

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071519\  
 Data File : BF115580.D  
 Acq On : 16 Jul 2019 1:52  
 Operator : HP/JU  
 Sample : K3626-05DL 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 16 05:55:57 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 14:03:52 2019  
 Response via : Initial Calibration

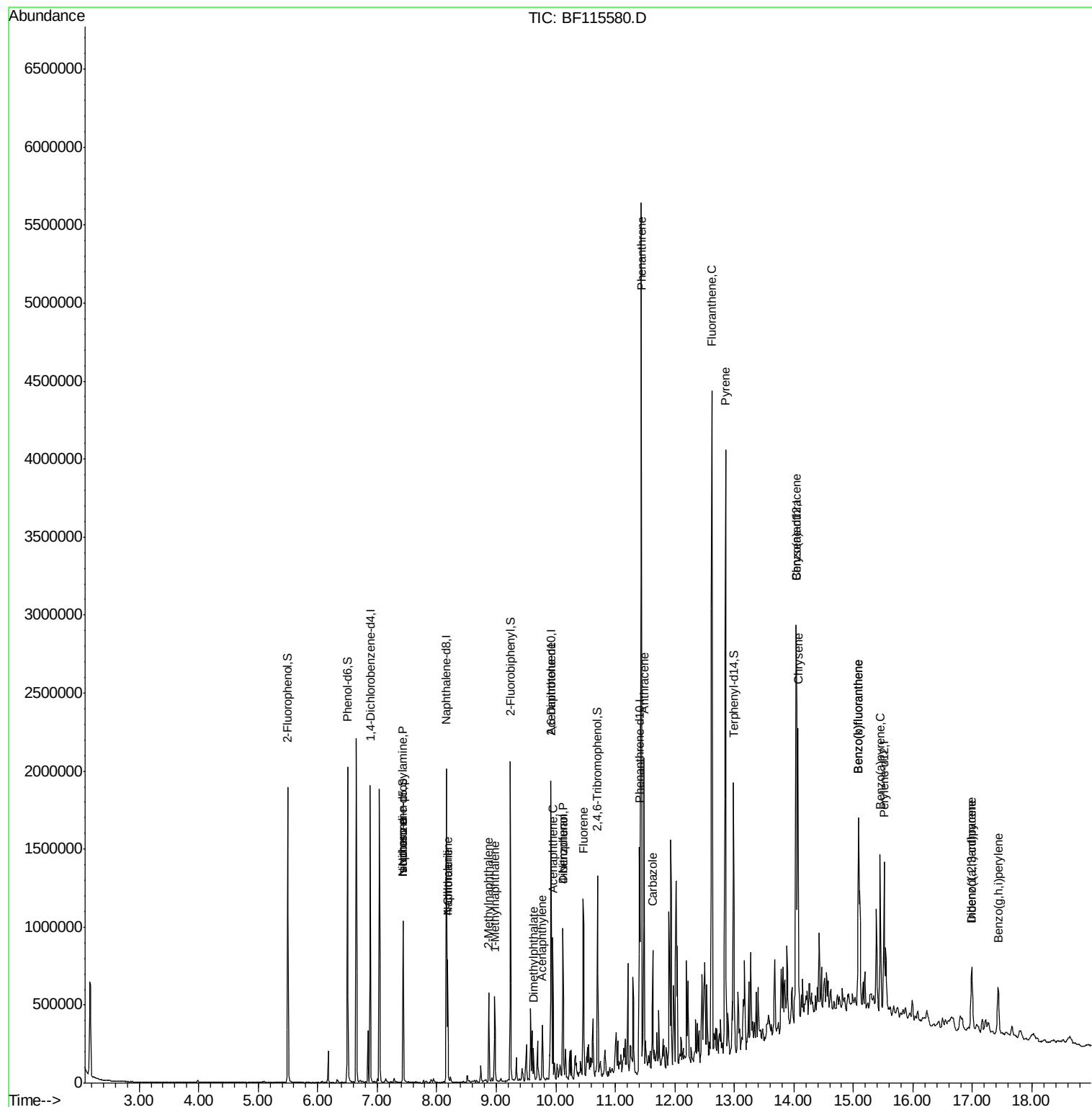
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 279041   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 8.16  | 136  | 877734   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 9.92  | 164  | 383316   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 11.40 | 188  | 629290   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 14.04 | 240  | 446216   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 15.52 | 264  | 466435   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.50  | 112  | 521610   | 30.58  | ng    | 0.00        |
| 7) Phenol-d6                   | 6.50  | 99   | 685594   | 31.67  | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 346406   | 22.95  | ng    | -0.02       |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 119805   | 26.78  | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 9.24  | 172  | 629064   | 28.72  | ng    | -0.01       |
| 79) Terphenyl-d14              | 12.99 | 244  | 536401   | 22.18  | ng    | -0.01       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 45623    | 3.232  | ng    | Qvalue # 80 |
| 25) Isophorone                 | 7.43  | 82   | 339920   | 11.254 | ng    | # 64        |
| 31) Naphthalene                | 8.19  | 128  | 339292   | 7.982  | ng    | 95          |
| 33) 4-Chloroaniline            | 8.19  | 127  | 43184    | 2.293  | ng    | # 35        |
| 37) 2-Methylnaphthalene        | 8.87  | 142  | 150102   | 5.327  | ng    | 98          |
| 38) 1-Methylnaphthalene        | 8.97  | 142  | 135088   | 5.047  | ng    | 100         |
| 49) Acenaphthylene             | 9.78  | 152  | 110558   | 2.990  | ng    | 96          |
| 50) Dimethylphthalate          | 9.63  | 163  | 71782    | 2.489  | ng    | 99          |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 57518    | 8.776  | ng    | # 28        |
| 52) Acenaphthene               | 9.95  | 154  | 168794   | 7.071  | ng    | 98          |
| 55) Dibenzofuran               | 10.12 | 168  | 286608   | 8.455  | ng    | 98          |
| 56) 4-Nitrophenol              | 10.12 | 139  | 107294   | 18.787 | ng    | # 12        |
| 58) Fluorene                   | 10.46 | 166  | 317138   | 13.087 | ng    | 99          |
| 71) Phenanthrene               | 11.44 | 178  | 2384283  | 73.916 | ng    | 99          |
| 72) Anthracene                 | 11.48 | 178  | 720941   | 21.626 | ng    | 98          |
| 73) Carbazole                  | 11.63 | 167  | 288558   | 9.871  | ng    | 98          |
| 75) Fluoranthene               | 12.62 | 202  | 1942327  | 56.982 | ng    | 97          |
| 78) Pyrene                     | 12.85 | 202  | 1746568  | 46.199 | ng    | 98          |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 895877   | 30.475 | ng    | 98          |
| 83) Chrysene                   | 14.07 | 228  | 745048   | 25.247 | ng    | 95          |
| 86) Indeno(1,2,3-cd)pyrene     | 16.99 | 276  | 282358   | 11.262 | ng    | # 92        |
| 88) Benzo(b)fluoranthene       | 15.09 | 252  | 1015423  | 33.808 | ng    | 98          |
| 89) Benzo(k)fluoranthene       | 15.09 | 252  | 1015423  | 37.921 | ng    | 100         |
| 90) Benzo(a)pyrene             | 15.45 | 252  | 527442   | 20.432 | ng    | 97          |
| 91) Dibenzo(a,h)anthracene     | 17.00 | 278  | 78049    | 3.444  | ng    | # 91        |
| 92) Benzo(g,h,i)perylene       | 17.43 | 276  | 251661   | 11.135 | ng    | 100         |

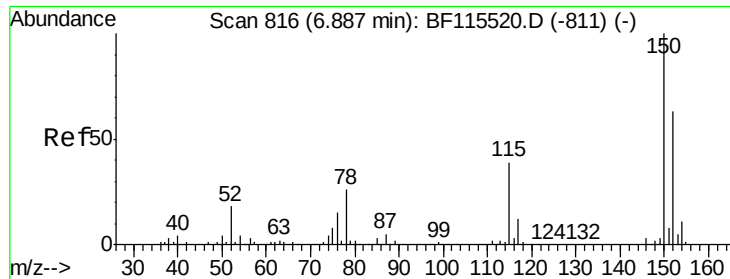
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071519\  
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Sample : K3626-05DL 2X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :

Quant Time: Jul 16 05:55:57 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 14:03:52 2019  
Response via : Initial Calibration



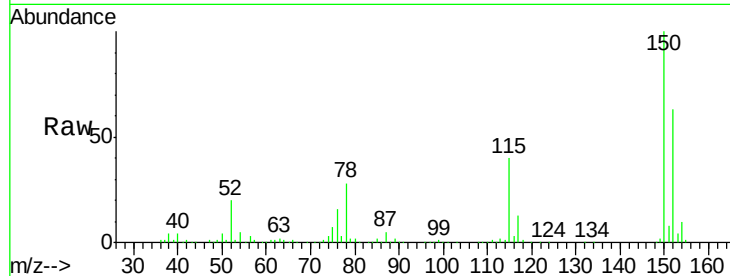


#1

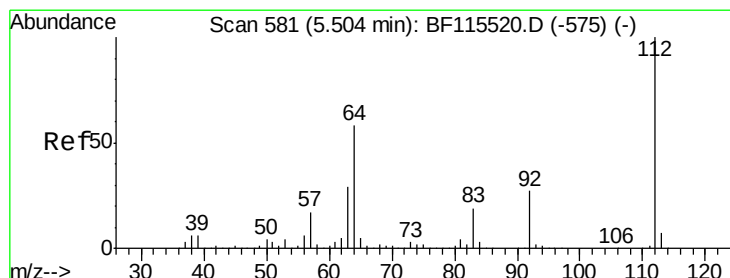
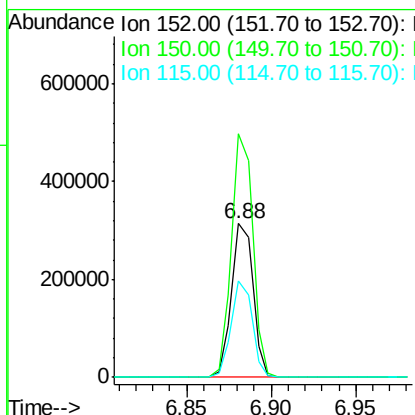
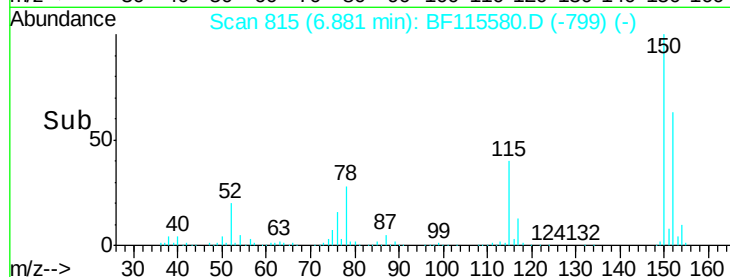
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 279041  
Ion Ratio Lower Upper  
152 100  
150 158.3 129.7 194.5  
115 62.7 48.2 72.4



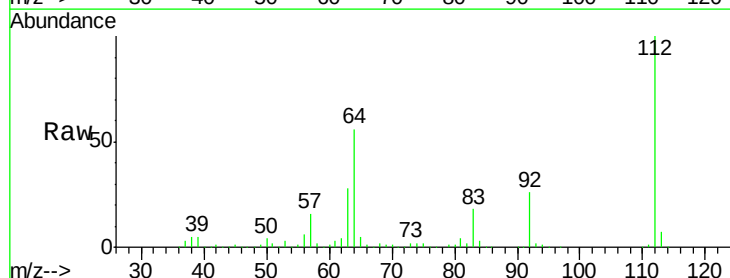
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



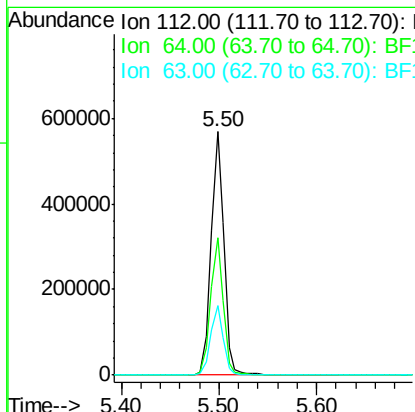
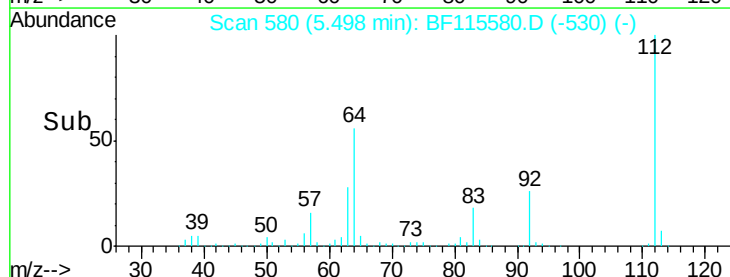
#5

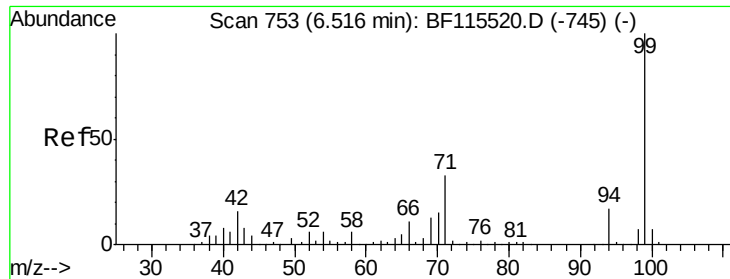
2-Fluorophenol  
Concen: 30.576 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Tgt Ion:112 Resp: 521610  
Ion Ratio Lower Upper  
112 100  
64 56.4 46.8 70.2  
63 28.3 24.1 36.1



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: 31.673 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampled :

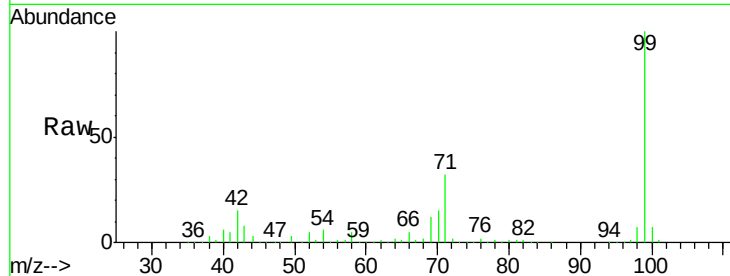
Tot Ion: 99 Resp: 685594

Ion Ratio Lower Upper

99 100

42 15.4 13.6 20.4

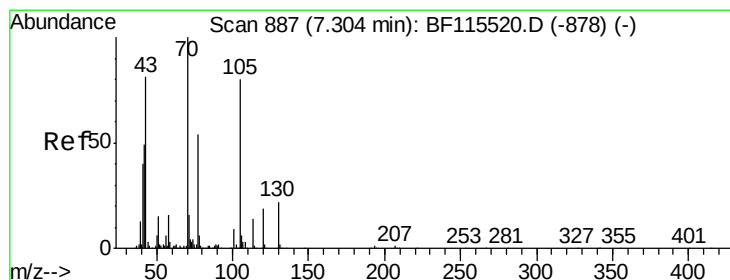
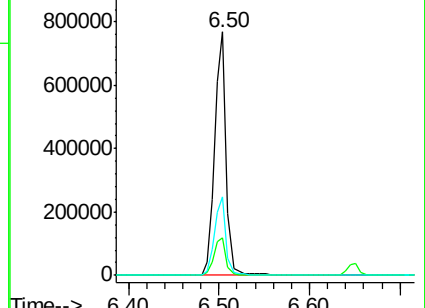
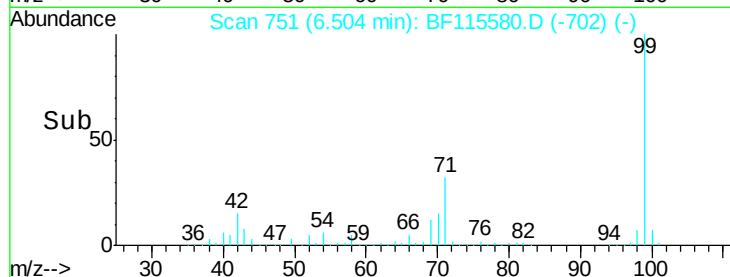
71 32.1 28.5 42.7



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: 3.232 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.13 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Tgt Ion: 70 Resp: 45623

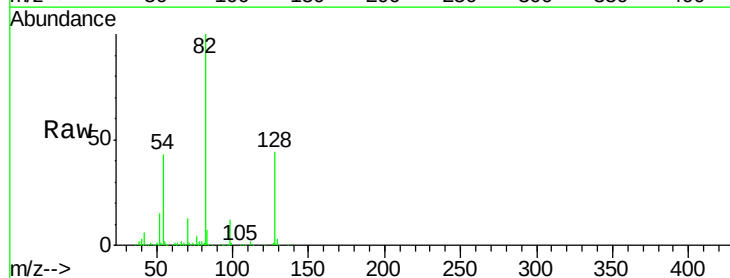
Ion Ratio Lower Upper

70 100

42 43.4 39.6 59.4

101 0.0 8.1 12.1#

130 2.1 18.2 27.2#

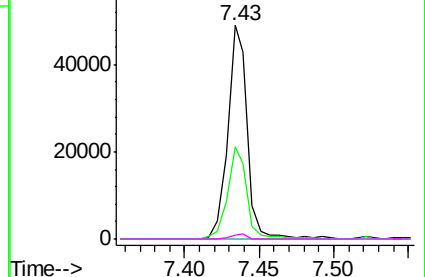
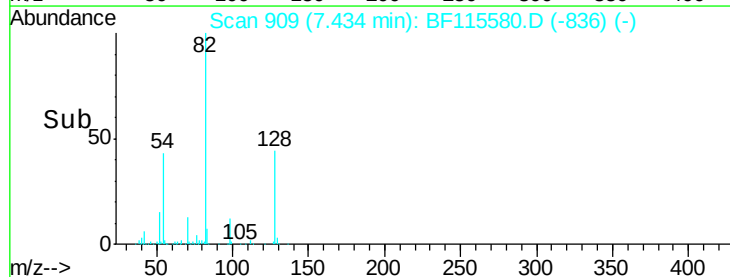


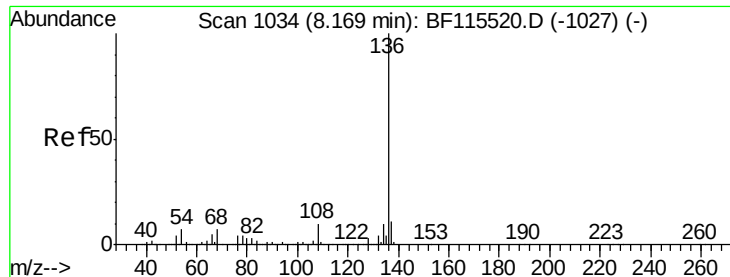
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

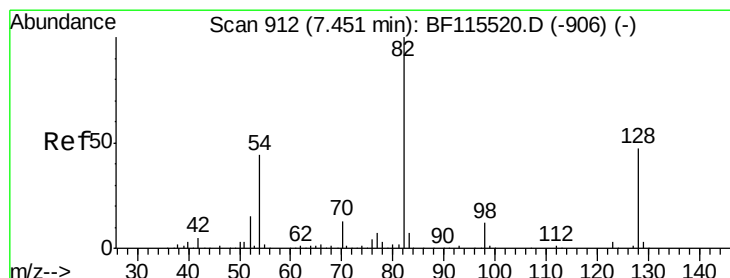
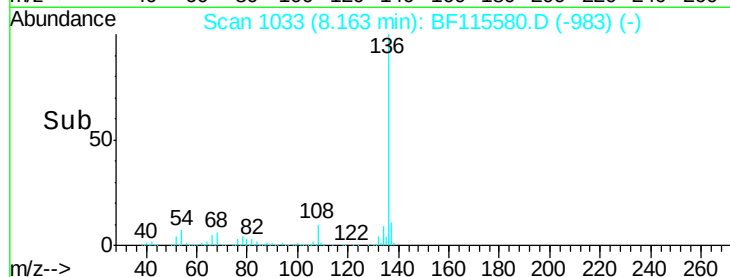
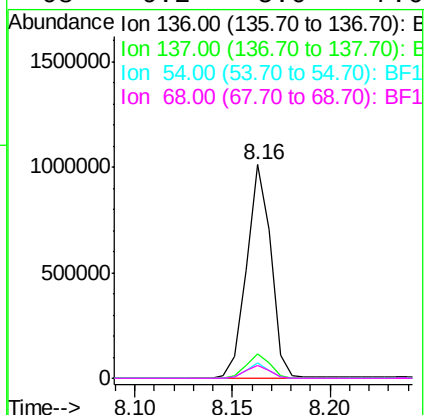
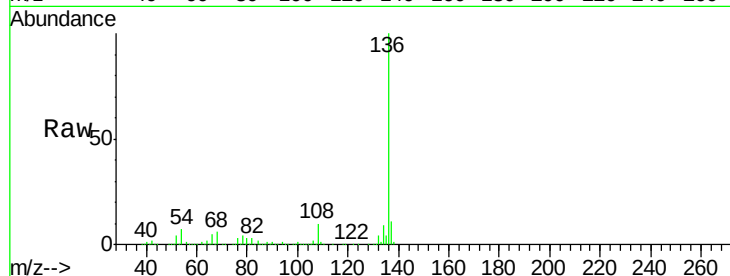




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

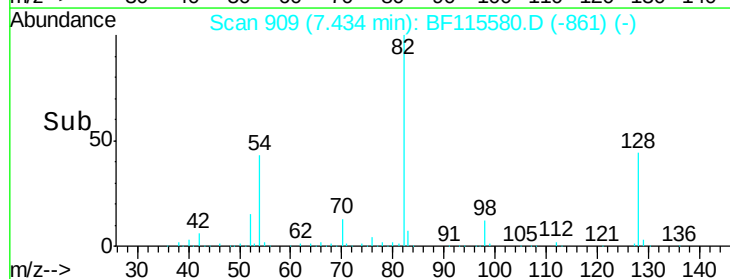
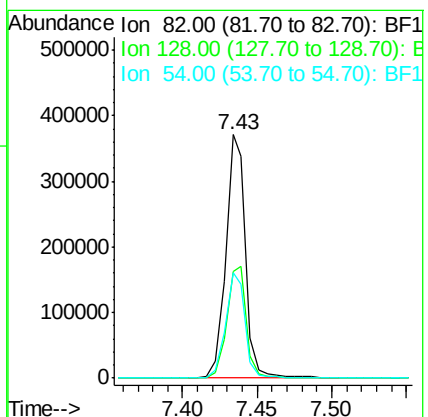
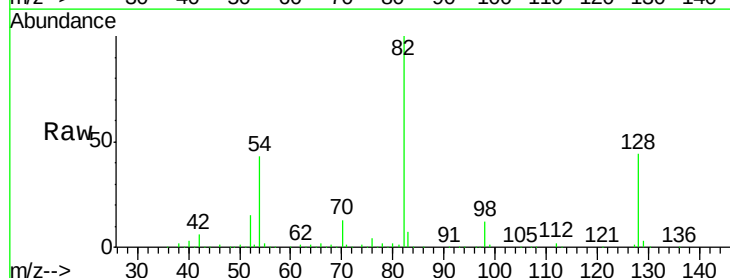
Instrument :  
BNA\_F  
ClientSampleId :

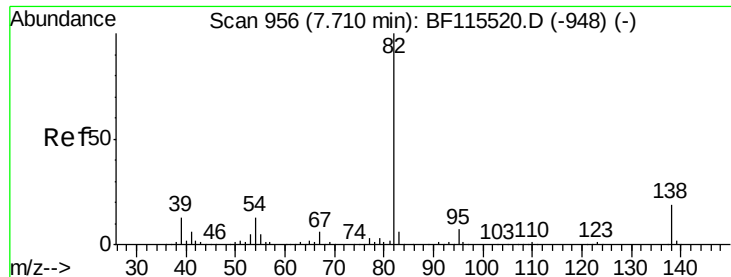
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 877734 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.3    | 9.0   | 13.4   |
| 54 7.1      | 5.6   | 8.4    |
| 68 6.2      | 5.0   | 7.6    |



#23  
Nitrobenzene-d5  
Concen: 22.948 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 346406 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 43.6    | 38.6  | 57.8   |
| 54  | 43.3    | 35.6  | 53.4   |





#25

Isophorone

Concen: 11.254 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.28 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

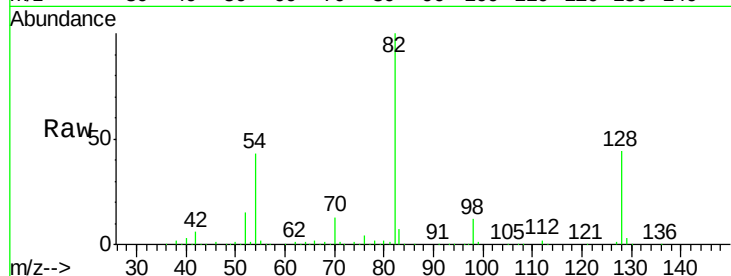
Tot Ion: 82 Resp: 339920

Ion Ratio Lower Upper

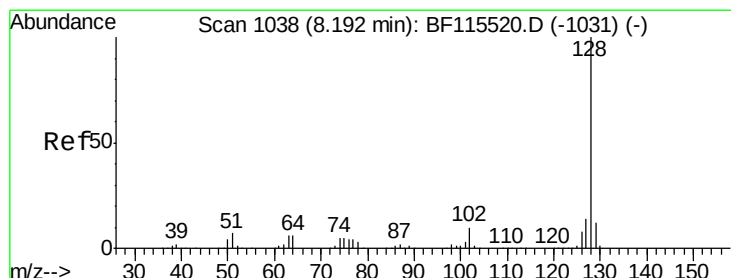
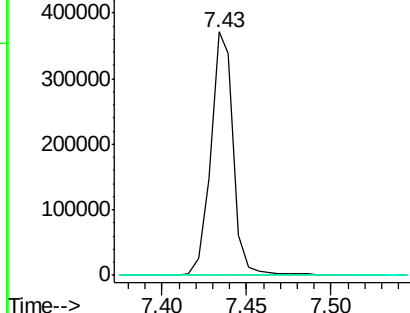
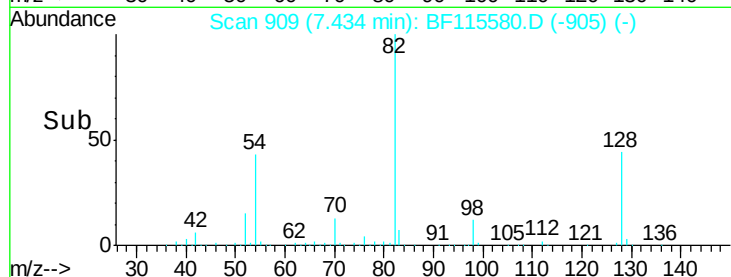
82 100

95 0.0 5.5 8.3#

138 0.0 14.9 22.3#



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



#31

Naphthalene

Concen: 7.982 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

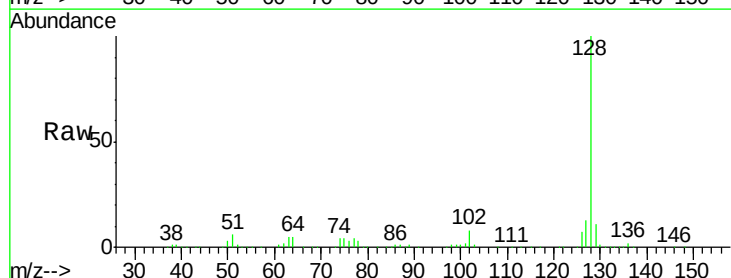
Tgt Ion: 128 Resp: 339292

Ion Ratio Lower Upper

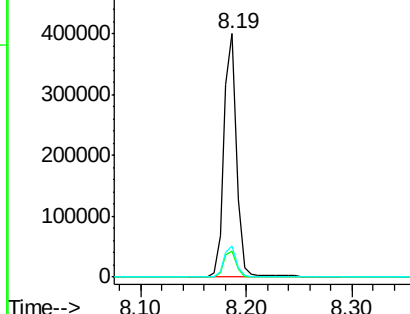
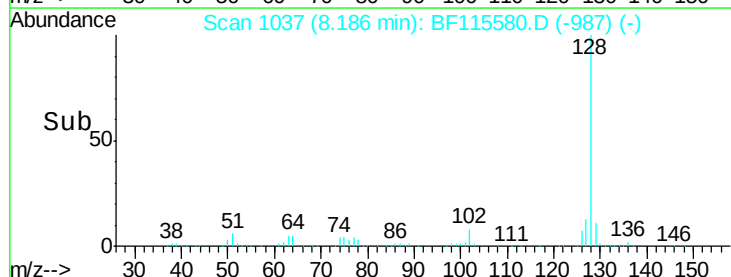
128 100

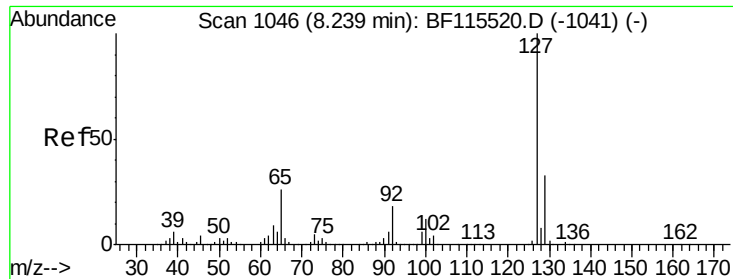
129 10.6 9.9 14.9

127 13.0 12.1 18.1



Abundance Ion 128.00 (127.70 to 128.70): BF1  
Ion 129.00 (128.70 to 129.70): BF1  
Ion 127.00 (126.70 to 127.70): BF1

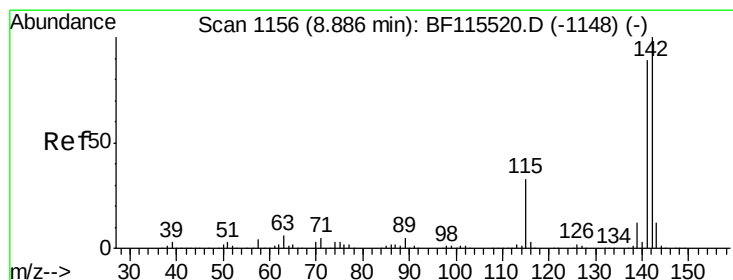
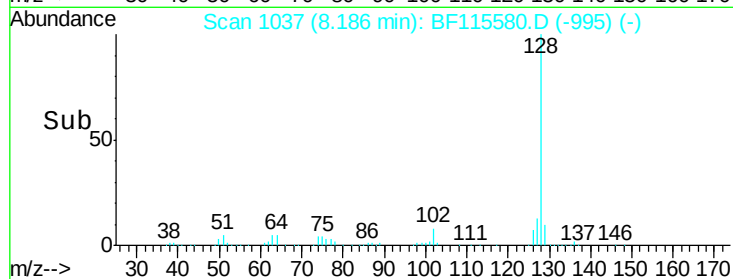
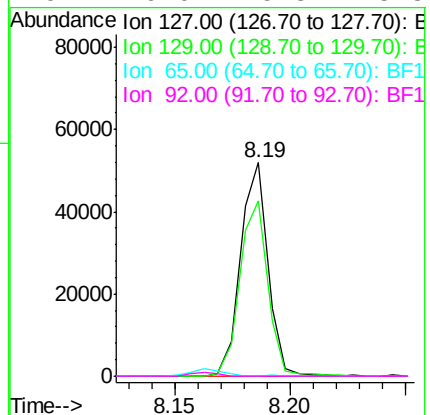
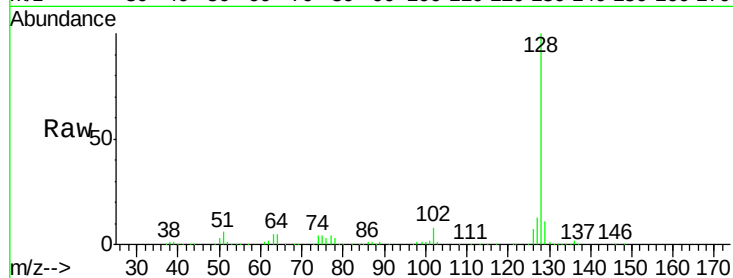




#33  
4-Chloroaniline  
Concen: 2.293 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. -0.05 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

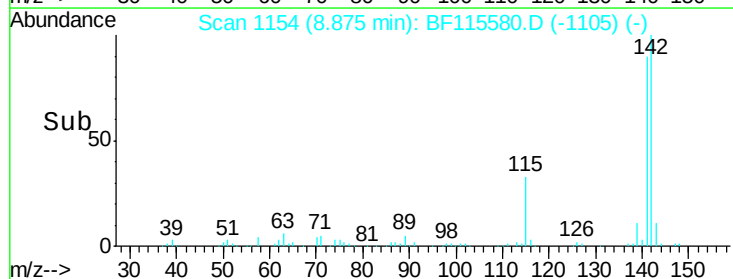
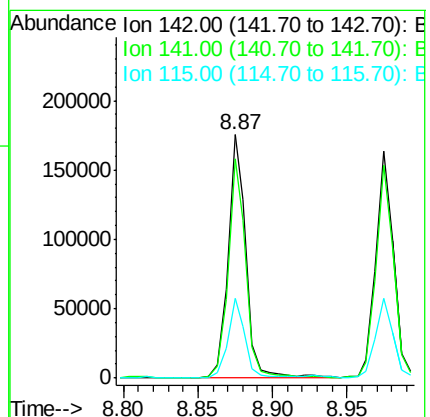
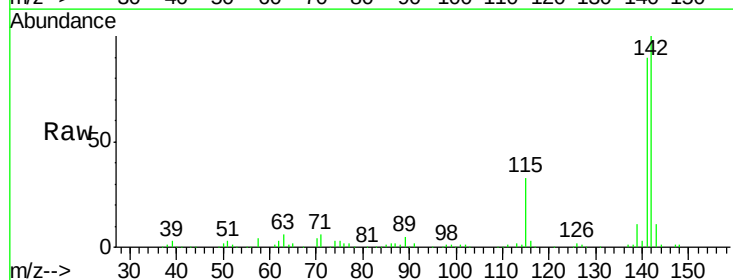
Instrument :  
BNA\_F  
ClientSampleId :

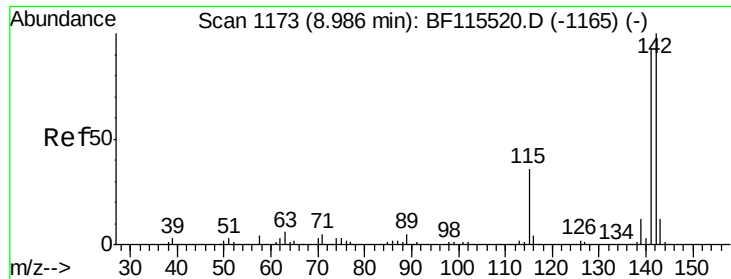
|             |       |            |
|-------------|-------|------------|
| Tot Ion:127 | Resp: | 43184      |
| Ion Ratio   | Lower | Upper      |
| 127         | 100   |            |
| 129         | 82.0  | 26.6 39.8# |
| 65          | 0.0   | 23.7 35.5# |
| 92          | 0.0   | 15.8 23.8# |



#37  
2-Methylnaphthalene  
Concen: 5.327 ng  
RT: 8.87 min Scan# 1154  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 150102     |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 89.9  | 72.0 108.0 |
| 115         | 32.8  | 29.9 44.9  |

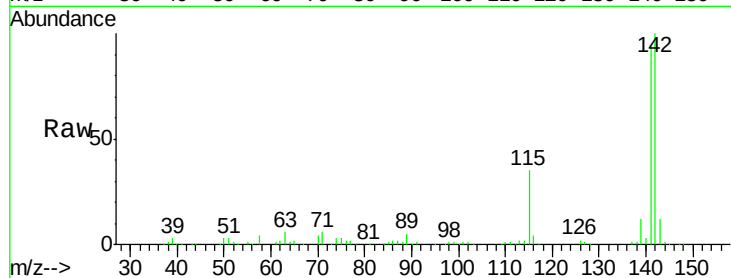




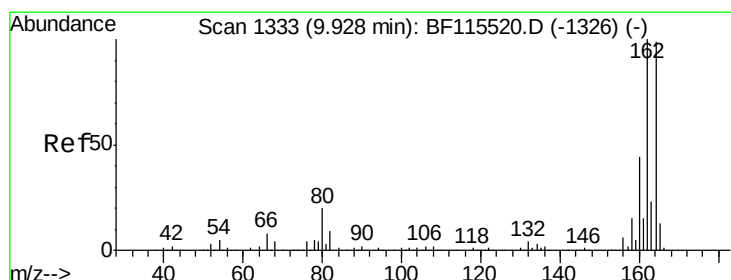
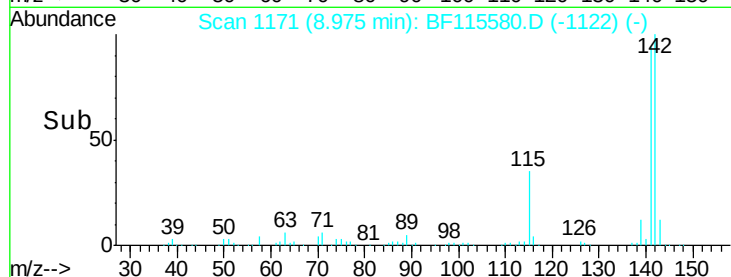
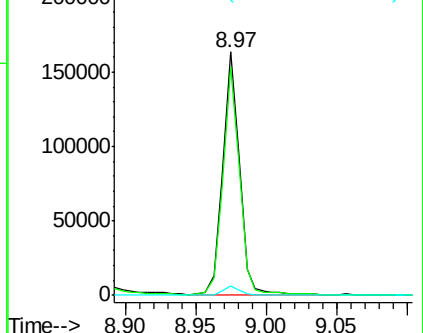
#38  
1-Methylnaphthalene  
Concen: 5.047 ng  
RT: 8.97 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 135088  
Ion Ratio Lower Upper  
142 100  
141 94.0 75.3 112.9  
116 3.8 3.3 4.9

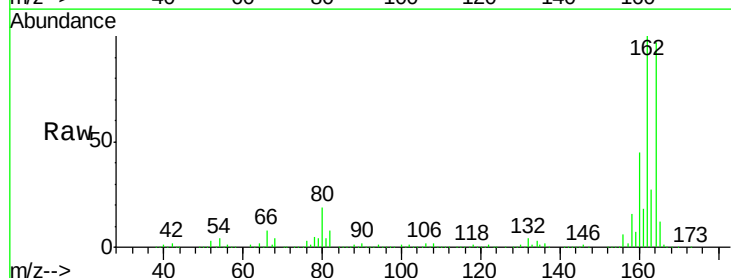


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

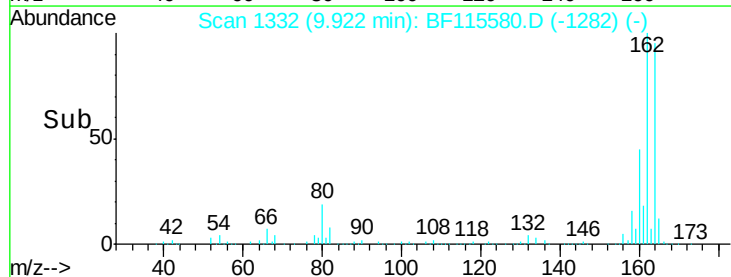
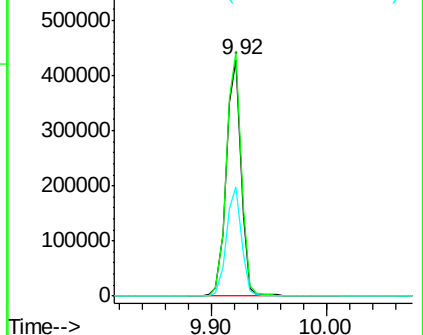


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

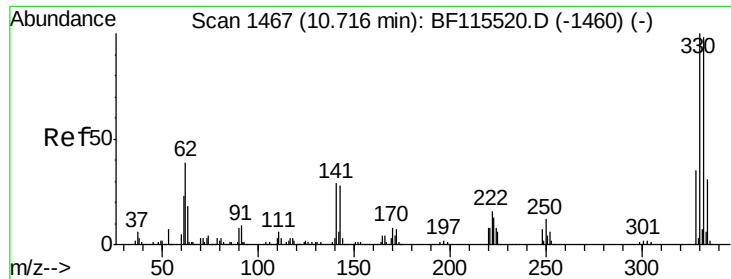
Tgt Ion:164 Resp: 383316  
Ion Ratio Lower Upper  
164 100  
162 103.2 82.9 124.3  
160 46.2 36.8 55.2



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



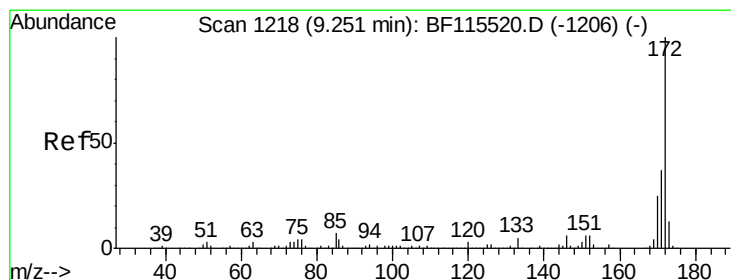
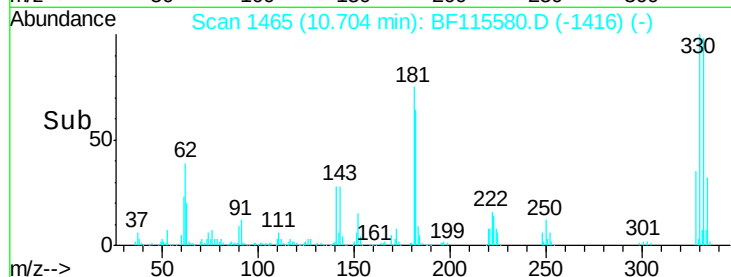
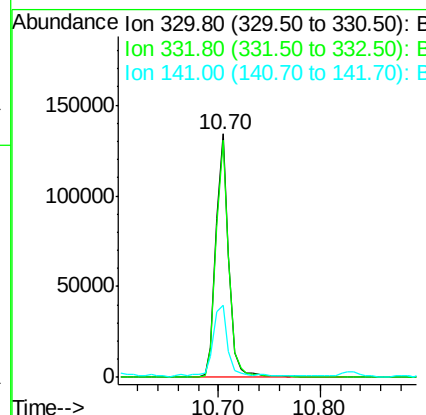
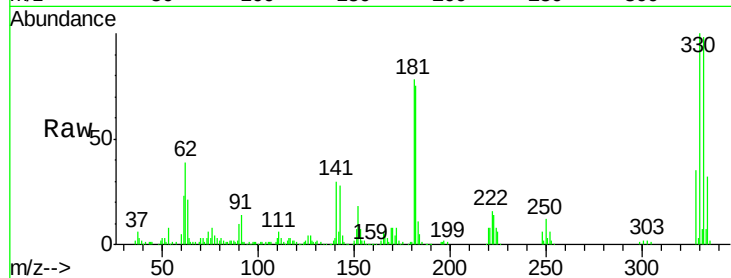




#42  
 2,4,6-Tribromophenol  
 Concen: 26.777 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

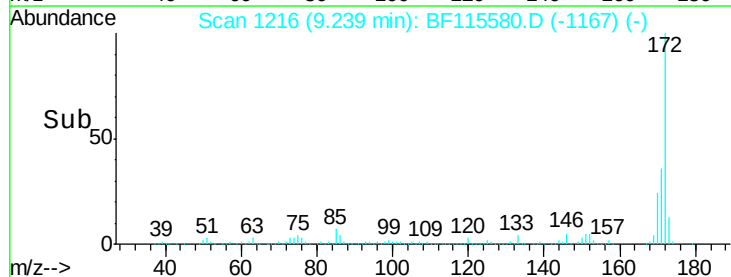
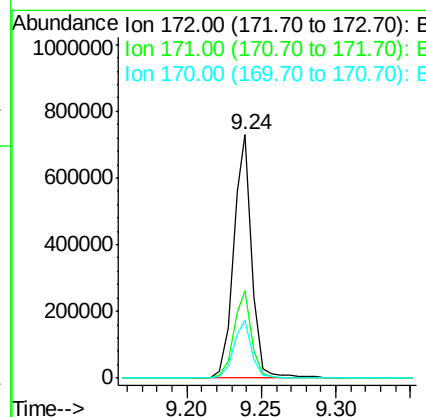
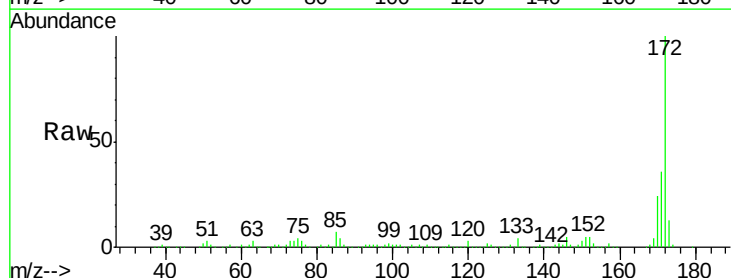
Instrument :  
 BNA\_F  
 ClientSampleId :

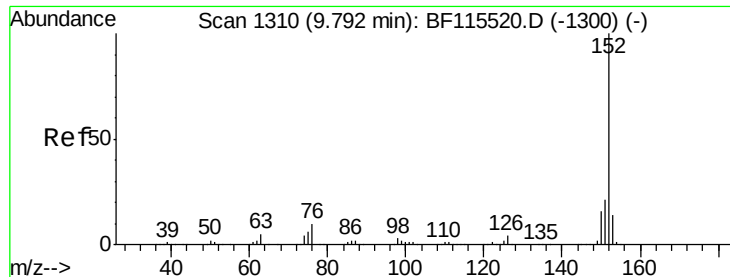
Tot Ion:330 Resp: 119805  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 77.4 116.2  
 141 32.8 22.4 33.6



#45  
 2-Fluorobiphenyl  
 Concen: 28.724 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

Tgt Ion:172 Resp: 629064  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 30.6 46.0  
 170 23.7 20.5 30.7





#49

Acenaphthylene

Concen: 2.990 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

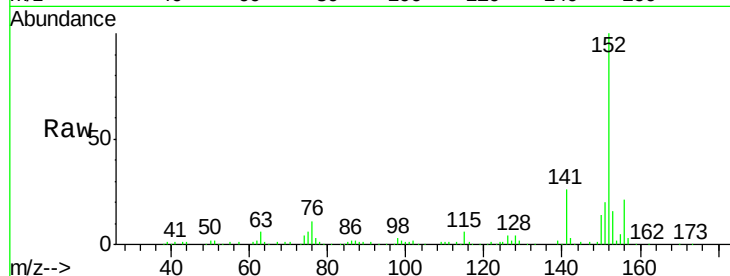
Tot Ion:152 Resp: 110558

Ion Ratio Lower Upper

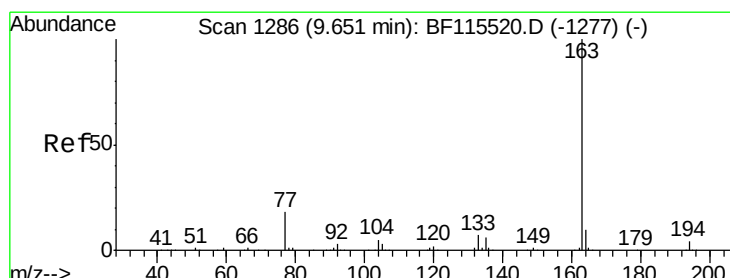
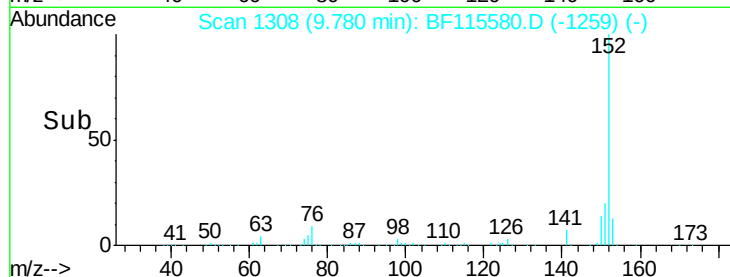
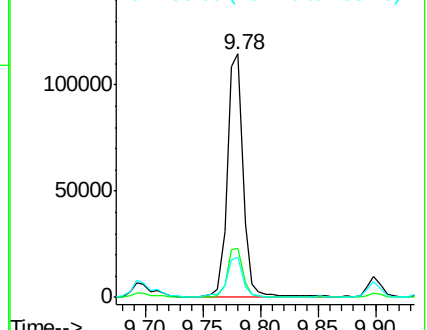
152 100

151 20.0 17.7 26.5

153 16.3 12.0 18.0



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 2.489 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

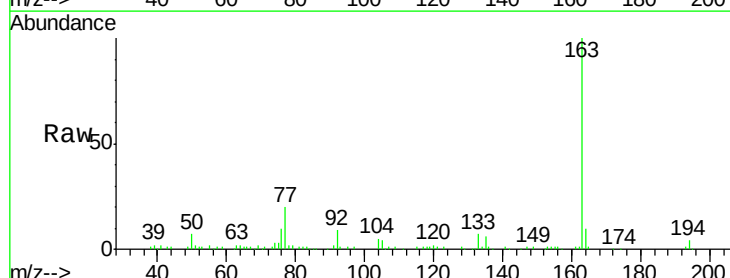
Tgt Ion:163 Resp: 71782

Ion Ratio Lower Upper

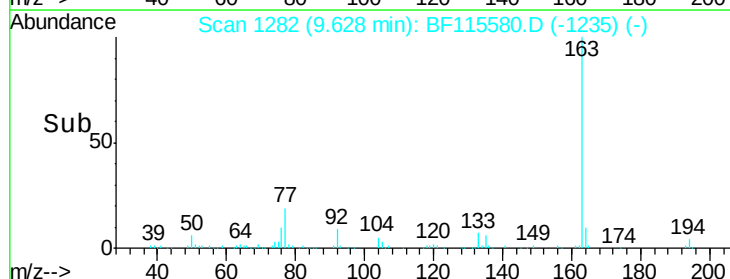
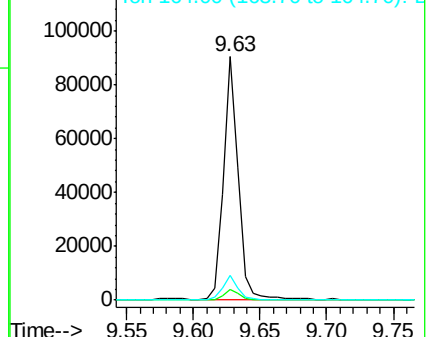
163 100

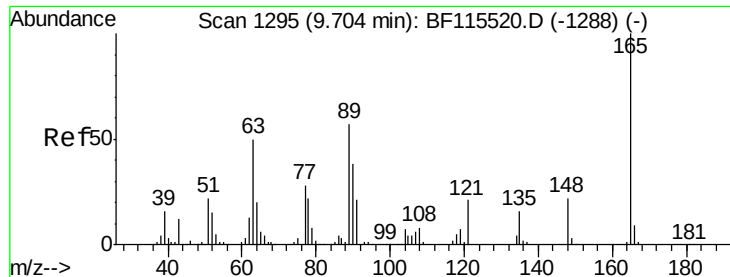
194 4.3 3.3 4.9

164 10.2 8.7 13.1



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

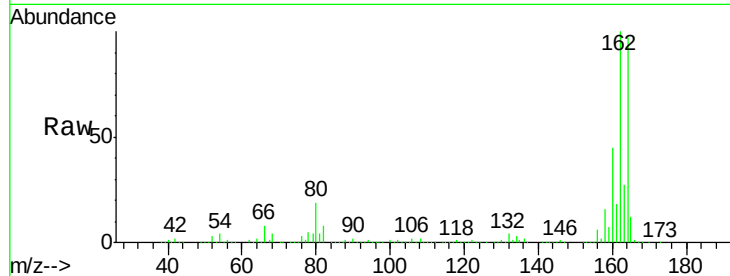




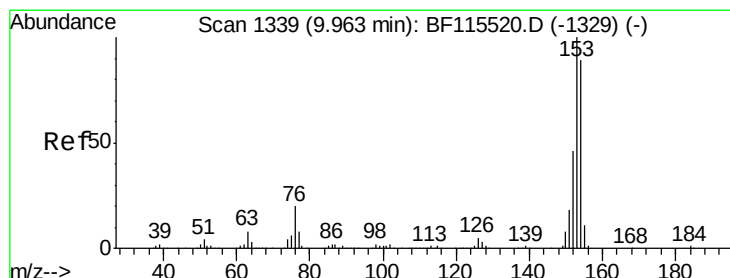
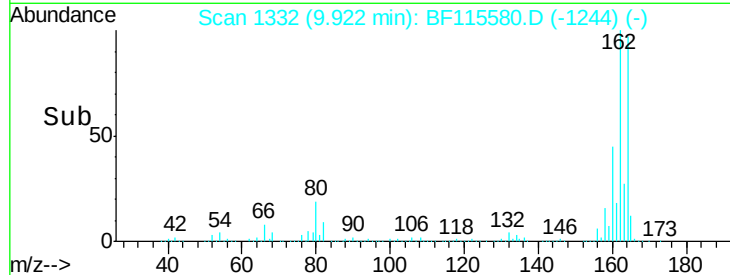
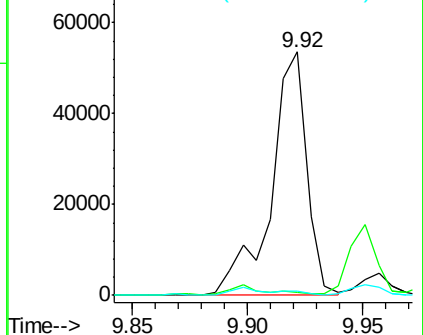
#51  
 2,6-Dinitrotoluene  
 Concen: 8.776 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.22 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 40.6  | 61.0# |
| 89      | 1.9   | 43.9  | 65.9# |

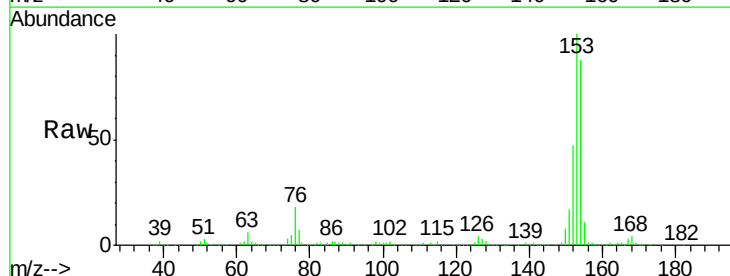


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

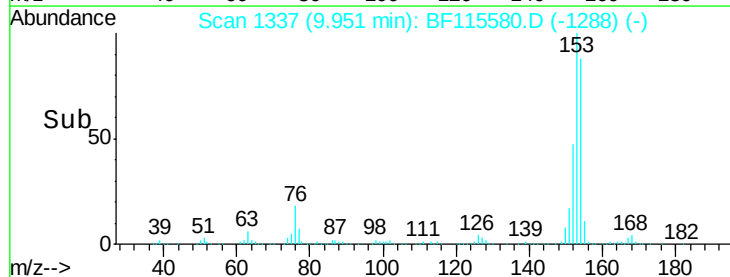
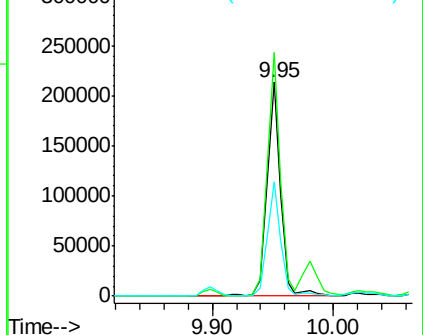


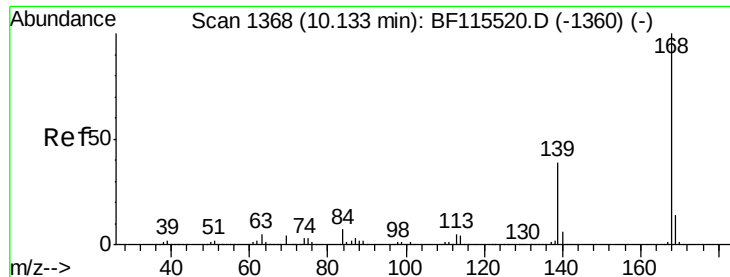
#52  
 Acenaphthene  
 Concen: 7.071 ng  
 RT: 9.95 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.8 | 88.6  | 133.0 |
| 152     | 53.7  | 42.3  | 63.5  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 8.455 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

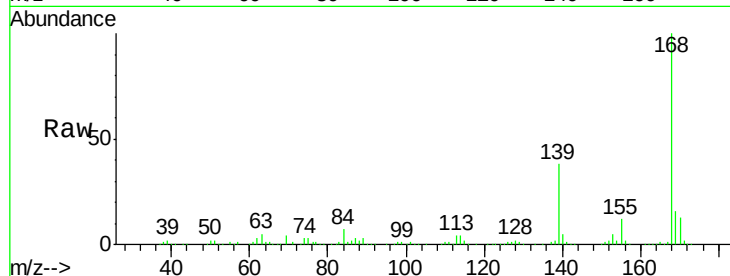
Tot Ion:168 Resp: 286608

Ion Ratio Lower Upper

168 100

139 37.9 31.1 46.7

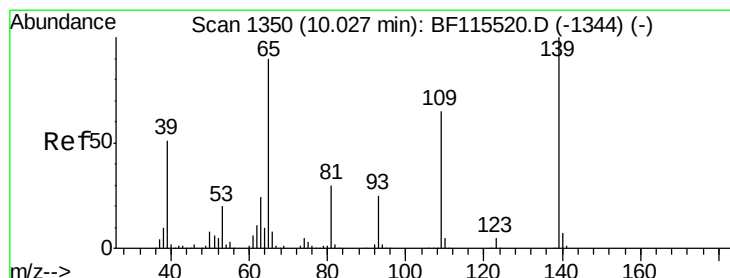
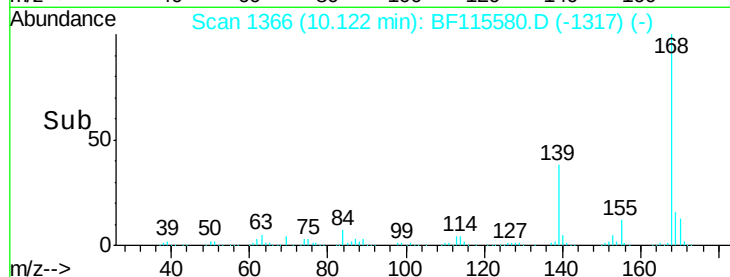
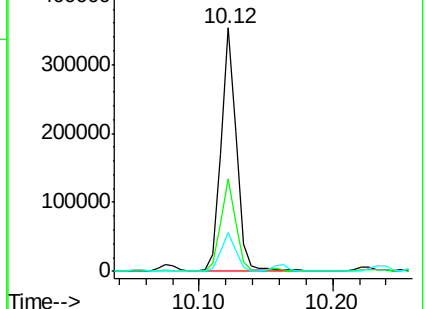
169 15.8 11.1 16.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 18.787 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.09 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

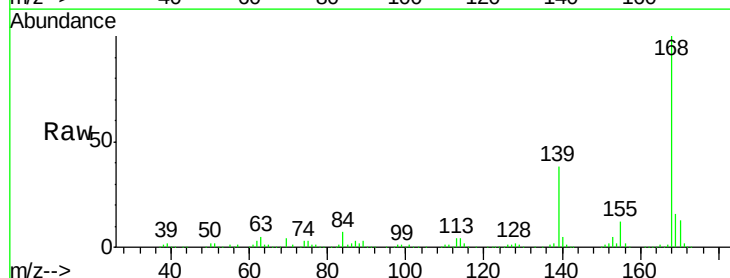
Tgt Ion:139 Resp: 107294

Ion Ratio Lower Upper

139 100

109 1.1 46.4 86.4#

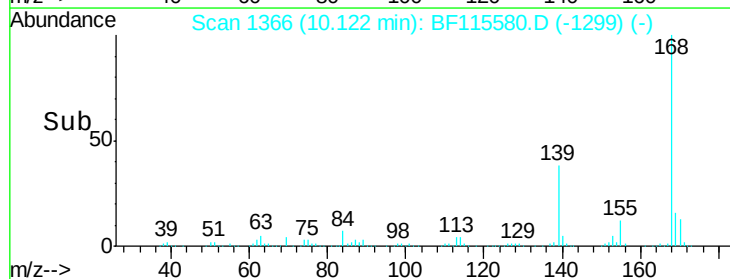
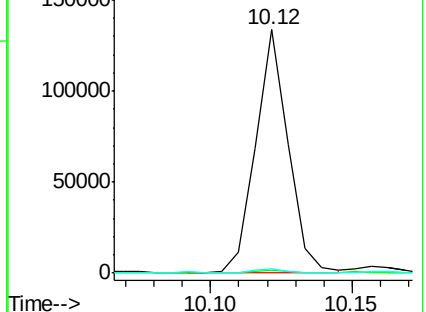
65 1.8 68.9 108.9#

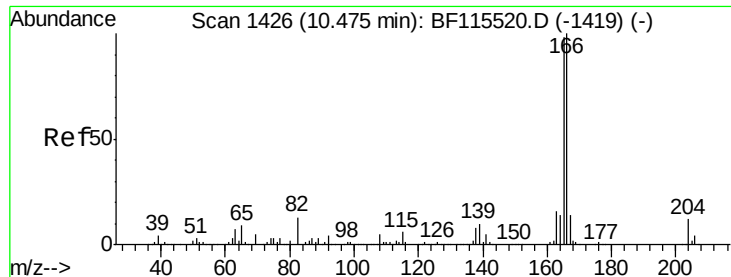


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

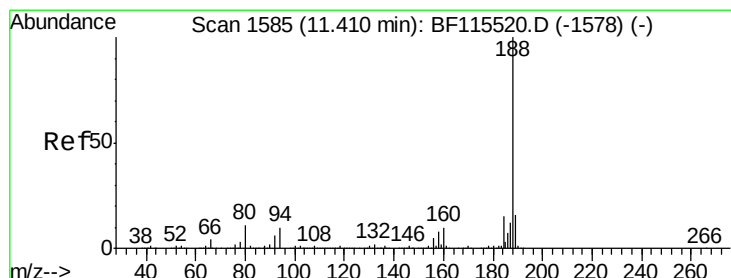
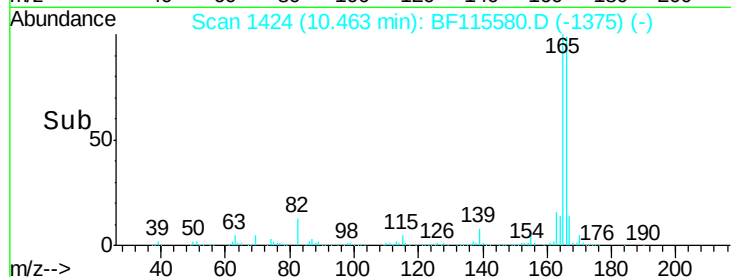
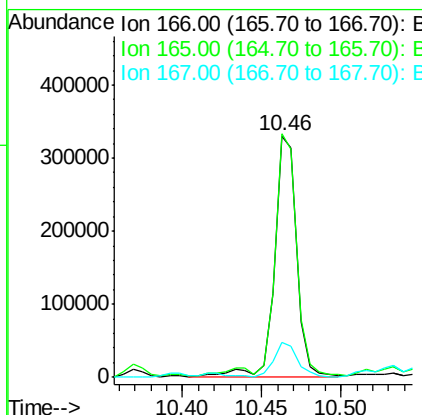
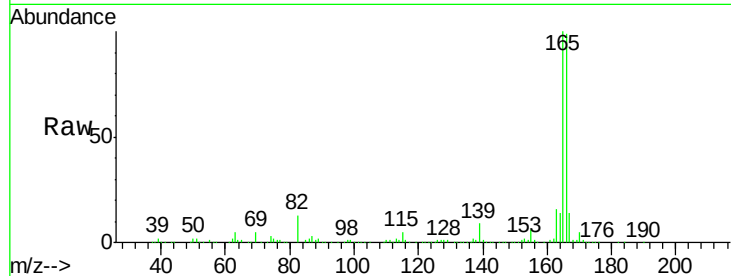




#58  
 Fluorene  
 Concen: 13.087 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

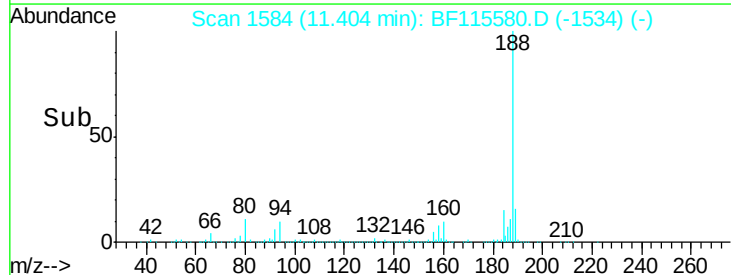
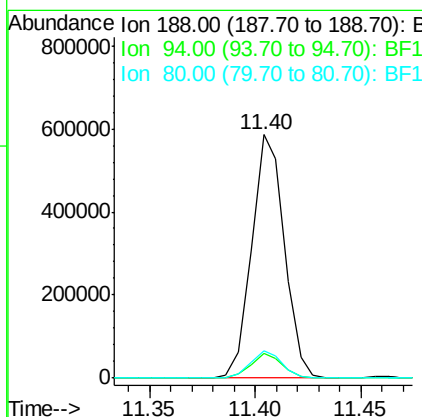
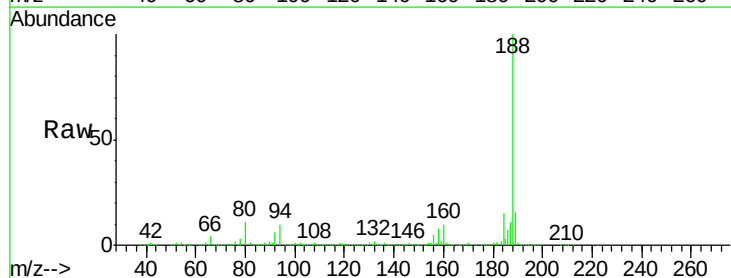
Instrument :  
 BNA\_F  
 ClientSampleId :

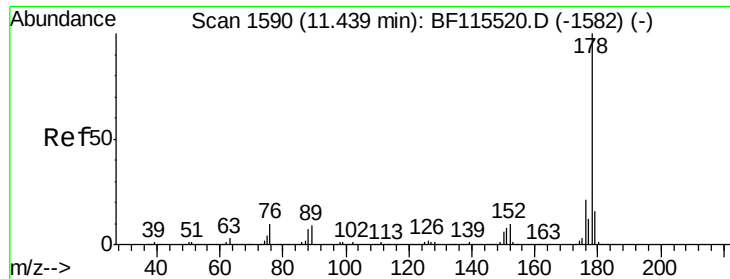
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.0 | 79.8  | 119.6 |
| 167     | 14.4  | 11.2  | 16.8  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.1  | 7.8   | 11.6  |
| 80      | 11.1  | 8.6   | 13.0  |

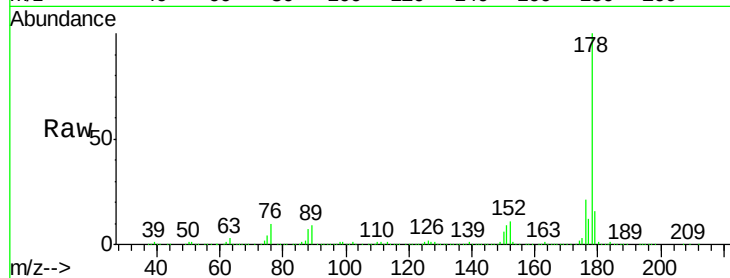




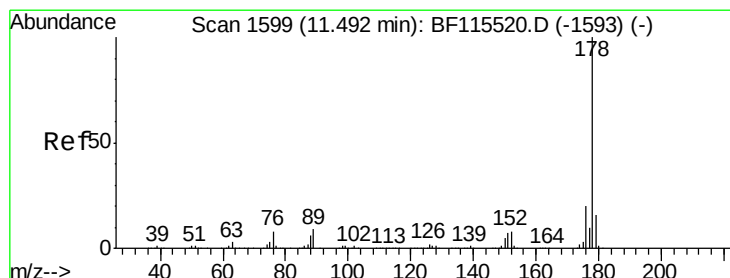
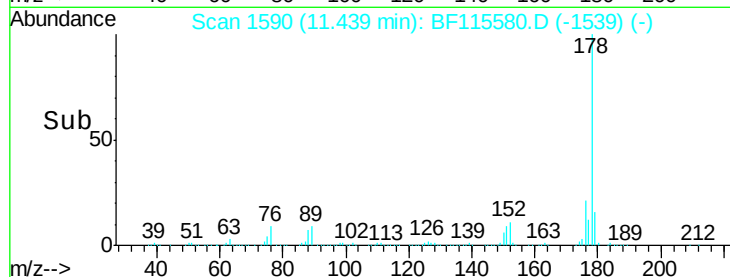
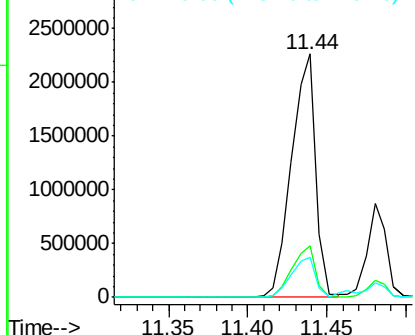
#71  
Phenanthrene  
Concen: 73.916 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. 0.00 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:178 Resp: 2384283  
Ion Ratio Lower Upper  
178 100  
176 21.1 17.2 25.8  
179 16.5 13.5 20.3

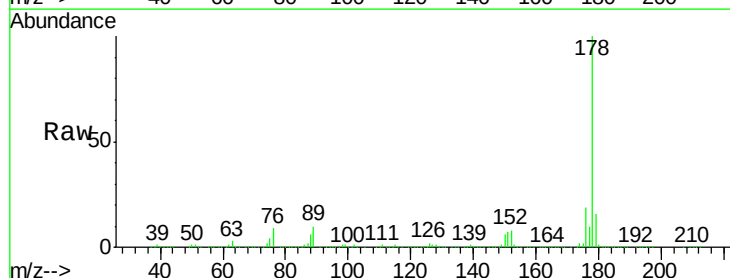


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

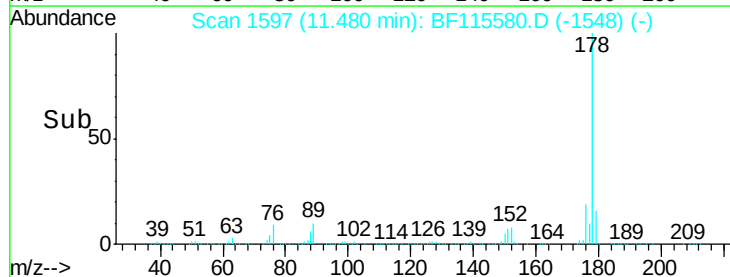
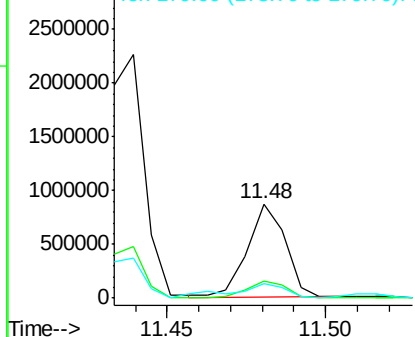


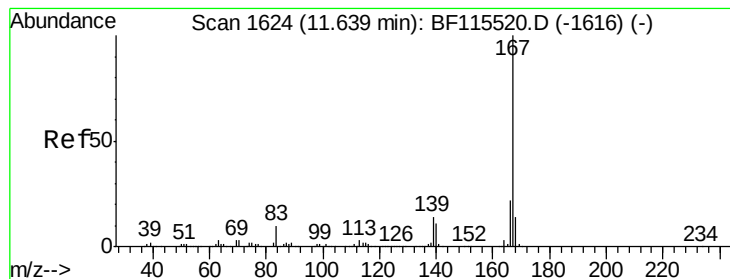
#72  
Anthracene  
Concen: 21.626 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Tgt Ion:178 Resp: 720941  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.9 23.9  
179 15.8 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





#73

Carbazole

Concen: 9.871 ng

RT: 11.63 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

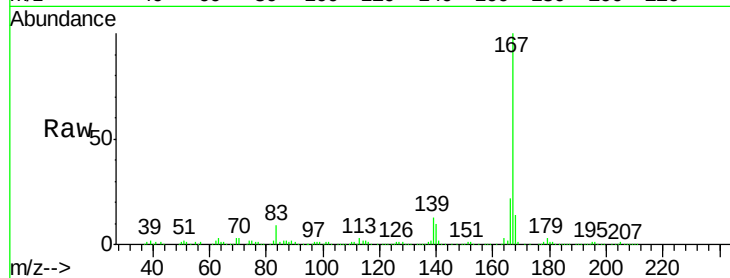
Tot Ion:167 Resp: 288558

Ion Ratio Lower Upper

167 100

166 21.7 18.1 27.1

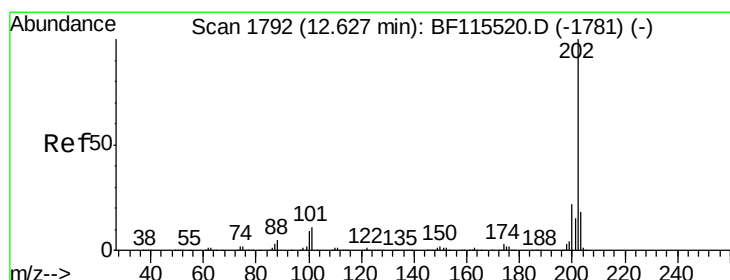
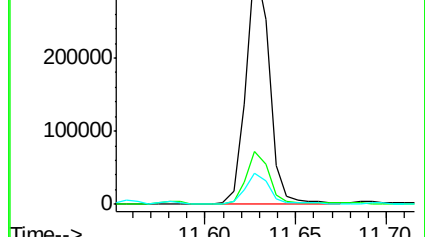
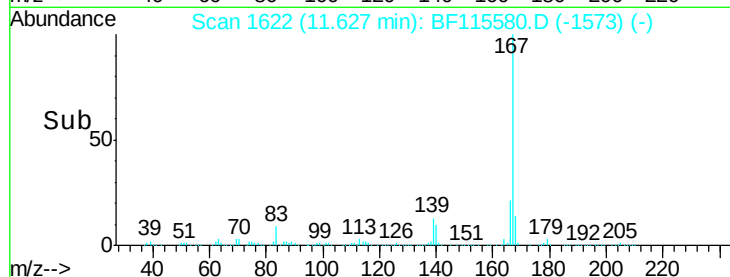
139 12.8 11.3 16.9



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 56.982 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

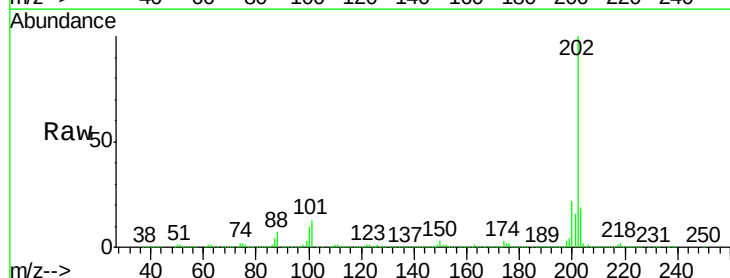
Tgt Ion:202 Resp: 1942327

Ion Ratio Lower Upper

202 100

101 13.0 0.0 31.4

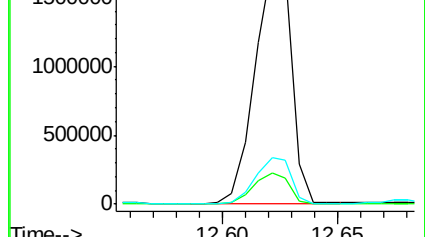
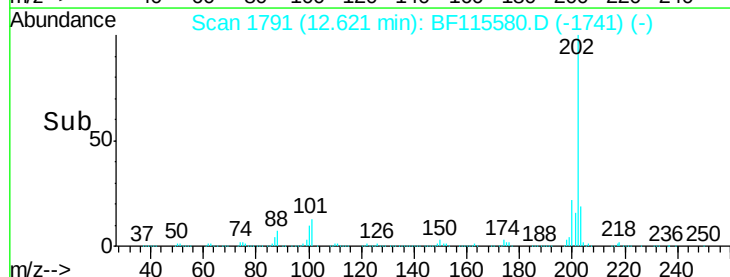
203 19.1 0.0 38.1

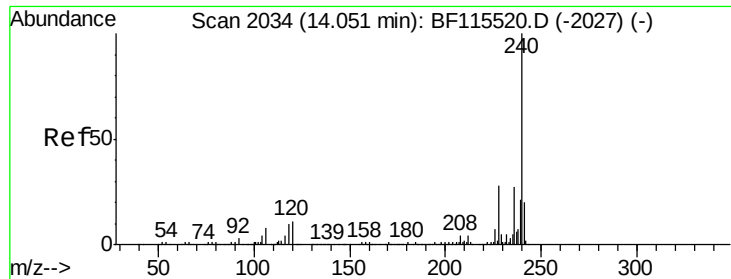


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

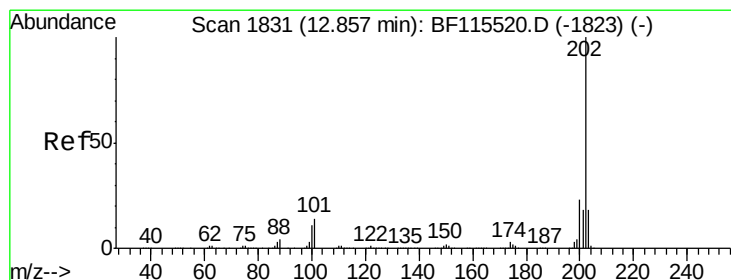
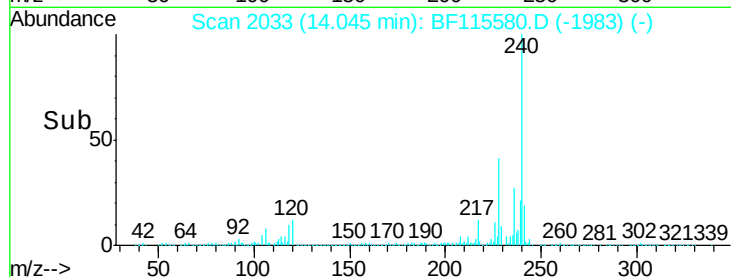
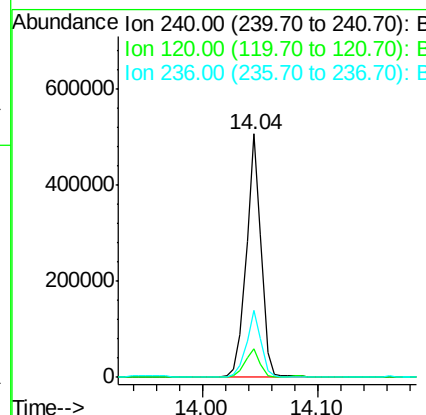
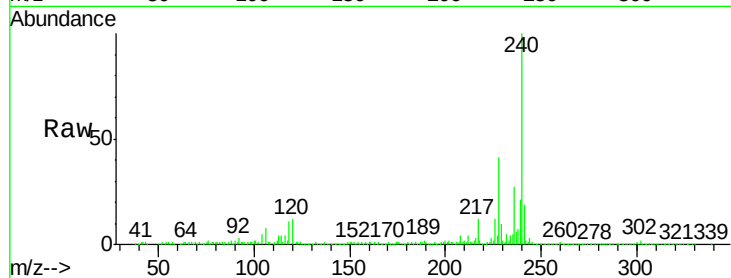




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

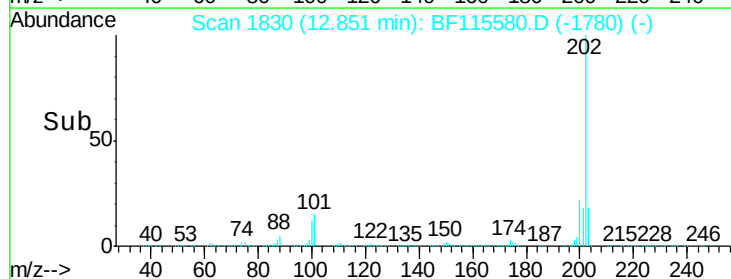
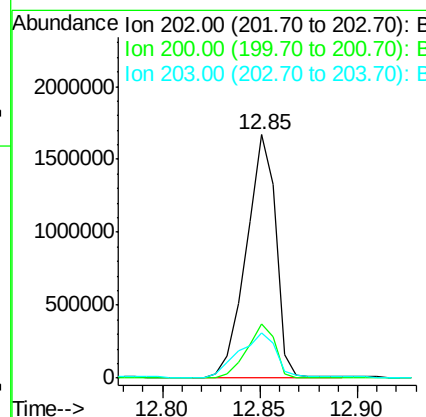
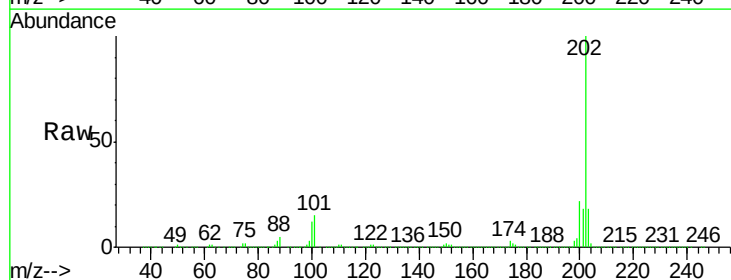
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:240 Resp: 446216  
 Ion Ratio Lower Upper  
 240 100  
 120 11.9 8.6 13.0  
 236 27.3 21.3 31.9

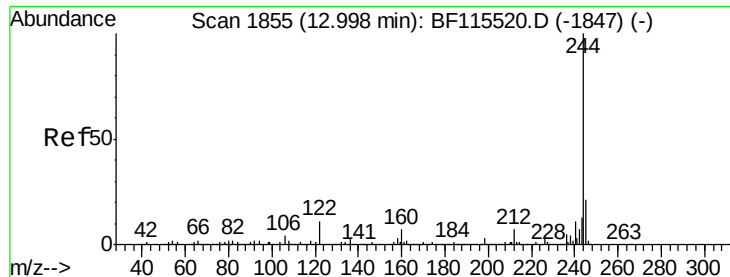


#78  
 Pyrene  
 Concen: 46.199 ng  
 RT: 12.85 min Scan# 1830  
 Delta R.T. -0.01 min  
 Lab File: BF115580.D  
 Acq: 16 Jul 2019 1:52

Tgt Ion:202 Resp: 1746568  
 Ion Ratio Lower Upper  
 202 100  
 200 22.1 18.7 28.1  
 203 18.5 15.2 22.8







#79

Terphenyl-d14

Concen: 22.181 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

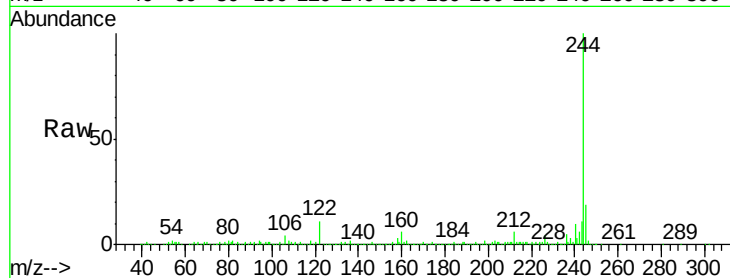
Tot Ion:244 Resp: 536401

Ion Ratio Lower Upper

244 100

212 6.2 6.0 9.0

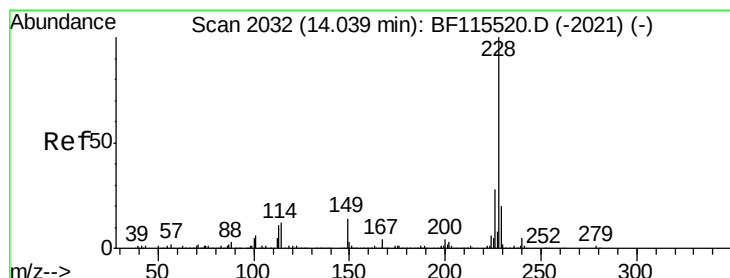
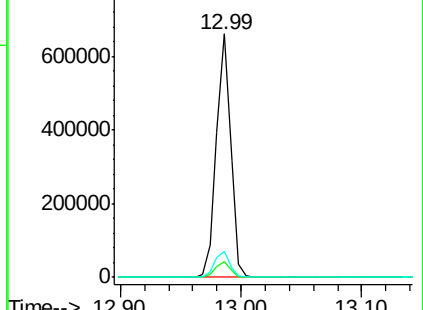
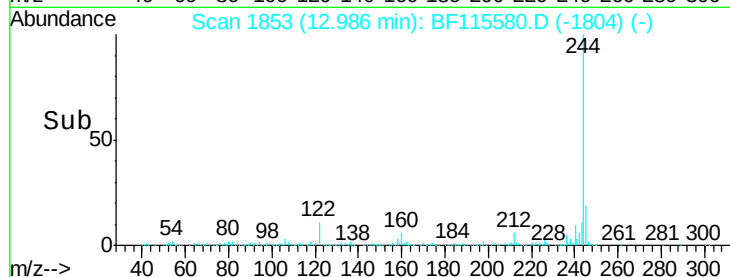
122 10.7 8.6 12.8



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: 30.475 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

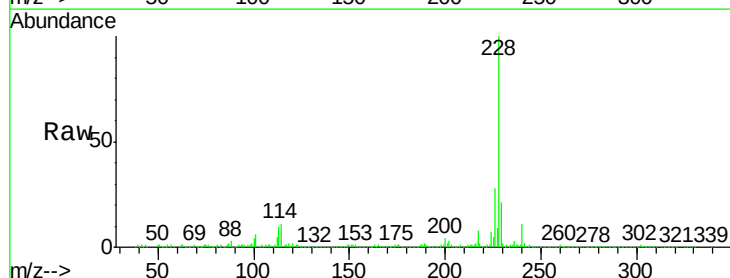
Tgt Ion:228 Resp: 895877

Ion Ratio Lower Upper

228 100

226 28.0 23.4 35.0

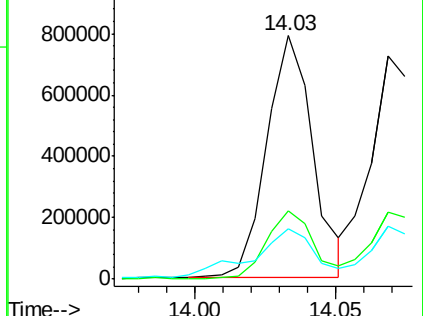
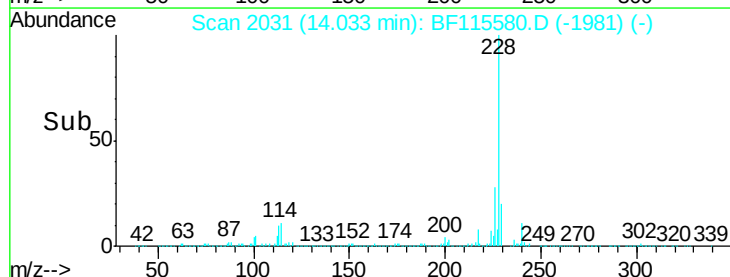
229 20.9 17.2 25.8

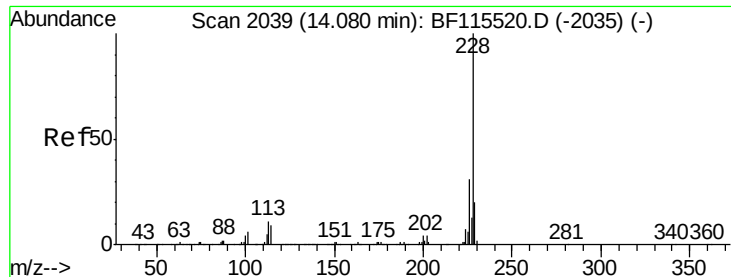


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 25.247 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampleId :

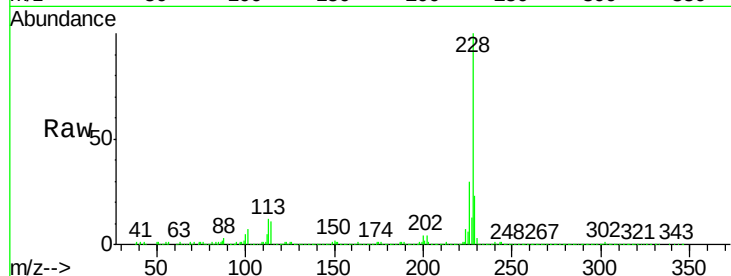
Tot Ion:228 Resp: 745048

Ion Ratio Lower Upper

228 100

226 29.8 25.7 38.5

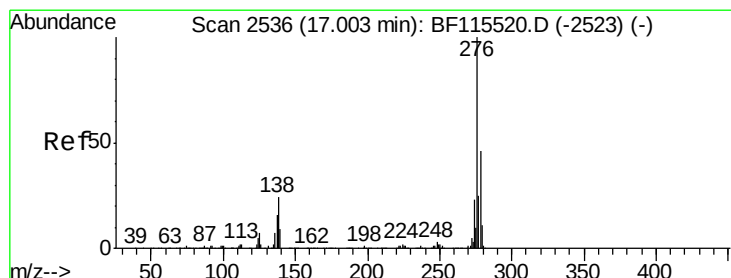
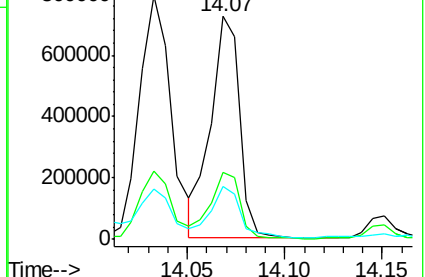
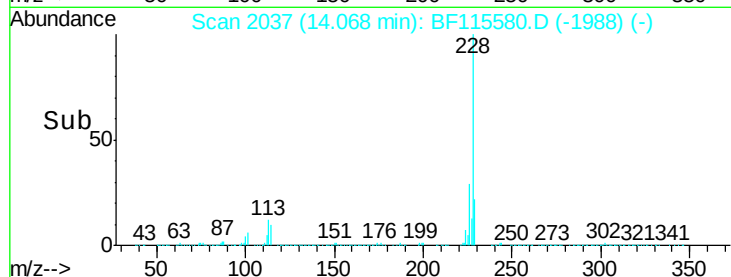
229 23.5 16.6 25.0



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 11.262 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.02 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

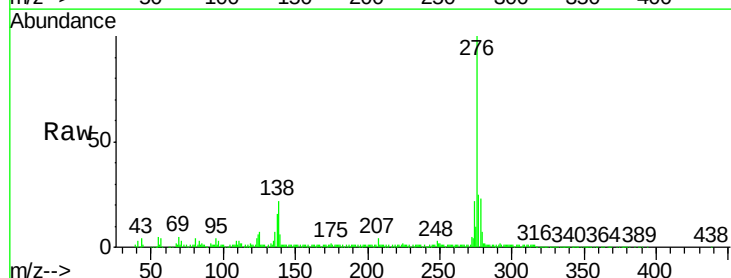
Tgt Ion:276 Resp: 282358

Ion Ratio Lower Upper

276 100

138 20.1 20.2 30.2#

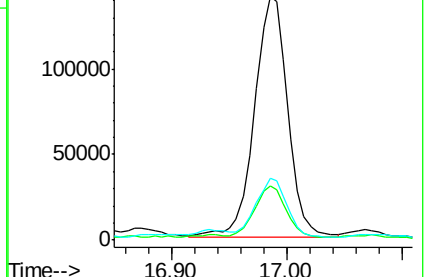
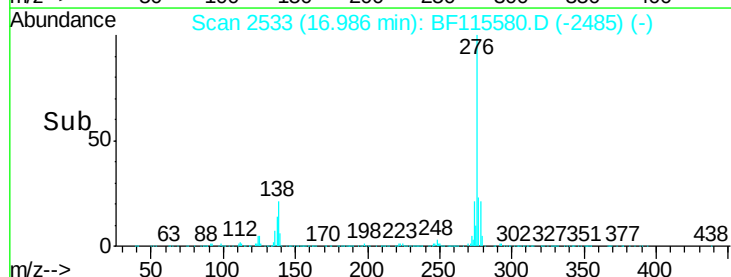
277 22.4 20.4 30.6

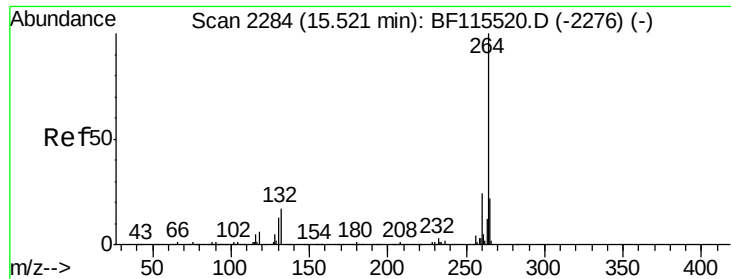


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.52 min Scan# 2283

Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

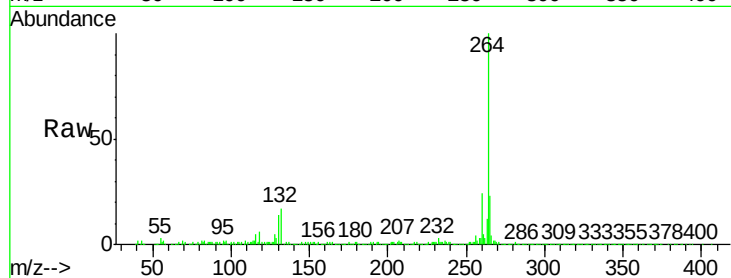
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:264 Resp: 466435

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 19.8  | 29.8  |
| 265 | 23.1  | 17.7  | 26.5  |

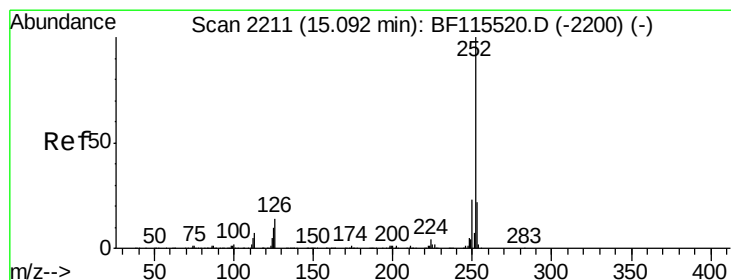
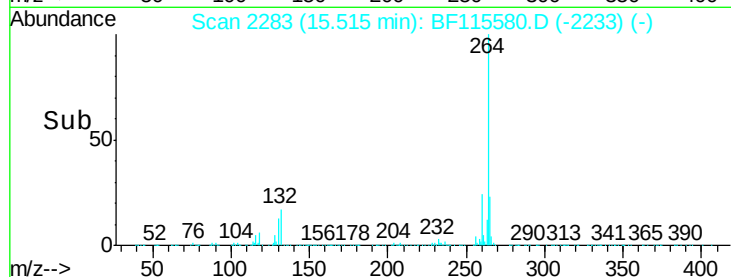
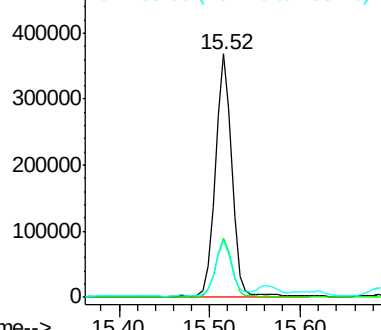


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 33.808 ng

RT: 15.09 min Scan# 2210

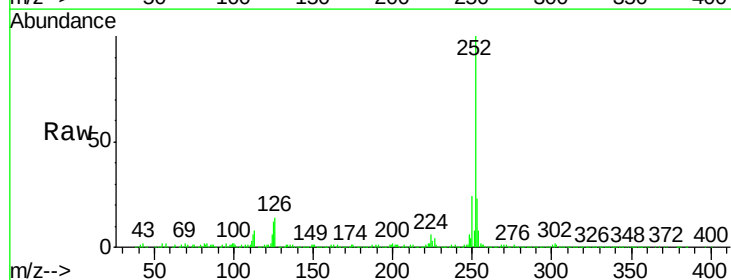
Delta R.T. -0.01 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Tgt Ion:252 Resp: 1015423

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.4  | 18.1  | 27.1  |
| 125 | 11.7  | 9.0   | 13.4  |

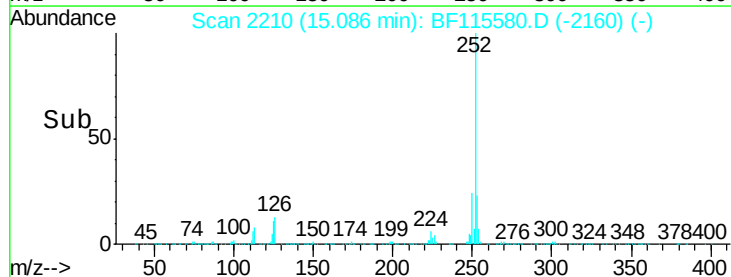
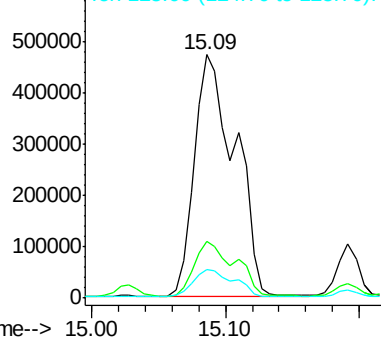


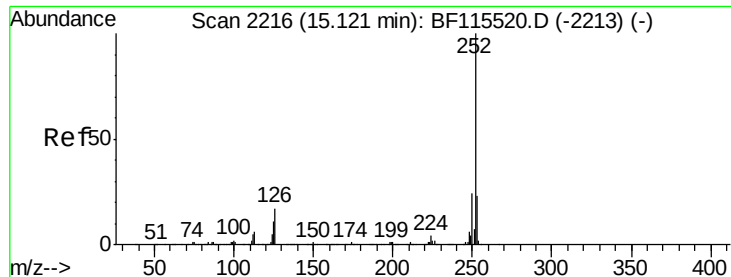
Abundance

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

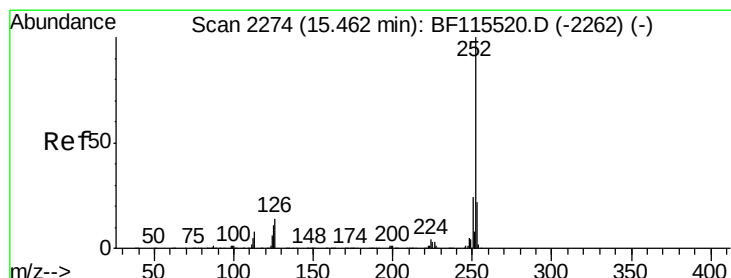
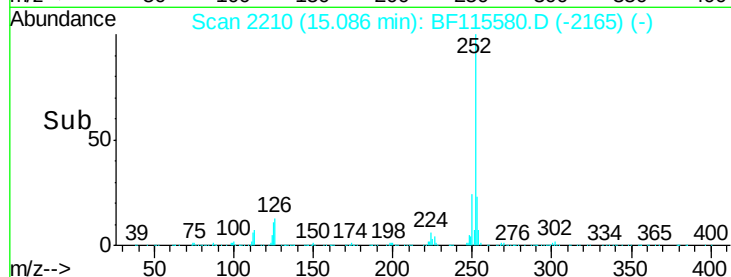
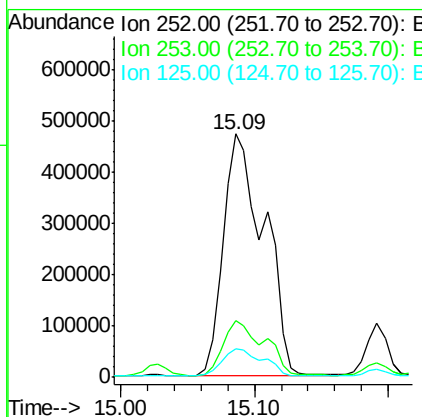
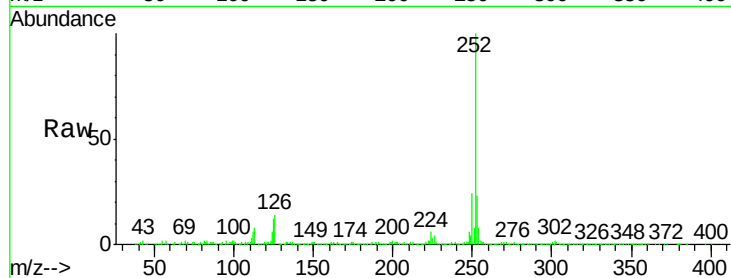




#89  
Benzo(k)fluoranthene  
Concen: 37.921 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.04 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

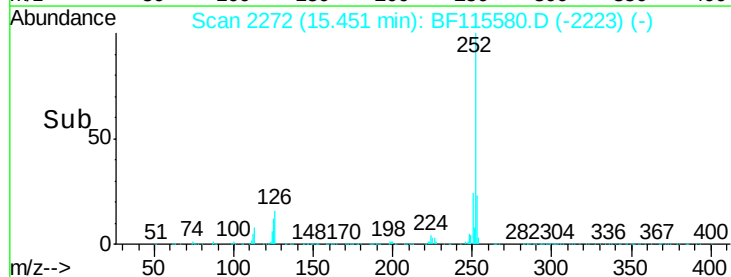
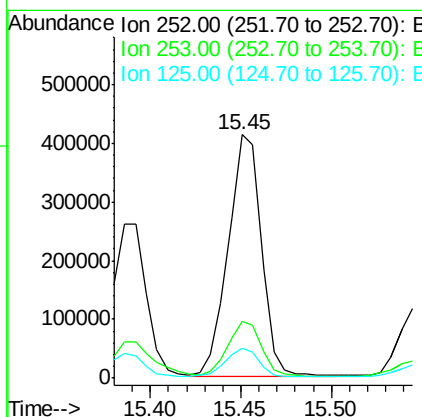
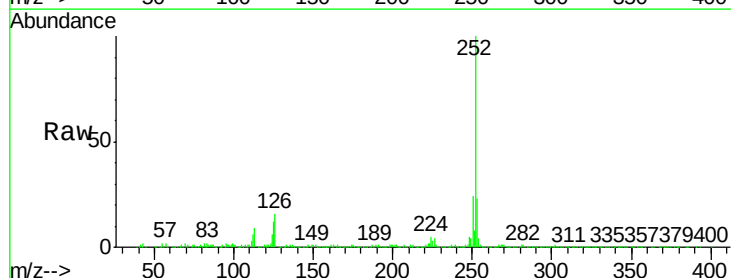
Instrument :  
BNA\_F  
ClientSampleId :

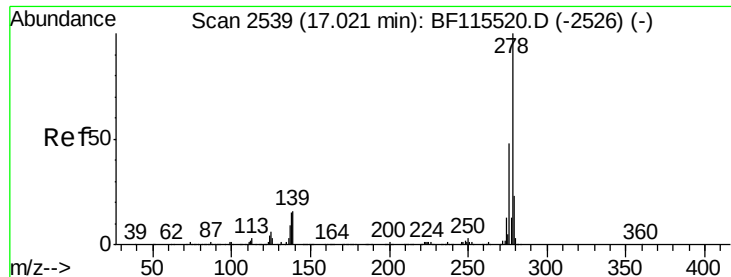
Tot Ion:252 Resp: 1015423  
Ion Ratio Lower Upper  
252 100  
253 23.4 18.6 28.0  
125 11.7 9.0 13.6



#90  
Benzo(a)pyrene  
Concen: 20.432 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BF115580.D  
Acq: 16 Jul 2019 1:52

Tgt Ion:252 Resp: 527442  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.8 26.6  
125 12.5 9.1 13.7





#91

Dibenzo(a,h)anthracene

Concen: 3.444 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.02 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

Instrument :

BNA\_F

ClientSampled :

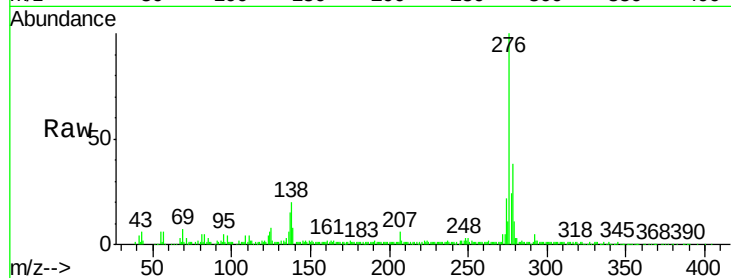
Tot Ion:278 Resp: 78049

Ion Ratio Lower Upper

278 100

139 20.4 13.1 19.7#

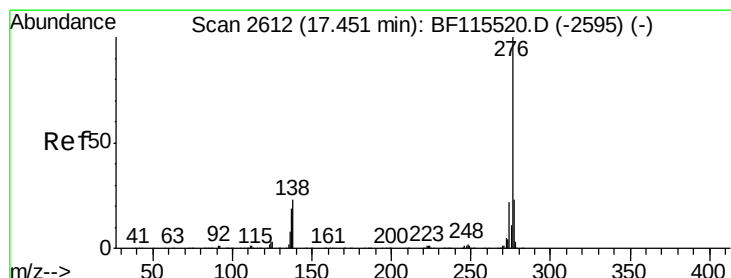
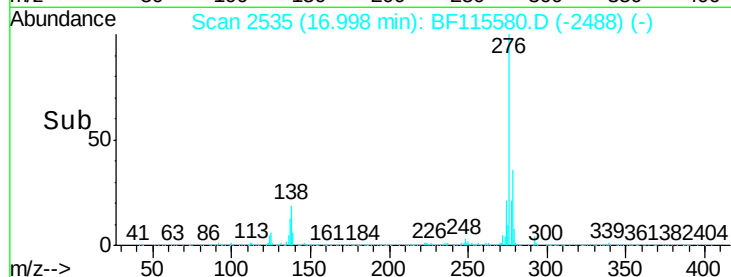
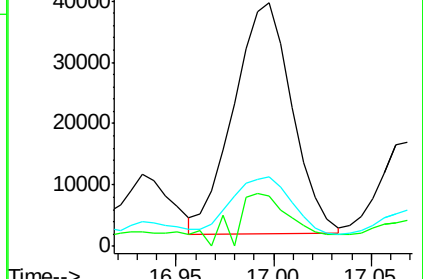
279 28.5 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 11.135 ng

RT: 17.43 min Scan# 2609

Delta R.T. -0.02 min

Lab File: BF115580.D

Acq: 16 Jul 2019 1:52

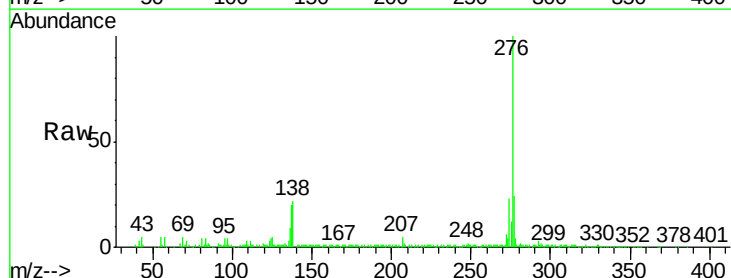
Tgt Ion:276 Resp: 251661

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.4

138 21.7 17.2 25.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

