

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102516\  
 Data File : BF090822.D  
 Acq On : 25 Oct 2016 22:01  
 Operator : UM/SJ  
 Sample : H5394-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SIDEWELL-WEST

Quant Time: Oct 26 00:57:31 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 25 18:56:36 2016  
 Response via : Initial Calibration

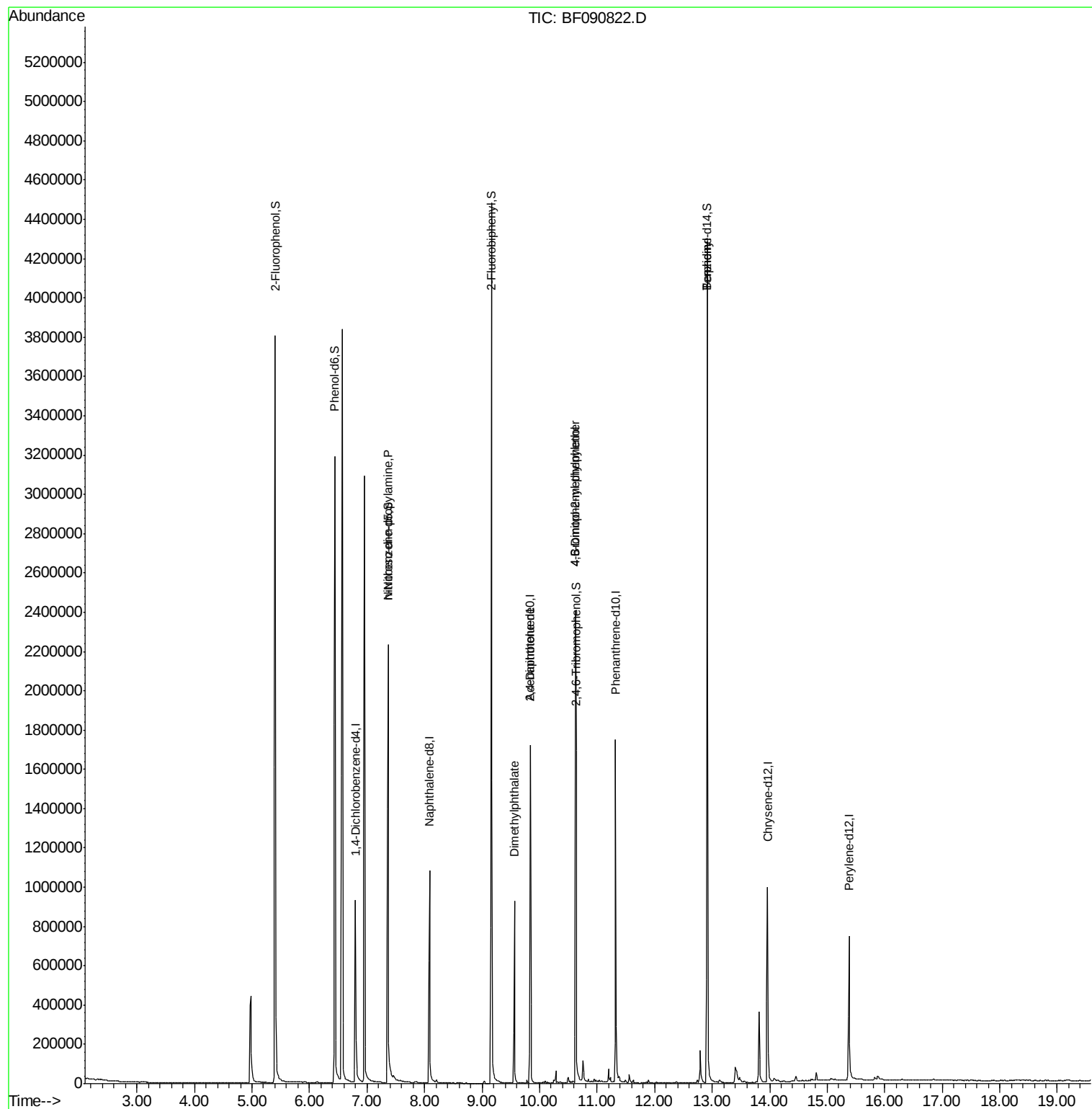
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 175010   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 718942   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 388038   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.32 | 188  | 665311   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.96 | 240  | 431544   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.38 | 264  | 332854   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 1272340  | 117.25 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 1587206  | 107.98 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 1110871  | 84.75  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 508488   | 165.56 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 1745131  | 69.82  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.91 | 244  | 1824546  | 96.90  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 143436   | 13.10  | ng    | # 49     |
| 49) Dimethylphthalate          | 9.56  | 163  | 440538   | 18.07  | ng    | # 97     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 49557    | 7.73   | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.62 | 198  | 851      | 4.36   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.62 | 248  | 28994    | 4.50   | ng    | # 1      |
| 76) Benzidine                  | 12.91 | 184  | 20023    | 2.09   | ng    | # 93     |

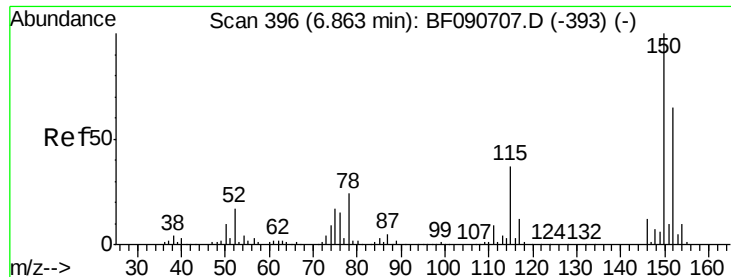
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 25 18:56:36 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Instrument :

BNA\_F

ClientSampleId :

SIDEWELL-WEST

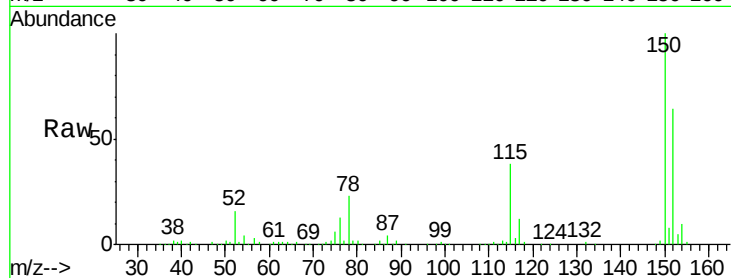
Tgt Ion:152 Resp: 175010

Ion Ratio Lower Upper

152 100

150 155.6 124.7 187.1

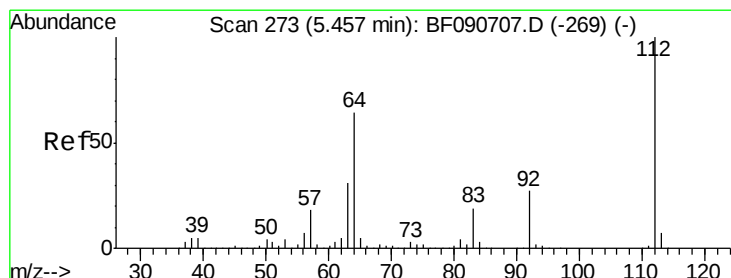
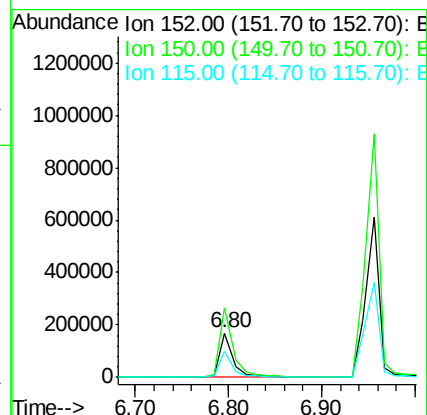
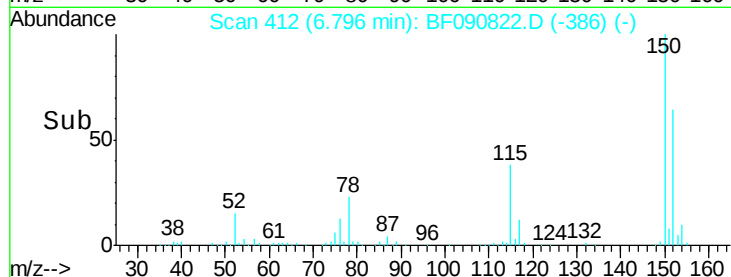
115 59.7 39.0 58.4#



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: 117.25 ng

RT: 5.40 min Scan# 290

Delta R.T. 0.01 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

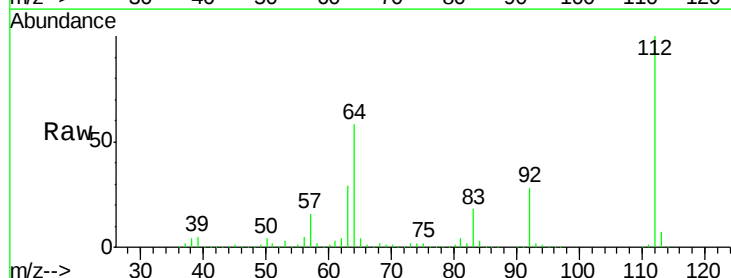
Tgt Ion:112 Resp: 1272340

Ion Ratio Lower Upper

112 100

64 57.6 39.7 59.5

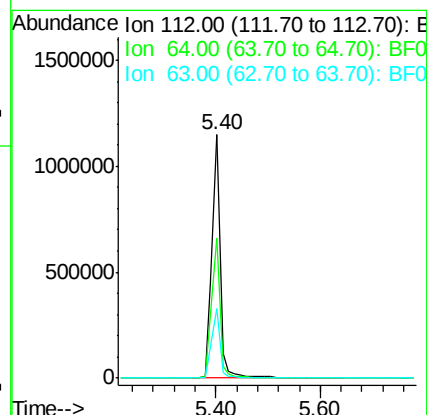
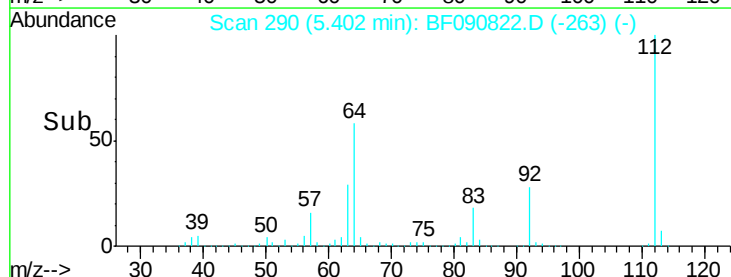
63 28.7 17.4 26.0#

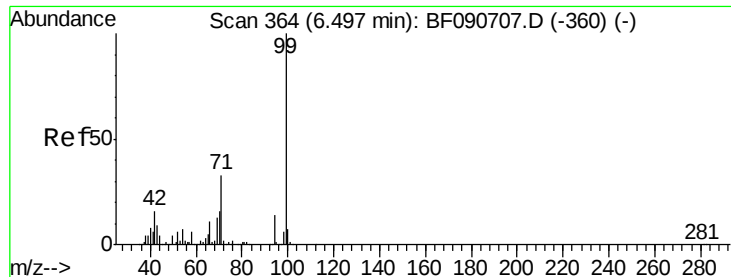


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.98 ng

RT: 6.44 min Scan# 381

Delta R.T. 0.00 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Instrument :

BNA\_F

ClientSampleId :

SIDEWELL-WEST

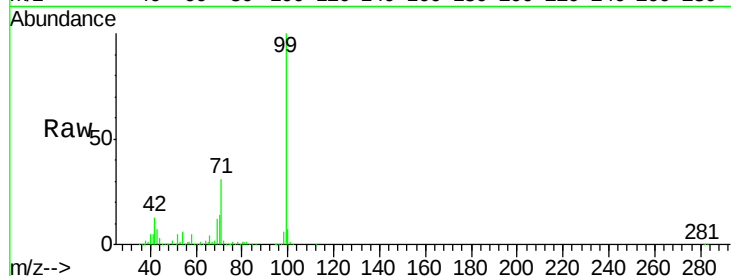
Tgt Ion: 99 Resp: 1587206

Ion Ratio Lower Upper

99 100

42 12.9 13.7 20.5#

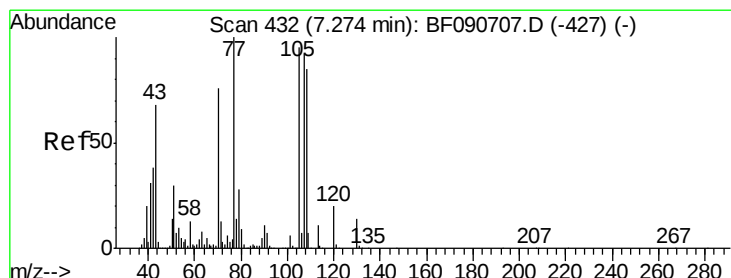
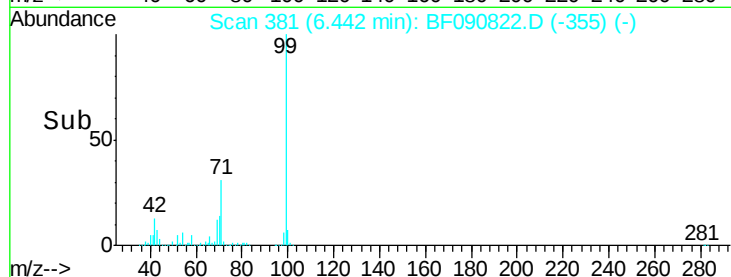
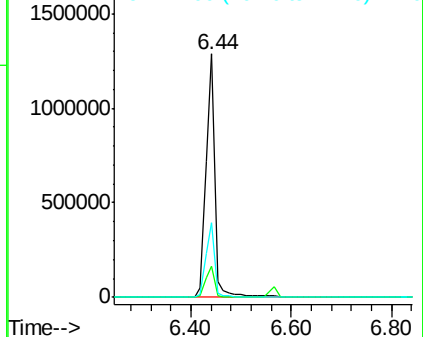
71 30.9 14.2 21.2#



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: 13.10 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.14 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Tgt Ion: 70 Resp: 143436

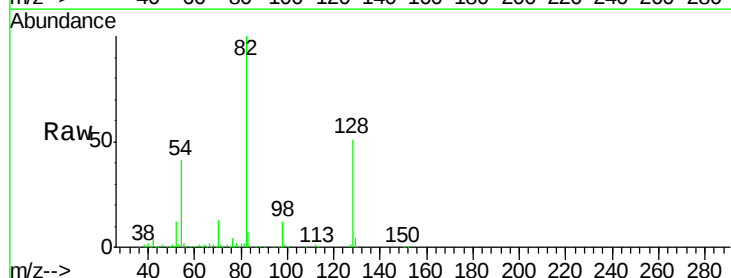
Ion Ratio Lower Upper

70 100

42 33.2 63.8 95.6#

101 0.0 9.2 13.8#

130 2.6 27.3 40.9#

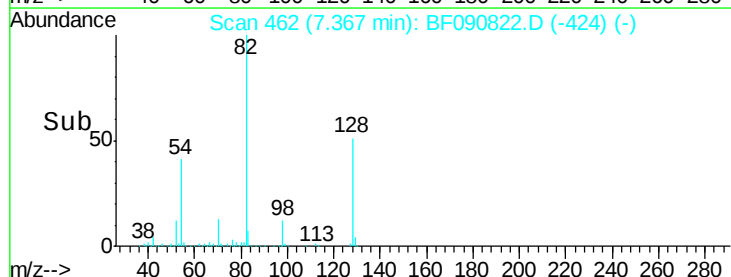
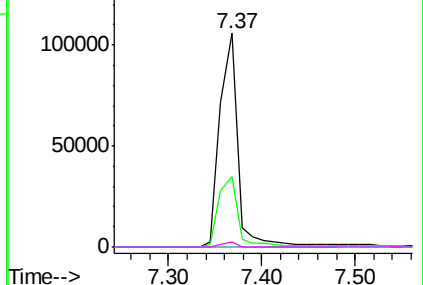


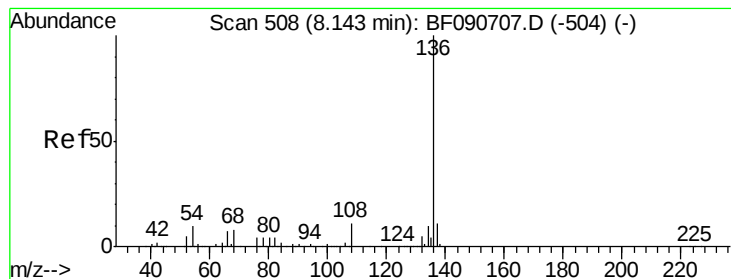
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 525

Delta R.T. 0.00 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Instrument :

BNA\_F

ClientSampleId :

SIDEWELL-WEST

Tgt Ion:136 Resp: 718942

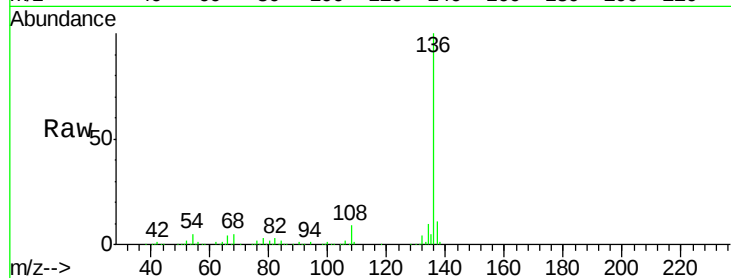
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.6

54 5.0 8.2 12.2#

68 5.0 5.8 8.6#

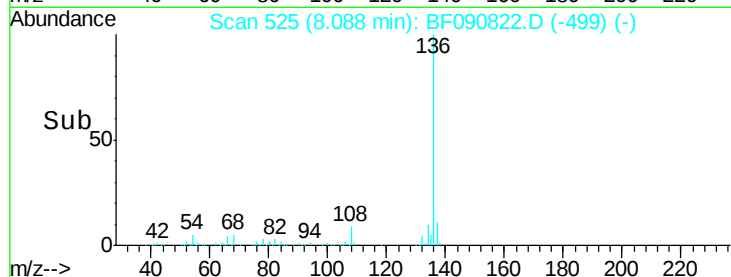


Abundance Ion 136.00 (135.70 to 136.70): E

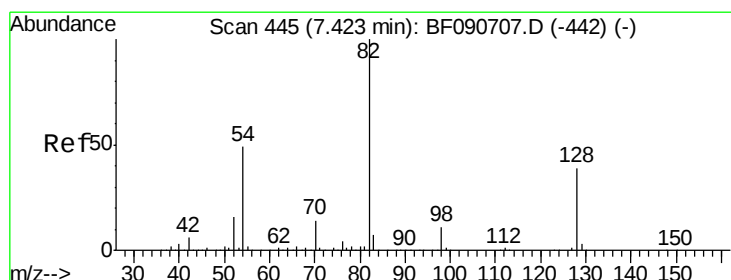
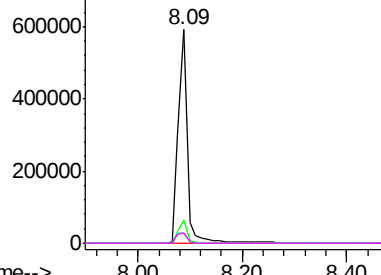
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 84.75 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.00 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

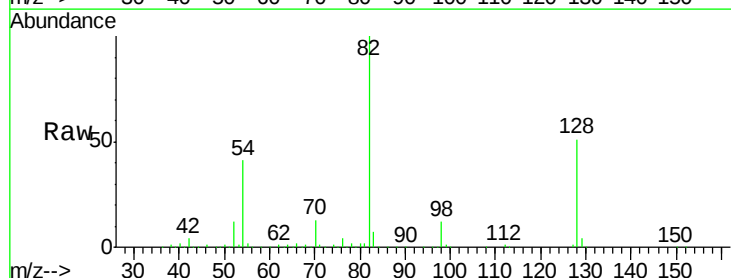
Tgt Ion: 82 Resp: 1110871

Ion Ratio Lower Upper

82 100

128 51.0 51.0 76.6#

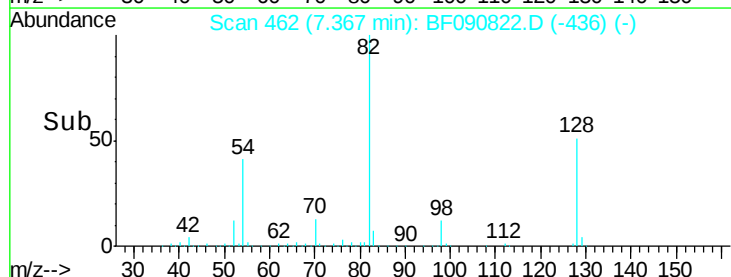
54 40.6 47.5 71.3#



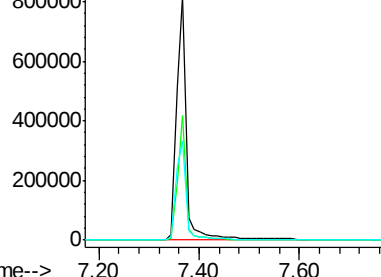
Abundance Ion 82.00 (81.70 to 82.70): BF0

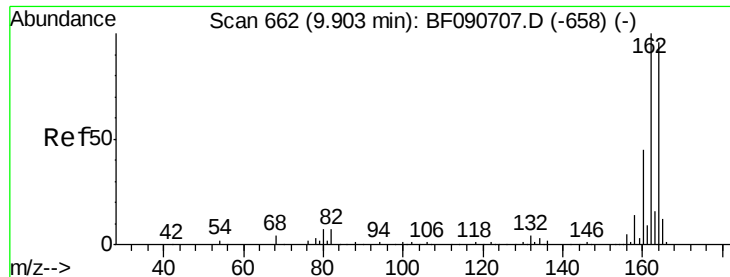
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->

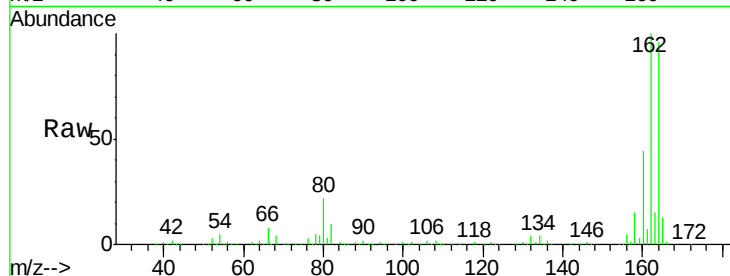




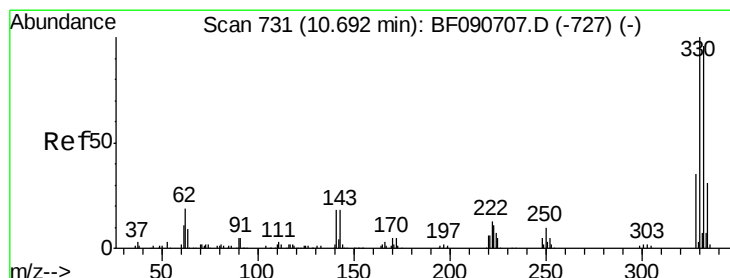
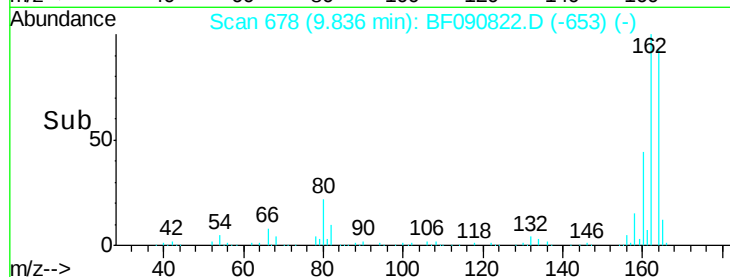
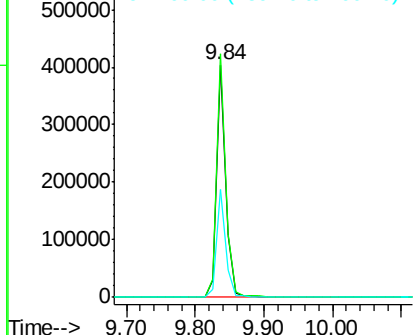
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.84 min Scan# 678  
 Delta R.T. -0.01 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

Instrument :  
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 SIDEWELL-WEST

Tgt Ion:164 Resp: 388038  
 Ion Ratio Lower Upper  
 164 100  
 162 104.7 75.2 112.8  
 160 46.2 31.5 47.3

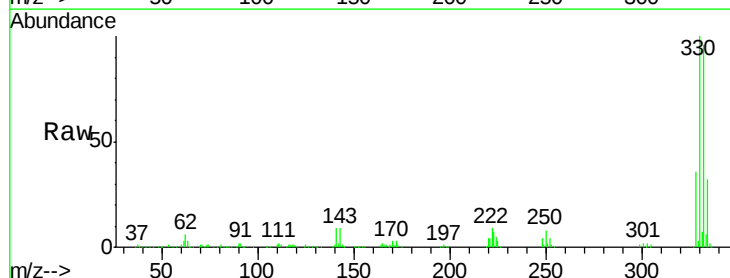


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

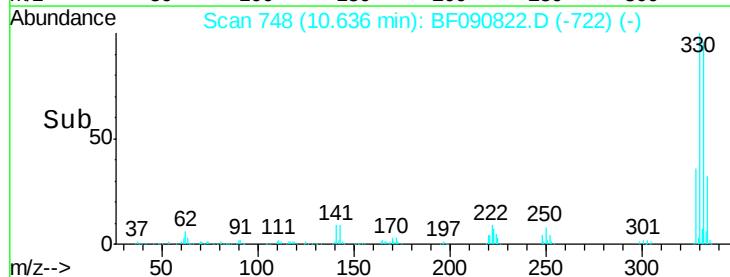
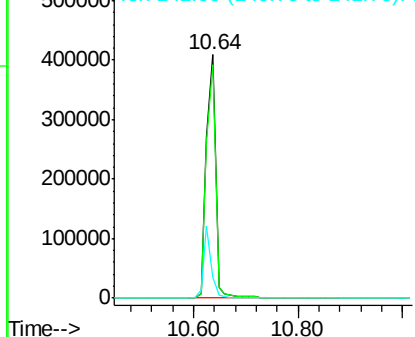


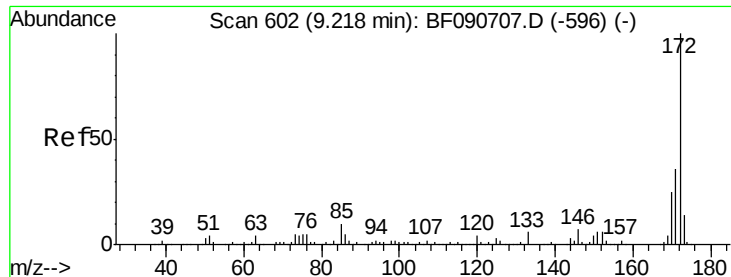
#41  
 2,4,6-Tribromophenol  
 Concen: 165.56 ng  
 RT: 10.64 min Scan# 748  
 Delta R.T. 0.00 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

Tgt Ion:330 Resp: 508488  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 76.6 114.8  
 141 24.8 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

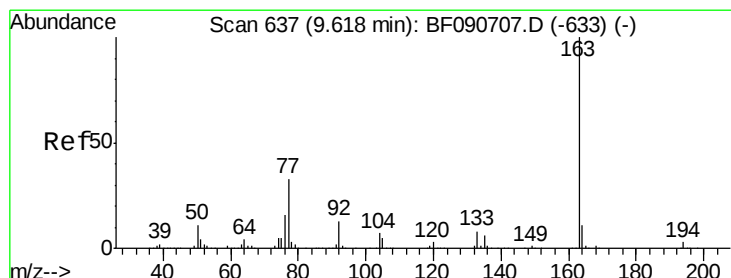
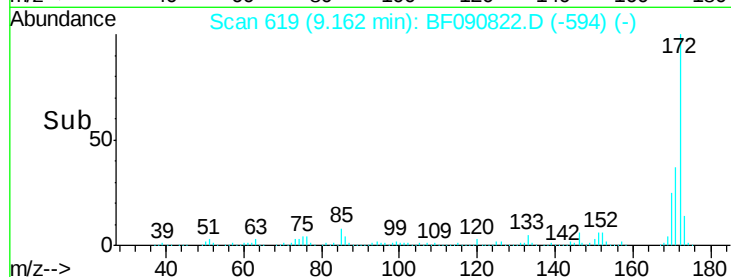
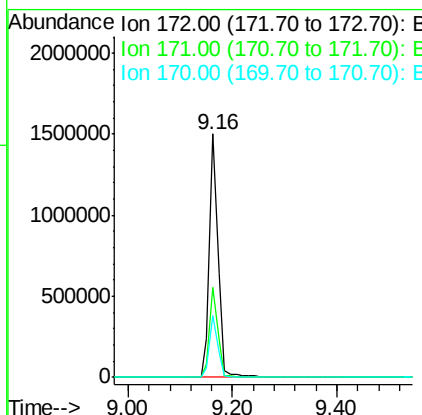
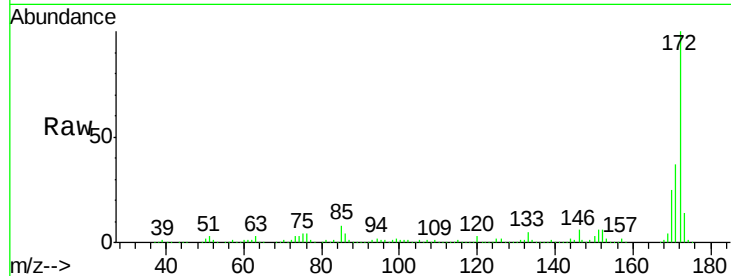




#44  
 2-Fluorobiphenyl  
 Concen: 69.82 ng  
 RT: 9.16 min Scan# 619  
 Delta R.T. -0.01 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

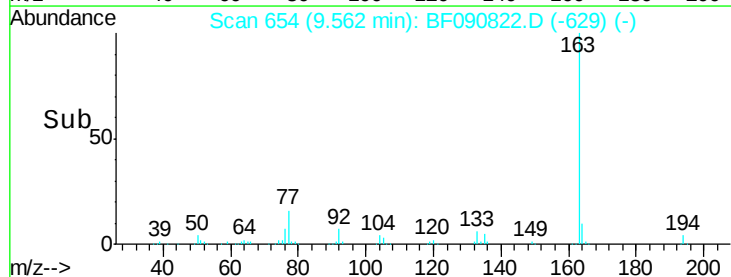
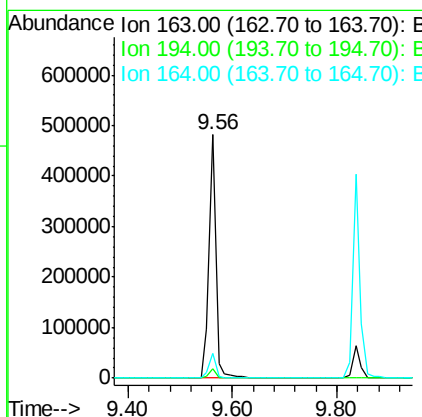
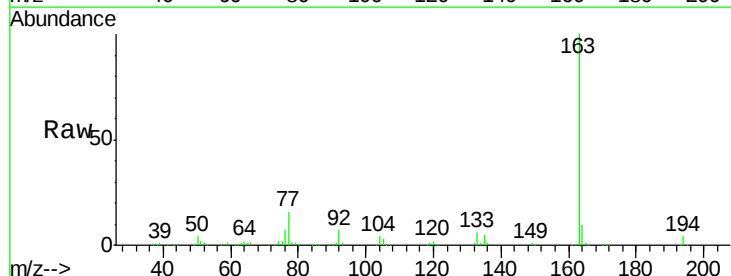
Instrument :  
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 SIDEWELL-WEST

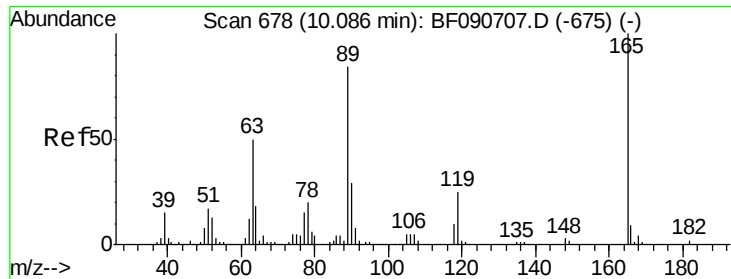
Tgt Ion:172 Resp: 1745131  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 26.1 39.1  
 170 25.2 17.4 26.2



#49  
 Dimethylphthalate  
 Concen: 18.07 ng  
 RT: 9.56 min Scan# 654  
 Delta R.T. -0.01 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

Tgt Ion:163 Resp: 440538  
 Ion Ratio Lower Upper  
 163 100  
 194 3.6 4.4 6.6#  
 164 9.9 8.3 12.5

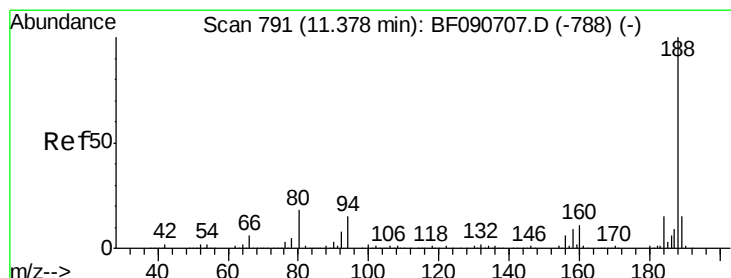
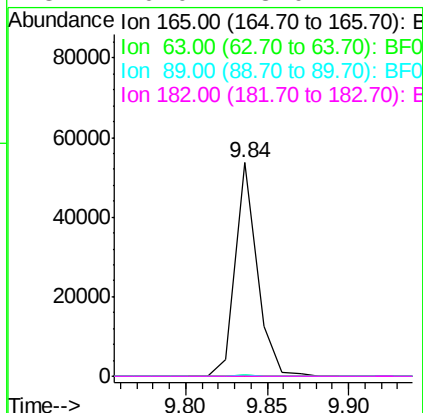
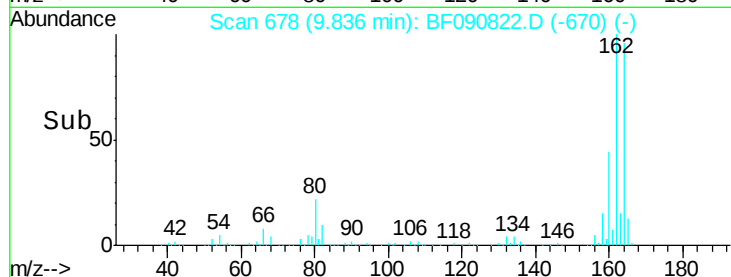
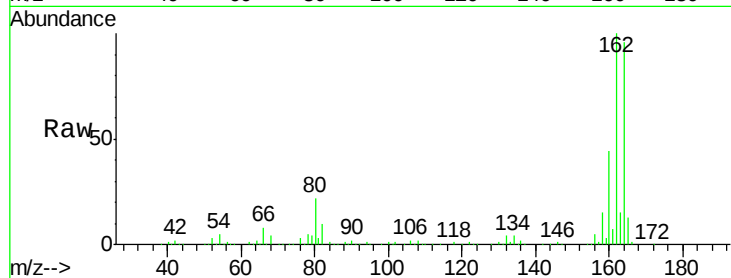




#56  
 2,4-Dinitrotoluene  
 Concen: 7.73 ng  
 RT: 9.84 min Scan# 678  
 Delta R.T. -0.21 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

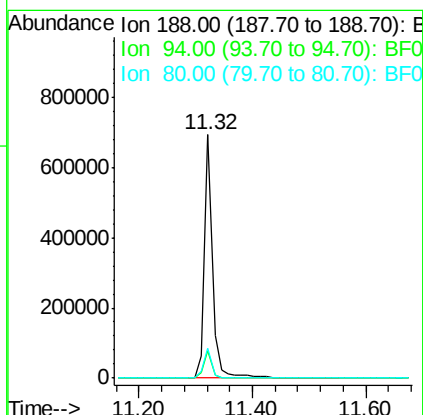
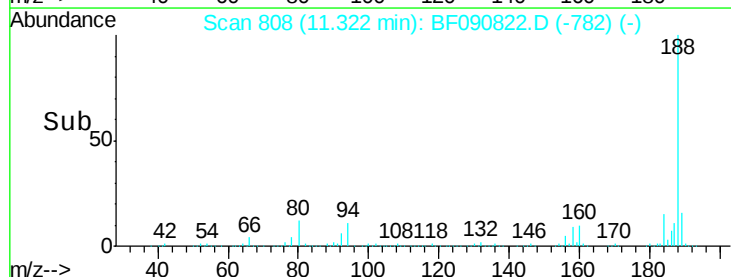
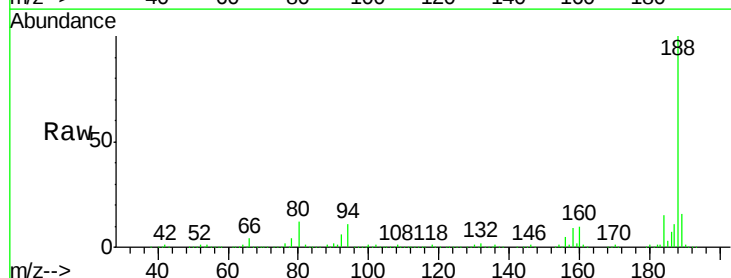
Instrument :  
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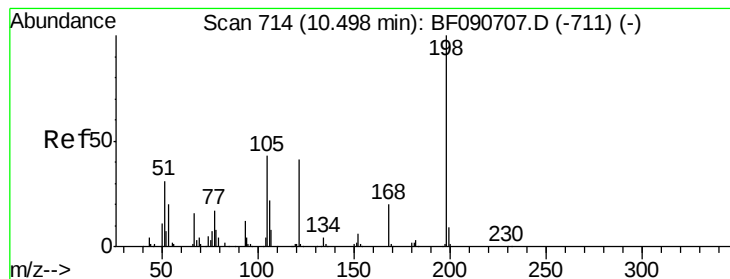
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 49557 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.8   | 29.8  | 44.6# |
| 89       | 0.9   | 44.5  | 66.7# |
| 182      | 0.0   | 3.0   | 4.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.32 min Scan# 808  
 Delta R.T. 0.00 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 665311 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 11.2  | 11.1  | 16.7   |
| 80       | 12.3  | 11.0  | 16.4   |





#64

4,6-Dinitro-2-methylphenol

Concen: 4.36 ng

RT: 10.62 min Scan# 747

Delta R.T. 0.18 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Instrument :

BNA\_F

ClientSampleId :

SIDEWELL-WEST

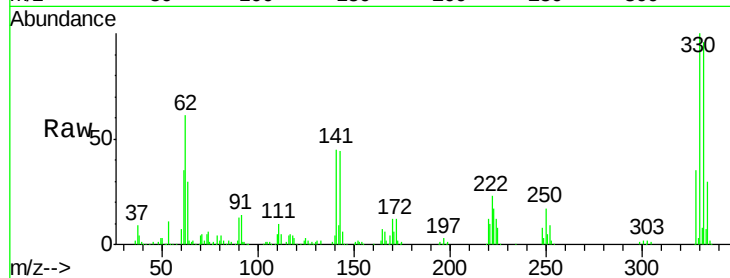
Tgt Ion:198 Resp: 851

Ion Ratio Lower Upper

198 100

51 155.2 39.6 79.6#

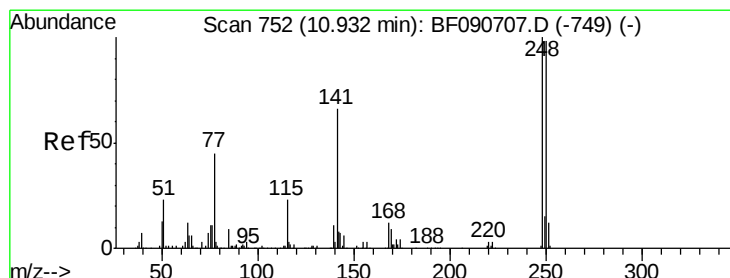
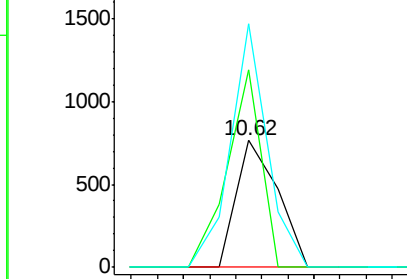
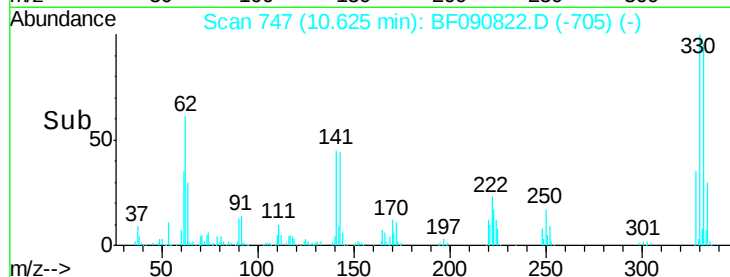
105 191.6 28.5 68.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 4.50 ng

RT: 10.62 min Scan# 747

Delta R.T. -0.25 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

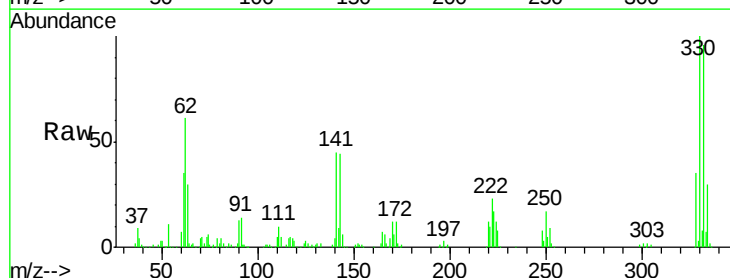
Tgt Ion:248 Resp: 28994

Ion Ratio Lower Upper

248 100

250 199.2 78.5 117.7#

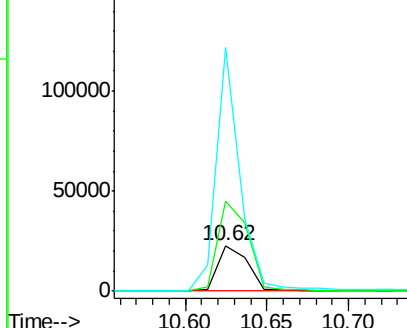
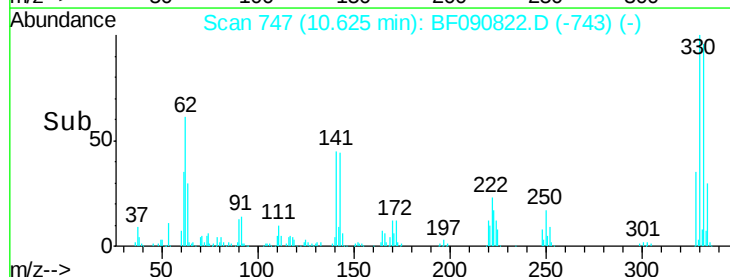
141 535.6 59.0 88.6#

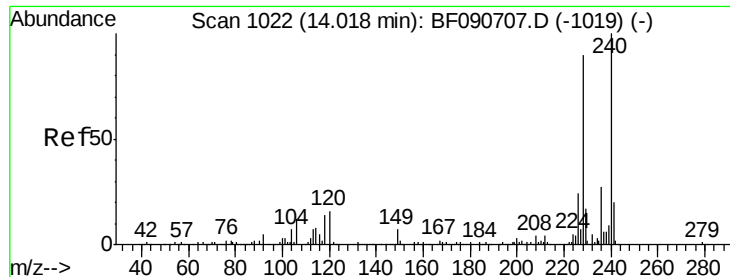


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.96 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

Instrument :

BNA\_F

ClientSampleId :

SIDEWELL-WEST

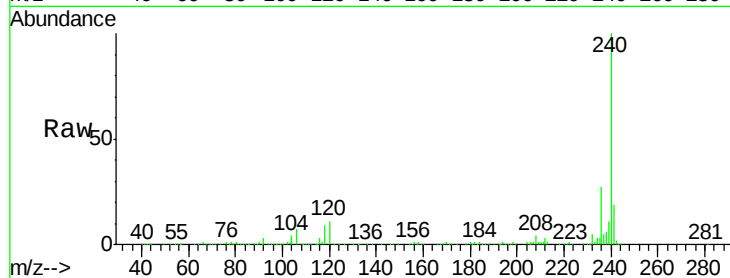
Tgt Ion:240 Resp: 431544

Ion Ratio Lower Upper

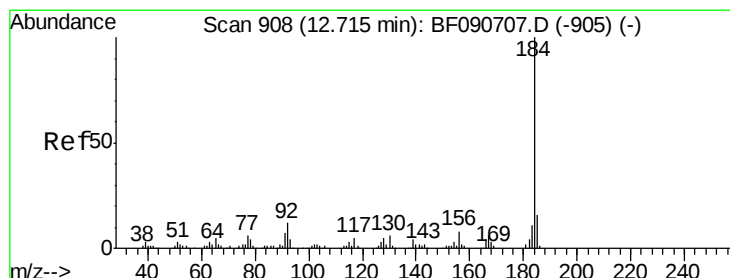
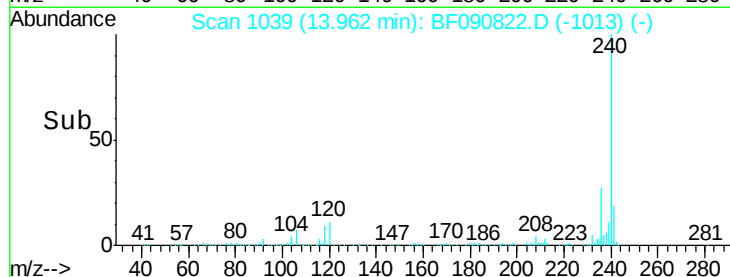
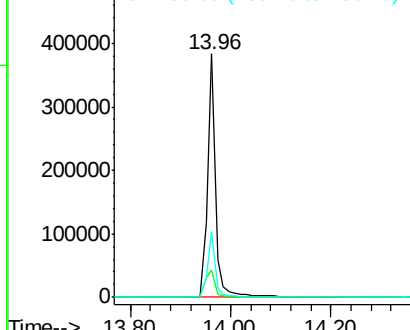
240 100

120 11.0 16.2 24.2#

236 26.9 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



#76

Benzidine

Concen: 2.09 ng

RT: 12.91 min Scan# 947

Delta R.T. 0.24 min

Lab File: BF090822.D

Acq: 25 Oct 2016 22:01

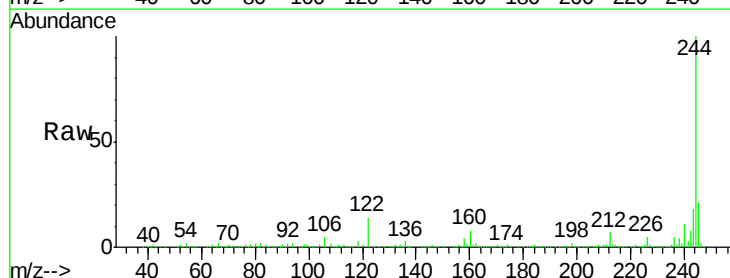
Tgt Ion:184 Resp: 20023

Ion Ratio Lower Upper

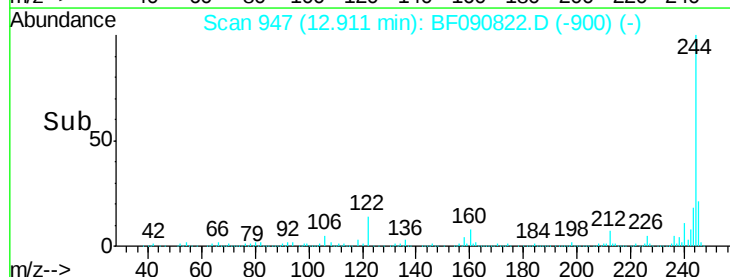
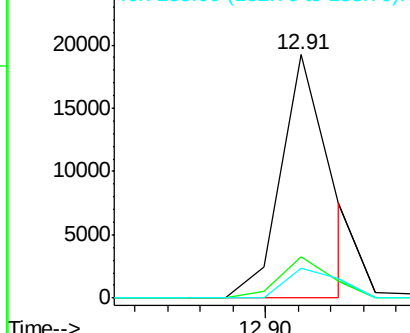
184 100

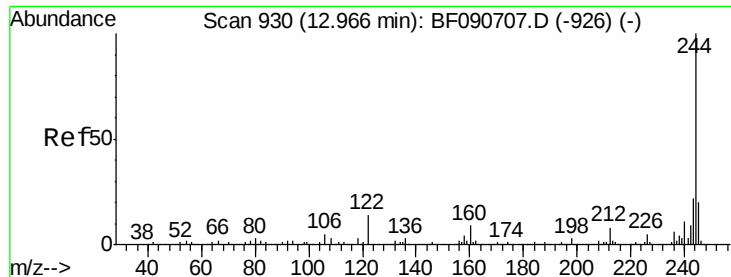
185 17.0 11.8 17.6

183 12.5 7.6 11.4#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

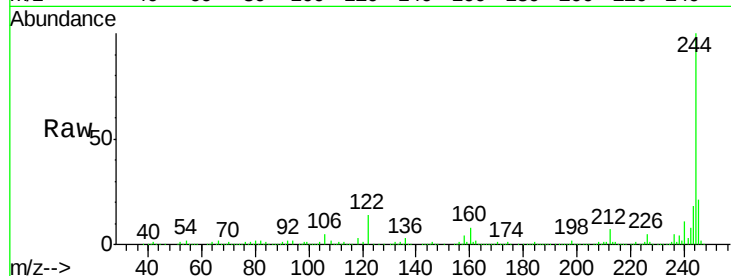




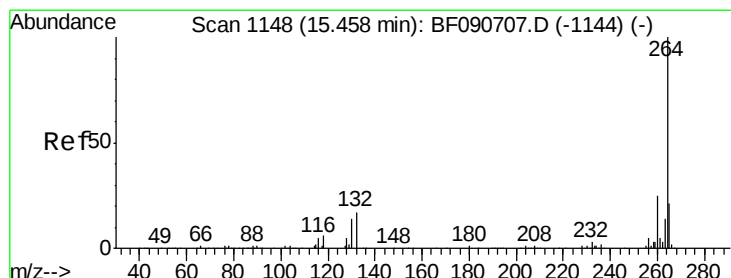
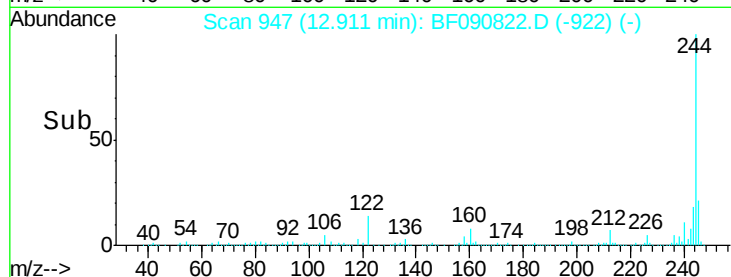
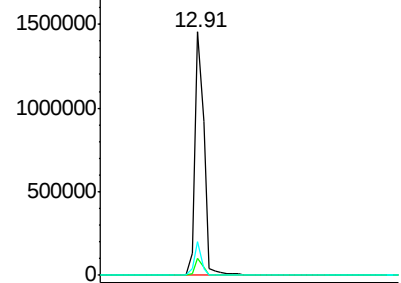
#78  
 Terphenyl-d14  
 Concen: 96.90 ng  
 RT: 12.91 min Scan# 947  
 Delta R.T. -0.01 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SIDEWELL-WEST

Tgt Ion:244 Resp: 1824546  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 4.3 6.5#  
 122 13.8 17.4 26.2#

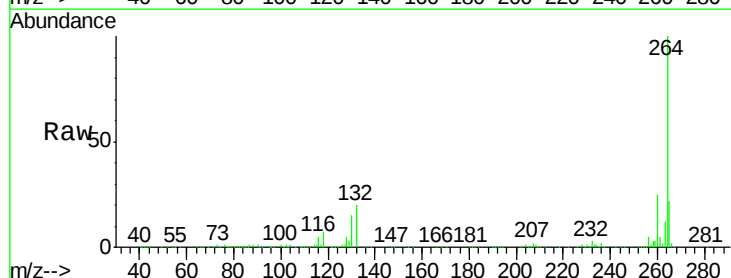


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.38 min Scan# 1163  
 Delta R.T. 0.00 min  
 Lab File: BF090822.D  
 Acq: 25 Oct 2016 22:01

Tgt Ion:264 Resp: 332854  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 16.7 25.1  
 265 21.6 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

