

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\  
 Data File : BF097345.D  
 Acq On : 4 Aug 2017 4:32  
 Operator : SJ/JU  
 Sample : I4522-03  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5-SS2

Manual Integrations  
 APPROVED

Sohil  
 8/4/2017 5:31:08 PM

Quant Time: Aug 04 05:50:44 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 04 01:17:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.45  | 152  | 95778    | 20.00   | ng    | -0.05    |
| 21) Naphthalene-d8          | 7.73  | 136  | 369747   | 20.00   | ng    | -0.05    |
| 38) Acenaphthene-d10        | 9.47  | 164  | 151239   | 20.00   | ng    | -0.06    |
| 63) Phenanthrene-d10        | 10.95 | 188  | 220323   | 20.00   | ng    | -0.06    |
| 75) Chrysene-d12            | 13.58 | 240  | 131378   | 20.00   | ng    | -0.05    |
| 86) Perylene-d12            | 14.92 | 264  | 109518   | 20.00   | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.05  | 112  | 668566   | 105.23  | ng    | -0.05    |
| 7) Phenol-d6                | 6.13  | 99   | 854722   | 117.84  | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.02  | 82   | 457900   | 72.65   | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.26 | 330  | 118732   | 99.36   | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 8.80  | 172  | 697464   | 78.26   | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.53 | 244  | 475804   | 73.84   | ng    | -0.06    |
| Target Compounds            |       |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 7.75  | 128  | 194225   | 11.143  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.44  | 142  | 57159    | 5.180   | ng    | 98       |
| 48) Acenaphthylene          | 9.33  | 152  | 85772    | 5.878   | ng    | 97       |
| 49) Dimethylphthalate       | 9.20  | 163  | 113340   | 9.869   | ng    | 99       |
| 51) Acenaphthene            | 9.50  | 154  | 133352   | 15.516  | ng    | 100      |
| 54) Dibenzofuran            | 9.67  | 168  | 109934   | 9.603   | ng    | 99       |
| 57) Fluorene                | 10.02 | 166  | 143405   | 16.667  | ng    | 99       |
| 70) Phenanthrene            | 10.97 | 178  | 1199380  | 101.599 | ng    | 99       |
| 71) Anthracene              | 11.02 | 178  | 410945   | 33.988  | ng    | 99       |
| 72) Carbazole               | 11.18 | 167  | 198132   | 16.662  | ng    | 98       |
| 74) Fluoranthene            | 12.17 | 202  | 1650541  | 142.721 | ng    | 99       |
| 77) Pyrene                  | 12.39 | 202  | 1453385  | 135.130 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.57 | 228  | 814446   | 95.809  | ng    | 98       |
| 82) Chrysene                | 13.60 | 228  | 651970   | 78.544  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.13 | 276  | 282072   | 39.630  | ng    | 94       |
| 87) Benzo(b)fluoranthene    | 14.57 | 252  | 751507m  | 114.152 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.59 | 252  | 221263m  | 35.270  | ng    |          |
| 89) Benzo(a)pyrene          | 14.87 | 252  | 493148   | 81.847  | ng    | 96       |
| 90) Dibenzo(a,h)anthracene  | 16.13 | 278  | 77410    | 15.667  | ng    | 91       |
| 91) Benzo(a,h,i)perylene    | 16.49 | 276  | 262012   | 50.567  | ng    | 98       |

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

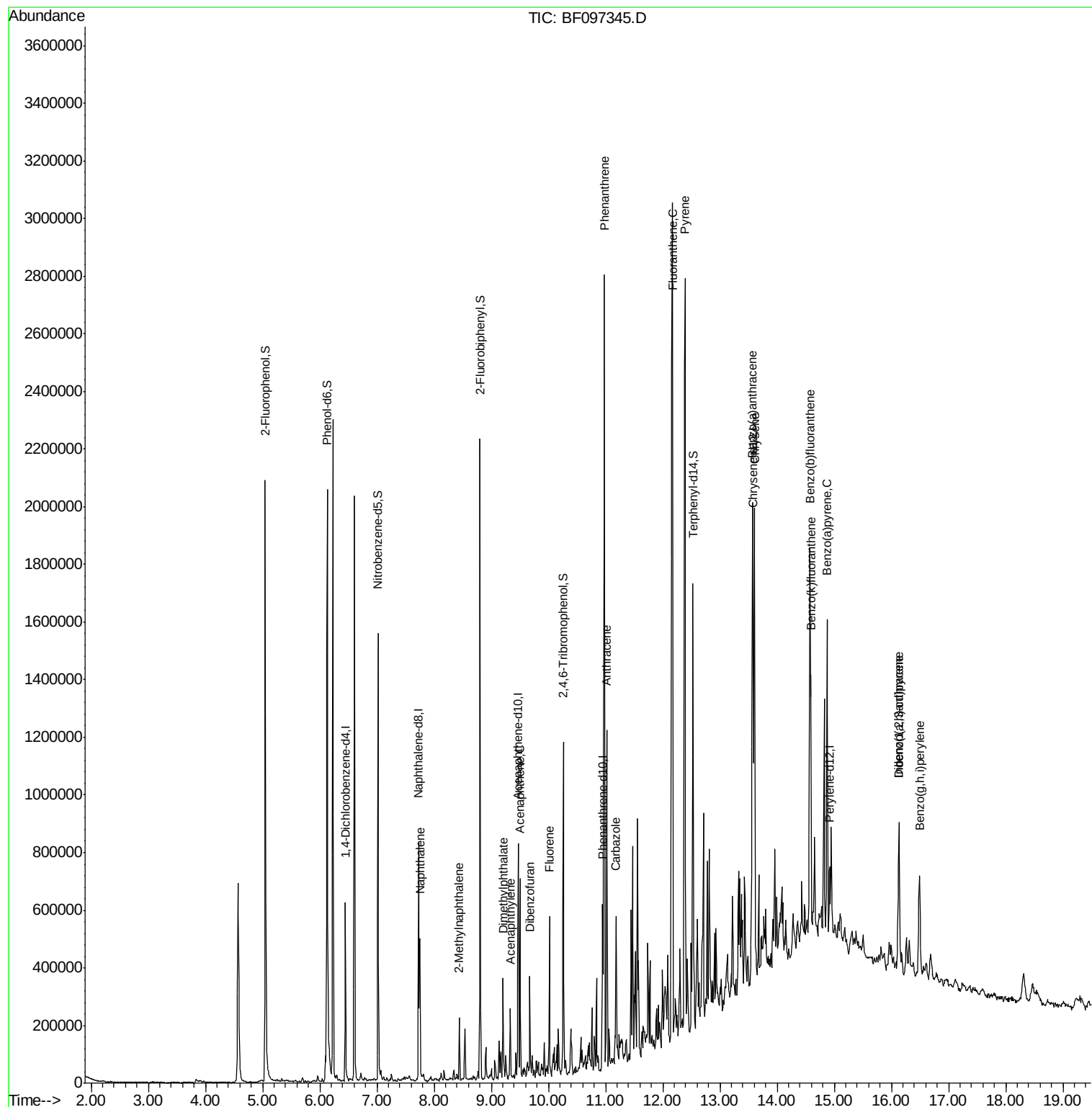
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\  
Data File : BF097345.D  
Acq On : 4 Aug 2017 4:32  
Operator : SJ/JU  
Sample : I4522-03  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

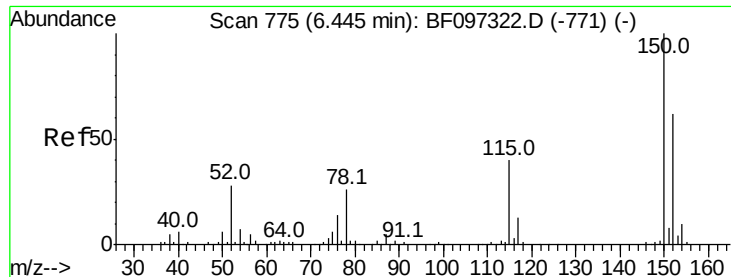
Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

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8/4/2017 5:31:08 PM

Quant Time: Aug 04 05:50:44 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 04 01:17:22 2017  
Response via : Initial Calibration





#1

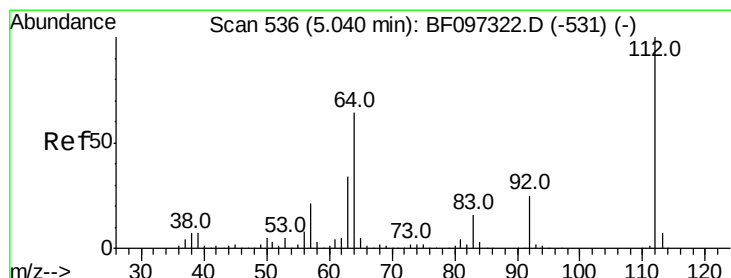
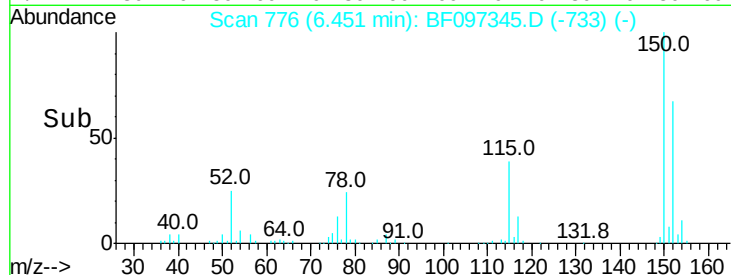
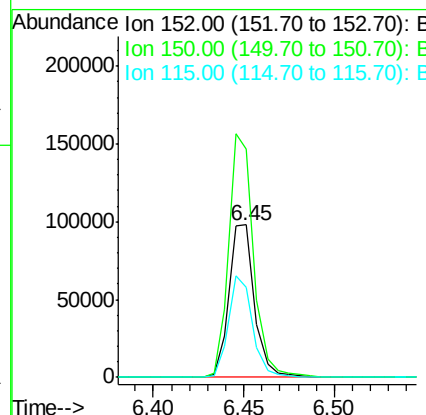
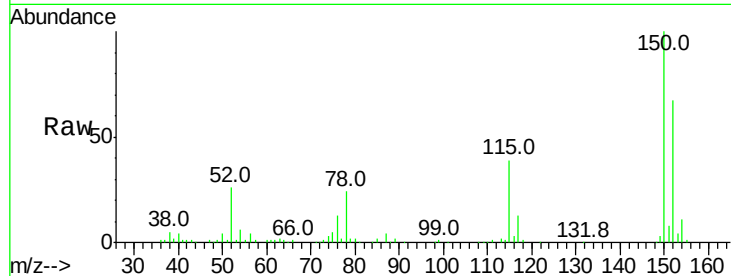
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.45 min Scan# 776  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 126.2 | 189.2 |
| 115     | 58.8  | 52.2  | 78.2  |

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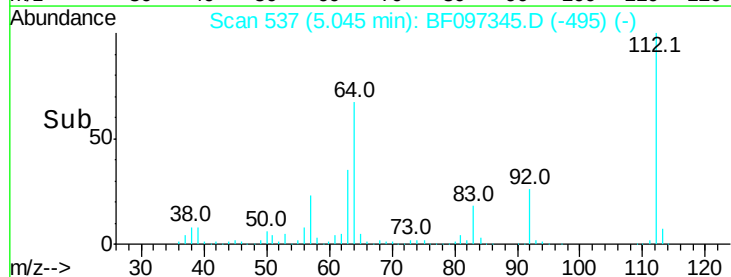
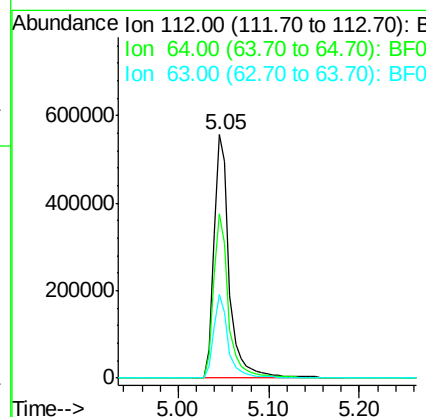
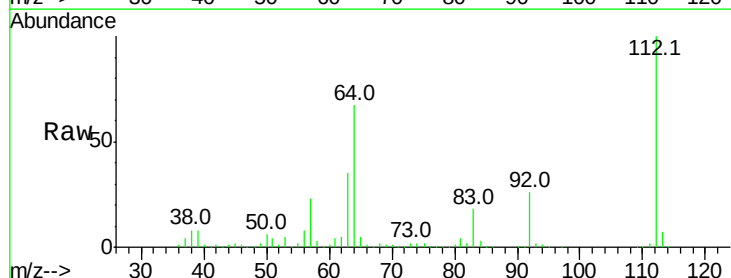
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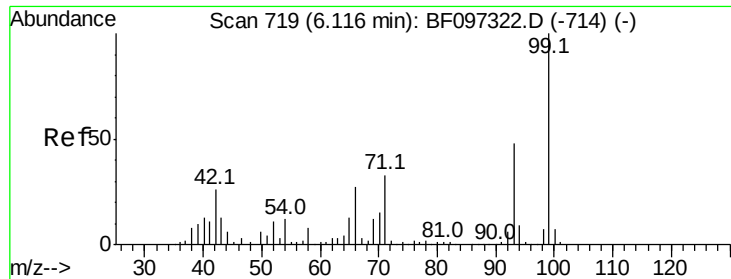


#5

2-Fluorophenol  
Concen: 105.228 ng  
RT: 5.05 min Scan# 537  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.4  | 46.0  | 69.0  |
| 63      | 34.5  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 117.840 ng

RT: 6.13 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

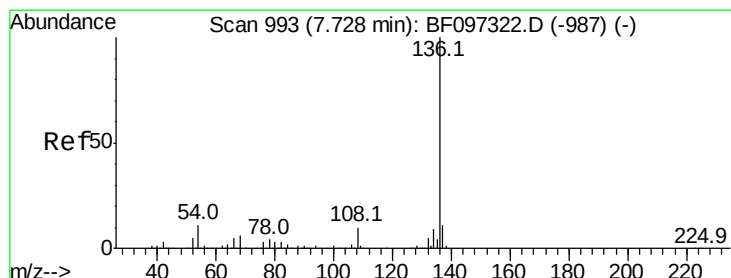
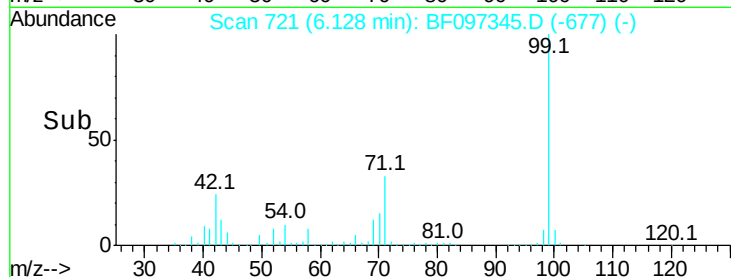
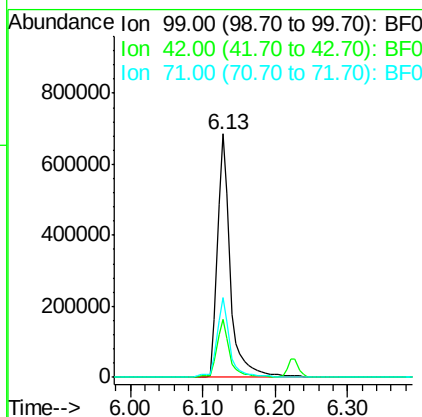
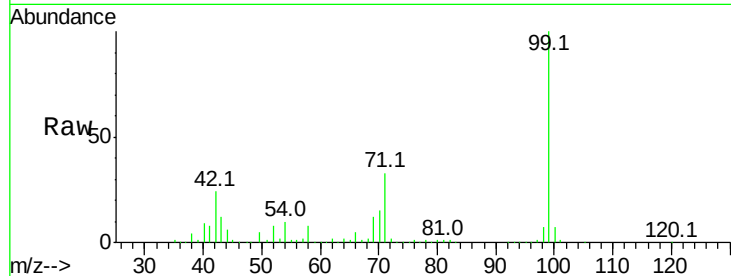
ClientSampled :

TP-5-SS2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 854722 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 24.0  | 13.5  | 20.3#  |
| 71        | 32.9  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.000 ng

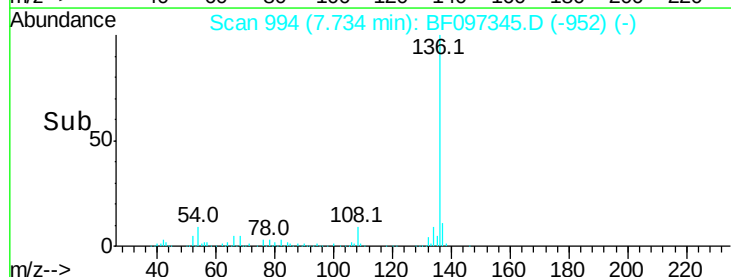
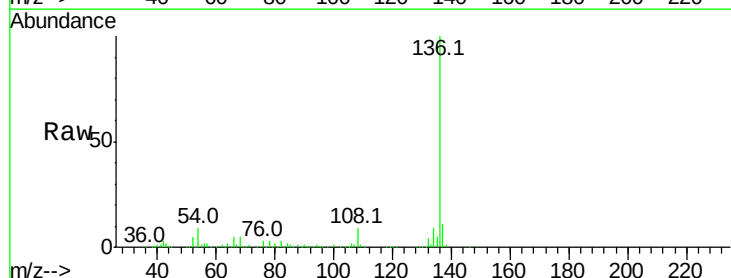
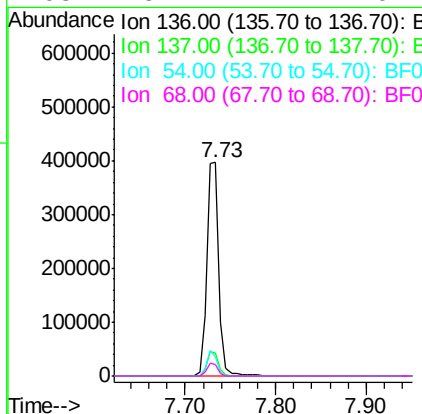
RT: 7.73 min Scan# 994

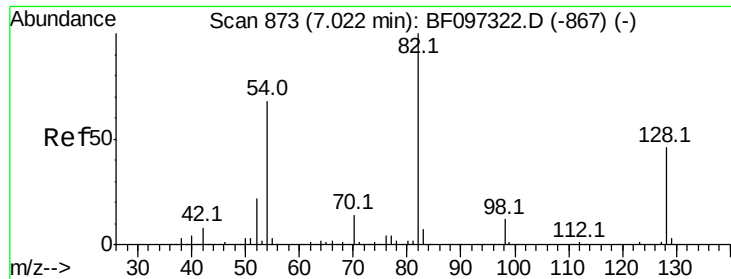
Delta R.T. -0.05 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 369747 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.8  | 8.5   | 12.7   |
| 54        | 9.1   | 4.9   | 7.3#   |
| 68        | 5.2   | 4.1   | 6.1    |





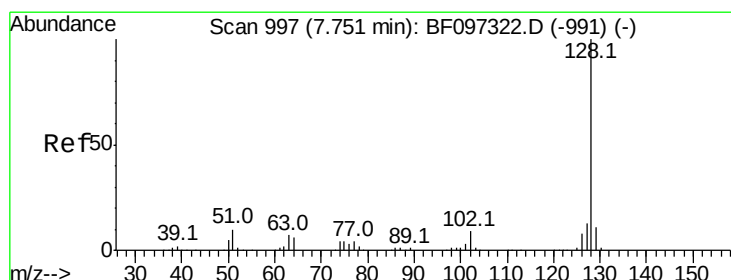
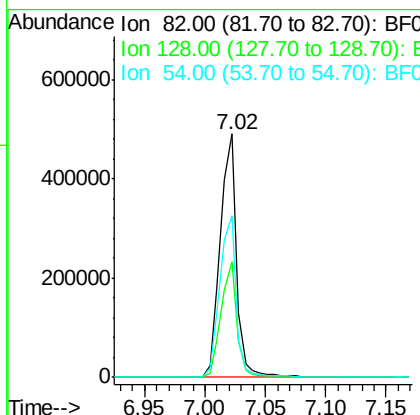
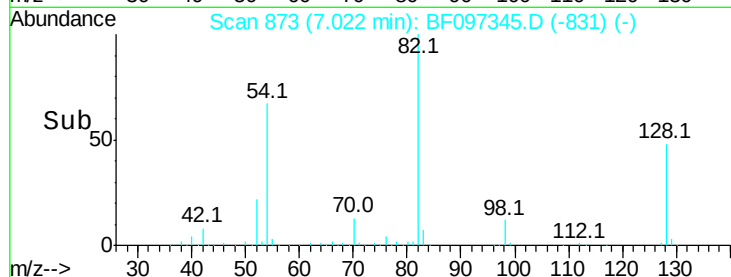
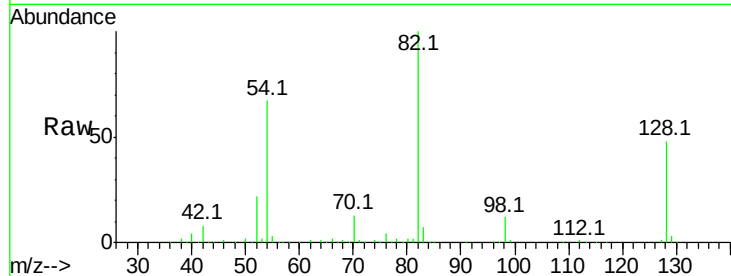
#23  
 Nitrobenzene-d5  
 Concen: 72.650 ng  
 RT: 7.02 min Scan# 873  
 Delta R.T. -0.05 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5-SS2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 457900 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.6  | 34.0  | 51.0   |
| 54        | 66.5  | 42.2  | 63.2   |

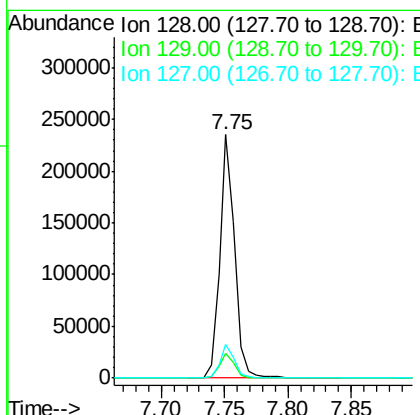
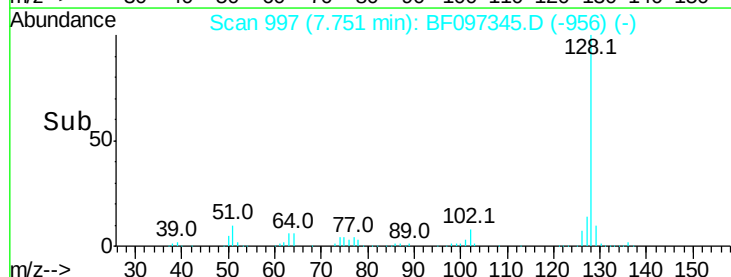
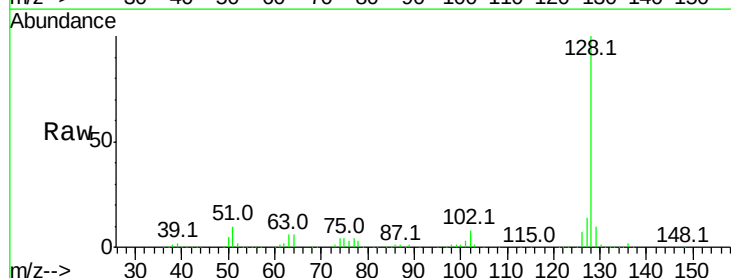
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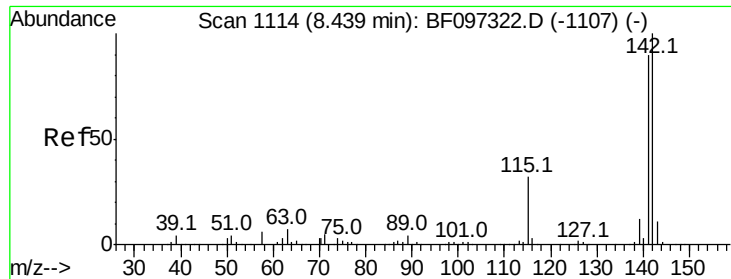
Sohil  
 8/4/2017 5:31:08 PM



#31  
 Naphthalene  
 Concen: 11.143 ng  
 RT: 7.75 min Scan# 997  
 Delta R.T. -0.06 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 194225 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.1  | 9.0   | 13.6   |
| 127       | 13.7  | 10.8  | 16.2   |





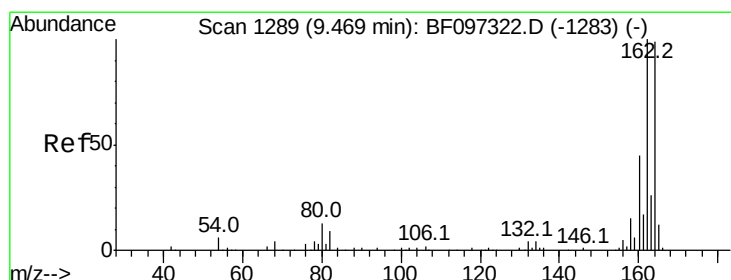
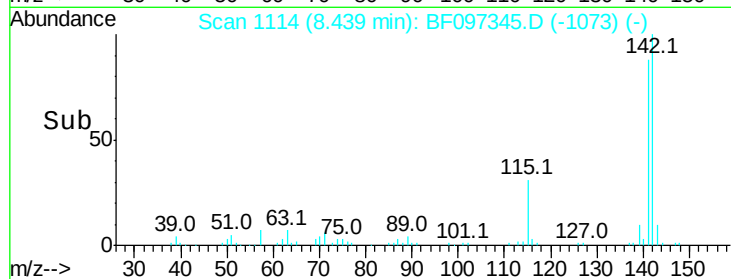
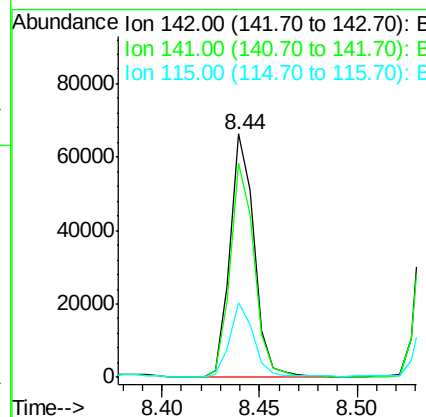
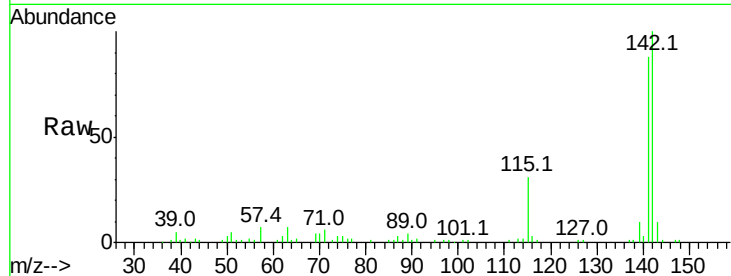
#37  
2-Methylnaphthalene  
Concen: 5.180 ng  
RT: 8.44 min Scan# 1114  
Delta R.T. -0.06 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 57159 |       |       |
| 141     | 88.0  |       | 71.3  | 106.9 |
| 115     | 30.9  |       | 27.1  | 40.7  |

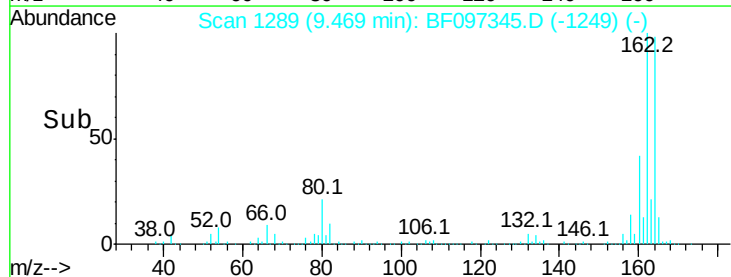
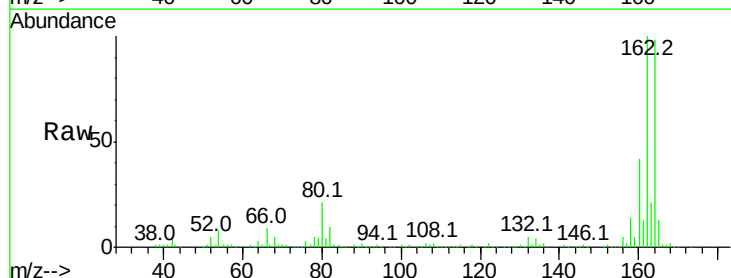
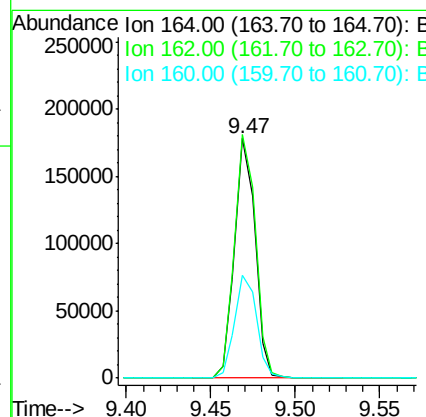
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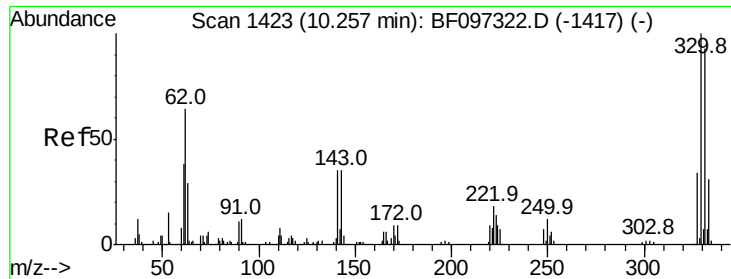
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8/4/2017 5:31:08 PM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.47 min Scan# 1289  
Delta R.T. -0.06 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 151239 |       |       |
| 162     | 101.6 |        | 82.6  | 123.8 |
| 160     | 43.1  |        | 36.2  | 54.2  |





#41

2,4,6-Tribromophenol

Concen: 99.363 ng

RT: 10.26 min Scan# 1424

Delta R.T. -0.06 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

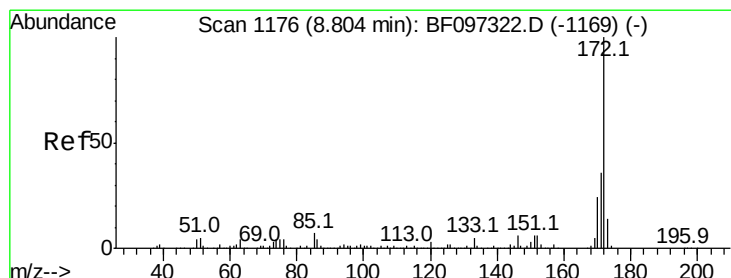
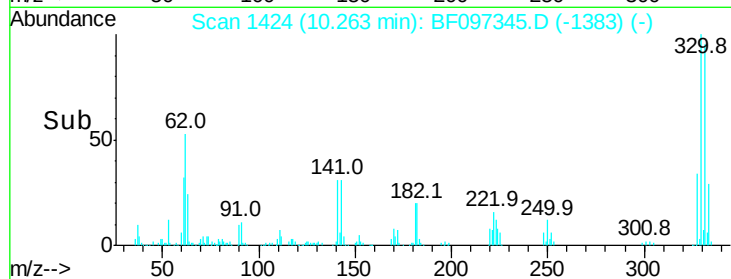
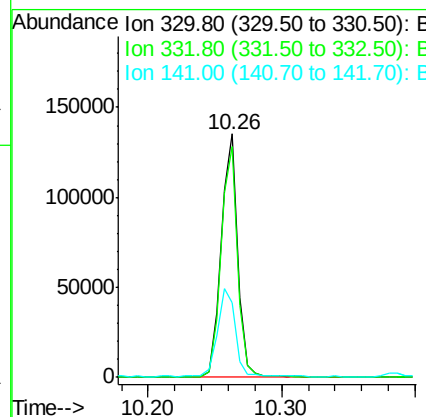
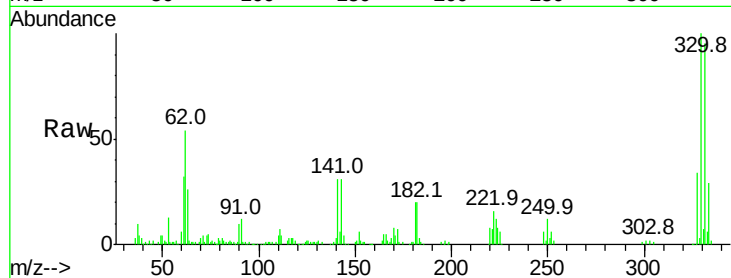
ClientSampled :

TP-5-SS2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 118732 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.1  | 76.6  | 115.0  |
| 141       | 39.6  | 31.4  | 47.2   |

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#44

2-Fluorobiphenyl

Concen: 78.264 ng

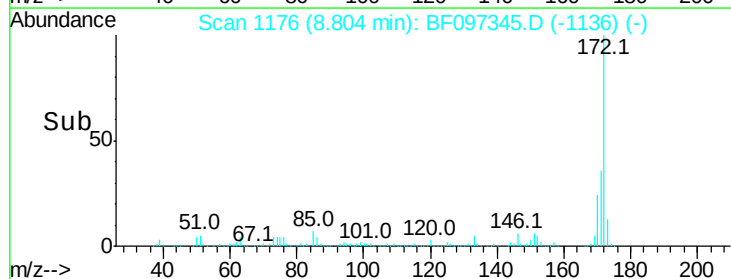
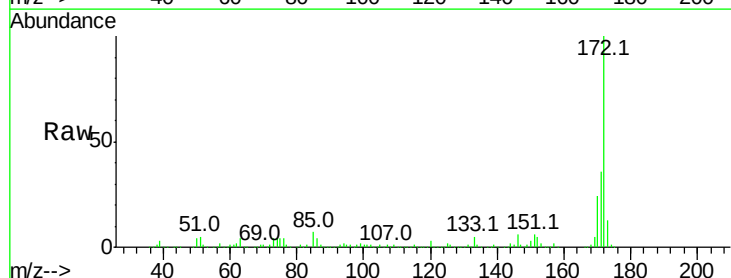
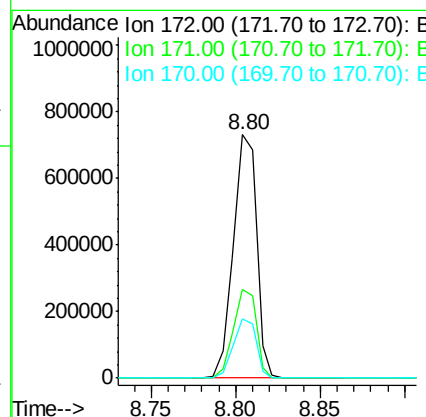
RT: 8.80 min Scan# 1176

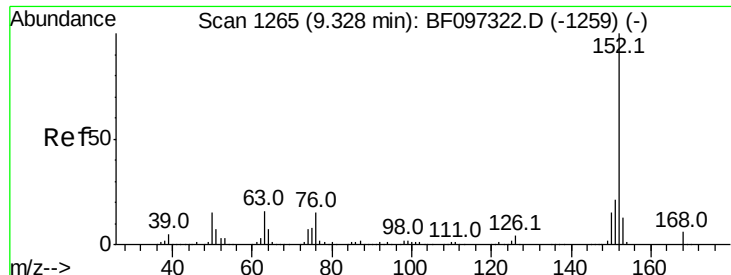
Delta R.T. -0.06 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 697464 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.2  | 29.6  | 44.4   |
| 170       | 24.3  | 19.8  | 29.8   |





#48

Acenaphthylene

Concen: 5.878 ng

RT: 9.33 min Scan# 1266

Delta R.T. -0.06 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

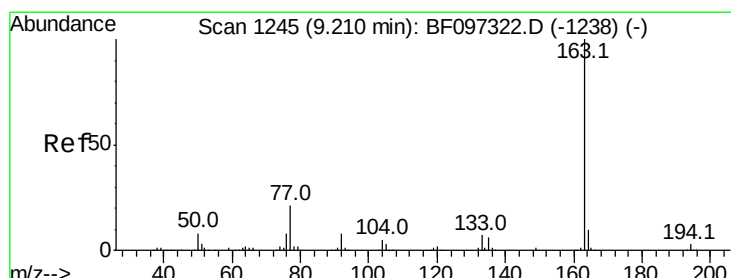
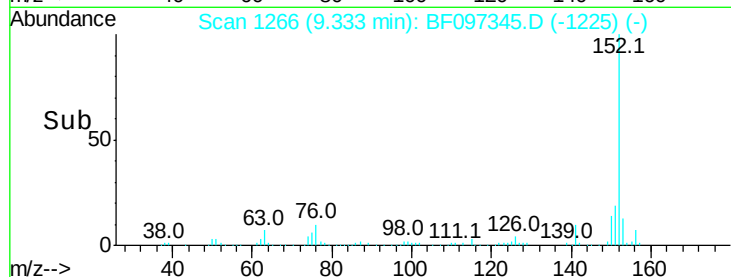
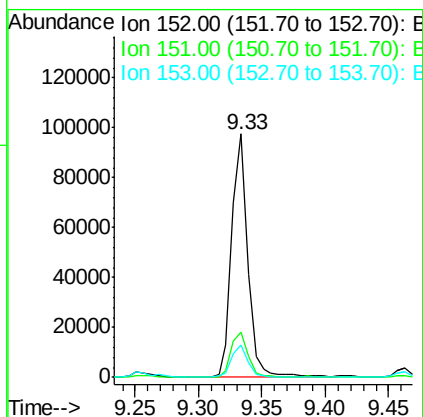
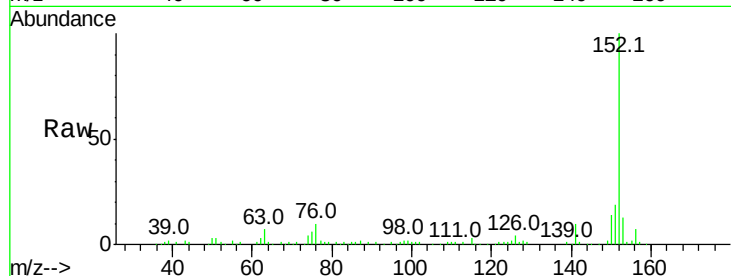
ClientSampled :

TP-5-SS2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 85772 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 18.6  | 16.8  | 25.2  |
| 153       | 13.5  | 10.8  | 16.2  |

Manual Integrations  
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#49

Dimethylphthalate

Concen: 9.869 ng

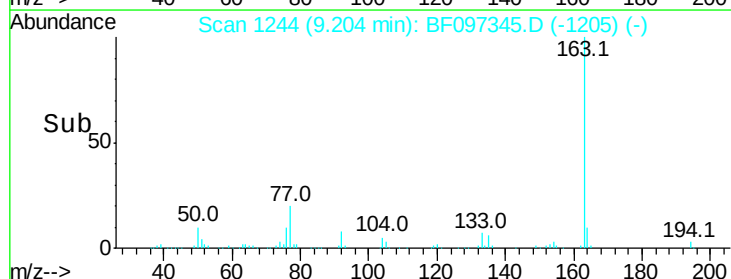
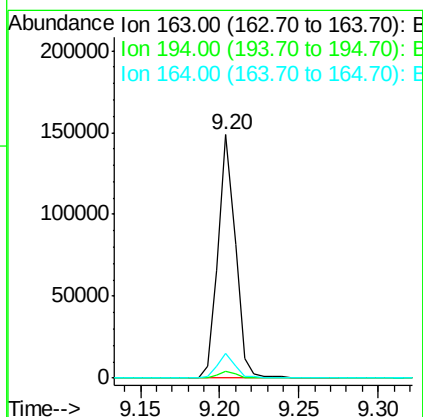
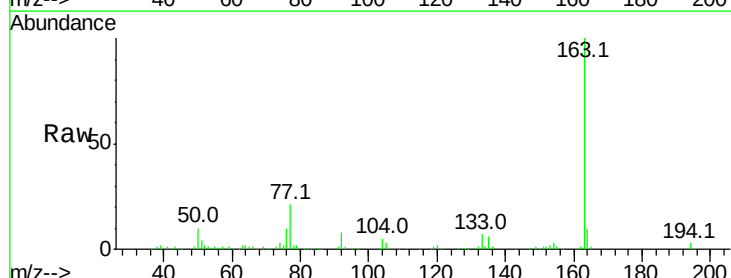
RT: 9.20 min Scan# 1244

Delta R.T. -0.07 min

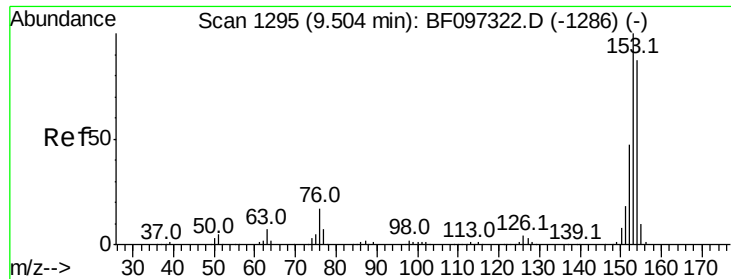
Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 113340 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 2.9   | 2.6   | 4.0    |
| 164       | 10.1  | 8.4   | 12.6   |







#51

Acenaphthene

Concen: 15.516 ng

RT: 9.50 min Scan# 1295

Delta R.T. -0.06 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

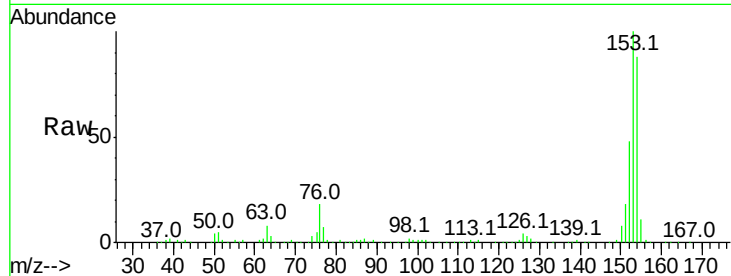
ClientSampled :

TP-5-SS2

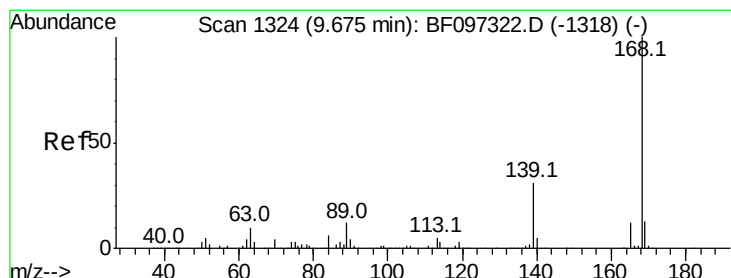
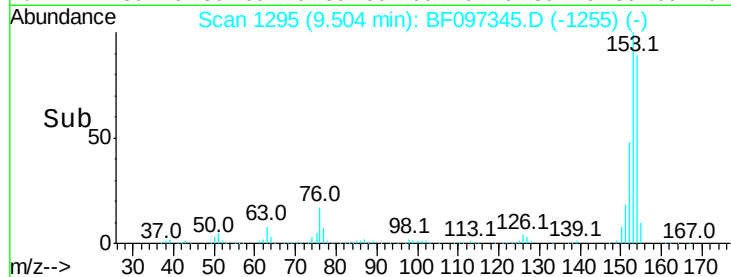
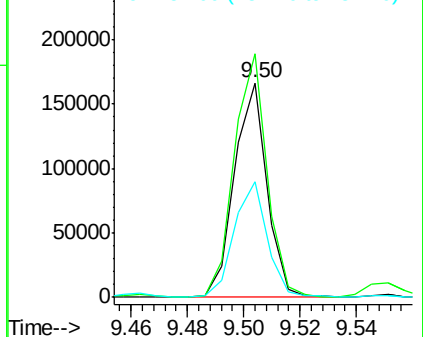
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.4 | 90.5  | 135.7 |
| 152     | 54.0  | 43.6  | 65.4  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.603 ng

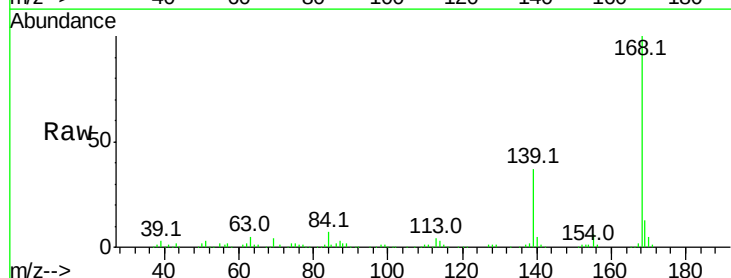
RT: 9.67 min Scan# 1324

Delta R.T. -0.06 min

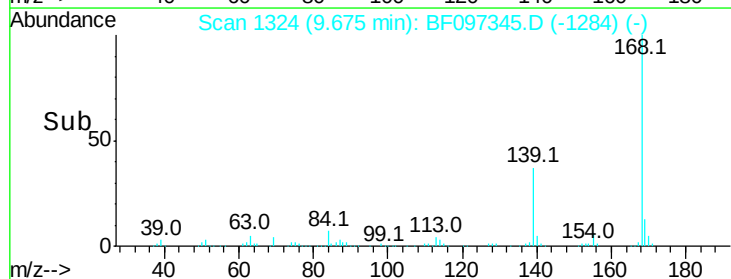
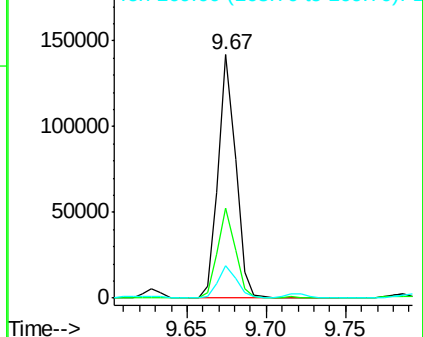
Lab File: BF097345.D

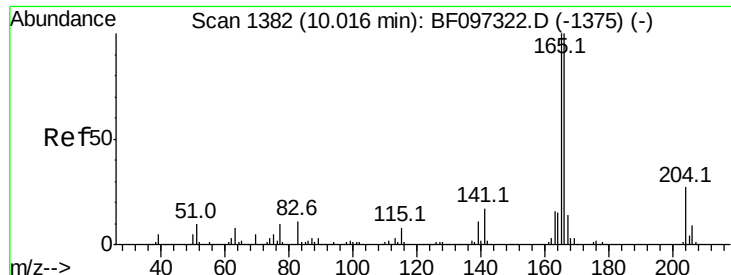
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 37.2  | 30.6  | 45.8  |
| 169     | 13.4  | 10.8  | 16.2  |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





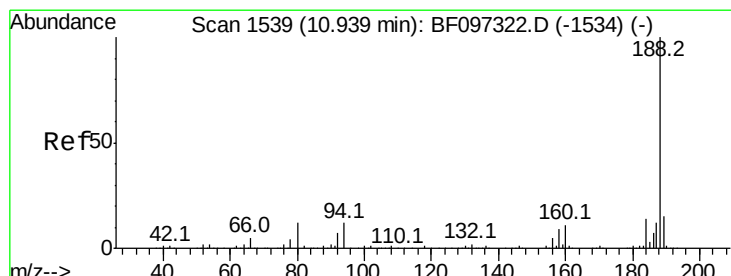
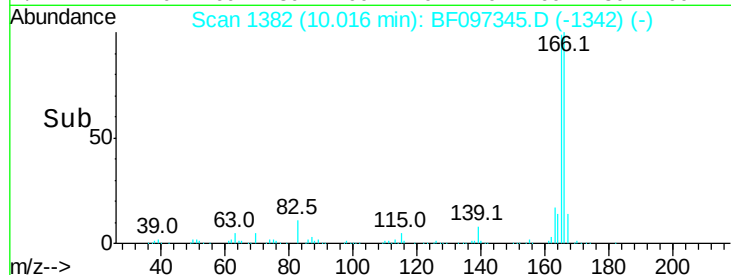
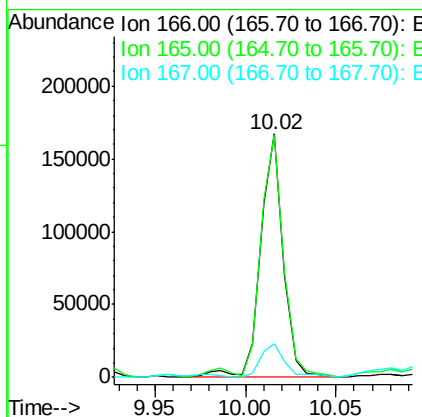
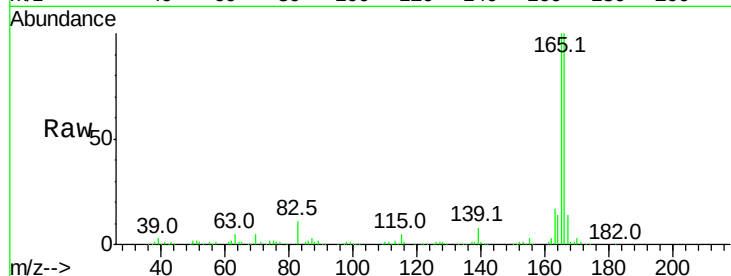
#57  
**Fluorene**  
 Concen: 16.667 ng  
 RT: 10.02 min Scan# 1382  
 Delta R.T. -0.06 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-5-SS2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 143405 |       |       |
| 165     | 99.7  | 78.8   | 118.2 |       |
| 167     | 14.0  | 10.6   | 16.0  |       |

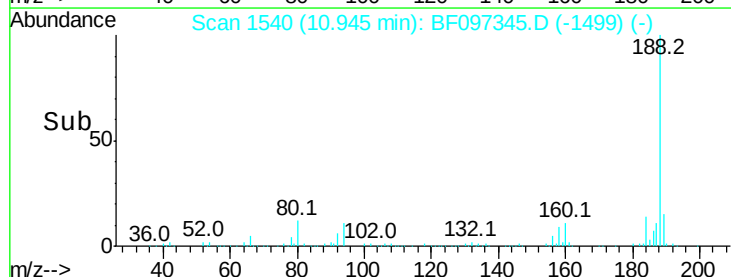
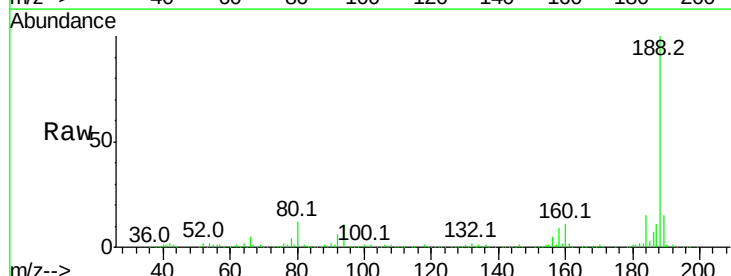
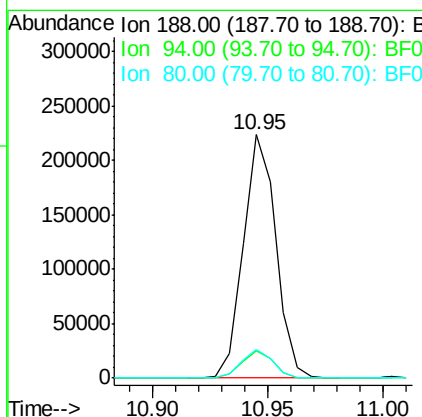
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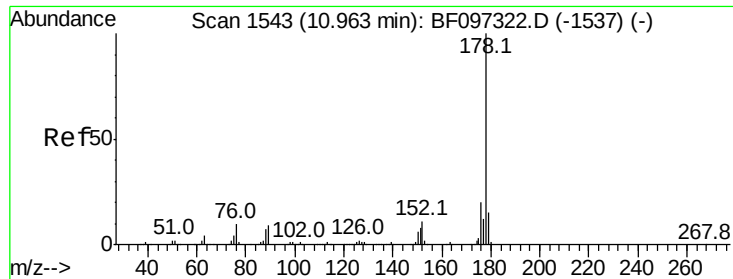
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#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 10.95 min Scan# 1540  
 Delta R.T. -0.06 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 220323 |       |       |
| 94      | 11.2  | 9.4    | 14.2  |       |
| 80      | 11.5  | 10.2   | 15.2  |       |





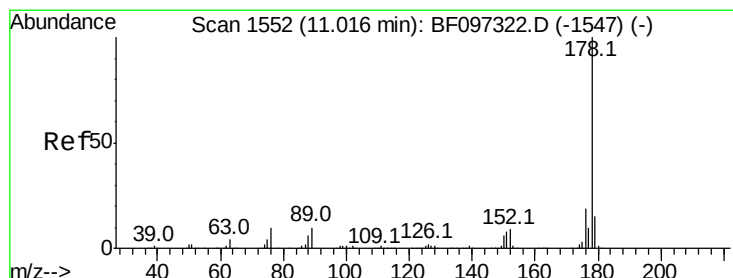
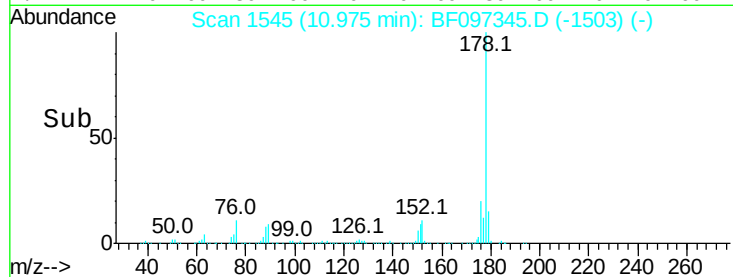
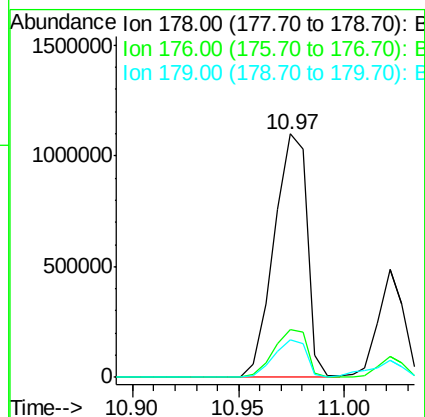
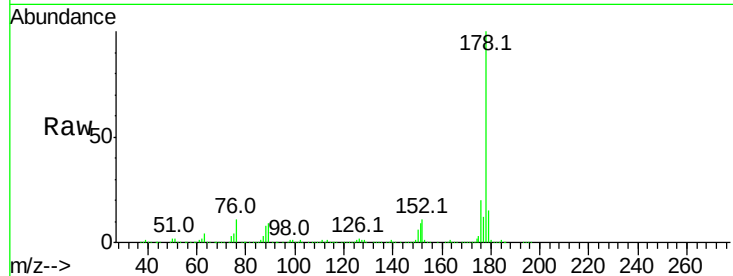
#70  
Phenanthrene  
Concen: 101.599 ng  
RT: 10.97 min Scan# 1545  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampled :  
TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 16.2  | 24.4  |
| 179     | 15.2  | 12.6  | 19.0  |

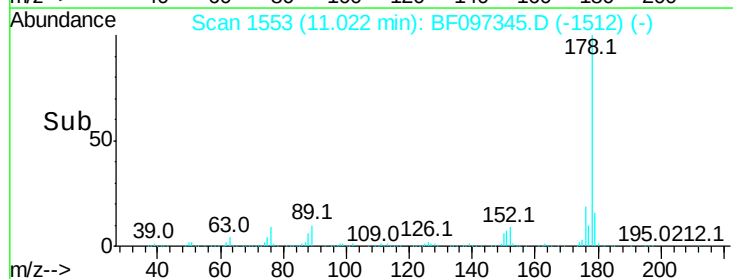
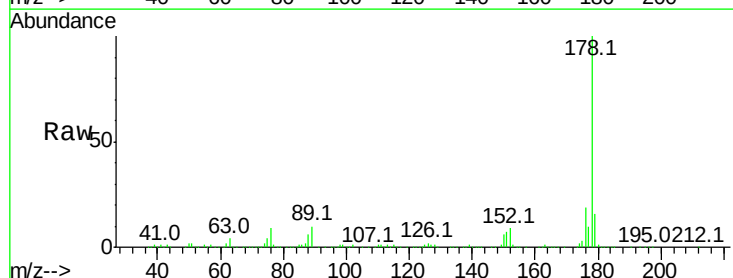
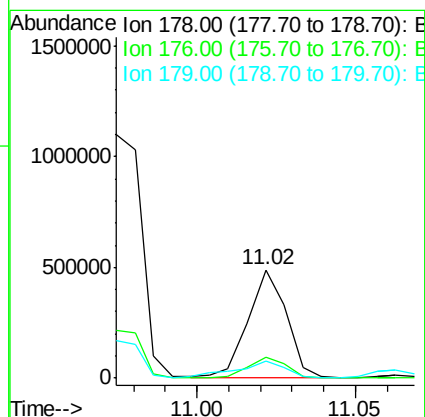
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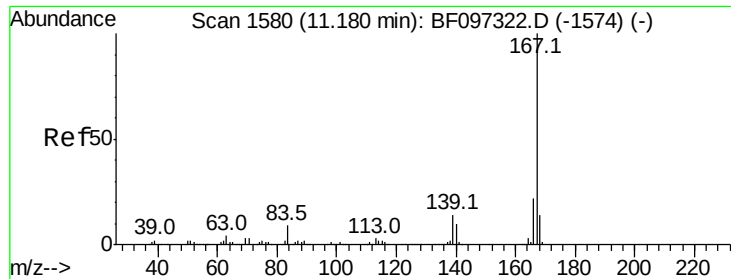
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#71  
Anthracene  
Concen: 33.988 ng  
RT: 11.02 min Scan# 1553  
Delta R.T. -0.06 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

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





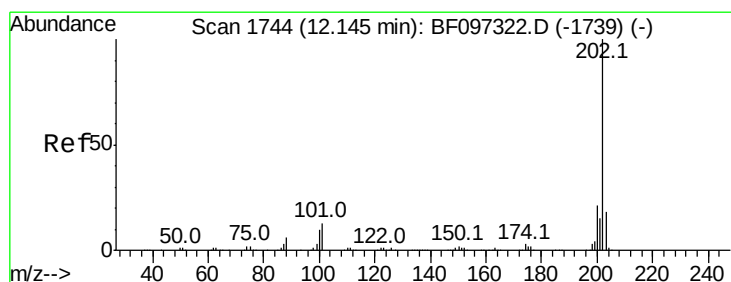
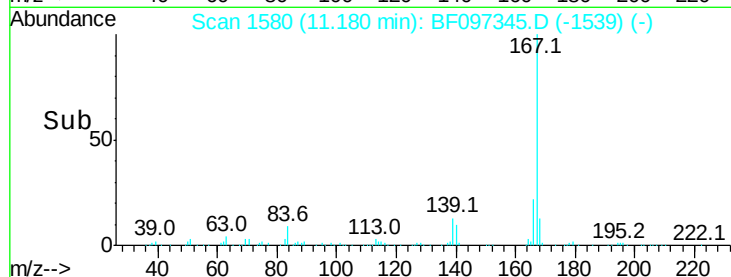
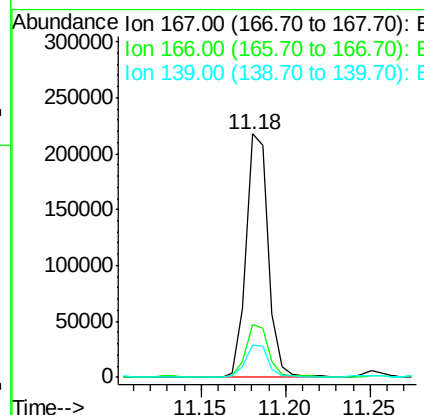
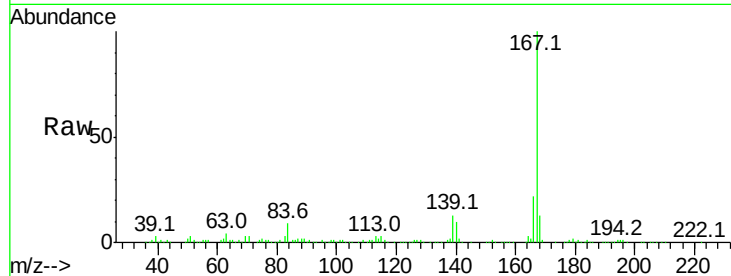
#72  
 Carbazole  
 Concen: 16.662 ng  
 RT: 11.18 min Scan# 1580  
 Delta R.T. -0.06 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5-SS2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 198132 |       |       |
| 166     | 21.8  |        | 18.1  | 27.1  |
| 139     | 13.1  |        | 11.7  | 17.5  |

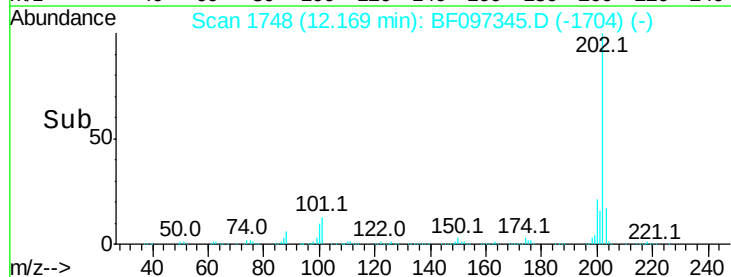
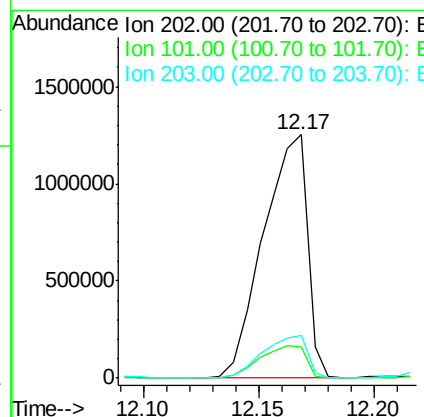
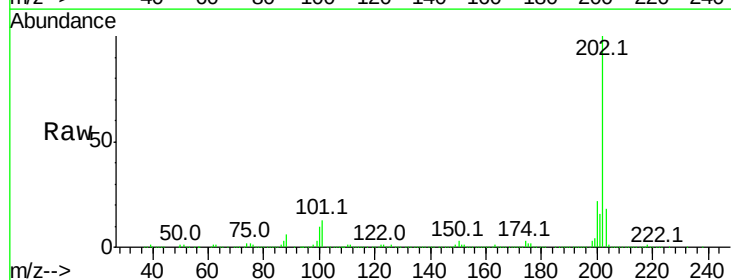
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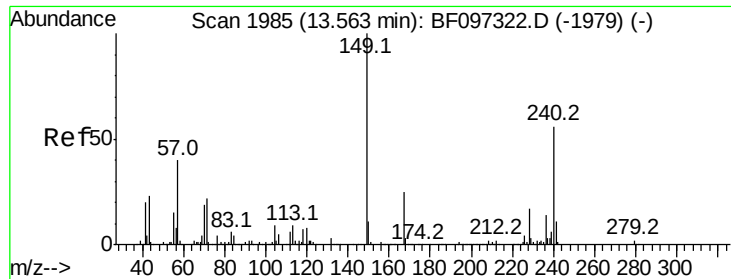
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#74  
 Fluoranthene  
 Concen: 142.721 ng  
 RT: 12.17 min Scan# 1748  
 Delta R.T. -0.04 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1650541 |       |       |
| 101     | 13.0  |         | 0.0   | 33.2  |
| 203     | 17.6  |         | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.58 min Scan# 1988

Delta R.T. -0.05 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

ClientSampleId :

TP-5-SS2

Tot Ion:240 Resp: 131378

Ion Ratio Lower Upper

240 100

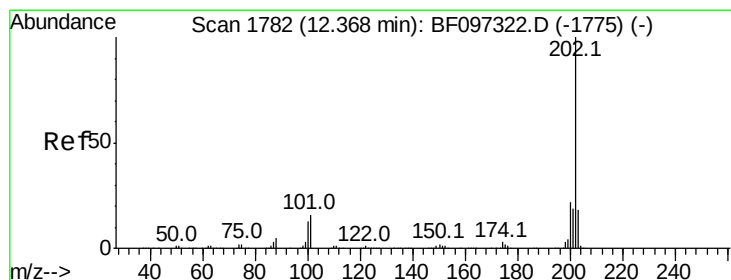
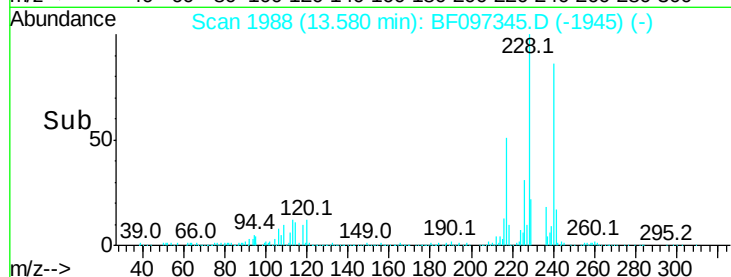
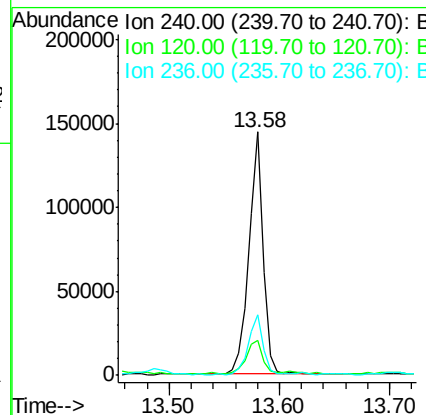
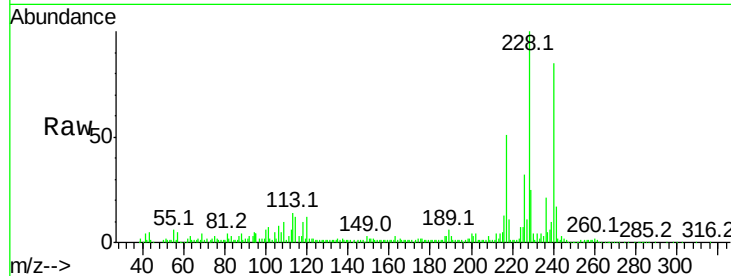
120 14.5 5.8 8.8#

236 24.9 20.5 30.7

Manual Integrations  
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#77

Pyrene

Concen: 135.130 ng

RT: 12.39 min Scan# 1786

Delta R.T. -0.04 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

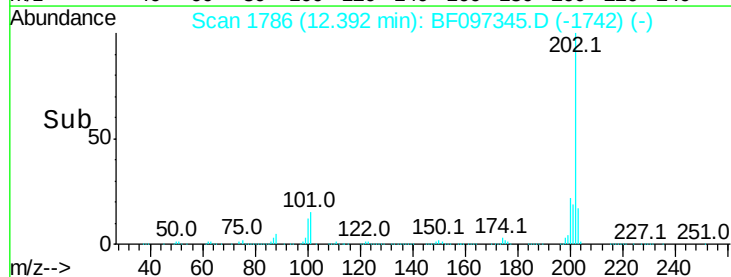
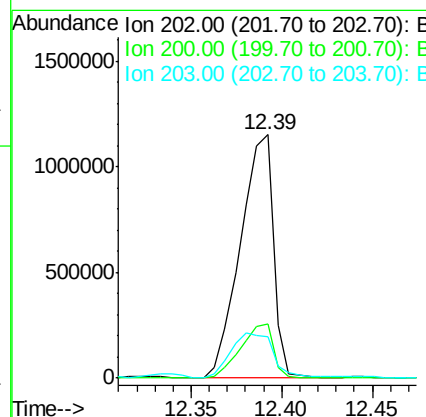
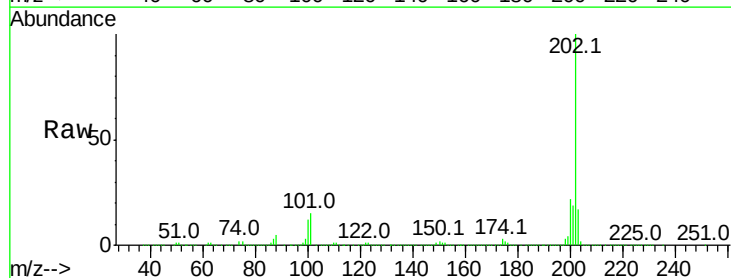
Tgt Ion:202 Resp: 1453385

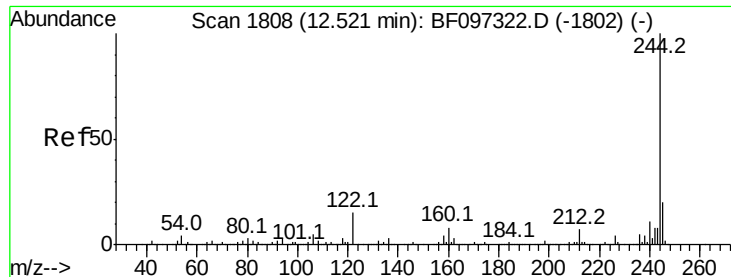
Ion Ratio Lower Upper

202 100

200 22.4 17.6 26.4

203 17.0 14.4 21.6





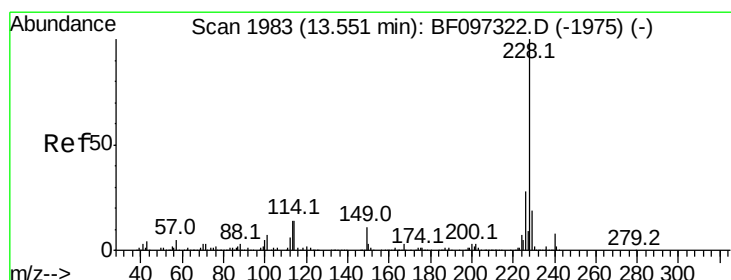
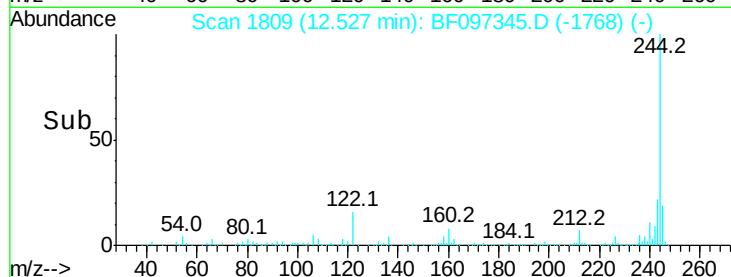
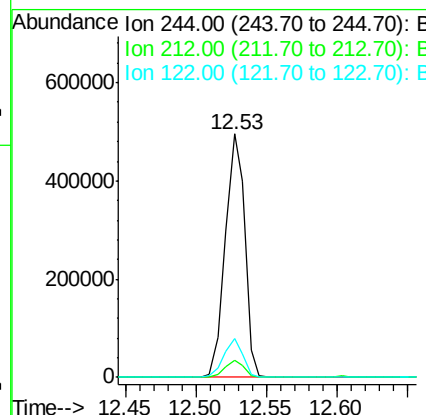
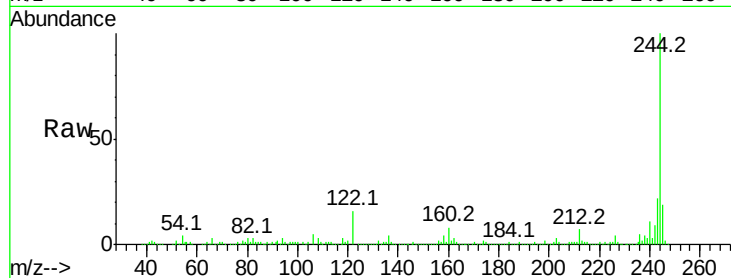
#78  
 Terphenyl-d14  
 Concen: 73.840 ng  
 RT: 12.53 min Scan# 1809  
 Delta R.T. -0.06 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 6.0   | 9.0   |
| 122     | 15.8  | 10.3  | 15.5  |

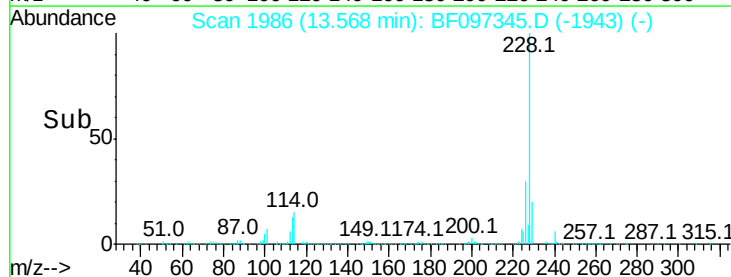
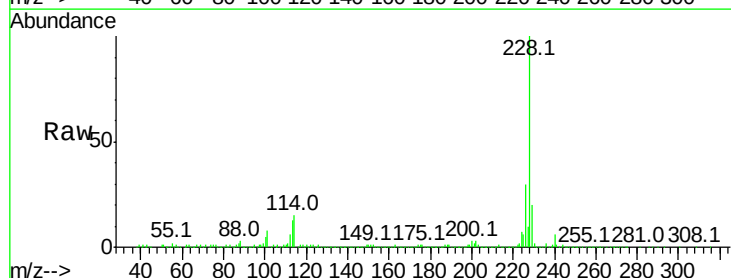
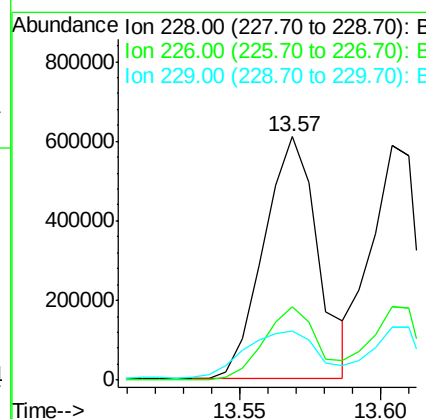
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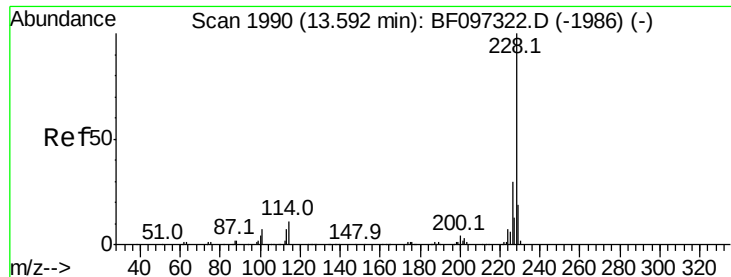
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 8/4/2017 5:31:08 PM



#80  
 Benzo(a)anthracene  
 Concen: 95.809 ng  
 RT: 13.57 min Scan# 1986  
 Delta R.T. -0.05 min  
 Lab File: BF097345.D  
 Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 22.6  | 33.8  |
| 229     | 20.4  | 16.3  | 24.5  |





#82

Chrysene

Concen: 78.544 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.05 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

Instrument :

BNA\_F

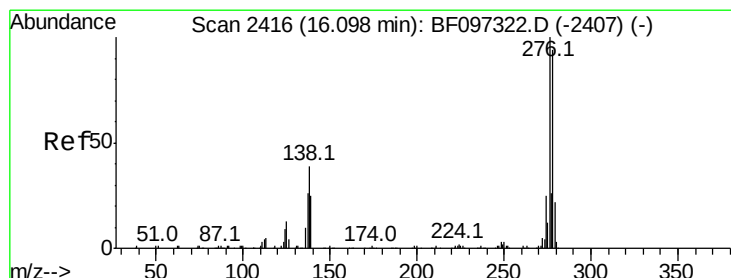
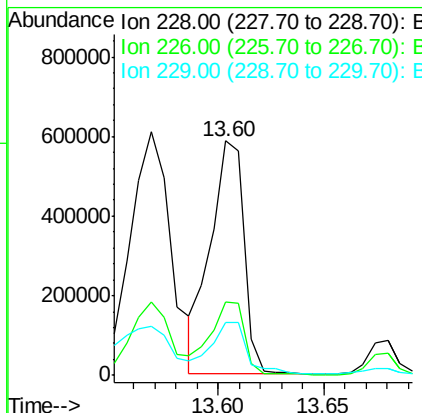
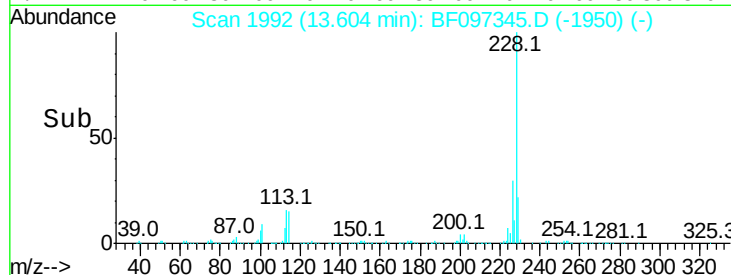
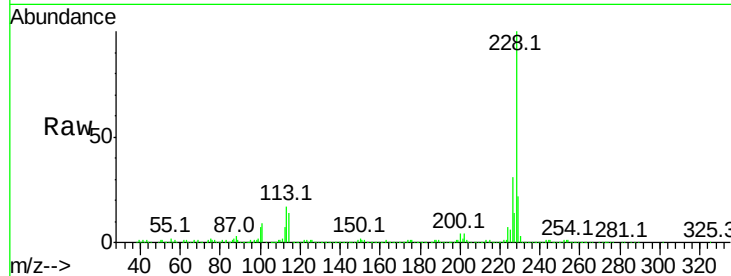
ClientSampled :

TP-5-SS2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 651970 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.2  | 24.9  | 37.3   |
| 229       | 22.4  | 15.8  | 23.6   |

Manual Integrations  
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#85

Indeno(1,2,3-cd)pyrene

Concen: 39.630 ng

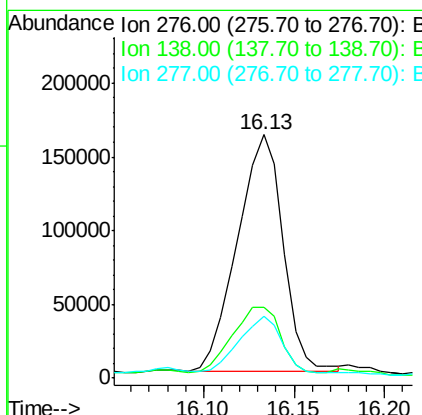
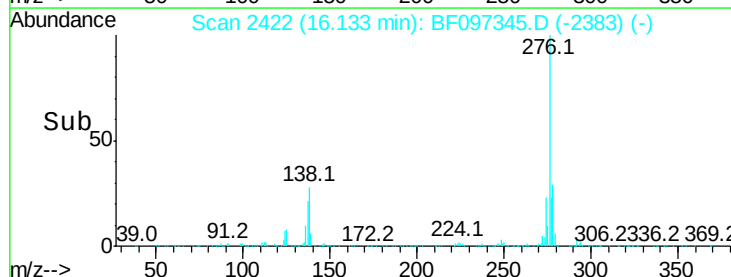
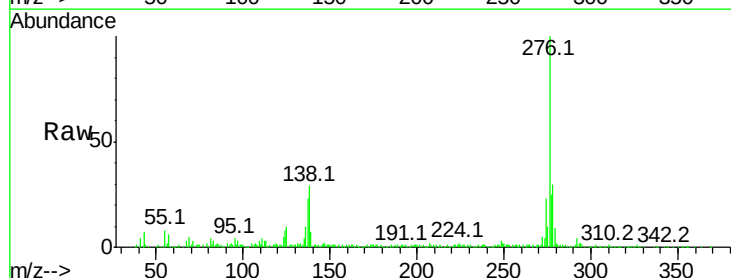
RT: 16.13 min Scan# 2422

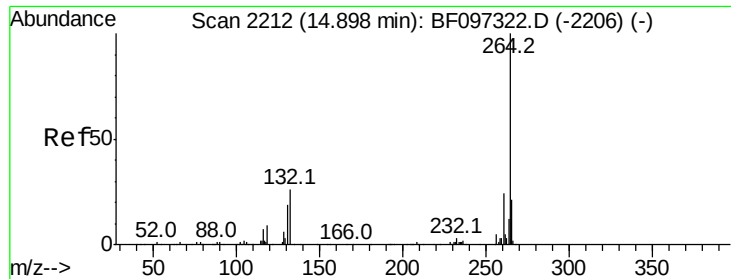
Delta R.T. -0.07 min

Lab File: BF097345.D

Acq: 4 Aug 2017 4:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 282072 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 29.6  | 27.8  | 41.6   |
| 277       | 26.2  | 20.2  | 30.4   |





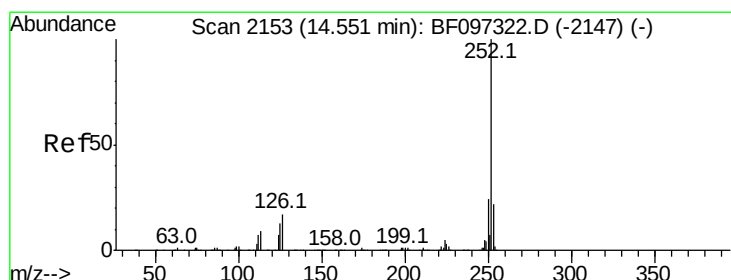
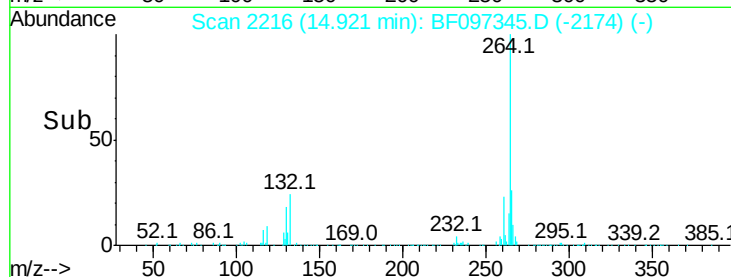
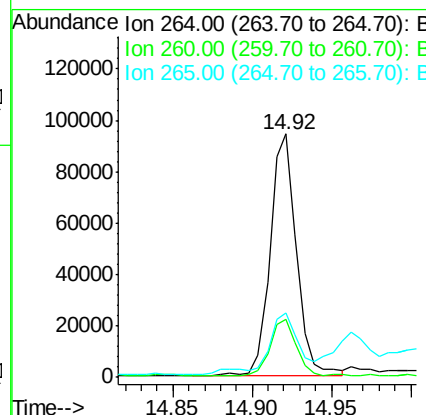
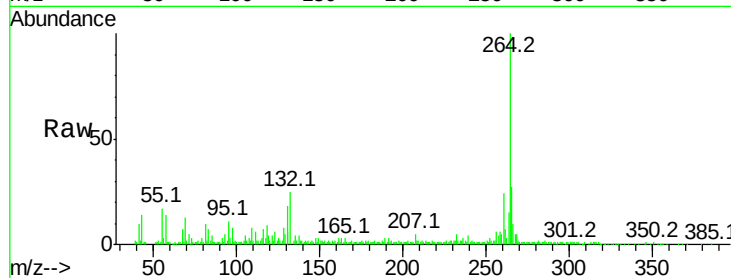
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 14.92 min Scan# 2216  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 26.6  | 17.2  | 25.8  |

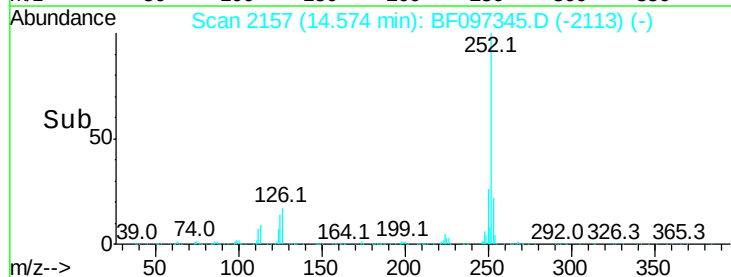
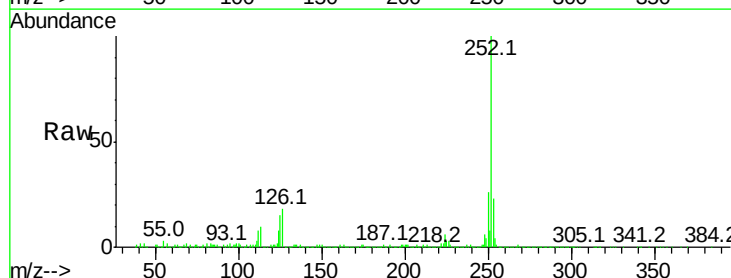
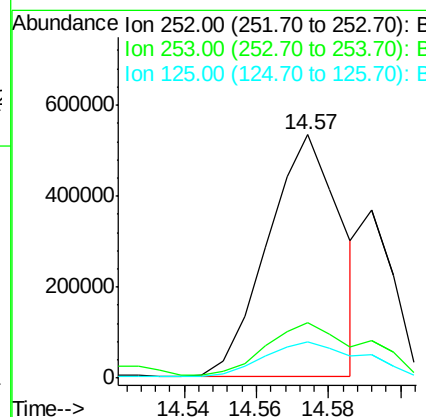
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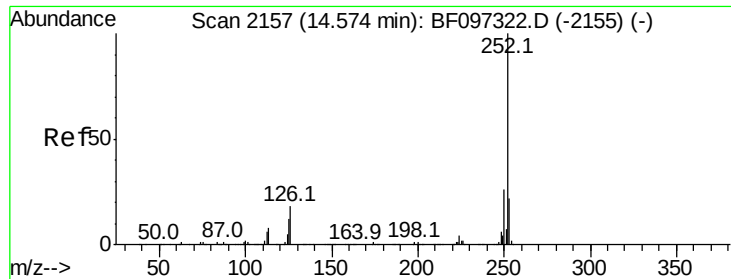


#87  
Benzo(b)fluoranthene  
Concen: 114.152 ng m  
RT: 14.57 min Scan# 2157  
Delta R.T. -0.04 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 18.1  | 27.1  |
| 125     | 14.7  | 9.8   | 14.8  |







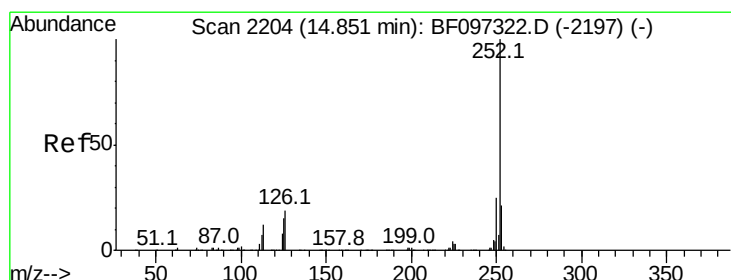
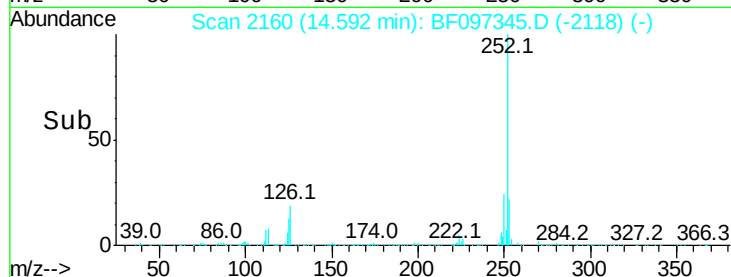
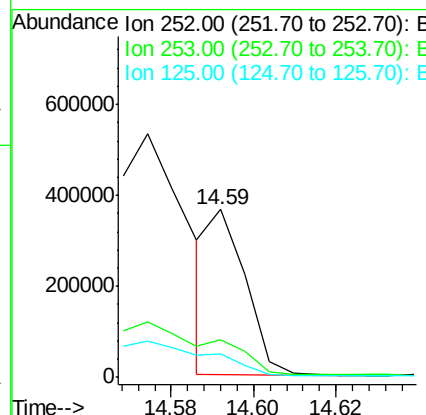
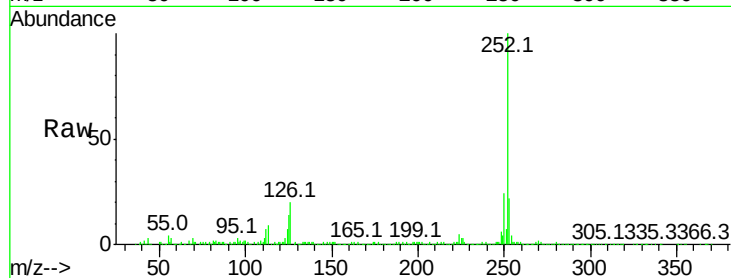
#88  
Benzo(k)fluoranthene  
Concen: 35.270 ng m  
RT: 14.59 min Scan# 2160  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.4  | 27.6  |
| 125     | 13.7  | 13.1  | 19.7  |

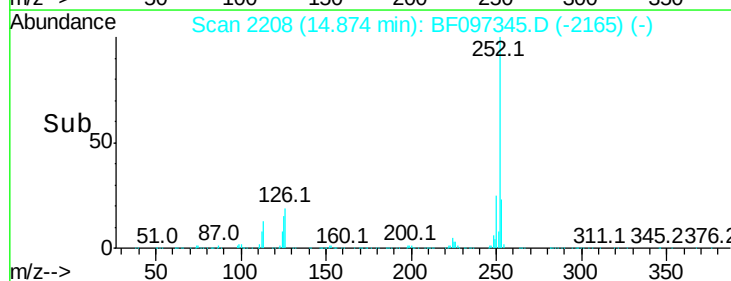
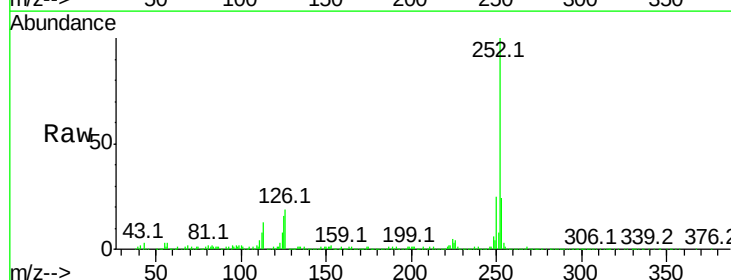
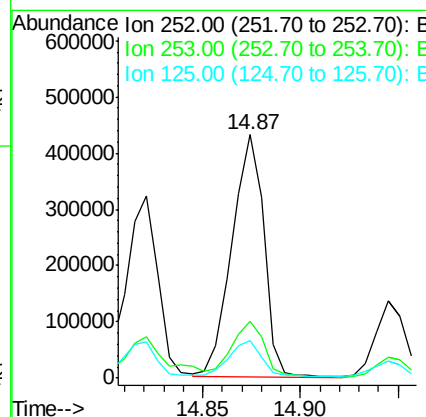
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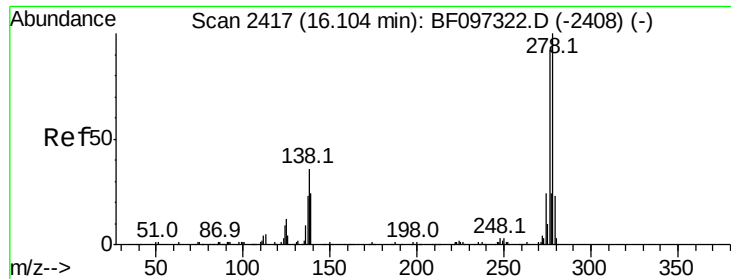
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#89  
Benzo(a)pyrene  
Concen: 81.847 ng  
RT: 14.87 min Scan# 2208  
Delta R.T. -0.05 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.5  | 26.3  |
| 125     | 15.6  | 11.0  | 16.4  |





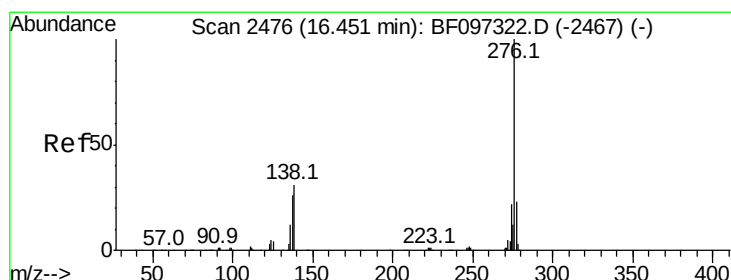
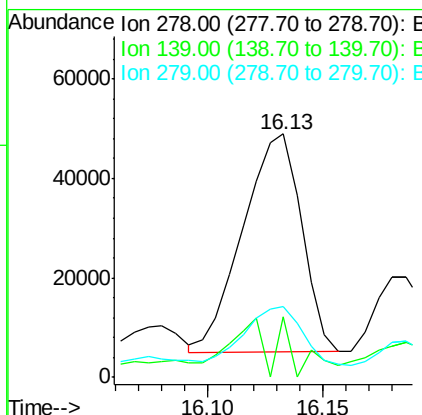
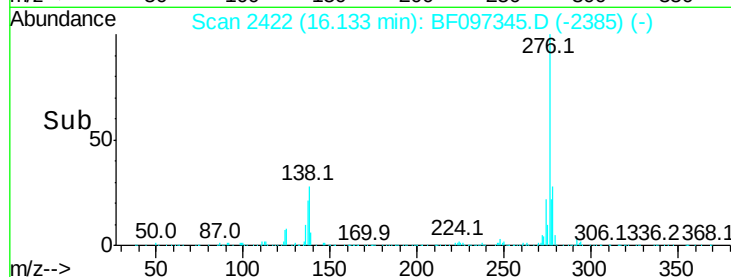
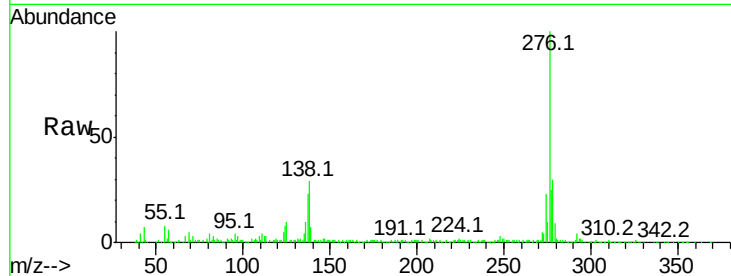
#90  
Dibenzo(a,h)anthracene  
Concen: 15.667 ng  
RT: 16.13 min Scan# 2422  
Delta R.T. -0.08 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

Instrument :  
BNA\_F  
ClientSampleId :  
TP-5-SS2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.8  | 16.6  | 24.8  |
| 279     | 28.8  | 19.3  | 28.9  |

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#91  
Benzo(g,h,i)perylene  
Concen: 50.567 ng  
RT: 16.49 min Scan# 2483  
Delta R.T. -0.08 min  
Lab File: BF097345.D  
Acq: 4 Aug 2017 4:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 18.6  | 28.0  |
| 138     | 31.2  | 25.4  | 38.0  |

