

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111517\  
 Data File : BF100582.D  
 Acq On : 15 Nov 2017 12:35  
 Operator : SJ/JU  
 Sample : I6441-03 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-11A-11B

Manual Integrations  
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 11/16/2017 6:18:26 PM

Quant Time: Nov 15 13:51:41 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 15 13:27:38 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.88  | 152  | 122389   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.16  | 136  | 473123   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.92  | 164  | 206717   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.40 | 188  | 327405   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.04 | 240  | 248902   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.52 | 264  | 276202   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 155708   | 20.39 | ng    | -0.01    |
| 7) Phenol-d6                | 6.50  | 99   | 191949   | 20.39 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 112541   | 15.73 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 37540    | 17.82 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 195383   | 14.39 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.98 | 244  | 107959   | 9.97  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 70) Phenanthrene            | 11.43 | 178  | 68815    | 3.992 | ng    | 97       |
| 74) Fluoranthene            | 12.62 | 202  | 113642   | 6.220 | ng    | 96       |
| 77) Pyrene                  | 12.85 | 202  | 107858   | 6.079 | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.03 | 228  | 64479    | 4.302 | ng    | 98       |
| 82) Chrysene                | 14.06 | 228  | 54880    | 3.781 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.99 | 276  | 32540    | 2.772 | ng    | # 92     |
| 87) Benzo(b)fluoranthene    | 15.08 | 252  | 78580m   | 4.802 | ng    |          |
| 89) Benzo(a)pyrene          | 15.45 | 252  | 61129    | 4.214 | ng    | 96       |
| 91) Benzo(g,h,i)perylene    | 17.44 | 276  | 30817    | 2.654 | ng    | # 87     |

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

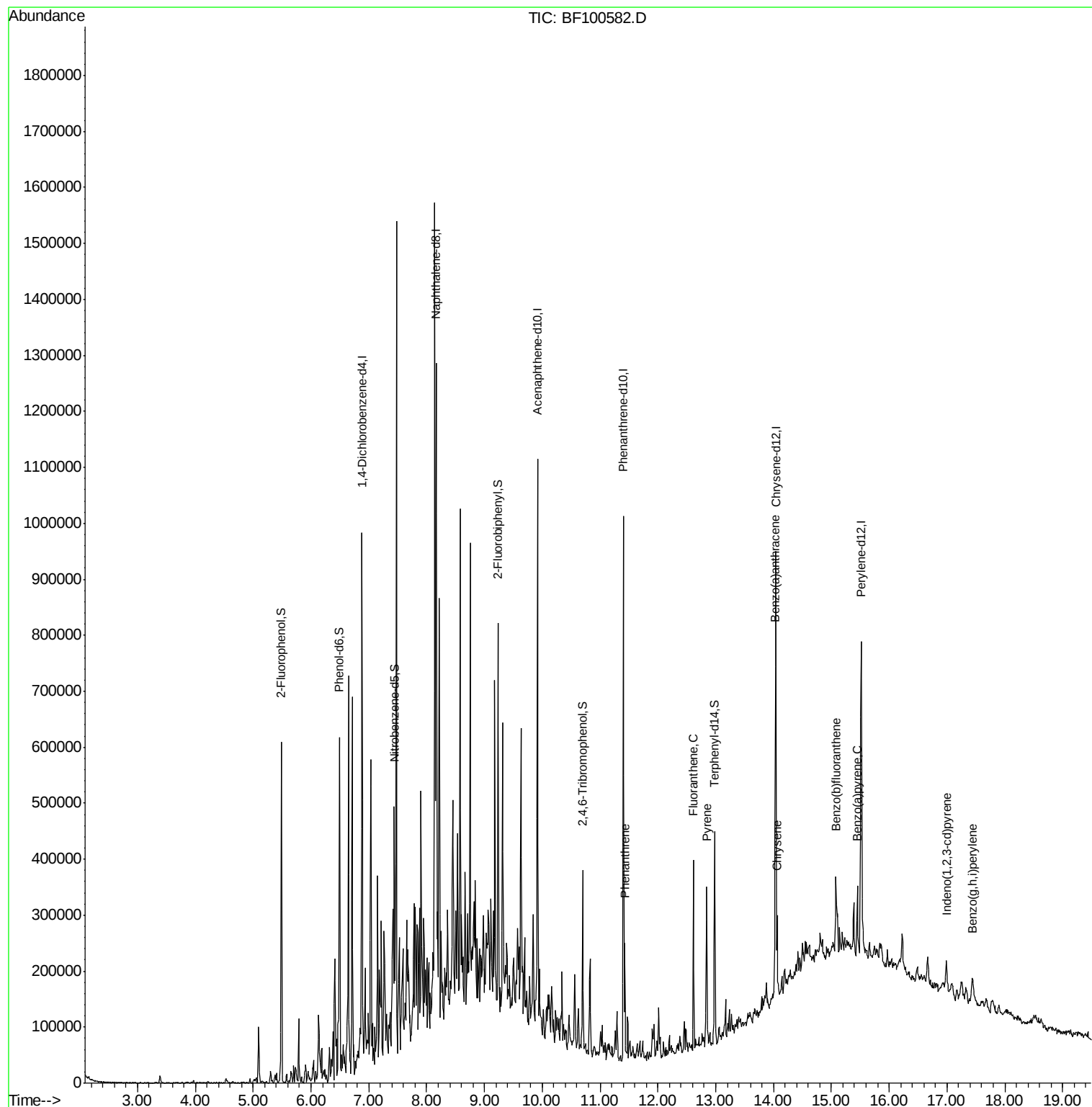
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111517\  
Data File : BF100582.D  
Acq On : 15 Nov 2017 12:35  
Operator : SJ/JU  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
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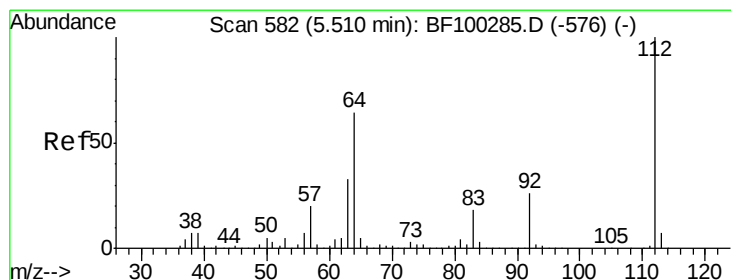
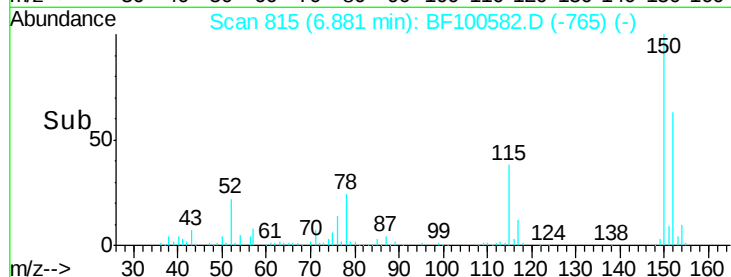
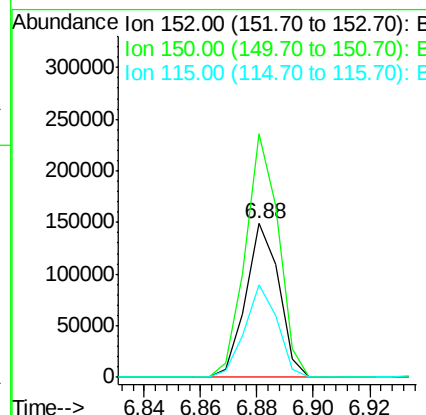
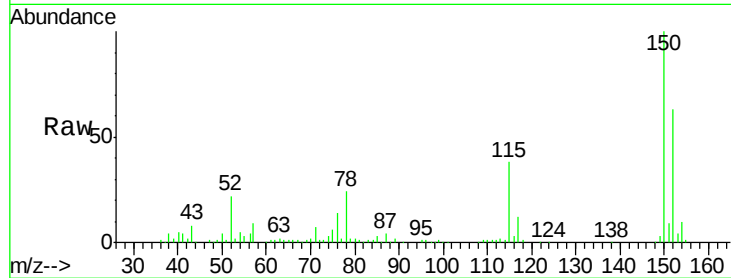
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.88 min Scan# 815  
 Delta R.T. -0.01 min  
 Lab File: BF100582.D  
 Acq: 15 Nov 2017 12:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-11A-11B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.5 | 124.6 | 186.8 |
| 115     | 60.7  | 50.1  | 75.1  |

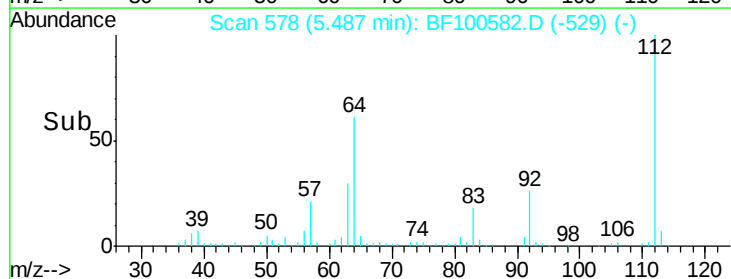
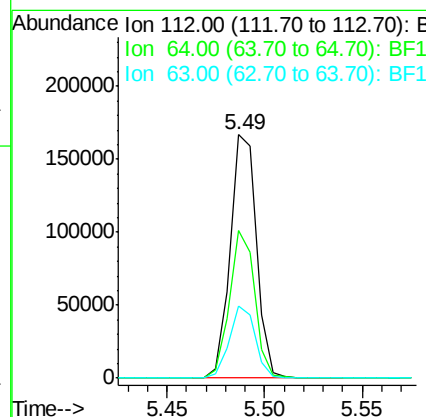
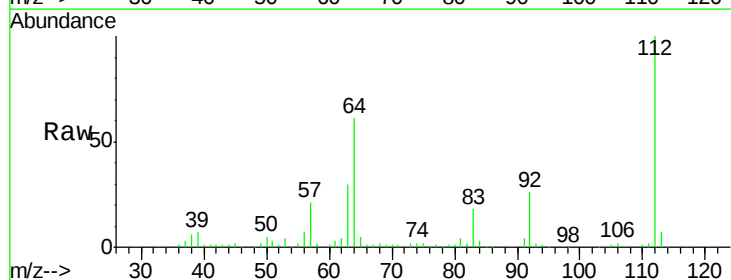
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#5  
 2-Fluorophenol  
 Concen: 20.394 ng  
 RT: 5.49 min Scan# 578  
 Delta R.T. -0.01 min  
 Lab File: BF100582.D  
 Acq: 15 Nov 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.6  | 47.9  | 71.9  |
| 63      | 29.6  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 20.388 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.02 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

Instrument :

BNA\_F

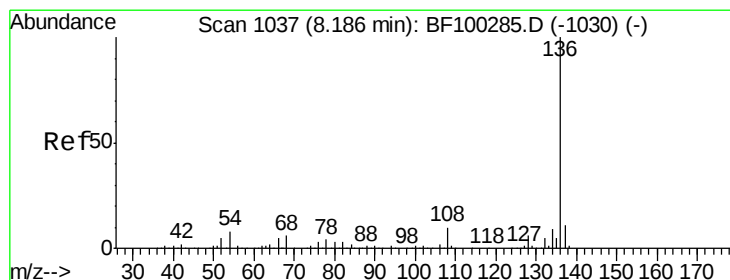
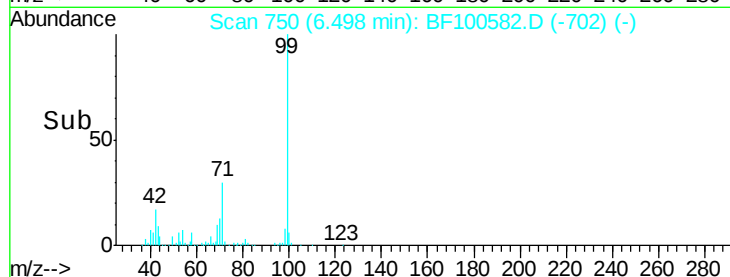
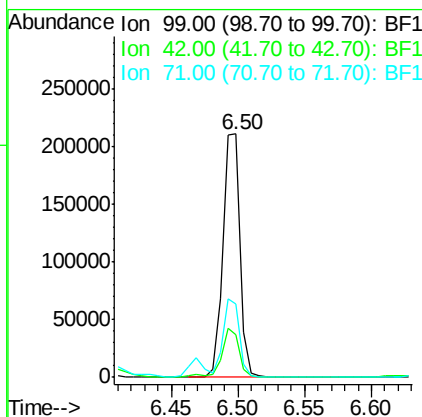
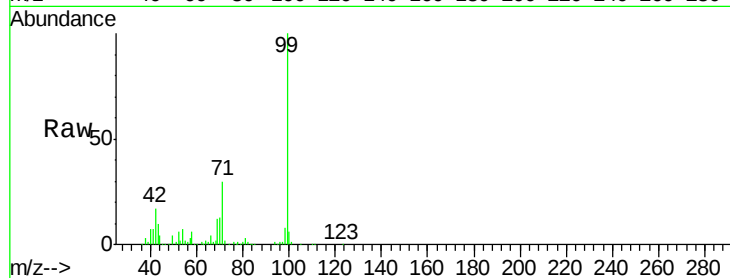
ClientSampled :

TP-11A-11B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 191949 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.5  | 14.5  | 21.7   |
| 71       | 30.3  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

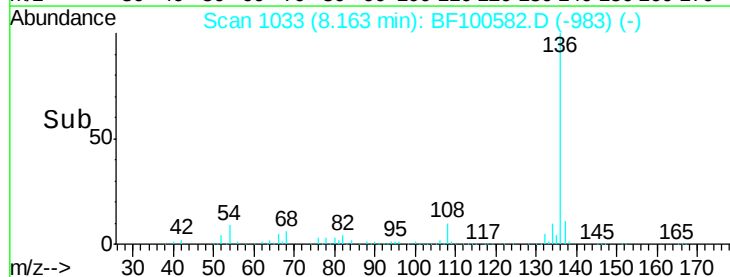
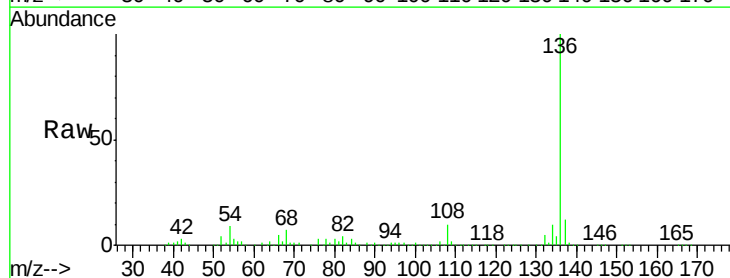
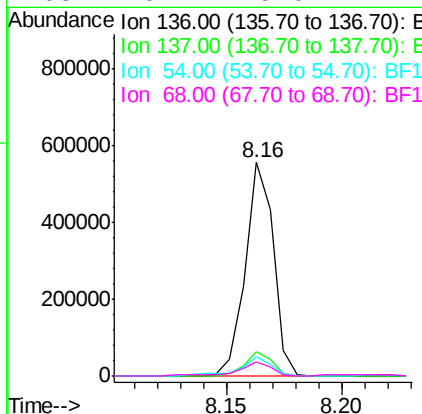
RT: 8.16 min Scan# 1033

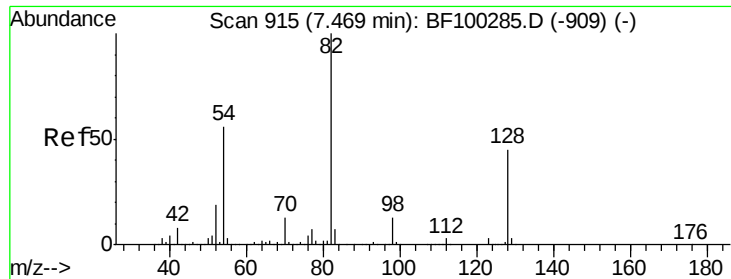
Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 473123 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.6  | 8.9   | 13.3   |
| 54       | 9.1   | 6.6   | 9.8    |
| 68       | 6.7   | 5.0   | 7.4    |





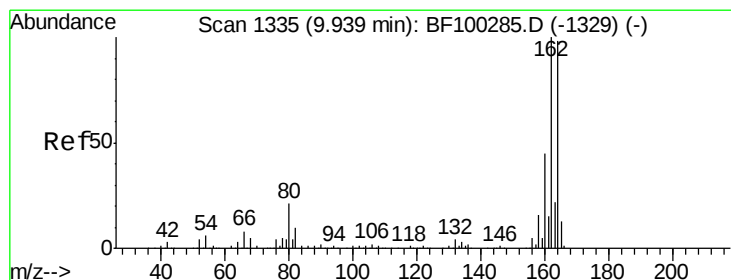
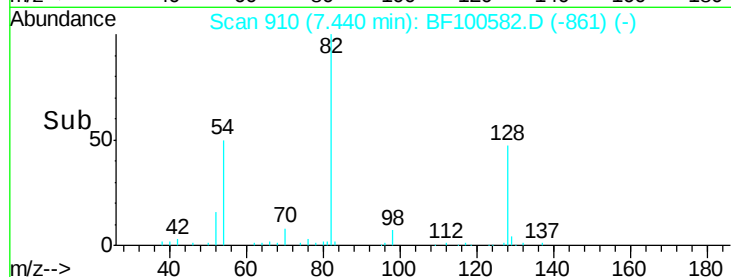
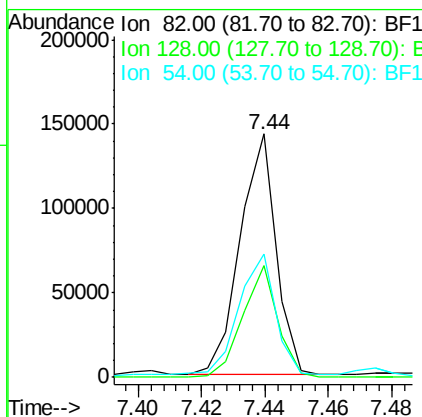
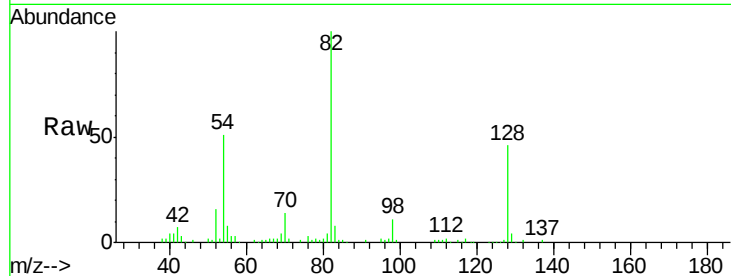
#23  
Nitrobenzene-d5  
Concen: 15.726 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 112541 |       |       |
| 128     | 46.1  | 36.1   | 54.1  |       |
| 54      | 50.8  | 41.4   | 62.2  |       |

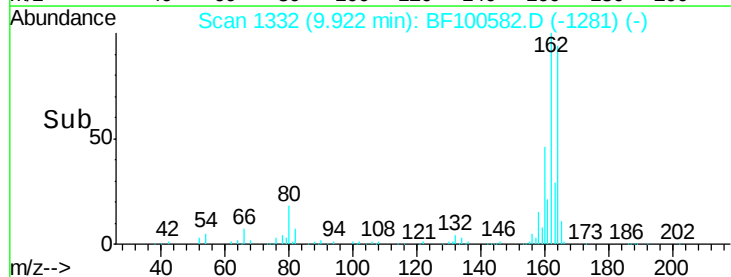
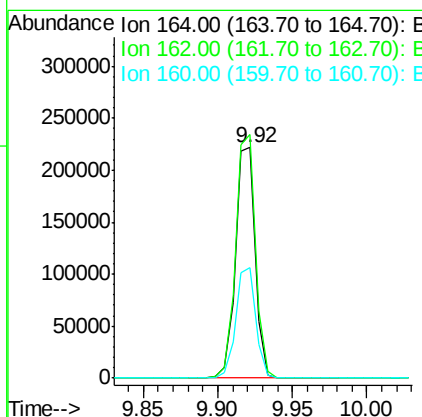
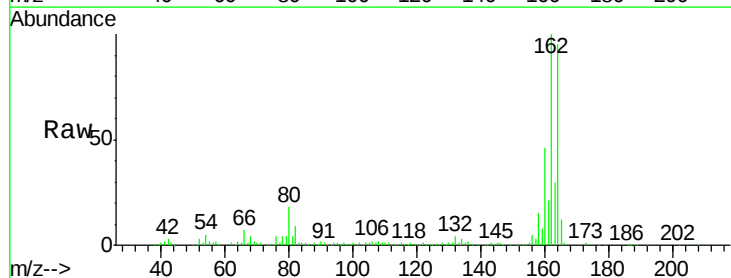
Manual Integrations  
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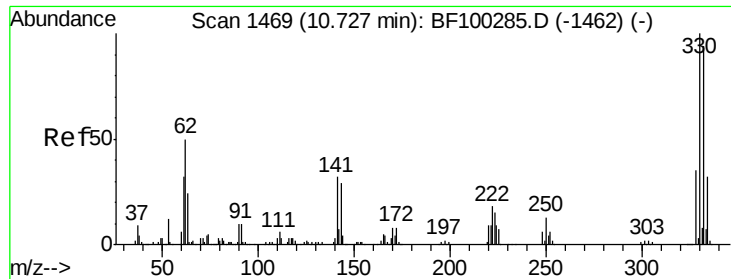
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.00 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 206717 |       |       |
| 162     | 105.7 | 86.1   | 129.1 |       |
| 160     | 48.1  | 38.3   | 57.5  |       |





#41

2,4,6-Tribromophenol

Concen: 17.821 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

Instrument :

BNA\_F

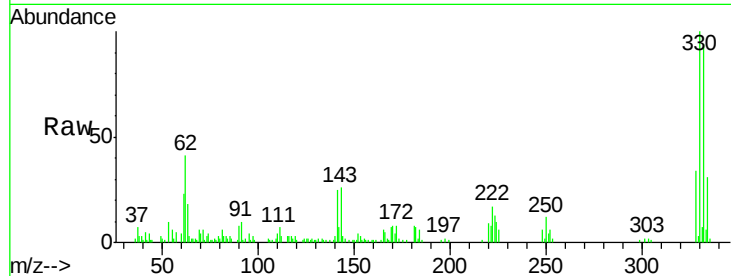
ClientSampleId :

TP-11A-11B

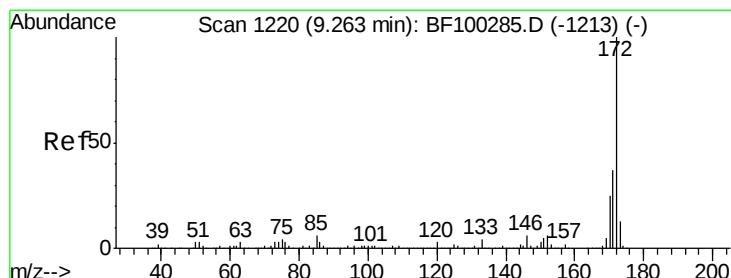
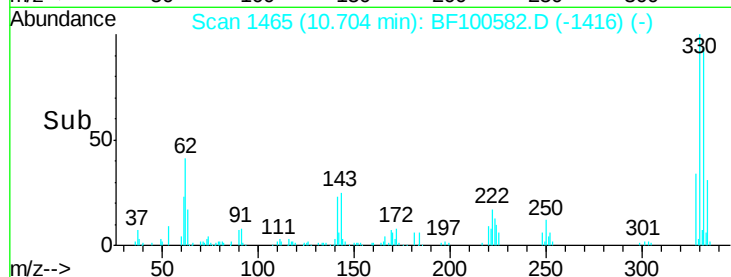
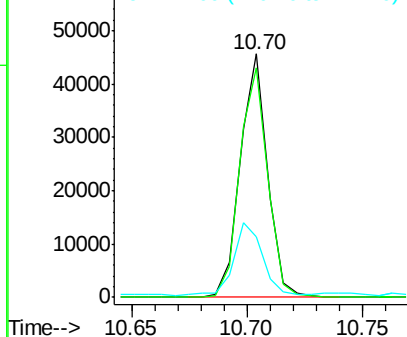
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 330   | Resp: | 37540 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 97.1  | 77.0  | 115.6 |
| 141       | 31.2  | 29.9  | 44.9  |

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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: 14.392 ng

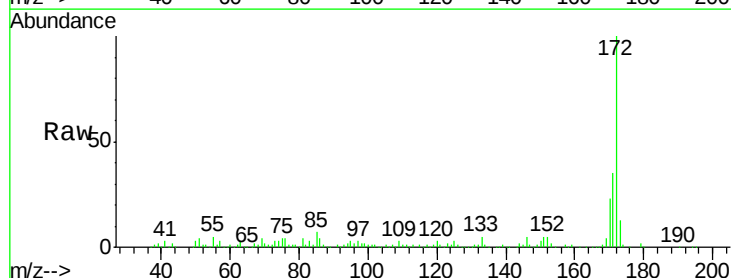
RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

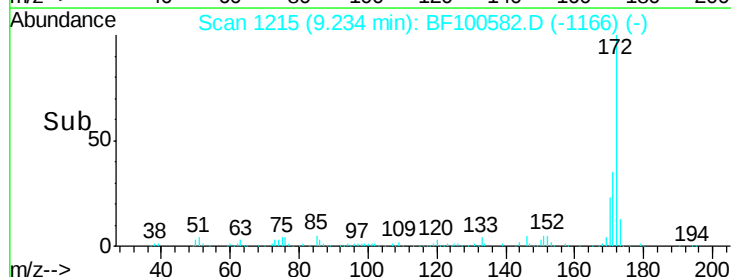
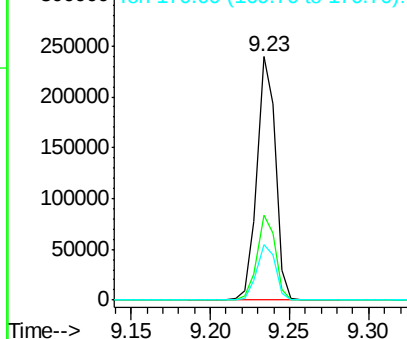
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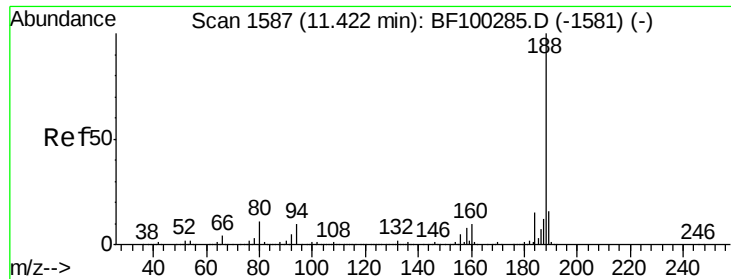
Acq: 15 Nov 2017 12:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 195383 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.0  | 29.7  | 44.5   |
| 170       | 22.9  | 19.6  | 29.4   |



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

Instrument :

BNA\_F

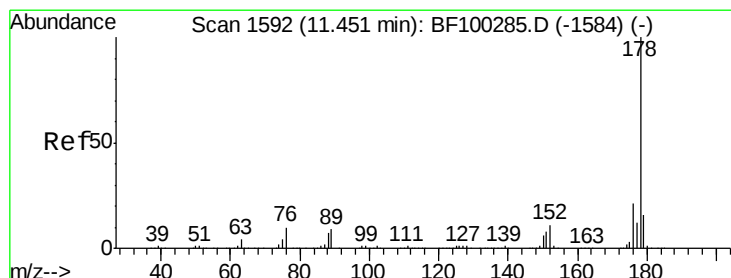
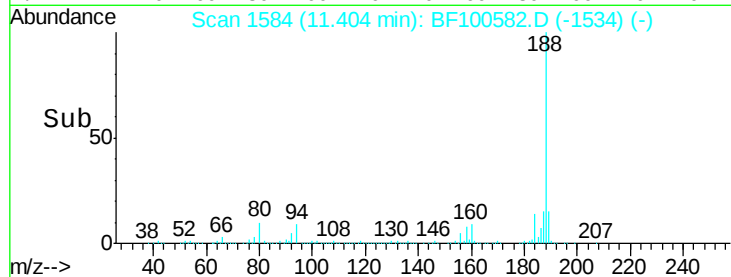
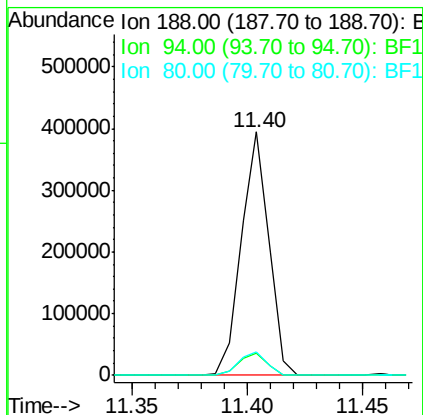
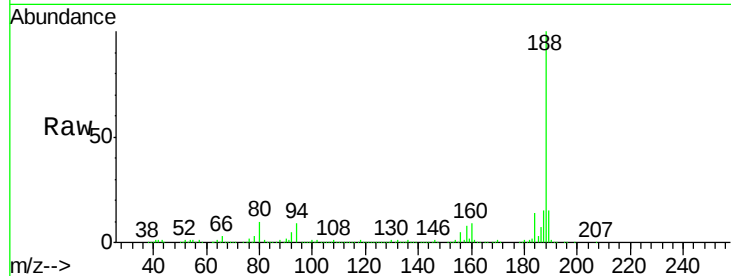
ClientSampleId :

TP-11A-11B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 327405 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.0   | 8.5   | 12.7   |
| 80        | 9.8   | 9.2   | 13.8   |

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#70

Phenanthrene

Concen: 3.992 ng

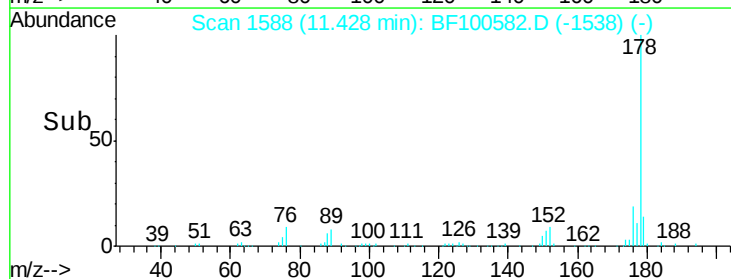
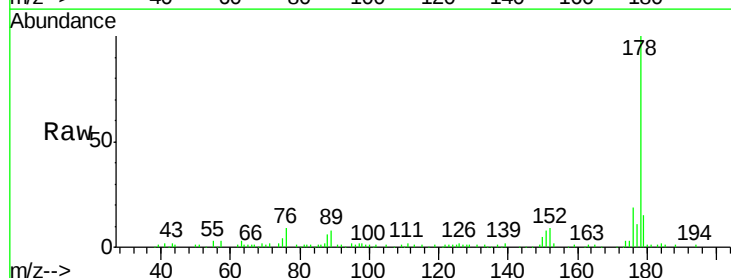
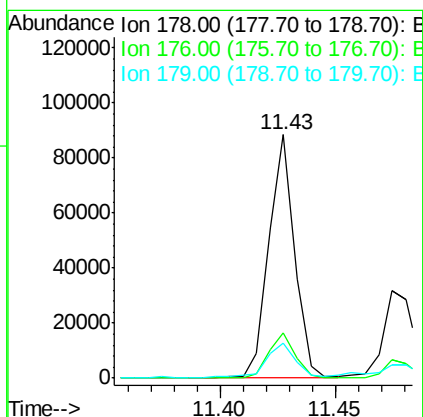
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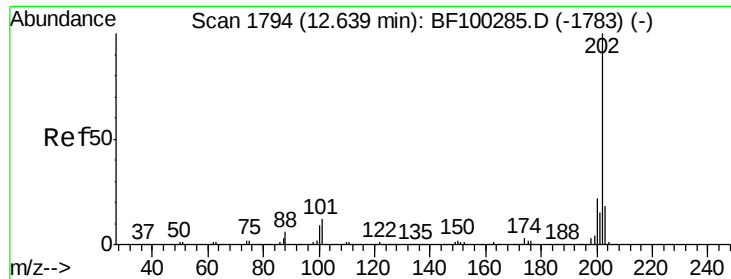
Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 68815 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.7  | 15.8  | 23.8  |
| 179       | 14.6  | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 6.220 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

Instrument :

BNA\_F

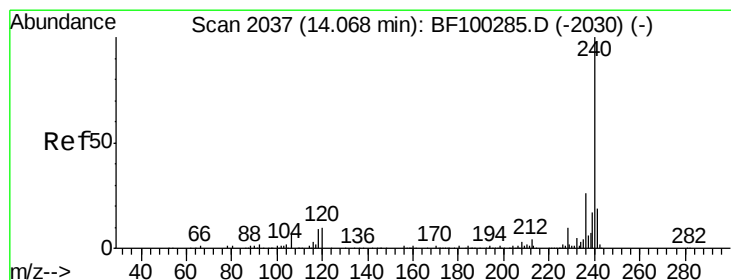
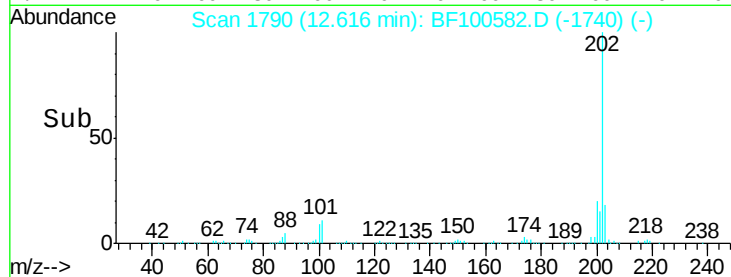
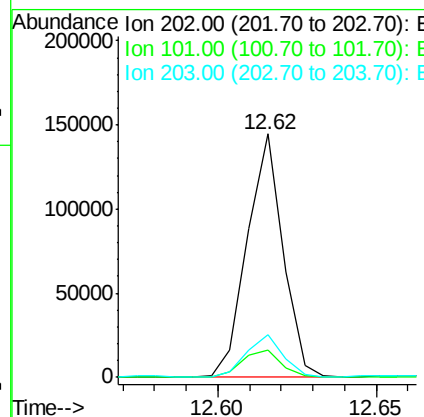
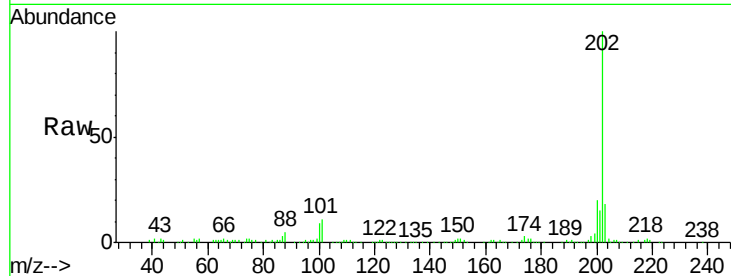
ClientSampleId :

TP-11A-11B

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 113642 |       |       |
| 101 | 11.3 | 0.0   | 34.1   |       |       |
| 203 | 17.6 | 0.0   | 38.1   |       |       |

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#75

Chrysene-d12

Concen: 20.000 ng

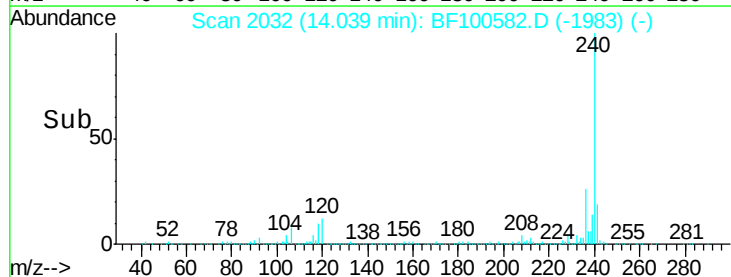
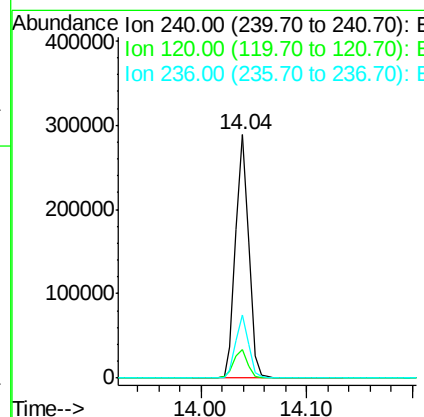
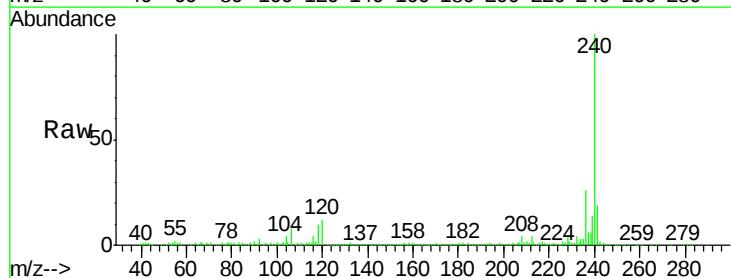
RT: 14.04 min Scan# 2032

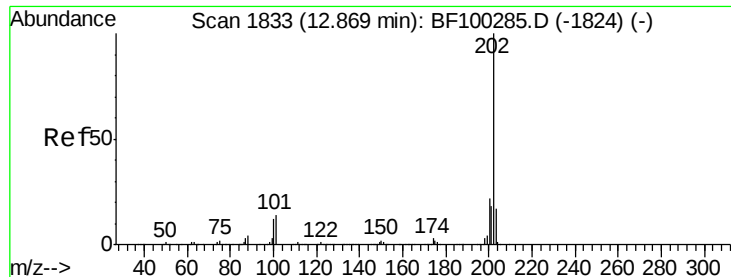
Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 248902 |       |       |
| 120 | 12.0 | 9.5   | 14.3   |       |       |
| 236 | 26.0 | 20.7  | 31.1   |       |       |





#77

Pyrene

Concen: 6.079 ng

RT: 12.85 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

Instrument :

BNA\_F

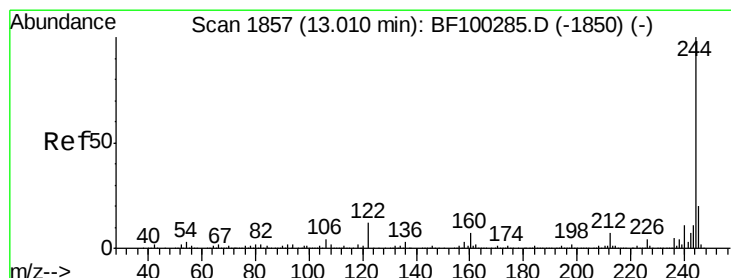
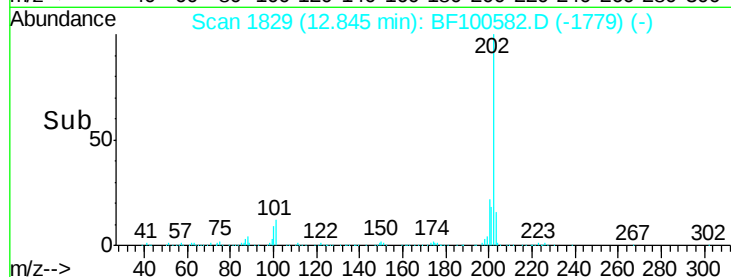
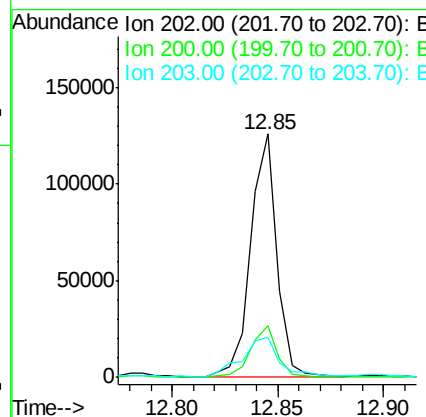
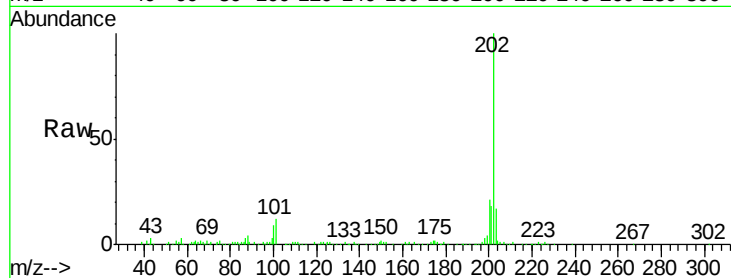
ClientSampleId :

TP-11A-11B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 107858 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.4  | 26.2   |
| 203       | 16.7  | 14.3  | 21.5   |

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11/16/2017 6:18:26 PM



#78

Terphenyl-d14

Concen: 9.966 ng

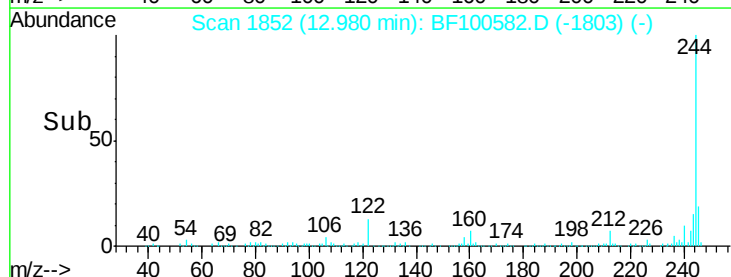
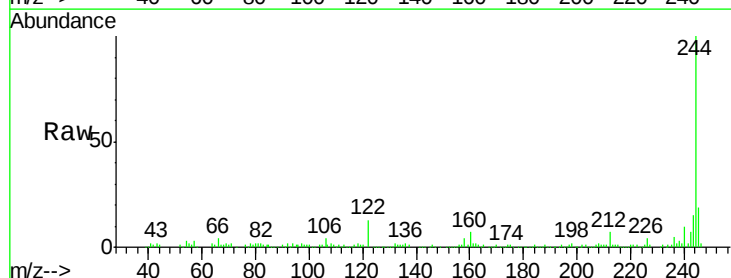
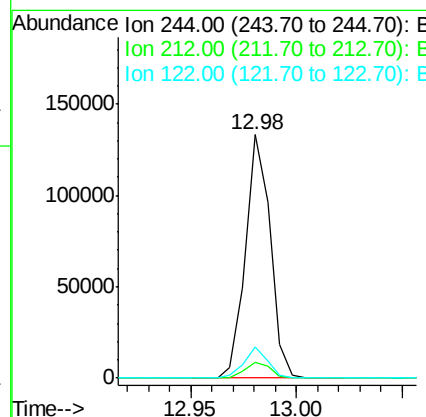
RT: 12.98 min Scan# 1852

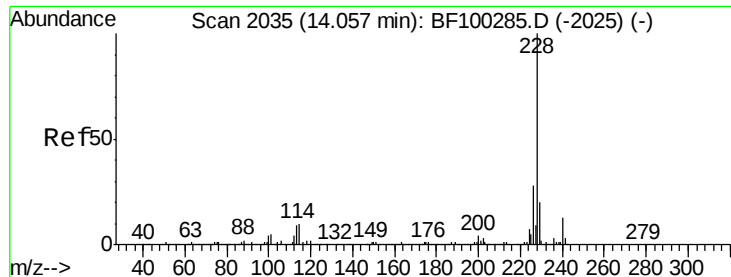
Delta R.T. -0.01 min

Lab File: BF100582.D

Acq: 15 Nov 2017 12:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 107959 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.7   | 5.4   | 8.0    |
| 122       | 12.7  | 11.0  | 16.4   |





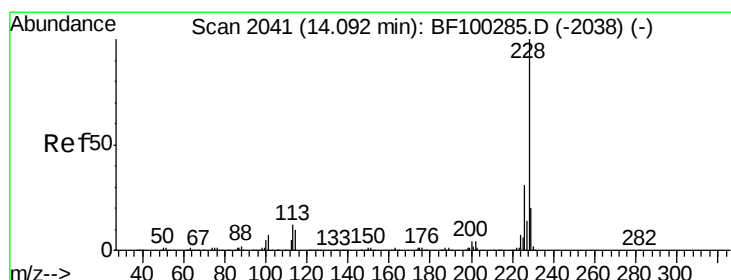
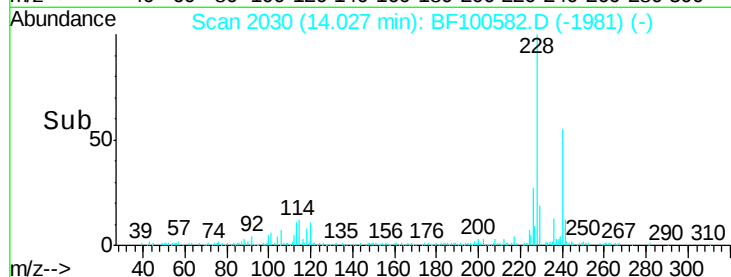
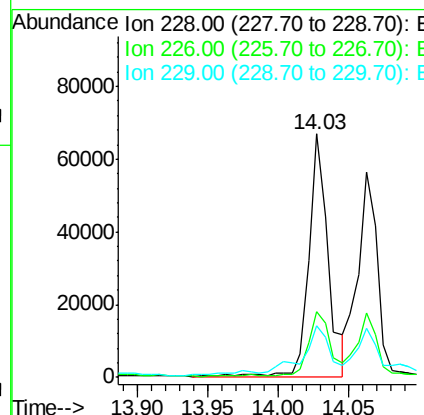
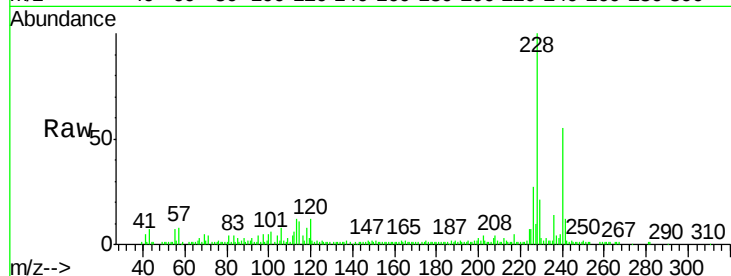
#80  
Benzo(a)anthracene  
Concen: 4.302 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 22.6  | 33.8  |
| 229     | 21.0  | 15.8  | 23.6  |

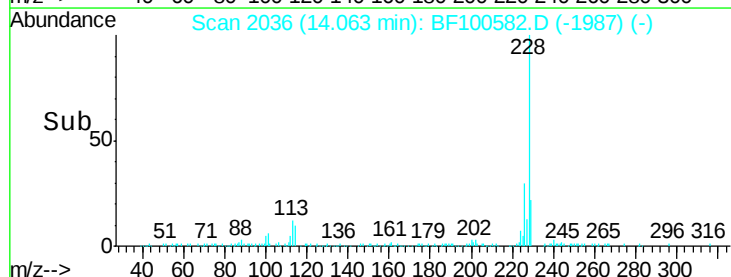
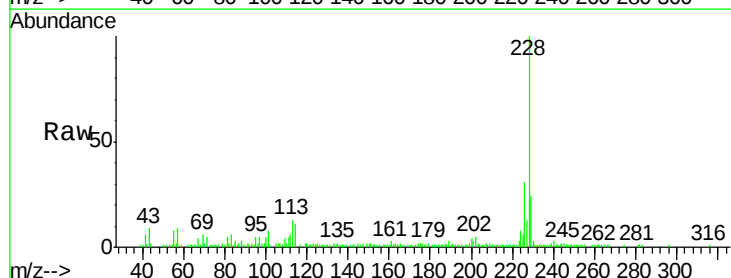
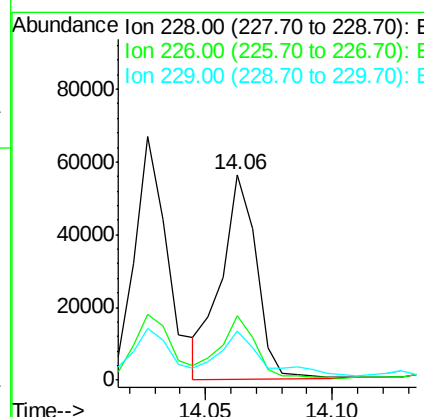
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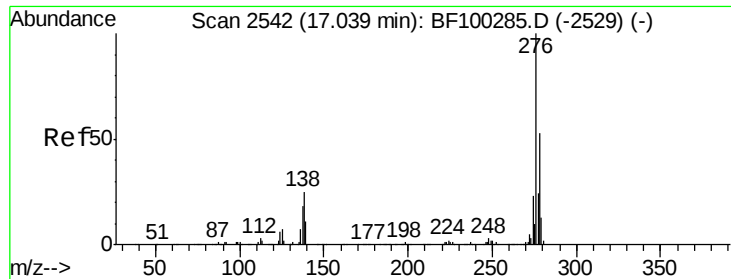
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11/16/2017 6:18:26 PM



#82  
Chrysene  
Concen: 3.781 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. -0.01 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 25.0  | 37.6  |
| 229     | 23.9  | 16.2  | 24.4  |





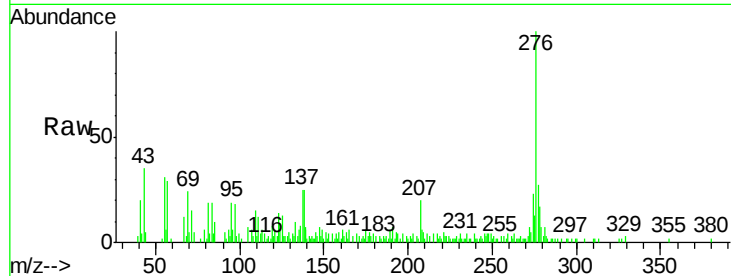
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.772 ng  
 RT: 16.99 min Scan# 2533  
 Delta R.T. -0.02 min  
 Lab File: BF100582.D  
 Acq: 15 Nov 2017 12:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-11A-11B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.4  | 25.0  | 37.6# |
| 277     | 26.0  | 20.1  | 30.1  |

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 11/16/2017 6:18:26 PM

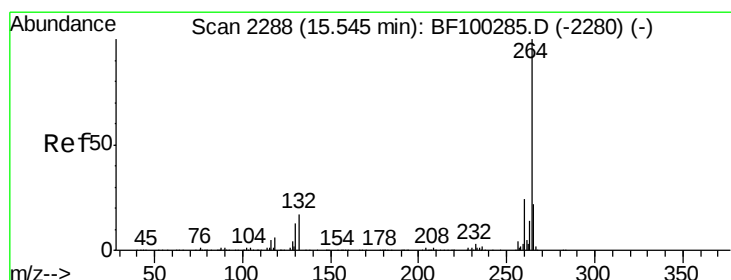
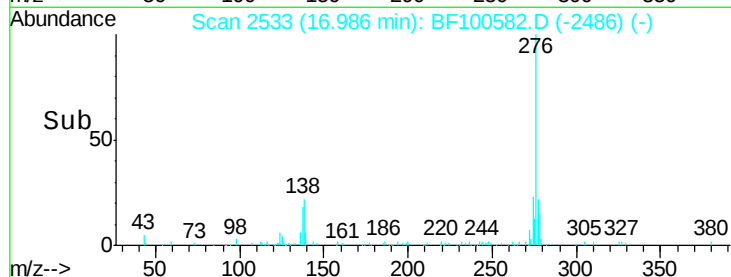
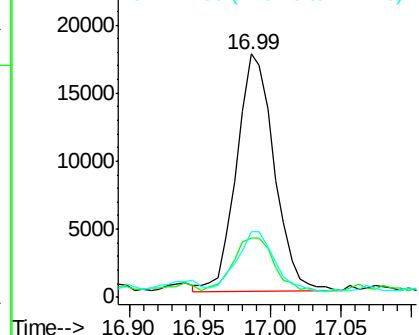


Abundance

Ion 276.00 (275.70 to 276.70): E

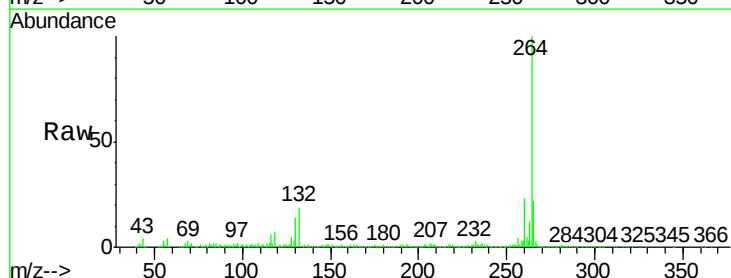
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.52 min Scan# 2283  
 Delta R.T. -0.01 min  
 Lab File: BF100582.D  
 Acq: 15 Nov 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |

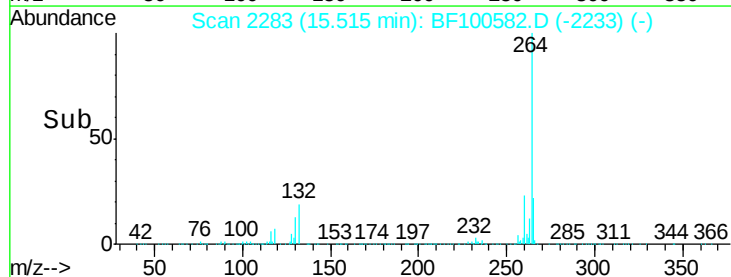
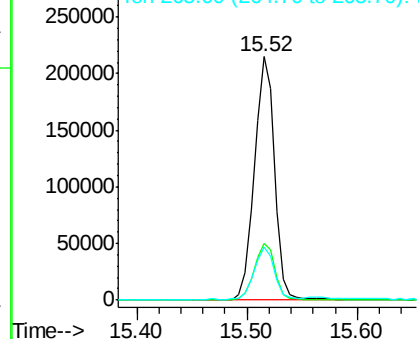


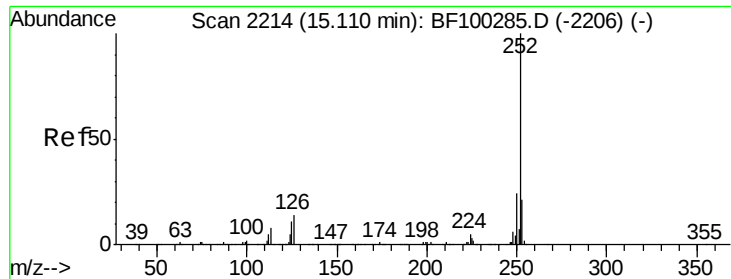
Abundance

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





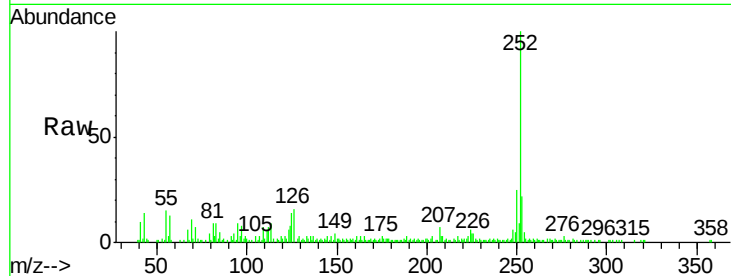
#87  
Benzo(b)fluoranthene  
Concen: 4.802 ng m  
RT: 15.08 min Scan# 2209  
Delta R.T. -0.01 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

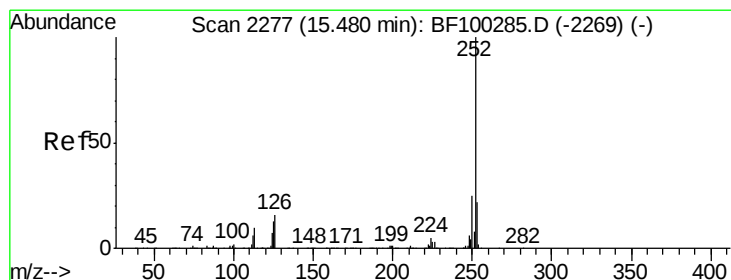
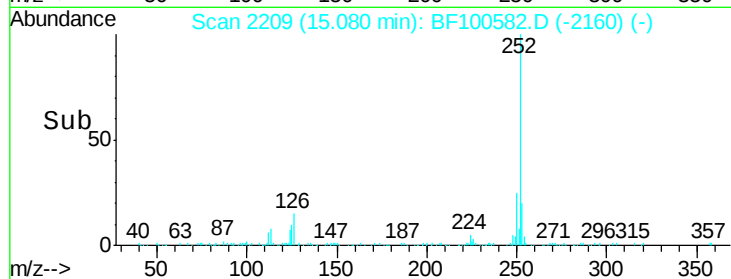
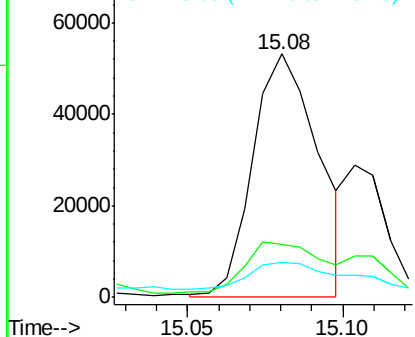
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.0  | 25.6  |
| 125     | 14.3  | 9.0   | 13.6  |

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11/16/2017 6:18:26 PM

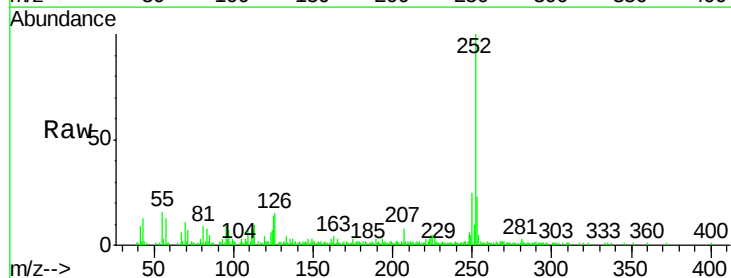


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

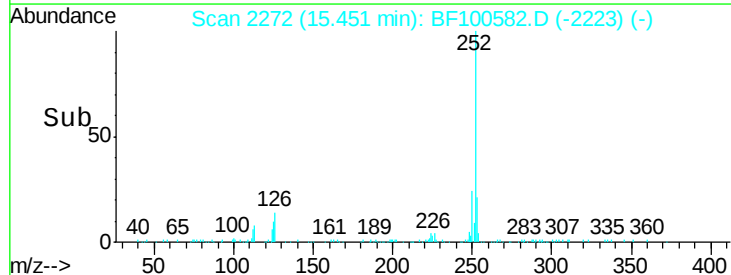
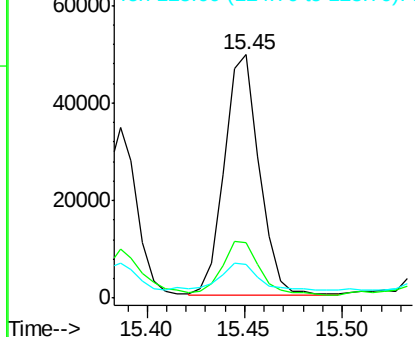


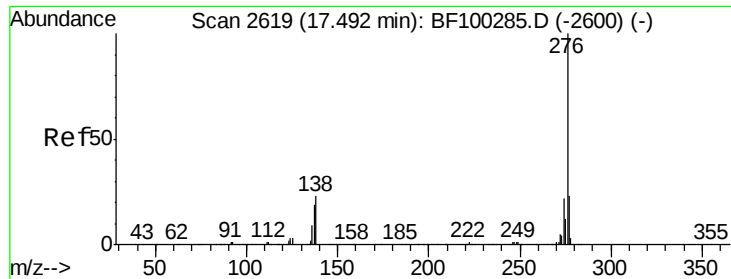
#89  
Benzo(a)pyrene  
Concen: 4.214 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. -0.01 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.1  | 25.7  |
| 125     | 13.8  | 9.8   | 14.6  |



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





#91  
Benzo(g,h,i)perylene  
Concen: 2.654 ng  
RT: 17.44 min Scan# 2610  
Delta R.T. -0.02 min  
Lab File: BF100582.D  
Acq: 15 Nov 2017 12:35

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11A-11B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 32.0  | 17.9  | 26.9# |
| 138     | 30.7  | 21.8  | 32.8  |

Manual Integrations  
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