

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097178.D  
 Acq On : 29 Jul 2017 2:33  
 Operator : SJ/JU  
 Sample : I4456-13  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

Manual Integrations  
 APPROVED

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 7/31/2017 6:52:30 PM

Quant Time: Jul 29 03:35:03 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.49  | 152  | 102711   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8          | 7.77  | 136  | 393869   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10        | 9.52  | 164  | 160190   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10        | 10.99 | 188  | 211188   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12            | 13.61 | 240  | 200005   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12            | 14.96 | 264  | 144169   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.09  | 112  | 715288   | 104.98 | ng    | -0.01     |
| 7) Phenol-d6                | 6.15  | 99   | 859576   | 110.51 | ng    | -0.02     |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 501459   | 74.69  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 111781   | 88.32  | ng    | -0.02     |
| 44) 2-Fluorobiphenyl        | 8.85  | 172  | 705675   | 74.76  | ng    | -0.02     |
| 78) Terphenyl-d14           | 12.57 | 244  | 463582   | 47.26  | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 10) Phenol                  | 6.16  | 94   | 20017    | 2.170  | ng    | Qvalue 81 |
| 49) Dimethylphthalate       | 9.25  | 163  | 183365   | 15.074 | ng    | 98        |
| 70) Phenanthrene            | 11.01 | 178  | 23376    | 2.066  | ng    | 98        |
| 74) Fluoranthene            | 12.19 | 202  | 40832    | 3.683  | ng    | 98        |
| 77) Pyrene                  | 12.42 | 202  | 38601    | 2.357  | ng    | 97        |
| 82) Chrysene                | 13.64 | 228  | 29165m   | 2.308  | ng    |           |
| 87) Benzo(b)fluoranthene    | 14.60 | 252  | 31330m   | 3.615  | ng    |           |
| 89) Benzo(a)pyrene          | 14.91 | 252  | 17712    | 2.233  | ng    | # 82      |
| 91) Benzo(g,h,i)perylene    | 16.54 | 276  | 14117    | 2.070  | ng    | # 83      |

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

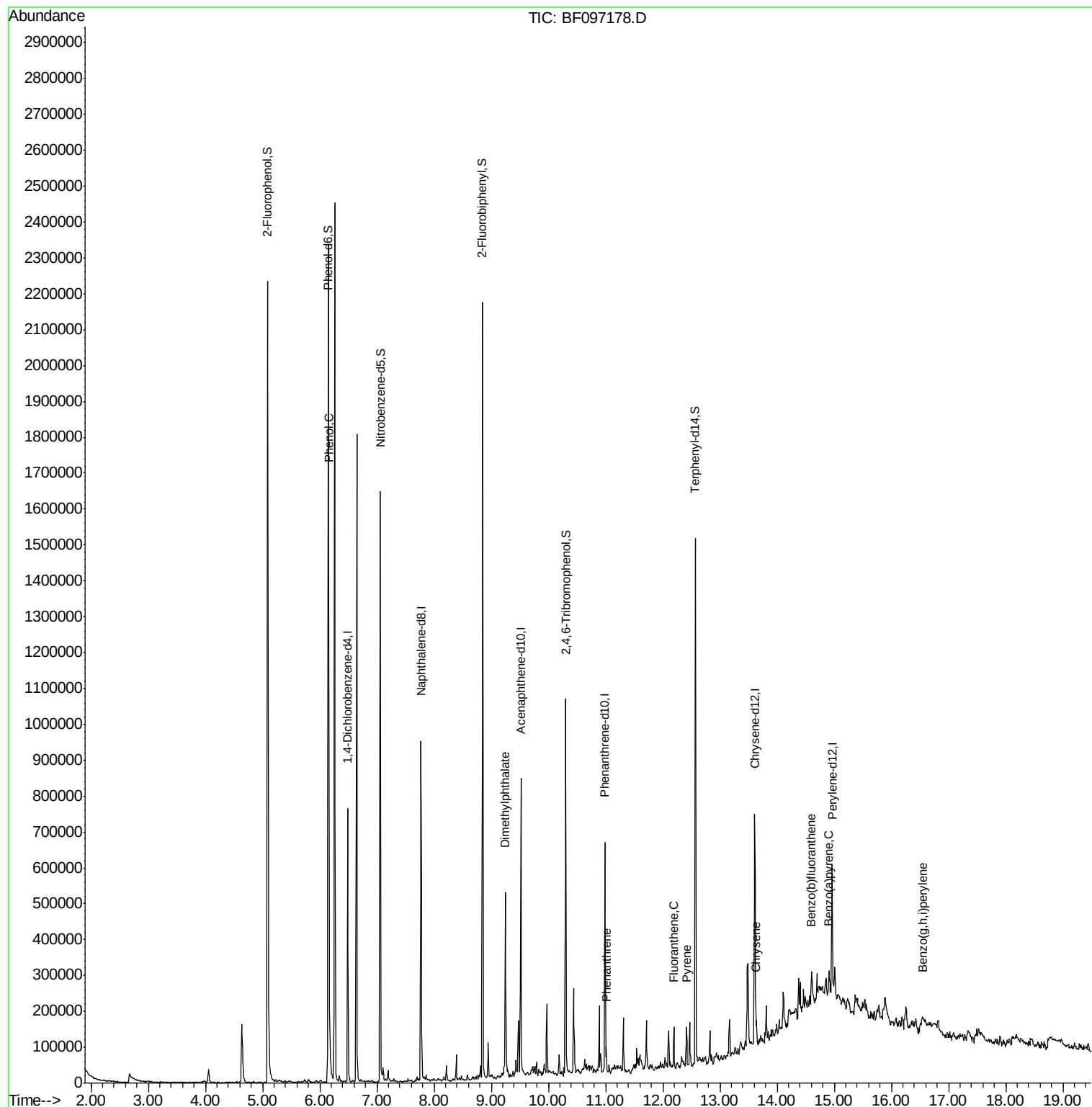
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
Data File : BF097178.D  
Acq On : 29 Jul 2017 2:33  
Operator : SJ/JU  
Sample : I4456-13  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

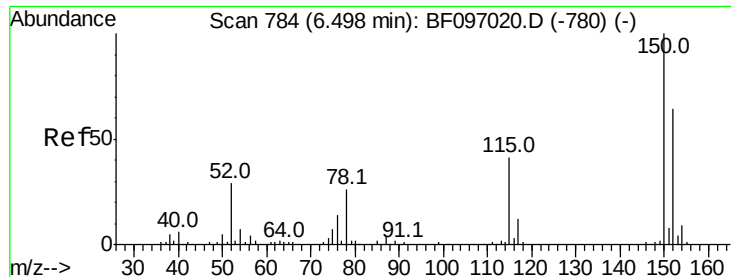
Instrument :  
BNA\_F  
ClientSampleId :  
TP-18D24

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Quant Time: Jul 29 03:35:03 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
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#1

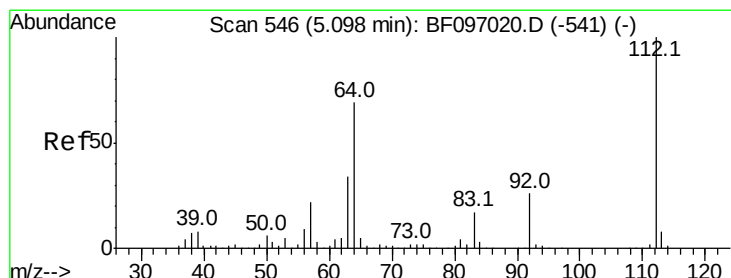
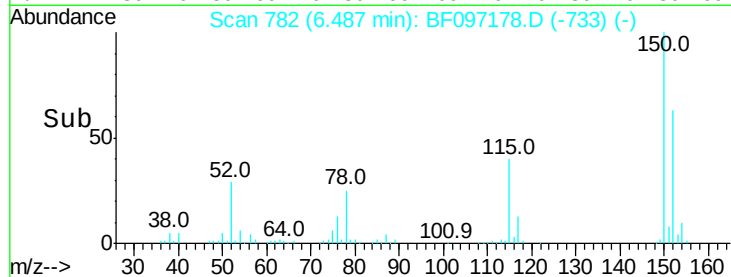
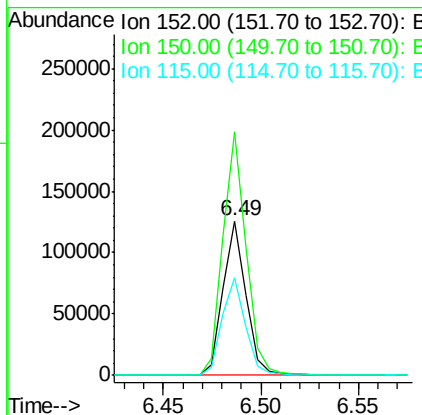
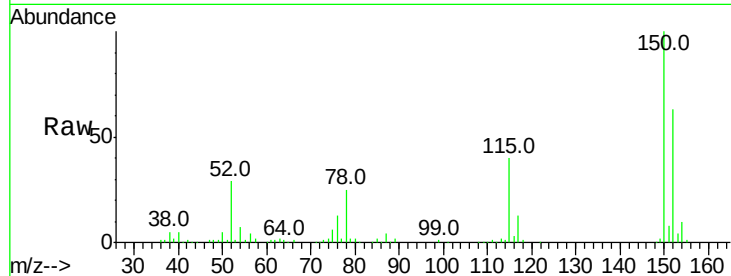
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Instrument :  
BNA\_F  
ClientSampled :  
TP-18D24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.6 | 126.2 | 189.2 |
| 115     | 63.1  | 52.2  | 78.2  |

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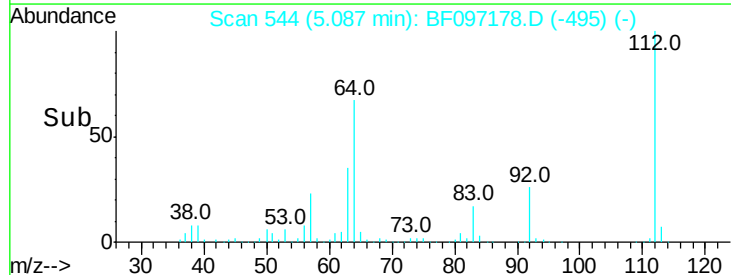
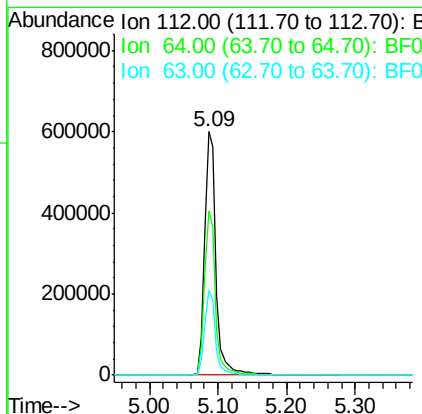
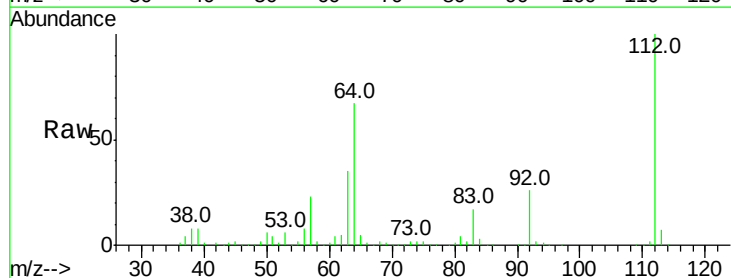
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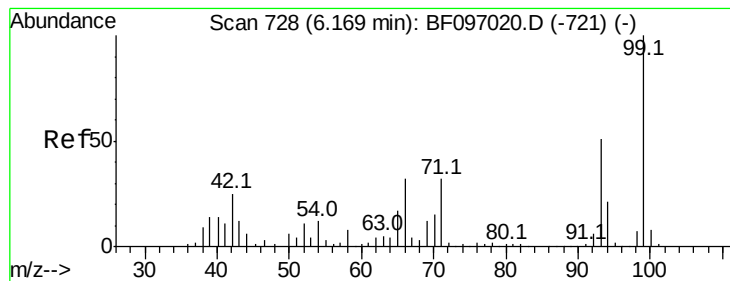


#5

2-Fluorophenol  
Concen: 104.983 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.3  | 46.0  | 69.0  |
| 63      | 34.9  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 110.510 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

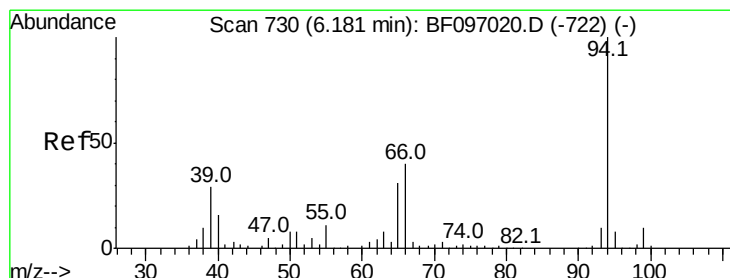
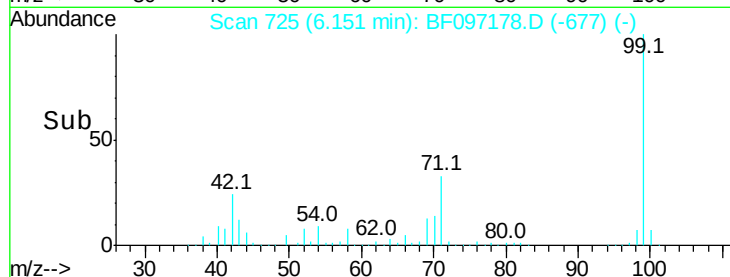
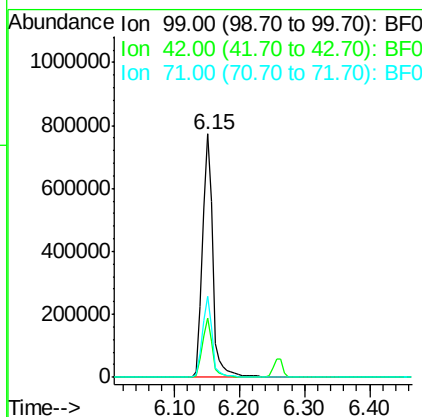
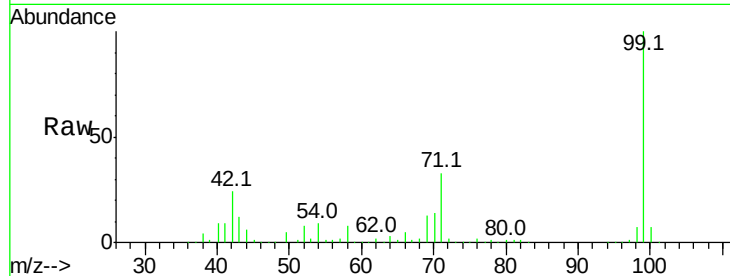
ClientSampled :

TP-18D24

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 99      | 100   | 859576 |       |       |
| 42      | 24.5  |        | 13.5  | 20.3# |
| 71      | 33.0  |        | 24.5  | 36.7  |

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#10

Phenol

Concen: 2.170 ng

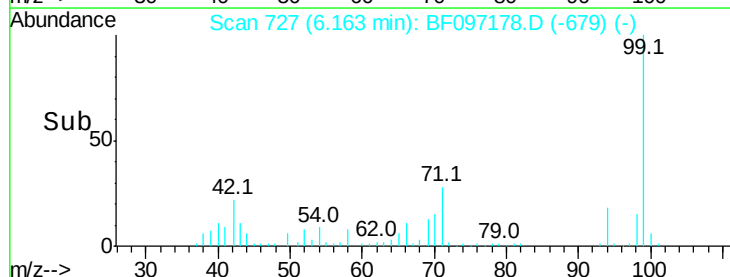
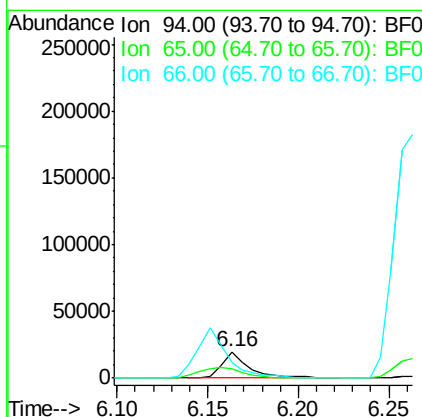
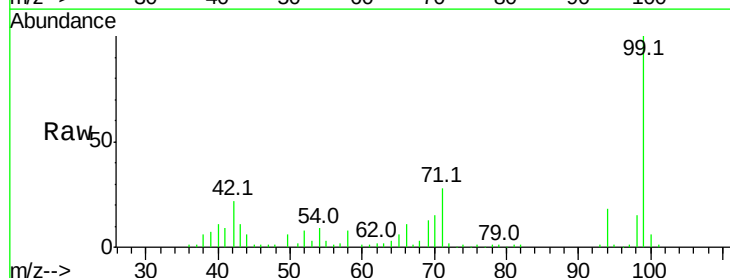
RT: 6.16 min Scan# 727

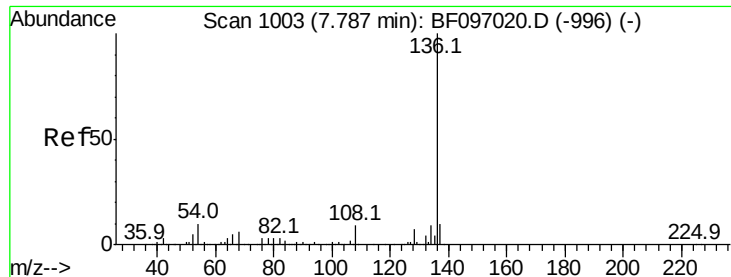
Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 94      | 100   | 20017 |       |       |
| 65      | 35.0  |       | 9.9   | 49.9  |
| 66      | 59.4  |       | 23.1  | 63.1  |





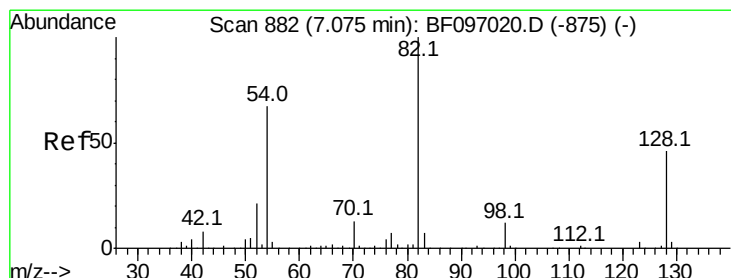
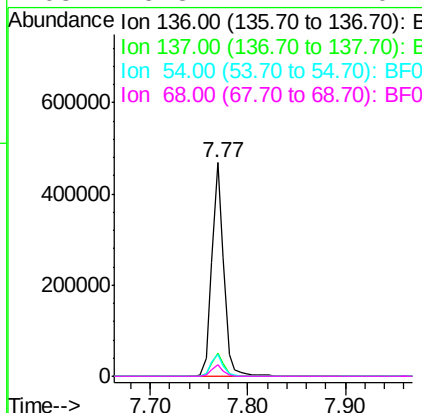
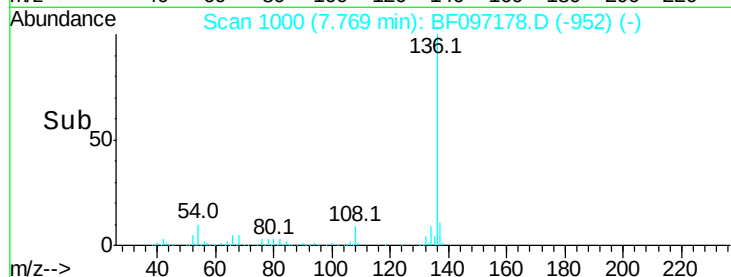
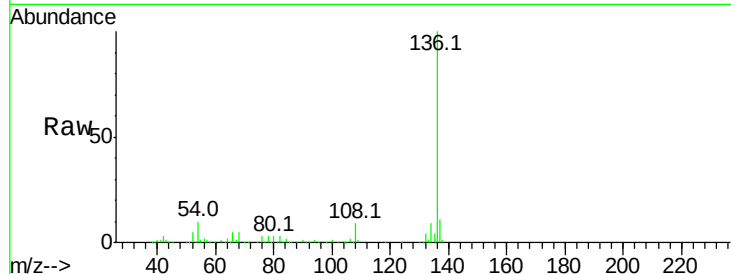
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.77 min Scan# 1000  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

Instrument :  
BNA\_F  
ClientSampled :  
TP-18D24

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 136     | 100   |            |       |
| 137     | 10.7  | 8.5        | 12.7  |
| 54      | 10.2  | 4.9        | 7.3#  |
| 68      | 5.3   | 4.1        | 6.1   |

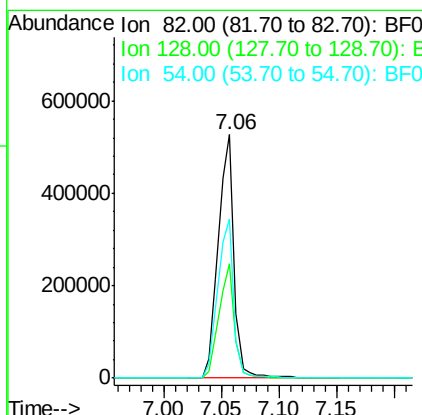
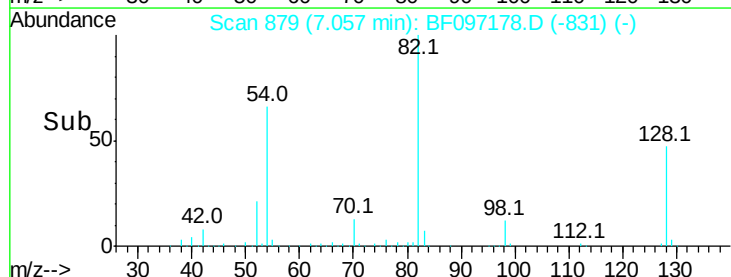
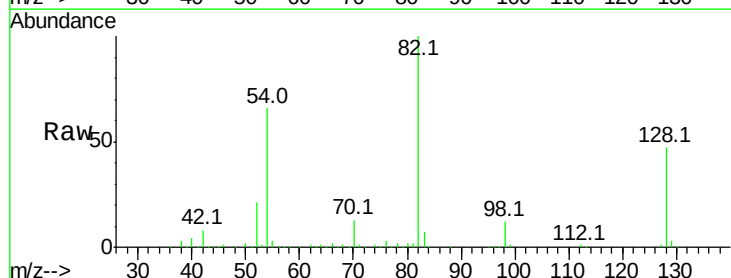
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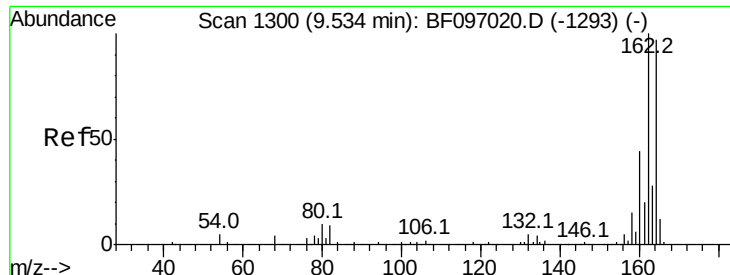
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#23  
Nitrobenzene-d5  
Concen: 74.689 ng  
RT: 7.06 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: BF097178.D  
Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 46.9  | 34.0       | 51.0  |
| 54      | 65.6  | 42.2       | 63.2# |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

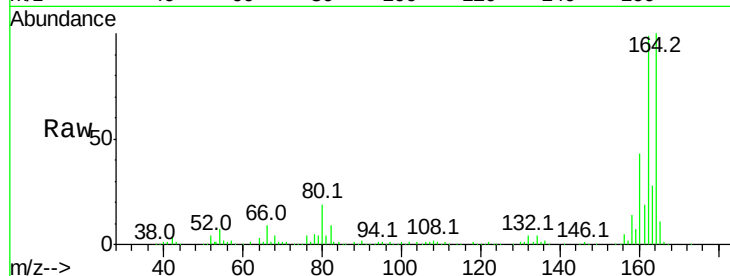
ClientSampled :

TP-18D24

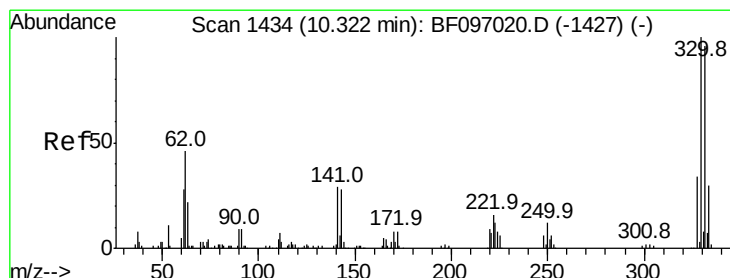
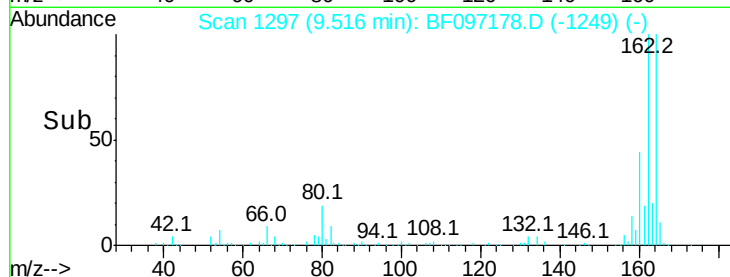
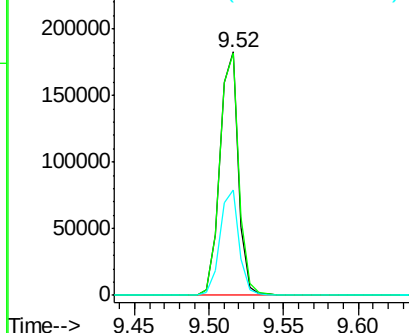
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 160190 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 99.3  | 82.6  | 123.8  |
| 160       | 43.5  | 36.2  | 54.2   |

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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: 88.319 ng

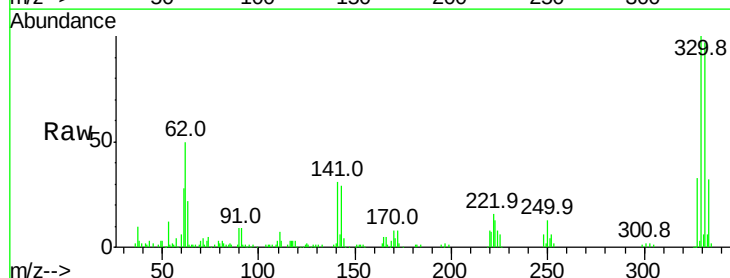
RT: 10.30 min Scan# 1431

Delta R.T. -0.02 min

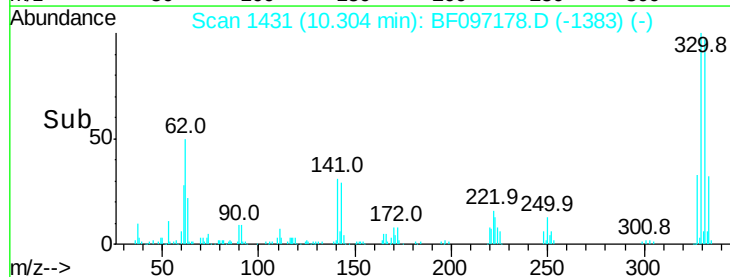
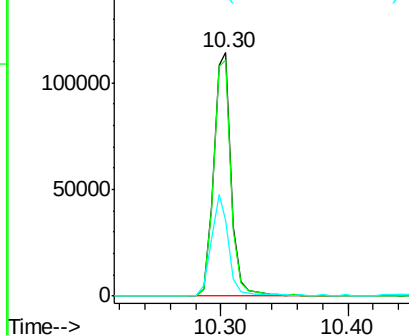
Lab File: BF097178.D

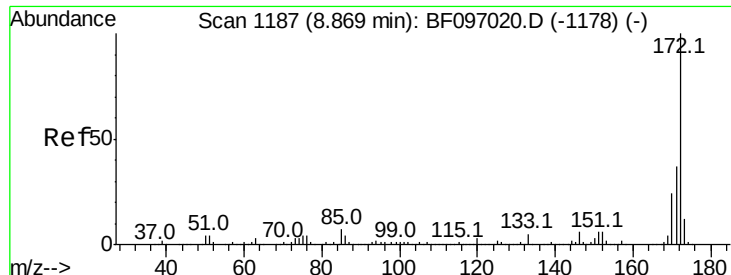
Acq: 29 Jul 2017 2:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 111781 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.1  | 76.6  | 115.0  |
| 141       | 41.8  | 31.4  | 47.2   |



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





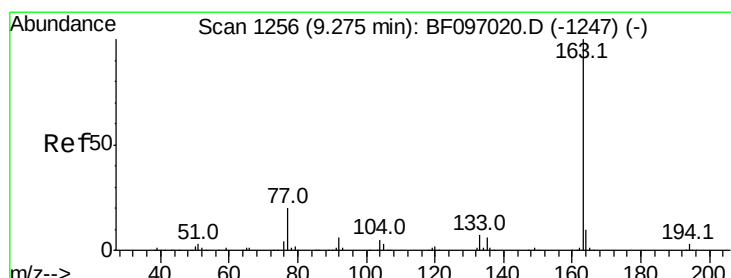
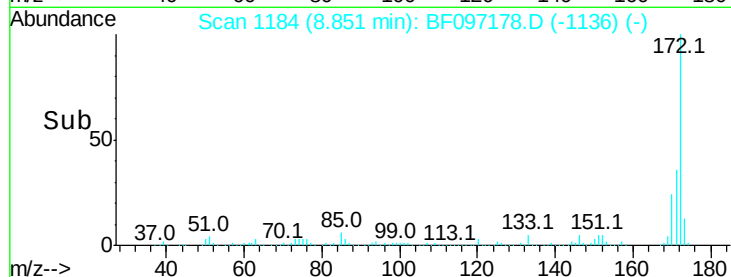
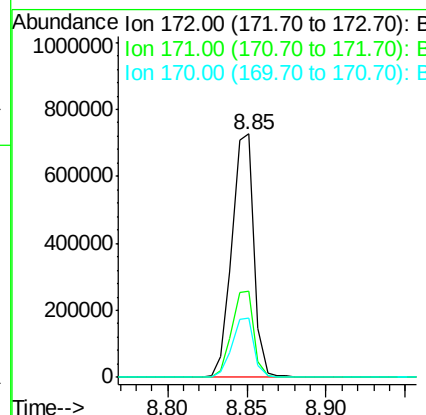
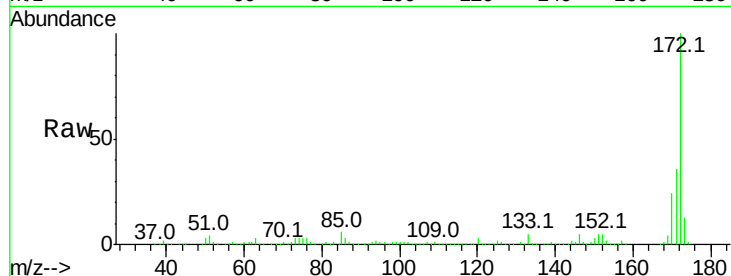
#44  
 2-Fluorobiphenyl  
 Concen: 74.761 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.5  | 29.6       | 44.4  |
| 170     | 24.1  | 19.8       | 29.8  |

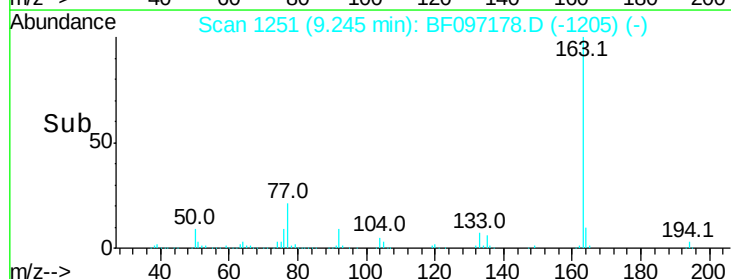
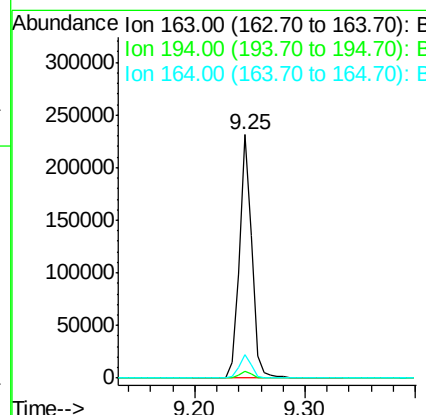
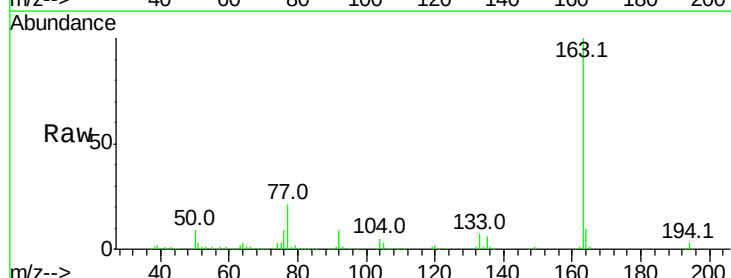
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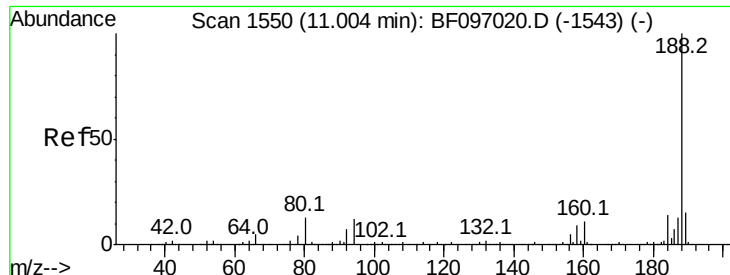
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#49  
 Dimethylphthalate  
 Concen: 15.074 ng  
 RT: 9.25 min Scan# 1251  
 Delta R.T. -0.03 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 2.8   | 2.6        | 4.0   |
| 164     | 9.7   | 8.4        | 12.6  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.99 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

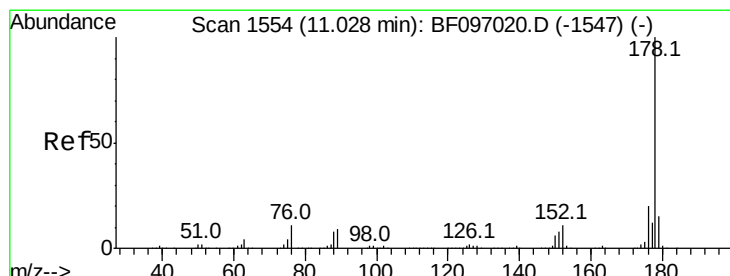
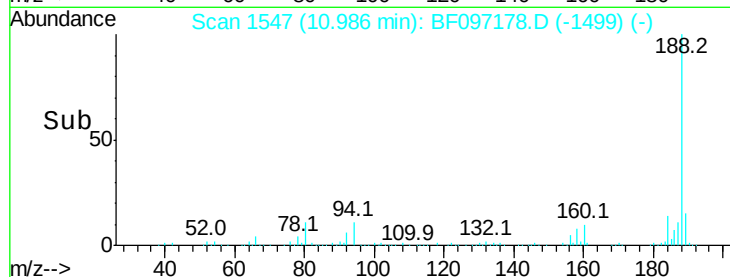
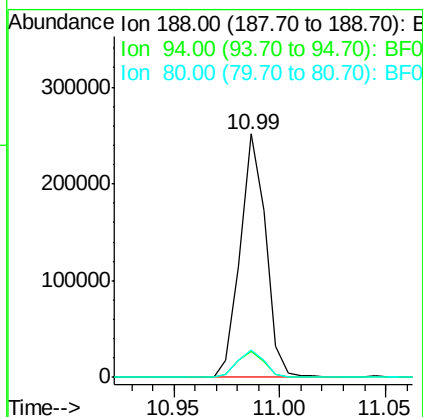
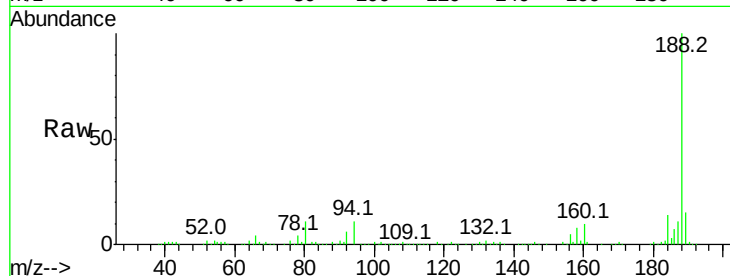
ClientSampleId :

TP-18D24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 211188 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.9  | 9.4   | 14.2   |
| 80        | 11.1  | 10.2  | 15.2   |

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#70

Phenanthrene

Concen: 2.066 ng

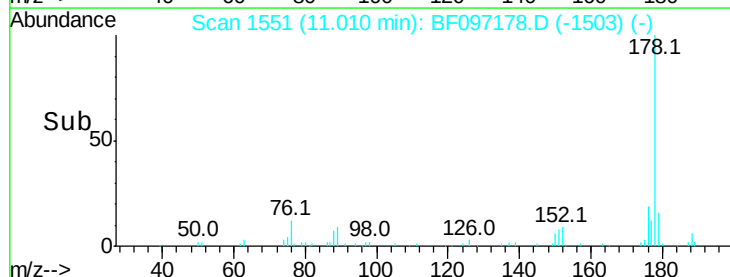
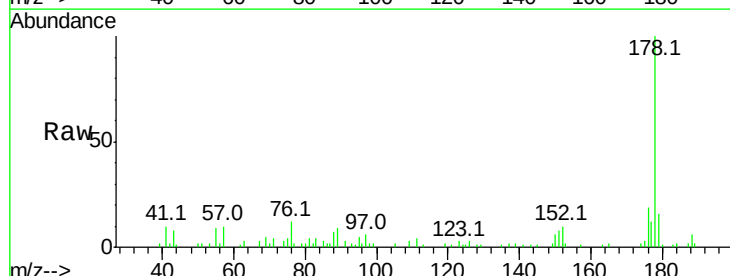
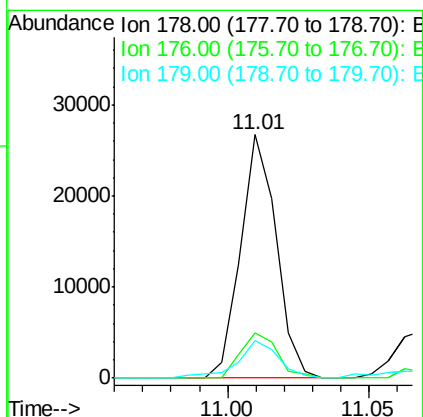
RT: 11.01 min Scan# 1551

Delta R.T. -0.02 min

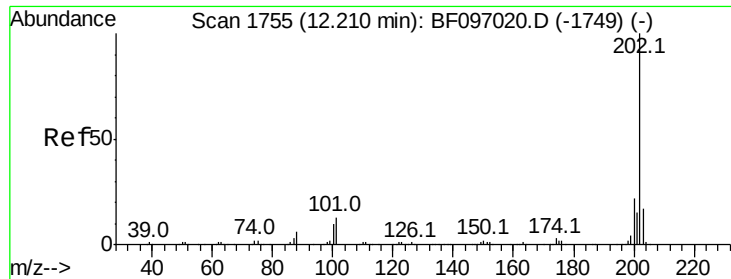
Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 23376 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.7  | 16.2  | 24.4  |
| 179       | 15.7  | 12.6  | 19.0  |







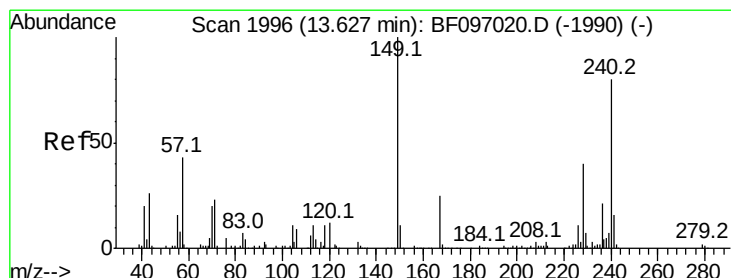
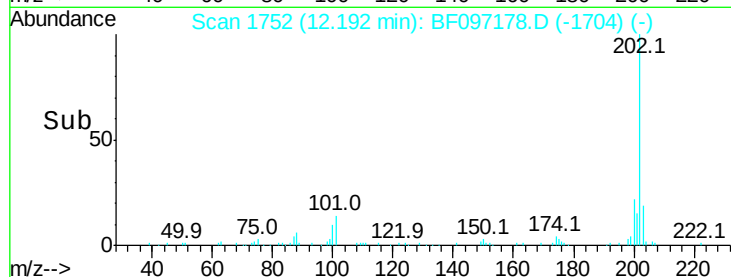
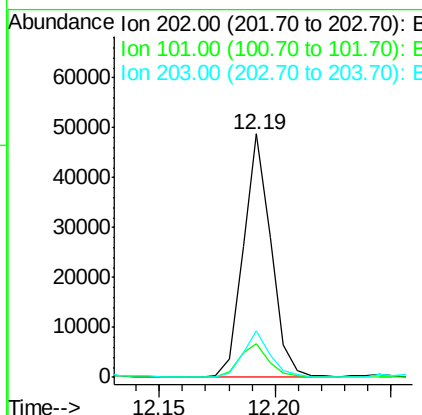
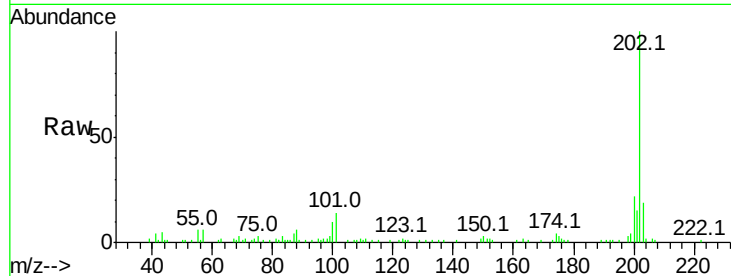
#74  
 Fluoranthene  
 Concen: 3.683 ng  
 RT: 12.19 min Scan# 1752  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-18D24

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.7  | 0.0        | 33.2  |
| 203     | 19.2  | 0.0        | 38.1  |

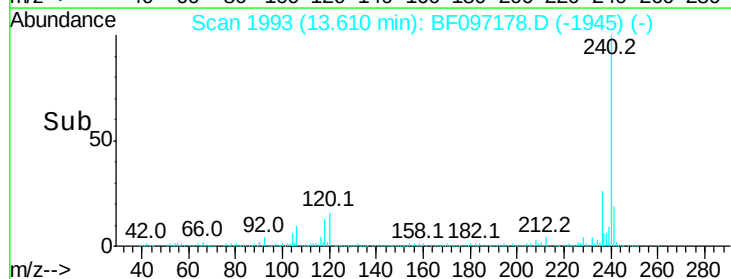
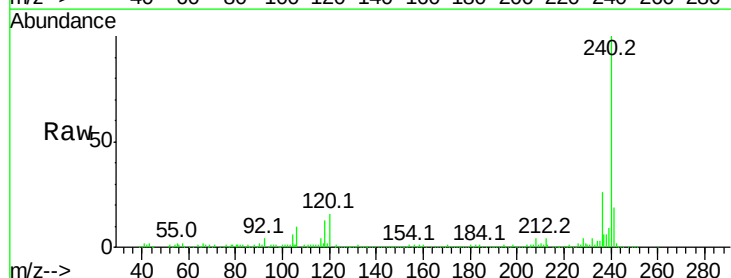
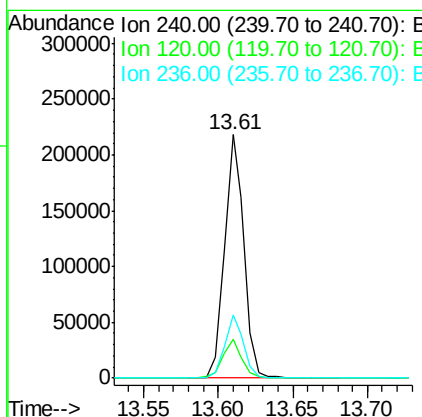
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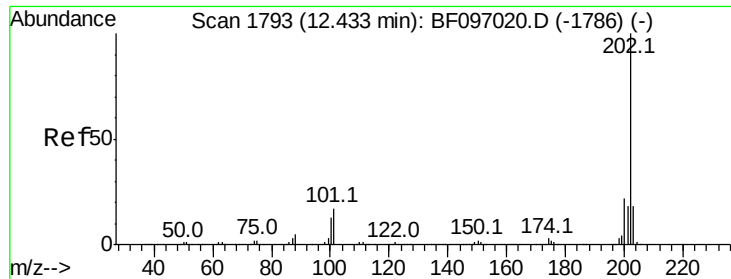
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#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.61 min Scan# 1993  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 16.0  | 5.8        | 8.8#  |
| 236     | 26.0  | 20.5       | 30.7  |





#77

Pvrene

Concen: 2.357 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

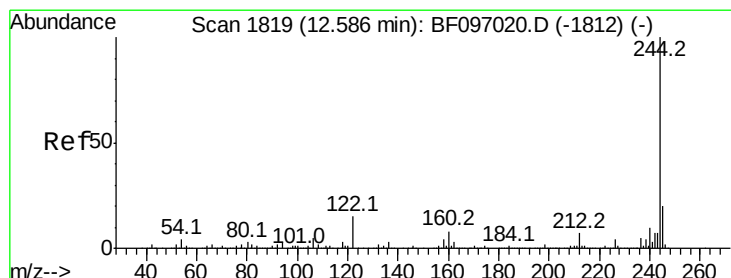
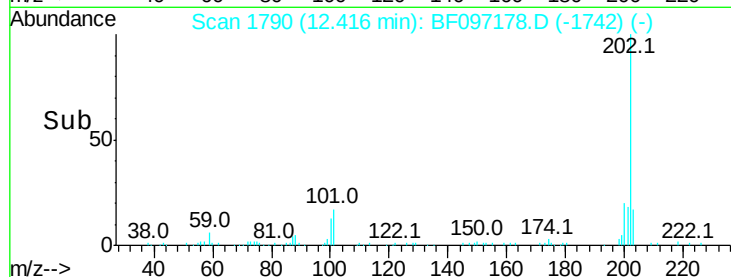
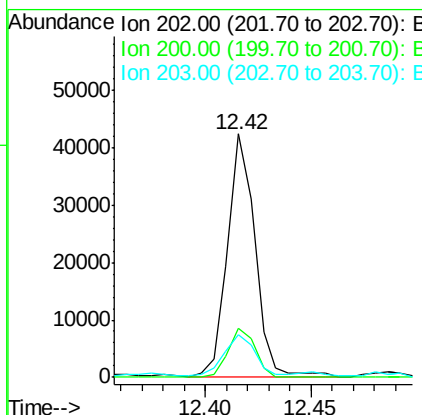
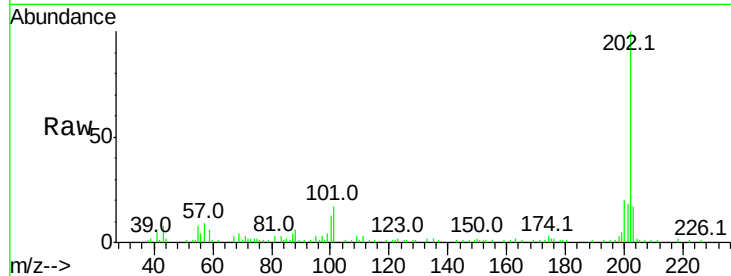
ClientSampled :

TP-18D24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 38601 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.3  | 17.6  | 26.4  |
| 203       | 17.3  | 14.4  | 21.6  |

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#78

Terphenyl-d14

Concen: 47.258 ng

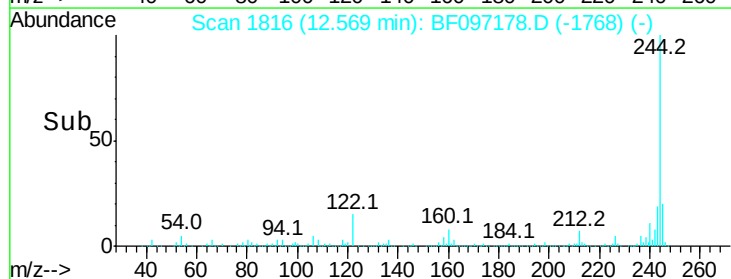
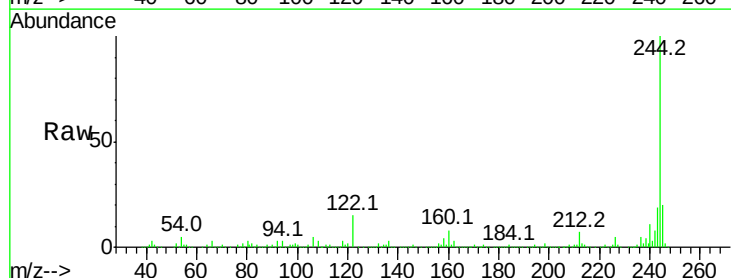
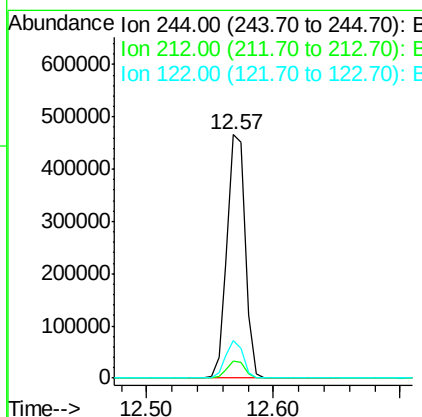
RT: 12.57 min Scan# 1816

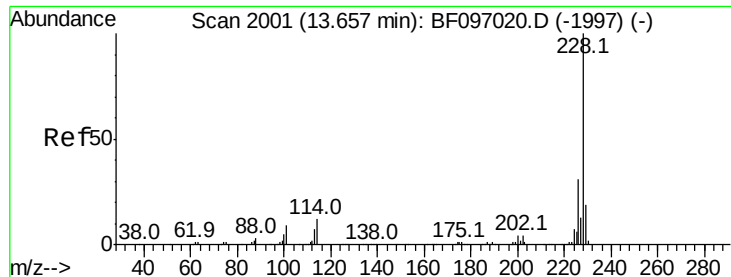
Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 463582 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.9   | 6.0   | 9.0    |
| 122       | 15.4  | 10.3  | 15.5   |





#82

Chrysene

Concen: 2.308 ng/mL

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

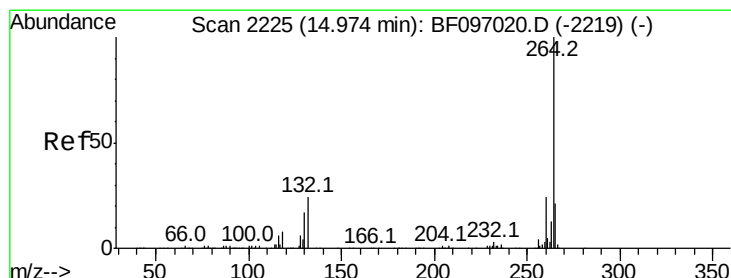
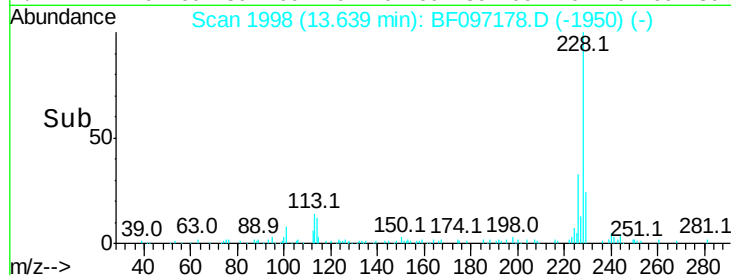
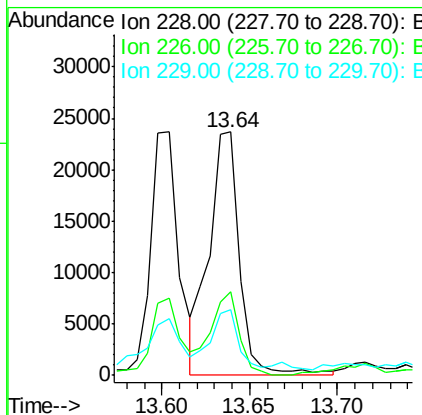
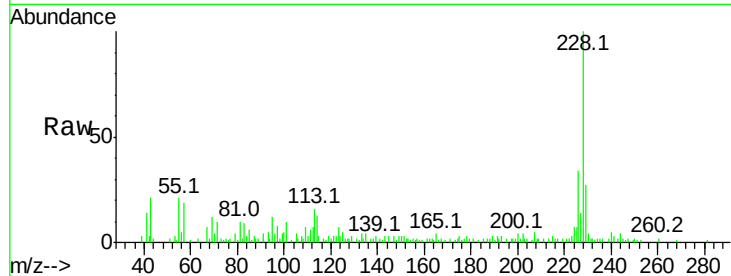
ClientSampleId :

TP-18D24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 29165 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 34.2  | 24.9  | 37.3  |
| 229       | 26.7  | 15.8  | 23.6  |

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#86

Perylene-d12

Concen: 20.000 ng/mL

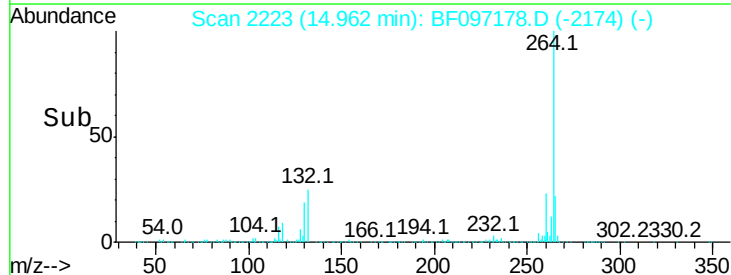
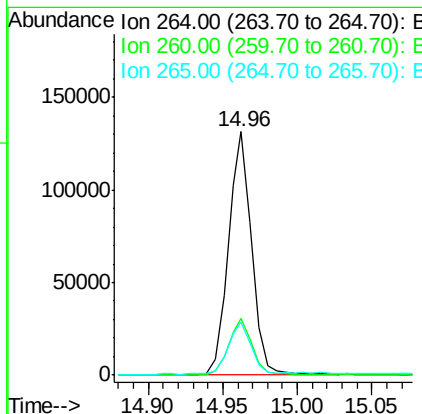
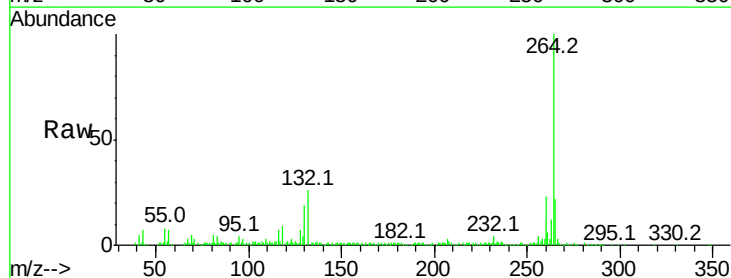
RT: 14.96 min Scan# 2223

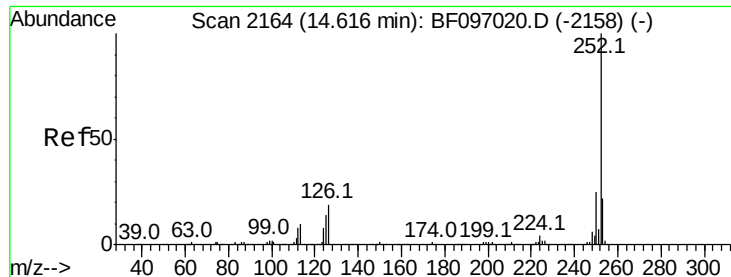
Delta R.T. -0.01 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 144169 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.5  | 19.5  | 29.3   |
| 265       | 21.9  | 17.2  | 25.8   |





#87

Benzo(b)fluoranthene

Concen: 3.615 ng/mL

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

Instrument :

BNA\_F

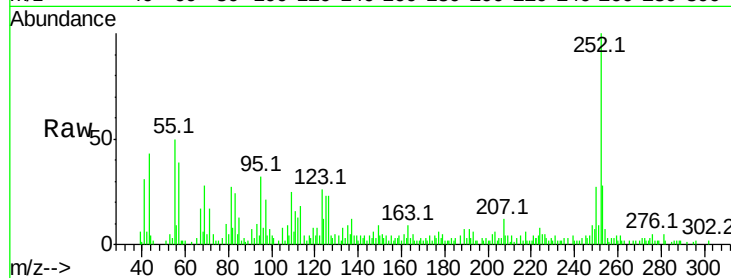
ClientSampled :

TP-18D24

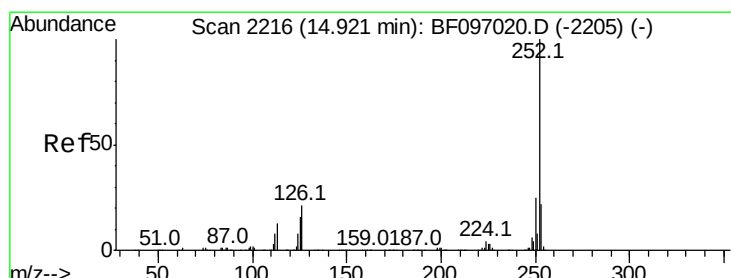
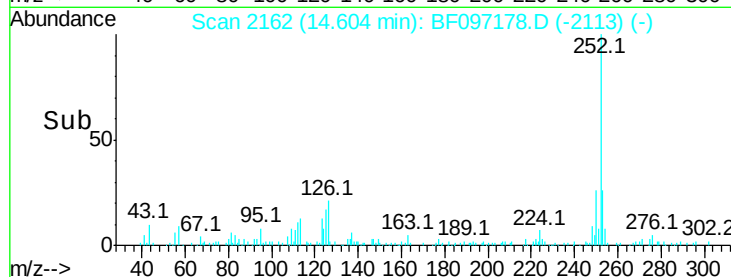
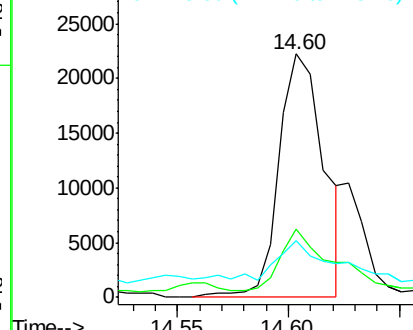
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 31330 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 18.1  | 27.1# |
| 125       | 23.3  | 9.8   | 14.8# |

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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: 2.233 ng/mL

RT: 14.91 min Scan# 2214

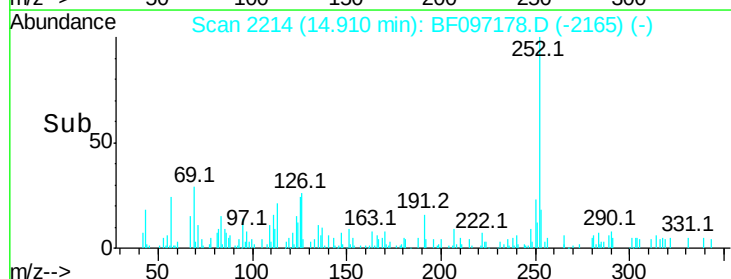
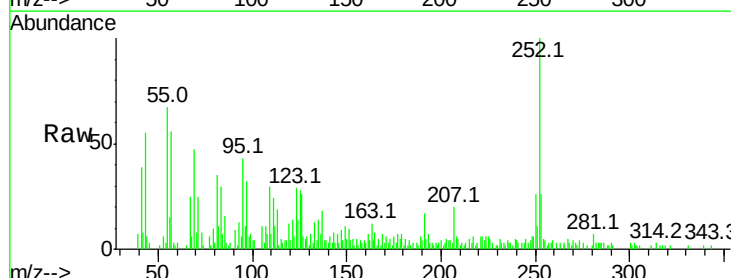
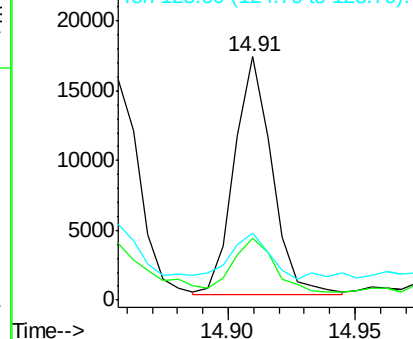
Delta R.T. -0.01 min

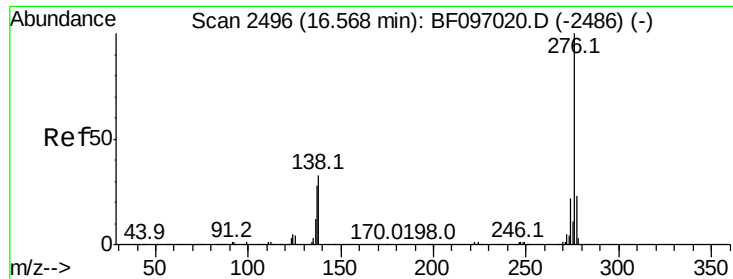
Lab File: BF097178.D

Acq: 29 Jul 2017 2:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 17712 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.6  | 17.5  | 26.3  |
| 125       | 27.6  | 11.0  | 16.4# |

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





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.070 ng  
 RT: 16.54 min Scan# 2492  
 Delta R.T. -0.02 min  
 Lab File: BF097178.D  
 Acq: 29 Jul 2017 2:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-18D24

| Tot Ion | Ion  | Ratio | Resp Lower | Upper |
|---------|------|-------|------------|-------|
| 276     | 100  |       |            |       |
| 277     | 32.3 | 18.6  | 28.0       | #     |
| 138     | 40.9 | 25.4  | 38.0       | #     |

Manual Integrations  
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