

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
 Data File : BF079546.D  
 Acq On : 28 May 2015 16:06  
 Operator : TP/IZ  
 Sample : G2386-04  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-SS

Manual Integrations  
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 5/29/2015 5:12:01 PM

Quant Time: May 29 08:55:36 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 28 18:41:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 66237    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.54  | 136  | 277522   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.71 | 164  | 133683   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.54 | 188  | 245669   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 15.82 | 240  | 253361   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 17.52 | 264  | 295099   | 20.00 | ng    | -0.15    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.24  | 112  | 397188m  | 104.01 | ng    | 0.01     |
| 7) Phenol-d6                | 6.56  | 99   | 537141   | 110.35 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.66  | 82   | 307932   | 64.14  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.68 | 330  | 151217   | 102.99 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.88  | 172  | 643138   | 68.64  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.53 | 244  | 737455   | 68.31  | ng    | -0.01    |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 31) Naphthalene            | 8.56  | 128  | 63530    | 4.77  | ng    | 99     |
| 37) 2-Methylnaphthalene    | 9.43  | 142  | 45903    | 4.96  | ng    | 98     |
| 48) Acenaphthylene         | 10.53 | 152  | 161381   | 11.79 | ng    | 99     |
| 49) Dimethylphthalate      | 10.40 | 163  | 55161    | 5.60  | ng    | 99     |
| 51) Acenaphthene           | 10.74 | 154  | 24484    | 3.13  | ng    | 99     |
| 54) Dibenzofuran           | 10.96 | 168  | 42030    | 3.64  | ng    | 94     |
| 57) Fluorene               | 11.38 | 166  | 44381    | 4.66  | ng    | 100    |
| 70) Phenanthrene           | 12.57 | 178  | 514525   | 38.18 | ng    | 99     |
| 71) Anthracene             | 12.63 | 178  | 237589   | 17.36 | ng    | 99     |
| 72) Carbazole              | 12.85 | 167  | 65146    | 4.95  | ng    | 98     |
| 74) Fluoranthene           | 14.03 | 202  | 967732   | 66.96 | ng    | 92     |
| 77) Pvrene                 | 14.32 | 202  | 919011   | 58.55 | ng    | 100    |
| 80) Benzo(a)anthracene     | 15.81 | 228  | 637510   | 43.74 | ng    | 97     |
| 82) Chrysene               | 15.84 | 228  | 597160   | 43.11 | ng    | 96     |
| 85) Indeno(1,2,3-cd)pyrene | 18.81 | 276  | 590019m  | 33.11 | ng    |        |
| 87) Benzo(b)fluoranthene   | 17.09 | 252  | 1180970m | 70.17 | ng    |        |
| 88) Benzo(k)fluoranthene   | 17.11 | 252  | 244521m  | 16.25 | ng    |        |
| 89) Benzo(a)pyrene         | 17.46 | 252  | 684821   | 46.46 | ng    | 98     |
| 90) Dibenzo(a,h)anthracene | 18.82 | 278  | 147473m  | 8.31  | ng    |        |
| 91) Benzo(a,h,i)perylene   | 19.19 | 276  | 540308   | 35.10 | ng    | 98     |

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

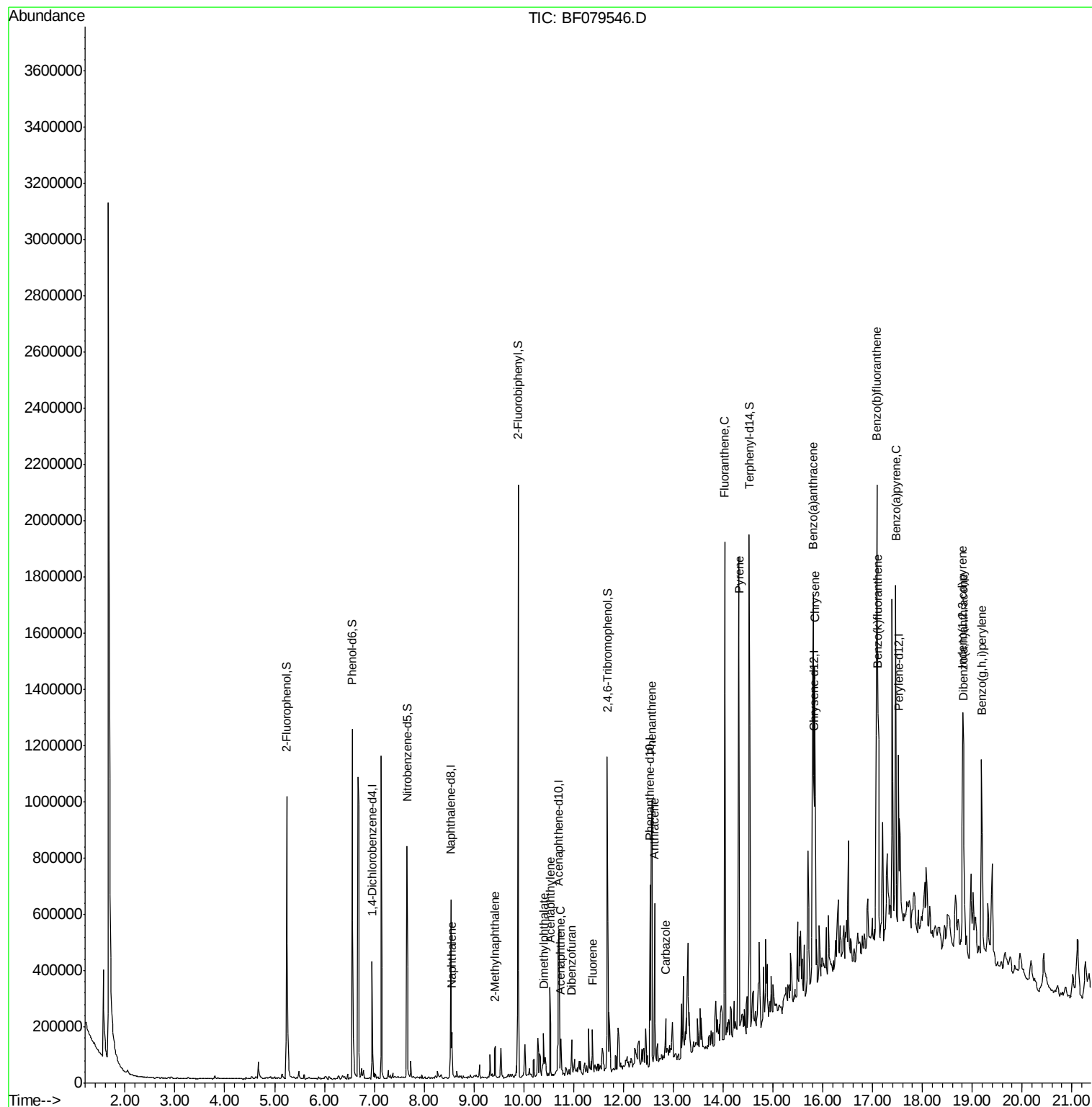
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052815\  
Data File : BF079546.D  
Acq On : 28 May 2015 16:06  
Operator : TP/IZ  
Sample : G2386-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-SS

Manual Integrations  
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Quant Time: May 29 08:55:36 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 28 18:41:08 2015  
Response via : Initial Calibration





#1

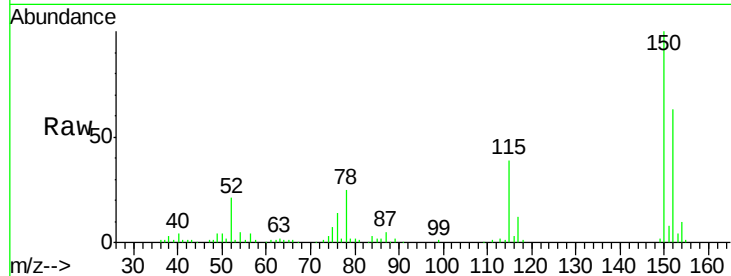
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.96 min Scan# 505  
Delta R.T. 0.00 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-SS

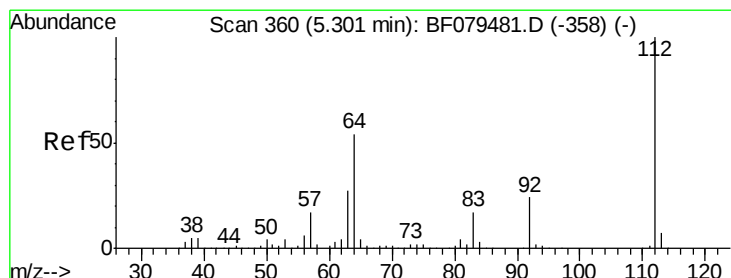
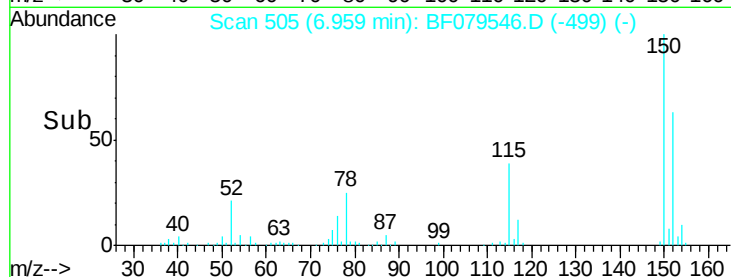
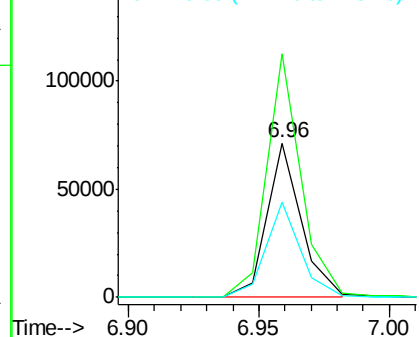
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.8 | 124.0 | 186.0 |
| 115     | 61.3  | 49.6  | 74.4  |

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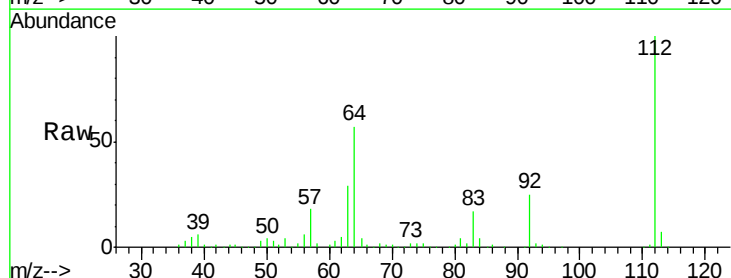
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



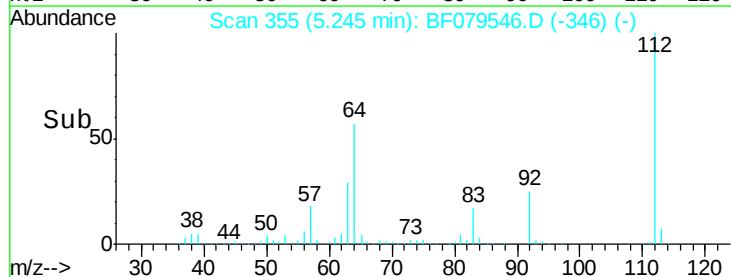
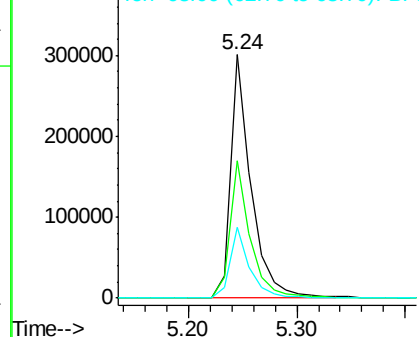
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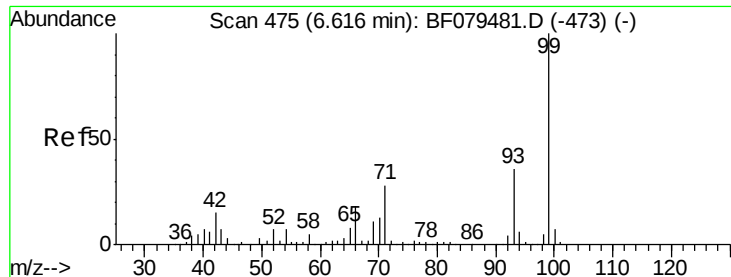
2-Fluorophenol  
Concen: 104.01 ng m  
RT: 5.24 min Scan# 355  
Delta R.T. 0.01 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.6  | 43.5  | 65.3  |
| 63      | 28.9  | 21.8  | 32.8  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.35 ng

RT: 6.56 min Scan# 470

Delta R.T. 0.00 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

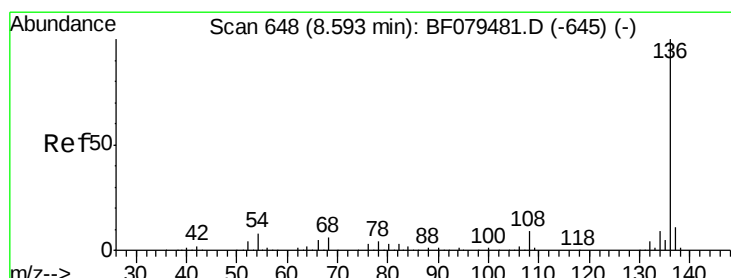
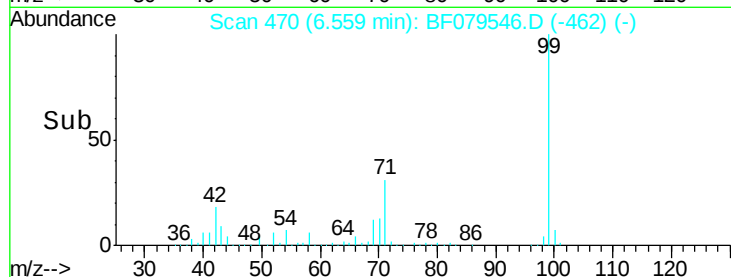
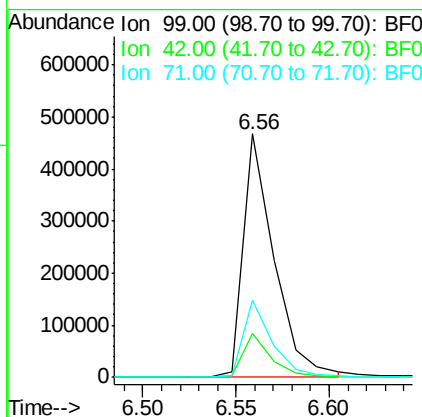
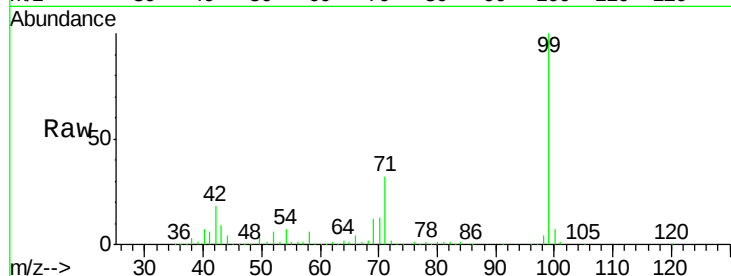
ClientSampleId :

TP-3-SS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 537141 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.0  | 11.9  | 17.9#  |
| 71        | 31.5  | 22.1  | 33.1   |

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#21

Naphthalene-d8

Concen: 20.00 ng

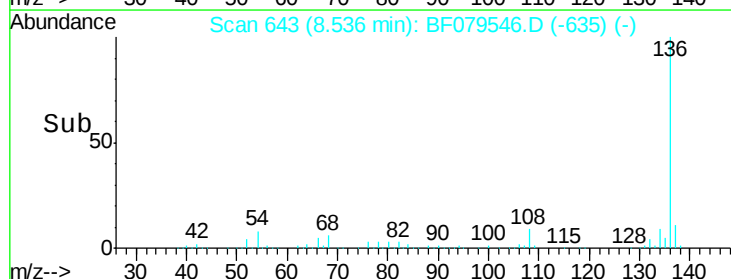
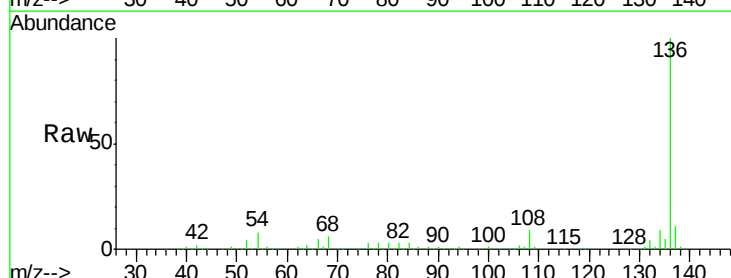
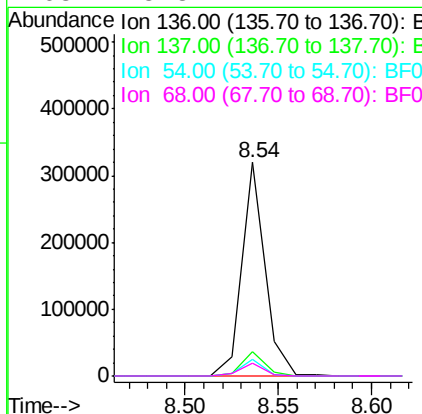
RT: 8.54 min Scan# 643

Delta R.T. 0.00 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 277522 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.5   | 12.7   |
| 54        | 7.7   | 6.6   | 9.8    |
| 68        | 5.8   | 4.7   | 7.1    |





#23

Nitrobenzene-d5

Concen: 64.14 ng

RT: 7.66 min Scan# 566

Delta R.T. -0.01 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

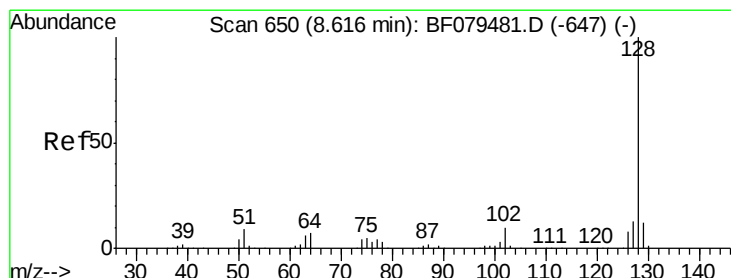
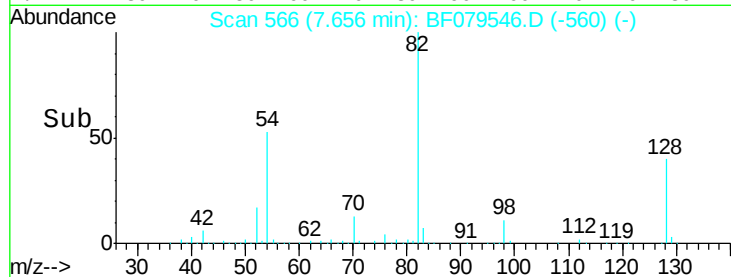
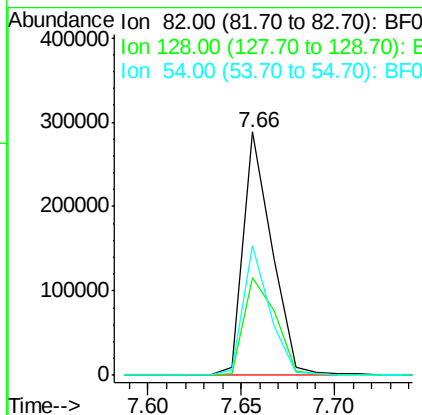
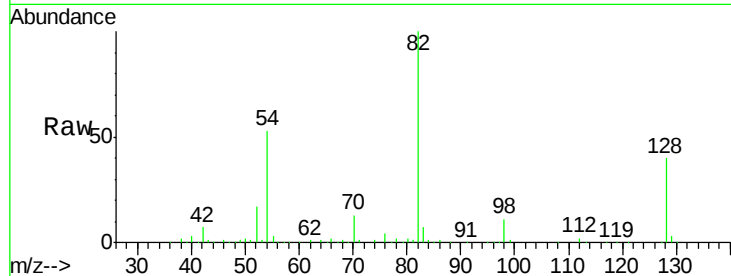
ClientSampled :

TP-3-SS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 307932 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.0  | 30.8  | 46.2   |
| 54        | 53.3  | 42.8  | 64.2   |

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#31

Naphthalene

Concen: 4.77 ng

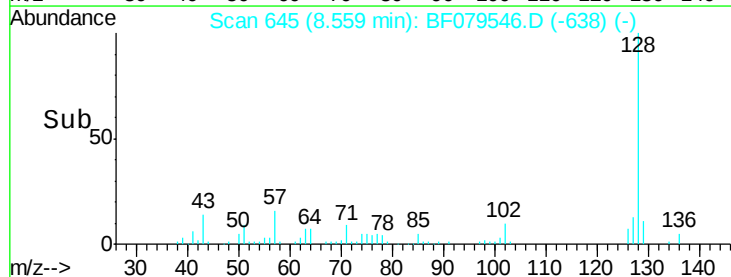
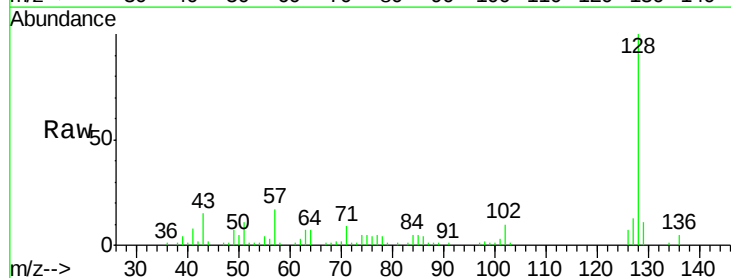
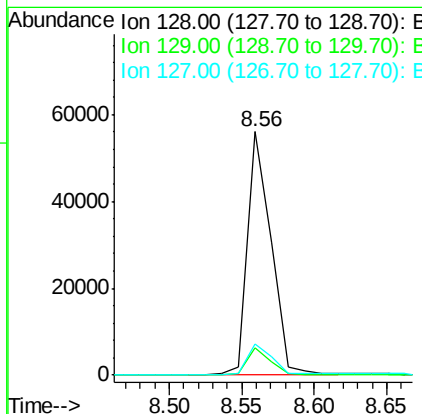
RT: 8.56 min Scan# 645

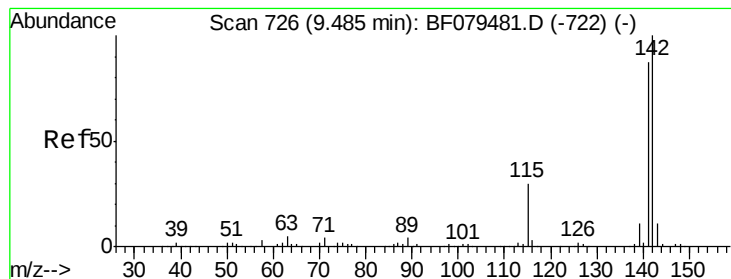
Delta R.T. -0.01 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 63530 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.5  | 9.3   | 13.9  |
| 127       | 12.6  | 10.6  | 15.8  |





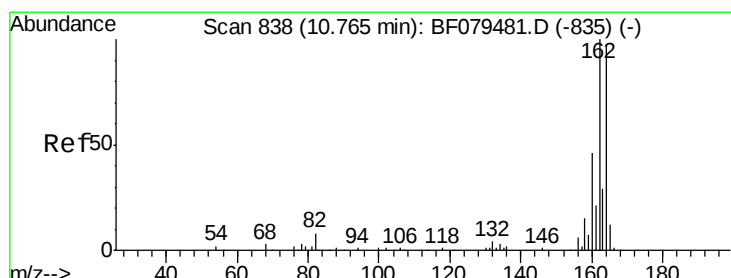
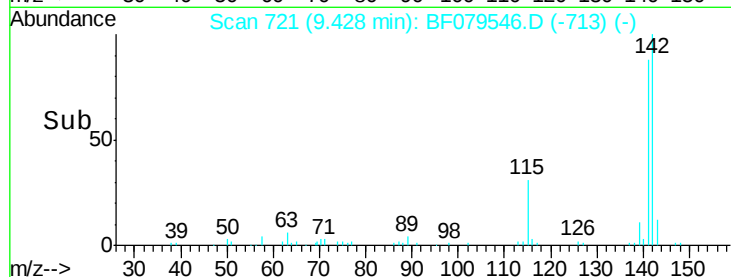
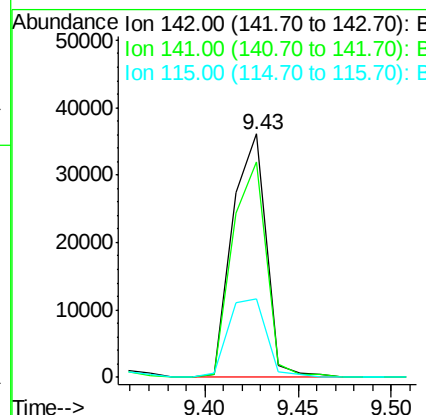
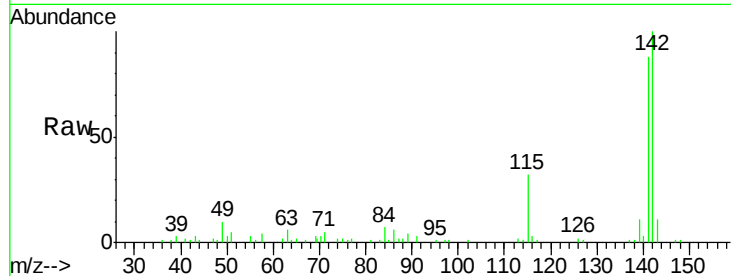
#37  
 2-Methylnaphthalene  
 Concen: 4.96 ng  
 RT: 9.43 min Scan# 721  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleID :  
 TP-3-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.4  | 69.5  | 104.3 |
| 115     | 32.0  | 23.8  | 35.6  |

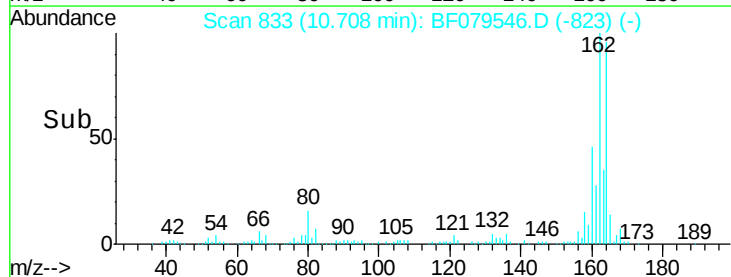
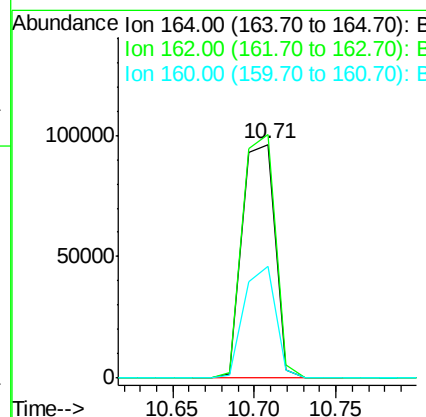
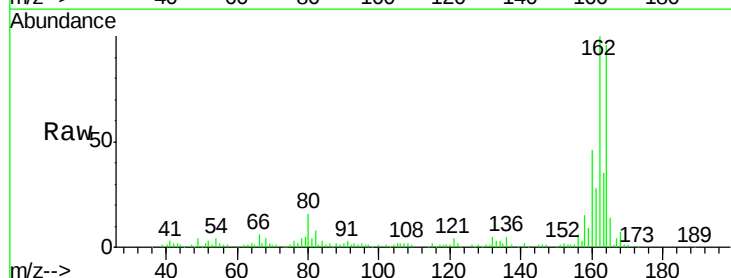
Manual Integrations  
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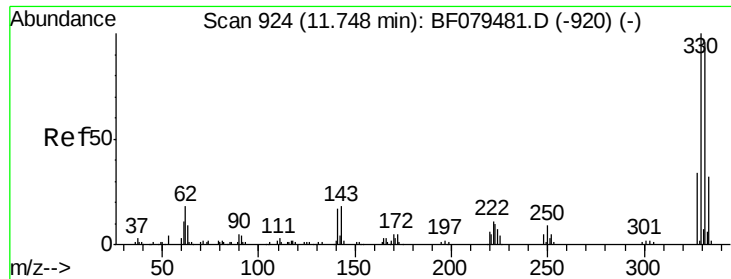
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.71 min Scan# 833  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.1 | 82.6  | 124.0 |
| 160     | 47.6  | 37.7  | 56.5  |





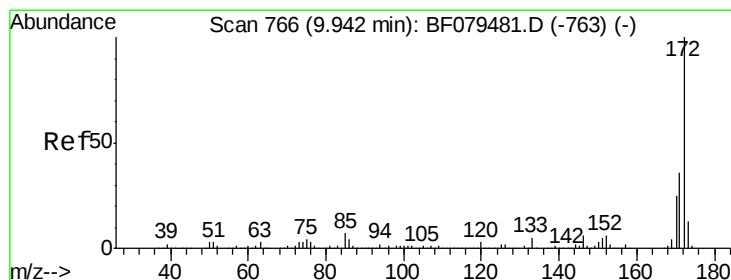
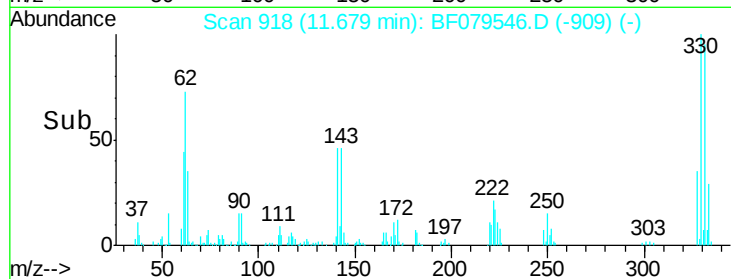
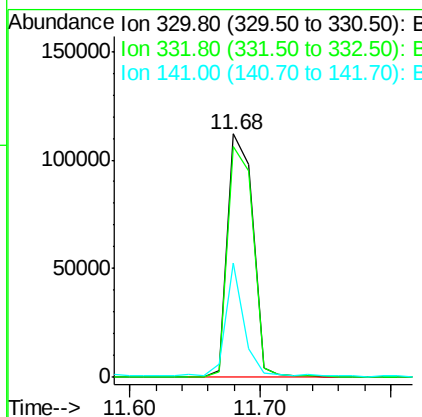
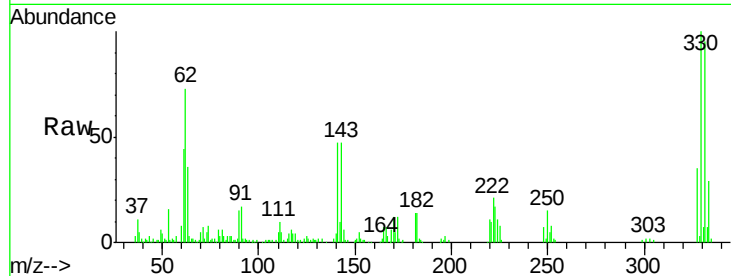
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 2,4,6-Tribromophenol  
 Concen: 102.99 ng  
 RT: 11.68 min Scan# 918  
 Delta R.T. -0.01 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-3-SS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 95.9  | 0.0        | 0.0#  |
| 141     | 34.0  | 0.0        | 0.0#  |

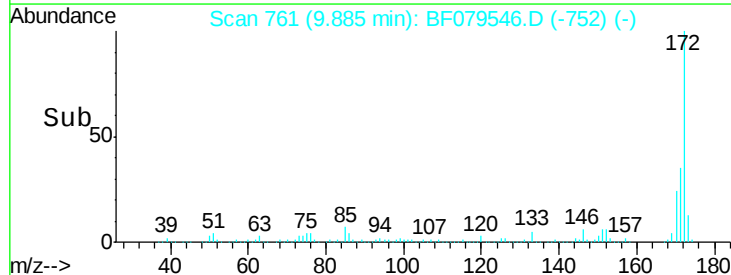
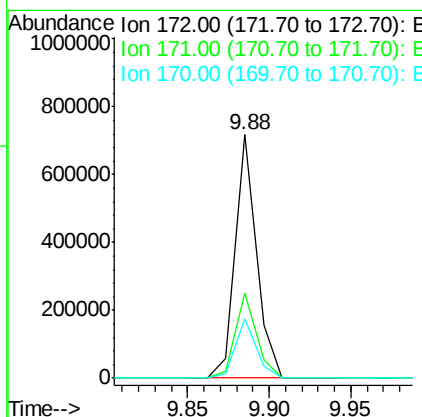
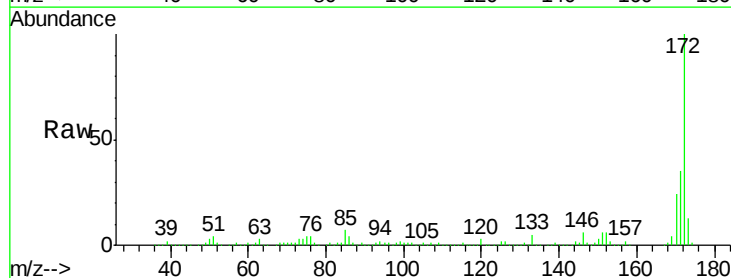
Manual Integrations  
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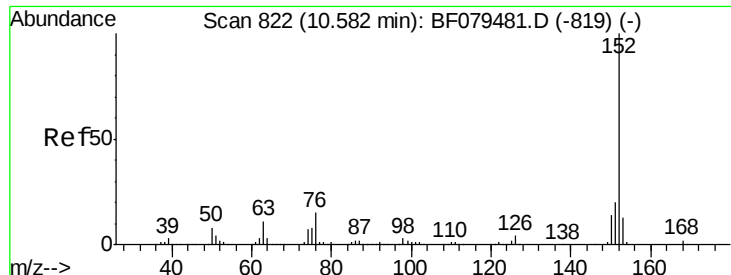
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#44  
 2-Fluorobiphenyl  
 Concen: 68.64 ng  
 RT: 9.88 min Scan# 761  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.0  | 28.5       | 42.7  |
| 170     | 24.2  | 19.7       | 29.5  |





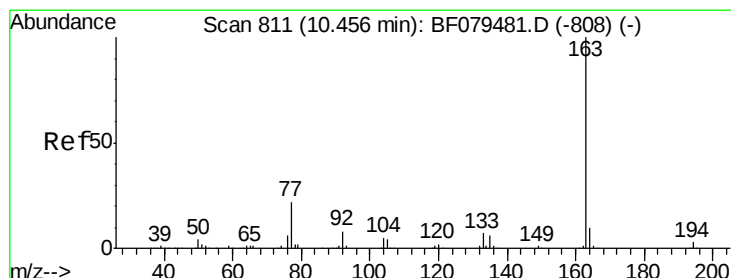
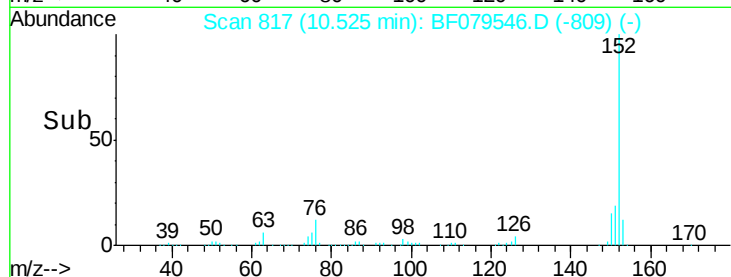
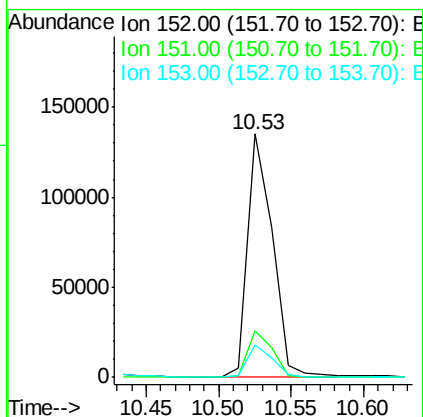
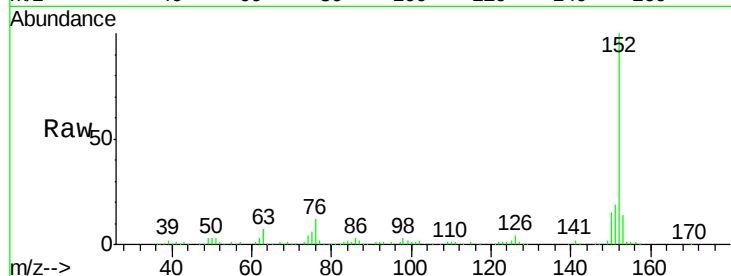
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Acenaphthylene  
Concen: 11.79 ng  
RT: 10.53 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-SS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 161381 |       |       |
| 151     | 19.1  |        | 15.8  | 23.8  |
| 153     | 13.6  |        | 10.7  | 16.1  |

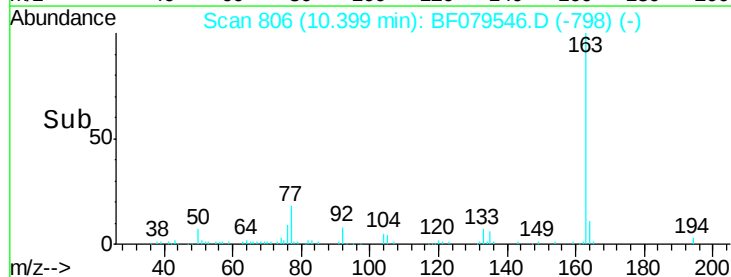
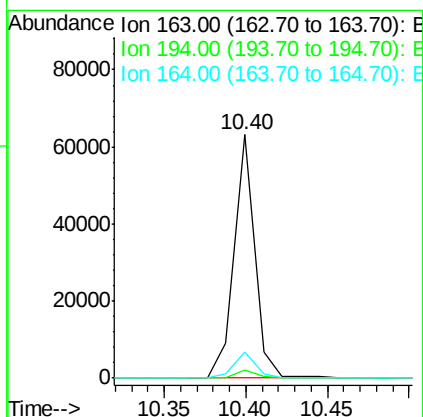
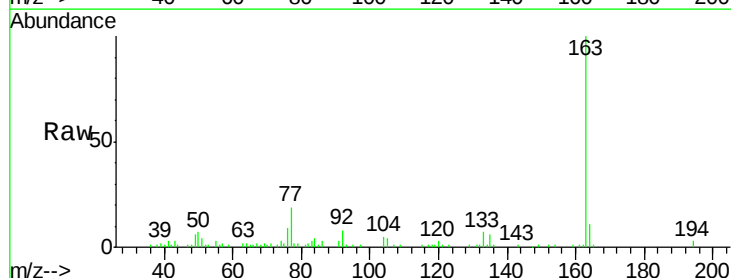
Manual Integrations  
APPROVED

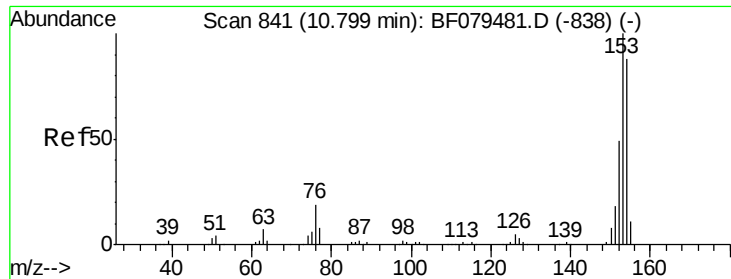
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#49  
Dimethylphthalate  
Concen: 5.60 ng  
RT: 10.40 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 55161 |       |       |
| 194     | 3.3   |       | 2.4   | 3.6   |
| 164     | 10.8  |       | 8.2   | 12.4  |





#51

Acenaphthene

Concen: 3.13 ng

RT: 10.74 min Scan# 836

Delta R.T. 0.00 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

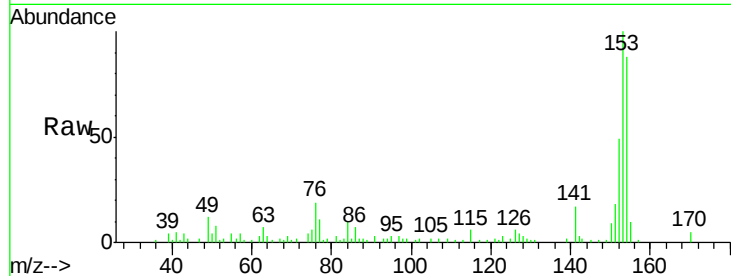
ClientSampleId :

TP-3-SS

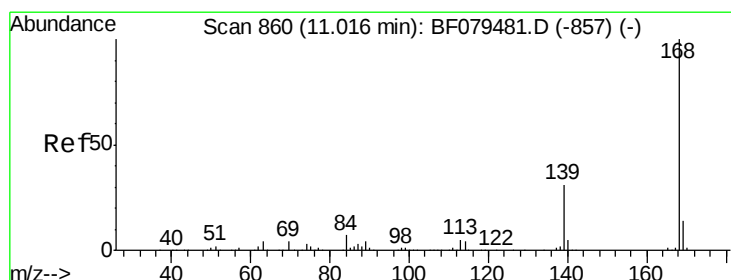
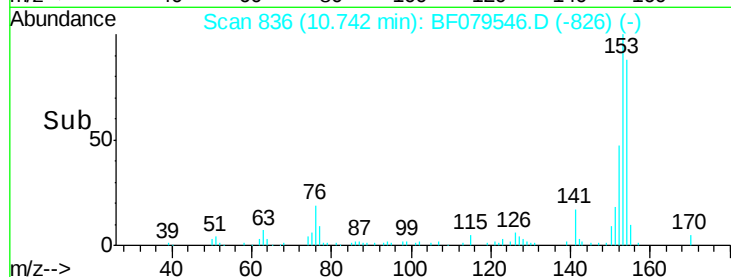
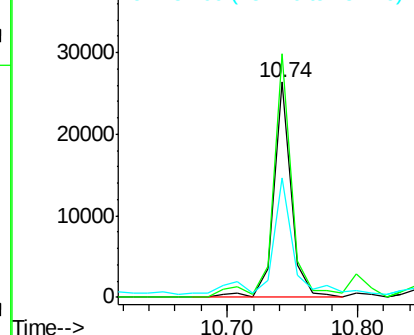
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 24484 |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 113.1 | 91.1  | 136.7 |
| 152      | 55.3  | 44.6  | 66.8  |

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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: 3.64 ng

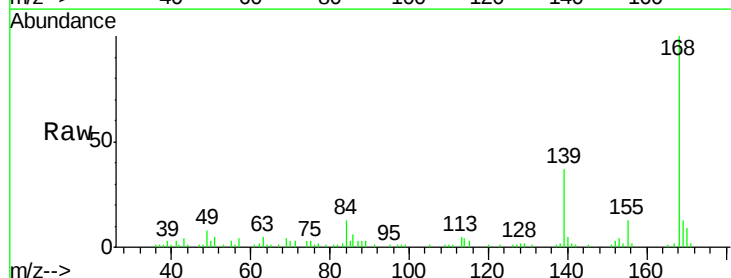
RT: 10.96 min Scan# 855

Delta R.T. 0.00 min

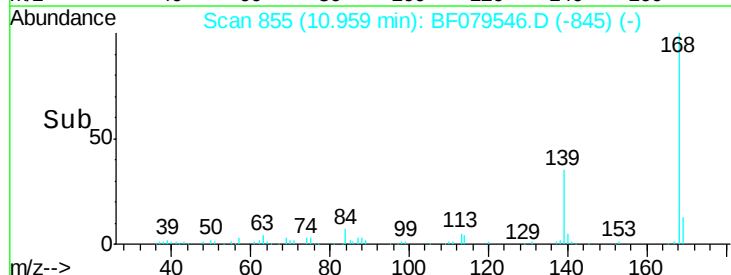
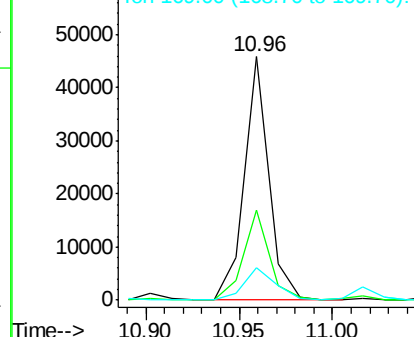
Lab File: BF079546.D

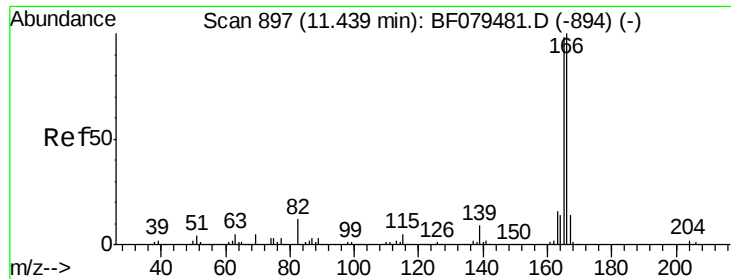
Acq: 28 May 2015 16:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 168   | Resp: | 42030 |
| Ion      | Ratio | Lower | Upper |
| 168      | 100   |       |       |
| 139      | 36.7  | 32.9  | 49.3  |
| 169      | 13.4  | 11.1  | 16.7  |



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





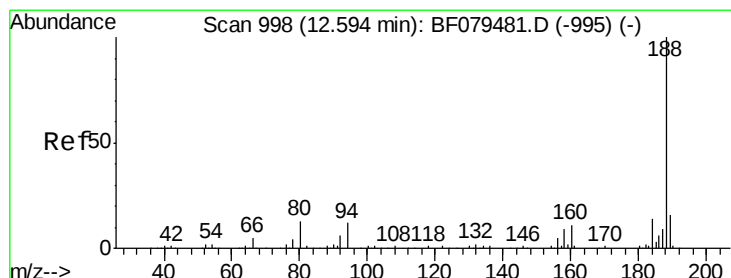
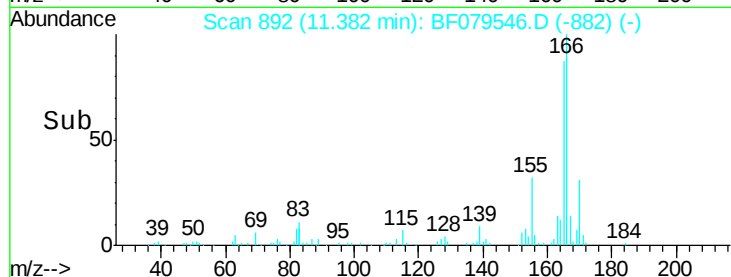
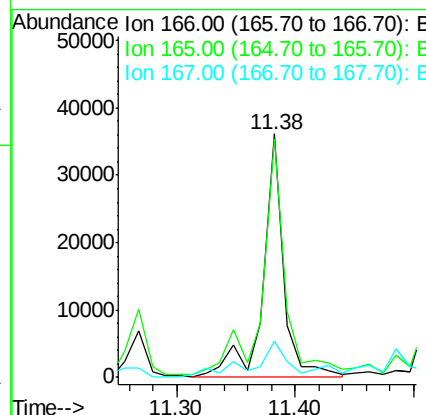
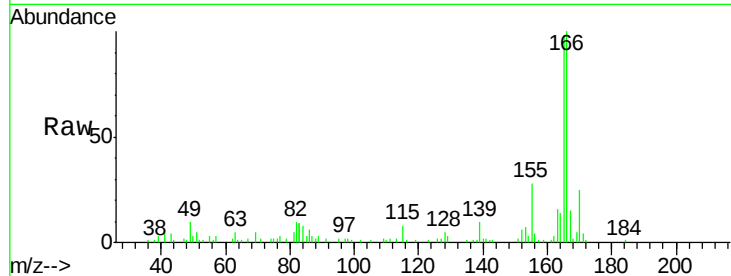
#57  
**Fluorene**  
 Concen: 4.66 ng  
 RT: 11.38 min Scan# 892  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-SS

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 166     | 100  |       | 44381 |       |       |
| 165     | 98.2 | 78.6  | 117.8 |       |       |
| 167     | 15.1 | 10.8  | 16.2  |       |       |

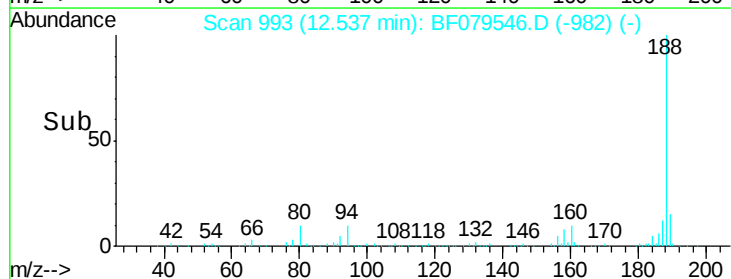
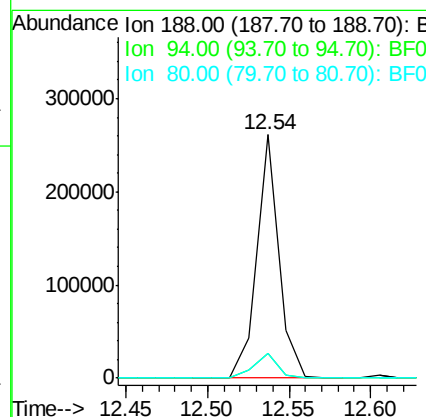
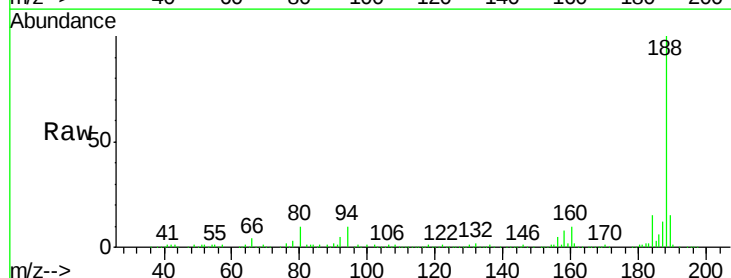
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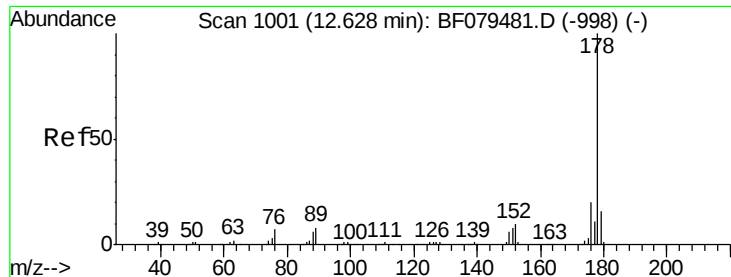
apatel  
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#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 12.54 min Scan# 993  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 188     | 100  |       | 245669 |       |       |
| 94      | 10.1 | 9.8   | 14.6   |       |       |
| 80      | 10.2 | 10.5  | 15.7   |       |       |





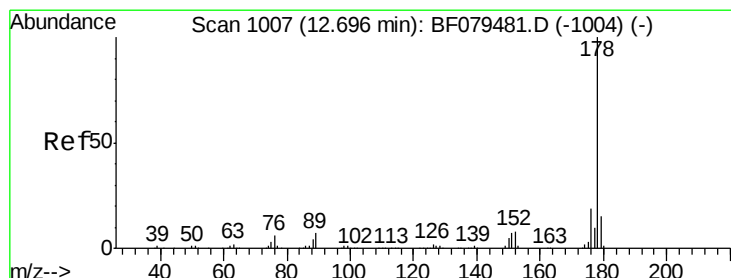
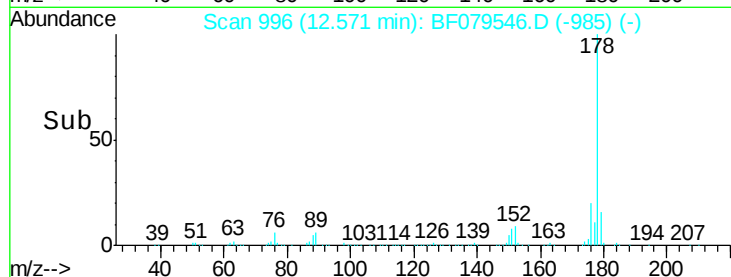
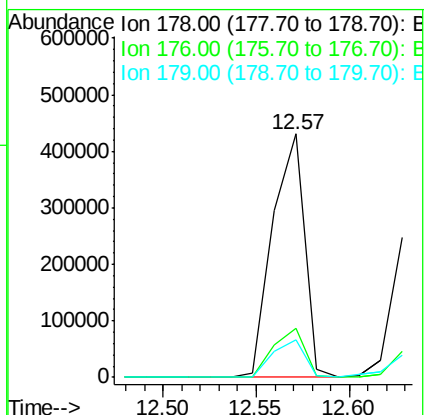
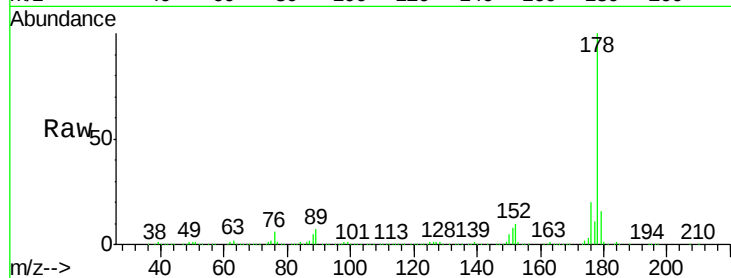
#70  
Phenanthrene  
Concen: 38.18 ng  
RT: 12.57 min Scan# 996  
Delta R.T. 0.00 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

Instrument :  
BNA\_F  
ClientSampled :  
TP-3-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.9  | 15.7  | 23.5  |
| 179     | 15.6  | 12.4  | 18.6  |

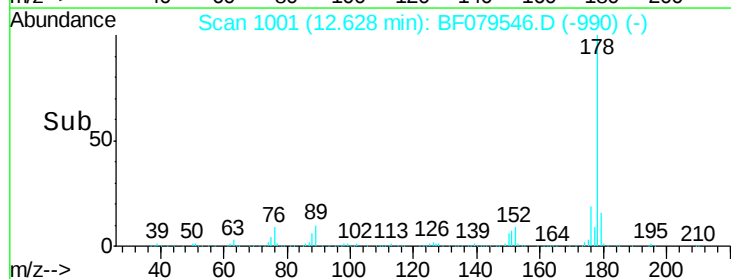
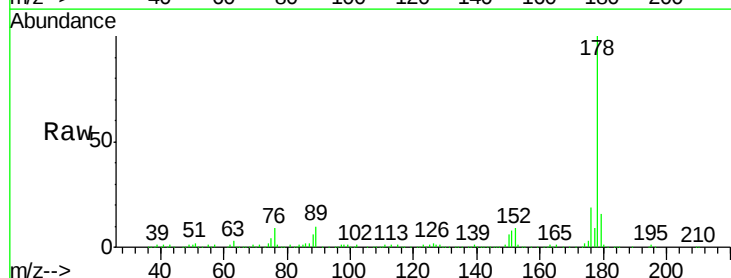
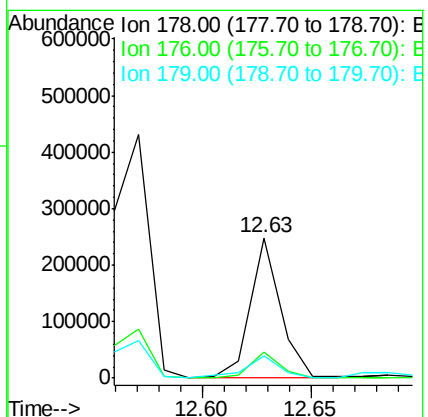
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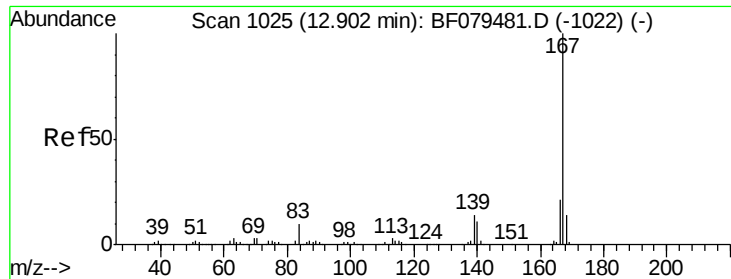
apatel  
5/29/2015 5:12:01 PM



#71  
Anthracene  
Concen: 17.36 ng  
RT: 12.63 min Scan# 1001  
Delta R.T. 0.00 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.3  | 22.9  |
| 179     | 15.7  | 12.2  | 18.4  |





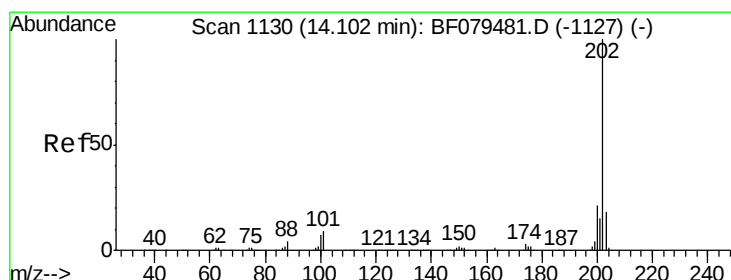
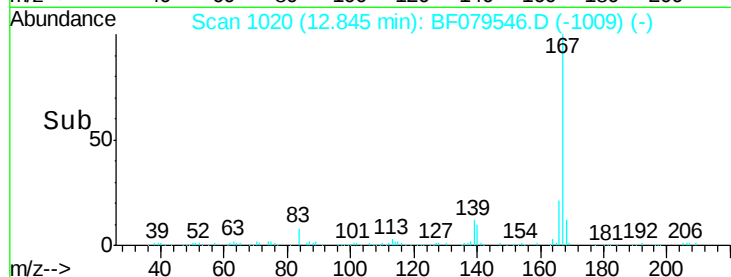
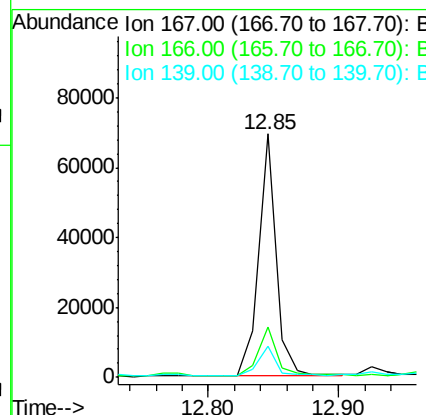
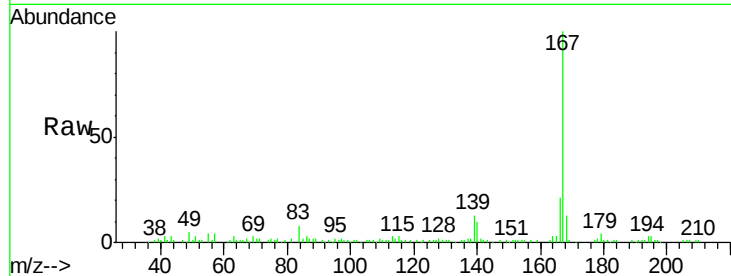
#72  
 Carbazole  
 Concen: 4.95 ng  
 RT: 12.85 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.9  | 17.0  | 25.4  |
| 139     | 12.8  | 11.2  | 16.8  |

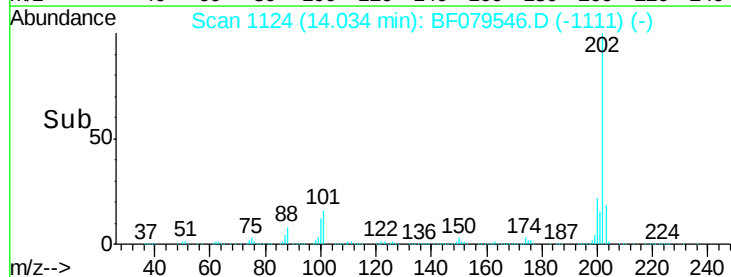
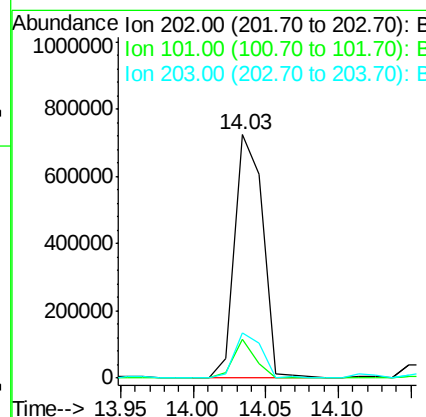
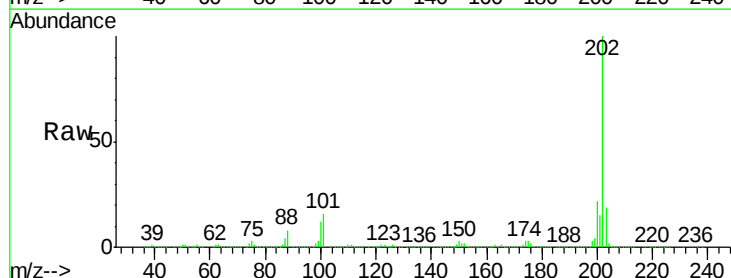
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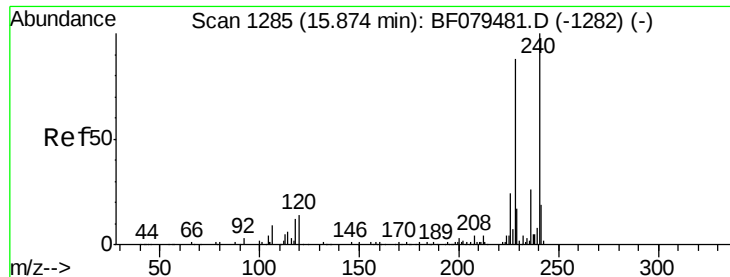
apatel  
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#74  
 Fluoranthene  
 Concen: 66.96 ng  
 RT: 14.03 min Scan# 1124  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 16.0  | 0.0   | 29.3  |
| 203     | 18.5  | 0.0   | 37.6  |





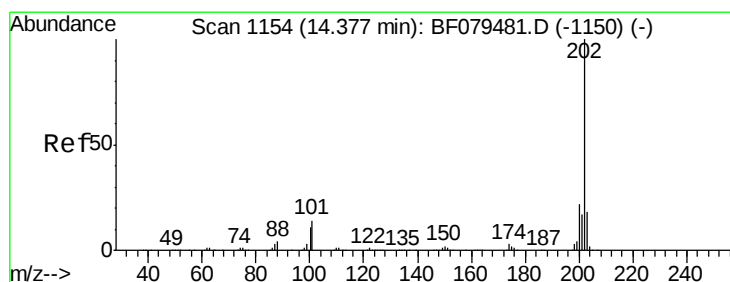
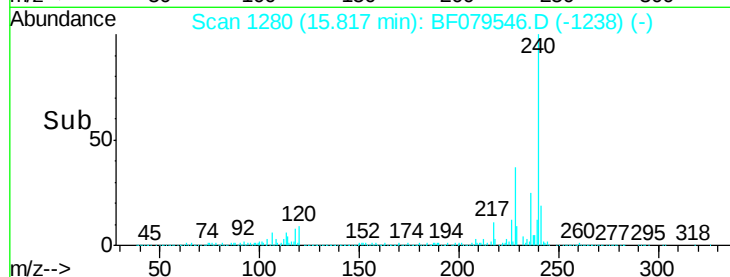
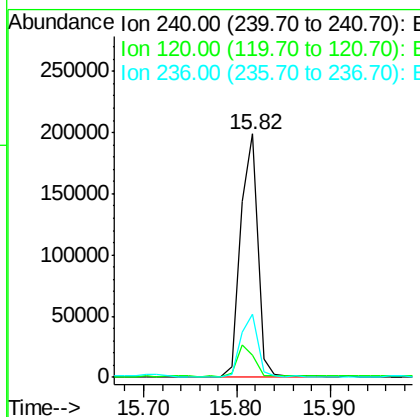
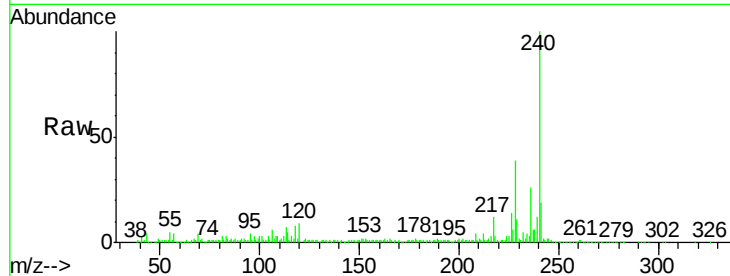
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 15.82 min Scan# 1280  
 Delta R.T. -0.02 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-SS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 253361 |       |       |
| 120     | 9.3   | 10.8   | 16.2  |       |
| 236     | 25.8  | 21.0   | 31.6  |       |

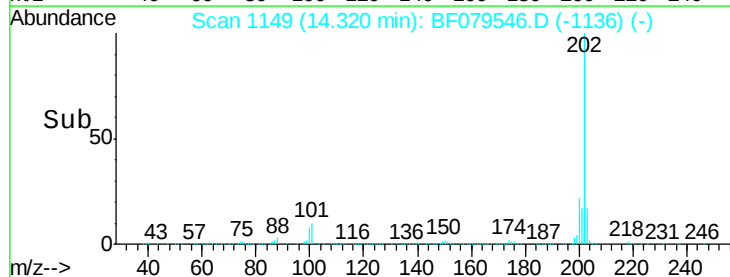
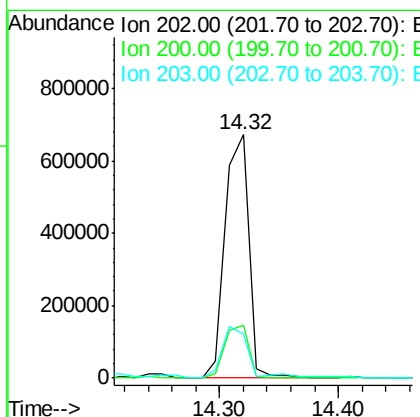
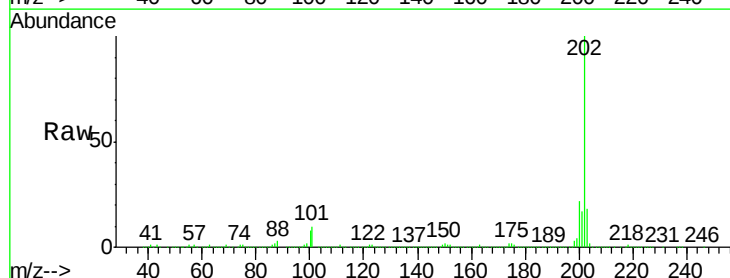
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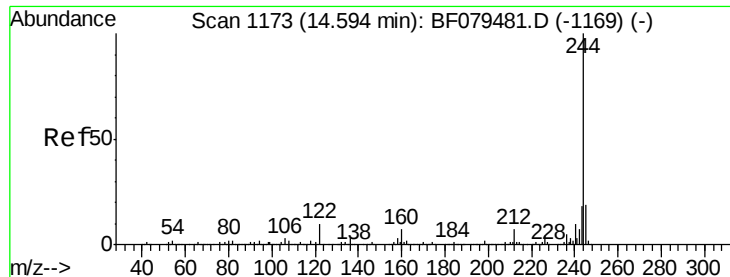
apatel  
 5/29/2015 5:12:01 PM



#77  
 Pyrene  
 Concen: 58.55 ng  
 RT: 14.32 min Scan# 1149  
 Delta R.T. 0.00 min  
 Lab File: BF079546.D  
 Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 919011 |       |       |
| 200     | 21.7  | 17.5   | 26.3  |       |
| 203     | 17.8  | 14.4   | 21.6  |       |





#78

Terphenyl-d14

Concen: 68.31 ng

RT: 14.53 min Scan# 1167

Delta R.T. -0.01 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

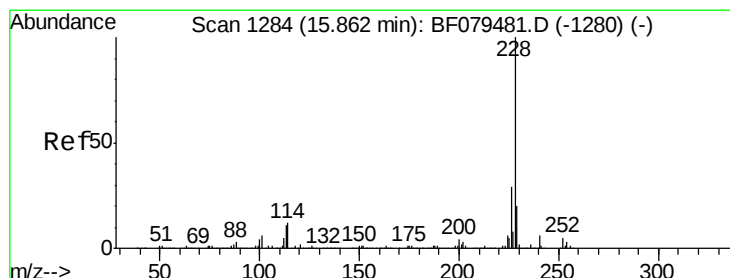
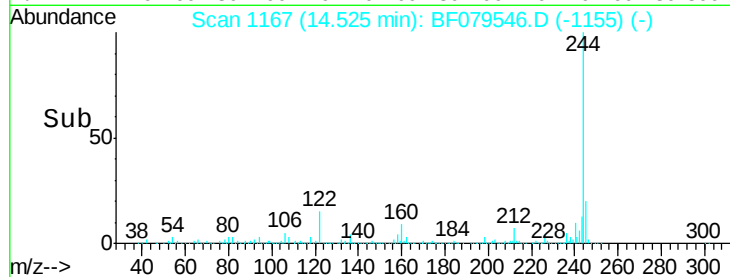
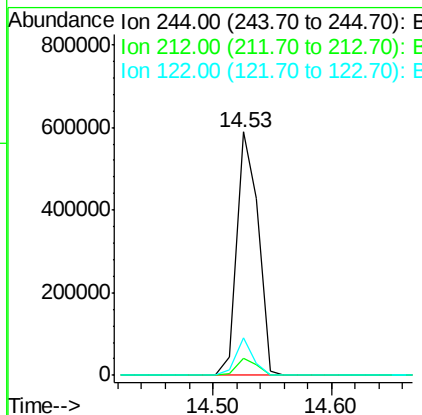
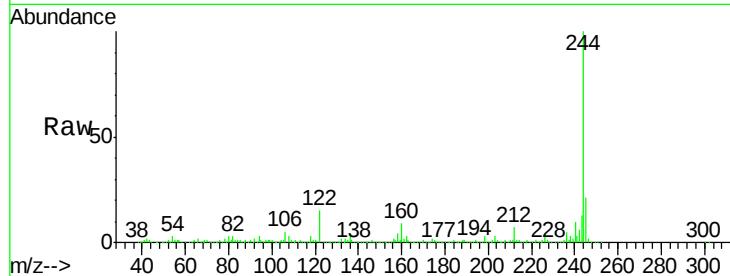
ClientSampleId :

TP-3-SS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 737455 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 5.2   | 7.8    |
| 122       | 15.2  | 8.0   | 12.0#  |

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#80

Benzo(a)anthracene

Concen: 43.74 ng

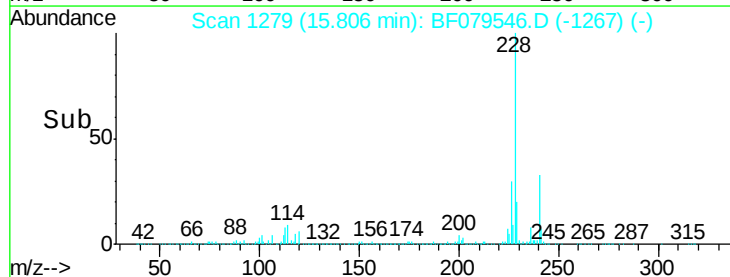
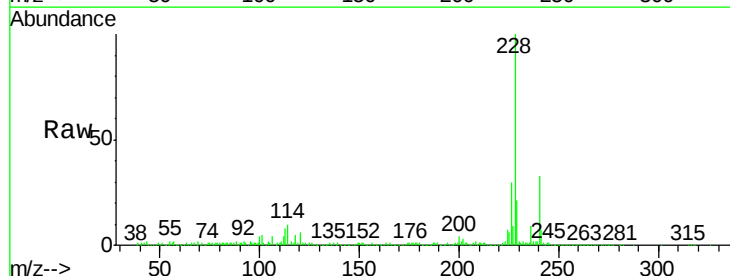
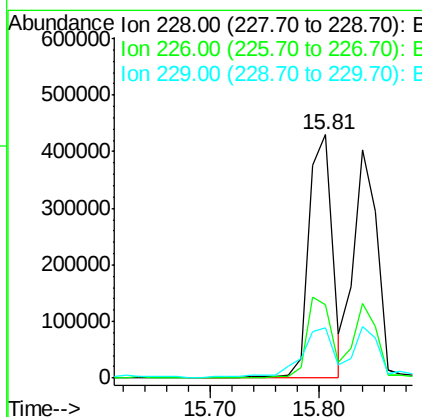
RT: 15.81 min Scan# 1279

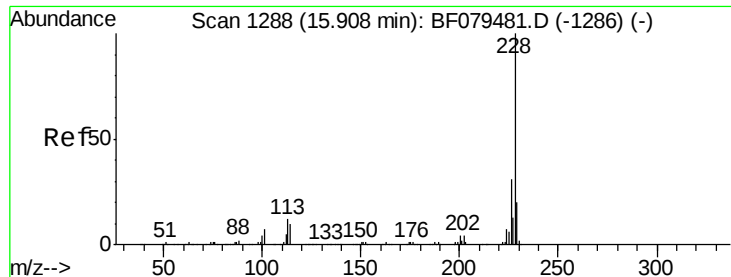
Delta R.T. -0.02 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 637510 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 22.8  | 34.2   |
| 229       | 20.7  | 15.9  | 23.9   |





#82

Chrysene

Concen: 43.11 ng

RT: 15.84 min Scan# 1282

Delta R.T. -0.03 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

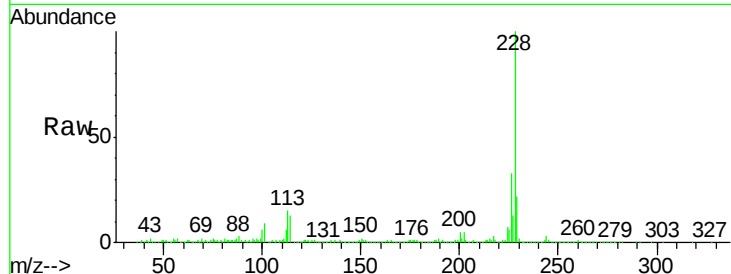
ClientSampled :

TP-3-SS

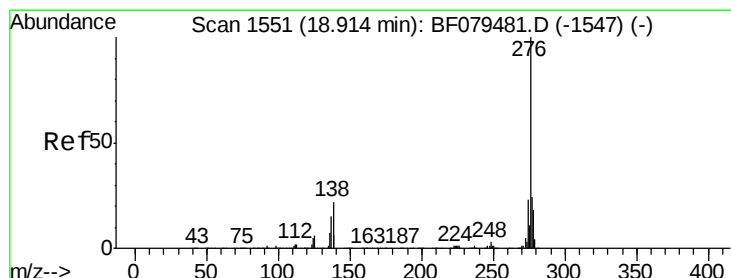
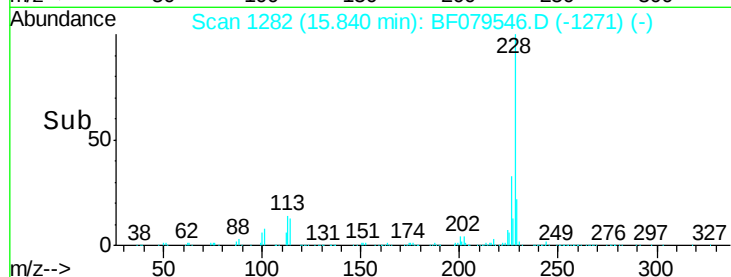
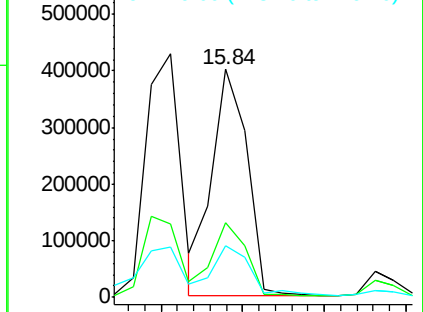
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 597160 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 32.8 | 25.0  | 37.4   |
| 229       | 22.5 | 15.9  | 23.9   |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 33.11 ng m

RT: 18.81 min Scan# 1542

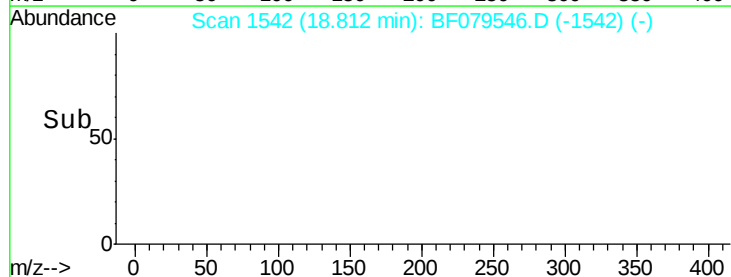
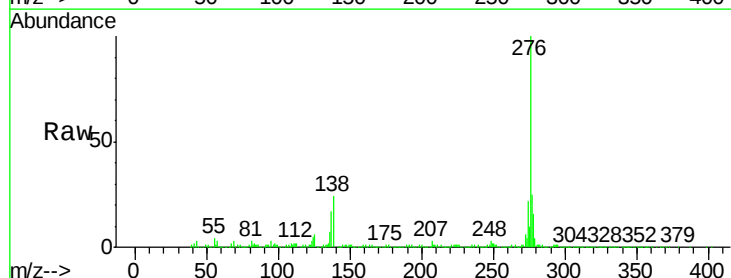
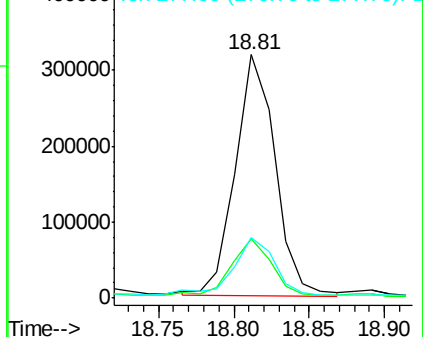
Delta R.T. -0.21 min

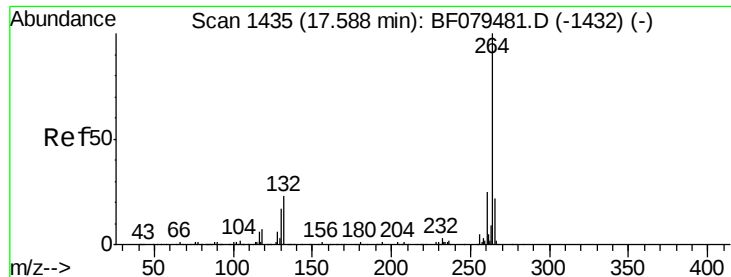
Lab File: BF079546.D

Acq: 28 May 2015 16:06

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 276 | Resp: | 590019 |
| Ion Ratio |     | Lower | Upper  |
| 276       | 100 |       |        |
| 138       | 2.7 | 21.4  | 32.2#  |
| 277       | 1.5 | 19.8  | 29.6#  |

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





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.52 min Scan# 1429

Delta R.T. -0.15 min

Lab File: BF079546.D

Acq: 28 May 2015 16:06

Instrument :

BNA\_F

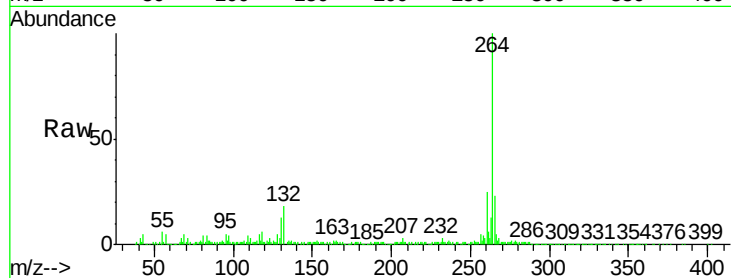
ClientSampleId :

TP-3-SS

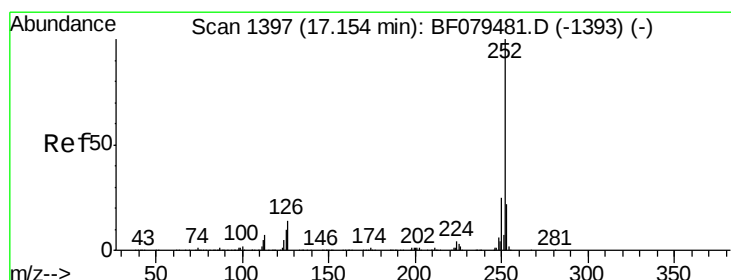
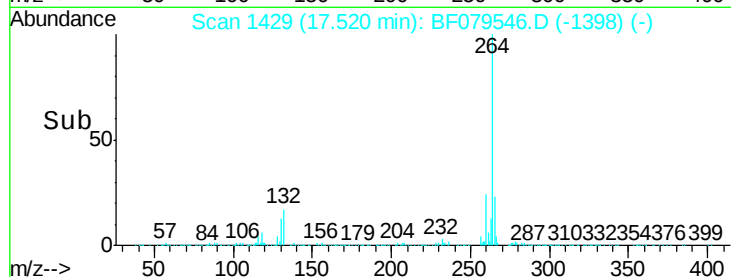
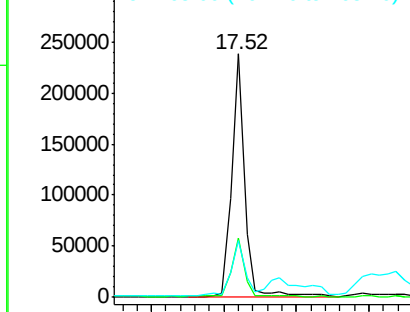
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 264  | Resp: | 295099 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 24.5 | 19.8  | 29.8   |
| 265       | 23.4 | 17.8  | 26.6   |

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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: 70.17 ng m

RT: 17.09 min Scan# 1391

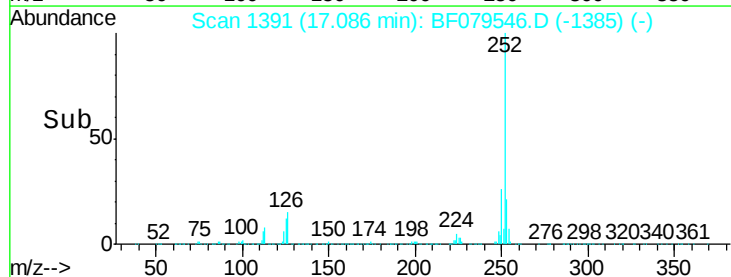
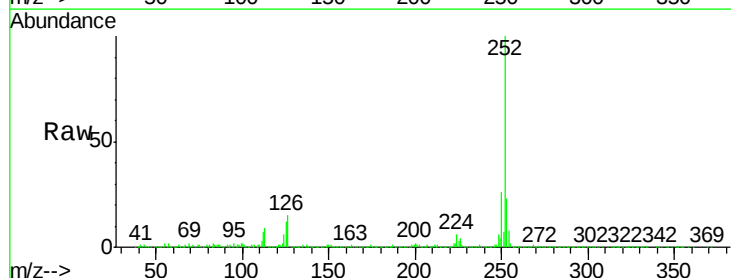
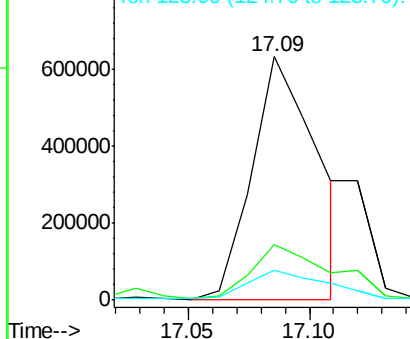
Delta R.T. -0.11 min

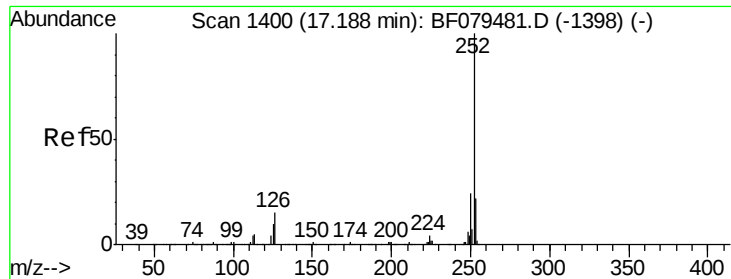
Lab File: BF079546.D

Acq: 28 May 2015 16:06

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 252  | Resp: | 1180970 |
| Ion Ratio |      | Lower | Upper   |
| 252       | 100  |       |         |
| 253       | 22.6 | 17.6  | 26.4    |
| 125       | 12.3 | 7.8   | 11.6#   |

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





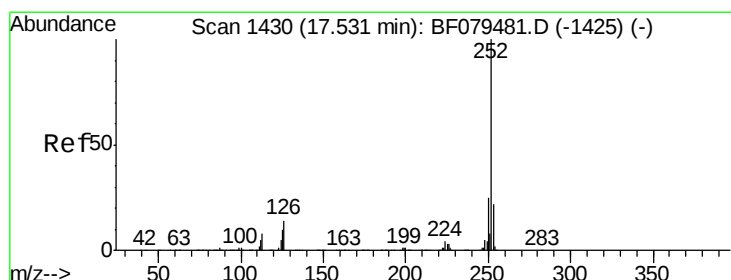
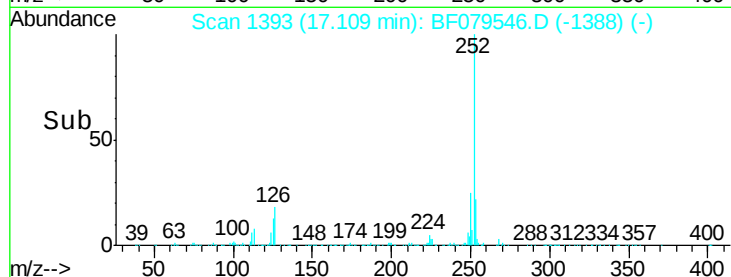
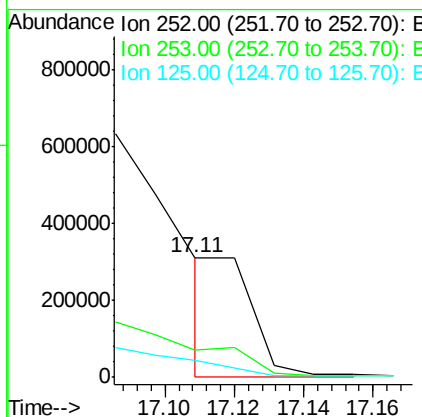
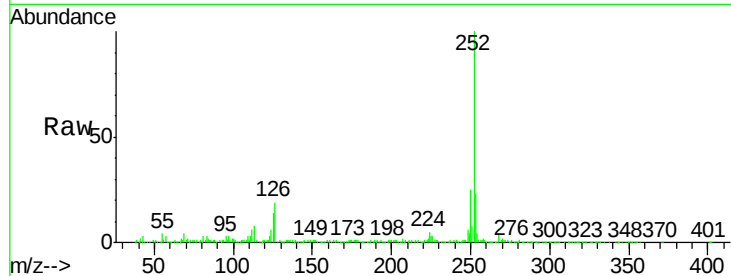
#88  
Benzo(k)fluoranthene  
Concen: 16.25 ng m  
RT: 17.11 min Scan# 1393  
Delta R.T. -0.13 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.2  | 25.8  |
| 125     | 14.0  | 6.8   | 10.2  |

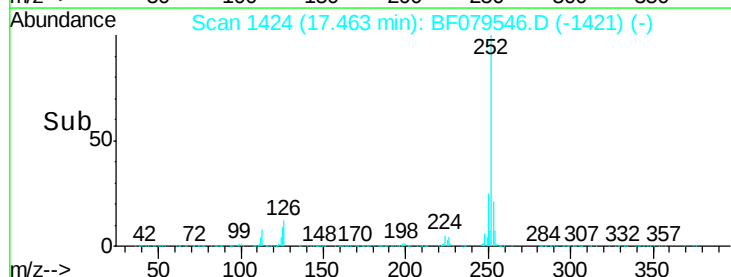
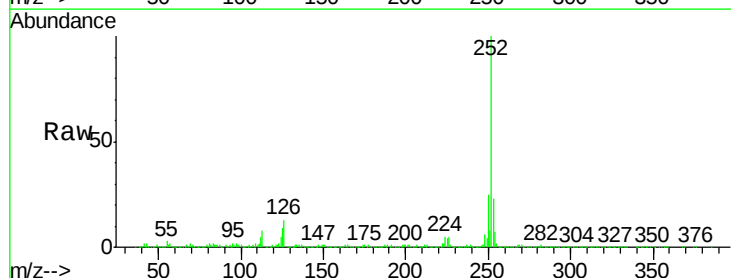
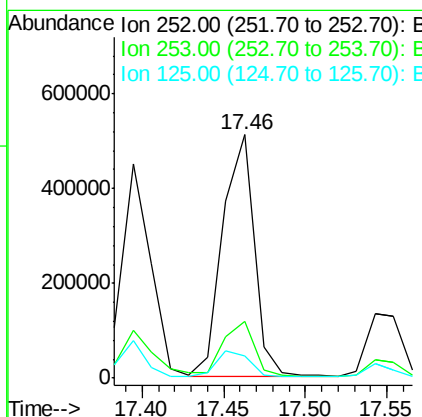
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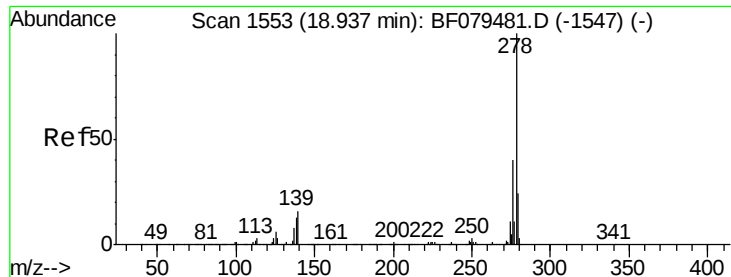
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#89  
Benzo(a)pyrene  
Concen: 46.46 ng  
RT: 17.46 min Scan# 1424  
Delta R.T. -0.15 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.8  |
| 125     | 9.3   | 7.9   | 11.9  |





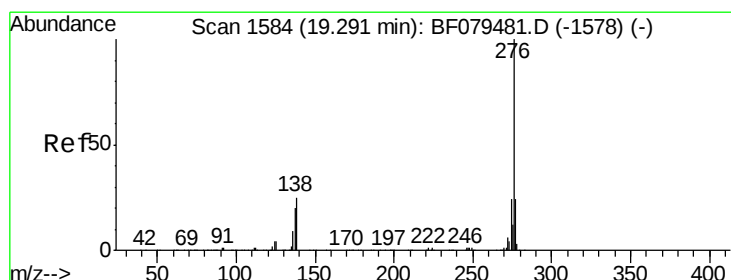
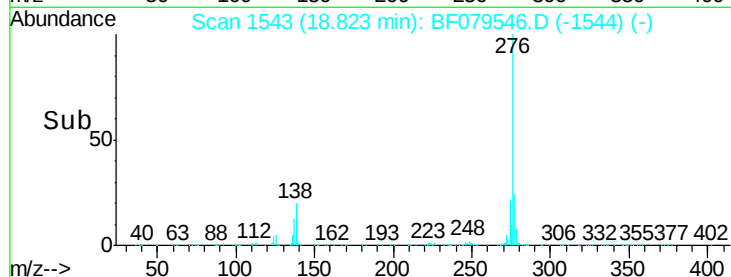
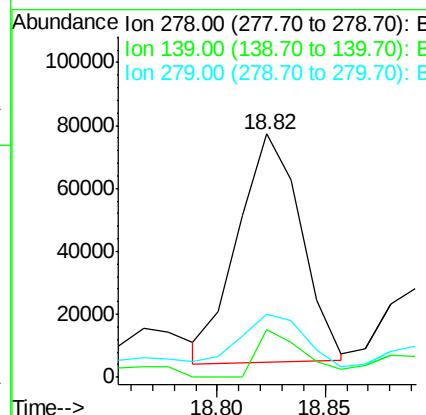
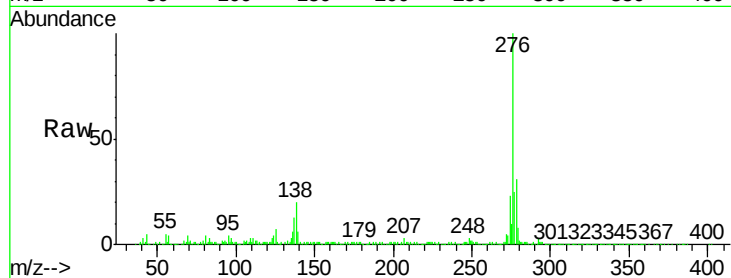
#90  
Dibenzo(a,h)anthracene  
Concen: 8.31 ng/mL  
RT: 18.82 min Scan# 1543  
Delta R.T. -0.22 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

Instrument :  
BNA\_F  
ClientSampleID :  
TP-3-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.4  | 12.8  | 19.2# |
| 279     | 26.2  | 19.1  | 28.7  |

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#91  
Benzo(g,h,i)perylene  
Concen: 35.10 ng/mL  
RT: 19.19 min Scan# 1575  
Delta R.T. -0.22 min  
Lab File: BF079546.D  
Acq: 28 May 2015 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.4  | 19.1  | 28.7  |
| 138     | 24.1  | 20.1  | 30.1  |

