

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022818\  
 Data File : BF103300.D  
 Acq On : 28 Feb 2018 18:30  
 Operator : SJ/JU  
 Sample : J1710-07 10X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-215

Manual Integrations  
 APPROVED

Sohil  
 3/1/2018 11:43:09 AM

Quant Time: Mar 01 00:43:01 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 27 17:05:20 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 147170   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.16  | 136  | 595920   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.91  | 164  | 238085   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.40 | 188  | 337650   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.06 | 240  | 259707   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.56 | 264  | 253179   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 99299    | 10.20 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 126959   | 10.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 78920    | 7.56  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330  | 14923    | 7.41  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 120019   | 4.78  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 69791    | 6.46  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.43 | 178  | 118407   | 6.372 | ng    | 98       |
| 74) Fluoranthene            | 12.62 | 202  | 124632   | 6.675 | ng    | 99       |
| 77) Pyrene                  | 12.85 | 202  | 110075   | 5.436 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.04 | 228  | 50781    | 3.014 | ng    | 96       |
| 82) Chrysene                | 14.08 | 228  | 49763    | 3.041 | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.12 | 252  | 58015m   | 3.485 | ng    |          |
| 89) Benzo(a)pyrene          | 15.49 | 252  | 40295    | 2.711 | ng    | # 84     |

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

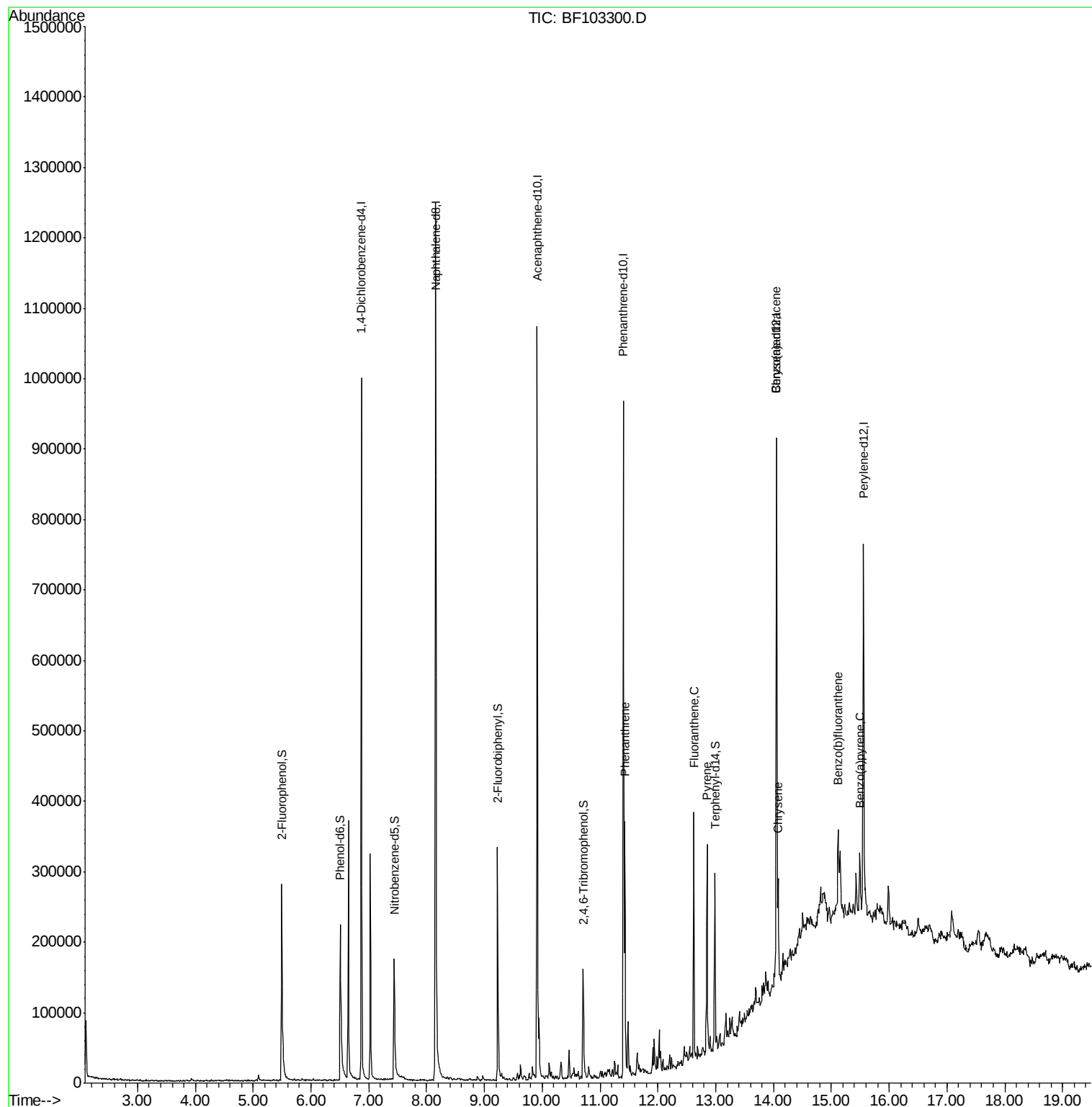
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022818\  
Data File : BF103300.D  
Acq On : 28 Feb 2018 18:30  
Operator : SJ/JU  
Sample : J1710-07 10X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-215

Manual Integrations  
APPROVED

Sohil  
3/1/2018 11:43:09 AM

Quant Time: Mar 01 00:43:01 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 27 17:05:20 2018  
Response via : Initial Calibration





#1

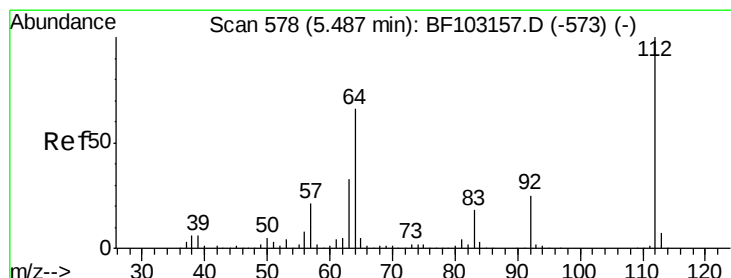
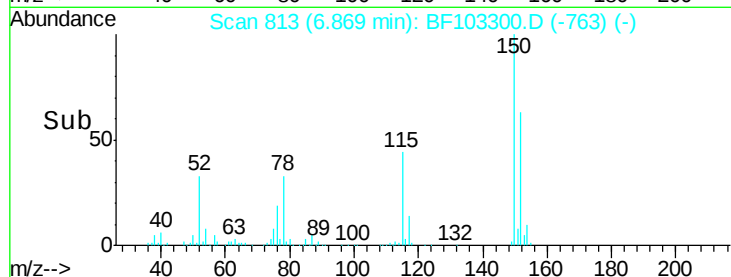
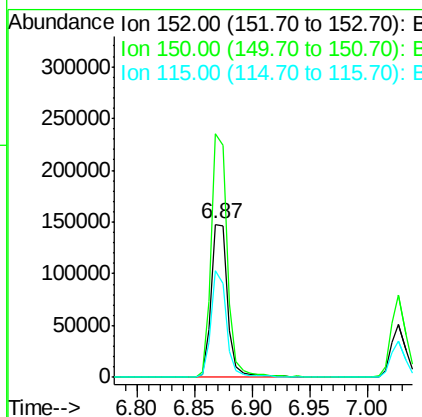
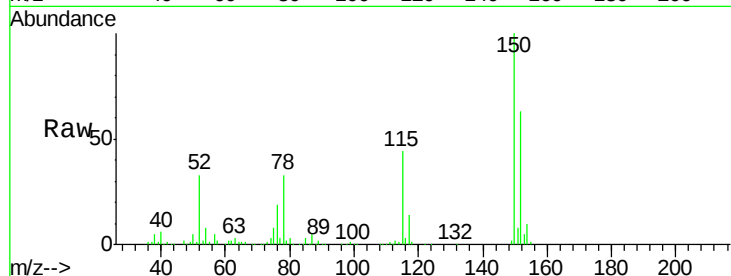
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

Instrument :  
BNA\_F  
ClientSampleId :  
RO-215

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.0 | 124.6 | 186.8 |
| 115     | 69.4  | 50.1  | 75.1  |

Manual Integrations  
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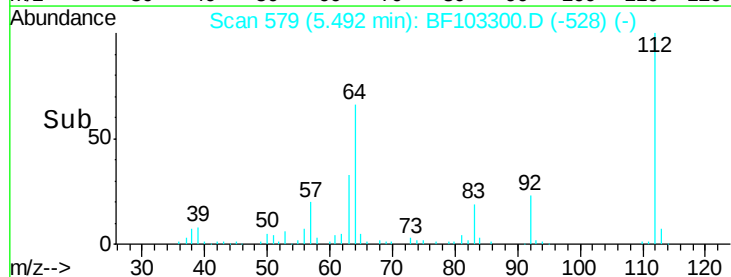
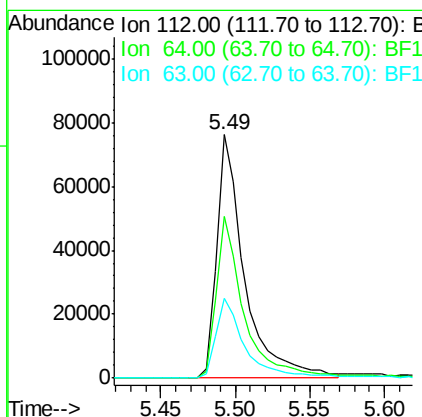
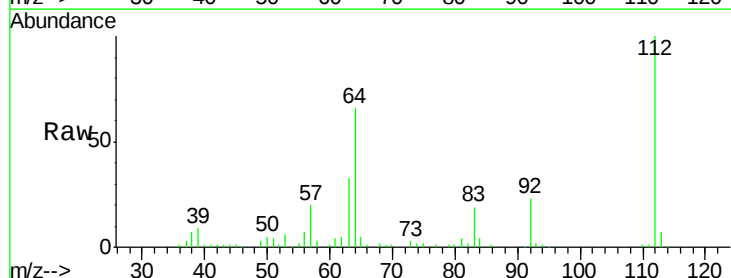
Sohil  
3/1/2018 11:43:09 AM



#5

2-Fluorophenol  
Concen: 10.205 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.2  | 47.9  | 71.9  |
| 63      | 32.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 10.663 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

Instrument :

BNA\_F

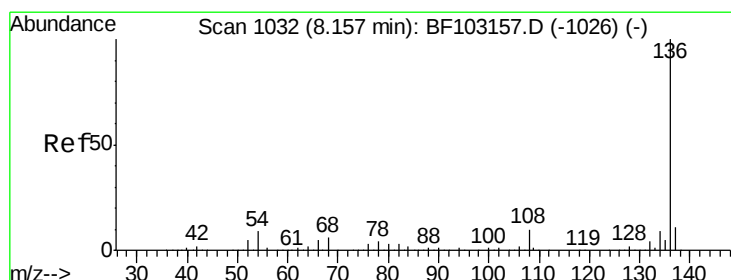
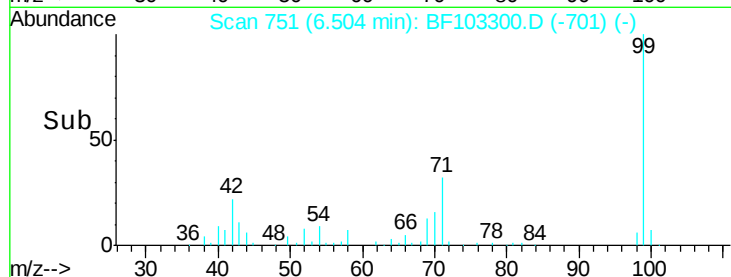
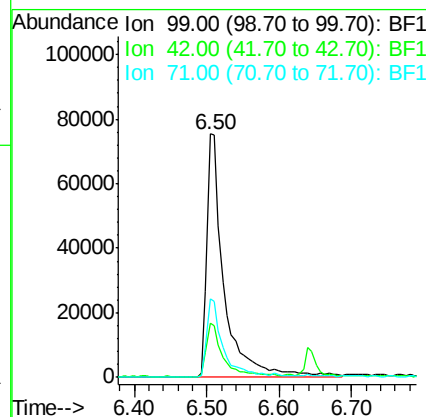
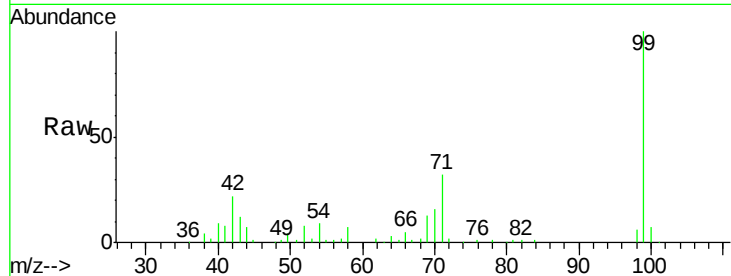
ClientSampled :

RO-215

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 126959 |       |       |
| 42      | 22.3 | 14.5  | 21.7#  |       |       |
| 71      | 32.3 | 25.4  | 38.0   |       |       |

Manual Integrations  
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#21

Naphthalene-d8

Concen: 20.000 ng

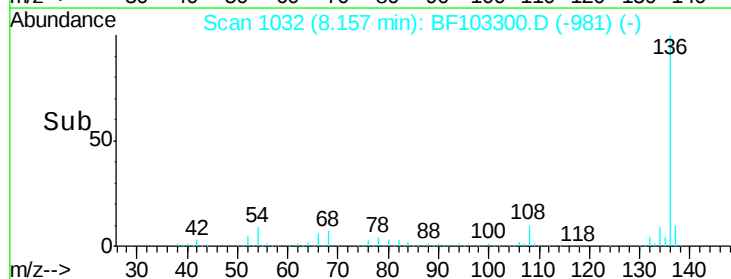
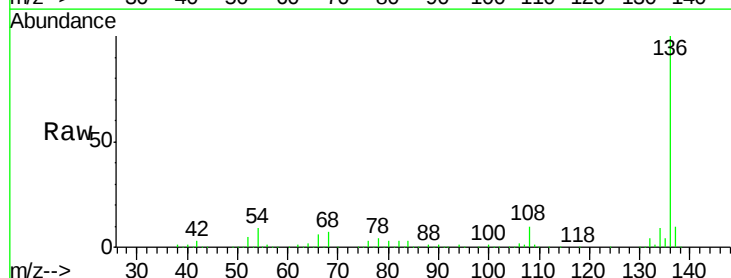
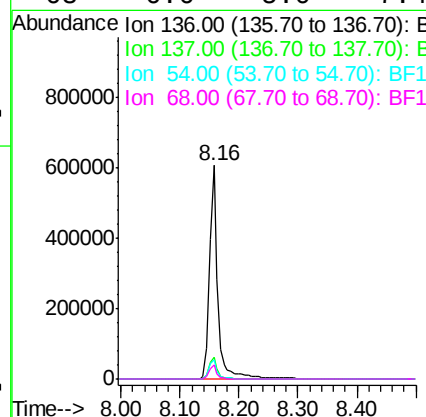
RT: 8.16 min Scan# 1032

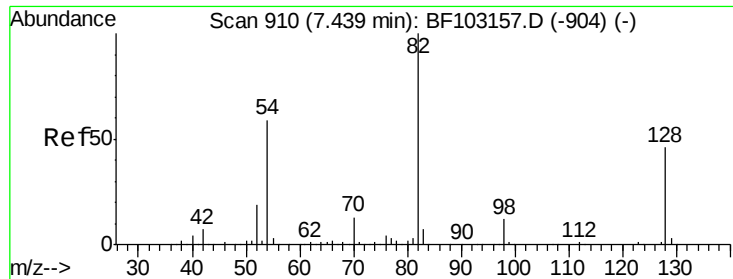
Delta R.T. -0.00 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 595920 |       |       |
| 137     | 10.5 | 8.9   | 13.3   |       |       |
| 54      | 9.0  | 6.6   | 9.8    |       |       |
| 68      | 6.6  | 5.0   | 7.4    |       |       |





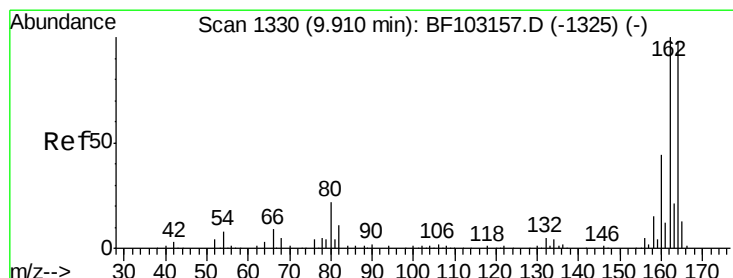
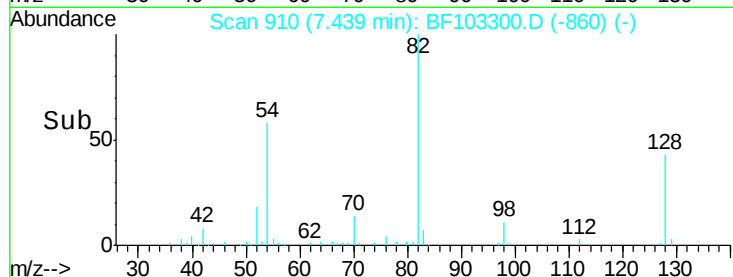
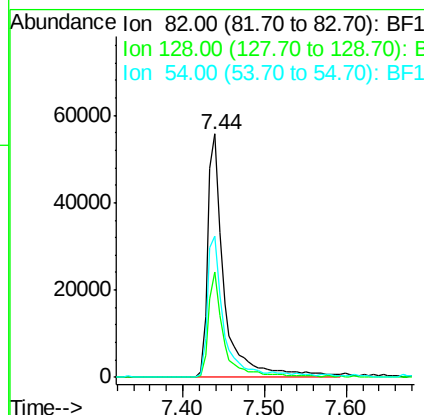
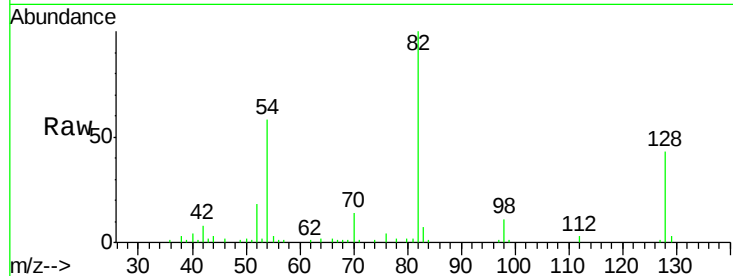
#23  
Nitrobenzene-d5  
Concen: 7.563 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

Instrument :  
BNA\_F  
ClientSampled :  
RO-215

| Tot Ion   | 82   | Resp  | 78920 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 82        | 100  |       |       |
| 128       | 43.1 | 36.1  | 54.1  |
| 54        | 58.3 | 41.4  | 62.2  |

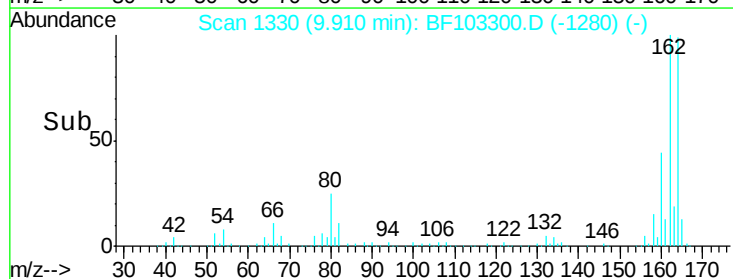
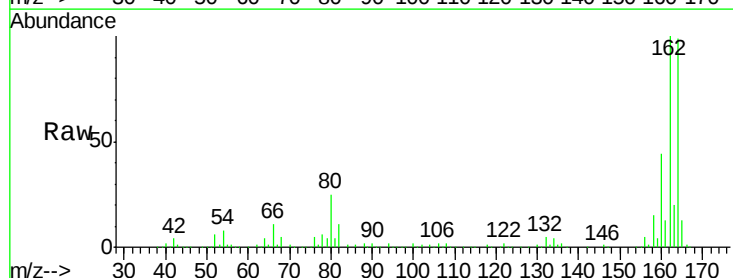
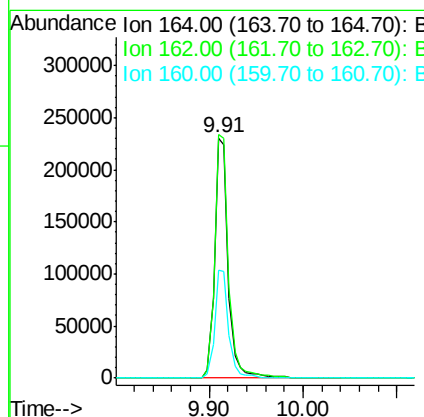
Manual Integrations  
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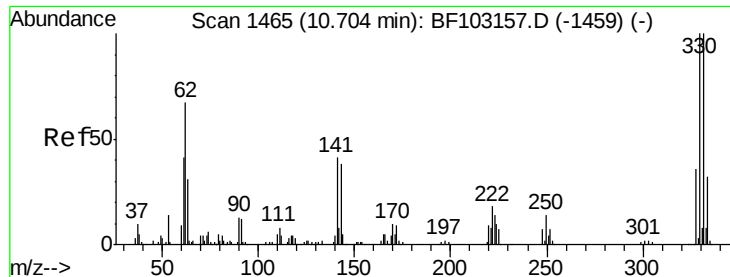
Sohil  
3/1/2018 11:43:09 AM



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

| Tgt Ion   | 164   | Resp  | 238085 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 101.4 | 86.1  | 129.1  |
| 160       | 45.0  | 38.3  | 57.5   |





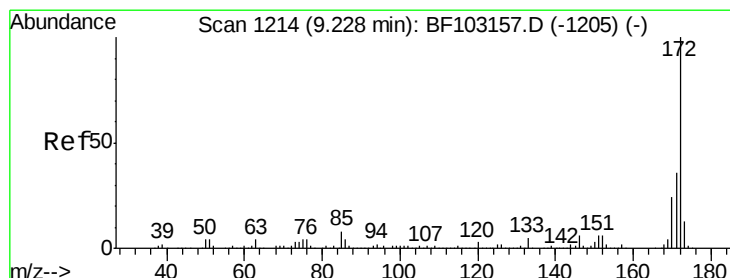
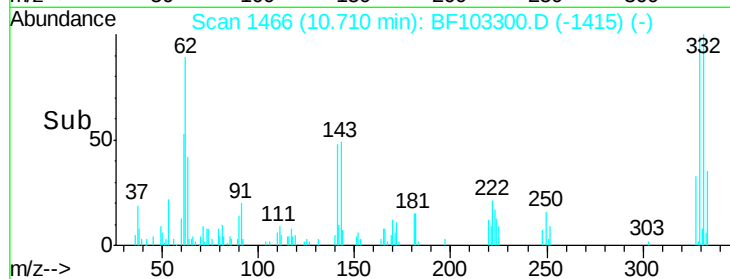
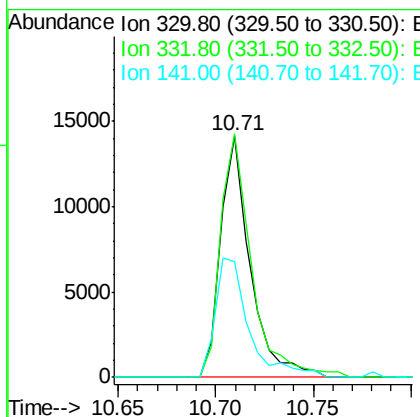
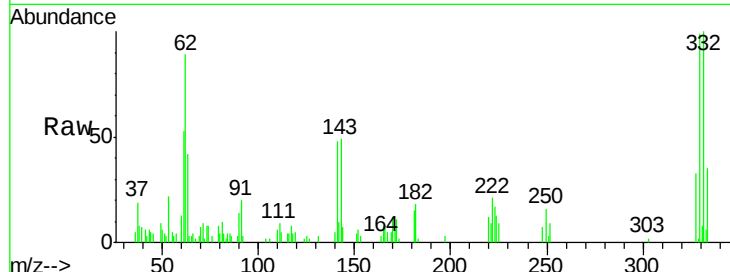
#41  
 2,4,6-Tribromophenol  
 Concen: 7.405 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: BF103300.D  
 Acq: 28 Feb 2018 18:30

Instrument :  
 BNA\_F  
 ClientSampled :  
 RO-215

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 105.7 | 77.0  | 115.6 |
| 141     | 56.1  | 29.9  | 44.9  |

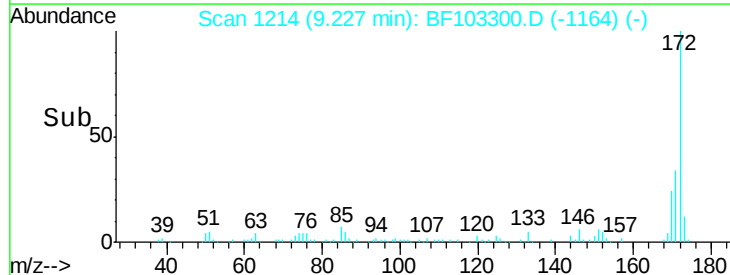
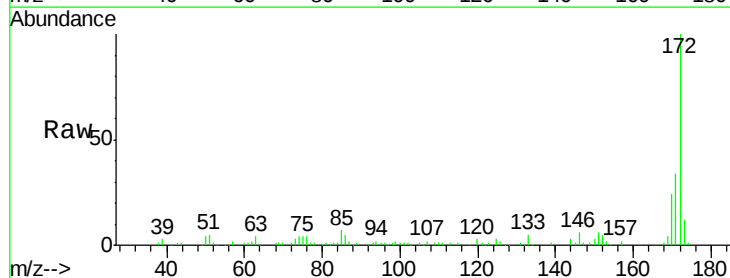
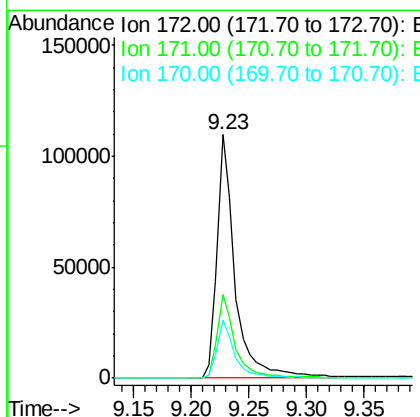
Manual Integrations  
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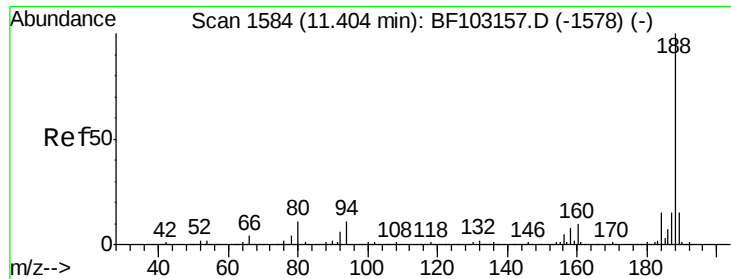
Sohil  
 3/1/2018 11:43:09 AM



#44  
 2-Fluorobiphenyl  
 Concen: 4.777 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF103300.D  
 Acq: 28 Feb 2018 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 29.7  | 44.5  |
| 170     | 24.0  | 19.6  | 29.4  |





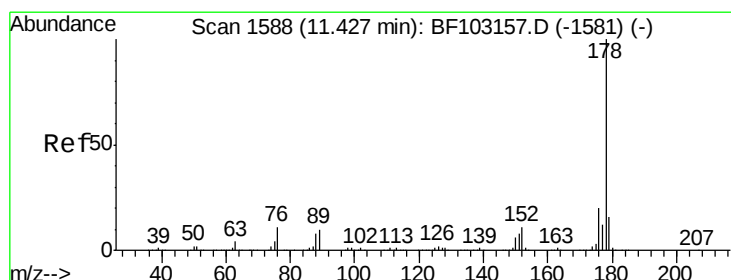
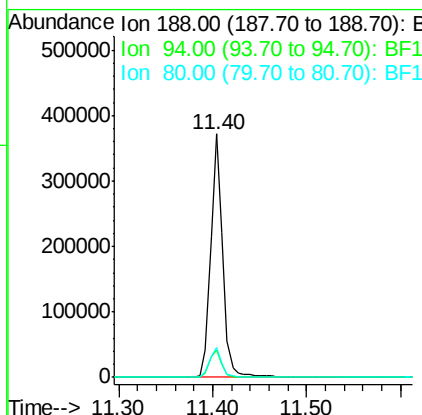
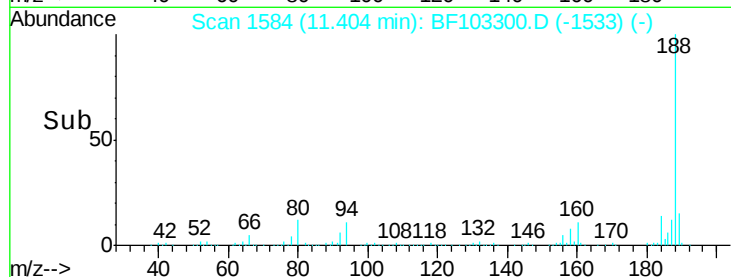
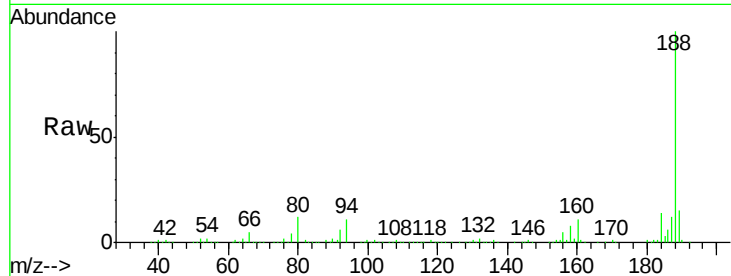
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.00 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

Instrument :  
BNA\_F  
ClientSampled :  
RO-215

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 337650 |       |       |
| 94      | 11.1  |        | 8.5   | 12.7  |
| 80      | 12.4  |        | 9.2   | 13.8  |

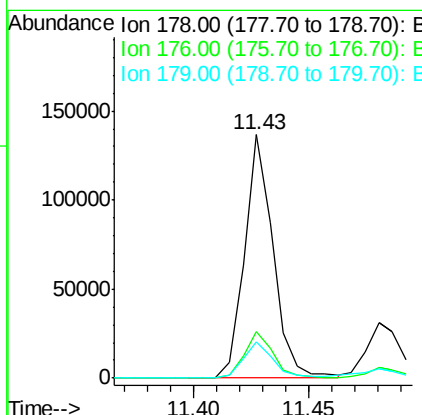
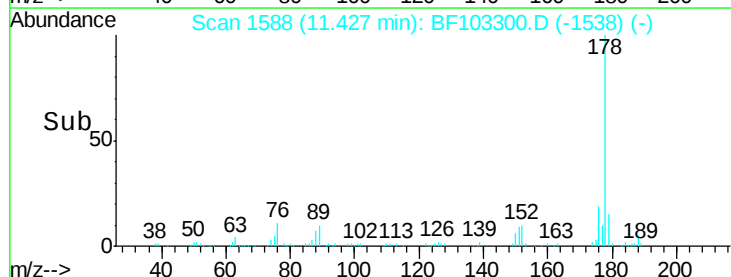
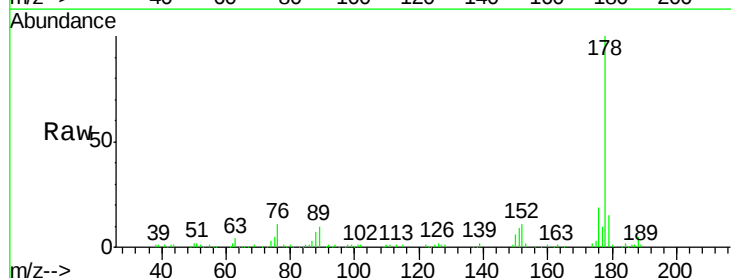
Manual Integrations  
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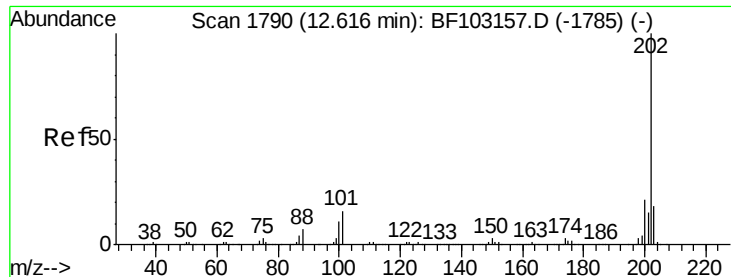
Sohil  
3/1/2018 11:43:09 AM



#70  
Phenanthrene  
Concen: 6.372 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 118407 |       |       |
| 176     | 19.2  |        | 15.8  | 23.8  |
| 179     | 14.9  |        | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 6.675 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

Instrument :

BNA\_F

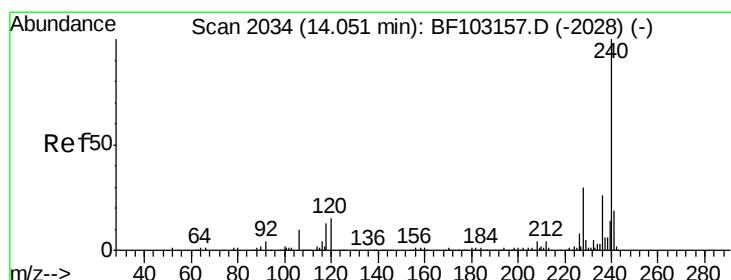
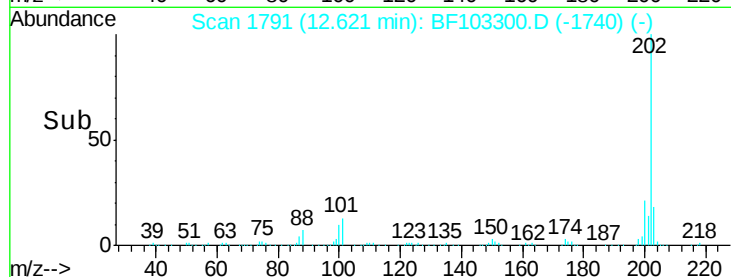
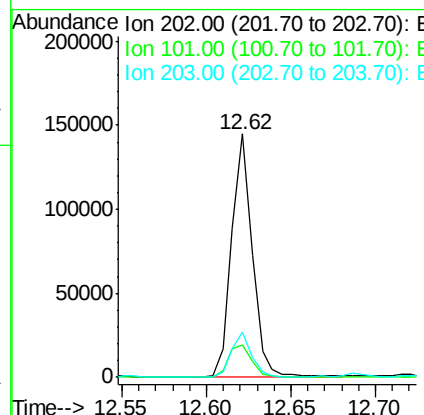
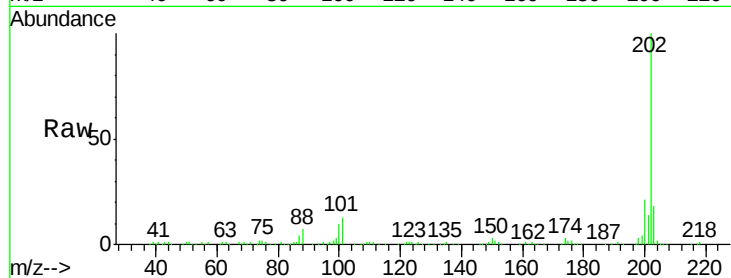
ClientSampled :

RO-215

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 13.3 | 0.0   | 34.1 |       |       |
| 203     | 18.5 | 0.0   | 38.1 |       |       |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

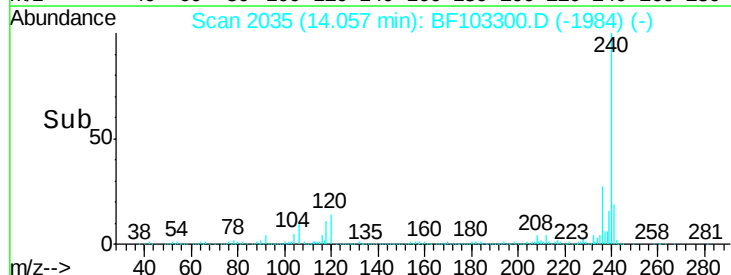
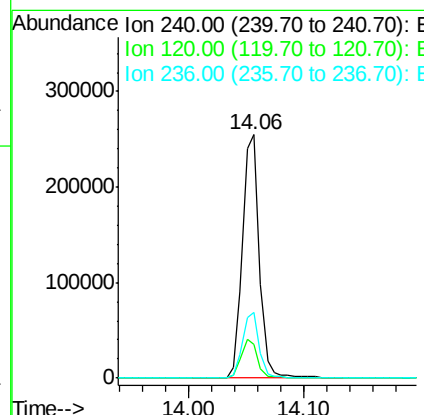
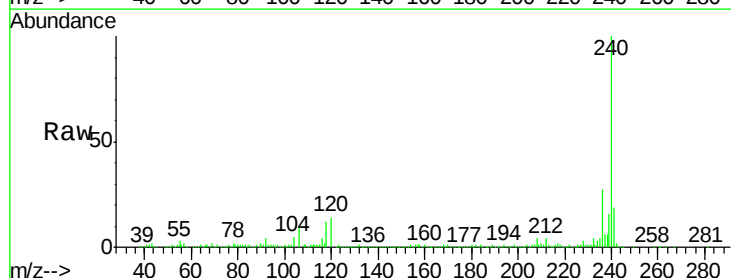
RT: 14.06 min Scan# 2035

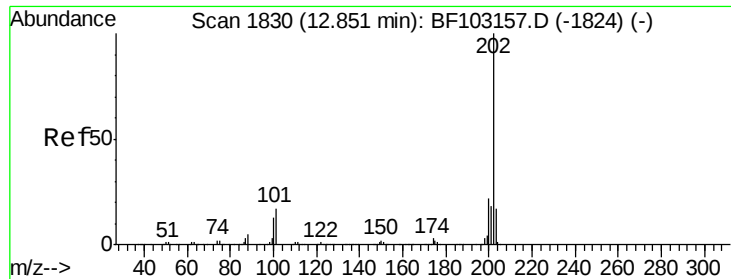
Delta R.T. -0.00 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 240     | 100  |       |      |       |       |
| 120     | 13.9 | 9.5   | 14.3 |       |       |
| 236     | 27.1 | 20.7  | 31.1 |       |       |





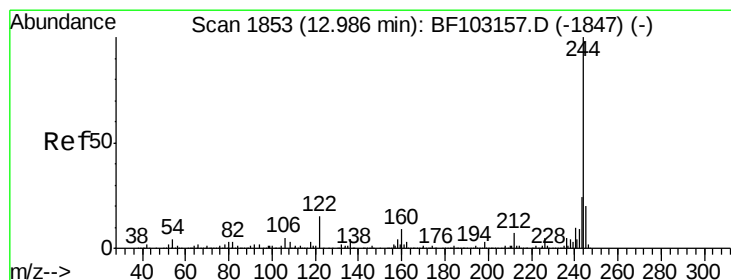
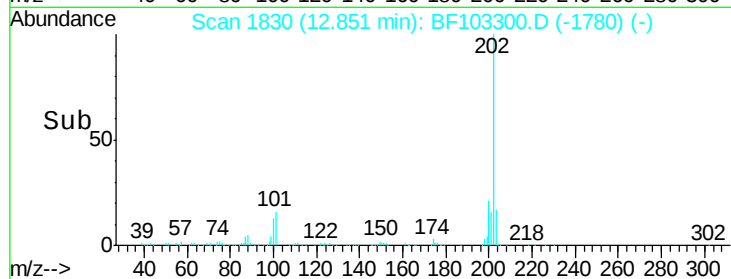
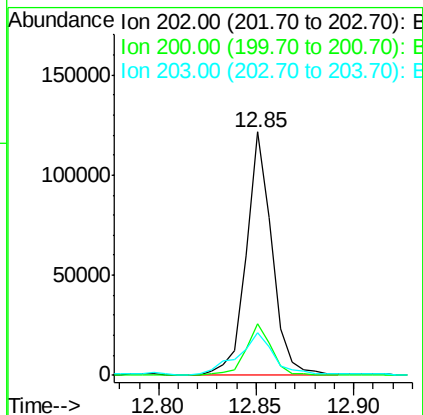
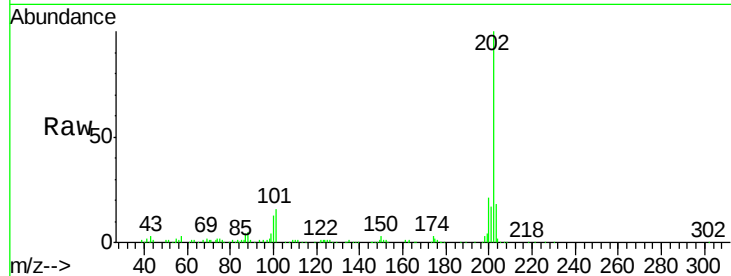
#77  
Pvrene  
Concen: 5.436 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

Instrument :  
BNA\_F  
ClientSampleId :  
RO-215

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.9  | 17.4       | 26.2  |
| 203     | 17.8  | 14.3       | 21.5  |

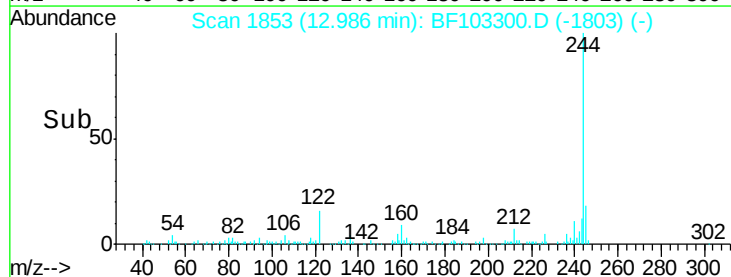
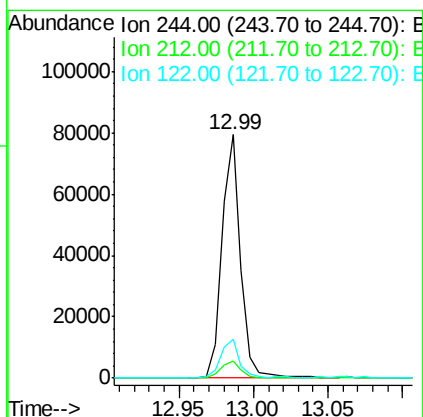
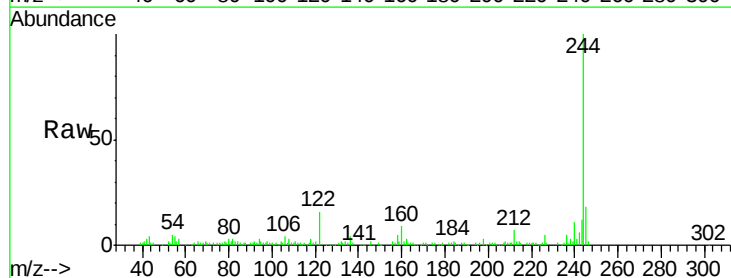
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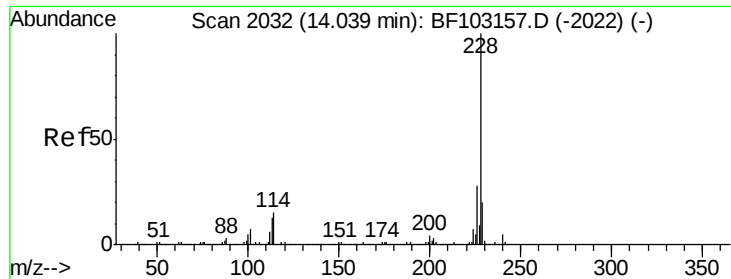
Sohil  
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#78  
Terphenyl-d14  
Concen: 6.460 ng  
RT: 12.99 min Scan# 1853  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.1   | 5.4        | 8.0   |
| 122     | 16.1  | 11.0       | 16.4  |





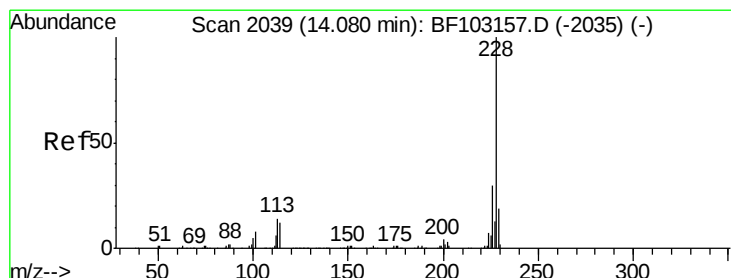
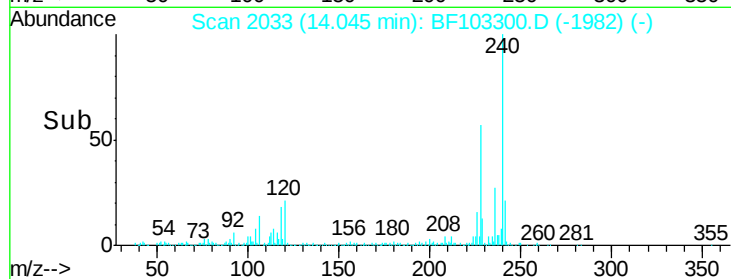
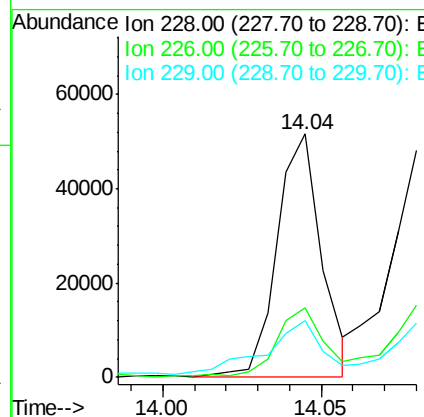
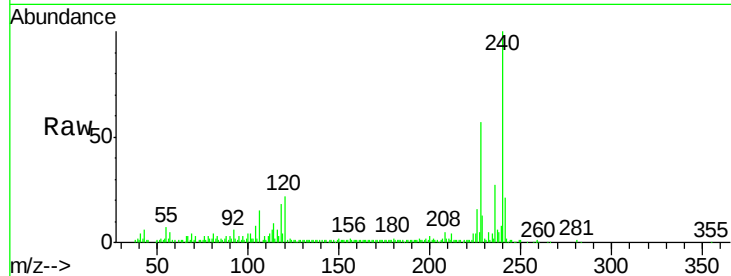
#80  
Benzo(a)anthracene  
Concen: 3.014 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. -0.00 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

Instrument :  
BNA\_F  
ClientSampleId :  
RO-215

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.7  | 22.6  | 33.8  |
| 229     | 23.4  | 15.8  | 23.6  |

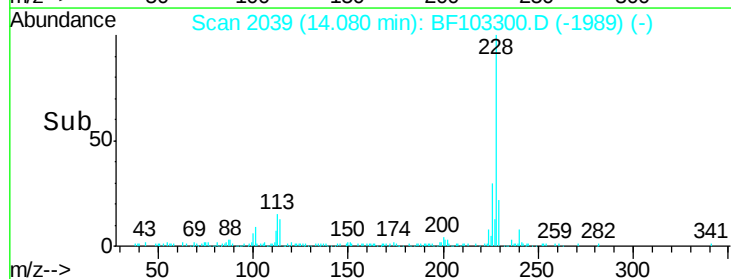
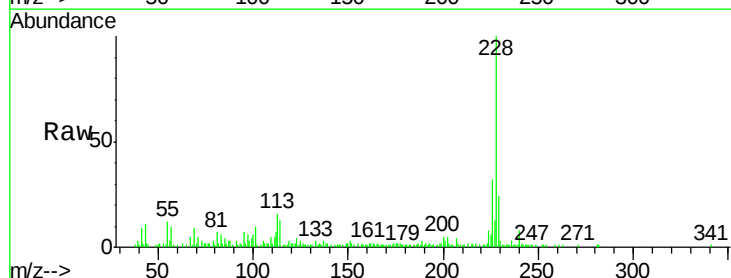
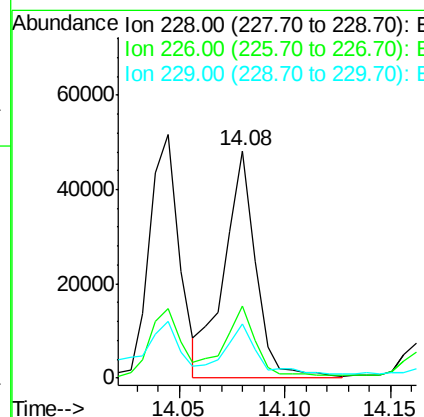
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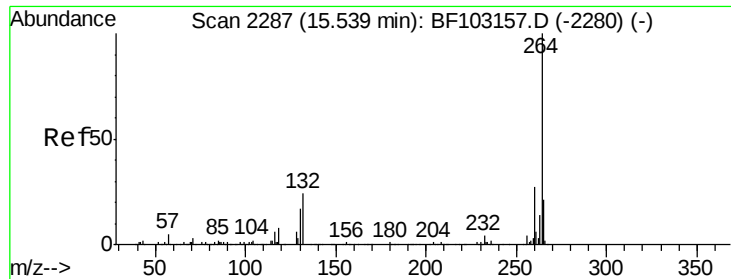
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#82  
Chrysene  
Concen: 3.041 ng  
RT: 14.08 min Scan# 2039  
Delta R.T. -0.01 min  
Lab File: BF103300.D  
Acq: 28 Feb 2018 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.7  | 25.0  | 37.6  |
| 229     | 23.7  | 16.2  | 24.4  |





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.56 min Scan# 2290

Delta R.T. -0.00 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

Instrument :

BNA\_F

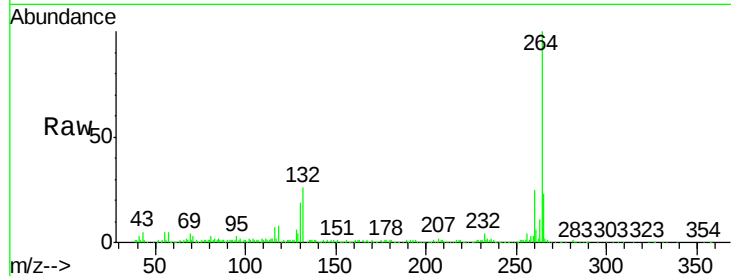
ClientSampled :

RO-215

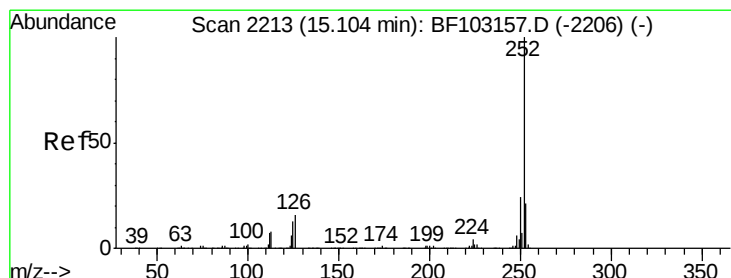
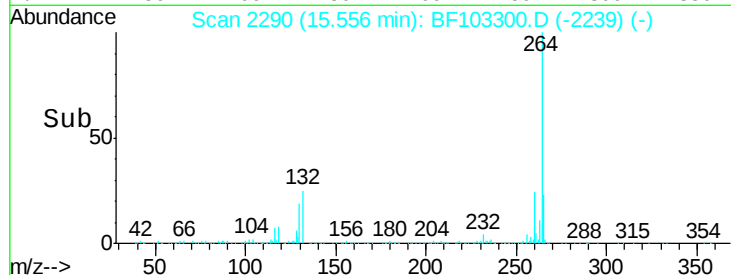
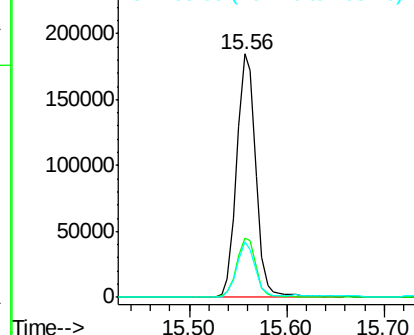
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 264  | Resp: | 253179 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 24.6 | 19.2  | 28.8   |
| 265       | 22.8 | 17.5  | 26.3   |

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Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 3.485 ng m

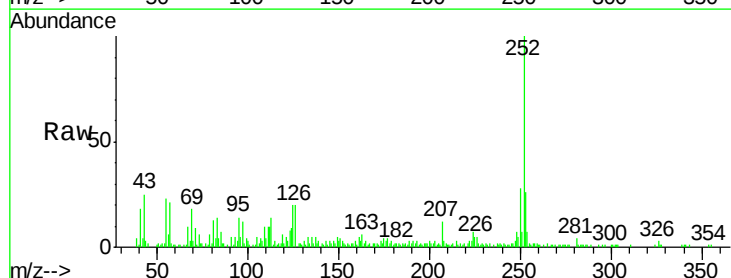
RT: 15.12 min Scan# 2215

Delta R.T. -0.00 min

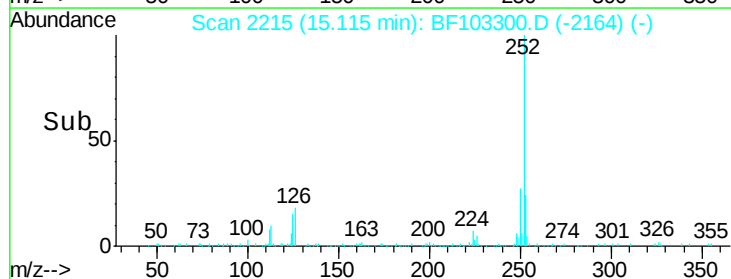
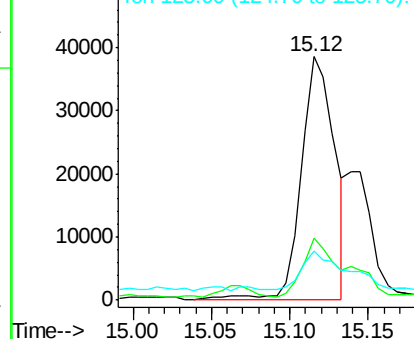
Lab File: BF103300.D

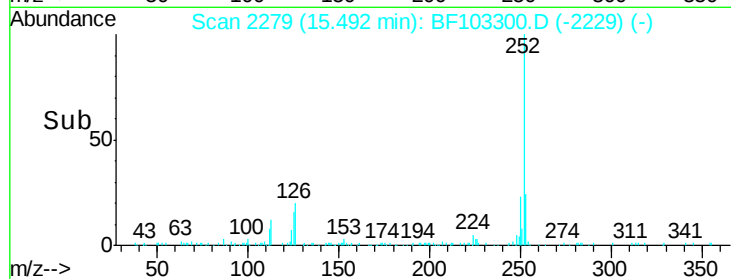
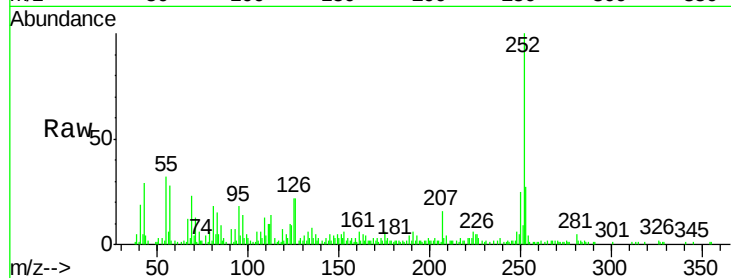
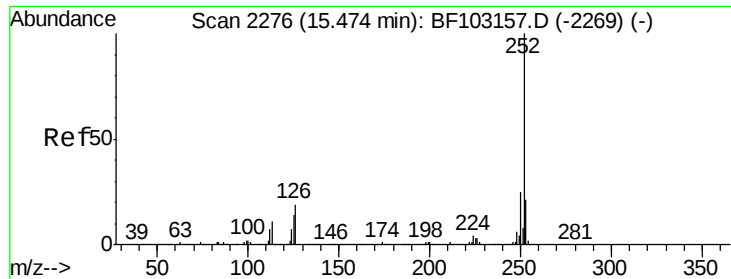
Acq: 28 Feb 2018 18:30

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 58015 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 25.6 | 17.0  | 25.6# |
| 125       | 20.3 | 9.0   | 13.6# |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.711 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BF103300.D

Acq: 28 Feb 2018 18:30

Instrument :

BNA\_F

ClientSampleId :

RO-215

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 40295 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.6  | 17.1  | 25.7# |
| 125       | 22.0  | 9.8   | 14.6# |

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