

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
 Data File : BF115685.D  
 Acq On : 19 Jul 2019 21:22  
 Operator : HP/JU  
 Sample : K3881-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-SB-C-1-071719

Manual Integrations  
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 7/22/2019 10:01:46 AM

Quant Time: Jul 20 03:35:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 14:03:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 204032   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 835096   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.92  | 164  | 395392   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.40 | 188  | 637961   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 371993   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.52 | 264  | 346679   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 573103   | 45.95 | ng    | 0.00     |
| 7) Phenol-d6                | 6.51  | 99   | 1032745  | 65.25 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 652221   | 45.41 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.71 | 330  | 348439   | 75.50 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.24  | 172  | 1419247  | 62.83 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.99 | 244  | 1442868  | 71.57 | ng    | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 50) Dimethylphthalate      | 9.63  | 163  | 203568   | 6.843 | ng    | 98     |
| 71) Phenanthrene           | 11.43 | 178  | 75862    | 2.320 | ng    | 95     |
| 75) Fluoranthene           | 12.62 | 202  | 210188   | 6.082 | ng    | 99     |
| 78) Pyrene                 | 12.84 | 202  | 193099   | 6.127 | ng    | 97     |
| 81) Benzo(a)anthracene     | 14.03 | 228  | 94824    | 3.869 | ng    | 95     |
| 83) Chrysene               | 14.07 | 228  | 98493    | 4.004 | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene | 16.99 | 276  | 54018    | 2.584 | ng    | 96     |
| 88) Benzo(b)fluoranthene   | 15.09 | 252  | 124994m  | 5.599 | ng    |        |
| 90) Benzo(a)pyrene         | 15.45 | 252  | 79763    | 4.157 | ng    | 97     |
| 92) Benzo(g,h,i)perylene   | 17.44 | 276  | 55050    | 3.277 | ng    | 99     |

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

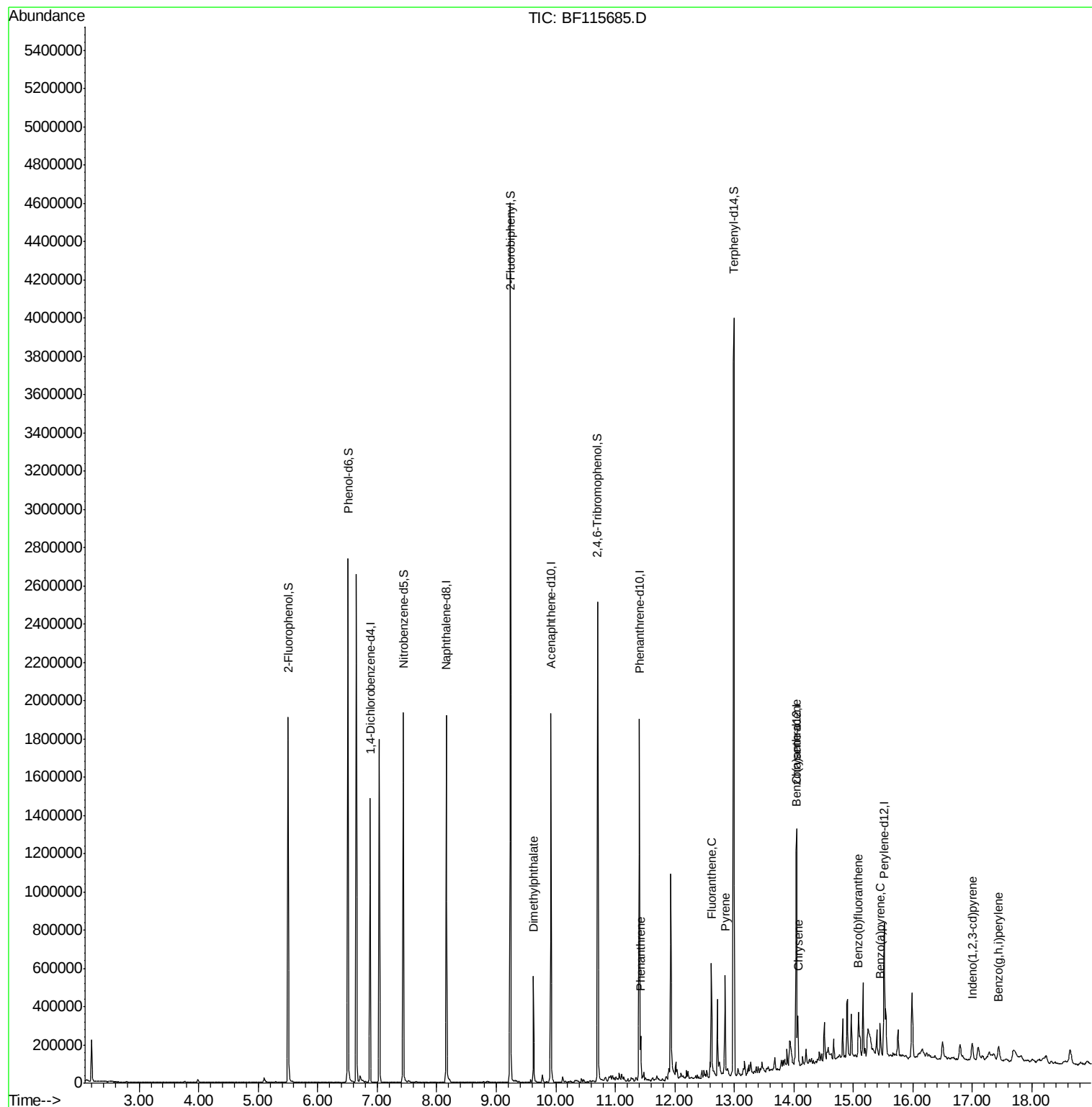
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115685.D  
Acq On : 19 Jul 2019 21:22  
Operator : HP/JU  
Sample : K3881-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

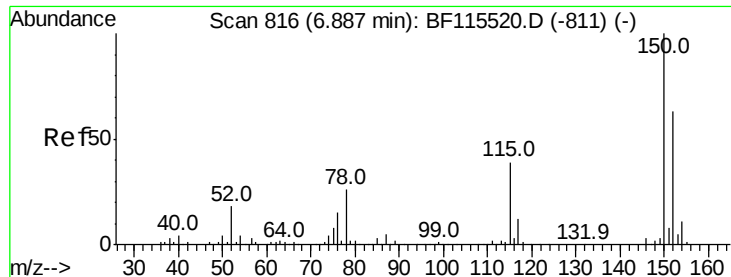
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-SB-C-1-071719

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7/22/2019 10:01:46 AM

Quant Time: Jul 20 03:35:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 14:03:52 2019  
Response via : Initial Calibration





#1

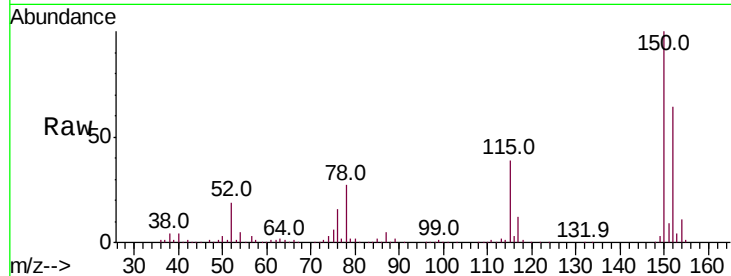
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-SB-C-1-071719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.9 | 129.7 | 194.5 |
| 115     | 60.8  | 48.2  | 72.4  |

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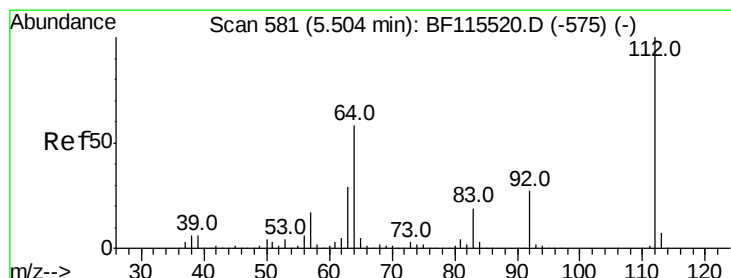
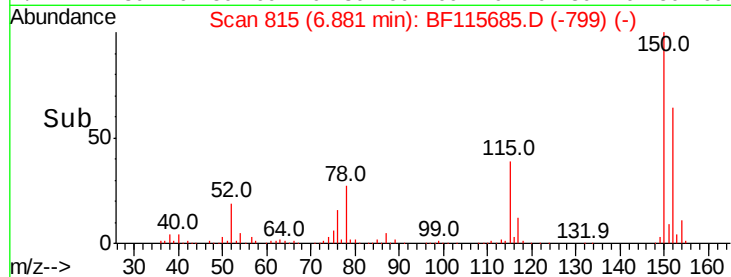
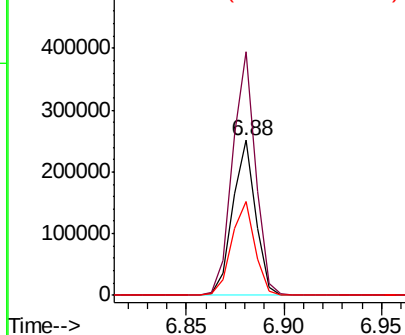


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

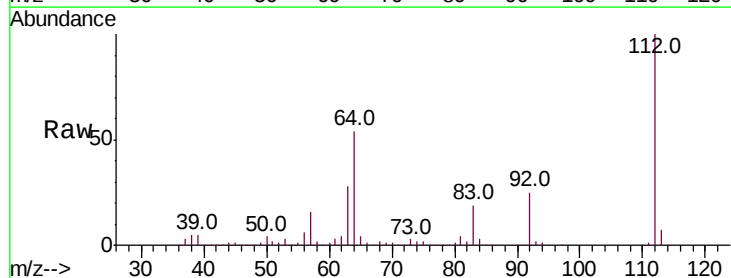
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 45.945 ng  
RT: 5.50 min Scan# 581  
Delta R.T. -0.00 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.2  | 46.8  | 70.2  |
| 63      | 28.1  | 24.1  | 36.1  |

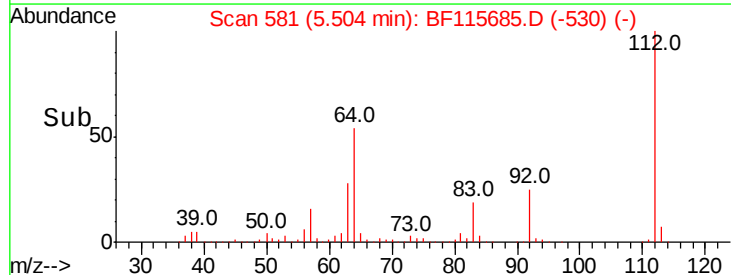
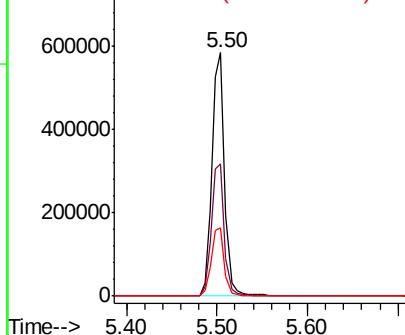


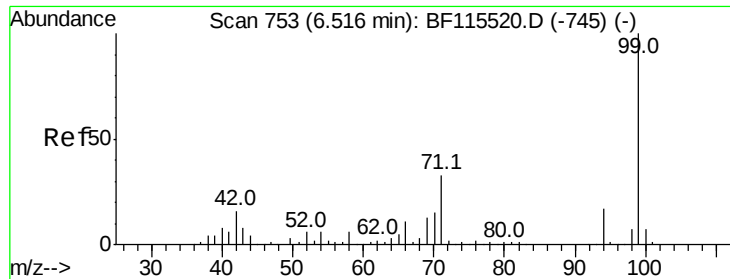
Abundance

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: 65.250 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

SUP-SB-C-1-071719

Tot Ion: 99 Resp: 1032745

Ion Ratio Lower Upper

99 100

42 16.3 13.6 20.4

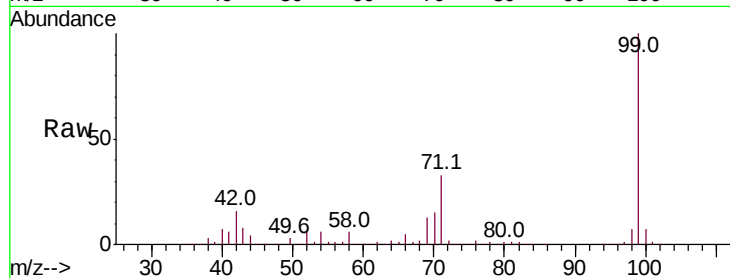
71 32.8 28.5 42.7

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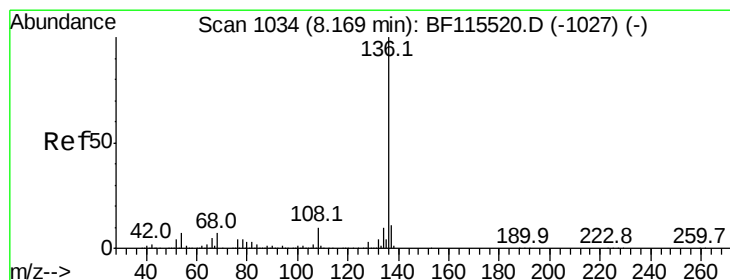
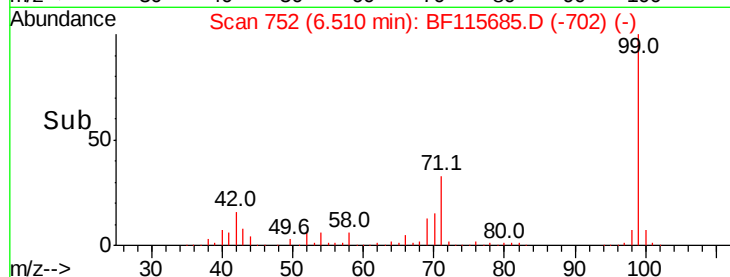
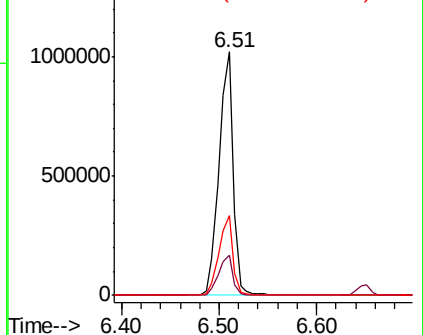
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Tgt Ion: 136 Resp: 835096

Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 7.0 5.6 8.4

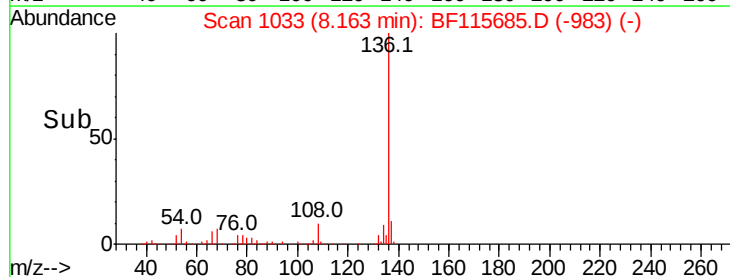
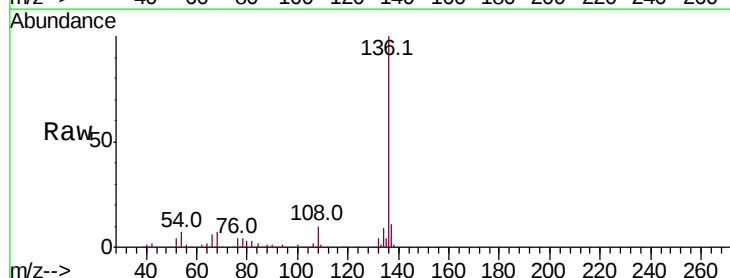
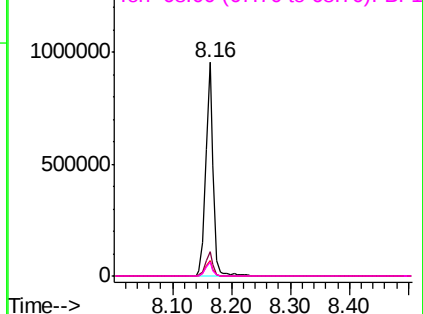
68 6.6 5.0 7.6

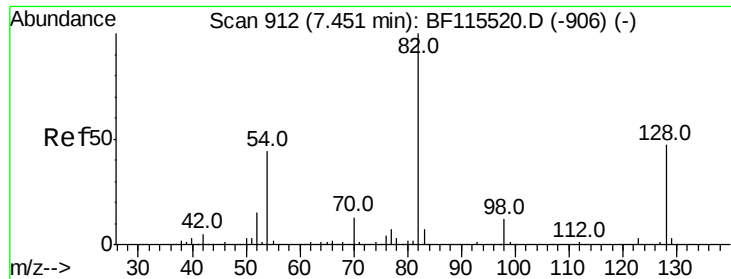
Abundance Ion 136.00 (135.70 to 136.70): E

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





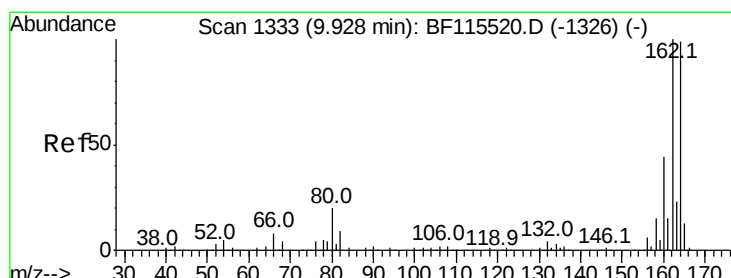
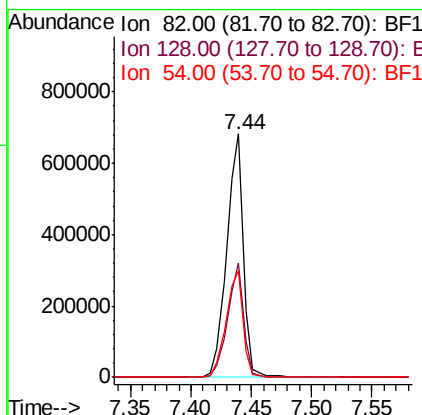
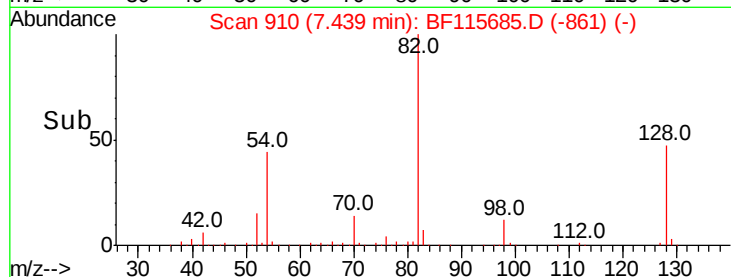
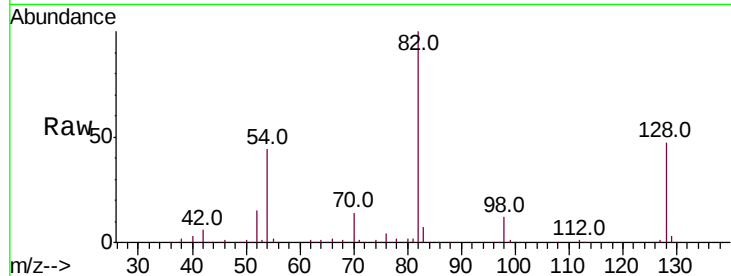
#23  
Nitrobenzene-d5  
Concen: 45.413 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-SB-C-1-071719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.1  | 38.6  | 57.8  |
| 54      | 43.9  | 35.6  | 53.4  |

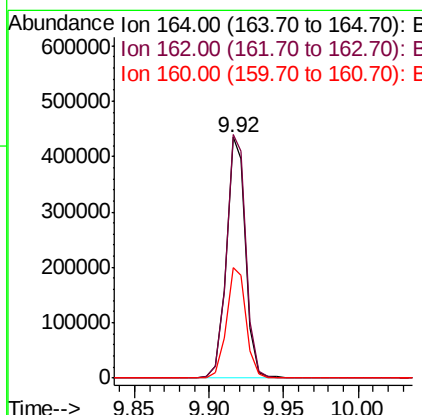
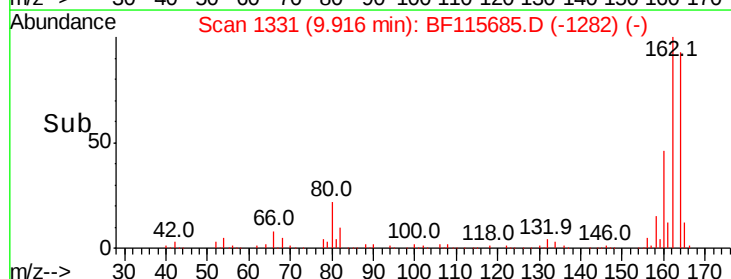
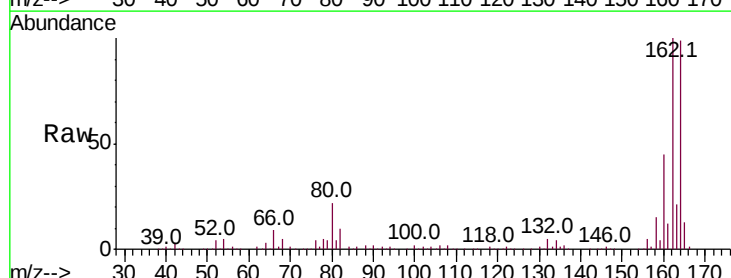
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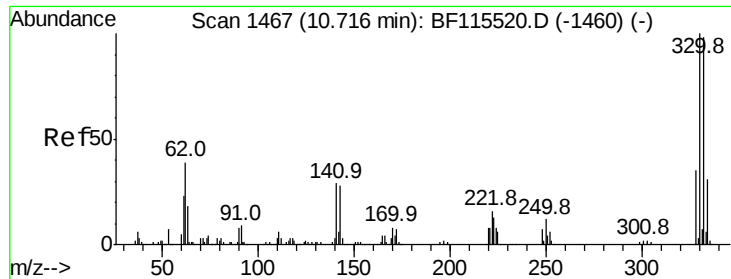
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.2 | 82.9  | 124.3 |
| 160     | 46.0  | 36.8  | 55.2  |





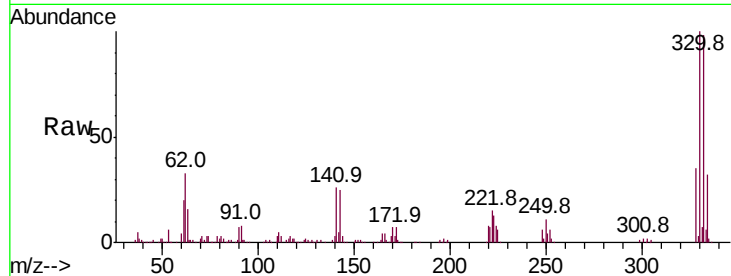
#42  
 2,4,6-Tribromophenol  
 Concen: 75.498 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF115685.D  
 Acq: 19 Jul 2019 21:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-SB-C-1-071719

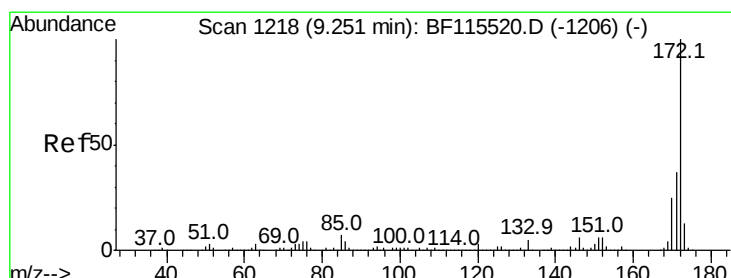
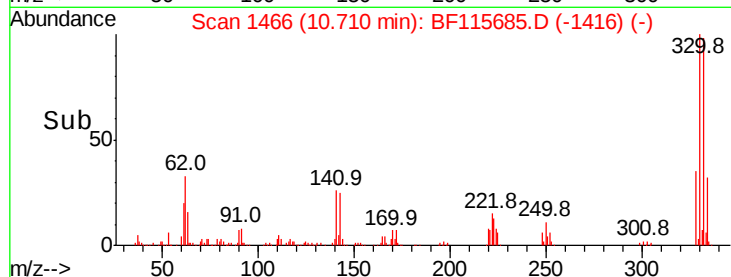
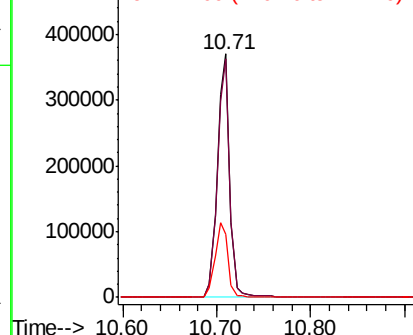
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.9  | 77.4  | 116.2 |
| 141     | 32.4  | 22.4  | 33.6  |

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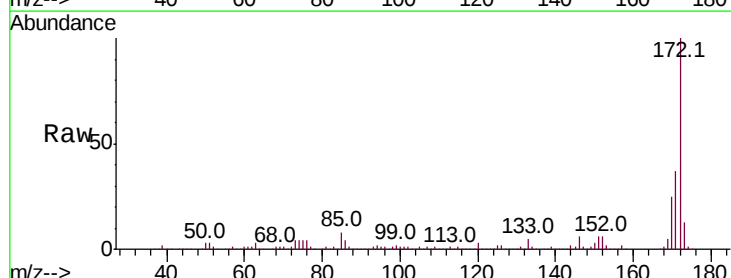


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

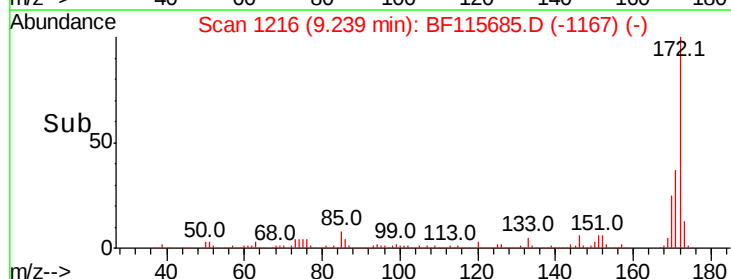
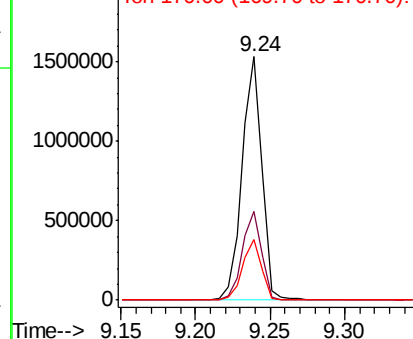


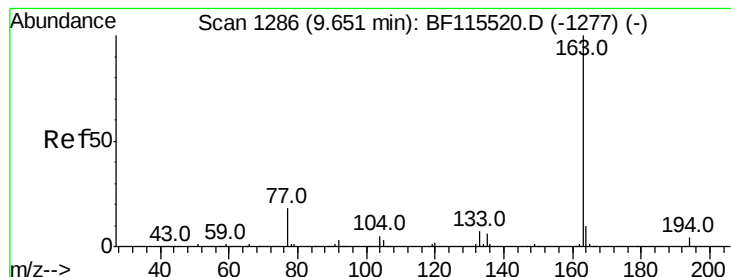
#45  
 2-Fluorobiphenyl  
 Concen: 62.826 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF115685.D  
 Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 30.6  | 46.0  |
| 170     | 24.7  | 20.5  | 30.7  |



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: 6.843 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Instrument :

BNA\_F

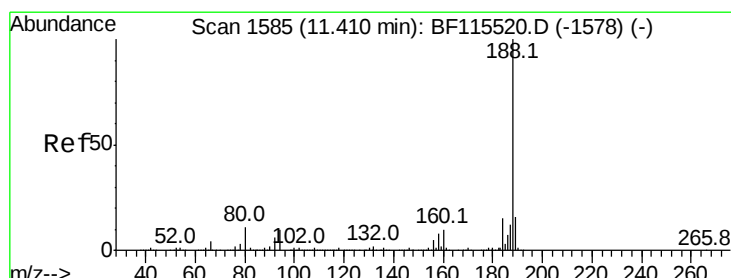
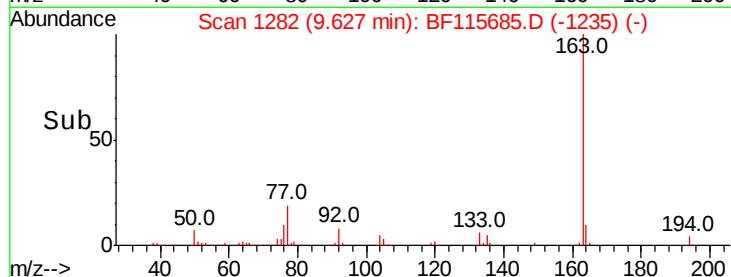
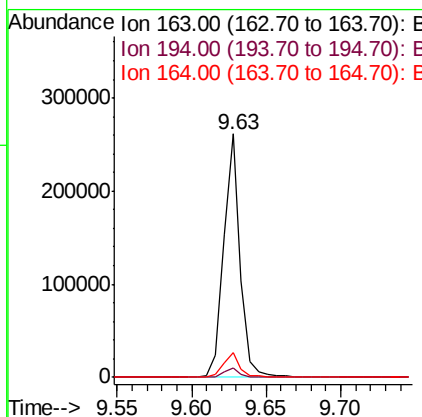
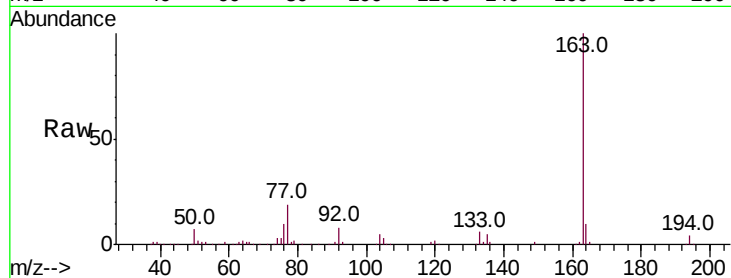
ClientSampleId :

SUP-SB-C-1-071719

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 203568 |       |       |
| 194     | 3.9   |        | 3.3   | 4.9   |
| 164     | 9.9   |        | 8.7   | 13.1  |

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#64

Phenanthrene-d10

Concen: 20.000 ng

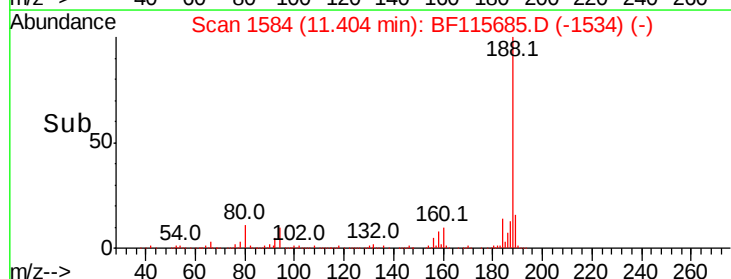
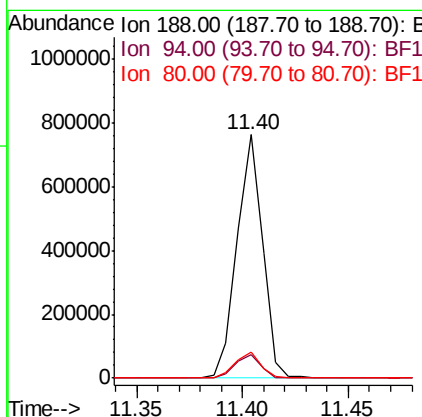
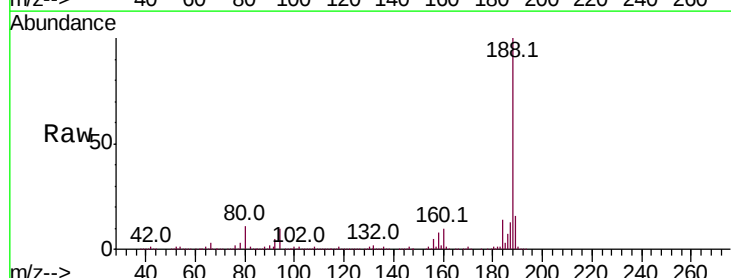
RT: 11.40 min Scan# 1584

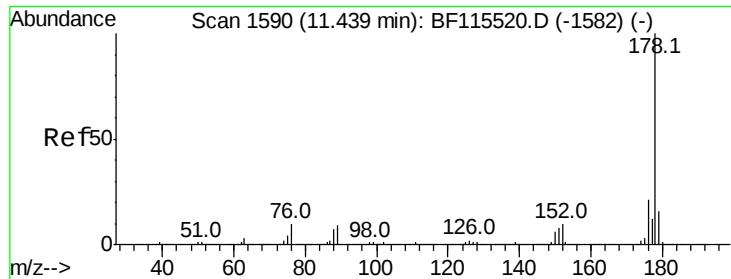
Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 637961 |       |       |
| 94      | 9.6   |        | 7.8   | 11.6  |
| 80      | 10.6  |        | 8.6   | 13.0  |





#71

Phenanthrene

Concen: 2.320 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Instrument :

BNA\_F

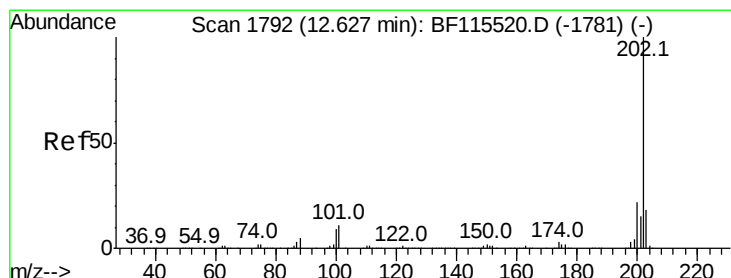
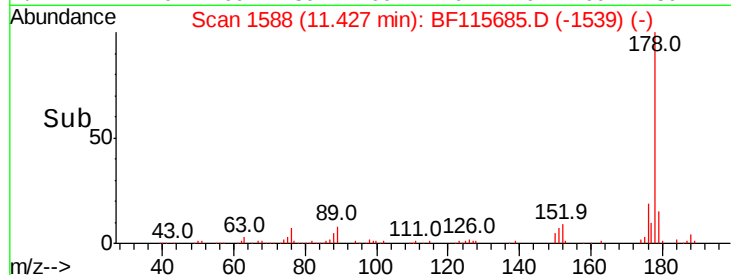
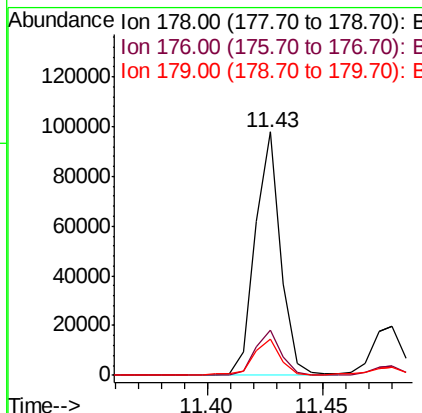
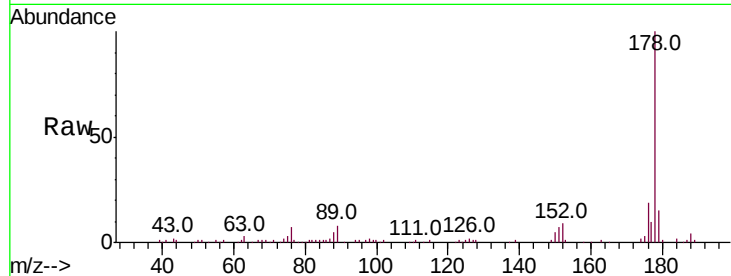
ClientSampleId :

SUP-SB-C-1-071719

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 75862 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.6  | 17.2  | 25.8  |
| 179       | 14.8  | 13.5  | 20.3  |

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#75

Fluoranthene

Concen: 6.082 ng

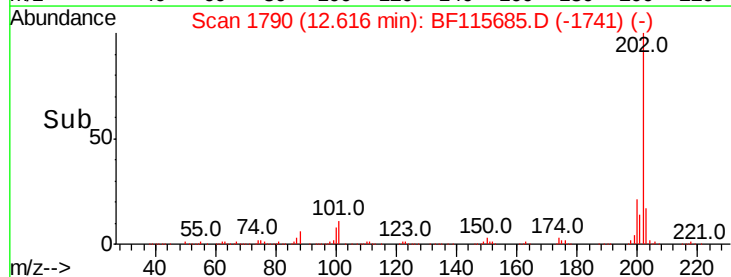
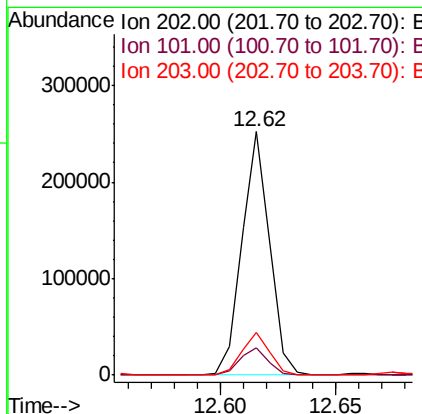
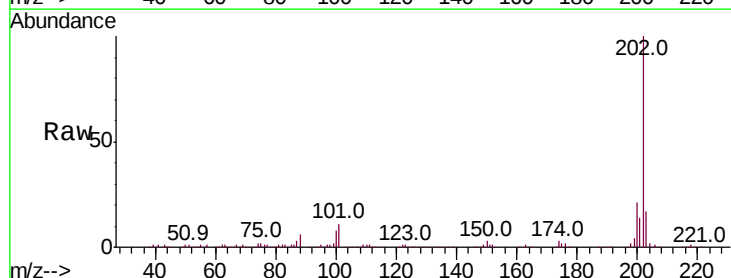
RT: 12.62 min Scan# 1790

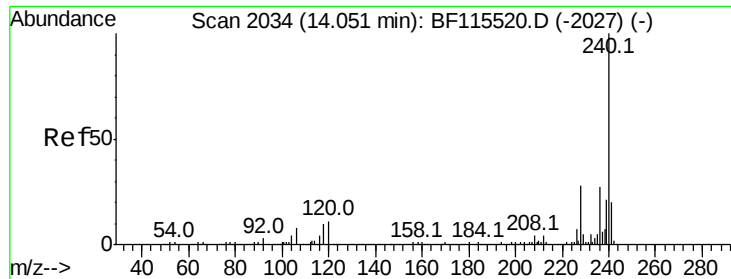
Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 210188 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.3  | 0.0   | 31.4   |
| 203       | 17.5  | 0.0   | 38.1   |





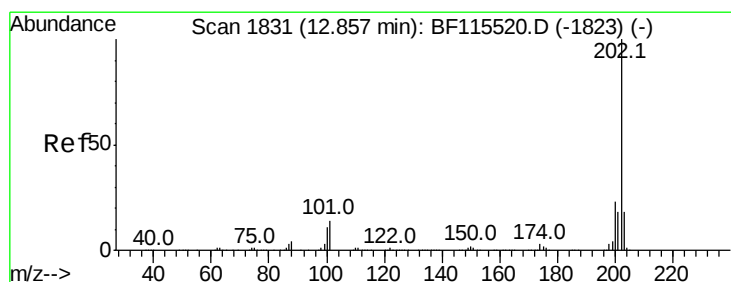
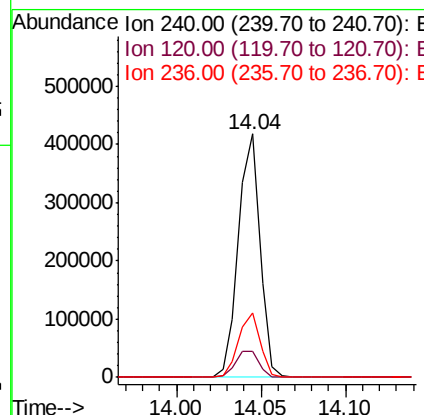
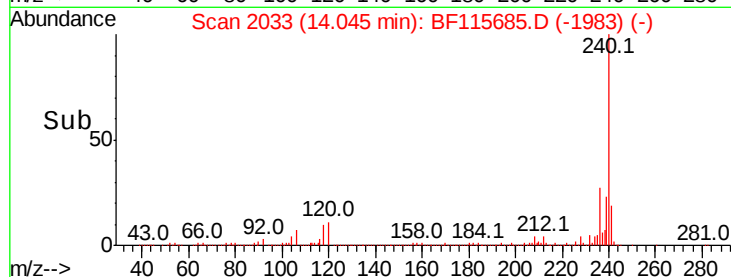
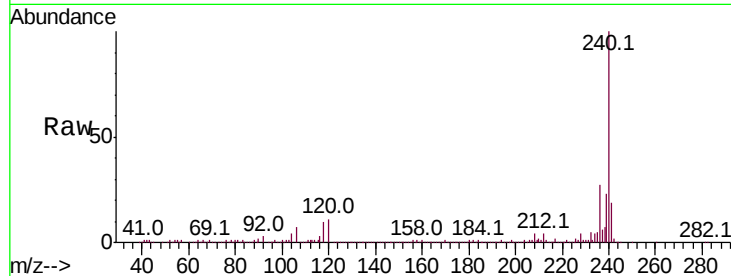
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF115685.D  
 Acq: 19 Jul 2019 21:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-SB-C-1-071719

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 10.8  | 8.6  | 13.0  |       |
| 236     | 26.7  | 21.3 | 31.9  |       |

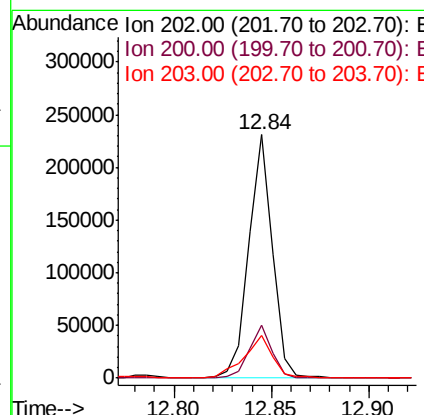
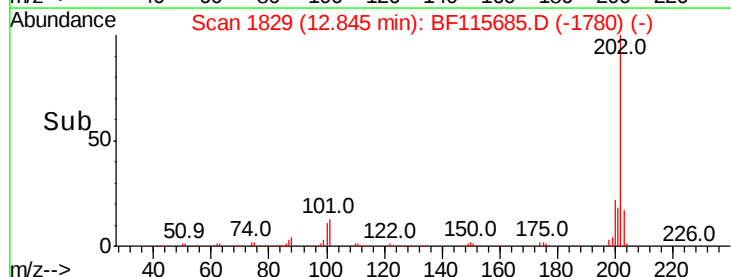
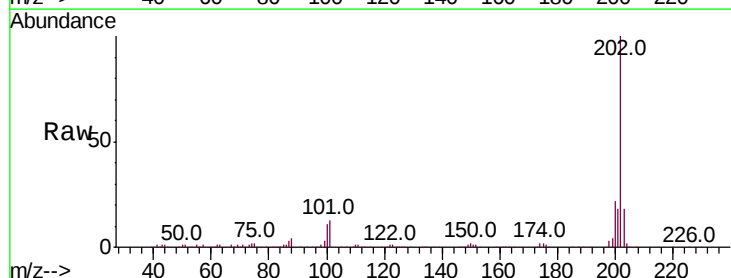
Manual Integrations  
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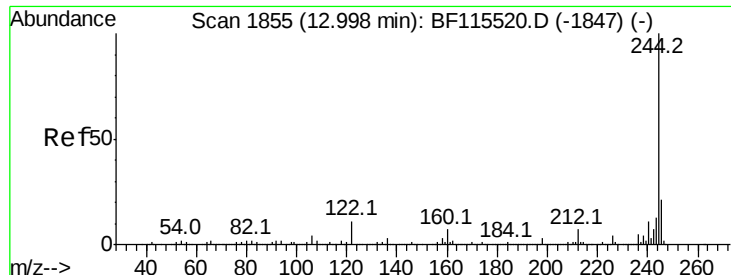
mohammad  
 7/22/2019 10:01:46 AM



#78  
 Pyrene  
 Concen: 6.127 ng  
 RT: 12.84 min Scan# 1829  
 Delta R.T. -0.01 min  
 Lab File: BF115685.D  
 Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 21.6  | 18.7 | 28.1  |       |
| 203     | 17.7  | 15.2 | 22.8  |       |





#79

Terphenyl-d14

Concen: 71.569 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Instrument :

BNA\_F

ClientSampleId :

SUP-SB-C-1-071719

Tot Ion:244 Resp: 1442868

Ion Ratio Lower Upper

244 100

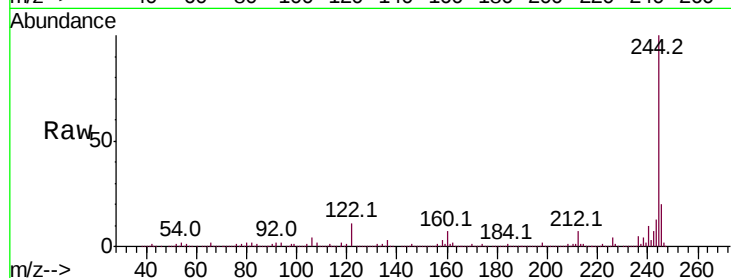
212 6.9 6.0 9.0

122 10.7 8.6 12.8

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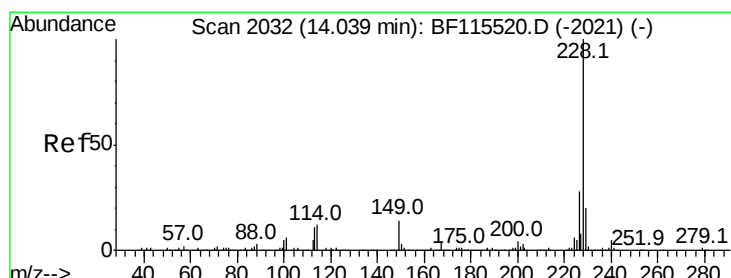
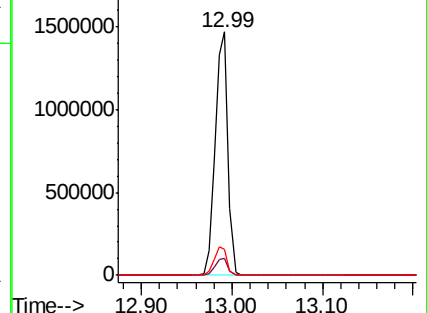
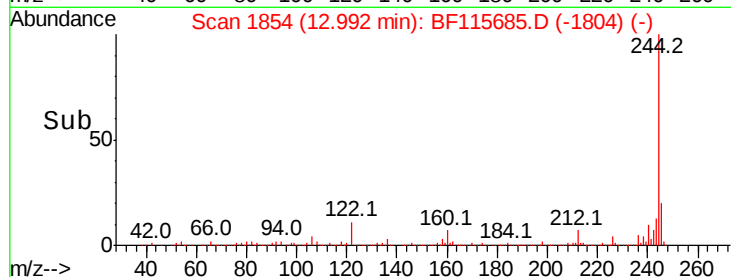
7/22/2019 10:01:46 AM



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: 3.869 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

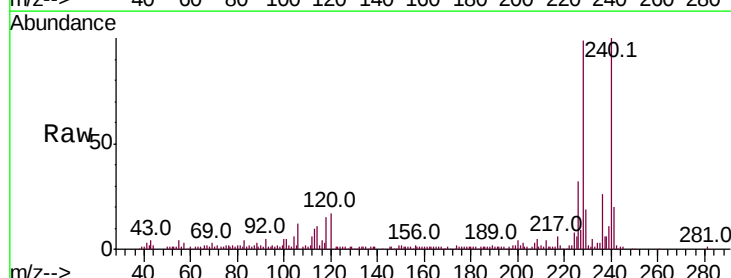
Tgt Ion:228 Resp: 94824

Ion Ratio Lower Upper

228 100

226 32.0 23.4 35.0

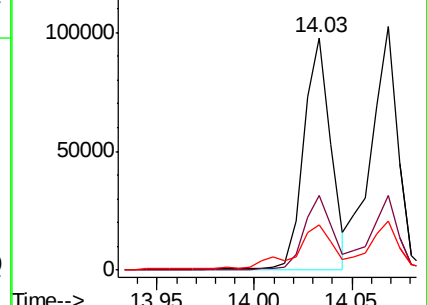
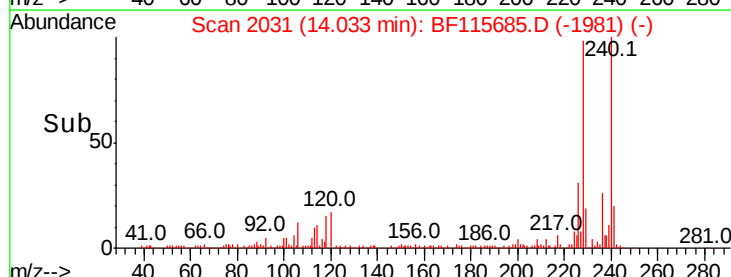
229 19.7 17.2 25.8

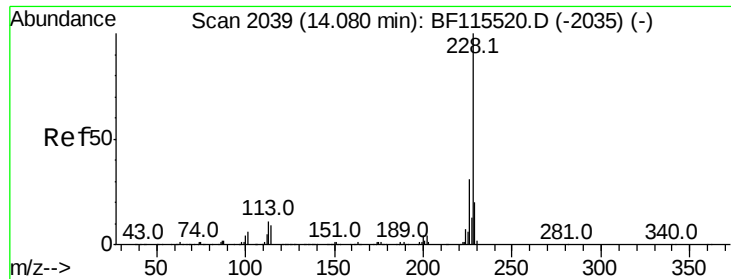


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





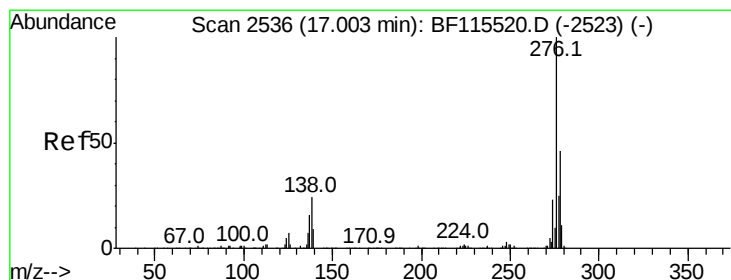
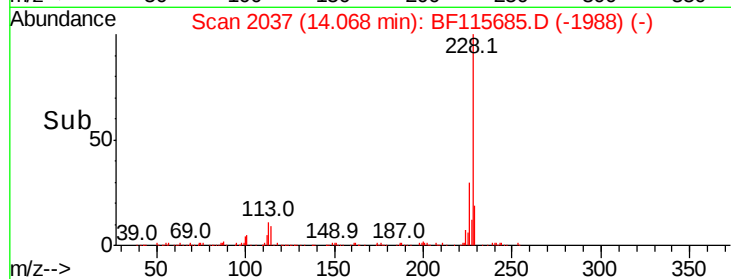
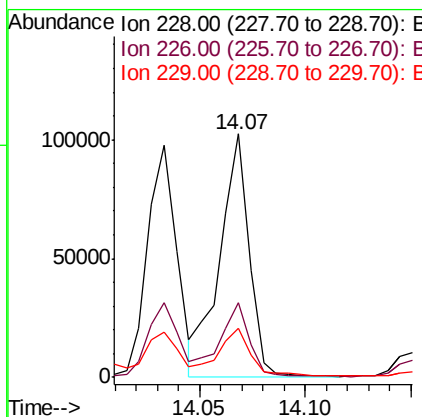
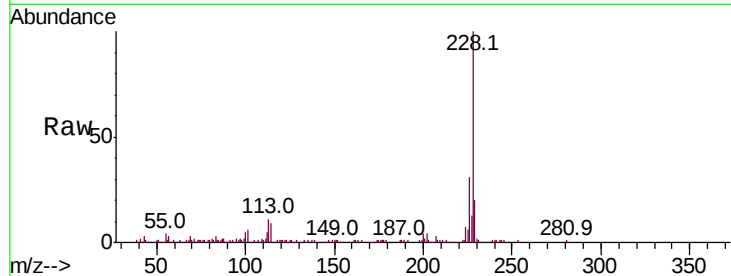
#83  
Chrysene  
Concen: 4.004 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-SB-C-1-071719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 25.7  | 38.5  |
| 229     | 20.4  | 16.6  | 25.0  |

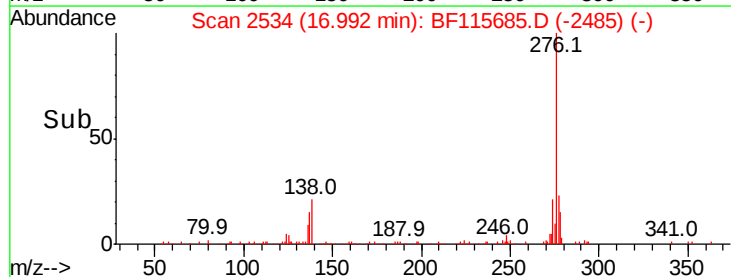
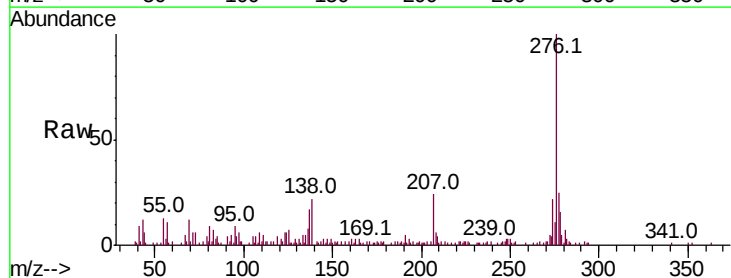
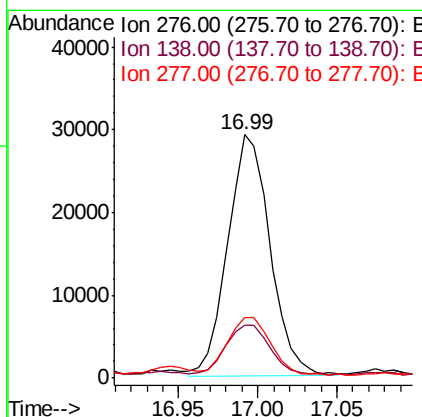
Manual Integrations  
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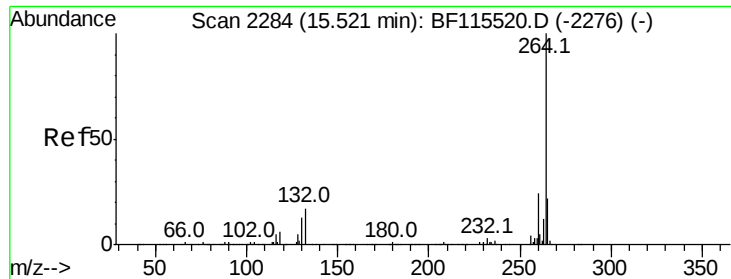
mohammad  
7/22/2019 10:01:46 AM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.584 ng  
RT: 16.99 min Scan# 2534  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.7  | 20.2  | 30.2  |
| 277     | 24.7  | 20.4  | 30.6  |





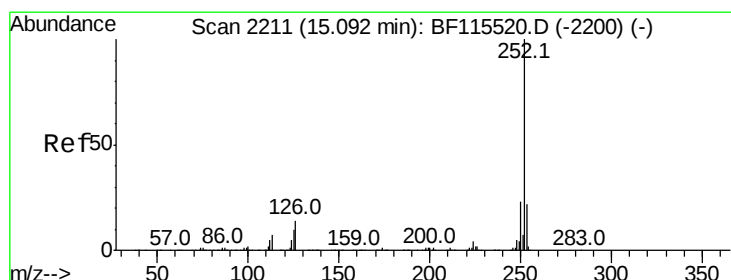
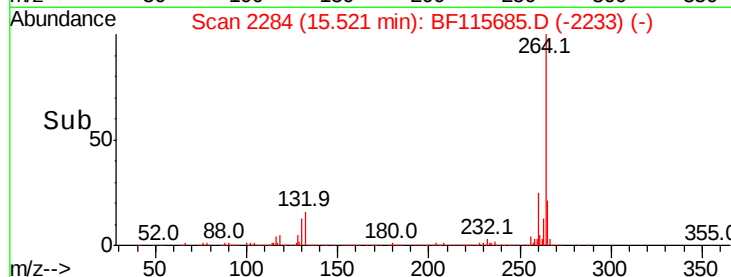
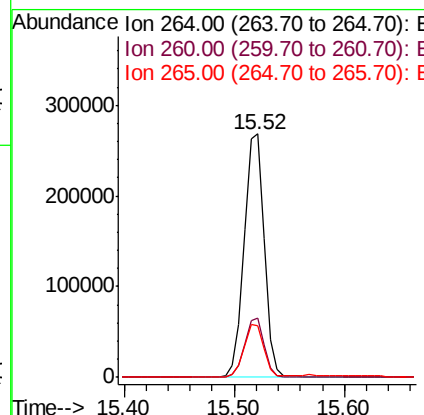
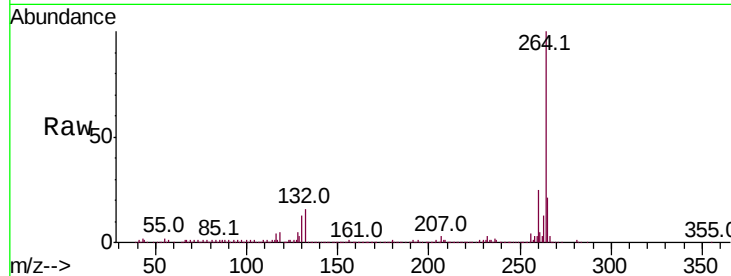
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. -0.00 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-SB-C-1-071719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.8  | 29.8  |
| 265     | 21.2  | 17.7  | 26.5  |

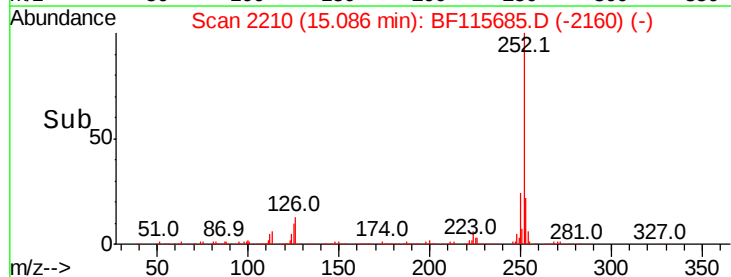
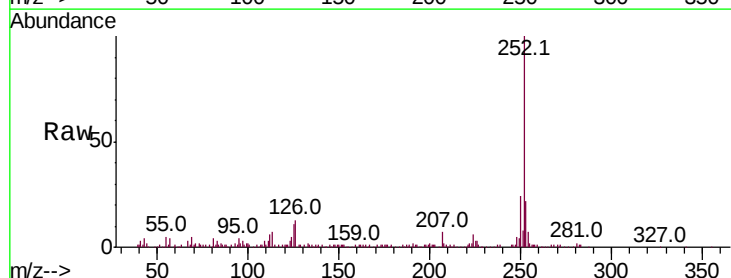
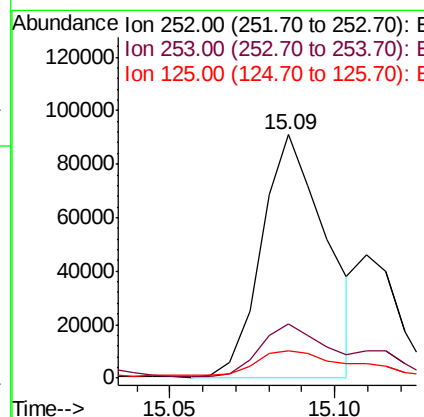
Manual Integrations  
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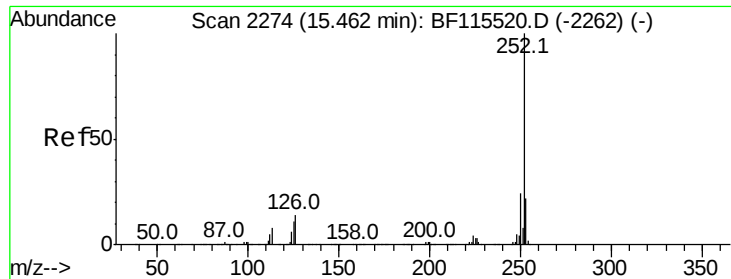
mohammad  
7/22/2019 10:01:46 AM



#88  
Benzo(b)fluoranthene  
Concen: 5.599 ng m  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BF115685.D  
Acq: 19 Jul 2019 21:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.1  | 27.1  |
| 125     | 11.0  | 9.0   | 13.4  |





#90

Benzo(a)pyrene

Concen: 4.157 ng

RT: 15.45 min Scan# 2272

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

Instrument :

BNA\_F

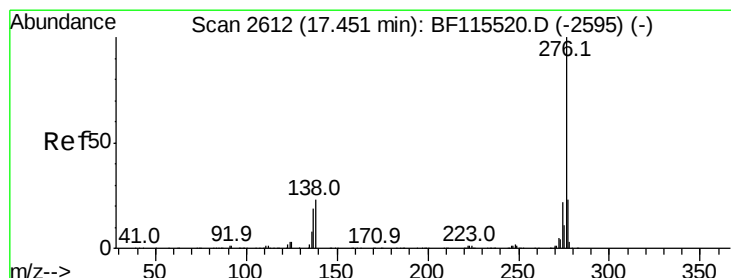
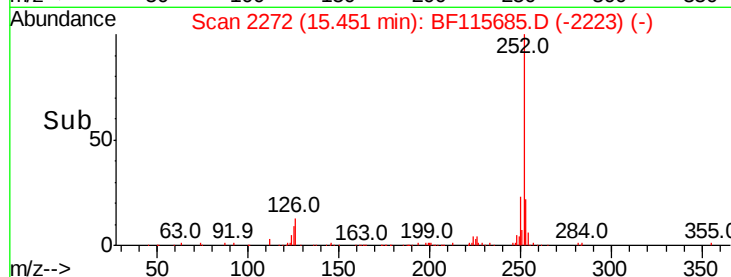
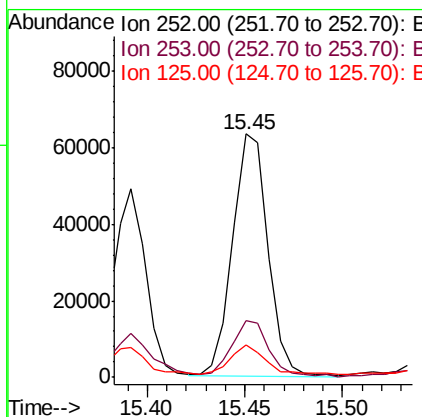
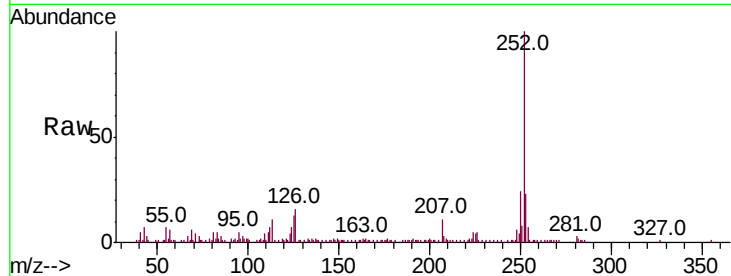
ClientSampleId :

SUP-SB-C-1-071719

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 79763 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.3  | 17.8  | 26.6  |
| 125       | 13.4  | 9.1   | 13.7  |

Manual Integrations  
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#92

Benzo(g,h,i)perylene

Concen: 3.277 ng

RT: 17.44 min Scan# 2610

Delta R.T. -0.01 min

Lab File: BF115685.D

Acq: 19 Jul 2019 21:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 55050 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 22.5  | 19.0  | 28.4  |
| 138       | 21.6  | 17.2  | 25.8  |

