

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031816\  
 Data File : BF085610.D  
 Acq On : 20 Mar 2016 10:49  
 Operator : UM/SJ  
 Sample : H1815-12  
 Misc :  
 ALS Vial : 68 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

Manual Integrations  
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Quant Time: Mar 21 12:37:34 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 18 23:31:39 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 141320   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.14  | 136  | 491222   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.90  | 164  | 214886   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.38 | 188  | 380452   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.01 | 240  | 273387   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.44 | 264  | 237102   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 984153   | 116.97 | ng    | 0.01     |
| 7) Phenol-d6                | 6.49  | 99   | 1169824  | 108.41 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 661300   | 78.14  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 239878   | 113.96 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 943955   | 72.13  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.96 | 244  | 648295   | 57.06  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.61  | 163  | 140910   | 8.69   | ng    | # 91     |
| 51) Acenaphthene            | 9.93  | 154  | 33806    | 2.46   | ng    | # 88     |
| 70) Phenanthrene            | 11.41 | 178  | 158725   | 7.91   | ng    | 96       |
| 71) Anthracene              | 11.46 | 178  | 46361m   | 2.20   | ng    |          |
| 74) Fluoranthene            | 12.60 | 202  | 264631   | 12.60  | ng    | 92       |
| 77) Pyrene                  | 12.82 | 202  | 239143   | 12.18  | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.00 | 228  | 97311m   | 6.13   | ng    |          |
| 82) Chrysene                | 14.04 | 228  | 94008m   | 6.16   | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.84 | 276  | 43118m   | 3.38   | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.03 | 252  | 103257m  | 6.67   | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.04 | 252  | 41245m   | 3.24   | ng    |          |
| 89) Benzo(a)pyrene          | 15.37 | 252  | 78579    | 5.99   | ng    | # 89     |
| 91) Benzo(g,h,i)perylene    | 17.26 | 276  | 37080    | 3.50   | ng    | 96       |

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

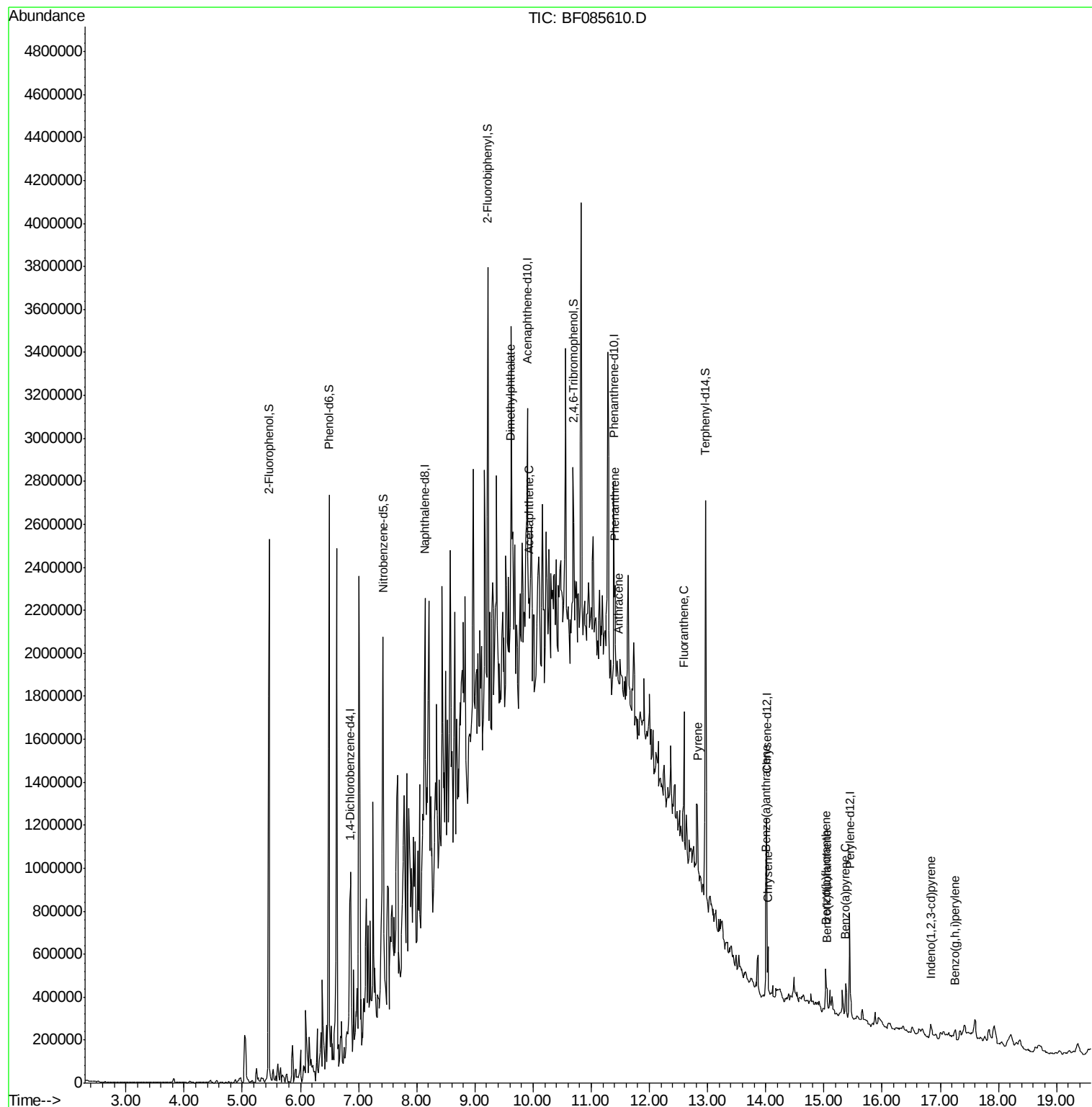
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031816\  
Data File : BF085610.D  
Acq On : 20 Mar 2016 10:49  
Operator : UM/SJ  
Sample : H1815-12  
Misc :  
ALS Vial : 68 Sample Multiplier: 1

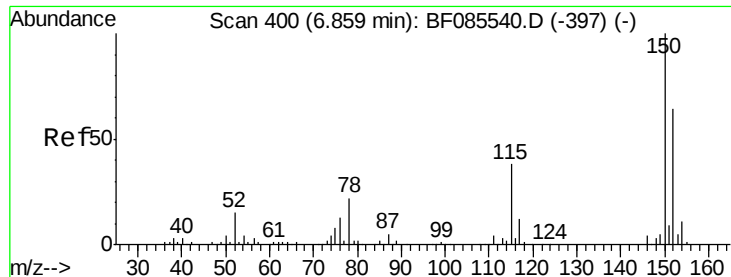
Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

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Quant Time: Mar 21 12:37:34 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 18 23:31:39 2016  
Response via : Initial Calibration





#1

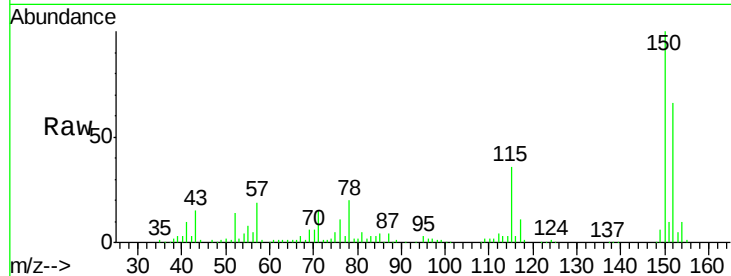
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.86 min Scan# 400  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

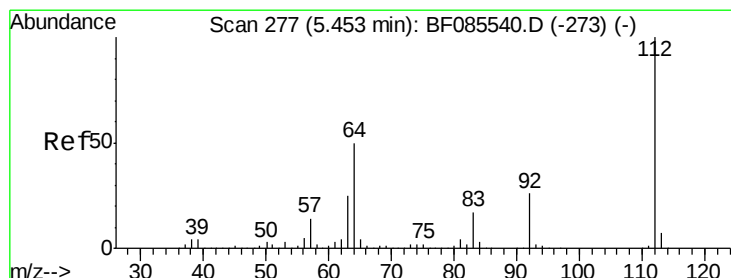
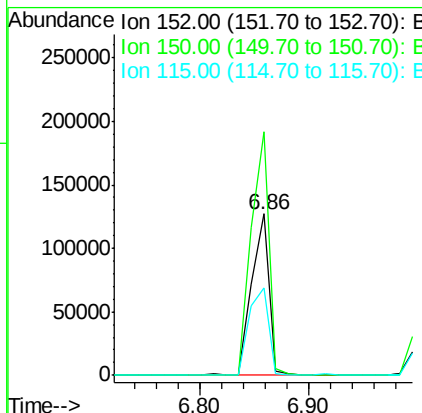
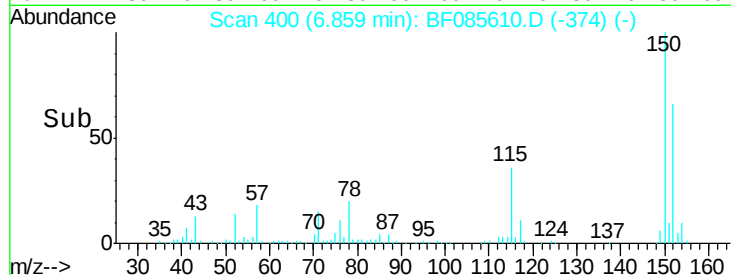
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 141320 |       |       |
| 150     | 150.8 | 124.2  | 186.2 |       |
| 115     | 54.1  | 47.0   | 70.6  |       |

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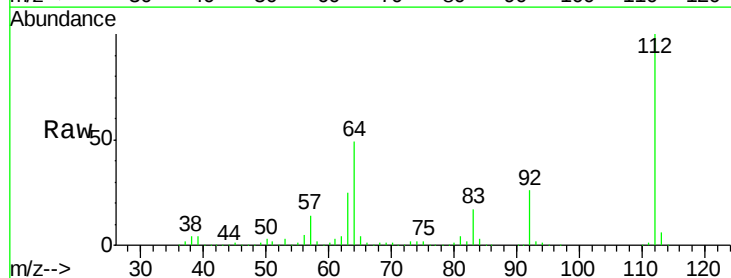
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



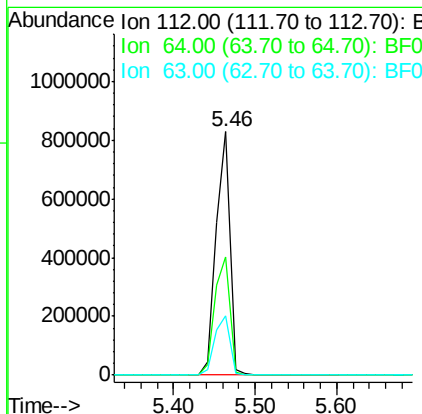
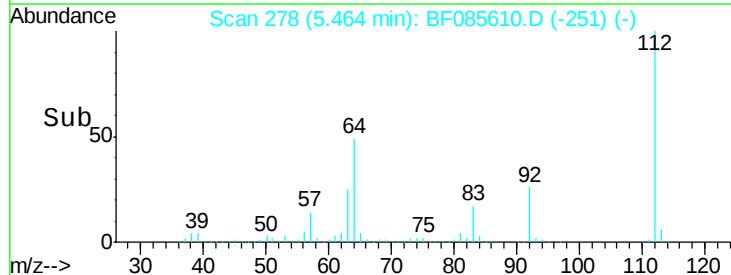
#5

2-Fluorophenol  
 Concen: 116.97 ng  
 RT: 5.46 min Scan# 278  
 Delta R.T. 0.01 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 984153 |       |       |
| 64      | 48.7  | 39.9   | 59.9  |       |
| 63      | 24.6  | 20.2   | 30.2  |       |



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





#7

Phenol-d6

Concen: 108.41 ng

RT: 6.49 min Scan# 368

Delta R.T. 0.00 min

Lab File: BF085610.D

Acq: 20 Mar 2016 10:49

Instrument :

BNA\_F

ClientSampleId :

SB-01-COMP

Tgt Ion: 99 Resp: 1169824

Ion Ratio Lower Upper

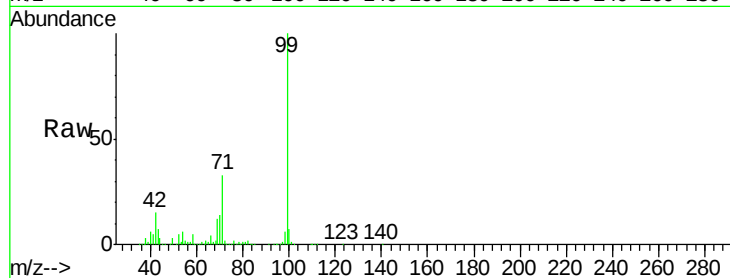
99 100

42 14.6 11.1 16.7

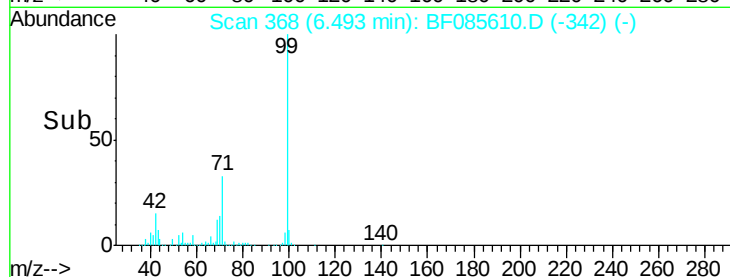
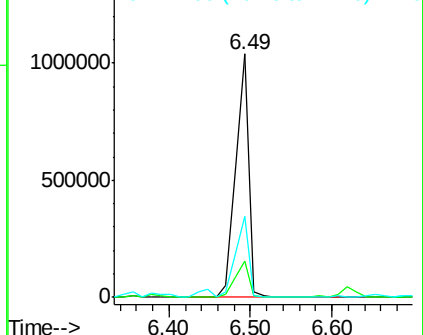
71 33.1 24.9 37.3

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Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 512

Delta R.T. 0.00 min

Lab File: BF085610.D

Acq: 20 Mar 2016 10:49

Tgt Ion: 136 Resp: 491222

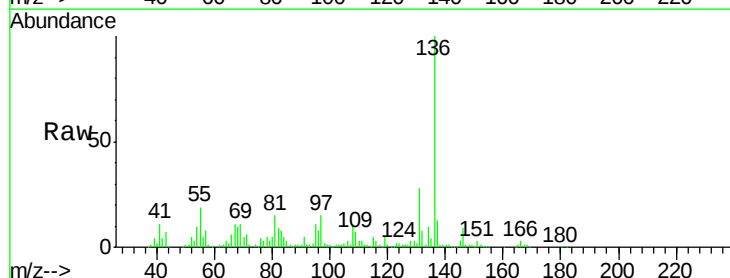
Ion Ratio Lower Upper

136 100

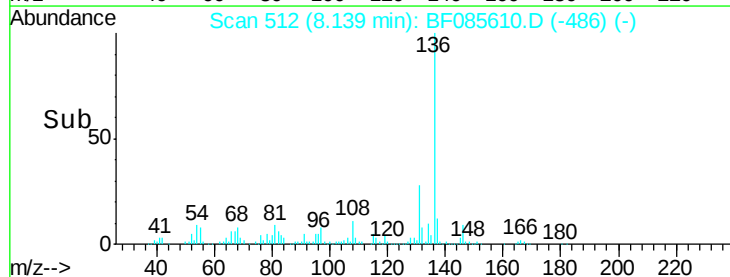
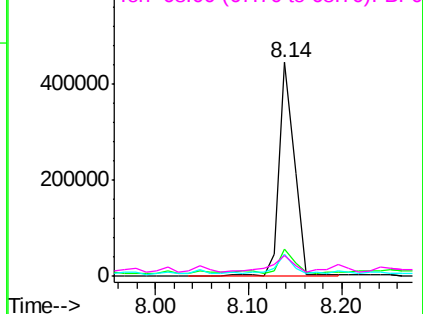
137 12.7 9.1 13.7

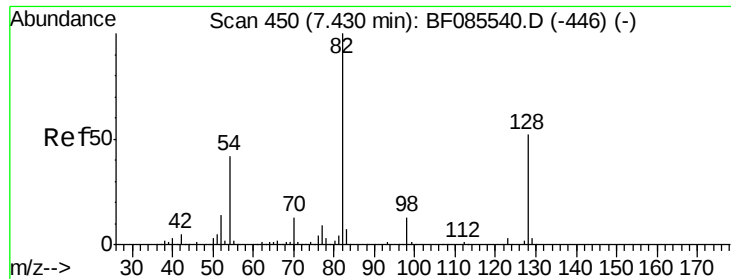
54 9.9 7.4 11.0

68 9.9 5.8 8.8#



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0





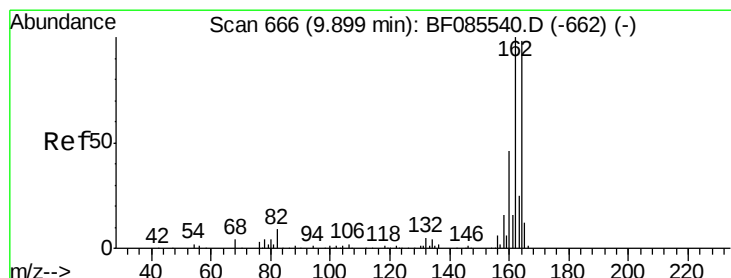
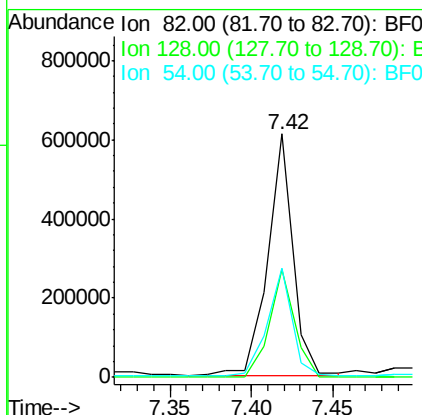
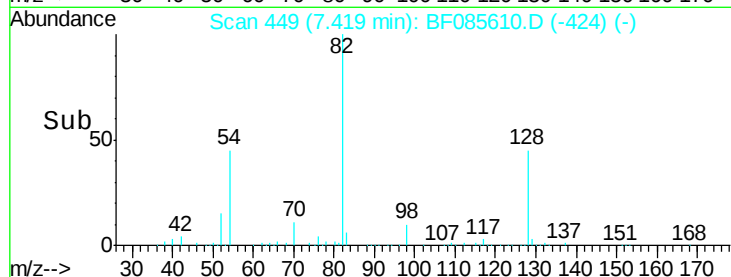
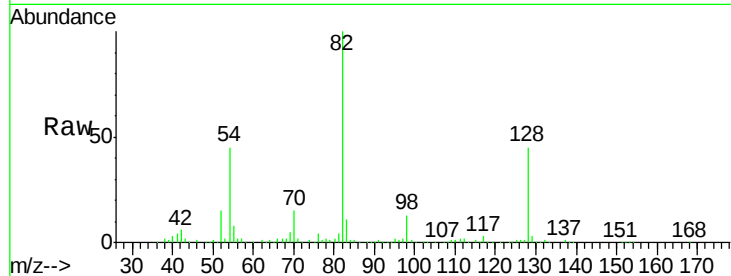
#23  
 Nitrobenzene-d5  
 Concen: 78.14 ng  
 RT: 7.42 min Scan# 449  
 Delta R.T. -0.01 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 661300 |       |       |
| 128     | 44.5  | 41.8   | 62.8  |       |
| 54      | 44.9  | 33.4   | 50.0  |       |

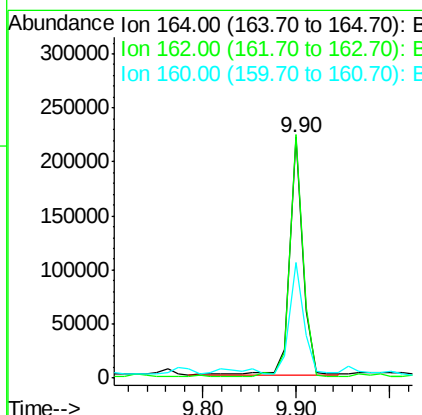
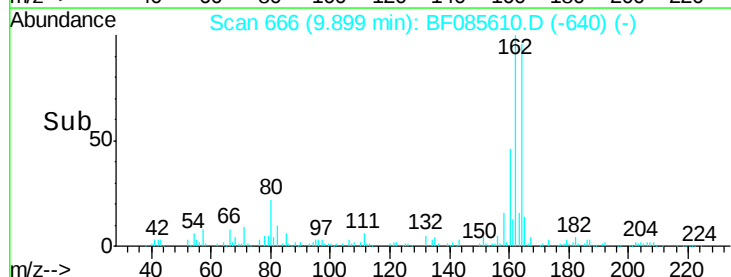
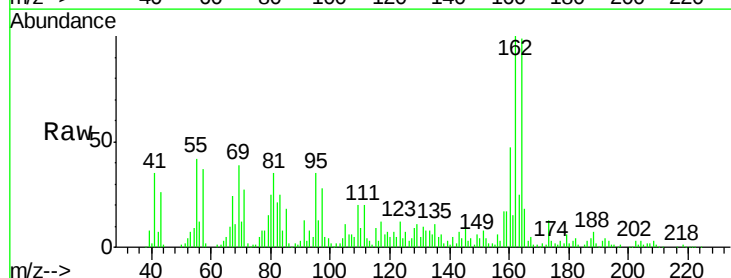
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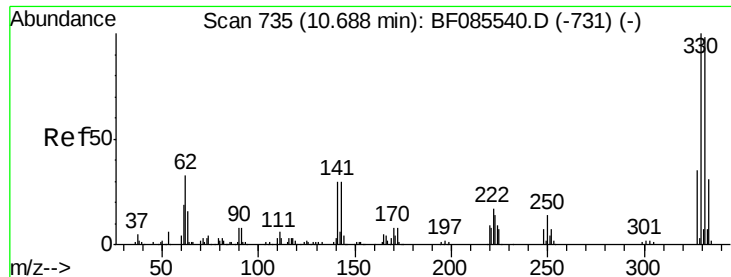
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.90 min Scan# 666  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 214886 |       |       |
| 162     | 101.1 | 82.1   | 123.1 |       |
| 160     | 48.0  | 37.4   | 56.2  |       |





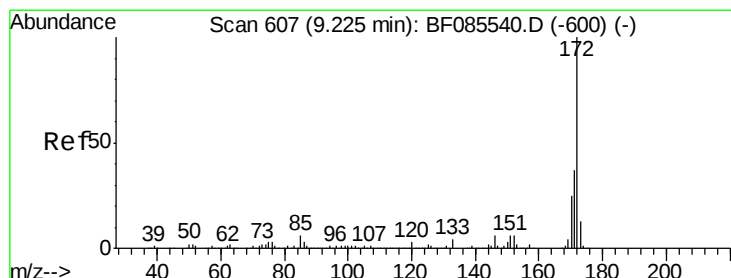
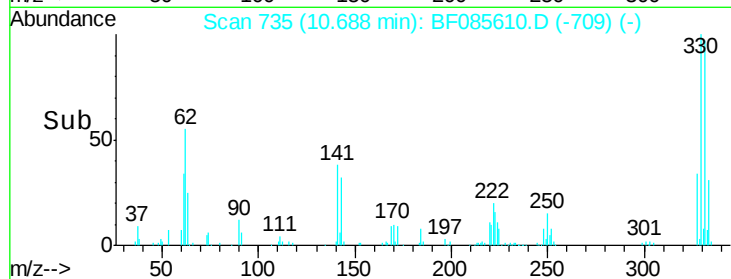
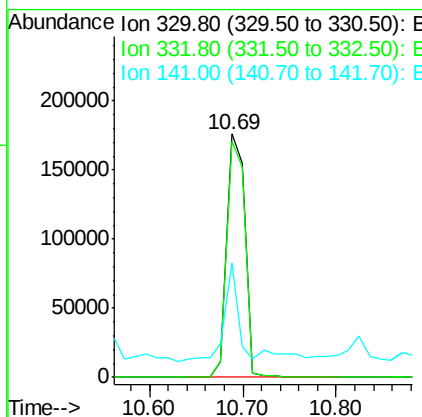
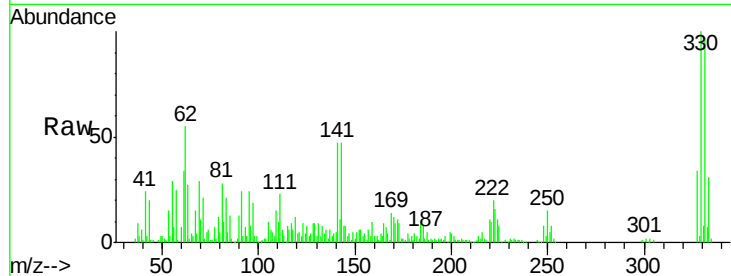
#41  
 2,4,6-Tribromophenol  
 Concen: 113.96 ng  
 RT: 10.69 min Scan# 735  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 239878 |       |       |
| 332     | 97.4  | 78.2   | 117.2 |       |
| 141     | 29.3  | 31.5   | 47.3# |       |

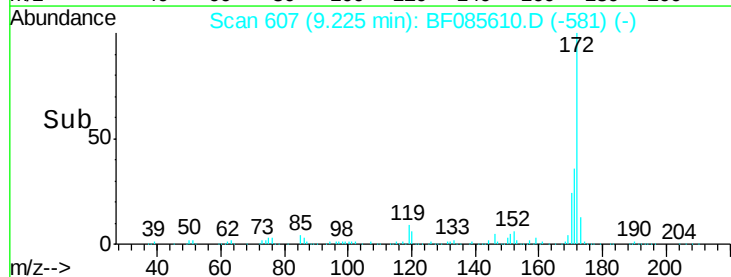
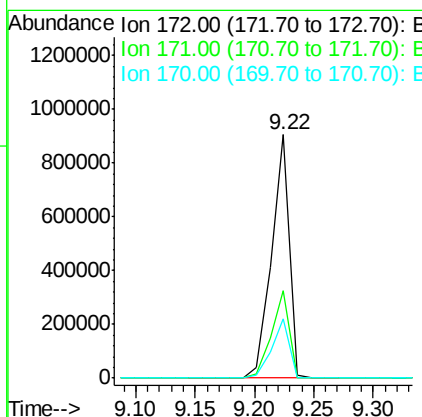
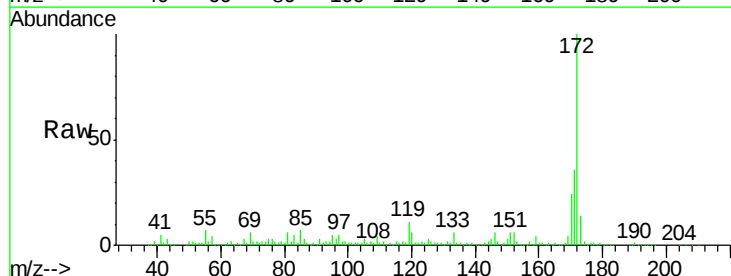
Manual Integrations  
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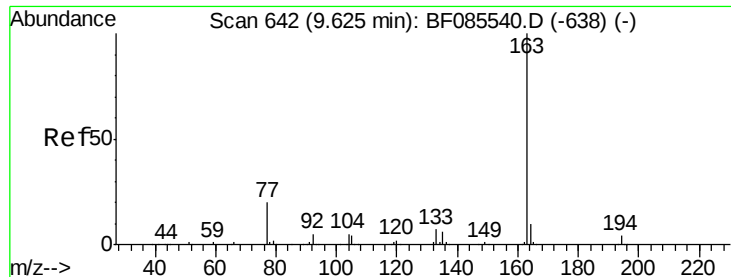
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#44  
 2-Fluorobiphenyl  
 Concen: 72.13 ng  
 RT: 9.22 min Scan# 607  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 943955 |       |       |
| 171     | 36.0  | 29.4   | 44.2  |       |
| 170     | 24.2  | 19.8   | 29.6  |       |





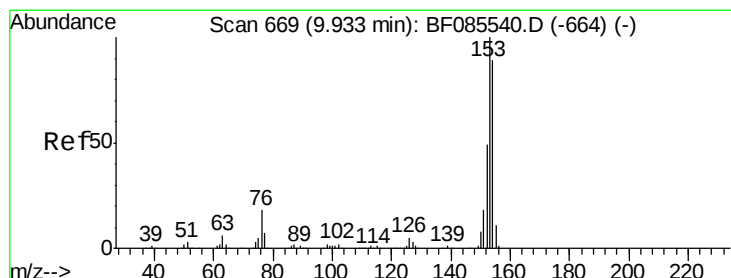
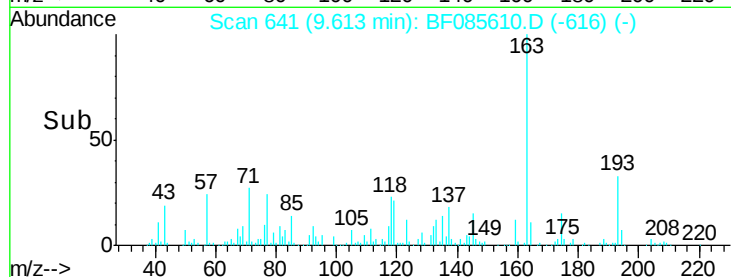
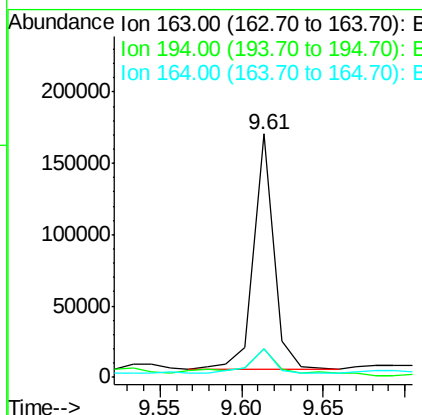
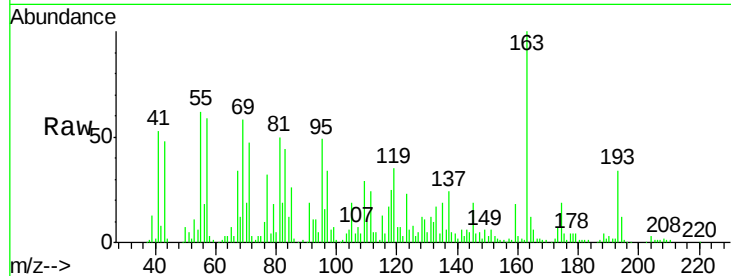
#49  
Dimethylphthalate  
Concen: 8.69 ng  
RT: 9.61 min Scan# 641  
Delta R.T. -0.01 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 140910 |       |       |
| 194     | 11.6  | 2.9    | 4.3#  |       |
| 164     | 11.8  | 8.3    | 12.5  |       |

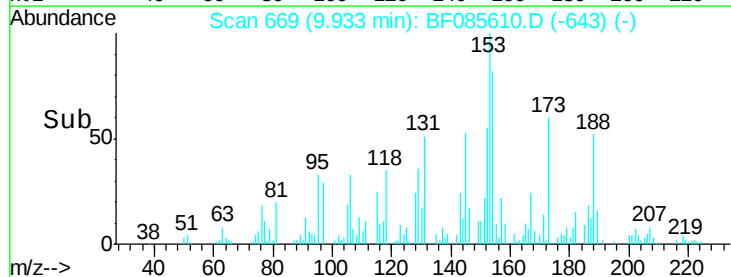
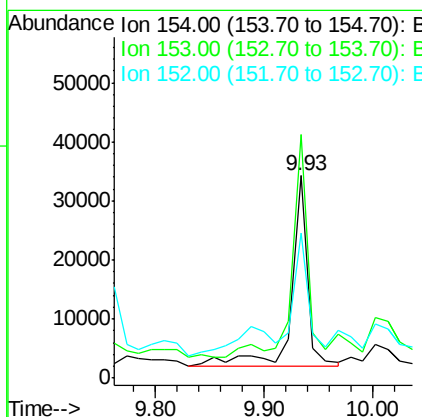
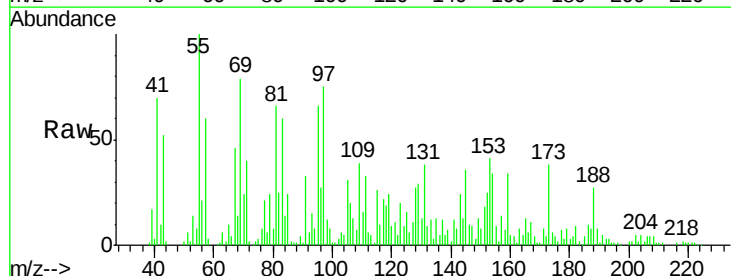
Manual Integrations  
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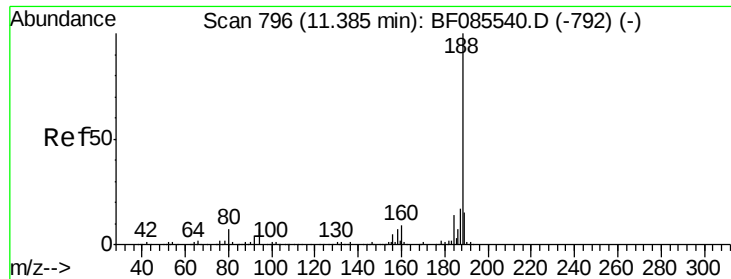
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#51  
Acenaphthene  
Concen: 2.46 ng  
RT: 9.93 min Scan# 669  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 33806 |       |       |
| 153     | 120.4 | 90.1  | 135.1 |       |
| 152     | 71.6  | 44.2  | 66.2# |       |





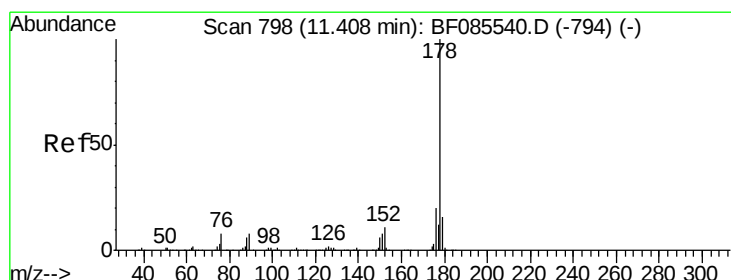
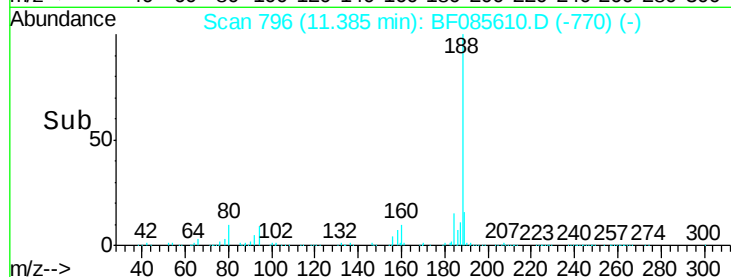
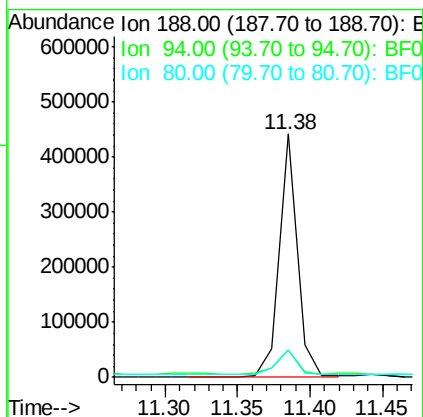
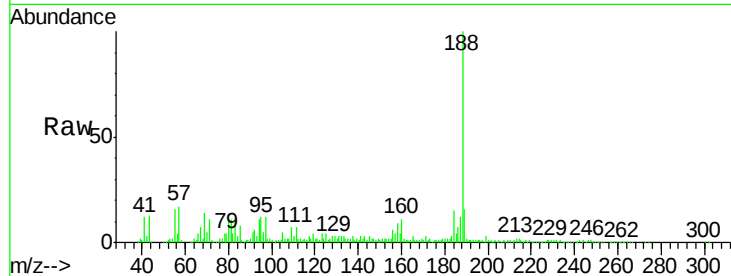
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 796  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 11.0  | 5.4        | 8.0#       |
| 80      | 11.1  | 5.5        | 8.3#       |

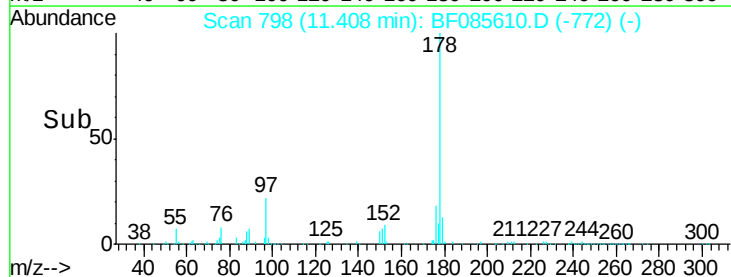
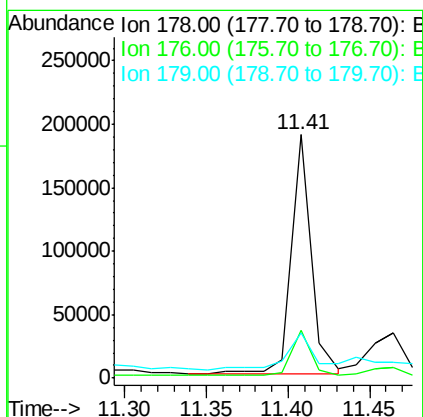
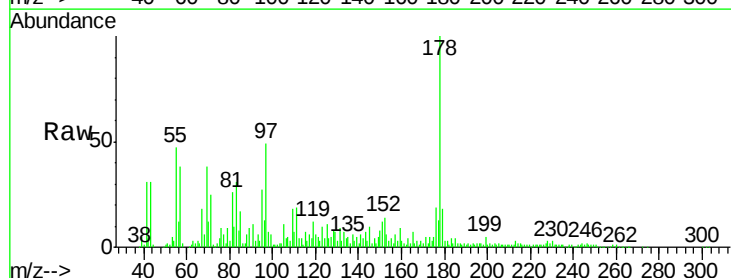
Manual Integrations  
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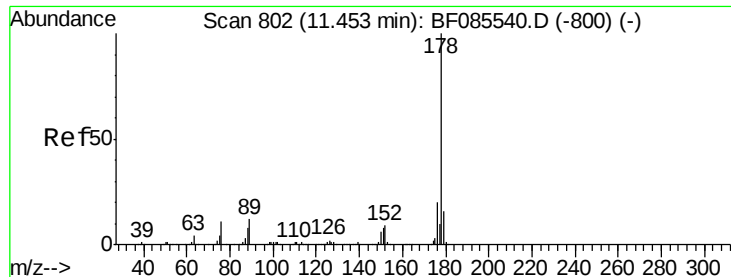
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#70  
Phenanthrene  
Concen: 7.91 ng  
RT: 11.41 min Scan# 798  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 19.4  | 16.3       | 24.5       |
| 179     | 18.5  | 12.6       | 18.8       |





#71

Anthracene

Concen: 2.20 ng m

RT: 11.46 min Scan# 803

Delta R.T. 0.01 min

Lab File: BF085610.D

Acq: 20 Mar 2016 10:49

Instrument :

BNA\_F

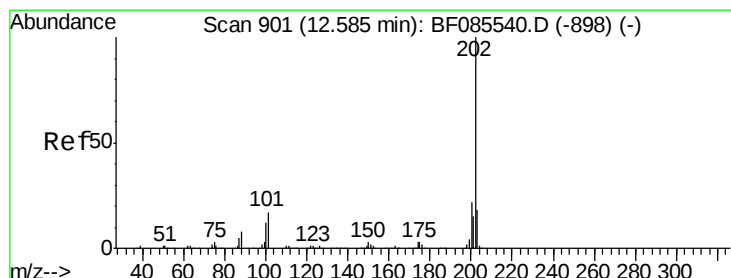
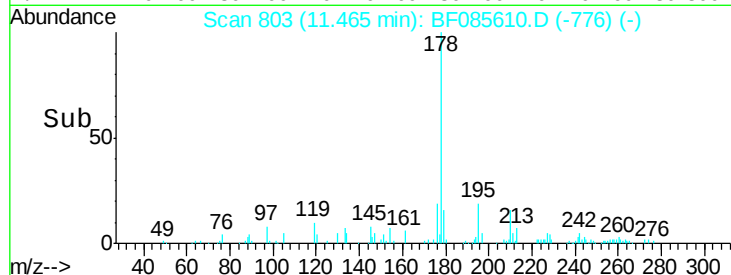
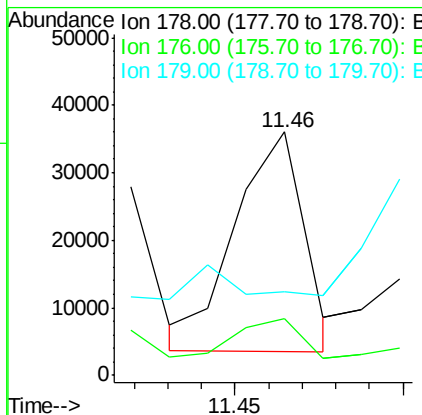
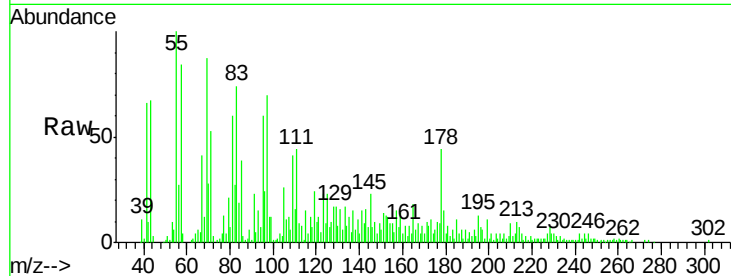
ClientSampleId :

SB-01-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 46361 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 23.1  | 15.9  | 23.9  |
| 179       | 34.1  | 13.0  | 19.4# |

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#74

Fluoranthene

Concen: 12.60 ng

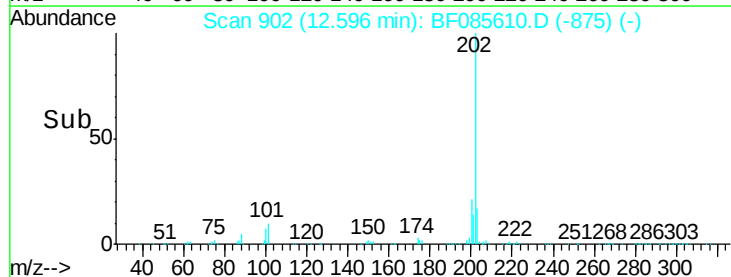
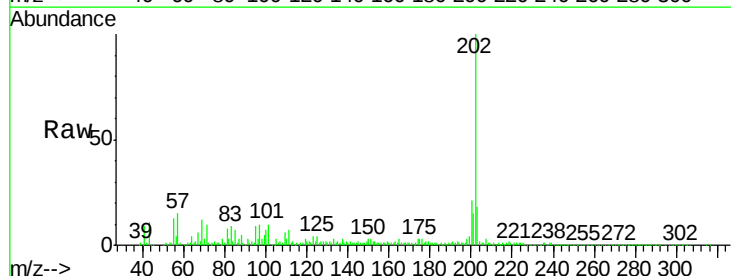
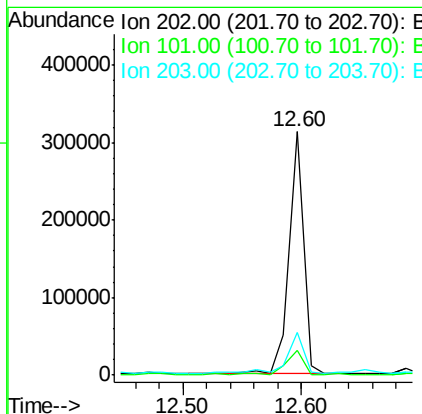
RT: 12.60 min Scan# 902

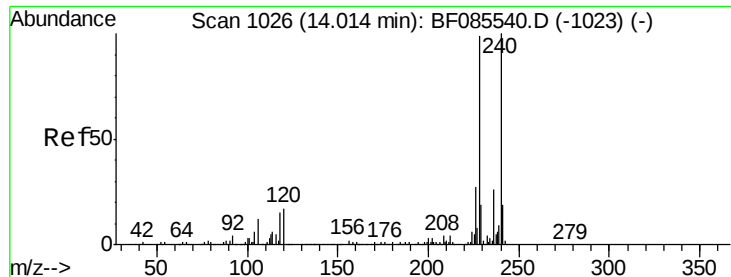
Delta R.T. 0.01 min

Lab File: BF085610.D

Acq: 20 Mar 2016 10:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 264631 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.0  | 0.0   | 36.6   |
| 203       | 17.7  | 0.0   | 38.1   |





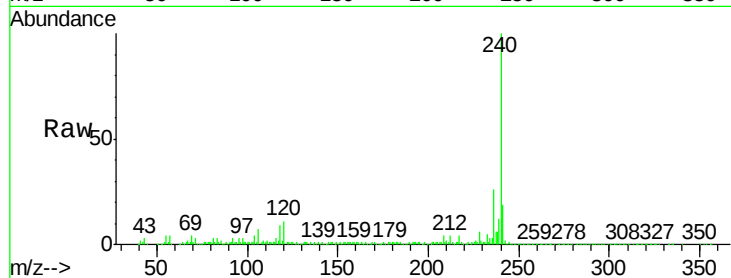
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.01 min Scan# 1026  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

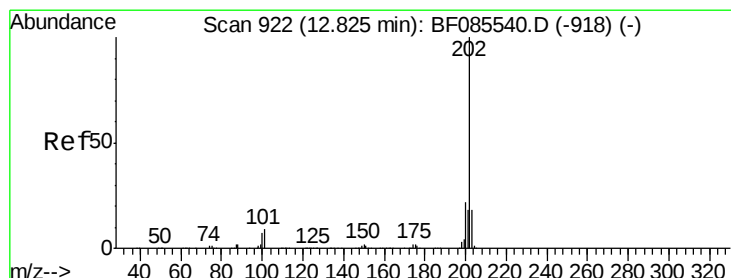
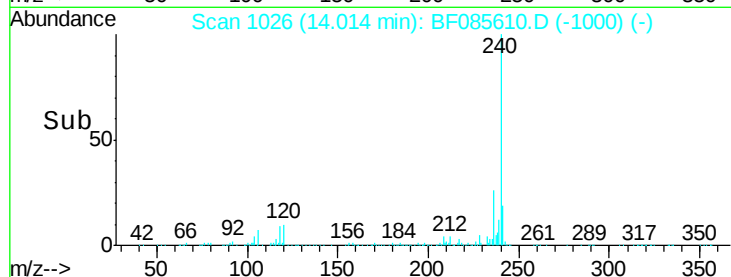
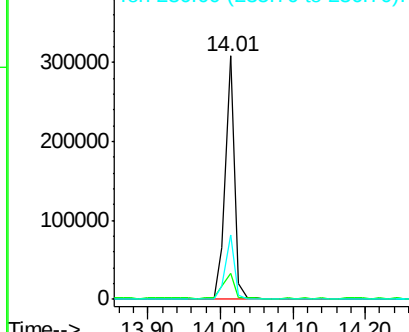
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 273387 |       |       |
| 120     | 10.9  | 13.8   | 20.8# |       |
| 236     | 26.5  | 20.6   | 30.8  |       |

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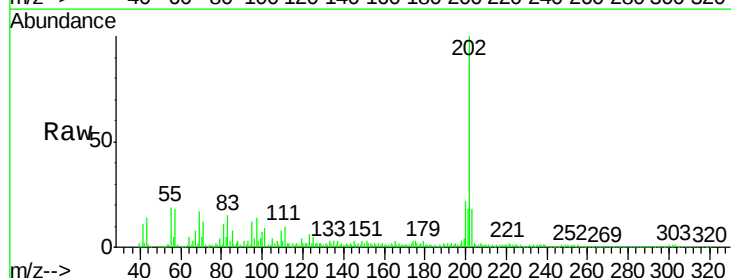


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

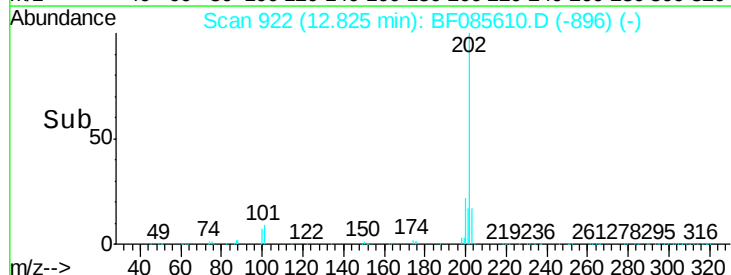
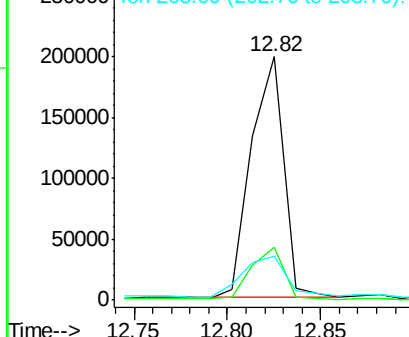


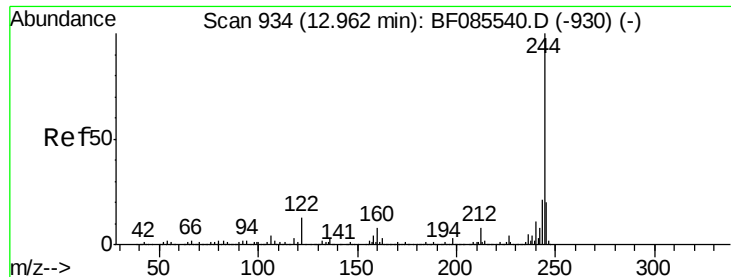
#77  
Pyrene  
Concen: 12.18 ng  
RT: 12.82 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 239143 |       |       |
| 200     | 21.8  | 17.6   | 26.4  |       |
| 203     | 18.2  | 14.0   | 21.0  |       |



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





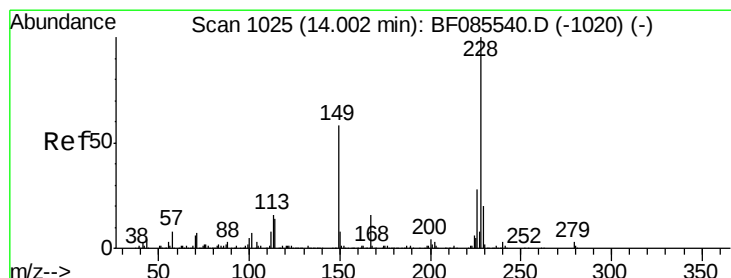
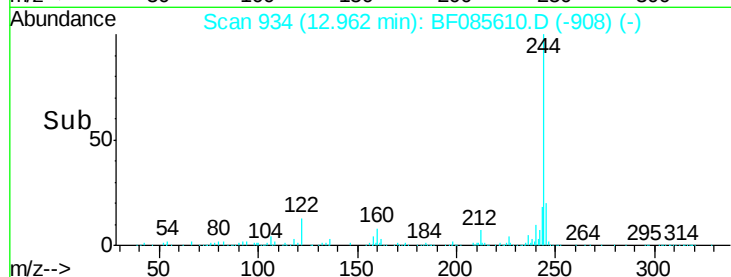
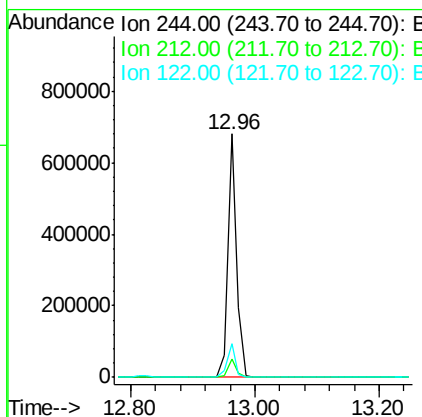
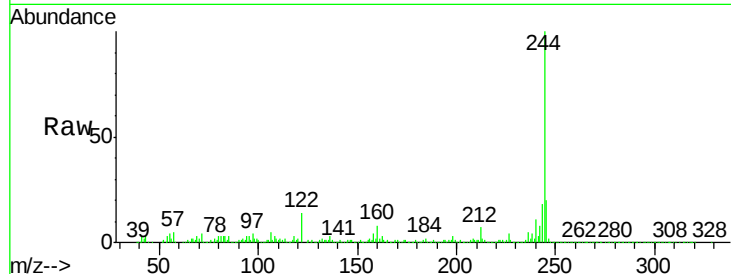
#78  
 Terphenyl-d14  
 Concen: 57.06 ng  
 RT: 12.96 min Scan# 934  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 648295 |       |       |
| 212     | 7.5   | 6.1    | 9.1   |       |
| 122     | 13.7  | 10.2   | 15.4  |       |

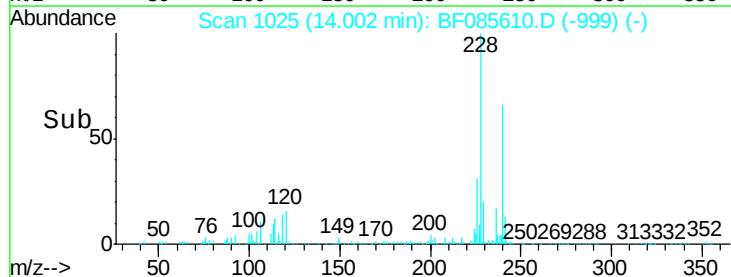
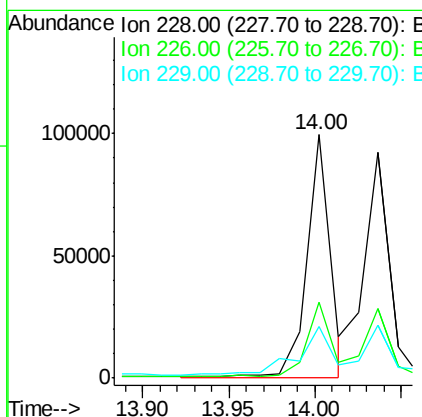
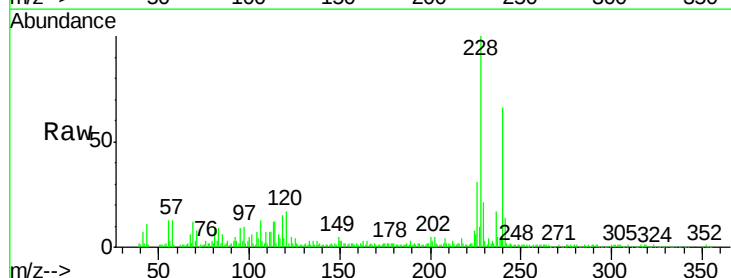
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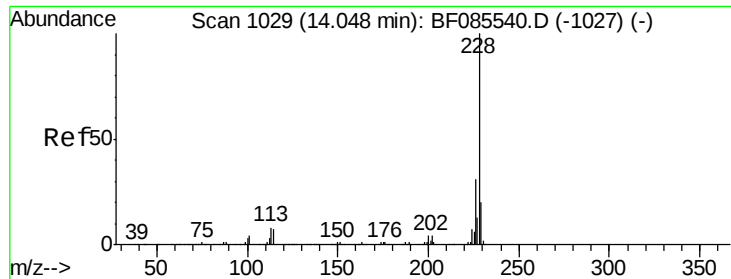
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#80  
 Benzo(a)anthracene  
 Concen: 6.13 ng m  
 RT: 14.00 min Scan# 1025  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 97311 |       |       |
| 226     | 31.3  | 22.1  | 33.1  |       |
| 229     | 21.2  | 16.2  | 24.4  |       |





#82

Chrysene

Concen: 6.16 ng m

RT: 14.04 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF085610.D

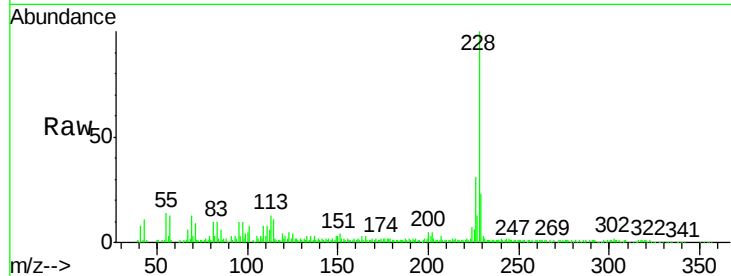
Acq: 20 Mar 2016 10:49

Instrument :

BNA\_F

ClientSampled :

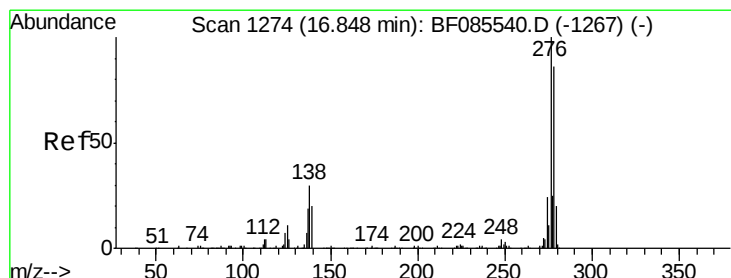
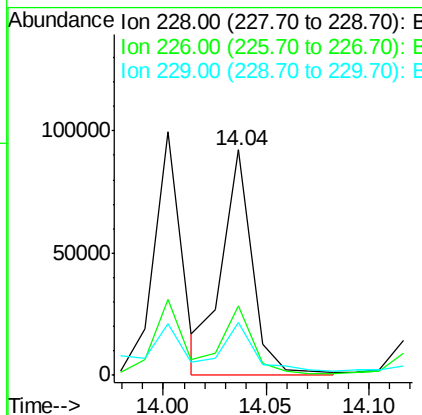
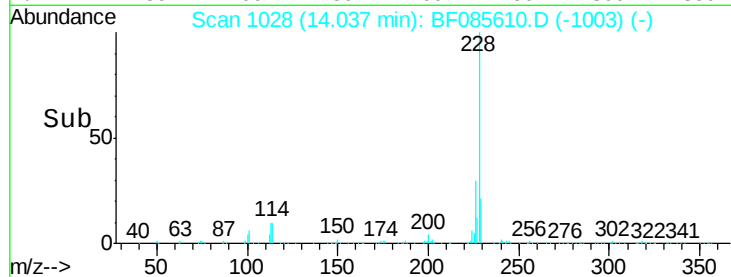
SB-01-COMP



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 94008 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.1  | 25.0  | 37.6  |
| 229       | 23.4  | 15.7  | 23.5  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.38 ng m

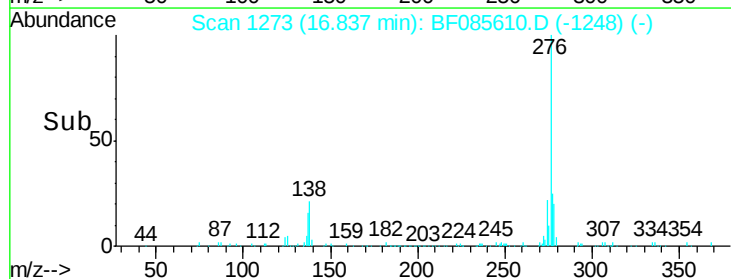
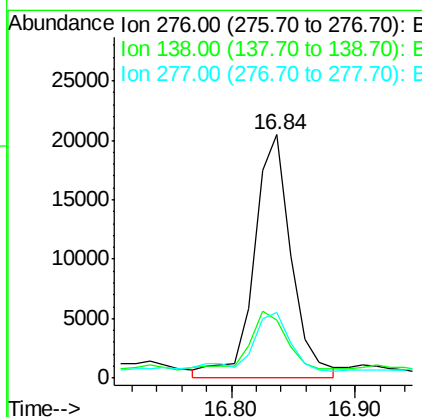
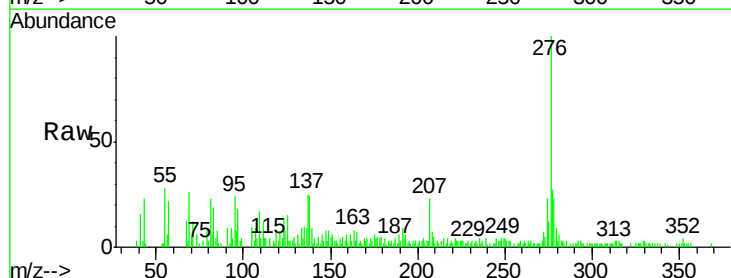
RT: 16.84 min Scan# 1273

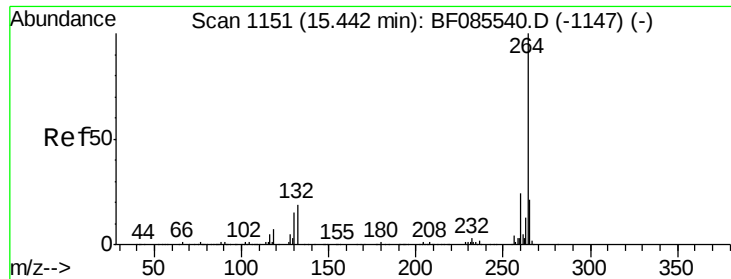
Delta R.T. -0.01 min

Lab File: BF085610.D

Acq: 20 Mar 2016 10:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 43118 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 6.2   | 24.2  | 36.4# |
| 277       | 4.6   | 20.0  | 30.0# |





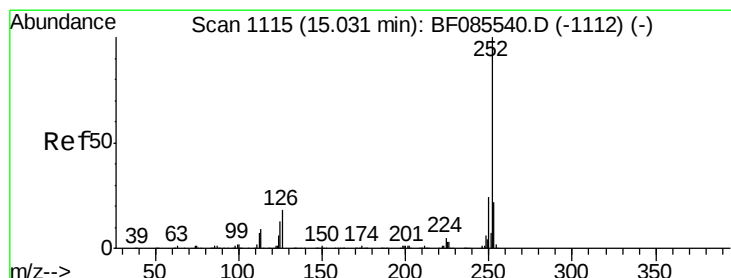
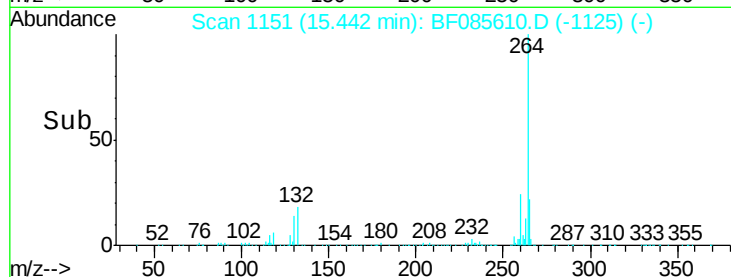
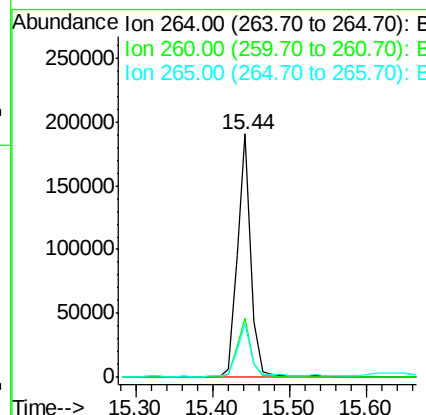
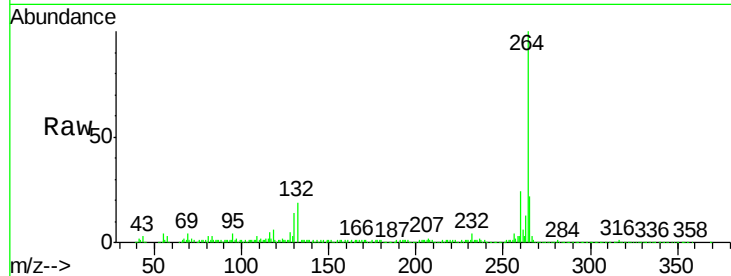
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.44 min Scan# 1151  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.4  | 29.2  |
| 265     | 22.2  | 17.2  | 25.8  |

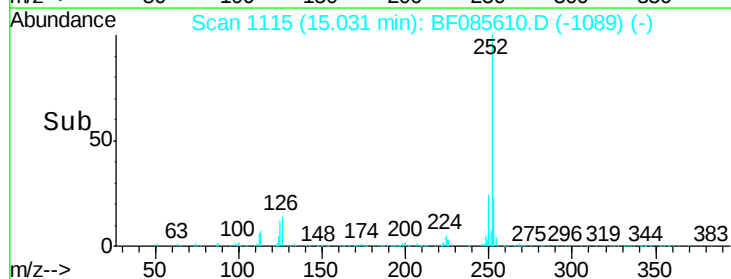
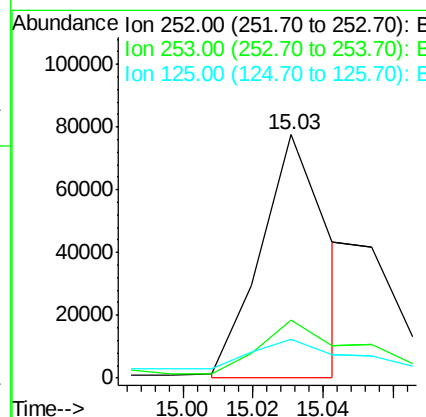
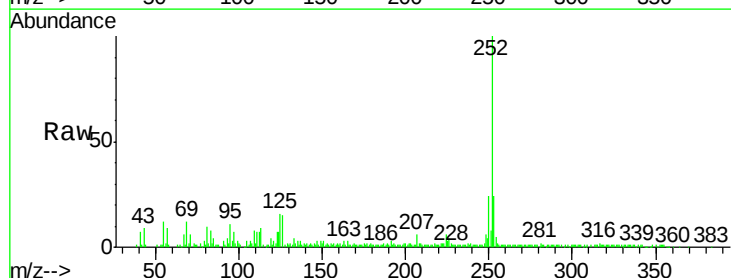
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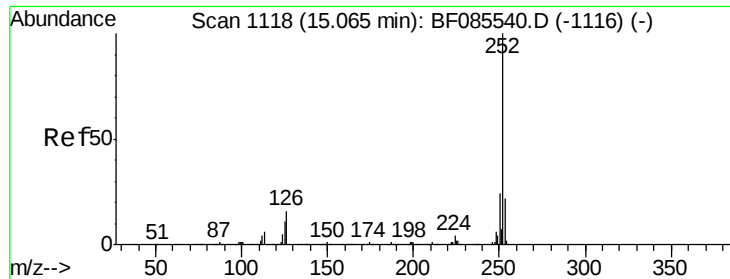
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#87  
Benzo(b)fluoranthene  
Concen: 6.67 ng m  
RT: 15.03 min Scan# 1115  
Delta R.T. 0.00 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.6  | 26.4  |
| 125     | 15.8  | 10.3  | 15.5# |





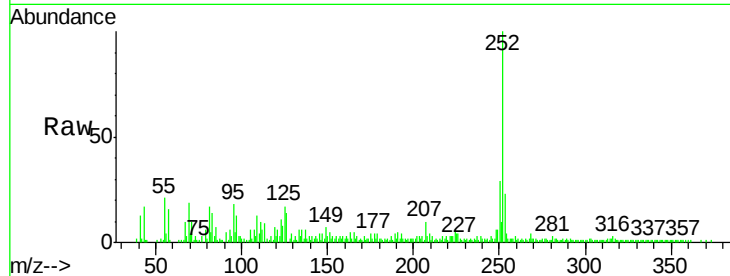
#88  
Benzo(k)fluoranthene  
Concen: 3.24 ng m  
RT: 15.04 min Scan# 1116  
Delta R.T. -0.02 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-01-COMP

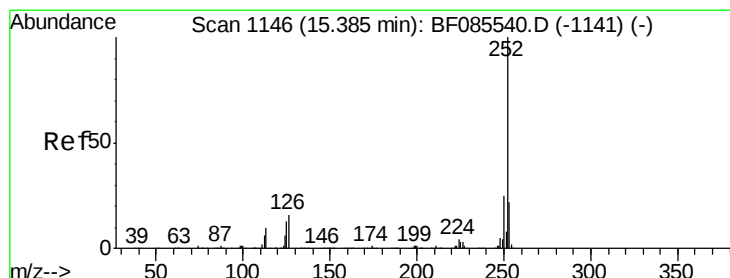
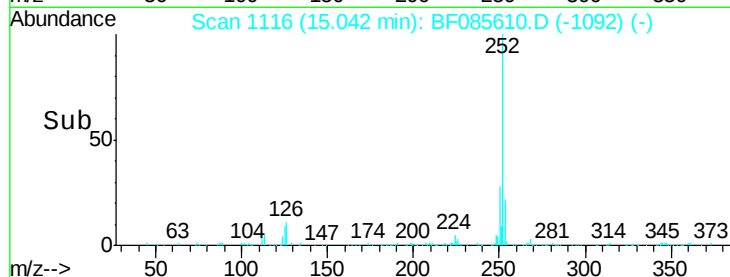
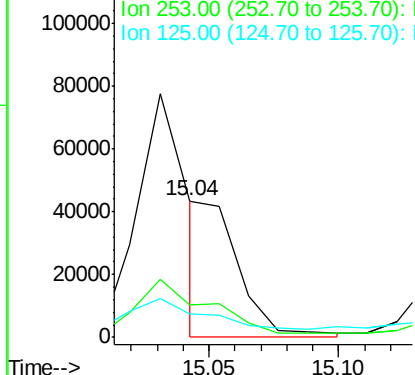
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 17.4  | 7.7   | 11.5# |

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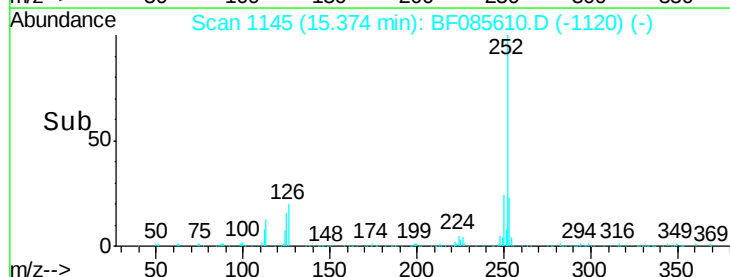
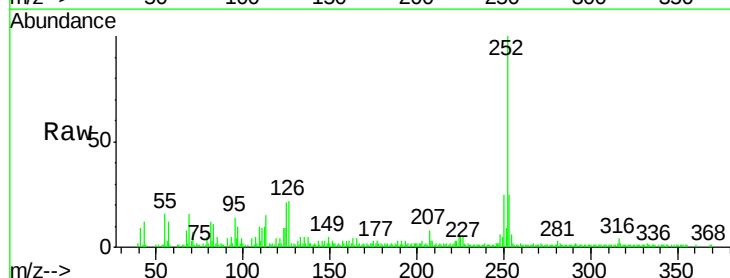
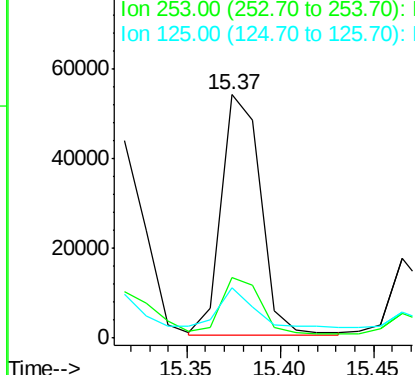
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

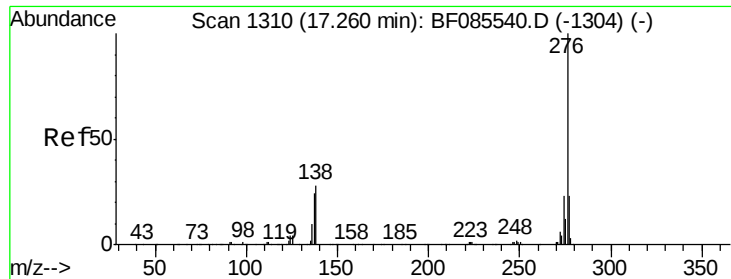


#89  
Benzo(a)pyrene  
Concen: 5.99 ng  
RT: 15.37 min Scan# 1145  
Delta R.T. -0.01 min  
Lab File: BF085610.D  
Acq: 20 Mar 2016 10:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.4  | 26.0  |
| 125     | 20.7  | 10.3  | 15.5# |

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





#91  
 Benzo(g,h,i)perylene  
 Concen: 3.50 ng  
 RT: 17.26 min Scan# 1310  
 Delta R.T. 0.00 min  
 Lab File: BF085610.D  
 Acq: 20 Mar 2016 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-01-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.7  | 18.8  | 28.2  |
| 138     | 25.9  | 22.6  | 34.0  |

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