

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
 Data File : BF077525.D  
 Acq On : 2 Mar 2015 16:33  
 Operator : TP/IZ  
 Sample : G1399-10 2X  
 Misc : S  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4(2-4)

Manual Integrations  
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 3/3/2015 6:26:39 PM

Quant Time: Mar 03 05:48:46 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 02 23:46:07 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.26  | 152  | 97290    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.83  | 136  | 395312   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 11.01 | 164  | 201413   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.85 | 188  | 389287   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 16.15 | 240  | 381324   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 17.89 | 264  | 436572   | 20.00  | ng    | 0.06     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.55  | 112  | 193766   | 33.25  | ng    | 0.00     |
| 7) Phenol-d6                | 6.81  | 99   | 246020   | 32.83  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.95  | 82   | 143621   | 22.59  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.99 | 330  | 62409    | 32.18  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.18 | 172  | 321129   | 24.86  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.85 | 244  | 356067   | 21.83  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.86  | 128  | 338274   | 17.11  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 9.72  | 142  | 223334   | 15.91  | ng    | 99       |
| 45) 1,1'-Biphenyl           | 10.30 | 154  | 106751   | 7.00   | ng    | 100      |
| 48) Acenaphthylene          | 10.84 | 152  | 1232122  | 65.04  | ng    | 97       |
| 51) Acenaphthene            | 11.05 | 154  | 273374   | 24.18  | ng    | 99       |
| 54) Dibenzofuran            | 11.26 | 168  | 585411   | 33.54  | ng    | # 98     |
| 57) Fluorene                | 11.69 | 166  | 961606m  | 68.91  | ng    |          |
| 70) Phenanthrene            | 12.89 | 178  | 4041970  | 179.14 | ng    | 94       |
| 71) Anthracene              | 12.95 | 178  | 1819318  | 81.25  | ng    | 98       |
| 72) Carbazole               | 13.15 | 167  | 162150   | 7.62   | ng    | 98       |
| 73) Di-n-butylphthalate     | 13.61 | 149  | 101470   | 4.06   | ng    | # 89     |
| 74) Fluoranthene            | 14.37 | 202  | 3756804  | 152.43 | ng    | 92       |
| 77) Pyrene                  | 14.65 | 202  | 4494120  | 192.67 | ng    | # 91     |
| 80) Benzo(a)anthracene      | 16.14 | 228  | 2686937  | 120.23 | ng    | # 83     |
| 82) Chrysene                | 16.18 | 228  | 2461773  | 117.31 | ng    | # 93     |
| 85) Indeno(1,2,3-cd)pyrene  | 19.35 | 276  | 1257975m | 52.57  | ng    |          |
| 87) Benzo(b)fluoranthene    | 17.45 | 252  | 2220686m | 87.47  | ng    |          |
| 88) Benzo(k)fluoranthene    | 17.47 | 252  | 935330m  | 37.59  | ng    |          |
| 89) Benzo(a)pyrene          | 17.83 | 252  | 2159159m | 89.30  | ng    |          |
| 90) Dibenzo(a,h)anthracene  | 19.36 | 278  | 356057   | 15.44  | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 19.78 | 276  | 1251404  | 53.77  | ng    | 97       |

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

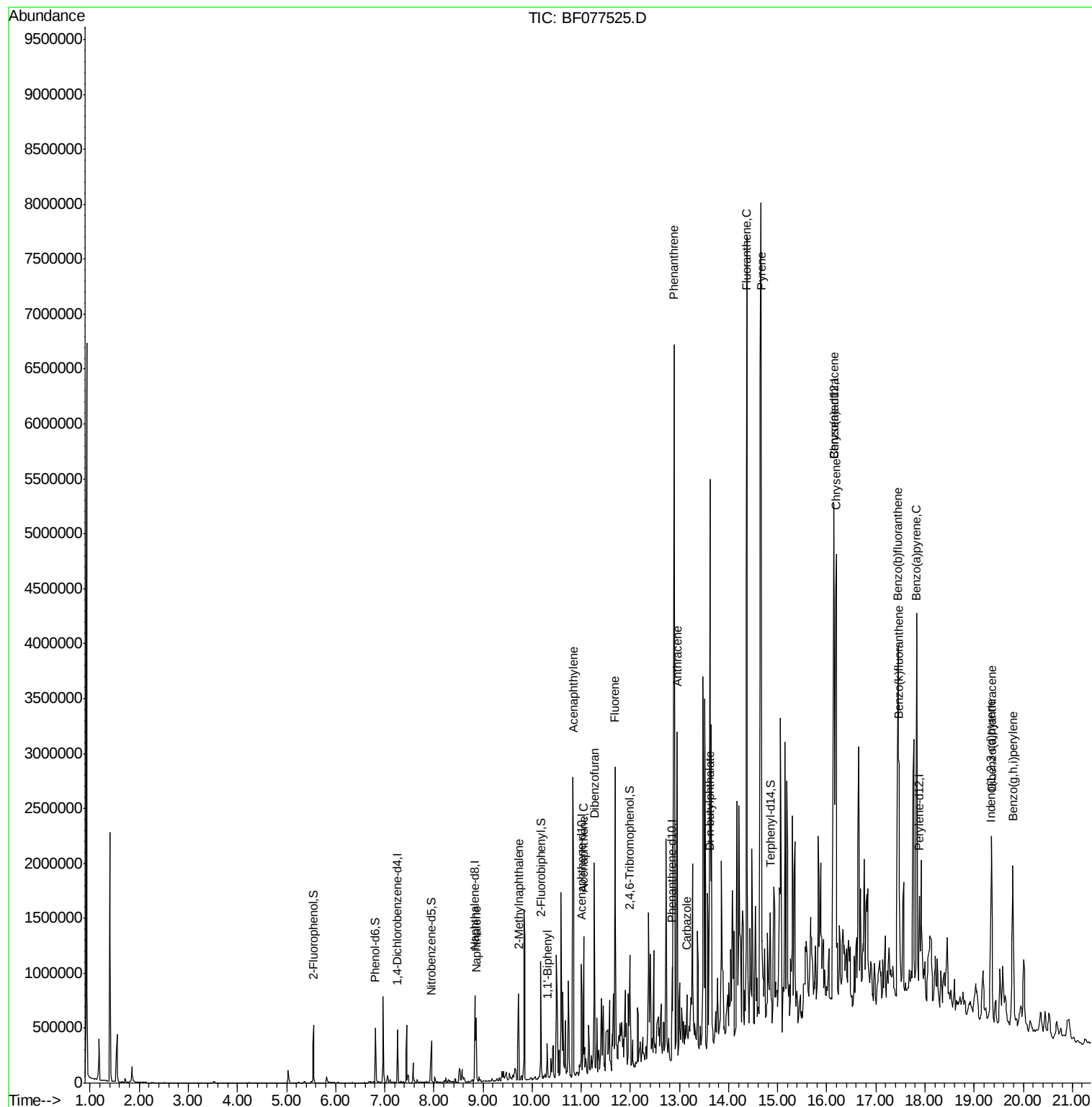
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077525.D  
Acq On : 2 Mar 2015 16:33  
Operator : TP/IZ  
Sample : G1399-10 2X  
Misc : S  
ALS Vial : 6 Sample Multiplier: 1

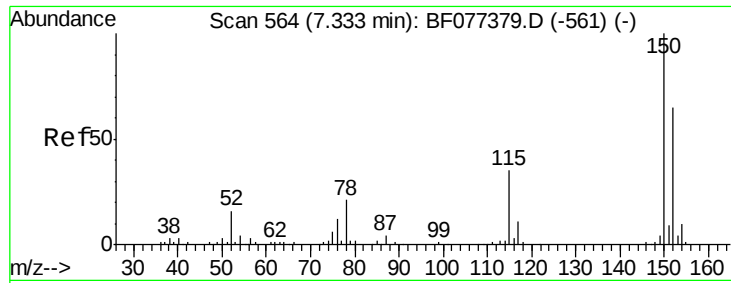
Instrument :  
BNA\_F  
ClientSampled :  
SB4(2-4)

Manual Integrations  
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Quant Time: Mar 03 05:48:46 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 02 23:46:07 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.26 min Scan# 557

Delta R.T. -0.00 min

Lab File: BF077525.D

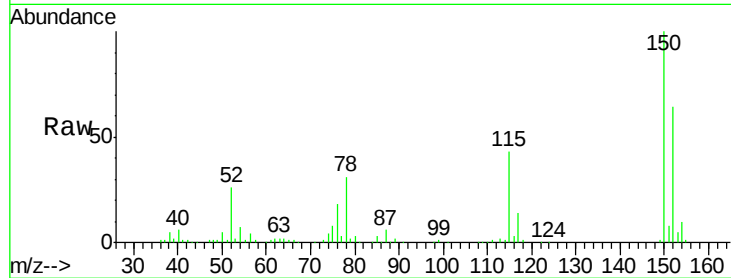
Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

ClientSampleId :

SB4(2-4)



Tgt Ion:152 Resp: 97290

Ion Ratio Lower Upper

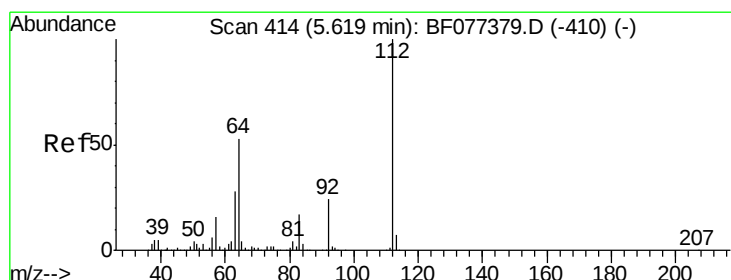
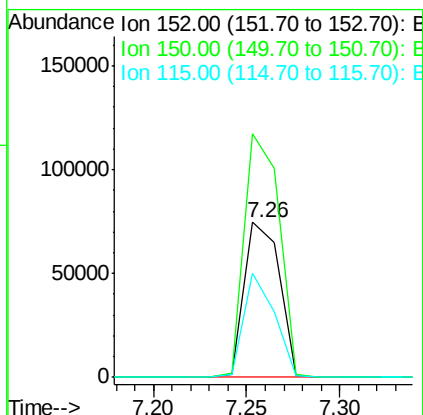
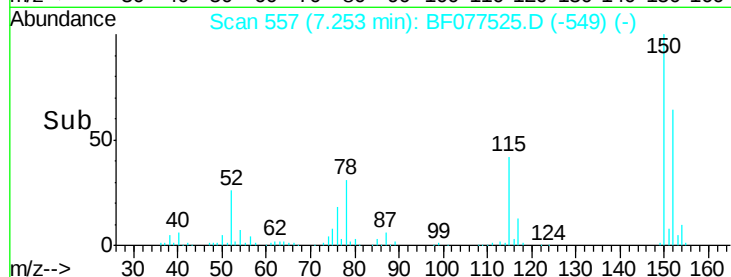
152 100

150 157.3 124.0 186.0

115 67.1 49.4 74.2

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#5

2-Fluorophenol

Concen: 33.25 ng

RT: 5.55 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

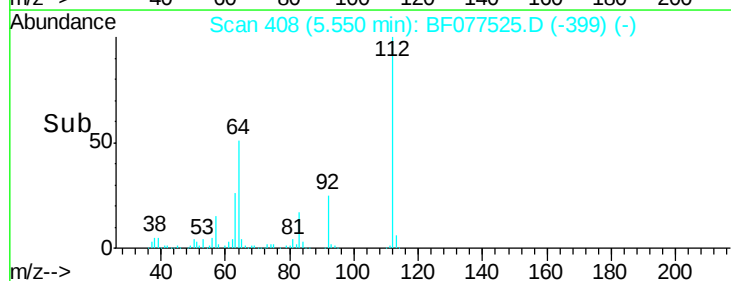
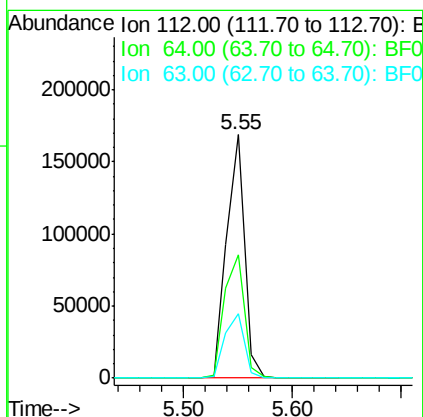
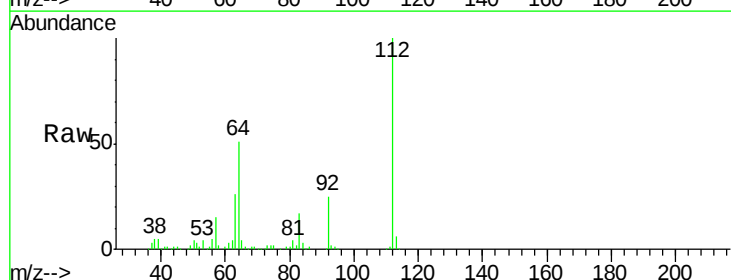
Tgt Ion:112 Resp: 193766

Ion Ratio Lower Upper

112 100

64 50.5 48.5 72.7

63 26.3 25.0 37.4





#7

Phenol-d6

Concen: 32.83 ng

RT: 6.81 min Scan# 519

Delta R.T. -0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

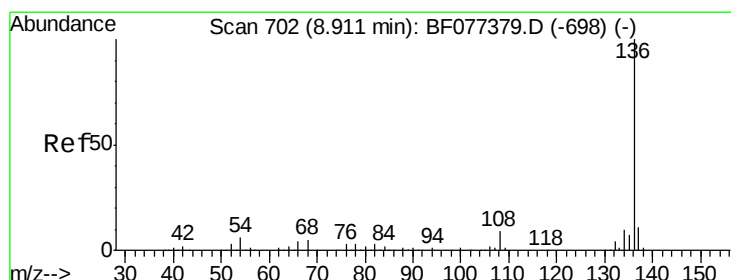
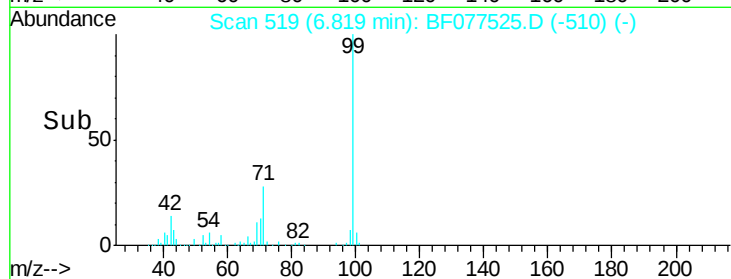
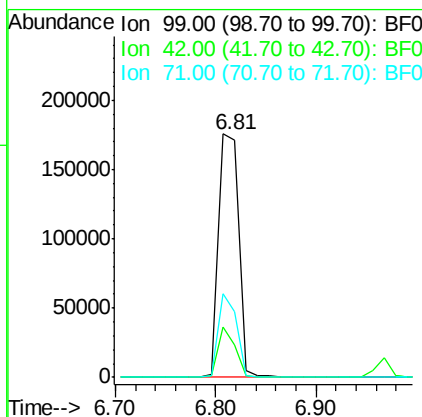
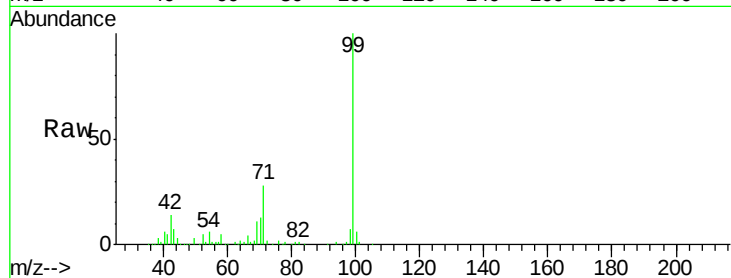
ClientSampleId :

SB4(2-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 246020 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 13.6  | 16.2  | 24.4#  |
| 71        | 27.6  | 26.7  | 40.1   |

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#21

Naphthalene-d8

Concen: 20.00 ng

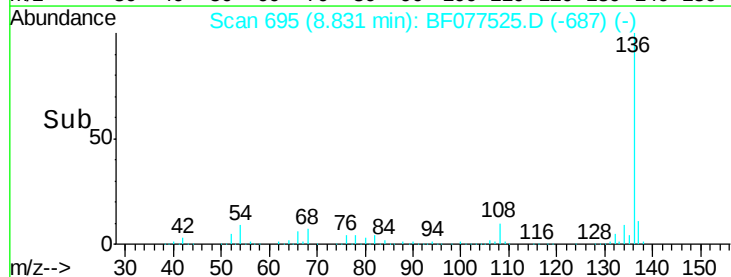
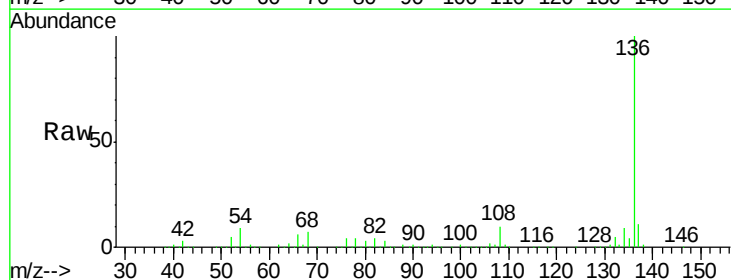
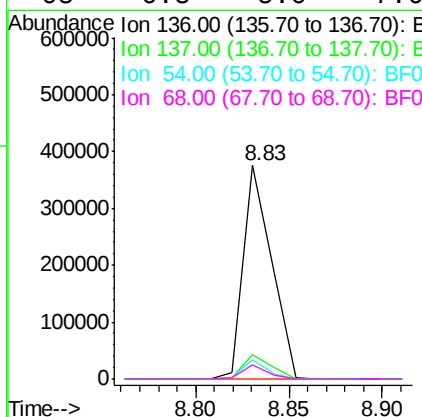
RT: 8.83 min Scan# 695

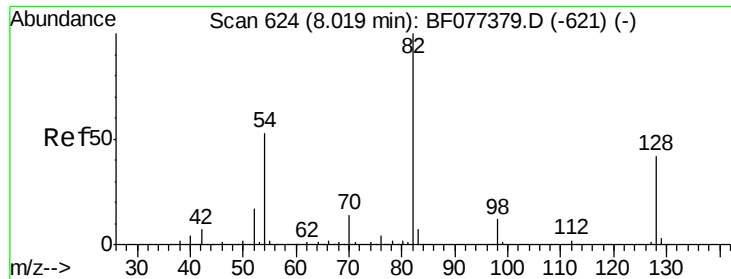
Delta R.T. -0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 395312 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.6   | 13.0   |
| 54        | 8.9   | 6.2   | 9.4    |
| 68        | 6.8   | 5.0   | 7.6    |





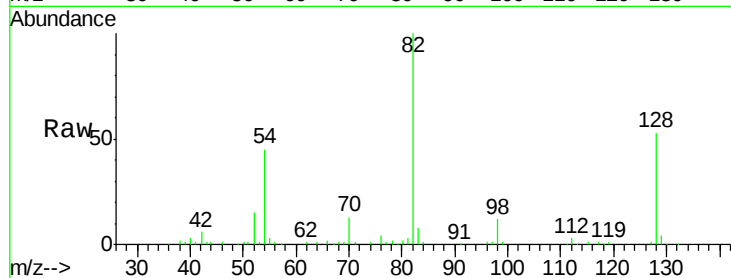
#23  
 Nitrobenzene-d5  
 Concen: 22.59 ng  
 RT: 7.95 min Scan# 618  
 Delta R.T. -0.00 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4(2-4)

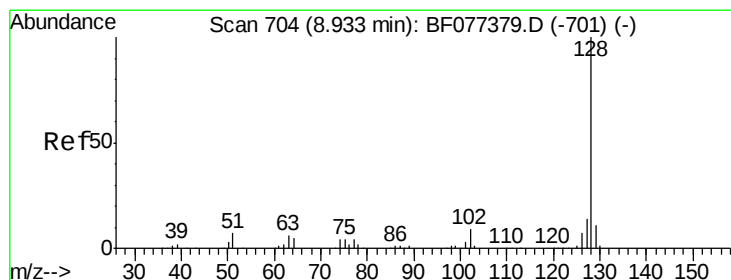
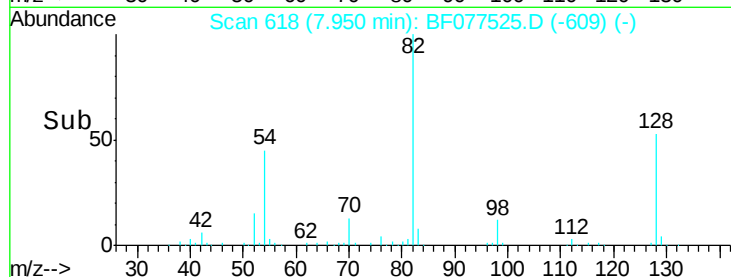
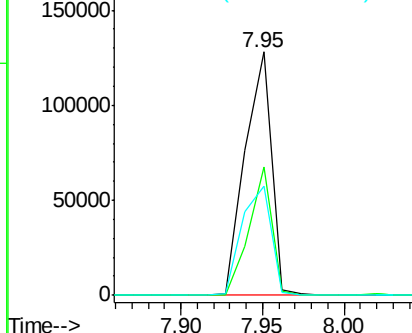
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 52.8  | 43.8  | 65.8  |
| 54      | 45.0  | 36.7  | 55.1  |

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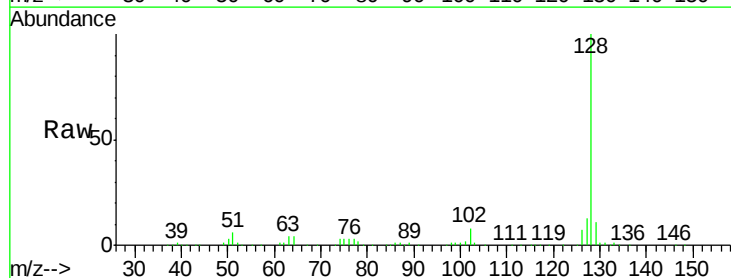


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

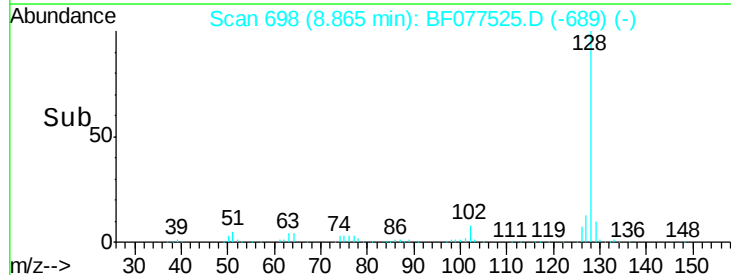
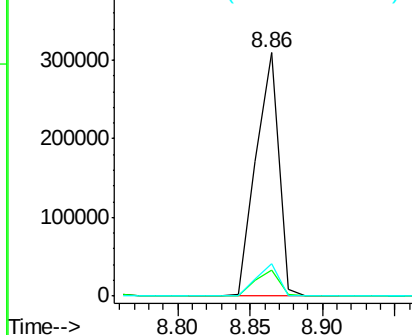


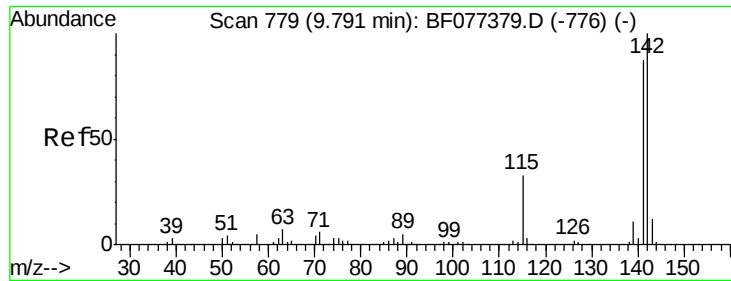
#31  
 Naphthalene  
 Concen: 17.11 ng  
 RT: 8.86 min Scan# 698  
 Delta R.T. -0.00 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.6  | 9.4   | 14.0  |
| 127     | 13.3  | 10.6  | 15.8  |



Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E





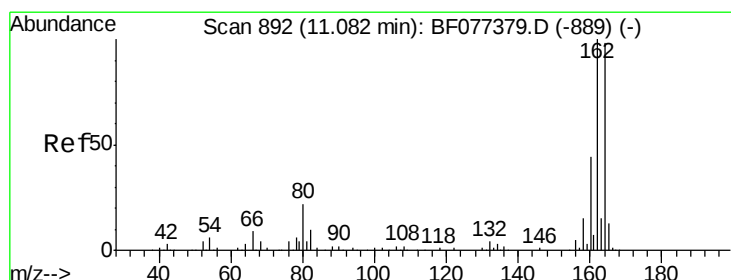
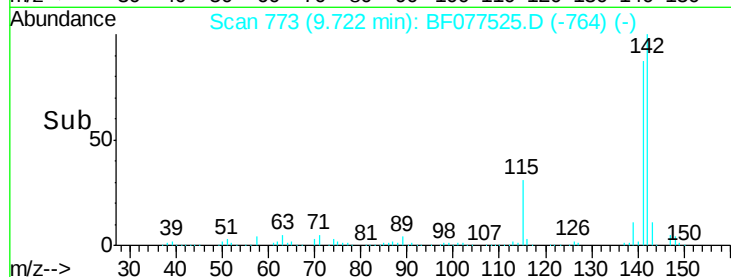
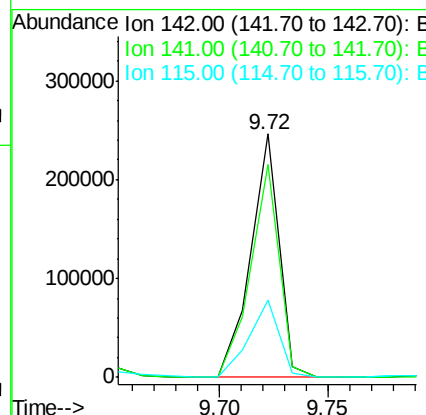
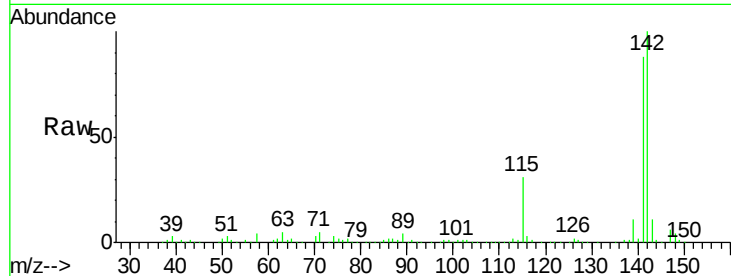
#37  
2-Methylnaphthalene  
Concen: 15.91 ng  
RT: 9.72 min Scan# 773  
Delta R.T. -0.00 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.7  | 70.7  | 106.1 |
| 115     | 31.5  | 24.2  | 36.4  |

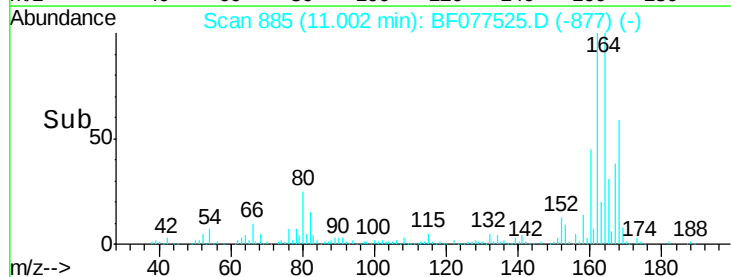
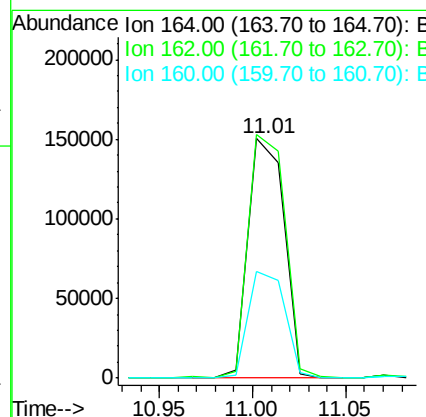
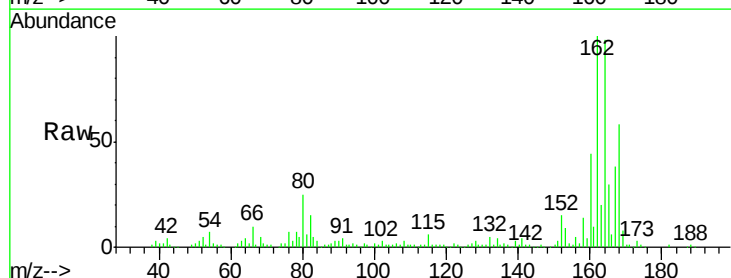
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 11.01 min Scan# 885  
Delta R.T. -0.00 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 83.2  | 124.8 |
| 160     | 44.4  | 34.6  | 52.0  |





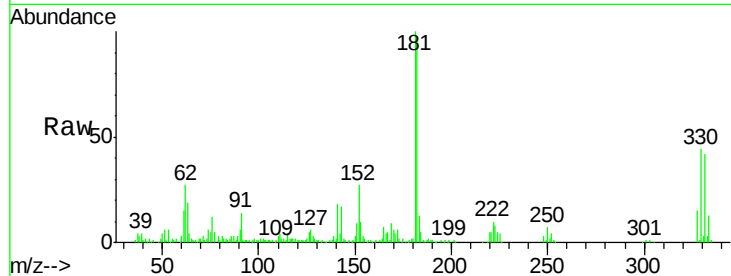
#41  
 2,4,6-Tribromophenol  
 Concen: 32.18 ng  
 RT: 11.99 min Scan# 971  
 Delta R.T. -0.00 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB4(2-4)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 77.4  | 116.2 |
| 141     | 47.1  | 28.8  | 43.2  |

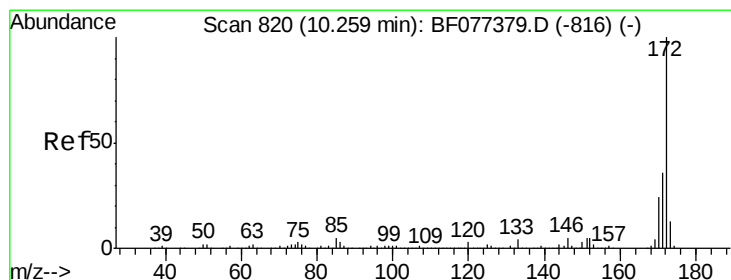
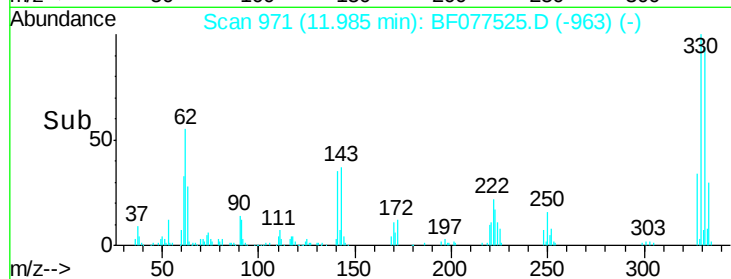
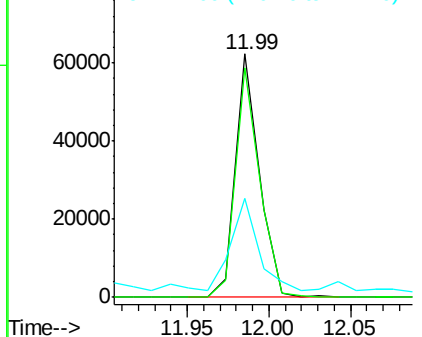
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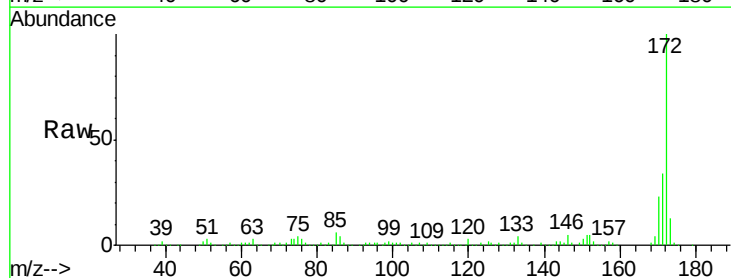
Abundance

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



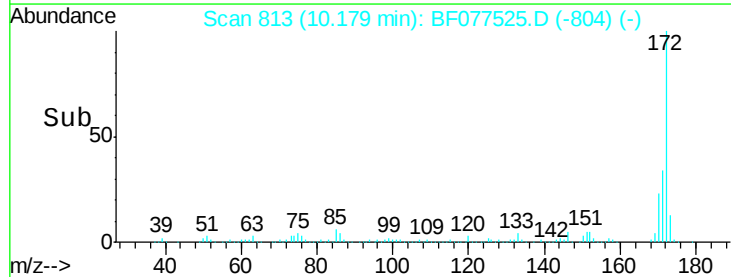
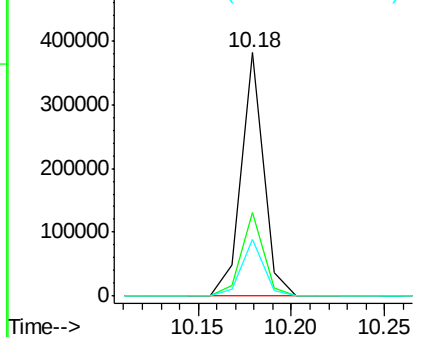
#44  
 2-Fluorobiphenyl  
 Concen: 24.86 ng  
 RT: 10.18 min Scan# 813  
 Delta R.T. -0.00 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

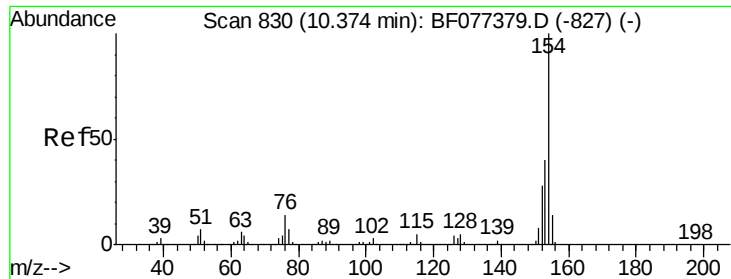
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.2  | 28.9  | 43.3  |
| 170     | 23.2  | 19.4  | 29.2  |



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





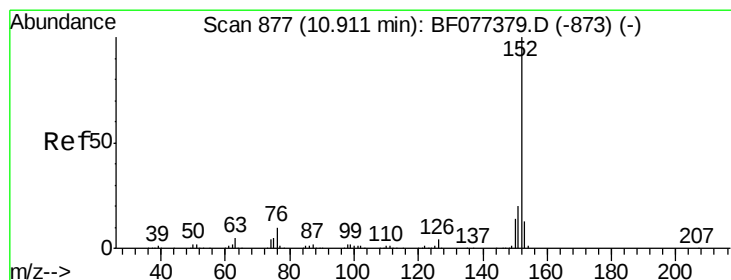
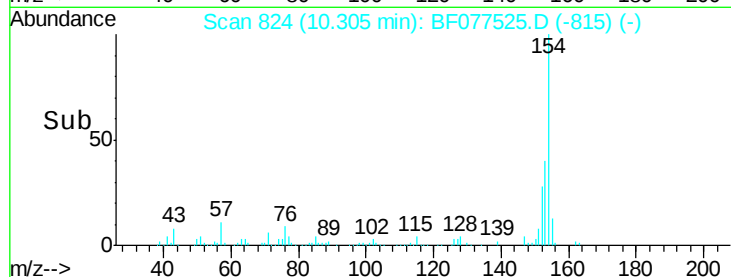
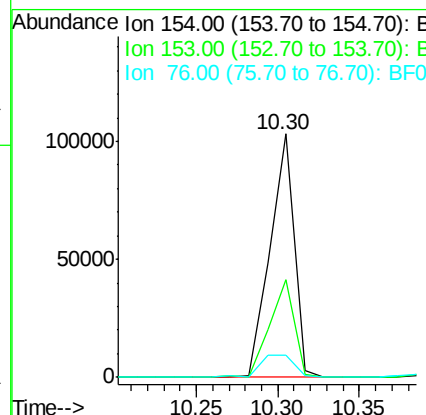
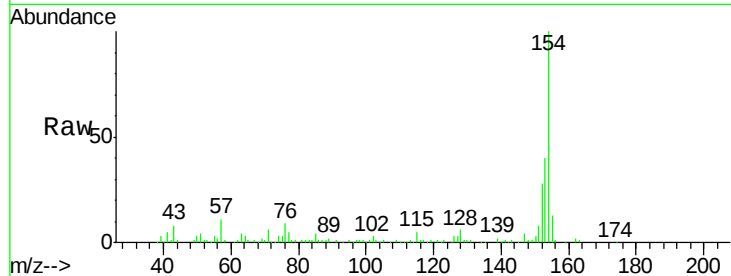
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1,1'-Biphenyl  
Concen: 7.00 ng  
RT: 10.30 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 106751 |       |       |
| 153     | 40.1  | 20.2   | 60.2  |       |
| 76      | 9.2   | 0.0    | 29.4  |       |

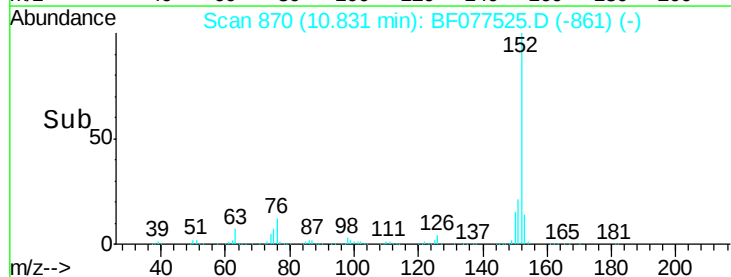
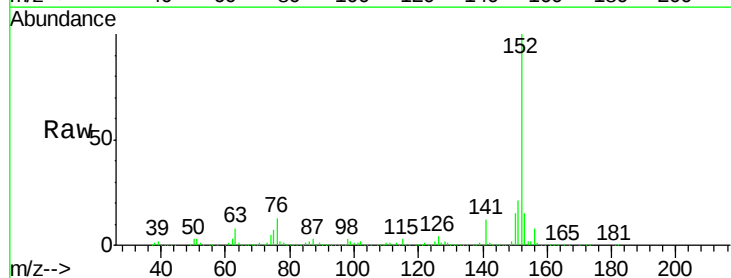
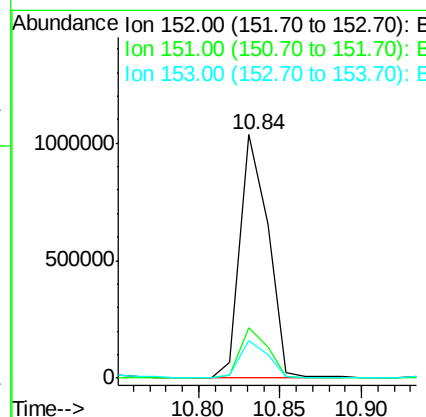
Manual Integrations  
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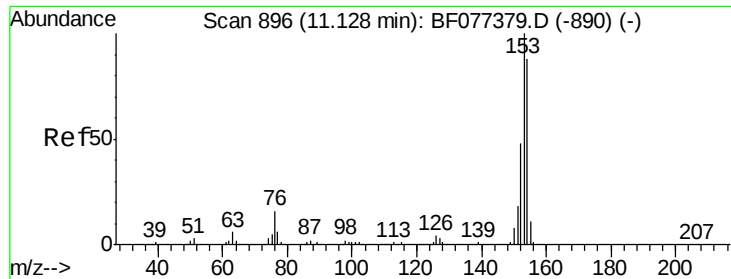
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#48  
Acenaphthylene  
Concen: 65.04 ng  
RT: 10.84 min Scan# 870  
Delta R.T. 0.00 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 152     | 100   | 1232122 |       |       |
| 151     | 20.9  | 16.1    | 24.1  |       |
| 153     | 15.2  | 10.9    | 16.3  |       |





#51

Acenaphthene

Concen: 24.18 ng

RT: 11.05 min Scan# 889

Delta R.T. -0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

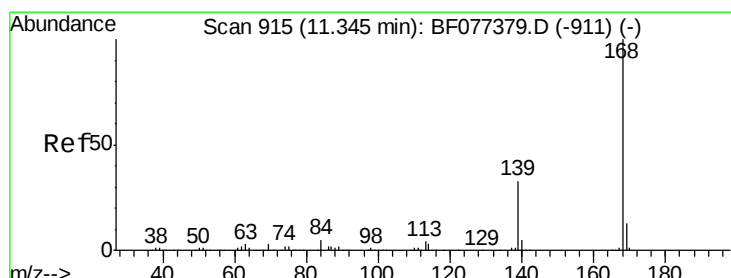
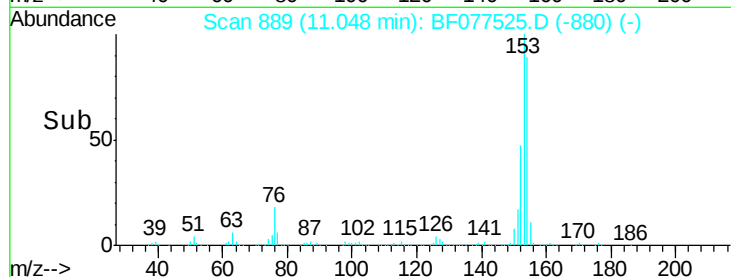
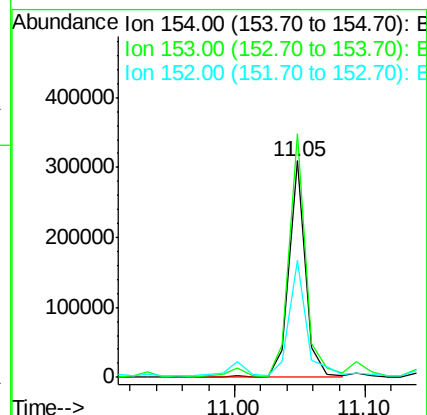
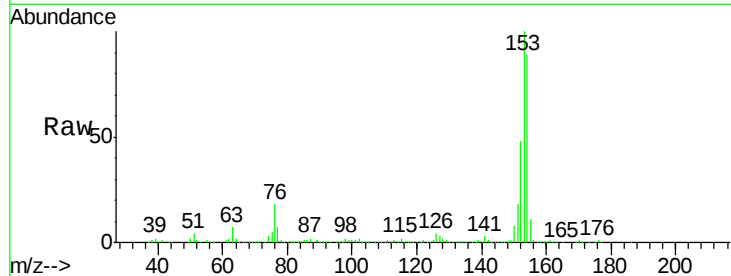
ClientSampleId :

SB4(2-4)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 273374 |       |       |
| 153     | 112.4 | 90.5   | 135.7 |       |
| 152     | 54.1  | 43.5   | 65.3  |       |

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#54

Dibenzofuran

Concen: 33.54 ng

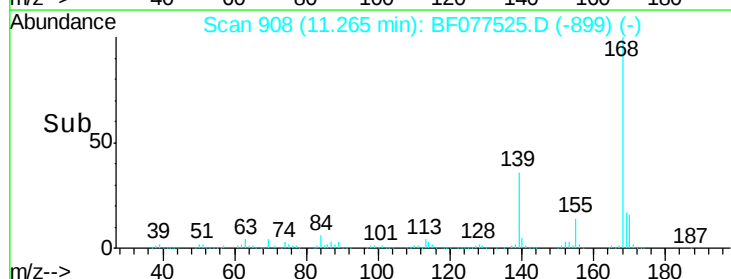
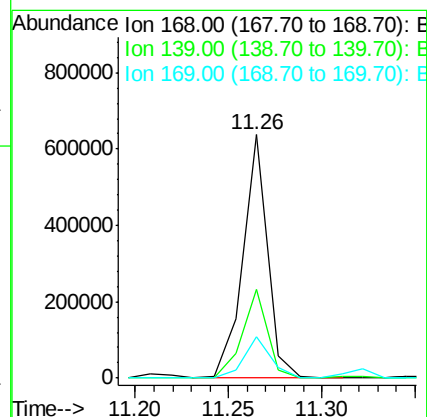
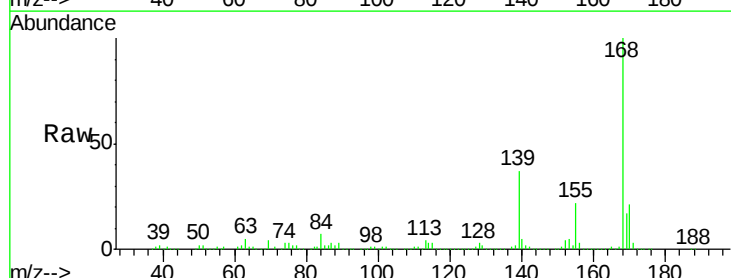
RT: 11.26 min Scan# 908

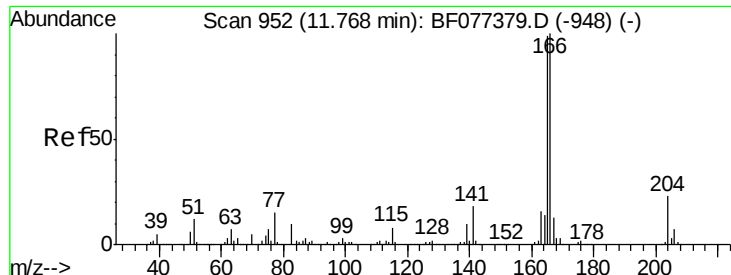
Delta R.T. -0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 585411 |       |       |
| 139     | 36.5  | 29.3   | 43.9  |       |
| 169     | 17.2  | 10.9   | 16.3  |       |





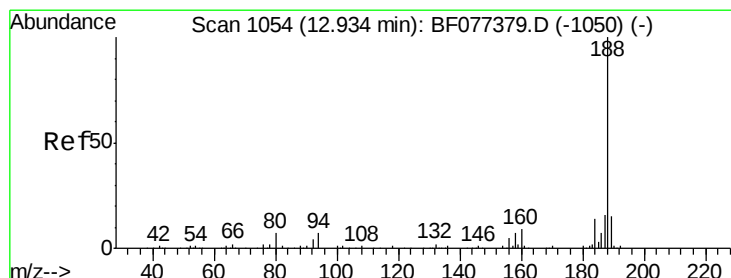
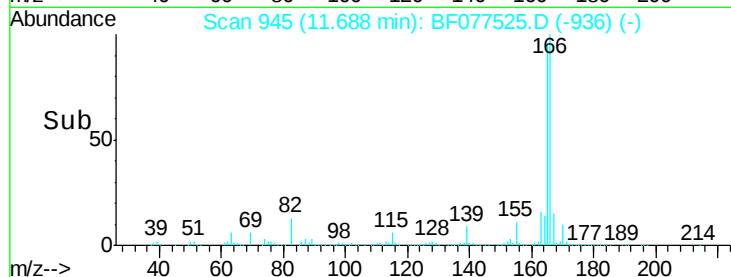
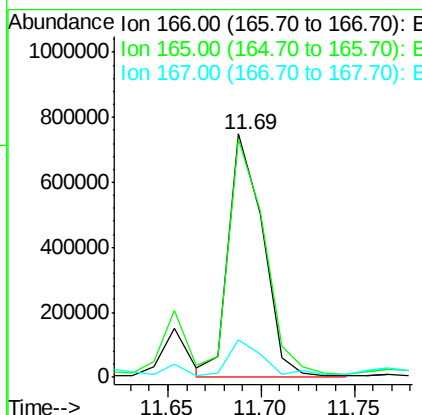
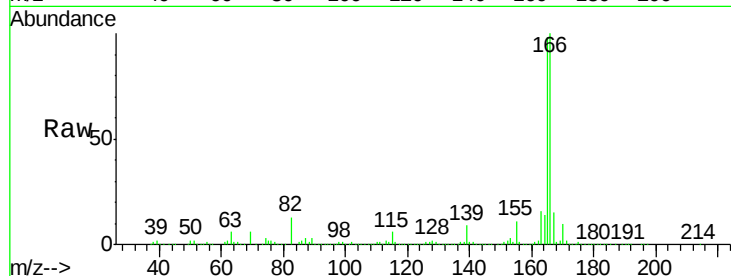
#57  
**Fluorene**  
 Concen: 68.91 ng m  
 RT: 11.69 min Scan# 945  
 Delta R.T. -0.00 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB4(2-4)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 961606 |       |       |
| 165     | 98.0  | 77.6   | 116.4 |       |
| 167     | 15.5  | 10.6   | 16.0  |       |

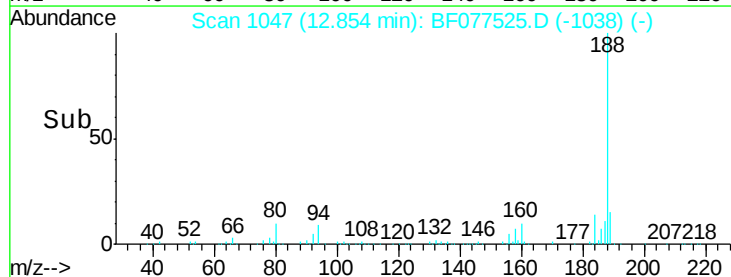
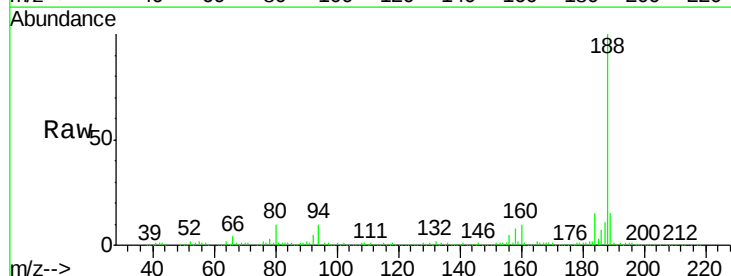
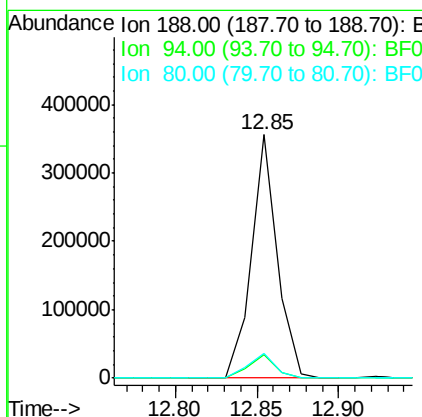
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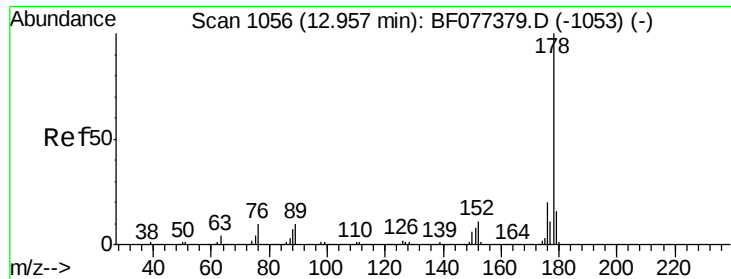
apatel  
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#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 12.85 min Scan# 1047  
 Delta R.T. 0.01 min  
 Lab File: BF077525.D  
 Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 389287 |       |       |
| 94      | 9.6   | 7.4    | 11.2  |       |
| 80      | 10.2  | 8.0    | 12.0  |       |





#70

Phenanthrene

Concen: 179.14 ng

RT: 12.89 min Scan# 1050

Delta R.T. 0.01 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

ClientSampleId :

SB4(2-4)

Tgt Ion:178 Resp: 4041970

Ion Ratio Lower Upper

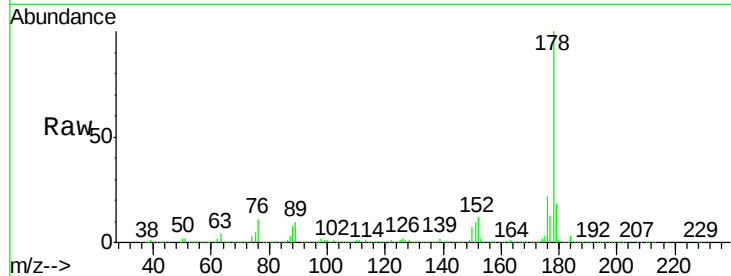
178 100

176 22.1 15.5 23.3

179 18.1 12.2 18.2

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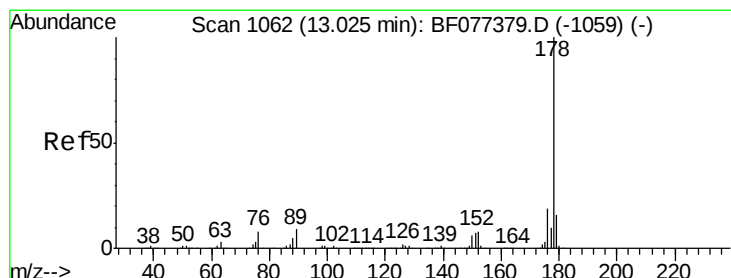
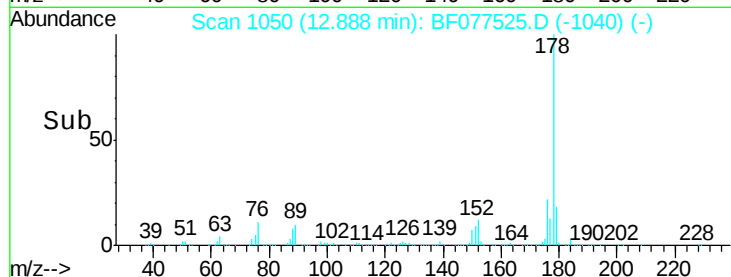
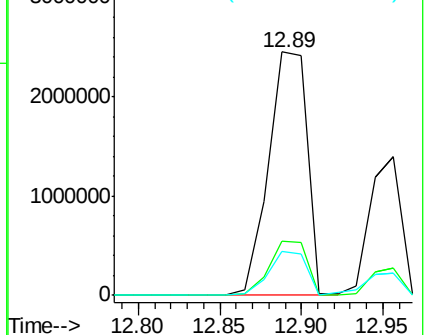
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 81.25 ng

RT: 12.95 min Scan# 1055

Delta R.T. 0.01 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Tgt Ion:178 Resp: 1819318

Ion Ratio Lower Upper

178 100

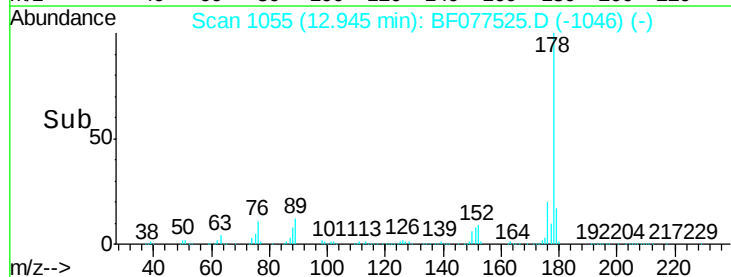
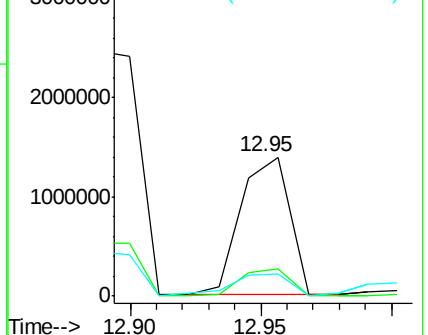
176 19.7 15.4 23.0

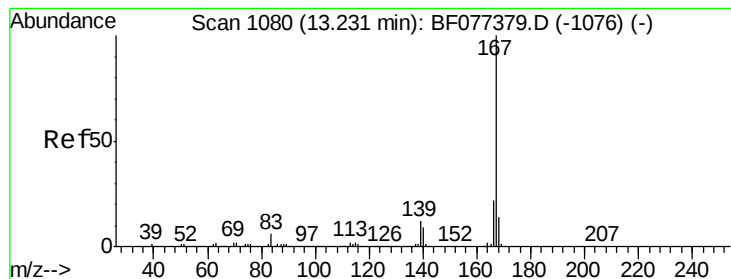
179 17.2 12.9 19.3

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 7.62 ng

RT: 13.15 min Scan# 1073

Delta R.T. 0.00 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

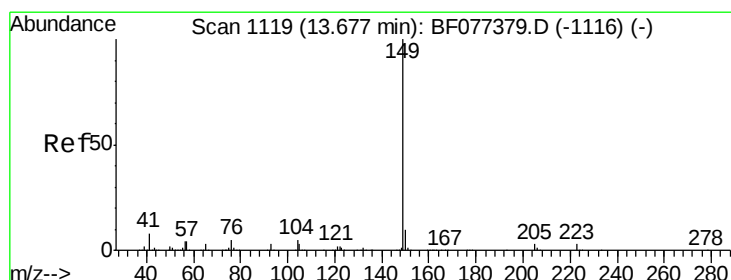
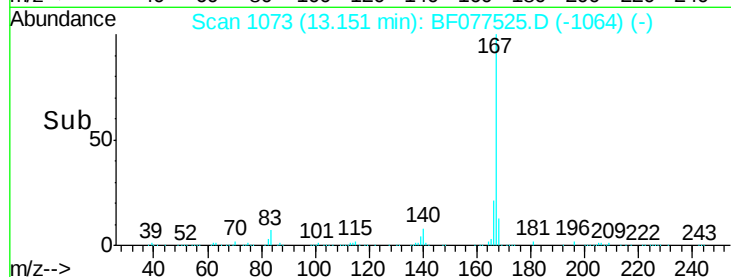
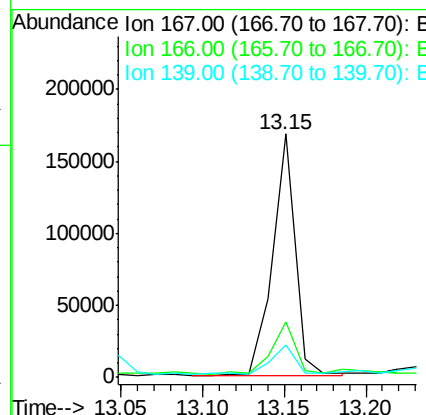
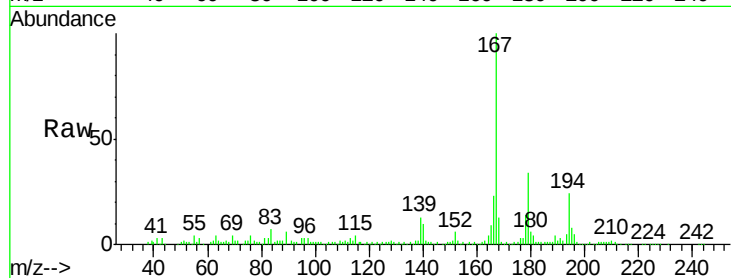
ClientSampleId :

SB4(2-4)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 162150 |       |       |
| 166     | 22.9  | 17.6   | 26.4  |       |
| 139     | 13.1  | 9.9    | 14.9  |       |

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#73

Di-n-butylphthalate

Concen: 4.06 ng

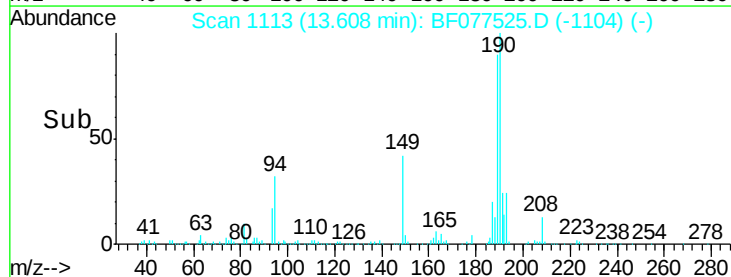
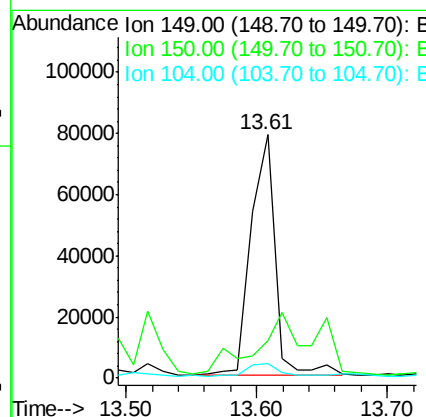
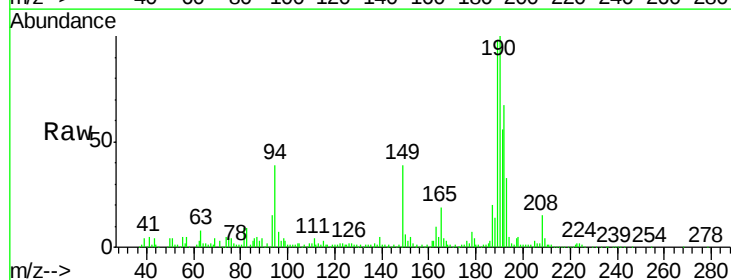
RT: 13.61 min Scan# 1113

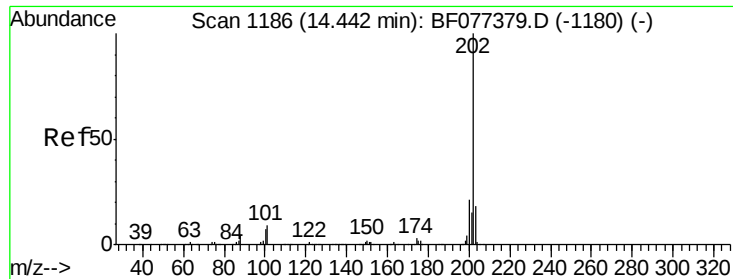
Delta R.T. 0.01 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 101470 |       |       |
| 150     | 15.4  | 7.8    | 11.8# |       |
| 104     | 6.1   | 4.1    | 6.1   |       |





#74

Fluoranthene

Concen: 152.43 ng

RT: 14.37 min Scan# 1180

Delta R.T. 0.02 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

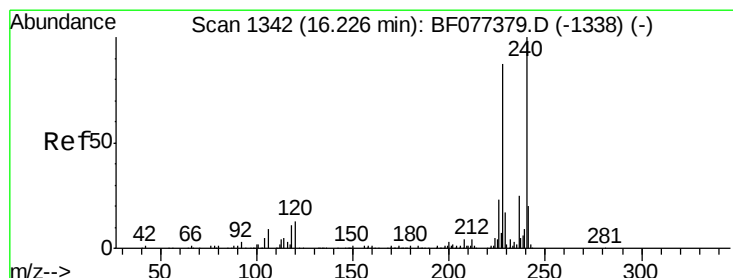
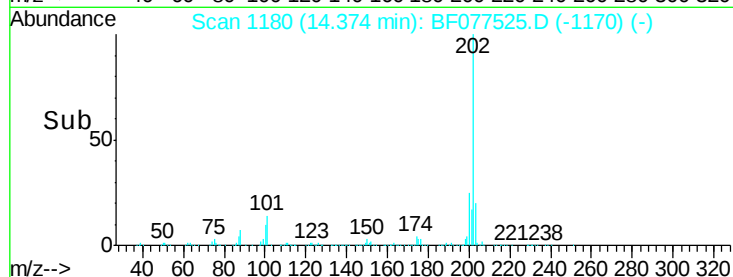
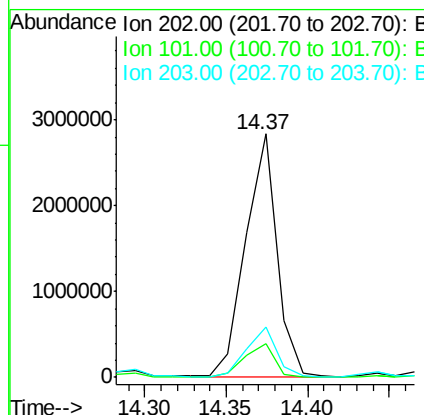
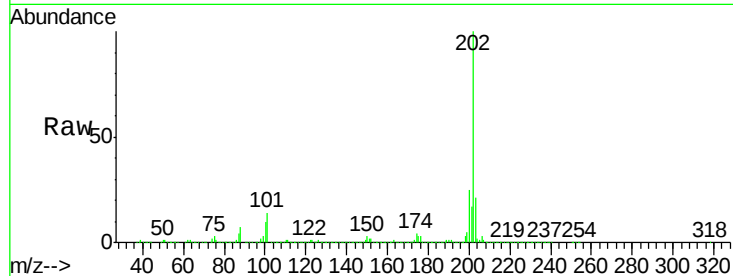
ClientSampleId :

SB4(2-4)

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 3756804 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 14.1  | 0.0   | 30.8    |
| 203      | 20.8  | 0.0   | 37.7    |

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#75

Chrysene-d12

Concen: 20.00 ng

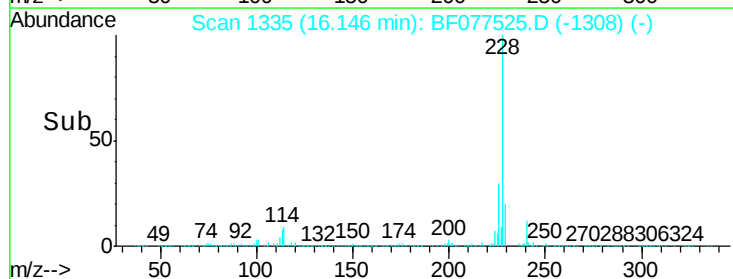
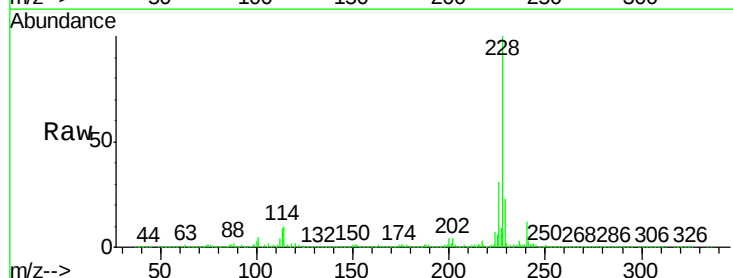
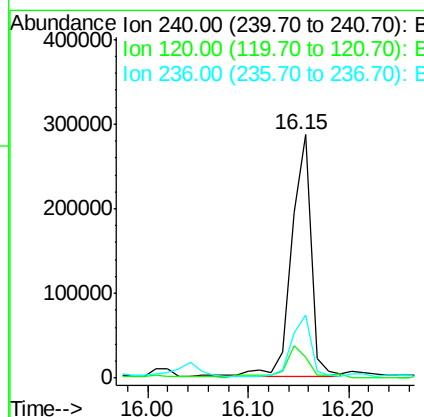
RT: 16.15 min Scan# 1335

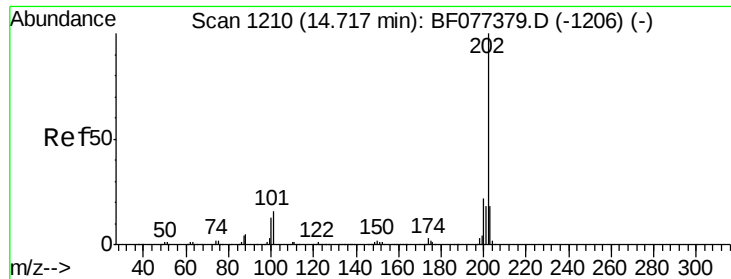
Delta R.T. 0.01 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 381324 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 19.4  | 8.8   | 13.2#  |
| 236      | 27.5  | 20.7  | 31.1   |





#77

Pyrene

Concen: 192.67 ng

RT: 14.65 min Scan# 1204

Delta R.T. 0.02 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

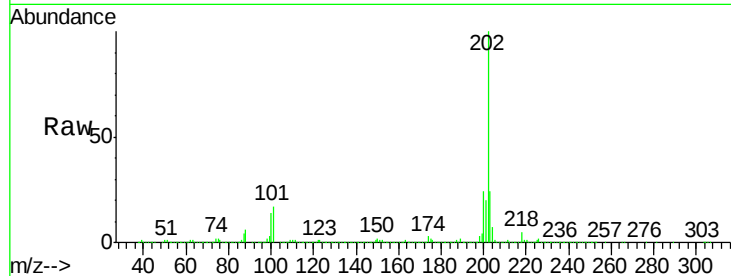
ClientSampleId :

SB4(2-4)

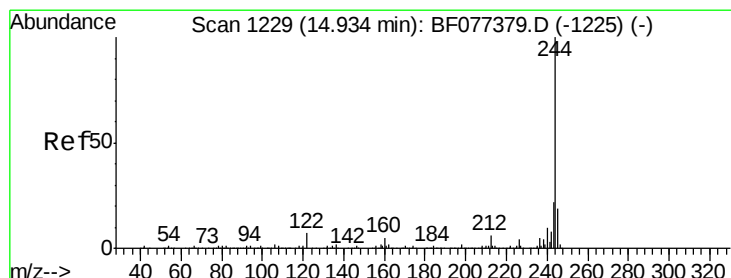
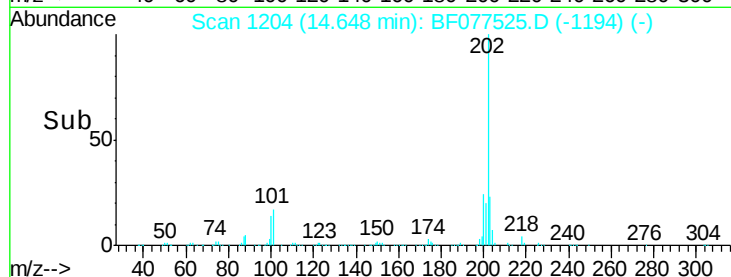
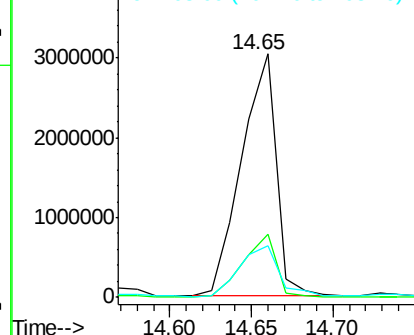
|     |       |       |       |         |
|-----|-------|-------|-------|---------|
| Tgt | Ion   | 202   | Resp: | 4494120 |
| Ion | Ratio | Lower | Upper |         |
| 202 | 100   |       |       |         |
| 200 | 24.0  | 17.1  | 25.7  |         |
| 203 | 23.9  | 14.2  | 21.2  |         |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 21.83 ng

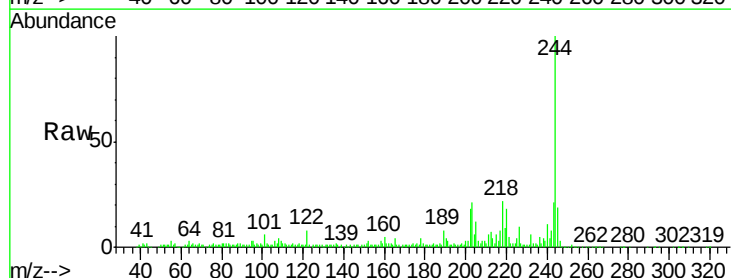
RT: 14.85 min Scan# 1222

Delta R.T. 0.00 min

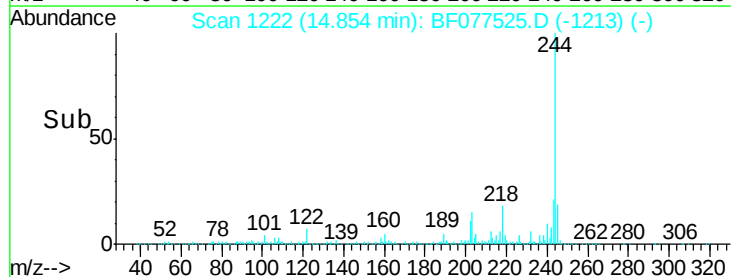
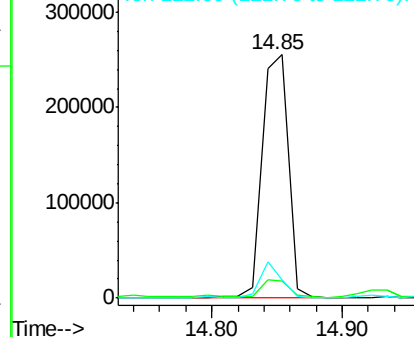
Lab File: BF077525.D

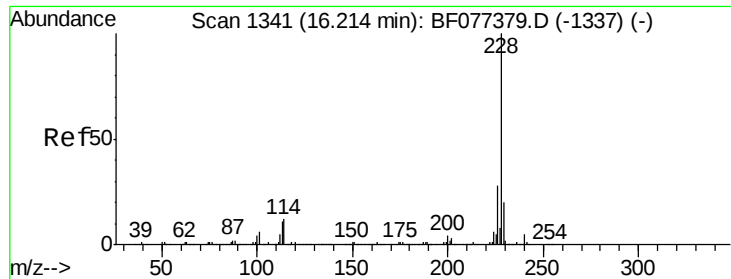
Acq: 2 Mar 2015 16:33

|     |       |       |       |        |
|-----|-------|-------|-------|--------|
| Tgt | Ion   | 244   | Resp: | 356067 |
| Ion | Ratio | Lower | Upper |        |
| 244 | 100   |       |       |        |
| 212 | 7.1   | 5.2   | 7.8   |        |
| 122 | 7.6   | 7.8   | 11.8  |        |



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





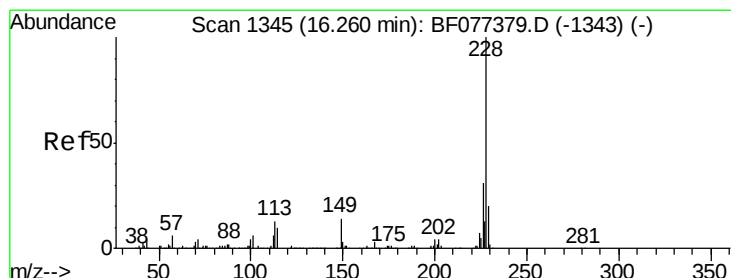
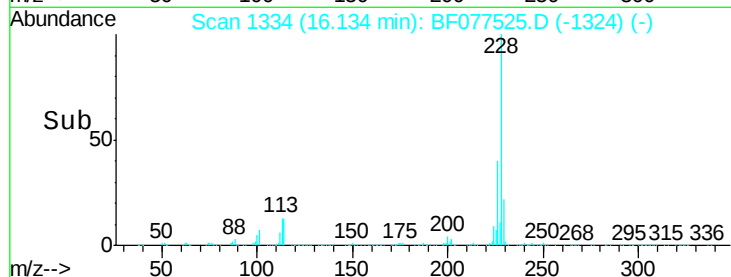
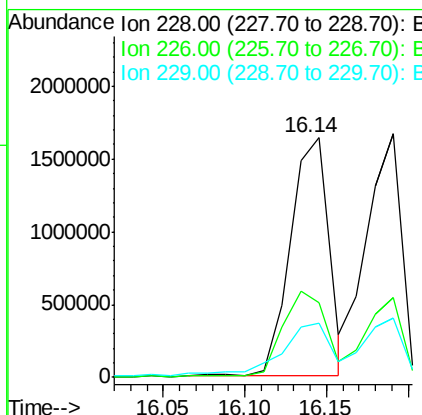
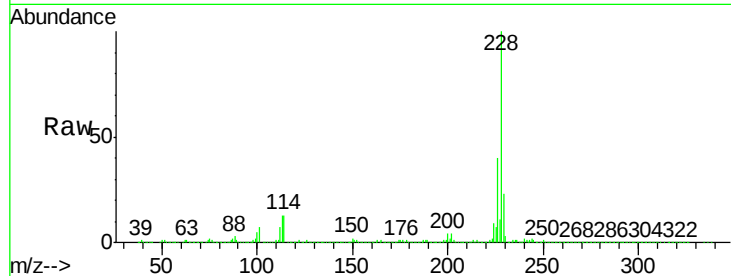
#80  
Benzo(a)anthracene  
Concen: 120.23 ng  
RT: 16.14 min Scan# 1334  
Delta R.T. 0.02 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

Tgt Ion:228 Resp: 2686937  
Ion Ratio Lower Upper  
228 100  
226 39.9 22.0 33.0#  
229 23.0 15.8 23.8

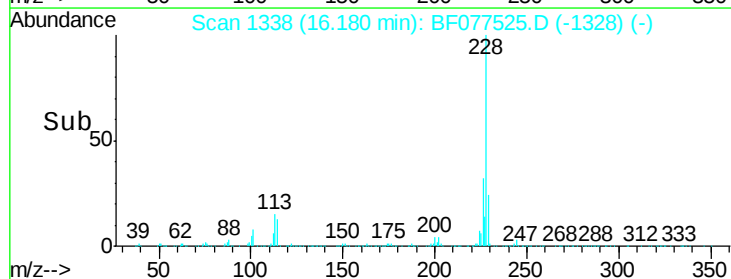
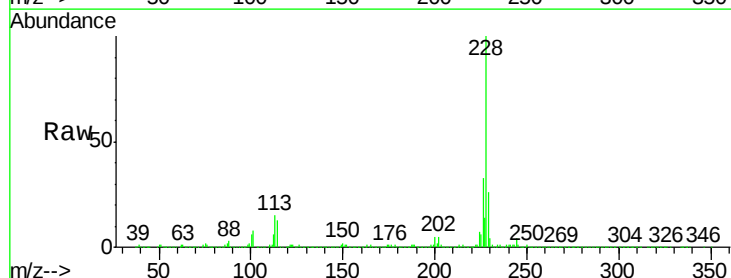
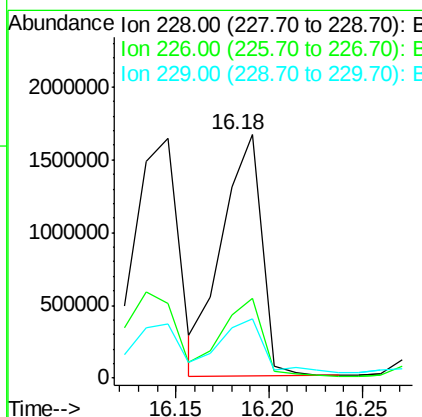
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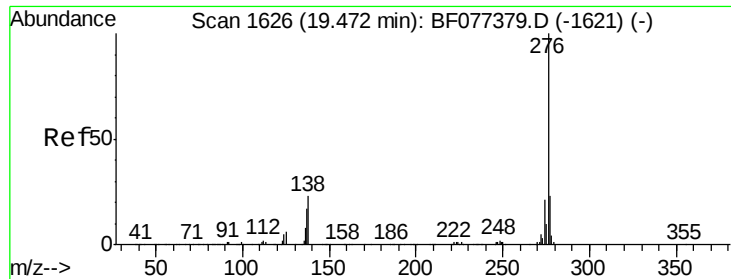
apatel  
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#82  
Chrysene  
Concen: 117.31 ng  
RT: 16.18 min Scan# 1338  
Delta R.T. 0.01 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Tgt Ion:228 Resp: 2461773  
Ion Ratio Lower Upper  
228 100  
226 32.8 24.9 37.3  
229 26.3 16.4 24.6#





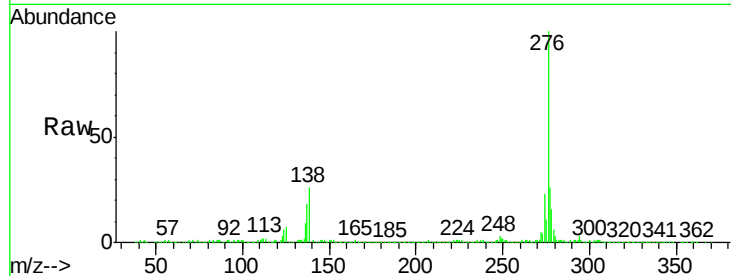
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 52.57 ng m  
RT: 19.35 min Scan# 1615  
Delta R.T. 0.07 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

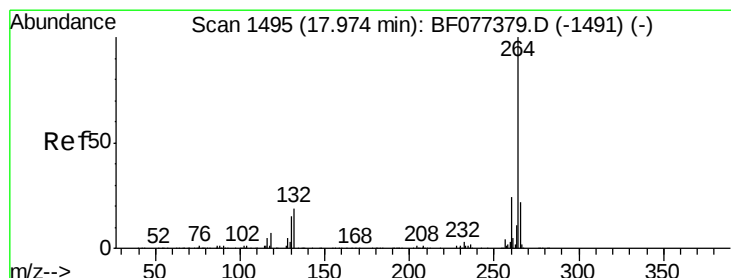
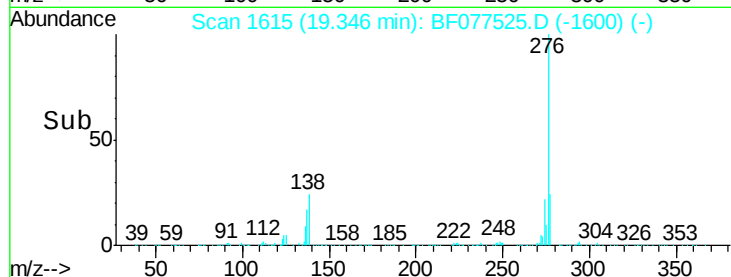
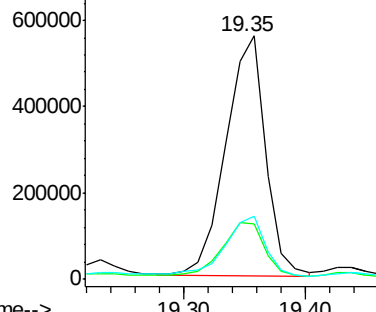
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 21.2  | 31.8# |
| 277     | 0.0   | 20.0  | 30.0# |

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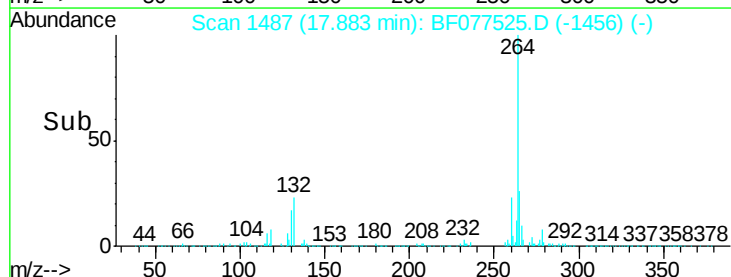
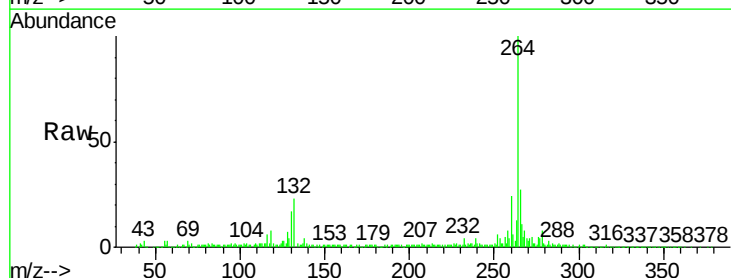
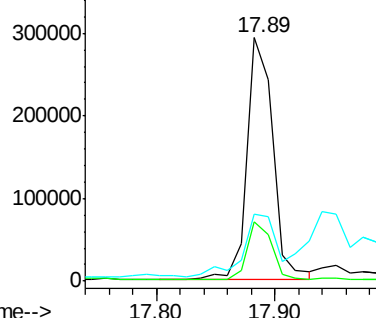
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

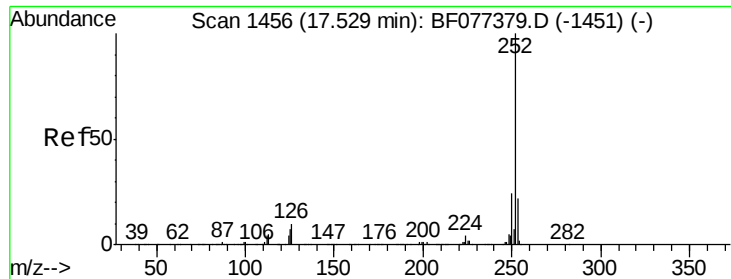


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.89 min Scan# 1487  
Delta R.T. 0.06 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.3  | 28.9  |
| 265     | 27.4  | 16.8  | 25.2# |

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





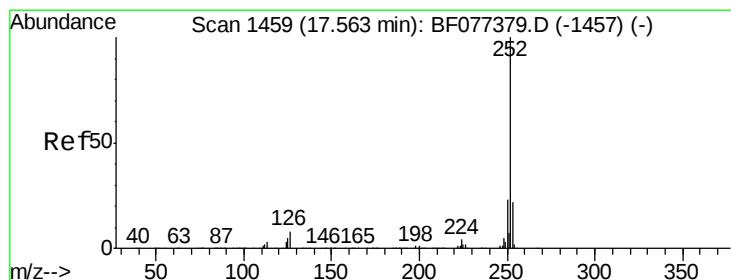
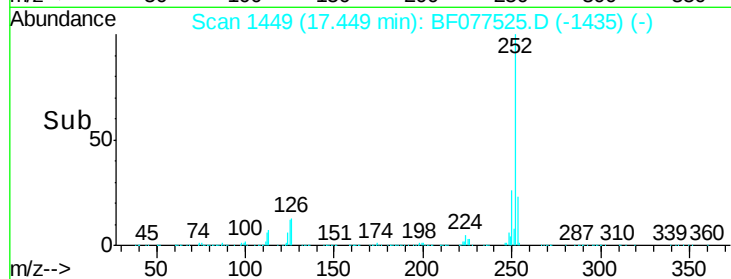
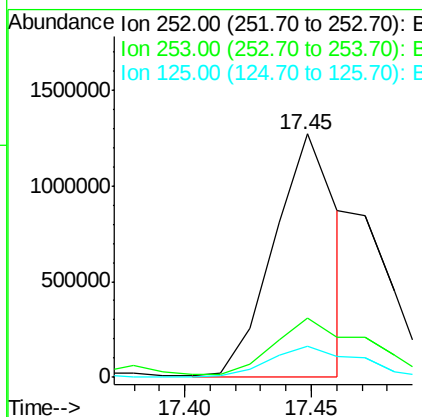
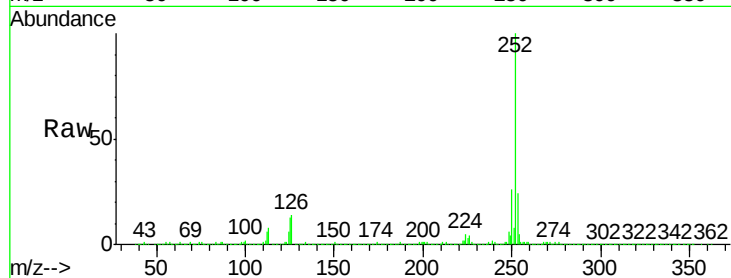
#87  
Benzo(b)fluoranthene  
Concen: 87.47 ng m  
RT: 17.45 min Scan# 1449  
Delta R.T. 0.06 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.6  | 26.4  |
| 125     | 12.7  | 5.4   | 8.2#  |

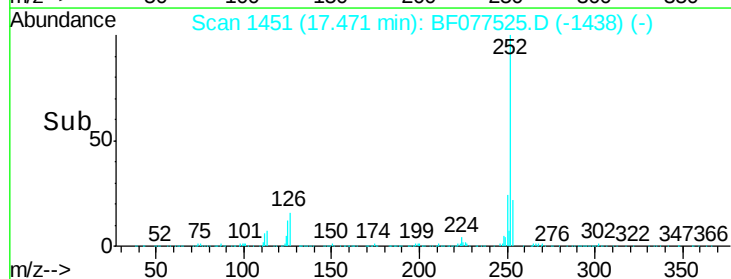
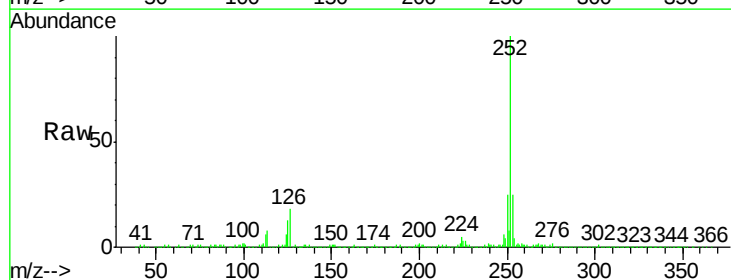
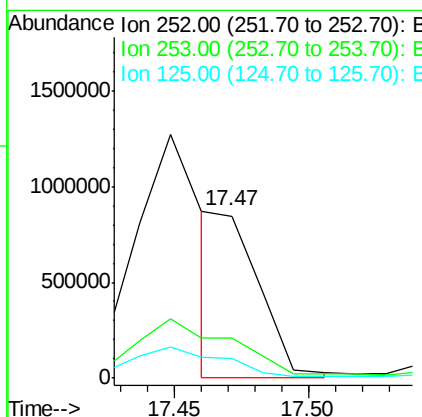
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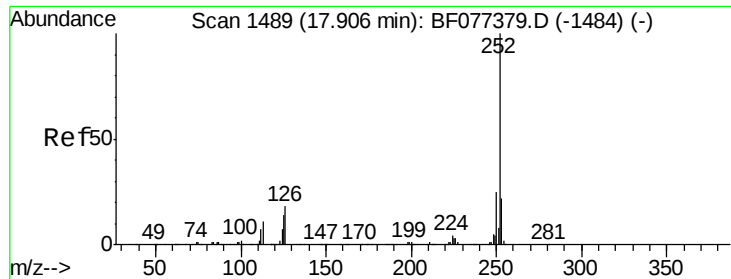
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#88  
Benzo(k)fluoranthene  
Concen: 37.59 ng m  
RT: 17.47 min Scan# 1451  
Delta R.T. 0.05 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 18.1  | 27.1  |
| 125     | 12.5  | 10.1  | 15.1  |





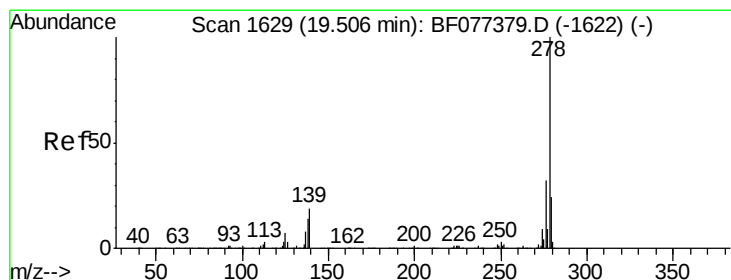
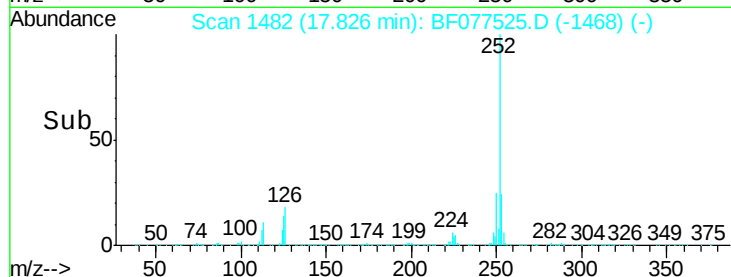
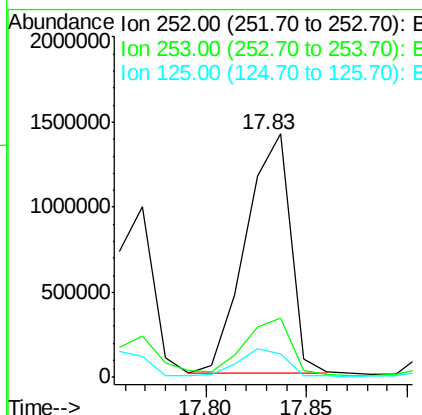
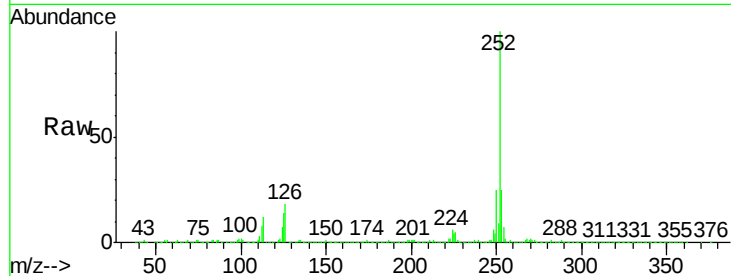
#89  
Benzo(a)pyrene  
Concen: 89.30 ng m  
RT: 17.83 min Scan# 1482  
Delta R.T. 0.06 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

Instrument :  
BNA\_F  
ClientSampleId :  
SB4(2-4)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 18.2  | 27.2  |
| 125     | 14.0  | 8.3   | 12.5  |

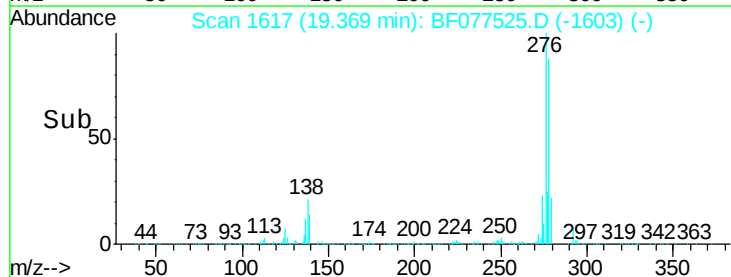
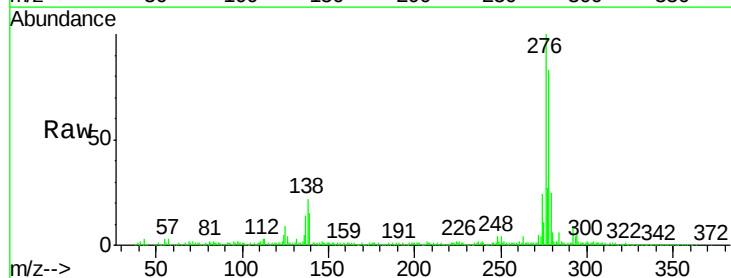
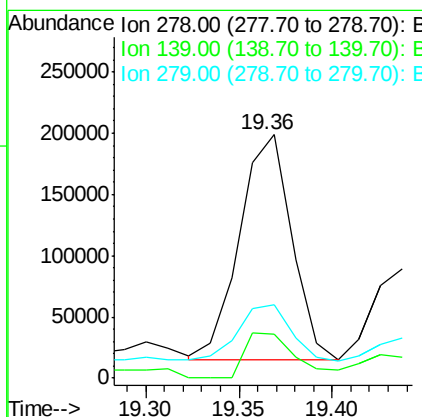
Manual Integrations  
APPROVED

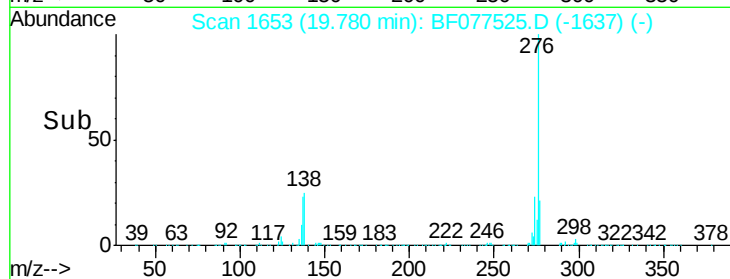
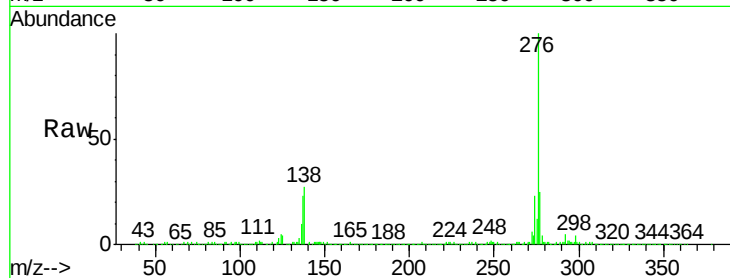
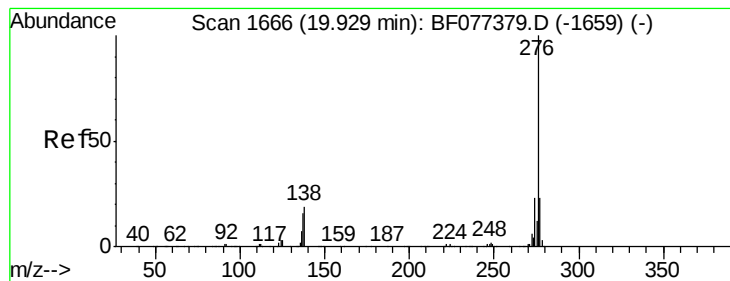
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#90  
Dibenzo(a,h)anthracene  
Concen: 15.44 ng  
RT: 19.36 min Scan# 1617  
Delta R.T. 0.06 min  
Lab File: BF077525.D  
Acq: 2 Mar 2015 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.9  | 14.3  | 21.5  |
| 279     | 30.2  | 19.0  | 28.6  |





#91

Benzo(g,h,i)perylene

Concen: 53.77 ng

RT: 19.78 min Scan# 1653

Delta R.T. 0.08 min

Lab File: BF077525.D

Acq: 2 Mar 2015 16:33

Instrument :

BNA\_F

ClientSampleId :

SB4(2-4)

Tgt Ion: 276 Resp: 1251404

Ion Ratio Lower Upper

276 100

277 24.8 18.9 28.3

138 27.2 20.5 30.7

Manual Integrations  
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