

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
 Data File : BF114943.D  
 Acq On : 11 Jun 2019 13:52  
 Operator : HP/JU  
 Sample : K3160-05 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 11 14:19:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 16:44:00 2019  
 Response via : Initial Calibration

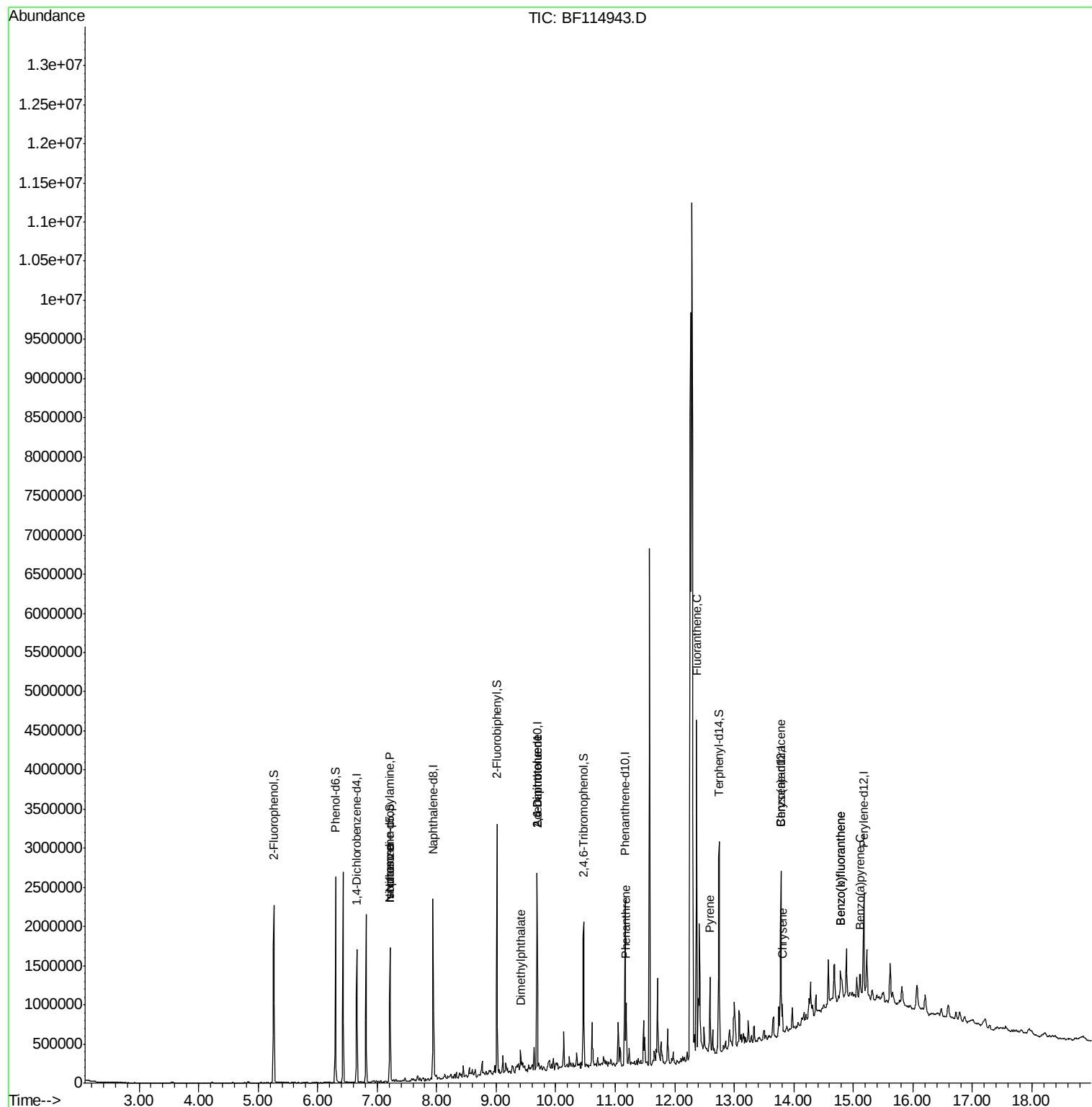
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 240717   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.94  | 136  | 924766   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.69  | 164  | 454839   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.16 | 188  | 826843   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.78 | 240  | 628472   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.17 | 264  | 619662   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.26  | 112  | 672107   | 47.25  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.30  | 99   | 839340   | 48.92  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 489489   | 32.52  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.47 | 330  | 220255   | 44.52  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.02  | 172  | 1023484  | 35.71  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.75 | 244  | 950012   | 30.06  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 65369    | 6.093  | ng    | # 75     |
| 25) Isophorone                 | 7.22  | 82   | 480405   | 16.300 | ng    | # 62     |
| 50) Dimethylphthalate          | 9.41  | 163  | 95324    | 2.788  | ng    | 98       |
| 51) 2,6-Dinitrotoluene         | 9.69  | 165  | 61713    | 7.860  | ng    | # 31     |
| 57) 2,4-Dinitrotoluene         | 9.69  | 165  | 61713    | 6.218  | ng    | # 28     |
| 71) Phenanthrene               | 11.18 | 178  | 270455   | 6.742  | ng    | 96       |
| 75) Fluoranthene               | 12.36 | 202  | 298618   | 7.197  | ng    | 85       |
| 78) Pyrene                     | 12.59 | 202  | 331432   | 6.055  | ng    | 96       |
| 81) Benzo(a)anthracene         | 13.77 | 228  | 166186   | 3.576  | ng    | 96       |
| 83) Chrysene                   | 13.80 | 228  | 161587   | 3.463  | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 14.79 | 252  | 248141   | 6.151  | ng    | # 92     |
| 89) Benzo(k)fluoranthene       | 14.79 | 252  | 248141   | 7.088  | ng    | # 92     |
| 90) Benzo(a)pyrene             | 15.12 | 252  | 133426   | 3.808  | ng    | # 94     |

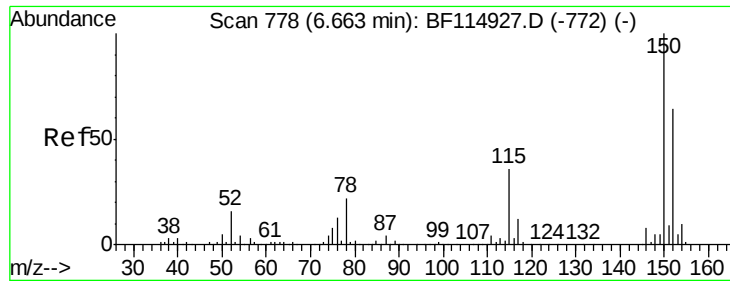
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
Data File : BF114943.D  
Acq On : 11 Jun 2019 13:52  
Operator : HP/JU  
Sample : K3160-05 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jun 11 14:19:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 10 16:44:00 2019  
Response via : Initial Calibration



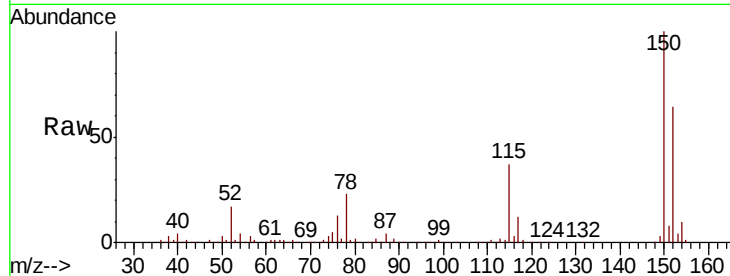


#1

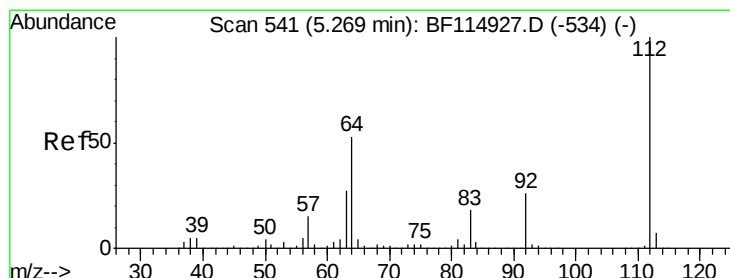
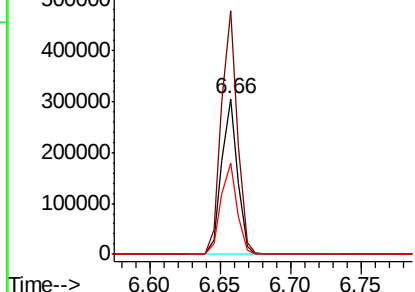
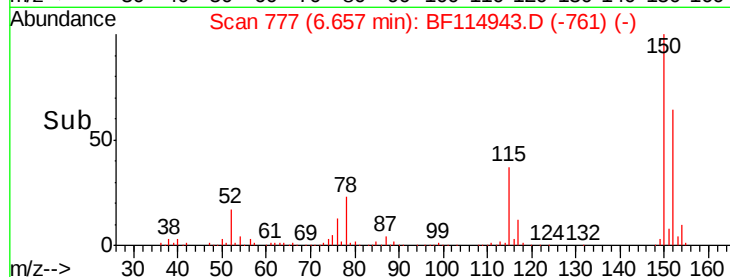
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.66 min Scan# 777  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 240717  
Ion Ratio Lower Upper  
152 100  
150 156.4 125.2 187.8  
115 58.5 45.0 67.4



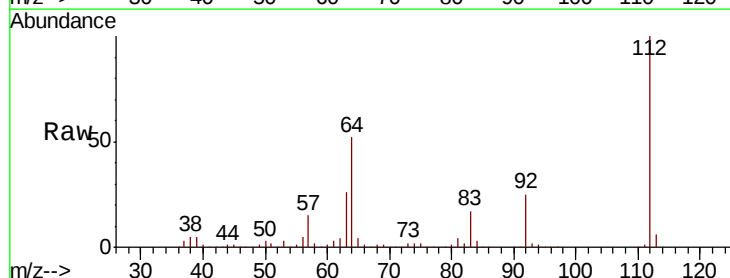
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



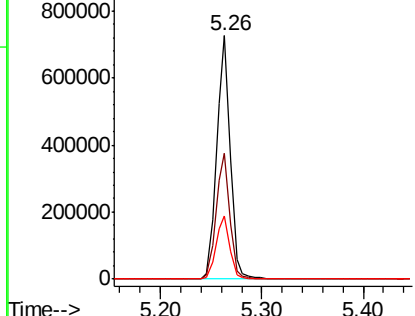
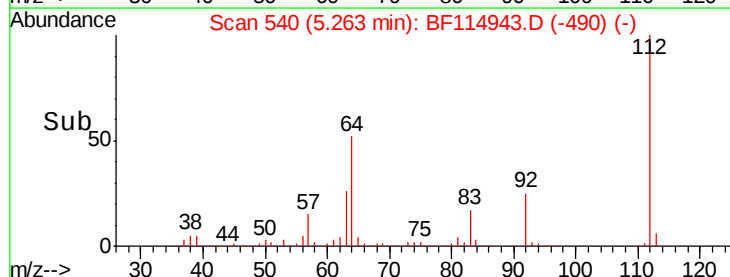
#5

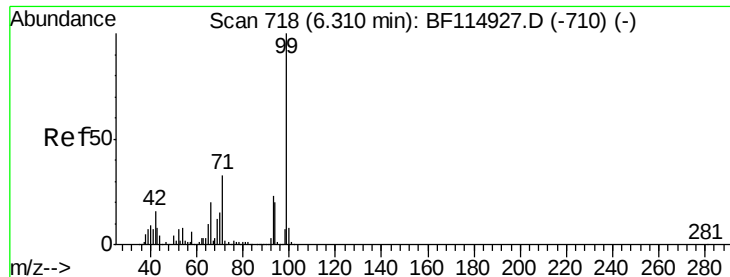
2-Fluorophenol  
Concen: 47.254 ng  
RT: 5.26 min Scan# 540  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion:112 Resp: 672107  
Ion Ratio Lower Upper  
112 100  
64 51.6 42.1 63.1  
63 25.9 21.8 32.8



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: 48.924 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

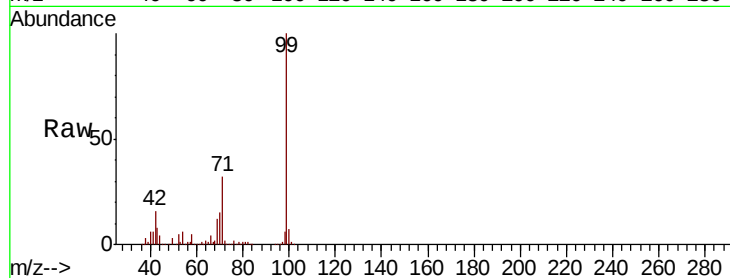
Tot Ion: 99 Resp: 839340

Ion Ratio Lower Upper

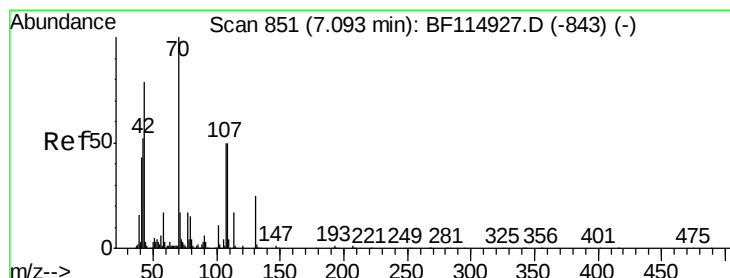
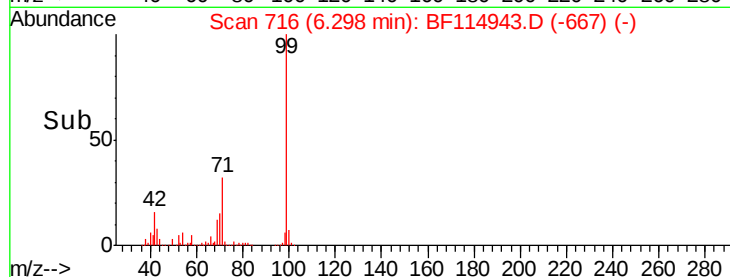
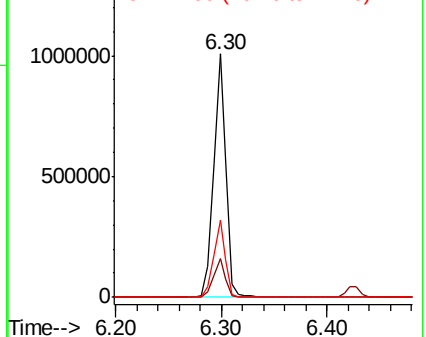
99 100

42 15.8 13.1 19.7

71 32.0 26.8 40.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.093 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.12 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Tgt Ion: 70 Resp: 65369

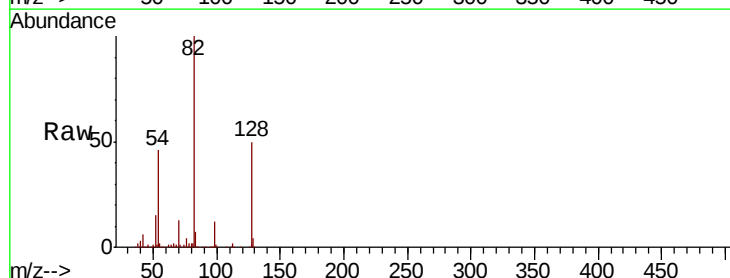
Ion Ratio Lower Upper

70 100

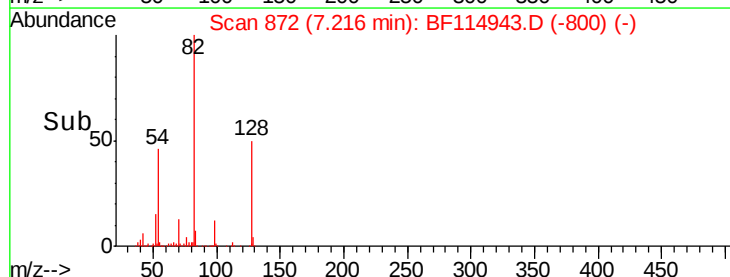
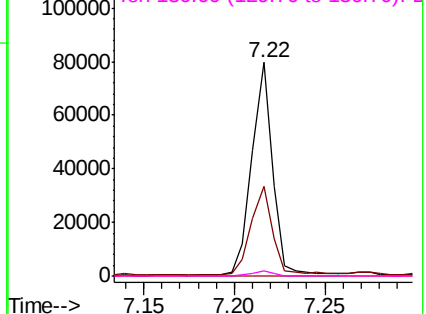
42 41.9 41.7 62.5

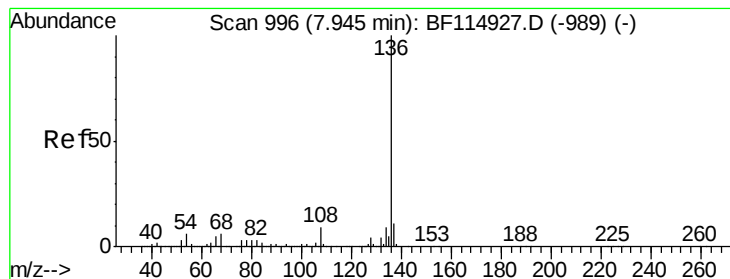
101 0.0 8.4 12.6#

130 2.2 19.9 29.9#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.94 min Scan# 995

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 924766

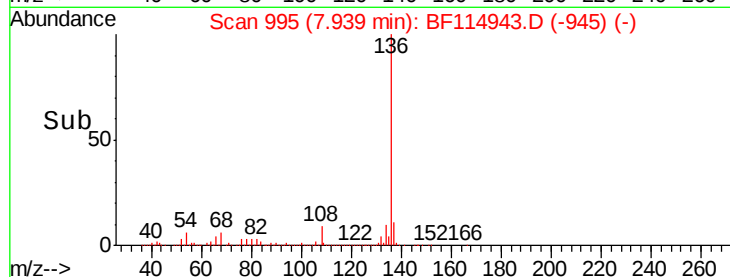
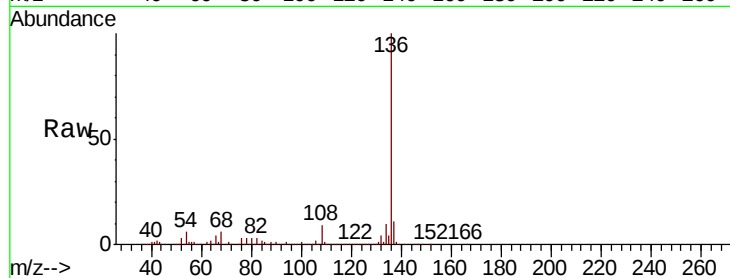
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.6

54 6.5 5.2 7.8

68 5.7 4.6 7.0

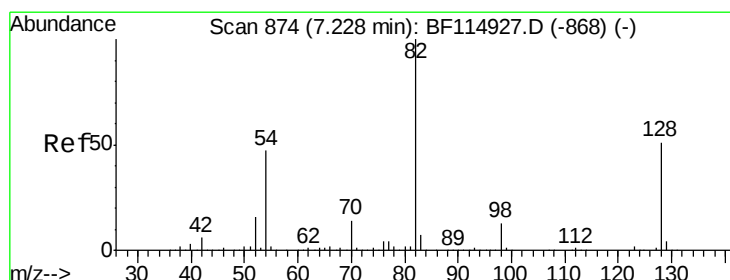
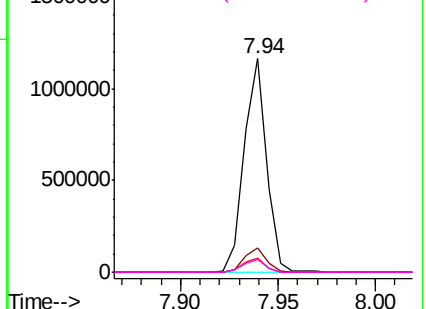


Abundance Ion 136.00 (135.70 to 136.70): E

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: 32.522 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

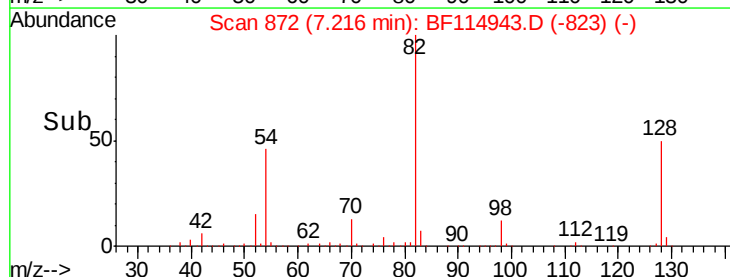
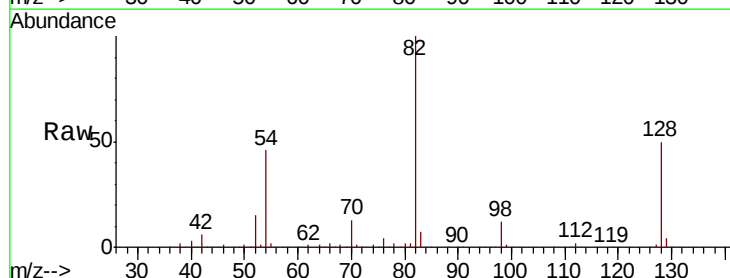
Tgt Ion: 82 Resp: 489489

Ion Ratio Lower Upper

82 100

128 50.5 40.9 61.3

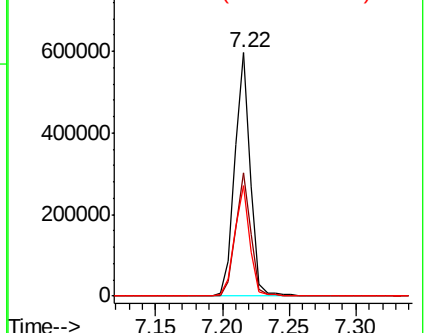
54 45.5 37.4 56.0

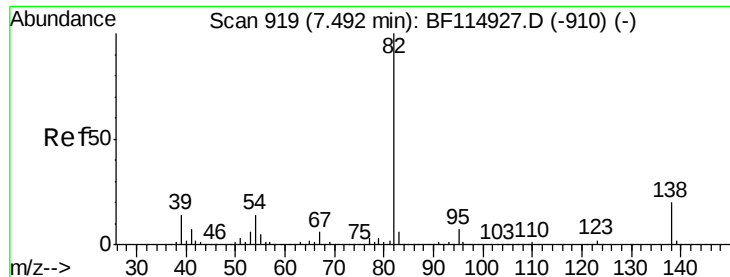


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.300 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.28 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

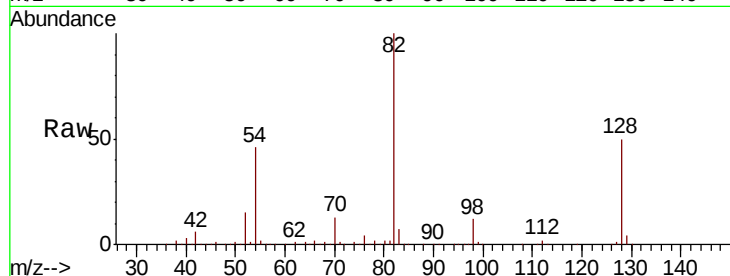
Tot Ion: 82 Resp: 480405

Ion Ratio Lower Upper

82 100

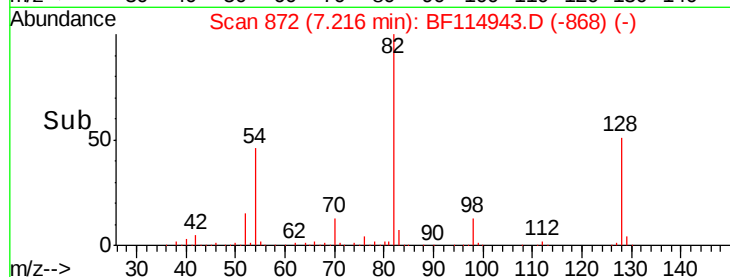
95 0.1 5.7 8.5#

138 0.0 16.4 24.6#

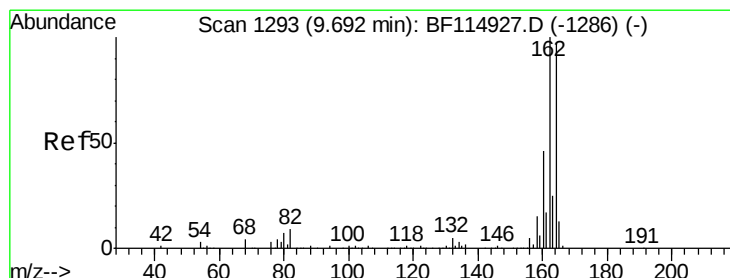


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): E

7.22



Time-->



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

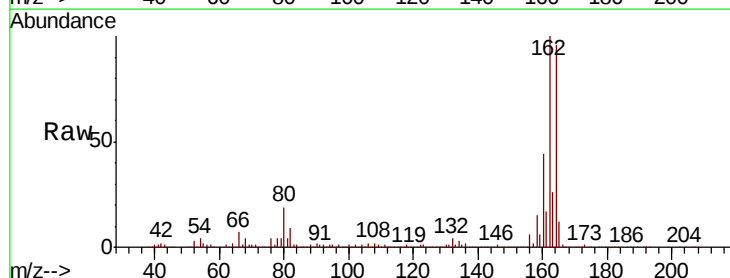
Tgt Ion: 164 Resp: 454839

Ion Ratio Lower Upper

164 100

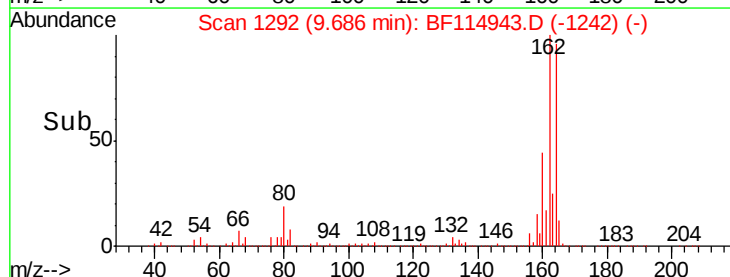
162 104.1 82.4 123.6

160 46.2 37.5 56.3

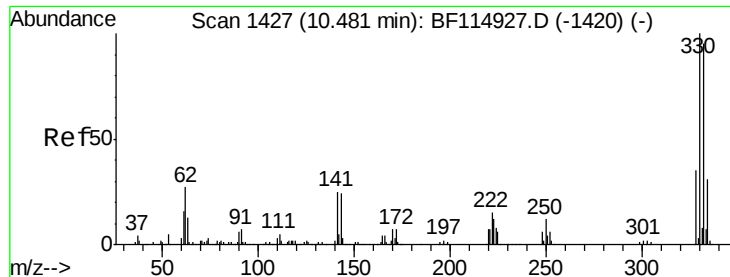


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

9.69



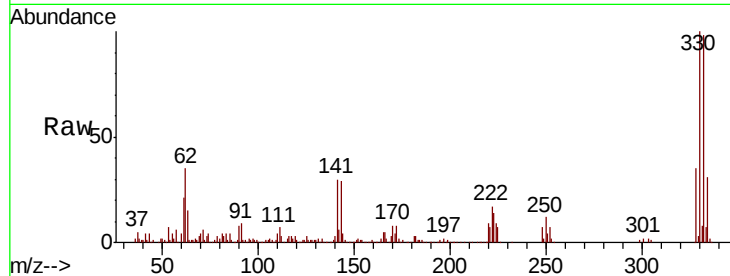
Time-->



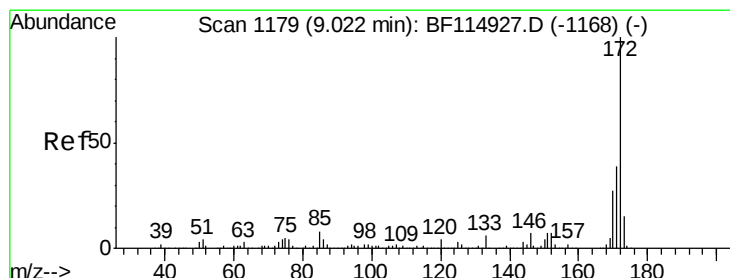
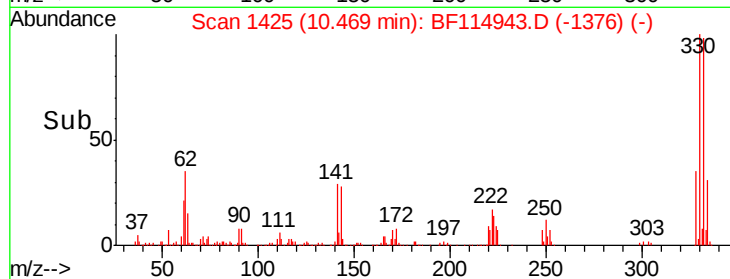
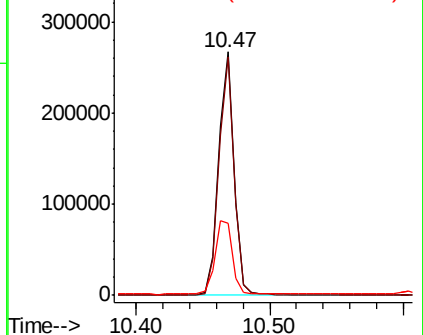
#42  
 2,4,6-Tribromophenol  
 Concen: 44.516 ng  
 RT: 10.47 min Scan# 1425  
 Delta R.T. -0.01 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.4  | 114.6 |
| 141     | 34.1  | 26.8  | 40.2  |

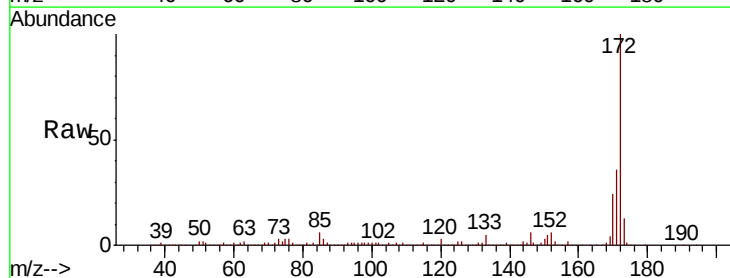


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

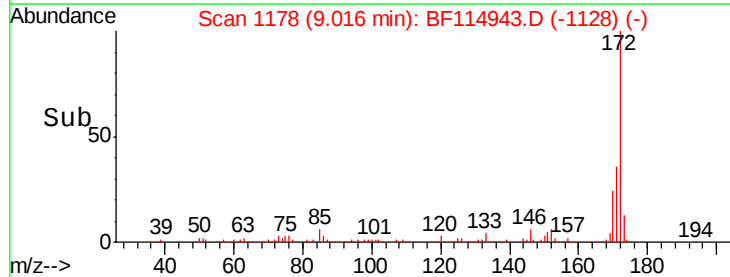
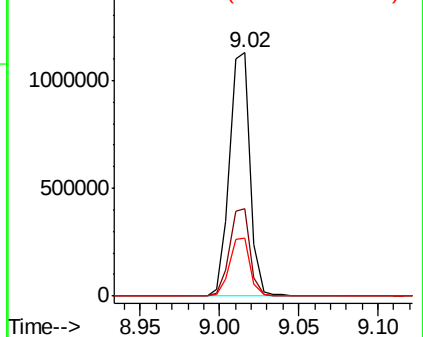


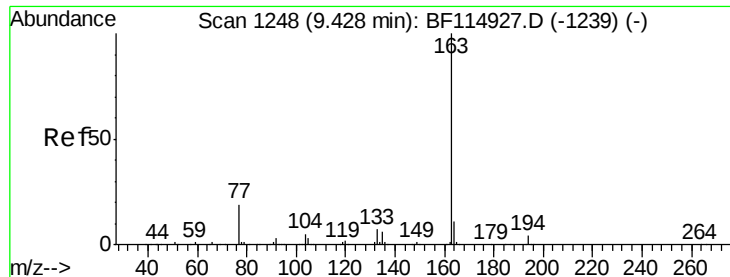
#45  
 2-Fluorobiphenyl  
 Concen: 35.712 ng  
 RT: 9.02 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 31.3  | 46.9  |
| 170     | 23.9  | 21.4  | 32.0  |



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

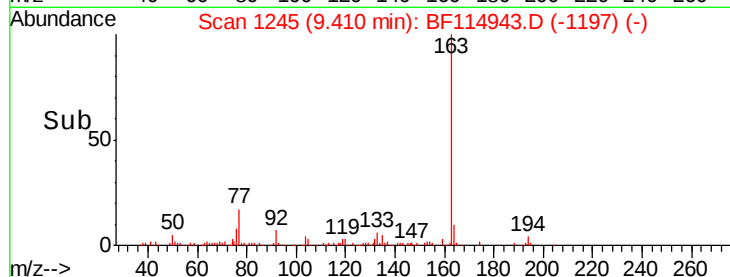
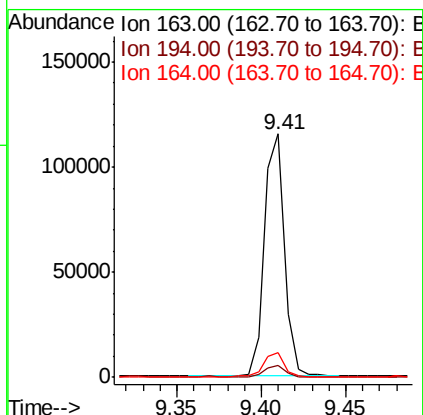
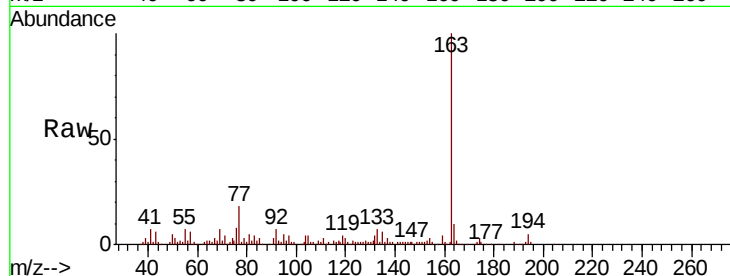




#50  
Dimethylphthalate  
Concen: 2.788 ng  
RT: 9.41 min Scan# 1245  
Delta R.T. -0.02 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

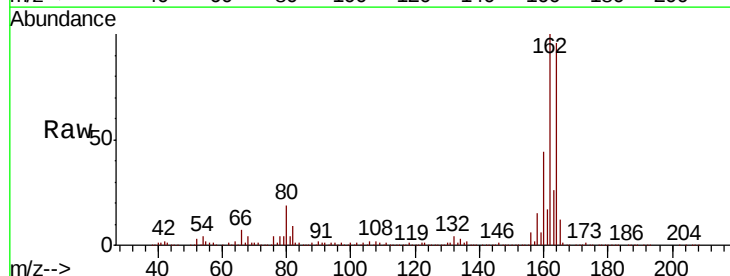
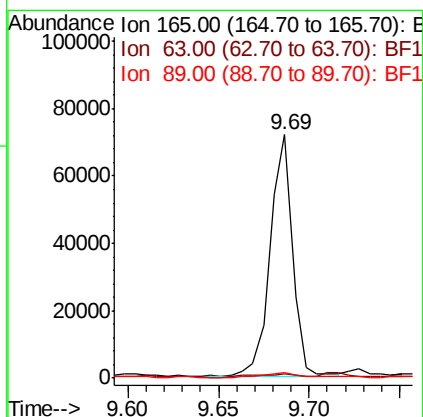
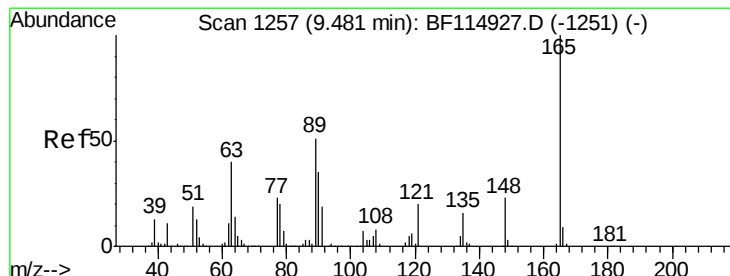
Instrument :  
BNA\_F  
ClientSampleId :

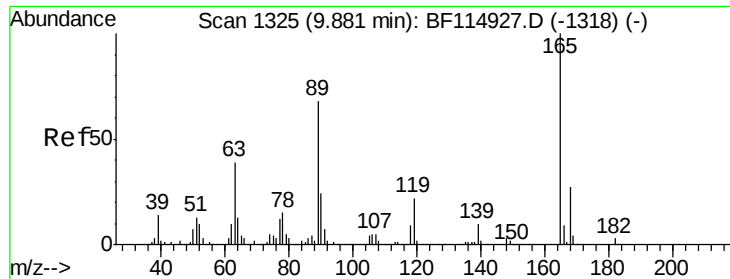
Tot Ion:163 Resp: 95324  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.4 5.0  
164 10.0 8.7 13.1



#51  
2,6-Dinitrotoluene  
Concen: 7.860 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. 0.21 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion:165 Resp: 61713  
Ion Ratio Lower Upper  
165 100  
63 1.6 38.3 57.5#  
89 2.4 40.8 61.2#

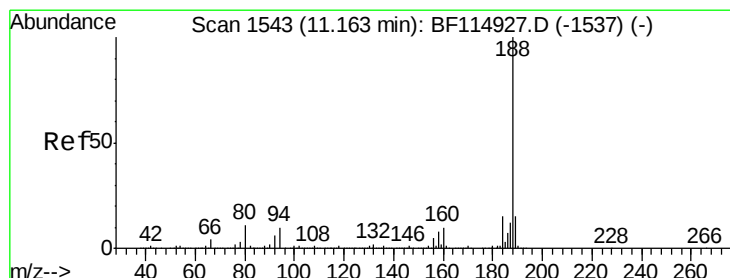
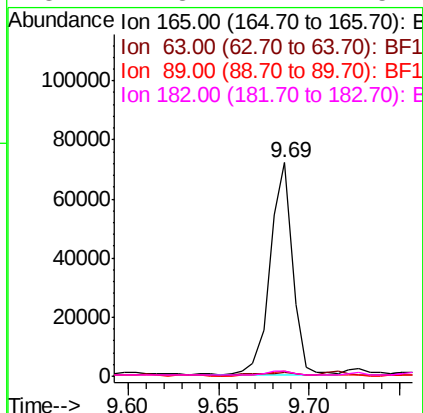
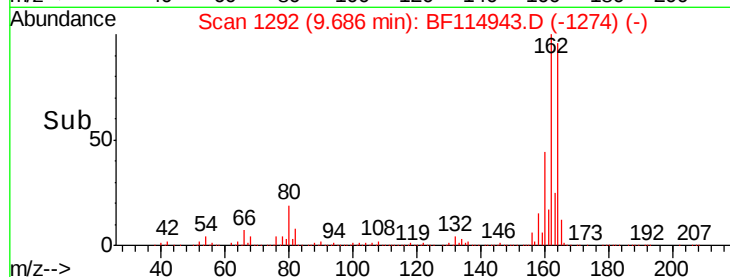
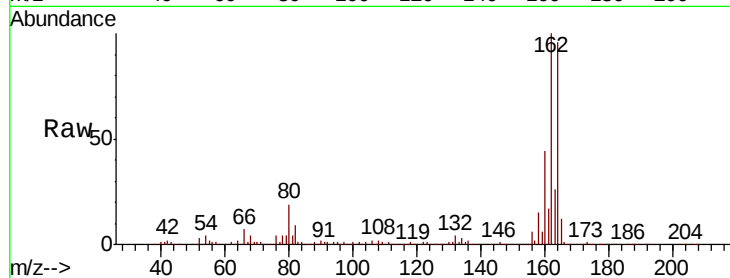




#57  
 2,4-Dinitrotoluene  
 Concen: 6.218 ng  
 RT: 9.69 min Scan# 1292  
 Delta R.T. -0.19 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

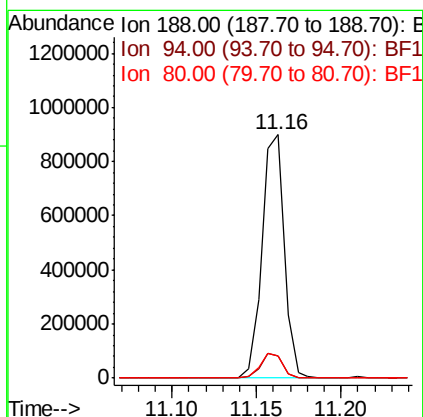
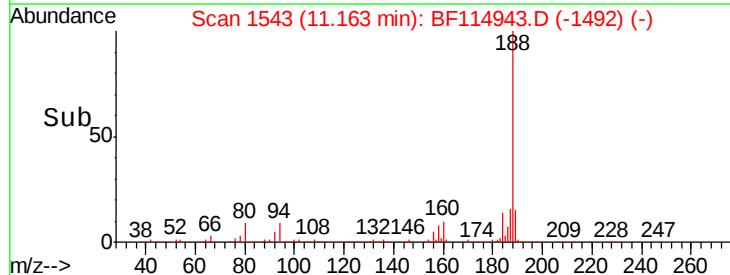
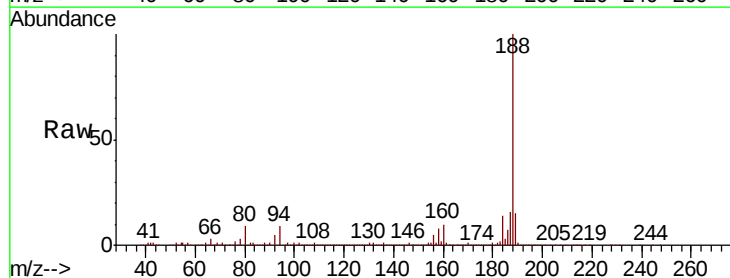
Instrument :  
 BNA\_F  
 ClientSampleId :

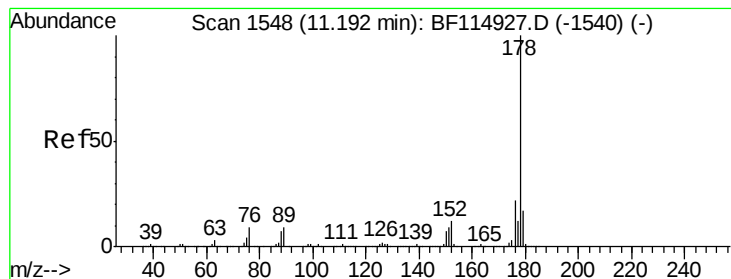
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 31.8  | 47.6# |
| 89      | 2.4   | 54.2  | 81.2# |
| 182     | 2.3   | 2.1   | 3.1   |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.16 min Scan# 1543  
 Delta R.T. 0.00 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 8.1   | 12.1  |
| 80      | 9.1   | 8.6   | 12.8  |





#71

Phenanthrene

Concen: 6.742 ng

RT: 11.18 min Scan# 1546

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

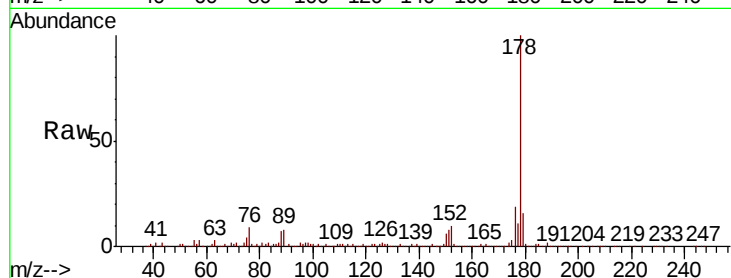
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 270455

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.1  | 17.4  | 26.2  |
| 179 | 15.9  | 13.6  | 20.4  |

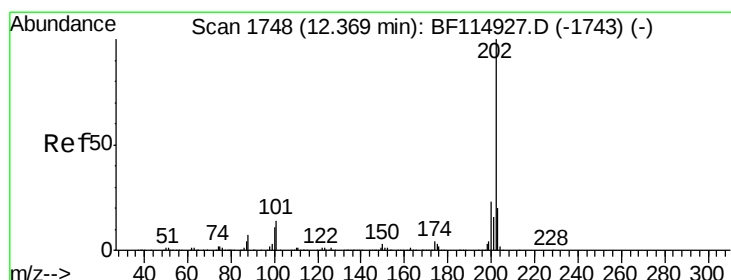
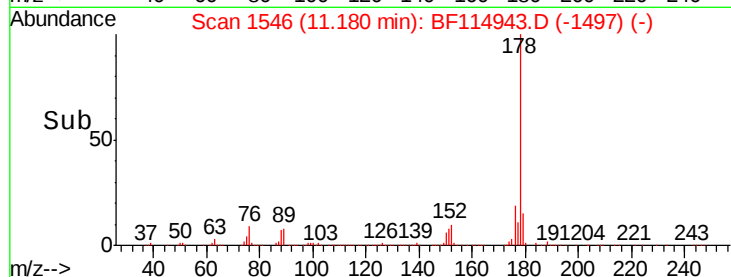
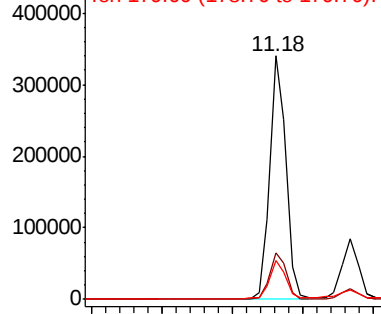


Abundance

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: 7.197 ng

RT: 12.36 min Scan# 1747

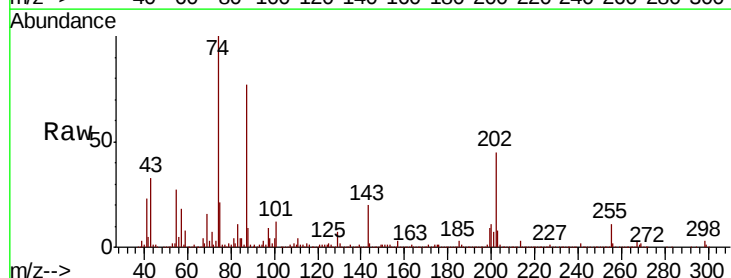
Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Tgt Ion:202 Resp: 298618

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 26.6  | 0.0   | 34.3  |
| 203 | 17.9  | 0.0   | 39.6  |

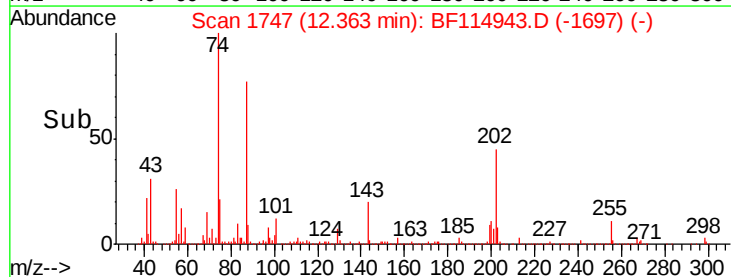
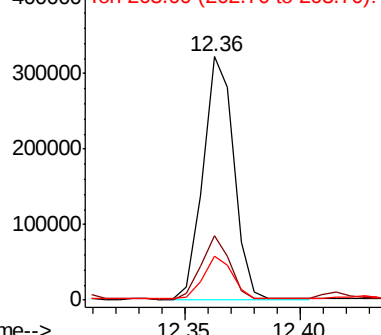


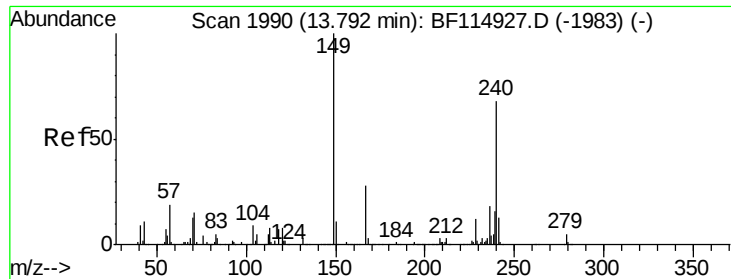
Abundance

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

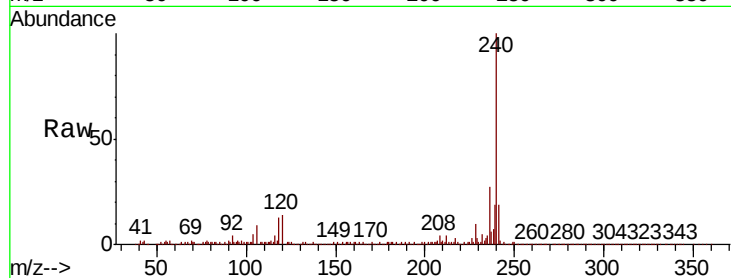




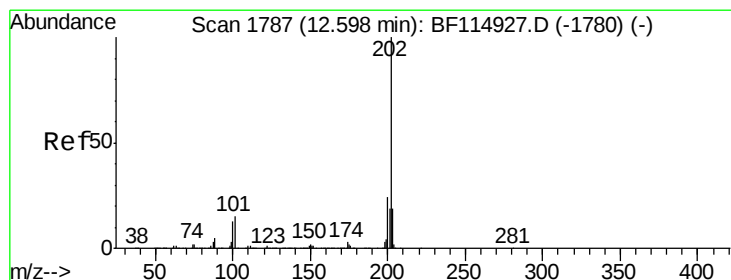
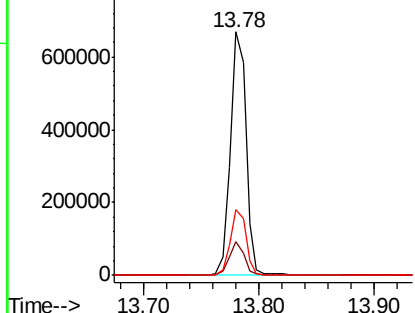
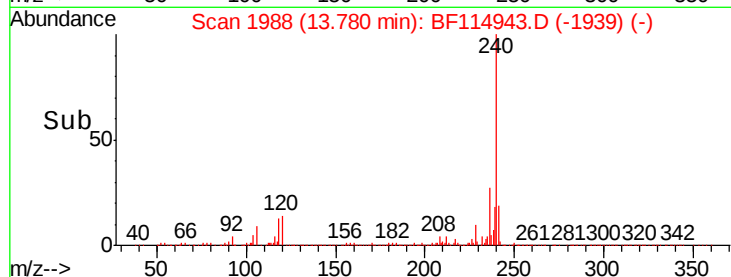
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.78 min Scan# 1988  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 628472  
Ion Ratio Lower Upper  
240 100  
120 14.0 9.2 13.8#  
236 26.9 21.7 32.5

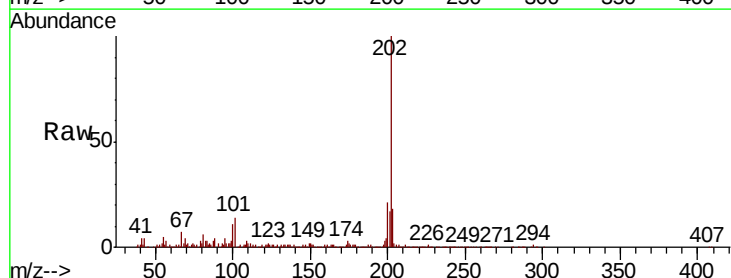


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

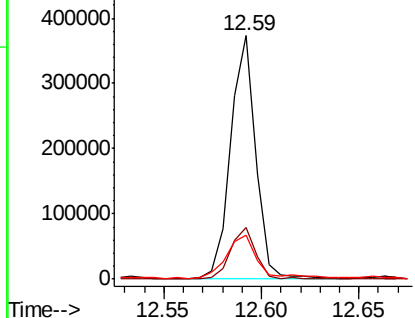
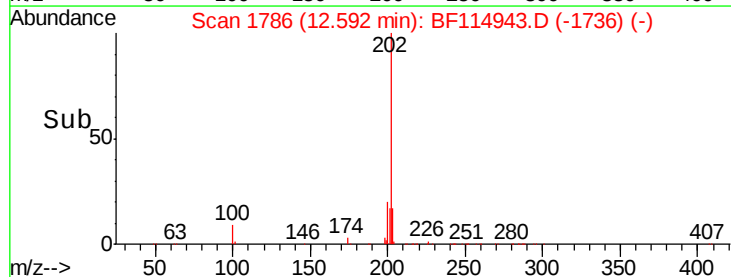


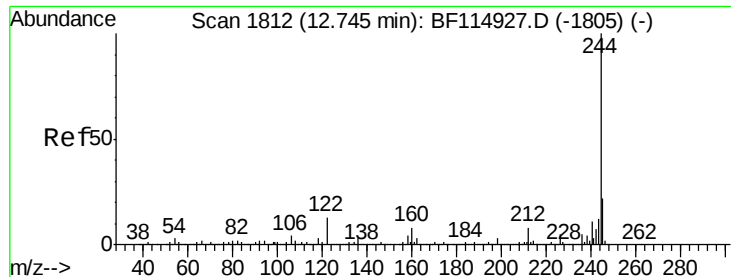
#78  
Pyrene  
Concen: 6.055 ng  
RT: 12.59 min Scan# 1786  
Delta R.T. -0.01 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Tgt Ion:202 Resp: 331432  
Ion Ratio Lower Upper  
202 100  
200 21.3 18.9 28.3  
203 18.0 15.2 22.8



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

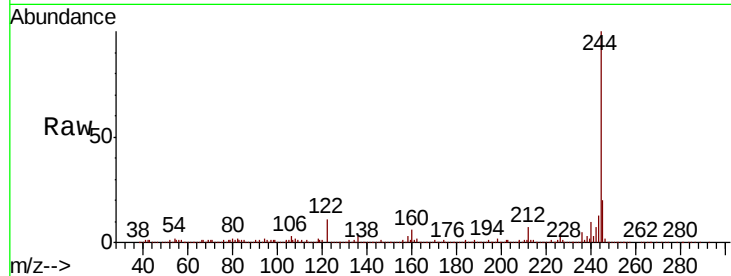




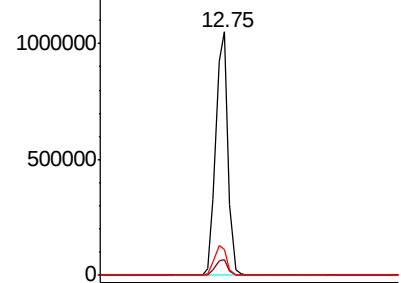
#79  
 Terphenyl-d14  
 Concen: 30.062 ng  
 RT: 12.75 min Scan# 1812  
 Delta R.T. 0.00 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

Instrument :  
 BNA\_F  
 ClientSampled :

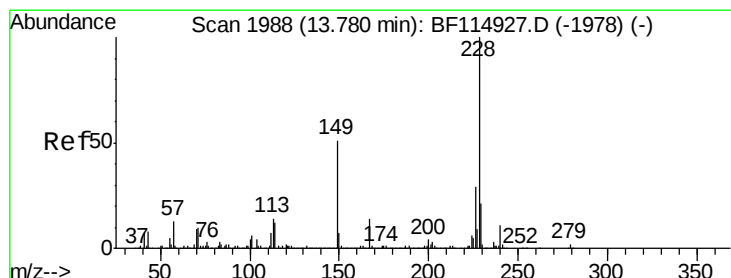
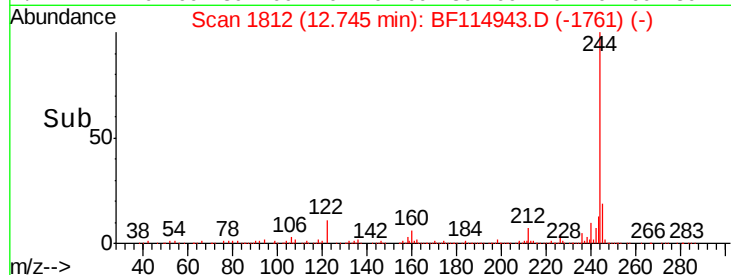
Tot Ion:244 Resp: 950012  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 6.2 9.2  
 122 10.8 10.2 15.4



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

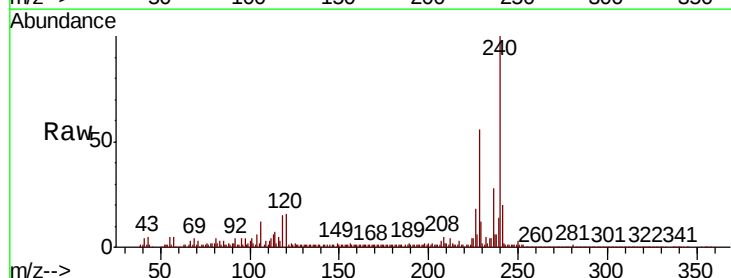


Time-->

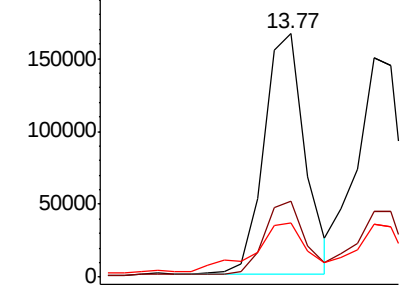


#81  
 Benzo(a)anthracene  
 Concen: 3.576 ng  
 RT: 13.77 min Scan# 1987  
 Delta R.T. -0.01 min  
 Lab File: BF114943.D  
 Acq: 11 Jun 2019 13:52

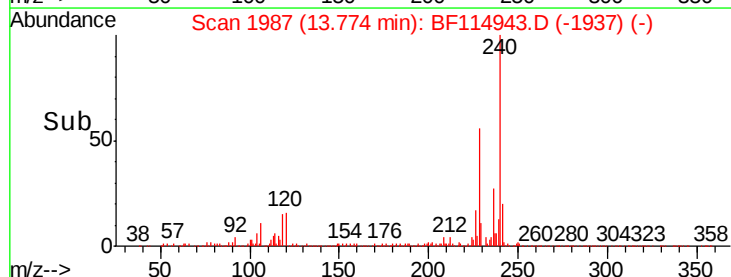
Tgt Ion:228 Resp: 166186  
 Ion Ratio Lower Upper  
 228 100  
 226 31.3 22.8 34.2  
 229 22.0 16.6 25.0

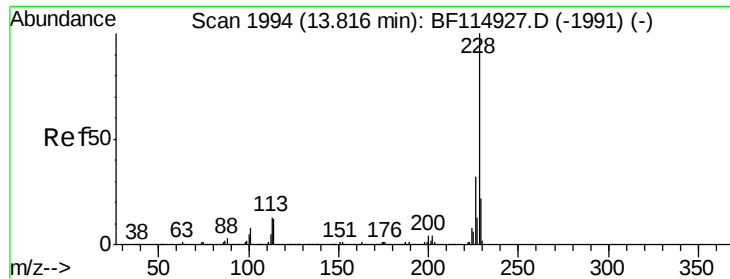


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E



Time-->





#83

Chrysene

Concen: 3.463 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

Instrument :

BNA\_F

ClientSampleId :

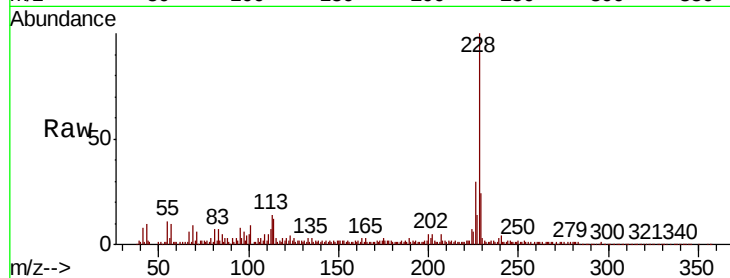
Tot Ion:228 Resp: 161587

Ion Ratio Lower Upper

228 100

226 30.3 25.8 38.8

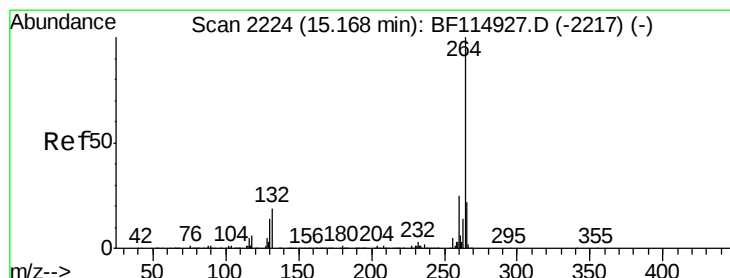
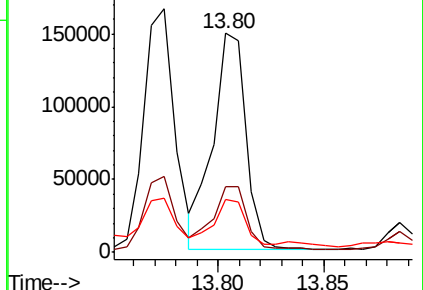
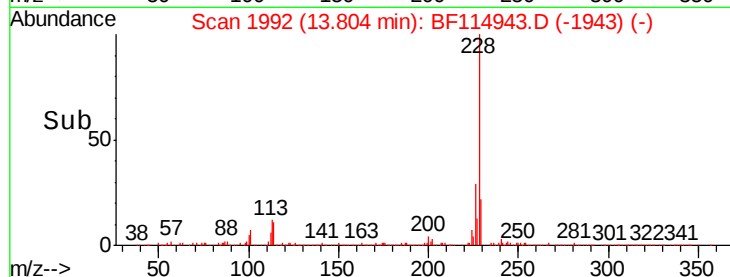
229 24.1 17.2 25.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.17 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BF114943.D

Acq: 11 Jun 2019 13:52

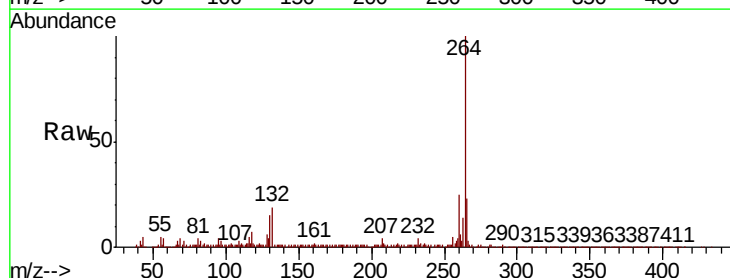
Tgt Ion:264 Resp: 619662

Ion Ratio Lower Upper

264 100

260 24.9 19.7 29.5

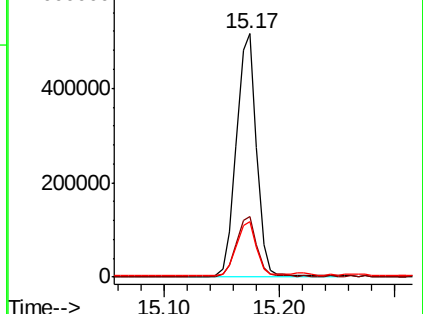
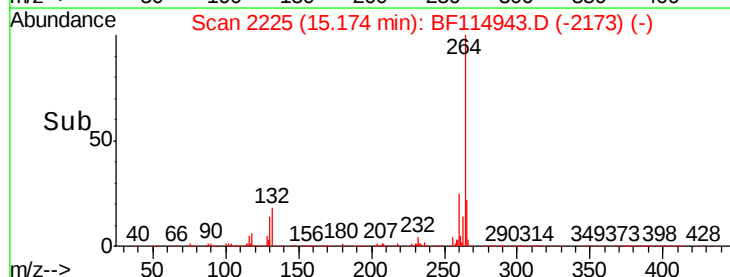
265 22.9 17.5 26.3

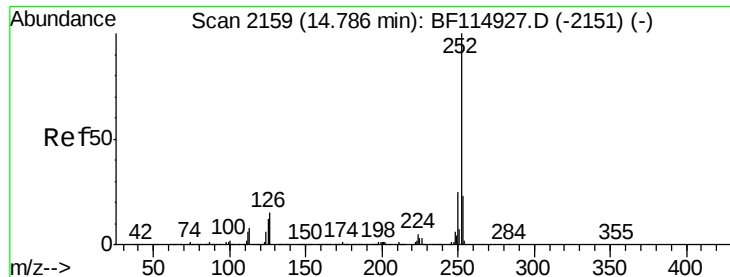


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

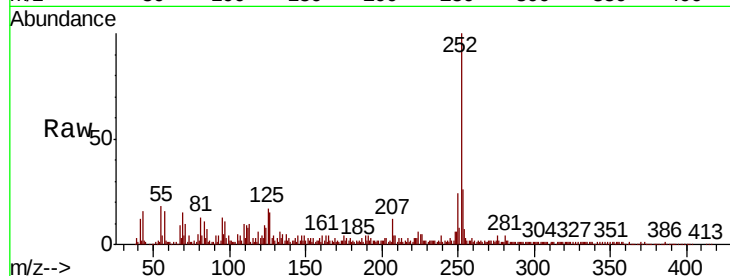




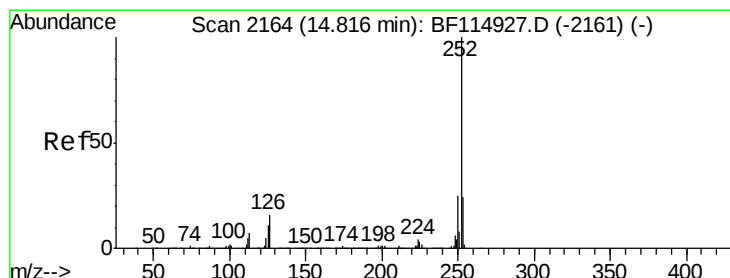
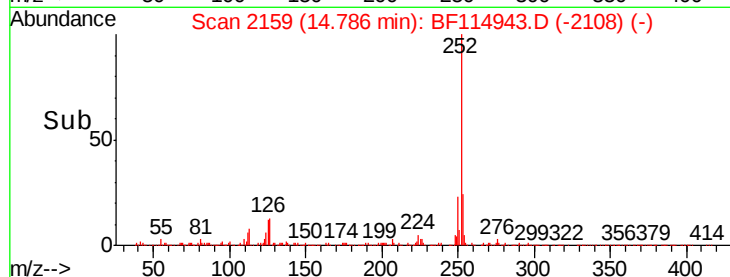
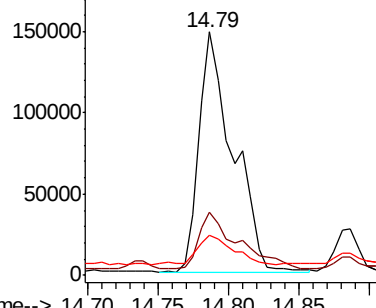
#88  
Benzo(b)fluoranthene  
Concen: 6.151 ng  
RT: 14.79 min Scan# 2159  
Delta R.T. 0.00 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.6  | 28.0  |
| 125     | 16.7  | 9.5   | 14.3# |

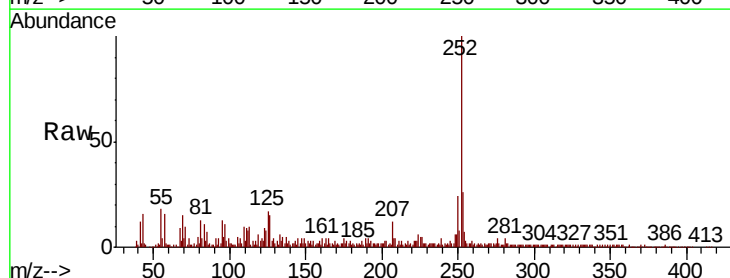


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

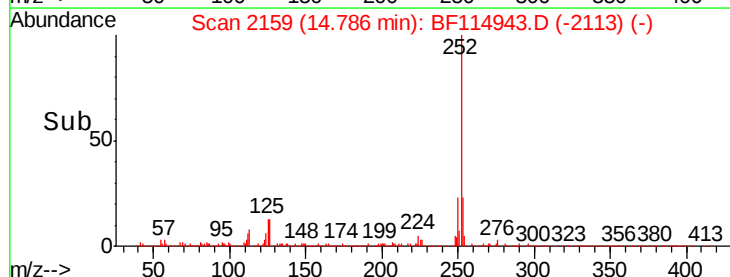
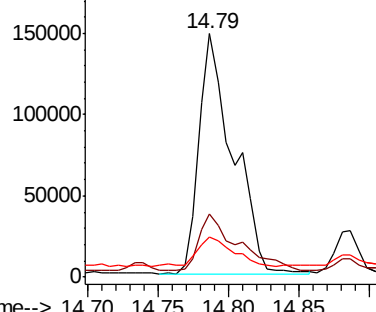


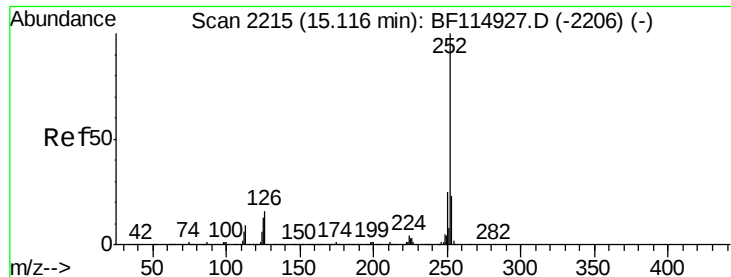
#89  
Benzo(k)fluoranthene  
Concen: 7.088 ng  
RT: 14.79 min Scan# 2159  
Delta R.T. -0.03 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.6  | 28.0  |
| 125     | 16.7  | 9.2   | 13.8# |



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

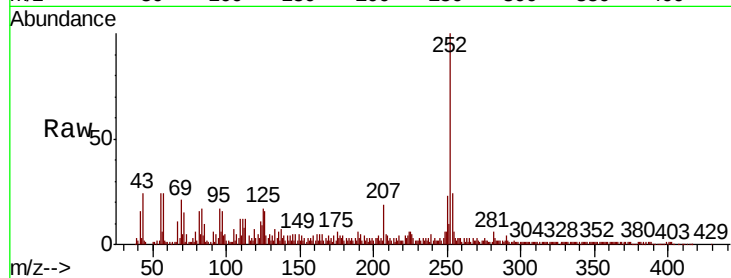




#90  
Benzo(a)pyrene  
Concen: 3.808 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. 0.00 min  
Lab File: BF114943.D  
Acq: 11 Jun 2019 13:52

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 18.2  | 27.2  |
| 125     | 16.7  | 10.1  | 15.1  |



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

