

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\  
 Data File : BF078673.D  
 Acq On : 21 Apr 2015 7:58  
 Operator : TP/IZ  
 Sample : G1943-07 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-C-1

Manual Integrations  
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 4/21/2015 5:04:34 PM

Quant Time: Apr 21 08:47:18 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 20 16:32:38 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.85  | 152  | 30121    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.02  | 136  | 119613   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 11.20 | 164  | 61325    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 13.94 | 188  | 119973   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 17.81 | 240  | 124418   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 19.54 | 264  | 125056   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 3.88  | 112  | 17297m   | 9.47  | ng    | 0.01     |
| 7) Phenol-d6                | 5.36  | 99   | 23661m   | 10.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.80  | 82   | 11952    | 6.06  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.67 | 330  | 4928     | 9.69  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 10.02 | 172  | 30920    | 7.21  | ng    | -0.01    |
| 78) Terphenyl-d14           | 16.46 | 244  | 35690    | 6.48  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene            | 13.98 | 178  | 148945   | 21.46 | ng    | 99       |
| 71) Anthracene              | 14.07 | 178  | 40349    | 5.90  | ng    | 98       |
| 72) Carbazole               | 14.40 | 167  | 14831    | 2.31  | ng    | 97       |
| 74) Fluoranthene            | 15.86 | 202  | 319219   | 43.62 | ng    | 96       |
| 77) Pyrene                  | 16.17 | 202  | 290587   | 37.20 | ng    | # 96     |
| 80) Benzo(a)anthracene      | 17.79 | 228  | 145299   | 19.63 | ng    | 99       |
| 82) Chrysene                | 17.83 | 228  | 127776   | 18.37 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene  | 20.74 | 276  | 84606    | 10.72 | ng    | # 89     |
| 87) Benzo(b)fluoranthene    | 19.11 | 252  | 169496m  | 21.93 | ng    |          |
| 88) Benzo(k)fluoranthene    | 19.12 | 252  | 64812m   | 9.44  | ng    |          |
| 89) Benzo(a)pyrene          | 19.47 | 252  | 119799   | 17.76 | ng    | # 94     |
| 90) Dibenzo(a,h)anthracene  | 20.75 | 278  | 18342m   | 2.72  | ng    |          |
| 91) Benzo(a,h,i)perylene    | 21.06 | 276  | 75746    | 11.19 | ng    | 97       |

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

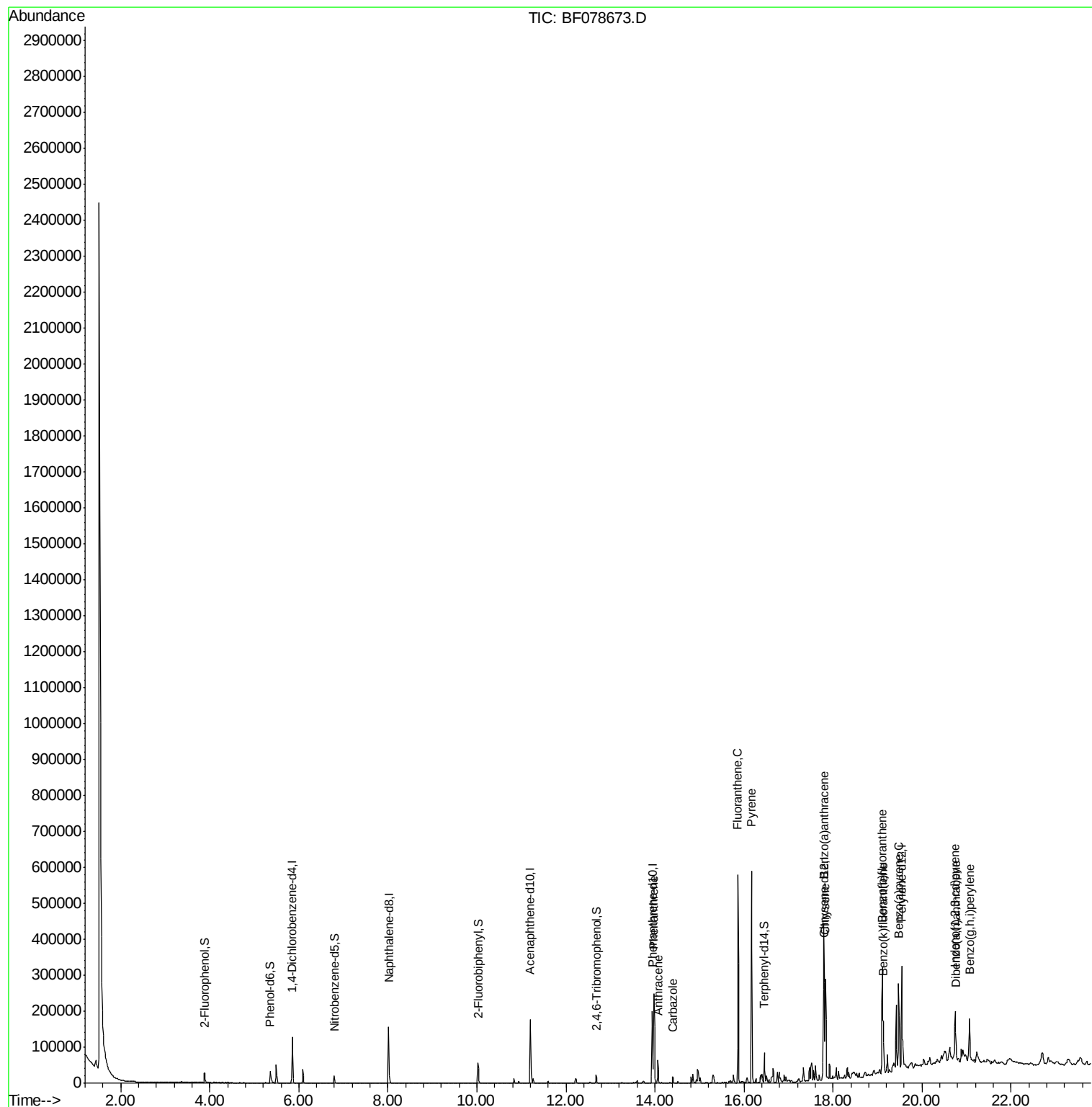
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042015\  
Data File : BF078673.D  
Acq On : 21 Apr 2015 7:58  
Operator : TP/IZ  
Sample : G1943-07 10X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

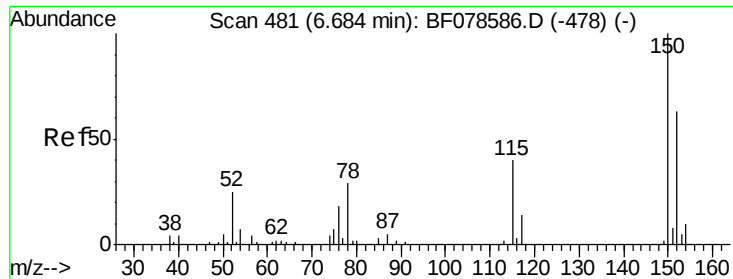
Instrument :  
BNA\_F  
ClientSampleId :  
SP-C-1

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Quant Time: Apr 21 08:47:18 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 20 16:32:38 2015  
Response via : Initial Calibration





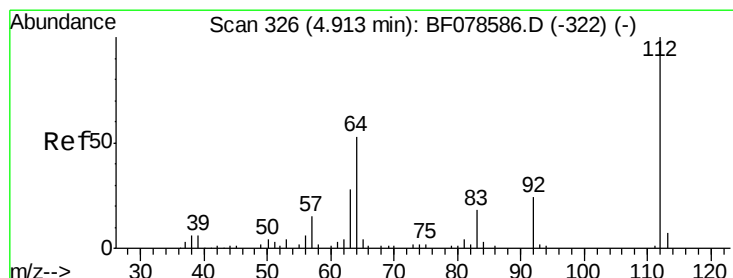
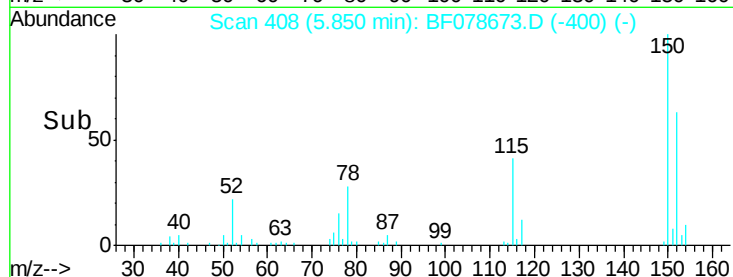
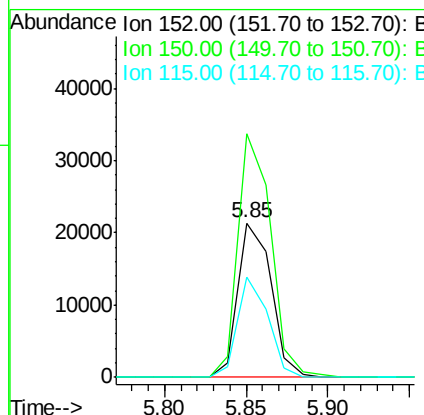
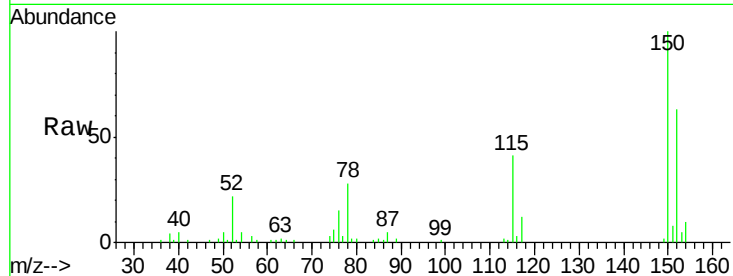
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.85 min Scan# 408  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-C-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.0 | 125.9 | 188.9 |
| 115     | 65.4  | 52.7  | 79.1  |

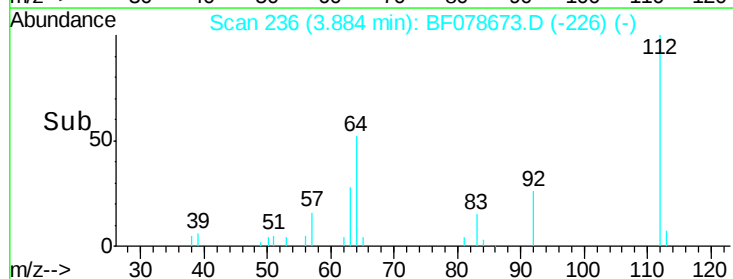
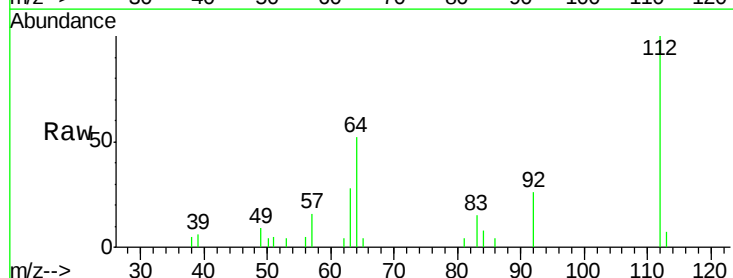
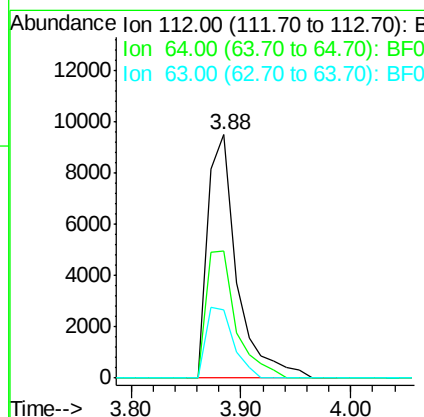
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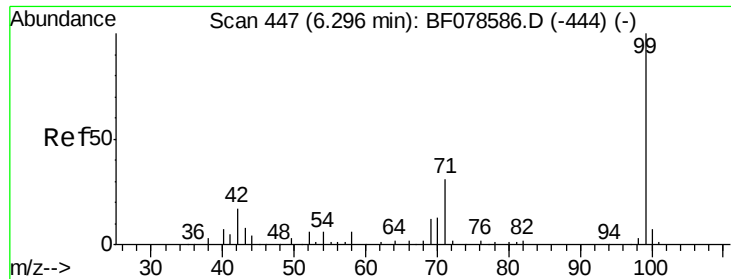
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#5  
 2-Fluorophenol  
 Concen: 9.47 ng m  
 RT: 3.88 min Scan# 236  
 Delta R.T. 0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.2  | 39.9  | 59.9  |
| 63      | 28.0  | 20.2  | 30.4  |





#7

Phenol-d6

Concen: 10.33 ng/mL

RT: 5.36 min Scan# 365

Delta R.T. 0.00 min

Lab File: BF078673.D

Acq: 21 Apr 2015 7:58

Instrument :

BNA\_F

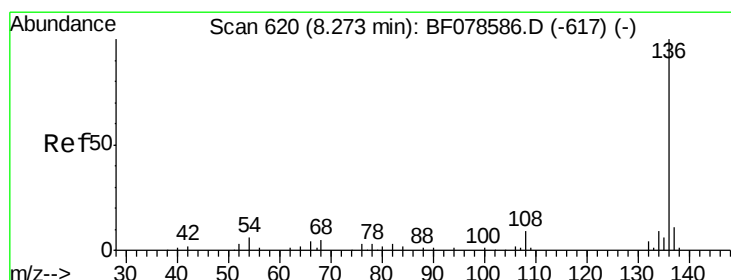
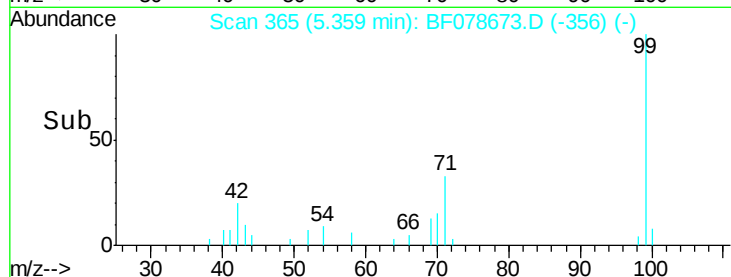
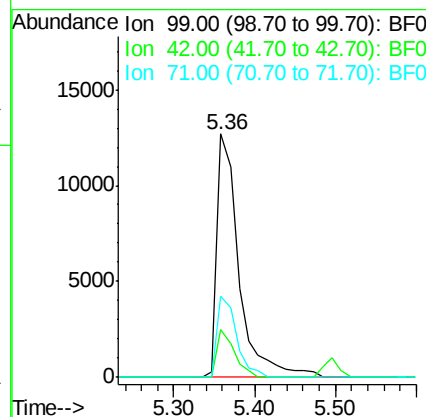
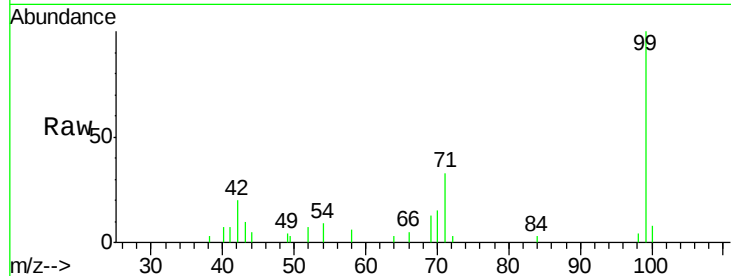
ClientSampleId :

SP-C-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 23661 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 19.6  | 14.8  | 22.2  |
| 71        | 33.5  | 26.6  | 39.8  |

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#21

Naphthalene-d8

Concen: 20.00 ng/mL

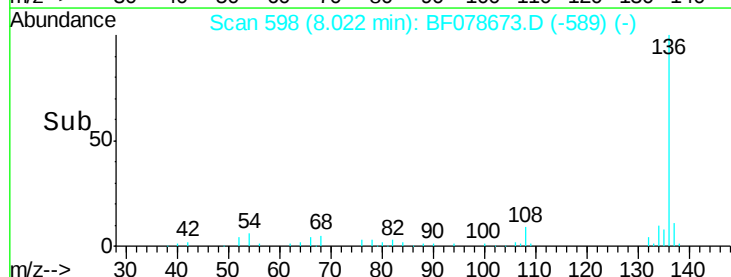
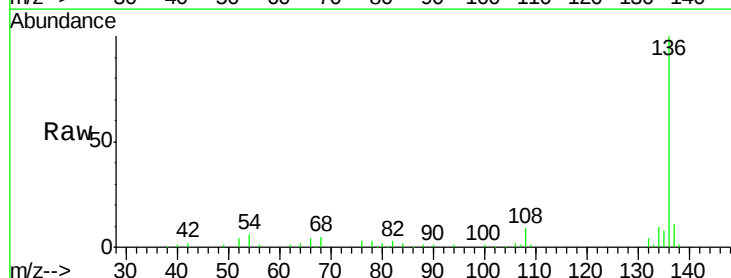
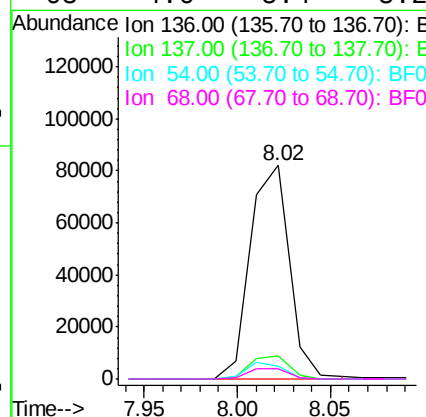
RT: 8.02 min Scan# 598

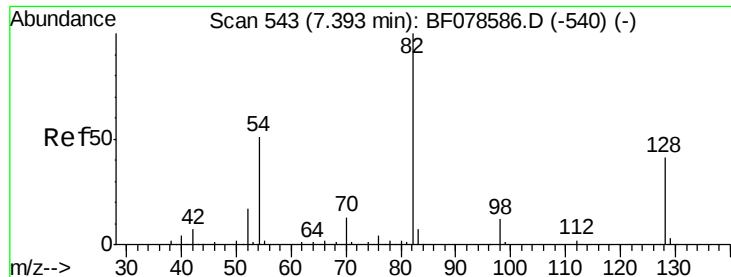
Delta R.T. 0.00 min

Lab File: BF078673.D

Acq: 21 Apr 2015 7:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 119613 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 9.0   | 13.4   |
| 54        | 6.0   | 7.0   | 10.6#  |
| 68        | 4.6   | 5.4   | 8.2#   |





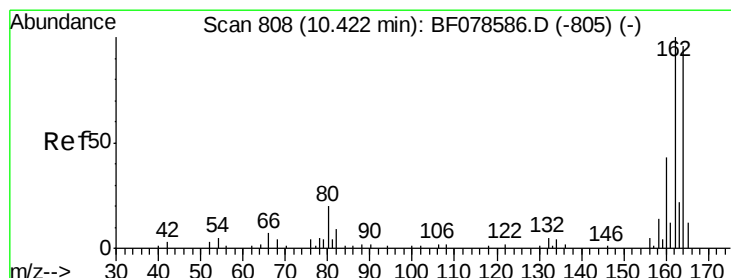
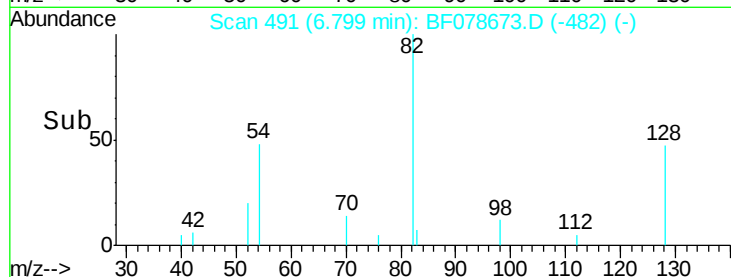
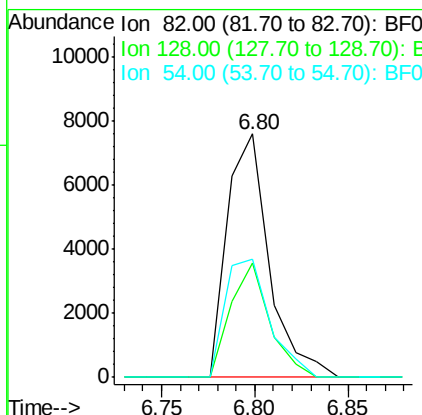
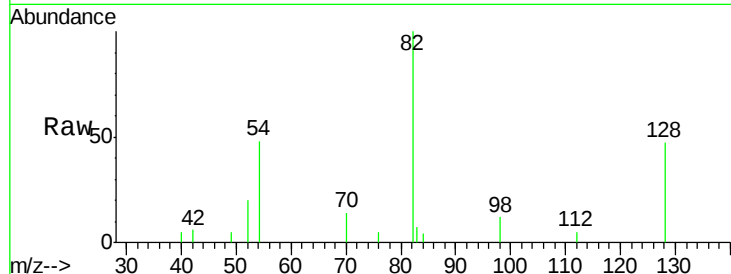
#23  
 Nitrobenzene-d5  
 Concen: 6.06 ng  
 RT: 6.80 min Scan# 491  
 Delta R.T. 0.00 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampleID :  
 SP-C-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.8  | 31.8  | 47.8  |
| 54      | 48.5  | 41.5  | 62.3  |

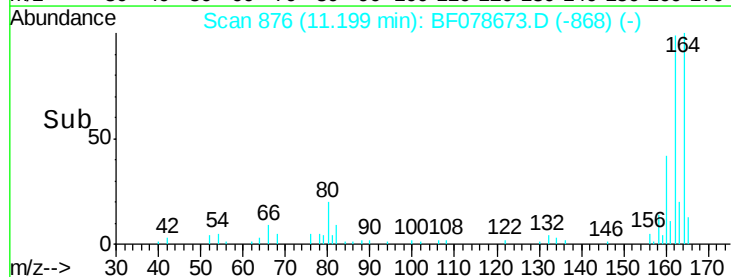
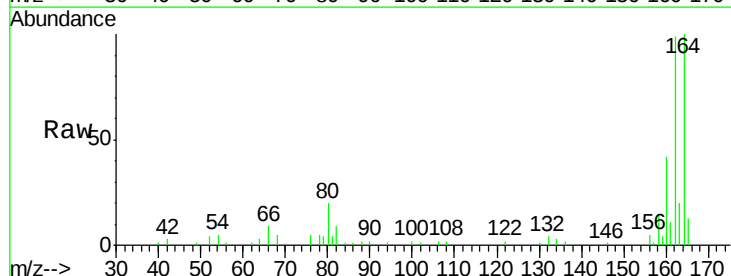
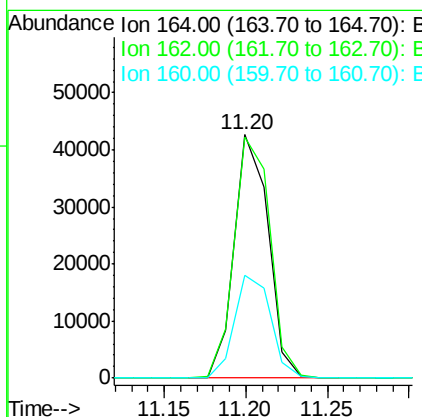
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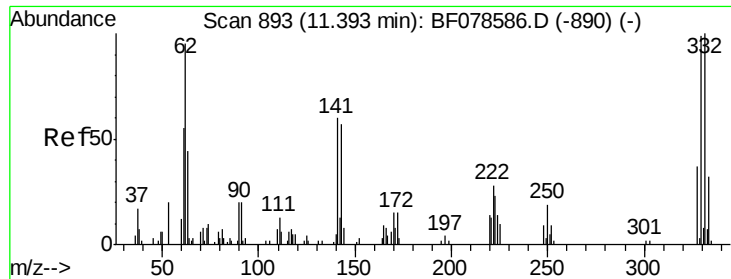
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.20 min Scan# 876  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.0  | 82.2  | 123.2 |
| 160     | 42.5  | 34.7  | 52.1  |





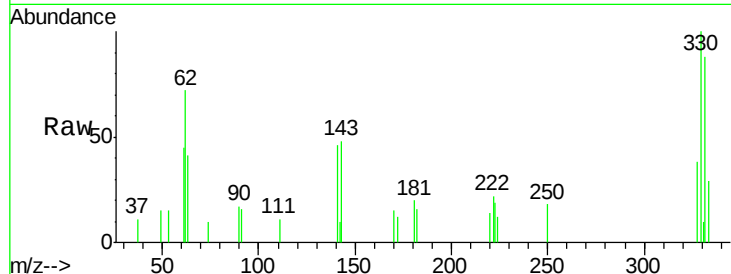
#41  
 2,4,6-Tribromophenol  
 Concen: 9.69 ng  
 RT: 12.67 min Scan# 1005  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-C-1

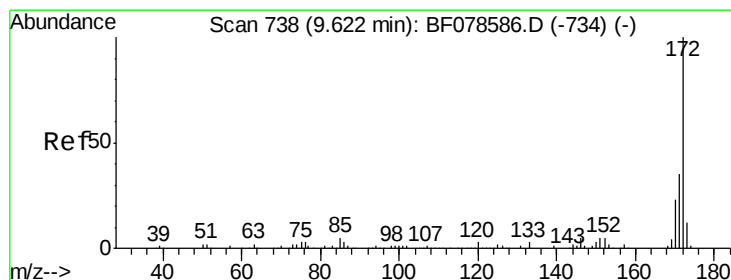
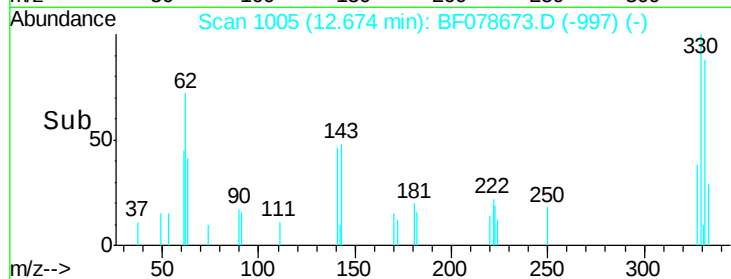
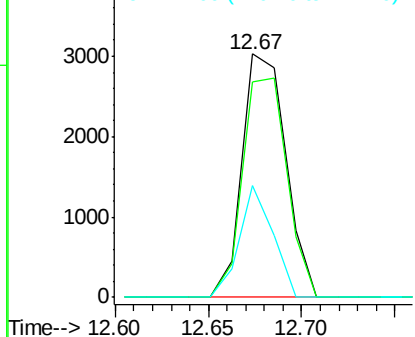
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 91.5  | 78.6  | 117.8 |
| 141     | 35.1  | 31.2  | 46.8  |

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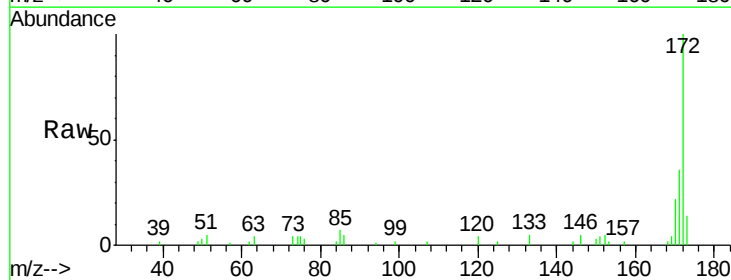


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

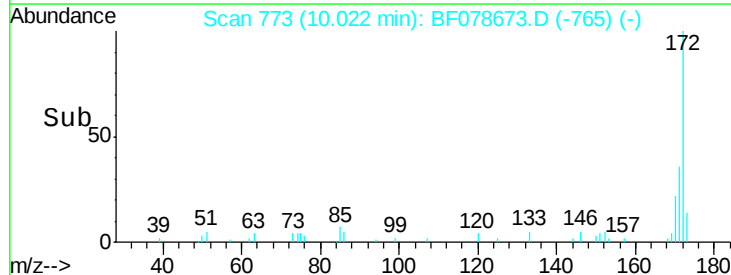
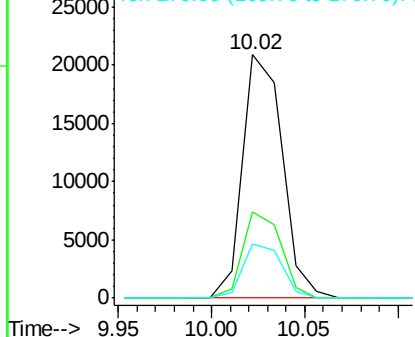


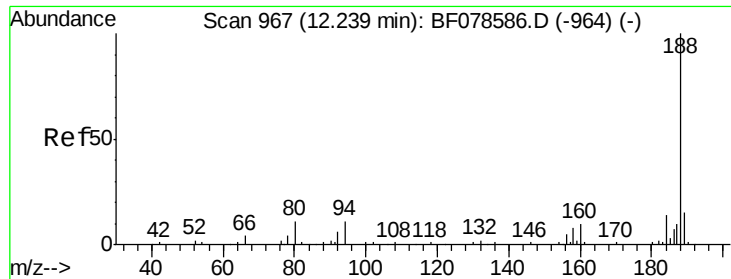
#44  
 2-Fluorobiphenyl  
 Concen: 7.21 ng  
 RT: 10.02 min Scan# 773  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 28.6  | 42.8  |
| 170     | 22.4  | 18.5  | 27.7  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





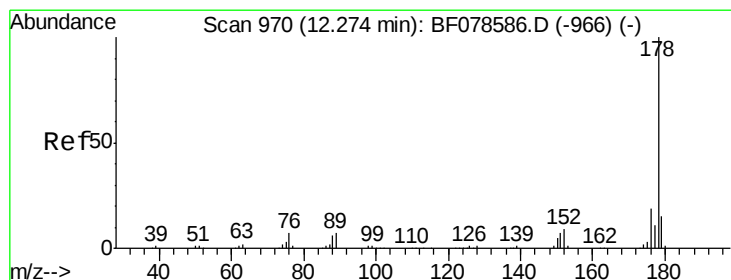
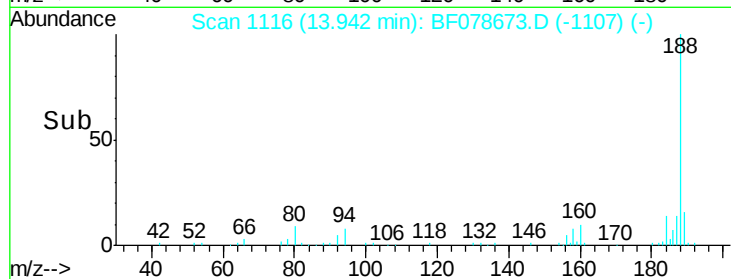
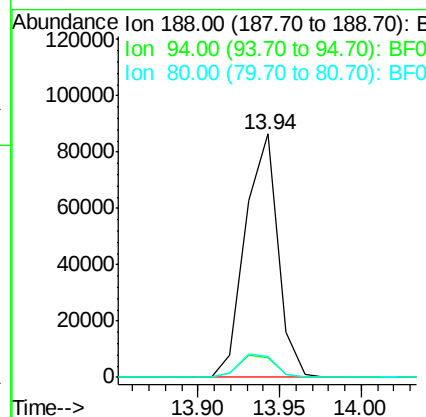
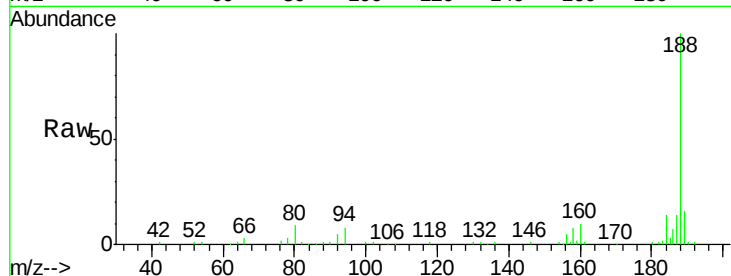
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 13.94 min Scan# 1116  
 Delta R.T. 0.00 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-C-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 7.9   | 9.0        | 13.4# |
| 80      | 8.8   | 9.5        | 14.3# |

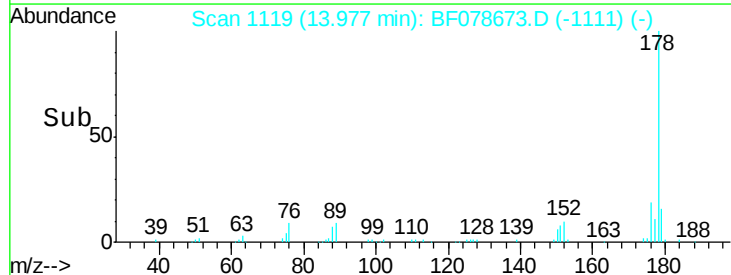
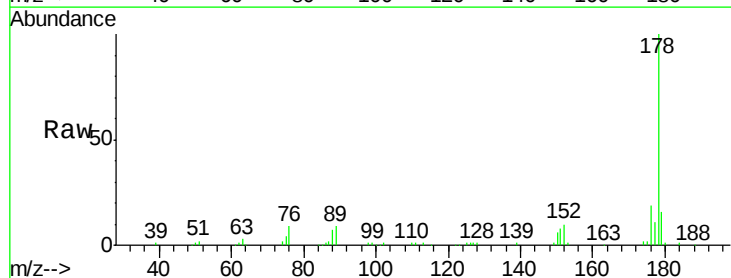
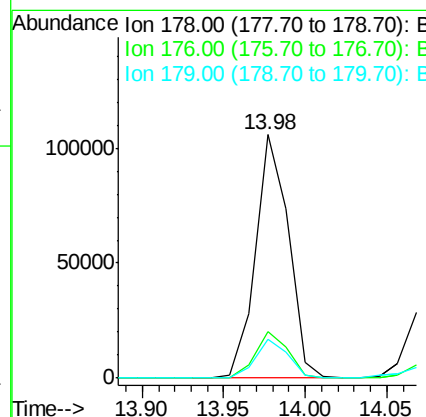
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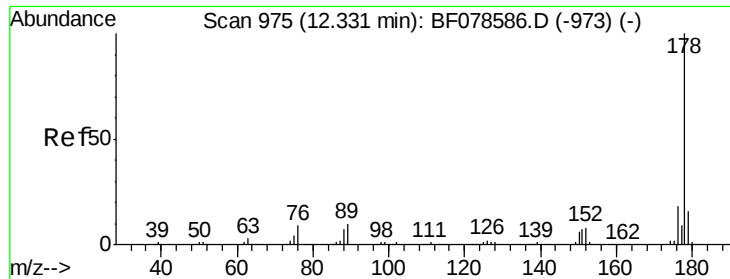
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#70  
 Phenanthrene  
 Concen: 21.46 ng  
 RT: 13.98 min Scan# 1119  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.0  | 15.4       | 23.0  |
| 179     | 15.9  | 12.2       | 18.2  |





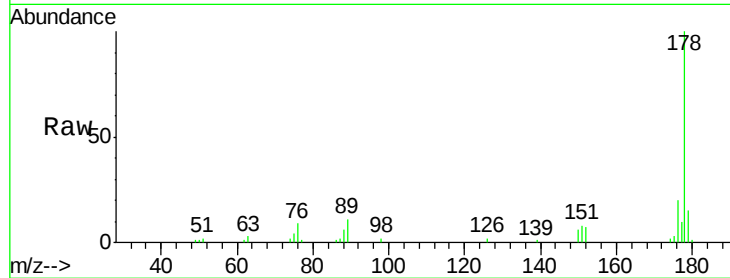
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 Anthracene  
 Concen: 5.90 ng  
 RT: 14.07 min Scan# 1127  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampled :  
 SP-C-1

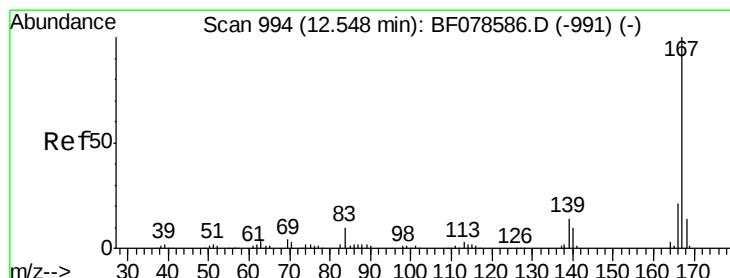
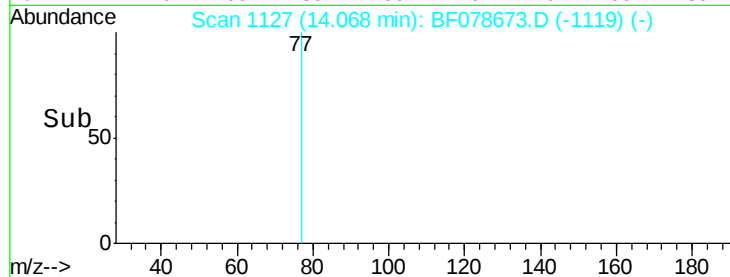
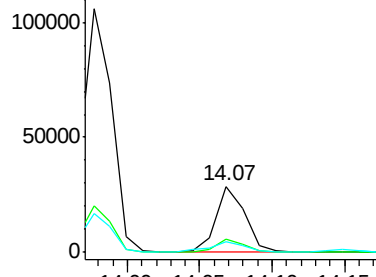
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.9  | 14.8  | 22.2  |
| 179     | 15.5  | 12.4  | 18.6  |

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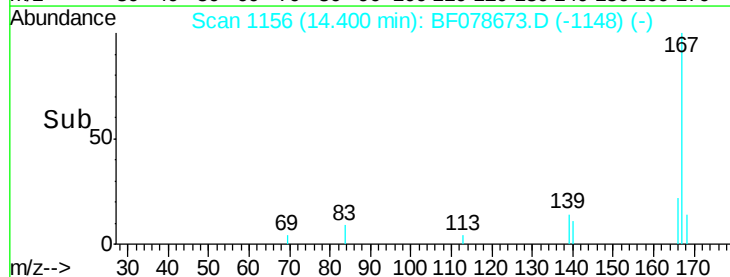
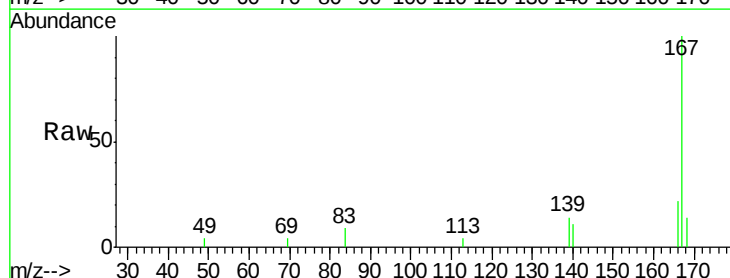
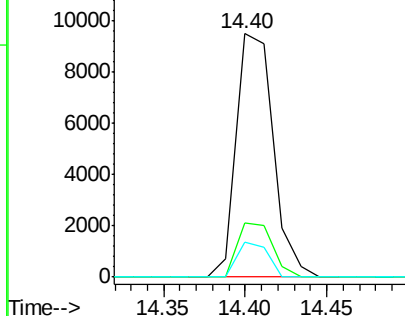
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

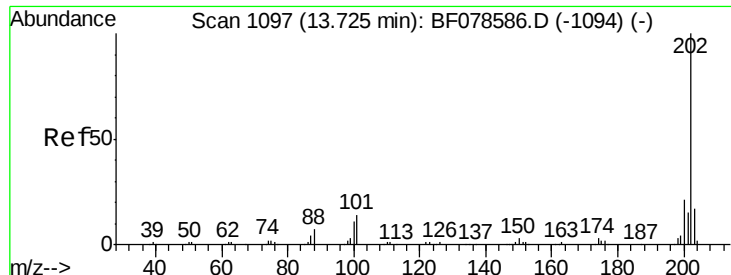


#72  
 Carbazole  
 Concen: 2.31 ng  
 RT: 14.40 min Scan# 1156  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.1  | 16.8  | 25.2  |
| 139     | 14.3  | 10.0  | 15.0  |

Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E





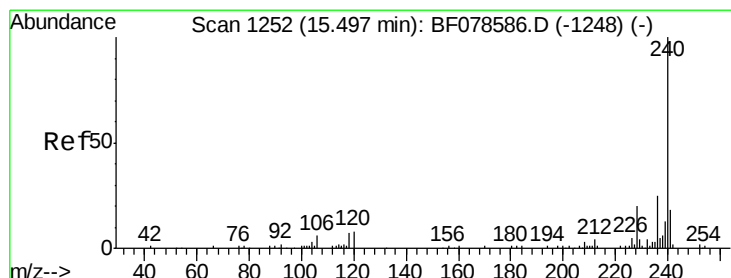
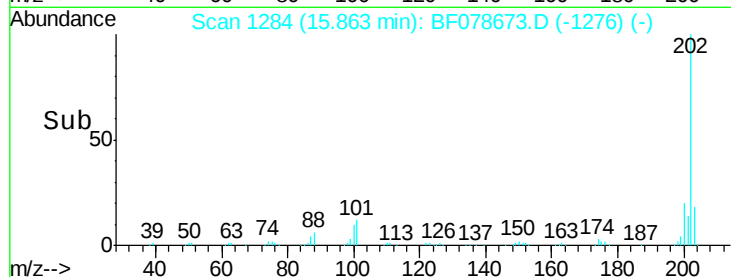
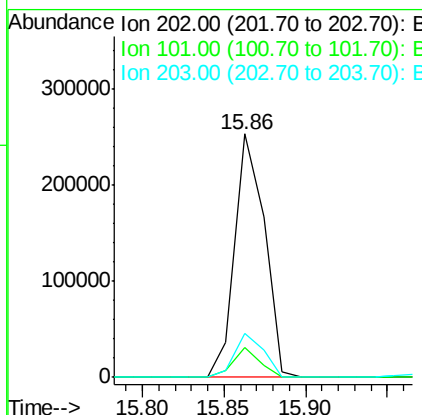
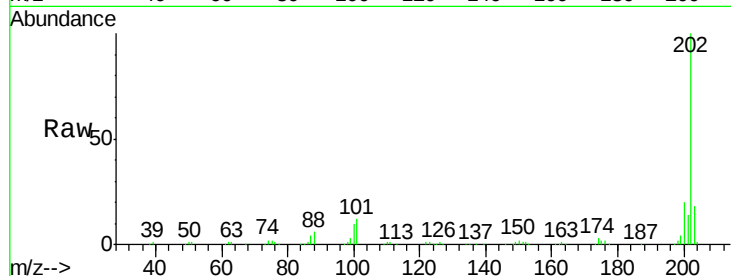
#74  
 Fluoranthene  
 Concen: 43.62 ng  
 RT: 15.86 min Scan# 1284  
 Delta R.T. -0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-C-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.5  | 0.0        | 35.2  |
| 203     | 17.9  | 0.0        | 38.5  |

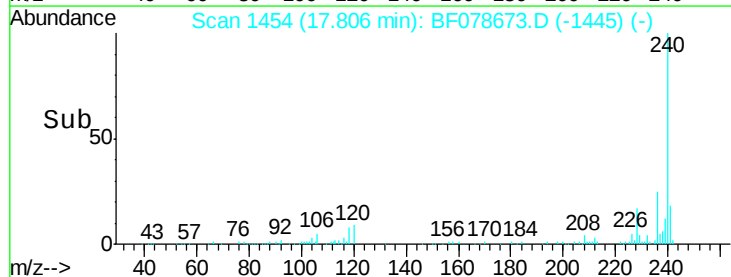
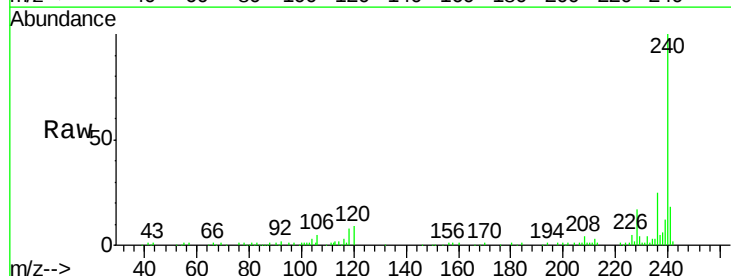
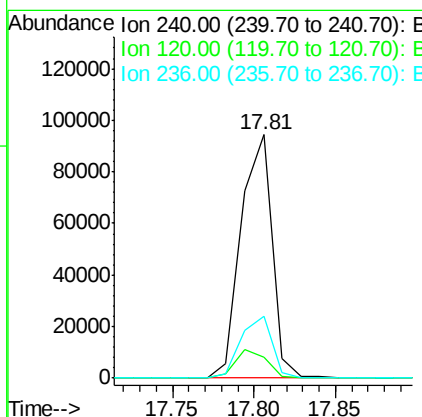
Manual Integrations  
 APPROVED

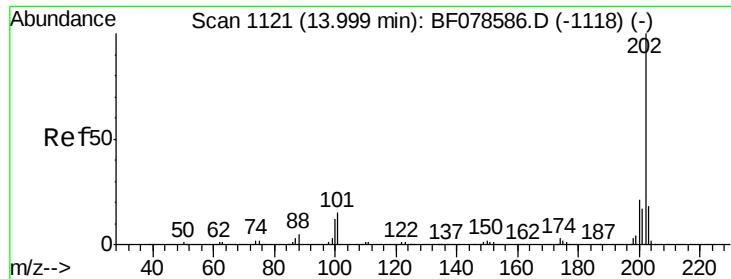
apatel  
 4/21/2015 5:04:34 PM



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 17.81 min Scan# 1454  
 Delta R.T. 0.00 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 8.5   | 7.1        | 10.7  |
| 236     | 25.2  | 21.4       | 32.2  |





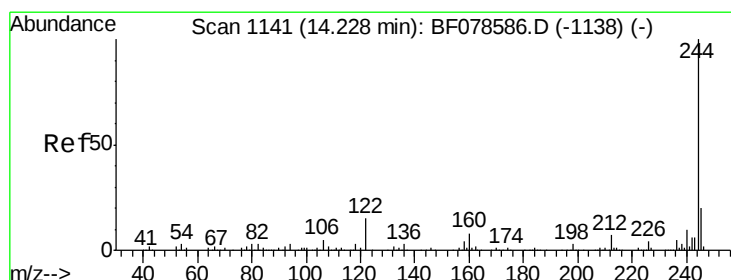
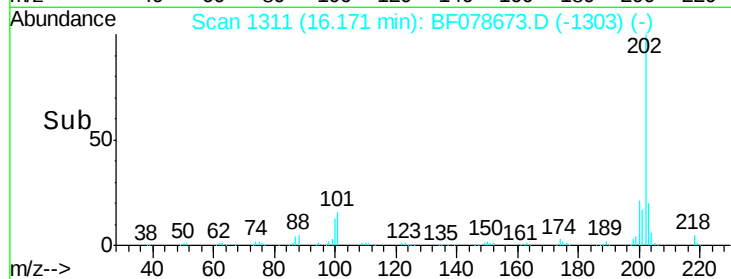
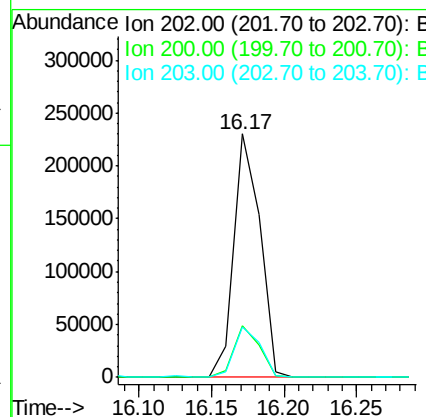
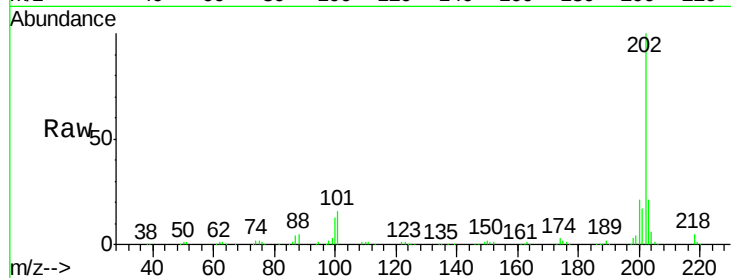
#77  
Pvrene  
Concen: 37.20 ng  
RT: 16.17 min Scan# 1311  
Delta R.T. -0.01 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

Instrument :  
BNA\_F  
ClientSampleId :  
SP-C-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.0  | 16.3       | 24.5  |
| 203     | 20.7  | 13.8       | 20.6  |

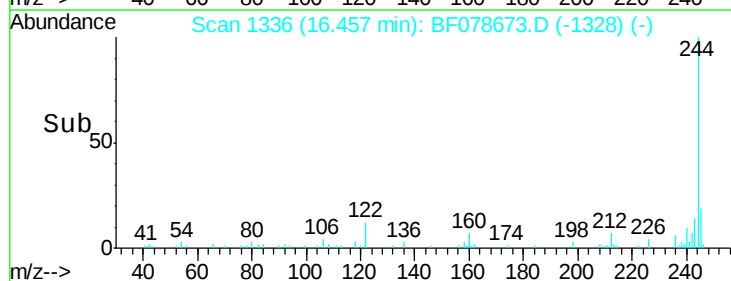
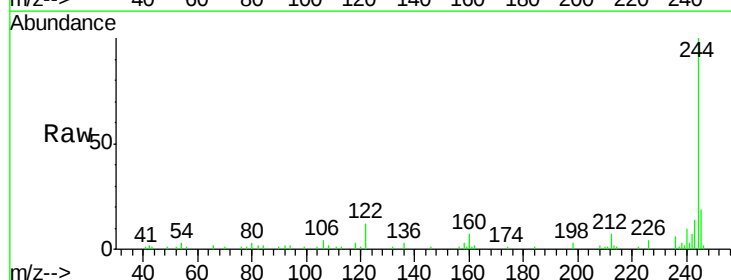
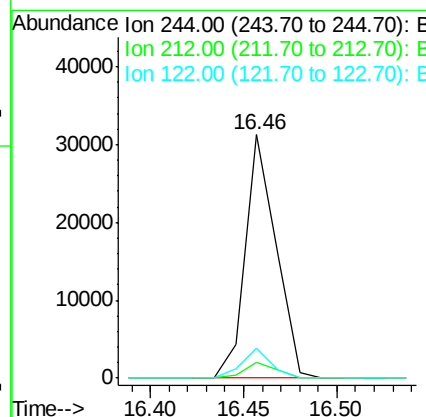
Manual Integrations  
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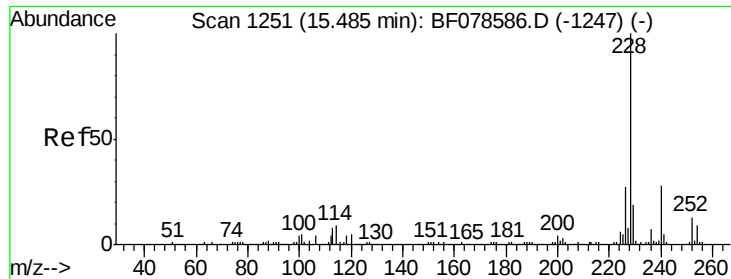
apatel  
4/21/2015 5:04:34 PM



#78  
Terphenyl-d14  
Concen: 6.48 ng  
RT: 16.46 min Scan# 1336  
Delta R.T. -0.01 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.7   | 5.0        | 7.4   |
| 122     | 12.1  | 7.1        | 10.7  |





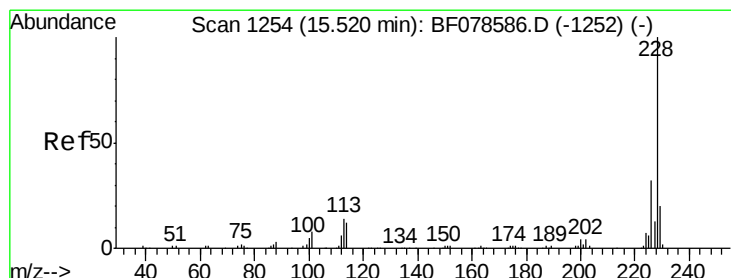
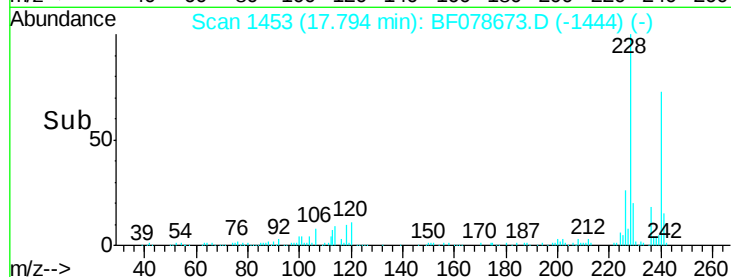
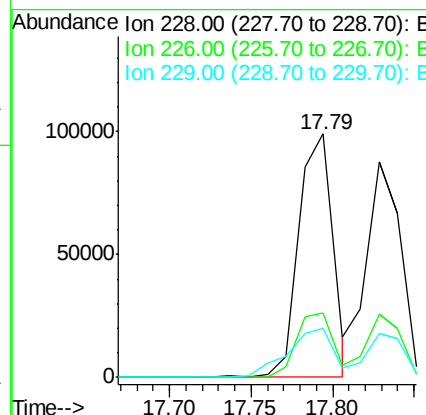
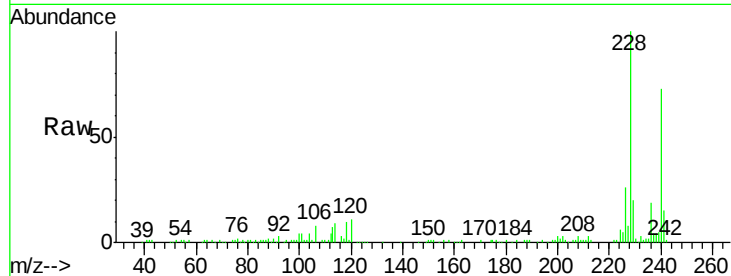
#80  
Benzo(a)anthracene  
Concen: 19.63 ng  
RT: 17.79 min Scan# 1453  
Delta R.T. 0.00 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

Instrument :  
BNA\_F  
ClientSampled :  
SP-C-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.4  | 21.3  | 31.9  |
| 229     | 20.1  | 15.4  | 23.2  |

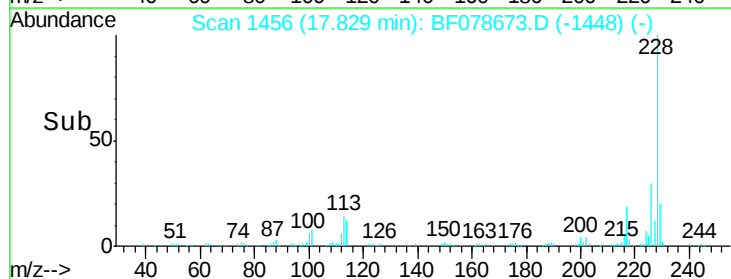
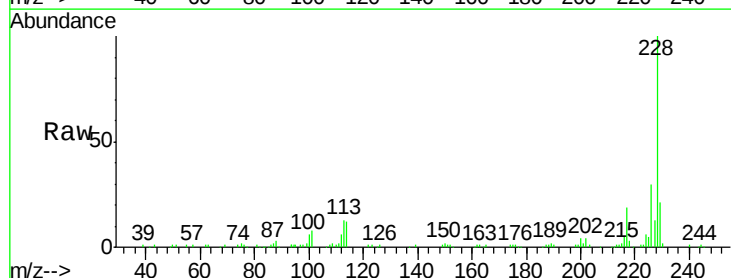
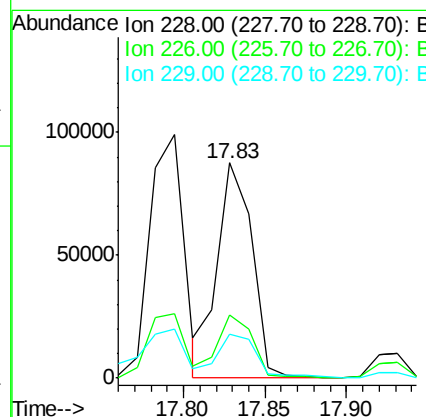
Manual Integrations  
APPROVED

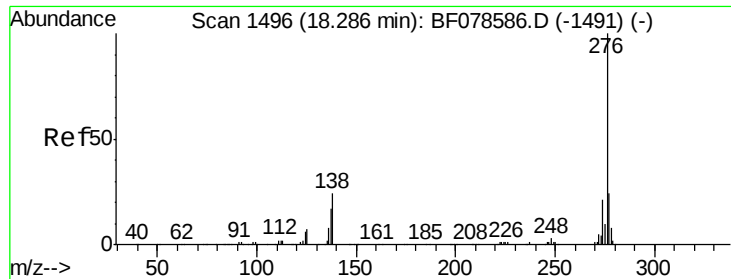
apatel  
4/21/2015 5:04:34 PM



#82  
Chrysene  
Concen: 18.37 ng  
RT: 17.83 min Scan# 1456  
Delta R.T. -0.01 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.2  | 36.4  |
| 229     | 20.5  | 15.8  | 23.8  |





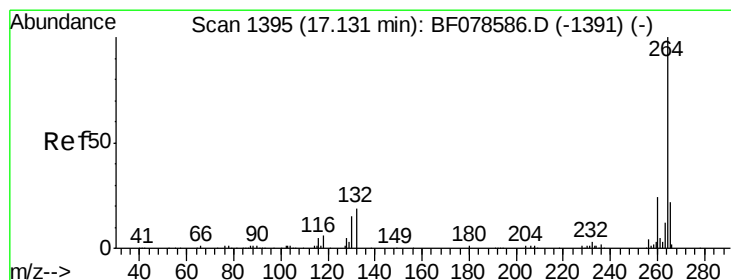
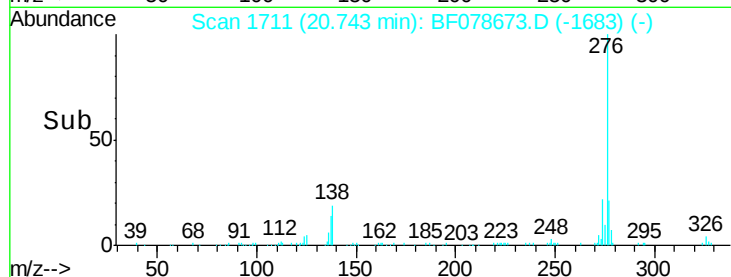
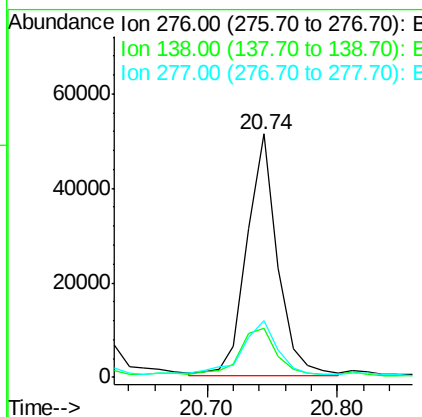
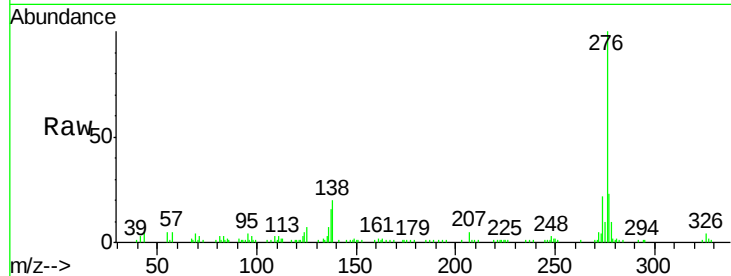
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.72 ng  
 RT: 20.74 min Scan# 1711  
 Delta R.T. 0.02 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-C-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.0  | 16.9  | 25.3  |
| 277     | 26.6  | 15.8  | 23.6  |

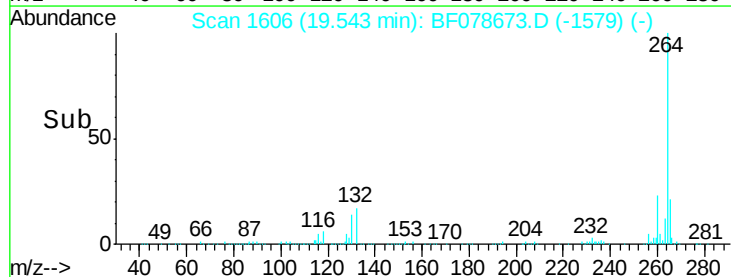
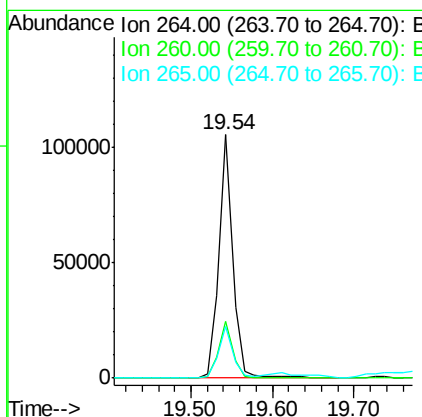
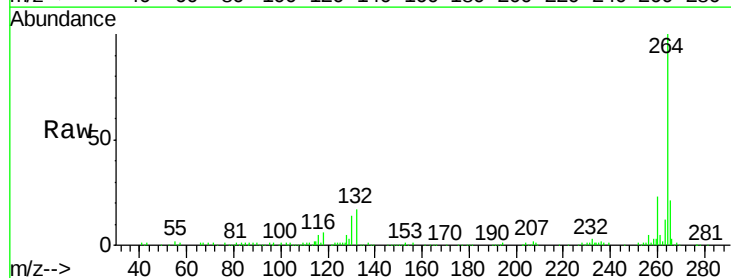
Manual Integrations  
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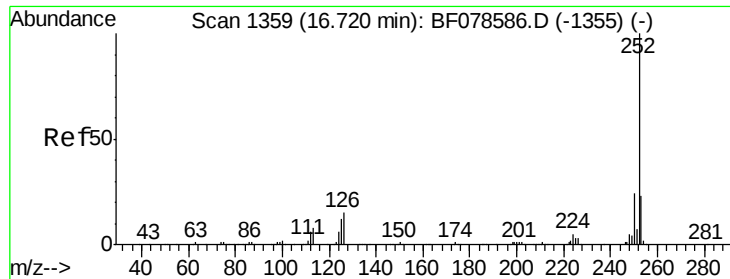
apatel  
 4/21/2015 5:04:34 PM



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 19.54 min Scan# 1606  
 Delta R.T. 0.01 min  
 Lab File: BF078673.D  
 Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 18.6  | 27.8  |
| 265     | 21.4  | 17.0  | 25.6  |





#87

Benzo(b)fluoranthene

Concen: 21.93 ng m

RT: 19.11 min Scan# 1568

Delta R.T. 0.01 min

Lab File: BF078673.D

Acq: 21 Apr 2015 7:58

Instrument :

BNA\_F

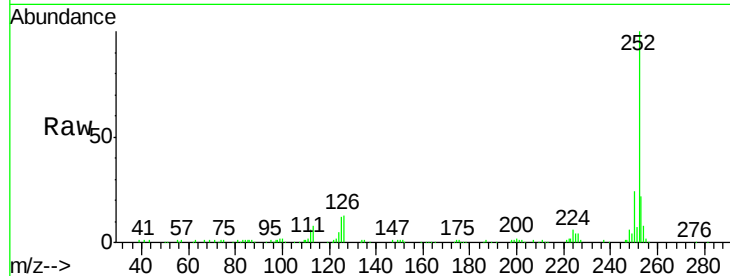
ClientSampled :

SP-C-1

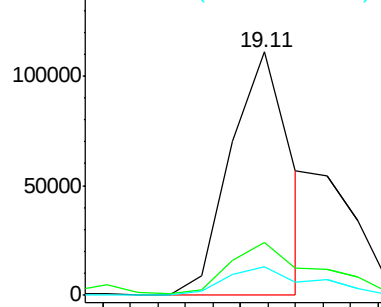
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 169496 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.9  | 17.2  | 25.8   |
| 125       | 11.8  | 7.0   | 10.4#  |

Manual Integrations  
APPROVED

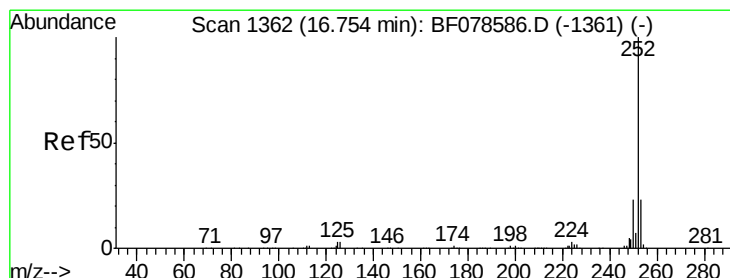
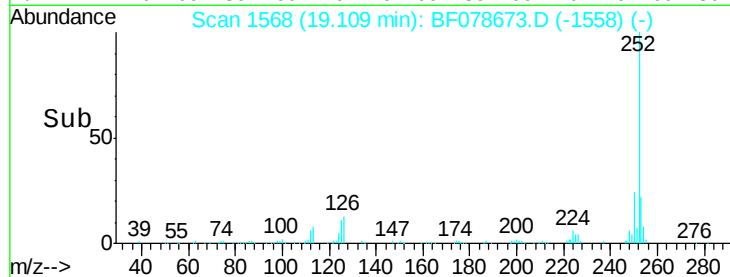
apatel  
4/21/2015 5:04:34 PM



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



Time-->



#88

Benzo(k)fluoranthene

Concen: 9.44 ng m

RT: 19.12 min Scan# 1569

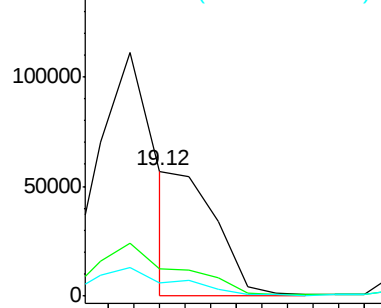
Delta R.T. -0.01 min

Lab File: BF078673.D

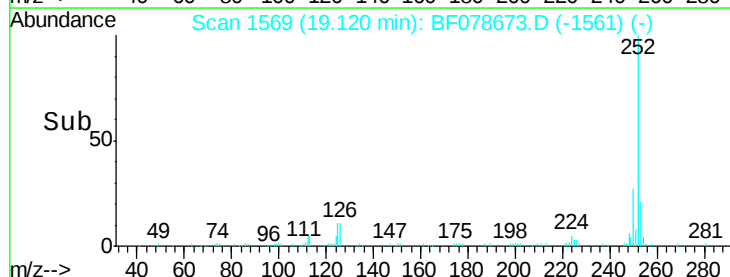
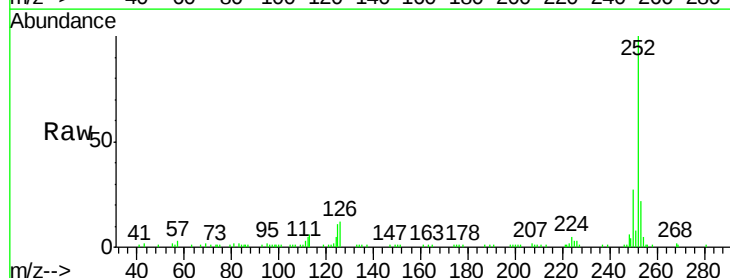
Acq: 21 Apr 2015 7:58

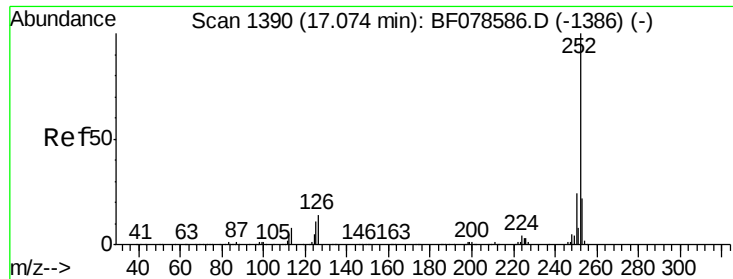
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 64812 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.2  | 17.5  | 26.3  |
| 125       | 11.1  | 11.6  | 17.4# |

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



Time-->





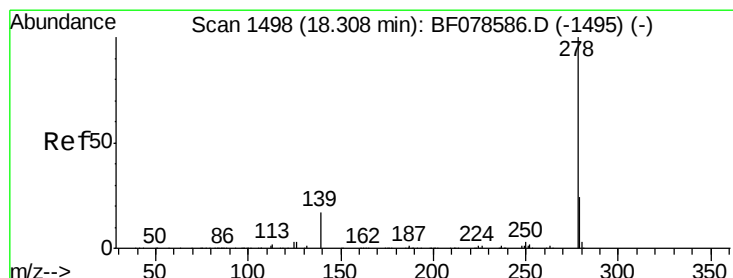
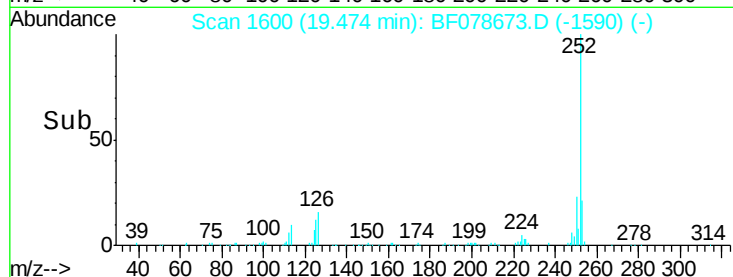
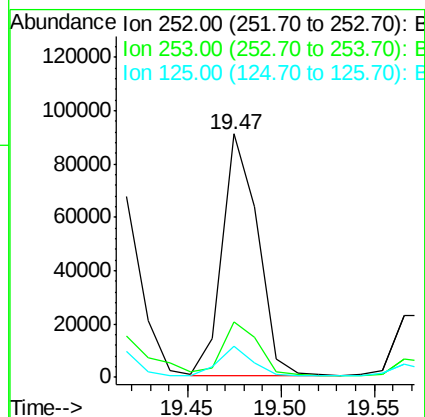
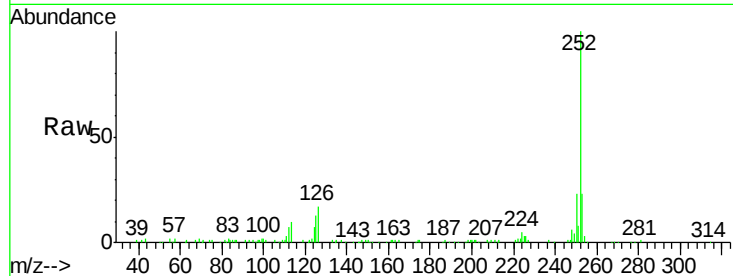
#89  
Benzo(a)pyrene  
Concen: 17.76 ng  
RT: 19.47 min Scan# 1600  
Delta R.T. 0.01 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

Instrument :  
BNA\_F  
ClientSampleId :  
SP-C-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.9  | 16.8       | 25.2  |
| 125     | 13.0  | 7.4        | 11.0  |

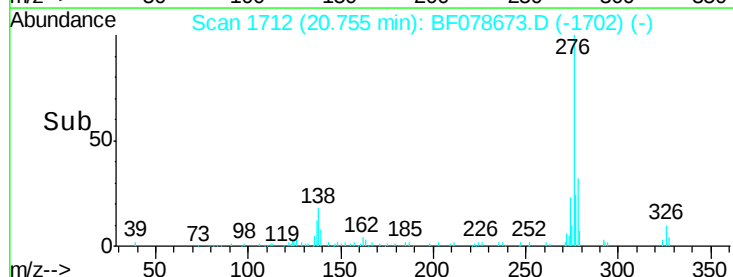
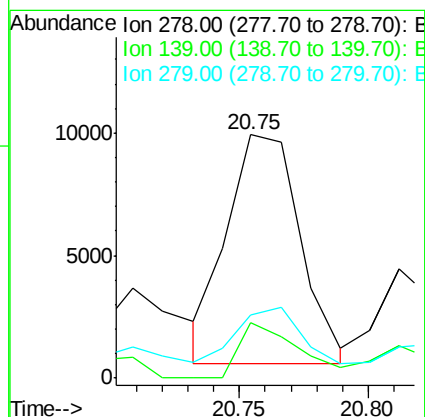
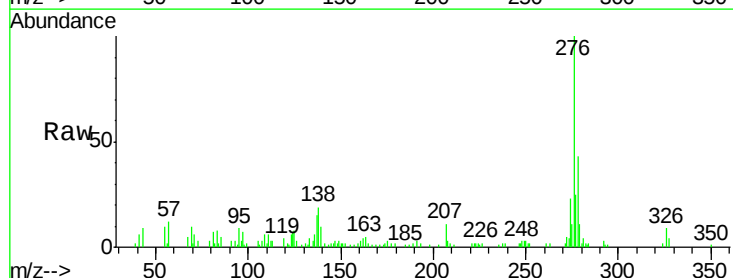
Manual Integrations  
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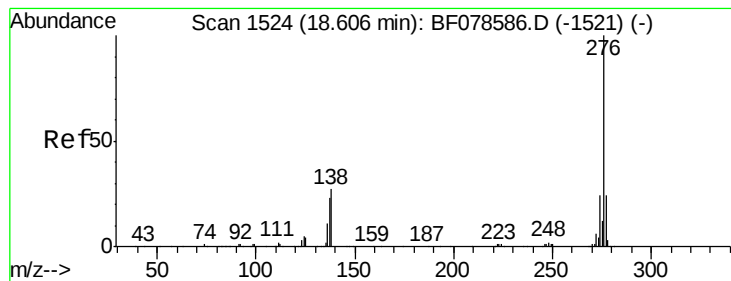
apatel  
4/21/2015 5:04:34 PM



#90  
Dibenzo(a,h)anthracene  
Concen: 2.72 ng m  
RT: 20.75 min Scan# 1712  
Delta R.T. 0.01 min  
Lab File: BF078673.D  
Acq: 21 Apr 2015 7:58

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 23.0  | 13.6       | 20.4  |
| 279     | 26.1  | 19.0       | 28.6  |





#91

Benzo(a,h,i)perylene

Concen: 11.19 ng

RT: 21.06 min Scan# 1739

Delta R.T. 0.02 min

Lab File: BF078673.D

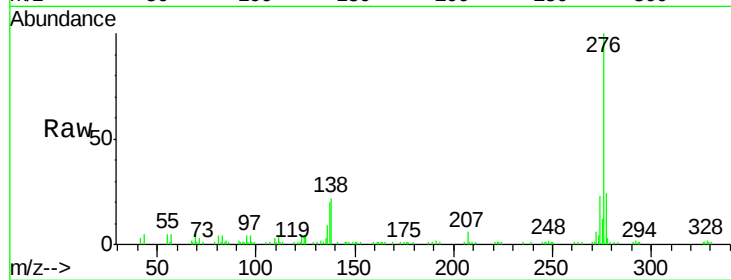
Acq: 21 Apr 2015 7:58

Instrument :

BNA\_F

ClientSampleId :

SP-C-1



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 75746 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.0  | 19.0  | 28.4  |
| 138       | 22.2  | 19.9  | 29.9  |

Manual Integrations  
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4/21/2015 5:04:34 PM

