

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
 Data File : BF116453.D  
 Acq On : 21 Aug 2019 1:48  
 Operator : HP/JU  
 Sample : K4095-09 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 21 06:57:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 06:03:31 2019  
 Response via : Initial Calibration

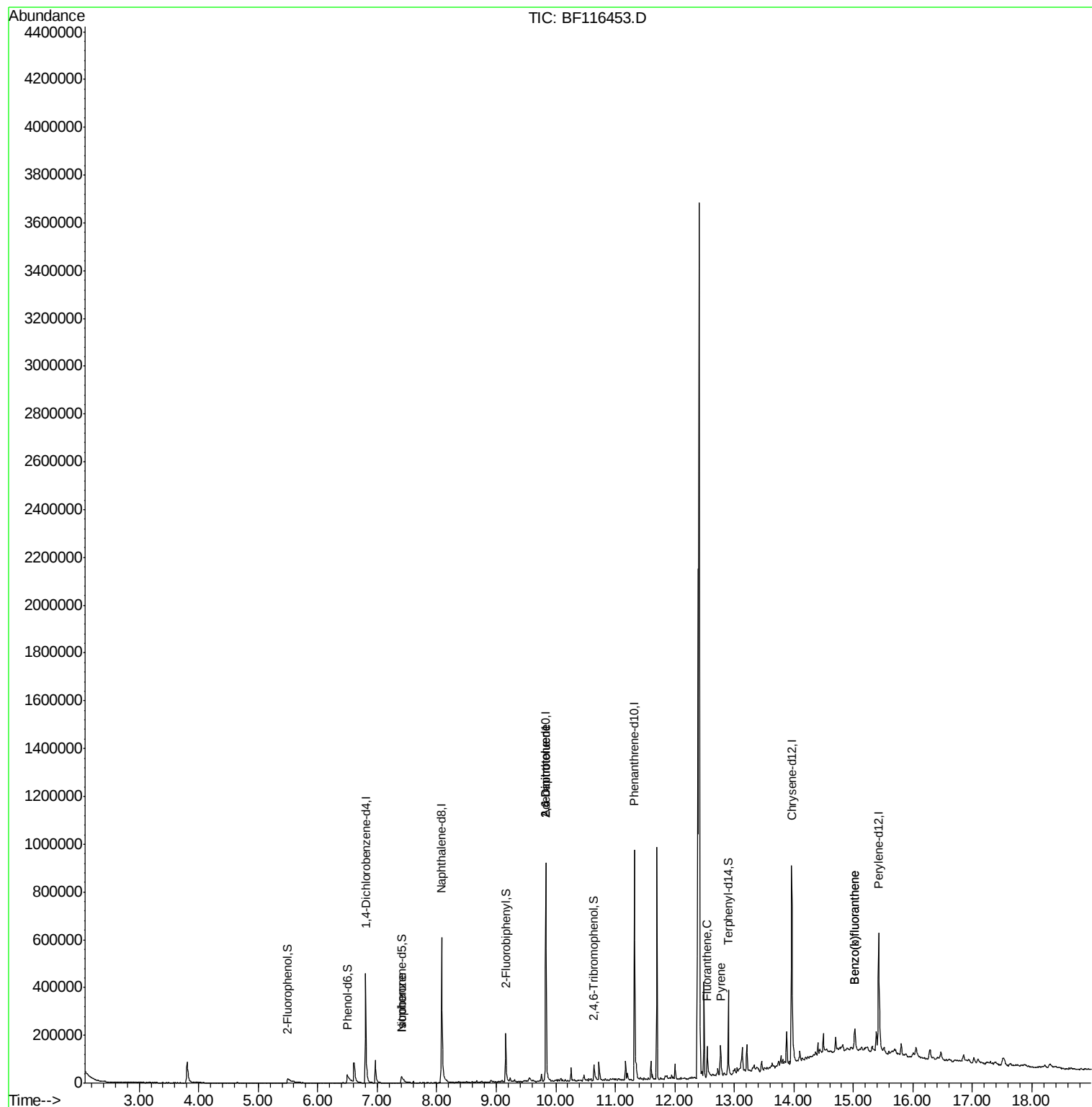
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 81113    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.09  | 136  | 347342   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.83  | 164  | 190657   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.32 | 188  | 362289   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12            | 13.96 | 240  | 271785   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12            | 15.42 | 264  | 270297   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 32762    | 6.76  | ng    | 0.06     |
| 7) Phenol-d6                | 6.50  | 99   | 56399    | 9.23  | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 33893    | 5.63  | ng    | 0.02     |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330  | 14854    | 8.04  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 82860    | 8.14  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.90 | 244  | 111487   | 8.64  | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.41  | 82   | 33893    | 2.946 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene      | 9.83  | 165  | 24775    | 8.782 | ng    | # 28     |
| 57) 2,4-Dinitrotoluene      | 9.83  | 165  | 24775    | 6.596 | ng    | # 20     |
| 75) Fluoranthene            | 12.54 | 202  | 52269    | 2.696 | ng    | 99       |
| 78) Pyrene                  | 12.77 | 202  | 52836    | 2.579 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.02 | 252  | 33426    | 2.139 | ng    | # 89     |
| 89) Benzo(k)fluoranthene    | 15.02 | 252  | 33426    | 2.196 | ng    | # 88     |

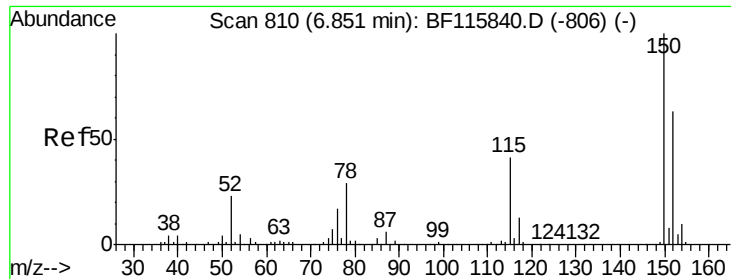
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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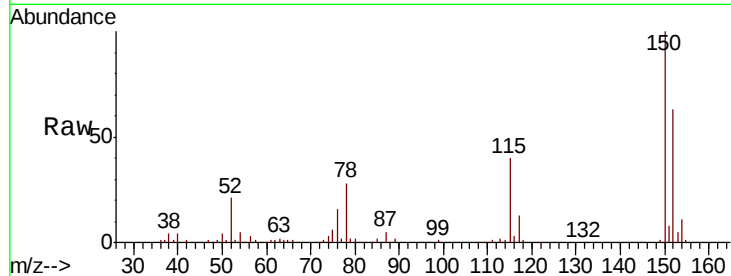


#1

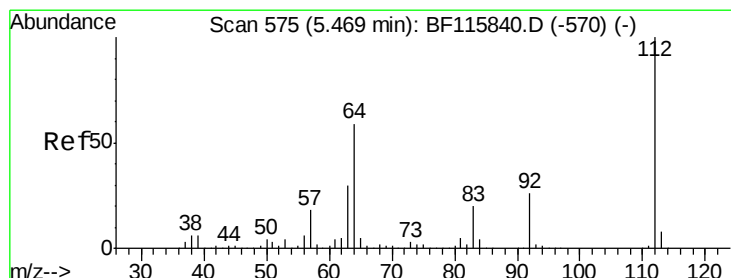
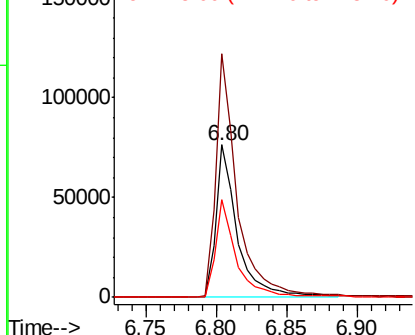
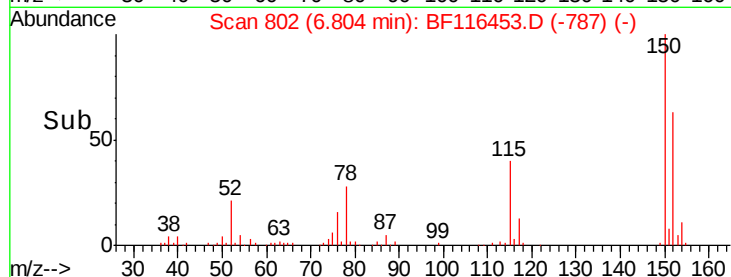
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.80 min Scan# 802  
 Delta R.T. -0.01 min  
 Lab File: BF116453.D  
 Acq: 21 Aug 2019 1:48

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 81113  
 Ion Ratio Lower Upper  
 152 100  
 150 159.5 126.2 189.2  
 115 63.8 49.9 74.9



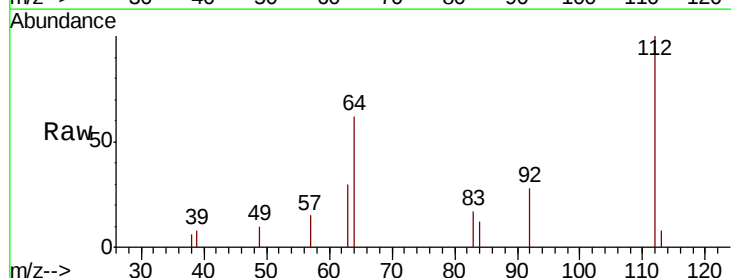
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



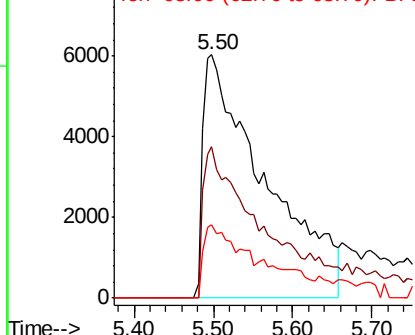
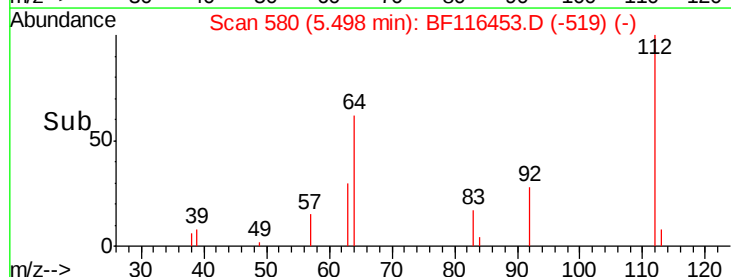
#5

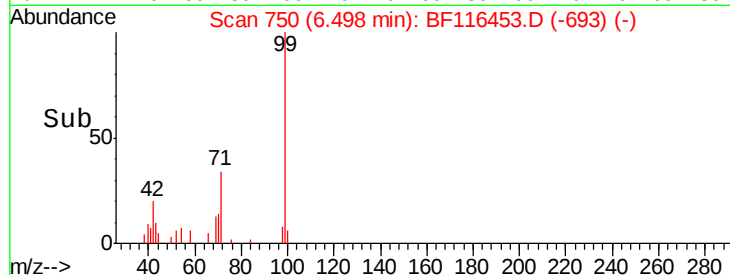
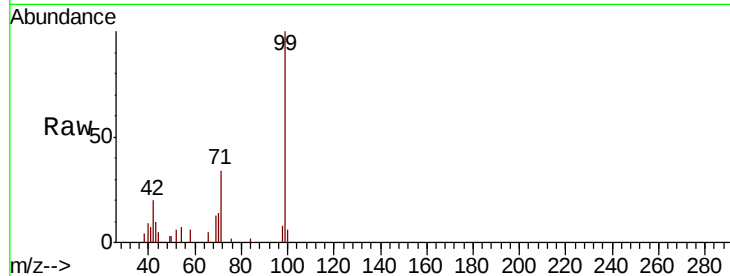
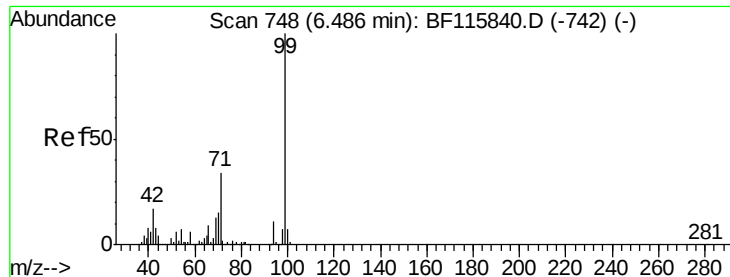
2-Fluorophenol  
 Concen: 6.762 ng  
 RT: 5.50 min Scan# 580  
 Delta R.T. 0.06 min  
 Lab File: BF116453.D  
 Acq: 21 Aug 2019 1:48

Tgt Ion:112 Resp: 32762  
 Ion Ratio Lower Upper  
 112 100  
 64 62.1 45.4 68.2  
 63 30.3 23.7 35.5



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: 9.226 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.04 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

Instrument :

BNA\_F

ClientSampleId :

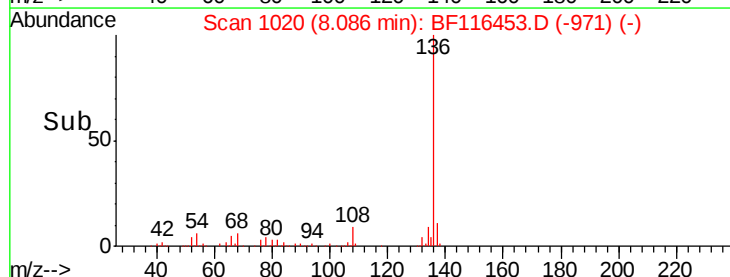
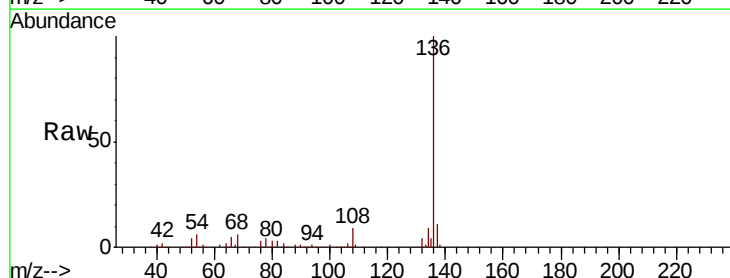
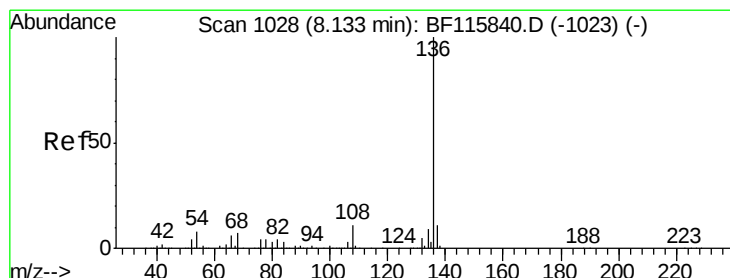
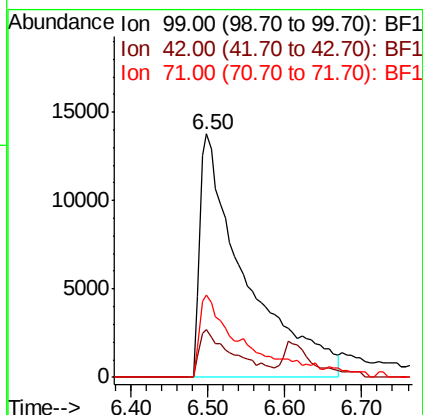
Tot Ion: 99 Resp: 56399

Ion Ratio Lower Upper

99 100

42 19.8 13.8 20.8

71 33.6 27.3 40.9



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

Tgt Ion: 136 Resp: 347342

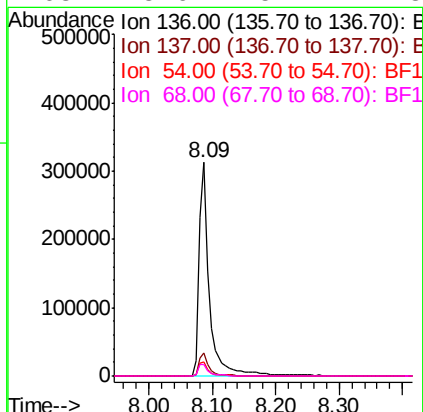
Ion Ratio Lower Upper

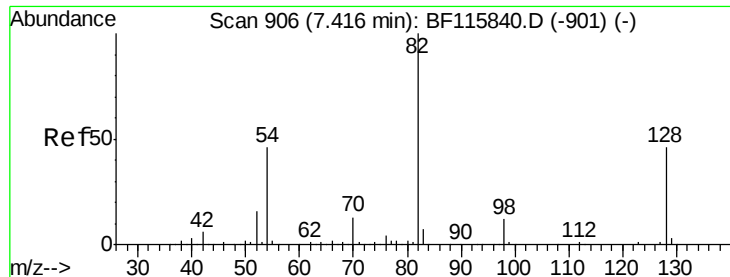
136 100

137 10.5 9.0 13.4

54 6.4 5.8 8.6

68 5.6 5.2 7.8

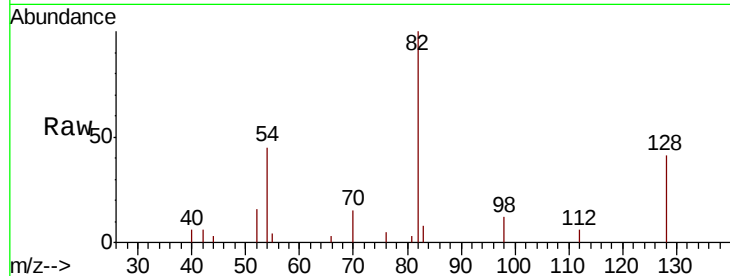




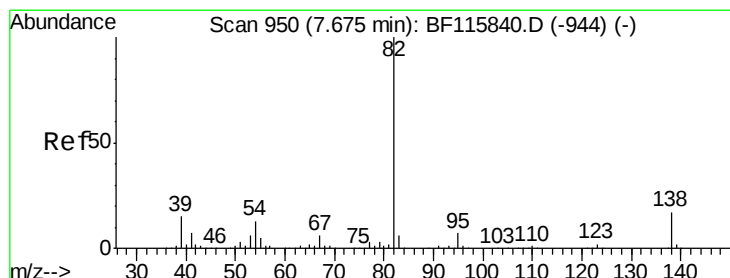
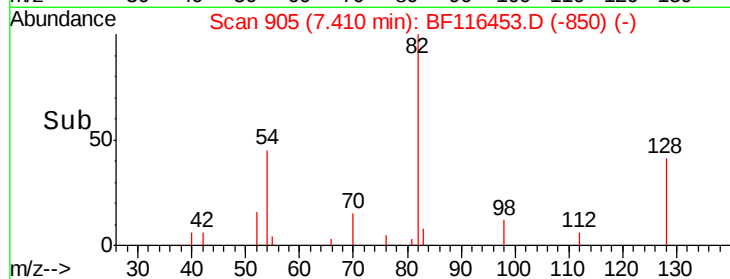
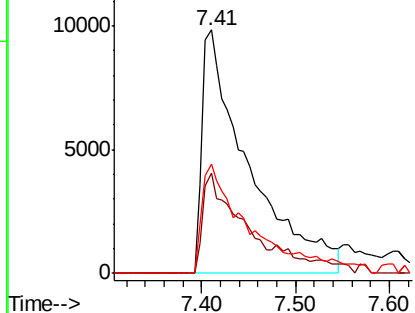
#23  
Nitrobenzene-d5  
Concen: 5.633 ng  
RT: 7.41 min Scan# 905  
Delta R.T. 0.02 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 33893  
Ion Ratio Lower Upper  
82 100  
128 41.2 36.5 54.7  
54 45.0 36.0 54.0

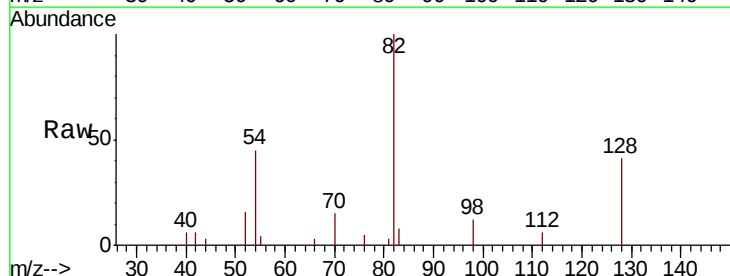


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

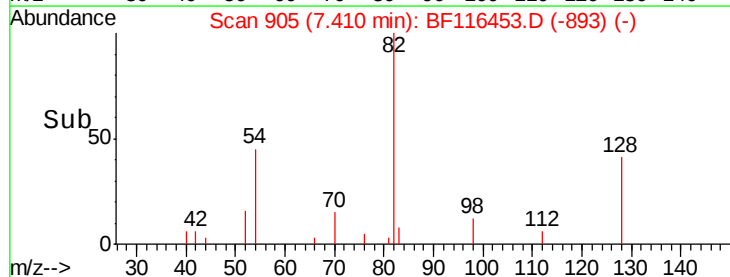
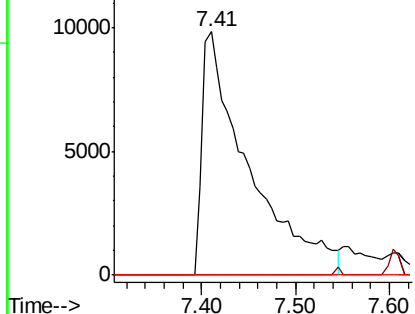


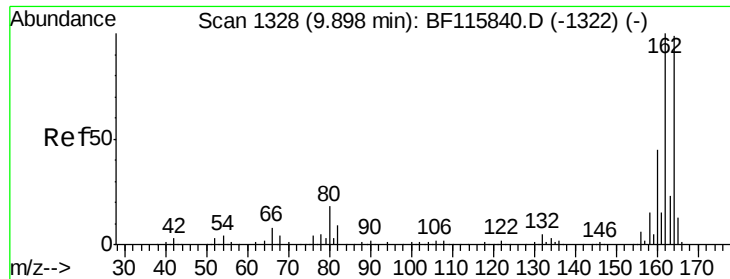
#25  
Isophorone  
Concen: 2.946 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.23 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

Tgt Ion: 82 Resp: 33893  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 14.5 21.7#



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

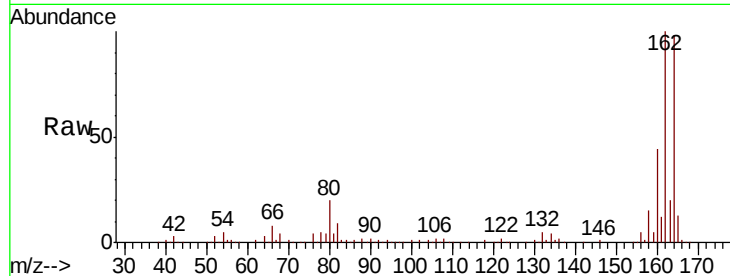




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.02 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 82.6  | 124.0 |
| 160     | 44.9  | 37.6  | 56.4  |

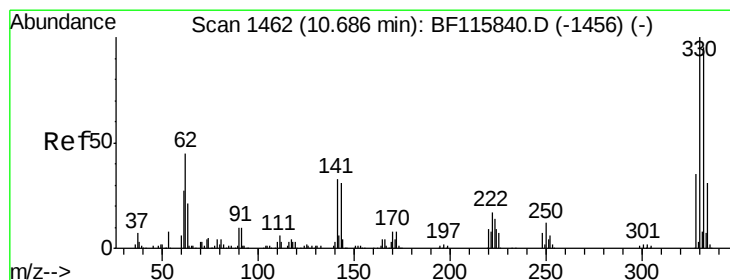
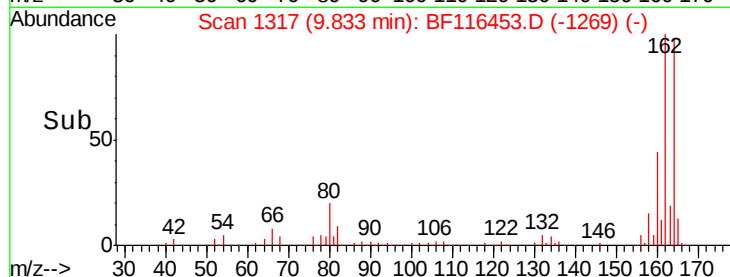
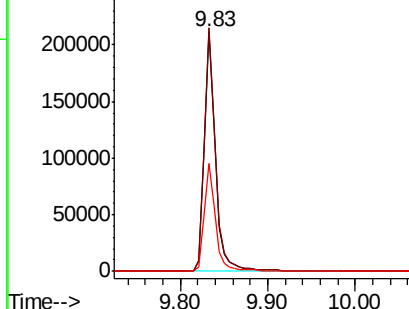


Abundance

Ion 164.00 (163.70 to 164.70): E

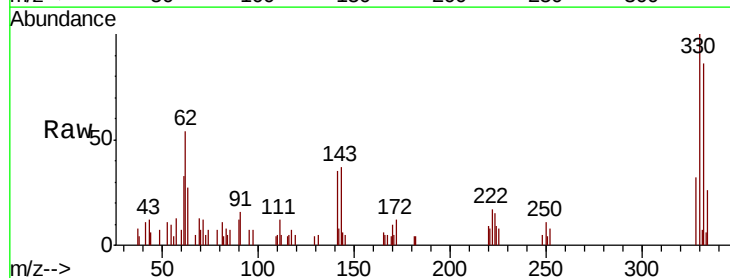
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 8.036 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.5  | 76.8  | 115.2 |
| 141     | 39.4  | 26.3  | 39.5  |

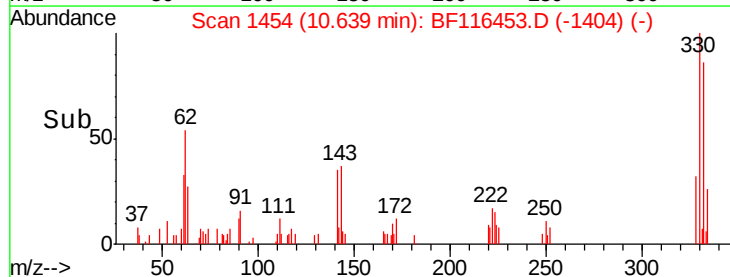
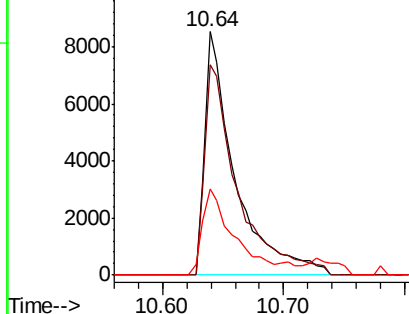


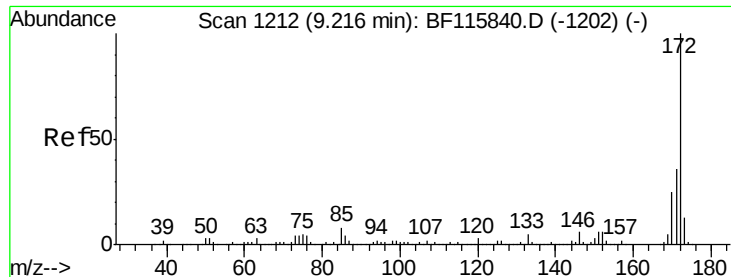
Abundance

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

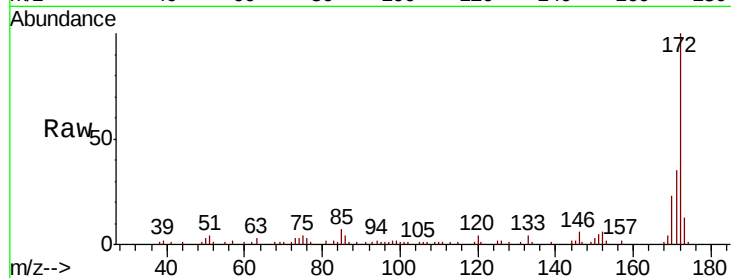




#45  
 2-Fluorobiphenyl  
 Concen: 8.140 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF116453.D  
 Acq: 21 Aug 2019 1:48

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.6  | 44.4  |
| 170     | 23.0  | 20.1  | 30.1  |

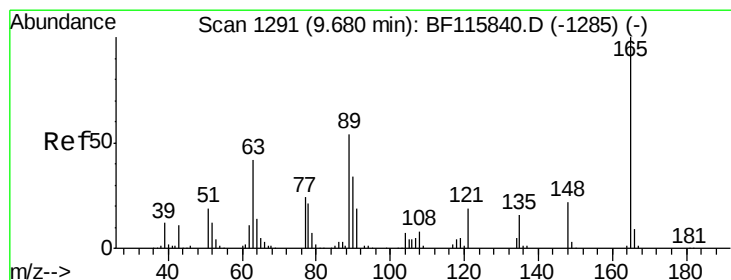
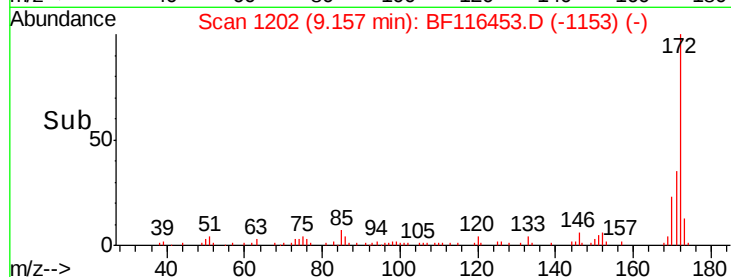
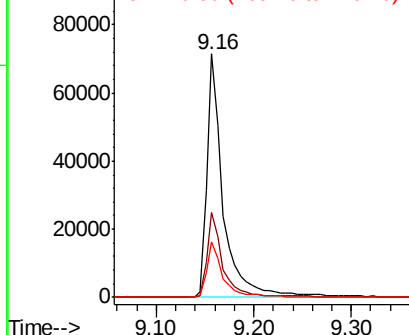


Abundance

Ion 172.00 (171.70 to 172.70): E

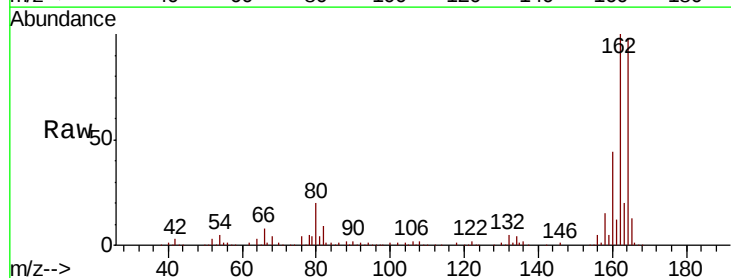
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51  
 2,6-Dinitrotoluene  
 Concen: 8.782 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. 0.19 min  
 Lab File: BF116453.D  
 Acq: 21 Aug 2019 1:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 38.2  | 57.2# |
| 89      | 1.2   | 42.9  | 64.3# |

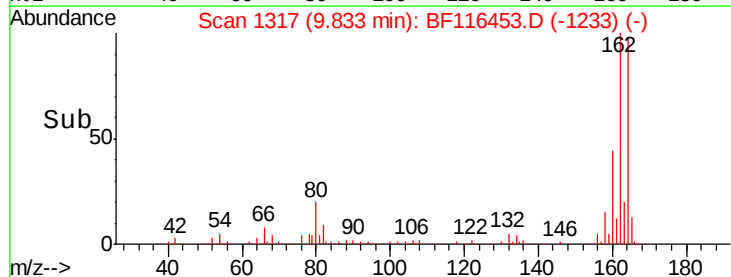
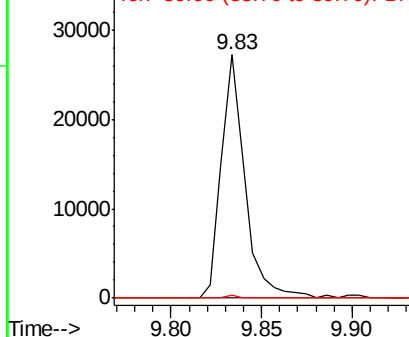


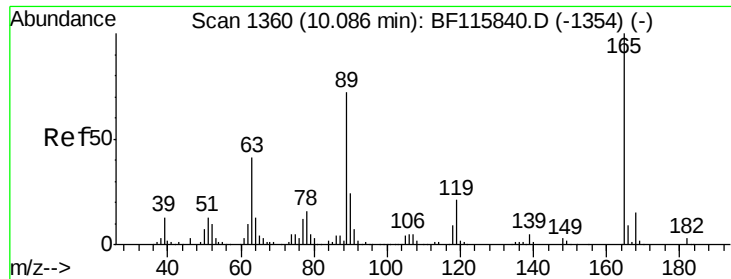
Abundance

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: 6.596 ng

RT: 9.83 min Scan# 1317

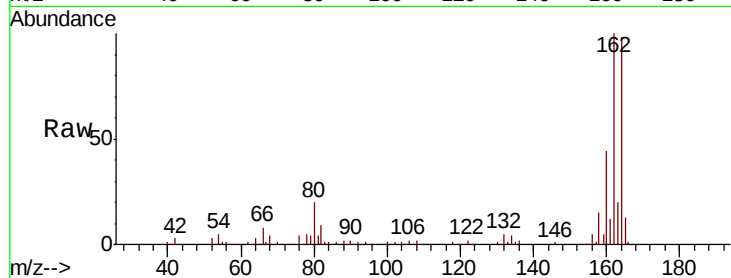
Delta R.T. -0.22 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 24775      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 39.6 59.4# |
| 89          | 1.2   | 62.2 93.2# |
| 182         | 0.0   | 2.1 3.1#   |

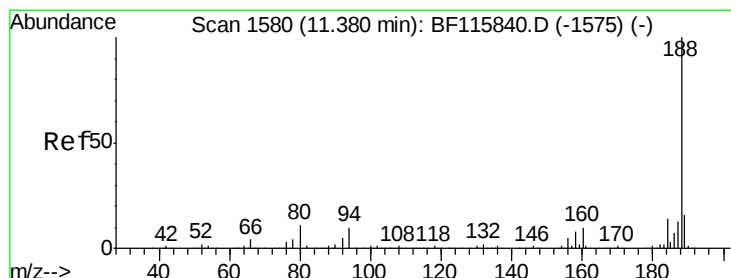
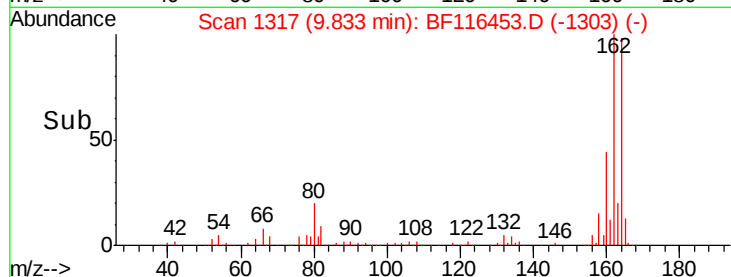
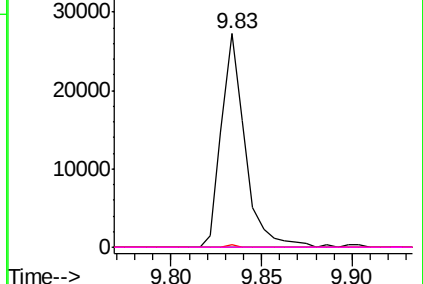


Abundance Ion 165.00 (164.70 to 165.70): E

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

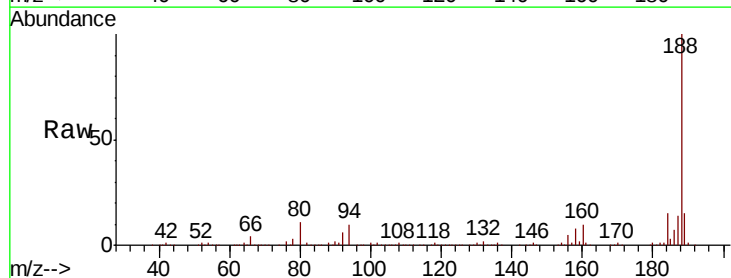
RT: 11.32 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

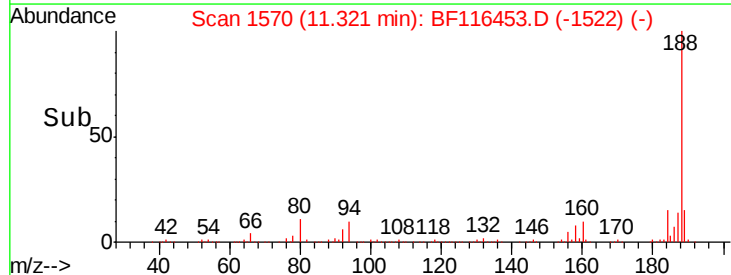
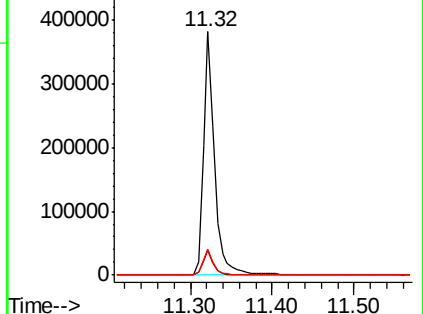
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 362289   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 10.0  | 8.1 12.1 |
| 80          | 10.9  | 8.7 13.1 |

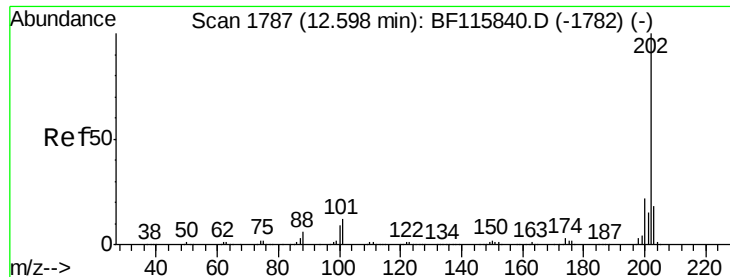


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#75

Fluoranthene

Concen: 2.696 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

Instrument :

BNA\_F

ClientSampleId :

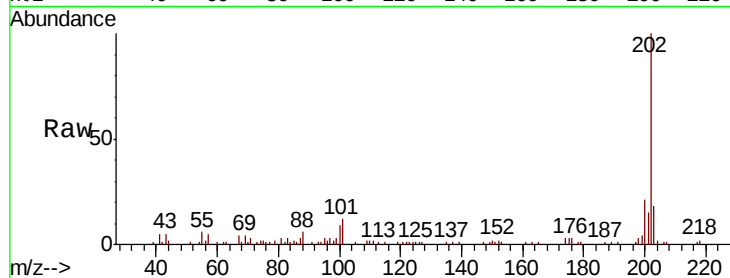
Tot Ion:202 Resp: 52269

Ion Ratio Lower Upper

202 100

101 12.1 0.0 31.2

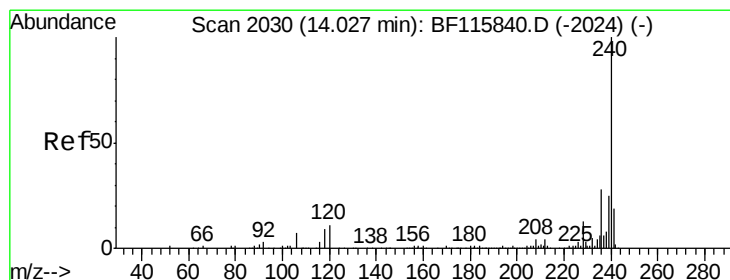
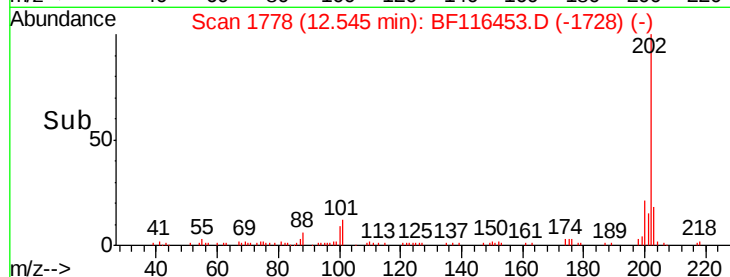
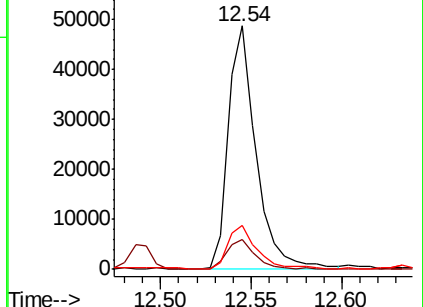
203 18.2 0.0 37.8



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: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

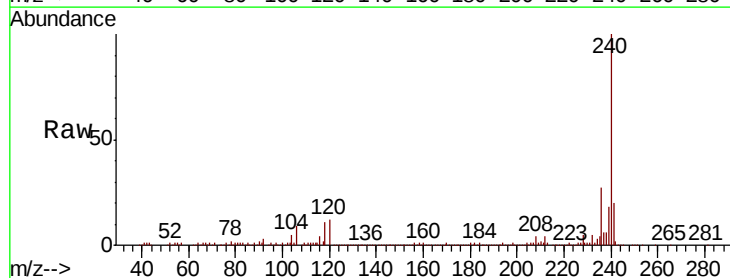
Tgt Ion:240 Resp: 271785

Ion Ratio Lower Upper

240 100

120 12.2 10.7 16.1

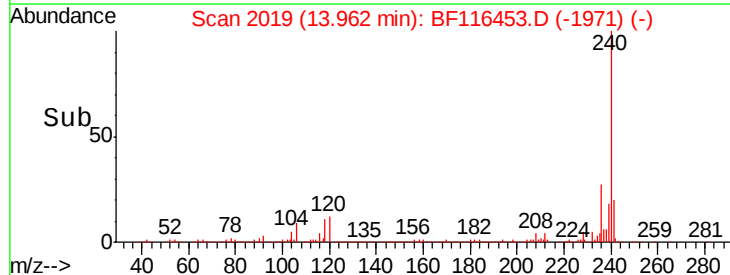
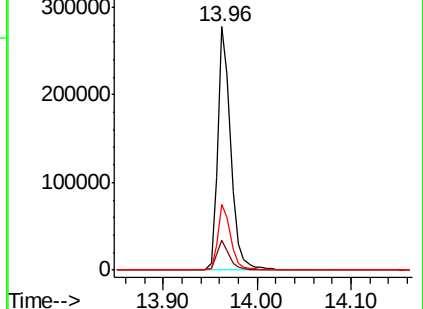
236 26.7 22.2 33.2

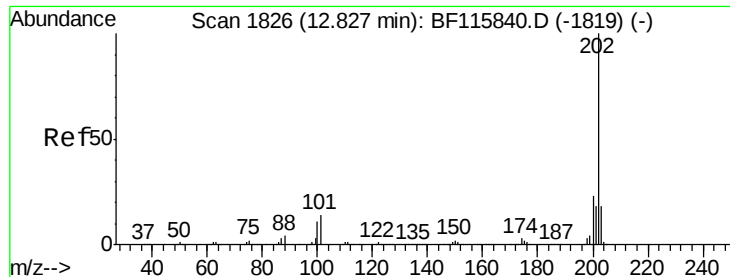


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

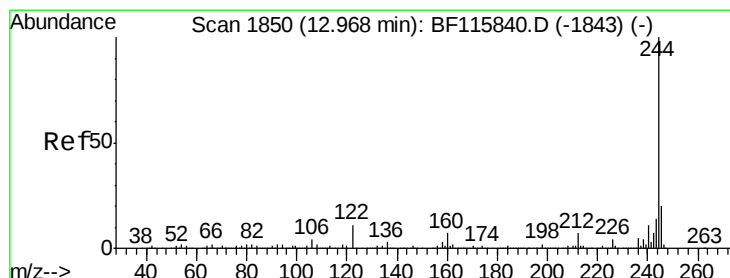
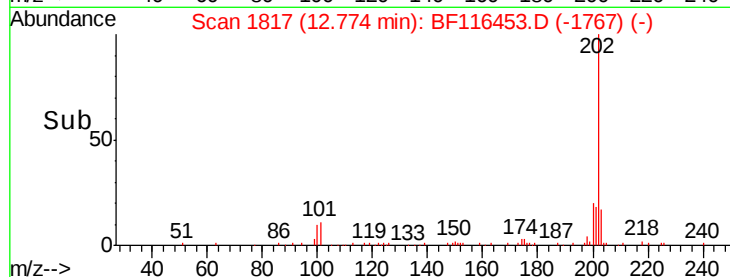
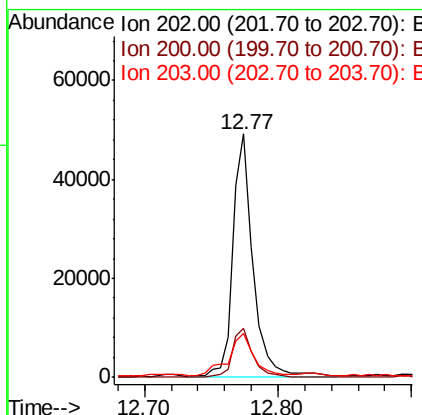
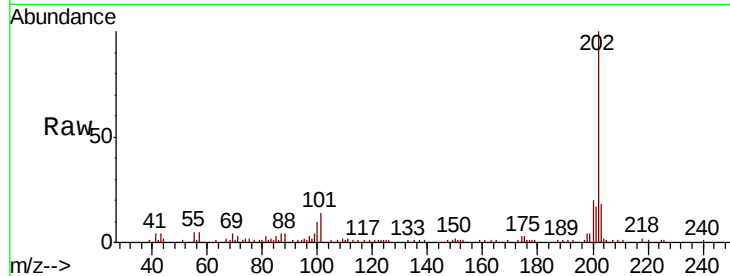




#78  
Pvrene  
Concen: 2.579 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

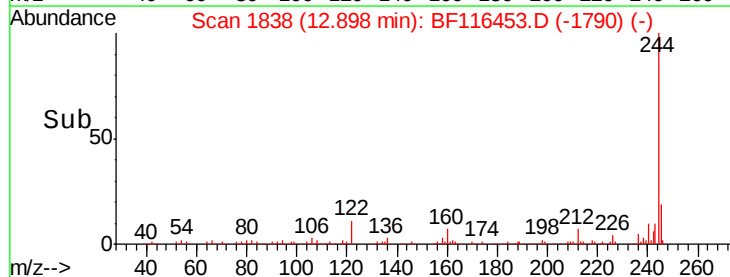
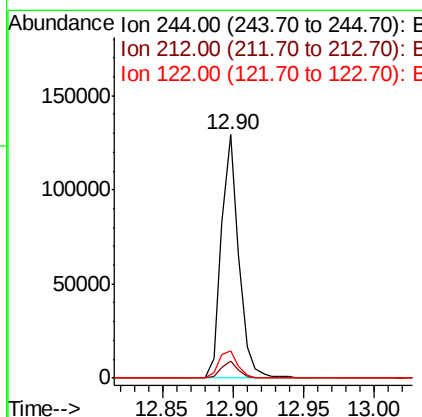
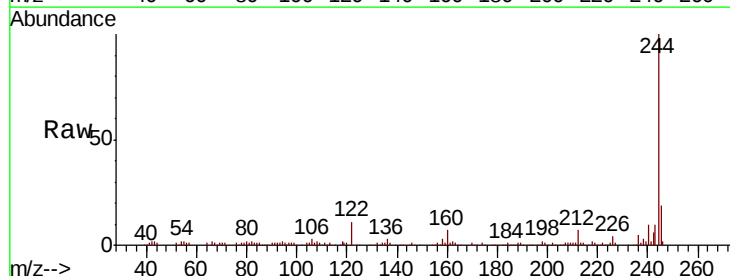
Instrument :  
BNA\_F  
ClientSampleId :

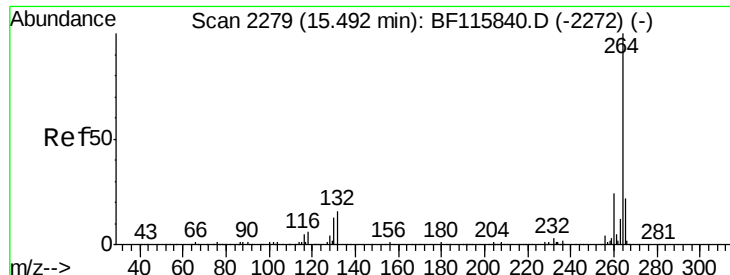
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.9  | 18.0  | 27.0  |
| 203     | 17.9  | 14.1  | 21.1  |



#79  
Terphenyl-d14  
Concen: 8.644 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. -0.02 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.8   | 8.8   |
| 122     | 11.1  | 9.0   | 13.4  |

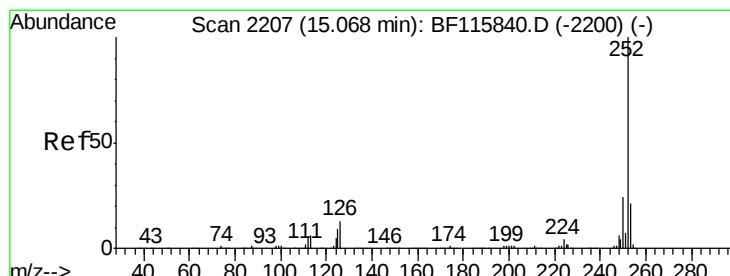
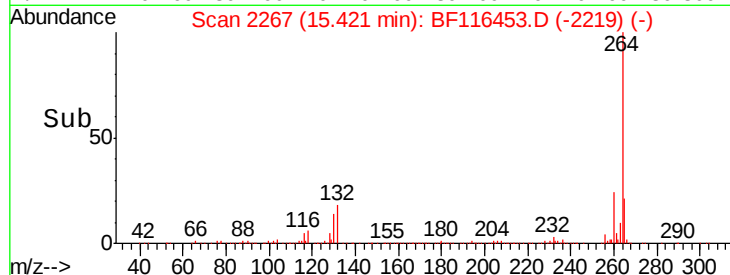
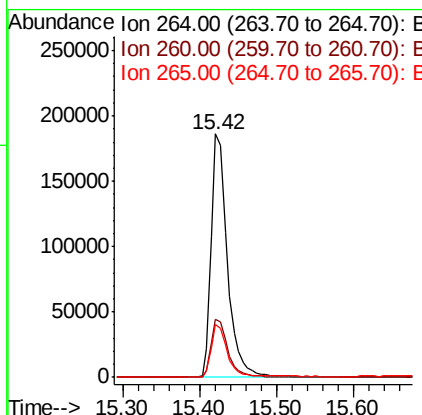
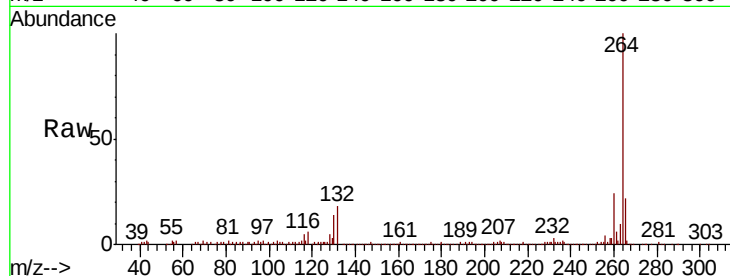




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. -0.02 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

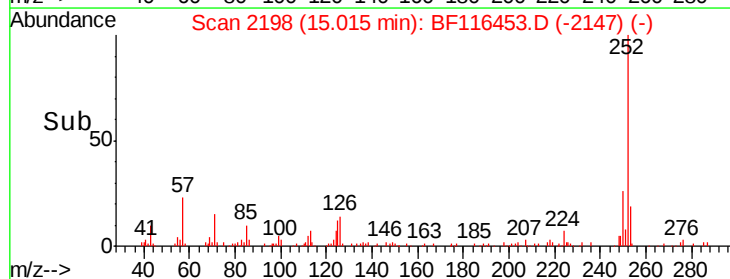
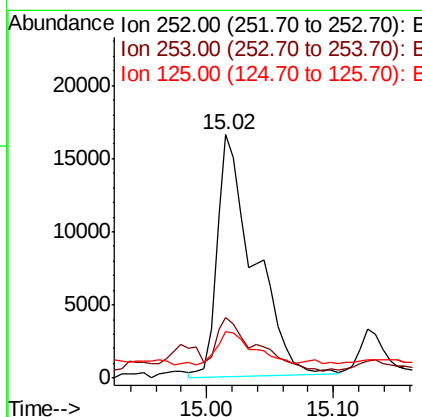
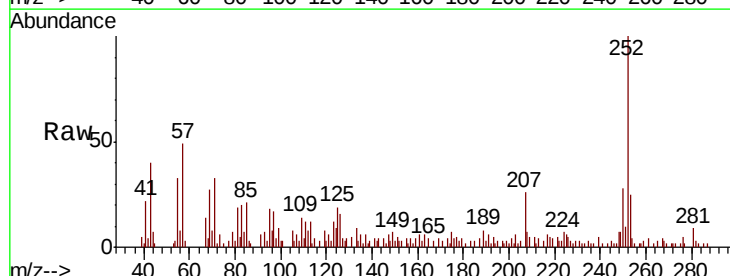
Instrument :  
BNA\_F  
ClientSampleId :

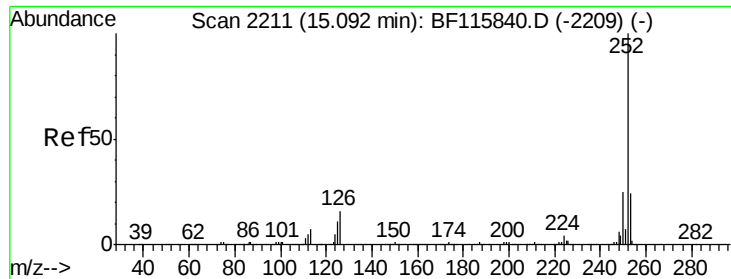
Tot Ion:264 Resp: 270297  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.7 29.5  
265 21.5 17.4 26.0



#88  
Benzo(b)fluoranthene  
Concen: 2.139 ng  
RT: 15.02 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: BF116453.D  
Acq: 21 Aug 2019 1:48

Tgt Ion:252 Resp: 33426  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.8 26.8  
125 19.1 8.4 12.6#





#89

Benzo(k)fluoranthene

Concen: 2.196 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.02 min

Lab File: BF116453.D

Acq: 21 Aug 2019 1:48

Instrument :

BNA\_F

ClientSampleId :

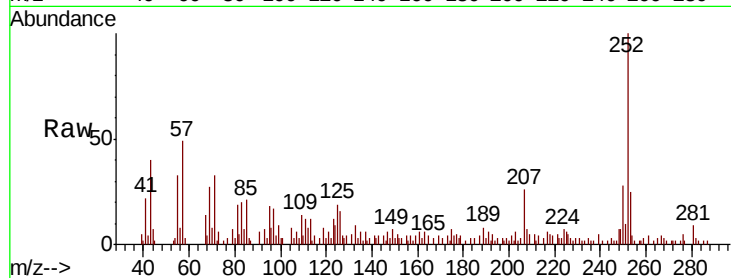
Tot Ion:252 Resp: 33426

Ion Ratio Lower Upper

252 100

253 25.0 17.8 26.8

125 19.1 7.7 11.5#



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

