

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062519\  
 Data File : BF115199.D  
 Acq On : 25 Jun 2019 20:38  
 Operator : HP/JU  
 Sample : K3510-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-062419

Quant Time: Jun 26 05:50:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 24 04:21:29 2019  
 Response via : Initial Calibration

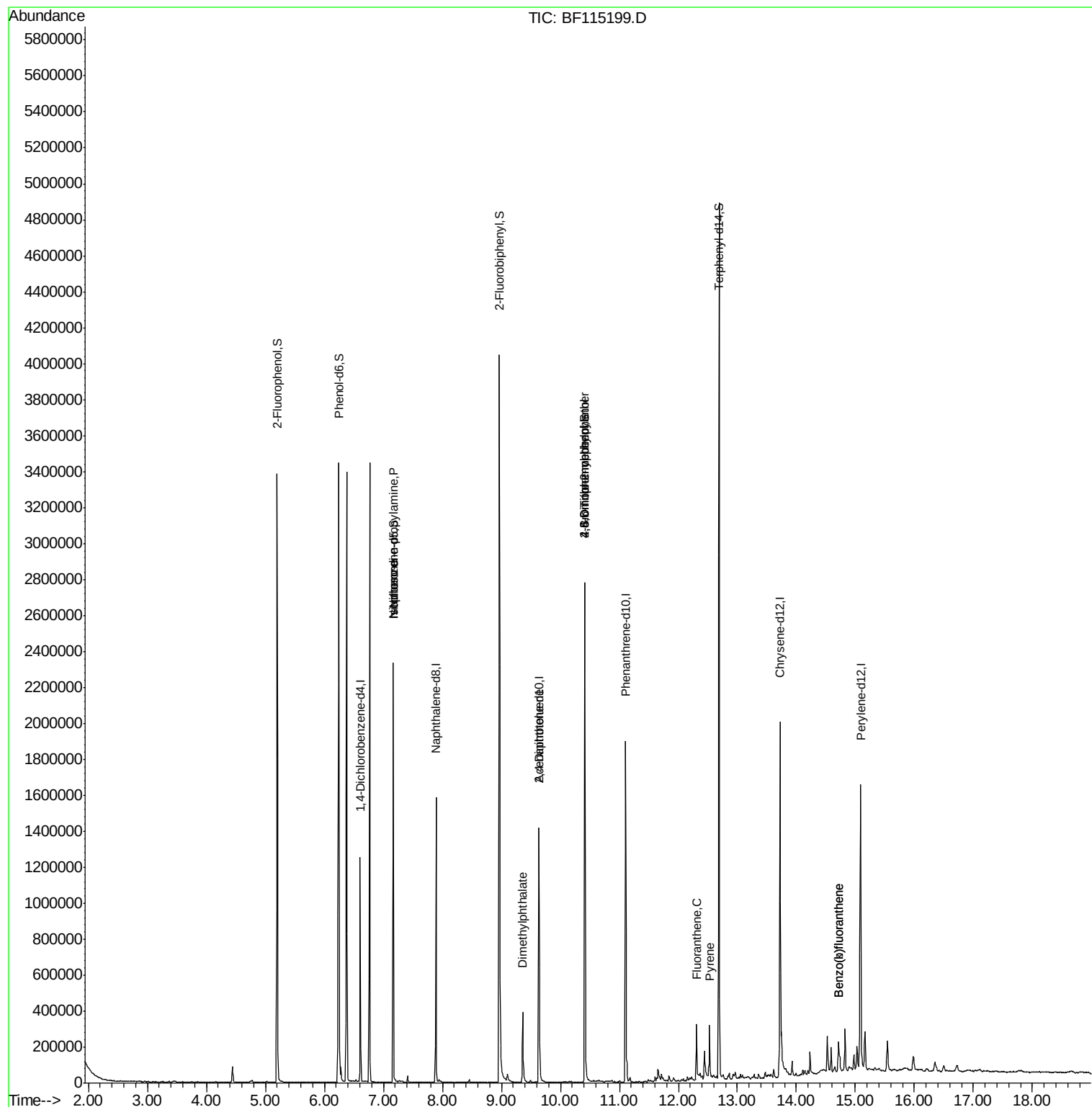
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-----------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.61  | 152  | 181213   | 20.00     | ng    | -0.01       |
| 21) Naphthalene-d8             | 7.89  | 136  | 640059   | 20.00     | ng    | -0.01       |
| 39) Acenaphthene-d10           | 9.64  | 164  | 321600   | 20.00     | ng    | -0.01       |
| 64) Phenanthrene-d10           | 11.11 | 188  | 655595   | 20.00     | ng    | -0.01       |
| 76) Chrysene-d12               | 13.72 | 240  | 599019   | 20.00     | ng    | -0.02       |
| 87) Perylene-d12               | 15.09 | 264  | 681495   | 20.00     | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |           |       |             |
| 5) 2-Fluorophenol              | 5.20  | 112  | 995994   | 84.82     | ng    | 0.00        |
| 7) Phenol-d6                   | 6.24  | 99   | 1211808  | 85.02     | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 7.17  | 82   | 709808   | 68.22     | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol       | 10.42 | 330  | 357830   | 105.51    | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 8.97  | 172  | 1376566  | 72.71     | ng    | -0.02       |
| 79) Terphenyl-d14              | 12.69 | 244  | 1648244  | 58.50     | ng    | -0.02       |
| Target Compounds               |       |      |          |           |       |             |
| 19) n-Nitroso-di-n-propylamine | 7.17  | 70   | 92615    | 10.150    | ng    | Qvalue # 81 |
| 25) Isophorone                 | 7.17  | 82   | 696935   | 32.697    | ng    | # 63        |
| 50) Dimethylphthalate          | 9.36  | 163  | 202614   | 8.563     | ng    | 99          |
| 57) 2,4-Dinitrotoluene         | 9.64  | 165  | 40326    | 5.717     | ng    | # 30        |
| 58) Fluorene                   | 10.18 | 166  | 1036     | Below Cal |       | # 83        |
| 65) 4,6-Dinitro-2-methylphenol | 10.41 | 198  | 519      | 5.093     | ng    | # 1         |
| 67) 4-Bromophenyl-phenylether  | 10.41 | 248  | 22207    | 3.124     | ng    | # 1         |
| 75) Fluoranthene               | 12.31 | 202  | 108109   | 3.070     | ng    | 96          |
| 78) Pyrene                     | 12.53 | 202  | 101861   | 2.213     | ng    | 99          |
| 88) Benzo(b)fluoranthene       | 14.71 | 252  | 102987   | 2.422     | ng    | 99          |
| 89) Benzo(k)fluoranthene       | 14.71 | 252  | 102987   | 2.701     | ng    | 97          |

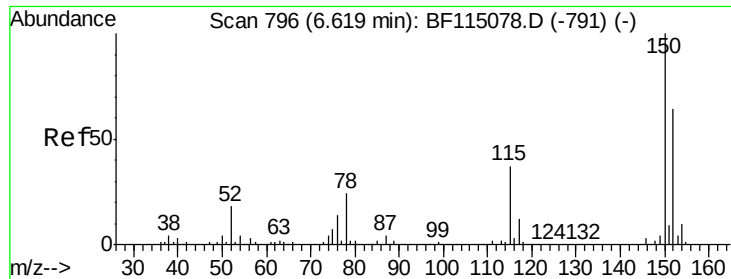
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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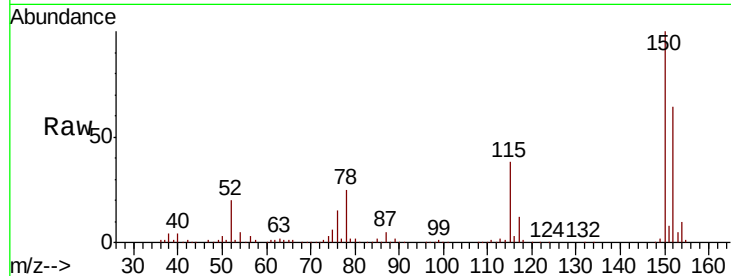


#1

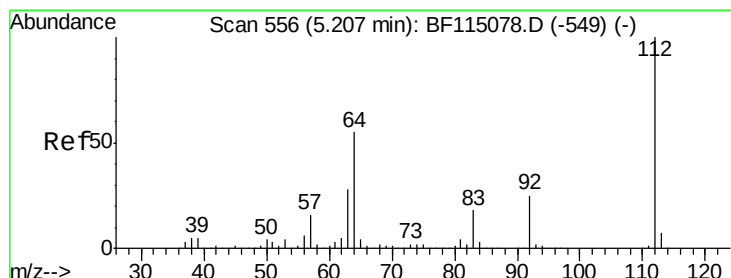
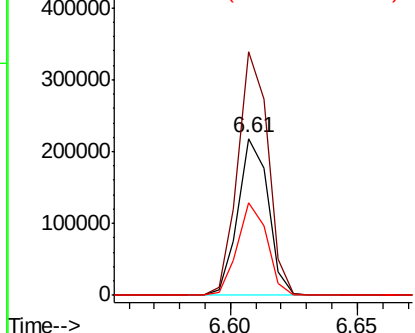
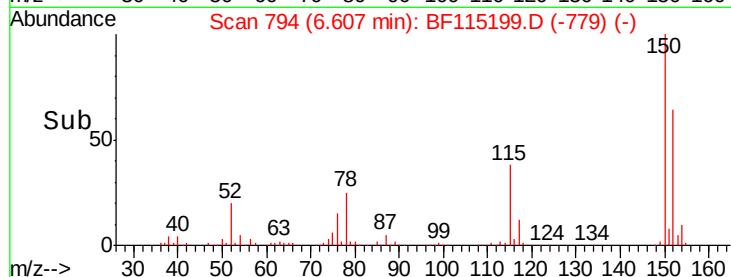
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.61 min Scan# 794  
Delta R.T. -0.01 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-062419

Tgt Ion:152 Resp: 181213  
Ion Ratio Lower Upper  
152 100  
150 155.4 124.2 186.2  
115 59.3 46.1 69.1



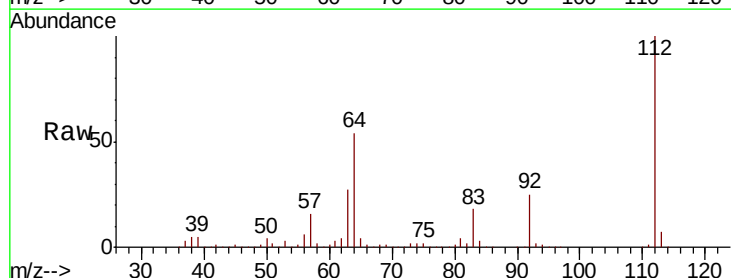
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



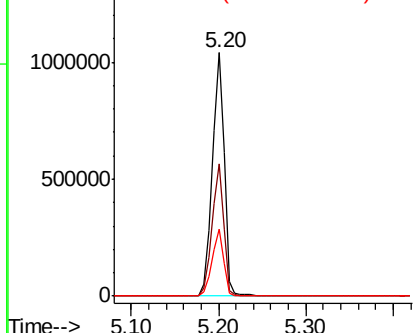
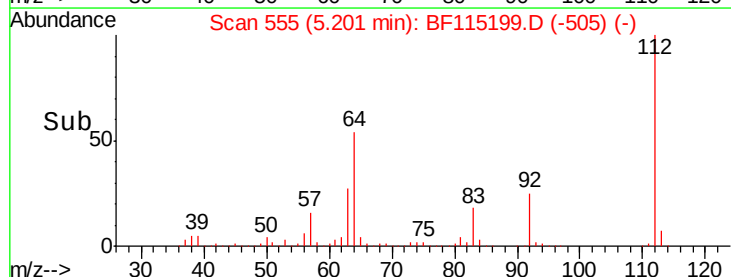
#5

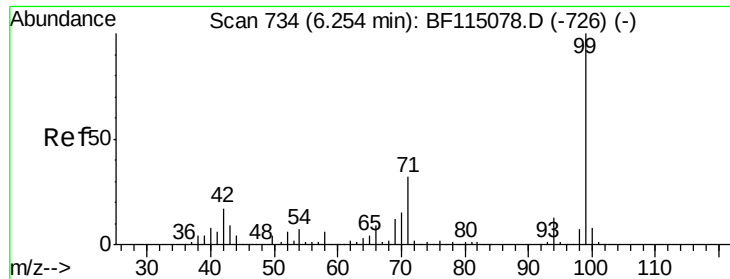
2-Fluorophenol  
Concen: 84.817 ng  
RT: 5.20 min Scan# 555  
Delta R.T. -0.01 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

Tgt Ion:112 Resp: 995994  
Ion Ratio Lower Upper  
112 100  
64 54.1 43.8 65.6  
63 27.4 22.2 33.4



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: 85.021 ng

RT: 6.24 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Instrument :

BNA\_F

ClientSampleId :

TR-04-062419

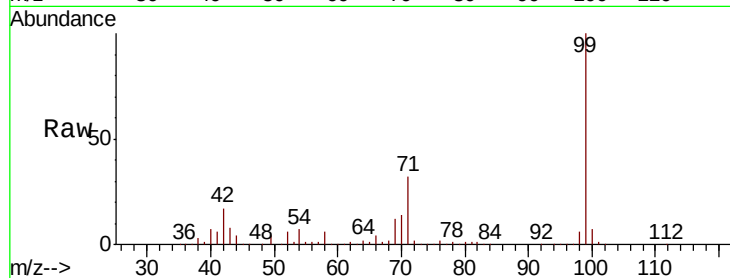
Tgt Ion: 99 Resp: 1211808

Ion Ratio Lower Upper

99 100

42 17.0 13.6 20.4

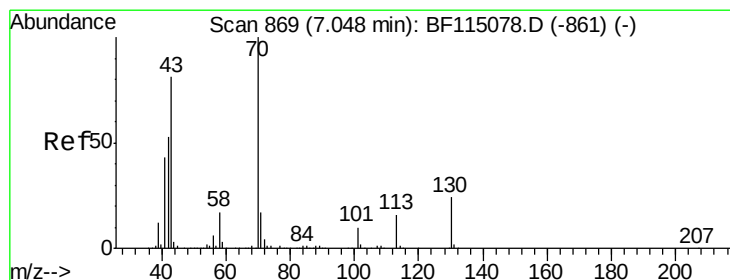
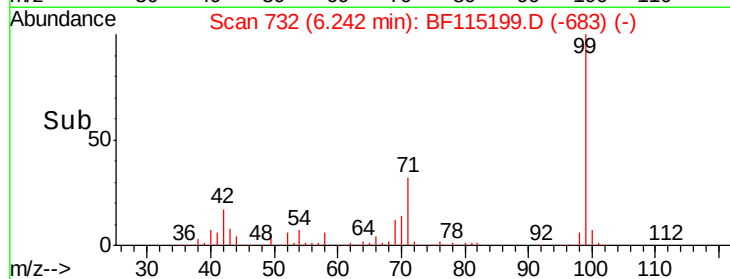
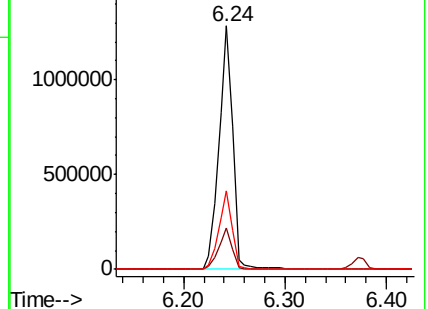
71 32.5 25.5 38.3



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: 10.150 ng

RT: 7.17 min Scan# 889

Delta R.T. 0.12 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Tgt Ion: 70 Resp: 92615

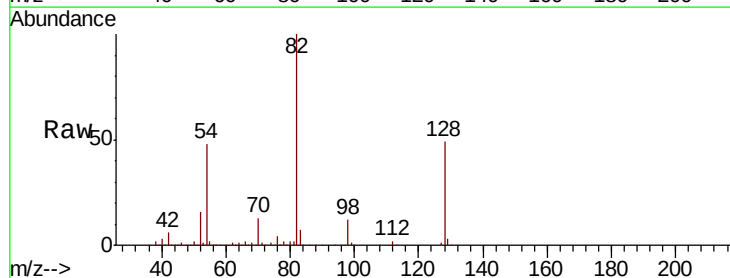
Ion Ratio Lower Upper

70 100

42 48.9 42.6 63.8

101 0.0 8.0 12.0#

130 2.4 19.4 29.0#

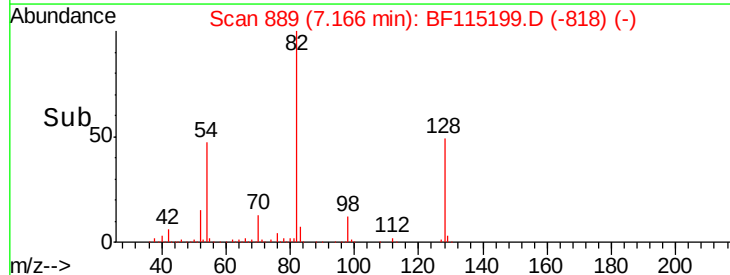
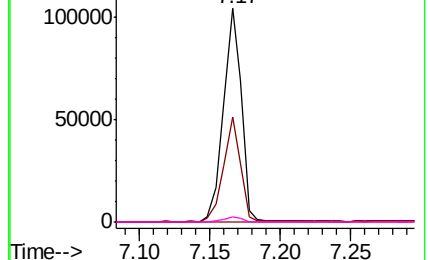


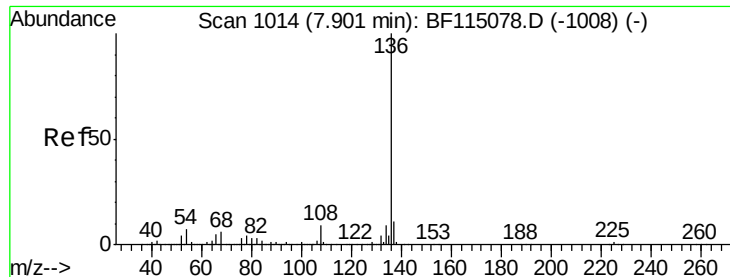
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

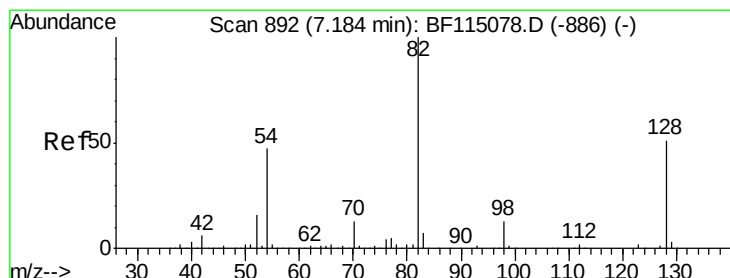
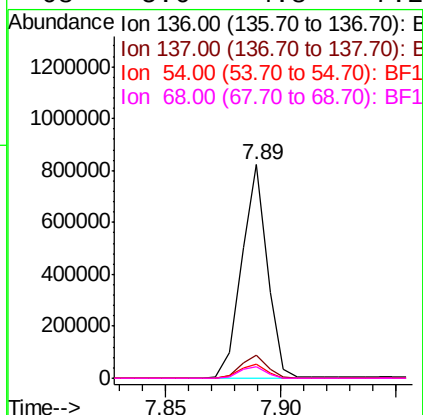
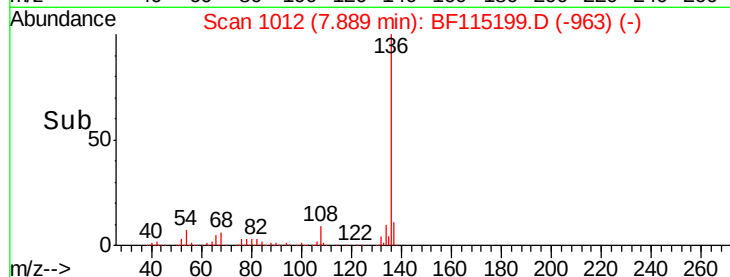
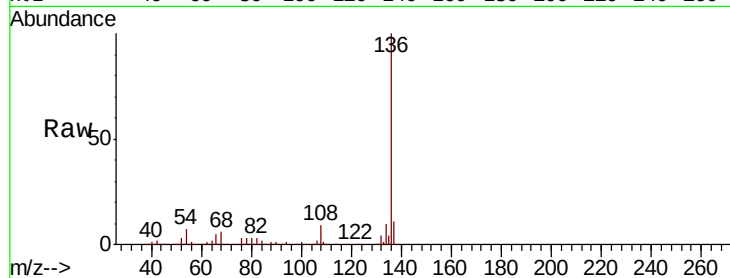




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.89 min Scan# 1012  
Delta R.T. -0.01 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

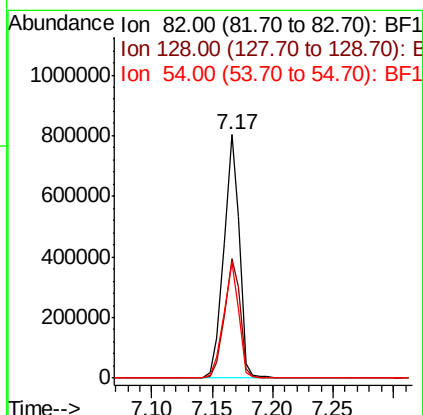
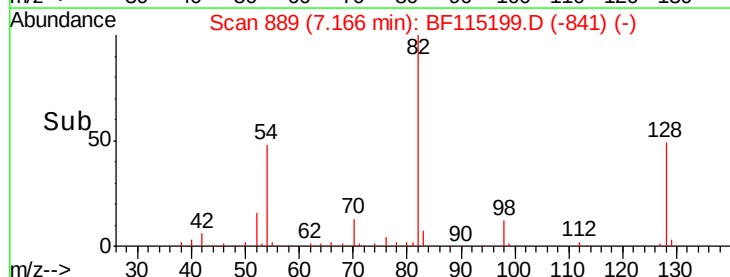
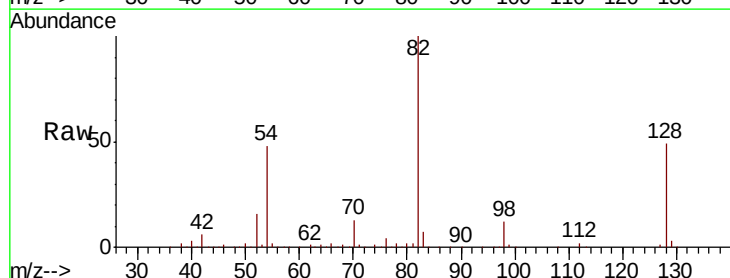
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-062419

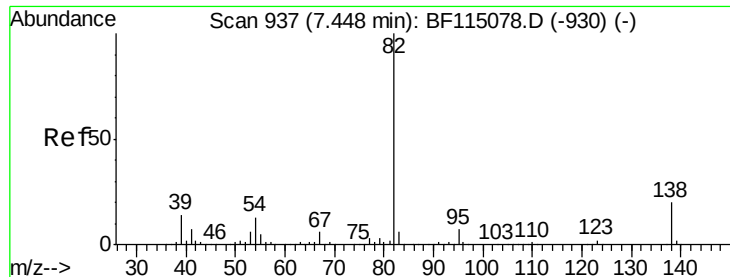
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 640059 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.9   | 13.3   |
| 54       | 6.8   | 5.6   | 8.4    |
| 68       | 5.6   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 68.219 ng  
RT: 7.17 min Scan# 889  
Delta R.T. -0.02 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 709808 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 49.0  | 40.4  | 60.6   |
| 54       | 47.5  | 37.5  | 56.3   |





#25

Isophorone

Concen: 32.697 ng

RT: 7.17 min Scan# 889

Delta R.T. -0.28 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Instrument :

BNA\_F

ClientSampleId :

TR-04-062419

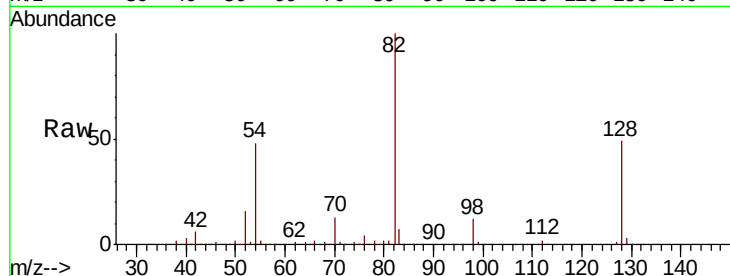
Tgt Ion: 82 Resp: 696935

Ion Ratio Lower Upper

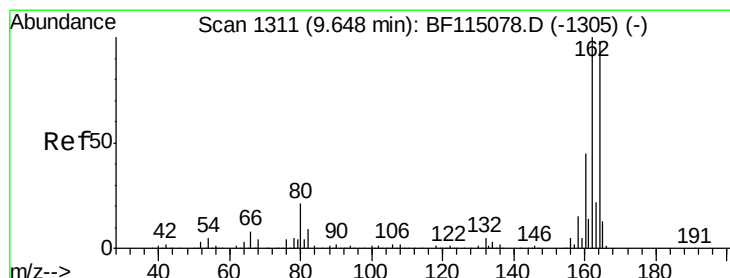
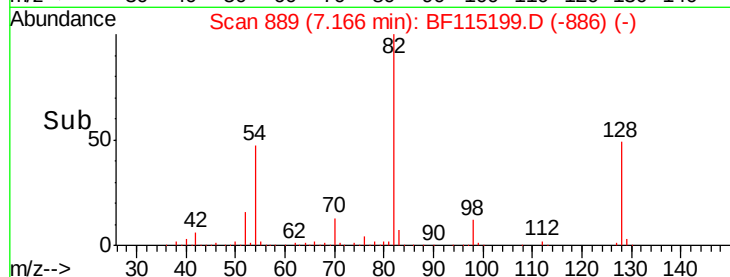
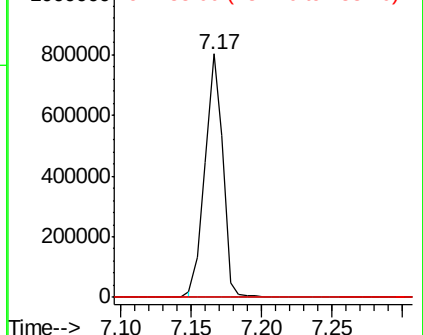
82 100

95 0.0 5.4 8.2#

138 0.0 15.9 23.9#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.64 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

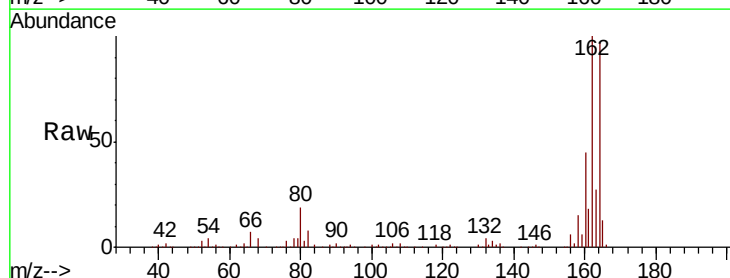
Tgt Ion: 164 Resp: 321600

Ion Ratio Lower Upper

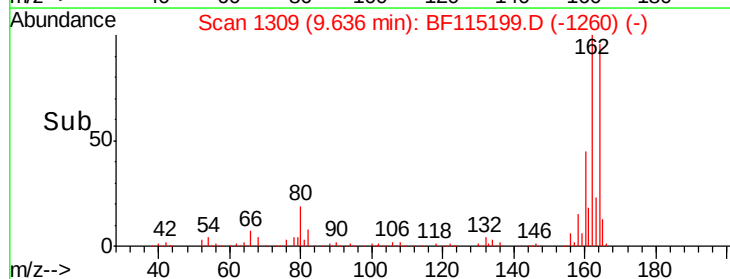
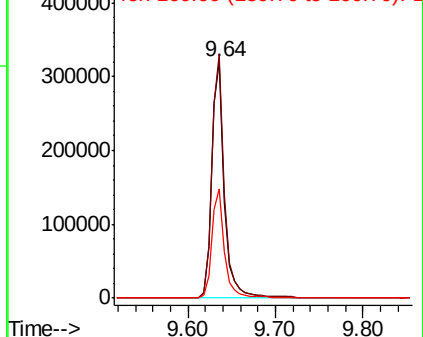
164 100

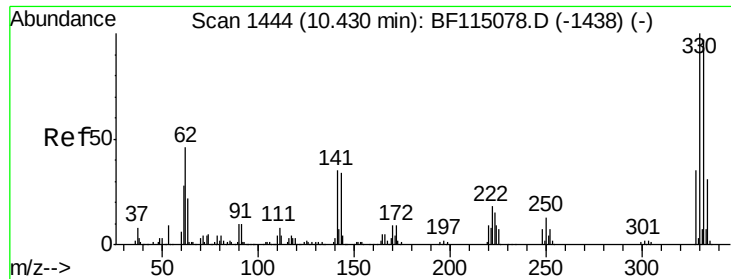
162 103.1 81.7 122.5

160 46.0 37.0 55.4



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: 105.511 ng

RT: 10.42 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Instrument :

BNA\_F

ClientSampleId :

TR-04-062419

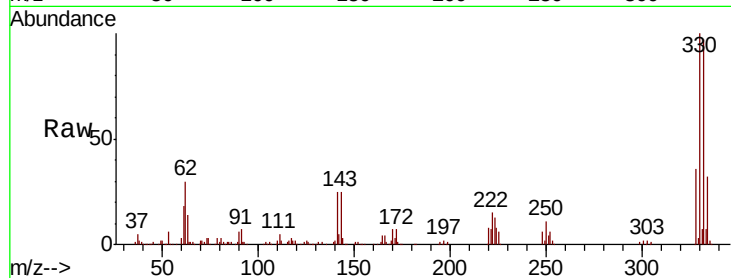
Tgt Ion:330 Resp: 357830

Ion Ratio Lower Upper

330 100

332 96.7 77.3 115.9

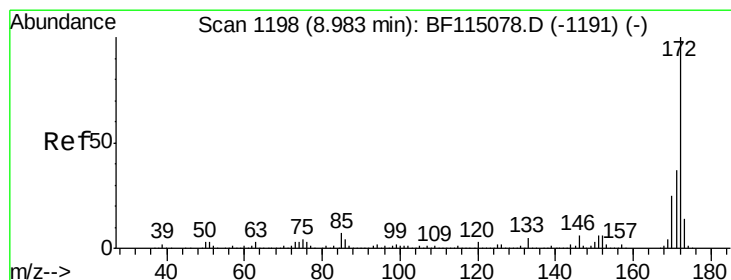
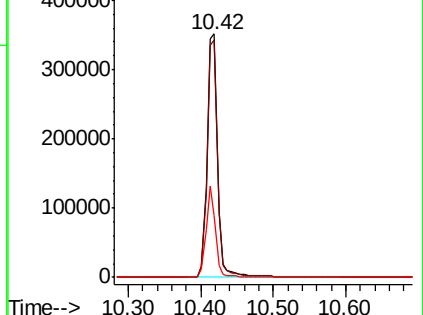
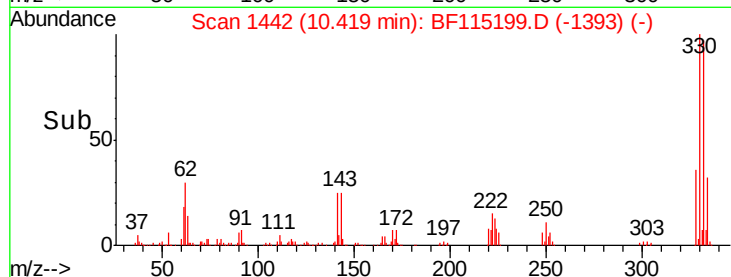
141 33.3 28.2 42.2



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: 72.707 ng

RT: 8.97 min Scan# 1195

Delta R.T. -0.02 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

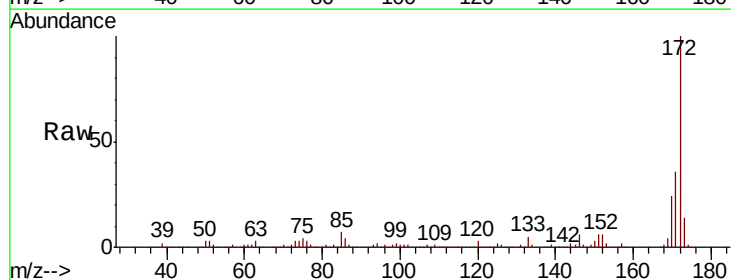
Tgt Ion:172 Resp: 1376566

Ion Ratio Lower Upper

172 100

171 36.0 29.8 44.6

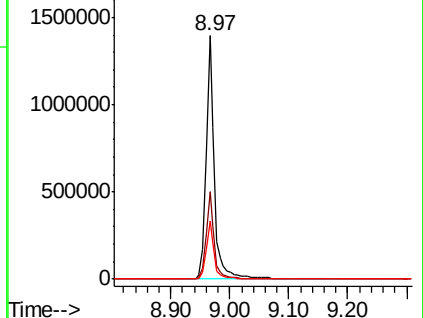
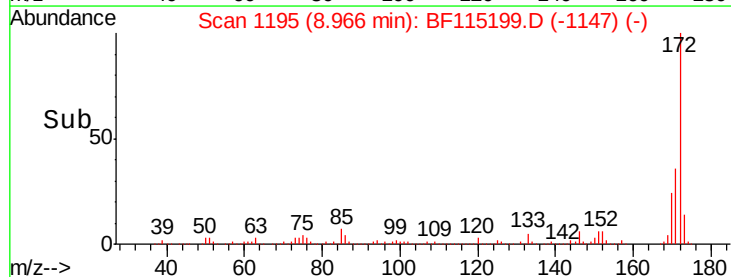
170 24.0 20.3 30.5

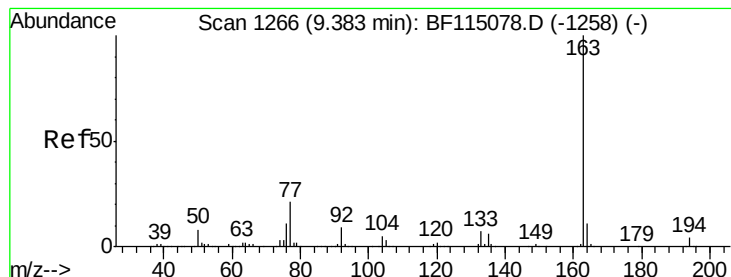


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 8.563 ng

RT: 9.36 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BF115199.D

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TR-04-062419

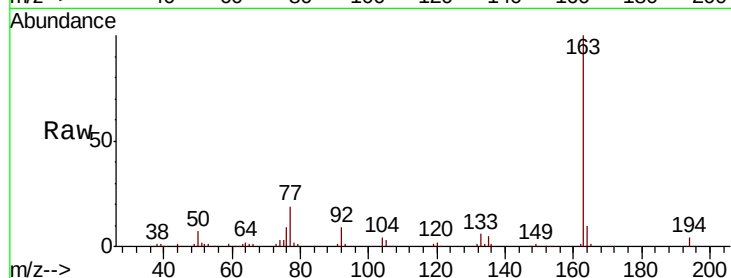
Tgt Ion:163 Resp: 202614

Ion Ratio Lower Upper

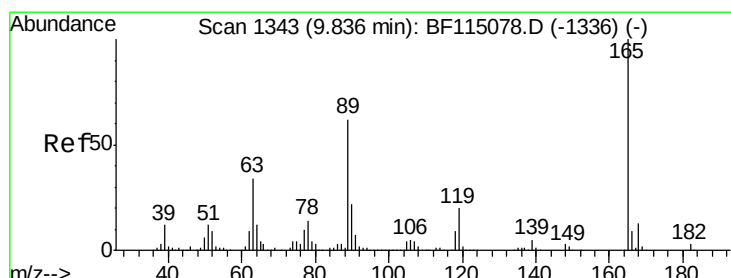
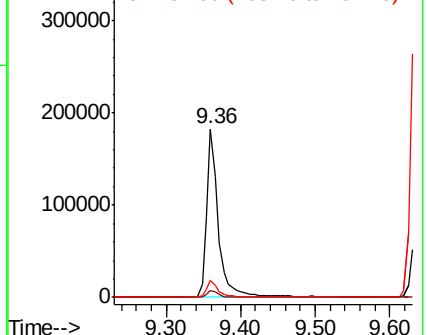
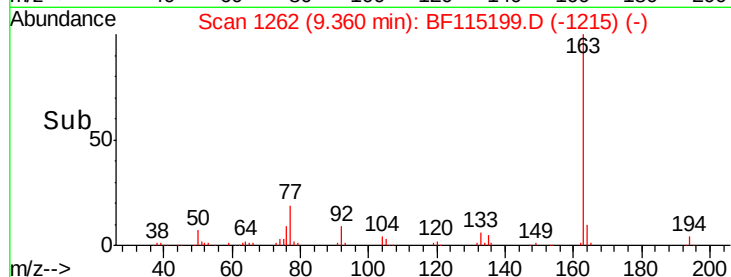
163 100

194 4.0 3.2 4.8

164 10.3 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



#57

2,4-Dinitrotoluene

Concen: 5.717 ng

RT: 9.64 min Scan# 1309

Delta R.T. -0.20 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Tgt Ion:165 Resp: 40326

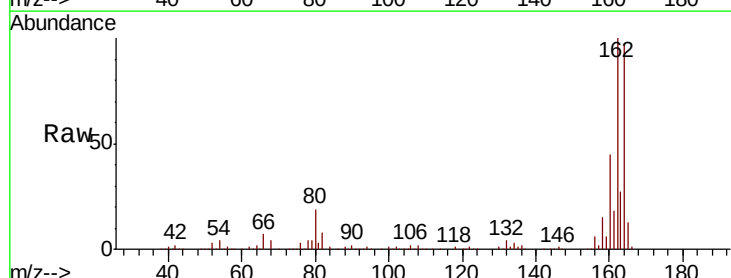
Ion Ratio Lower Upper

165 100

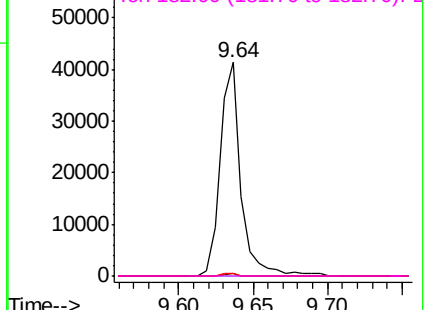
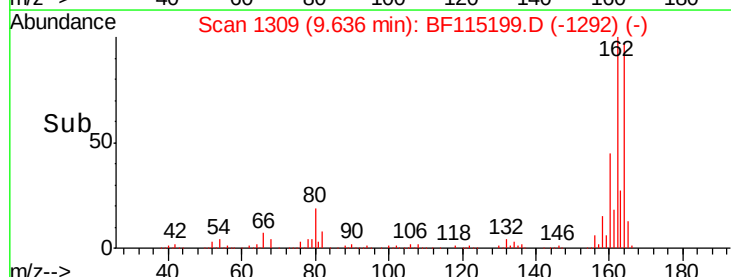
63 1.1 27.5 41.3#

89 1.4 49.9 74.9#

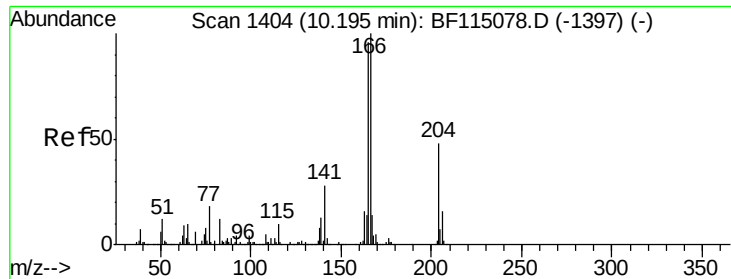
182 0.0 2.1 3.1#



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



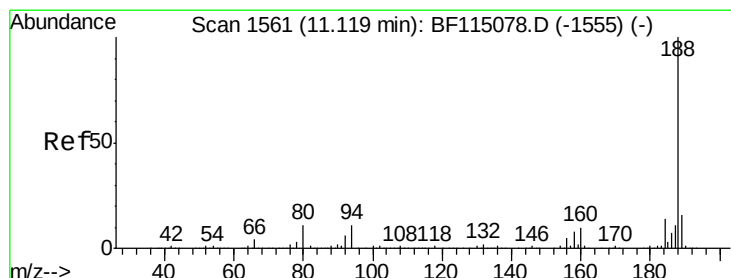
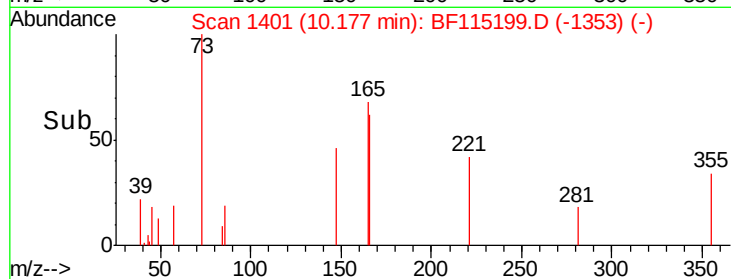
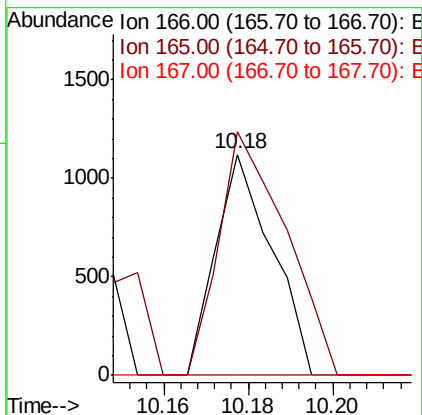
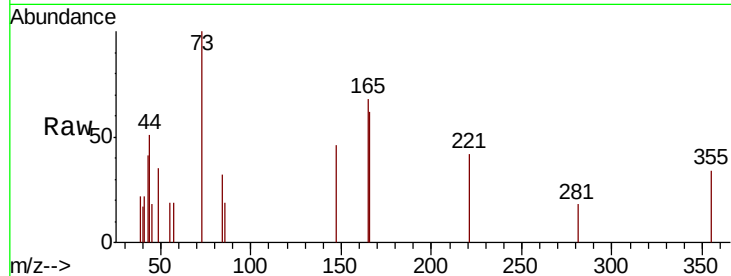




#58  
 Fluorene  
 Concen: Below Cal  
 RT: 10.18 min Scan# 1401  
 Delta R.T. -0.02 min  
 Lab File: BF115199.D  
 Acq: 25 Jun 2019 20:38

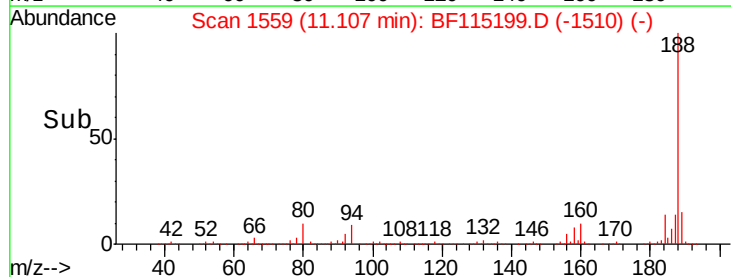
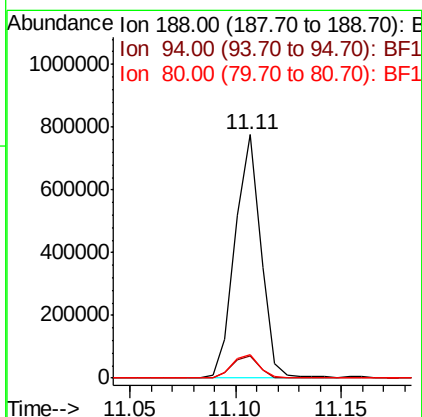
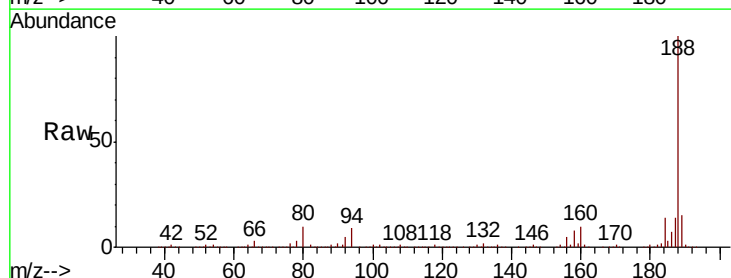
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-062419

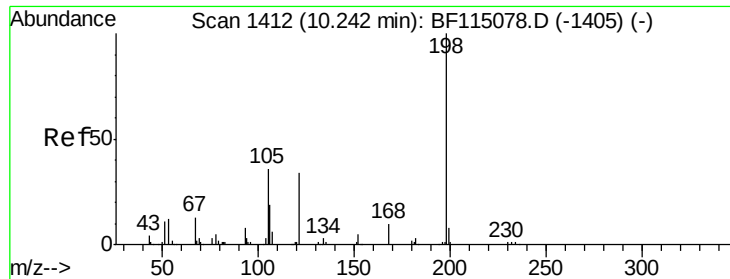
Tgt Ion:166 Resp: 1036  
 Ion Ratio Lower Upper  
 166 100  
 165 110.3 76.5 114.7  
 167 0.0 11.0 16.4#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.11 min Scan# 1559  
 Delta R.T. -0.01 min  
 Lab File: BF115199.D  
 Acq: 25 Jun 2019 20:38

Tgt Ion:188 Resp: 655595  
 Ion Ratio Lower Upper  
 188 100  
 94 9.3 8.6 12.8  
 80 9.6 8.8 13.2

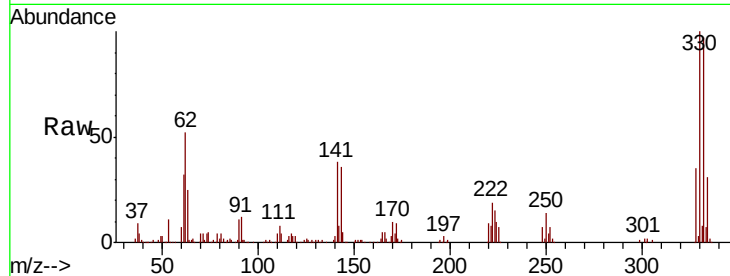




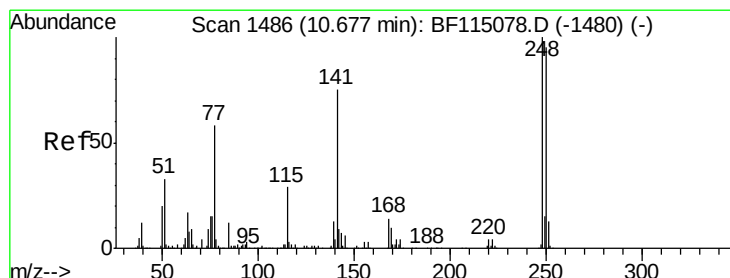
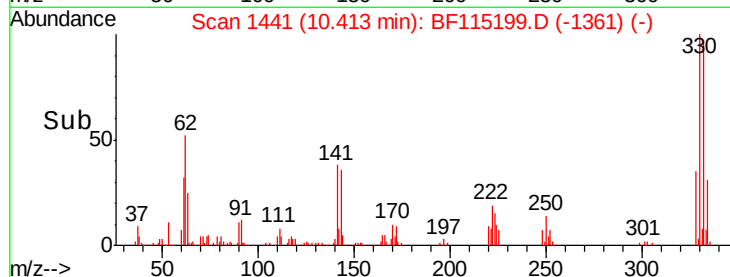
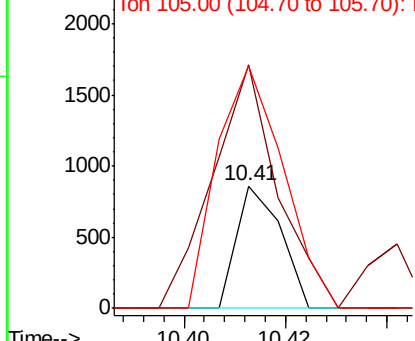
#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.093 ng  
RT: 10.41 min Scan# 1441  
Delta R.T. 0.17 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-062419

Tgt Ion:198 Resp: 519  
Ion Ratio Lower Upper  
198 100  
51 199.4 11.0 51.0#  
105 198.8 17.3 57.3#

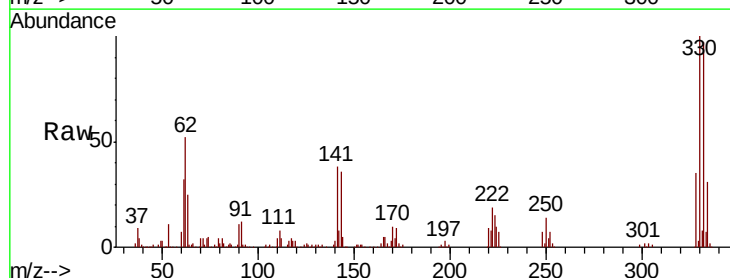


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

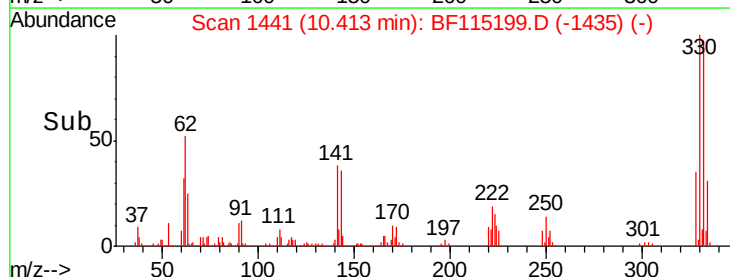
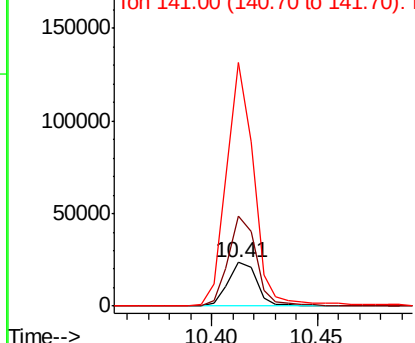


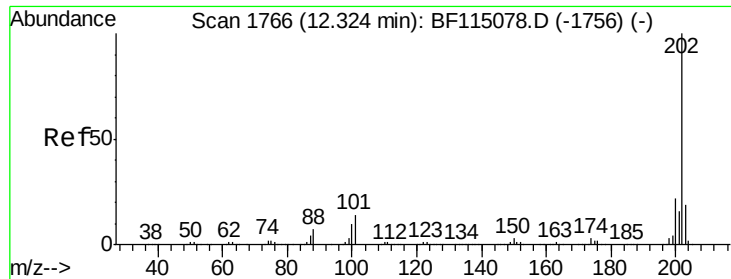
#67  
4-Bromophenyl-phenylether  
Concen: 3.124 ng  
RT: 10.41 min Scan# 1441  
Delta R.T. -0.26 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

Tgt Ion:248 Resp: 22207  
Ion Ratio Lower Upper  
248 100  
250 205.7 76.2 114.2#  
141 557.7 59.6 89.4#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

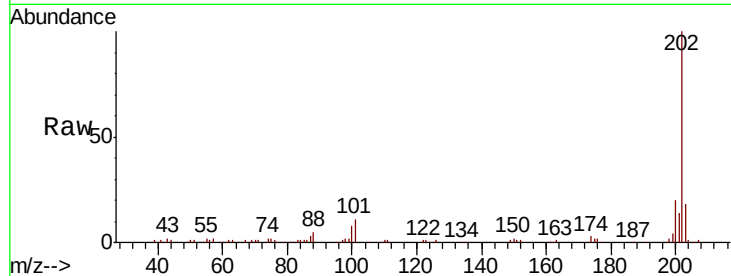




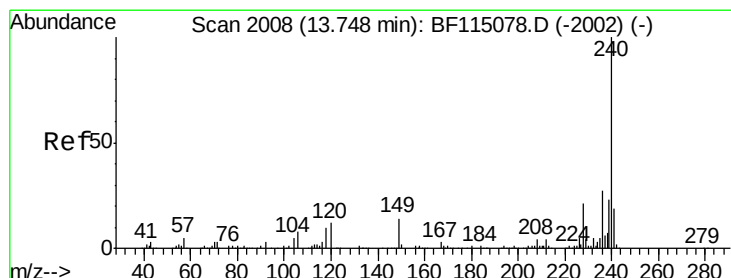
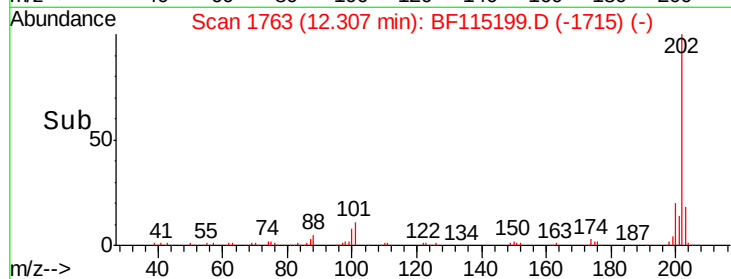
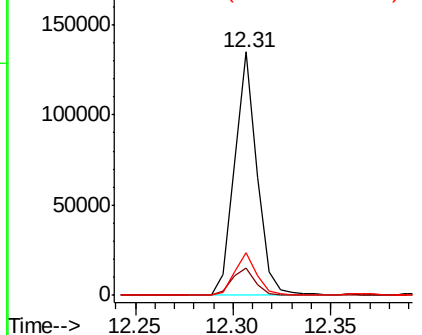
#75  
 Fluoranthene  
 Concen: 3.070 ng  
 RT: 12.31 min Scan# 1763  
 Delta R.T. -0.02 min  
 Lab File: BF115199.D  
 Acq: 25 Jun 2019 20:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-062419

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.5  | 0.0   | 34.0  |
| 203     | 17.6  | 0.0   | 38.8  |

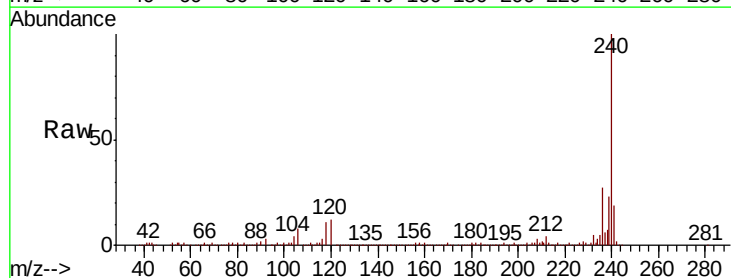


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

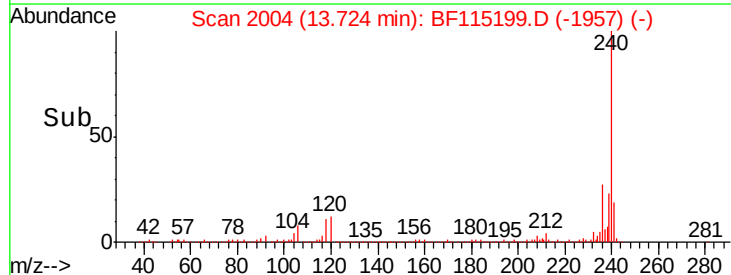
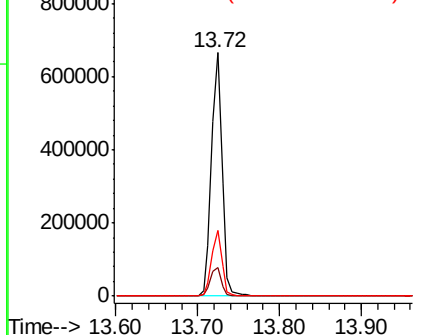


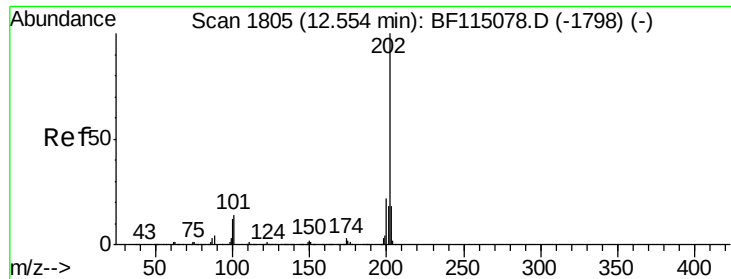
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.72 min Scan# 2004  
 Delta R.T. -0.02 min  
 Lab File: BF115199.D  
 Acq: 25 Jun 2019 20:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 9.4   | 14.2  |
| 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: 2.213 ng

RT: 12.53 min Scan# 1801

Delta R.T. -0.02 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

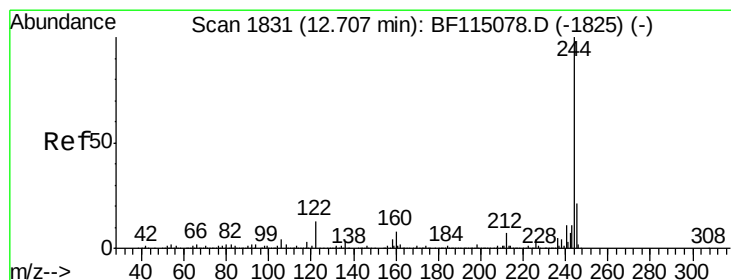
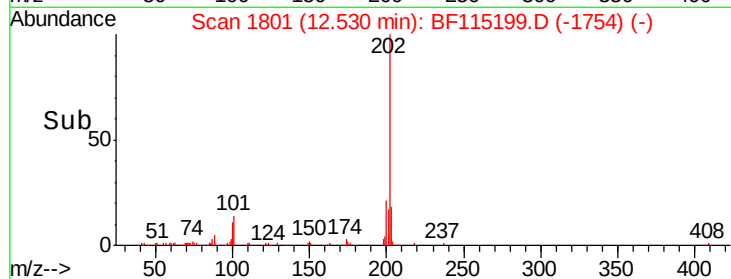
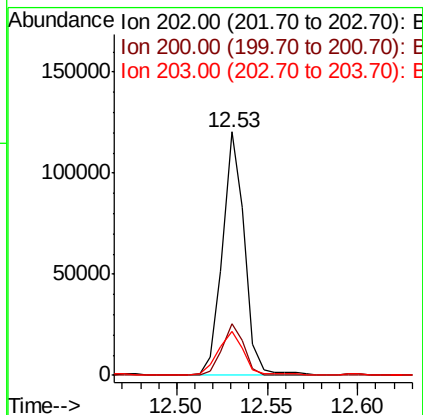
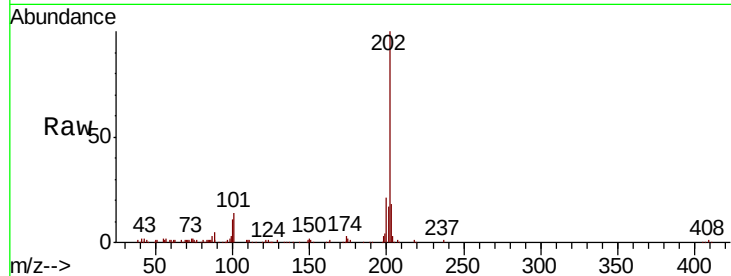
Instrument :

BNA\_F

ClientSampleId :

TR-04-062419

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 101861 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.2  | 17.9  | 26.9   |
| 203       | 18.1  | 14.6  | 21.8   |



#79

Terphenyl-d14

Concen: 58.503 ng

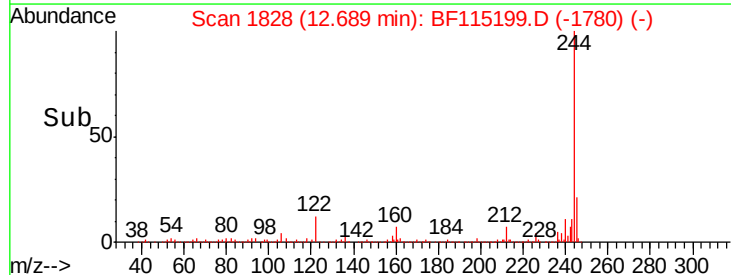
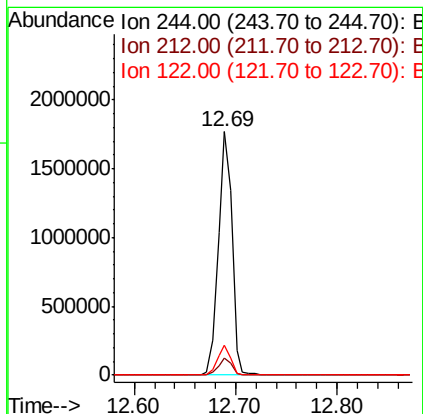
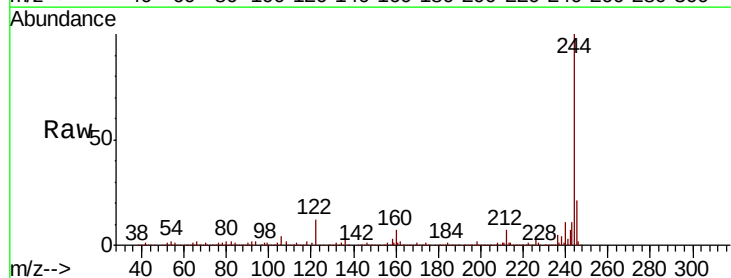
RT: 12.69 min Scan# 1828

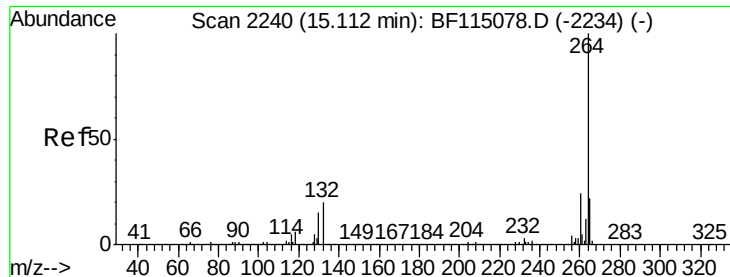
Delta R.T. -0.02 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1648244 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.0   | 5.8   | 8.6     |
| 122       | 12.5  | 10.4  | 15.6    |

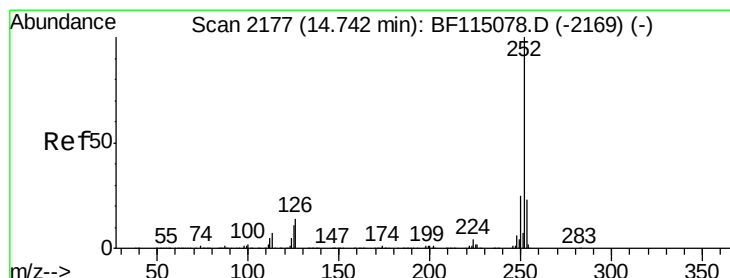
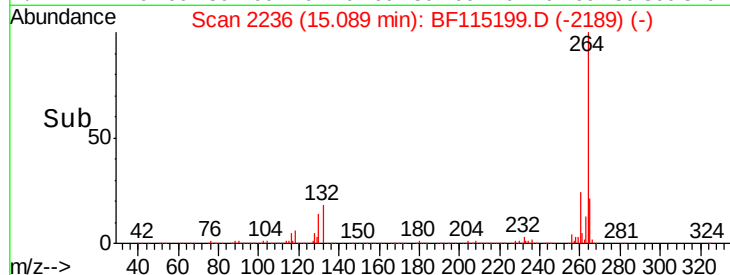
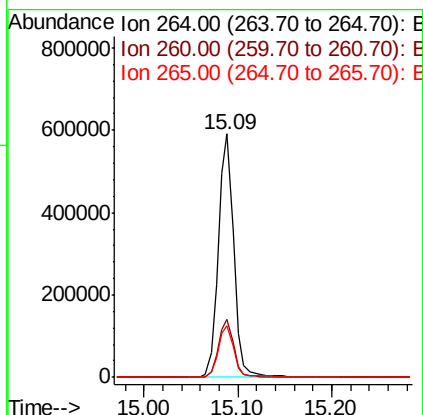
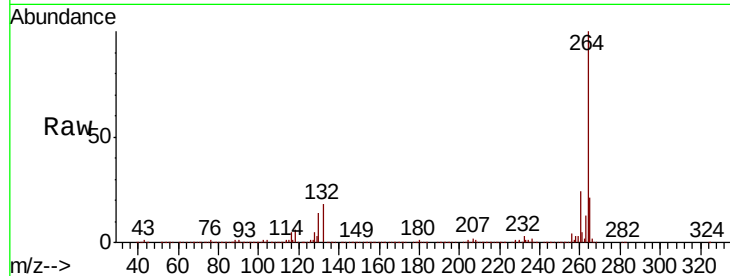




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.09 min Scan# 2236  
Delta R.T. -0.02 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

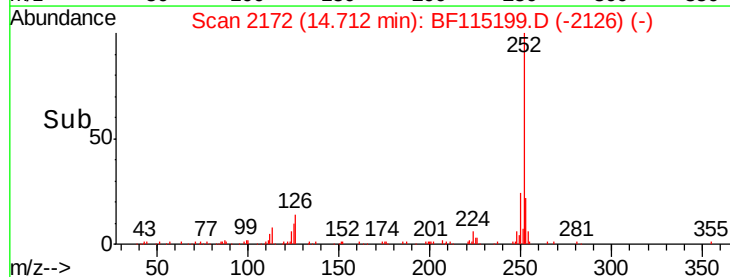
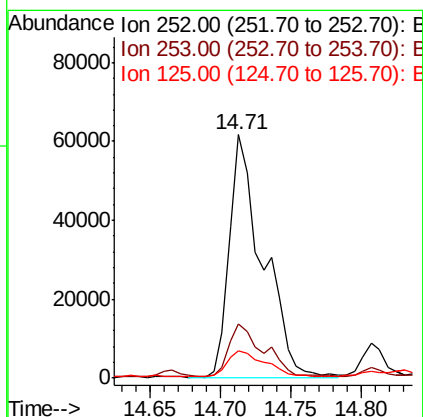
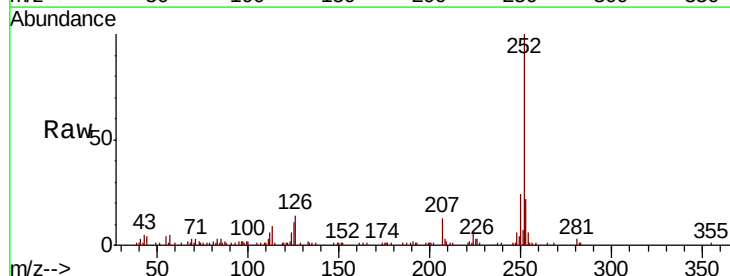
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-062419

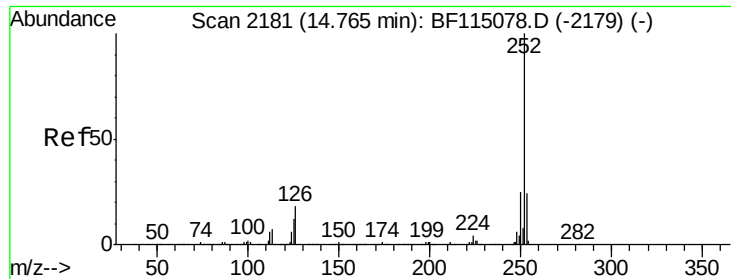
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 681495 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.9  | 19.6  | 29.4   |
| 265      | 21.4  | 17.3  | 25.9   |



#88  
Benzo(b)fluoranthene  
Concen: 2.422 ng  
RT: 14.71 min Scan# 2172  
Delta R.T. -0.03 min  
Lab File: BF115199.D  
Acq: 25 Jun 2019 20:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 102987 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 22.2  | 18.1  | 27.1   |
| 125      | 11.4  | 8.7   | 13.1   |





#89

Benzo(k)fluoranthene

Concen: 2.701 ng

RT: 14.71 min Scan# 2172

Delta R.T. -0.05 min

Lab File: BF115199.D

Acq: 25 Jun 2019 20:38

Instrument :

BNA\_F

ClientSampleId :

TR-04-062419

Tgt Ion: 252 Resp: 102987

Ion Ratio Lower Upper

252 100

253 22.2 18.9 28.3

125 11.4 10.2 15.2

