

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
 Data File : BF109275.D  
 Acq On : 24 Sep 2018 18:37  
 Operator : JU/SJ  
 Sample : J4770-13 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-G

Manual Integrations  
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 9/25/2018 9:57:22 AM

Quant Time: Sep 25 05:22:44 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.71  | 152  | 118139   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8          | 7.99  | 136  | 461271   | 20.00 | ng    | 0.00        |
| 38) Acenaphthene-d10        | 9.74  | 164  | 206026   | 20.00 | ng    | 0.00        |
| 63) Phenanthrene-d10        | 11.22 | 188  | 349302   | 20.00 | ng    | 0.00        |
| 75) Chrysene-d12            | 13.84 | 240  | 275334   | 20.00 | ng    | 0.00        |
| 86) Perylene-d12            | 15.25 | 264  | 210942   | 20.00 | ng    | 0.01        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.31  | 112  | 248905   | 34.70 | ng    | 0.00        |
| 7) Phenol-d6                | 6.34  | 99   | 319888   | 34.95 | ng    | -0.02       |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 188997   | 24.19 | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 69431    | 34.19 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 337697   | 24.72 | ng    | -0.01       |
| 78) Terphenyl-d14           | 12.80 | 244  | 258556   | 23.05 | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 49) Dimethylphthalate       | 9.46  | 163  | 93730    | 6.255 | ng    | Qvalue # 99 |
| 70) Phenanthrene            | 11.24 | 178  | 95767    | 5.491 | ng    | 98          |
| 74) Fluoranthene            | 12.43 | 202  | 170494   | 9.148 | ng    | 93          |
| 77) Pyrene                  | 12.65 | 202  | 166124   | 8.419 | ng    | 98          |
| 80) Benzo(a)anthracene      | 13.83 | 228  | 82930    | 5.001 | ng    | 93          |
| 82) Chrysene                | 13.87 | 228  | 70724    | 4.303 | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.59 | 276  | 30256    | 2.271 | ng    | # 91        |
| 87) Benzo(b)fluoranthene    | 14.85 | 252  | 84250m   | 7.269 | ng    |             |
| 88) Benzo(k)fluoranthene    | 14.87 | 252  | 22536m   | 2.049 | ng    |             |
| 89) Benzo(a)pyrene          | 15.19 | 252  | 54783    | 5.245 | ng    | # 90        |
| 91) Benzo(a,h,i)perylene    | 17.00 | 276  | 26746    | 3.176 | ng    | # 91        |

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

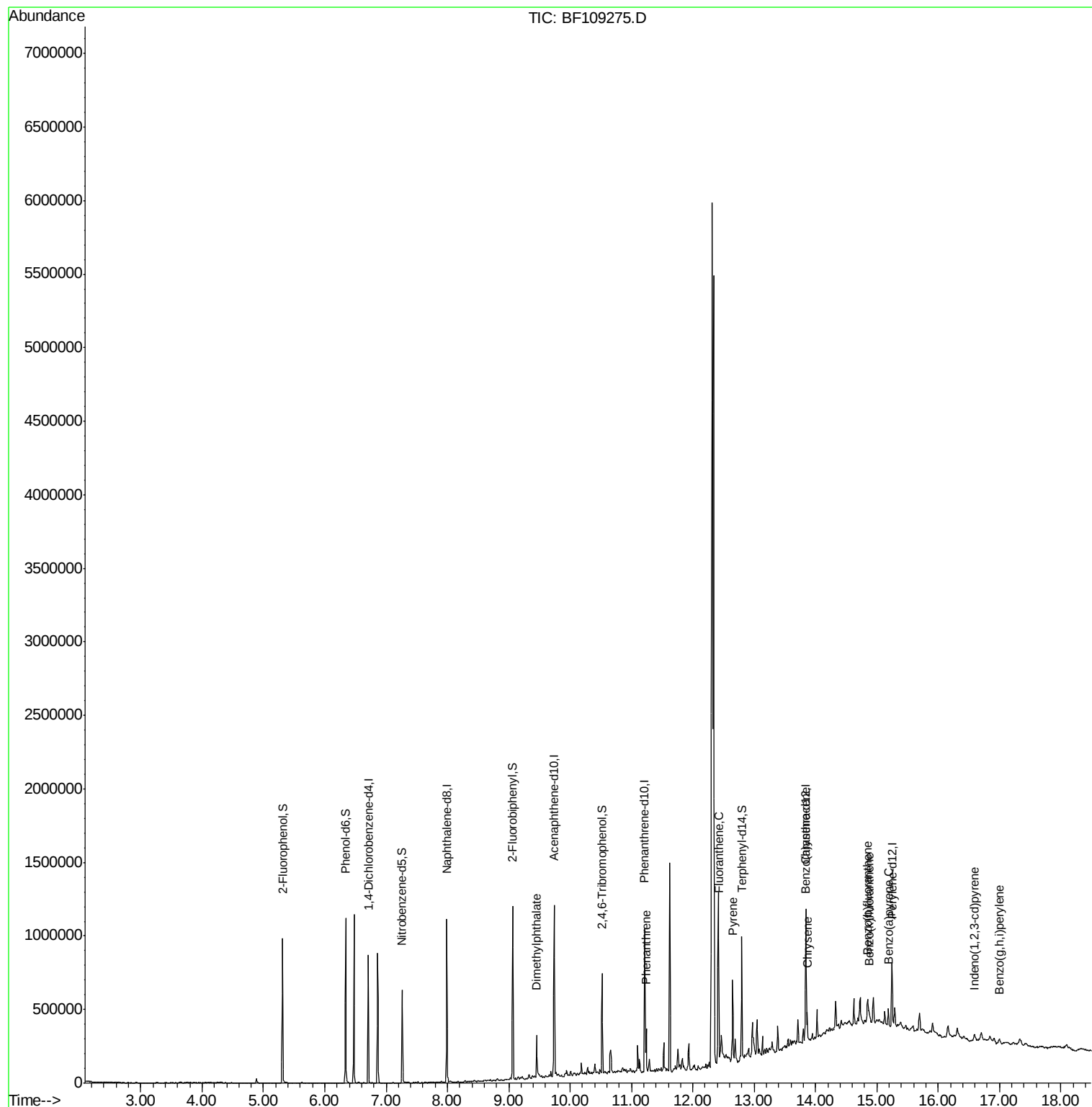
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
Data File : BF109275.D  
Acq On : 24 Sep 2018 18:37  
Operator : JU/SJ  
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Quant Time: Sep 25 05:22:44 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 22 13:32:18 2018  
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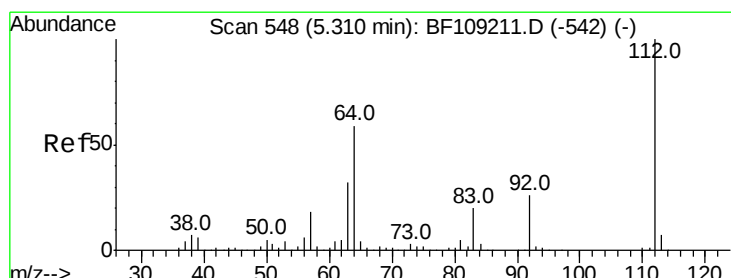
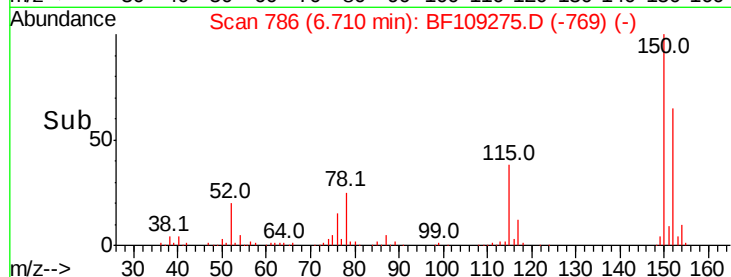
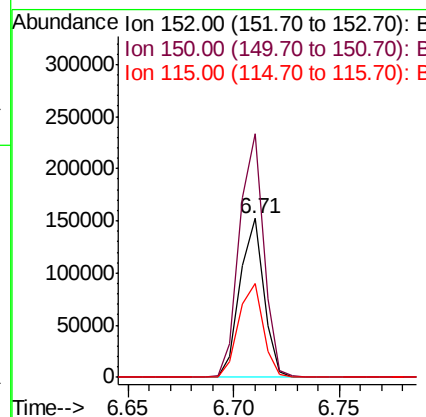
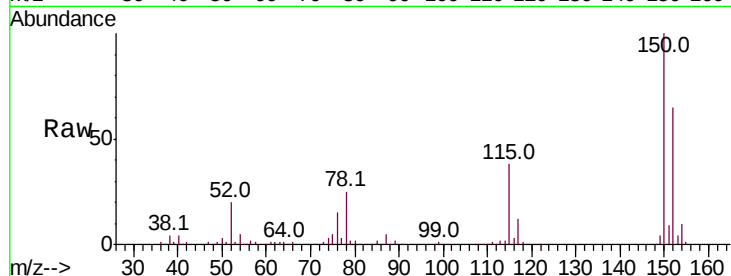
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.71 min Scan# 786  
 Delta R.T. 0.00 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 124.6 | 186.8 |
| 115     | 59.0  | 50.1  | 75.1  |

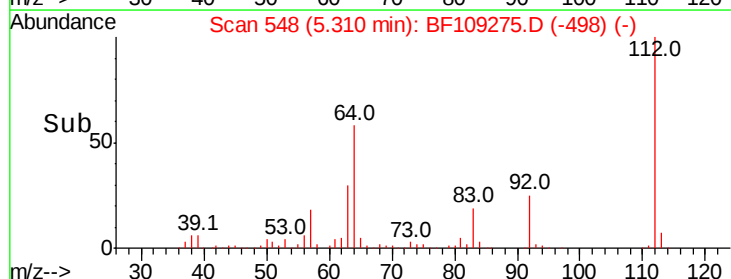
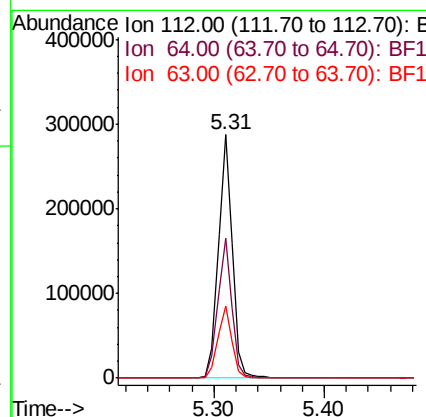
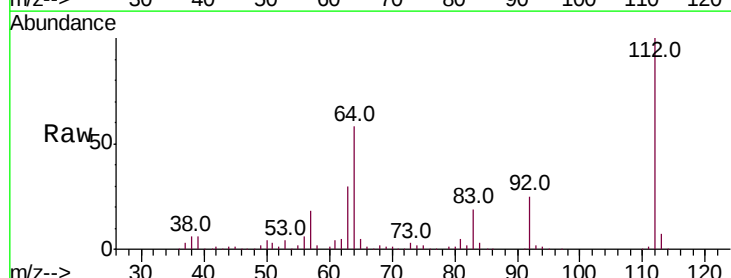
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#5  
 2-Fluorophenol  
 Concen: 34.702 ng  
 RT: 5.31 min Scan# 548  
 Delta R.T. -0.01 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 47.9  | 71.9  |
| 63      | 29.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 34.951 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109275.D

Acq: 24 Sep 2018 18:37

Instrument :

BNA\_F

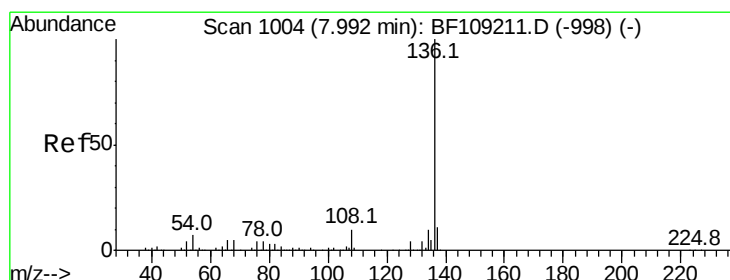
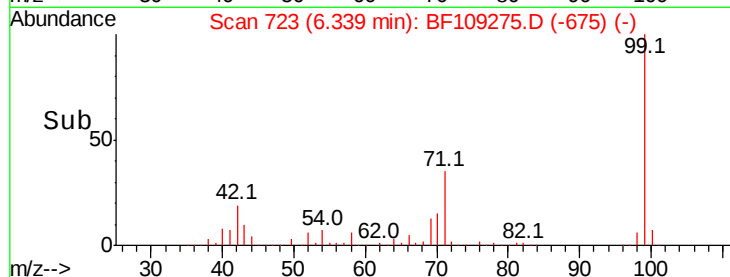
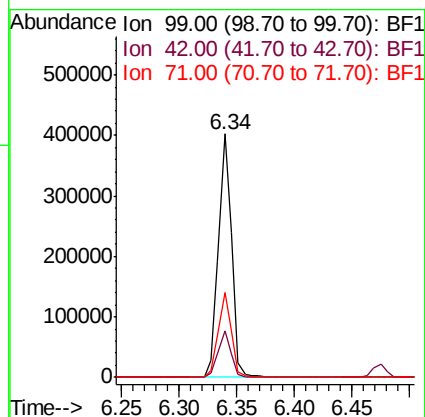
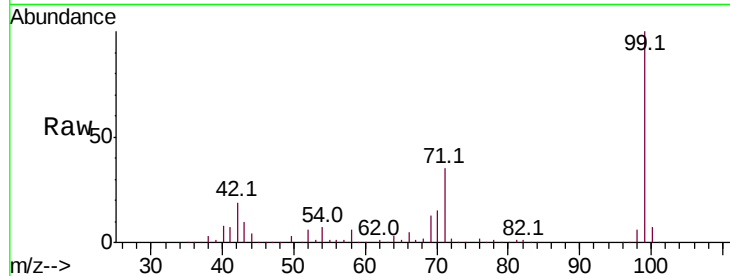
ClientSampleId :

JC-02-092118-G

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 319888 |       |       |
| 42      | 18.9 | 14.5  | 21.7   |       |       |
| 71      | 35.0 | 25.4  | 38.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

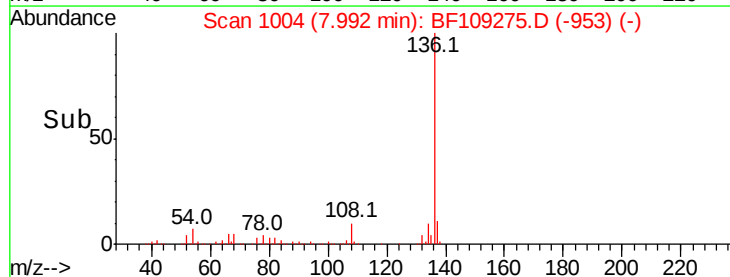
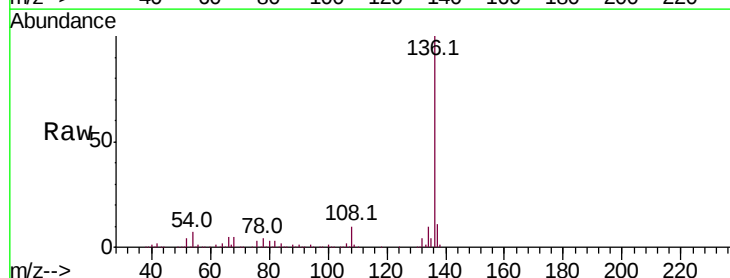
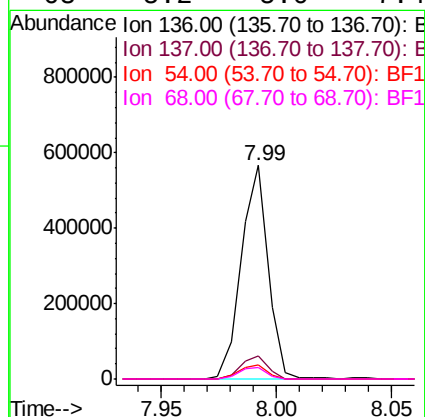
RT: 7.99 min Scan# 1004

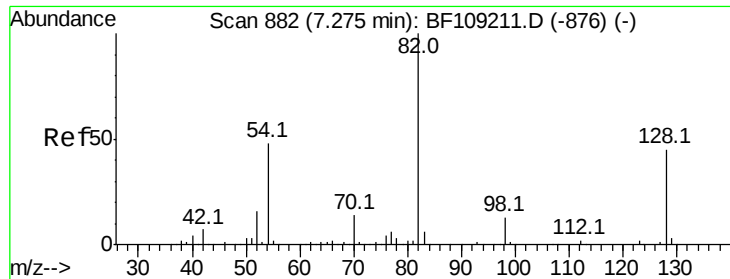
Delta R.T. 0.00 min

Lab File: BF109275.D

Acq: 24 Sep 2018 18:37

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 461271 |       |       |
| 137     | 10.6 | 8.9   | 13.3   |       |       |
| 54      | 6.7  | 6.6   | 9.8    |       |       |
| 68      | 5.2  | 5.0   | 7.4    |       |       |





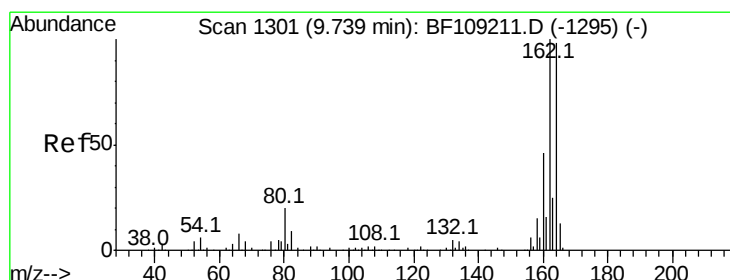
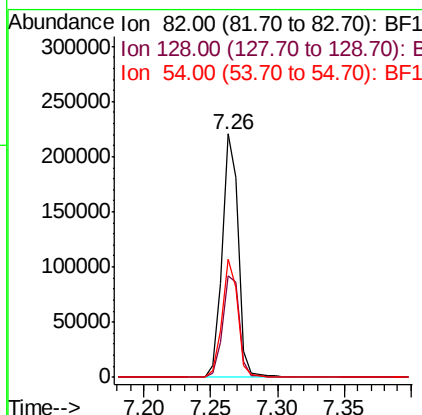
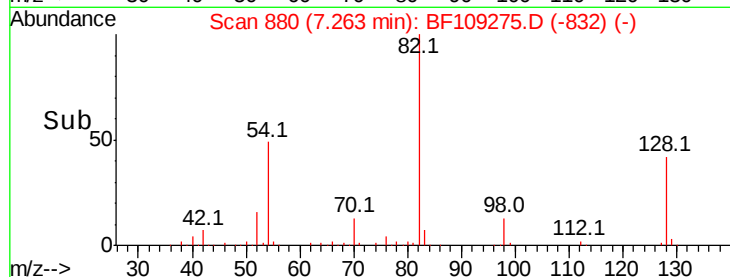
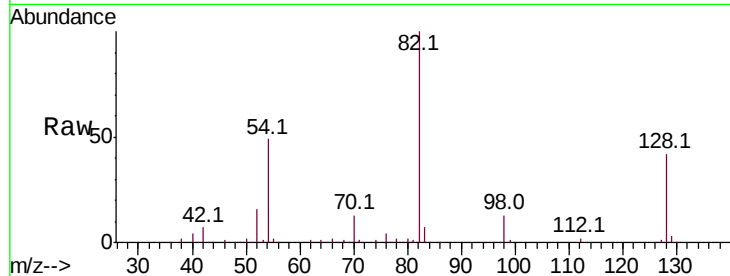
#23  
 Nitrobenzene-d5  
 Concen: 24.187 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.02 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.6  | 36.1  | 54.1  |
| 54      | 48.8  | 41.4  | 62.2  |

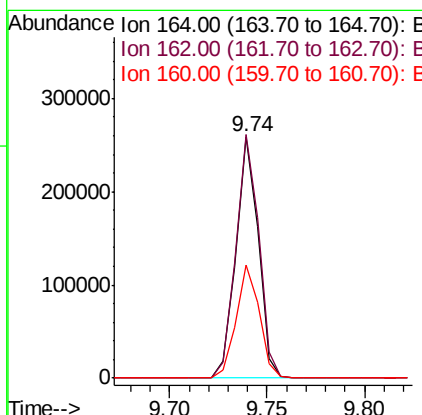
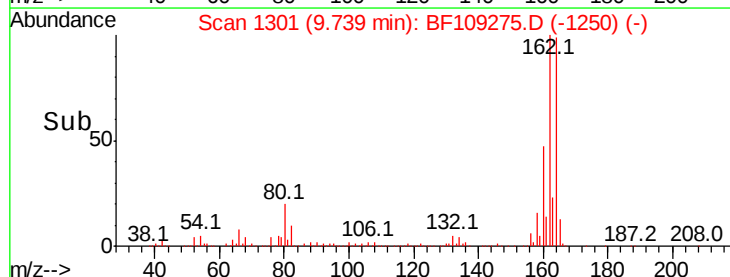
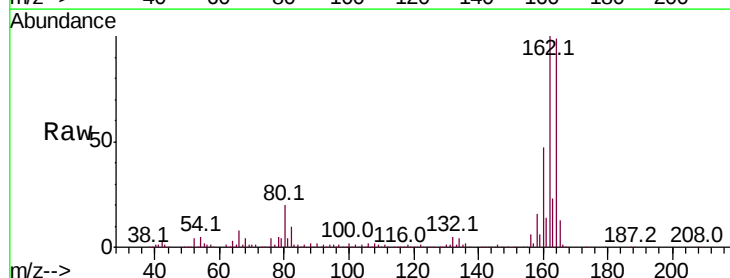
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. 0.00 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.9 | 86.1  | 129.1 |
| 160     | 47.1  | 38.3  | 57.5  |





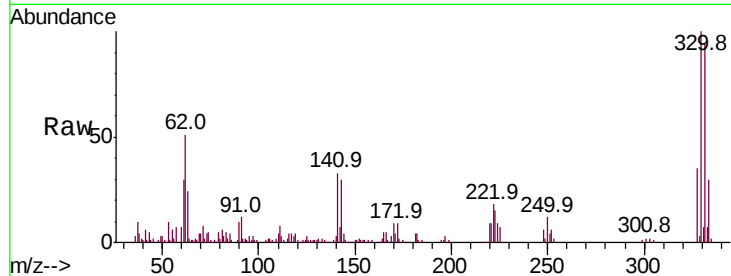
#41  
 2,4,6-Tribromophenol  
 Concen: 34.186 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.2  | 77.0  | 115.6 |
| 141     | 33.5  | 29.9  | 44.9  |

Manual Integrations  
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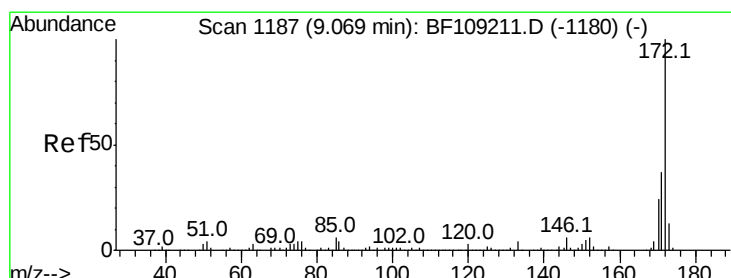
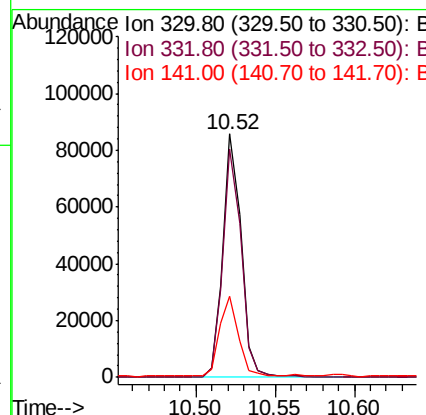
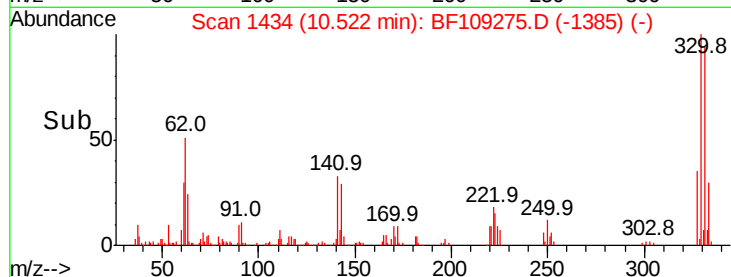


Abundance

Ion 329.80 (329.50 to 330.50): E

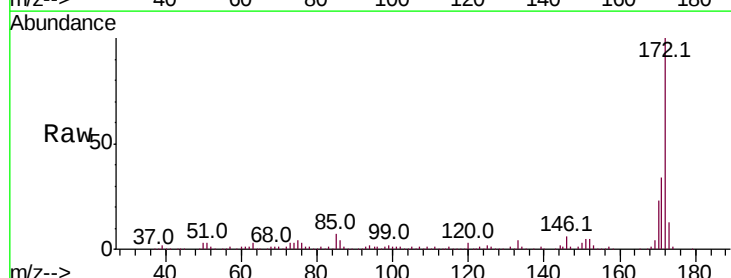
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 24.721 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 29.7  | 44.5  |
| 170     | 23.0  | 19.6  | 29.4  |

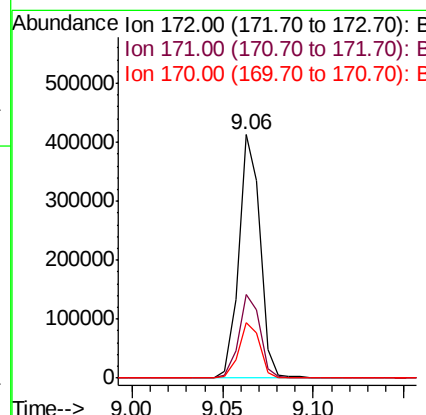
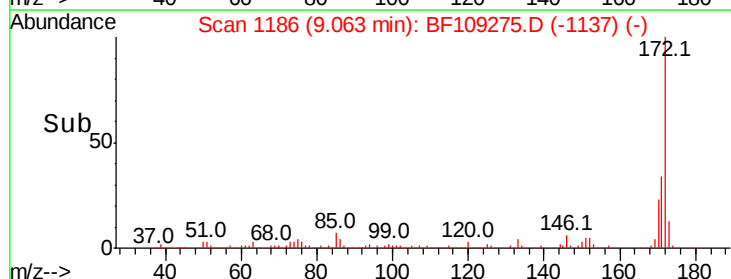


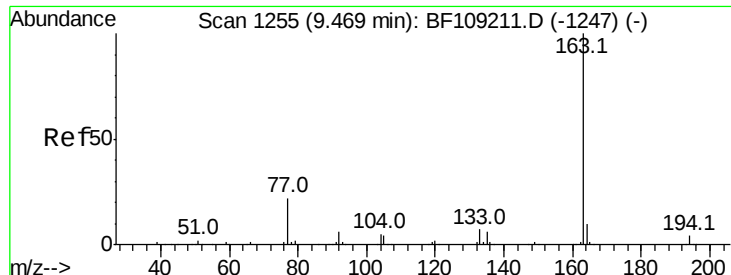
Abundance

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





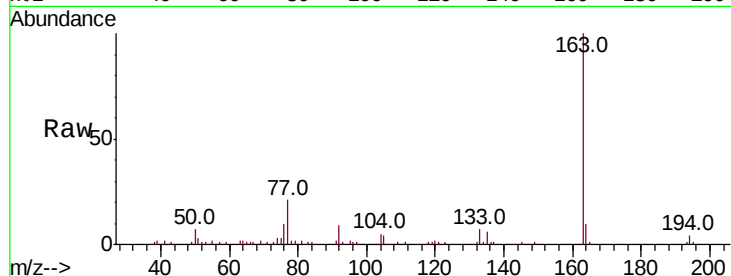
#49  
Dimethylphthalate  
Concen: 6.255 ng  
RT: 9.46 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-G

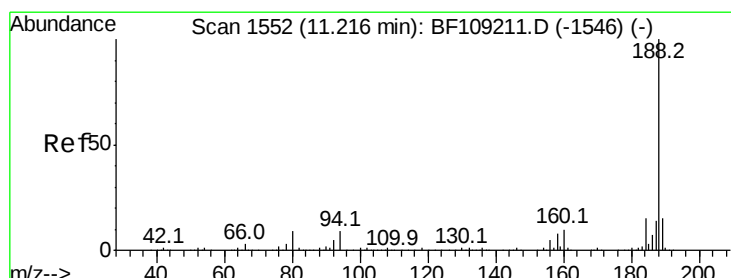
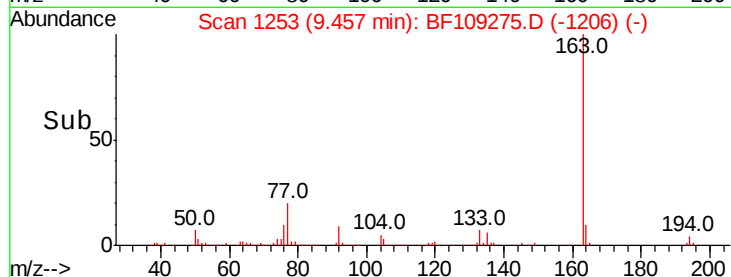
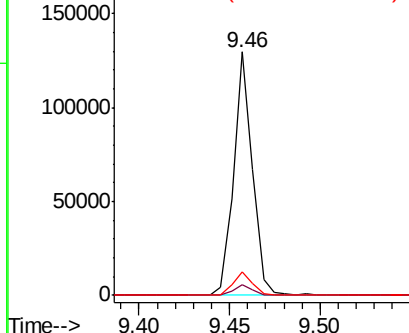
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 93730 |       |       |
| 194     | 4.2   |       | 2.7   | 4.1#  |
| 164     | 9.8   |       | 8.2   | 12.2  |

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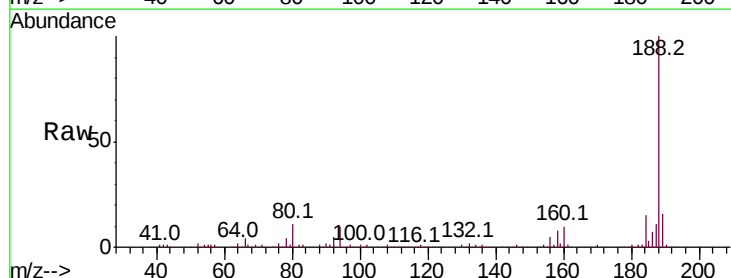


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

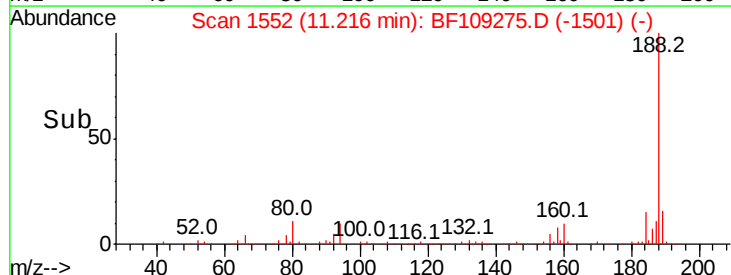
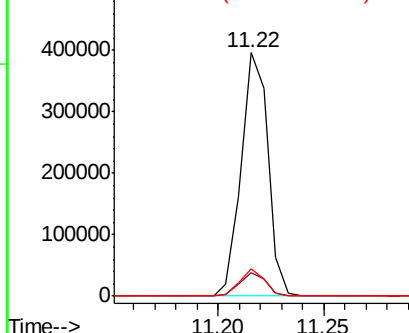


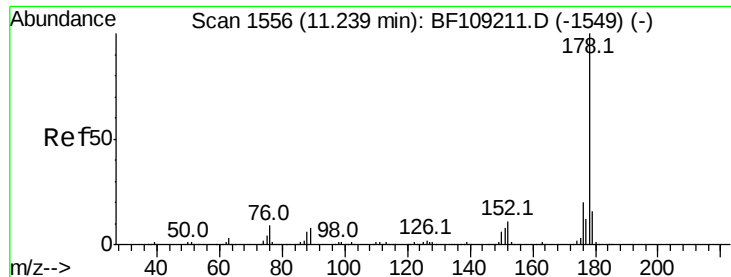
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. 0.00 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 349302 |       |       |
| 94      | 9.8   |        | 8.5   | 12.7  |
| 80      | 11.1  |        | 9.2   | 13.8  |



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





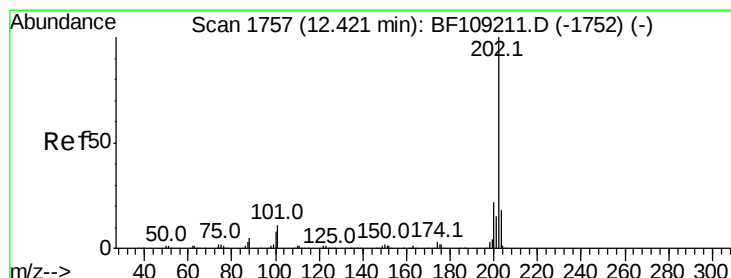
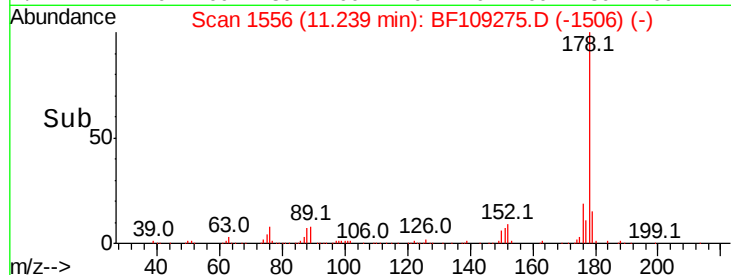
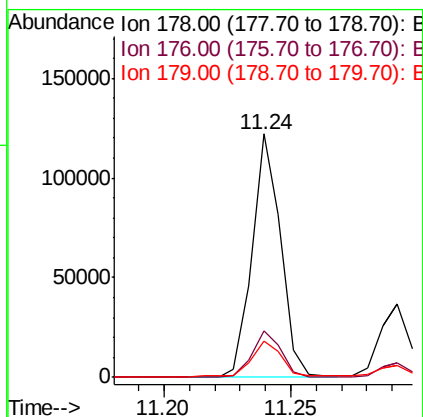
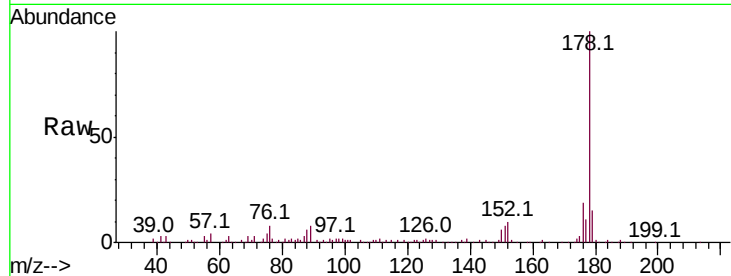
#70  
Phenanthrene  
Concen: 5.491 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.8  | 23.8  |
| 179     | 14.9  | 13.0  | 19.6  |

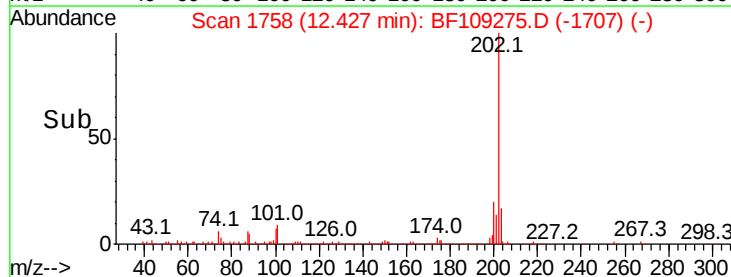
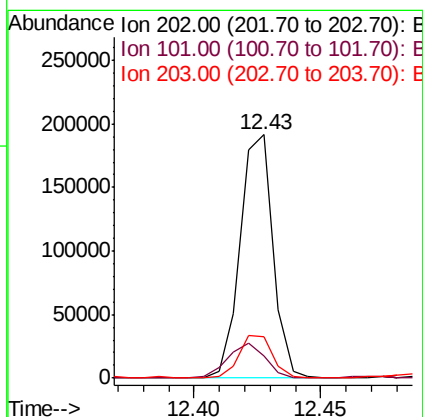
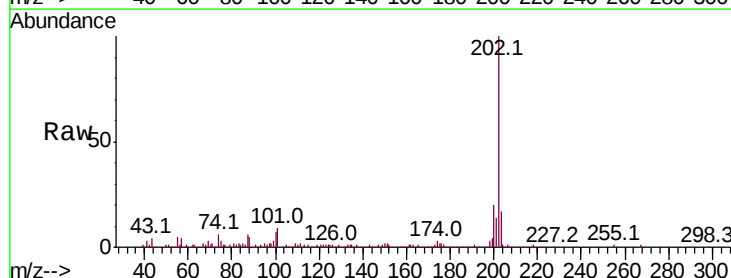
Manual Integrations  
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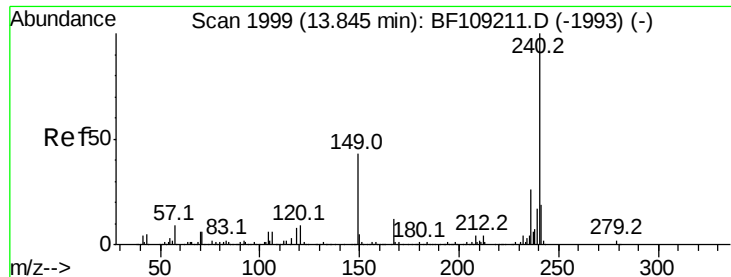
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#74  
Fluoranthene  
Concen: 9.148 ng  
RT: 12.43 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.3   | 0.0   | 34.1  |
| 203     | 16.9  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BF109275.D

Acq: 24 Sep 2018 18:37

Instrument :

BNA\_F

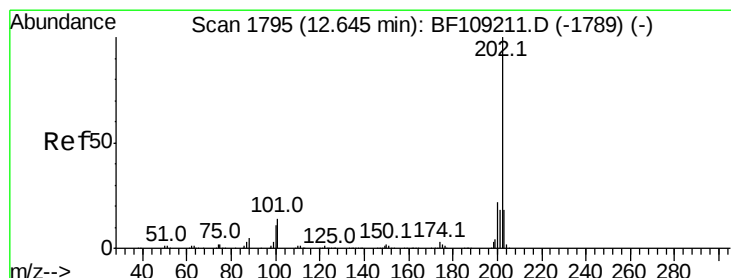
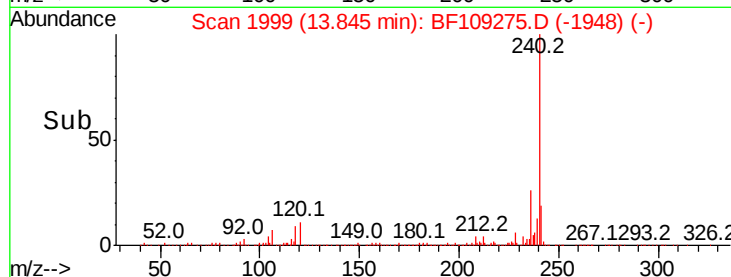
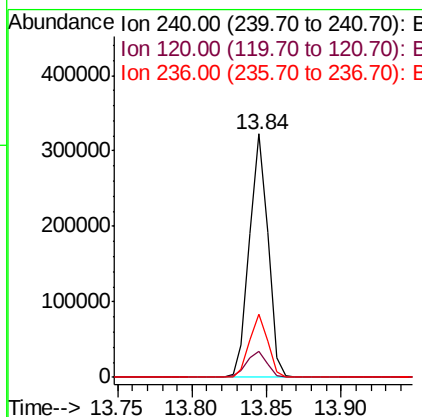
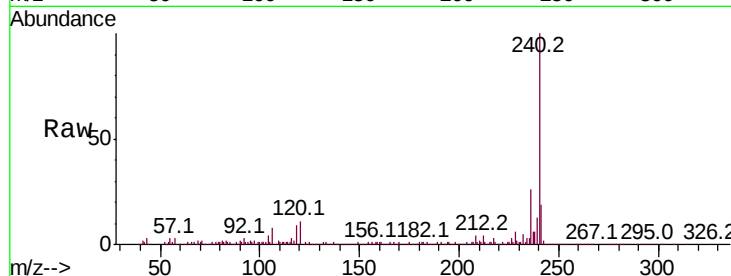
ClientSampleId :

JC-02-092118-G

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 275334 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.9  | 9.5   | 14.3   |
| 236       | 25.9  | 20.7  | 31.1   |

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#77

Pyrene

Concen: 8.419 ng

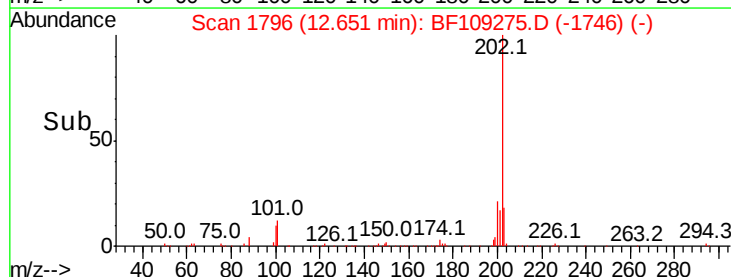
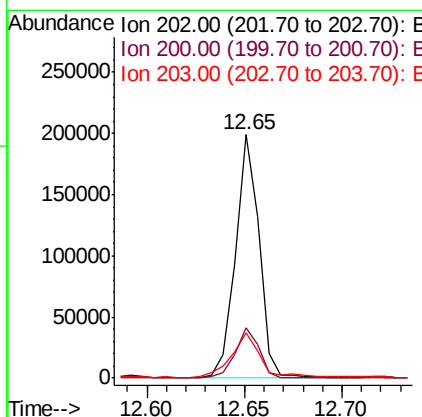
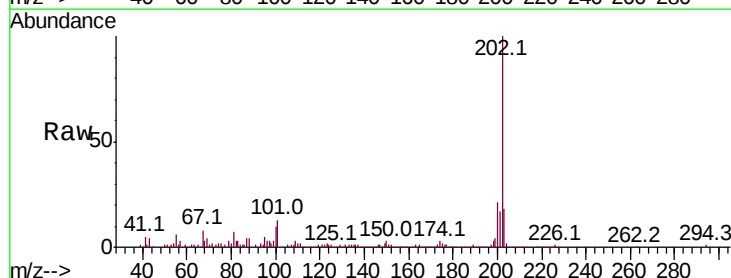
RT: 12.65 min Scan# 1796

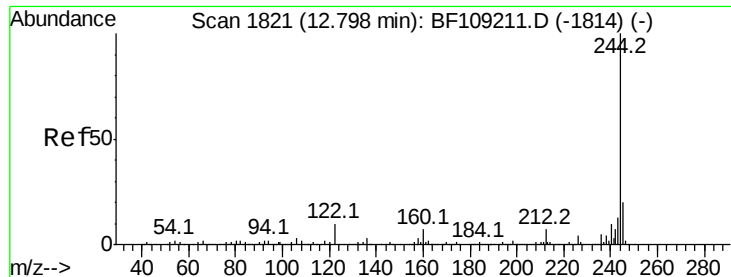
Delta R.T. -0.01 min

Lab File: BF109275.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 166124 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.7  | 17.4  | 26.2   |
| 203       | 18.4  | 14.3  | 21.5   |





#78

Terphenyl-d14

Concen: 23.046 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF109275.D

Acq: 24 Sep 2018 18:37

Instrument :

BNA\_F

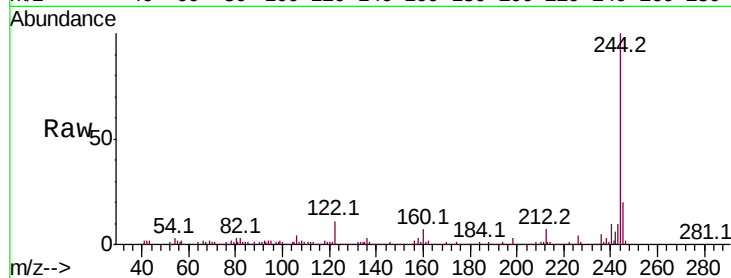
ClientSampleId :

JC-02-092118-G

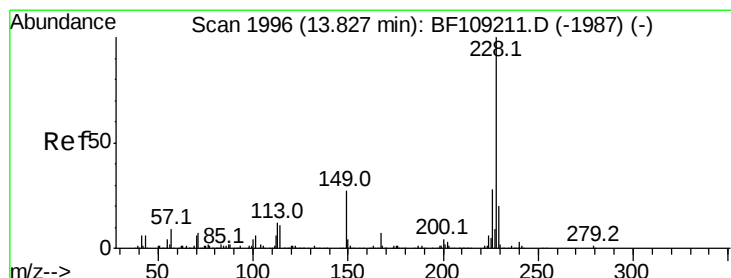
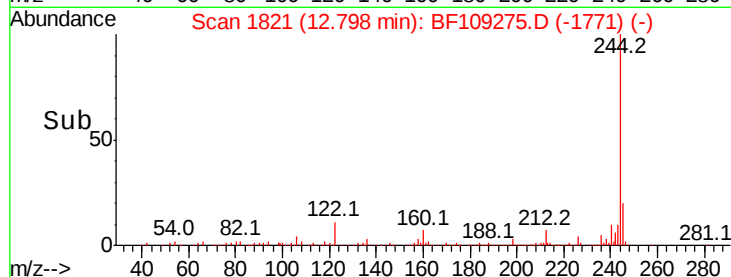
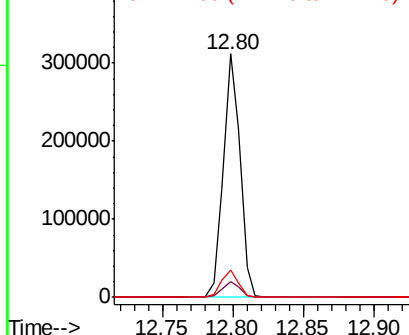
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 258556 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.6   | 5.4   | 8.0    |
| 122       | 11.2  | 11.0  | 16.4   |

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Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 5.001 ng

RT: 13.83 min Scan# 1997

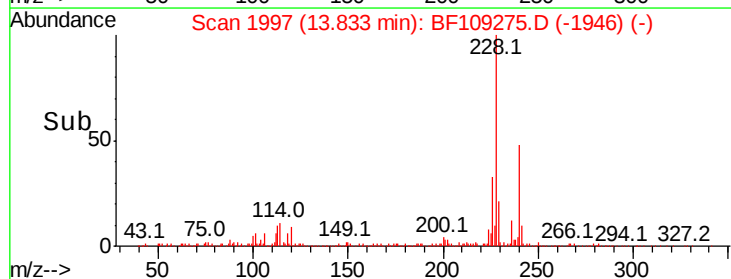
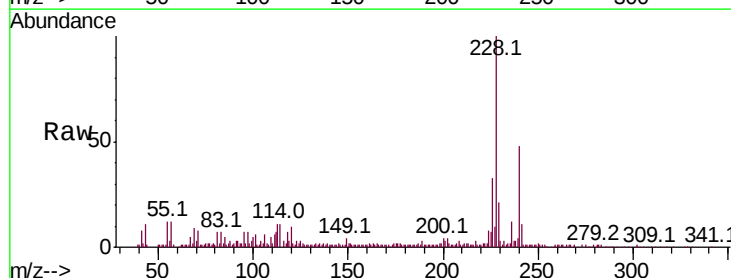
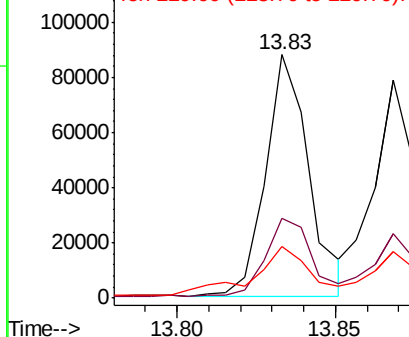
Delta R.T. 0.00 min

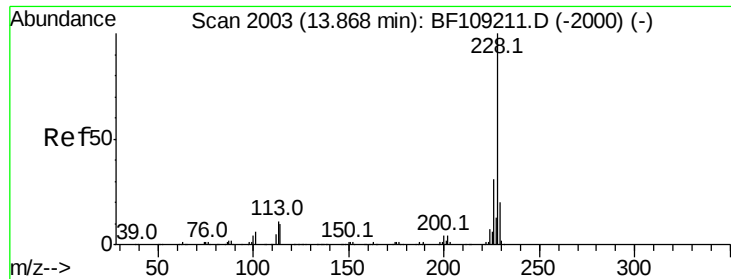
Lab File: BF109275.D

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 82930 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 33.0  | 22.6  | 33.8  |
| 229       | 21.2  | 15.8  | 23.6  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





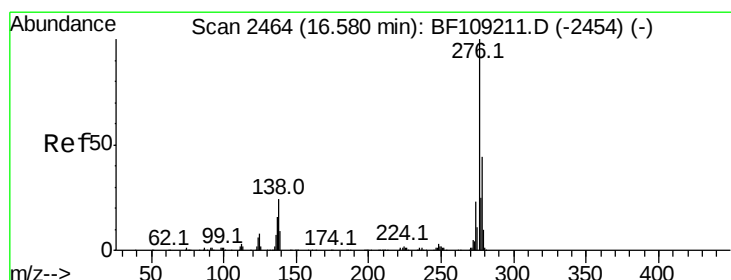
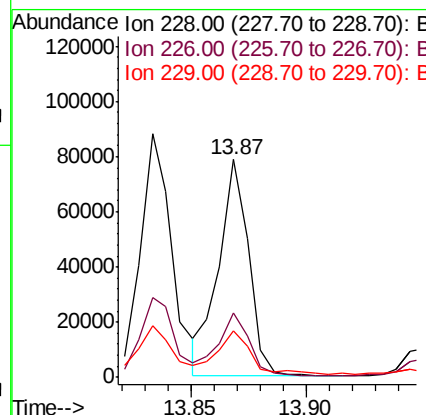
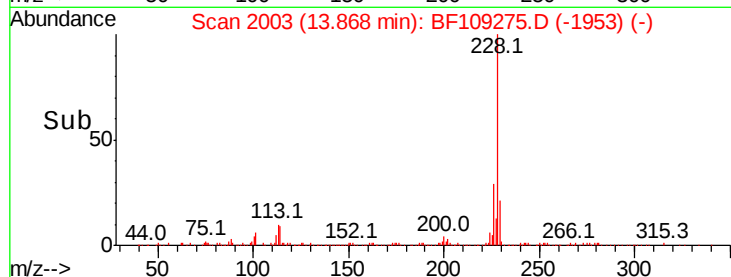
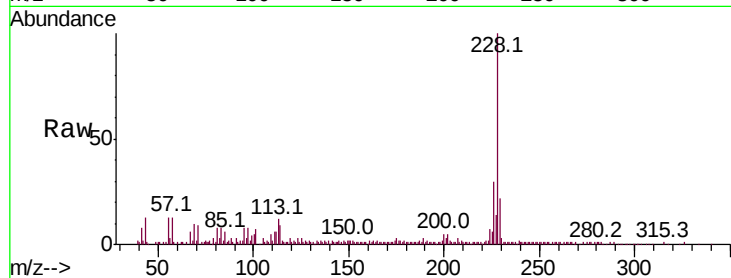
#82  
Chrysene  
Concen: 4.303 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.01 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 25.0  | 37.6  |
| 229     | 21.6  | 16.2  | 24.4  |

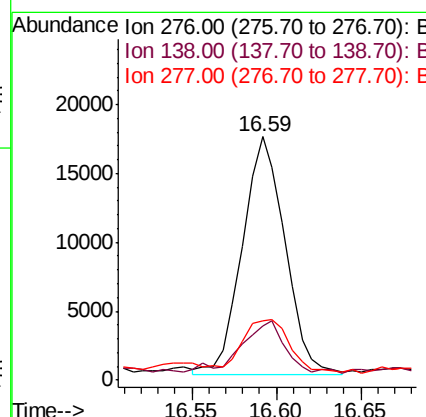
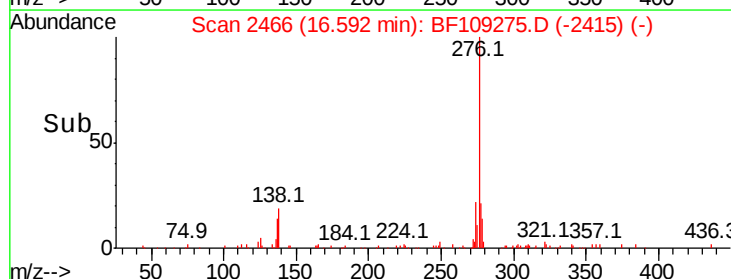
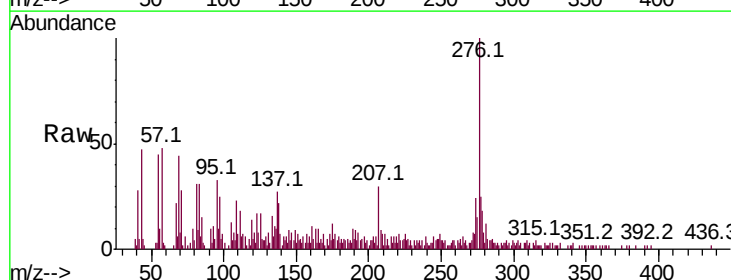
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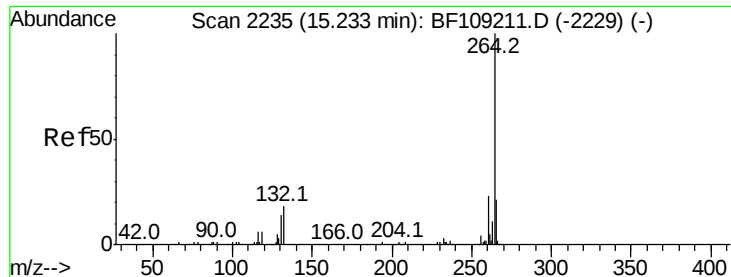
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#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.271 ng  
RT: 16.59 min Scan# 2466  
Delta R.T. 0.00 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.4  | 25.0  | 37.6# |
| 277     | 25.5  | 20.1  | 30.1  |





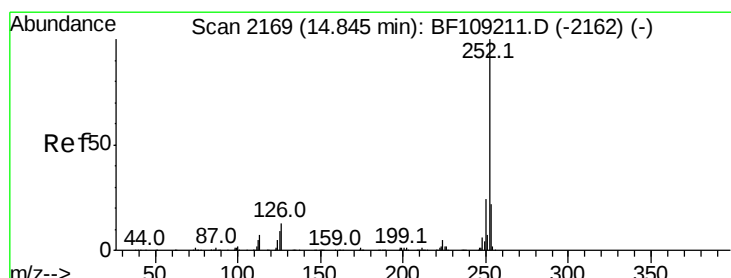
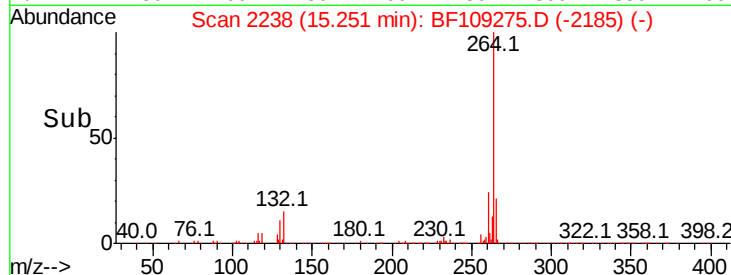
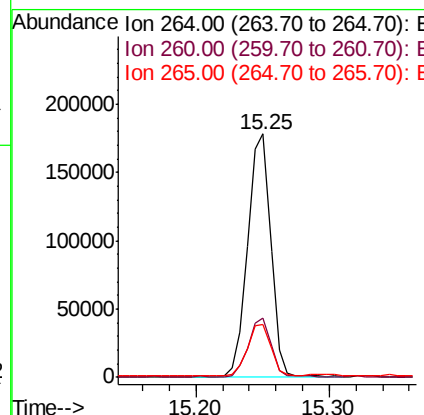
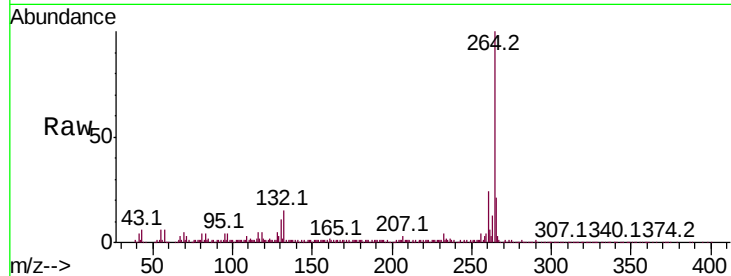
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.25 min Scan# 2238  
Delta R.T. 0.01 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.5  | 17.5  | 26.3  |

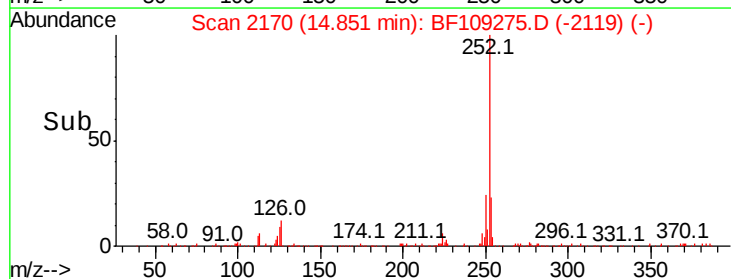
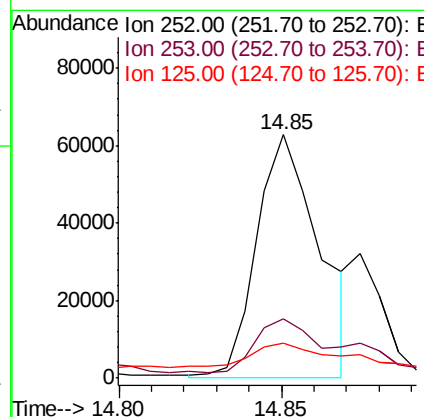
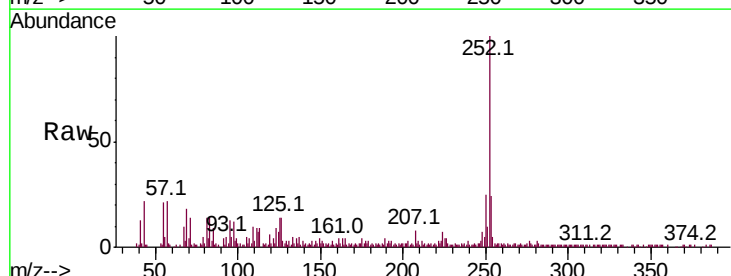
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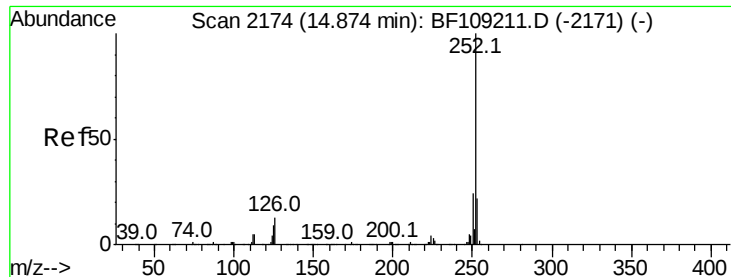
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#87  
Benzo(b)fluoranthene  
Concen: 7.269 ng m  
RT: 14.85 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.0  | 25.6  |
| 125     | 14.3  | 9.0   | 13.6  |





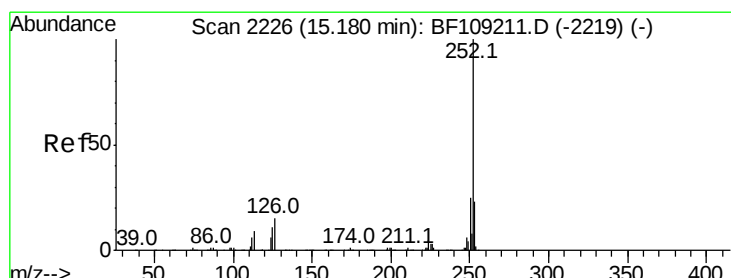
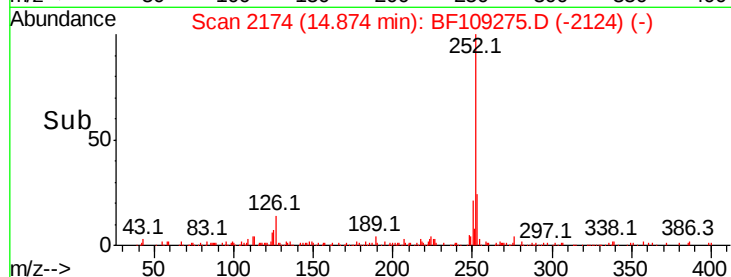
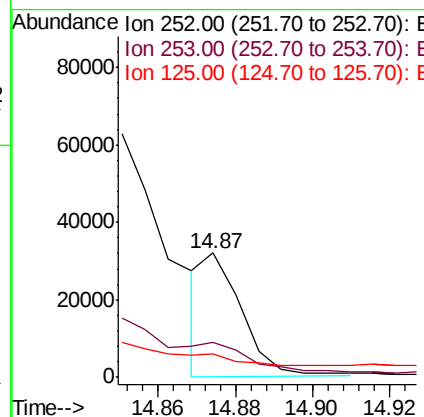
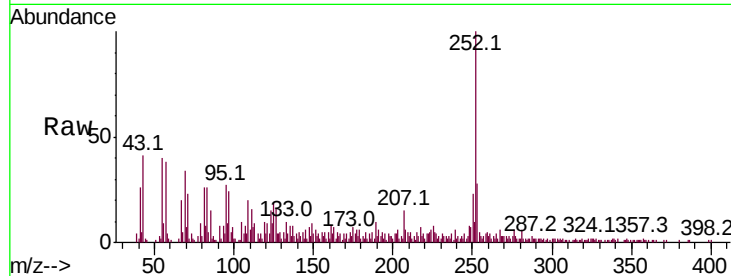
#88  
Benzo(k)fluoranthene  
Concen: 2.049 ng m  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.01 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.1  | 17.9  | 26.9# |
| 125     | 19.2  | 10.2  | 15.2# |

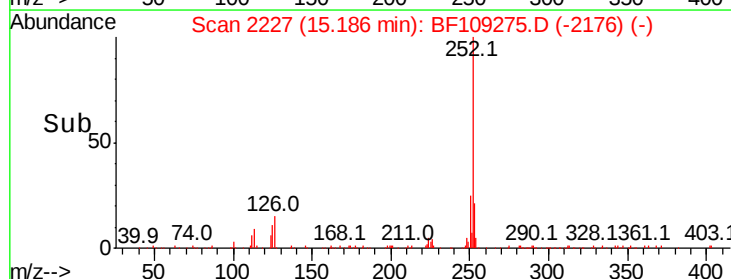
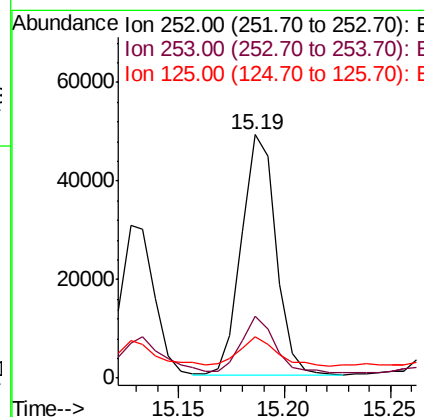
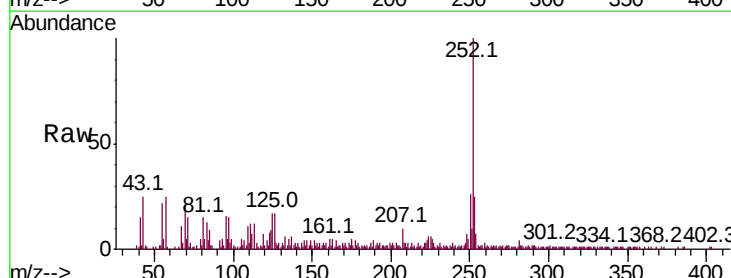
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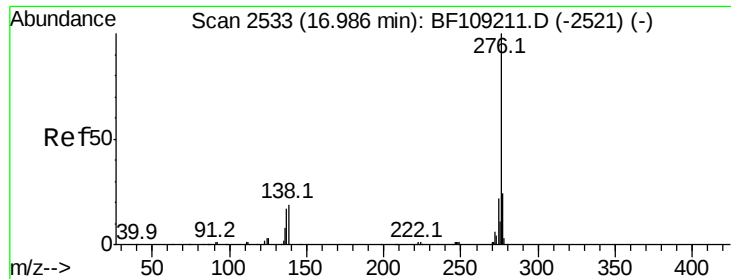
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#89  
Benzo(a)pyrene  
Concen: 5.245 ng  
RT: 15.19 min Scan# 2227  
Delta R.T. 0.00 min  
Lab File: BF109275.D  
Acq: 24 Sep 2018 18:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.1  | 25.7  |
| 125     | 17.1  | 9.8   | 14.6# |





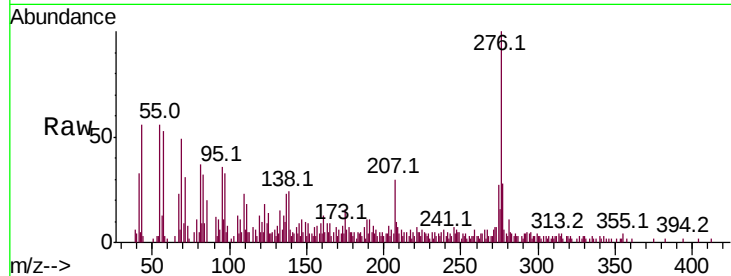
#91  
 Benzo(a,h,i)perylene  
 Concen: 3.176 ng  
 RT: 17.00 min Scan# 2535  
 Delta R.T. 0.00 min  
 Lab File: BF109275.D  
 Acq: 24 Sep 2018 18:37

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-092118-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.2  | 17.9  | 26.9# |
| 138     | 23.5  | 21.8  | 32.8  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

