

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110816\  
 Data File : BF091097.D  
 Acq On : 8 Nov 2016 22:12  
 Operator : UM/SJ  
 Sample : H5537-07  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 V001-BF014-01

Manual Integrations  
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 11/9/2016 10:56:52 AM

Quant Time: Nov 09 02:36:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.66  | 152  | 186846   | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8          | 7.95  | 136  | 764466   | 20.00  | ng    | 0.00           |
| 38) Acenaphthene-d10        | 9.70  | 164  | 391600   | 20.00  | ng    | 0.00           |
| 63) Phenanthrene-d10        | 11.17 | 188  | 617441   | 20.00  | ng    | 0.00           |
| 75) Chrysene-d12            | 13.80 | 240  | 390207   | 20.00  | ng    | -0.01          |
| 86) Perylene-d12            | 15.17 | 264  | 329566   | 20.00  | ng    | -0.01          |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.25  | 112  | 1212127  | 107.14 | ng    | 0.01           |
| 7) Phenol-d6                | 6.32  | 99   | 1569433  | 102.20 | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 7.23  | 82   | 1057081  | 75.43  | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330  | 387257   | 109.39 | ng    | 0.00           |
| 44) 2-Fluorobiphenyl        | 9.02  | 172  | 1509021  | 66.34  | ng    | -0.01          |
| 78) Terphenyl-d14           | 12.76 | 244  | 1437968  | 91.96  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 10) Phenol                  | 6.33  | 94   | 140518   | 8.27   | ng    | Qvalue<br># 64 |
| 49) Dimethylphthalate       | 9.42  | 163  | 90203    | 3.51   | ng    | 99             |
| 70) Phenanthrene            | 11.20 | 178  | 75403    | 2.30   | ng    | 99             |
| 74) Fluoranthene            | 12.39 | 202  | 130436   | 3.83   | ng    | 90             |
| 77) Pyrene                  | 12.60 | 202  | 119956   | 4.69   | ng    | 97             |
| 80) Benzo(a)anthracene      | 13.79 | 228  | 54437    | 2.46   | ng    | 100            |
| 87) Benzo(b)fluoranthene    | 14.81 | 252  | 56366m   | 2.52   | ng    |                |

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

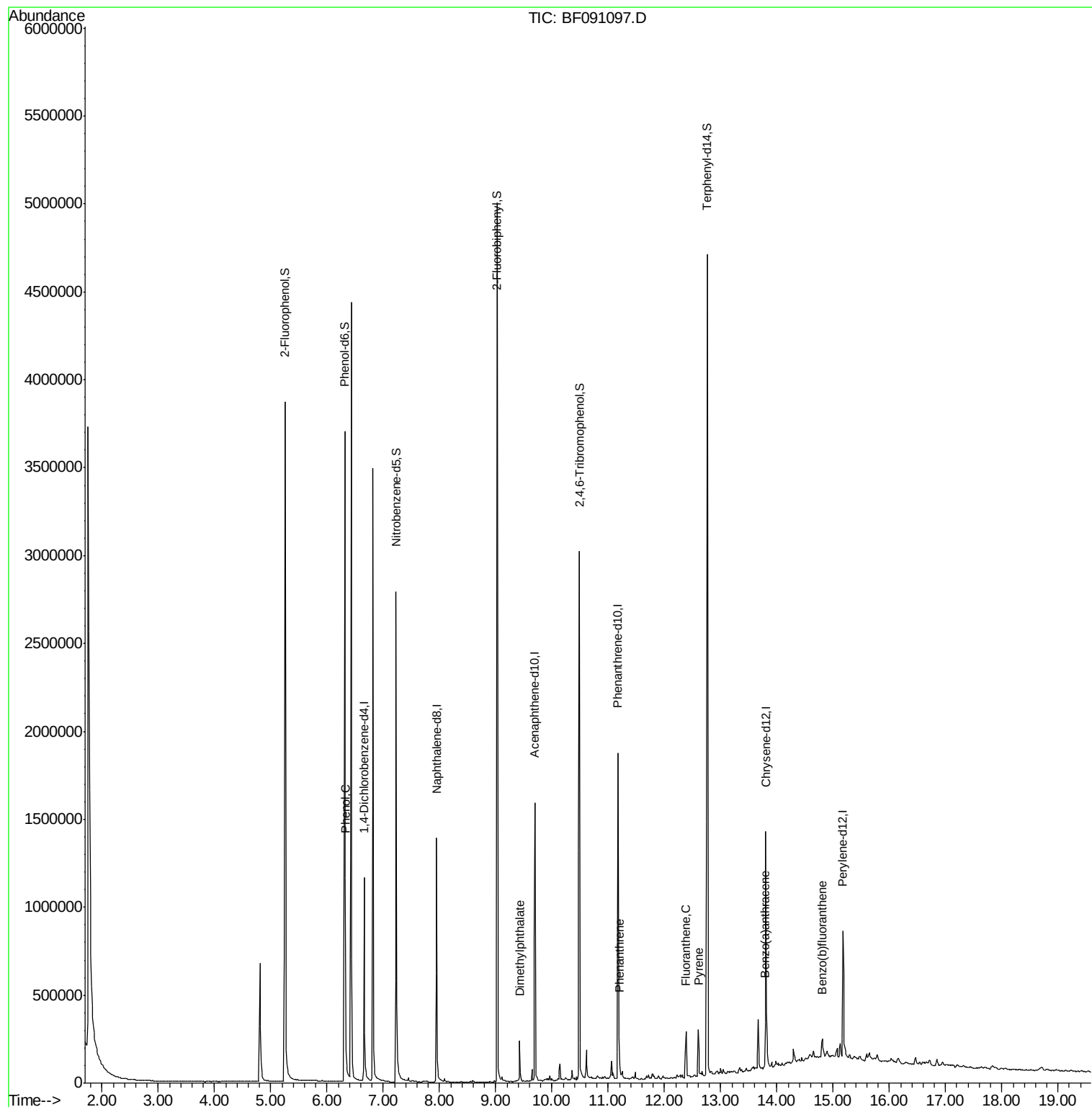
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110816\  
Data File : BF091097.D  
Acq On : 8 Nov 2016 22:12  
Operator : UM/SJ  
Sample : H5537-07  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

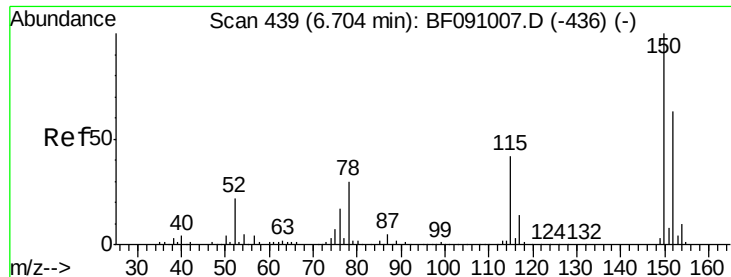
Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

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Quant Time: Nov 09 02:36:49 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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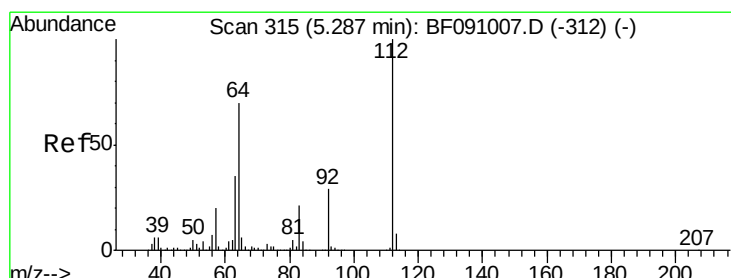
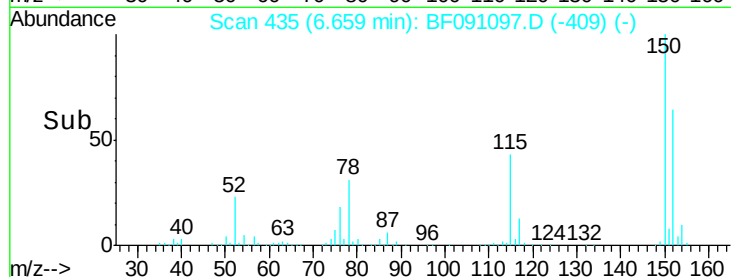
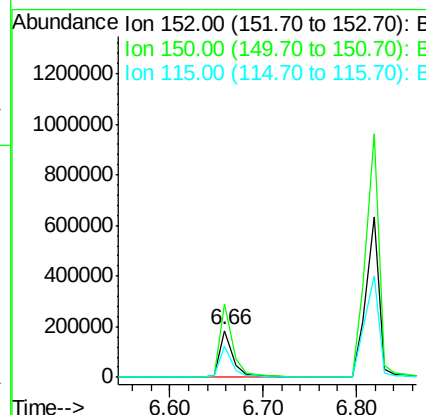
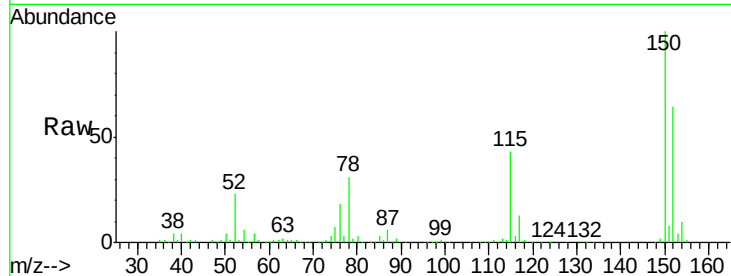
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.66 min Scan# 435  
 Delta R.T. 0.00 min  
 Lab File: BF091097.D  
 Acq: 8 Nov 2016 22:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 V001-BF014-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 126.8 | 190.2 |
| 115     | 67.6  | 53.3  | 79.9  |

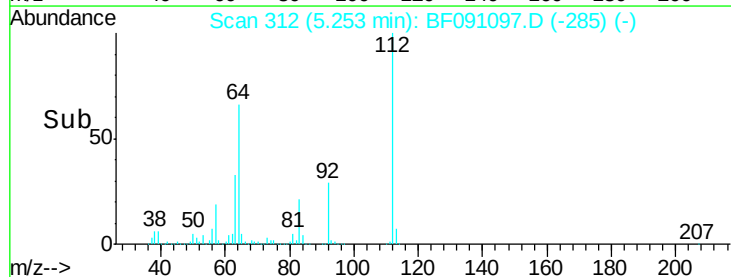
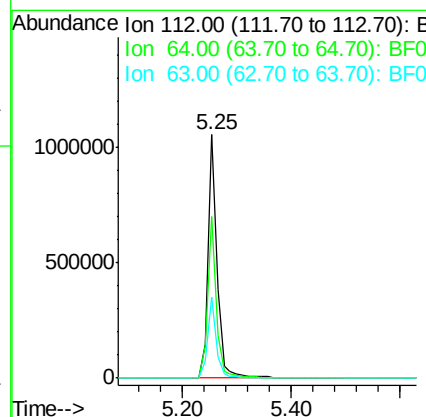
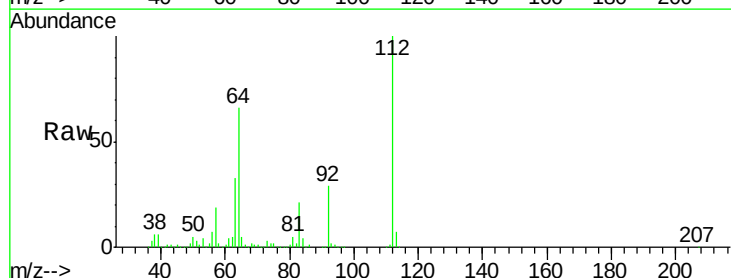
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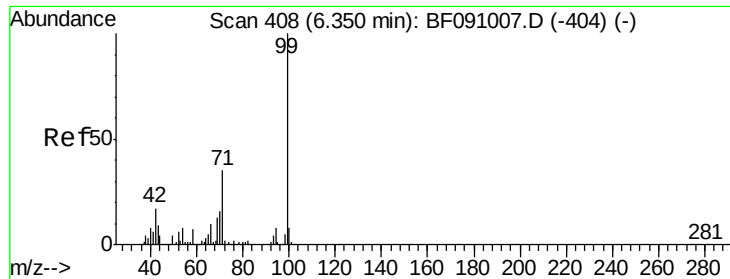
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#5  
 2-Fluorophenol  
 Concen: 107.14 ng  
 RT: 5.25 min Scan# 312  
 Delta R.T. 0.01 min  
 Lab File: BF091097.D  
 Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.2  | 55.8  | 83.6  |
| 63      | 33.5  | 28.0  | 42.0  |





#7

Phenol-d6

Concen: 102.20 ng

RT: 6.32 min Scan# 405

Delta R.T. 0.00 min

Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

Instrument :

BNA\_F

ClientSampleId :

V001-BF014-01

Tot Ion: 99 Resp: 1569433

Ion Ratio Lower Upper

99 100

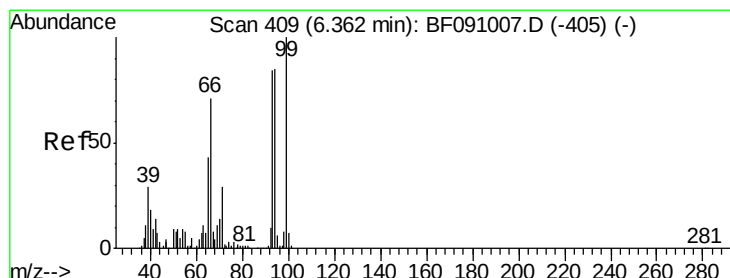
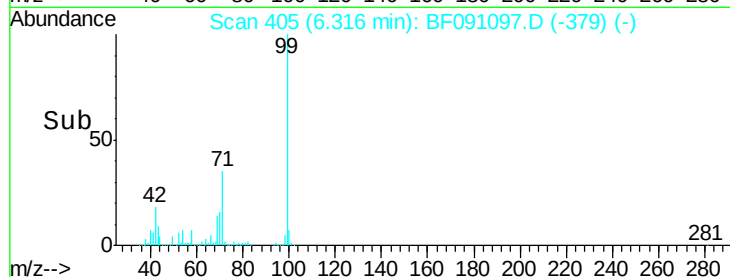
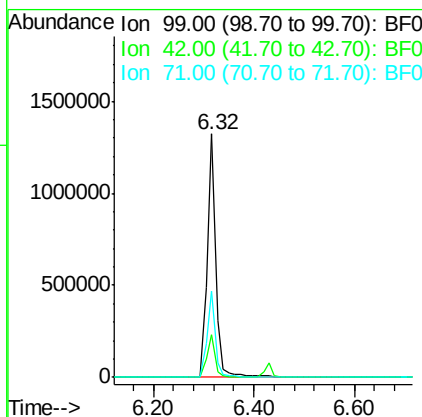
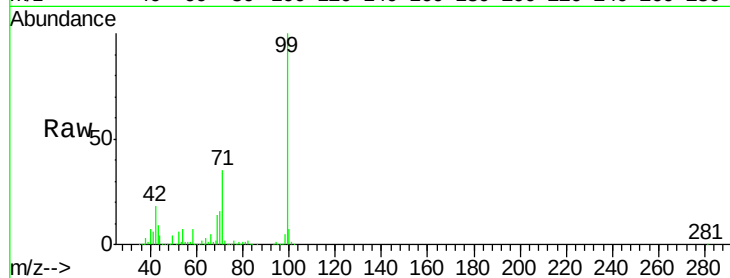
42 17.6 13.9 20.9

71 35.3 27.8 41.8

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#10

Phenol

Concen: 8.27 ng

RT: 6.33 min Scan# 406

Delta R.T. 0.00 min

Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

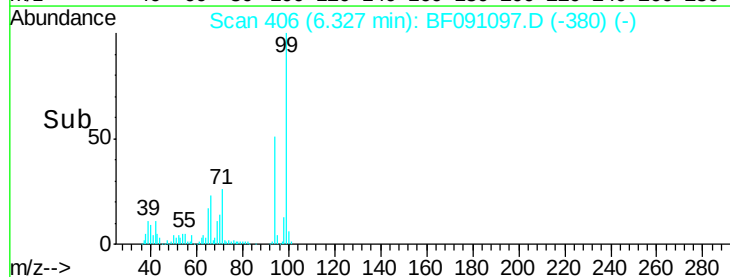
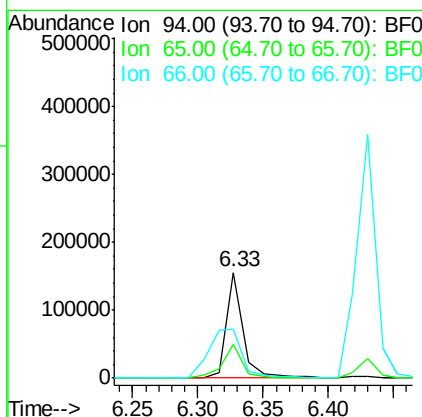
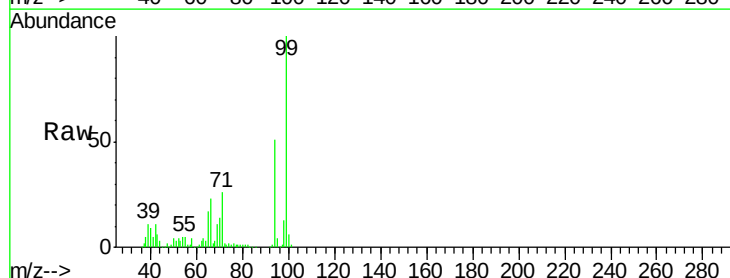
Tgt Ion: 94 Resp: 140518

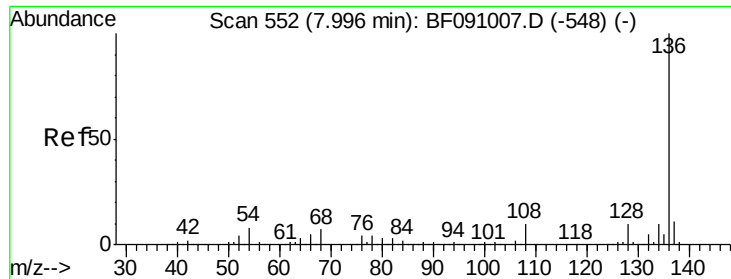
Ion Ratio Lower Upper

94 100

65 32.4 30.4 70.4

66 45.7 62.9 102.9#





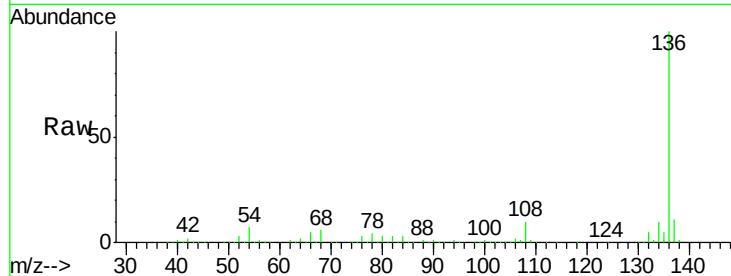
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.95 min Scan# 548  
Delta R.T. 0.00 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

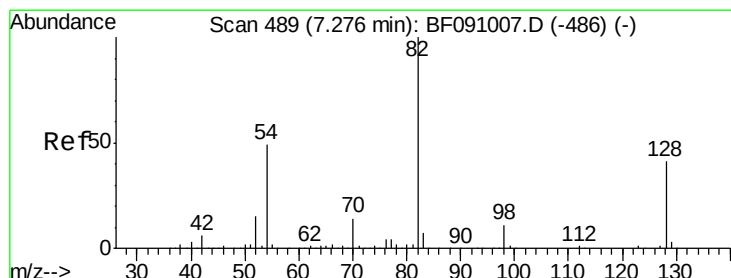
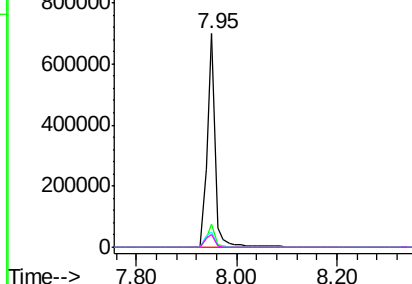
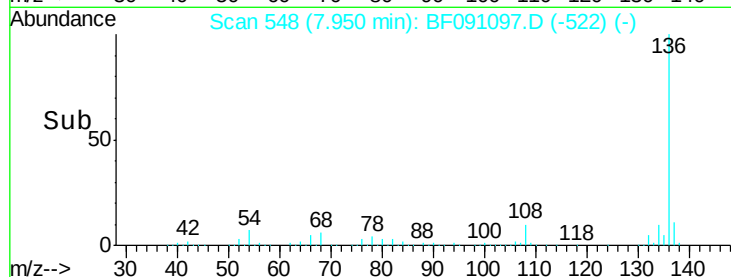
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.9  | 8.9   | 13.3  |
| 54      | 7.0   | 6.2   | 9.2   |
| 68      | 6.1   | 5.5   | 8.3   |

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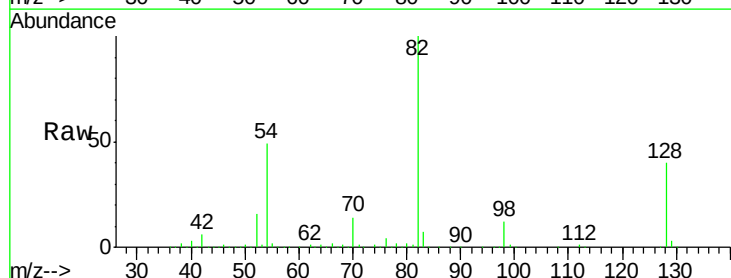


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

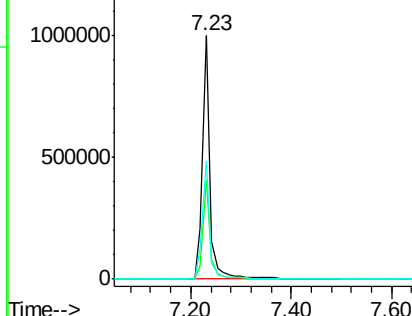
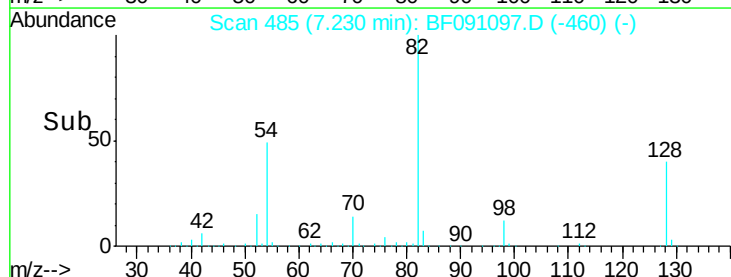


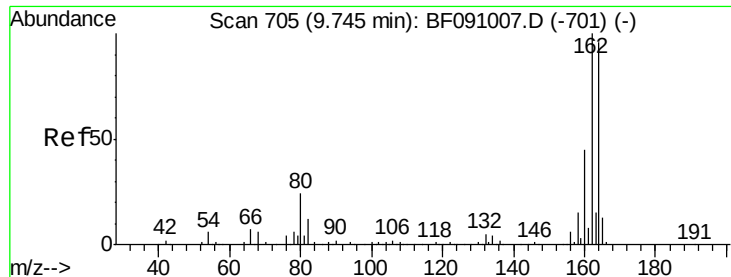
#23  
Nitrobenzene-d5  
Concen: 75.43 ng  
RT: 7.23 min Scan# 485  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.4  | 32.4  | 48.6  |
| 54      | 48.7  | 39.2  | 58.8  |



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





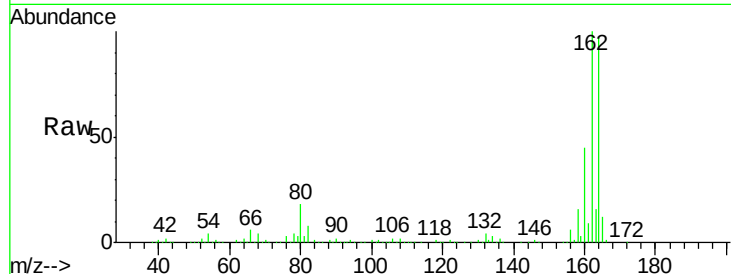
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.70 min Scan# 701  
Delta R.T. 0.00 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

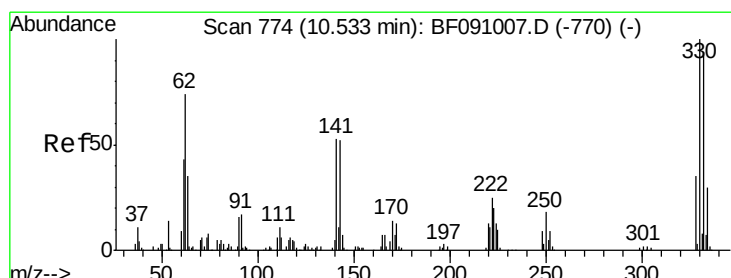
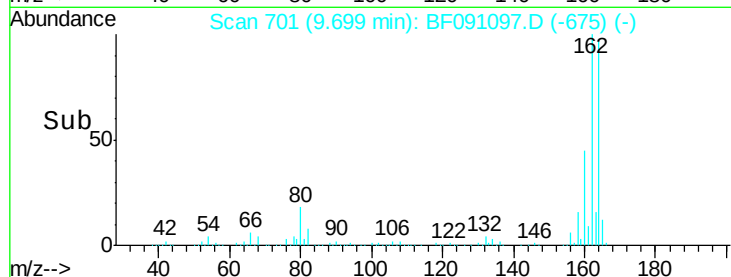
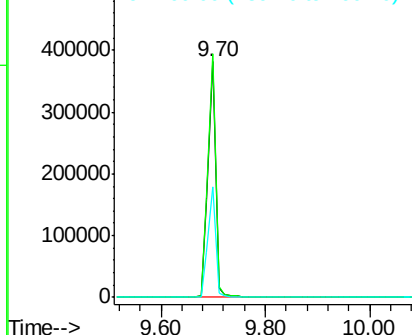
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 103.4 | 83.6 | 125.4 |       |
| 160     | 47.0  | 37.9 | 56.9  |       |

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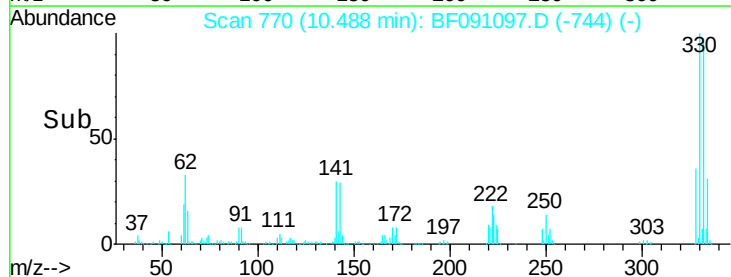
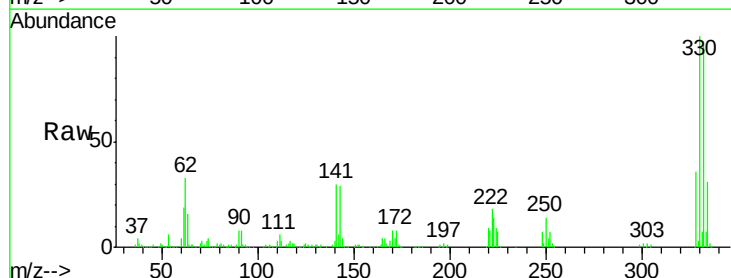
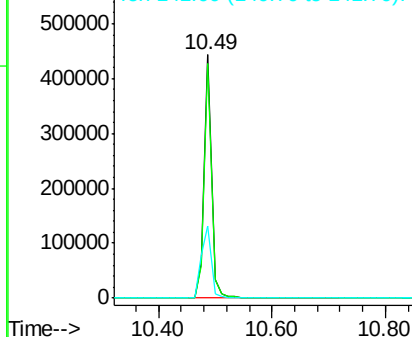
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

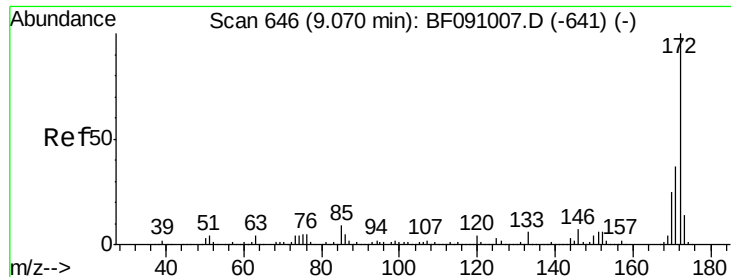


#41  
2,4,6-Tribromophenol  
Concen: 109.39 ng  
RT: 10.49 min Scan# 770  
Delta R.T. 0.00 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.5  | 75.9 | 113.9 |       |
| 141     | 40.6  | 36.1 | 54.1  |       |

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





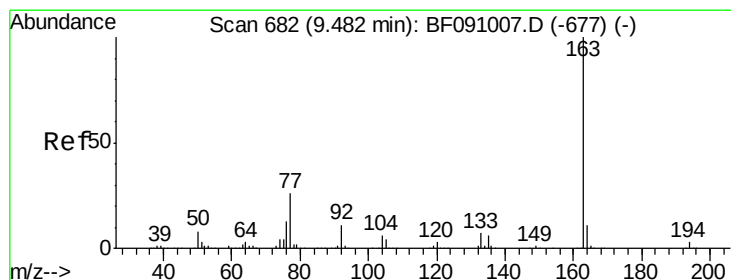
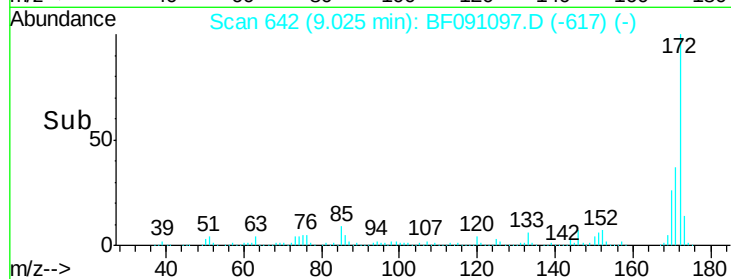
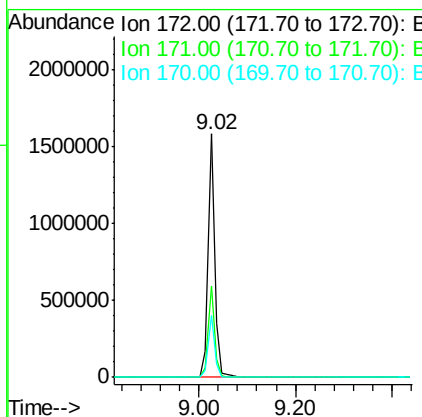
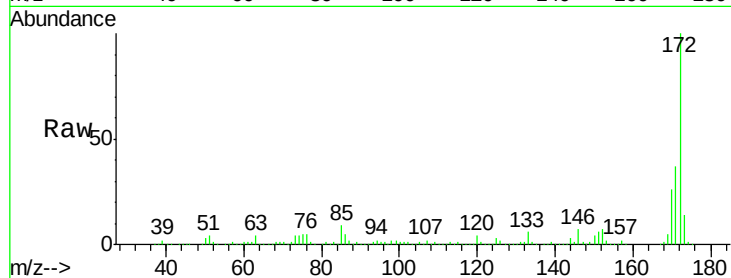
#44  
2-Fluorobiphenyl  
Concen: 66.34 ng  
RT: 9.02 min Scan# 642  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 29.8  | 44.6  |
| 170     | 25.6  | 20.3  | 30.5  |

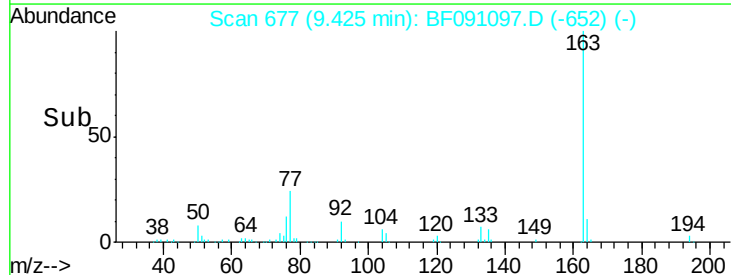
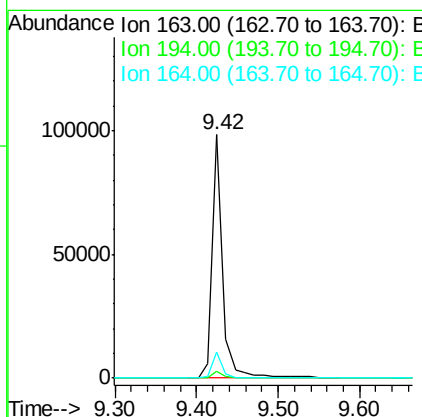
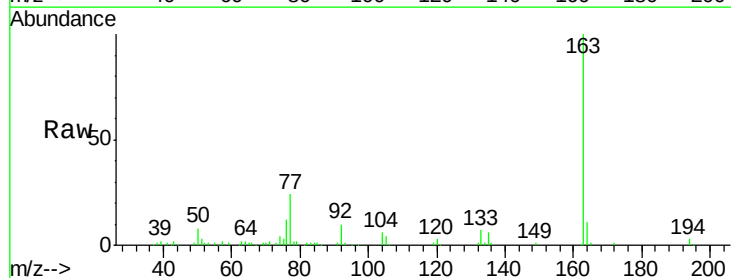
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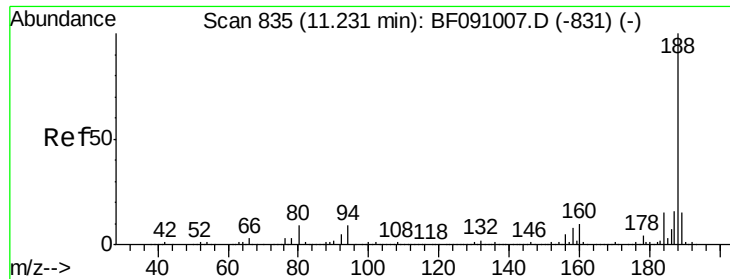
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#49  
Dimethylphthalate  
Concen: 3.51 ng  
RT: 9.42 min Scan# 677  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.0   | 2.6   | 4.0   |
| 164     | 10.5  | 8.7   | 13.1  |





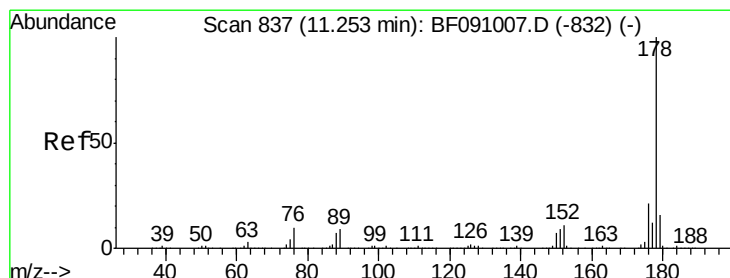
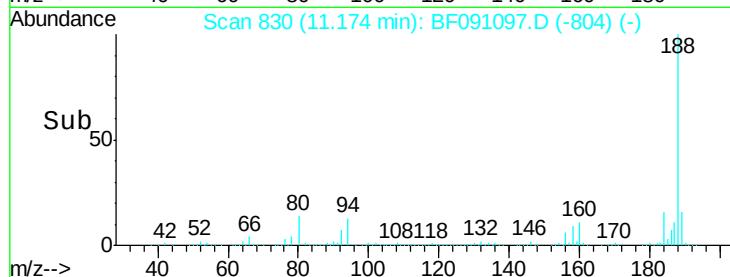
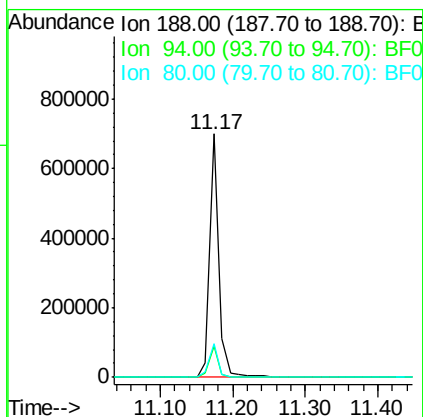
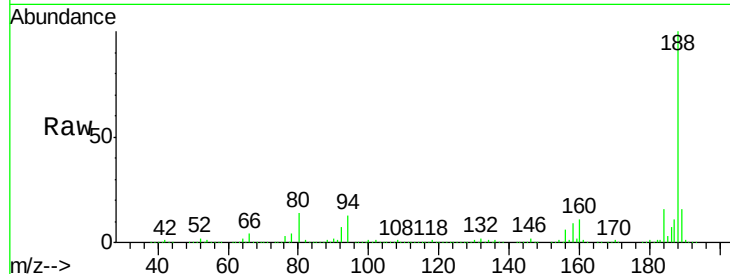
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.17 min Scan# 830  
Delta R.T. 0.00 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 617441 |       |       |
| 94      | 12.6  | 7.0    | 10.4  |       |
| 80      | 13.7  | 7.5    | 11.3  |       |

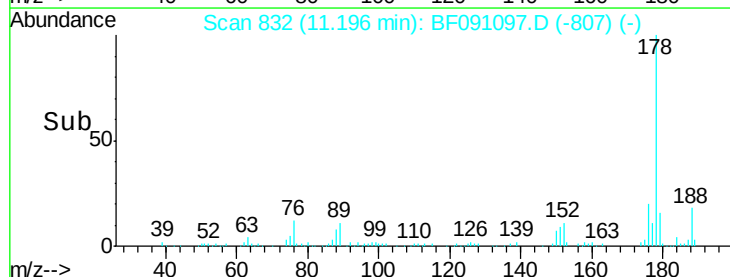
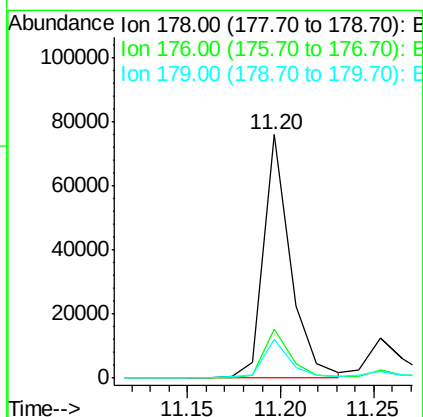
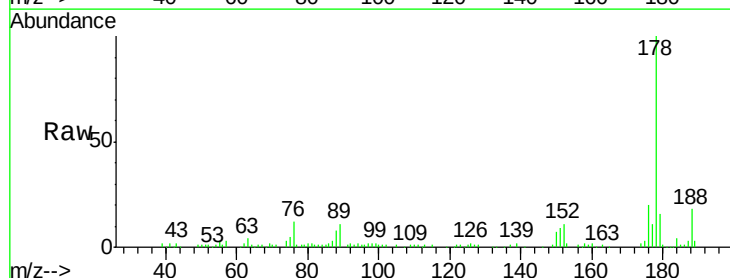
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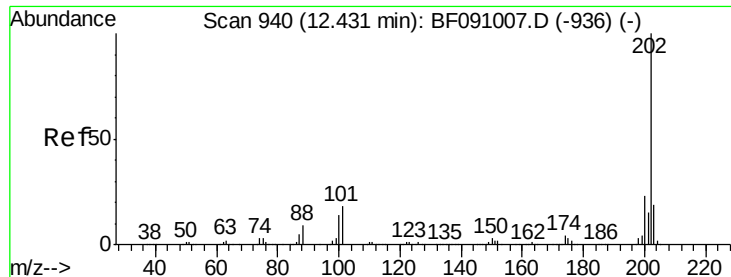


#70  
Phenanthrene  
Concen: 2.30 ng  
RT: 11.20 min Scan# 832  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 75403 |       |       |
| 176     | 20.3  | 16.6  | 25.0  |       |
| 179     | 15.9  | 12.9  | 19.3  |       |







#74

Fluoranthene

Concen: 3.83 ng

RT: 12.39 min Scan# 936

Delta R.T. 0.00 min

Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

Instrument :

BNA\_F

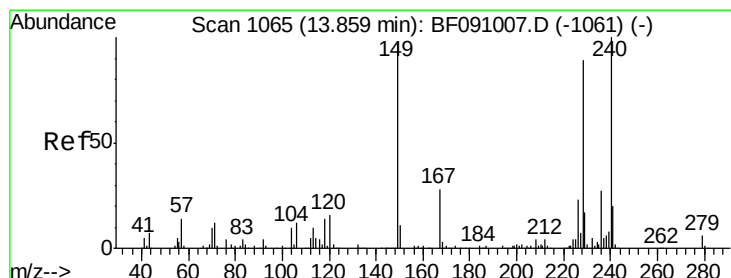
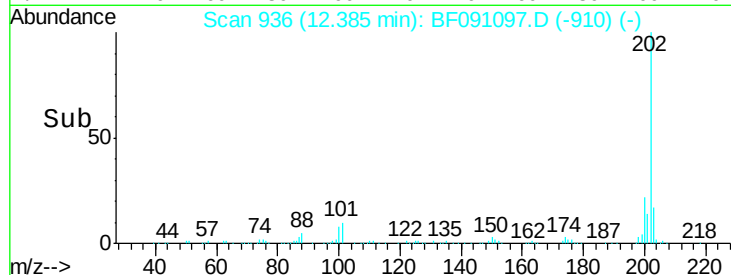
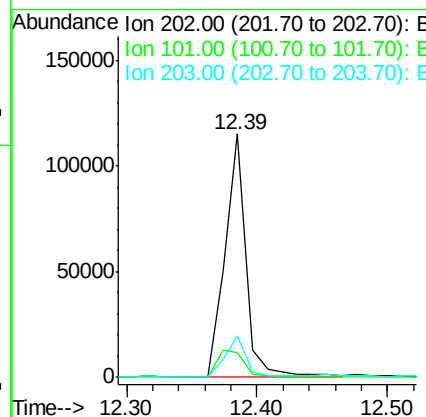
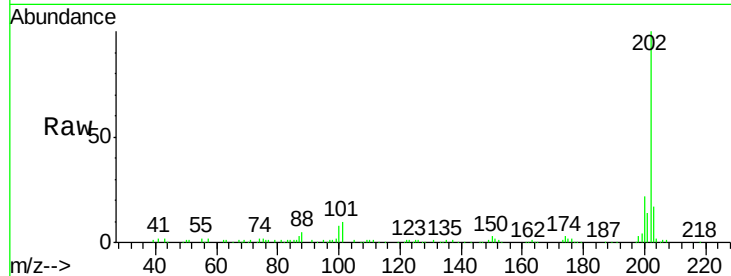
ClientSampleId :

V001-BF014-01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 130436 |       |       |
| 101     | 10.4  | 0.0    | 37.6  |       |
| 203     | 16.9  | 0.0    | 38.6  |       |

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#75

Chrysene-d12

Concen: 20.00 ng

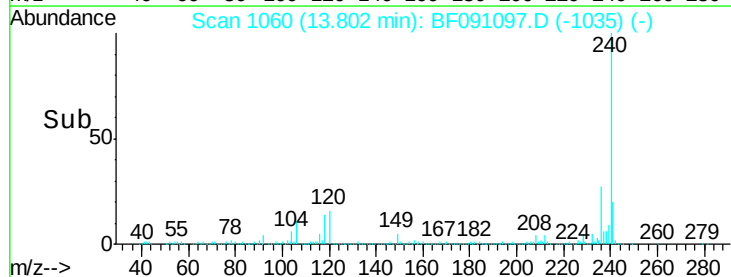
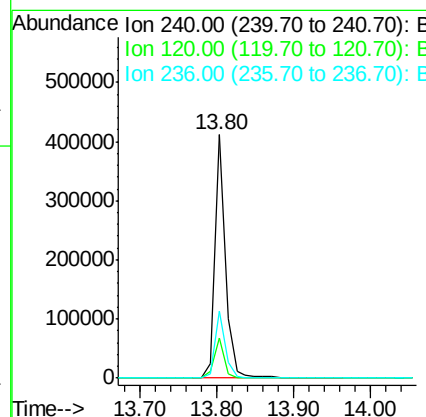
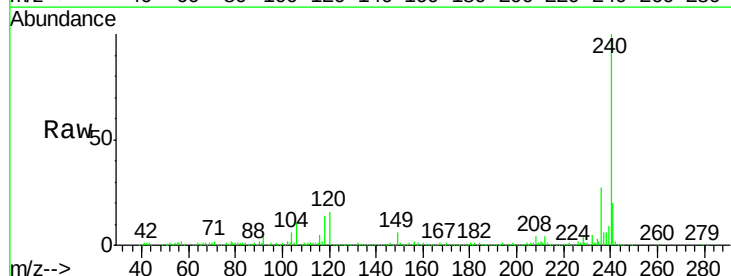
RT: 13.80 min Scan# 1060

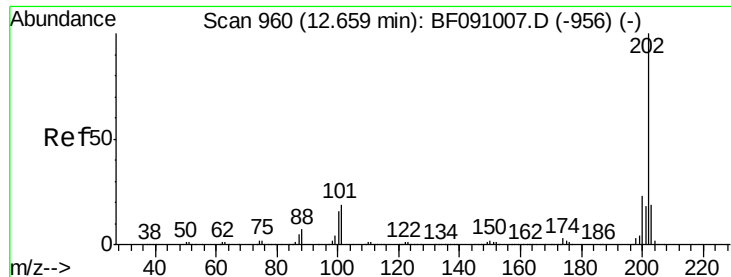
Delta R.T. -0.01 min

Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 390207 |       |       |
| 120     | 16.3  | 12.9   | 19.3  |       |
| 236     | 27.5  | 21.9   | 32.9  |       |





#77

Pvrene

Concen: 4.69 ng

RT: 12.60 min Scan# 955

Delta R.T. -0.01 min

Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

Instrument :

BNA\_F

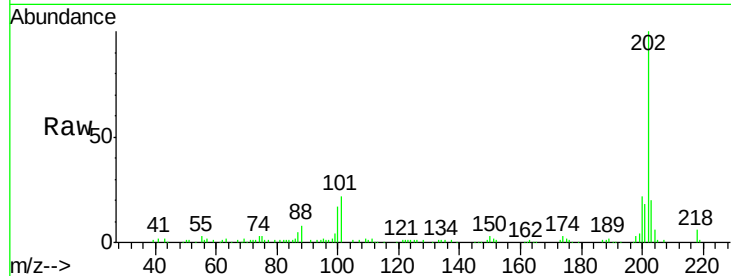
ClientSampleId :

V001-BF014-01

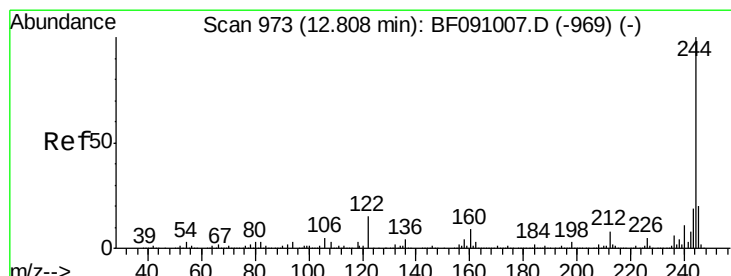
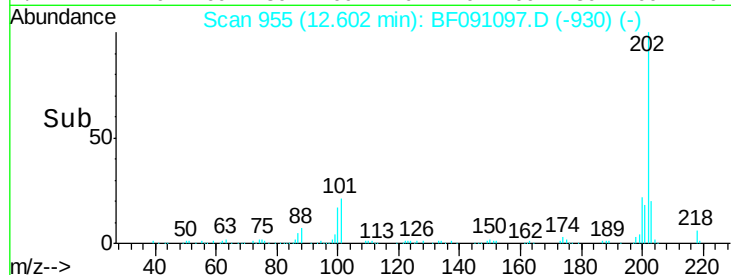
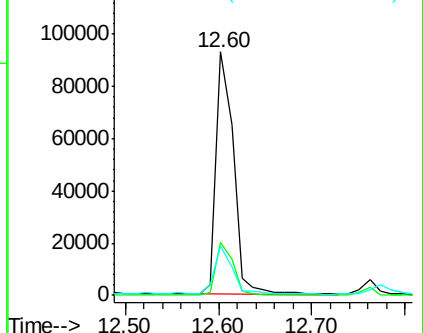
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 119956 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.6  | 18.4  | 27.6   |
| 203       | 20.3  | 15.0  | 22.6   |

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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: 91.96 ng

RT: 12.76 min Scan# 969

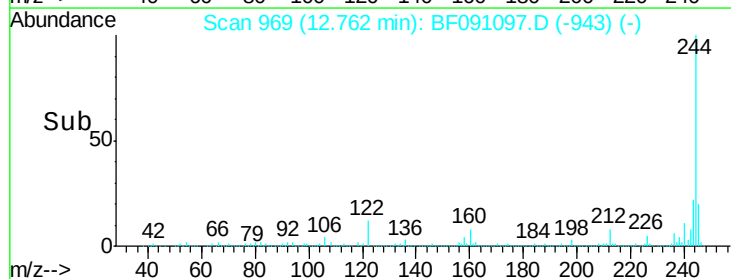
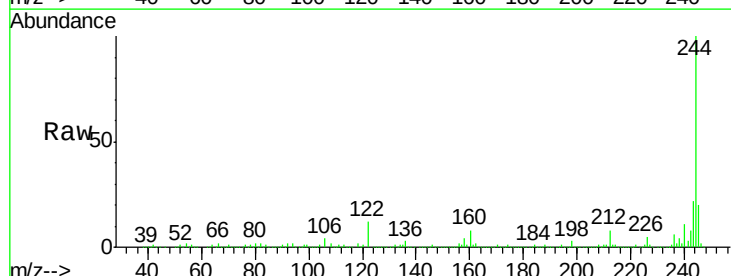
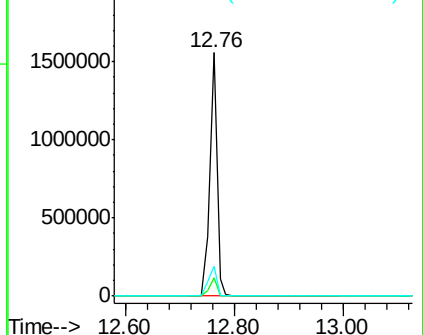
Delta R.T. 0.00 min

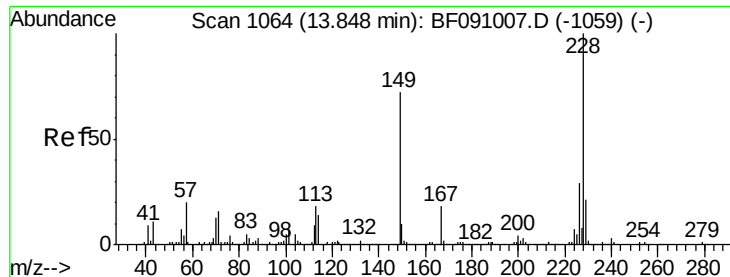
Lab File: BF091097.D

Acq: 8 Nov 2016 22:12

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1437968 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.6   | 6.4   | 9.6     |
| 122       | 12.1  | 12.3  | 18.5#   |

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





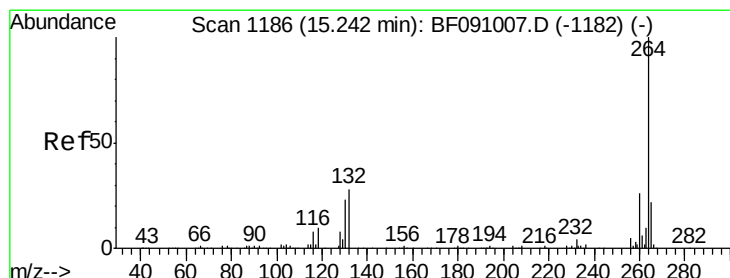
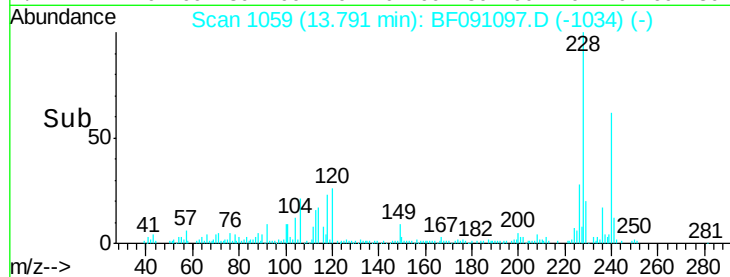
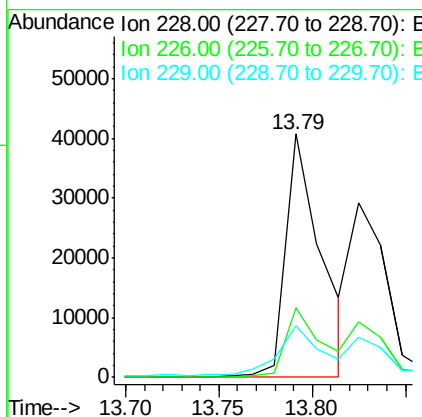
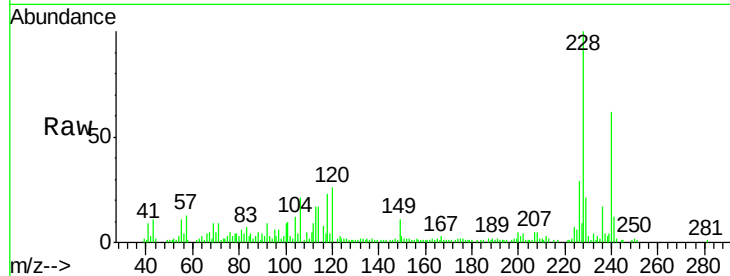
#80  
Benzo(a)anthracene  
Concen: 2.46 ng  
RT: 13.79 min Scan# 1059  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

Instrument :  
BNA\_F  
ClientSampleId :  
V001-BF014-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 23.0  | 34.6  |
| 229     | 21.0  | 16.6  | 24.8  |

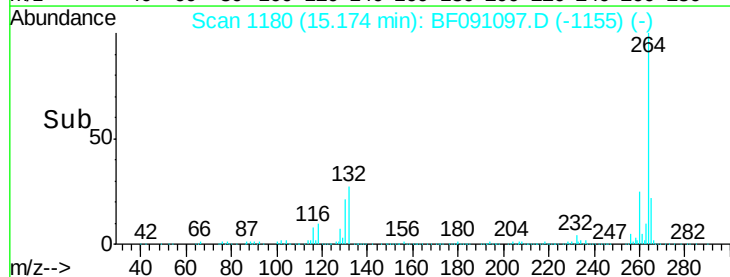
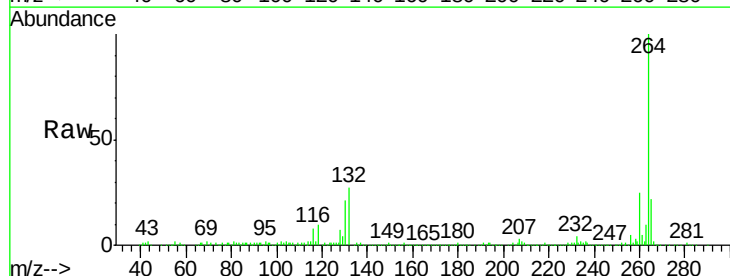
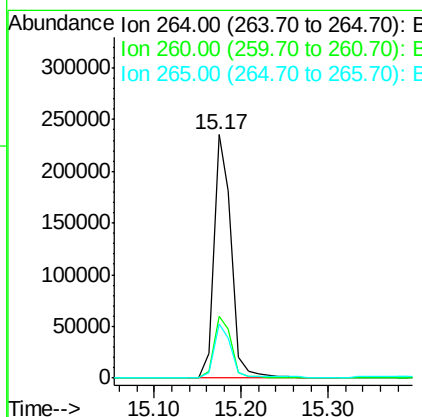
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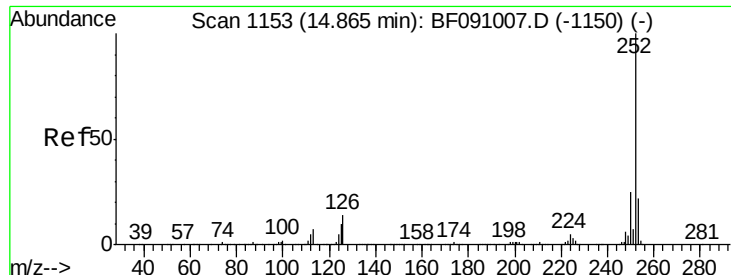
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.17 min Scan# 1180  
Delta R.T. -0.01 min  
Lab File: BF091097.D  
Acq: 8 Nov 2016 22:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 20.6  | 30.8  |
| 265     | 22.2  | 17.8  | 26.8  |





#87  
 Benzo(b)fluoranthene  
 Concen: 2.52 ng m  
 RT: 14.81 min Scan# 1148  
 Delta R.T. 0.00 min  
 Lab File: BF091097.D  
 Acq: 8 Nov 2016 22:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 V001-BF014-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.0  | 27.0  |
| 125     | 16.4  | 8.3   | 12.5  |

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