

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
 Data File : BF112543.D  
 Acq On : 13 Feb 2019 17:13  
 Operator : JU/SJ  
 Sample : K1343-29 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-021119-O

Manual Integrations  
 APPROVED

Sohil  
 2/14/2019 11:36:21 AM

Quant Time: Feb 14 07:46:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 110579   | 20.00  | ng    | -0.01          |
| 21) Naphthalene-d8          | 8.12  | 136  | 416673   | 20.00  | ng    | -0.01          |
| 39) Acenaphthene-d10        | 9.87  | 164  | 171533   | 20.00  | ng    | -0.01          |
| 64) Phenanthrene-d10        | 11.36 | 188  | 269091   | 20.00  | ng    | 0.00           |
| 76) Chrysene-d12            | 14.02 | 240  | 238427   | 20.00  | ng    | 0.00           |
| 87) Perylene-d12            | 15.50 | 264  | 164004   | 20.00  | ng    | 0.02           |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 5.47  | 112  | 259153   | 49.78  | ng    | -0.01          |
| 7) Phenol-d6                | 6.49  | 99   | 338814   | 46.84  | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 200388   | 27.71  | ng    | -0.01          |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 69671    | 34.89  | ng    | -0.01          |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 382552   | 31.54  | ng    | -0.01          |
| 79) Terphenyl-d14           | 12.94 | 244  | 321531   | 25.40  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 50) Dimethylphthalate       | 9.59  | 163  | 31913    | 2.395  | ng    | Qvalue<br># 98 |
| 71) Phenanthrene            | 11.39 | 178  | 212106   | 15.162 | ng    | 98             |
| 72) Anthracene              | 11.44 | 178  | 54391    | 3.903  | ng    | 97             |
| 75) Fluoranthene            | 12.59 | 202  | 232196   | 15.475 | ng    | 98             |
| 78) Pyrene                  | 12.82 | 202  | 209216   | 12.674 | ng    | 97             |
| 81) Benzo(a)anthracene      | 14.00 | 228  | 98381    | 7.019  | ng    | 97             |
| 83) Chrysene                | 14.04 | 228  | 80660    | 6.029  | ng    | 98             |
| 86) Indeno(1,2,3-cd)pyrene  | 17.01 | 276  | 28732    | 2.710  | ng    | 95             |
| 88) Benzo(b)fluoranthene    | 15.07 | 252  | 79816m   | 8.138  | ng    |                |
| 89) Benzo(k)fluoranthene    | 15.09 | 252  | 23490m   | 2.500  | ng    |                |
| 90) Benzo(a)pyrene          | 15.44 | 252  | 53493    | 6.061  | ng    | # 89           |
| 92) Benzo(a,h,i)perylene    | 17.46 | 276  | 29103    | 4.337  | ng    | 95             |

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

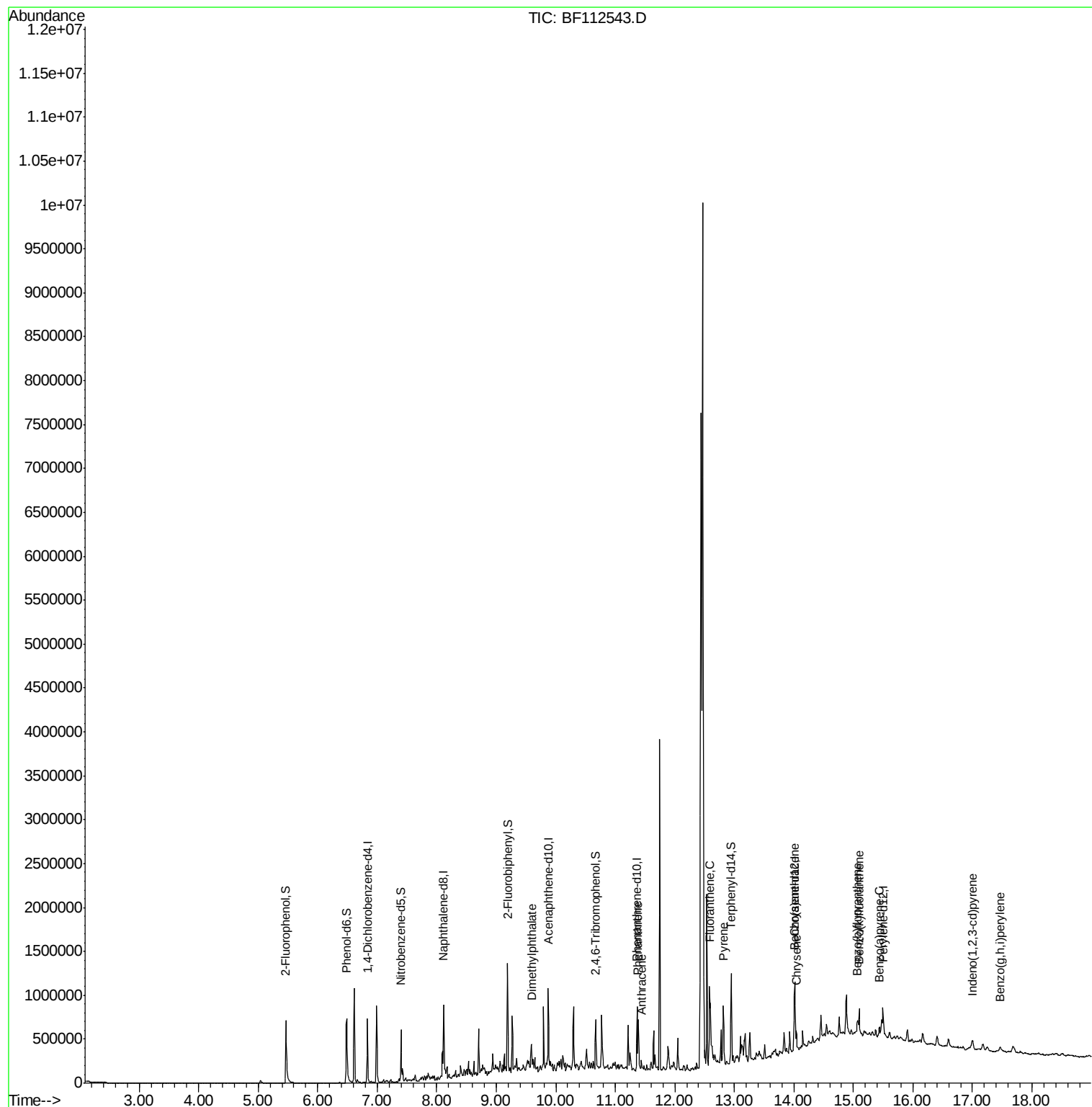
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021319\  
Data File : BF112543.D  
Acq On : 13 Feb 2019 17:13  
Operator : JU/SJ  
Sample : K1343-29 2X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 28 10:38:18 2019  
Response via : Initial Calibration





#1

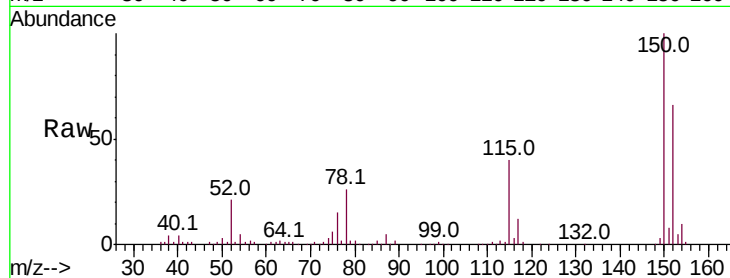
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.6 | 127.4 | 191.0 |
| 115     | 60.8  | 45.5  | 68.3  |

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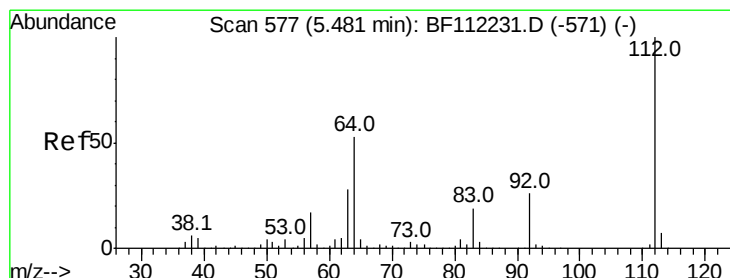
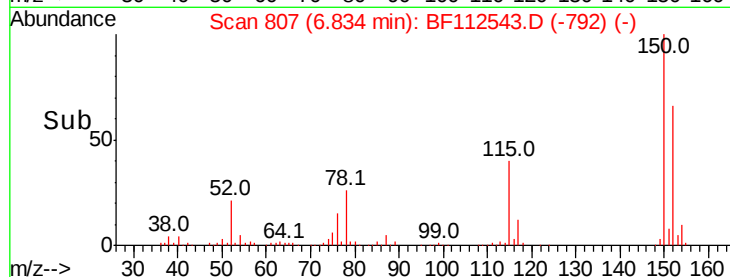
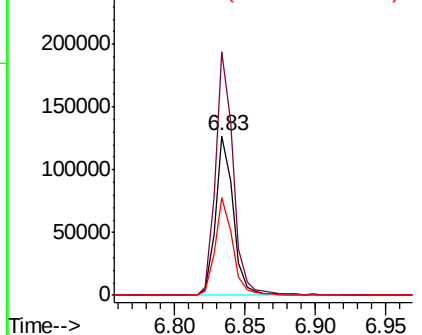


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

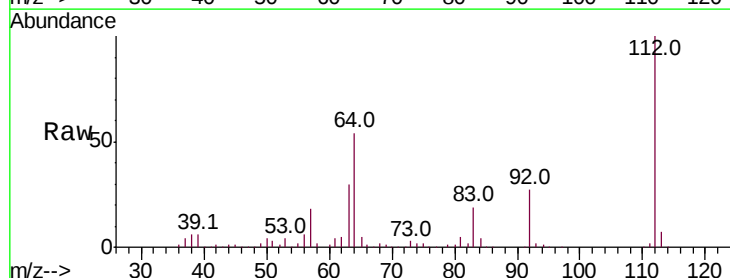
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 49.780 ng  
RT: 5.47 min Scan# 575  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.5  | 45.7  | 68.5  |
| 63      | 30.1  | 23.6  | 35.4  |

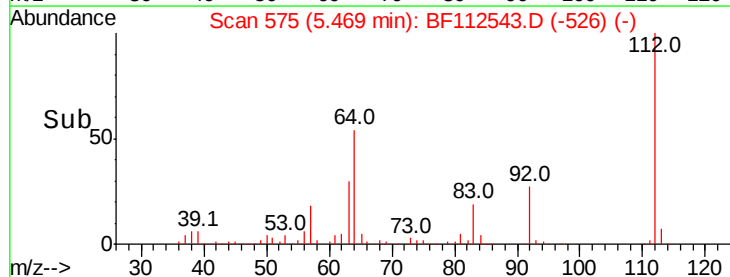
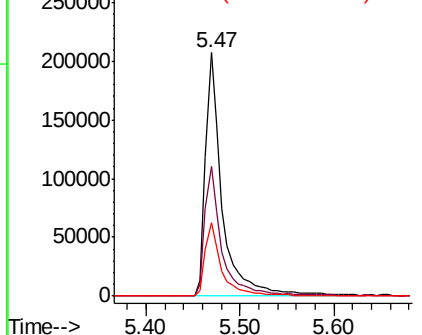


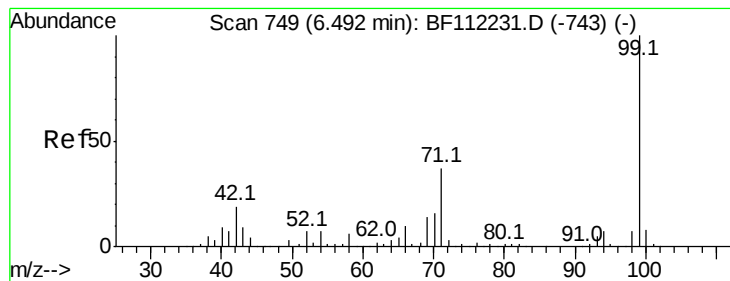
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 46.836 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

Instrument :

BNA\_F

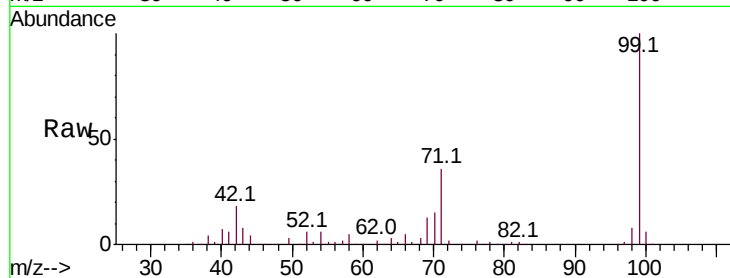
ClientSampleId :

JC-02-021119-O

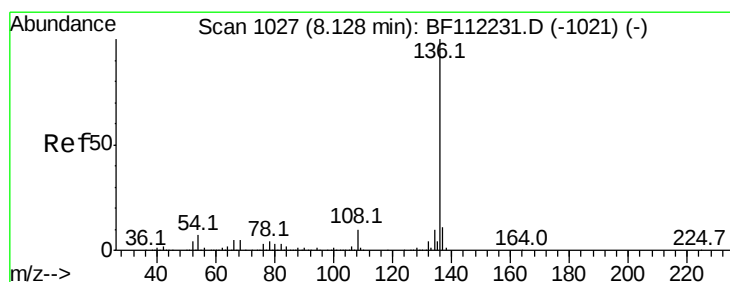
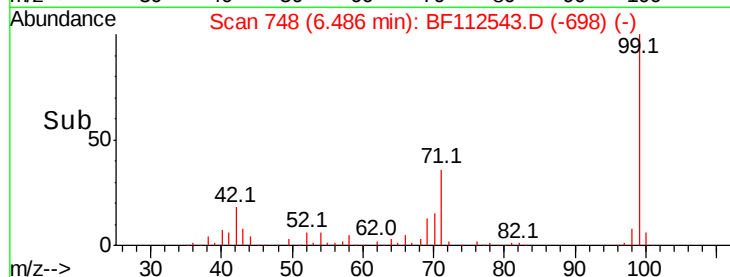
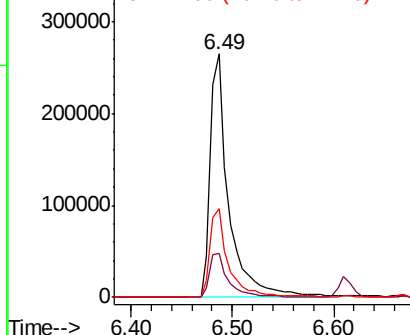
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 338814 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.9  | 15.1  | 22.7   |
| 71        | 36.4  | 26.9  | 40.3   |

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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

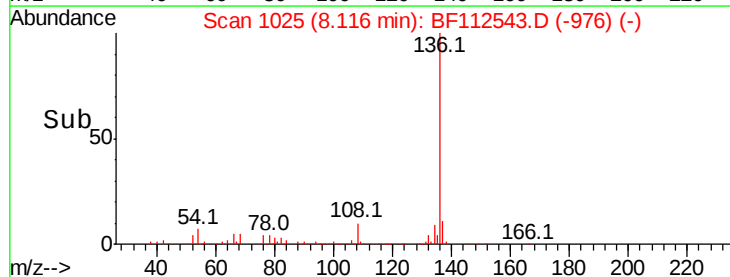
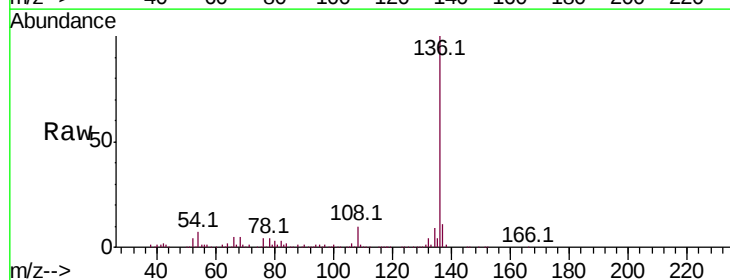
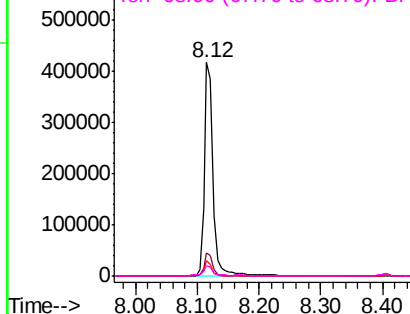
Delta R.T. -0.01 min

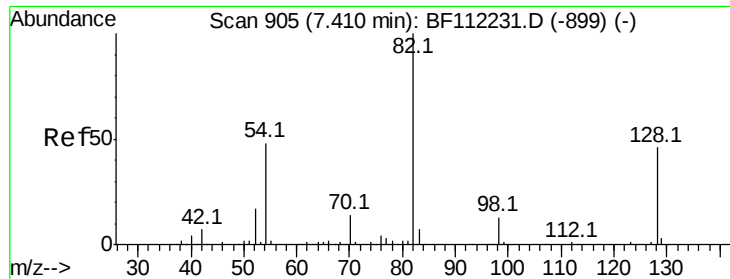
Lab File: BF112543.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 416673 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 9.1   | 13.7   |
| 54        | 7.0   | 5.9   | 8.9    |
| 68        | 4.9   | 5.1   | 7.7#   |

Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1





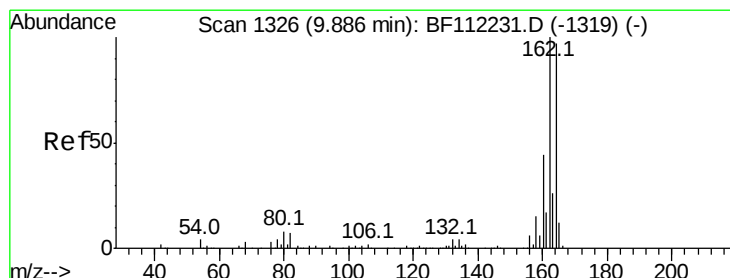
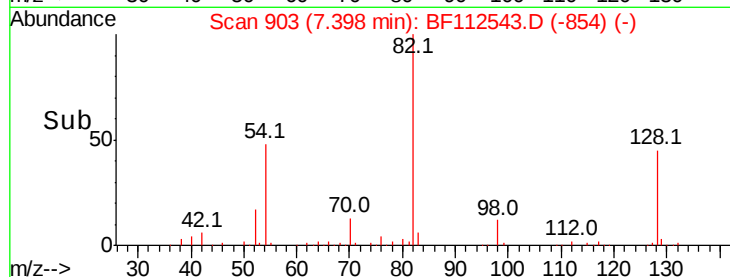
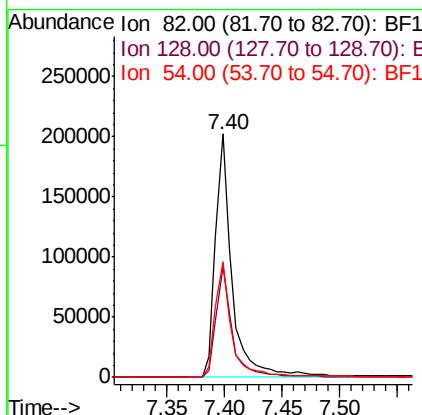
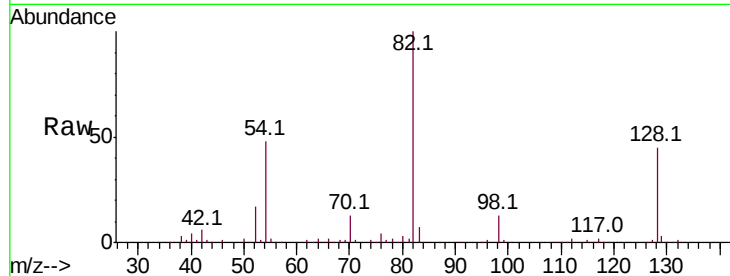
#23  
Nitrobenzene-d5  
Concen: 27.711 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.4  | 37.8  | 56.8  |
| 54      | 47.5  | 39.7  | 59.5  |

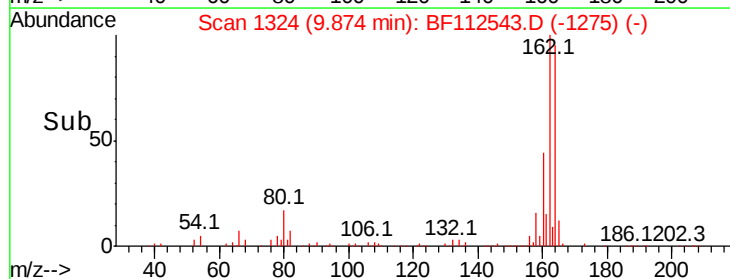
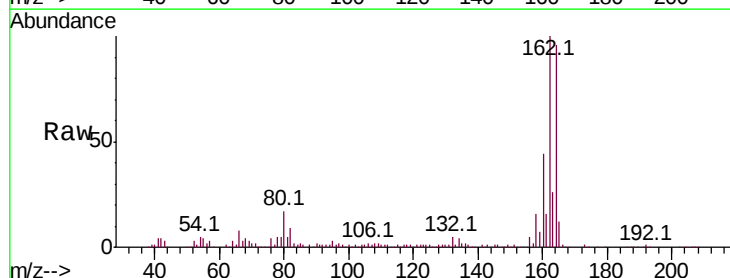
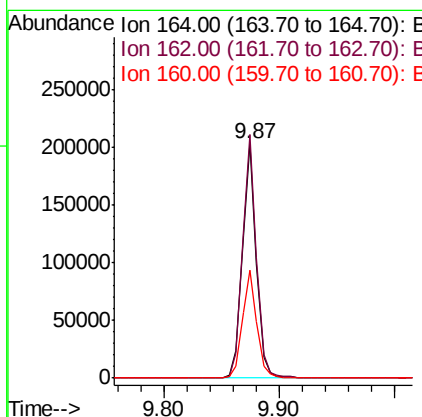
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.8 | 82.2  | 123.4 |
| 160     | 45.8  | 36.2  | 54.4  |





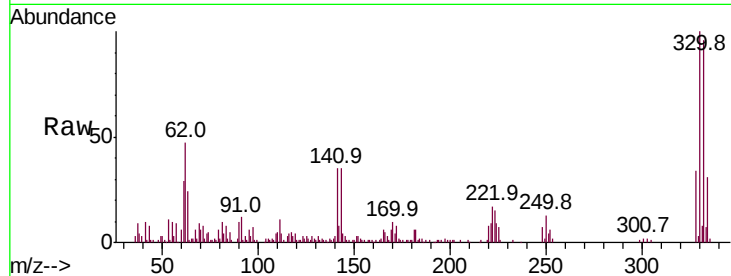
#42  
 2,4,6-Tribromophenol  
 Concen: 34.895 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.01 min  
 Lab File: BF112543.D  
 Acq: 13 Feb 2019 17:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-02-021119-O

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 69671 |       |       |
| 332     | 95.7  | 76.6  | 114.8 |       |
| 141     | 38.8  | 24.3  | 36.5# |       |

Manual Integrations  
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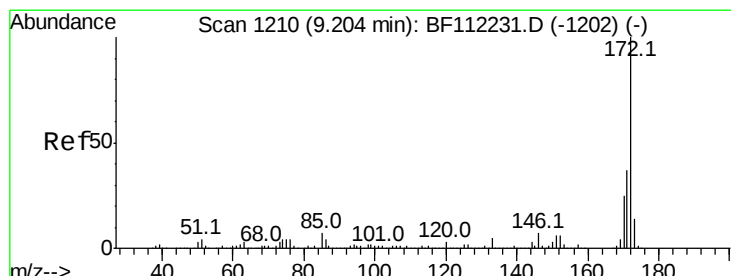
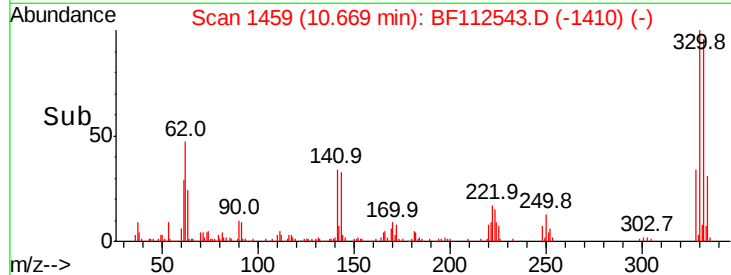
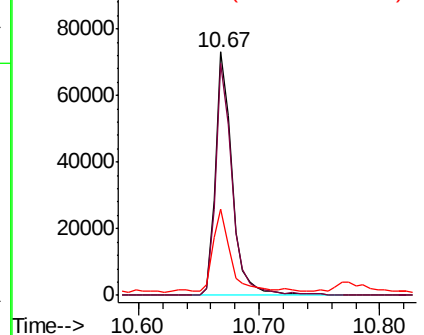


Abundance

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



#45  
 2-Fluorobiphenyl  
 Concen: 31.542 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: BF112543.D  
 Acq: 13 Feb 2019 17:13

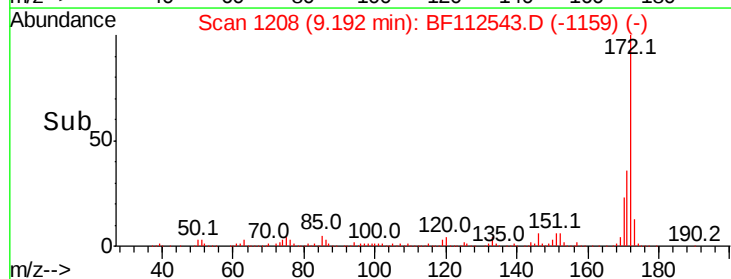
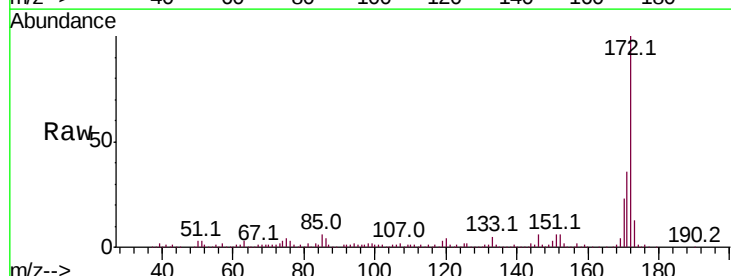
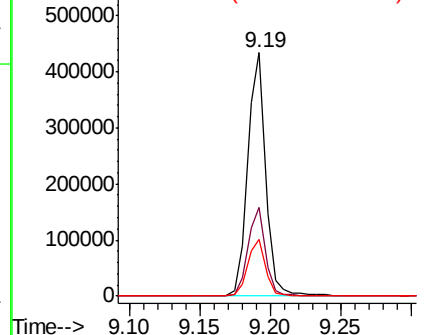
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 382552 |       |       |
| 171     | 36.4  | 30.5   | 45.7  |       |
| 170     | 23.2  | 20.2   | 30.4  |       |

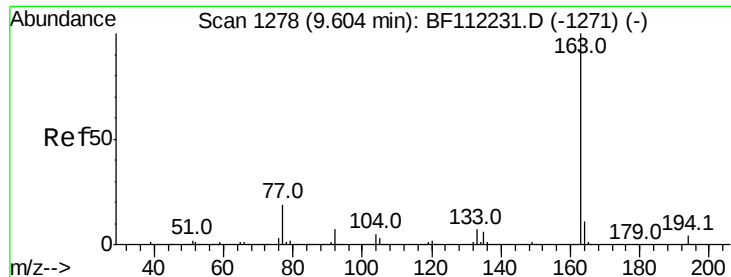
Abundance

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





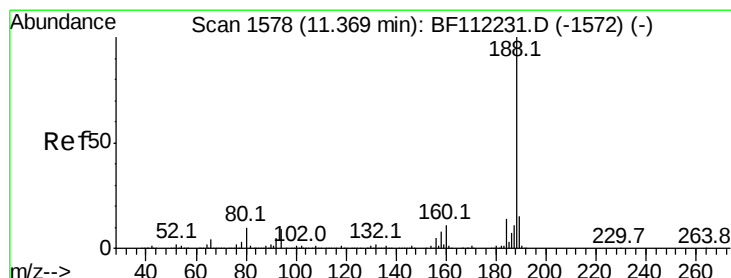
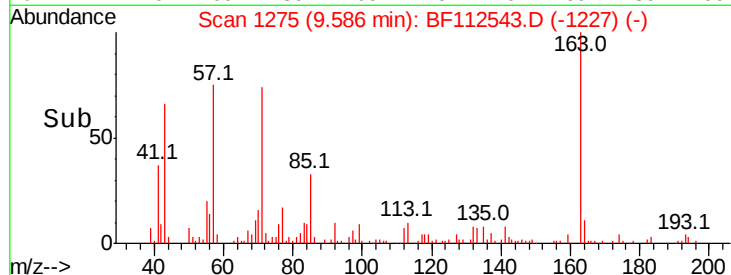
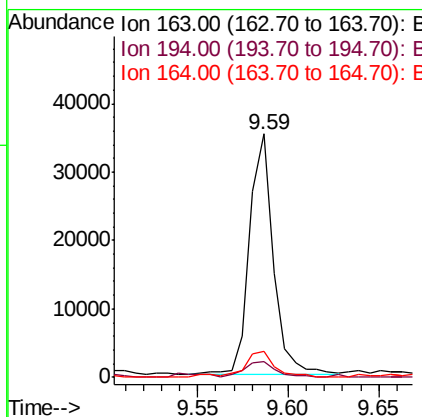
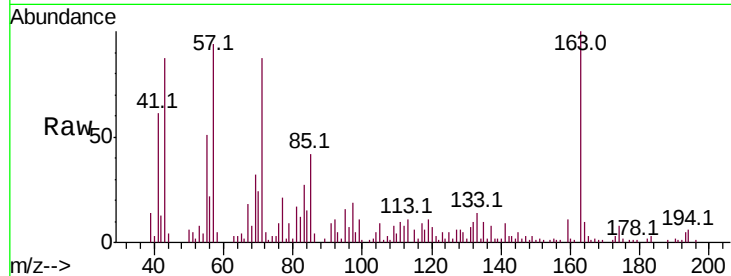
#50  
Dimethylphthalate  
Concen: 2.395 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 6.4   | 3.3  | 4.9#  |       |
| 164     | 10.5  | 8.5  | 12.7  |       |

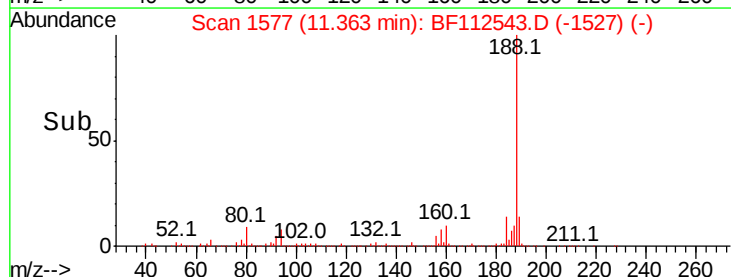
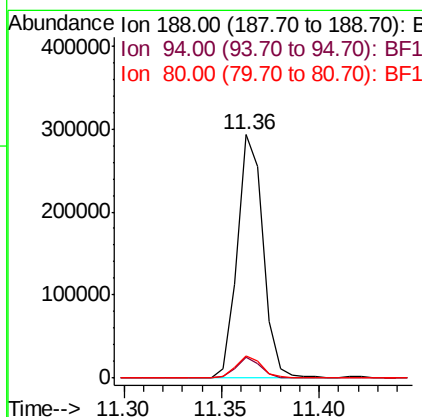
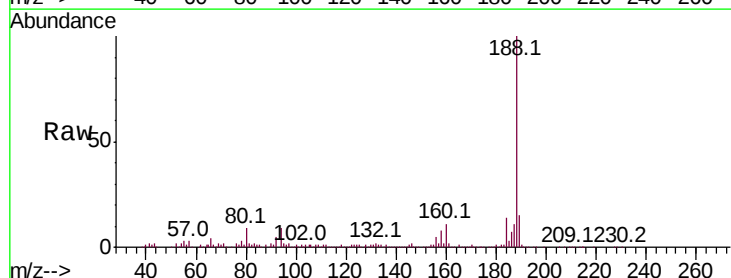
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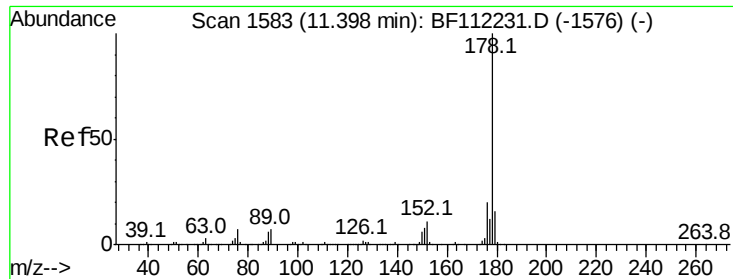
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 8.6   | 8.2  | 12.2  |       |
| 80      | 9.2   | 8.9  | 13.3  |       |





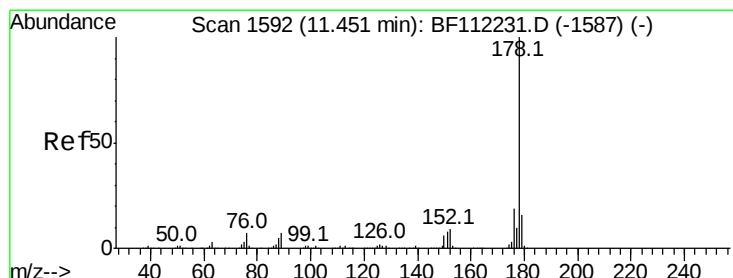
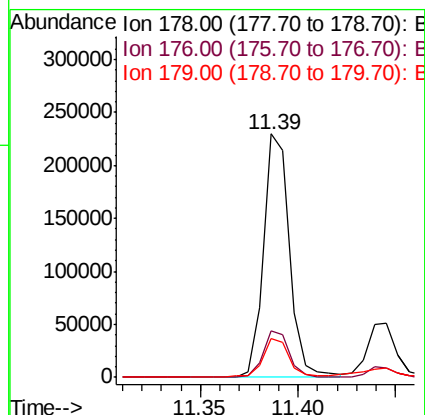
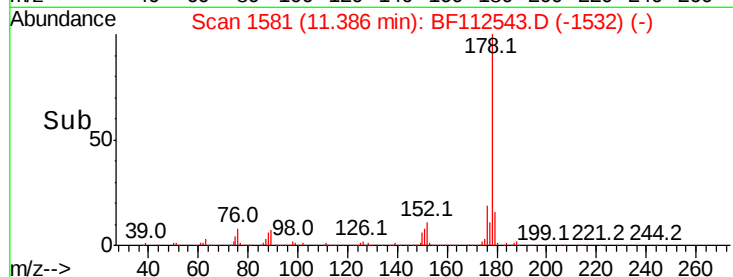
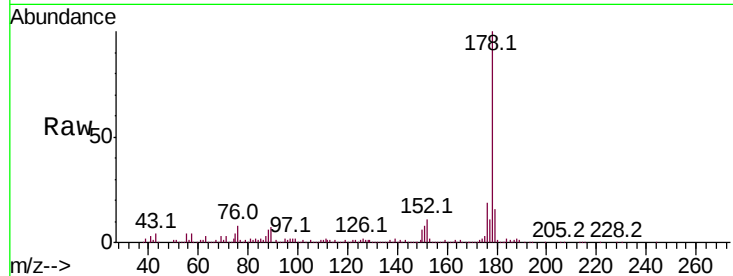
#71  
Phenanthrene  
Concen: 15.162 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 16.3  | 24.5  |
| 179     | 16.0  | 13.0  | 19.4  |

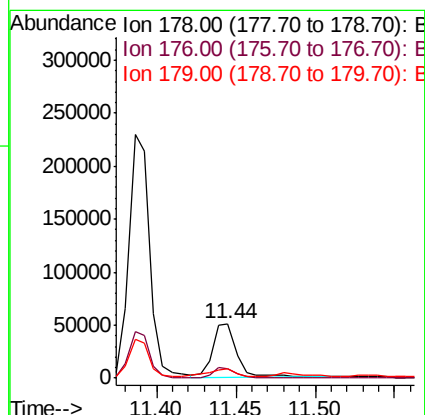
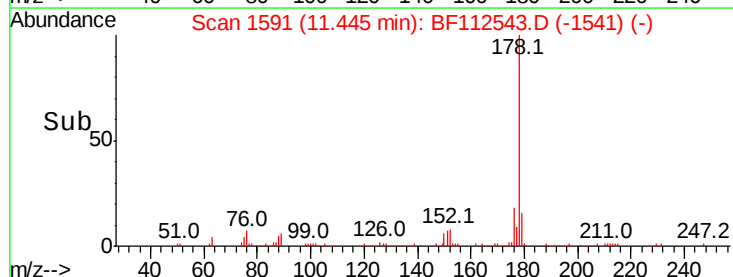
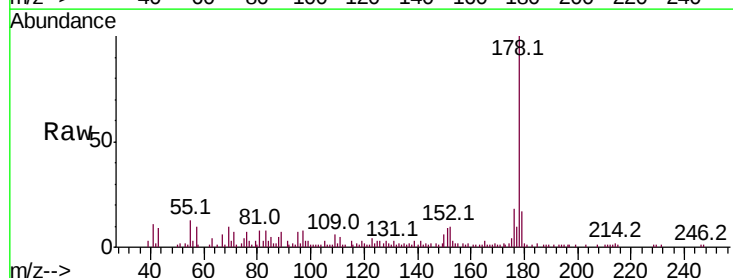
Manual Integrations  
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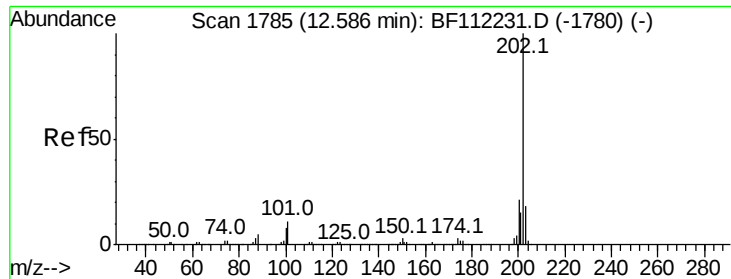
Sohil  
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#72  
Anthracene  
Concen: 3.903 ng  
RT: 11.44 min Scan# 1591  
Delta R.T. -0.01 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.5  | 23.3  |
| 179     | 17.5  | 12.8  | 19.2  |





#75

Fluoranthene

Concen: 15.475 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

Instrument :

BNA\_F

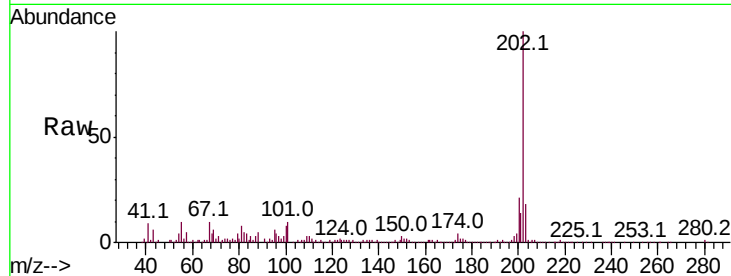
ClientSampled :

JC-02-021119-O

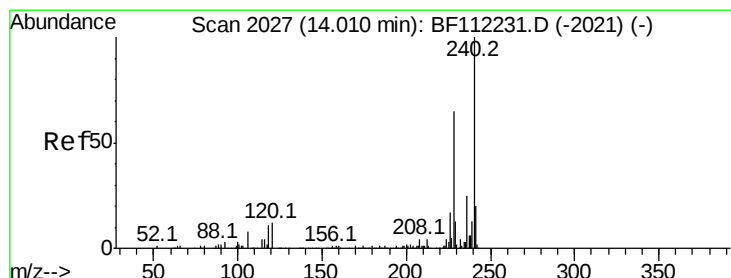
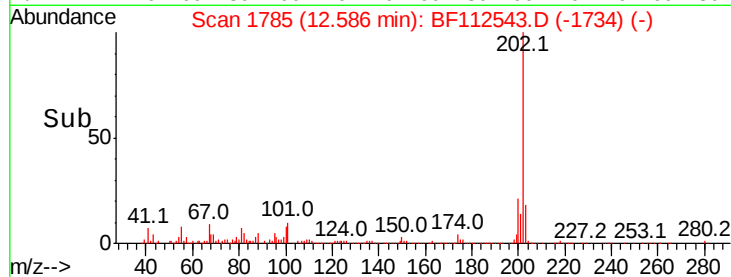
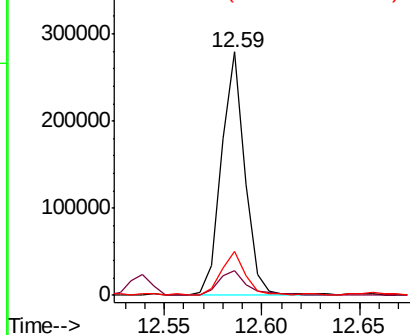
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 232196 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.4  | 0.0   | 31.8   |
| 203       | 17.9  | 0.0   | 38.4   |

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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: 14.02 min Scan# 2028

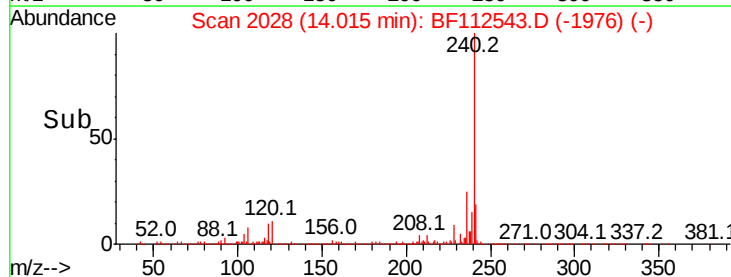
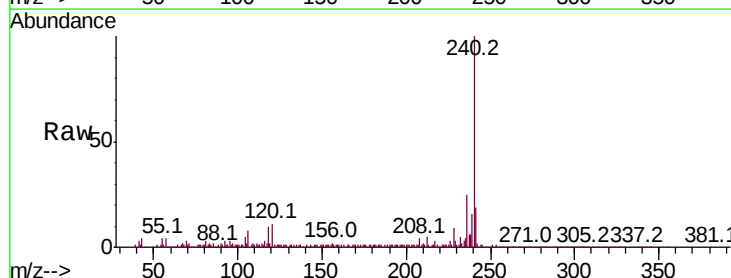
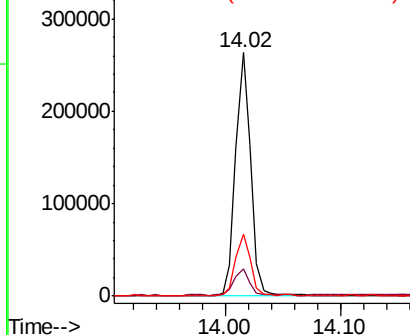
Delta R.T. 0.01 min

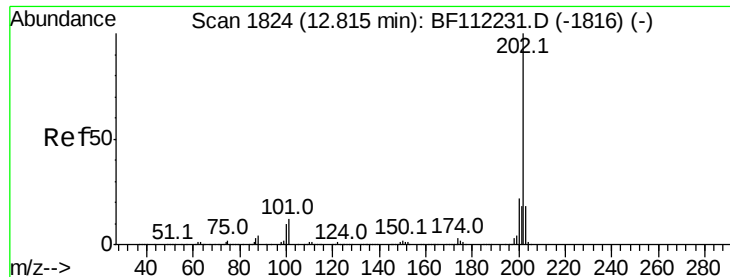
Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 238427 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.3  | 9.0   | 13.6   |
| 236       | 25.4  | 20.7  | 31.1   |

Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 12.674 ng

RT: 12.82 min Scan# 1824

Delta R.T. 0.00 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

Instrument :

BNA\_F

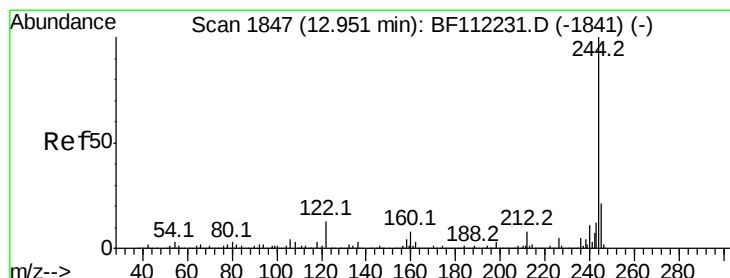
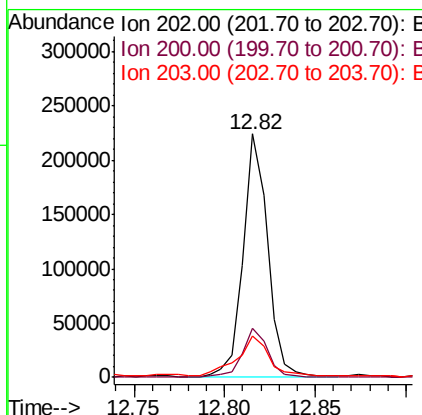
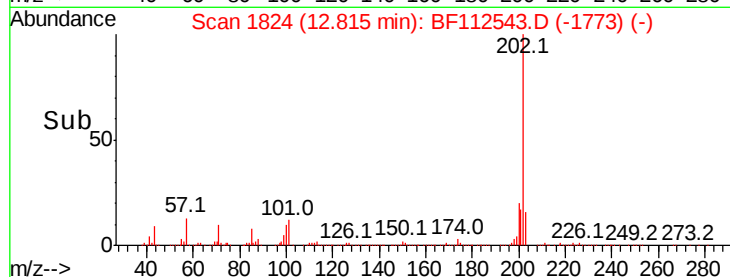
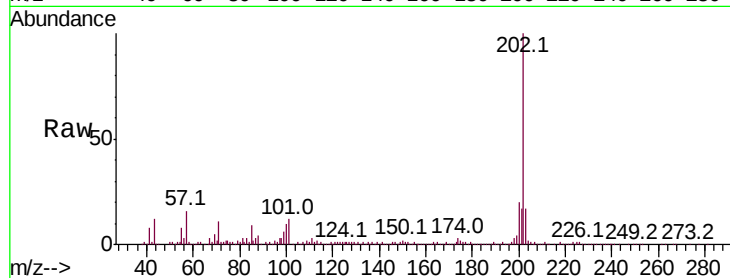
ClientSampleId :

JC-02-021119-O

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 209216 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 20.3 | 17.7  | 26.5   |
| 203       | 17.2 | 14.6  | 22.0   |

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#79

Terphenyl-d14

Concen: 25.399 ng

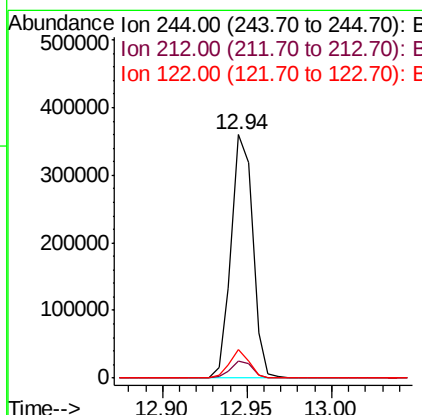
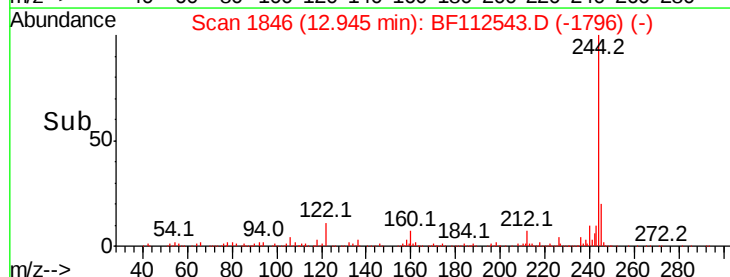
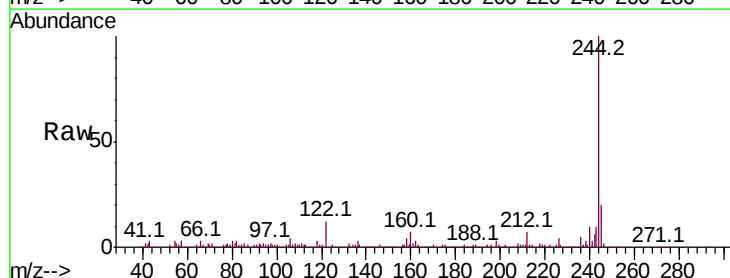
RT: 12.94 min Scan# 1846

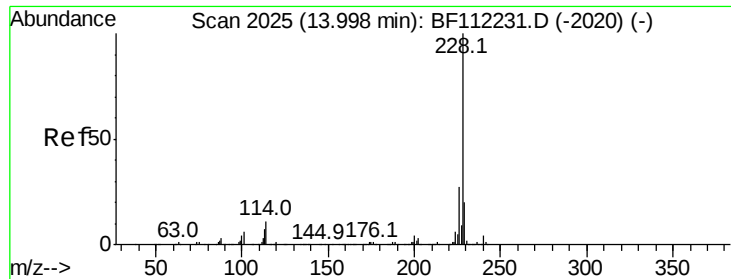
Delta R.T. -0.01 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 321531 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.0  | 5.9   | 8.9    |
| 122       | 11.5 | 9.8   | 14.6   |





#81

Benzo(a)anthracene

Concen: 7.019 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.01 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

Instrument :

BNA\_F

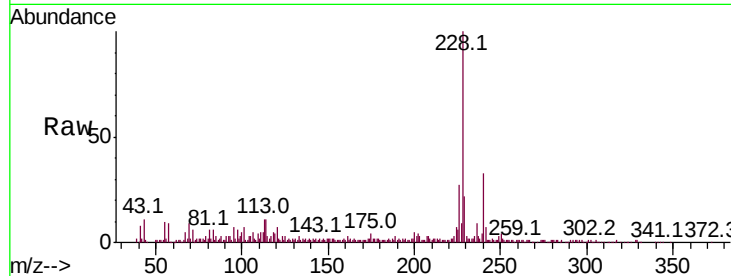
ClientSampleId :

JC-02-021119-O

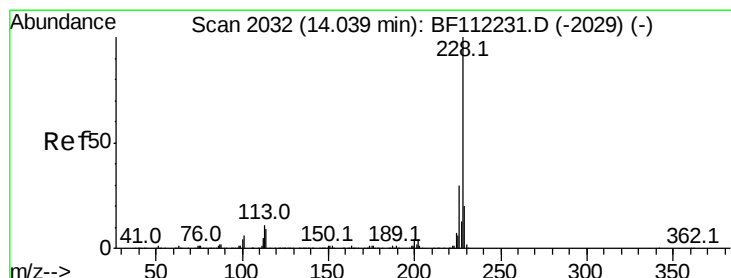
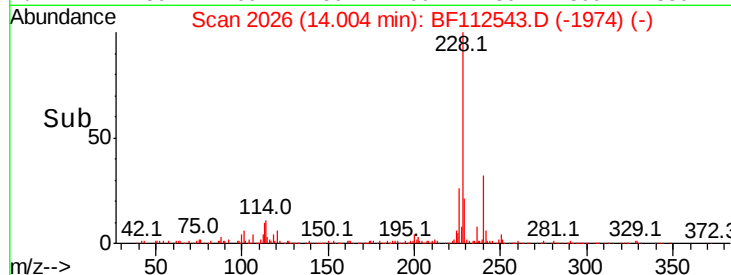
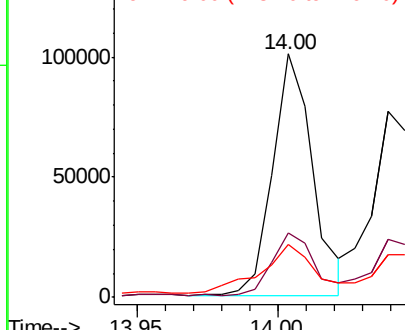
|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 98381 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 26.6    | 22.6  | 34.0  |
| 229 21.9    | 16.5  | 24.7  |

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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



#83

Chrysene

Concen: 6.029 ng

RT: 14.04 min Scan# 2032

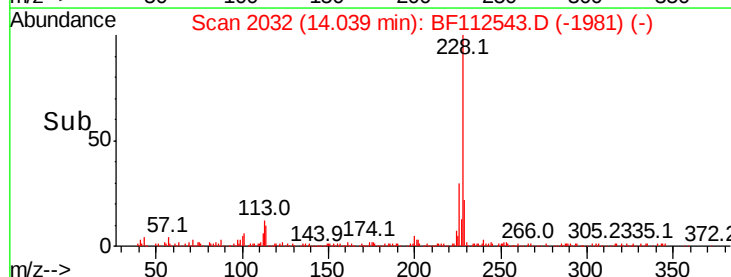
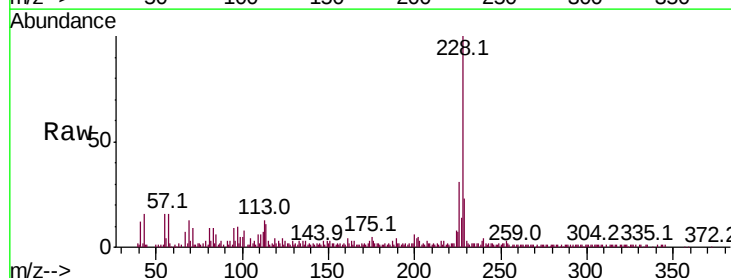
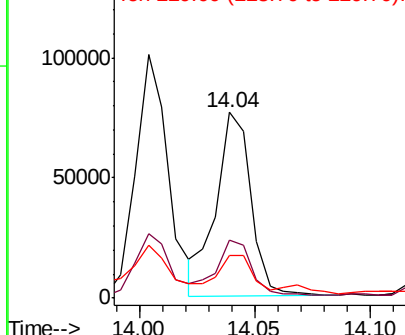
Delta R.T. 0.00 min

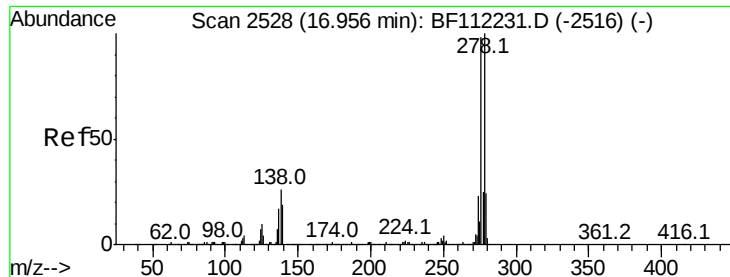
Lab File: BF112543.D

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|             |       |       |
|-------------|-------|-------|
| Tgt Ion:228 | Resp: | 80660 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 31.3    | 25.0  | 37.6  |
| 229 23.0    | 16.6  | 24.8  |

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





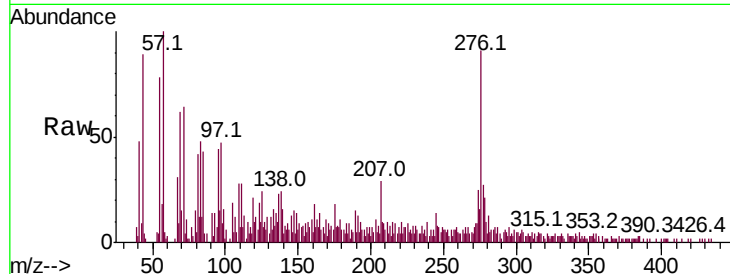
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.710 ng  
RT: 17.01 min Scan# 2537  
Delta R.T. 0.05 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 22.6  | 34.0  |
| 277     | 25.3  | 20.3  | 30.5  |

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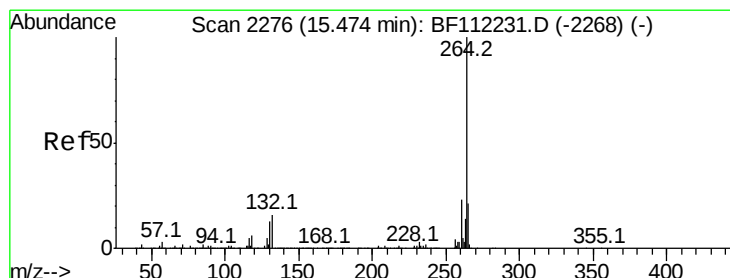
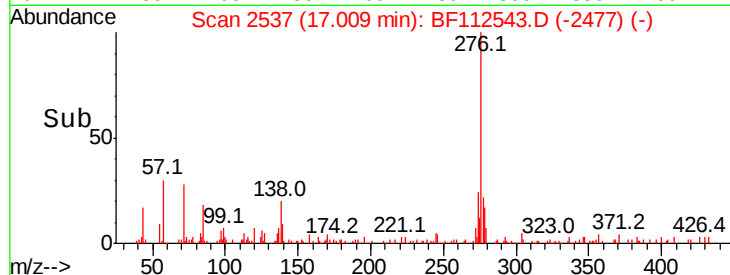
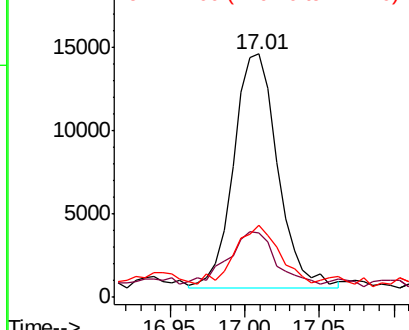


Abundance

Ion 276.00 (275.70 to 276.70): E

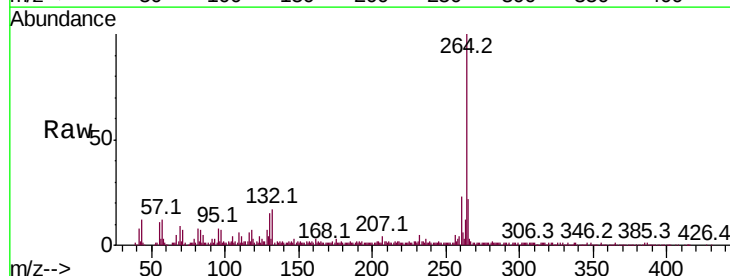
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. 0.02 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.2  | 27.2  |
| 265     | 21.8  | 17.0  | 25.4  |

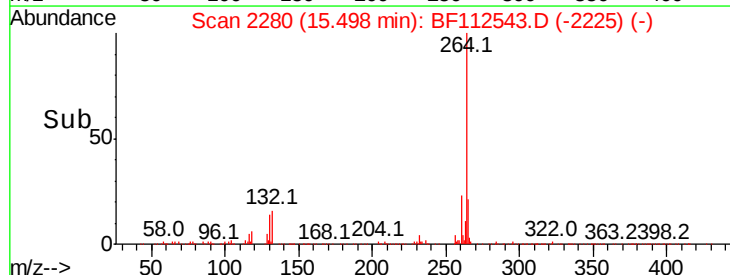
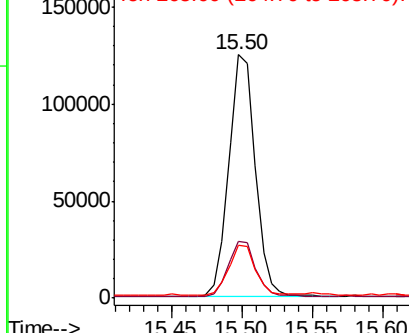


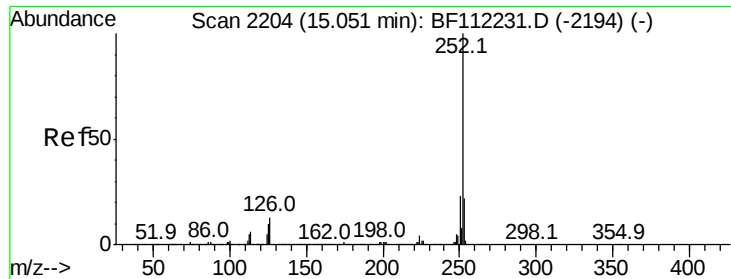
Abundance

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: 8.138 ng m

RT: 15.07 min Scan# 2207

Delta R.T. 0.02 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

Instrument :

BNA\_F

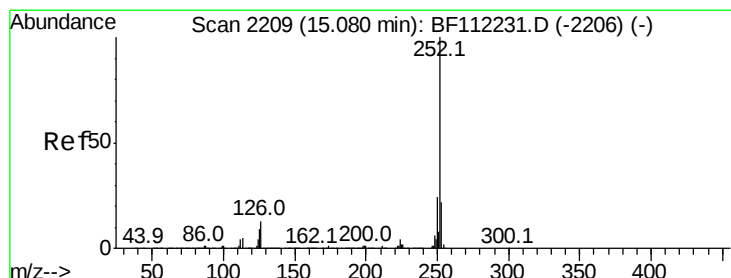
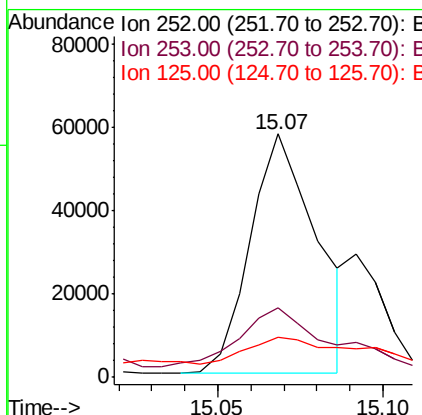
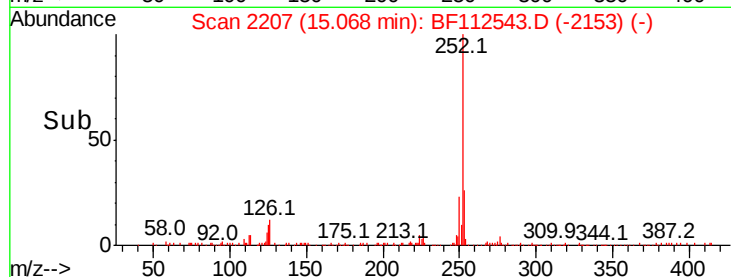
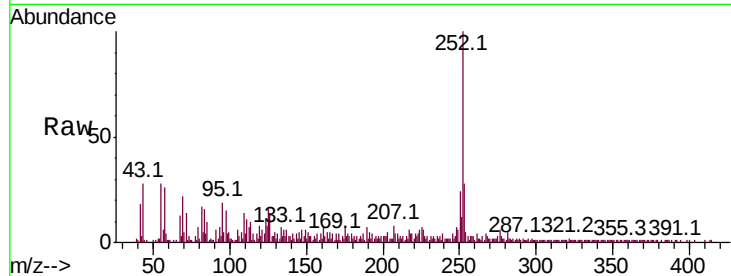
ClientSampleId :

JC-02-021119-O

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 79816 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.5  | 18.0  | 27.0# |
| 125       | 16.3  | 8.7   | 13.1# |

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#89

Benzo(k)fluoranthene

Concen: 2.500 ng m

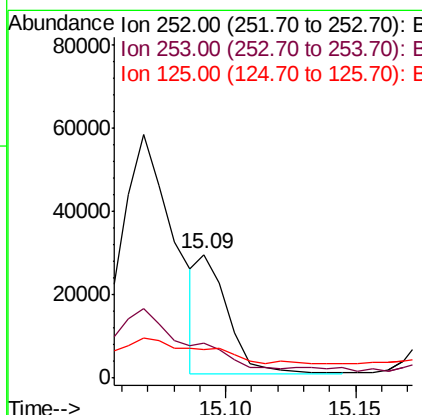
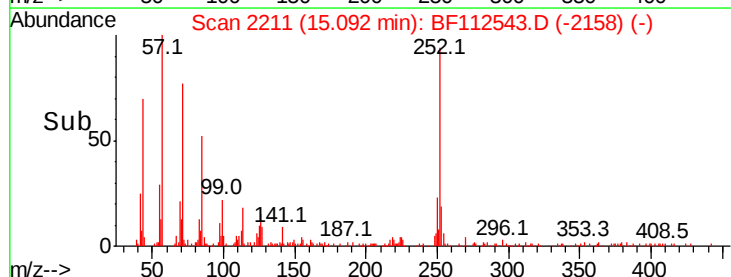
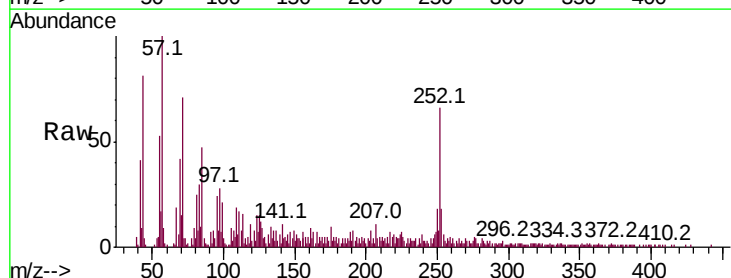
RT: 15.09 min Scan# 2211

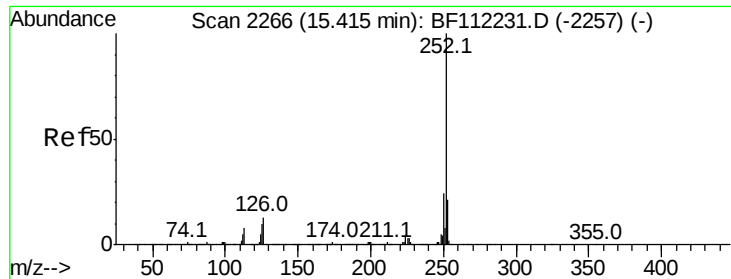
Delta R.T. 0.01 min

Lab File: BF112543.D

Acq: 13 Feb 2019 17:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 23490 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.0  | 18.0  | 27.0# |
| 125       | 22.6  | 9.1   | 13.7# |





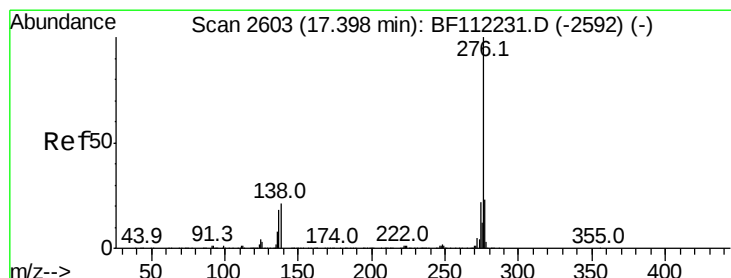
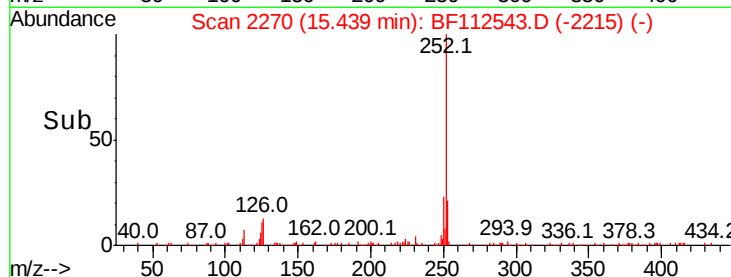
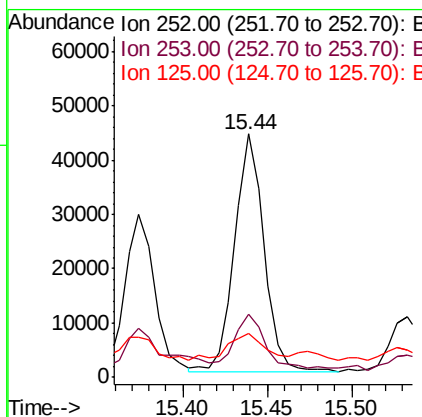
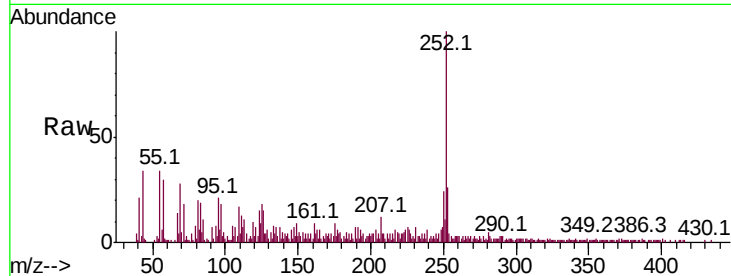
#90  
Benzo(a)pyrene  
Concen: 6.061 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.02 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

Instrument :  
BNA\_F  
ClientSampleId :  
JC-02-021119-O

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 17.5  | 26.3  |
| 125     | 17.8  | 9.0   | 13.4  |

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#92  
Benzo(g,h,i)perylene  
Concen: 4.337 ng  
RT: 17.46 min Scan# 2614  
Delta R.T. 0.06 min  
Lab File: BF112543.D  
Acq: 13 Feb 2019 17:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.1  | 19.4  | 29.0  |
| 138     | 19.8  | 19.1  | 28.7  |

