

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070217\  
 Data File : BF096425.D  
 Acq On : 2 Jul 2017 19:27  
 Operator : SJ/MA  
 Sample : I3950-07 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B5-0-2

Manual Integrations  
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mohammad  
 7/3/2017 4:07:45 PM

Quant Time: Jul 03 06:28:21 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 03 01:43:12 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 124887   | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.02  | 136  | 472278   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10        | 9.77  | 164  | 173992   | 20.00 | ng    | 0.00      |
| 63) Phenanthrene-d10        | 11.25 | 188  | 276873   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12            | 13.87 | 240  | 205869   | 20.00 | ng    | 0.00      |
| 86) Perylene-d12            | 15.29 | 264  | 144495   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 5.34  | 112  | 91738    | 10.84 | ng    | 0.00      |
| 7) Phenol-d6                | 6.36  | 99   | 109412   | 10.52 | ng    | -0.01     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 62679    | 7.98  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 14267    | 10.50 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 118759   | 11.67 | ng    | 0.00      |
| 78) Terphenyl-d14           | 12.83 | 244  | 70652    | 7.33  | ng    | 0.00      |
| Target Compounds            |       |      |          |       |       |           |
| 70) Phenanthrene            | 11.27 | 178  | 34553    | 2.309 | ng    | Qvalue 98 |
| 74) Fluoranthene            | 12.45 | 202  | 54061    | 3.684 | ng    | 96        |
| 77) Pyrene                  | 12.68 | 202  | 53232    | 3.221 | ng    | 96        |
| 80) Benzo(a)anthracene      | 13.86 | 228  | 27587    | 2.314 | ng    | 93        |
| 82) Chrysene                | 13.90 | 228  | 25785m   | 2.065 | ng    |           |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 32488m   | 3.588 | ng    |           |
| 89) Benzo(a)pyrene          | 15.23 | 252  | 17514    | 2.167 | ng    | # 69      |
| 91) Benzo(g,h,i)perylene    | 17.06 | 276  | 13959    | 2.118 | ng    | # 82      |

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

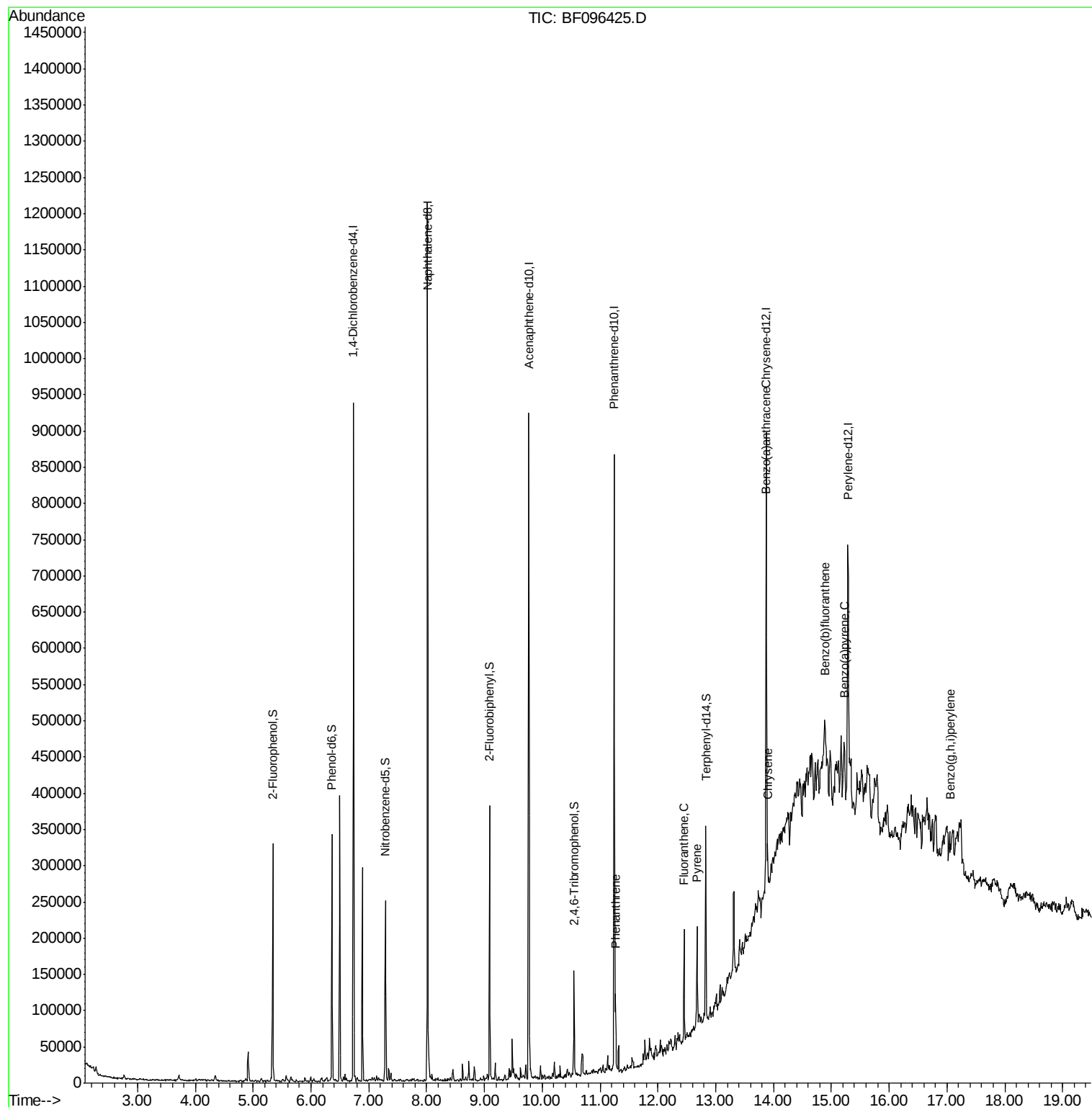
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070217\  
Data File : BF096425.D  
Acq On : 2 Jul 2017 19:27  
Operator : SJ/MA  
Sample : I3950-07 2X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

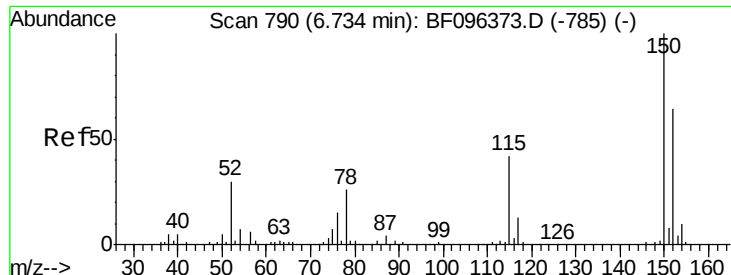
Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

Manual Integrations  
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Quant Time: Jul 03 06:28:21 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1

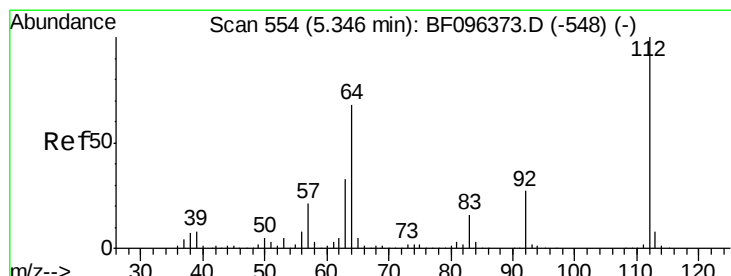
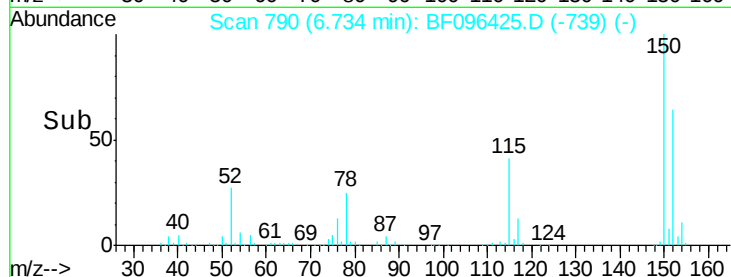
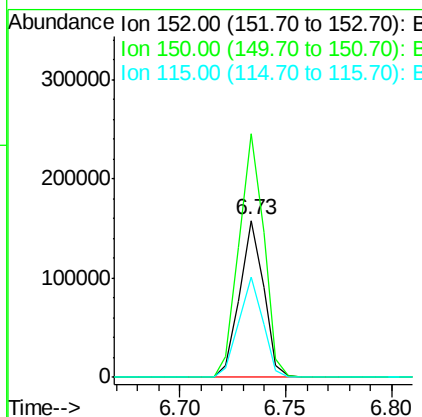
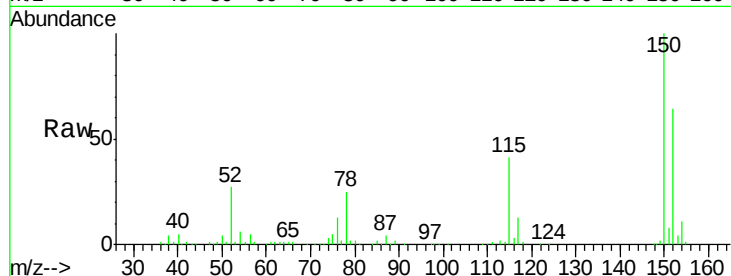
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 126.2 | 189.2 |
| 115     | 64.3  | 52.2  | 78.2  |

Manual Integrations  
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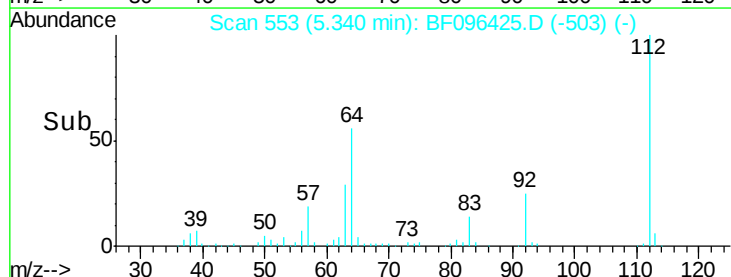
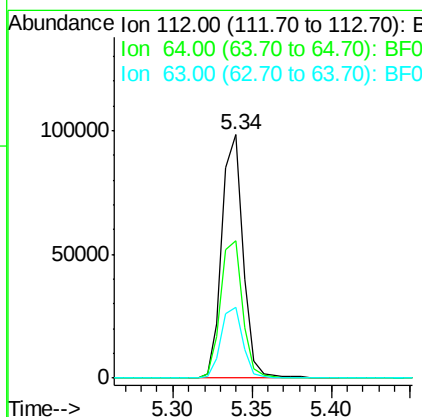
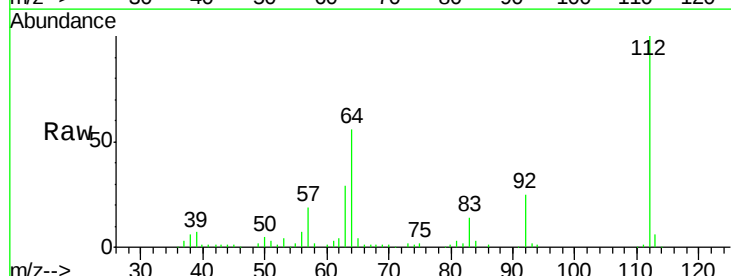
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#5

2-Fluorophenol  
Concen: 10.842 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.3  | 46.0  | 69.0  |
| 63      | 29.0  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 10.518 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF096425.D

Acq: 2 Jul 2017 19:27

Instrument :

BNA\_F

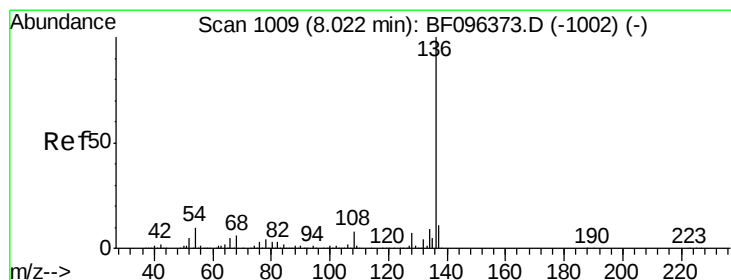
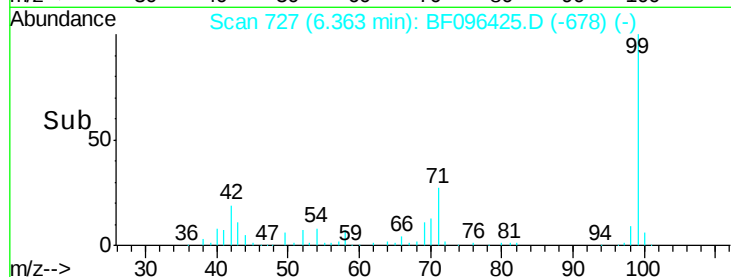
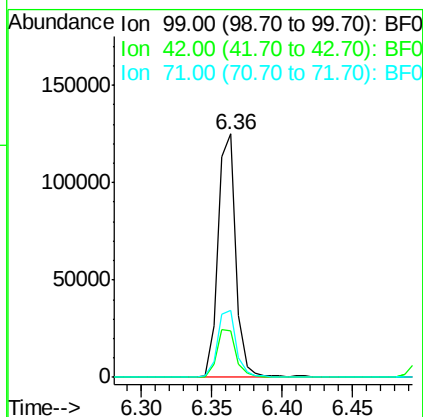
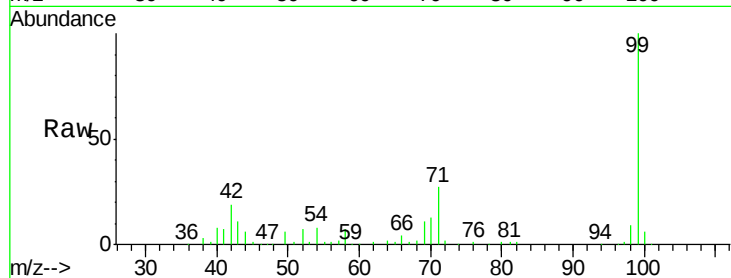
ClientSampleId :

B5-0-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 109412 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.8  | 13.5  | 20.3   |
| 71        | 27.3  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.000 ng

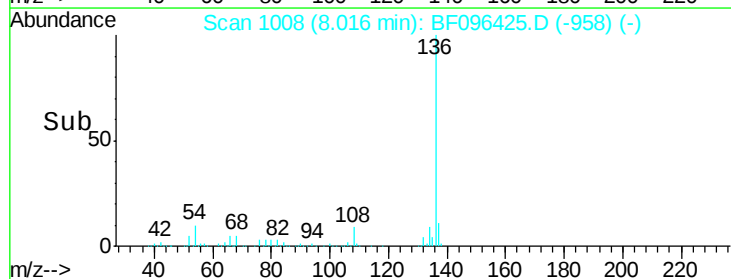
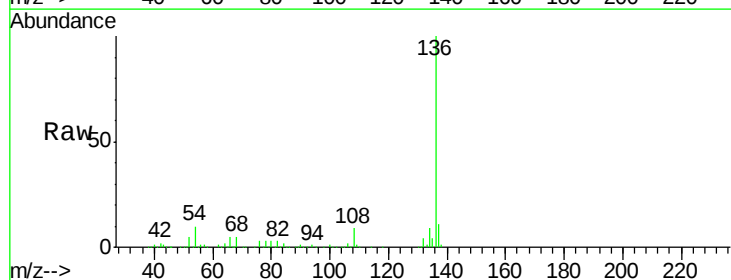
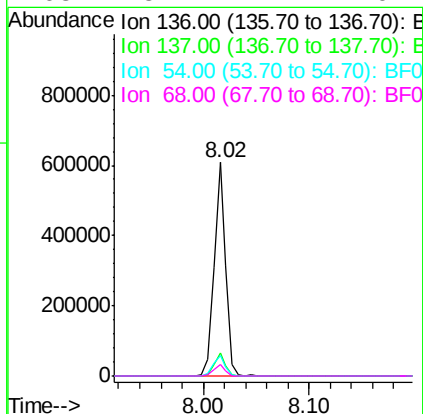
RT: 8.02 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF096425.D

Acq: 2 Jul 2017 19:27

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 472278 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.5   | 12.7   |
| 54        | 9.6   | 4.9   | 7.3#   |
| 68        | 5.4   | 4.1   | 6.1    |





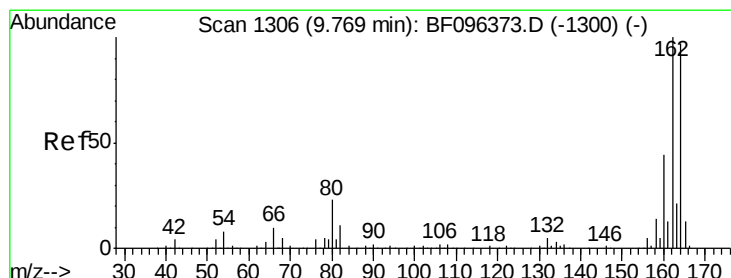
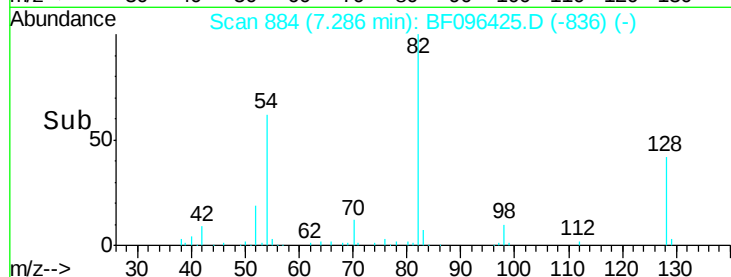
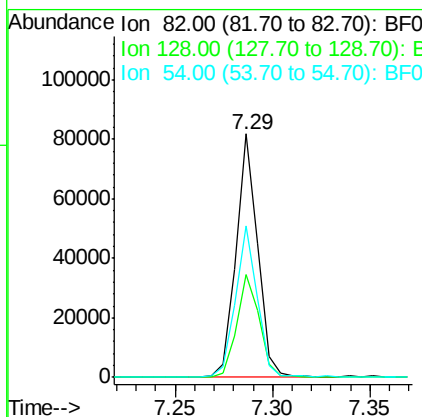
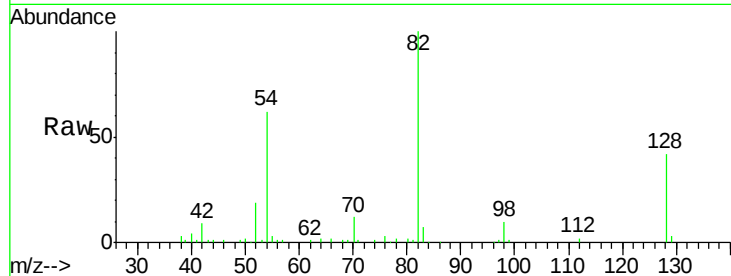
#23  
 Nitrobenzene-d5  
 Concen: 7.975 ng  
 RT: 7.29 min Scan# 884  
 Delta R.T. -0.02 min  
 Lab File: BF096425.D  
 Acq: 2 Jul 2017 19:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 42.2  | 34.0  | 51.0  |
| 54      | 62.4  | 42.2  | 63.2  |

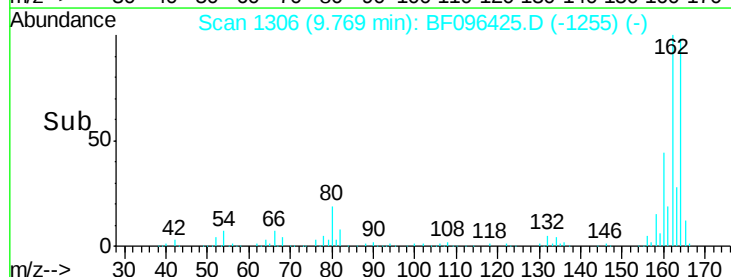
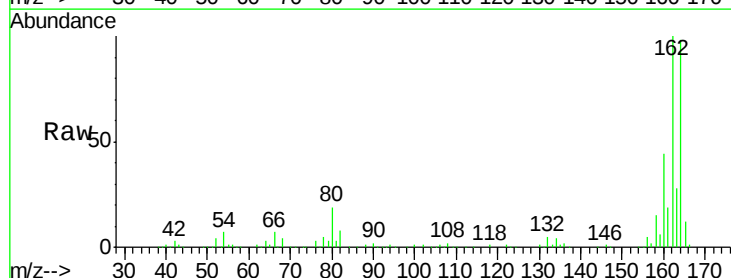
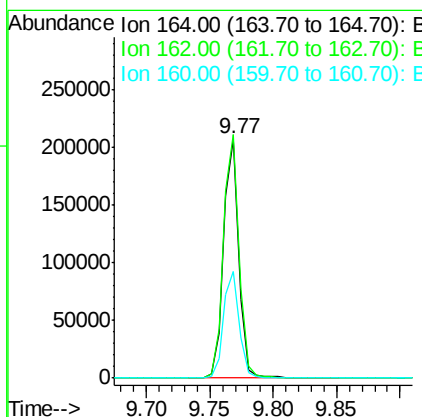
Manual Integrations  
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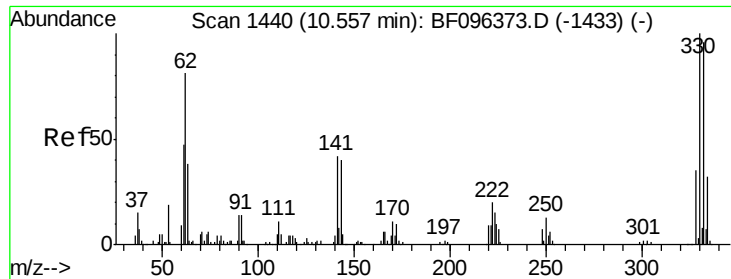
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. -0.00 min  
 Lab File: BF096425.D  
 Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 82.6  | 123.8 |
| 160     | 44.4  | 36.2  | 54.2  |





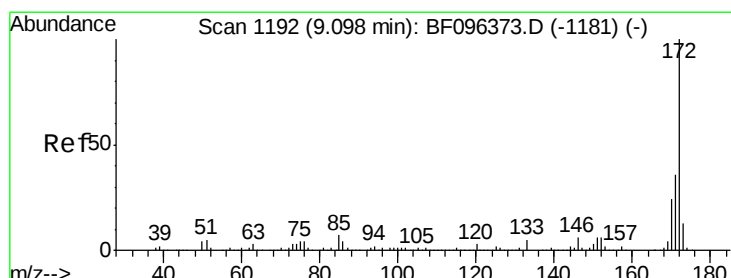
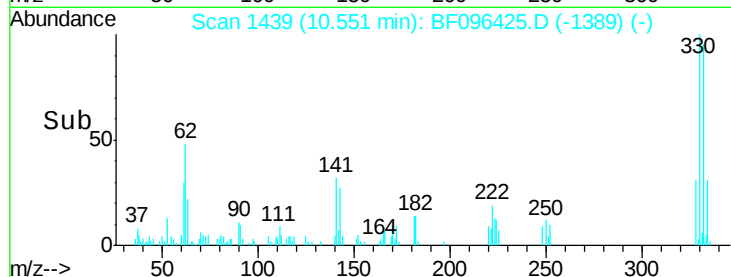
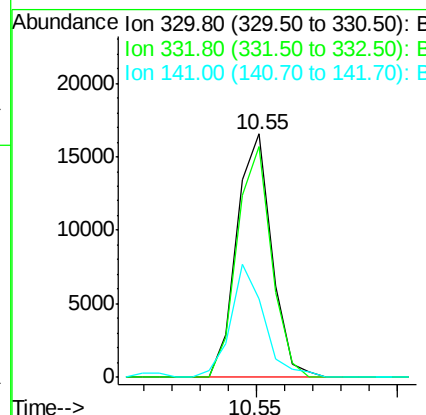
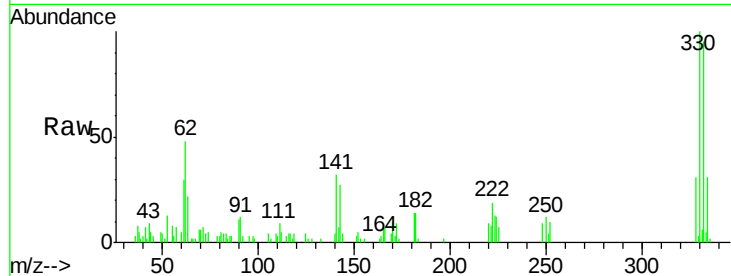
#41  
 2,4,6-Tribromophenol  
 Concen: 10.497 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF096425.D  
 Acq: 2 Jul 2017 19:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 92.8  | 76.6  | 115.0 |
| 141     | 44.3  | 31.4  | 47.2  |

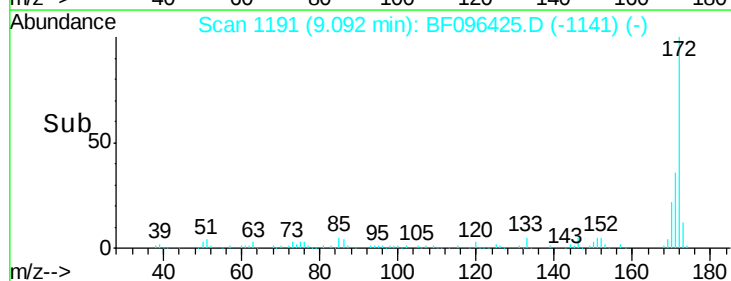
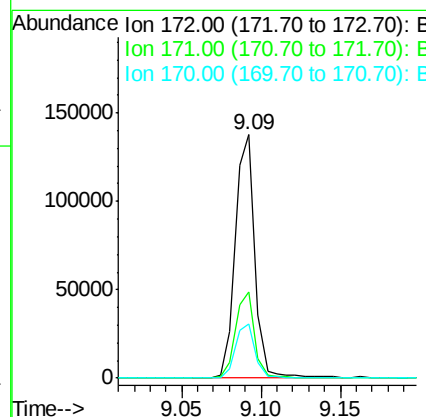
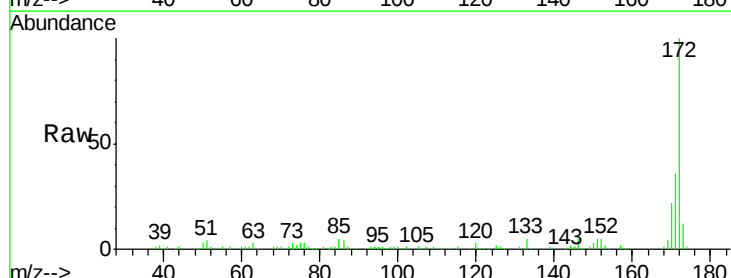
Manual Integrations  
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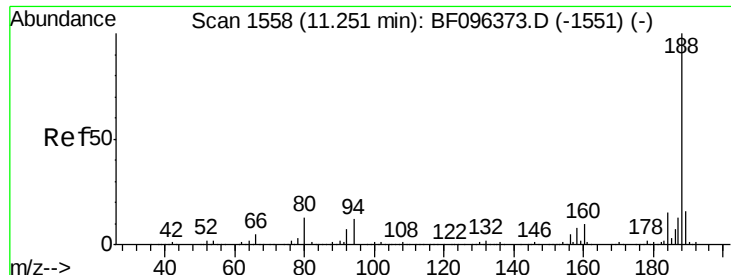
mohammad  
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#44  
 2-Fluorobiphenyl  
 Concen: 11.670 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. -0.01 min  
 Lab File: BF096425.D  
 Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 29.6  | 44.4  |
| 170     | 22.1  | 19.8  | 29.8  |





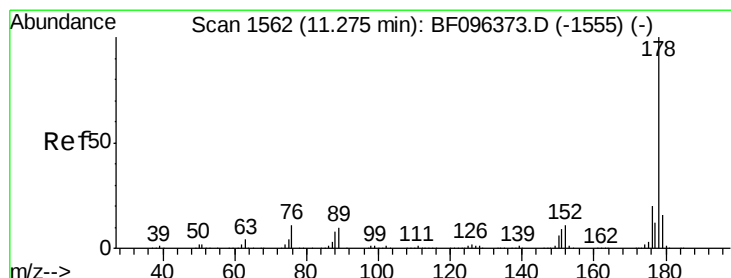
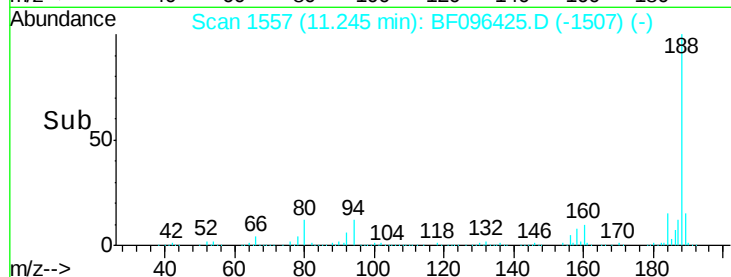
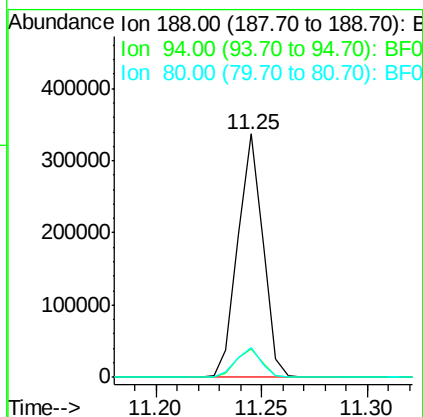
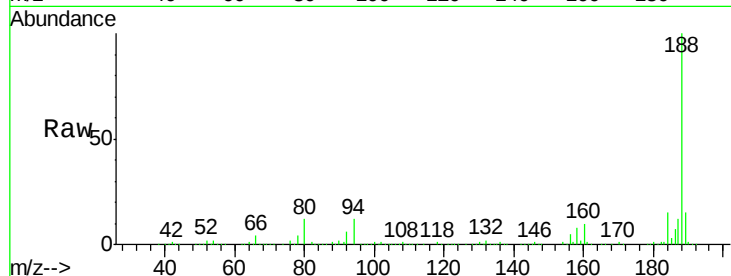
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 276873 |       |       |
| 94      | 12.0  |        | 9.4   | 14.2  |
| 80      | 12.3  |        | 10.2  | 15.2  |

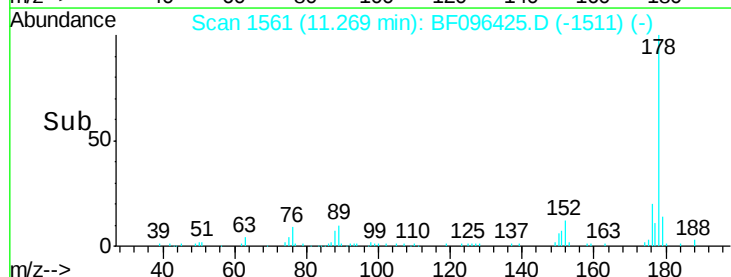
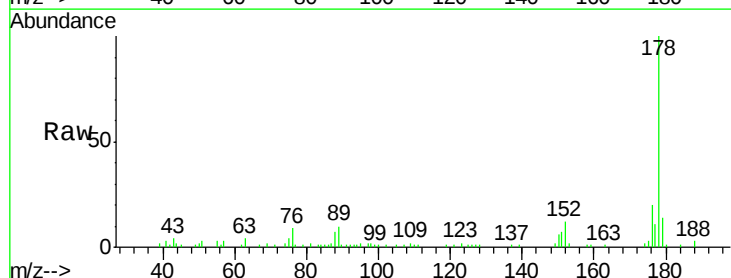
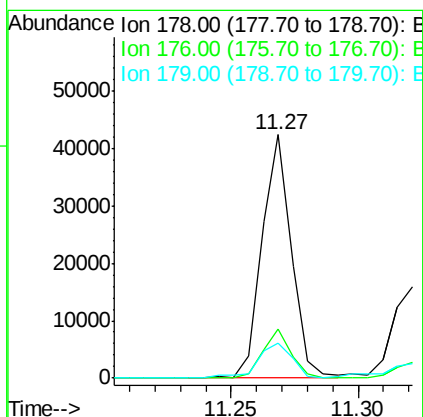
Manual Integrations  
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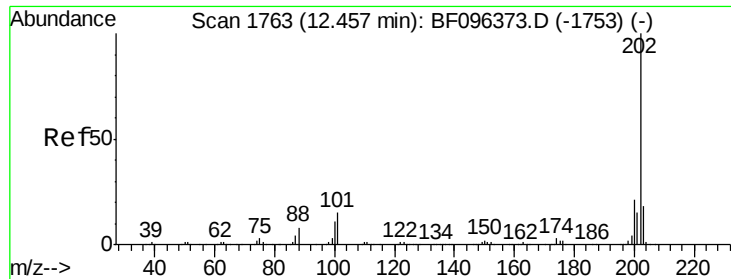
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#70  
Phenanthrene  
Concen: 2.309 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 34553 |       |       |
| 176     | 20.4  |       | 16.2  | 24.4  |
| 179     | 14.4  |       | 12.6  | 19.0  |





#74

Fluoranthene

Concen: 3.684 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.01 min

Lab File: BF096425.D

Acq: 2 Jul 2017 19:27

Instrument :

BNA\_F

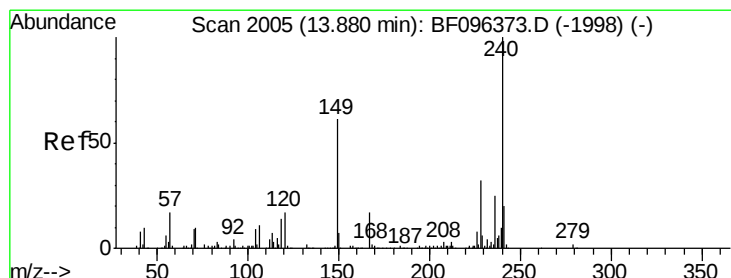
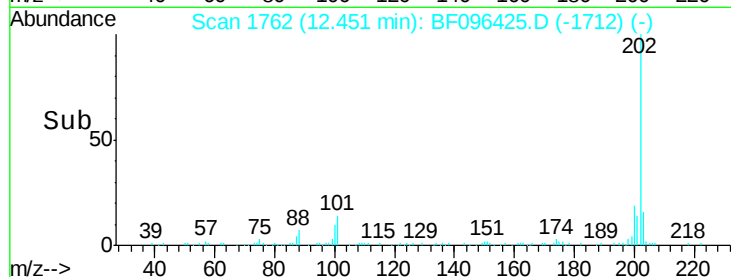
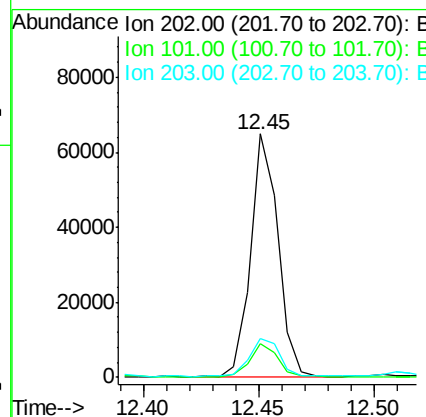
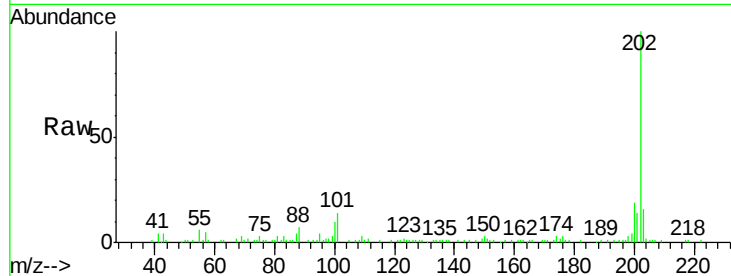
ClientSampleId :

B5-0-2

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 202   | Resp: | 54061 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 101 | 13.7  | 0.0   | 33.2  |       |
| 203 | 15.7  | 0.0   | 38.1  |       |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

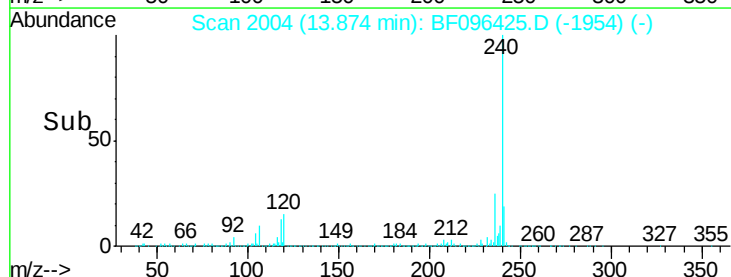
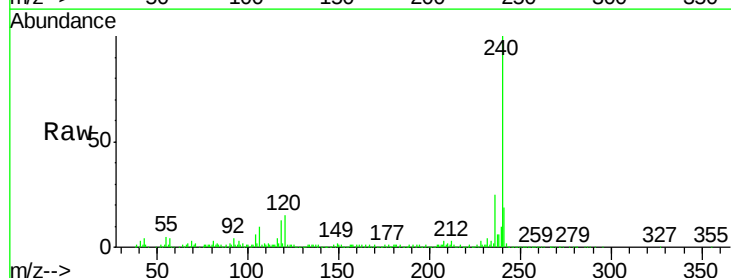
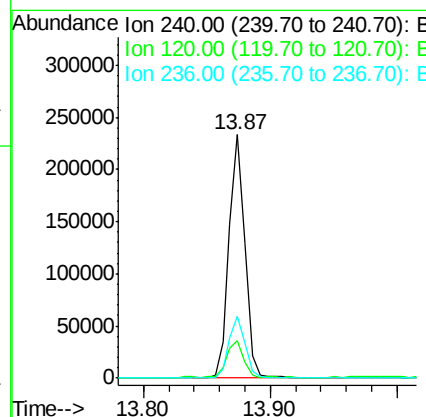
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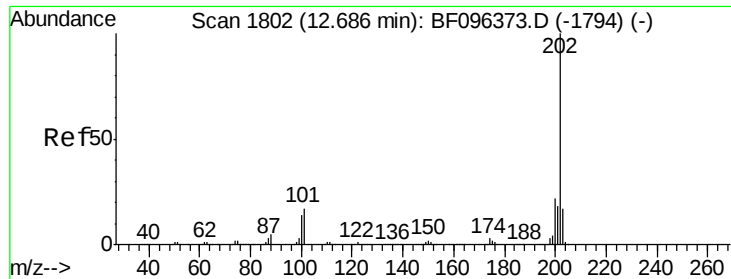
Delta R.T. -0.01 min

Lab File: BF096425.D

Acq: 2 Jul 2017 19:27

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 240   | Resp: | 205869 |
| Ion | Ratio | Lower | Upper |        |
| 240 | 100   |       |       |        |
| 120 | 15.3  | 5.8   | 8.8#  |        |
| 236 | 25.2  | 20.5  | 30.7  |        |





#77

Pyrene

Concen: 3.221 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF096425.D

Acq: 2 Jul 2017 19:27

Instrument :

BNA\_F

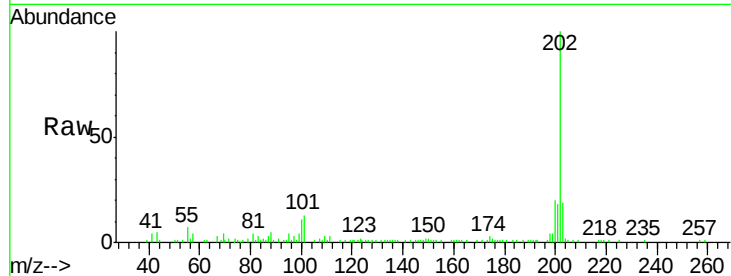
ClientSampleId :

B5-0-2

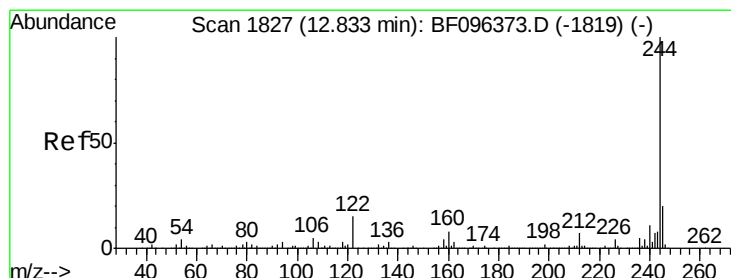
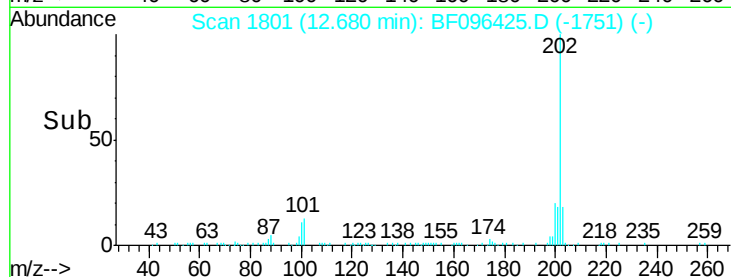
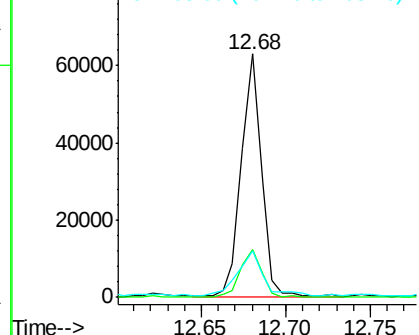
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 53232 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.5  | 17.6  | 26.4  |
| 203       | 19.2  | 14.4  | 21.6  |

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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: 7.333 ng

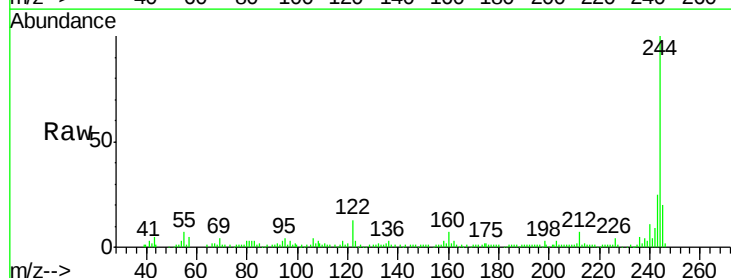
RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

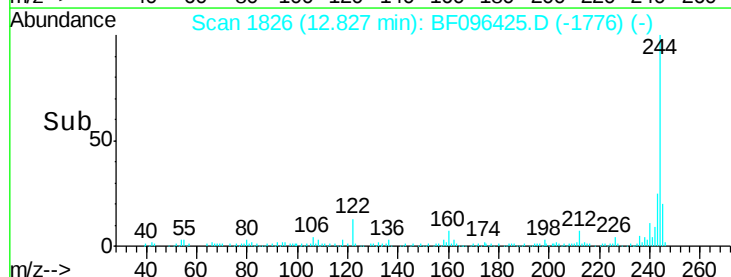
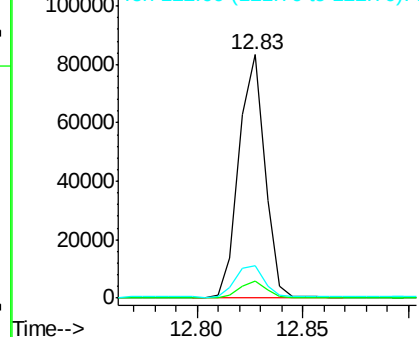
Lab File: BF096425.D

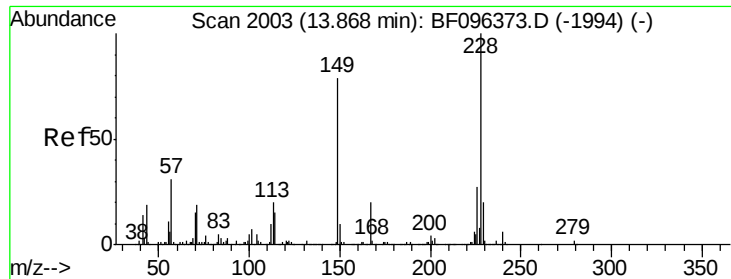
Acq: 2 Jul 2017 19:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 70652 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 6.8   | 6.0   | 9.0   |
| 122       | 13.1  | 10.3  | 15.5  |



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





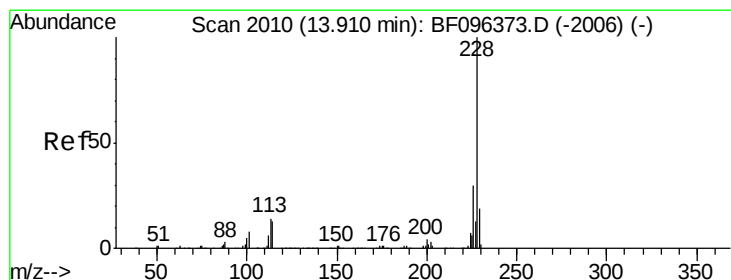
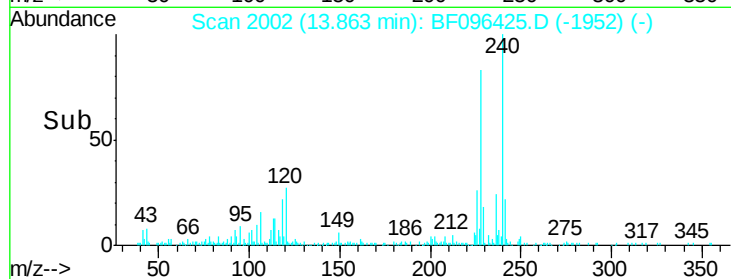
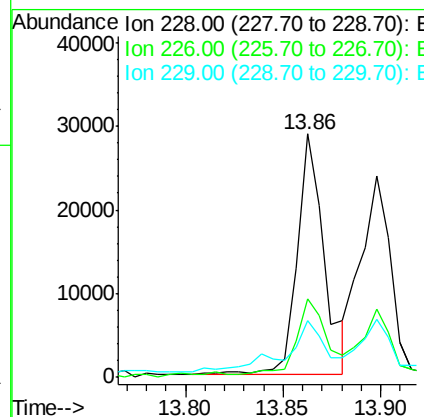
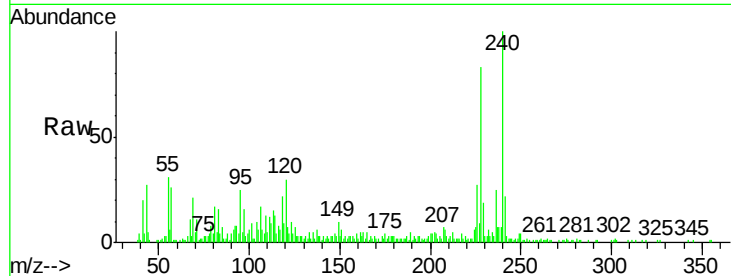
#80  
Benzo(a)anthracene  
Concen: 2.314 ng  
RT: 13.86 min Scan# 2002  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.5  | 22.6  | 33.8  |
| 229     | 23.1  | 16.3  | 24.5  |

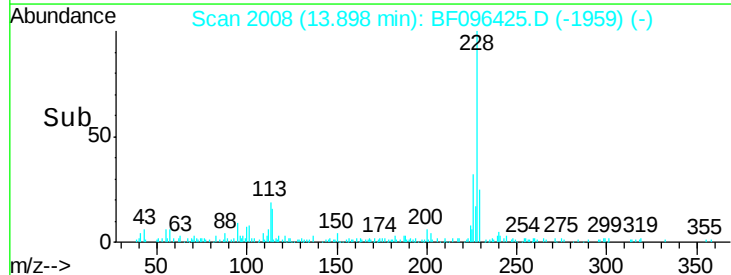
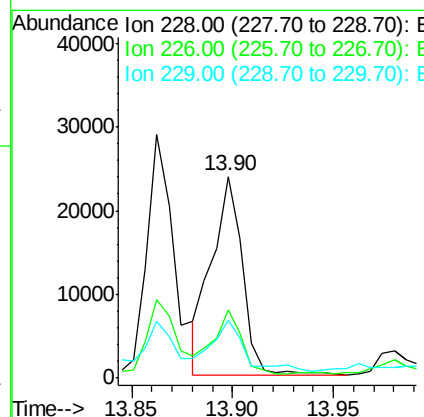
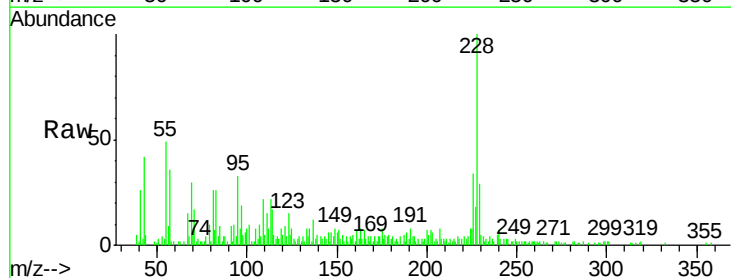
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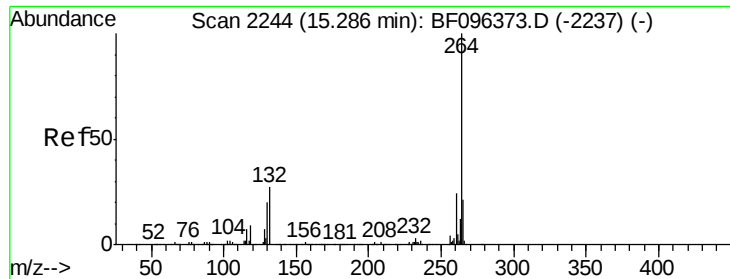
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#82  
Chrysene  
Concen: 2.065 ng m  
RT: 13.90 min Scan# 2008  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.7  | 24.9  | 37.3  |
| 229     | 28.8  | 15.8  | 23.6  |





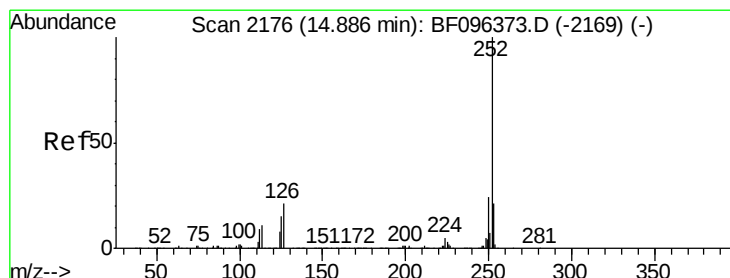
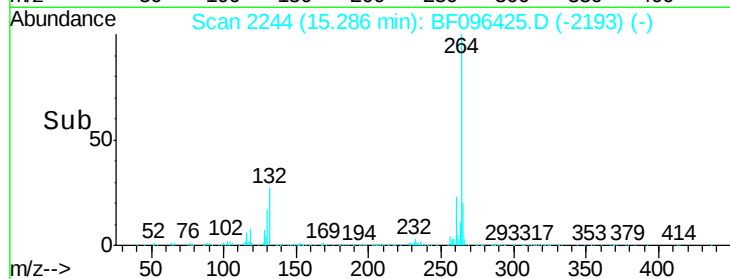
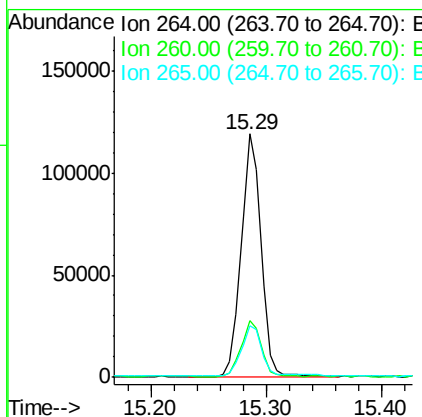
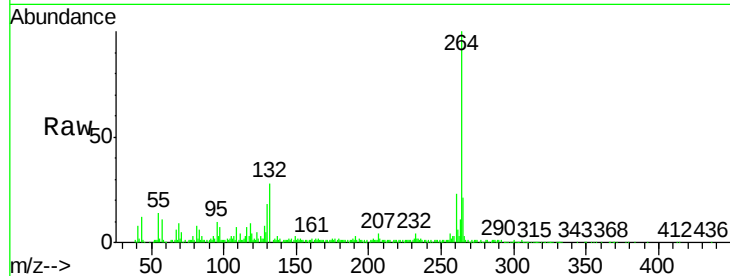
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.29 min Scan# 2244  
Delta R.T. -0.00 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.5  | 29.3  |
| 265     | 21.1  | 17.2  | 25.8  |

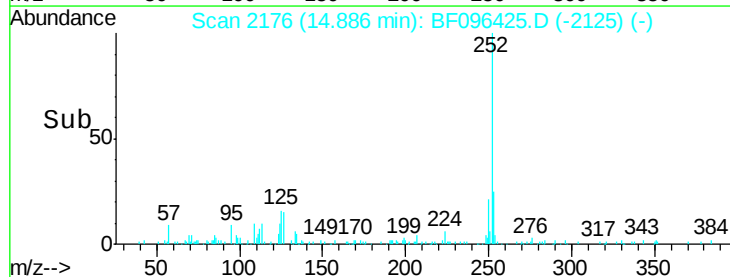
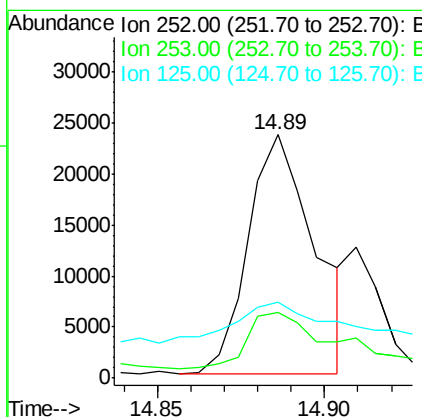
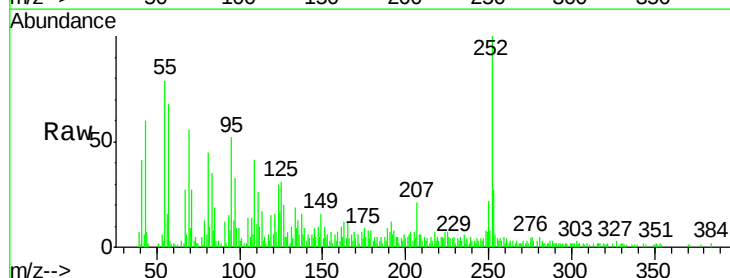
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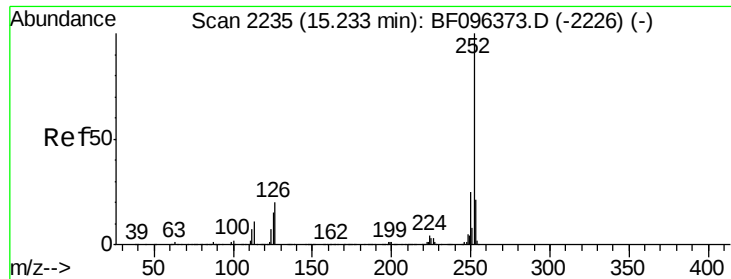
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#87  
Benzo(b)fluoranthene  
Concen: 3.588 ng m  
RT: 14.89 min Scan# 2176  
Delta R.T. -0.00 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.0  | 18.1  | 27.1  |
| 125     | 31.0  | 9.8   | 14.8# |





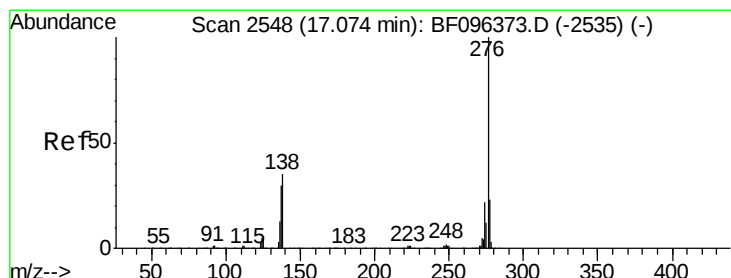
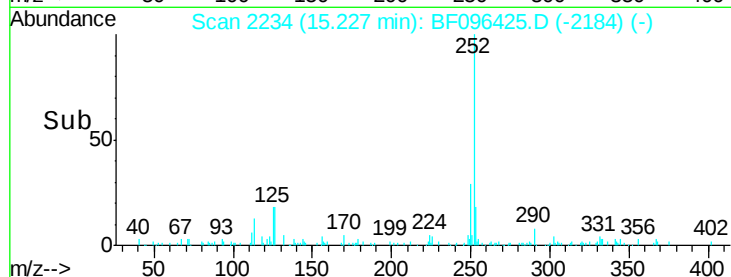
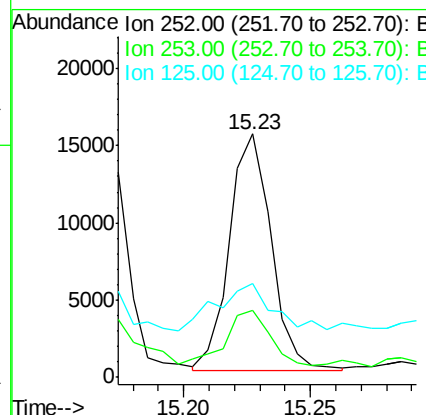
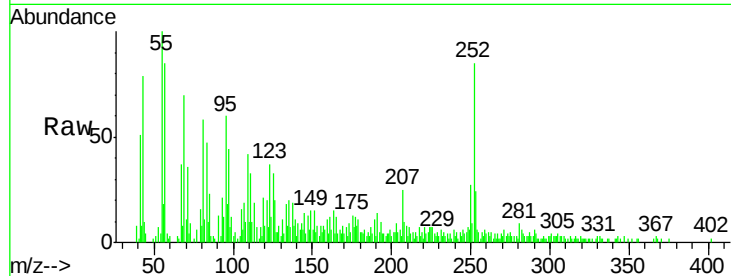
#89  
Benzo(a)pyrene  
Concen: 2.167 ng  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

Instrument :  
BNA\_F  
ClientSampleId :  
B5-0-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.5  | 26.3# |
| 125     | 38.7  | 11.0  | 16.4# |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.118 ng  
RT: 17.06 min Scan# 2546  
Delta R.T. -0.01 min  
Lab File: BF096425.D  
Acq: 2 Jul 2017 19:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 29.6  | 18.6  | 28.0# |
| 138     | 43.3  | 25.4  | 38.0# |

