

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022018\  
 Data File : BF103116.D  
 Acq On : 20 Feb 2018 11:01  
 Operator : SJ/JU  
 Sample : J1600-04DL 20X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 A2 SB68 BOT\_10DL

Manual Integrations  
 APPROVED

Sohil  
 2/21/2018 10:10:55 AM

Quant Time: Feb 20 13:55:02 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 16 14:34:49 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 149430   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 631021   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 295974   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.40 | 188  | 526299   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.05 | 240  | 314052   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.54 | 264  | 294740   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

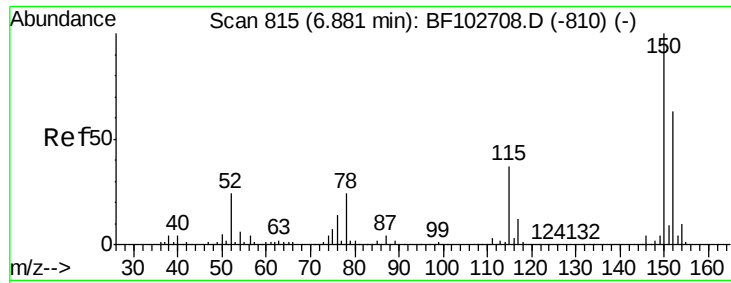
|                          |       |     |       |      |    |       |
|--------------------------|-------|-----|-------|------|----|-------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 55521 | 5.64 | ng | 0.00  |
| 7) Phenol-d6             | 6.50  | 99  | 73867 | 6.23 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 41507 | 4.56 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 14436 | 6.06 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 54830 | 3.07 | ng | -0.01 |
| 78) Terphenyl-d14        | 12.98 | 244 | 49711 | 3.75 | ng | -0.01 |

## Target Compounds

|                            |       |     |         |        |    | Qvalue |
|----------------------------|-------|-----|---------|--------|----|--------|
| 31) Naphthalene            | 8.18  | 128 | 1520229 | 49.310 | ng | 99     |
| 37) 2-Methylnaphthalene    | 8.87  | 142 | 357100  | 17.691 | ng | 99     |
| 45) 1,1'-Biphenyl          | 9.33  | 154 | 143971  | 5.775  | ng | 97     |
| 48) Acenaphthylene         | 9.77  | 152 | 235990  | 7.742  | ng | 99     |
| 51) Acenaphthene           | 9.95  | 154 | 607487  | 33.325 | ng | 99     |
| 54) Dibenzofuran           | 10.12 | 168 | 623337  | 24.264 | ng | 97     |
| 57) Fluorene               | 10.46 | 166 | 738026  | 39.485 | ng | 99     |
| 70) Phenanthrene           | 11.44 | 178 | 2031358 | 69.303 | ng | 99     |
| 71) Anthracene             | 11.48 | 178 | 516989  | 17.341 | ng | 99     |
| 72) Carbazole              | 11.63 | 167 | 342768  | 11.736 | ng | 99     |
| 74) Fluoranthene           | 12.63 | 202 | 1520186 | 51.548 | ng | 99     |
| 77) Pylene                 | 12.85 | 202 | 1203963 | 48.889 | ng | 100    |
| 80) Benzo(a)anthracene     | 14.04 | 228 | 586148m | 29.677 | ng |        |
| 82) Chrysene               | 14.07 | 228 | 374493  | 18.809 | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene | 17.04 | 276 | 202698  | 12.275 | ng | 96     |
| 87) Benzo(b)fluoranthene   | 15.10 | 252 | 471742m | 24.687 | ng |        |
| 88) Benzo(k)fluoranthene   | 15.13 | 252 | 178858m | 9.796  | ng |        |
| 89) Benzo(a)pyrene         | 15.48 | 252 | 369413  | 21.477 | ng | 98     |
| 90) Dibenzo(a,h)anthracene | 17.04 | 278 | 55350m  | 3.965  | ng |        |
| 91) Benzo(a,h,i)perylene   | 17.50 | 276 | 182167  | 13.331 | ng | 97     |

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





#1

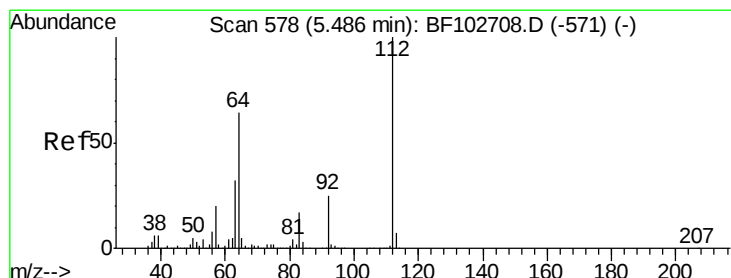
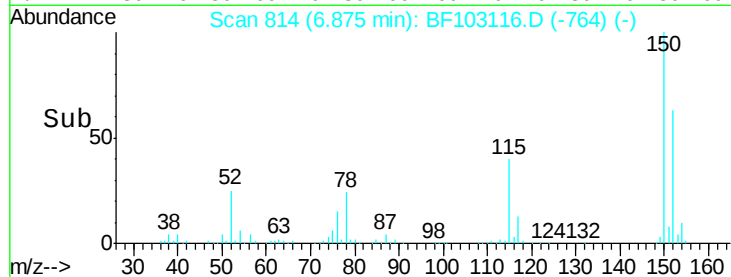
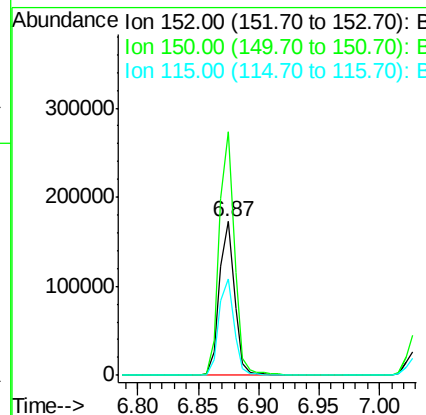
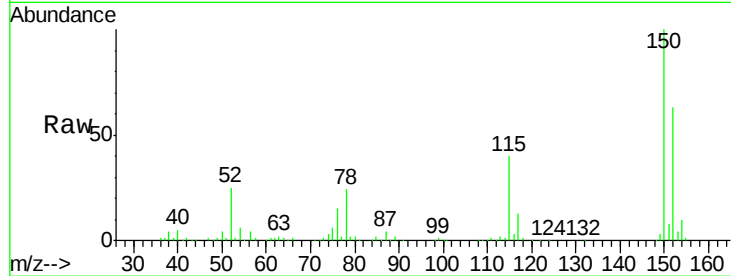
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.4 | 124.6 | 186.8 |
| 115     | 63.1  | 50.1  | 75.1  |

Manual Integrations  
APPROVED

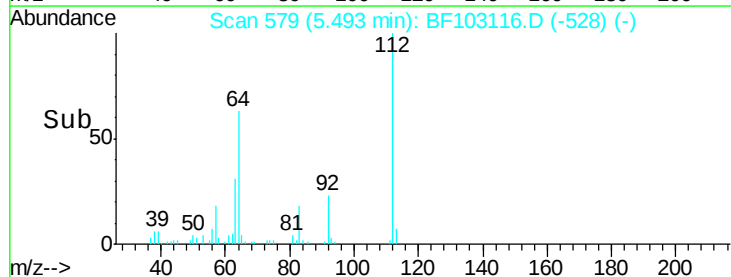
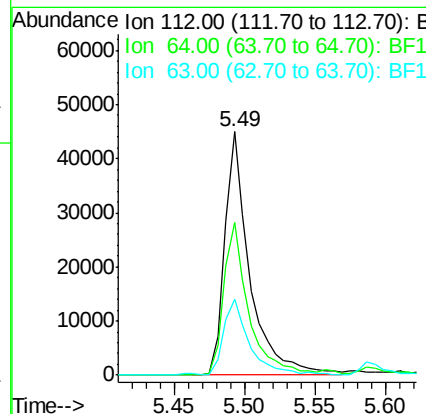
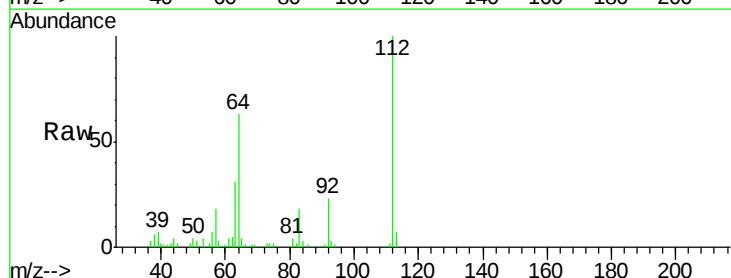
Sohil  
2/21/2018 10:10:55 AM

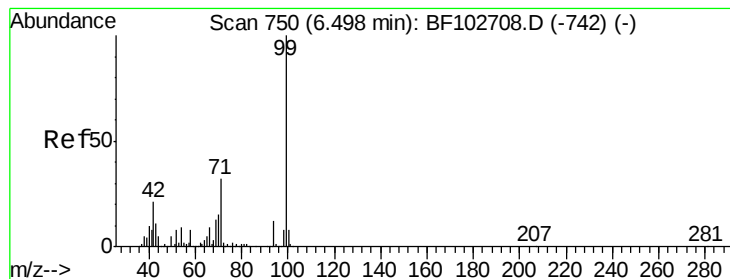


#5

2-Fluorophenol  
Concen: 5.643 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.00 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.7  | 47.9  | 71.9  |
| 63      | 31.2  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 6.235 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

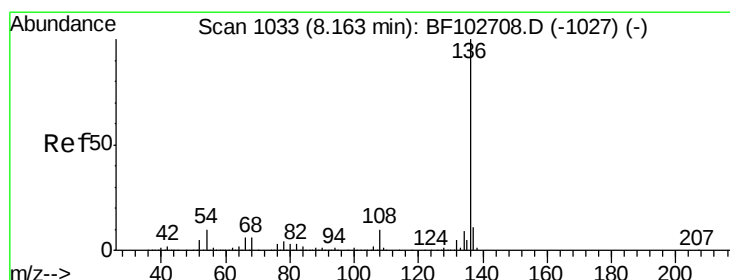
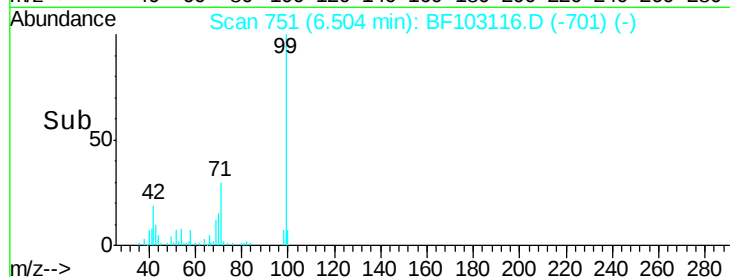
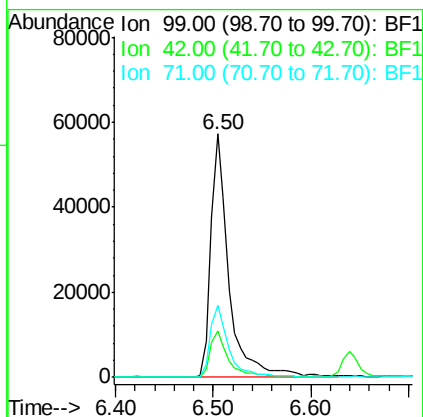
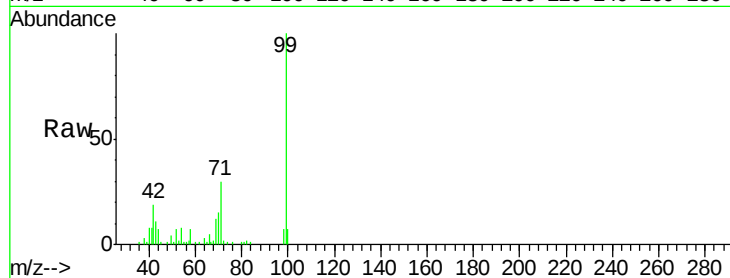
ClientSampleId :

A2\_SB68\_BOT\_10DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 73867 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 19.1  | 14.5  | 21.7  |
| 71       | 29.5  | 25.4  | 38.0  |

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2/21/2018 10:10:55 AM



#21

Naphthalene-d8

Concen: 20.000 ng

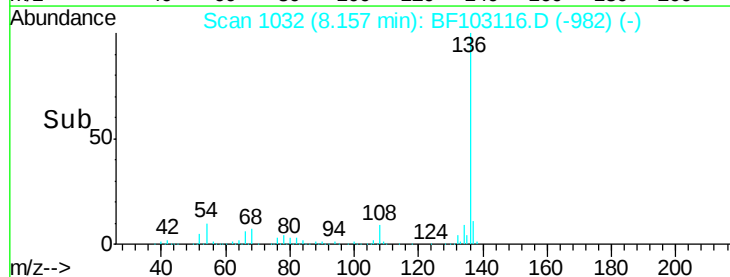
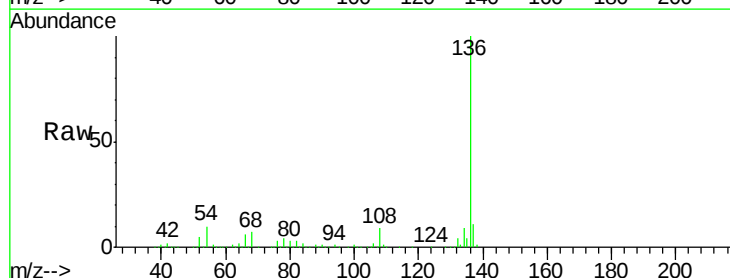
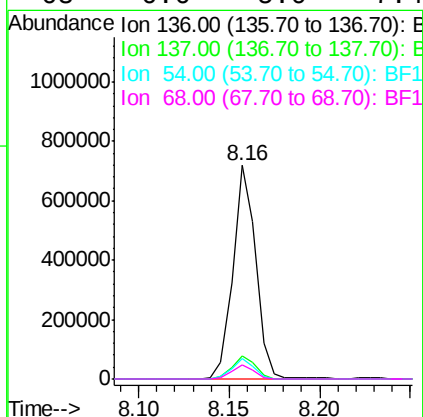
RT: 8.16 min Scan# 1032

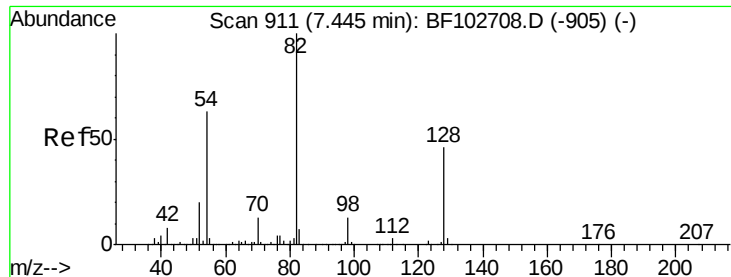
Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 631021 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 9.8   | 6.6   | 9.8    |
| 68       | 6.6   | 5.0   | 7.4    |





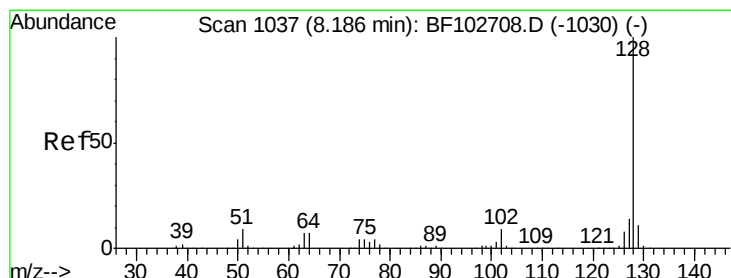
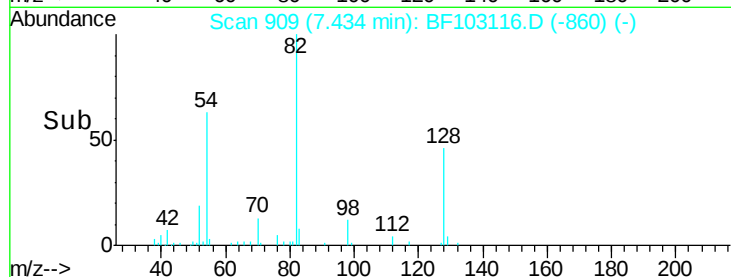
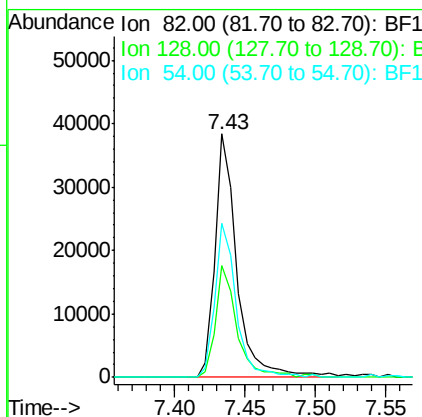
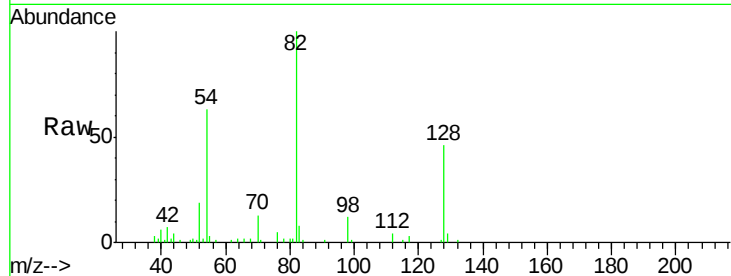
#23  
Nitrobenzene-d5  
Concen: 4.563 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.1  | 36.1  | 54.1  |
| 54      | 63.3  | 41.4  | 62.2  |

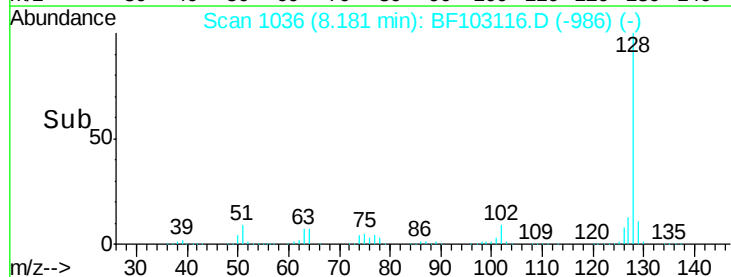
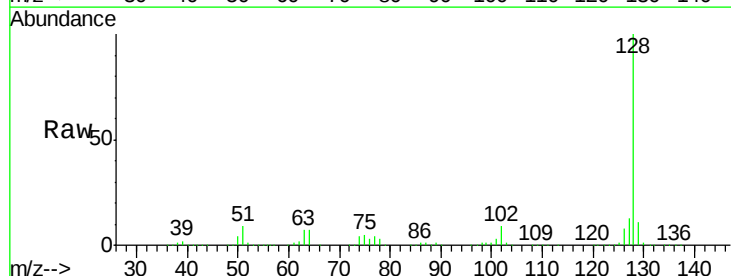
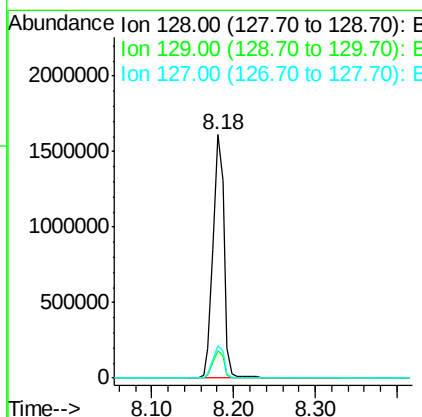
Manual Integrations  
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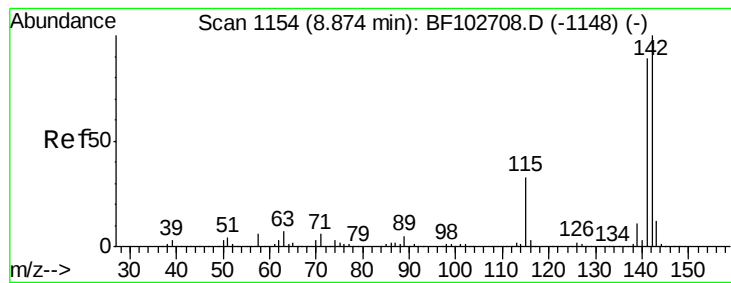
Sohil  
2/21/2018 10:10:55 AM



#31  
Naphthalene  
Concen: 49.310 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 8.8   | 13.2  |
| 127     | 13.4  | 10.9  | 16.3  |





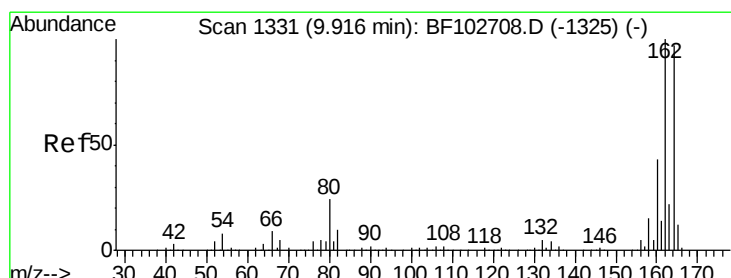
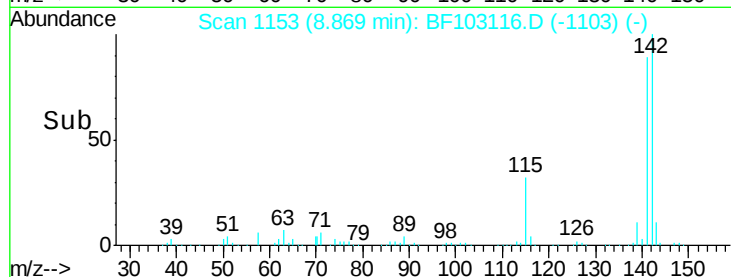
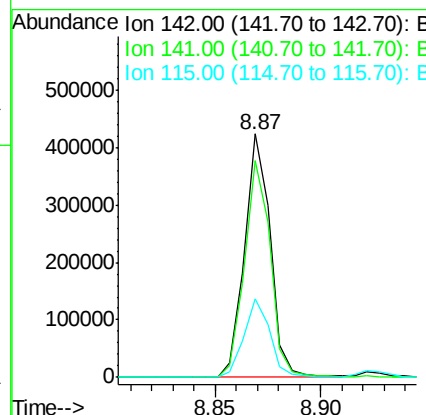
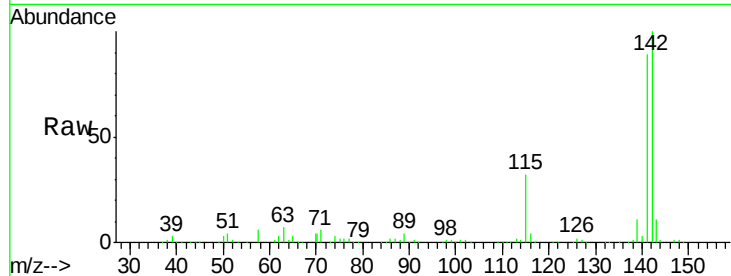
#37  
2-Methylnaphthalene  
Concen: 17.691 ng  
RT: 8.87 min Scan# 1153  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.1  | 70.8  | 106.2 |
| 115     | 32.1  | 26.1  | 39.1  |

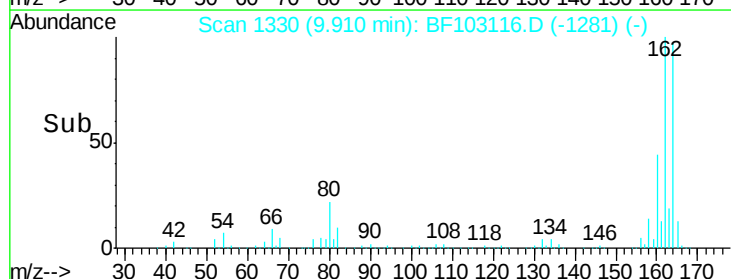
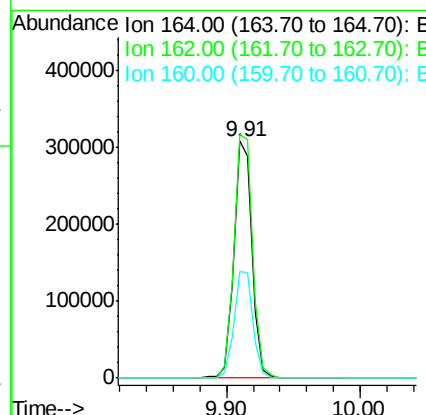
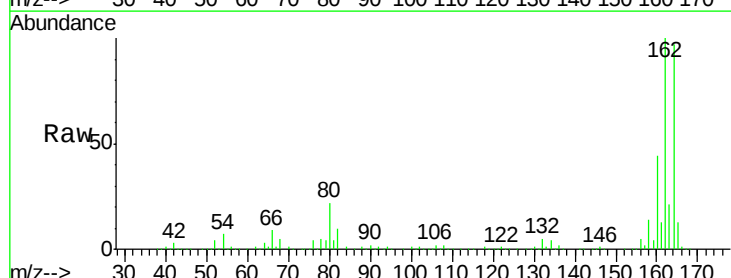
Manual Integrations  
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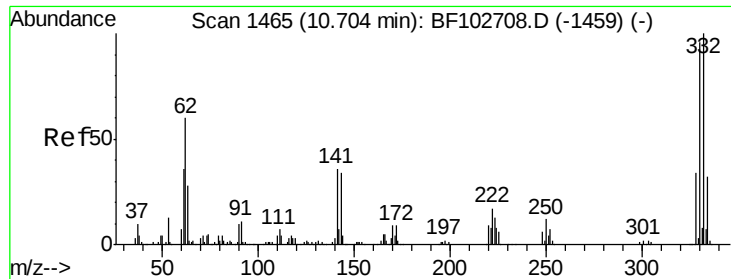
Sohil  
2/21/2018 10:10:55 AM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.7 | 86.1  | 129.1 |
| 160     | 45.3  | 38.3  | 57.5  |





#41

2,4,6-Tribromophenol

Concen: 6.060 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

ClientSampleId :

A2\_SB68\_BOT\_10DL

Tot Ion:330 Resp: 14436

Ion Ratio Lower Upper

330 100

332 101.3 77.0 115.6

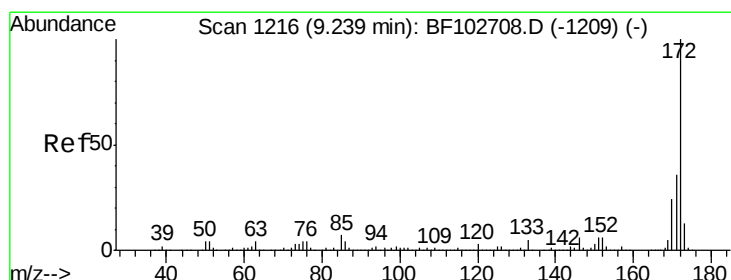
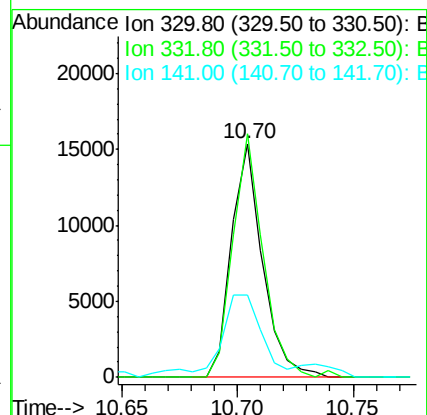
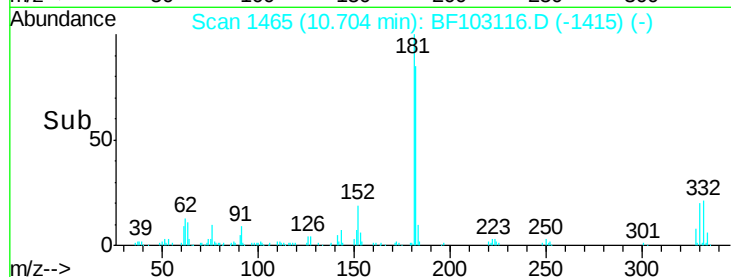
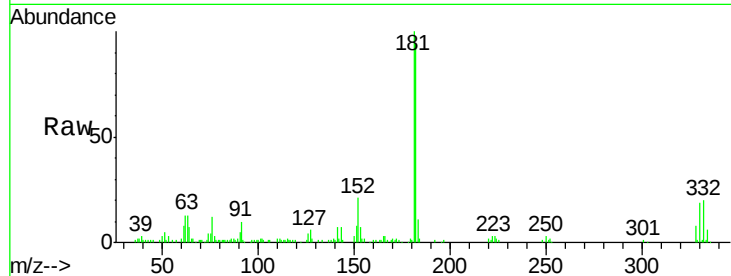
141 47.8 29.9 44.9#

Manual Integrations

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Sohil

2/21/2018 10:10:55 AM



#44

2-Fluorobiphenyl

Concen: 3.074 ng

RT: 9.23 min Scan# 1214

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

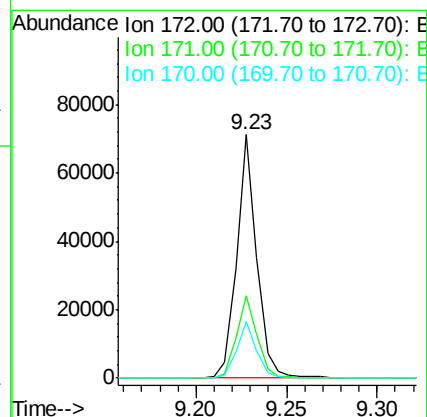
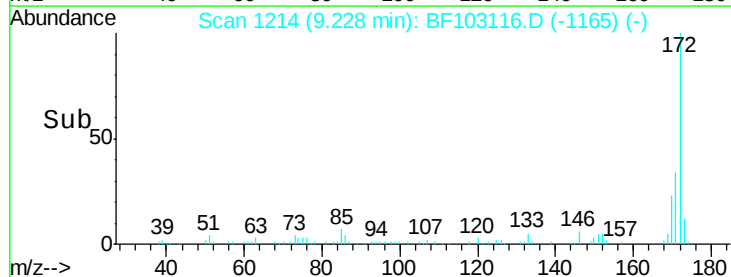
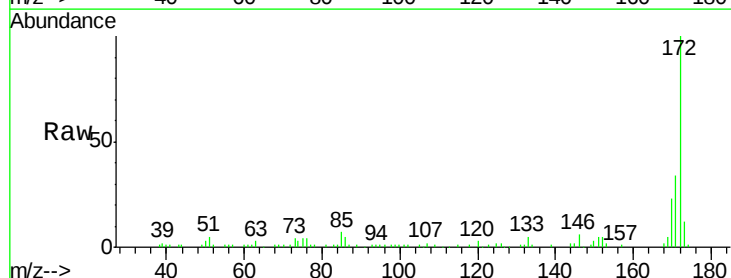
Tgt Ion:172 Resp: 54830

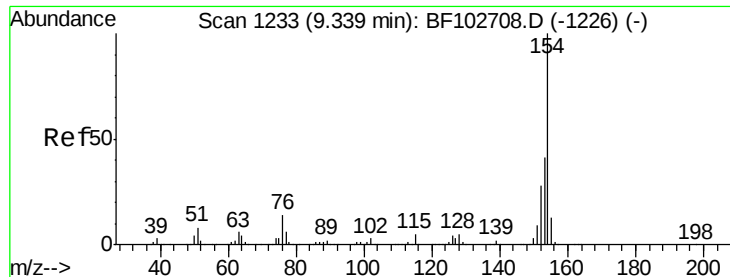
Ion Ratio Lower Upper

172 100

171 33.7 29.7 44.5

170 23.3 19.6 29.4





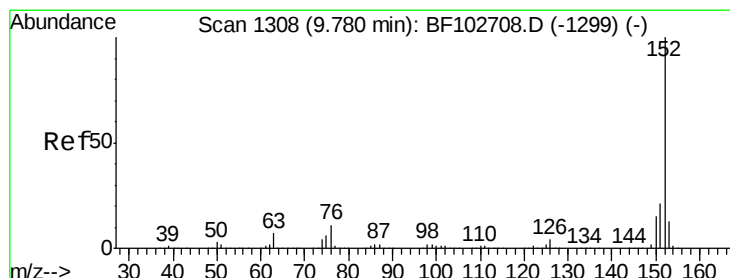
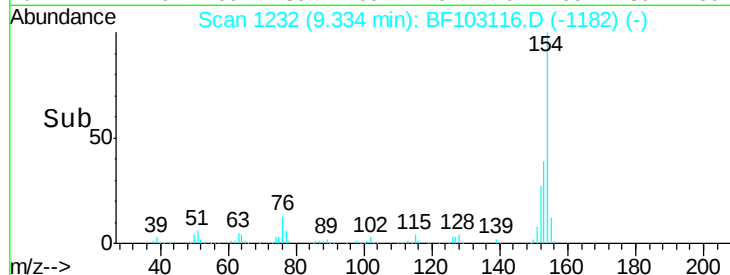
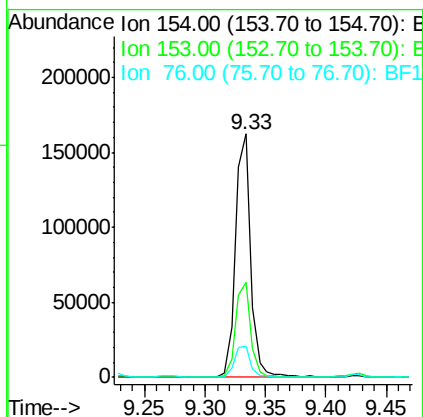
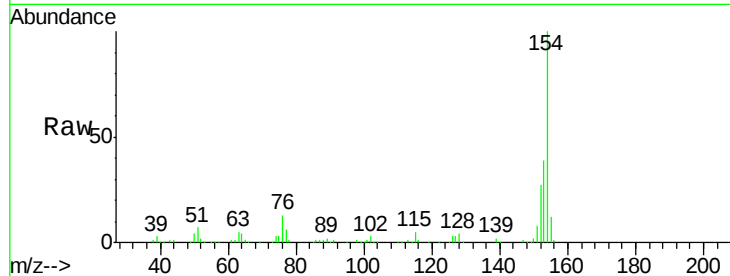
#45  
1,1'-Biphenyl  
Concen: 5.775 ng  
RT: 9.33 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 143971 |       |       |
| 153     | 39.0  | 21.3   | 61.3  |       |
| 76      | 13.0  | 0.0    | 34.0  |       |

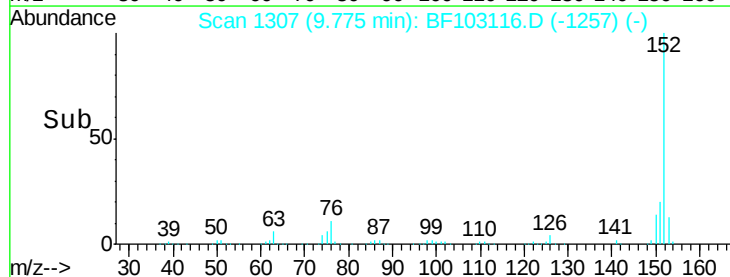
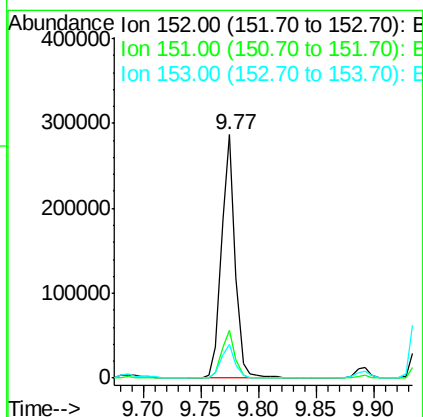
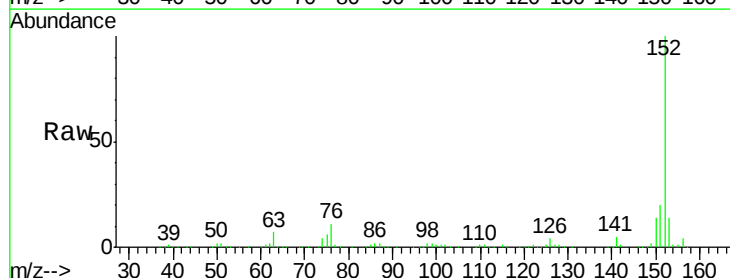
Manual Integrations  
APPROVED

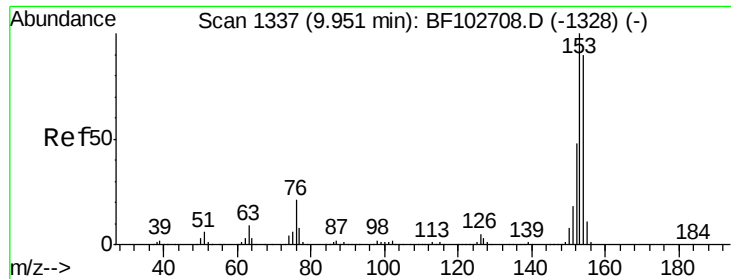
Sohil  
2/21/2018 10:10:55 AM



#48  
Acenaphthylene  
Concen: 7.742 ng  
RT: 9.77 min Scan# 1307  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 235990 |       |       |
| 151     | 19.8  | 16.3   | 24.5  |       |
| 153     | 13.7  | 10.7   | 16.1  |       |





#51

Acenaphthene

Concen: 33.325 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

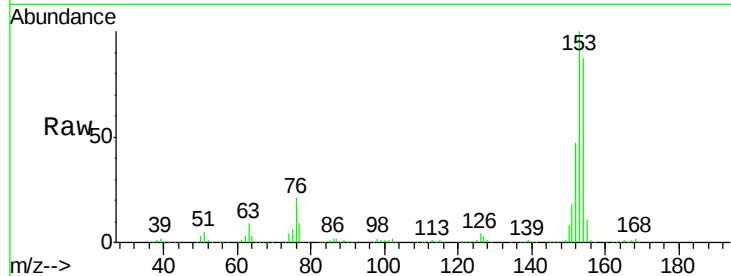
ClientSampleId :

A2\_SB68\_BOT\_10DL

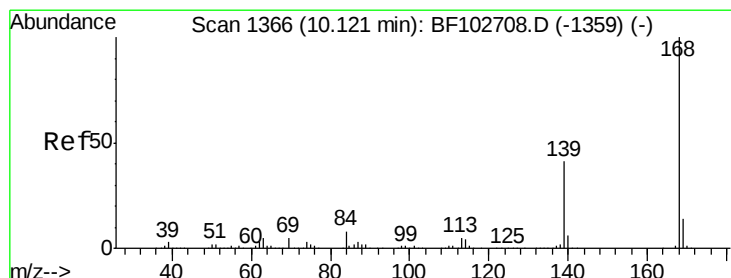
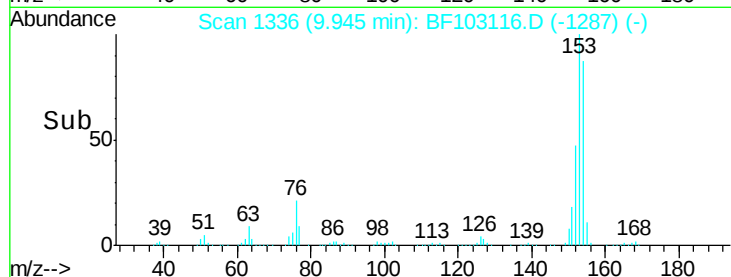
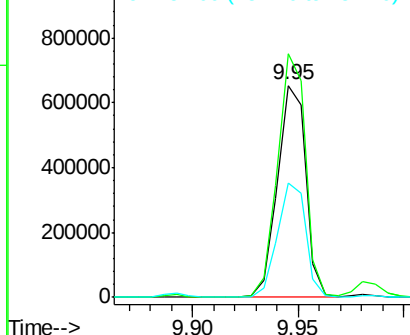
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 607487 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 114.8 | 91.2  | 136.8  |
| 152       | 53.9  | 43.8  | 65.8   |

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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: 24.264 ng

RT: 10.12 min Scan# 1365

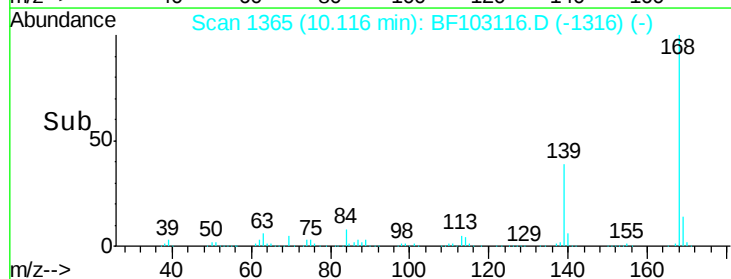
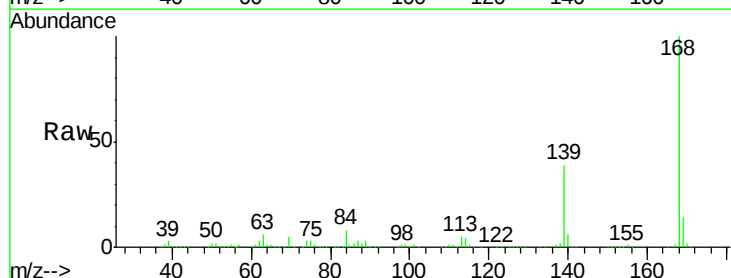
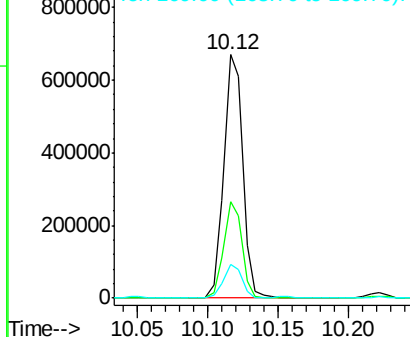
Delta R.T. -0.01 min

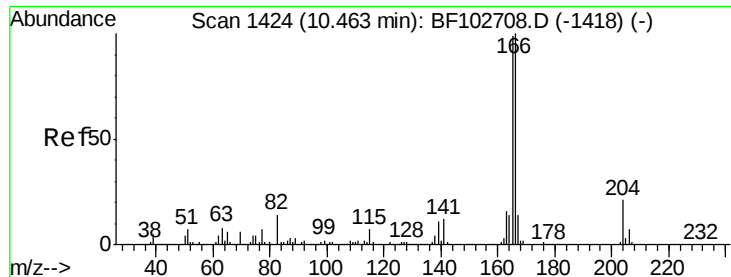
Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 623337 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 39.5  | 30.1  | 45.1   |
| 169       | 13.9  | 10.9  | 16.3   |

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





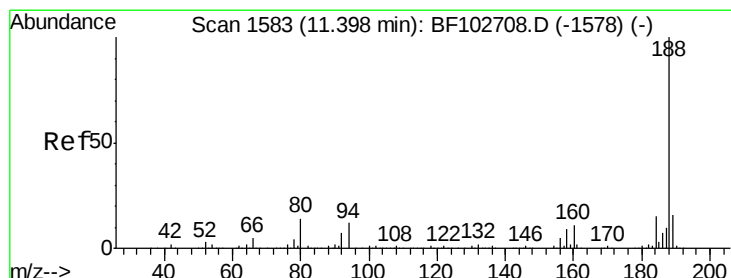
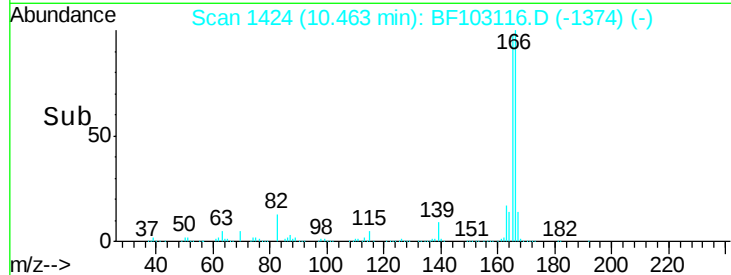
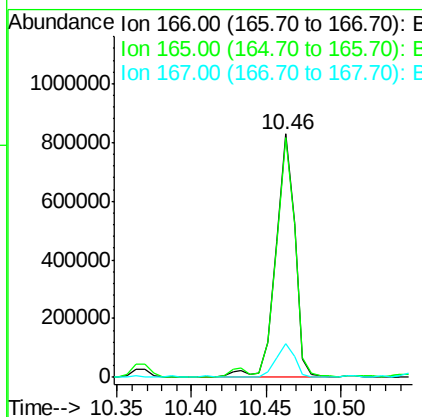
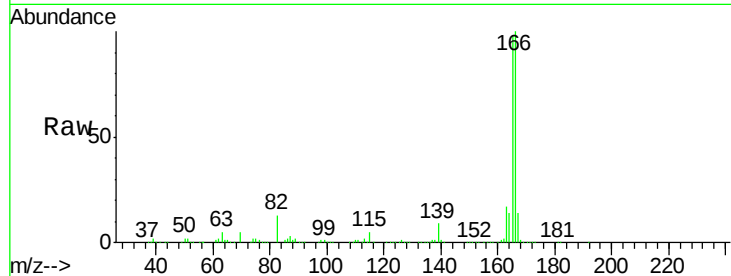
#57  
**Fluorene**  
 Concen: 39.485 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF103116.D  
 Acq: 20 Feb 2018 11:01

Instrument :  
 BNA\_F  
 ClientSampleId :  
 A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 79.8  | 119.8 |
| 167     | 13.6  | 10.6  | 16.0  |

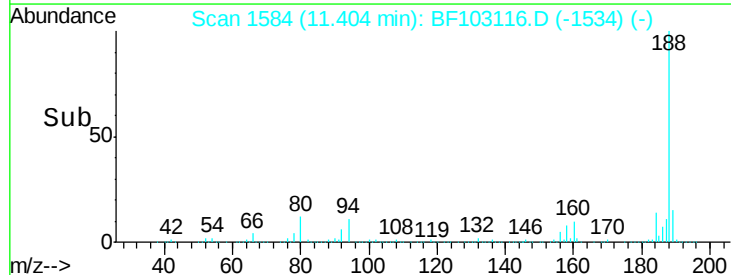
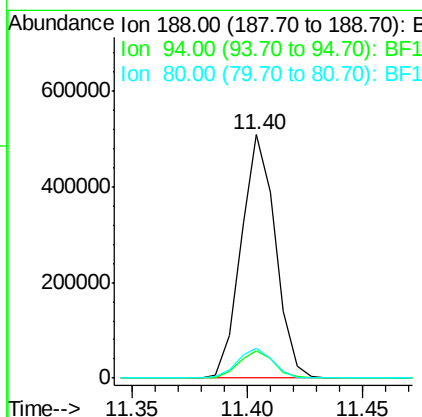
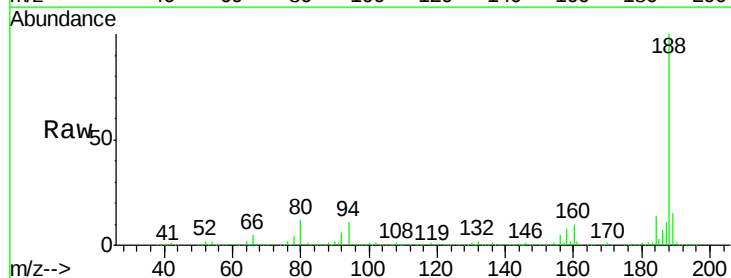
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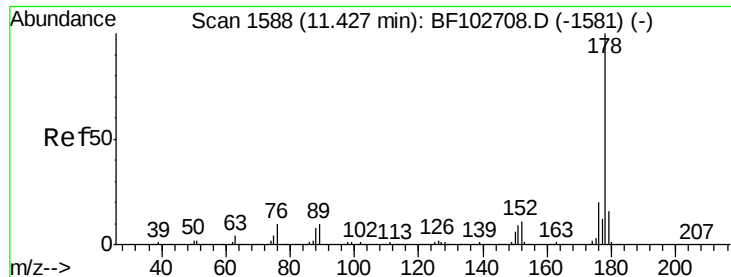
Sohil  
 2/21/2018 10:10:55 AM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF103116.D  
 Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.5  | 8.5   | 12.7  |
| 80      | 12.1  | 9.2   | 13.8  |





#70

Phenanthrene

Concen: 69.303 ng

RT: 11.44 min Scan# 1590

Delta R.T. 0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

ClientSampleId :

A2\_SB68\_BOT\_10DL

Tot Ion:178 Resp: 2031358

Ion Ratio Lower Upper

178 100

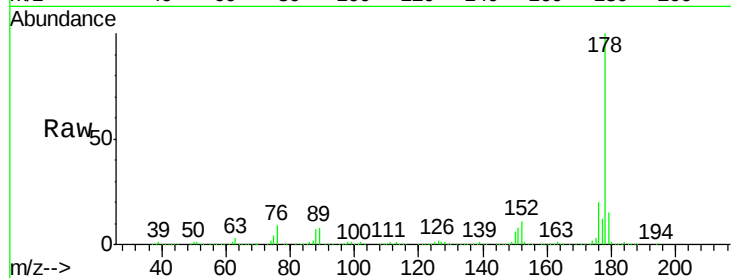
176 19.9 15.8 23.8

179 15.3 13.0 19.6

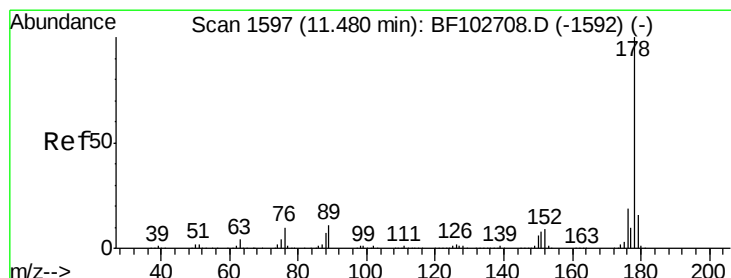
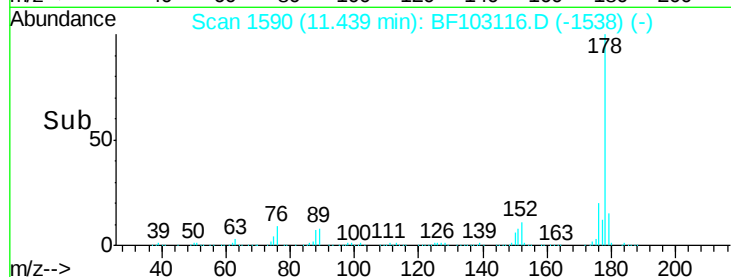
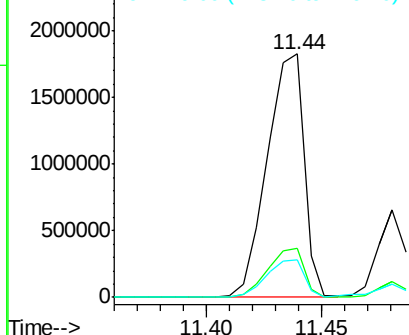
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Abundance Ion 178.00 (177.70 to 178.70): E  
2500000  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 17.341 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Tgt Ion:178 Resp: 516989

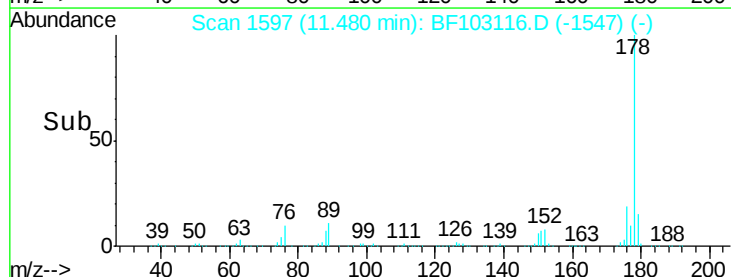
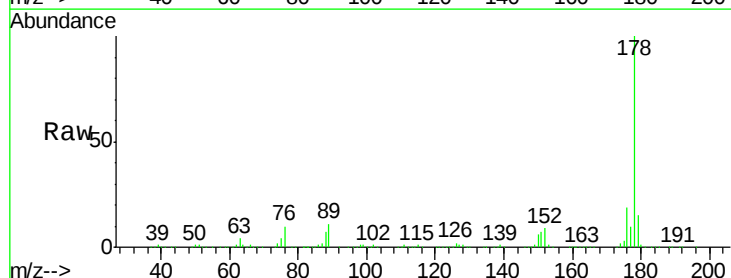
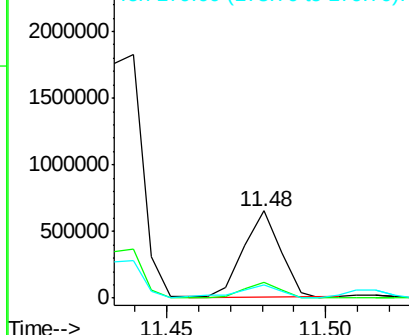
Ion Ratio Lower Upper

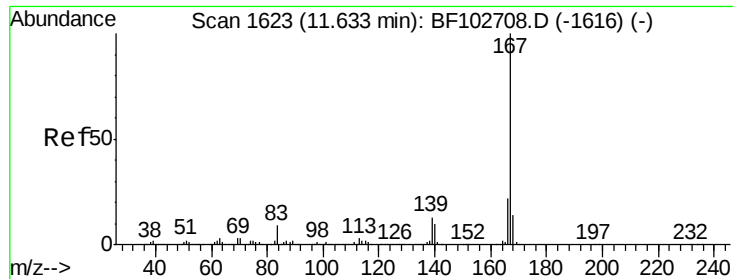
178 100

176 18.8 15.4 23.2

179 15.3 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E  
2500000  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 11.736 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

ClientSampleId :

A2\_SB68\_BOT\_10DL

Tot Ion:167 Resp: 342768

Ion Ratio Lower Upper

167 100

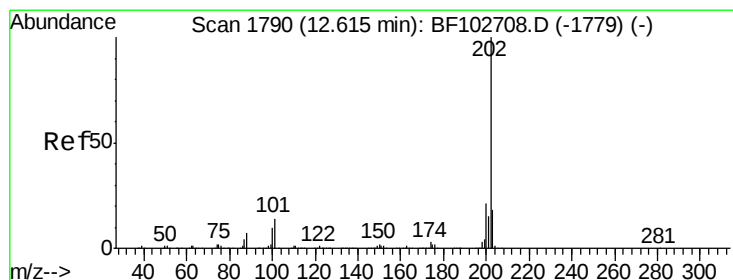
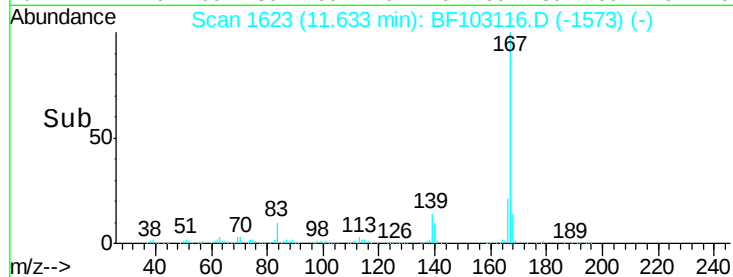
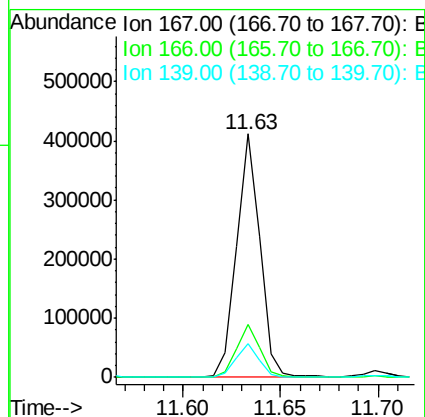
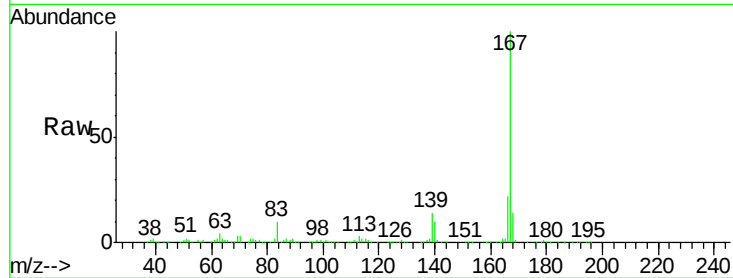
166 21.6 17.6 26.4

139 13.7 10.9 16.3

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#74

Fluoranthene

Concen: 51.548 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.00 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

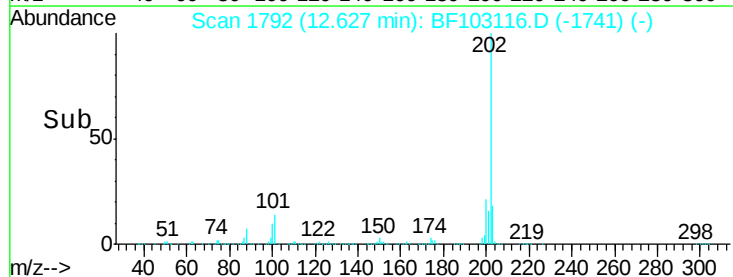
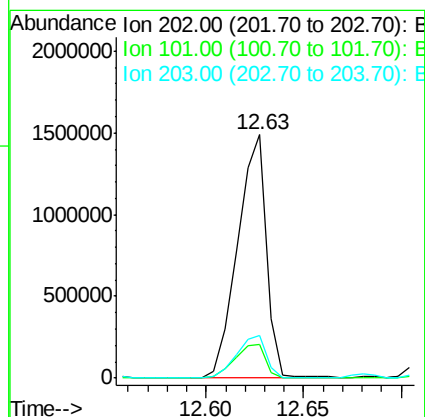
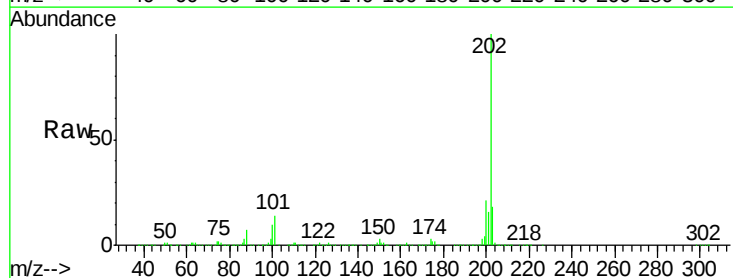
Tgt Ion:202 Resp: 1520186

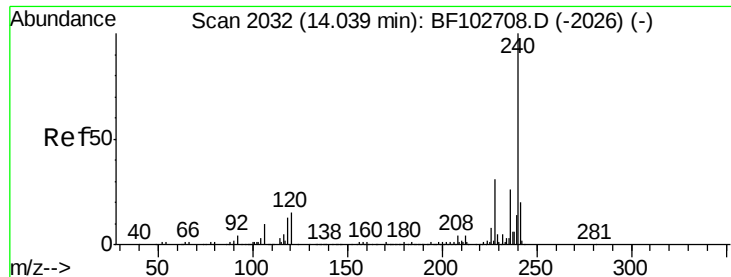
Ion Ratio Lower Upper

202 100

101 13.9 0.0 34.1

203 17.6 0.0 38.1





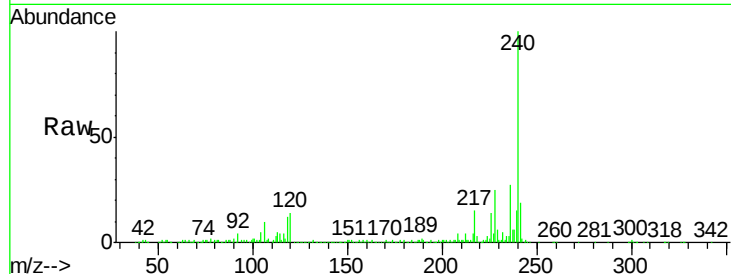
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

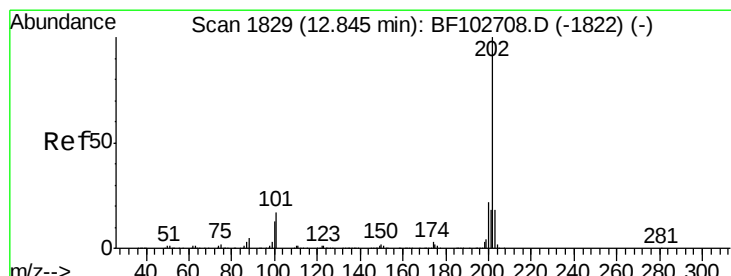
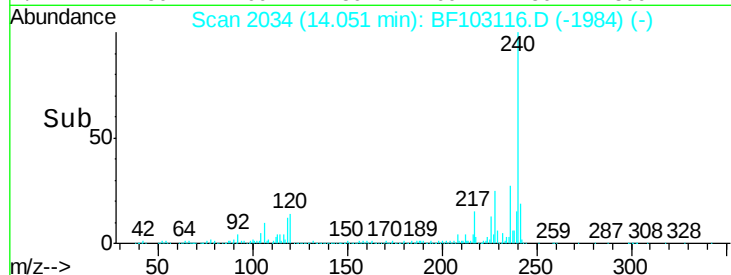
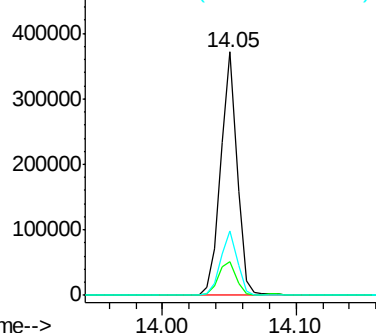
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.0  | 9.5   | 14.3  |
| 236     | 26.6  | 20.7  | 31.1  |

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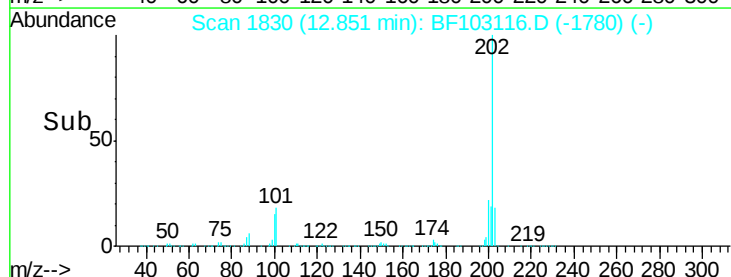
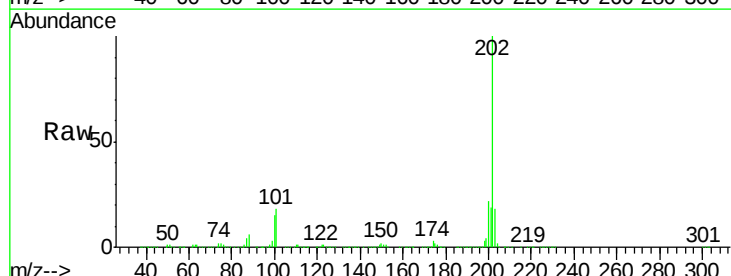
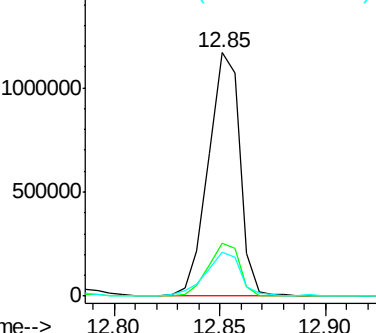
Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

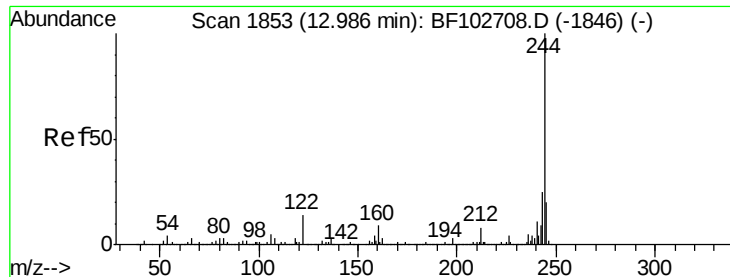


#77  
Pyrene  
Concen: 48.889 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.4  | 26.2  |
| 203     | 18.3  | 14.3  | 21.5  |

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: 3.748 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

Instrument :

BNA\_F

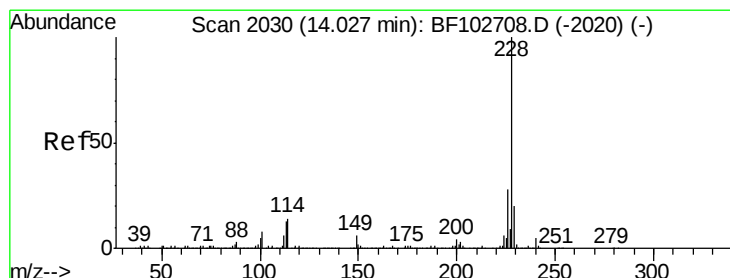
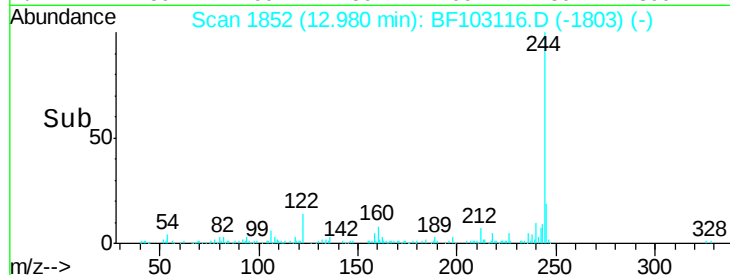
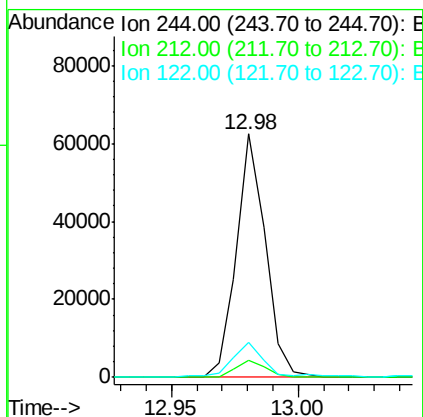
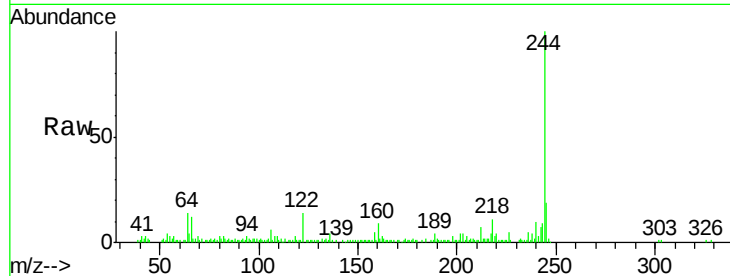
ClientSampleId :

A2\_SB68\_BOT\_10DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 49711 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.0   | 5.4   | 8.0   |
| 122       | 14.5  | 11.0  | 16.4  |

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#80

Benzo(a)anthracene

Concen: 29.677 ng m

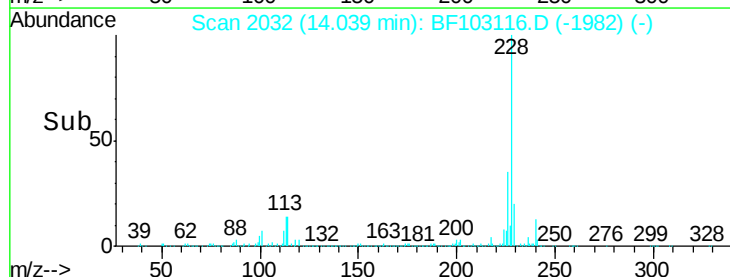
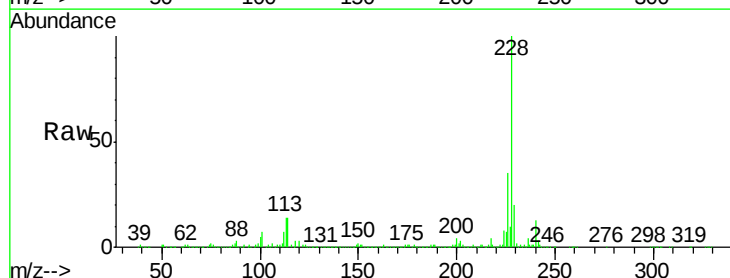
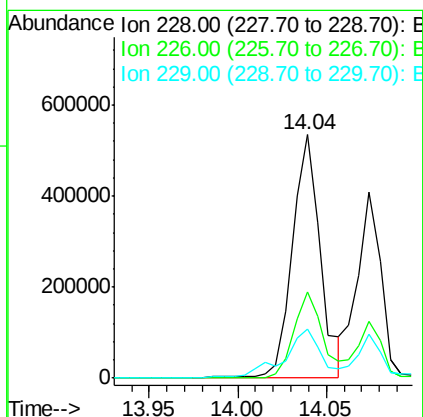
RT: 14.04 min Scan# 2032

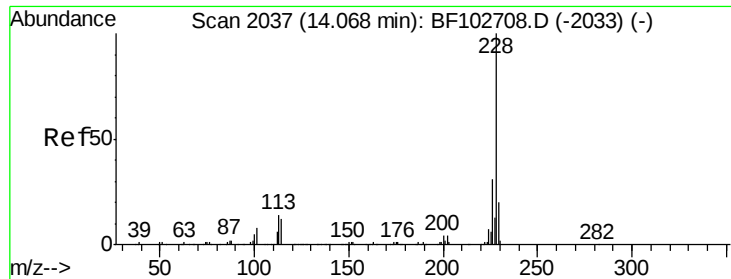
Delta R.T. -0.01 min

Lab File: BF103116.D

Acq: 20 Feb 2018 11:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 586148 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 35.3  | 22.6  | 33.8#  |
| 229       | 20.1  | 15.8  | 23.6   |





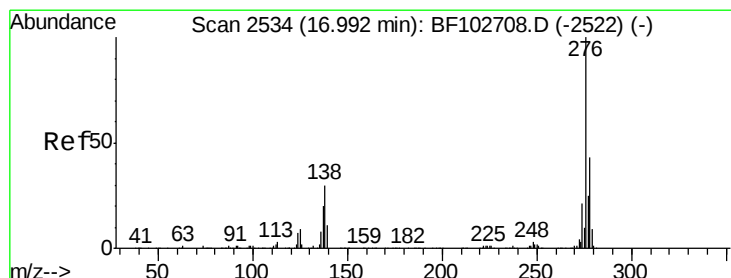
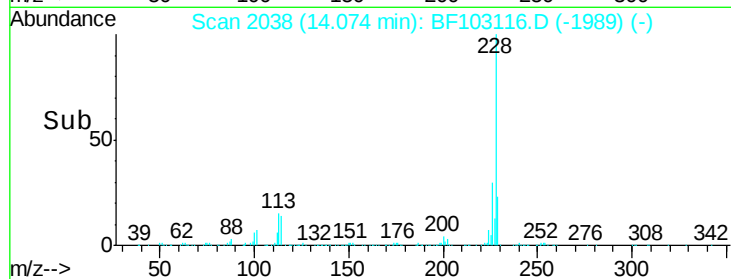
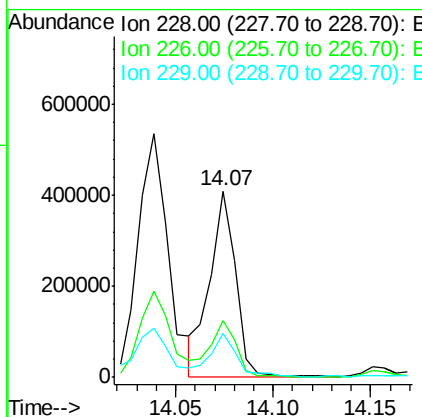
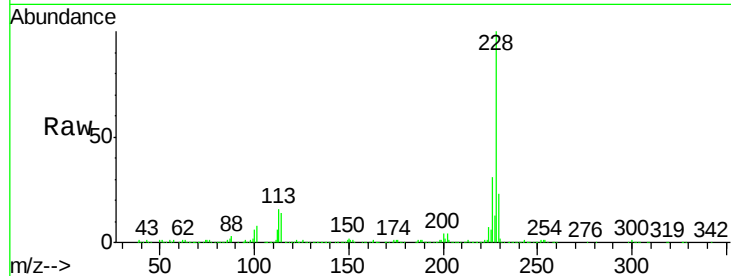
#82  
Chrysene  
Concen: 18.809 ng  
RT: 14.07 min Scan# 2038  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 25.0  | 37.6  |
| 229     | 23.4  | 16.2  | 24.4  |

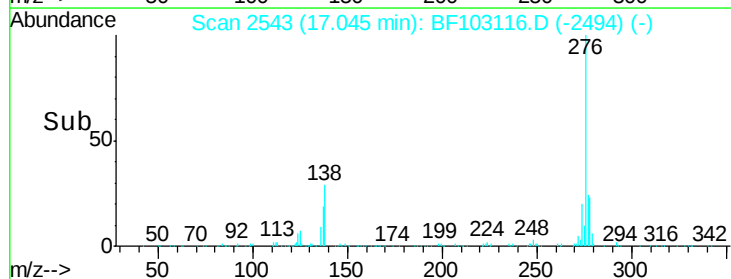
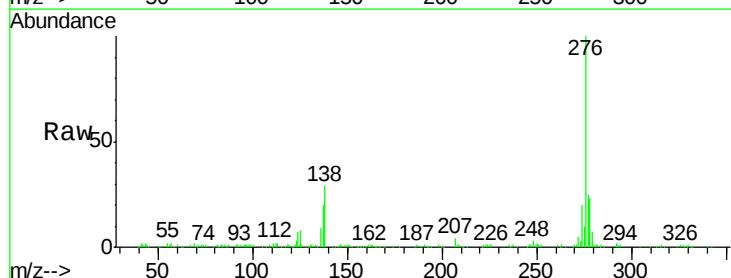
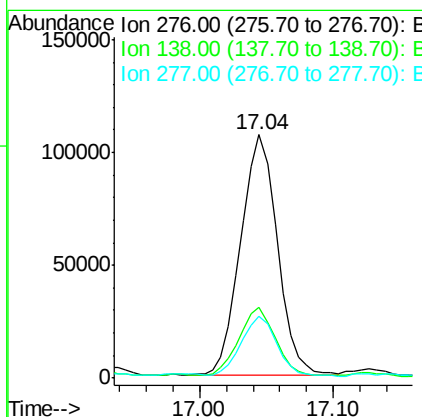
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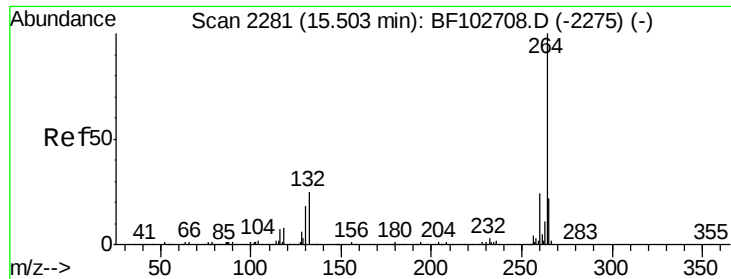
Sohil  
2/21/2018 10:10:55 AM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 12.275 ng  
RT: 17.04 min Scan# 2543  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.8  | 25.0  | 37.6  |
| 277     | 24.2  | 20.1  | 30.1  |





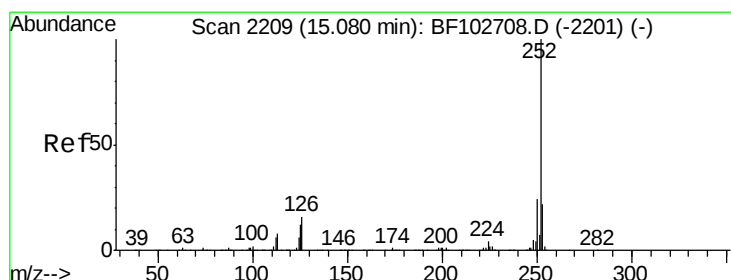
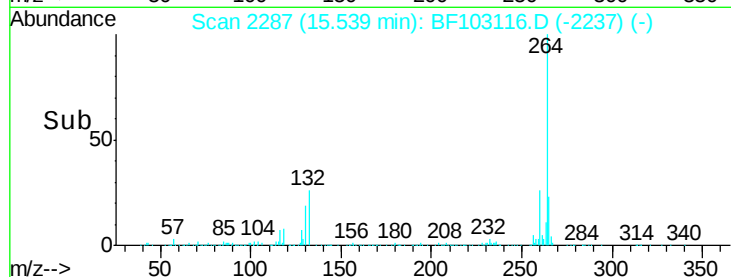
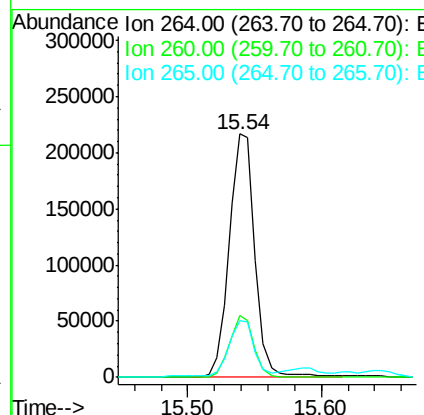
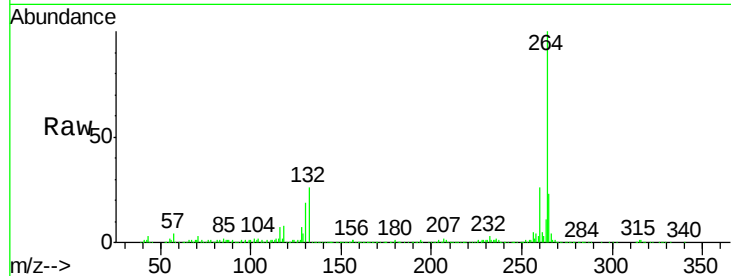
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 19.2  | 28.8  |
| 265     | 23.3  | 17.5  | 26.3  |

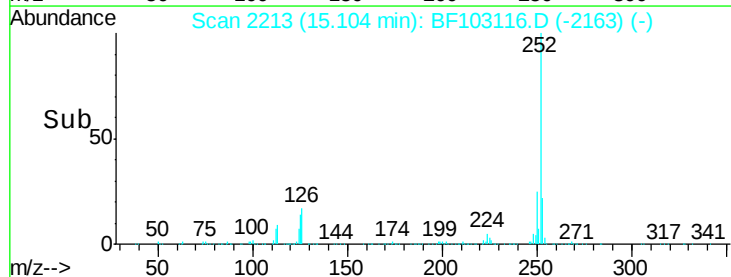
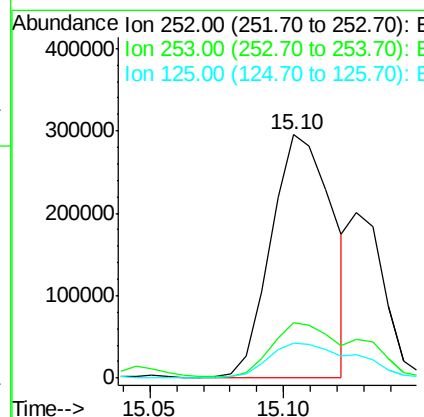
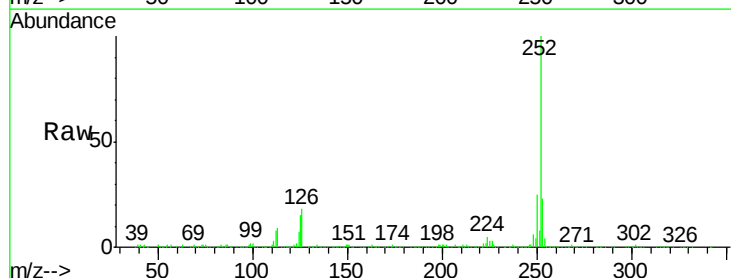
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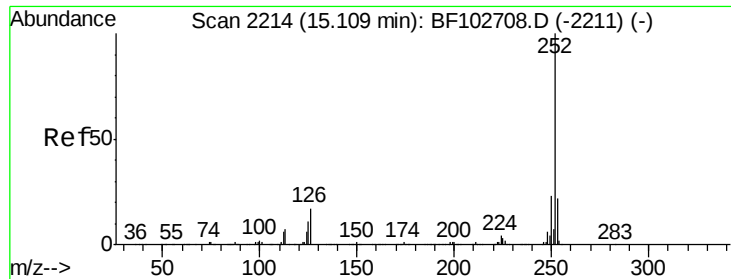
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#87  
Benzo(b)fluoranthene  
Concen: 24.687 ng m  
RT: 15.10 min Scan# 2213  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.0  | 25.6  |
| 125     | 14.5  | 9.0   | 13.6  |





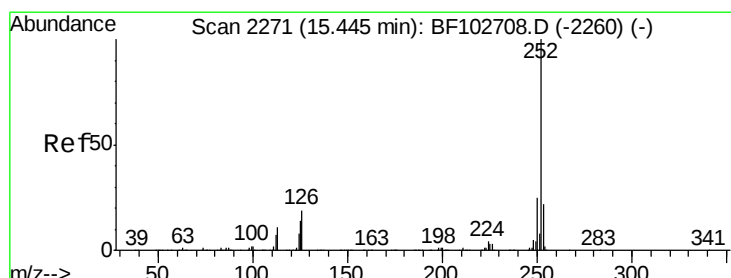
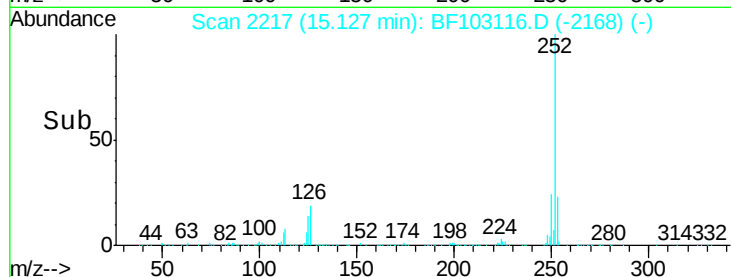
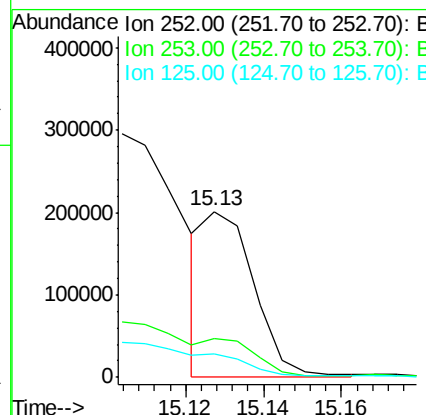
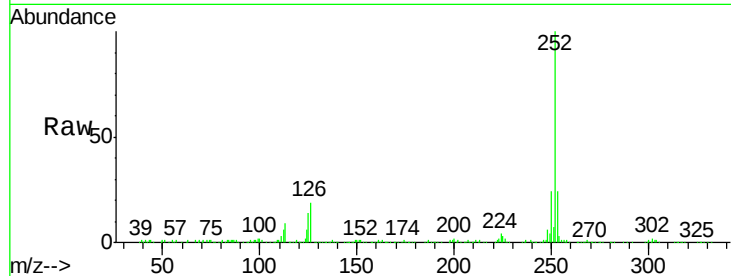
#88  
Benzo(k)fluoranthene  
Concen: 9.796 ng m  
RT: 15.13 min Scan# 2217  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.9  | 26.9  |
| 125     | 14.3  | 10.2  | 15.2  |

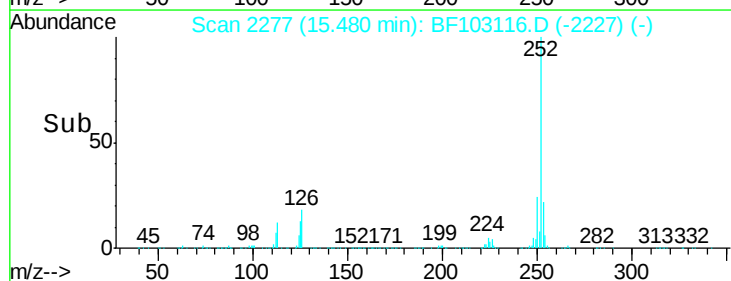
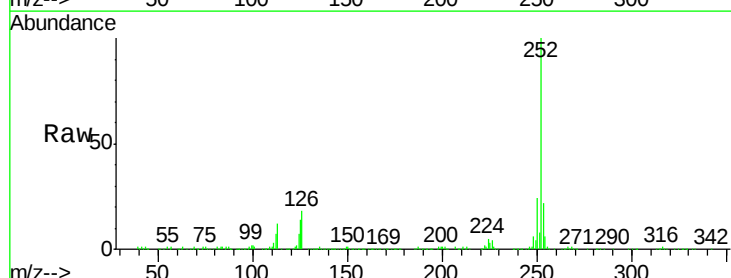
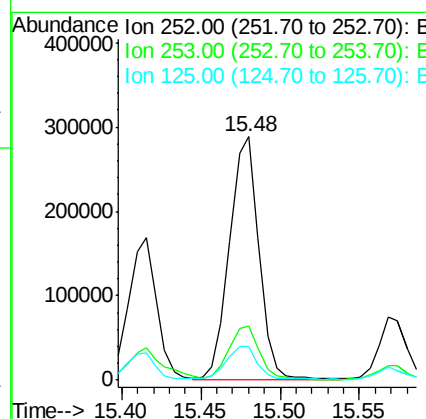
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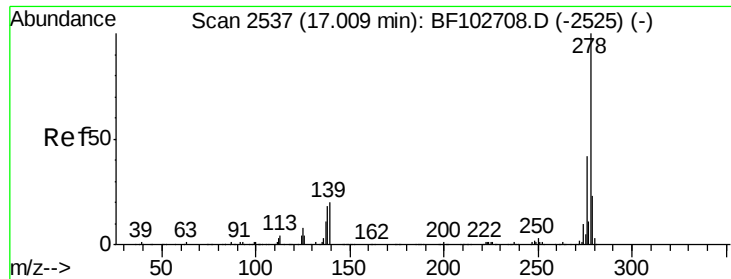
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2/21/2018 10:10:55 AM



#89  
Benzo(a)pyrene  
Concen: 21.477 ng  
RT: 15.48 min Scan# 2277  
Delta R.T. -0.01 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.1  | 25.7  |
| 125     | 13.7  | 9.8   | 14.6  |





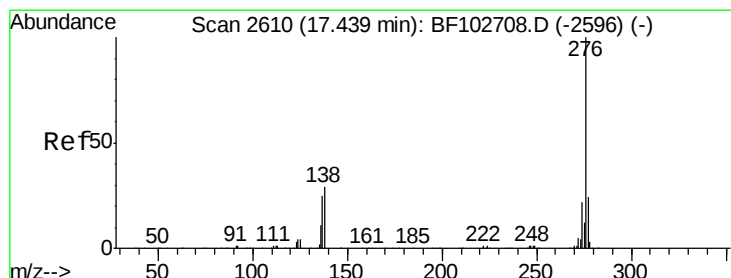
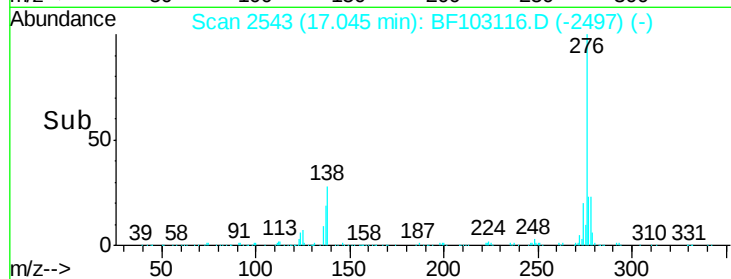
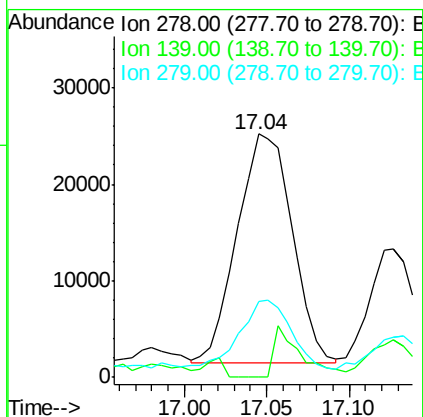
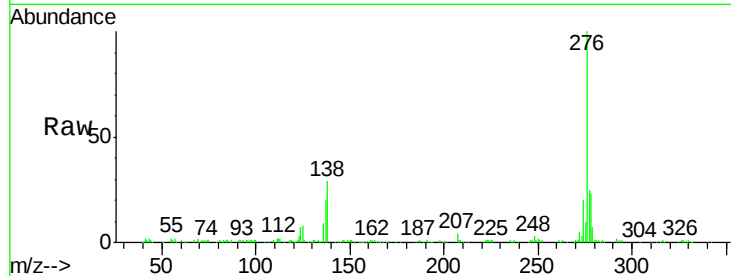
#90  
Dibenzo(a,h)anthracene  
Concen: 3.965 ng/mL  
RT: 17.04 min Scan# 2543  
Delta R.T. -0.03 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

Instrument :  
BNA\_F  
ClientSampleId :  
A2\_SB68\_BOT\_10DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 15.9  | 23.9# |
| 279     | 31.4  | 19.0  | 28.4# |

Manual Integrations  
APPROVED

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2/21/2018 10:10:55 AM



#91  
Benzo(g,h,i)perylene  
Concen: 13.331 ng/mL  
RT: 17.50 min Scan# 2621  
Delta R.T. -0.02 min  
Lab File: BF103116.D  
Acq: 20 Feb 2018 11:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 17.9  | 26.9  |
| 138     | 28.9  | 21.8  | 32.8  |

