

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051116\  
 Data File : BF086906.D  
 Acq On : 12 May 2016 00:00  
 Operator : UM/SJ  
 Sample : H2952-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1

Manual Integrations  
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 5/12/2016 9:10:05 AM

Quant Time: May 12 01:42:27 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 12 01:06:48 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.63  | 152  | 149597   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.92  | 136  | 614231   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.67  | 164  | 284806   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.14 | 188  | 486145   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.77 | 240  | 319708   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.13 | 264  | 294537   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.22  | 112  | 950524   | 107.60 | ng    | 0.00     |
| 7) Phenol-d6                | 6.30  | 99   | 1351460  | 114.48 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 896634   | 73.30  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.46 | 330  | 307466   | 101.97 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.99  | 172  | 1267906  | 74.82  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.73 | 244  | 971567   | 64.48  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.39  | 163  | 233930   | 10.77  | ng    | 99       |
| 70) Phenanthrene            | 11.17 | 178  | 56915    | 2.19   | ng    | 99       |
| 74) Fluoranthene            | 12.35 | 202  | 146720   | 5.50   | ng    | 90       |
| 77) Pyrene                  | 12.57 | 202  | 133801   | 5.47   | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.76 | 228  | 81535    | 4.54   | ng    | 98       |
| 82) Chrysene                | 13.79 | 228  | 55423    | 3.04   | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.77 | 252  | 92312m   | 4.82   | ng    |          |
| 89) Benzo(a)pyrene          | 15.07 | 252  | 59608    | 3.61   | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 16.75 | 276  | 36908    | 2.61   | ng    | 95       |

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

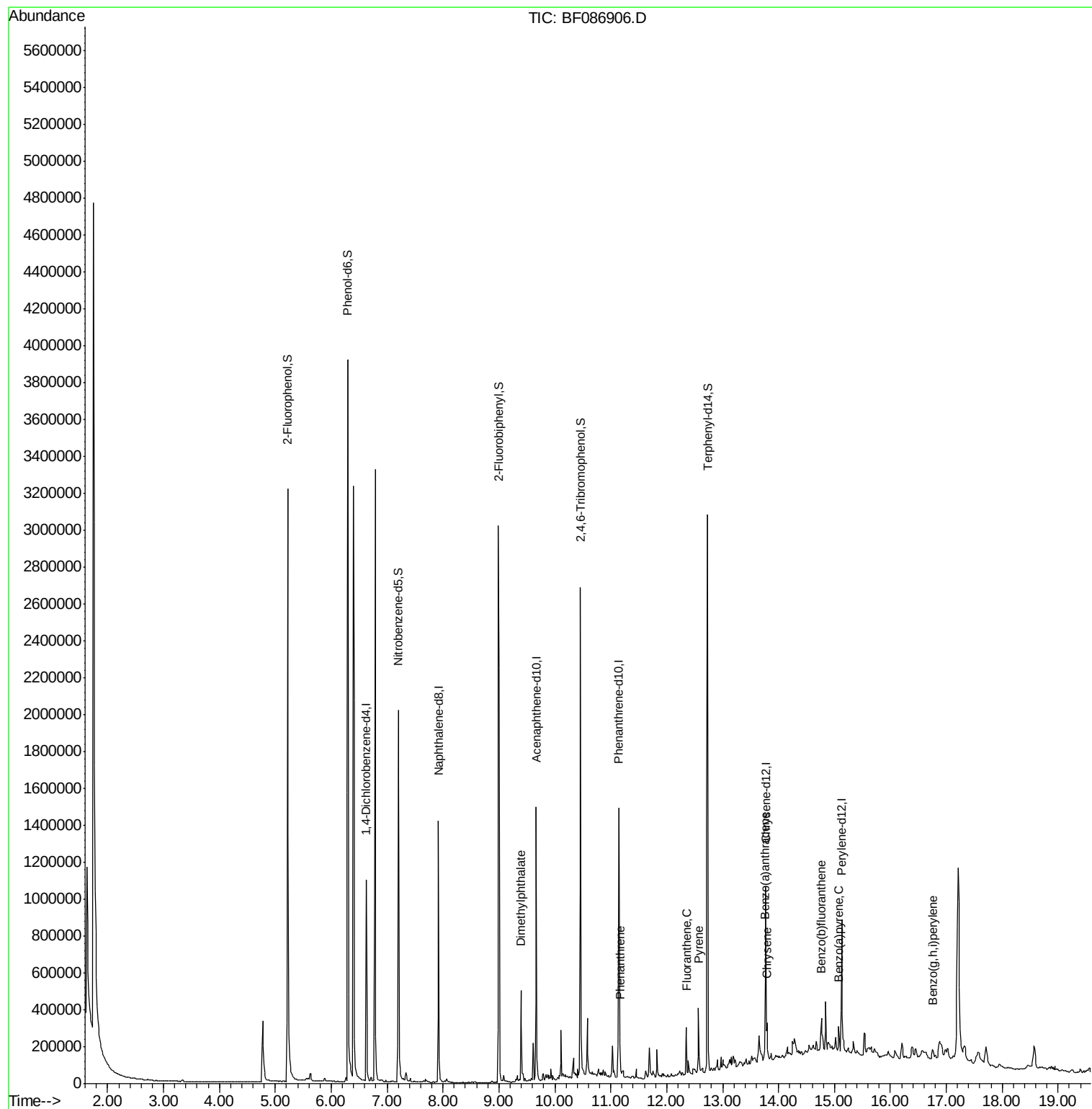
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051116\  
Data File : BF086906.D  
Acq On : 12 May 2016 00:00  
Operator : UM/SJ  
Sample : H2952-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

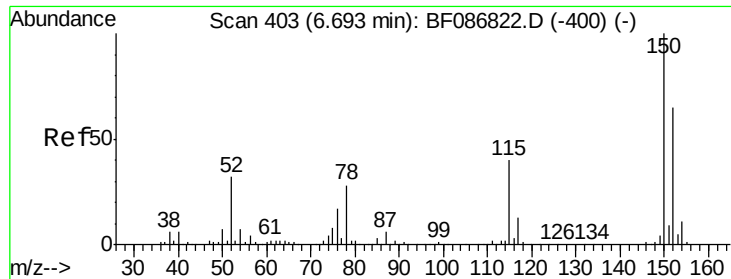
Instrument :  
BNA\_F  
ClientSampleId :  
S-1

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Quant Time: May 12 01:42:27 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 12 01:06:48 2016  
Response via : Initial Calibration





#1

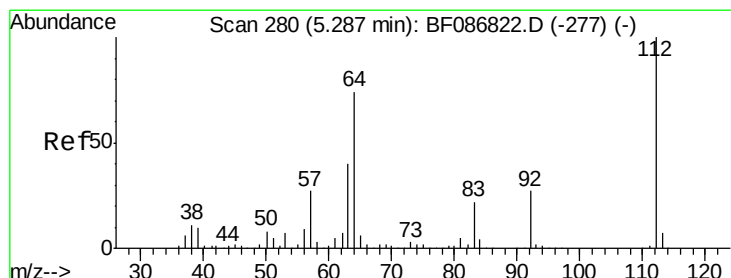
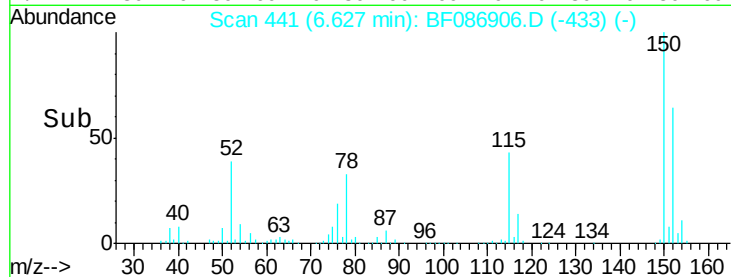
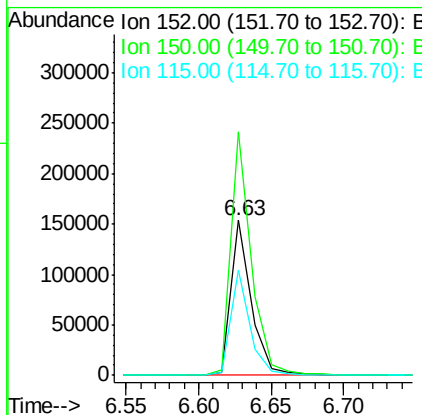
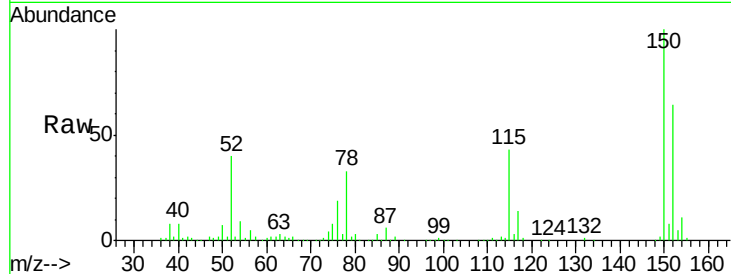
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.63 min Scan# 441  
Delta R.T. -0.01 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

Instrument :  
BNA\_F  
ClientSampleId :  
S-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.3 | 125.8 | 188.6 |
| 115     | 68.3  | 51.5  | 77.3  |

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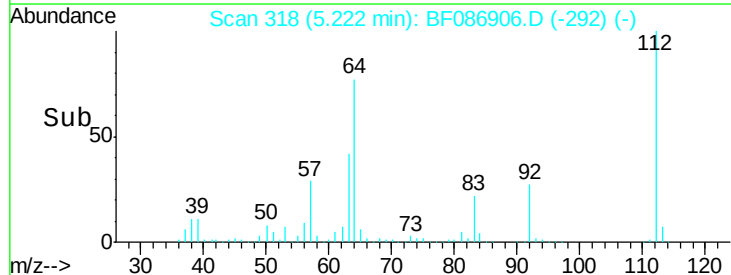
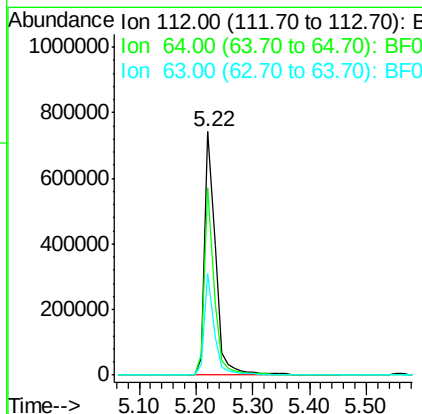
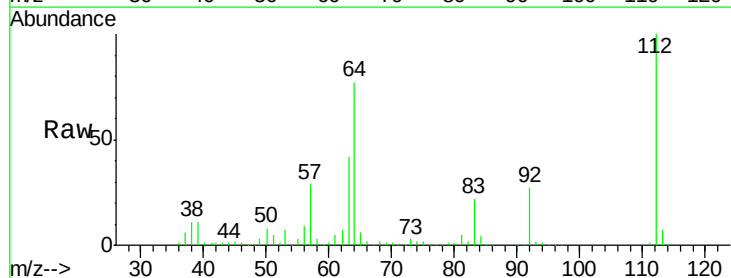
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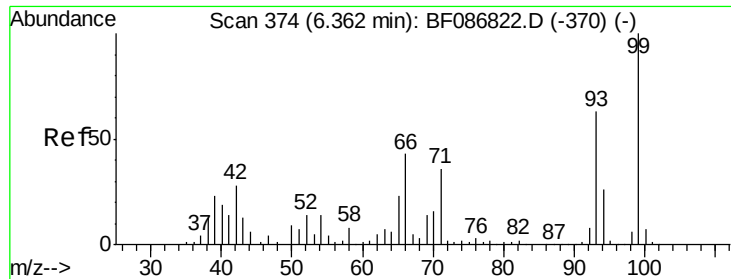


#5

2-Fluorophenol  
Concen: 107.60 ng  
RT: 5.22 min Scan# 318  
Delta R.T. 0.00 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.9  | 52.1  | 78.1  |
| 63      | 41.5  | 25.7  | 38.5  |





#7

Phenol-d6

Concen: 114.48 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Instrument :

BNA\_F

ClientSampleId :

S-1

Tgt Ion: 99 Resp: 1351460

Ion Ratio Lower Upper

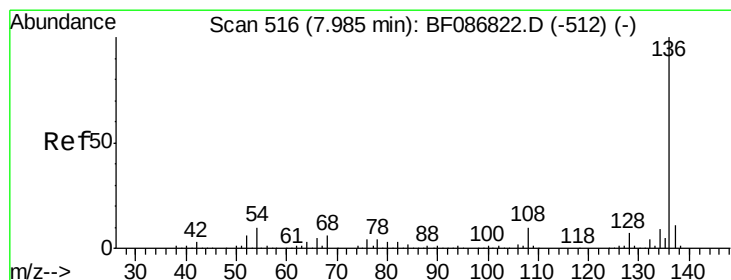
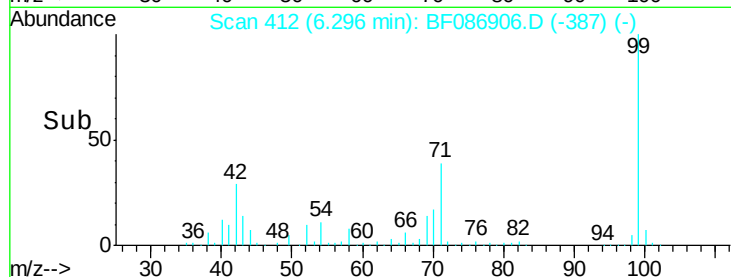
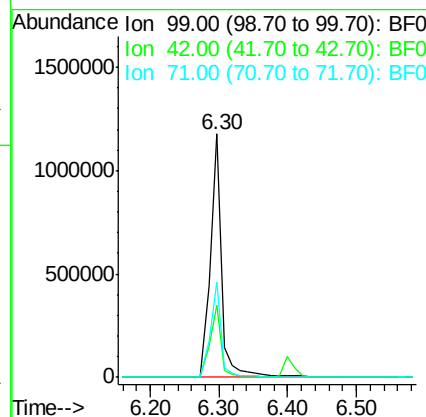
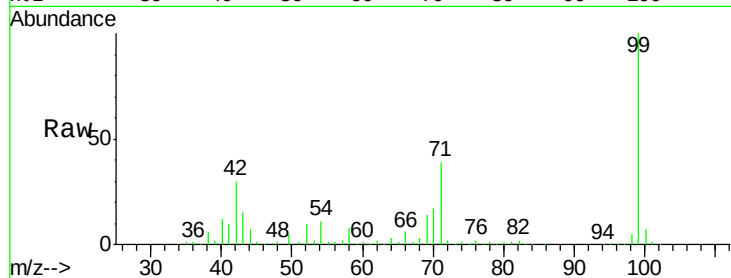
99 100

42 29.5 13.6 20.4#

71 39.0 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Tgt Ion: 136 Resp: 614231

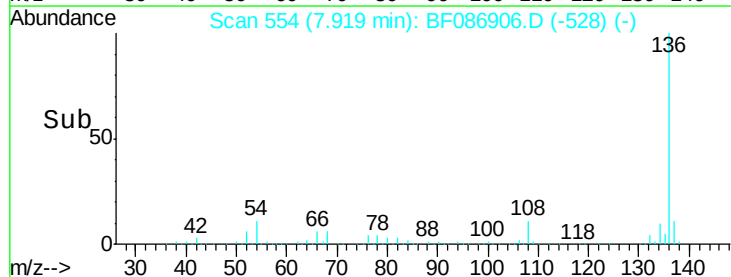
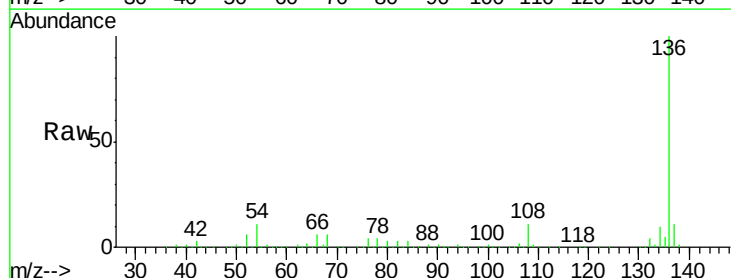
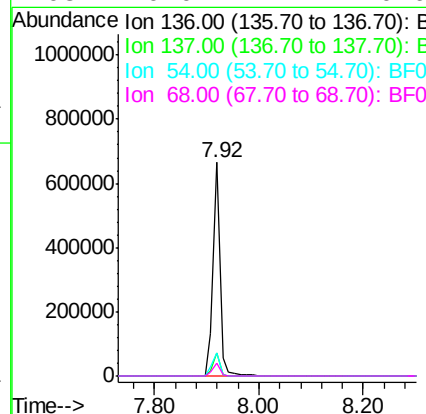
Ion Ratio Lower Upper

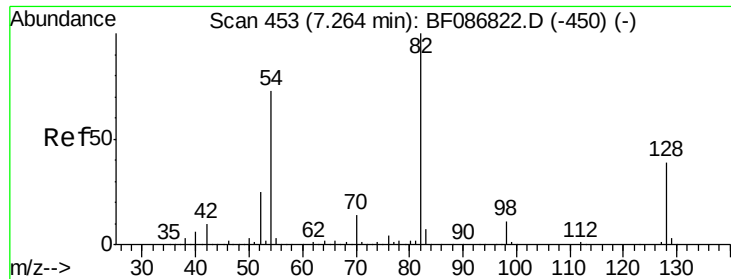
136 100

137 11.0 8.8 13.2

54 10.6 5.0 7.4#

68 6.0 4.4 6.6





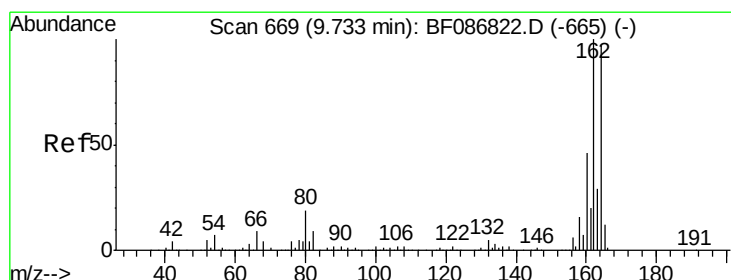
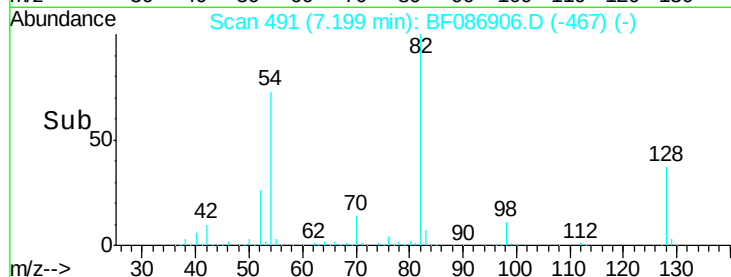
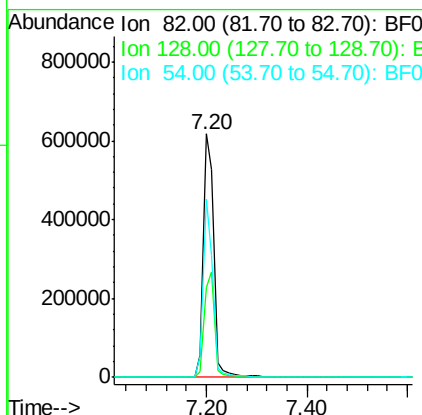
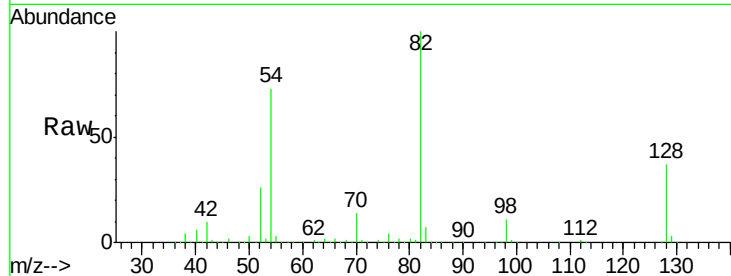
#23  
 Nitrobenzene-d5  
 Concen: 73.30 ng  
 RT: 7.20 min Scan# 491  
 Delta R.T. -0.02 min  
 Lab File: BF086906.D  
 Acq: 12 May 2016 00:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 896634 |       |       |
| 128     | 37.1  | 40.6   | 61.0# |       |
| 54      | 73.4  | 38.1   | 57.1# |       |

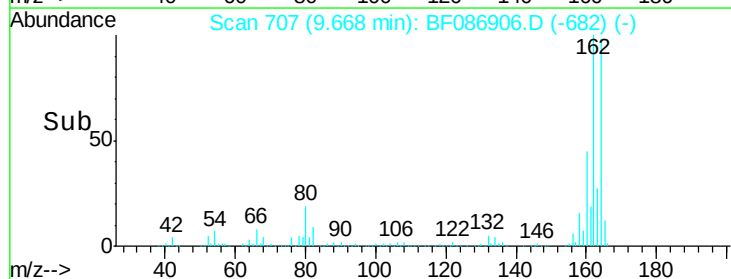
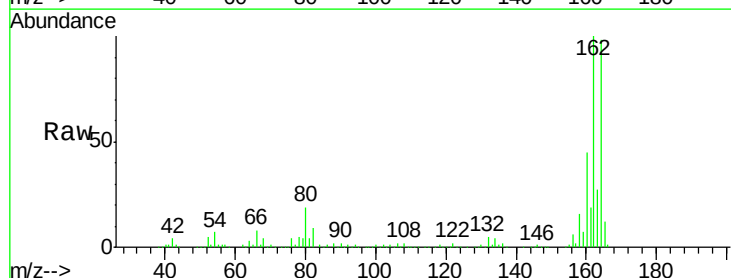
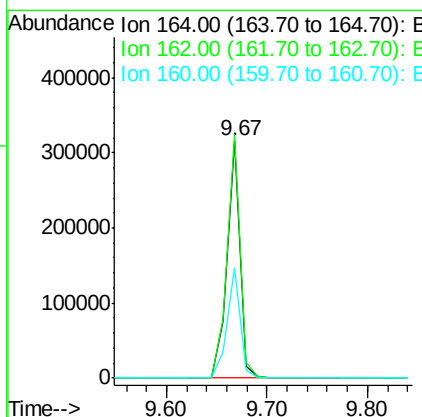
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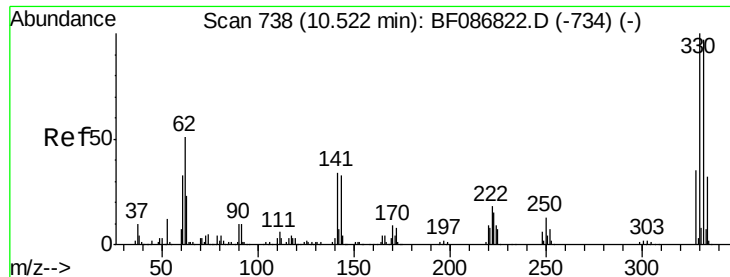
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.67 min Scan# 707  
 Delta R.T. -0.01 min  
 Lab File: BF086906.D  
 Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 284806 |       |       |
| 162     | 102.4 | 82.8   | 124.2 |       |
| 160     | 46.5  | 36.9   | 55.3  |       |





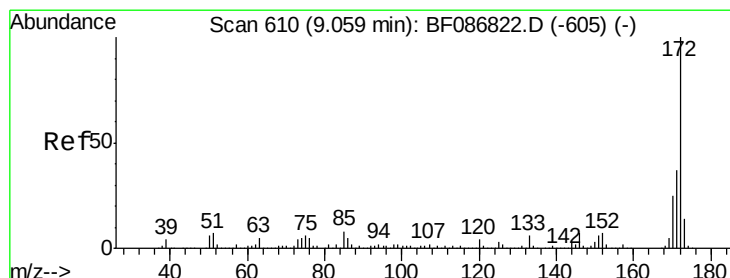
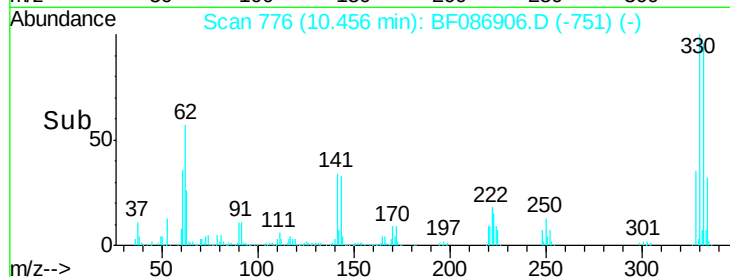
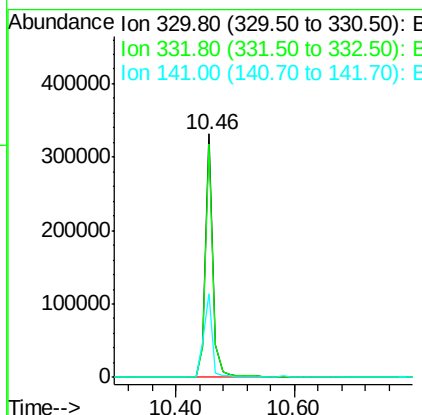
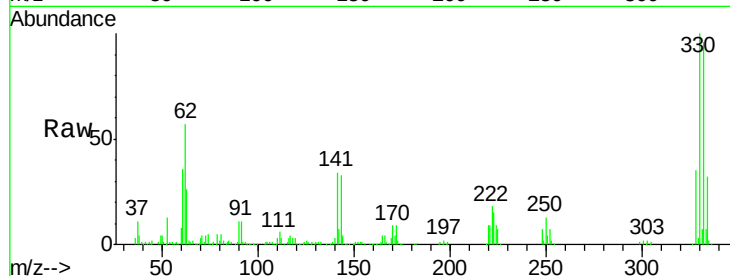
#41  
 2,4,6-Tribromophenol  
 Concen: 101.97 ng  
 RT: 10.46 min Scan# 776  
 Delta R.T. -0.01 min  
 Lab File: BF086906.D  
 Acq: 12 May 2016 00:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 307466 |       |       |
| 332     | 96.0  | 79.0   | 118.4 |       |
| 141     | 39.5  | 31.2   | 46.8  |       |

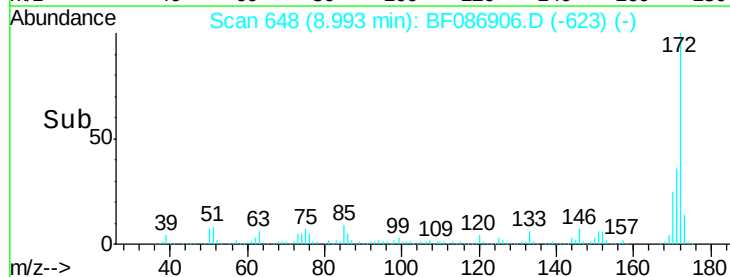
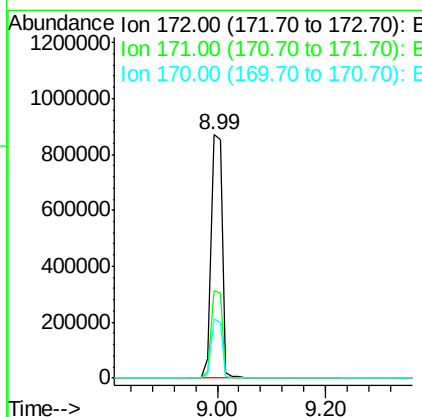
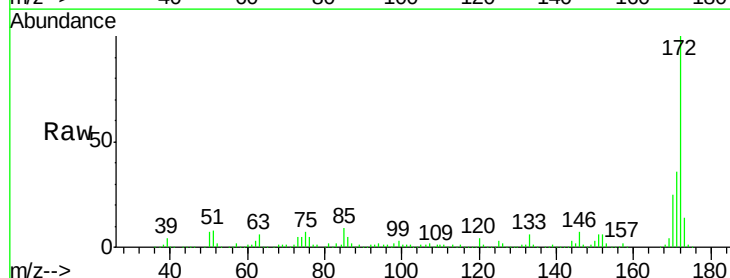
Manual Integrations  
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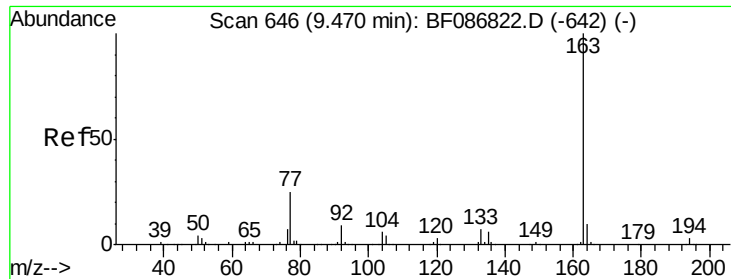
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#44  
 2-Fluorobiphenyl  
 Concen: 74.82 ng  
 RT: 8.99 min Scan# 648  
 Delta R.T. -0.01 min  
 Lab File: BF086906.D  
 Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1267906 |       |       |
| 171     | 35.9  | 29.0    | 43.6  |       |
| 170     | 24.6  | 19.8    | 29.8  |       |





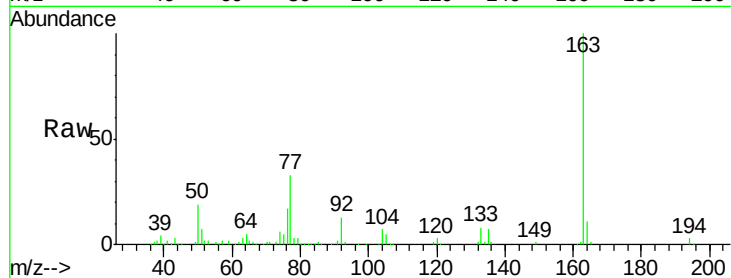
#49  
Dimethylphthalate  
Concen: 10.77 ng  
RT: 9.39 min Scan# 683  
Delta R.T. -0.02 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

Instrument :  
BNA\_F  
ClientSampleId :  
S-1

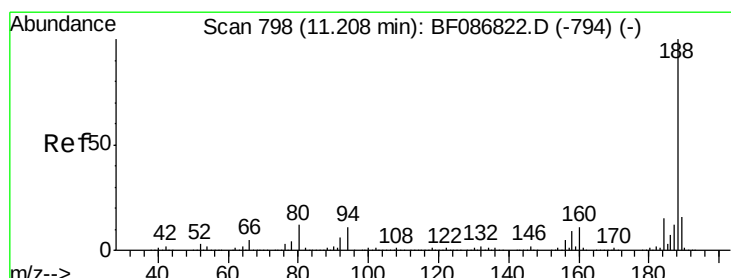
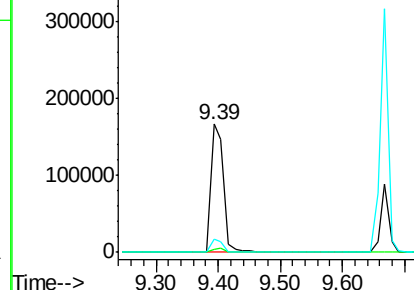
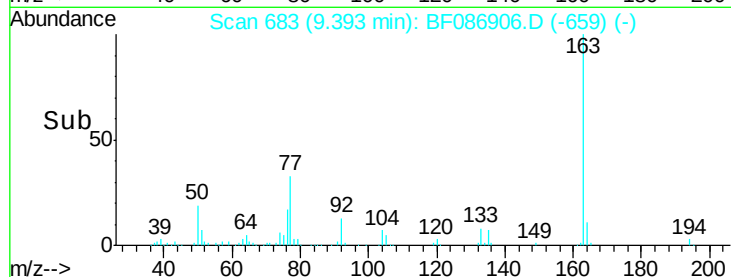
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 233930 |       |       |
| 194     | 2.7   | 2.6    | 4.0   |       |
| 164     | 10.7  | 8.2    | 12.4  |       |

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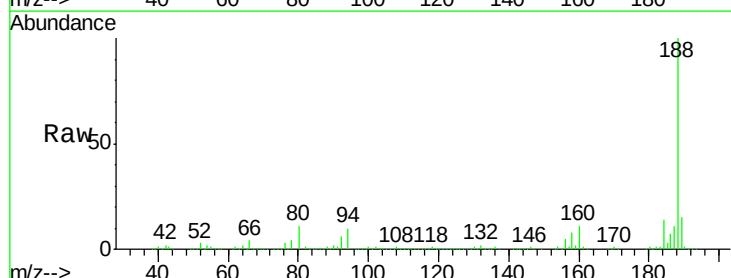


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

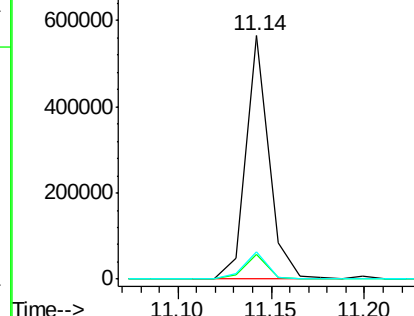
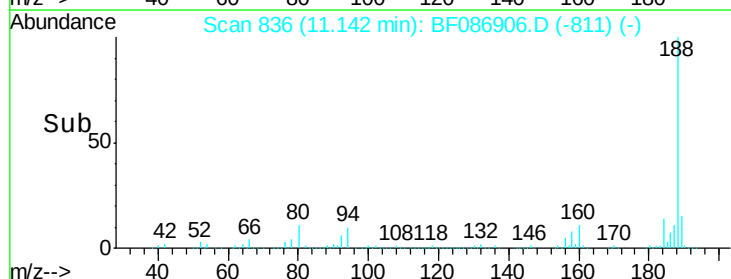


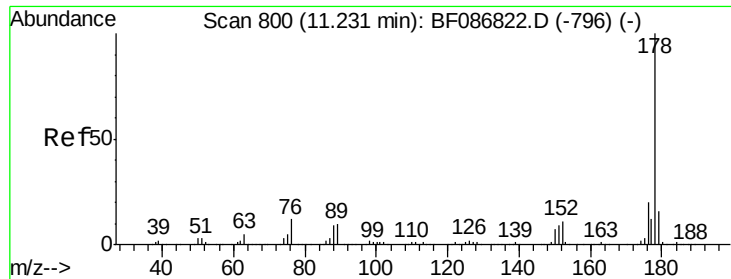
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.14 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 486145 |       |       |
| 94      | 10.2  | 6.8    | 10.2# |       |
| 80      | 11.1  | 7.1    | 10.7# |       |



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





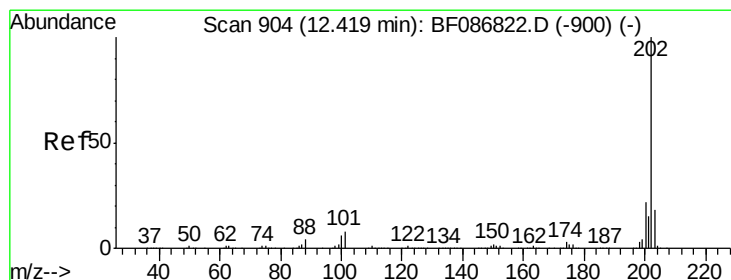
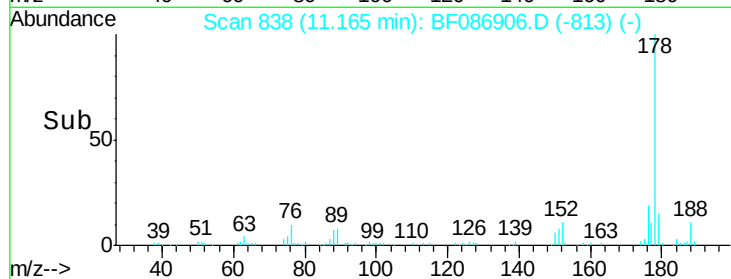
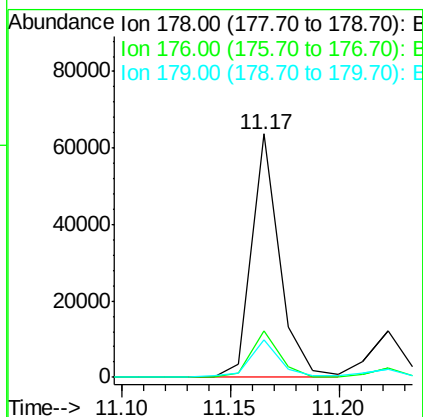
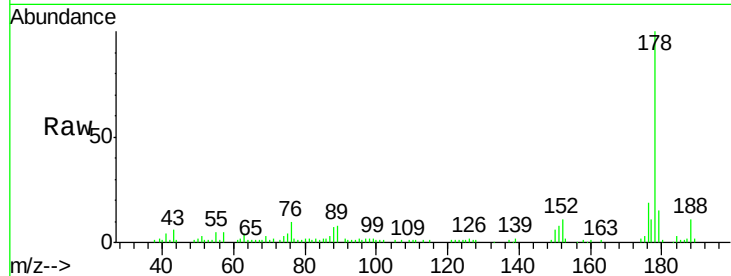
#70  
Phenanthrene  
Concen: 2.19 ng  
RT: 11.17 min Scan# 838  
Delta R.T. -0.01 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

Instrument :  
BNA\_F  
ClientSampleId :  
S-1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.0  | 24.0  |
| 179     | 15.4  | 12.6  | 18.8  |

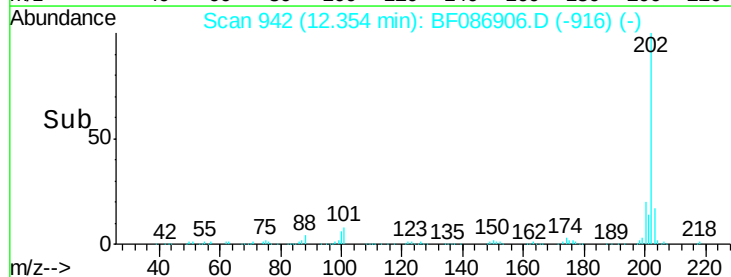
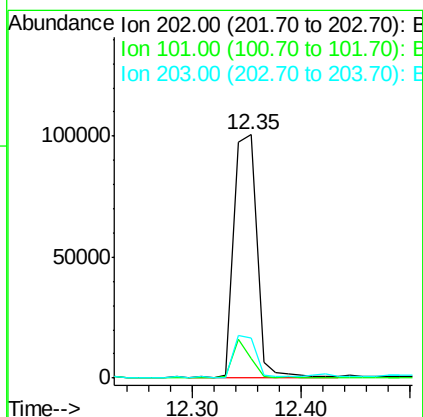
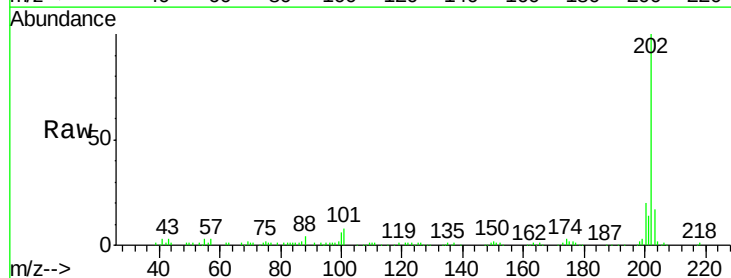
Manual Integrations  
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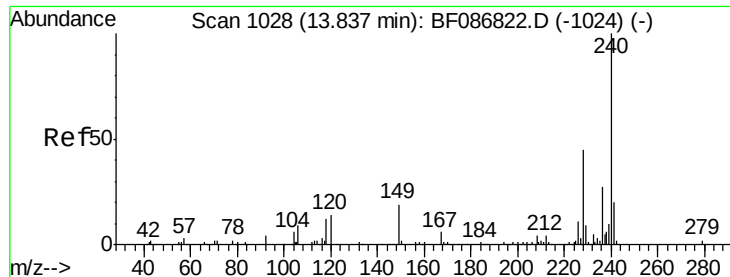


#74  
Fluoranthene  
Concen: 5.50 ng  
RT: 12.35 min Scan# 942  
Delta R.T. 0.00 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.9   | 0.0   | 35.4  |
| 203     | 16.6  | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Instrument :

BNA\_F

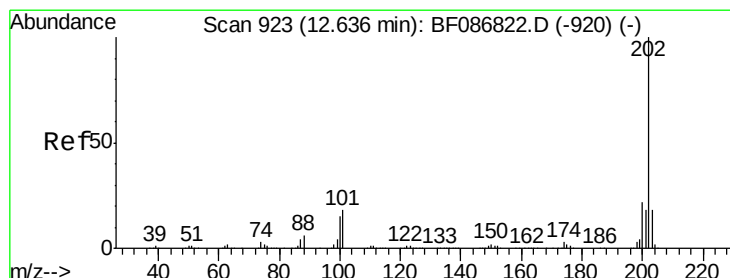
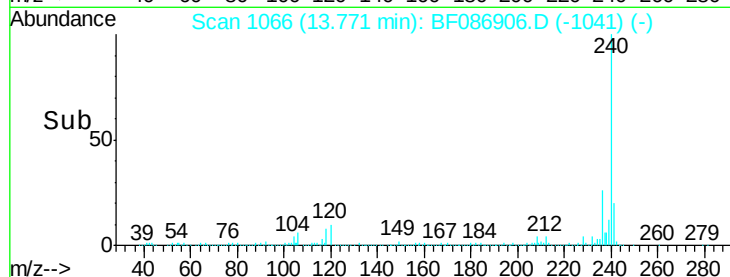
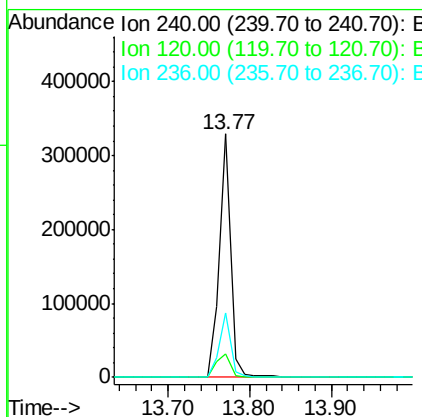
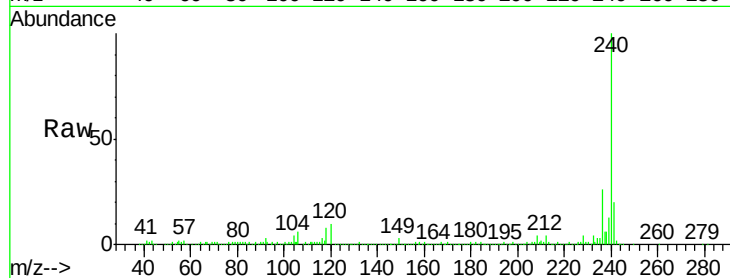
ClientSampled :

S-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 319708 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 9.6   | 11.2  | 16.8#  |
| 236       | 26.2  | 21.2  | 31.8   |

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#77

Pyrene

Concen: 5.47 ng

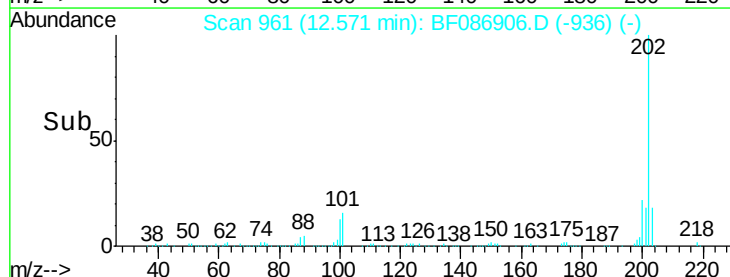
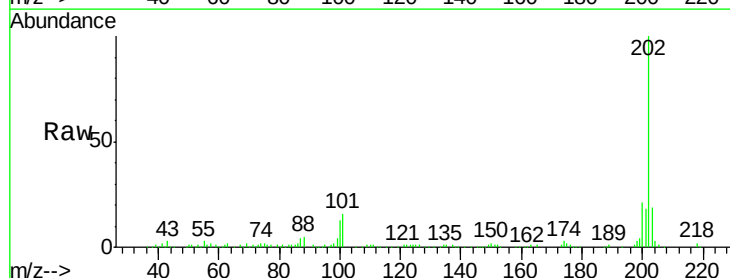
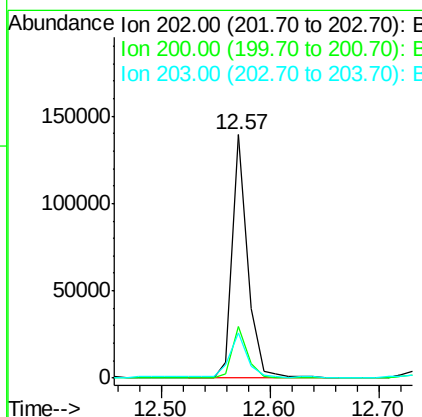
RT: 12.57 min Scan# 961

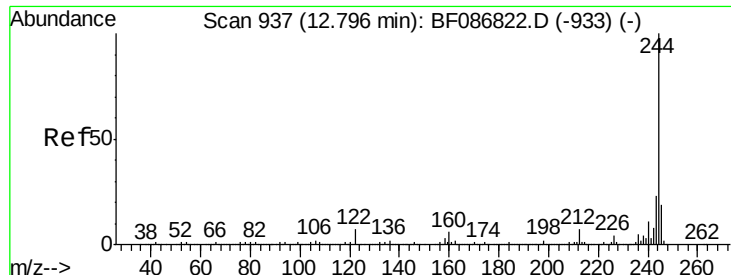
Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 133801 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.7  | 26.5   |
| 203       | 18.7  | 14.2  | 21.4   |





#78

Terphenyl-d14

Concen: 64.48 ng

RT: 12.73 min Scan# 975

Delta R.T. 0.00 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Instrument :

BNA\_F

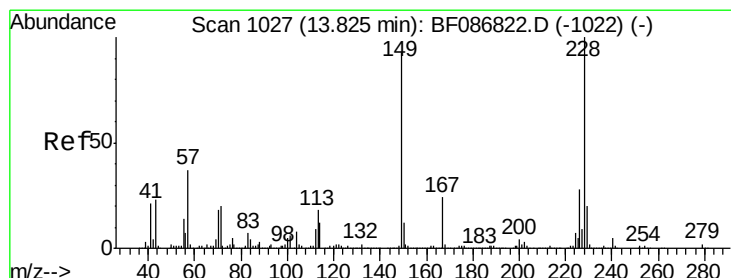
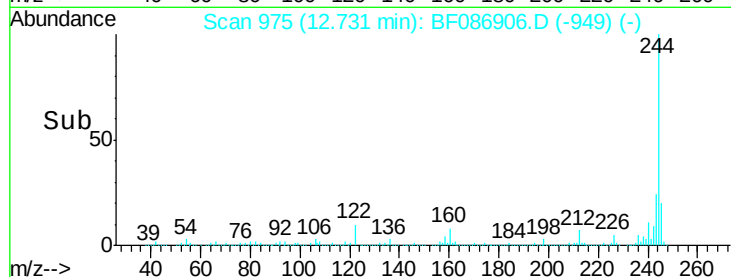
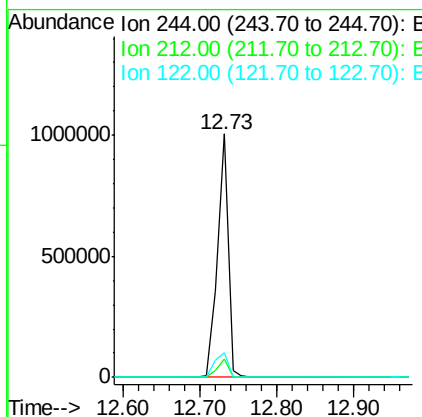
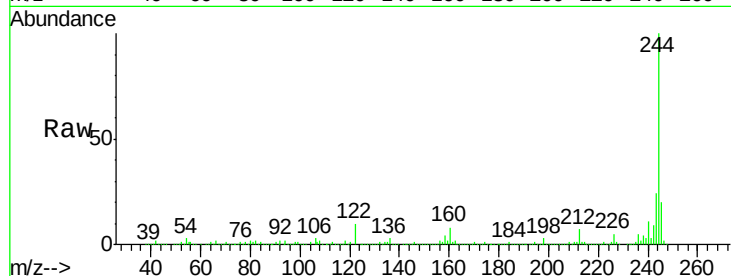
ClientSampled :

S-1

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 971567 |       |       |
| 212     | 7.5   | 6.2    | 9.2   |       |
| 122     | 10.0  | 12.0   | 18.0  |       |

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#80

Benzo(a)anthracene

Concen: 4.54 ng

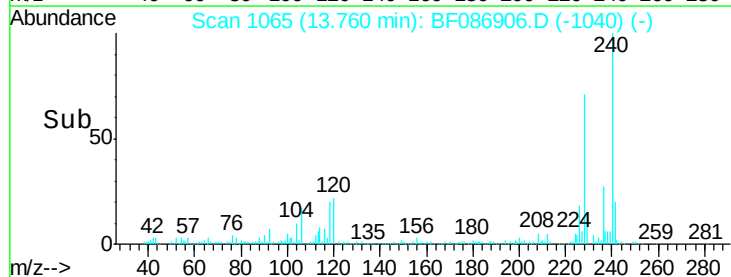
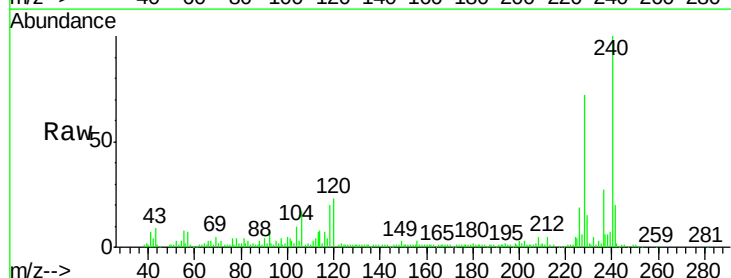
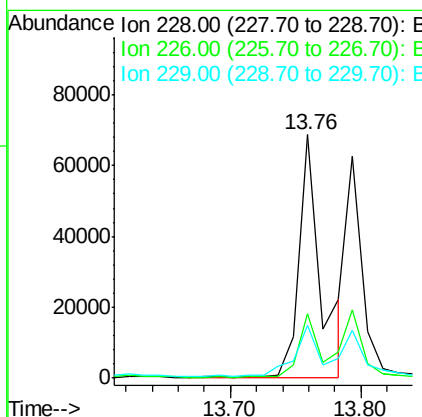
RT: 13.76 min Scan# 1065

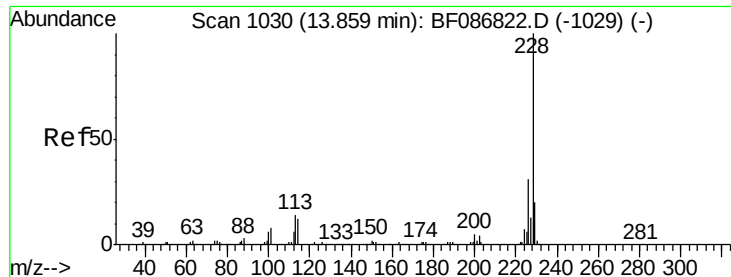
Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 81535 |       |       |
| 226     | 26.6  | 22.5  | 33.7  |       |
| 229     | 21.6  | 16.6  | 25.0  |       |





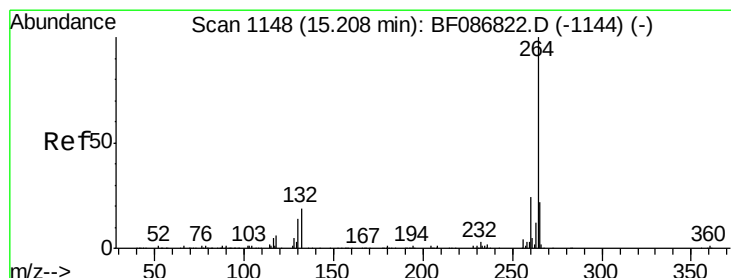
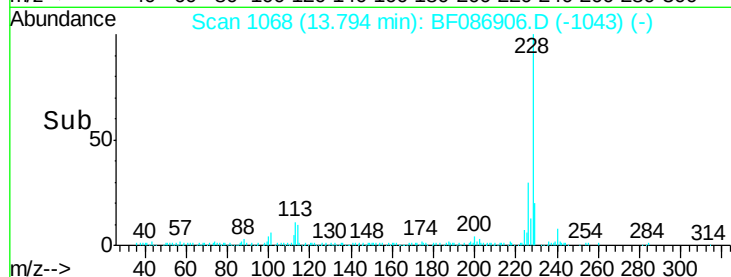
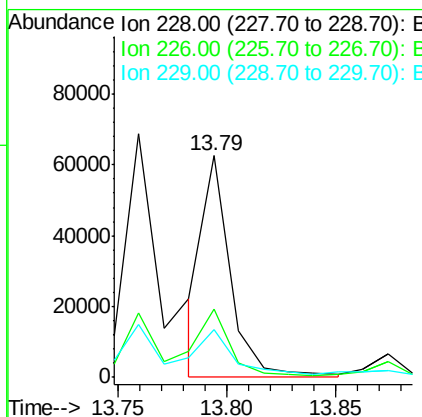
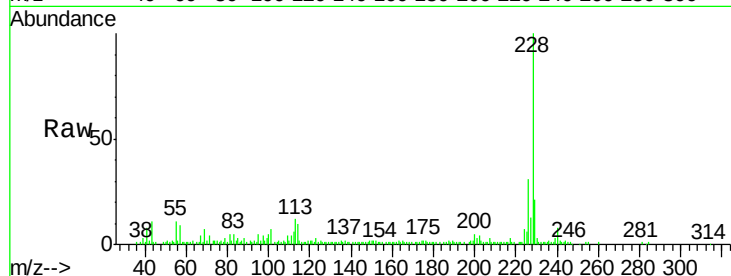
#82  
Chrysene  
Concen: 3.04 ng  
RT: 13.79 min Scan# 1068  
Delta R.T. -0.01 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

Instrument :  
BNA\_F  
ClientSampled :  
S-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 55423 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.7  | 24.4  | 36.6  |
| 229       | 21.4  | 15.8  | 23.8  |

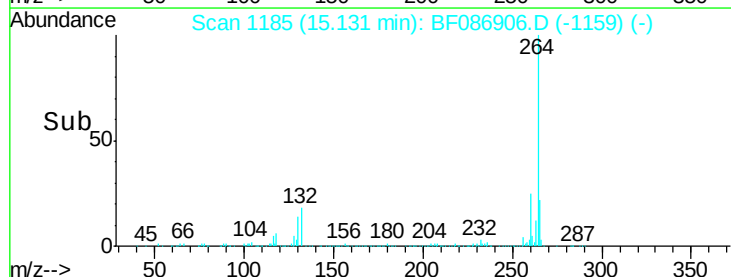
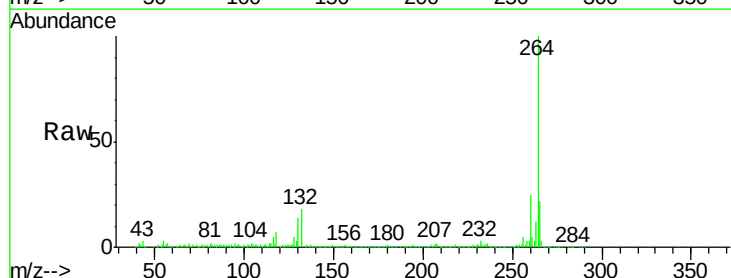
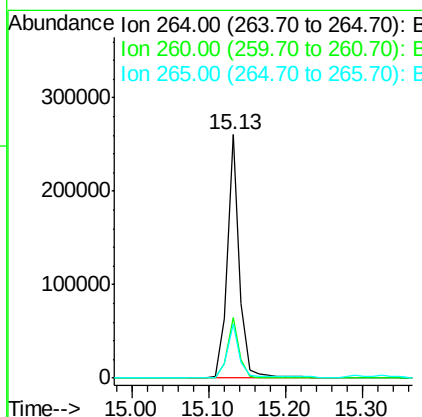
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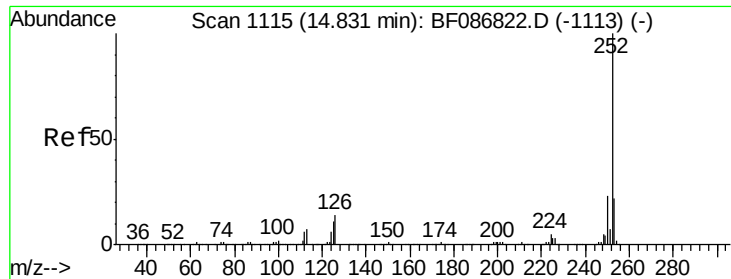
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.13 min Scan# 1185  
Delta R.T. 0.00 min  
Lab File: BF086906.D  
Acq: 12 May 2016 00:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 294537 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.8  | 19.5  | 29.3   |
| 265       | 22.0  | 17.3  | 25.9   |





#87

Benzo(b)fluoranthene

Concen: 4.82 ng m

RT: 14.77 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Instrument :

BNA\_F

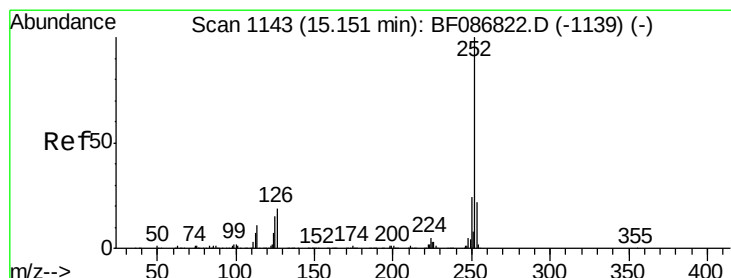
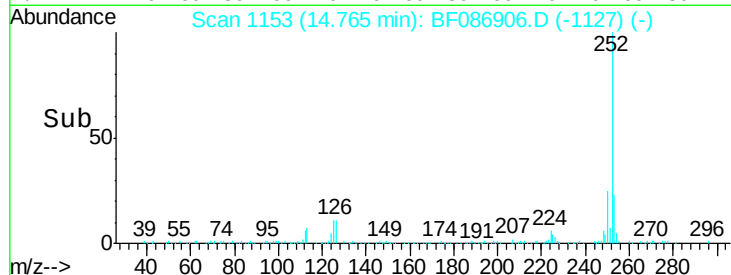
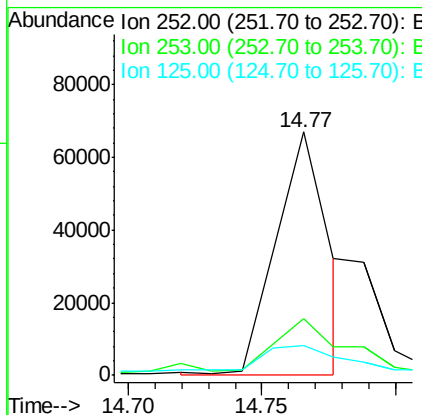
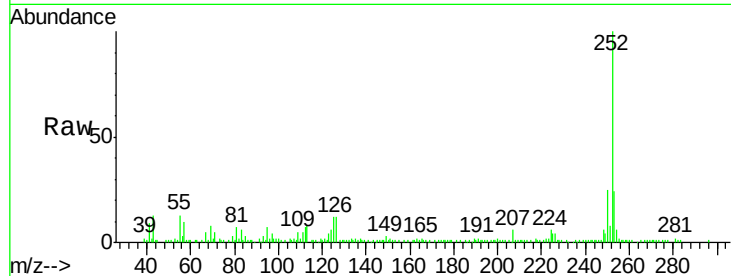
ClientSampled :

S-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 92312 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.6  | 17.8  | 26.6  |
| 125       | 12.4  | 11.4  | 17.0  |

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#89

Benzo(a)pyrene

Concen: 3.61 ng

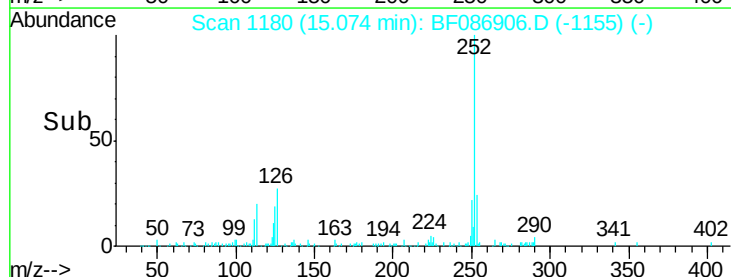
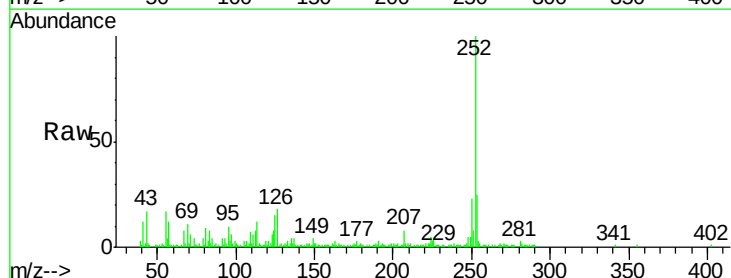
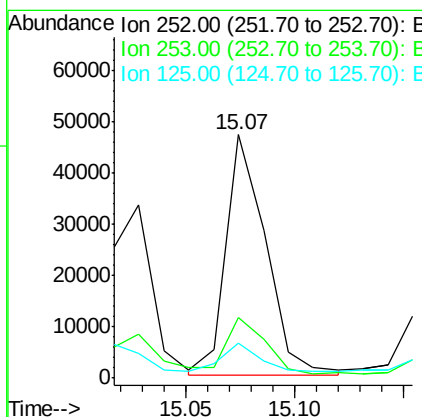
RT: 15.07 min Scan# 1180

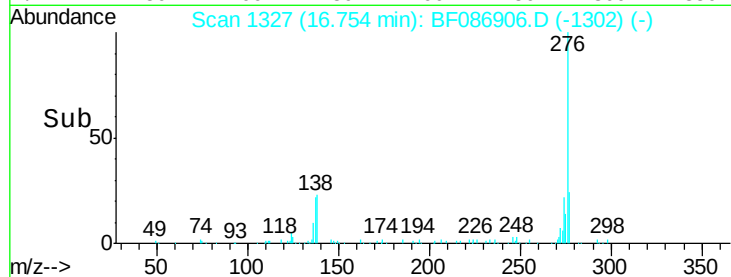
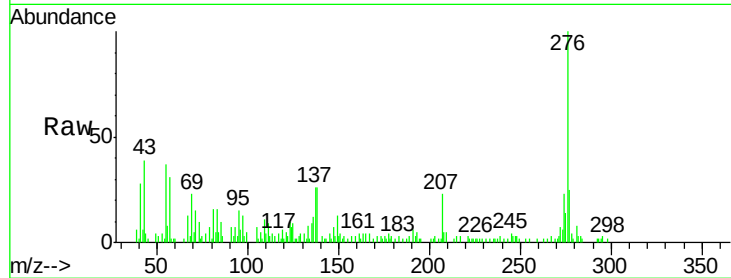
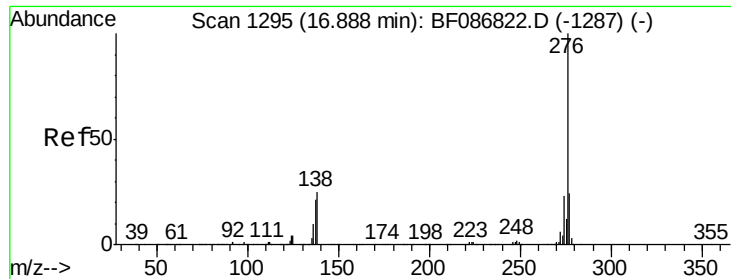
Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 59608 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 17.2  | 25.8  |
| 125       | 14.5  | 9.0   | 13.6# |





#91

Benzo(g,h,i)perylene

Concen: 2.61 ng

RT: 16.75 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF086906.D

Acq: 12 May 2016 00:00

Instrument :

BNA\_F

ClientSampleId :

S-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 36908 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.4  | 19.6  | 29.4  |
| 138       | 25.8  | 23.6  | 35.4  |

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