

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\  
 Data File : BF104540.D  
 Acq On : 16 Apr 2018 18:41  
 Operator : JU/SJ  
 Sample : J2394-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-1-2-DENSE-GRADE-AGG-RCA

Quant Time: Apr 17 00:55:30 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 16 12:15:25 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 141135   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 583032   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 262182   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.34 | 188  | 436934   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.99 | 240  | 264807   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.45 | 264  | 299788   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.42  | 112 | 166272  | 18.01 | ng | 0.00 |
| 7) Phenol-d6             | 6.45  | 99  | 723757  | 63.82 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.37  | 82  | 705549  | 79.02 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 2745    | 1.01  | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.17  | 172 | 1233555 | 74.33 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.93 | 244 | 950396  | 81.82 | ng | 0.00 |

## Target Compounds

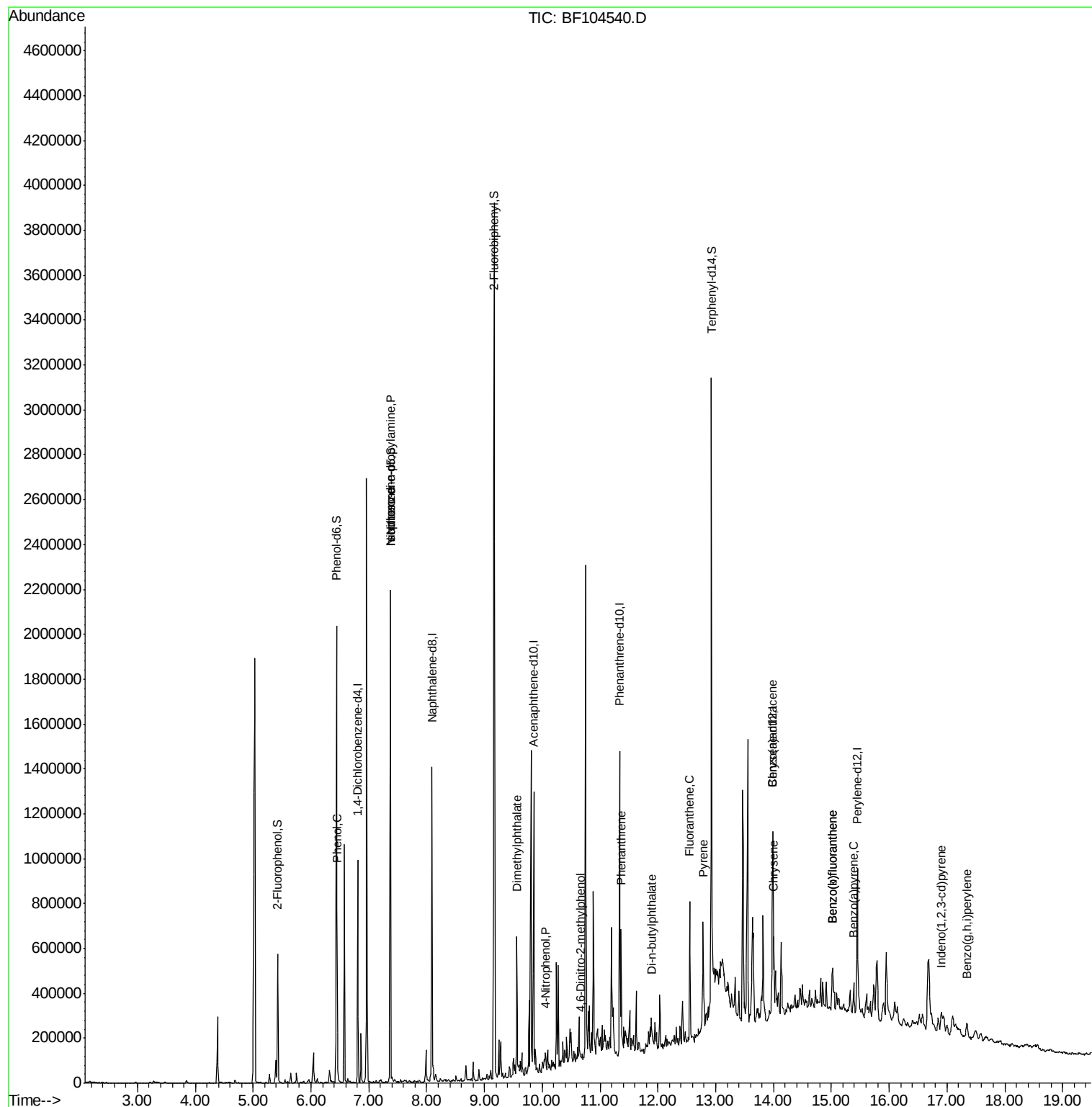
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.36  | 77  | 1509   | Below Cal | # | 66     |
| 10) Phenol                     | 6.46  | 94  | 46908  | 3.898 ng  |   | 95     |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 96824  | 13.065 ng | # | 74     |
| 25) Isophorone                 | 7.37  | 82  | 702708 | 37.217 ng | # | 64     |
| 49) Dimethylphthalate          | 9.56  | 163 | 216140 | 10.454 ng |   | 99     |
| 55) 4-Nitrophenol              | 10.05 | 139 | 7487   | 2.128 ng  | # | 19     |
| 64) 4,6-Dinitro-2-methylphenol | 10.67 | 198 | 247    | 7.445 ng  | # | 1      |
| 70) Phenanthrene               | 11.36 | 178 | 196001 | 8.055 ng  |   | 99     |
| 73) Di-n-butylphthalate        | 11.90 | 149 | 60462  | 2.048 ng  |   | 98     |
| 74) Fluoranthene               | 12.55 | 202 | 197128 | 7.754 ng  |   | 99     |
| 76) Benzidine                  | 12.93 | 184 | 12919  | Below Cal |   | 100    |
| 77) Pylene                     | 12.78 | 202 | 177948 | 9.066 ng  |   | 99     |
| 80) Benzo(a)anthracene         | 13.97 | 228 | 71495  | 4.519 ng  |   | 99     |
| 82) Chrysene                   | 14.01 | 228 | 68914  | 4.241 ng  |   | 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.90 | 276 | 49407  | 3.579 ng  |   | 94     |
| 87) Benzo(b)fluoranthene       | 15.02 | 252 | 119583 | 6.316 ng  | # | 87     |
| 88) Benzo(k)fluoranthene       | 15.02 | 252 | 119583 | 6.690 ng  | # | 90     |
| 89) Benzo(a)pyrene             | 15.39 | 252 | 67566  | 3.988 ng  | # | 94     |
| 91) Benzo(a,h,i)perylene       | 17.34 | 276 | 48933  | 3.630 ng  |   | 97     |

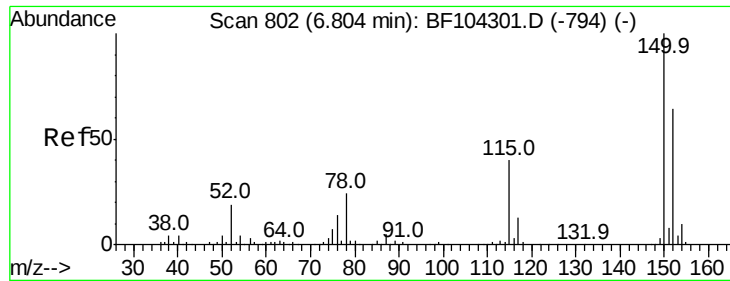
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\  
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1-1-2-DENSE-GRADE-AGG-RCA

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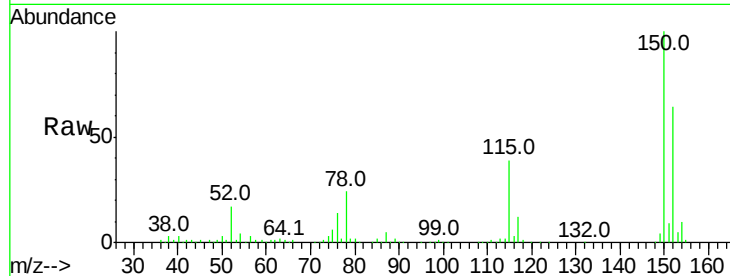


#1

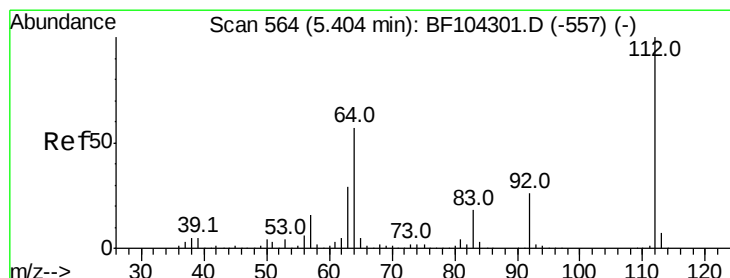
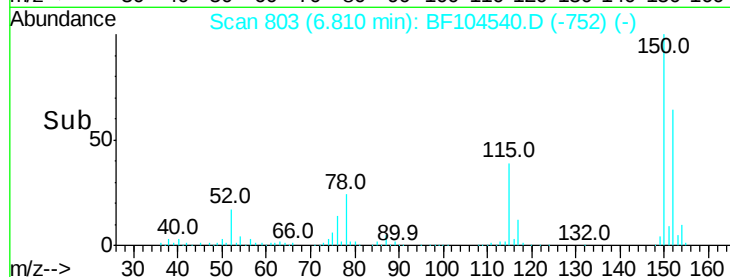
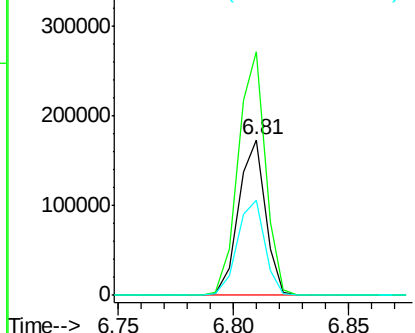
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.00 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Instrument :  
BNA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

Tot Ion:152 Resp: 141135  
Ion Ratio Lower Upper  
152 100  
150 156.7 124.6 186.8  
115 61.3 50.1 75.1



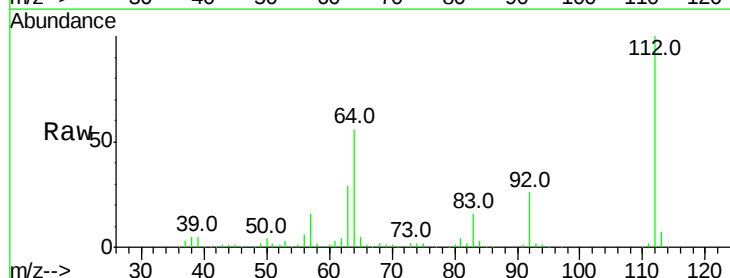
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



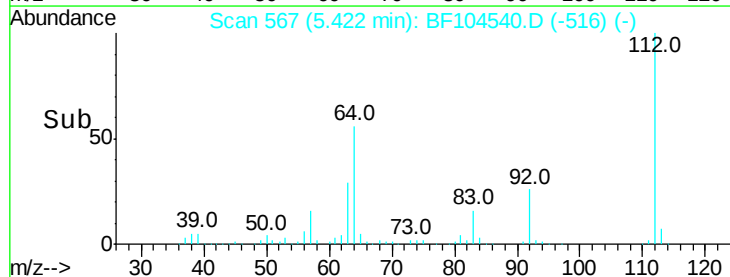
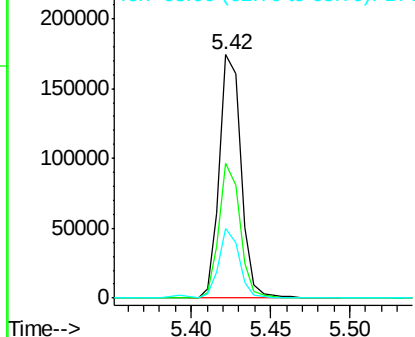
#5

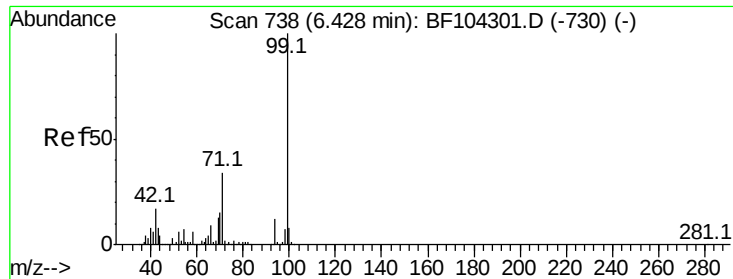
2-Fluorophenol  
Concen: 18.014 ng  
RT: 5.42 min Scan# 567  
Delta R.T. -0.00 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Tgt Ion:112 Resp: 166272  
Ion Ratio Lower Upper  
112 100  
64 55.5 47.9 71.9  
63 28.7 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 63.818 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

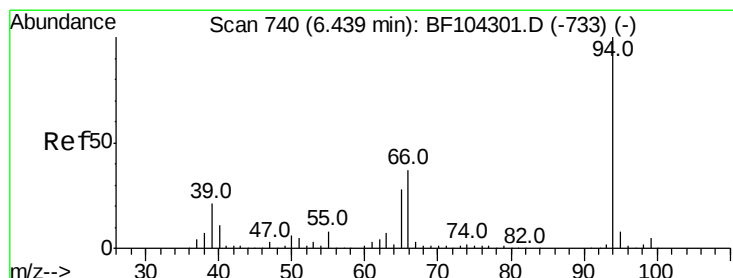
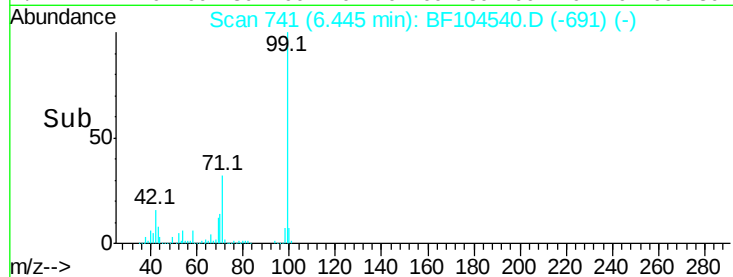
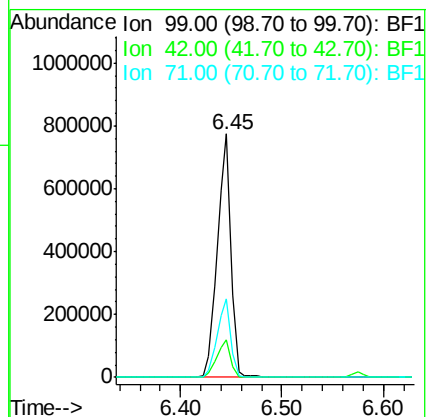
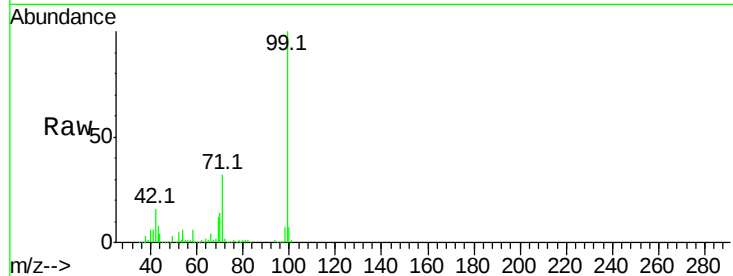
Tot Ion: 99 Resp: 723757

Ion Ratio Lower Upper

99 100

42 15.5 14.5 21.7

71 32.0 25.4 38.0



#10

Phenol

Concen: 3.898 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

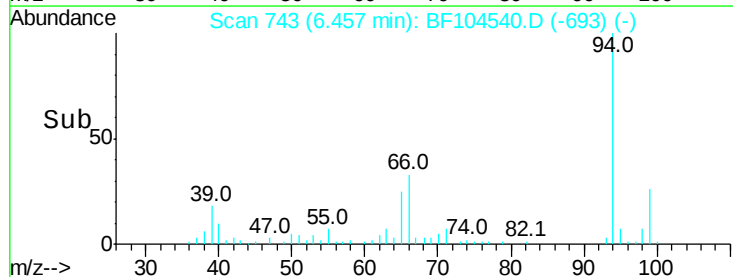
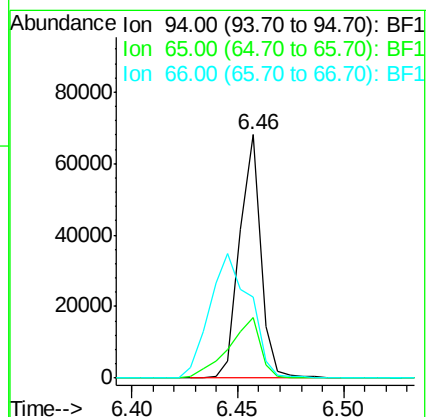
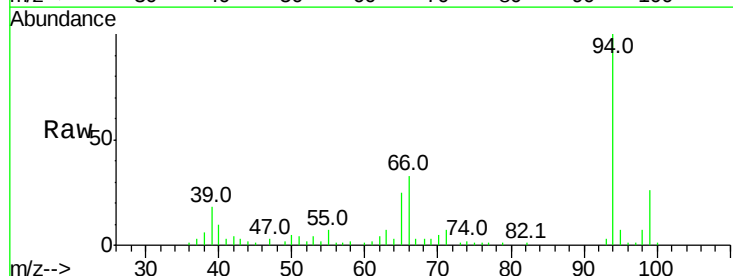
Tgt Ion: 94 Resp: 46908

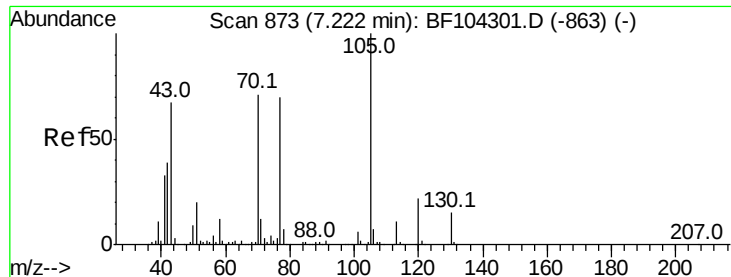
Ion Ratio Lower Upper

94 100

65 25.1 7.9 47.9

66 33.4 16.2 56.2

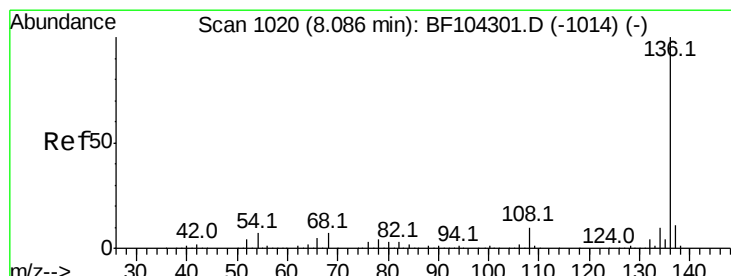
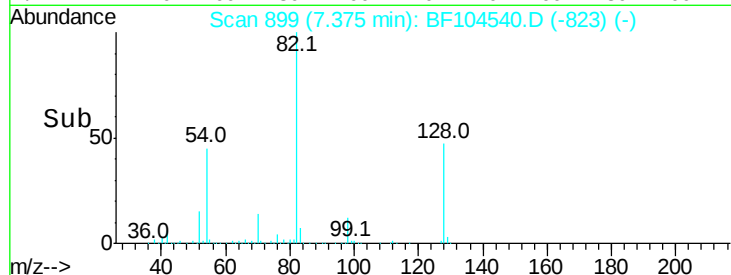
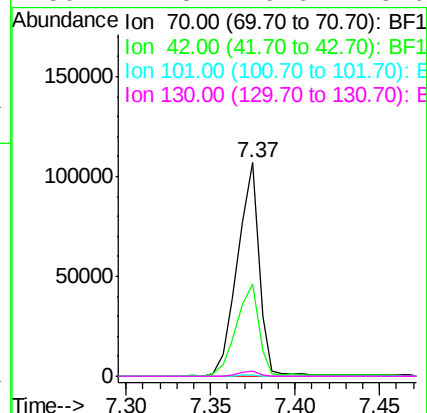
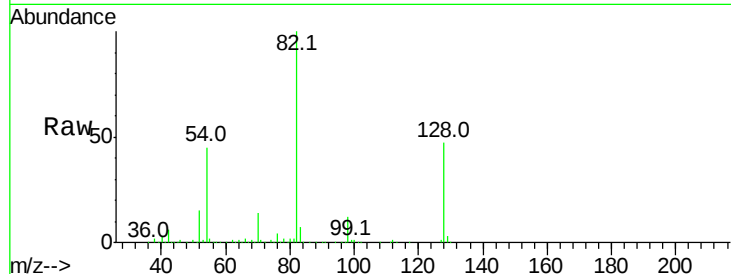




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.065 ng  
RT: 7.37 min Scan# 899  
Delta R.T. 0.15 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

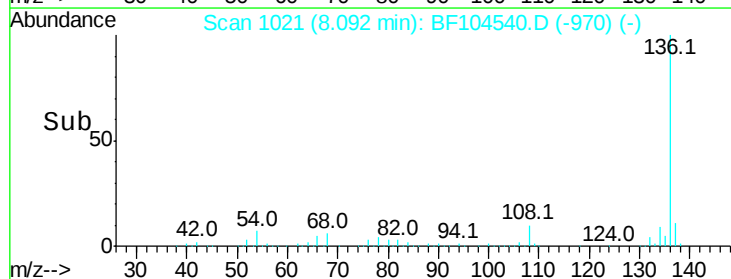
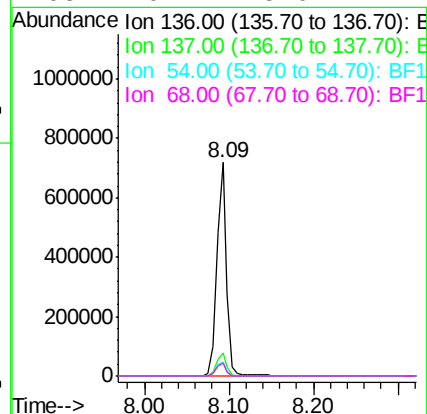
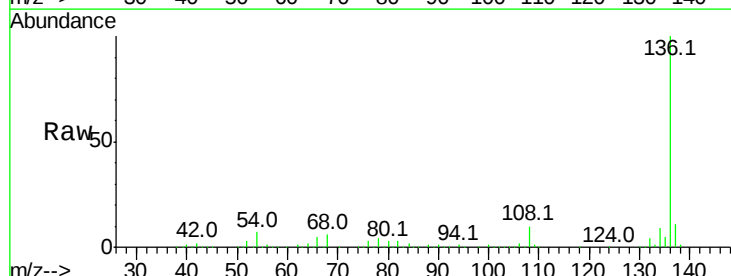
Instrument :  
BNA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

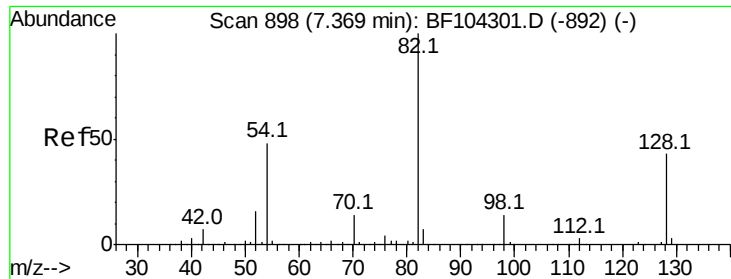
Tot Ion: 70 Resp: 96824  
Ion Ratio Lower Upper  
70 100  
42 42.9 47.5 71.3#  
101 0.6 7.4 11.2#  
130 2.3 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.00 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Tgt Ion: 136 Resp: 583032  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.9 13.3  
54 6.7 6.6 9.8  
68 6.1 5.0 7.4

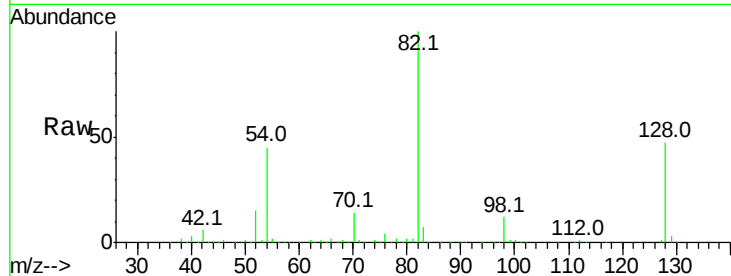




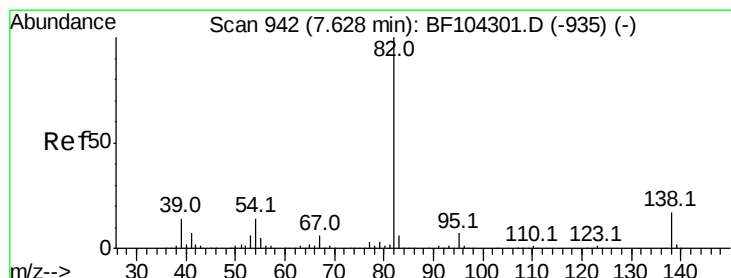
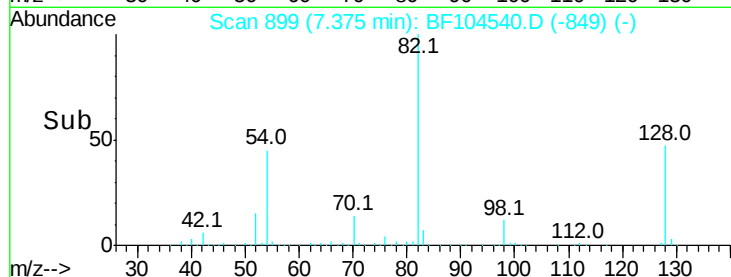
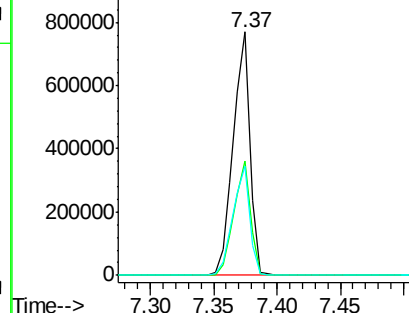
#23  
 Nitrobenzene-d5  
 Concen: 79.020 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.01 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-1-2-DENSE-GRADE-AGG-RCA

Tot Ion: 82 Resp: 705549  
 Ion Ratio Lower Upper  
 82 100  
 128 47.2 36.1 54.1  
 54 44.9 41.4 62.2

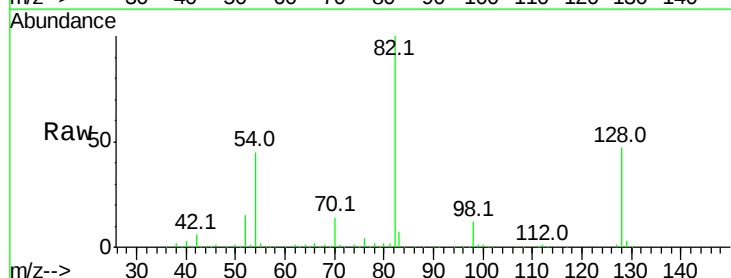


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

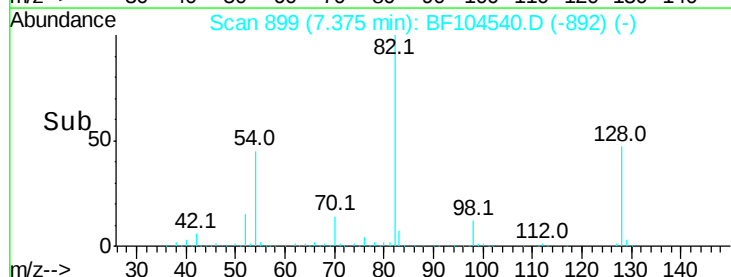
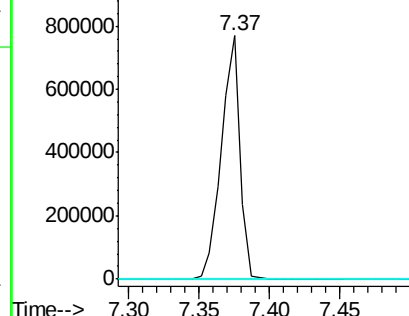


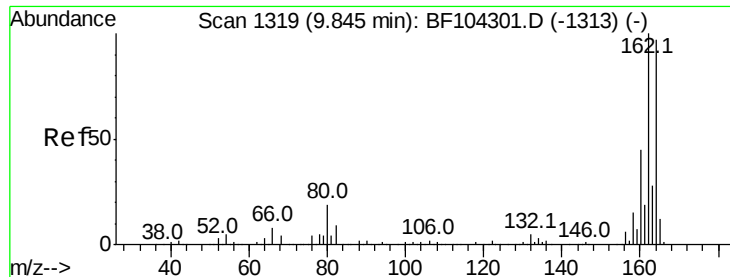
#25  
 Isophorone  
 Concen: 37.217 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.26 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

Tgt Ion: 82 Resp: 702708  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 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

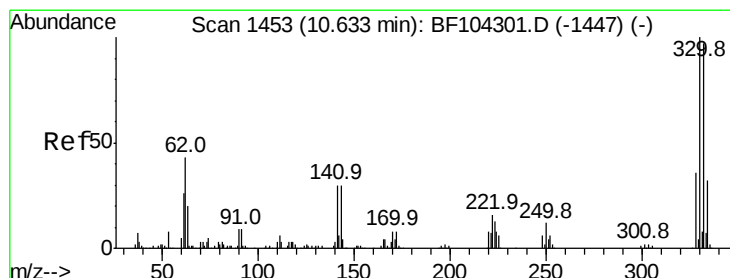
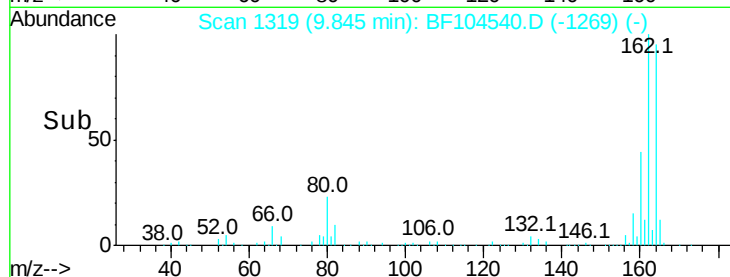
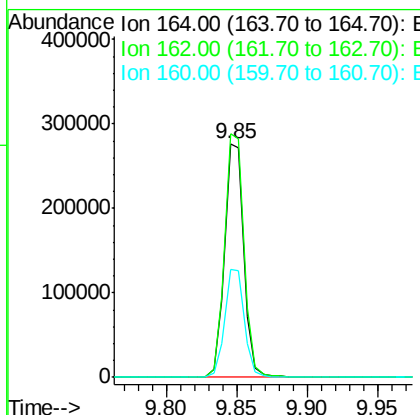
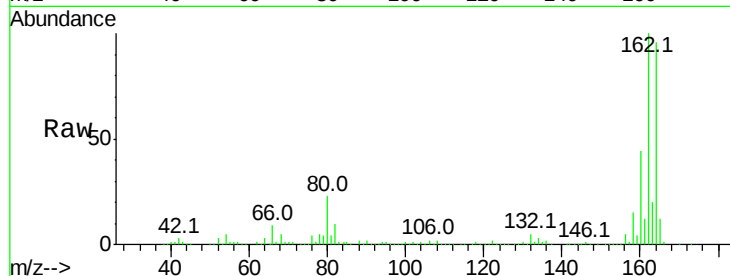




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.01 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

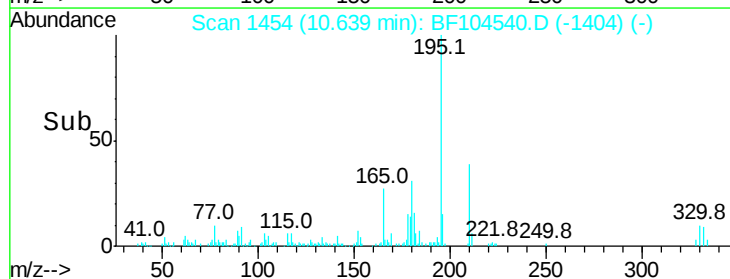
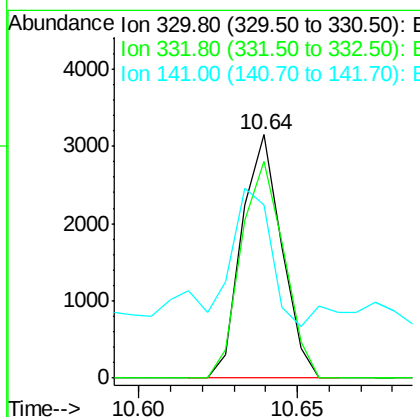
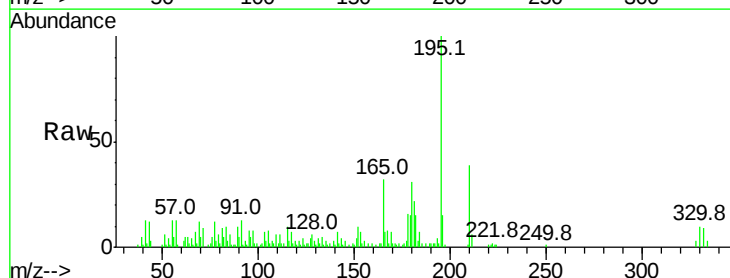
Instrument :  
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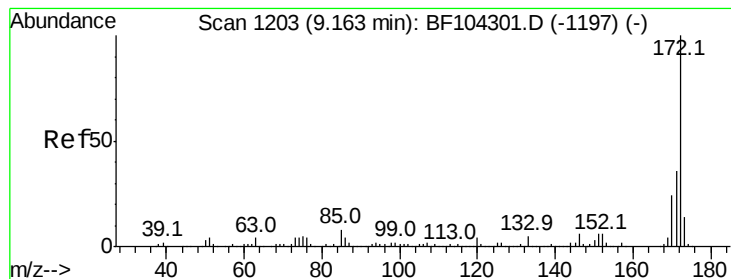
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.2 | 86.1  | 129.1 |
| 160     | 46.0  | 38.3  | 57.5  |



#41  
 2,4,6-Tribromophenol  
 Concen: 1.009 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.0  | 115.6 |
| 141     | 67.8  | 29.9  | 44.9# |





#44

2-Fluorobiphenyl

Concen: 74.327 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

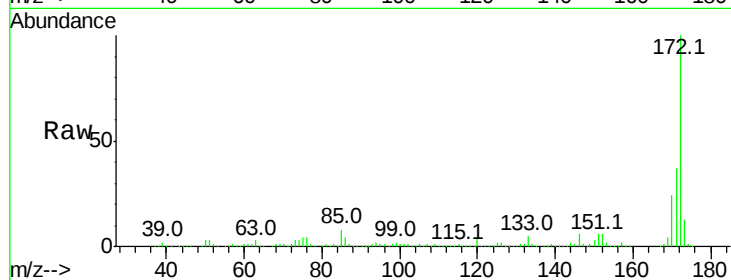
BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

Tot Ion:172 Resp: 1233555

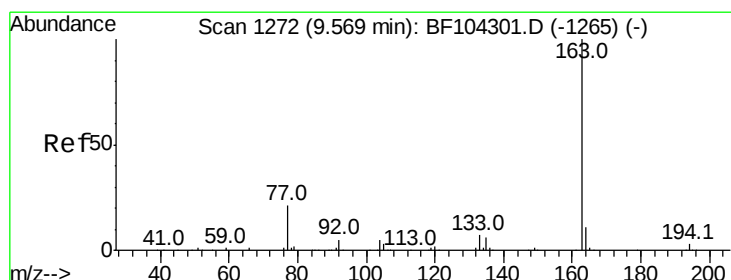
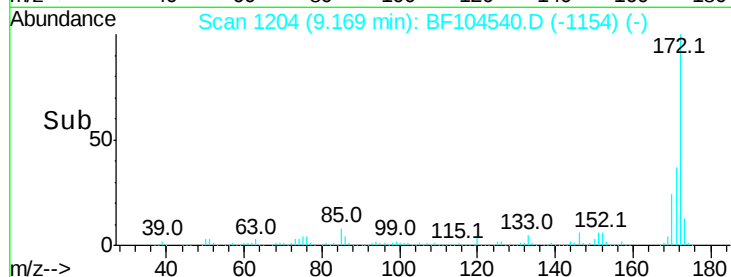
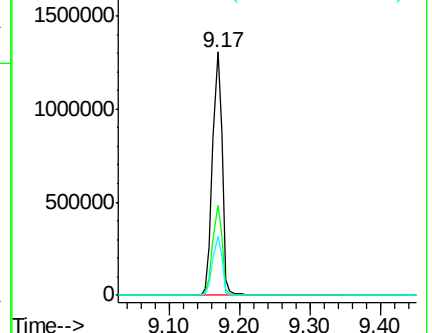
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.9  | 29.7  | 44.5  |
| 170 | 24.4  | 19.6  | 29.4  |



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



#49

Dimethylphthalate

Concen: 10.454 ng

RT: 9.56 min Scan# 1271

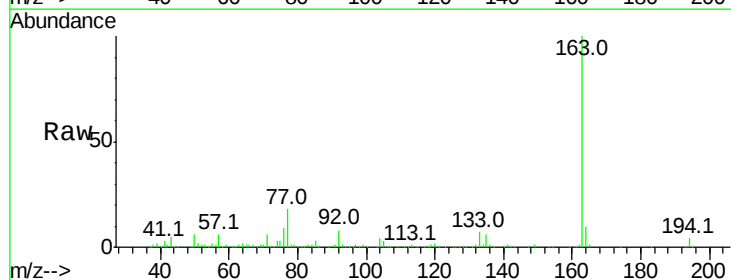
Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Tgt Ion:163 Resp: 216140

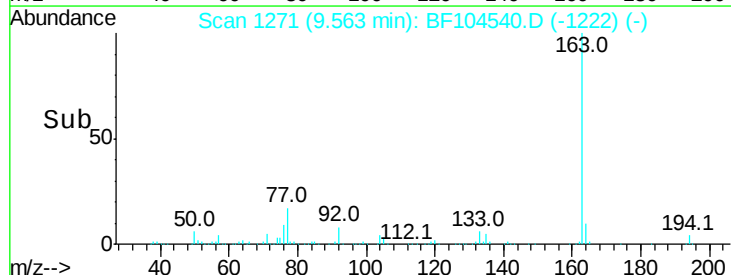
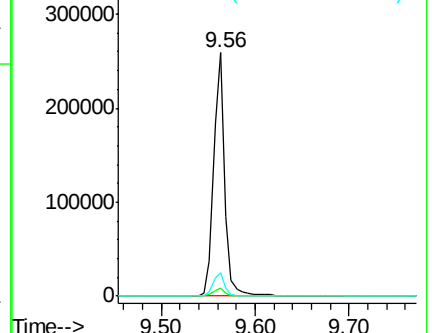
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.5   | 2.7   | 4.1   |
| 164 | 9.8   | 8.2   | 12.2  |

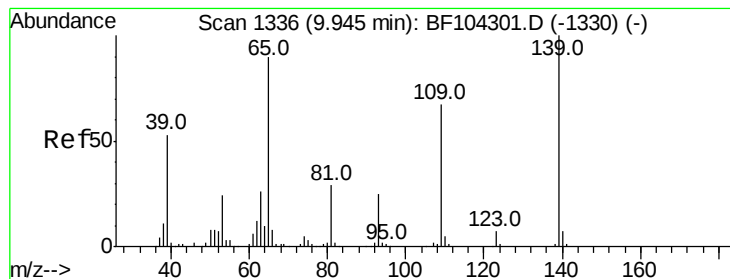


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#55

4-Nitrophenol

Concen: 2.128 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.08 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

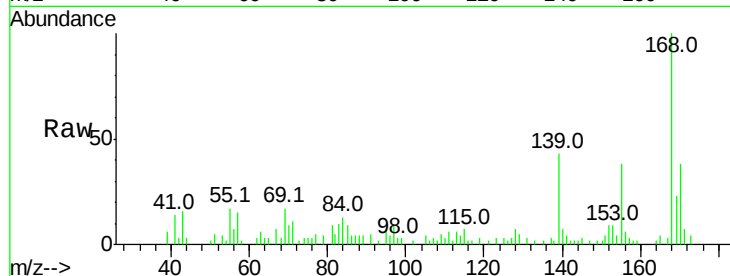
Tot Ion:139 Resp: 7487

Ion Ratio Lower Upper

139 100

109 12.6 48.4 88.4#

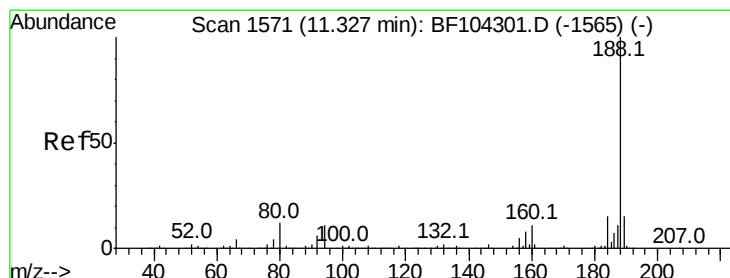
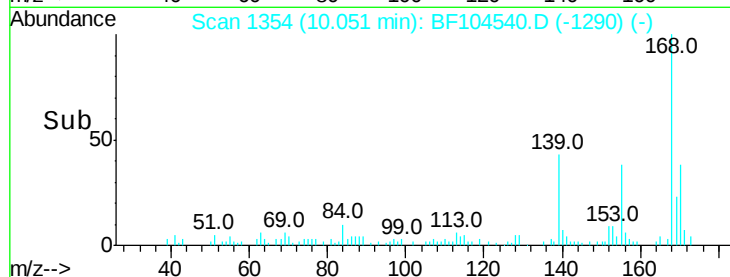
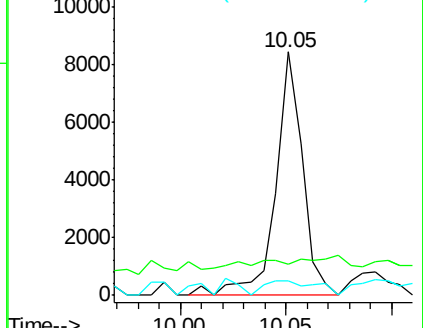
65 6.2 72.6 112.6#



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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

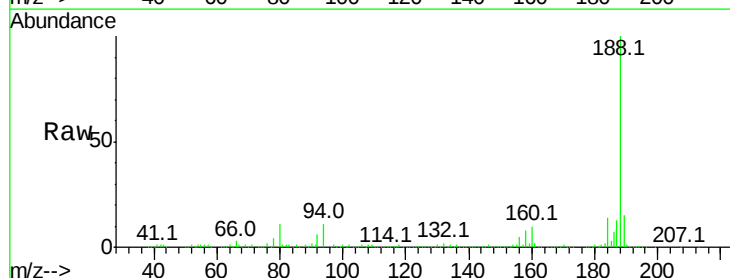
Tgt Ion:188 Resp: 436934

Ion Ratio Lower Upper

188 100

94 10.8 8.5 12.7

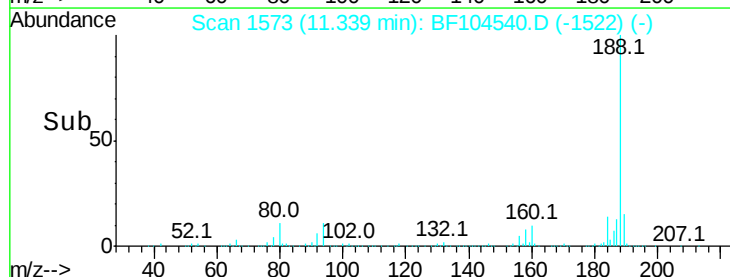
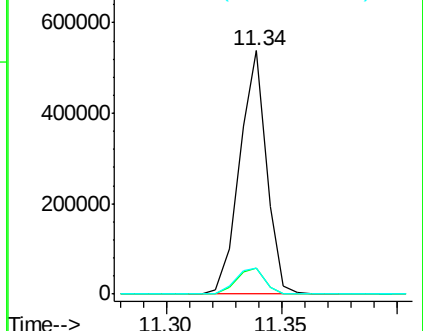
80 11.0 9.2 13.8

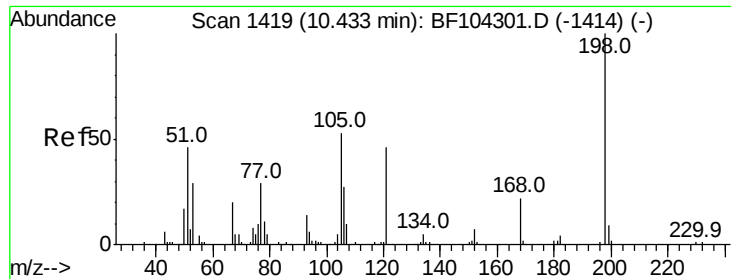


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 7.445 ng

RT: 10.67 min Scan# 1460

Delta R.T. 0.22 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

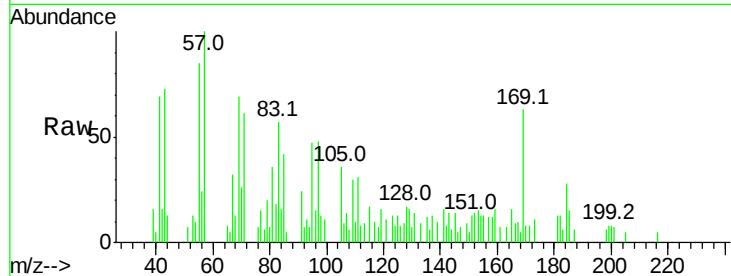
Tot Ion:198 Resp: 247

Ion Ratio Lower Upper

198 100

51 114.2 37.7 77.7#

105 603.3 36.3 76.3#

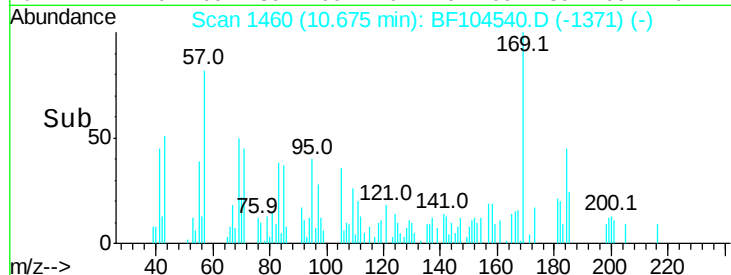


Abundance Ion 198.00 (197.70 to 198.70): E

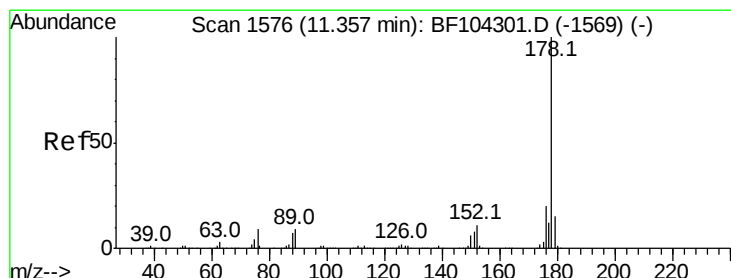
Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

Time-->



Time-->



#70

Phenanthrene

Concen: 8.055 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

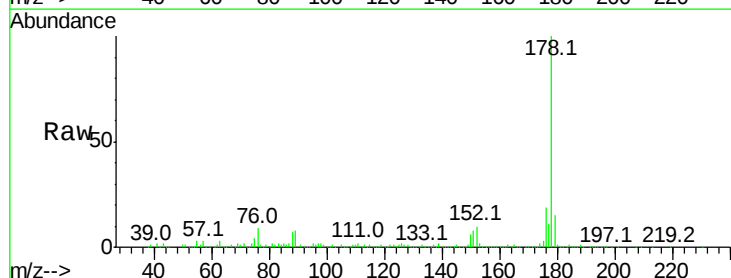
Tgt Ion:178 Resp: 196001

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

179 15.3 13.0 19.6

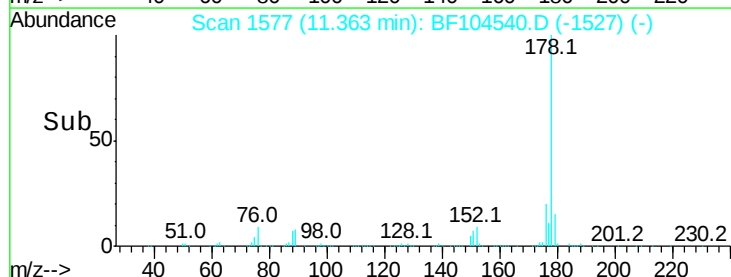


Abundance Ion 178.00 (177.70 to 178.70): E

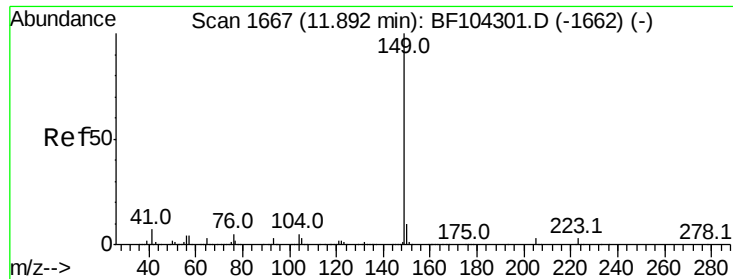
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



Time-->



#73

Di-n-butylphthalate

Concen: 2.048 ng

RT: 11.90 min Scan# 1668

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

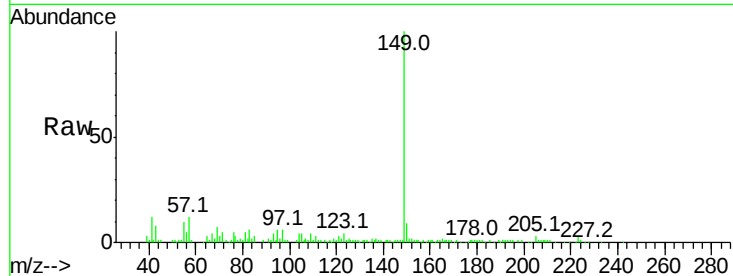
Tot Ion:149 Resp: 60462

Ion Ratio Lower Upper

149 100

150 8.8 7.8 11.6

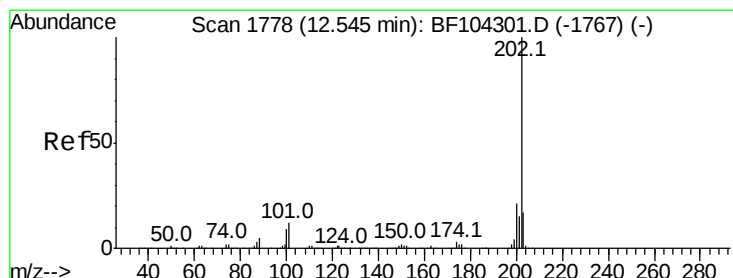
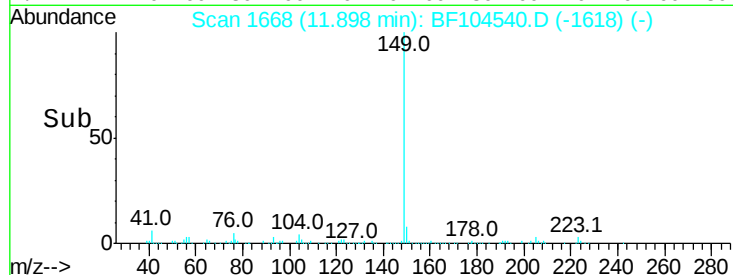
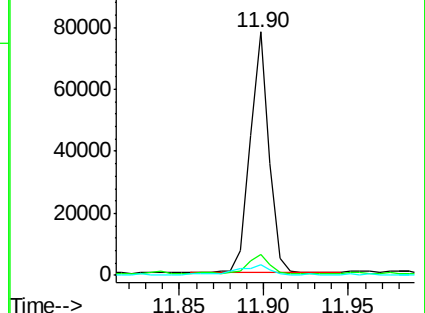
104 4.3 3.8 5.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 7.754 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

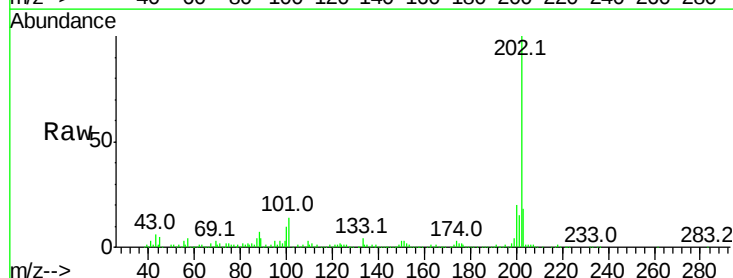
Tgt Ion:202 Resp: 197128

Ion Ratio Lower Upper

202 100

101 13.5 0.0 34.1

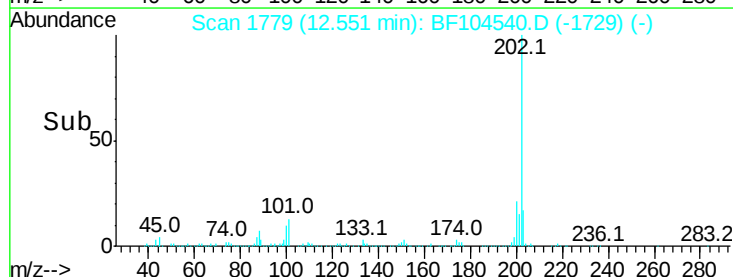
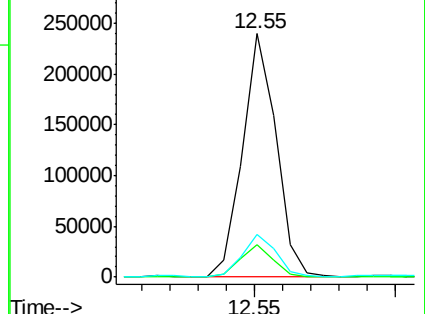
203 17.6 0.0 38.1

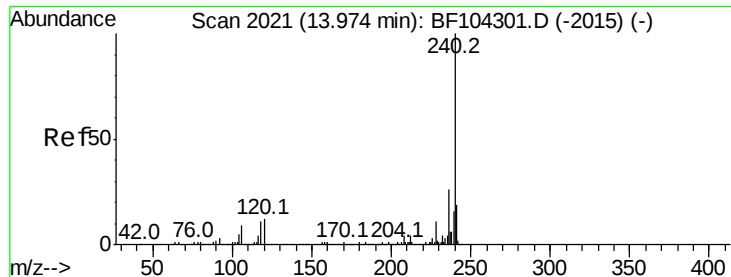


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

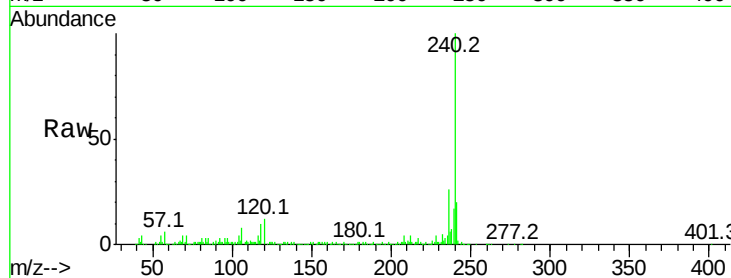
Tot Ion:240 Resp: 264807

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

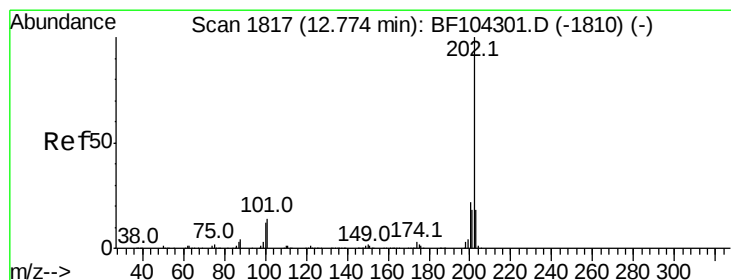
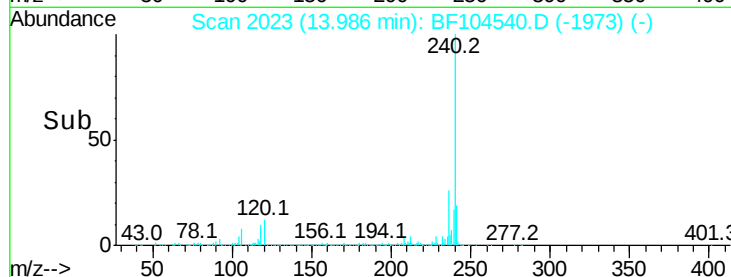
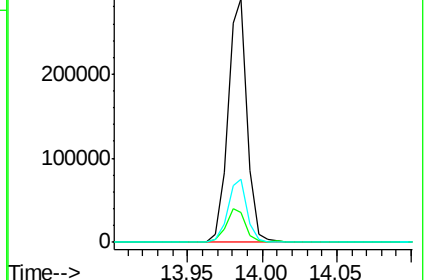
236 26.1 20.7 31.1



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

Pyrene

Concen: 9.066 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

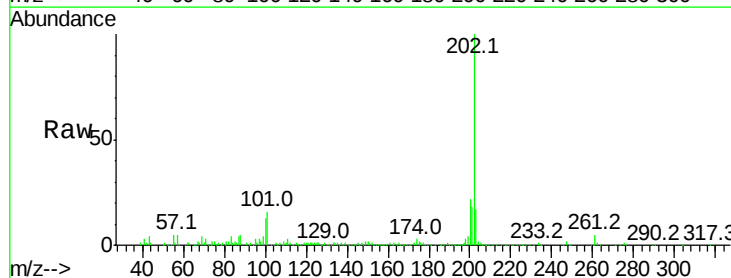
Tgt Ion:202 Resp: 177948

Ion Ratio Lower Upper

202 100

200 22.3 17.4 26.2

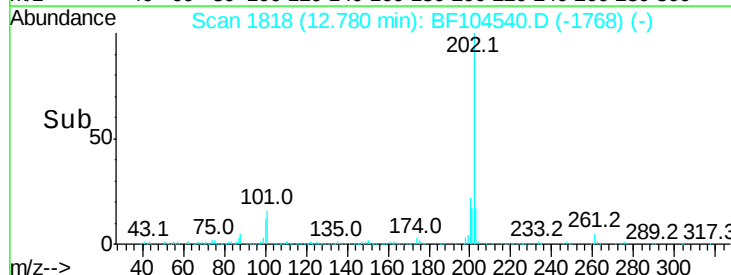
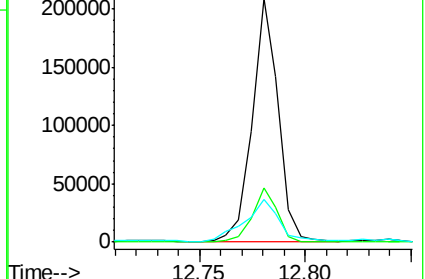
203 17.4 14.3 21.5

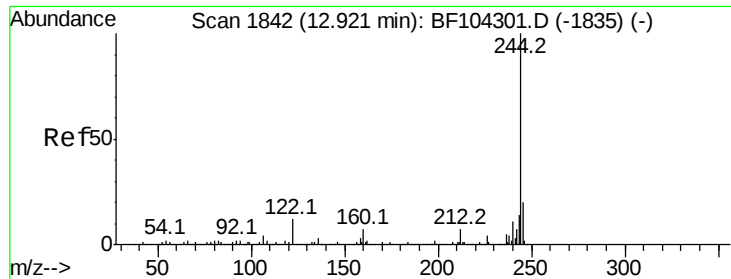


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

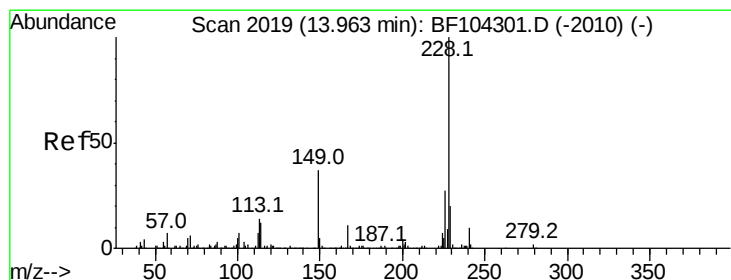
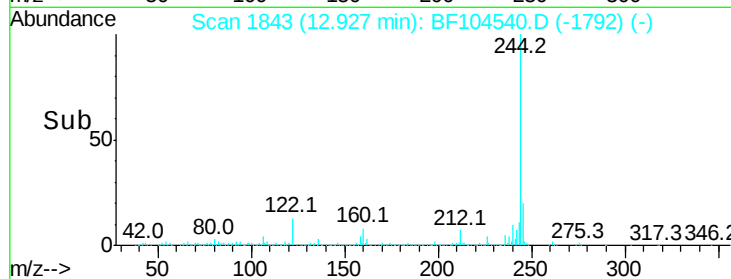
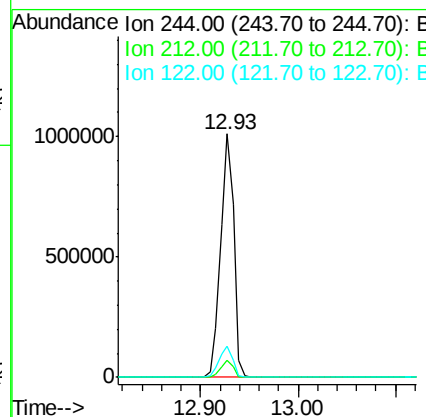
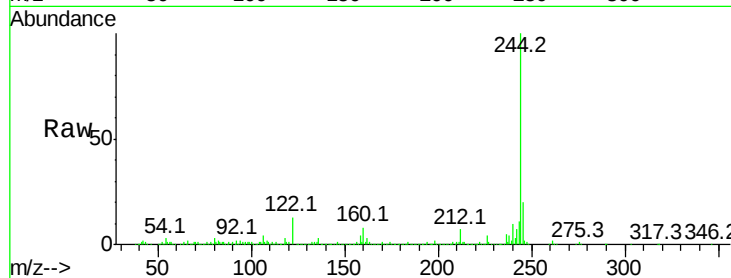




#78  
 Terphenyl-d14  
 Concen: 81.823 ng  
 RT: 12.93 min Scan# 1843  
 Delta R.T. -0.00 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

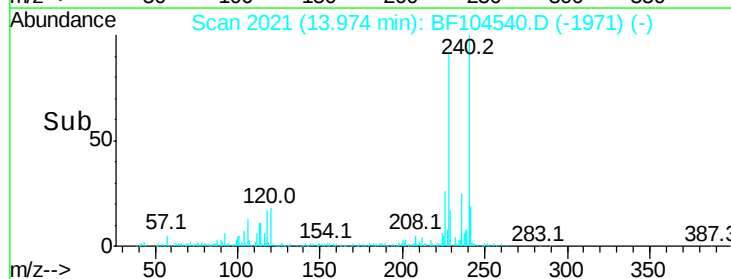
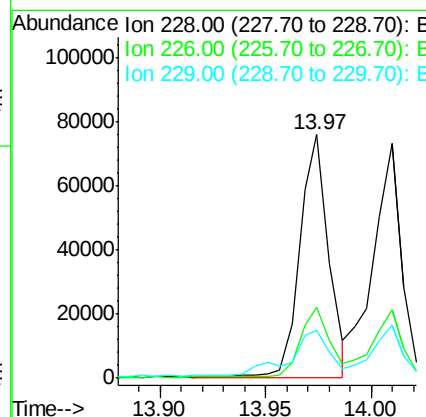
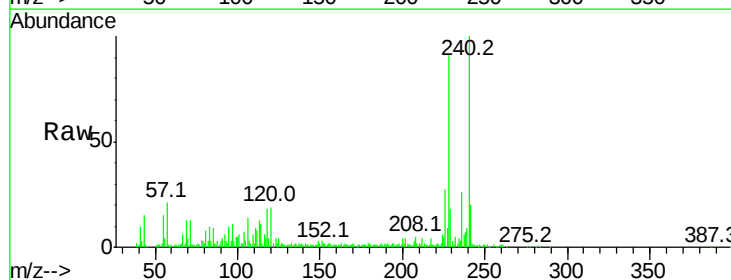
Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-1-2-DENSE-GRADE-AGG-RCA

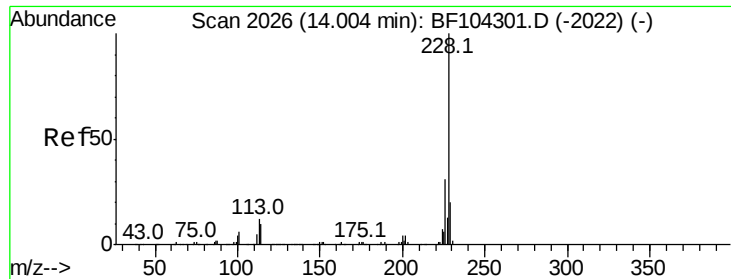
Tot Ion:244 Resp: 950396  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.0  
 122 12.8 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 4.519 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.01 min  
 Lab File: BF104540.D  
 Acq: 16 Apr 2018 18:41

Tgt Ion:228 Resp: 71495  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 22.6 33.8  
 229 19.7 15.8 23.6

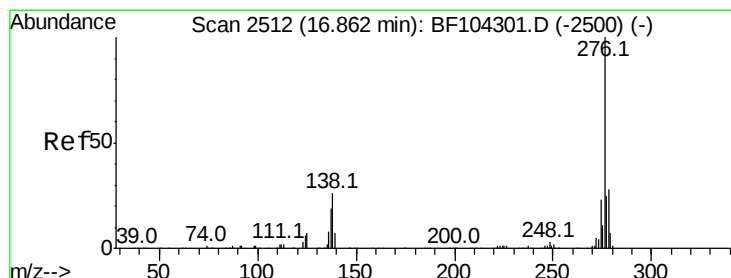
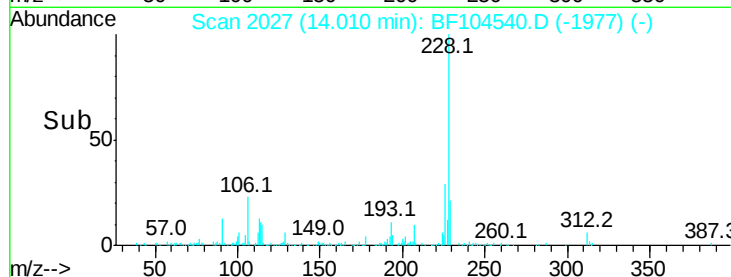
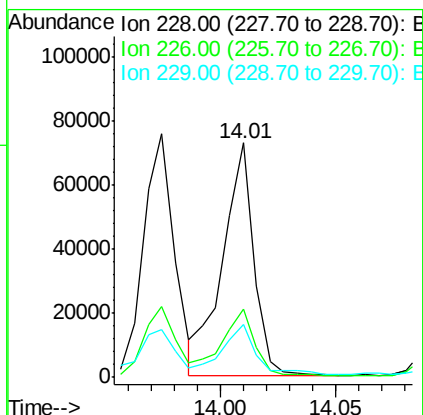
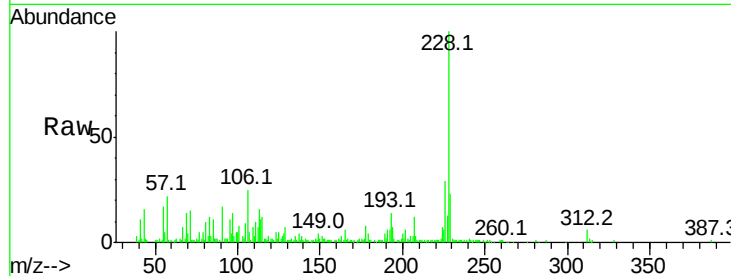




#82  
Chrysene  
Concen: 4.241 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

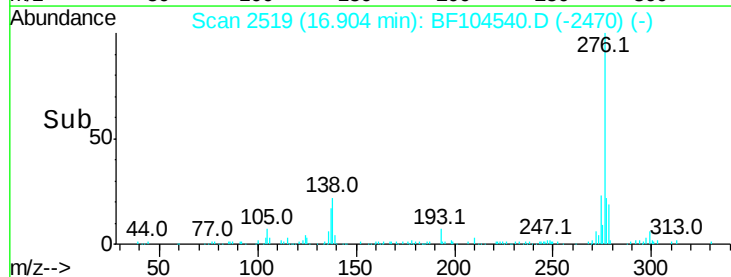
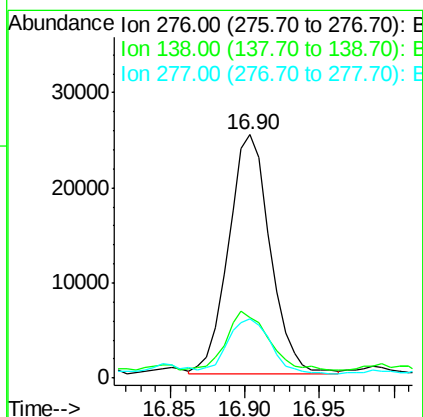
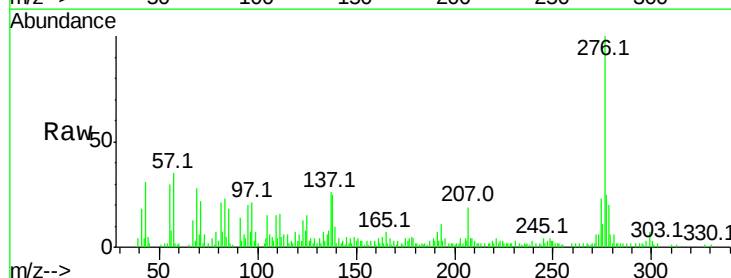
Instrument :  
BNA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

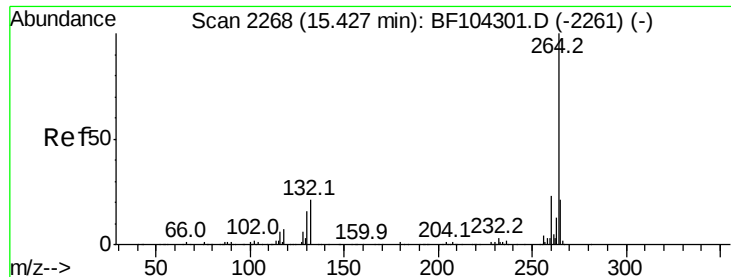
Tot Ion:228 Resp: 68914  
Ion Ratio Lower Upper  
228 100  
226 29.2 25.0 37.6  
229 22.6 16.2 24.4



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.579 ng  
RT: 16.90 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Tgt Ion:276 Resp: 49407  
Ion Ratio Lower Upper  
276 100  
138 26.2 25.0 37.6  
277 23.6 20.1 30.1

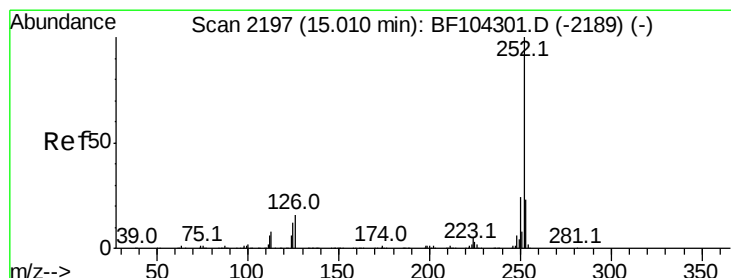
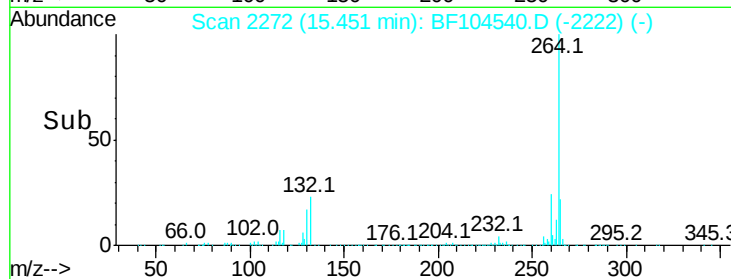
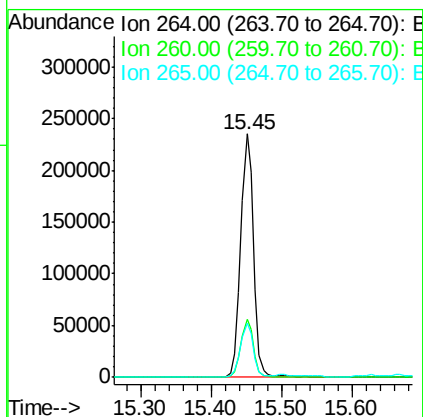
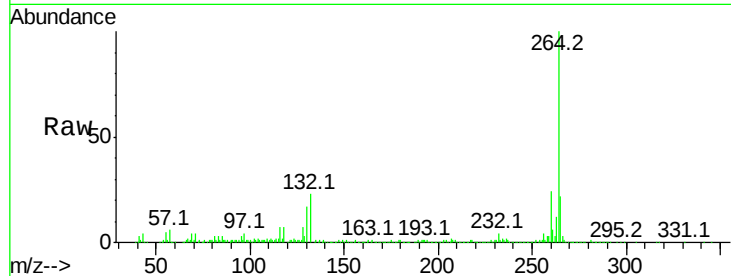




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

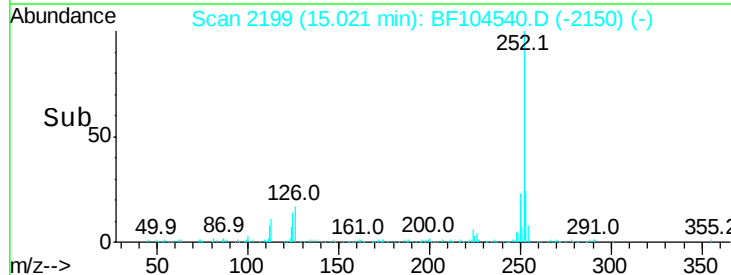
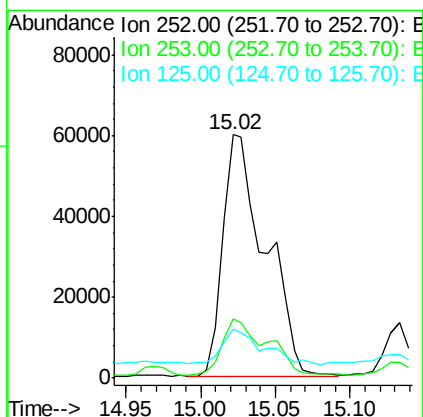
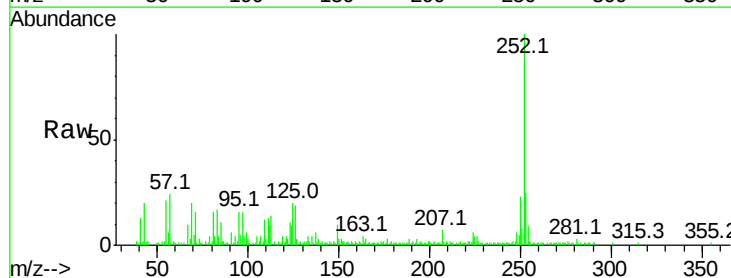
Instrument :  
BNA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

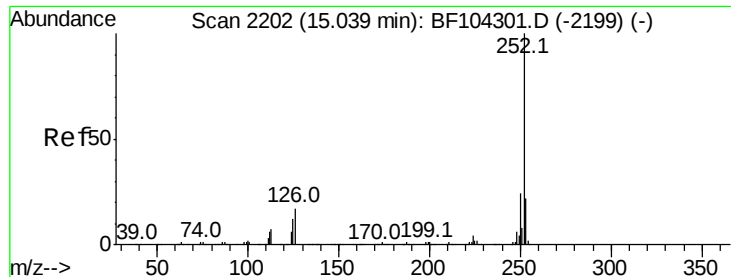
Tot Ion:264 Resp: 299788  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.2 28.8  
265 22.3 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 6.316 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Tgt Ion:252 Resp: 119583  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.0 25.6  
125 20.2 9.0 13.6#

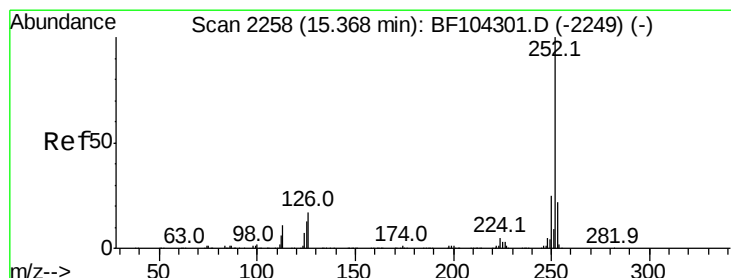
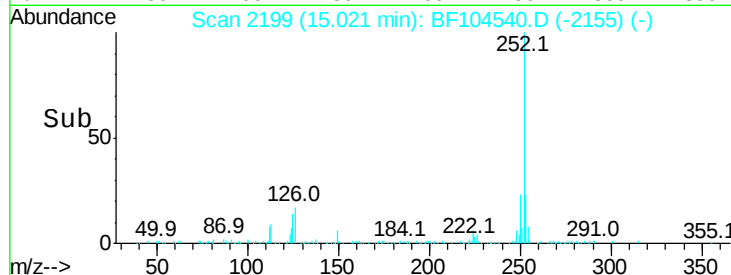
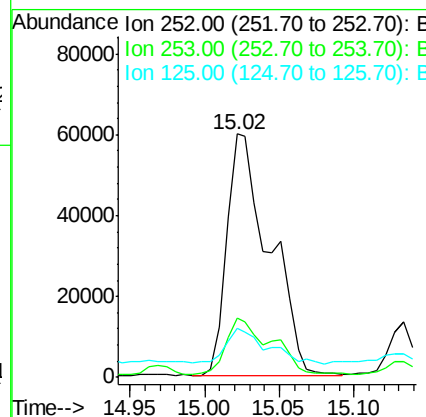
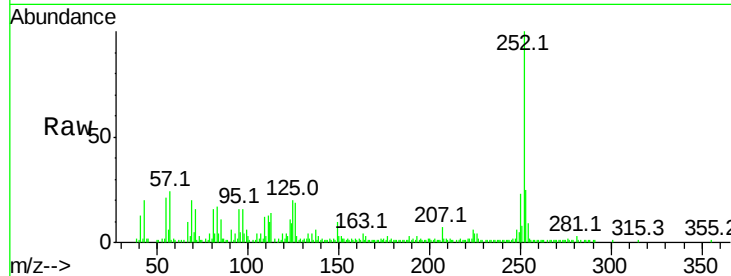




#88  
Benzo(k)fluoranthene  
Concen: 6.690 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.04 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

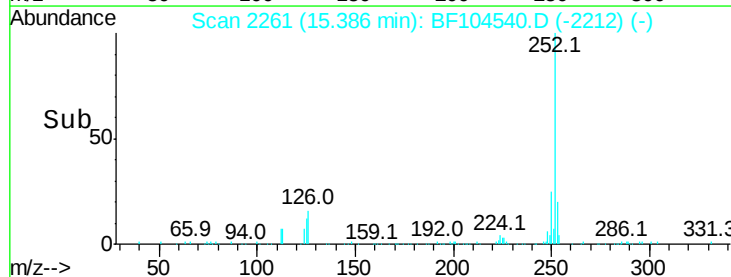
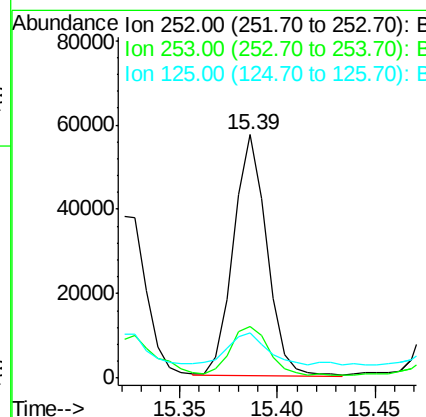
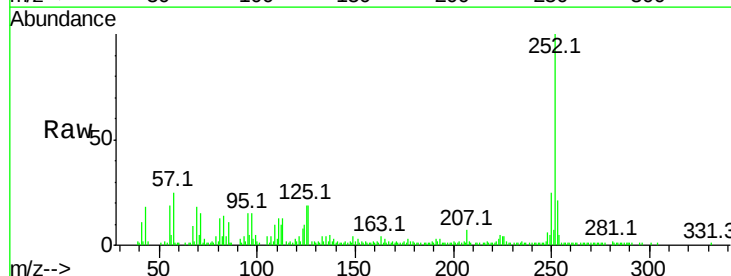
Instrument :  
BNA\_F  
ClientSampleId :  
1-1-2-DENSE-GRADE-AGG-RCA

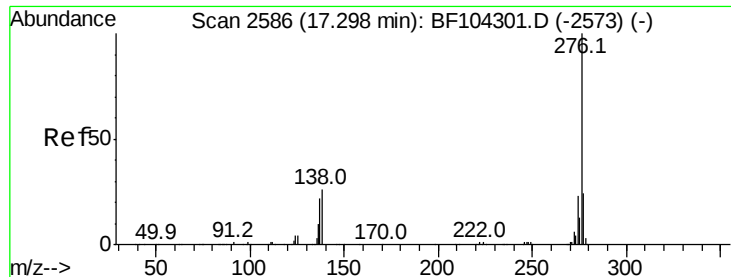
Tot Ion:252 Resp: 119583  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.9 26.9  
125 20.2 10.2 15.2#



#89  
Benzo(a)pyrene  
Concen: 3.988 ng  
RT: 15.39 min Scan# 2261  
Delta R.T. -0.01 min  
Lab File: BF104540.D  
Acq: 16 Apr 2018 18:41

Tgt Ion:252 Resp: 67566  
Ion Ratio Lower Upper  
252 100  
253 21.3 17.1 25.7  
125 18.5 9.8 14.6#





#91

Benzo(a,h,i)perylene

Concen: 3.630 ng

RT: 17.34 min Scan# 2593

Delta R.T. -0.02 min

Lab File: BF104540.D

Acq: 16 Apr 2018 18:41

Instrument :

BNA\_F

ClientSampleId :

1-1-2-DENSE-GRADE-AGG-RCA

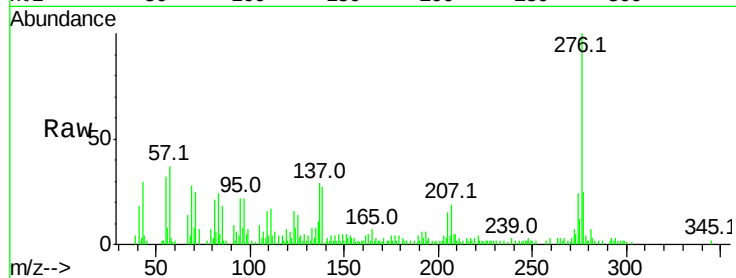
Tot Ion:276 Resp: 48933

Ion Ratio Lower Upper

276 100

277 24.6 17.9 26.9

138 26.7 21.8 32.8



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

