

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113016\  
 Data File : BF091356.D  
 Acq On : 30 Nov 2016 16:05  
 Operator : UM/SJ  
 Sample : H5749-07  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-MM4-4

Manual Integrations  
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Quant Time: Dec 01 00:34:10 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 29 13:33:46 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 232559   | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8          | 8.15  | 136  | 961832   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10        | 9.90  | 164  | 461621   | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10        | 11.38 | 188  | 690876   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12            | 14.01 | 240  | 518411   | 20.00  | ng    | -0.03       |
| 86) Perylene-d12            | 15.45 | 264  | 451880   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.48  | 112  | 1758317  | 123.51 | ng    | 0.00        |
| 7) Phenol-d6                | 6.50  | 99   | 2589321  | 147.76 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 1480127  | 86.24  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 482741   | 110.46 | ng    | -0.02       |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 2426691  | 95.18  | ng    | 0.00        |
| 78) Terphenyl-d14           | 12.97 | 244  | 1753367  | 73.51  | ng    | -0.02       |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.52  | 94   | 97232    | 4.72   | ng    | Qvalue # 71 |
| 49) Dimethylphthalate       | 9.61  | 163  | 226812   | 8.11   | ng    | 98          |
| 70) Phenanthrene            | 11.41 | 178  | 431713   | 12.03  | ng    | 99          |
| 71) Anthracene              | 11.45 | 178  | 132734   | 3.73   | ng    | 97          |
| 74) Fluoranthene            | 12.60 | 202  | 628798   | 18.49  | ng    | 97          |
| 77) Pyrene                  | 12.81 | 202  | 538806   | 13.70  | ng    | 96          |
| 80) Benzo(a)anthracene      | 14.00 | 228  | 361807   | 11.93  | ng    | 98          |
| 82) Chrysene                | 14.04 | 228  | 230208   | 7.67   | ng    | 96          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.85 | 276  | 85201    | 3.10   | ng    | # 89        |
| 87) Benzo(b)fluoranthene    | 15.03 | 252  | 324924m  | 11.57  | ng    |             |
| 88) Benzo(k)fluoranthene    | 15.05 | 252  | 69098m   | 2.93   | ng    |             |
| 89) Benzo(a)pyrene          | 15.39 | 252  | 197329m  | 7.82   | ng    |             |
| 91) Benzo(a,h,i)perylene    | 17.26 | 276  | 74081    | 3.08   | ng    | 96          |

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

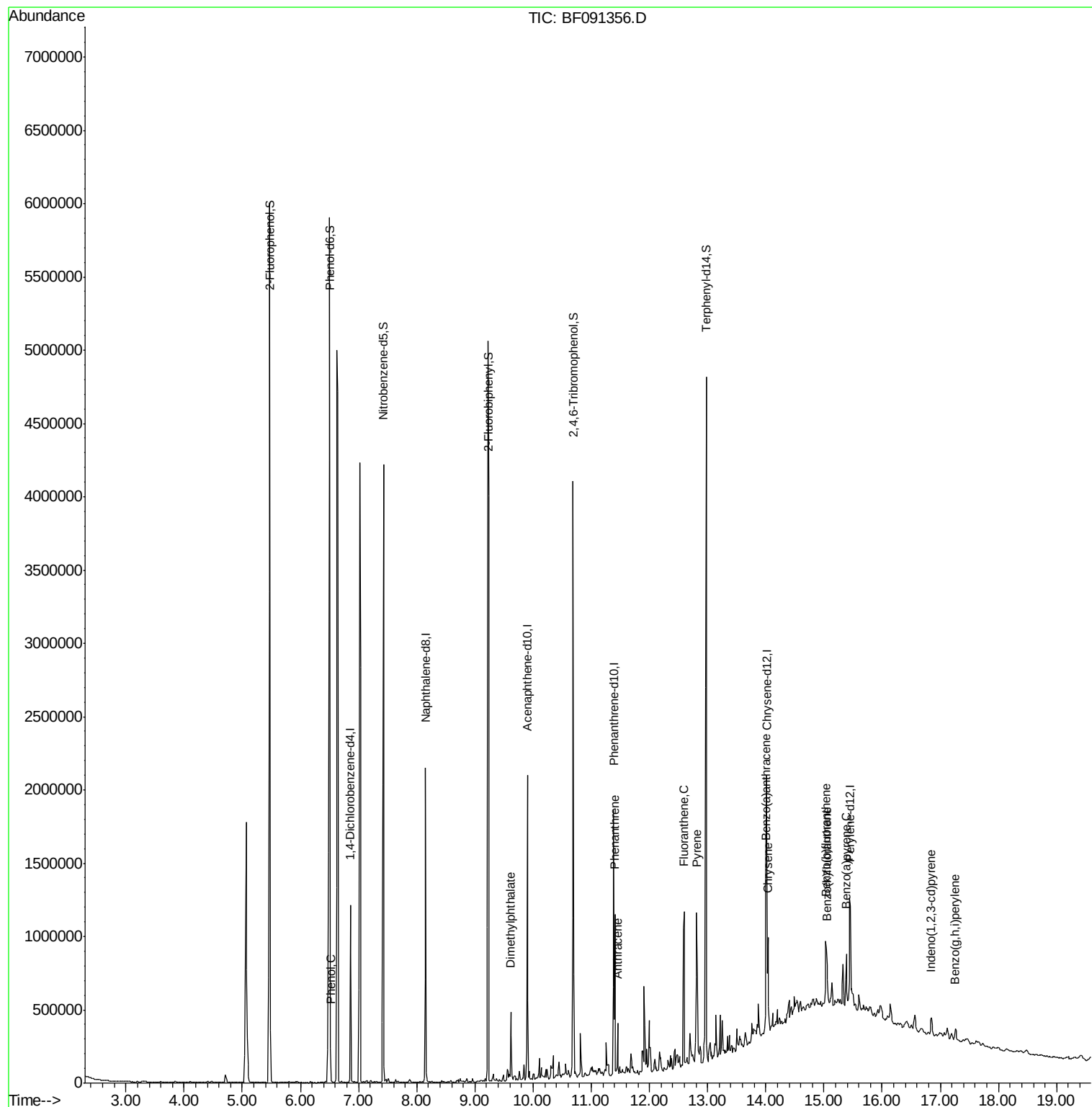
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113016\  
Data File : BF091356.D  
Acq On : 30 Nov 2016 16:05  
Operator : UM/SJ  
Sample : H5749-07  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

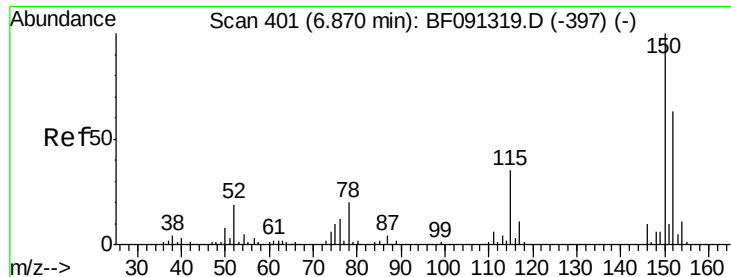
Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

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Quant Time: Dec 01 00:34:10 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 29 13:33:46 2016  
Response via : Initial Calibration





#1

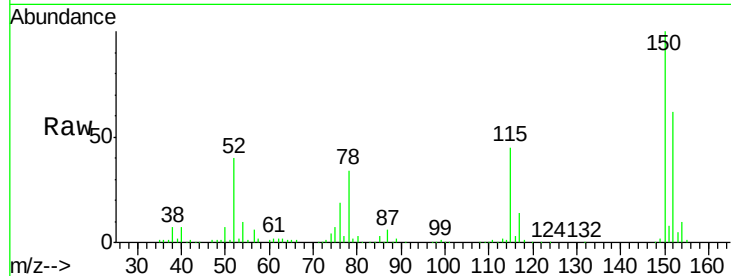
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.86 min Scan# 400  
Delta R.T. -0.02 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

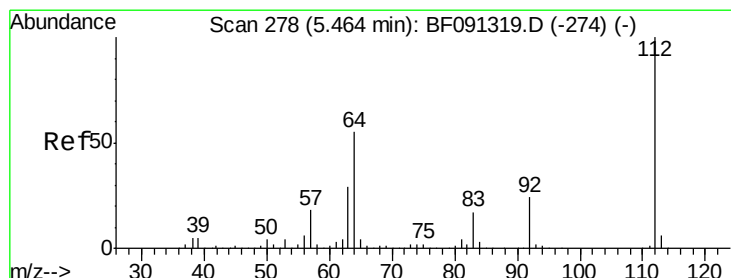
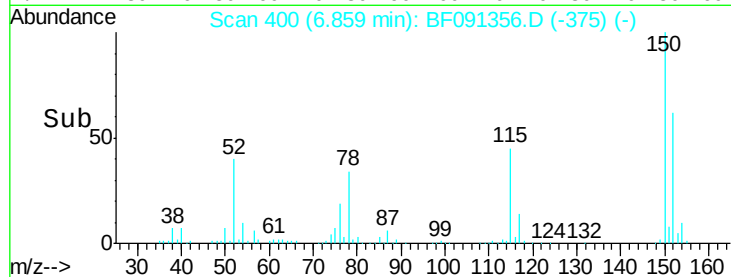
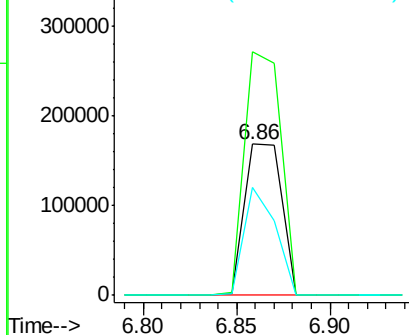
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.2 | 122.5 | 183.7 |
| 115     | 71.8  | 51.8  | 77.8  |

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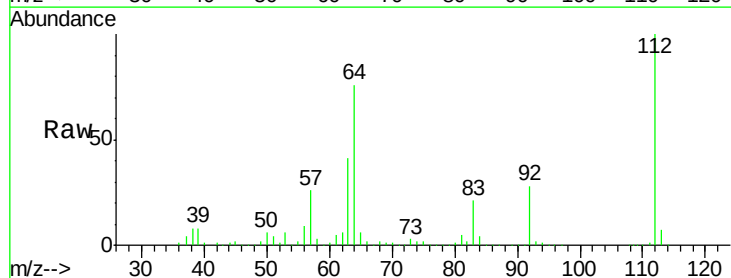
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



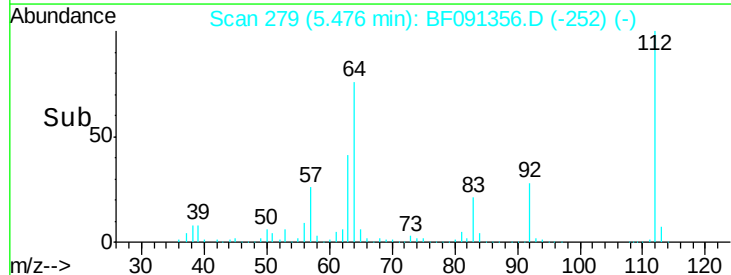
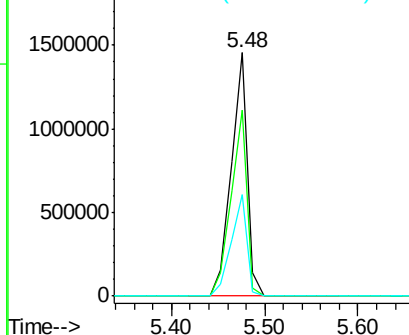
#5

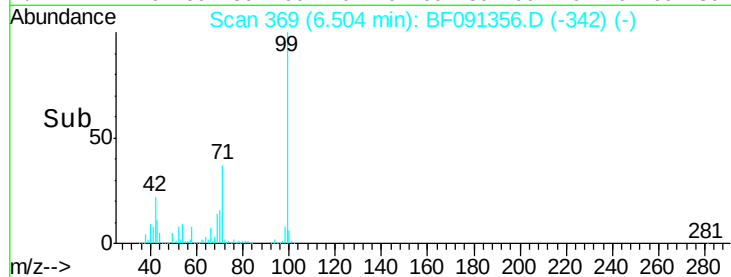
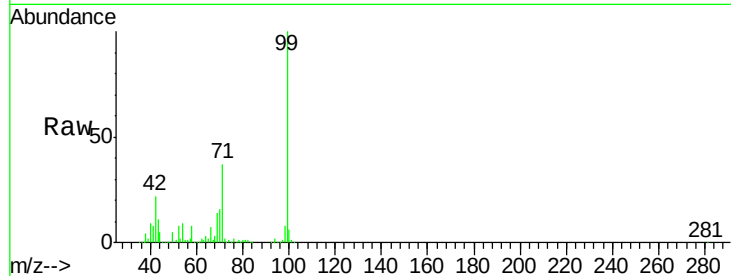
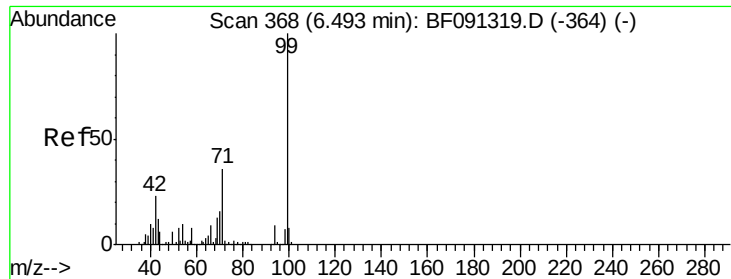
2-Fluorophenol  
Concen: 123.51 ng  
RT: 5.48 min Scan# 279  
Delta R.T. 0.01 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.2  | 61.5  | 92.3  |
| 63      | 41.5  | 33.3  | 49.9  |



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: 147.76 ng

RT: 6.50 min Scan# 369

Delta R.T. 0.01 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 99    | Resp: | 2589321 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 21.9  | 20.6  | 31.0    |
| 71       | 36.6  | 29.9  | 44.9    |

Instrument :

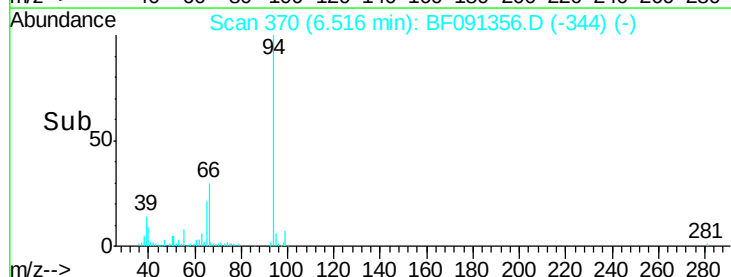
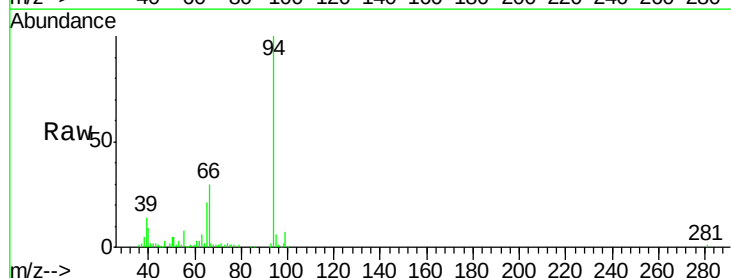
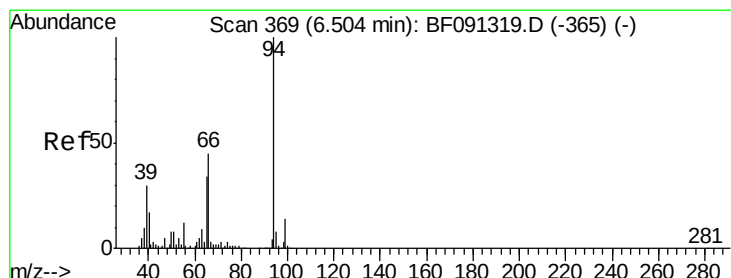
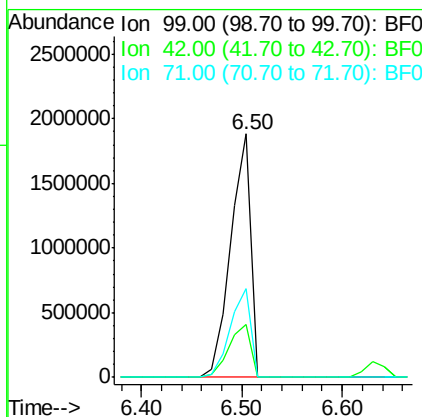
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ClientSampleId :

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#10

Phenol

Concen: 4.72 ng

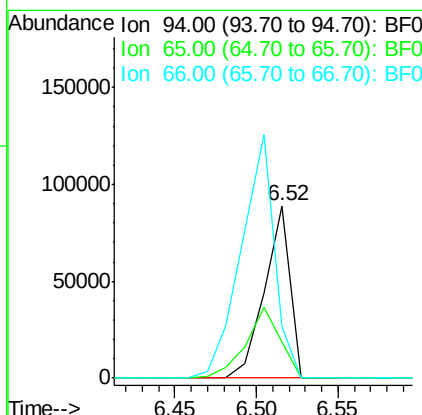
RT: 6.52 min Scan# 370

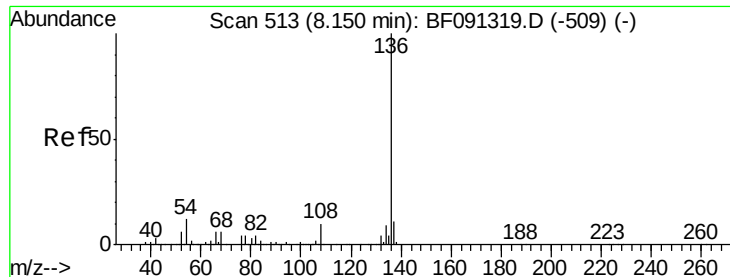
Delta R.T. -0.01 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 97232 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 20.8  | 16.9  | 56.9  |
| 66       | 29.6  | 30.6  | 70.6# |





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

Instrument :

BNA\_F

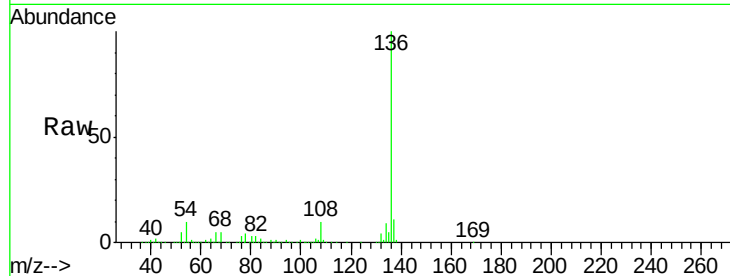
ClientSampleId :

GRID-MM4-4

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 136     | 100   |            |            |
| 137     | 11.2  | 9.1        | 13.7       |
| 54      | 9.9   | 9.1        | 13.7       |
| 68      | 5.0   | 5.9        | 8.9#       |

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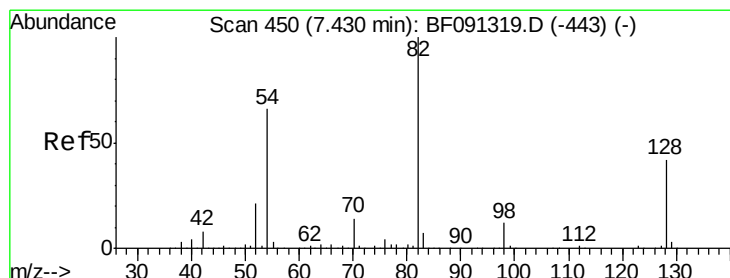
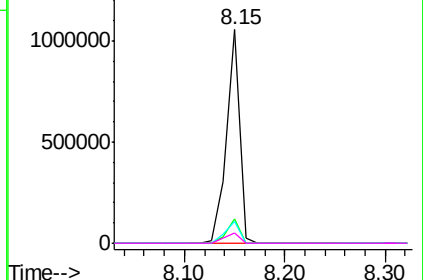
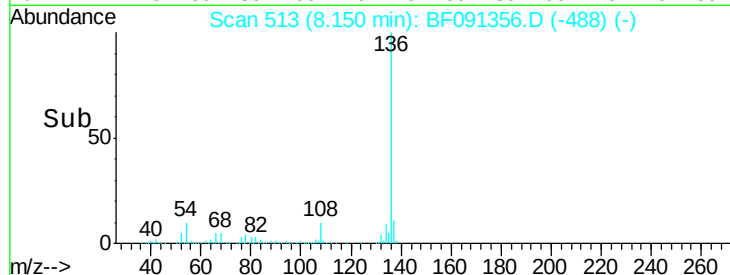


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 86.24 ng

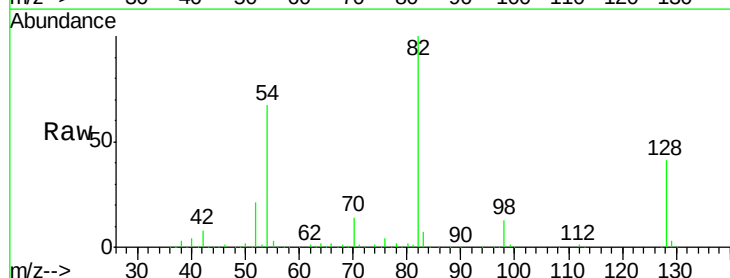
RT: 7.43 min Scan# 450

Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

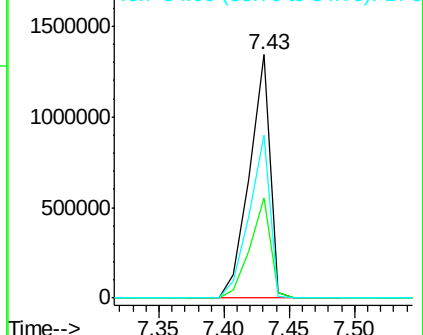
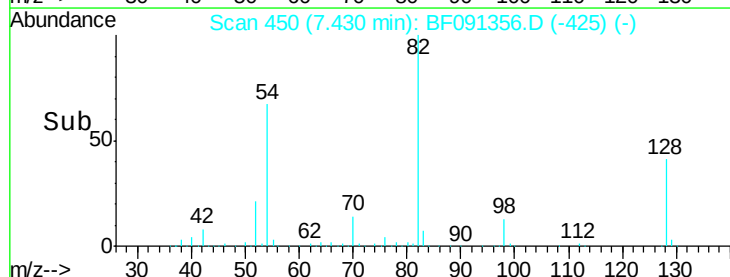
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 41.0  | 31.8       | 47.6       |
| 54      | 66.8  | 49.1       | 73.7       |

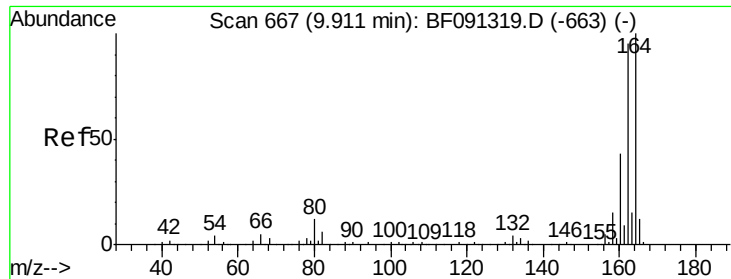


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.90 min Scan# 666

Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

Instrument :

BNA\_F

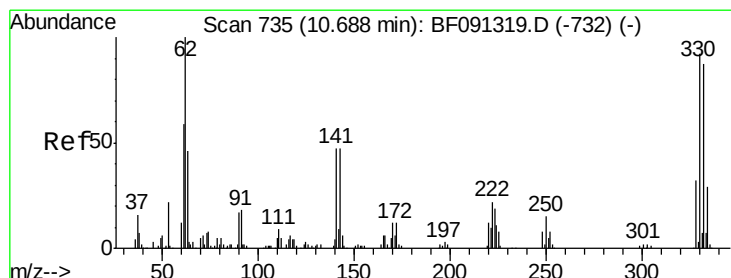
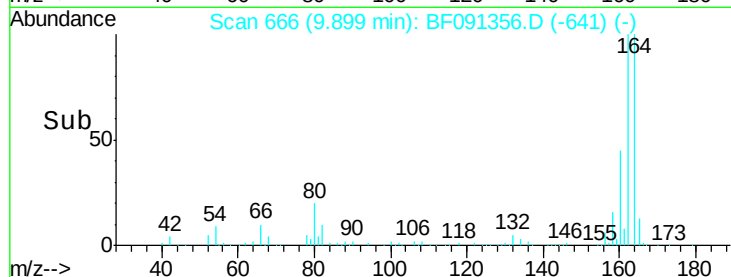
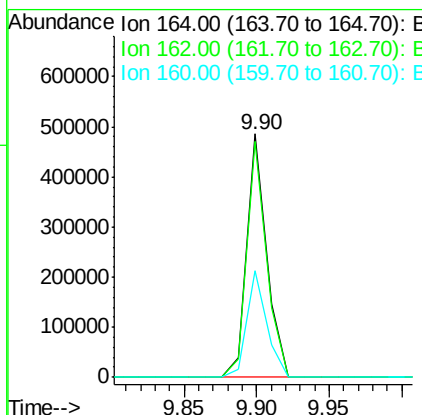
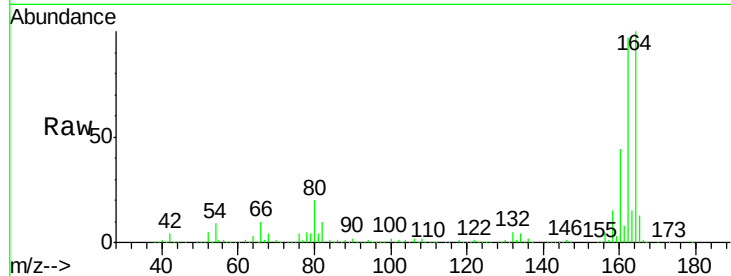
ClientSampleId :

GRID-MM4-4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 164   | Resp: | 461621 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 97.1  | 82.6  | 124.0  |
| 160       | 43.8  | 36.7  | 55.1   |

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#41

2,4,6-Tribromophenol

Concen: 110.46 ng

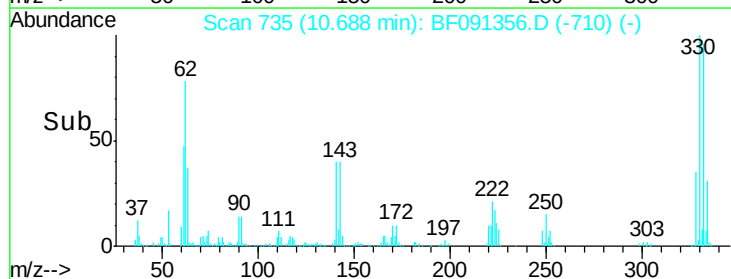
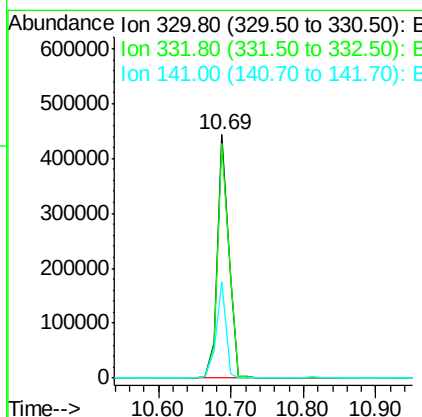
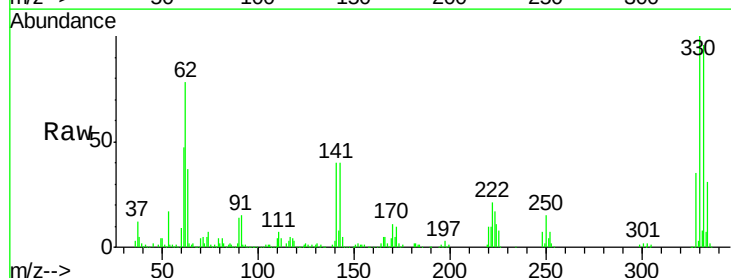
RT: 10.69 min Scan# 735

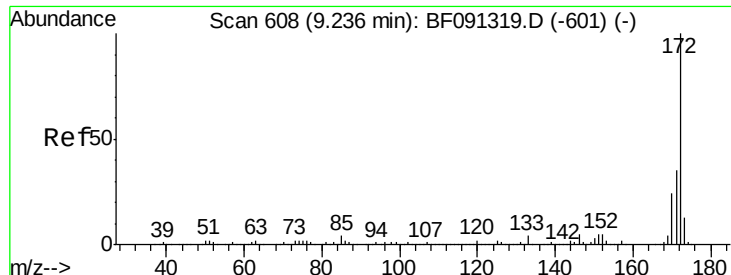
Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 482741 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.4  | 76.2  | 114.4  |
| 141       | 34.3  | 33.6  | 50.4   |





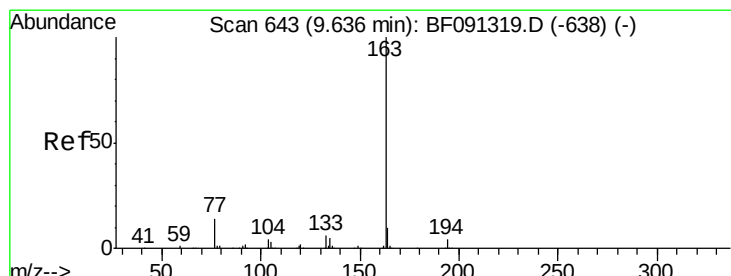
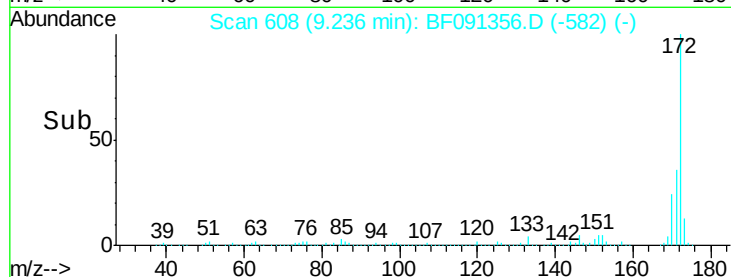
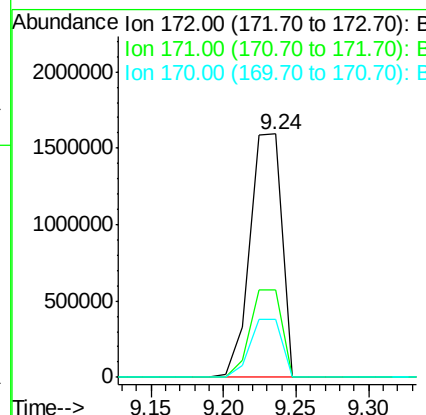
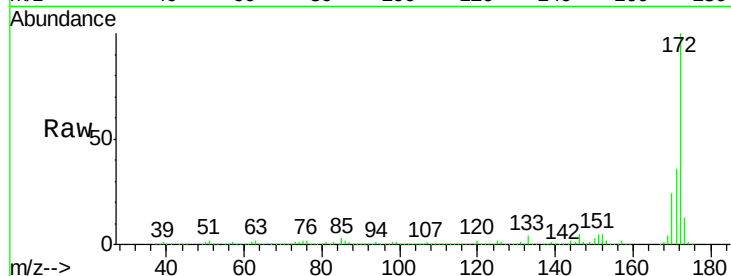
#44  
2-Fluorobiphenyl  
Concen: 95.18 ng  
RT: 9.24 min Scan# 608  
Delta R.T. -0.01 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.4  | 44.0  |
| 170     | 23.9  | 19.7  | 29.5  |

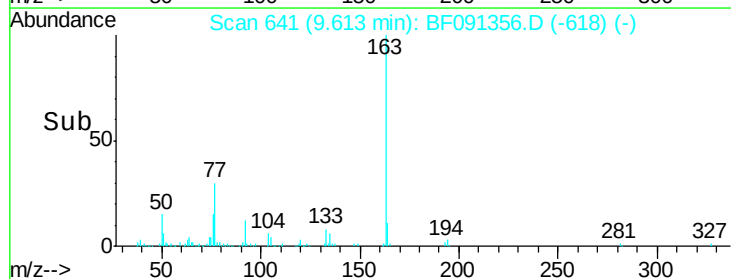
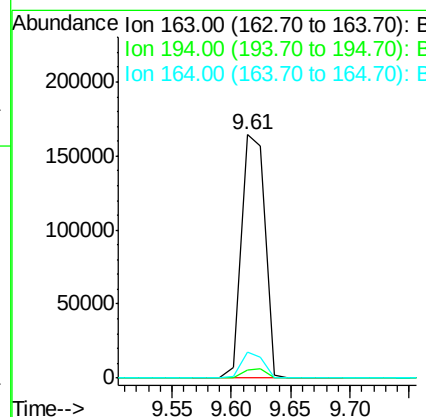
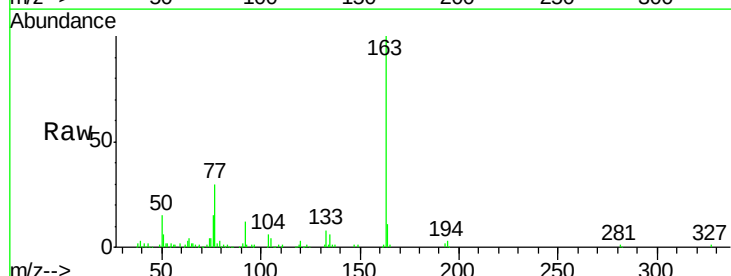
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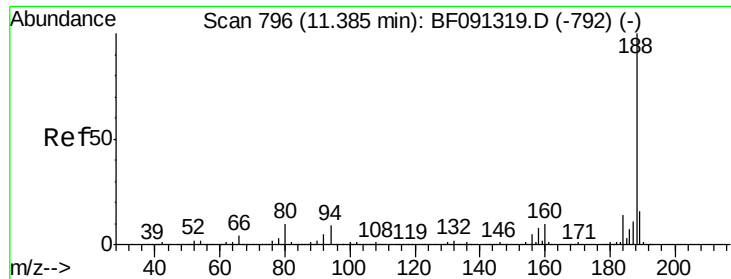
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#49  
Dimethylphthalate  
Concen: 8.11 ng  
RT: 9.61 min Scan# 641  
Delta R.T. -0.04 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 3.0   | 4.4   |
| 164     | 10.6  | 7.8   | 11.8  |





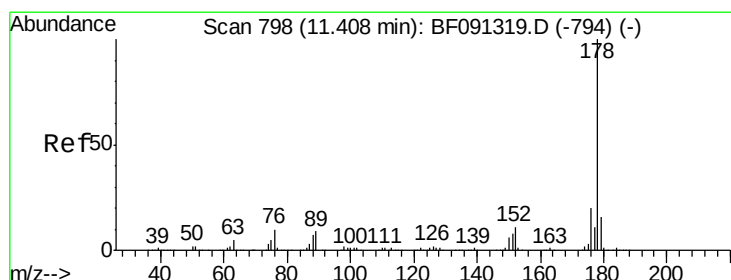
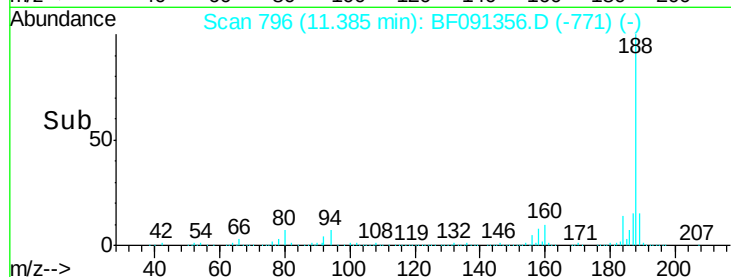
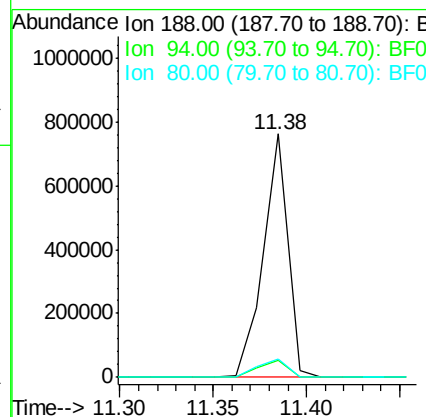
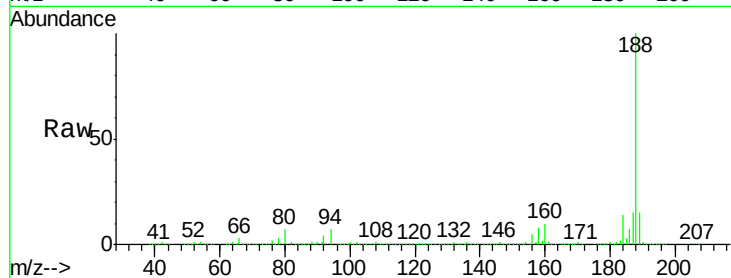
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.38 min Scan# 796  
Delta R.T. -0.02 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 690876 |       |       |
| 94      | 7.0   |        | 9.2   | 13.8# |
| 80      | 7.3   |        | 10.5  | 15.7# |

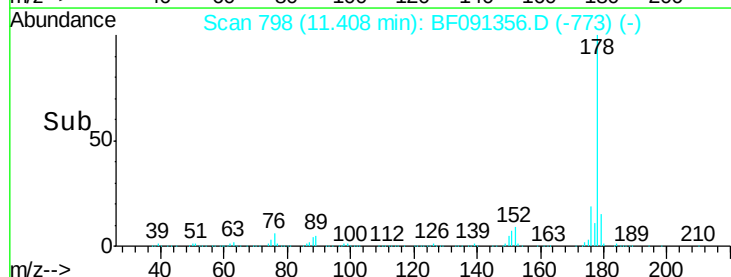
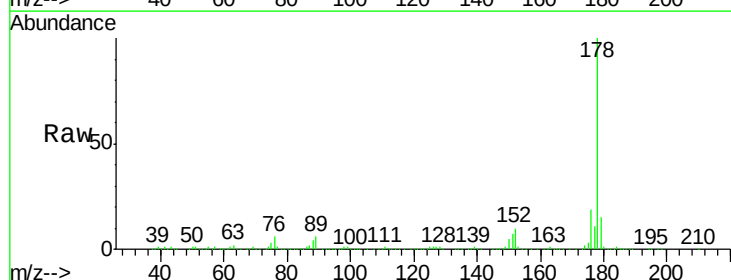
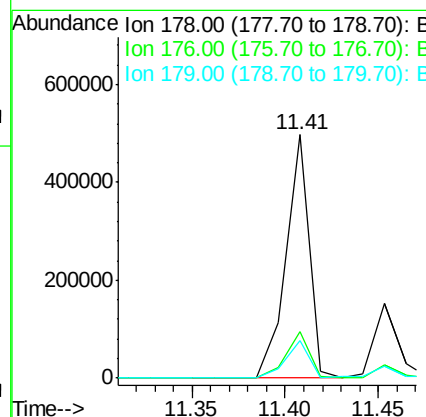
Manual Integrations  
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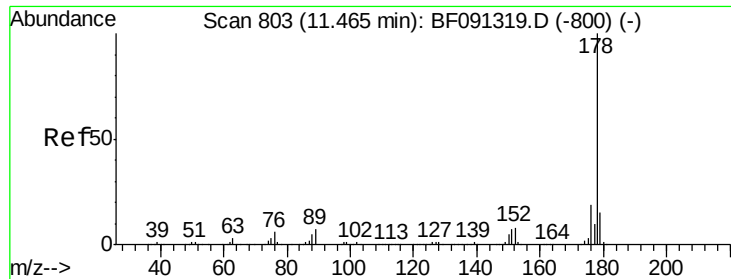


#70  
Phenanthrene  
Concen: 12.03 ng  
RT: 11.41 min Scan# 798  
Delta R.T. -0.02 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 431713 |       |       |
| 176     | 19.2  |        | 15.9  | 23.9  |
| 179     | 15.4  |        | 12.6  | 18.8  |







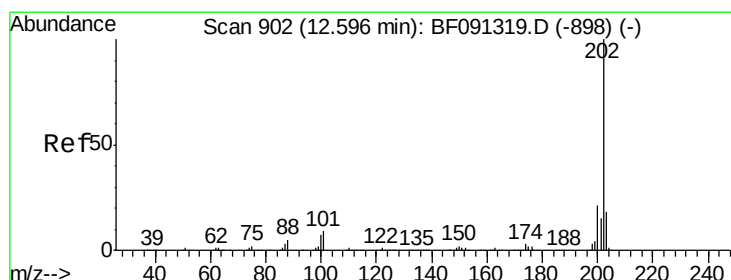
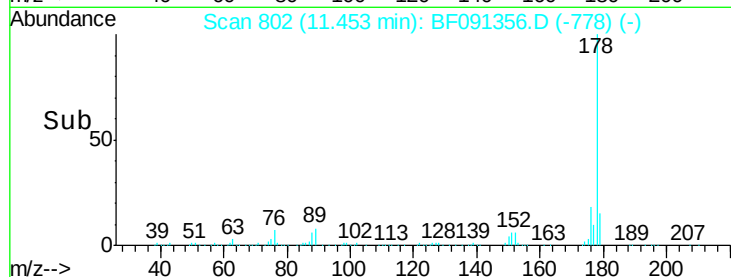
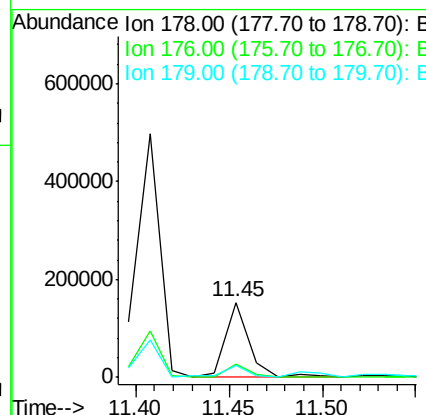
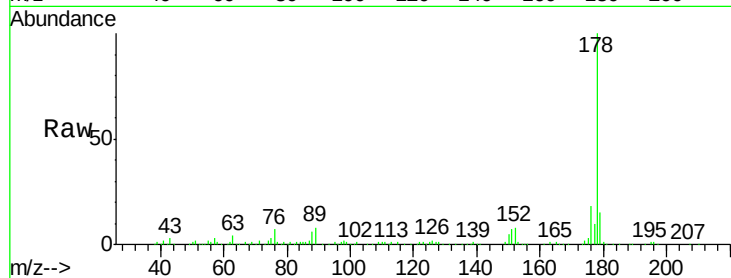
#71  
 Anthracene  
 Concen: 3.73 ng  
 RT: 11.45 min Scan# 802  
 Delta R.T. -0.03 min  
 Lab File: BF091356.D  
 Acq: 30 Nov 2016 16:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-MM4-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.8  | 23.6  |
| 179     | 15.4  | 12.7  | 19.1  |

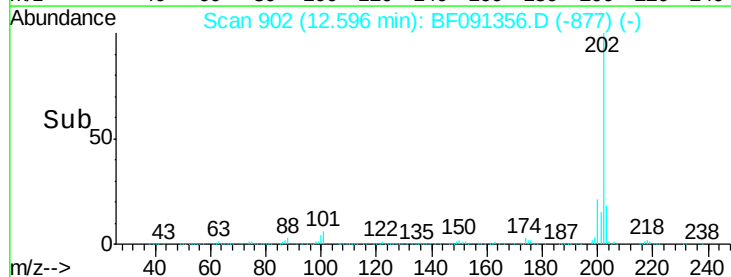
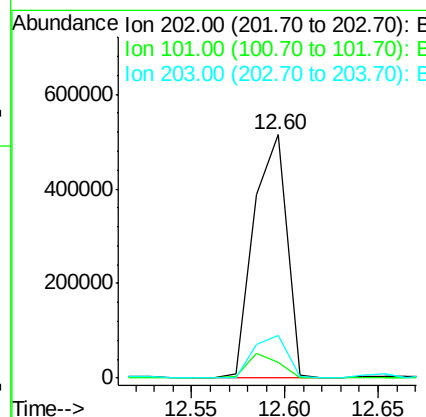
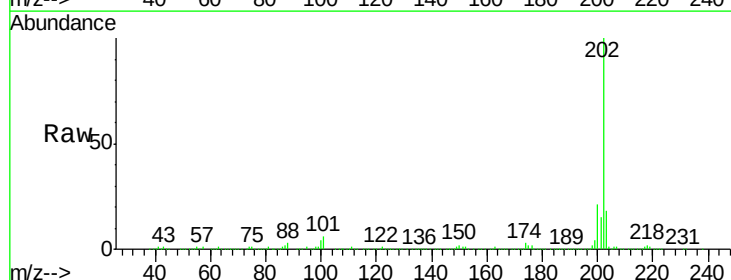
Manual Integrations  
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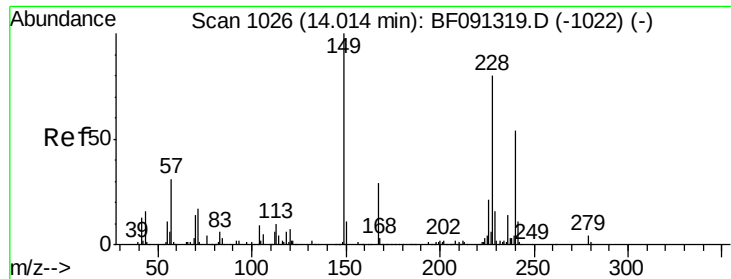
sohil  
 12/1/2016 3:27:45 PM



#74  
 Fluoranthene  
 Concen: 18.49 ng  
 RT: 12.60 min Scan# 902  
 Delta R.T. -0.02 min  
 Lab File: BF091356.D  
 Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.2   | 0.0   | 29.5  |
| 203     | 17.7  | 0.0   | 37.8  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1026

Delta R.T. -0.03 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

Instrument :

BNA\_F

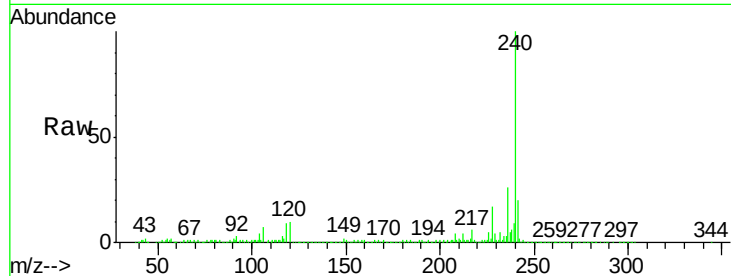
ClientSampleId :

GRID-MM4-4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 518411 |       |       |
| 120     | 10.1  | 12.1   | 18.1  | #     |
| 236     | 26.1  | 21.0   | 31.6  |       |

Manual Integrations  
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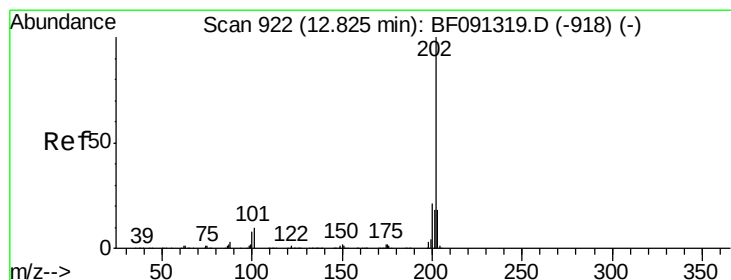
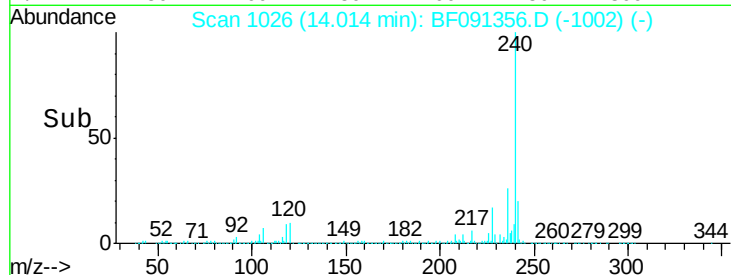
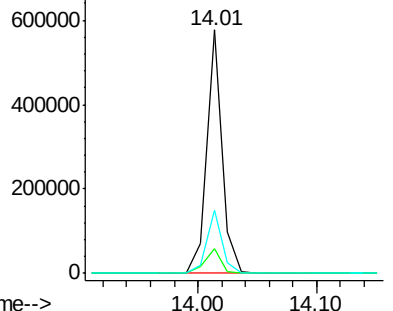
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 13.70 ng

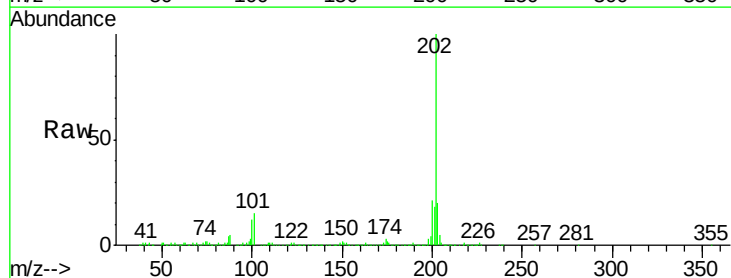
RT: 12.81 min Scan# 921

Delta R.T. -0.03 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

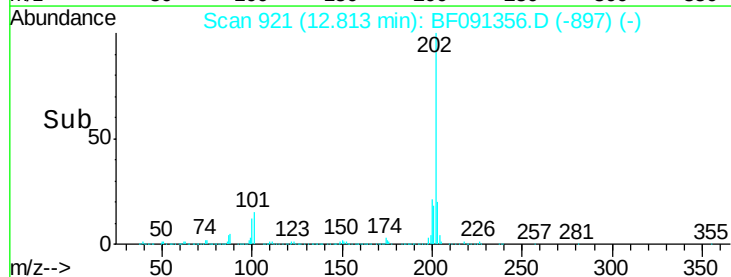
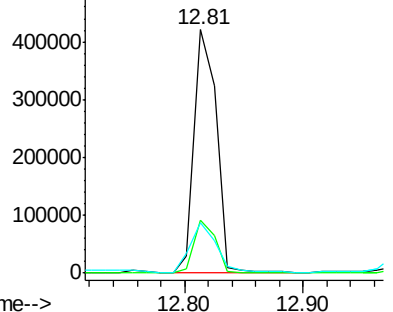
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 538806 |       |       |
| 200     | 21.5  | 17.6   | 26.4  |       |
| 203     | 20.5  | 14.0   | 21.0  |       |

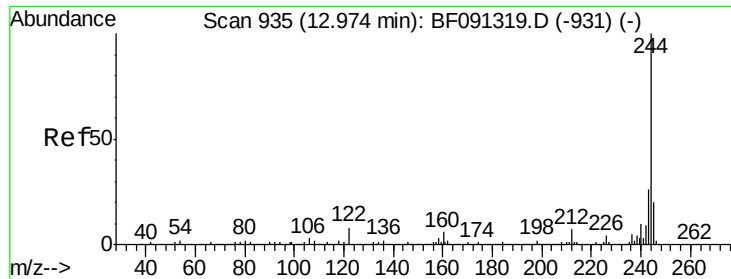


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 73.51 ng

RT: 12.97 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

Instrument :

BNA\_F

ClientSampleId :

GRID-MM4-4

Tot Ion:244 Resp: 1753367

Ion Ratio Lower Upper

244 100

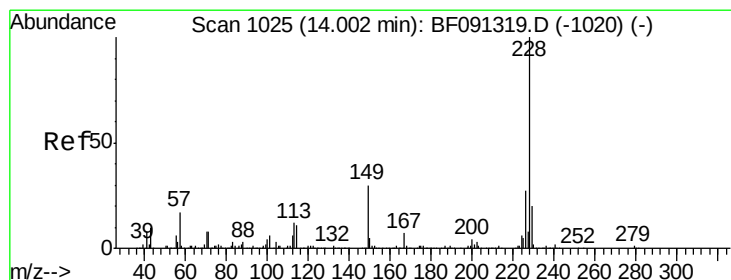
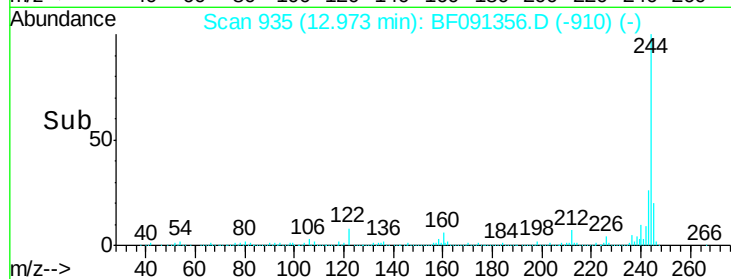
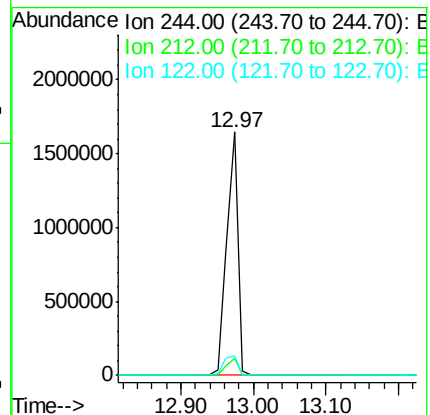
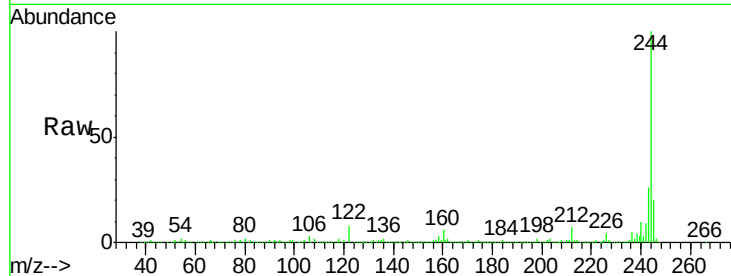
212 7.1 6.5 9.7

122 7.9 9.5 14.3#

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#80

Benzo(a)anthracene

Concen: 11.93 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.02 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

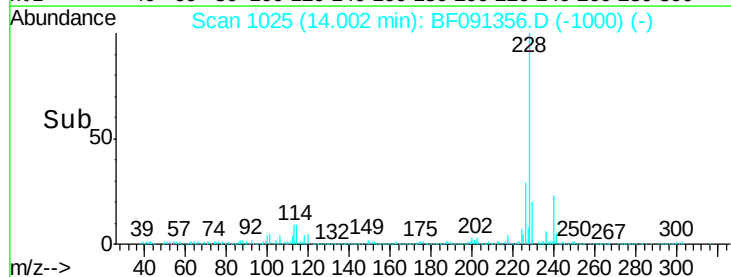
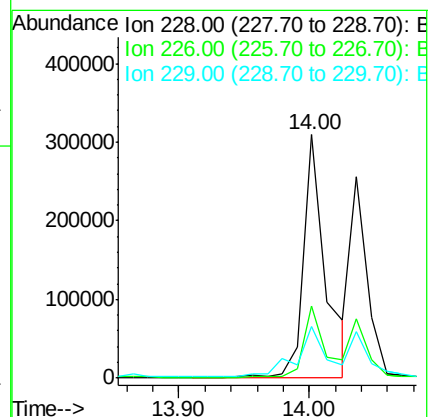
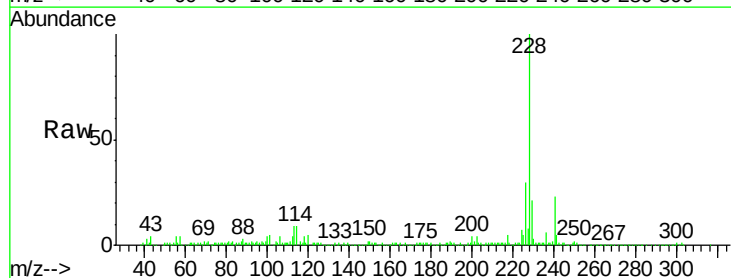
Tgt Ion:228 Resp: 361807

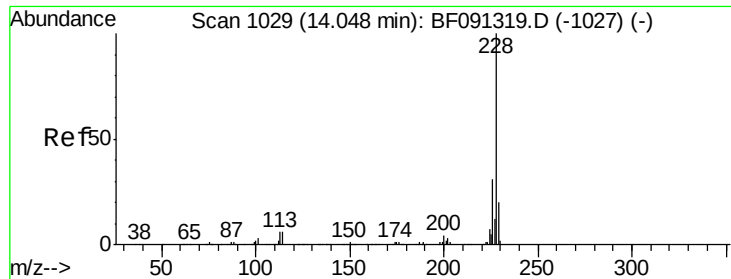
Ion Ratio Lower Upper

228 100

226 29.5 22.5 33.7

229 20.9 16.4 24.6





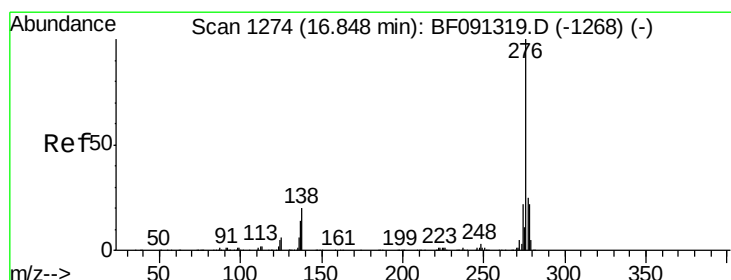
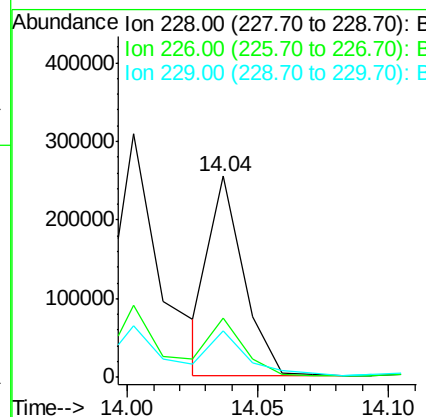
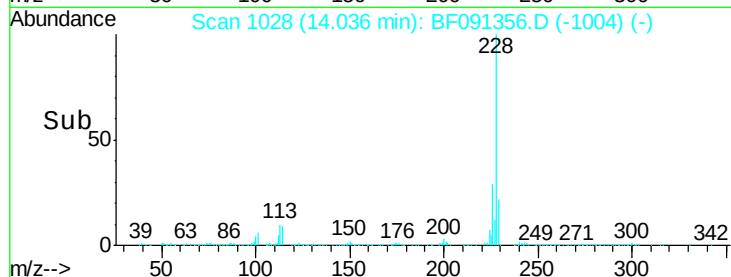
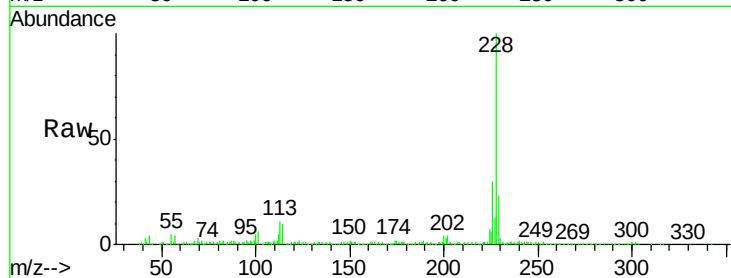
#82  
Chrysene  
Concen: 7.67 ng  
RT: 14.04 min Scan# 1028  
Delta R.T. -0.03 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 230208 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.7  | 25.0  | 37.4   |
| 229       | 23.2  | 16.0  | 24.0   |

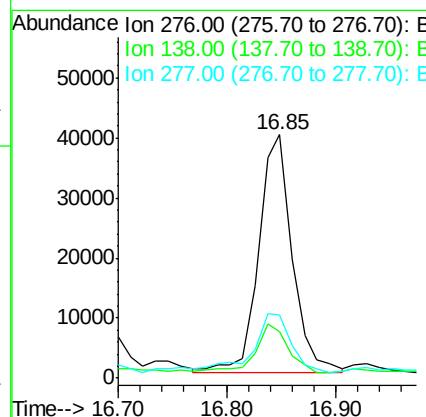
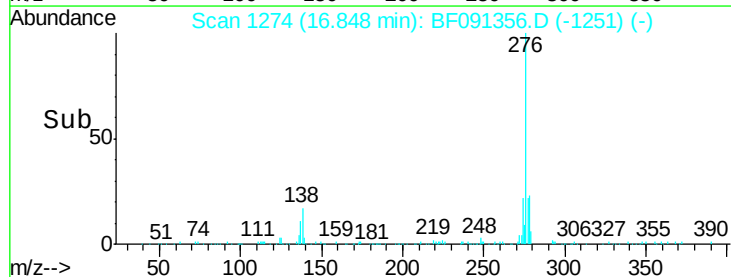
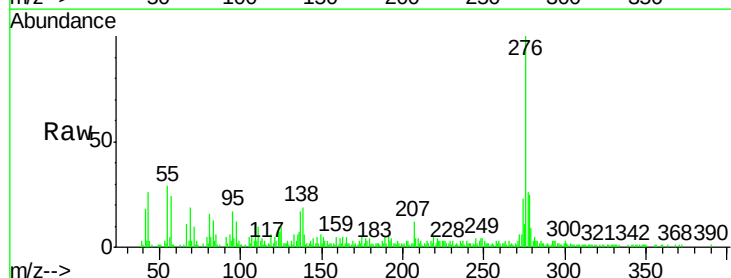
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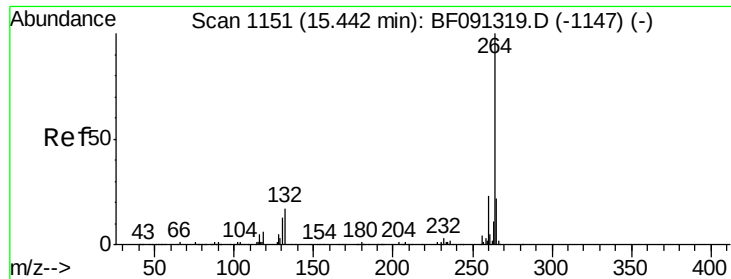
sohil  
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.10 ng  
RT: 16.85 min Scan# 1274  
Delta R.T. -0.04 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 85201 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.9  | 21.0  | 31.4# |
| 277       | 30.2  | 20.2  | 30.2  |





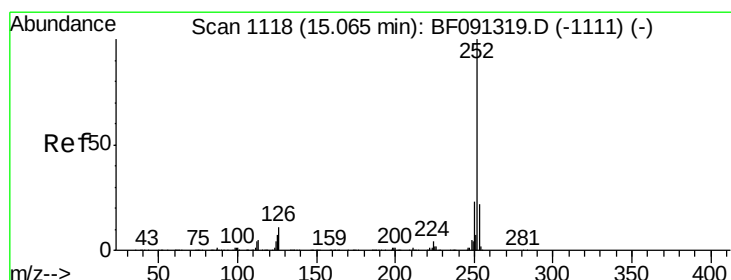
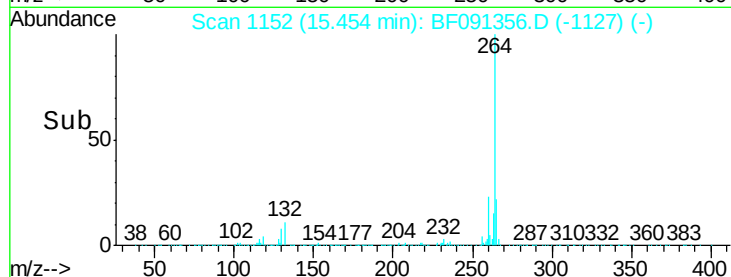
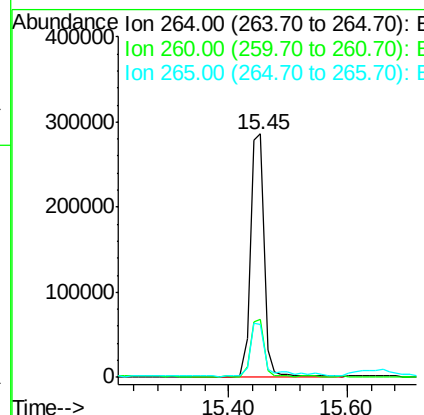
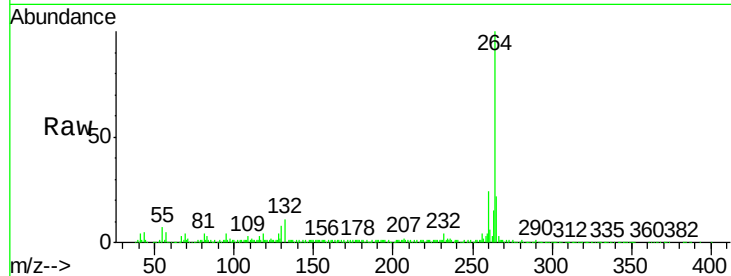
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.45 min Scan# 1152  
Delta R.T. -0.02 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.8  | 28.2  |
| 265     | 21.9  | 17.0  | 25.6  |

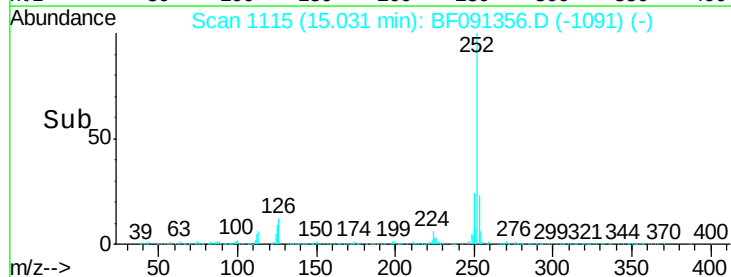
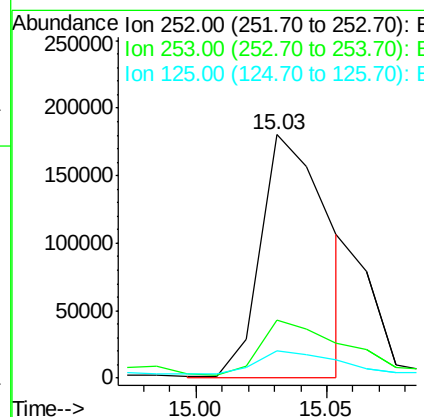
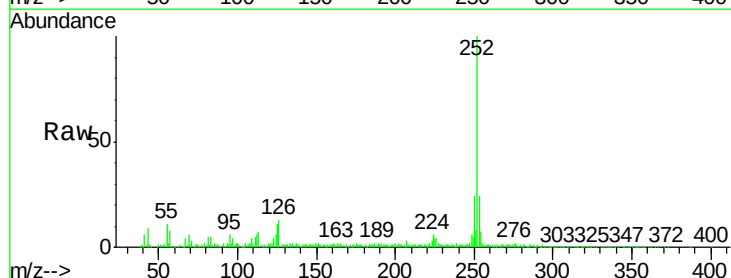
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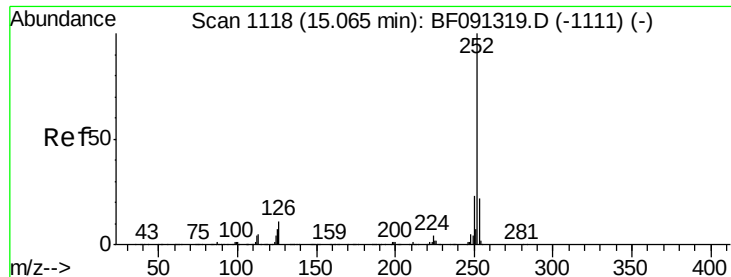
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#87  
Benzo(b)fluoranthene  
Concen: 11.57 ng m  
RT: 15.03 min Scan# 1115  
Delta R.T. -0.03 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.2  | 27.2  |
| 125     | 11.1  | 8.6   | 13.0  |





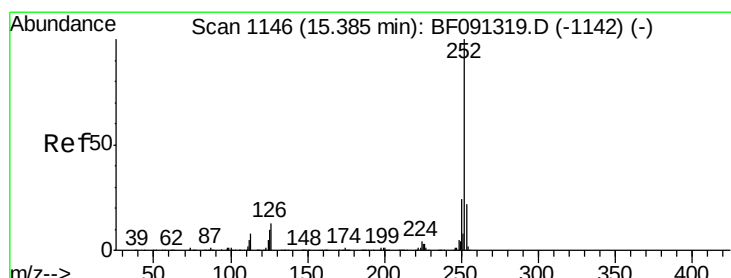
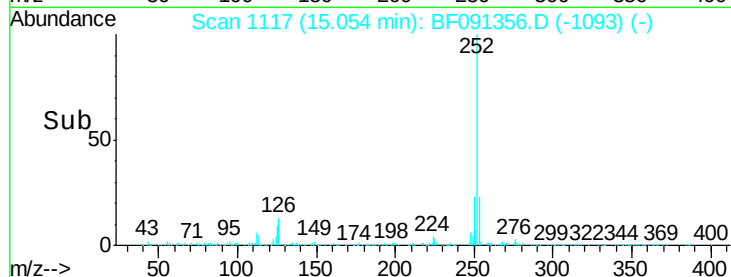
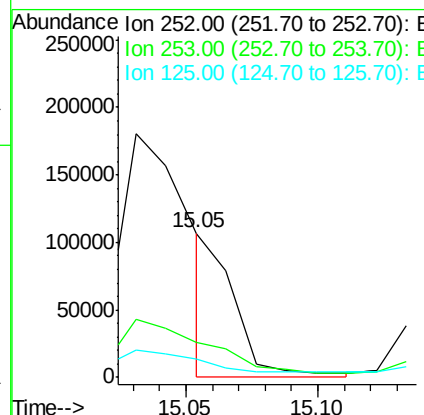
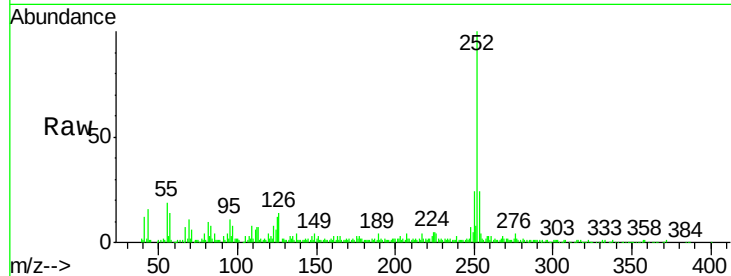
#88  
Benzo(k)fluoranthene  
Concen: 2.93 ng m  
RT: 15.05 min Scan# 1117  
Delta R.T. -0.03 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-MM4-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 17.8  | 26.8  |
| 125     | 12.5  | 9.6   | 14.4  |

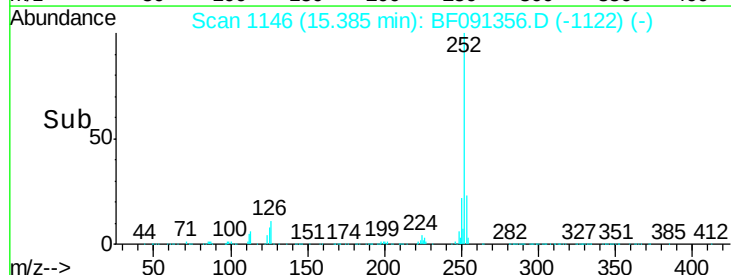
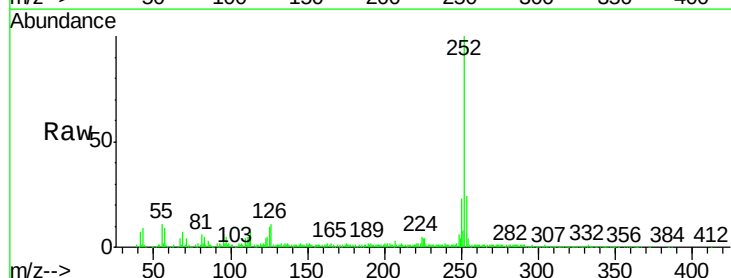
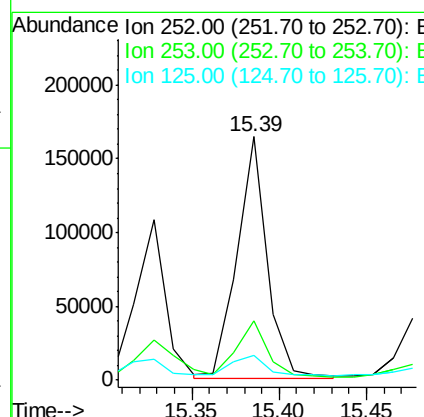
Manual Integrations  
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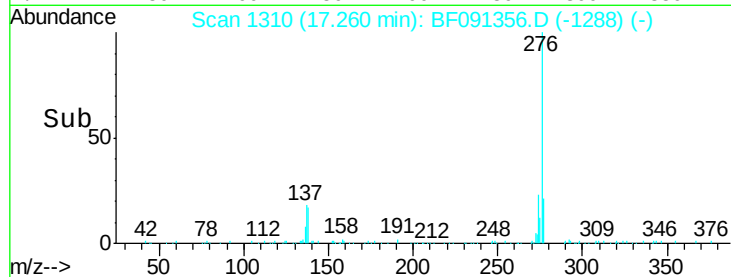
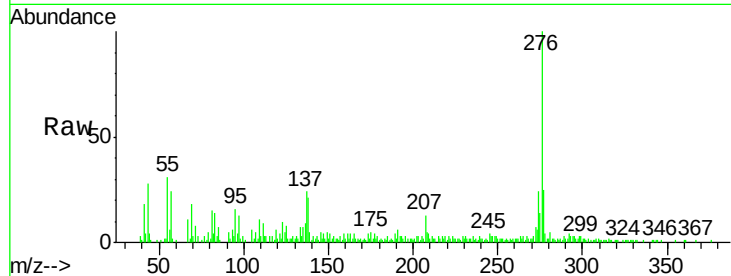
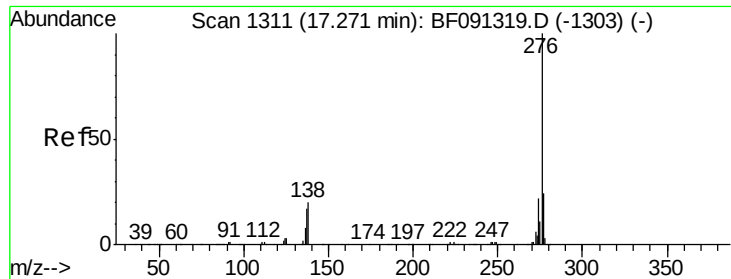
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#89  
Benzo(a)pyrene  
Concen: 7.82 ng m  
RT: 15.39 min Scan# 1146  
Delta R.T. -0.03 min  
Lab File: BF091356.D  
Acq: 30 Nov 2016 16:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.2  | 27.4  |
| 125     | 10.3  | 10.4  | 15.6  |





#91

Benzo(a,h,i)perylene

Concen: 3.08 ng

RT: 17.26 min Scan# 1310

Delta R.T. -0.05 min

Lab File: BF091356.D

Acq: 30 Nov 2016 16:05

Instrument :

BNA\_F

ClientSampleId :

GRID-MM4-4

Tot Ion: 276 Resp: 74081

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.4

138 21.5 15.4 23.0

Manual Integrations

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