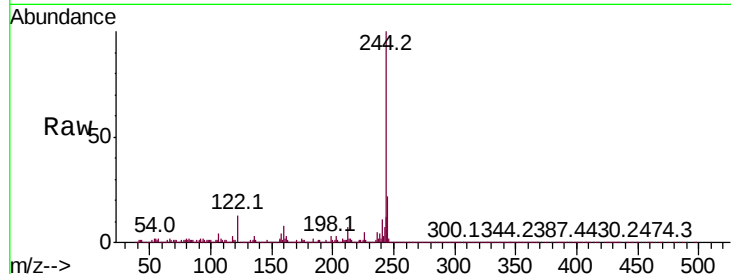


#79  
 Terphenyl-d14  
 Concen: 61.696 ng  
 RT: 12.76 min Scan# 1814  
 Delta R.T. 0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 2654670  

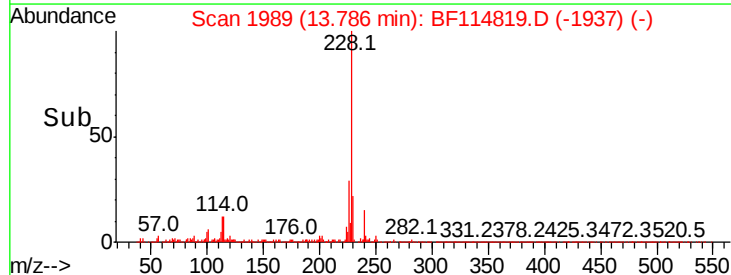
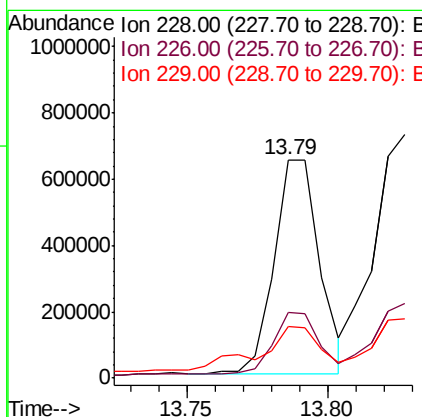
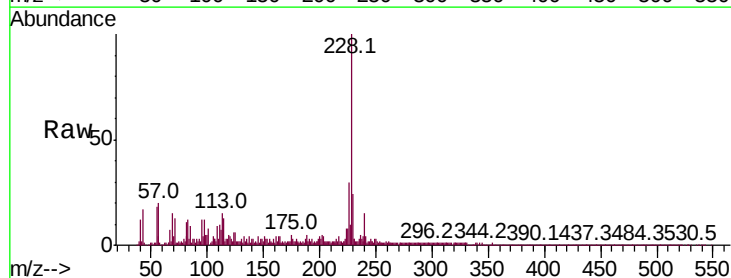
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 6.5   | 9.7   |
| 122 | 13.0  | 10.5  | 15.7  |

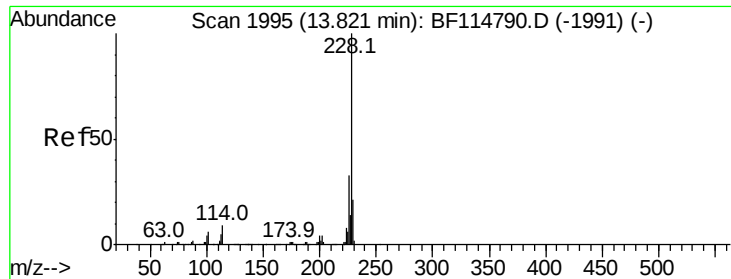


#81  
 Benzo(a)anthracene  
 Concen: 11.187 ng  
 RT: 13.79 min Scan# 1989  
 Delta R.T. 0.01 min  
 Lab File: BF114819.D  
 Acq: 5 Jun 2019 14:24

Tgt Ion:228 Resp: 721384  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.9  | 23.4  | 35.2  |
| 229 | 23.6  | 17.4  | 26.0  |





#83

Chrysene

Concen: 12.231 ng

RT: 13.83 min Scan# 1996

Delta R.T. 0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

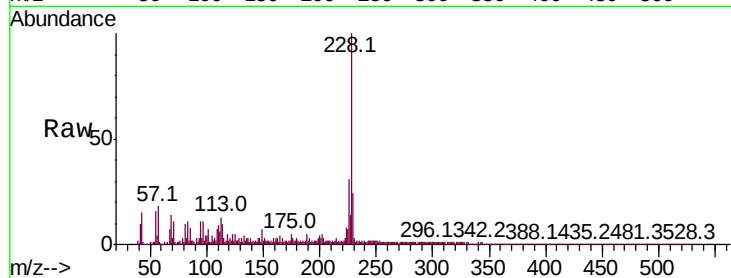
Tot Ion:228 Resp: 767240

Ion Ratio Lower Upper

228 100

226 30.7 26.0 39.0

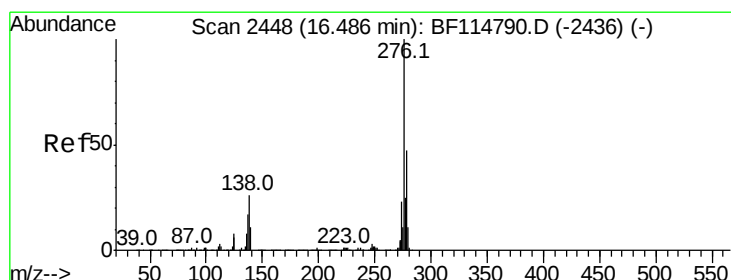
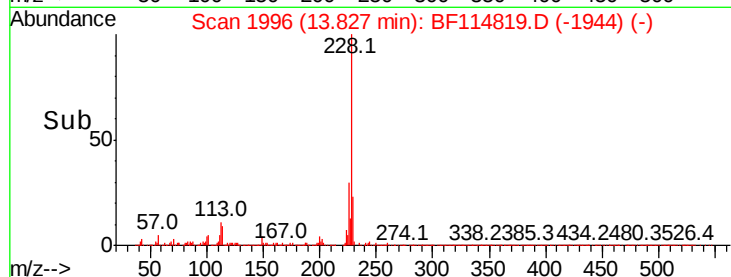
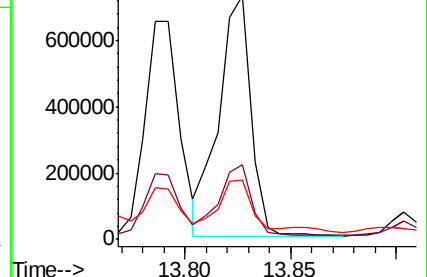
229 24.3 17.1 25.7



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

Indeno(1,2,3-cd)pyrene

Concen: 3.691 ng

RT: 16.53 min Scan# 2455

Delta R.T. 0.04 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

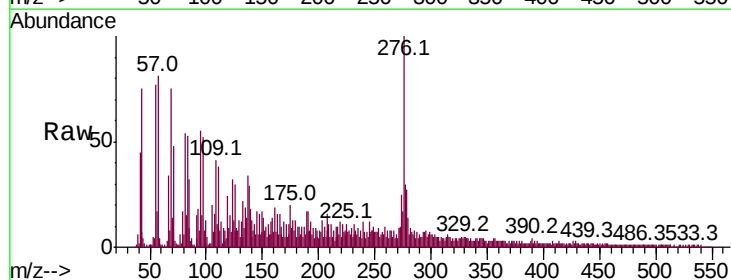
Tgt Ion:276 Resp: 264192

Ion Ratio Lower Upper

276 100

138 25.7 22.2 33.4

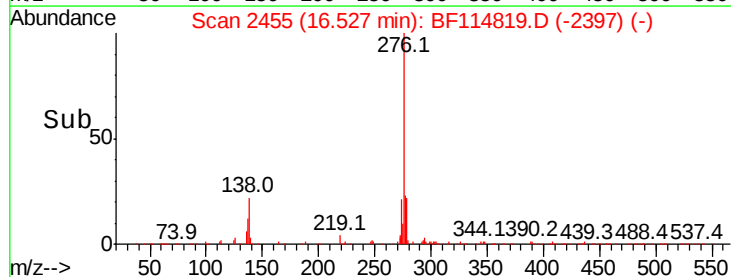
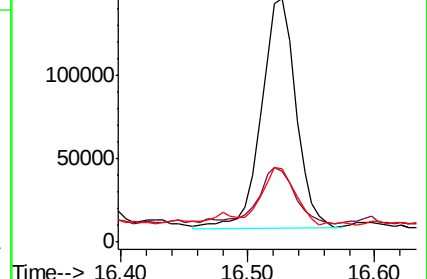
277 22.6 20.6 30.8

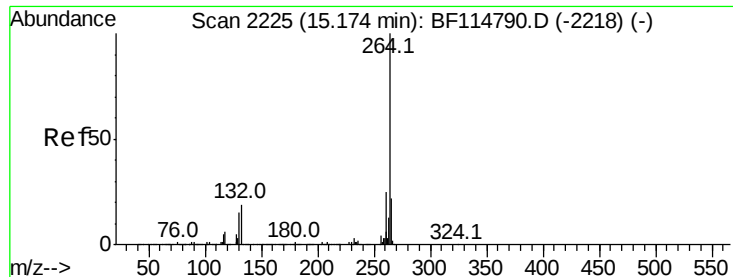


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.20 min Scan# 2230

Delta R.T. 0.03 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

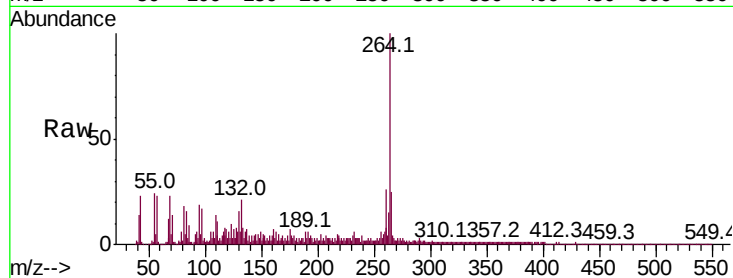
Tot Ion:264 Resp: 689562

Ion Ratio Lower Upper

264 100

260 26.5 20.1 30.1

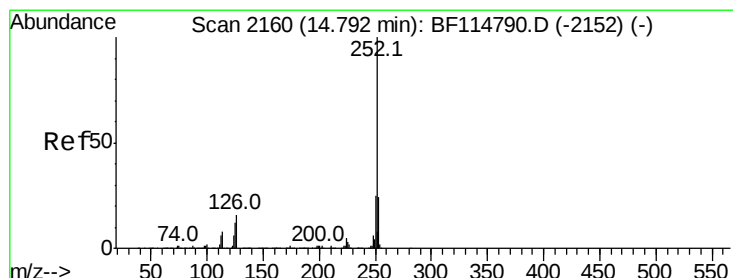
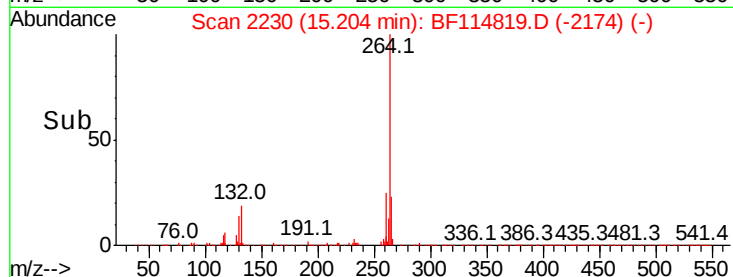
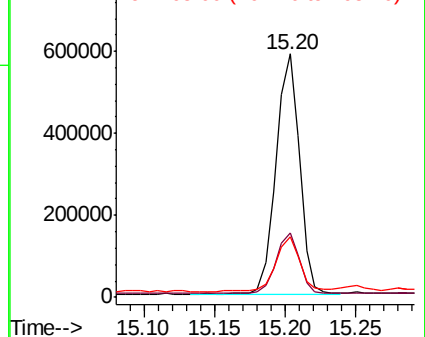
265 24.8 17.7 26.5



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



#88

Benzo(b)fluoranthene

Concen: 19.920 ng

RT: 14.82 min Scan# 2164

Delta R.T. 0.02 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

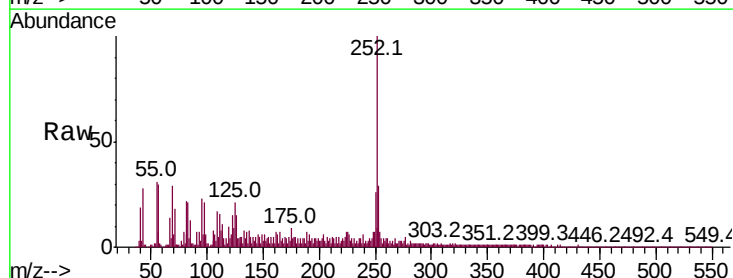
Tgt Ion:252 Resp: 874452

Ion Ratio Lower Upper

252 100

253 28.5 19.0 28.6

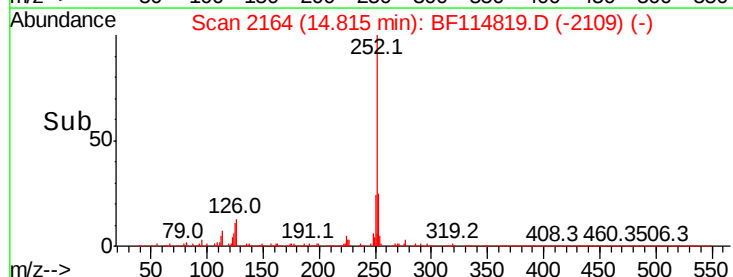
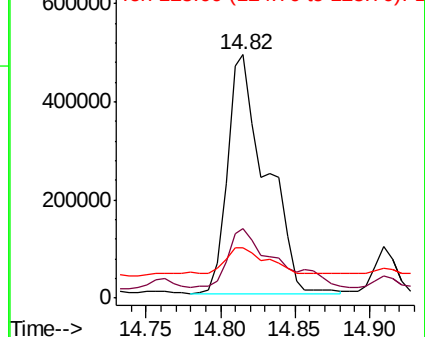
125 20.8 9.4 14.0#

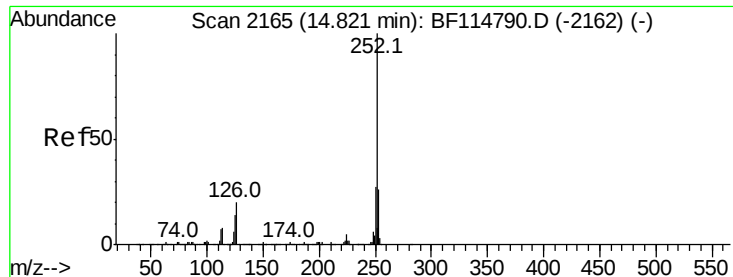


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

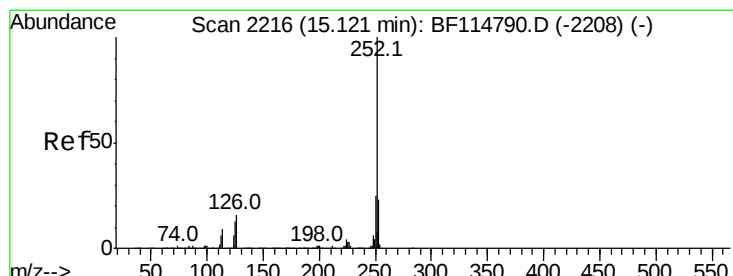
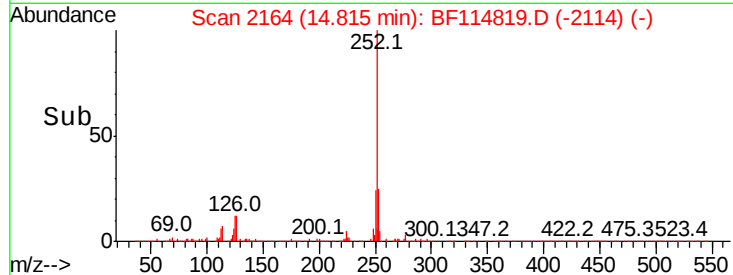
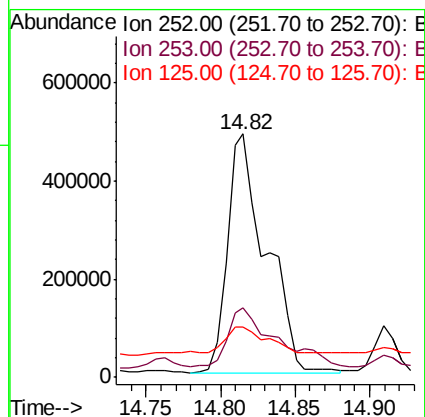
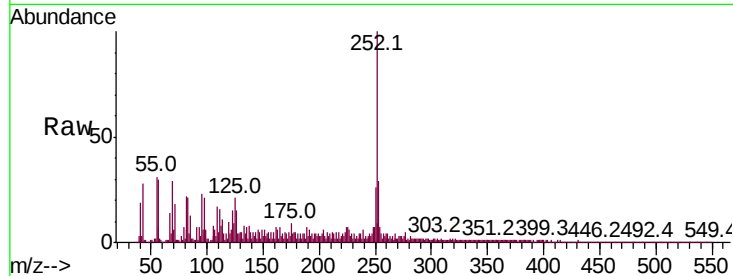




#89  
Benzo(k)fluoranthene  
Concen: 23.457 ng  
RT: 14.82 min Scan# 2164  
Delta R.T. -0.01 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

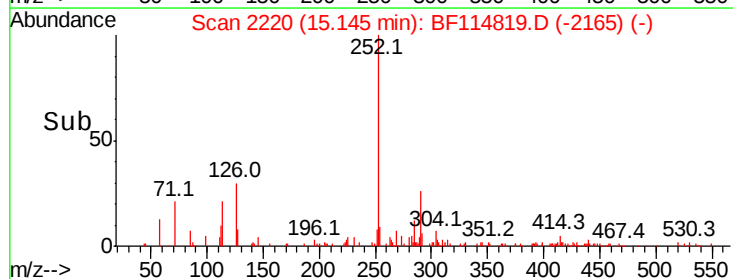
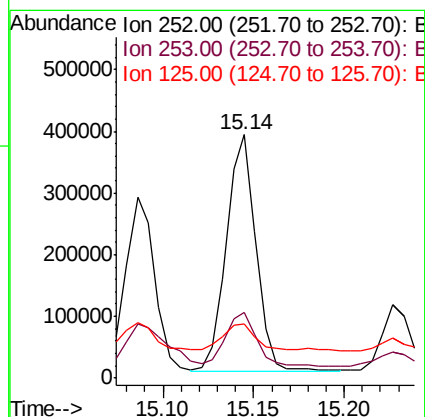
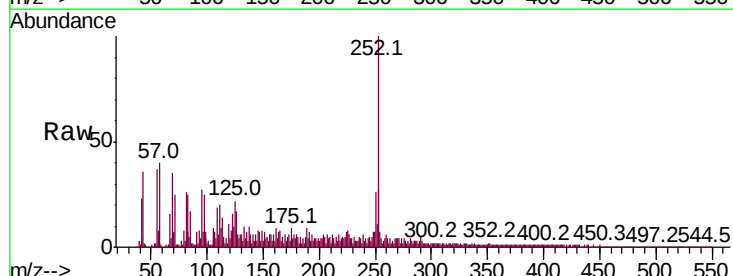
Instrument :  
BNA\_F  
ClientSampleId :

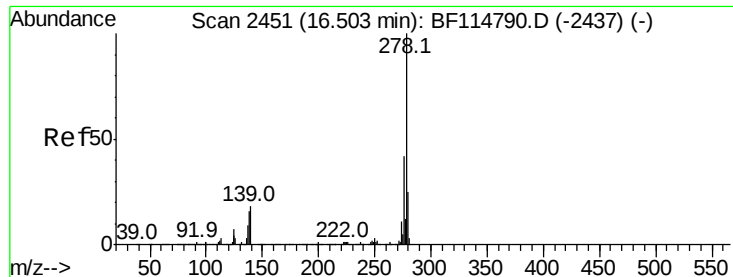
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.5  | 19.3  | 28.9  |
| 125     | 20.8  | 10.1  | 15.1  |



#90  
Benzo(a)pyrene  
Concen: 11.504 ng  
RT: 15.14 min Scan# 2220  
Delta R.T. 0.02 min  
Lab File: BF114819.D  
Acq: 5 Jun 2019 14:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.9  | 18.5  | 27.7  |
| 125     | 22.2  | 10.1  | 15.1  |





#91

Dibenzo(a,h)anthracene

Concen: 2.156 ng

RT: 16.53 min Scan# 2456

Delta R.T. 0.03 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA\_F

ClientSampleId :

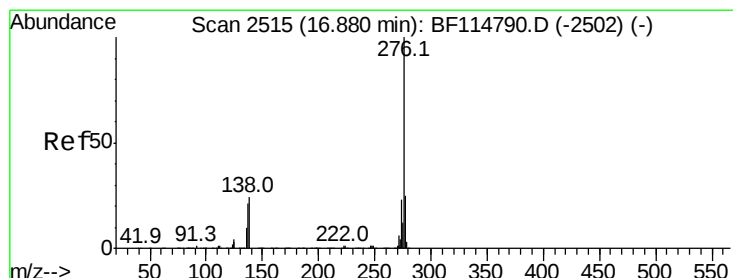
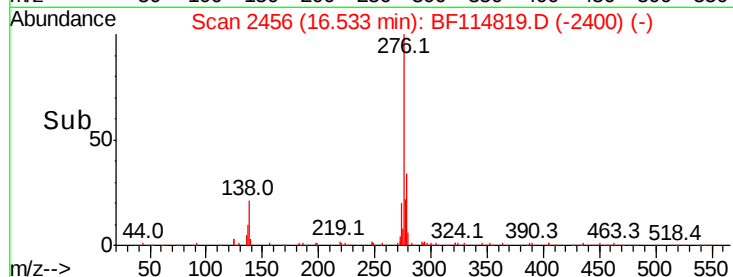
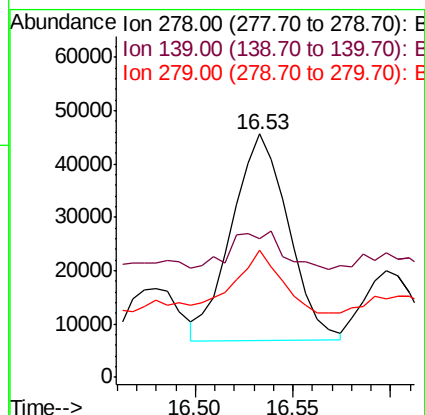
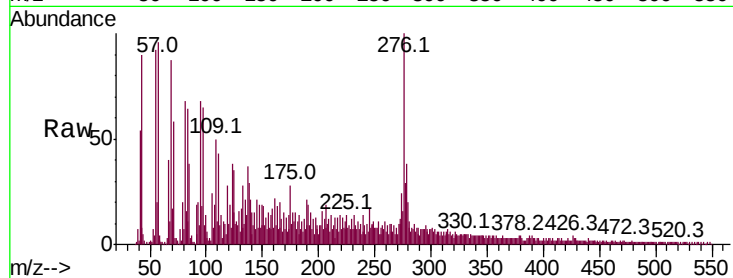
Tot Ion:278 Resp: 77569

Ion Ratio Lower Upper

278 100

139 57.1 14.6 22.0#

279 52.1 20.1 30.1#



#92

Benzo(g,h,i)perylene

Concen: 6.942 ng

RT: 16.92 min Scan# 2522

Delta R.T. 0.04 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Tgt Ion:276 Resp: 251201

Ion Ratio Lower Upper

276 100

277 28.6 19.8 29.6

138 29.6 19.4 29.2#

