

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022017\  
 Data File : BF093072.D  
 Acq On : 21 Feb 2017 13:08  
 Operator : SJ/MA  
 Sample : I1910-01RE  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HARMONBLDG30-RW-1RE

Manual Integrations  
 APPROVED

mohammad  
 2/21/2017 3:58:05 PM

Quant Time: Feb 21 14:38:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 137424m  | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.14  | 136  | 420272m  | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.92  | 164  | 175388m  | 20.00  | ng    | 0.02     |
| 63) Phenanthrene-d10        | 11.40 | 188  | 290093m  | 20.00  | ng    | 0.02     |
| 75) Chrysene-d12            | 14.01 | 240  | 276103m  | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.44 | 264  | 288563m  | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.44  | 112  | 496117   | 61.94  | ng    | -0.01    |
| 7) Phenol-d6                | 6.48  | 99   | 384974   | 37.35  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 877528   | 116.28 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 187600m  | 147.89 | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 1069059m | 110.43 | ng    | 0.01     |
| 78) Terphenyl-d14           | 12.97 | 244  | 845804m  | 71.98  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 37) 2-Methylnaphthalene     | 8.86  | 142  | 363909m  | 26.60  | ng    | Qvalue   |
| 51) Acenaphthene            | 9.95  | 154  | 94816m   | 9.24   | ng    |          |
| 70) Phenanthrene            | 11.42 | 178  | 444143m  | 26.72  | ng    |          |
| 74) Fluoranthene            | 12.60 | 202  | 41377m   | 2.41   | ng    |          |
| 77) Pyrene                  | 12.83 | 202  | 161954m  | 7.84   | ng    |          |

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

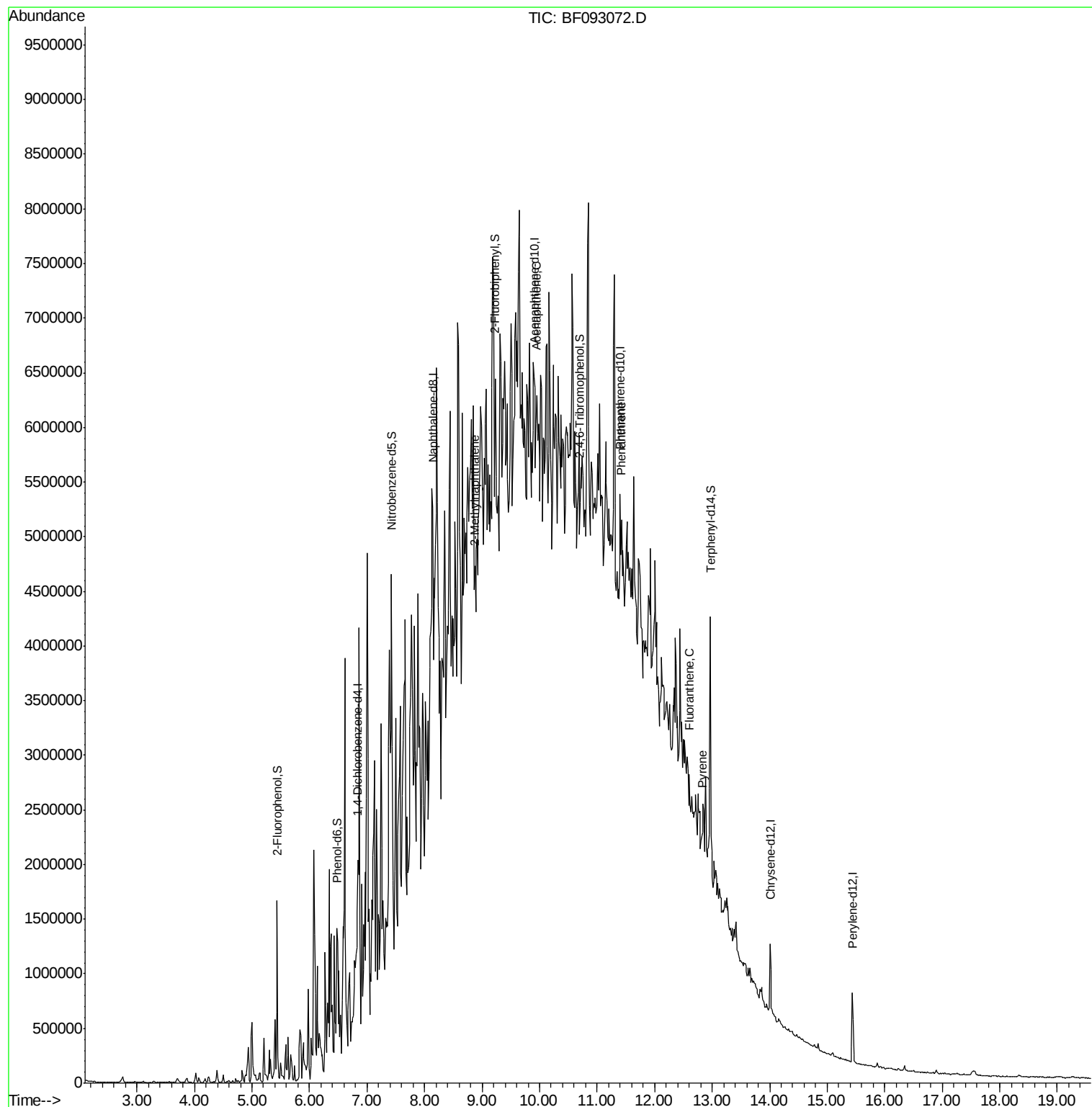
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022017\  
Data File : BF093072.D  
Acq On : 21 Feb 2017 13:08  
Operator : SJ/MA  
Sample : I1910-01RE  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

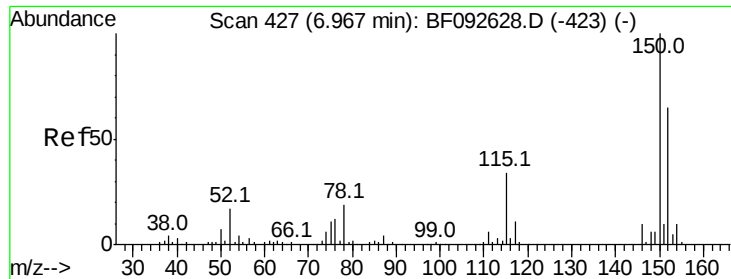
Instrument :  
BNA\_F  
ClientSampleId :  
HARMONBLDG30-RW-1RE

Manual Integrations  
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2/21/2017 3:58:05 PM

Quant Time: Feb 21 14:38:33 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.84 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

Instrument :

BNA\_F

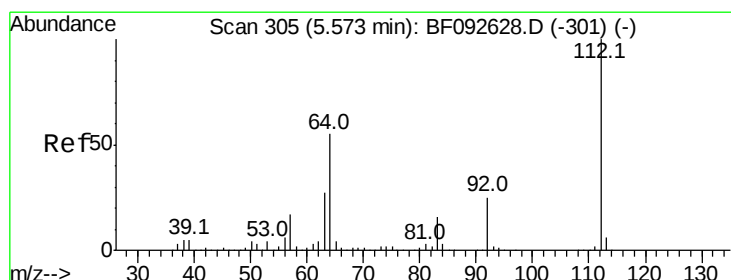
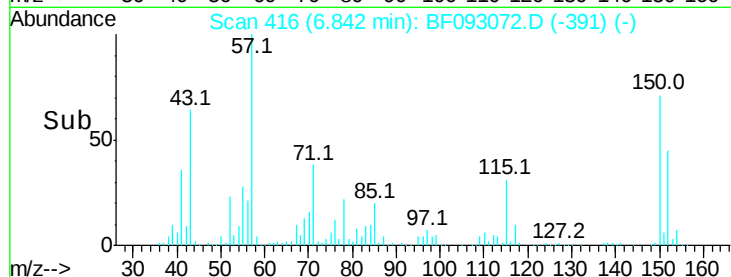
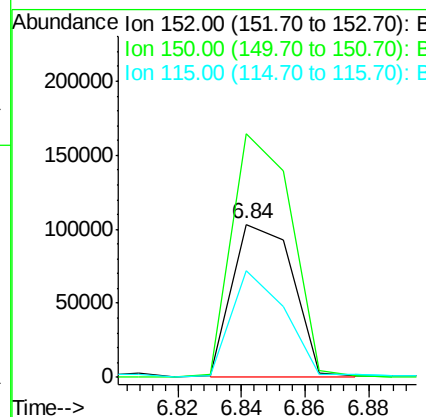
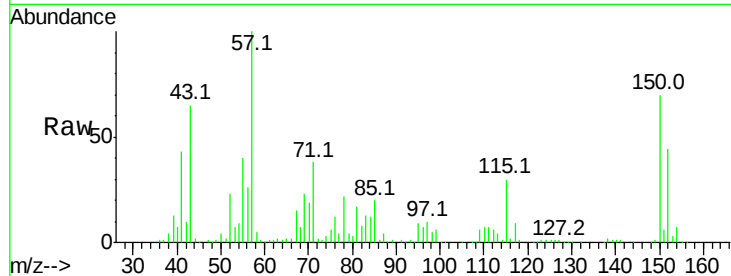
ClientSampleId :

HARMONBLDG30-RW-1RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 137424 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 158.9 | 124.9 | 187.3  |
| 115       | 69.2  | 46.0  | 69.0   |

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#5

2-Fluorophenol

Concen: 61.94 ng

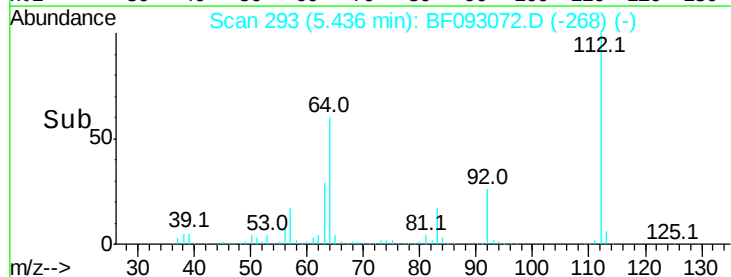
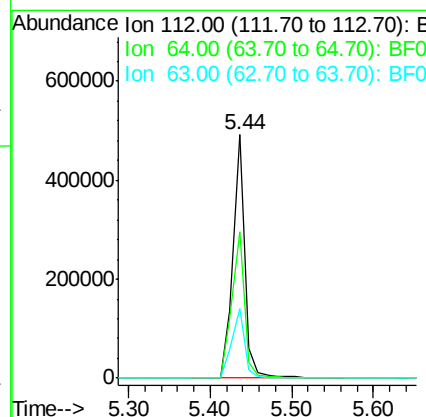
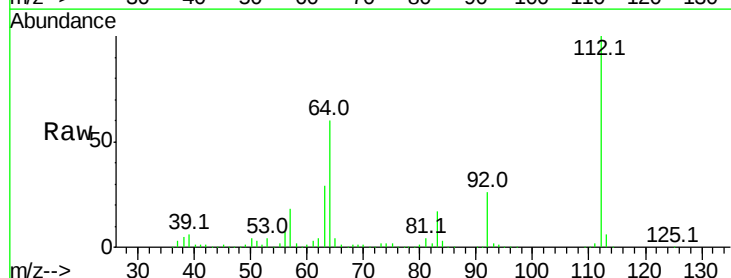
RT: 5.44 min Scan# 293

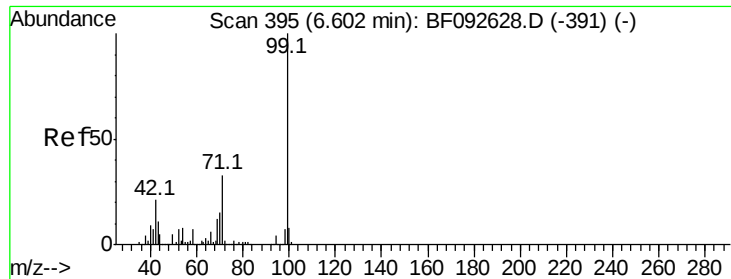
Delta R.T. -0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 496117 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 60.0  | 46.1  | 69.1   |
| 63        | 28.8  | 23.8  | 35.6   |





#7

Phenol-d6

Concen: 37.35 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

Instrument :

BNA\_F

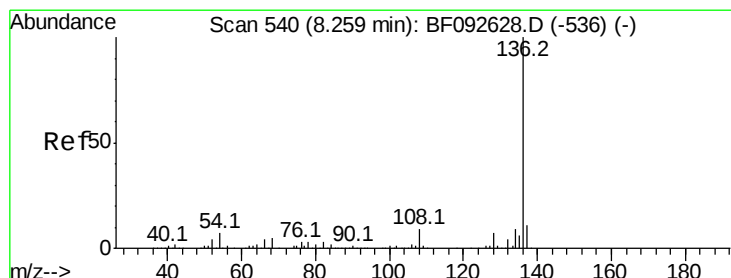
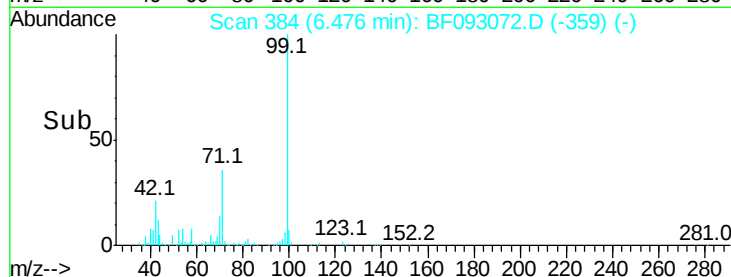
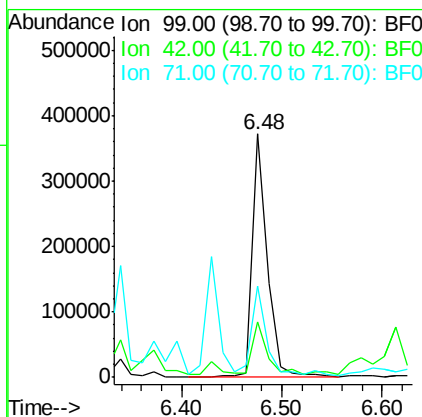
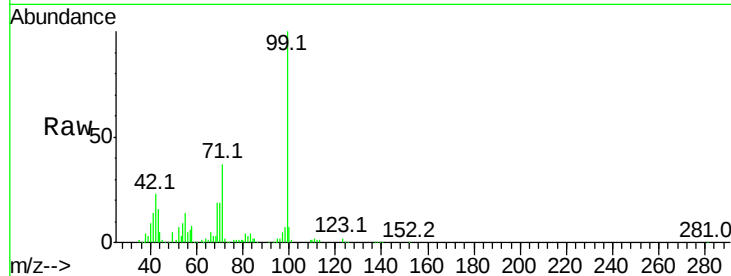
ClientSampleId :

HARMONBLDG30-RW-1RE

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 384974 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 22.7  | 15.6  | 23.4   |
| 71       | 37.2  | 27.5  | 41.3   |

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#21

Naphthalene-d8

Concen: 20.00 ng m

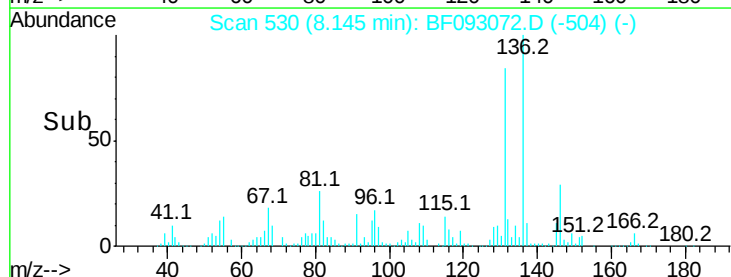
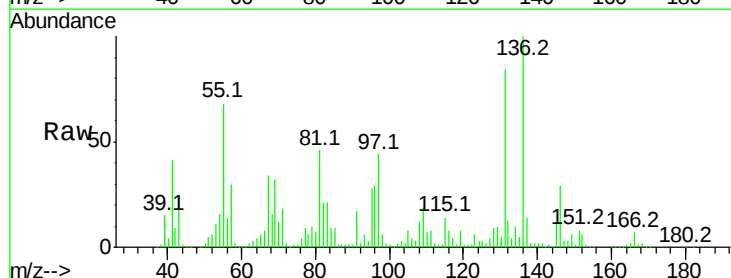
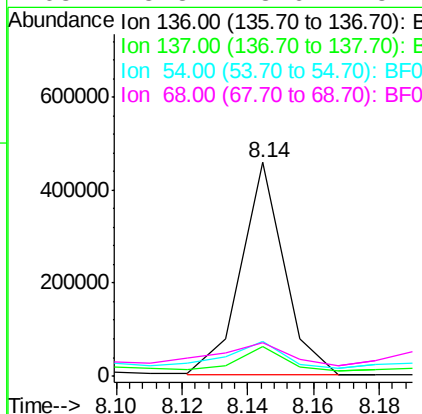
RT: 8.14 min Scan# 530

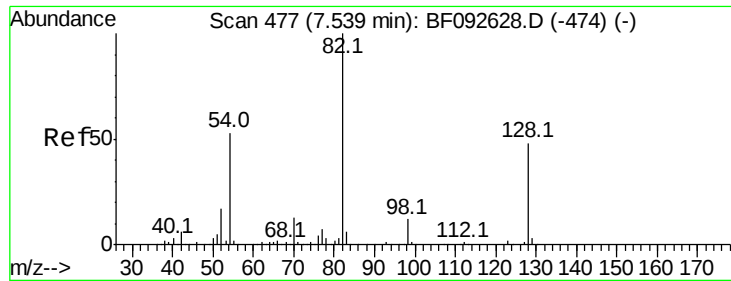
Delta R.T. -0.00 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 420272 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 14.0  | 8.4   | 12.6#  |
| 54       | 16.1  | 4.5   | 6.7#   |
| 68       | 15.8  | 3.6   | 5.4#   |





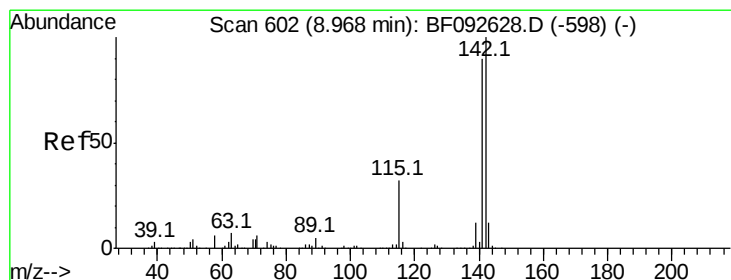
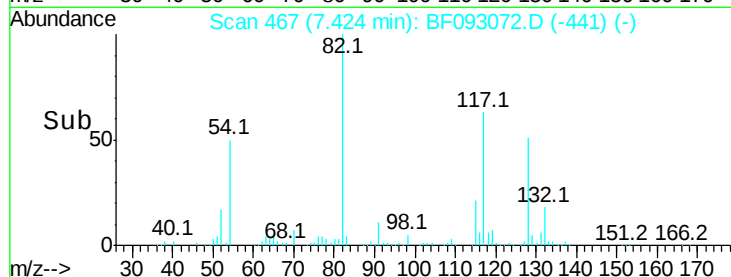
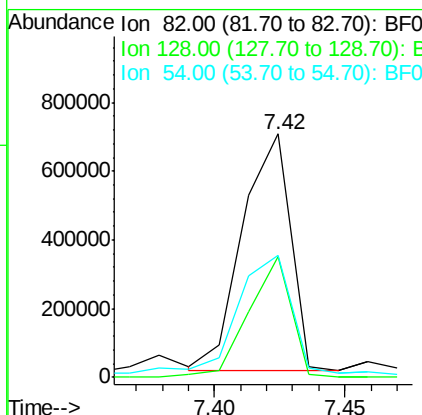
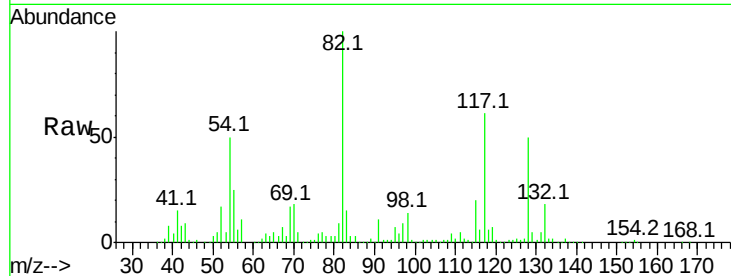
#23  
 Nitrobenzene-d5  
 Concen: 116.28 ng  
 RT: 7.42 min Scan# 467  
 Delta R.T. -0.00 min  
 Lab File: BF093072.D  
 Acq: 21 Feb 2017 13:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HARMONBLDG30-RW-1RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.6  | 34.6  | 52.0  |
| 54      | 50.1  | 39.5  | 59.3  |

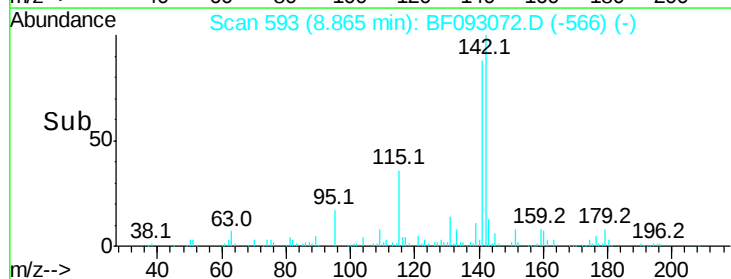
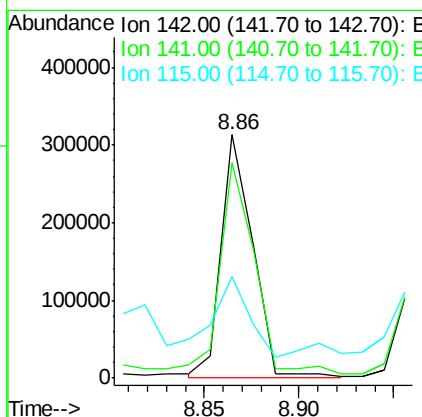
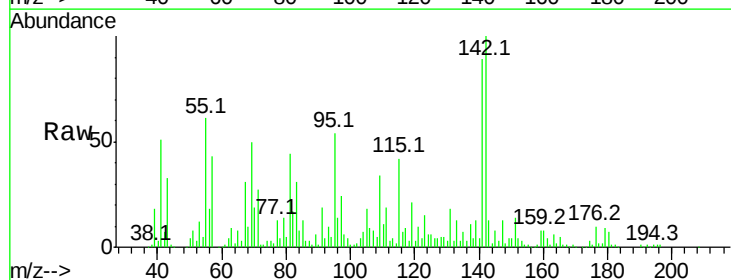
Manual Integrations  
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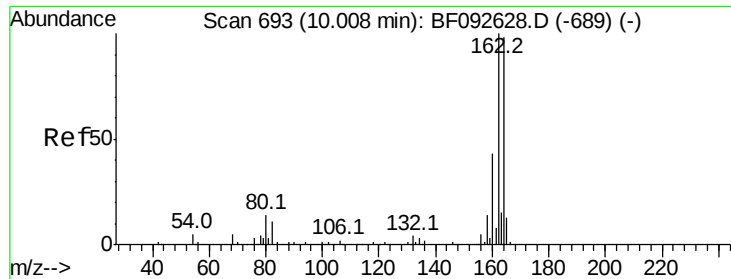
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#37  
 2-Methylnaphthalene  
 Concen: 26.60 ng m  
 RT: 8.86 min Scan# 593  
 Delta R.T. 0.01 min  
 Lab File: BF093072.D  
 Acq: 21 Feb 2017 13:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.6  | 71.0  | 106.6 |
| 115     | 41.8  | 28.3  | 42.5  |





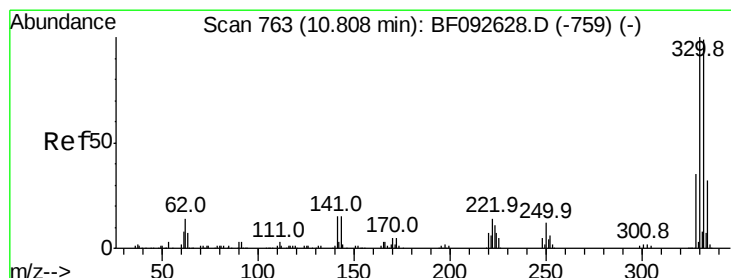
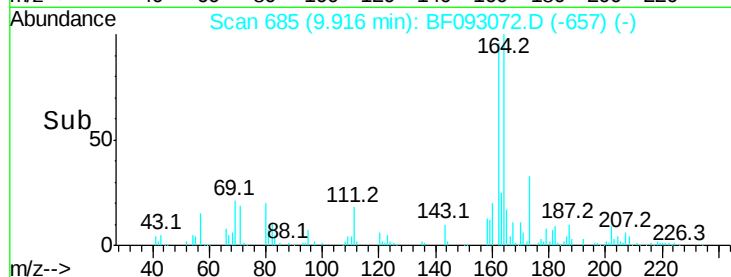
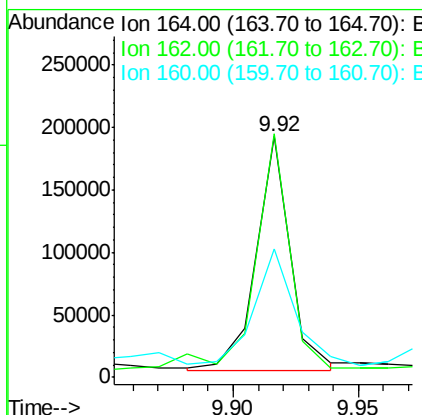
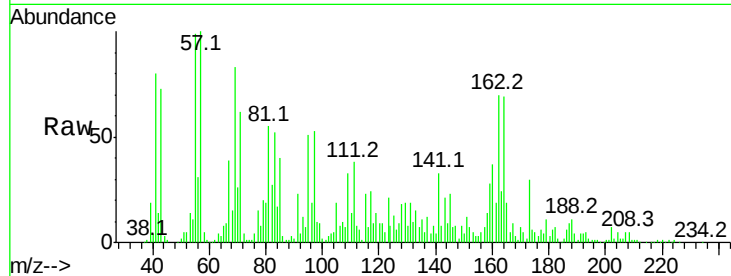
#38  
Acenaphthene-d10  
Concen: 20.00 ng m  
RT: 9.92 min Scan# 685  
Delta R.T. 0.02 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

Instrument :  
BNA\_F  
ClientSampleId :  
HARMONBLDG30-RW-1RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.2 | 80.2  | 120.2 |
| 160     | 53.2  | 36.9  | 55.3  |

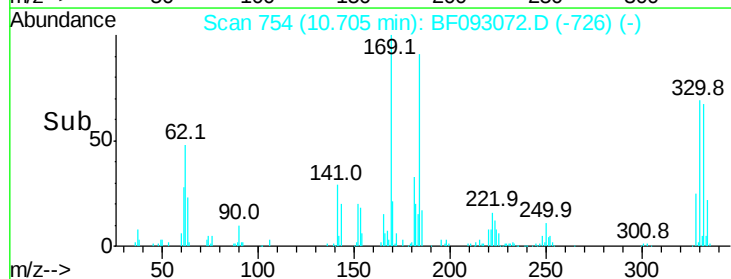
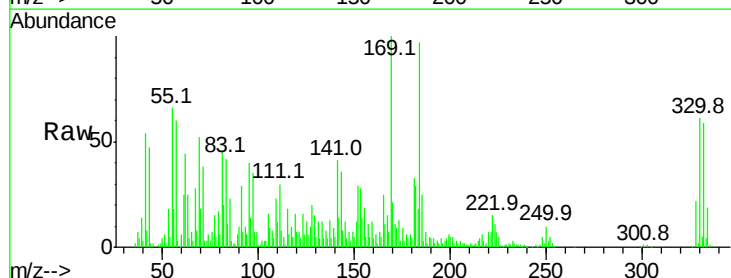
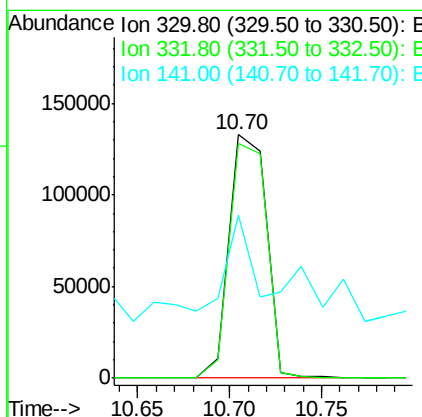
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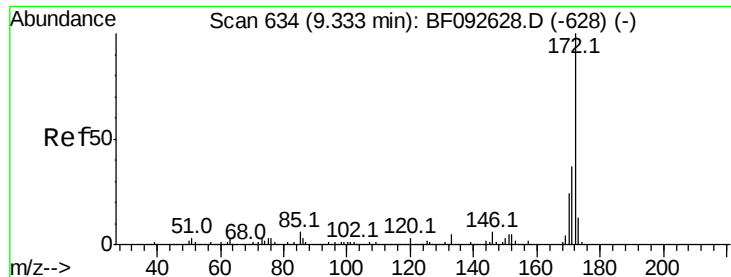
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#41  
2,4,6-Tribromophenol  
Concen: 147.89 ng m  
RT: 10.70 min Scan# 754  
Delta R.T. 0.02 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 0.0   | 77.4  | 116.2# |
| 141     | 37.5  | 34.1  | 51.1   |





#44

2-Fluorobiphenyl

Concen: 110.43 ng m

RT: 9.23 min Scan# 625

Delta R.T. 0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

Instrument :

BNA\_F

ClientSampleId :

HARMONBLDG30-RW-1RE

Tot Ion:172 Resp: 1069059

Ion Ratio Lower Upper

172 100

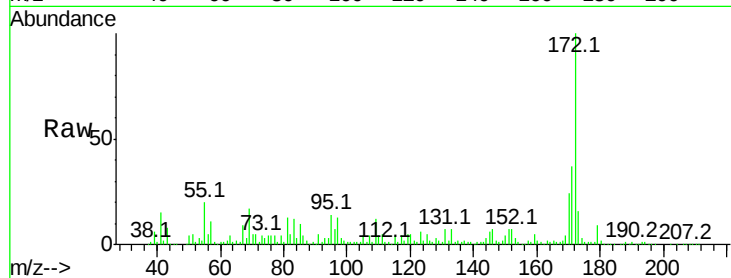
171 36.7 29.4 44.0

170 24.4 20.2 30.4

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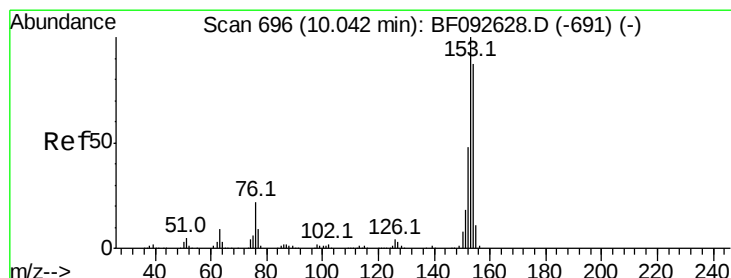
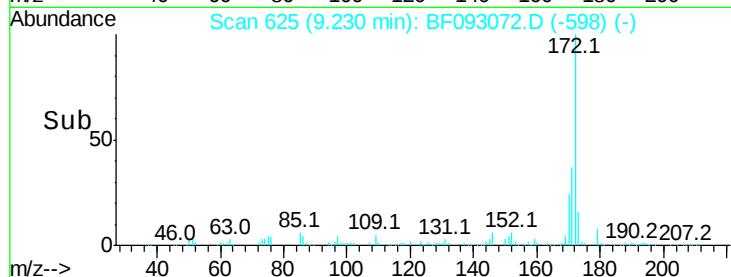
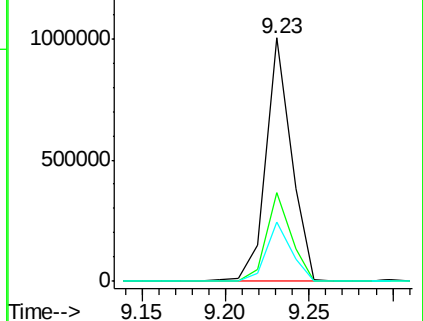
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51

Acenaphthene

Concen: 9.24 ng m

RT: 9.95 min Scan# 688

Delta R.T. 0.02 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

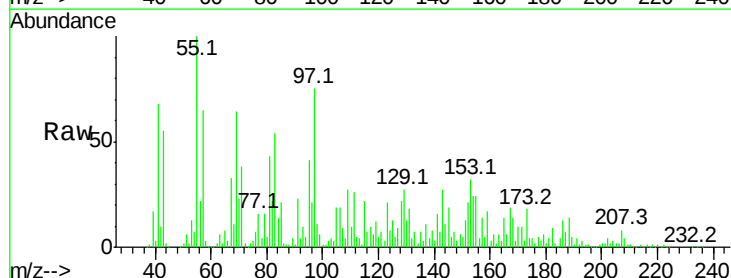
Tgt Ion:154 Resp: 94816

Ion Ratio Lower Upper

154 100

153 133.5 88.6 133.0#

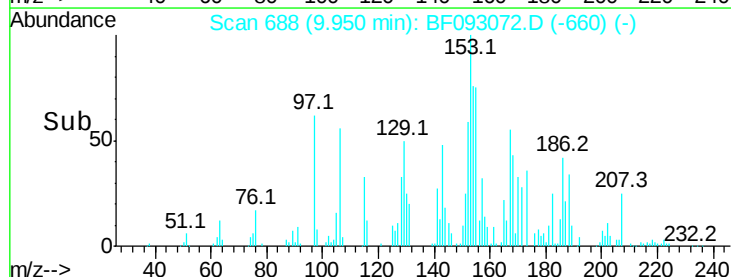
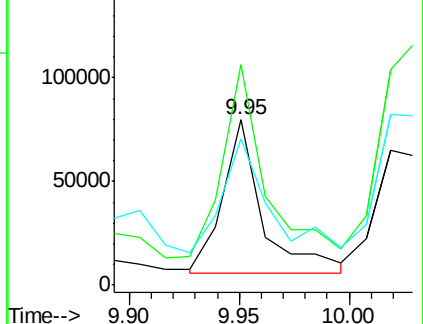
152 89.0 41.6 62.4#

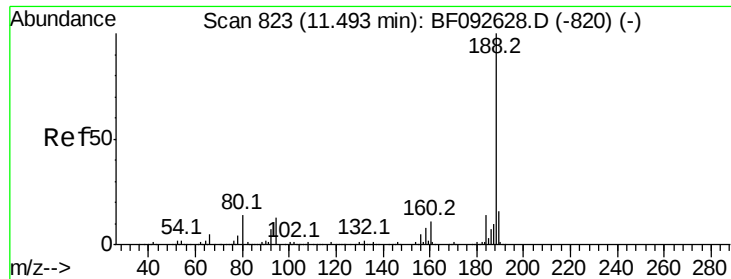


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





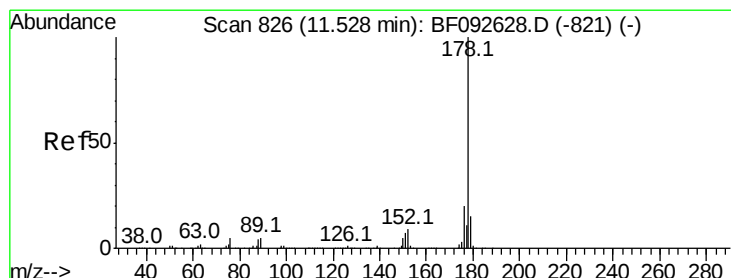
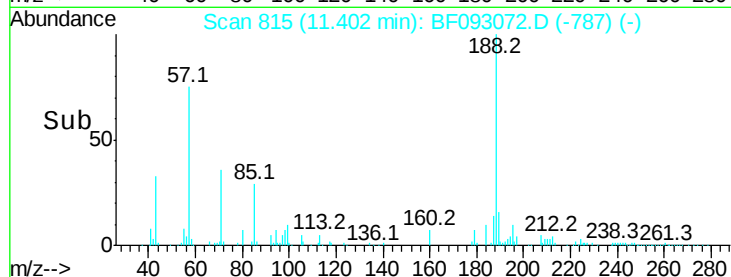
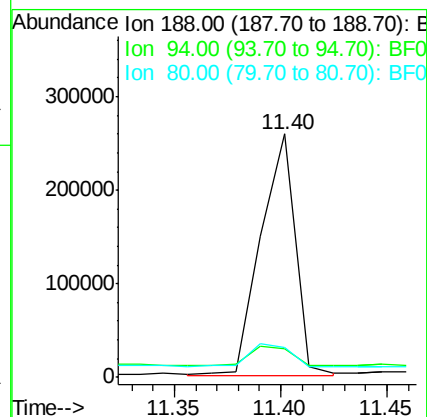
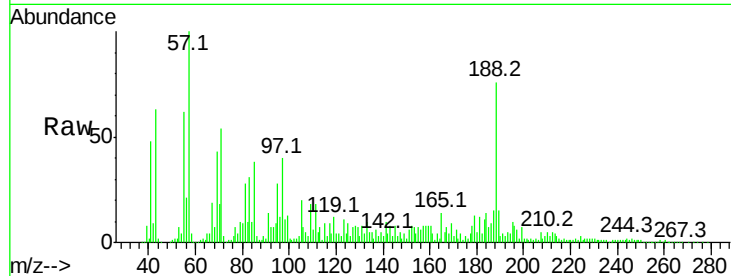
#63  
Phenanthrene-d10  
Concen: 20.00 ng m  
RT: 11.40 min Scan# 815  
Delta R.T. 0.02 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

Instrument :  
BNA\_F  
ClientSampleId :  
HARMONBLDG30-RW-1RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 290093 |       |       |
| 94      | 12.0  |        | 10.0  | 15.0  |
| 80      | 12.0  |        | 11.2  | 16.8  |

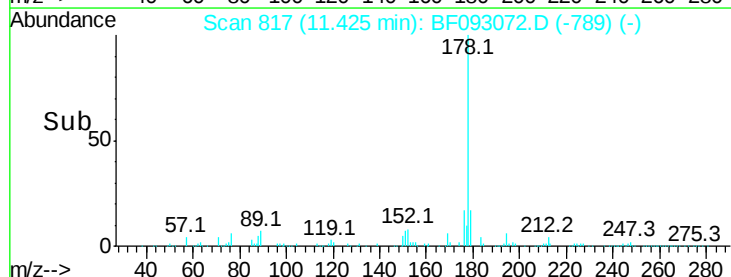
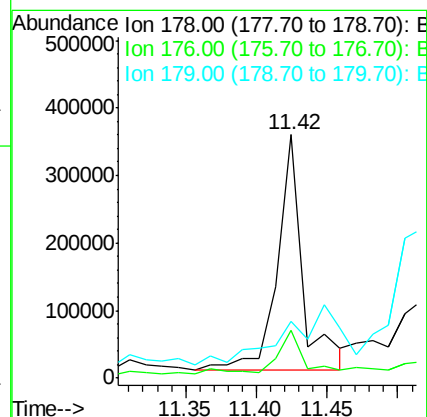
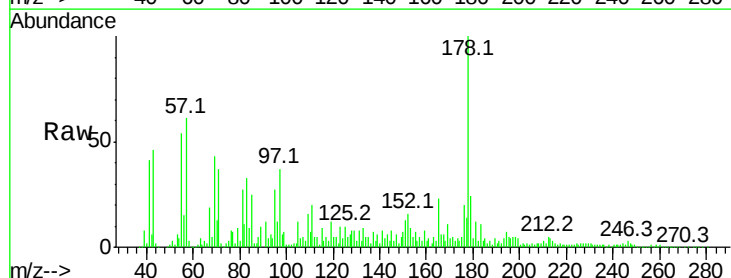
Manual Integrations  
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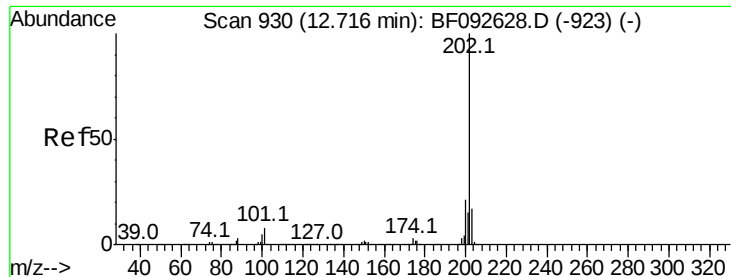
mohammad  
2/21/2017 3:58:05 PM



#70  
Phenanthrene  
Concen: 26.72 ng m  
RT: 11.42 min Scan# 817  
Delta R.T. 0.02 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 444143 |       |       |
| 176     | 19.7  |        | 16.6  | 25.0  |
| 179     | 23.6  |        | 12.8  | 19.2# |





#74

Fluoranthene

Concen: 2.41 ng m

RT: 12.60 min Scan# 920

Delta R.T. 0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

Instrument :

BNA\_F

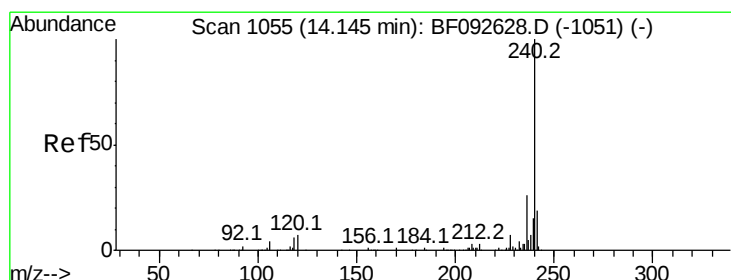
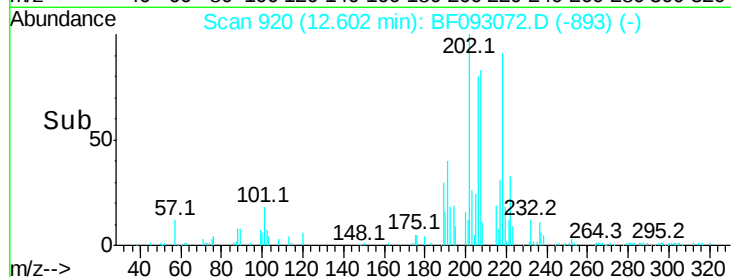
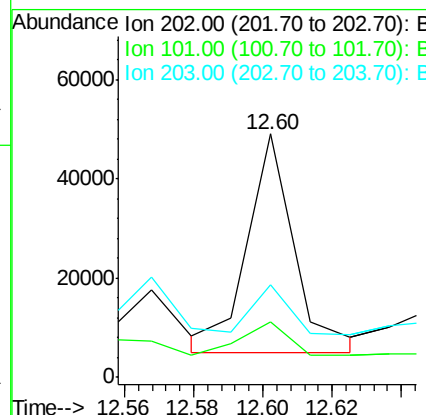
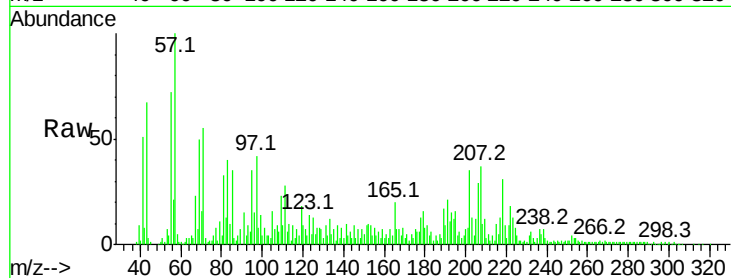
ClientSampleId :

HARMONBLDG30-RW-1RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 41377 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 22.9  | 0.0   | 34.6  |
| 203       | 38.3  | 0.0   | 38.7  |

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#75

Chrysene-d12

Concen: 20.00 ng m

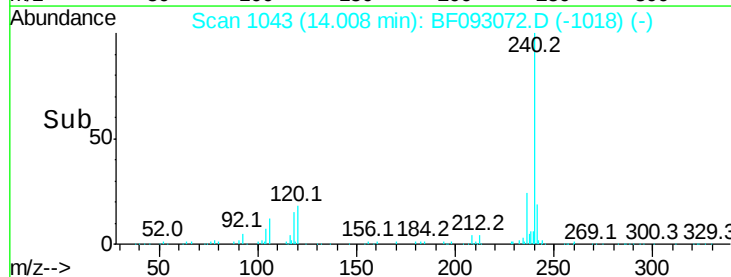
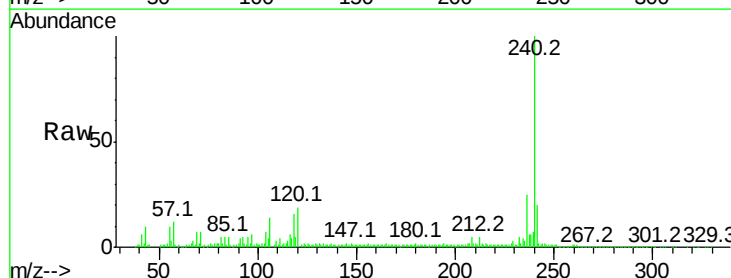
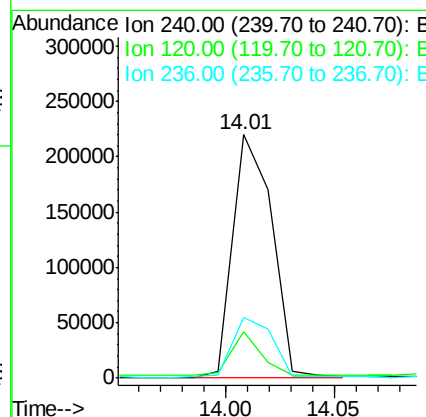
RT: 14.01 min Scan# 1043

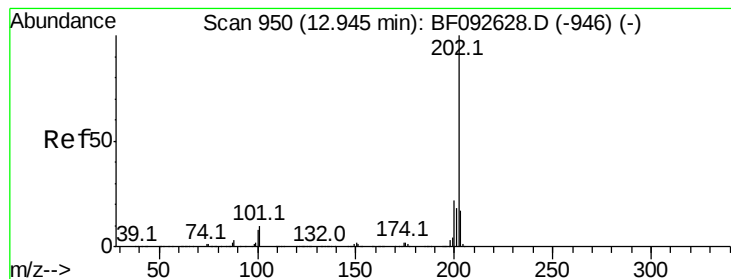
Delta R.T. -0.01 min

Lab File: BF093072.D

Acq: 21 Feb 2017 13:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 276103 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 19.3  | 12.9  | 19.3#  |
| 236       | 25.1  | 20.9  | 31.3   |





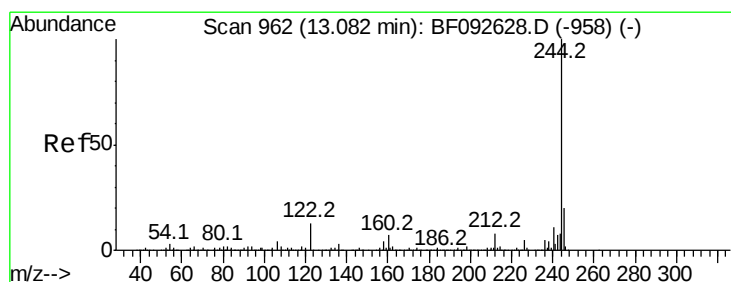
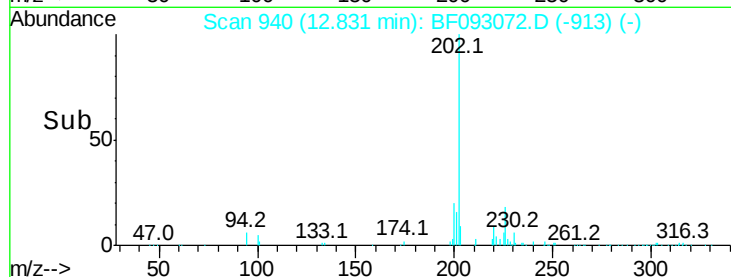
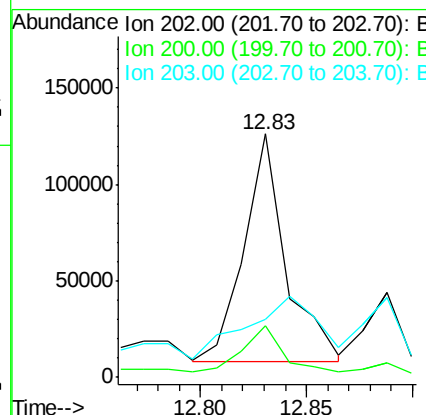
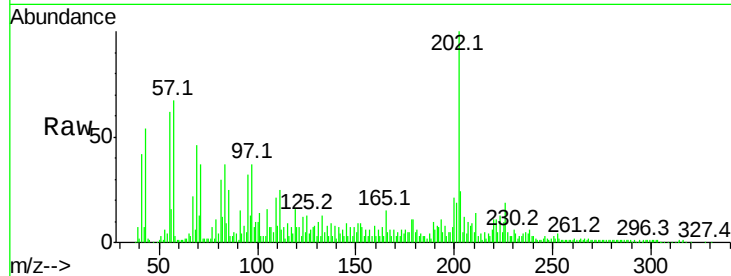
#77  
Pvrene  
Concen: 7.84 ng m  
RT: 12.83 min Scan# 940  
Delta R.T. 0.01 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

Instrument :  
BNA\_F  
ClientSampleId :  
HARMONBLDG30-RW-1RE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 21.1  | 17.7       | 26.5  |
| 203     | 24.1  | 14.7       | 22.1  |

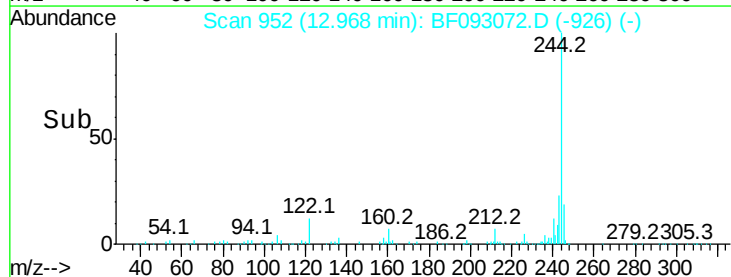
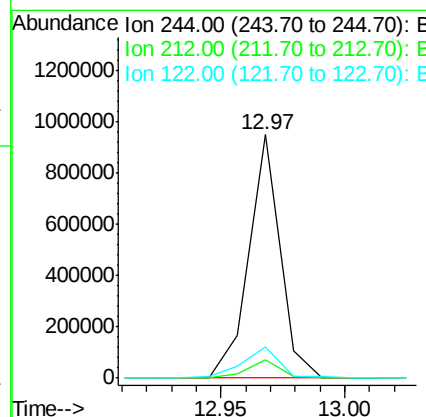
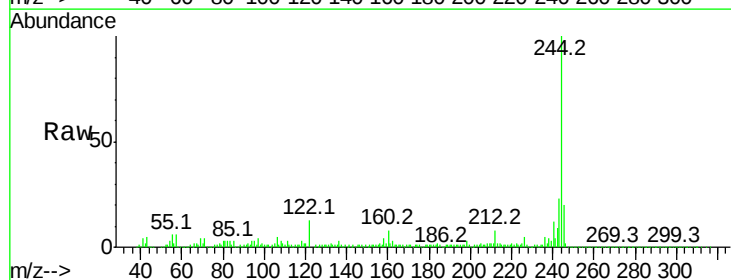
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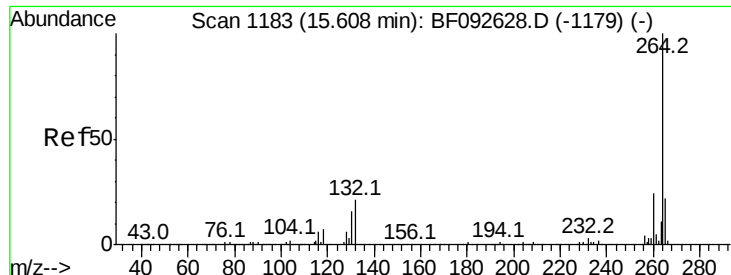
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#78  
Terphenyl-d14  
Concen: 71.98 ng m  
RT: 12.97 min Scan# 952  
Delta R.T. -0.00 min  
Lab File: BF093072.D  
Acq: 21 Feb 2017 13:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.6   | 6.2        | 9.2   |
| 122     | 12.8  | 11.4       | 17.2  |





#86  
 Pervlene-d12  
 Concen: 20.00 ng m  
 RT: 15.44 min Scan# 1168  
 Delta R.T. -0.01 min  
 Lab File: BF093072.D  
 Acq: 21 Feb 2017 13:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HARMONBLDG30-RW-1RE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 24.0  | 19.2       | 28.8  |
| 265     | 20.8  | 17.4       | 26.0  |

Manual Integrations  
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