

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031919\  
 Data File : BF113146.D  
 Acq On : 20 Mar 2019 1:41  
 Operator : JU/SJ  
 Sample : K1933-07 10X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-7

Quant Time: Mar 20 07:18:21 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 168669   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.00  | 136  | 650777   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.76  | 164  | 314890   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.23 | 188  | 568101   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.86 | 240  | 415557   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.27 | 264  | 351342   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 135048   | 12.45 | ng    | -0.01    |
| 7) Phenol-d6                | 6.36  | 99   | 186016   | 13.66 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 100442   | 9.24  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.54 | 330  | 47394    | 14.18 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 202000   | 7.30  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 172008   | 8.02  | ng    | 0.00     |

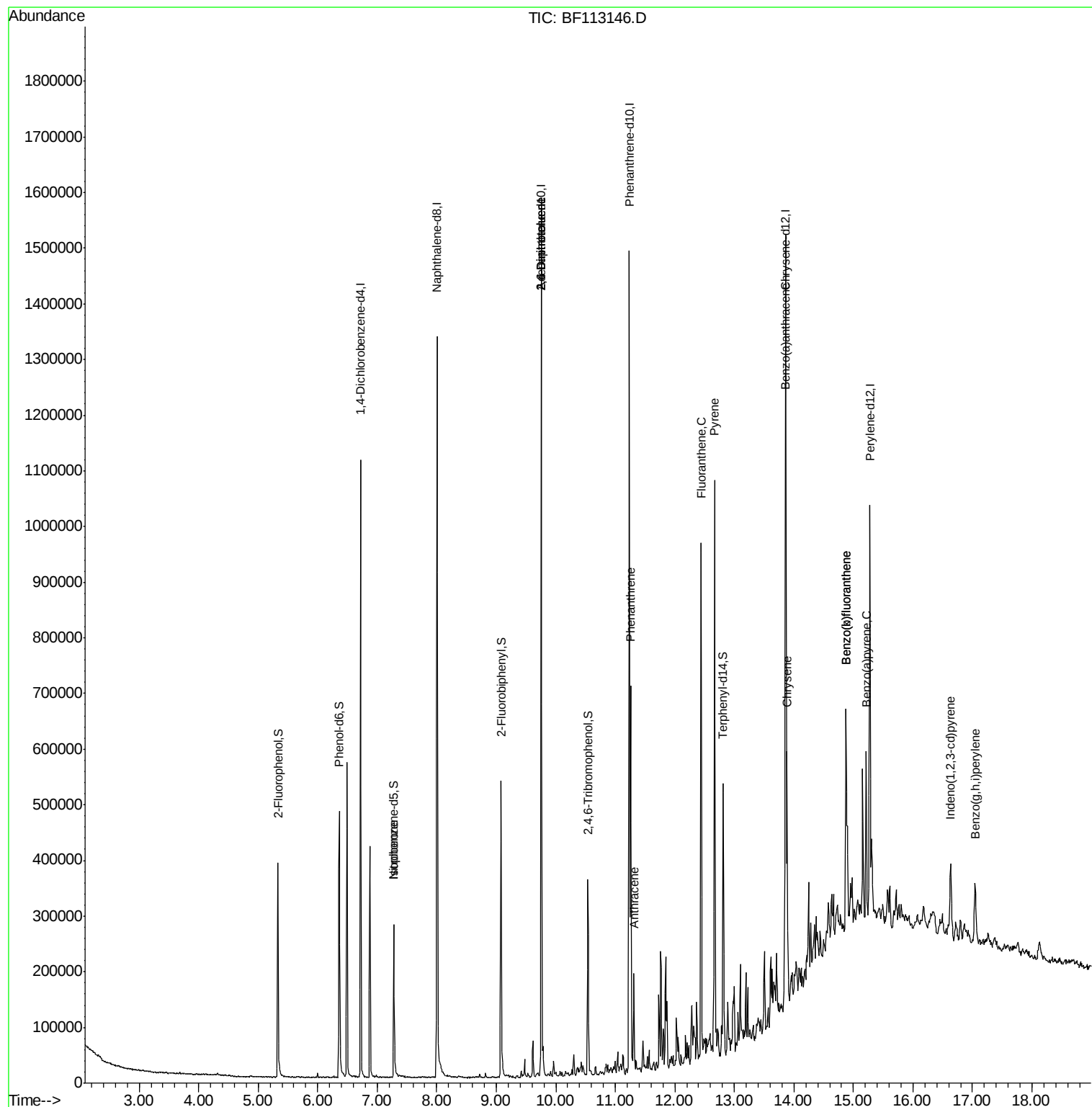
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 25) Isophorone             | 7.28  | 82   | 100441   | 4.287  | ng    | # 66   |
| 51) 2,6-Dinitrotoluene     | 9.76  | 165  | 39901    | 8.253  | ng    | # 18   |
| 57) 2,4-Dinitrotoluene     | 9.76  | 165  | 39901    | 6.639  | ng    | # 18   |
| 71) Phenanthrene           | 11.26 | 178  | 248379   | 8.787  | ng    | 98     |
| 72) Anthracene             | 11.31 | 178  | 72974    | 2.466  | ng    | 98     |
| 75) Fluoranthene           | 12.45 | 202  | 405238   | 13.382 | ng    | 94     |
| 78) Pyrene                 | 12.67 | 202  | 412824   | 11.784 | ng    | 99     |
| 81) Benzo(a)anthracene     | 13.85 | 228  | 209483   | 7.273  | ng    | 98     |
| 83) Chrysene               | 13.89 | 228  | 190676   | 6.759  | ng    | 97     |
| 86) Indeno(1,2,3-cd)pyrene | 16.63 | 276  | 84763    | 3.524  | ng    | 95     |
| 88) Benzo(b)fluoranthene   | 14.87 | 252  | 276002   | 12.145 | ng    | 99     |
| 89) Benzo(k)fluoranthene   | 14.87 | 252  | 276002   | 13.408 | ng    | 100    |
| 90) Benzo(a)pyrene         | 15.22 | 252  | 148006   | 7.363  | ng    | 97     |
| 92) Benzo(g,h,i)perylene   | 17.04 | 276  | 83597    | 4.854  | ng    | 95     |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 13 03:42:55 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.72 min Scan# 788

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Instrument :

BNA\_F

ClientSampleId :

S-7

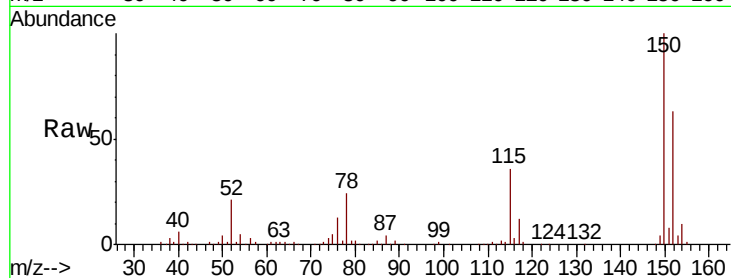
Tgt Ion:152 Resp: 168669

Ion Ratio Lower Upper

152 100

150 157.5 124.2 186.2

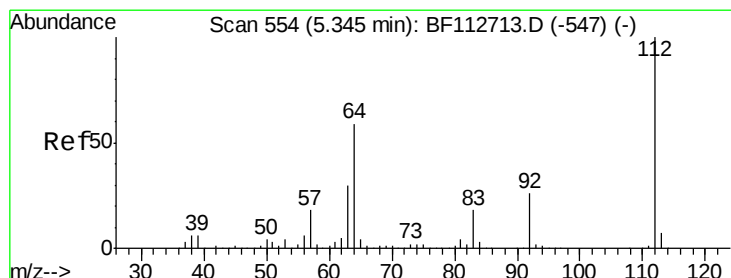
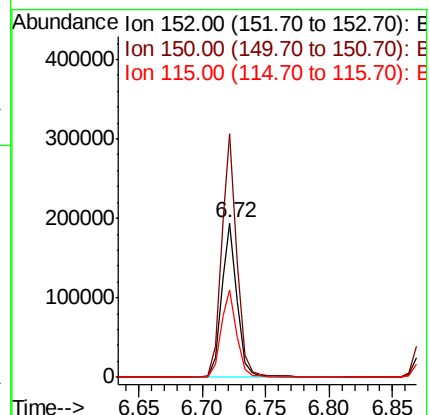
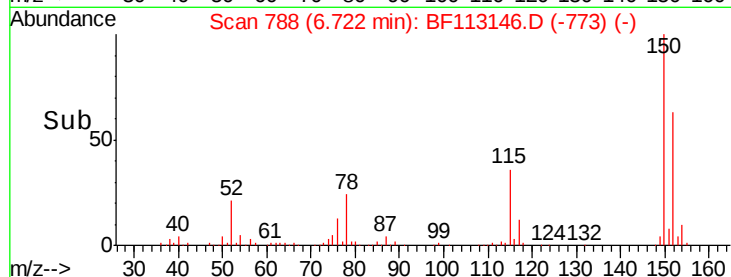
115 56.6 48.2 72.4



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: 12.455 ng

RT: 5.33 min Scan# 552

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

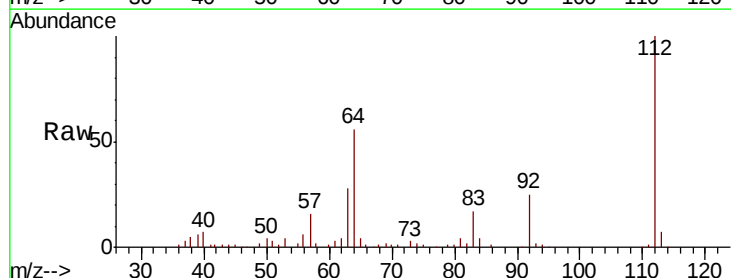
Tgt Ion:112 Resp: 135048

Ion Ratio Lower Upper

112 100

64 55.5 47.6 71.4

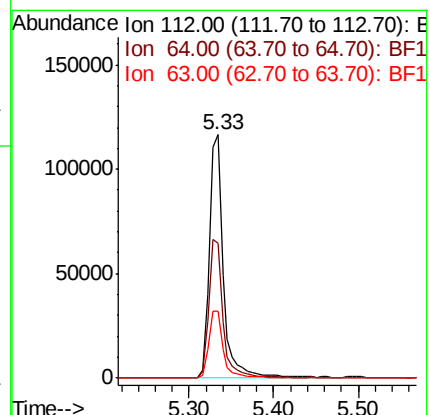
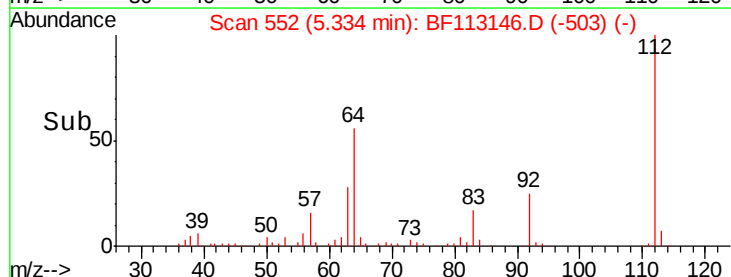
63 27.6 24.4 36.6



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: 13.657 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Instrument :

BNA\_F

ClientSampled :

S-7

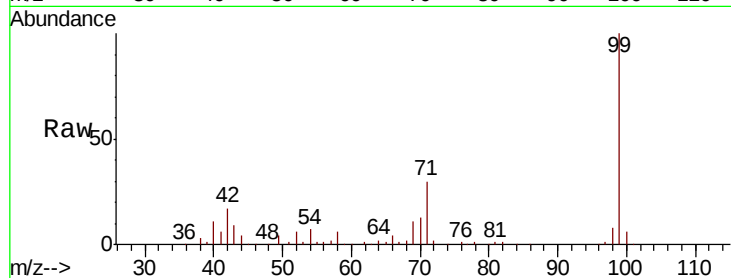
Tgt Ion: 99 Resp: 186016

Ion Ratio Lower Upper

99 100

42 17.0 16.3 24.5

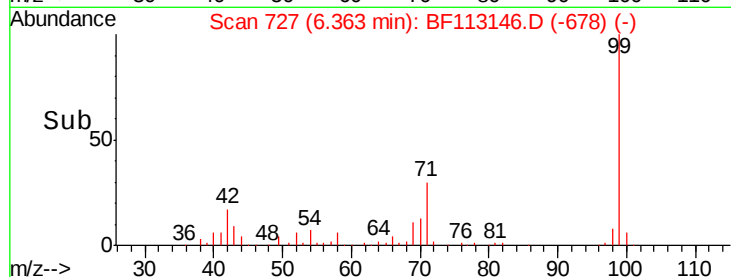
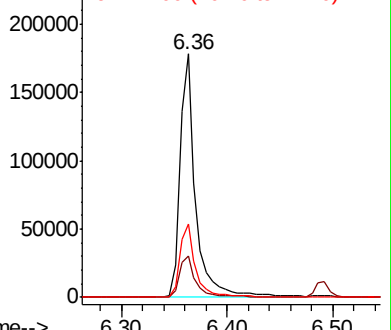
71 30.3 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Tgt Ion: 136 Resp: 650777

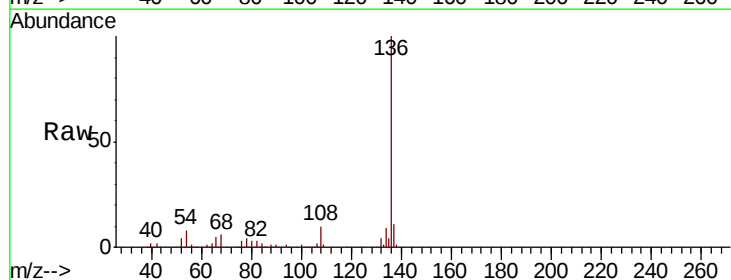
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 8.4 7.3 10.9

68 5.8 5.4 8.2

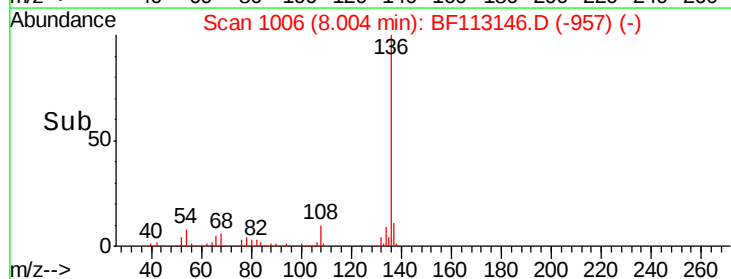
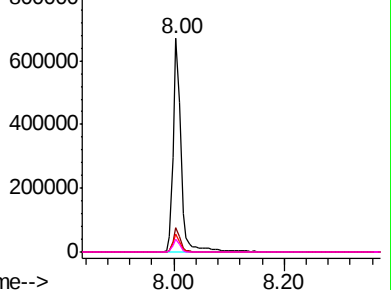


Abundance Ion 136.00 (135.70 to 136.70): E

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

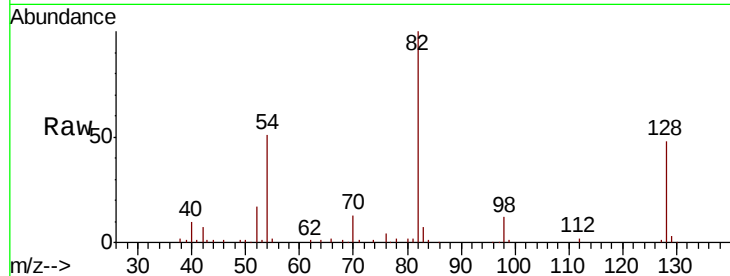




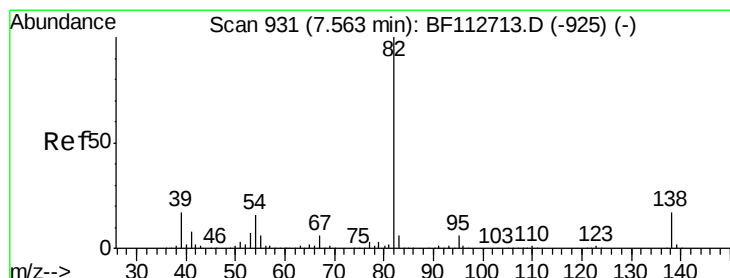
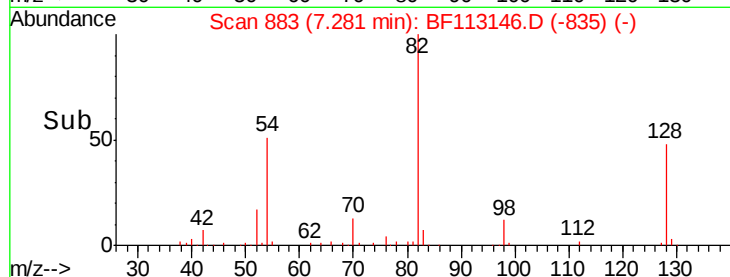
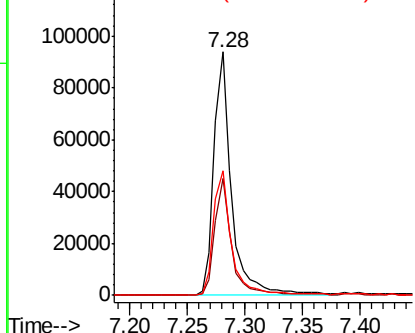
#23  
Nitrobenzene-d5  
Concen: 9.235 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 82 Resp: 100442  
Ion Ratio Lower Upper  
82 100  
128 47.9 36.3 54.5  
54 50.9 43.7 65.5

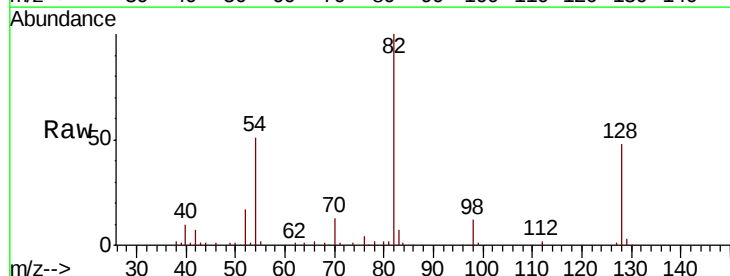


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

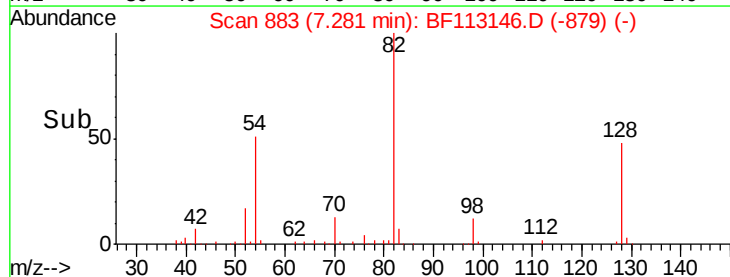
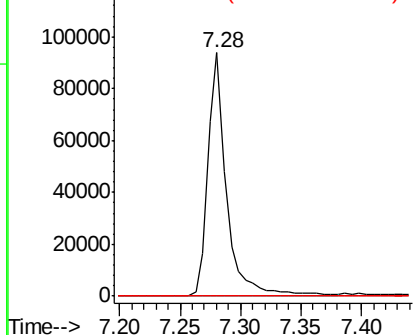


#25  
Isophorone  
Concen: 4.287 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.28 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Tgt Ion: 82 Resp: 100441  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 13.8 20.8#



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

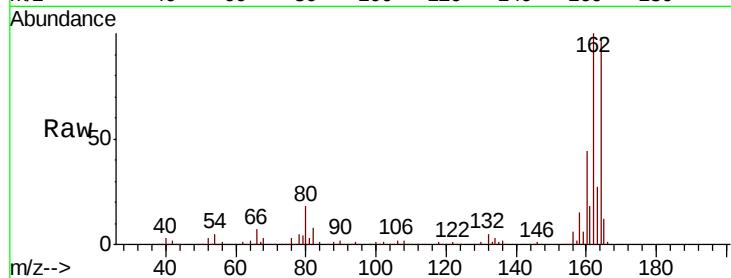




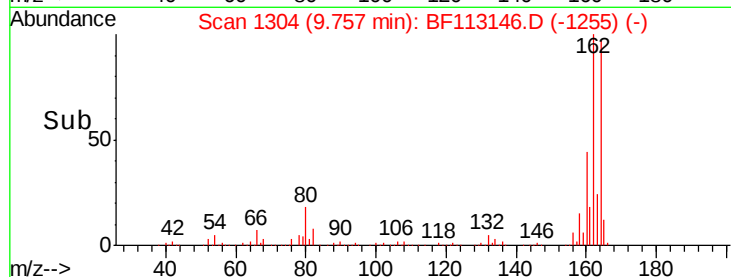
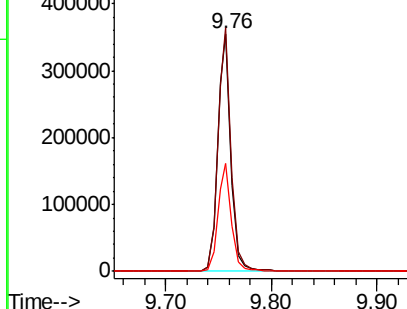
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.01 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion:164 Resp: 314890  
 Ion Ratio Lower Upper  
 164 100  
 162 102.4 80.6 120.8  
 160 45.6 36.0 54.0

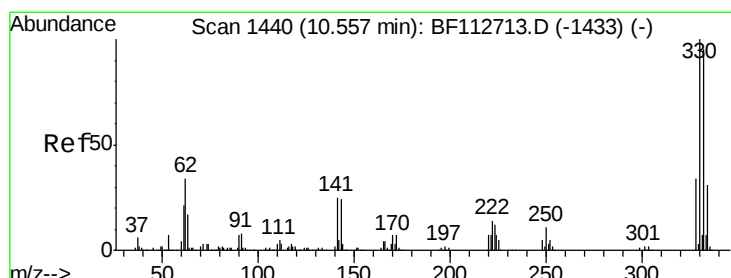


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

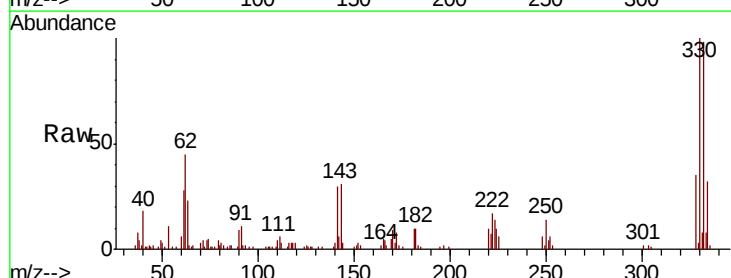
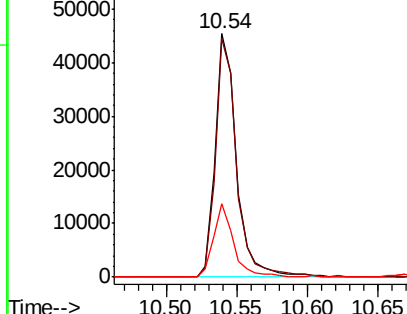


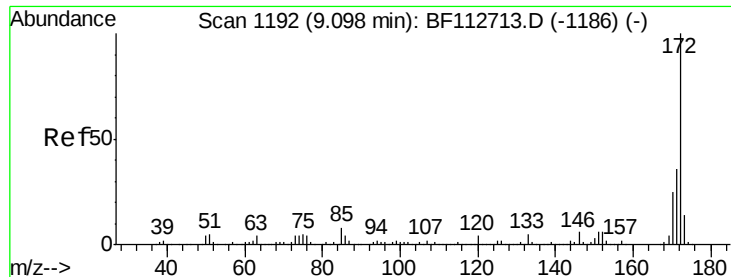
#42  
 2,4,6-Tribromophenol  
 Concen: 14.177 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

Tgt Ion:330 Resp: 47394  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 76.2 114.4  
 141 28.3 27.0 40.6



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

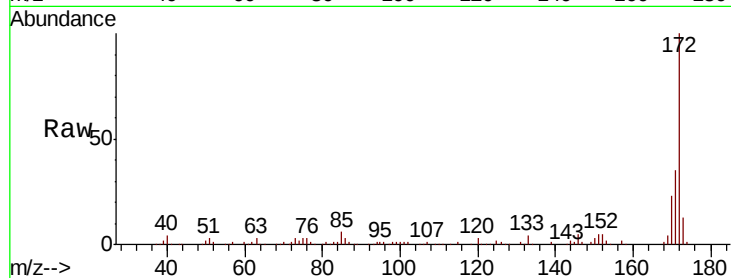




#45  
 2-Fluorobiphenyl  
 Concen: 7.296 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

Instrument :  
 BNA\_F  
 ClientSampled :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 29.0  | 43.4  |
| 170     | 23.2  | 20.0  | 30.0  |

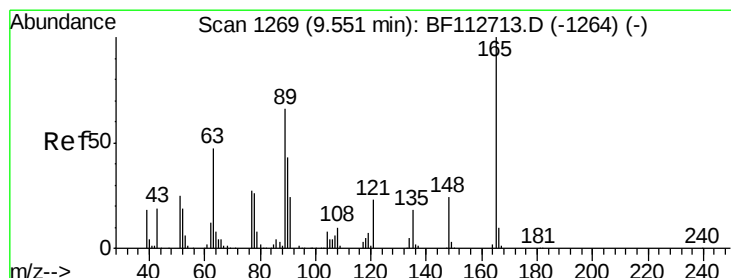
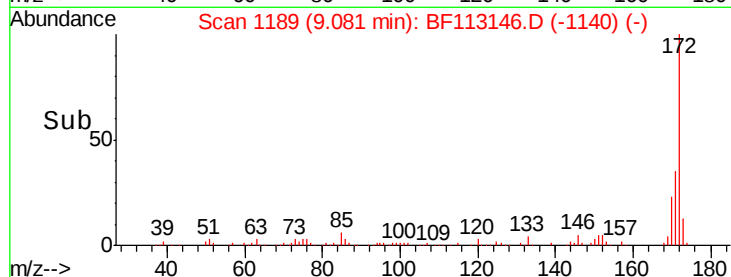
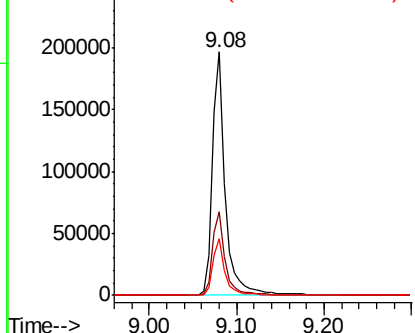


Abundance

Ion 172.00 (171.70 to 172.70): E

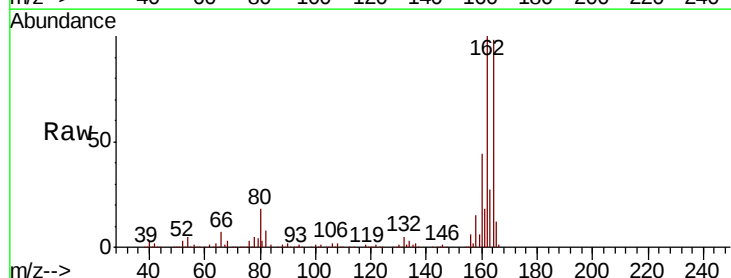
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51  
 2,6-Dinitrotoluene  
 Concen: 8.253 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.21 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 54.1  | 81.1# |
| 89      | 1.3   | 52.8  | 79.2# |

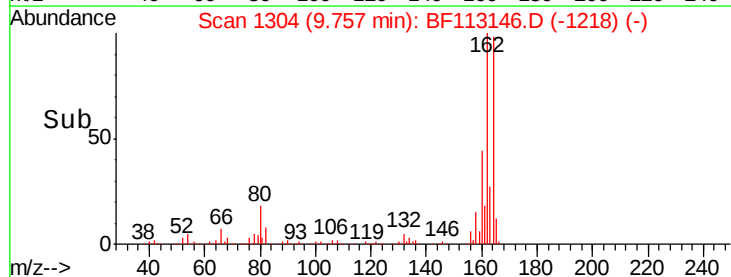
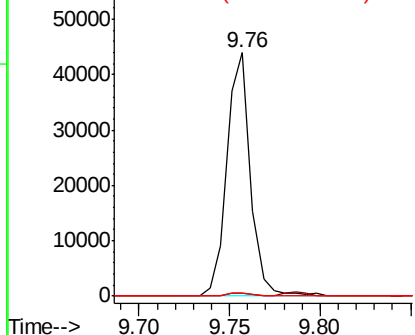


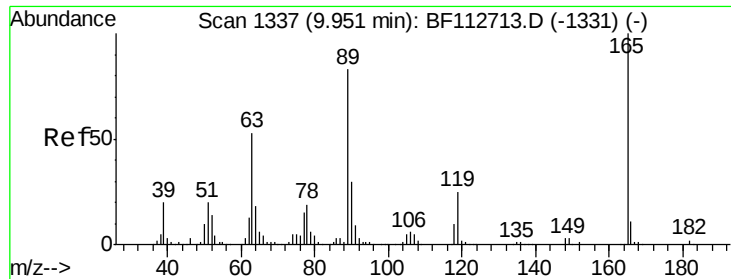
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

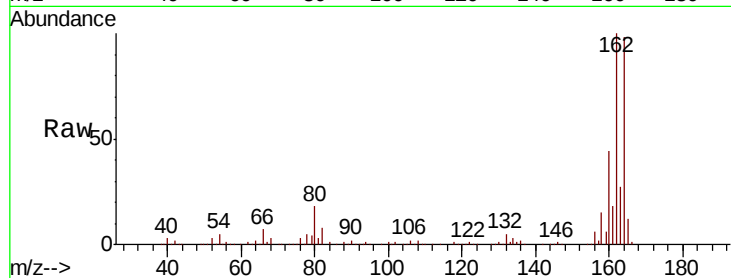




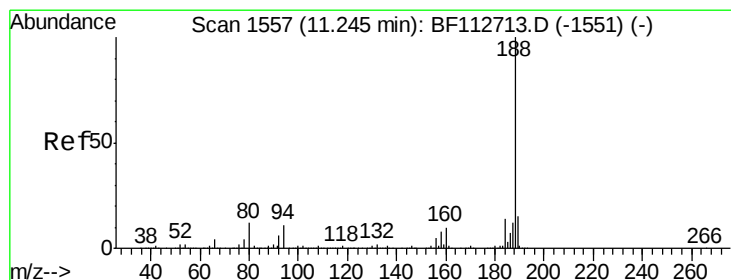
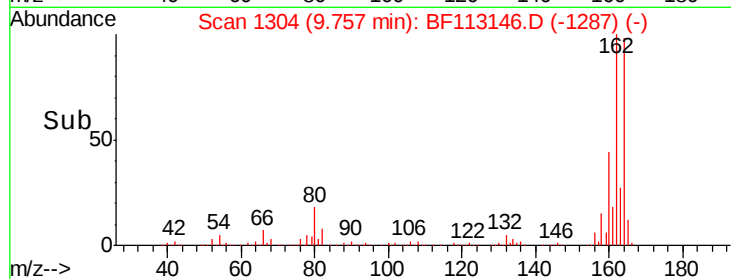
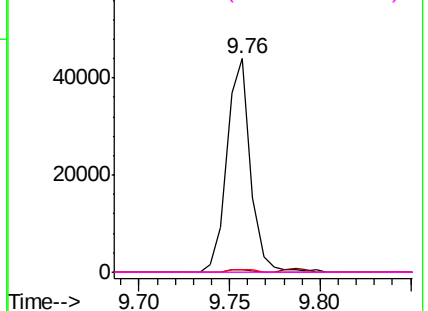
#57  
2,4-Dinitrotoluene  
Concen: 6.639 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.20 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Instrument :  
BNA\_F  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 39901 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.4   | 42.2  | 63.2# |
| 89       | 1.3   | 66.2  | 99.4# |
| 182      | 0.0   | 1.8   | 2.6#  |

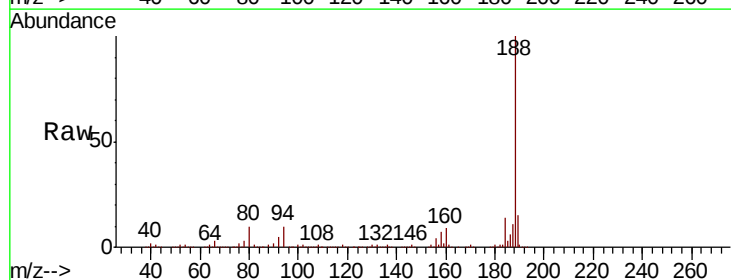


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

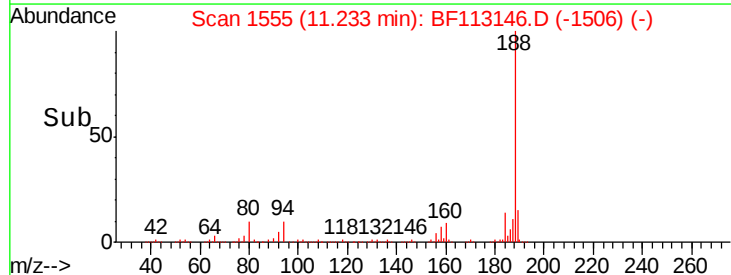
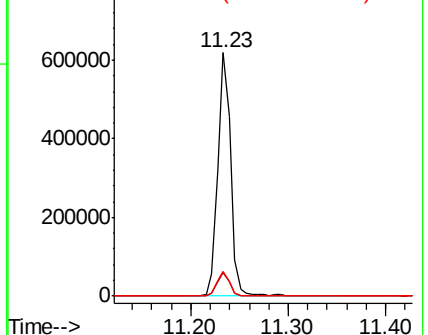


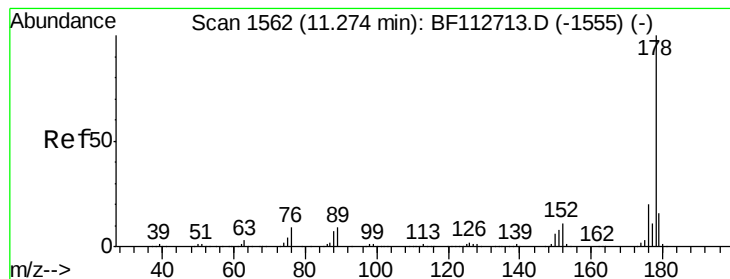
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.01 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 568101 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.8   | 9.0   | 13.4   |
| 80       | 10.2  | 9.2   | 13.8   |



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: 8.787 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Instrument :

BNA\_F

ClientSampleId :

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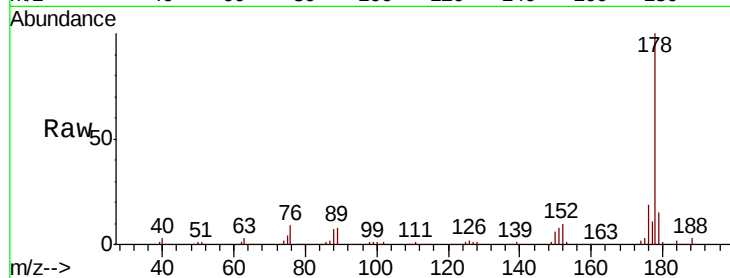
Tgt Ion:178 Resp: 248379

Ion Ratio Lower Upper

178 100

176 19.3 16.3 24.5

179 15.0 12.7 19.1

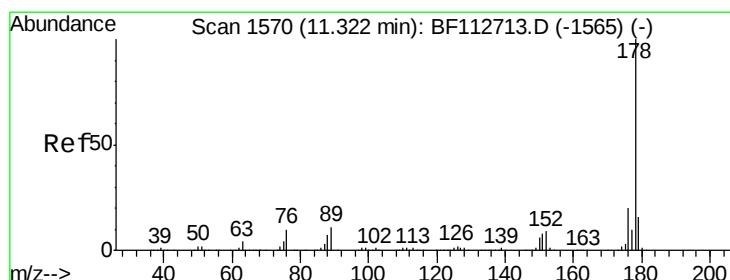
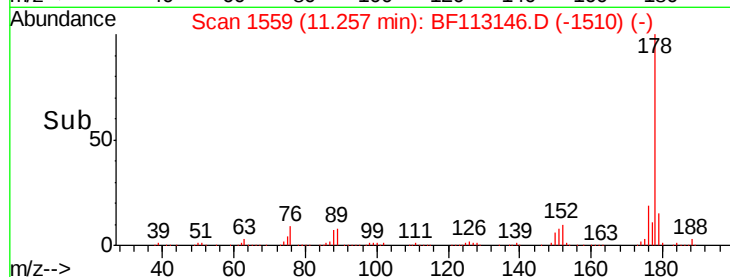
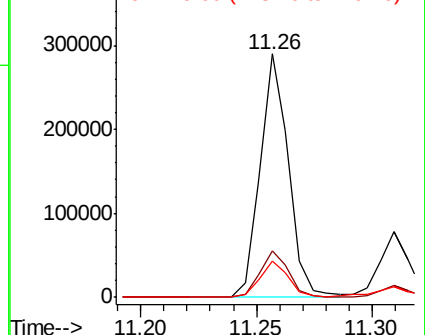


Abundance

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



#72

Anthracene

Concen: 2.466 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

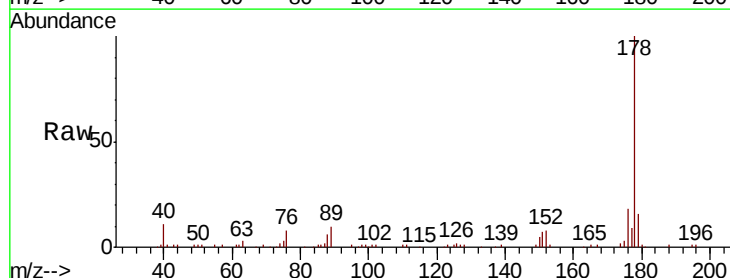
Tgt Ion:178 Resp: 72974

Ion Ratio Lower Upper

178 100

176 18.5 15.8 23.6

179 15.5 13.0 19.6

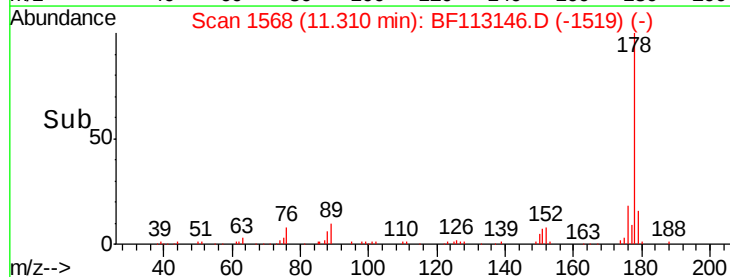
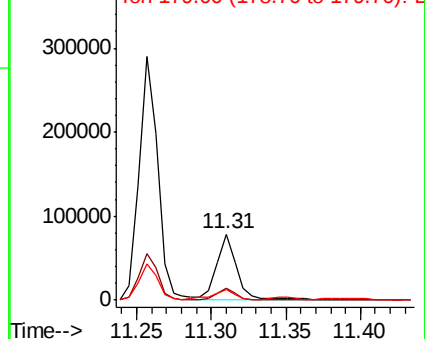


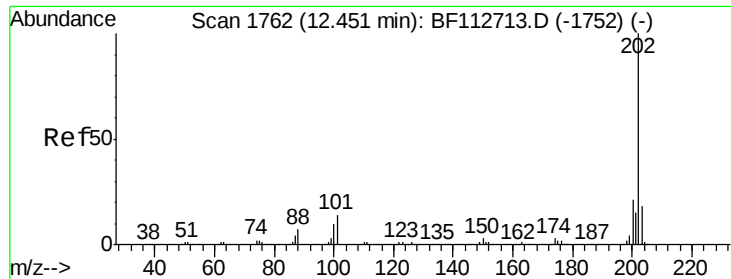
Abundance

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





#75

Fluoranthene

Concen: 13.382 ng

RT: 12.45 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Instrument :

BNA\_F

ClientSampled :

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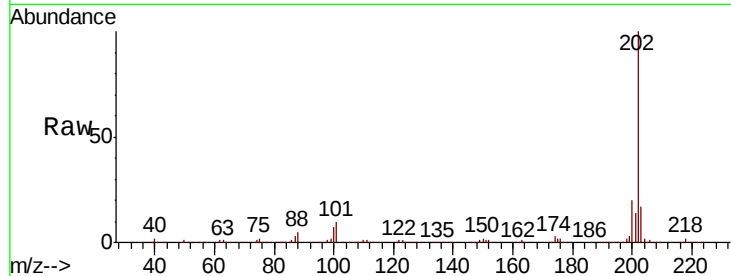
Tgt Ion: 202 Resp: 405238

Ion Ratio Lower Upper

202 100

101 10.1 0.0 33.8

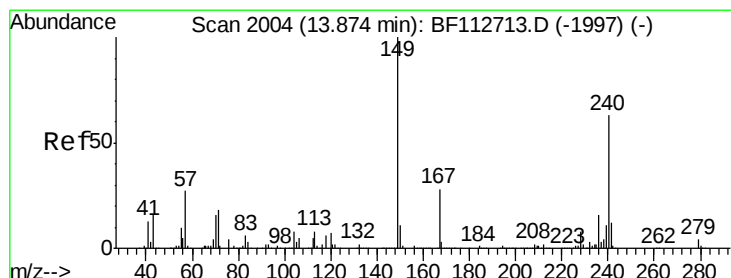
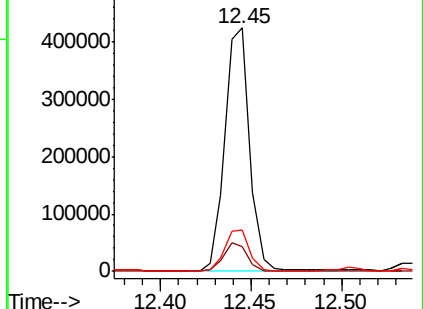
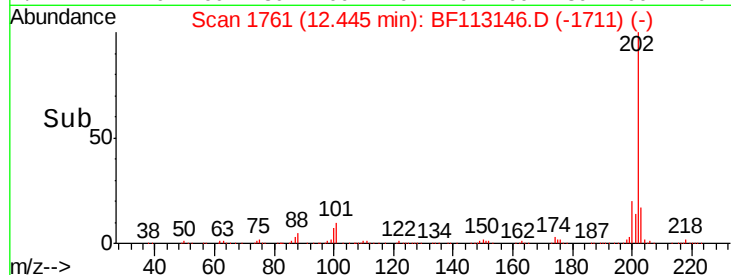
203 17.0 0.0 38.4



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

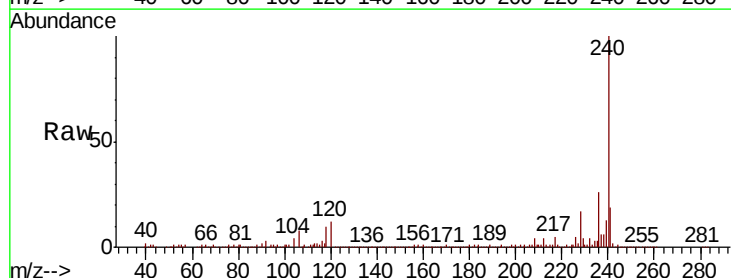
Tgt Ion: 240 Resp: 415557

Ion Ratio Lower Upper

240 100

120 11.7 8.9 13.3

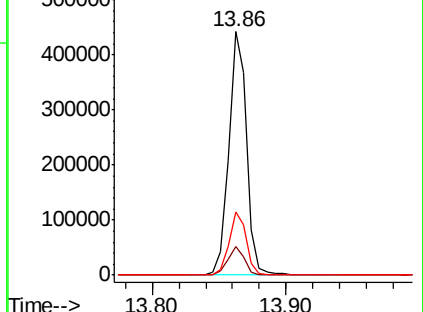
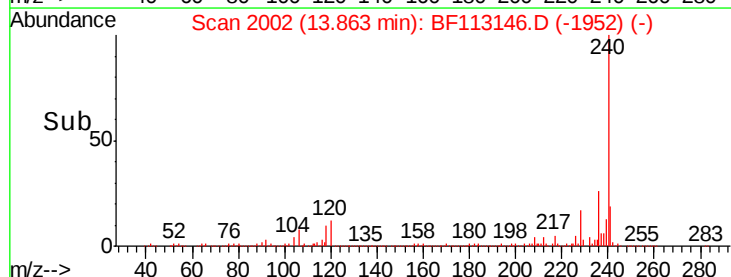
236 25.9 20.7 31.1

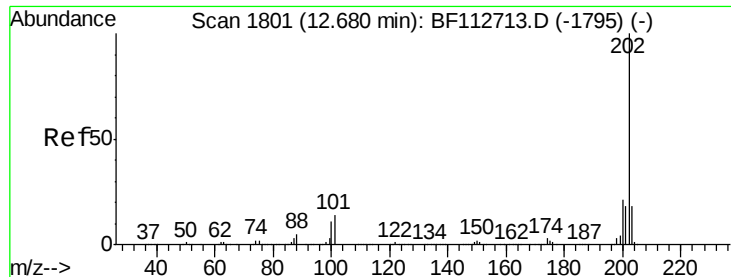


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 11.784 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

Instrument :

BNA\_F

ClientSampleId :

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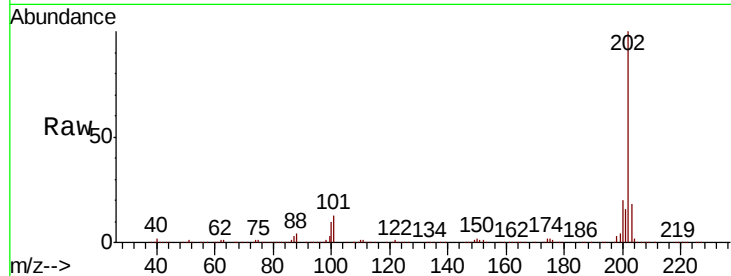
Tgt Ion: 202 Resp: 412824

Ion Ratio Lower Upper

202 100

200 20.3 17.0 25.4

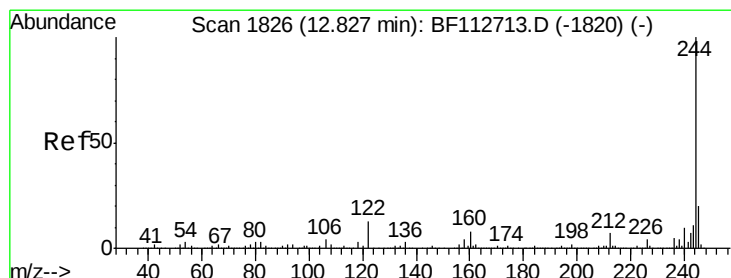
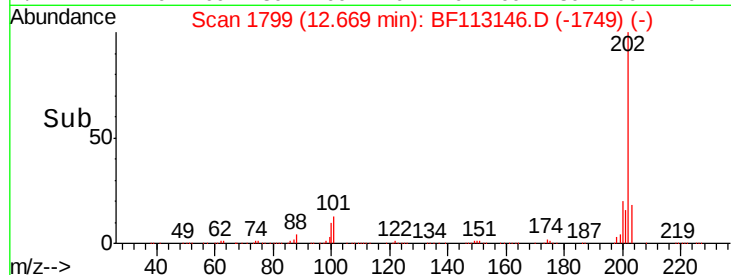
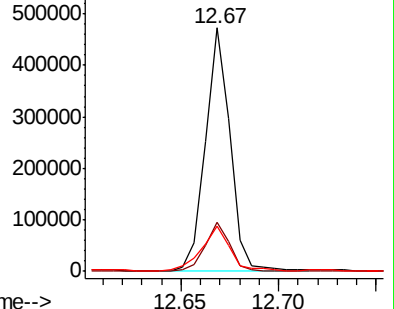
203 18.4 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 8.024 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113146.D

Acq: 20 Mar 2019 1:41

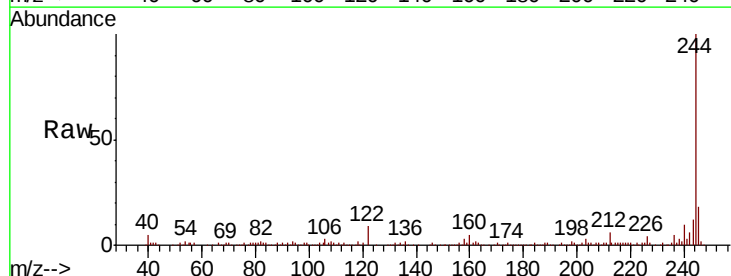
Tgt Ion: 244 Resp: 172008

Ion Ratio Lower Upper

244 100

212 6.0 5.6 8.4

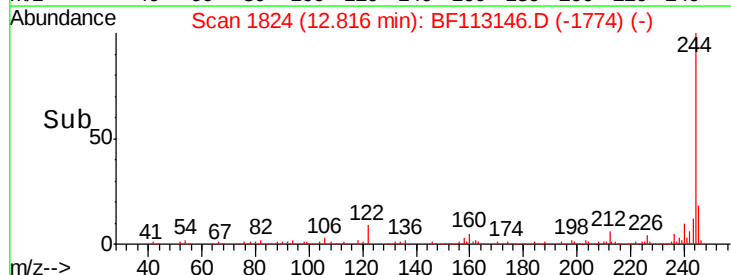
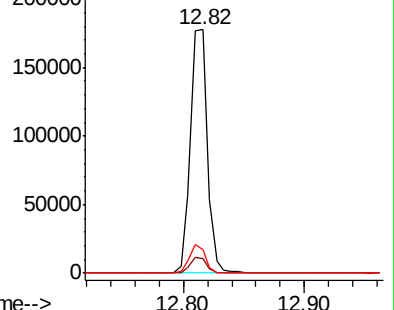
122 9.5 10.5 15.7#

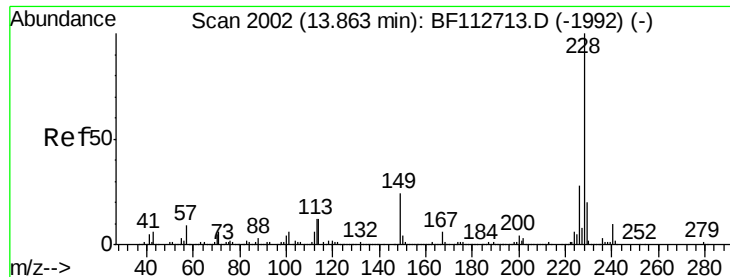


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

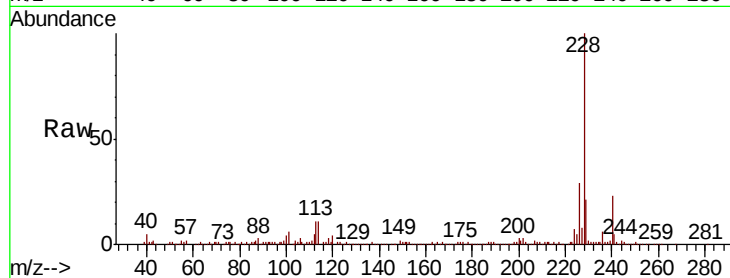




#81  
Benzo(a)anthracene  
Concen: 7.273 ng  
RT: 13.85 min Scan# 2000  
Delta R.T. -0.01 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
S-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.2  | 33.4  |
| 229     | 21.1  | 16.0  | 24.0  |

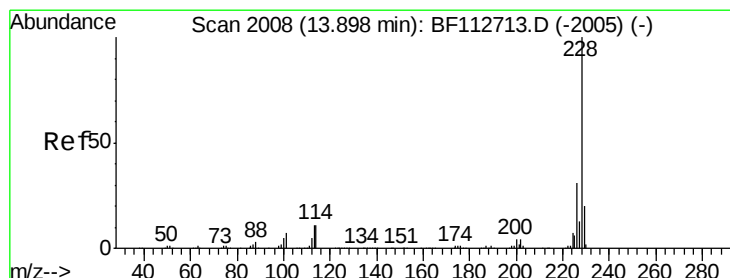
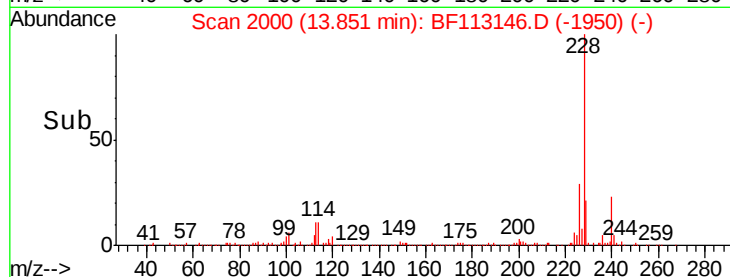
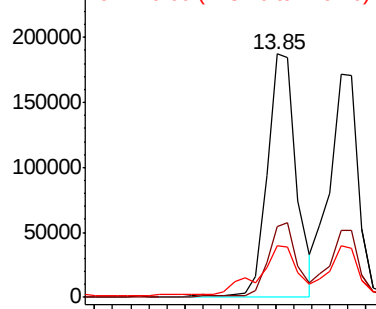


Abundance

Ion 228.00 (227.70 to 228.70): E

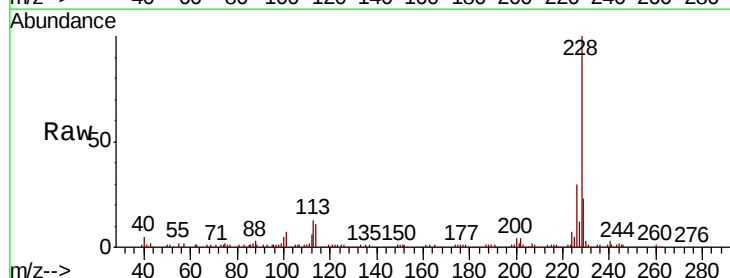
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83  
Chrysene  
Concen: 6.759 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 24.9  | 37.3  |
| 229     | 23.0  | 16.3  | 24.5  |

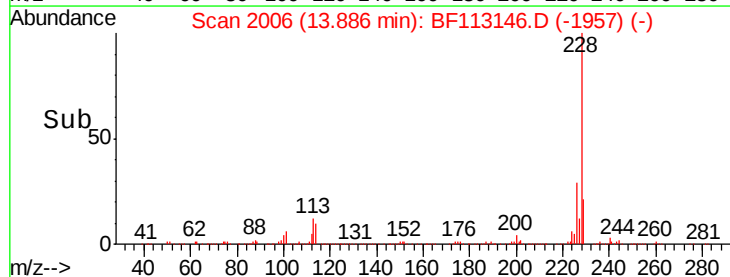
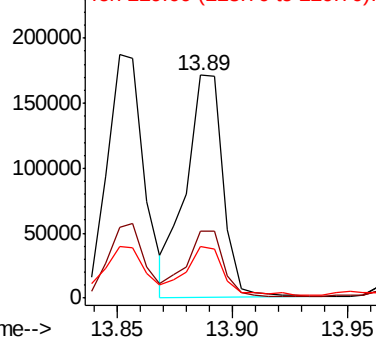


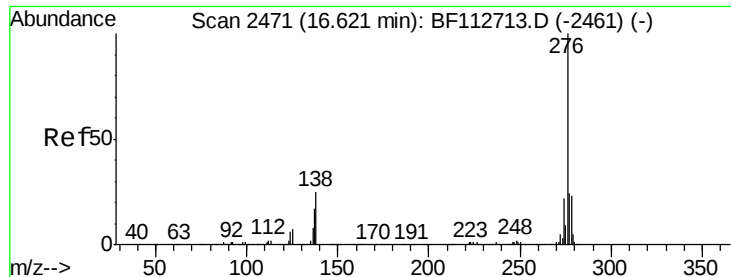
Abundance

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

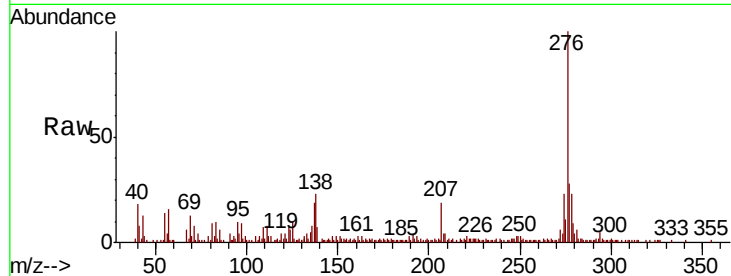




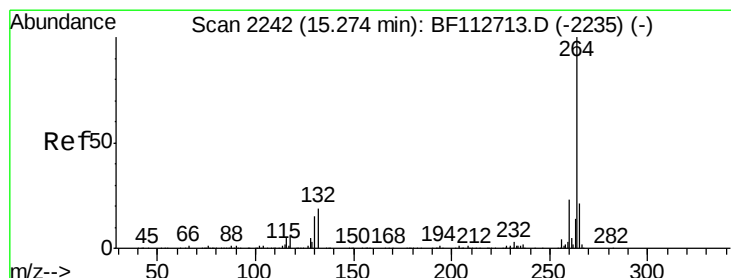
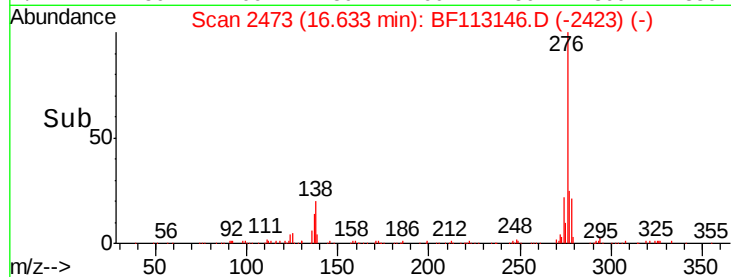
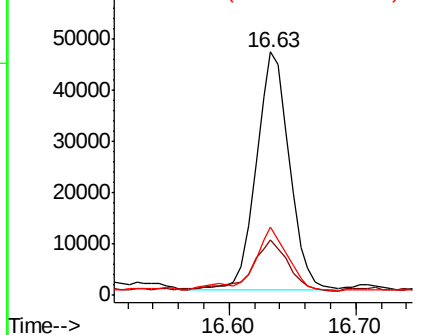
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.524 ng  
 RT: 16.63 min Scan# 2473  
 Delta R.T. -0.01 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion: 276 Resp: 84763  
 Ion Ratio Lower Upper  
 276 100  
 138 24.3 23.2 34.8  
 277 24.7 19.9 29.9

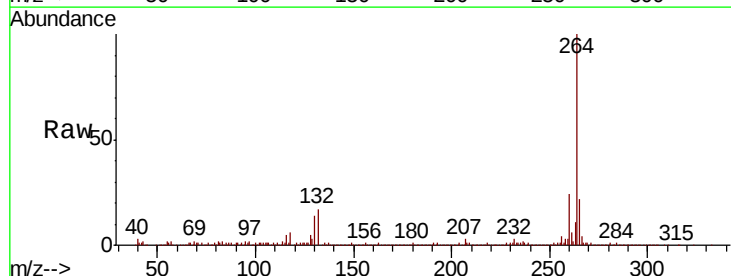


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

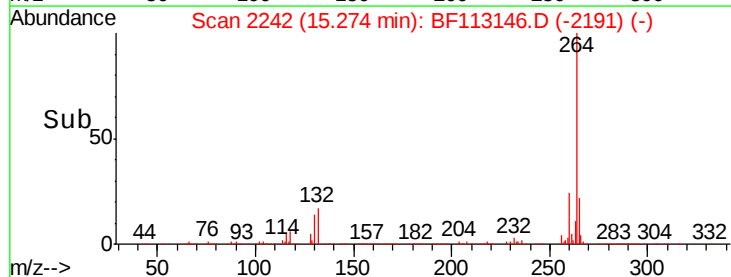
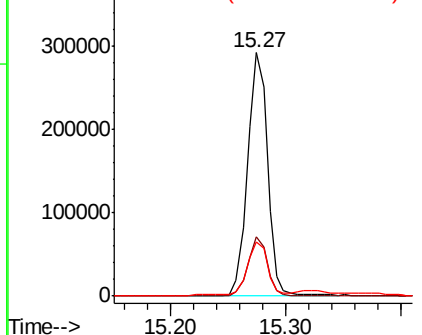


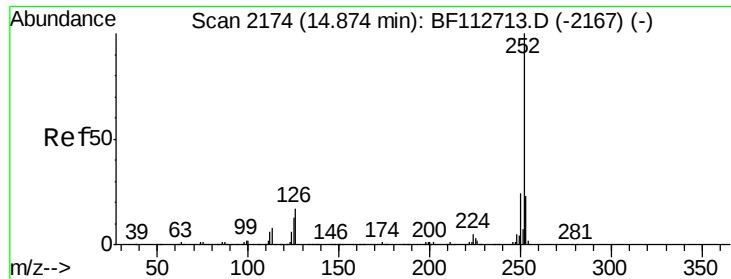
#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.27 min Scan# 2242  
 Delta R.T. -0.00 min  
 Lab File: BF113146.D  
 Acq: 20 Mar 2019 1:41

Tgt Ion: 264 Resp: 351342  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 18.7 28.1  
 265 22.3 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

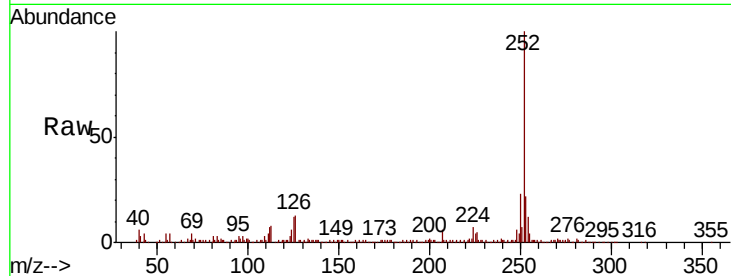




#88  
Benzo(b)fluoranthene  
Concen: 12.145 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.00 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
S-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.0  | 27.0  |
| 125     | 12.2  | 10.2  | 15.2  |

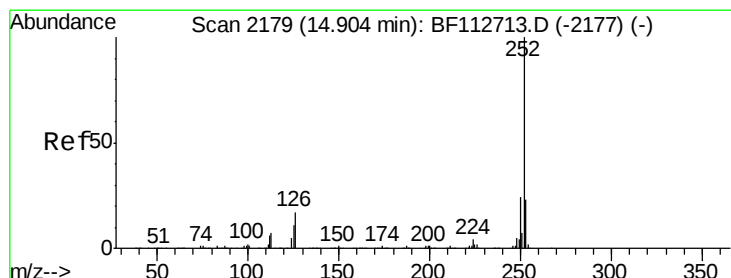
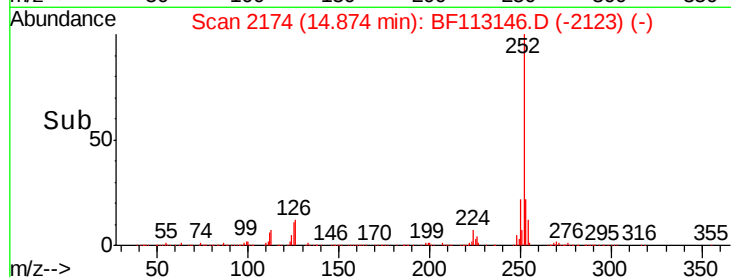
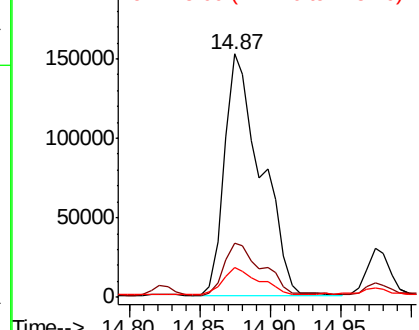


Abundance

Ion 252.00 (251.70 to 252.70): E

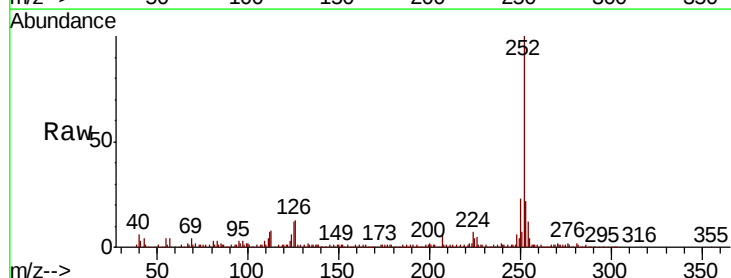
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(k)fluoranthene  
Concen: 13.408 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.03 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.2  | 27.2  |
| 125     | 12.2  | 9.8   | 14.6  |

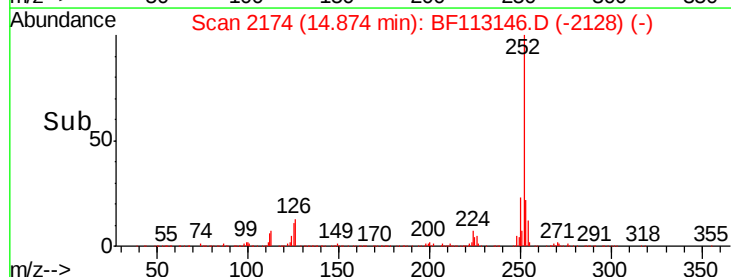
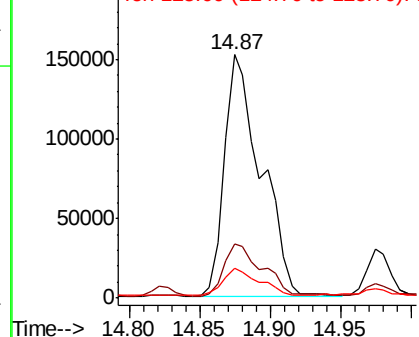


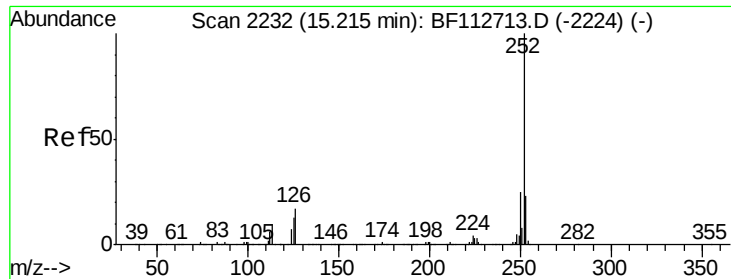
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

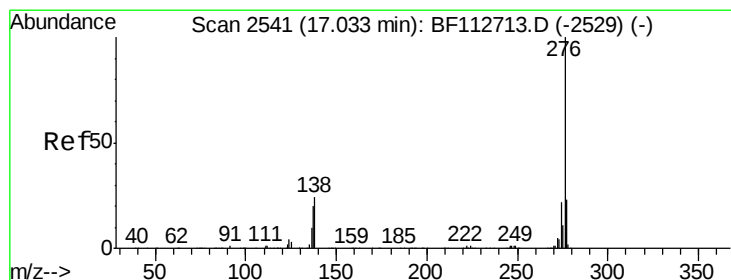
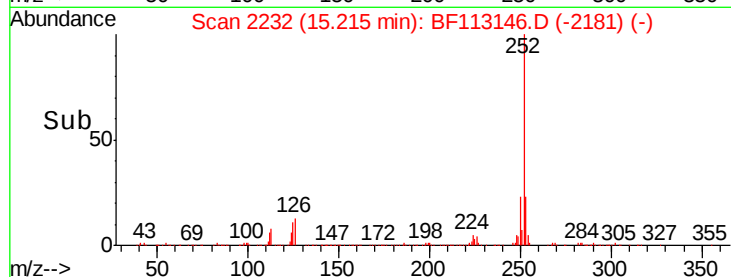
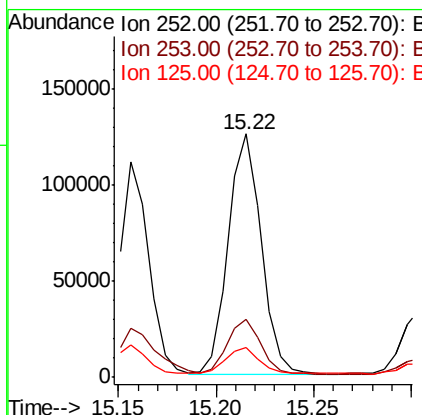
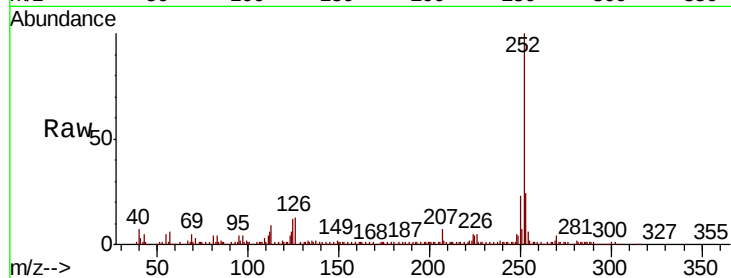




#90  
Benzo(a)pyrene  
Concen: 7.363 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 252 Resp: 148006  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.0 27.0  
125 12.0 10.7 16.1



#92  
Benzo(g,h,i)perylene  
Concen: 4.854 ng  
RT: 17.04 min Scan# 2543  
Delta R.T. -0.00 min  
Lab File: BF113146.D  
Acq: 20 Mar 2019 1:41

Tgt Ion: 276 Resp: 83597  
Ion Ratio Lower Upper  
276 100  
277 25.9 18.6 27.8  
138 22.1 19.4 29.0

