

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\  
 Data File : BF118047.D  
 Acq On : 27 Nov 2019 18:10  
 Operator : JU  
 Sample : K5959-07 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-112019-2-5-COMP-B4

Manual Integrations  
 APPROVED

mohammad  
 11/29/2019 8:53:43 AM

Quant Time: Nov 28 00:35:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 05:38:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 139407   | 20.00   | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.17  | 136  | 532510   | 20.00   | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.93  | 164  | 253979   | 20.00   | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.43 | 188  | 407512   | 20.00   | ng    | 0.00     |
| 76) Chrysene-d12               | 14.10 | 240  | 304738   | 20.00   | ng    | 0.01     |
| 87) Perylene-d12               | 15.60 | 264  | 310675   | 20.00   | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |         |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 436448   | 55.42   | ng    | 0.00     |
| 7) Phenol-d6                   | 6.51  | 99   | 545633   | 57.44   | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 318781   | 35.59   | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.73 | 330  | 140091   | 52.10   | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.25  | 172  | 631862   | 44.63   | ng    | -0.01    |
| 79) Terphenyl-d14              | 13.02 | 244  | 563771   | 33.81   | ng    | 0.00     |
| Target Compounds               |       |      |          |         |       |          |
| 49) Acenaphthylene             | 9.79  | 152  | 172357   | 7.626   | ng    | 98       |
| 50) Dimethylphthalate          | 9.64  | 163  | 107683   | 6.046   | ng    | 98       |
| 52) Acenaphthene               | 9.96  | 154  | 44548    | 3.077   | ng    | 100      |
| 58) Fluorene                   | 10.48 | 166  | 59732    | 3.845   | ng    | # 97     |
| 71) Phenanthrene               | 11.46 | 178  | 1631006  | 79.606  | ng    | 99       |
| 72) Anthracene                 | 11.50 | 178  | 451638   | 22.233  | ng    | 98       |
| 73) Carbazole                  | 11.66 | 167  | 63332    | 3.568   | ng    | 94       |
| 75) Fluoranthene               | 12.66 | 202  | 2505023  | 152.188 | ng    | 98       |
| 78) Pyrene                     | 12.90 | 202  | 3639441  | 147.779 | ng    | 97       |
| 81) Benzo(a)anthracene         | 14.09 | 228  | 2199915  | 109.245 | ng    | 96       |
| 83) Chrysene                   | 14.13 | 228  | 2044390  | 104.769 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 14.06 | 149  | 1187944  | 92.636  | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene     | 17.13 | 276  | 492491   | 29.654  | ng    | # 94     |
| 88) Benzo(b)fluoranthene       | 15.16 | 252  | 1837153m | 91.017  | ng    |          |
| 89) Benzo(k)fluoranthene       | 15.19 | 252  | 496350m  | 26.098  | ng    |          |
| 90) Benzo(a)pyrene             | 15.54 | 252  | 1337082  | 75.332  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 17.13 | 278  | 168593   | 11.036  | ng    | 96       |
| 92) Benzo(g,h,i)perylene       | 17.59 | 276  | 478934   | 31.475  | ng    | 98       |

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

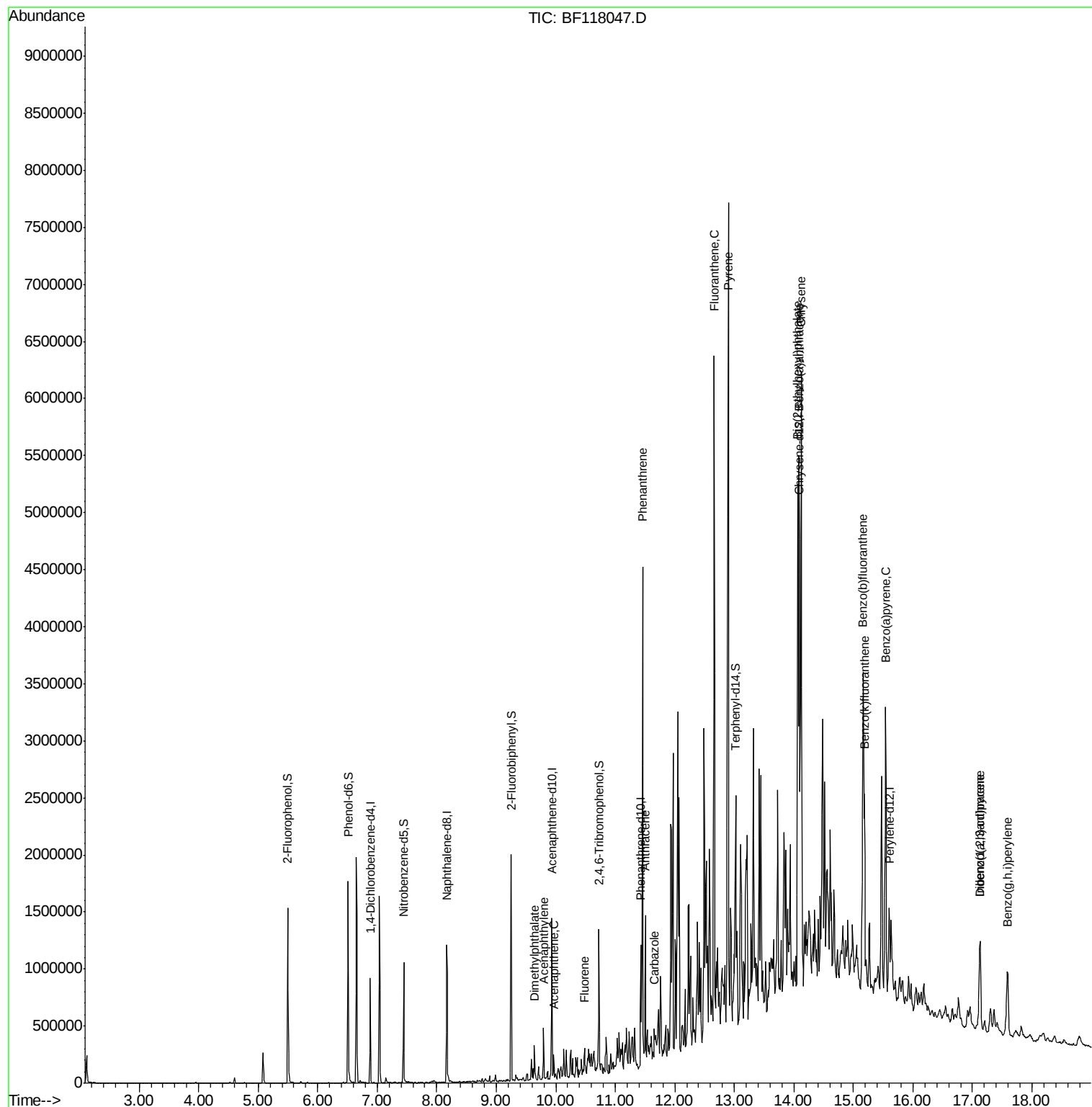
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\  
Data File : BF118047.D  
Acq On : 27 Nov 2019 18:10  
Operator : JU  
Sample : K5959-07 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

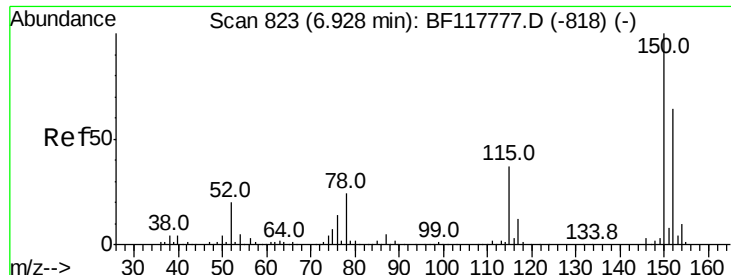
Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

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11/29/2019 8:53:43 AM

Quant Time: Nov 28 00:35:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 26 05:38:20 2019  
Response via : Initial Calibration





#1

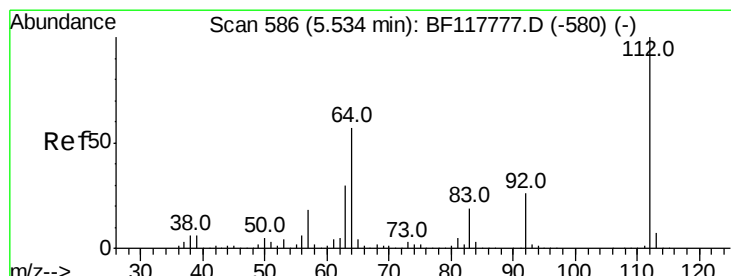
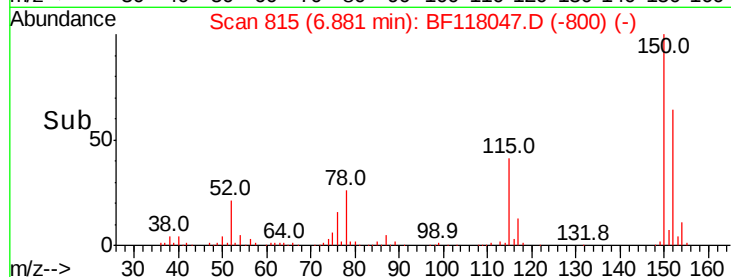
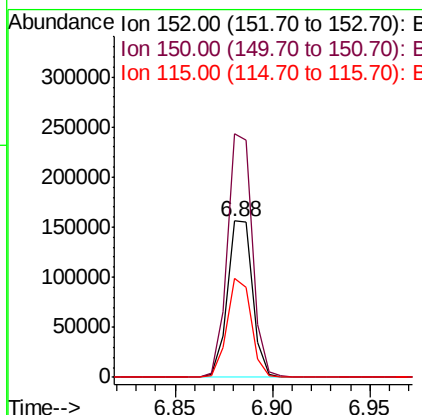
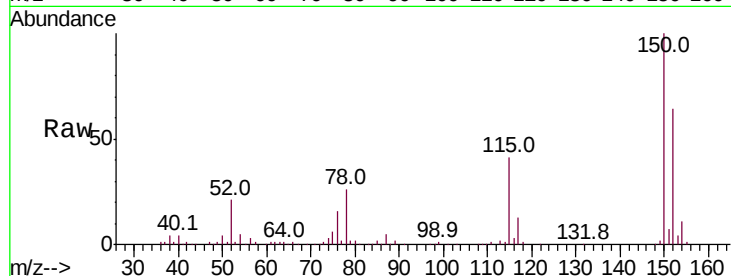
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 125.3 | 187.9 |
| 115     | 63.2  | 47.0  | 70.4  |

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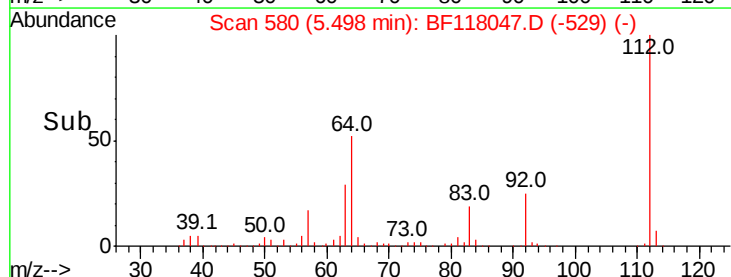
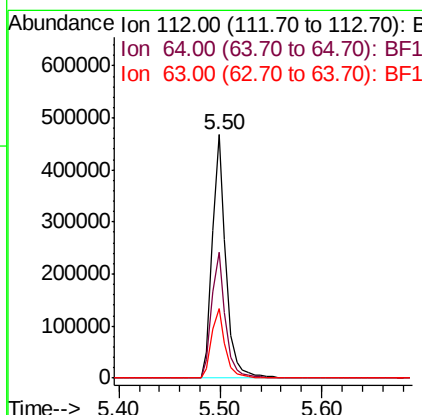
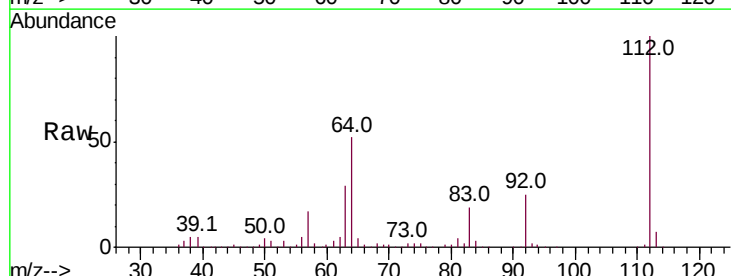
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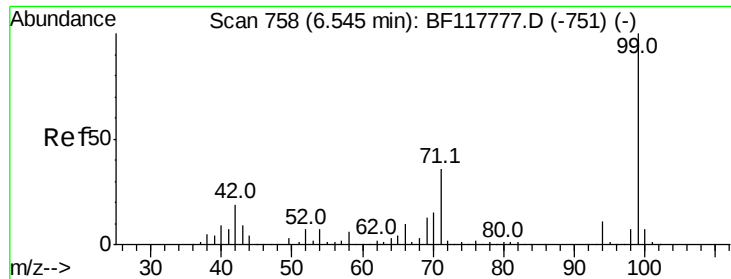


#5

2-Fluorophenol  
Concen: 55.418 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.9  | 45.6  | 68.4  |
| 63      | 28.8  | 24.1  | 36.1  |





#7

Phenol-d6

Concen: 57.439 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

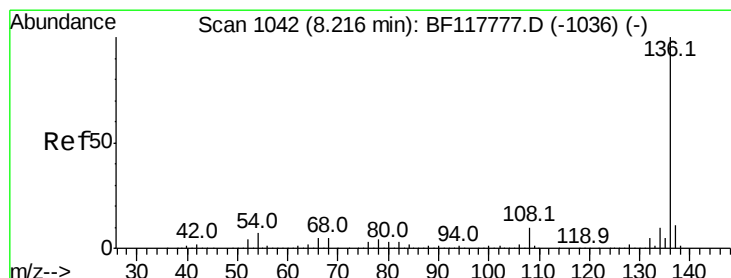
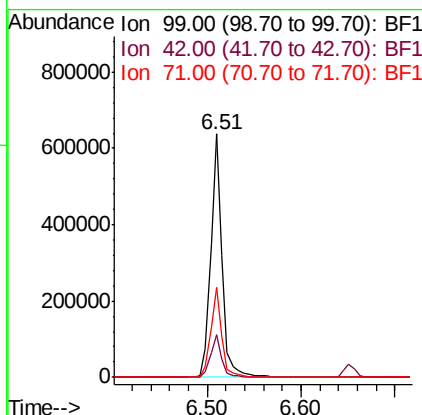
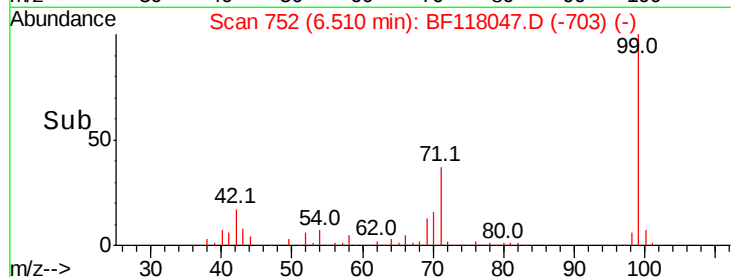
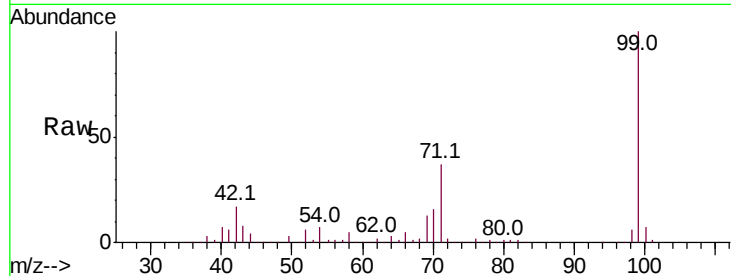
ClientSampleId :

WS-112019-2-5-COMP-B4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 545633 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.4  | 14.9  | 22.3   |
| 71        | 37.1  | 28.6  | 43.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

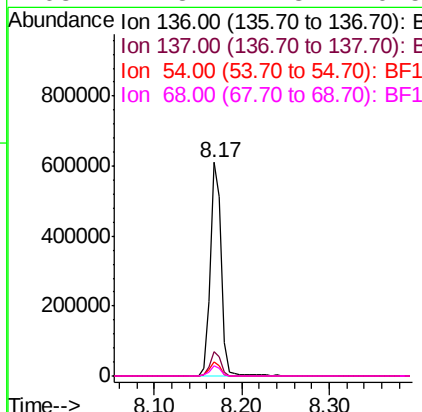
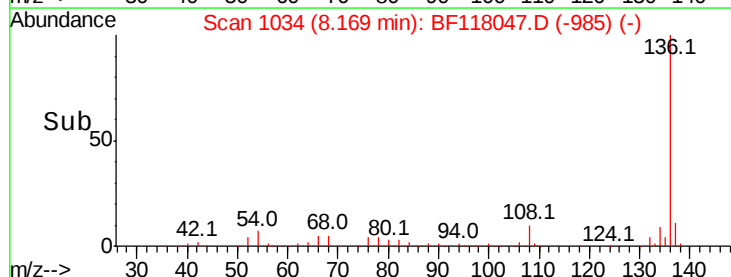
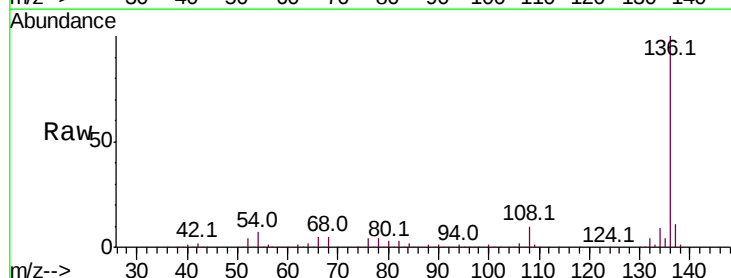
RT: 8.17 min Scan# 1034

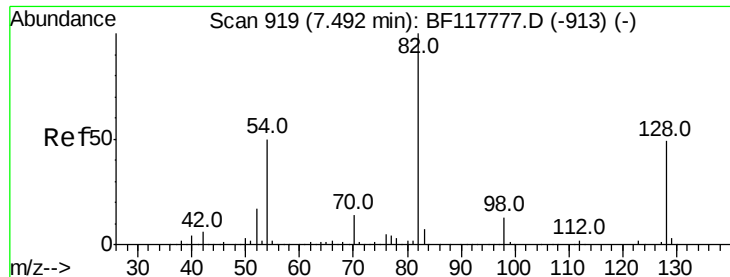
Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 532510 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 9.0   | 13.4   |
| 54        | 6.7   | 5.4   | 8.2    |
| 68        | 4.8   | 4.3   | 6.5    |





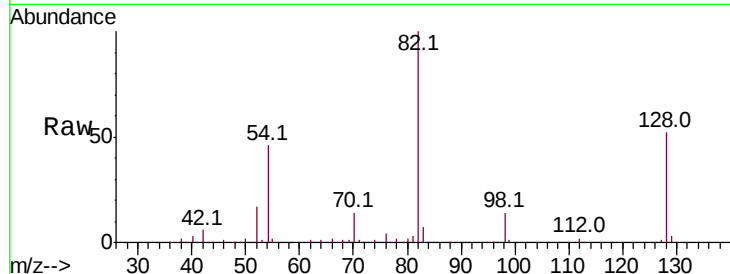
#23  
Nitrobenzene-d5  
Concen: 35.587 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.02 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 51.6  | 38.9 | 58.3  |       |
| 54      | 45.6  | 39.8 | 59.6  |       |

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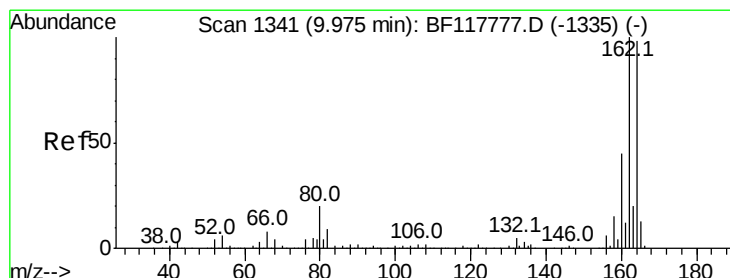
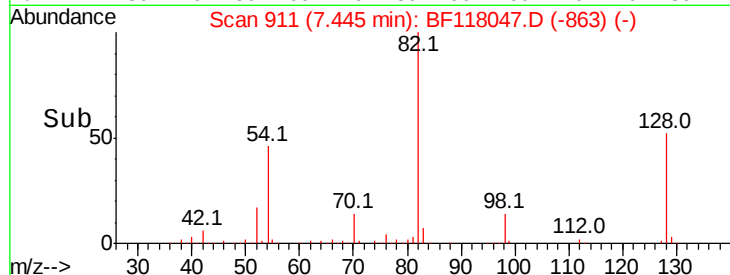
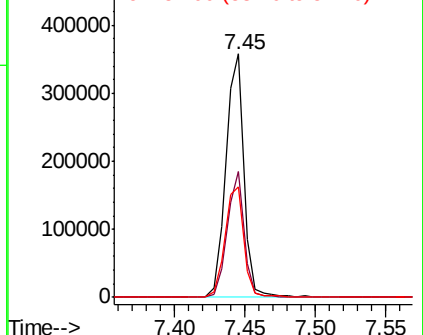


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

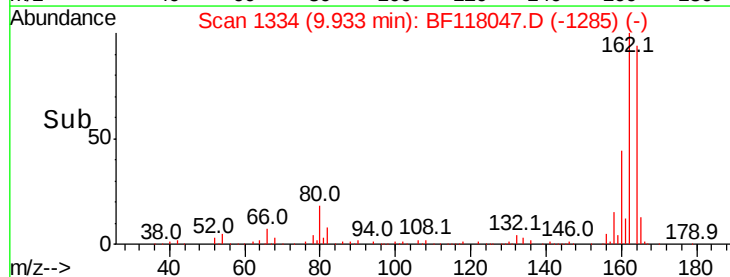
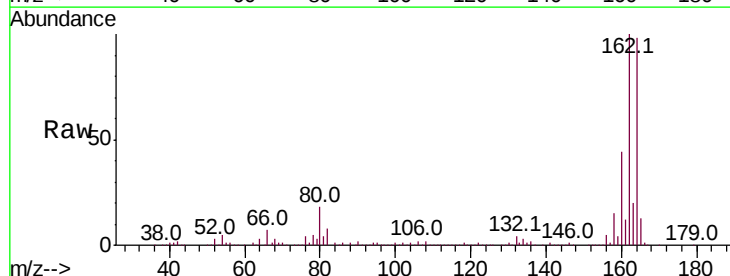
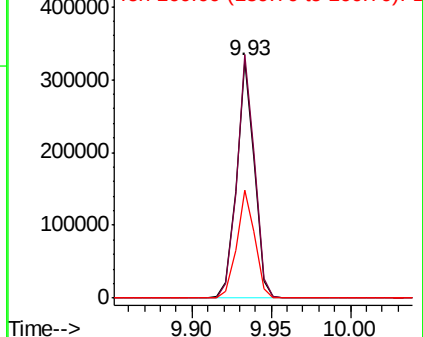
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.5 | 81.3 | 121.9 |       |
| 160     | 45.2  | 36.6 | 55.0  |       |

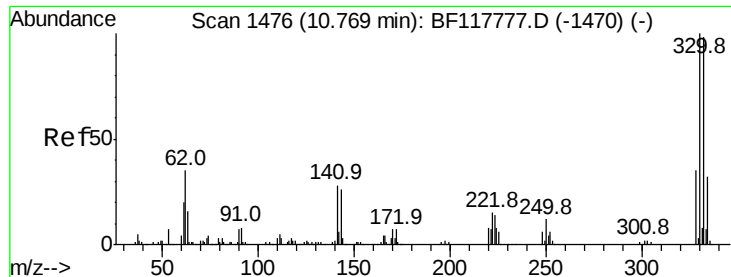
Abundance

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





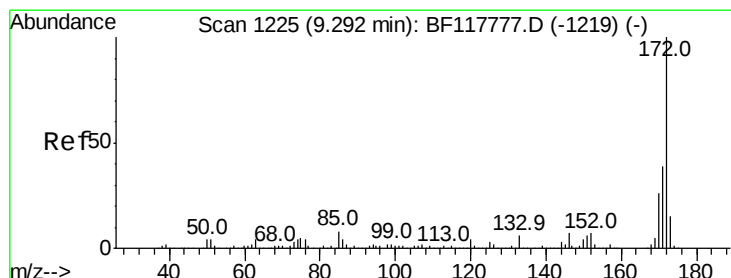
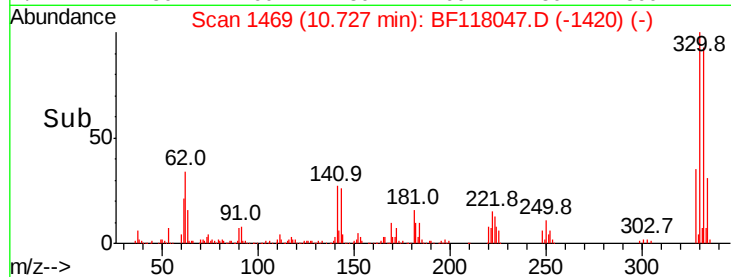
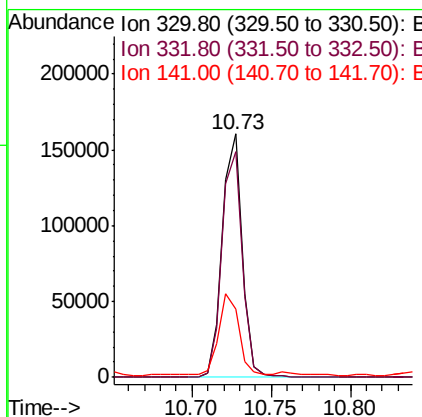
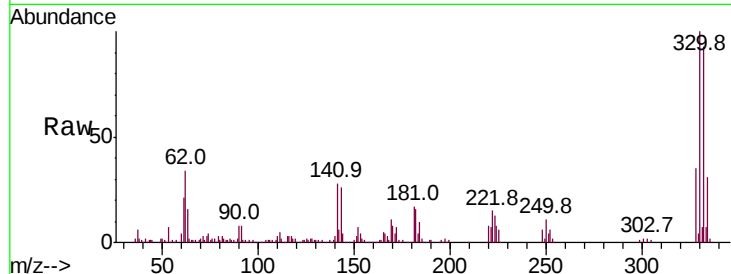
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 2,4,6-Tribromophenol  
 Concen: 52.101 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: BF118047.D  
 Acq: 27 Nov 2019 18:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 140091 |       |       |
| 332     | 95.5  | 76.7   | 115.1 |       |
| 141     | 32.9  | 27.7   | 41.5  |       |

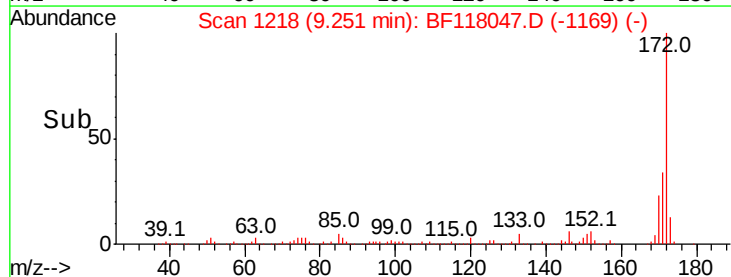
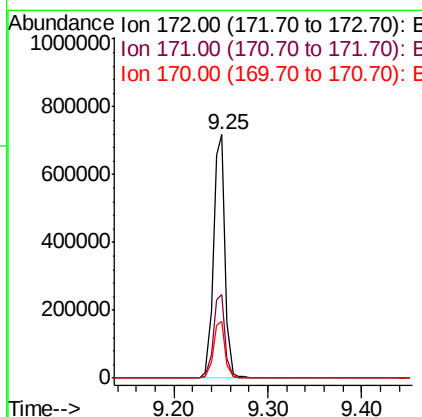
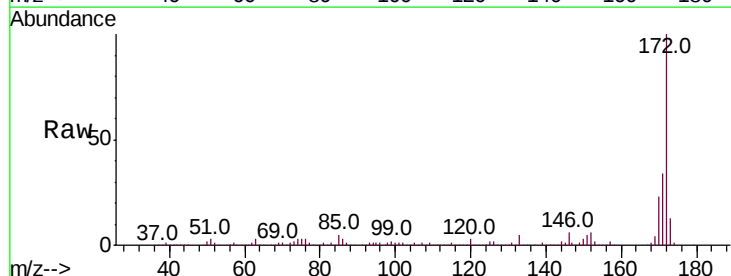
Manual Integrations  
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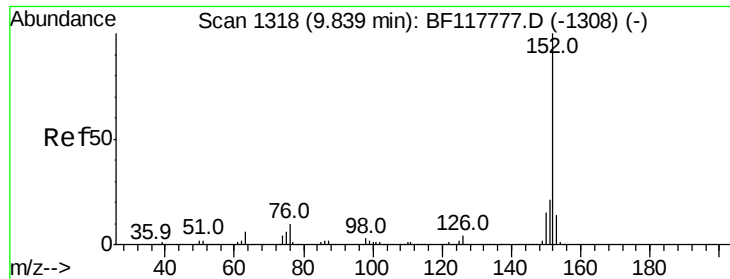
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#45  
 2-Fluorobiphenyl  
 Concen: 44.633 ng  
 RT: 9.25 min Scan# 1218  
 Delta R.T. -0.01 min  
 Lab File: BF118047.D  
 Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 631862 |       |       |
| 171     | 34.4  | 30.9   | 46.3  |       |
| 170     | 23.3  | 21.0   | 31.4  |       |





#49

Acenaphthylene

Concen: 7.626 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

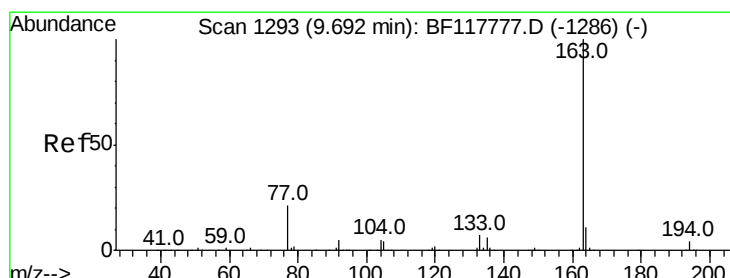
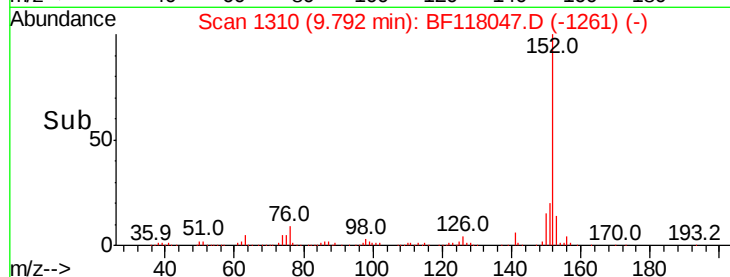
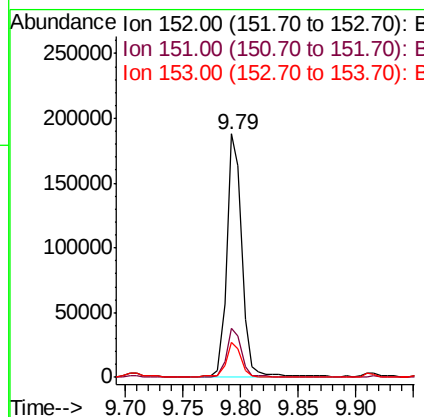
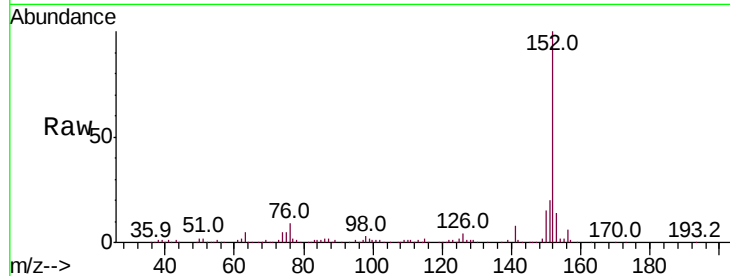
ClientSampleId :

WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 172357 |       |       |
| 151     | 20.1  |        | 17.0  | 25.6  |
| 153     | 14.1  |        | 11.0  | 16.6  |

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11/29/2019 8:53:43 AM



#50

Dimethylphthalate

Concen: 6.046 ng

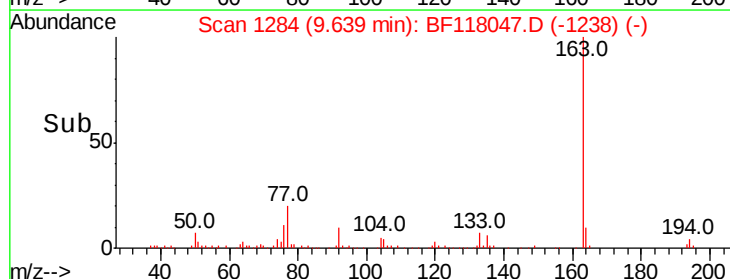
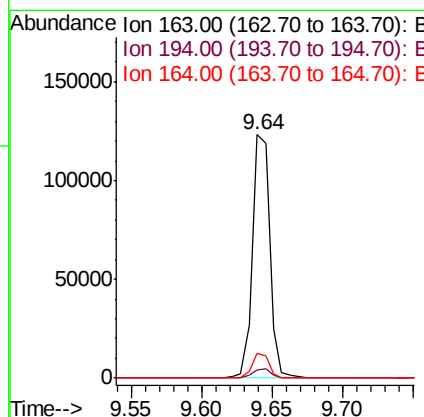
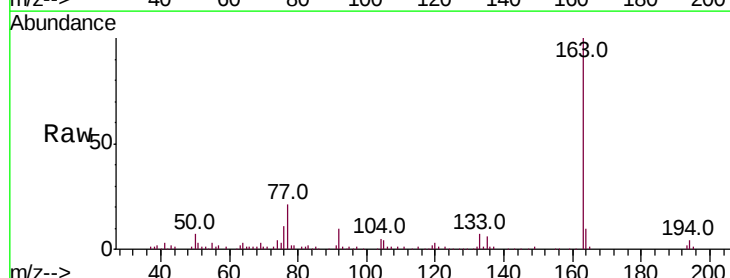
RT: 9.64 min Scan# 1284

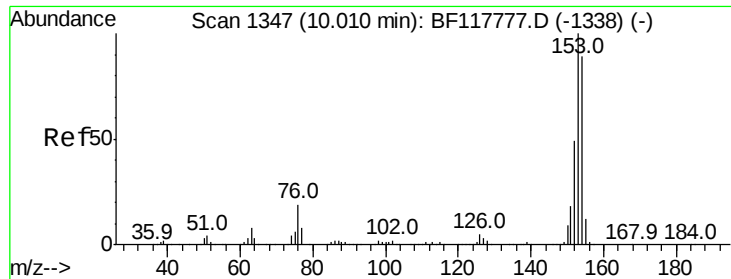
Delta R.T. -0.03 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 107683 |       |       |
| 194     | 3.6   |        | 3.3   | 4.9   |
| 164     | 9.9   |        | 8.7   | 13.1  |





#52

Acenaphthene

Concen: 3.077 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.02 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

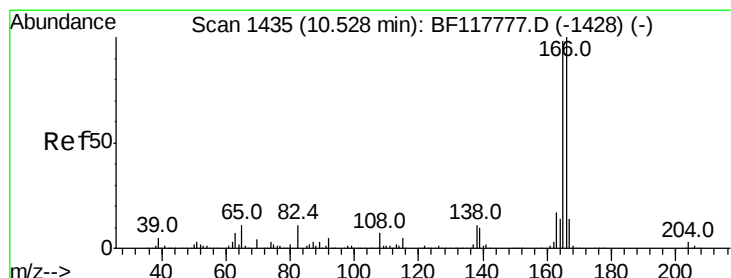
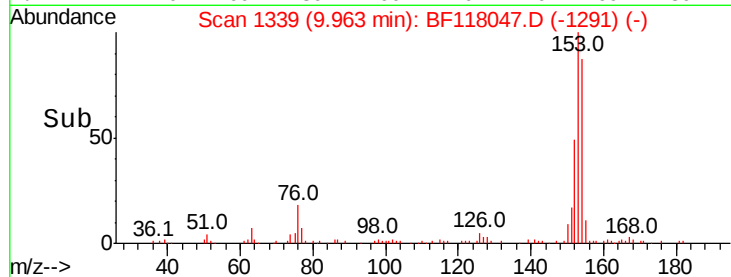
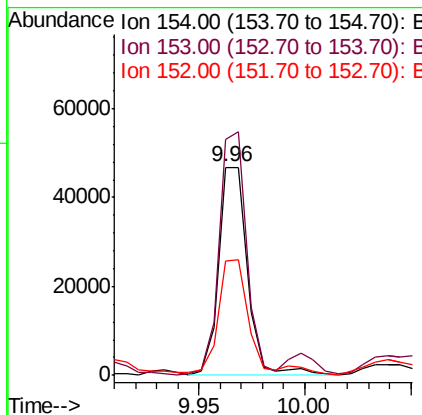
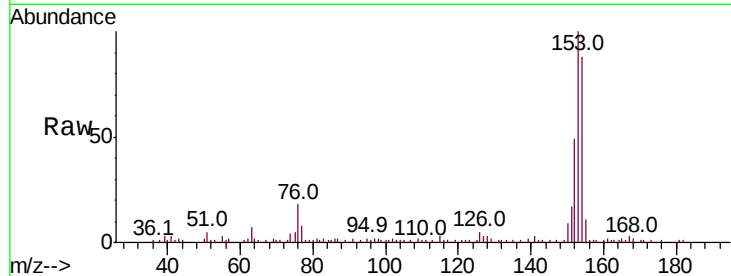
ClientSampleId :

WS-112019-2-5-COMP-B4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 44548 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 113.2 | 90.1  | 135.1 |
| 152       | 55.1  | 44.0  | 66.0  |

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#58

Fluorene

Concen: 3.845 ng

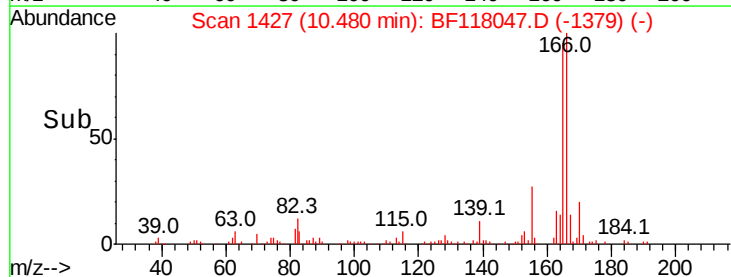
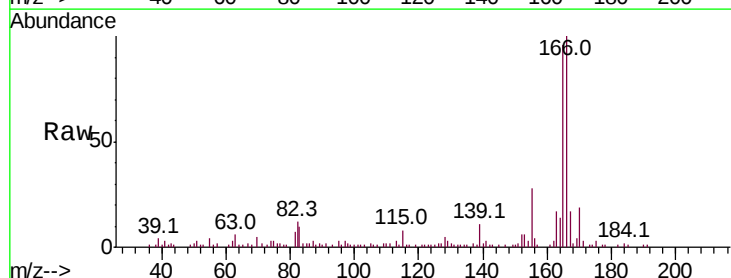
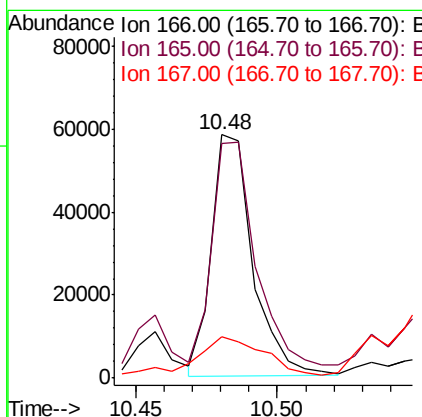
RT: 10.48 min Scan# 1427

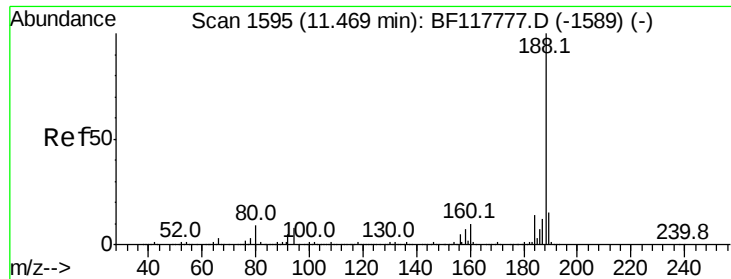
Delta R.T. -0.02 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 59732 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.2  | 78.4  | 117.6 |
| 167       | 17.2  | 11.0  | 16.4# |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

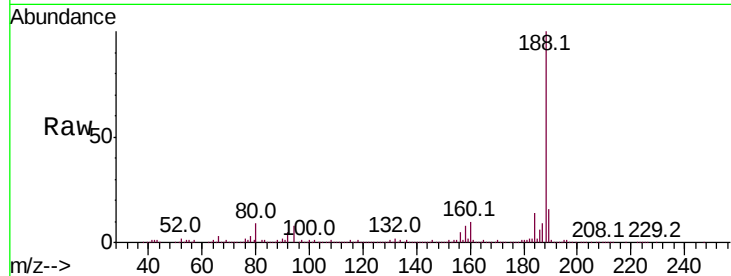
ClientSampleId :

WS-112019-2-5-COMP-B4

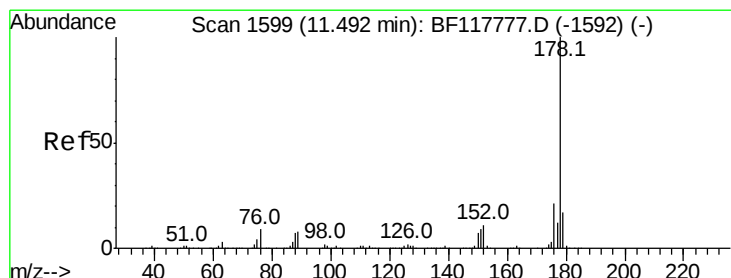
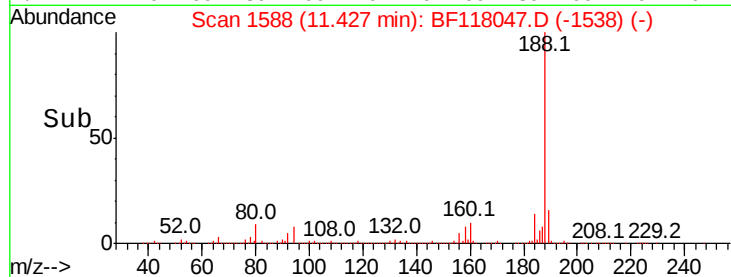
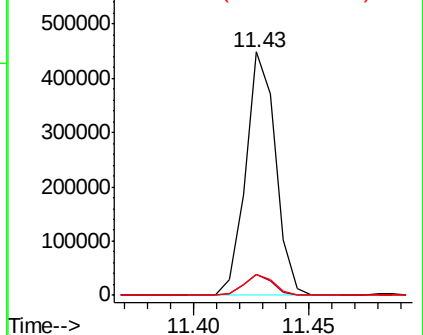
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 407512 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.4   | 6.6   | 10.0   |
| 80        | 8.7   | 7.2   | 10.8   |

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



#71

Phenanthrene

Concen: 79.606 ng

RT: 11.46 min Scan# 1593

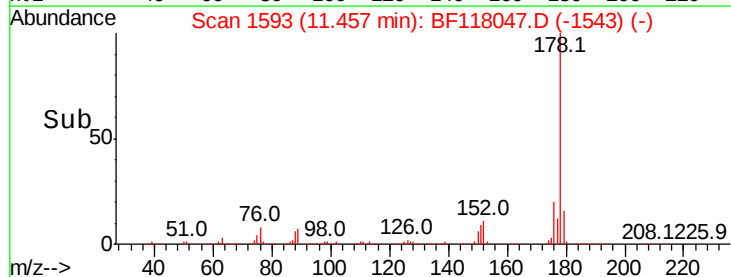
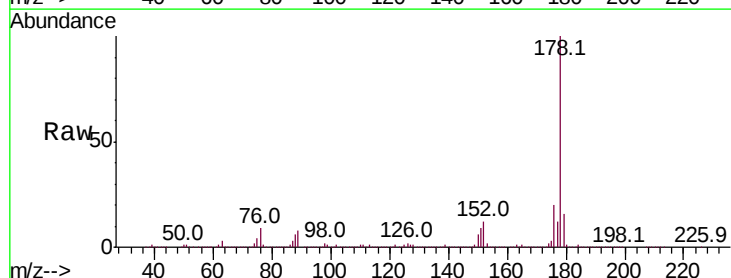
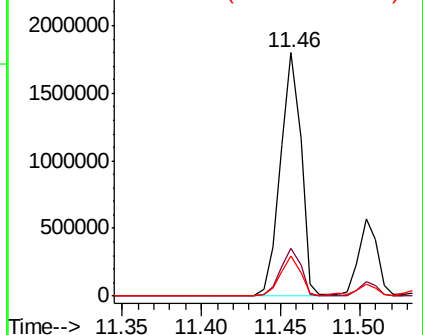
Delta R.T. -0.01 min

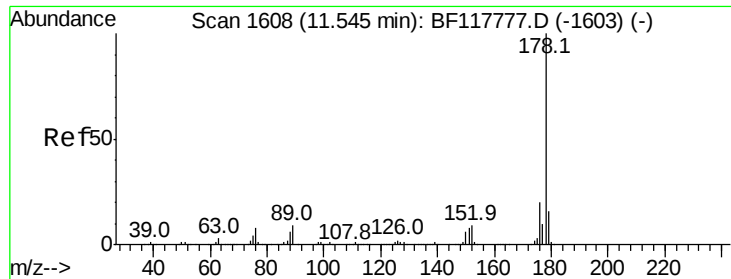
Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1631006 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 176       | 19.8  | 16.6  | 25.0    |
| 179       | 16.2  | 13.2  | 19.8    |

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





#72

Anthracene

Concen: 22.233 ng

RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

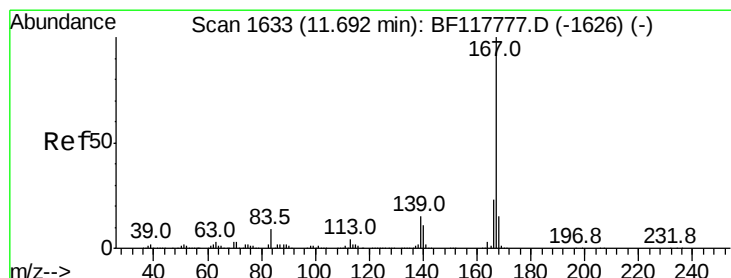
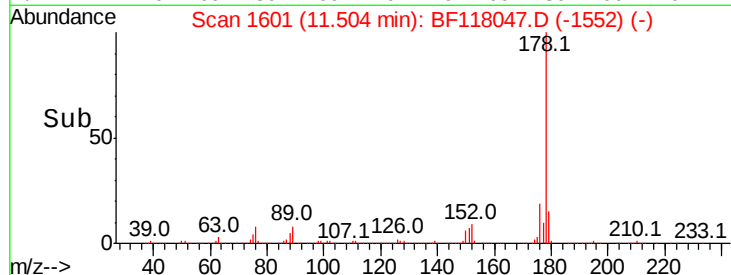
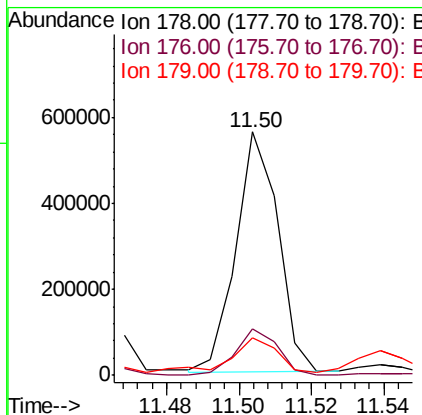
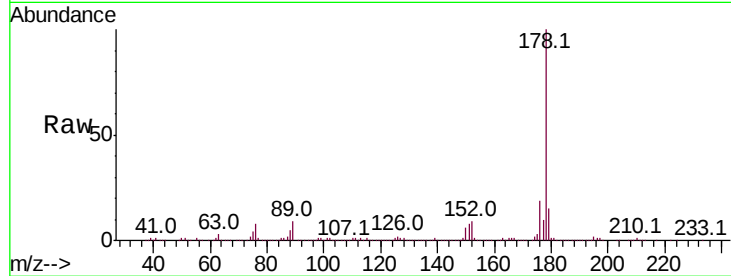
ClientSampleId :

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 451638 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.0  | 16.1  | 24.1   |
| 179       | 15.5  | 13.0  | 19.4   |

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#73

Carbazole

Concen: 3.568 ng

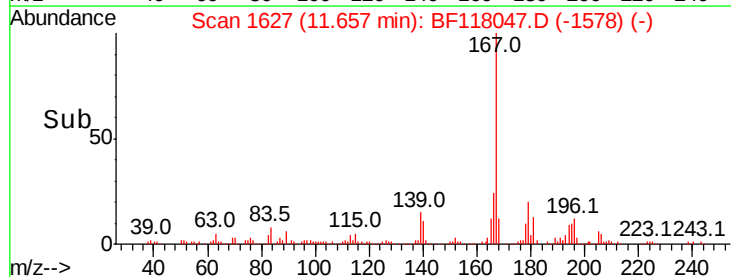
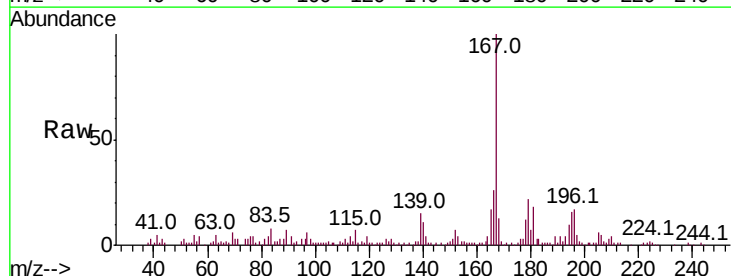
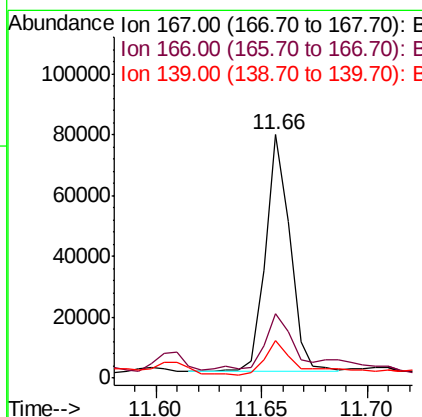
RT: 11.66 min Scan# 1627

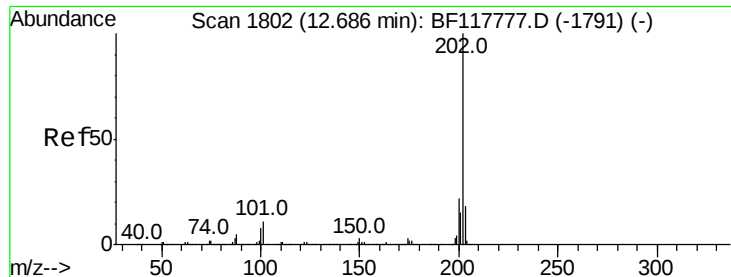
Delta R.T. -0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 63332 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 26.4  | 18.0  | 27.0  |
| 139       | 15.4  | 11.7  | 17.5  |





#75

Fluoranthene

Concen: 152.188 ng

RT: 12.66 min Scan# 1798

Delta R.T. 0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

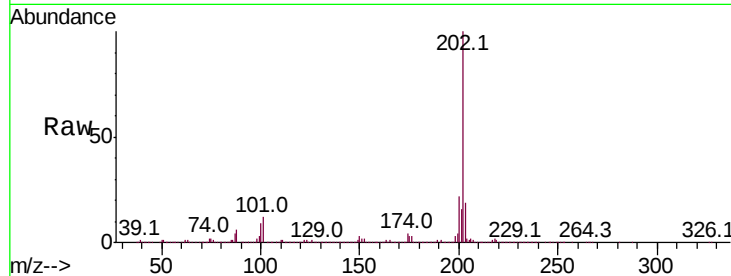
ClientSampleId :

WS-112019-2-5-COMP-B4

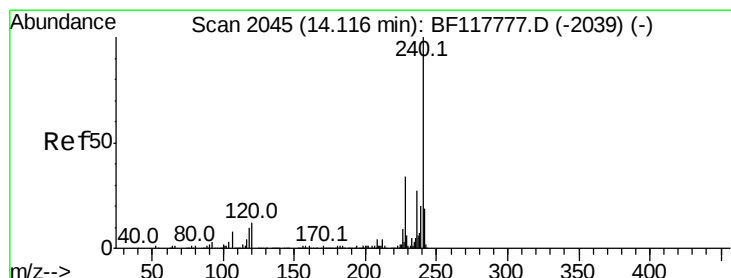
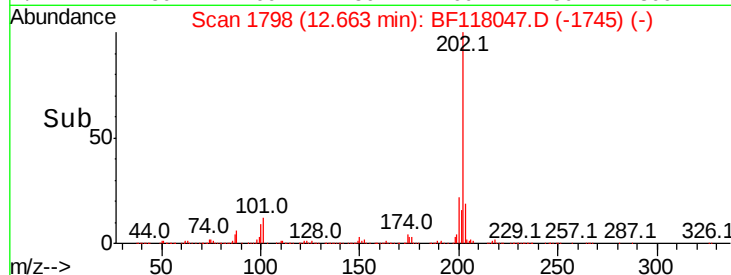
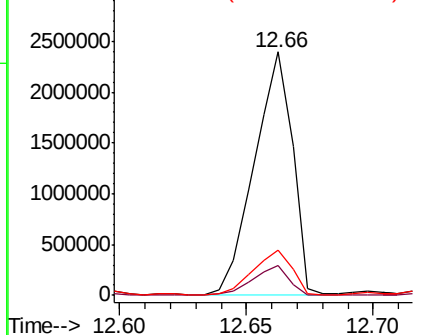
|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 2505023 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.3  | 0.0   | 31.1    |
| 203       | 18.8  | 0.0   | 38.2    |

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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

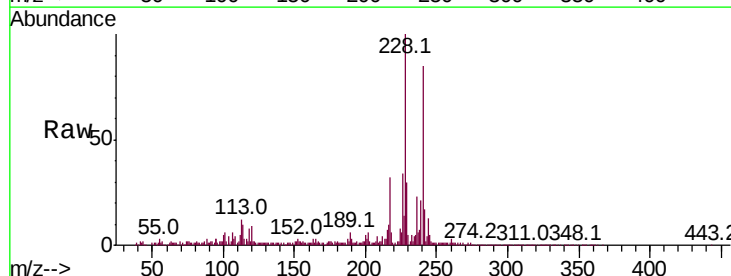
RT: 14.10 min Scan# 2042

Delta R.T. 0.01 min

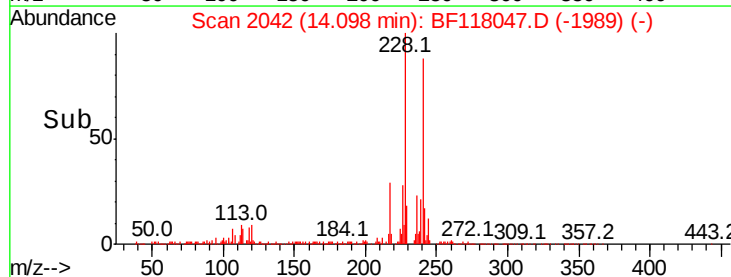
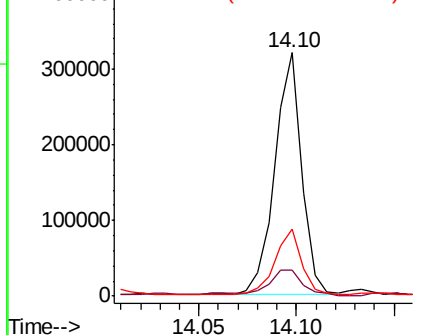
Lab File: BF118047.D

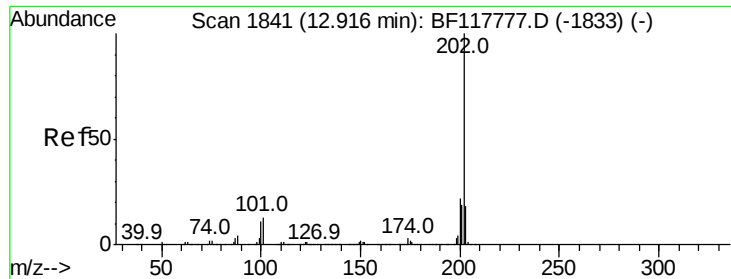
Acq: 27 Nov 2019 18:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 304738 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.4  | 9.5   | 14.3   |
| 236       | 27.4  | 21.3  | 31.9   |



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





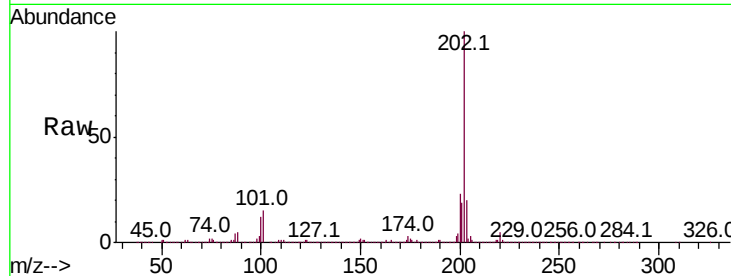
#78  
Pvrene  
Concen: 147.779 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. 0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.8  | 17.8  | 26.8  |
| 203     | 20.3  | 14.6  | 22.0  |

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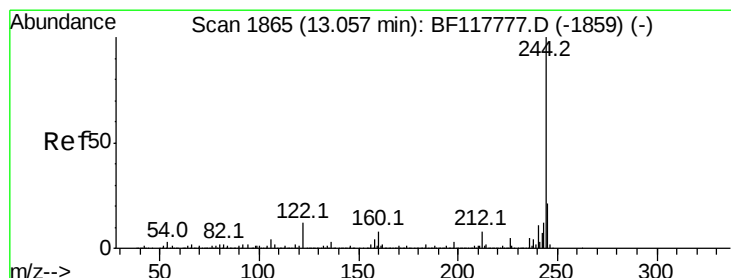
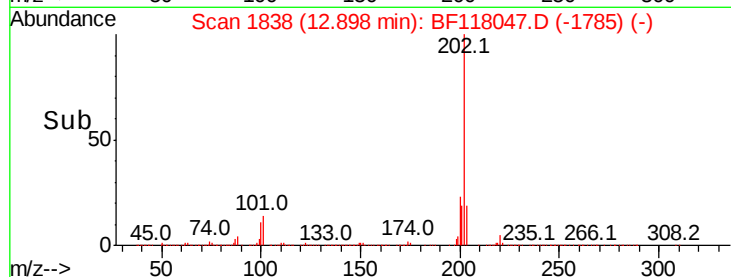
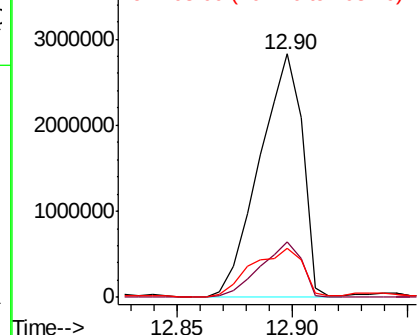


Abundance

Ion 202.00 (201.70 to 202.70): E

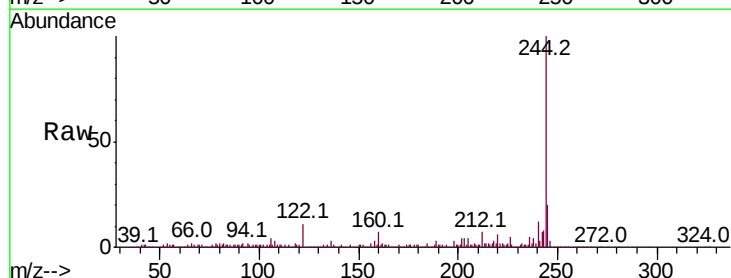
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79  
Terphenyl-d14  
Concen: 33.811 ng  
RT: 13.02 min Scan# 1859  
Delta R.T. -0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.3   | 9.5   |
| 122     | 10.9  | 9.4   | 14.2  |

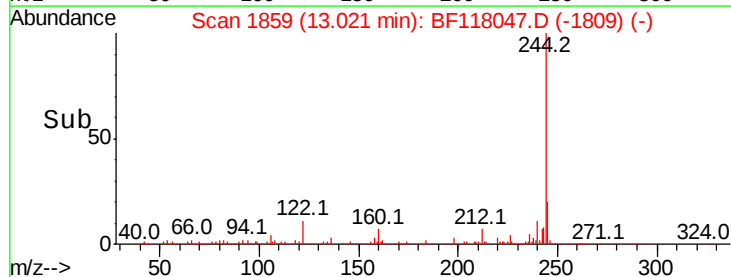
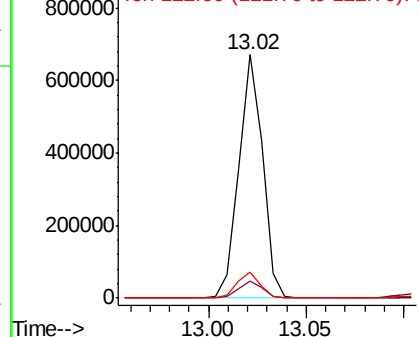


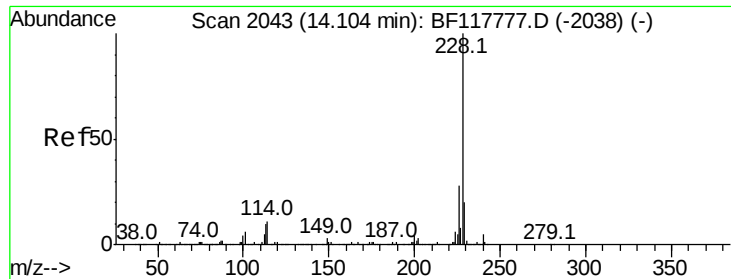
Abundance

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





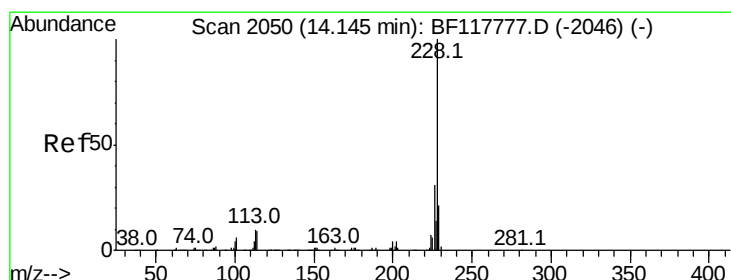
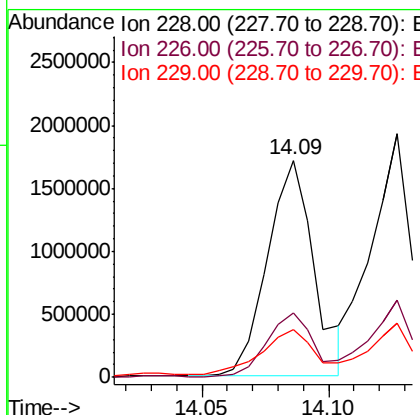
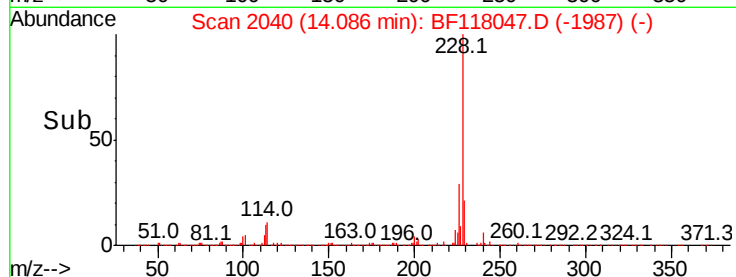
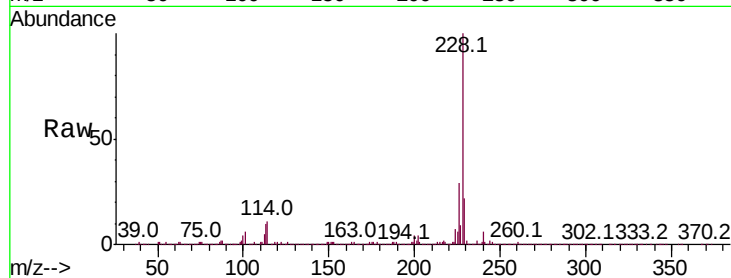
#81  
Benzo(a)anthracene  
Concen: 109.245 ng  
RT: 14.09 min Scan# 2040  
Delta R.T. 0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 22.2  | 33.2  |
| 229     | 21.8  | 15.9  | 23.9  |

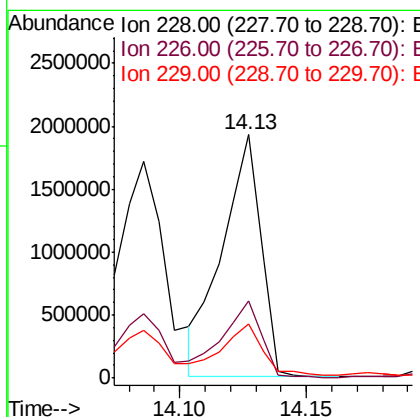
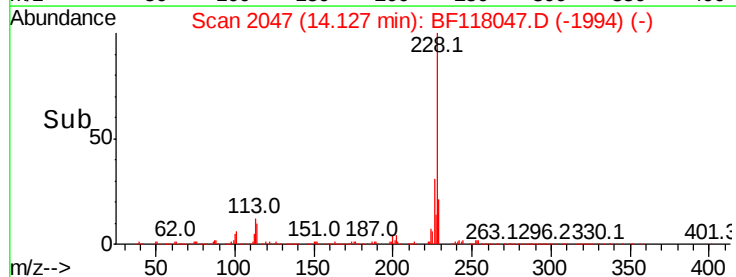
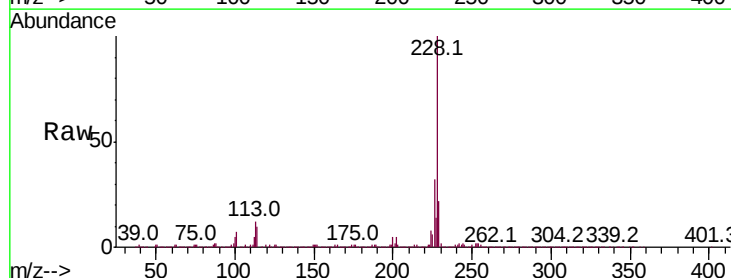
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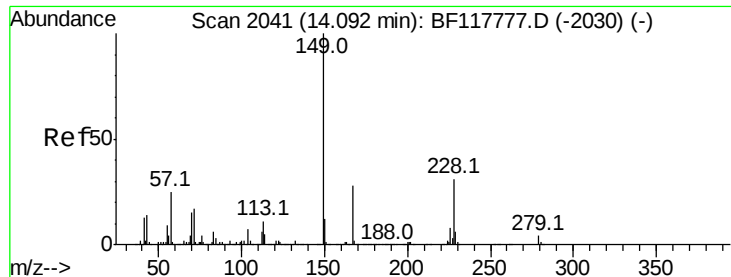
mohammad  
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#83  
Chrysene  
Concen: 104.769 ng  
RT: 14.13 min Scan# 2047  
Delta R.T. 0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 25.0  | 37.4  |
| 229     | 22.1  | 16.6  | 25.0  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 92.636 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

ClientSampleId :

WS-112019-2-5-COMP-B4

Tot Ion:149 Resp: 1187944

Ion Ratio Lower Upper

149 100

167 27.2 22.2 33.2

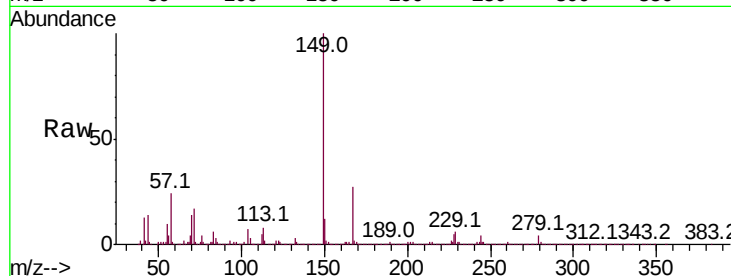
279 4.2 3.4 5.2

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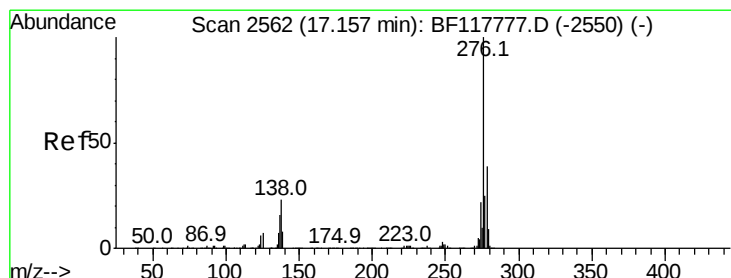
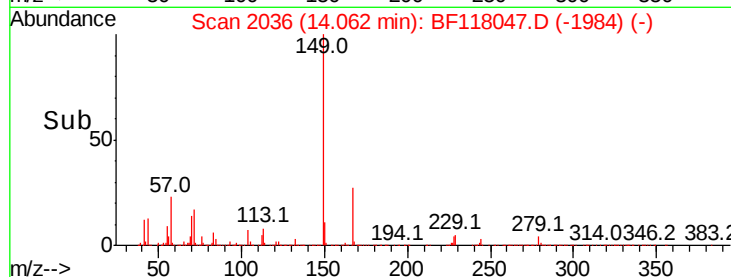
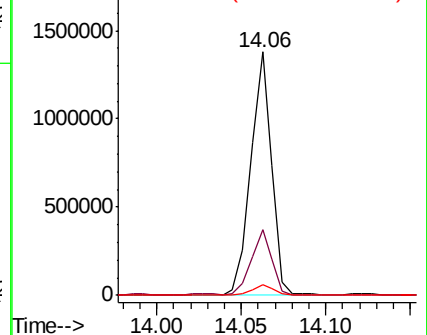
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 29.654 ng

RT: 17.13 min Scan# 2557

Delta R.T. 0.03 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

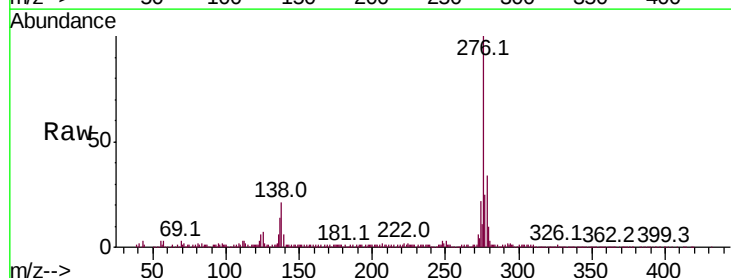
Tgt Ion:276 Resp: 492491

Ion Ratio Lower Upper

276 100

138 20.7 20.9 31.3#

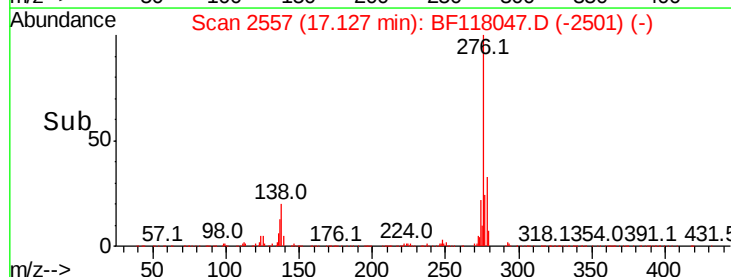
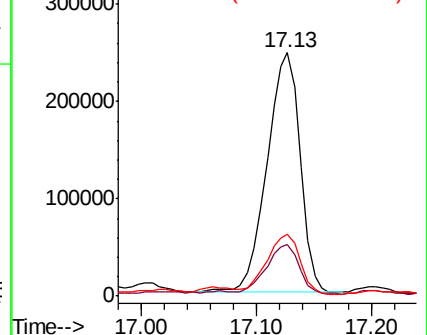
277 24.9 20.3 30.5

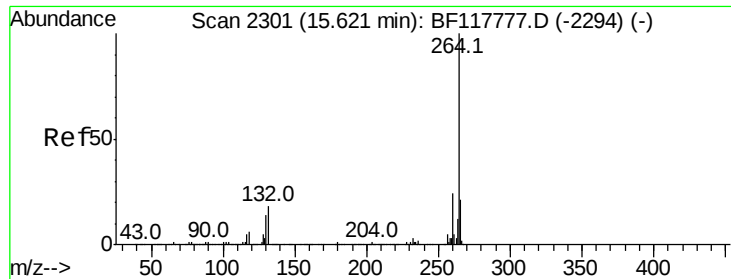


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.60 min Scan# 2298

Delta R.T. 0.02 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

Instrument :

BNA\_F

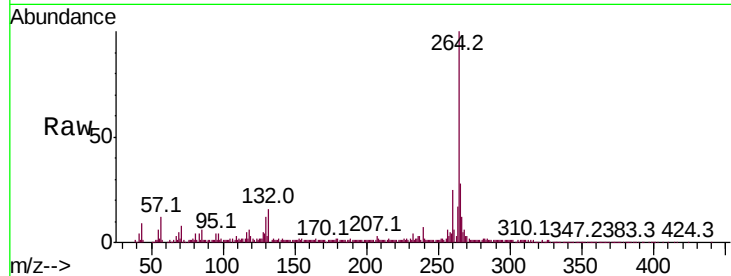
ClientSampleId :

WS-112019-2-5-COMP-B4

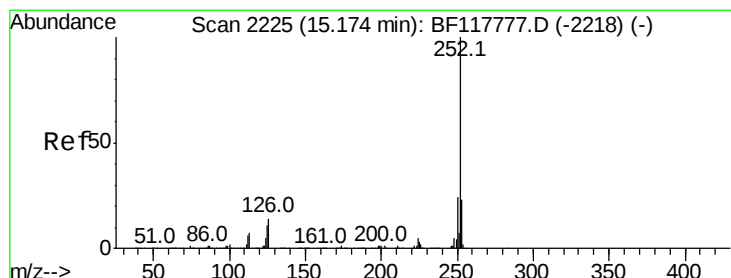
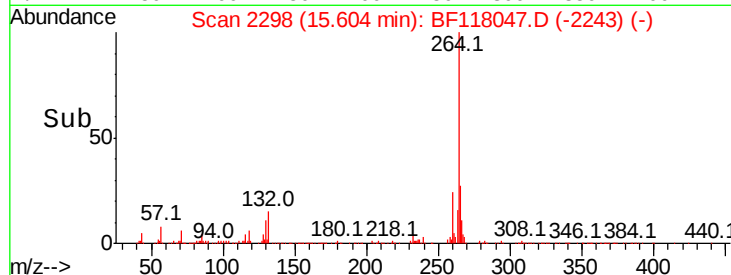
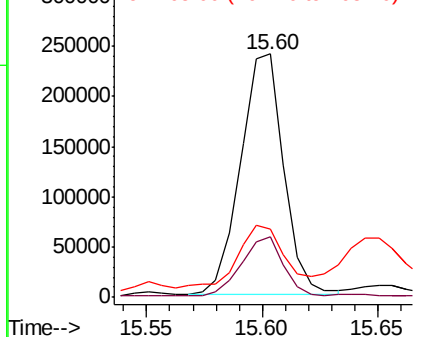
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 310675 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 25.1  | 19.4  | 29.0   |
| 265       | 28.2  | 17.1  | 25.7#  |

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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: 91.017 ng m

RT: 15.16 min Scan# 2223

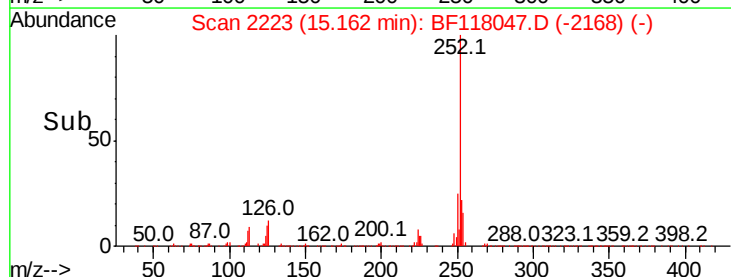
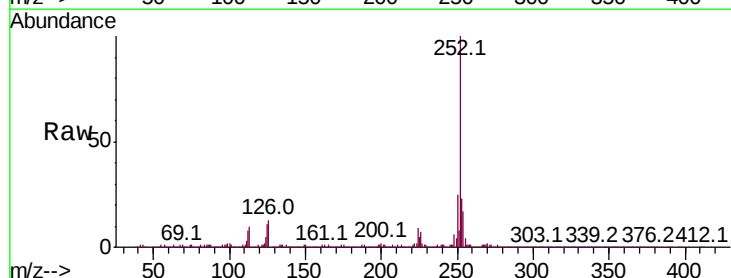
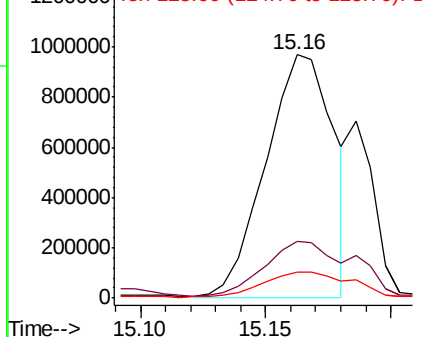
Delta R.T. 0.02 min

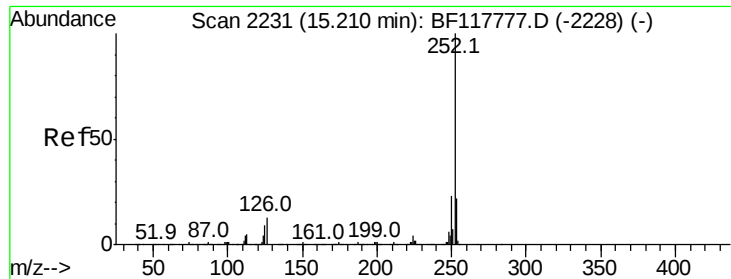
Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1837153 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 23.2  | 18.0  | 27.0    |
| 125       | 10.9  | 8.6   | 13.0    |

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: 26.098 ng m

RT: 15.19 min Scan# 2227

Delta R.T. 0.01 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

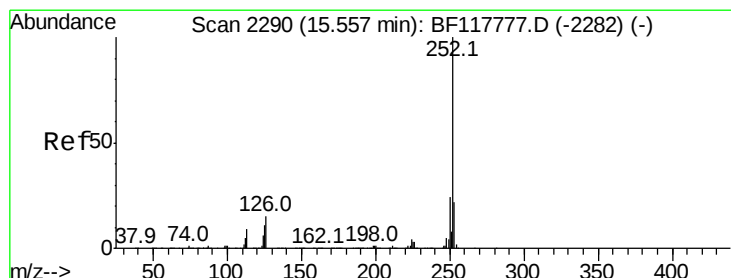
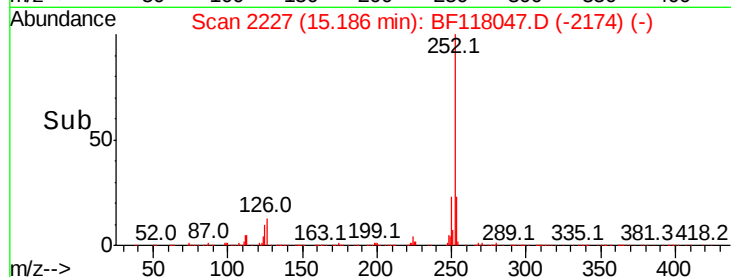
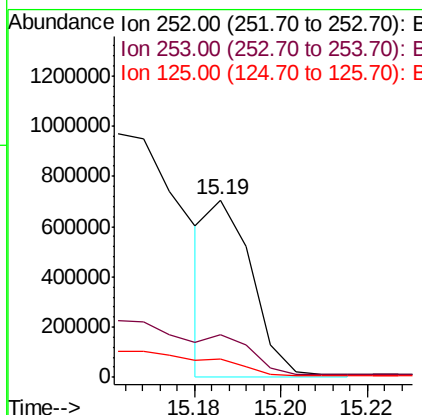
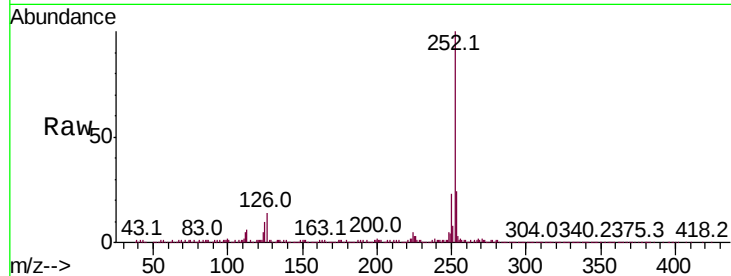
Instrument :  
BNA\_F

ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.5  | 26.3  |
| 125     | 10.4  | 7.9   | 11.9  |

Manual Integrations  
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11/29/2019 8:53:43 AM



#90

Benzo(a)pyrene

Concen: 75.332 ng

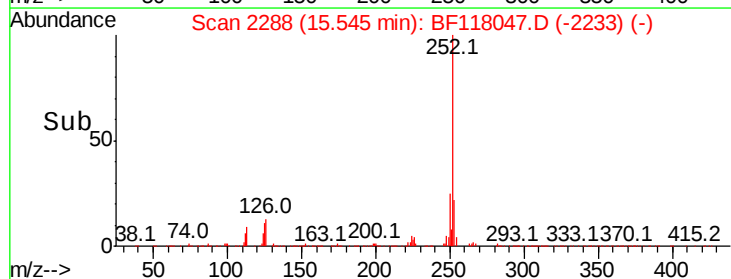
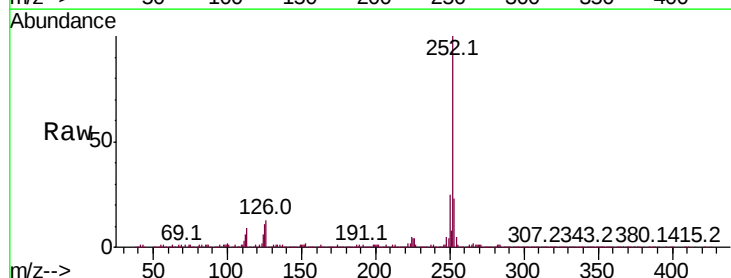
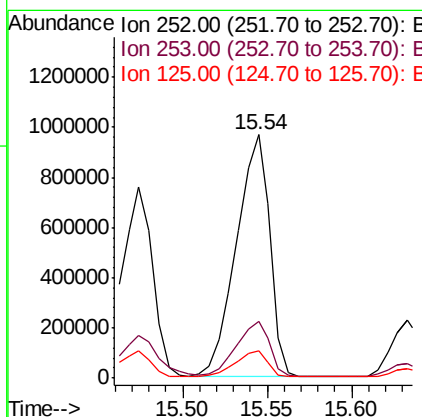
RT: 15.54 min Scan# 2288

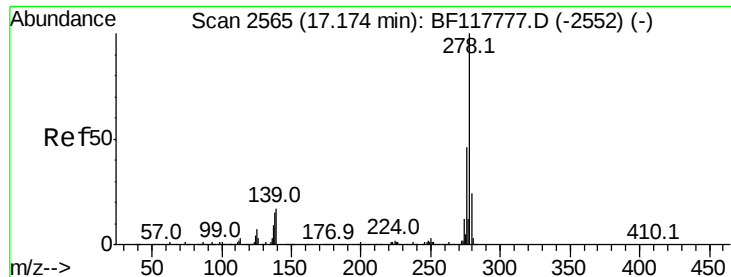
Delta R.T. 0.02 min

Lab File: BF118047.D

Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.8  | 26.6  |
| 125     | 11.1  | 9.2   | 13.8  |





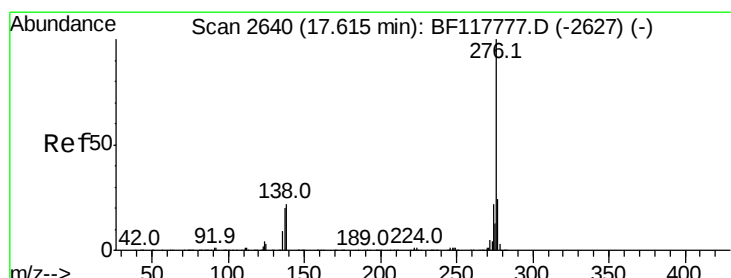
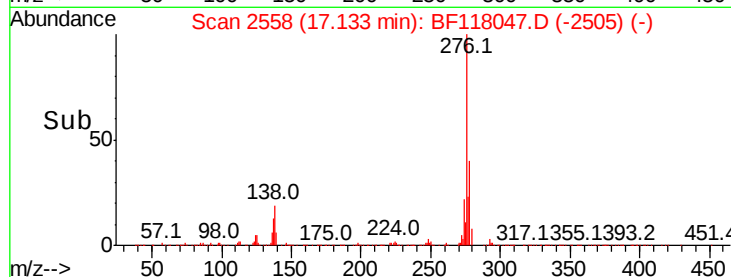
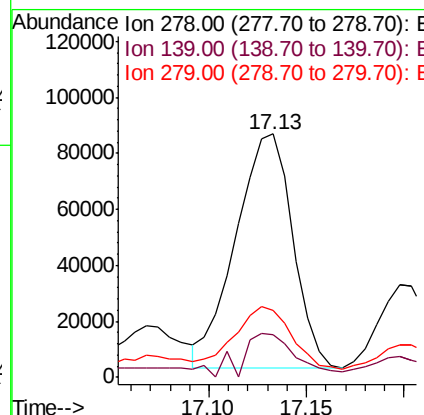
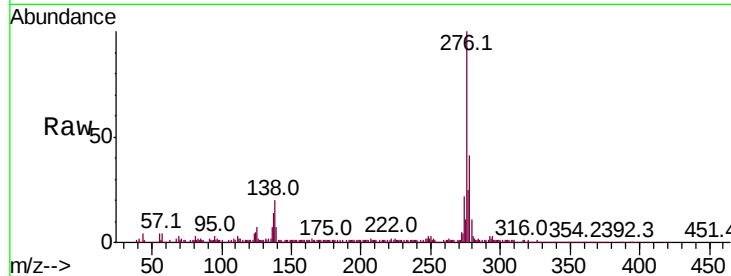
#91  
Dibenzo(a,h)anthracene  
Concen: 11.036 ng  
RT: 17.13 min Scan# 2558  
Delta R.T. 0.01 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

Instrument :  
BNA\_F  
ClientSampleId :  
WS-112019-2-5-COMP-B4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.4  | 13.8  | 20.8  |
| 279     | 27.5  | 19.6  | 29.4  |

Manual Integrations  
APPROVED

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11/29/2019 8:53:43 AM



#92  
Benzo(g,h,i)perylene  
Concen: 31.475 ng  
RT: 17.59 min Scan# 2635  
Delta R.T. 0.03 min  
Lab File: BF118047.D  
Acq: 27 Nov 2019 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.2  | 18.9  | 28.3  |
| 138     | 21.3  | 17.4  | 26.2  |

