

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\  
 Data File : BF082340.D  
 Acq On : 16 Oct 2015 22:07  
 Operator : UM/IZ  
 Sample : G4046-05 20X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MANAHAWKENINSULATION

Manual Integrations  
 APPROVED

MMdadoda  
 10/19/2015 5:32:32 PM

Quant Time: Oct 19 14:52:01 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 17 01:08:23 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 50949m   | 20.00 | ng    | 0.09     |
| 21) Naphthalene-d8        | 8.21  | 136  | 243756   | 20.00 | ng    | 0.08     |
| 38) Acenaphthene-d10      | 9.95  | 164  | 129905   | 20.00 | ng    | 0.07     |
| 63) Phenanthrene-d10      | 11.45 | 188  | 251052   | 20.00 | ng    | 0.08     |
| 75) Chrysene-d12          | 14.14 | 240  | 193227   | 20.00 | ng    | 0.07     |
| 86) Perylene-d12          | 15.67 | 264  | 228738   | 20.00 | ng    | 0.08     |

## System Monitoring Compounds

|                          |       |     |       |      |    |      |
|--------------------------|-------|-----|-------|------|----|------|
| 5) 2-Fluorophenol        | 5.53  | 112 | 9602  | 3.80 | ng | 0.10 |
| 7) Phenol-d6             | 6.56  | 99  | 13795 | 4.20 | ng | 0.08 |
| 23) Nitrobenzene-d5      | 7.49  | 82  | 7172  | 1.98 | ng | 0.07 |
| 41) 2,4,6-Tribromophenol | 10.74 | 330 | 4726  | 3.88 | ng | 0.06 |
| 44) 2-Fluorobiphenyl     | 9.28  | 172 | 23785 | 3.04 | ng | 0.07 |
| 78) Terphenyl-d14        | 13.03 | 244 | 32499 | 4.46 | ng | 0.07 |

## Target Compounds

|                                |       |     |          |        |    | Qvalue |
|--------------------------------|-------|-----|----------|--------|----|--------|
| 31) Naphthalene                | 8.23  | 128 | 57366    | 5.43   | ng | 97     |
| 37) 2-Methylnaphthalene        | 8.91  | 142 | 17821    | 2.43   | ng | 98     |
| 51) Acenaphthene               | 9.99  | 154 | 162111   | 22.23  | ng | 99     |
| 54) Dibenzofuran               | 10.16 | 168 | 71985    | 7.19   | ng | 95     |
| 57) Fluorene                   | 10.50 | 166 | 153586   | 18.68  | ng | 100    |
| 70) Phenanthrene               | 11.49 | 178 | 2957899  | 240.37 | ng | 95     |
| 71) Anthracene                 | 11.52 | 178 | 682256   | 53.80  | ng | 98     |
| 72) Carbazole                  | 11.68 | 167 | 679669   | 58.76  | ng | 99     |
| 74) Fluoranthene               | 12.69 | 202 | 4336567  | 328.11 | ng | 93     |
| 77) Pyrene                     | 12.92 | 202 | 3560116m | 310.46 | ng |        |
| 80) Benzo(a)anthracene         | 14.13 | 228 | 2238388  | 222.64 | ng | 97     |
| 82) Chrysene                   | 14.17 | 228 | 2230234m | 210.53 | ng |        |
| 83) Bis(2-ethylhexyl)phthalate | 14.10 | 149 | 1040553  | 139.37 | ng | # 55   |
| 84) Di-n-octyl phthalate       | 14.77 | 149 | 1895846  | 147.86 | ng | # 100  |
| 85) Indeno(1,2,3-cd)pyrene     | 17.18 | 276 | 993282   | 117.97 | ng | 95     |
| 87) Benzo(b)fluoranthene       | 15.25 | 252 | 2538863m | 182.44 | ng |        |
| 88) Benzo(k)fluoranthene       | 15.26 | 252 | 1025754m | 87.69  | ng |        |
| 89) Benzo(a)pyrene             | 15.62 | 252 | 1630303  | 136.32 | ng | 97     |
| 90) Dibenzo(a,h)anthracene     | 17.18 | 278 | 242180   | 24.71  | ng | 95     |
| 91) Benzo(a,h,i)perylene       | 17.62 | 276 | 841659   | 88.40  | ng | 98     |

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

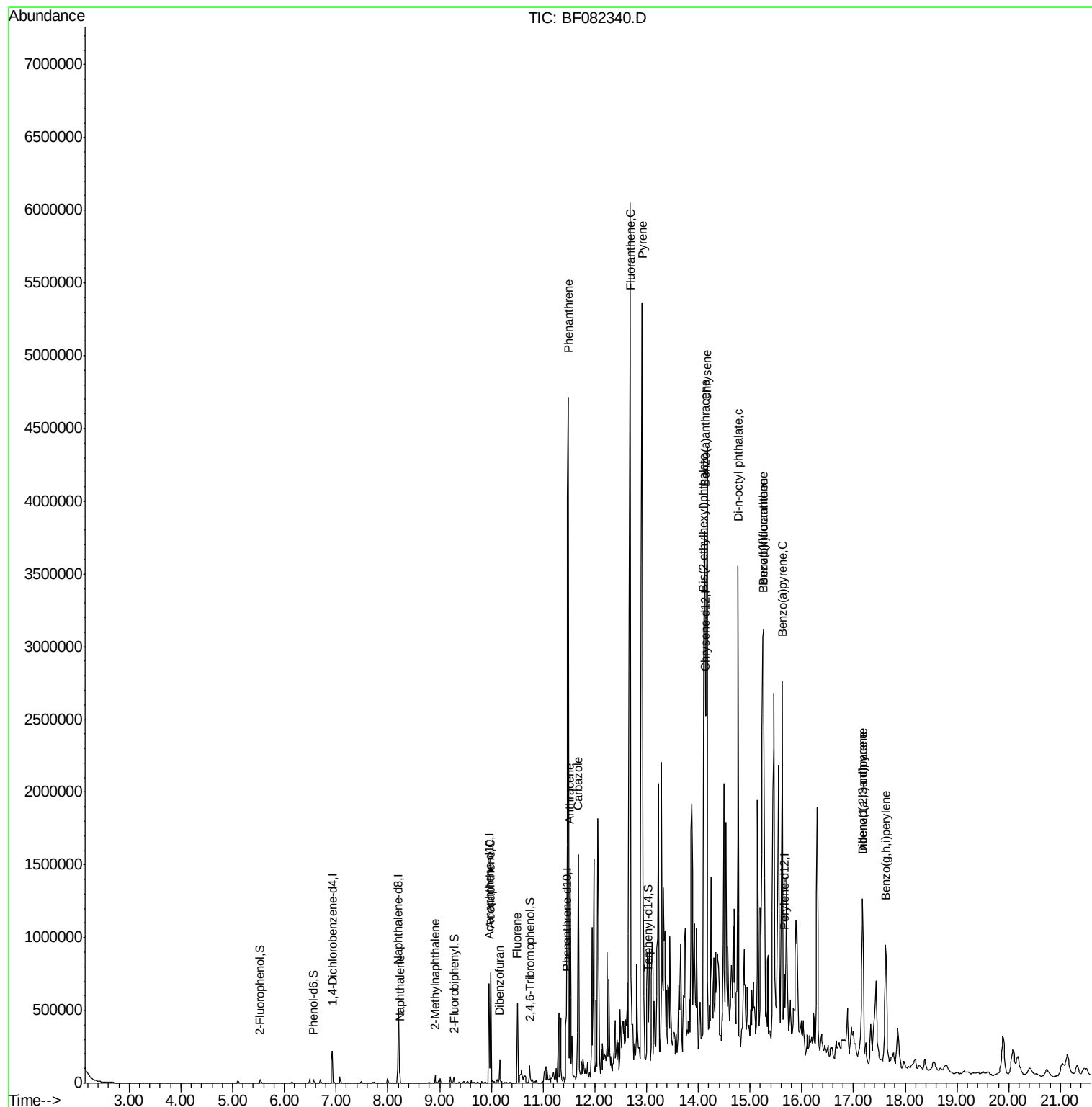
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\  
Data File : BF082340.D  
Acq On : 16 Oct 2015 22:07  
Operator : UM/IZ  
Sample : G4046-05 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

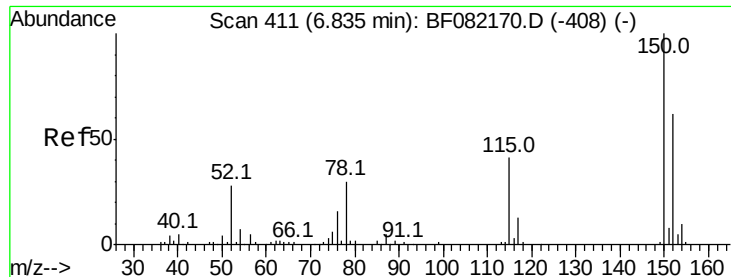
Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

Manual Integrations  
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10/19/2015 5:32:32 PM

Quant Time: Oct 19 14:52:01 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 17 01:08:23 2015  
Response via : Initial Calibration





#1

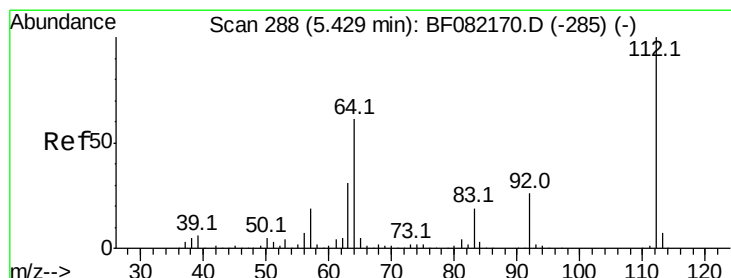
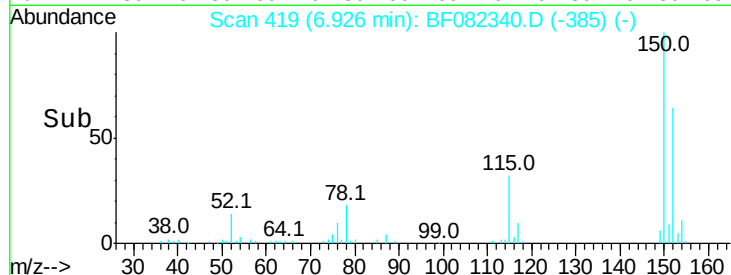
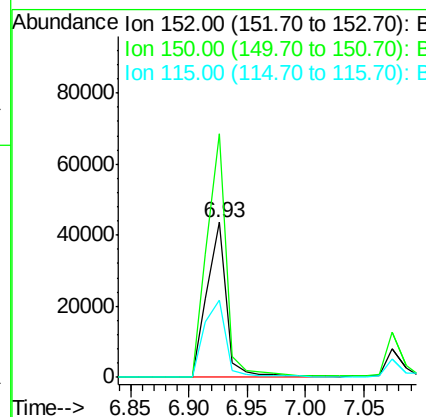
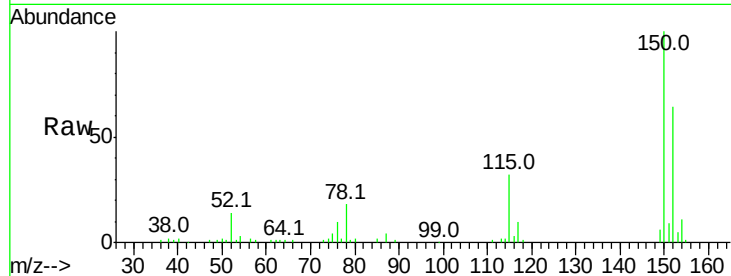
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng/ml  
RT: 6.93 min Scan# 419  
Delta R.T. 0.09 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 129.0 | 193.4 |
| 115     | 49.6  | 52.1  | 78.1# |

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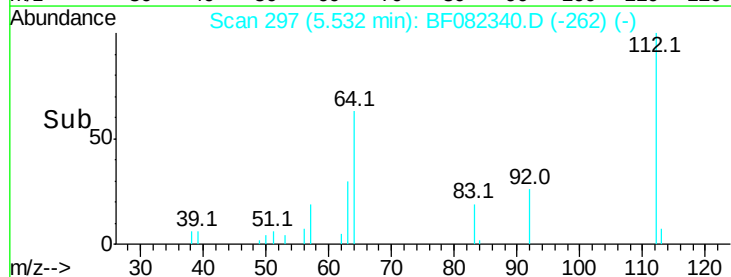
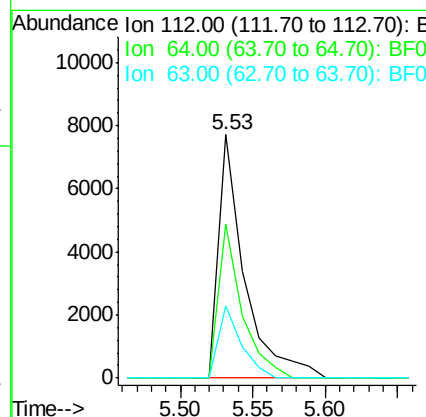
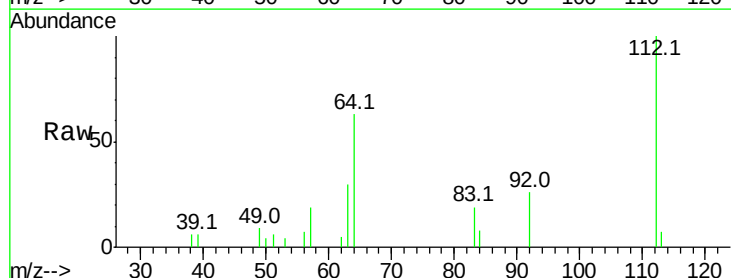
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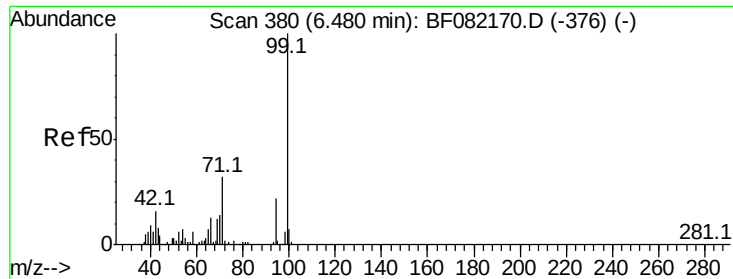


#5

2-Fluorophenol  
Concen: 3.80 ng  
RT: 5.53 min Scan# 297  
Delta R.T. 0.10 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.1  | 48.6  | 73.0  |
| 63      | 29.7  | 25.1  | 37.7  |





#7

Phenol-d6

Concen: 4.20 ng

RT: 6.56 min Scan# 387

Delta R.T. 0.08 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

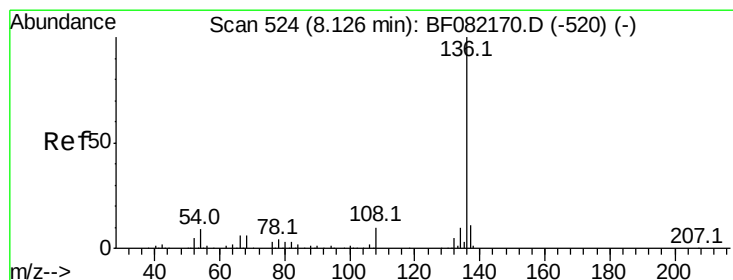
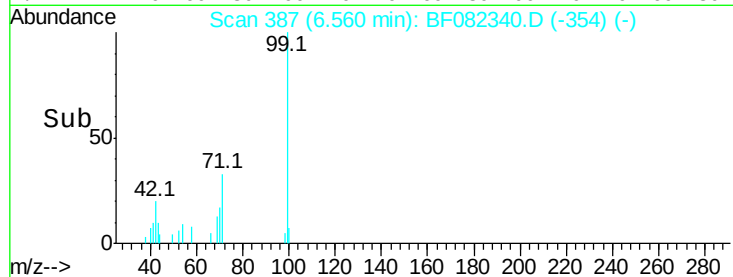
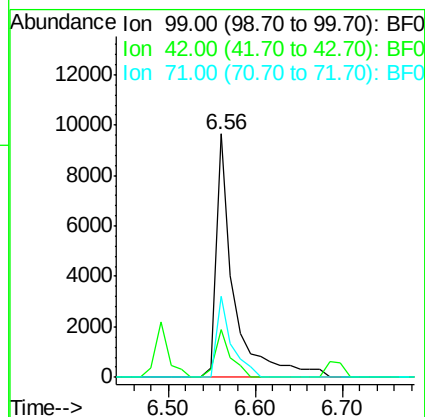
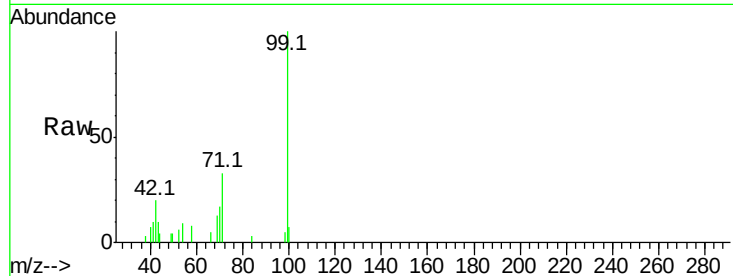
ClientSampleId :

MANAHAWKENINSULATION

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 13795 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 19.8  | 13.2  | 19.8# |
| 71        | 33.2  | 25.6  | 38.4  |

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#21

Naphthalene-d8

Concen: 20.00 ng

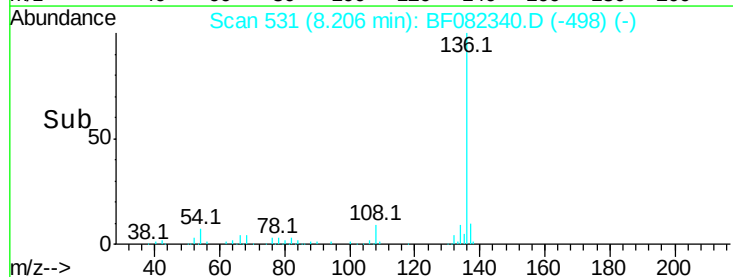
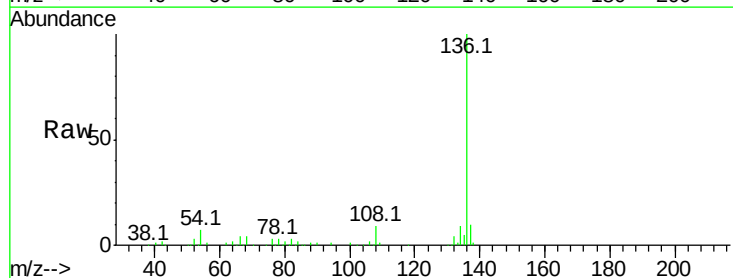
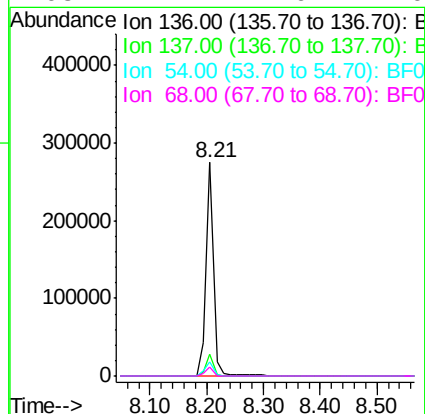
RT: 8.21 min Scan# 531

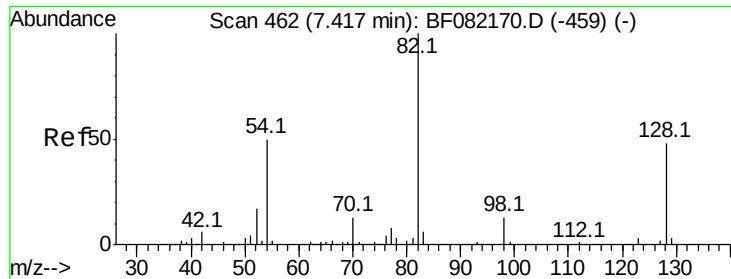
Delta R.T. 0.08 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 243756 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.3  | 9.0   | 13.6   |
| 54        | 6.7   | 7.5   | 11.3#  |
| 68        | 4.4   | 4.6   | 7.0#   |





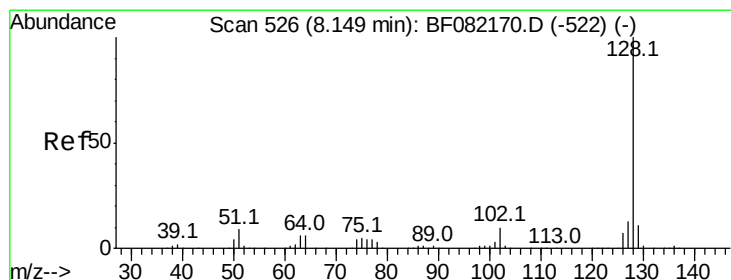
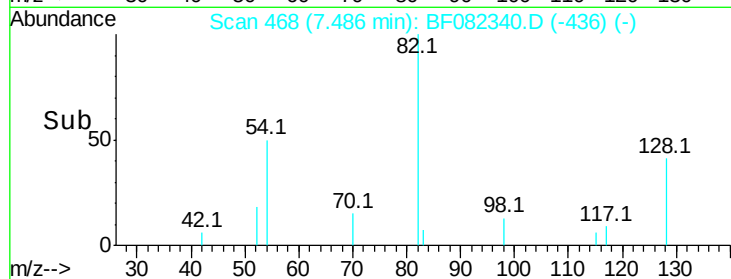
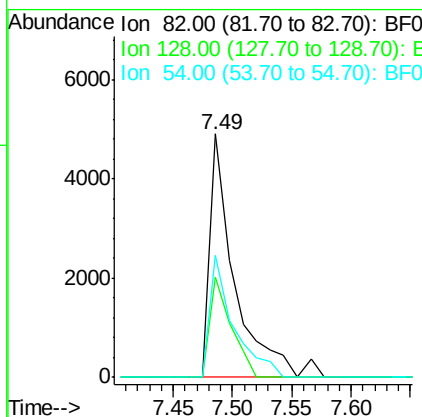
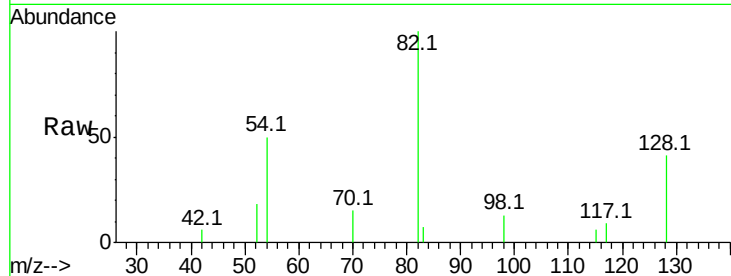
#23  
Nitrobenzene-d5  
Concen: 1.98 ng  
RT: 7.49 min Scan# 468  
Delta R.T. 0.07 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.1  | 38.7  | 58.1  |
| 54      | 50.2  | 40.1  | 60.1  |

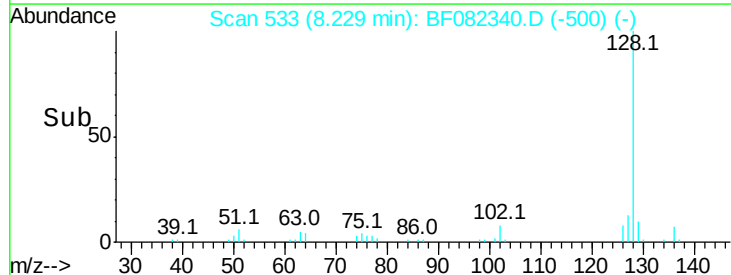
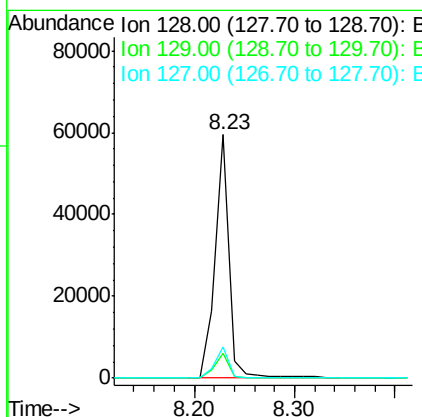
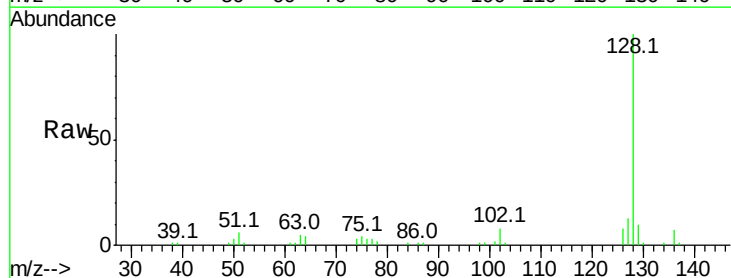
Manual Integrations  
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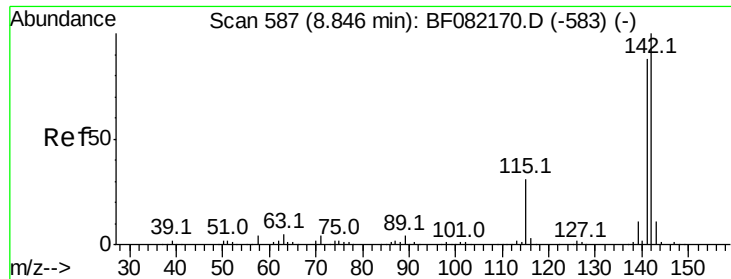
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#31  
Naphthalene  
Concen: 5.43 ng  
RT: 8.23 min Scan# 533  
Delta R.T. 0.08 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.2  | 9.1   | 13.7  |
| 127     | 12.6  | 10.7  | 16.1  |





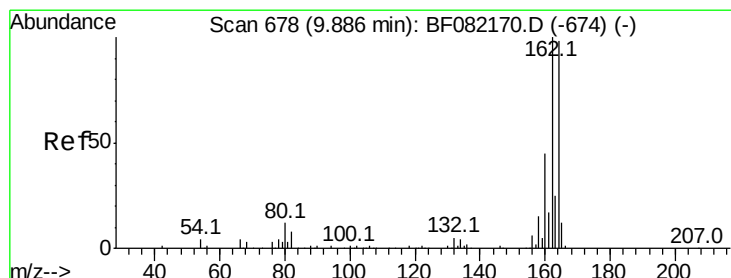
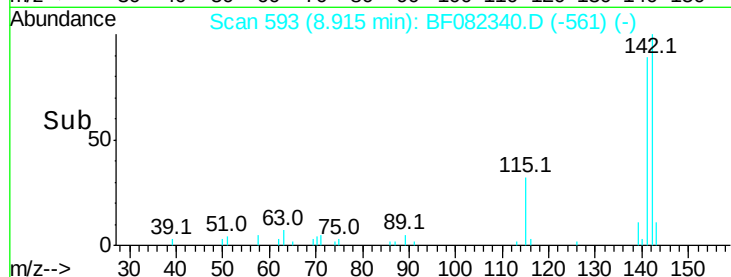
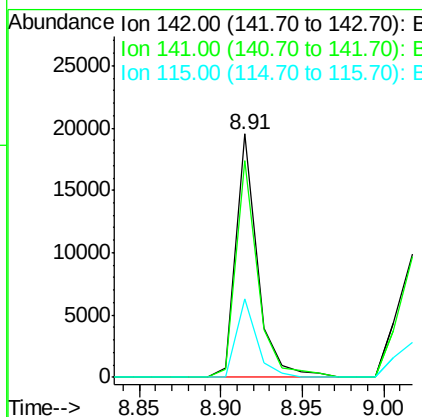
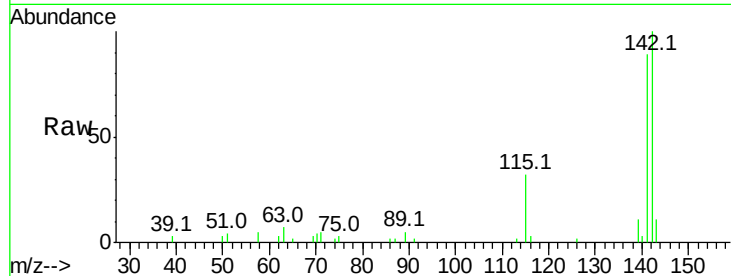
#37  
2-Methylnaphthalene  
Concen: 2.43 ng  
RT: 8.91 min Scan# 593  
Delta R.T. 0.07 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.1  | 70.4  | 105.6 |
| 115     | 32.5  | 24.6  | 37.0  |

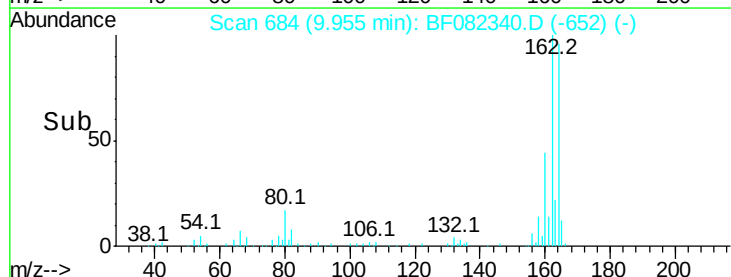
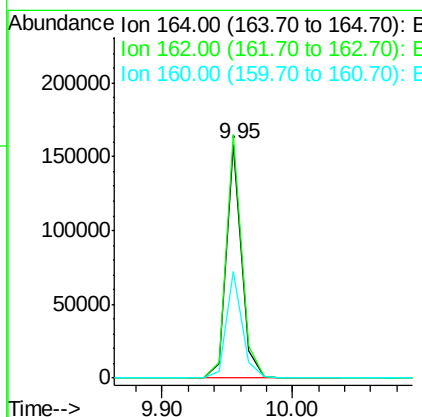
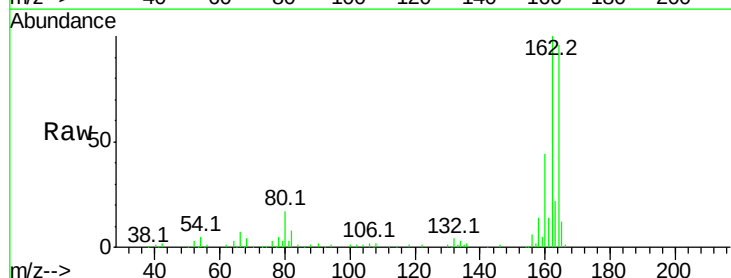
Manual Integrations  
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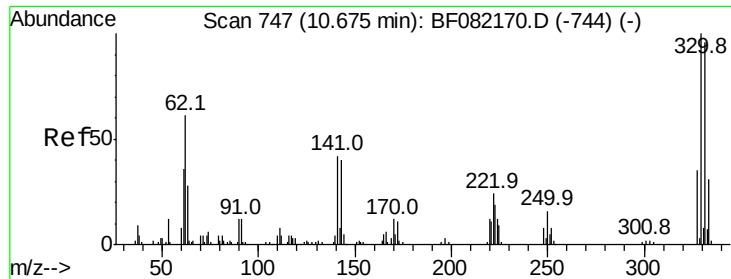
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10/19/2015 5:32:32 PM



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.95 min Scan# 684  
Delta R.T. 0.07 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.2 | 81.6  | 122.4 |
| 160     | 45.7  | 36.4  | 54.6  |





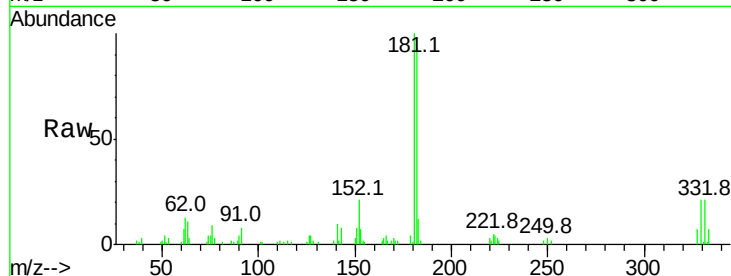
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 2,4,6-Tribromophenol  
 Concen: 3.88 ng  
 RT: 10.74 min Scan# 753  
 Delta R.T. 0.06 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MANAHAWKENINSULATION

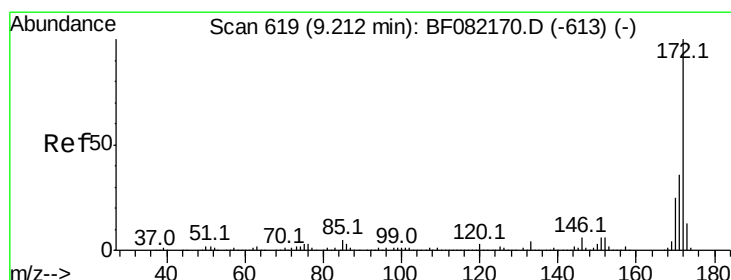
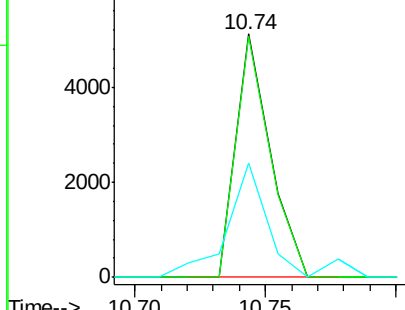
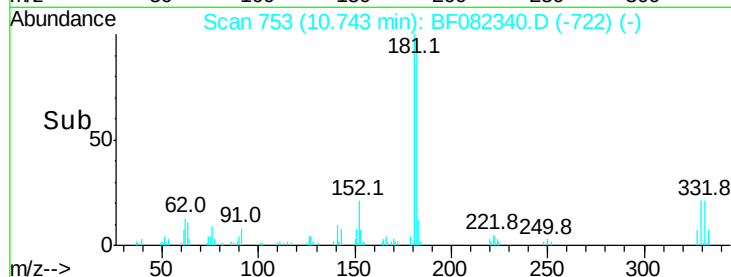
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.8  | 77.1  | 115.7 |
| 141     | 59.0  | 29.8  | 44.8  |

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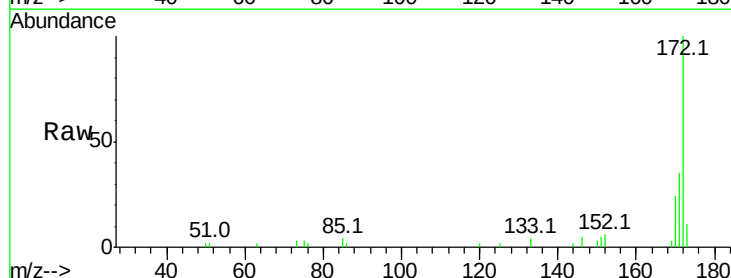


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

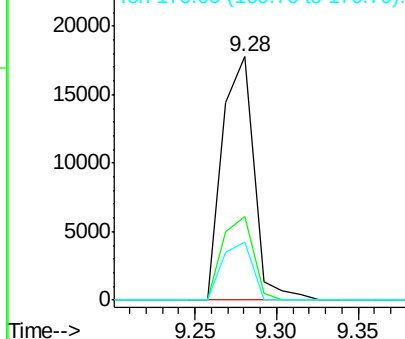
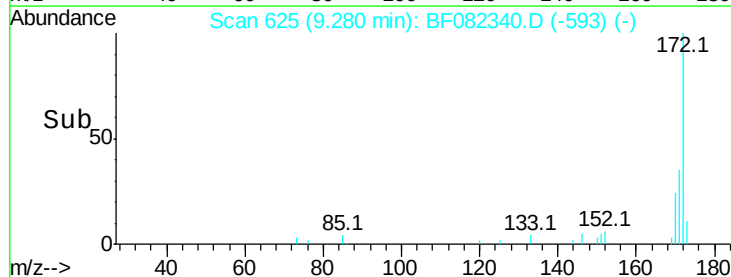


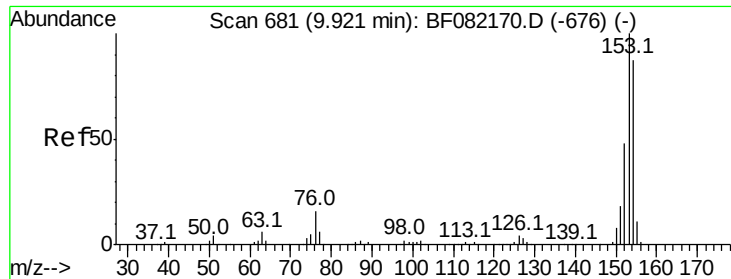
#44  
 2-Fluorobiphenyl  
 Concen: 3.04 ng  
 RT: 9.28 min Scan# 625  
 Delta R.T. 0.07 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 28.6  | 42.8  |
| 170     | 24.0  | 19.7  | 29.5  |



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





#51

Acenaphthene

Concen: 22.23 ng

RT: 9.99 min Scan# 687

Delta R.T. 0.07 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

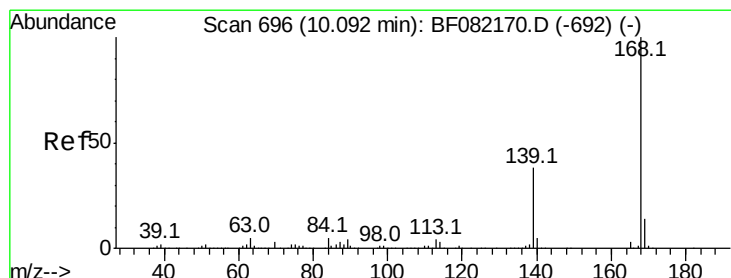
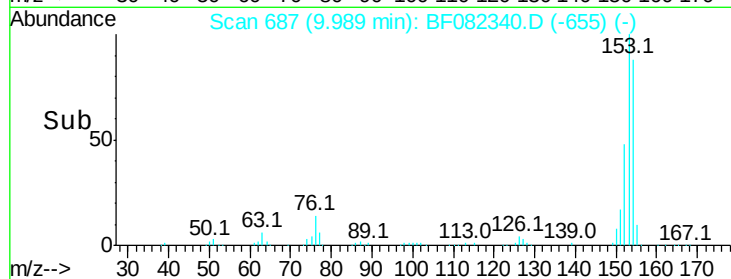
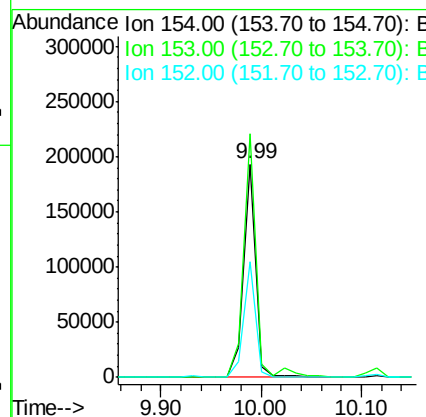
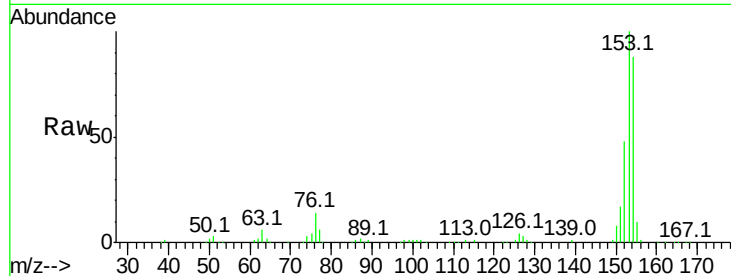
ClientSampleId :

MANAHAWKENINSULATION

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 162111 |       |       |
| 153     | 114.2 | 91.4   | 137.2 |       |
| 152     | 54.4  | 44.3   | 66.5  |       |

Manual Integrations  
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#54

Dibenzofuran

Concen: 7.19 ng

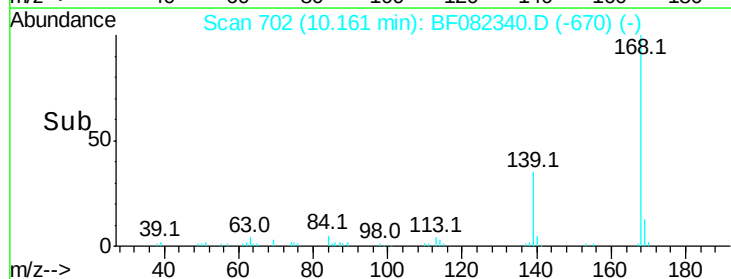
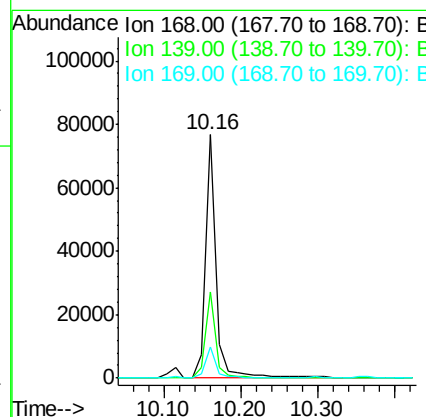
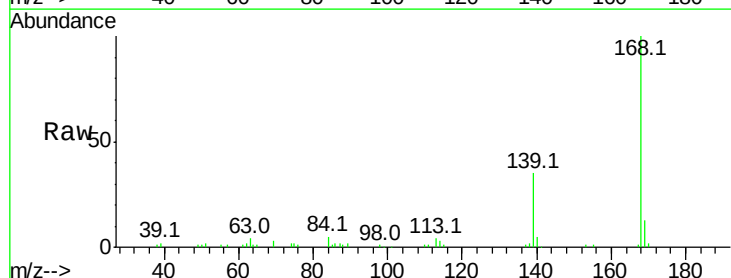
RT: 10.16 min Scan# 702

Delta R.T. 0.07 min

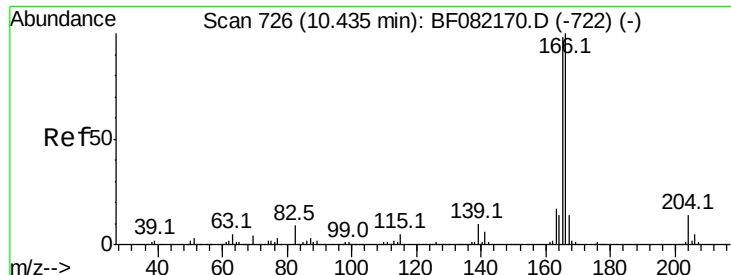
Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 168     | 100   | 71985 |       |       |
| 139     | 35.2  | 31.0  | 46.6  |       |
| 169     | 13.0  | 10.9  | 16.3  |       |







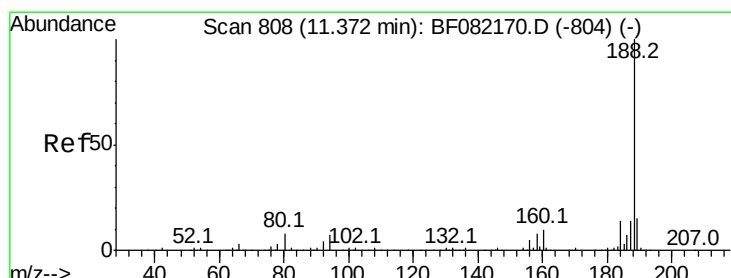
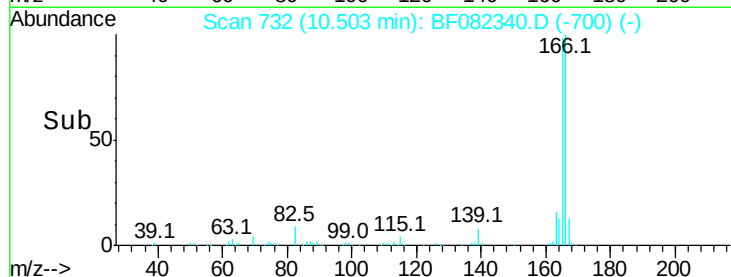
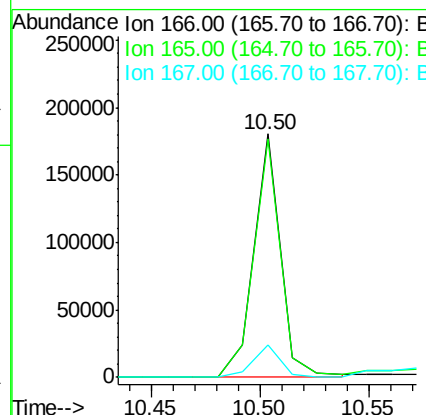
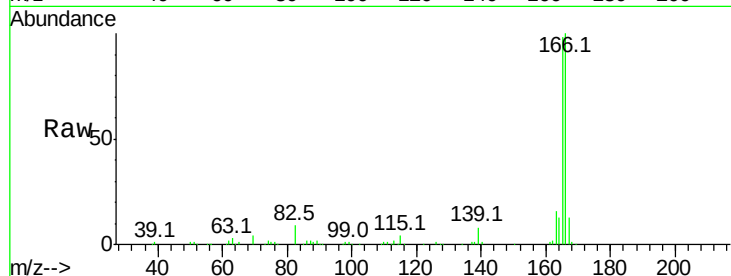
#57  
**Fluorene**  
 Concen: 18.68 ng  
 RT: 10.50 min Scan# 732  
 Delta R.T. 0.07 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MANAHAWKENINSULATION

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   |      |       |       |
| 165     | 98.1  | 78.3 | 117.5 |       |
| 167     | 13.5  | 10.8 | 16.2  |       |

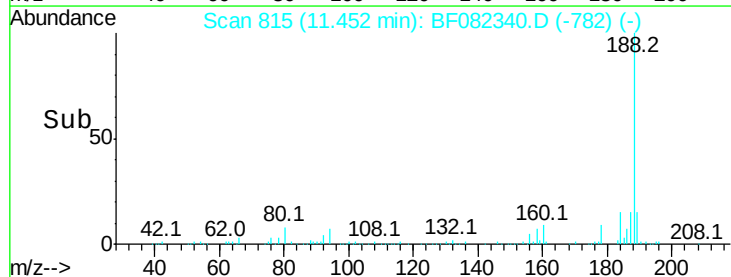
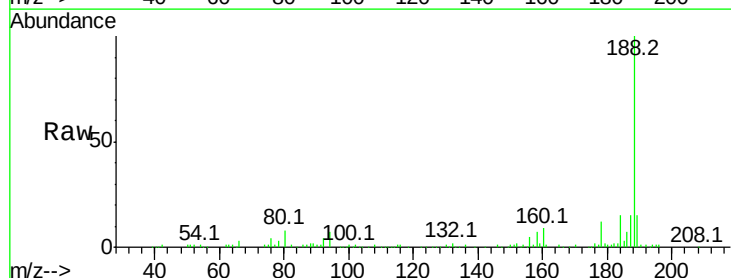
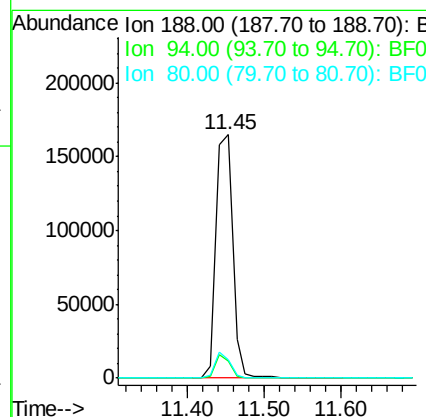
Manual Integrations  
 APPROVED

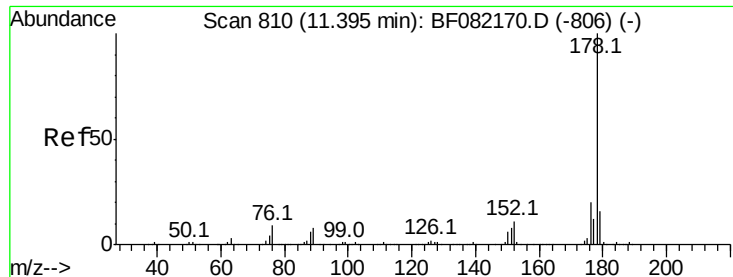
MMdadoda  
 10/19/2015 5:32:32 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.45 min Scan# 815  
 Delta R.T. 0.08 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 7.1   | 5.8  | 8.6   |       |
| 80      | 7.5   | 6.4  | 9.6   |       |





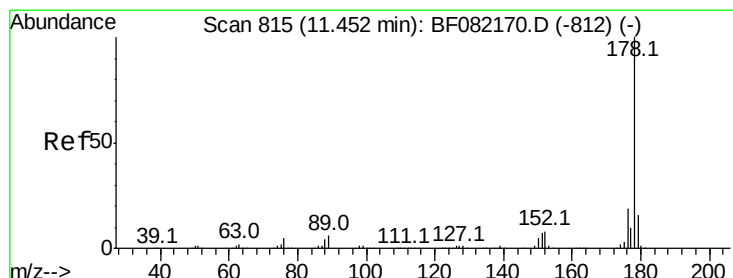
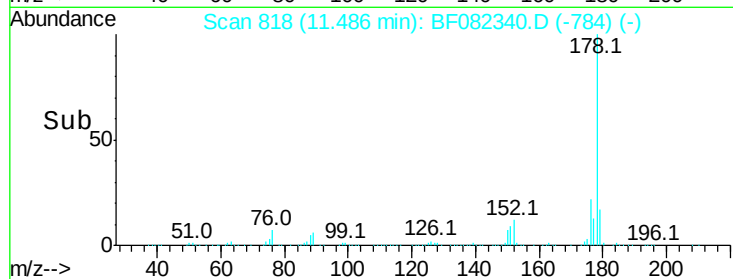
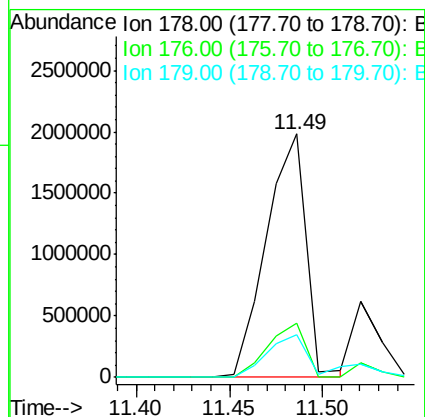
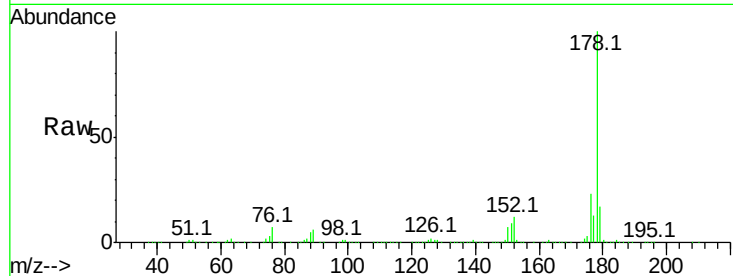
#70  
Phenanthrene  
Concen: 240.37 ng  
RT: 11.49 min Scan# 818  
Delta R.T. 0.09 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

Tot Ion:178 Resp: 2957899  
Ion Ratio Lower Upper  
178 100  
176 22.5 16.0 24.0  
179 17.3 12.6 19.0

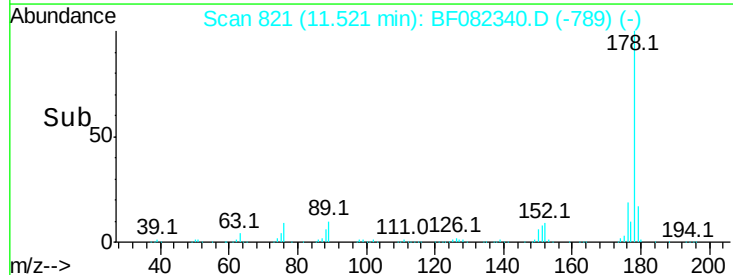
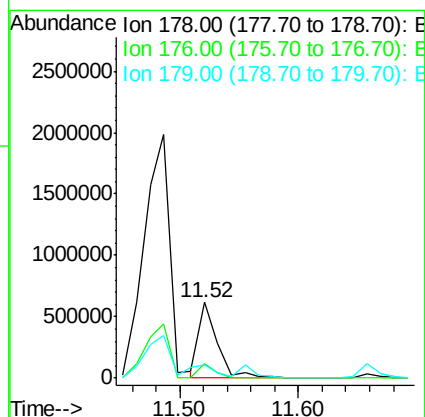
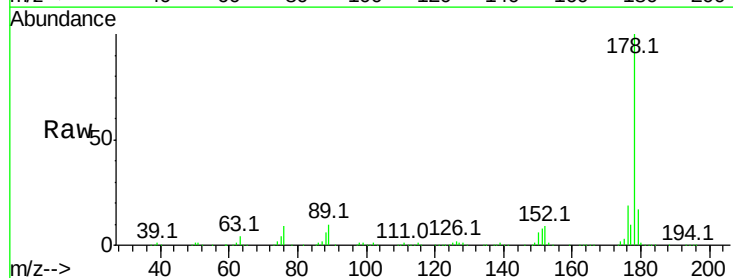
Manual Integrations  
APPROVED

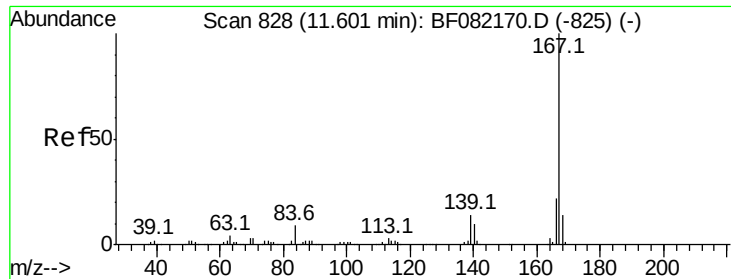
MMdadoda  
10/19/2015 5:32:32 PM



#71  
Anthracene  
Concen: 53.80 ng  
RT: 11.52 min Scan# 821  
Delta R.T. 0.07 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Tgt Ion:178 Resp: 682256  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.0  
179 17.1 12.5 18.7





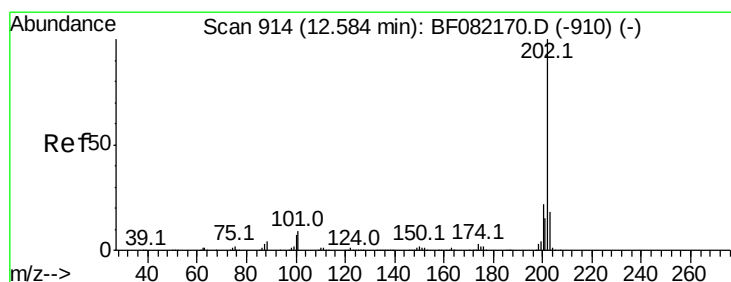
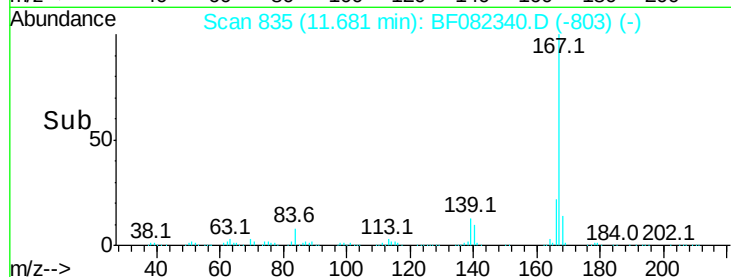
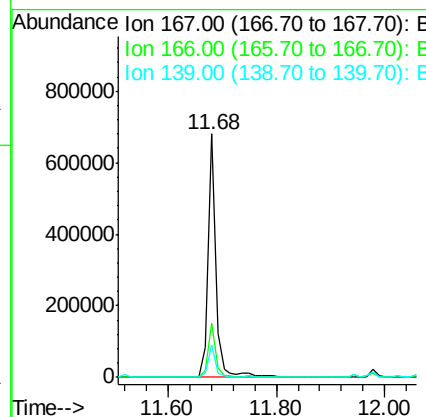
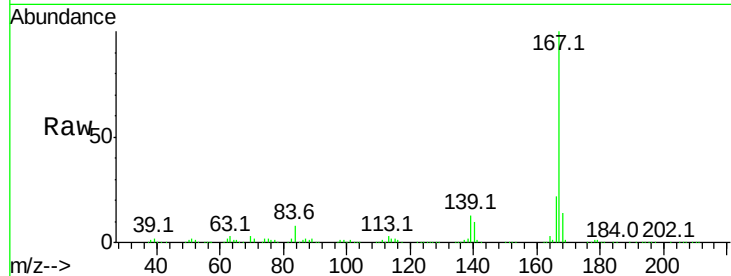
#72  
 Carbazole  
 Concen: 58.76 ng  
 RT: 11.68 min Scan# 835  
 Delta R.T. 0.07 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.1  | 17.3  | 25.9  |
| 139     | 13.3  | 11.2  | 16.8  |

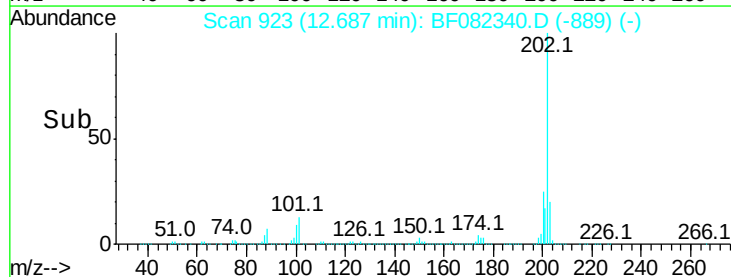
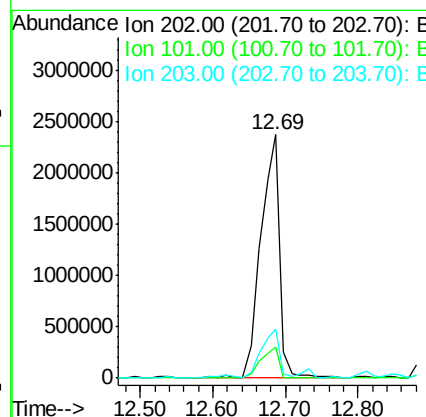
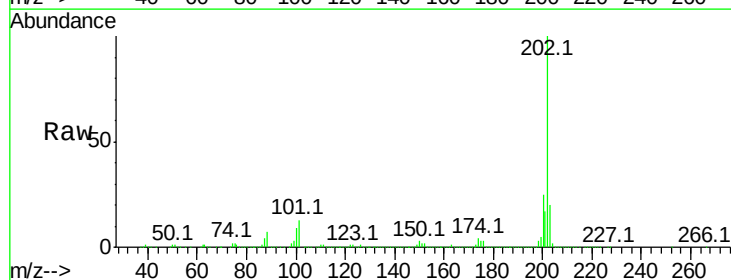
Manual Integrations  
 APPROVED

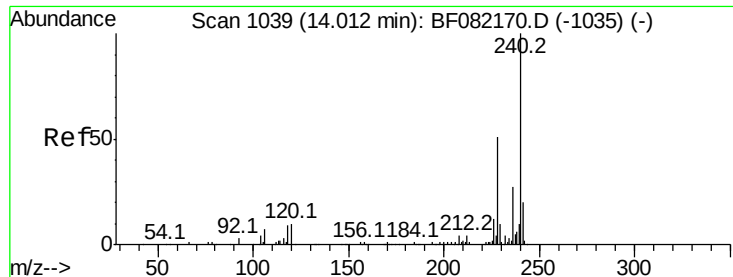
MMdadoda  
 10/19/2015 5:32:32 PM



#74  
 Fluoranthene  
 Concen: 328.11 ng  
 RT: 12.69 min Scan# 923  
 Delta R.T. 0.09 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.6  | 0.0   | 29.3  |
| 203     | 20.4  | 0.0   | 37.8  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.14 min Scan# 1050

Delta R.T. 0.07 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

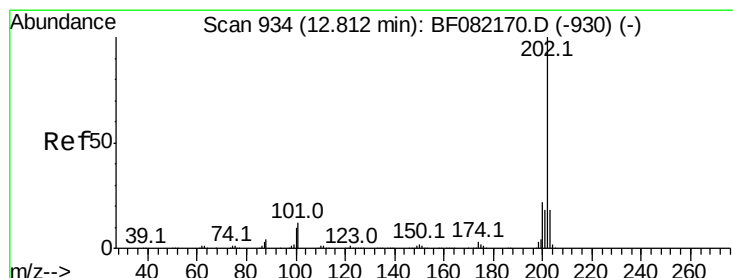
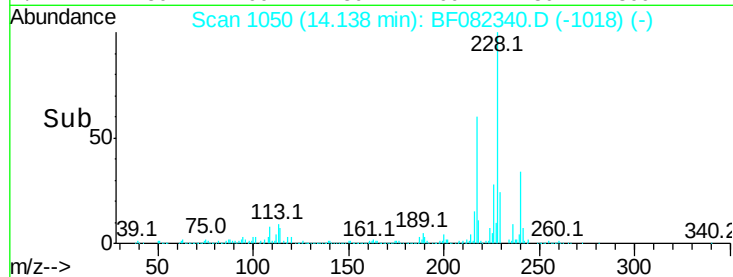
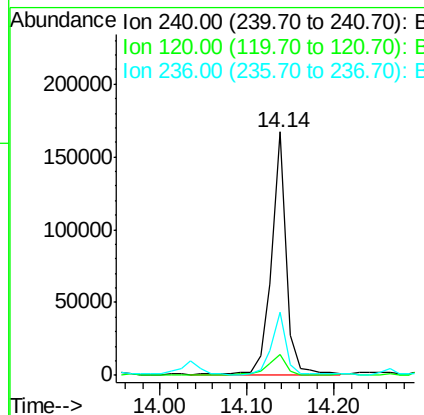
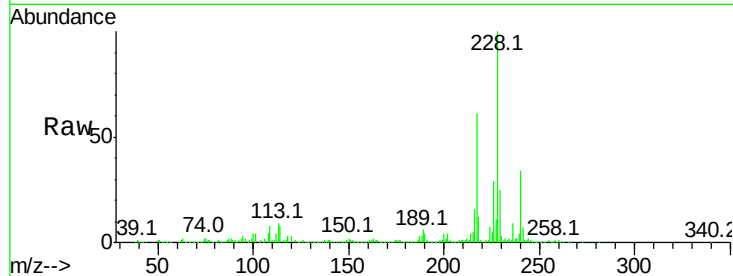
ClientSampleId :

MANAHAWKENINSULATION

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 193227 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.5   | 8.1   | 12.1   |
| 236       | 26.2  | 21.3  | 31.9   |

Manual Integrations  
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#77

Pyrene

Concen: 310.46 ng m

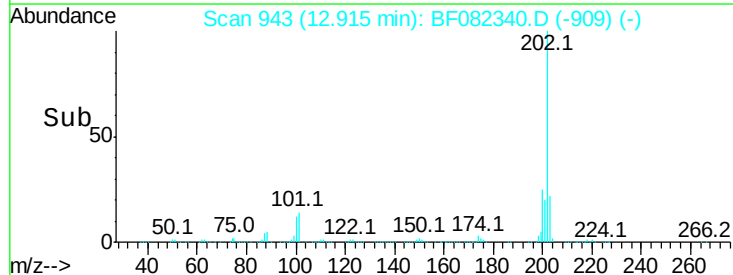
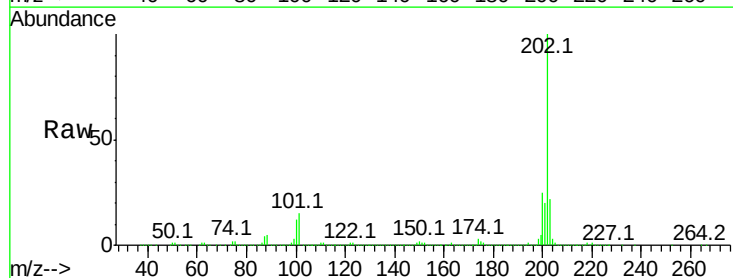
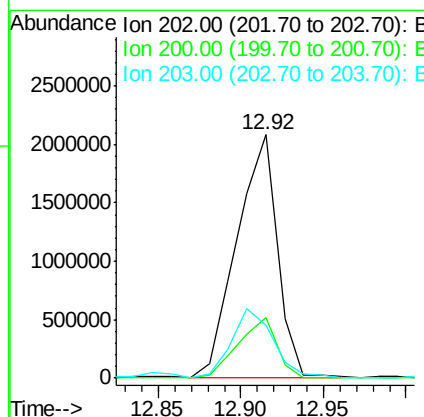
RT: 12.92 min Scan# 943

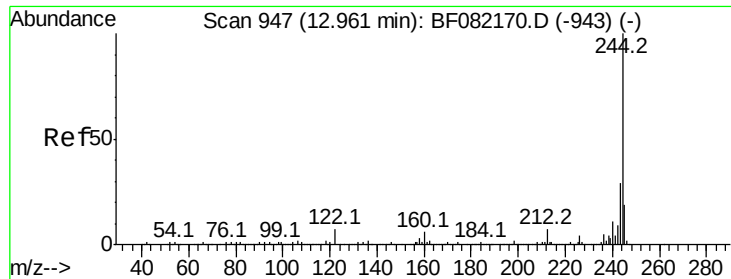
Delta R.T. 0.09 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 3560116 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 25.1  | 17.9  | 26.9    |
| 203       | 21.8  | 14.5  | 21.7#   |





#78

Terphenyl-d14

Concen: 4.46 ng

RT: 13.03 min Scan# 953

Delta R.T. 0.07 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

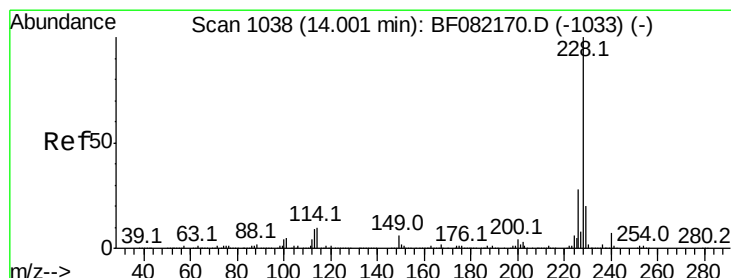
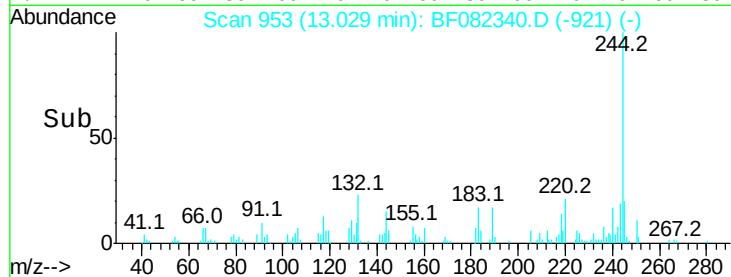
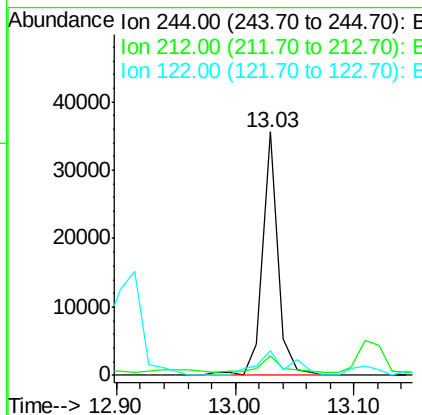
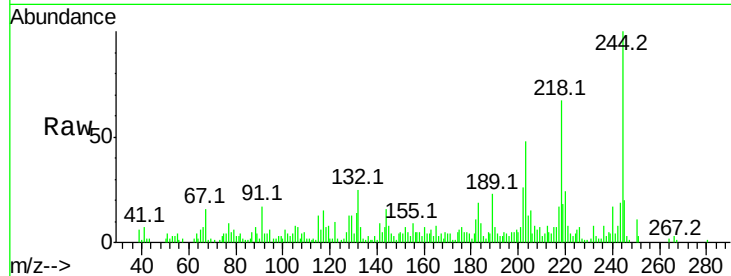
ClientSampleId :

MANAHAWKENINSULATION

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 32499 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 8.1   | 5.8   | 8.6   |
| 122       | 10.0  | 5.9   | 8.9#  |

Manual Integrations  
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MMdadoda  
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#80

Benzo(a)anthracene

Concen: 222.64 ng

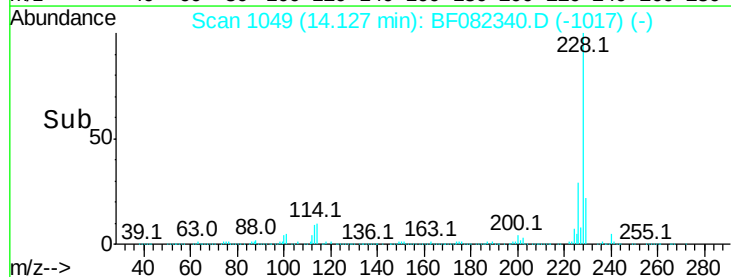
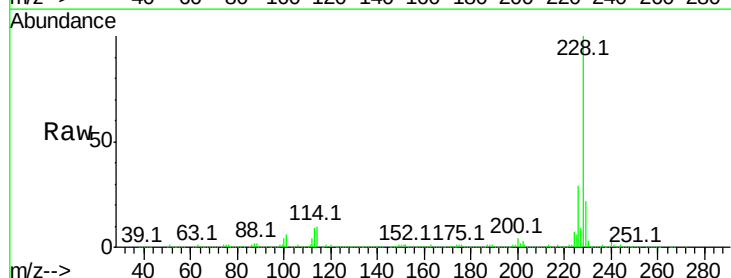
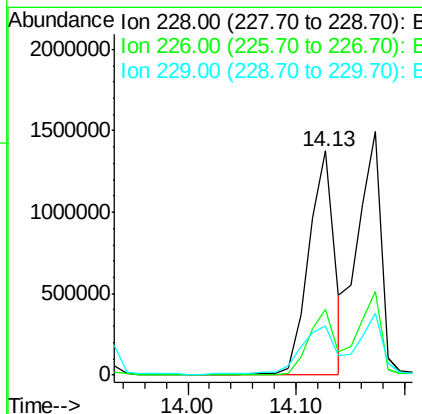
RT: 14.13 min Scan# 1049

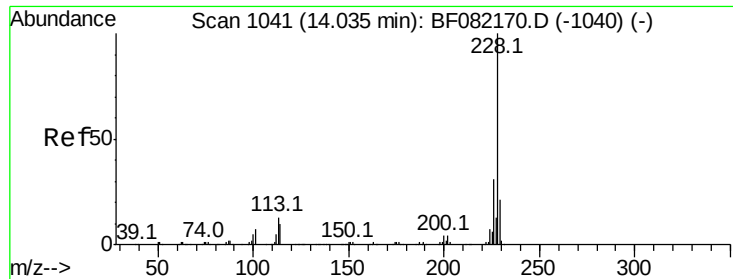
Delta R.T. 0.07 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 228   | Resp: | 2238388 |
| Ion Ratio | Lower | Upper |         |
| 228       | 100   |       |         |
| 226       | 29.4  | 22.3  | 33.5    |
| 229       | 22.1  | 16.2  | 24.2    |





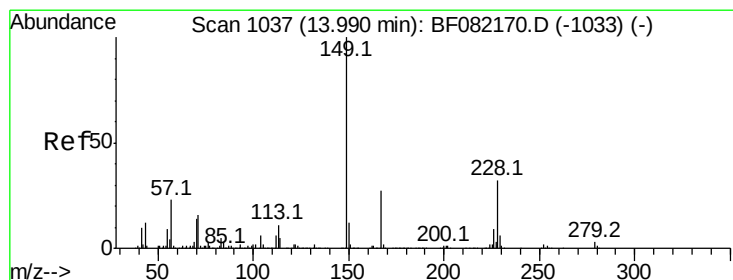
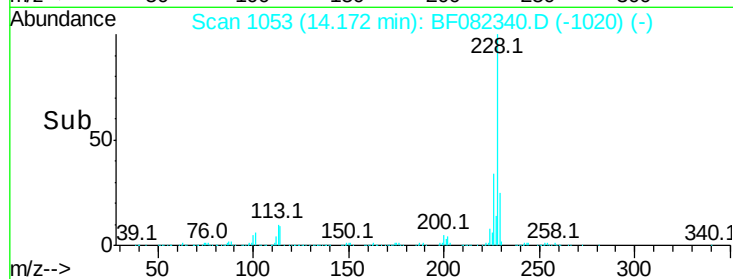
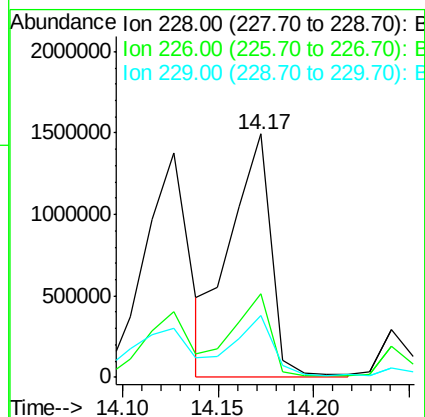
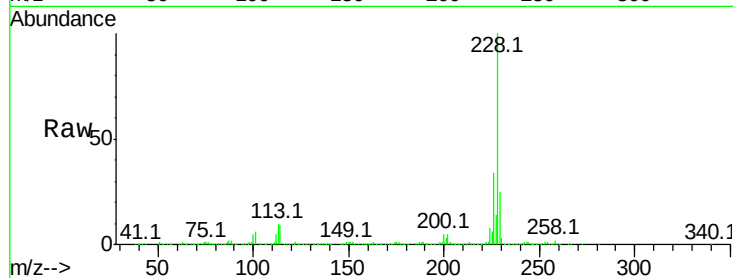
#82  
 Chrysene  
 Concen: 210.53 ng/ml  
 RT: 14.17 min Scan# 1053  
 Delta R.T. 0.08 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.1  | 24.4  | 36.6  |
| 229     | 25.3  | 16.3  | 24.5  |

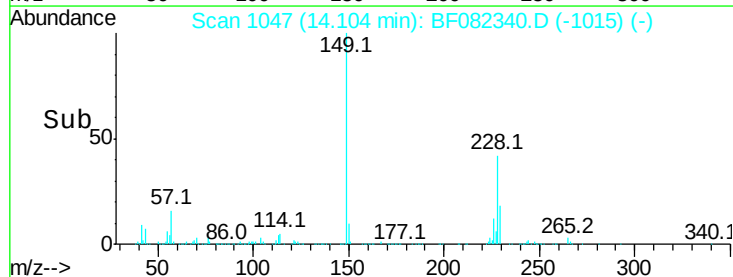
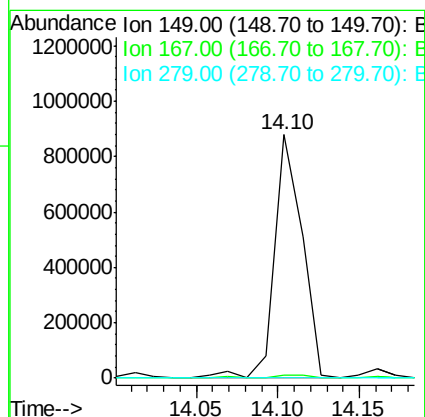
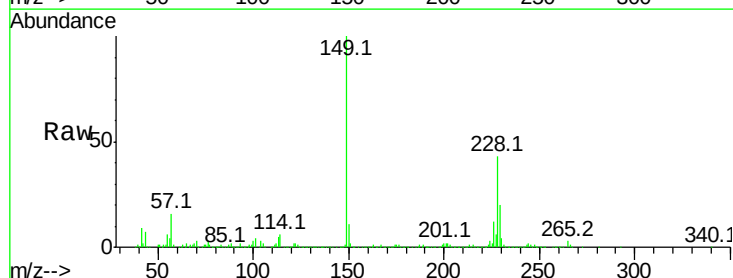
Manual Integrations  
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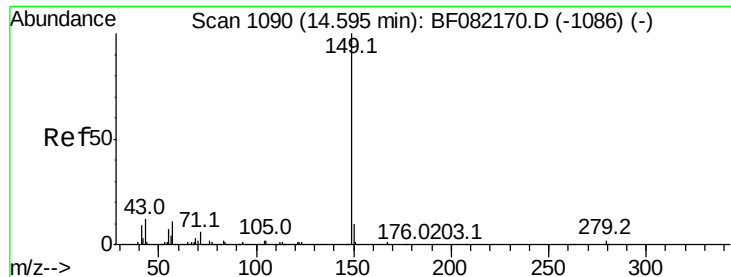
MMdadoda  
 10/19/2015 5:32:32 PM



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 139.37 ng  
 RT: 14.10 min Scan# 1047  
 Delta R.T. 0.07 min  
 Lab File: BF082340.D  
 Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.3   | 21.3  | 31.9  |
| 279     | 0.0   | 2.6   | 4.0   |





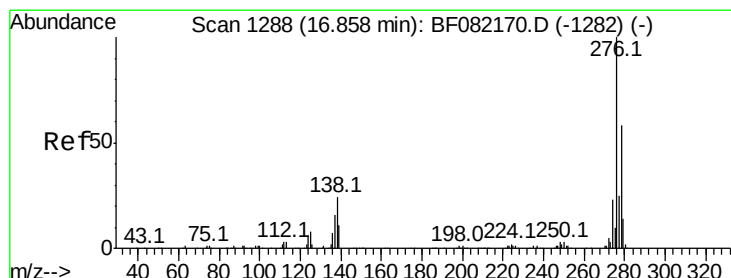
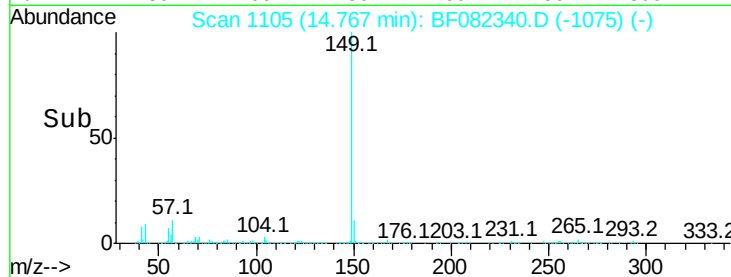
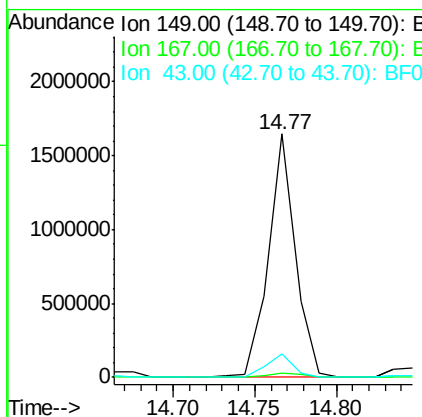
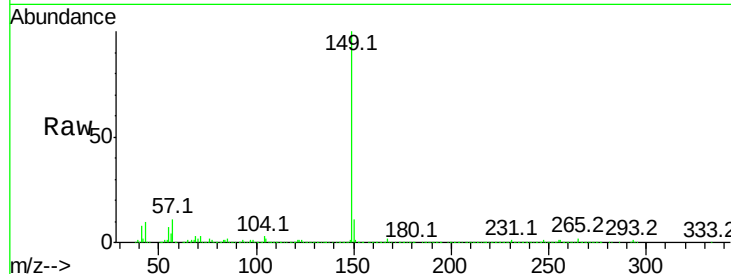
#84  
Di-n-octyl phthalate  
Concen: 147.86 ng  
RT: 14.77 min Scan# 1105  
Delta R.T. 0.05 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 2.4   | 1.3   | 1.9#  |
| 43      | 9.4   | 7.4   | 11.2  |

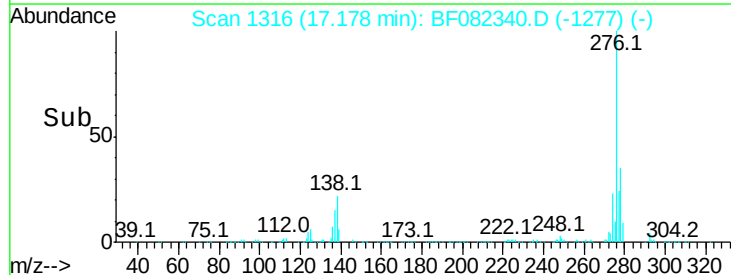
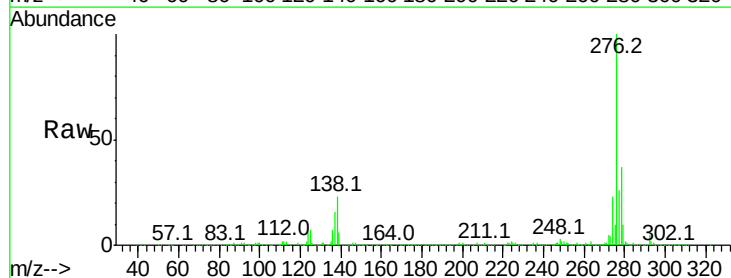
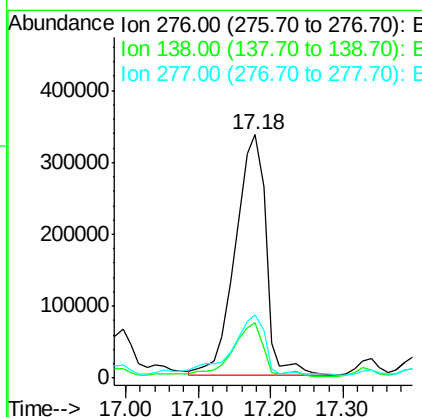
Manual Integrations  
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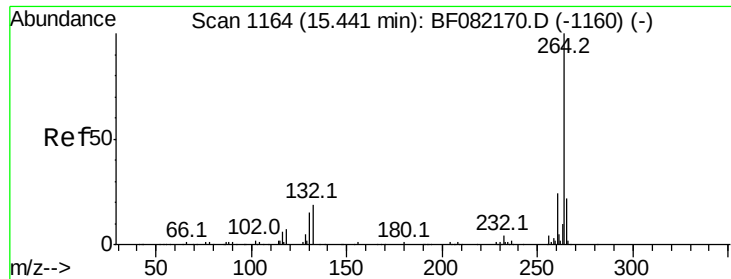
MMdadoda  
10/19/2015 5:32:32 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 117.97 ng  
RT: 17.18 min Scan# 1316  
Delta R.T. 0.15 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.5  | 19.7  | 29.5  |
| 277     | 26.9  | 20.1  | 30.1  |





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.67 min Scan# 1184

Delta R.T. 0.08 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

ClientSampleId :

MANAHAWKENINSULATION

Tot Ion:264 Resp: 228738

Ion Ratio Lower Upper

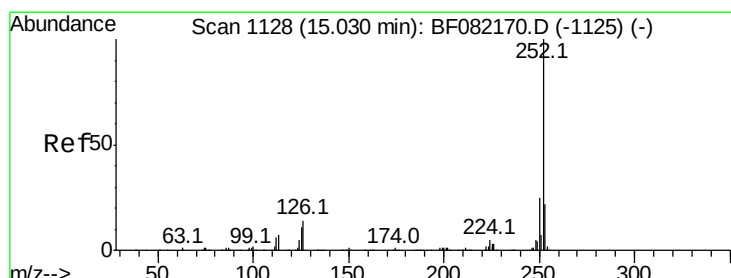
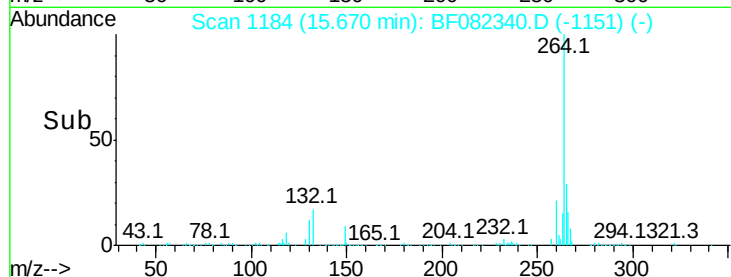
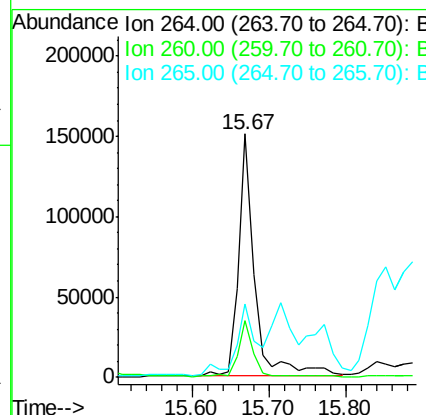
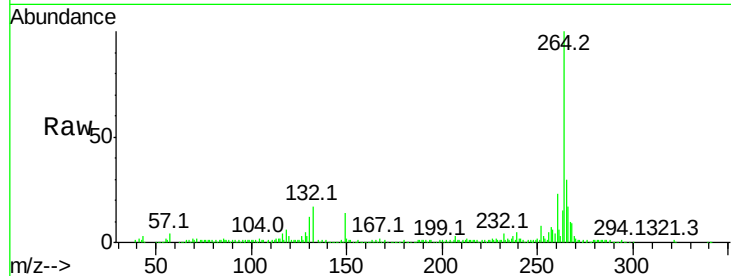
264 100

260 23.4 19.0 28.6

265 29.9 17.3 25.9#

Manual Integrations  
APPROVED

MMdadoda  
10/19/2015 5:32:32 PM



#87

Benzo(b)fluoranthene

Concen: 182.44 ng m

RT: 15.25 min Scan# 1147

Delta R.T. 0.08 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

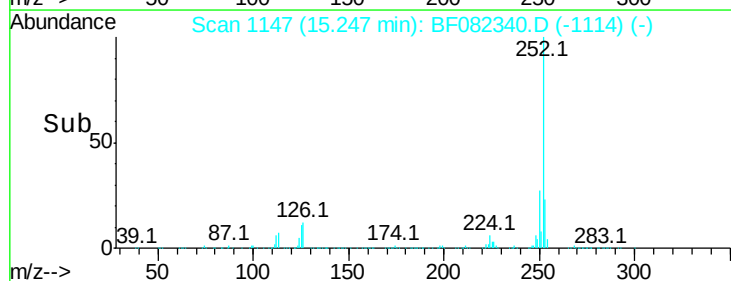
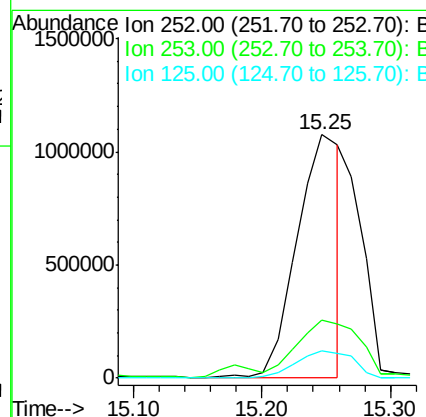
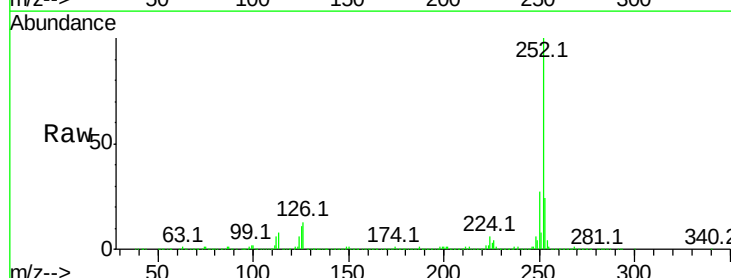
Tgt Ion:252 Resp: 2538863

Ion Ratio Lower Upper

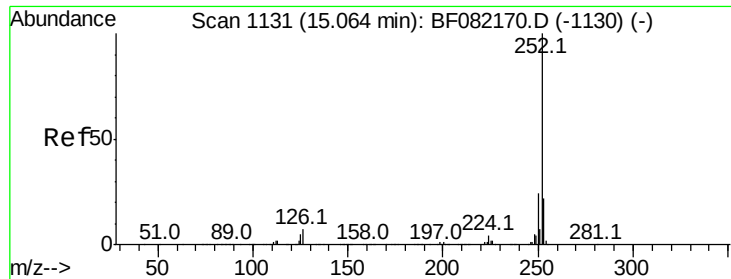
252 100

253 23.9 18.0 27.0

125 11.2 8.6 12.8







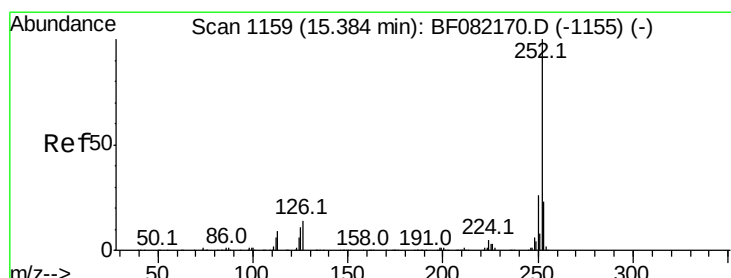
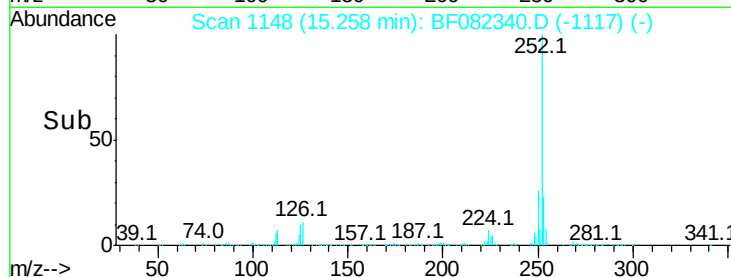
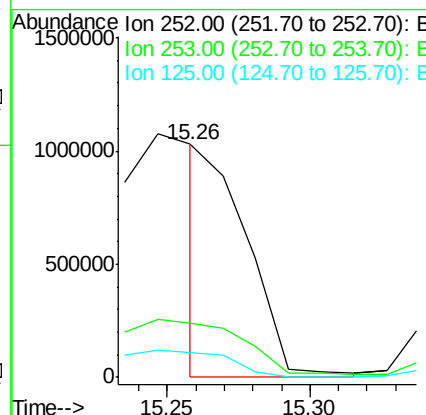
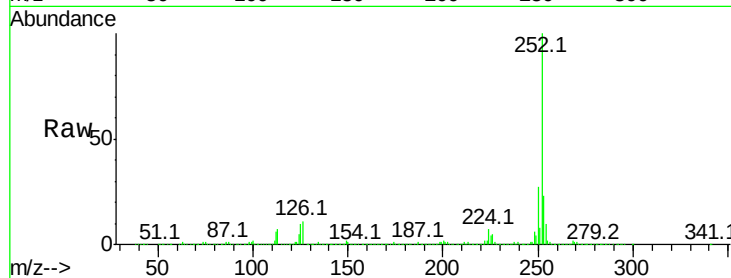
#88  
Benzo(k)fluoranthene  
Concen: 87.69 ng m  
RT: 15.26 min Scan# 1148  
Delta R.T. 0.06 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Instrument :  
BNA\_F  
ClientSampleId :  
MANAHAWKENINSULATION

Tot Ion:252 Resp: 1025754  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.8 26.6  
125 10.5 6.7 10.1#

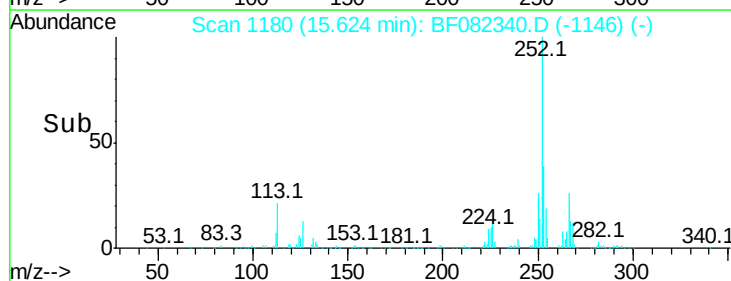
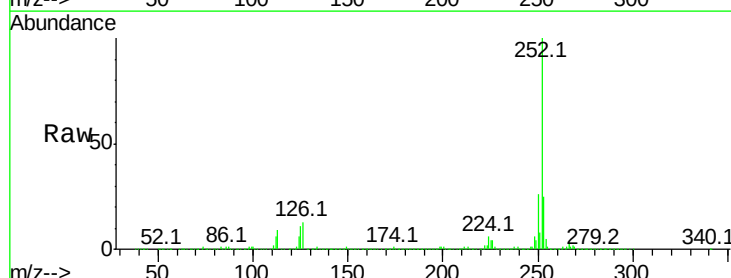
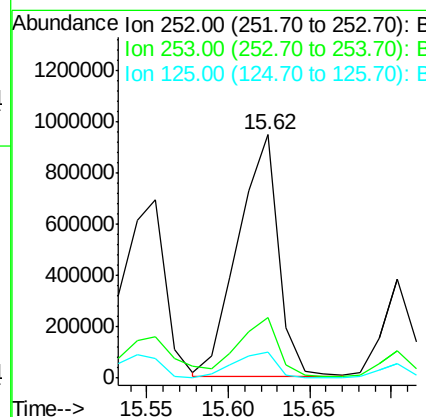
Manual Integrations  
APPROVED

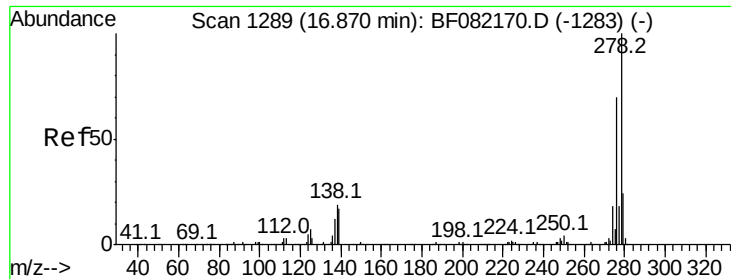
MMdadoda  
10/19/2015 5:32:32 PM



#89  
Benzo(a)pyrene  
Concen: 136.32 ng  
RT: 15.62 min Scan# 1180  
Delta R.T. 0.09 min  
Lab File: BF082340.D  
Acq: 16 Oct 2015 22:07

Tgt Ion:252 Resp: 1630303  
Ion Ratio Lower Upper  
252 100  
253 24.9 18.2 27.2  
125 10.7 8.9 13.3





#90

Dibenzo(a,h)anthracene

Concen: 24.71 ng

RT: 17.18 min Scan# 1316

Delta R.T. 0.13 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

Instrument :

BNA\_F

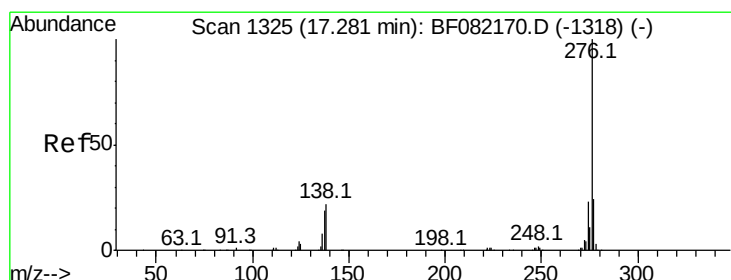
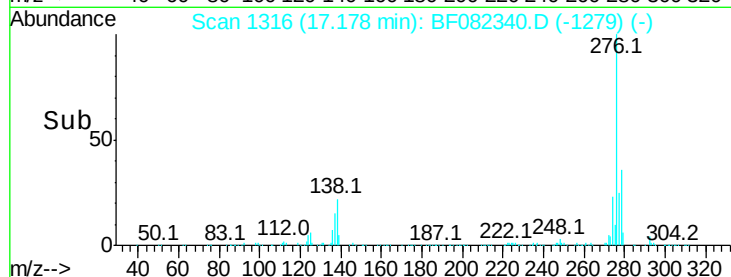
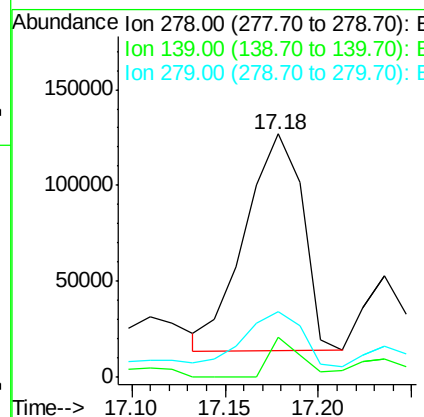
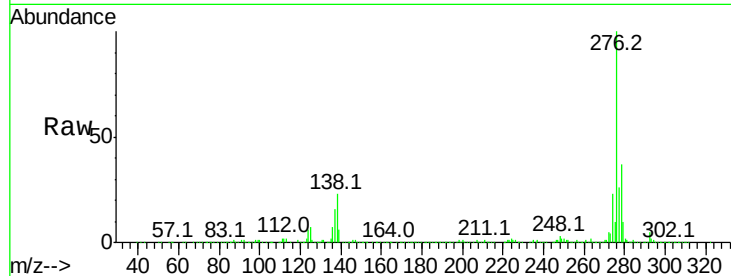
ClientSampleId :

MANAHAWKENINSULATION

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 242180 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 16.3  | 13.3  | 19.9   |
| 279       | 27.2  | 18.9  | 28.3   |

Manual Integrations  
APPROVED

MMdadoda  
10/19/2015 5:32:32 PM



#91

Benzo(g,h,i)perylene

Concen: 88.40 ng

RT: 17.62 min Scan# 1355

Delta R.T. 0.16 min

Lab File: BF082340.D

Acq: 16 Oct 2015 22:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 841659 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.7  | 18.8  | 28.2   |
| 138       | 22.3  | 17.4  | 26.2   |

