

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\  
 Data File : BF098177.D  
 Acq On : 31 Aug 2017 1:14  
 Operator : SJ/JU  
 Sample : I5023-01 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-082917-A

Manual Integrations  
 APPROVED

Sohil  
 8/31/2017 7:12:54 PM

Quant Time: Aug 31 08:11:07 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 120961   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 8.01  | 136  | 438193   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.76  | 164  | 163443   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.24 | 188  | 275770   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.88 | 240  | 245086   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.30 | 264  | 175209   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 453575   | 57.04  | ng    | -0.02    |
| 7) Phenol-d6                | 6.36  | 99   | 597661   | 55.31  | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 341894   | 42.39  | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 73028    | 51.50  | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 478231   | 42.99  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.83 | 244  | 359883   | 30.62  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.03  | 128  | 54821    | 2.410  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.72  | 142  | 44337    | 3.179  | ng    | 96       |
| 48) Acenaphthylene          | 9.62  | 152  | 62943    | 3.640  | ng    | # 96     |
| 49) Dimethylphthalate       | 9.48  | 163  | 69593    | 5.825  | ng    | 98       |
| 51) Acenaphthene            | 9.79  | 154  | 49141    | 4.506  | ng    | 98       |
| 54) Dibenzofuran            | 9.96  | 168  | 50830    | 3.477  | ng    | # 94     |
| 57) Fluorene                | 10.30 | 166  | 110040   | 9.737  | ng    | 97       |
| 70) Phenanthrene            | 11.27 | 178  | 677771   | 46.123 | ng    | 100      |
| 71) Anthracene              | 11.32 | 178  | 251969   | 16.905 | ng    | 98       |
| 72) Carbazole               | 11.47 | 167  | 52436    | 3.706  | ng    | 98       |
| 74) Fluoranthene            | 12.46 | 202  | 1171650  | 76.388 | ng    | 98       |
| 77) Pyrene                  | 12.69 | 202  | 1242909  | 62.005 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.87 | 228  | 620649   | 42.253 | ng    | 97       |
| 82) Chrysene                | 13.91 | 228  | 568285   | 38.891 | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.67 | 276  | 207502   | 19.304 | ng    | # 90     |
| 87) Benzo(b)fluoranthene    | 14.90 | 252  | 596065m  | 53.972 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.92 | 252  | 135372m  | 13.047 | ng    |          |
| 89) Benzo(a)pyrene          | 15.24 | 252  | 411813   | 42.121 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene  | 16.68 | 278  | 56771    | 7.132  | ng    | # 88     |
| 91) Benzo(a,h,i)perylene    | 17.09 | 276  | 193070   | 23.247 | ng    | 93       |

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

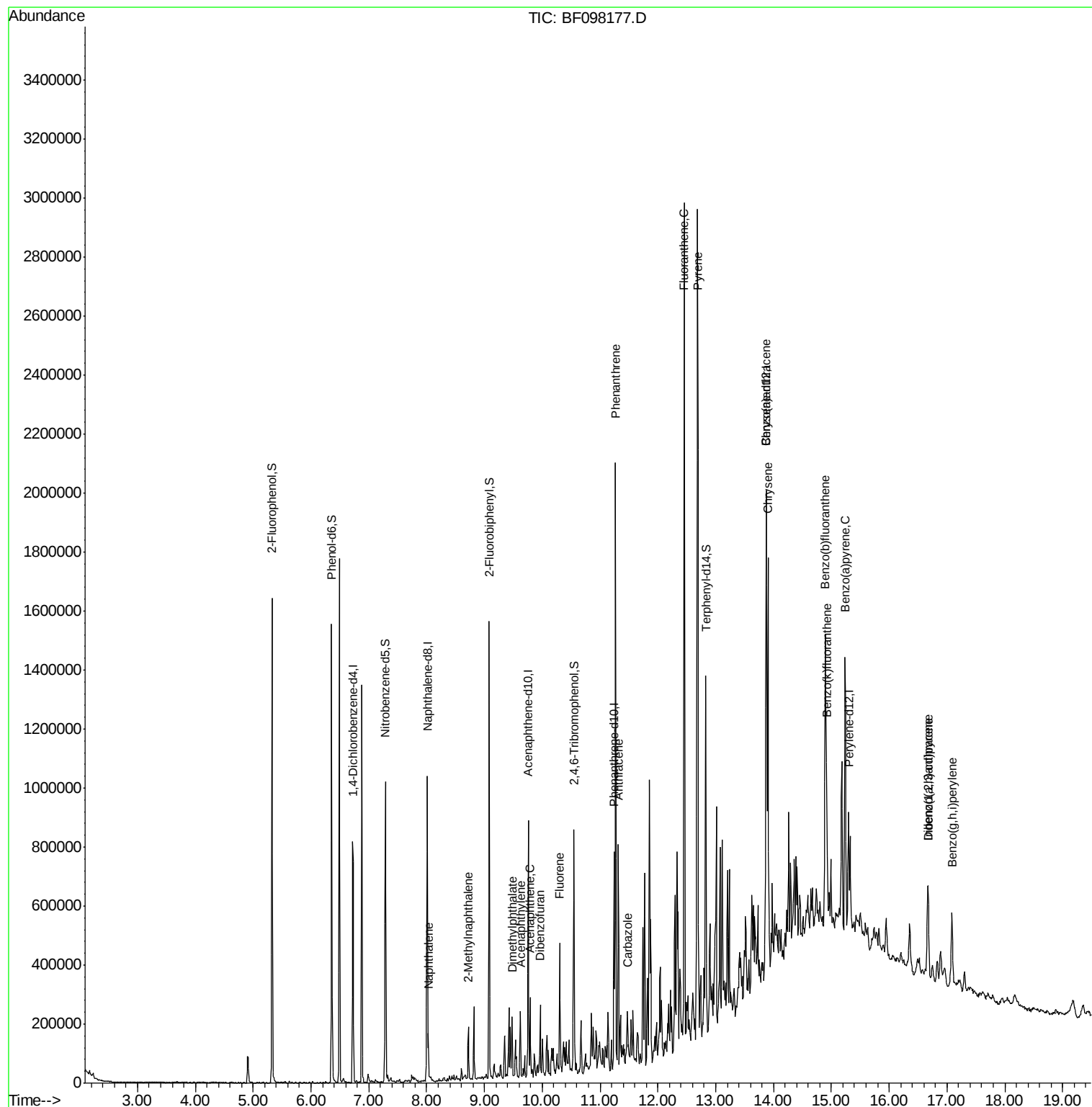
Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\  
Data File : BF098177.D  
Acq On : 31 Aug 2017 1:14  
Operator : SJ/JU  
Sample : I5023-01 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

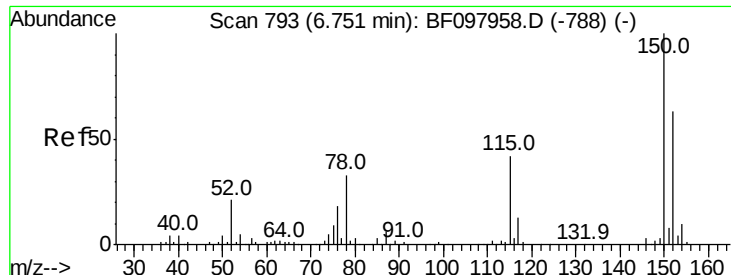
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-082917-A

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Quant Time: Aug 31 08:11:07 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
Response via : Initial Calibration





#1

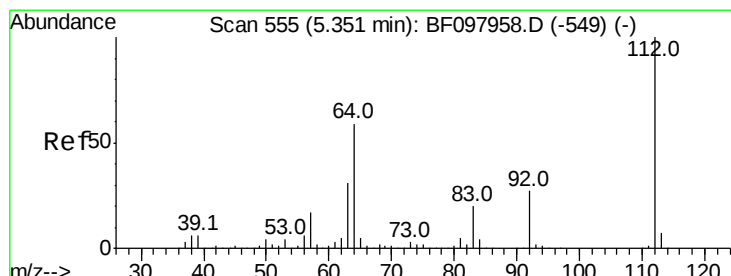
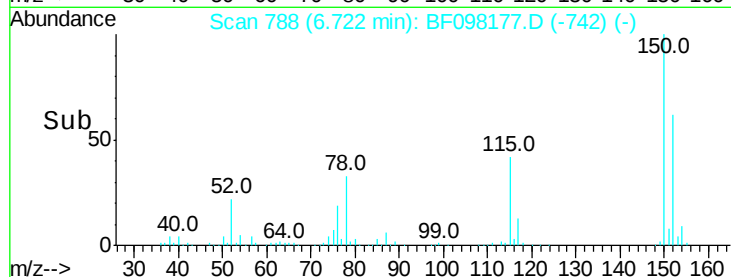
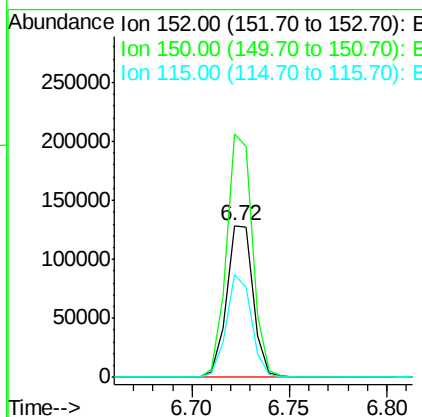
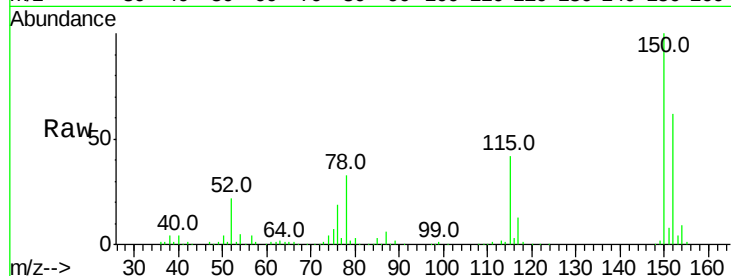
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.03 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-082917-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.3 | 126.2 | 189.2 |
| 115     | 68.1  | 52.2  | 78.2  |

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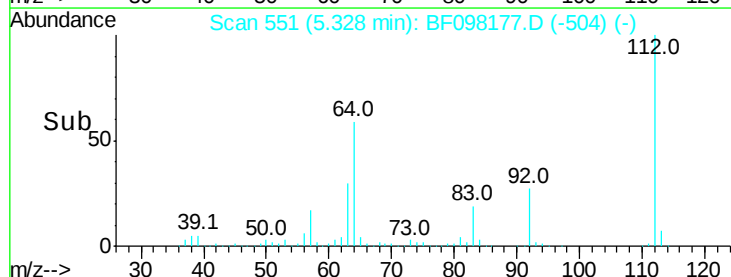
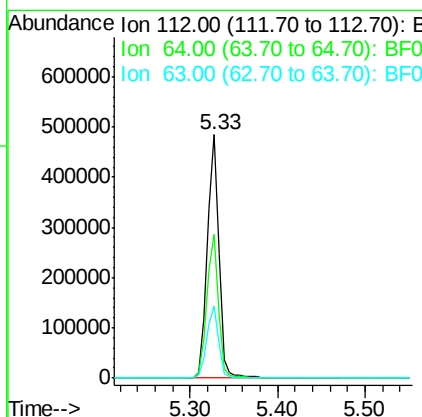
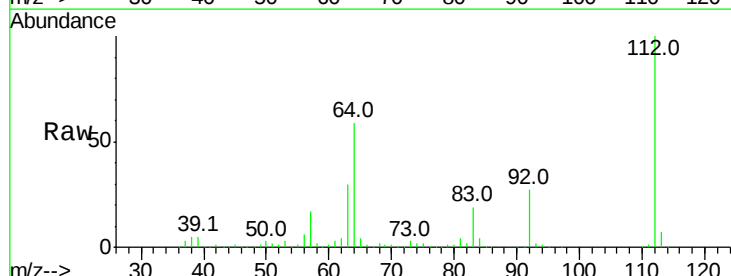
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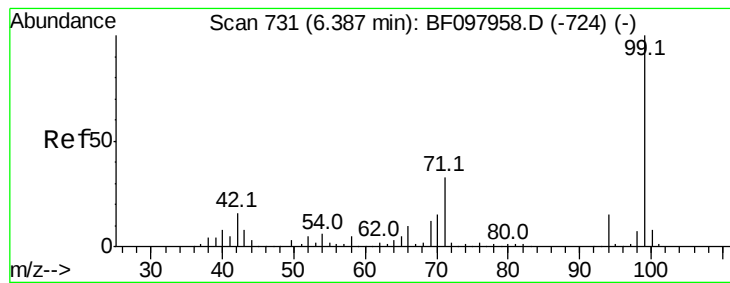


#5

2-Fluorophenol  
Concen: 57.037 ng  
RT: 5.33 min Scan# 551  
Delta R.T. -0.02 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.0  | 46.0  | 69.0  |
| 63      | 29.7  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 55.314 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

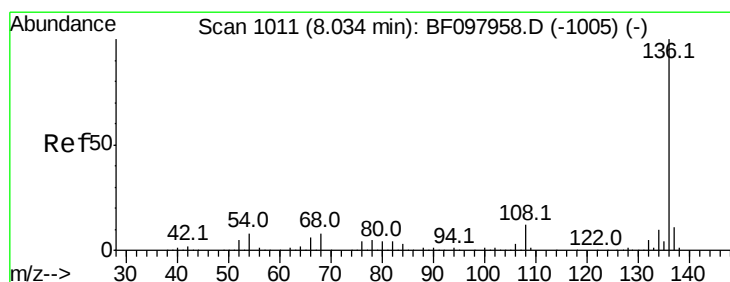
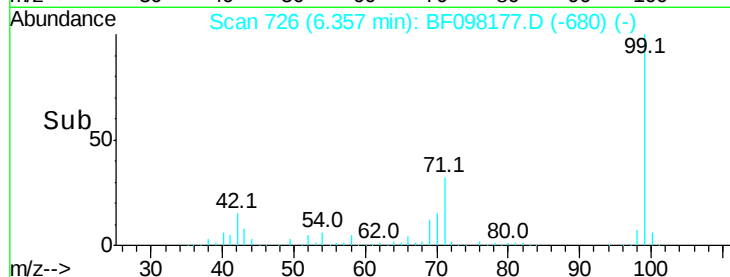
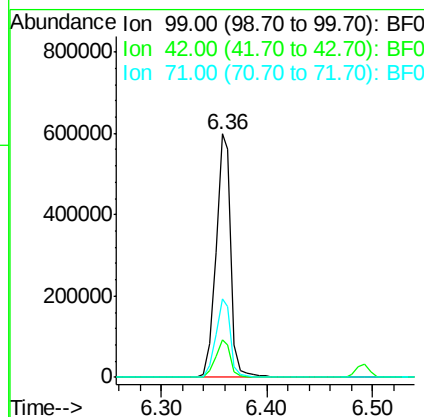
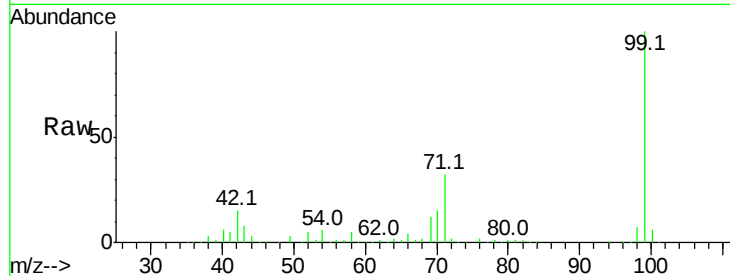
ClientSampleId :

PL-01-082917-A

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 597661 |       |       |
| 42      | 15.4 | 13.5  | 20.3   |       |       |
| 71      | 32.2 | 24.5  | 36.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

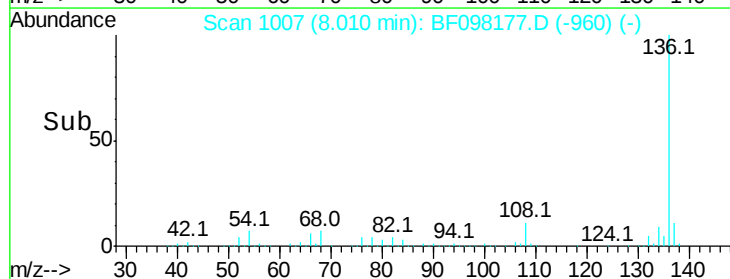
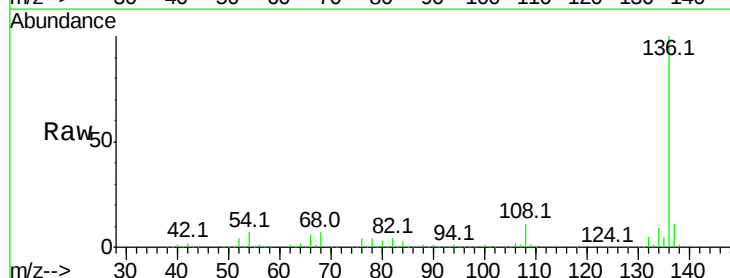
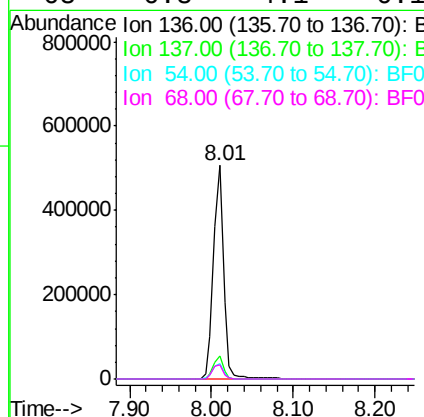
RT: 8.01 min Scan# 1007

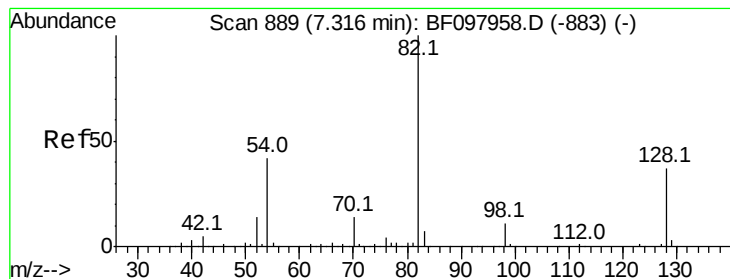
Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 438193 |       |       |
| 137     | 10.6 | 8.5   | 12.7   |       |       |
| 54      | 7.3  | 4.9   | 7.3#   |       |       |
| 68      | 6.8  | 4.1   | 6.1#   |       |       |





#23

Nitrobenzene-d5

Concen: 42.386 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.04 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

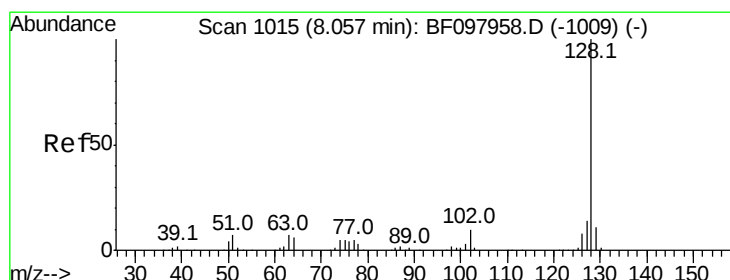
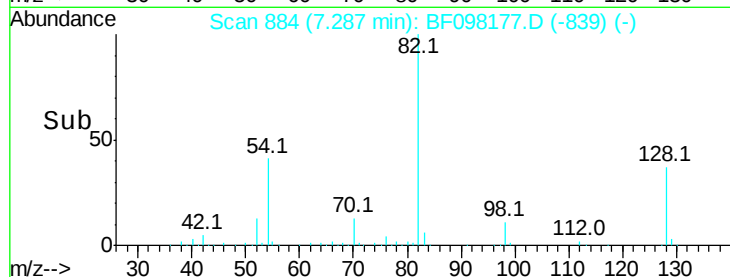
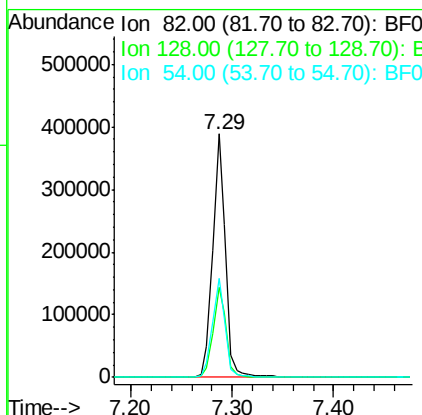
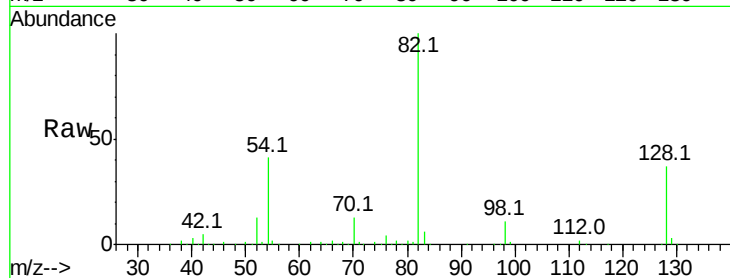
ClientSampleId :

PL-01-082917-A

| Tot Ion   | 82    | Resp  | 341894 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 36.9  | 34.0  | 51.0   |
| 54        | 40.7  | 42.2  | 63.2#  |

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#31

Naphthalene

Concen: 2.410 ng

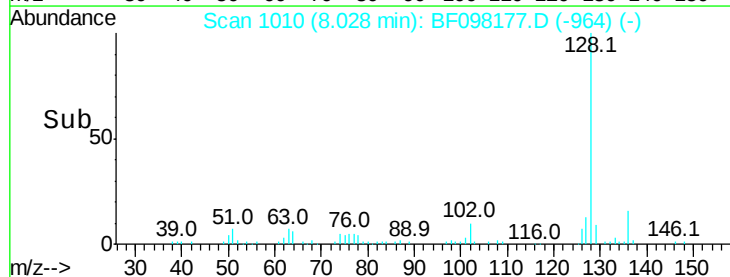
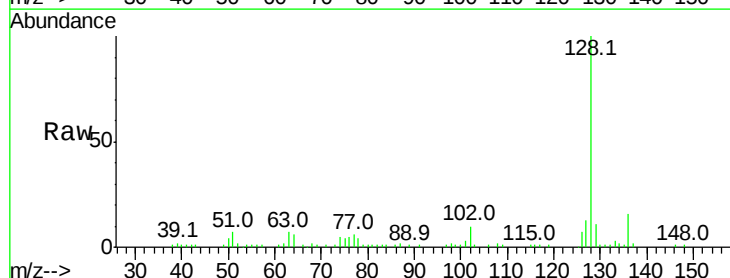
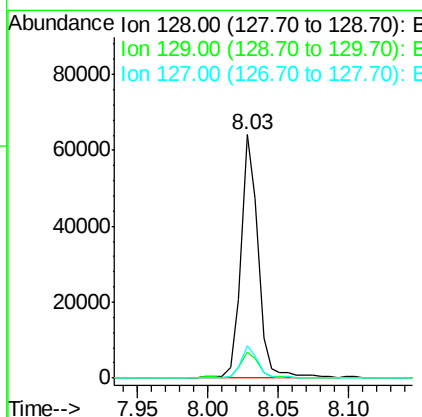
RT: 8.03 min Scan# 1010

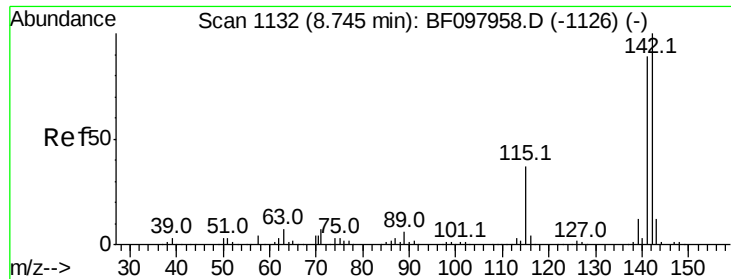
Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

| Tgt Ion   | 128   | Resp  | 54821 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 10.6  | 9.0   | 13.6  |
| 127       | 13.3  | 10.8  | 16.2  |





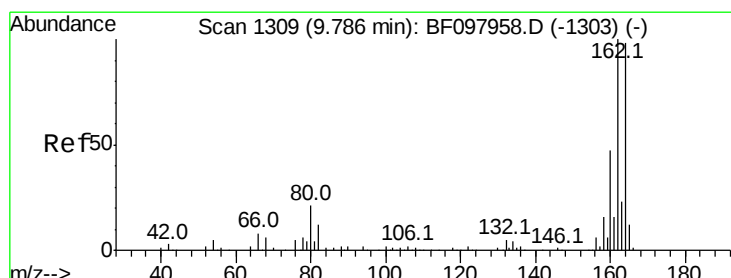
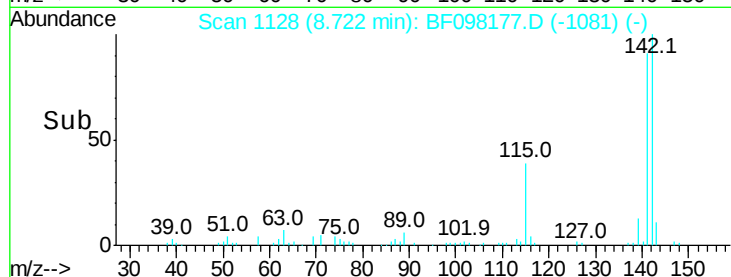
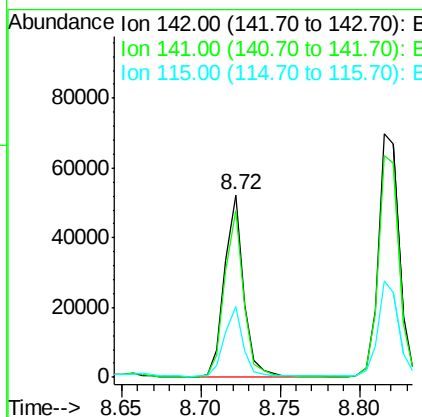
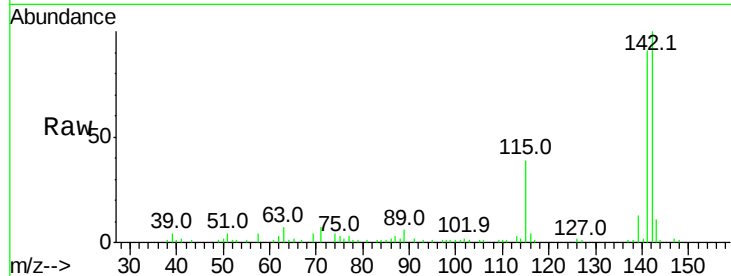
#37  
 2-Methylnaphthalene  
 Concen: 3.179 ng  
 RT: 8.72 min Scan# 1128  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-082917-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.3  | 71.3  | 106.9 |
| 115     | 38.5  | 27.1  | 40.7  |

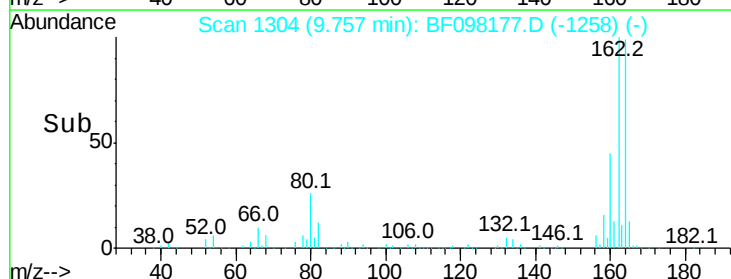
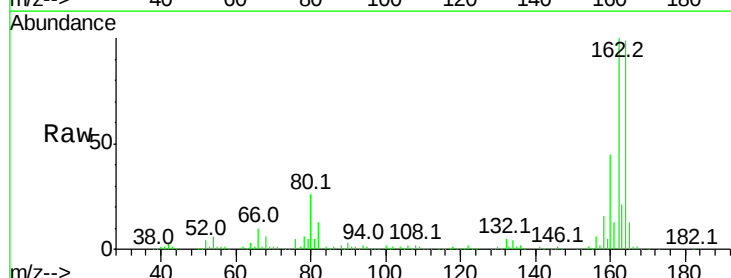
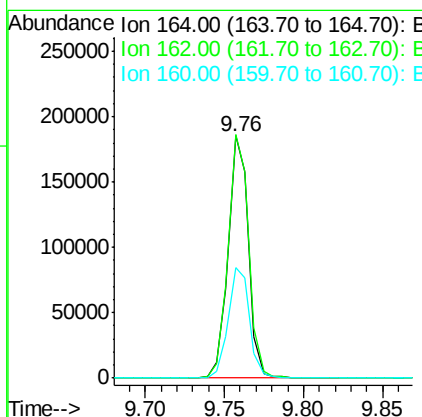
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.03 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.7 | 82.6  | 123.8 |
| 160     | 45.5  | 36.2  | 54.2  |





#41

2,4,6-Tribromophenol

Concen: 51.496 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

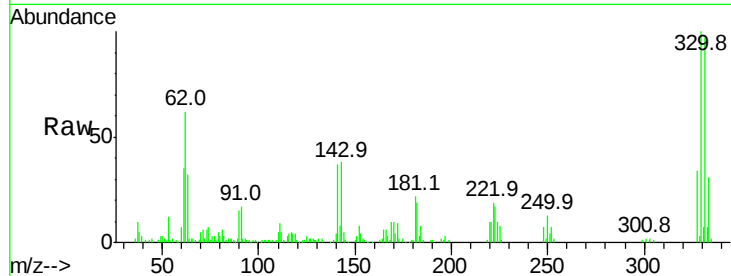
ClientSampleId :

PL-01-082917-A

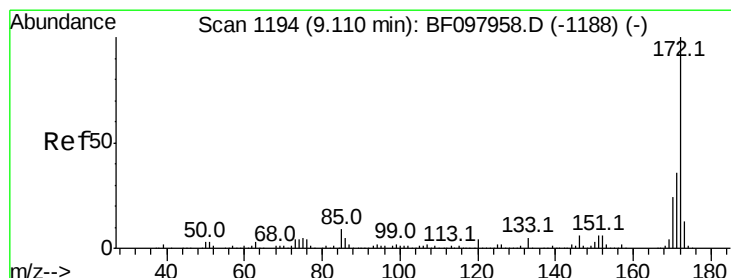
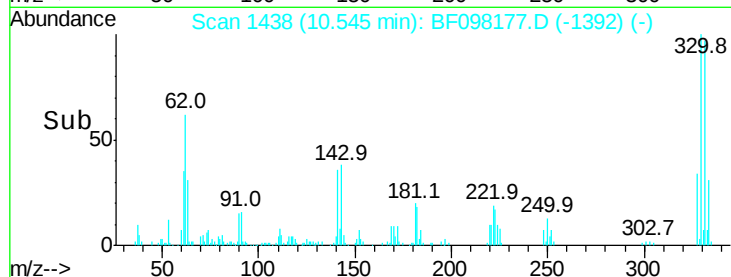
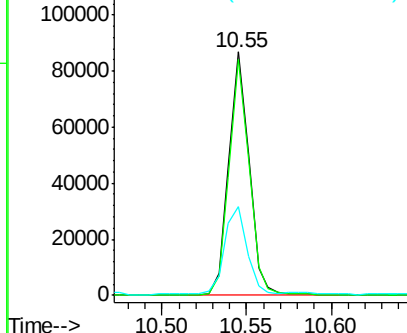
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 73028 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 95.8  | 76.6  | 115.0 |
| 141       | 39.3  | 31.4  | 47.2  |

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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: 42.989 ng

RT: 9.09 min Scan# 1190

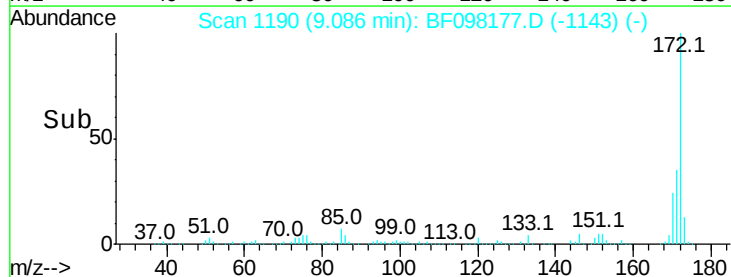
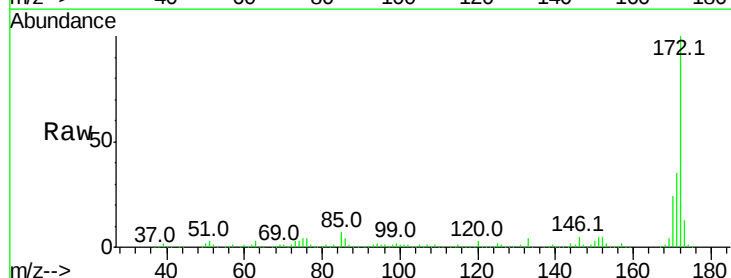
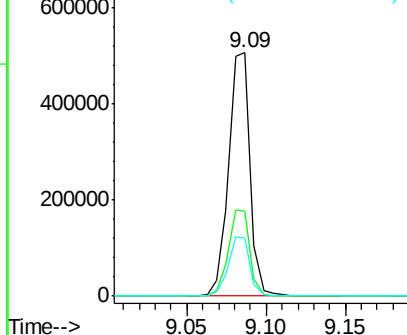
Delta R.T. -0.02 min

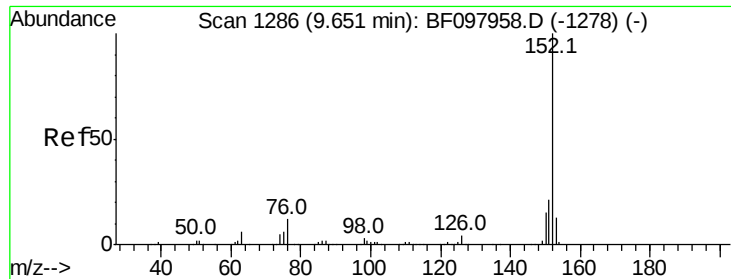
Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 478231 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.1  | 29.6  | 44.4   |
| 170       | 24.1  | 19.8  | 29.8   |

Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 3.640 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

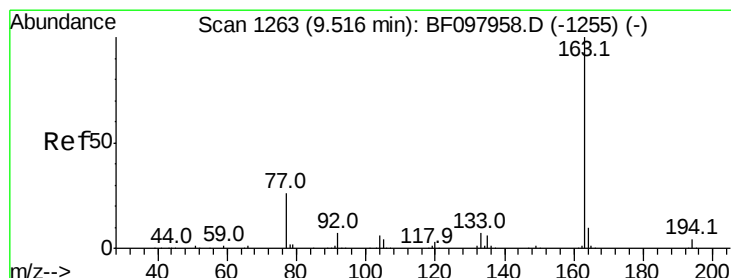
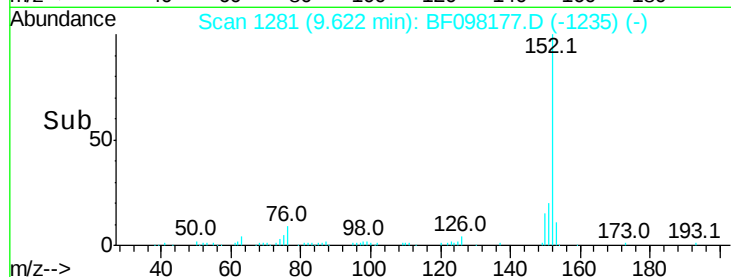
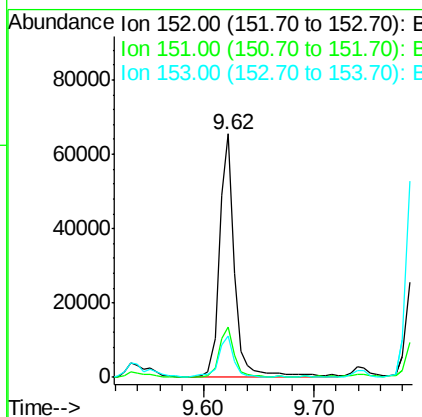
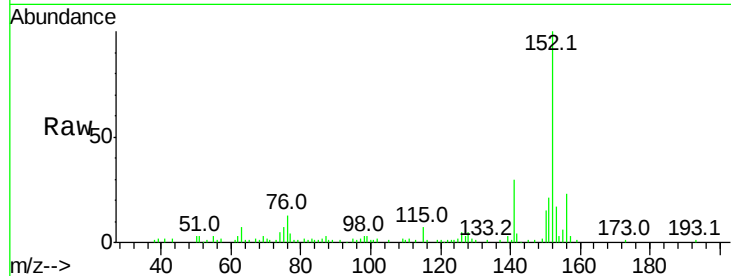
ClientSampleId :

PL-01-082917-A

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 62943 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.9  | 16.8  | 25.2  |
| 153       | 16.9  | 10.8  | 16.2# |

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#49

Dimethylphthalate

Concen: 5.825 ng

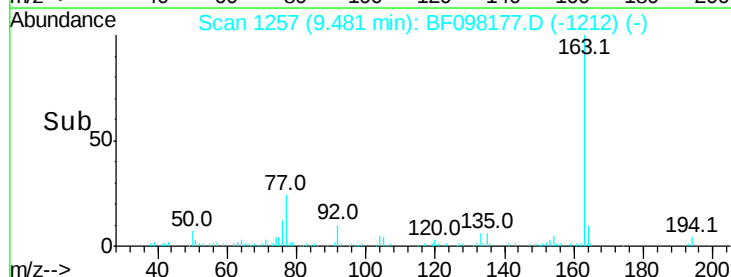
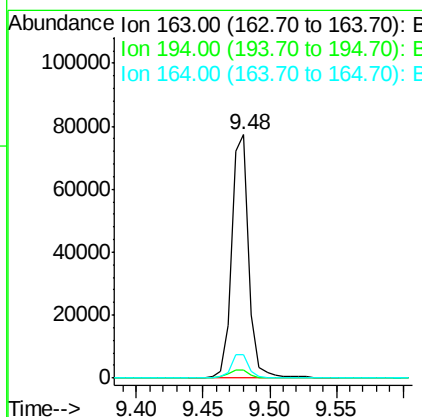
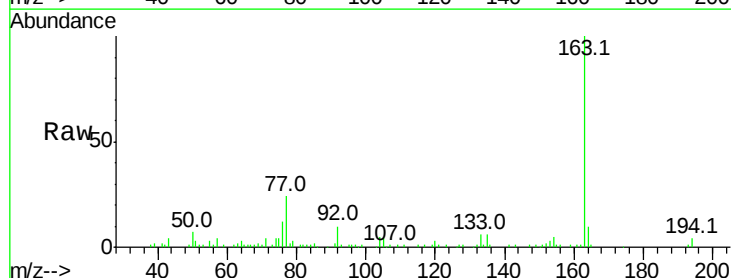
RT: 9.48 min Scan# 1257

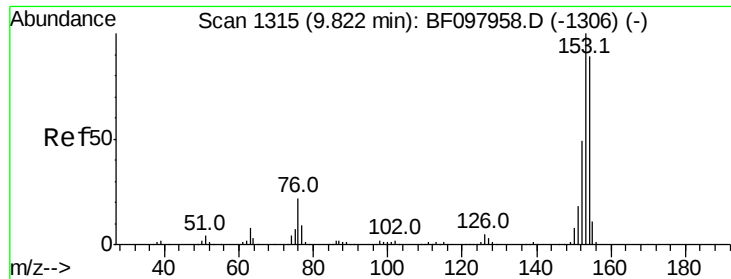
Delta R.T. -0.04 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 69593 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.5   | 2.6   | 4.0   |
| 164       | 9.7   | 8.4   | 12.6  |





#51

Acenaphthene

Concen: 4.506 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

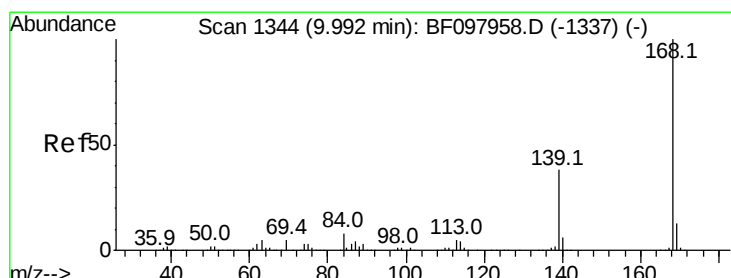
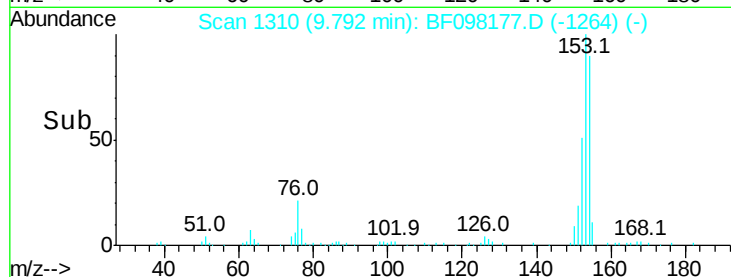
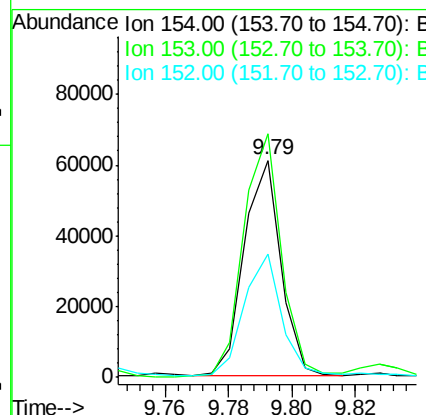
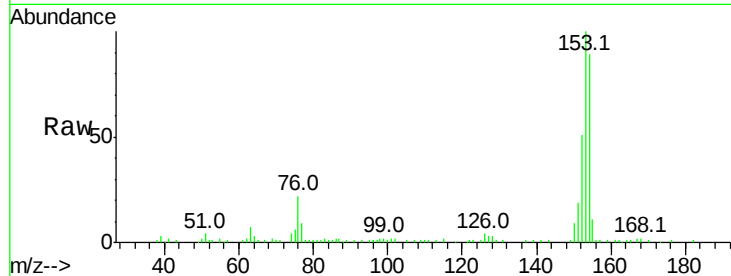
ClientSampleId :

PL-01-082917-A

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 49141 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 112.3 | 90.5  | 135.7 |
| 152       | 56.9  | 43.6  | 65.4  |

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#54

Dibenzofuran

Concen: 3.477 ng

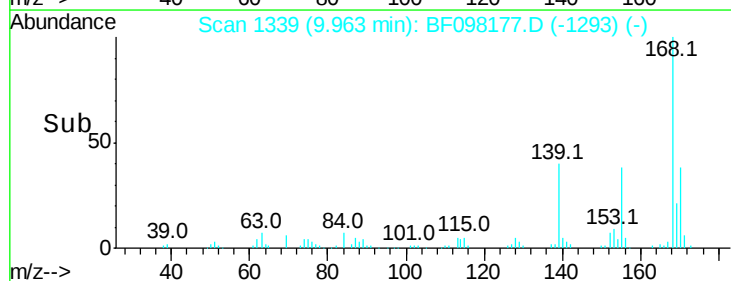
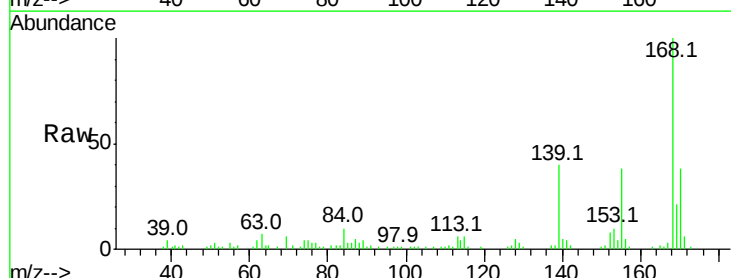
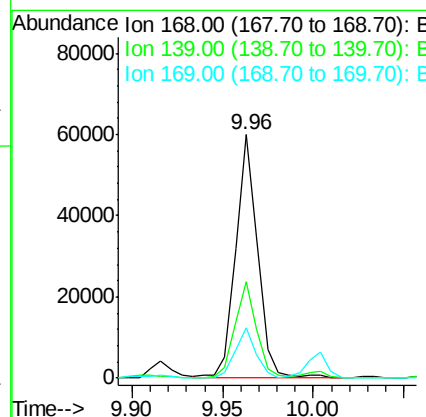
RT: 9.96 min Scan# 1339

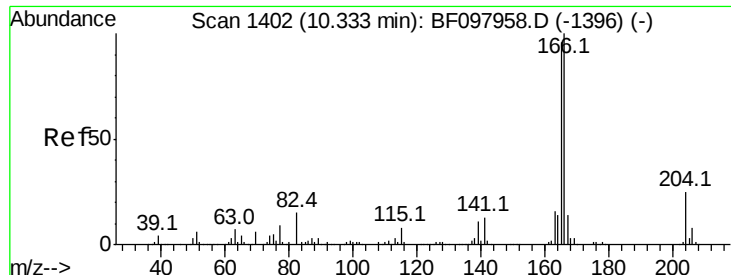
Delta R.T. -0.03 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 50830 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 39.6  | 30.6  | 45.8  |
| 169       | 20.9  | 10.8  | 16.2# |





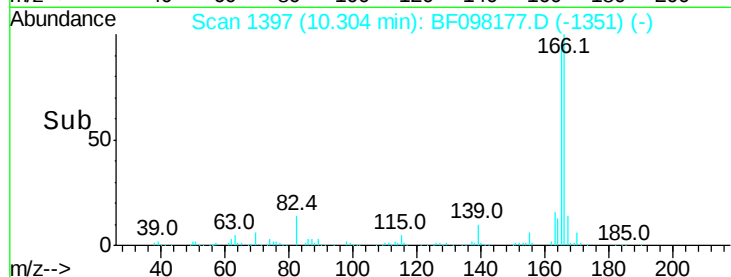
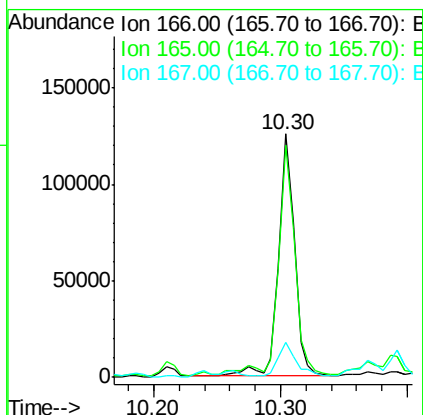
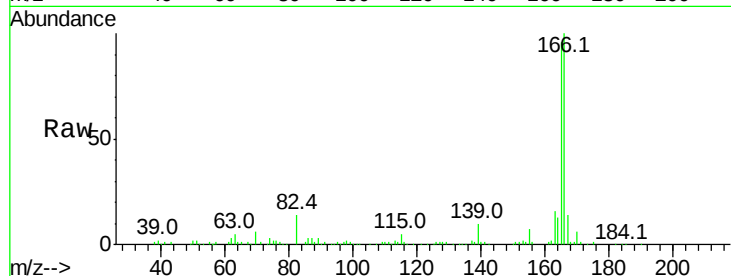
#57  
**Fluorene**  
 Concen: 9.737 ng  
 RT: 10.30 min Scan# 1397  
 Delta R.T. -0.03 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-082917-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 110040 |       |       |
| 165     | 95.5  | 78.8   | 118.2 |       |
| 167     | 14.4  | 10.6   | 16.0  |       |

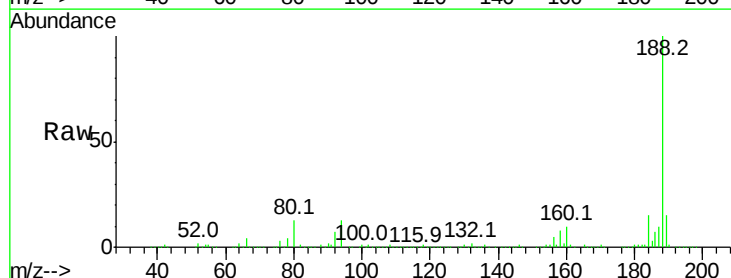
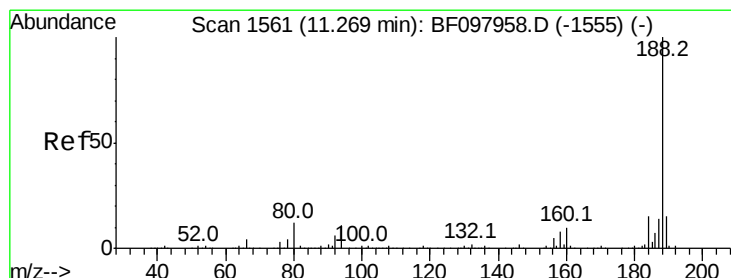
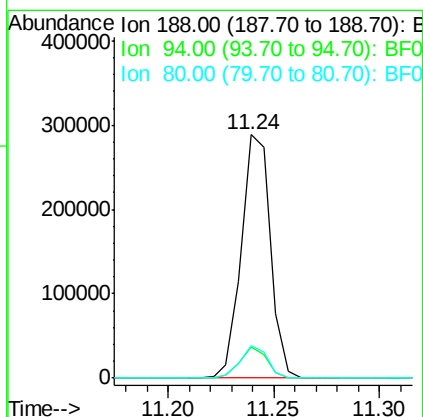
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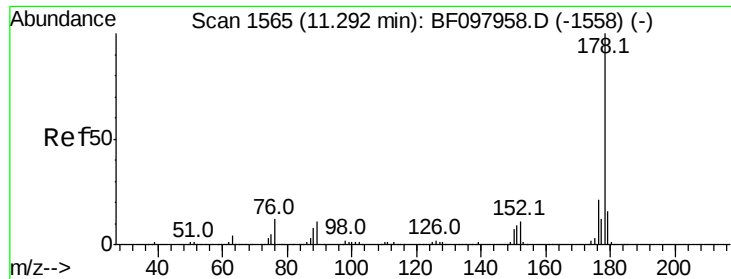
Sohil  
 8/31/2017 7:12:54 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 275770 |       |       |
| 94      | 12.8  | 9.4    | 14.2  |       |
| 80      | 13.4  | 10.2   | 15.2  |       |





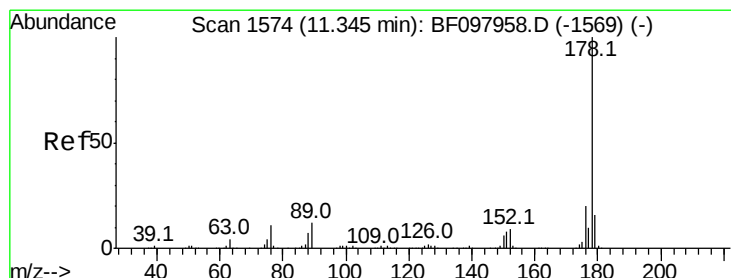
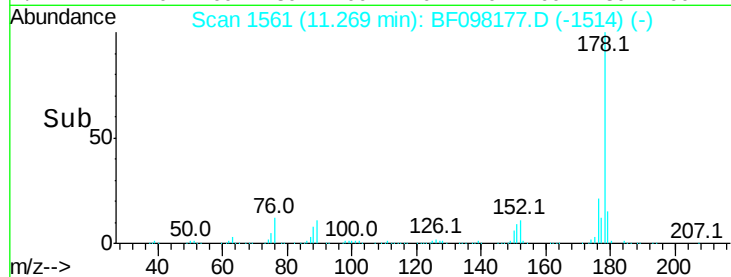
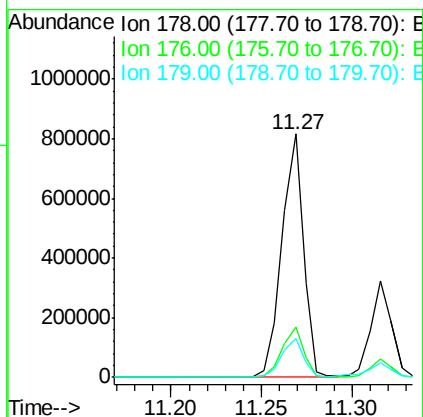
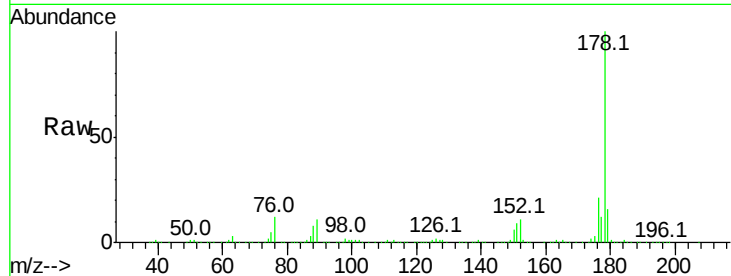
#70  
Phenanthrene  
Concen: 46.123 ng  
RT: 11.27 min Scan# 1561  
Delta R.T. -0.02 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampled :  
PL-01-082917-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.5  | 16.2  | 24.4  |
| 179     | 16.0  | 12.6  | 19.0  |

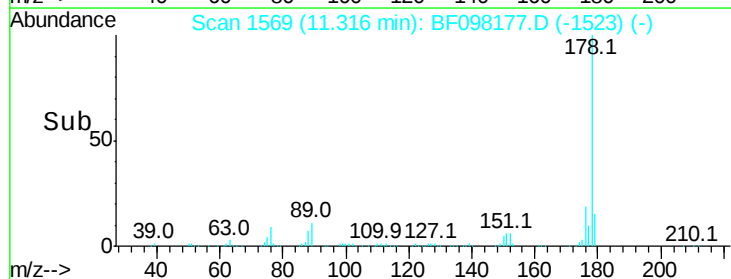
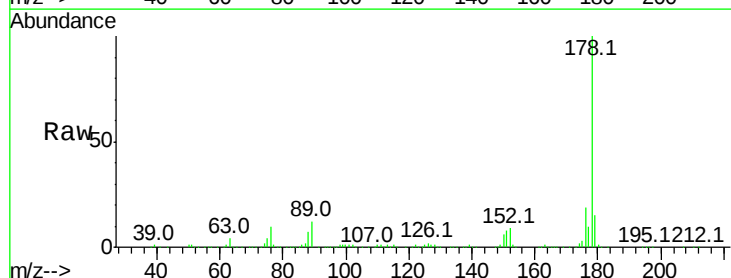
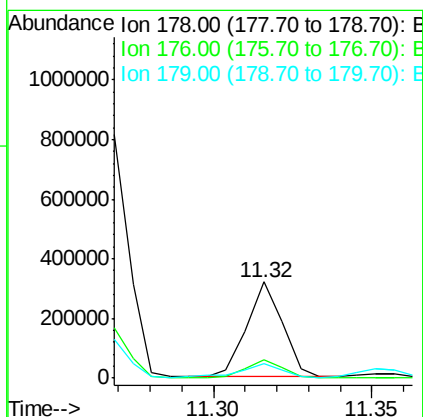
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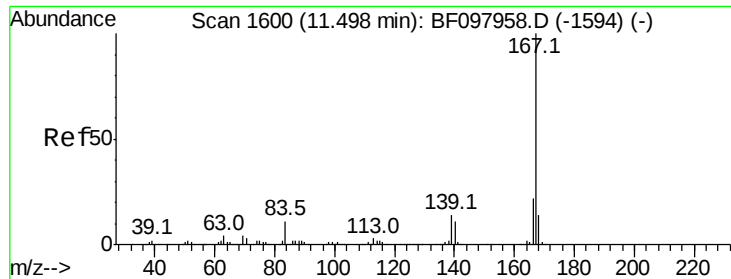
Sohil  
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#71  
Anthracene  
Concen: 16.905 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.03 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.8  | 23.8  |
| 179     | 15.0  | 12.7  | 19.1  |





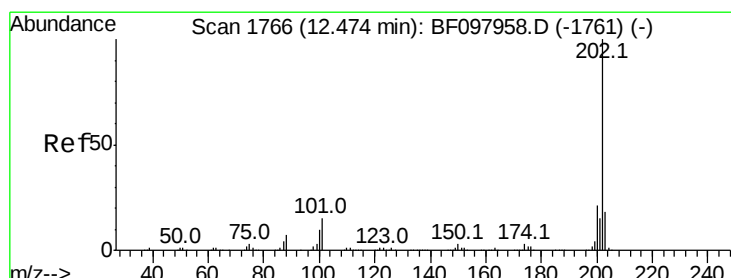
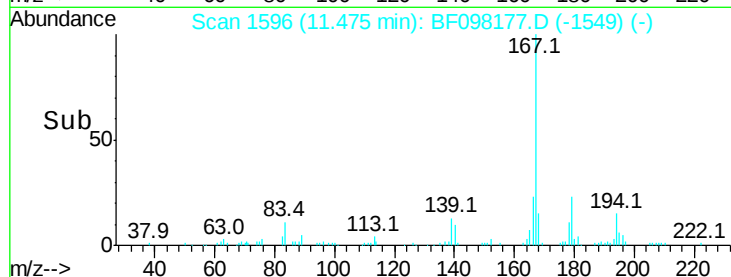
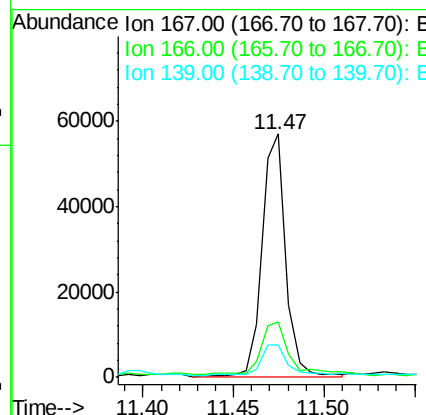
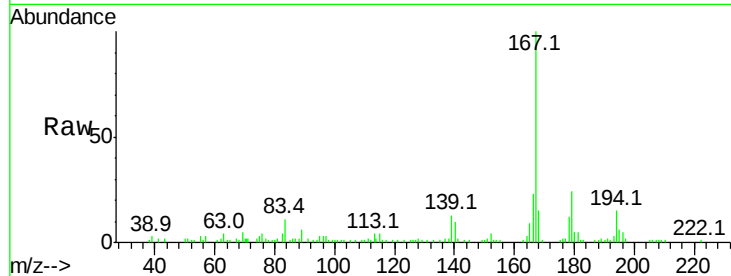
#72  
 Carbazole  
 Concen: 3.706 ng  
 RT: 11.47 min Scan# 1596  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-082917-A

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 52436 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.0  | 18.1  | 27.1  |
| 139       | 13.3  | 11.7  | 17.5  |

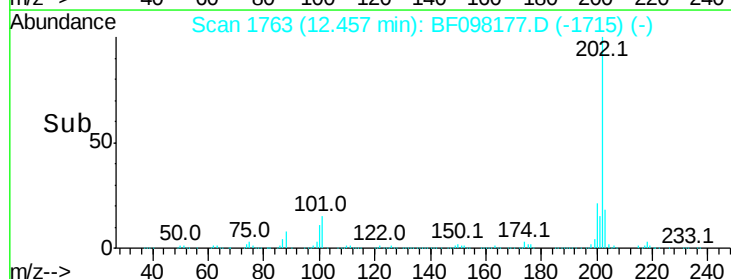
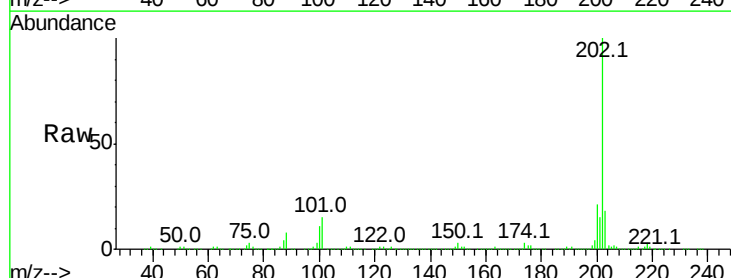
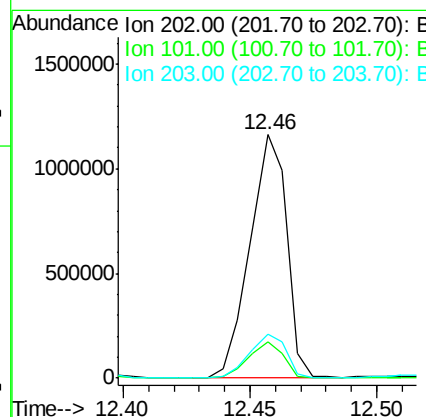
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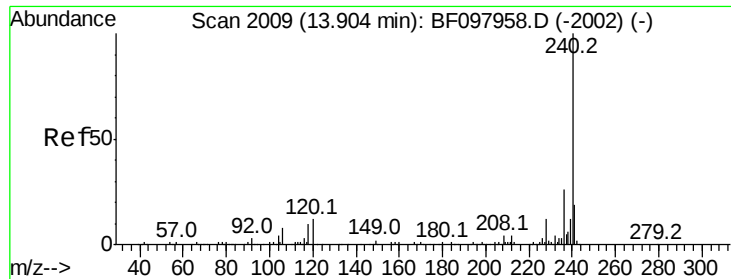
Sohil  
 8/31/2017 7:12:54 PM



#74  
 Fluoranthene  
 Concen: 76.388 ng  
 RT: 12.46 min Scan# 1763  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1171650 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 15.1  | 0.0   | 33.2    |
| 203       | 18.1  | 0.0   | 38.1    |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

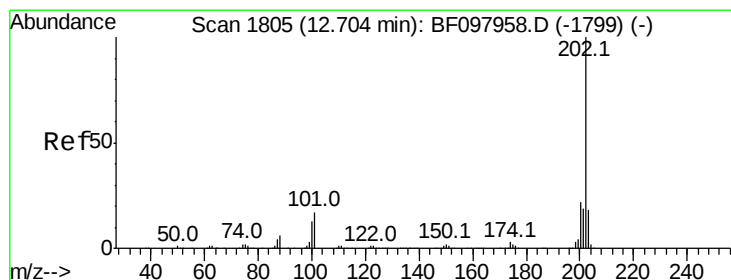
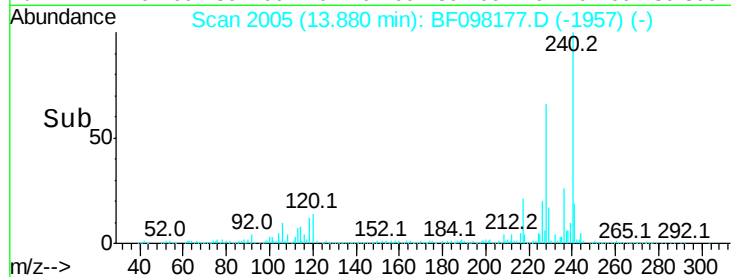
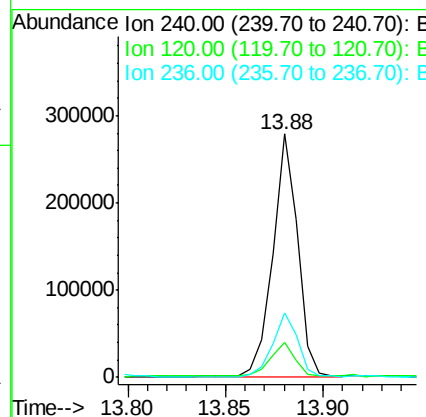
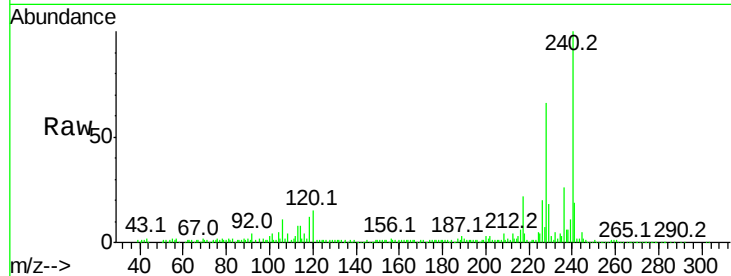
ClientSampleId :

PL-01-082917-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 245086 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.5  | 5.8   | 8.8#   |
| 236       | 26.4  | 20.5  | 30.7   |

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#77

Pyrene

Concen: 62.005 ng

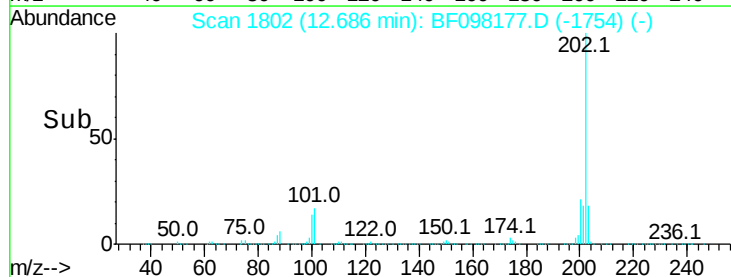
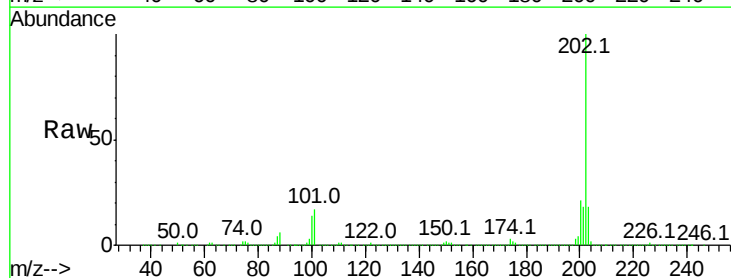
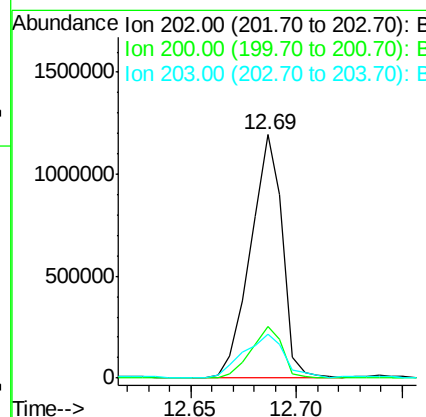
RT: 12.69 min Scan# 1802

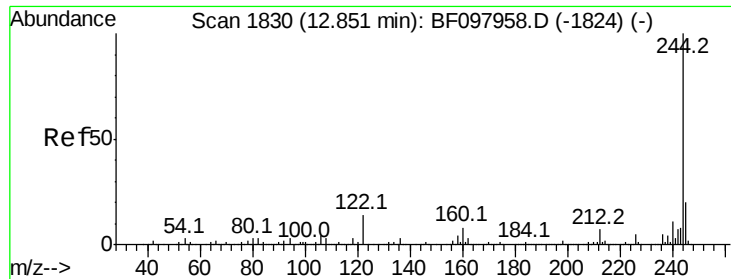
Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1242909 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 21.3  | 17.6  | 26.4    |
| 203       | 18.0  | 14.4  | 21.6    |





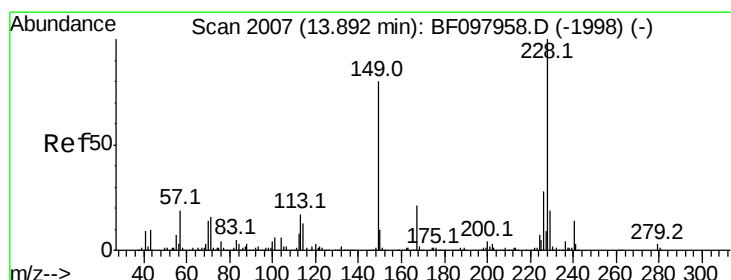
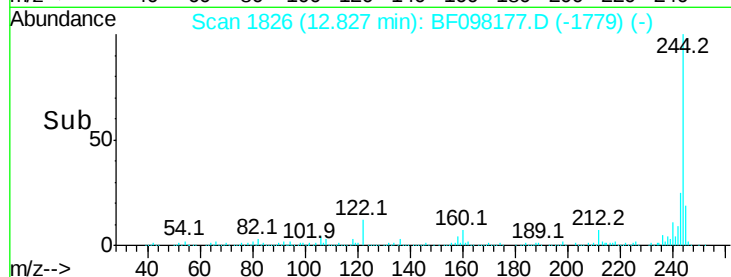
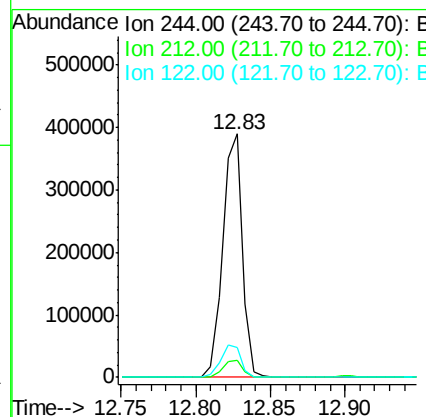
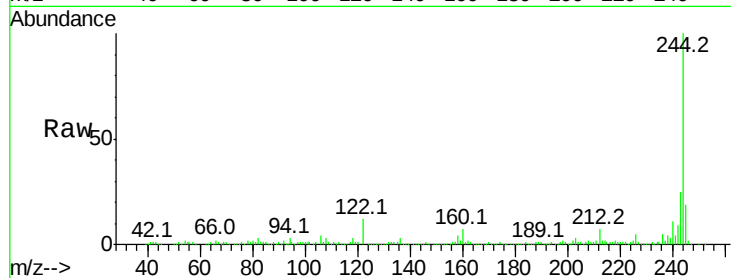
#78  
 Terphenyl-d14  
 Concen: 30.621 ng  
 RT: 12.83 min Scan# 1826  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-082917-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 359883 |       |       |
| 212     | 6.9   | 6.0    | 9.0   |       |
| 122     | 12.1  | 10.3   | 15.5  |       |

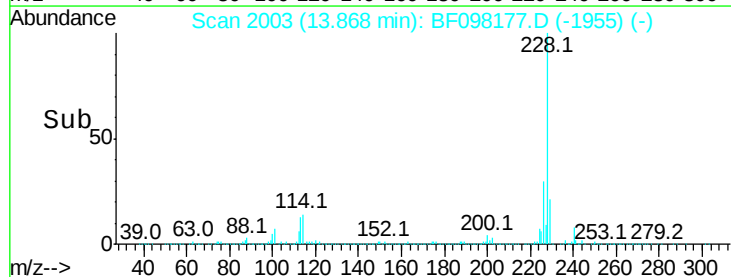
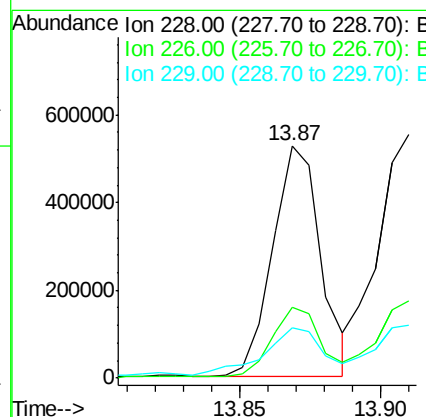
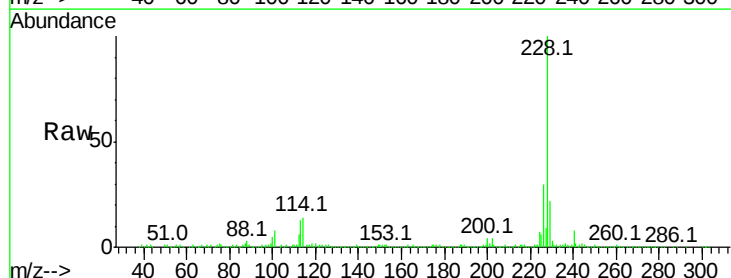
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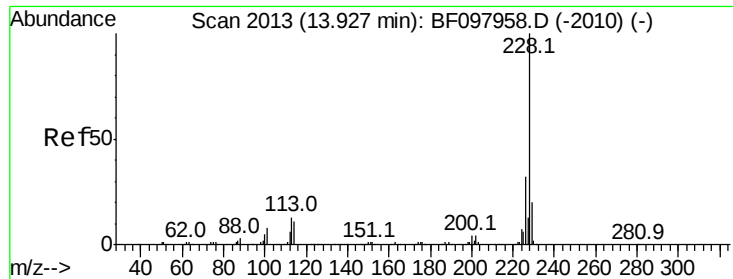
Sohil  
 8/31/2017 7:12:54 PM



#80  
 Benzo(a)anthracene  
 Concen: 42.253 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. -0.02 min  
 Lab File: BF098177.D  
 Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 620649 |       |       |
| 226     | 30.3  | 22.6   | 33.8  |       |
| 229     | 21.6  | 16.3   | 24.5  |       |





#82

Chrysene

Concen: 38.891 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

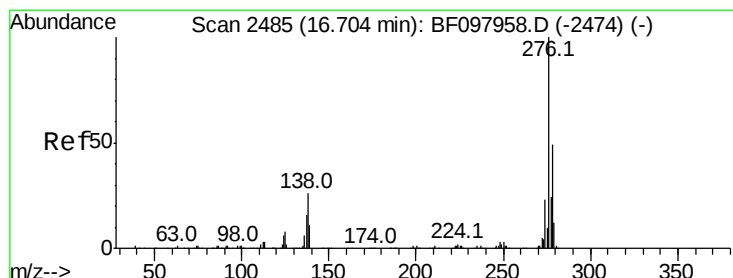
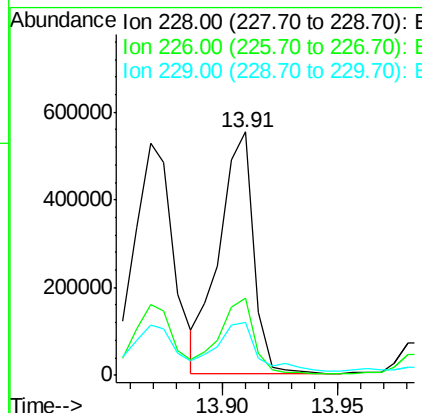
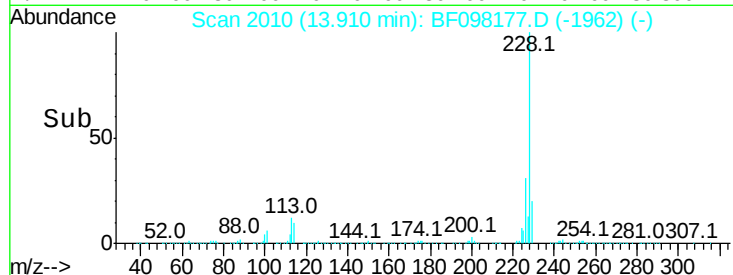
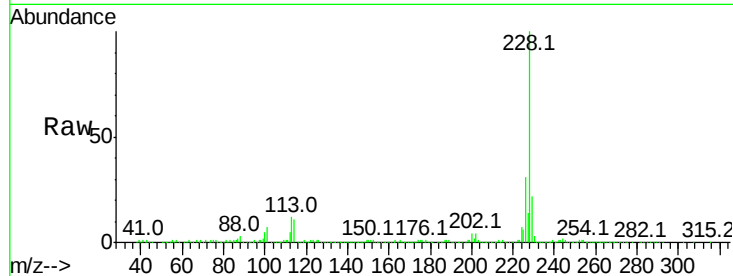
ClientSampleId :

PL-01-082917-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 568285 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.5  | 24.9  | 37.3   |
| 229       | 21.7  | 15.8  | 23.6   |

Manual Integrations  
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#85

Indeno(1,2,3-cd)pyrene

Concen: 19.304 ng

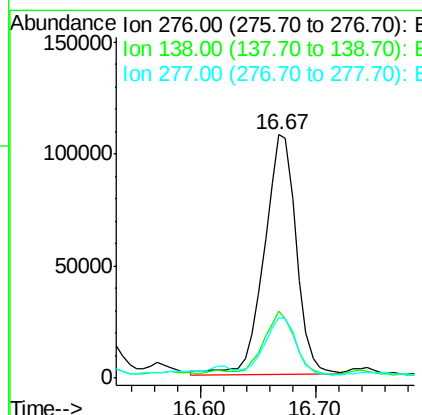
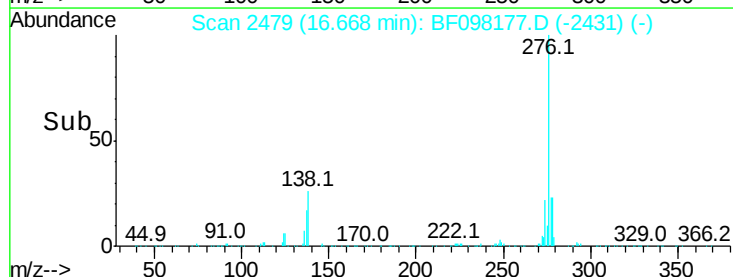
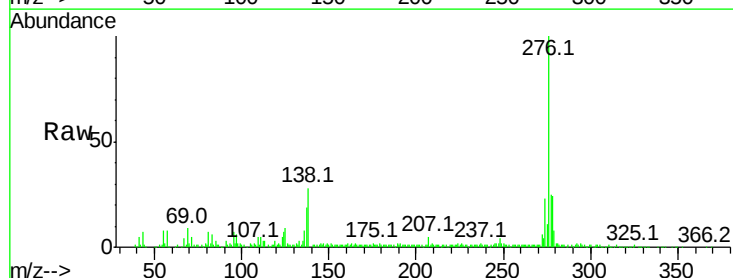
RT: 16.67 min Scan# 2479

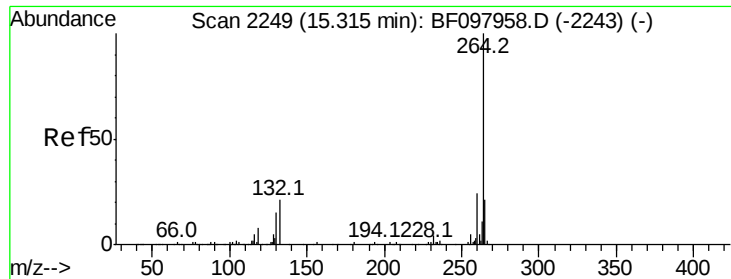
Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 207502 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 25.2  | 27.8  | 41.6#  |
| 277       | 24.2  | 20.2  | 30.4   |





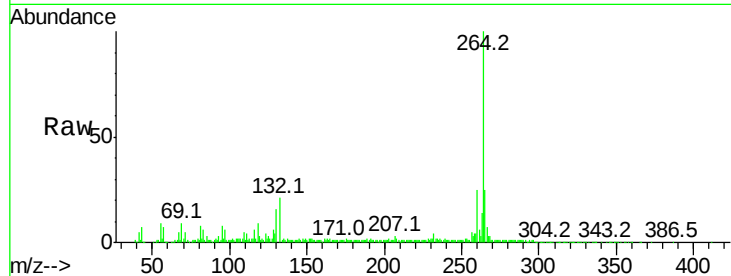
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.30 min Scan# 2246  
Delta R.T. -0.01 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-082917-A

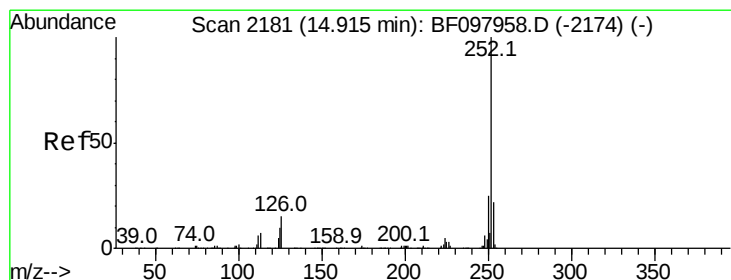
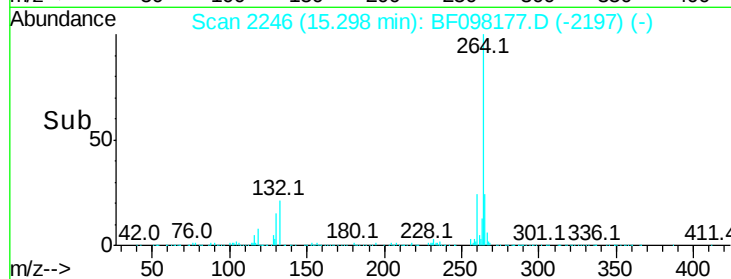
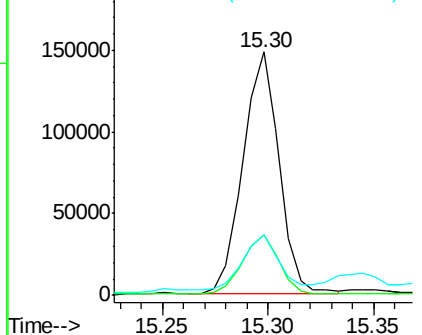
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.5  | 29.3  |
| 265     | 24.7  | 17.2  | 25.8  |

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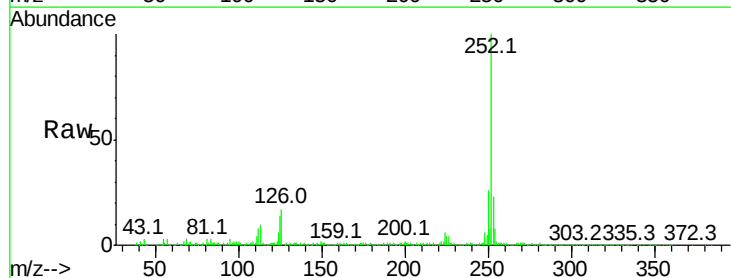


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

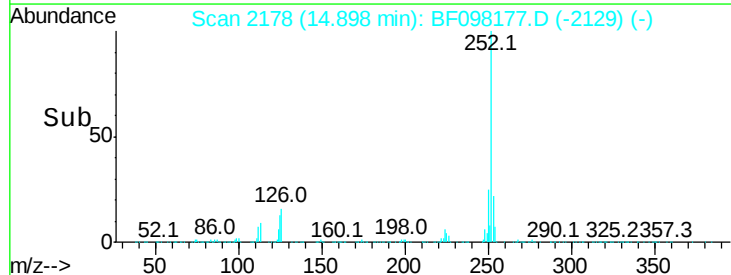
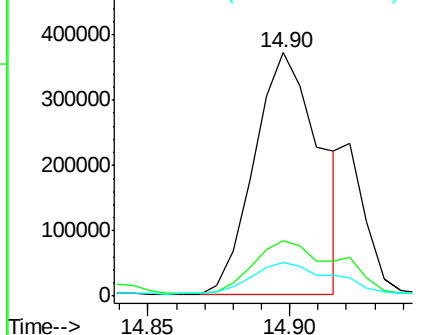


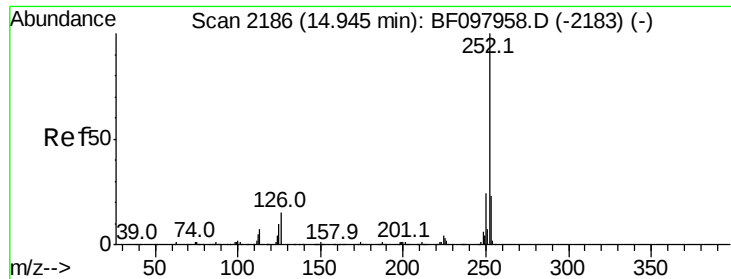
#87  
Benzo(b)fluoranthene  
Concen: 53.972 ng m  
RT: 14.90 min Scan# 2178  
Delta R.T. -0.01 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.1  | 27.1  |
| 125     | 13.9  | 9.8   | 14.8  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 13.047 ng

RT: 14.92 min Scan# 2182

Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

Instrument :

BNA\_F

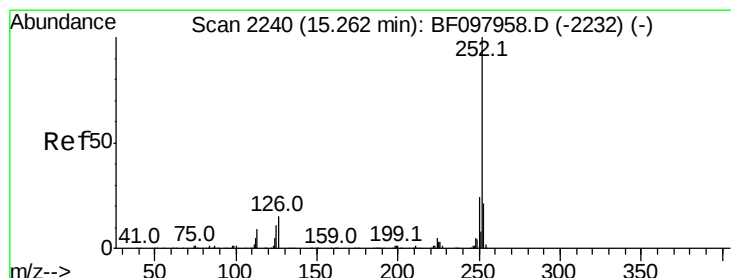
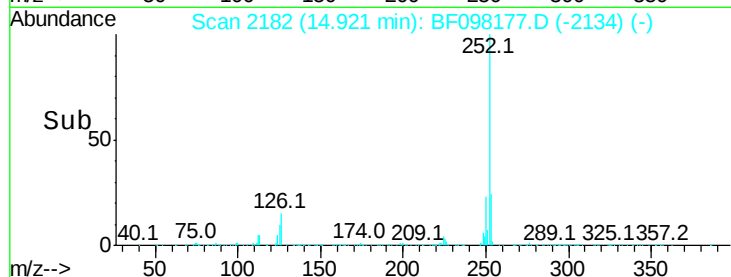
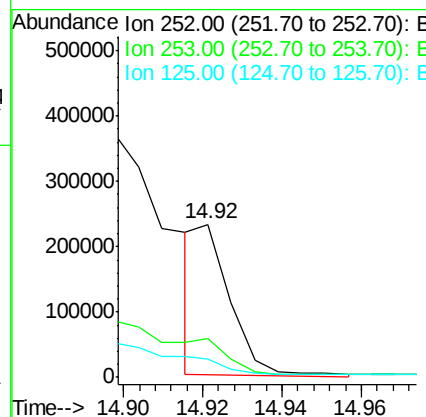
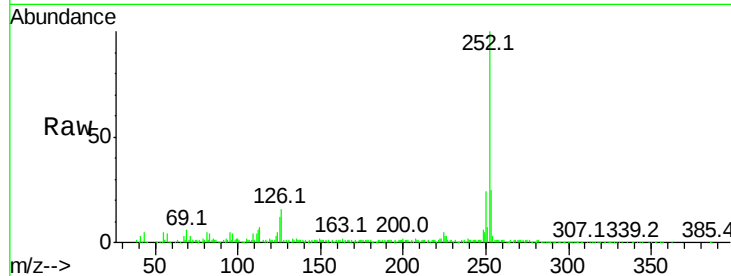
ClientSampleId :

PL-01-082917-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 18.4  | 27.6  |
| 125     | 12.0  | 13.1  | 19.7  |

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#89

Benzo(a)pyrene

Concen: 42.121 ng

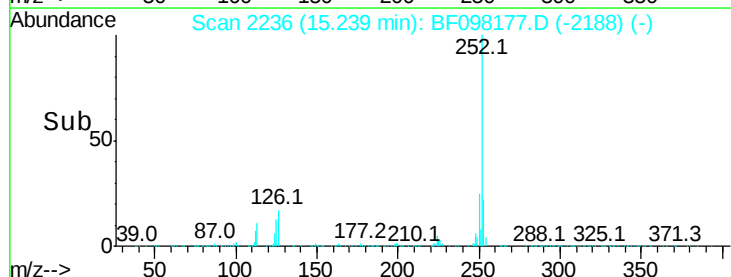
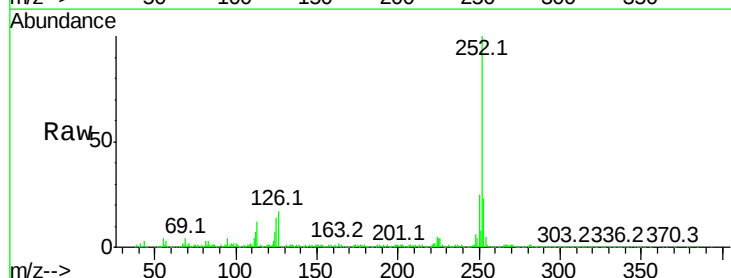
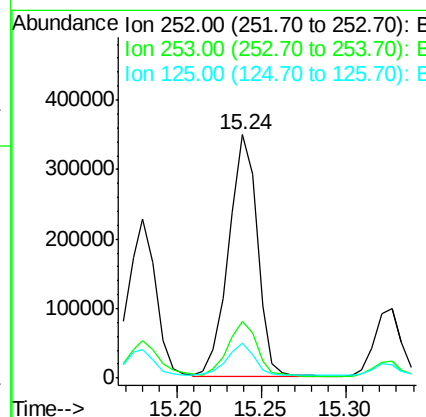
RT: 15.24 min Scan# 2236

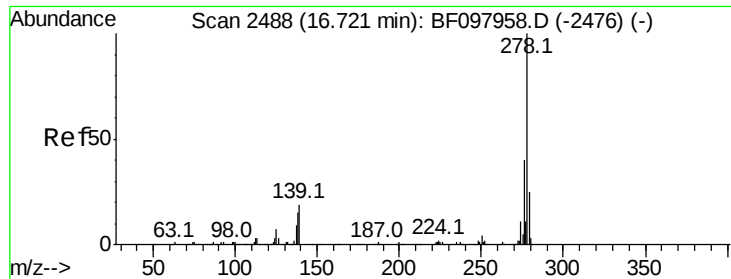
Delta R.T. -0.02 min

Lab File: BF098177.D

Acq: 31 Aug 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.5  | 26.3  |
| 125     | 14.4  | 11.0  | 16.4  |





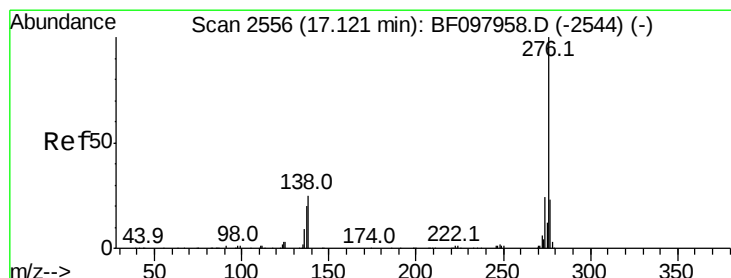
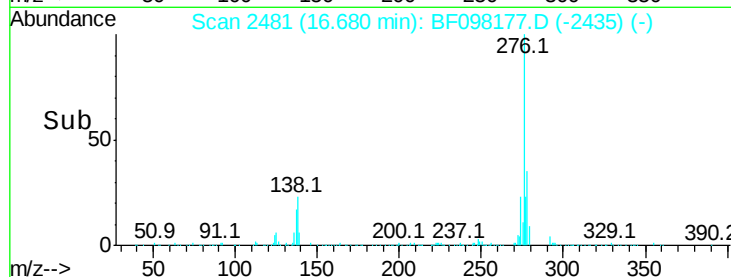
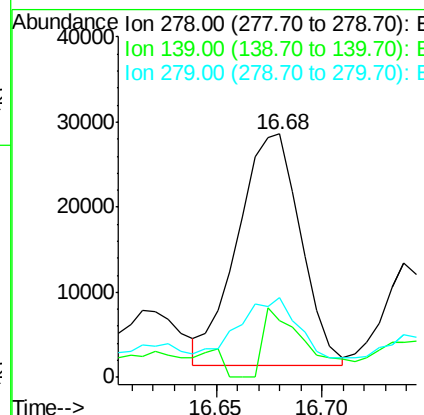
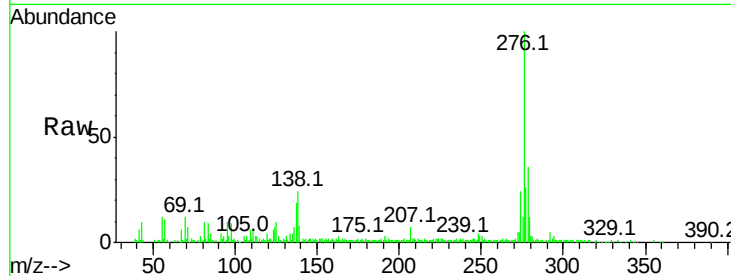
#90  
Dibenzo(a,h)anthracene  
Concen: 7.132 ng  
RT: 16.68 min Scan# 2481  
Delta R.T. -0.03 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-082917-A

|             |       |            |
|-------------|-------|------------|
| Tot Ion:278 | Resp: | 56771      |
| Ion Ratio   | Lower | Upper      |
| 278         | 100   |            |
| 139         | 23.1  | 16.6 24.8  |
| 279         | 32.8  | 19.3 28.9# |

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#91  
Benzo(g,h,i)perylene  
Concen: 23.247 ng  
RT: 17.09 min Scan# 2550  
Delta R.T. -0.02 min  
Lab File: BF098177.D  
Acq: 31 Aug 2017 1:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 193070    |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 277         | 24.2  | 18.6 28.0 |
| 138         | 25.9  | 25.4 38.0 |

