

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042219\  
 Data File : BF113898.D  
 Acq On : 23 Apr 2019 00:28  
 Operator : JU/SJ  
 Sample : K2202-03 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-041819-B

Manual Integrations  
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 4/23/2019 4:08:14 PM

Quant Time: Apr 23 06:03:33 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|-------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 176188   | 20.00 | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.18  | 136  | 601537   | 20.00 | ng    | 0.00       |
| 39) Acenaphthene-d10        | 9.93  | 164  | 295272   | 20.00 | ng    | 0.00       |
| 64) Phenanthrene-d10        | 11.42 | 188  | 627279   | 20.00 | ng    | 0.00       |
| 76) Chrysene-d12            | 14.06 | 240  | 592315   | 20.00 | ng    | -0.01      |
| 87) Perylene-d12            | 15.54 | 264  | 477292   | 20.00 | ng    | -0.03      |
| System Monitoring Compounds |       |      |          |       |       |            |
| 5) 2-Fluorophenol           | 5.52  | 112  | 523148   | 50.78 | ng    | 0.00       |
| 7) Phenol-d6                | 6.52  | 99   | 644019   | 49.83 | ng    | 0.00       |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 359510   | 36.90 | ng    | 0.00       |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 196323   | 54.58 | ng    | 0.00       |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 640346   | 33.92 | ng    | 0.00       |
| 79) Terphenyl-d14           | 13.00 | 244  | 867660   | 30.03 | ng    | 0.00       |
| Target Compounds            |       |      |          |       |       |            |
| 50) Dimethylphthalate       | 9.64  | 163  | 72808    | 3.409 | ng    | Qvalue 100 |
| 71) Phenanthrene            | 11.44 | 178  | 96667    | 3.066 | ng    | 98         |
| 75) Fluoranthene            | 12.63 | 202  | 187483   | 5.451 | ng    | 98         |
| 78) Pyrene                  | 12.86 | 202  | 207144   | 5.001 | ng    | 98         |
| 81) Benzo(a)anthracene      | 14.04 | 228  | 116902   | 3.350 | ng    | 96         |
| 83) Chrysene                | 14.08 | 228  | 98299    | 2.892 | ng    | 98         |
| 88) Benzo(b)fluoranthene    | 15.10 | 252  | 110583m  | 3.662 | ng    |            |
| 90) Benzo(a)pyrene          | 15.47 | 252  | 84357    | 3.230 | ng    | # 91       |

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

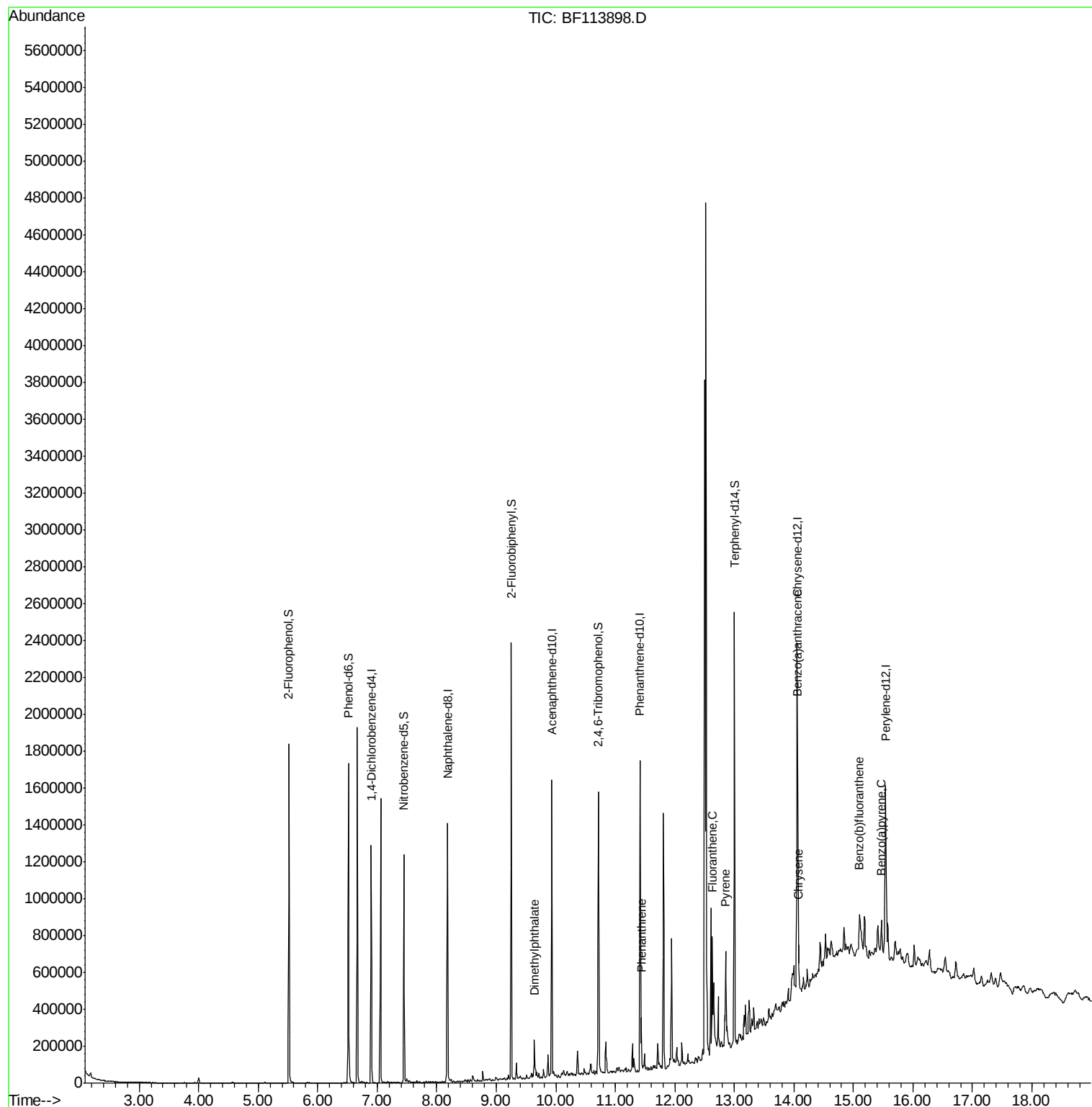
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042219\  
Data File : BF113898.D  
Acq On : 23 Apr 2019 00:28  
Operator : JU/SJ  
Sample : K2202-03 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

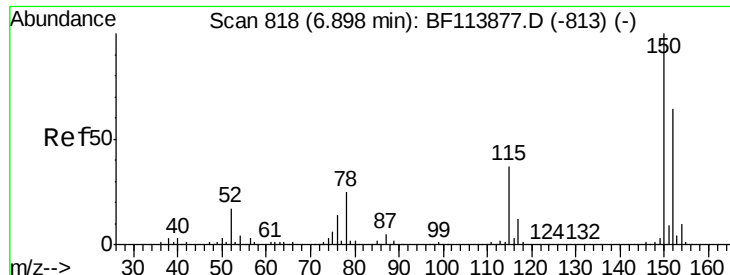
Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-041819-B

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Quant Time: Apr 23 06:03:33 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 23 03:32:35 2019  
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#1

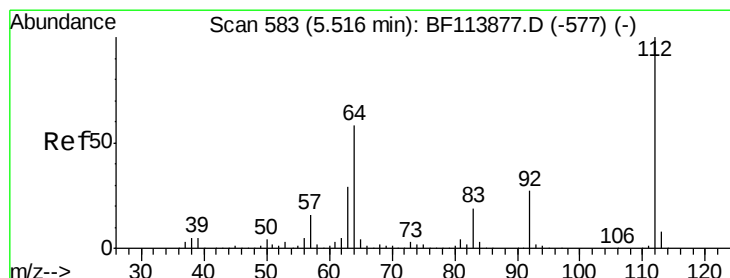
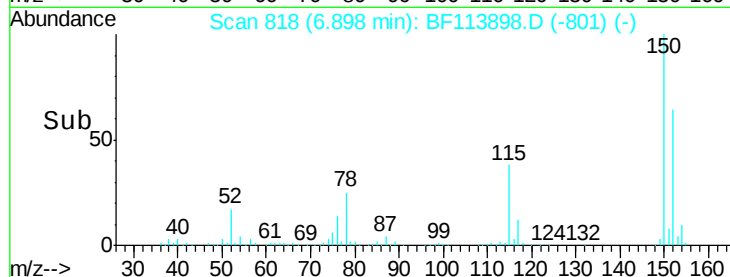
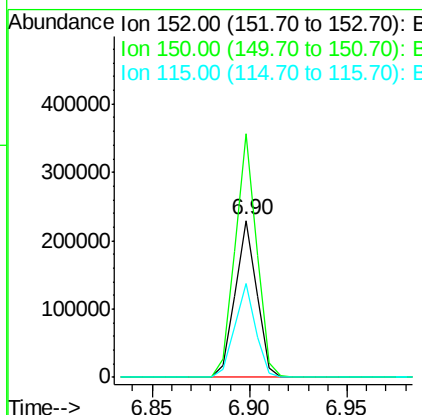
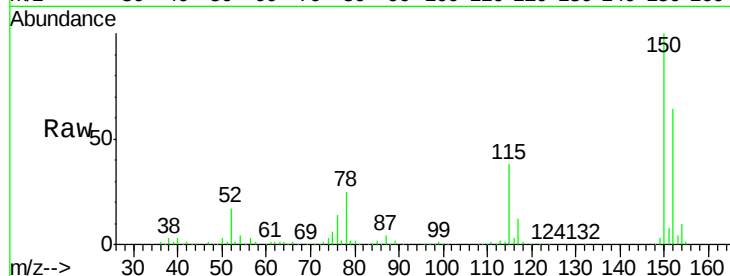
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-041819-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 125.9 | 188.9 |
| 115     | 59.8  | 45.9  | 68.9  |

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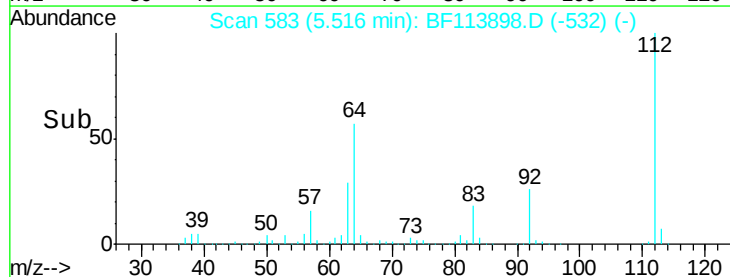
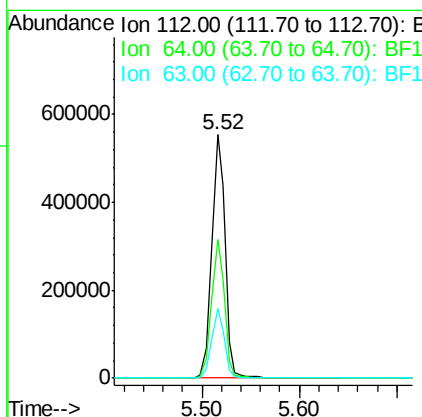
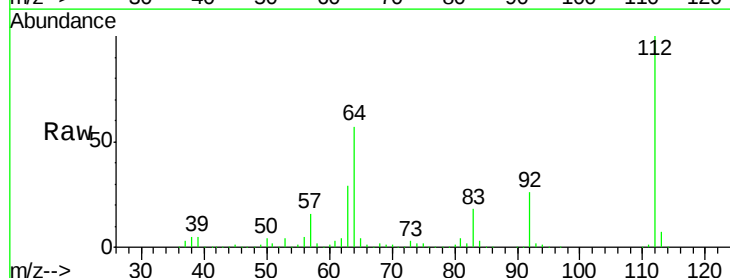
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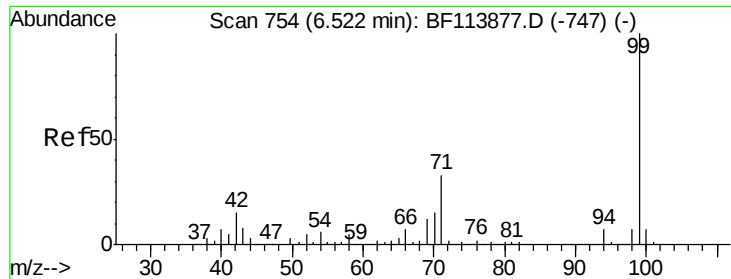


#5

2-Fluorophenol  
Concen: 50.785 ng  
RT: 5.52 min Scan# 583  
Delta R.T. -0.00 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 46.6  | 69.8  |
| 63      | 28.7  | 23.1  | 34.7  |





#7

Phenol-d6

Concen: 49.831 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

Instrument :

BNA\_F

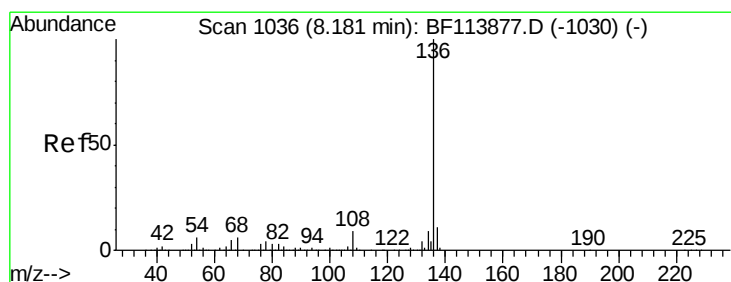
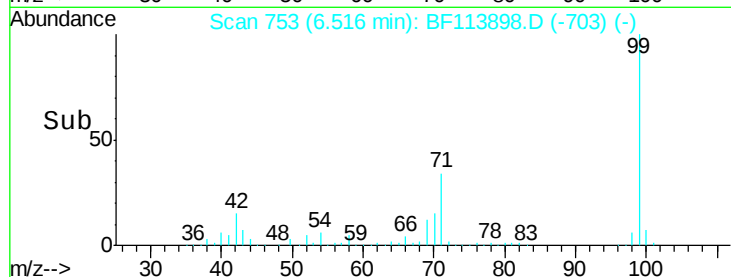
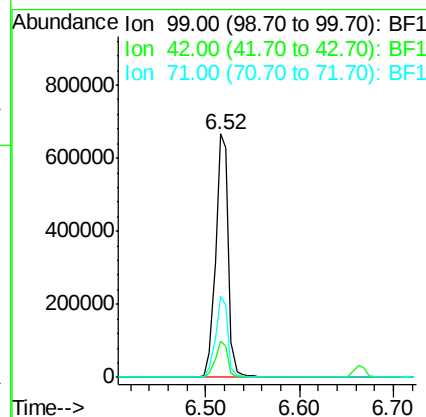
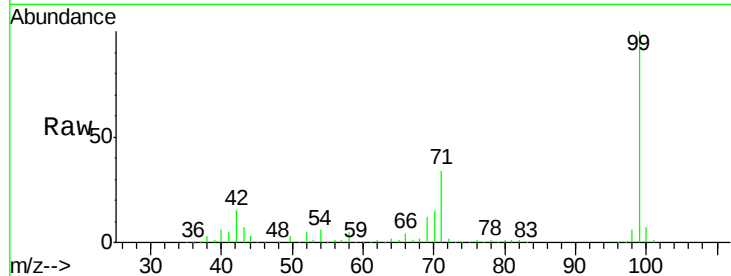
ClientSampleId :

SA-06-041819-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 644019 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.0  | 12.5  | 18.7   |
| 71       | 33.6  | 26.9  | 40.3   |

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#21

Naphthalene-d8

Concen: 20.000 ng

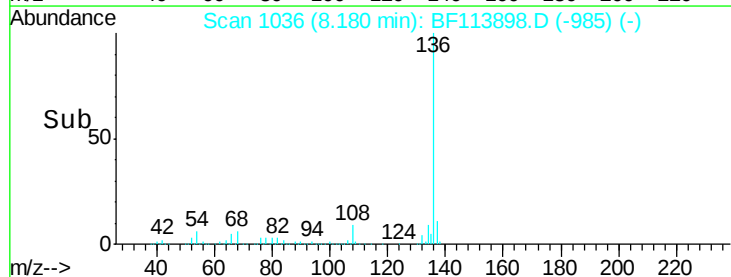
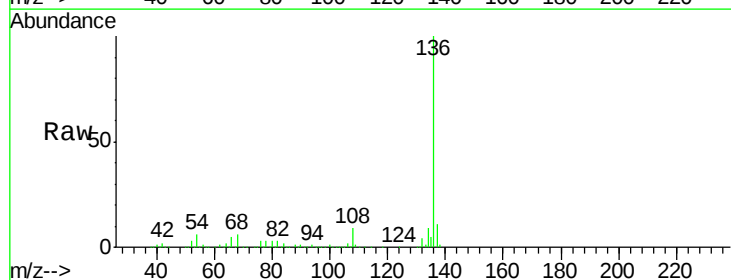
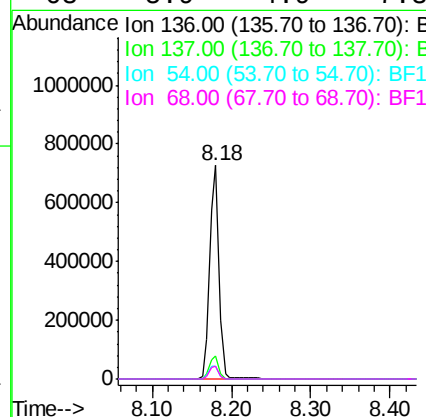
RT: 8.18 min Scan# 1036

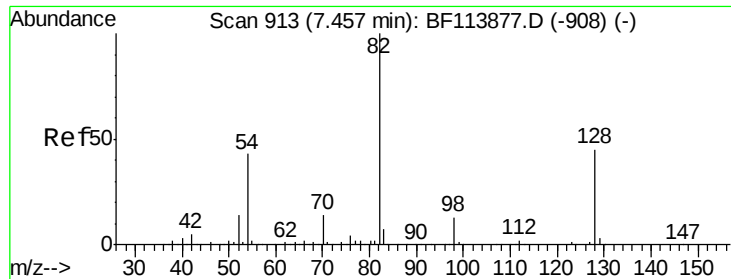
Delta R.T. -0.00 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 601537 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.6   | 12.8   |
| 54       | 6.1   | 5.0   | 7.6    |
| 68       | 5.9   | 4.9   | 7.3    |





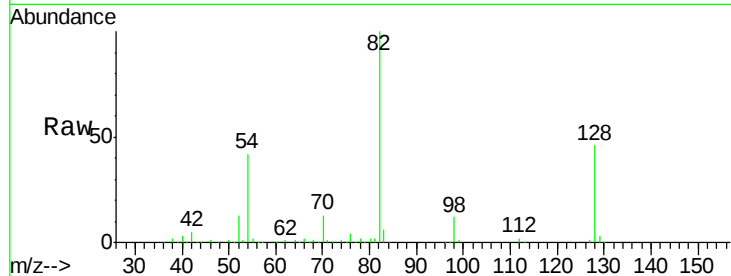
#23  
 Nitrobenzene-d5  
 Concen: 36.901 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.01 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-041819-B

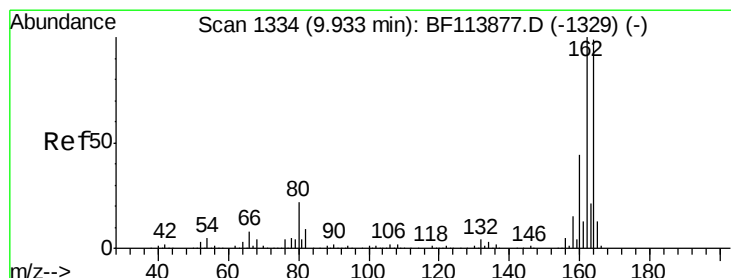
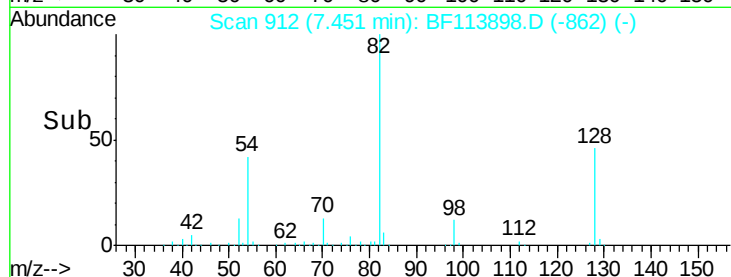
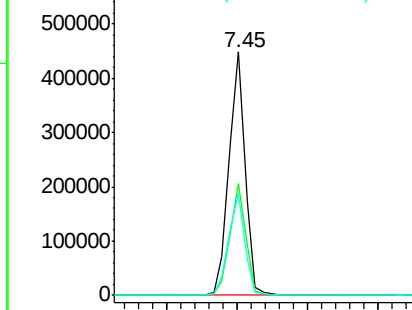
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 359510 |       |       |
| 128     | 45.7  | 36.8   | 55.2  |       |
| 54      | 41.8  | 33.8   | 50.6  |       |

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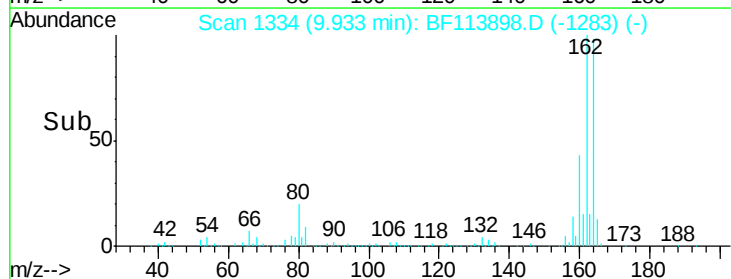
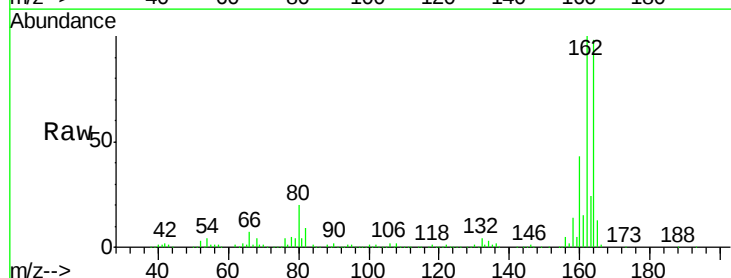
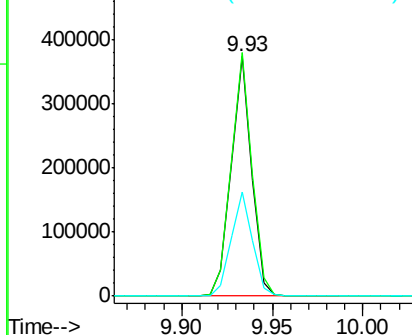
Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

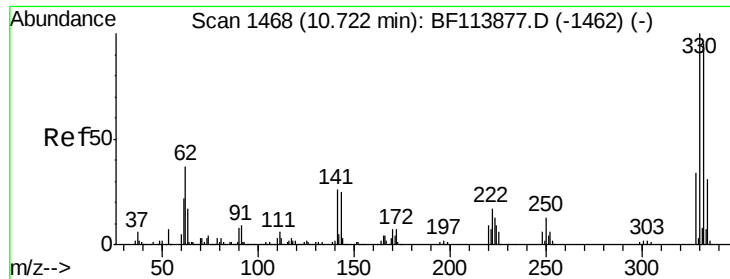


#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.93 min Scan# 1334  
 Delta R.T. -0.00 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 295272 |       |       |
| 162     | 101.6 | 81.1   | 121.7 |       |
| 160     | 43.6  | 35.8   | 53.6  |       |

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





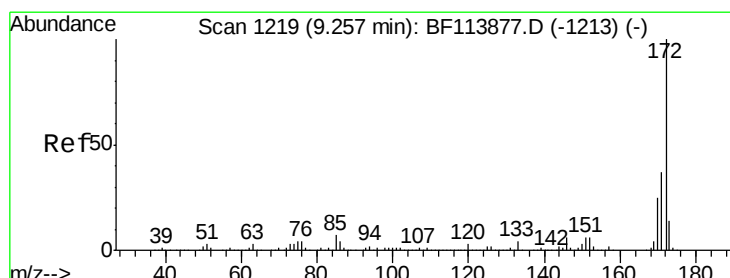
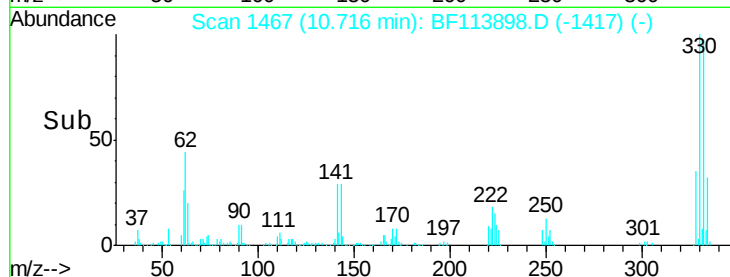
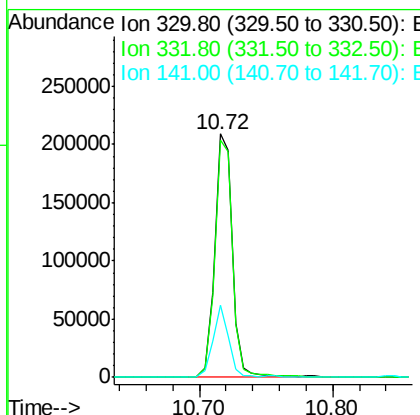
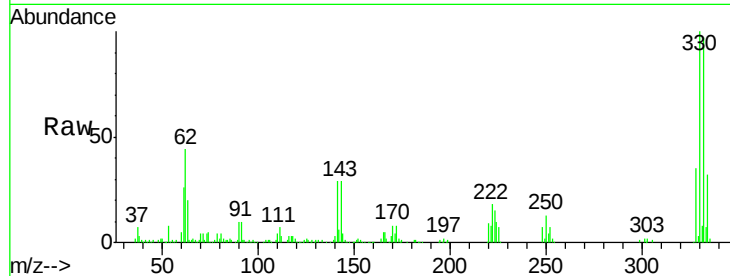
#42  
 2,4,6-Tribromophenol  
 Concen: 54.579 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. -0.01 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-041819-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 196323 |       |       |
| 332     | 98.9  | 77.5   | 116.3 |       |
| 141     | 26.8  | 22.2   | 33.2  |       |

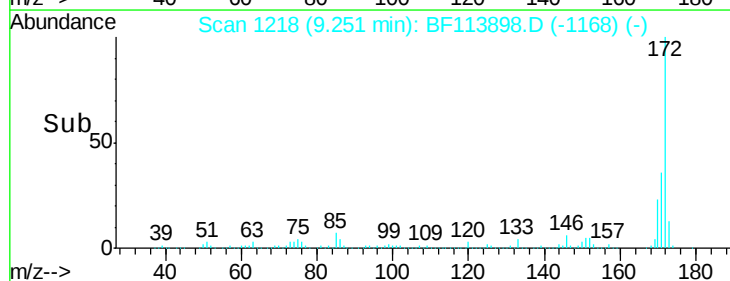
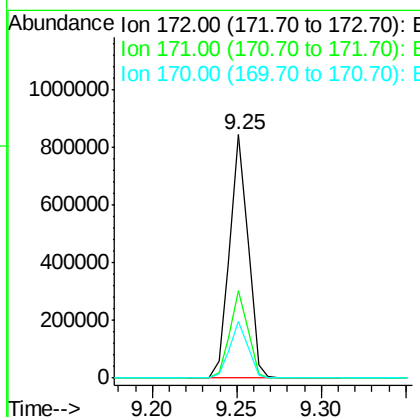
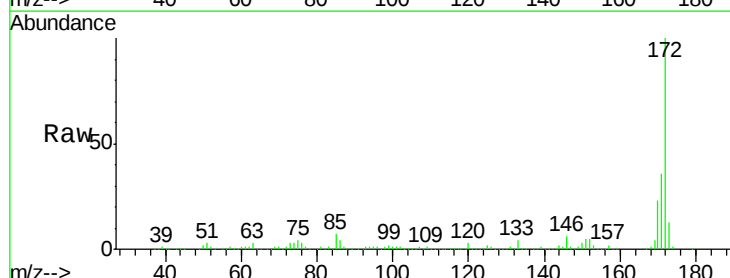
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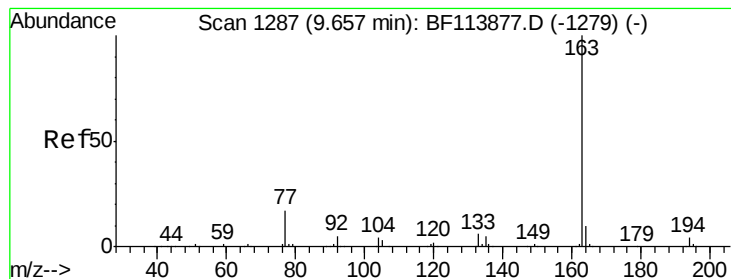
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#45  
 2-Fluorobiphenyl  
 Concen: 33.918 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 640346 |       |       |
| 171     | 35.8  | 29.4   | 44.0  |       |
| 170     | 23.5  | 19.9   | 29.9  |       |





#50

Dimethylphthalate

Concen: 3.409 ng

RT: 9.64 min Scan# 1284

Delta R.T. -0.02 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

Instrument :

BNA\_F

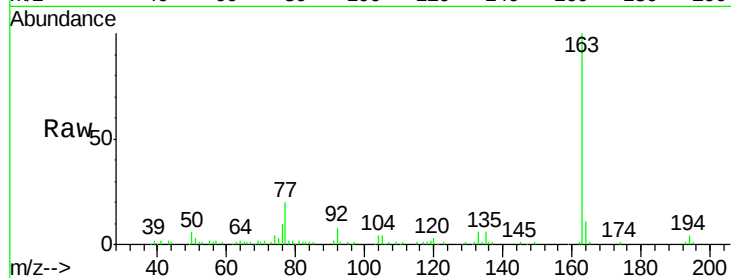
ClientSampleId :

SA-06-041819-B

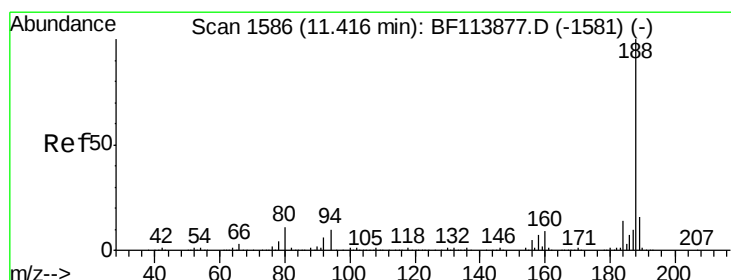
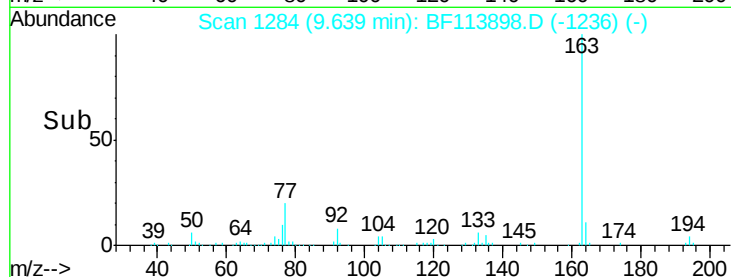
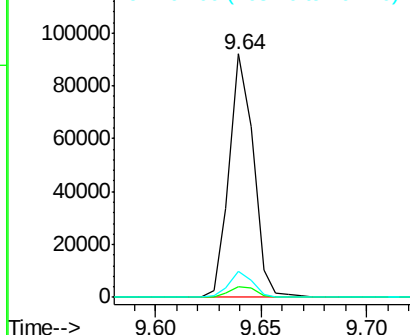
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 72808 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.4   | 3.4   | 5.2   |
| 164       | 10.6  | 8.5   | 12.7  |

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



#64

Phenanthrene-d10

Concen: 20.000 ng

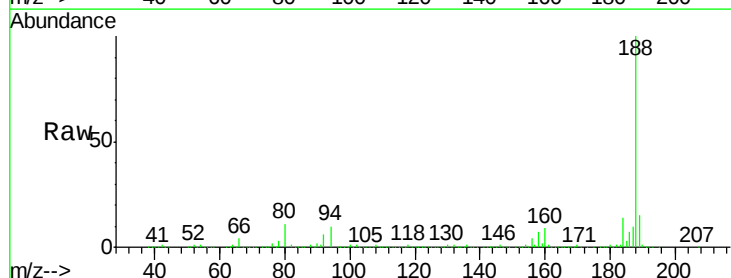
RT: 11.42 min Scan# 1586

Delta R.T. -0.00 min

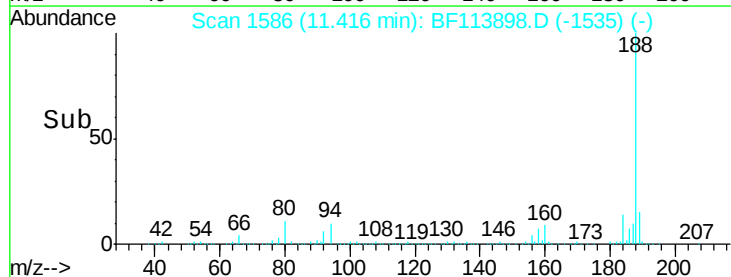
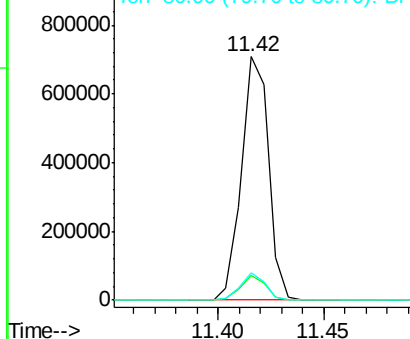
Lab File: BF113898.D

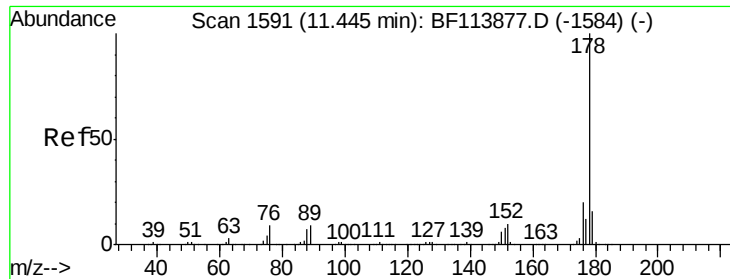
Acq: 23 Apr 2019 00:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 627279 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.9   | 8.2   | 12.4   |
| 80        | 11.1  | 9.0   | 13.6   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 3.066 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

Instrument :

BNA\_F

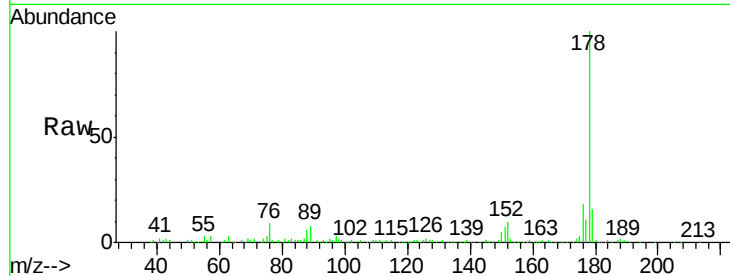
ClientSampleId :

SA-06-041819-B

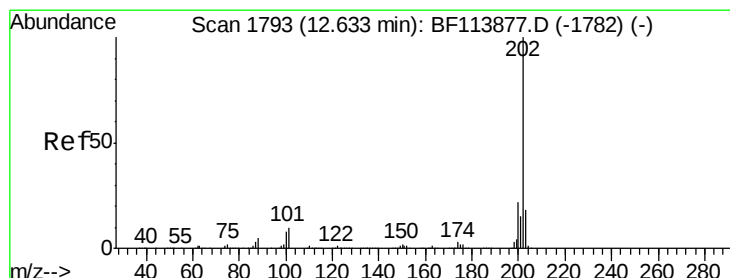
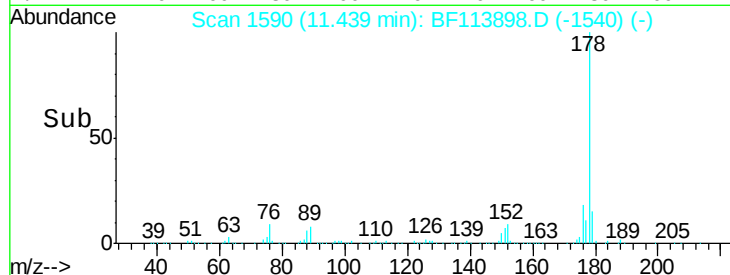
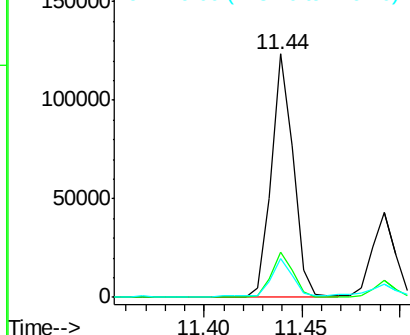
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 96667 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.4  | 16.1  | 24.1  |
| 179       | 15.9  | 12.8  | 19.2  |

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 5.451 ng

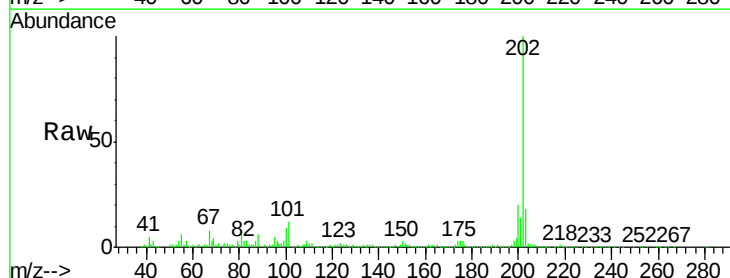
RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

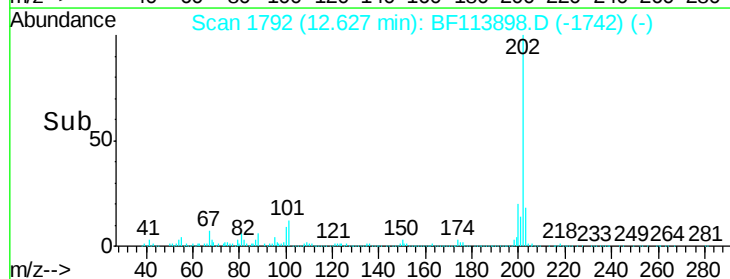
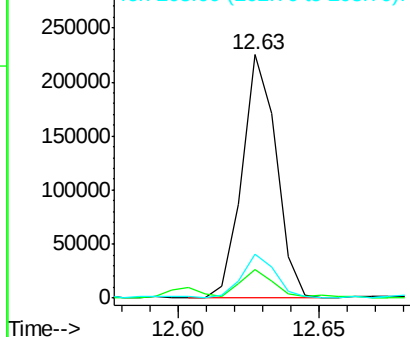
Lab File: BF113898.D

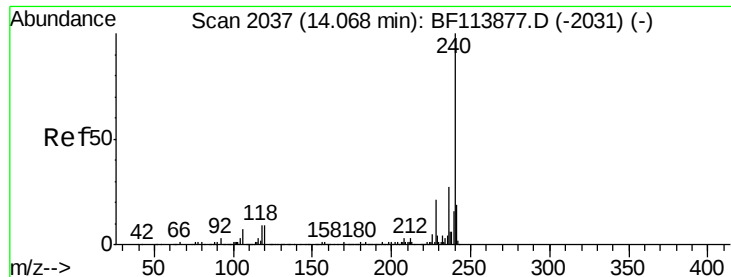
Acq: 23 Apr 2019 00:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 187483 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 0.0   | 32.9   |
| 203       | 18.3  | 0.0   | 38.2   |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





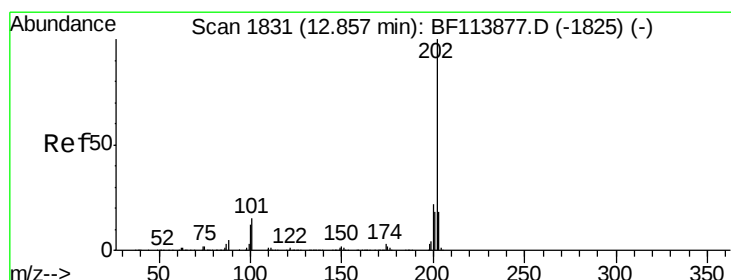
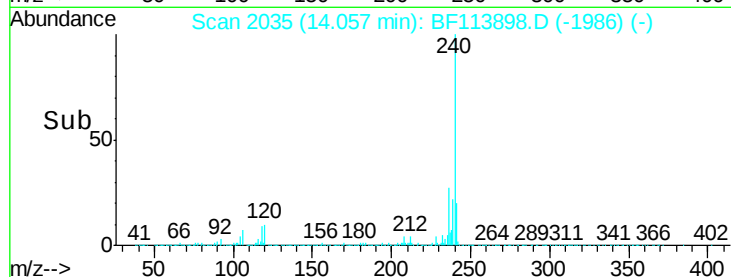
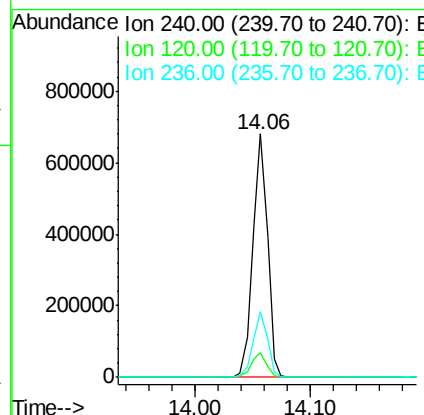
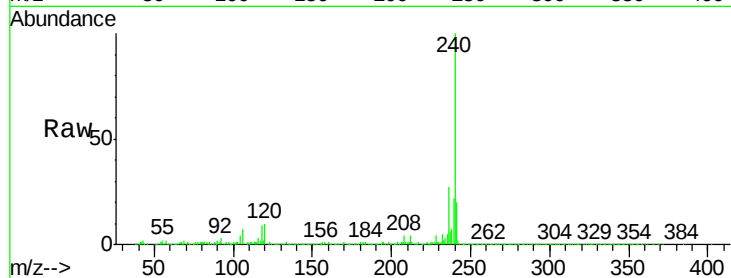
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-041819-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 592315 |       |       |
| 120     | 9.9   | 9.3    | 13.9  |       |
| 236     | 26.8  | 21.2   | 31.8  |       |

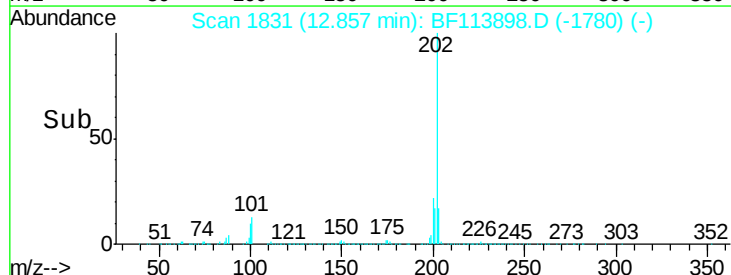
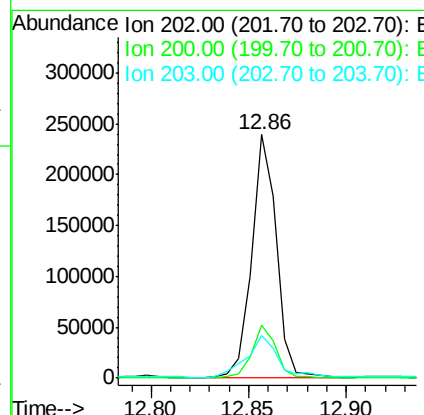
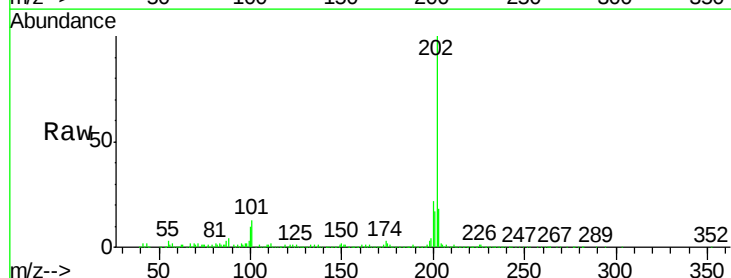
Manual Integrations  
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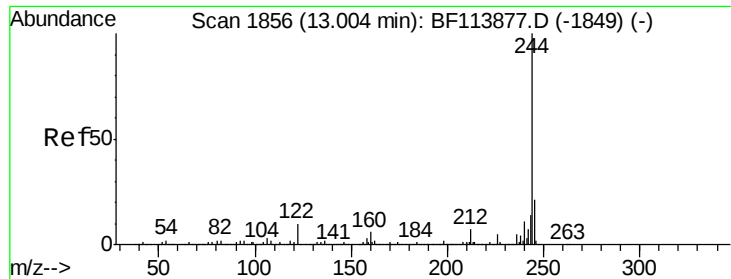
Sohil  
4/23/2019 4:08:14 PM



#78  
Pyrene  
Concen: 5.001 ng  
RT: 12.86 min Scan# 1831  
Delta R.T. -0.00 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 207144 |       |       |
| 200     | 21.6  | 17.7   | 26.5  |       |
| 203     | 17.7  | 15.0   | 22.6  |       |





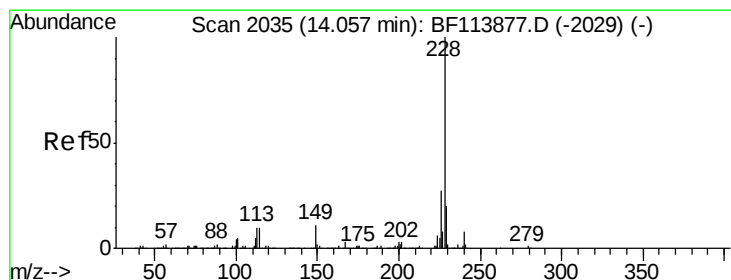
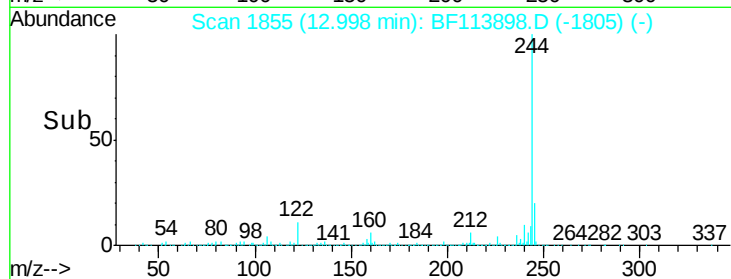
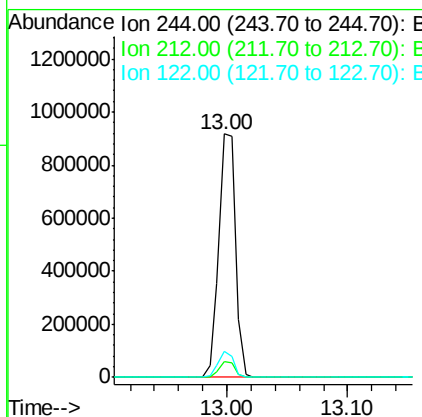
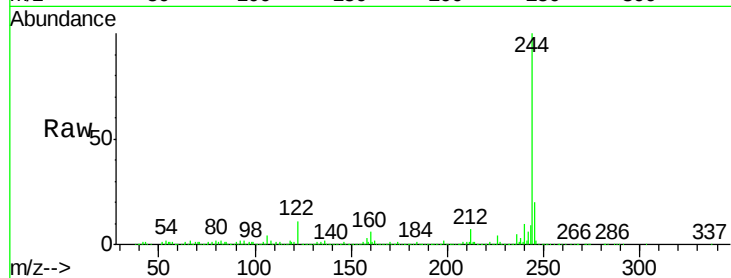
#79  
 Terphenyl-d14  
 Concen: 30.032 ng  
 RT: 13.00 min Scan# 1856  
 Delta R.T. -0.01 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-06-041819-B

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 867660 |       |       |
| 212     | 6.5   |        | 5.4   | 8.2   |
| 122     | 10.9  |        | 7.6   | 11.4  |

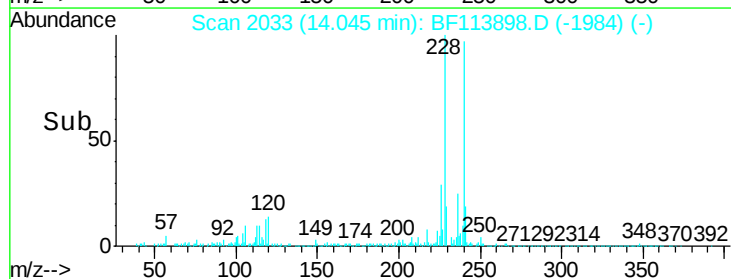
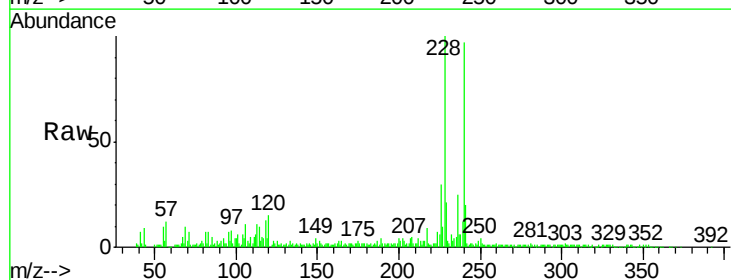
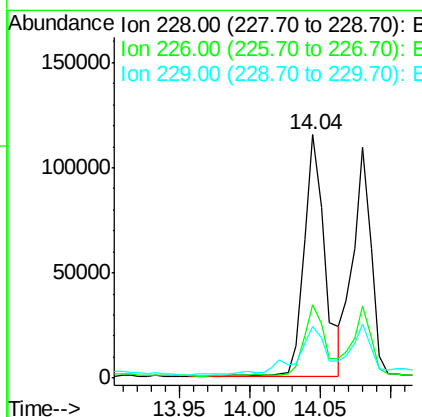
Manual Integrations  
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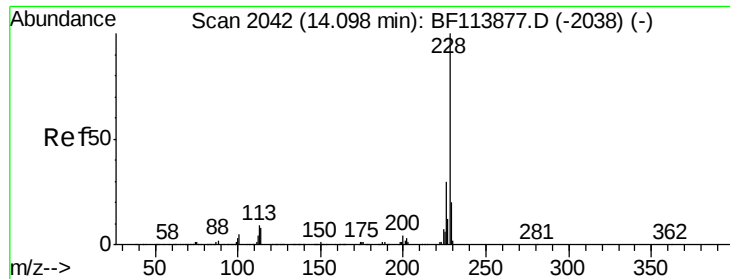
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#81  
 Benzo(a)anthracene  
 Concen: 3.350 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF113898.D  
 Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 116902 |       |       |
| 226     | 30.4  |        | 22.2  | 33.2  |
| 229     | 21.4  |        | 16.0  | 24.0  |





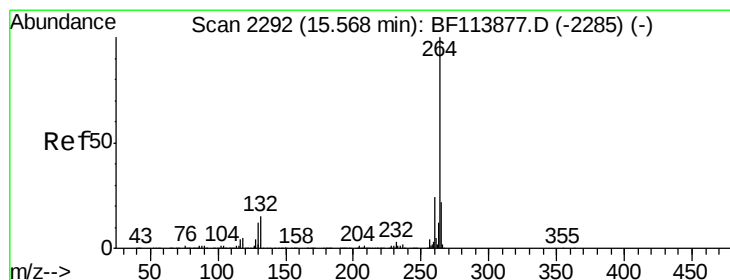
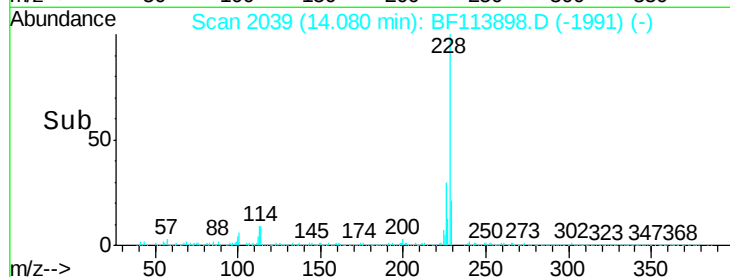
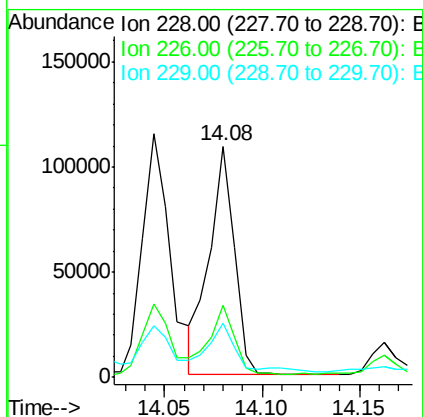
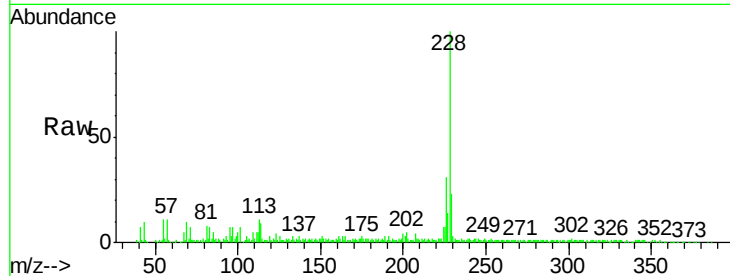
#83  
Chrysene  
Concen: 2.892 ng  
RT: 14.08 min Scan# 2039  
Delta R.T. -0.02 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

Instrument :  
BNA\_F  
ClientSampleId :  
SA-06-041819-B

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 98299 |       |       |
| 226     | 31.3  | 25.2  | 37.8  |       |
| 229     | 23.2  | 16.7  | 25.1  |       |

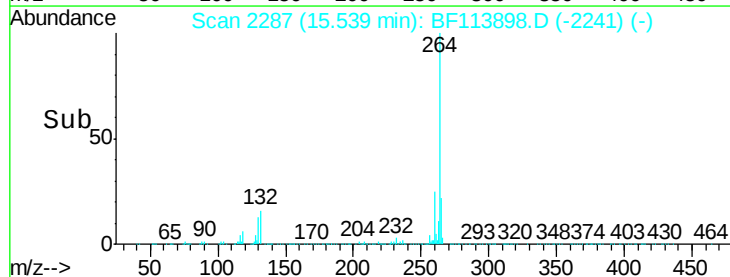
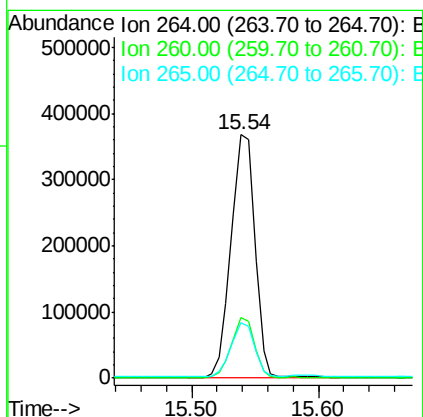
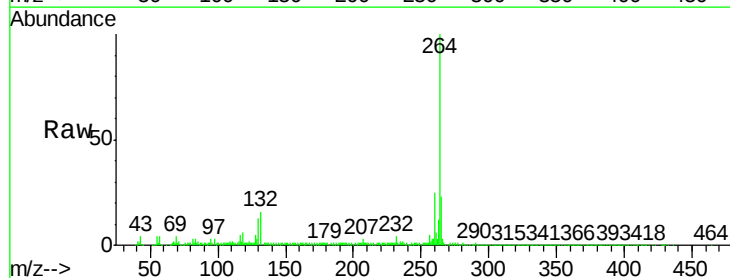
Manual Integrations  
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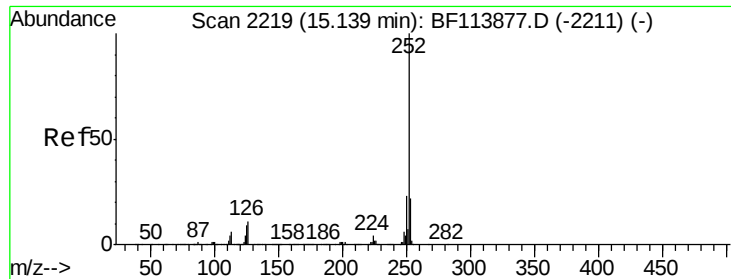
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4/23/2019 4:08:14 PM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. -0.03 min  
Lab File: BF113898.D  
Acq: 23 Apr 2019 00:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 477292 |       |       |
| 260     | 24.9  | 18.9   | 28.3  |       |
| 265     | 22.8  | 17.3   | 25.9  |       |





#88

Benzo(b)fluoranthene

Concen: 3.662 ng m

RT: 15.10 min Scan# 2213

Delta R.T. -0.04 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

Instrument :

BNA\_F

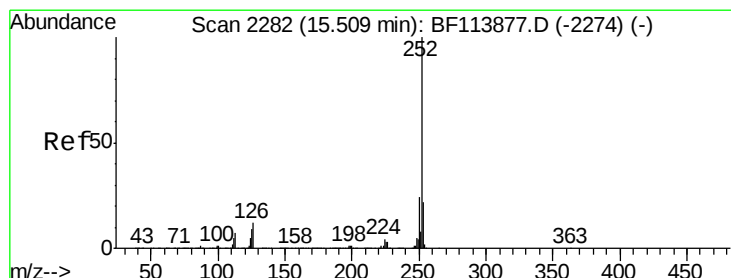
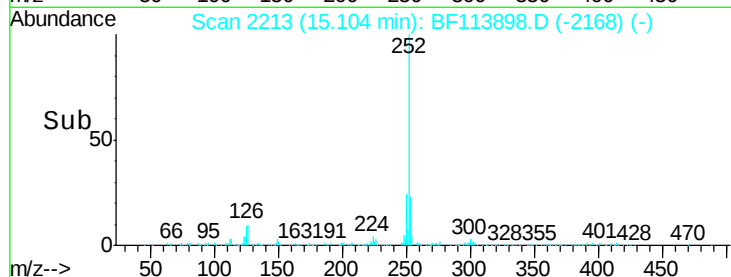
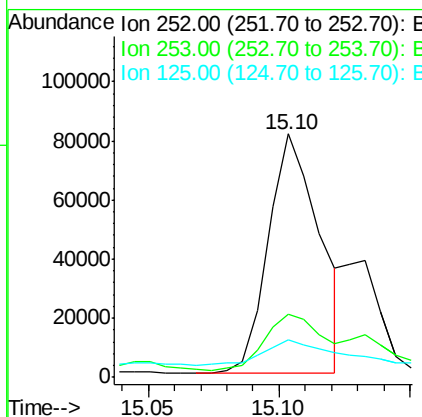
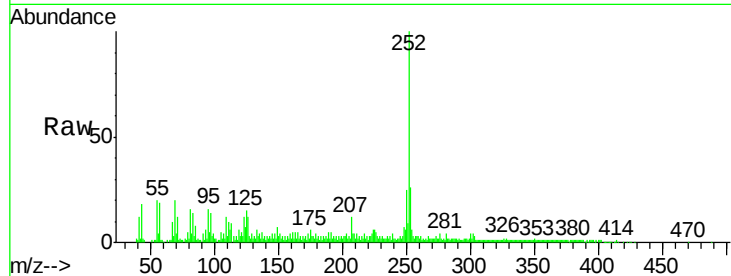
ClientSampleId :

SA-06-041819-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 110583 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 26.1  | 17.8  | 26.6   |
| 125       | 15.2  | 7.0   | 10.6#  |

Manual Integrations  
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#90

Benzo(a)pyrene

Concen: 3.230 ng

RT: 15.47 min Scan# 2276

Delta R.T. -0.04 min

Lab File: BF113898.D

Acq: 23 Apr 2019 00:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 84357 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.2  | 17.5  | 26.3  |
| 125       | 15.0  | 8.5   | 12.7# |

