

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\  
 Data File : BF097343.D  
 Acq On : 4 Aug 2017 3:36  
 Operator : SJ/JU  
 Sample : I4562-10 10X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-080117-D

Quant Time: Aug 04 03:59:25 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 04 01:17:22 2017  
 Response via : Initial Calibration

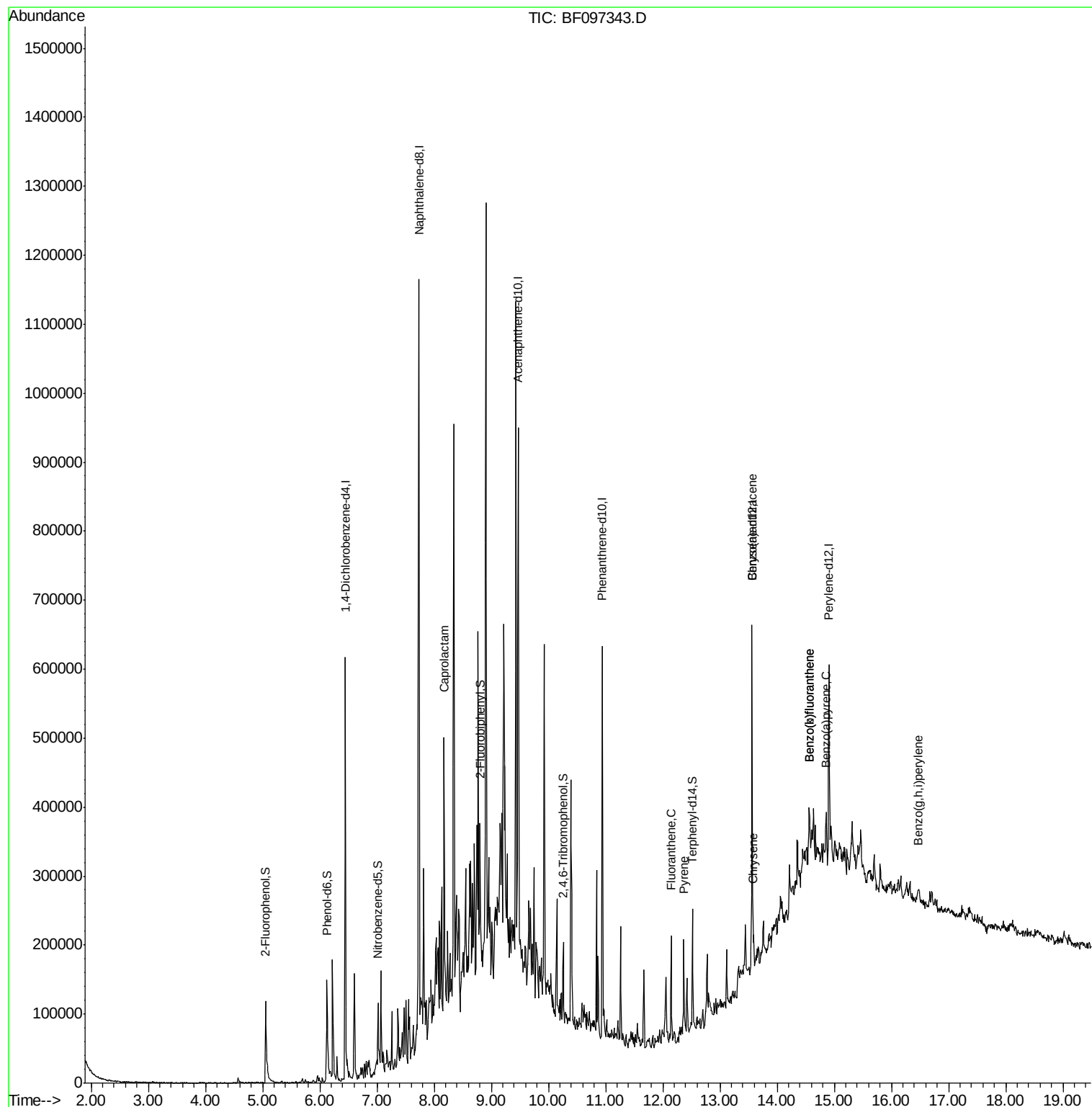
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|-------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.45  | 152  | 90715    | 20.00 | ng    | -0.05      |
| 21) Naphthalene-d8          | 7.73  | 136  | 380790   | 20.00 | ng    | -0.06      |
| 38) Acenaphthene-d10        | 9.47  | 164  | 129320   | 20.00 | ng    | -0.06      |
| 63) Phenanthrene-d10        | 10.94 | 188  | 202517   | 20.00 | ng    | -0.06      |
| 75) Chrysene-d12            | 13.56 | 240  | 156398   | 20.00 | ng    | -0.06      |
| 86) Perylene-d12            | 14.91 | 264  | 107567   | 20.00 | ng    | -0.06      |
| System Monitoring Compounds |       |      |          |       |       |            |
| 5) 2-Fluorophenol           | 5.05  | 112  | 56254    | 9.35  | ng    | -0.05      |
| 7) Phenol-d6                | 6.12  | 99   | 78609    | 11.44 | ng    | -0.05      |
| 23) Nitrobenzene-d5         | 7.02  | 82   | 32651    | 5.03  | ng    | -0.06      |
| 41) 2,4,6-Tribromophenol    | 10.26 | 330  | 8359     | 8.18  | ng    | -0.06      |
| 44) 2-Fluorobiphenyl        | 8.80  | 172  | 70668    | 9.27  | ng    | -0.06      |
| 78) Terphenyl-d14           | 12.52 | 244  | 49331    | 6.43  | ng    | -0.06      |
| Target Compounds            |       |      |          |       |       |            |
| 35) Caprolactam             | 8.17  | 113  | 6550     | 3.930 | ng    | Qvalue # 1 |
| 74) Fluoranthene            | 12.15 | 202  | 55328    | 5.205 | ng    | 98         |
| 77) Pyrene                  | 12.37 | 202  | 51941    | 4.057 | ng    | 98         |
| 80) Benzo(a)anthracene      | 13.56 | 228  | 24117    | 2.383 | ng    | # 90       |
| 82) Chrysene                | 13.59 | 228  | 21747    | 2.201 | ng    | # 94       |
| 87) Benzo(b)fluoranthene    | 14.56 | 252  | 32275    | 4.991 | ng    | # 84       |
| 88) Benzo(k)fluoranthene    | 14.56 | 252  | 32275    | 5.238 | ng    | # 87       |
| 89) Benzo(a)pyrene          | 14.86 | 252  | 16691    | 2.820 | ng    | # 76       |
| 91) Benzo(g,h,i)perylene    | 16.47 | 276  | 10614    | 2.086 | ng    | # 76       |

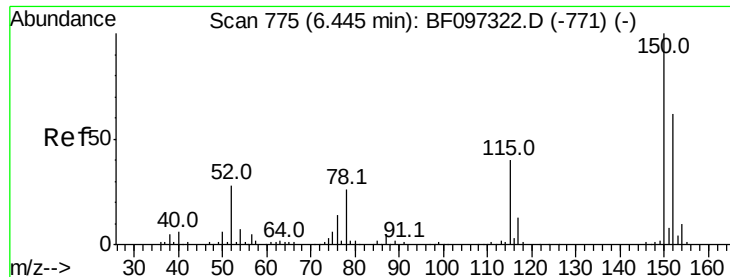
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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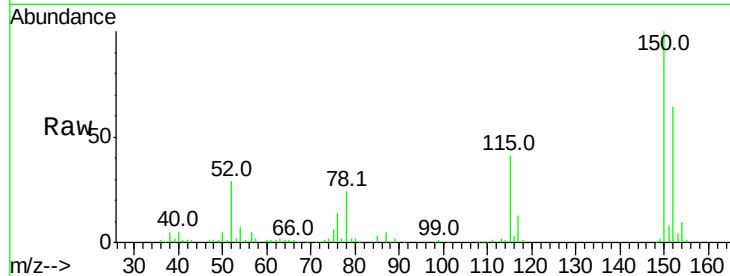


#1

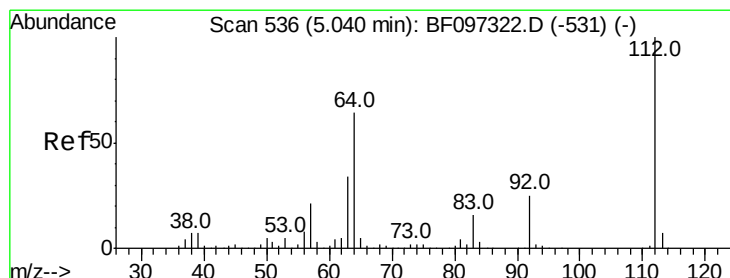
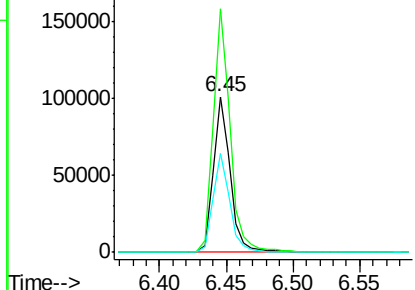
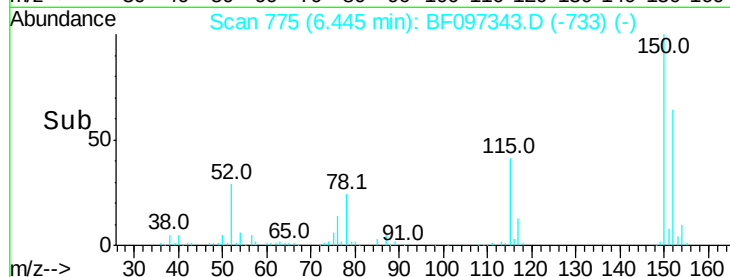
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.45 min Scan# 775  
 Delta R.T. -0.05 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-080117-D

Tot Ion:152 Resp: 90715  
 Ion Ratio Lower Upper  
 152 100  
 150 156.8 126.2 189.2  
 115 64.0 52.2 78.2



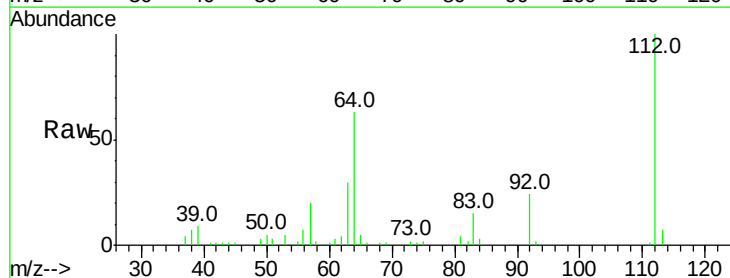
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



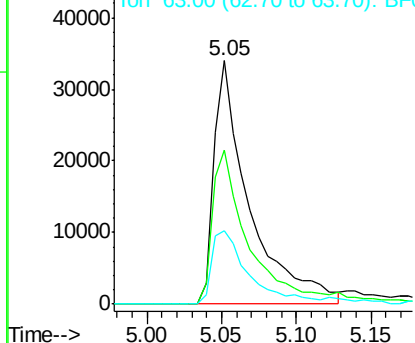
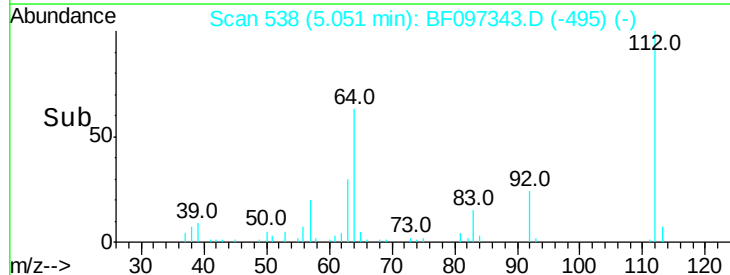
#5

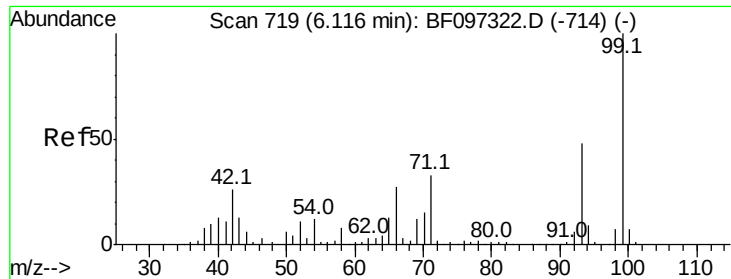
2-Fluorophenol  
 Concen: 9.348 ng  
 RT: 5.05 min Scan# 538  
 Delta R.T. -0.05 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

Tgt Ion:112 Resp: 56254  
 Ion Ratio Lower Upper  
 112 100  
 64 63.3 46.0 69.0  
 63 30.4 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 11.443 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

JC-02-080117-D

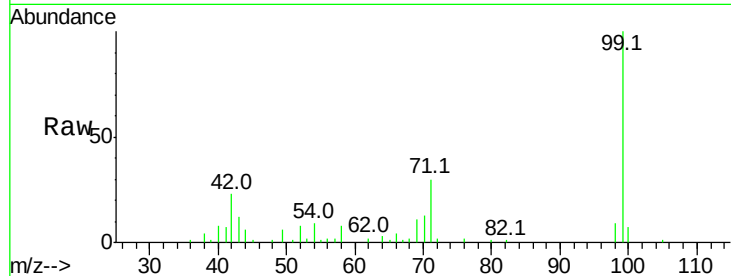
Tot Ion: 99 Resp: 78609

Ion Ratio Lower Upper

99 100

42 23.1 13.5 20.3#

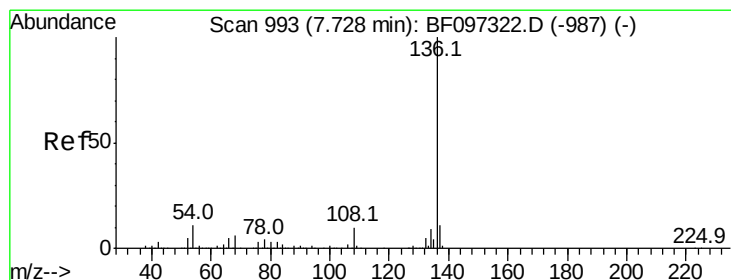
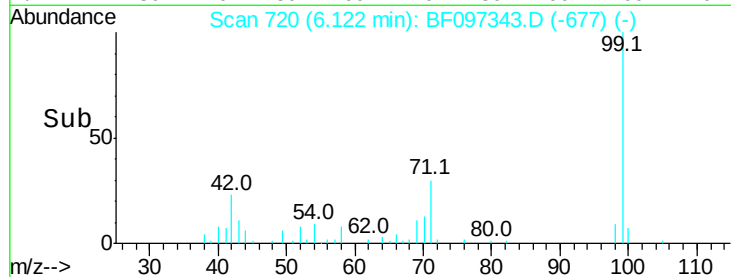
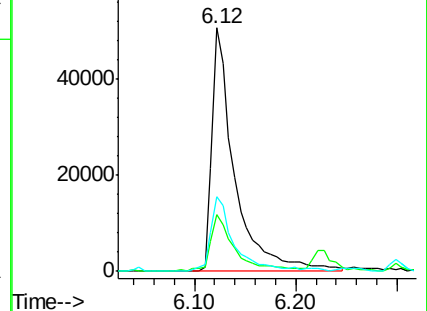
71 30.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.73 min Scan# 993

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

Tgt Ion: 136 Resp: 380790

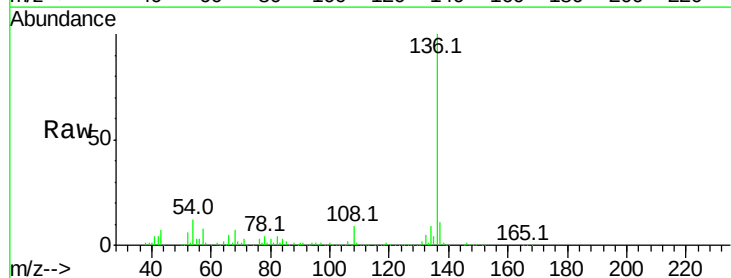
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 11.8 4.9 7.3#

68 6.5 4.1 6.1#

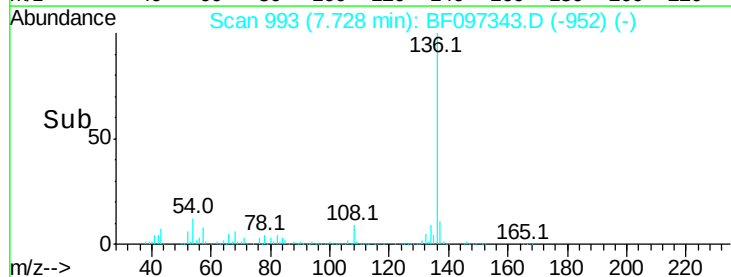
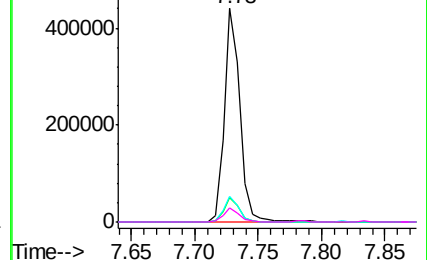


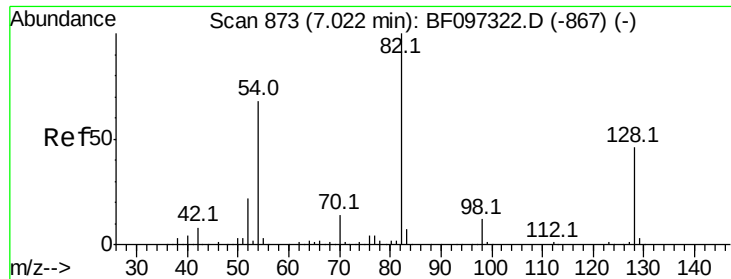
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

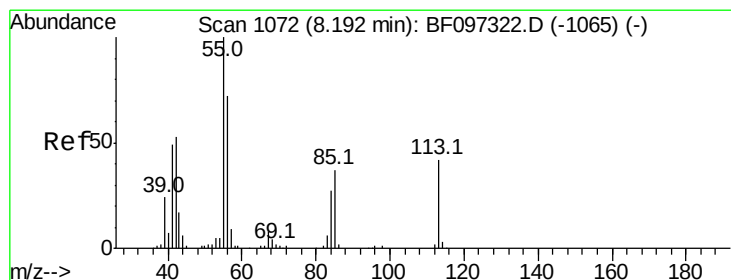
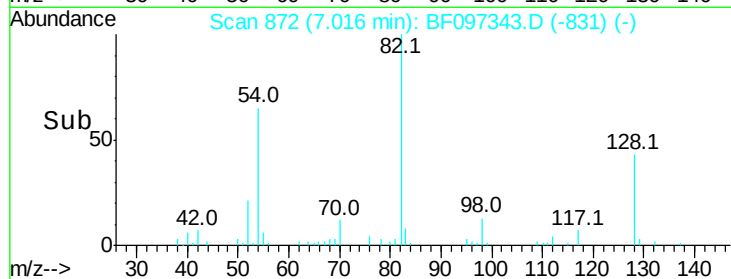
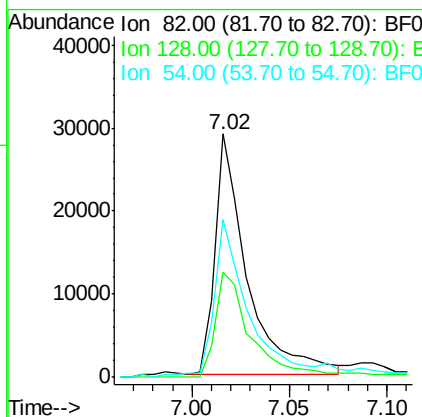
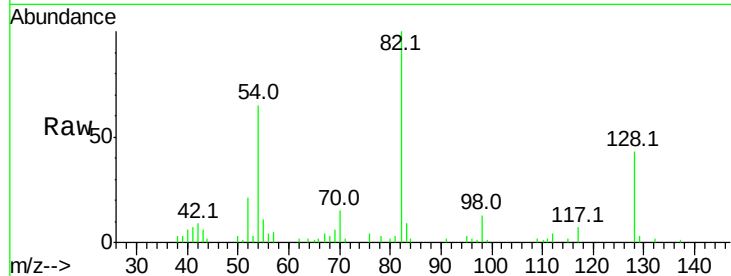




#23  
 Nitrobenzene-d5  
 Concen: 5.030 ng  
 RT: 7.02 min Scan# 872  
 Delta R.T. -0.06 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

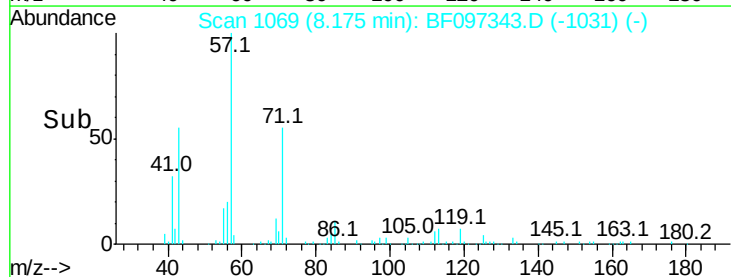
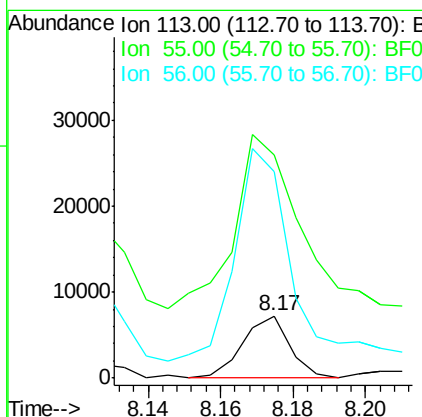
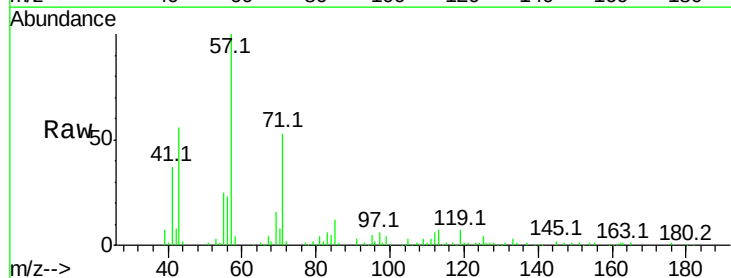
Instrument :  
 BNA\_F  
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 JC-02-080117-D

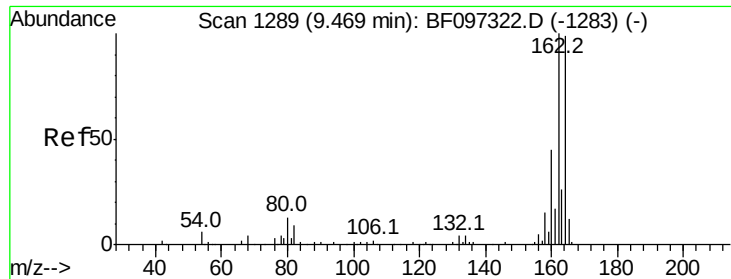
| Tot Ion   | 82    | Resp  | 32651 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 43.5  | 34.0  | 51.0  |
| 54        | 64.6  | 42.2  | 63.2# |



#35  
 Caprolactam  
 Concen: 3.930 ng  
 RT: 8.17 min Scan# 1069  
 Delta R.T. -0.08 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

| Tgt Ion   | 113   | Resp  | 6550   |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 55        | 360.5 | 150.2 | 190.2# |
| 56        | 333.1 | 107.8 | 147.8# |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.47 min Scan# 1289

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

JC-02-080117-D

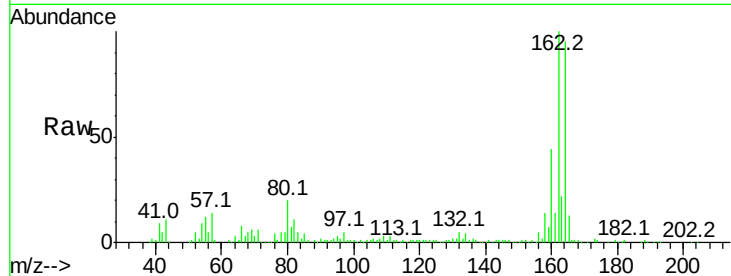
Tot Ion:164 Resp: 129320

Ion Ratio Lower Upper

164 100

162 105.1 82.6 123.8

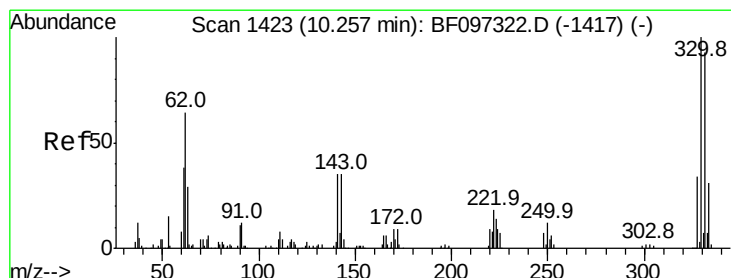
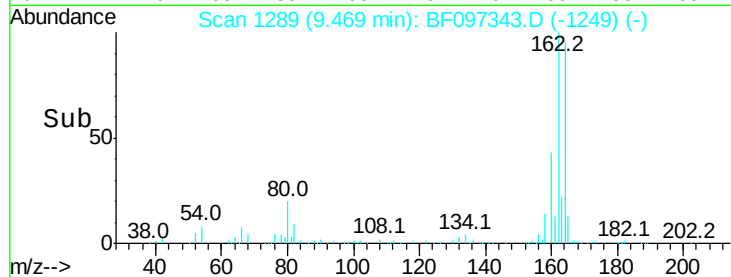
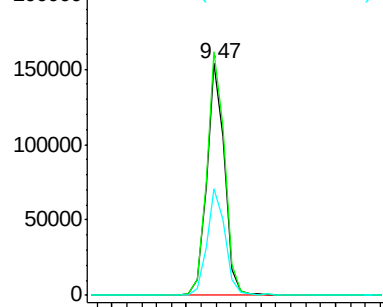
160 45.9 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 8.181 ng

RT: 10.26 min Scan# 1423

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

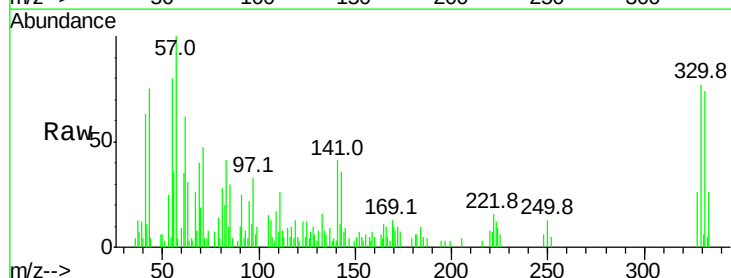
Tgt Ion:330 Resp: 8359

Ion Ratio Lower Upper

330 100

332 96.6 76.6 115.0

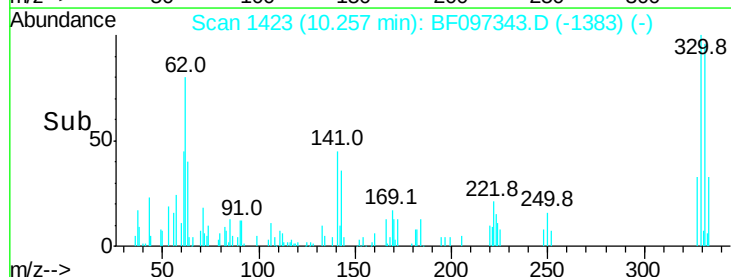
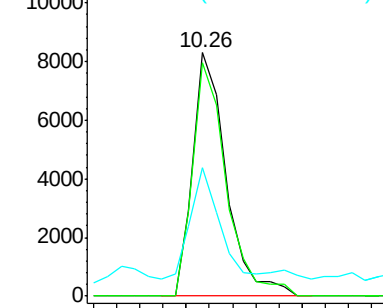
141 39.2 31.4 47.2

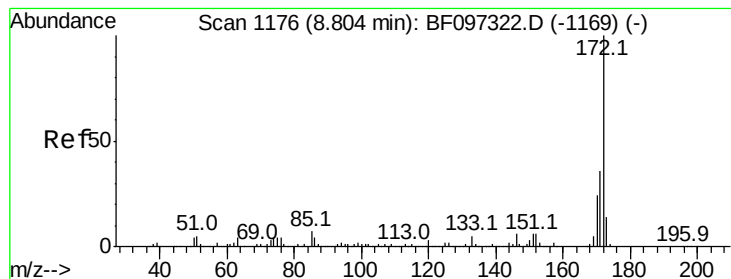


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

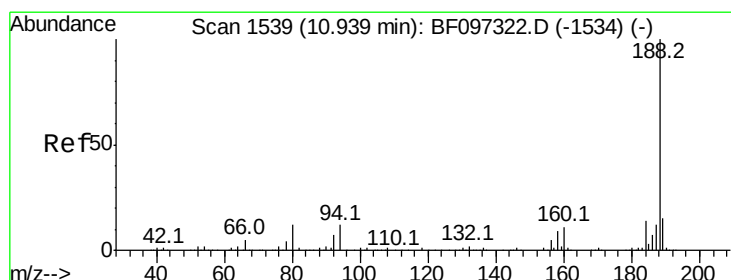
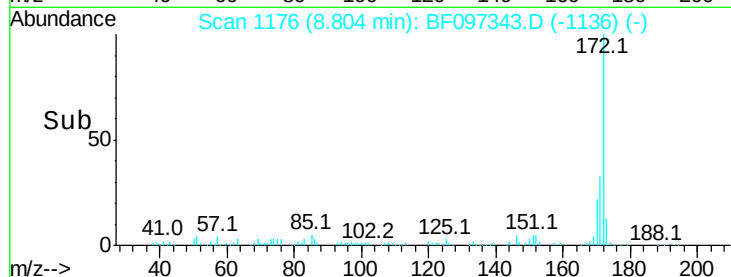
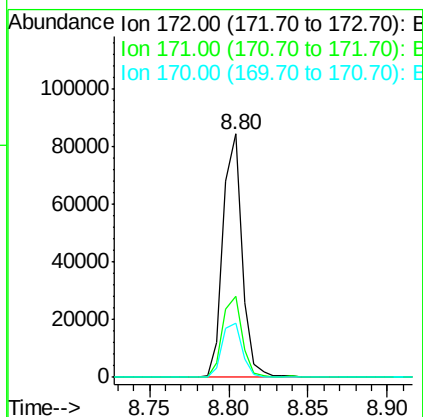
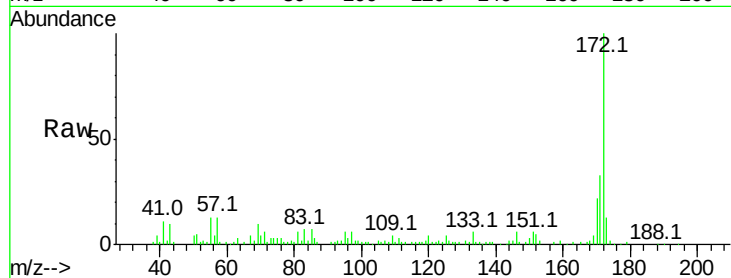




#44  
 2-Fluorobiphenyl  
 Concen: 9.274 ng  
 RT: 8.80 min Scan# 1176  
 Delta R.T. -0.06 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

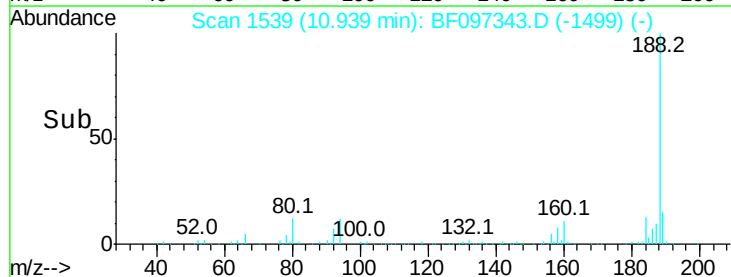
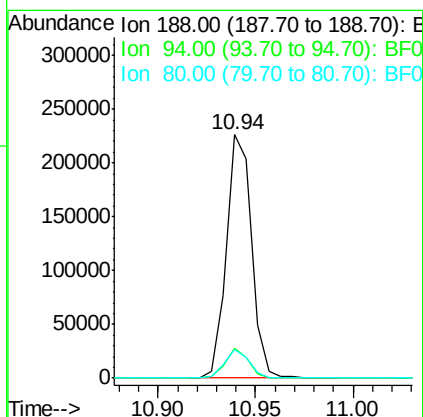
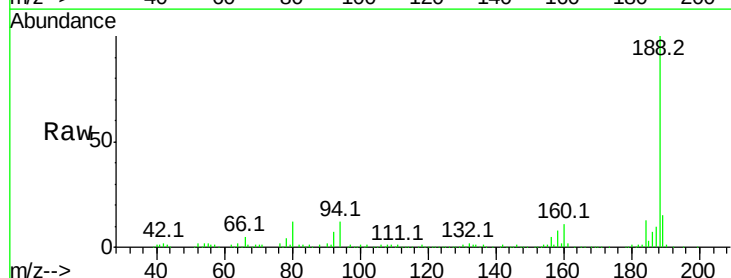
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 JC-02-080117-D

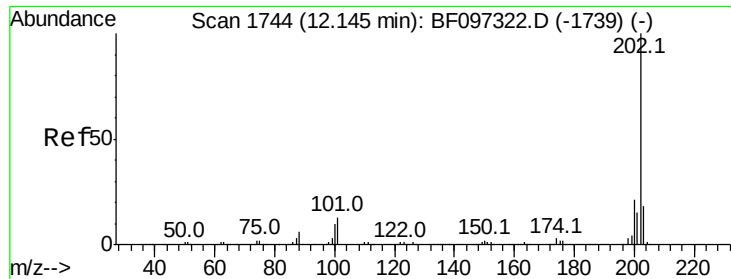
Tot Ion:172 Resp: 70668  
 Ion Ratio Lower Upper  
 172 100  
 171 33.5 29.6 44.4  
 170 22.2 19.8 29.8



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 10.94 min Scan# 1539  
 Delta R.T. -0.06 min  
 Lab File: BF097343.D  
 Acq: 4 Aug 2017 3:36

Tgt Ion:188 Resp: 202517  
 Ion Ratio Lower Upper  
 188 100  
 94 12.1 9.4 14.2  
 80 11.8 10.2 15.2

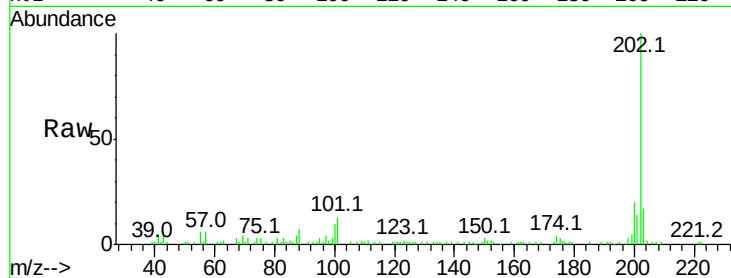




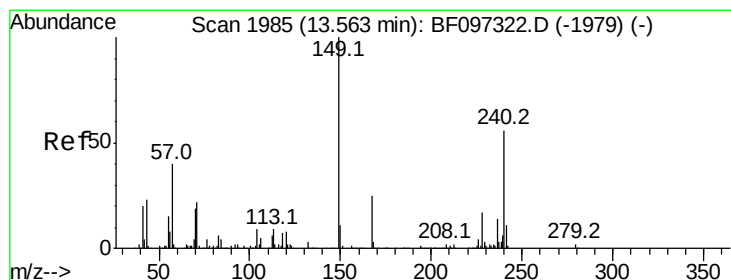
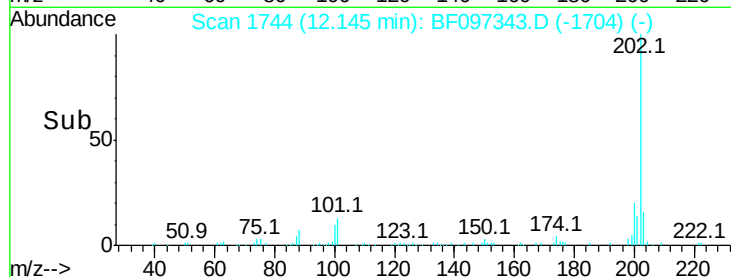
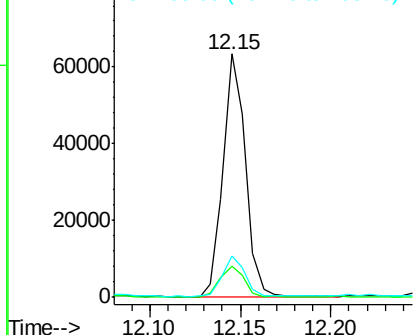
#74  
Fluoranthene  
Concen: 5.205 ng  
RT: 12.15 min Scan# 1744  
Delta R.T. -0.06 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-080117-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 0.0   | 33.2  |
| 203     | 17.0  | 0.0   | 38.1  |

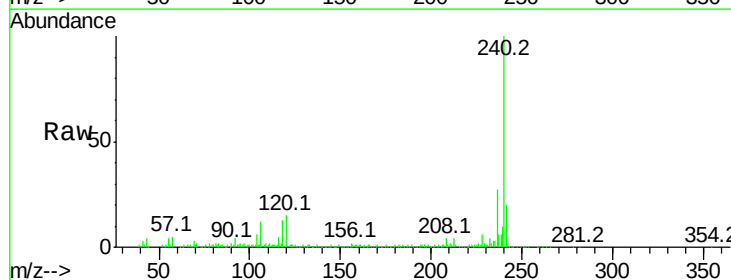


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

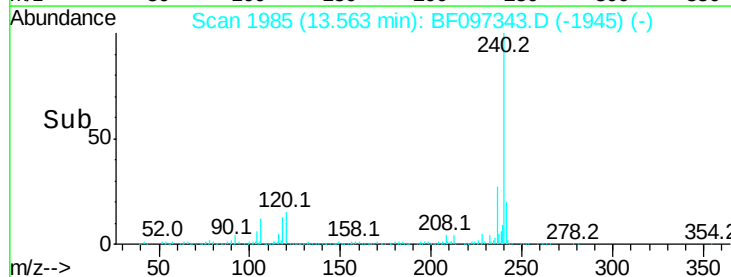
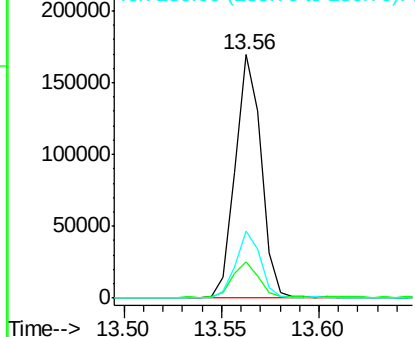


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.56 min Scan# 1985  
Delta R.T. -0.06 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

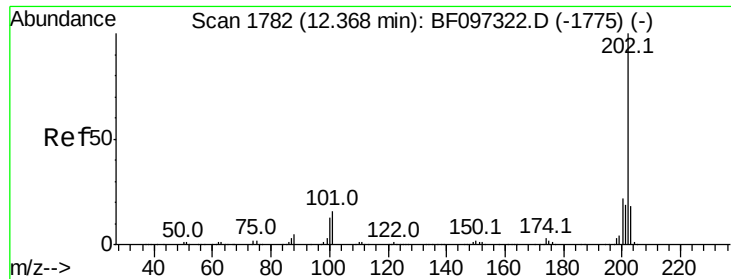
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.0  | 5.8   | 8.8#  |
| 236     | 27.5  | 20.5  | 30.7  |



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







#77

Pvrene

Concen: 4.057 ng

RT: 12.37 min Scan# 1782

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

JC-02-080117-D

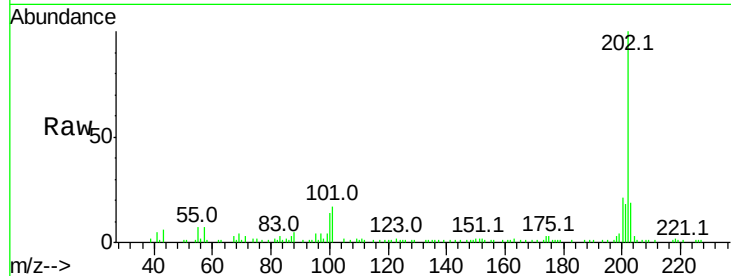
Tot Ion:202 Resp: 51941

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

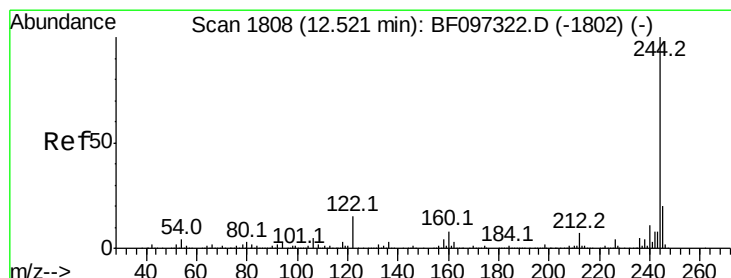
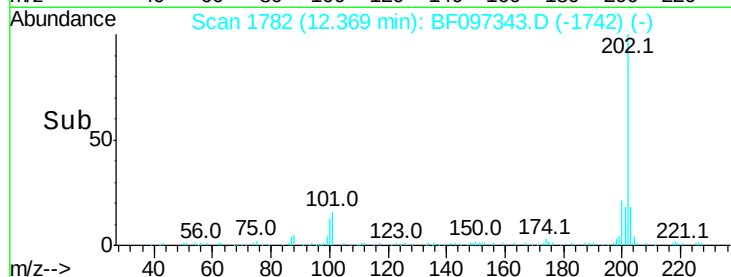
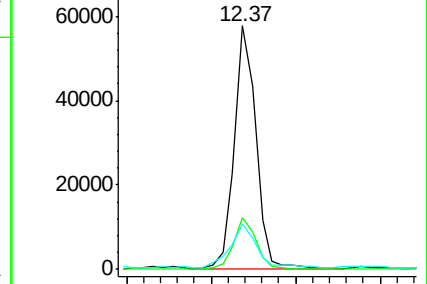
203 18.7 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 6.431 ng

RT: 12.52 min Scan# 1808

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

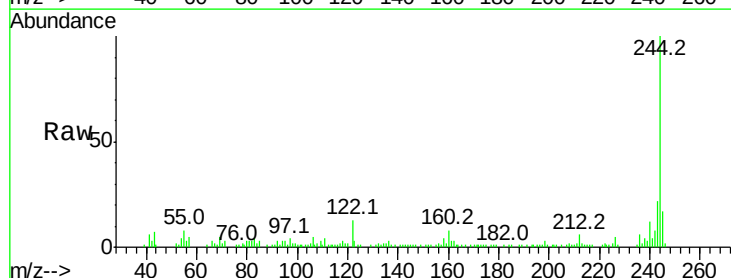
Tgt Ion:244 Resp: 49331

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

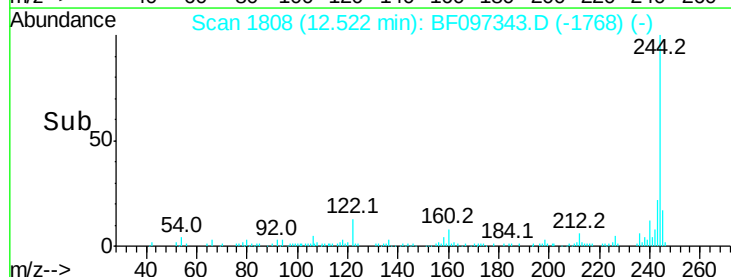
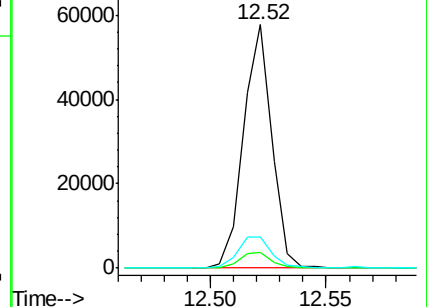
122 12.7 10.3 15.5

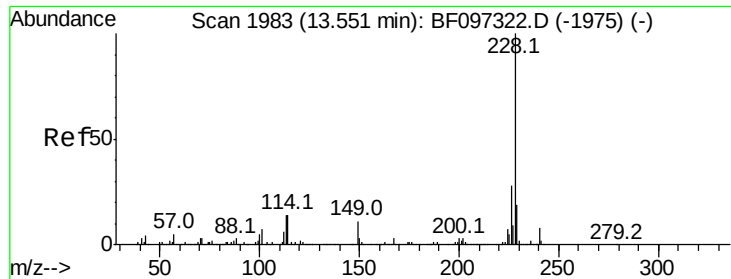


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.383 ng

RT: 13.56 min Scan# 1984

Delta R.T. -0.06 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

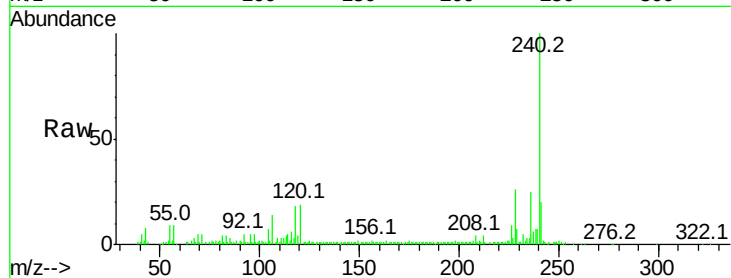
Instrument :

BNA\_F

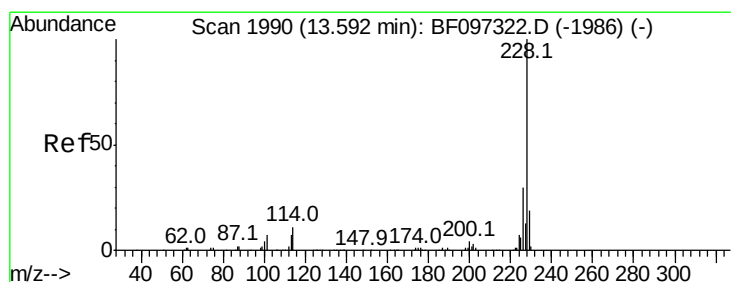
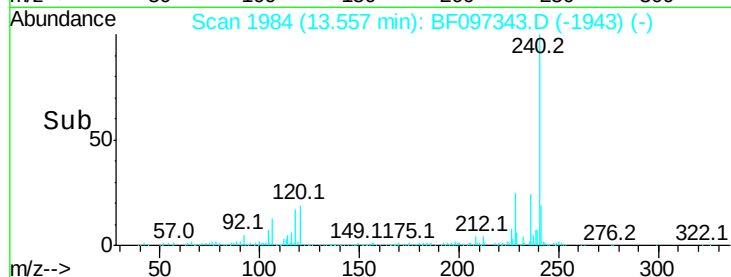
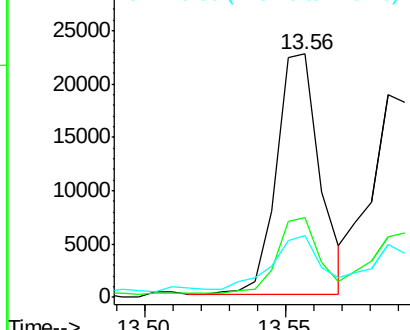
ClientSampleId :

JC-02-080117-D

|             |       |            |
|-------------|-------|------------|
| Tot Ion:228 | Resp: | 24117      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 32.8  | 22.6 33.8  |
| 229         | 25.6  | 16.3 24.5# |



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



#82

Chrysene

Concen: 2.201 ng

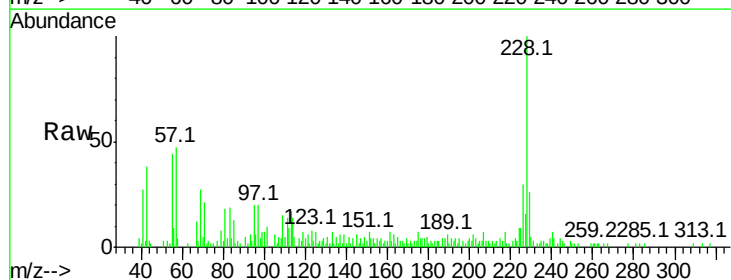
RT: 13.59 min Scan# 1989

Delta R.T. -0.07 min

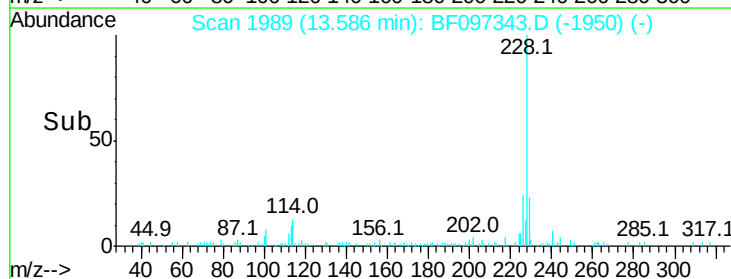
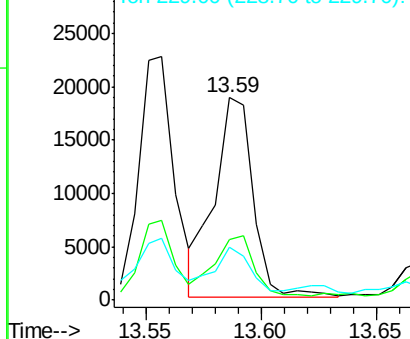
Lab File: BF097343.D

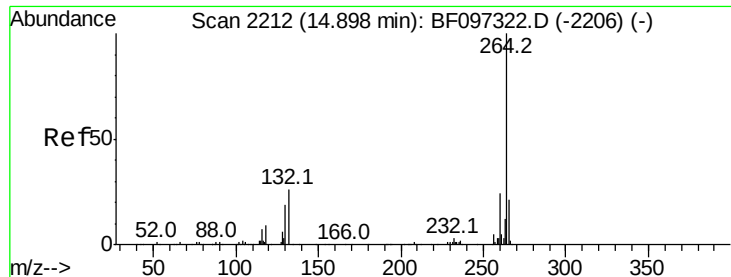
Acq: 4 Aug 2017 3:36

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:228 | Resp: | 21747      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 30.2  | 24.9 37.3  |
| 229         | 25.9  | 15.8 23.6# |



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

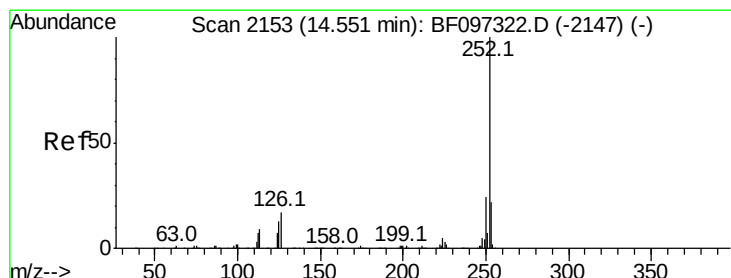
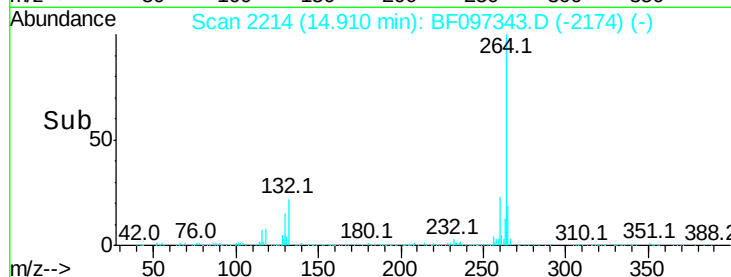
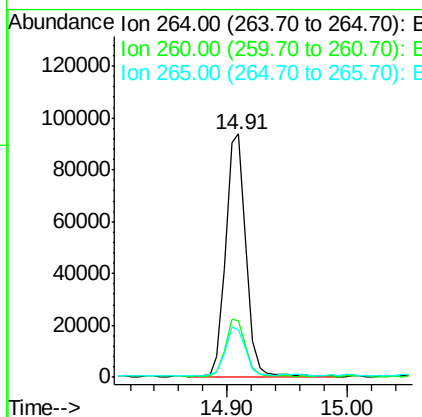
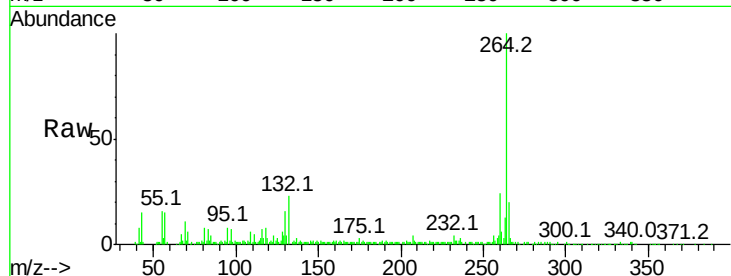




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 14.91 min Scan# 2214  
Delta R.T. -0.06 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

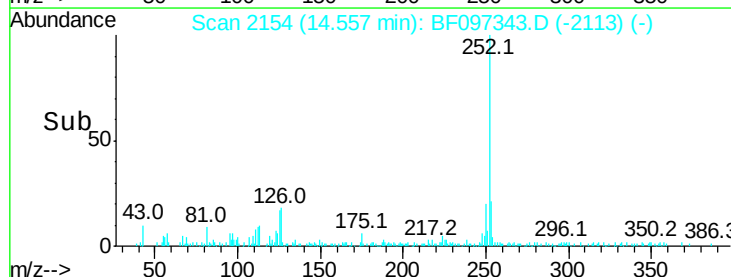
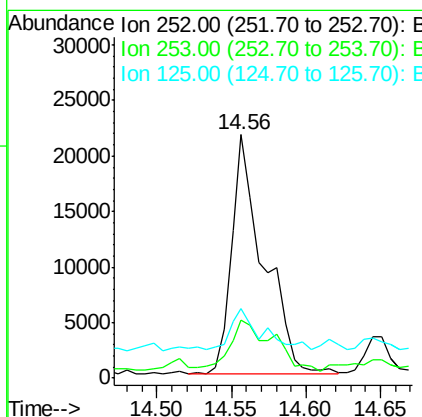
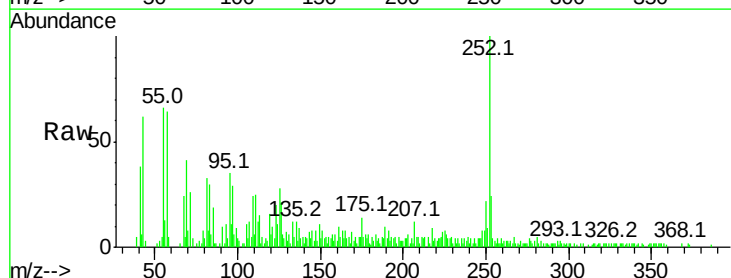
Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-080117-D

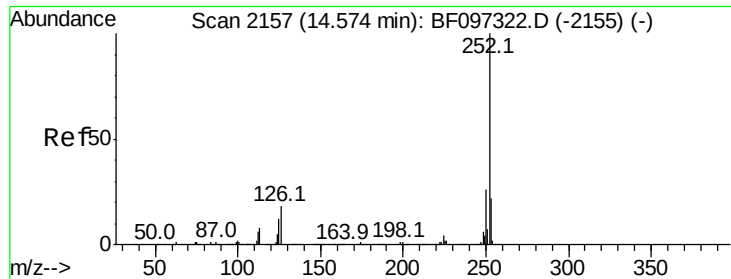
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.5  | 29.3  |
| 265     | 19.6  | 17.2  | 25.8  |



#87  
Benzo(b)fluoranthene  
Concen: 4.991 ng  
RT: 14.56 min Scan# 2154  
Delta R.T. -0.06 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.1  | 27.1  |
| 125     | 28.4  | 9.8   | 14.8  |

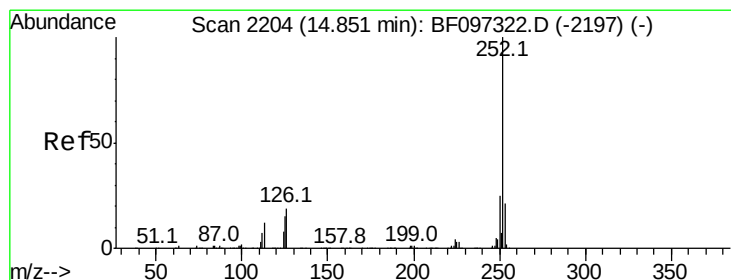
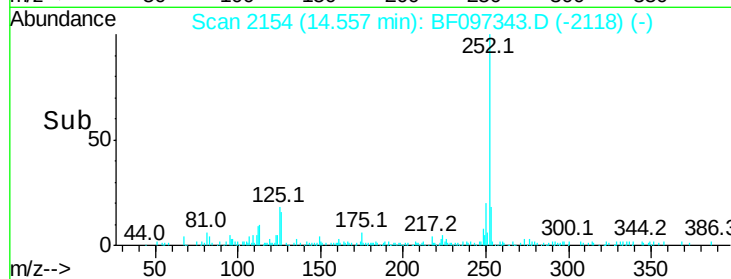
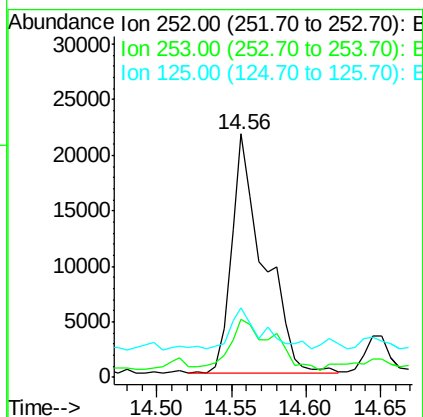
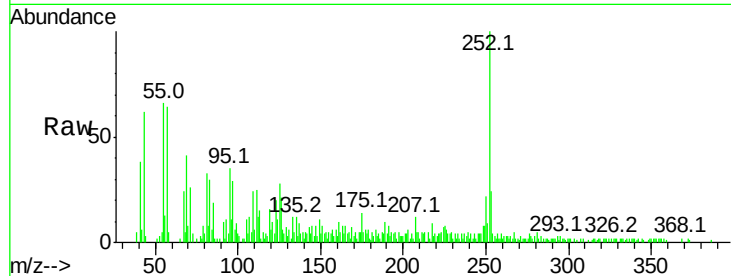




#88  
Benzo(k)fluoranthene  
Concen: 5.238 ng  
RT: 14.56 min Scan# 2154  
Delta R.T. -0.09 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

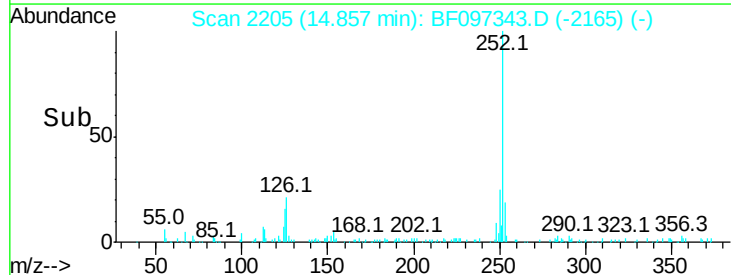
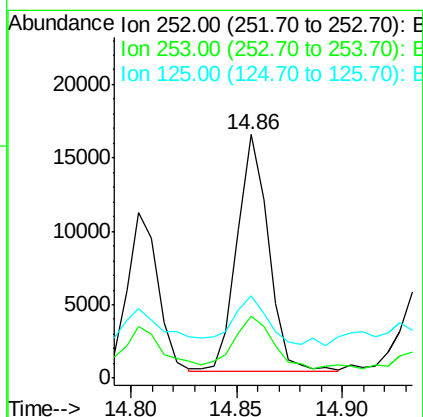
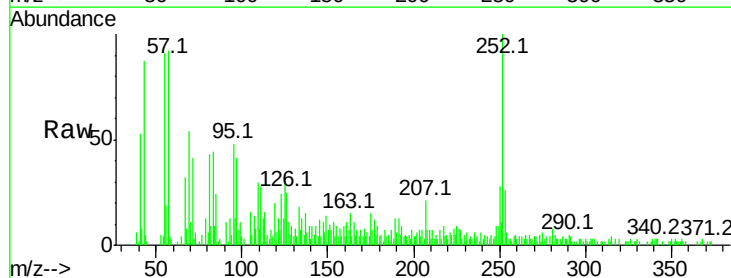
Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-080117-D

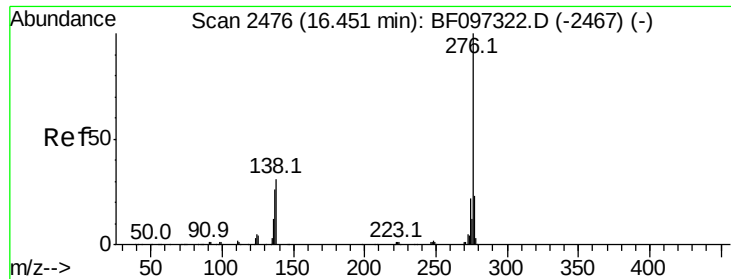
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.4  | 27.6  |
| 125     | 28.4  | 13.1  | 19.7  |



#89  
Benzo(a)pyrene  
Concen: 2.820 ng  
RT: 14.86 min Scan# 2205  
Delta R.T. -0.06 min  
Lab File: BF097343.D  
Acq: 4 Aug 2017 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.5  | 26.3  |
| 125     | 33.6  | 11.0  | 16.4  |





#91

Benzo(a,h,i)perylene

Concen: 2.086 ng

RT: 16.47 min Scan# 2479

Delta R.T. -0.10 min

Lab File: BF097343.D

Acq: 4 Aug 2017 3:36

Instrument :

BNA\_F

ClientSampleId :

JC-02-080117-D

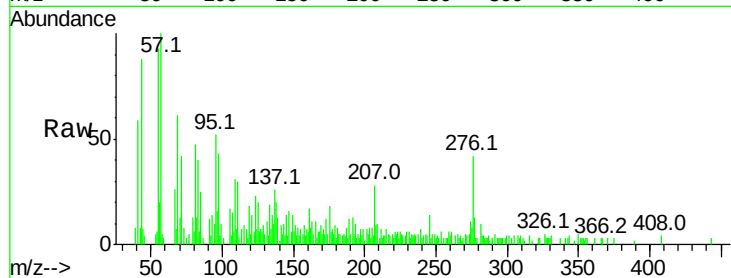
Tot Ion:276 Resp: 10614

Ion Ratio Lower Upper

276 100

277 32.0 18.6 28.0#

138 47.7 25.4 38.0#



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

