

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\  
 Data File : BF079146.D  
 Acq On : 12 May 2015 7:36  
 Operator : TP/IZ  
 Sample : G2176-07  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PS-29(3-5)

Manual Integrations  
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 5/12/2015 4:51:27 PM

Quant Time: May 12 15:19:37 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 12 06:55:06 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.30  | 152  | 48995    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.88  | 136  | 208918   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.05 | 164  | 110164   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.90 | 188  | 216100   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 16.19 | 240  | 215800   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 17.93 | 264  | 232621   | 20.00 | ng    | 0.05     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 381104   | 133.89 | ng    | 0.00     |
| 7) Phenol-d6                | 6.87  | 99   | 548029   | 145.66 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.99  | 82   | 296743   | 81.63  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.03 | 330  | 164657   | 138.16 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.22 | 172  | 609704   | 77.11  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.89 | 244  | 726815   | 80.63  | ng    | 0.00     |

| Target Compounds         | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------|-------|------|----------|------|-------|--------|
| 49) Dimethylphthalate    | 10.73 | 163  | 31905    | 3.95 | ng    | # 98   |
| 74) Fluoranthene         | 14.41 | 202  | 65592    | 5.21 | ng    | 93     |
| 77) Pyrene               | 14.69 | 202  | 63769    | 5.13 | ng    | 96     |
| 79) Butylbenzylphthalate | 15.51 | 149  | 53561    | 9.85 | ng    | 95     |
| 80) Benzo(a)anthracene   | 16.18 | 228  | 38545    | 3.26 | ng    | # 91   |
| 82) Chrysene             | 16.23 | 228  | 25067    | 2.21 | ng    | # 91   |
| 87) Benzo(b)fluoranthene | 17.49 | 252  | 54596m   | 4.29 | ng    |        |
| 89) Benzo(a)pyrene       | 17.86 | 252  | 37444m   | 3.19 | ng    |        |
| 91) Benzo(g,h,i)perylene | 19.84 | 276  | 27937    | 2.24 | ng    | # 77   |

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

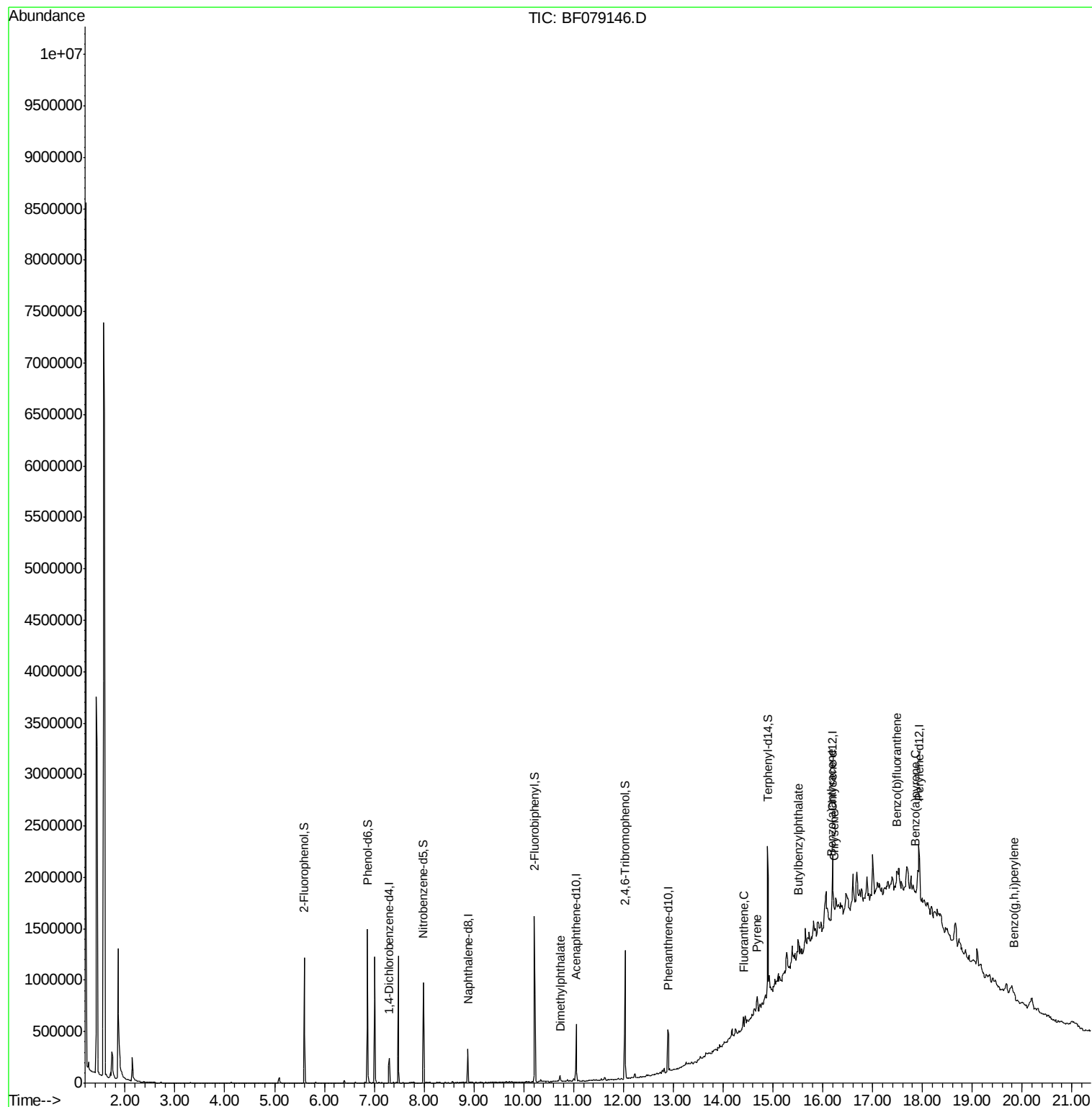
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\  
Data File : BF079146.D  
Acq On : 12 May 2015 7:36  
Operator : TP/IZ  
Sample : G2176-07  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

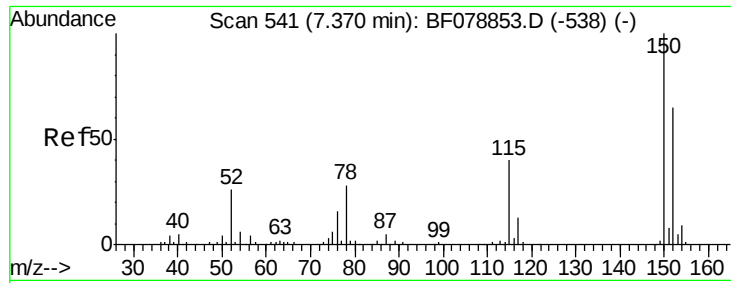
Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

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Quant Time: May 12 15:19:37 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 12 06:55:06 2015  
Response via : Initial Calibration





#1

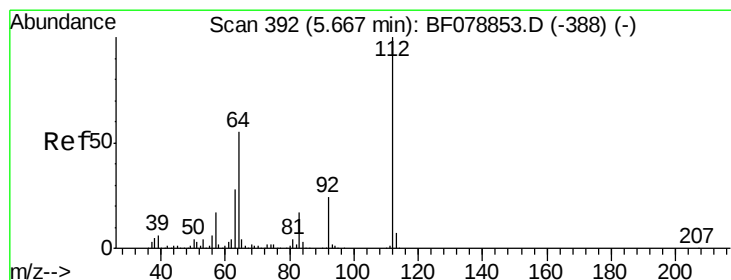
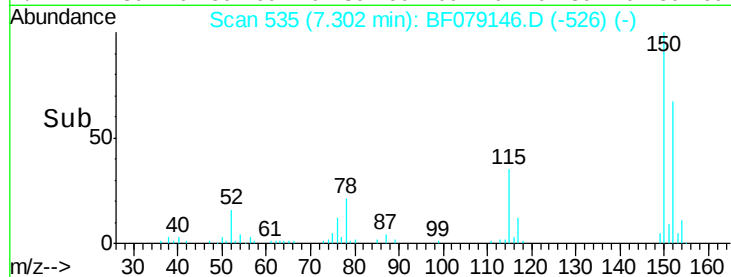
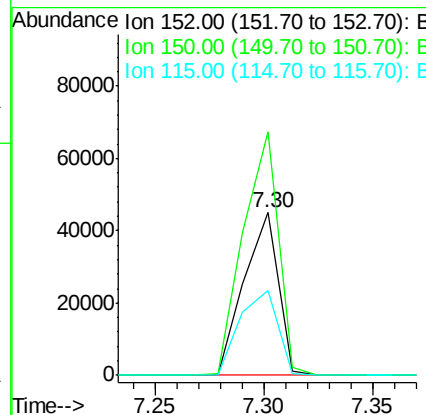
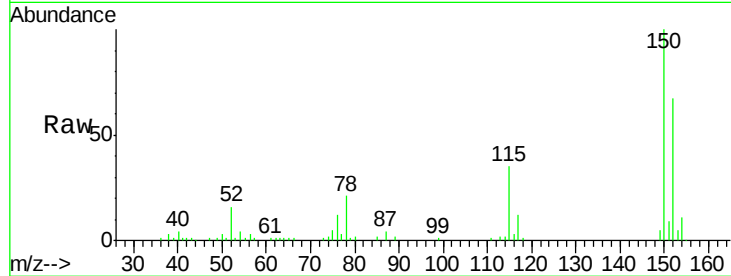
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.30 min Scan# 535  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.5 | 122.0 | 183.0 |
| 115     | 52.4  | 46.3  | 69.5  |

Manual Integrations  
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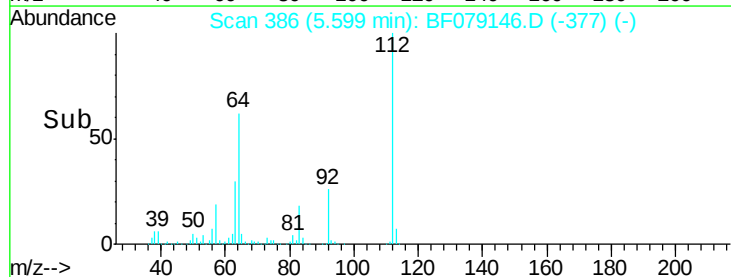
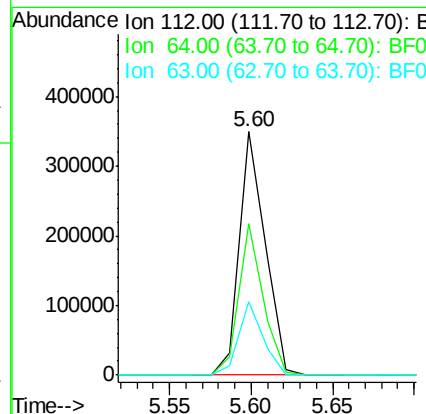
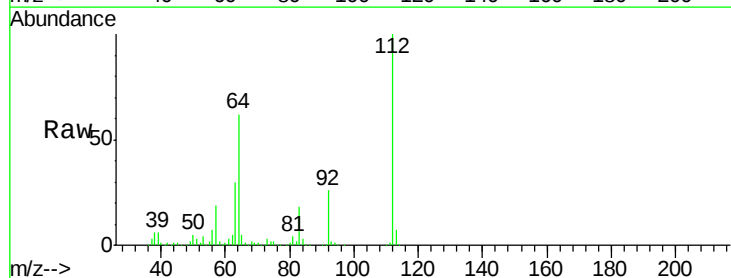
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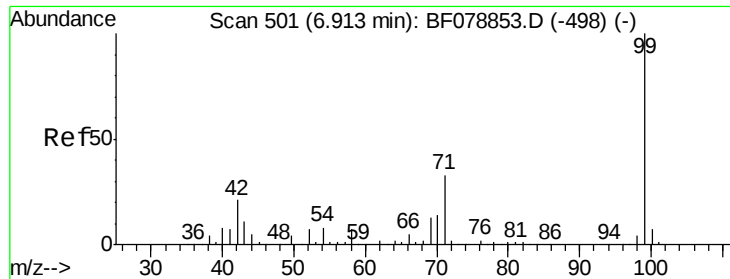


#5

2-Fluorophenol  
Concen: 133.89 ng  
RT: 5.60 min Scan# 386  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.1  | 53.5  | 80.3  |
| 63      | 30.1  | 27.5  | 41.3  |





#7

Phenol-d6

Concen: 145.66 ng

RT: 6.87 min Scan# 497

Delta R.T. 0.01 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

Instrument :

BNA\_F

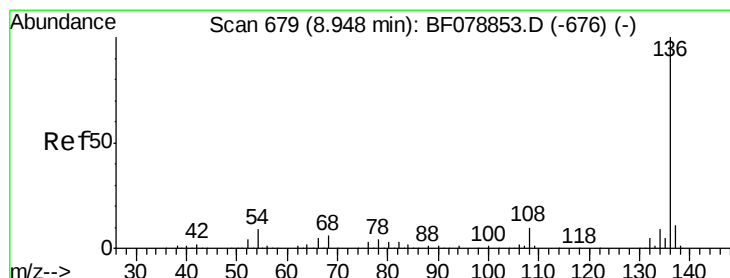
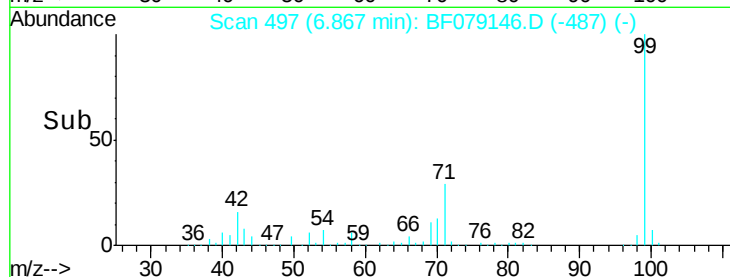
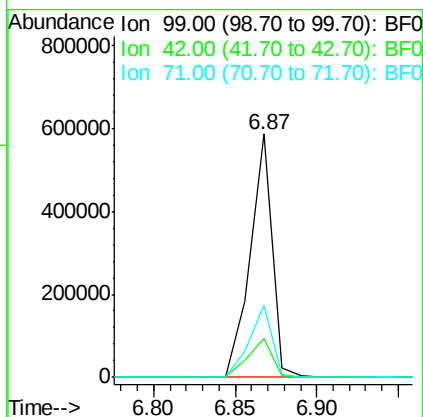
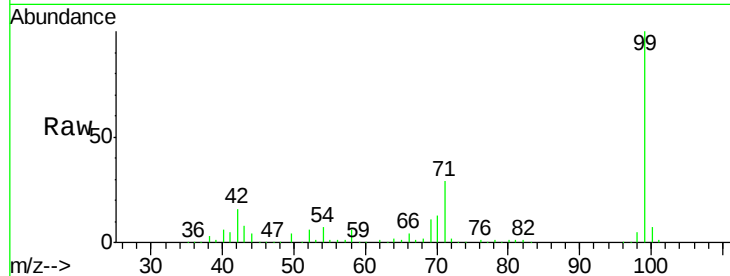
ClientSampleId :

PS-29(3-5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 548029 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.7  | 12.8  | 19.2   |
| 71        | 29.4  | 23.4  | 35.2   |

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#21

Naphthalene-d8

Concen: 20.00 ng

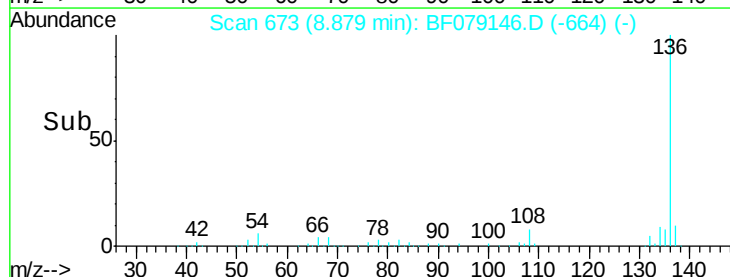
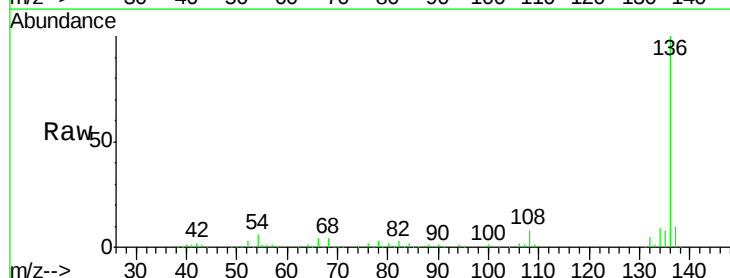
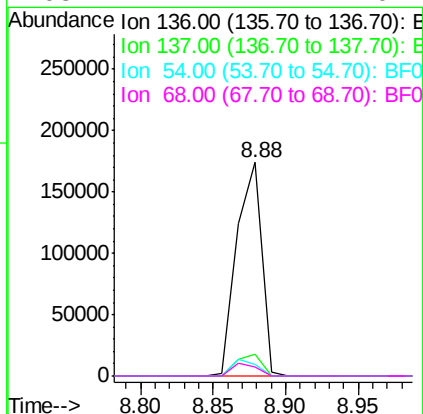
RT: 8.88 min Scan# 673

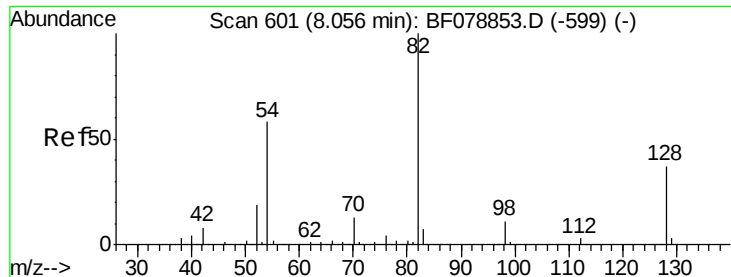
Delta R.T. -0.00 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 208918 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.4  | 8.7   | 13.1   |
| 54        | 5.5   | 5.8   | 8.8#   |
| 68        | 4.4   | 4.2   | 6.4    |





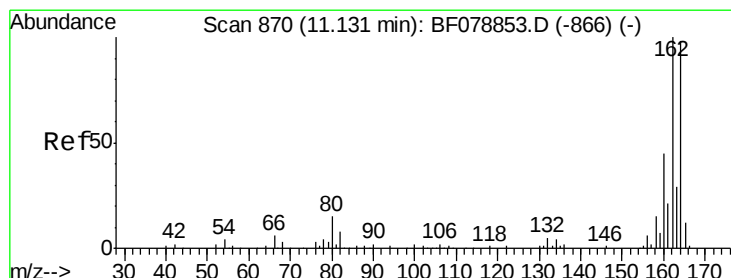
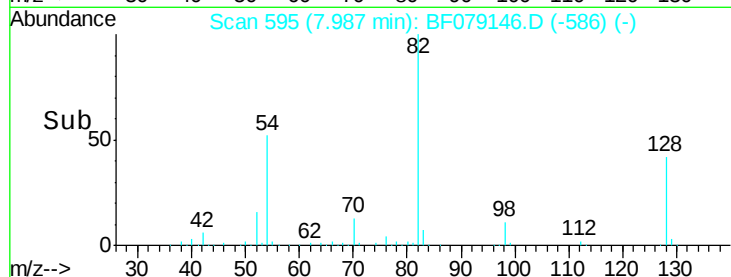
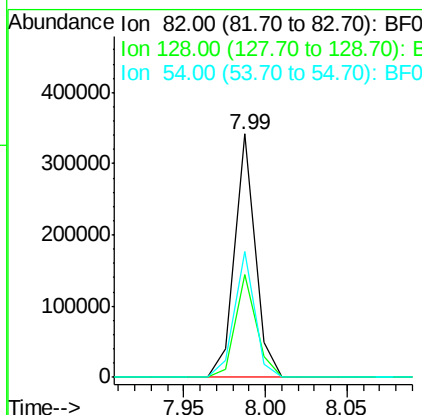
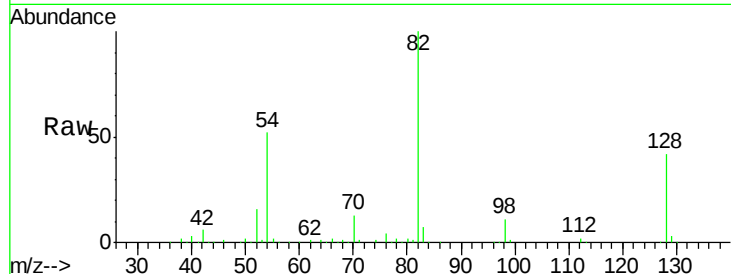
#23  
Nitrobenzene-d5  
Concen: 81.63 ng  
RT: 7.99 min Scan# 595  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 296743 |       |       |
| 128     | 42.2  | 30.0   | 45.0  |       |
| 54      | 51.9  | 46.4   | 69.6  |       |

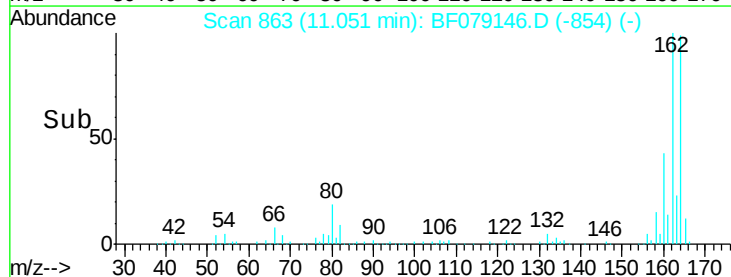
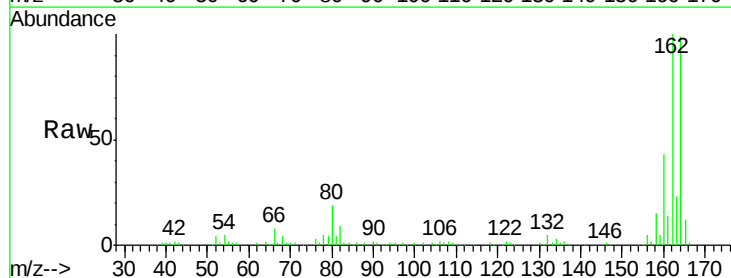
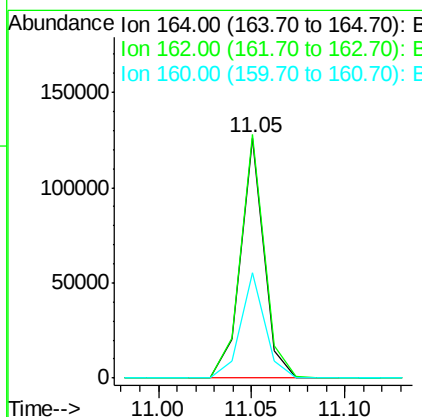
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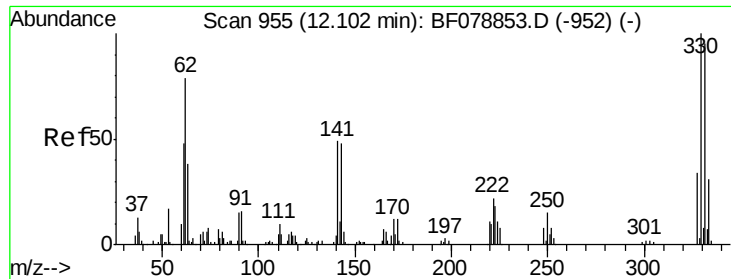
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 11.05 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 110164 |       |       |
| 162     | 101.5 | 82.7   | 124.1 |       |
| 160     | 43.8  | 35.8   | 53.8  |       |





#41

2,4,6-Tribromophenol

Concen: 138.16 ng

RT: 12.03 min Scan# 949

Delta R.T. -0.00 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

Instrument :

BNA\_F

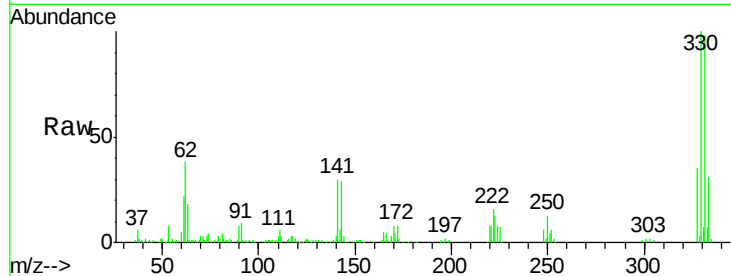
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PS-29(3-5)

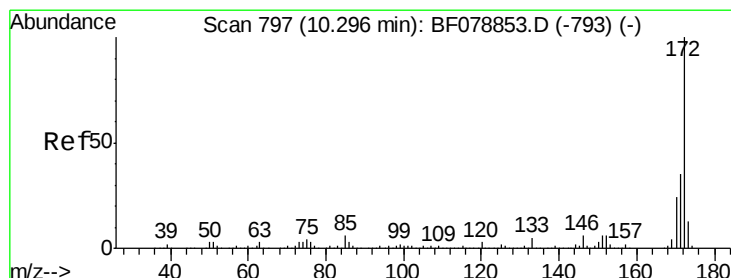
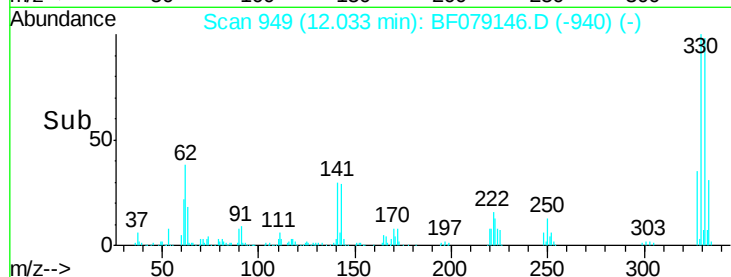
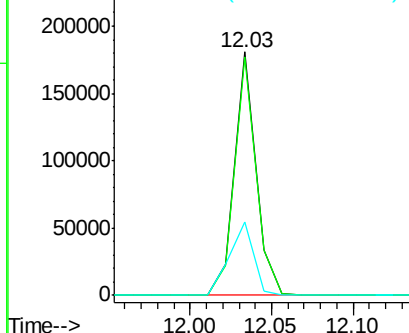
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 330  | Resp: | 164657 |
| Ion Ratio |      | Lower | Upper  |
| 330       | 100  |       |        |
| 332       | 98.0 | 0.0   | 0.0#   |
| 141       | 34.4 | 0.0   | 0.0#   |

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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: 77.11 ng

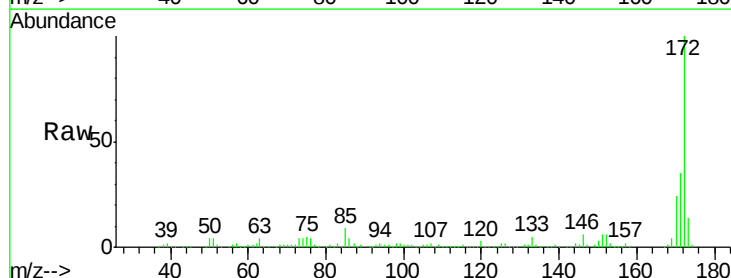
RT: 10.22 min Scan# 790

Delta R.T. -0.00 min

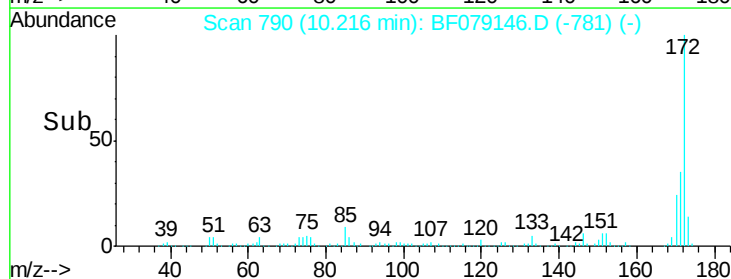
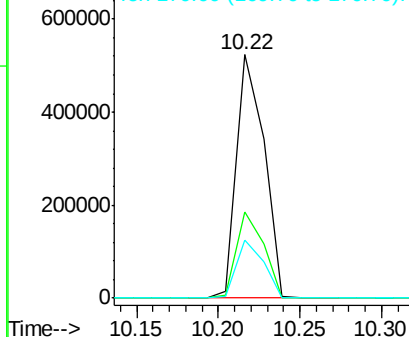
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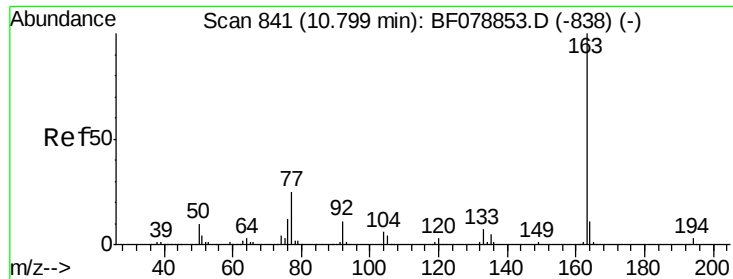
Acq: 12 May 2015 7:36

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 172  | Resp: | 609704 |
| Ion Ratio |      | Lower | Upper  |
| 172       | 100  |       |        |
| 171       | 35.3 | 27.9  | 41.9   |
| 170       | 24.0 | 19.4  | 29.0   |



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





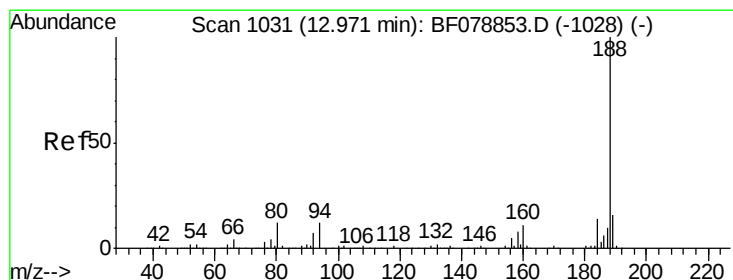
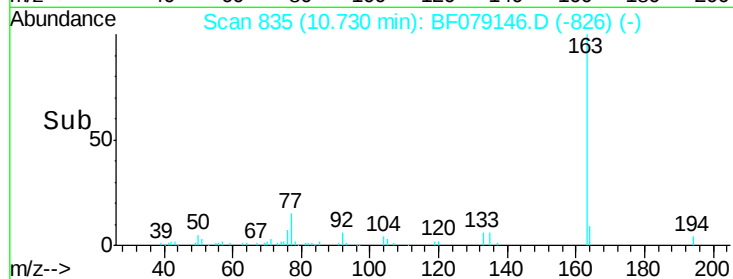
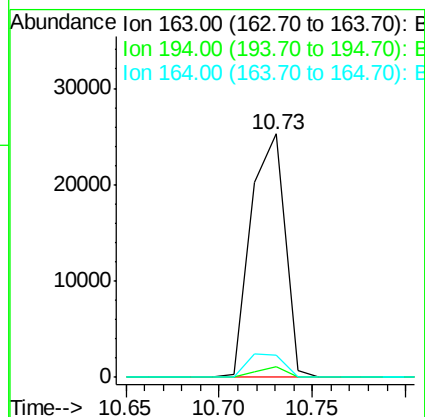
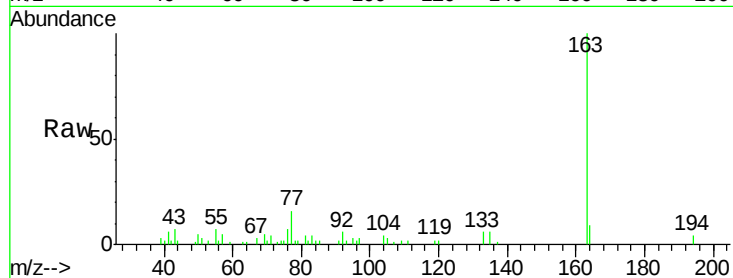
#49  
Dimethylphthalate  
Concen: 3.95 ng  
RT: 10.73 min Scan# 835  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 4.3   | 2.6        | 4.0#  |
| 164     | 9.3   | 8.1        | 12.1  |

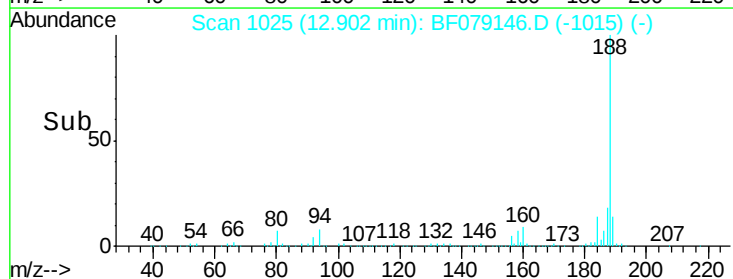
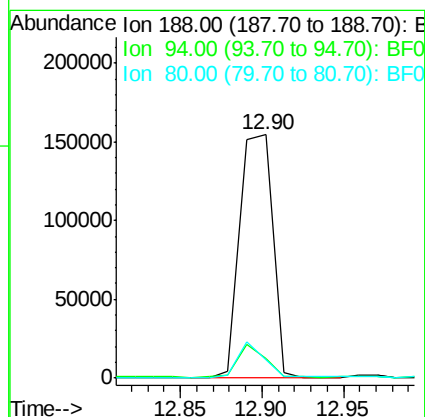
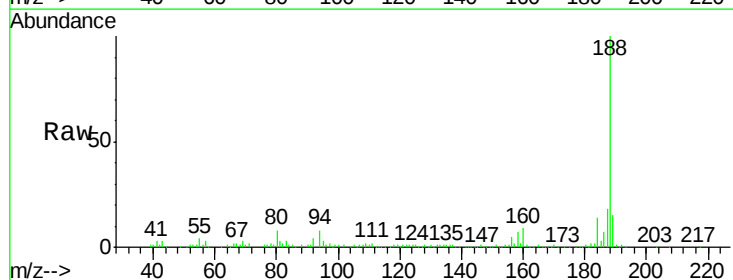
Manual Integrations  
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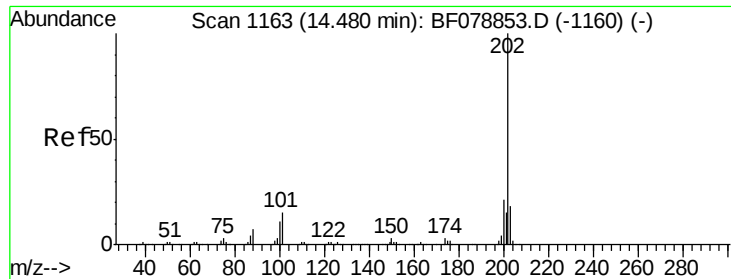
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.90 min Scan# 1025  
Delta R.T. 0.01 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.1   | 8.2        | 12.2# |
| 80      | 7.6   | 8.9        | 13.3# |





#74

Fluoranthene

Concen: 5.21 ng

RT: 14.41 min Scan# 1157

Delta R.T. -0.00 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

Instrument :

BNA\_F

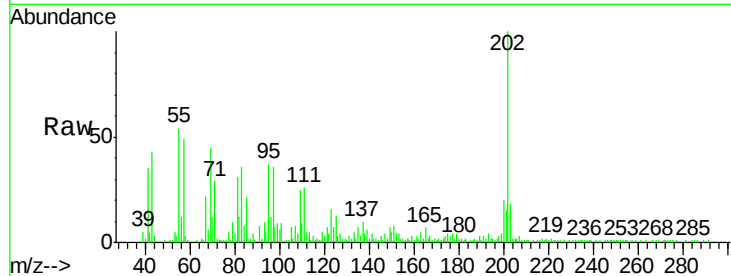
ClientSampleId :

PS-29(3-5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 65592 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.9   | 0.0   | 34.6  |
| 203       | 17.9  | 0.0   | 38.4  |

Manual Integrations  
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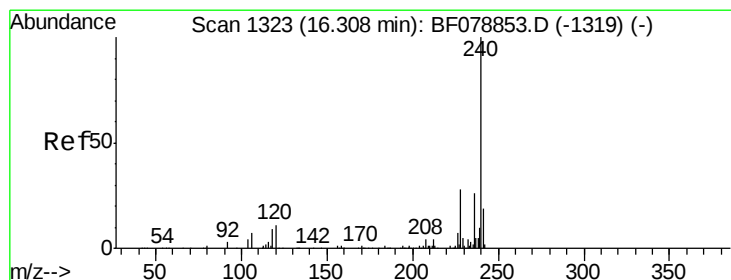
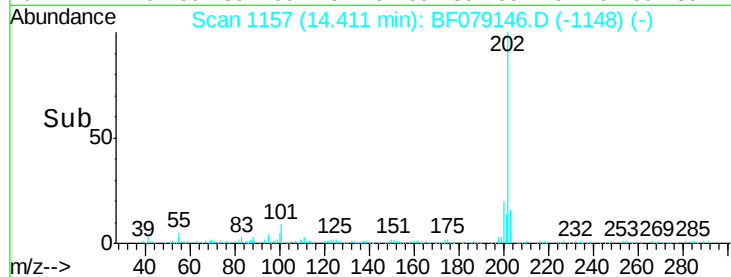
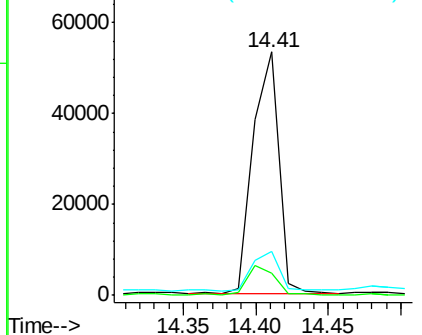
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.19 min Scan# 1313

Delta R.T. -0.00 min

Lab File: BF079146.D

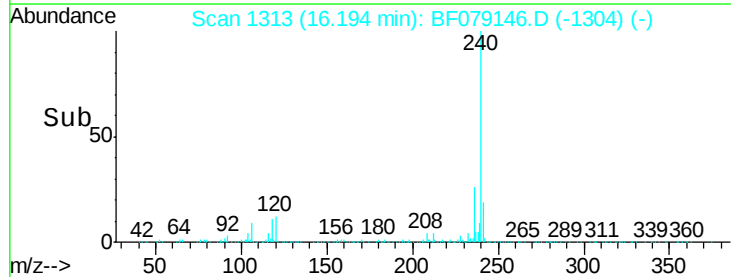
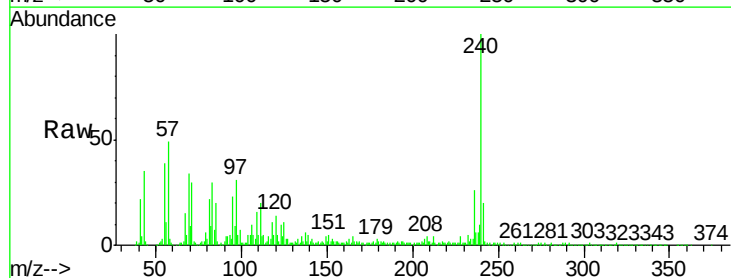
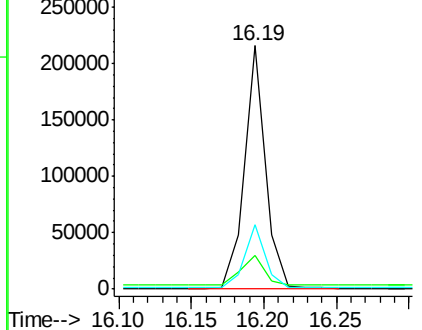
Acq: 12 May 2015 7:36

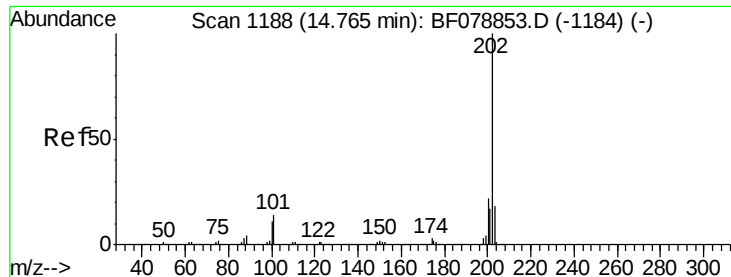
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 215800 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.0  | 9.7   | 14.5   |
| 236       | 26.3  | 20.2  | 30.4   |

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

Pvrene

Concen: 5.13 ng

RT: 14.69 min Scan# 1181

Delta R.T. -0.00 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

Instrument :

BNA\_F

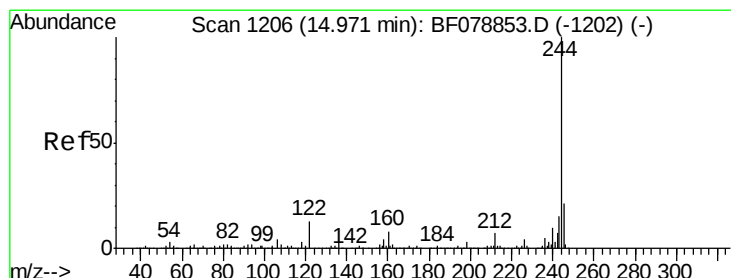
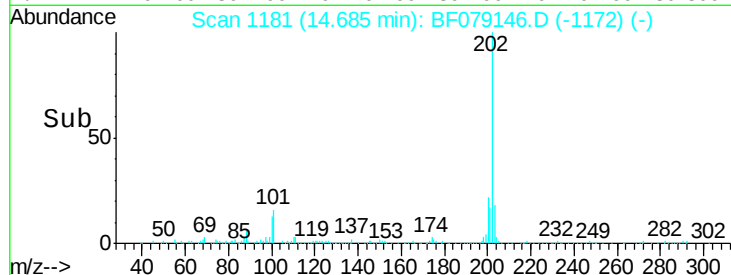
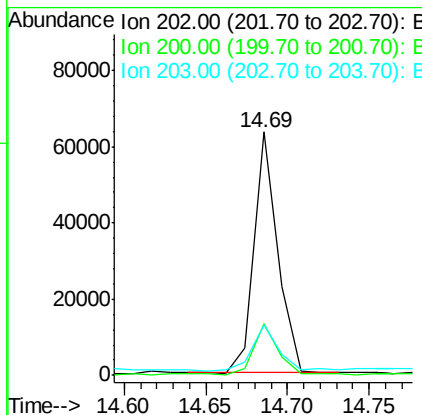
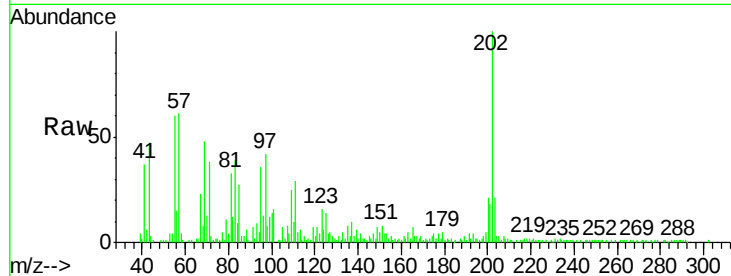
ClientSampleId :

PS-29(3-5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 63769 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.4  | 17.5  | 26.3  |
| 203       | 20.7  | 13.9  | 20.9  |

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#78

Terphenyl-d14

Concen: 80.63 ng

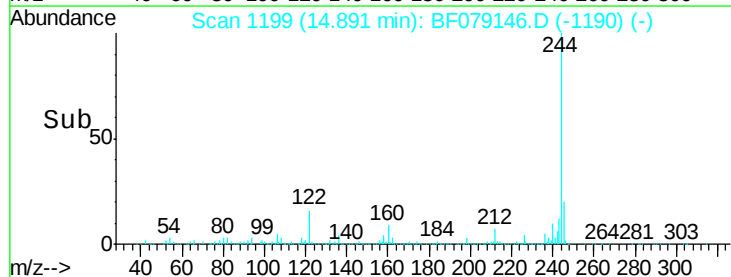
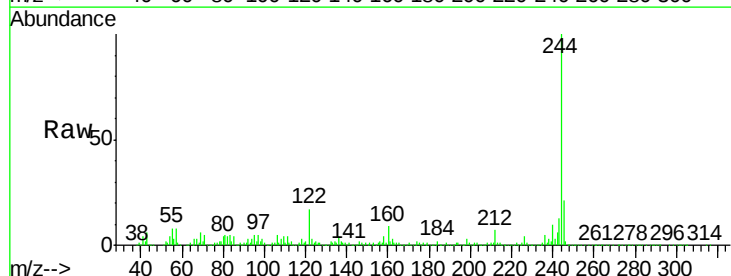
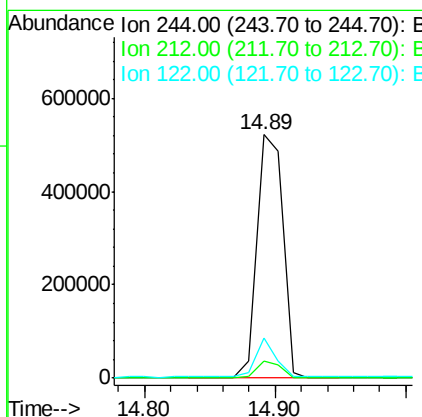
RT: 14.89 min Scan# 1199

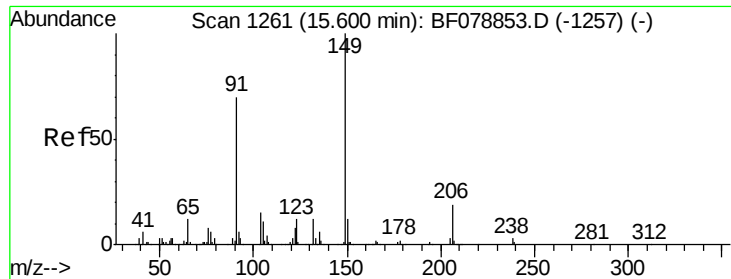
Delta R.T. -0.00 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 726815 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 5.6   | 8.4    |
| 122       | 16.7  | 10.3  | 15.5#  |





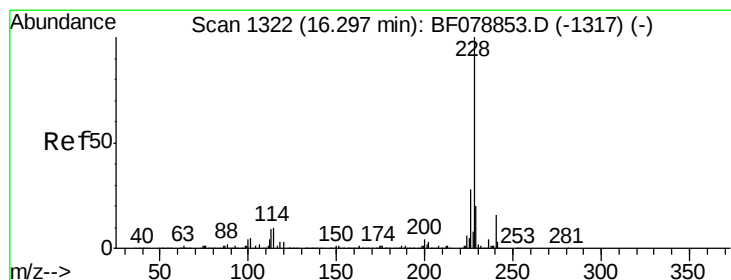
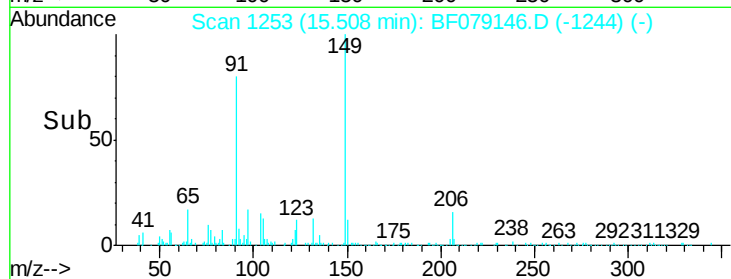
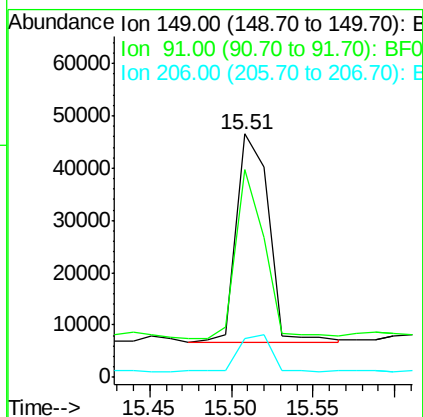
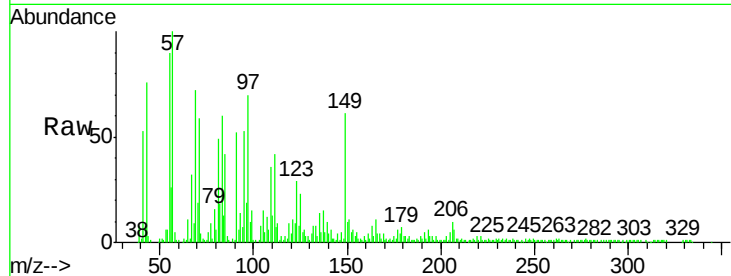
#79  
Butylbenzylphthalate  
Concen: 9.85 ng  
RT: 15.51 min Scan# 1253  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 149     | 100   |            |       |
| 91      | 85.6  | 64.6       | 97.0  |
| 206     | 15.8  | 12.2       | 18.4  |

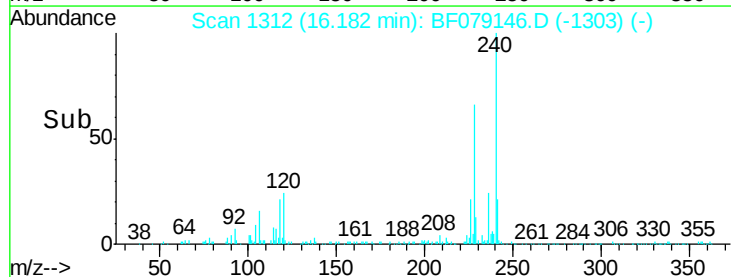
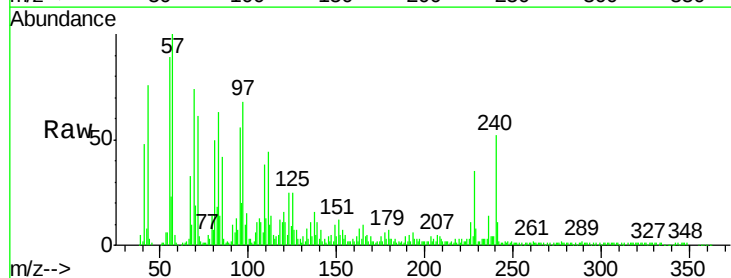
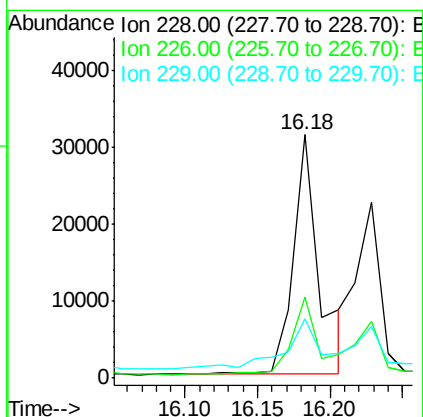
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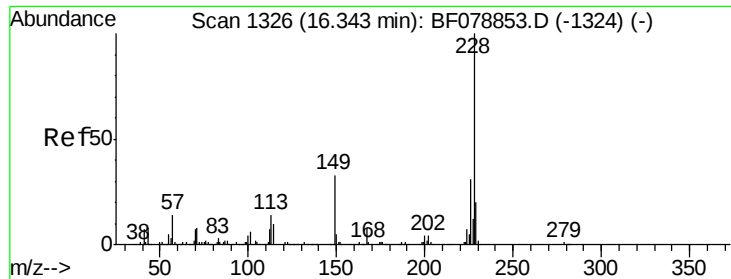
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#80  
Benzo(a)anthracene  
Concen: 3.26 ng  
RT: 16.18 min Scan# 1312  
Delta R.T. -0.00 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 33.1  | 22.6       | 33.8  |
| 229     | 24.2  | 15.9       | 23.9# |





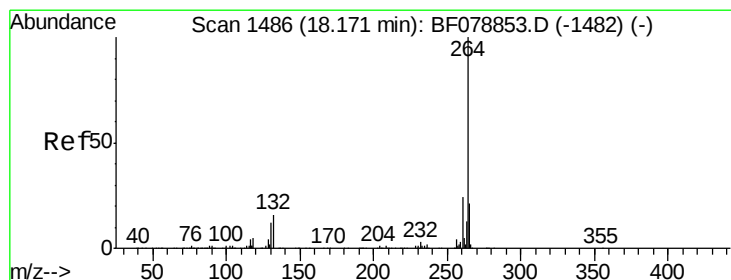
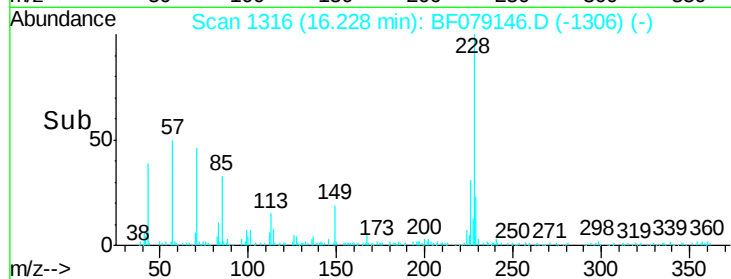
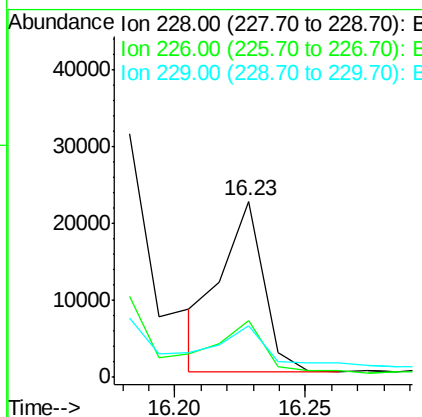
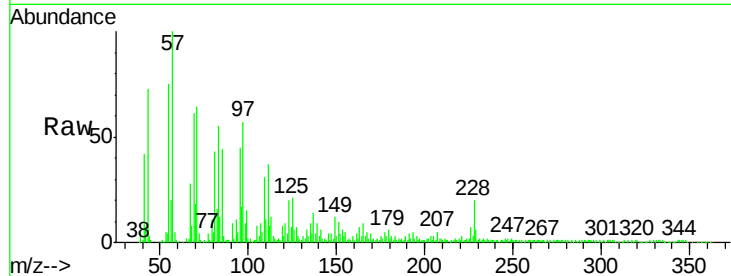
#82  
Chrysene  
Concen: 2.21 ng  
RT: 16.23 min Scan# 1316  
Delta R.T. 0.01 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

Instrument :  
BNA\_F  
ClientSampleId :  
PS-29(3-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.6  | 24.9  | 37.3  |
| 229     | 29.2  | 16.0  | 24.0  |

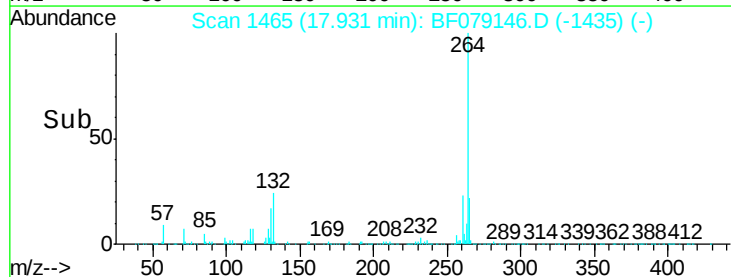
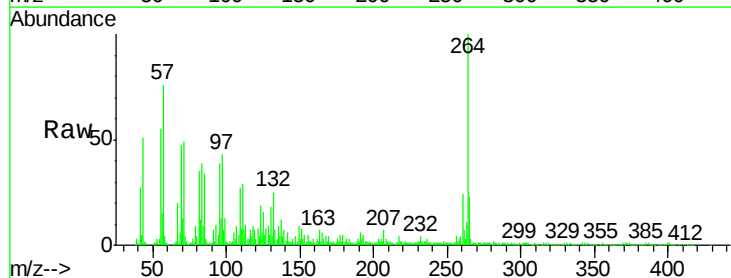
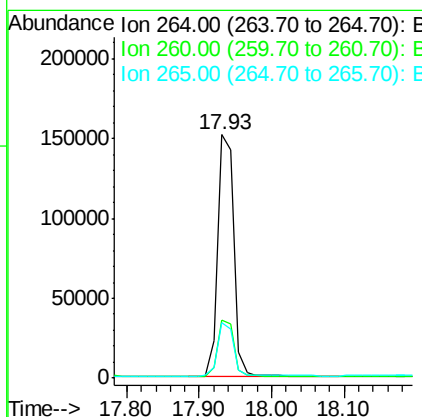
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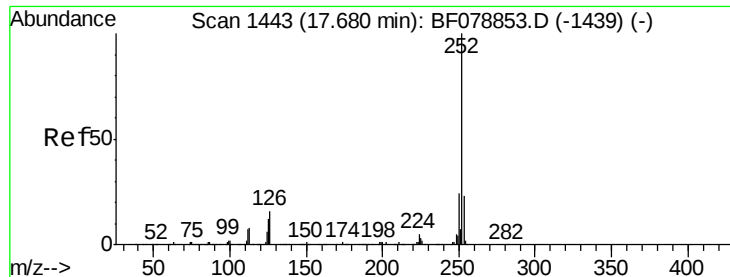
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.93 min Scan# 1465  
Delta R.T. 0.05 min  
Lab File: BF079146.D  
Acq: 12 May 2015 7:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.4  | 29.2  |
| 265     | 22.7  | 18.3  | 27.5  |





#87

Benzo(b)fluoranthene

Concen: 4.29 ng m

RT: 17.49 min Scan# 1426

Delta R.T. 0.03 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

Instrument :

BNA\_F

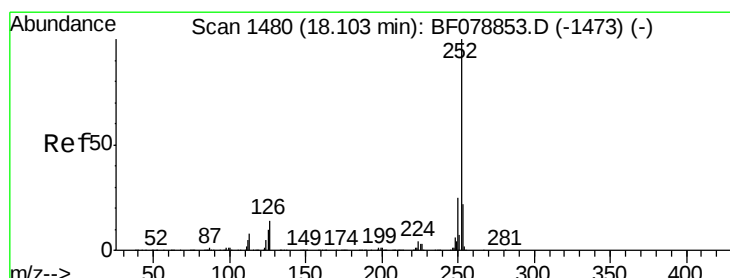
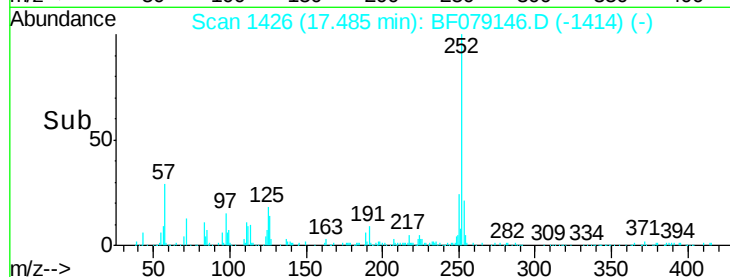
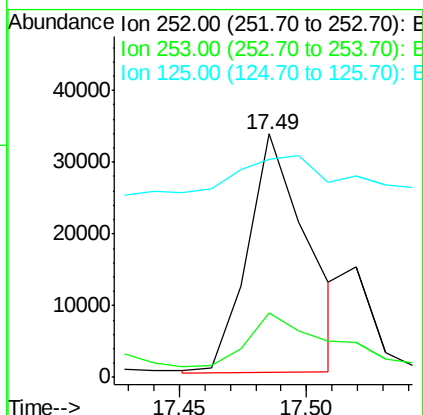
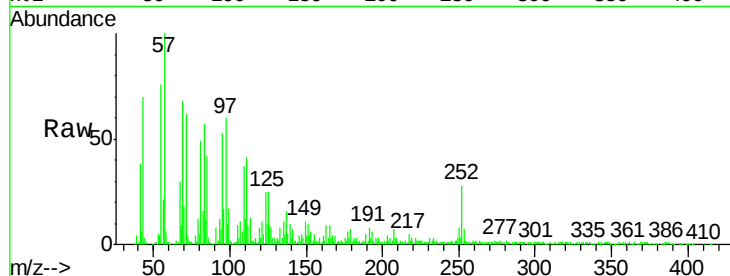
ClientSampleId :

PS-29(3-5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 54596 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.4  | 17.7  | 26.5  |
| 125       | 89.4  | 9.5   | 14.3# |

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#89

Benzo(a)pyrene

Concen: 3.19 ng m

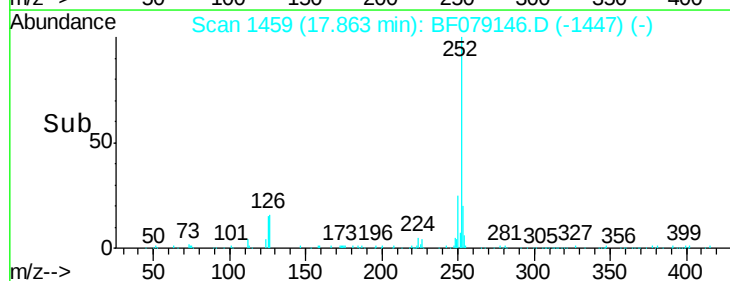
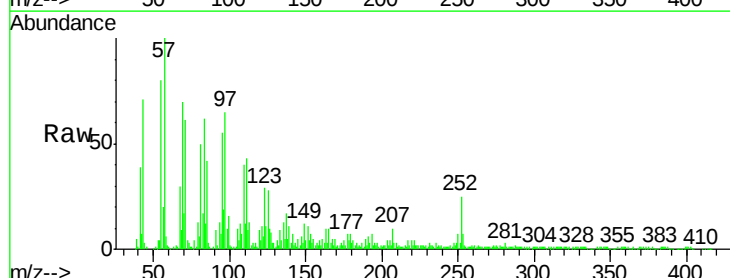
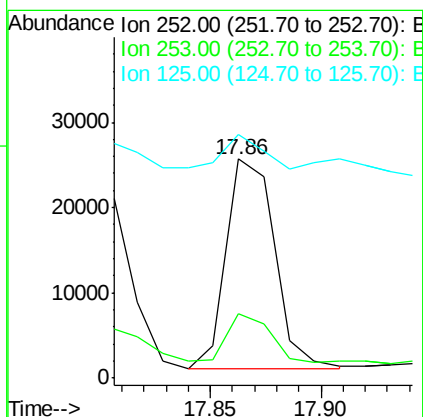
RT: 17.86 min Scan# 1459

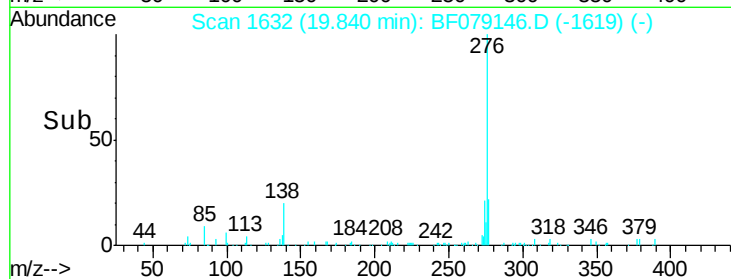
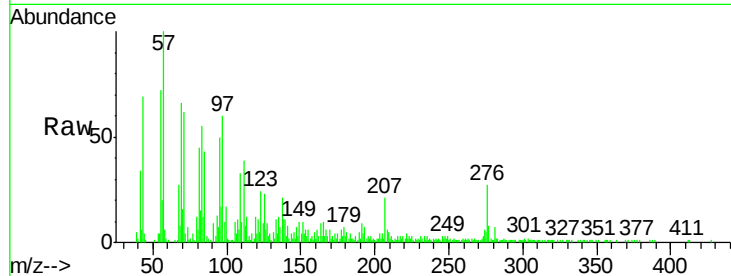
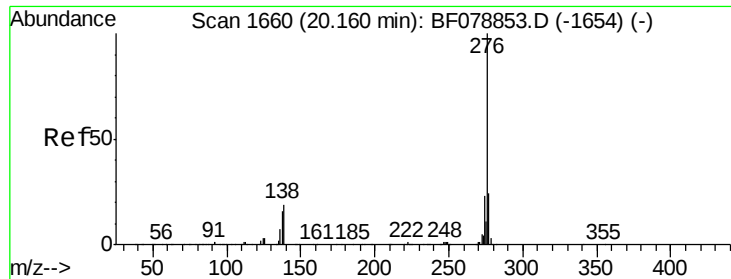
Delta R.T. 0.03 min

Lab File: BF079146.D

Acq: 12 May 2015 7:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 37444 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.2  | 17.3  | 25.9# |
| 125       | 111.1 | 7.0   | 10.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.24 ng  
 RT: 19.84 min Scan# 1632  
 Delta R.T. 0.05 min  
 Lab File: BF079146.D  
 Acq: 12 May 2015 7:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PS-29(3-5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.8  | 18.6  | 28.0  |
| 138     | 40.1  | 17.4  | 26.0  |

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