

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
 Data File : BF109919.D  
 Acq On : 17 Oct 2018 12:52  
 Operator : JU/SJ  
 Sample : J5516-06  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSSI-1011-S-DH-30

Manual Integrations  
 APPROVED

Sohil  
 10/18/2018 2:04:11 PM

Quant Time: Oct 17 17:24:03 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 16 14:58:24 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.98  | 152  | 257634   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.26  | 136  | 985290   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 10.02 | 164  | 483219   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.52 | 188  | 893740   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.16 | 240  | 486240   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.69 | 264  | 542702   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 1351605  | 83.16  | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 1726175  | 85.53  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 1056628  | 72.24  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.82 | 330  | 294823   | 70.47  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.34  | 172  | 1861682  | 61.48  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.10 | 244  | 1675178  | 72.35  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.28  | 128  | 169127   | 3.743  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.97  | 142  | 1265314  | 43.249 | ng    | 98       |
| 38) 1-Methylnaphthalene     | 9.07  | 142  | 737256   | 26.006 | ng    | 98       |
| 46) 1,1'-Biphenyl           | 9.44  | 154  | 536618   | 12.464 | ng    | 100      |
| 49) Acenaphthylene          | 9.88  | 152  | 122442   | 2.658  | ng    | # 91     |
| 50) Dimethylphthalate       | 9.73  | 163  | 211825   | 6.191  | ng    | 99       |
| 52) Acenaphthene            | 10.06 | 154  | 1316064  | 44.870 | ng    | 99       |
| 55) Dibenzofuran            | 10.23 | 168  | 1702082  | 40.691 | ng    | 98       |
| 58) Fluorene                | 10.57 | 166  | 1549818  | 50.897 | ng    | 99       |
| 71) Phenanthrene            | 11.55 | 178  | 4491906  | 97.081 | ng    | 93       |
| 72) Anthracene              | 11.59 | 178  | 903114   | 19.414 | ng    | 99       |
| 73) Carbazole               | 11.74 | 167  | 186530   | 4.080  | ng    | 98       |
| 75) Fluoranthene            | 12.74 | 202  | 2902048  | 62.784 | ng    | 97       |
| 78) Pyrene                  | 12.97 | 202  | 2270704  | 63.582 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.15 | 228  | 695870   | 24.296 | ng    | 93       |
| 83) Chrysene                | 14.19 | 228  | 609596   | 22.361 | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene  | 17.24 | 276  | 388943   | 17.720 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.23 | 252  | 1084190m | 34.652 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.26 | 252  | 355086m  | 11.514 | ng    |          |
| 90) Benzo(a)pyrene          | 15.62 | 252  | 683238   | 23.743 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 17.25 | 278  | 89971m   | 3.528  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.73 | 276  | 326077   | 12.655 | ng    | # 93     |

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

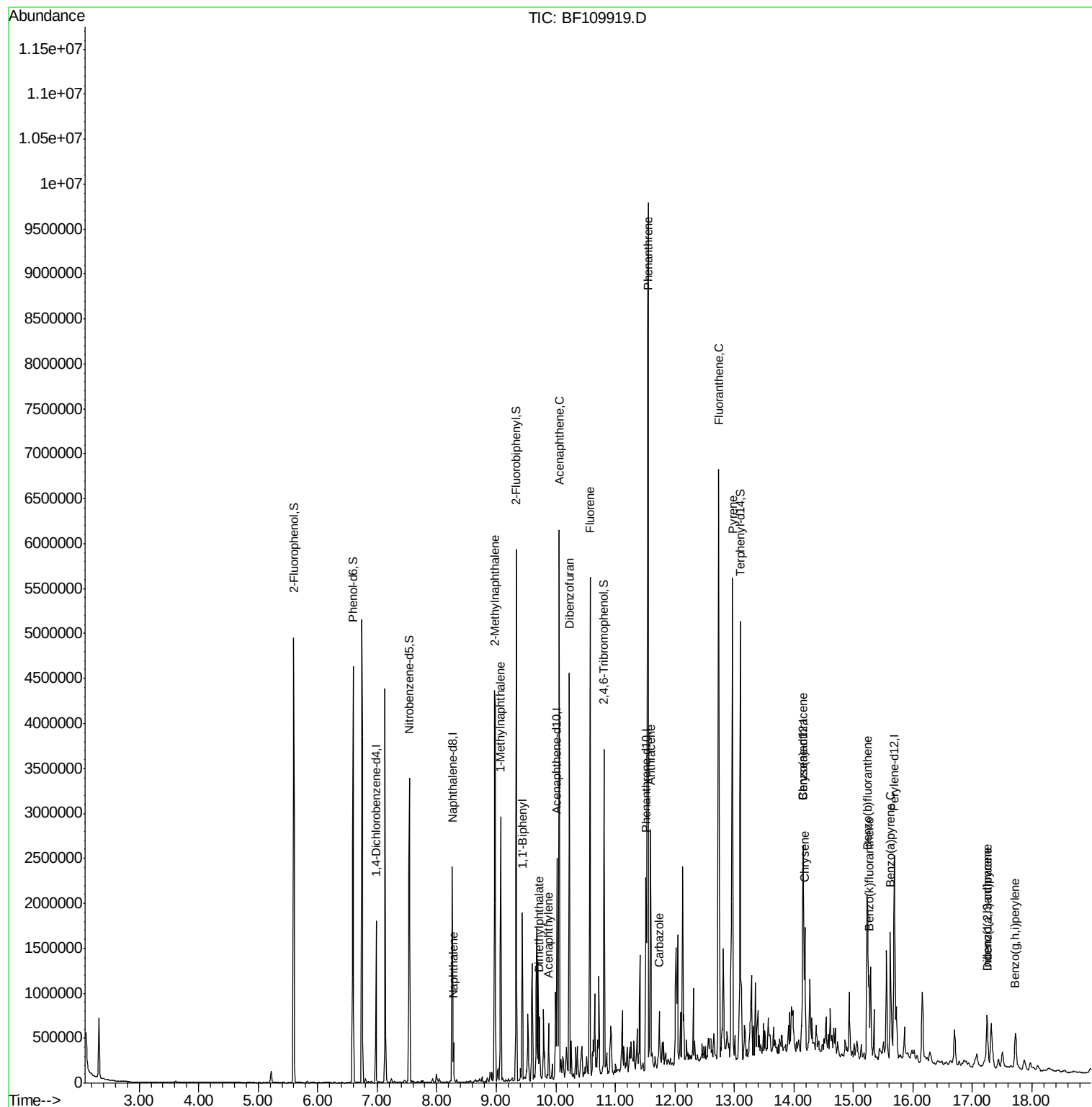
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109919.D  
Acq On : 17 Oct 2018 12:52  
Operator : JU/SJ  
Sample : J5516-06  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

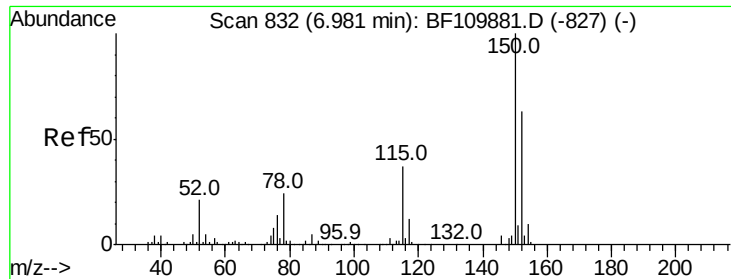
Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

Manual Integrations  
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Quant Time: Oct 17 17:24:03 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 16 14:58:24 2018  
Response via : Initial Calibration





#1

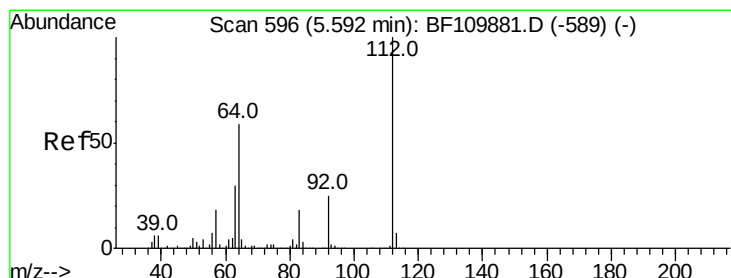
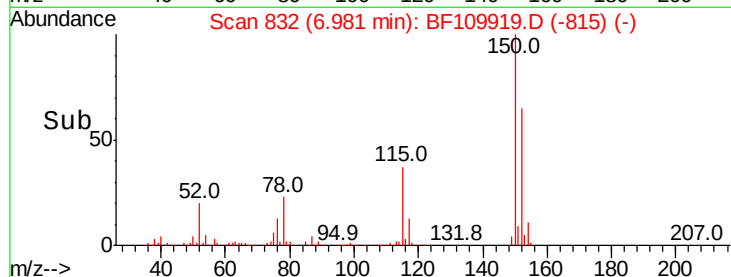
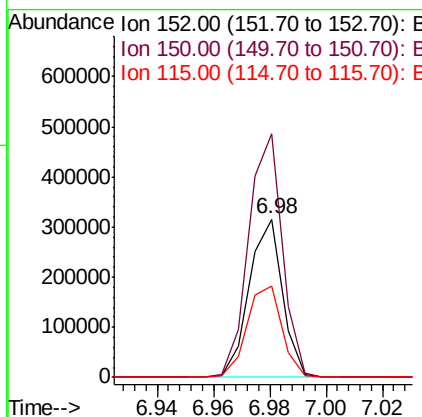
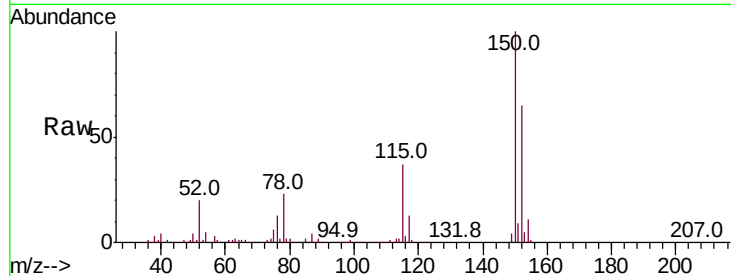
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.98 min Scan# 832  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.1 | 122.7 | 184.1 |
| 115     | 57.7  | 49.1  | 73.7  |

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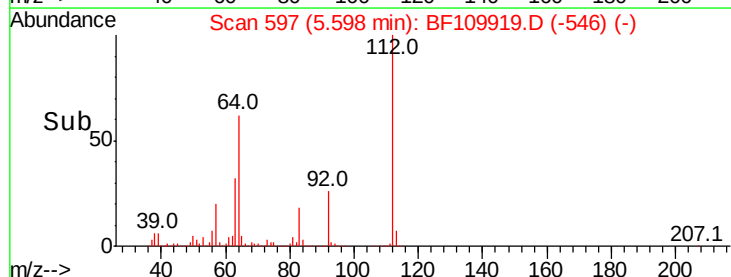
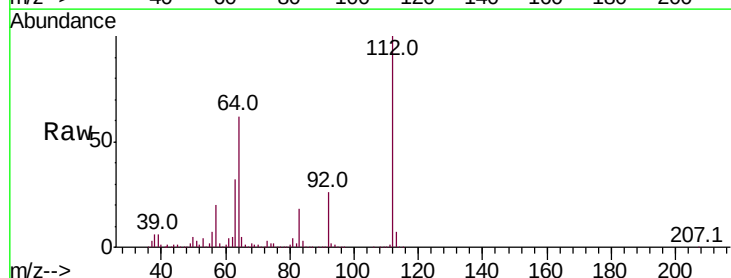
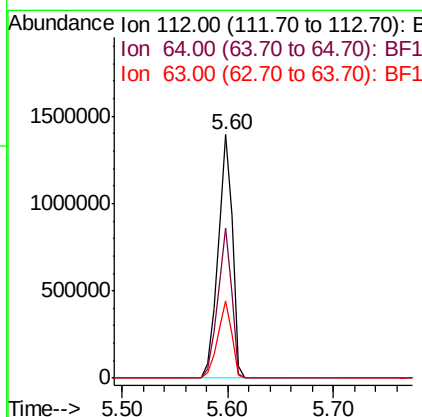
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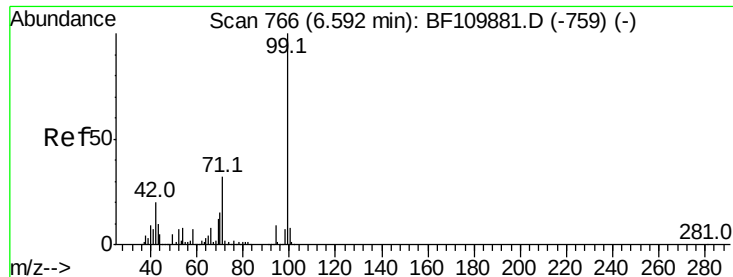


#5

2-Fluorophenol  
Concen: 83.160 ng  
RT: 5.60 min Scan# 597  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.8  | 44.1  | 66.1  |
| 63      | 31.9  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 85.530 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Instrument :

BNA\_F

ClientSampleId :

SSSI-1011-S-DH-30

Tot Ion: 99 Resp: 1726175

Ion Ratio Lower Upper

99 100

42 18.3 15.8 23.6

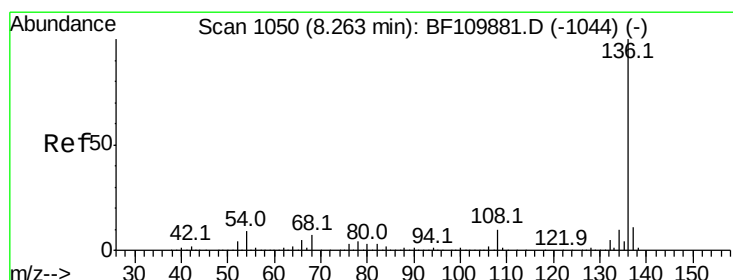
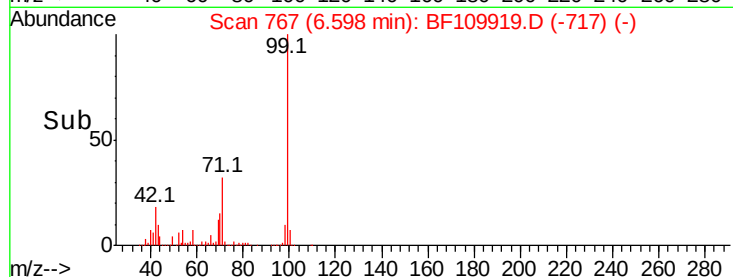
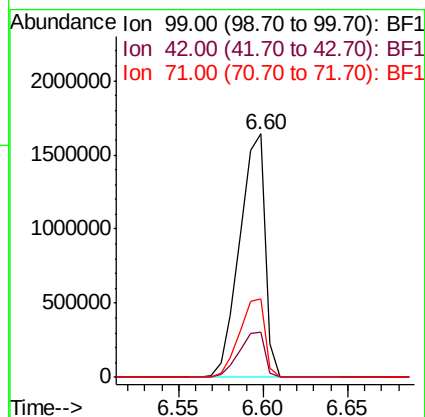
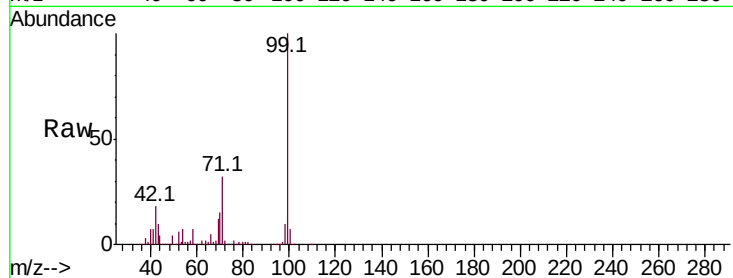
71 32.0 28.0 42.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Tgt Ion: 136 Resp: 985290

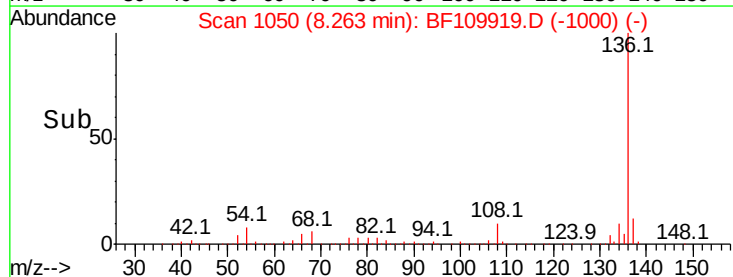
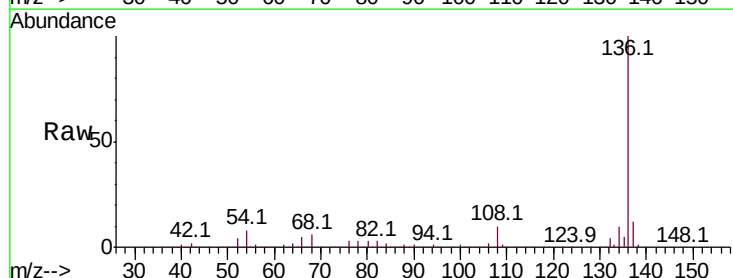
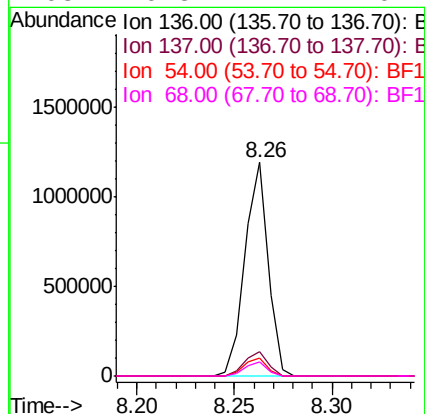
Ion Ratio Lower Upper

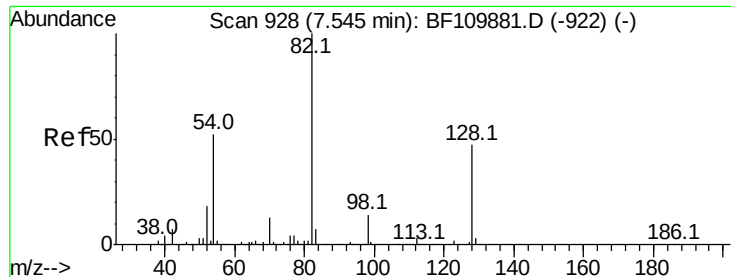
136 100

137 11.5 8.8 13.2

54 8.2 5.4 8.2#

68 6.3 4.2 6.2#





#23

Nitrobenzene-d5

Concen: 72.241 ng

RT: 7.54 min Scan# 927

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Instrument :

BNA\_F

ClientSampleId :

SSSI-1011-S-DH-30

Tot Ion: 82 Resp: 1056628

Ion Ratio Lower Upper

82 100

128 46.1 34.2 51.2

54 53.3 38.6 58.0

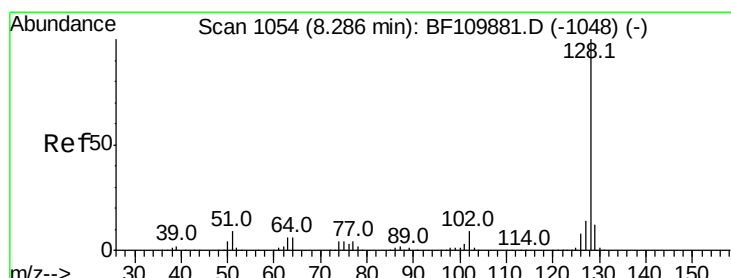
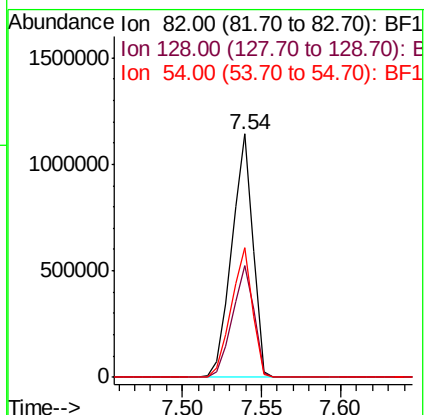
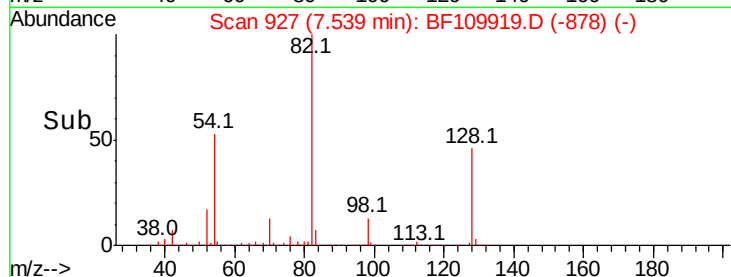
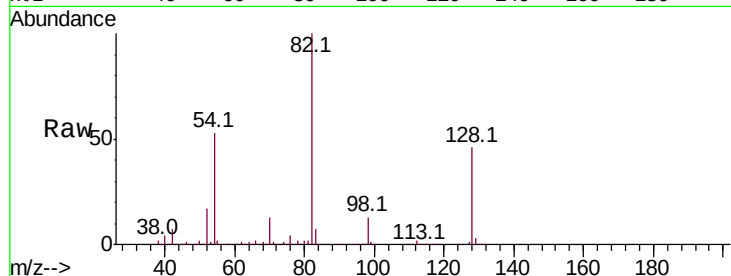
Manual Integrations

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#31

Naphthalene

Concen: 3.743 ng

RT: 8.28 min Scan# 1053

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

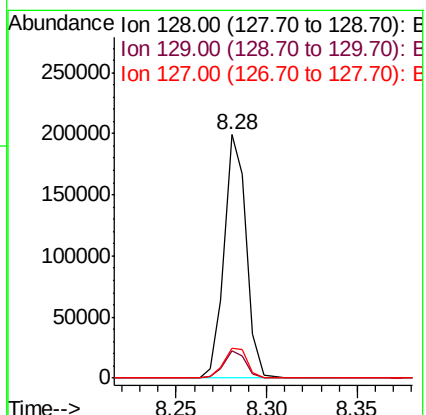
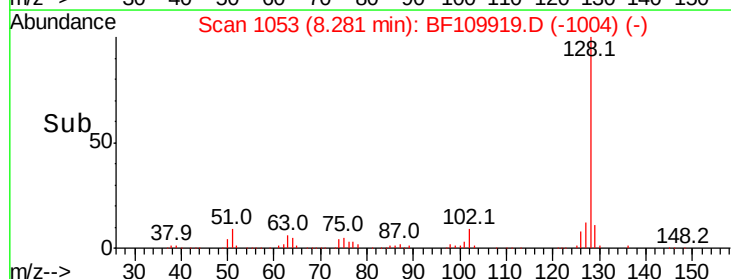
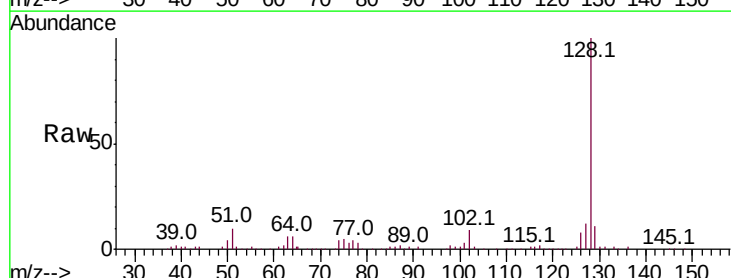
Tgt Ion: 128 Resp: 169127

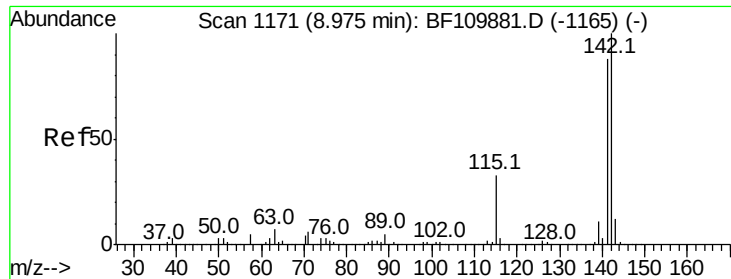
Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

127 12.4 10.8 16.2





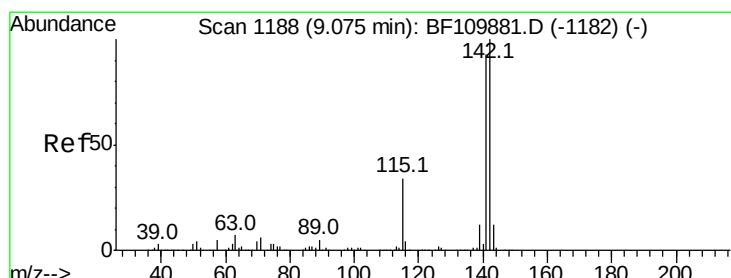
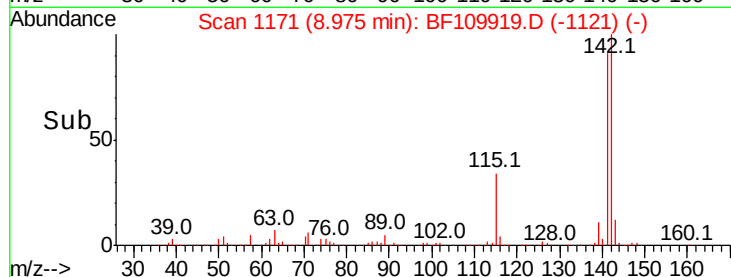
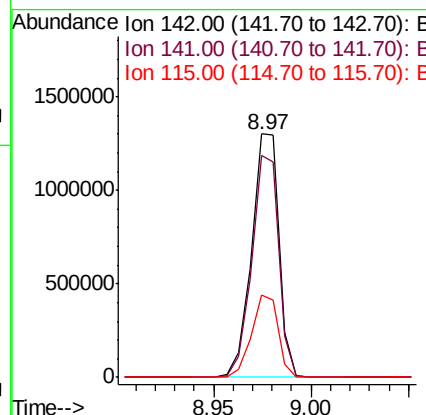
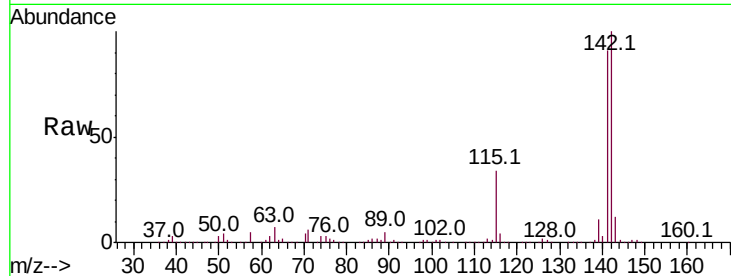
#37  
2-Methylnaphthalene  
Concen: 43.249 ng  
RT: 8.97 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.0  | 71.4  | 107.2 |
| 115     | 34.0  | 28.7  | 43.1  |

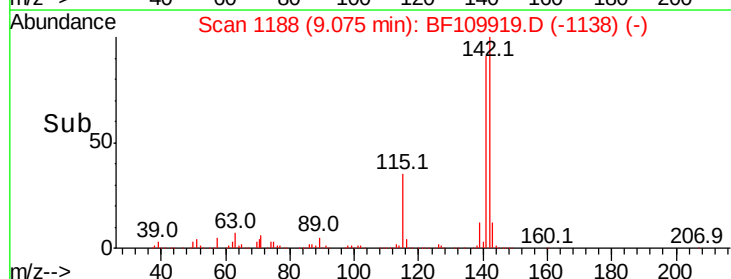
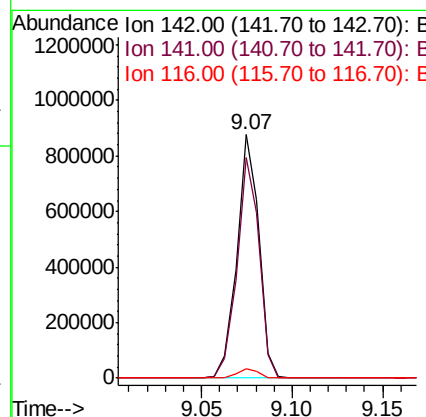
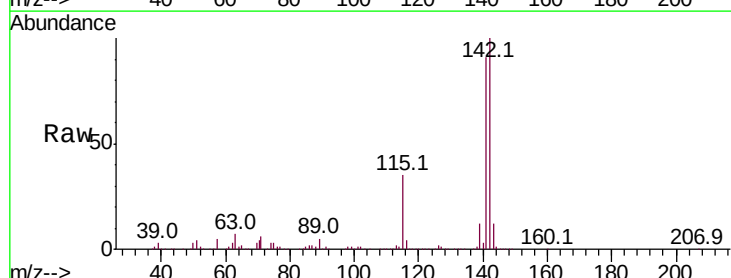
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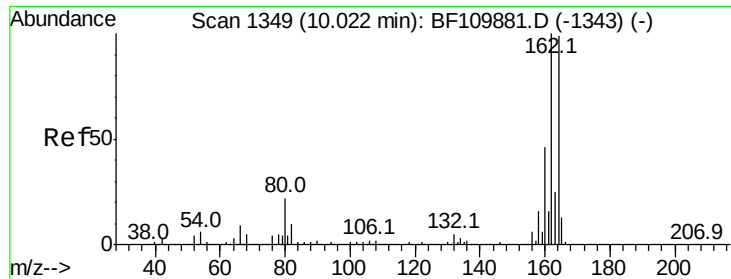
Sohil  
10/18/2018 2:04:11 PM



#38  
1-Methylnaphthalene  
Concen: 26.006 ng  
RT: 9.07 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.5  | 74.2  | 111.4 |
| 116     | 3.8   | 2.6   | 4.0   |





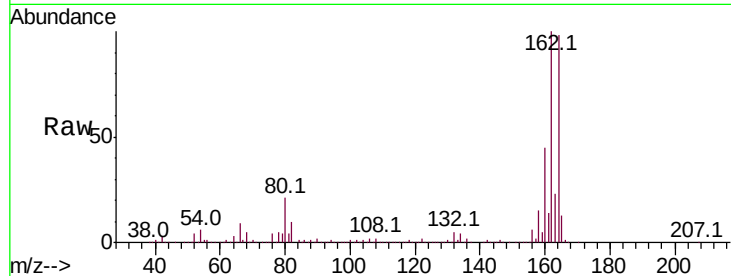
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.02 min Scan# 1349  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.3 | 83.0  | 124.6 |
| 160     | 46.0  | 37.0  | 55.6  |

Manual Integrations  
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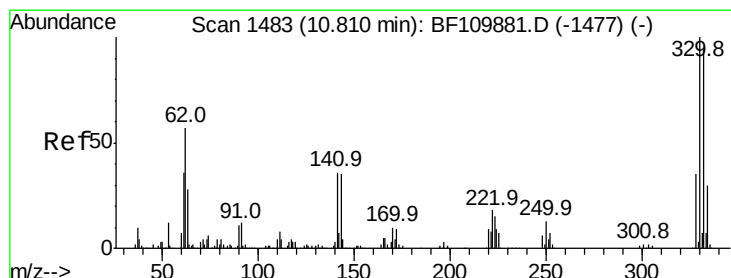
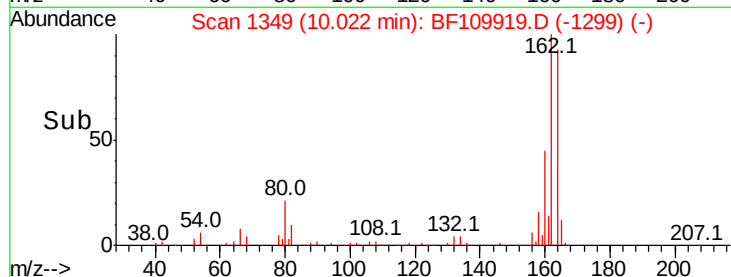
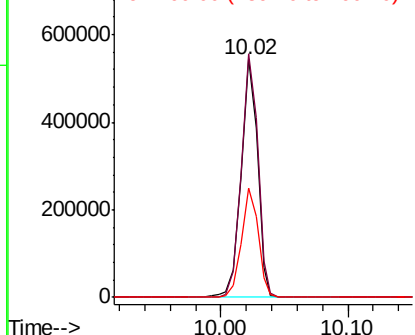


Abundance

Ion 164.00 (163.70 to 164.70): E

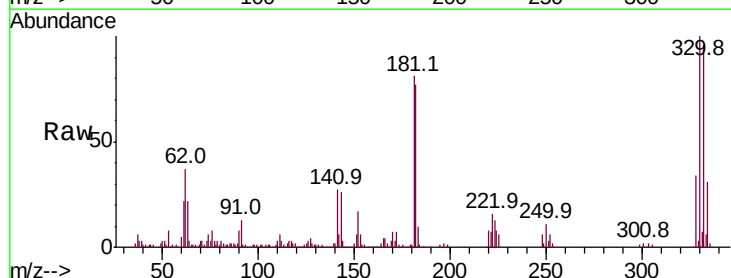
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 70.471 ng  
RT: 10.82 min Scan# 1484  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 77.1  | 115.7 |
| 141     | 36.8  | 27.0  | 40.4  |

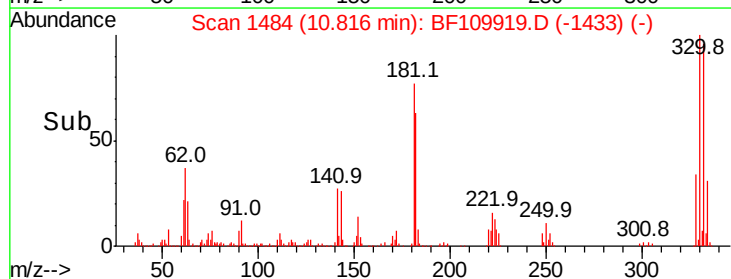
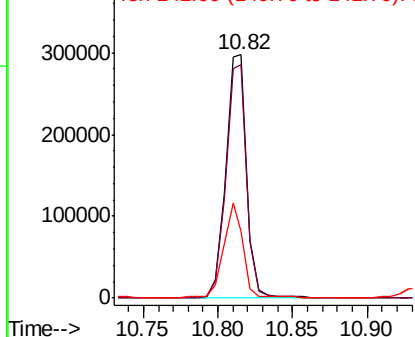


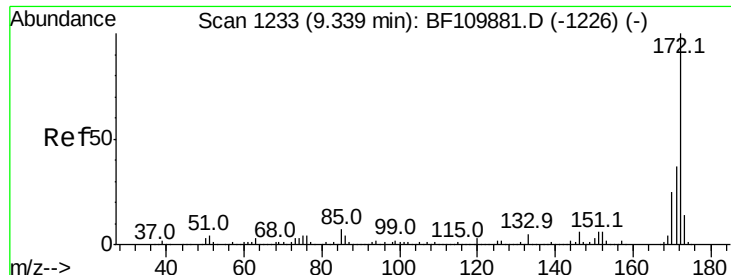
Abundance

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





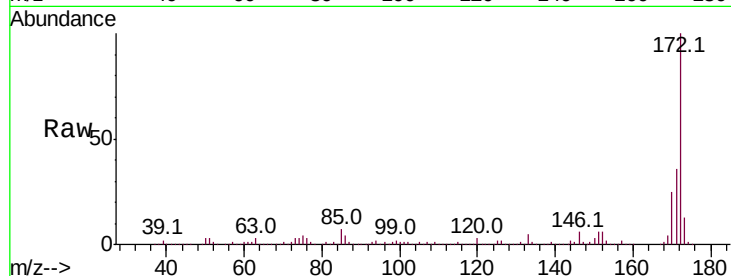
#45  
2-Fluorobiphenyl  
Concen: 61.475 ng  
RT: 9.34 min Scan# 1233  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

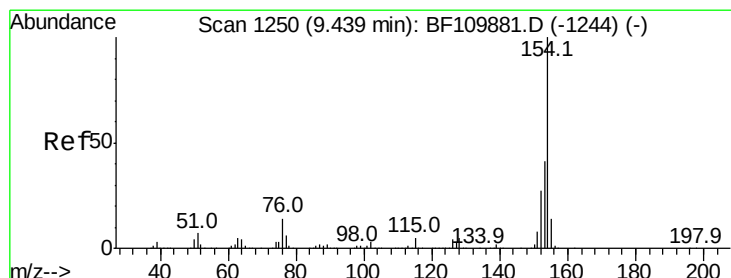
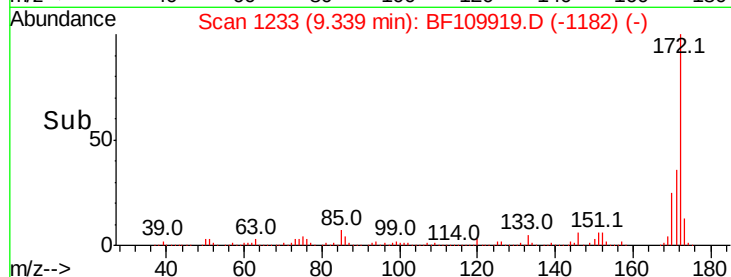
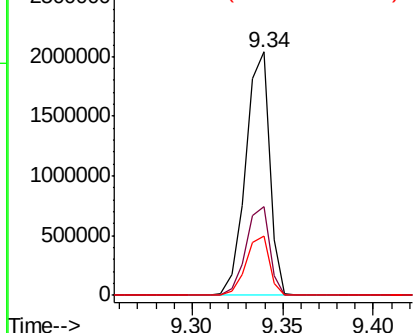
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 28.6  | 43.0  |
| 170     | 24.6  | 19.7  | 29.5  |

Manual Integrations  
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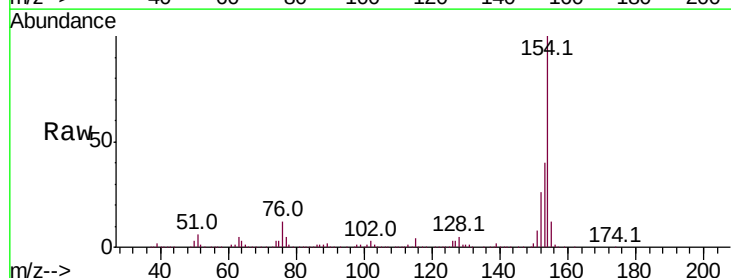


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

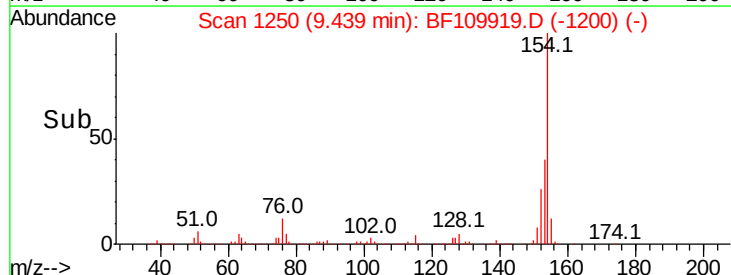
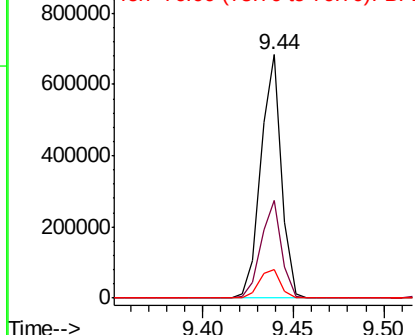


#46  
1,1'-Biphenyl  
Concen: 12.464 ng  
RT: 9.44 min Scan# 1250  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

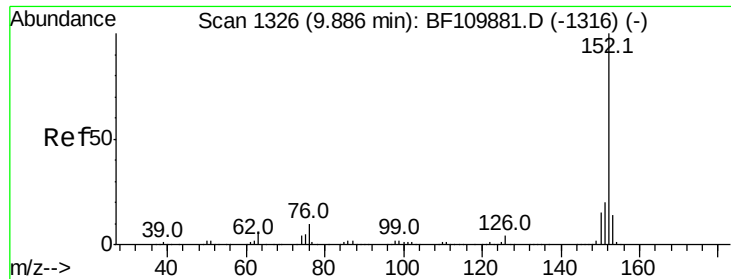
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.3  | 20.4  | 60.4  |
| 76      | 11.9  | 0.0   | 31.9  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1







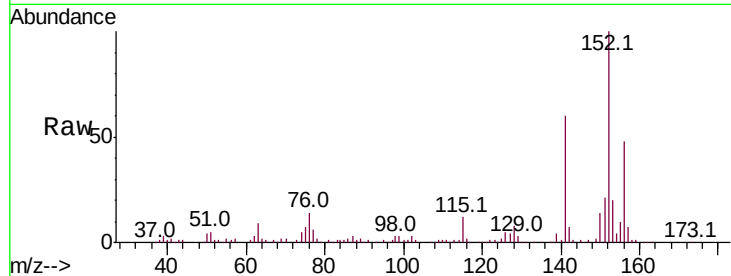
#49  
Acenaphthylene  
Concen: 2.658 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

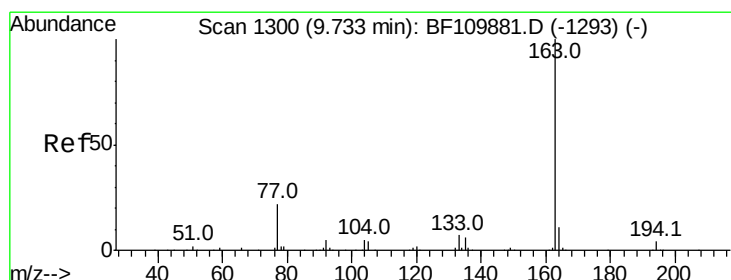
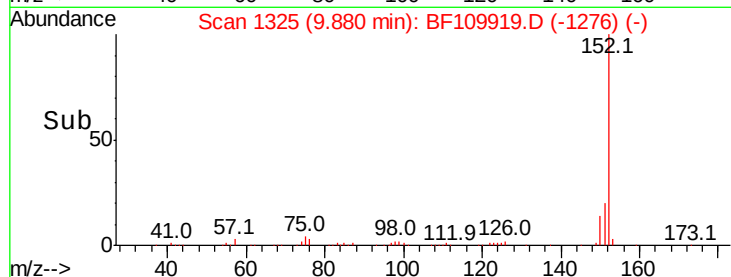
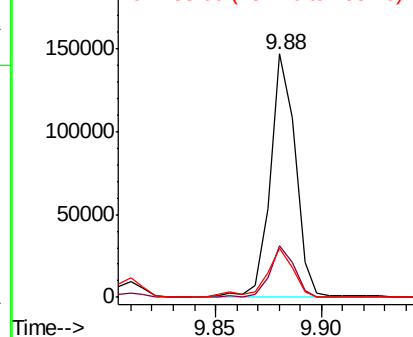
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 152     | 100   |            |       |
| 151     | 21.2  | 15.8       | 23.8  |
| 153     | 20.0  | 10.4       | 15.6  |

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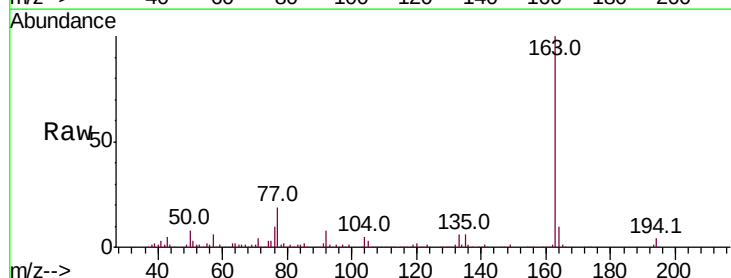


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

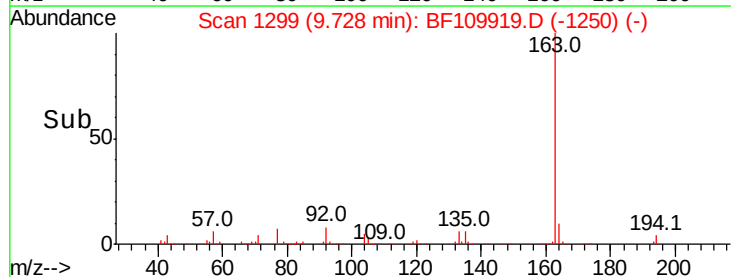
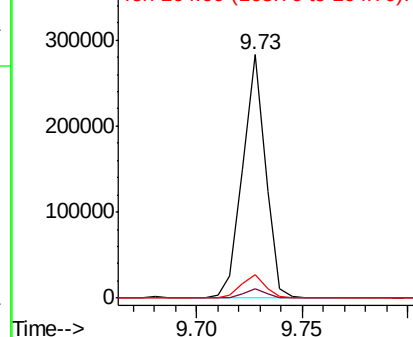


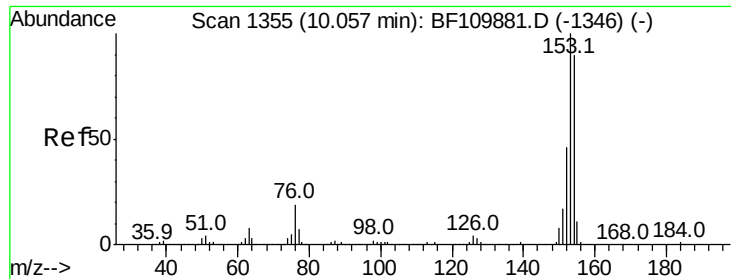
#50  
Dimethylphthalate  
Concen: 6.191 ng  
RT: 9.73 min Scan# 1299  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.7   | 3.2        | 4.8   |
| 164     | 9.7   | 8.1        | 12.1  |



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





#52

Acenaphthene

Concen: 44.870 ng

RT: 10.06 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Instrument :

BNA\_F

ClientSampleId :

SSSI-1011-S-DH-30

Tot Ion:154 Resp: 1316064

Ion Ratio Lower Upper

154 100

153 112.9 90.1 135.1

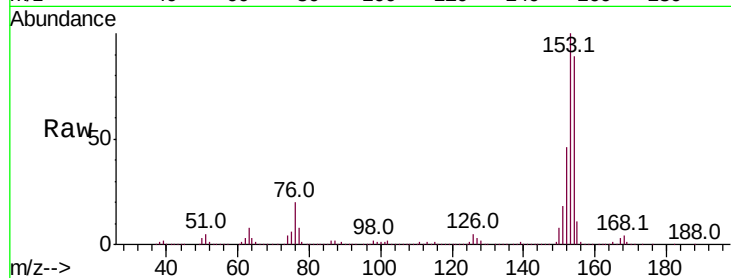
152 52.3 43.4 65.2

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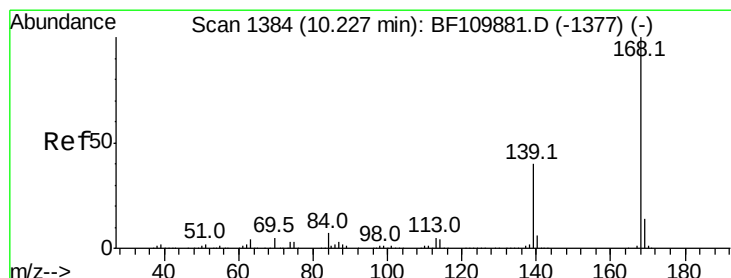
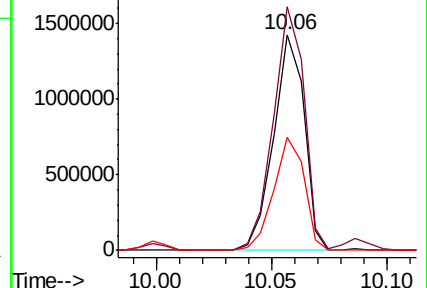
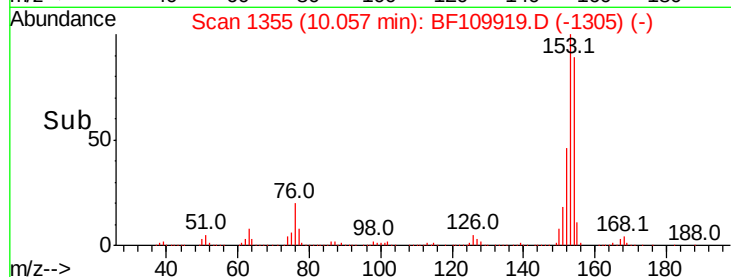
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 40.691 ng

RT: 10.23 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

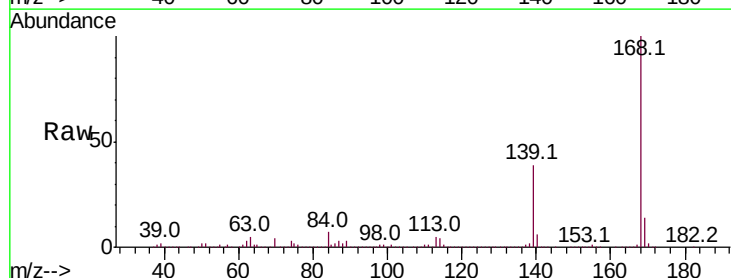
Tgt Ion:168 Resp: 1702082

Ion Ratio Lower Upper

168 100

139 39.4 33.0 49.6

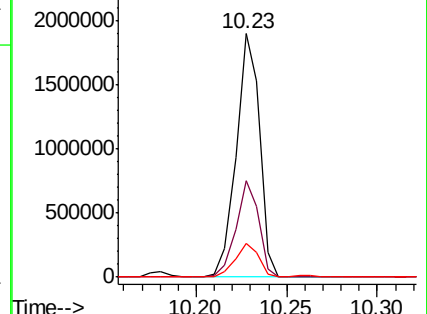
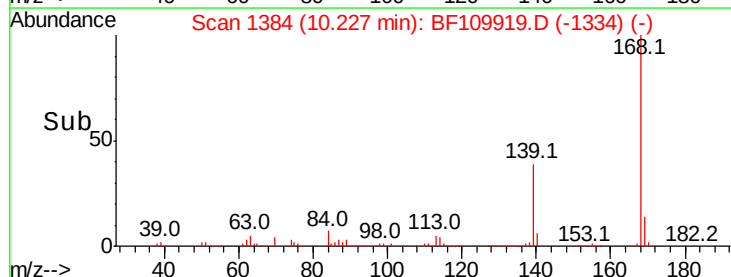
169 14.1 11.3 16.9

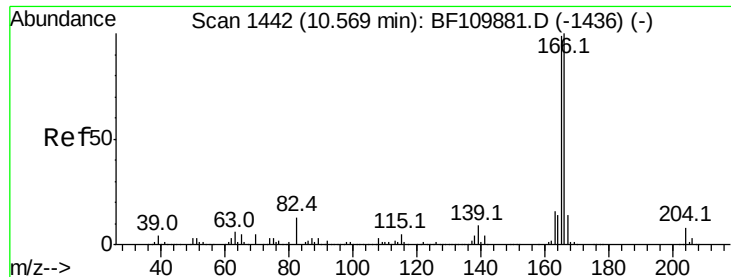


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





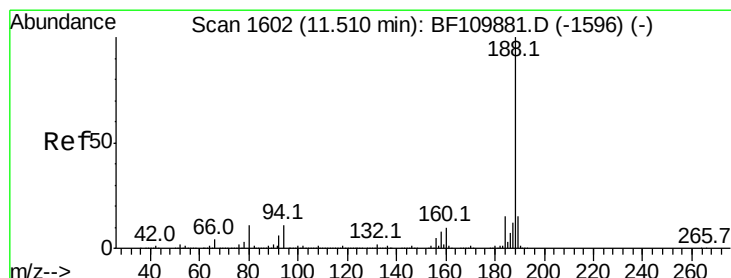
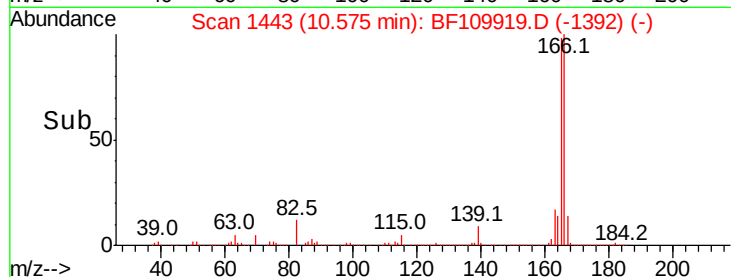
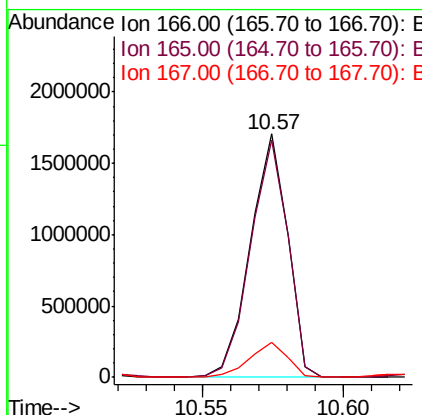
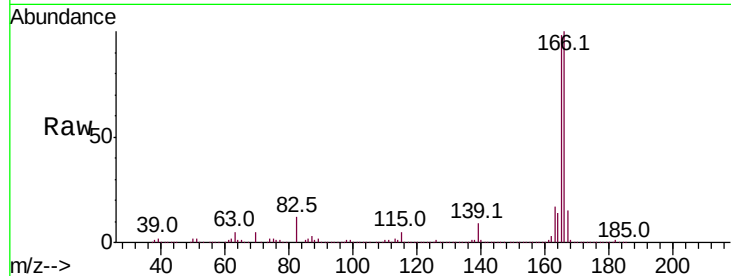
#58  
 Fluorene  
 Concen: 50.897 ng  
 RT: 10.57 min Scan# 1443  
 Delta R.T. -0.00 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.7  | 78.6  | 117.8 |
| 167     | 14.5  | 10.8  | 16.2  |

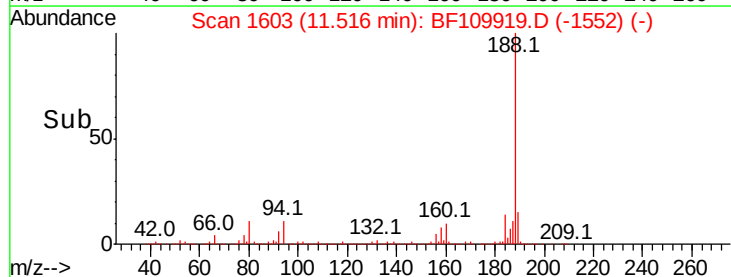
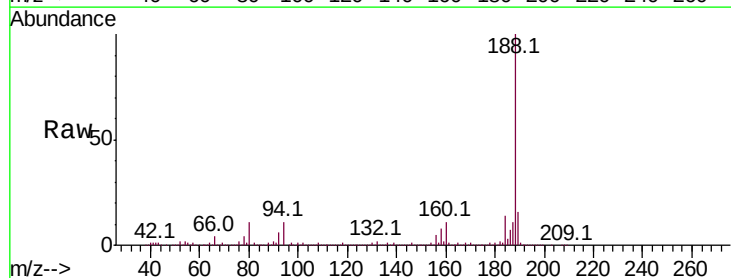
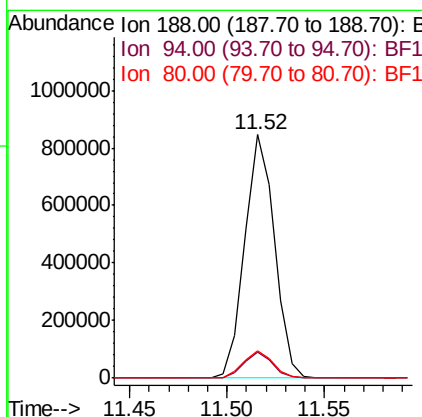
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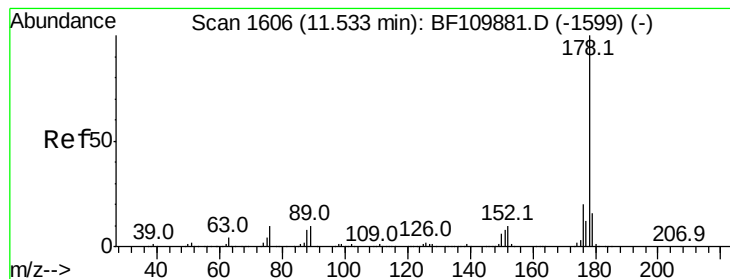
Sohil  
 10/18/2018 2:04:11 PM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.52 min Scan# 1603  
 Delta R.T. -0.00 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.8  | 7.2   | 10.8# |
| 80      | 11.2  | 7.9   | 11.9  |





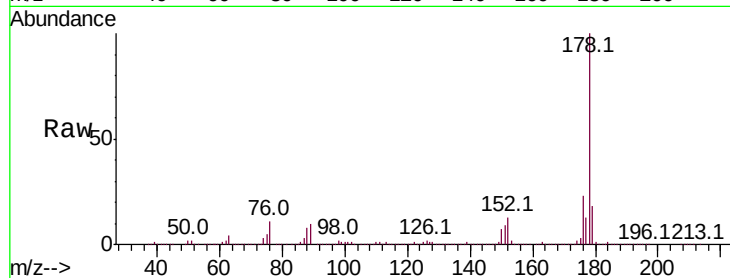
#71  
Phenanthrene  
Concen: 97.081 ng  
RT: 11.55 min Scan# 1609  
Delta R.T. 0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

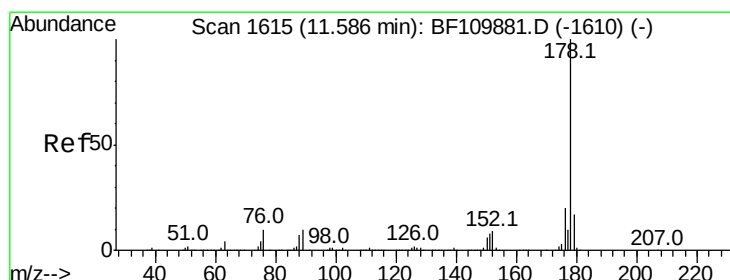
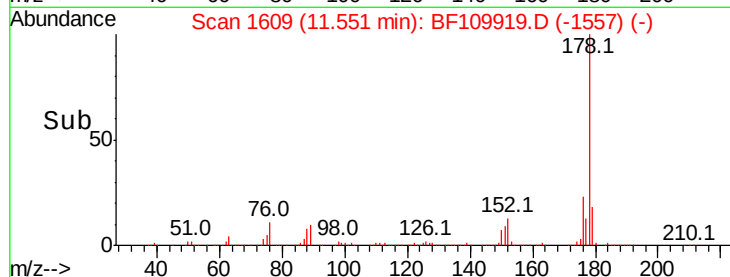
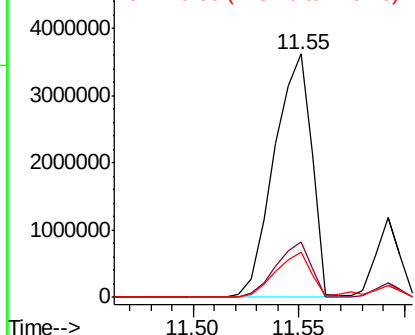
Tot Ion:178 Resp: 4491906  
Ion Ratio Lower Upper  
178 100  
176 23.0 15.5 23.3  
179 18.5 12.5 18.7

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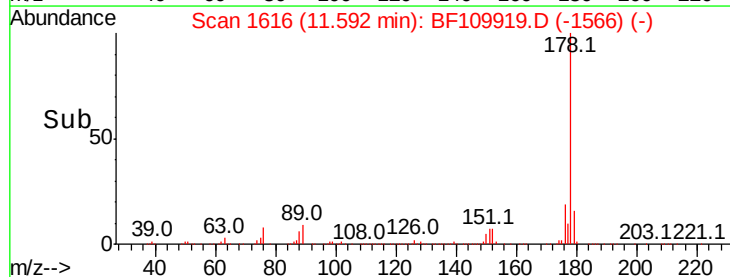
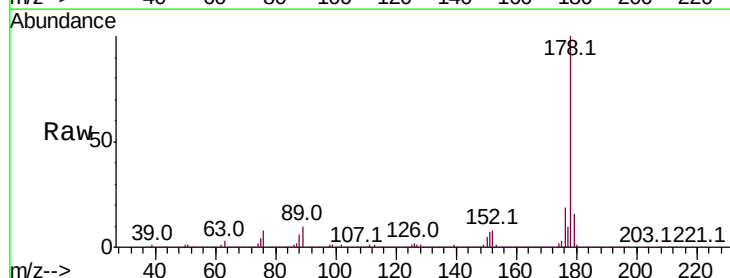
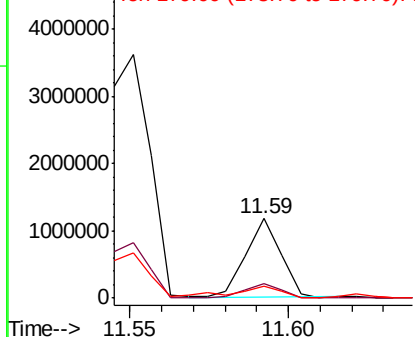
Abundance Ion 178.00 (177.70 to 178.70): E  
5000000 Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

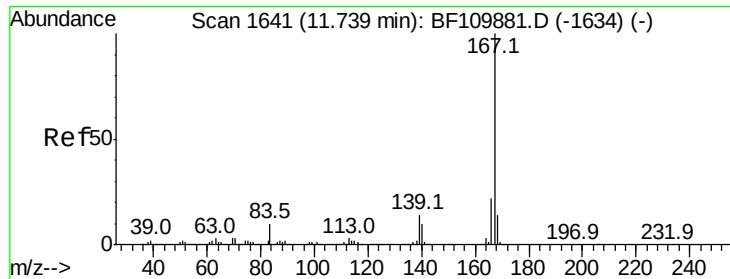


#72  
Anthracene  
Concen: 19.414 ng  
RT: 11.59 min Scan# 1616  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Tgt Ion:178 Resp: 903114  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.4 23.2  
179 15.7 12.6 18.8

Abundance Ion 178.00 (177.70 to 178.70): E  
5000000 Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





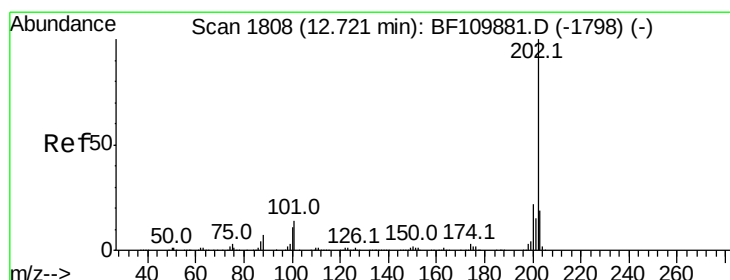
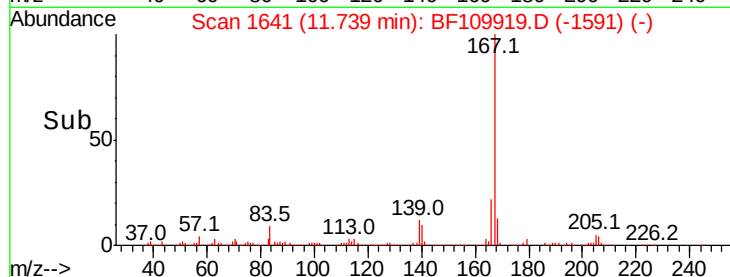
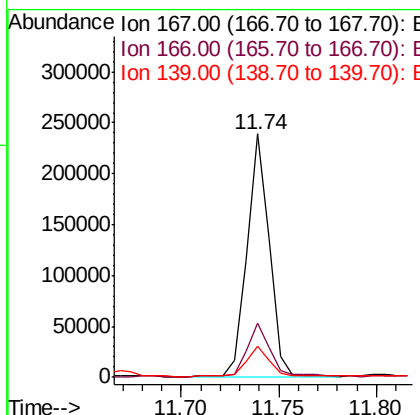
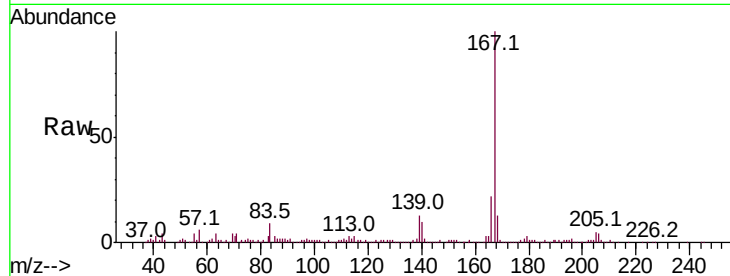
#73  
 Carbazole  
 Concen: 4.080 ng  
 RT: 11.74 min Scan# 1641  
 Delta R.T. -0.01 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.4  | 17.4  | 26.0  |
| 139     | 12.8  | 10.9  | 16.3  |

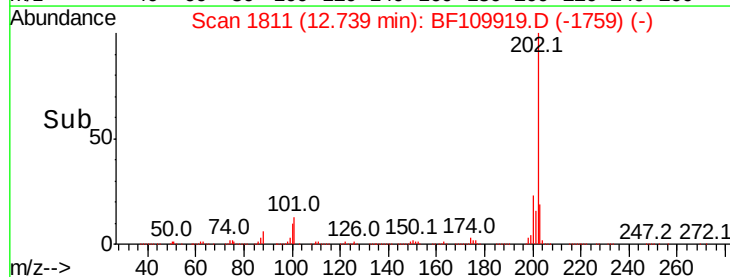
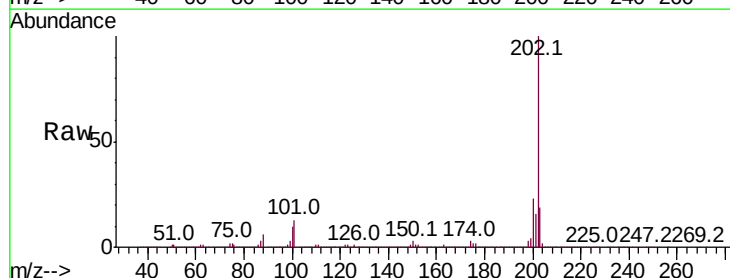
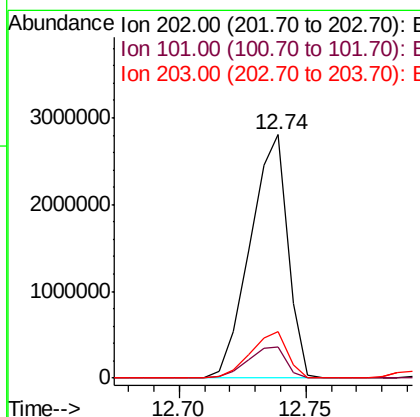
Manual Integrations  
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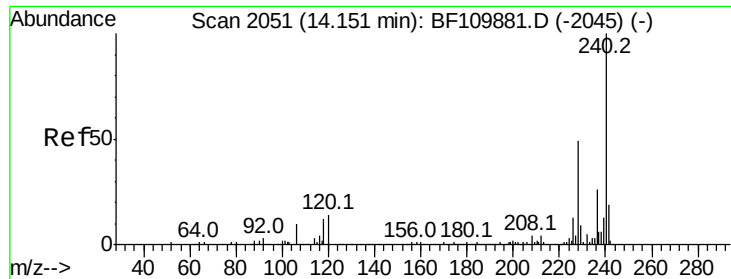
Sohil  
 10/18/2018 2:04:11 PM



#75  
 Fluoranthene  
 Concen: 62.784 ng  
 RT: 12.74 min Scan# 1811  
 Delta R.T. 0.01 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.7  | 0.0   | 31.4  |
| 203     | 19.2  | 0.0   | 37.7  |





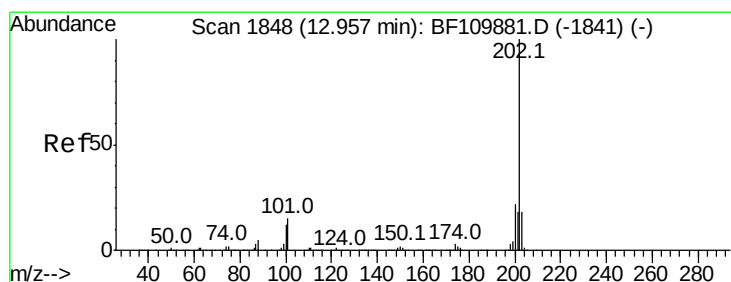
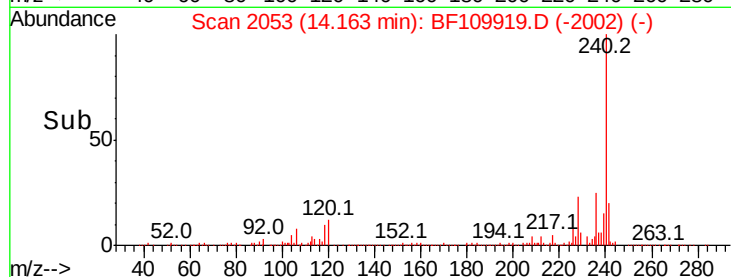
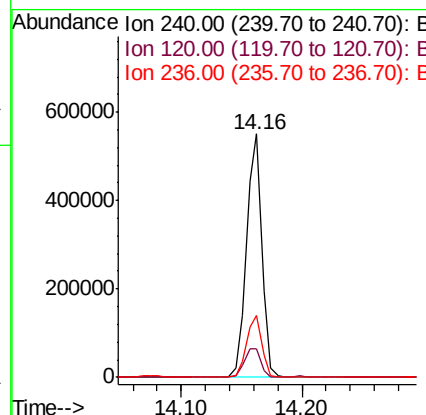
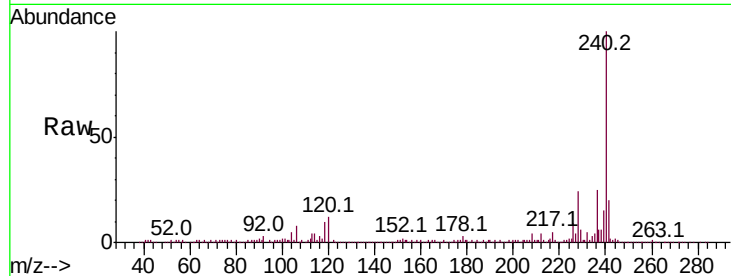
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.16 min Scan# 2053  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.7  | 8.3   | 12.5  |
| 236     | 25.4  | 21.2  | 31.8  |

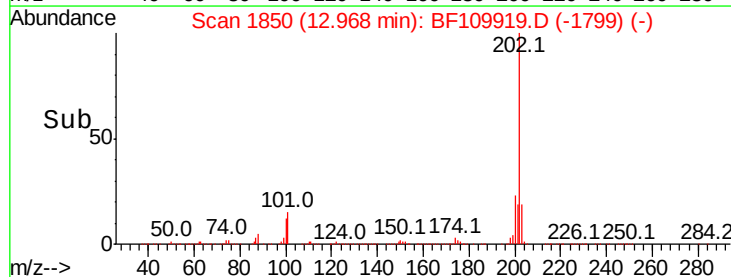
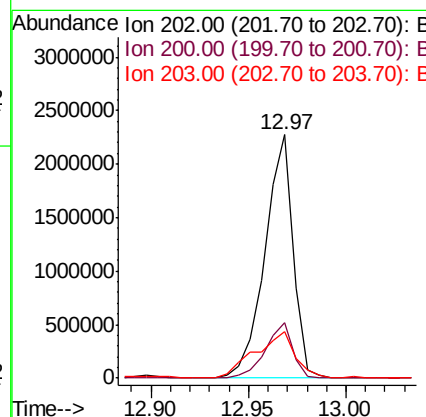
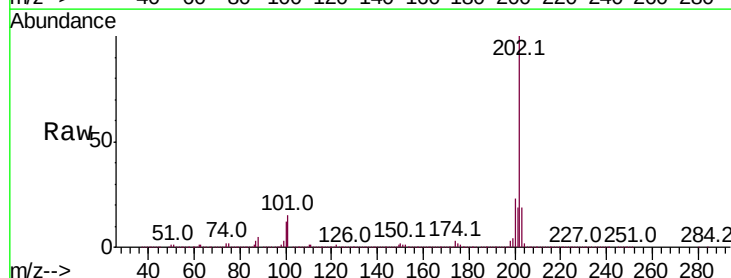
Manual Integrations  
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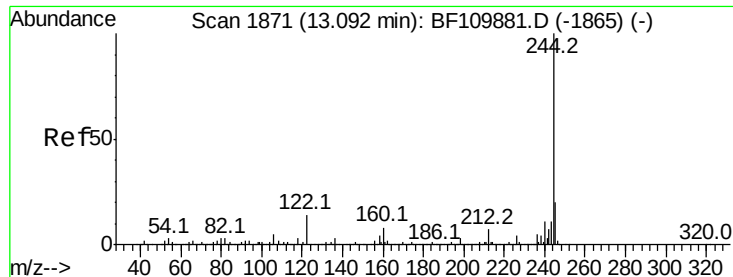
Sohil  
10/18/2018 2:04:11 PM



#78  
Pyrene  
Concen: 63.582 ng  
RT: 12.97 min Scan# 1850  
Delta R.T. -0.00 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.8  | 17.8  | 26.6  |
| 203     | 19.3  | 14.2  | 21.4  |





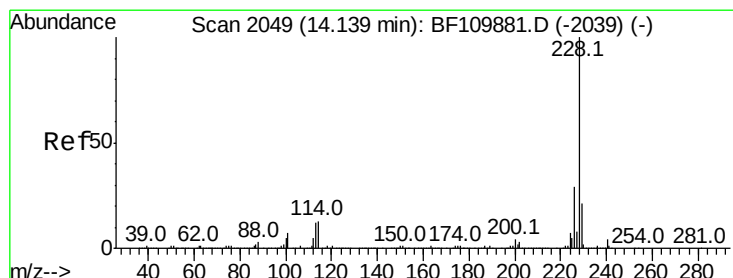
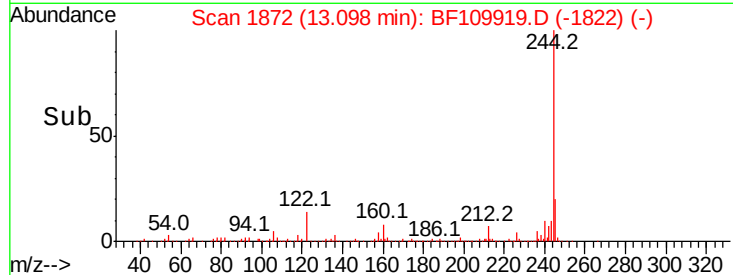
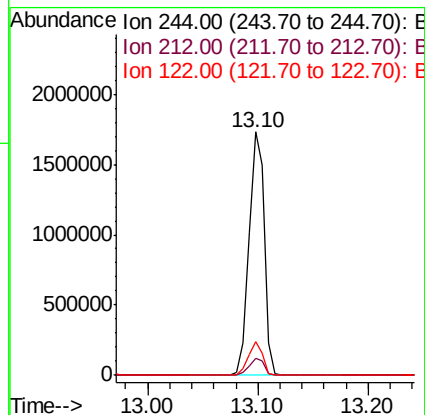
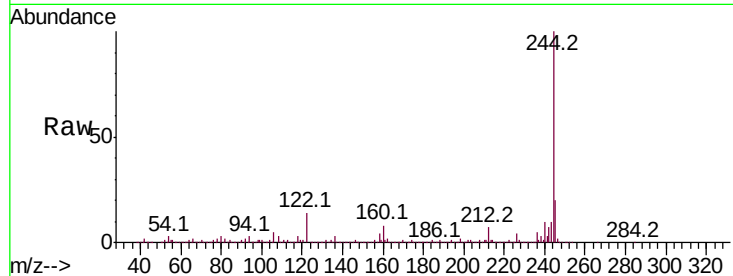
#79  
 Terphenyl-d14  
 Concen: 72.346 ng  
 RT: 13.10 min Scan# 1872  
 Delta R.T. -0.01 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.8   | 8.8   |
| 122     | 13.6  | 8.7   | 13.1# |

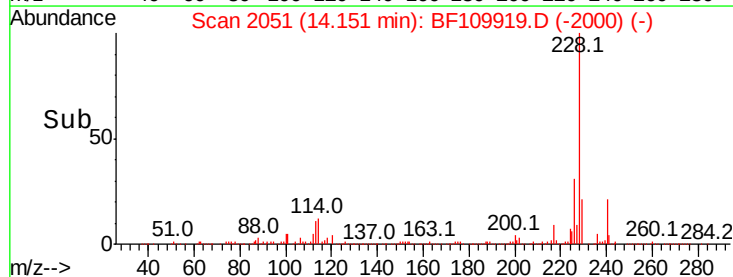
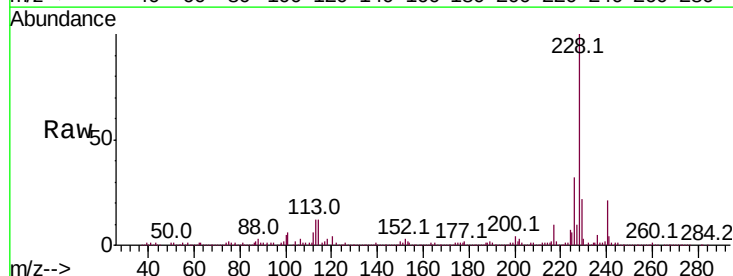
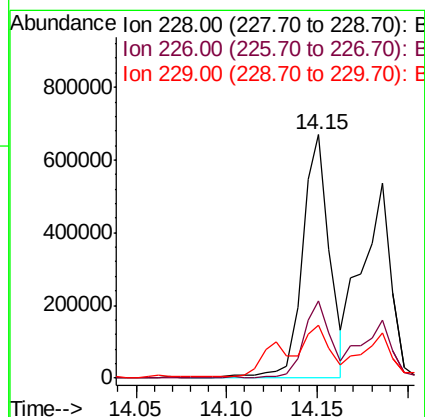
Manual Integrations  
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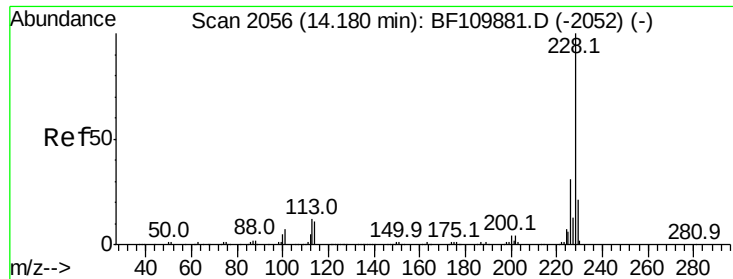
Sohil  
 10/18/2018 2:04:11 PM



#81  
 Benzo(a)anthracene  
 Concen: 24.296 ng  
 RT: 14.15 min Scan# 2051  
 Delta R.T. -0.00 min  
 Lab File: BF109919.D  
 Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 22.1  | 33.1  |
| 229     | 21.6  | 15.6  | 23.4  |





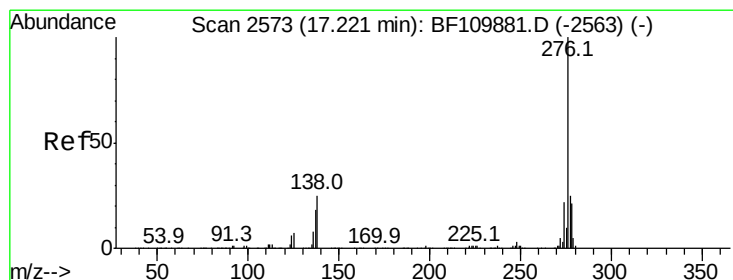
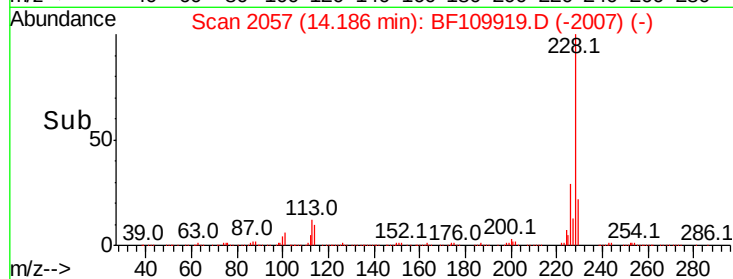
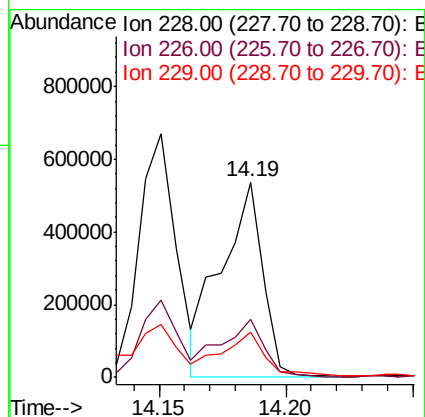
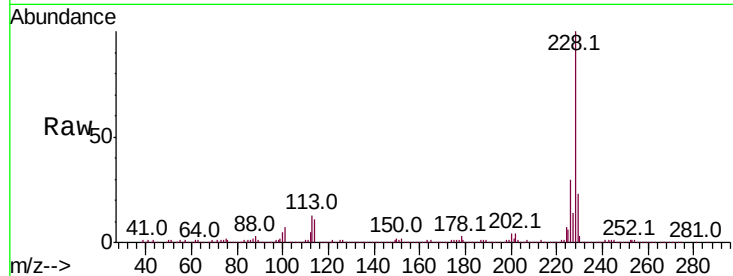
#83  
Chrysene  
Concen: 22.361 ng  
RT: 14.19 min Scan# 2057  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 609596 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.8  | 24.7  | 37.1   |
| 229       | 23.1  | 15.9  | 23.9   |

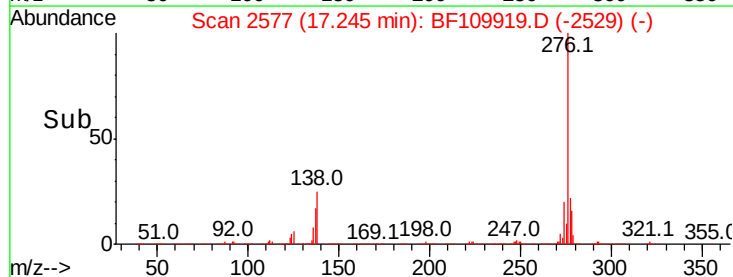
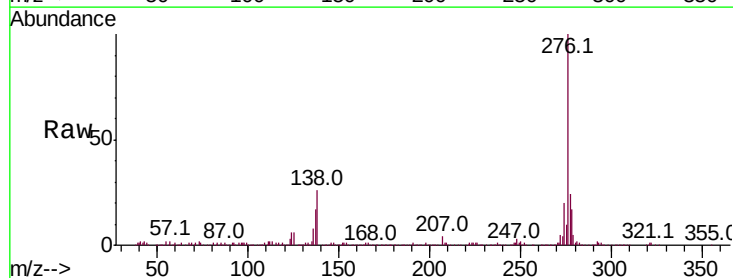
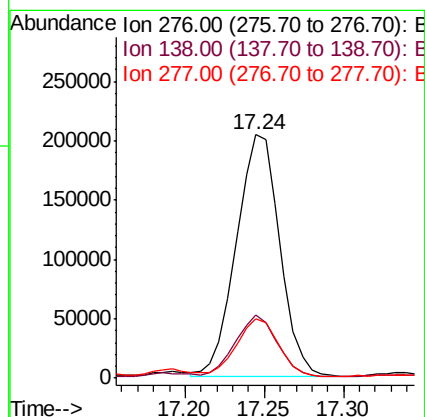
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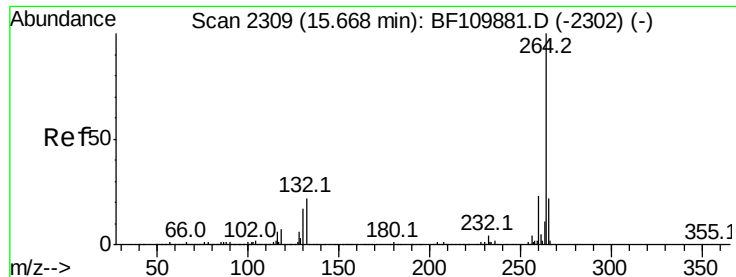


#86  
Indeno(1,2,3-cd)pyrene  
Concen: 17.720 ng  
RT: 17.24 min Scan# 2577  
Delta R.T. -0.02 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 388943 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 24.3  | 18.5  | 27.7   |
| 277       | 23.3  | 20.0  | 30.0   |







#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2313

Delta R.T. -0.00 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Instrument :

BNA\_F

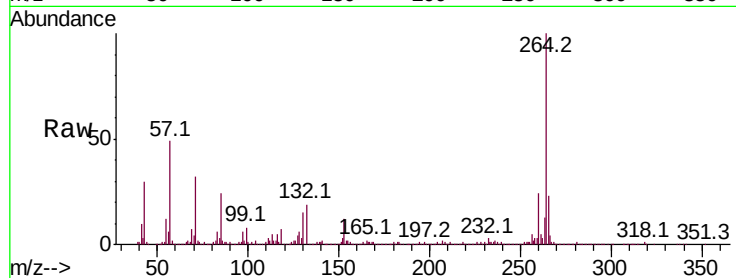
ClientSampleId :

SSSI-1011-S-DH-30

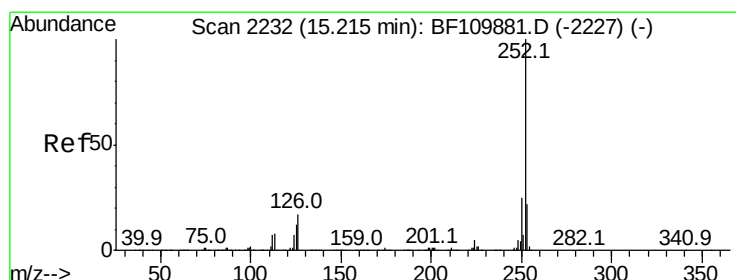
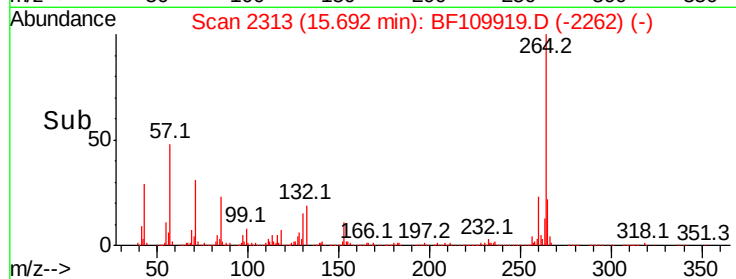
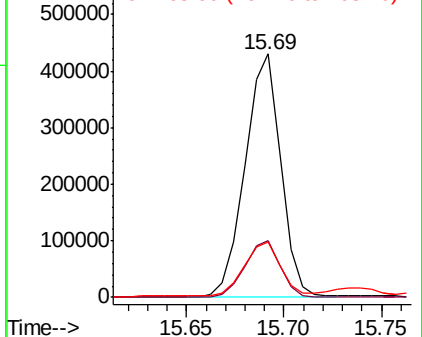
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 542702 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.5  | 18.7  | 28.1   |
| 265       | 22.5  | 16.7  | 25.1   |

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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



#88

Benzo(b)fluoranthene

Concen: 34.652 ng m

RT: 15.23 min Scan# 2235

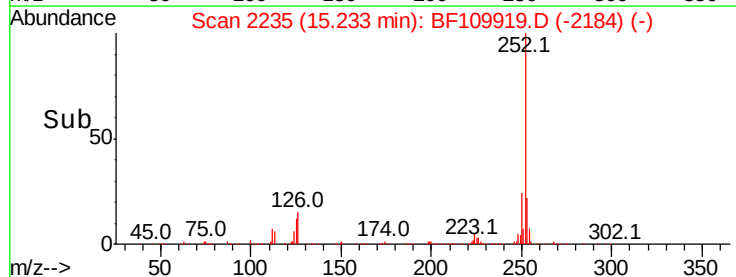
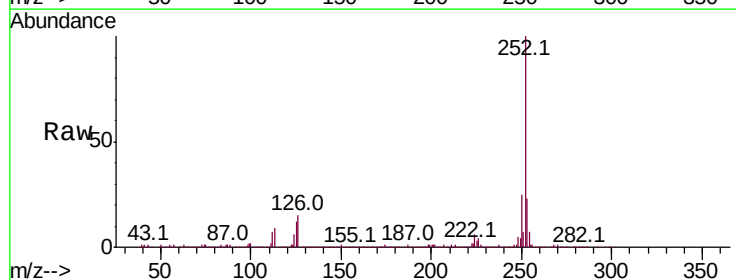
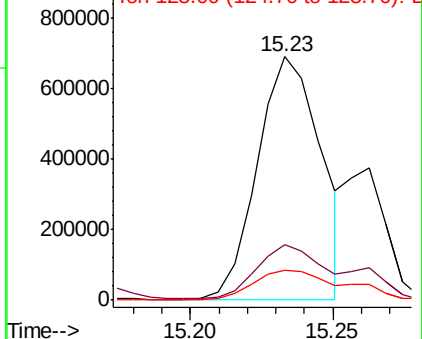
Delta R.T. -0.00 min

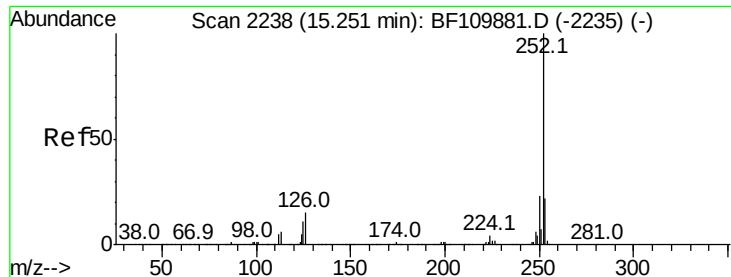
Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1084190 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.5  | 17.2  | 25.8    |
| 125       | 12.5  | 8.2   | 12.4#   |

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





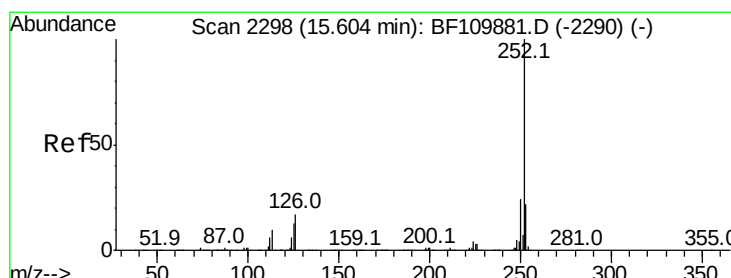
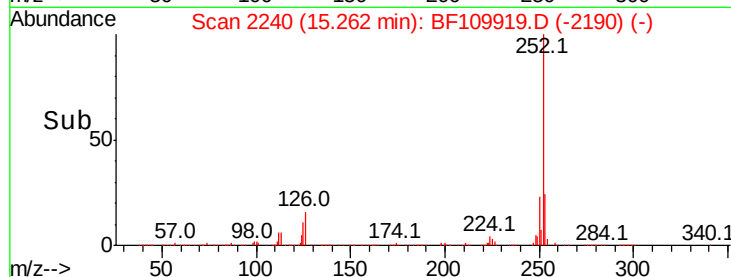
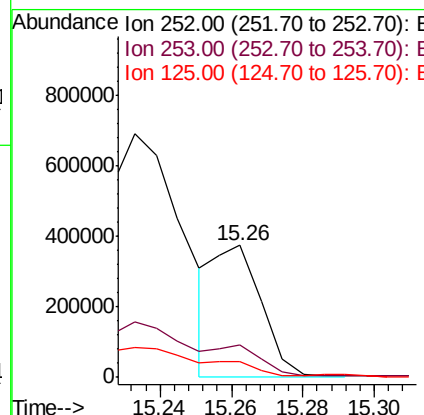
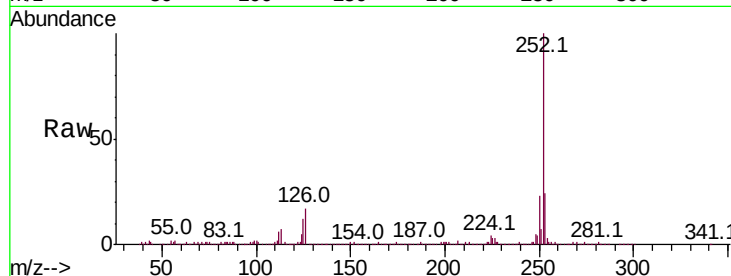
#89  
Benzo(k)fluoranthene  
Concen: 11.514 ng m  
RT: 15.26 min Scan# 2240  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

Instrument :  
BNA\_F  
ClientSampleId :  
SSSI-1011-S-DH-30

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.2  | 25.8  |
| 125     | 11.6  | 7.4   | 11.0  |

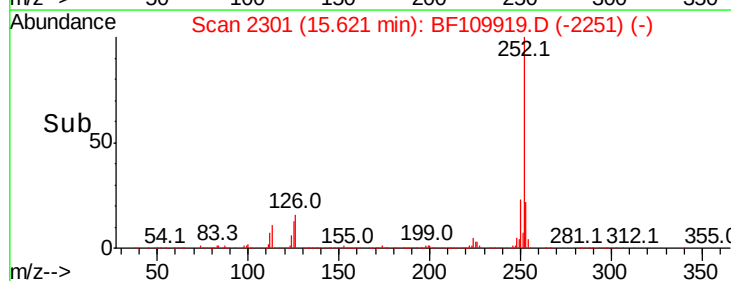
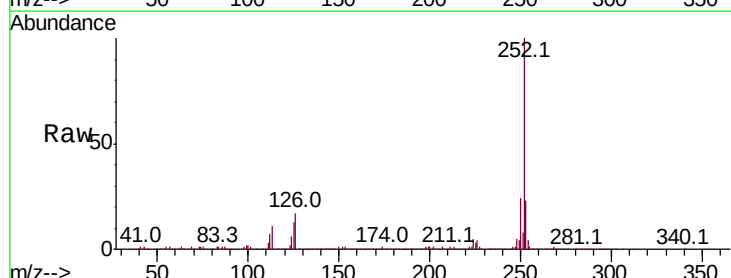
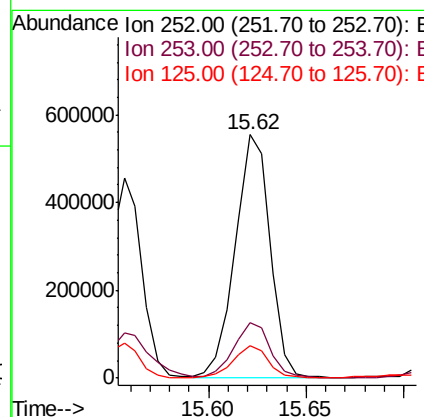
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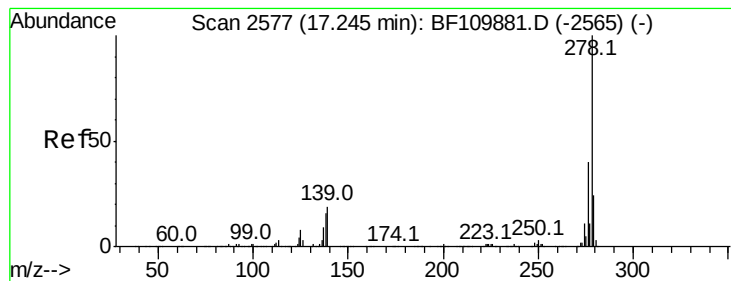
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#90  
Benzo(a)pyrene  
Concen: 23.743 ng  
RT: 15.62 min Scan# 2301  
Delta R.T. -0.01 min  
Lab File: BF109919.D  
Acq: 17 Oct 2018 12:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.2  | 27.4  |
| 125     | 13.1  | 9.0   | 13.6  |





#91

Dibenzo(a,h)anthracene

Concen: 3.528 ng/mL

RT: 17.25 min Scan# 2578

Delta R.T. -0.03 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

Instrument :

BNA\_F

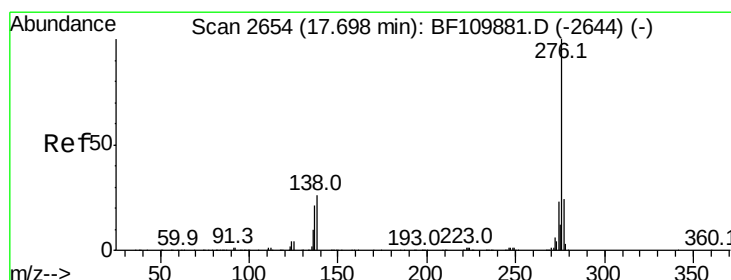
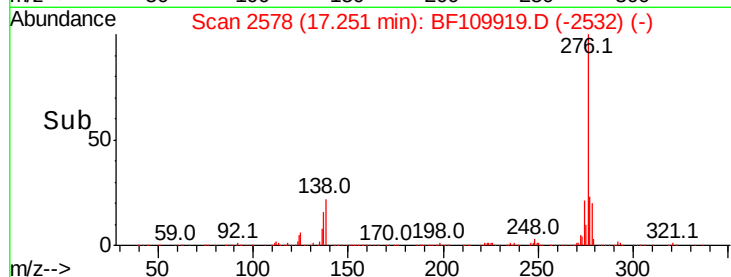
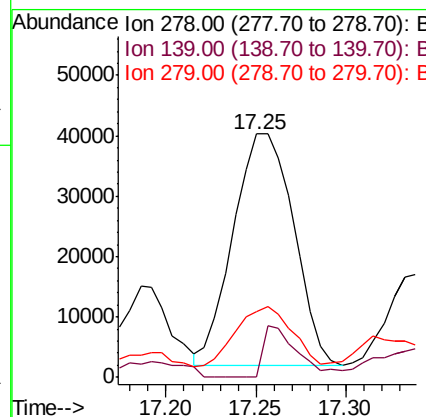
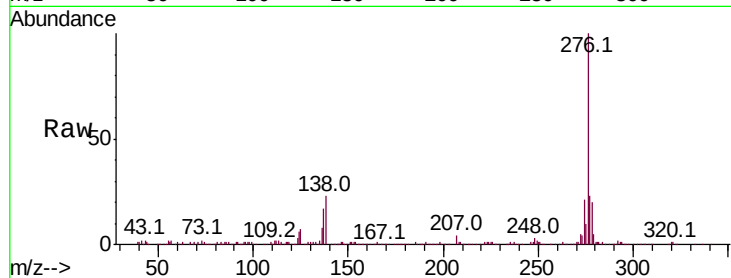
ClientSampleId :

SSSI-1011-S-DH-30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 89971 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 0.0   | 12.7  | 19.1# |
| 279       | 27.2  | 19.0  | 28.4  |

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#92

Benzo(g,h,i)perylene

Concen: 12.655 ng/mL

RT: 17.73 min Scan# 2659

Delta R.T. -0.01 min

Lab File: BF109919.D

Acq: 17 Oct 2018 12:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 326077 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.3  | 18.8  | 28.2   |
| 138       | 25.0  | 16.0  | 24.0#  |

