

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\  
 Data File : BF097121.D  
 Acq On : 27 Jul 2017 14:38  
 Operator : SJ/JU  
 Sample : I4421-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M6-WSW

Manual Integrations  
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 7/28/2017 4:46:42 PM

Quant Time: Jul 27 16:17:45 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  | 102327   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.77  | 136  | 380812   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.52  | 164  | 162745   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 10.99 | 188  | 220254   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.61 | 240  | 200861   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 14.96 | 264  | 181012   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.09  | 112  | 706119   | 104.03 | ng    | 0.00     |
| 7) Phenol-d6                | 6.15  | 99   | 917916   | 118.45 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 581037   | 89.51  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.30 | 330  | 126689   | 98.53  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.85  | 172  | 795333   | 82.94  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.57 | 244  | 515742   | 52.35  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.16  | 94   | 34734    | 3.779  | ng    | 99       |
| 11) bis(2-Chloroethyl)ether | 6.23  | 93   | 57069    | 7.850  | ng    | 96       |
| 13) 1,4-Dichlorobenzene     | 6.50  | 146  | 18891m   | 2.437  | ng    |          |
| 14) 1,2-Dichlorobenzene     | 6.66  | 146  | 21372    | 3.158  | ng    | 98       |
| 31) Naphthalene             | 7.79  | 128  | 444954   | 24.787 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.49  | 142  | 308337   | 27.129 | ng    | 99       |
| 45) 1,1'-Biphenyl           | 8.95  | 154  | 50000    | 3.597  | ng    | 95       |
| 49) Dimethylphthalate       | 9.25  | 163  | 214442   | 17.352 | ng    | 99       |
| 57) Fluorene                | 10.06 | 166  | 31533    | 3.406  | ng    | # 80     |
| 70) Phenanthrene            | 11.01 | 178  | 103655   | 8.783  | ng    | 98       |
| 71) Anthracene              | 11.06 | 178  | 28459    | 2.354  | ng    | 96       |
| 74) Fluoranthene            | 12.19 | 202  | 195419   | 16.903 | ng    | 97       |
| 77) Pvrene                  | 12.42 | 202  | 187311   | 11.391 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.60 | 228  | 86635    | 6.666  | ng    | 97       |
| 82) Chrysene                | 13.64 | 228  | 85853    | 6.765  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.18 | 276  | 49694    | 4.567  | ng    | 94       |
| 87) Benzo(b)fluoranthene    | 14.60 | 252  | 118006m  | 10.845 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.62 | 252  | 42477m   | 4.097  | ng    |          |
| 89) Benzo(a)pvrene          | 14.91 | 252  | 82598    | 8.294  | ng    | # 95     |
| 91) Benzo(a,h,i)perylene    | 16.54 | 276  | 52347    | 6.112  | ng    | 98       |

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

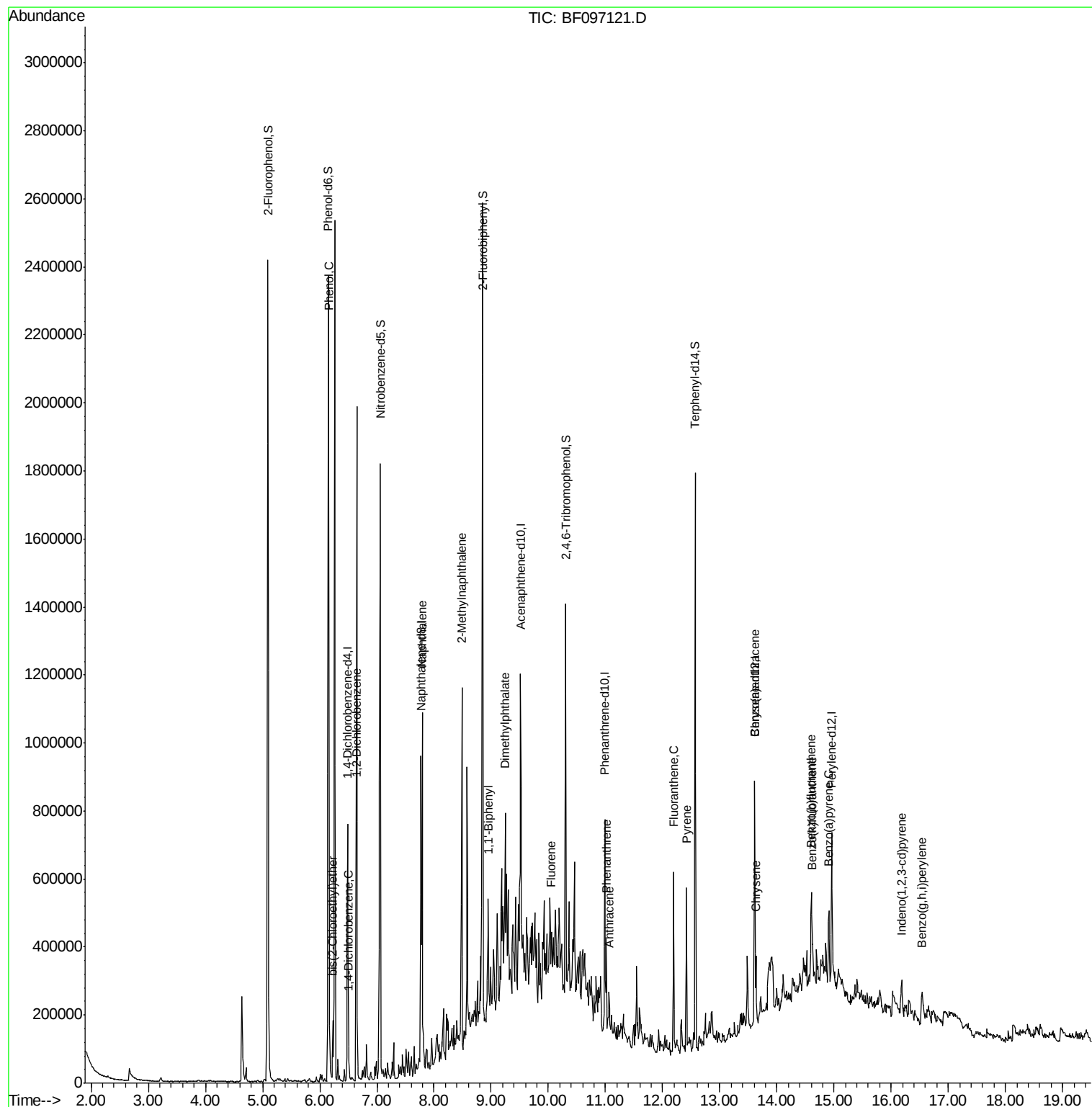
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072717\  
Data File : BF097121.D  
Acq On : 27 Jul 2017 14:38  
Operator : SJ/JU  
Sample : I4421-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

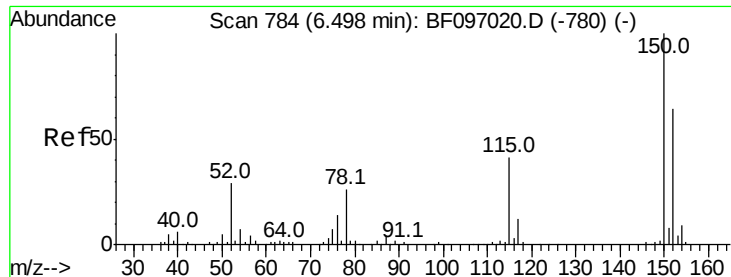
Instrument :  
BNA\_F  
ClientSampleId :  
E2-M6-WSW

Manual Integrations  
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Quant Time: Jul 27 16:17:45 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

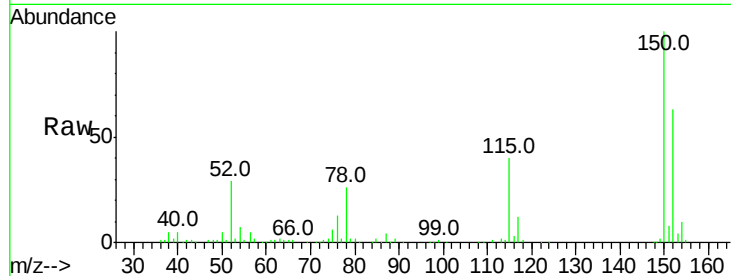
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

Instrument :  
BNA\_F  
ClientSampled :  
E2-M6-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.9 | 126.2 | 189.2 |
| 115     | 63.4  | 52.2  | 78.2  |

Manual Integrations  
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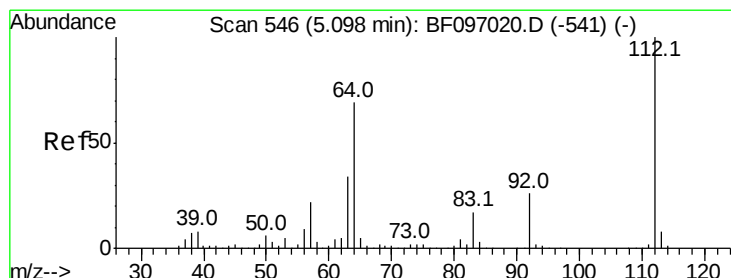
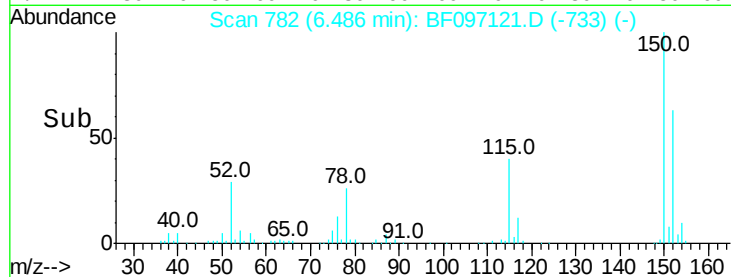
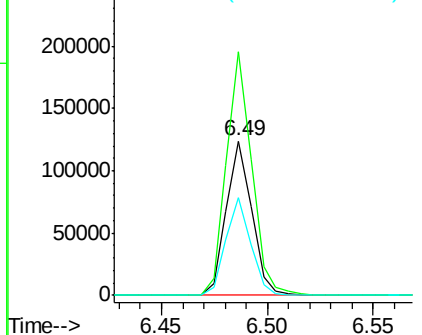


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

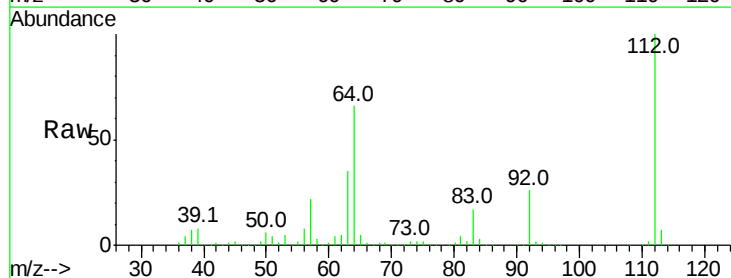
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 104.026 ng  
RT: 5.09 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.0  | 46.0  | 69.0  |
| 63      | 35.2  | 23.4  | 35.0  |

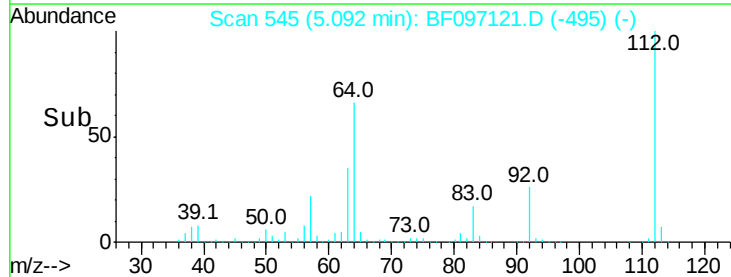
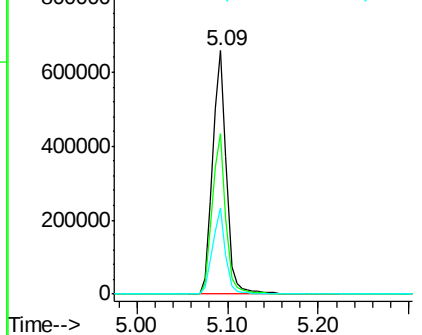


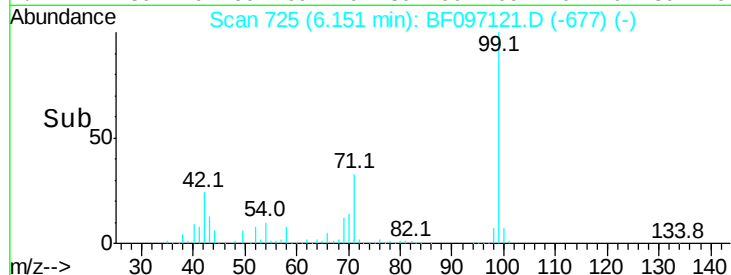
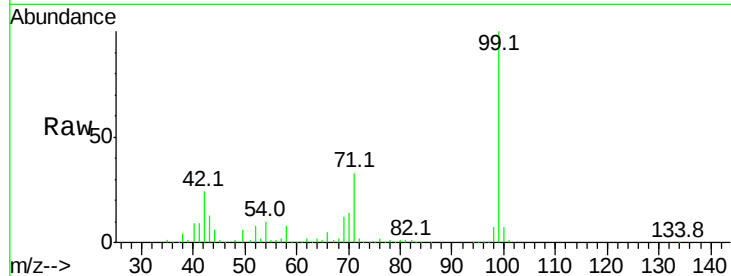
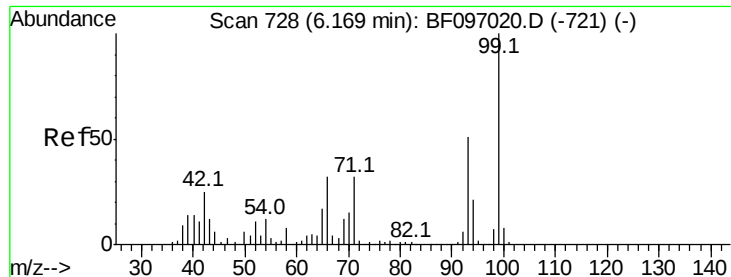
Abundance

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: 118.453 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 917916 |       |       |
| 42      | 24.4 | 13.5  | 20.3#  |       |       |
| 71      | 33.2 | 24.5  | 36.7   |       |       |

Instrument :

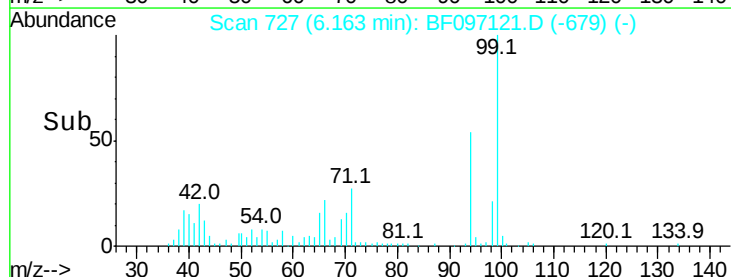
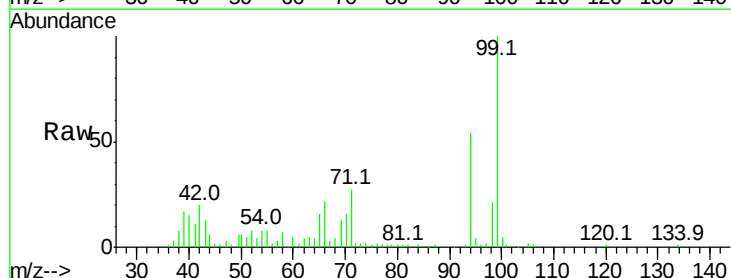
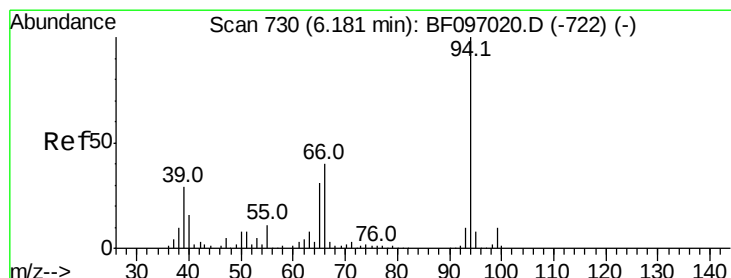
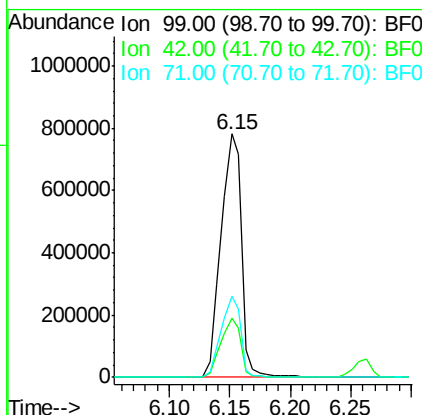
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ClientSampled :

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#10

Phenol

Concen: 3.779 ng

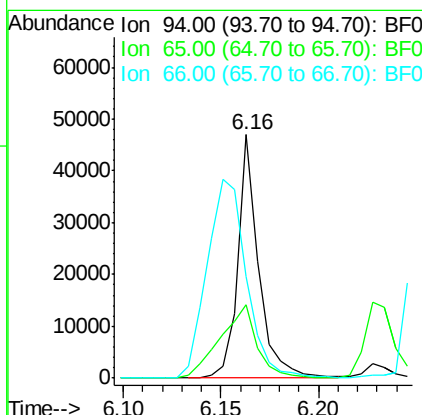
RT: 6.16 min Scan# 727

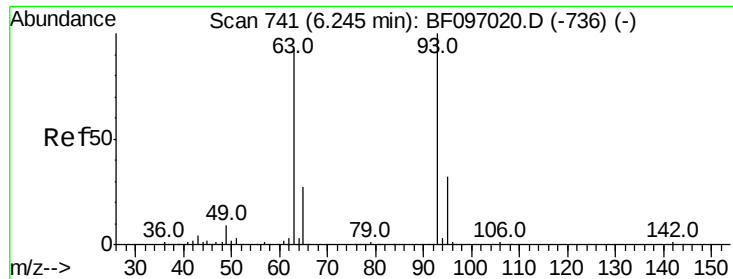
Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 94      | 100  |       | 34734 |       |       |
| 65      | 29.9 | 9.9   | 49.9  |       |       |
| 66      | 41.5 | 23.1  | 63.1  |       |       |





#11

bis(2-Chloroethyl)ether

Concen: 7.850 ng

RT: 6.23 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

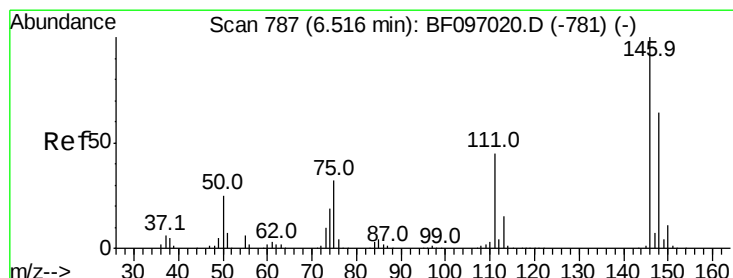
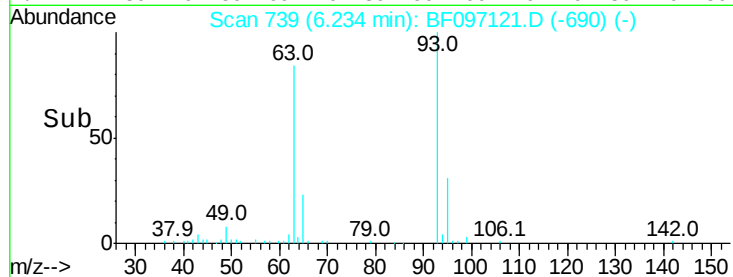
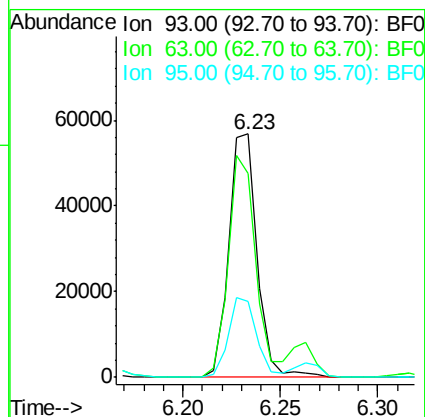
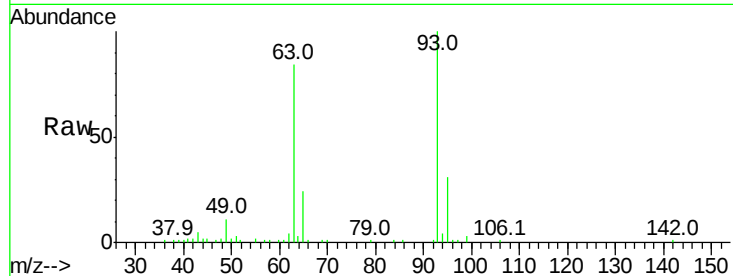
ClientSampleId :

E2-M6-WSW

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 93    | Resp: | 57069 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 83.7  | 59.2  | 99.2  |
| 95       | 31.3  | 12.8  | 52.8  |

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#13

1,4-Dichlorobenzene

Concen: 2.437 ng m

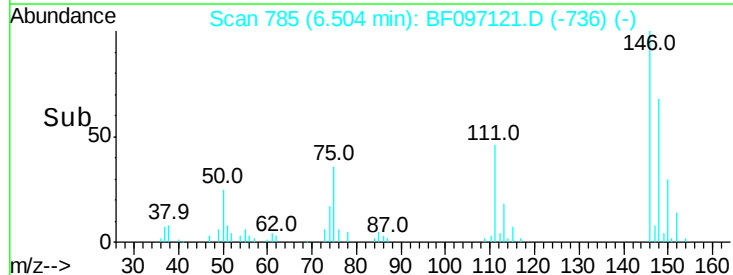
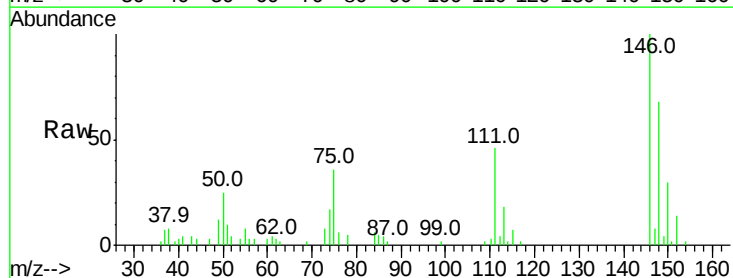
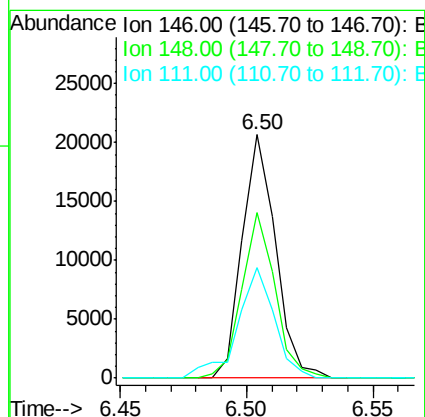
RT: 6.50 min Scan# 785

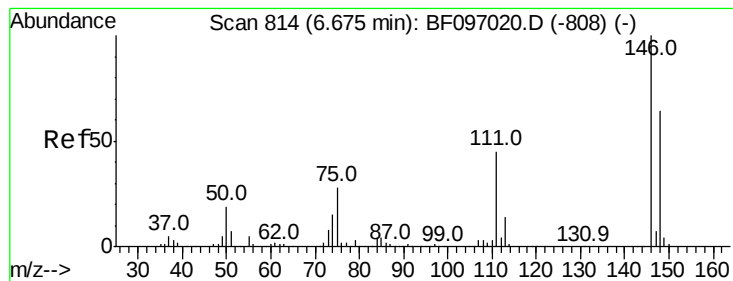
Delta R.T. -0.01 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 18891 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 148      | 68.2  | 52.2  | 78.2  |
| 111      | 45.6  | 30.3  | 45.5# |





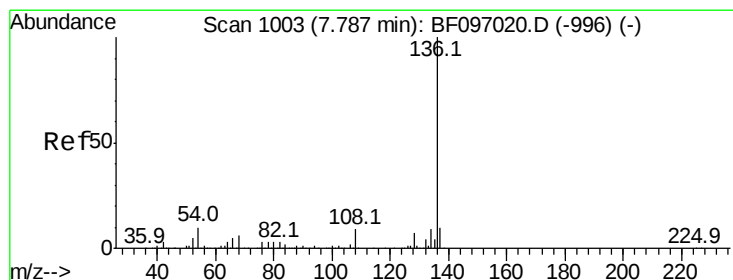
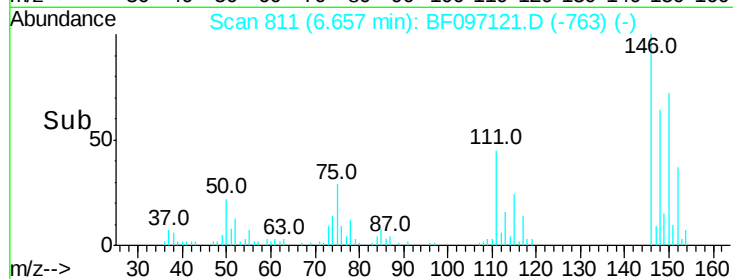
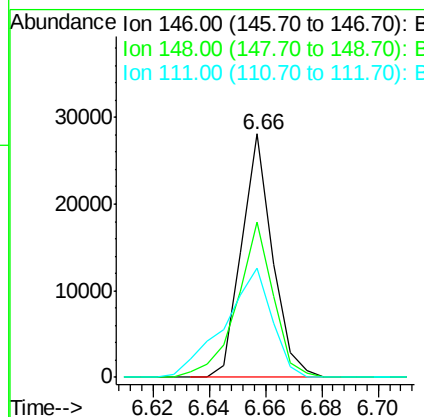
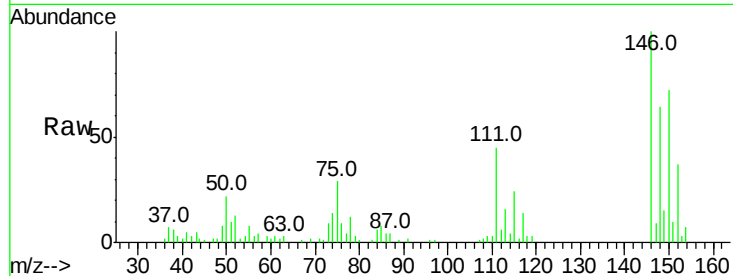
#14  
 1,2-Dichlorobenzene  
 Concen: 3.158 ng  
 RT: 6.66 min Scan# 811  
 Delta R.T. -0.02 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M6-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.7  | 50.4  | 75.6  |
| 111     | 44.8  | 38.2  | 57.4  |

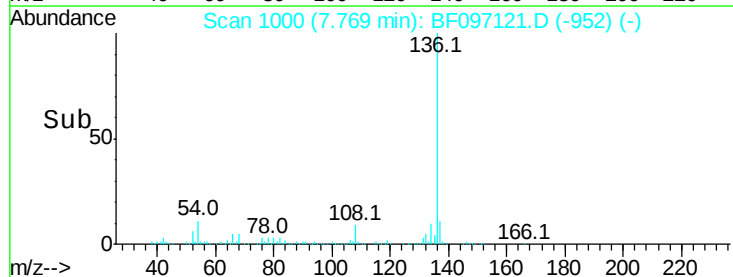
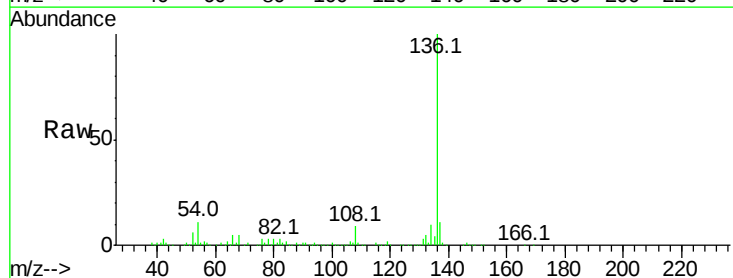
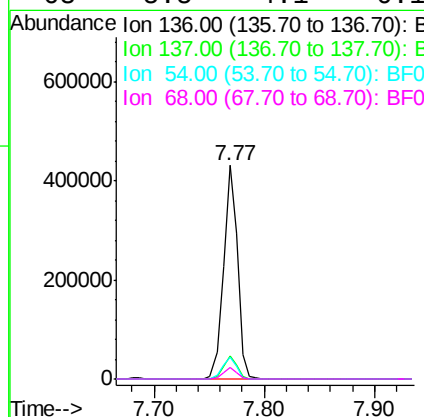
Manual Integrations  
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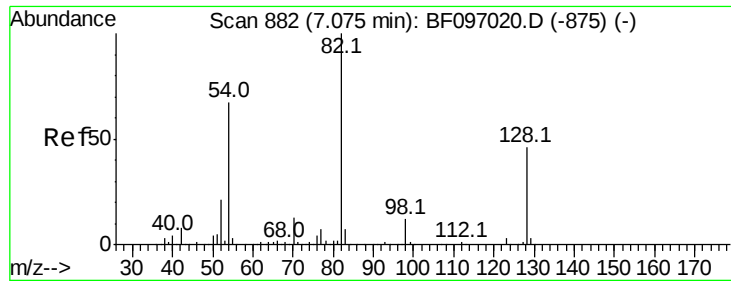
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#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 7.77 min Scan# 1000  
 Delta R.T. -0.02 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.8  | 8.5   | 12.7  |
| 54      | 10.5  | 4.9   | 7.3#  |
| 68      | 5.5   | 4.1   | 6.1   |





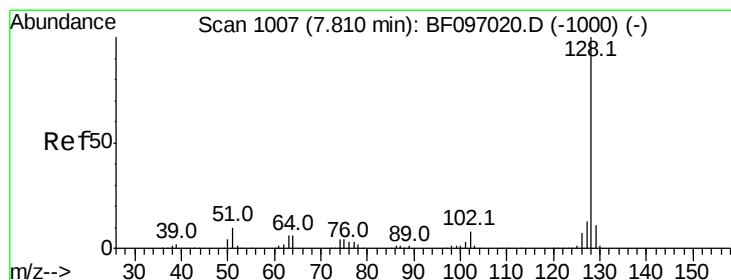
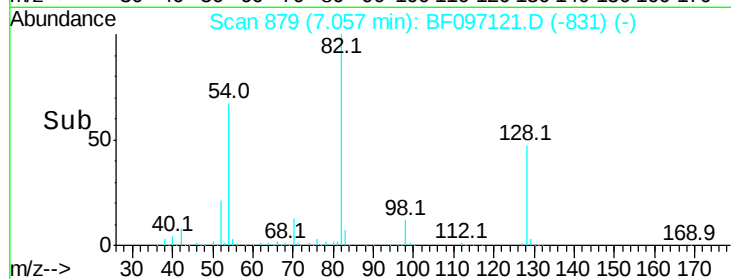
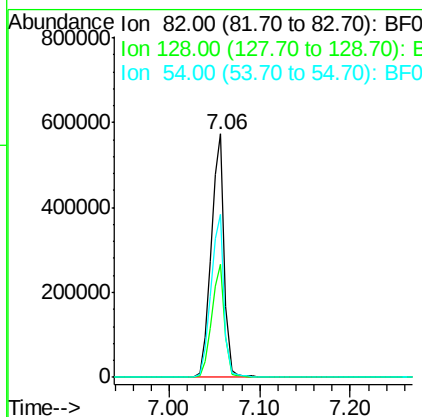
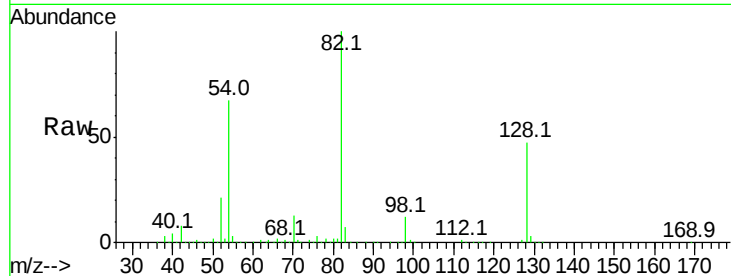
#23  
Nitrobenzene-d5  
Concen: 89.509 ng  
RT: 7.06 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

Instrument :  
BNA\_F  
ClientSampled :  
E2-M6-WSW

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 46.6  | 34.0 | 51.0  |       |
| 54      | 67.1  | 42.2 | 63.2  |       |

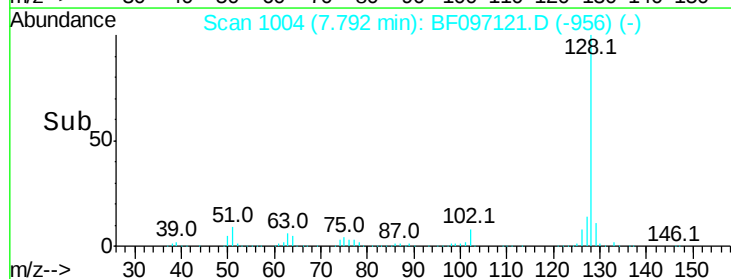
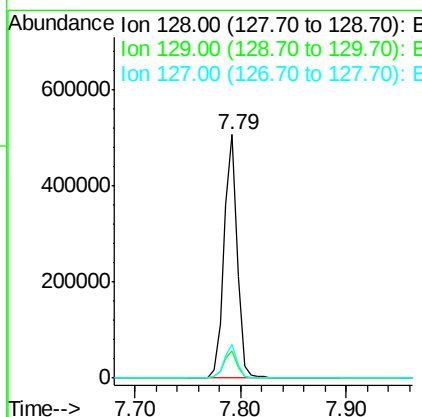
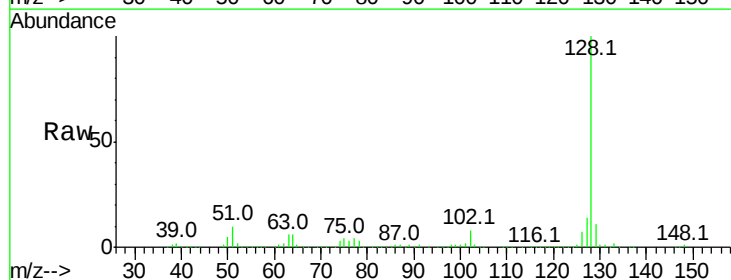
Manual Integrations  
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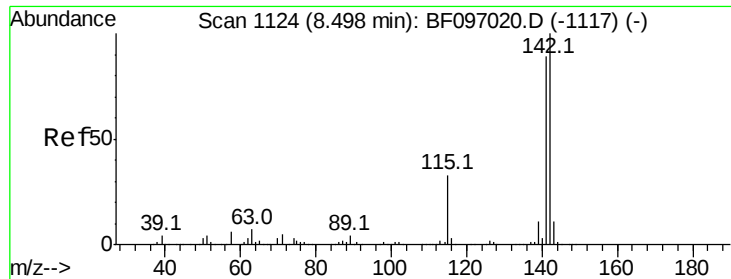
Sohil  
7/28/2017 4:46:42 PM



#31  
Naphthalene  
Concen: 24.787 ng  
RT: 7.79 min Scan# 1004  
Delta R.T. -0.02 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 11.0  | 9.0  | 13.6  |       |
| 127     | 13.8  | 10.8 | 16.2  |       |





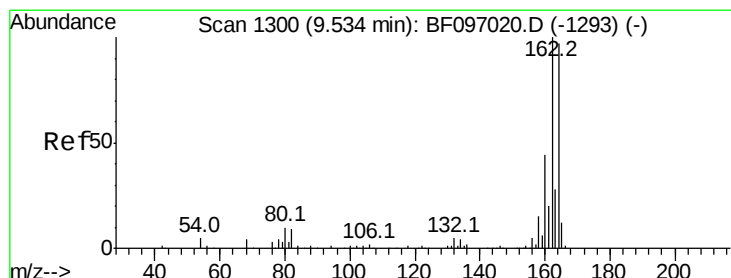
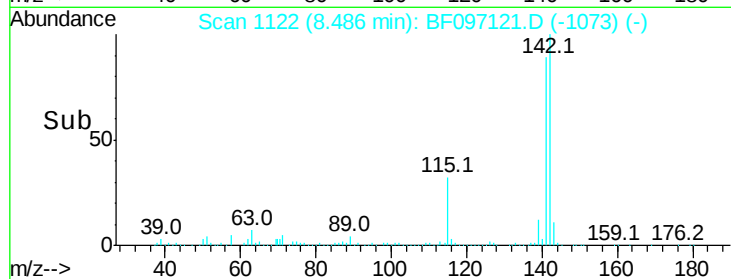
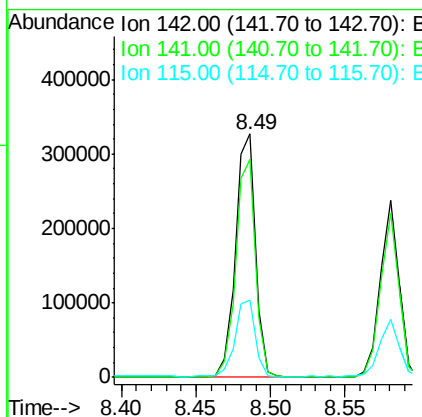
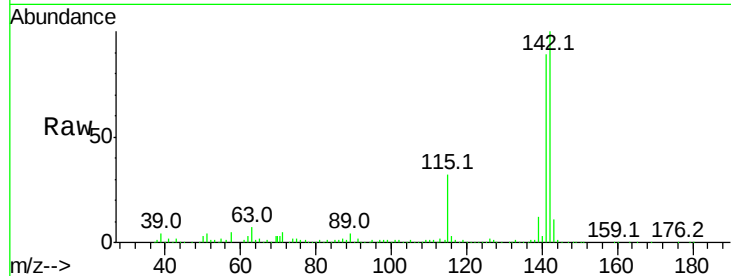
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 2-Methylnaphthalene  
 Concen: 27.129 ng  
 RT: 8.49 min Scan# 1122  
 Delta R.T. -0.01 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M6-WSW

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 308337 |       |       |
| 141     | 89.3  | 71.3   | 106.9 |       |
| 115     | 31.7  | 27.1   | 40.7  |       |

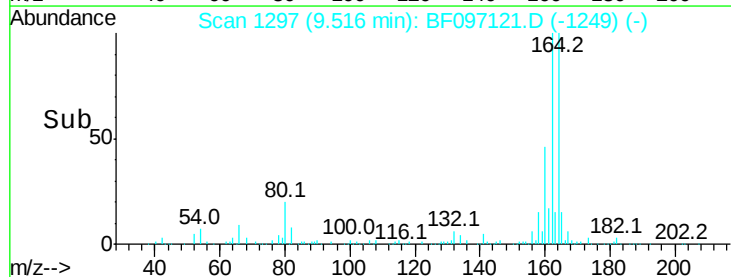
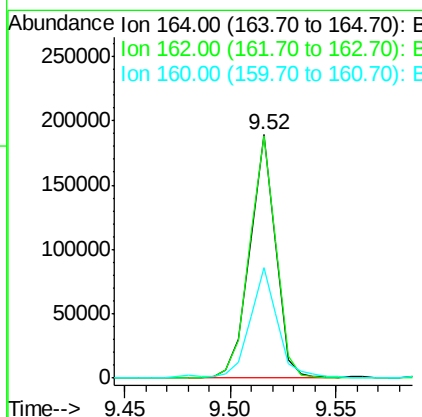
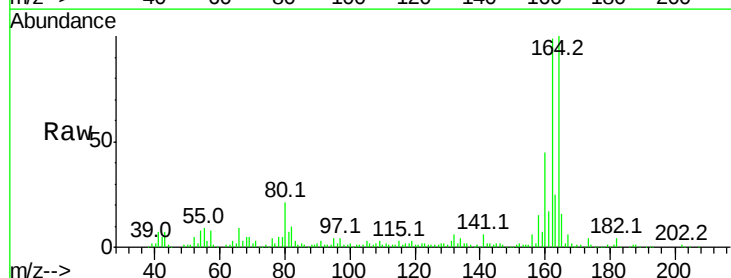
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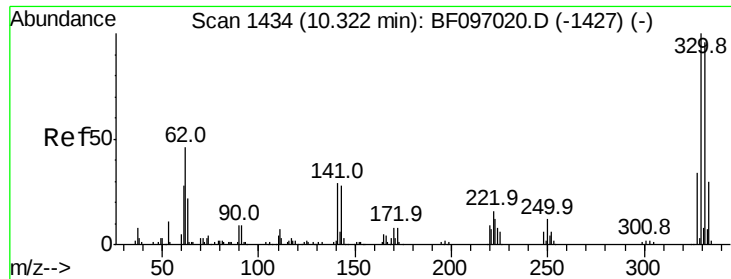
Sohil  
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.02 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 162745 |       |       |
| 162     | 99.4  | 82.6   | 123.8 |       |
| 160     | 45.5  | 36.2   | 54.2  |       |





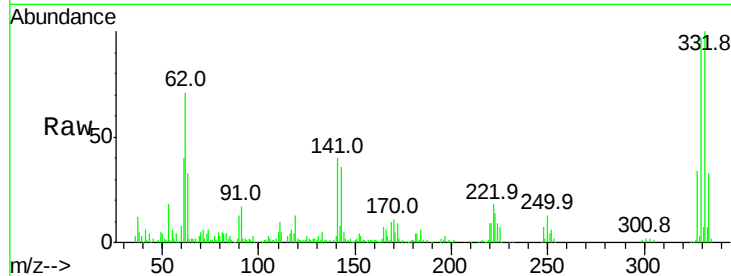
#41  
 2,4,6-Tribromophenol  
 Concen: 98.526 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-M6-WSW

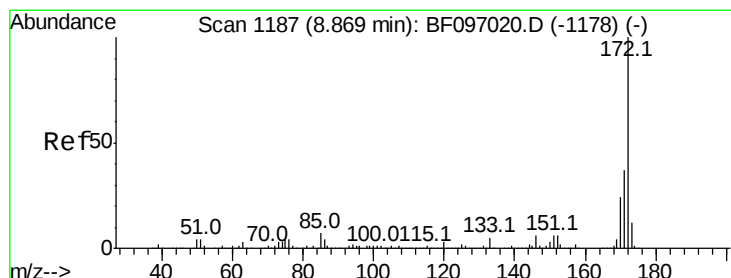
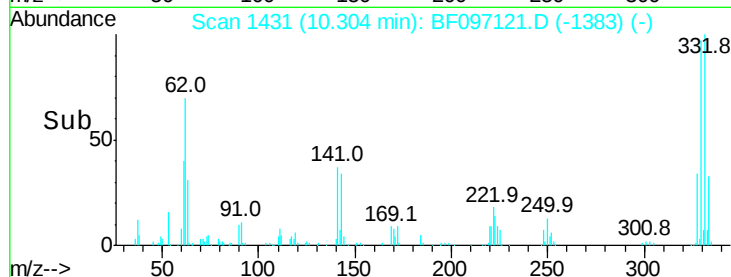
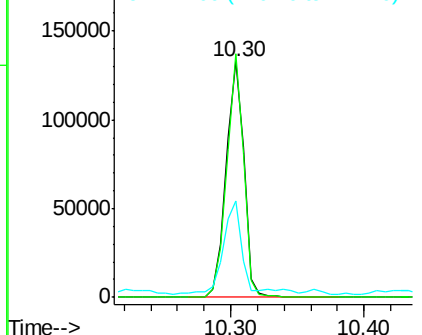
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 126689 |       |       |
| 332     | 97.3  | 76.6   | 115.0 |       |
| 141     | 39.2  | 31.4   | 47.2  |       |

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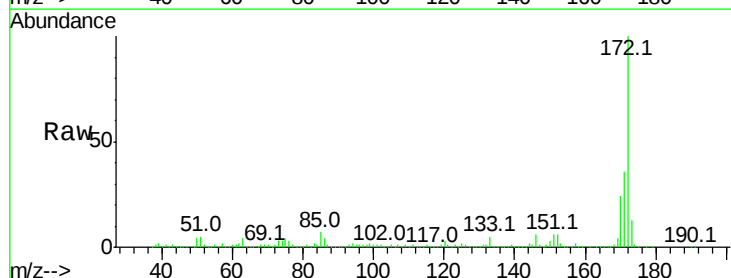


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

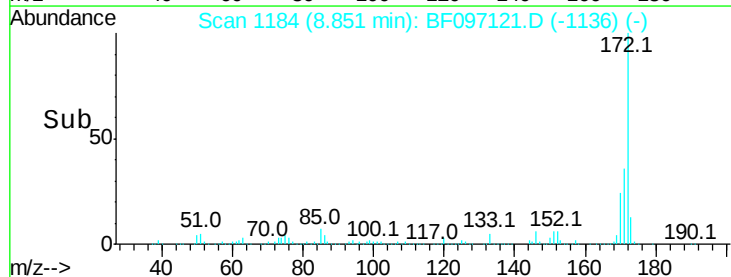
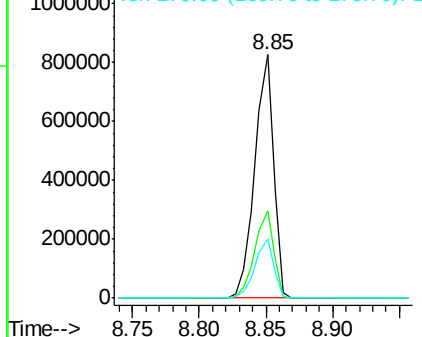


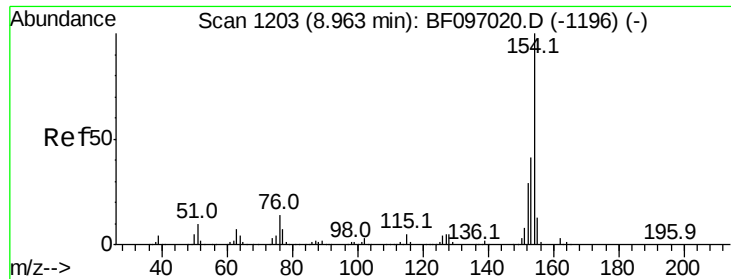
#44  
 2-Fluorobiphenyl  
 Concen: 82.937 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097121.D  
 Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 795333 |       |       |
| 171     | 35.9  | 29.6   | 44.4  |       |
| 170     | 24.3  | 19.8   | 29.8  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 3.597 ng

RT: 8.95 min Scan# 1200

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

ClientSampleId :

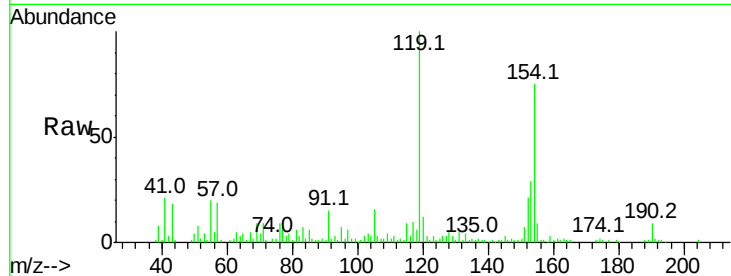
E2-M6-WSW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 50000 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 38.5  | 21.2  | 61.2  |
| 76        | 12.3  | 0.0   | 29.9  |

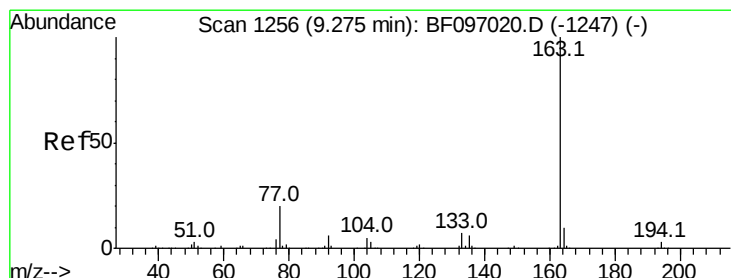
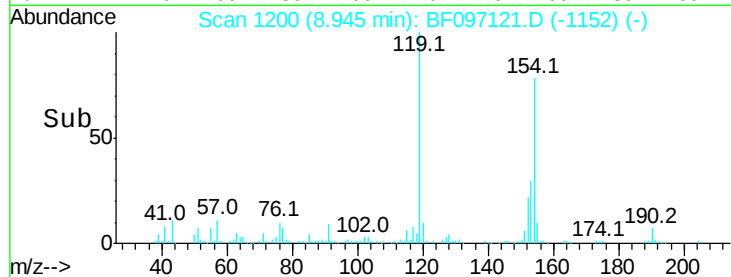
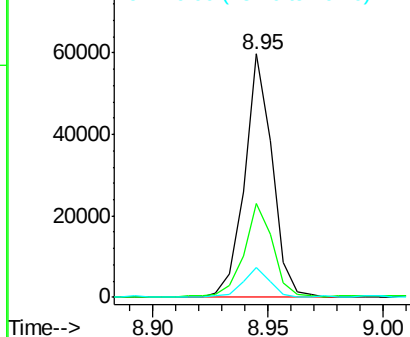
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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BFO



#49

Dimethylphthalate

Concen: 17.352 ng

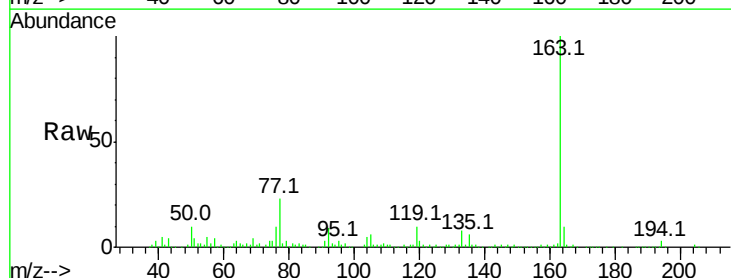
RT: 9.25 min Scan# 1251

Delta R.T. -0.03 min

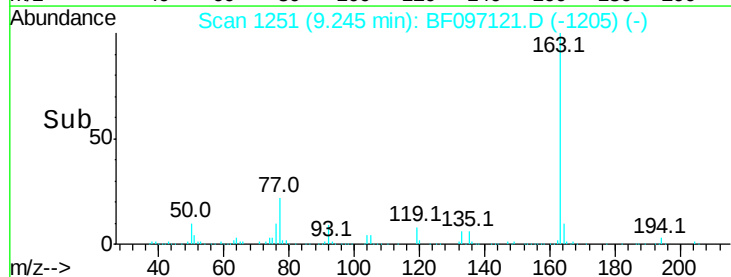
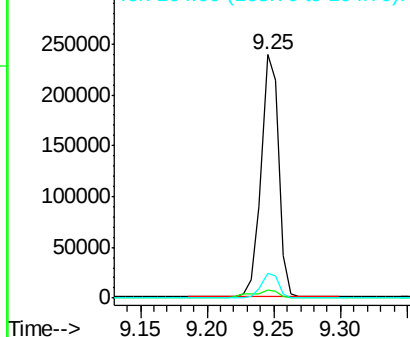
Lab File: BF097121.D

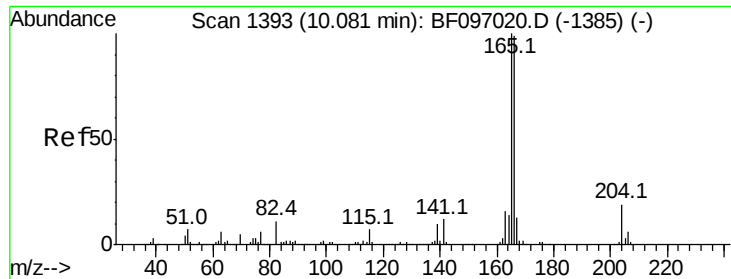
Acq: 27 Jul 2017 14:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 214442 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.2   | 2.6   | 4.0    |
| 164       | 10.1  | 8.4   | 12.6   |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





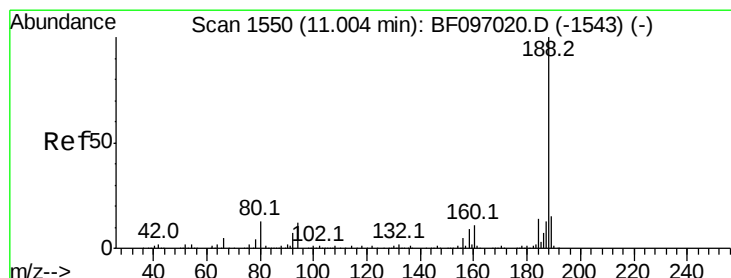
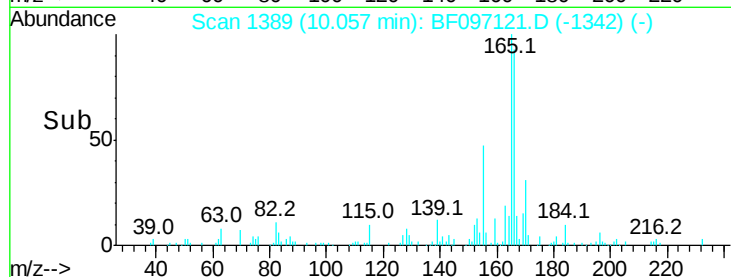
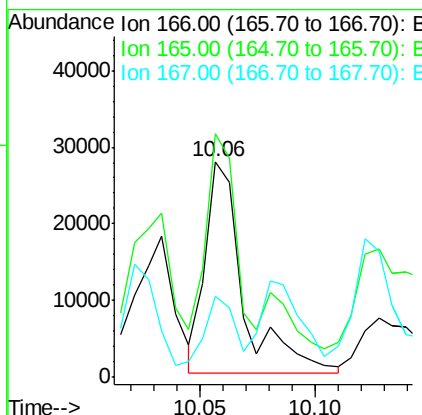
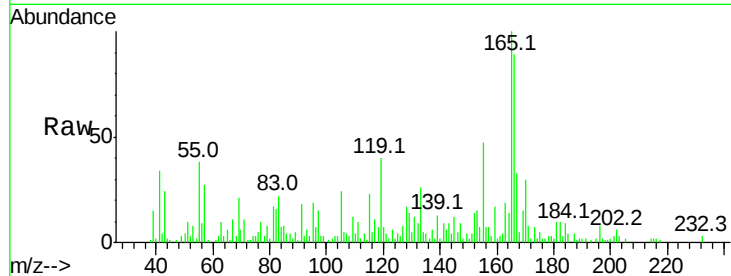
#57  
Fluorene  
Concen: 3.406 ng  
RT: 10.06 min Scan# 1389  
Delta R.T. -0.02 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

Instrument :  
BNA\_F  
ClientSampleId :  
E2-M6-WSW

Tot Ion:166 Resp: 31533  
Ion Ratio Lower Upper  
166 100  
165 112.8 78.8 118.2  
167 37.5 10.6 16.0#

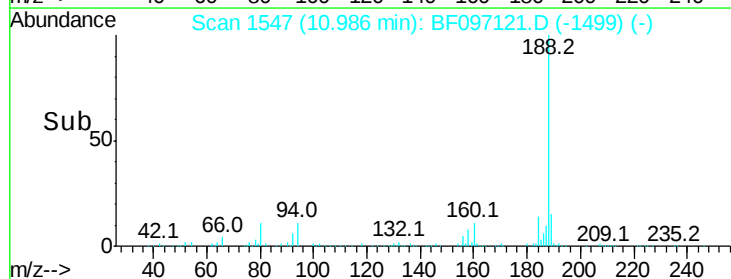
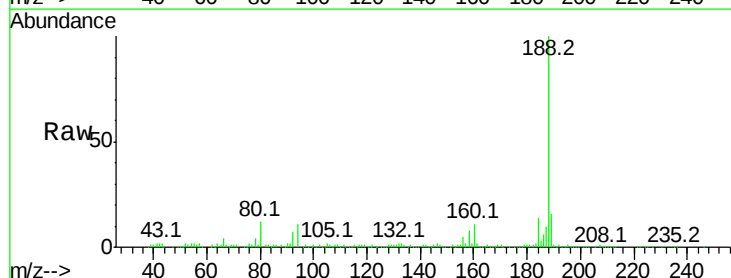
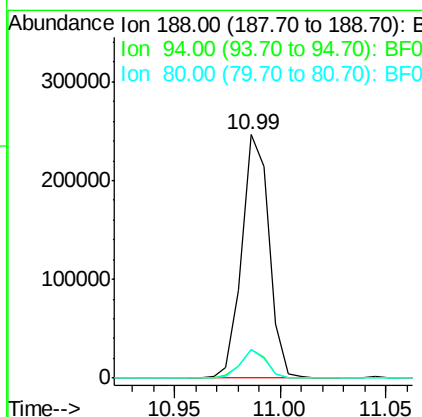
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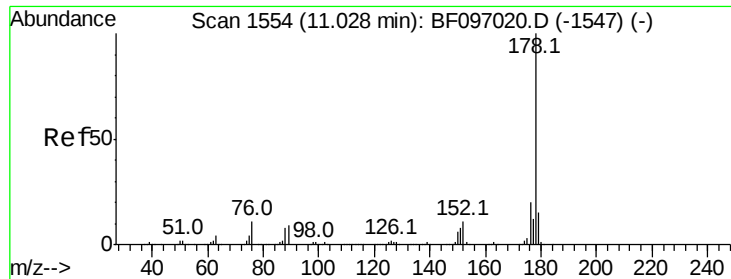
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

Tgt Ion:188 Resp: 220254  
Ion Ratio Lower Upper  
188 100  
94 11.5 9.4 14.2  
80 11.6 10.2 15.2





#70

Phenanthrene

Concen: 8.783 ng

RT: 11.01 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

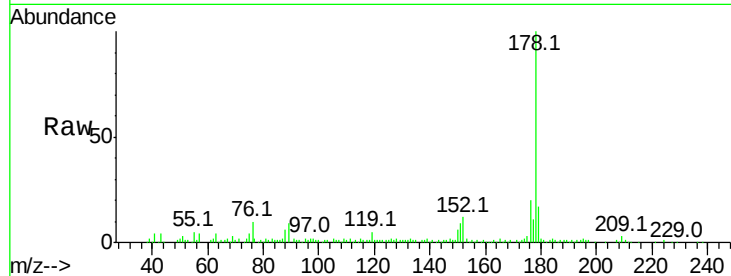
ClientSampled :

E2-M6-WSW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 103655 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.6  | 16.2  | 24.4   |
| 179       | 17.3  | 12.6  | 19.0   |

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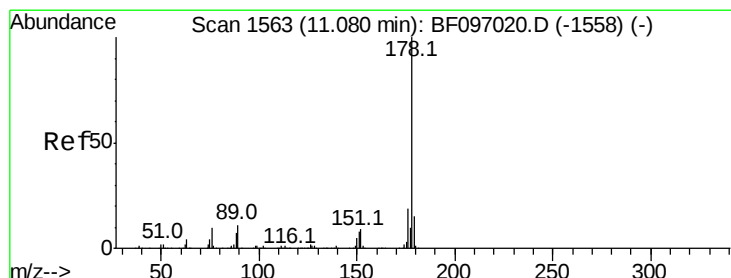
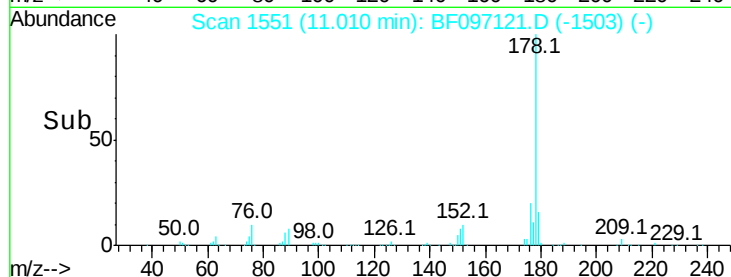
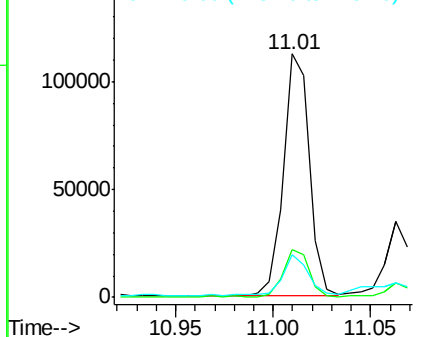
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.354 ng

RT: 11.06 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF097121.D

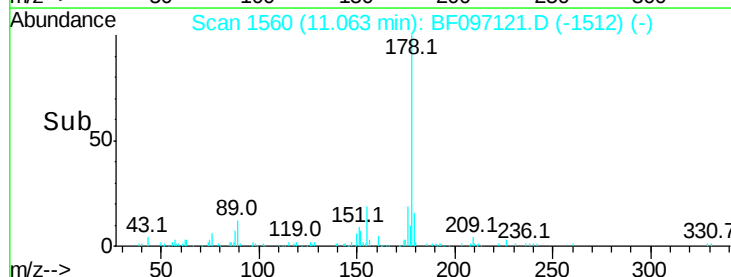
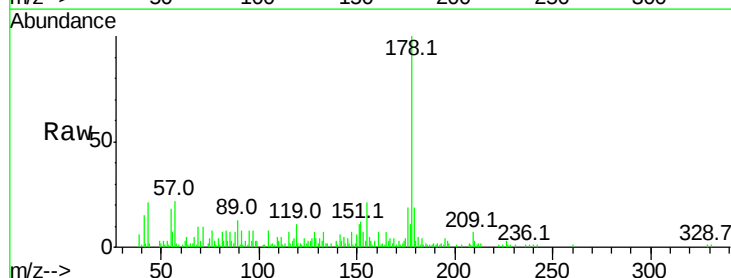
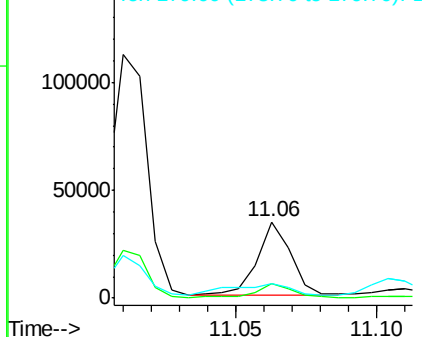
Acq: 27 Jul 2017 14:38

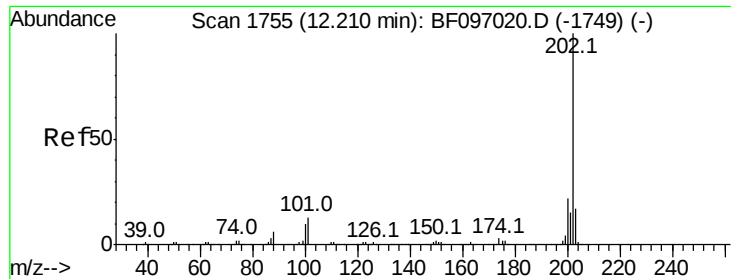
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 28459 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 19.0  | 15.8  | 23.8  |
| 179       | 19.0  | 12.7  | 19.1  |

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: 16.903 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

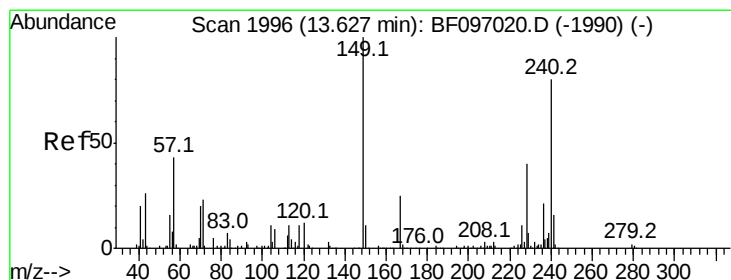
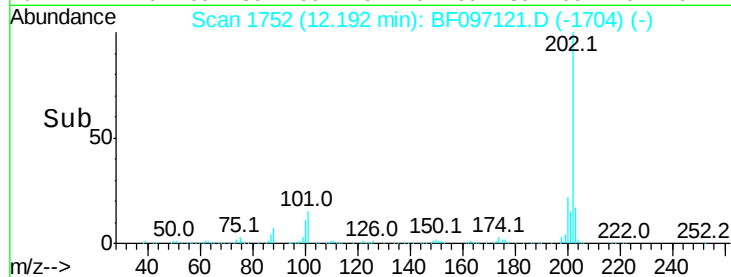
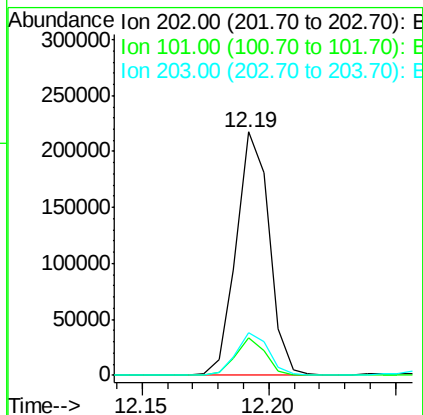
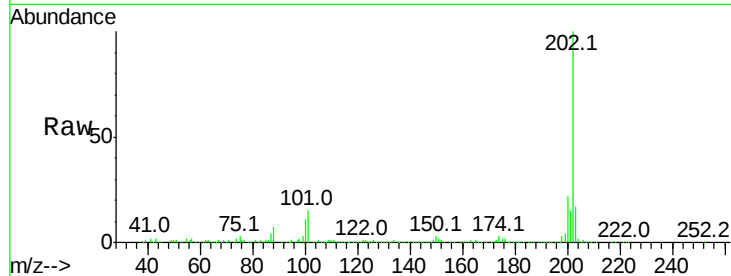
ClientSampleId :

E2-M6-WSW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 195419 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 15.4  | 0.0   | 33.2   |
| 203       | 17.4  | 0.0   | 38.1   |

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#75

Chrysene-d12

Concen: 20.000 ng

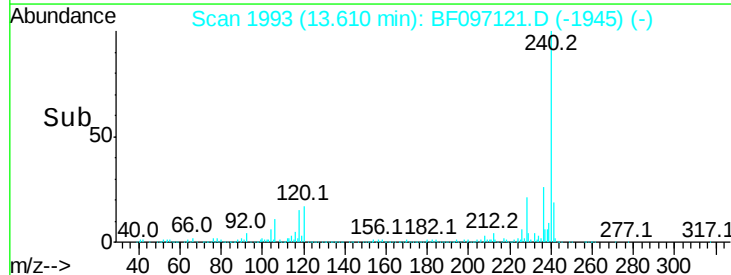
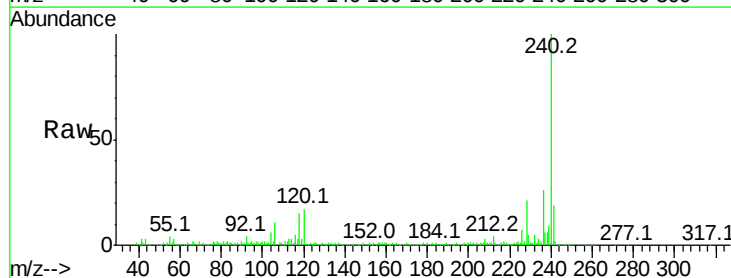
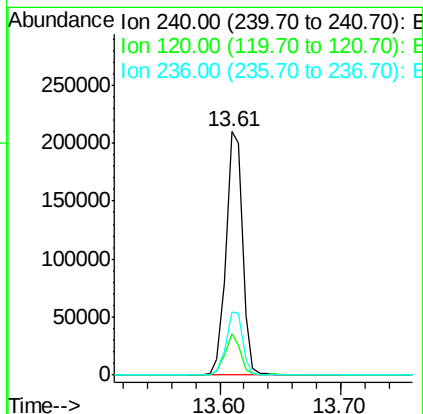
RT: 13.61 min Scan# 1993

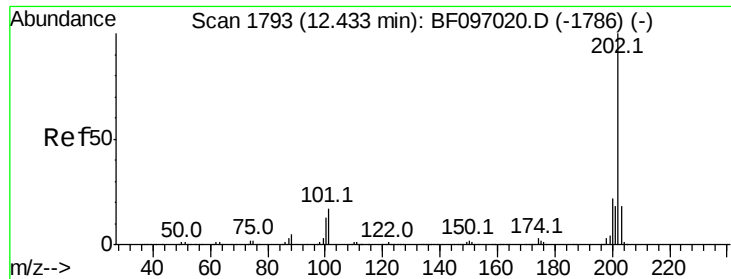
Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 200861 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 17.0  | 5.8   | 8.8#   |
| 236       | 25.8  | 20.5  | 30.7   |





#77

Pvrene

Concen: 11.391 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

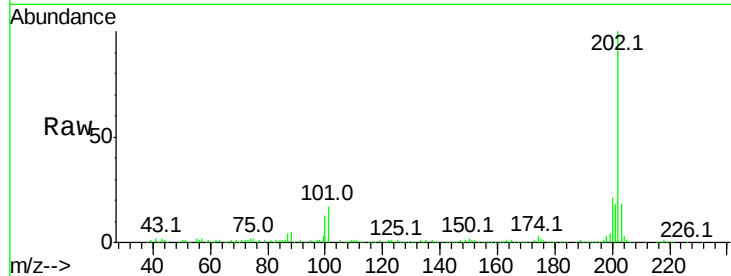
ClientSampled :

E2-M6-WSW

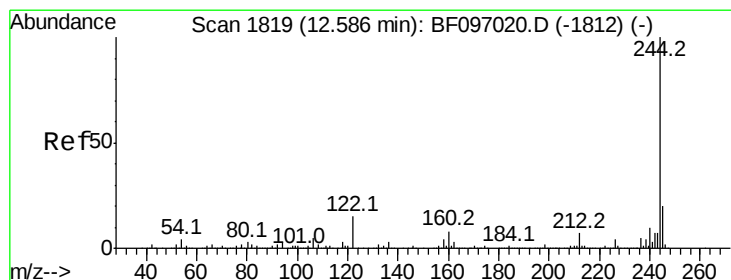
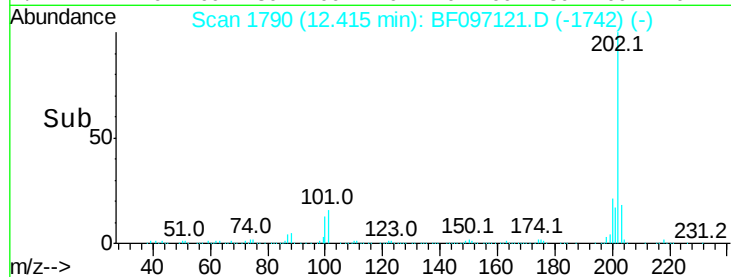
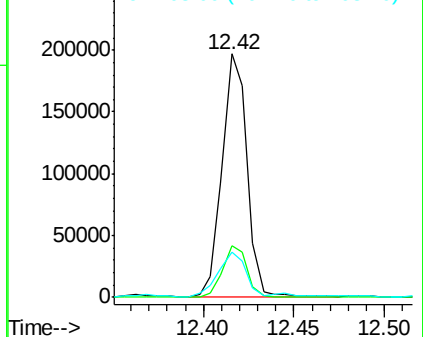
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 187311 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.1  | 17.6  | 26.4   |
| 203       | 18.4  | 14.4  | 21.6   |

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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: 52.351 ng

RT: 12.57 min Scan# 1817

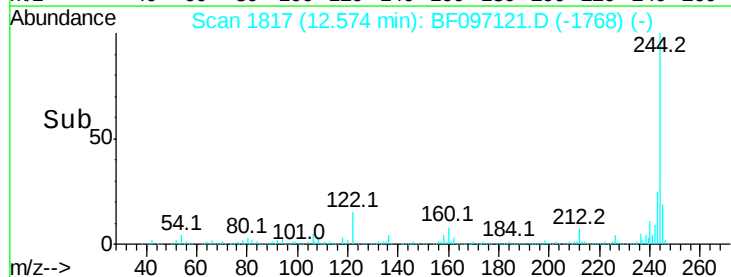
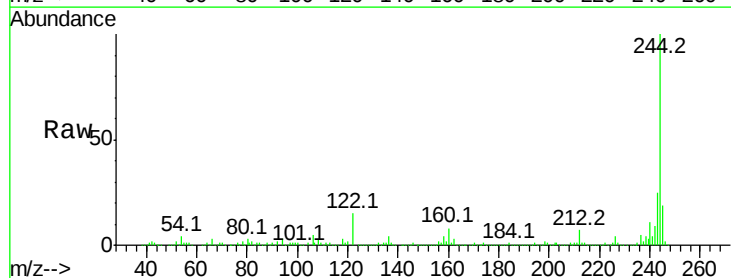
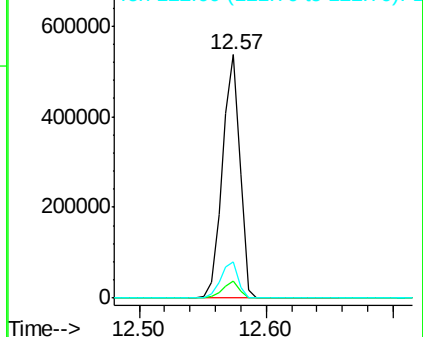
Delta R.T. -0.01 min

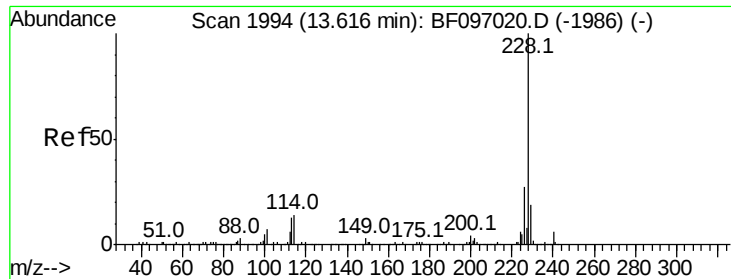
Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 515742 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.9   | 6.0   | 9.0    |
| 122       | 14.9  | 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: 6.666 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

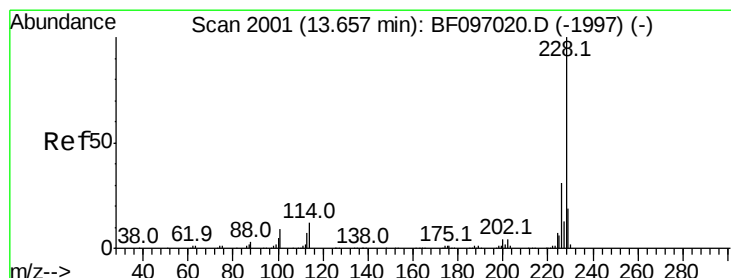
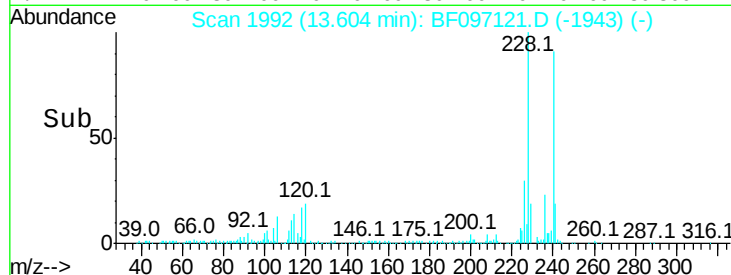
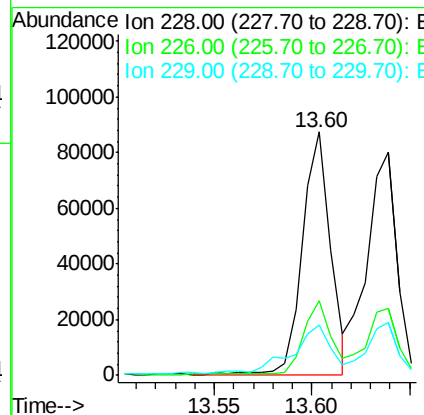
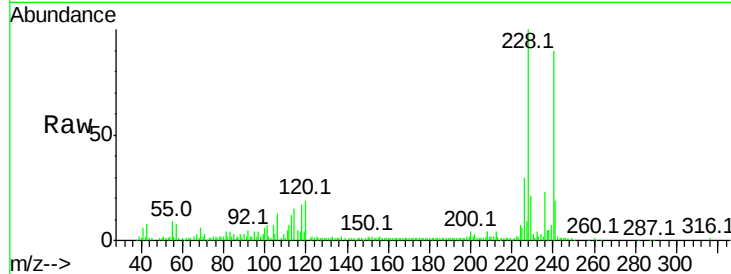
ClientSampleId :

E2-M6-WSW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 86635 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.5  | 22.6  | 33.8  |
| 229       | 20.8  | 16.3  | 24.5  |

Manual Integrations  
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#82

Chrysene

Concen: 6.765 ng

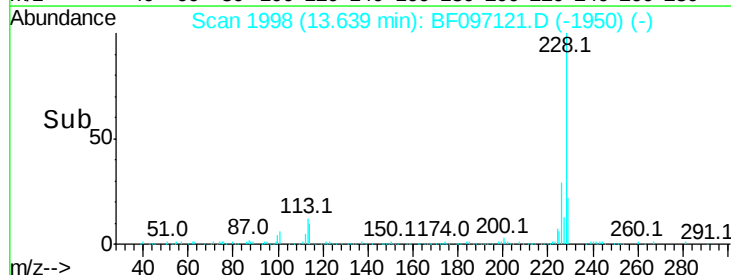
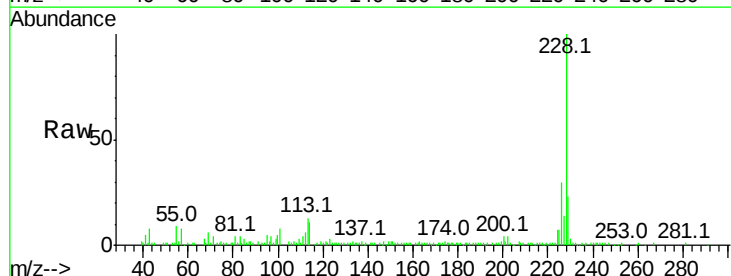
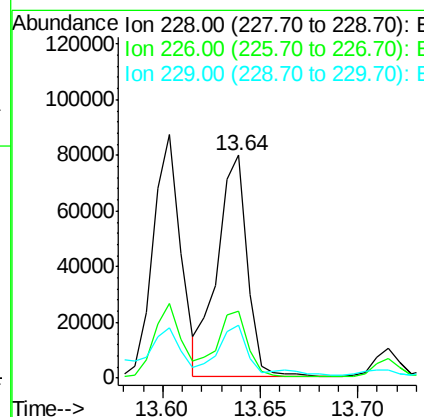
RT: 13.64 min Scan# 1998

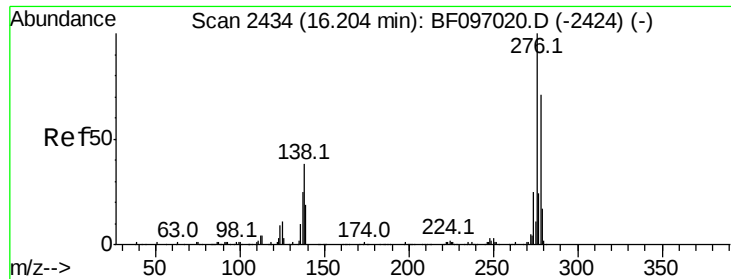
Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 85853 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.1  | 24.9  | 37.3  |
| 229       | 23.5  | 15.8  | 23.6  |





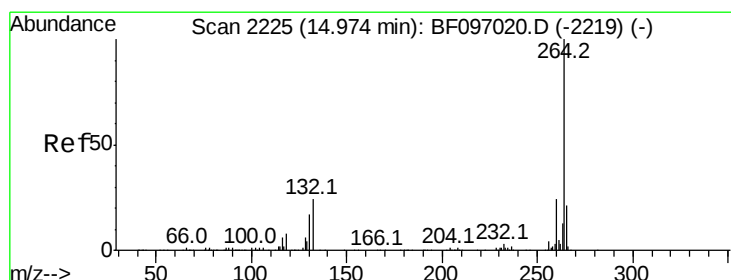
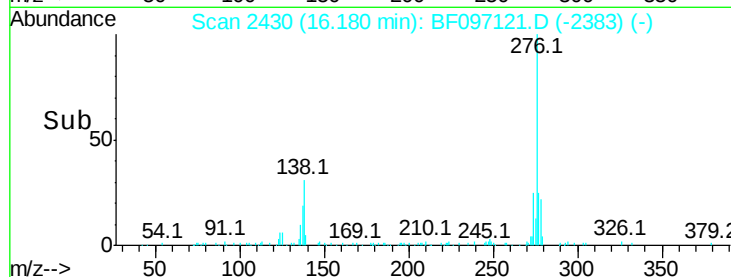
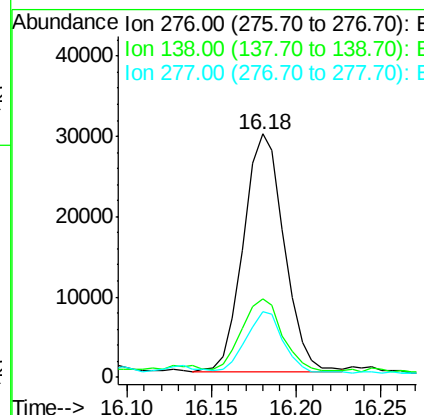
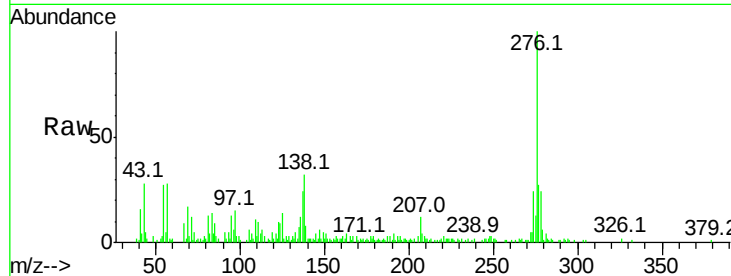
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.567 ng  
RT: 16.18 min Scan# 2430  
Delta R.T. -0.02 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

Instrument :  
BNA\_F  
ClientSampleId :  
E2-M6-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.1  | 27.8  | 41.6  |
| 277     | 24.0  | 20.2  | 30.4  |

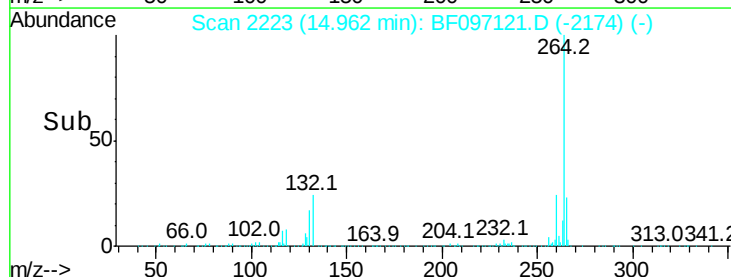
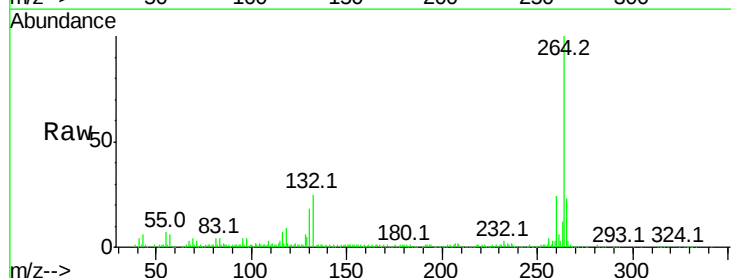
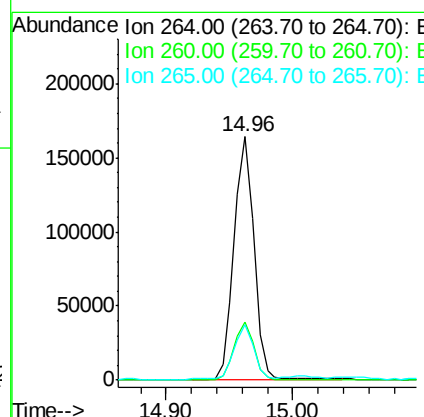
Manual Integrations  
APPROVED

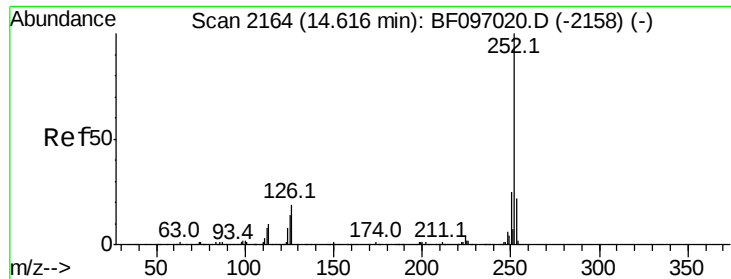
Sohil  
7/28/2017 4:46:42 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 14.96 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF097121.D  
Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 22.8  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 10.845 ng m

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

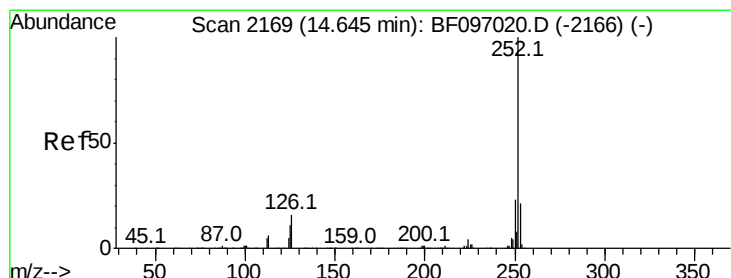
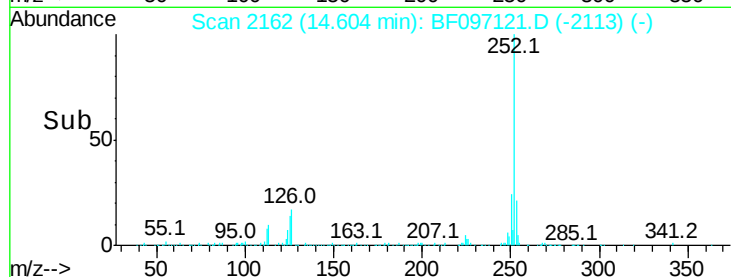
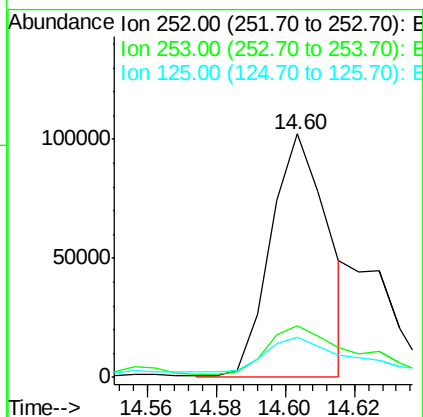
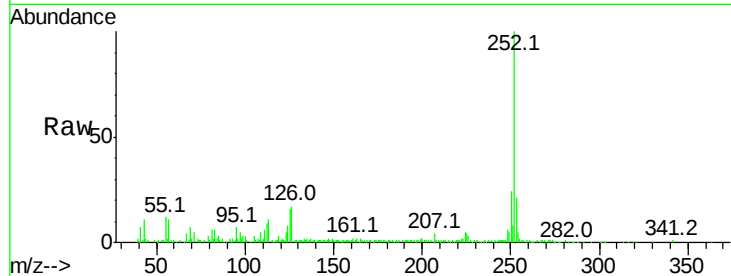
ClientSampled :

E2-M6-WSW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.2  | 18.1  | 27.1  |
| 125     | 16.2  | 9.8   | 14.8  |

Manual Integrations  
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#88

Benzo(k)fluoranthene

Concen: 4.097 ng m

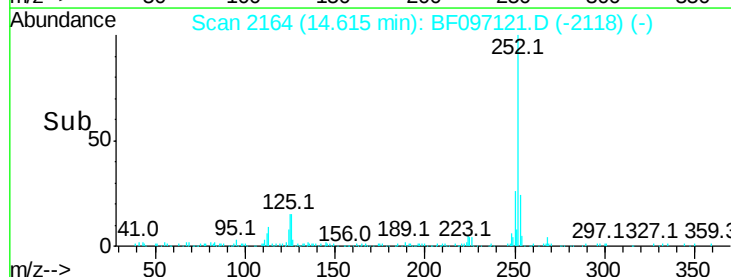
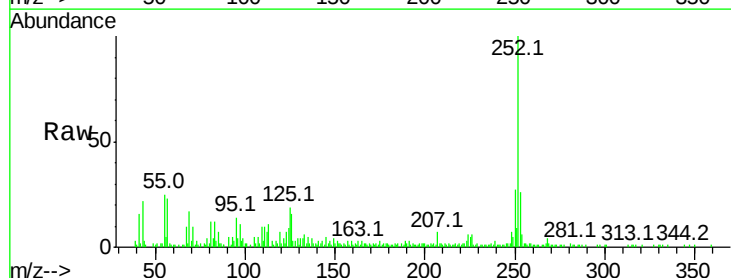
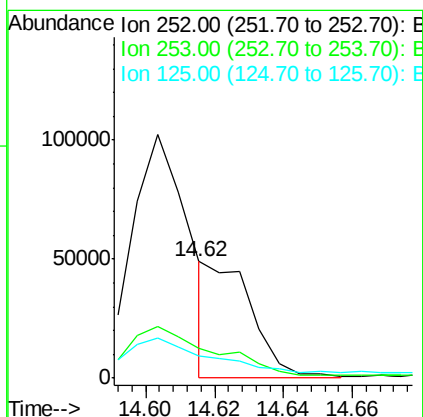
RT: 14.62 min Scan# 2164

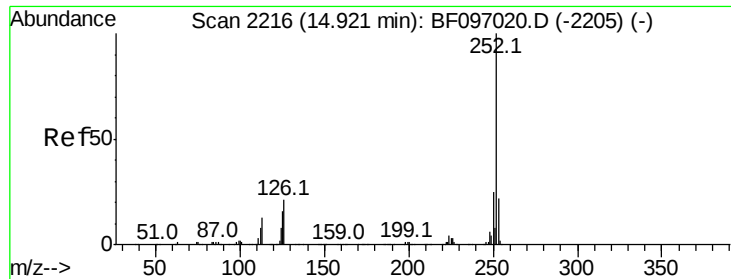
Delta R.T. -0.03 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 18.4  | 27.6  |
| 125     | 19.2  | 13.1  | 19.7  |





#89

Benzo(a)pyrene

Concen: 8.294 ng

RT: 14.91 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

Instrument :

BNA\_F

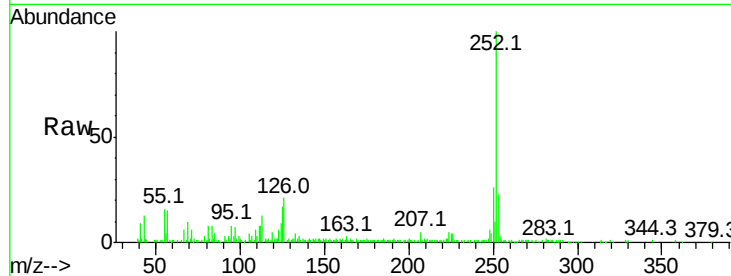
ClientSampled :

E2-M6-WSW

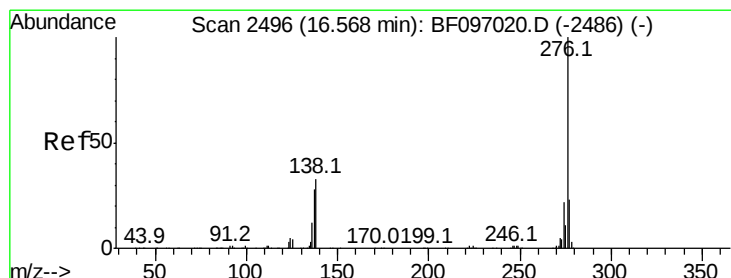
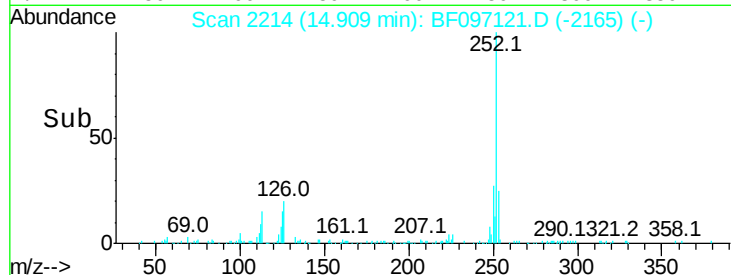
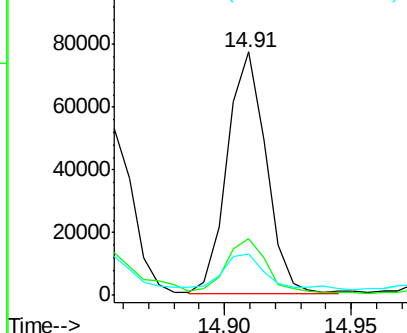
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 82598 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.5  | 26.3  |
| 125       | 17.0  | 11.0  | 16.4  |

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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



#91

Benzo(g,h,i)perylene

Concen: 6.112 ng

RT: 16.54 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BF097121.D

Acq: 27 Jul 2017 14:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 52347 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.5  | 18.6  | 28.0  |
| 138       | 29.6  | 25.4  | 38.0  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

