

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\  
 Data File : BF097288.D  
 Acq On : 2 Aug 2017 22:07  
 Operator : SJ/JU  
 Sample : I4540-09 10X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11948

Manual Integrations  
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Sohil  
 8/3/2017 6:08:16 PM

Quant Time: Aug 03 00:21:24 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   | 6.45  | 152  | 110536   | 20.00   | ng    | -0.05    |
| 21) Naphthalene-d8          | 7.73  | 136  | 460439   | 20.00   | ng    | -0.05    |
| 38) Acenaphthene-d10        | 9.47  | 164  | 208106   | 20.00   | ng    | -0.06    |
| 63) Phenanthrene-d10        | 10.95 | 188  | 323390   | 20.00   | ng    | -0.05    |
| 75) Chrysene-d12            | 13.58 | 240  | 184221   | 20.00   | ng    | -0.05    |
| 86) Perylene-d12            | 14.92 | 264  | 182063   | 20.00   | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.05  | 112  | 92858    | 12.66   | ng    | -0.05    |
| 7) Phenol-d6                | 6.12  | 99   | 114350   | 13.66   | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.02  | 82   | 61708    | 7.86    | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.26 | 330  | 16741    | 10.18   | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 8.81  | 172  | 106708   | 8.70    | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.53 | 244  | 65504    | 7.25    | ng    | -0.05    |
| Target Compounds            |       |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 7.76  | 128  | 500453   | 23.057  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.45  | 142  | 117674   | 8.563   | ng    | 98       |
| 45) 1,1'-Biphenyl           | 8.91  | 154  | 35611    | 2.003   | ng    | 97       |
| 51) Acenaphthene            | 9.51  | 154  | 411205   | 34.770  | ng    | 97       |
| 54) Dibenzofuran            | 9.68  | 168  | 284135   | 18.037  | ng    | 99       |
| 57) Fluorene                | 10.02 | 166  | 368839   | 31.153  | ng    | 97       |
| 70) Phenanthrene            | 10.99 | 178  | 1908950  | 110.170 | ng    | 100      |
| 71) Anthracene              | 11.03 | 178  | 889451   | 50.119  | ng    | 100      |
| 72) Carbazole               | 11.19 | 167  | 365160   | 20.922  | ng    | 97       |
| 74) Fluoranthene            | 12.17 | 202  | 1616630  | 95.237  | ng    | 99       |
| 77) Pyrene                  | 12.39 | 202  | 1339564  | 88.821  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.57 | 228  | 735304   | 61.687  | ng    | 99       |
| 82) Chrysene                | 13.60 | 228  | 599073   | 51.470  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.13 | 276  | 249283   | 24.977  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.57 | 252  | 742336m  | 67.829  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.59 | 252  | 213690m  | 20.490  | ng    |          |
| 89) Benzo(a)pyrene          | 14.87 | 252  | 527244   | 52.638  | ng    | 98       |
| 90) Dibenzo(a,h)anthracene  | 16.13 | 278  | 65682m   | 7.996   | ng    |          |
| 91) Benzo(a,h,i)perylene    | 16.49 | 276  | 230071   | 26.710  | ng    | 98       |

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

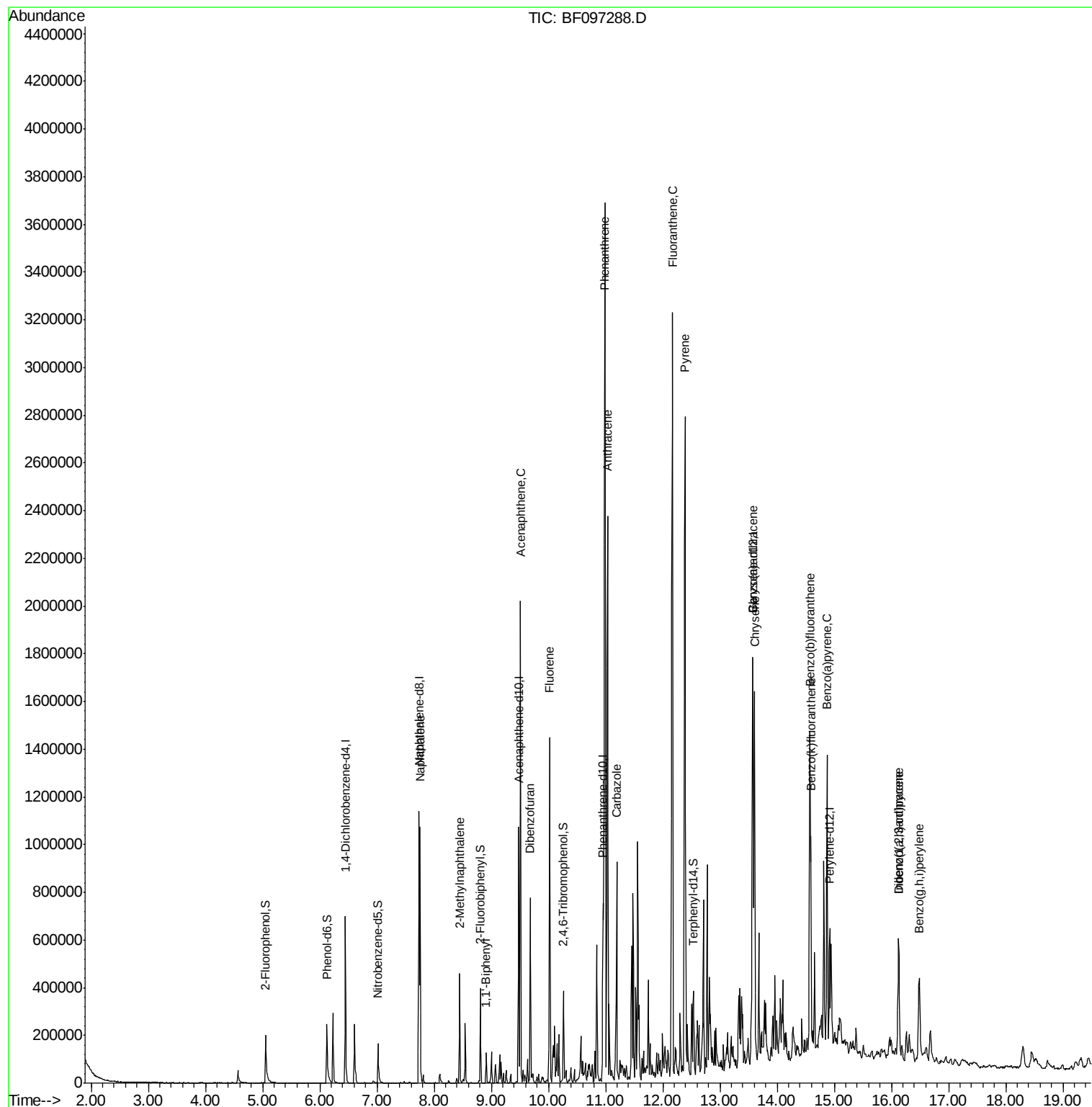
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\  
Data File : BF097288.D  
Acq On : 2 Aug 2017 22:07  
Operator : SJ/JU  
Sample : I4540-09 10X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

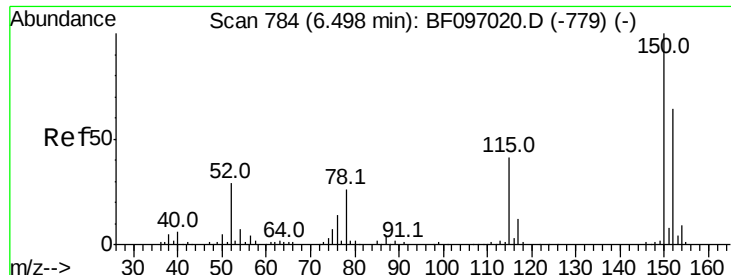
Instrument :  
BNA\_F  
ClientSampleId :  
72-11948

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Quant Time: Aug 03 00:21:24 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





#1

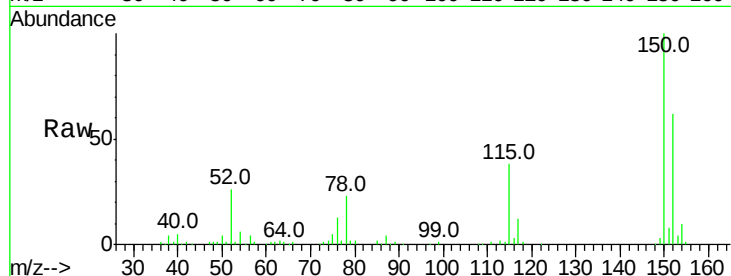
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.45 min Scan# 776  
Delta R.T. -0.05 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

Instrument :  
BNA\_F  
ClientSampled :  
72-11948

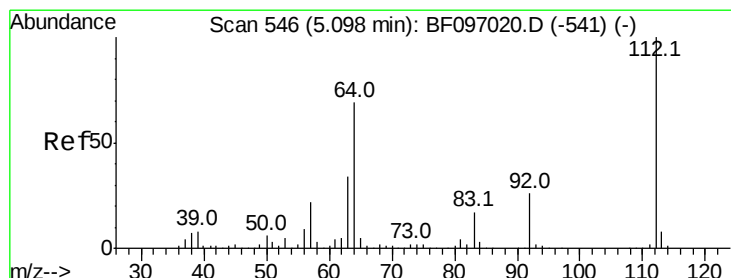
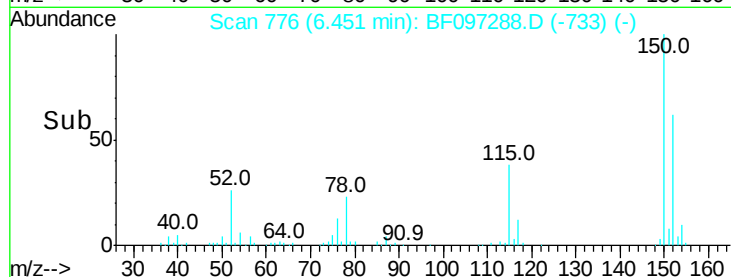
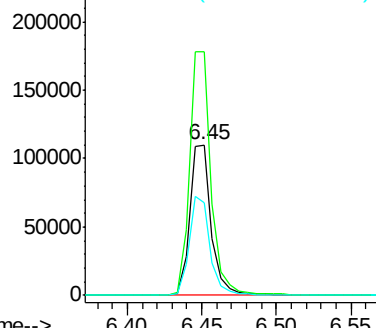
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.5 | 126.2 | 189.2 |
| 115     | 61.5  | 52.2  | 78.2  |

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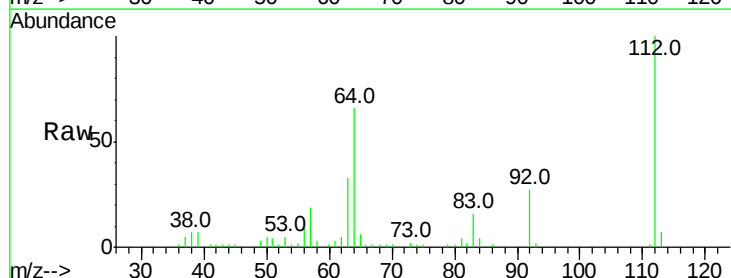
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



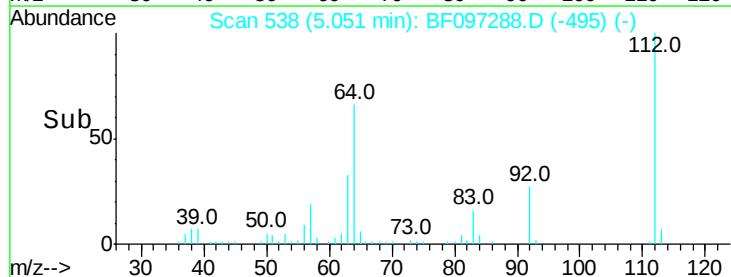
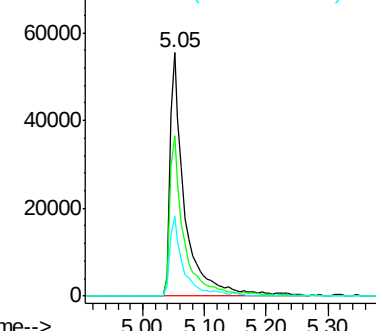
#5

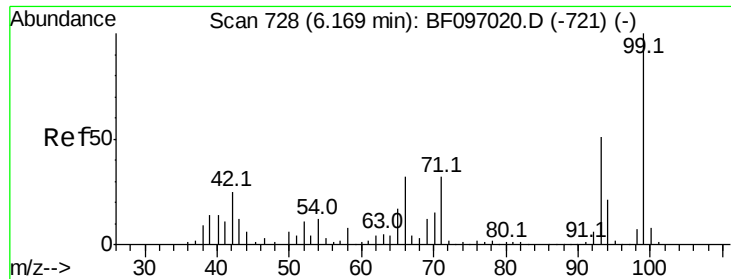
2-Fluorophenol  
Concen: 12.664 ng  
RT: 5.05 min Scan# 538  
Delta R.T. -0.05 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 46.0  | 69.0  |
| 63      | 32.8  | 23.4  | 35.0  |



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: 13.660 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

ClientSampleId :

72-11948

Tot Ion: 99 Resp: 114350

Ion Ratio Lower Upper

99 100

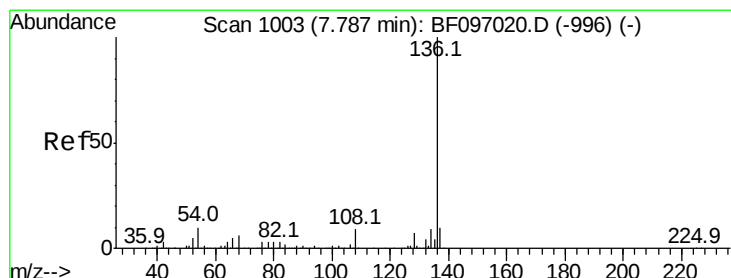
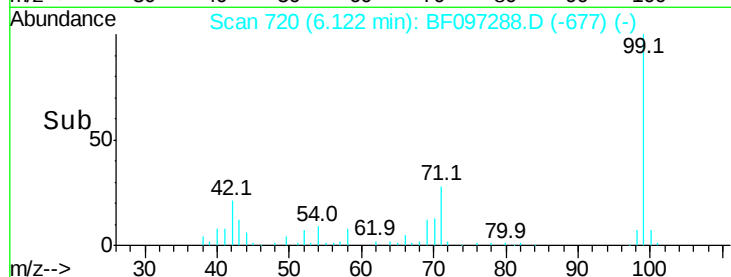
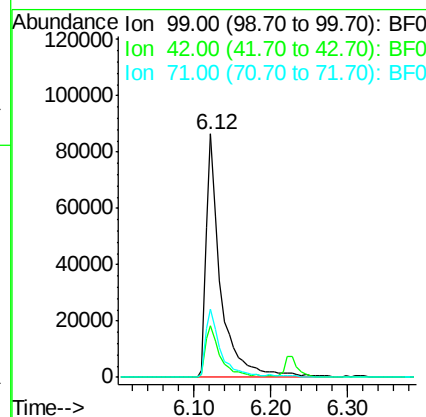
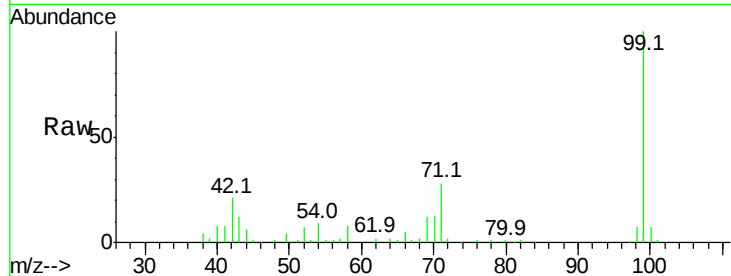
42 21.4 13.5 20.3#

71 28.3 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.73 min Scan# 994

Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Tgt Ion:136 Resp: 460439

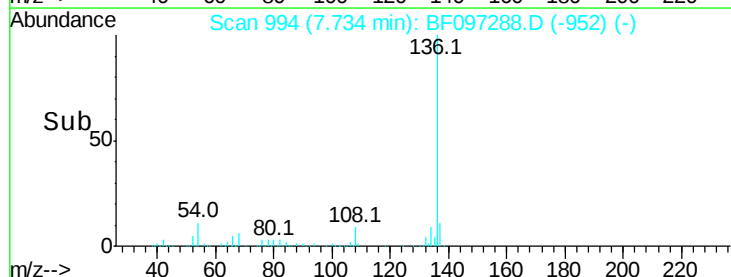
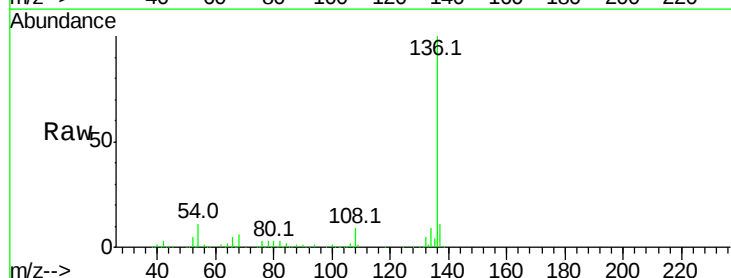
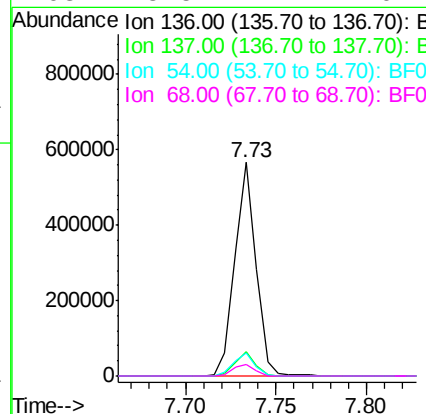
Ion Ratio Lower Upper

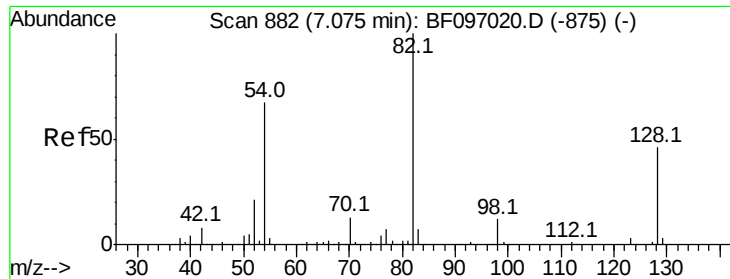
136 100

137 11.2 8.5 12.7

54 10.6 4.9 7.3#

68 5.5 4.1 6.1





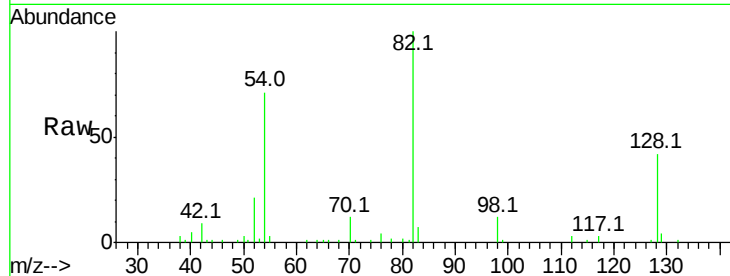
#23  
 Nitrobenzene-d5  
 Concen: 7.862 ng  
 RT: 7.02 min Scan# 872  
 Delta R.T. -0.06 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11948

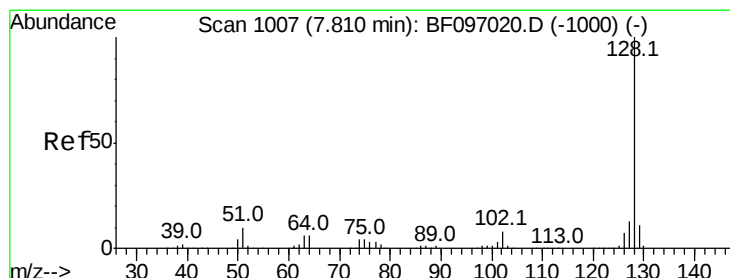
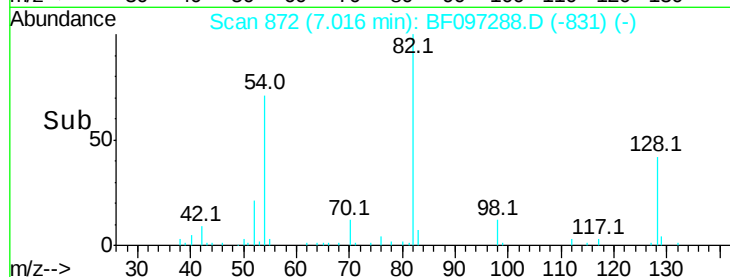
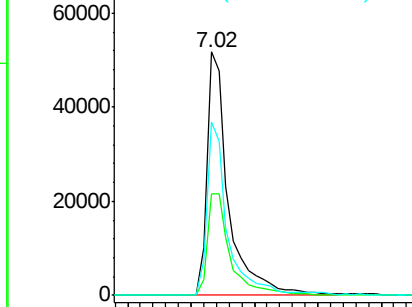
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.6  | 34.0  | 51.0  |
| 54      | 71.4  | 42.2  | 63.2# |

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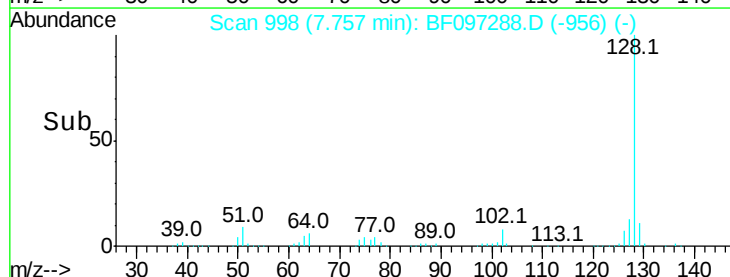
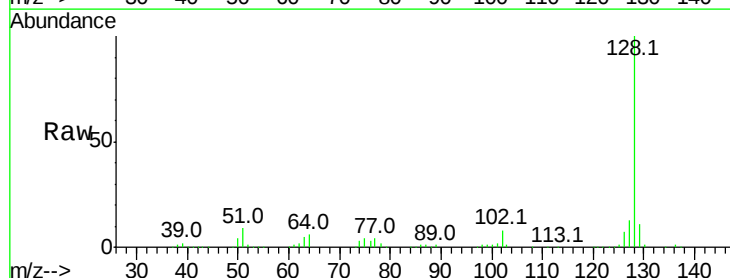
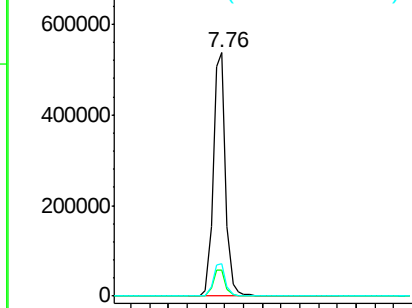
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

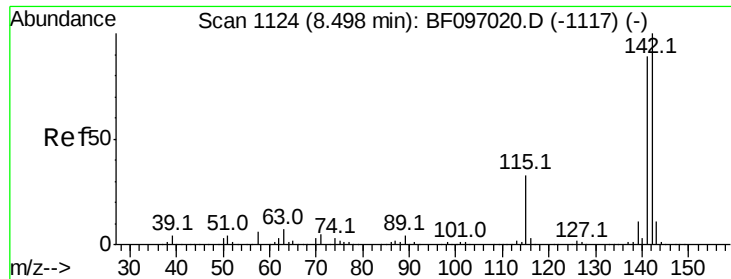


#31  
 Naphthalene  
 Concen: 23.057 ng  
 RT: 7.76 min Scan# 998  
 Delta R.T. -0.05 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.8  | 9.0   | 13.6  |
| 127     | 13.3  | 10.8  | 16.2  |

Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E





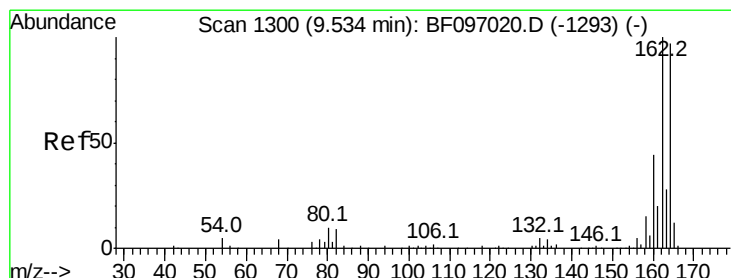
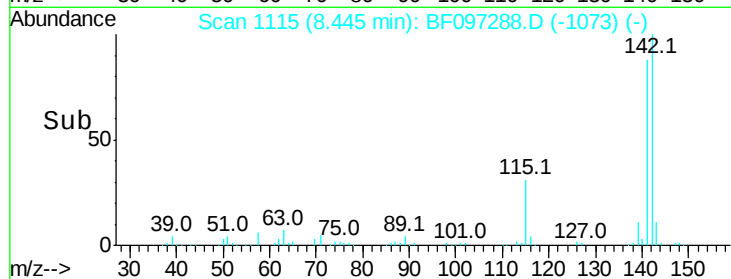
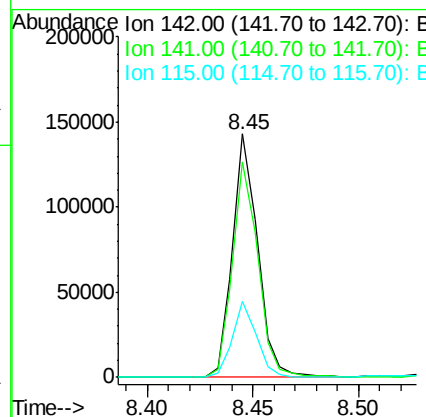
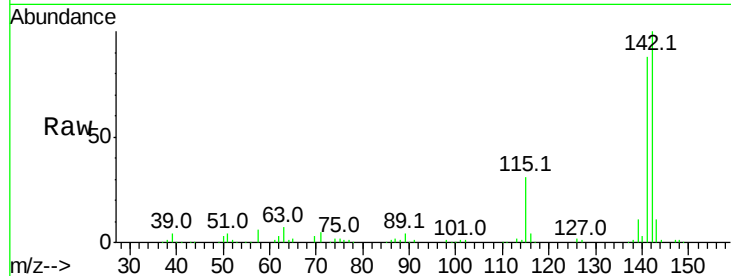
#37  
2-Methylnaphthalene  
Concen: 8.563 ng  
RT: 8.45 min Scan# 1115  
Delta R.T. -0.05 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
72-11948

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 117674 |       |       |
| 141     | 88.4  | 71.3   | 106.9 |       |
| 115     | 31.0  | 27.1   | 40.7  |       |

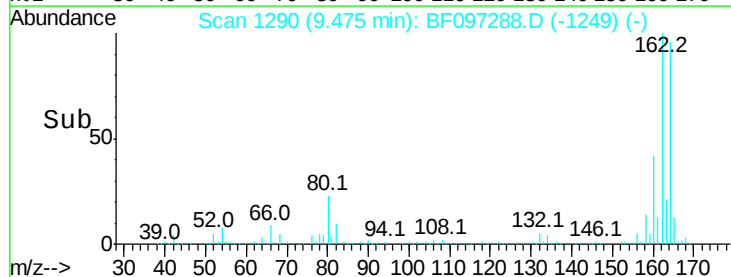
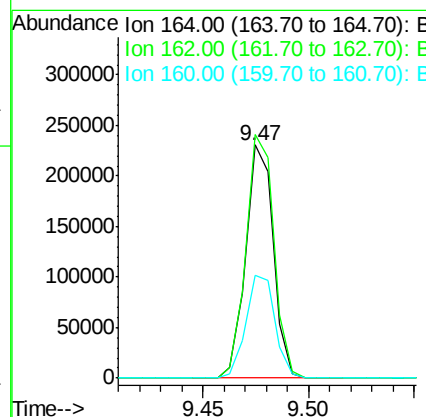
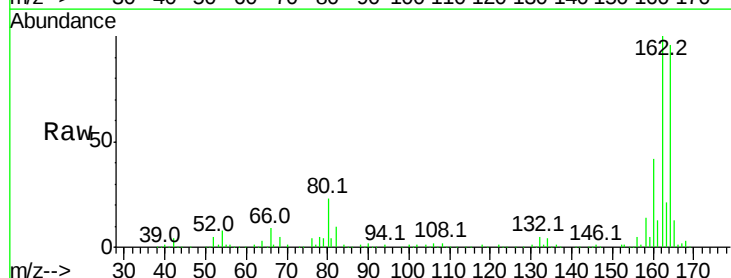
Manual Integrations  
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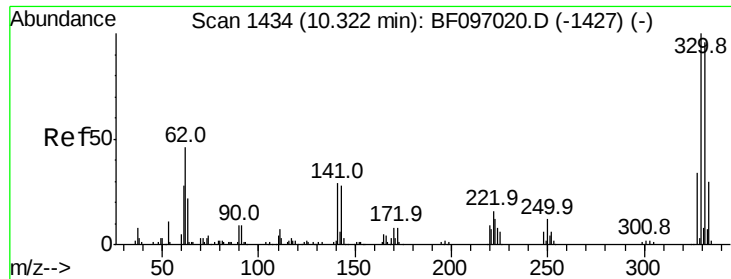
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.47 min Scan# 1290  
Delta R.T. -0.06 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 208106 |       |       |
| 162     | 104.4 | 82.6   | 123.8 |       |
| 160     | 44.0  | 36.2   | 54.2  |       |





#41

2,4,6-Tribromophenol

Concen: 10.182 ng

RT: 10.26 min Scan# 1424

Delta R.T. -0.06 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

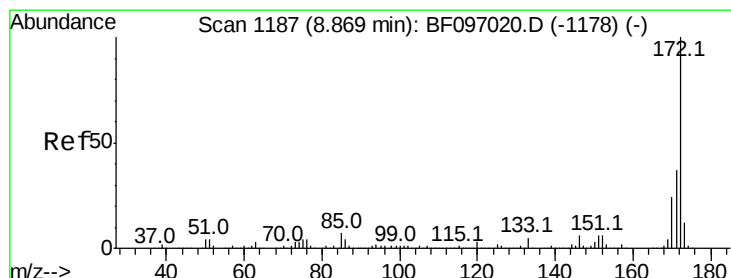
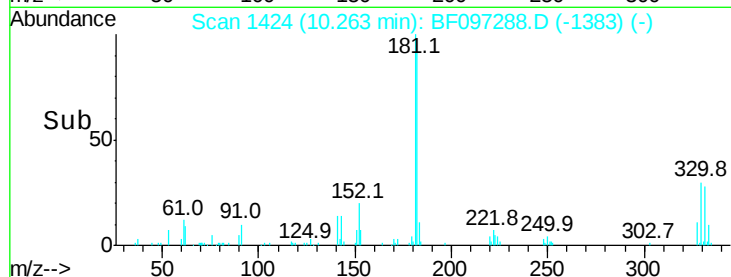
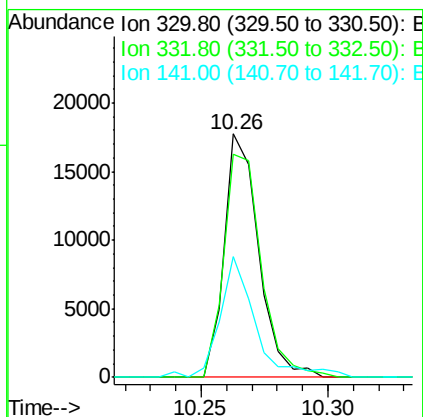
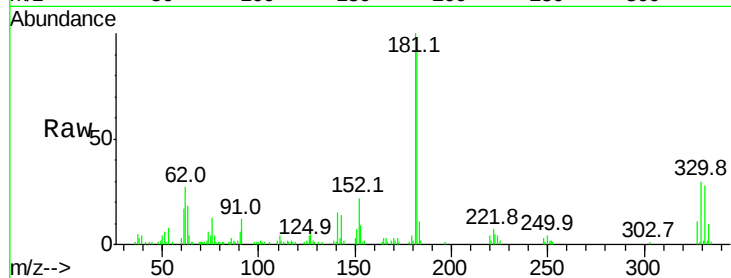
ClientSampleId :

72-11948

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 16741 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 100.1 | 76.6  | 115.0 |
| 141       | 51.6  | 31.4  | 47.2# |

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#44

2-Fluorobiphenyl

Concen: 8.702 ng

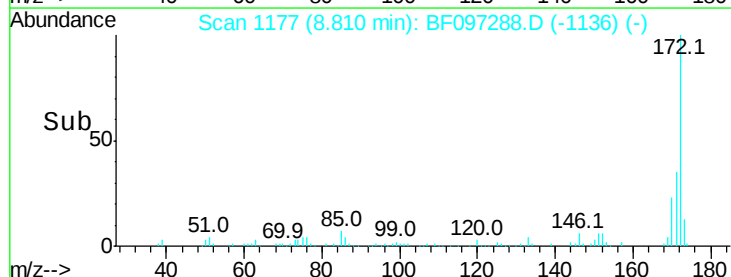
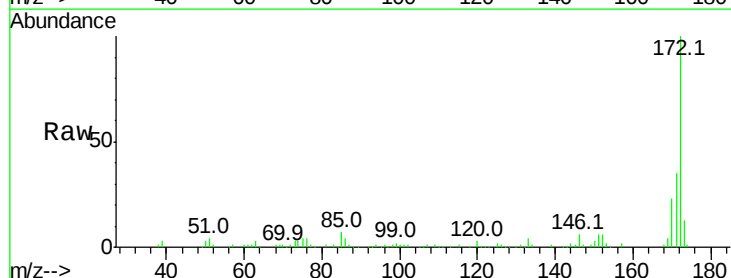
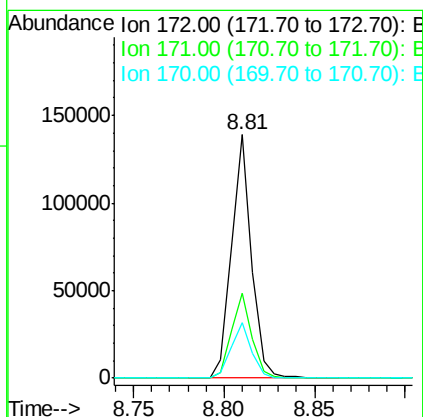
RT: 8.81 min Scan# 1177

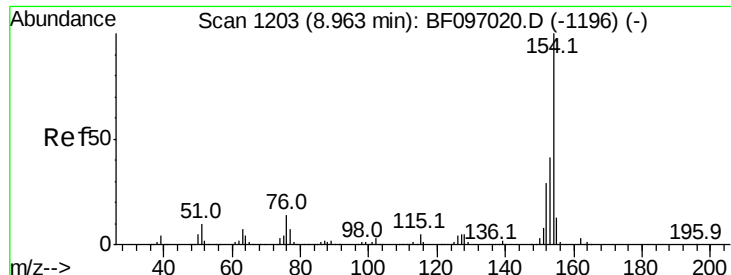
Delta R.T. -0.06 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 106708 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 34.9  | 29.6  | 44.4   |
| 170       | 23.0  | 19.8  | 29.8   |





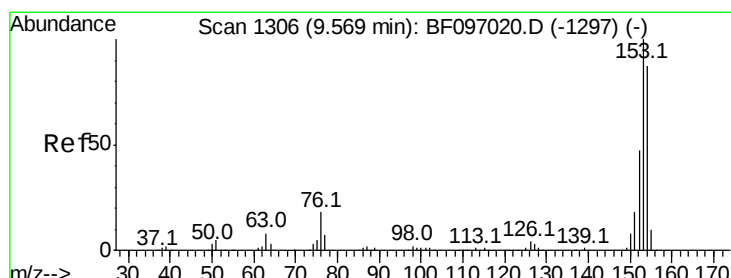
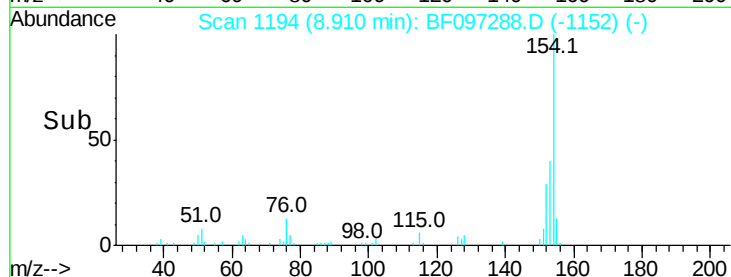
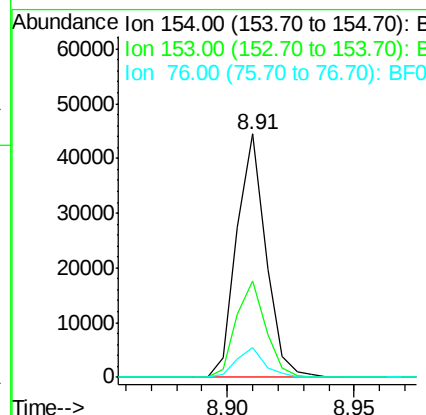
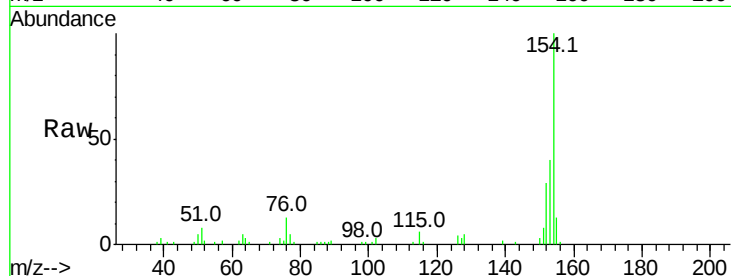
#45  
 1,1'-Biphenyl  
 Concen: 2.003 ng  
 RT: 8.91 min Scan# 1194  
 Delta R.T. -0.05 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11948

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 39.5  | 21.2 | 61.2  |       |
| 76      | 12.5  | 0.0  | 29.9  |       |

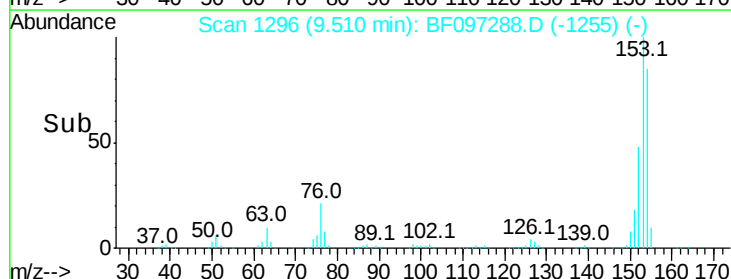
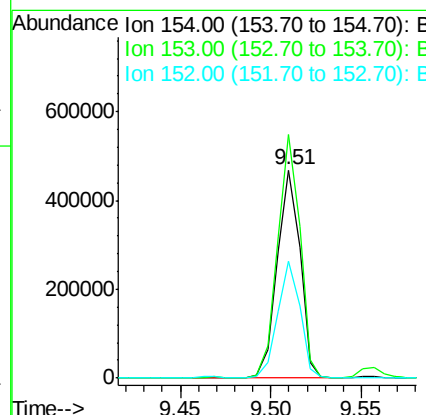
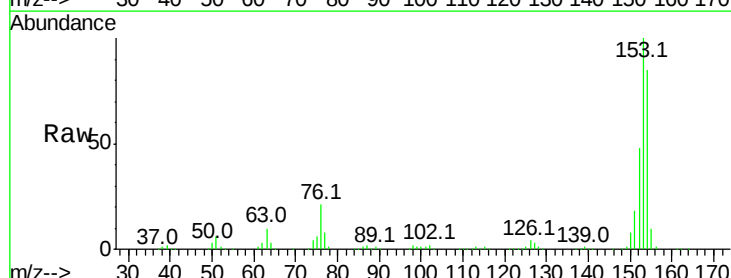
Manual Integrations  
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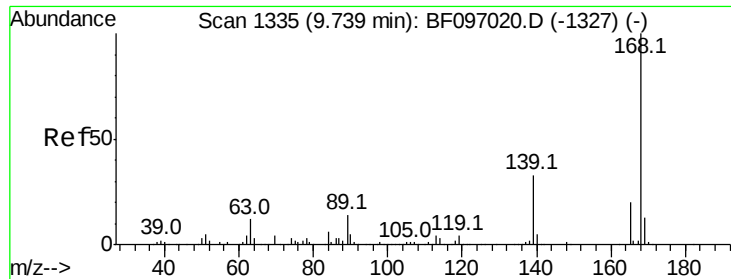
Sohil  
 8/3/2017 6:08:16 PM



#51  
 Acenaphthene  
 Concen: 34.770 ng  
 RT: 9.51 min Scan# 1296  
 Delta R.T. -0.06 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 117.1 | 90.5 | 135.7 |       |
| 152     | 56.0  | 43.6 | 65.4  |       |





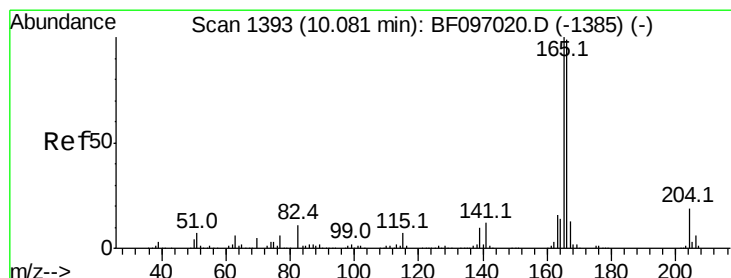
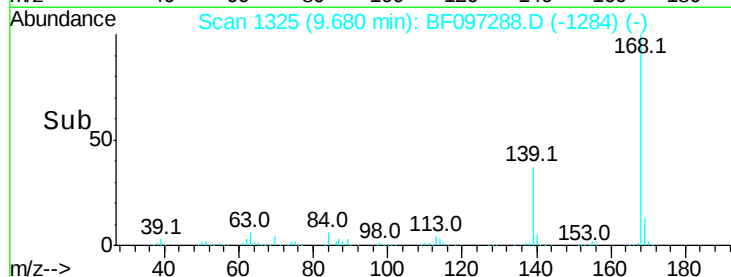
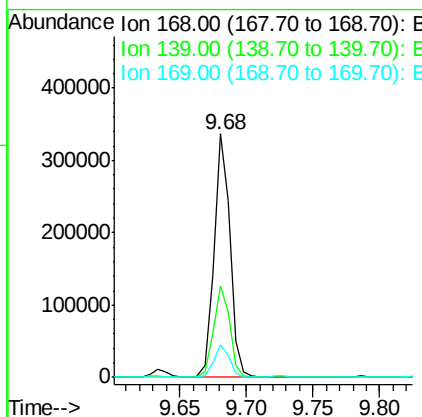
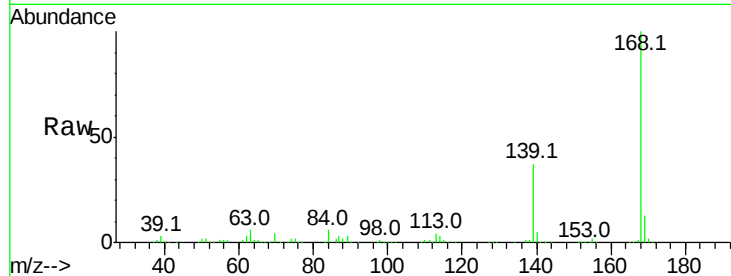
#54  
Dibenzenofuran  
Concen: 18.037 ng  
RT: 9.68 min Scan# 1325  
Delta R.T. -0.06 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

Instrument :  
BNA\_F  
ClientSampled :  
72-11948

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 284135 |       |       |
| 139     | 37.3  |        | 30.6  | 45.8  |
| 169     | 13.2  |        | 10.8  | 16.2  |

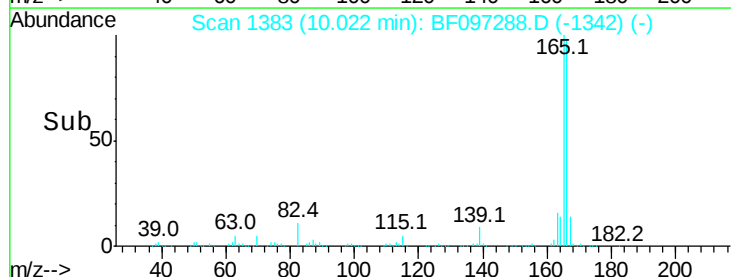
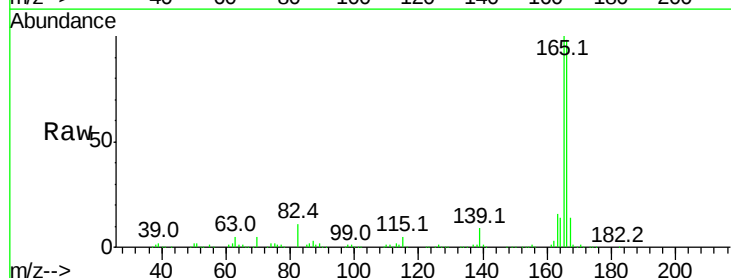
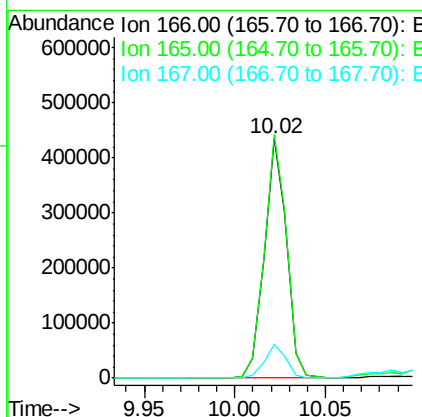
Manual Integrations  
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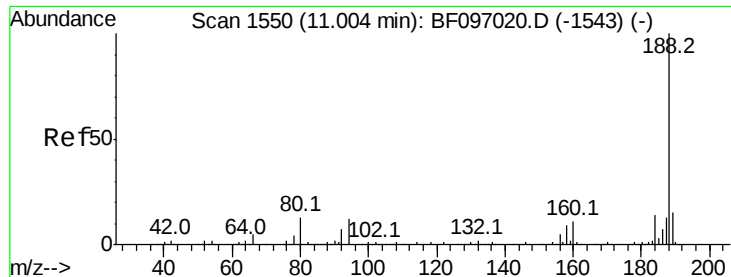
Sohil  
8/3/2017 6:08:16 PM



#57  
Fluorene  
Concen: 31.153 ng  
RT: 10.02 min Scan# 1383  
Delta R.T. -0.06 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 368839 |       |       |
| 165     | 101.8 |        | 78.8  | 118.2 |
| 167     | 14.1  |        | 10.6  | 16.0  |





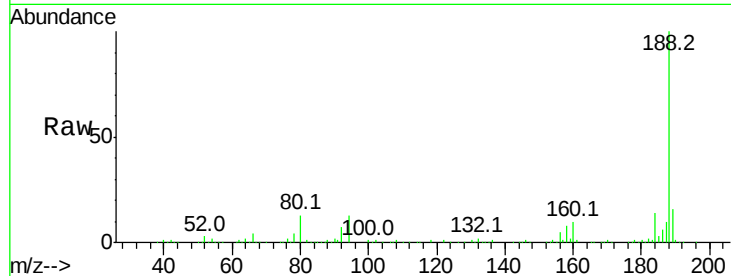
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.95 min Scan# 1541  
Delta R.T. -0.05 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
72-11948

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 323390 |       |       |
| 94      | 13.1  |        | 9.4   | 14.2  |
| 80      | 12.5  |        | 10.2  | 15.2  |

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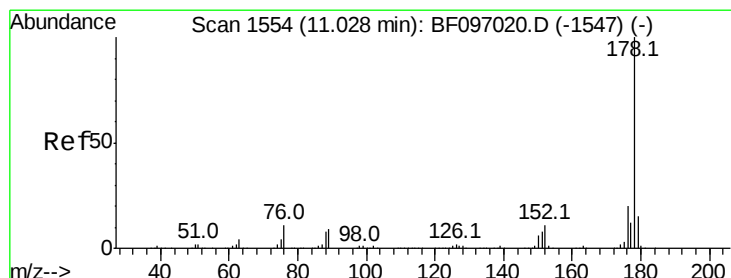
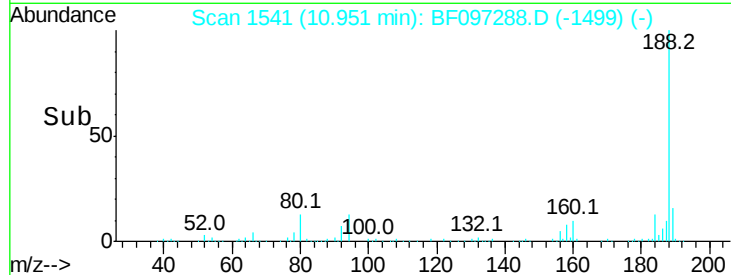
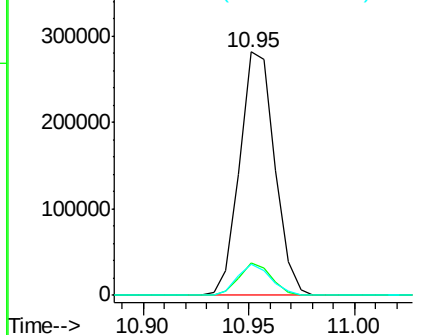
Sohil  
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



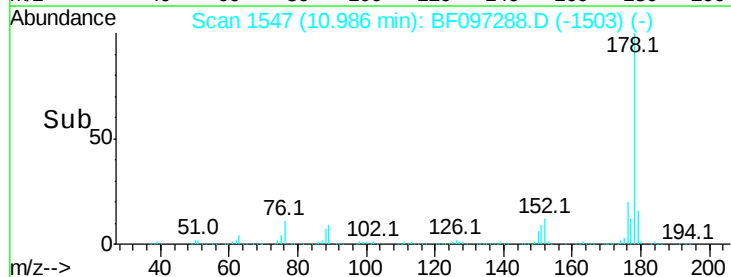
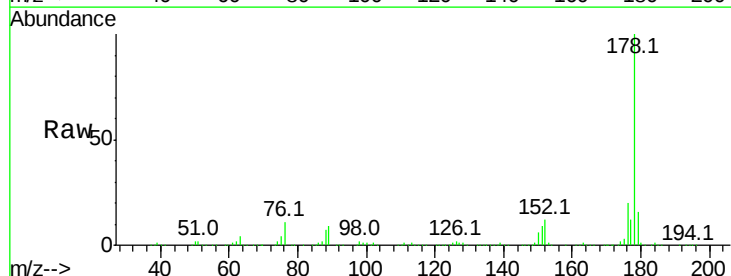
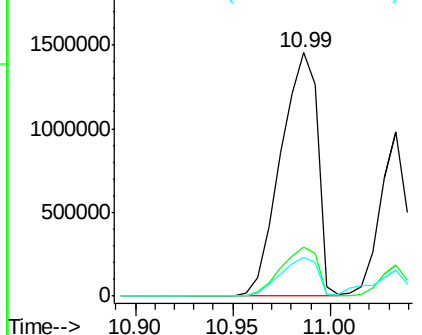
#70  
Phenanthrene  
Concen: 110.170 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.04 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

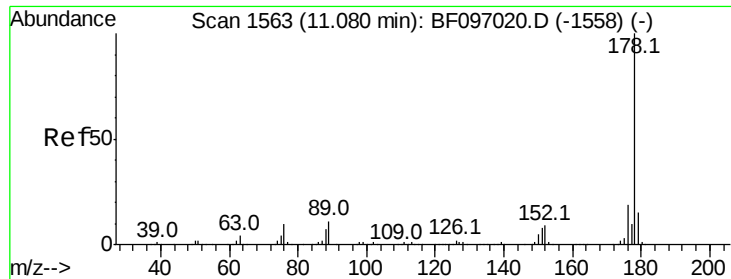
| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 1908950 |       |       |
| 176     | 20.3  |         | 16.2  | 24.4  |
| 179     | 15.8  |         | 12.6  | 19.0  |

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





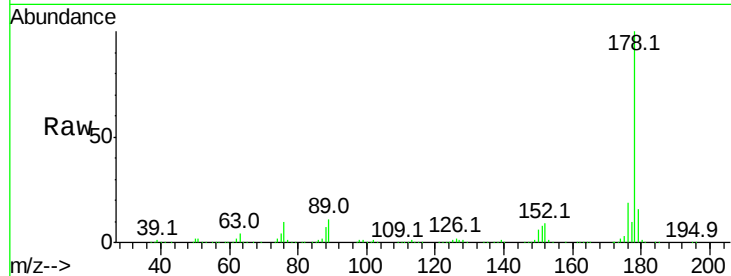
#71  
 Anthracene  
 Concen: 50.119 ng  
 RT: 11.03 min Scan# 1555  
 Delta R.T. -0.05 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11948

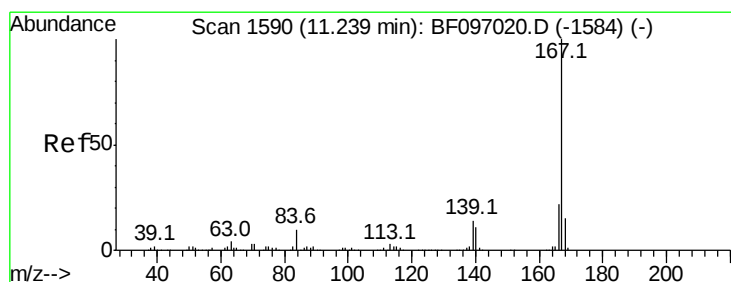
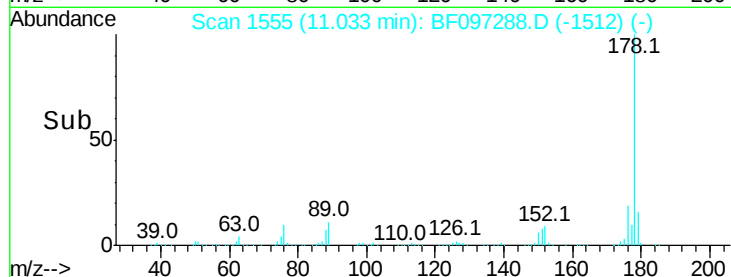
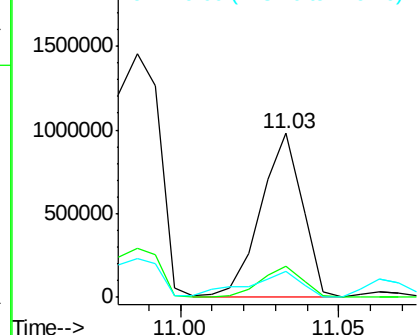
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 15.8  | 23.8  |
| 179     | 15.9  | 12.7  | 19.1  |

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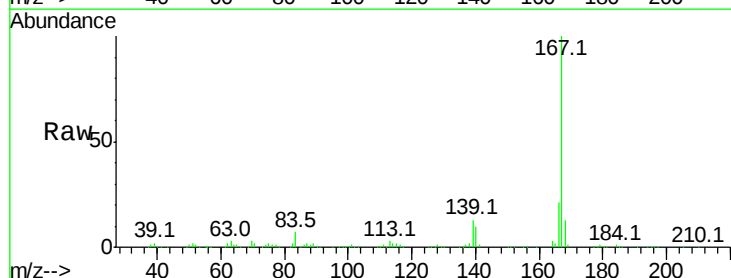


Abundance Ion 178.00 (177.70 to 178.70): E  
 2000000  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

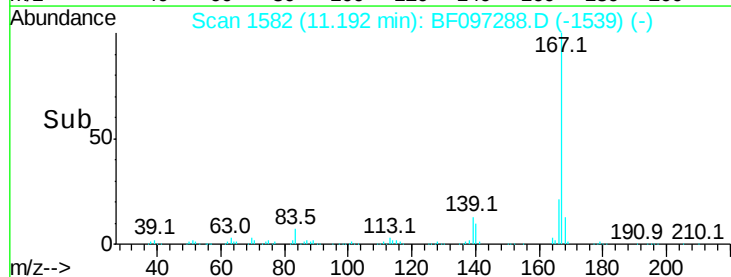
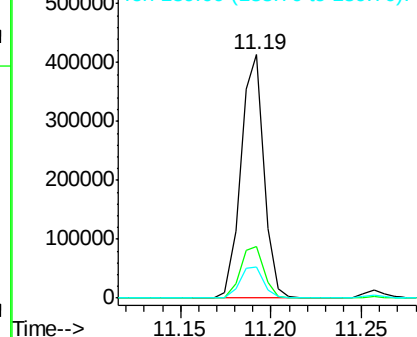


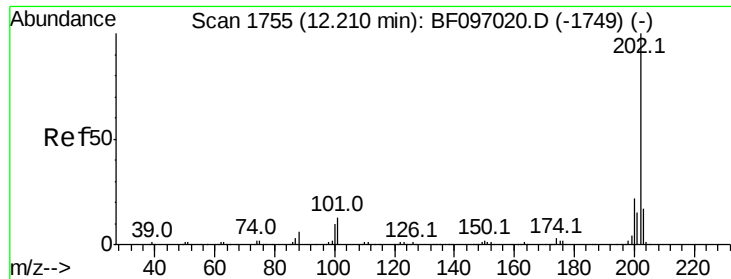
#72  
 Carbazole  
 Concen: 20.922 ng  
 RT: 11.19 min Scan# 1582  
 Delta R.T. -0.05 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.2  | 18.1  | 27.1  |
| 139     | 12.9  | 11.7  | 17.5  |



Abundance Ion 167.00 (166.70 to 167.70): E  
 500000  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 95.237 ng

RT: 12.17 min Scan# 1748

Delta R.T. -0.04 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

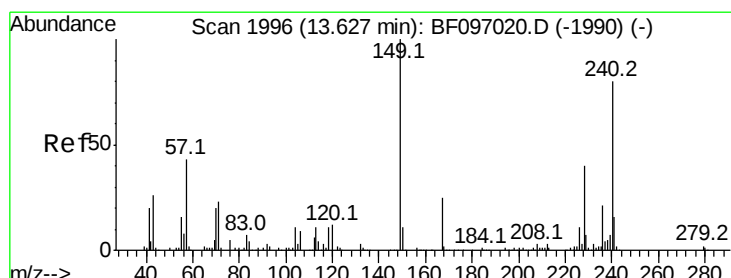
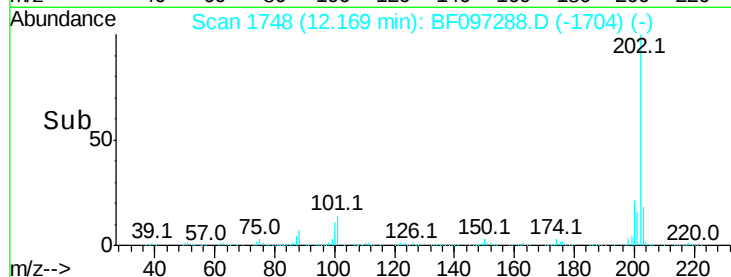
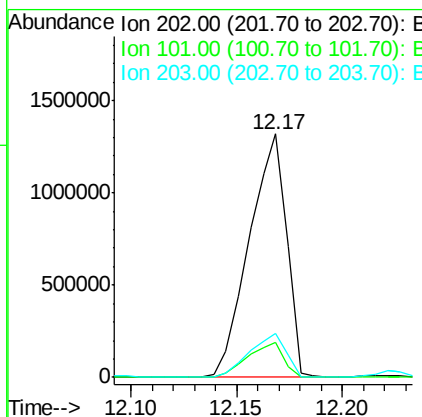
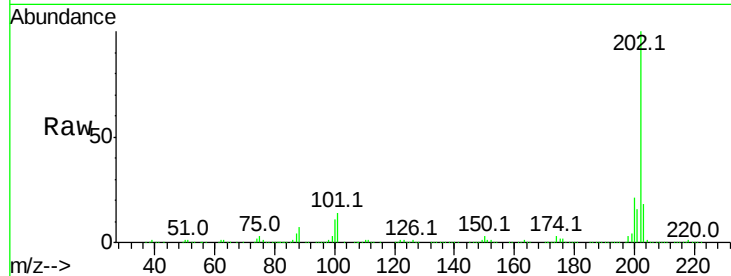
ClientSampleId :

72-11948

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1616630 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 14.2  | 0.0   | 33.2    |
| 203       | 17.8  | 0.0   | 38.1    |

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#75

Chrysene-d12

Concen: 20.000 ng

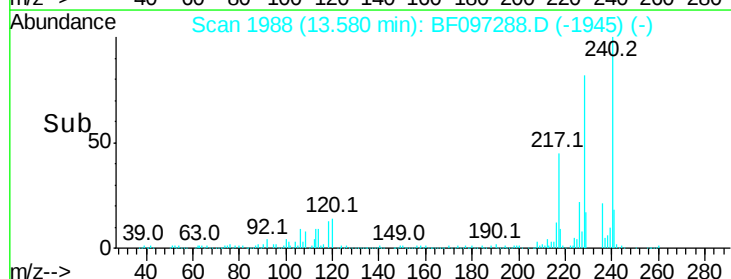
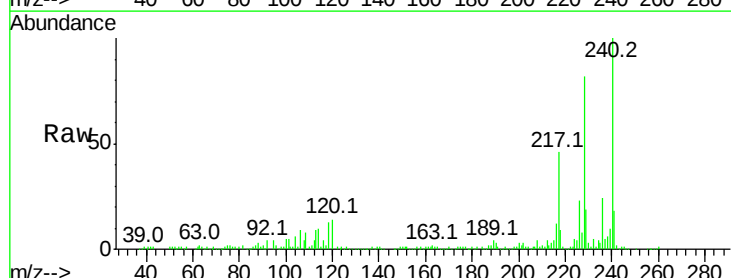
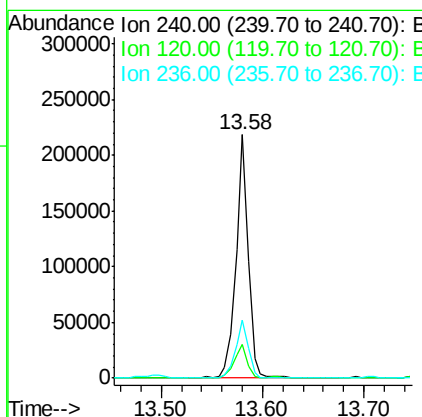
RT: 13.58 min Scan# 1988

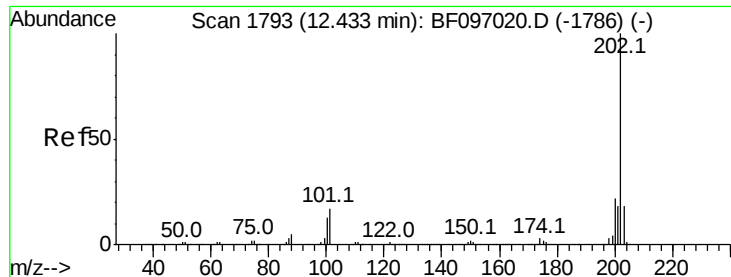
Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 184221 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.9  | 5.8   | 8.8#   |
| 236       | 23.8  | 20.5  | 30.7   |





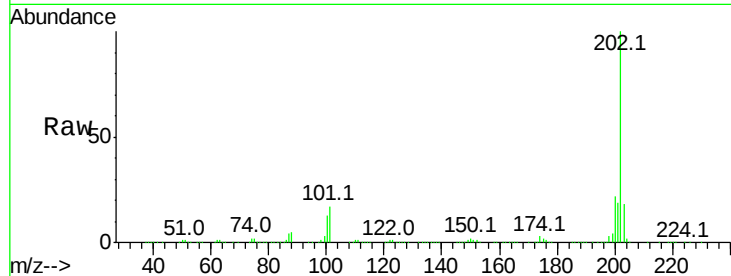
#77  
Pvrene  
Concen: 88.821 ng  
RT: 12.39 min Scan# 1786  
Delta R.T. -0.04 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
72-11948

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.6  | 26.4  |
| 203     | 17.5  | 14.4  | 21.6  |

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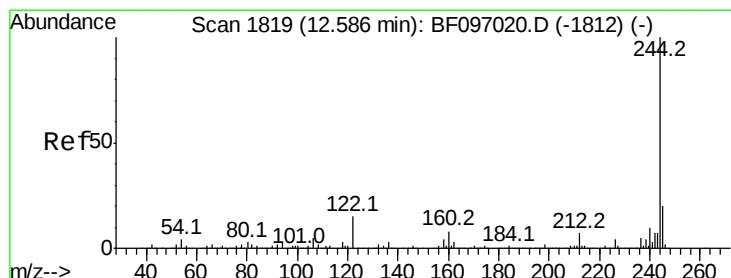
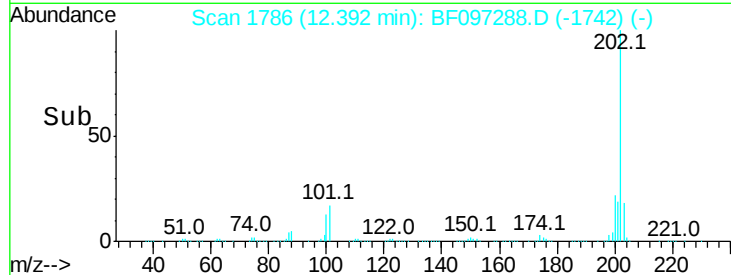
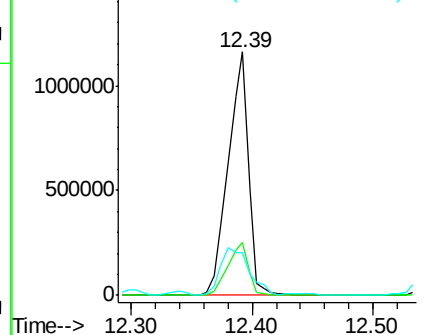


Abundance

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: 7.250 ng  
RT: 12.53 min Scan# 1810  
Delta R.T. -0.05 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

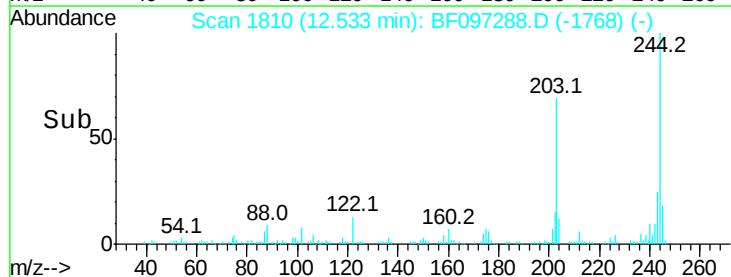
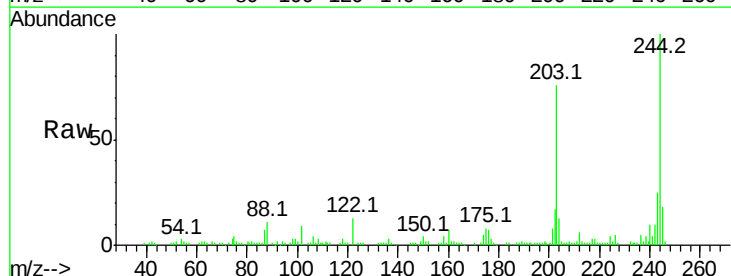
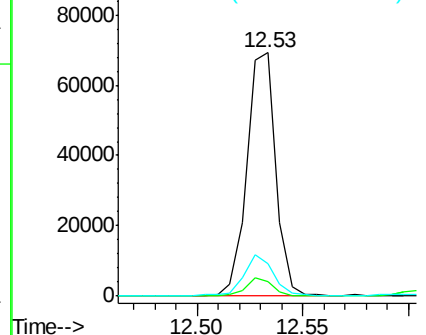
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.1   | 6.0   | 9.0   |
| 122     | 13.1  | 10.3  | 15.5  |

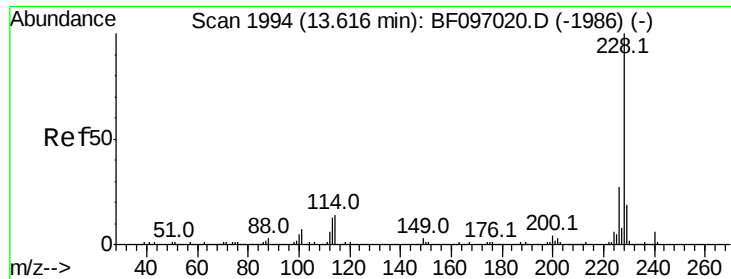
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 61.687 ng

RT: 13.57 min Scan# 1986

Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

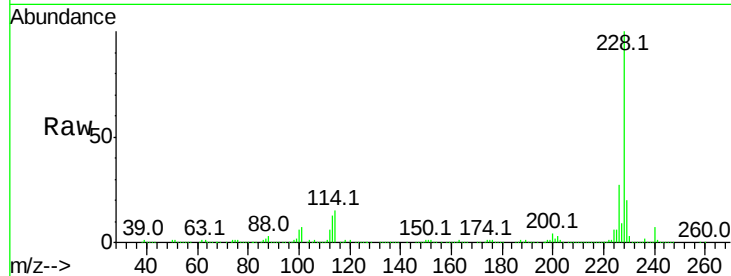
ClientSampleId :

72-11948

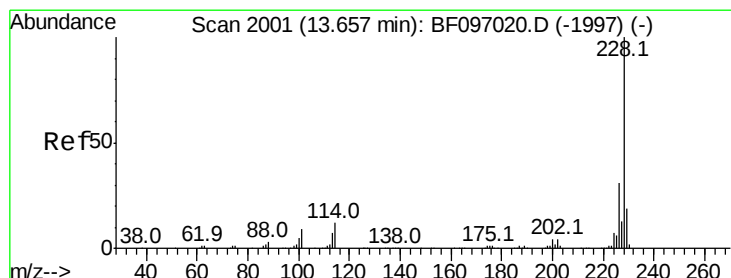
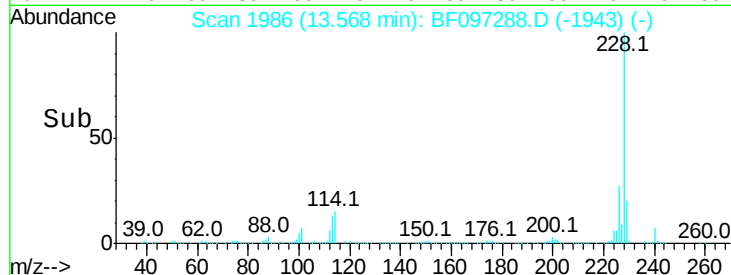
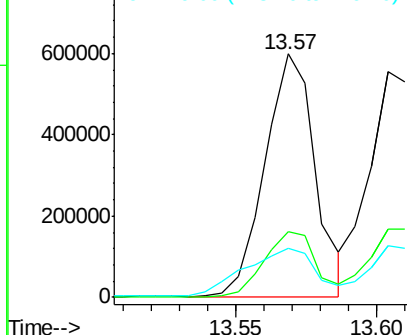
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 735304 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.2  | 22.6  | 33.8   |
| 229       | 20.2  | 16.3  | 24.5   |

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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: 51.470 ng

RT: 13.60 min Scan# 1992

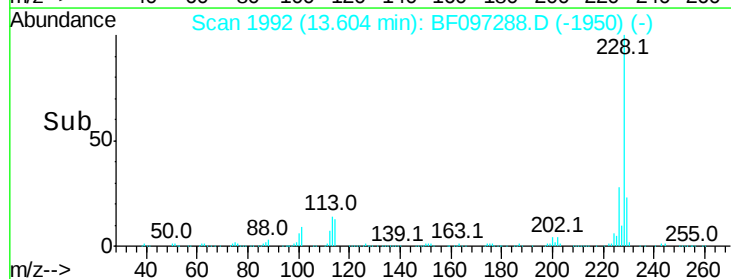
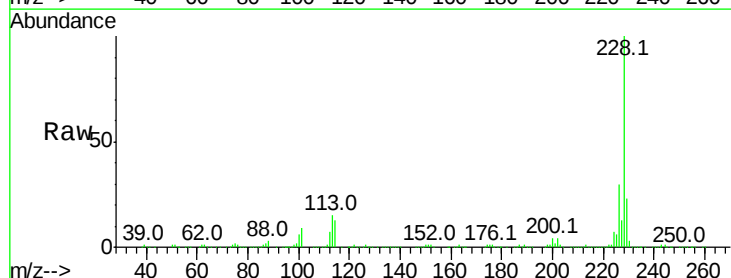
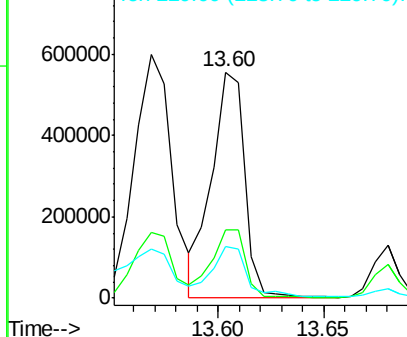
Delta R.T. -0.05 min

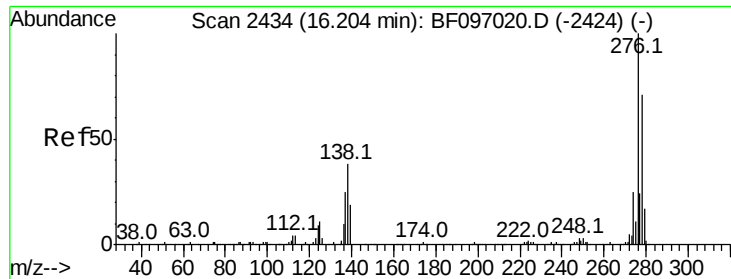
Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 599073 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 24.9  | 37.3   |
| 229       | 22.9  | 15.8  | 23.6   |

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





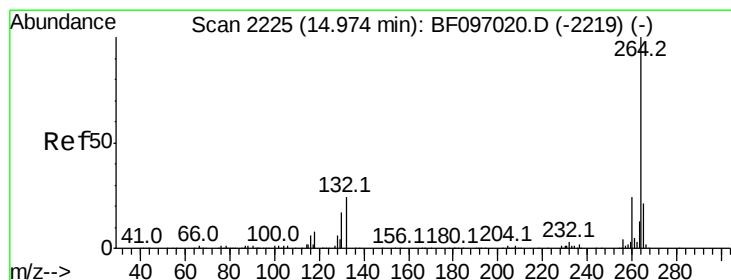
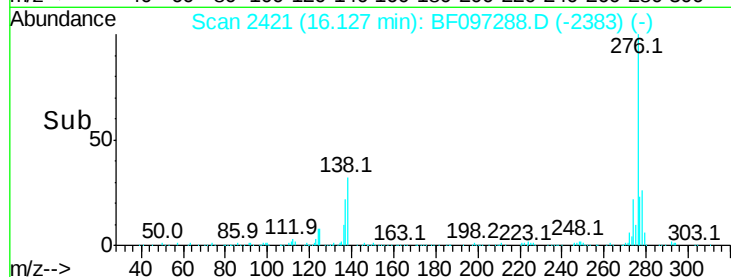
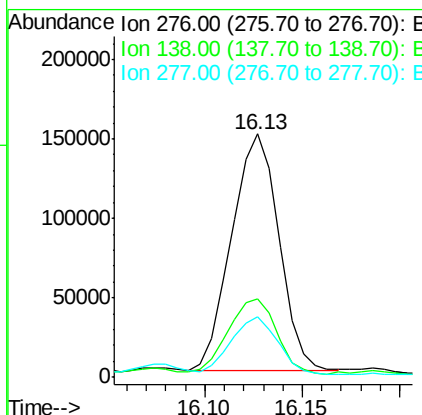
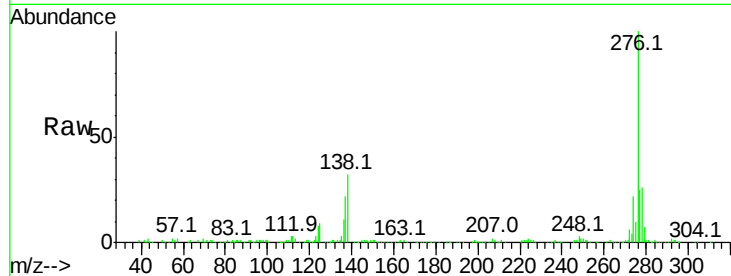
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 24.977 ng  
 RT: 16.13 min Scan# 2421  
 Delta R.T. -0.08 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11948

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.4  | 27.8  | 41.6  |
| 277     | 24.4  | 20.2  | 30.4  |

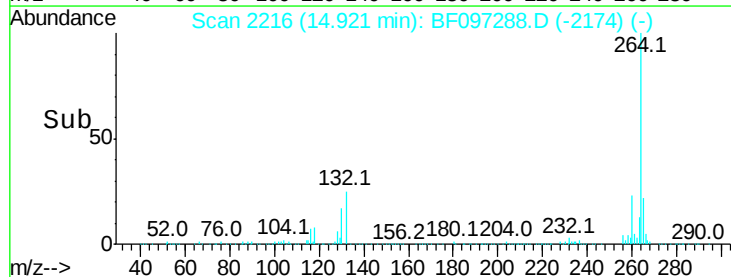
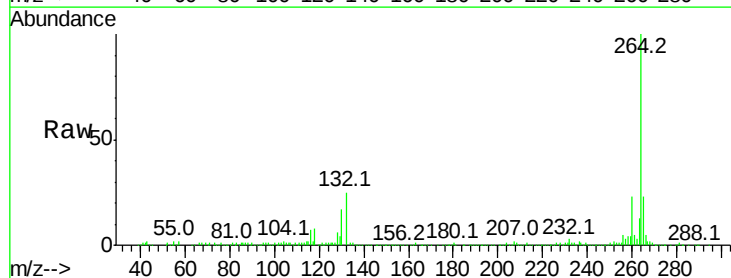
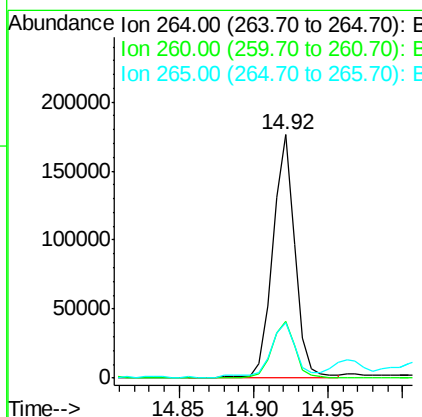
Manual Integrations  
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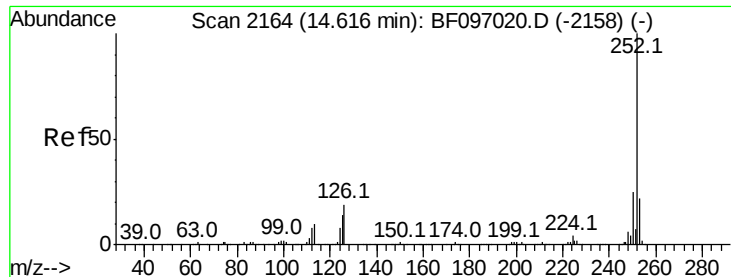
Sohil  
 8/3/2017 6:08:16 PM



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 14.92 min Scan# 2216  
 Delta R.T. -0.05 min  
 Lab File: BF097288.D  
 Acq: 2 Aug 2017 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.5  | 29.3  |
| 265     | 22.8  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 67.829 ng m

RT: 14.57 min Scan# 2157

Delta R.T. -0.04 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

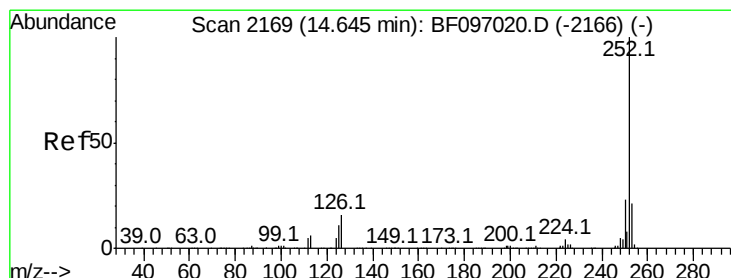
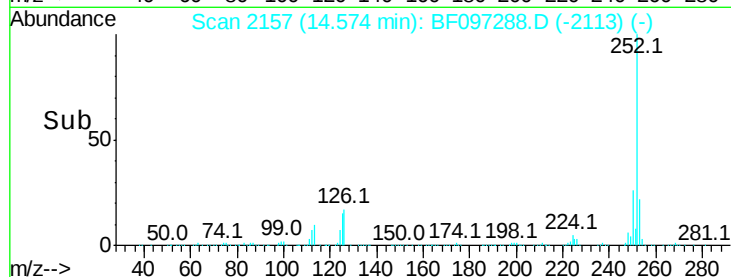
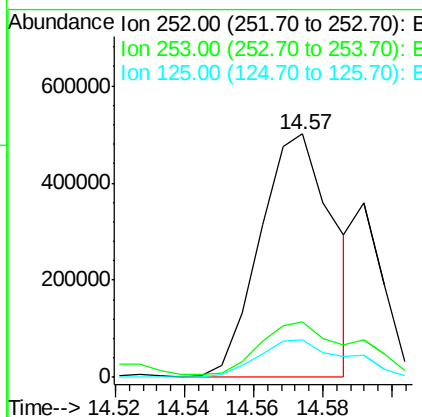
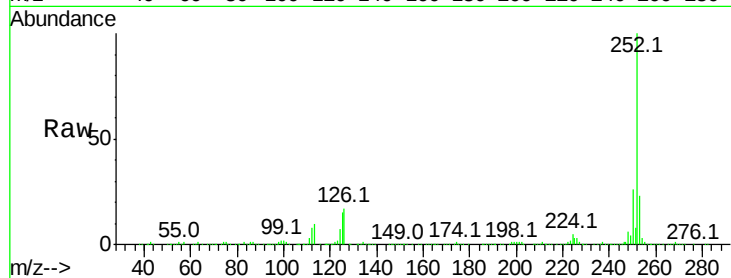
ClientSampleId :

72-11948

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 742336 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 18.1  | 27.1   |
| 125       | 15.4  | 9.8   | 14.8#  |

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#88

Benzo(k)fluoranthene

Concen: 20.490 ng m

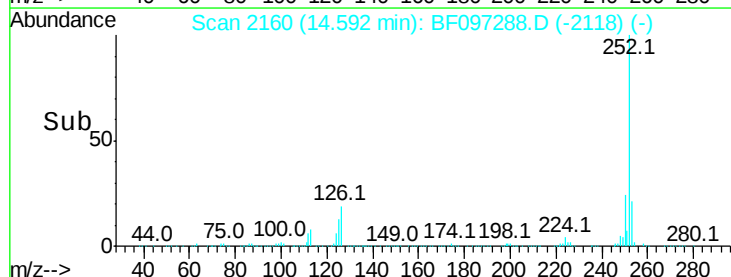
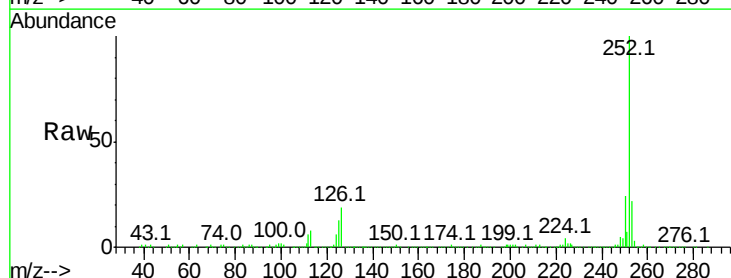
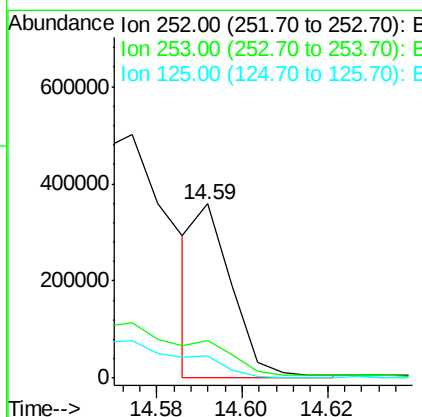
RT: 14.59 min Scan# 2160

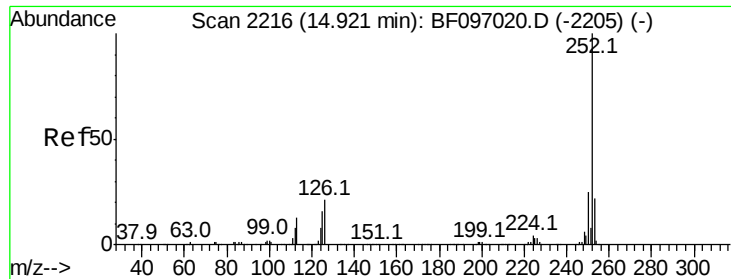
Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 213690 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.8  | 18.4  | 27.6   |
| 125       | 12.8  | 13.1  | 19.7#  |





#89

Benzo(a)pyrene

Concen: 52.638 ng

RT: 14.87 min Scan# 2208

Delta R.T. -0.05 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

Instrument :

BNA\_F

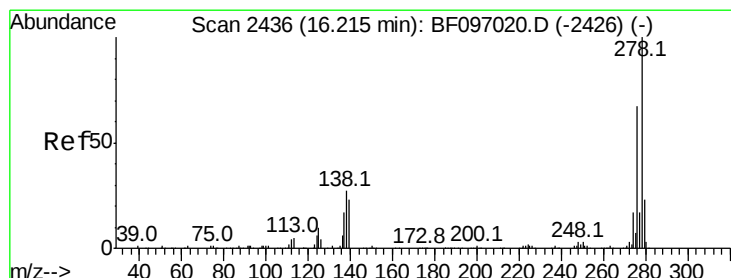
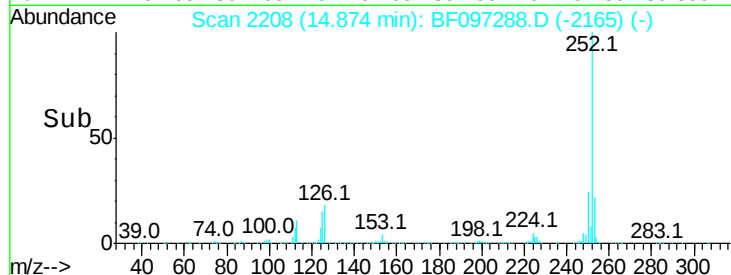
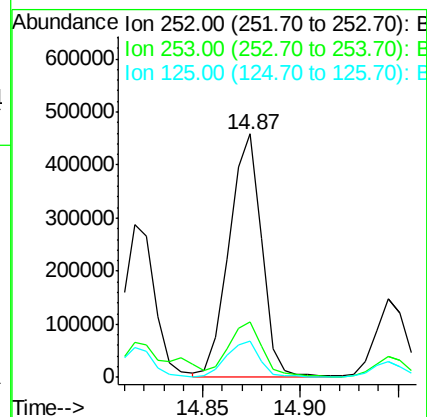
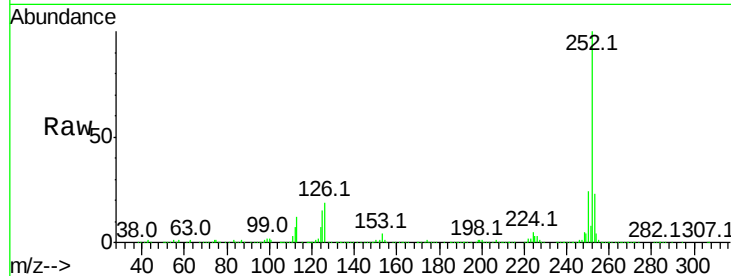
ClientSampled :

72-11948

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 252  | Resp: | 527244 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.5 | 17.5  | 26.3   |
| 125       | 14.9 | 11.0  | 16.4   |

Manual Integrations  
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#90

Dibenzo(a,h)anthracene

Concen: 7.996 ng

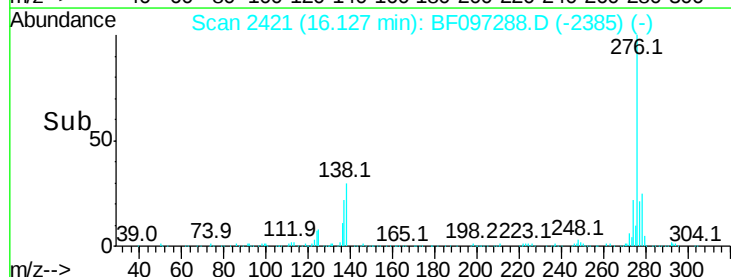
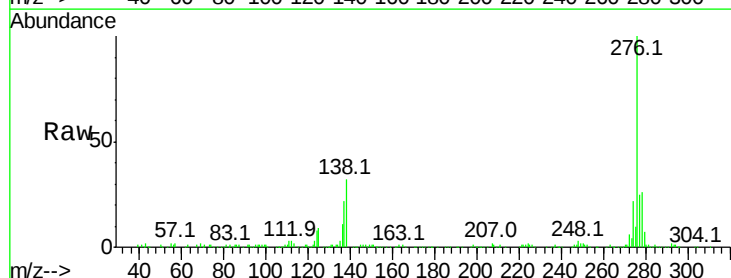
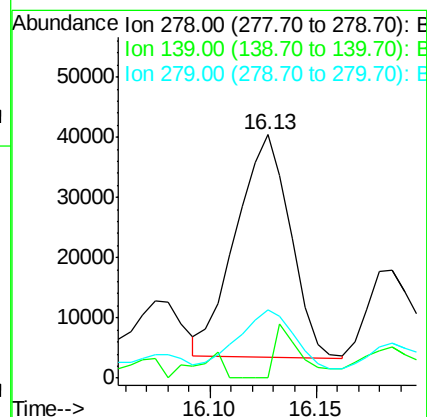
RT: 16.13 min Scan# 2421

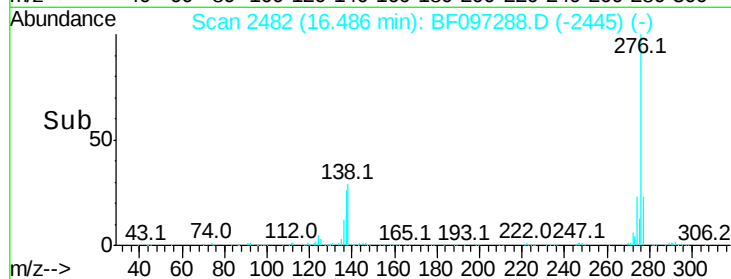
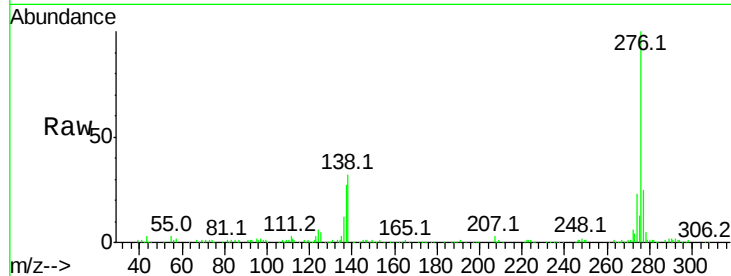
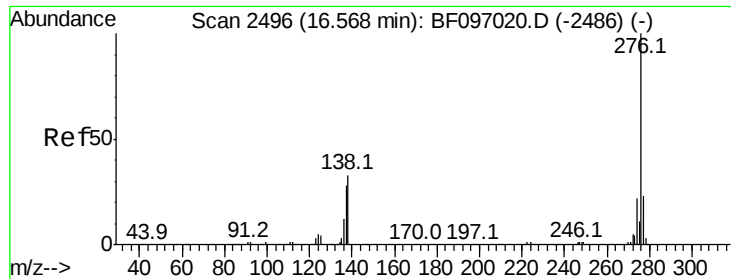
Delta R.T. -0.09 min

Lab File: BF097288.D

Acq: 2 Aug 2017 22:07

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 278  | Resp: | 65682 |
| Ion Ratio |      | Lower | Upper |
| 278       | 100  |       |       |
| 139       | 0.0  | 16.6  | 24.8# |
| 279       | 27.8 | 19.3  | 28.9  |





#91  
Benzo(a,h,i)perylene  
Concen: 26.710 ng  
RT: 16.49 min Scan# 2482  
Delta R.T. -0.08 min  
Lab File: BF097288.D  
Acq: 2 Aug 2017 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 230071 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.8  | 18.6  | 28.0   |
| 138       | 32.1  | 25.4  | 38.0   |

Instrument :  
BNA\_F  
ClientSampleId :  
72-11948

Manual Integrations  
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