

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071316\  
 Data File : BF088975.D  
 Acq On : 13 Jul 2016 23:36  
 Operator : UM/SJ  
 Sample : H3946-07  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M8-B3(0-5)C

## Manual Integrations

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Quant Time: Jul 14 03:16:45 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 14 01:23:58 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 74770    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.98  | 136  | 253697   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.72  | 164  | 105156   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.20 | 188  | 159803   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.83 | 240  | 132409   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.20 | 264  | 115772   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 579456   | 116.15 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.35  | 99   | 719449   | 111.60 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.27  | 82   | 509019   | 105.14 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.51 | 330  | 127534   | 130.61 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.06  | 172  | 709368   | 106.56 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.79 | 244  | 419073   | 70.49  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate          | 9.46  | 163  | 173513   | 23.16  | ng    | 98       |
| 70) Phenanthrene               | 11.22 | 178  | 28631    | 3.28   | ng    | 99       |
| 74) Fluoranthene               | 12.41 | 202  | 70101    | 7.92   | ng    | 94       |
| 77) Pyrene                     | 12.64 | 202  | 60961    | 5.43   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.82 | 228  | 47536    | 5.58   | ng    | 96       |
| 82) Chrysene                   | 13.85 | 228  | 36423    | 4.32   | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 13.83 | 149  | 58734    | 10.27  | ng    | 97       |
| 84) Di-n-octyl phthalate       | 14.48 | 149  | 156468   | 16.11  | ng    | # 100    |
| 85) Indeno(1,2,3-cd)pyrene     | 16.48 | 276  | 19048    | 2.94   | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 14.82 | 252  | 51547m   | 7.10   | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.83 | 252  | 21109m   | 3.34   | ng    |          |
| 89) Benzo(a)pyrene             | 15.14 | 252  | 33543m   | 5.46   | ng    |          |
| 91) Benzo(a,h,i)perylene       | 16.87 | 276  | 20168    | 3.80   | ng    | 96       |

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

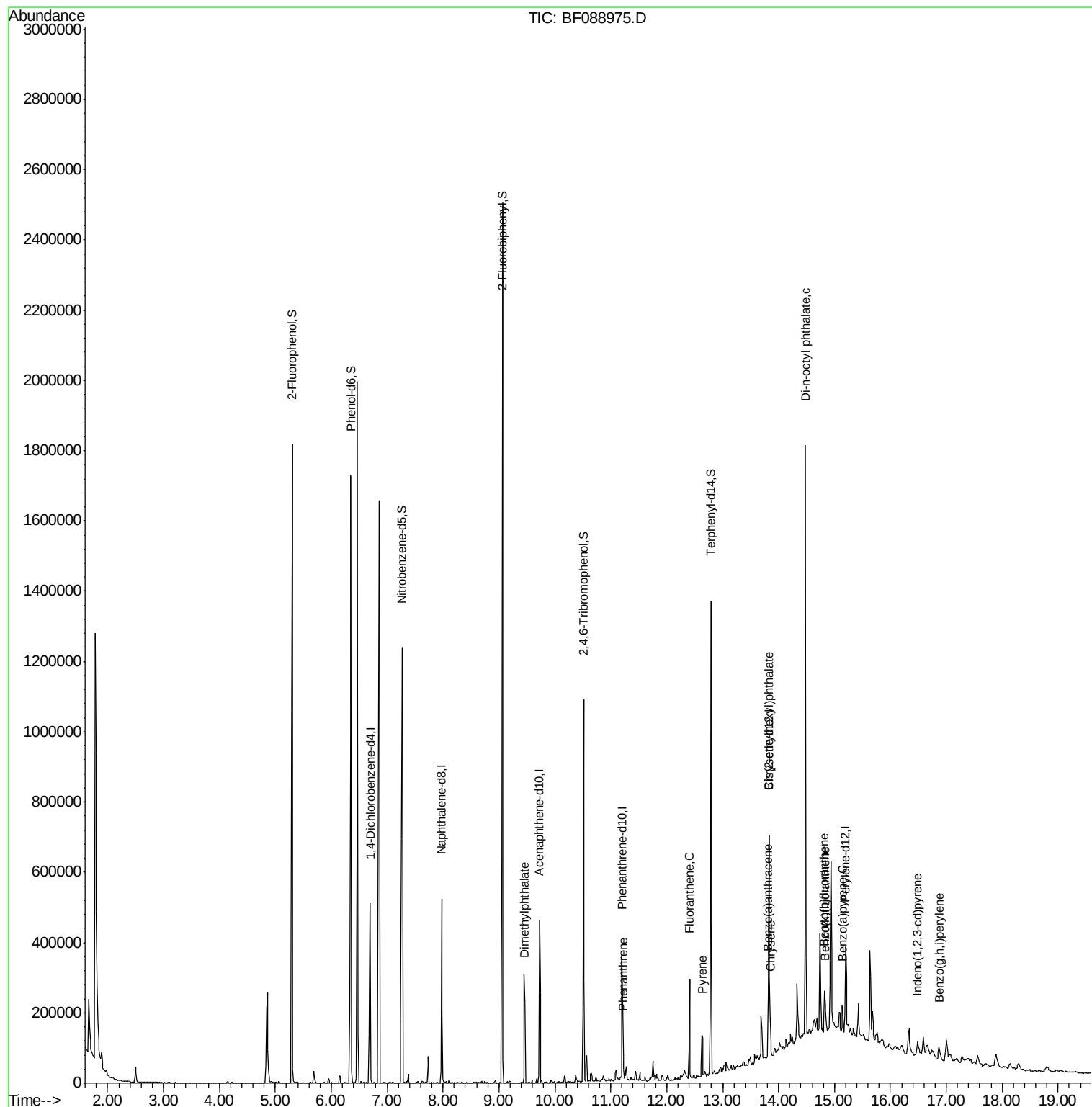
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071316\  
Data File : BF088975.D  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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M8-B3(0-5)C

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 447

Delta R.T. 0.00 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

Instrument :

BNA\_F

ClientSampleId :

M8-B3(0-5)C

Tot Ion:152 Resp: 74770

Ion Ratio Lower Upper

152 100

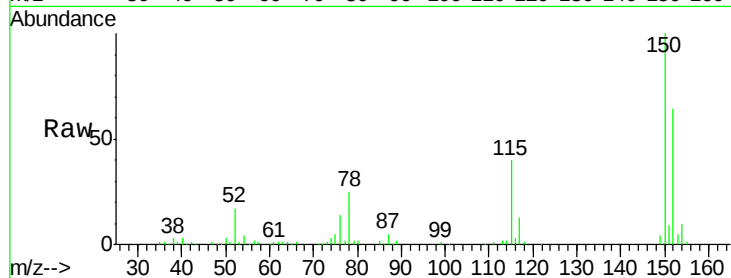
150 155.1 123.8 185.6

115 62.6 39.6 59.4#

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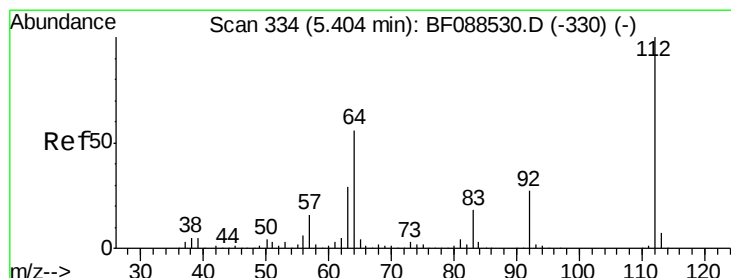
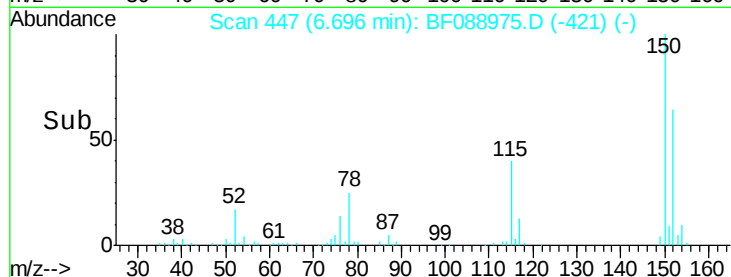
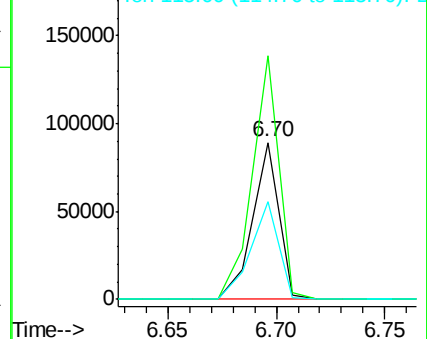
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 116.15 ng

RT: 5.30 min Scan# 325

Delta R.T. 0.01 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

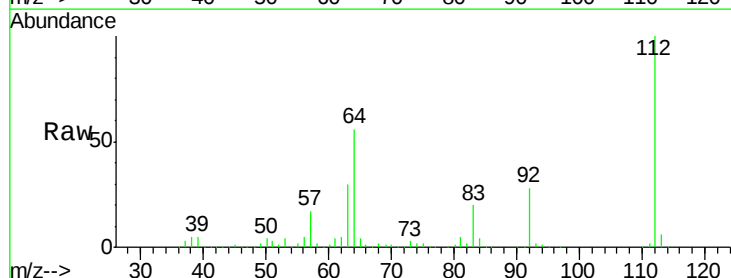
Tgt Ion:112 Resp: 579456

Ion Ratio Lower Upper

112 100

64 55.9 42.2 63.2

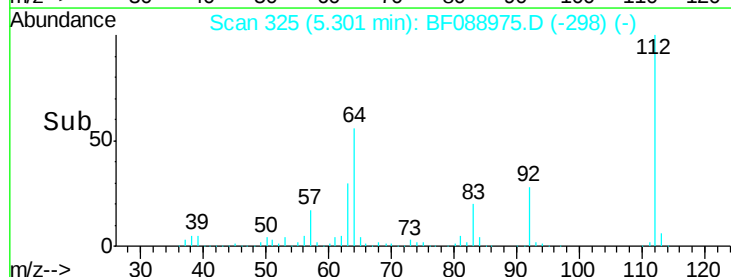
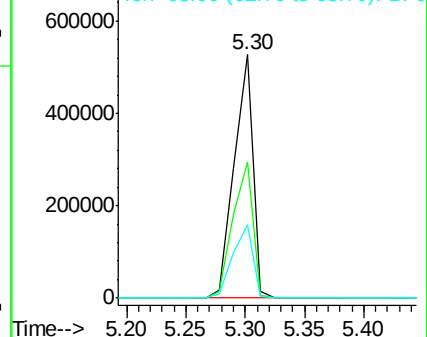
63 30.4 21.8 32.8

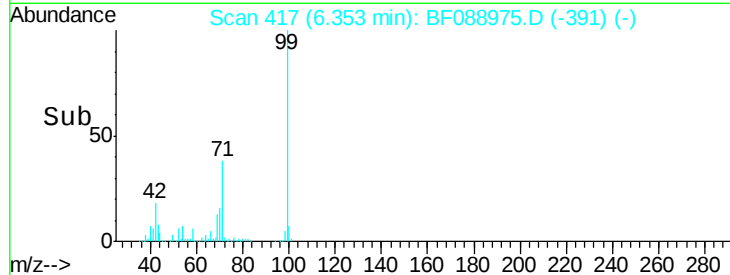
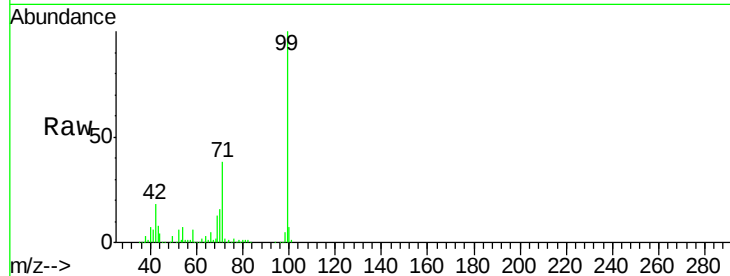


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 111.60 ng

RT: 6.35 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 719449 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.9  | 12.2  | 18.2   |
| 71       | 38.4  | 23.4  | 35.0   |

Instrument :

BNA\_F

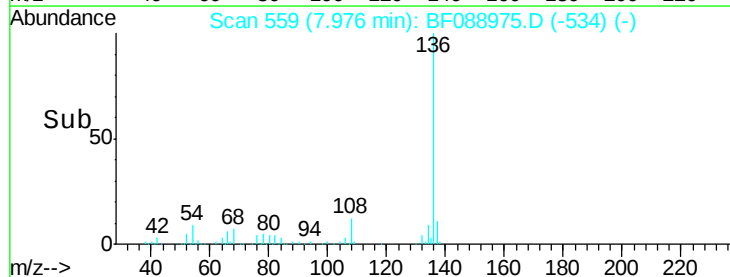
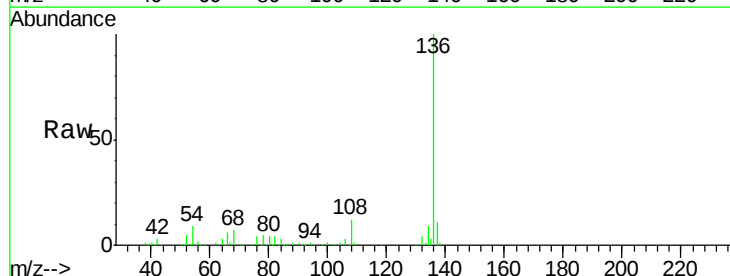
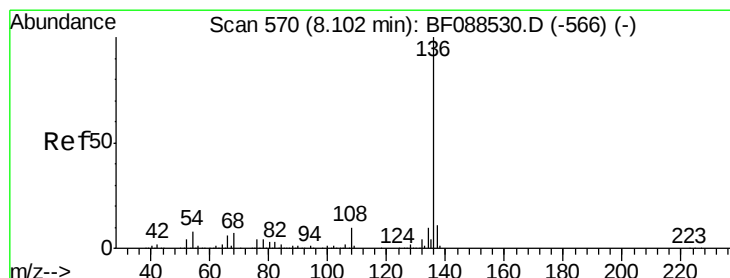
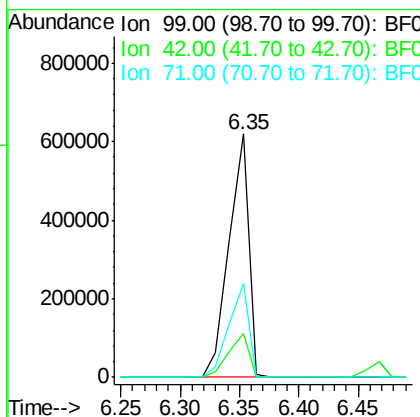
ClientSampleId :

M8-B3(0-5)C

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#21

Naphthalene-d8

Concen: 20.00 ng

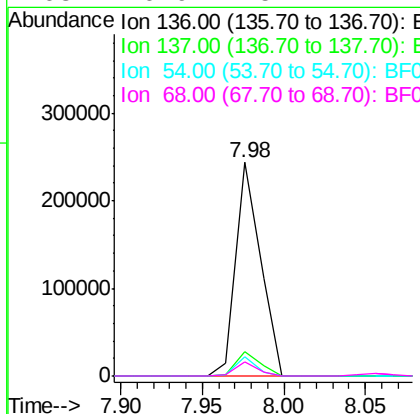
RT: 7.98 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 253697 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.1   | 13.7   |
| 54       | 8.8   | 6.6   | 10.0   |
| 68       | 6.9   | 5.1   | 7.7    |





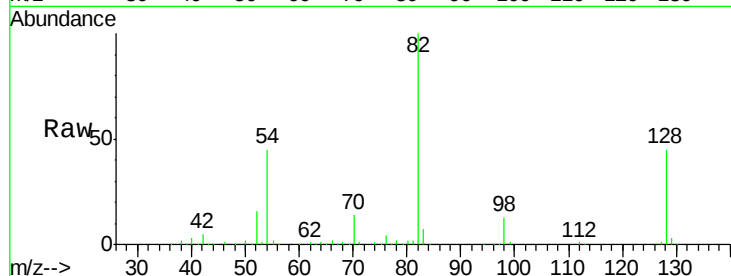
#23  
Nitrobenzene-d5  
Concen: 105.14 ng  
RT: 7.27 min Scan# 497  
Delta R.T. 0.00 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampled :  
M8-B3(0-5)C

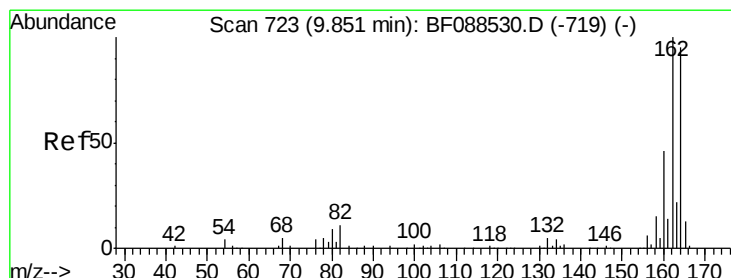
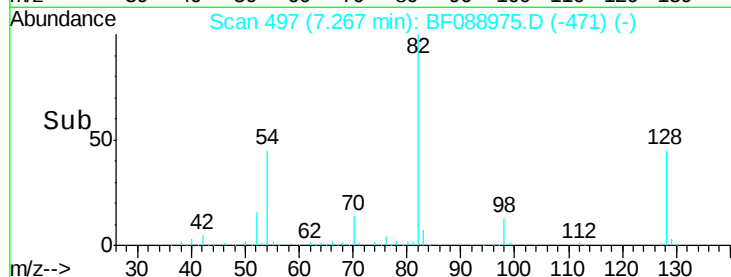
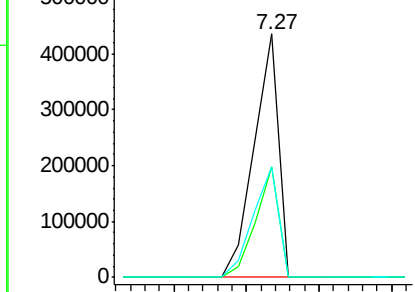
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 509019 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.2  | 35.9  | 53.9   |
| 54        | 45.3  | 40.9  | 61.3   |

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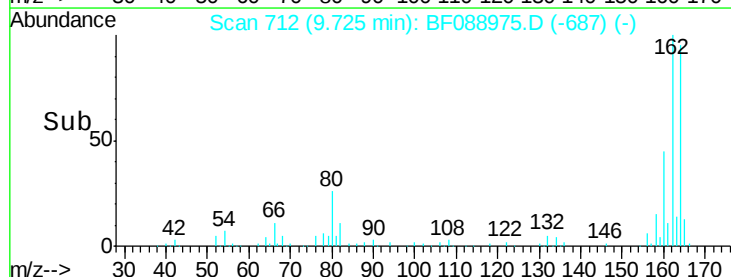
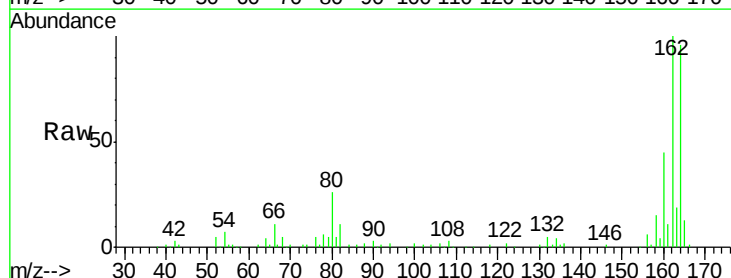
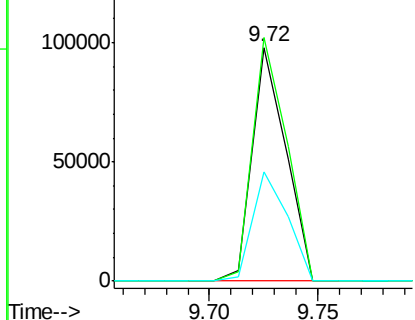
Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

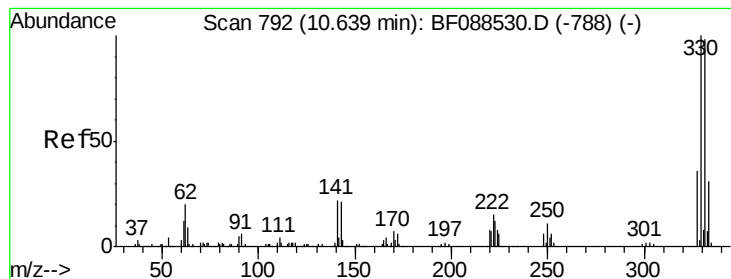


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.72 min Scan# 712  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 105156 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.1 | 85.4  | 128.2  |
| 160       | 46.8  | 39.5  | 59.3   |

Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





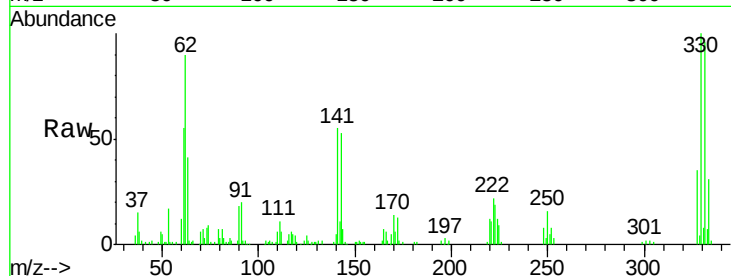
#41  
 2,4,6-Tribromophenol  
 Concen: 130.61 ng  
 RT: 10.51 min Scan# 781  
 Delta R.T. -0.01 min  
 Lab File: BF088975.D  
 Acq: 13 Jul 2016 23:36

Instrument :  
 BNA\_F  
 ClientSampled :  
 M8-B3(0-5)C

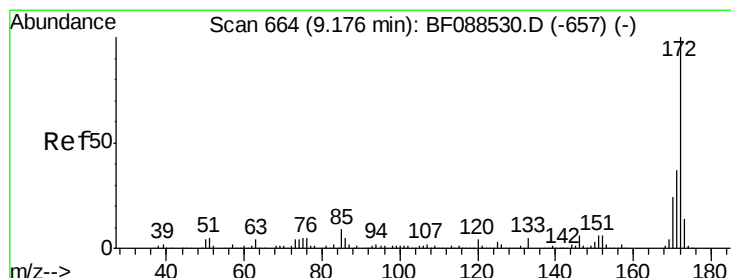
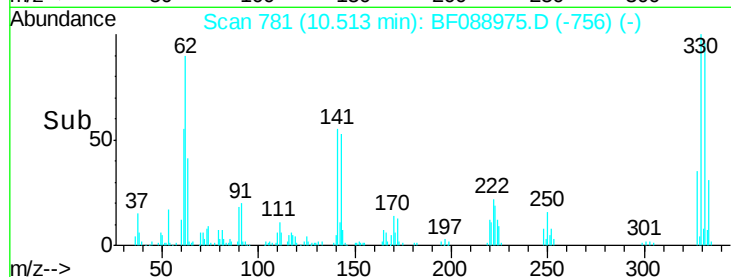
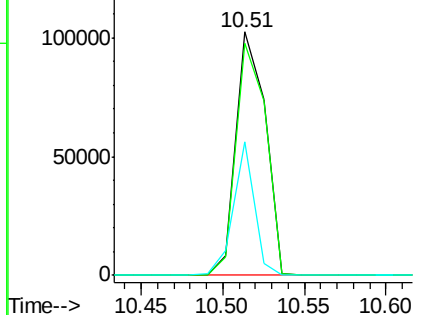
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 127534 |       |       |
| 332     | 96.9  | 0.0    | 0.0   | 0.0   |
| 141     | 38.9  | 0.0    | 0.0   | 0.0   |

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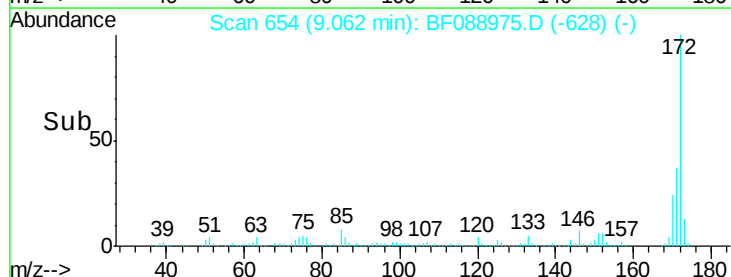
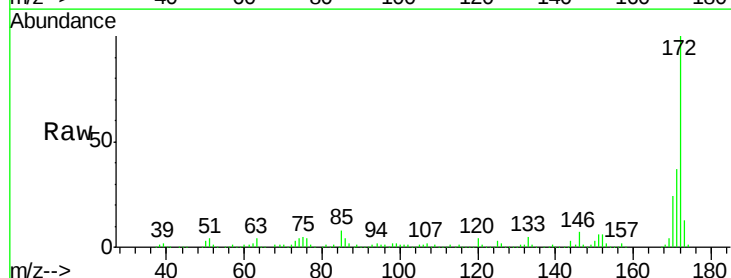
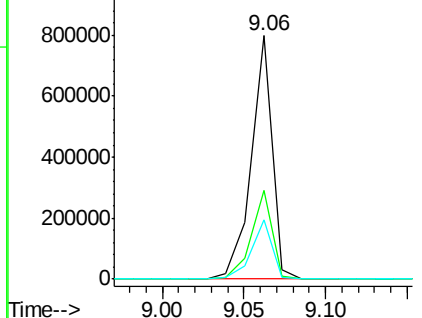
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 106.56 ng  
 RT: 9.06 min Scan# 654  
 Delta R.T. 0.00 min  
 Lab File: BF088975.D  
 Acq: 13 Jul 2016 23:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 709368 |       |       |
| 171     | 36.5  | 28.6   | 43.0  |       |
| 170     | 24.2  | 19.2   | 28.8  |       |

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





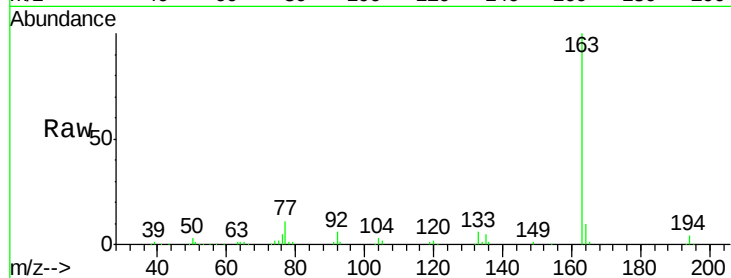
#49  
Dimethylphthalate  
Concen: 23.16 ng  
RT: 9.46 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampleId :  
M8-B3(0-5)C

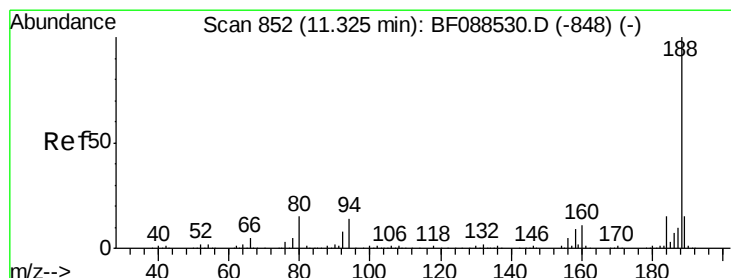
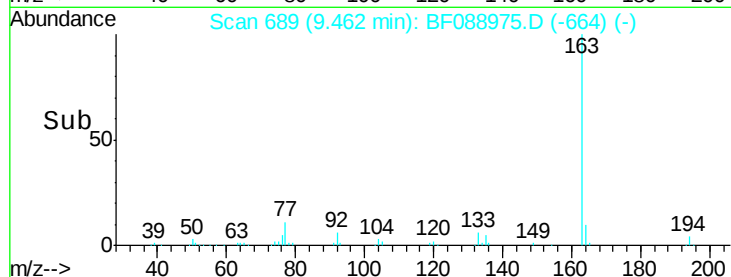
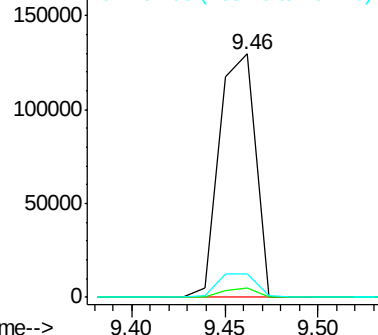
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 173513 |       |       |
| 194     | 4.1   |        | 2.8   | 4.2   |
| 164     | 9.6   |        | 8.3   | 12.5  |

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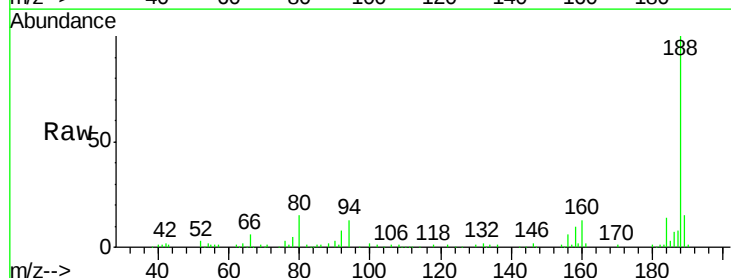


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

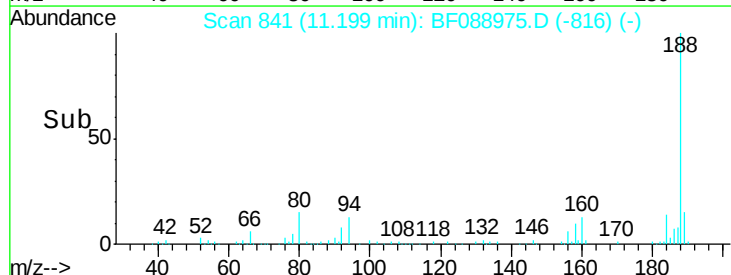
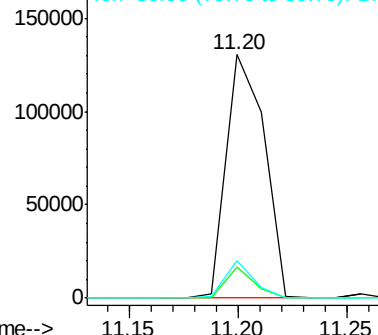


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.20 min Scan# 841  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 159803 |       |       |
| 94      | 13.0  |        | 9.0   | 13.6  |
| 80      | 15.3  |        | 10.0  | 15.0# |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0





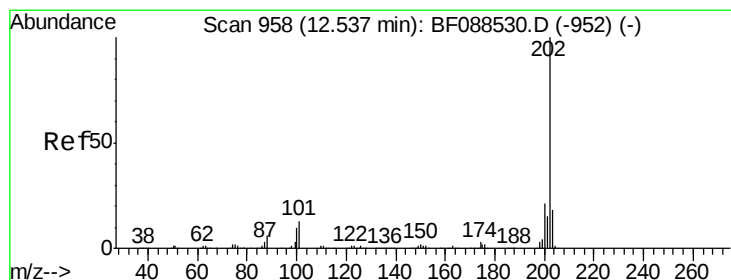
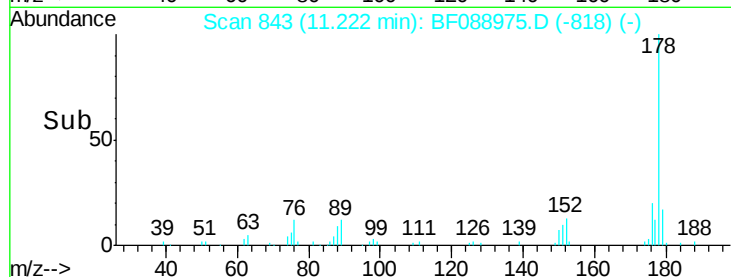
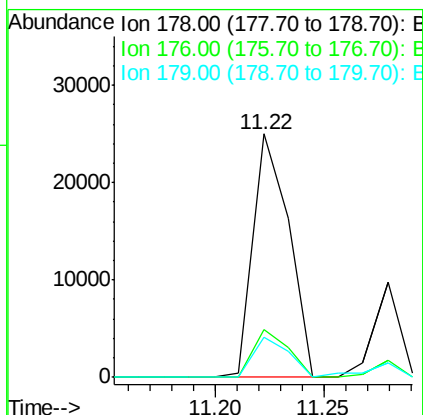
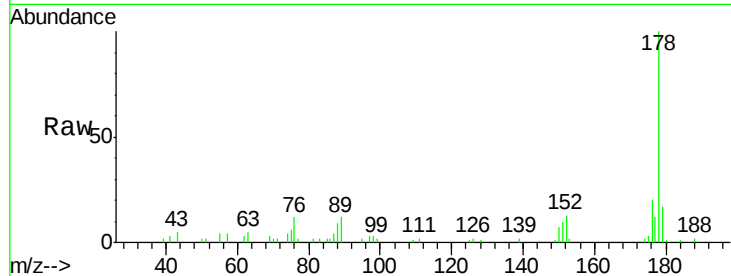
#70  
Phenanthrene  
Concen: 3.28 ng  
RT: 11.22 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampleId :  
M8-B3(0-5)C

Tot Ion:178 Resp: 28631  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.8 23.6  
179 16.7 13.0 19.4

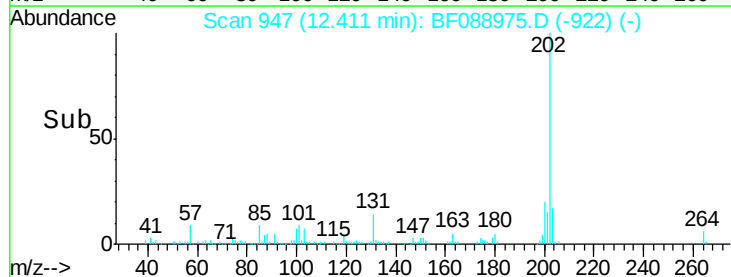
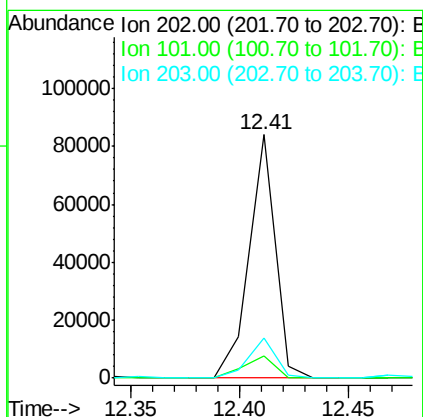
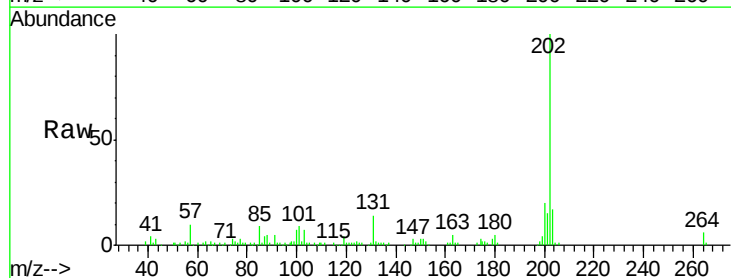
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#74  
Fluoranthene  
Concen: 7.92 ng  
RT: 12.41 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
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Tgt Ion:202 Resp: 70101  
Ion Ratio Lower Upper  
202 100  
101 9.3 0.0 33.1  
203 16.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

Instrument :

BNA\_F

ClientSampleId :

M8-B3(0-5)C

Tot Ion:240 Resp: 132409

Ion Ratio Lower Upper

240 100

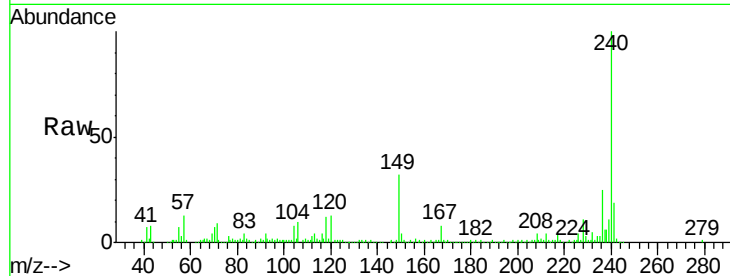
120 13.1 6.8 10.2#

236 25.0 20.2 30.2

Manual Integrations

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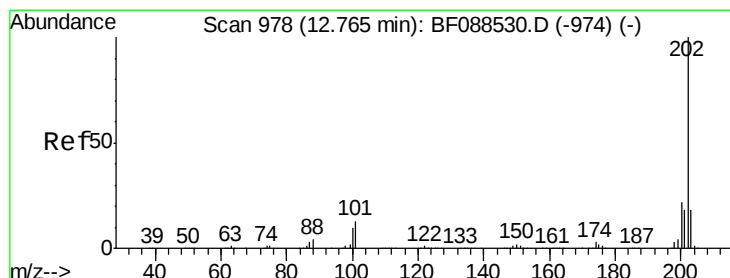
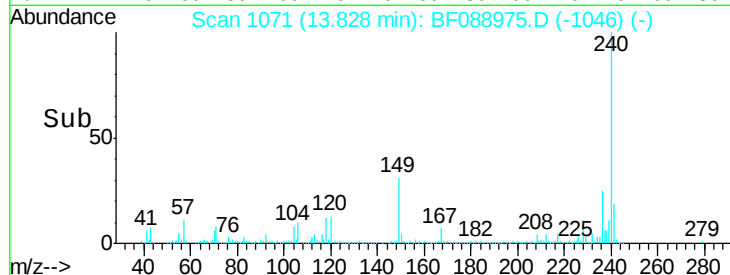
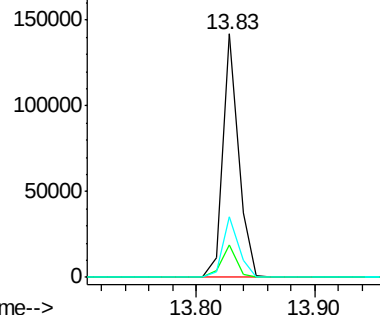
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 5.43 ng

RT: 12.64 min Scan# 967

Delta R.T. 0.00 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

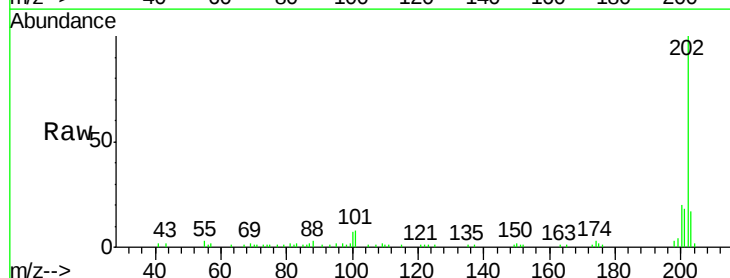
Tgt Ion:202 Resp: 60961

Ion Ratio Lower Upper

202 100

200 19.9 17.4 26.2

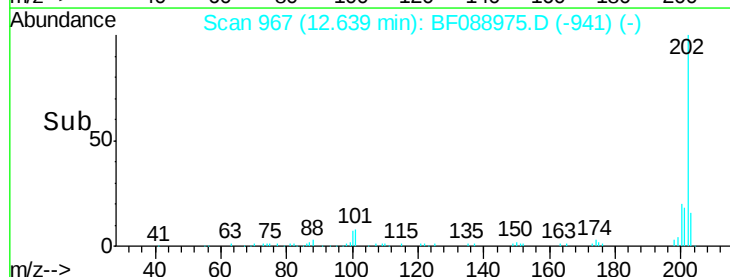
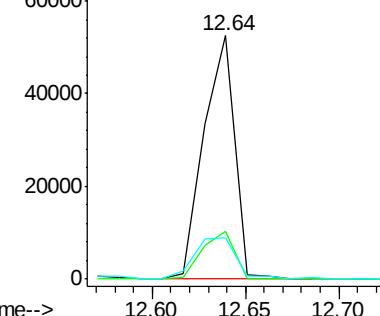
203 17.0 14.5 21.7



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





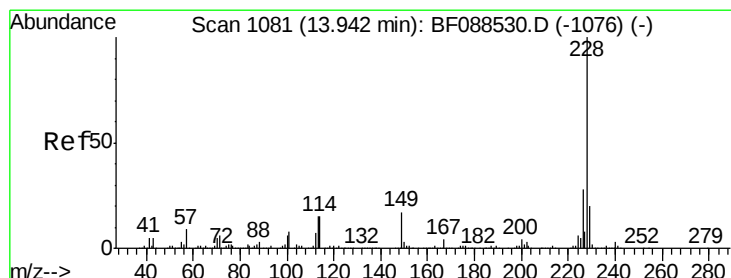
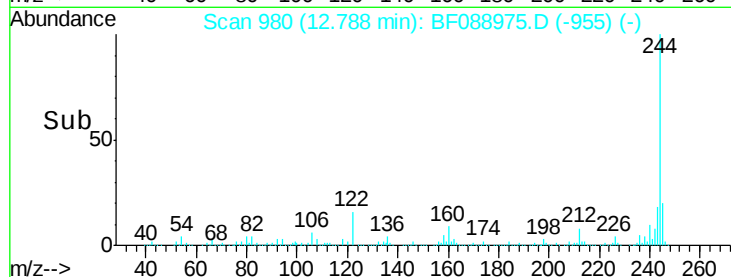
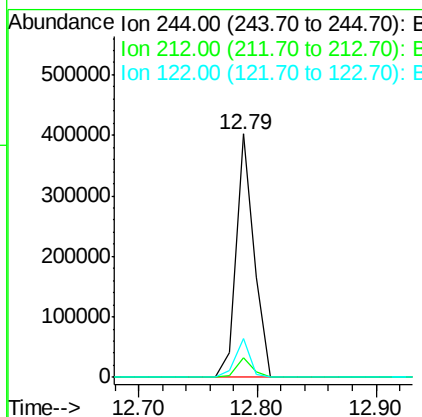
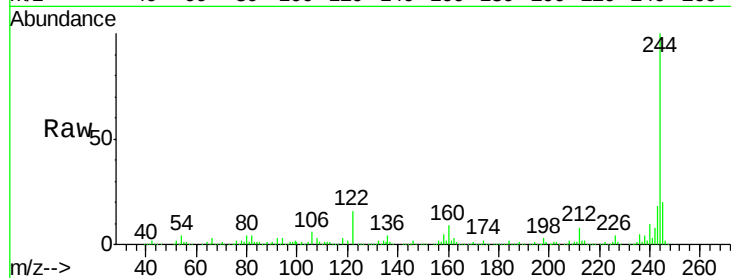
#78  
 Terphenyl-d14  
 Concen: 70.49 ng  
 RT: 12.79 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: BF088975.D  
 Acq: 13 Jul 2016 23:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M8-B3(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.1   | 6.0   | 9.0   |
| 122     | 15.9  | 11.2  | 16.8  |

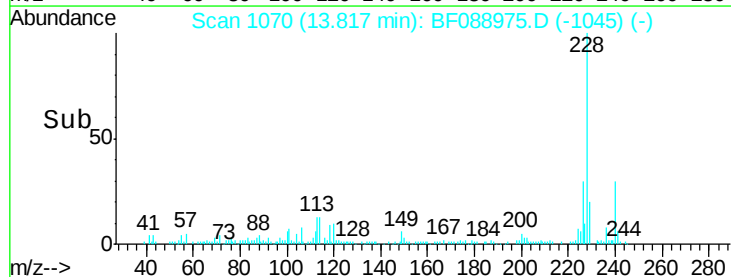
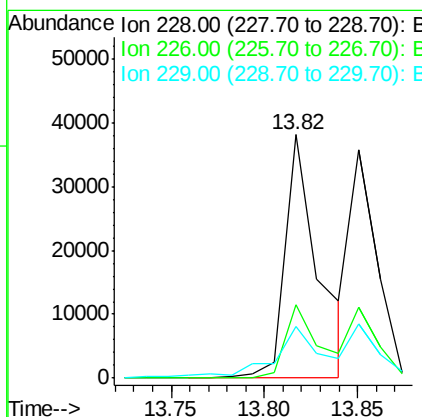
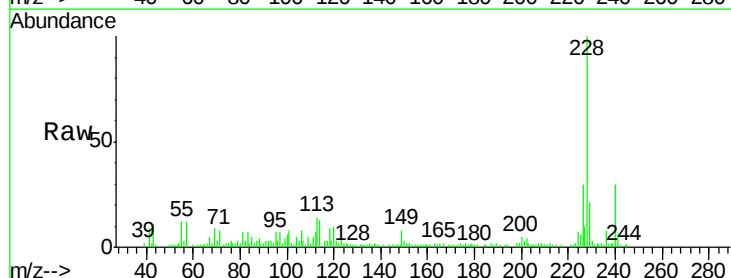
Manual Integrations

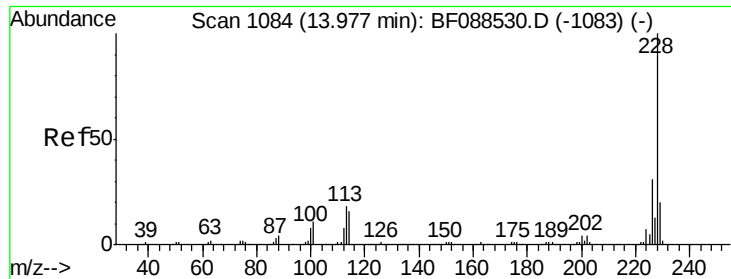
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 Sohil  
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#80  
 Benzo(a)anthracene  
 Concen: 5.58 ng  
 RT: 13.82 min Scan# 1070  
 Delta R.T. -0.01 min  
 Lab File: BF088975.D  
 Acq: 13 Jul 2016 23:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 22.3  | 33.5  |
| 229     | 21.1  | 16.0  | 24.0  |





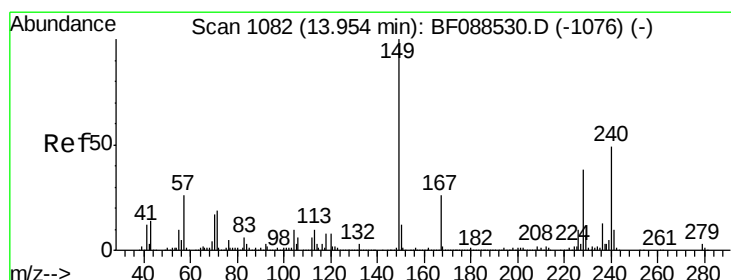
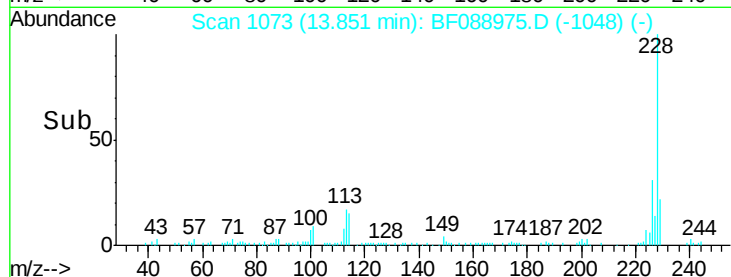
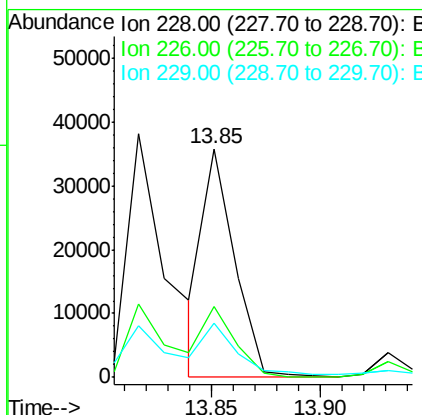
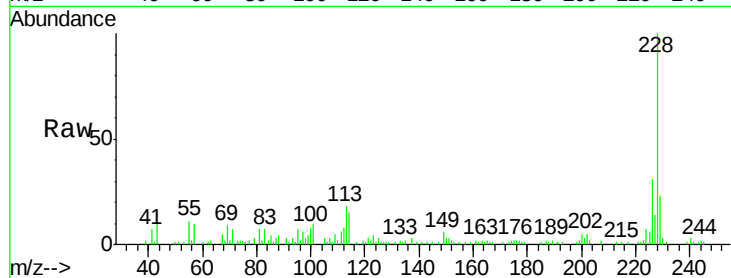
#82  
Chrysene  
Concen: 4.32 ng  
RT: 13.85 min Scan# 1073  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampled :  
M8-B3(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 25.4  | 38.2  |
| 229     | 23.5  | 16.3  | 24.5  |

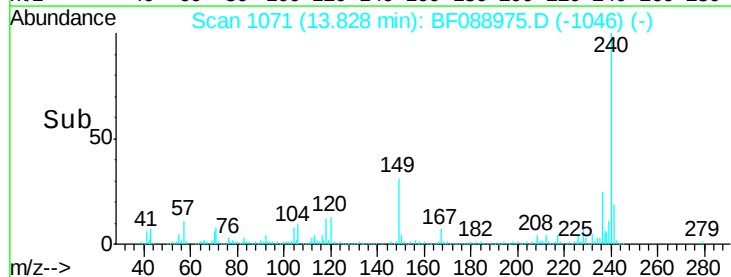
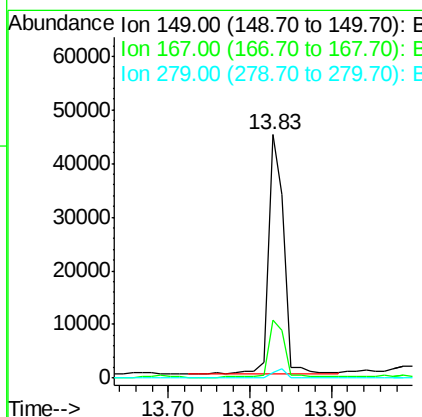
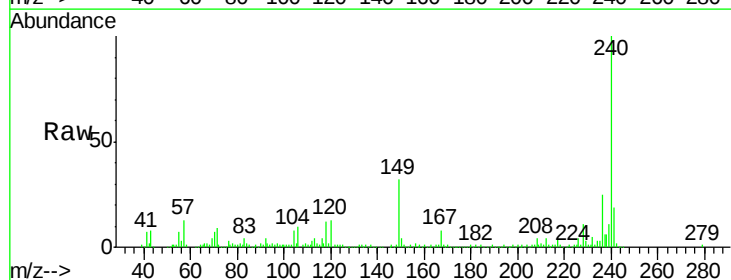
Manual Integrations

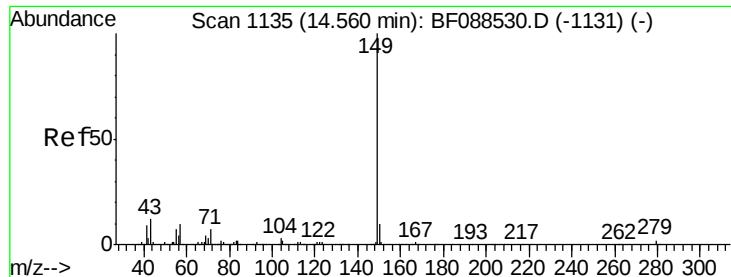
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#83  
Bis(2-ethylhexyl)phthalate  
Concen: 10.27 ng  
RT: 13.83 min Scan# 1071  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 23.9  | 20.5  | 30.7  |
| 279     | 2.2   | 2.0   | 3.0   |





#84

Di-n-octyl phthalate

Concen: 16.11 ng

RT: 14.48 min Scan# 1128

Delta R.T. 0.03 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

Instrument :

BNA\_F

ClientSampleId :

M8-B3(0-5)C

Tot Ion:149 Resp: 156468

Ion Ratio Lower Upper

149 100

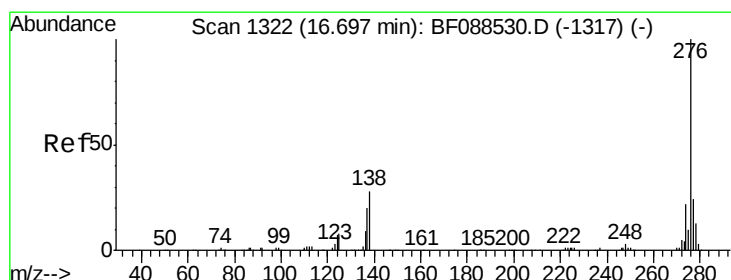
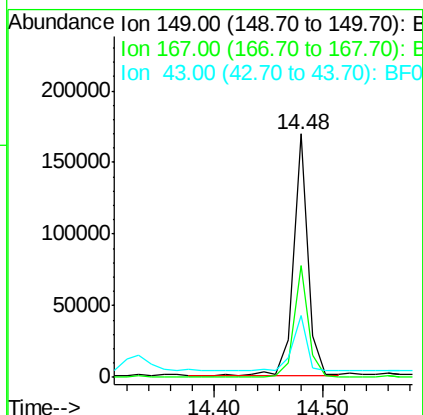
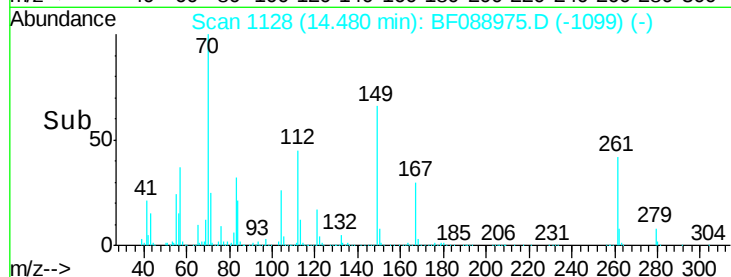
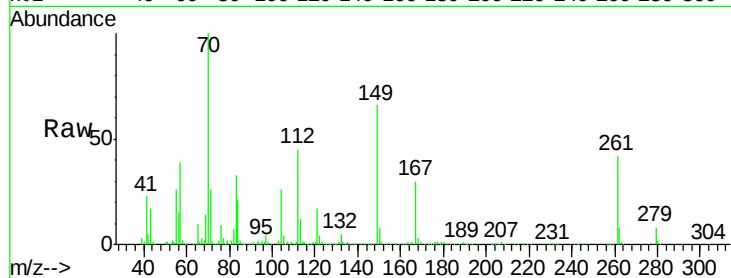
167 45.4 0.0 0.0#

43 23.6 0.0 0.0#

Manual Integrations

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.94 ng

RT: 16.48 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF088975.D

Acq: 13 Jul 2016 23:36

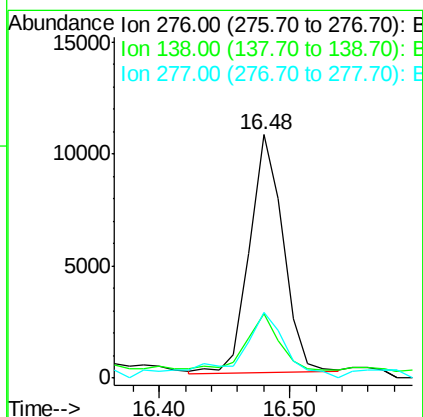
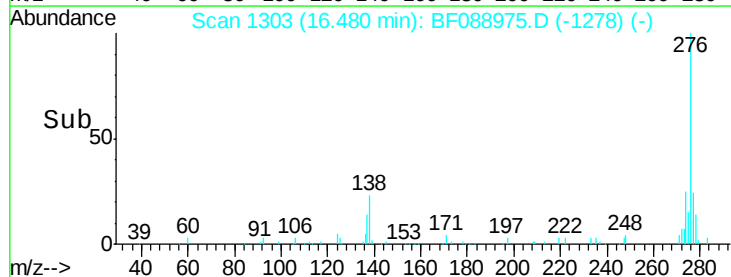
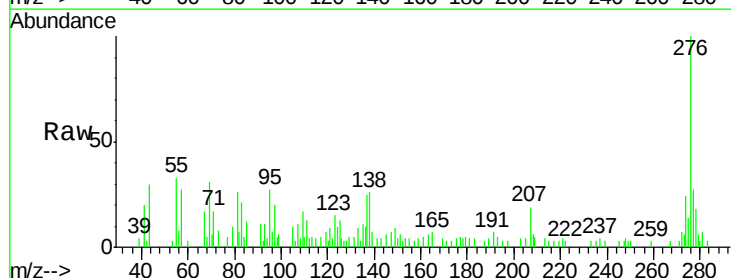
Tgt Ion:276 Resp: 19048

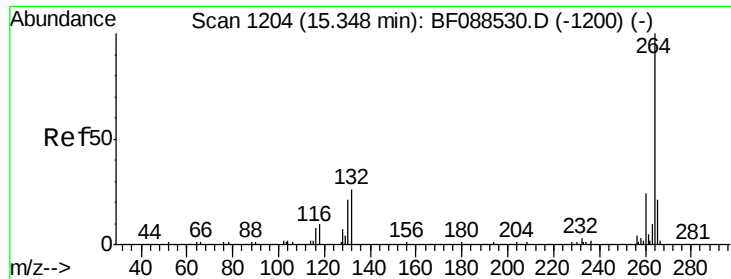
Ion Ratio Lower Upper

276 100

138 22.9 0.0 0.0#

277 40.1 0.0 0.0#





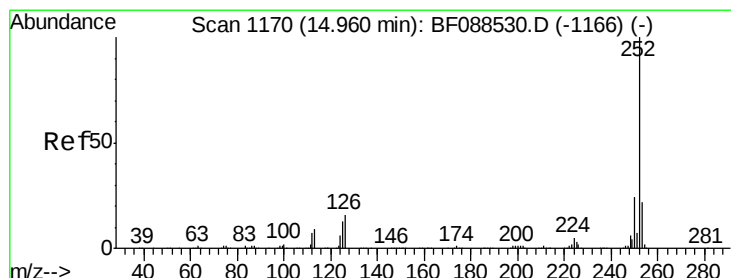
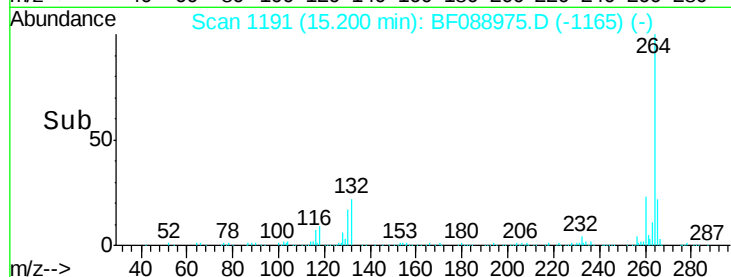
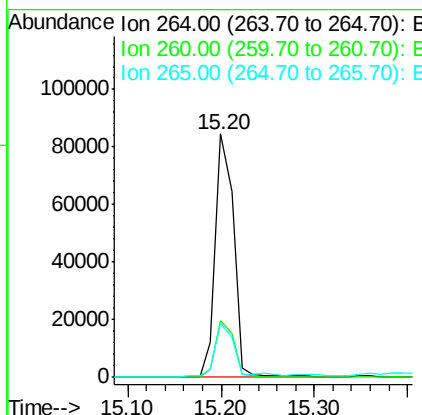
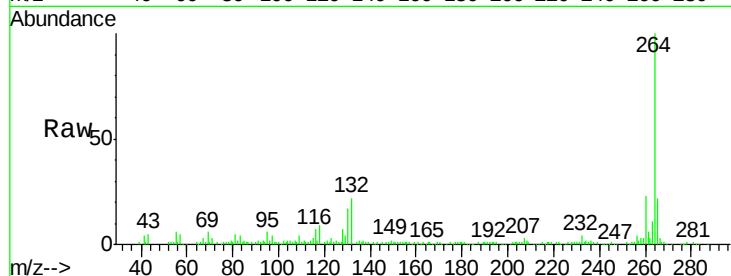
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.20 min Scan# 1191  
Delta R.T. 0.00 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampleId :  
M8-B3(0-5)C

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 264     | 100  |       |       |       |
| 260     | 23.1 | 19.2  | 28.8  |       |
| 265     | 22.0 | 16.9  | 25.3  |       |

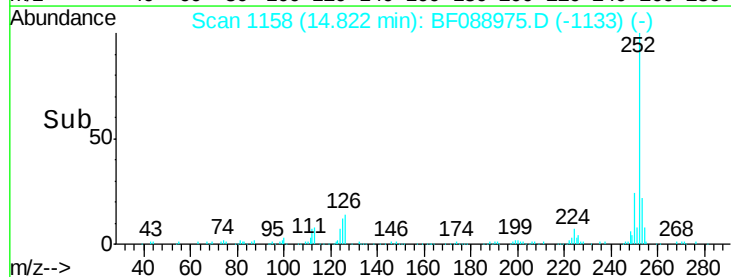
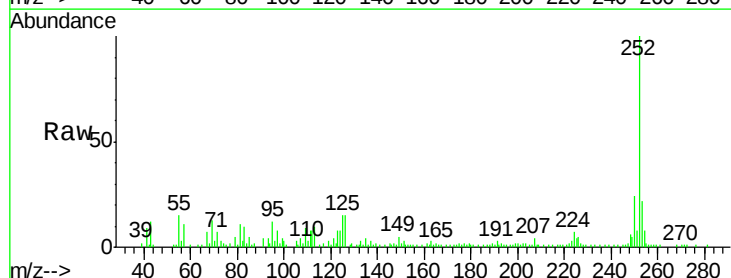
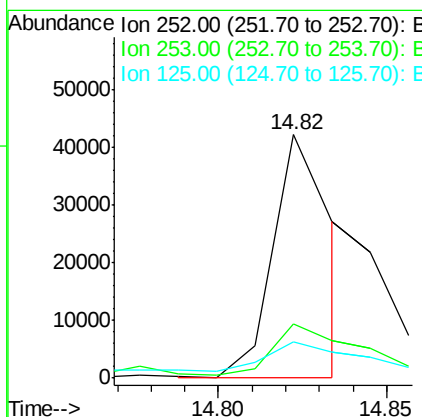
Manual Integrations

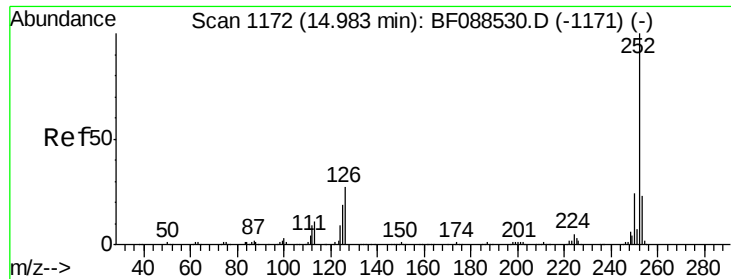
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#87  
Benzo(b)fluoranthene  
Concen: 7.10 ng m  
RT: 14.82 min Scan# 1158  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 252     | 100  |       |       |       |
| 253     | 22.1 | 17.4  | 26.2  |       |
| 125     | 14.7 | 7.1   | 10.7# |       |





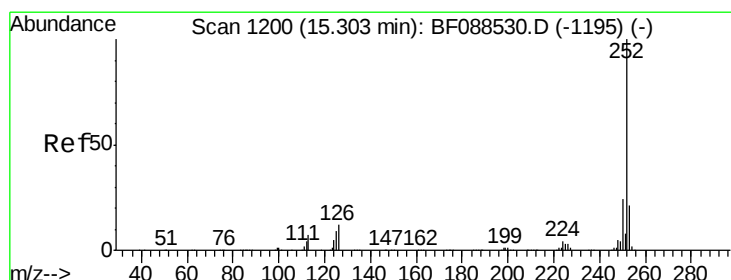
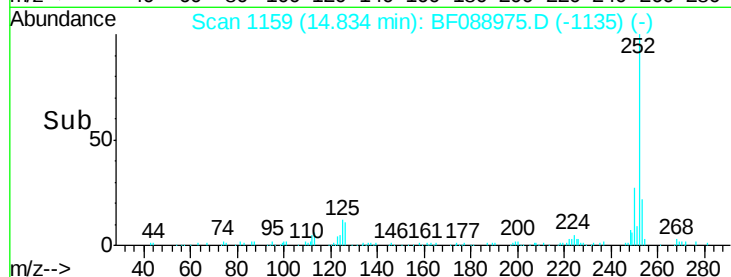
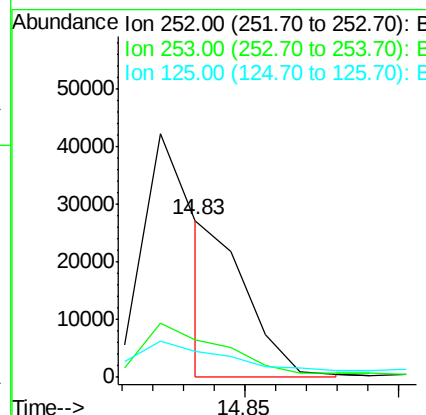
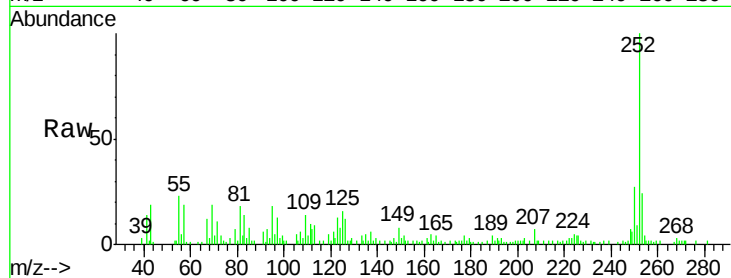
#88  
Benzo(k)fluoranthene  
Concen: 3.34 ng m  
RT: 14.83 min Scan# 1159  
Delta R.T. -0.02 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

Instrument :  
BNA\_F  
ClientSampleId :  
M8-B3(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 18.0  | 27.0  |
| 125     | 16.4  | 11.2  | 16.8  |

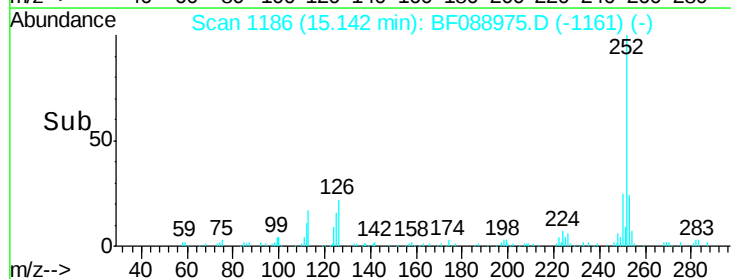
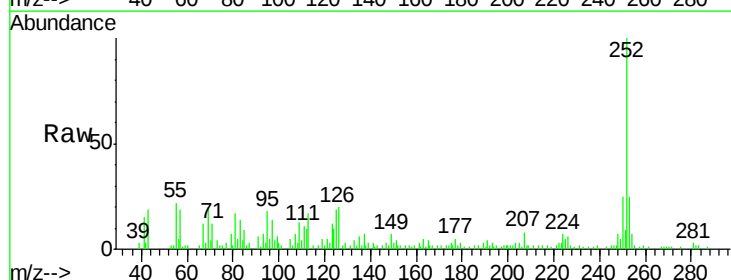
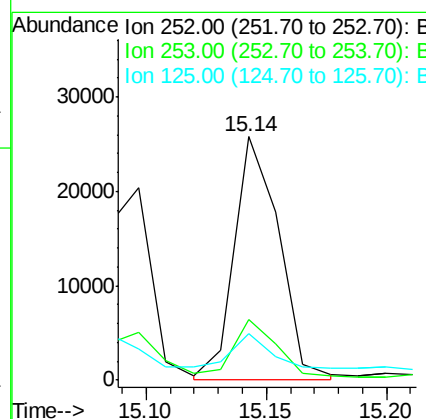
Manual Integrations

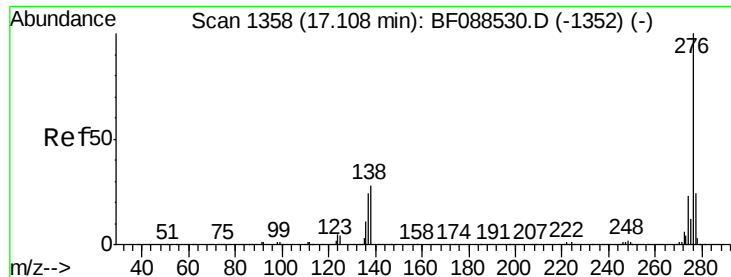
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#89  
Benzo(a)pyrene  
Concen: 5.46 ng m  
RT: 15.14 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF088975.D  
Acq: 13 Jul 2016 23:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 17.9  | 26.9  |
| 125     | 19.0  | 12.5  | 18.7  |





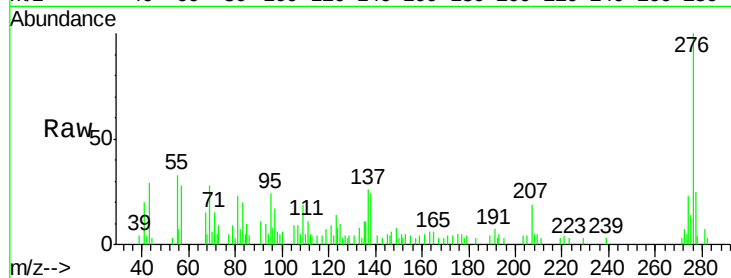
#91  
 Benzo(a,h,i)perylene  
 Concen: 3.80 ng  
 RT: 16.87 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: BF088975.D  
 Acq: 13 Jul 2016 23:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M8-B3(0-5)C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 20168 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.6  | 18.9  | 28.3  |
| 138       | 24.3  | 21.4  | 32.2  |

#### Manual Integrations

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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

