

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\  
 Data File : BF090202.D  
 Acq On : 23 Sep 2016 17:22  
 Operator : UM/SJ  
 Sample : H4867-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-WSG-16121-05

Manual Integrations  
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Quant Time: Sep 23 19:36:24 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 23 18:09:48 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 133589   | 20.00  | ng    | -0.03       |
| 21) Naphthalene-d8          | 7.78  | 136  | 476351   | 20.00  | ng    | -0.03       |
| 38) Acenaphthene-d10        | 9.52  | 164  | 269181   | 20.00  | ng    | -0.03       |
| 63) Phenanthrene-d10        | 10.98 | 188  | 349225   | 20.00  | ng    | -0.05       |
| 75) Chrysene-d12            | 13.60 | 240  | 228736   | 20.00  | ng    | -0.03       |
| 86) Perylene-d12            | 14.91 | 264  | 249509   | 20.00  | ng    | -0.05       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.06  | 112  | 1004543  | 122.57 | ng    | -0.01       |
| 7) Phenol-d6                | 6.16  | 99   | 1407109  | 139.02 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 691367   | 84.13  | ng    | -0.03       |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 266576   | 115.43 | ng    | -0.03       |
| 44) 2-Fluorobiphenyl        | 8.86  | 172  | 996948   | 72.71  | ng    | -0.03       |
| 78) Terphenyl-d14           | 12.57 | 244  | 638941   | 70.92  | ng    | -0.03       |
| Target Compounds            |       |      |          |        |       |             |
| 22) Acetophenone            | 6.91  | 105  | 56554    | 4.92   | ng    | Qvalue # 96 |
| 49) Dimethylphthalate       | 9.26  | 163  | 435234   | 25.39  | ng    | 99          |
| 70) Phenanthrene            | 11.00 | 178  | 47142    | 2.89   | ng    | 100         |
| 74) Fluoranthene            | 12.18 | 202  | 71957    | 4.10   | ng    | 93          |
| 77) Pyrene                  | 12.40 | 202  | 58527m   | 3.74   | ng    |             |
| 82) Chrysene                | 13.62 | 228  | 25705m   | 2.14   | ng    |             |
| 85) Indeno(1,2,3-cd)pyrene  | 16.07 | 276  | 20835    | 2.15   | ng    | # 82        |
| 87) Benzo(b)fluoranthene    | 14.58 | 252  | 39458m   | 2.86   | ng    |             |

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

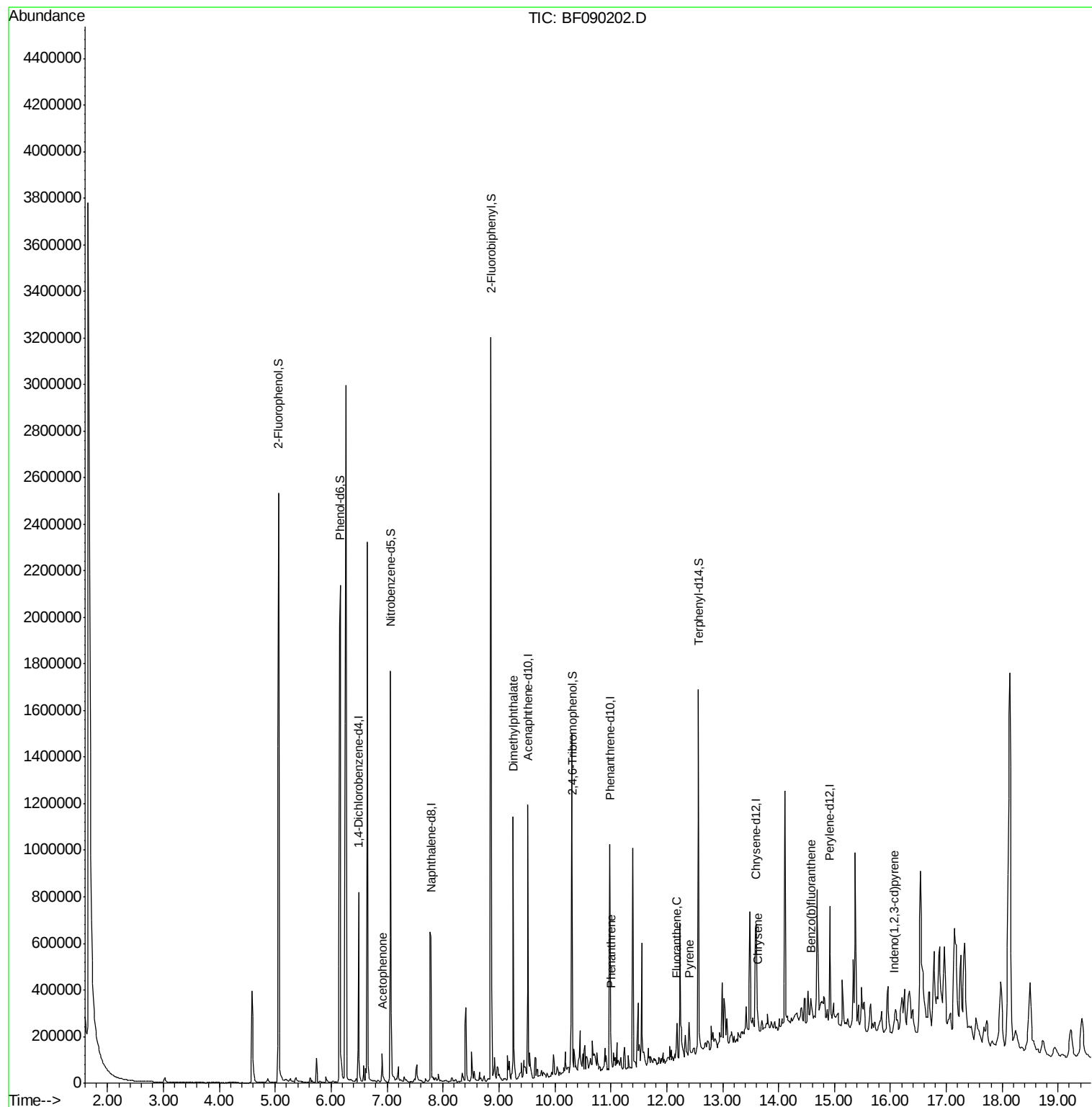
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\  
Data File : BF090202.D  
Acq On : 23 Sep 2016 17:22  
Operator : UM/SJ  
Sample : H4867-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
TS-WSG-16121-05

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Quant Time: Sep 23 19:36:24 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 23 18:09:48 2016  
Response via : Initial Calibration





#1

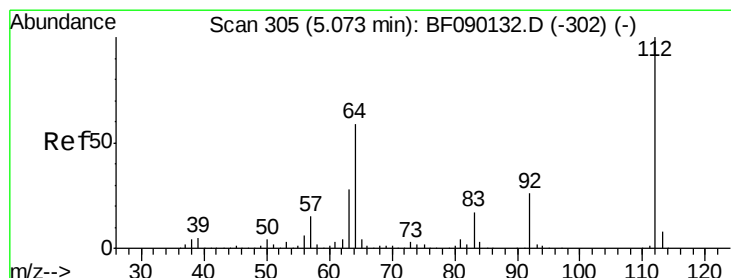
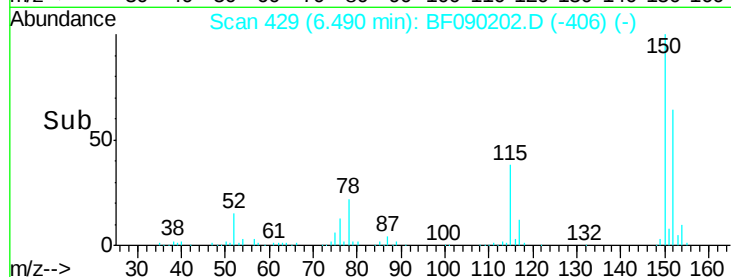
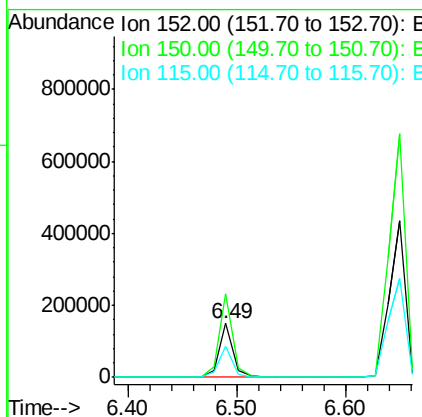
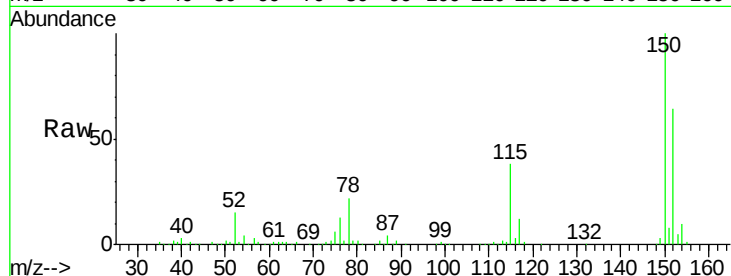
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.49 min Scan# 429  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 128.9 | 193.3 |
| 115     | 59.0  | 55.5  | 83.3  |

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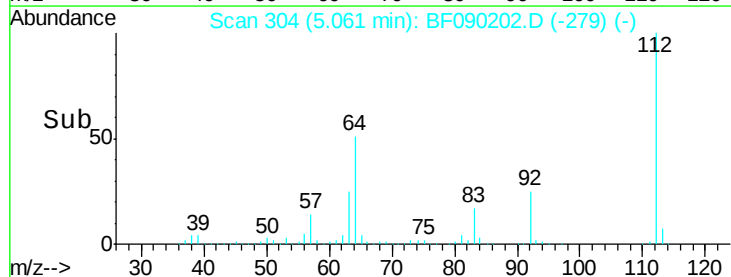
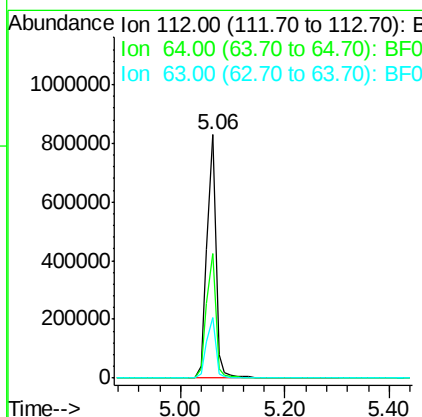
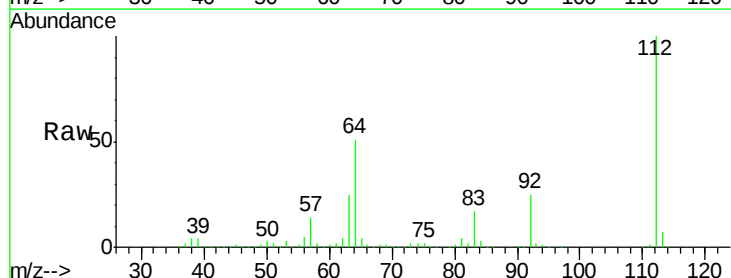
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#5

2-Fluorophenol  
Concen: 122.57 ng  
RT: 5.06 min Scan# 304  
Delta R.T. -0.01 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.3  | 39.8  | 59.6  |
| 63      | 25.1  | 18.9  | 28.3  |





#7

Phenol-d6

Concen: 139.02 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

Instrument :

BNA\_F

ClientSampleId :

TS-WSG-16121-05

Tot Ion: 99 Resp: 1407109

Ion Ratio Lower Upper

99 100

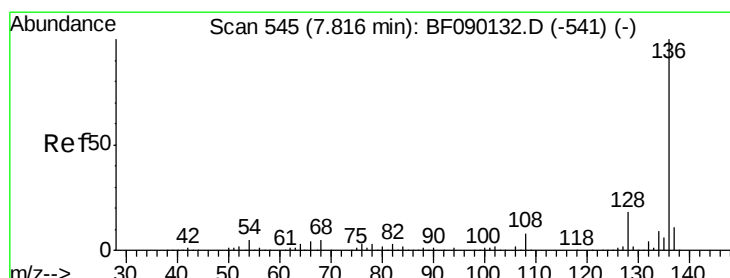
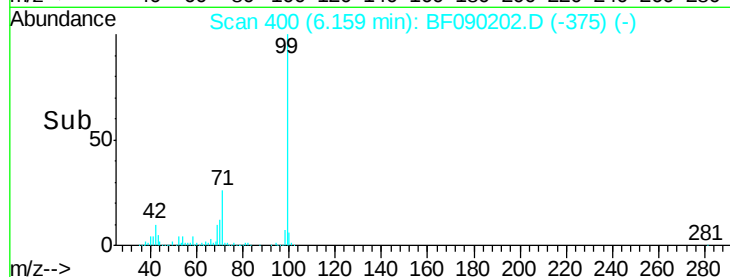
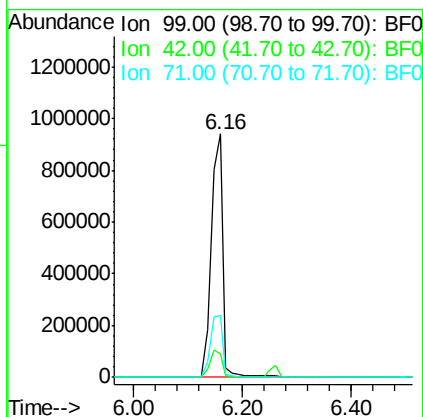
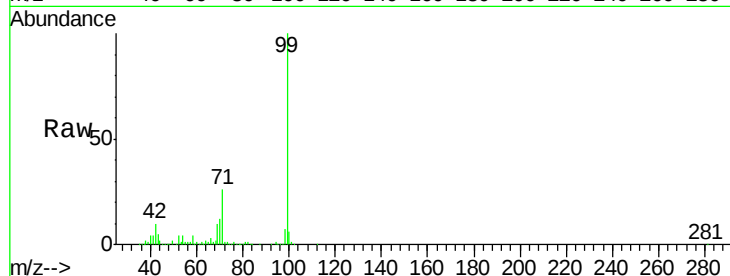
42 9.7 10.6 15.8#

71 25.7 23.0 34.6

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.03 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

Tgt Ion: 136 Resp: 476351

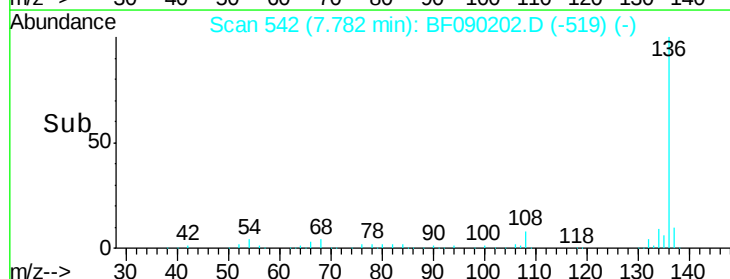
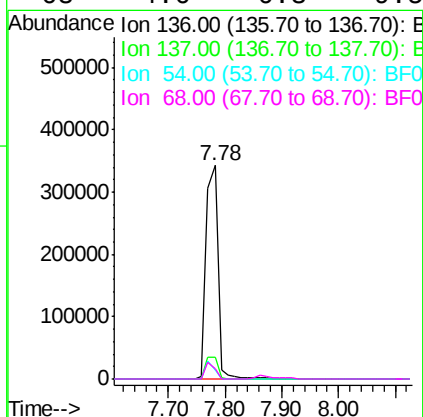
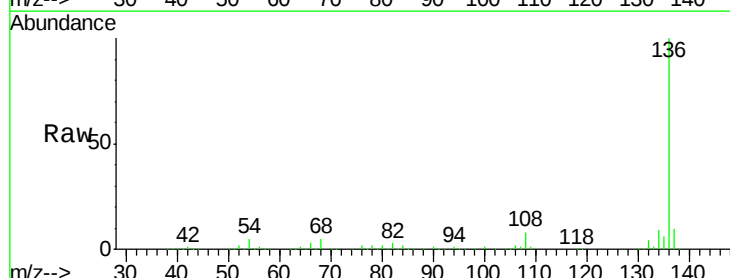
Ion Ratio Lower Upper

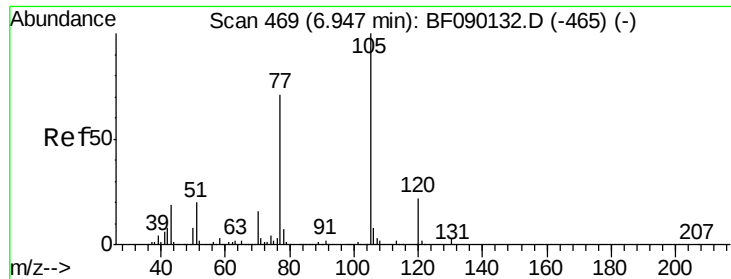
136 100

137 10.4 9.0 13.4

54 4.5 6.4 9.6#

68 4.6 6.3 9.5#





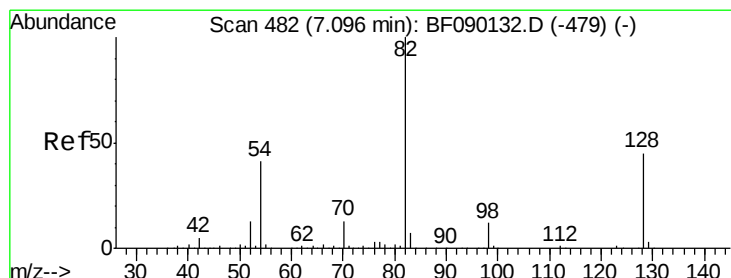
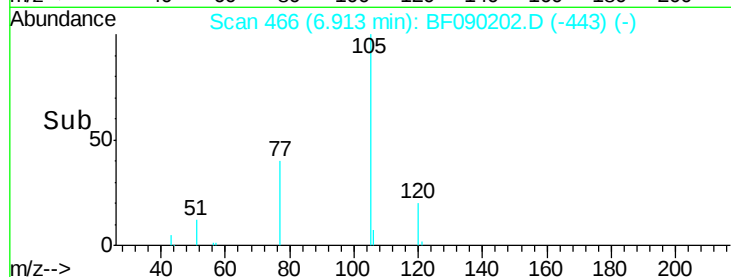
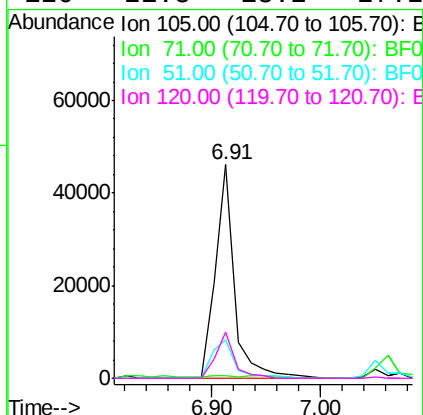
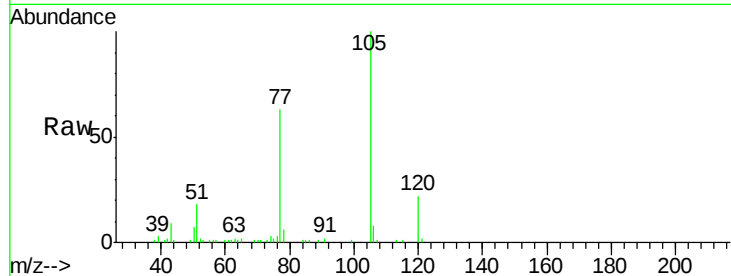
#22  
Acetophenone  
Concen: 4.92 ng  
RT: 6.91 min Scan# 466  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ion | Ratio | Resp  | Lower | Upper |
|---------|-----|-------|-------|-------|-------|
| 105     | 105 | 100   | 56554 |       |       |
| 71      | 71  | 1.0   | 4.1   | 6.1   | #     |
| 51      | 51  | 17.8  | 16.2  | 24.2  |       |
| 120     | 120 | 21.8  | 18.2  | 27.2  |       |

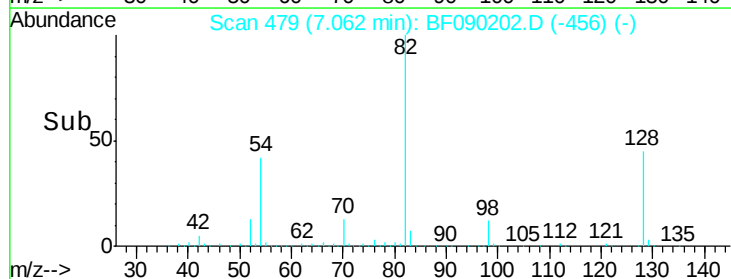
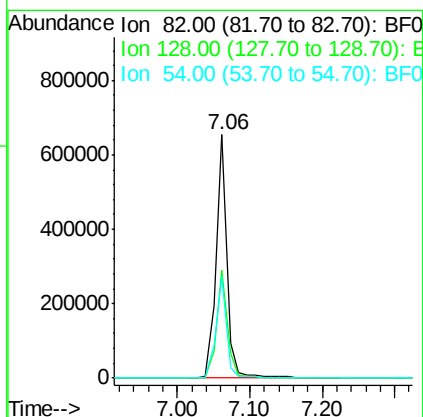
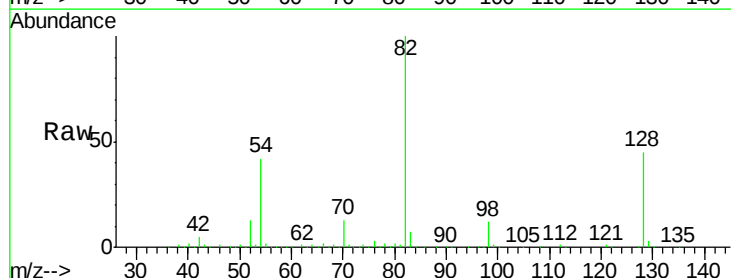
Manual Integrations  
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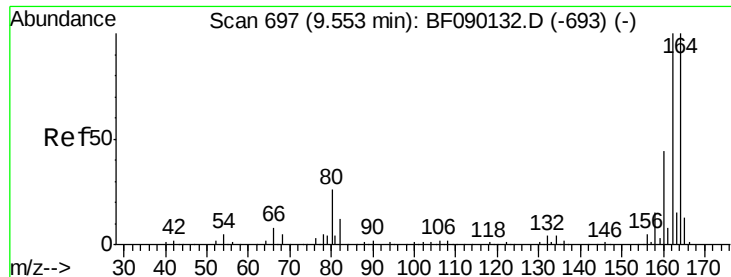
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#23  
Nitrobenzene-d5  
Concen: 84.13 ng  
RT: 7.06 min Scan# 479  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 82      | 82  | 100   | 691367 |       |       |
| 128     | 128 | 44.6  | 37.5   | 56.3  |       |
| 54      | 54  | 41.9  | 31.9   | 47.9  |       |





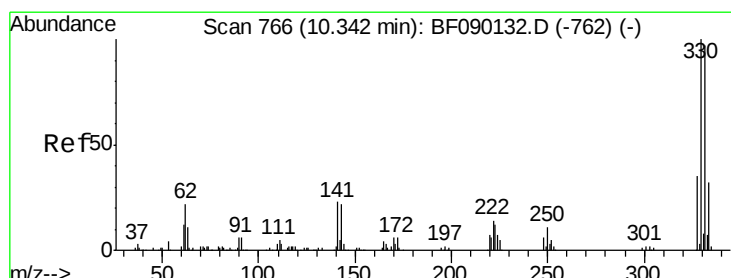
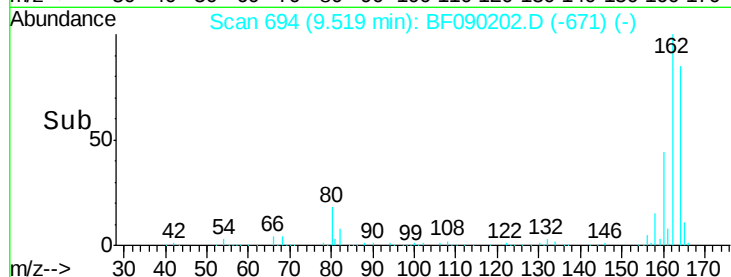
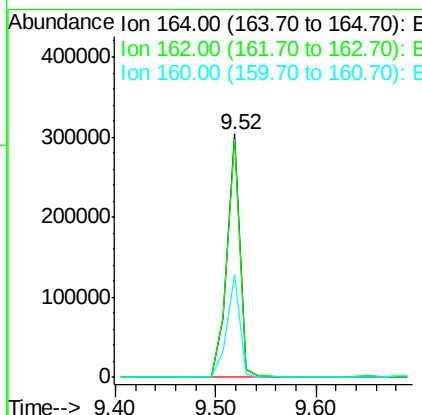
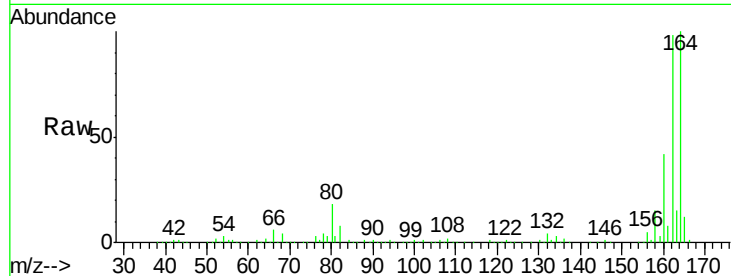
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.52 min Scan# 694  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 97.9  | 81.4  | 122.2 |
| 160     | 42.4  | 36.6  | 54.8  |

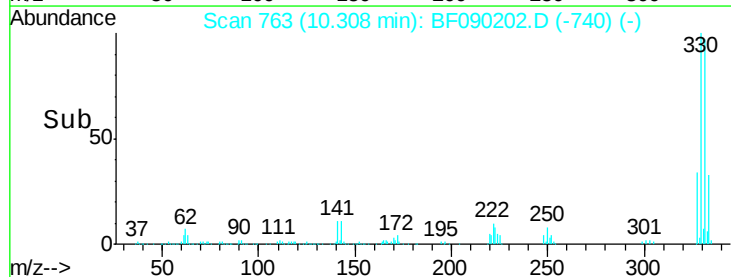
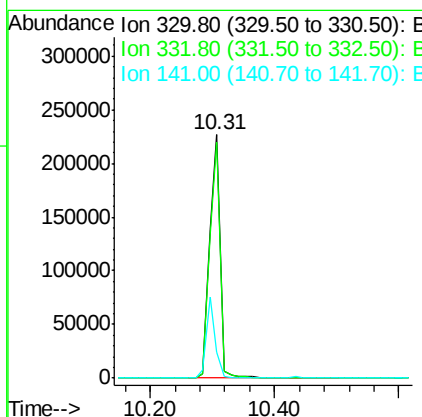
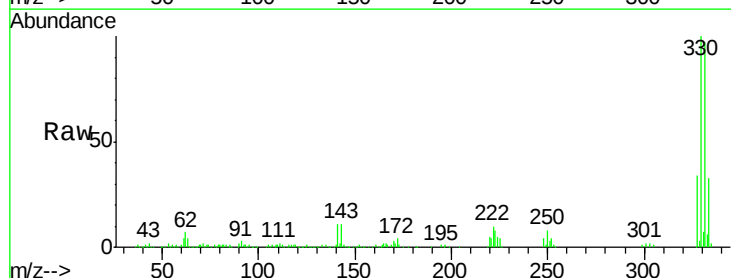
Manual Integrations  
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#41  
2,4,6-Tribromophenol  
Concen: 115.43 ng  
RT: 10.31 min Scan# 763  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 78.1  | 117.1 |
| 141     | 29.0  | 23.9  | 35.9  |





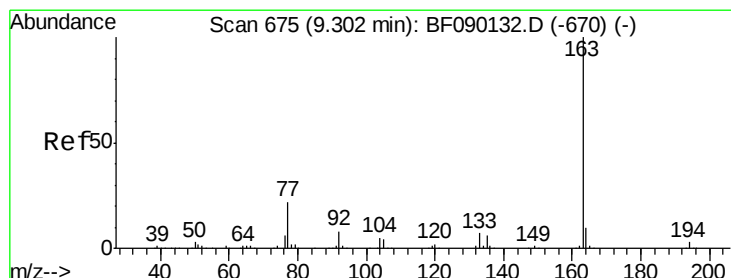
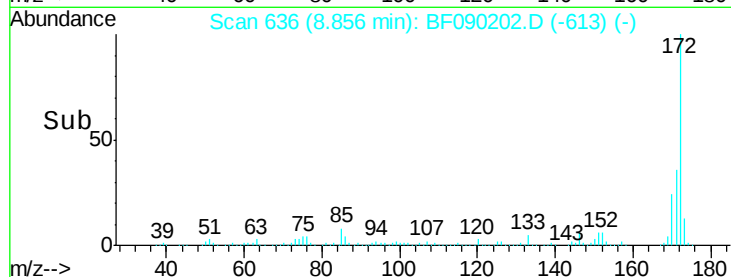
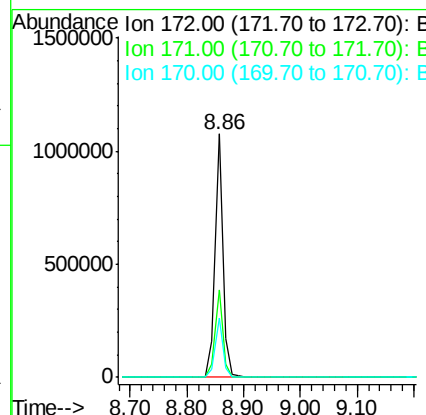
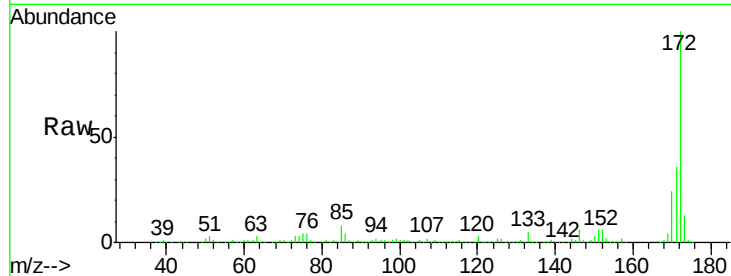
#44  
2-Fluorobiphenyl  
Concen: 72.71 ng  
RT: 8.86 min Scan# 636  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 996948 |       |       |
| 171     | 35.9  |        | 29.2  | 43.8  |
| 170     | 24.4  |        | 19.8  | 29.8  |

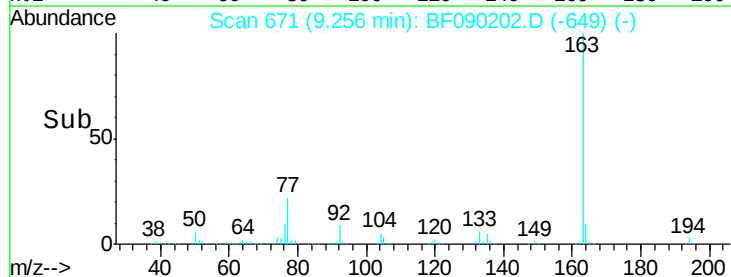
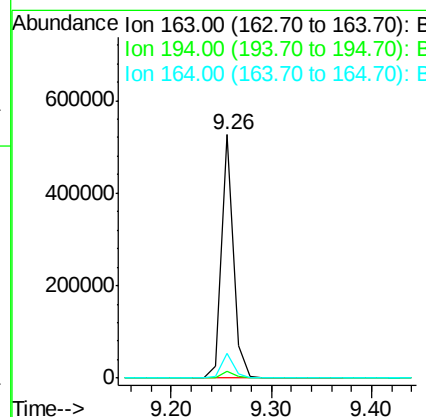
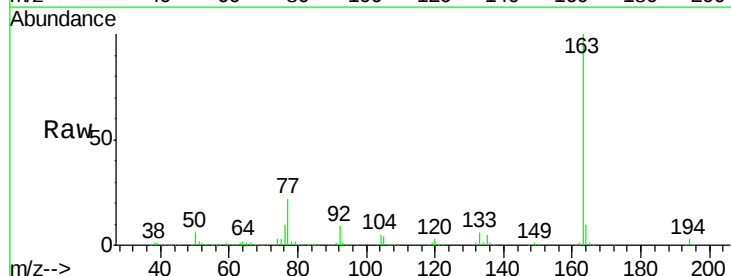
Manual Integrations  
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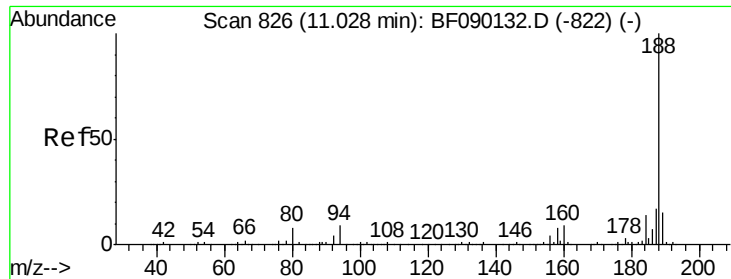
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#49  
Dimethylphthalate  
Concen: 25.39 ng  
RT: 9.26 min Scan# 671  
Delta R.T. -0.05 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 435234 |       |       |
| 194     | 3.1   |        | 2.8   | 4.2   |
| 164     | 10.3  |        | 8.1   | 12.1  |





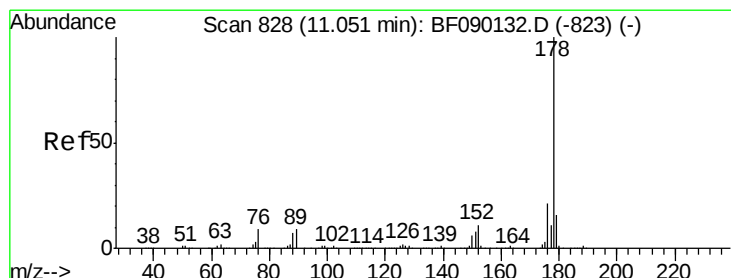
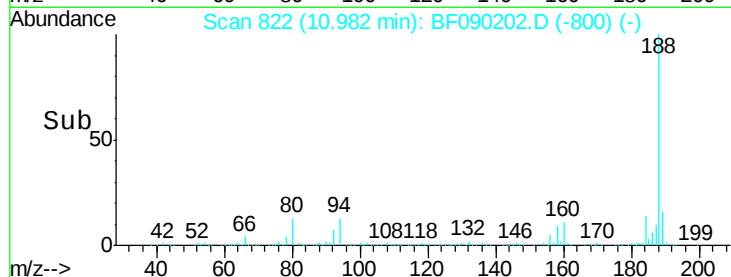
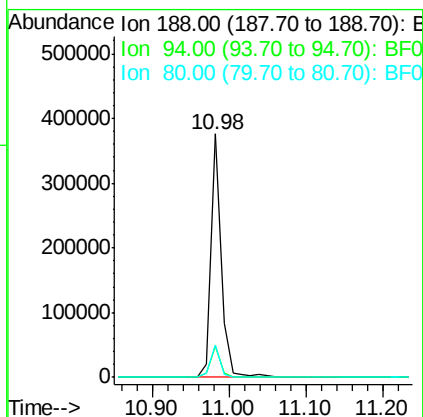
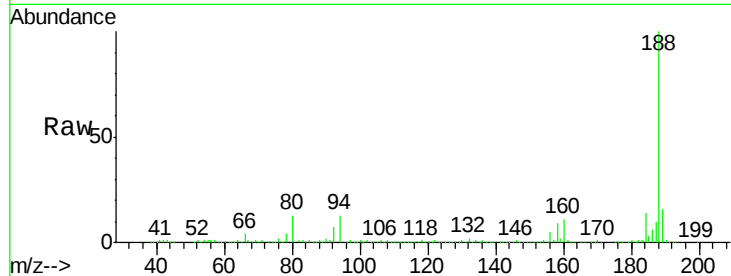
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.98 min Scan# 822  
Delta R.T. -0.05 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 349225 |       |       |
| 94      | 12.8  |        | 10.5  | 15.7  |
| 80      | 13.5  |        | 11.2  | 16.8  |

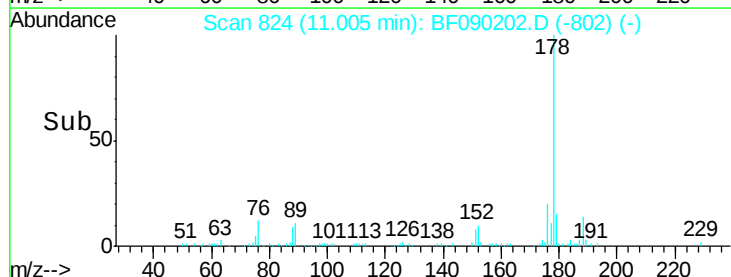
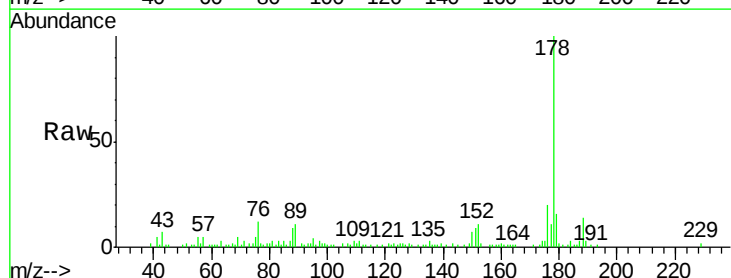
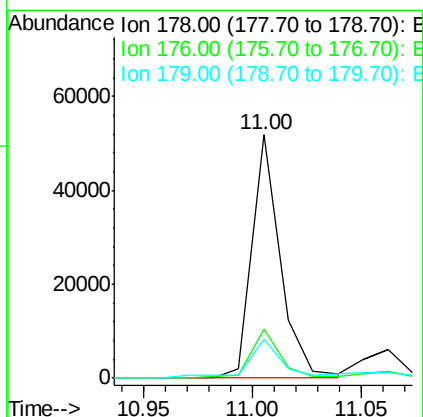
Manual Integrations  
APPROVED

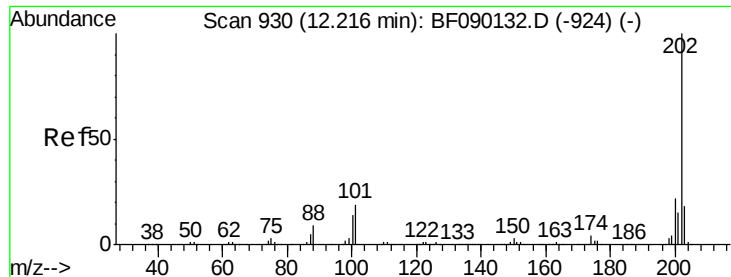
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#70  
Phenanthrene  
Concen: 2.89 ng  
RT: 11.00 min Scan# 824  
Delta R.T. -0.05 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 47142 |       |       |
| 176     | 19.9  |       | 15.9  | 23.9  |
| 179     | 15.7  |       | 12.9  | 19.3  |





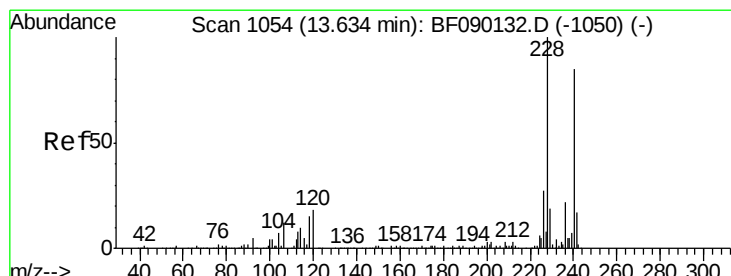
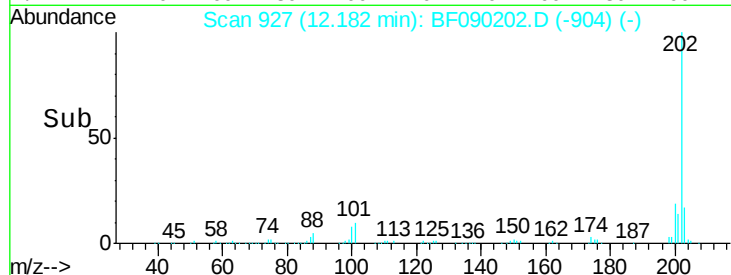
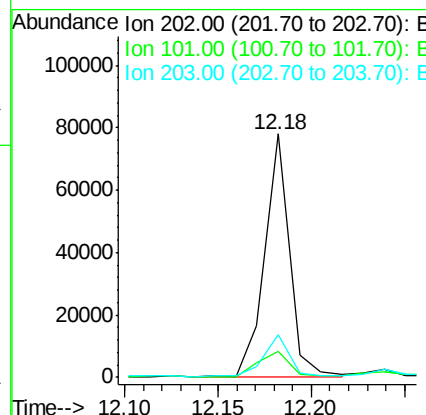
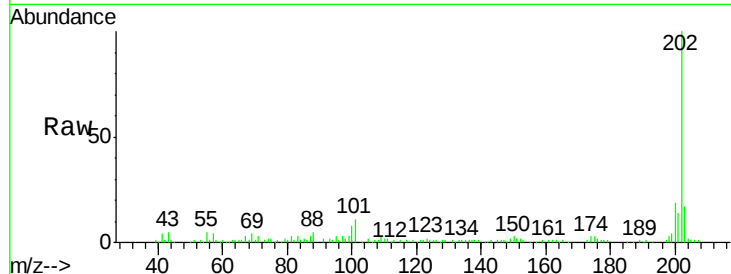
#74  
 Fluoranthene  
 Concen: 4.10 ng  
 RT: 12.18 min Scan# 927  
 Delta R.T. -0.03 min  
 Lab File: BF090202.D  
 Acq: 23 Sep 2016 17:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TS-WSG-16121-05

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 202     | 100  |       | 71957 |       |       |
| 101     | 10.7 | 0.0   | 36.1  |       |       |
| 203     | 17.4 | 0.0   | 38.2  |       |       |

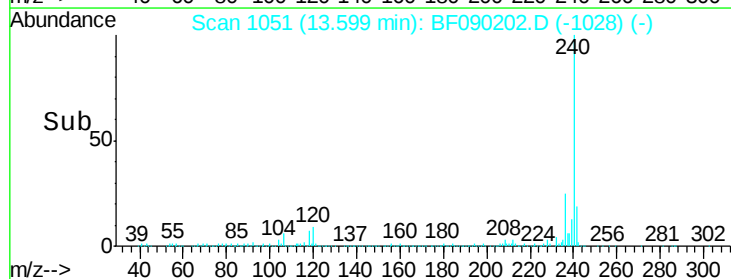
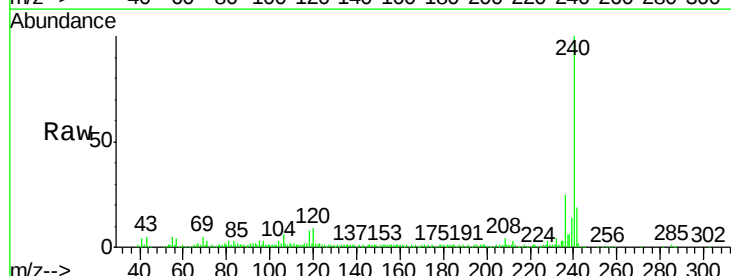
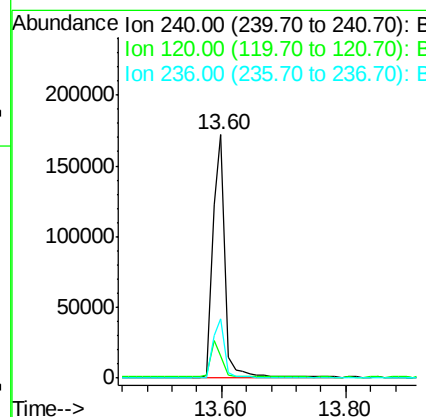
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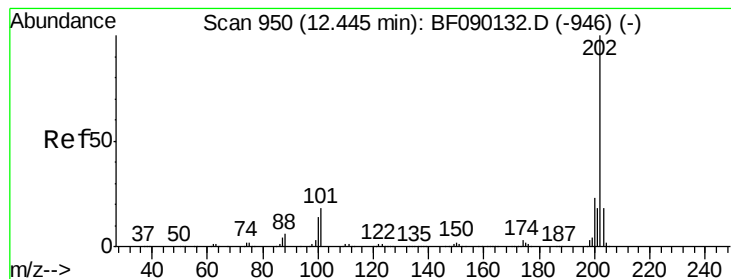
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#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.60 min Scan# 1051  
 Delta R.T. -0.03 min  
 Lab File: BF090202.D  
 Acq: 23 Sep 2016 17:22

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 228736 |       |       |
| 120     | 9.3  | 10.6  | 16.0#  |       |       |
| 236     | 24.6 | 21.6  | 32.4   |       |       |





#77

Pvrene

Concen: 3.74 ng/mL

RT: 12.40 min Scan# 946

Delta R.T. -0.05 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

Instrument :

BNA\_F

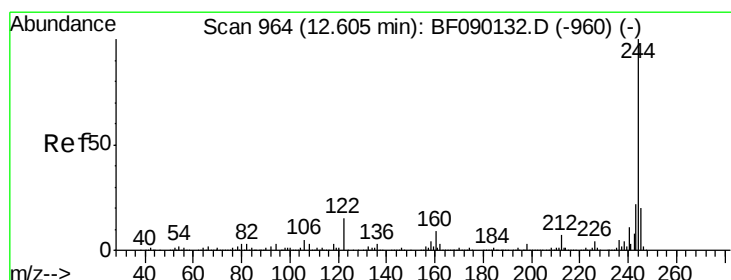
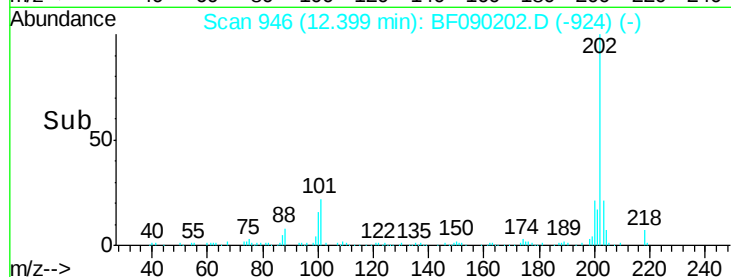
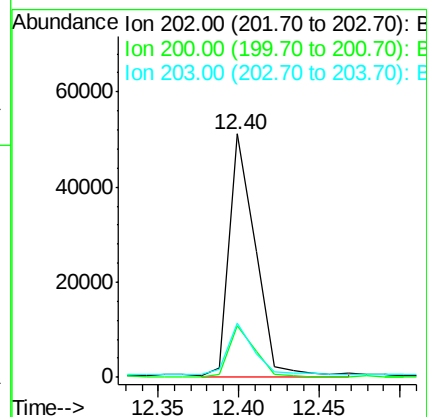
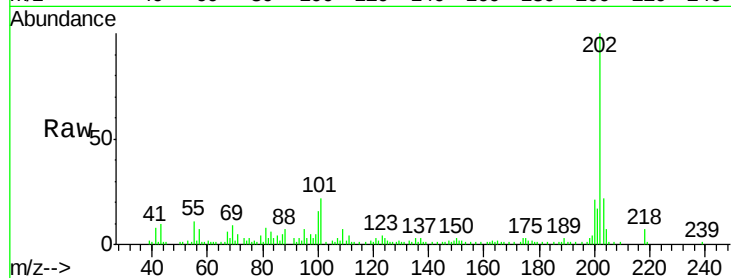
ClientSampleId :

TS-WSG-16121-05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 58527 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.0  | 17.9  | 26.9  |
| 203       | 22.1  | 14.2  | 21.4  |

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#78

Terphenyl-d14

Concen: 70.92 ng/mL

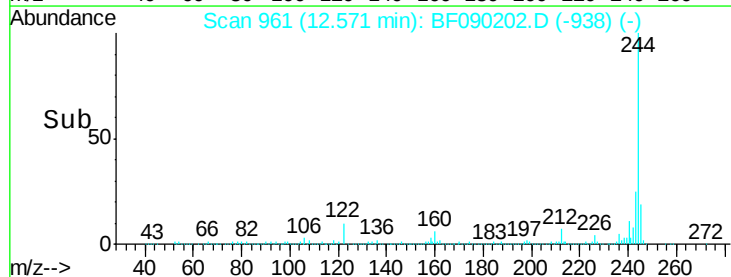
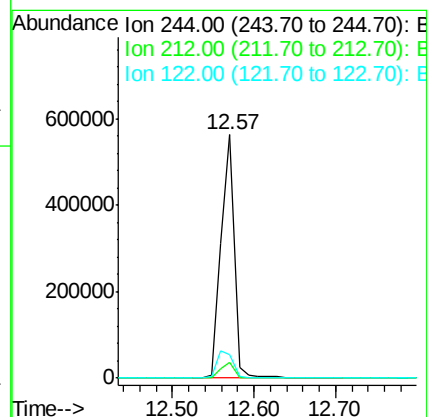
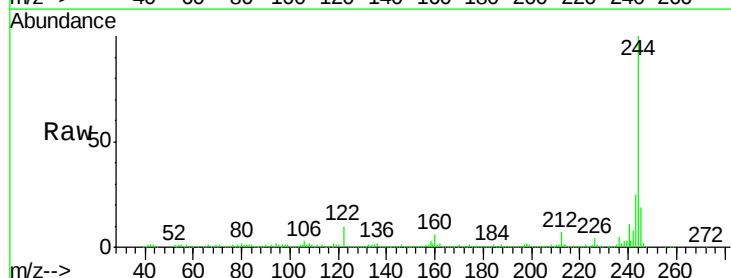
RT: 12.57 min Scan# 961

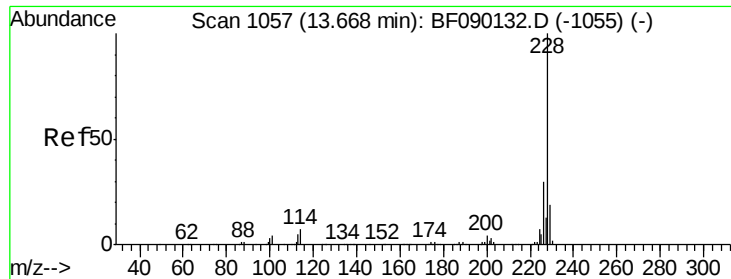
Delta R.T. -0.03 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 638941 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.5   | 5.8   | 8.8    |
| 122       | 9.8   | 9.4   | 14.0   |





#82

Chrysene

Concen: 2.14 ng/mL

RT: 13.62 min Scan# 1053

Delta R.T. -0.05 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

Instrument :

BNA\_F

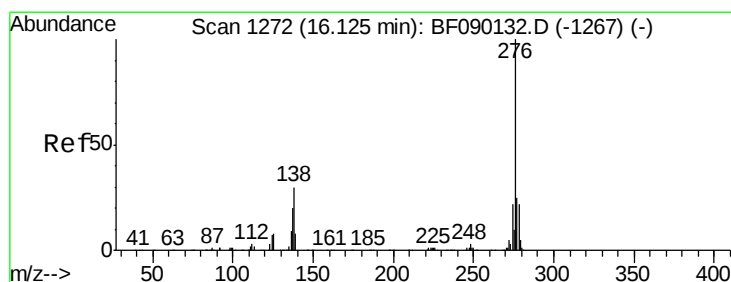
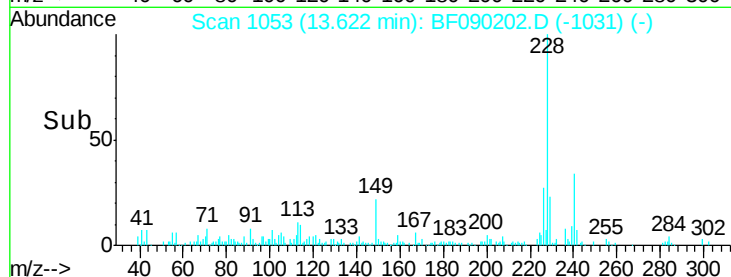
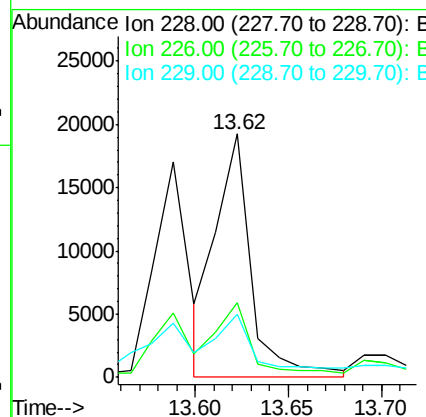
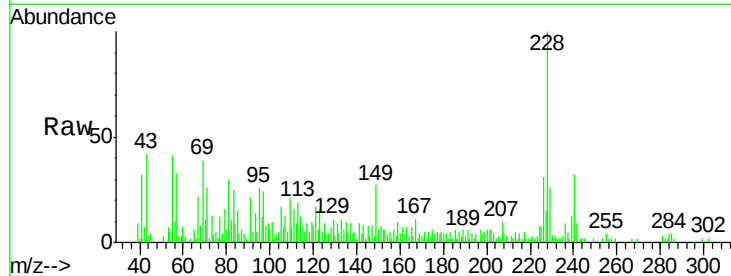
ClientSampleID :

TS-WSG-16121-05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 25705 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.8  | 24.6  | 37.0  |
| 229       | 25.9  | 16.2  | 24.4  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.15 ng/mL

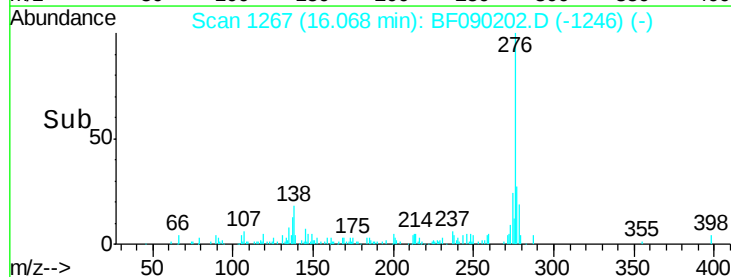
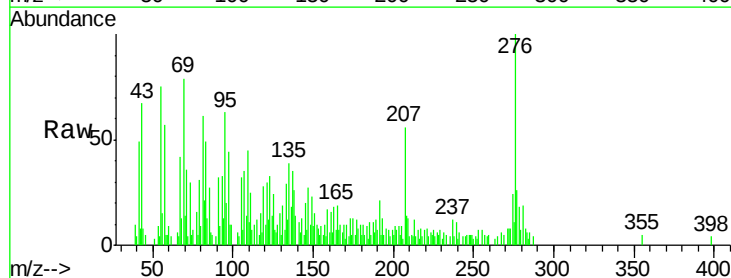
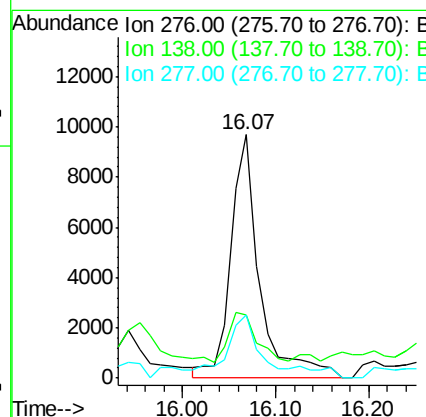
RT: 16.07 min Scan# 1267

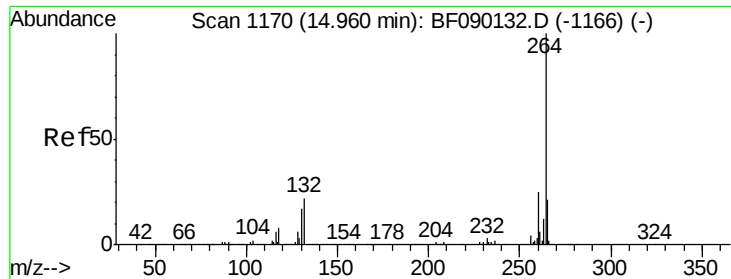
Delta R.T. -0.06 min

Lab File: BF090202.D

Acq: 23 Sep 2016 17:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 20835 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.5  | 25.9  | 38.9  |
| 277       | 20.8  | 19.9  | 29.9  |





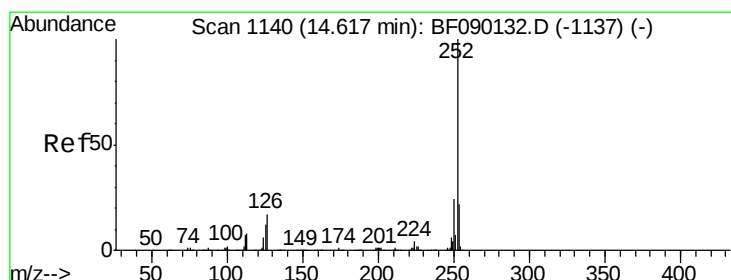
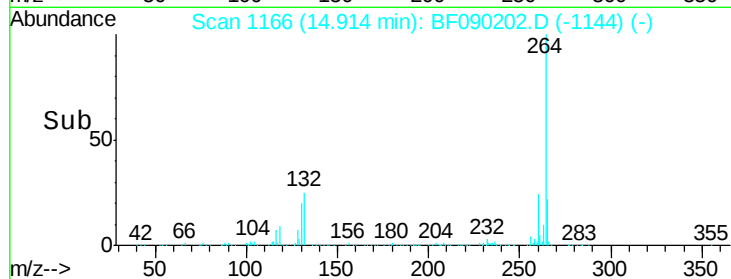
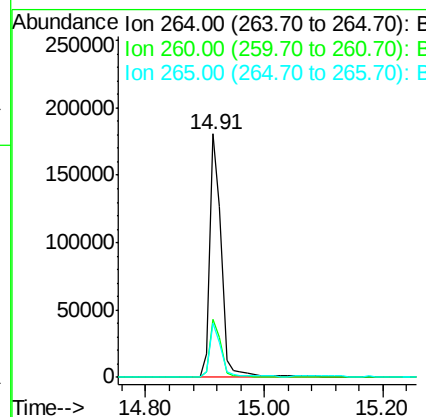
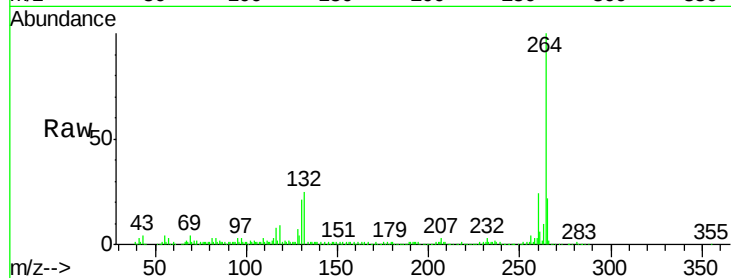
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.91 min Scan# 1166  
Delta R.T. -0.05 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
TS-WSG-16121-05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.5  | 29.3  |
| 265     | 22.1  | 17.0  | 25.4  |

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#87  
Benzo(b)fluoranthene  
Concen: 2.86 ng m  
RT: 14.58 min Scan# 1137  
Delta R.T. -0.03 min  
Lab File: BF090202.D  
Acq: 23 Sep 2016 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.9  | 26.9  |
| 125     | 21.3  | 12.7  | 19.1  |

