

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\  
 Data File : BF089065.D  
 Acq On : 16 Jul 2016 20:13  
 Operator : UM/SJ  
 Sample : H4017-11  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C5-14

## Manual Integrations

sohil  
 7/18/2016 7:38:28 PM

Quant Time: Jul 19 13:57:54 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.66  | 152  | 50961    | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.95  | 136  | 223756   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.70  | 164  | 82880    | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.19 | 188  | 130194   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.83 | 240  | 106168   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.20 | 264  | 80267    | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.27  | 112 | 399799 | 117.58 | ng | -0.02 |
| 7) Phenol-d6             | 6.33  | 99  | 534794 | 121.72 | ng | -0.02 |
| 23) Nitrobenzene-d5      | 7.23  | 82  | 273548 | 64.07  | ng | -0.05 |
| 41) 2,4,6-Tribromophenol | 10.49 | 330 | 60088  | 78.07  | ng | -0.05 |
| 44) 2-Fluorobiphenyl     | 9.03  | 172 | 447643 | 85.31  | ng | -0.05 |
| 78) Terphenyl-d14        | 12.78 | 244 | 320548 | 67.25  | ng | -0.02 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 31) Naphthalene                | 7.98  | 128 | 32419   | 2.94   | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.66  | 142 | 24600   | 3.46   | ng | # 94   |
| 48) Acenaphthylene             | 9.56  | 152 | 19990   | 2.33   | ng | 100    |
| 49) Dimethylphthalate          | 9.43  | 163 | 231187  | 39.15  | ng | 99     |
| 51) Acenaphthene               | 9.74  | 154 | 21278   | 4.05   | ng | 97     |
| 54) Dibenzofuran               | 9.91  | 168 | 18417   | 2.68   | ng | # 87   |
| 57) Fluorene                   | 10.25 | 166 | 19737   | 3.72   | ng | 98     |
| 70) Phenanthrene               | 11.21 | 178 | 349911  | 49.17  | ng | 98     |
| 71) Anthracene                 | 11.26 | 178 | 90319   | 12.76  | ng | 99     |
| 72) Carbazole                  | 11.42 | 167 | 56878   | 8.54   | ng | 100    |
| 74) Fluoranthene               | 12.40 | 202 | 831067  | 115.19 | ng | 98     |
| 77) Pylene                     | 12.63 | 202 | 726526  | 80.71  | ng | 99     |
| 80) Benzo(a)anthracene         | 13.82 | 228 | 479196  | 70.10  | ng | 98     |
| 81) 3,3'-Dichlorobenzidine     | 13.86 | 252 | 6634    | 2.58   | ng | # 14   |
| 82) Chrysene                   | 13.85 | 228 | 437120m | 64.63  | ng |        |
| 83) Bis(2-ethylhexyl)phthalate | 13.82 | 149 | 25268   | 5.51   | ng | # 97   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.49 | 276 | 156168  | 30.01  | ng | # 100  |
| 87) Benzo(b)fluoranthene       | 14.83 | 252 | 476148m | 94.56  | ng |        |
| 88) Benzo(k)fluoranthene       | 14.83 | 252 | 207891m | 47.43  | ng |        |
| 89) Benzo(a)pyrene             | 15.15 | 252 | 300566m | 70.50  | ng |        |
| 90) Dibenz(a,h)anthracene      | 16.49 | 278 | 37593m  | 10.56  | ng |        |
| 91) Benzo(g,h,i)perylene       | 16.88 | 276 | 138455  | 37.58  | ng | 99     |

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

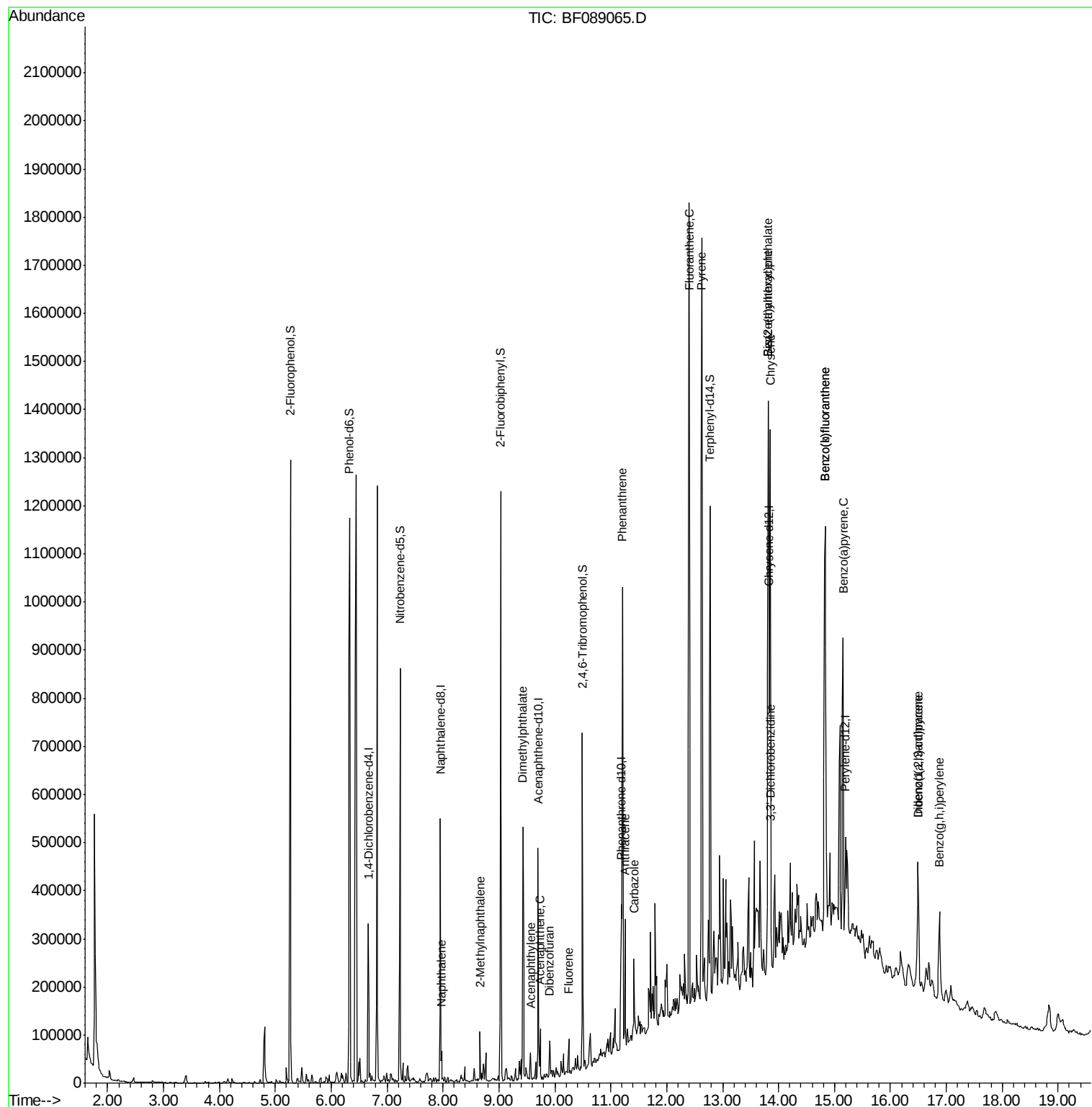
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\  
Data File : BF089065.D  
Acq On : 16 Jul 2016 20:13  
Operator : UM/SJ  
Sample : H4017-11  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
C5-14

Manual Integrations

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Quant Time: Jul 19 13:57:54 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 11 18:13:32 2016  
Response via : Initial Calibration





#1

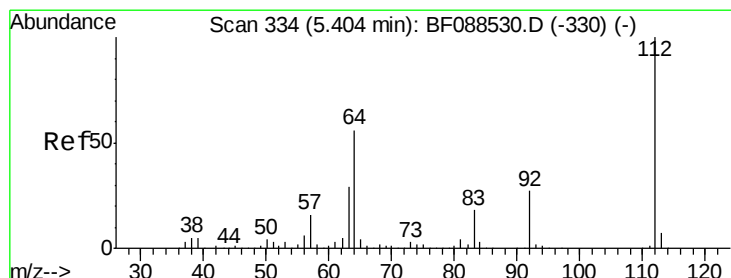
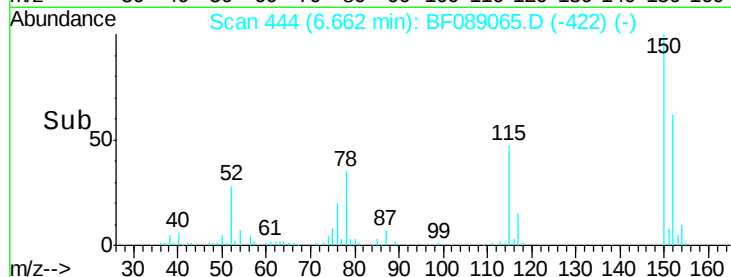
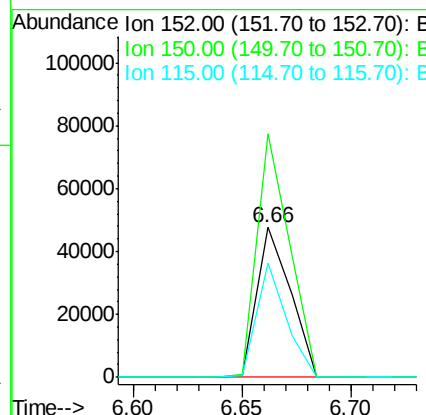
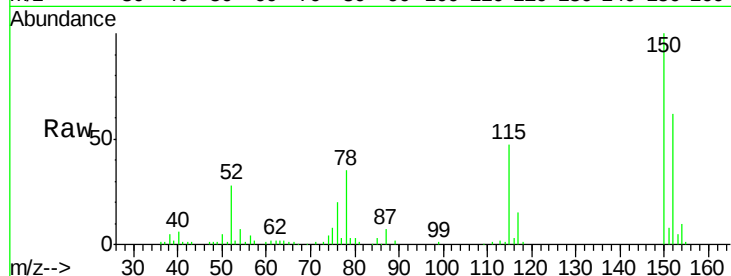
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.66 min Scan# 444  
Delta R.T. -0.05 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampled :  
C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.4 | 123.8 | 185.6 |
| 115     | 76.5  | 39.6  | 59.4  |

Manual Integrations

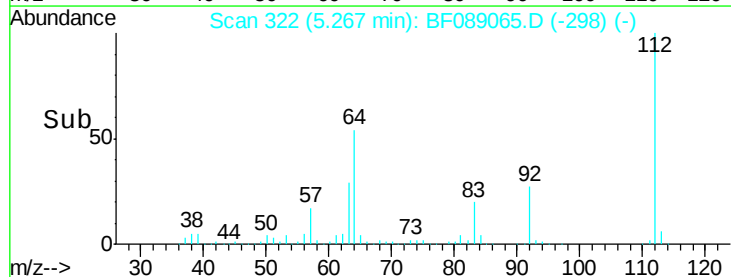
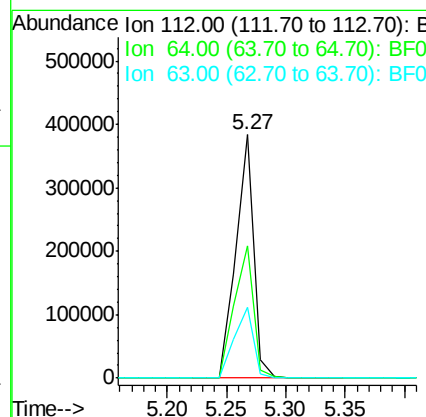
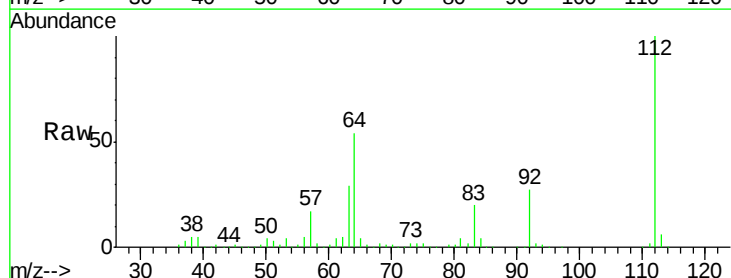
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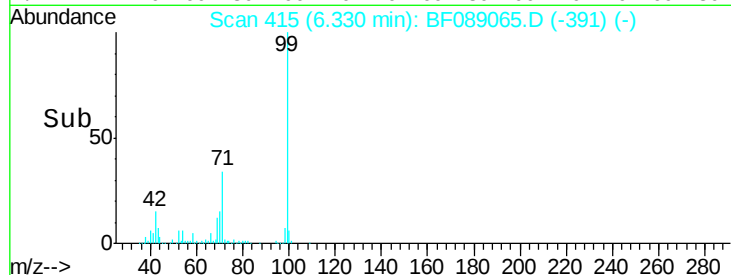
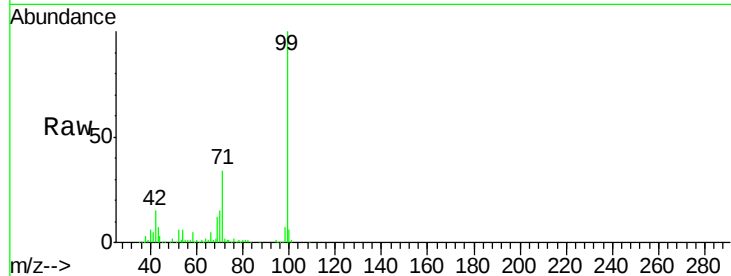
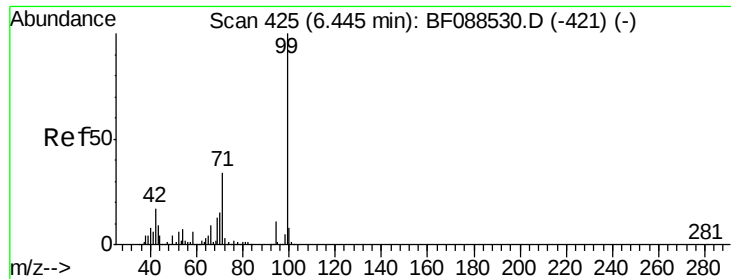


#5

2-Fluorophenol  
Concen: 117.58 ng  
RT: 5.27 min Scan# 322  
Delta R.T. -0.02 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.4  | 42.2  | 63.2  |
| 63      | 29.3  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 121.72 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 534794 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 14.5  | 12.2  | 18.2   |
| 71       | 34.4  | 23.4  | 35.0   |

Instrument :

BNA\_F

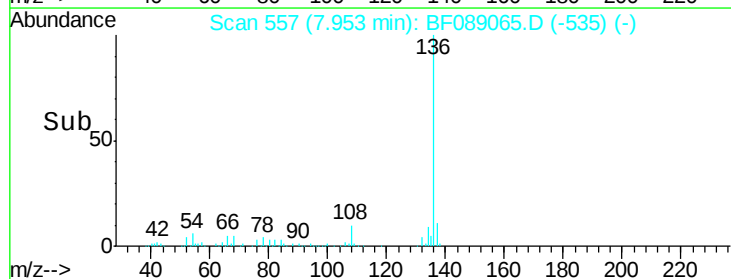
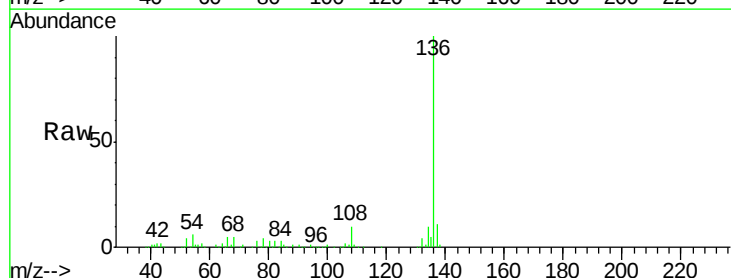
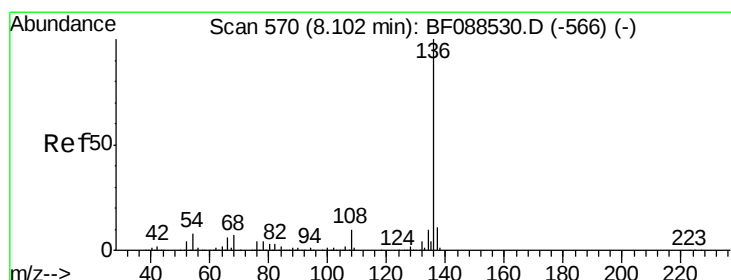
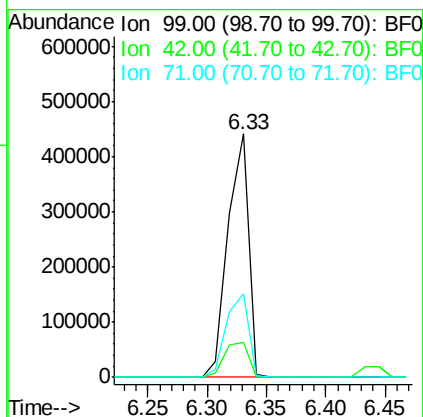
ClientSampled :

C5-14

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

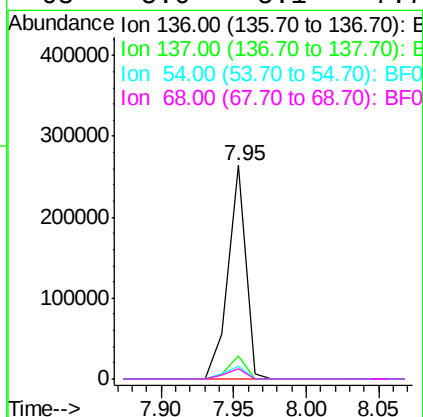
RT: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 223756 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.1   | 13.7   |
| 54       | 6.1   | 6.6   | 10.0#  |
| 68       | 5.0   | 5.1   | 7.7#   |





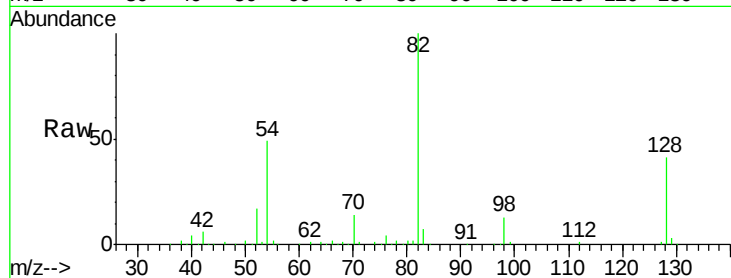
#23  
Nitrobenzene-d5  
Concen: 64.07 ng  
RT: 7.23 min Scan# 494  
Delta R.T. -0.05 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampled :  
C5-14

| Tot Ion   | 82   | Resp  | 273548 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 82        | 100  |       |        |
| 128       | 41.0 | 35.9  | 53.9   |
| 54        | 49.0 | 40.9  | 61.3   |

Manual Integrations

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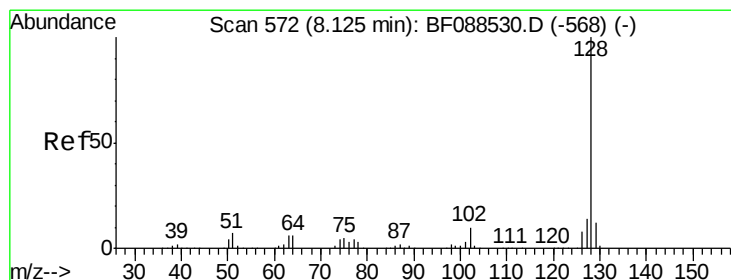
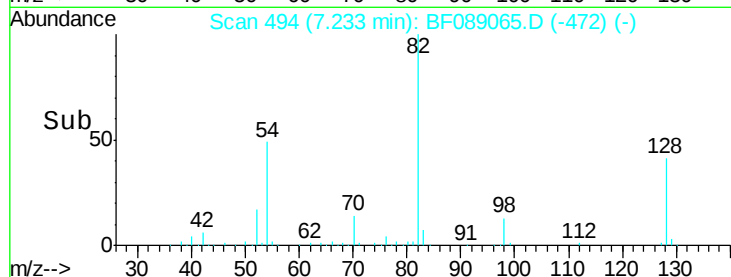
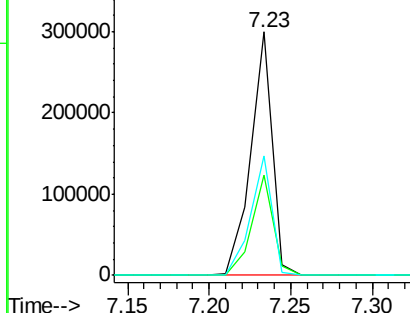


Abundance

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: 2.94 ng  
RT: 7.98 min Scan# 559  
Delta R.T. -0.05 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

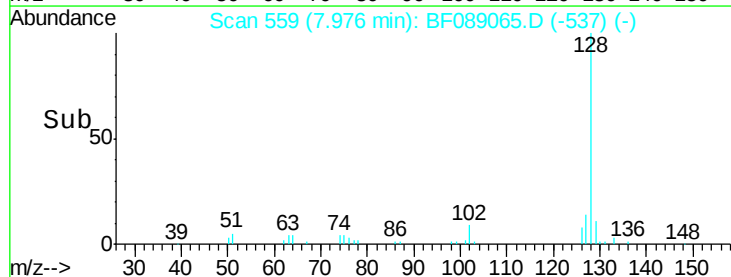
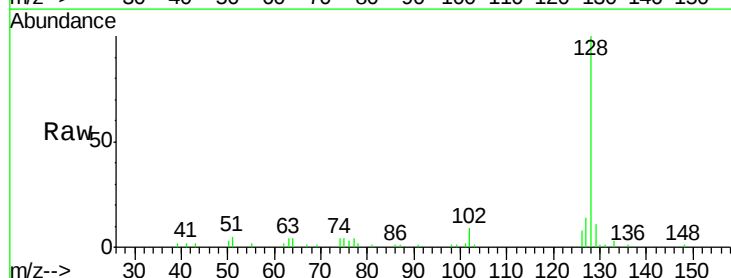
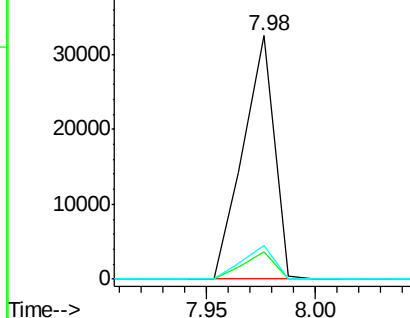
| Tgt Ion   | 128  | Resp  | 32419 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 100  |       |       |
| 129       | 11.2 | 9.4   | 14.2  |
| 127       | 13.6 | 10.9  | 16.3  |

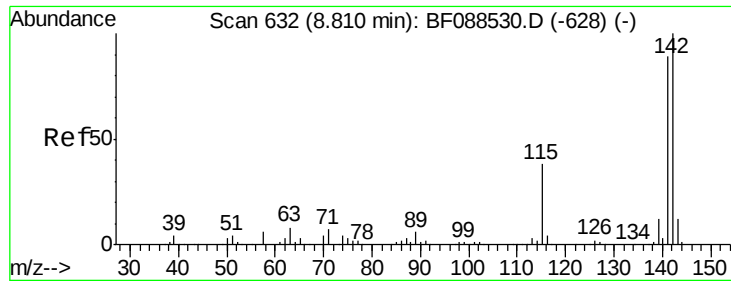
Abundance

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





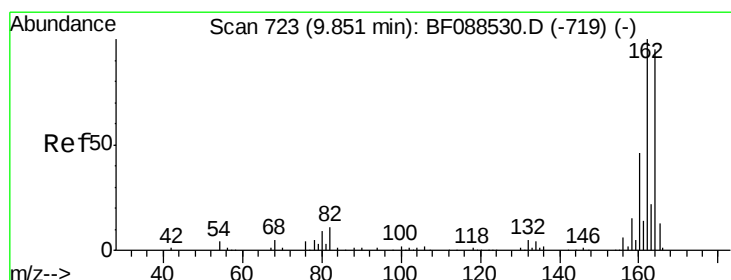
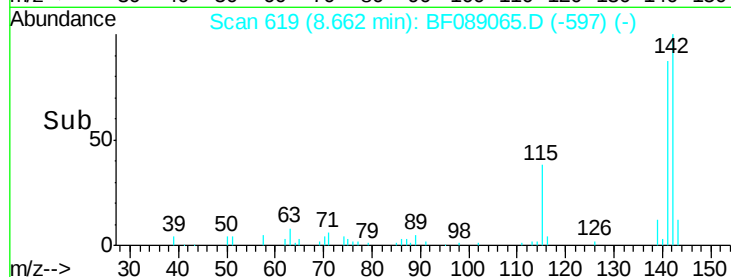
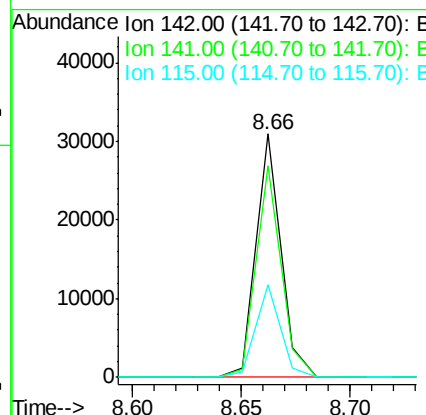
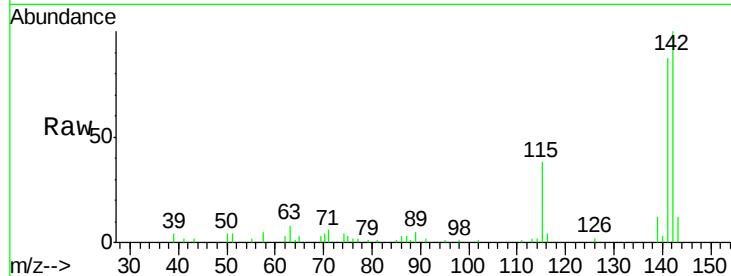
#37  
 2-Methylnaphthalene  
 Concen: 3.46 ng  
 RT: 8.66 min Scan# 619  
 Delta R.T. -0.05 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.8  | 71.0  | 106.6 |
| 115     | 37.8  | 22.6  | 33.8  |

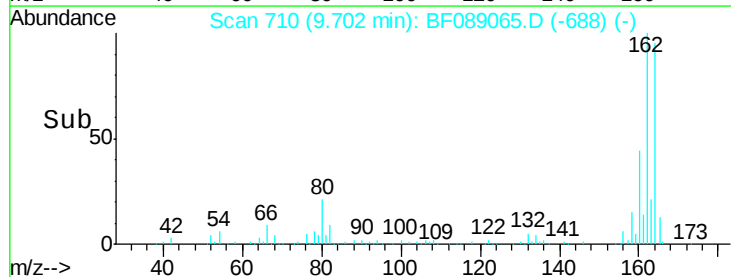
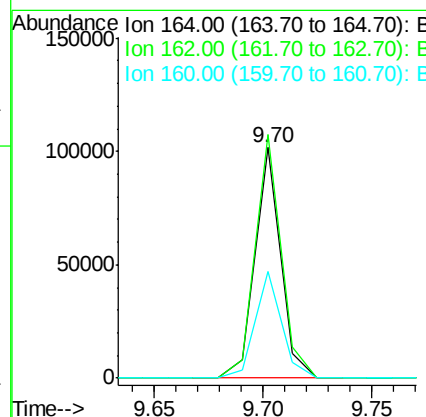
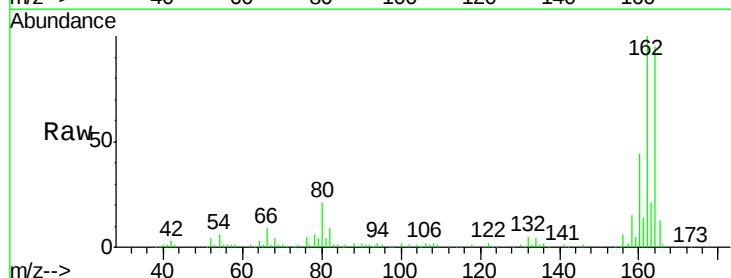
Manual Integrations

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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.70 min Scan# 710  
 Delta R.T. -0.05 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.5 | 85.4  | 128.2 |
| 160     | 46.4  | 39.5  | 59.3  |





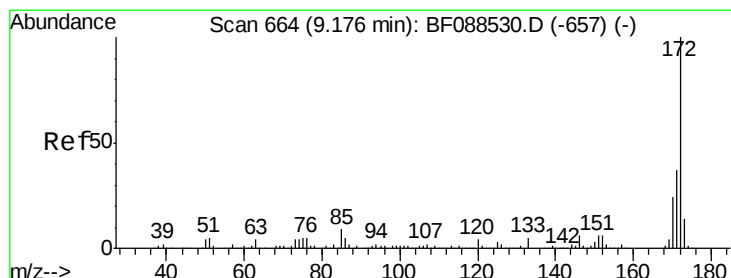
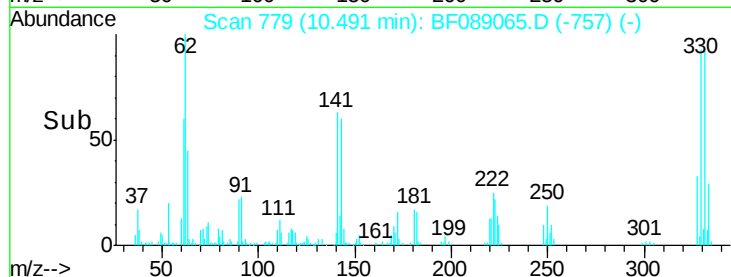
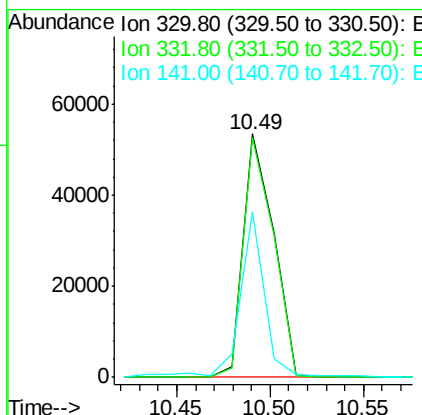
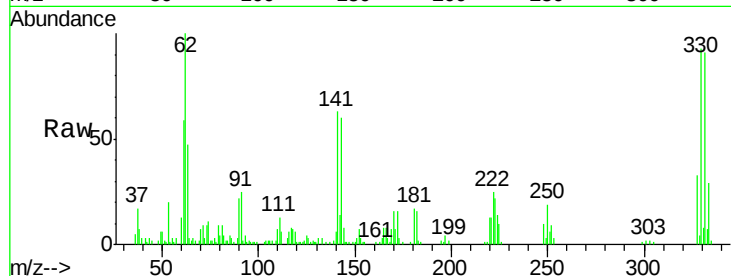
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 2,4,6-Tribromophenol  
 Concen: 78.07 ng  
 RT: 10.49 min Scan# 779  
 Delta R.T. -0.05 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampled :  
 C5-14

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 60088 |       |       |
| 332     | 98.0  | 0.0   | 0.0   | 0.0   |
| 141     | 56.7  | 0.0   | 0.0   | 0.0   |

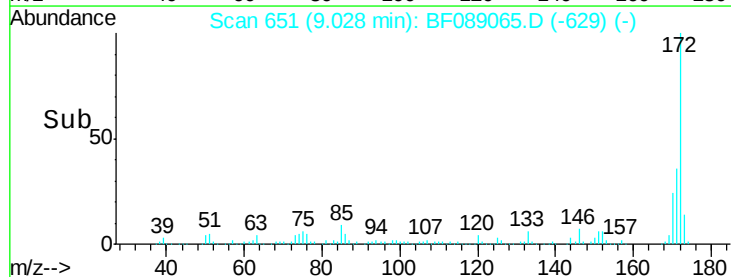
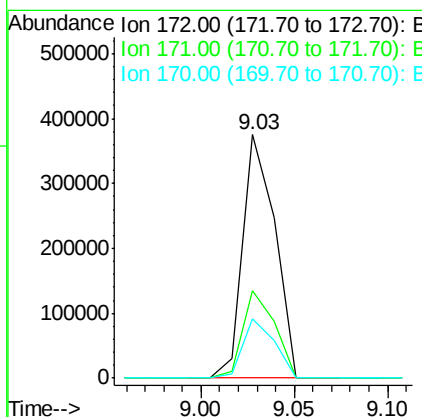
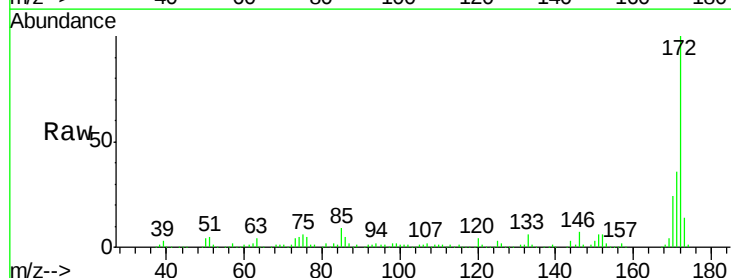
Manual Integrations

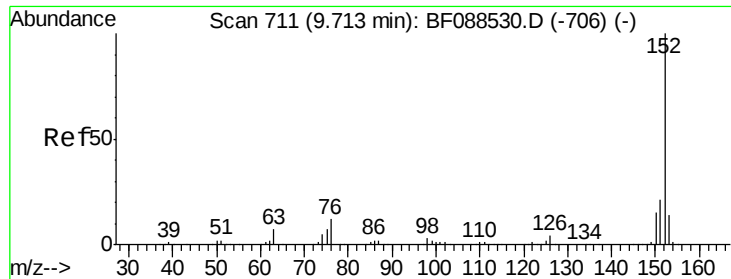
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#44  
 2-Fluorobiphenyl  
 Concen: 85.31 ng  
 RT: 9.03 min Scan# 651  
 Delta R.T. -0.05 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 447643 |       |       |
| 171     | 36.0  | 28.6   | 43.0  |       |
| 170     | 24.2  | 19.2   | 28.8  |       |





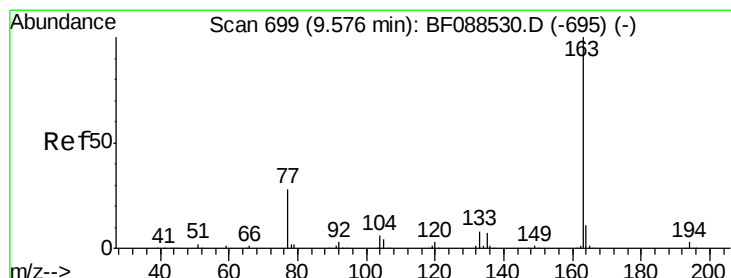
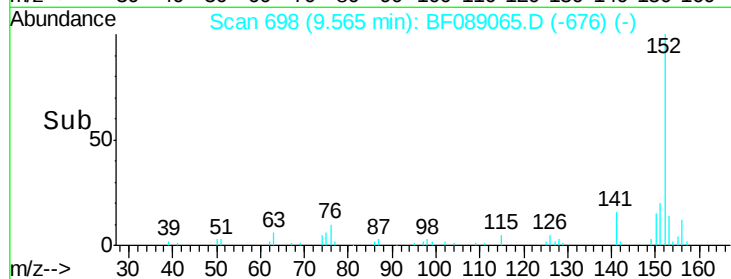
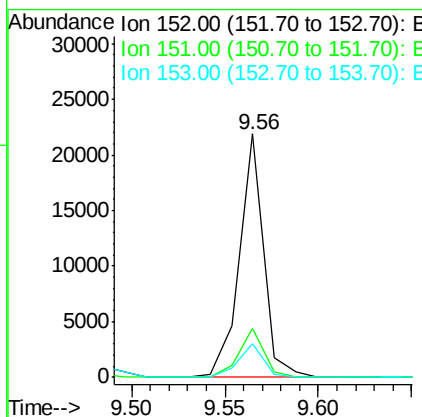
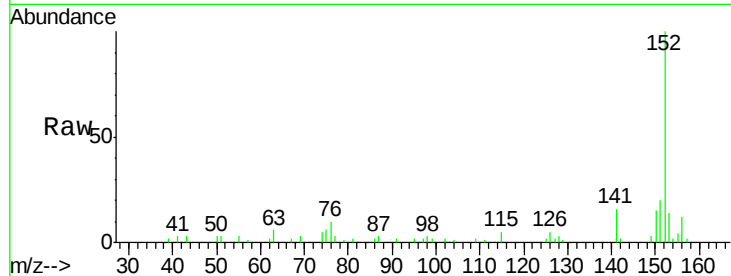
#48  
Acenaphthylene  
Concen: 2.33 ng  
RT: 9.56 min Scan# 698  
Delta R.T. -0.05 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampleId :  
C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.2  | 24.4  |
| 153     | 13.9  | 11.0  | 16.6  |

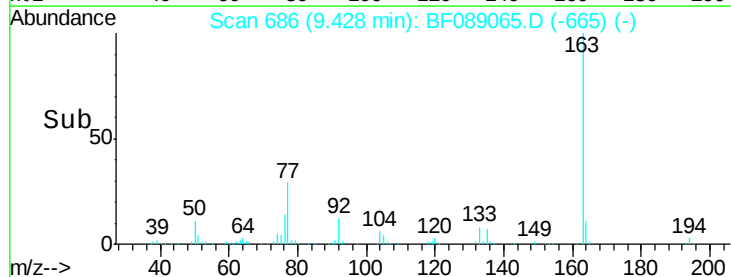
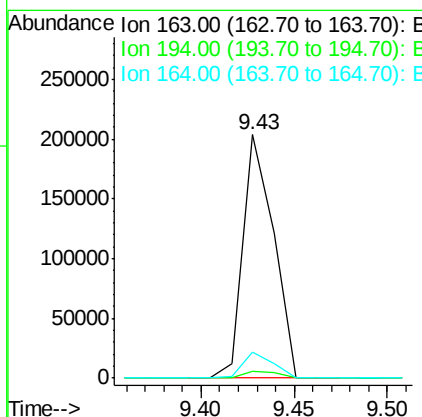
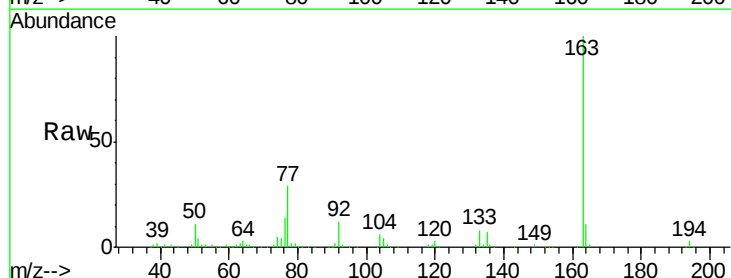
Manual Integrations

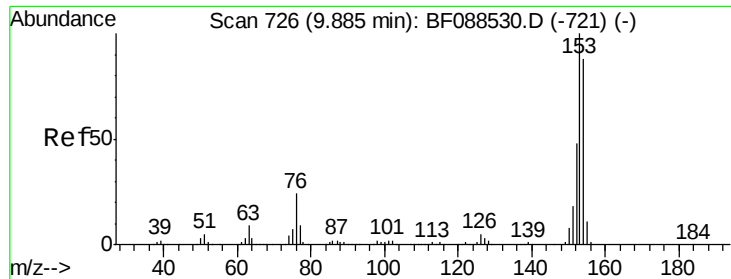
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#49  
Dimethylphthalate  
Concen: 39.15 ng  
RT: 9.43 min Scan# 686  
Delta R.T. -0.06 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.0   | 2.8   | 4.2   |
| 164     | 10.5  | 8.3   | 12.5  |





#51

Acenaphthene

Concen: 4.05 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.05 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

Instrument :

BNA\_F

ClientSampleId :

C5-14

Tot Ion:154 Resp: 21278

Ion Ratio Lower Upper

154 100

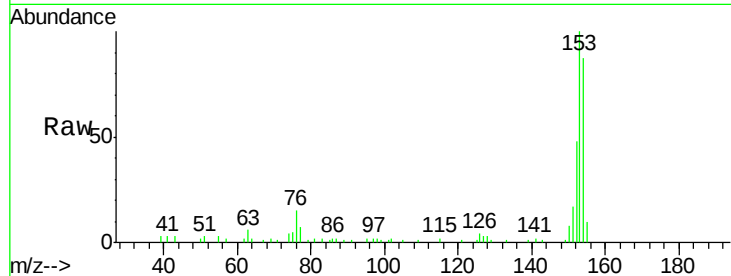
153 114.8 89.5 134.3

152 55.2 42.7 64.1

Manual Integrations

sohil

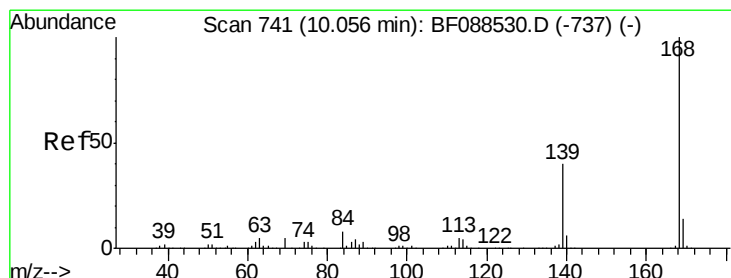
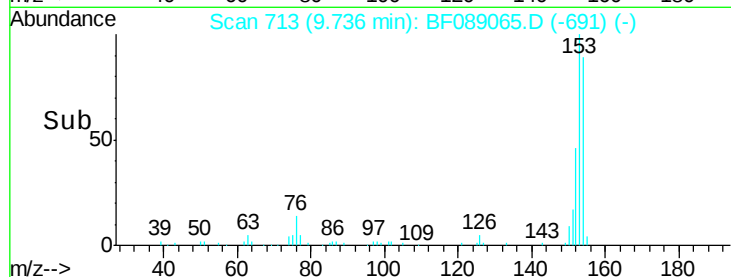
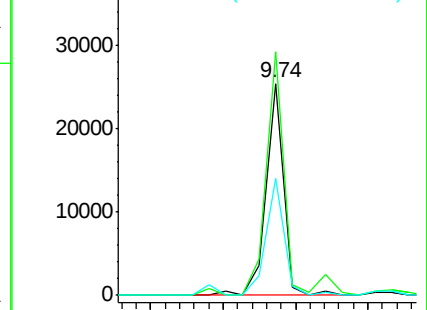
7/18/2016 7:38:28 PM



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: 2.68 ng

RT: 9.91 min Scan# 728

Delta R.T. -0.05 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

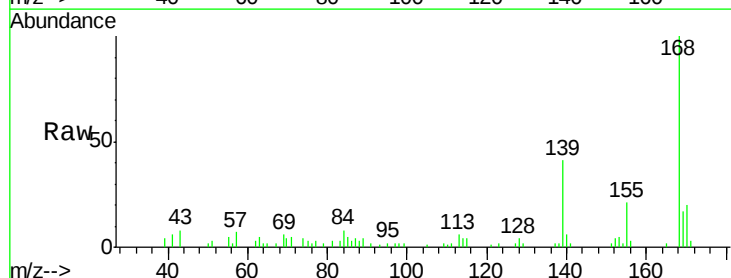
Tgt Ion:168 Resp: 18417

Ion Ratio Lower Upper

168 100

139 41.1 26.4 39.6#

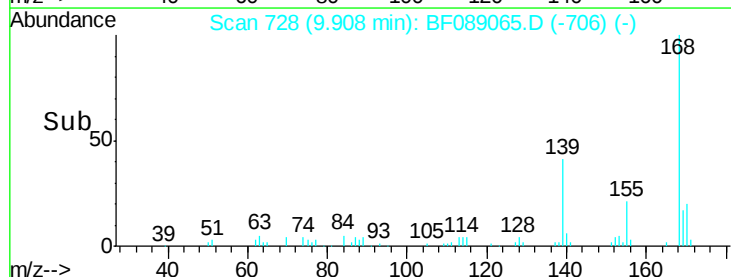
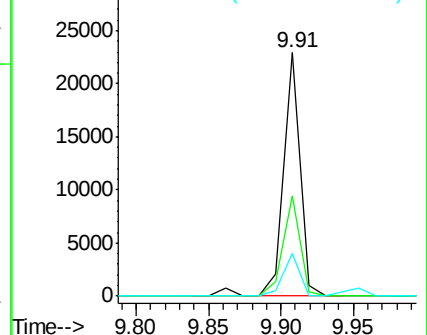
169 17.3 10.4 15.6#

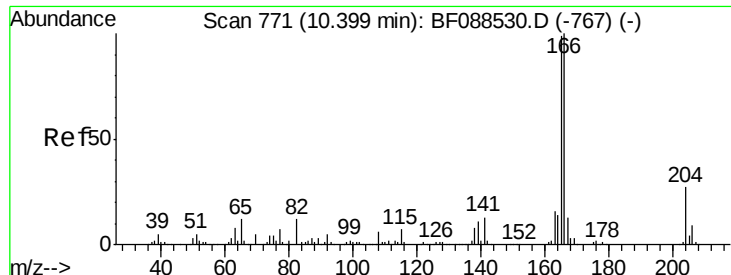


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





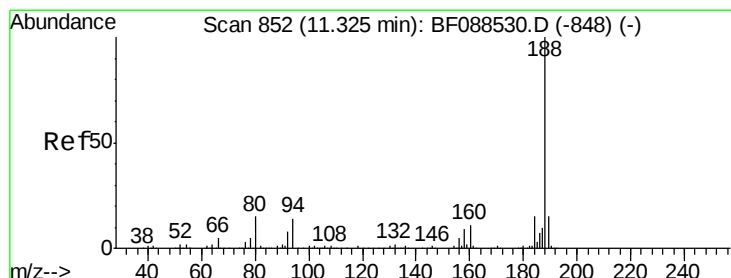
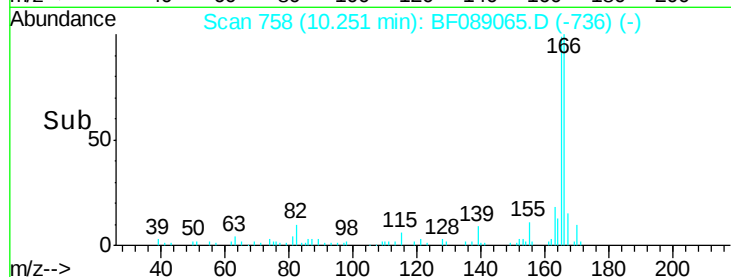
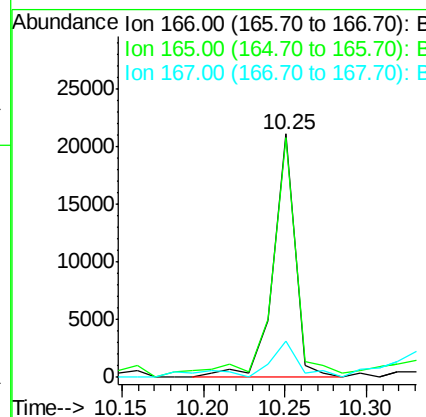
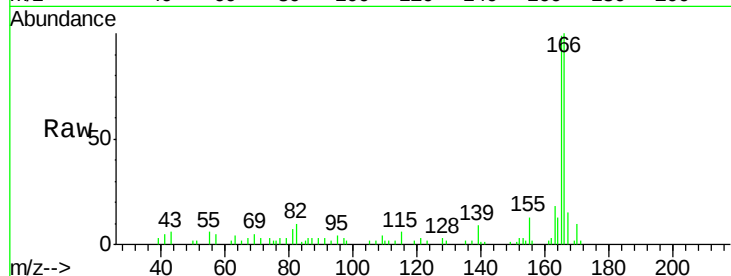
#57  
**Fluorene**  
 Concen: 3.72 ng  
 RT: 10.25 min Scan# 758  
 Delta R.T. -0.05 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampled :  
 C5-14

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 166     | 100  |       |       |       |
| 165     | 98.7 | 77.8  | 116.8 |       |
| 167     | 14.8 | 11.2  | 16.8  |       |

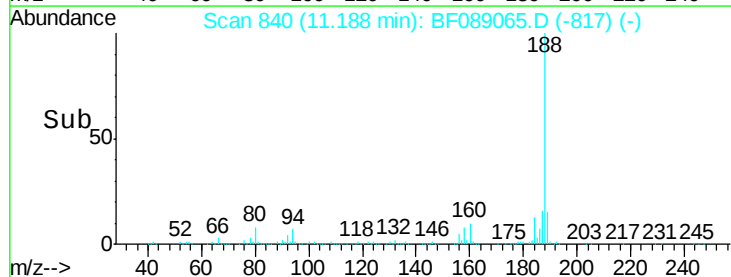
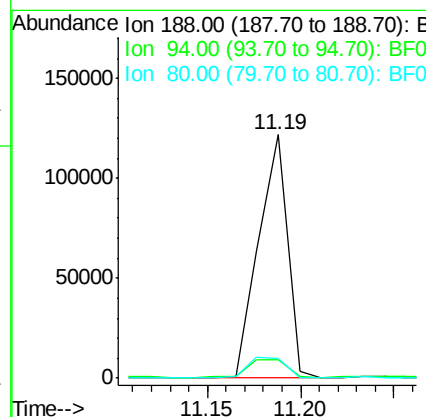
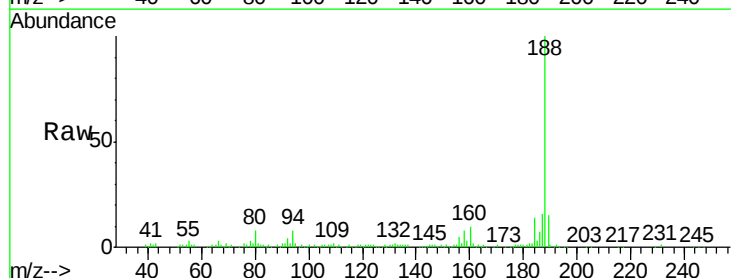
Manual Integrations

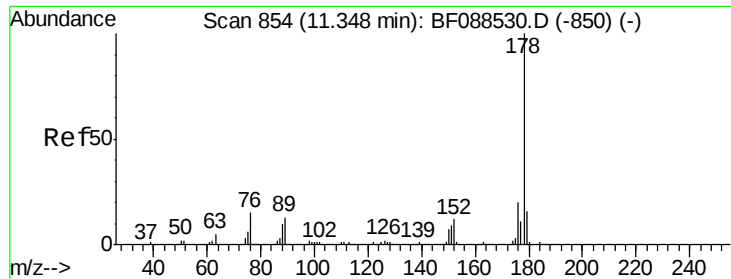
sohil  
 7/18/2016 7:38:28 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.19 min Scan# 840  
 Delta R.T. -0.03 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 188     | 100 |       |       |       |
| 94      | 7.6 | 9.0   | 13.6# |       |
| 80      | 8.0 | 10.0  | 15.0# |       |





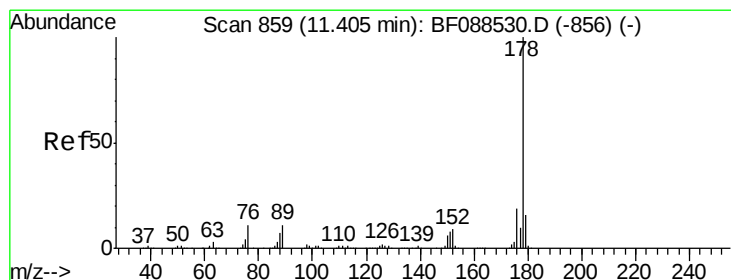
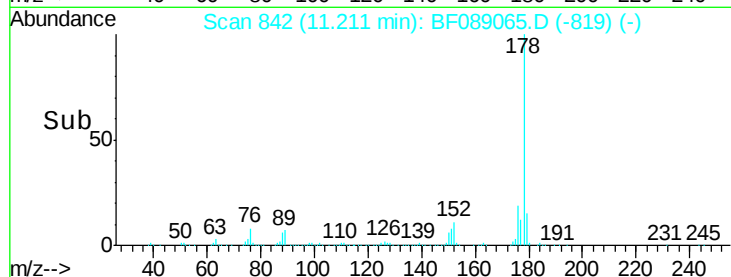
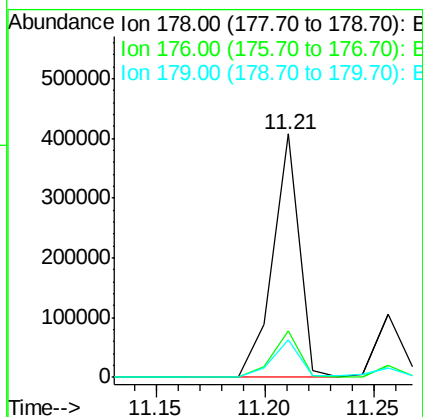
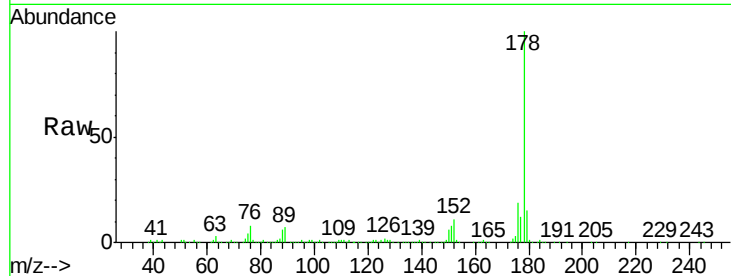
#70  
Phenanthrene  
Concen: 49.17 ng  
RT: 11.21 min Scan# 842  
Delta R.T. -0.03 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampled :  
C5-14

Tot Ion:178 Resp: 349911  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.8 23.6  
179 15.2 13.0 19.4

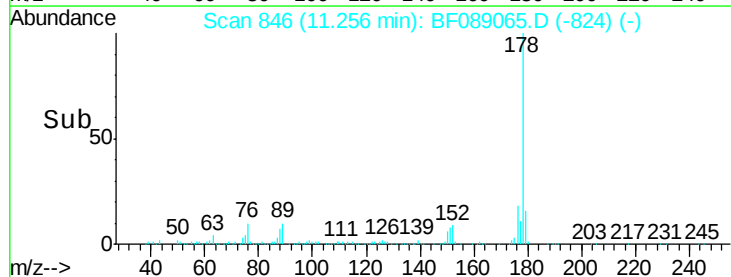
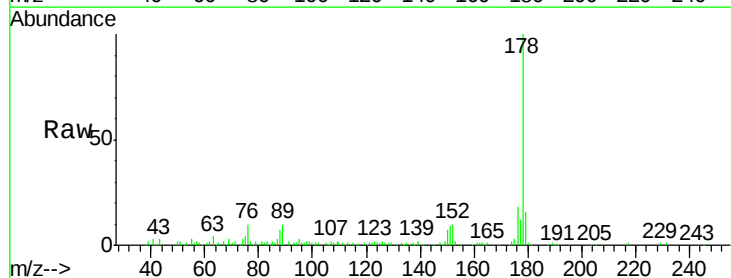
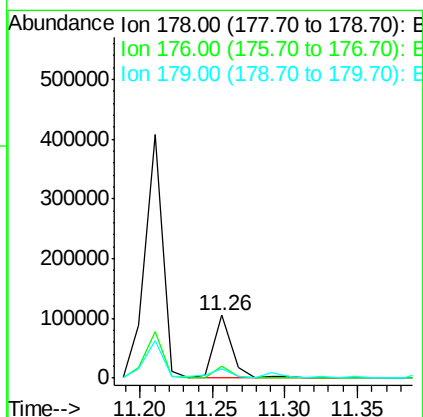
Manual Integrations

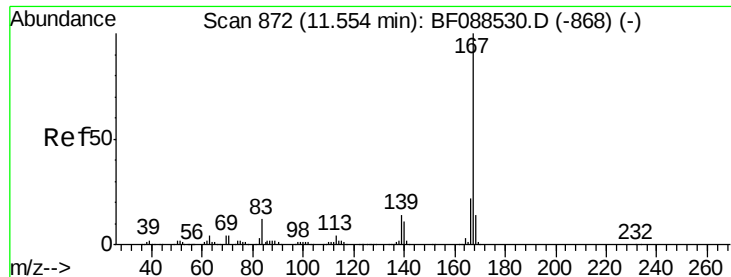
sohil  
7/18/2016 7:38:28 PM



#71  
Anthracene  
Concen: 12.76 ng  
RT: 11.26 min Scan# 846  
Delta R.T. -0.05 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Tgt Ion:178 Resp: 90319  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.6 23.4  
179 15.9 12.8 19.2





#72

Carbazole

Concen: 8.54 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.03 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

Instrument :

BNA\_F

ClientSampleId :

C5-14

Tot Ion:167 Resp: 56878

Ion Ratio Lower Upper

167 100

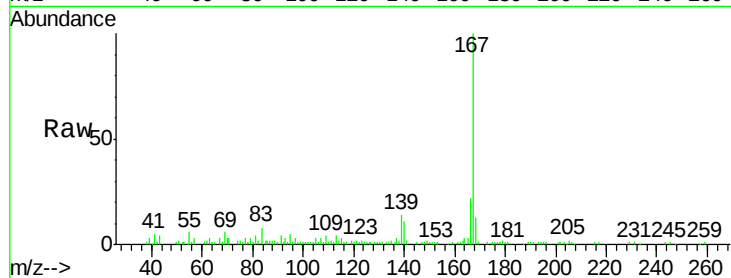
166 22.1 17.8 26.6

139 13.9 11.2 16.8

Manual Integrations

sohil

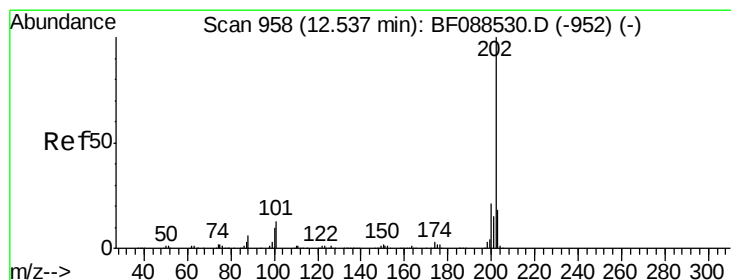
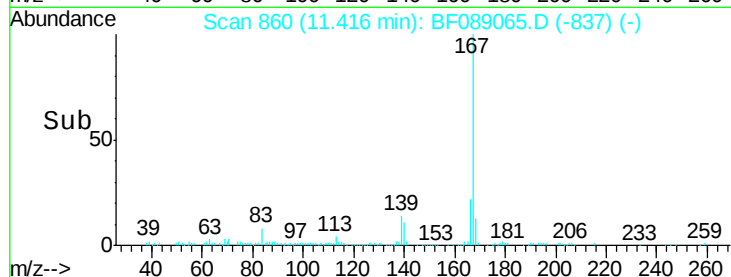
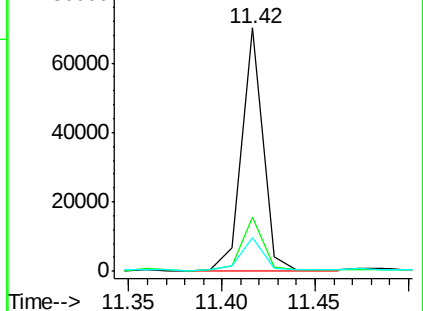
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 115.19 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

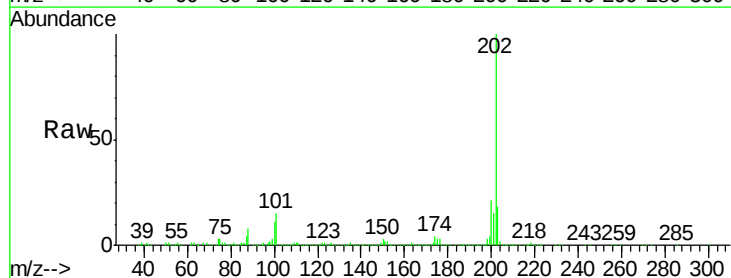
Tgt Ion:202 Resp: 831067

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.1

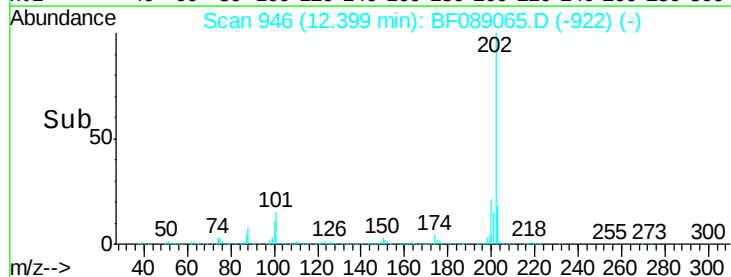
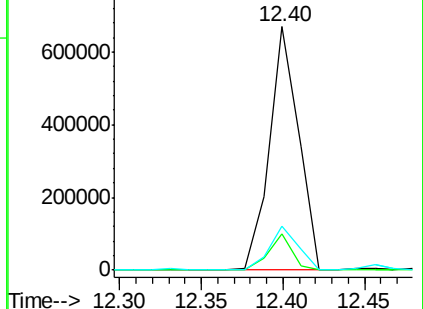
203 18.0 0.0 38.1

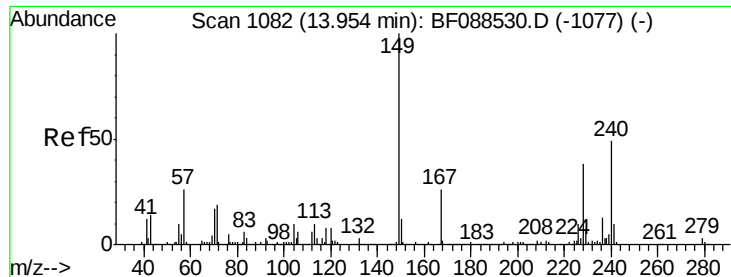


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





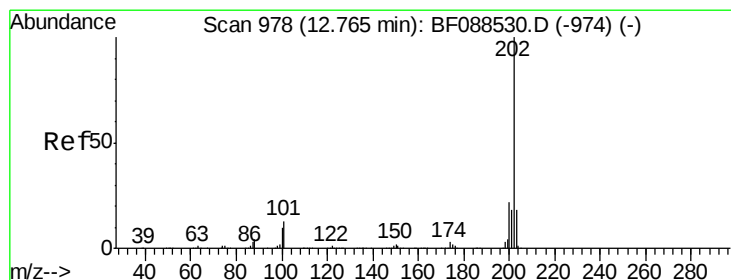
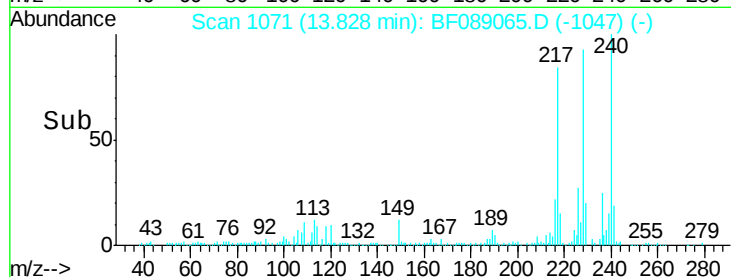
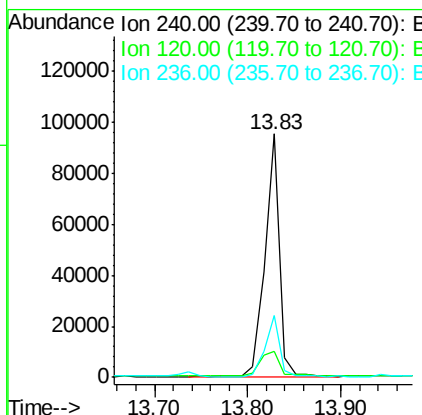
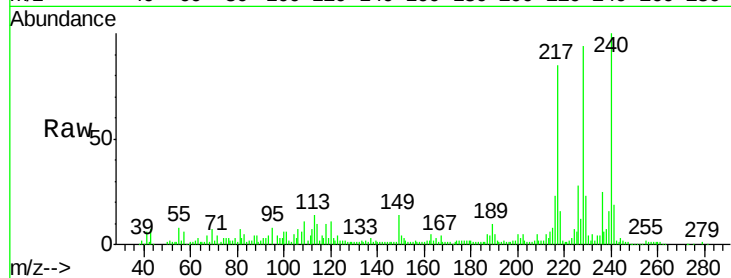
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.83 min Scan# 1071  
 Delta R.T. -0.02 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C5-14

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 106168 |       |       |
| 120     | 10.6 | 6.8   | 10.2#  |       |       |
| 236     | 25.4 | 20.2  | 30.2   |       |       |

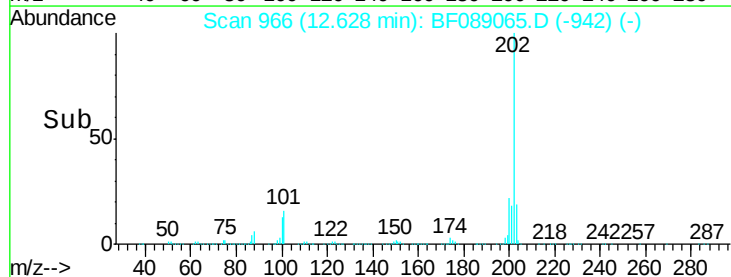
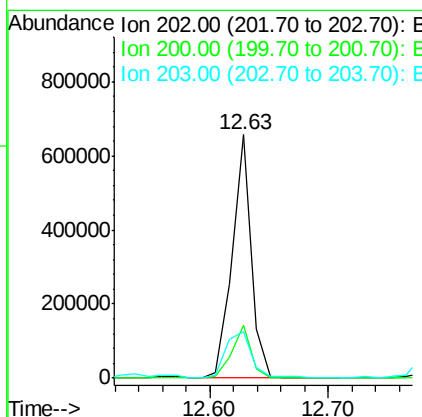
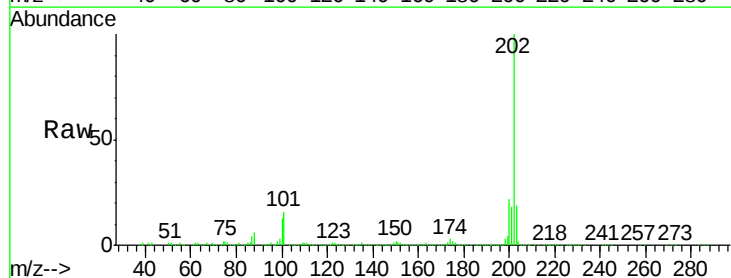
Manual Integrations

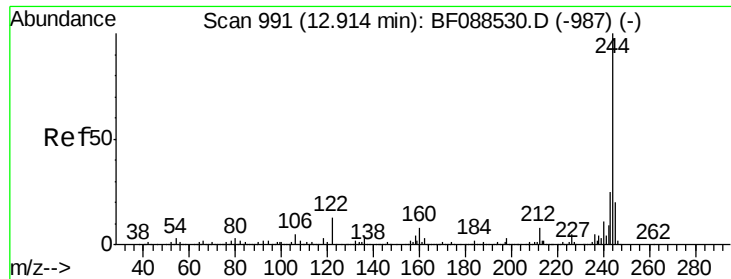
sohil  
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#77  
 Pyrene  
 Concen: 80.71 ng  
 RT: 12.63 min Scan# 966  
 Delta R.T. -0.02 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 726526 |       |       |
| 200     | 21.7 | 17.4  | 26.2   |       |       |
| 203     | 18.9 | 14.5  | 21.7   |       |       |





#78

Terphenyl-d14

Concen: 67.25 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

Instrument :

BNA\_F

ClientSampleId :

C5-14

Tot Ion:244 Resp: 320548

Ion Ratio Lower Upper

244 100

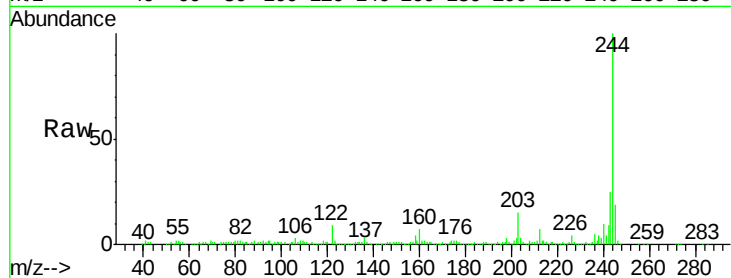
212 7.4 6.0 9.0

122 9.3 11.2 16.8#

Manual Integrations

sohil

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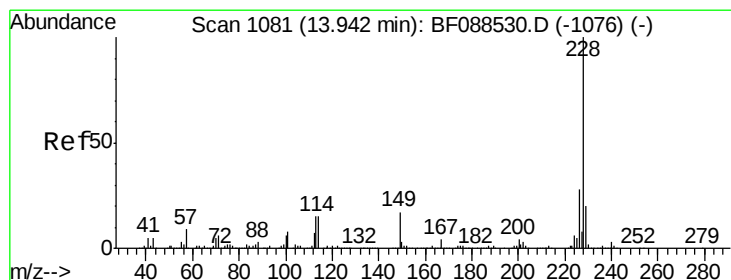
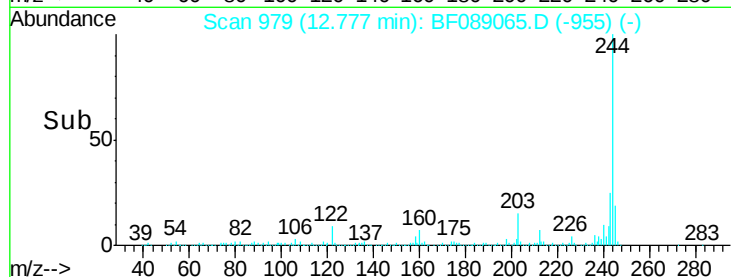
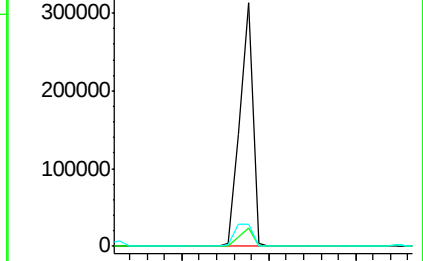


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.78



#80

Benzo(a)anthracene

Concen: 70.10 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089065.D

Acq: 16 Jul 2016 20:13

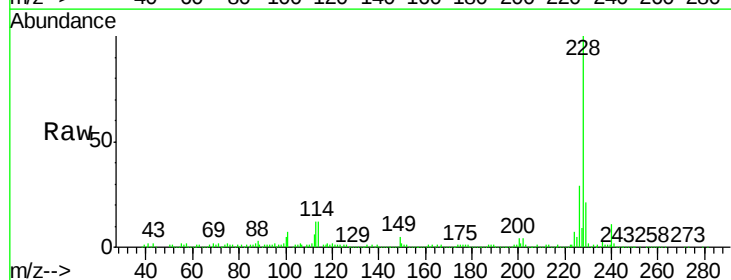
Tgt Ion:228 Resp: 479196

Ion Ratio Lower Upper

228 100

226 28.7 22.3 33.5

229 20.9 16.0 24.0

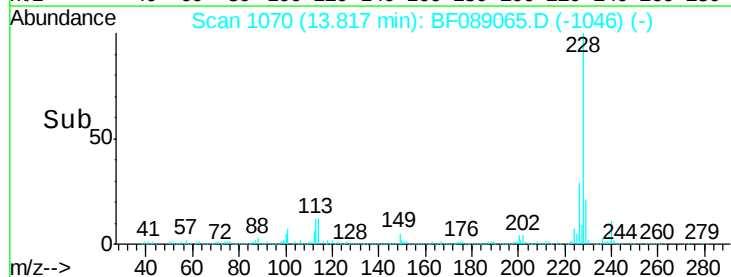
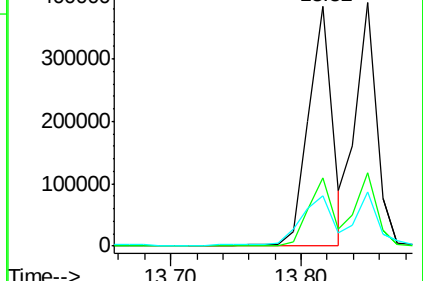


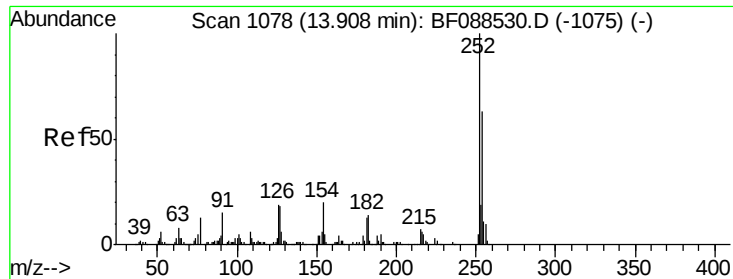
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

13.82





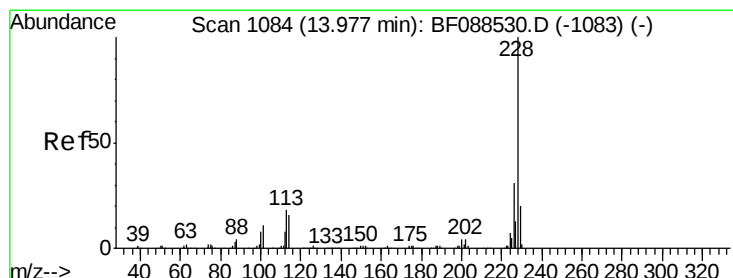
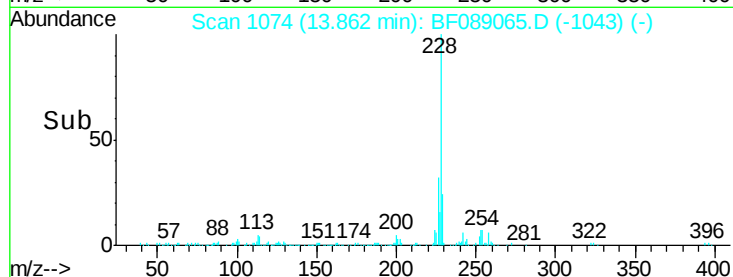
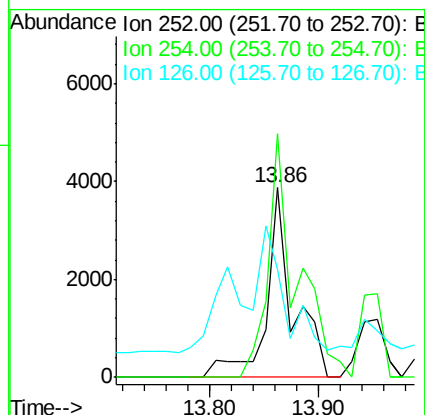
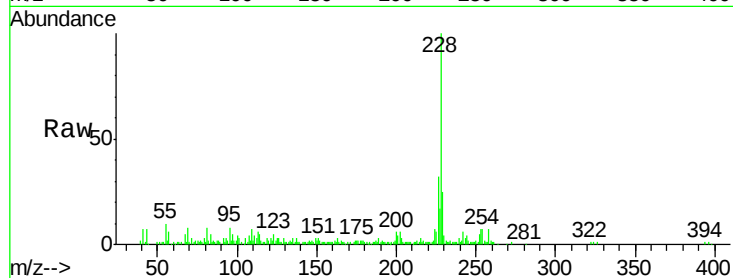
#81  
 3,3'-Dichlorobenzidine  
 Concen: 2.58 ng  
 RT: 13.86 min Scan# 1074  
 Delta R.T. 0.06 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 128.5 | 52.6  | 78.8# |
| 126     | 57.1  | 6.2   | 9.2#  |

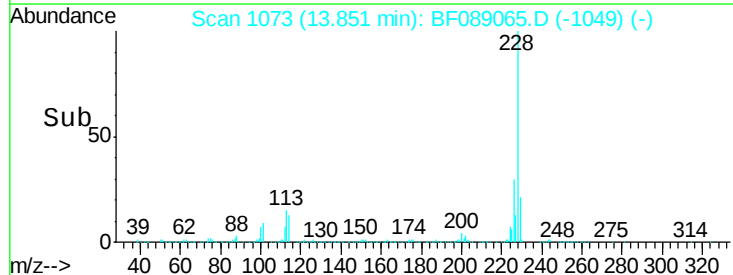
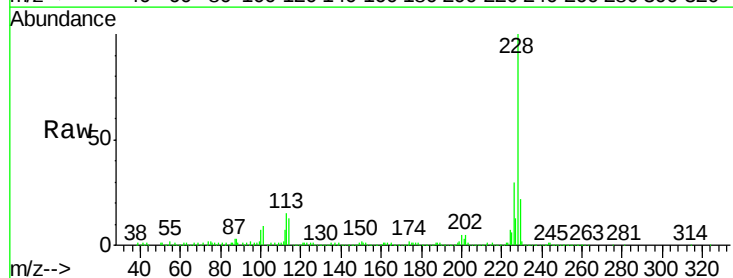
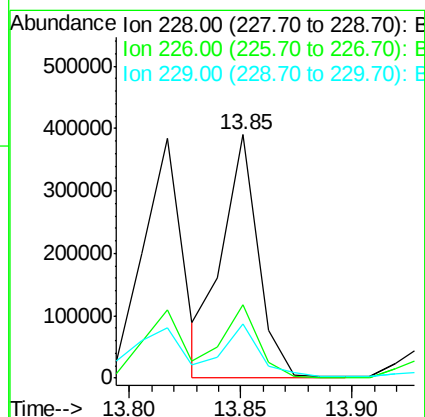
Manual Integrations

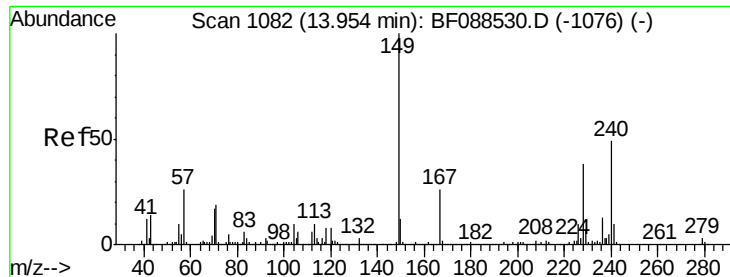
sohil  
 7/18/2016 7:38:28 PM



#82  
 Chrysene  
 Concen: 64.63 ng m  
 RT: 13.85 min Scan# 1073  
 Delta R.T. -0.02 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 25.4  | 38.2  |
| 229     | 22.2  | 16.3  | 24.5  |





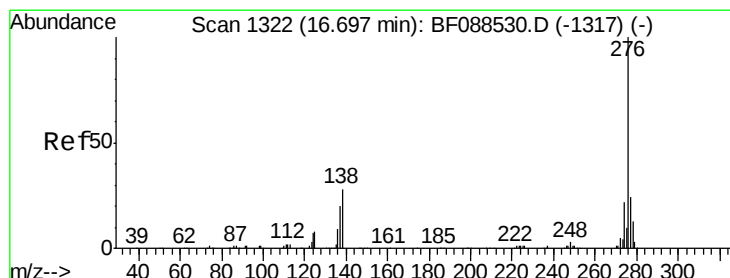
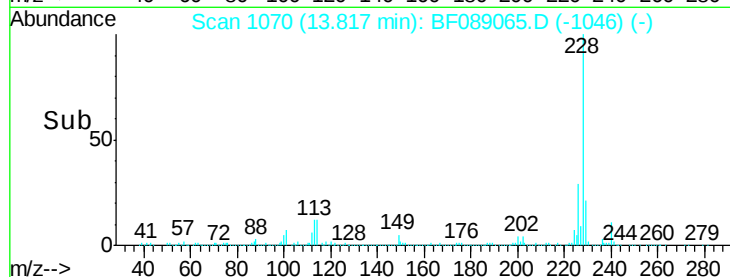
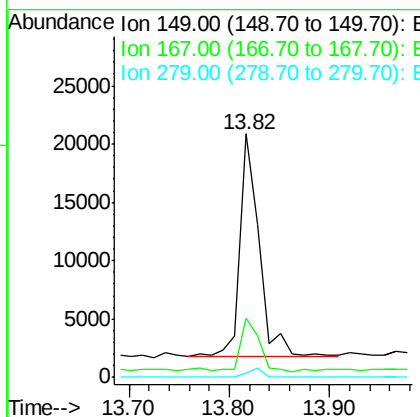
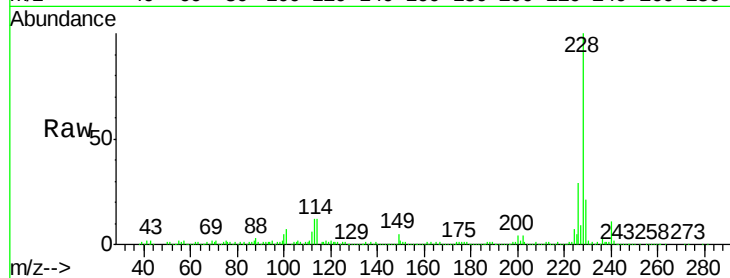
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.51 ng  
 RT: 13.82 min Scan# 1070  
 Delta R.T. -0.02 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

Instrument :  
 BNA\_F  
 ClientSampled :  
 C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 24.3  | 20.5  | 30.7  |
| 279     | 2.0   | 2.0   | 3.0   |

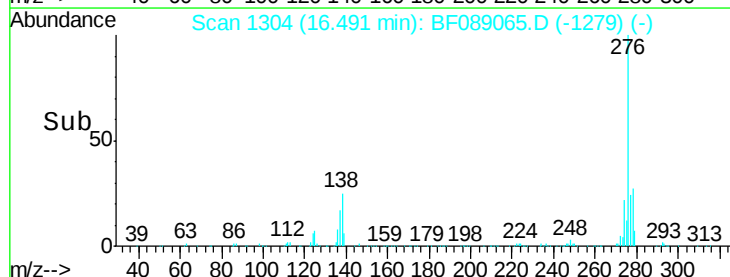
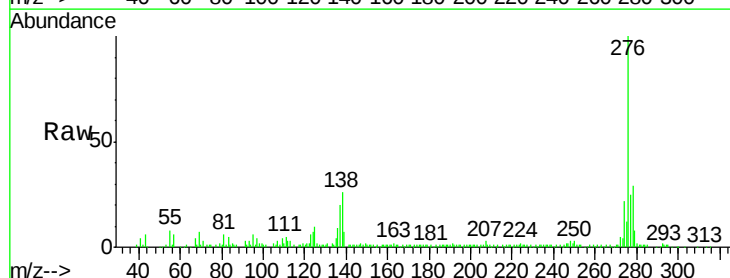
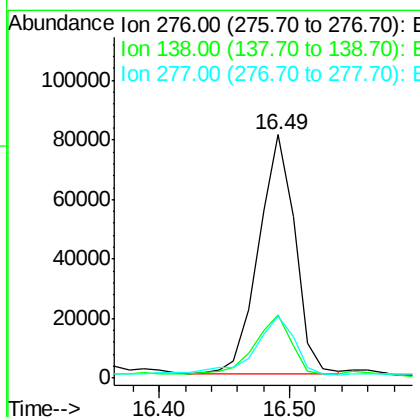
Manual Integrations

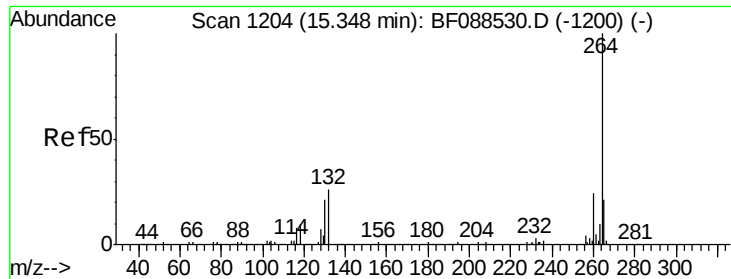
sohil  
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#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 30.01 ng  
 RT: 16.49 min Scan# 1304  
 Delta R.T. -0.01 min  
 Lab File: BF089065.D  
 Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.0  | 0.0   | 0.0   |
| 277     | 27.8  | 0.0   | 0.0   |





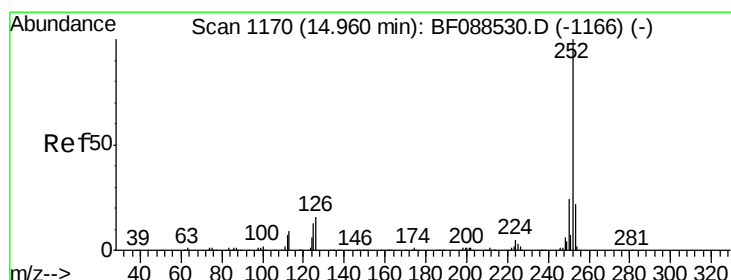
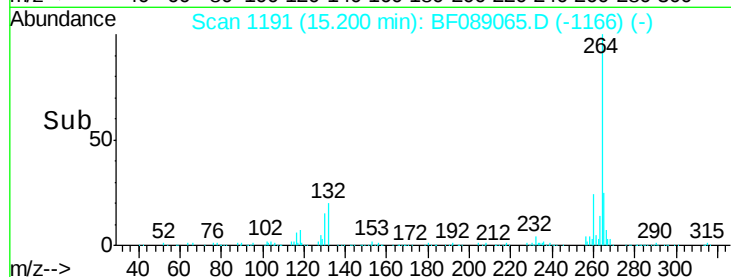
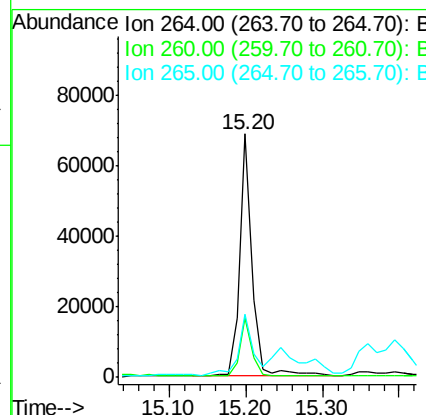
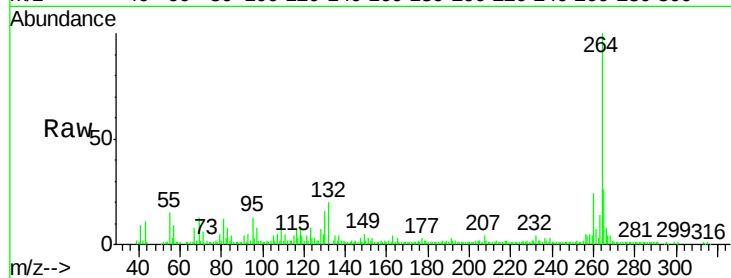
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.20 min Scan# 1191  
Delta R.T. -0.01 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampleId :  
C5-14

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 264     | 100  |       |       |       |
| 260     | 24.4 | 19.2  | 28.8  |       |
| 265     | 25.7 | 16.9  | 25.3  |       |

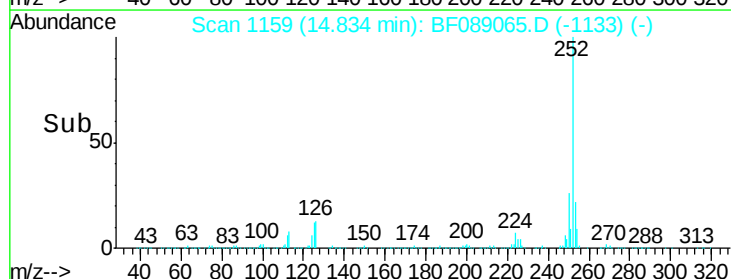
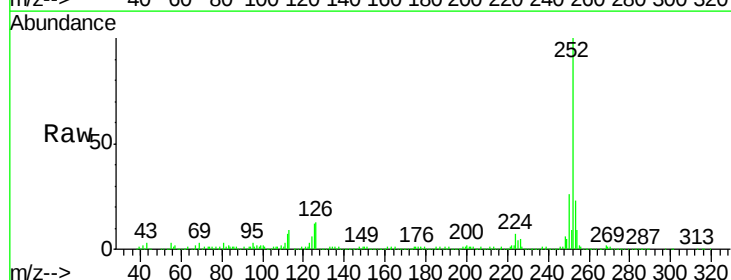
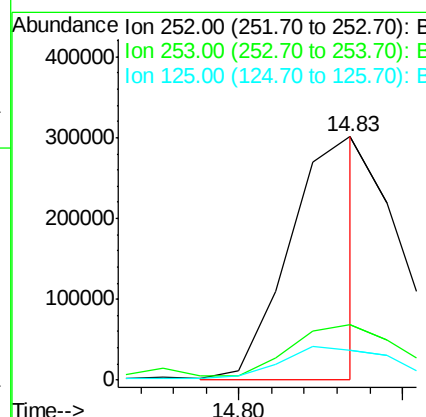
Manual Integrations

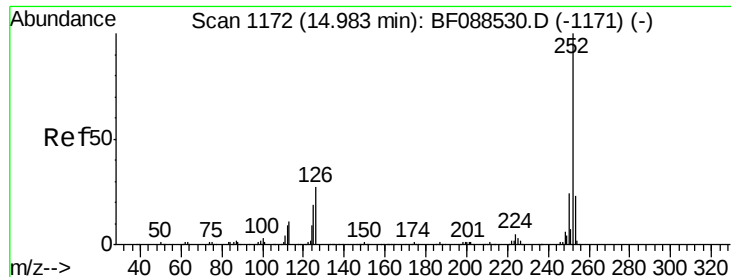
sohil  
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#87  
Benzo(b)fluoranthene  
Concen: 94.56 ng m  
RT: 14.83 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 252     | 100  |       |       |       |
| 253     | 22.8 | 17.4  | 26.2  |       |
| 125     | 12.5 | 7.1   | 10.7  |       |





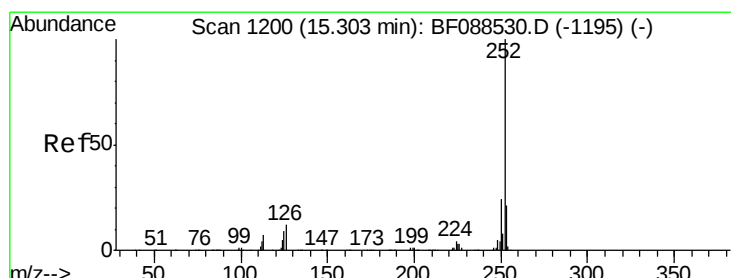
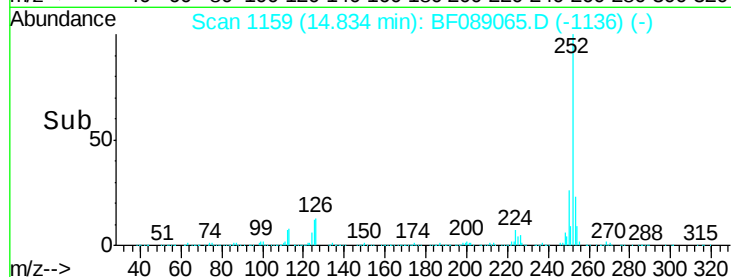
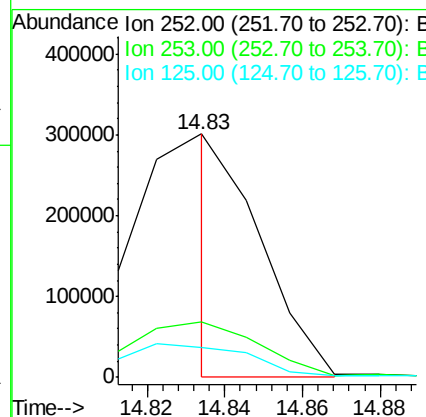
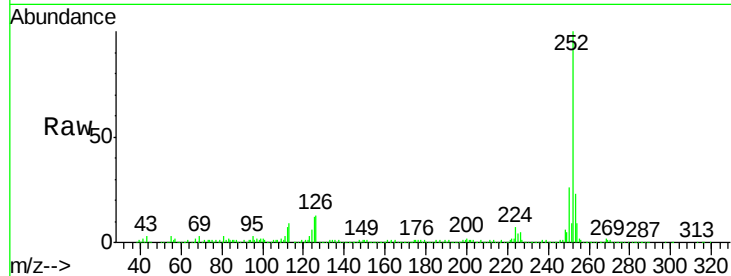
#88  
Benzo(k)fluoranthene  
Concen: 47.43 ng m  
RT: 14.83 min Scan# 1159  
Delta R.T. -0.03 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampleId :  
C5-14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 207891 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 18.0  | 27.0   |
| 125       | 12.5  | 11.2  | 16.8   |

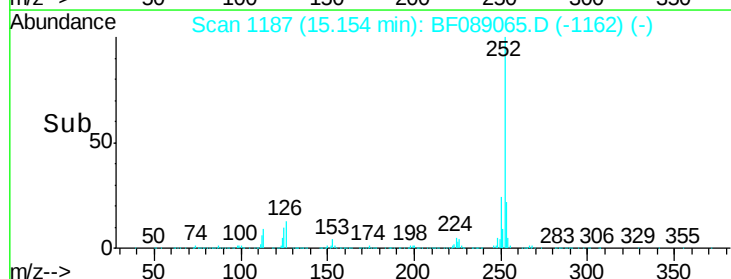
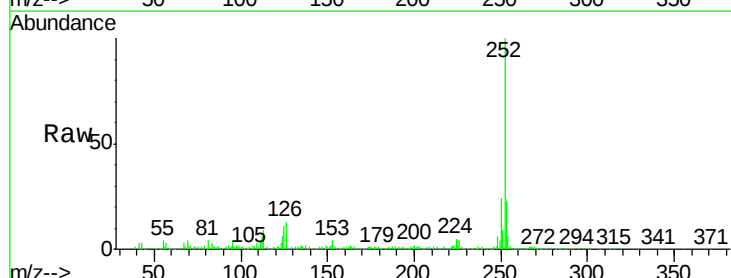
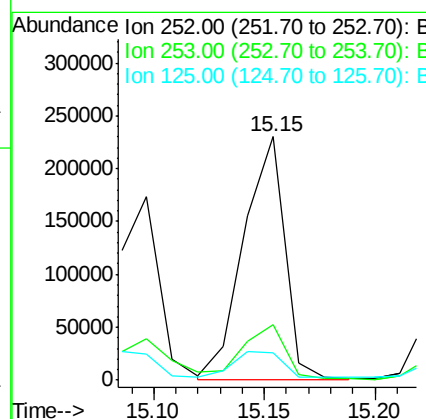
Manual Integrations

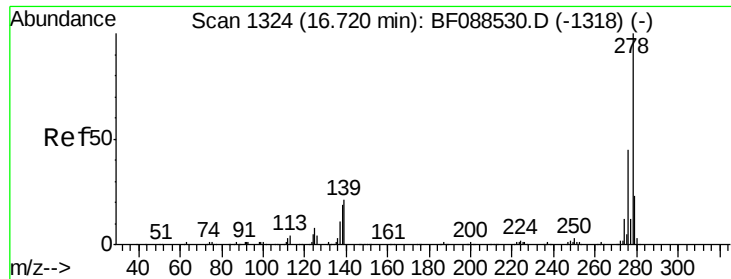
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#89  
Benzo(a)pyrene  
Concen: 70.50 ng m  
RT: 15.15 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 300566 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.9  | 26.9   |
| 125       | 11.4  | 12.5  | 18.7#  |





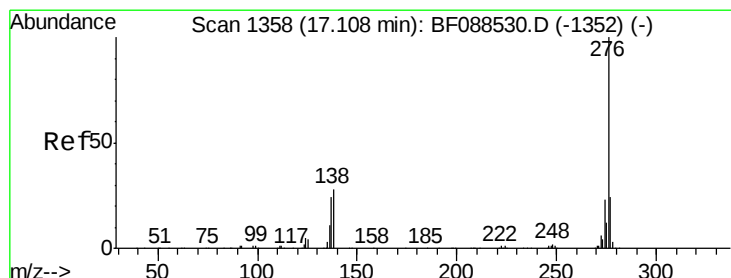
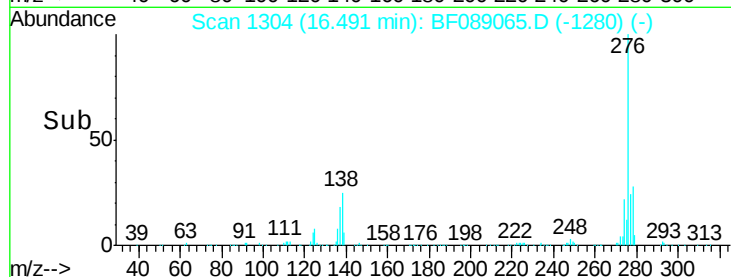
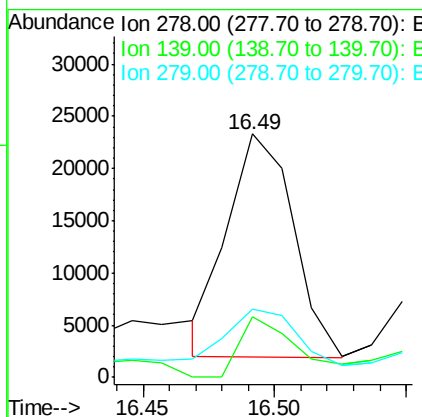
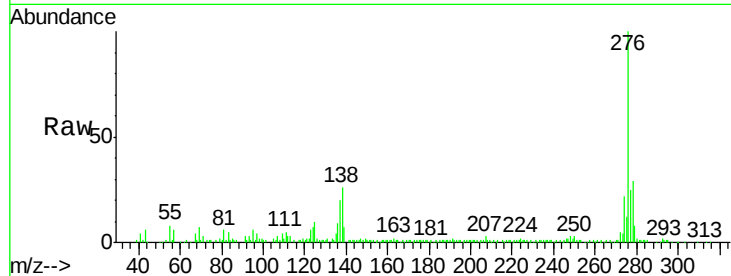
#90  
Dibenzo(a,h)anthracene  
Concen: 10.56 ng m  
RT: 16.49 min Scan# 1304  
Delta R.T. -0.02 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

Instrument :  
BNA\_F  
ClientSampleId :  
C5-14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.6  | 15.7  | 23.5  |
| 279     | 28.2  | 19.4  | 29.2  |

Manual Integrations

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#91  
Benzo(g,h,i)perylene  
Concen: 37.58 ng  
RT: 16.88 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF089065.D  
Acq: 16 Jul 2016 20:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 18.9  | 28.3  |
| 138     | 26.2  | 21.4  | 32.2  |

