

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
 Data File : BF098221.D  
 Acq On : 1 Sep 2017 12:46  
 Operator : SJ/JU  
 Sample : I4987-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

Manual Integrations  
 APPROVED

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 9/5/2017 5:21:58 PM

Quant Time: Sep 01 16:26:40 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 01 16:25:25 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 112435   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 443992   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.75  | 164  | 188908   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.23 | 188  | 308760   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.87 | 240  | 211187   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.28 | 264  | 202934   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 892645   | 120.76 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 1218470  | 121.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 746416   | 91.33  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.54 | 330  | 192850   | 117.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 900294   | 70.02  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 550463   | 54.35  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.38  | 94   | 33325    | 2.837  | ng    | 89       |
| 49) Dimethylphthalate          | 9.47  | 163  | 233027   | 16.875 | ng    | 98       |
| 70) Phenanthrene               | 11.26 | 178  | 80472    | 4.891  | ng    | 99       |
| 74) Fluoranthene               | 12.44 | 202  | 108728   | 6.331  | ng    | 98       |
| 77) Pyrene                     | 12.67 | 202  | 102594   | 5.940  | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.86 | 228  | 52113    | 4.117  | ng    | 100      |
| 82) Chrysene                   | 13.89 | 228  | 45963m   | 3.650  | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 13.86 | 149  | 41266    | 5.623  | ng    | # 99     |
| 87) Benzo(b)fluoranthene       | 14.88 | 252  | 52585m   | 4.111  | ng    |          |
| 89) Benzo(a)pyrene             | 15.22 | 252  | 38784    | 3.425  | ng    | 98       |

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

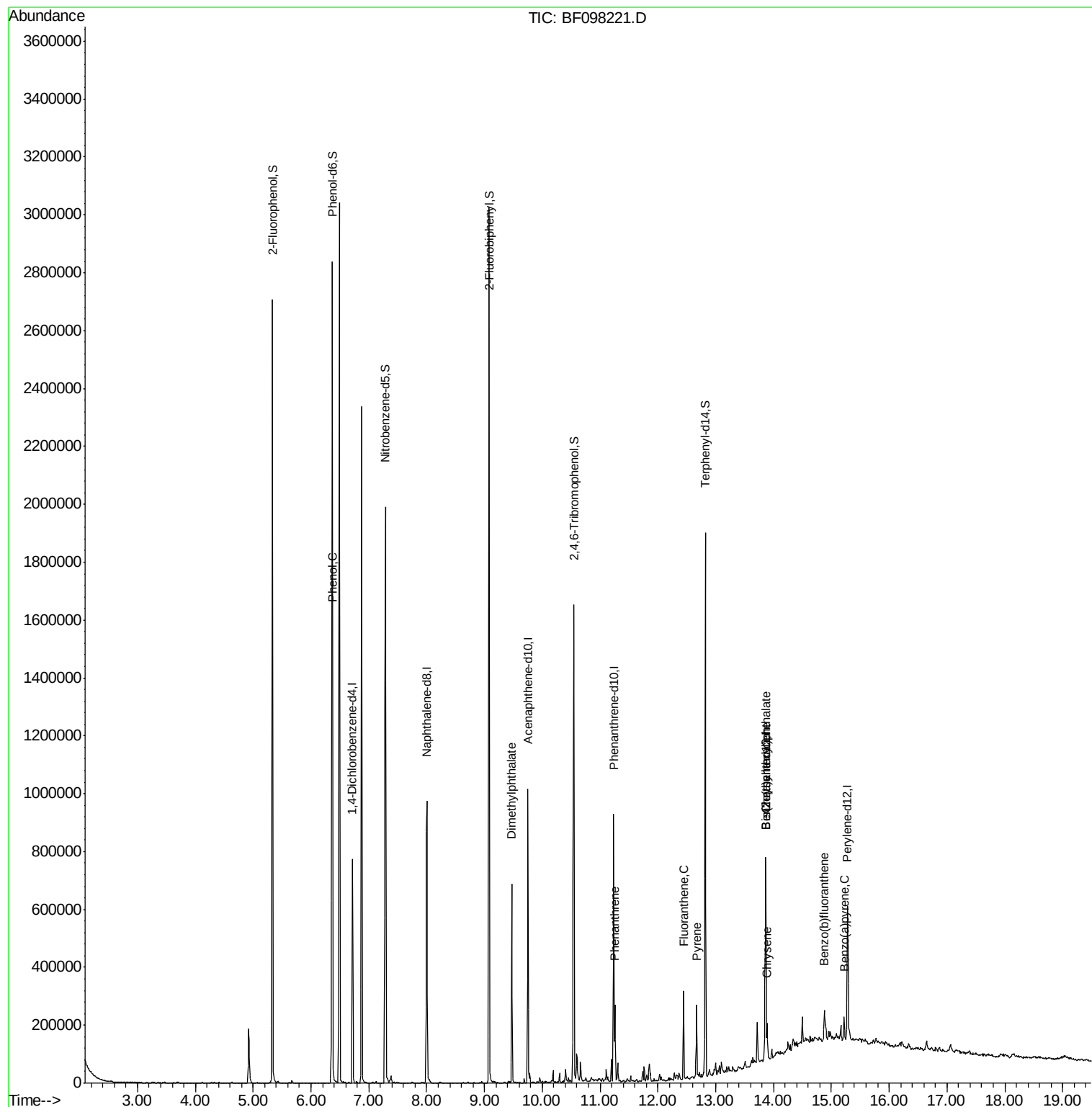
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098221.D  
Acq On : 1 Sep 2017 12:46  
Operator : SJ/JU  
Sample : I4987-04  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

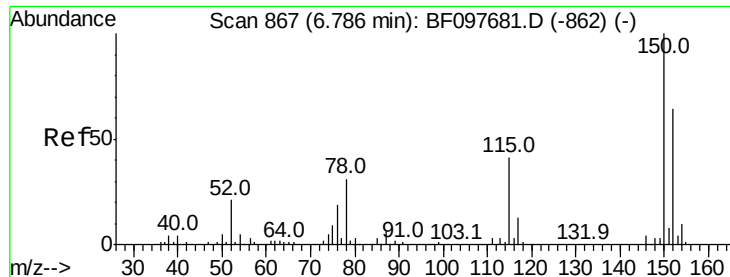
Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

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9/5/2017 5:21:58 PM

Quant Time: Sep 01 16:26:40 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 01 16:25:25 2017  
Response via : Initial Calibration





#1

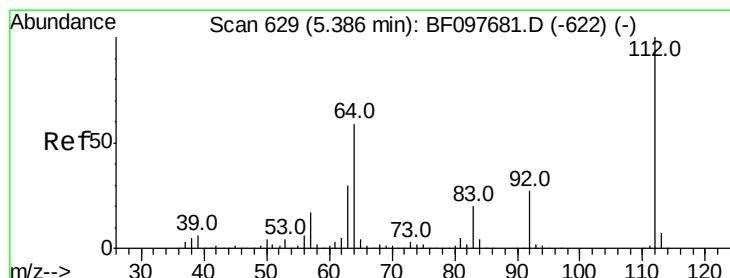
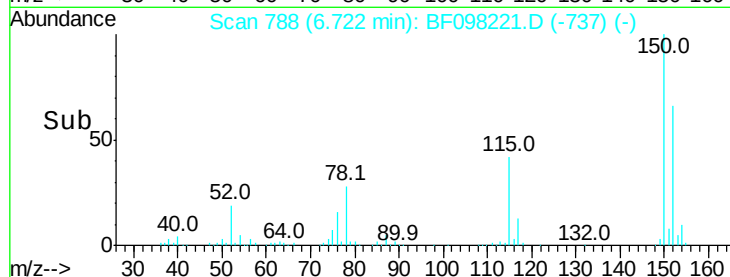
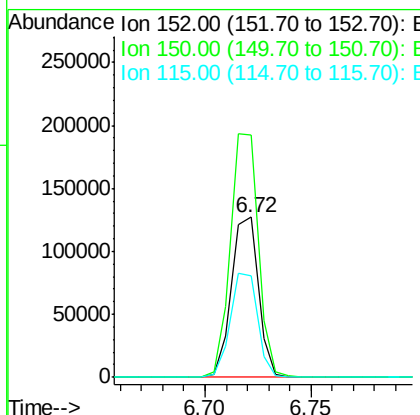
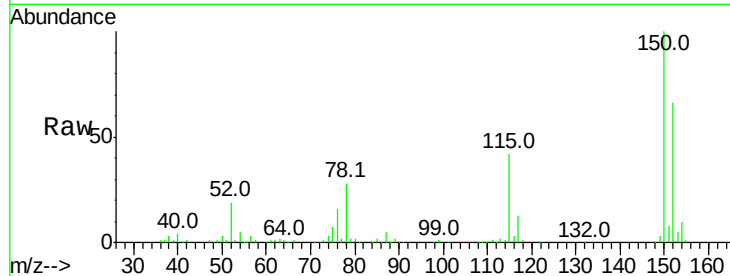
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.8 | 126.2 | 189.2 |
| 115     | 63.2  | 52.2  | 78.2  |

Manual Integrations  
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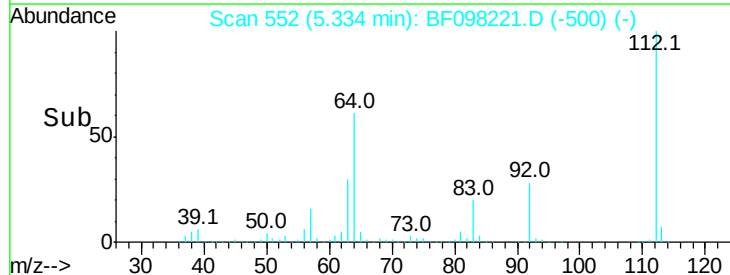
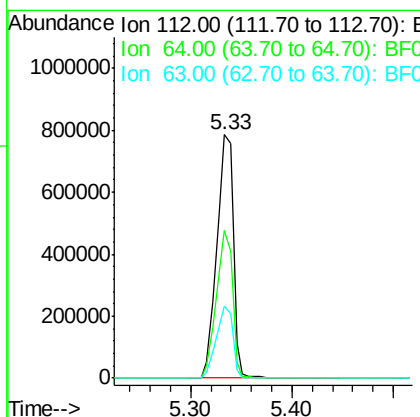
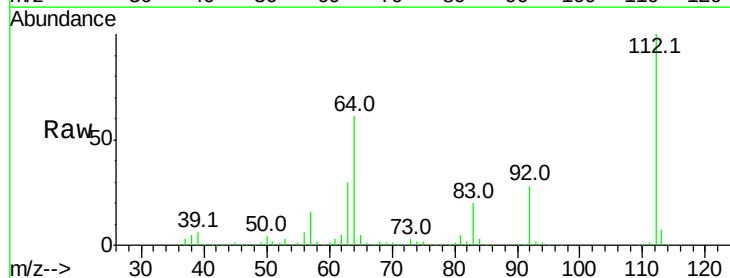
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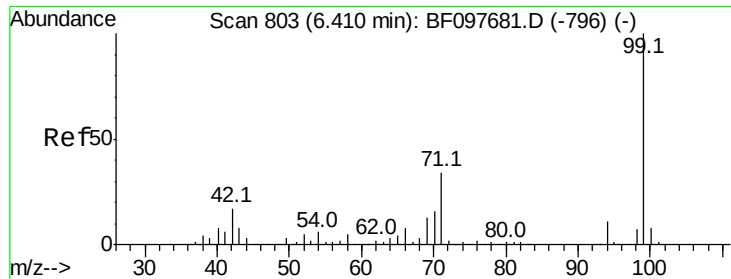


#5

2-Fluorophenol  
Concen: 120.761 ng  
RT: 5.33 min Scan# 552  
Delta R.T. 0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.5  | 46.0  | 69.0  |
| 63      | 29.6  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 121.321 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.00 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

Instrument :

BNA\_F

ClientSampled :

SB-06-COMP

Tot Ion: 99 Resp: 1218470

Ion Ratio Lower Upper

99 100

42 14.6 13.5 20.3

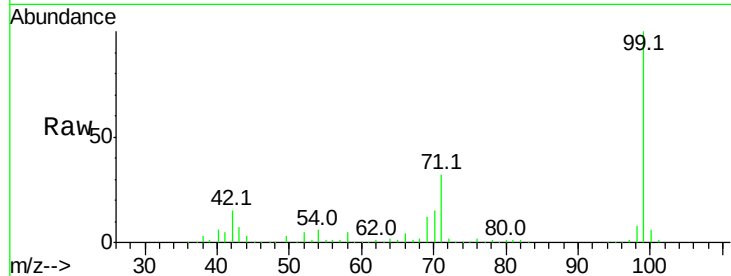
71 32.3 24.5 36.7

Manual Integrations

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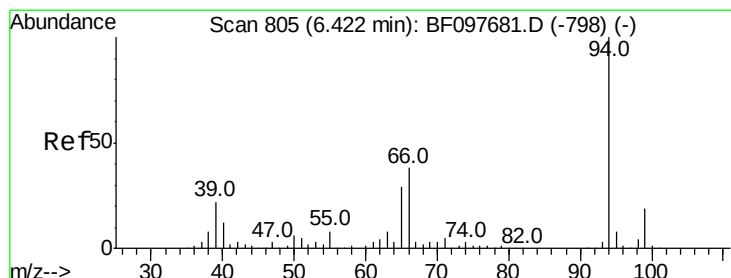
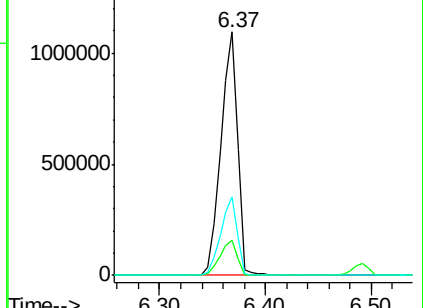
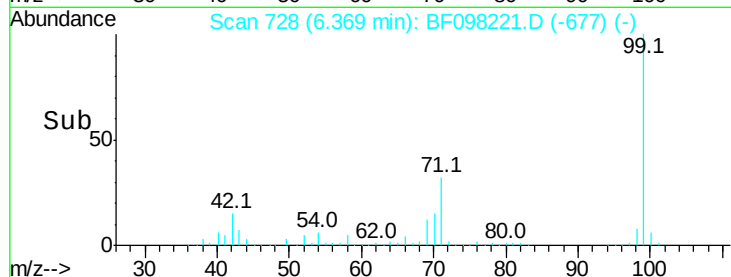
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.837 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

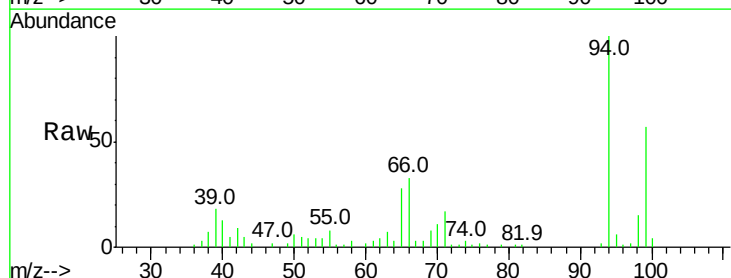
Tgt Ion: 94 Resp: 33325

Ion Ratio Lower Upper

94 100

65 28.3 9.9 49.9

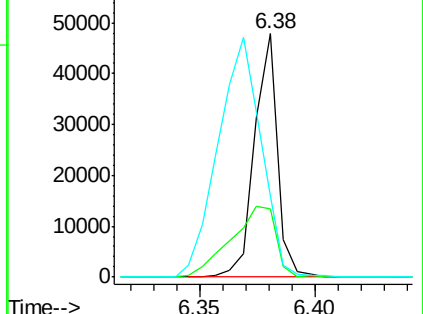
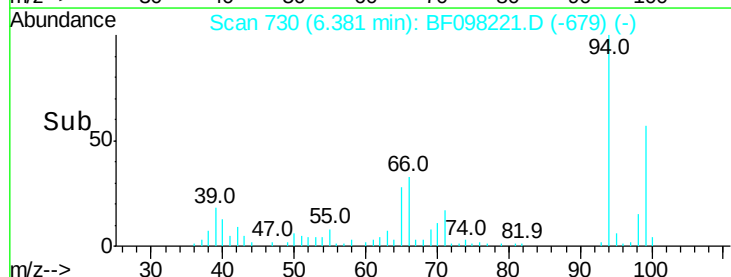
66 33.0 23.1 63.1

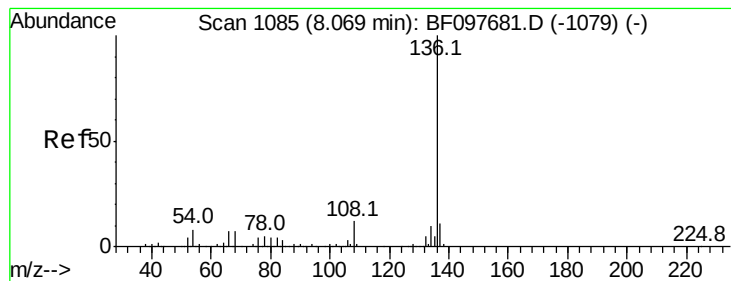


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1006

Delta R.T. 0.00 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

Instrument :

BNA\_F

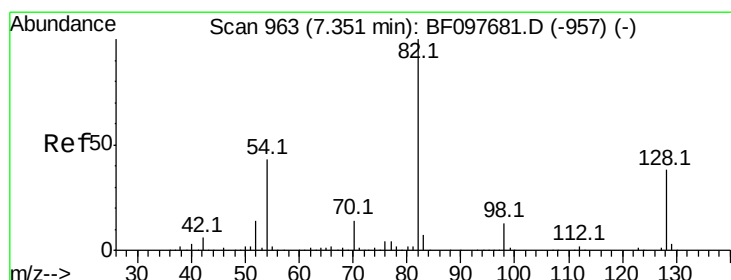
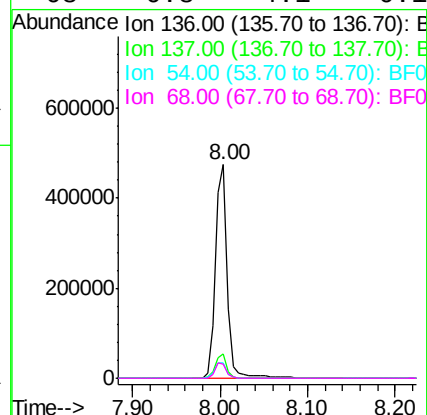
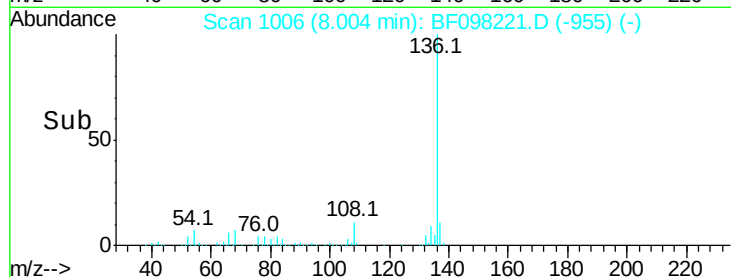
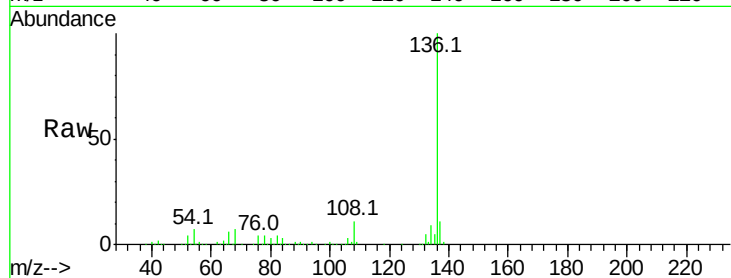
ClientSampleId :

SB-06-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.1  | 8.5  | 12.7  |       |
| 54      | 7.2   | 4.9  | 7.3   |       |
| 68      | 6.8   | 4.1  | 6.1   |       |

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#23

Nitrobenzene-d5

Concen: 91.328 ng

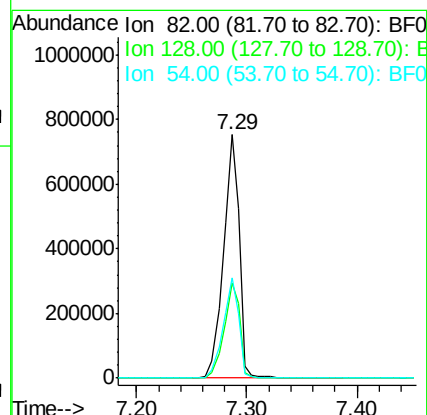
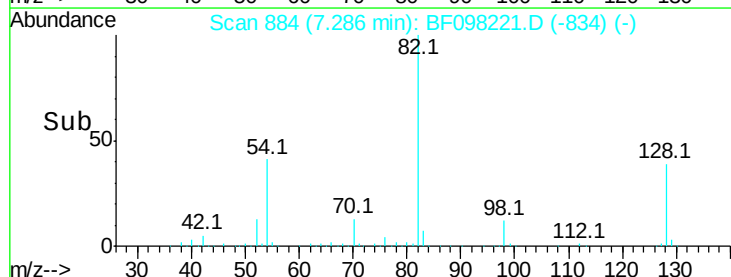
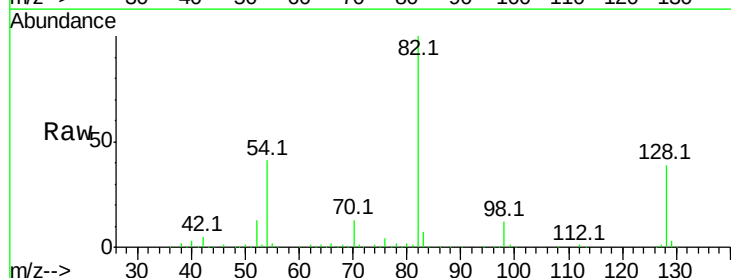
RT: 7.29 min Scan# 884

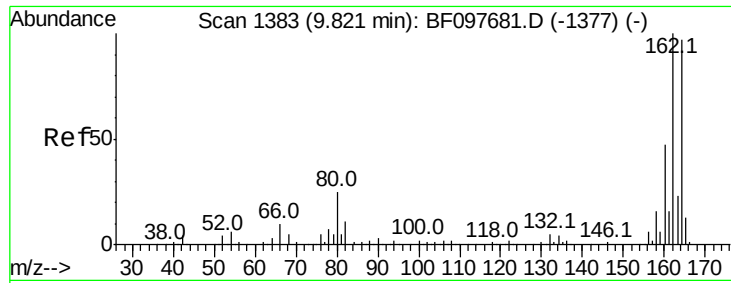
Delta R.T. -0.01 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 38.9  | 34.0 | 51.0  |       |
| 54      | 40.9  | 42.2 | 63.2  |       |





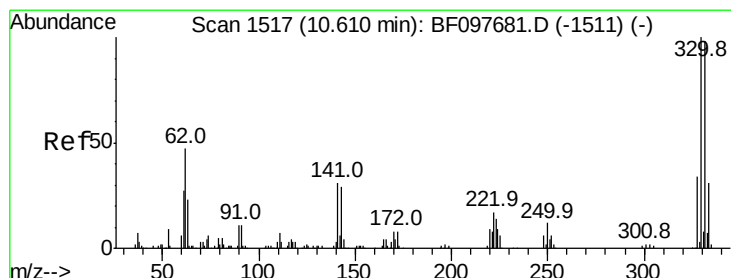
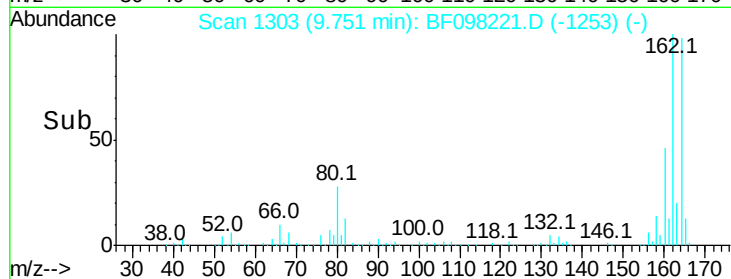
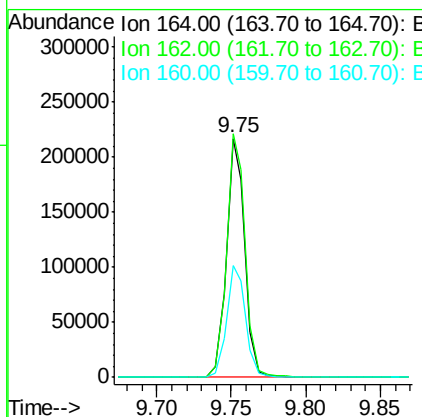
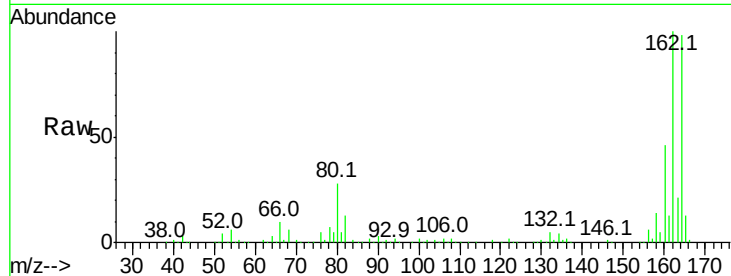
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF098221.D  
 Acq: 1 Sep 2017 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 188908 |       |       |
| 162     | 101.8 | 82.6   | 123.8 |       |
| 160     | 47.0  | 36.2   | 54.2  |       |

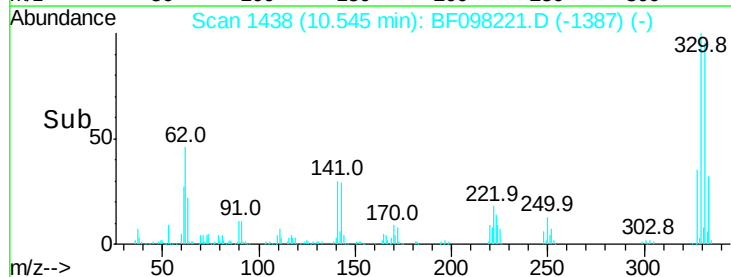
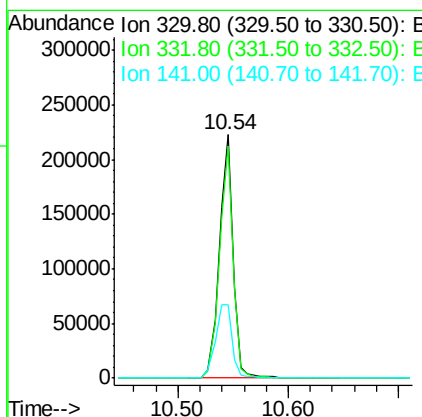
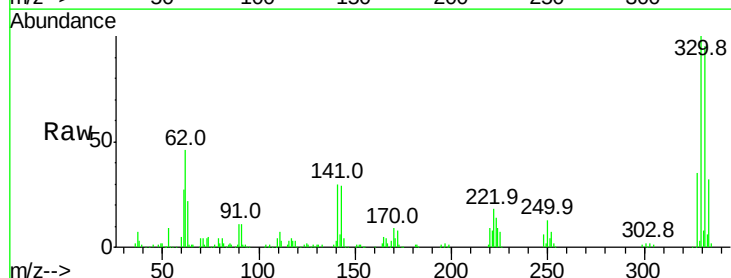
Manual Integrations  
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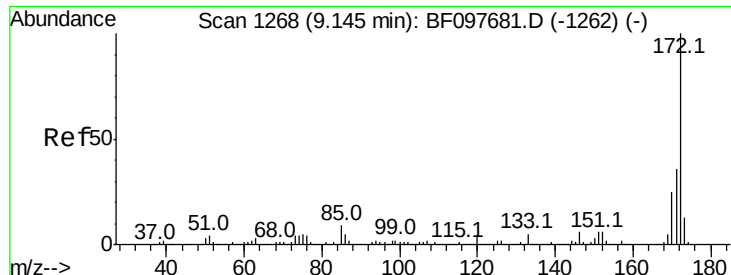
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#41  
 2,4,6-Tribromophenol  
 Concen: 117.657 ng  
 RT: 10.54 min Scan# 1438  
 Delta R.T. 0.00 min  
 Lab File: BF098221.D  
 Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 192850 |       |       |
| 332     | 95.0  | 76.6   | 115.0 |       |
| 141     | 36.5  | 31.4   | 47.2  |       |





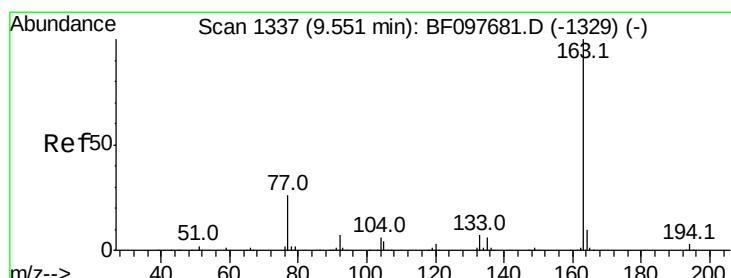
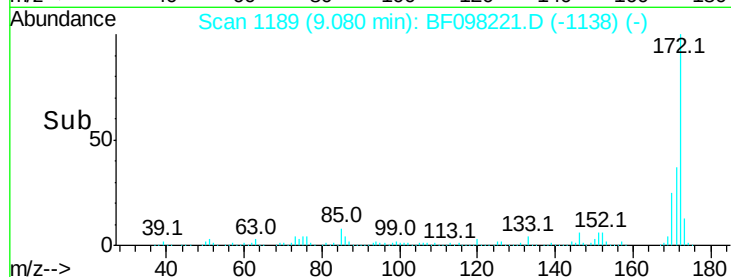
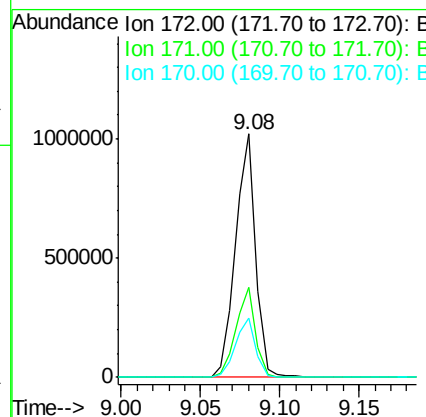
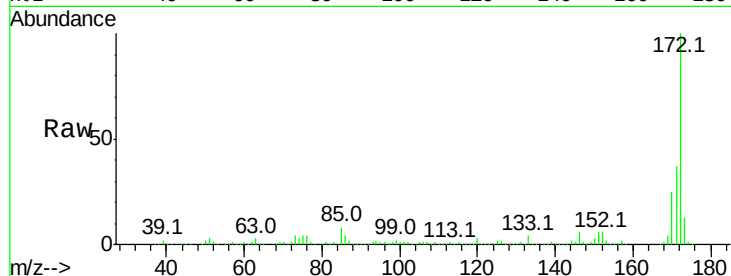
#44  
2-Fluorobiphenyl  
Concen: 70.019 ng  
RT: 9.08 min Scan# 1189  
Delta R.T. 0.00 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 900294 |       |       |
| 171     | 36.8  |        | 29.6  | 44.4  |
| 170     | 24.5  |        | 19.8  | 29.8  |

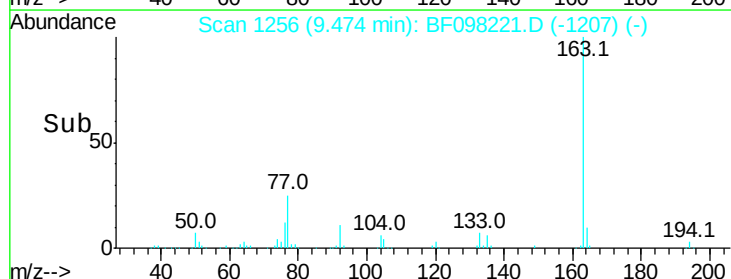
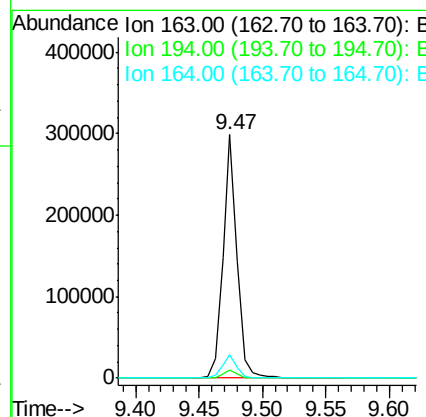
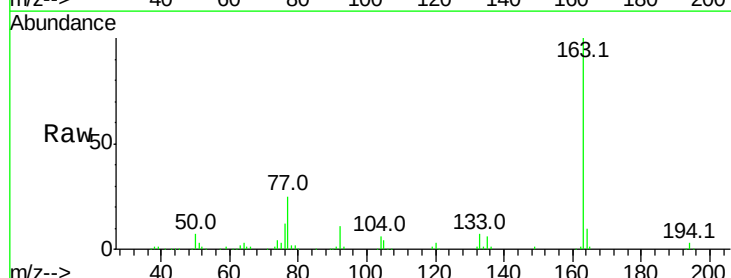
Manual Integrations  
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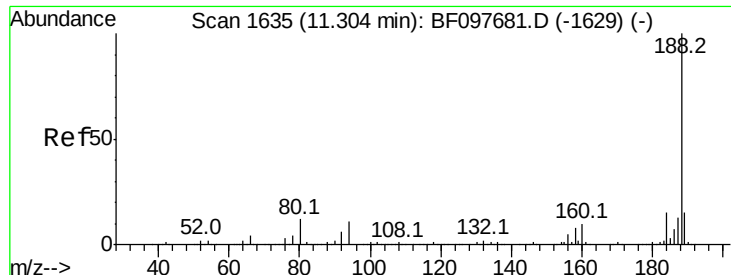
mohammad  
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#49  
Dimethylphthalate  
Concen: 16.875 ng  
RT: 9.47 min Scan# 1256  
Delta R.T. -0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 233027 |       |       |
| 194     | 3.4   |        | 2.6   | 4.0   |
| 164     | 9.6   |        | 8.4   | 12.6  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

Instrument :

BNA\_F

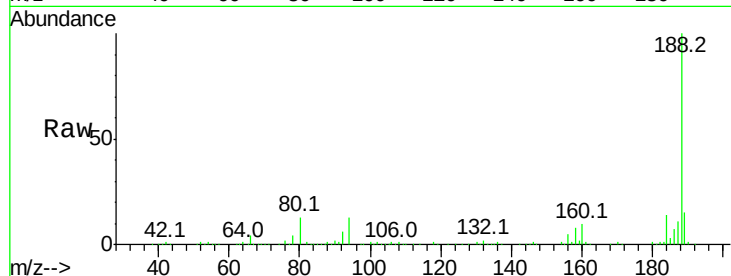
ClientSampleId :

SB-06-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 308760 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 12.6  | 9.4   | 14.2   |
| 80        | 13.4  | 10.2  | 15.2   |

Manual Integrations  
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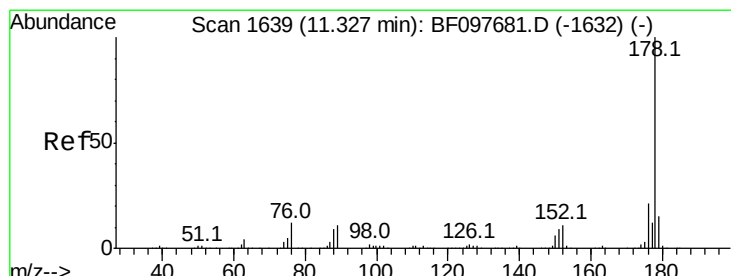
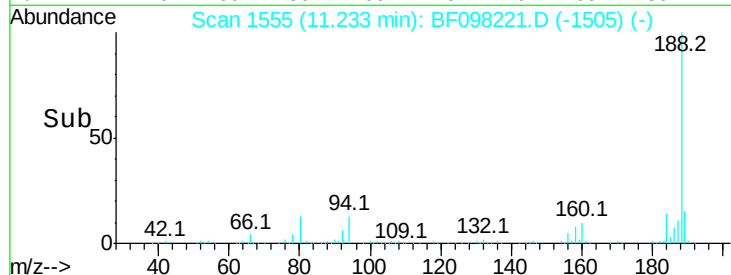
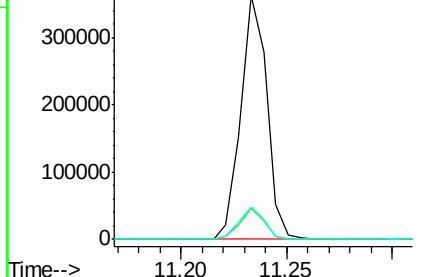
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 4.891 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF098221.D

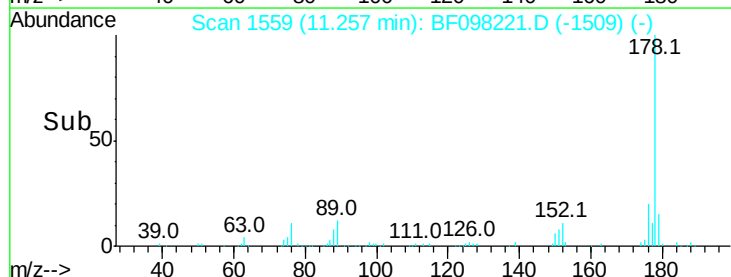
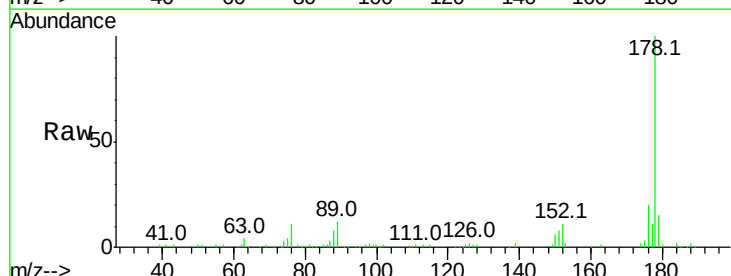
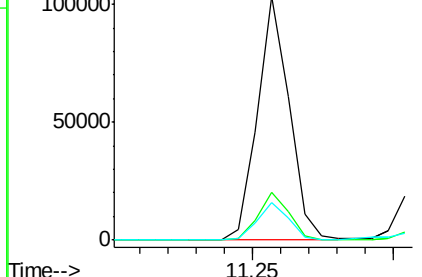
Acq: 1 Sep 2017 12:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 80472 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.8  | 16.2  | 24.4  |
| 179       | 15.3  | 12.6  | 19.0  |

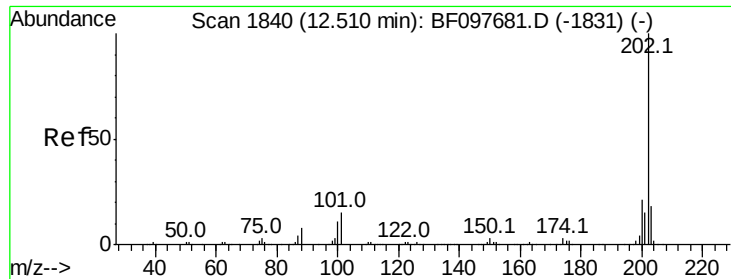
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#74

Fluoranthene

Concen: 6.331 ng

RT: 12.44 min Scan# 1761

Delta R.T. 0.00 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

Instrument :

BNA\_F

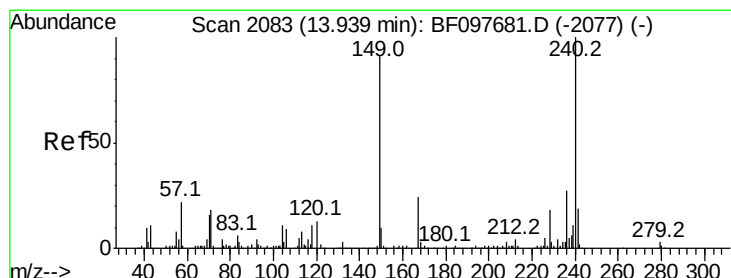
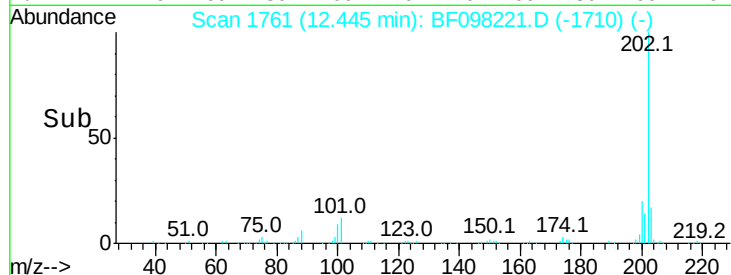
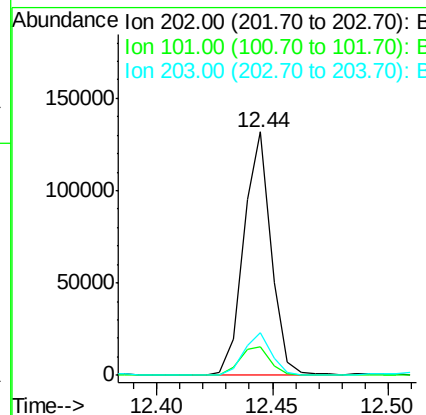
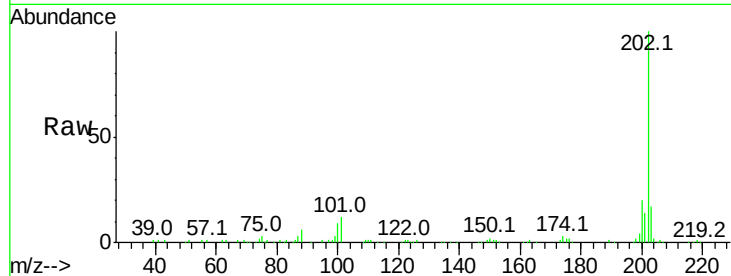
ClientSampleId :

SB-06-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.0  | 0.0        | 33.2  |
| 203     | 17.4  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

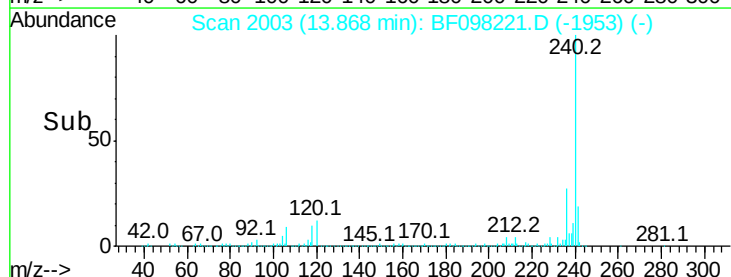
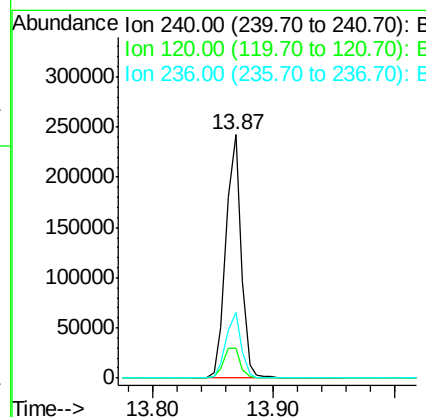
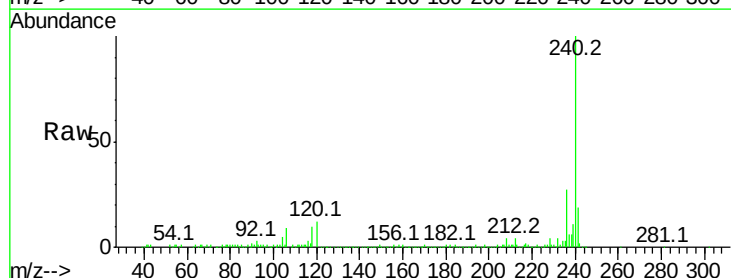
RT: 13.87 min Scan# 2003

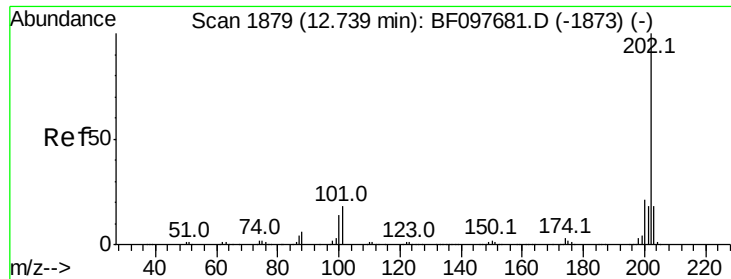
Delta R.T. -0.01 min

Lab File: BF098221.D

Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.1  | 5.8        | 8.8#  |
| 236     | 27.2  | 20.5       | 30.7  |





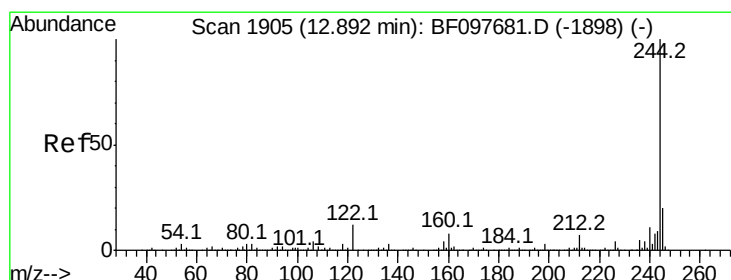
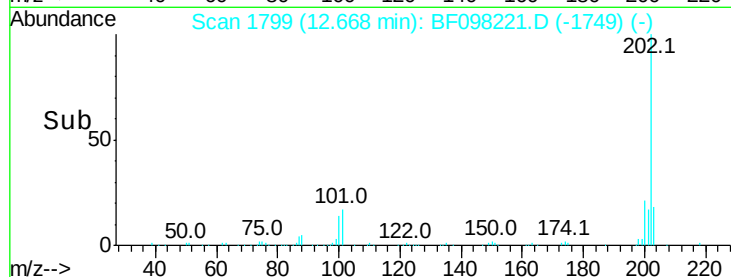
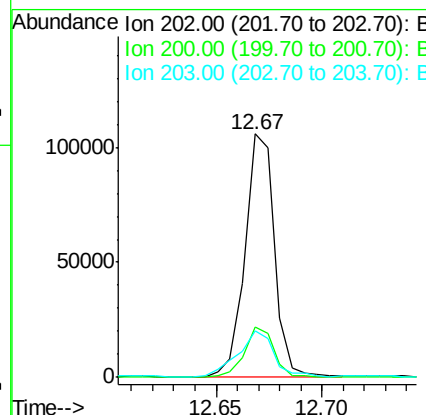
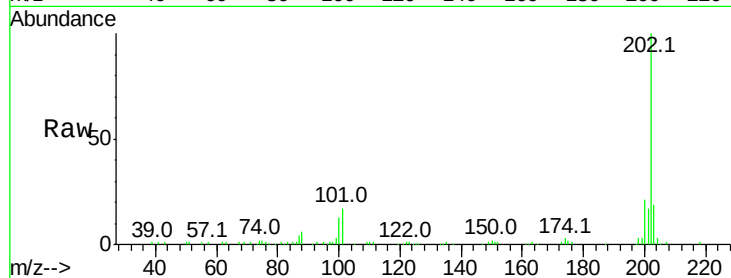
#77  
Pvrene  
Concen: 5.940 ng  
RT: 12.67 min Scan# 1799  
Delta R.T. -0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.9  | 17.6       | 26.4  |
| 203     | 18.9  | 14.4       | 21.6  |

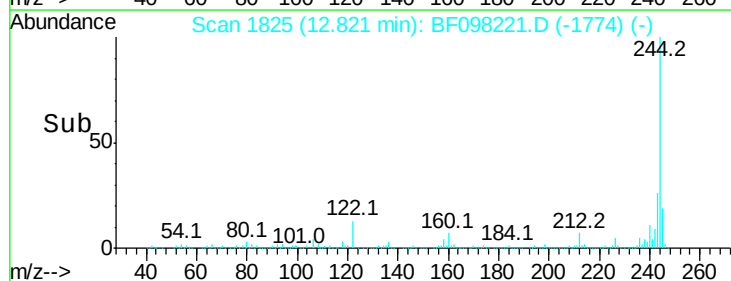
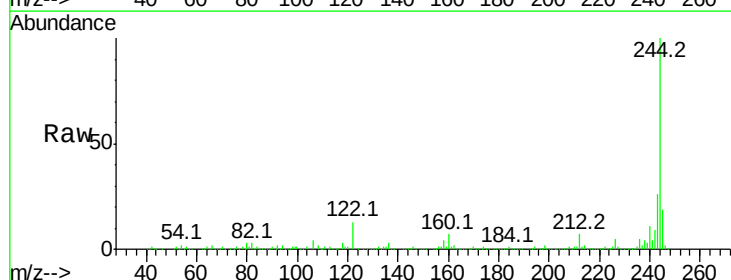
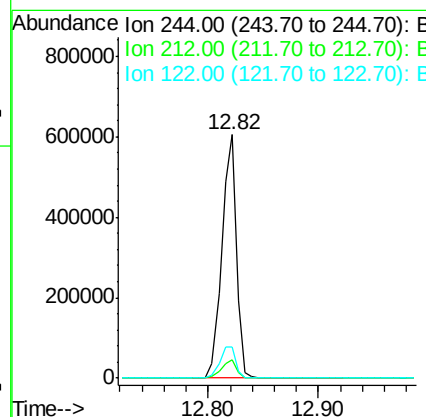
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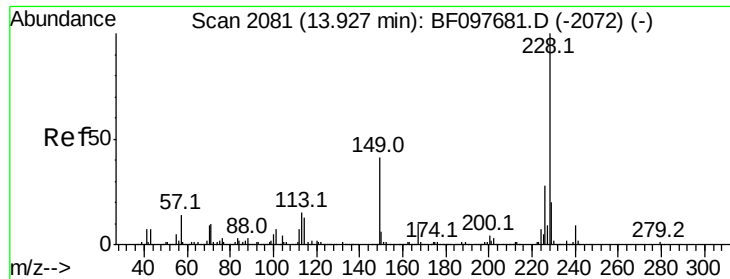
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#78  
Terphenyl-d14  
Concen: 54.355 ng  
RT: 12.82 min Scan# 1825  
Delta R.T. 0.00 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.3   | 6.0        | 9.0   |
| 122     | 12.6  | 10.3       | 15.5  |





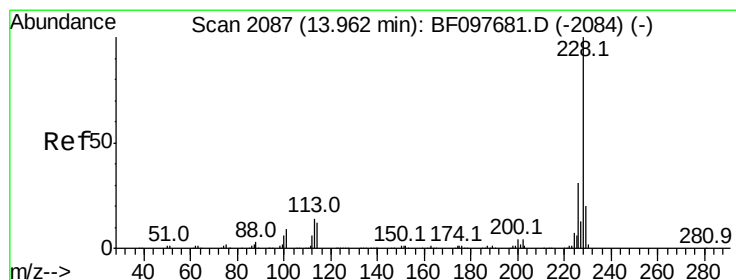
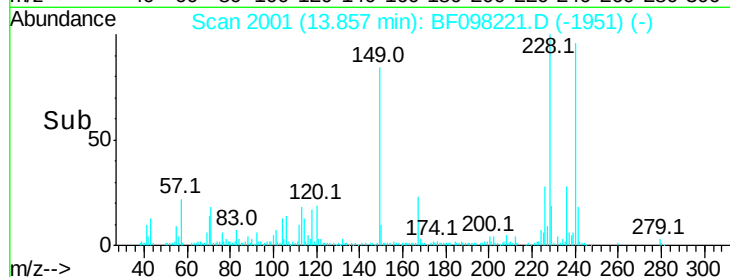
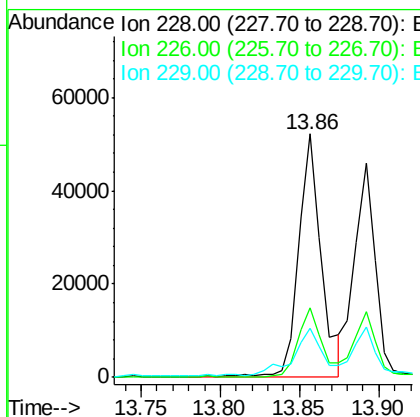
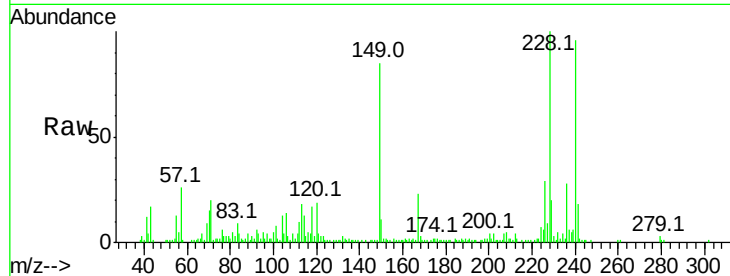
#80  
Benzo(a)anthracene  
Concen: 4.117 ng  
RT: 13.86 min Scan# 2001  
Delta R.T. -0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.6  | 33.8  |
| 229     | 20.3  | 16.3  | 24.5  |

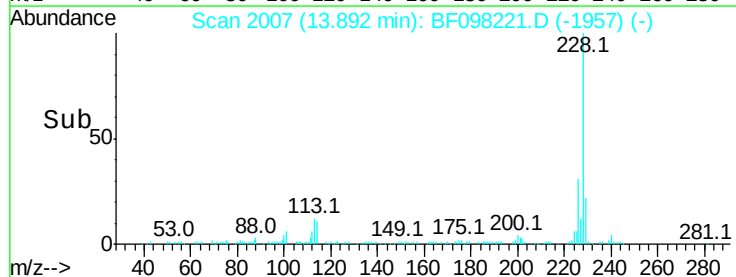
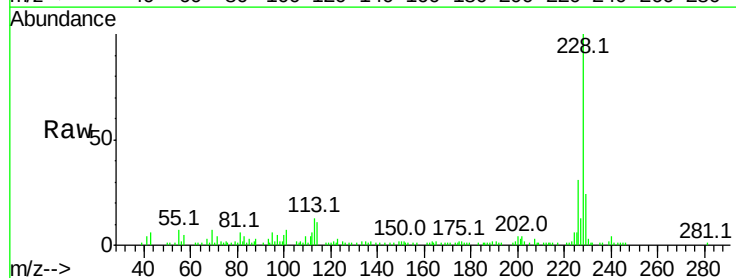
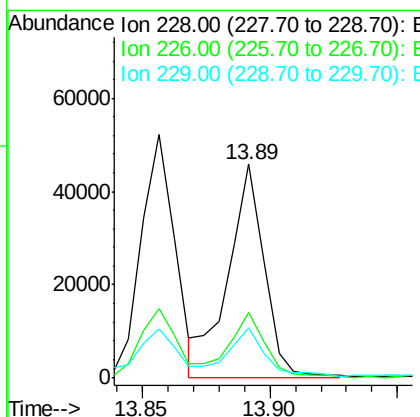
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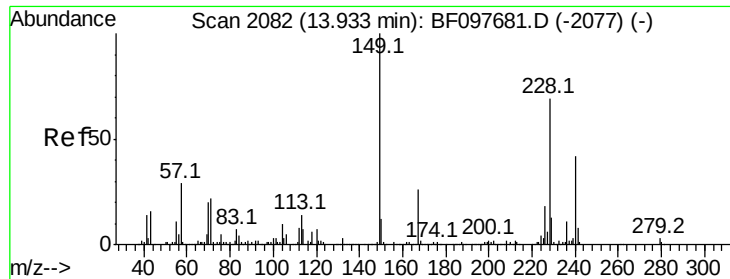
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#82  
Chrysene  
Concen: 3.650 ng m  
RT: 13.89 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 24.9  | 37.3  |
| 229     | 23.7  | 15.8  | 23.6# |





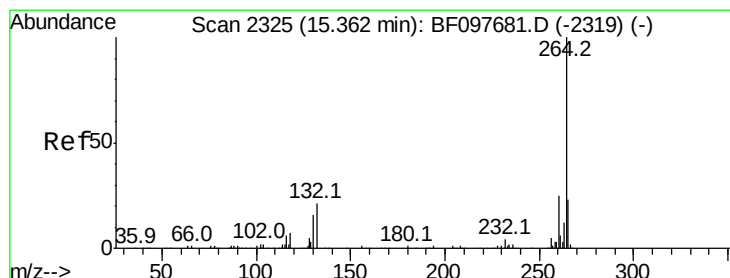
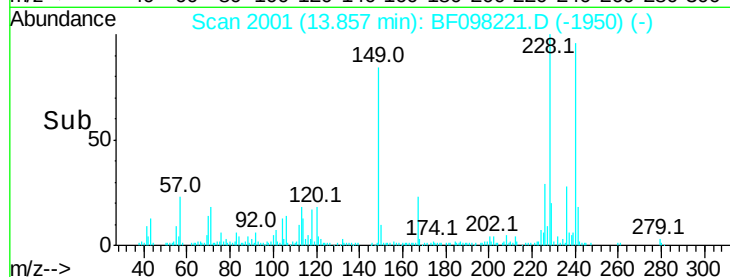
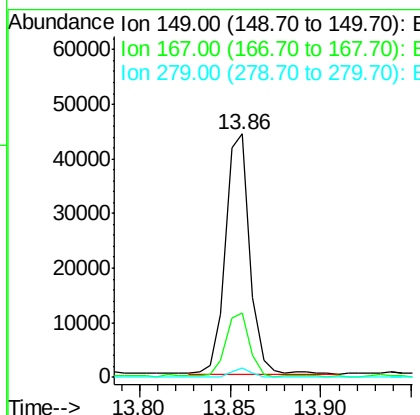
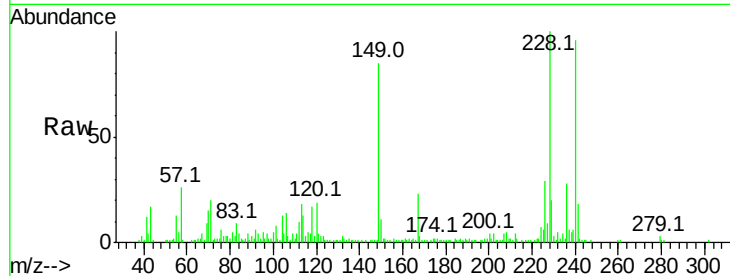
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.623 ng  
 RT: 13.86 min Scan# 2001  
 Delta R.T. 0.00 min  
 Lab File: BF098221.D  
 Acq: 1 Sep 2017 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.4  | 21.0  | 31.4  |
| 279     | 3.9   | 1.9   | 2.9   |

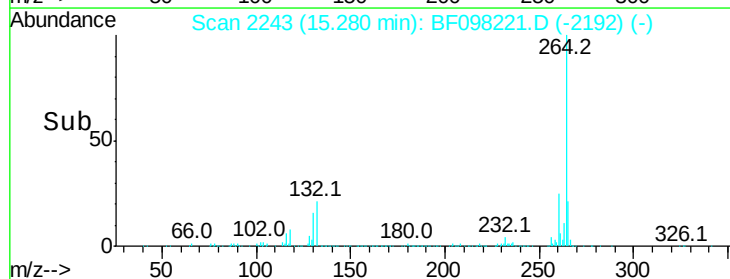
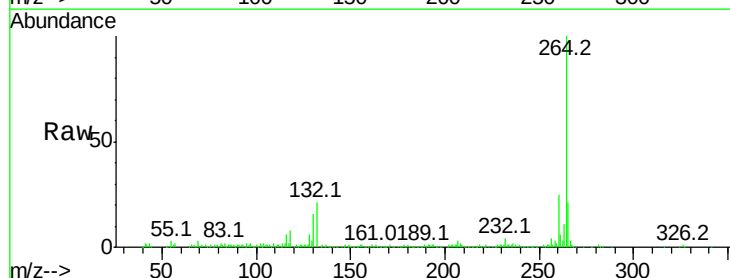
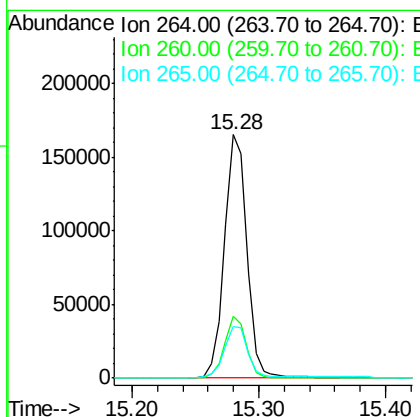
Manual Integrations  
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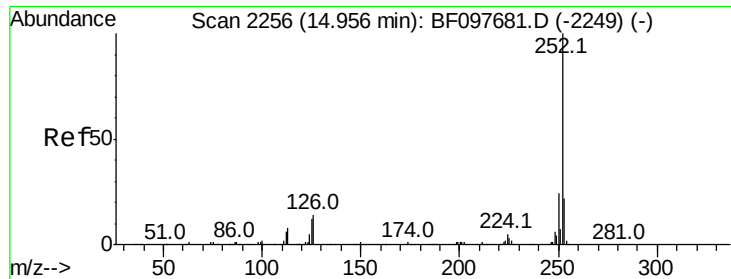
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.28 min Scan# 2243  
 Delta R.T. 0.00 min  
 Lab File: BF098221.D  
 Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 19.5  | 29.3  |
| 265     | 21.4  | 17.2  | 25.8  |





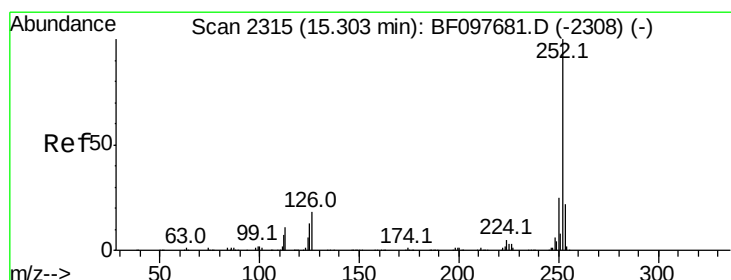
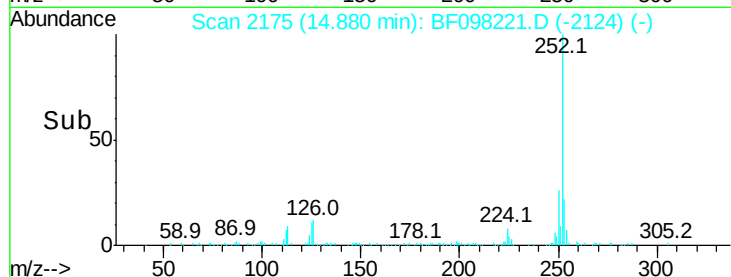
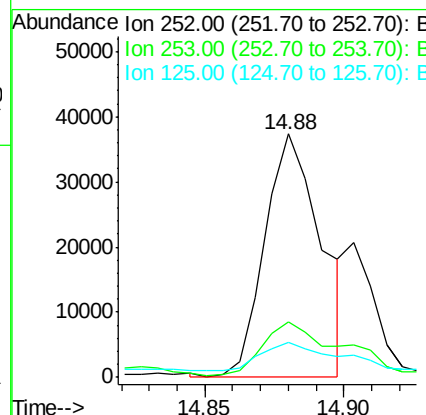
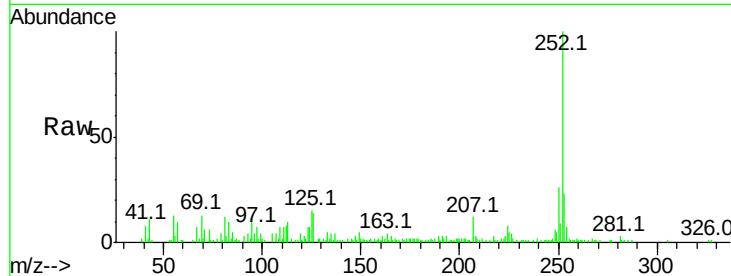
#87  
Benzo(b)fluoranthene  
Concen: 4.111 ng m  
RT: 14.88 min Scan# 2175  
Delta R.T. 0.00 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.1  | 27.1  |
| 125     | 14.6  | 9.8   | 14.8  |

Manual Integrations  
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#89  
Benzo(a)pyrene  
Concen: 3.425 ng  
RT: 15.22 min Scan# 2233  
Delta R.T. -0.01 min  
Lab File: BF098221.D  
Acq: 1 Sep 2017 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.5  | 26.3  |
| 125     | 14.2  | 11.0  | 16.4  |

