

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\  
 Data File : BF094510.D  
 Acq On : 19 Apr 2017 2:14  
 Operator : SJ/MA  
 Sample : I2708-10 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Y9-BASE

Manual Integrations  
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mohammad  
 4/19/2017 1:34:05 PM

Quant Time: Apr 19 04:29:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.77  | 152  | 105095   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.27  | 136  | 398799   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.40  | 164  | 145038   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 255082   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.48 | 240  | 238131   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 16.10 | 264  | 182493   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.33  | 112  | 138029   | 21.79 | ng    | 0.02     |
| 7) Phenol-d6                | 5.40  | 99   | 173267   | 23.20 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.41  | 82   | 45389    | 7.03  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330  | 16128    | 14.22 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.58  | 172  | 195153   | 19.80 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.20 | 244  | 143864   | 16.15 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 48) Acenaphthylene          | 9.22  | 152  | 67378    | 4.59  | ng    | 97       |
| 49) Dimethylphthalate       | 9.09  | 163  | 49559    | 4.59  | ng    | 96       |
| 70) Phenanthrene            | 11.25 | 178  | 138692   | 9.66  | ng    | 99       |
| 71) Anthracene              | 11.31 | 178  | 61615    | 4.15  | ng    | 98       |
| 74) Fluoranthene            | 12.72 | 202  | 589904   | 39.62 | ng    | 98       |
| 77) Pyrene                  | 12.99 | 202  | 627970   | 37.75 | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.47 | 228  | 328605   | 23.74 | ng    | 99       |
| 82) Chrysene                | 14.51 | 228  | 286789   | 22.67 | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.38 | 276  | 138787   | 11.53 | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 15.70 | 252  | 367608m  | 32.93 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.72 | 252  | 106197m  | 10.05 | ng    |          |
| 89) Benzo(a)pyrene          | 16.04 | 252  | 259359   | 24.97 | ng    | 94       |
| 90) Dibenzo(a,h)anthracene  | 17.39 | 278  | 29799    | 3.46  | ng    | # 85     |
| 91) Benzo(a,h,i)perylene    | 17.75 | 276  | 123709   | 14.09 | ng    | 97       |

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

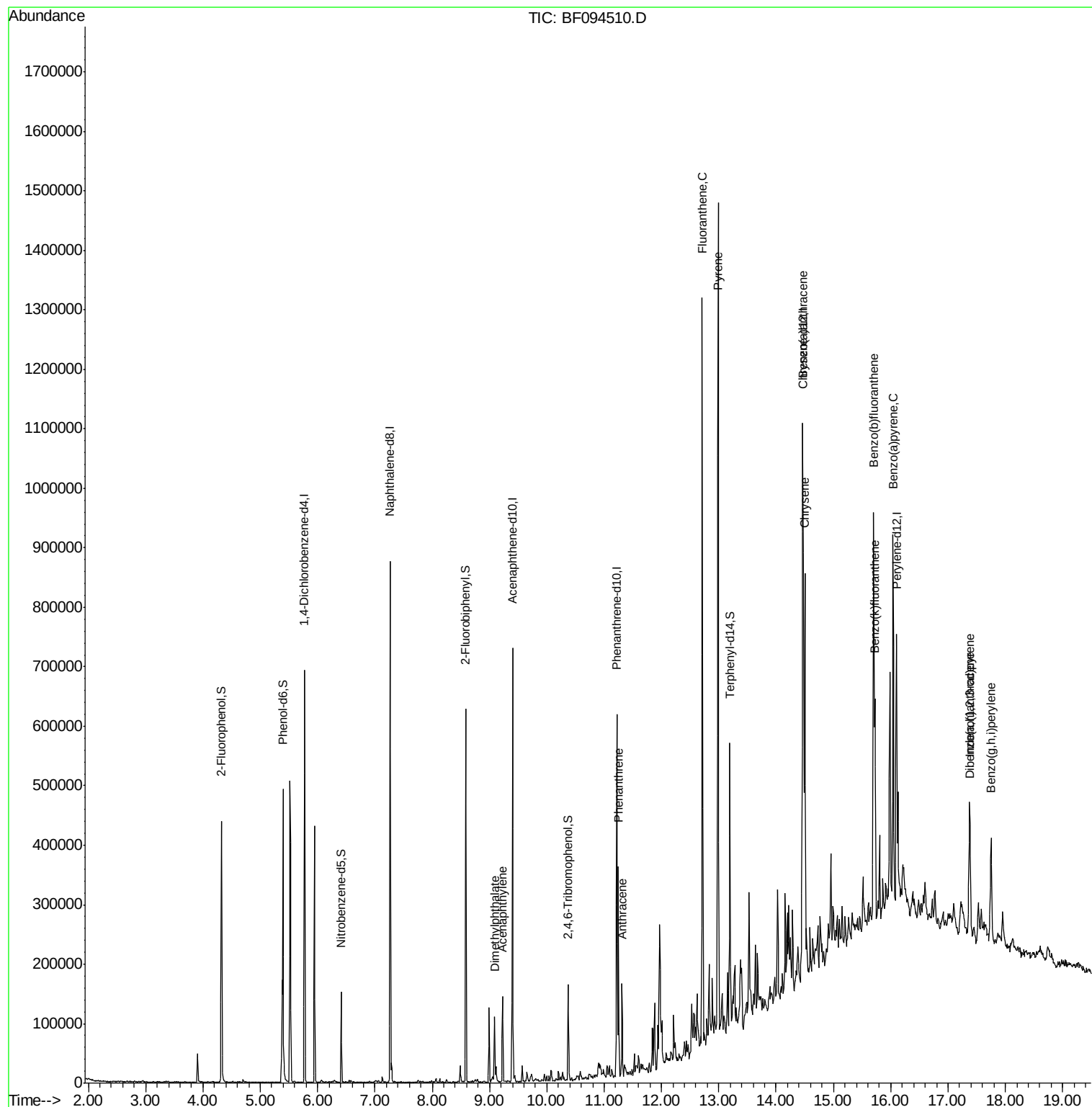
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\  
Data File : BF094510.D  
Acq On : 19 Apr 2017 2:14  
Operator : SJ/MA  
Sample : I2708-10 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

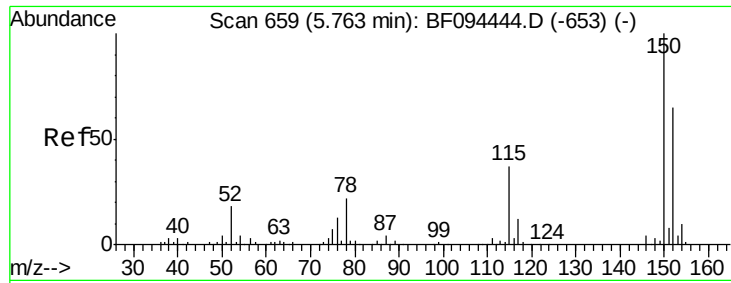
Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

Manual Integrations  
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Quant Time: Apr 19 04:29:52 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 17 14:59:23 2017  
Response via : Initial Calibration





#1

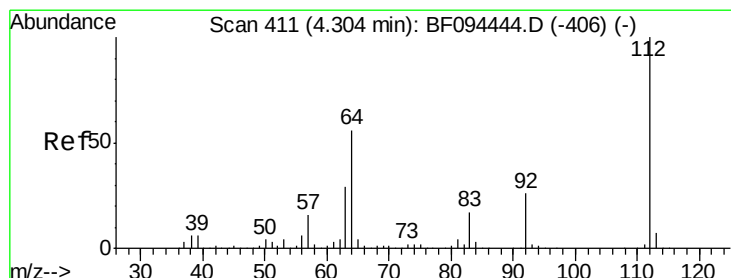
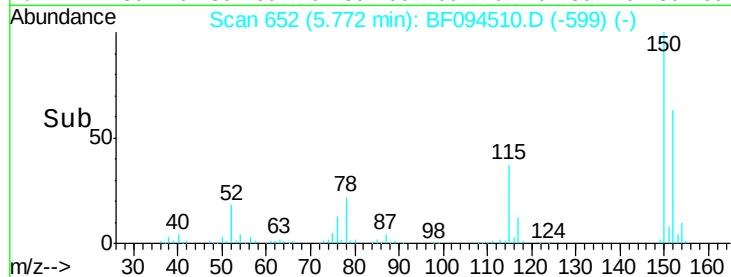
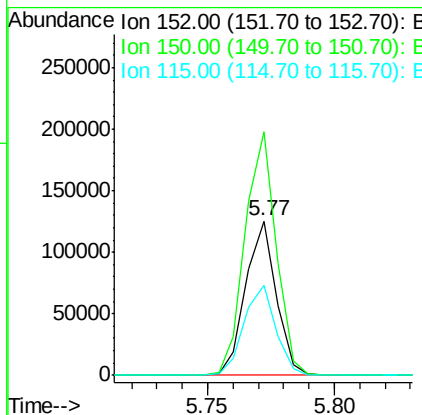
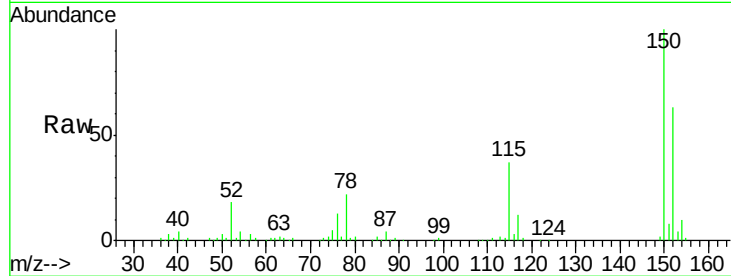
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.77 min Scan# 652  
Delta R.T. 0.01 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.9 | 126.2 | 189.2 |
| 115     | 58.5  | 52.2  | 78.2  |

Manual Integrations  
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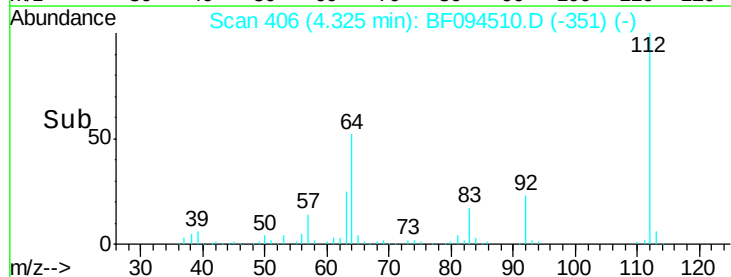
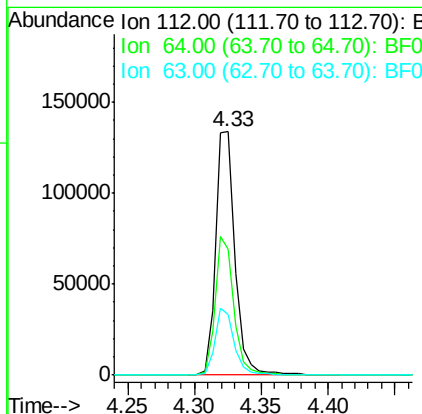
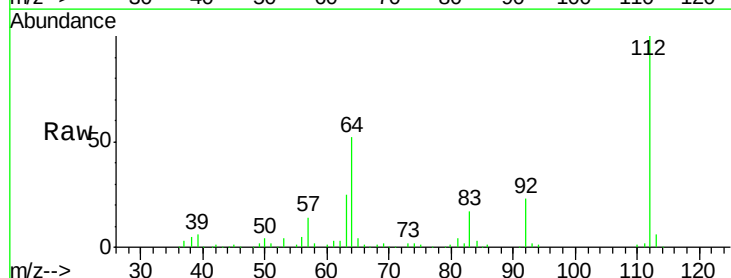
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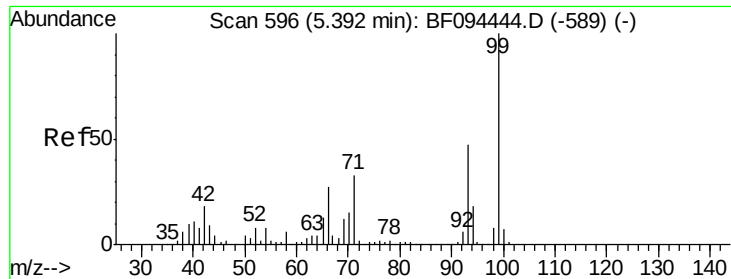


#5

2-Fluorophenol  
Concen: 21.79 ng  
RT: 4.33 min Scan# 406  
Delta R.T. 0.02 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.9  | 46.0  | 69.0  |
| 63      | 24.7  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 23.20 ng

RT: 5.40 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA\_F

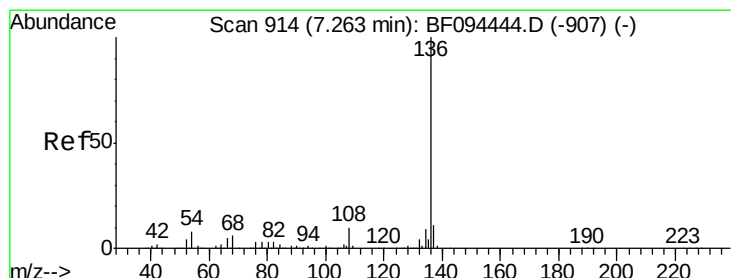
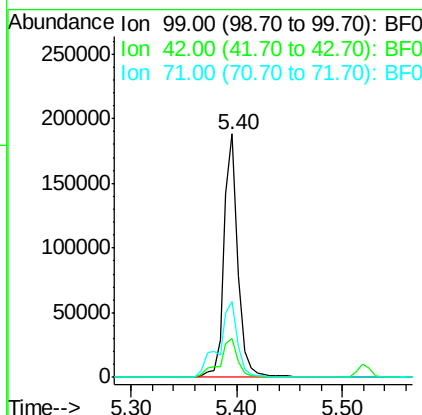
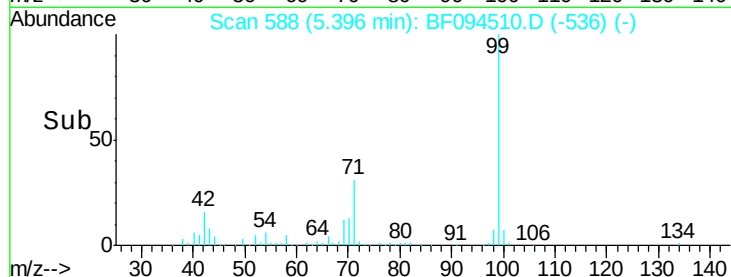
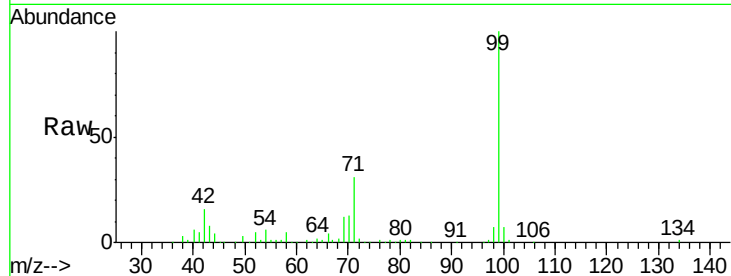
ClientSampleId :

E2-Y9-BASE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 173267 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.1  | 13.5  | 20.3   |
| 71        | 31.3  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.00 ng

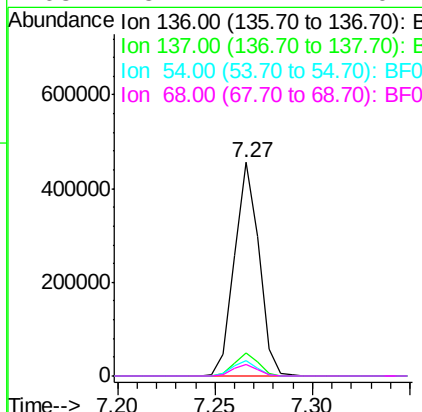
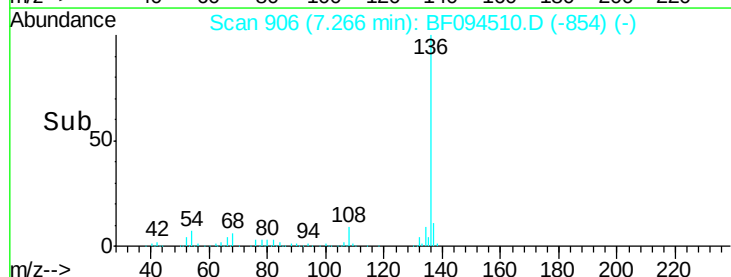
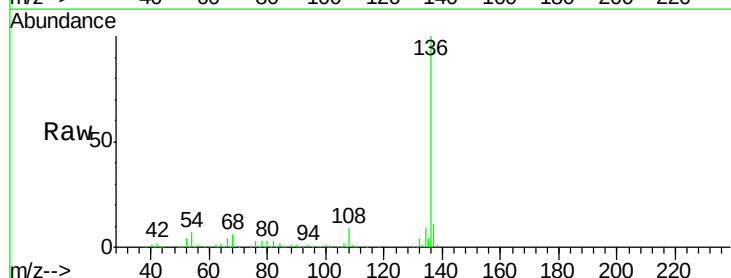
RT: 7.27 min Scan# 906

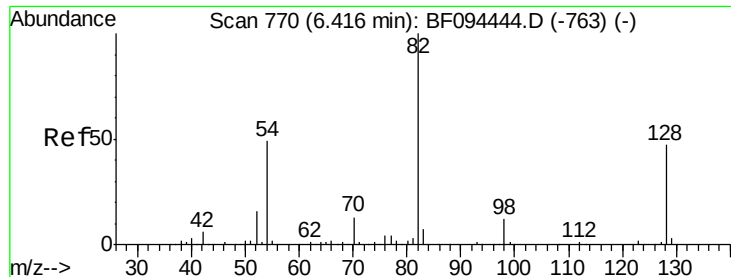
Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 398799 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.5   | 12.7   |
| 54        | 6.9   | 4.9   | 7.3    |
| 68        | 5.7   | 4.1   | 6.1    |





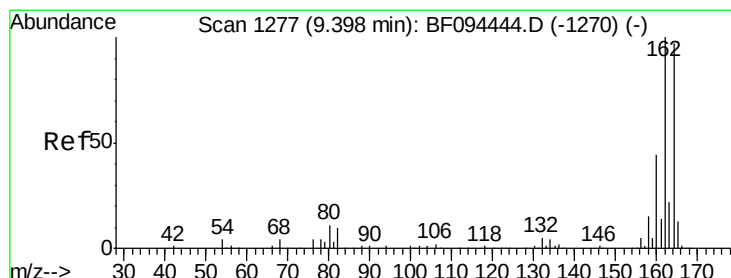
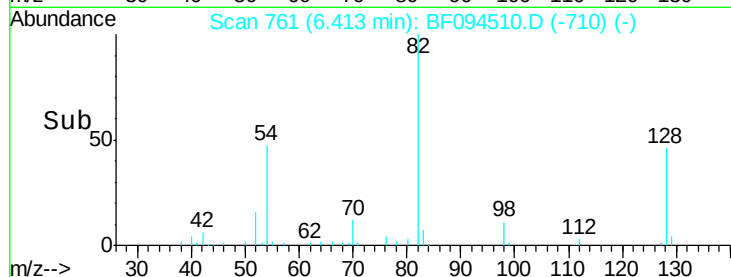
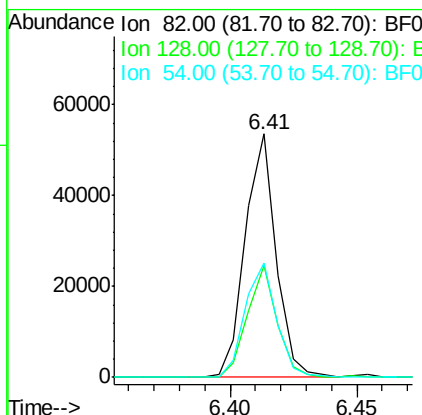
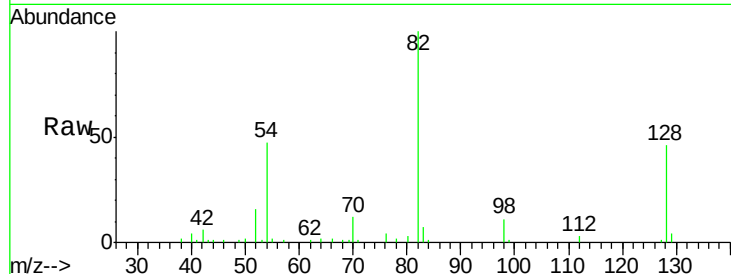
#23  
 Nitrobenzene-d5  
 Concen: 7.03 ng  
 RT: 6.41 min Scan# 761  
 Delta R.T. -0.00 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Y9-BASE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 45389 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 45.7  | 34.0  | 51.0  |
| 54        | 46.9  | 42.2  | 63.2  |

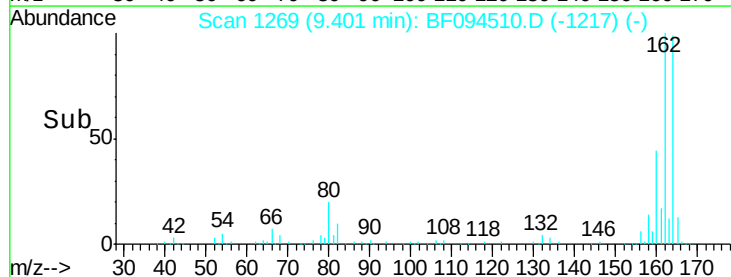
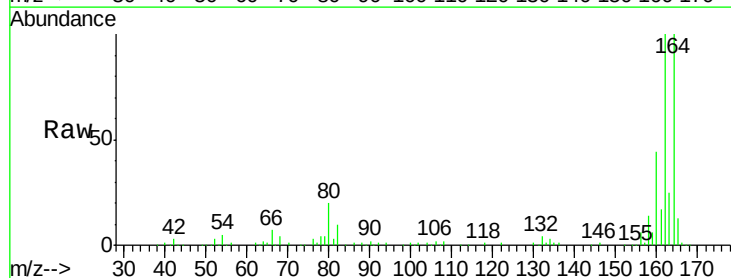
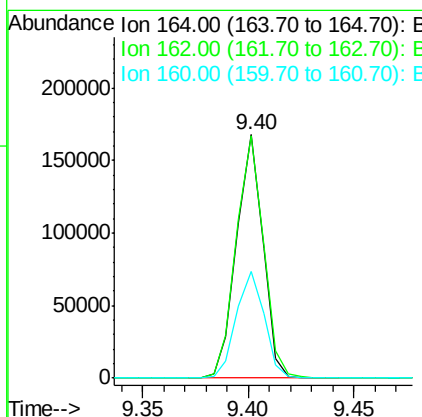
Manual Integrations  
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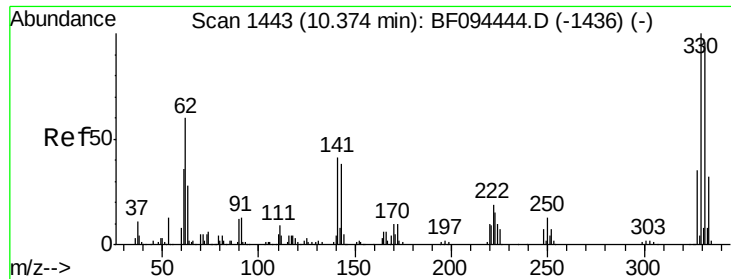
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.40 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 145038 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 99.7  | 82.6  | 123.8  |
| 160       | 43.9  | 36.2  | 54.2   |





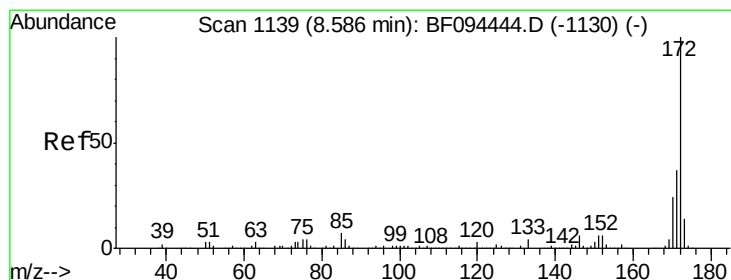
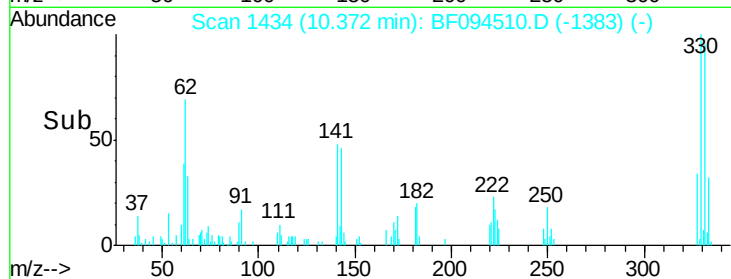
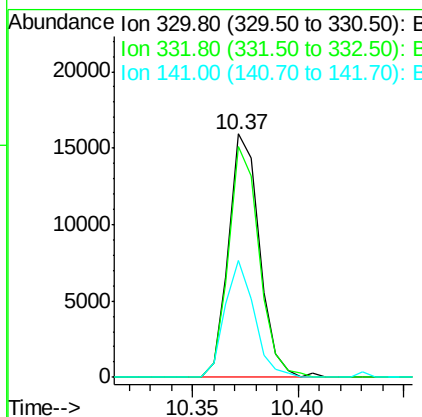
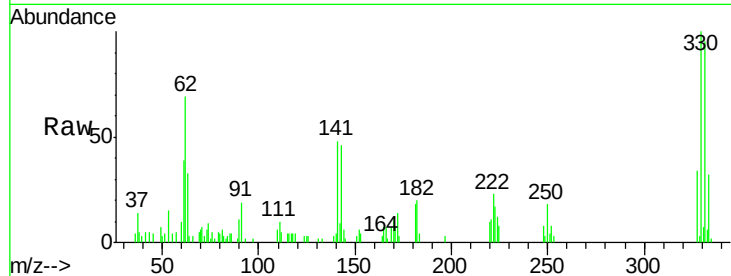
#41  
 2,4,6-Tribromophenol  
 Concen: 14.22 ng  
 RT: 10.37 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Y9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.7  | 76.6  | 115.0 |
| 141     | 45.7  | 31.4  | 47.2  |

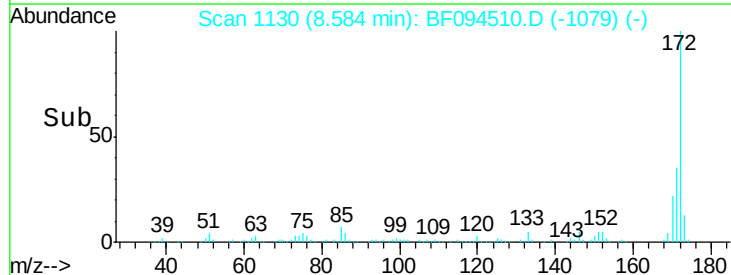
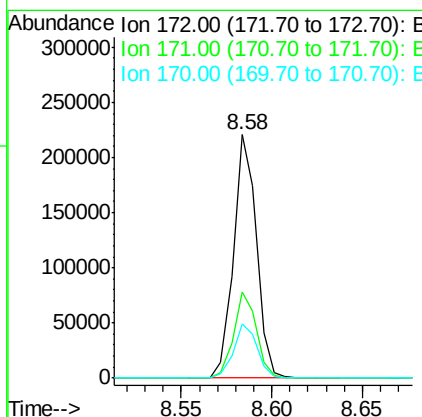
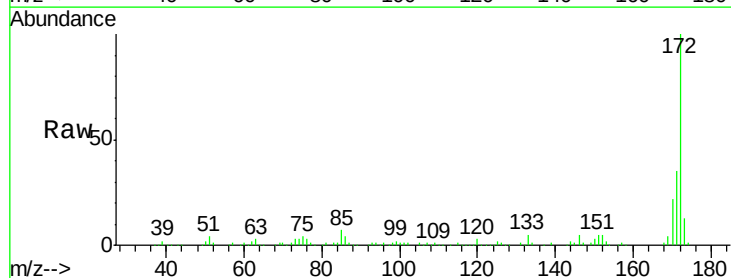
Manual Integrations  
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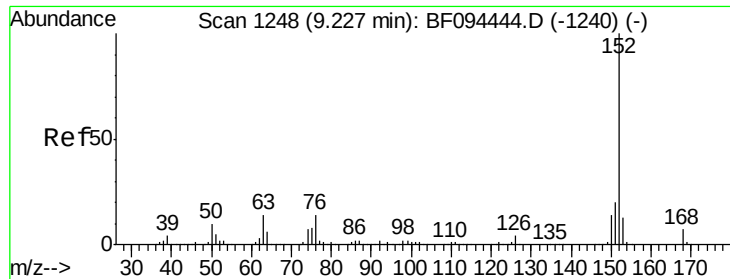
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#44  
 2-Fluorobiphenyl  
 Concen: 19.80 ng  
 RT: 8.58 min Scan# 1130  
 Delta R.T. -0.00 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.6  | 44.4  |
| 170     | 22.4  | 19.8  | 29.8  |





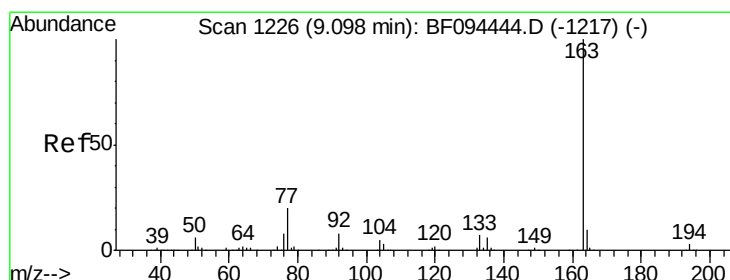
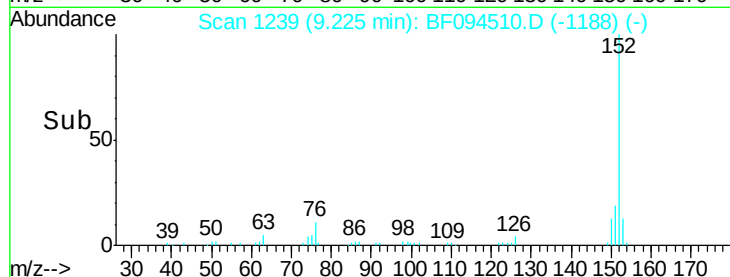
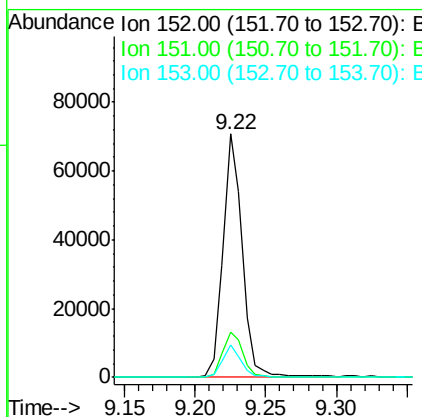
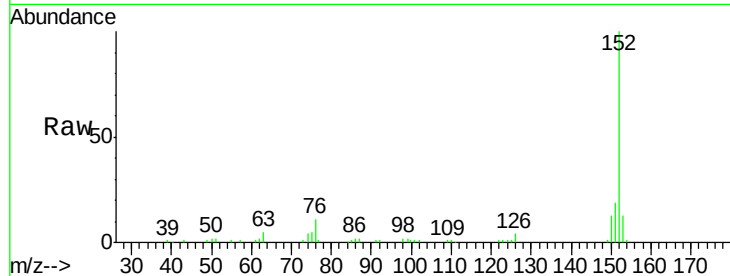
#48  
Acenaphthylene  
Concen: 4.59 ng  
RT: 9.22 min Scan# 1239  
Delta R.T. -0.00 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.6  | 16.8  | 25.2  |
| 153     | 13.3  | 10.8  | 16.2  |

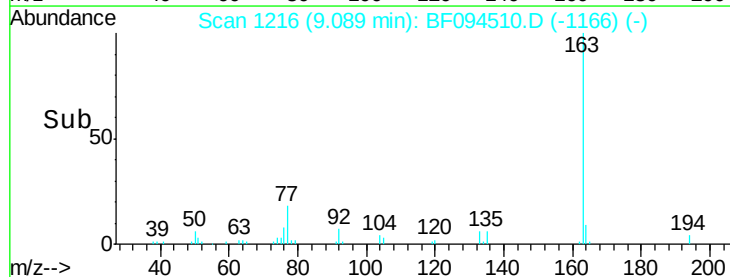
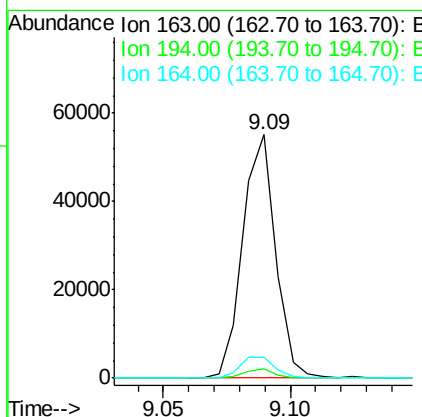
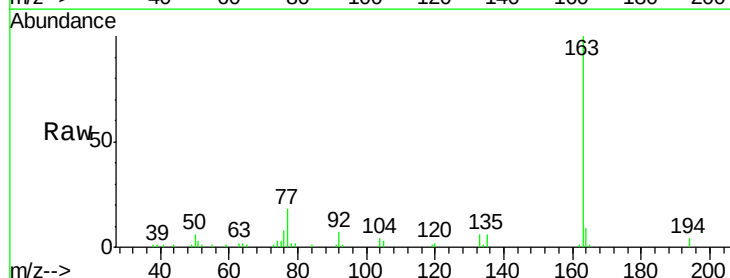
Manual Integrations  
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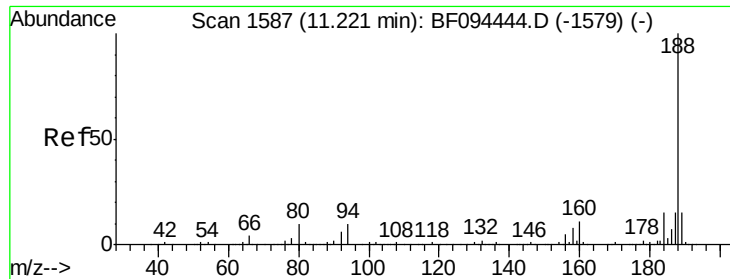
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4/19/2017 1:34:05 PM



#49  
Dimethylphthalate  
Concen: 4.59 ng  
RT: 9.09 min Scan# 1216  
Delta R.T. -0.01 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.8   | 2.6   | 4.0   |
| 164     | 8.8   | 8.4   | 12.6  |





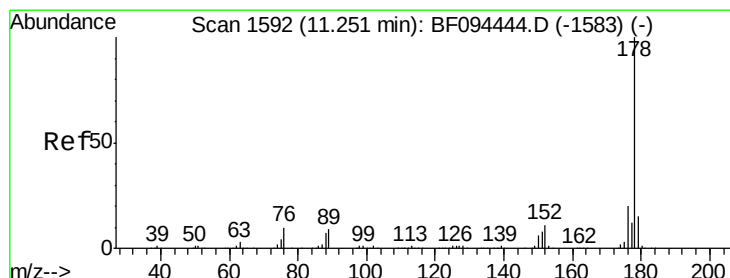
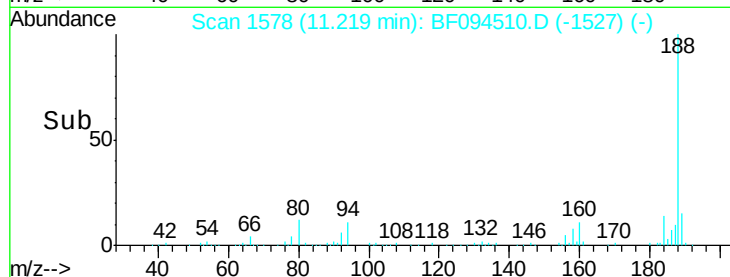
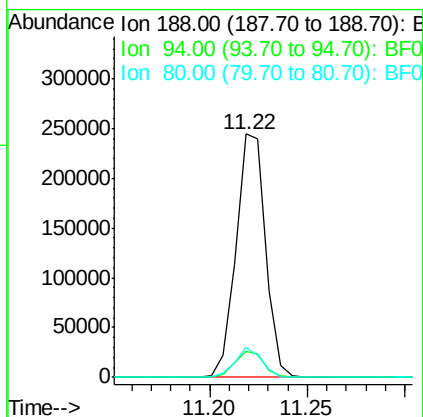
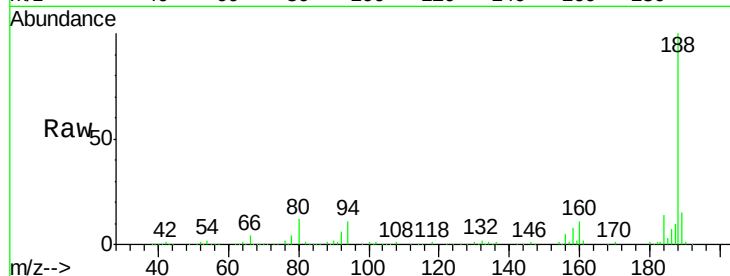
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.22 min Scan# 1578  
Delta R.T. -0.00 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.6  | 9.4        | 14.2  |
| 80      | 12.0  | 10.2       | 15.2  |

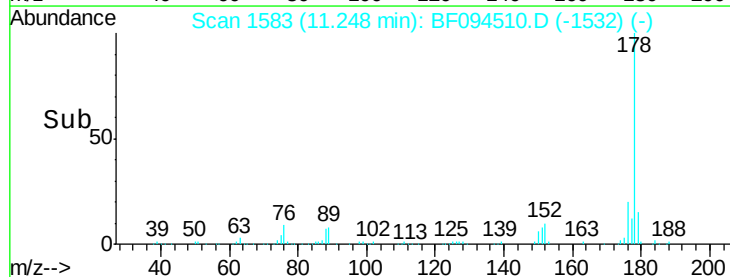
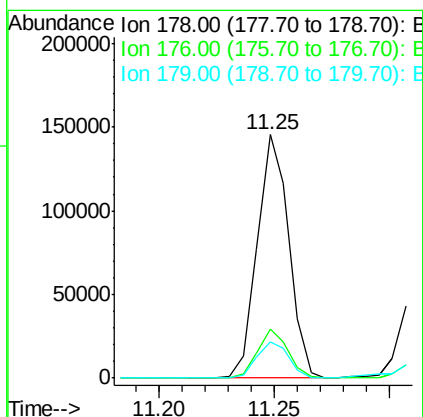
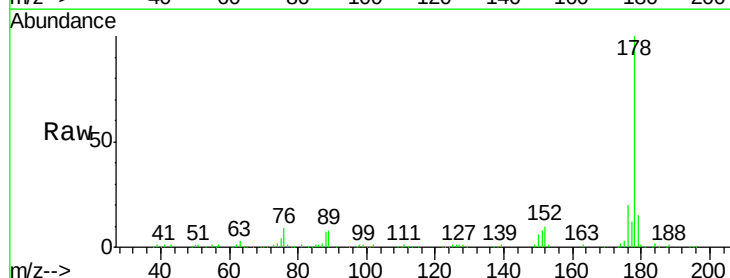
Manual Integrations  
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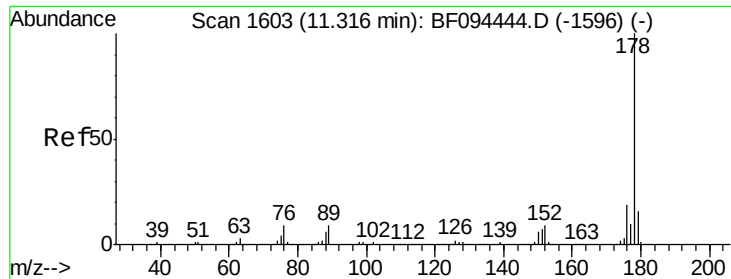


#70  
Phenanthrene  
Concen: 9.66 ng  
RT: 11.25 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 20.1  | 16.2       | 24.4  |
| 179     | 15.1  | 12.6       | 19.0  |







#71

Anthracene

Concen: 4.15 ng

RT: 11.31 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA\_F

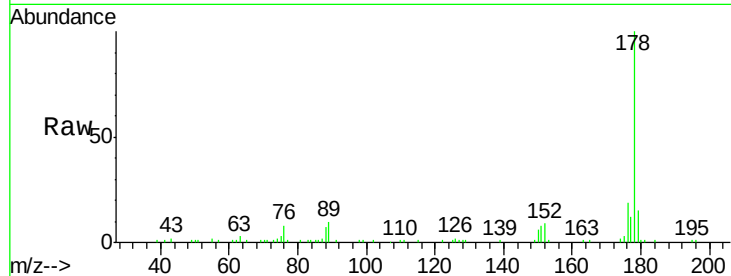
ClientSampleId :

E2-Y9-BASE

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 178     | 100  |       | 61615 |       |       |
| 176     | 19.3 |       | 15.8  | 23.8  |       |
| 179     | 14.9 |       | 12.7  | 19.1  |       |

Manual Integrations  
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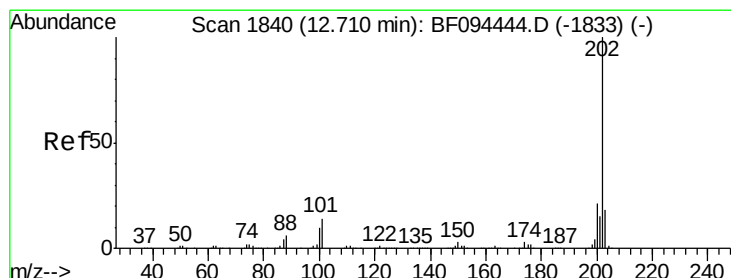
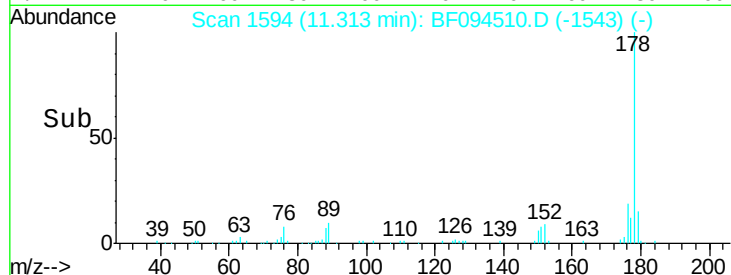
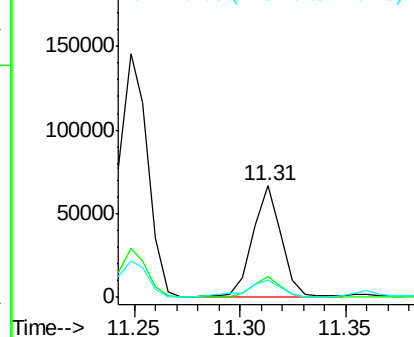
mohammad  
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 39.62 ng

RT: 12.72 min Scan# 1833

Delta R.T. 0.01 min

Lab File: BF094510.D

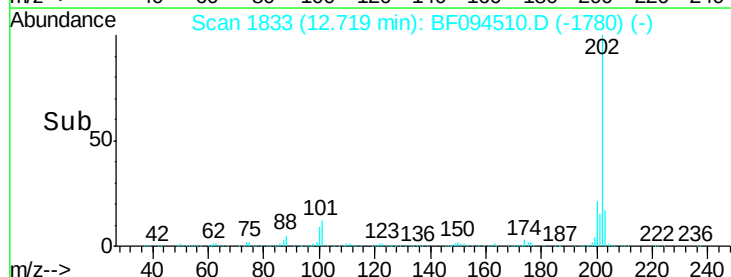
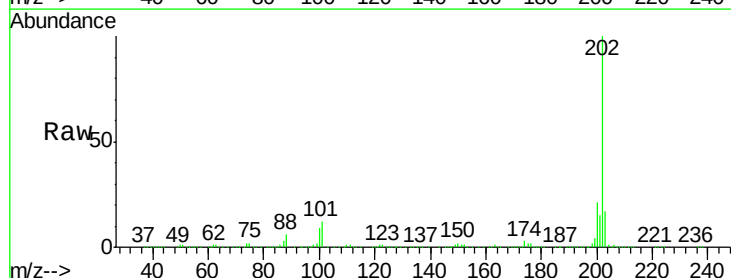
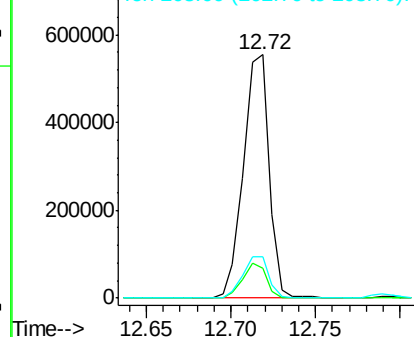
Acq: 19 Apr 2017 2:14

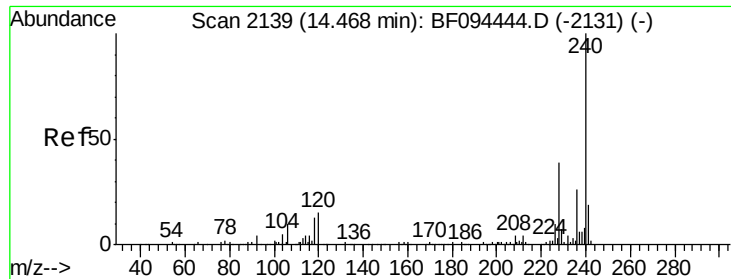
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 589904 |       |       |
| 101     | 12.3 |       | 0.0    | 33.2  |       |
| 203     | 17.2 |       | 0.0    | 38.1  |       |

Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.48 min Scan# 2132

Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA\_F

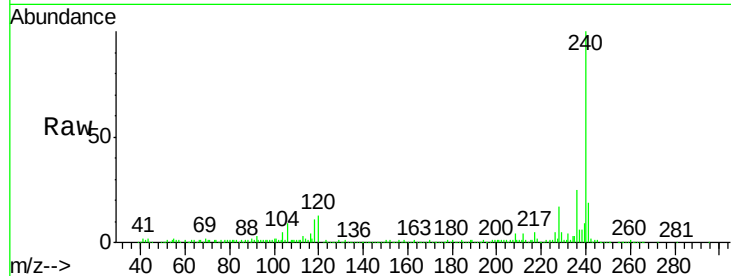
ClientSampleId :

E2-Y9-BASE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 238131 |       |       |
| 120     | 12.8  | 5.8    | 8.8#  |       |
| 236     | 25.2  | 20.5   | 30.7  |       |

Manual Integrations  
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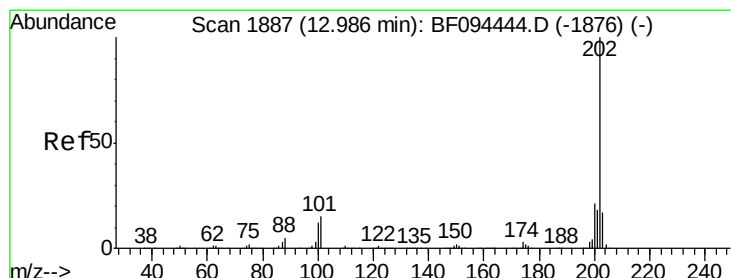
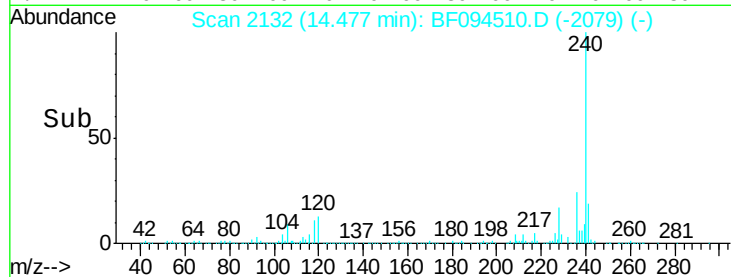
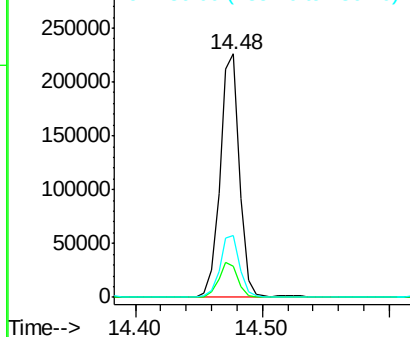


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 37.75 ng

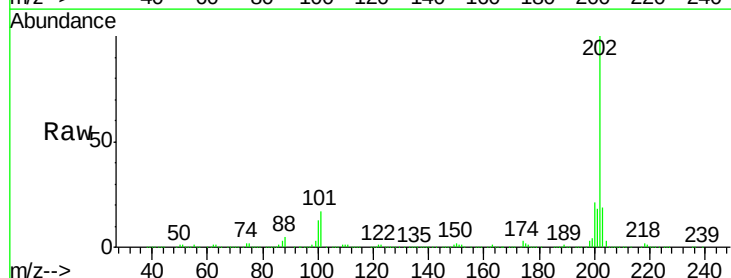
RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 627970 |       |       |
| 200     | 21.1  | 17.6   | 26.4  |       |
| 203     | 18.8  | 14.4   | 21.6  |       |

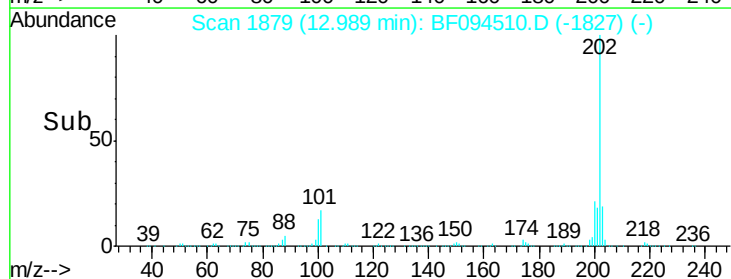
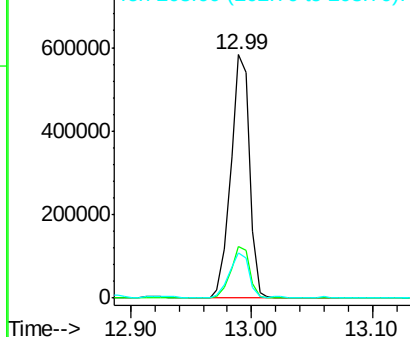


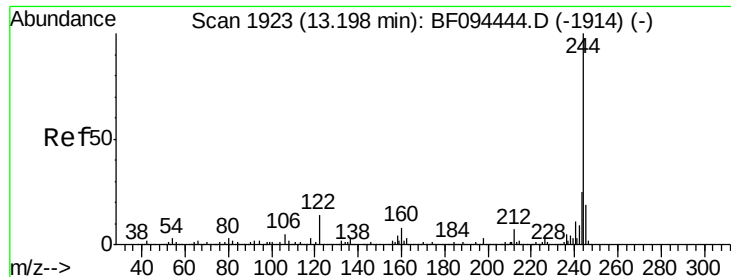
Abundance

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





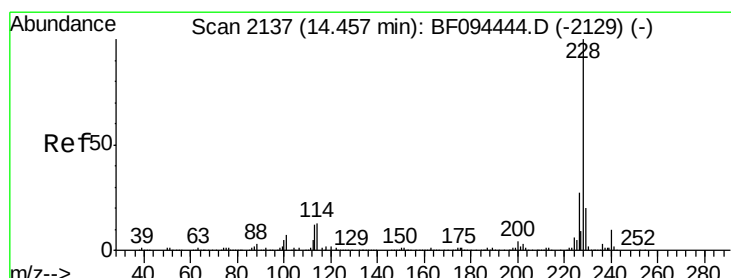
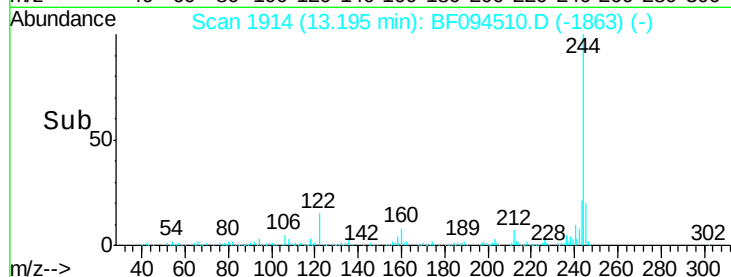
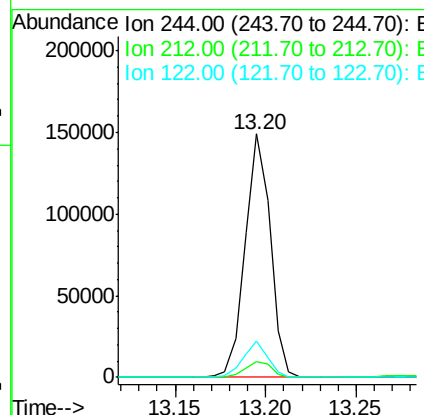
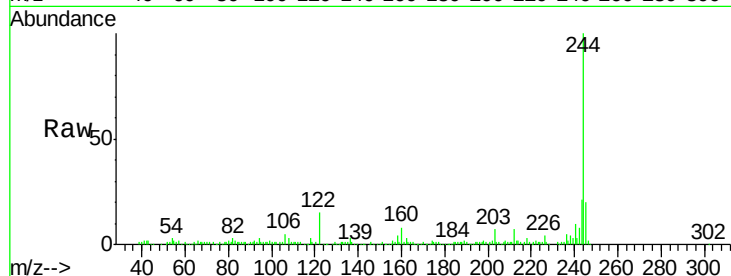
#78  
 Terphenyl-d14  
 Concen: 16.15 ng  
 RT: 13.20 min Scan# 1914  
 Delta R.T. -0.00 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-Y9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 6.0   | 9.0   |
| 122     | 14.8  | 10.3  | 15.5  |

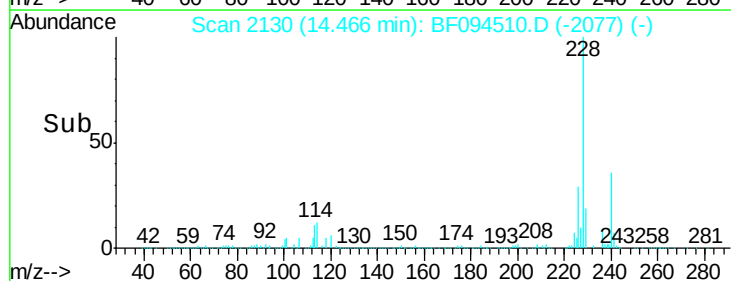
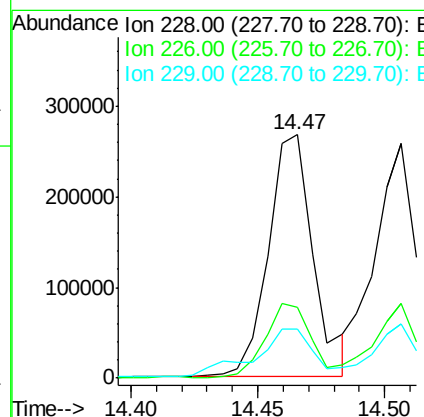
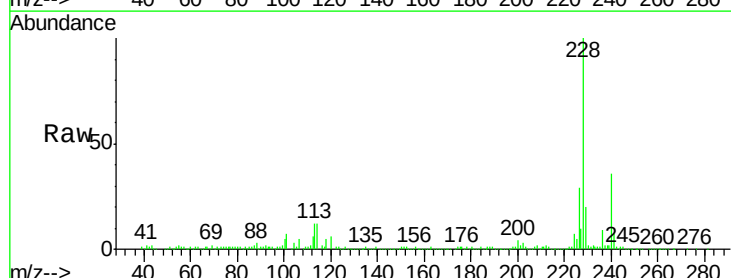
Manual Integrations  
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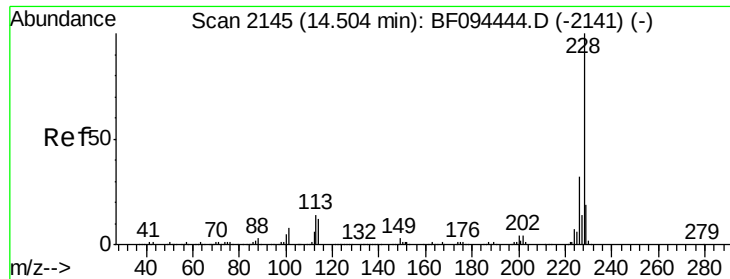
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#80  
 Benzo(a)anthracene  
 Concen: 23.74 ng  
 RT: 14.47 min Scan# 2130  
 Delta R.T. 0.01 min  
 Lab File: BF094510.D  
 Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 22.6  | 33.8  |
| 229     | 20.4  | 16.3  | 24.5  |





#82

Chrysene

Concen: 22.67 ng

RT: 14.51 min Scan# 2137

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA\_F

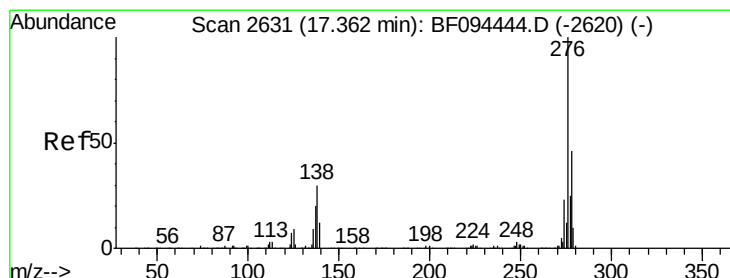
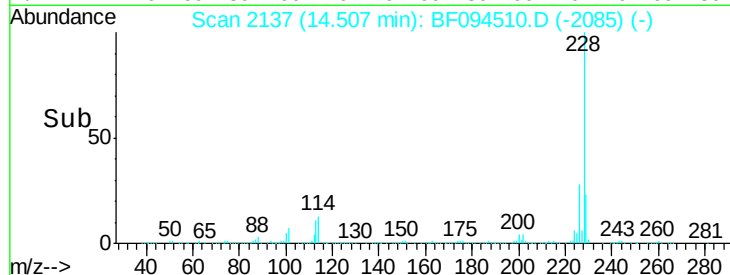
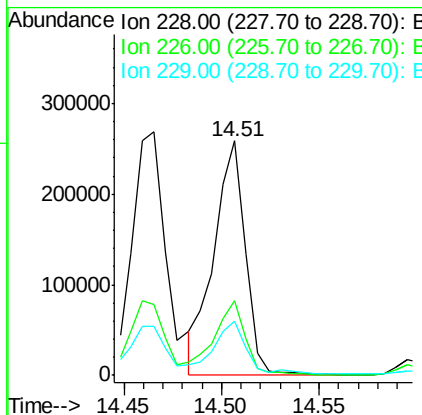
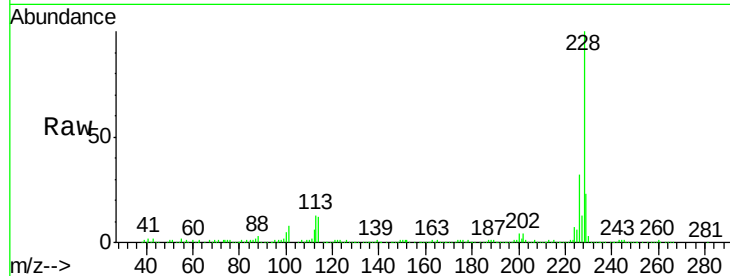
ClientSampleId :

E2-Y9-BASE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 286789 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.7  | 24.9  | 37.3   |
| 229       | 23.0  | 15.8  | 23.6   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 11.53 ng

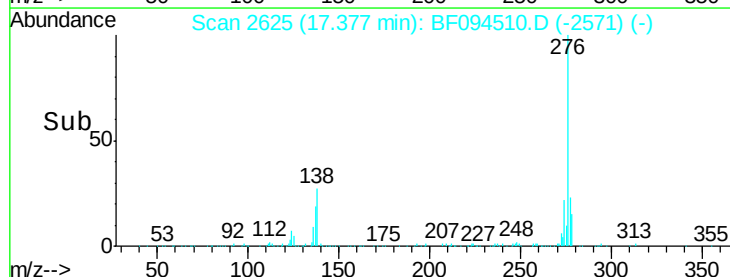
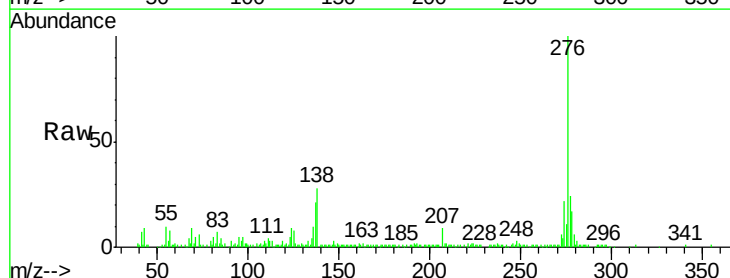
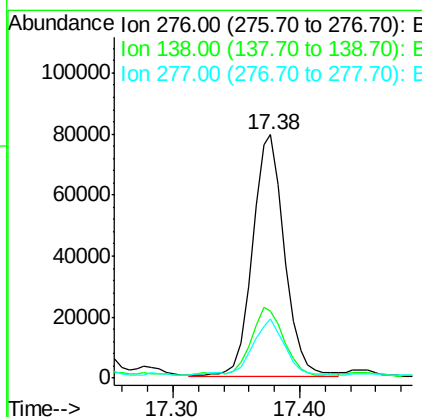
RT: 17.38 min Scan# 2625

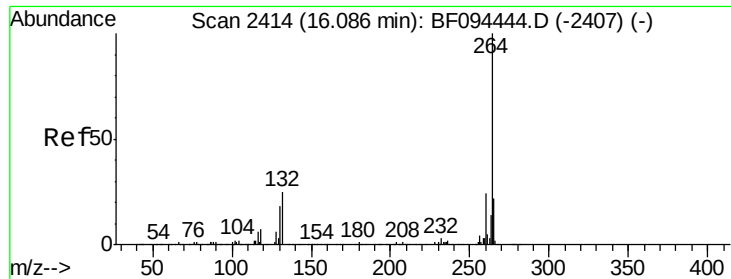
Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 138787 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.2  | 27.8  | 41.6   |
| 277       | 23.7  | 20.2  | 30.4   |





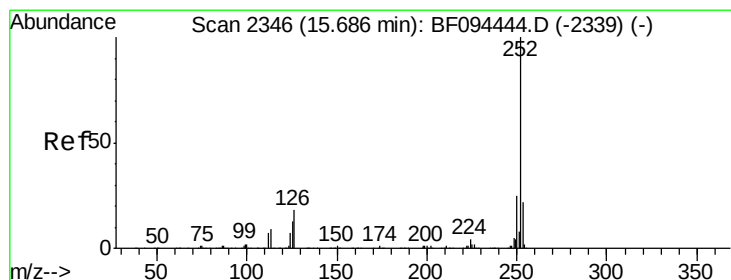
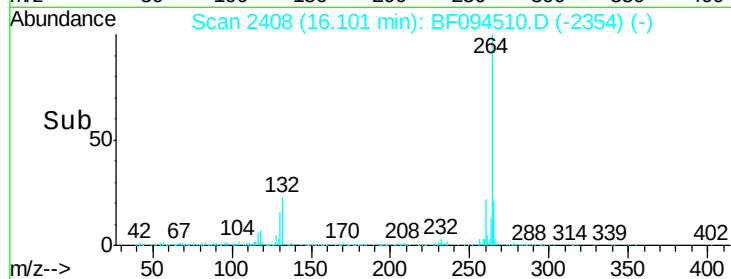
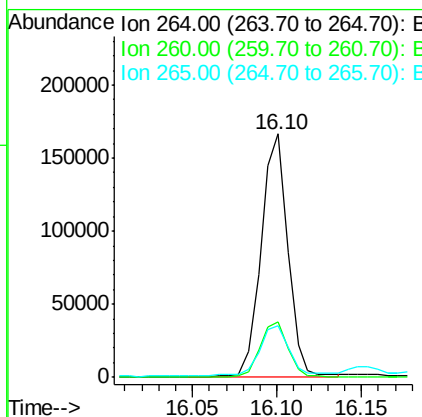
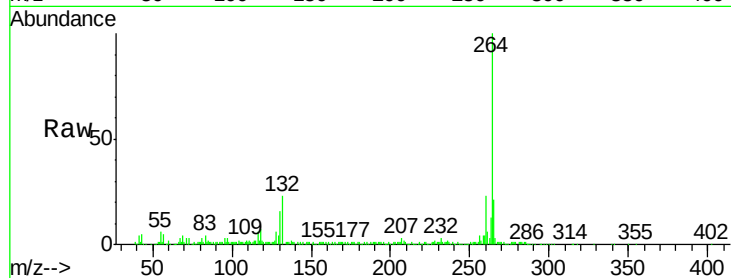
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 16.10 min Scan# 2408  
Delta R.T. 0.01 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 19.5  | 29.3  |
| 265     | 21.3  | 17.2  | 25.8  |

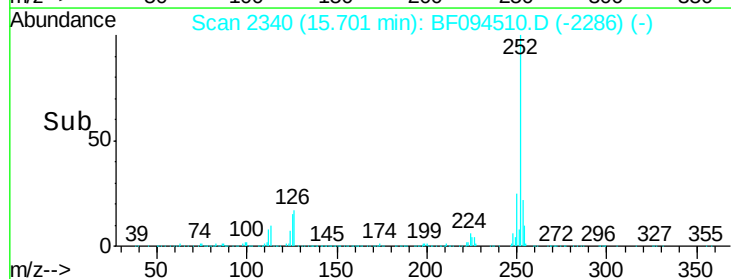
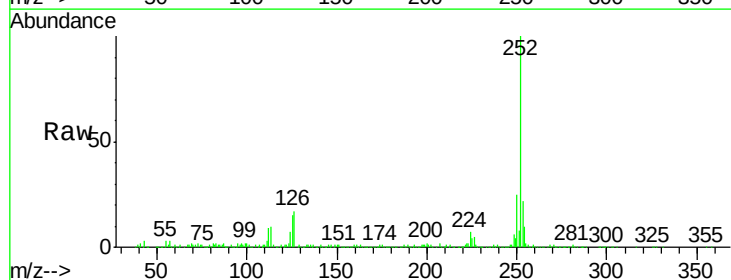
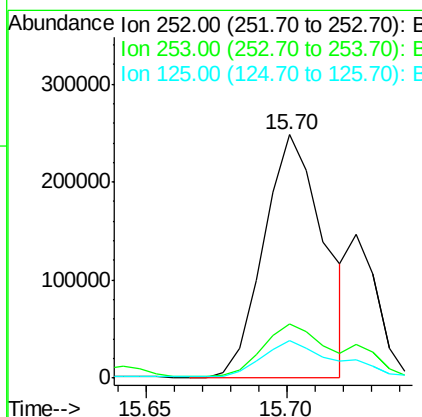
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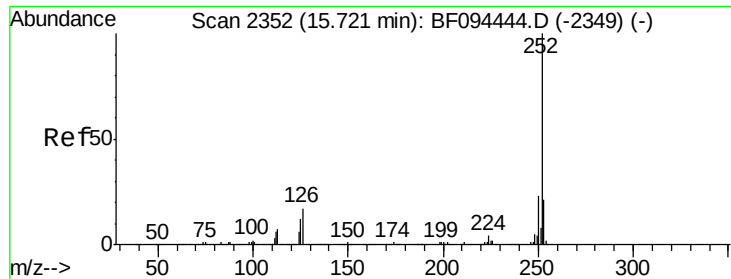
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#87  
Benzo(b)fluoranthene  
Concen: 32.93 ng m  
RT: 15.70 min Scan# 2340  
Delta R.T. 0.01 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.1  | 27.1  |
| 125     | 15.4  | 9.8   | 14.8  |





#88

Benzo(k)fluoranthene

Concen: 10.05 ng m

RT: 15.72 min Scan# 2344

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA\_F

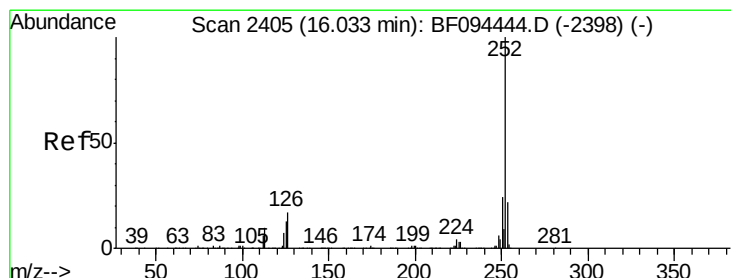
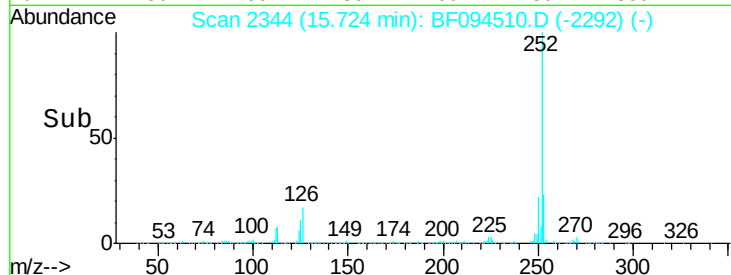
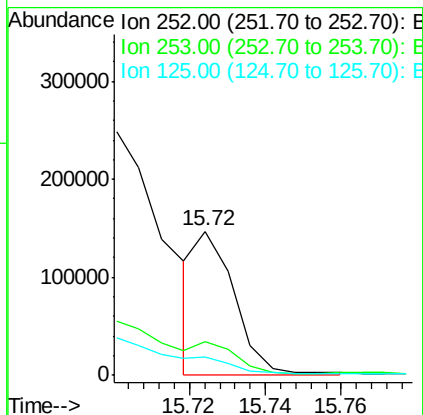
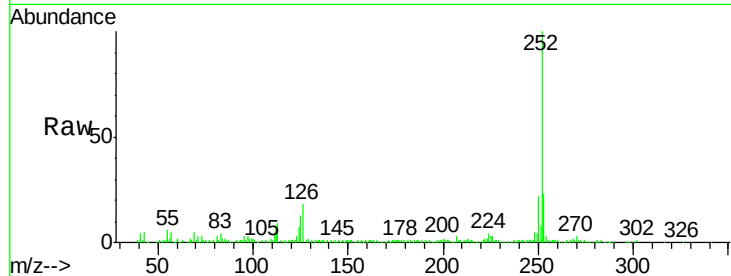
ClientSampleId :

E2-Y9-BASE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 106197 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 18.4  | 27.6   |
| 125       | 12.6  | 13.1  | 19.7#  |

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#89

Benzo(a)pyrene

Concen: 24.97 ng

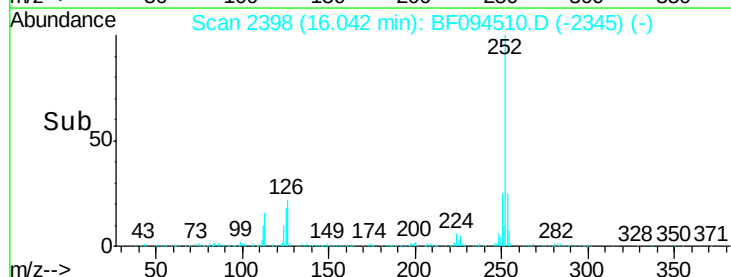
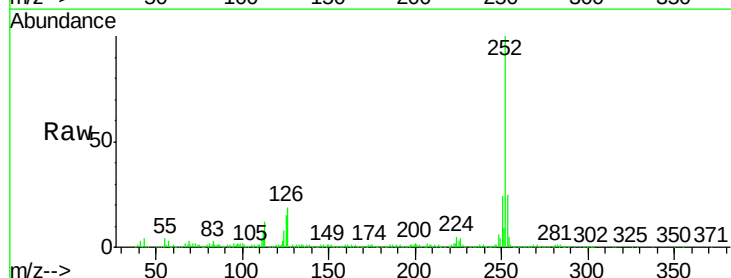
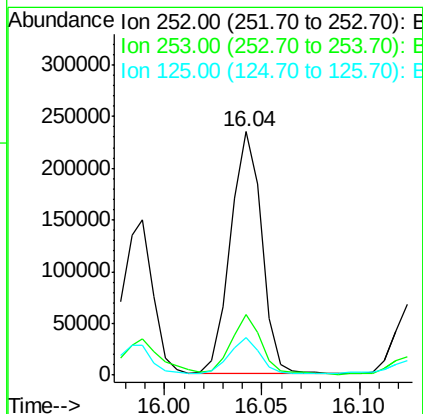
RT: 16.04 min Scan# 2398

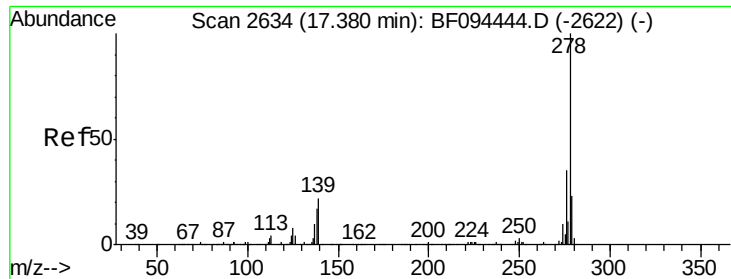
Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 259359 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.0  | 17.5  | 26.3   |
| 125       | 15.4  | 11.0  | 16.4   |





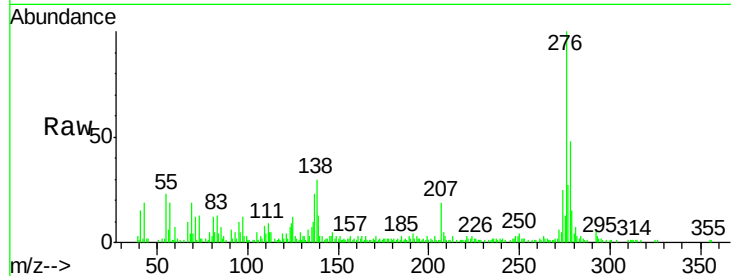
#90  
Dibenzo(a,h)anthracene  
Concen: 3.46 ng  
RT: 17.39 min Scan# 2627  
Delta R.T. 0.01 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :  
E2-Y9-BASE

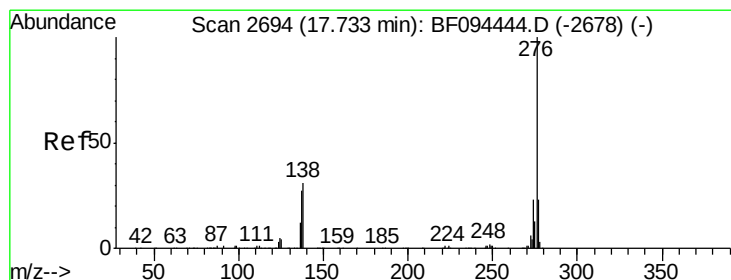
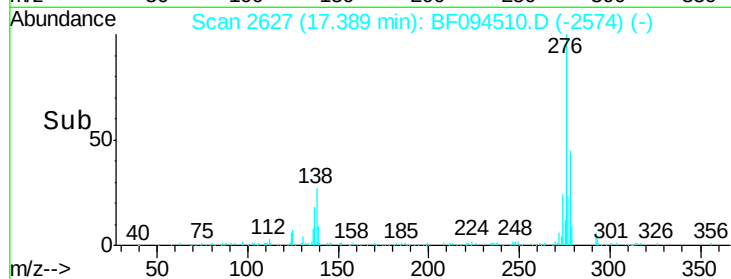
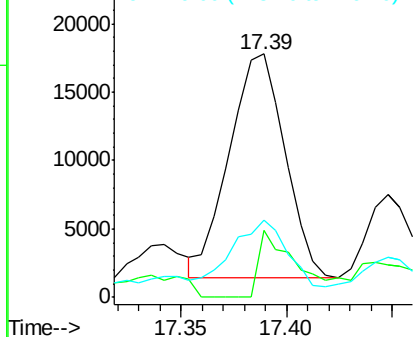
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 27.3  | 16.6  | 24.8# |
| 279     | 31.6  | 19.3  | 28.9# |

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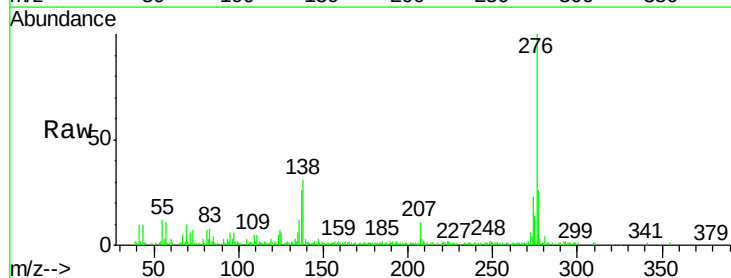


Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#91  
Benzo(g,h,i)perylene  
Concen: 14.09 ng  
RT: 17.75 min Scan# 2689  
Delta R.T. 0.02 min  
Lab File: BF094510.D  
Acq: 19 Apr 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.0  | 18.6  | 28.0  |
| 138     | 30.9  | 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

