

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\  
 Data File : BF089530.D  
 Acq On : 2 Aug 2016 00:56  
 Operator : UM/SJ  
 Sample : H4287-18  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-63-0.5-1.5

Manual Integrations  
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Quant Time: Aug 02 03:46:40 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 02 02:21:57 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.48  | 152  | 37611    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.77  | 136  | 137315   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.51  | 164  | 57690    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 10.98 | 188  | 98615    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.60 | 240  | 93259    | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 14.93 | 264  | 90071    | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.05  | 112  | 214719   | 91.16 | ng    | 0.01     |
| 7) Phenol-d6                | 6.15  | 99   | 281709   | 90.50 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.05  | 82   | 172476   | 74.14 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 42388    | 88.72 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.84  | 172  | 300320   | 76.40 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.56 | 244  | 227806   | 57.17 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.24  | 163  | 98682    | 22.48 | ng    | 99       |
| 70) Phenanthrene            | 11.00 | 178  | 17327    | 3.41  | ng    | 99       |
| 74) Fluoranthene            | 12.18 | 202  | 27994    | 5.23  | ng    | 100      |
| 77) Pyrene                  | 12.40 | 202  | 23261    | 3.29  | ng    | 96       |
| 80) Benzo(a)anthracene      | 13.59 | 228  | 11853    | 2.25  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 14.59 | 252  | 17528m   | 3.13  | ng    |          |
| 89) Benzo(a)pyrene          | 14.88 | 252  | 10273    | 2.05  | ng    | 97       |

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

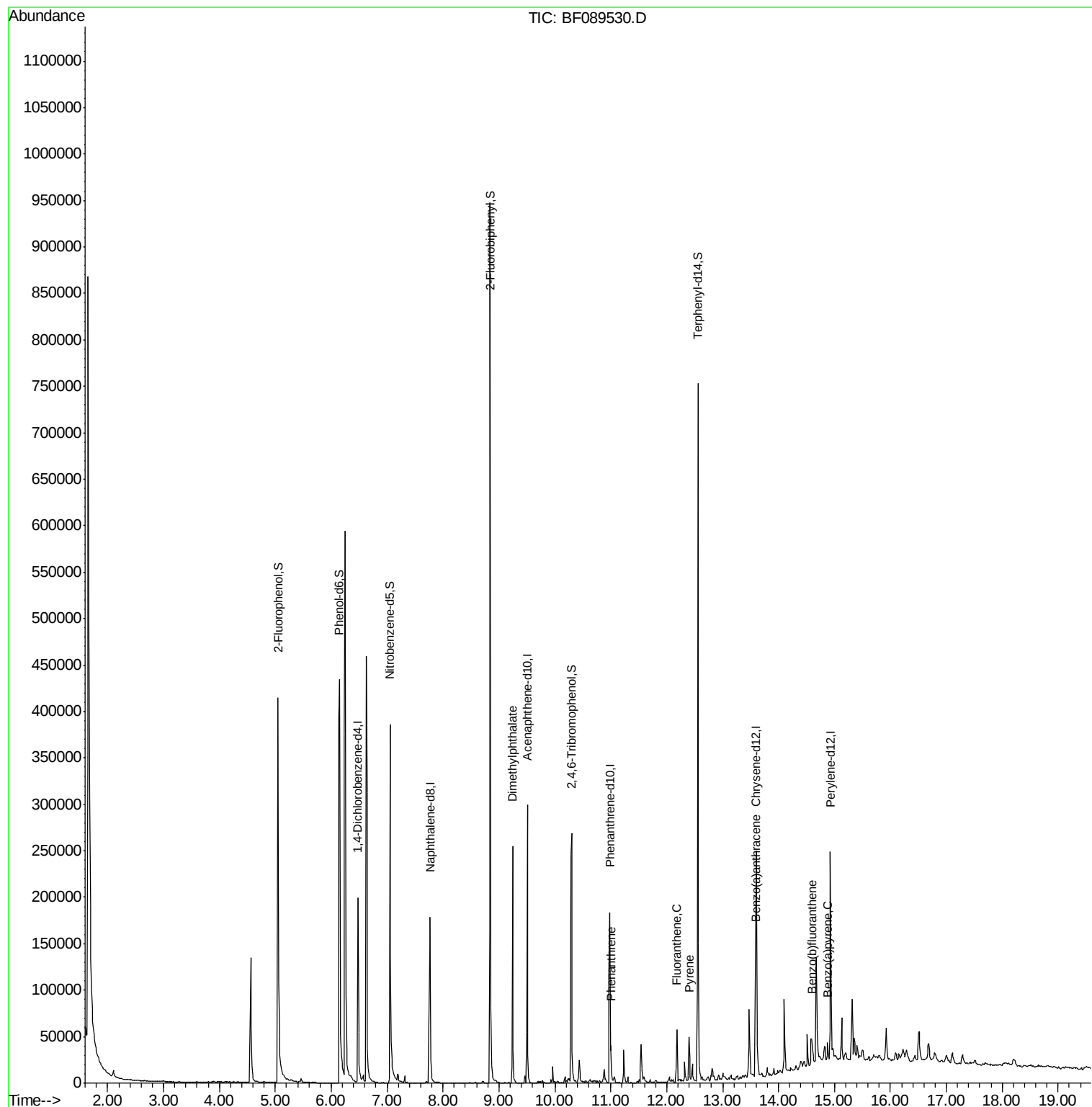
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080116\  
Data File : BF089530.D  
Acq On : 2 Aug 2016 00:56  
Operator : UM/SJ  
Sample : H4287-18  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

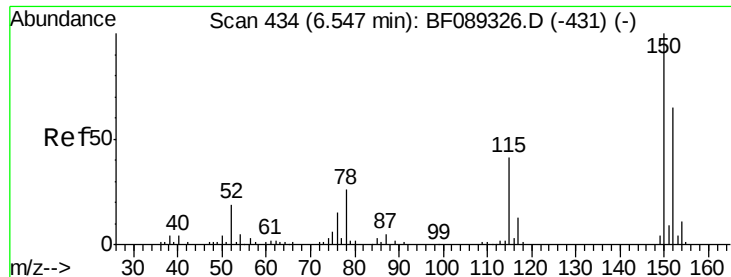
Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

Manual Integrations  
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Quant Time: Aug 02 03:46:40 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 02 02:21:57 2016  
Response via : Initial Calibration





#1

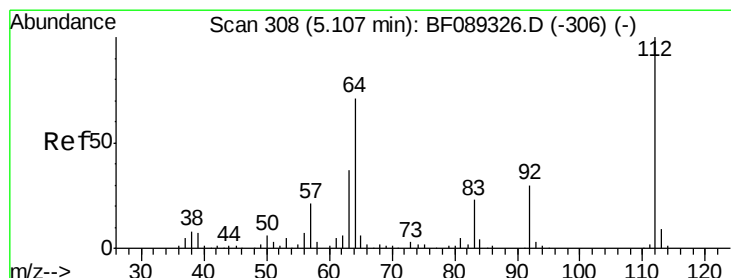
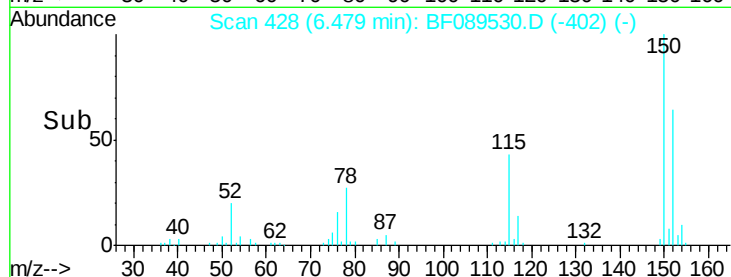
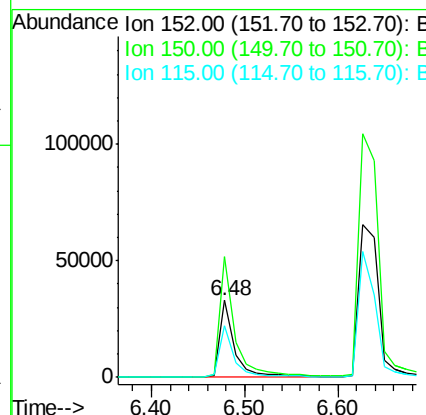
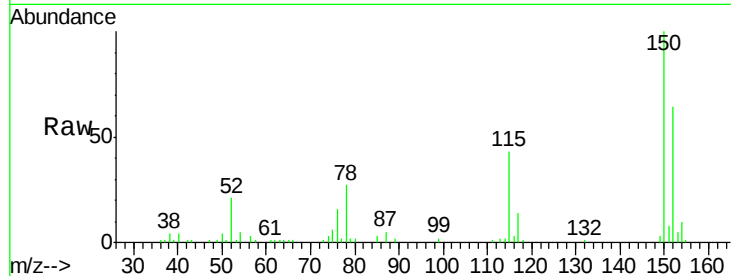
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.48 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 129.5 | 194.3 |
| 115     | 67.0  | 51.4  | 77.2  |

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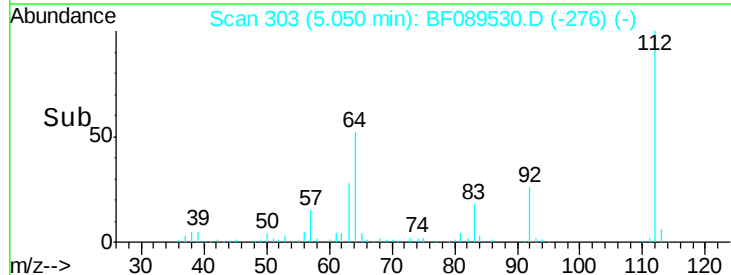
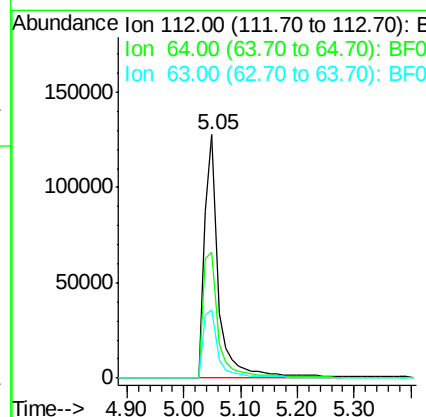
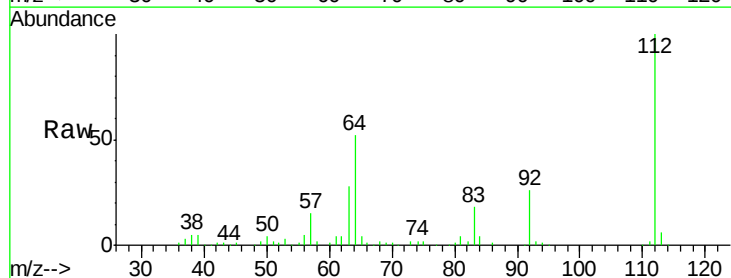
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#5

2-Fluorophenol  
Concen: 91.16 ng  
RT: 5.05 min Scan# 303  
Delta R.T. 0.01 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.7  | 55.0  | 82.6# |
| 63      | 28.3  | 29.4  | 44.2# |





#7

Phenol-d6

Concen: 90.50 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.00 min

Lab File: BF089530.D

Acq: 2 Aug 2016 00:56

Instrument :

BNA\_F

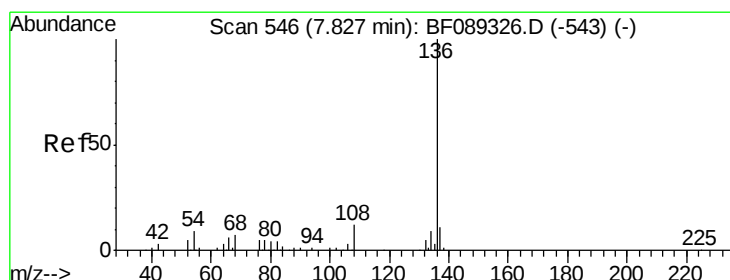
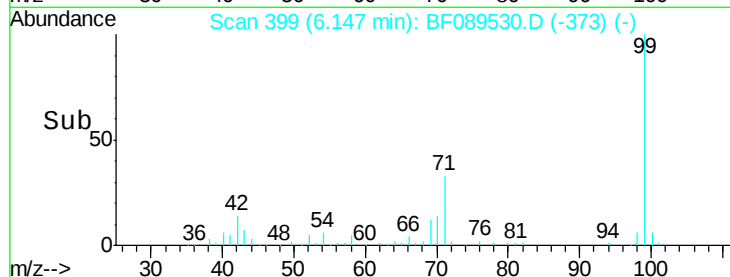
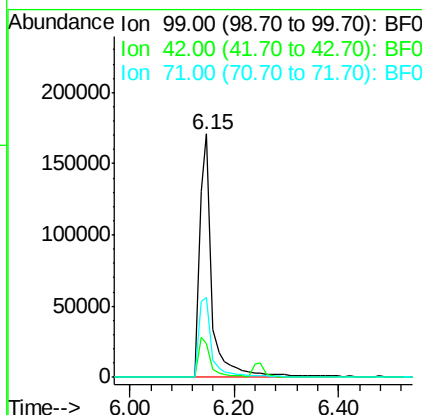
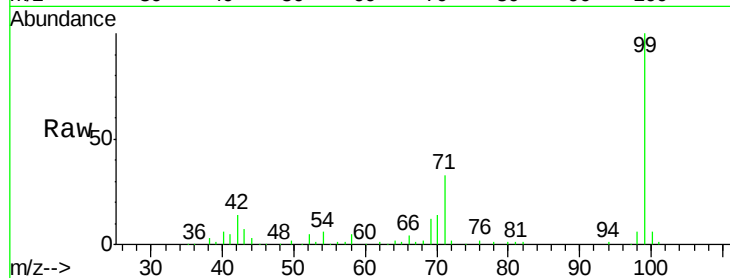
ClientSampleId :

SB-63-0.5-1.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 281709 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 14.1  | 13.6  | 20.4   |
| 71        | 32.8  | 29.4  | 44.2   |

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#21

Naphthalene-d8

Concen: 20.00 ng

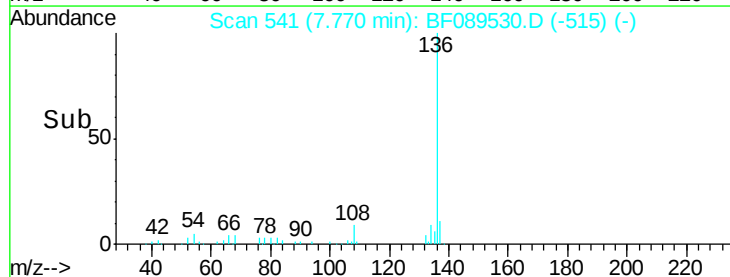
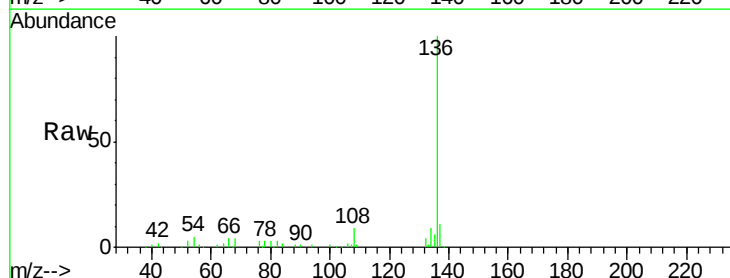
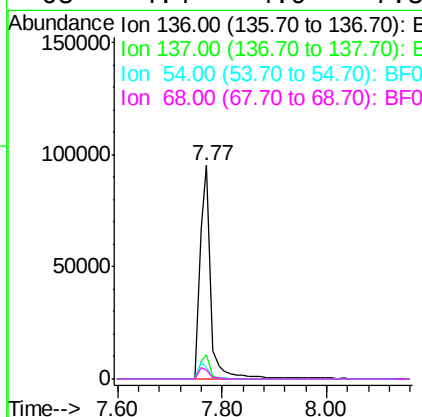
RT: 7.77 min Scan# 541

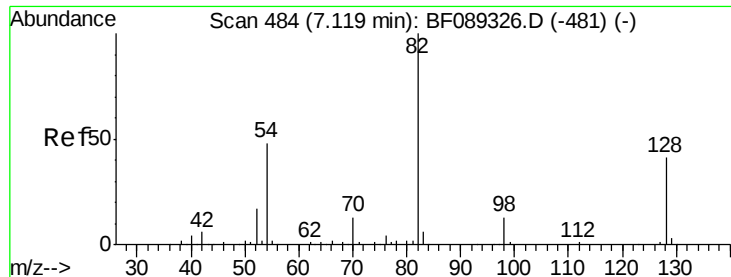
Delta R.T. -0.00 min

Lab File: BF089530.D

Acq: 2 Aug 2016 00:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 137315 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.6   | 13.0   |
| 54        | 5.4   | 7.0   | 10.4#  |
| 68        | 4.4   | 4.9   | 7.3#   |





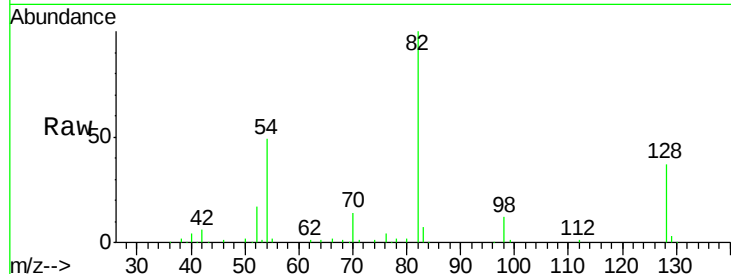
#23  
 Nitrobenzene-d5  
 Concen: 74.14 ng  
 RT: 7.05 min Scan# 478  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-63-0.5-1.5

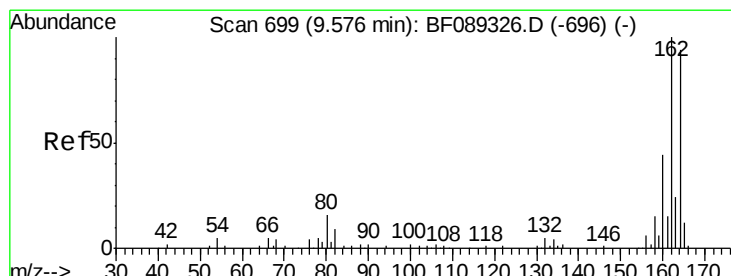
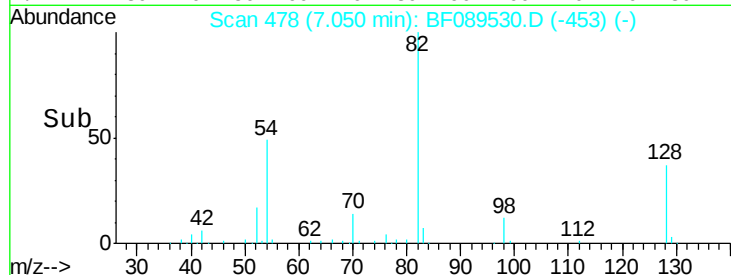
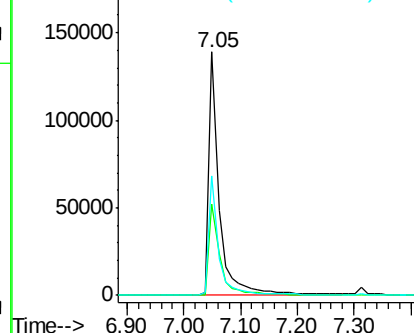
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.5  | 32.5  | 48.7  |
| 54      | 49.1  | 38.8  | 58.2  |

Manual Integrations  
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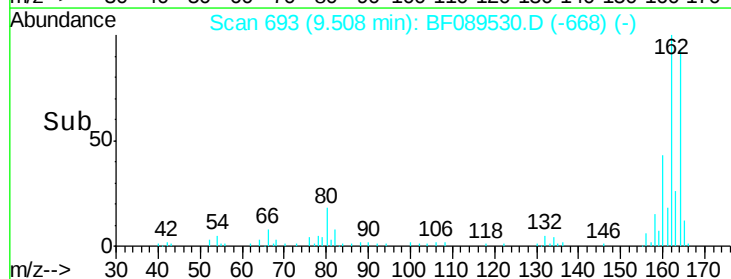
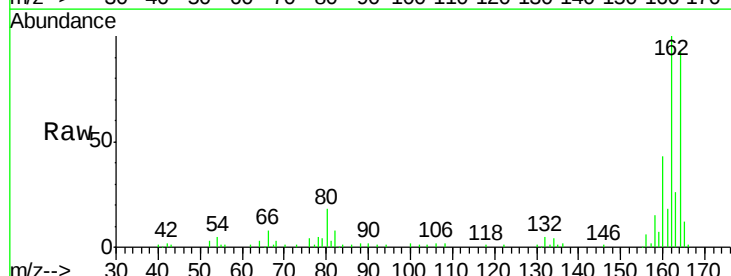
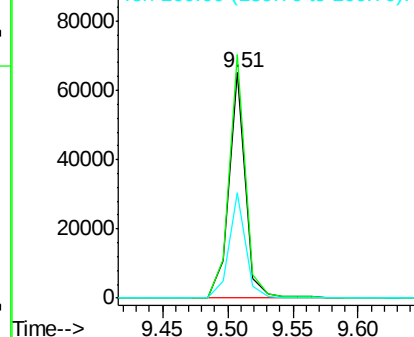
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

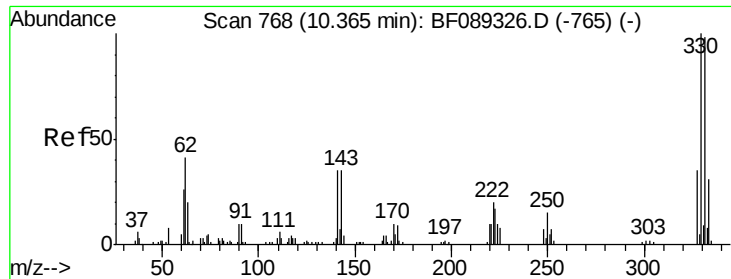


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.51 min Scan# 693  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.9 | 83.7  | 125.5 |
| 160     | 46.5  | 37.8  | 56.6  |

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





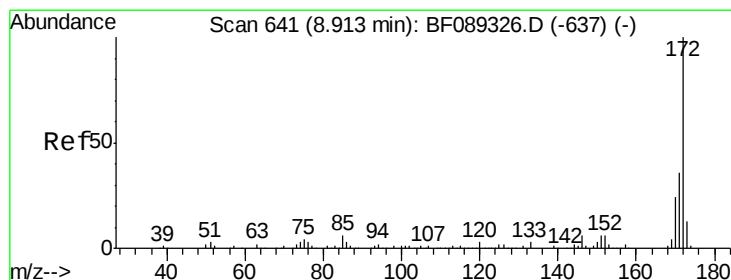
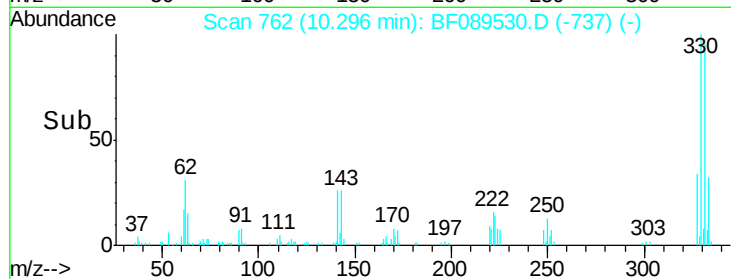
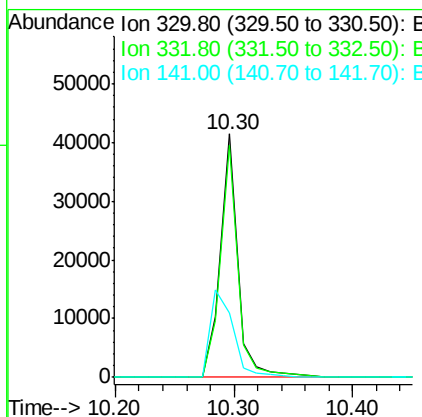
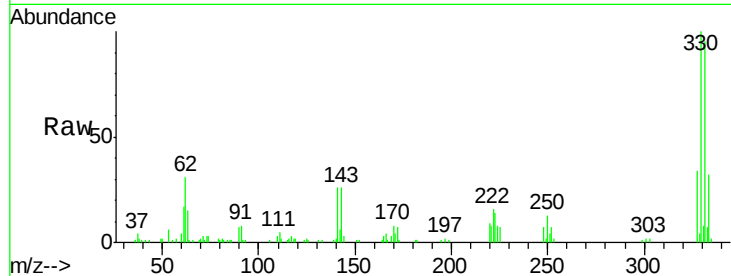
#41  
 2,4,6-Tribromophenol  
 Concen: 88.72 ng  
 RT: 10.30 min Scan# 762  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.9  | 76.8  | 115.2 |
| 141     | 46.8  | 37.3  | 55.9  |

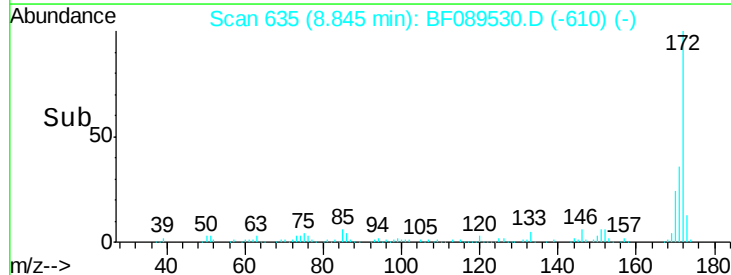
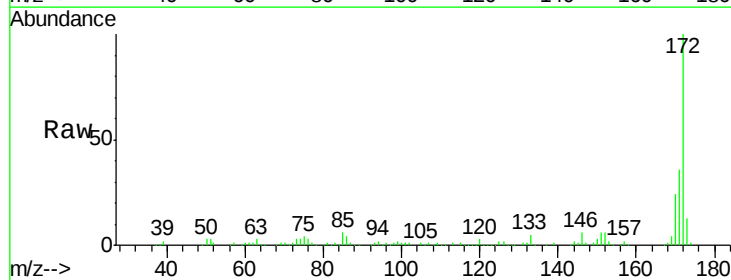
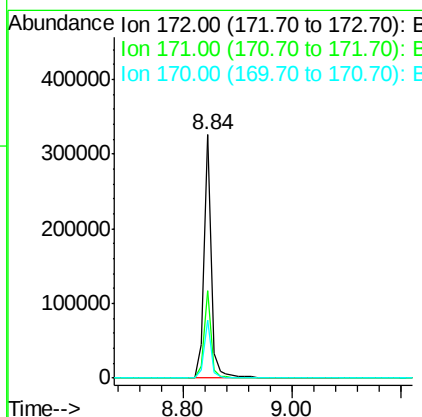
Manual Integrations  
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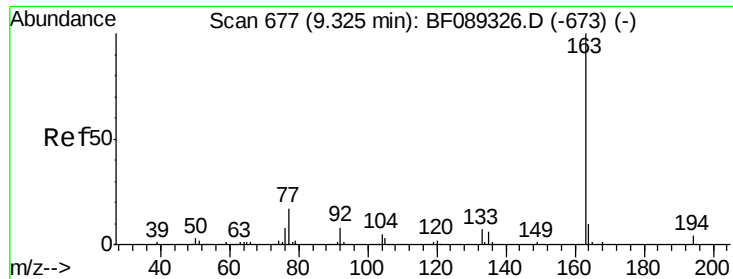
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#44  
 2-Fluorobiphenyl  
 Concen: 76.40 ng  
 RT: 8.84 min Scan# 635  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.2  | 43.8  |
| 170     | 23.9  | 19.2  | 28.8  |





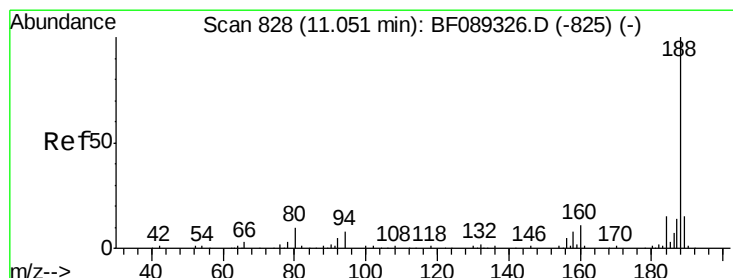
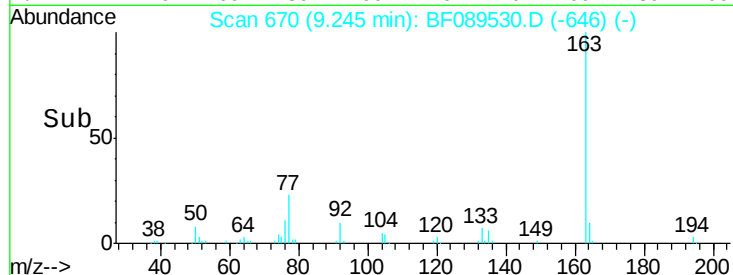
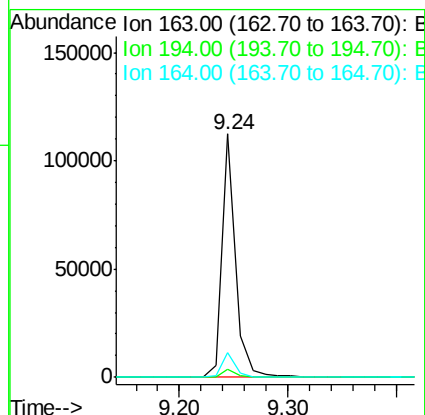
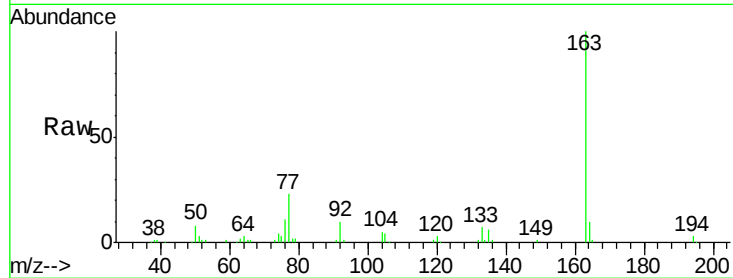
#49  
Dimethylphthalate  
Concen: 22.48 ng  
RT: 9.24 min Scan# 670  
Delta R.T. -0.02 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 98682 |       |       |
| 194     | 3.1   |       | 2.8   | 4.2   |
| 164     | 10.1  |       | 7.8   | 11.8  |

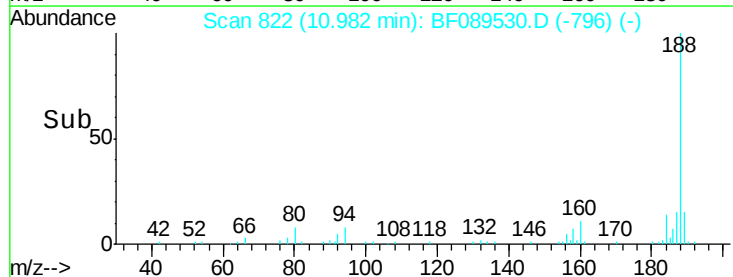
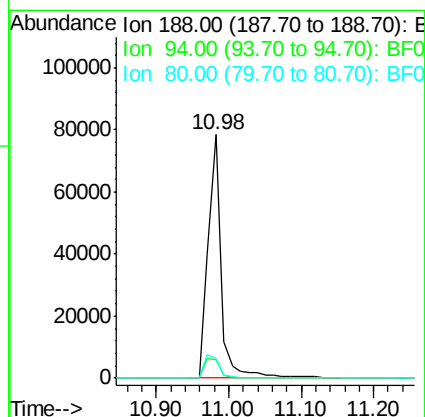
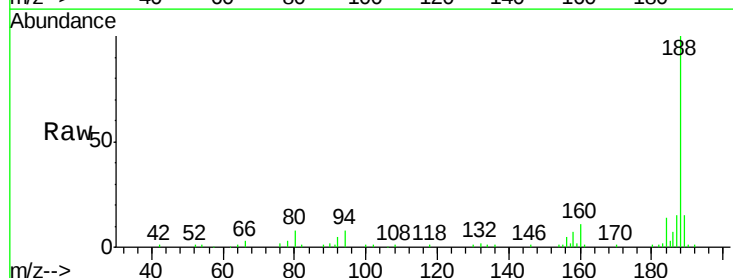
Manual Integrations  
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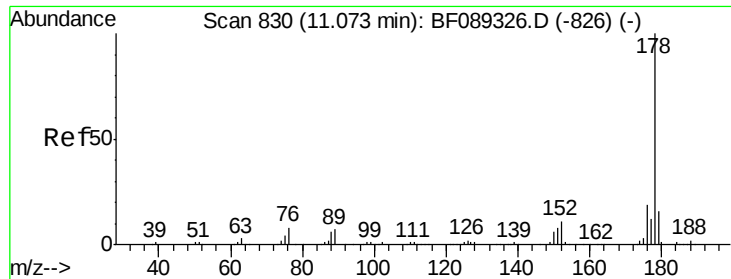
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.98 min Scan# 822  
Delta R.T. -0.00 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 188     | 100   | 98615 |       |       |
| 94      | 7.8   |       | 6.5   | 9.7   |
| 80      | 8.1   |       | 7.2   | 10.8  |





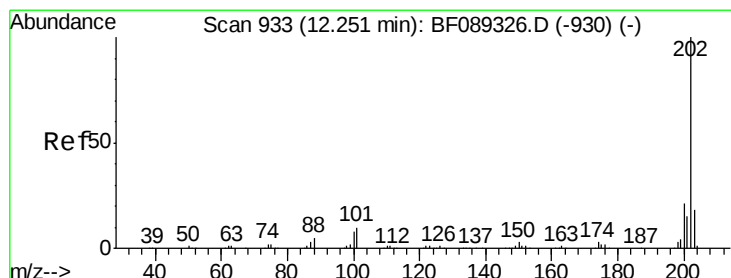
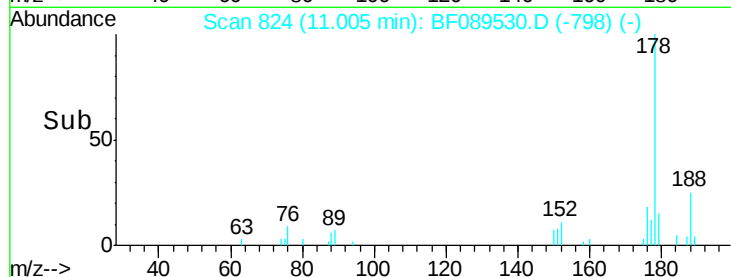
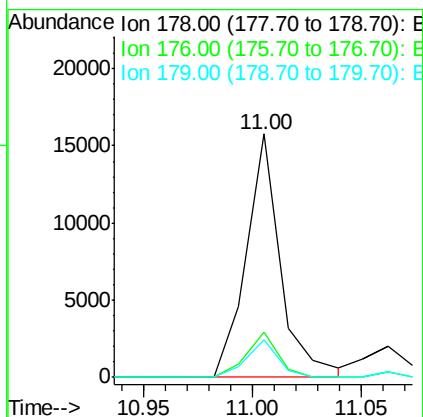
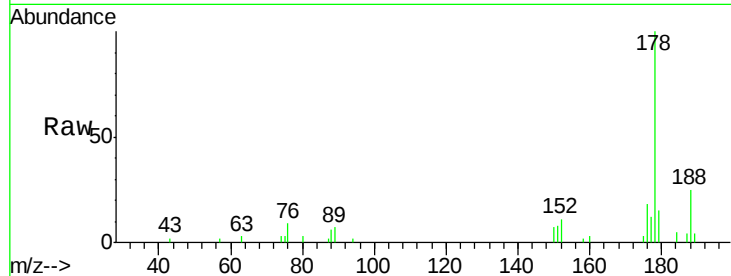
#70  
Phenanthrene  
Concen: 3.41 ng  
RT: 11.00 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.5  | 23.3  |
| 179     | 15.3  | 12.3  | 18.5  |

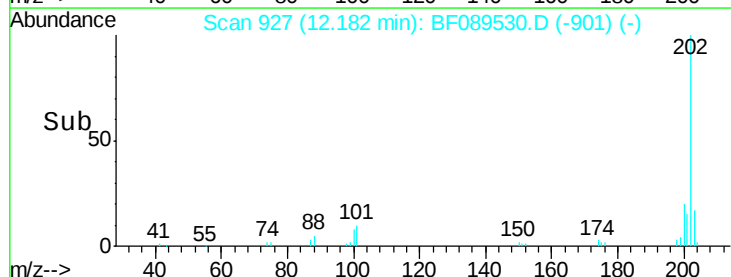
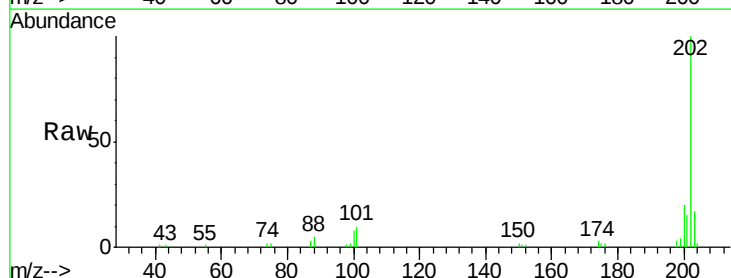
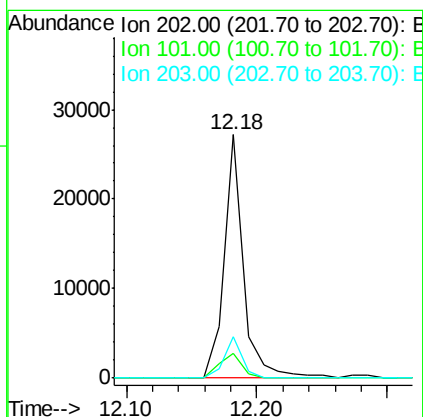
Manual Integrations  
APPROVED

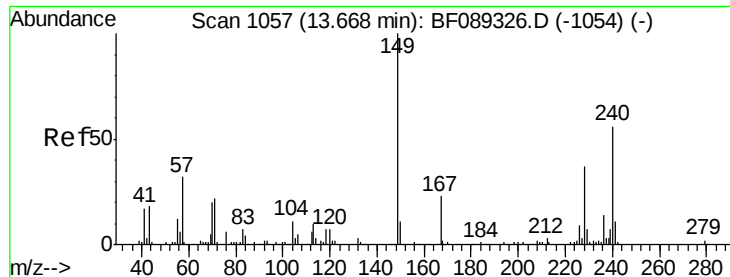
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#74  
Fluoranthene  
Concen: 5.23 ng  
RT: 12.18 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.0  | 0.0   | 29.9  |
| 203     | 17.1  | 0.0   | 37.3  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.01 min

Lab File: BF089530.D

Acq: 2 Aug 2016 00:56

Instrument :

BNA\_F

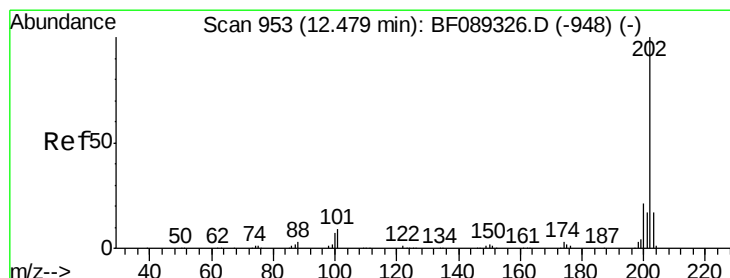
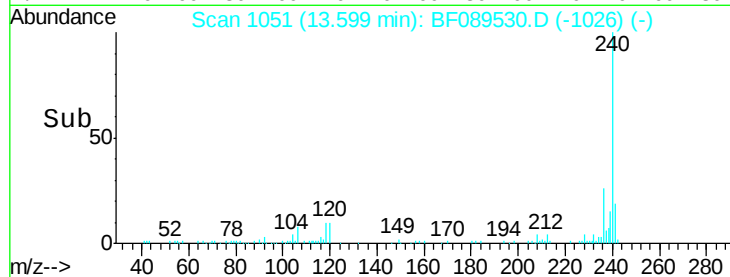
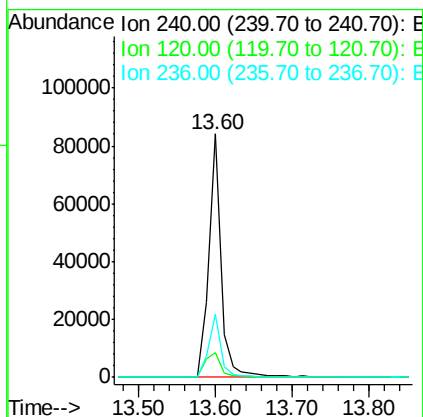
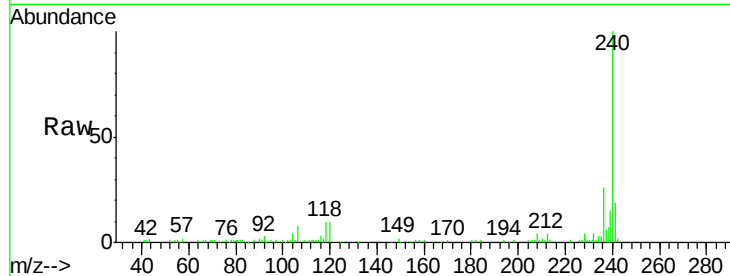
ClientSampleId :

SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.3  | 9.1   | 13.7  |
| 236     | 25.9  | 20.6  | 30.8  |

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#77

Pyrene

Concen: 3.29 ng

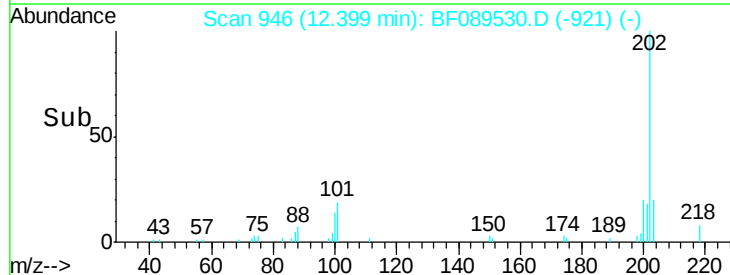
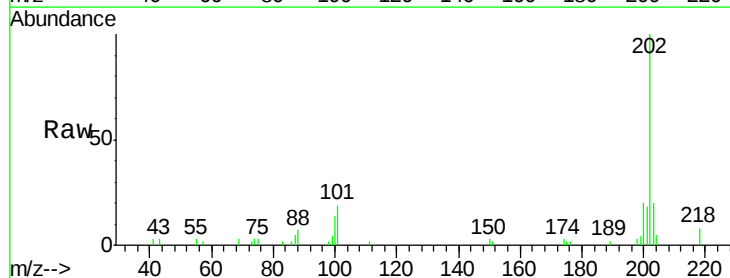
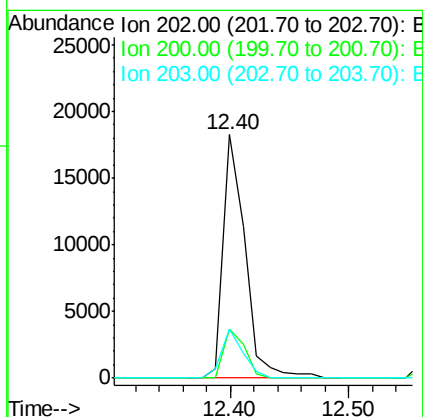
RT: 12.40 min Scan# 946

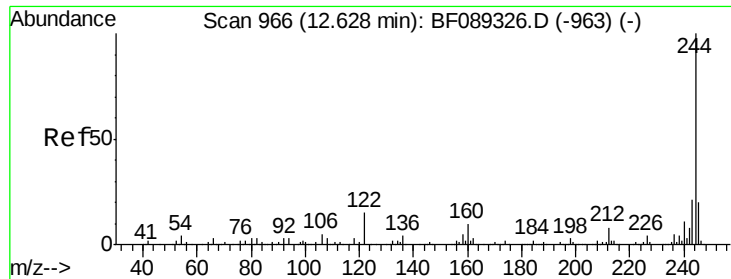
Delta R.T. -0.01 min

Lab File: BF089530.D

Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.0  | 16.9  | 25.3  |
| 203     | 20.0  | 14.0  | 21.0  |





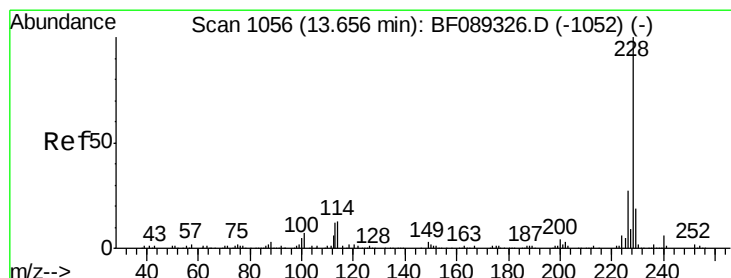
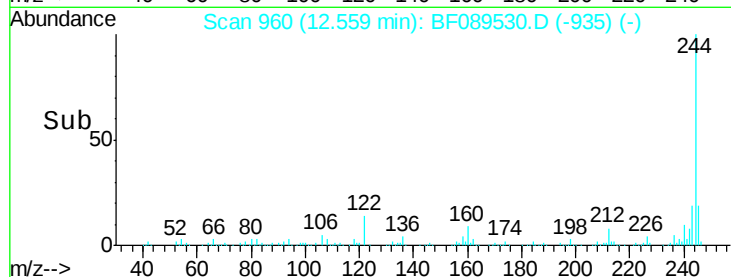
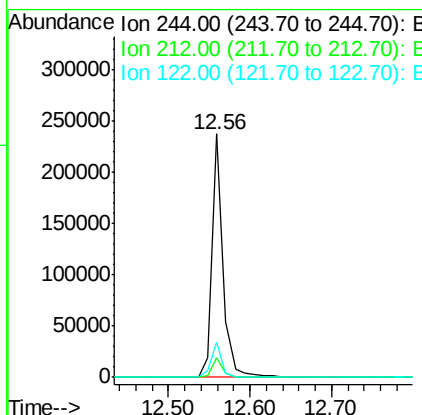
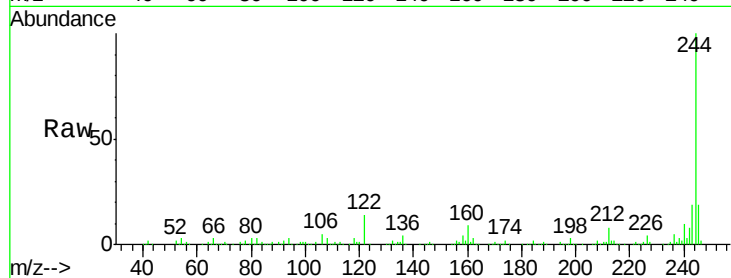
#78  
 Terphenyl-d14  
 Concen: 57.17 ng  
 RT: 12.56 min Scan# 960  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.8   | 6.5   | 9.7   |
| 122     | 14.1  | 11.4  | 17.0  |

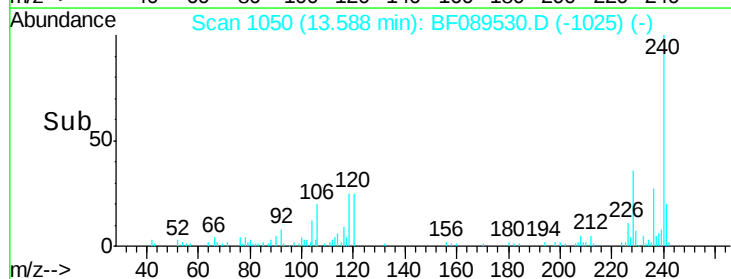
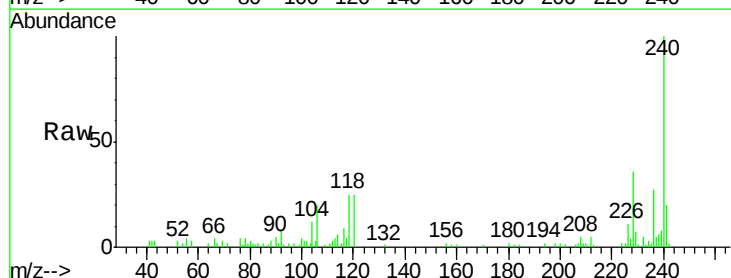
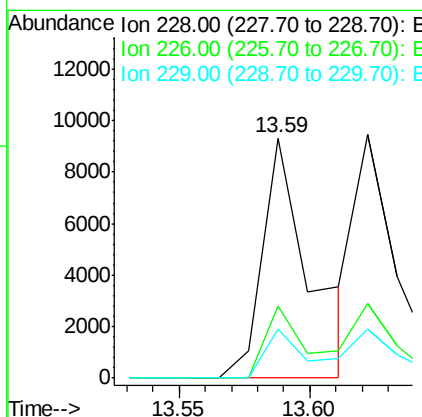
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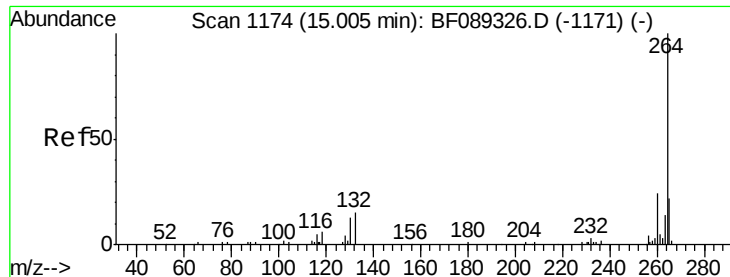
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#80  
 Benzo(a)anthracene  
 Concen: 2.25 ng  
 RT: 13.59 min Scan# 1050  
 Delta R.T. -0.01 min  
 Lab File: BF089530.D  
 Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 21.4  | 32.2  |
| 229     | 20.6  | 15.9  | 23.9  |





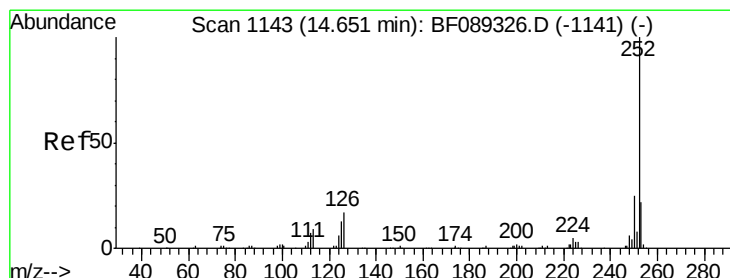
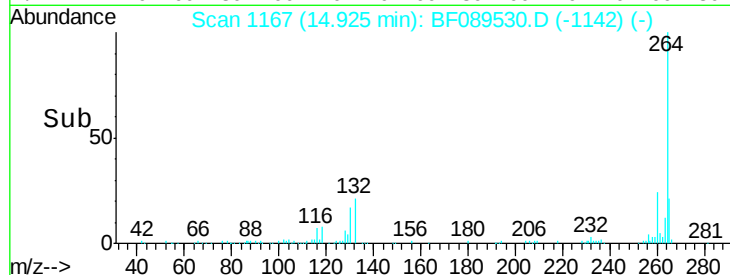
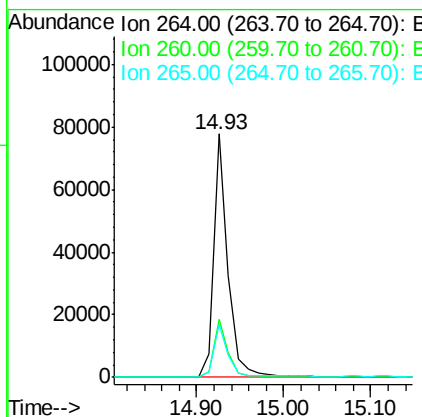
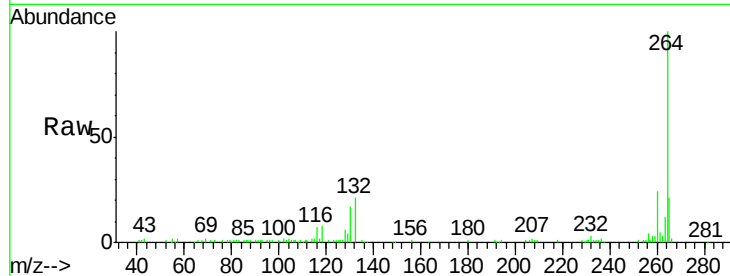
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.93 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.0  | 28.4  |
| 265     | 21.5  | 17.5  | 26.3  |

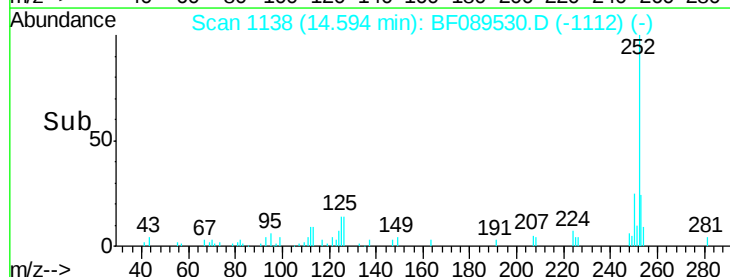
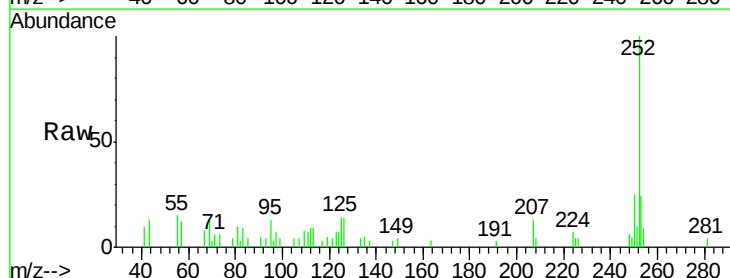
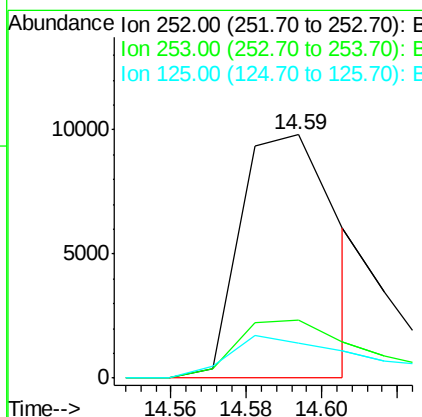
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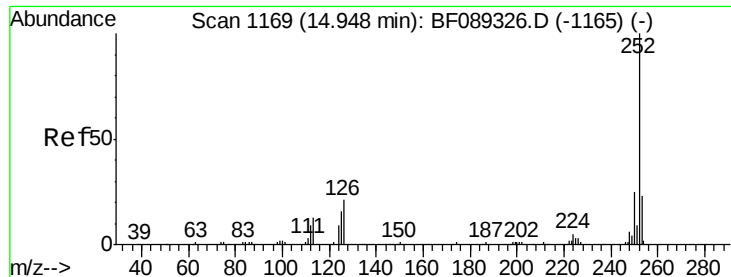
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#87  
Benzo(b)fluoranthene  
Concen: 3.13 ng m  
RT: 14.59 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.2  | 25.8  |
| 125     | 14.2  | 9.7   | 14.5  |





#89  
Benzo(a)pyrene  
Concen: 2.05 ng  
RT: 14.88 min Scan# 1163  
Delta R.T. -0.01 min  
Lab File: BF089530.D  
Acq: 2 Aug 2016 00:56

Instrument :  
BNA\_F  
ClientSampleId :  
SB-63-0.5-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.4  | 26.2  |
| 125     | 16.2  | 12.4  | 18.6  |

Manual Integrations  
APPROVED

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