

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\  
 Data File : BF093928.D  
 Acq On : 25 Mar 2017 1:14  
 Operator : SJ/MA  
 Sample : I2367-04 4X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-R14-ESW

Manual Integrations  
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 3/27/2017 12:56:46 PM

Quant Time: Mar 25 04:53:49 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 23 02:02:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.96  | 152  | 165444   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8          | 7.46  | 136  | 633925   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.60  | 164  | 254631   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10        | 11.43 | 188  | 374312   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12            | 14.69 | 240  | 302132   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 16.33 | 264  | 249086   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.48  | 112  | 237456   | 24.24 | ng    | -0.02    |
| 7) Phenol-d6                | 5.55  | 99   | 321285   | 26.51 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 6.60  | 82   | 232195   | 20.90 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 44465    | 22.10 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 8.79  | 172  | 388396   | 23.27 | ng    | -0.04    |
| 78) Terphenyl-d14           | 13.40 | 244  | 181171   | 13.44 | ng    | -0.04    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 7.49  | 128  | 190150   | 6.24  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.33  | 142  | 79855    | 3.93  | ng    | 94       |
| 48) Acenaphthylene          | 9.43  | 152  | 57554    | 2.15  | ng    | 99       |
| 49) Dimethylphthalate       | 9.28  | 163  | 56718    | 3.13  | ng    | 100      |
| 51) Acenaphthene            | 9.65  | 154  | 79589    | 5.10  | ng    | 99       |
| 54) Dibenzofuran            | 9.86  | 168  | 70896    | 3.34  | ng    | 99       |
| 57) Fluorene                | 10.28 | 166  | 84317    | 4.79  | ng    | 96       |
| 70) Phenanthrene            | 11.46 | 178  | 1052614  | 50.55 | ng    | 99       |
| 71) Anthracene              | 11.52 | 178  | 270612   | 12.62 | ng    | 98       |
| 72) Carbazole               | 11.72 | 167  | 118917   | 5.41  | ng    | 98       |
| 73) Di-n-butylphthalate     | 12.17 | 149  | 53394    | 2.34  | ng    | 99       |
| 74) Fluoranthene            | 12.93 | 202  | 1120593  | 52.56 | ng    | 99       |
| 77) Pvrene                  | 13.21 | 202  | 1089684  | 49.70 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.67 | 228  | 547775   | 31.09 | ng    | 97       |
| 82) Chrysene                | 14.72 | 228  | 555920   | 34.00 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.70 | 276  | 213355   | 15.07 | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 15.92 | 252  | 688968m  | 45.12 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.94 | 252  | 185779m  | 12.44 | ng    |          |
| 89) Benzo(a)pvrene          | 16.27 | 252  | 405241   | 28.82 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene  | 17.72 | 278  | 57661m   | 4.84  | ng    |          |
| 91) Benzo(g,h,i)perylene    | 18.12 | 276  | 193239   | 16.10 | ng    | 99       |

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

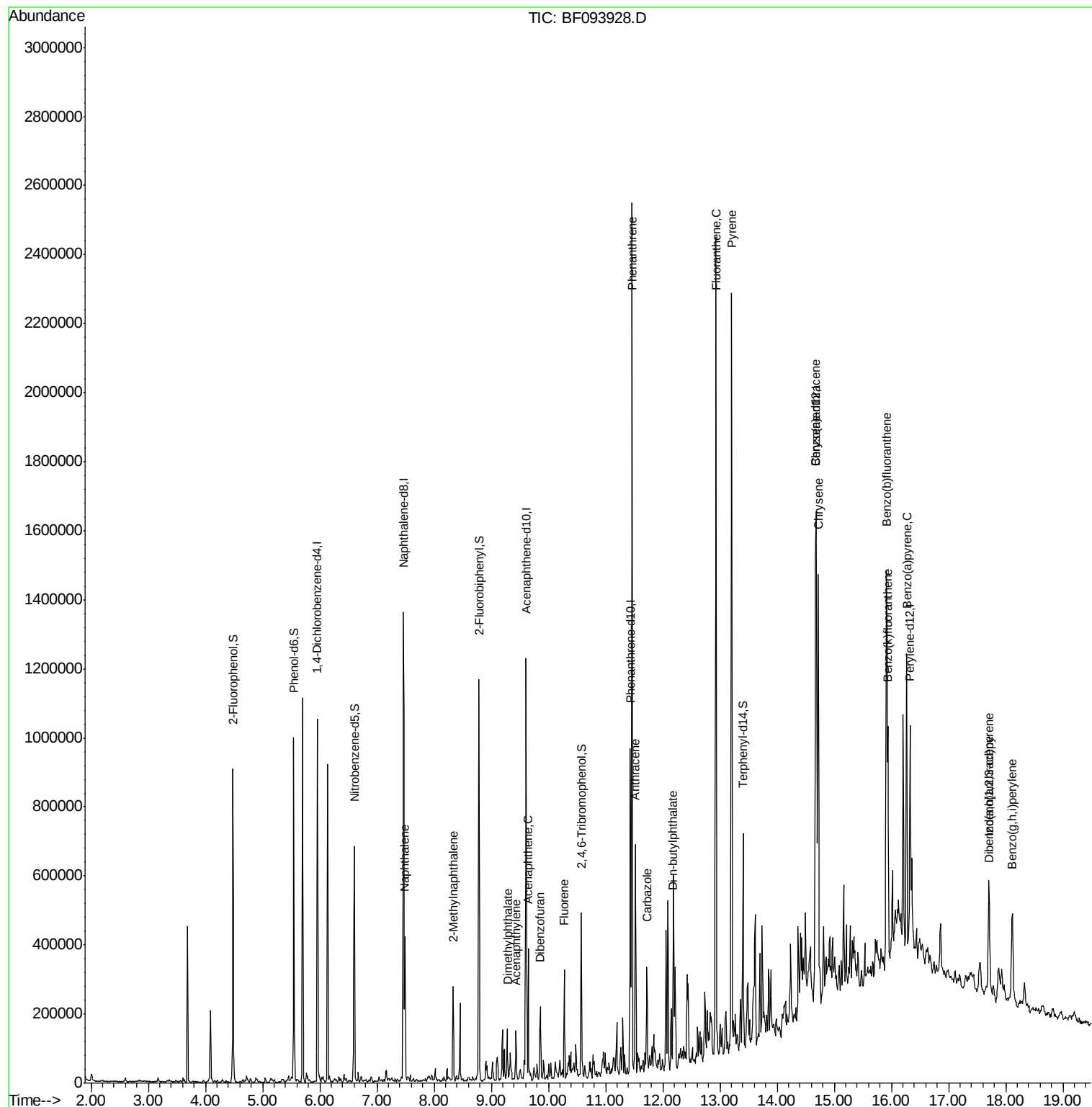
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\  
Data File : BF093928.D  
Acq On : 25 Mar 2017 1:14  
Operator : SJ/MA  
Sample : I2367-04 4X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

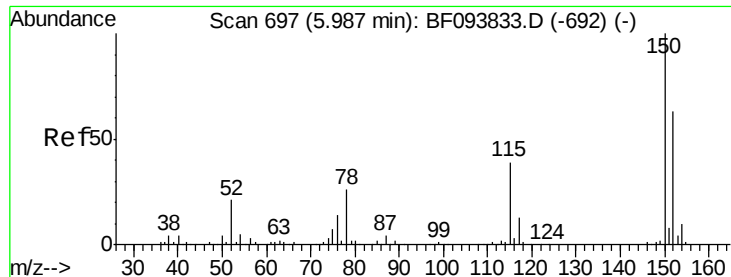
Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

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Quant Time: Mar 25 04:53:49 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 23 02:02:22 2017  
Response via : Initial Calibration





#1

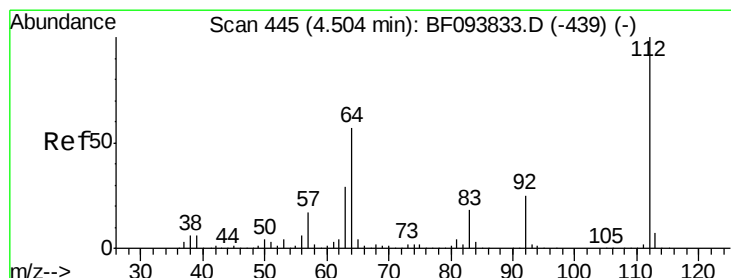
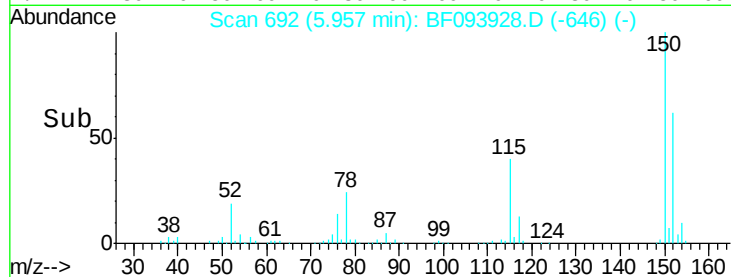
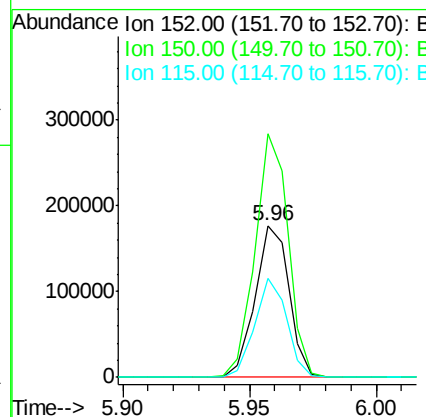
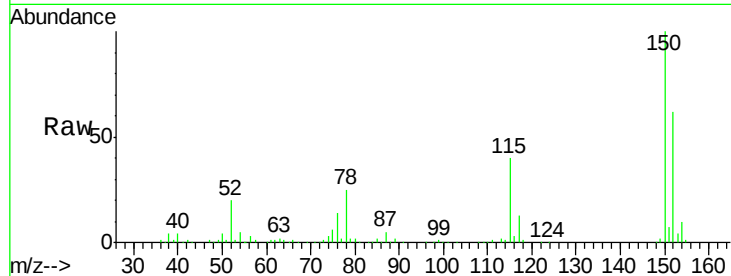
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.96 min Scan# 692  
Delta R.T. -0.03 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.2 | 126.2 | 189.2 |
| 115     | 64.7  | 52.2  | 78.2  |

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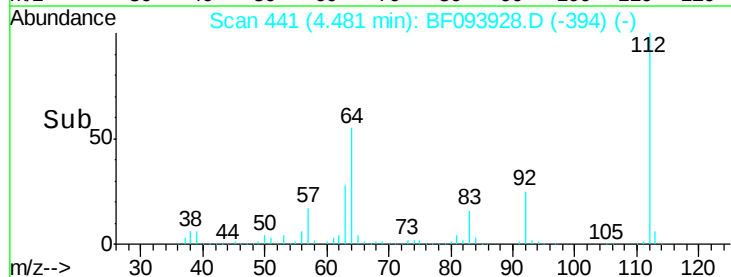
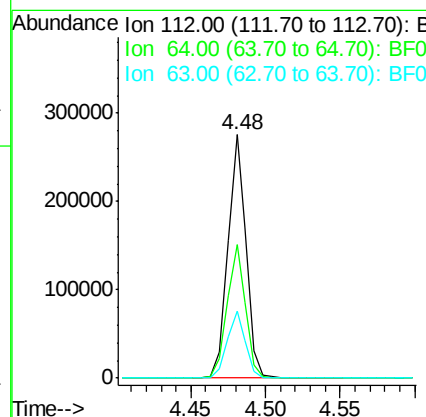
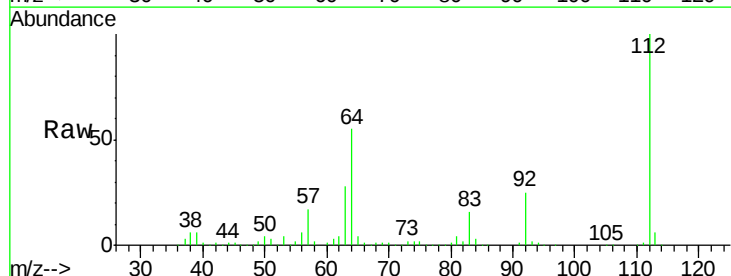
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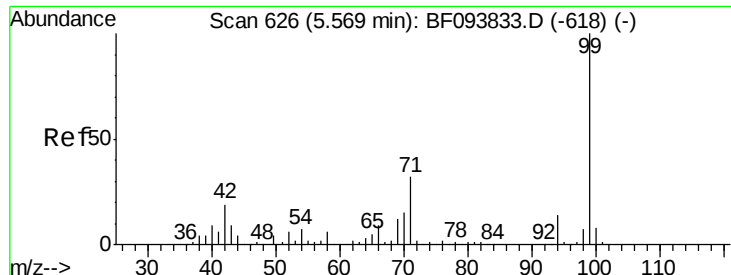


#5

2-Fluorophenol  
Concen: 24.24 ng  
RT: 4.48 min Scan# 441  
Delta R.T. -0.02 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.0  | 46.0  | 69.0  |
| 63      | 27.7  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 26.51 ng

RT: 5.55 min Scan# 622

Delta R.T. -0.02 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

Instrument :

BNA\_F

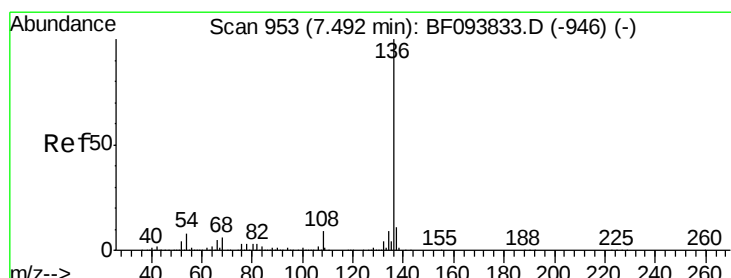
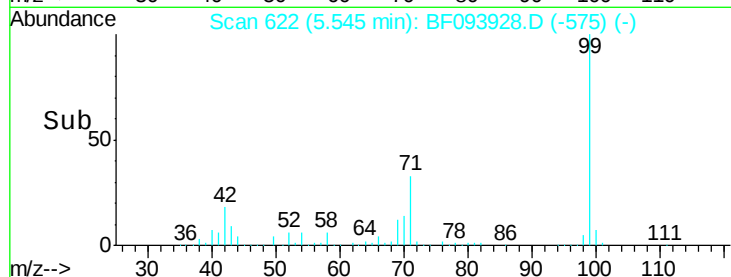
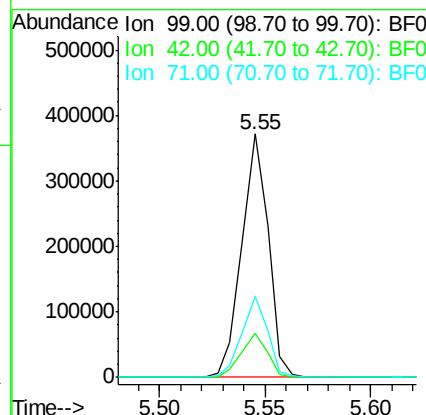
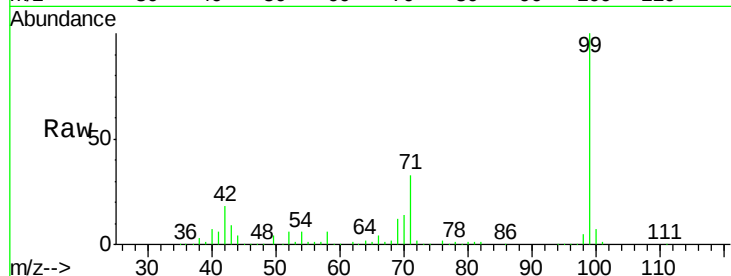
ClientSampled :

E2-R14-ESW

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 321285 |       |       |
| 42      | 17.8 | 13.5  | 20.3   |       |       |
| 71      | 33.2 | 24.5  | 36.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

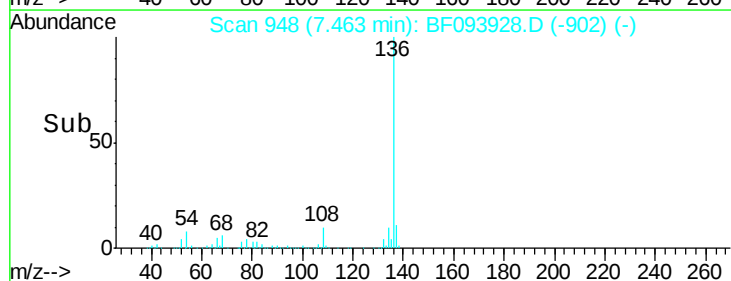
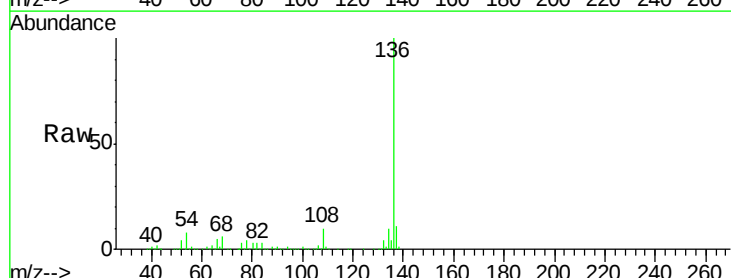
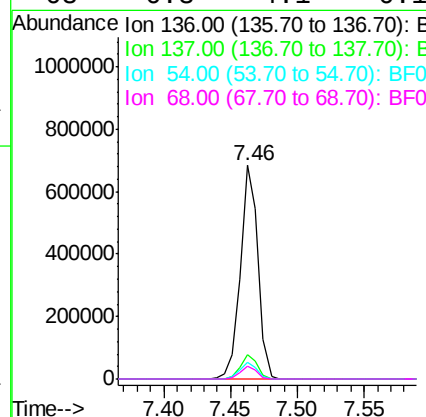
RT: 7.46 min Scan# 948

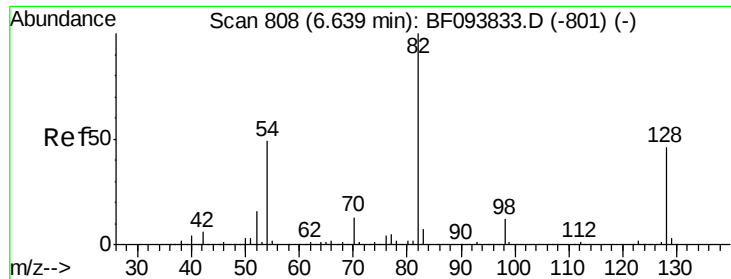
Delta R.T. -0.03 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 633925 |       |       |
| 137     | 11.1 | 8.5   | 12.7   |       |       |
| 54      | 8.1  | 4.9   | 7.3#   |       |       |
| 68      | 6.3  | 4.1   | 6.1#   |       |       |





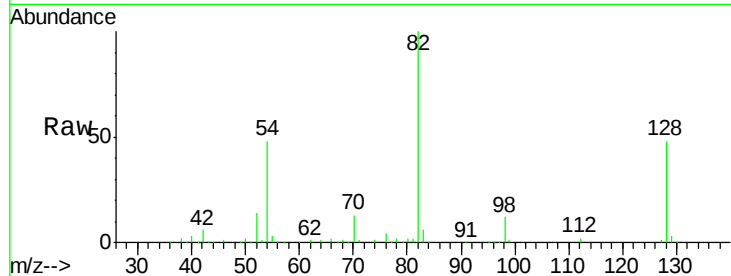
#23  
Nitrobenzene-d5  
Concen: 20.90 ng  
RT: 6.60 min Scan# 802  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

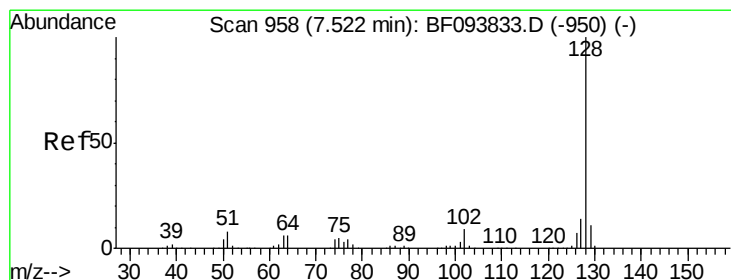
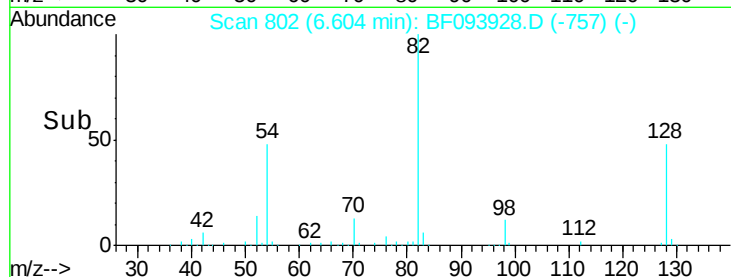
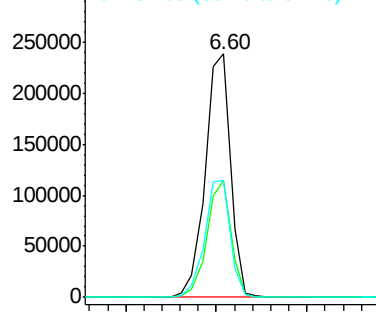
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 232195 |       |       |
| 128     | 47.8  | 34.0   | 51.0  |       |
| 54      | 48.2  | 42.2   | 63.2  |       |

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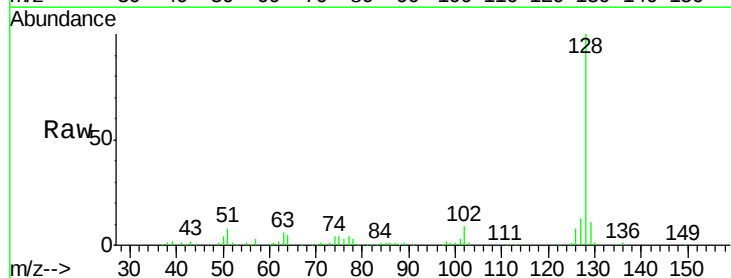


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

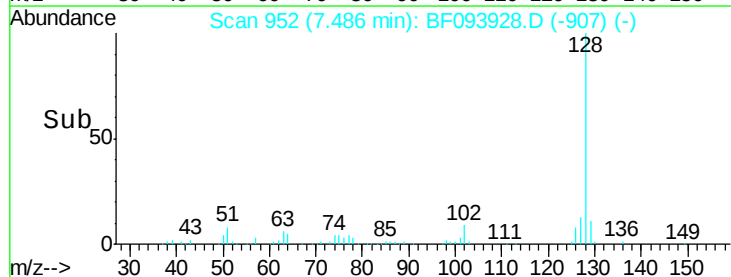
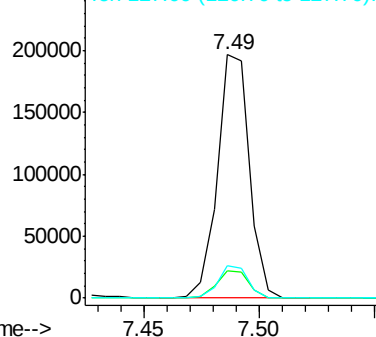


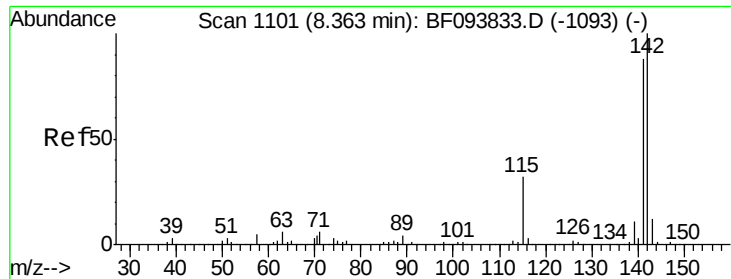
#31  
Naphthalene  
Concen: 6.24 ng  
RT: 7.49 min Scan# 952  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 190150 |       |       |
| 129     | 11.0  | 9.0    | 13.6  |       |
| 127     | 13.1  | 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





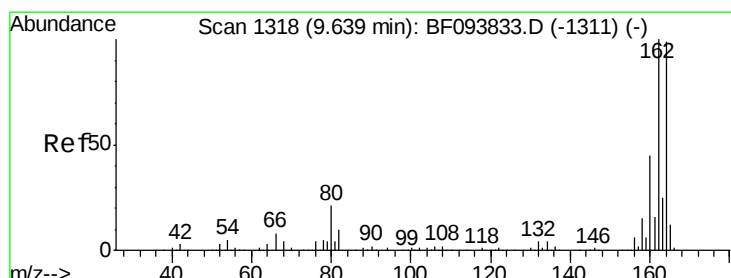
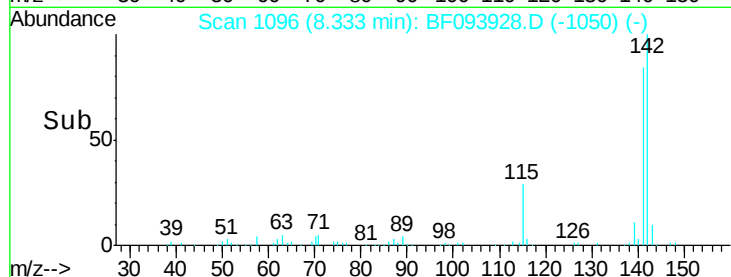
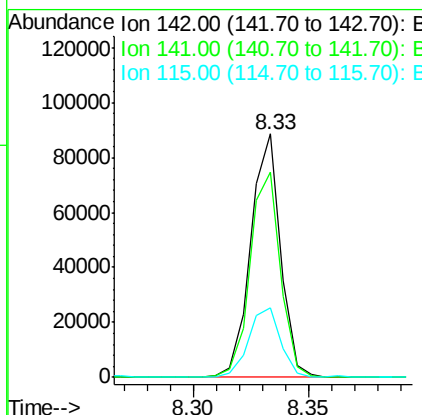
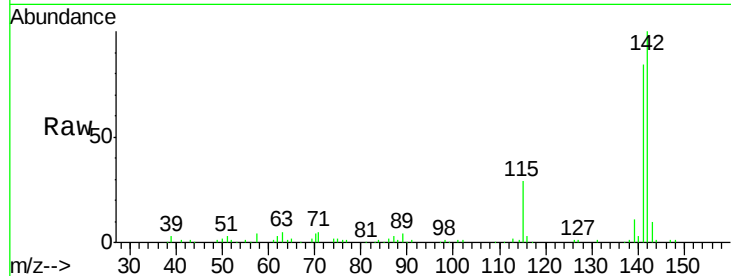
#37  
 2-Methylnaphthalene  
 Concen: 3.93 ng  
 RT: 8.33 min Scan# 1096  
 Delta R.T. -0.03 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-R14-ESW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 142   | Resp: | 79855 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 84.4  | 71.3  | 106.9 |
| 115       | 28.8  | 27.1  | 40.7  |

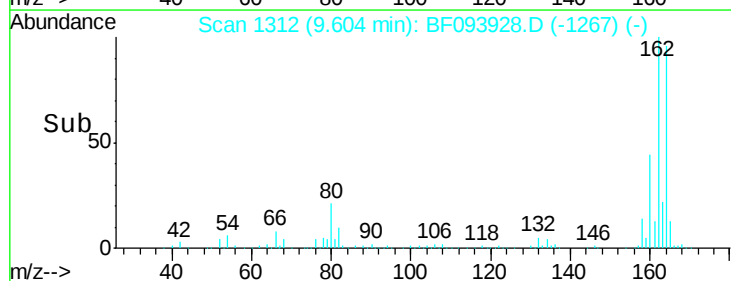
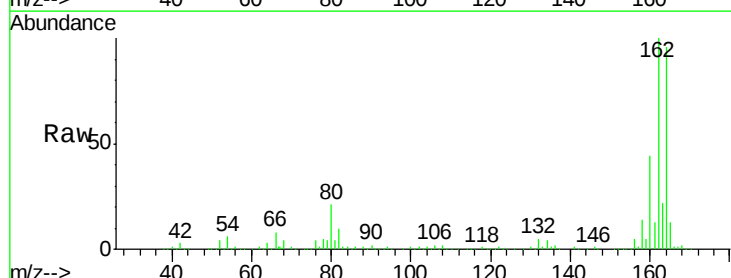
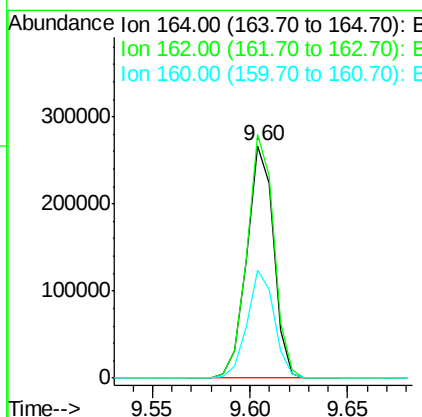
Manual Integrations  
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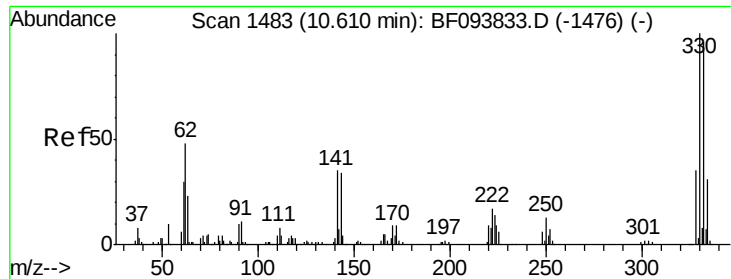
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.60 min Scan# 1312  
 Delta R.T. -0.04 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 254631 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.7 | 82.6  | 123.8  |
| 160       | 46.3  | 36.2  | 54.2   |





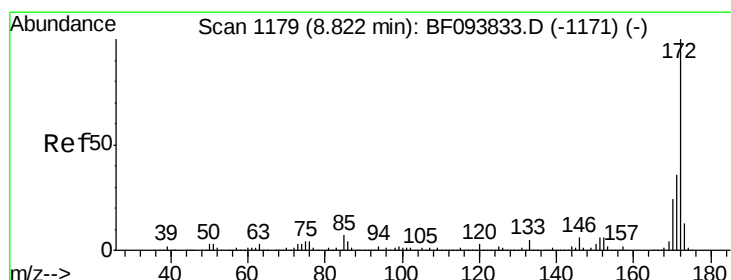
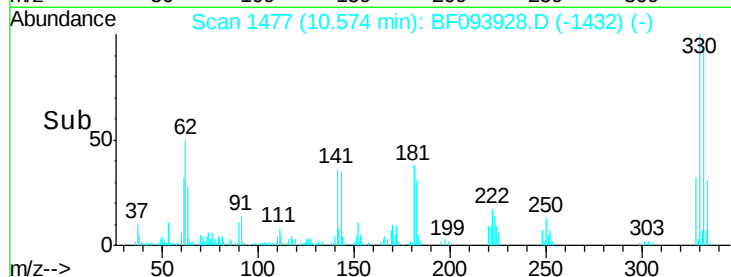
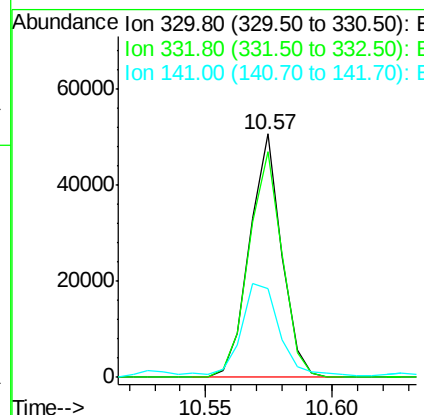
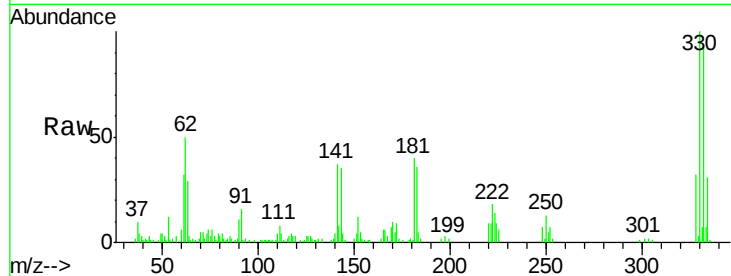
#41  
 2,4,6-Tribromophenol  
 Concen: 22.10 ng  
 RT: 10.57 min Scan# 1477  
 Delta R.T. -0.04 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.4  | 76.6  | 115.0 |
| 141     | 46.9  | 31.4  | 47.2  |

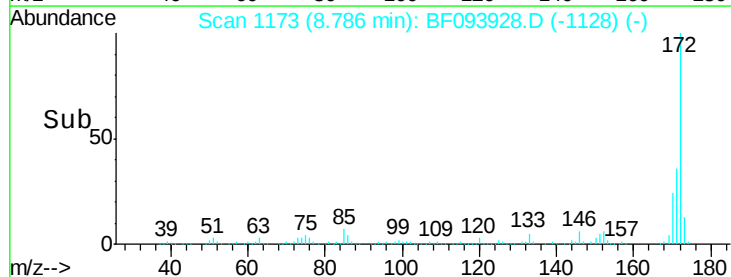
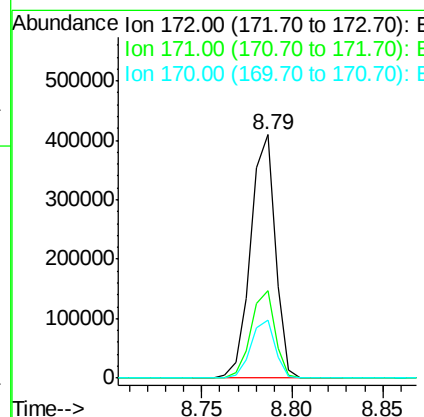
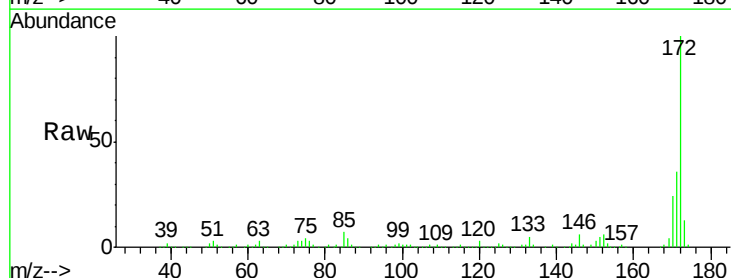
Manual Integrations  
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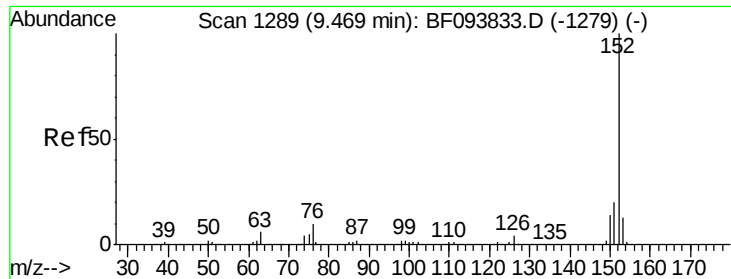
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#44  
 2-Fluorobiphenyl  
 Concen: 23.27 ng  
 RT: 8.79 min Scan# 1173  
 Delta R.T. -0.04 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 24.1  | 19.8  | 29.8  |





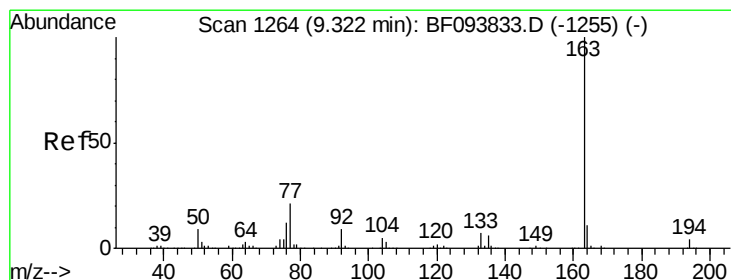
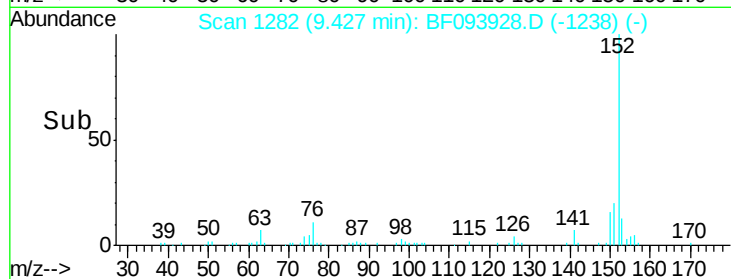
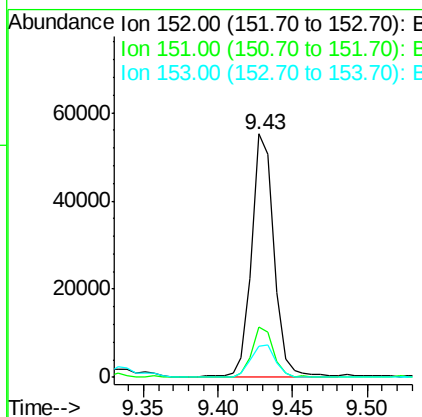
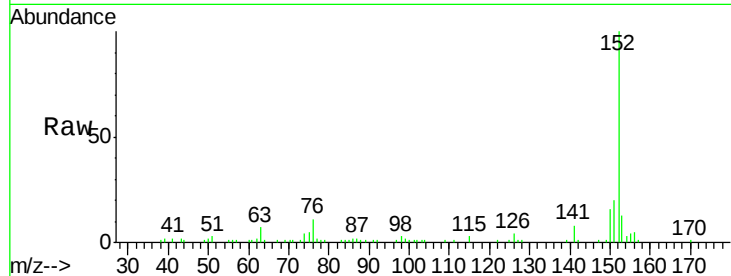
#48  
Acenaphthylene  
Concen: 2.15 ng  
RT: 9.43 min Scan# 1282  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 57554 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.5  | 16.8  | 25.2  |
| 153       | 12.9  | 10.8  | 16.2  |

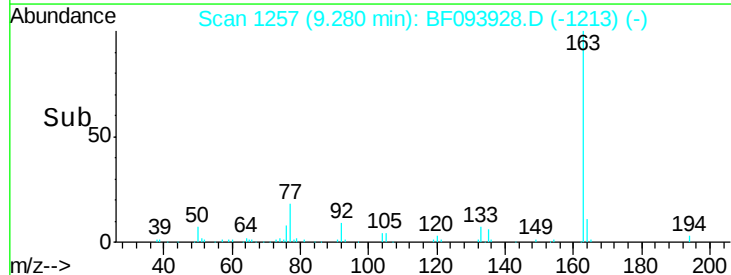
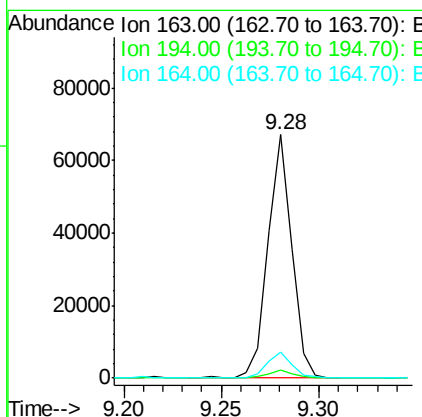
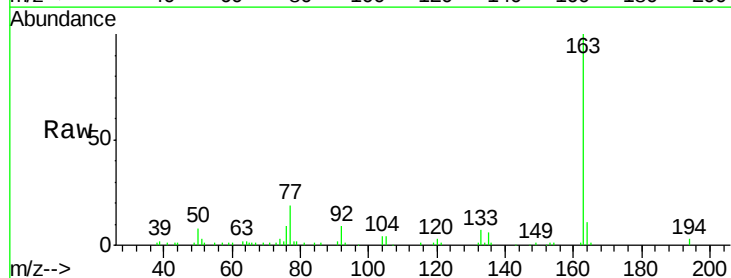
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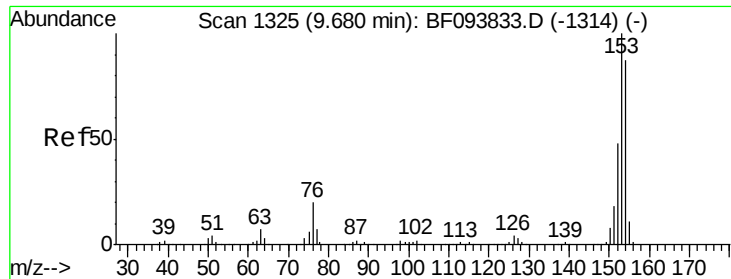
mohammad  
3/27/2017 12:56:46 PM



#49  
Dimethylphthalate  
Concen: 3.13 ng  
RT: 9.28 min Scan# 1257  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 56718 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.3   | 2.6   | 4.0   |
| 164       | 10.7  | 8.4   | 12.6  |





#51

Acenaphthene

Concen: 5.10 ng

RT: 9.65 min Scan# 1319

Delta R.T. -0.04 min

Lab File: BF093928.D

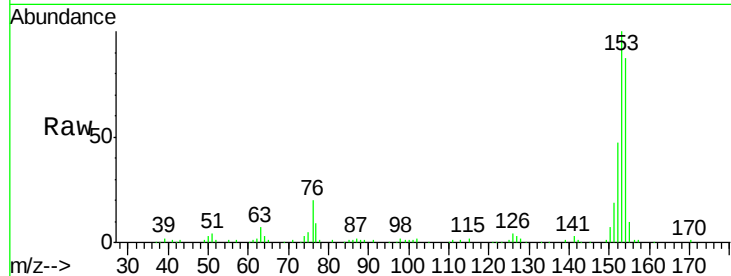
Acq: 25 Mar 2017 1:14

Instrument :

BNA\_F

ClientSampleId :

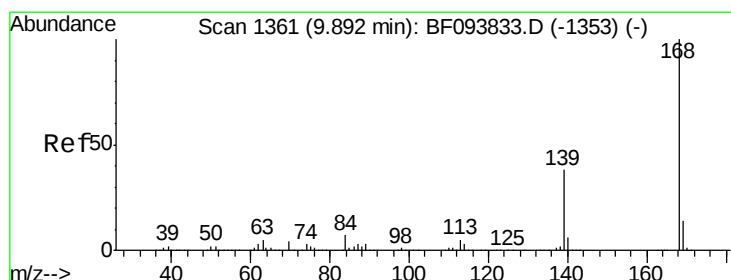
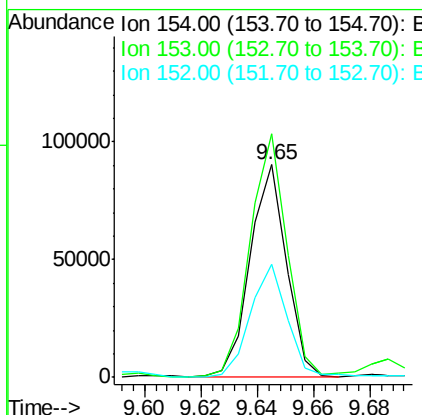
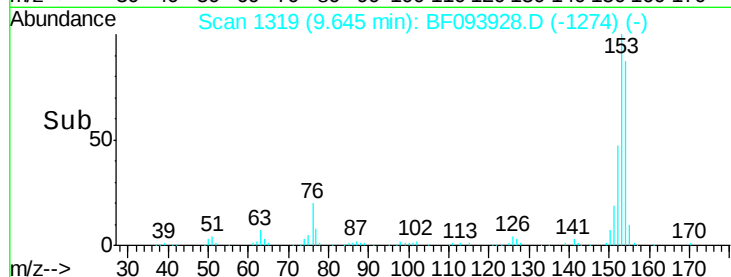
E2-R14-ESW



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 79589 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.4 | 90.5  | 135.7 |
| 152       | 53.4  | 43.6  | 65.4  |

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#54

Dibenzofuran

Concen: 3.34 ng

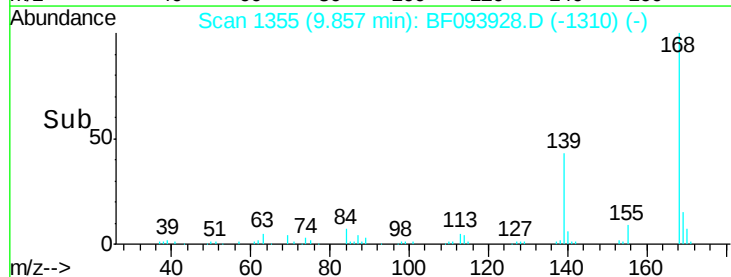
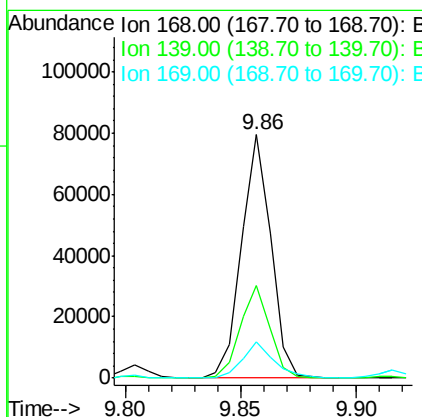
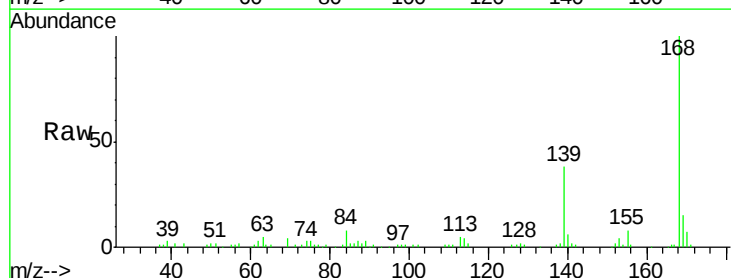
RT: 9.86 min Scan# 1355

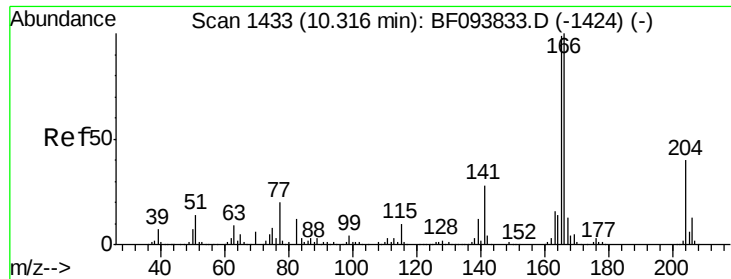
Delta R.T. -0.04 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 70896 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 38.2  | 30.6  | 45.8  |
| 169       | 14.8  | 10.8  | 16.2  |





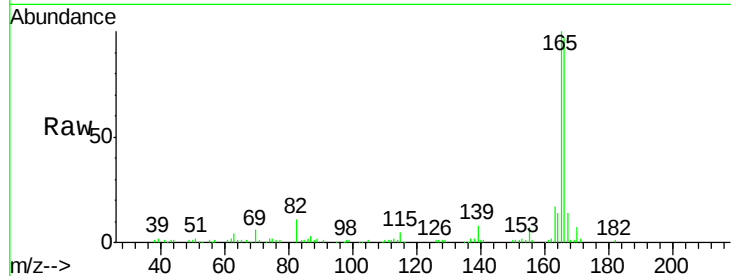
#57  
**Fluorene**  
 Concen: 4.79 ng  
 RT: 10.28 min Scan# 1427  
 Delta R.T. -0.04 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-R14-ESW

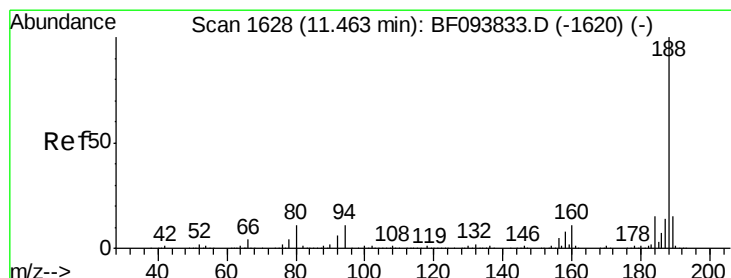
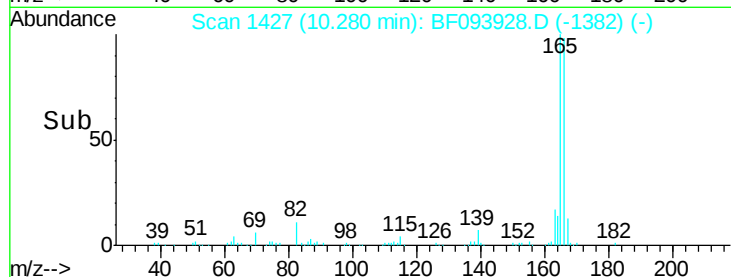
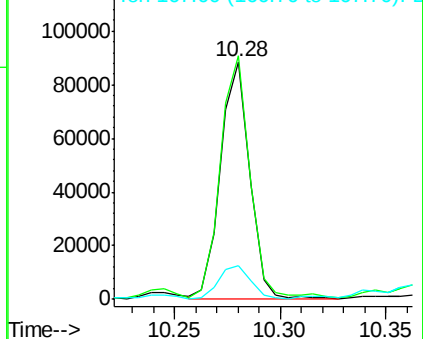
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 102.6 | 78.8  | 118.2 |
| 167     | 14.1  | 10.6  | 16.0  |

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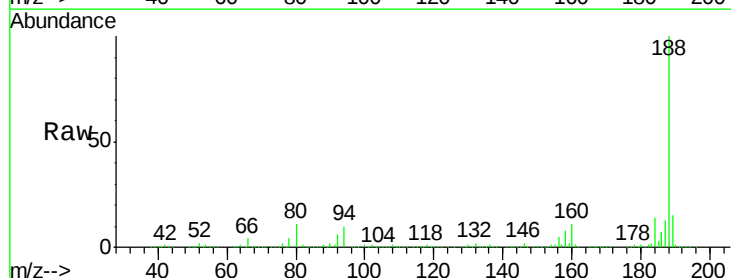


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

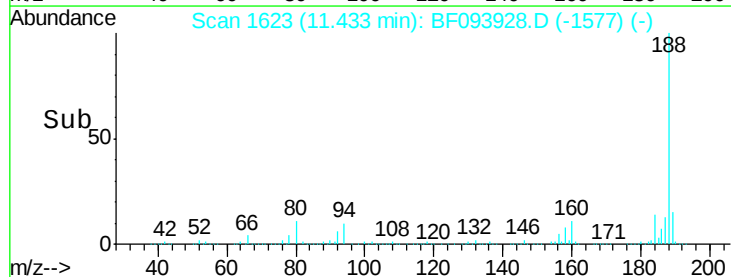
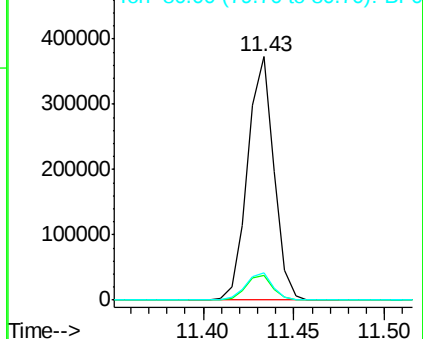


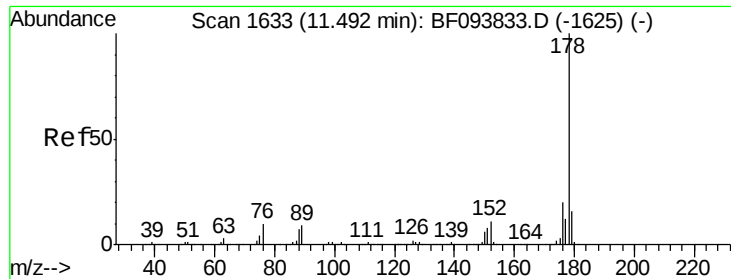
#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.43 min Scan# 1623  
 Delta R.T. -0.03 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.2  | 9.4   | 14.2  |
| 80      | 11.3  | 10.2  | 15.2  |



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





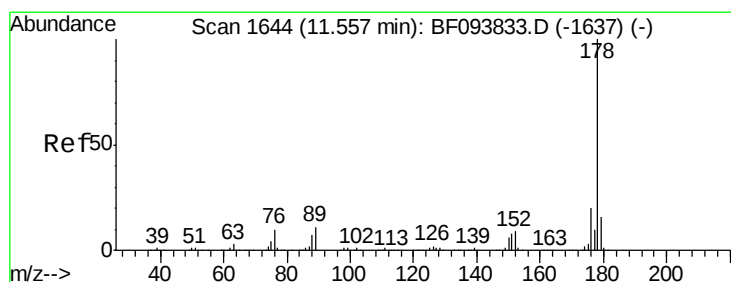
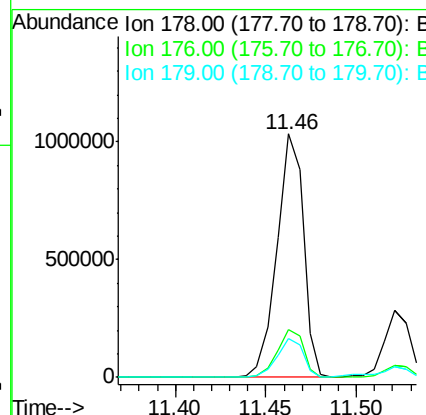
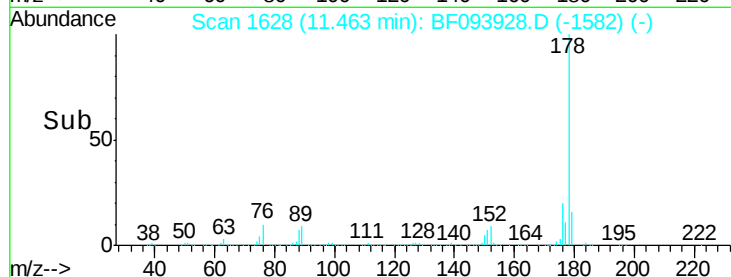
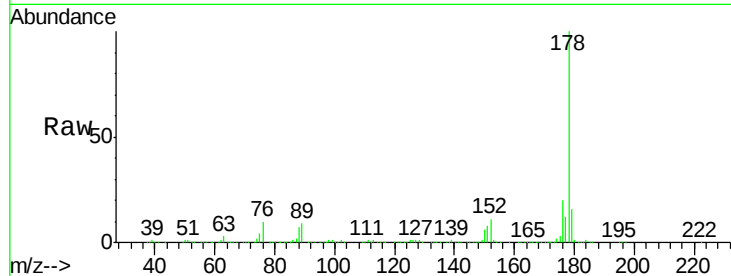
#70  
Phenanthrene  
Concen: 50.55 ng  
RT: 11.46 min Scan# 1628  
Delta R.T. -0.03 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

Tot Ion:178 Resp: 1052614  
Ion Ratio Lower Upper  
178 100  
176 19.7 16.2 24.4  
179 16.0 12.6 19.0

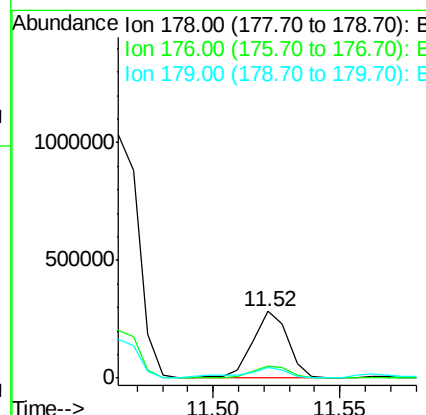
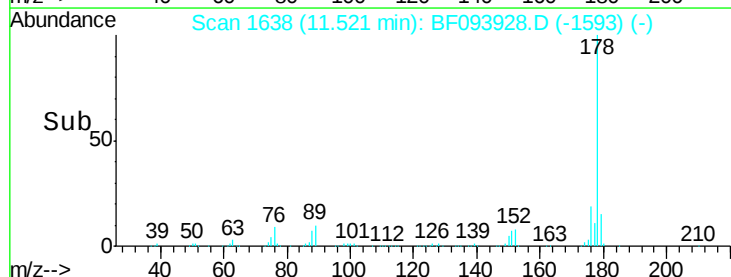
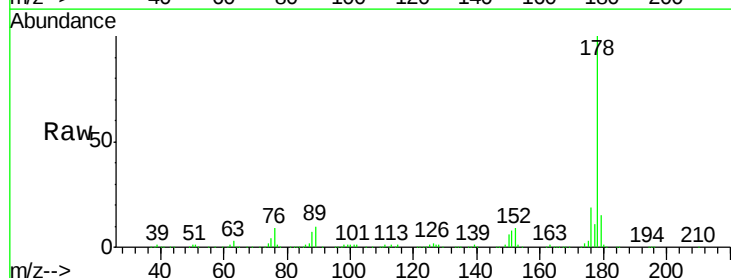
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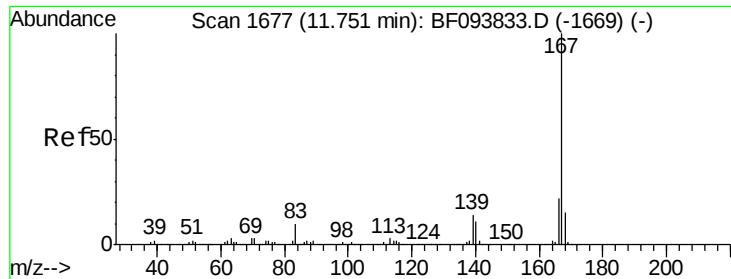
mohammad  
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#71  
Anthracene  
Concen: 12.62 ng  
RT: 11.52 min Scan# 1638  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Tgt Ion:178 Resp: 270612  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.8 23.8  
179 15.2 12.7 19.1





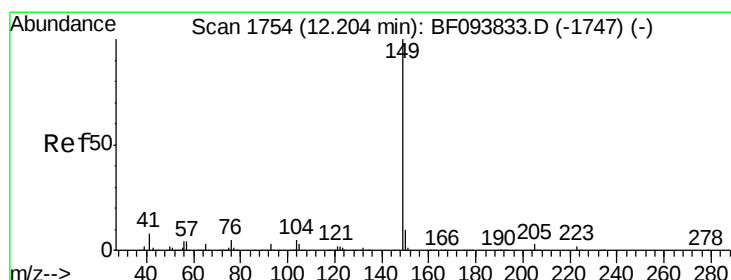
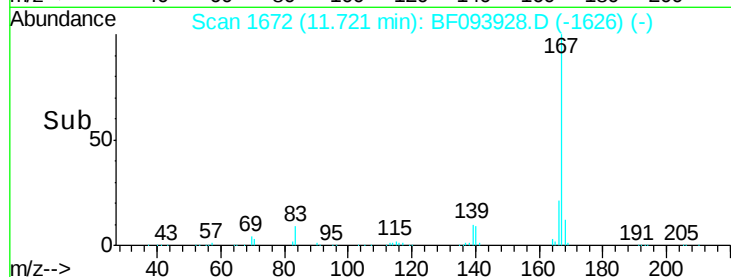
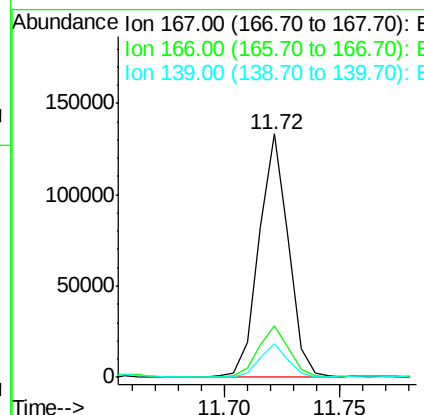
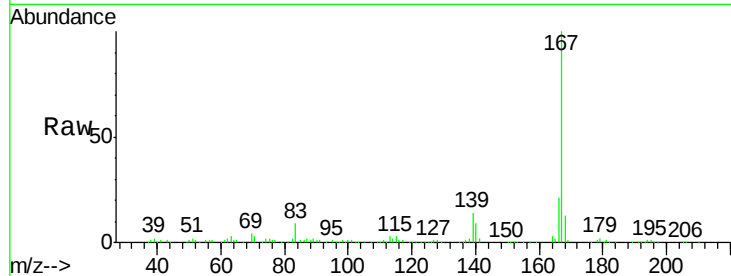
#72  
 Carbazole  
 Concen: 5.41 ng  
 RT: 11.72 min Scan# 1672  
 Delta R.T. -0.03 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-R14-ESW

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 118917 |       |       |
| 166     | 21.4  | 18.1   | 27.1  |       |
| 139     | 13.7  | 11.7   | 17.5  |       |

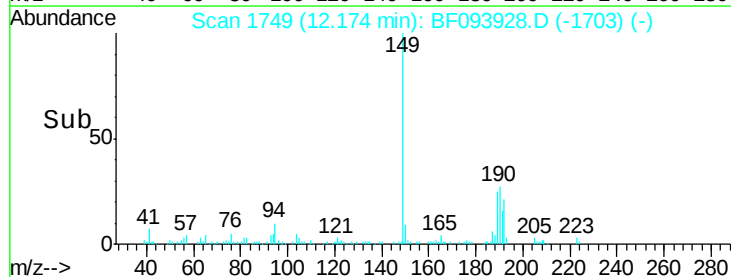
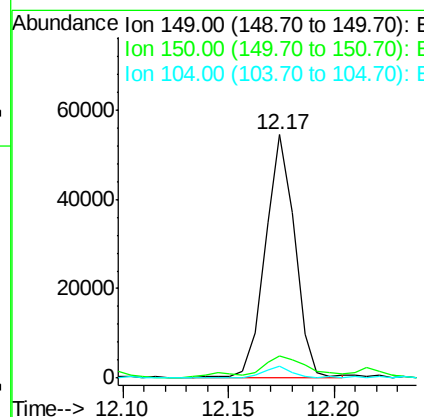
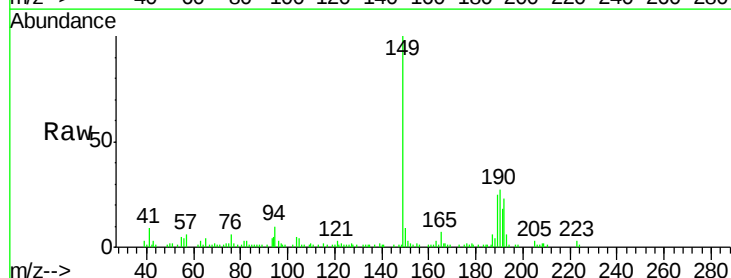
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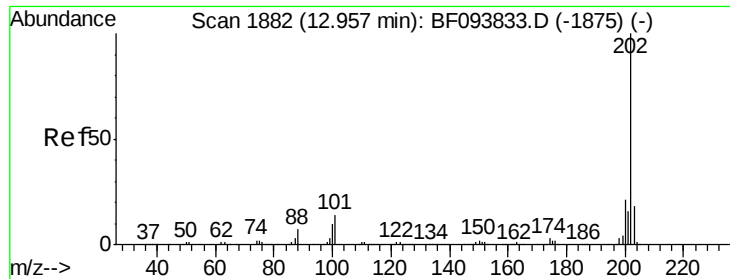
mohammad  
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#73  
 Di-n-butylphthalate  
 Concen: 2.34 ng  
 RT: 12.17 min Scan# 1749  
 Delta R.T. -0.03 min  
 Lab File: BF093928.D  
 Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 149     | 100   | 53394 |       |       |
| 150     | 8.9   | 7.7   | 11.5  |       |
| 104     | 4.8   | 4.0   | 6.0   |       |





#74

Fluoranthene

Concen: 52.56 ng

RT: 12.93 min Scan# 1878

Delta R.T. -0.02 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

Instrument :

BNA\_F

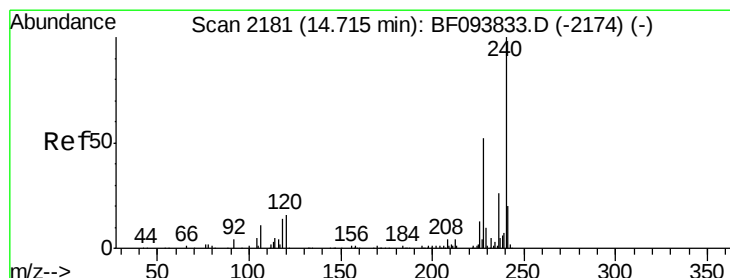
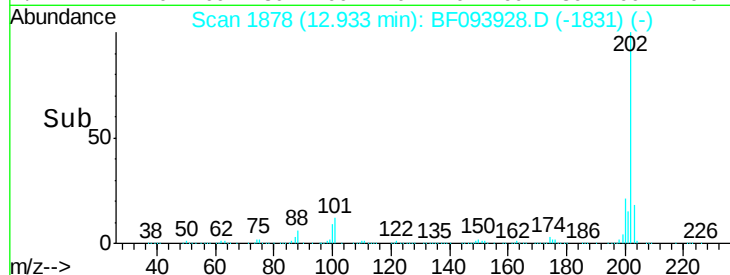
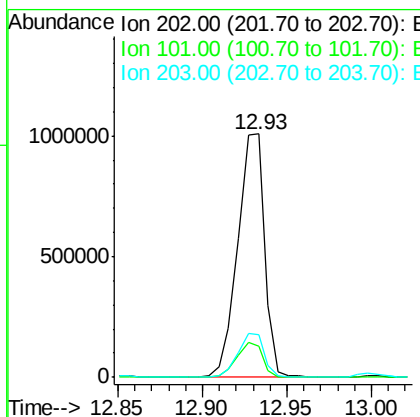
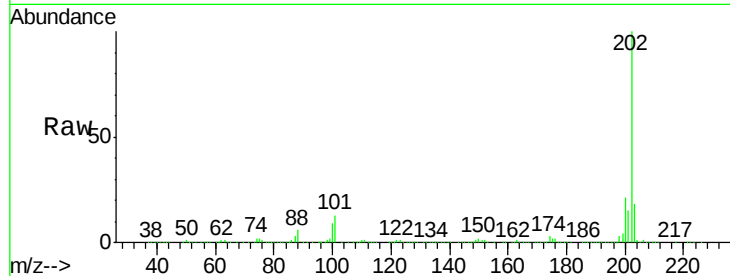
ClientSampleId :

E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.5  | 0.0   | 33.2  |
| 203     | 17.6  | 0.0   | 38.1  |

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#75

Chrysene-d12

Concen: 20.00 ng

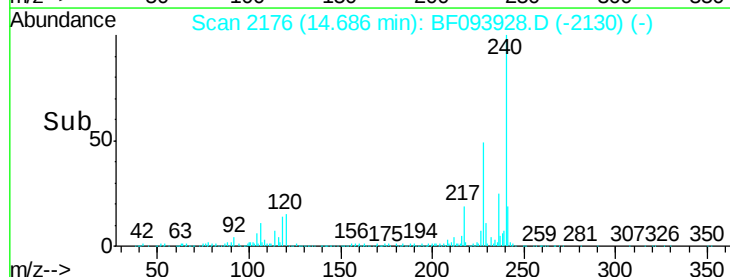
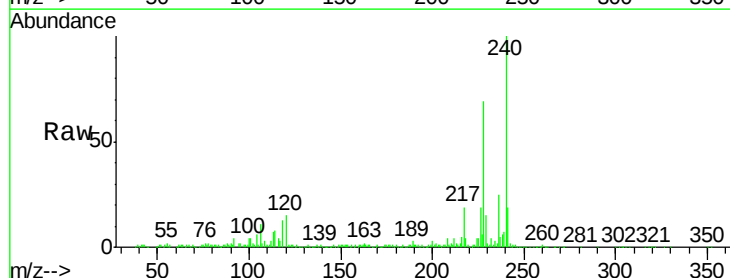
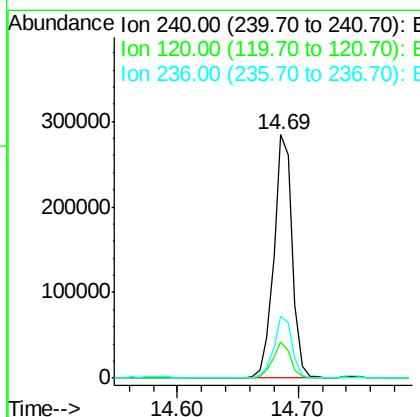
RT: 14.69 min Scan# 2176

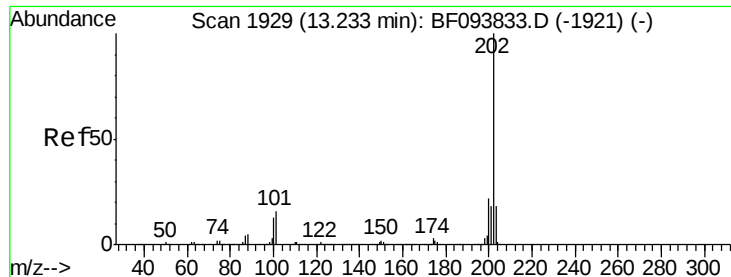
Delta R.T. -0.03 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.0  | 5.8   | 8.8#  |
| 236     | 25.4  | 20.5  | 30.7  |





#77

Pvrene

Concen: 49.70 ng

RT: 13.21 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

Instrument :

BNA\_F

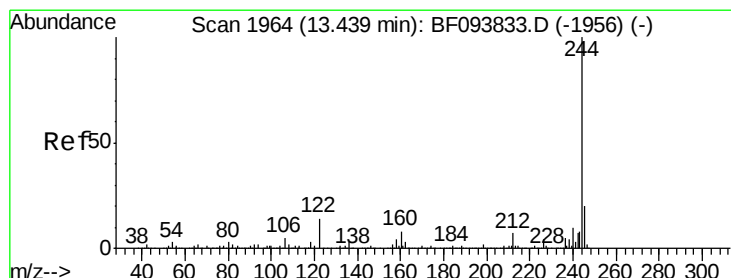
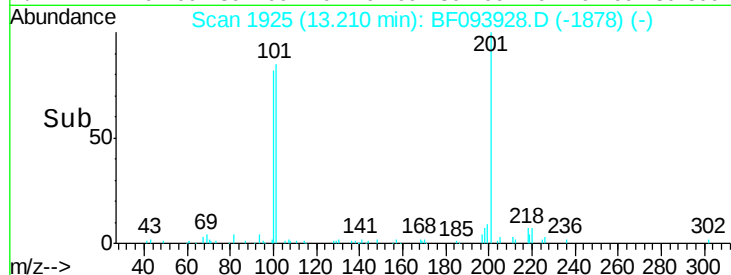
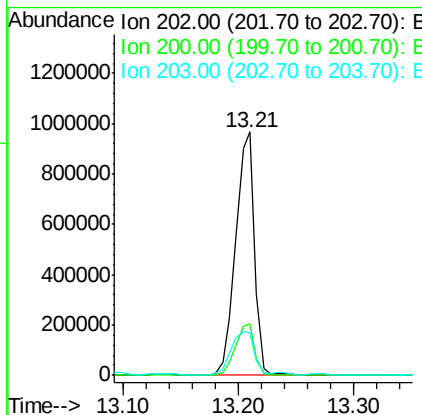
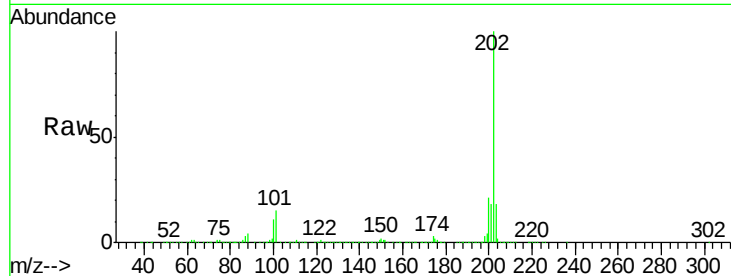
ClientSampleId :

E2-R14-ESW

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1089684 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 200      | 21.3  | 17.6  | 26.4    |
| 203      | 17.6  | 14.4  | 21.6    |

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#78

Terphenyl-d14

Concen: 13.44 ng

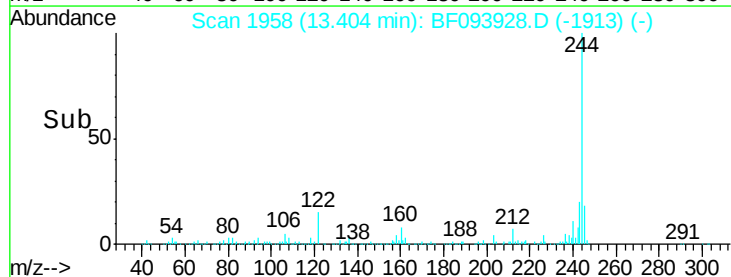
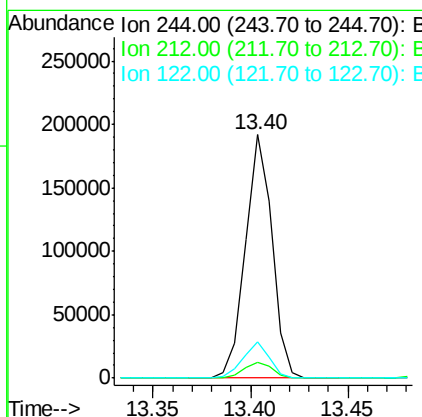
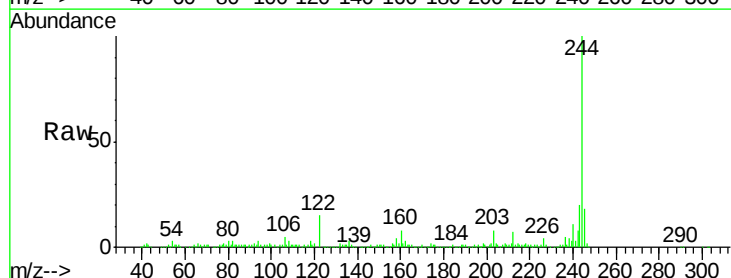
RT: 13.40 min Scan# 1958

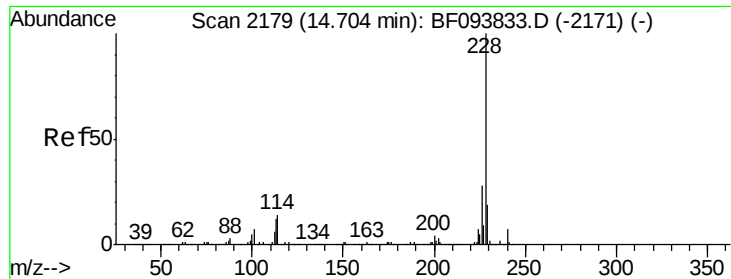
Delta R.T. -0.04 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 181171 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 6.5   | 6.0   | 9.0    |
| 122      | 14.8  | 10.3  | 15.5   |





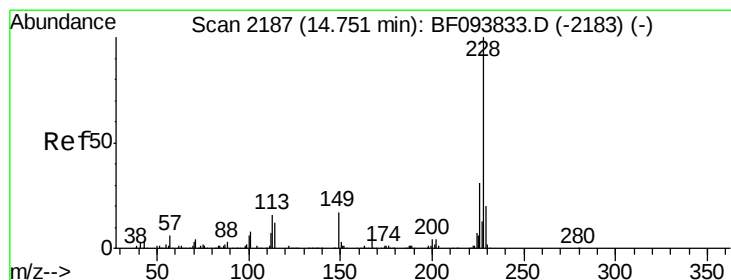
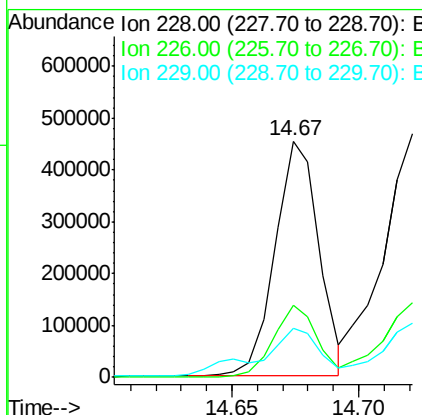
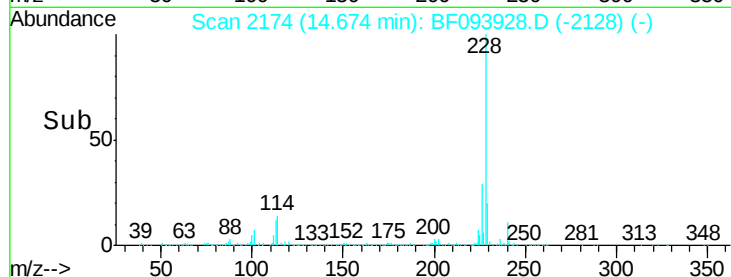
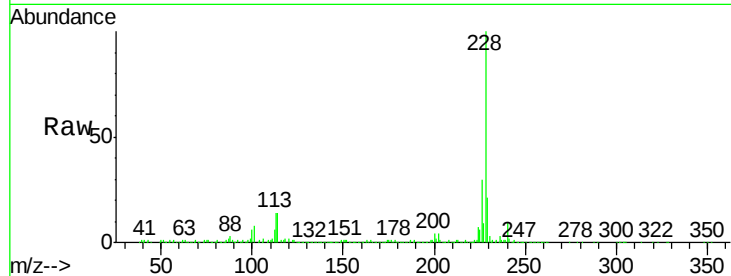
#80  
Benzo(a)anthracene  
Concen: 31.09 ng  
RT: 14.67 min Scan# 2174  
Delta R.T. -0.03 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 22.6  | 33.8  |
| 229     | 20.8  | 16.3  | 24.5  |

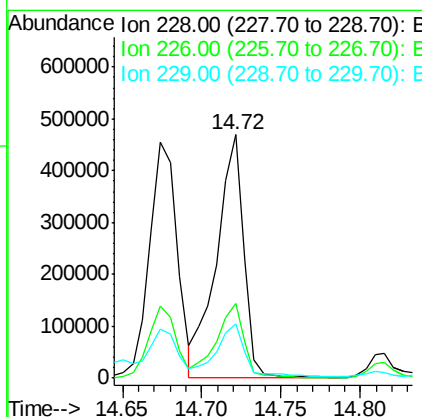
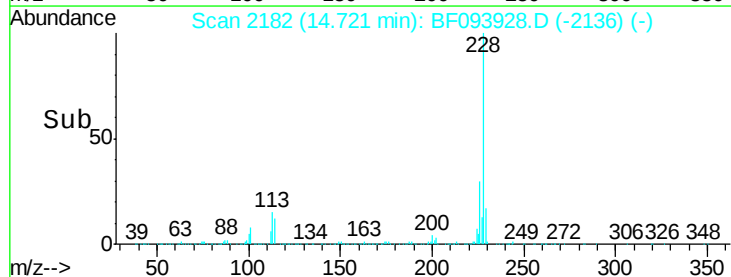
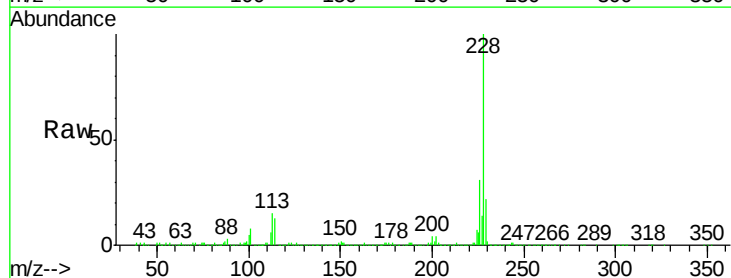
Manual Integrations  
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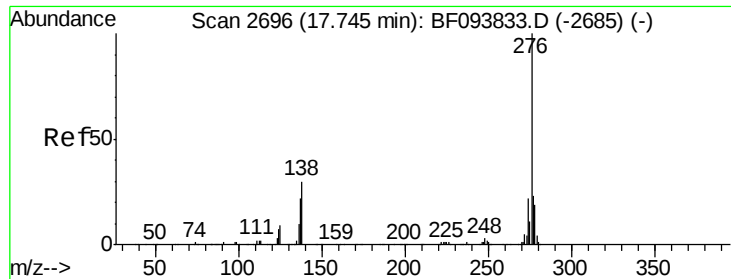
mohammad  
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#82  
Chrysene  
Concen: 34.00 ng  
RT: 14.72 min Scan# 2182  
Delta R.T. -0.03 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 24.9  | 37.3  |
| 229     | 22.2  | 15.8  | 23.6  |





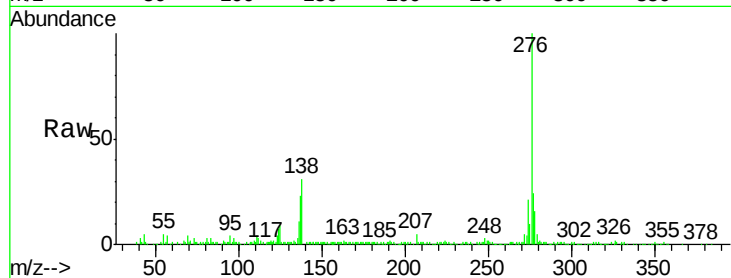
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 15.07 ng  
RT: 17.70 min Scan# 2689  
Delta R.T. -0.04 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 32.0  | 27.8  | 41.6  |
| 277     | 27.5  | 20.2  | 30.4  |

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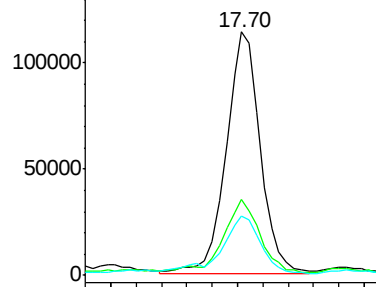


Abundance

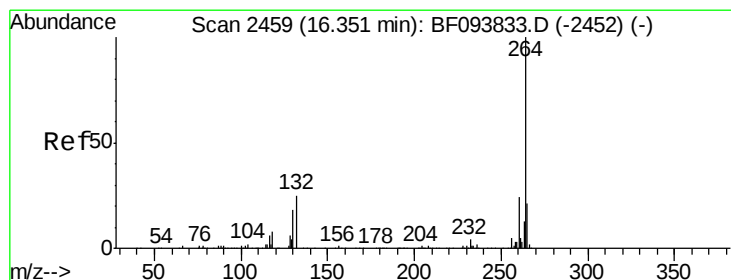
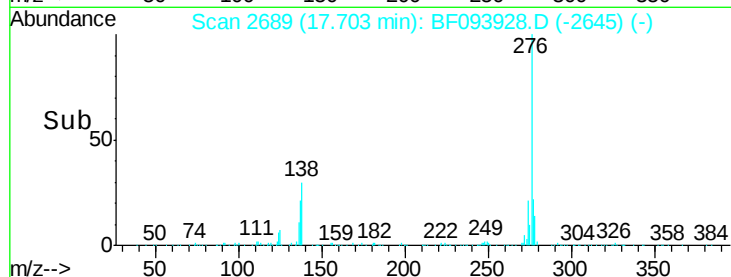
Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

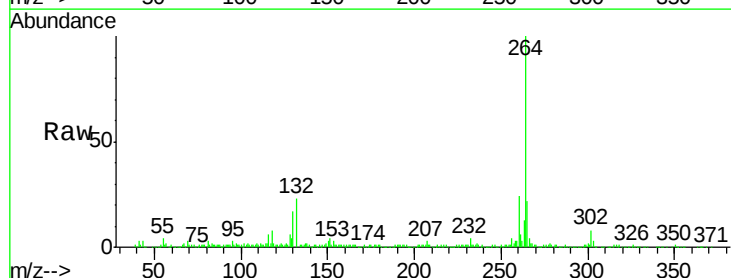


Time-->



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 16.33 min Scan# 2455  
Delta R.T. -0.02 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.5  | 29.3  |
| 265     | 21.9  | 17.2  | 25.8  |

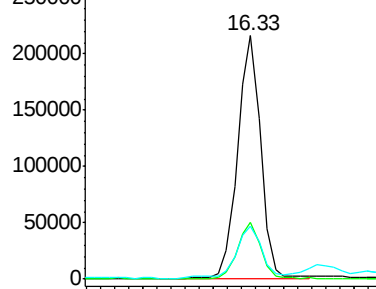


Abundance

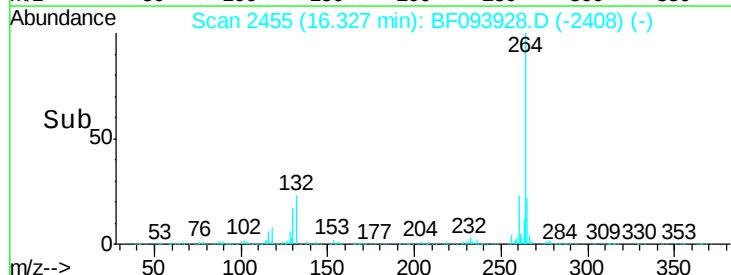
Ion 264.00 (263.70 to 264.70): E

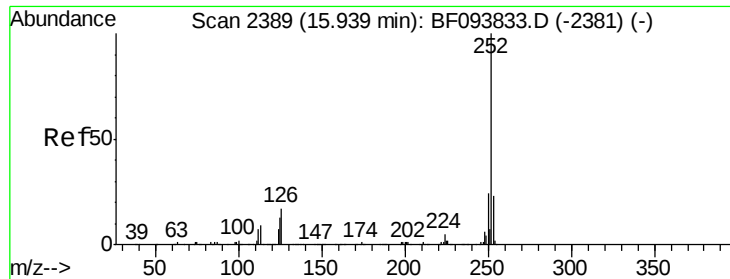
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->





#87

Benzo(b)fluoranthene

Concen: 45.12 ng m

RT: 15.92 min Scan# 2385

Delta R.T. -0.02 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

Instrument :

BNA\_F

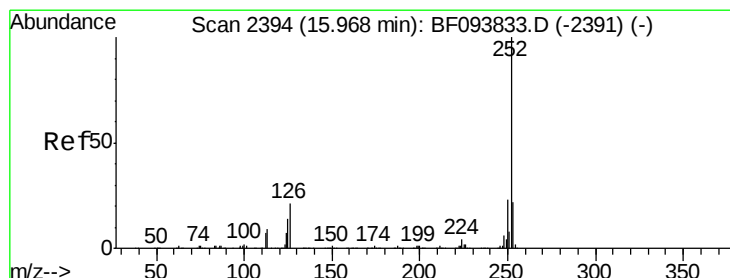
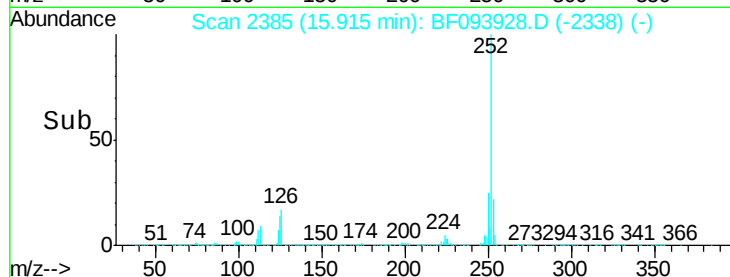
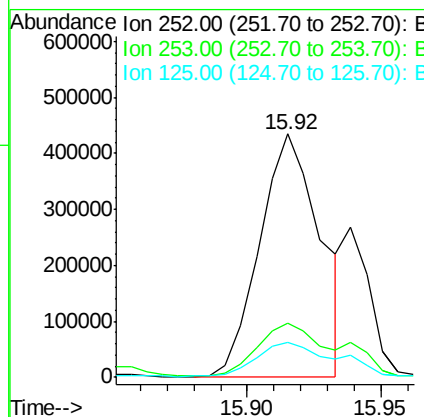
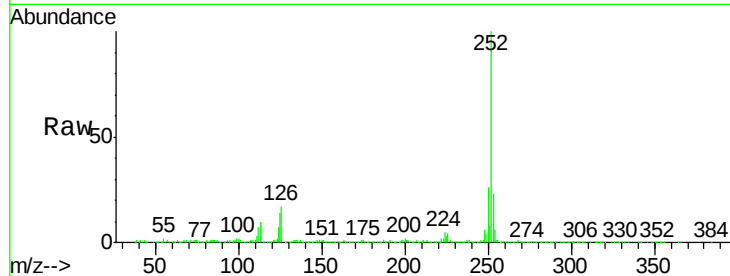
ClientSampleId :

E2-R14-ESW

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 688968 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.5  | 18.1  | 27.1   |
| 125       | 14.4  | 9.8   | 14.8   |

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#88

Benzo(k)fluoranthene

Concen: 12.44 ng m

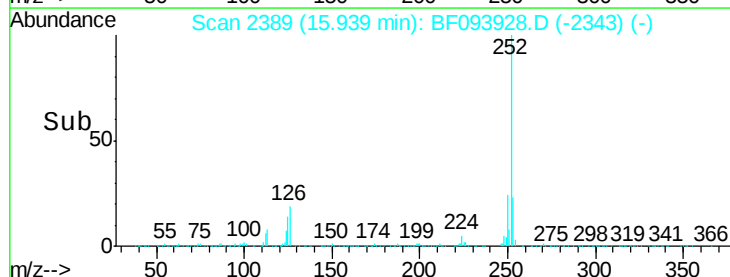
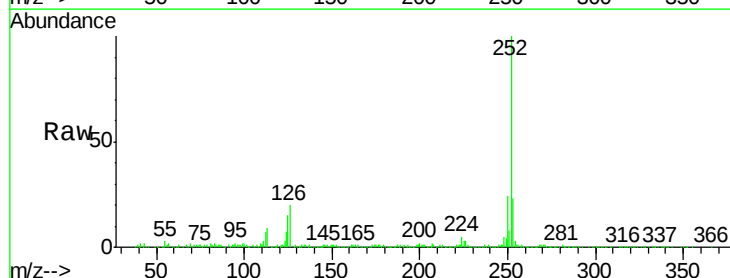
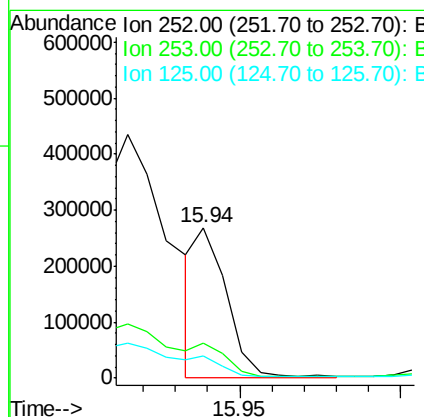
RT: 15.94 min Scan# 2389

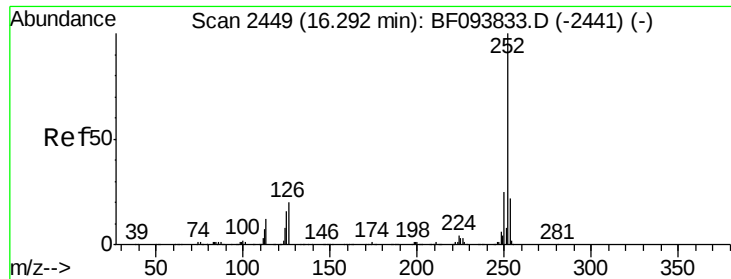
Delta R.T. -0.03 min

Lab File: BF093928.D

Acq: 25 Mar 2017 1:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 185779 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.4  | 18.4  | 27.6   |
| 125       | 14.7  | 13.1  | 19.7   |





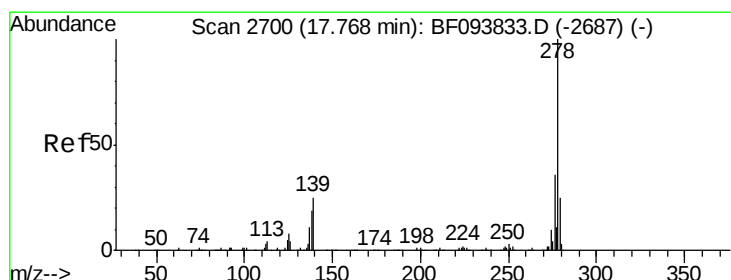
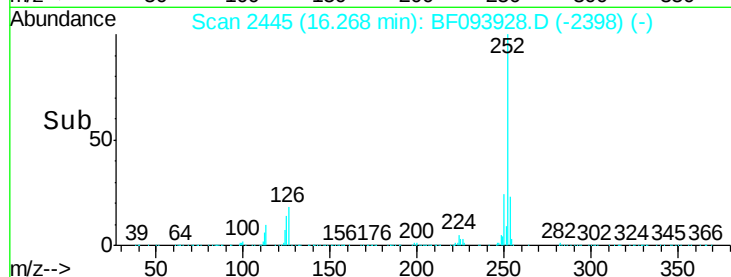
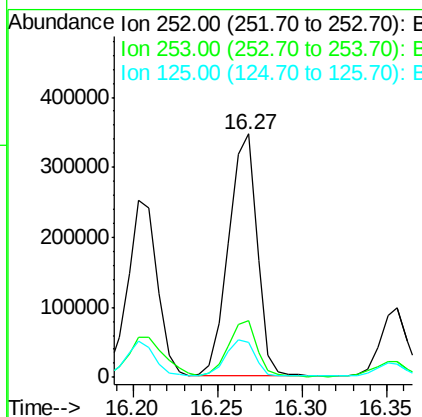
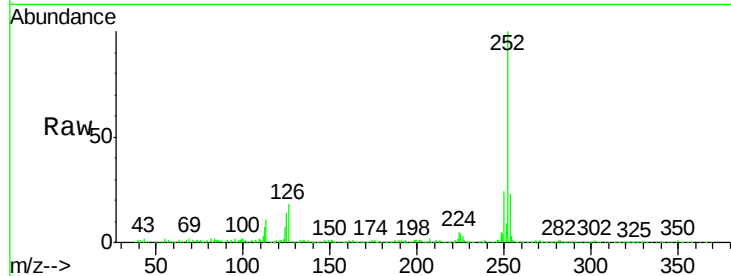
#89  
Benzo(a)pyrene  
Concen: 28.82 ng  
RT: 16.27 min Scan# 2445  
Delta R.T. -0.02 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.5  | 26.3  |
| 125     | 14.1  | 11.0  | 16.4  |

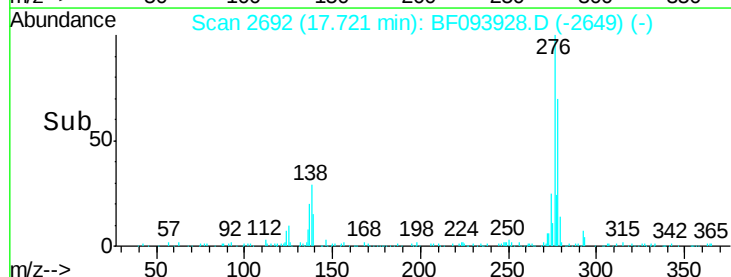
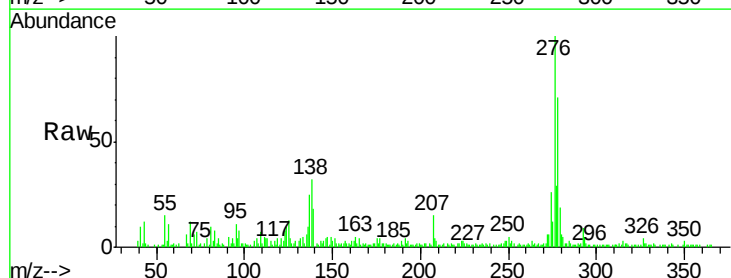
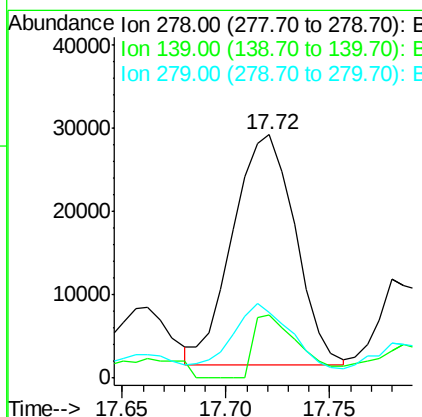
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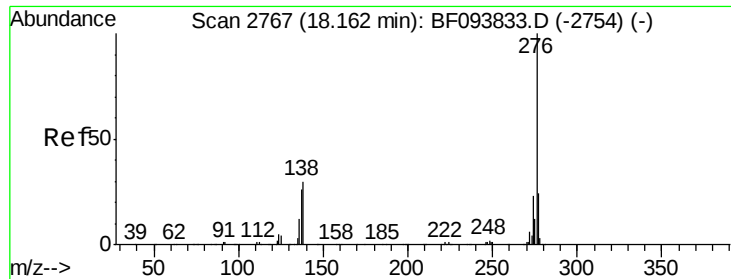
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#90  
Dibenzo(a,h)anthracene  
Concen: 4.84 ng m  
RT: 17.72 min Scan# 2692  
Delta R.T. -0.05 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 25.8  | 16.6  | 24.8# |
| 279     | 27.2  | 19.3  | 28.9  |





#91  
Benzo(a,h,i)perylene  
Concen: 16.10 ng  
RT: 18.12 min Scan# 2759  
Delta R.T. -0.05 min  
Lab File: BF093928.D  
Acq: 25 Mar 2017 1:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-R14-ESW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 22.9  | 18.6  | 28.0  |
| 138     | 31.3  | 25.4  | 38.0  |

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