

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100416\  
 Data File : BF090363.D  
 Acq On : 5 Oct 2016 1:01  
 Operator : UM/SJ  
 Sample : H5025-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PA-2

Quant Time: Oct 05 03:04:25 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 04 14:16:07 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.01  | 152  | 220719   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.30  | 136  | 816504   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.06 | 164  | 378300   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.55 | 188  | 662257   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.20 | 240  | 703316   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.71 | 264  | 521837   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 1556593  | 111.23 | ng    | 0.00     |
| 7) Phenol-d6                | 6.63  | 99   | 1823917  | 104.27 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.57  | 82   | 1186541  | 84.71  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.85 | 330  | 423887   | 129.01 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.38  | 172  | 1844620  | 79.50  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.14 | 244  | 1910950  | 63.26  | ng    | 0.00     |

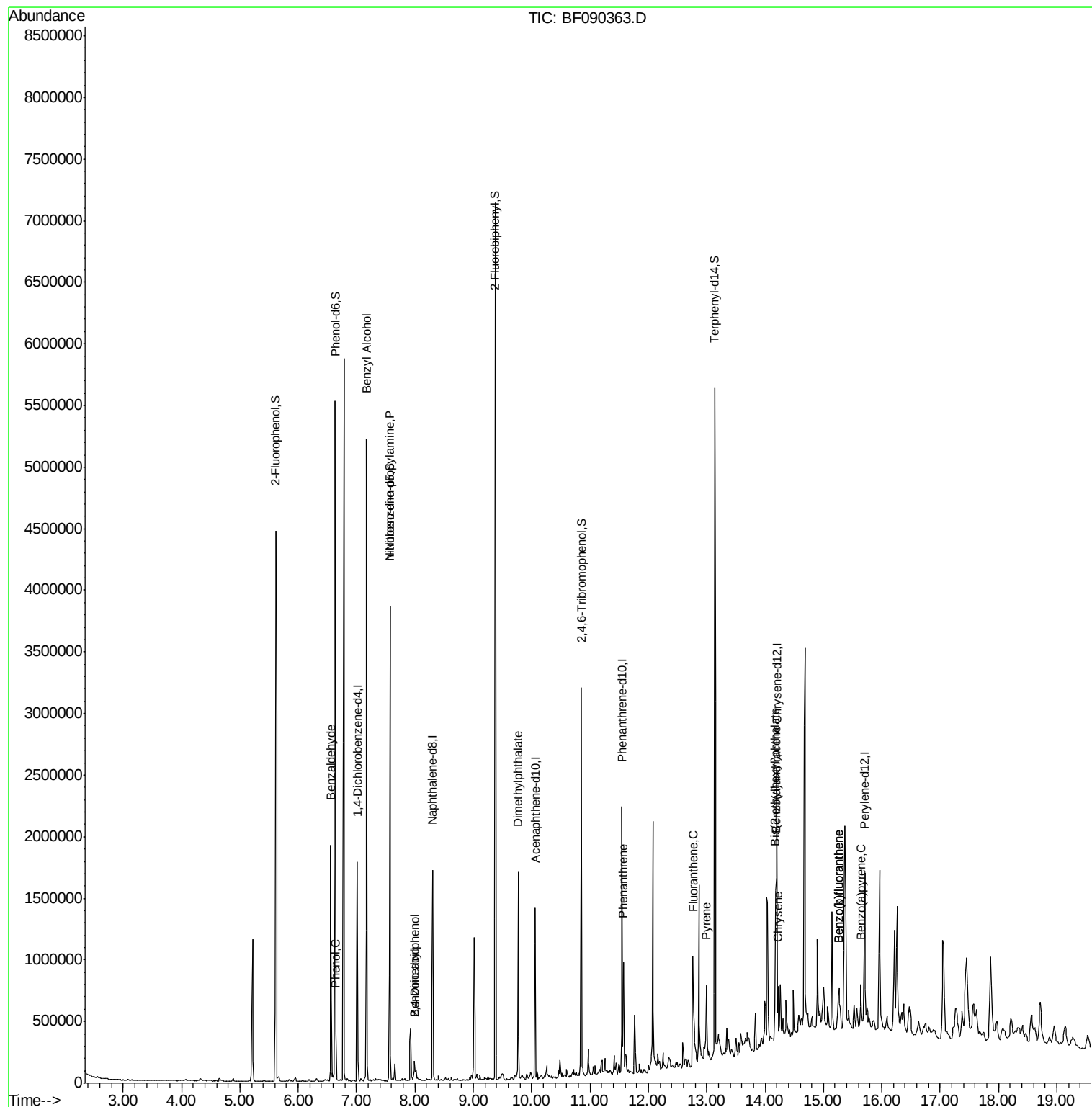
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.55  | 77   | 423785   | 52.19 | ng    | 88     |
| 10) Phenol                     | 6.65  | 94   | 46374    | 2.18  | ng    | 95     |
| 15) Benzyl Alcohol             | 7.17  | 79   | 29947    | 2.43  | ng    | # 44   |
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 168736   | 15.11 | ng    | # 66   |
| 27) 2,4-Dimethylphenol         | 7.99  | 122  | 46464    | 3.57  | ng    | # 6    |
| 32) Benzoic acid               | 7.99  | 122  | 49012    | 10.47 | ng    | 90     |
| 49) Dimethylphthalate          | 9.77  | 163  | 579581   | 25.88 | ng    | 99     |
| 70) Phenanthrene               | 11.57 | 178  | 269583   | 7.59  | ng    | 96     |
| 74) Fluoranthene               | 12.76 | 202  | 315616   | 9.37  | ng    | 93     |
| 77) Pyrene                     | 12.99 | 202  | 299008   | 6.64  | ng    | 97     |
| 80) Benzo(a)anthracene         | 14.19 | 228  | 146745   | 3.72  | ng    | 100    |
| 82) Chrysene                   | 14.22 | 228  | 120362   | 3.26  | ng    | 96     |
| 83) Bis(2-ethylhexyl)phthalate | 14.18 | 149  | 258761   | 9.11  | ng    | # 95   |
| 87) Benzo(b)fluoranthene       | 15.26 | 252  | 218014   | 7.26  | ng    | # 94   |
| 88) Benzo(k)fluoranthene       | 15.26 | 252  | 218127   | 7.61  | ng    | 97     |
| 89) Benzo(a)pyrene             | 15.64 | 252  | 99082    | 3.62  | ng    | # 95   |

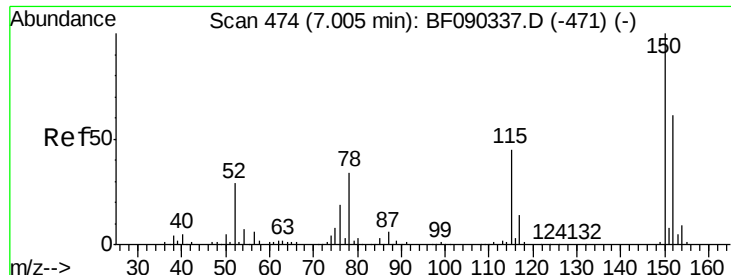
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100416\  
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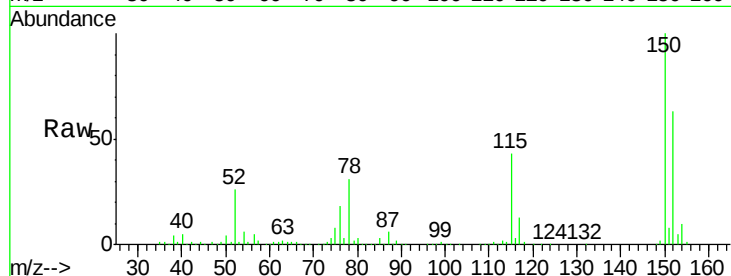




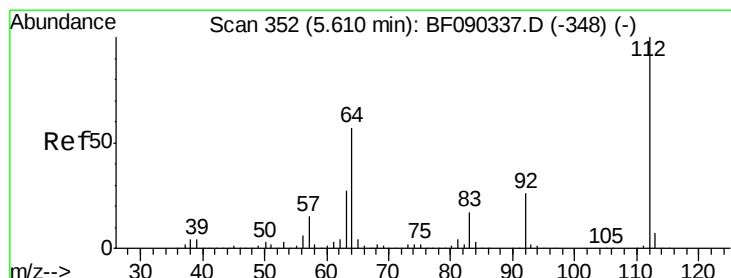
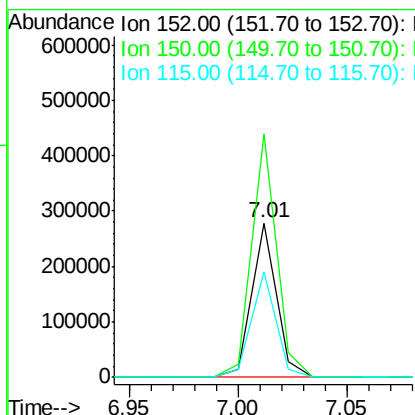
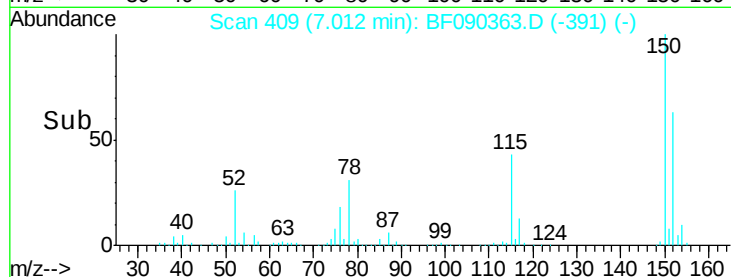
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.01 min Scan# 409  
 Delta R.T. 0.01 min  
 Lab File: BF090363.D  
 Acq: 5 Oct 2016 1:01

Instrument :  
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 ClientSampleId :  
 PA-2

Tgt Ion:152 Resp: 220719  
 Ion Ratio Lower Upper  
 152 100  
 150 157.9 124.6 186.8  
 115 67.9 46.2 69.4

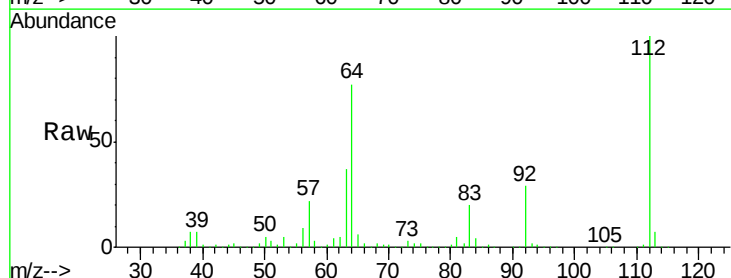


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

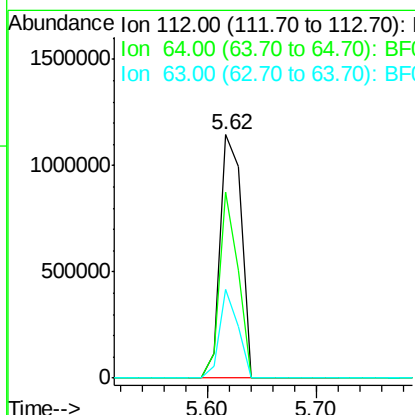
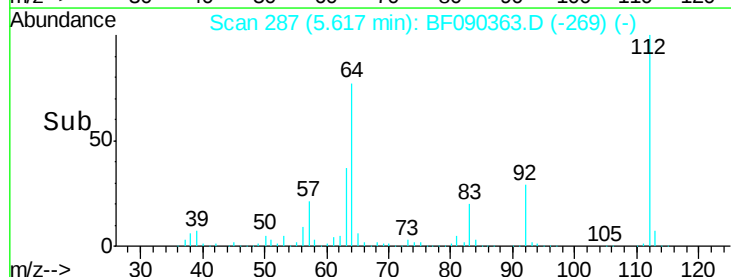


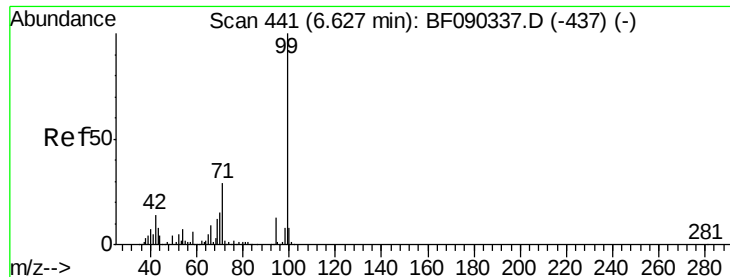
#5  
 2-Fluorophenol  
 Concen: 111.23 ng  
 RT: 5.62 min Scan# 287  
 Delta R.T. 0.01 min  
 Lab File: BF090363.D  
 Acq: 5 Oct 2016 1:01

Tgt Ion:112 Resp: 1556593  
 Ion Ratio Lower Upper  
 112 100  
 64 76.5 57.9 86.9  
 63 36.6 29.6 44.4



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: 104.27 ng

RT: 6.63 min Scan# 376

Delta R.T. 0.01 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

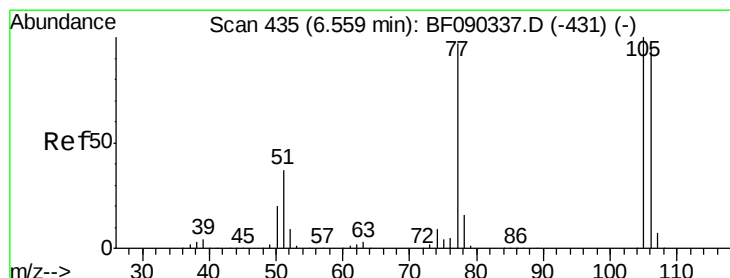
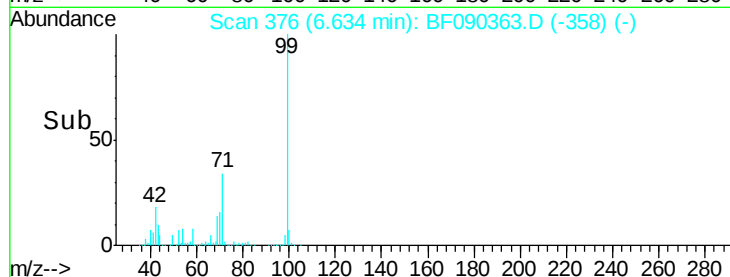
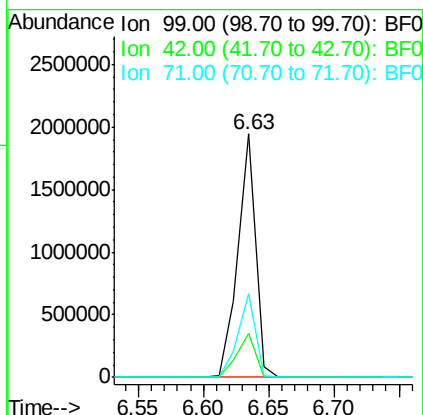
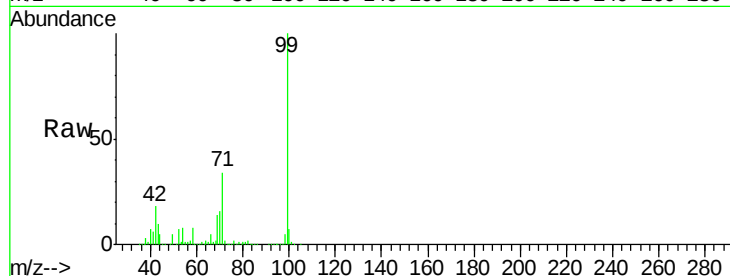
Tgt Ion: 99 Resp: 1823917

Ion Ratio Lower Upper

99 100

42 18.2 20.0 30.0#

71 34.2 27.9 41.9



#9

Benzaldehyde

Concen: 52.19 ng

RT: 6.55 min Scan# 369

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

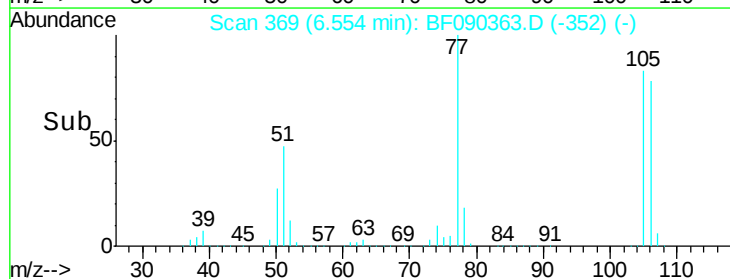
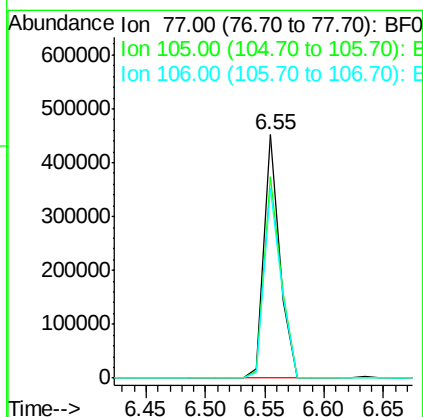
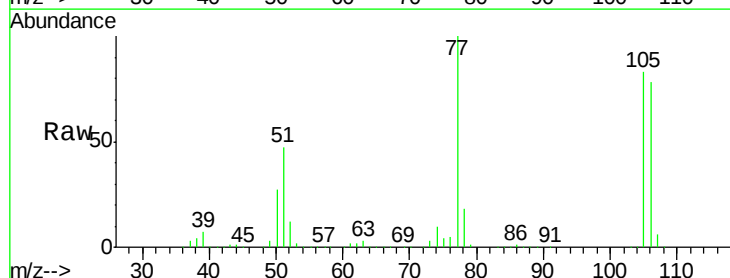
Tgt Ion: 77 Resp: 423785

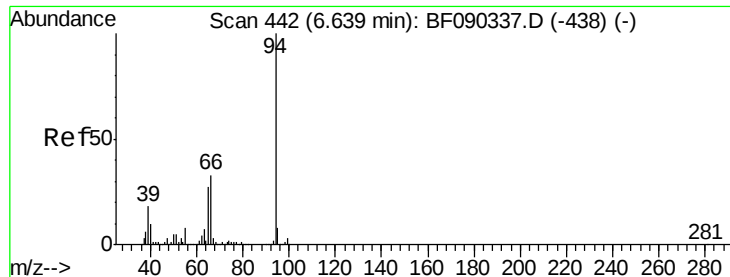
Ion Ratio Lower Upper

77 100

105 82.8 73.1 113.1

106 78.0 70.2 110.2





#10

Phenol

Concen: 2.18 ng

RT: 6.65 min Scan# 377

Delta R.T. 0.01 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

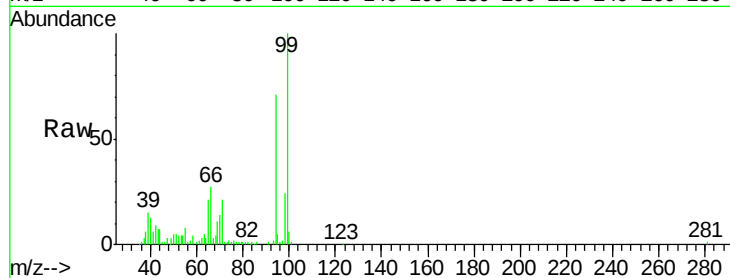
Tgt Ion: 94 Resp: 46374

Ion Ratio Lower Upper

94 100

65 29.5 13.3 53.3

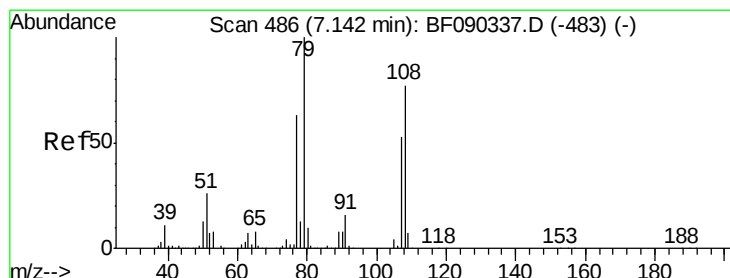
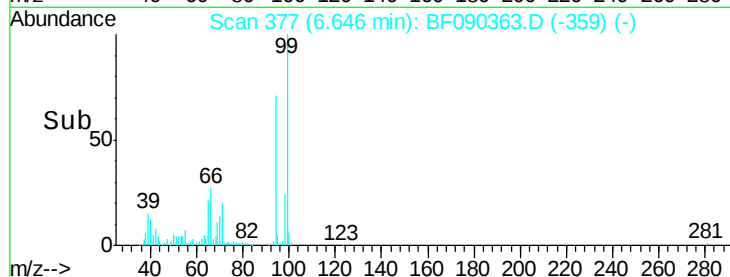
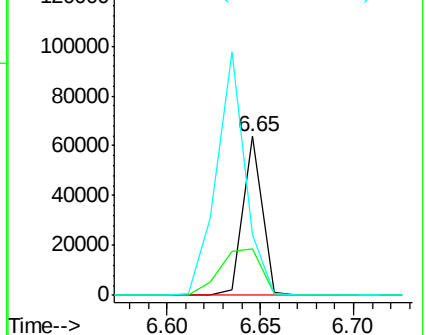
66 38.1 20.4 60.4



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#15

Benzyl Alcohol

Concen: 2.43 ng

RT: 7.17 min Scan# 423

Delta R.T. 0.03 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

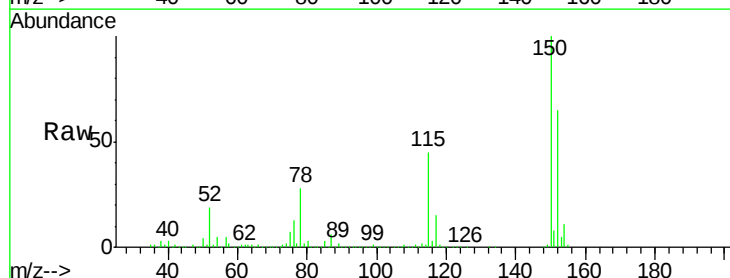
Tgt Ion: 79 Resp: 29947

Ion Ratio Lower Upper

79 100

108 30.5 60.9 91.3#

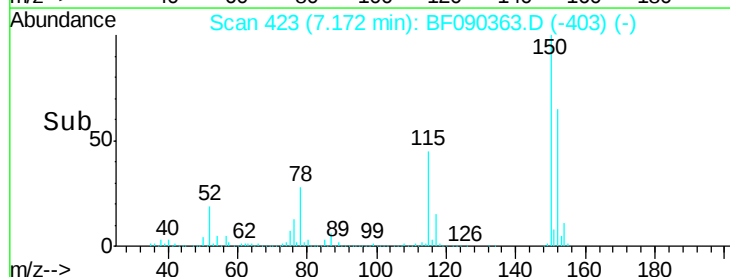
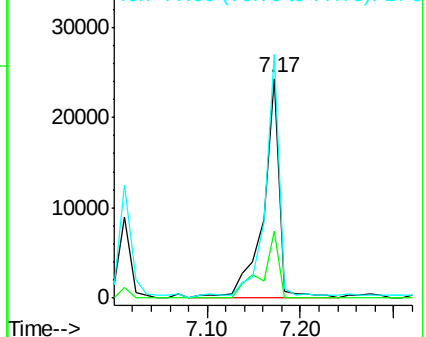
77 110.7 51.5 77.3#

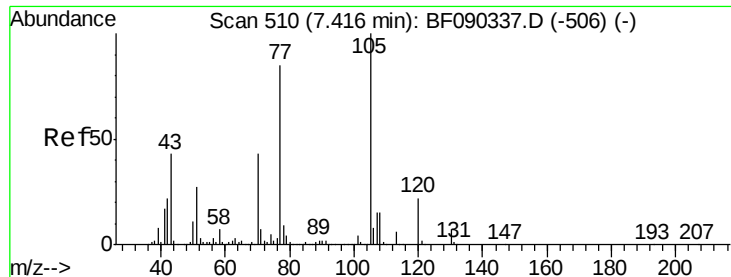


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

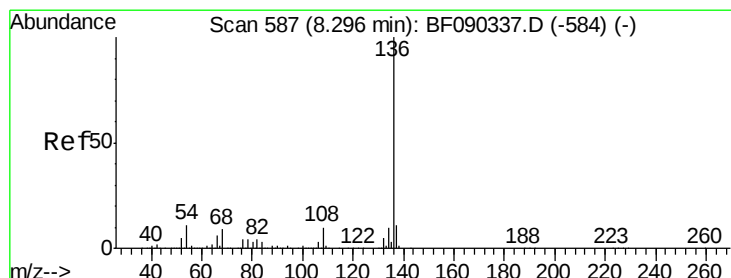
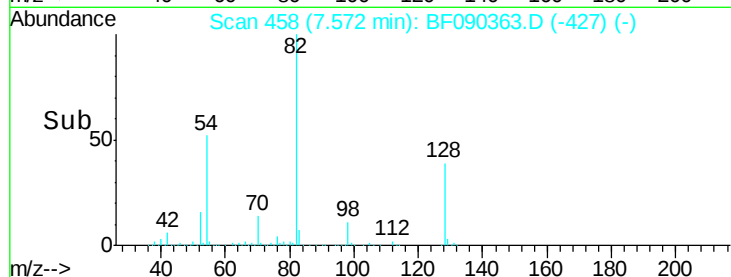
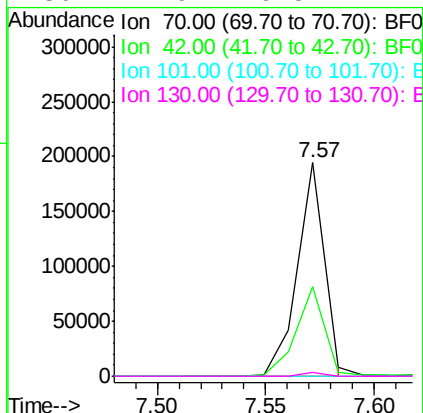
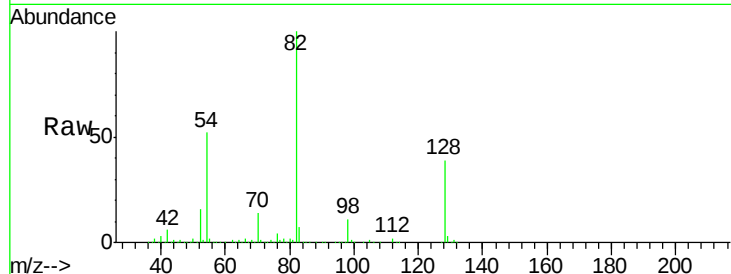




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.11 ng  
RT: 7.57 min Scan# 458  
Delta R.T. 0.16 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

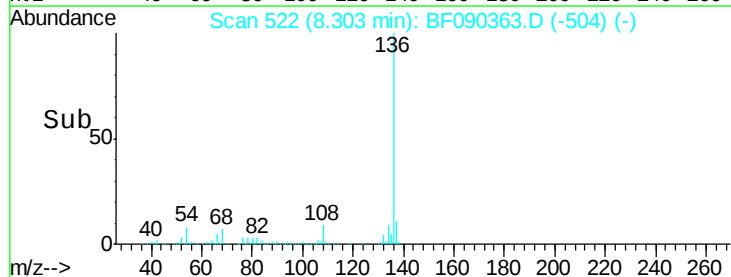
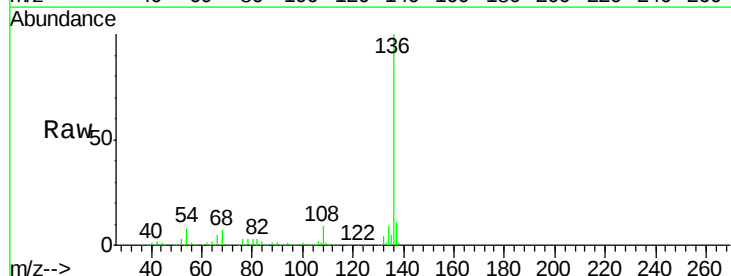
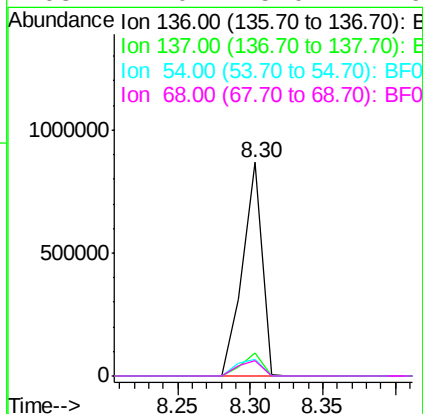
Instrument :  
BNA\_F  
ClientSampleId :  
PA-2

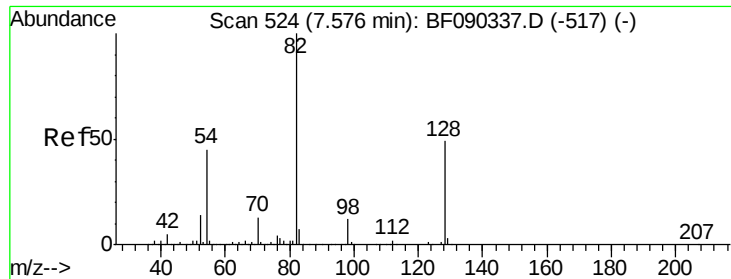
Tgt Ion: 70 Resp: 168736  
Ion Ratio Lower Upper  
70 100  
42 41.7 55.4 83.2#  
101 0.0 7.6 11.4#  
130 1.9 16.5 24.7#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.30 min Scan# 522  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

Tgt Ion: 136 Resp: 816504  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.0 13.6  
54 7.7 6.6 10.0  
68 7.0 5.0 7.6





#23

Nitrobenzene-d5

Concen: 84.71 ng

RT: 7.57 min Scan# 458

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

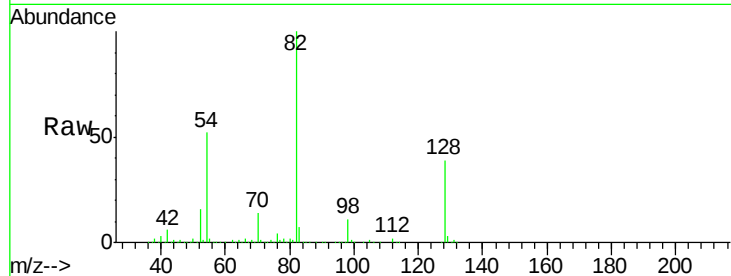
Tgt Ion: 82 Resp: 1186541

Ion Ratio Lower Upper

82 100

128 38.8 40.0 60.0#

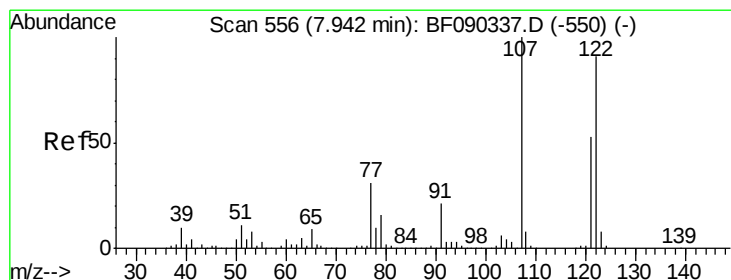
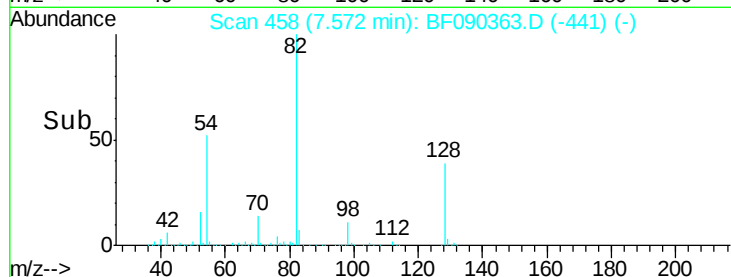
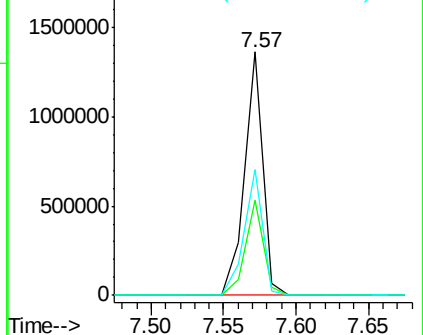
54 51.9 42.6 64.0



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#27

2,4-Dimethylphenol

Concen: 3.57 ng

RT: 7.99 min Scan# 495

Delta R.T. 0.05 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

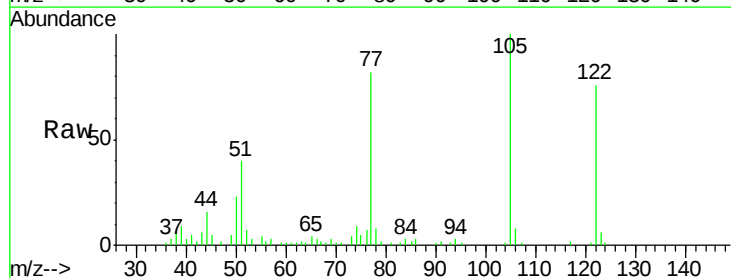
Tgt Ion: 122 Resp: 46464

Ion Ratio Lower Upper

122 100

107 1.1 88.6 132.8#

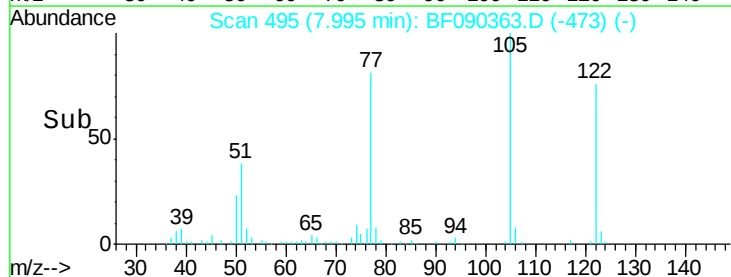
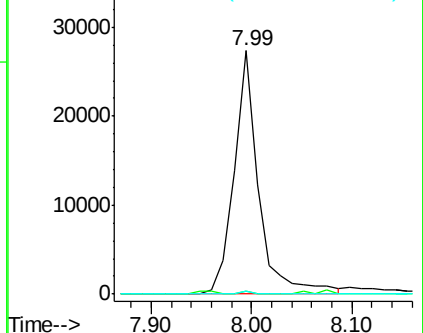
121 1.1 47.5 71.3#

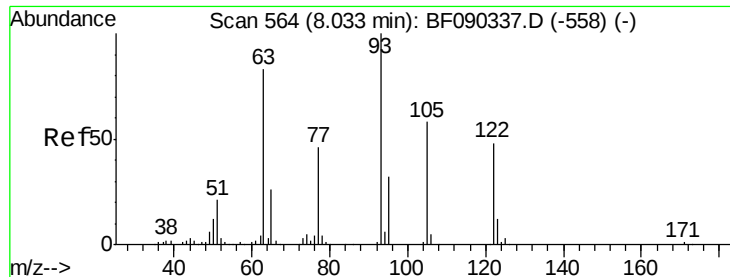


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

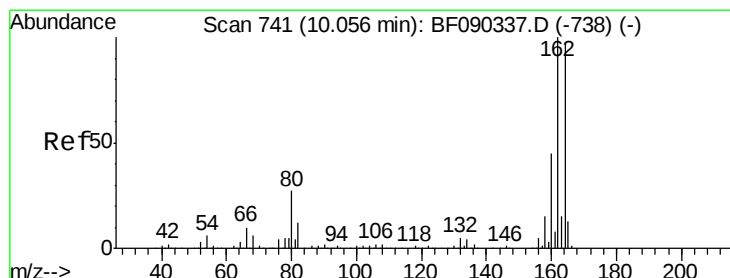
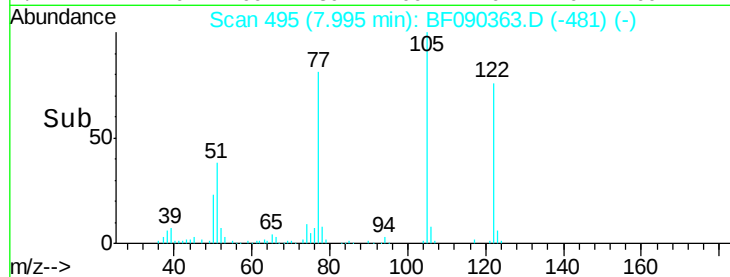
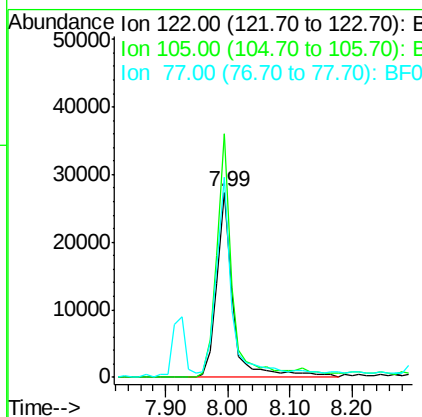
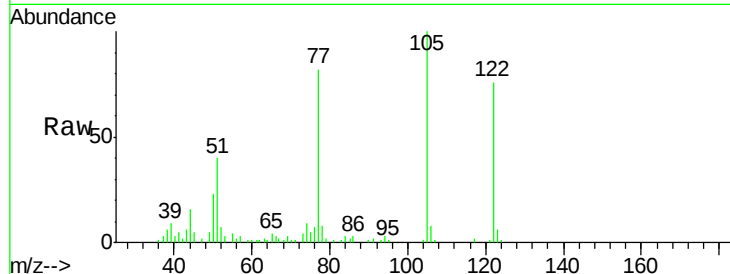




#32  
Benzoic acid  
Concen: 10.47 ng  
RT: 7.99 min Scan# 495  
Delta R.T. -0.04 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

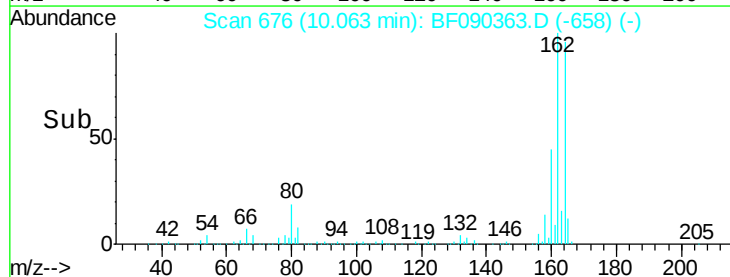
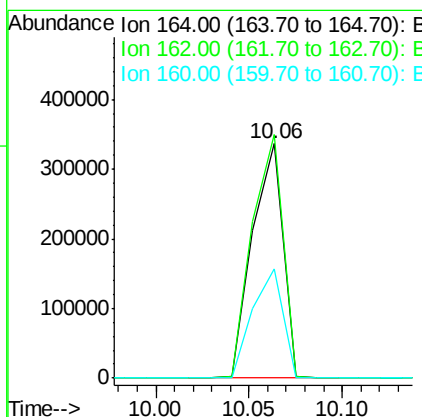
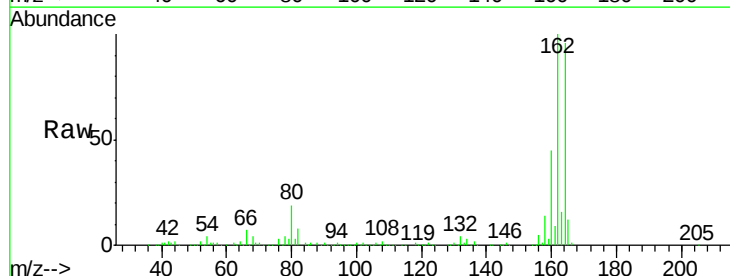
Instrument :  
BNA\_F  
ClientSampleId :  
PA-2

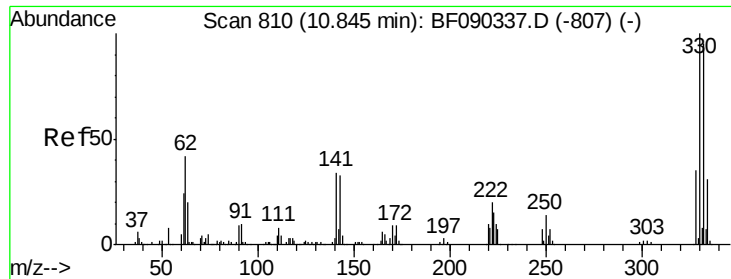
Tgt Ion:122 Resp: 49012  
Ion Ratio Lower Upper  
122 100  
105 131.6 103.9 143.9  
77 107.9 74.6 114.6



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.06 min Scan# 676  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

Tgt Ion:164 Resp: 378300  
Ion Ratio Lower Upper  
164 100  
162 104.0 80.1 120.1  
160 46.4 36.3 54.5

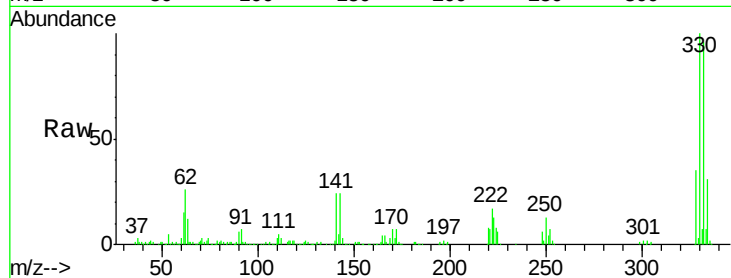




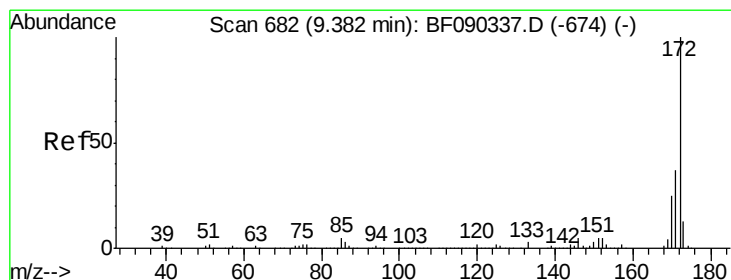
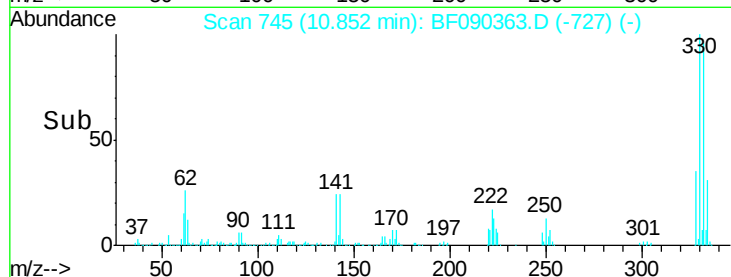
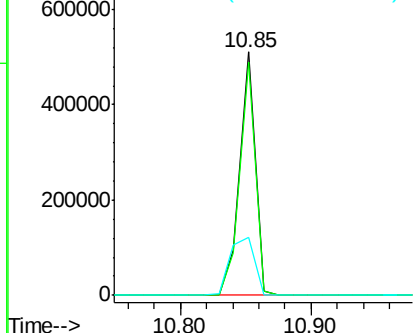
#41  
 2,4,6-Tribromophenol  
 Concen: 129.01 ng  
 RT: 10.85 min Scan# 745  
 Delta R.T. 0.01 min  
 Lab File: BF090363.D  
 Acq: 5 Oct 2016 1:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PA-2

Tgt Ion:330 Resp: 423887  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 75.4 113.0  
 141 37.7 26.9 40.3

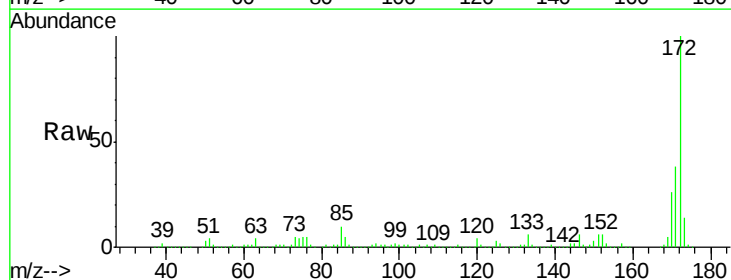


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

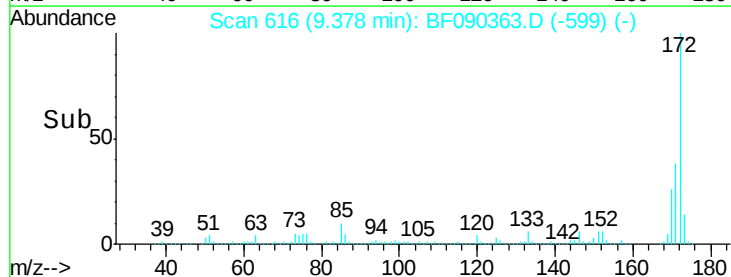
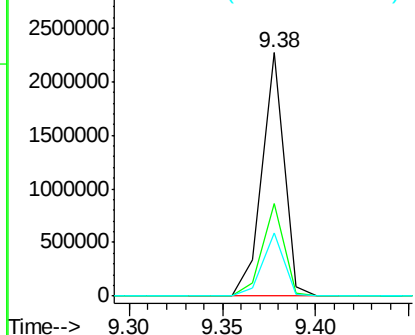


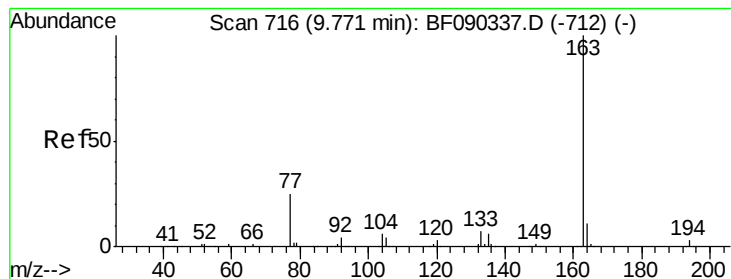
#44  
 2-Fluorobiphenyl  
 Concen: 79.50 ng  
 RT: 9.38 min Scan# 616  
 Delta R.T. -0.00 min  
 Lab File: BF090363.D  
 Acq: 5 Oct 2016 1:01

Tgt Ion:172 Resp: 1844620  
 Ion Ratio Lower Upper  
 172 100  
 171 38.0 31.8 47.8  
 170 25.8 21.7 32.5



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 25.88 ng

RT: 9.77 min Scan# 650

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

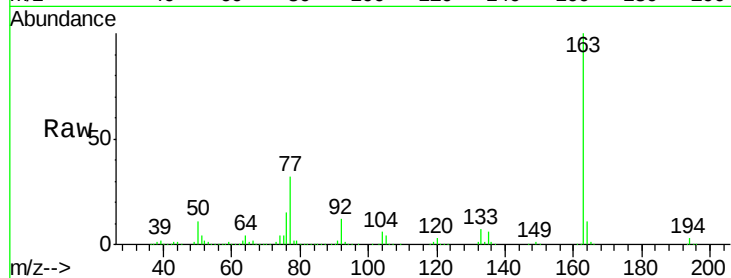
Tgt Ion:163 Resp: 579581

Ion Ratio Lower Upper

163 100

194 3.0 2.8 4.2

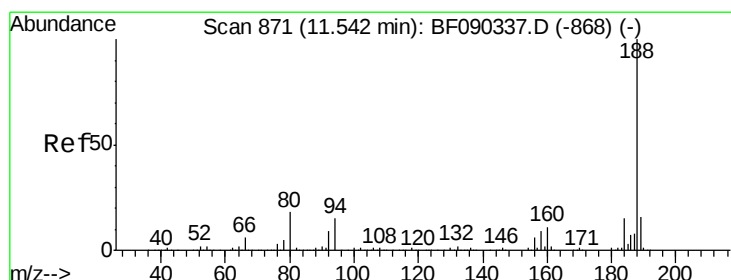
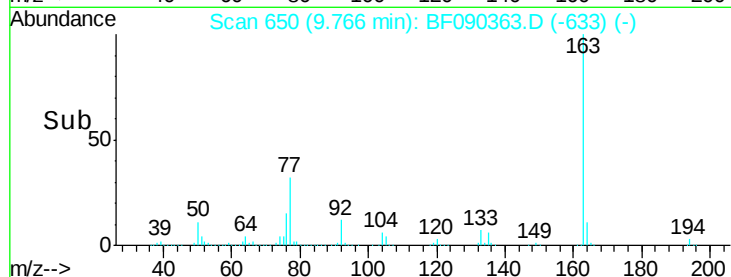
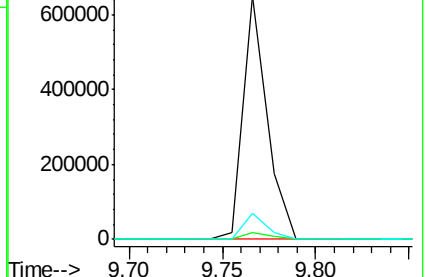
164 10.8 9.0 13.4



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.55 min Scan# 806

Delta R.T. 0.01 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

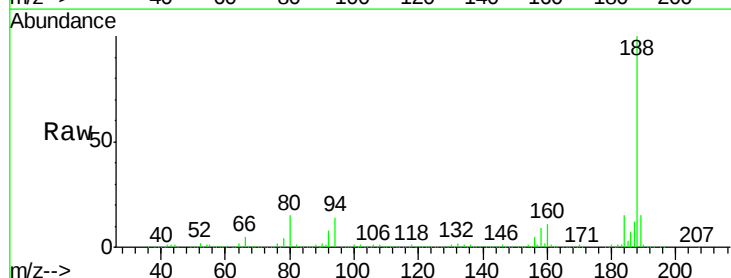
Tgt Ion:188 Resp: 662257

Ion Ratio Lower Upper

188 100

94 13.5 8.2 12.2#

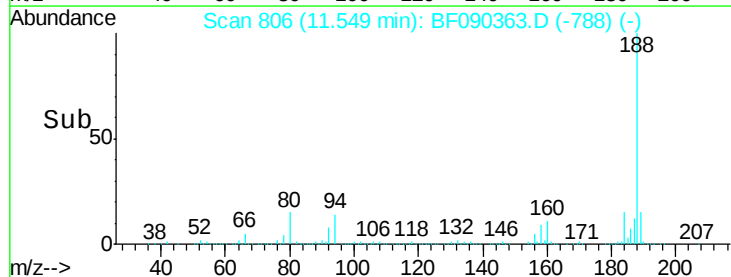
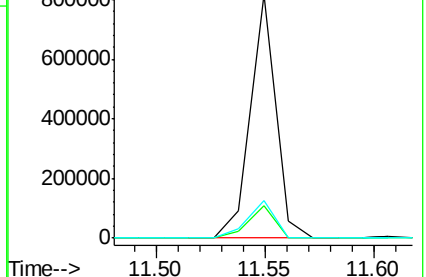
80 15.3 8.8 13.2#

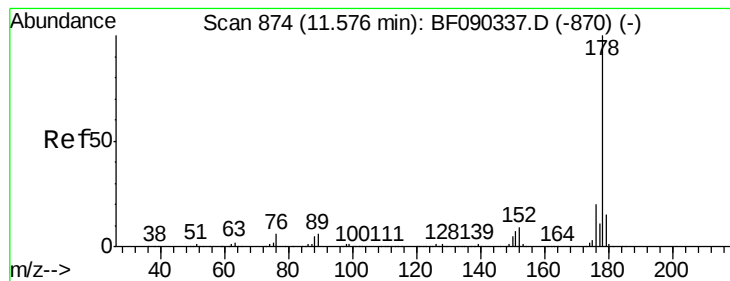


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 7.59 ng

RT: 11.57 min Scan# 808

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

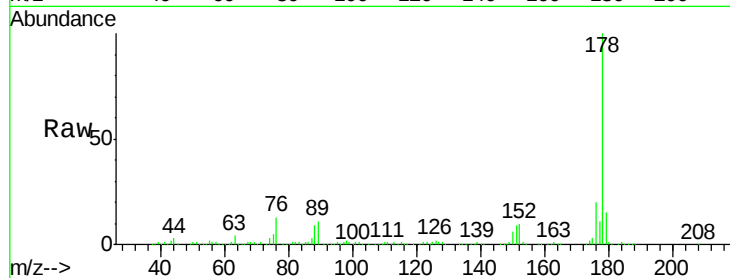
Tgt Ion:178 Resp: 269583

Ion Ratio Lower Upper

178 100

176 19.7 17.3 25.9

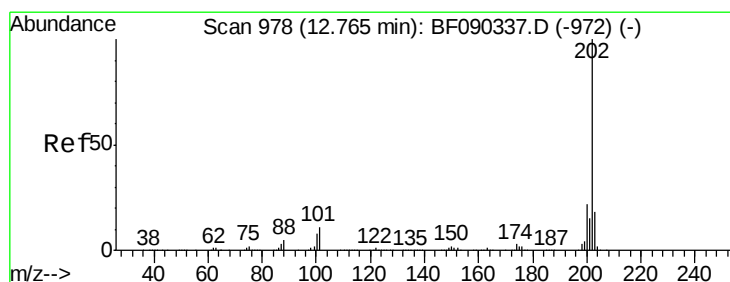
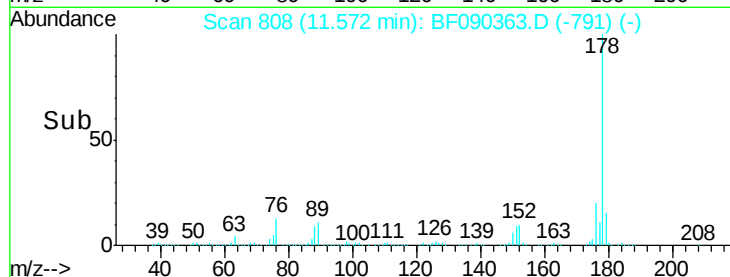
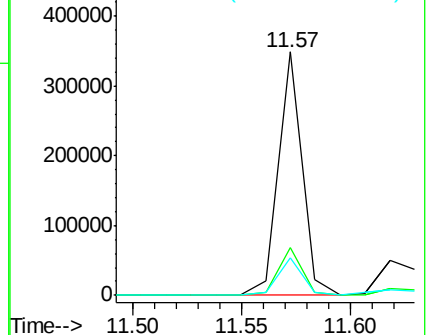
179 15.3 13.8 20.6



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



#74

Fluoranthene

Concen: 9.37 ng

RT: 12.76 min Scan# 912

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

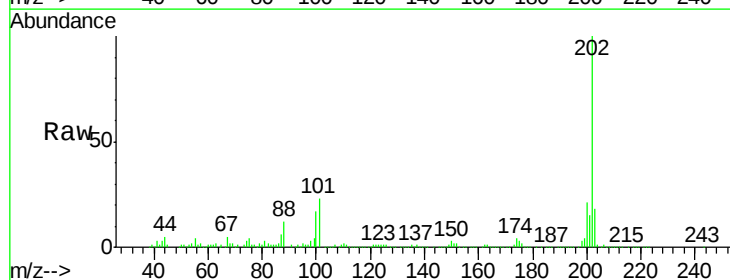
Tgt Ion:202 Resp: 315616

Ion Ratio Lower Upper

202 100

101 22.6 0.0 37.2

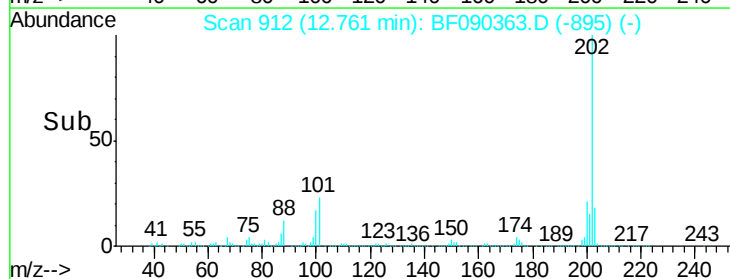
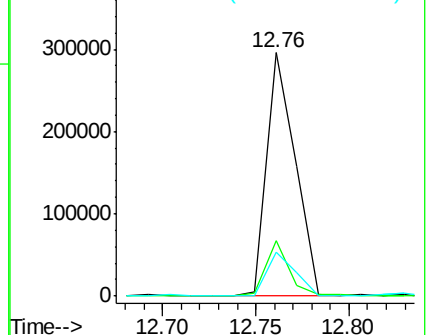
203 17.9 0.0 39.3

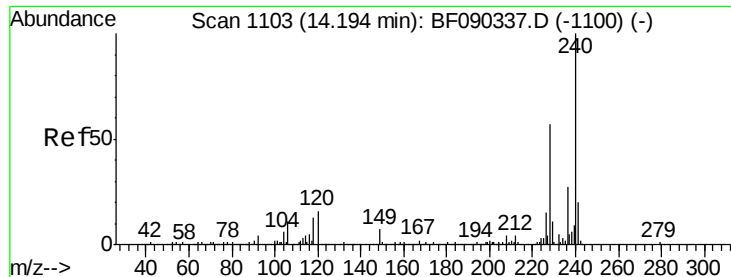


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

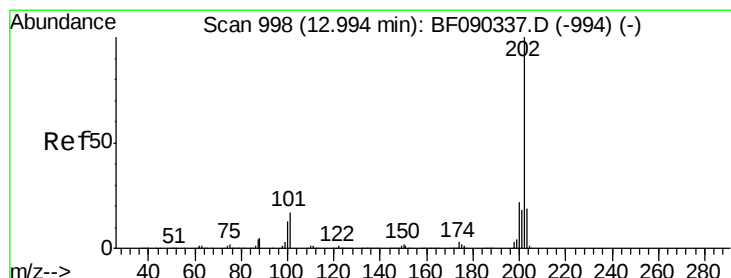
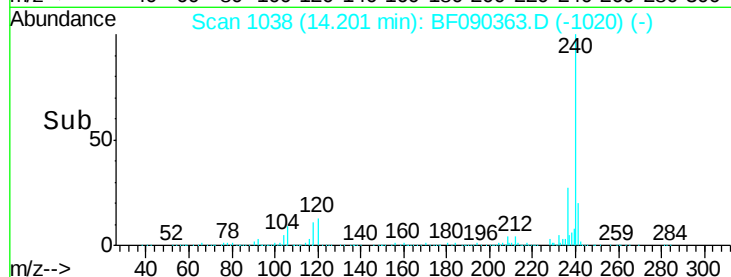
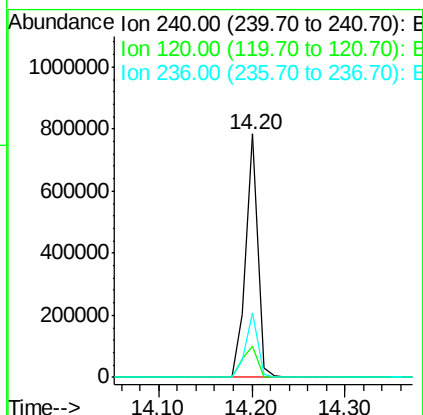
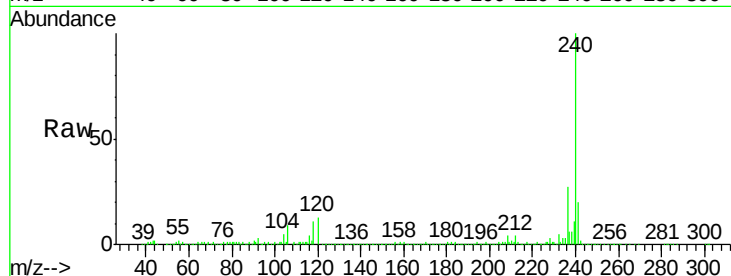




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.20 min Scan# 1038  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

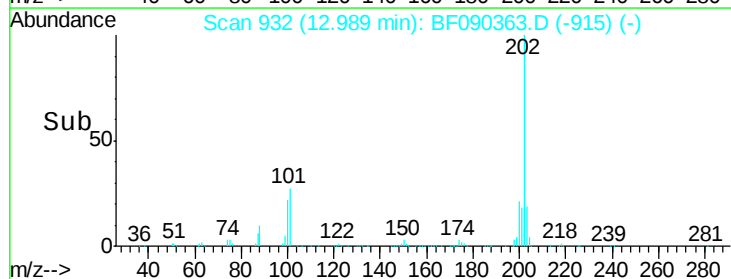
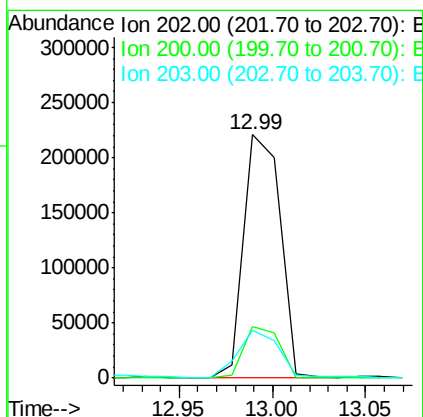
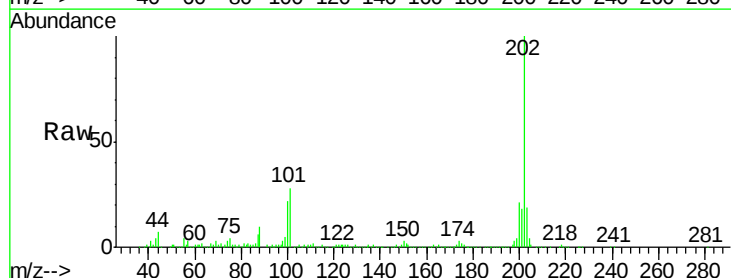
Instrument :  
BNA\_F  
ClientSampled :  
PA-2

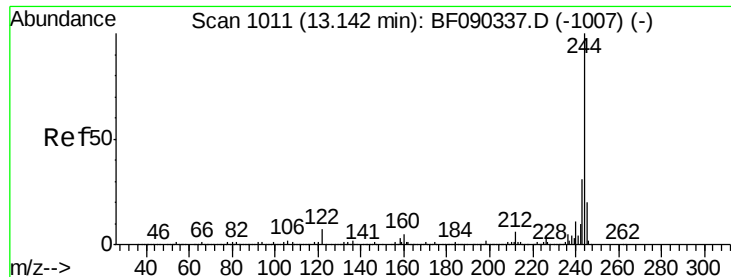
Tgt Ion:240 Resp: 703316  
Ion Ratio Lower Upper  
240 100  
120 12.7 8.6 13.0  
236 26.6 21.6 32.4



#77  
Pyrene  
Concen: 6.64 ng  
RT: 12.99 min Scan# 932  
Delta R.T. -0.00 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

Tgt Ion:202 Resp: 299008  
Ion Ratio Lower Upper  
202 100  
200 21.4 18.5 27.7  
203 19.5 15.0 22.6





#78

Terphenyl-d14

Concen: 63.26 ng

RT: 13.14 min Scan# 945

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampleId :

PA-2

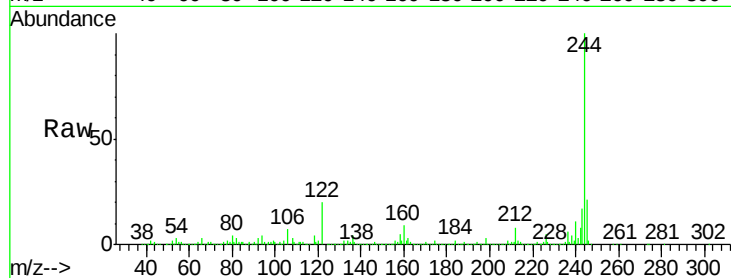
Tgt Ion:244 Resp: 1910950

Ion Ratio Lower Upper

244 100

212 8.0 6.8 10.2

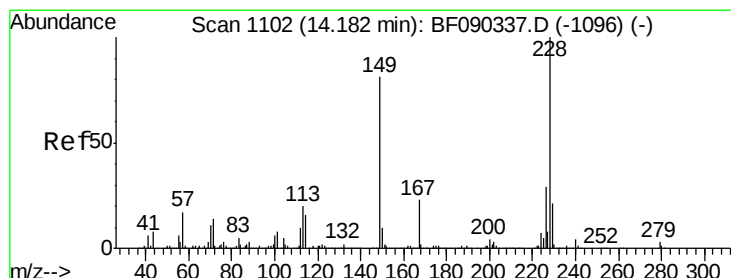
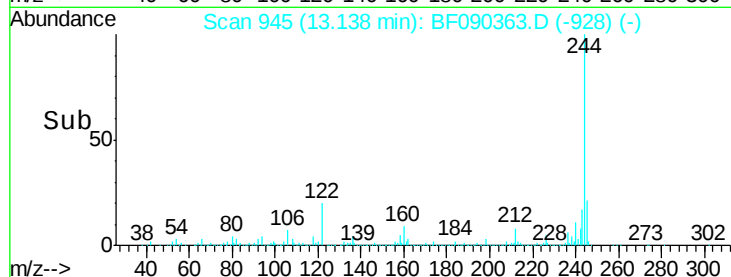
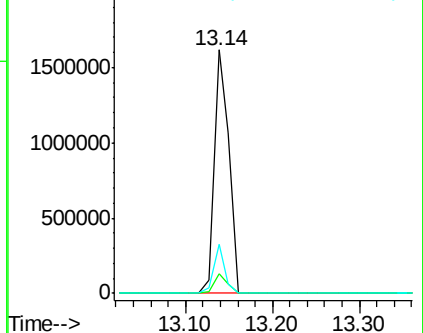
122 20.1 13.3 19.9#



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: 3.72 ng

RT: 14.19 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

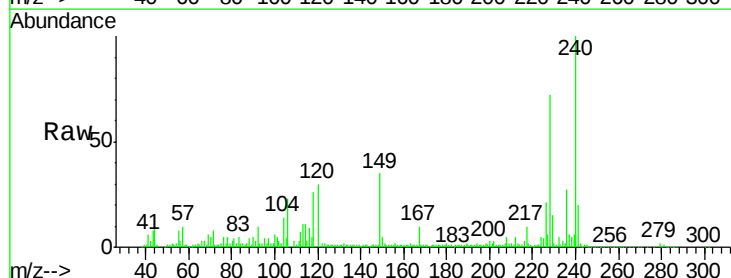
Tgt Ion:228 Resp: 146745

Ion Ratio Lower Upper

228 100

226 29.6 23.6 35.4

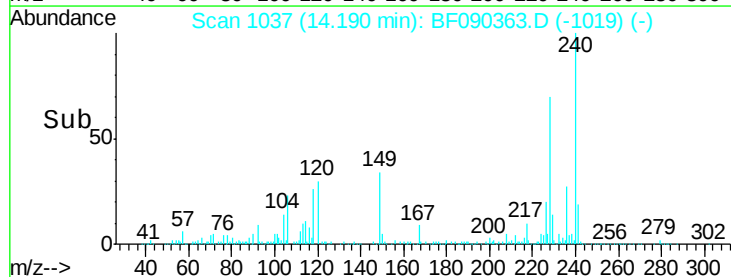
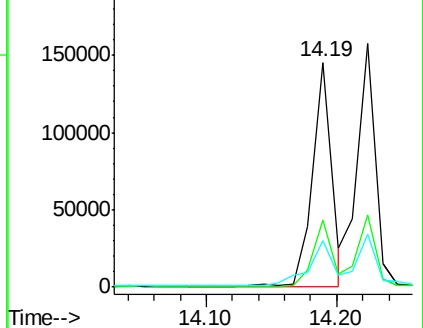
229 20.8 16.6 25.0

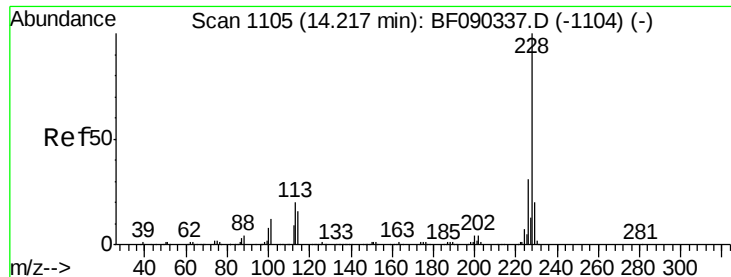


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.26 ng

RT: 14.22 min Scan# 1040

Delta R.T. 0.01 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

Instrument :

BNA\_F

ClientSampled :

PA-2

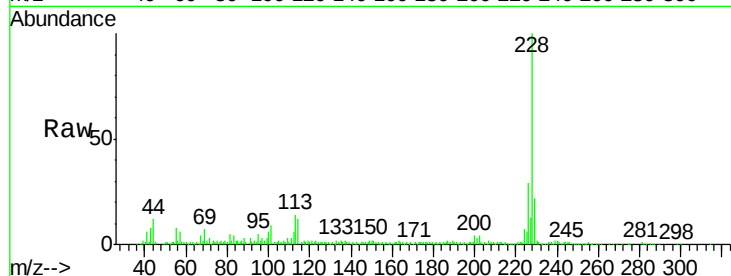
Tgt Ion: 228 Resp: 120362

Ion Ratio Lower Upper

228 100

226 29.4 25.8 38.6

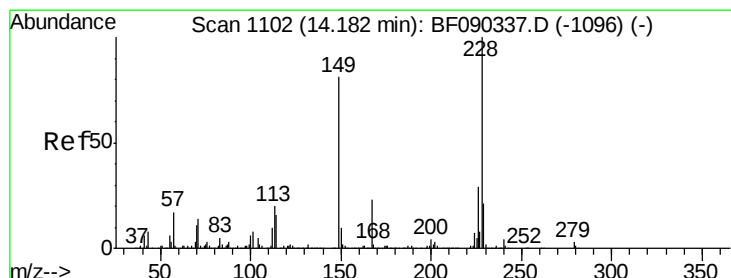
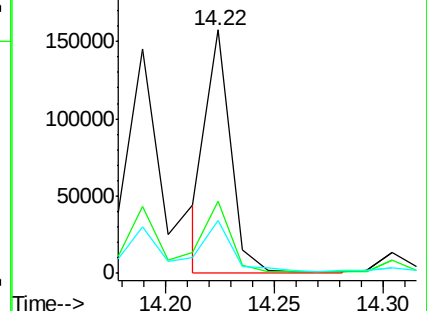
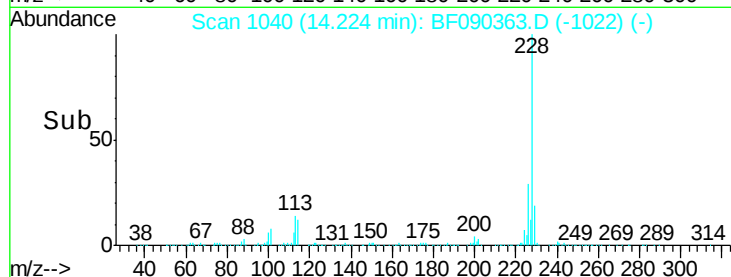
229 21.9 16.9 25.3



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

Bis(2-ethylhexyl)phthalate

Concen: 9.11 ng

RT: 14.18 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF090363.D

Acq: 5 Oct 2016 1:01

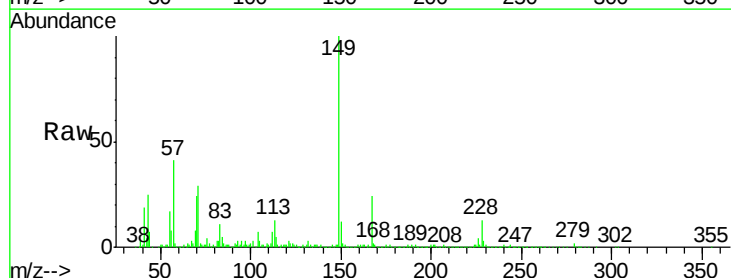
Tgt Ion: 149 Resp: 258761

Ion Ratio Lower Upper

149 100

167 24.1 21.5 32.3

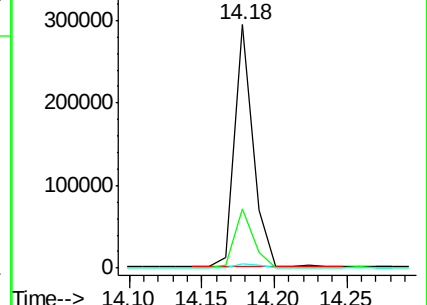
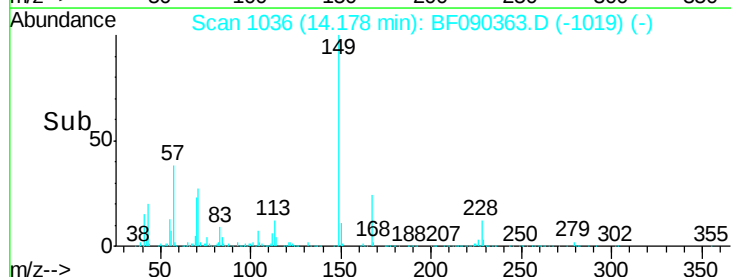
279 1.8 2.6 3.8#

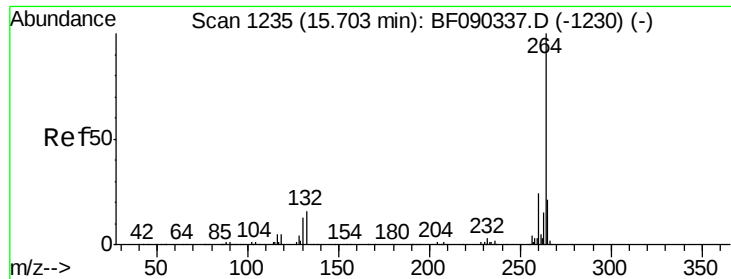


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

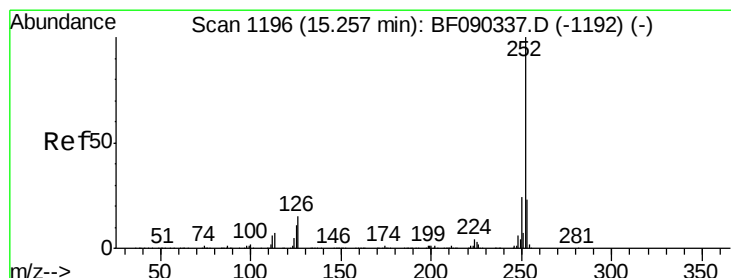
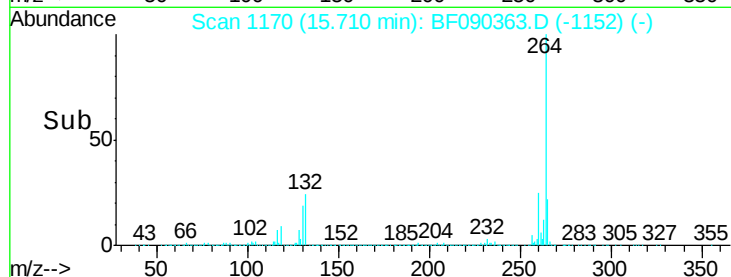
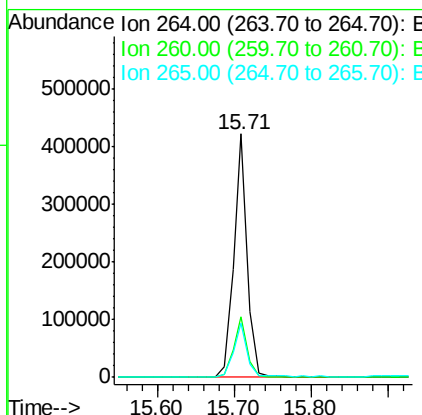
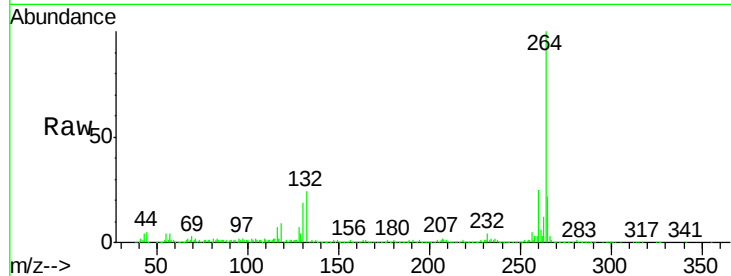




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.71 min Scan# 1170  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

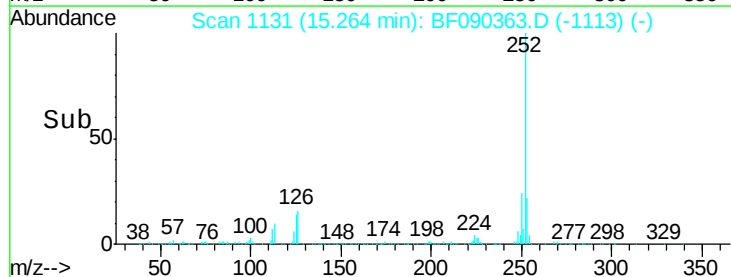
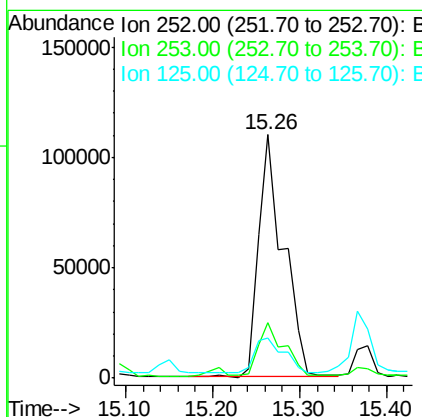
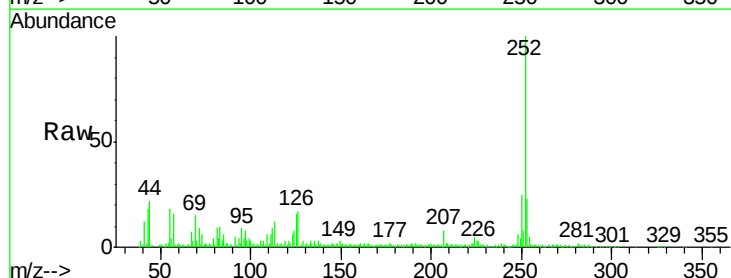
Instrument :  
BNA\_F  
ClientSampled :  
PA-2

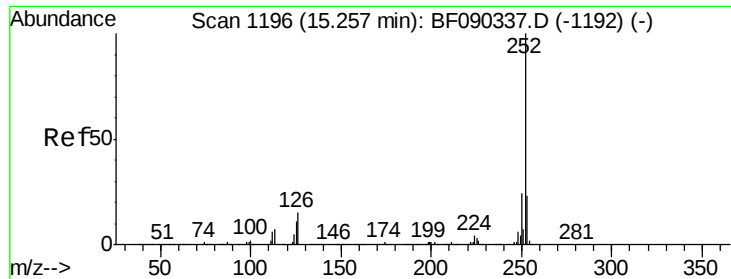
Tgt Ion:264 Resp: 521837  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.3 28.9  
265 22.2 17.4 26.0



#87  
Benzo(b)fluoranthene  
Concen: 7.26 ng  
RT: 15.26 min Scan# 1131  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

Tgt Ion:252 Resp: 218014  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.2 27.2  
125 16.5 7.0 10.4#

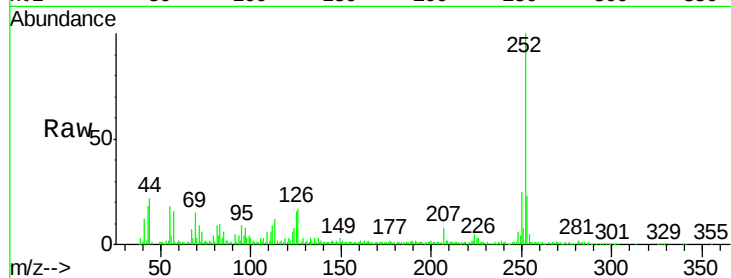




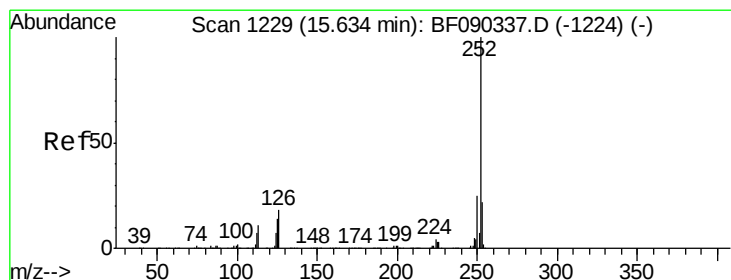
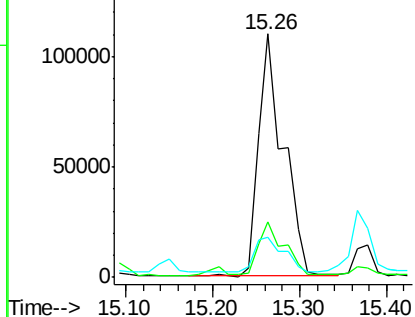
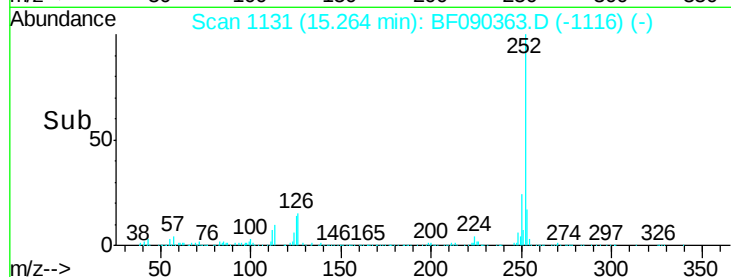
#88  
Benzo(k)fluoranthene  
Concen: 7.61 ng  
RT: 15.26 min Scan# 1131  
Delta R.T. -0.03 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

Instrument :  
BNA\_F  
ClientSampled :  
PA-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.6  | 27.8  |
| 125     | 16.5  | 11.7  | 17.5  |

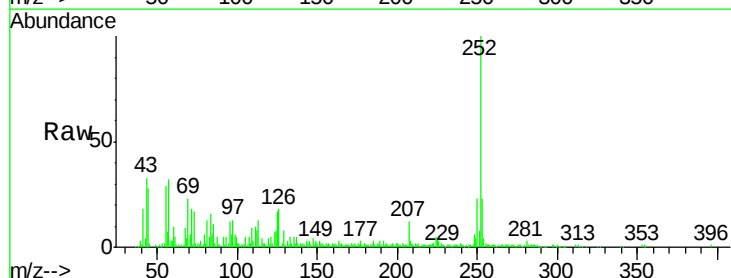


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(a)pyrene  
Concen: 3.62 ng  
RT: 15.64 min Scan# 1164  
Delta R.T. 0.01 min  
Lab File: BF090363.D  
Acq: 5 Oct 2016 1:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.4  |
| 125     | 17.3  | 9.8   | 14.8# |



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

