

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102716\  
 Data File : BF090897.D  
 Acq On : 28 Oct 2016 5:13  
 Operator : UM/SJ  
 Sample : H5423-07 2X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

Quant Time: Oct 28 05:41:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 27 18:46:43 2016  
 Response via : Initial Calibration

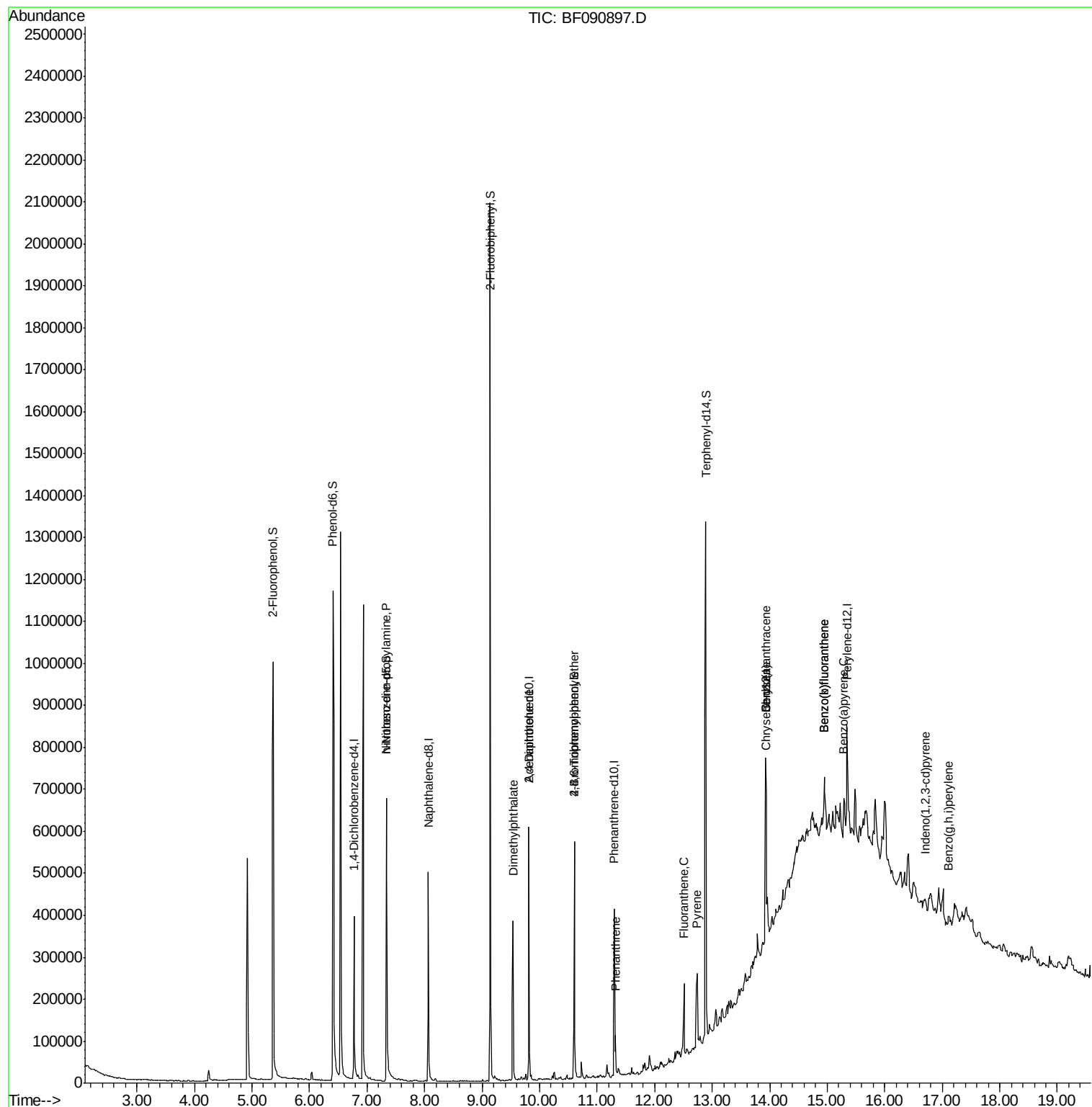
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 67431    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.06  | 136  | 265296   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.81  | 164  | 115289   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.30 | 188  | 160672   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.94 | 240  | 166522   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.35 | 264  | 127813   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.37  | 112  | 432261   | 112.08 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.41  | 99   | 639617   | 122.93 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 369196   | 91.10  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.60 | 330  | 66387    | 56.03  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.14  | 172  | 599682   | 91.34  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.89 | 244  | 477433   | 72.23  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 48624    | 16.16  | ng    | # 56     |
| 49) Dimethylphthalate          | 9.54  | 163  | 188939   | 24.53  | ng    | # 97     |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 14711    | 6.96   | ng    | # 31     |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 4244     | 2.41   | ng    | # 1      |
| 70) Phenanthrene               | 11.32 | 178  | 33451    | 4.09   | ng    | 97       |
| 74) Fluoranthene               | 12.51 | 202  | 77160    | 8.61   | ng    | 92       |
| 77) Pyrene                     | 12.74 | 202  | 98580    | 9.35   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.93 | 228  | 66062    | 7.48   | ng    | # 90     |
| 82) Chrysene                   | 13.93 | 228  | 66062    | 7.39   | ng    | # 91     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.71 | 276  | 17672    | 2.23   | ng    | # 81     |
| 87) Benzo(b)fluoranthene       | 14.95 | 252  | 66480    | 7.74   | ng    | # 83     |
| 88) Benzo(k)fluoranthene       | 14.95 | 252  | 66480    | 9.79   | ng    | # 81     |
| 89) Benzo(a)pyrene             | 15.29 | 252  | 38039    | 5.15   | ng    | # 93     |
| 91) Benzo(g,h,i)perylene       | 17.12 | 276  | 19353    | 3.29   | ng    | # 80     |

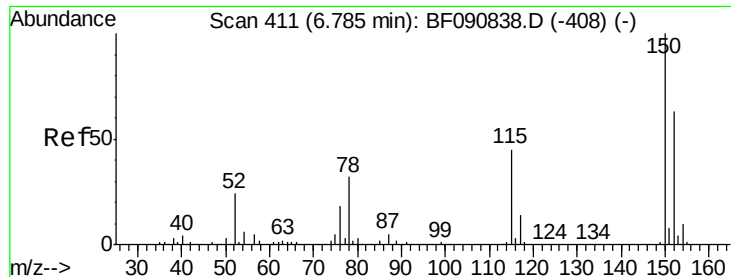
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102716\  
Data File : BF090897.D  
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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
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SB-4COMP(0-16FEET)

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QLast Update : Thu Oct 27 18:46:43 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

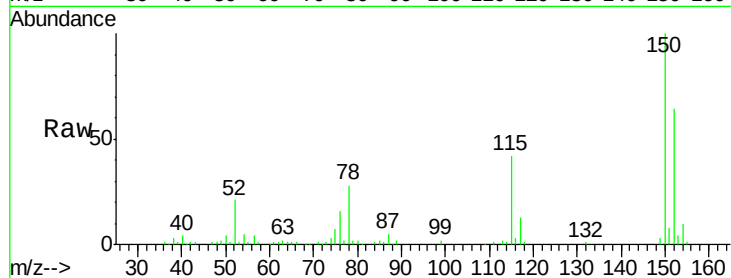
Tgt Ion:152 Resp: 67431

Ion Ratio Lower Upper

152 100

150 155.9 124.7 187.1

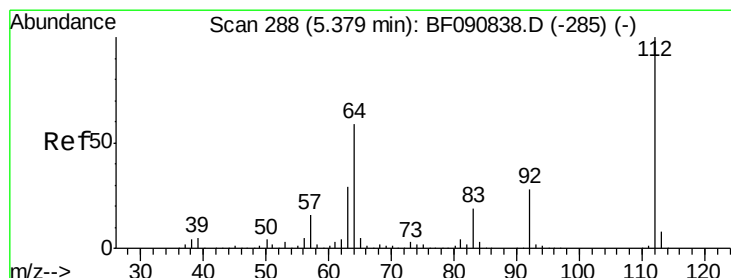
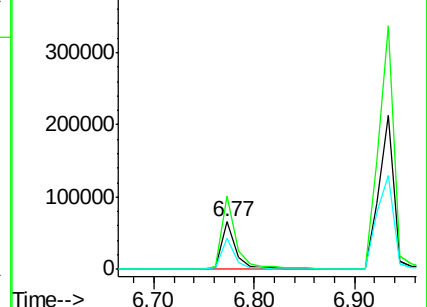
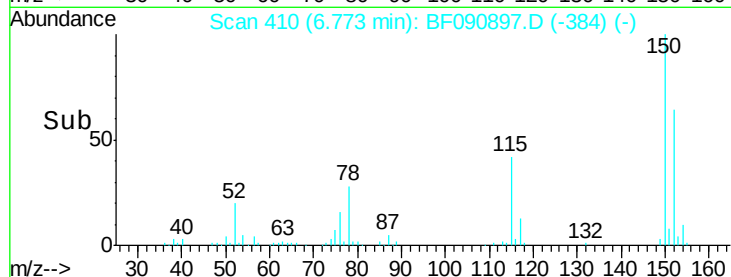
115 64.8 39.0 58.4#



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: 112.08 ng

RT: 5.37 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

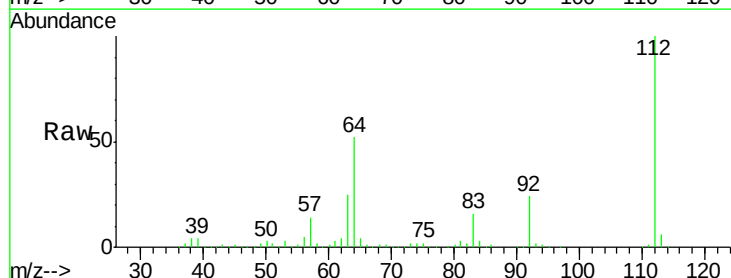
Tgt Ion:112 Resp: 432261

Ion Ratio Lower Upper

112 100

64 51.6 39.7 59.5

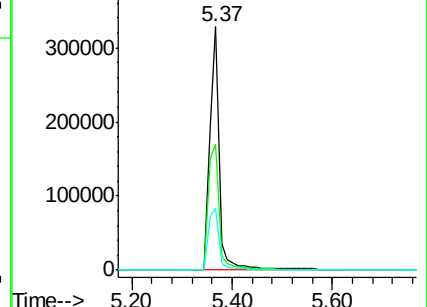
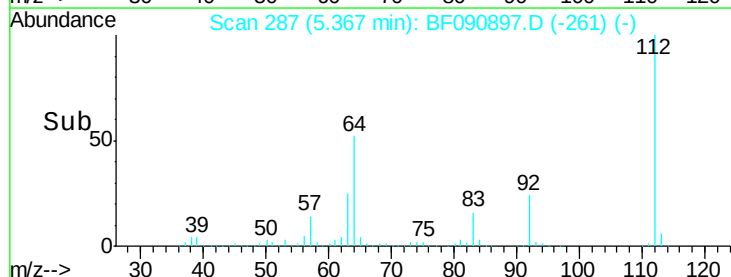
63 25.3 17.4 26.0

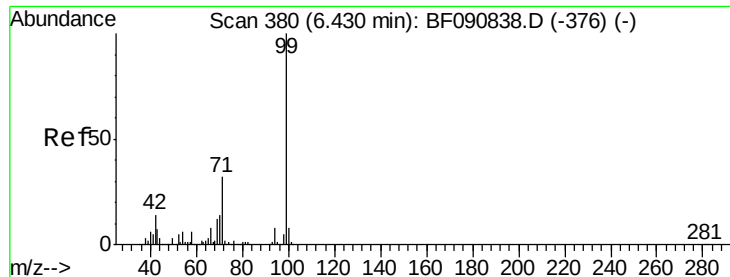


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 122.93 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

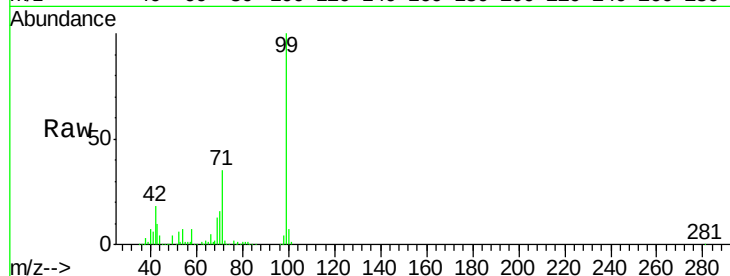
Tgt Ion: 99 Resp: 639617

Ion Ratio Lower Upper

99 100

42 17.7 13.7 20.5

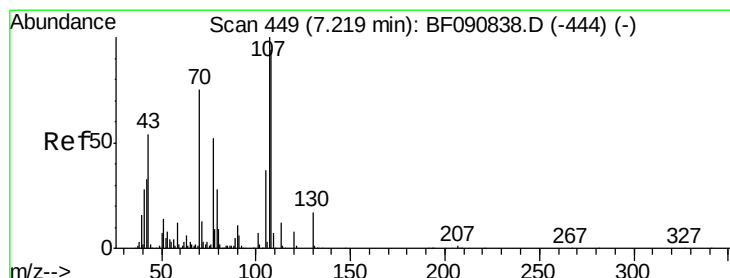
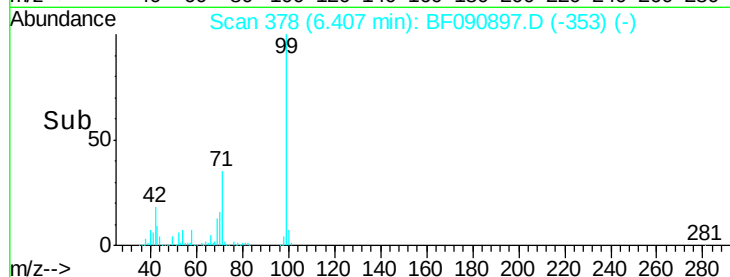
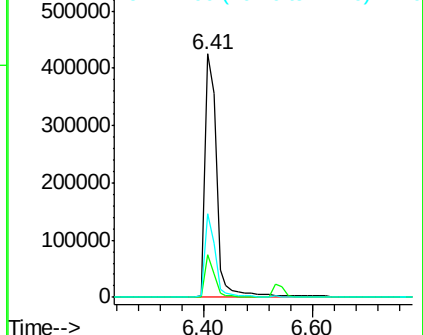
71 34.5 14.2 21.2#



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.16 ng

RT: 7.33 min Scan# 459

Delta R.T. 0.13 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Tgt Ion: 70 Resp: 48624

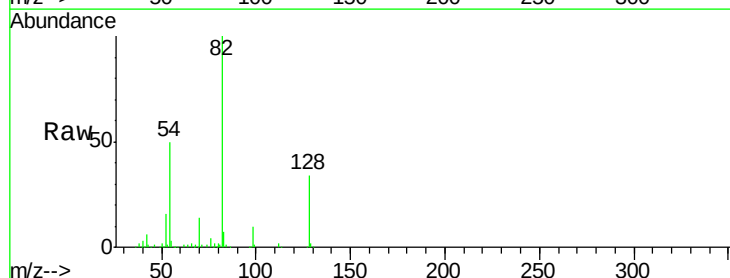
Ion Ratio Lower Upper

70 100

42 43.9 63.8 95.6#

101 0.0 9.2 13.8#

130 2.1 27.3 40.9#

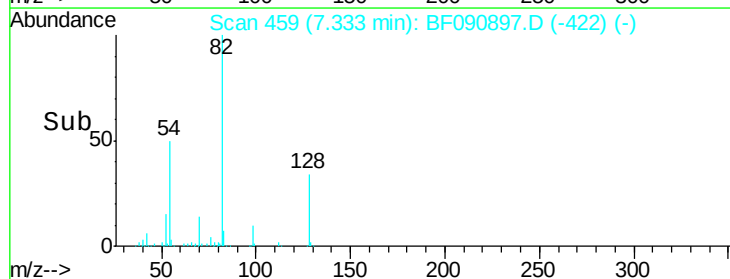
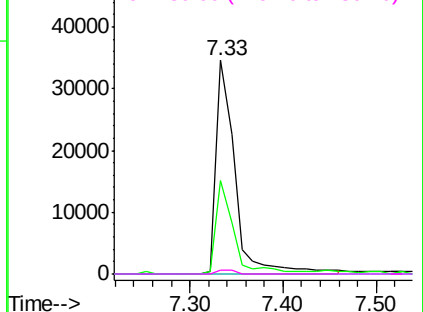


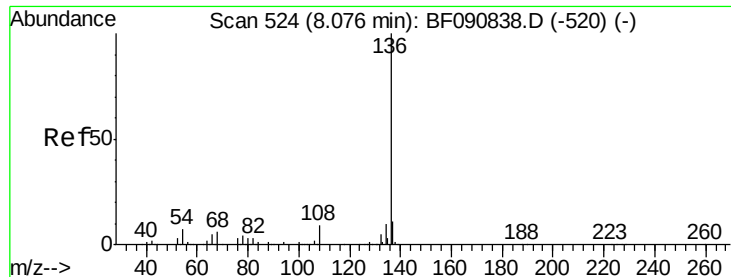
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. 0.00 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

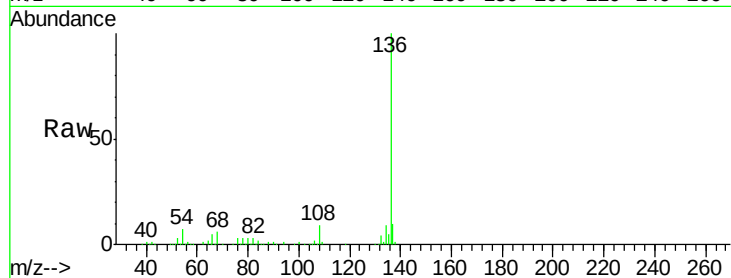
Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 136  | Resp: | 265296 |
| Ion Ratio |      | Lower | Upper  |
| 136       | 100  |       |        |
| 137       | 10.4 | 9.0   | 13.6   |
| 54        | 6.7  | 8.2   | 12.2#  |
| 68        | 6.2  | 5.8   | 8.6    |

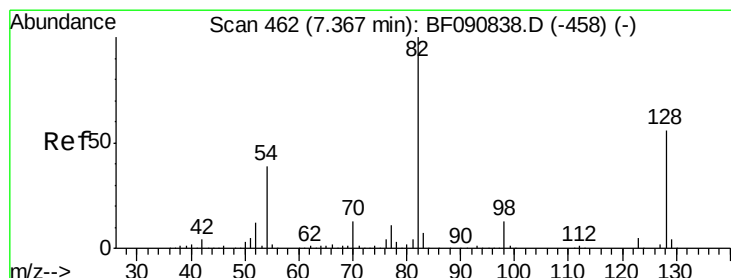
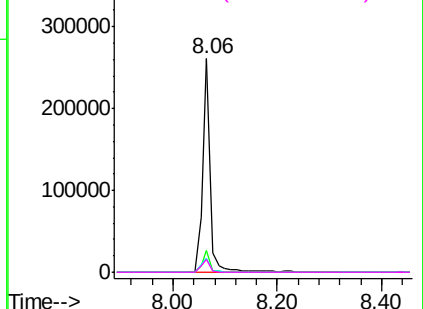
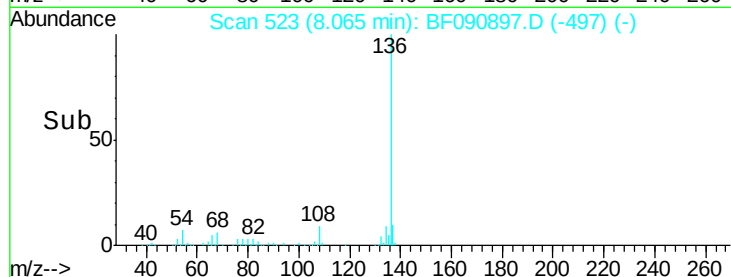


Abundance Ion 136.00 (135.70 to 136.70): E

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: 91.10 ng

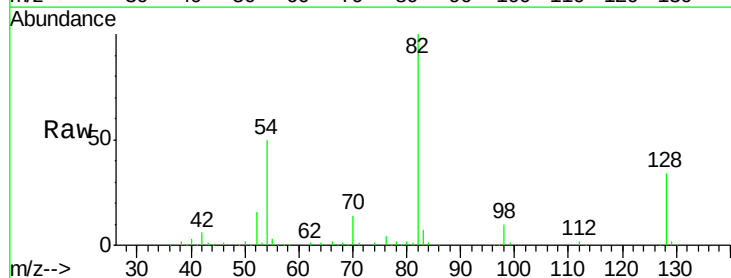
RT: 7.33 min Scan# 459

Delta R.T. -0.02 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

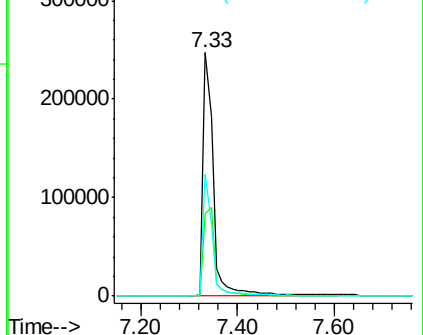
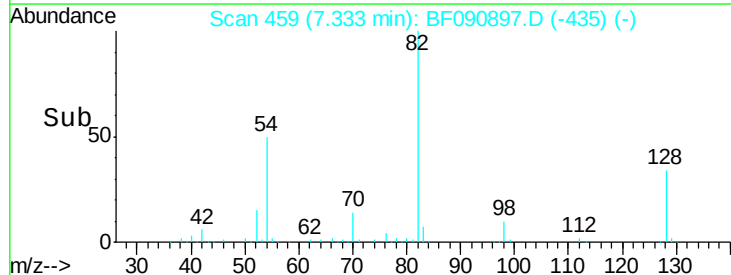
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 82   | Resp: | 369196 |
| Ion Ratio |      | Lower | Upper  |
| 82        | 100  |       |        |
| 128       | 33.7 | 51.0  | 76.6#  |
| 54        | 50.4 | 47.5  | 71.3   |

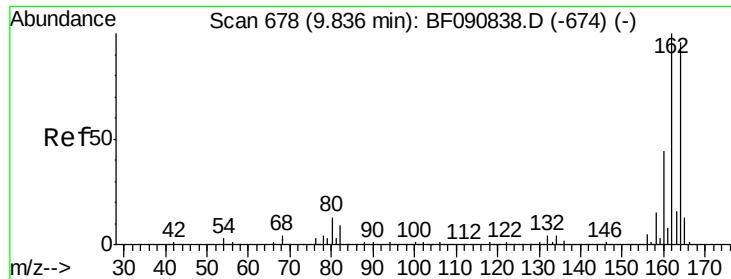


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

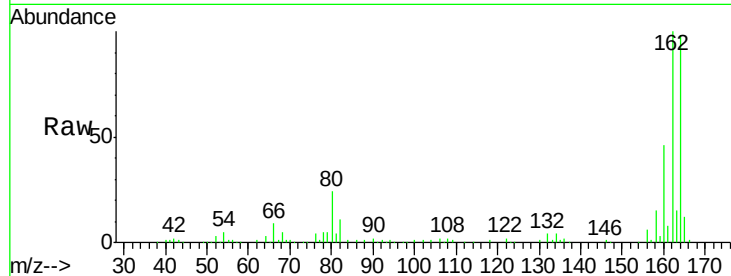




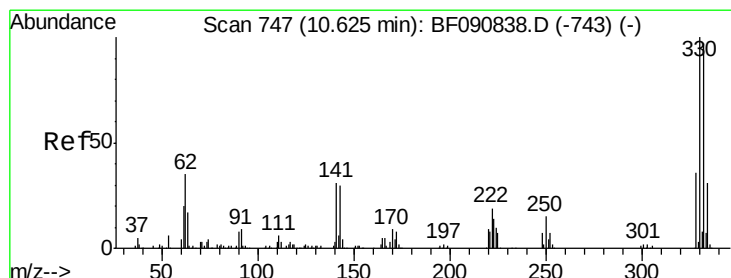
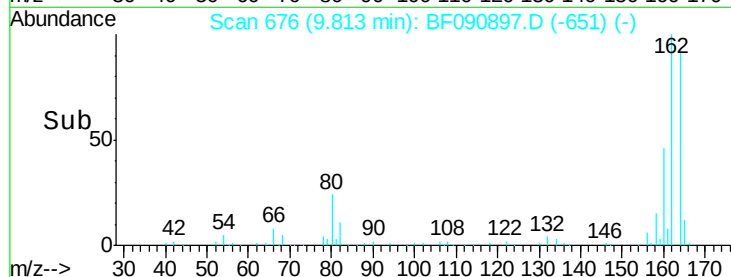
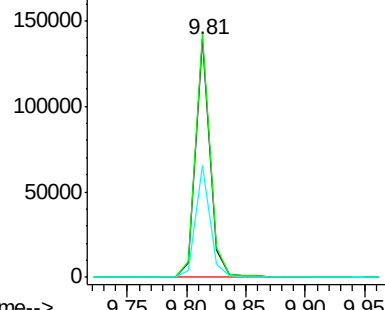
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.81 min Scan# 676  
 Delta R.T. -0.01 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

Tgt Ion:164 Resp: 115289  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 75.2 112.8  
 160 46.8 31.5 47.3

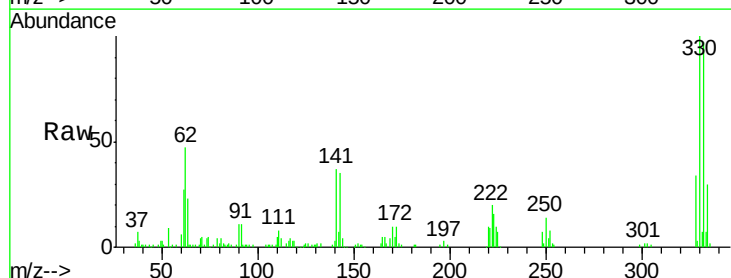


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

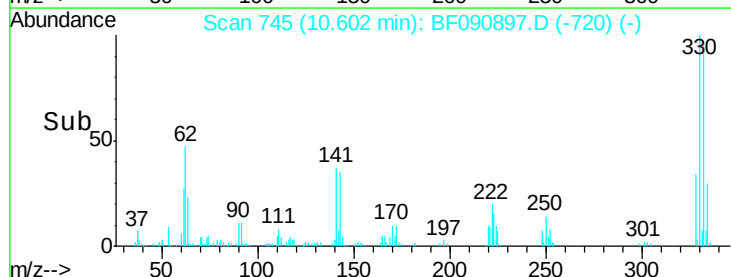
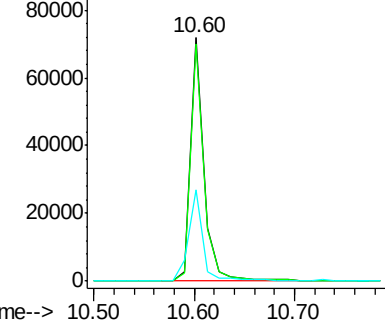


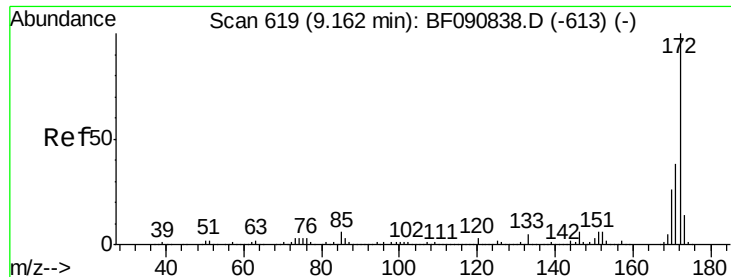
#41  
 2,4,6-Tribromophenol  
 Concen: 56.03 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. -0.01 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

Tgt Ion:330 Resp: 66387  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 76.6 114.8  
 141 40.6 29.7 44.5



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

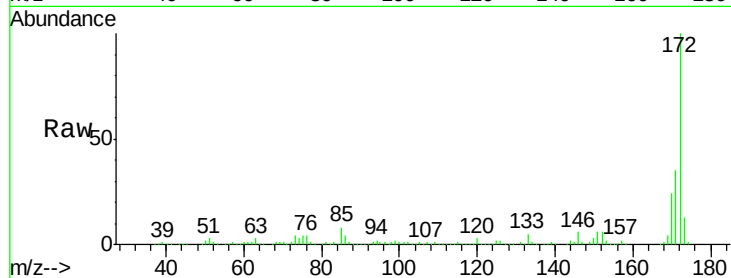




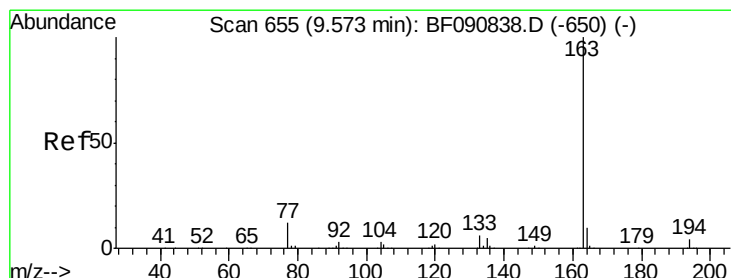
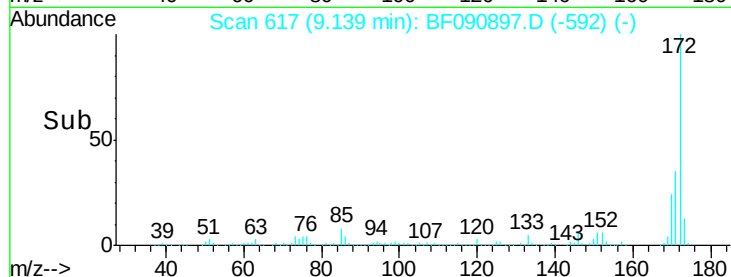
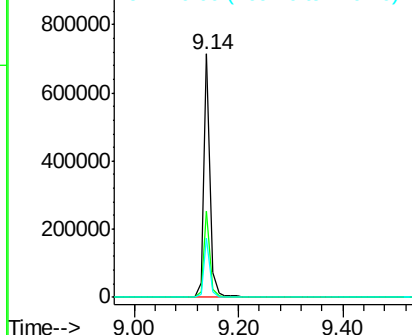
#44  
2-Fluorobiphenyl  
Concen: 91.34 ng  
RT: 9.14 min Scan# 617  
Delta R.T. -0.01 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

Tgt Ion:172 Resp: 599682  
Ion Ratio Lower Upper  
172 100  
171 35.4 26.1 39.1  
170 24.4 17.4 26.2

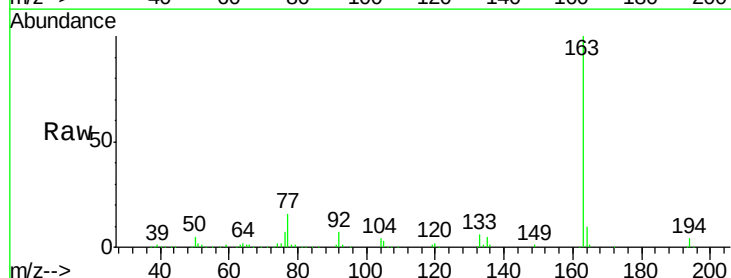


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

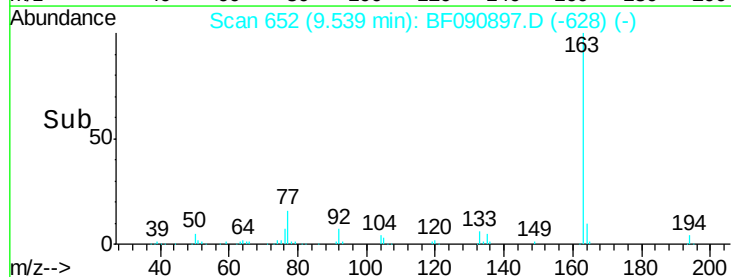
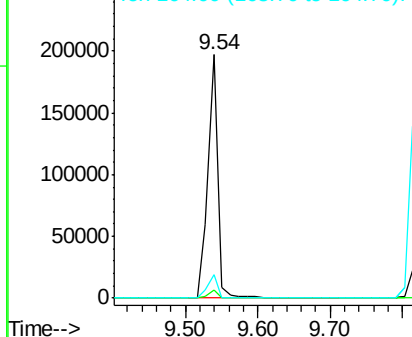


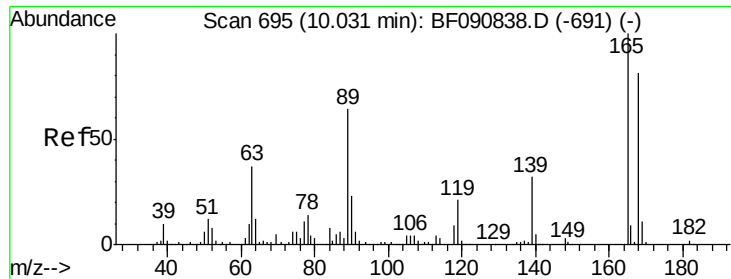
#49  
Dimethylphthalate  
Concen: 24.53 ng  
RT: 9.54 min Scan# 652  
Delta R.T. -0.02 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

Tgt Ion:163 Resp: 188939  
Ion Ratio Lower Upper  
163 100  
194 3.5 4.4 6.6#  
164 9.6 8.3 12.5



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

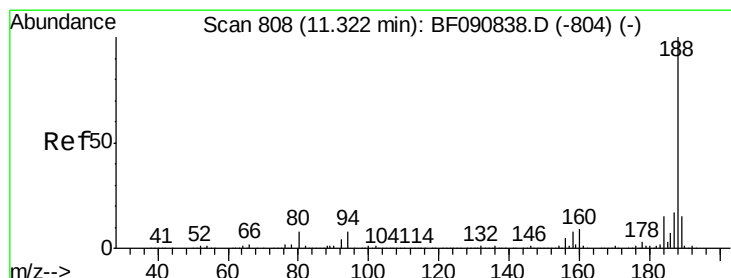
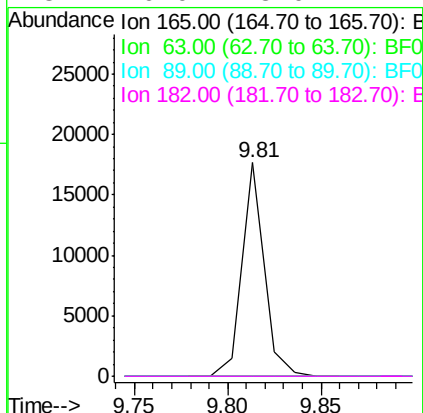
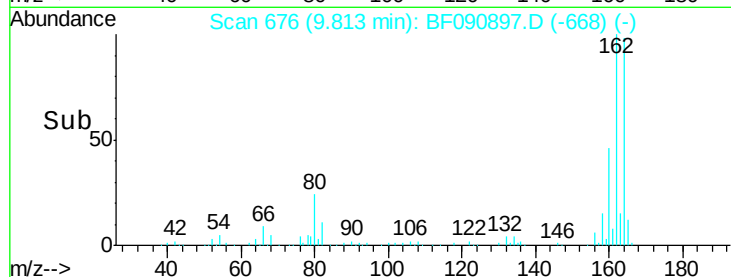
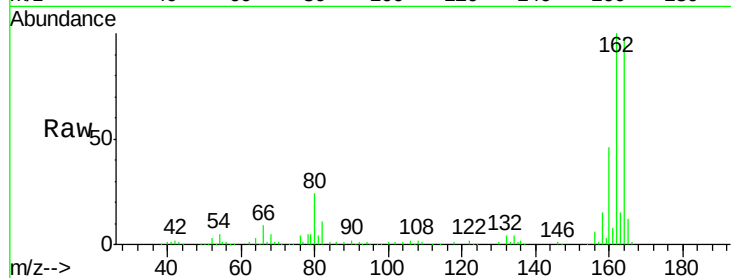




#56  
 2,4-Dinitrotoluene  
 Concen: 6.96 ng  
 RT: 9.81 min Scan# 676  
 Delta R.T. -0.21 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

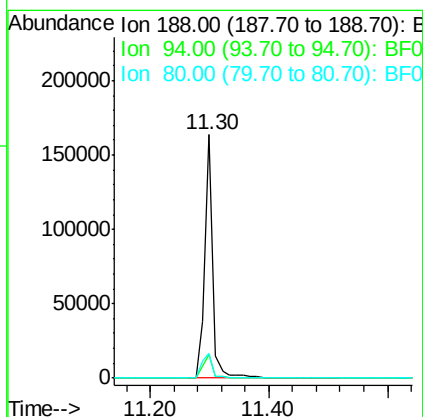
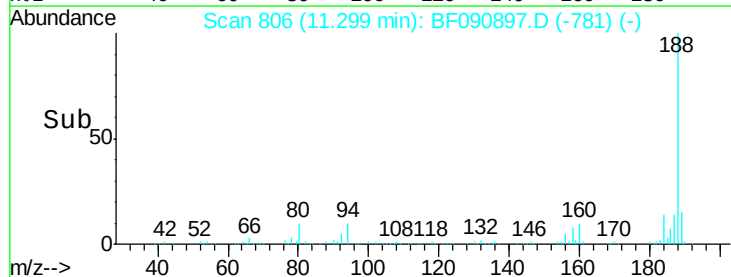
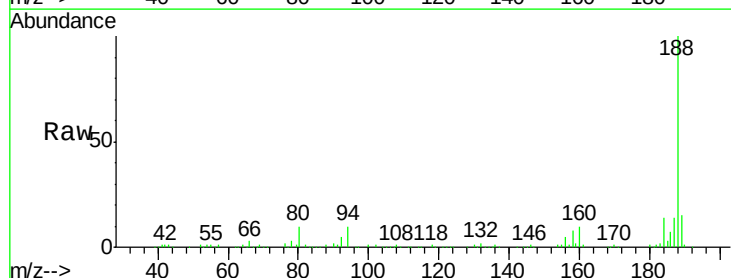
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 14711 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 29.8  | 44.6# |
| 89       | 0.0   | 44.5  | 66.7# |
| 182      | 0.0   | 3.0   | 4.4#  |

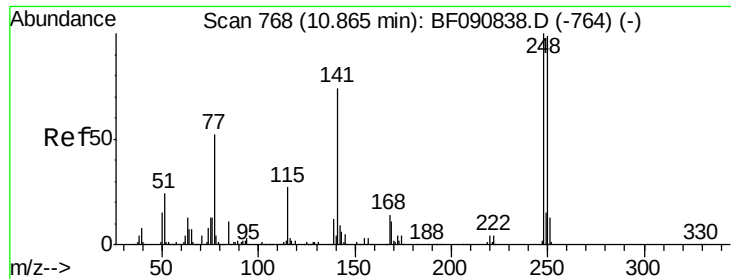


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.30 min Scan# 806  
 Delta R.T. -0.01 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 160672 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.6   | 11.1  | 16.7#  |
| 80       | 10.3  | 11.0  | 16.4#  |



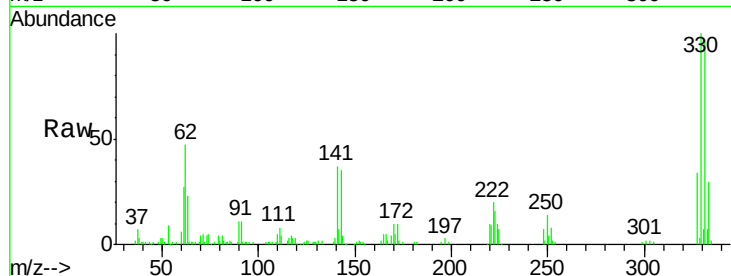




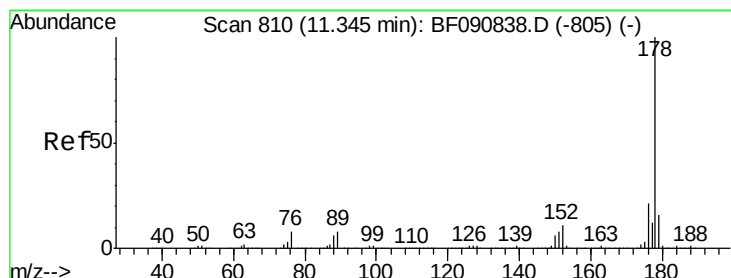
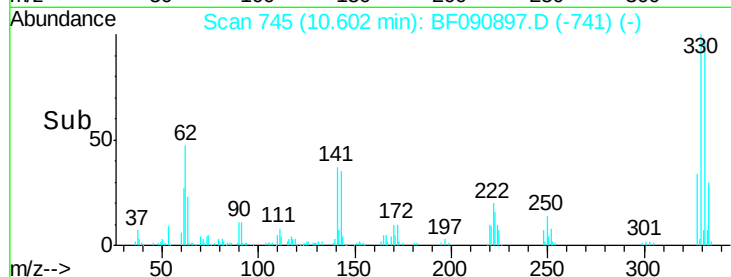
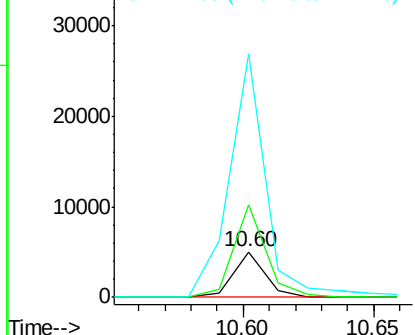
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.41 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. -0.25 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4COMP(0-16FEET)

Tgt Ion:248 Resp: 4244  
 Ion Ratio Lower Upper  
 248 100  
 250 204.5 78.5 117.7#  
 141 534.6 59.0 88.6#

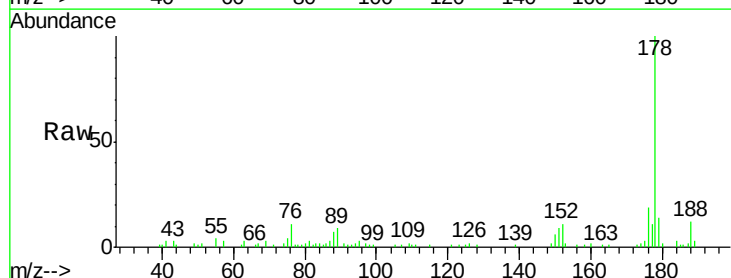


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

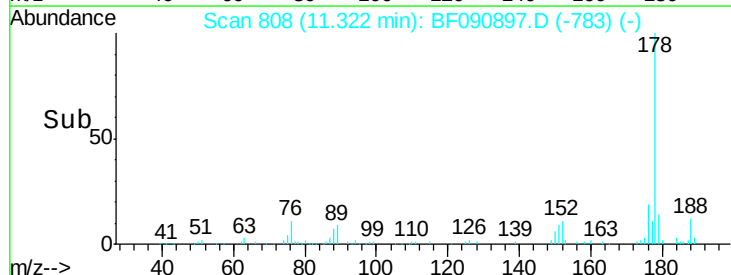
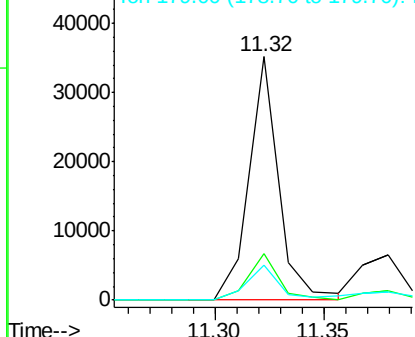


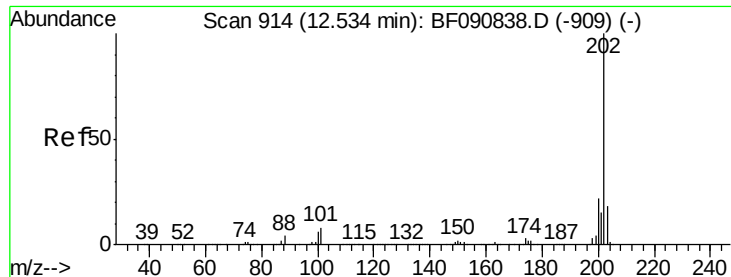
#70  
 Phenanthrene  
 Concen: 4.09 ng  
 RT: 11.32 min Scan# 808  
 Delta R.T. -0.01 min  
 Lab File: BF090897.D  
 Acq: 28 Oct 2016 5:13

Tgt Ion:178 Resp: 33451  
 Ion Ratio Lower Upper  
 178 100  
 176 19.3 13.8 20.8  
 179 14.5 12.2 18.2



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: 8.61 ng

RT: 12.51 min Scan# 912

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

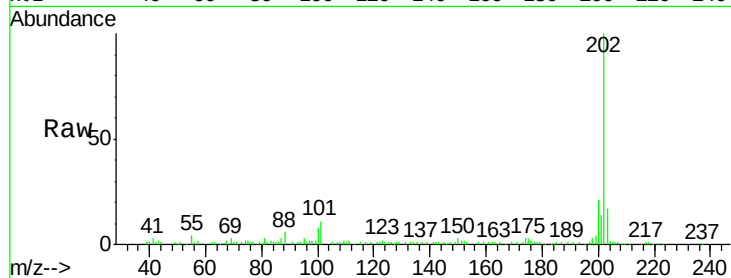
Tgt Ion:202 Resp: 77160

Ion Ratio Lower Upper

202 100

101 11.5 0.0 38.3

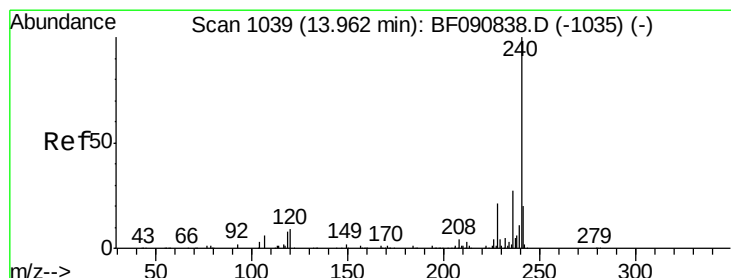
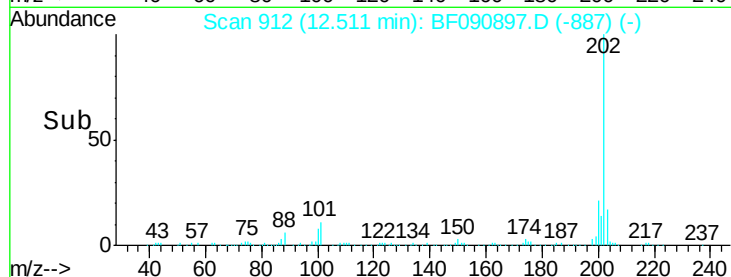
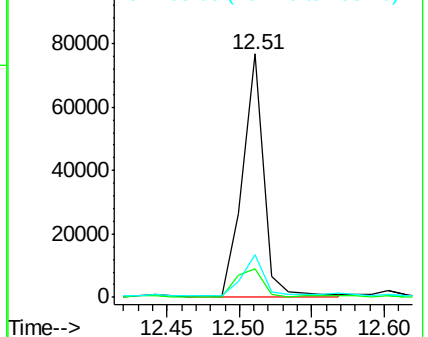
203 17.5 0.0 37.3



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: 13.94 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

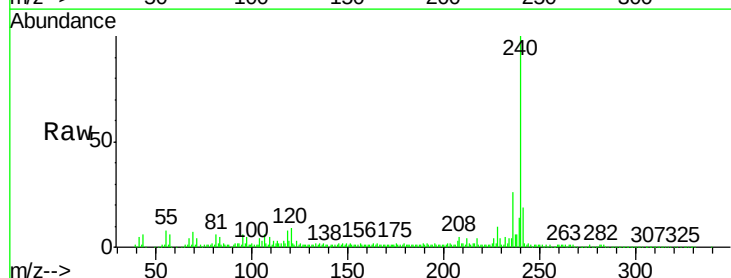
Tgt Ion:240 Resp: 166522

Ion Ratio Lower Upper

240 100

120 9.4 16.2 24.2#

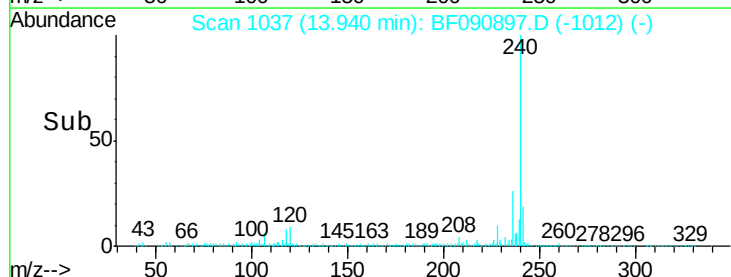
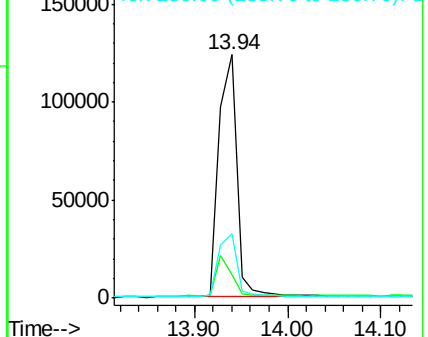
236 26.5 18.4 27.6

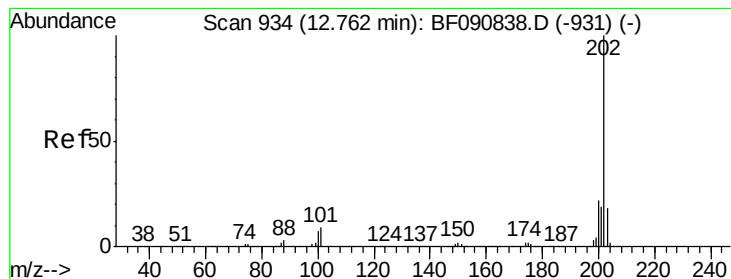


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 9.35 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

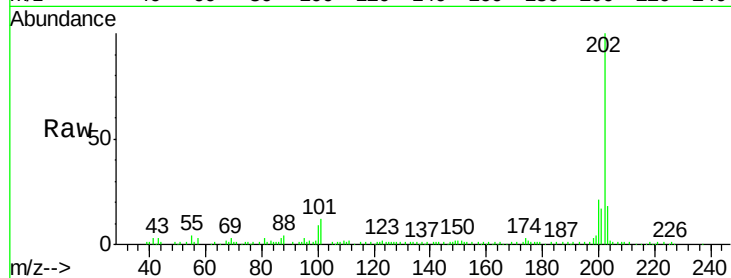
Tgt Ion:202 Resp: 98580

Ion Ratio Lower Upper

202 100

200 21.0 15.0 22.4

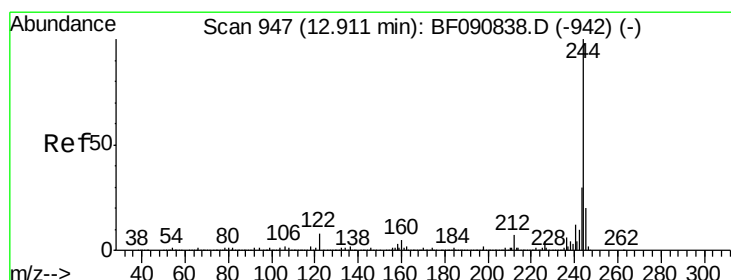
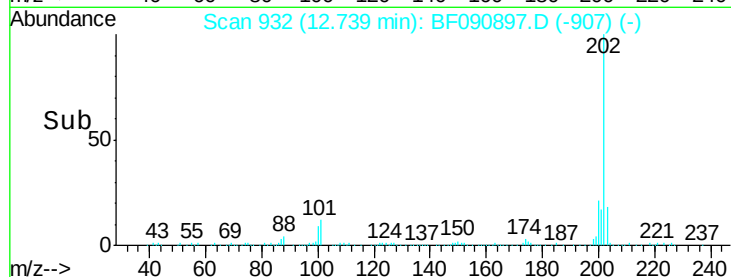
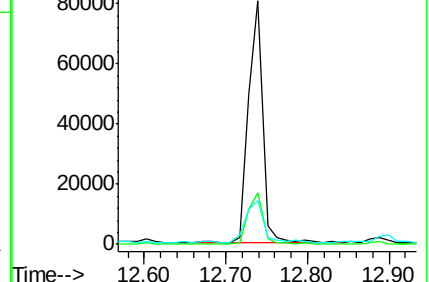
203 18.1 14.1 21.1



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: 72.23 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

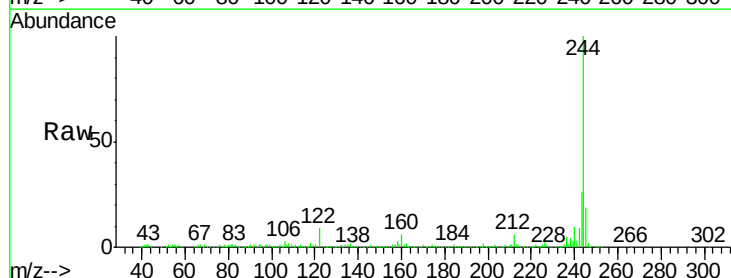
Tgt Ion:244 Resp: 477433

Ion Ratio Lower Upper

244 100

212 6.3 4.3 6.5

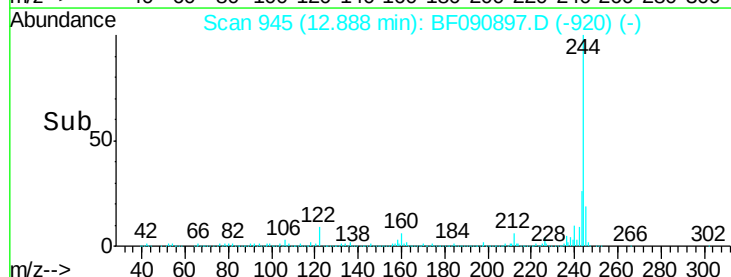
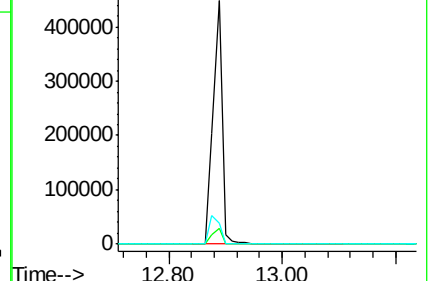
122 8.8 17.4 26.2#

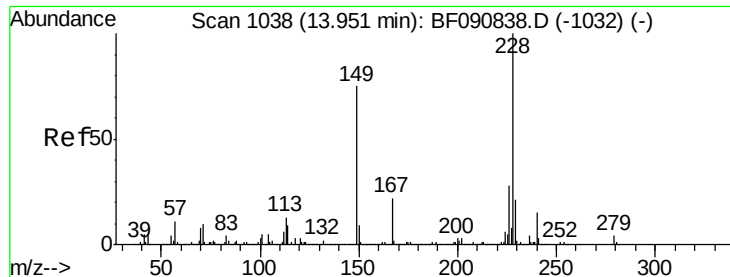


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

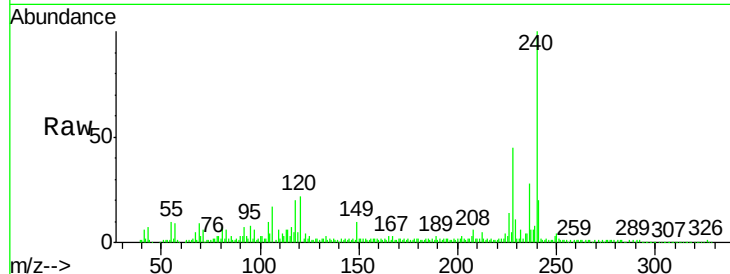




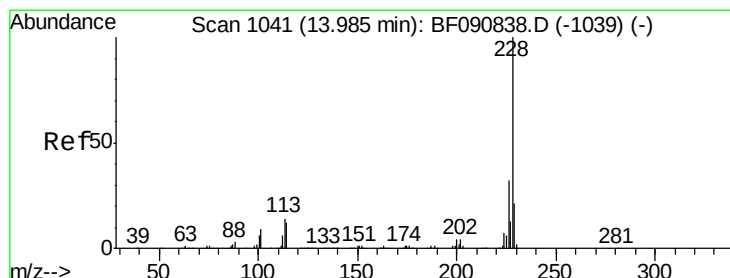
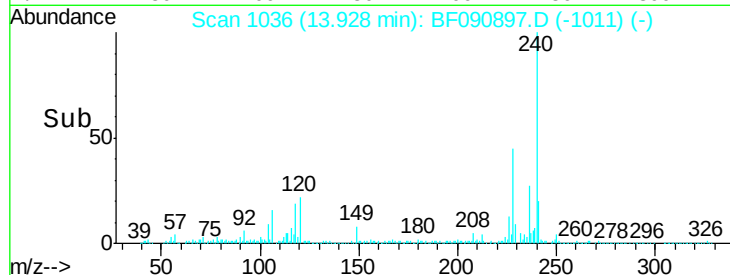
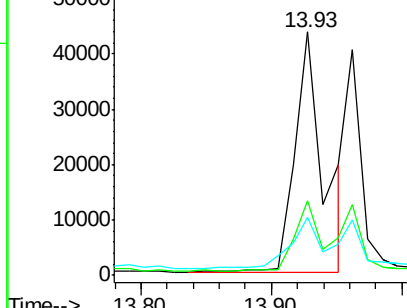
#80  
Benzo(a)anthracene  
Concen: 7.48 ng  
RT: 13.93 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 20.0  | 30.0# |
| 229     | 23.6  | 15.4  | 23.2# |

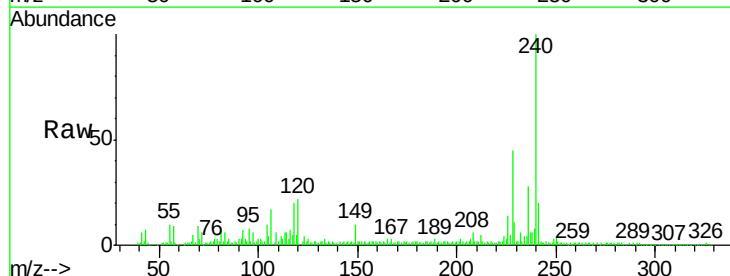


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

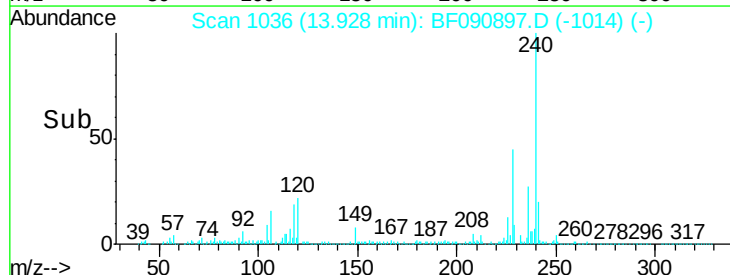
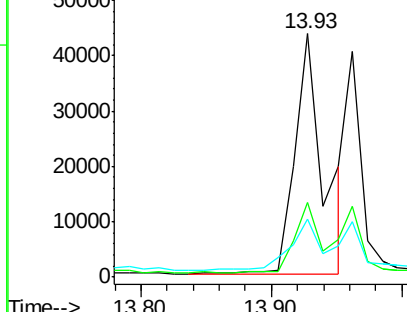


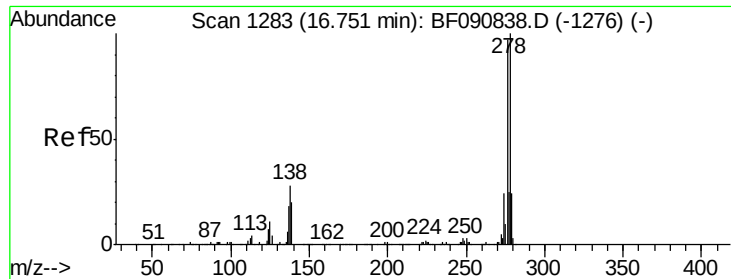
#82  
Chrysene  
Concen: 7.39 ng  
RT: 13.93 min Scan# 1036  
Delta R.T. -0.05 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 21.0  | 31.4  |
| 229     | 23.6  | 15.6  | 23.4# |



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

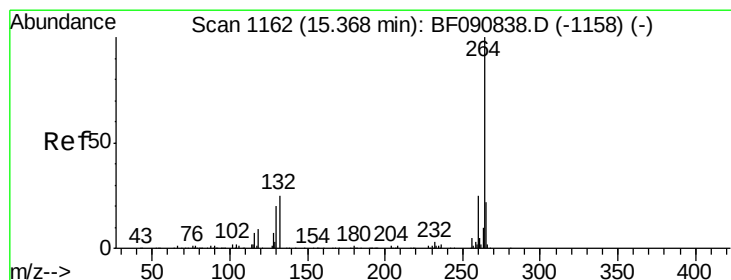
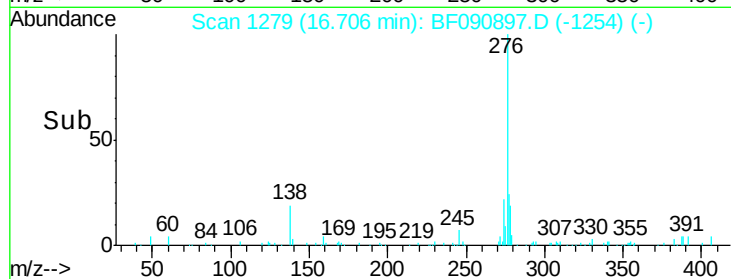
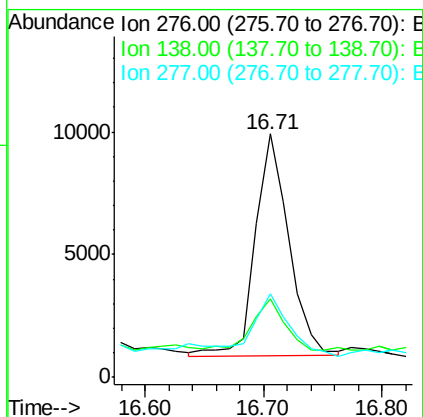
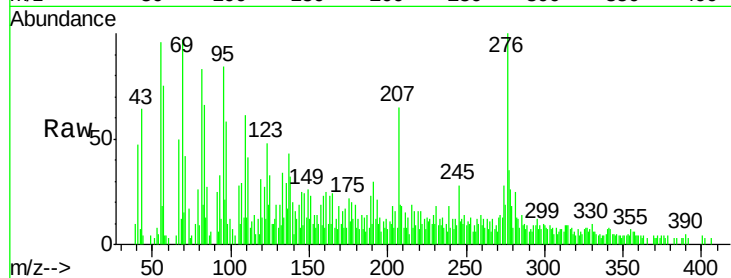




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.23 ng  
RT: 16.71 min Scan# 1279  
Delta R.T. -0.01 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

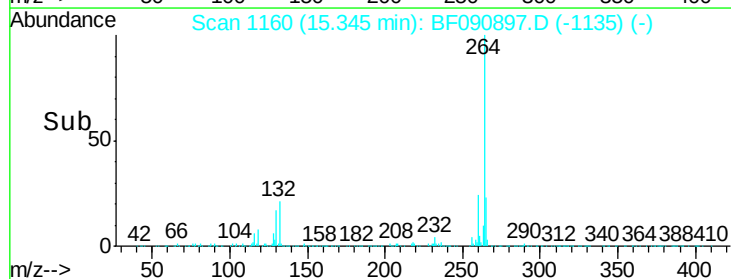
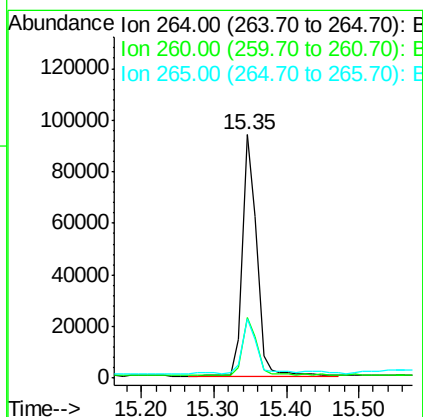
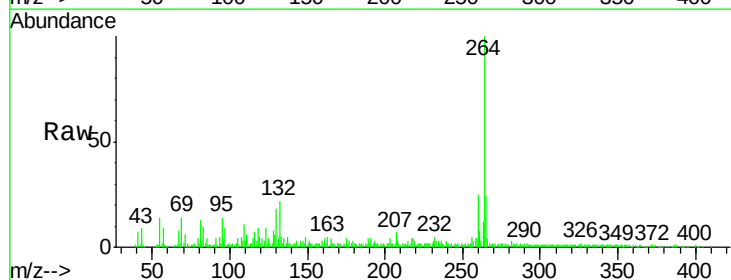
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4COMP(0-16FEET)

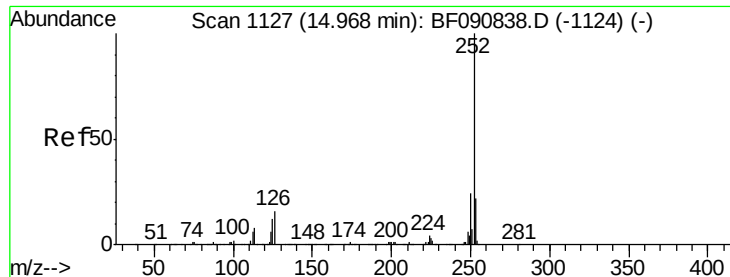
Tgt Ion:276 Resp: 17672  
Ion Ratio Lower Upper  
276 100  
138 23.4 25.7 38.5#  
277 30.7 15.6 23.4#



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.35 min Scan# 1160  
Delta R.T. -0.01 min  
Lab File: BF090897.D  
Acq: 28 Oct 2016 5:13

Tgt Ion:264 Resp: 127813  
Ion Ratio Lower Upper  
264 100  
260 25.0 16.7 25.1  
265 24.3 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 7.74 ng

RT: 14.95 min Scan# 1125

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

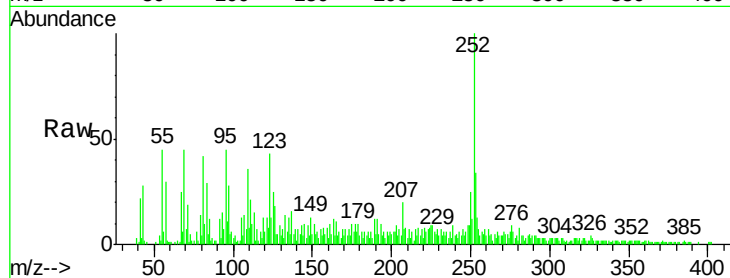
Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

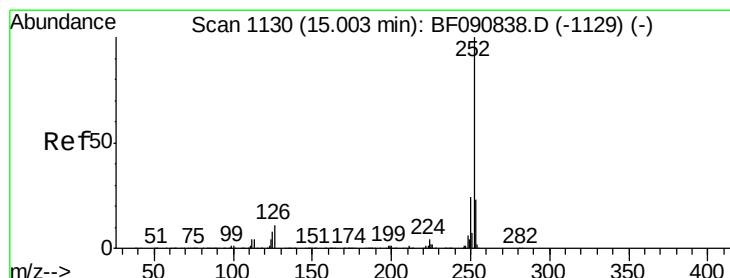
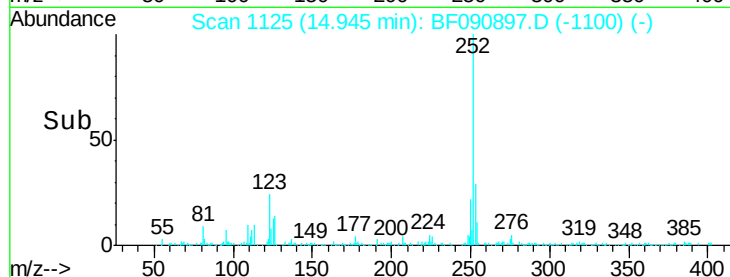
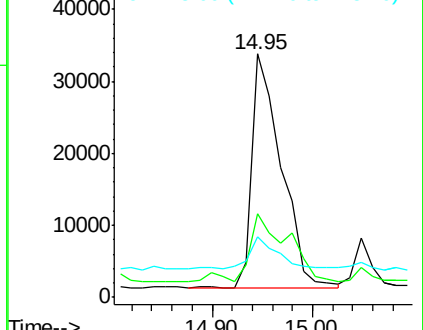
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 66480 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.3  | 17.5  | 26.3# |
| 125       | 24.7  | 17.1  | 25.7  |



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



#88

Benzo(k)fluoranthene

Concen: 9.79 ng

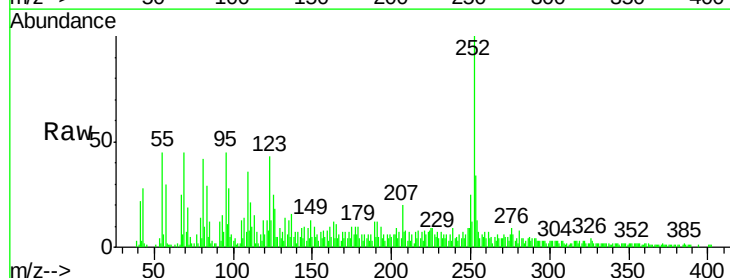
RT: 14.95 min Scan# 1125

Delta R.T. -0.05 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

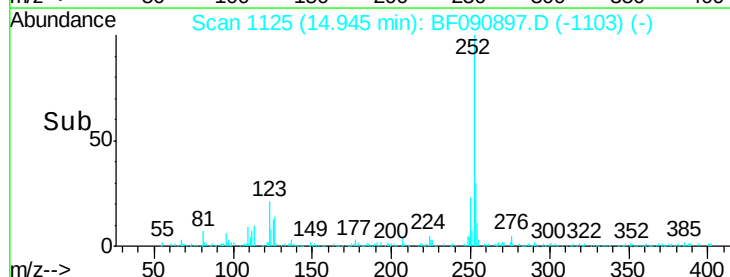
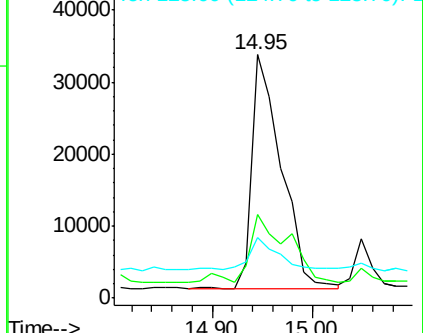
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 66480 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.3  | 17.0  | 25.4# |
| 125       | 24.7  | 16.0  | 24.0# |

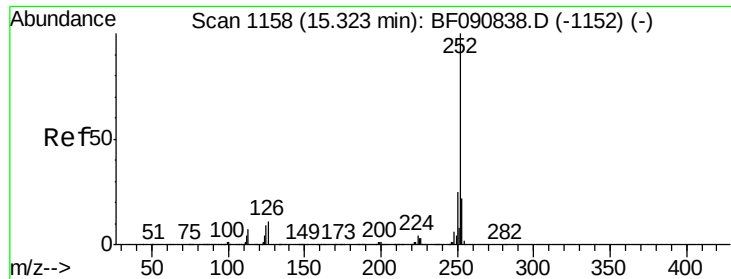


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 5.15 ng

RT: 15.29 min Scan# 1155

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

Instrument :

BNA\_F

ClientSampleId :

SB-4COMP(0-16FEET)

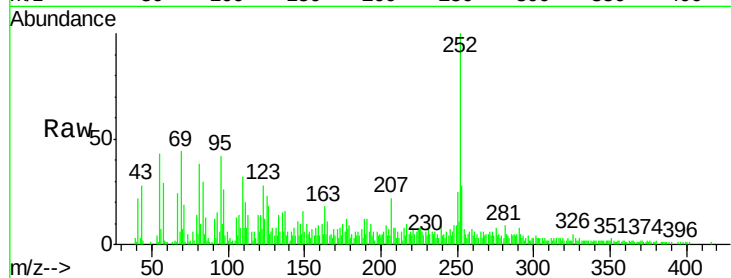
Tgt Ion: 252 Resp: 38039

Ion Ratio Lower Upper

252 100

253 28.1 17.2 25.8#

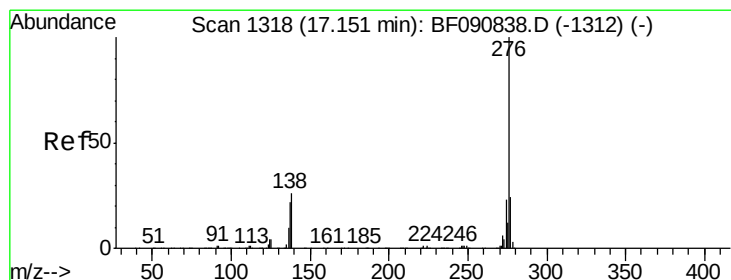
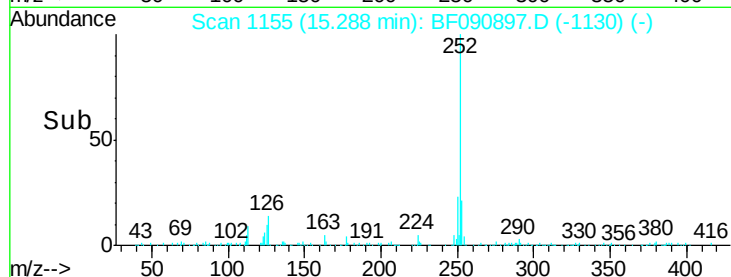
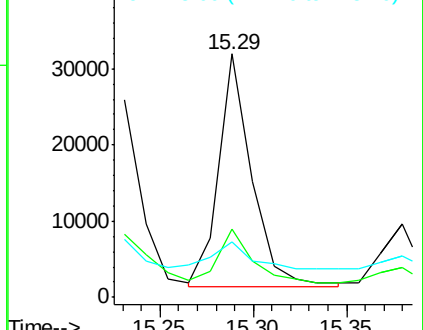
125 22.7 18.0 27.0



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



#91

Benzo(g,h,i)perylene

Concen: 3.29 ng

RT: 17.12 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF090897.D

Acq: 28 Oct 2016 5:13

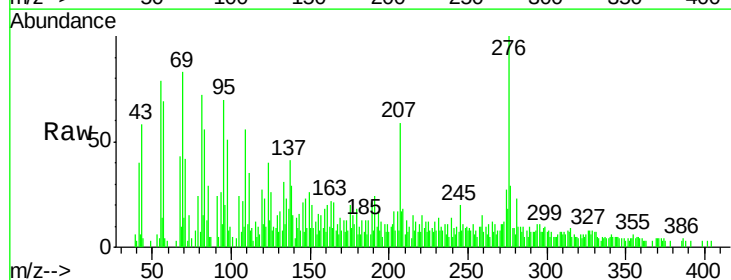
Tgt Ion: 276 Resp: 19353

Ion Ratio Lower Upper

276 100

277 29.0 17.8 26.6#

138 28.7 34.6 51.8#



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

