

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101916\  
 Data File : BF090641.D  
 Acq On : 19 Oct 2016 11:25  
 Operator : UM/SJ  
 Sample : H5289-06DL 5X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2-1DL

Manual Integrations  
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 10/20/2016 10:36:39 AM

Quant Time: Oct 19 14:33:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 17 19:19:58 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 240294   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.18  | 136  | 1088486  | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.94  | 164  | 543903   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.42 | 188  | 914220   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 14.06 | 240  | 755524   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 15.52 | 264  | 522019   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.48  | 112  | 286194   | 21.83 | ng    | -0.03    |
| 7) Phenol-d6                | 6.52  | 99   | 382099   | 19.62 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 248172   | 12.67 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 73198    | 15.10 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.25  | 172  | 444160   | 13.46 | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.00 | 244  | 410769   | 12.66 | ng    | -0.03    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.65  | 163  | 93507    | 2.65  | ng    | 97       |
| 70) Phenanthrene            | 11.45 | 178  | 609805   | 12.50 | ng    | 99       |
| 71) Anthracene              | 11.49 | 178  | 125321   | 2.39  | ng    | 99       |
| 74) Fluoranthene            | 12.64 | 202  | 1014715  | 20.67 | ng    | 99       |
| 77) Pyrene                  | 12.86 | 202  | 823945   | 16.47 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.05 | 228  | 470654   | 10.94 | ng    | 99       |
| 82) Chrysene                | 14.09 | 228  | 359346m  | 8.67  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.94 | 276  | 167773   | 7.00  | ng    | 93       |
| 87) Benzo(b)fluoranthene    | 15.09 | 252  | 499111m  | 14.61 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.12 | 252  | 125296m  | 3.41  | ng    |          |
| 89) Benzo(a)pyrene          | 15.46 | 252  | 236735   | 7.57  | ng    | # 96     |
| 91) Benzo(g,h,i)perylene    | 17.38 | 276  | 148922   | 6.55  | ng    | 100      |

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

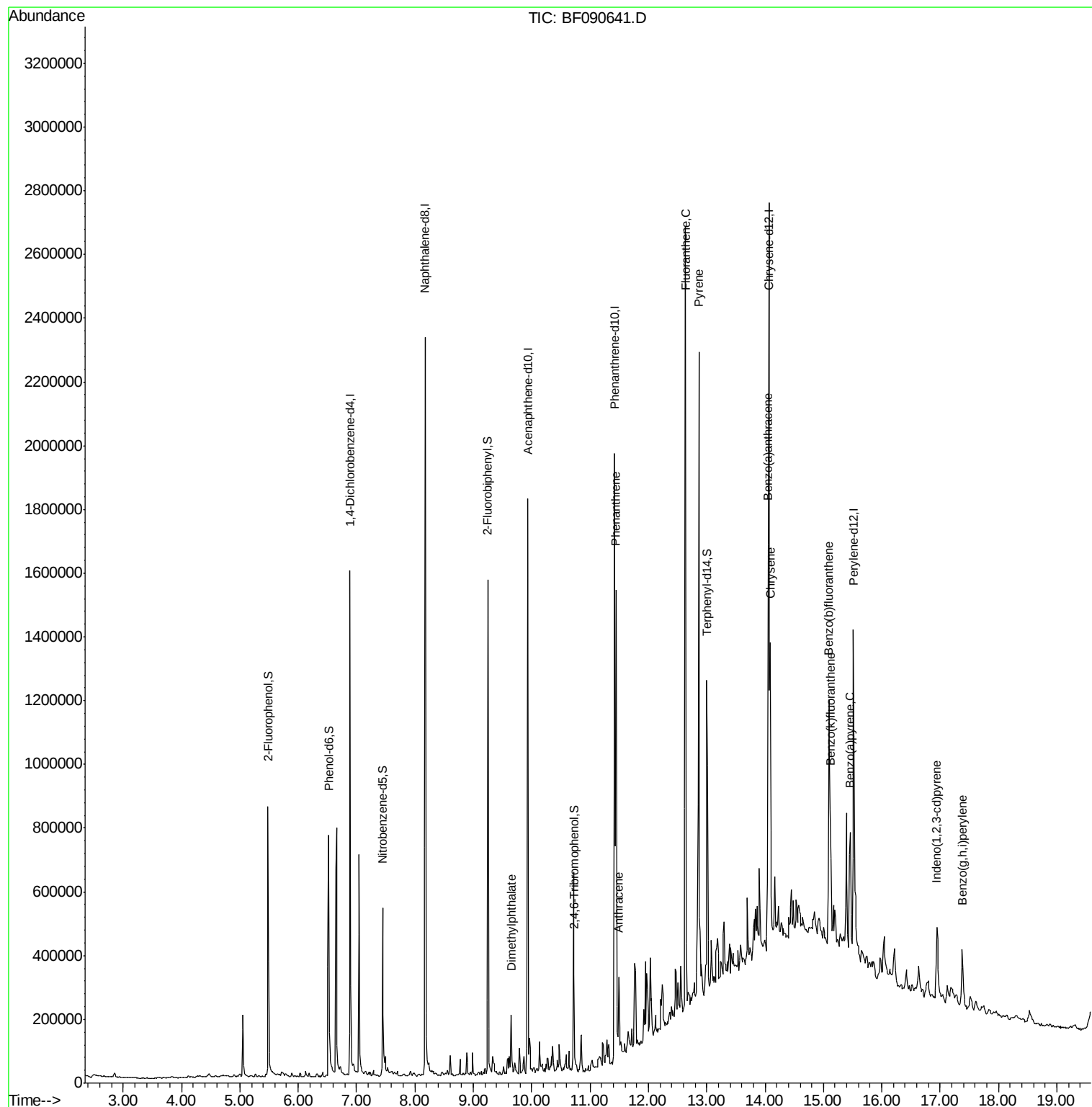
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101916\  
Data File : BF090641.D  
Acq On : 19 Oct 2016 11:25  
Operator : UM/SJ  
Sample : H5289-06DL 5X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

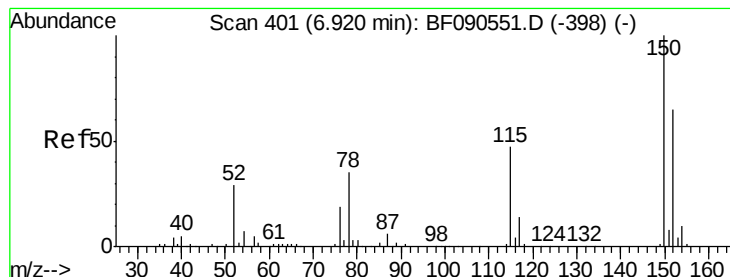
Instrument :  
BNA\_F  
ClientSampleId :  
SP-2-1DL

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Quant Time: Oct 19 14:33:58 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 17 19:19:58 2016  
Response via : Initial Calibration





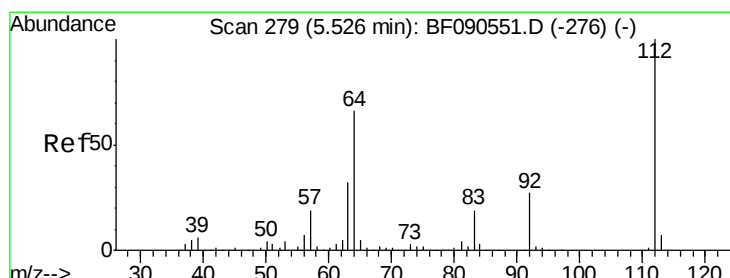
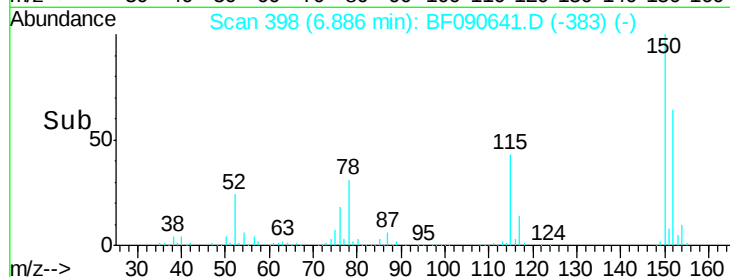
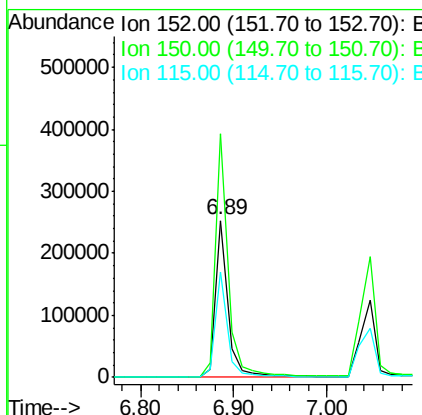
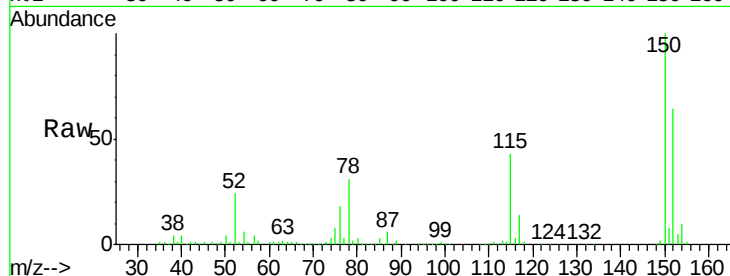
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.89 min Scan# 398  
 Delta R.T. -0.02 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

Instrument :  
 BNA\_F  
 ClientSampleID :  
 SP-2-1DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 240294 |       |       |
| 150     | 155.2 | 127.2  | 190.8 |       |
| 115     | 66.9  | 58.6   | 88.0  |       |

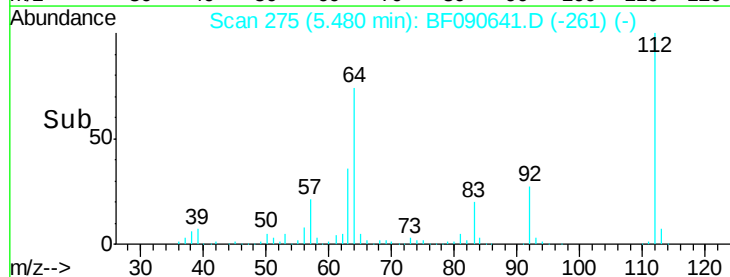
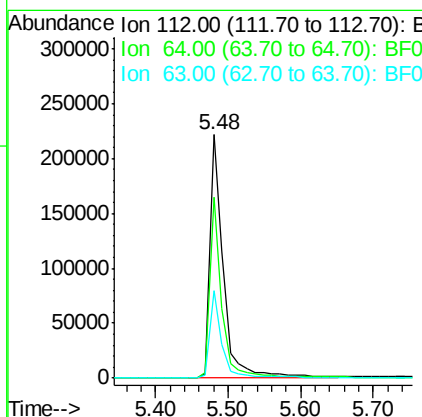
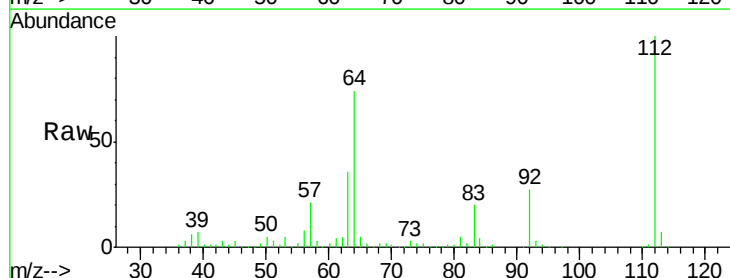
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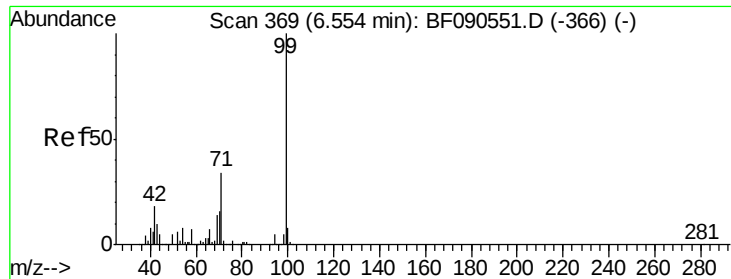
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#5  
 2-Fluorophenol  
 Concen: 21.83 ng  
 RT: 5.48 min Scan# 275  
 Delta R.T. -0.03 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 286194 |       |       |
| 64      | 74.0  | 52.6   | 78.8  |       |
| 63      | 36.2  | 26.0   | 39.0  |       |





#7

Phenol-d6

Concen: 19.62 ng

RT: 6.52 min Scan# 366

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

ClientSampleId :

SP-2-1DL

Tgt Ion: 99 Resp: 382099

Ion Ratio Lower Upper

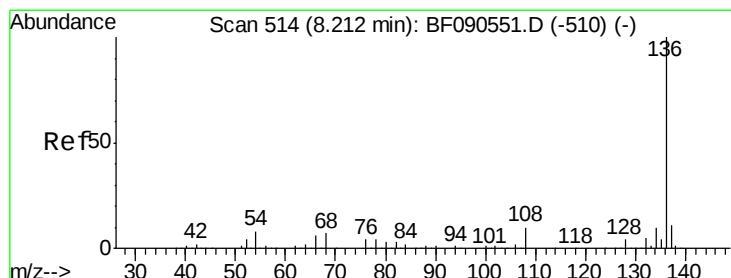
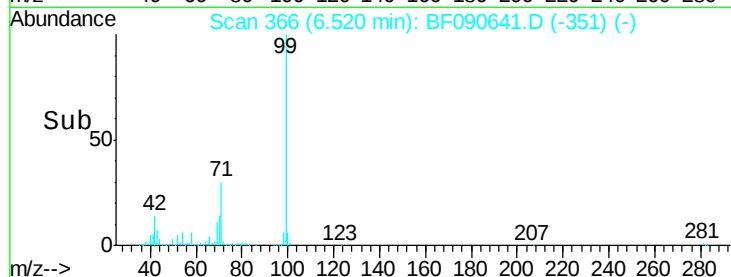
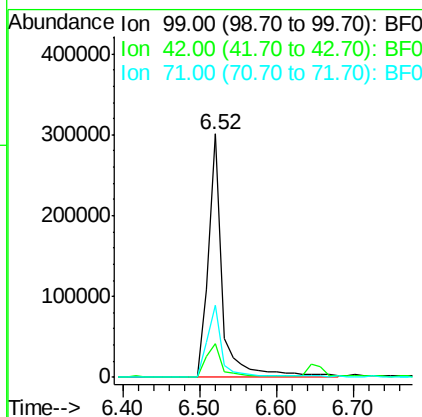
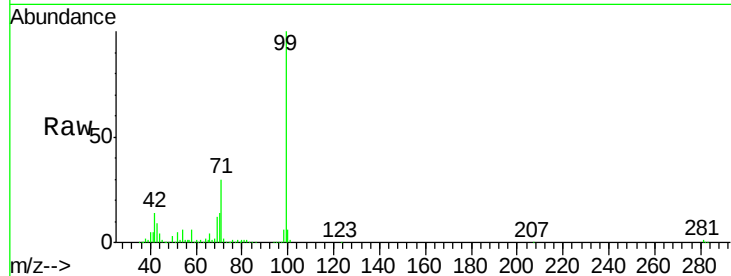
99 100

42 13.9 14.7 22.1#

71 29.8 27.6 41.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 511

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Tgt Ion: 136 Resp: 1088486

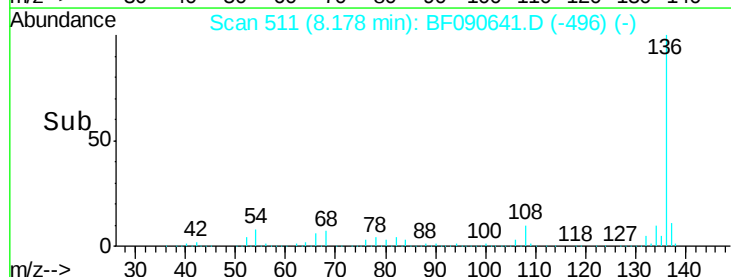
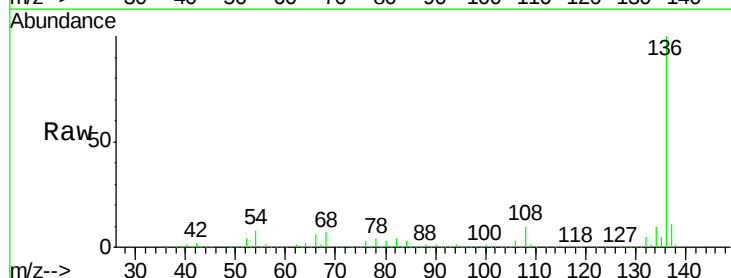
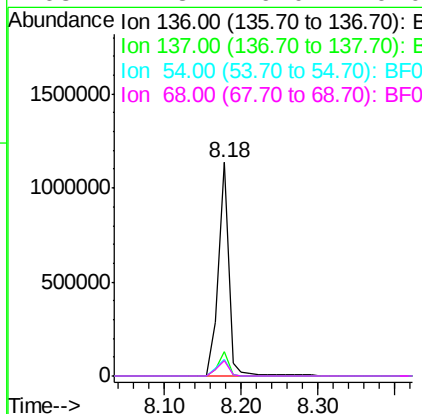
Ion Ratio Lower Upper

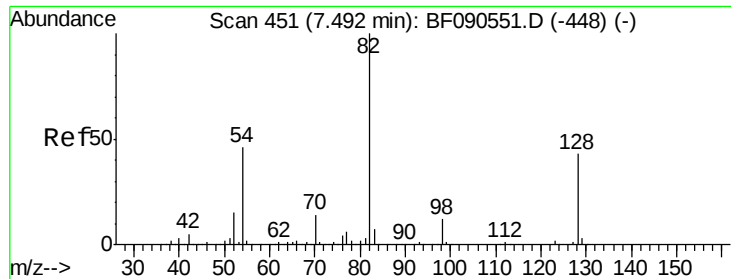
136 100

137 11.3 8.8 13.2

54 8.0 6.8 10.2

68 7.3 6.0 9.0





#23

Nitrobenzene-d5

Concen: 12.67 ng

RT: 7.45 min Scan# 447

Delta R.T. -0.03 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

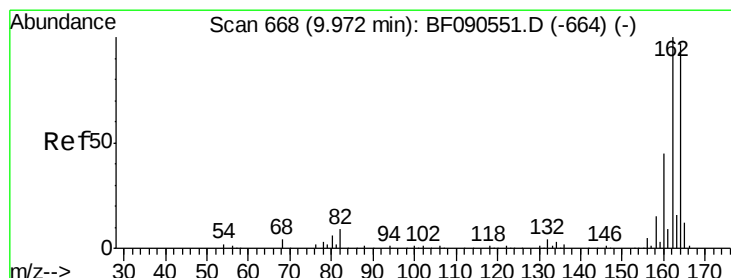
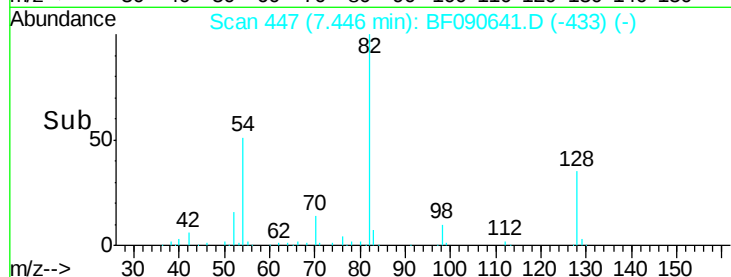
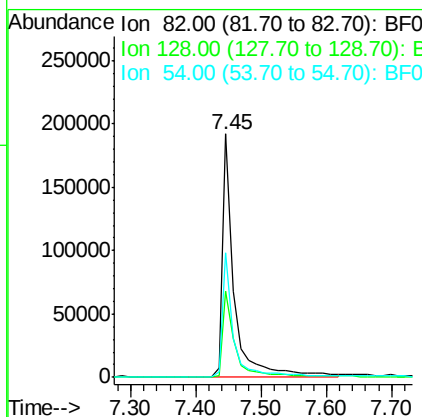
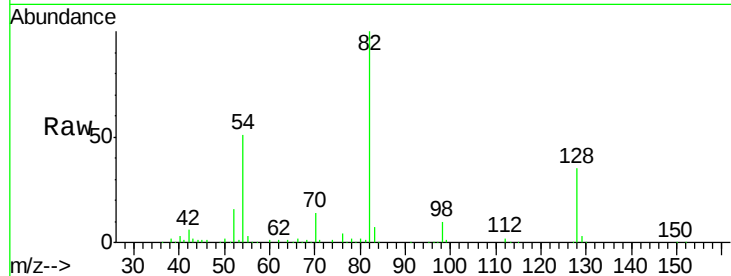
ClientSampled :

SP-2-1DL

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 82   | Resp: | 248172 |
| Ion Ratio |      | Lower | Upper  |
| 82        | 100  |       |        |
| 128       | 35.2 | 34.3  | 51.5   |
| 54        | 51.3 | 37.0  | 55.6   |

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#38

Acenaphthene-d10

Concen: 20.00 ng

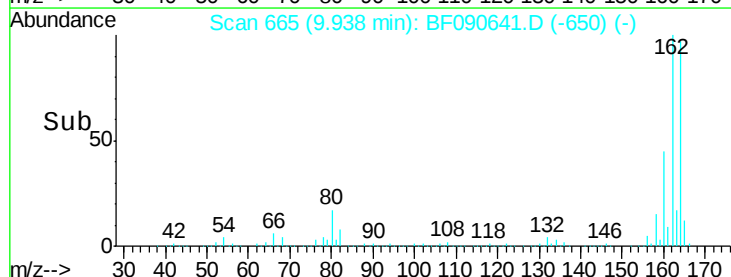
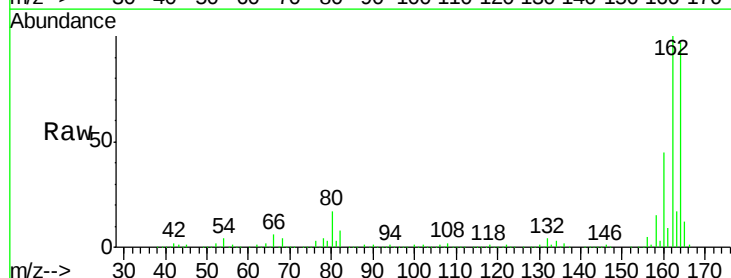
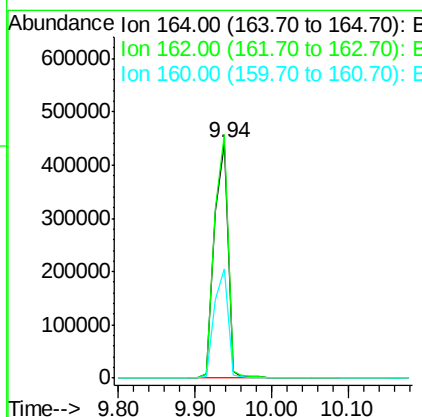
RT: 9.94 min Scan# 665

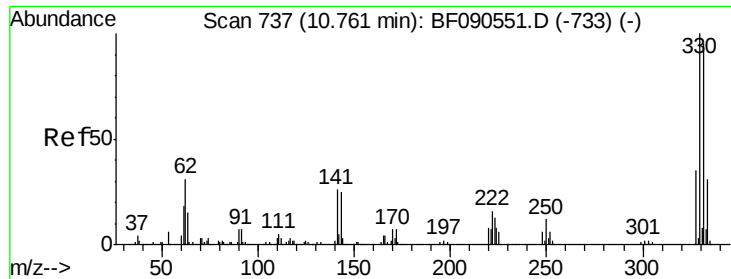
Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 543903 |
| Ion Ratio |       | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 103.6 | 82.2  | 123.4  |
| 160       | 46.7  | 36.6  | 55.0   |





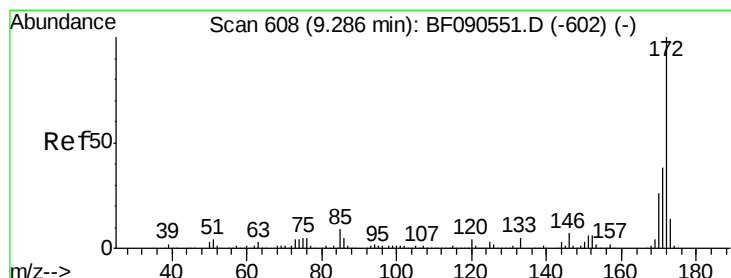
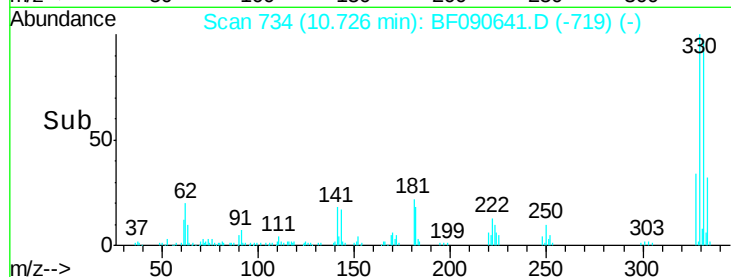
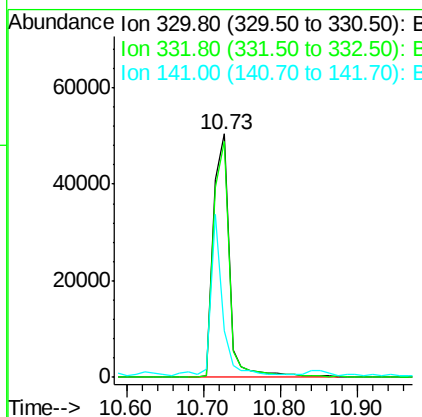
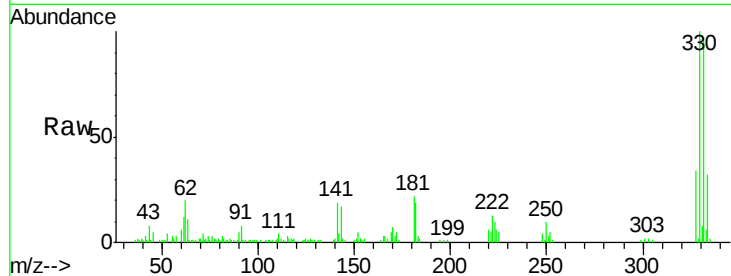
#41  
 2,4,6-Tribromophenol  
 Concen: 15.10 ng  
 RT: 10.73 min Scan# 734  
 Delta R.T. -0.02 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-2-1DL

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 73198 |       |       |
| 332     | 96.1  | 76.2  | 114.2 |       |
| 141     | 46.9  | 31.4  | 47.2  |       |

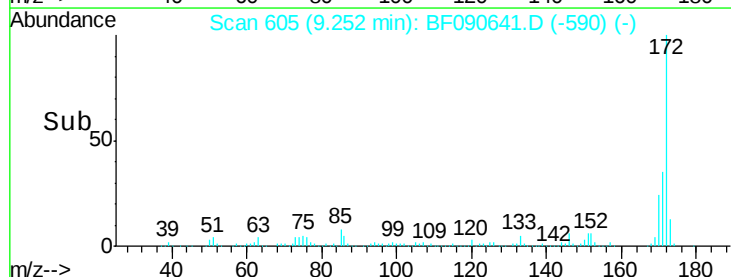
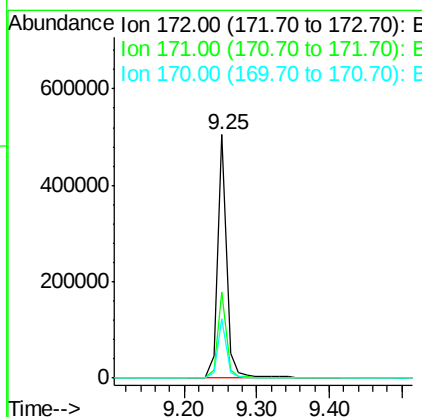
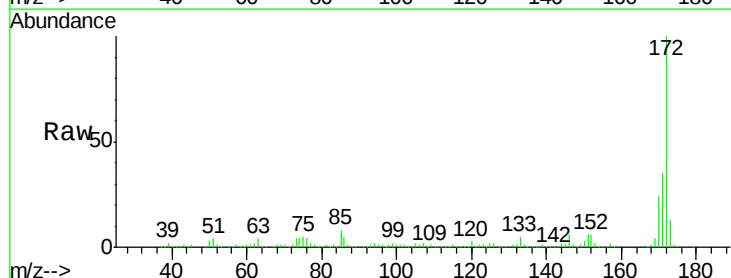
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#44  
 2-Fluorobiphenyl  
 Concen: 13.46 ng  
 RT: 9.25 min Scan# 605  
 Delta R.T. -0.02 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 444160 |       |       |
| 171     | 35.3  | 30.1   | 45.1  |       |
| 170     | 24.4  | 20.6   | 30.8  |       |





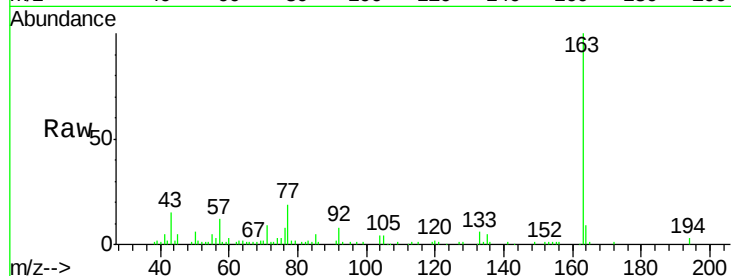
#49  
Dimethylphthalate  
Concen: 2.65 ng  
RT: 9.65 min Scan# 640  
Delta R.T. -0.02 min  
Lab File: BF090641.D  
Acq: 19 Oct 2016 11:25

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2-1DL

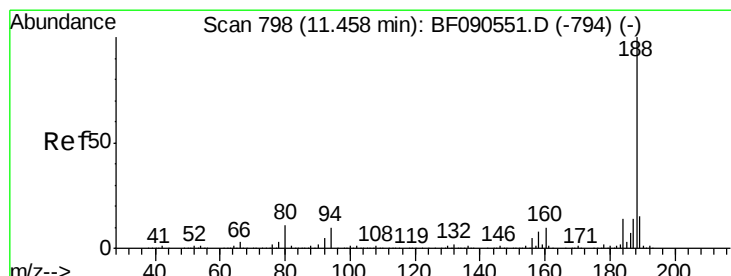
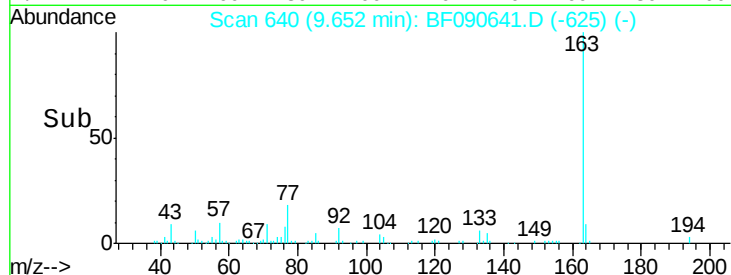
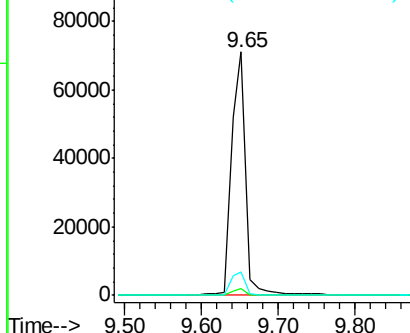
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 93507 |       |       |
| 194     | 3.0   |       | 2.3   | 3.5   |
| 164     | 9.4   |       | 8.6   | 13.0  |

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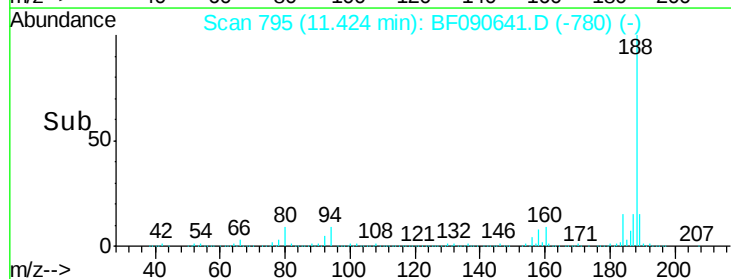
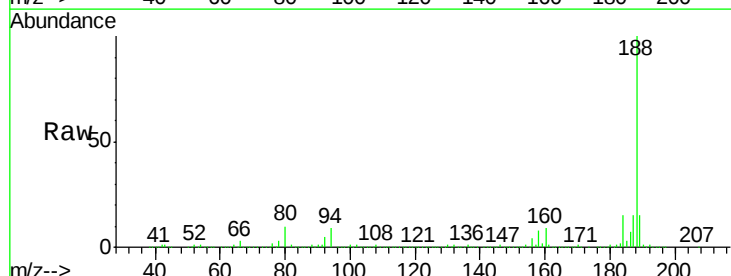
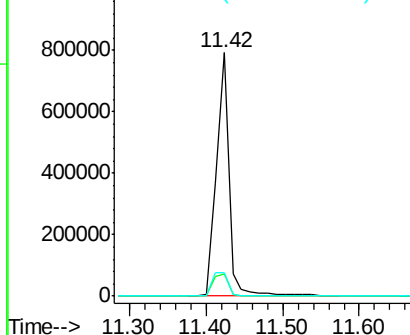
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

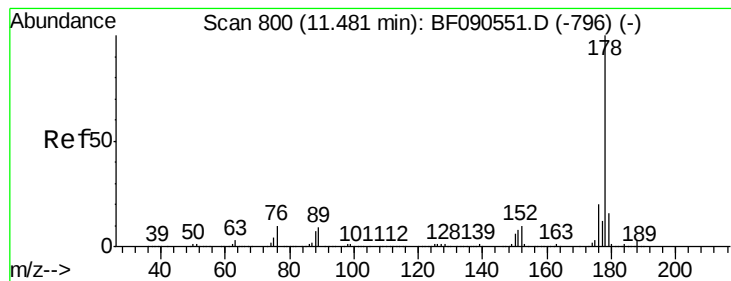


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.42 min Scan# 795  
Delta R.T. -0.02 min  
Lab File: BF090641.D  
Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 914220 |       |       |
| 94      | 9.0   |        | 7.7   | 11.5  |
| 80      | 9.5   |        | 8.6   | 12.8  |

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: 12.50 ng

RT: 11.45 min Scan# 797

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

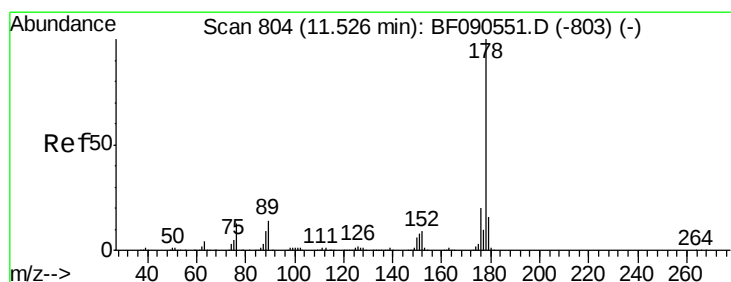
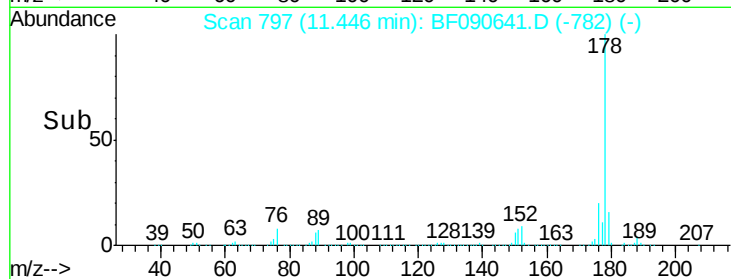
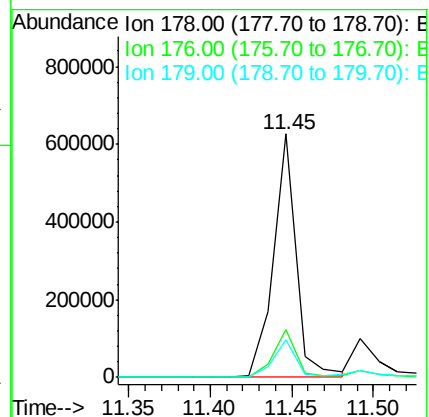
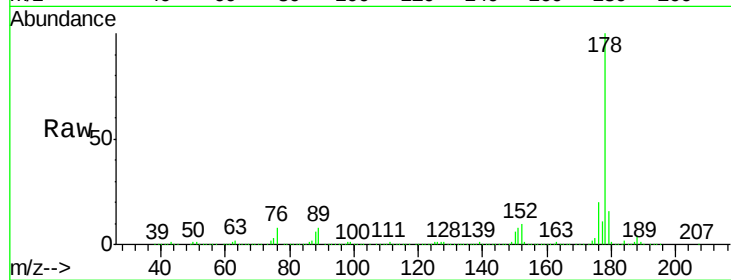
ClientSampleId :

SP-2-1DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 609805 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.6  | 16.1  | 24.1   |
| 179       | 15.6  | 12.6  | 19.0   |

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#71

Anthracene

Concen: 2.39 ng

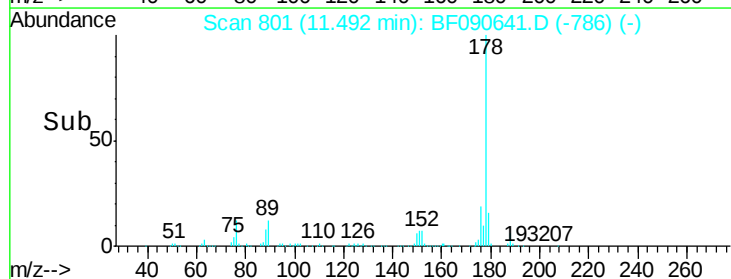
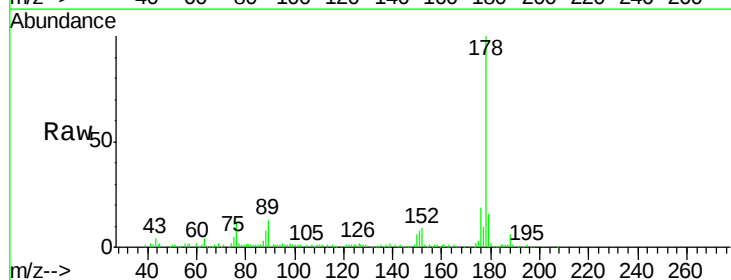
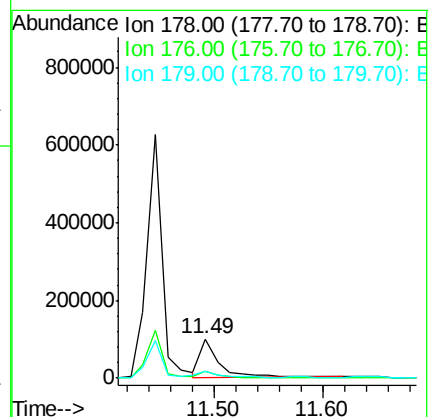
RT: 11.49 min Scan# 801

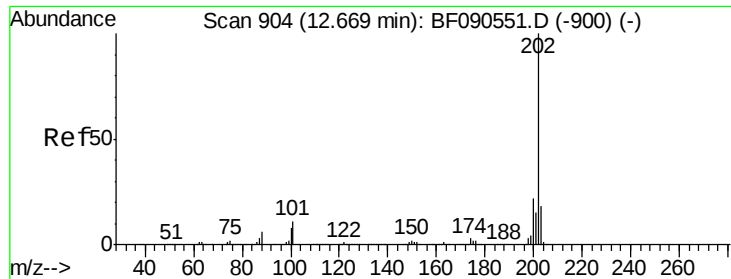
Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 125321 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.6  | 15.5  | 23.3   |
| 179       | 16.1  | 13.0  | 19.4   |





#74

Fluoranthene

Concen: 20.67 ng

RT: 12.64 min Scan# 901

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

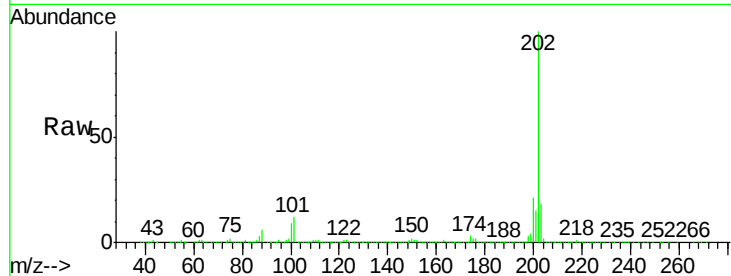
ClientSampleId :

SP-2-1DL

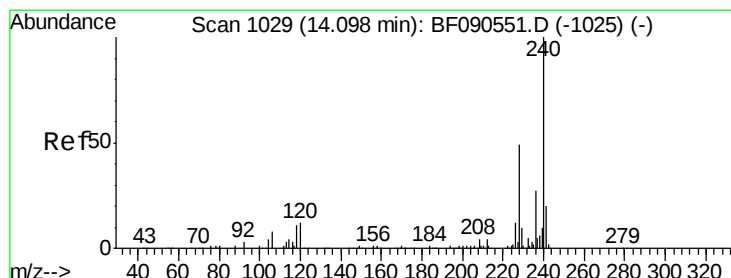
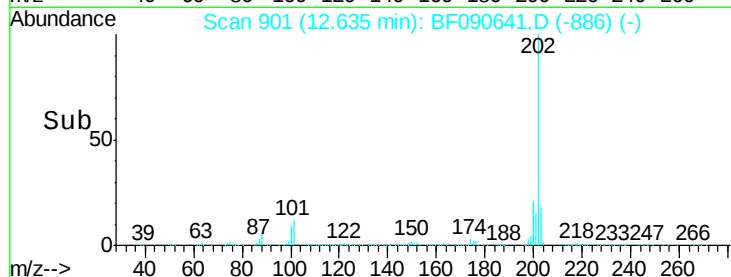
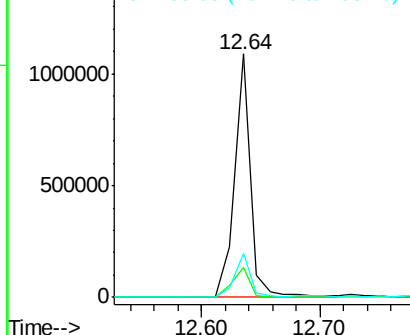
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1014715 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.2  | 0.0   | 31.1    |
| 203       | 17.9  | 0.0   | 38.0    |

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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: 14.06 min Scan# 1026

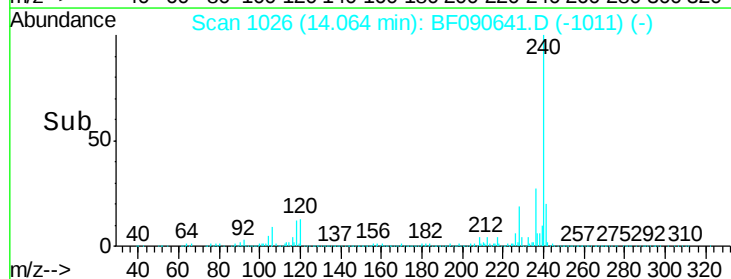
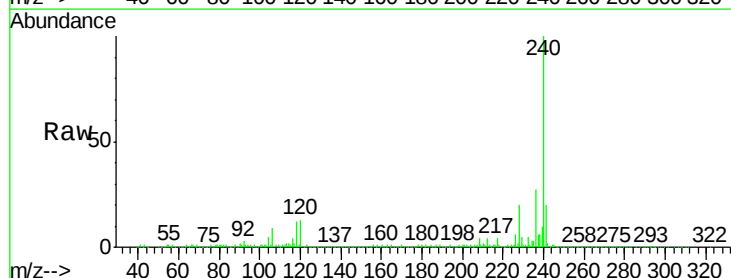
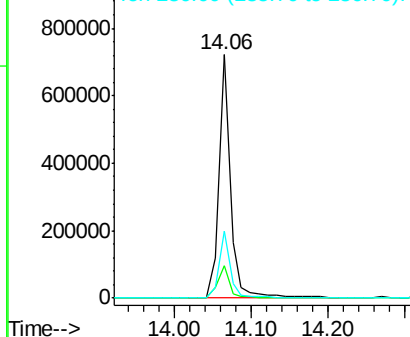
Delta R.T. -0.02 min

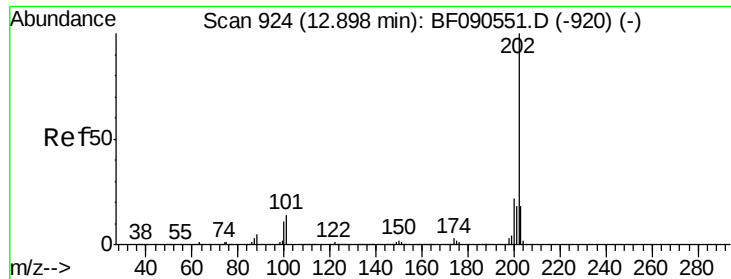
Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 755524 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.1  | 9.8   | 14.8   |
| 236       | 27.3  | 21.7  | 32.5   |

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: 16.47 ng

RT: 12.86 min Scan# 921

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

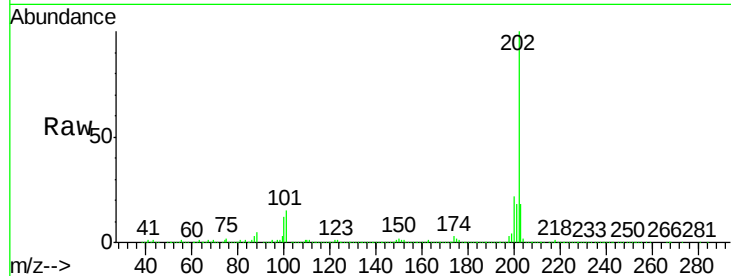
ClientSampleId :

SP-2-1DL

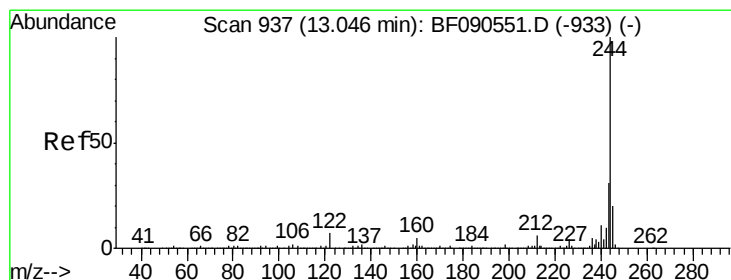
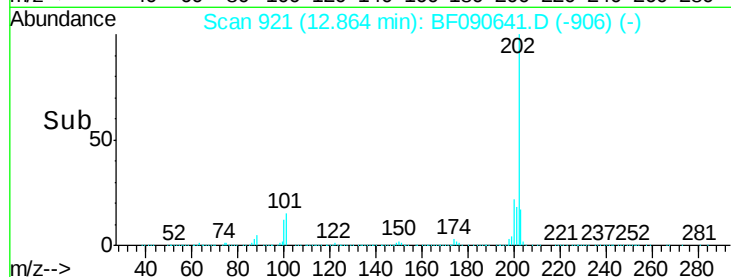
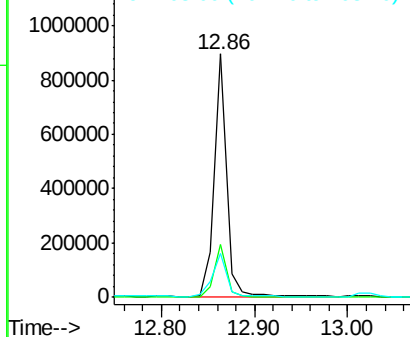
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 823945 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.7  | 17.8  | 26.6   |
| 203       | 18.2  | 14.6  | 21.8   |

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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: 12.66 ng

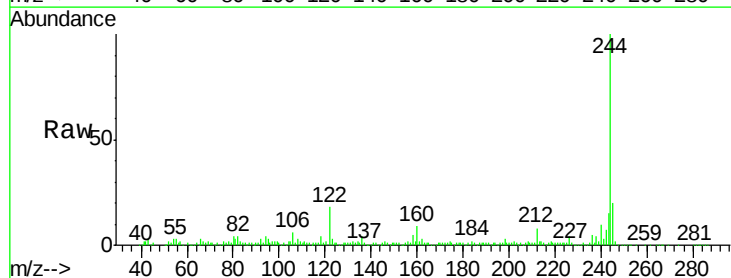
RT: 13.00 min Scan# 933

Delta R.T. -0.03 min

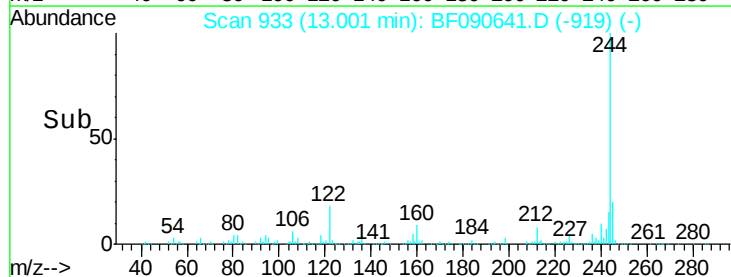
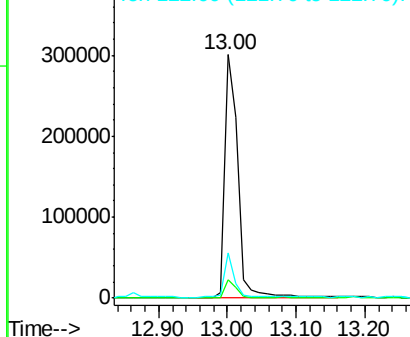
Lab File: BF090641.D

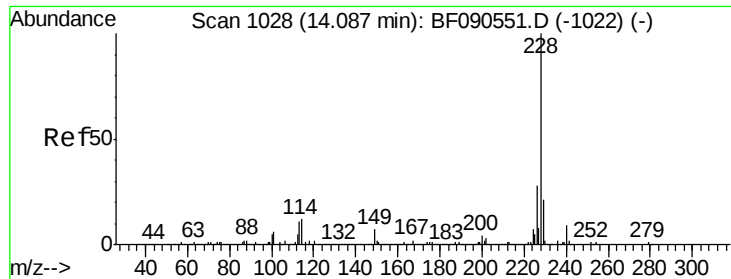
Acq: 19 Oct 2016 11:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 410769 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.7   | 5.0   | 7.4#   |
| 122       | 18.5  | 5.6   | 8.4#   |



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: 10.94 ng

RT: 14.05 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

Instrument :

BNA\_F

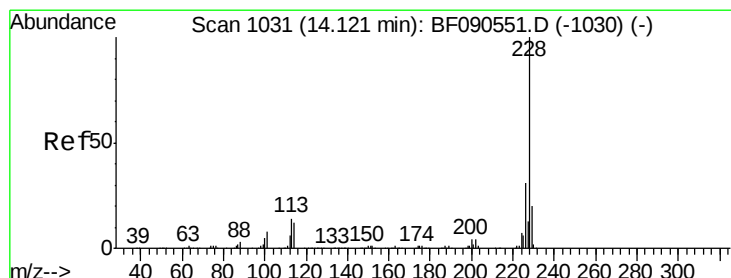
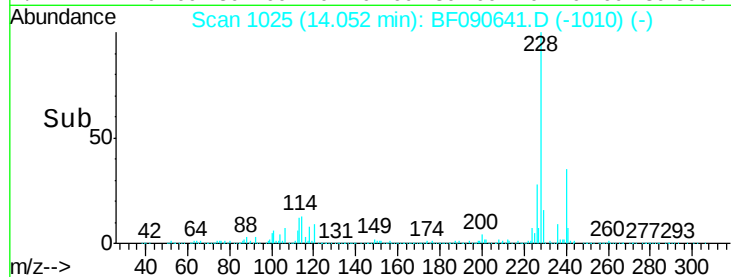
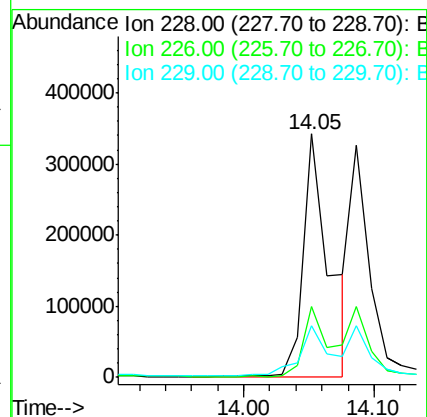
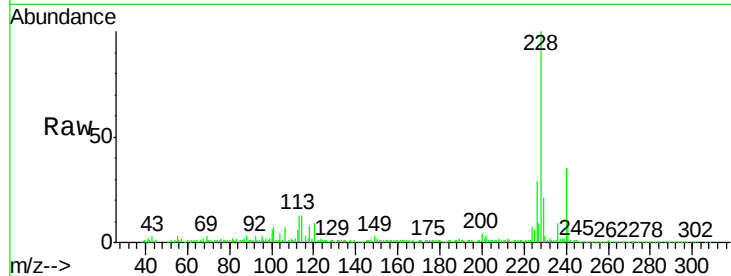
ClientSampleID :

SP-2-1DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 470654 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 22.8  | 34.2   |
| 229       | 21.4  | 16.6  | 25.0   |

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#82

Chrysene

Concen: 8.67 ng m

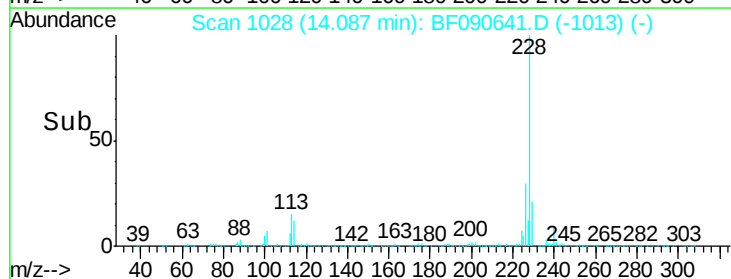
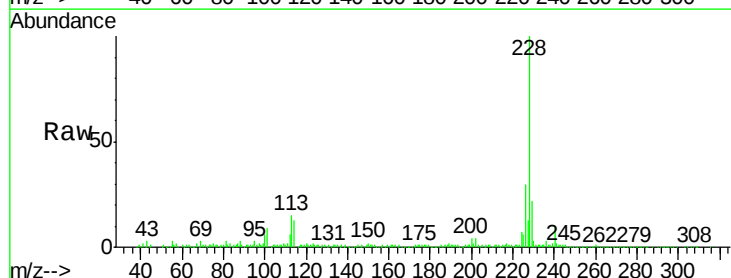
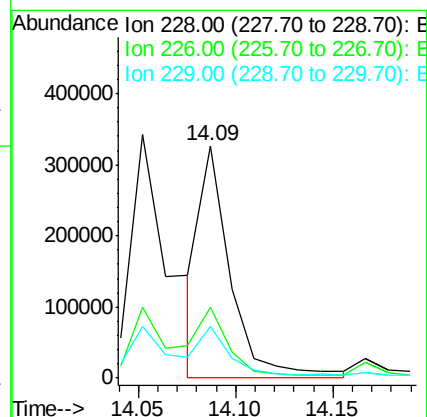
RT: 14.09 min Scan# 1028

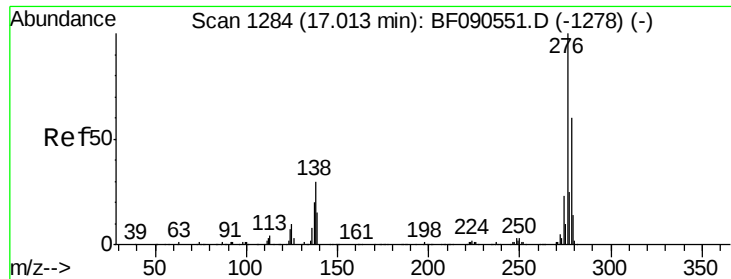
Delta R.T. -0.02 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 359346 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 24.8  | 37.2   |
| 229       | 22.0  | 16.2  | 24.4   |





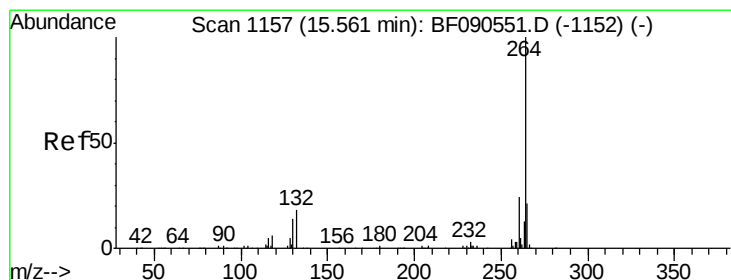
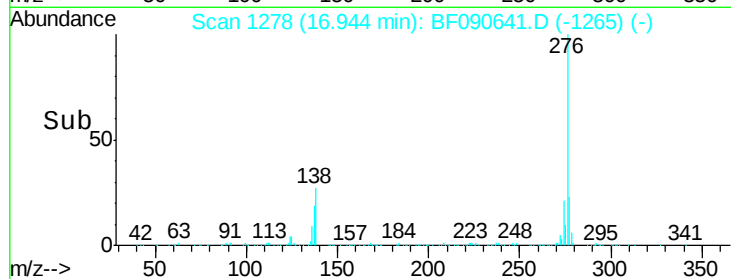
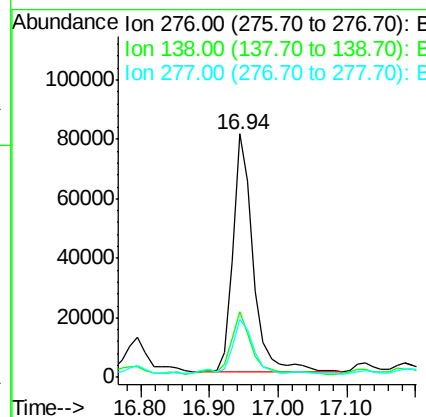
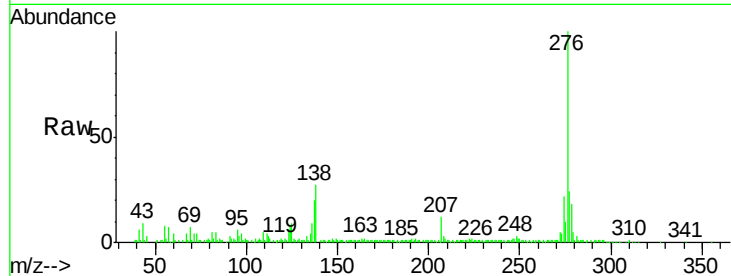
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 7.00 ng  
 RT: 16.94 min Scan# 1278  
 Delta R.T. -0.05 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-2-1DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.2  | 25.8  | 38.6  |
| 277     | 23.6  | 20.1  | 30.1  |

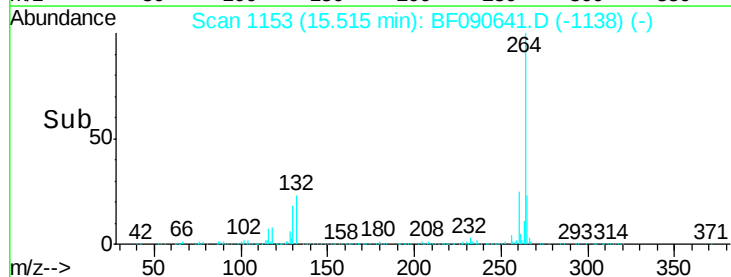
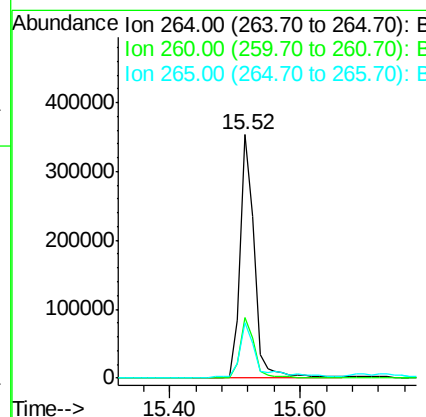
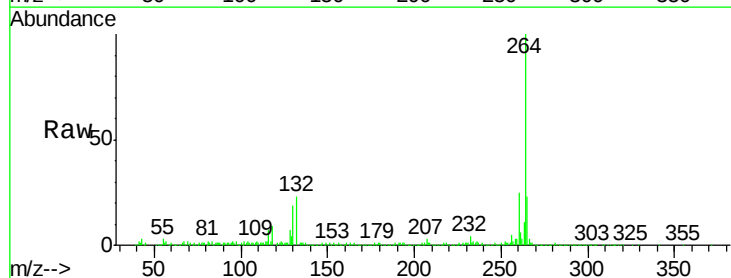
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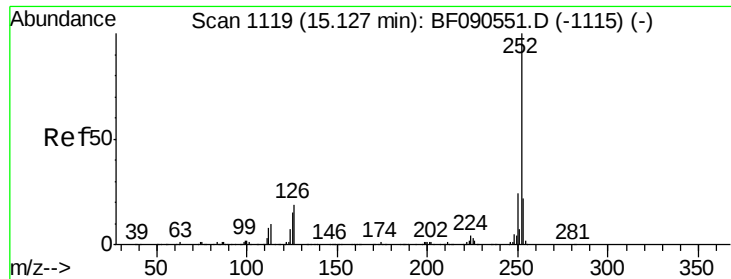
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.52 min Scan# 1153  
 Delta R.T. -0.02 min  
 Lab File: BF090641.D  
 Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 19.3  | 28.9  |
| 265     | 22.8  | 16.7  | 25.1  |





#87

Benzo(b)fluoranthene

Concen: 14.61 ng m

RT: 15.09 min Scan# 1116

Delta R.T. -0.02 min

Lab File: BF090641.D

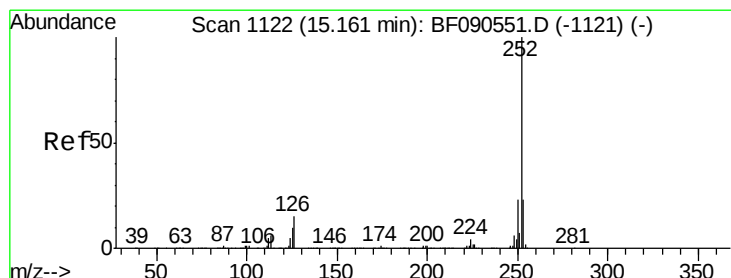
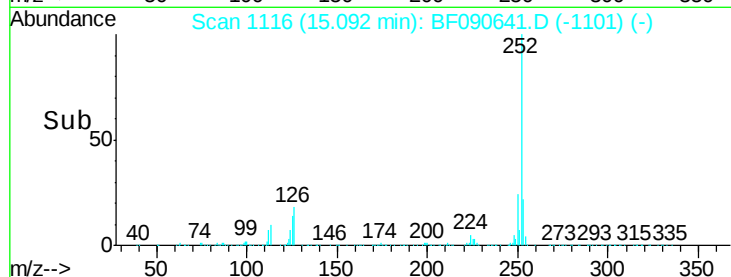
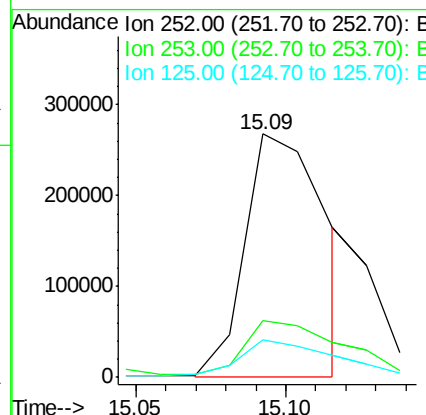
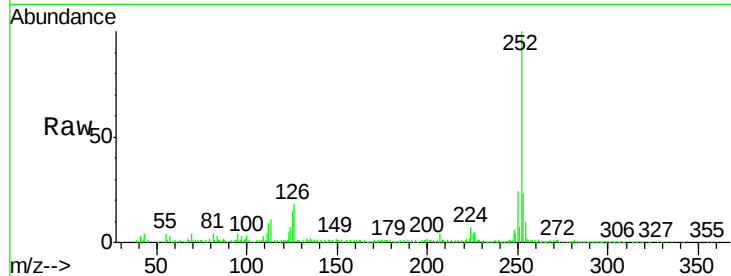
Acq: 19 Oct 2016 11:25

Instrument :  
BNA\_F  
ClientSampleId :  
SP-2-1DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.8  | 26.8  |
| 125     | 15.2  | 12.0  | 18.0  |

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#88

Benzo(k)fluoranthene

Concen: 3.41 ng m

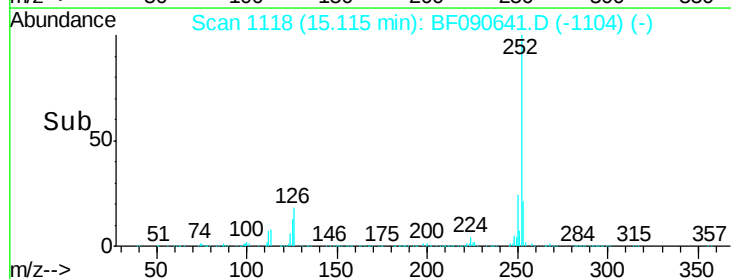
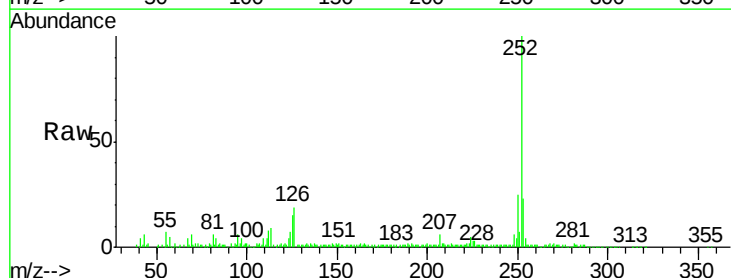
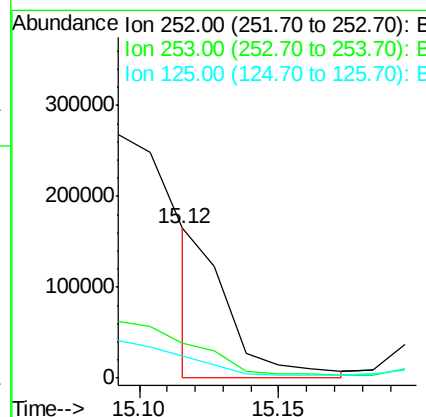
RT: 15.12 min Scan# 1118

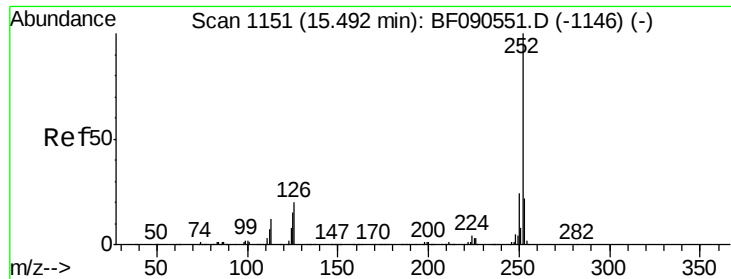
Delta R.T. -0.03 min

Lab File: BF090641.D

Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.0  | 27.0  |
| 125     | 14.6  | 10.0  | 15.0  |





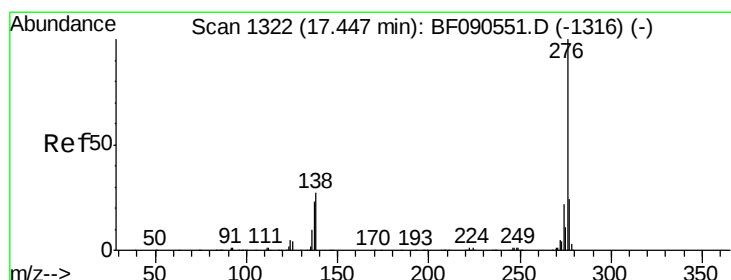
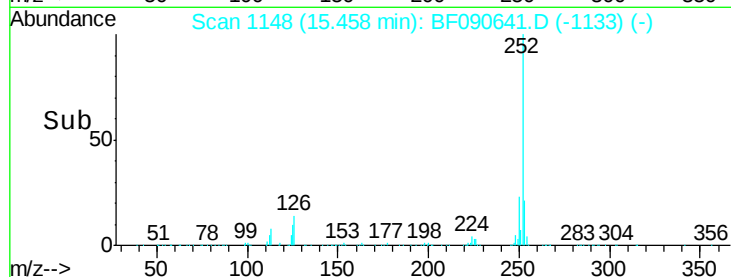
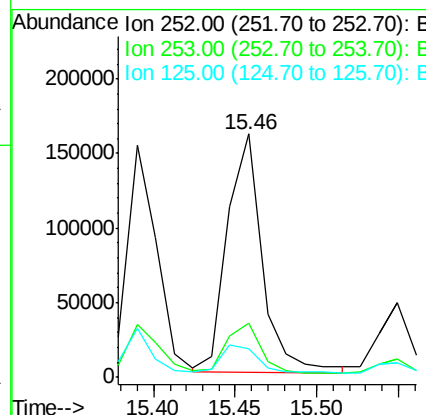
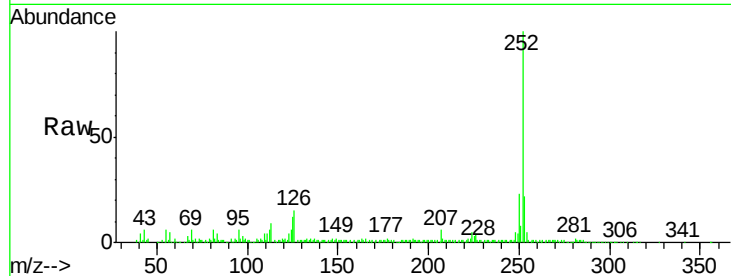
#89  
Benzo(a)pyrene  
Concen: 7.57 ng  
RT: 15.46 min Scan# 1148  
Delta R.T. -0.02 min  
Lab File: BF090641.D  
Acq: 19 Oct 2016 11:25

Instrument :  
BNA\_F  
ClientSampled :  
SP-2-1DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 22.2  | 17.9       | 26.9       |
| 125     | 11.6  | 12.3       | 18.5       |

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#91  
Benzo(g,h,i)perylene  
Concen: 6.55 ng  
RT: 17.38 min Scan# 1316  
Delta R.T. -0.05 min  
Lab File: BF090641.D  
Acq: 19 Oct 2016 11:25

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 277     | 23.8  | 18.8       | 28.2       |
| 138     | 27.2  | 21.8       | 32.8       |

