

Data Path : S:\HPCHEM1\BNA\_F\DATA\BF031016\  
 Data File : BF085342.D  
 Acq On : 10 Mar 2016 19:30  
 Operator : UM/SJ  
 Sample : H1753-21  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP3

Manual Integrations  
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 3/11/2016 4:58:29 PM

Quant Time: Mar 11 10:05:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 11 00:01:03 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.94  | 152  | 152545   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.22  | 136  | 548349   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.98  | 164  | 219958   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.46 | 188  | 364058   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.11 | 240  | 244724   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.57 | 264  | 255675   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.54  | 112  | 987893   | 108.63 | ng    | 0.01     |
| 7) Phenol-d6                | 6.56  | 99   | 1079243  | 90.58  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 685415   | 66.89  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.77 | 330  | 220886   | 117.36 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.30  | 172  | 1091179  | 75.45  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.05 | 244  | 778949   | 73.89  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.69  | 163  | 141559   | 8.38   | ng    | 99       |
| 70) Phenanthrene            | 11.49 | 178  | 202551   | 10.62  | ng    | 97       |
| 71) Anthracene              | 11.53 | 178  | 51775    | 2.56   | ng    | 98       |
| 74) Fluoranthene            | 12.68 | 202  | 230303   | 12.03  | ng    | 97       |
| 77) Pyrene                  | 12.91 | 202  | 203671   | 11.06  | ng    | 97       |
| 80) Benzo(a)anthracene      | 14.09 | 228  | 95316m   | 6.51   | ng    |          |
| 82) Chrysene                | 14.13 | 228  | 82903m   | 6.13   | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 17.02 | 276  | 47650    | 4.51   | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 15.13 | 252  | 117140m  | 6.87   | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.17 | 252  | 31598m   | 2.30   | ng    |          |
| 89) Benzo(a)pyrene          | 15.50 | 252  | 78454    | 5.56   | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 17.45 | 276  | 45796    | 3.78   | ng    | 100      |

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

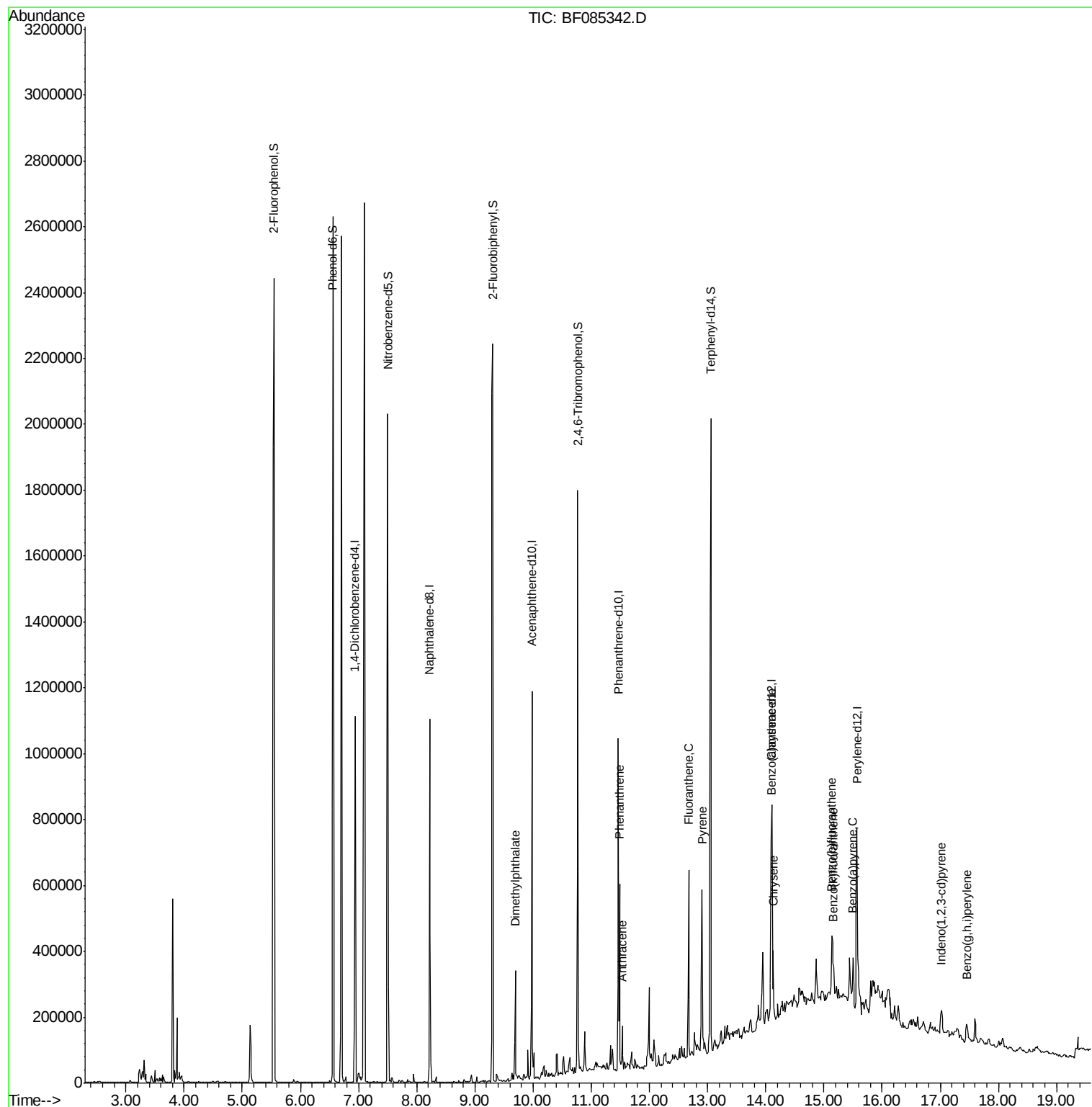
Data Path : S:\HPCHEM1\BNA\_F\DATA\BF031016\  
Data File : BF085342.D  
Acq On : 10 Mar 2016 19:30  
Operator : UM/SJ  
Sample : H1753-21  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

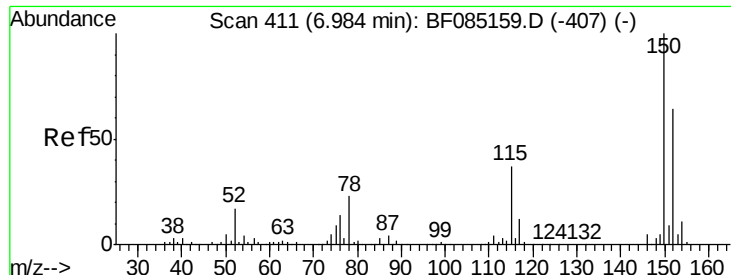
Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP3

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Quant Time: Mar 11 10:05:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 11 00:01:03 2016  
Response via : Initial Calibration





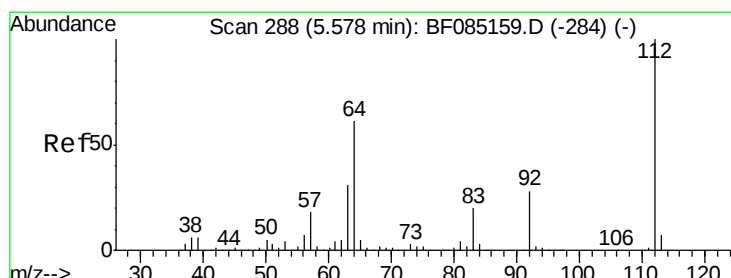
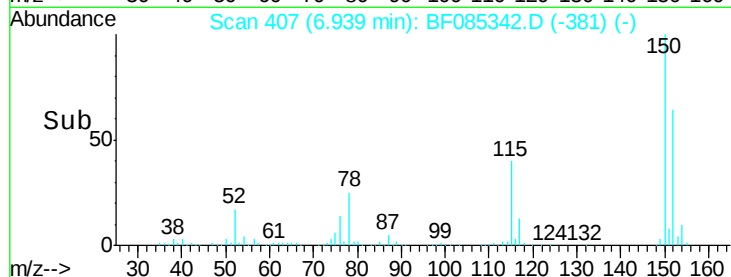
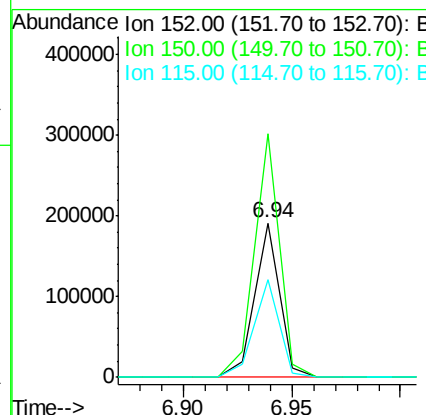
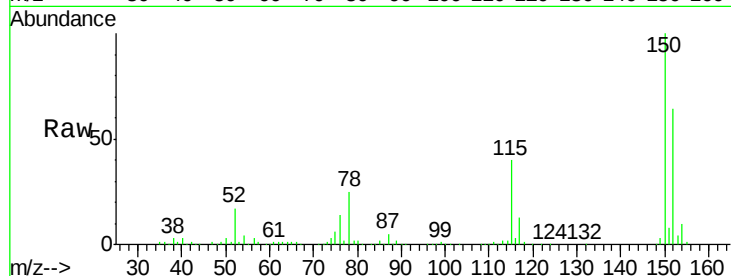
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.94 min Scan# 407  
 Delta R.T. 0.00 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP3

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 152545 |       |       |
| 150     | 157.5 | 124.6  | 186.8 |       |
| 115     | 63.4  | 46.6   | 70.0  |       |

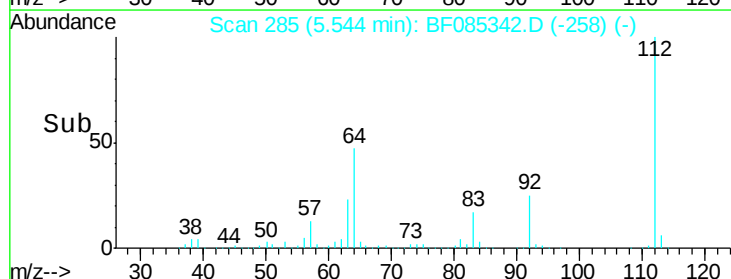
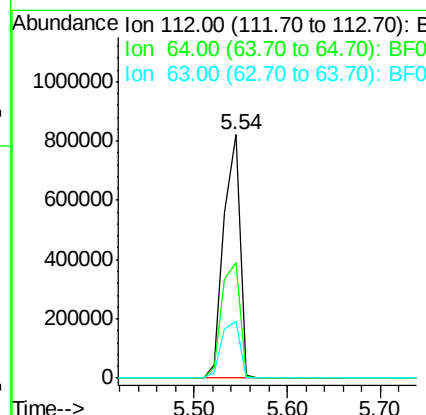
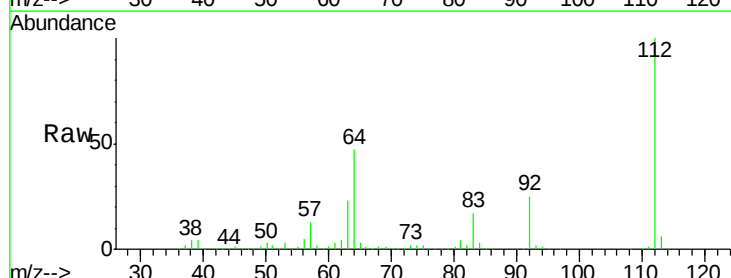
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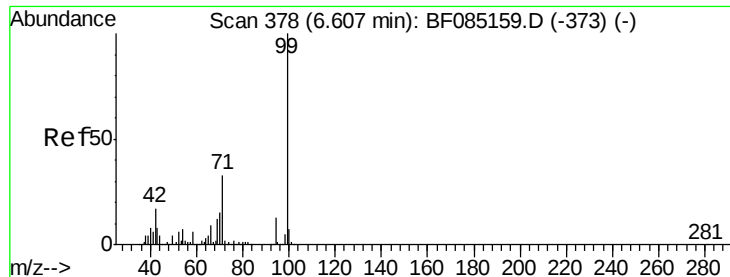
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#5  
 2-Fluorophenol  
 Concen: 108.63 ng  
 RT: 5.54 min Scan# 285  
 Delta R.T. 0.01 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 987893 |       |       |
| 64      | 47.3  | 49.0   | 73.4# |       |
| 63      | 23.5  | 24.8   | 37.2# |       |





#7

Phenol-d6

Concen: 90.58 ng

RT: 6.56 min Scan# 374

Delta R.T. 0.00 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

ClientSampleId :

TEC-COMP3

Tgt Ion: 99 Resp: 1079243

Ion Ratio Lower Upper

99 100

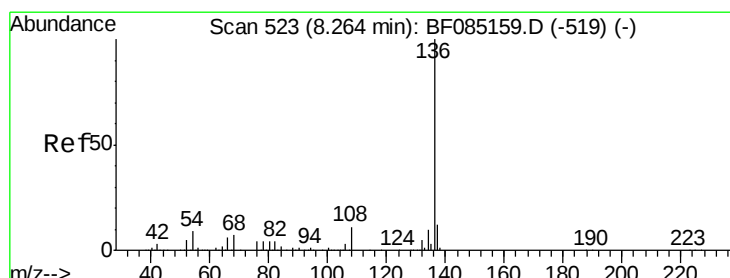
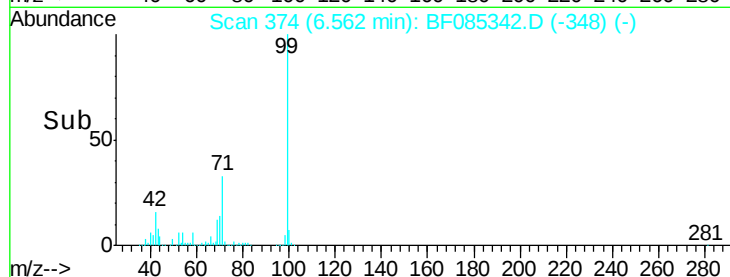
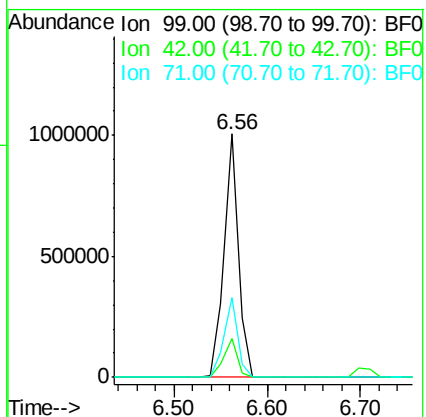
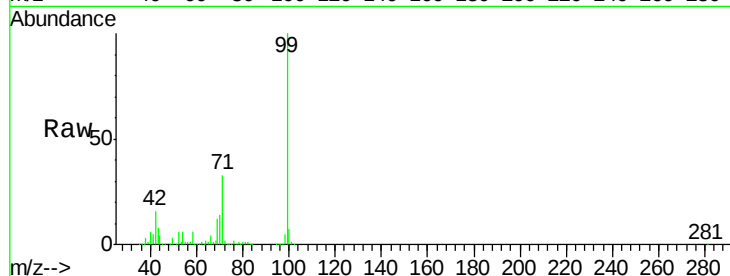
42 15.8 13.6 20.4

71 33.0 26.7 40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.22 min Scan# 519

Delta R.T. -0.01 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

Tgt Ion: 136 Resp: 548349

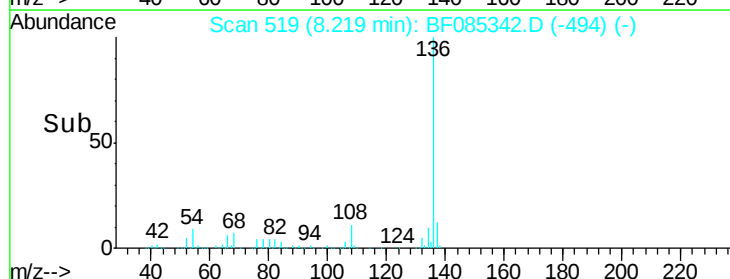
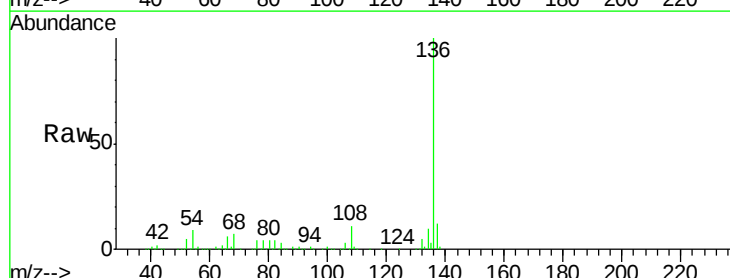
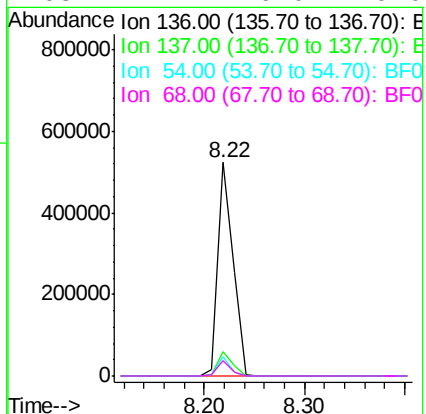
Ion Ratio Lower Upper

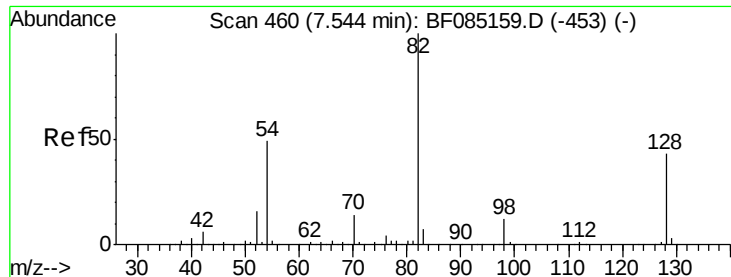
136 100

137 11.5 9.3 13.9

54 9.1 7.4 11.2

68 7.2 6.0 9.0





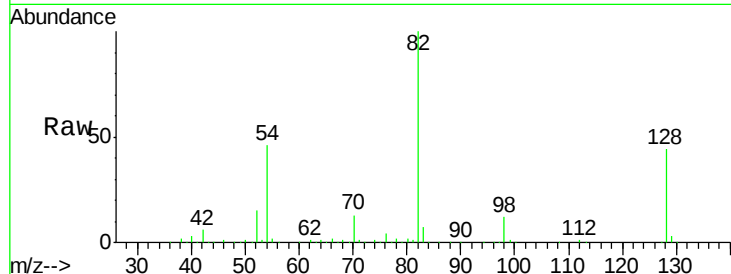
#23  
 Nitrobenzene-d5  
 Concen: 66.89 ng  
 RT: 7.50 min Scan# 456  
 Delta R.T. -0.01 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP3

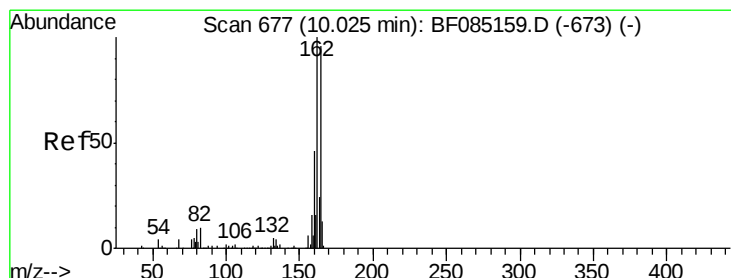
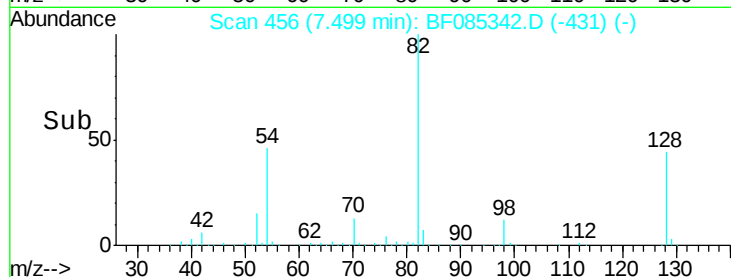
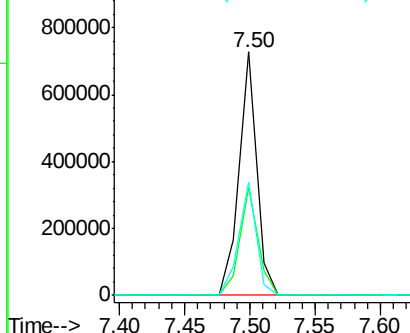
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 685415 |       |       |
| 128     | 44.4  | 34.5   | 51.7  |       |
| 54      | 46.2  | 39.3   | 58.9  |       |

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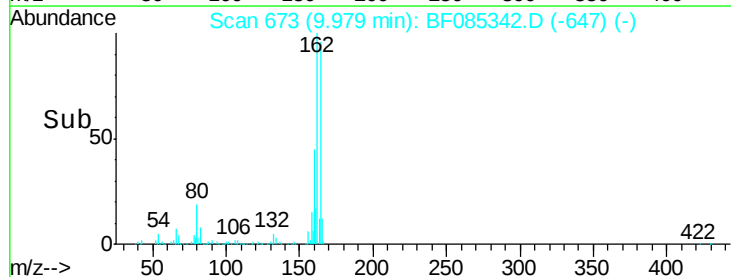
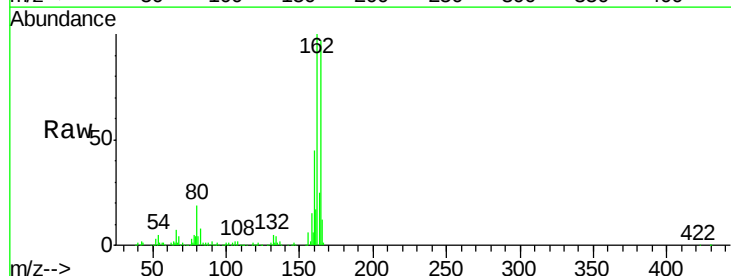
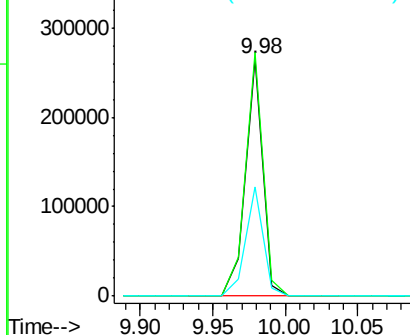
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

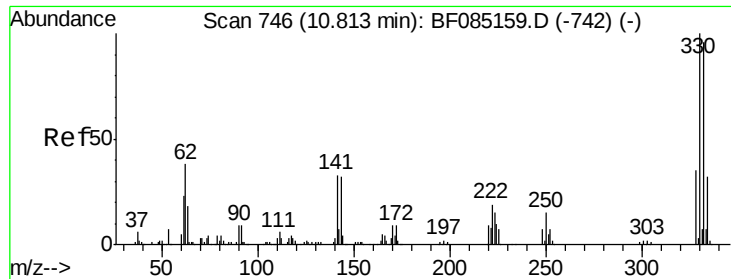


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.98 min Scan# 673  
 Delta R.T. 0.00 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 219958 |       |       |
| 162     | 102.6 | 83.3   | 124.9 |       |
| 160     | 45.8  | 37.9   | 56.9  |       |

Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E





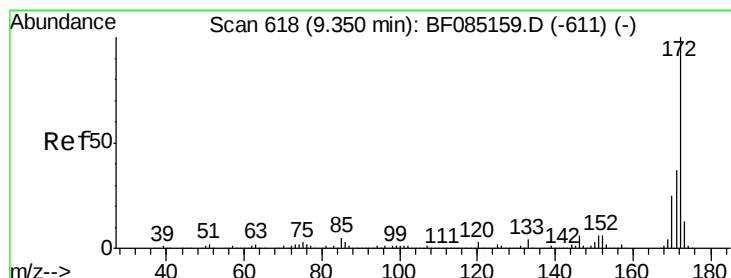
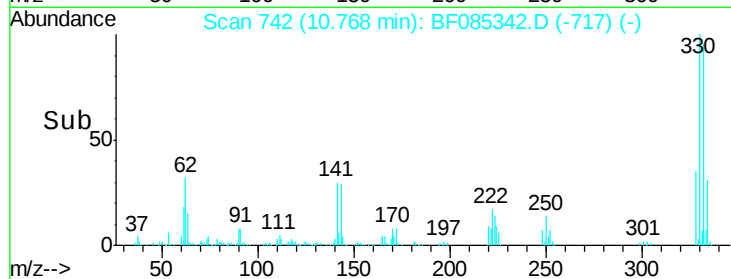
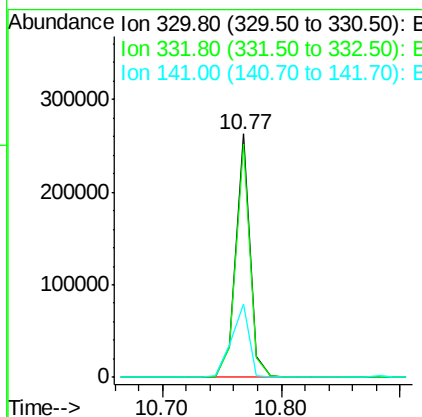
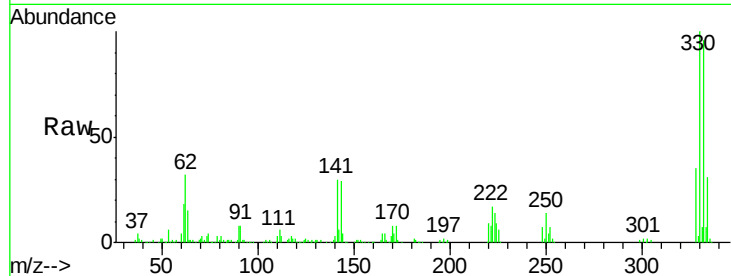
#41  
 2,4,6-Tribromophenol  
 Concen: 117.36 ng  
 RT: 10.77 min Scan# 742  
 Delta R.T. -0.01 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TEC-COMP3

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 220886 |       |       |
| 332     | 96.2  | 77.1   | 115.7 |       |
| 141     | 37.9  | 35.0   | 52.6  |       |

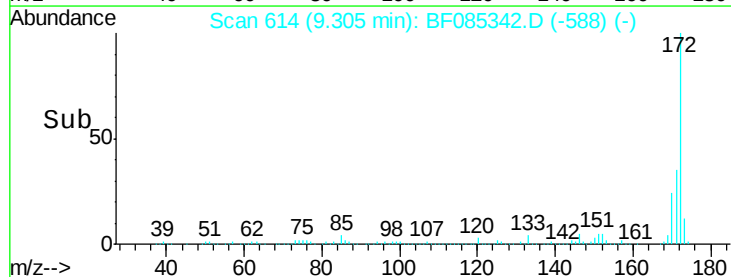
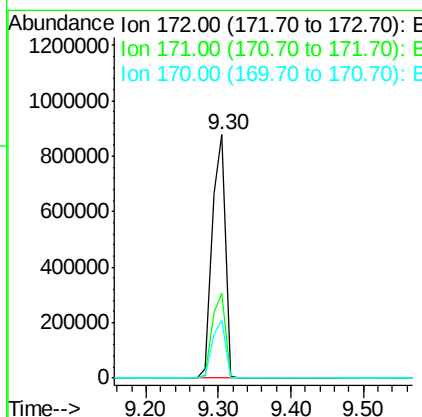
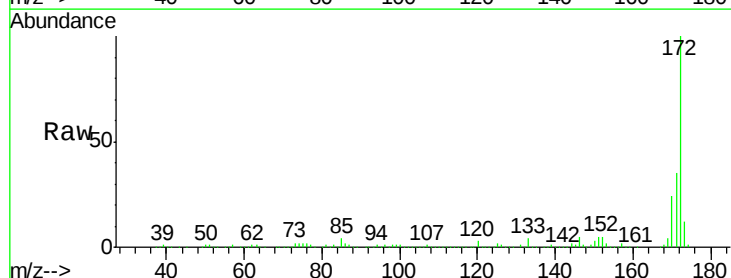
Manual Integrations  
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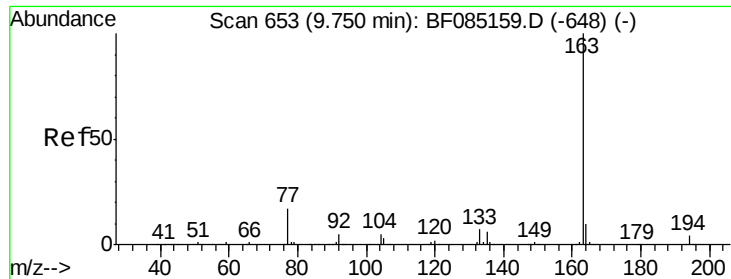
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#44  
 2-Fluorobiphenyl  
 Concen: 75.45 ng  
 RT: 9.30 min Scan# 614  
 Delta R.T. 0.00 min  
 Lab File: BF085342.D  
 Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1091179 |       |       |
| 171     | 34.9  | 29.3    | 43.9  |       |
| 170     | 23.6  | 20.0    | 30.0  |       |





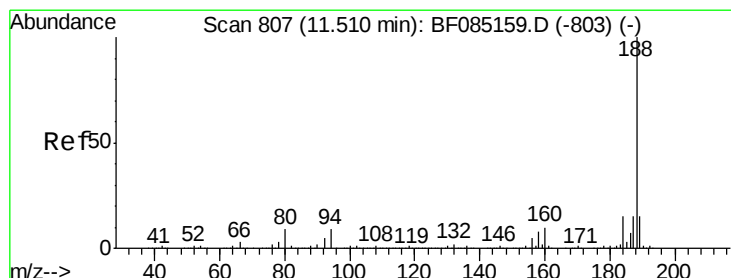
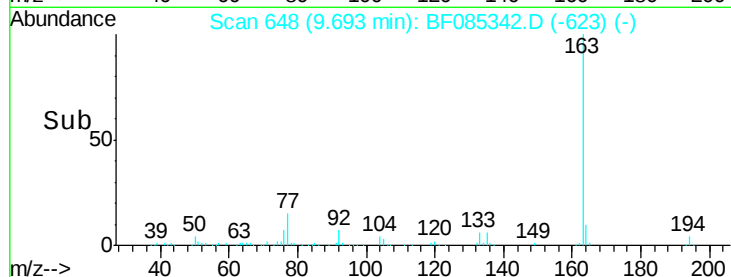
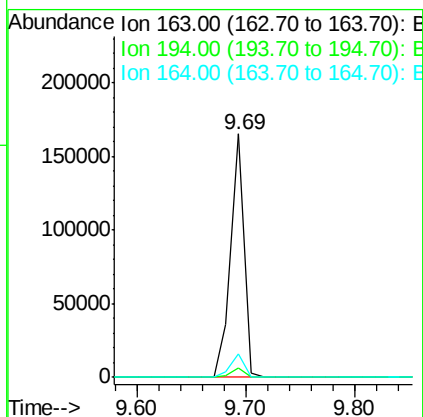
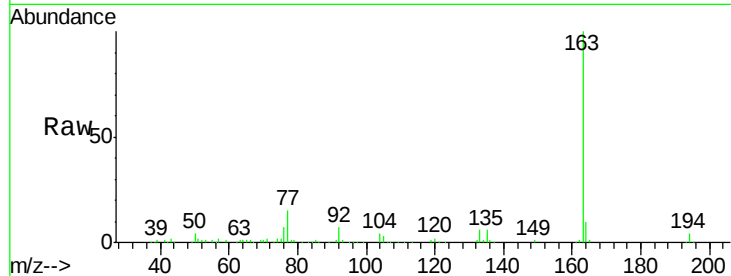
#49  
Dimethylphthalate  
Concen: 8.38 ng  
RT: 9.69 min Scan# 648  
Delta R.T. -0.01 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 141559 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.1   | 4.7    |
| 164       | 9.8   | 8.2   | 12.4   |

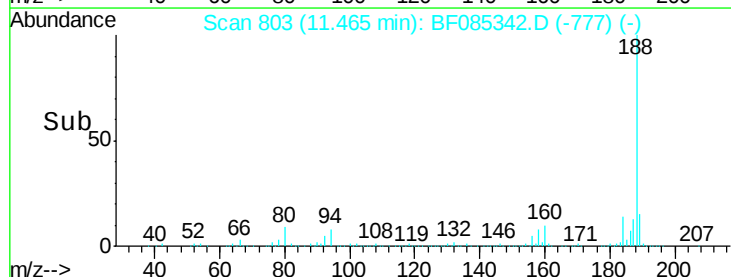
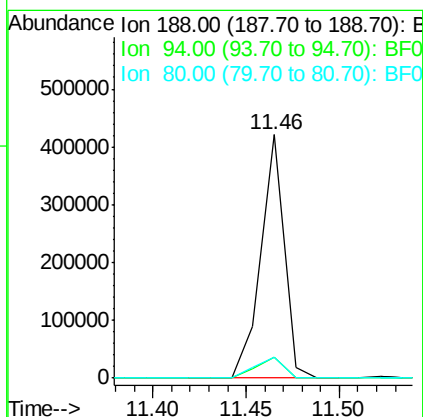
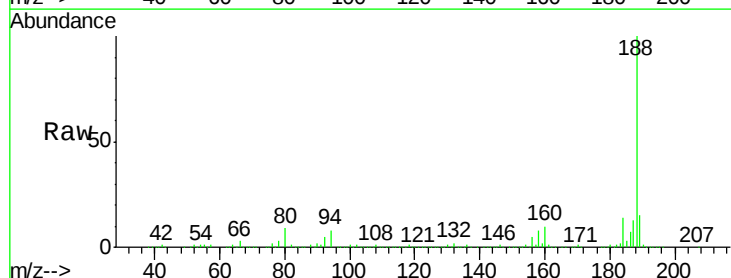
Manual Integrations  
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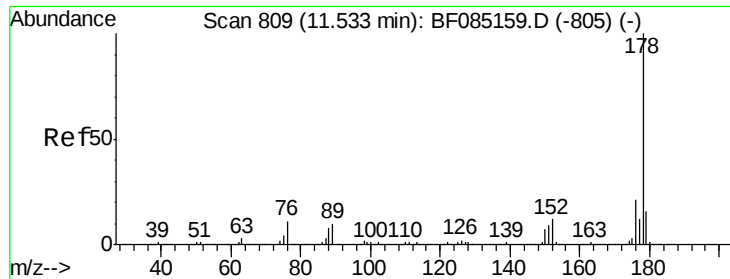
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.46 min Scan# 803  
Delta R.T. 0.00 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 364058 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.4   | 7.0   | 10.6   |
| 80        | 8.7   | 7.4   | 11.0   |





#70

Phenanthrene

Concen: 10.62 ng

RT: 11.49 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

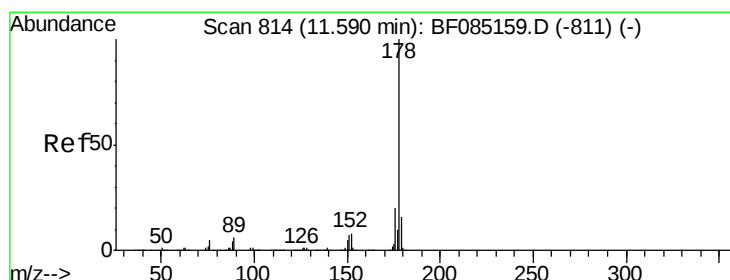
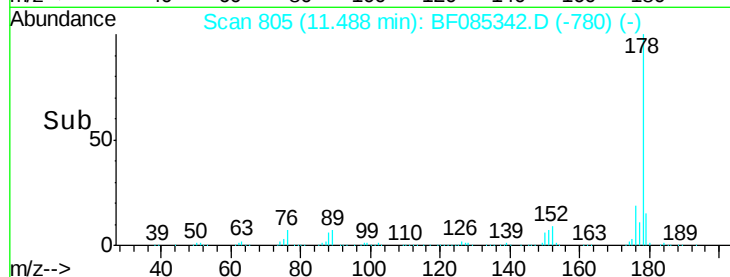
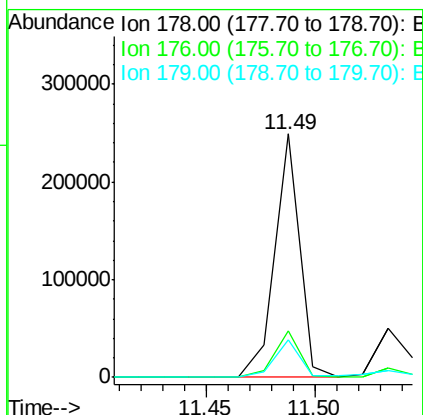
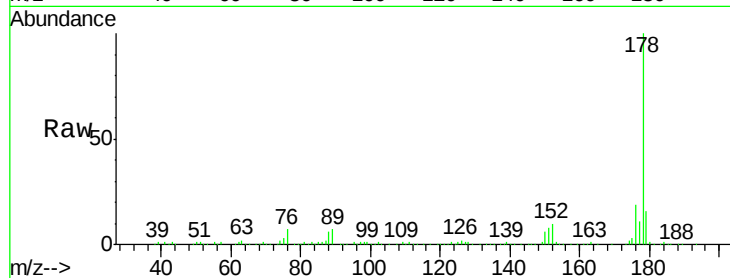
ClientSampleId :

TEC-COMP3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 202551 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.9  | 16.8  | 25.2   |
| 179       | 15.6  | 13.1  | 19.7   |

Manual Integrations  
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#71

Anthracene

Concen: 2.56 ng

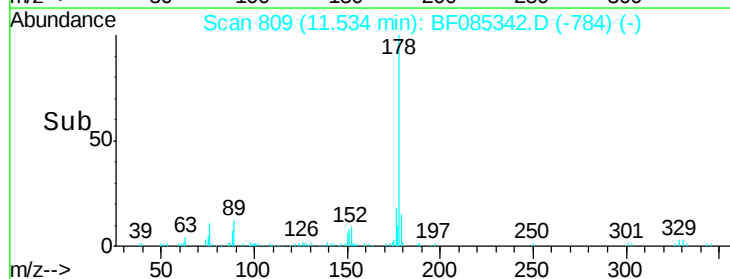
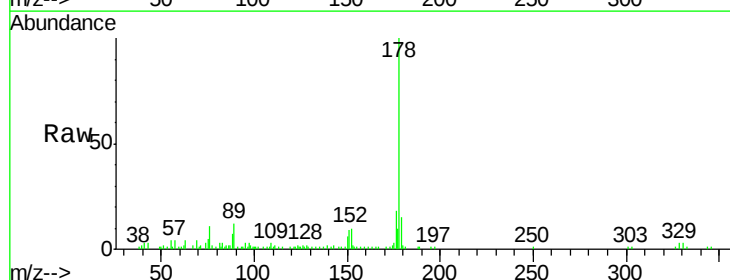
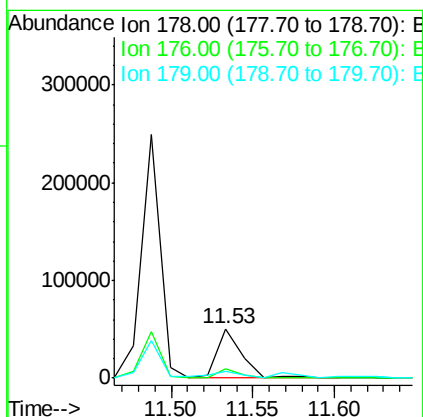
RT: 11.53 min Scan# 809

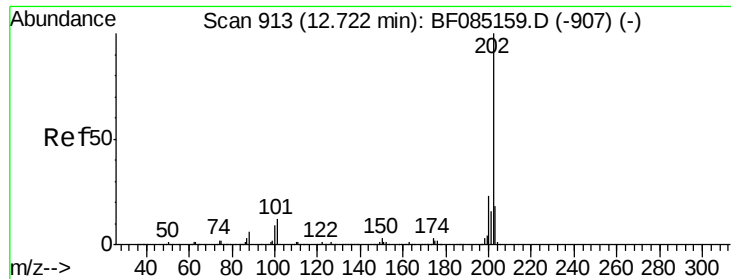
Delta R.T. -0.01 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 51775 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.4  | 15.9  | 23.9  |
| 179       | 15.1  | 12.5  | 18.7  |





#74

Fluoranthene

Concen: 12.03 ng

RT: 12.68 min Scan# 909

Delta R.T. 0.00 min

Lab File: BF085342.D

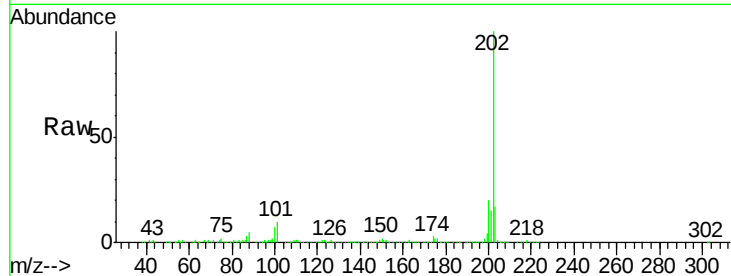
Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

ClientSampleId :

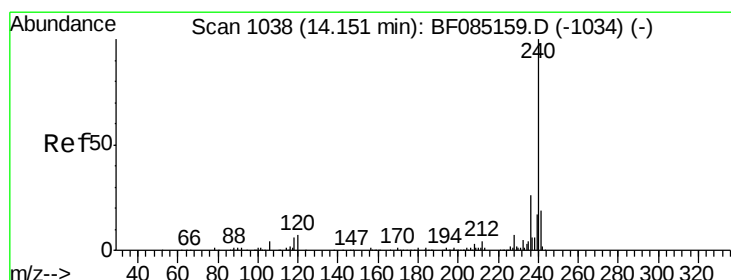
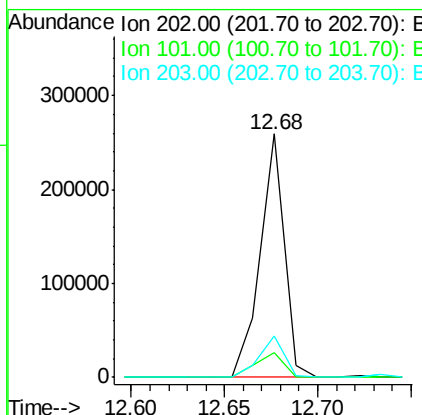
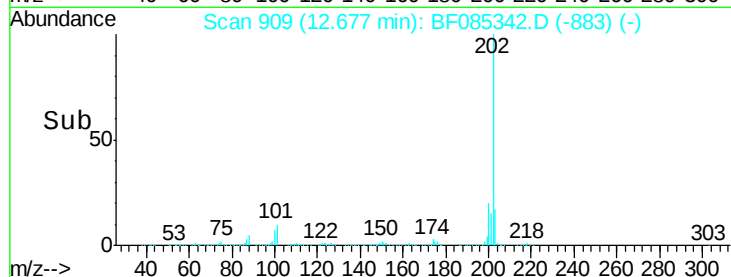
TEC-COMP3



| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.1  | 0.0        | 31.8       |
| 203     | 17.2  | 0.0        | 38.4       |

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#75

Chrysene-d12

Concen: 20.00 ng

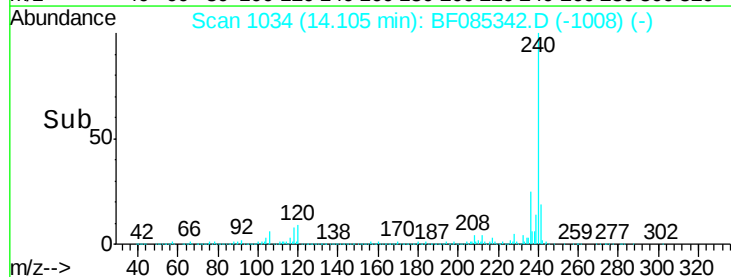
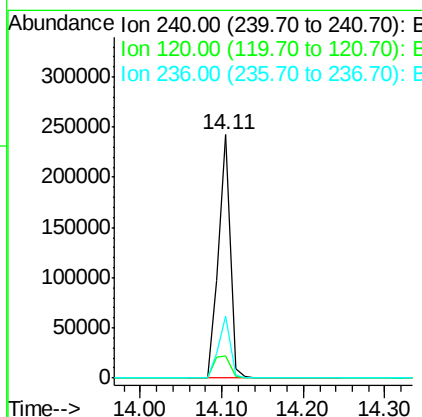
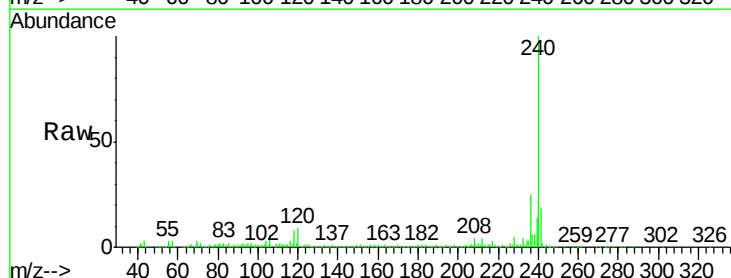
RT: 14.11 min Scan# 1034

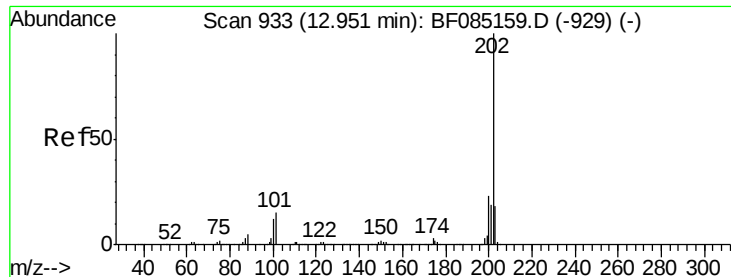
Delta R.T. 0.00 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 9.1   | 5.3        | 7.9#       |
| 236     | 25.4  | 20.7       | 31.1       |





#77

Pyrene

Concen: 11.06 ng

RT: 12.91 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

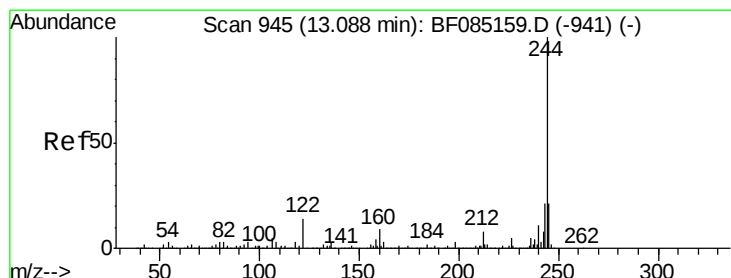
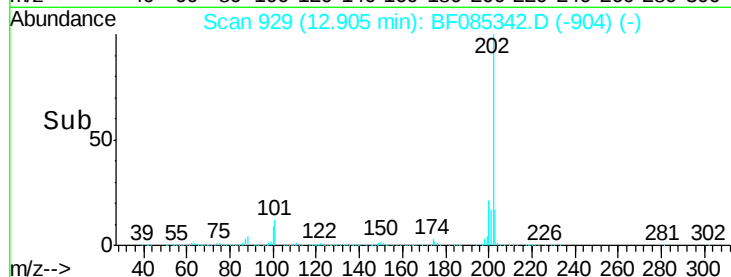
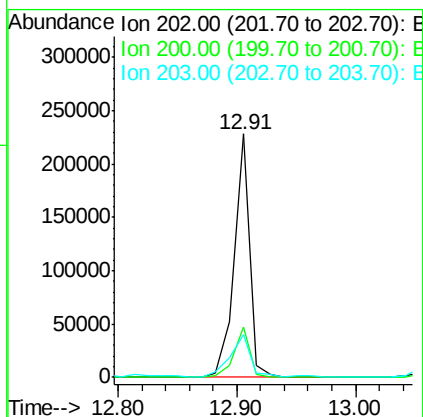
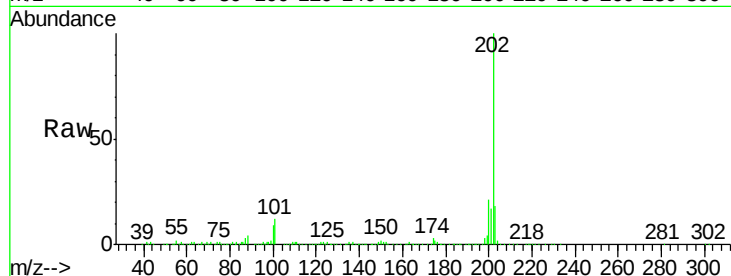
ClientSampleId :

TEC-COMP3

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 203671 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.7 | 18.2  | 27.4   |
| 203       | 17.7 | 14.7  | 22.1   |

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#78

Terphenyl-d14

Concen: 73.89 ng

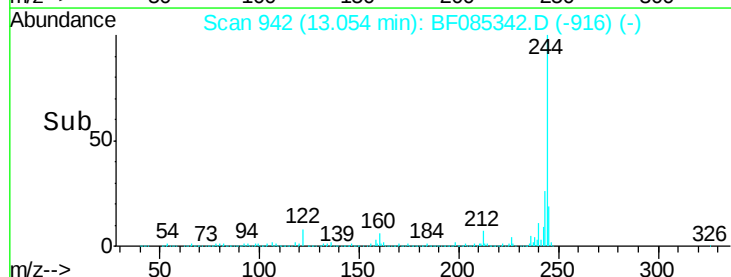
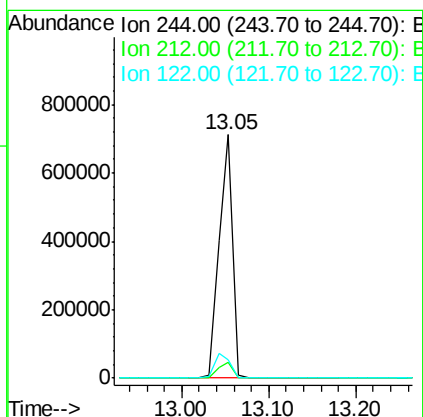
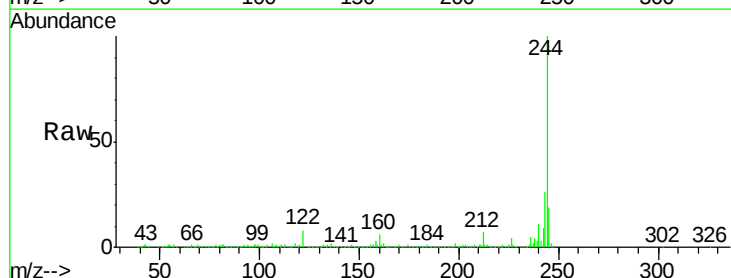
RT: 13.05 min Scan# 942

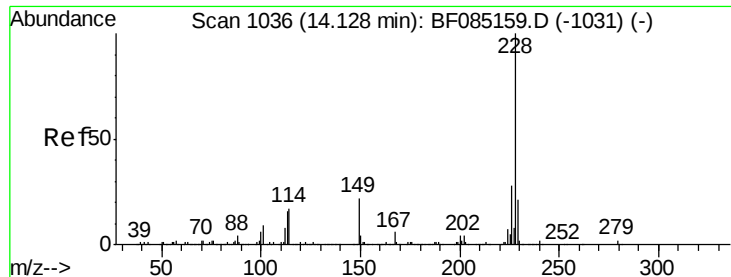
Delta R.T. 0.00 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 244 | Resp: | 778949 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.6 | 6.4   | 9.6    |
| 122       | 7.6 | 11.4  | 17.2   |





#80

Benzo(a)anthracene

Concen: 6.51 ng m

RT: 14.09 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

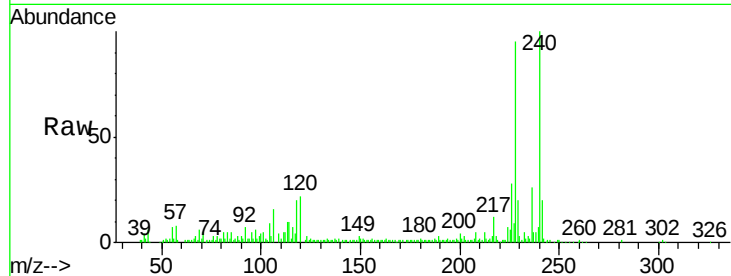
ClientSampleId :

TEC-COMP3

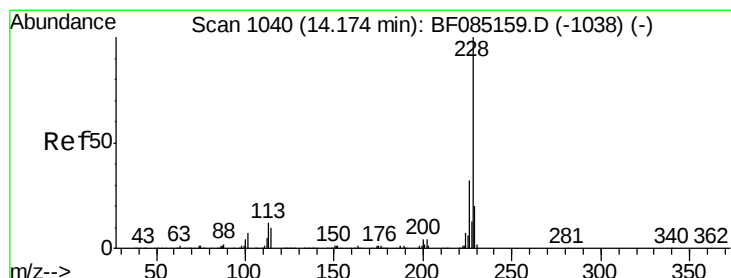
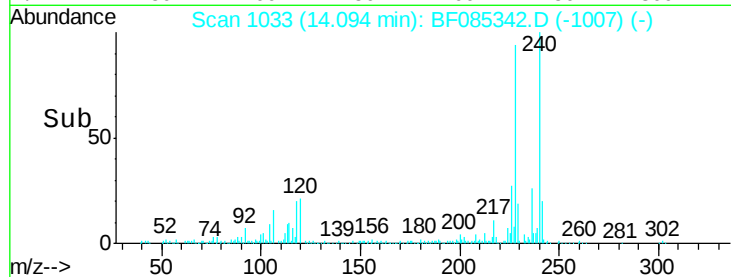
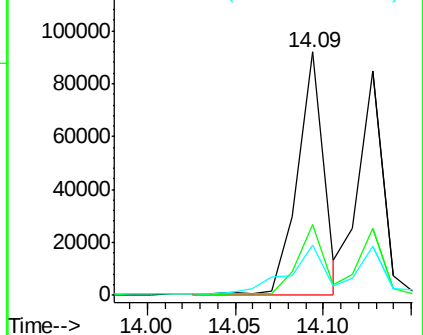
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 95316 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.2  | 22.8  | 34.2  |
| 229       | 20.7  | 16.6  | 24.8  |

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



#82

Chrysene

Concen: 6.13 ng m

RT: 14.13 min Scan# 1036

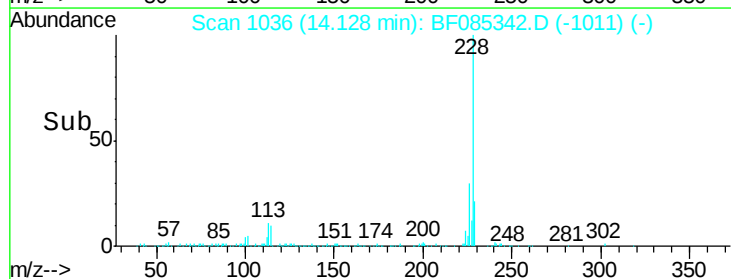
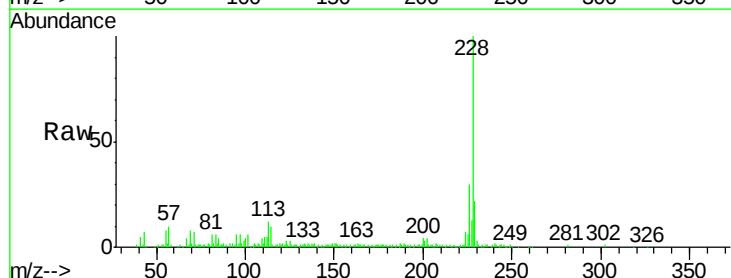
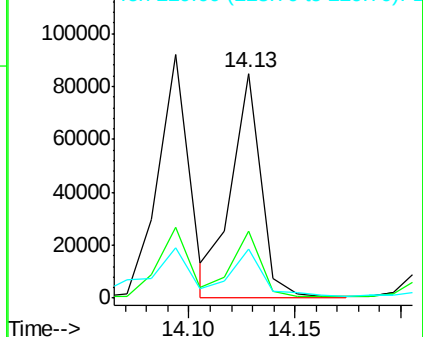
Delta R.T. -0.01 min

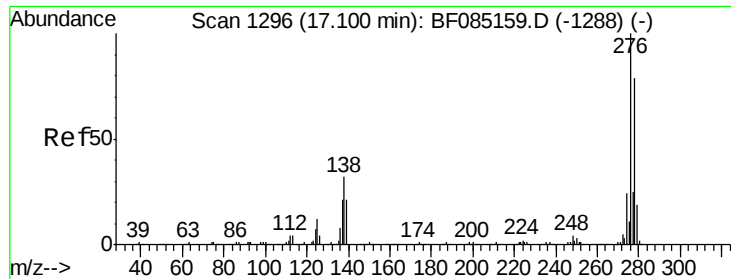
Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 82903 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.0  | 25.2  | 37.8  |
| 229       | 21.5  | 16.0  | 24.0  |

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





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.51 ng

RT: 17.02 min Scan# 1289

Delta R.T. -0.01 min

Lab File: BF085342.D

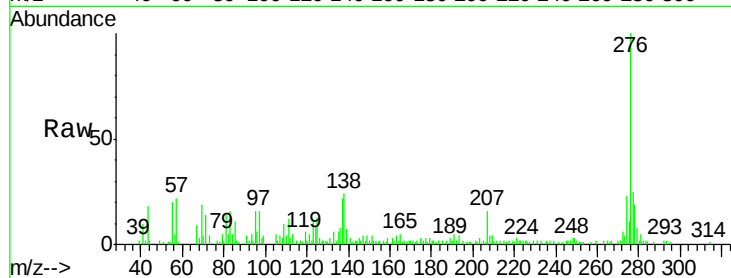
Acq: 10 Mar 2016 19:30

Instrument :

BNA\_F

ClientSampleId :

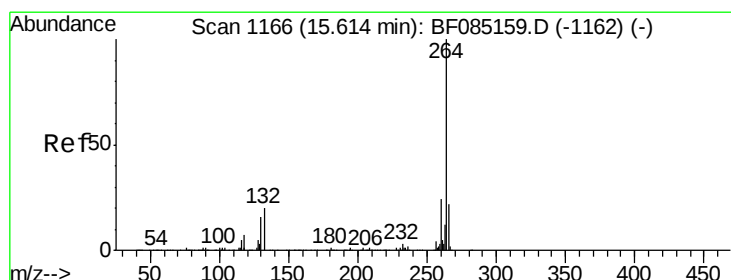
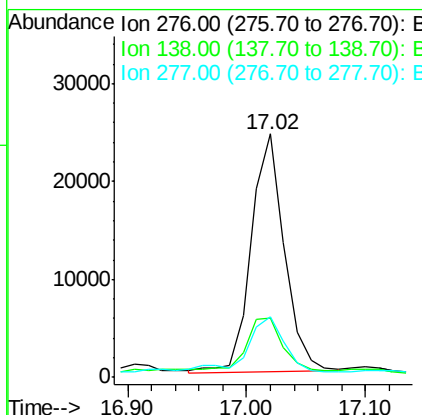
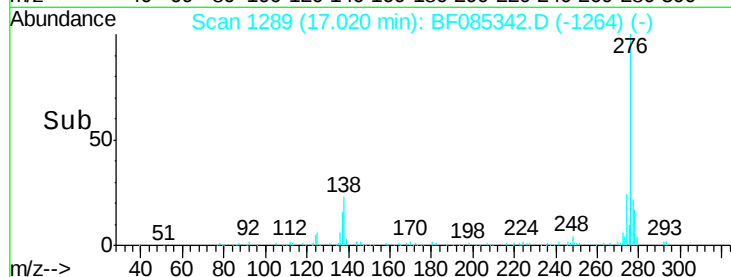
TEC-COMP3



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.0  | 26.4  | 39.6  |
| 277     | 29.2  | 20.2  | 30.2  |

Manual Integrations  
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#86

Perylene-d12

Concen: 20.00 ng

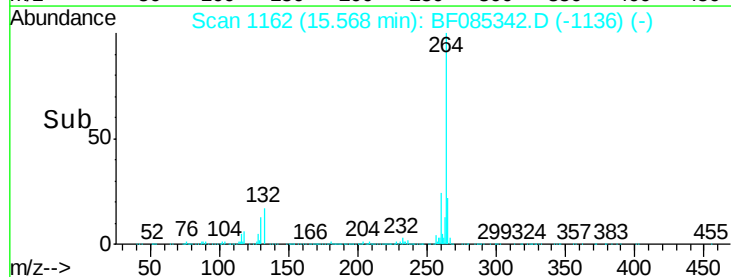
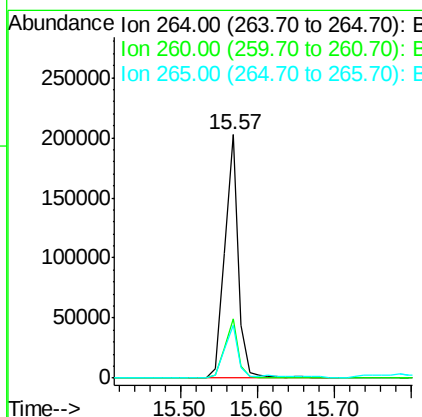
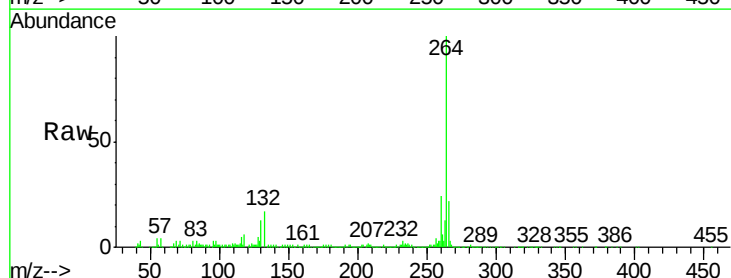
RT: 15.57 min Scan# 1162

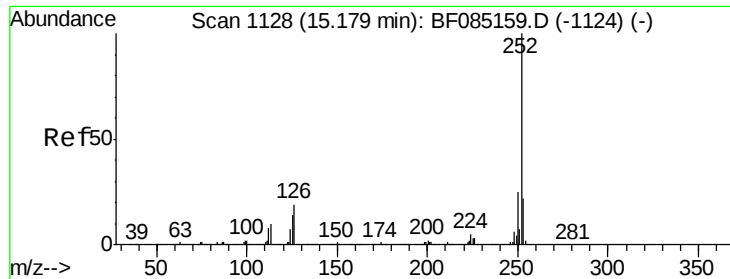
Delta R.T. 0.00 min

Lab File: BF085342.D

Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 21.9  | 17.3  | 25.9  |





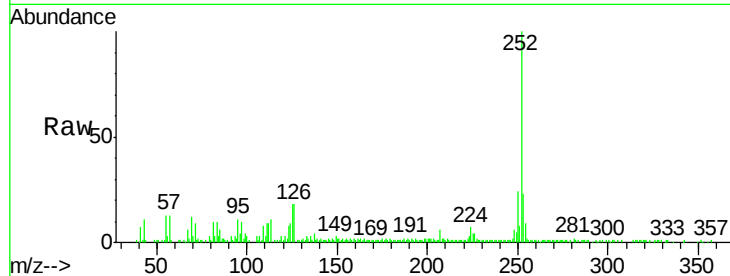
#87  
Benzo(b)fluoranthene  
Concen: 6.87 ng m  
RT: 15.13 min Scan# 1124  
Delta R.T. -0.01 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP3

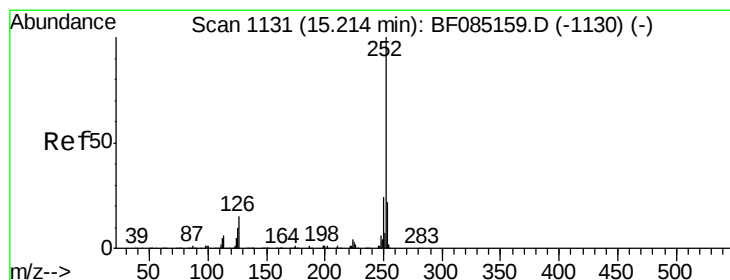
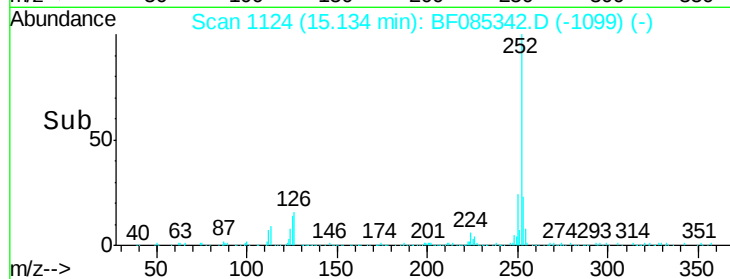
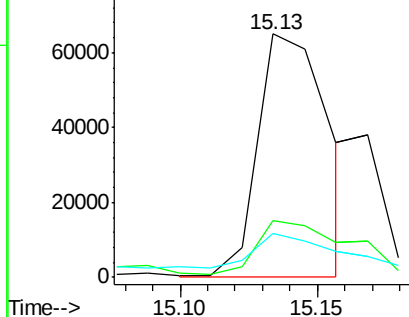
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.8  | 26.6  |
| 125     | 18.3  | 11.3  | 16.9  |

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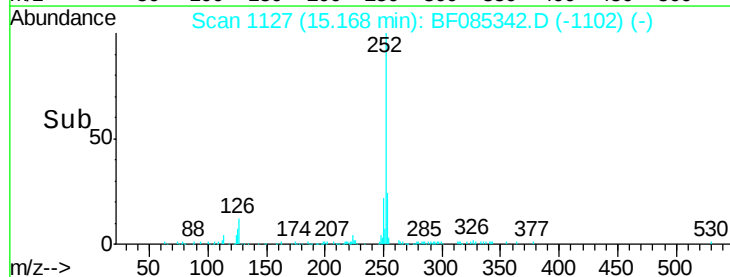
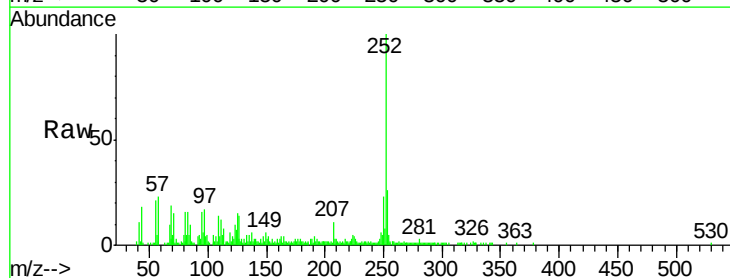
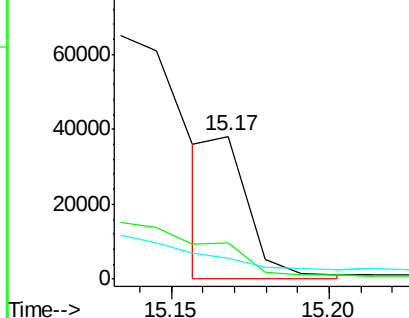
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

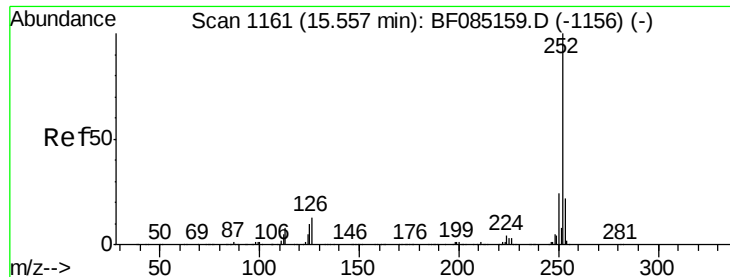


#88  
Benzo(k)fluoranthene  
Concen: 2.30 ng m  
RT: 15.17 min Scan# 1127  
Delta R.T. -0.01 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.8  | 26.6  |
| 125     | 14.8  | 10.4  | 15.6  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





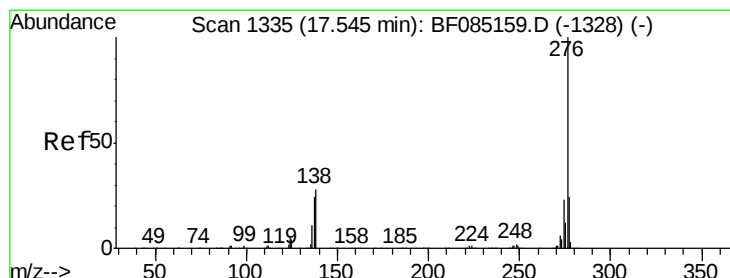
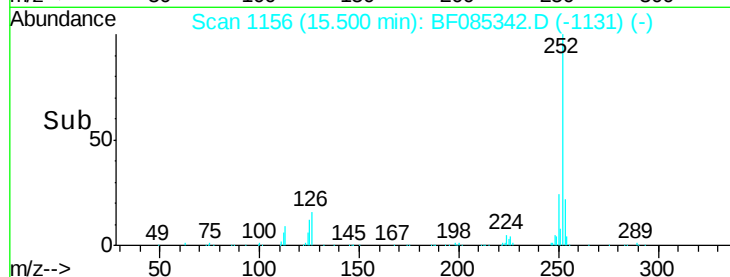
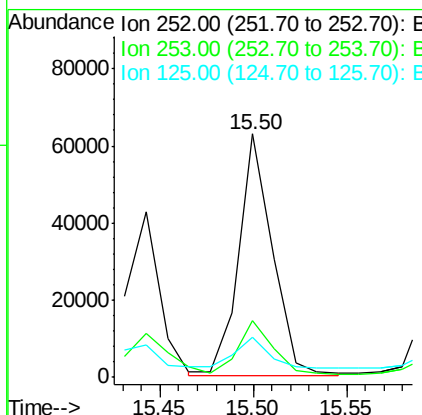
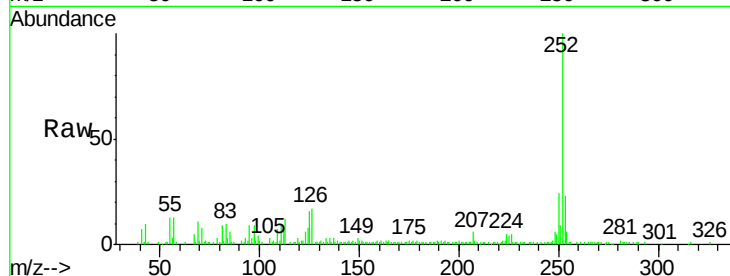
#89  
Benzo(a)pyrene  
Concen: 5.56 ng  
RT: 15.50 min Scan# 1156  
Delta R.T. -0.01 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

Instrument :  
BNA\_F  
ClientSampleId :  
TEC-COMP3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.0  |
| 125     | 16.3  | 8.2   | 12.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 3.78 ng  
RT: 17.45 min Scan# 1327  
Delta R.T. -0.02 min  
Lab File: BF085342.D  
Acq: 10 Mar 2016 19:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.8  | 19.0  | 28.4  |
| 138     | 28.0  | 22.5  | 33.7  |

