

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042115\  
 Data File : BF078701.D  
 Acq On : 22 Apr 2015 00:13  
 Operator : TP/IZ  
 Sample : G1962-01 10X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FILL-SOURCE1

Manual Integrations  
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 4/22/2015 5:22:57 PM

Quant Time: Apr 22 03:55:36 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 22 00:52:13 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.82  | 152  | 25773    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 106057   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 11.17 | 164  | 53224    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 13.90 | 188  | 104676   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 17.77 | 240  | 115585   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 19.46 | 264  | 114964   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 3.85  | 112  | 9218     | 5.90  | ng    | 0.02     |
| 7) Phenol-d6                | 5.34  | 99   | 11935    | 6.09  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 6.76  | 82   | 7167     | 4.10  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.64 | 330  | 2990     | 6.77  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.99  | 172  | 16214    | 4.35  | ng    | -0.01    |
| 78) Terphenyl-d14           | 16.43 | 244  | 18781    | 3.67  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene            | 13.94 | 178  | 52258    | 8.63  | ng    | 99       |
| 74) Fluoranthene            | 15.83 | 202  | 98809    | 15.47 | ng    | 96       |
| 77) Pyrene                  | 16.14 | 202  | 82521    | 11.37 | ng    | 97       |
| 80) Benzo(a)anthracene      | 17.76 | 228  | 42137m   | 6.13  | ng    |          |
| 82) Chrysene                | 17.79 | 228  | 33211    | 5.14  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 20.62 | 276  | 24213    | 3.30  | ng    | # 65     |
| 87) Benzo(b)fluoranthene    | 19.04 | 252  | 56225m   | 7.91  | ng    |          |
| 89) Benzo(a)pyrene          | 19.39 | 252  | 32268    | 5.20  | ng    | # 90     |
| 91) Benzo(g,h,i)perylene    | 20.93 | 276  | 23457    | 3.77  | ng    | 98       |

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

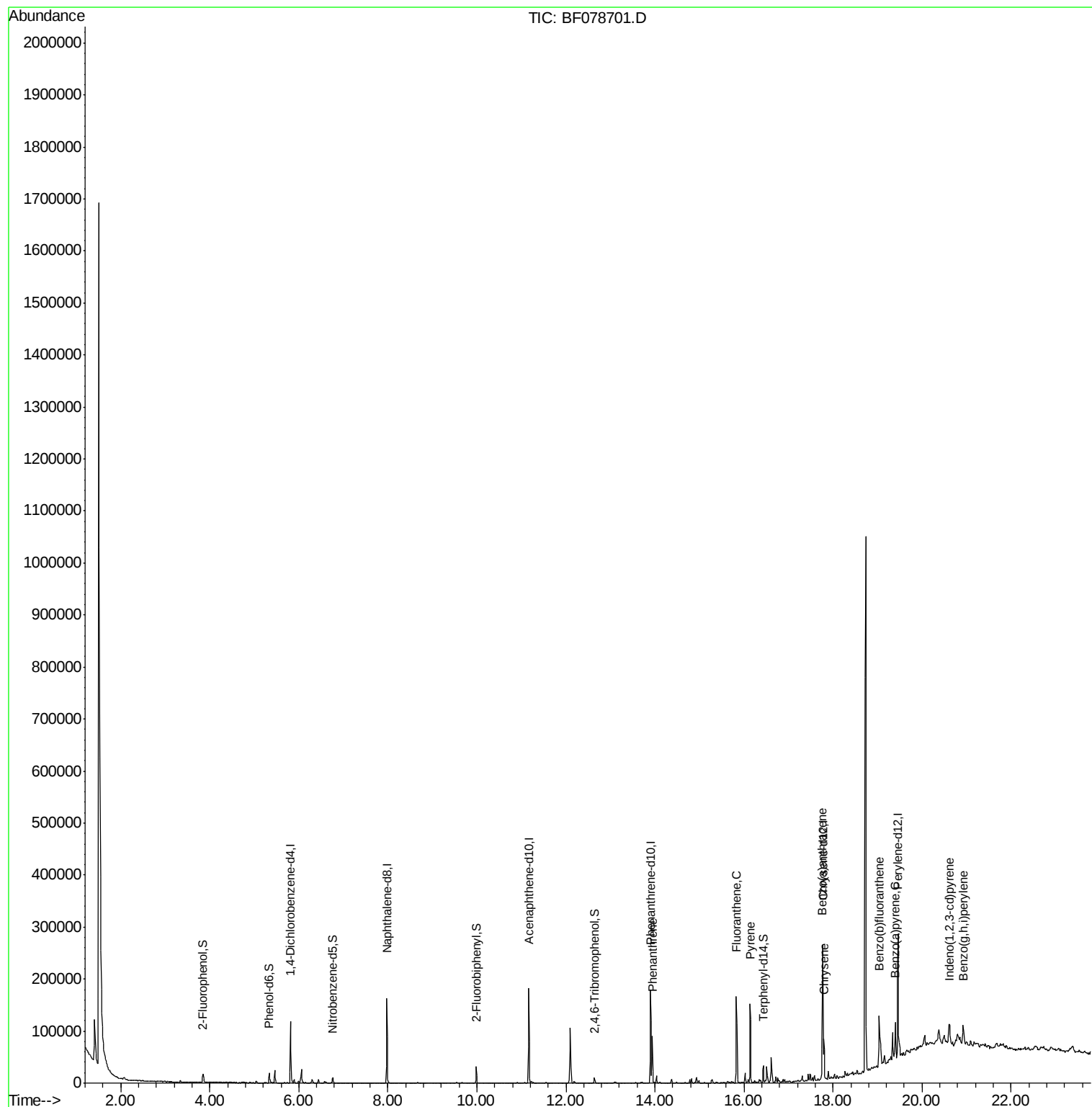
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042115\  
Data File : BF078701.D  
Acq On : 22 Apr 2015 00:13  
Operator : TP/IZ  
Sample : G1962-01 10X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

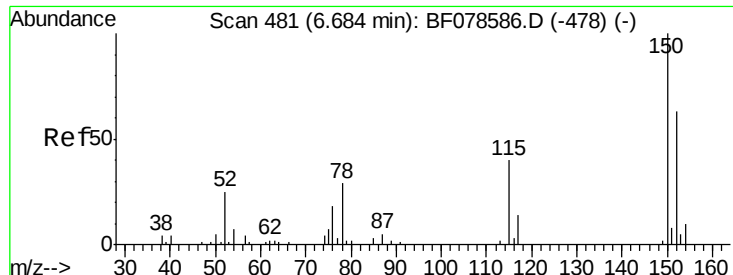
Instrument :  
BNA\_F  
ClientSampleId :  
FILL-SOURCE1

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Quant Time: Apr 22 03:55:36 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 22 00:52:13 2015  
Response via : Initial Calibration





#1

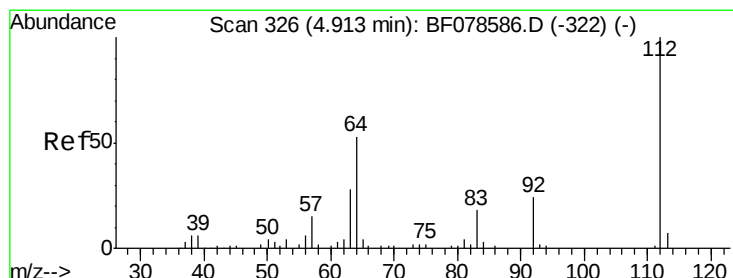
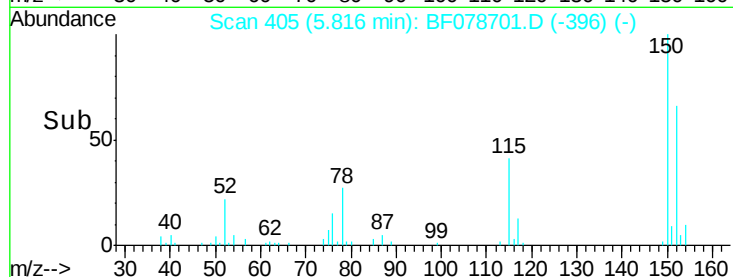
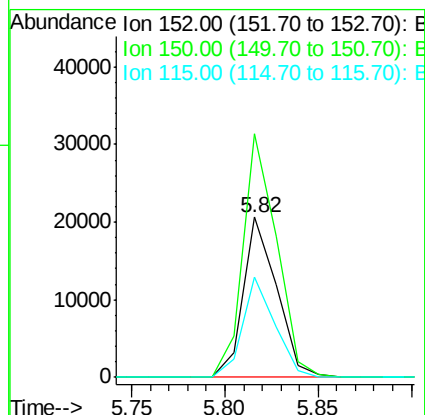
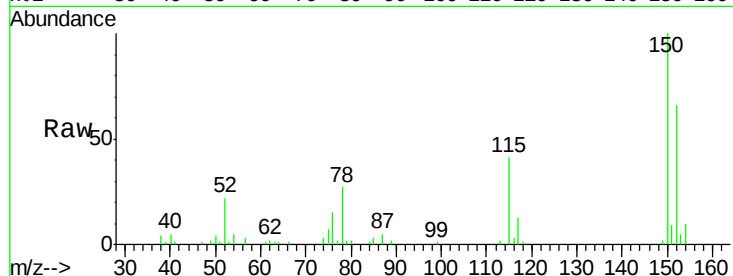
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.82 min Scan# 405  
Delta R.T. 0.00 min  
Lab File: BF078701.D  
Acq: 22 Apr 2015 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
FILL-SOURCE1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.9 | 125.9 | 188.9 |
| 115     | 62.2  | 52.7  | 79.1  |

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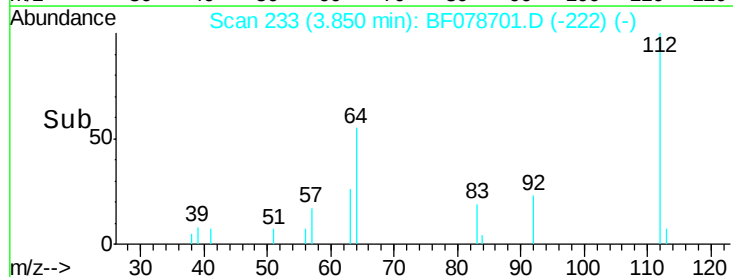
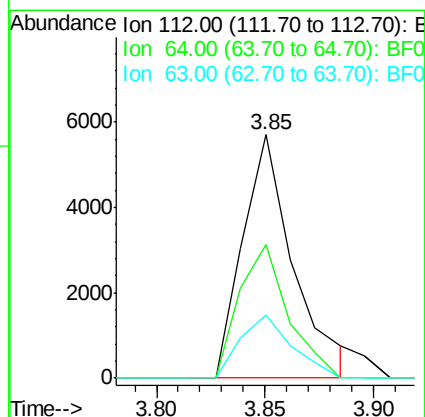
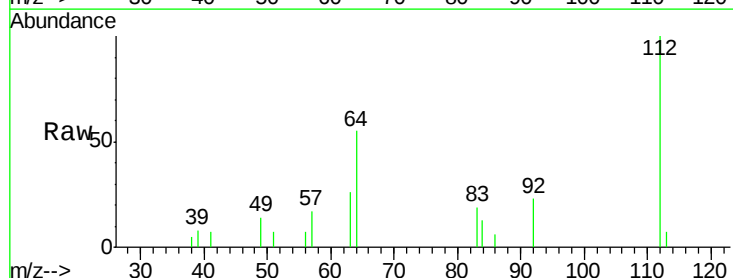
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#5

2-Fluorophenol  
Concen: 5.90 ng  
RT: 3.85 min Scan# 233  
Delta R.T. 0.02 min  
Lab File: BF078701.D  
Acq: 22 Apr 2015 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.7  | 39.9  | 59.9  |
| 63      | 26.1  | 20.2  | 30.4  |





#7

Phenol-d6

Concen: 6.09 ng

RT: 5.34 min Scan# 363

Delta R.T. 0.01 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

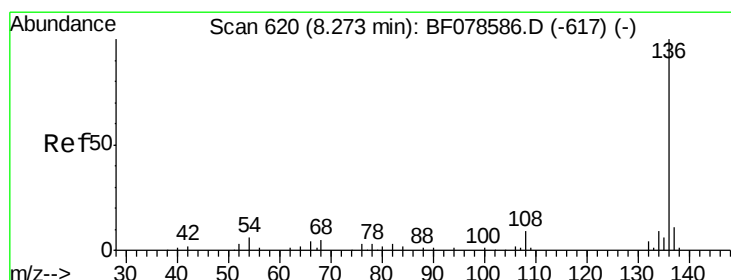
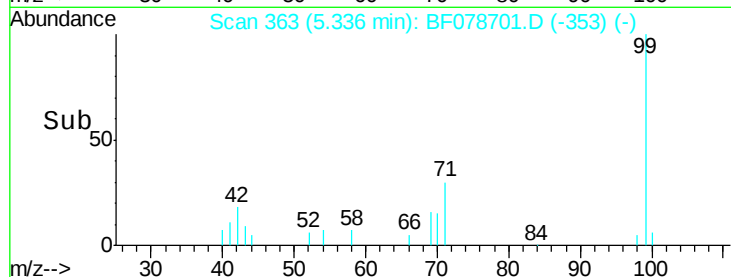
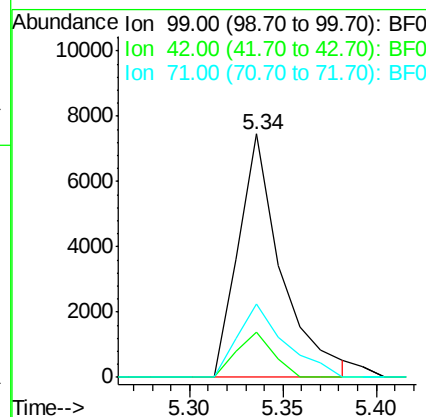
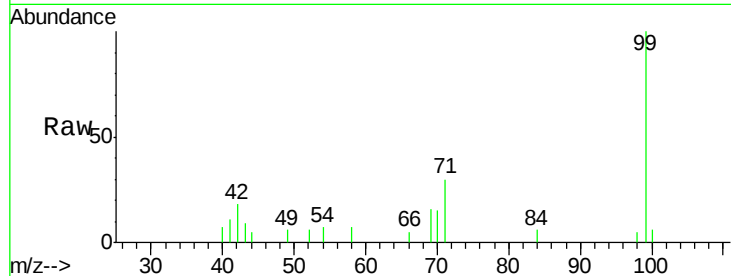
ClientSampleId :

FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 11935 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 18.4  | 14.8  | 22.2  |
| 71        | 30.3  | 26.6  | 39.8  |

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#21

Naphthalene-d8

Concen: 20.00 ng

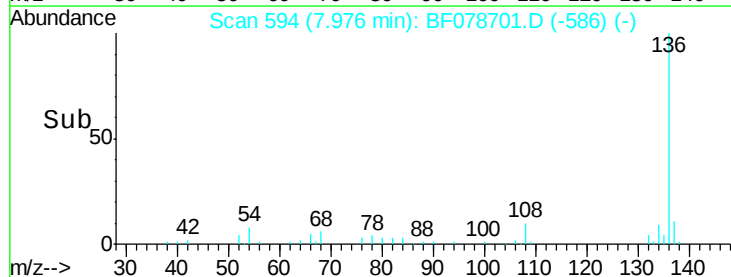
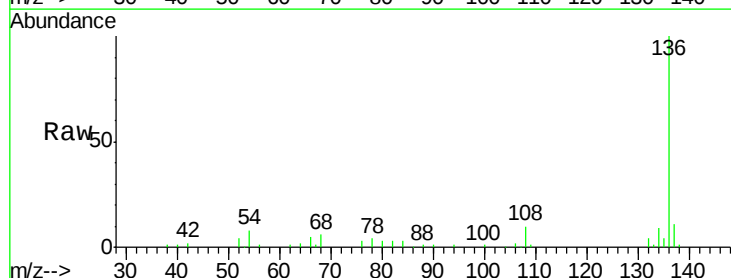
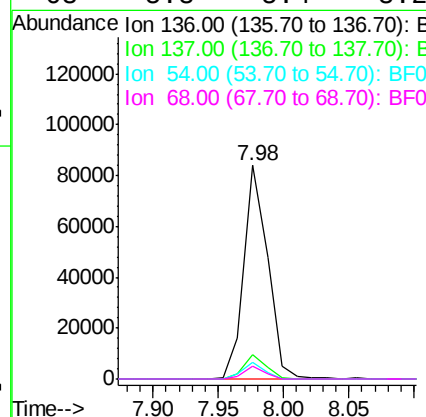
RT: 7.98 min Scan# 594

Delta R.T. -0.01 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 106057 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 9.0   | 13.4   |
| 54        | 7.6   | 7.0   | 10.6   |
| 68        | 5.8   | 5.4   | 8.2    |





#23

Nitrobenzene-d5

Concen: 4.10 ng

RT: 6.76 min Scan# 488

Delta R.T. 0.00 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

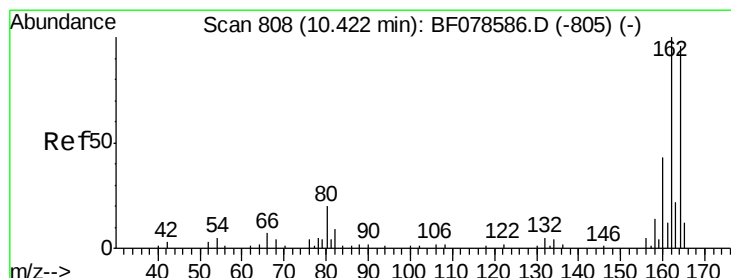
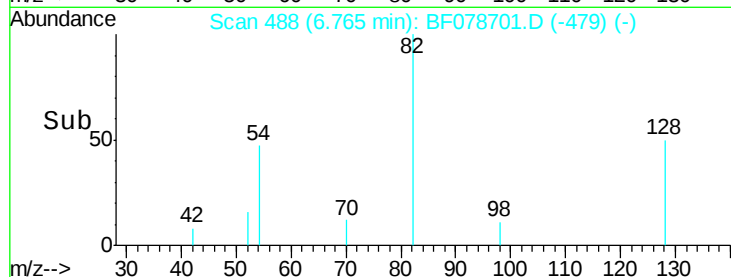
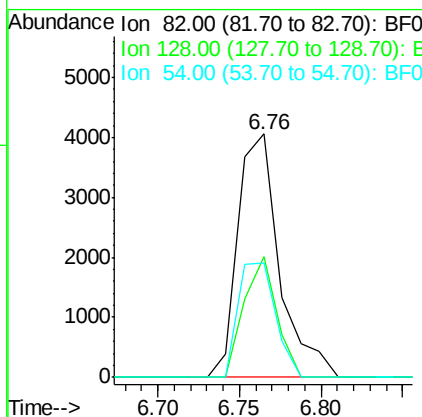
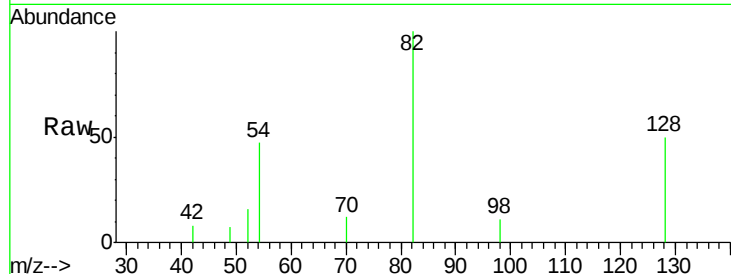
ClientSampled :

FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 7167  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 49.5  | 31.8  | 47.8# |
| 54        | 46.8  | 41.5  | 62.3  |

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#38

Acenaphthene-d10

Concen: 20.00 ng

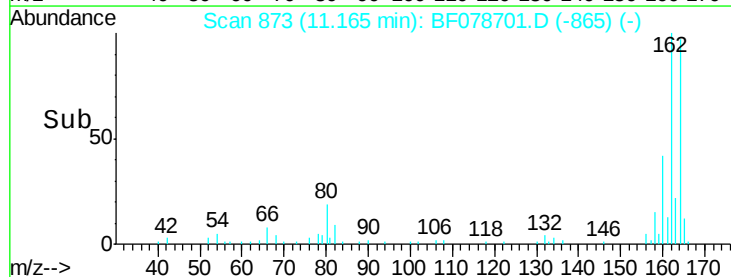
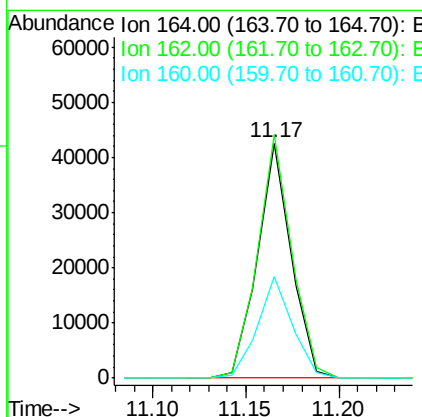
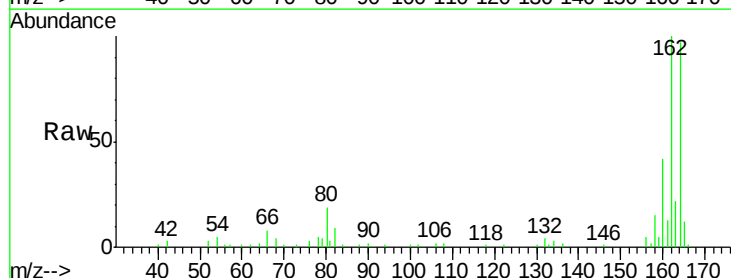
RT: 11.17 min Scan# 873

Delta R.T. -0.01 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 53224 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 103.5 | 82.2  | 123.2 |
| 160       | 43.3  | 34.7  | 52.1  |





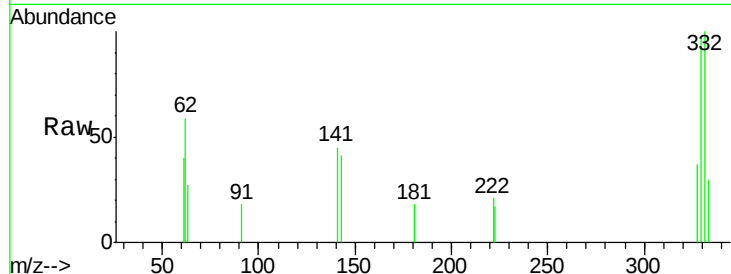
#41  
 2,4,6-Tribromophenol  
 Concen: 6.77 ng  
 RT: 12.64 min Scan# 1002  
 Delta R.T. -0.01 min  
 Lab File: BF078701.D  
 Acq: 22 Apr 2015 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FILL-SOURCE1

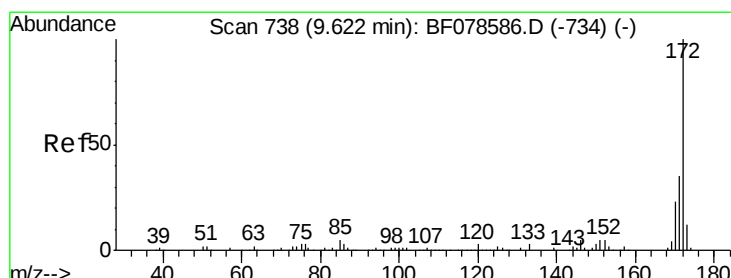
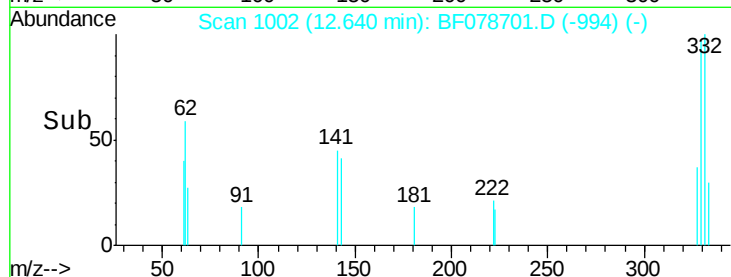
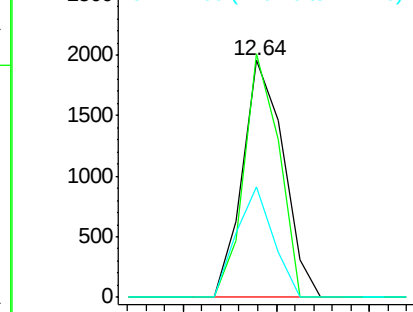
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 86.8  | 78.6  | 117.8 |
| 141     | 41.6  | 31.2  | 46.8  |

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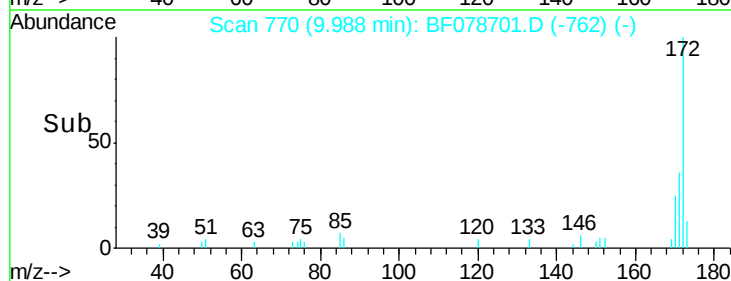
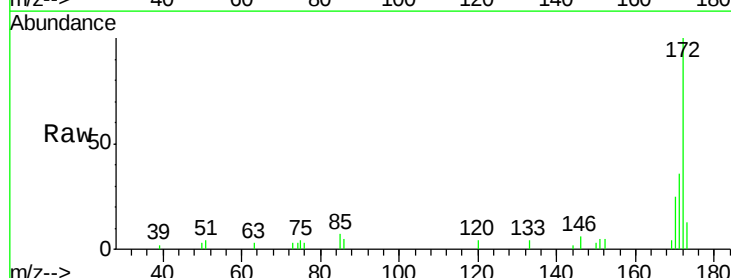
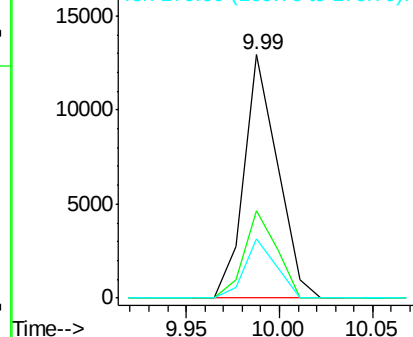
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 4.35 ng  
 RT: 9.99 min Scan# 770  
 Delta R.T. -0.01 min  
 Lab File: BF078701.D  
 Acq: 22 Apr 2015 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 28.6  | 42.8  |
| 170     | 24.5  | 18.5  | 27.7  |

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





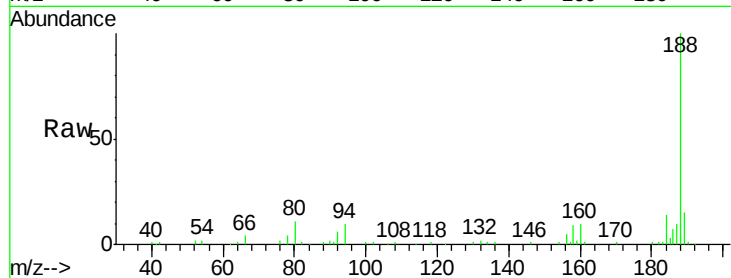
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 13.90 min Scan# 1112  
 Delta R.T. -0.01 min  
 Lab File: BF078701.D  
 Acq: 22 Apr 2015 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FILL-SOURCE1

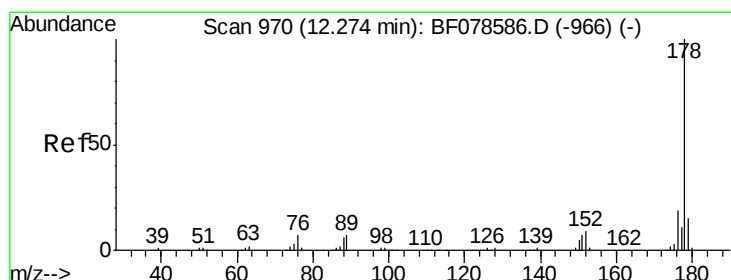
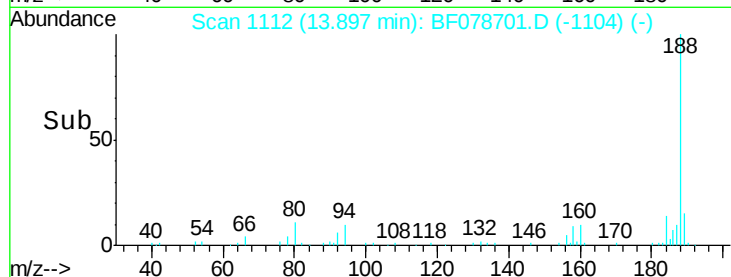
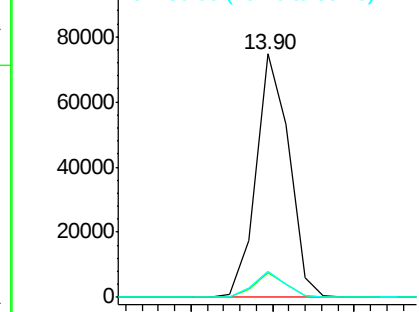
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 104676 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.4  | 9.0   | 13.4   |
| 80        | 10.7  | 9.5   | 14.3   |

Manual Integrations  
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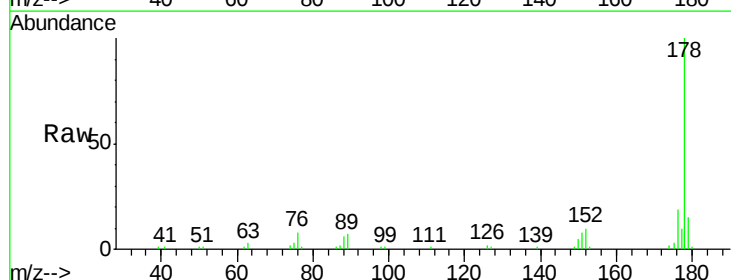


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

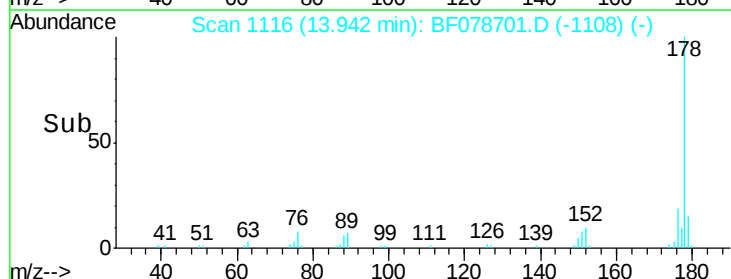
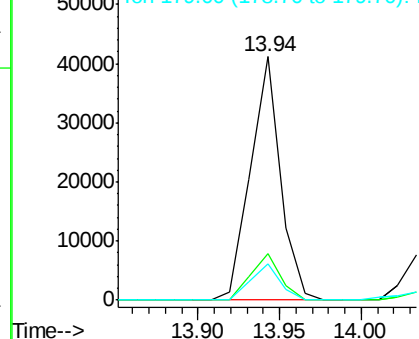


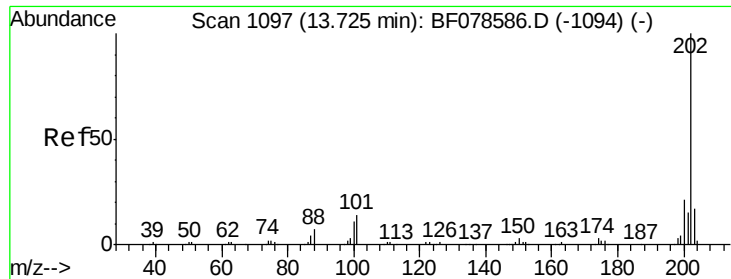
#70  
 Phenanthrene  
 Concen: 8.63 ng  
 RT: 13.94 min Scan# 1116  
 Delta R.T. -0.01 min  
 Lab File: BF078701.D  
 Acq: 22 Apr 2015 00:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 52258 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.9  | 15.4  | 23.0  |
| 179       | 15.1  | 12.2  | 18.2  |



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 15.47 ng

RT: 15.83 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

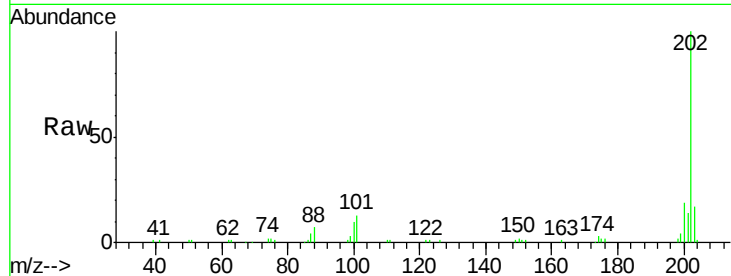
ClientSampleId :

FILL-SOURCE1

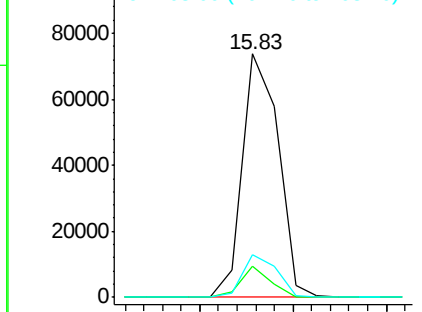
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 98809 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.8  | 0.0   | 35.2  |
| 203       | 17.3  | 0.0   | 38.5  |

Manual Integrations  
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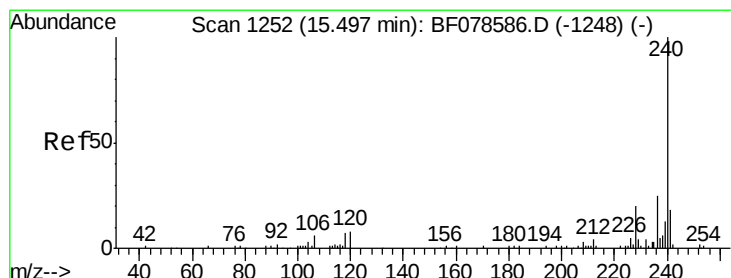
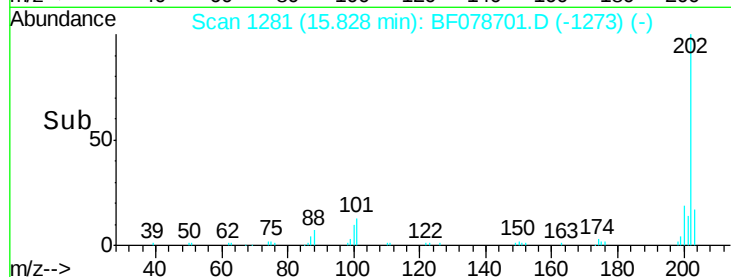
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

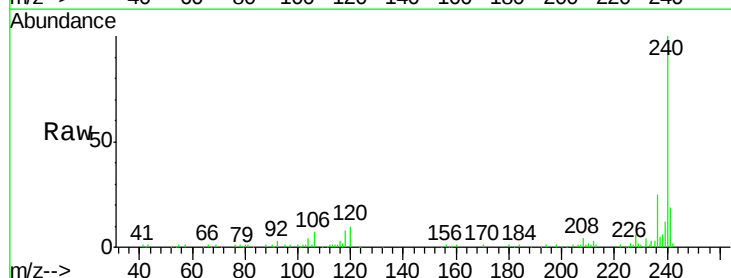
RT: 17.77 min Scan# 1451

Delta R.T. -0.01 min

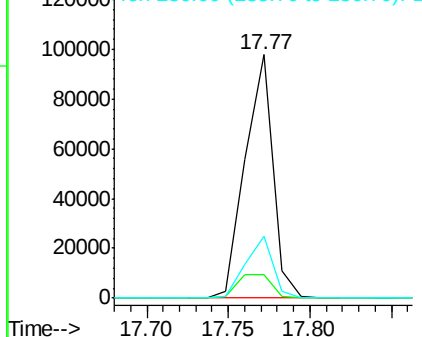
Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

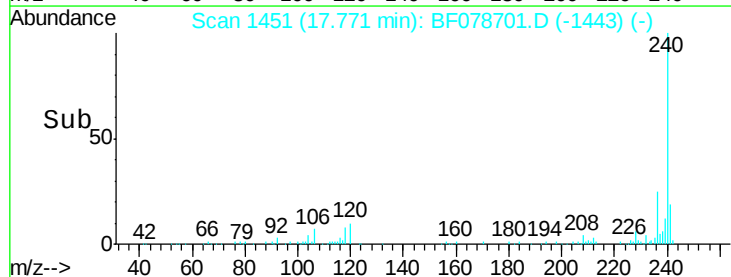
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 115585 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.7   | 7.1   | 10.7   |
| 236       | 25.4  | 21.4  | 32.2   |

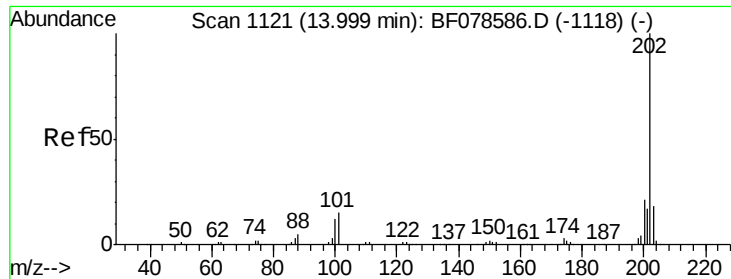


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pvrene

Concen: 11.37 ng

RT: 16.14 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

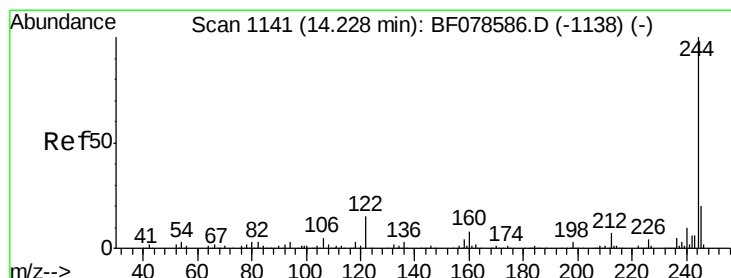
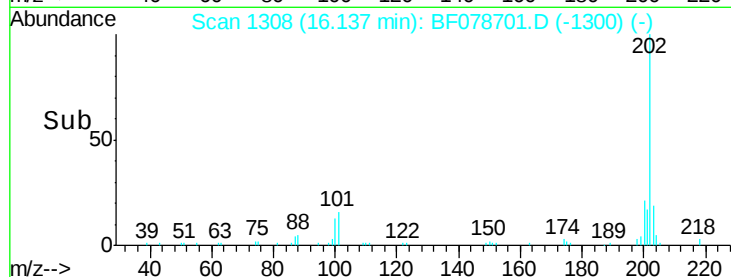
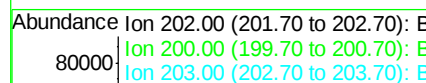
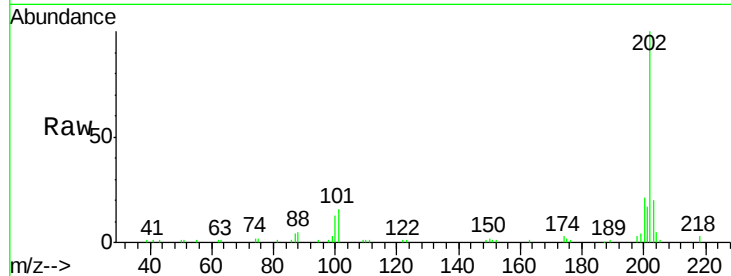
ClientSampleId :

FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 82521 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.6  | 16.3  | 24.5  |
| 203       | 20.2  | 13.8  | 20.6  |

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#78

Terphenyl-d14

Concen: 3.67 ng

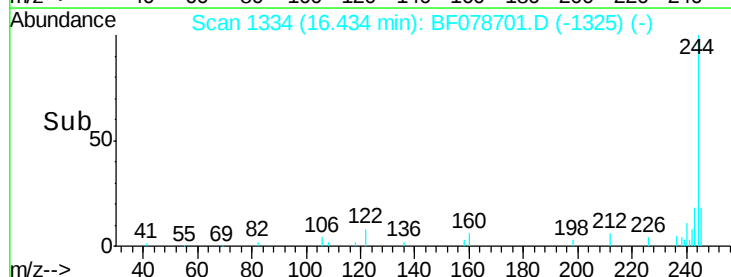
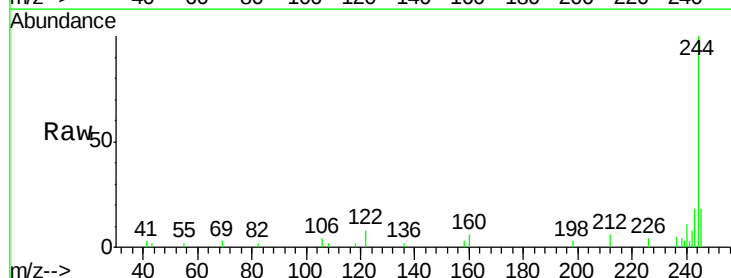
RT: 16.43 min Scan# 1334

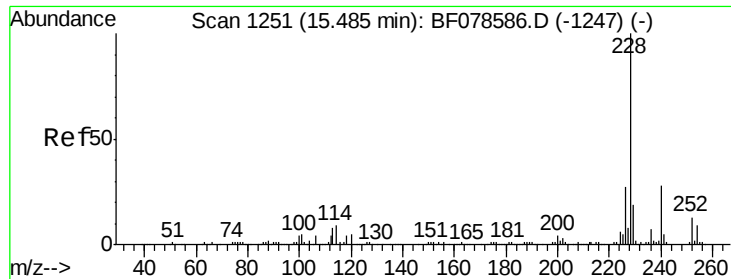
Delta R.T. 0.00 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 18781 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 6.4   | 5.0   | 7.4   |
| 122       | 7.9   | 7.1   | 10.7  |





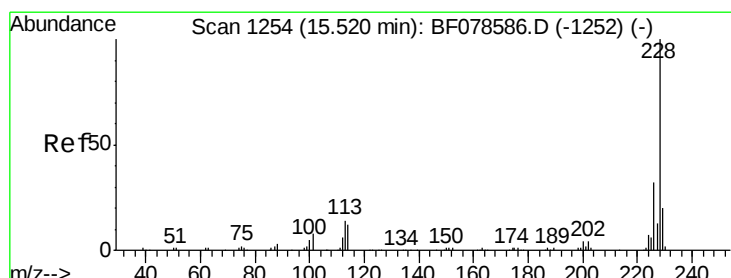
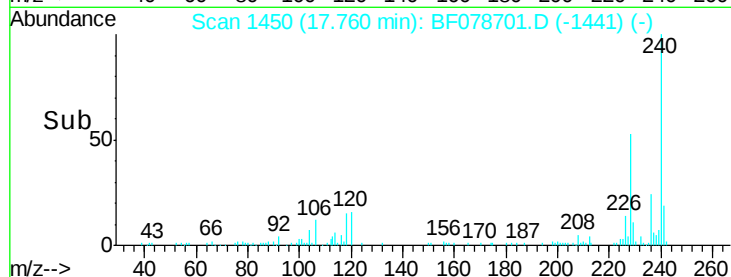
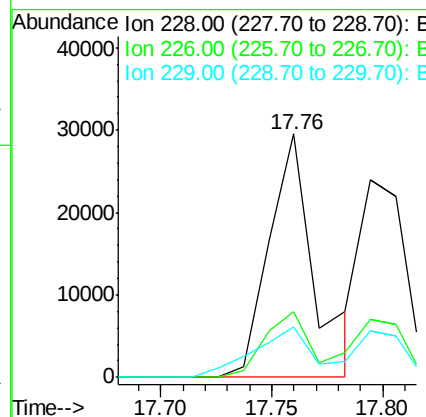
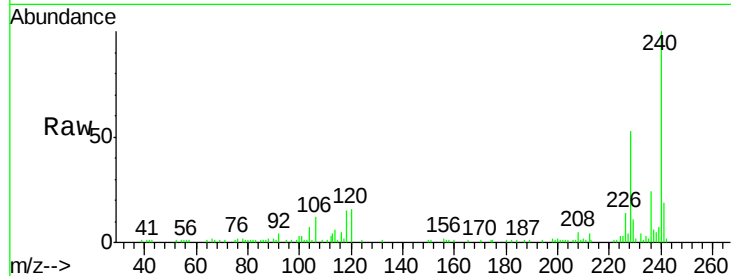
#80  
Benzo(a)anthracene  
Concen: 6.13 ng/mL  
RT: 17.76 min Scan# 1450  
Delta R.T. 0.00 min  
Lab File: BF078701.D  
Acq: 22 Apr 2015 00:13

Instrument :  
BNA\_F  
ClientSampleId :  
FILL-SOURCE1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.8  | 21.3  | 31.9  |
| 229     | 20.5  | 15.4  | 23.2  |

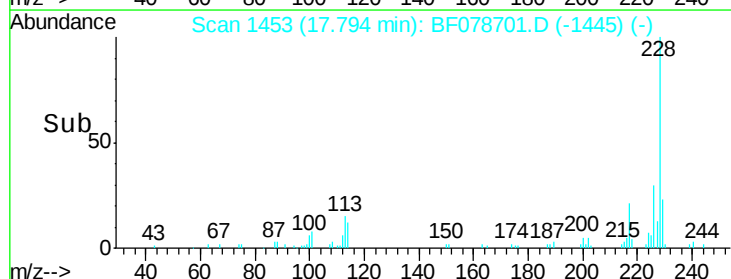
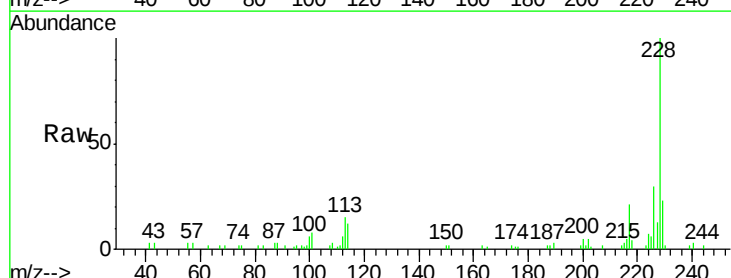
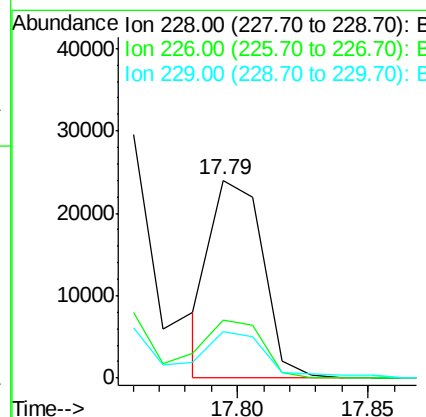
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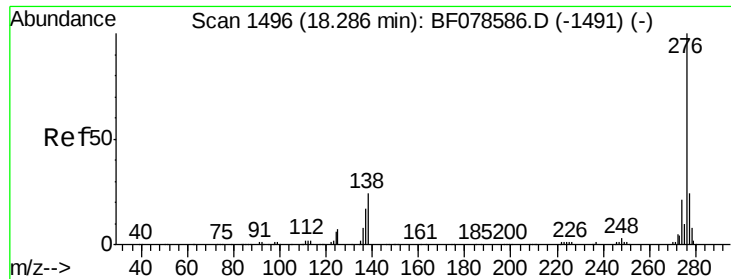
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#82  
Chrysene  
Concen: 5.14 ng/mL  
RT: 17.79 min Scan# 1453  
Delta R.T. -0.01 min  
Lab File: BF078701.D  
Acq: 22 Apr 2015 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.2  | 36.4  |
| 229     | 23.3  | 15.8  | 23.8  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.30 ng

RT: 20.62 min Scan# 1700

Delta R.T. -0.05 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

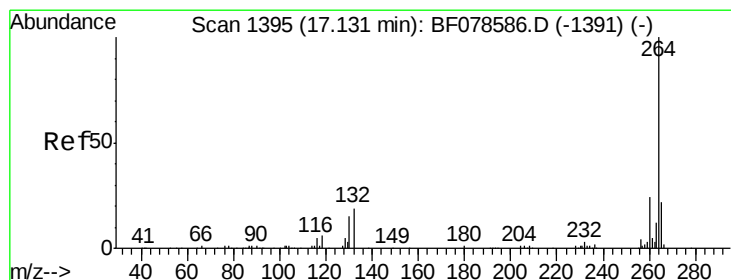
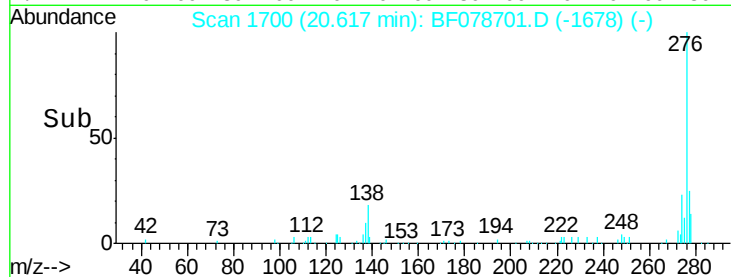
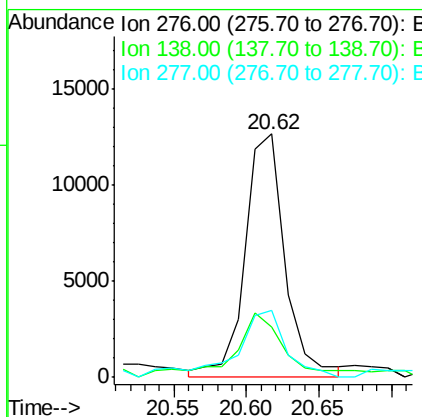
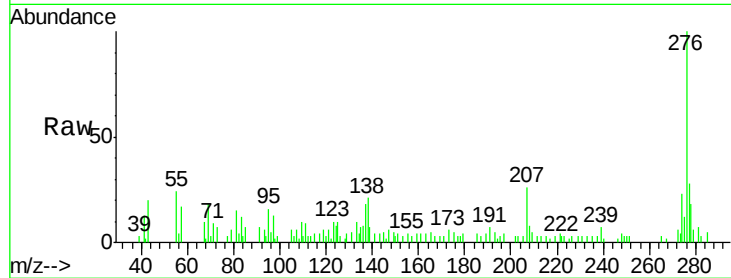
ClientSampleId :

FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 24213 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 37.7  | 16.9  | 25.3# |
| 277       | 35.5  | 15.8  | 23.6# |

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#86

Perylene-d12

Concen: 20.00 ng

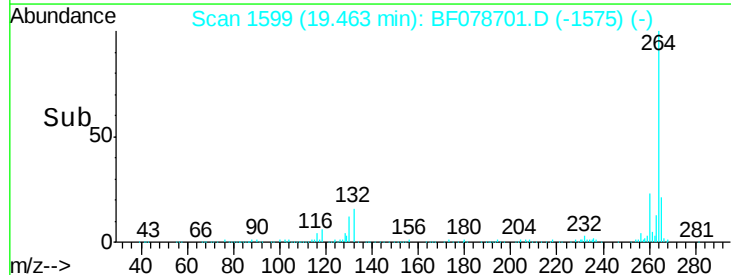
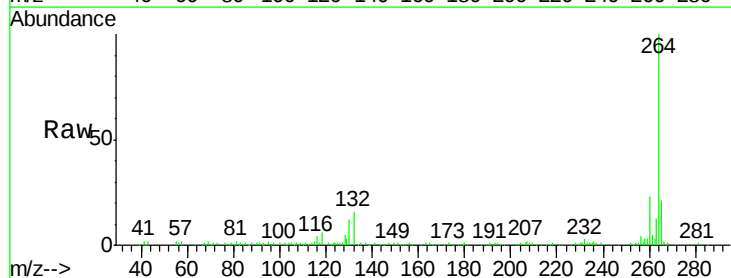
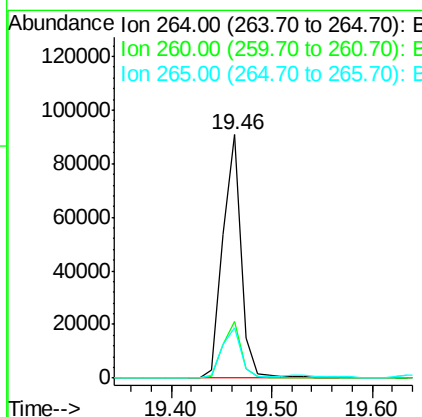
RT: 19.46 min Scan# 1599

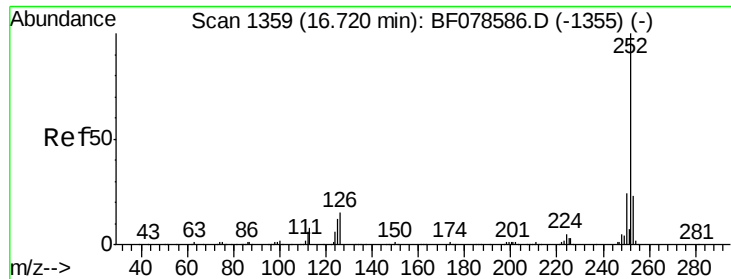
Delta R.T. -0.02 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 114964 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.4  | 18.6  | 27.8   |
| 265       | 20.8  | 17.0  | 25.6   |





#87

Benzo(b)fluoranthene

Concen: 7.91 ng

RT: 19.04 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

Instrument :

BNA\_F

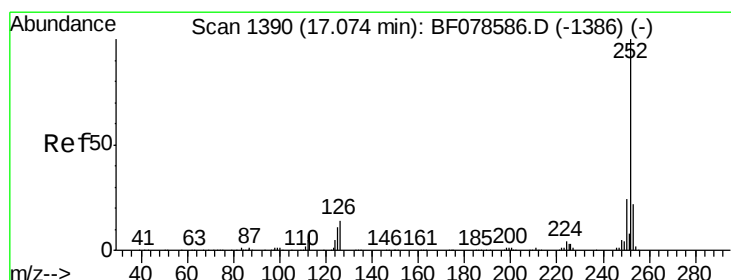
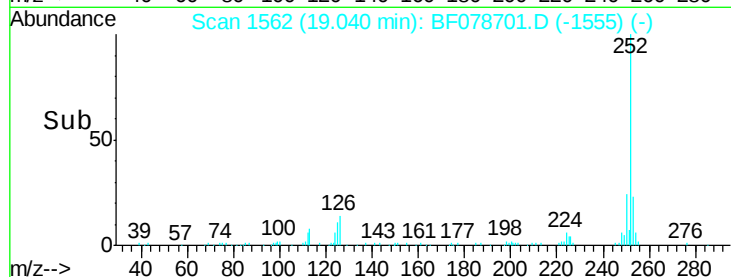
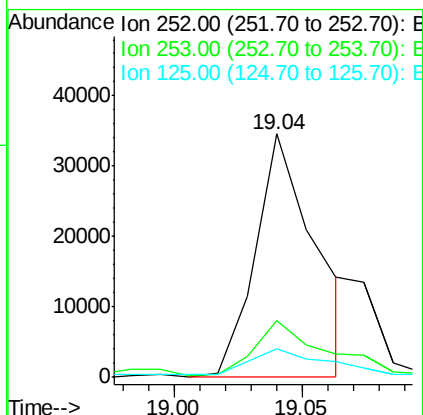
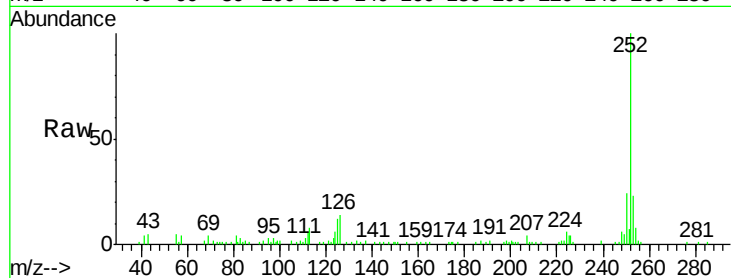
ClientSampleId :

FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 56225 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.1  | 17.2  | 25.8  |
| 125       | 11.8  | 7.0   | 10.4  |

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#89

Benzo(a)pyrene

Concen: 5.20 ng

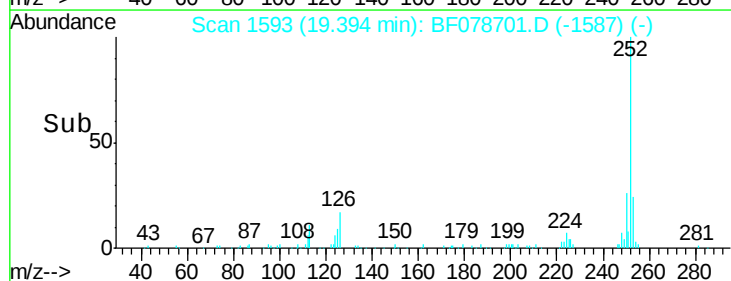
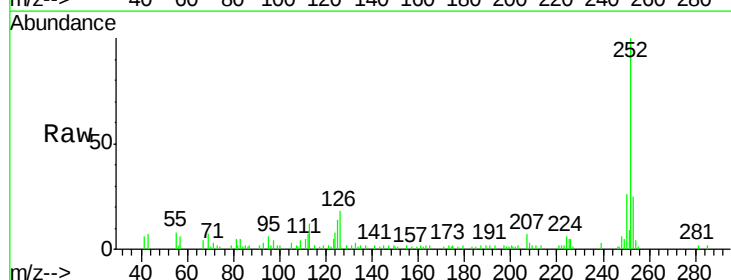
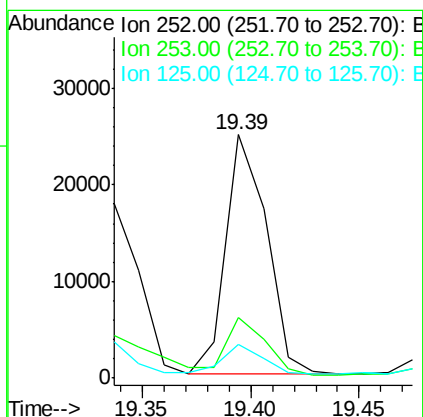
RT: 19.39 min Scan# 1593

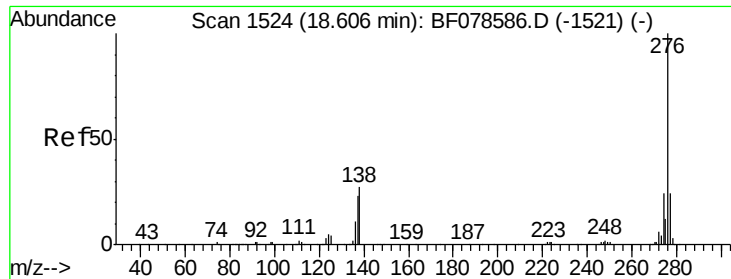
Delta R.T. -0.03 min

Lab File: BF078701.D

Acq: 22 Apr 2015 00:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 32268 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.9  | 16.8  | 25.2  |
| 125       | 13.7  | 7.4   | 11.0  |





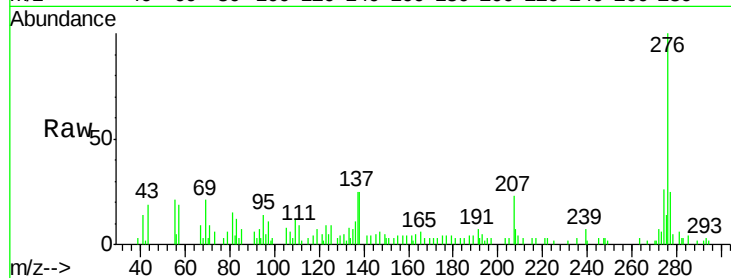
#91  
 Benzo(a,h,i)perylene  
 Concen: 3.77 ng  
 RT: 20.93 min Scan# 1727  
 Delta R.T. -0.06 min  
 Lab File: BF078701.D  
 Acq: 22 Apr 2015 00:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FILL-SOURCE1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 23457 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.1  | 19.0  | 28.4  |
| 138       | 24.7  | 19.9  | 29.9  |

Manual Integrations  
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Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 277.00 (276.70 to 277.70): E  
 Ion 138.00 (137.70 to 138.70): E

