

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\  
 Data File : BF101607.D  
 Acq On : 21 Dec 2017 15:23  
 Operator : SJ/JU  
 Sample : I6681-05 2X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-121917-C

Manual Integrations  
 APPROVED

Sohil  
 12/22/2017 12:41:49 PM

Quant Time: Dec 21 16:00:50 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 20 14:25:04 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 135085   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 489812   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.83  | 164  | 174652   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.32 | 188  | 286299   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 306678   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 246897   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.42  | 112 | 500139 | 55.15 | ng | 0.00 |
| 7) Phenol-d6             | 6.44  | 99  | 589564 | 52.24 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.36  | 82  | 356830 | 40.55 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.63 | 330 | 76847  | 45.66 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.15  | 172 | 508631 | 45.18 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.90 | 244 | 412346 | 32.41 | ng | 0.00 |

## Target Compounds

|                            |       |     |         |        |    | Qvalue |
|----------------------------|-------|-----|---------|--------|----|--------|
| 48) Acenaphthylene         | 9.70  | 152 | 59220   | 3.164  | ng | 98     |
| 49) Dimethylphthalate      | 9.55  | 163 | 48614   | 3.460  | ng | # 99   |
| 51) Acenaphthene           | 9.86  | 154 | 35317   | 3.140  | ng | 94     |
| 54) Dibenzofuran           | 10.04 | 168 | 39211   | 2.744  | ng | # 97   |
| 57) Fluorene               | 10.38 | 166 | 65678   | 5.432  | ng | 100    |
| 70) Phenanthrene           | 11.34 | 178 | 423462  | 26.597 | ng | 99     |
| 71) Anthracene             | 11.40 | 178 | 161544  | 9.933  | ng | 99     |
| 72) Carbazole              | 11.56 | 167 | 34352   | 2.256  | ng | 98     |
| 74) Fluoranthene           | 12.54 | 202 | 724148  | 43.331 | ng | 97     |
| 77) Pyrene                 | 12.77 | 202 | 702348  | 30.515 | ng | 99     |
| 80) Benzo(a)anthracene     | 13.96 | 228 | 439958  | 21.726 | ng | 98     |
| 82) Chrysene               | 14.00 | 228 | 373488  | 19.534 | ng | 99     |
| 85) Indeno(1,2,3-cd)pyrene | 16.92 | 276 | 142842  | 8.389  | ng | # 91   |
| 87) Benzo(b)fluoranthene   | 15.02 | 252 | 435777m | 28.957 | ng |        |
| 88) Benzo(k)fluoranthene   | 15.04 | 252 | 134069m | 9.163  | ng |        |
| 89) Benzo(a)pyrene         | 15.38 | 252 | 292896  | 21.113 | ng | 99     |
| 90) Dibenzo(a,h)anthracene | 16.92 | 278 | 38599   | 3.241  | ng | # 82   |
| 91) Benzo(g,h,i)perylene   | 17.37 | 276 | 142475  | 12.080 | ng | 95     |

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

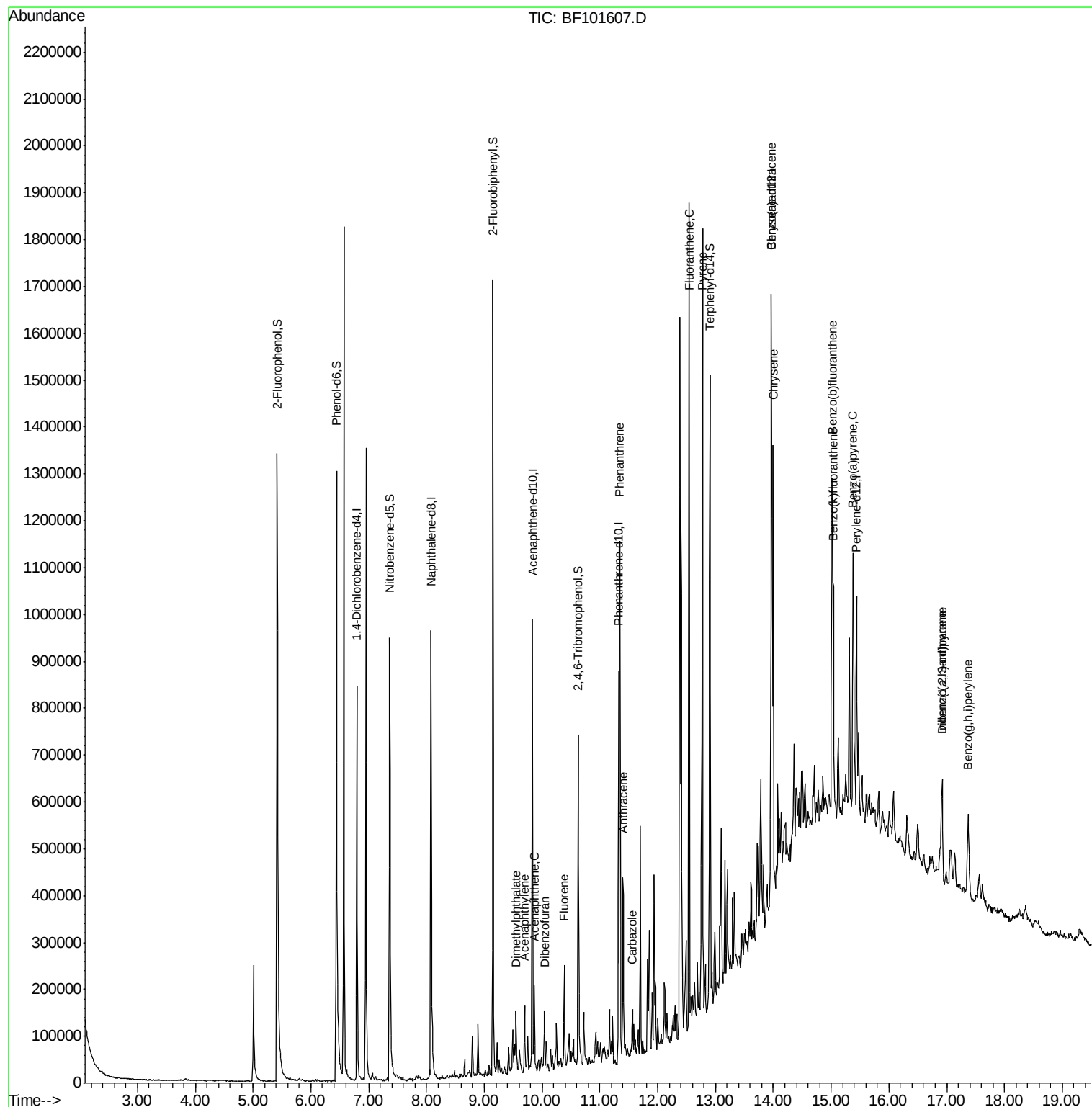
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\  
Data File : BF101607.D  
Acq On : 21 Dec 2017 15:23  
Operator : SJ/JU  
Sample : I6681-05 2X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

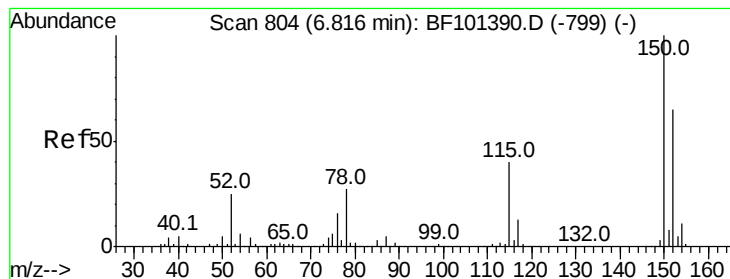
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

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Quant Time: Dec 21 16:00:50 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 20 14:25:04 2017  
Response via : Initial Calibration





#1

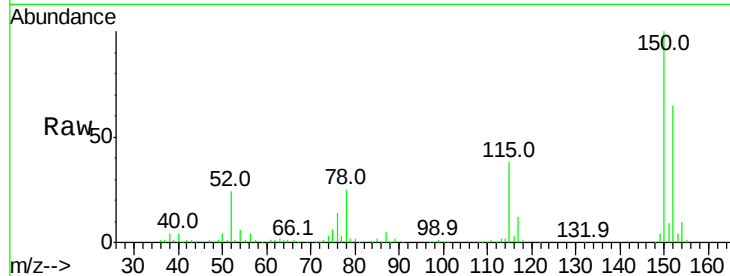
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. 0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

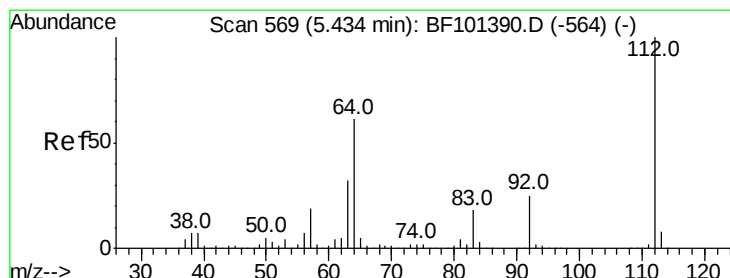
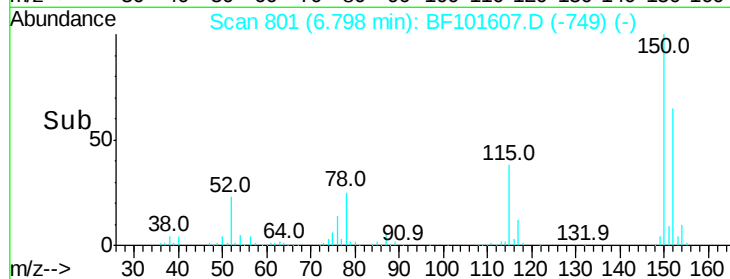
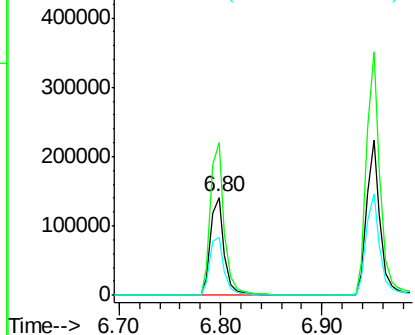
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 124.6 | 186.8 |
| 115     | 59.1  | 50.1  | 75.1  |

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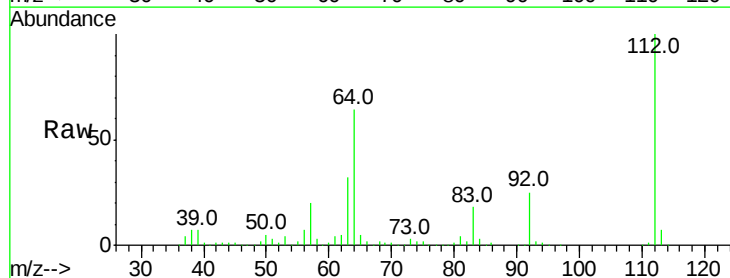
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



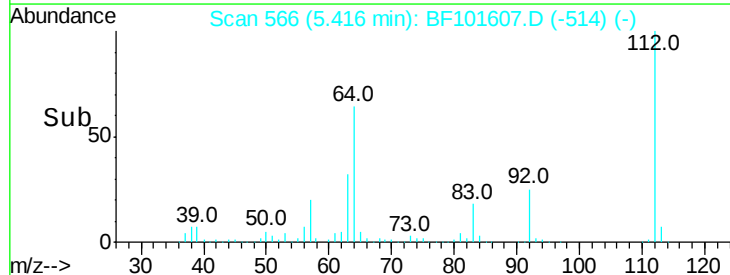
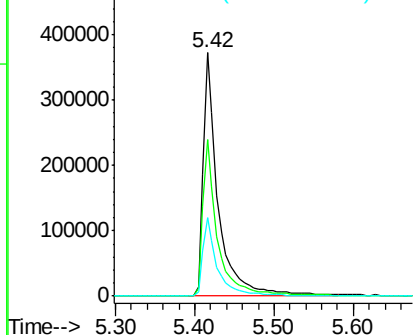
#5

2-Fluorophenol  
Concen: 55.150 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.2  | 47.9  | 71.9  |
| 63      | 32.3  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 52.237 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

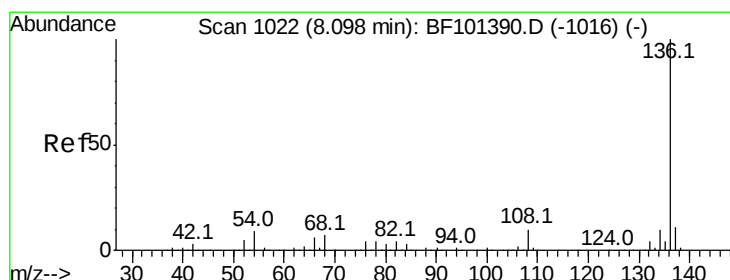
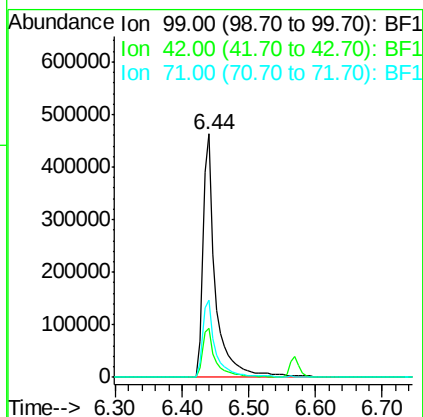
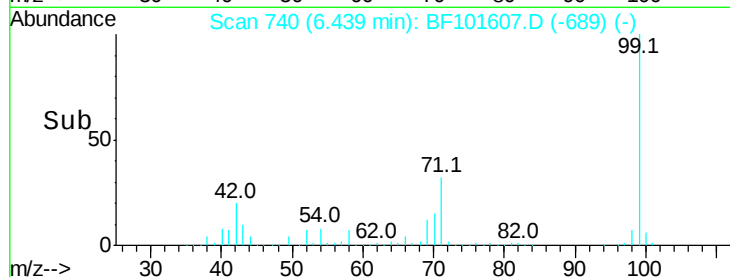
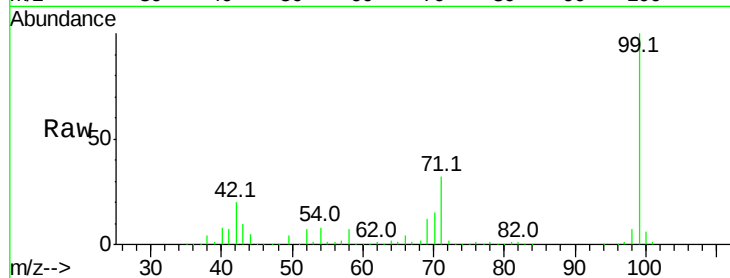
ClientSampleId :

PL-01-121917-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 589564 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 20.0  | 14.5  | 21.7   |
| 71        | 31.9  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

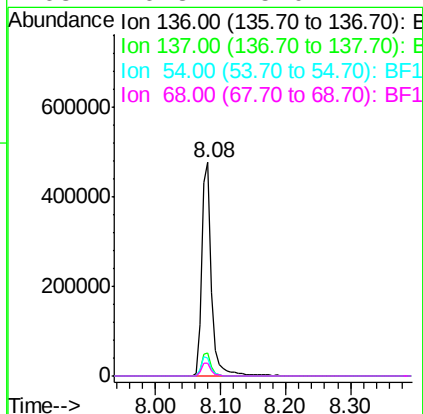
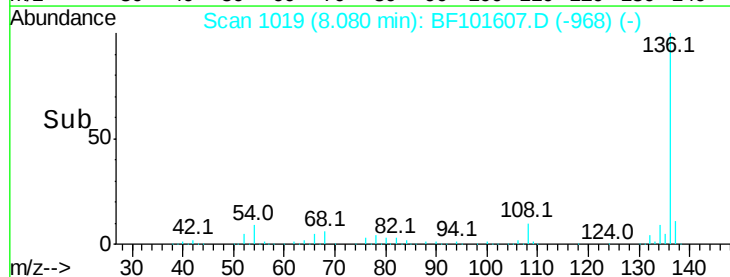
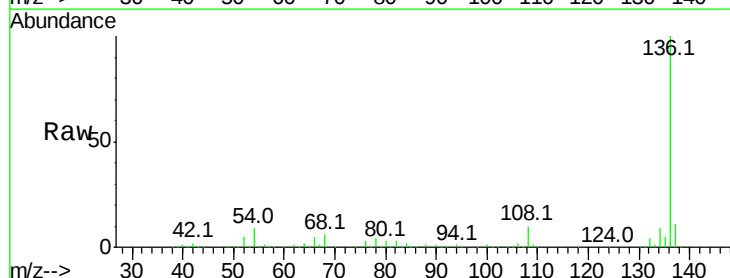
RT: 8.08 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 489812 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.6  | 8.9   | 13.3   |
| 54        | 8.7   | 6.6   | 9.8    |
| 68        | 6.3   | 5.0   | 7.4    |





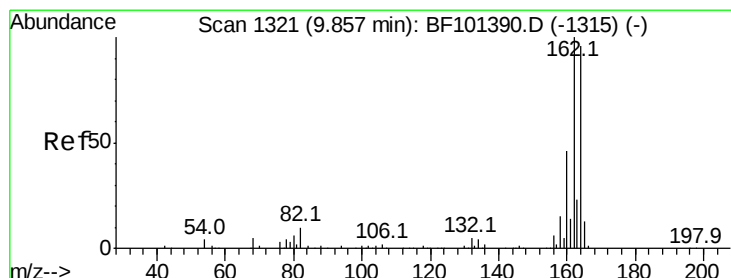
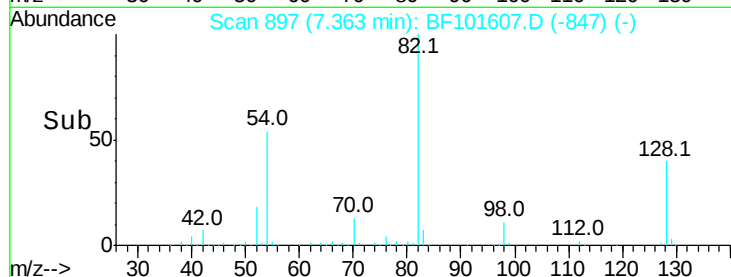
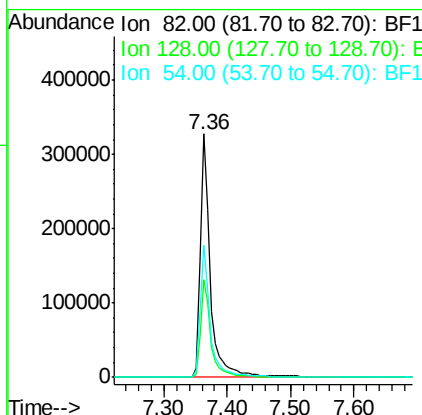
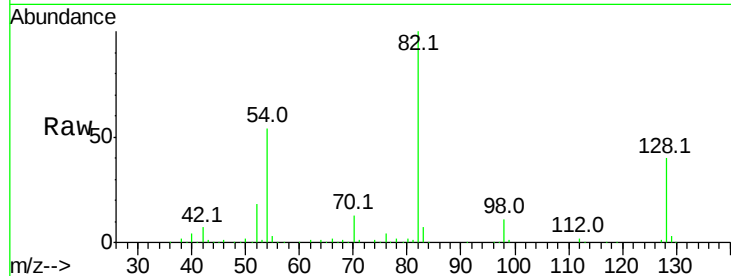
#23  
Nitrobenzene-d5  
Concen: 40.553 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 39.9  | 36.1 | 54.1  |       |
| 54      | 54.2  | 41.4 | 62.2  |       |

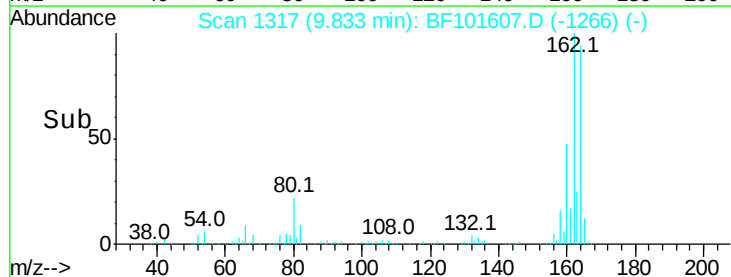
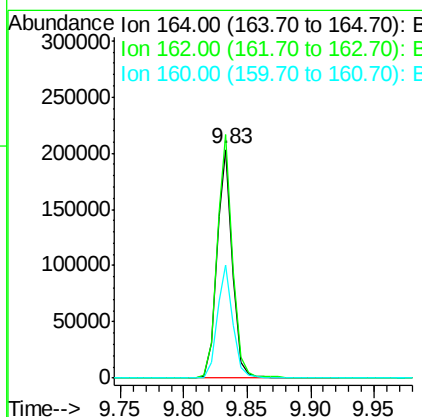
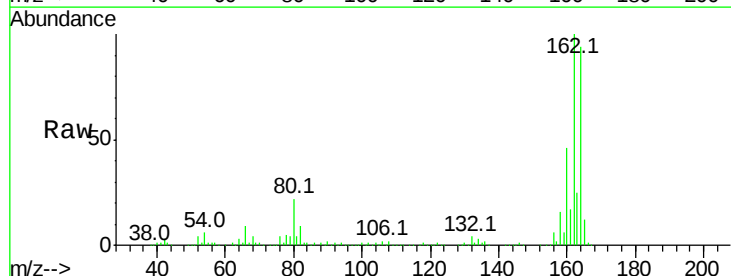
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.00 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 106.5 | 86.1 | 129.1 |       |
| 160     | 49.5  | 38.3 | 57.5  |       |





#41

2,4,6-Tribromophenol

Concen: 45.663 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

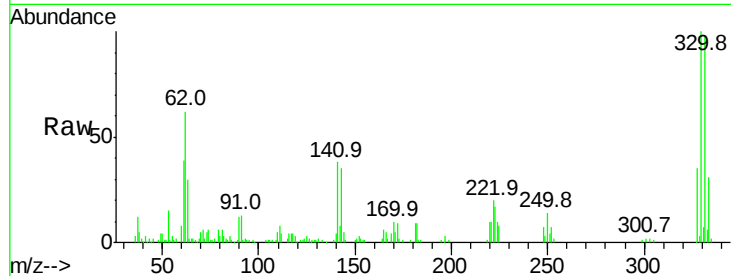
ClientSampleId :

PL-01-121917-C

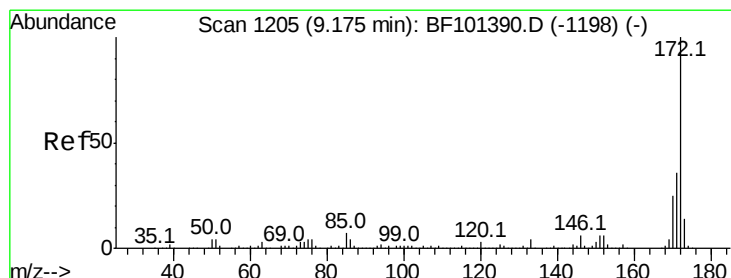
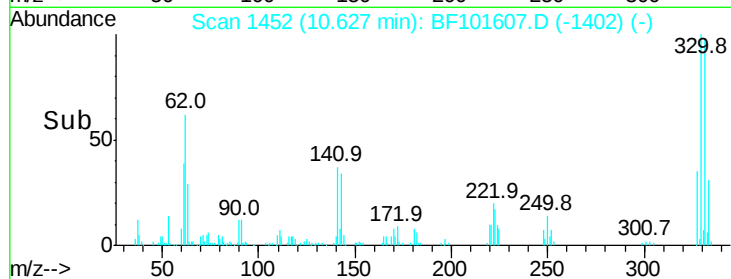
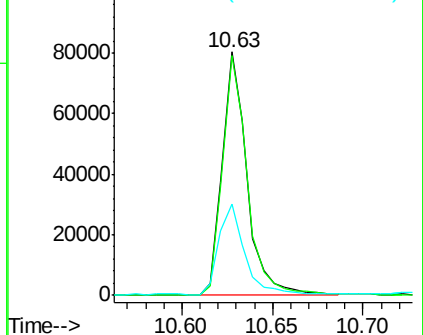
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 76847 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 99.1  | 77.0  | 115.6 |
| 141       | 38.2  | 29.9  | 44.9  |

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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: 45.176 ng

RT: 9.15 min Scan# 1201

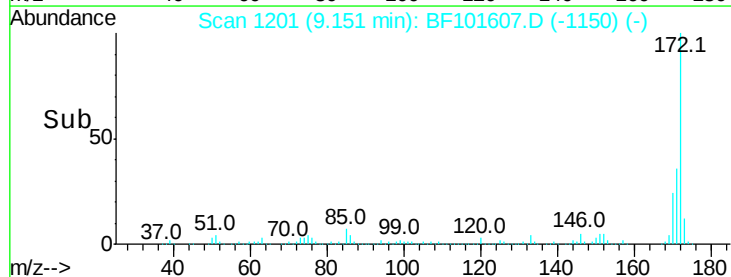
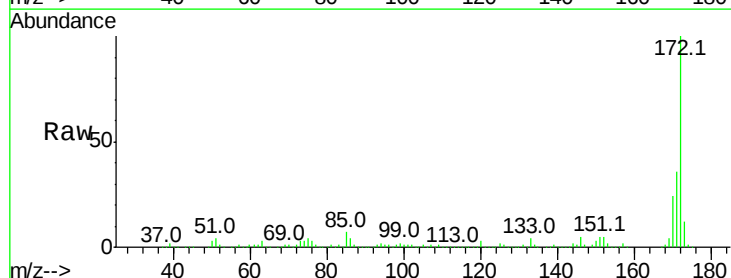
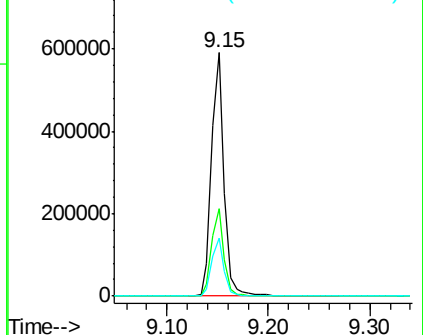
Delta R.T. -0.00 min

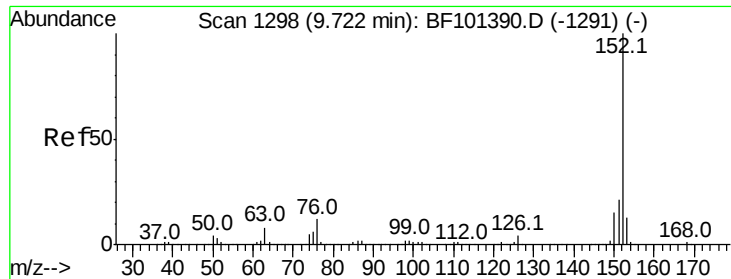
Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 508631 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.7  | 29.7  | 44.5   |
| 170       | 23.7  | 19.6  | 29.4   |

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: 3.164 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

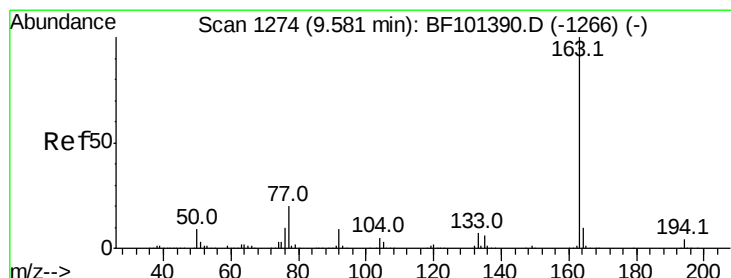
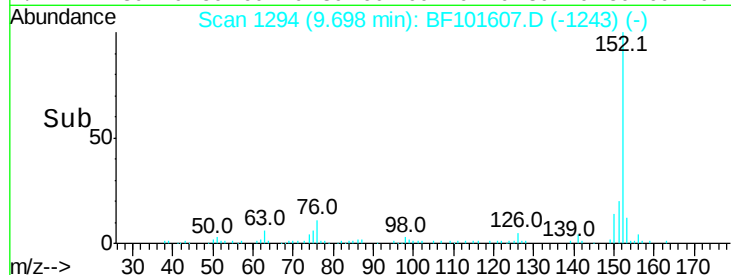
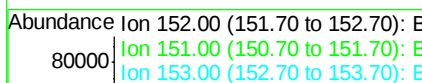
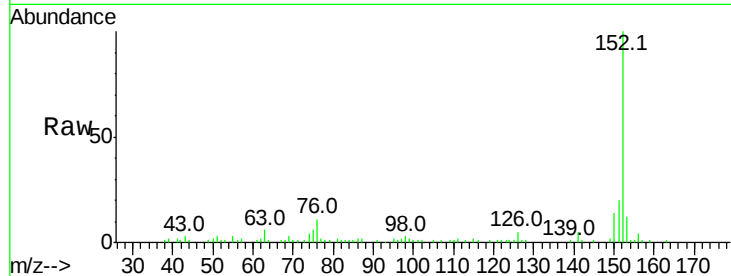
ClientSampleId :

PL-01-121917-C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 59220 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.6  | 16.3  | 24.5  |
| 153       | 12.2  | 10.7  | 16.1  |

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#49

Dimethylphthalate

Concen: 3.460 ng

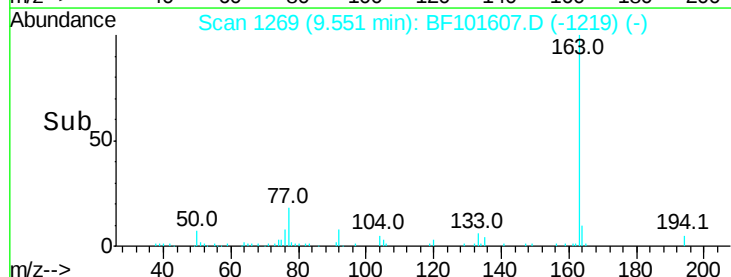
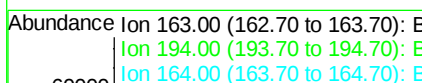
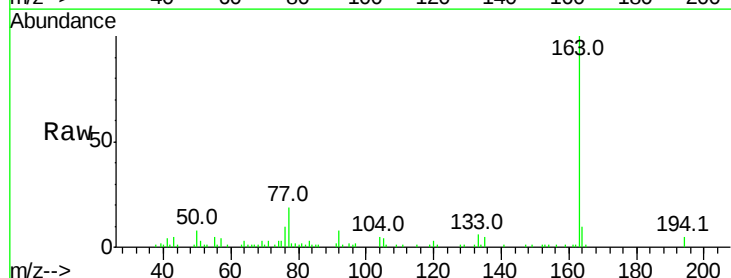
RT: 9.55 min Scan# 1269

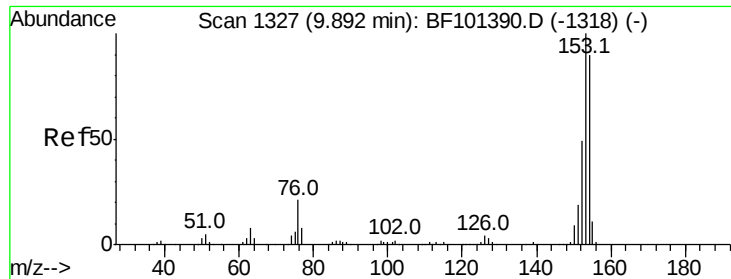
Delta R.T. -0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 48614 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.6   | 2.7   | 4.1#  |
| 164       | 10.0  | 8.2   | 12.2  |





#51

Acenaphthene

Concen: 3.140 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

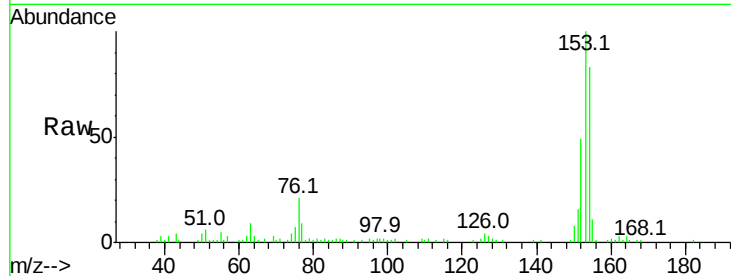
ClientSampleId :

PL-01-121917-C

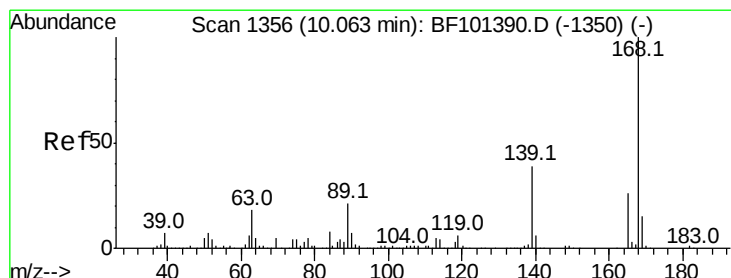
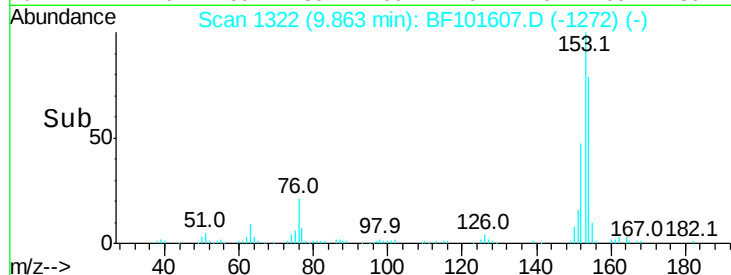
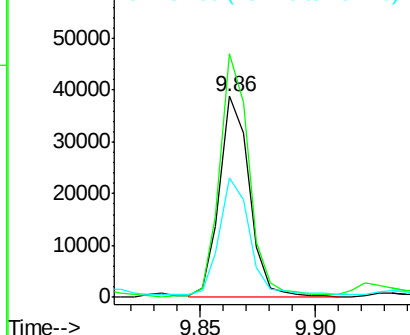
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 35317 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 121.0 | 91.2  | 136.8 |
| 152       | 59.4  | 43.8  | 65.8  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.744 ng

RT: 10.04 min Scan# 1352

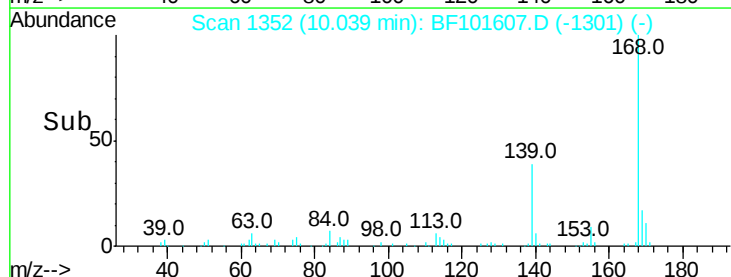
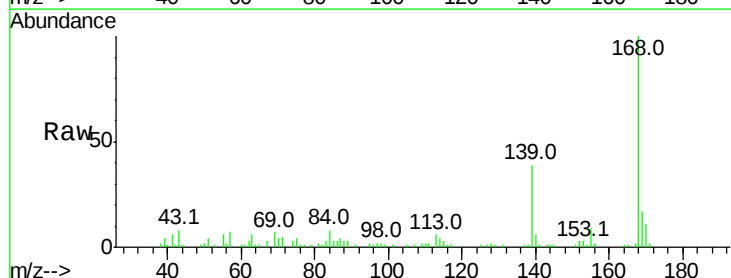
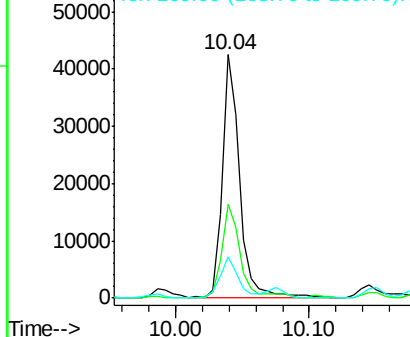
Delta R.T. -0.00 min

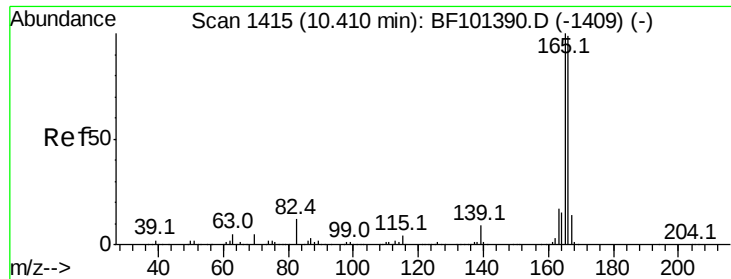
Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 39211 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 38.7  | 30.1  | 45.1  |
| 169       | 16.8  | 10.9  | 16.3# |

Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





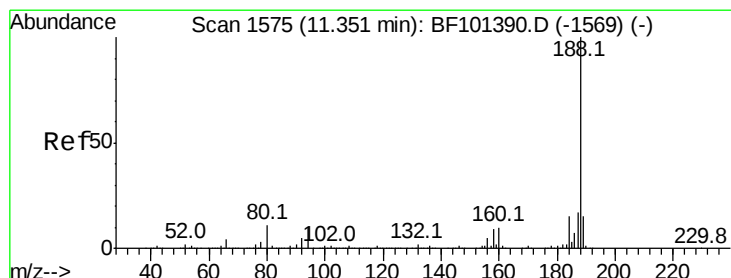
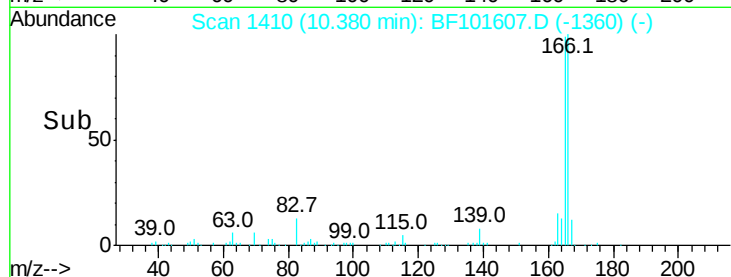
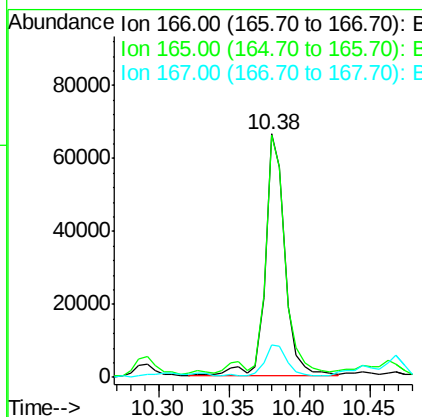
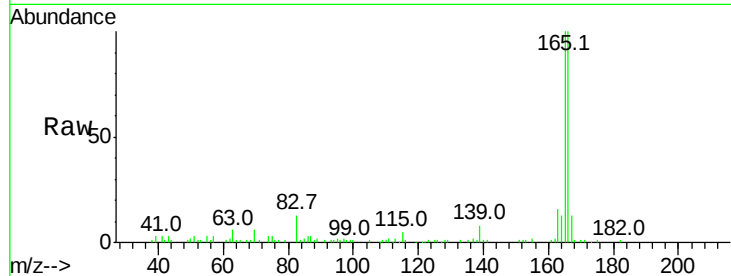
#57  
**Fluorene**  
 Concen: 5.432 ng  
 RT: 10.38 min Scan# 1410  
 Delta R.T. -0.01 min  
 Lab File: BF101607.D  
 Acq: 21 Dec 2017 15:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-121917-C

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 65678 |       |       |
| 165     | 99.7  | 79.8  | 119.8 |       |
| 167     | 13.2  | 10.6  | 16.0  |       |

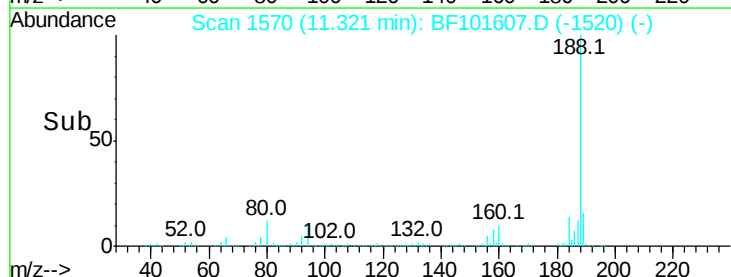
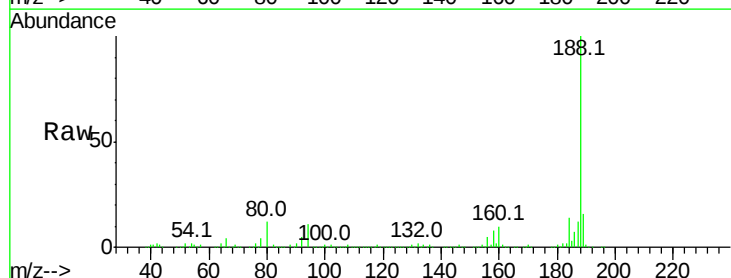
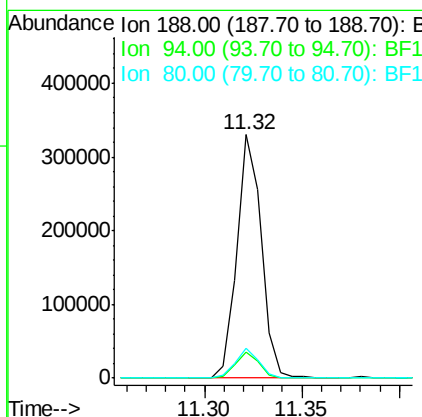
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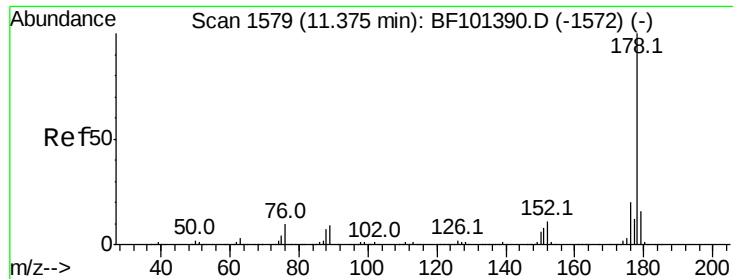
Sohil  
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#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BF101607.D  
 Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 286299 |       |       |
| 94      | 10.9  | 8.5    | 12.7  |       |
| 80      | 12.1  | 9.2    | 13.8  |       |





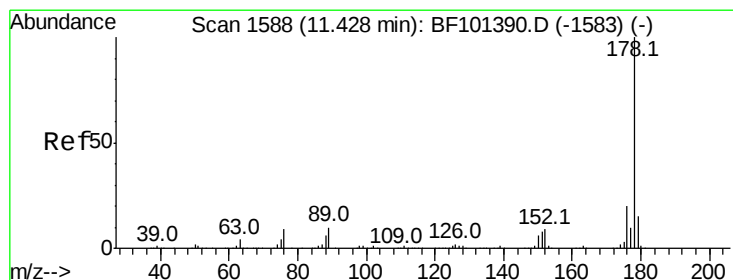
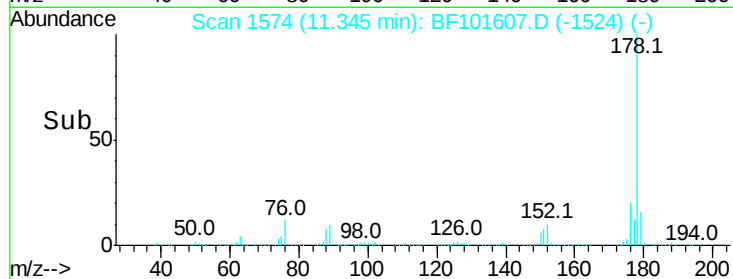
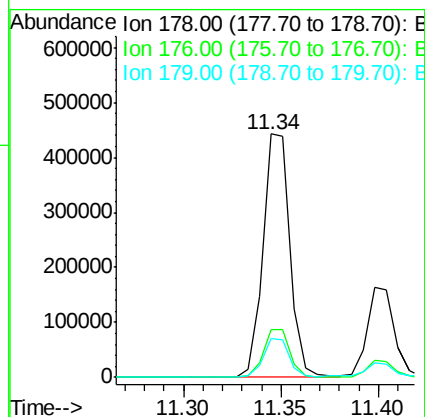
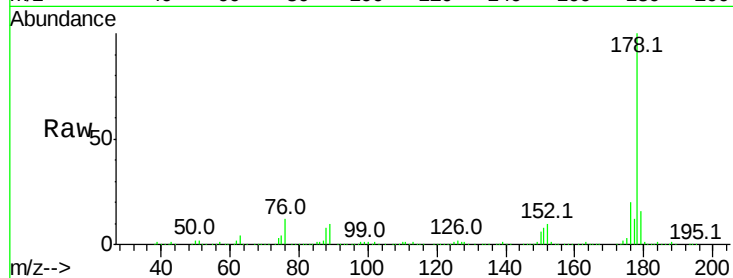
#70  
Phenanthrene  
Concen: 26.597 ng  
RT: 11.34 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.8  | 23.8  |
| 179     | 15.7  | 13.0  | 19.6  |

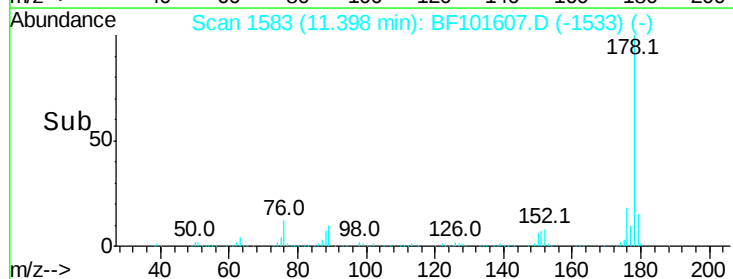
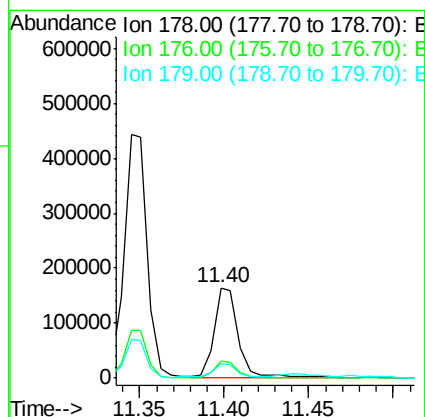
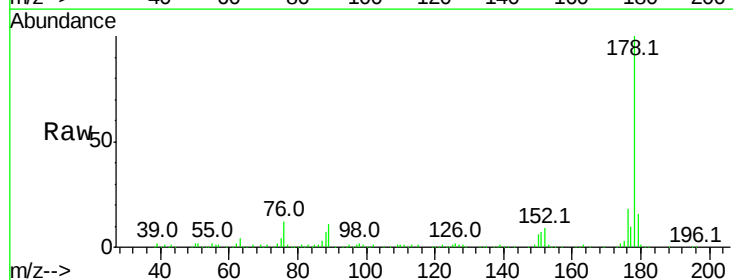
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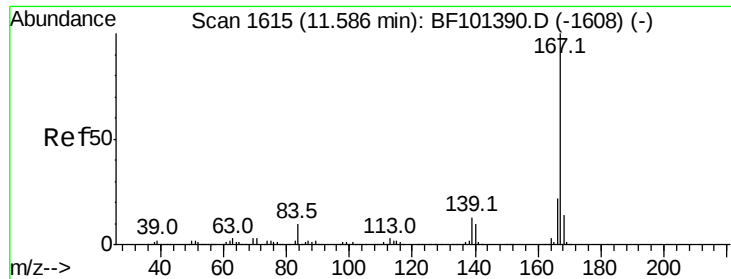
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#71  
Anthracene  
Concen: 9.933 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 15.4  | 23.2  |
| 179     | 15.7  | 12.6  | 19.0  |





#72

Carbazole

Concen: 2.256 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

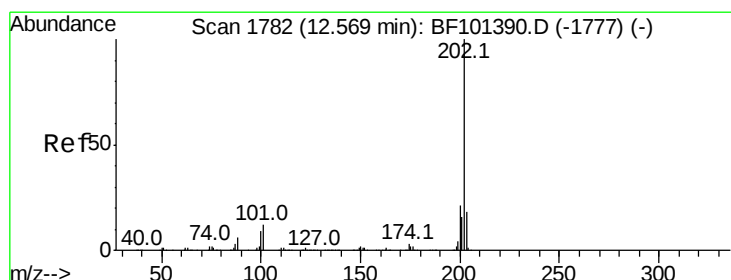
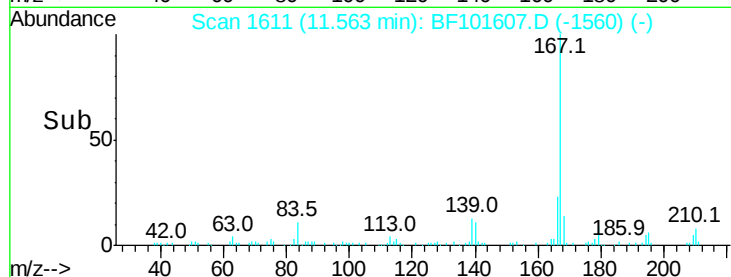
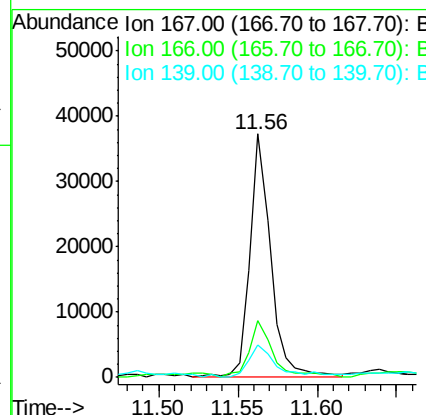
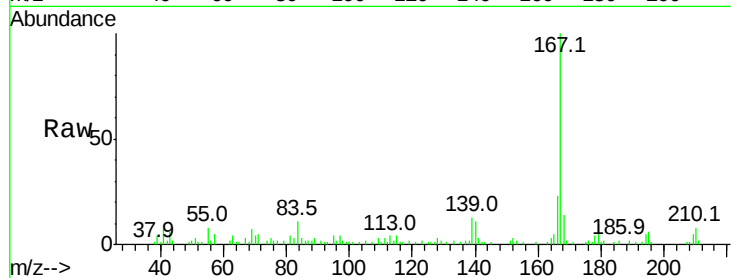
ClientSampleId :

PL-01-121917-C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 34352 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.4  | 17.6  | 26.4  |
| 139       | 13.2  | 10.9  | 16.3  |

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#74

Fluoranthene

Concen: 43.331 ng

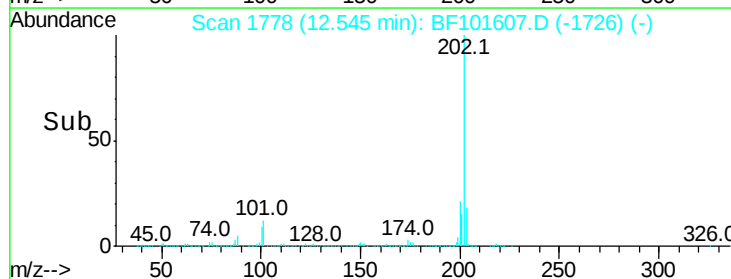
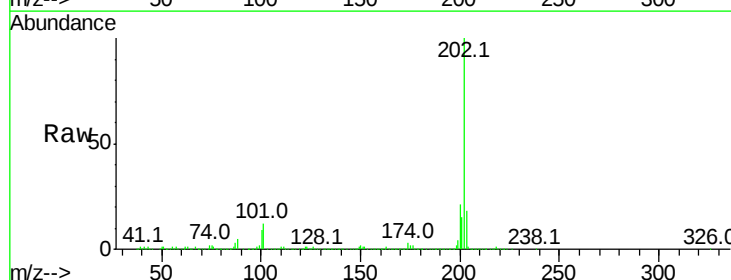
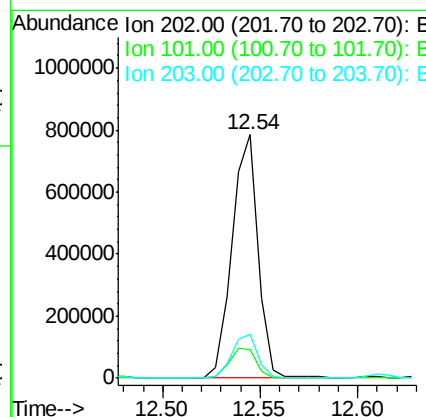
RT: 12.54 min Scan# 1778

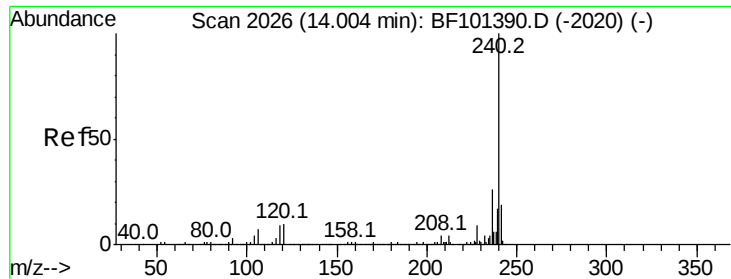
Delta R.T. 0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 724148 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 0.0   | 34.1   |
| 203       | 17.9  | 0.0   | 38.1   |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

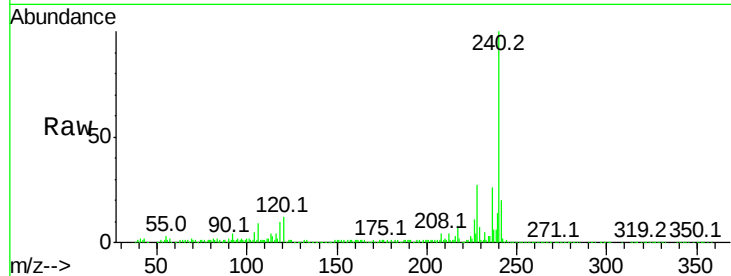
ClientSampleId :

PL-01-121917-C

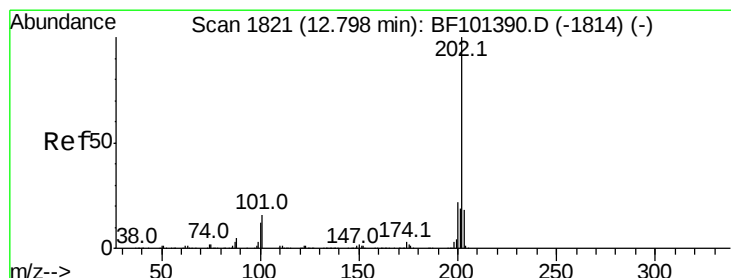
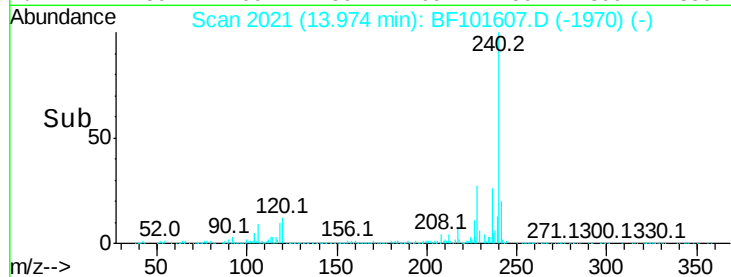
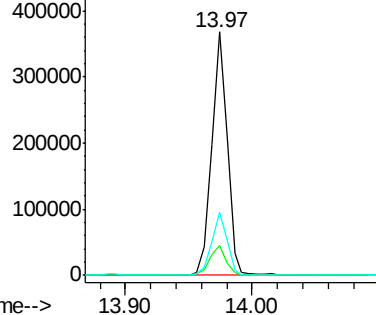
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 306678 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.4  | 9.5   | 14.3   |
| 236       | 25.9  | 20.7  | 31.1   |

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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 30.515 ng

RT: 12.77 min Scan# 1817

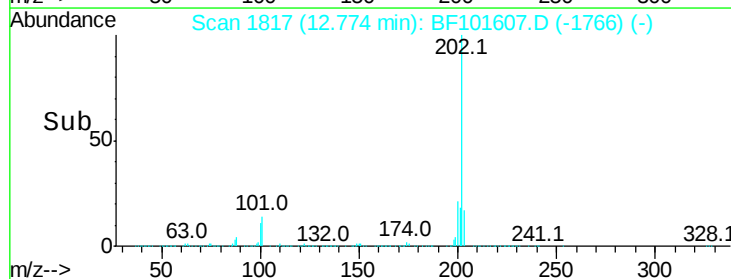
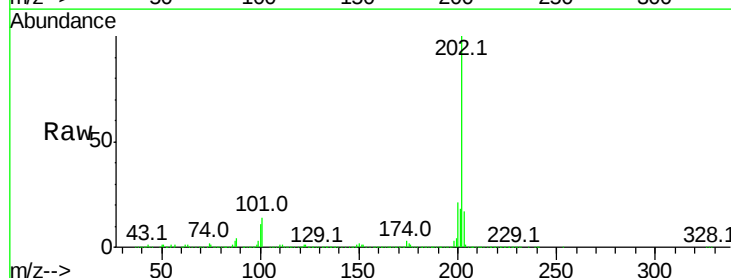
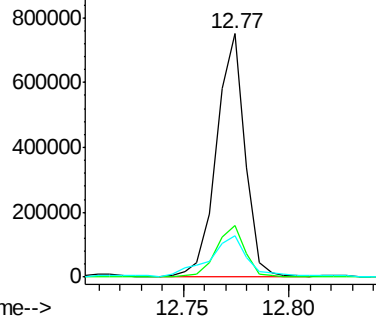
Delta R.T. -0.00 min

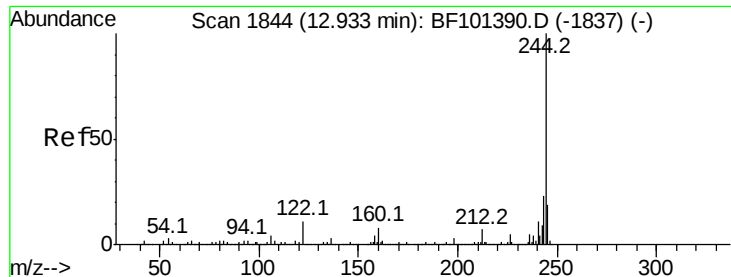
Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 702348 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.2  | 17.4  | 26.2   |
| 203       | 17.2  | 14.3  | 21.5   |

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: 32.414 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

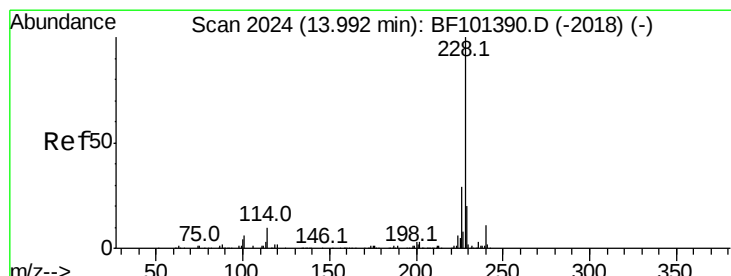
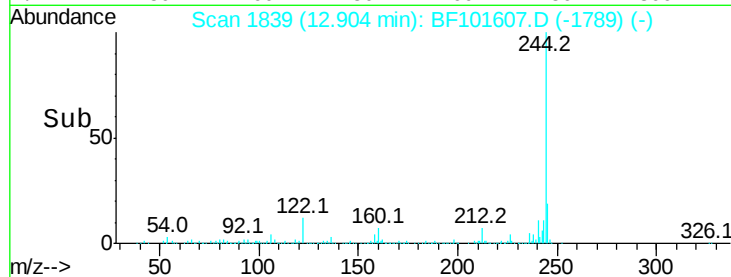
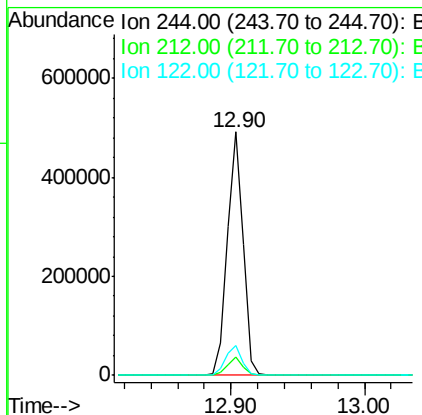
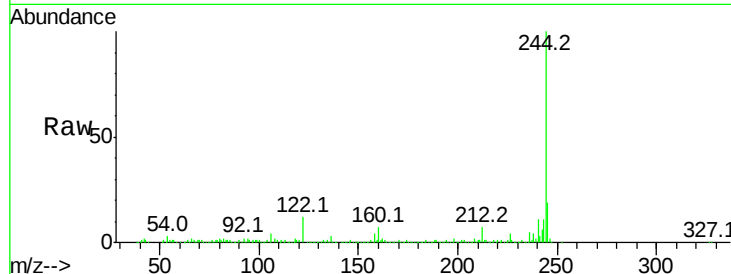
ClientSampleId :

PL-01-121917-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 412346 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.4   | 5.4   | 8.0    |
| 122       | 12.2  | 11.0  | 16.4   |

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#80

Benzo(a)anthracene

Concen: 21.726 ng

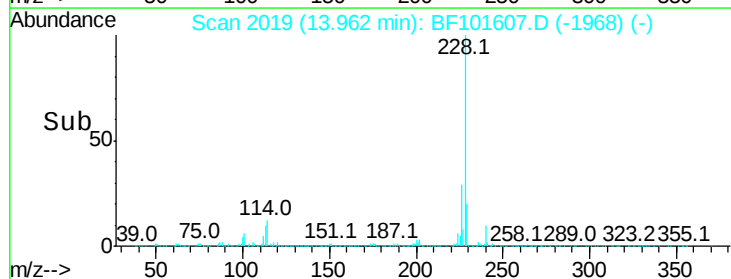
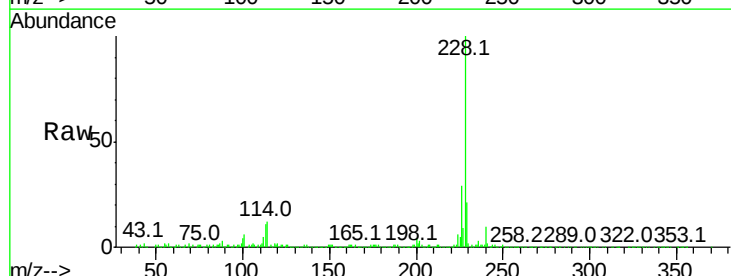
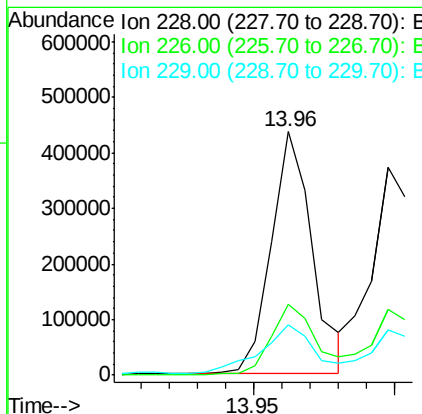
RT: 13.96 min Scan# 2019

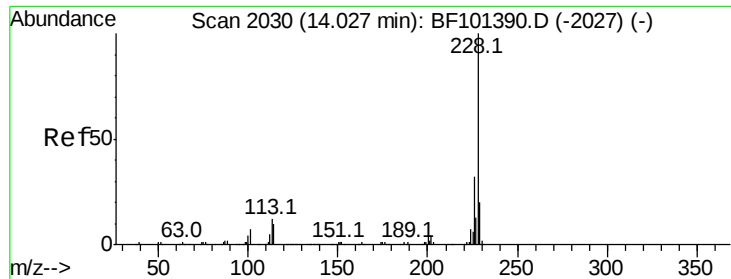
Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 439958 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 22.6  | 33.8   |
| 229       | 20.8  | 15.8  | 23.6   |





#82

Chrysene

Concen: 19.534 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

Instrument :

BNA\_F

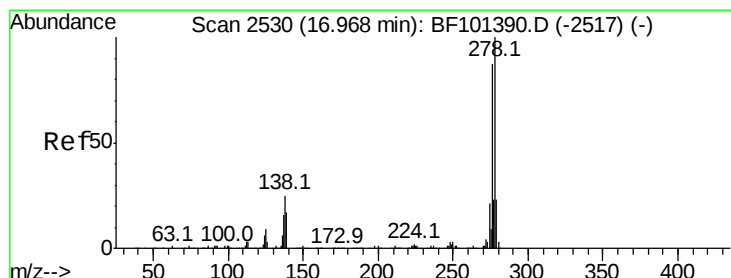
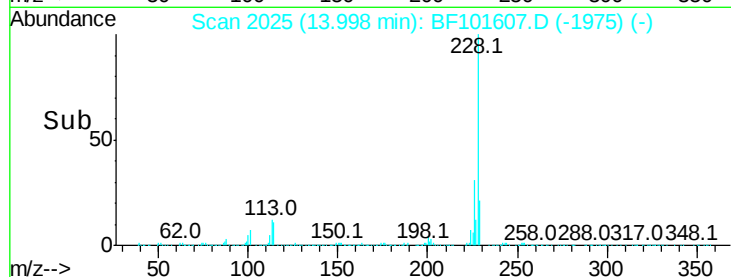
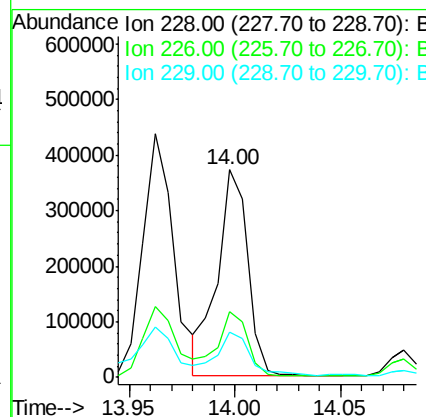
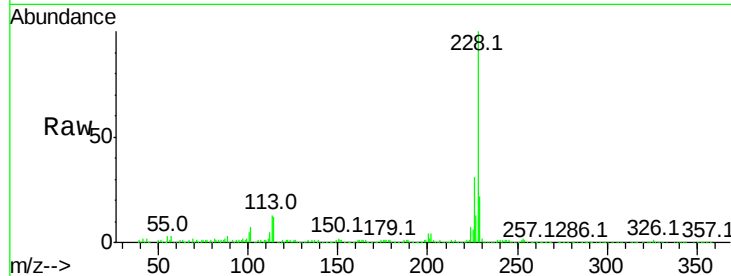
ClientSampleId :

PL-01-121917-C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 373488 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.4  | 25.0  | 37.6   |
| 229       | 21.8  | 16.2  | 24.4   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.389 ng

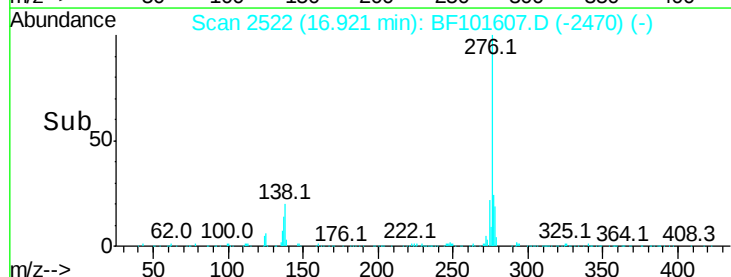
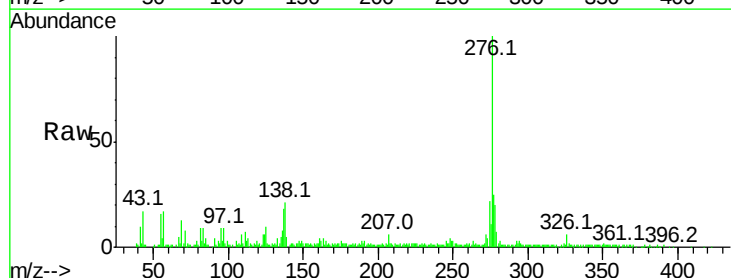
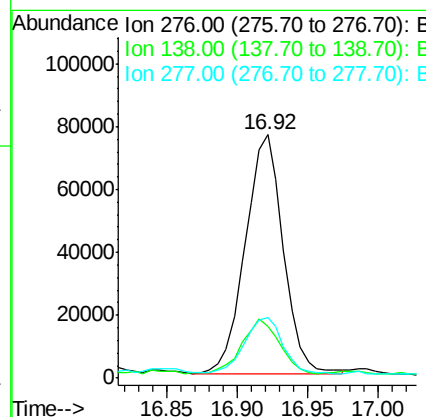
RT: 16.92 min Scan# 2522

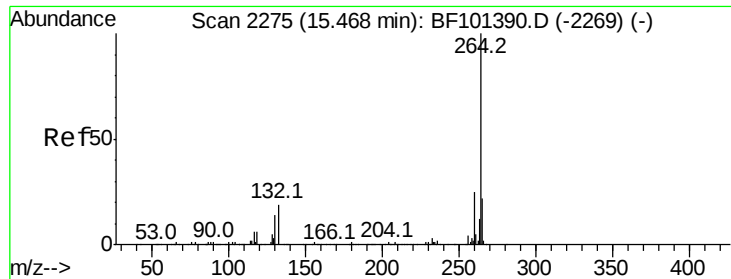
Delta R.T. 0.01 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 142842 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 23.5  | 25.0  | 37.6#  |
| 277       | 24.2  | 20.1  | 30.1   |





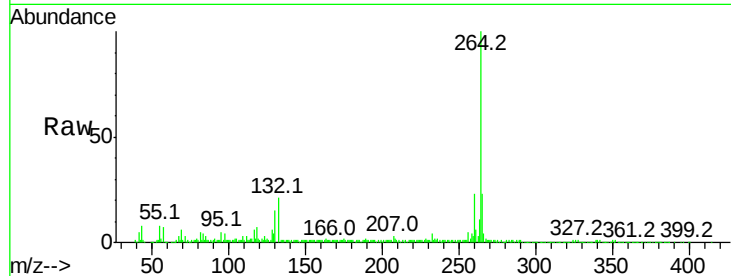
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.2  | 28.8  |
| 265     | 22.9  | 17.5  | 26.3  |

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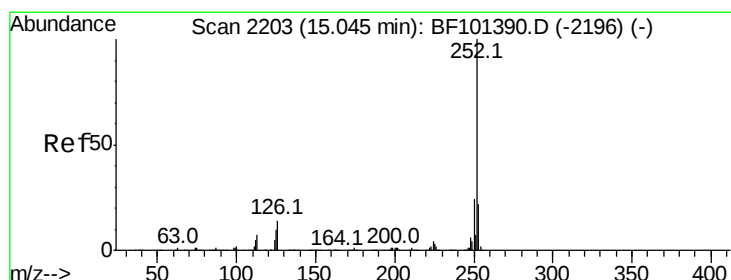
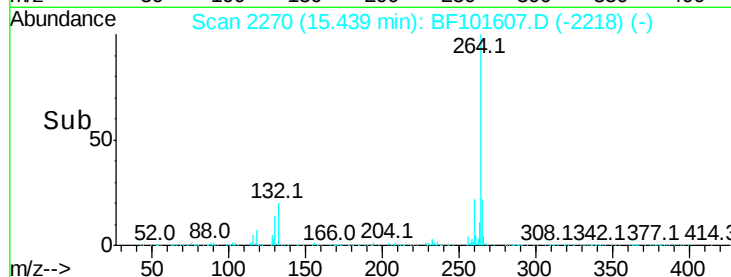
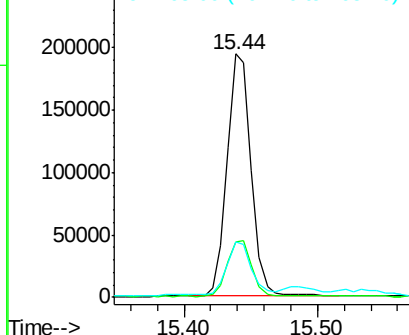


Abundance

Ion 264.00 (263.70 to 264.70): E

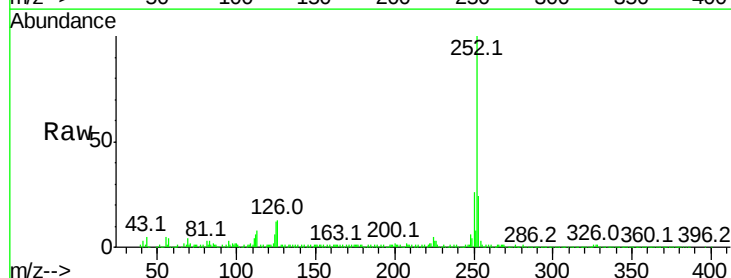
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87  
Benzo(b)fluoranthene  
Concen: 28.957 ng m  
RT: 15.02 min Scan# 2198  
Delta R.T. 0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.0  | 25.6  |
| 125     | 12.5  | 9.0   | 13.6  |

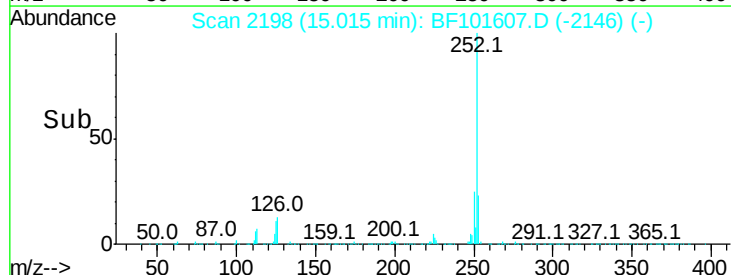
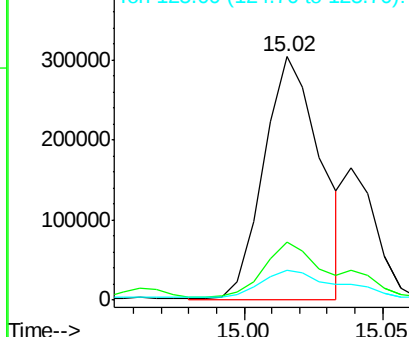


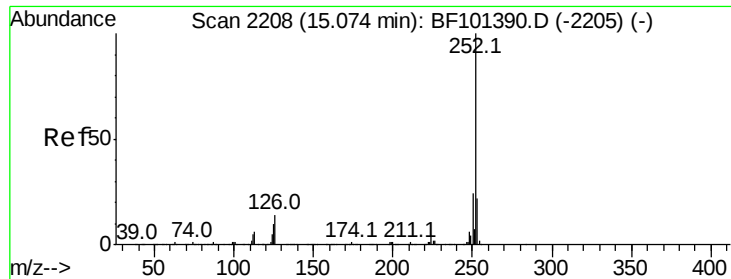
Abundance

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: 9.163 ng

RT: 15.04 min Scan# 2202

Delta R.T. -0.00 min

Lab File: BF101607.D

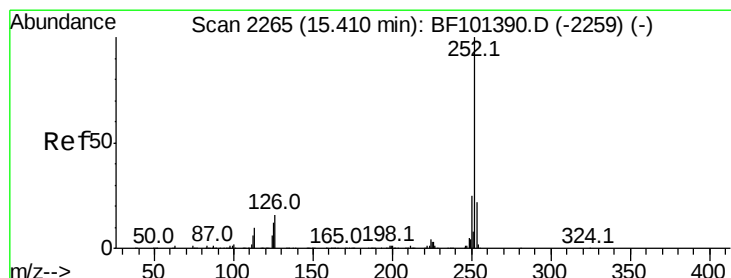
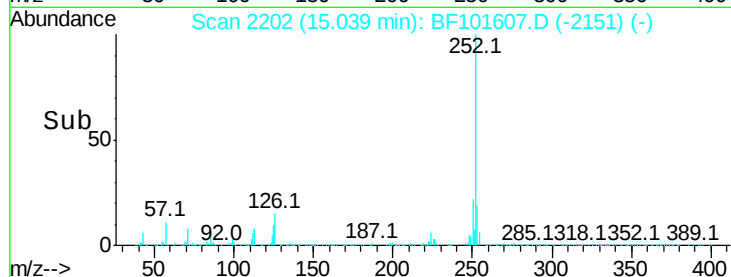
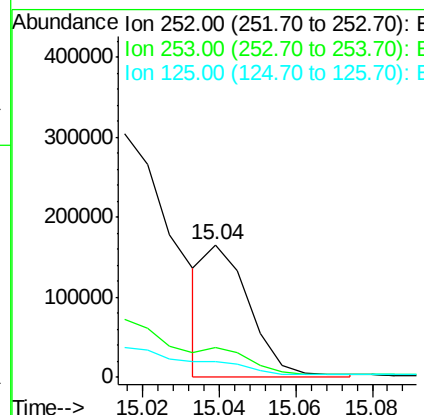
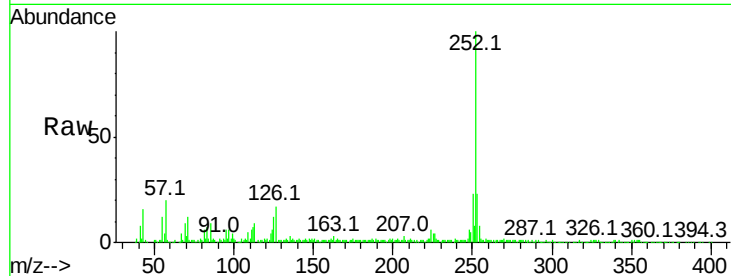
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.9  | 26.9  |
| 125     | 12.1  | 10.2  | 15.2  |

Manual Integrations  
APPROVED

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#89

Benzo(a)pyrene

Concen: 21.113 ng

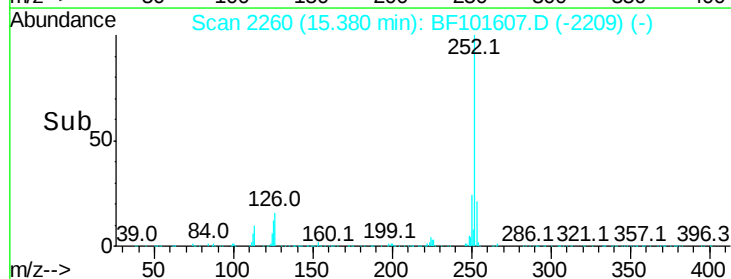
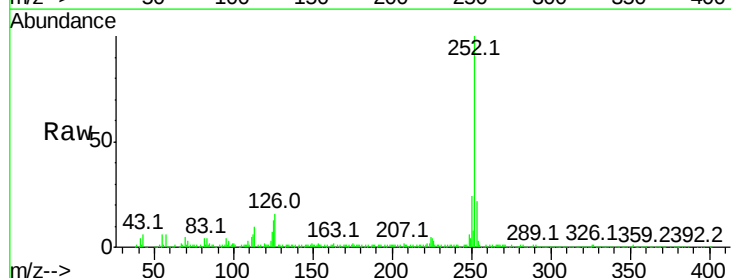
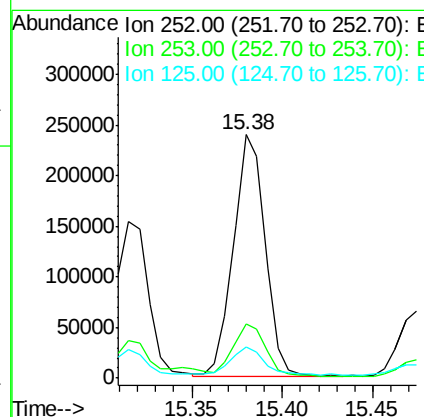
RT: 15.38 min Scan# 2260

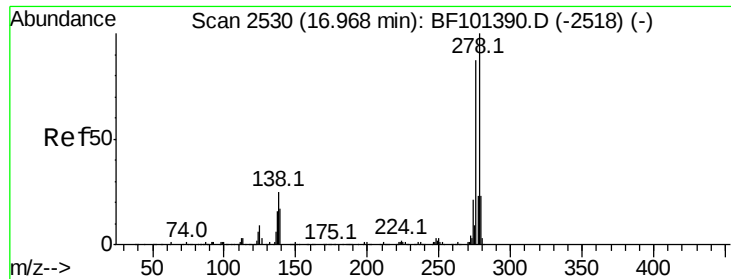
Delta R.T. -0.00 min

Lab File: BF101607.D

Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.1  | 25.7  |
| 125     | 12.9  | 9.8   | 14.6  |





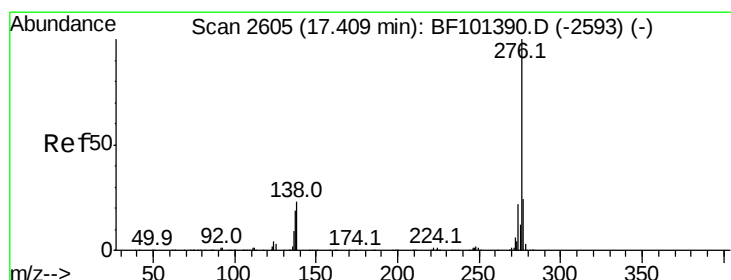
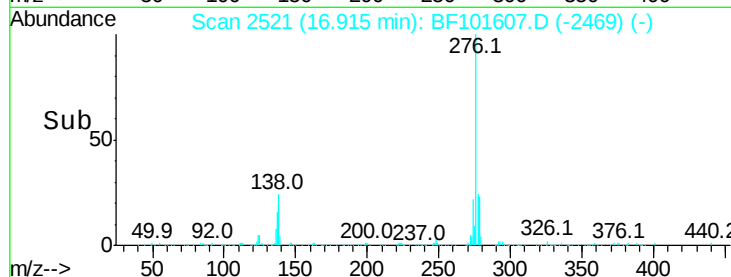
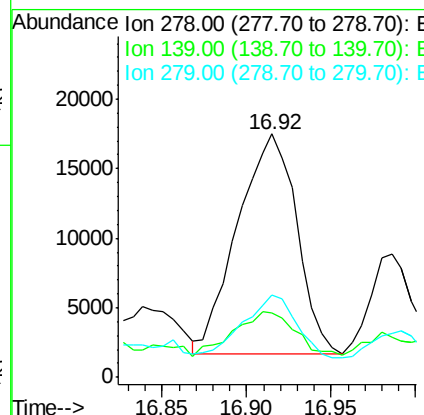
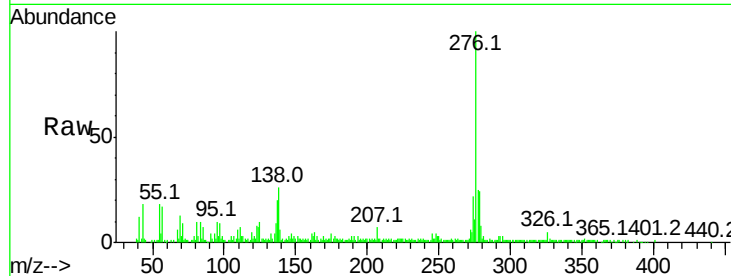
#90  
Dibenzo(a,h)anthracene  
Concen: 3.241 ng  
RT: 16.92 min Scan# 2521  
Delta R.T. 0.01 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-121917-C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.2  | 15.9  | 23.9# |
| 279     | 34.0  | 19.0  | 28.4# |

Manual Integrations  
APPROVED

Sohil  
12/22/2017 12:41:49 PM



#91  
Benzo(g,h,i)perylene  
Concen: 12.080 ng  
RT: 17.37 min Scan# 2598  
Delta R.T. 0.02 min  
Lab File: BF101607.D  
Acq: 21 Dec 2017 15:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.3  | 17.9  | 26.9  |
| 138     | 26.3  | 21.8  | 32.8  |

