

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\  
 Data File : BF115597.D  
 Acq On : 16 Jul 2019 15:16  
 Operator : HP/JU  
 Sample : K3626-05 4X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-071119-A

Manual Integrations  
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 7/17/2019 12:06:06 PM

Quant Time: Jul 16 15:44:52 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

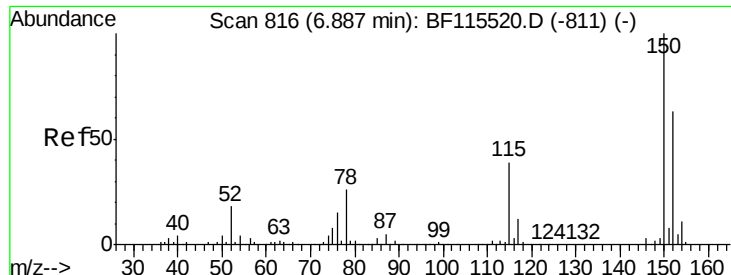
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 336269   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 1161459  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.92  | 164  | 598248   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.41 | 188  | 1156308  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.05 | 240  | 754747   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.53 | 264  | 958418   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.49  | 112 | 630130 | 30.65 | ng | -0.01 |
| 7) Phenol-d6                | 6.50  | 99  | 866988 | 33.24 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.43  | 82  | 519800 | 26.02 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330 | 208351 | 29.84 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 9.24  | 172 | 894558 | 26.17 | ng | -0.01 |
| 79) Terphenyl-d14           | 12.99 | 244 | 950226 | 23.23 | ng | -0.01 |

|                            |       |     |          |        |    |     |
|----------------------------|-------|-----|----------|--------|----|-----|
| Target Compounds           |       |     |          | Qvalue |    |     |
| 31) Naphthalene            | 8.18  | 128 | 457923   | 8.141  | ng | 96  |
| 37) 2-Methylnaphthalene    | 8.87  | 142 | 215803   | 5.788  | ng | 98  |
| 38) 1-Methylnaphthalene    | 8.97  | 142 | 202109   | 5.707  | ng | 97  |
| 49) Acenaphthylene         | 9.77  | 152 | 174805   | 3.029  | ng | 96  |
| 50) Dimethylphthalate      | 9.63  | 163 | 114342   | 2.540  | ng | 99  |
| 52) Acenaphthene           | 9.95  | 154 | 268556   | 7.209  | ng | 98  |
| 55) Dibenzofuran           | 10.12 | 168 | 480499   | 9.082  | ng | 97  |
| 58) Fluorene               | 10.46 | 166 | 540206   | 14.283 | ng | 99  |
| 71) Phenanthrene           | 11.45 | 178 | 3797667  | 64.073 | ng | 99  |
| 72) Anthracene             | 11.49 | 178 | 1225769  | 20.011 | ng | 99  |
| 73) Carbazole              | 11.63 | 167 | 551572   | 10.268 | ng | 98  |
| 75) Fluoranthene           | 12.63 | 202 | 3171733  | 50.639 | ng | 97  |
| 78) Pvrene                 | 12.86 | 202 | 2832151  | 44.290 | ng | 99  |
| 81) Benzo(a)anthracene     | 14.04 | 228 | 1515138  | 30.472 | ng | 100 |
| 83) Chrysene               | 14.07 | 228 | 1266489  | 25.373 | ng | 97  |
| 86) Indeno(1,2,3-cd)pyrene | 17.00 | 276 | 635454   | 14.985 | ng | 95  |
| 88) Benzo(b)fluoranthene   | 15.10 | 252 | 1518365m | 24.603 | ng |     |
| 89) Benzo(k)fluoranthene   | 15.12 | 252 | 502502m  | 9.133  | ng |     |
| 90) Benzo(a)pvrene         | 15.46 | 252 | 1077038  | 20.305 | ng | 98  |
| 91) Dibenzo(a,h)anthracene | 17.00 | 278 | 181678   | 3.901  | ng | 94  |
| 92) Benzo(g,h,i)perylene   | 17.45 | 276 | 590721   | 12.720 | ng | 97  |

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





#1

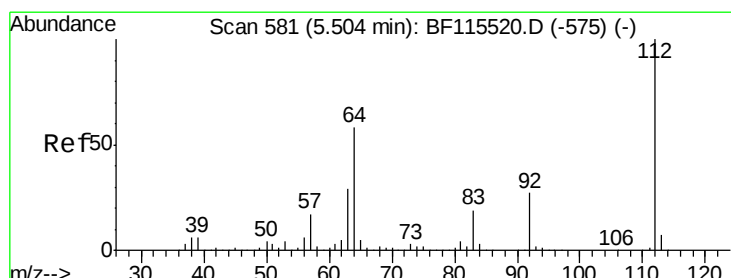
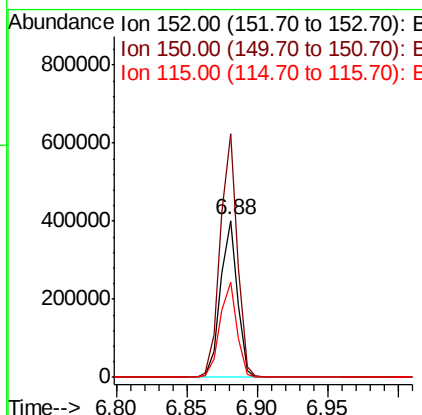
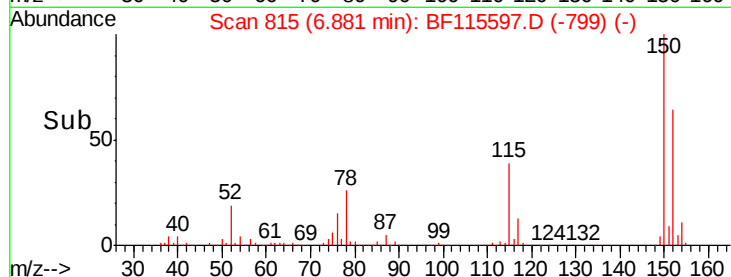
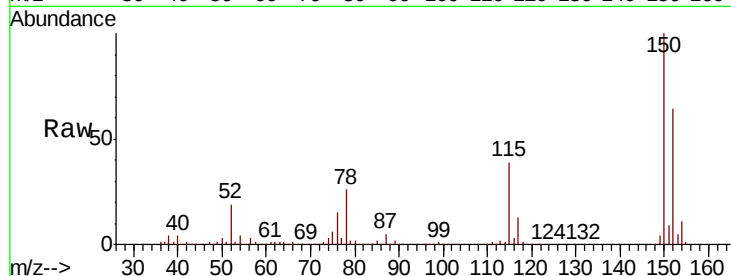
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.1 | 129.7 | 194.5 |
| 115     | 60.2  | 48.2  | 72.4  |

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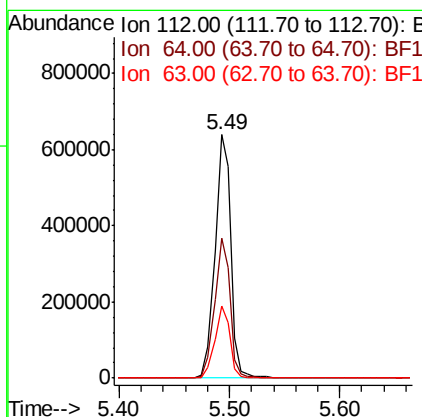
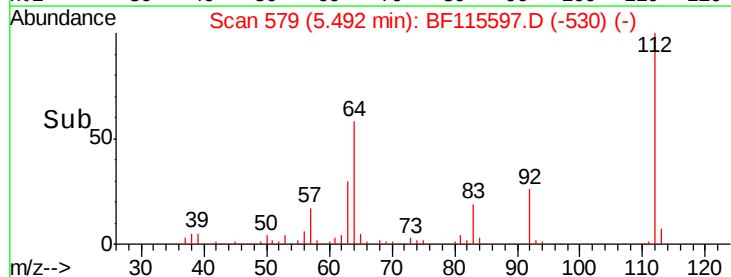
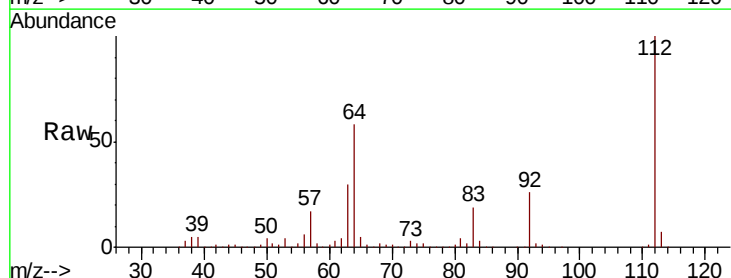
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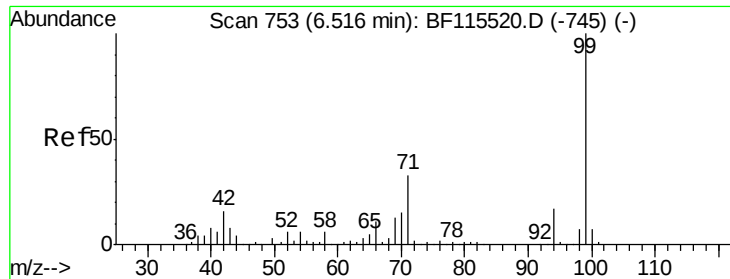


#5

2-Fluorophenol  
Concen: 30.651 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 46.8  | 70.2  |
| 63      | 29.7  | 24.1  | 36.1  |





#7

Phenol-d6

Concen: 33.236 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

Instrument :

BNA\_F

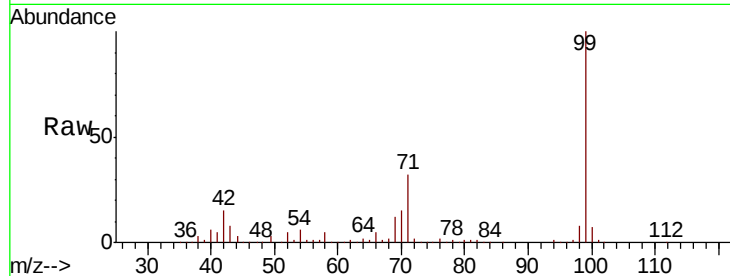
ClientSampleId :

SU-04-071119-A

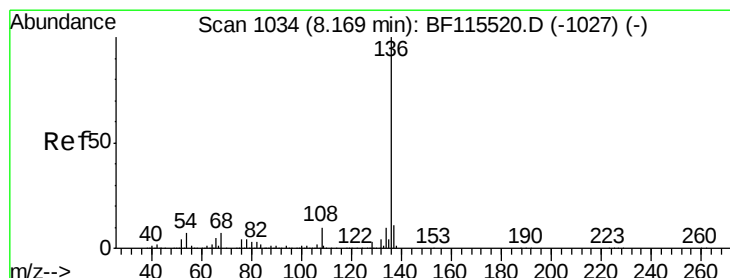
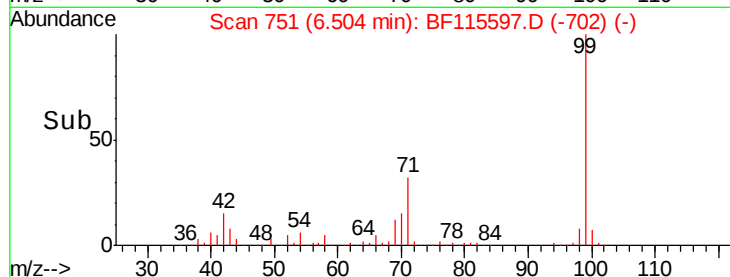
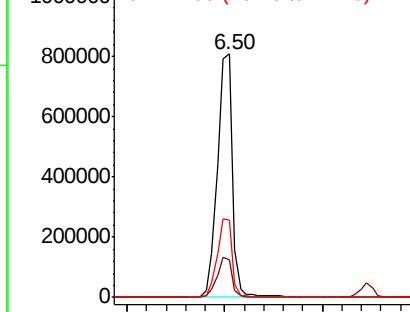
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 866988 |       |       |
| 42      | 15.2 | 13.6  | 20.4   |       |       |
| 71      | 31.6 | 28.5  | 42.7   |       |       |

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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

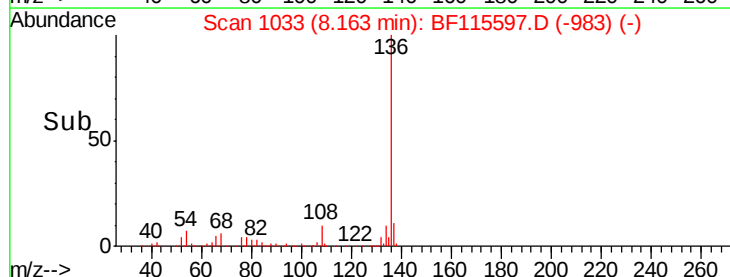
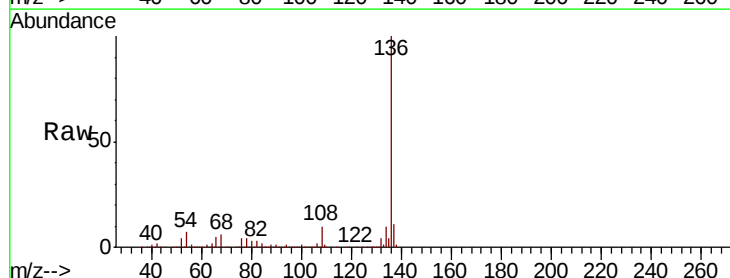
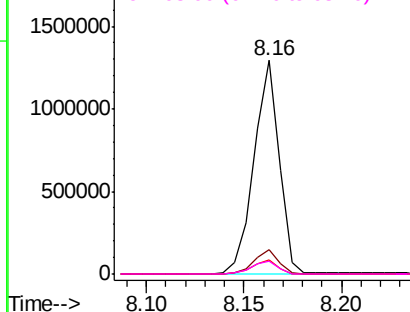
Delta R.T. -0.01 min

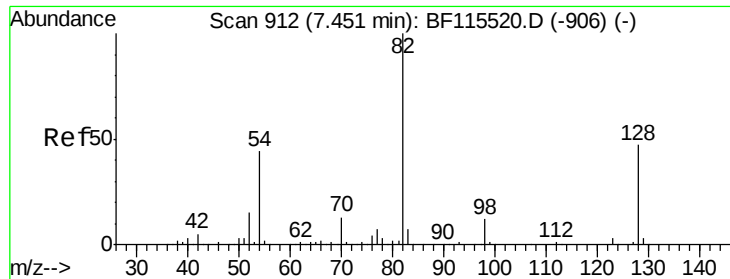
Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

| Tgt Ion | Ion  | Ratio | Resp    | Lower | Upper |
|---------|------|-------|---------|-------|-------|
| 136     | 100  |       | 1161459 |       |       |
| 137     | 11.3 | 9.0   | 13.4    |       |       |
| 54      | 6.6  | 5.6   | 8.4     |       |       |
| 68      | 6.3  | 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





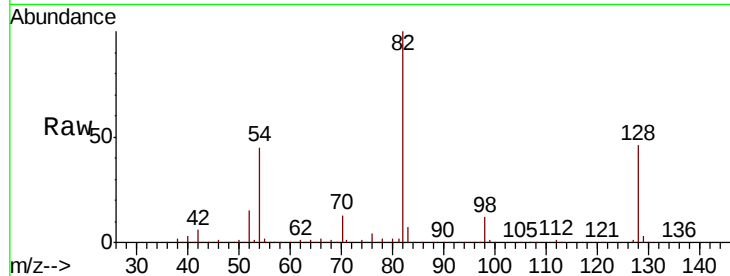
#23  
Nitrobenzene-d5  
Concen: 26.023 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 519800 |       |       |
| 128     | 46.3  |        | 38.6  | 57.8  |
| 54      | 44.8  |        | 35.6  | 53.4  |

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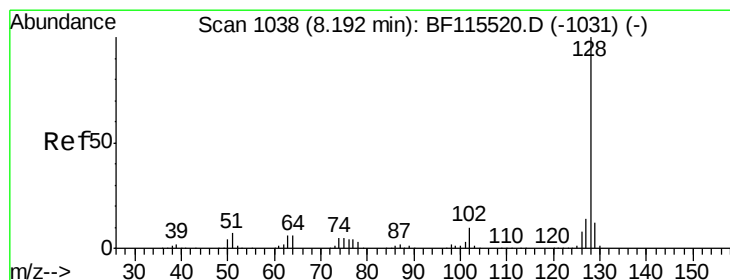
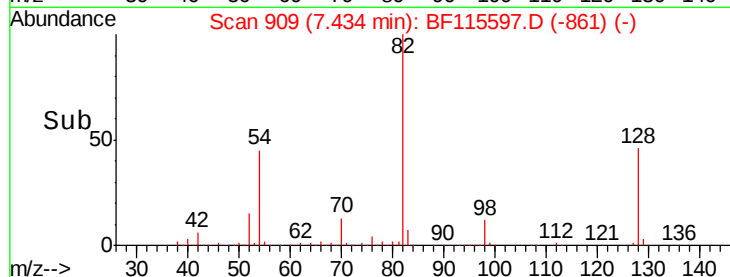
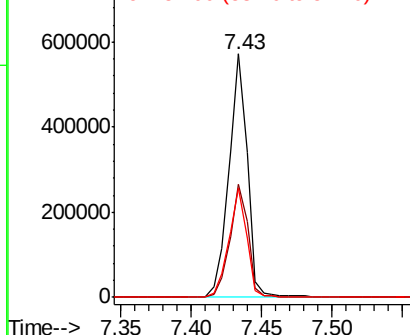


Abundance

Ion 82.00 (81.70 to 82.70): BF1

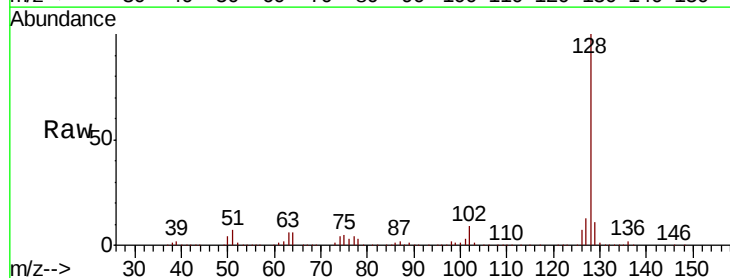
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31  
Naphthalene  
Concen: 8.141 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 457923 |       |       |
| 129     | 11.5  |        | 9.9   | 14.9  |
| 127     | 13.2  |        | 12.1  | 18.1  |

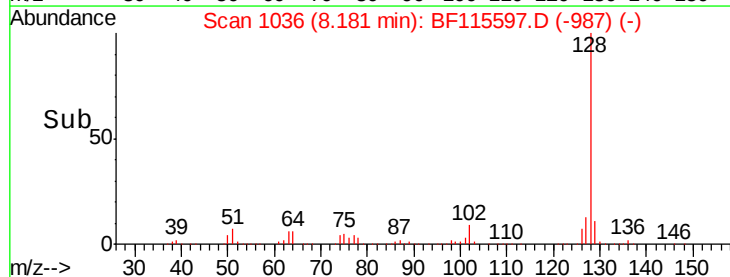
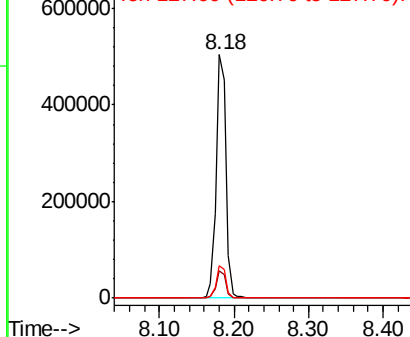


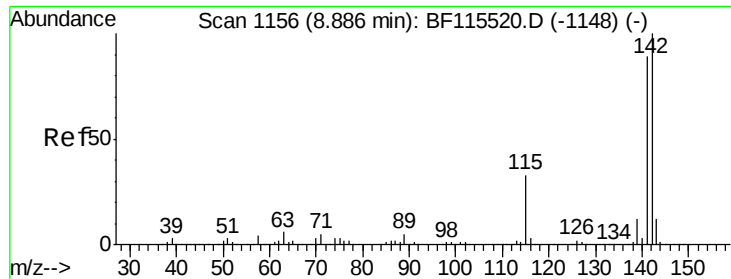
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





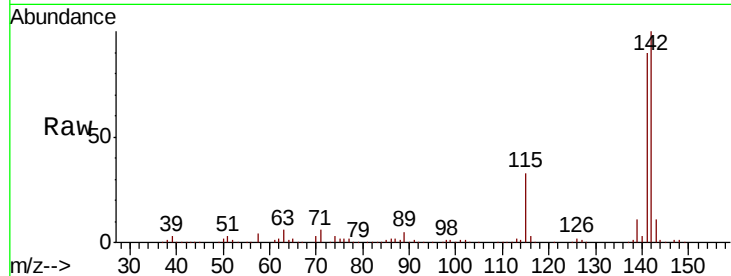
#37  
2-Methylnaphthalene  
Concen: 5.788 ng  
RT: 8.87 min Scan# 1154  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.7  | 72.0  | 108.0 |
| 115     | 33.1  | 29.9  | 44.9  |

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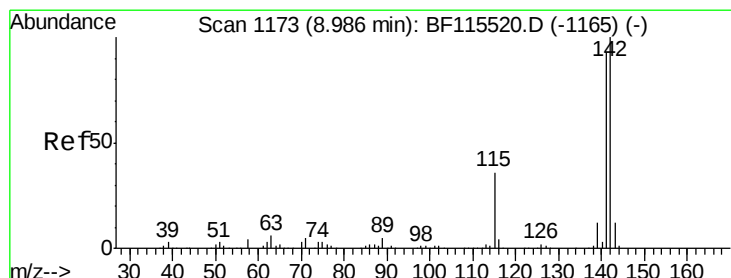
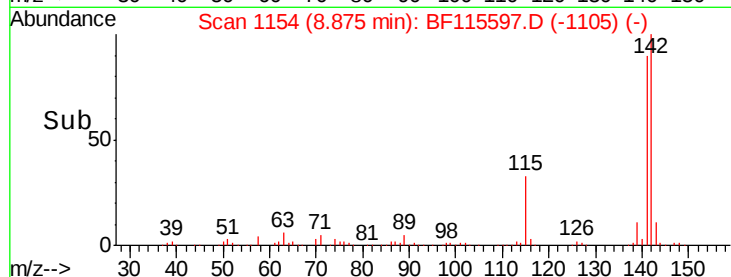
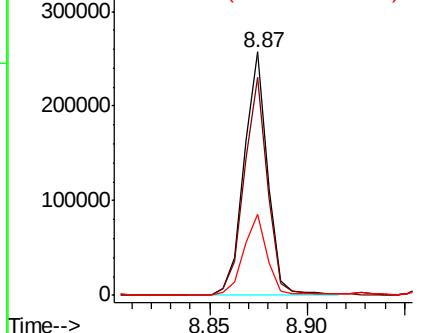


Abundance

Ion 142.00 (141.70 to 142.70): E

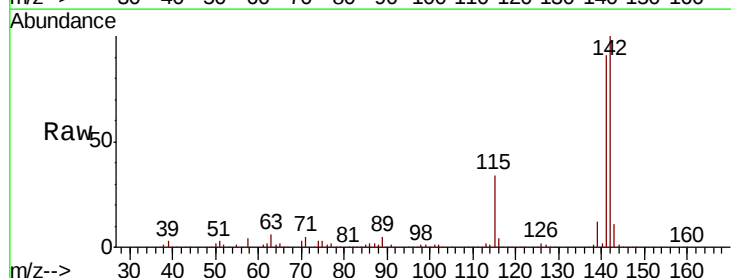
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38  
1-Methylnaphthalene  
Concen: 5.707 ng  
RT: 8.97 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.2  | 75.3  | 112.9 |
| 116     | 3.6   | 3.3   | 4.9   |

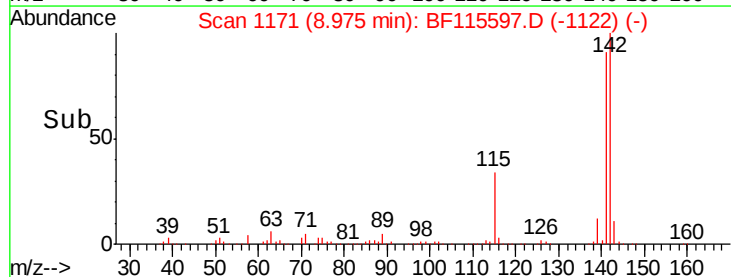
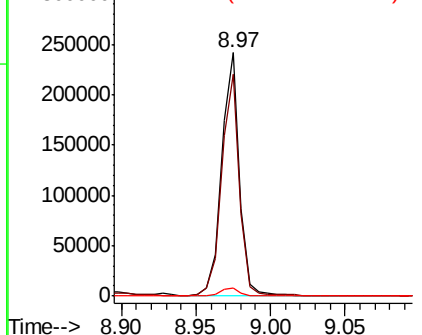


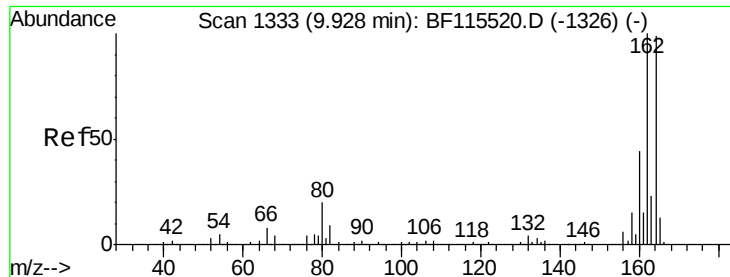
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





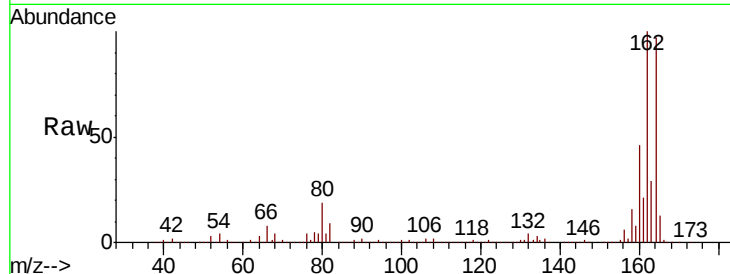
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

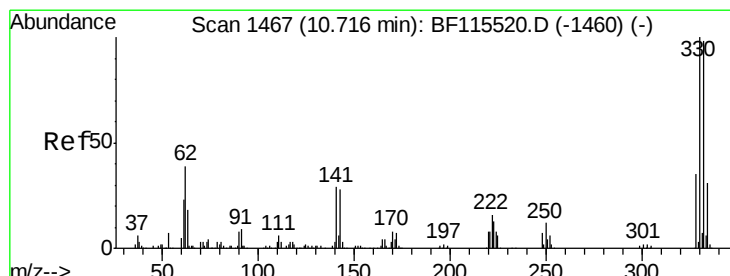
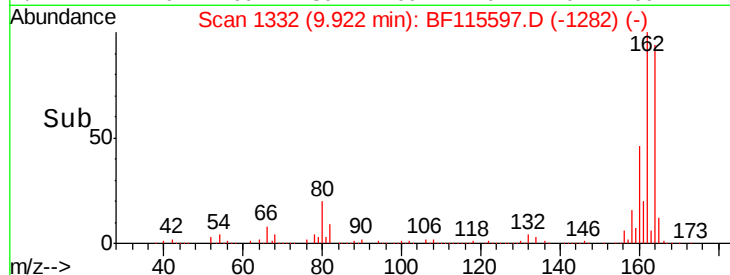
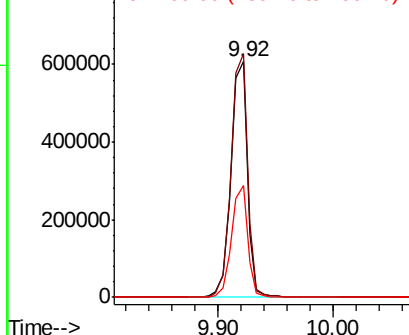
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   |        |       |       |
| 162     | 103.4 | 598248 | 82.9  | 124.3 |
| 160     | 47.4  |        | 36.8  | 55.2  |

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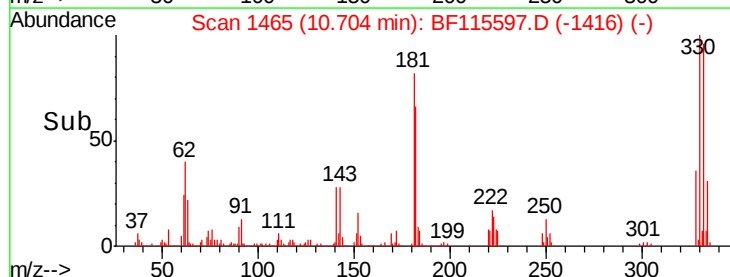
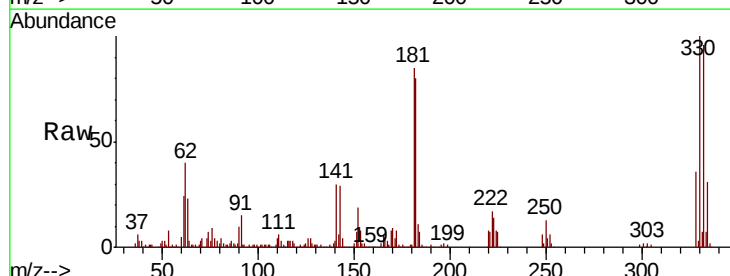
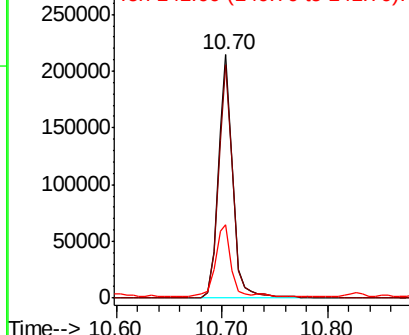
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

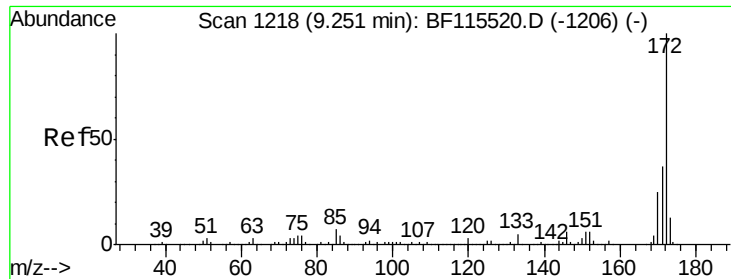


#42  
2,4,6-Tribromophenol  
Concen: 29.837 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 208351 |       |       |
| 332     | 96.9  |        | 77.4  | 116.2 |
| 141     | 31.8  |        | 22.4  | 33.6  |

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





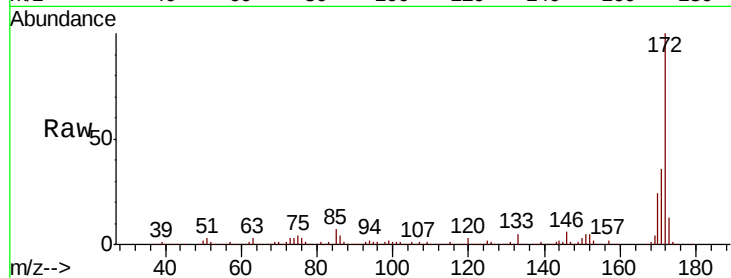
#45  
2-Fluorobiphenyl  
Concen: 26.172 ng  
RT: 9.24 min Scan# 1216  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 894558 |       |       |
| 171     | 36.0  |        | 30.6  | 46.0  |
| 170     | 24.0  |        | 20.5  | 30.7  |

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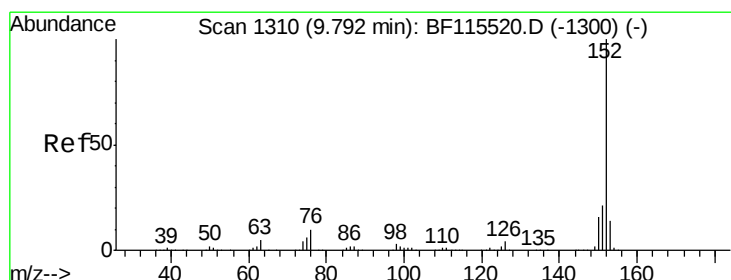
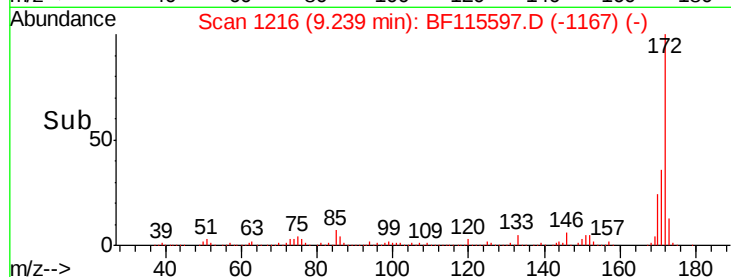
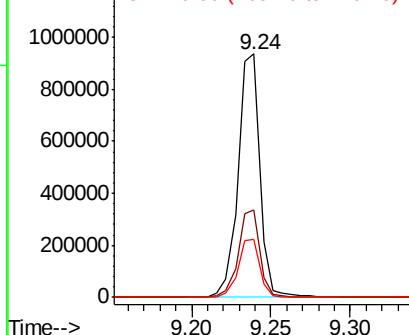


Abundance

Ion 172.00 (171.70 to 172.70): E

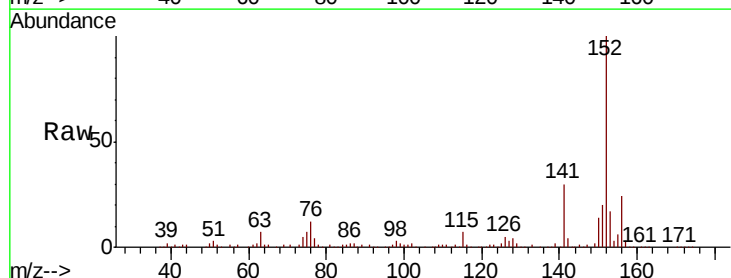
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49  
Acenaphthylene  
Concen: 3.029 ng  
RT: 9.77 min Scan# 1307  
Delta R.T. -0.02 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 174805 |       |       |
| 151     | 20.3  |        | 17.7  | 26.5  |
| 153     | 16.7  |        | 12.0  | 18.0  |

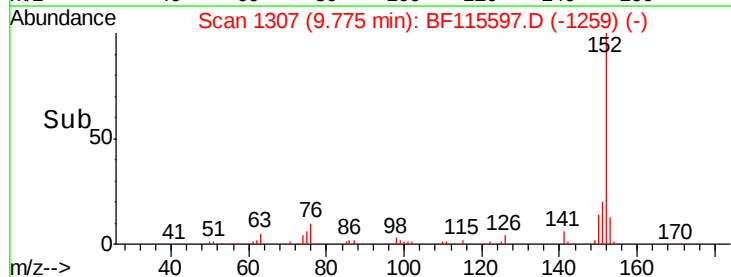
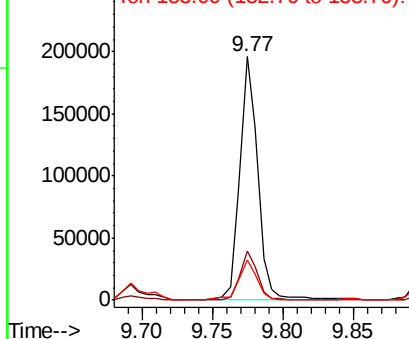


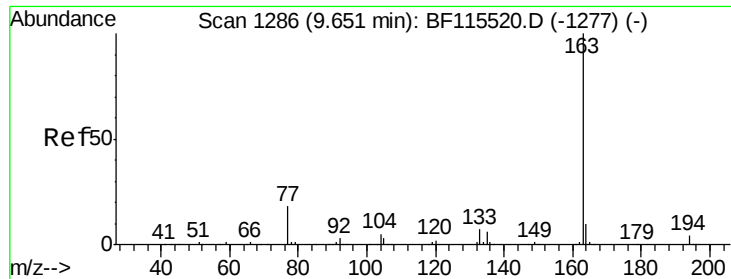
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





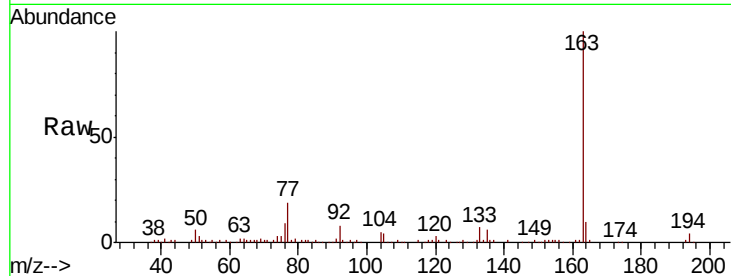
#50  
Dimethylphthalate  
Concen: 2.540 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.02 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

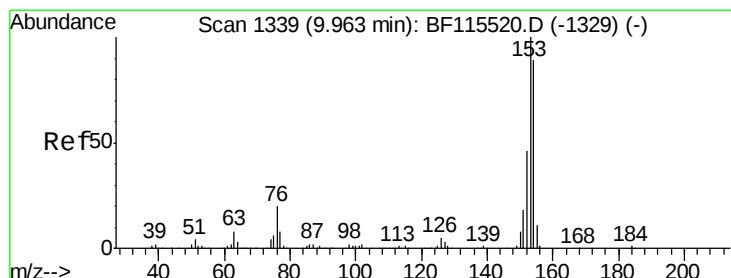
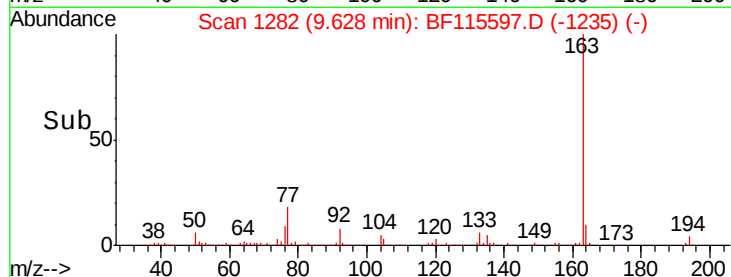
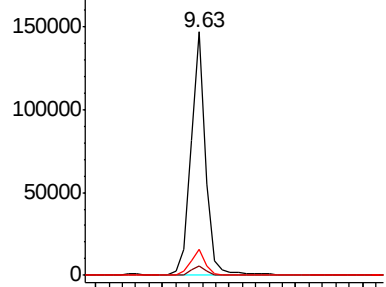
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 4.1   | 3.3  | 4.9   |       |
| 164     | 10.5  | 8.7  | 13.1  |       |

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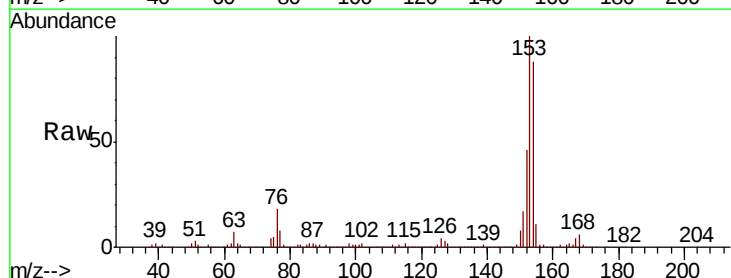


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

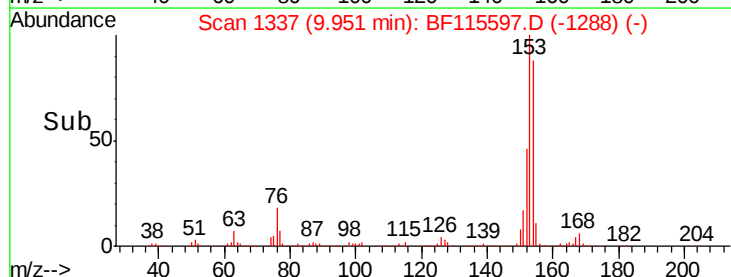
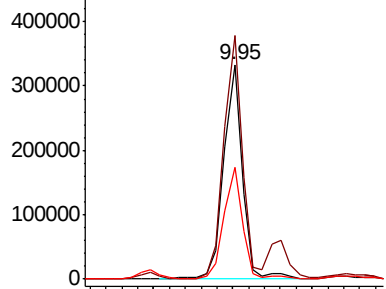


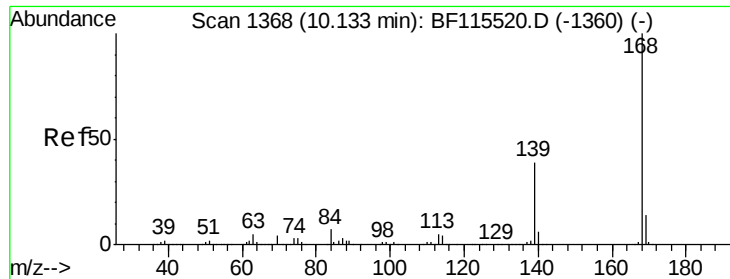
#52  
Acenaphthene  
Concen: 7.209 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 154     | 100   |      |       |       |
| 153     | 113.5 | 88.6 | 133.0 |       |
| 152     | 52.3  | 42.3 | 63.5  |       |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





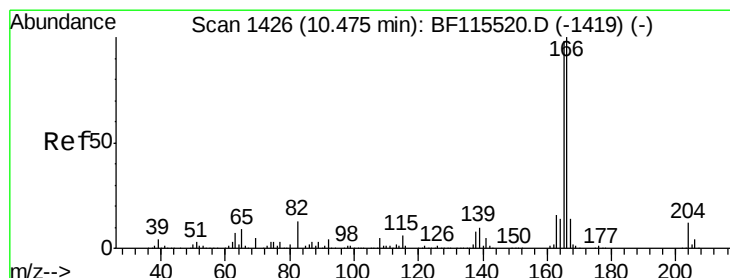
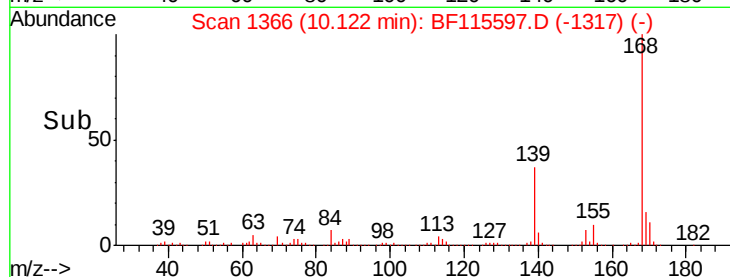
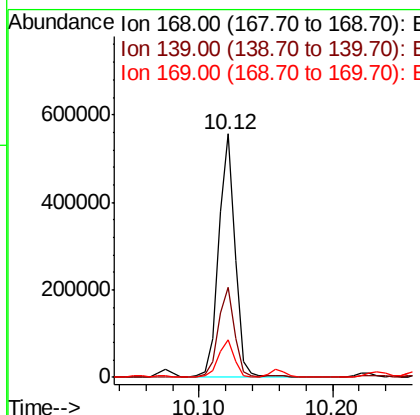
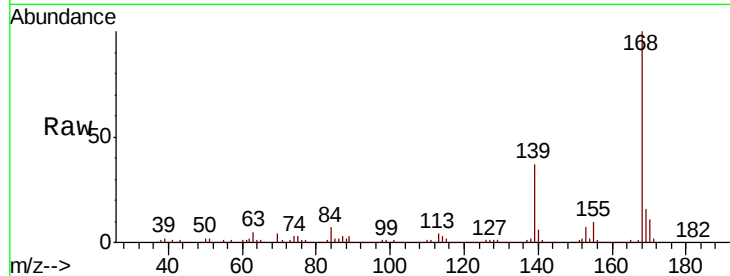
#55  
Dibenzenofuran  
Concen: 9.082 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 480499 |       |       |
| 139     | 37.2  |        | 31.1  | 46.7  |
| 169     | 15.7  |        | 11.1  | 16.7  |

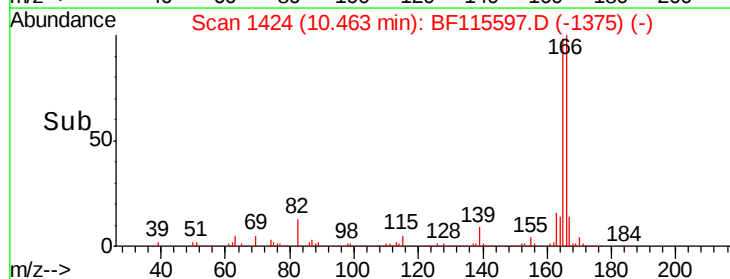
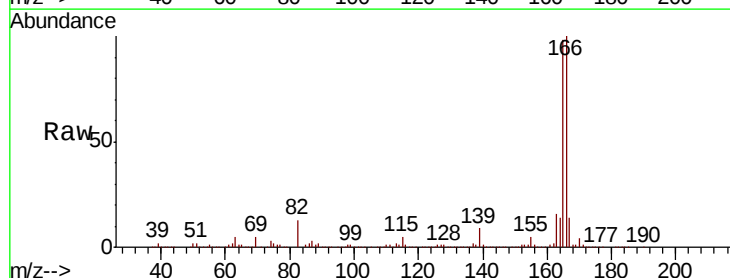
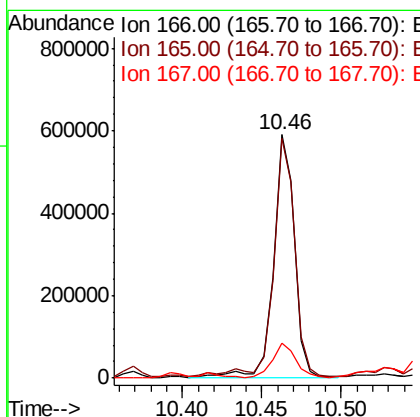
Manual Integrations  
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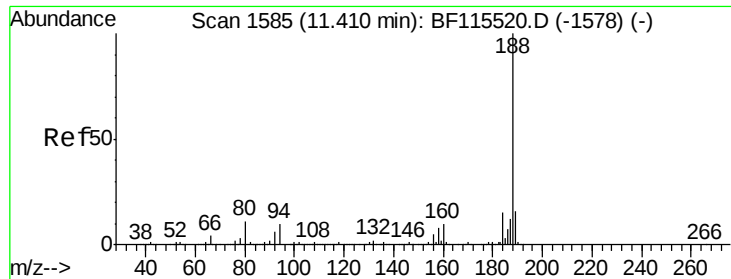
mohammad  
7/17/2019 12:06:06 PM



#58  
Fluorene  
Concen: 14.283 ng  
RT: 10.46 min Scan# 1424  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 540206 |       |       |
| 165     | 98.3  |        | 79.8  | 119.6 |
| 167     | 14.4  |        | 11.2  | 16.8  |





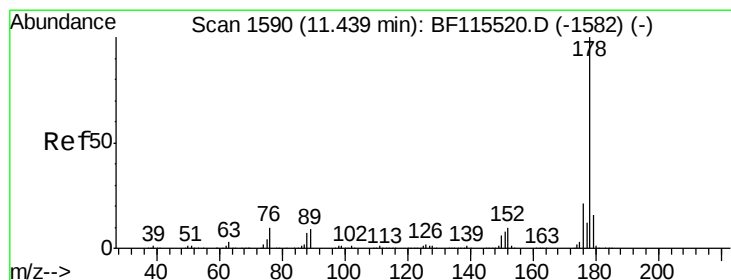
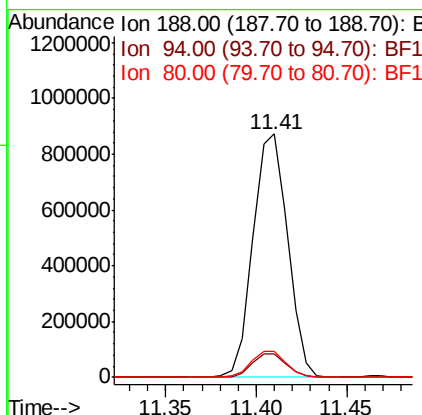
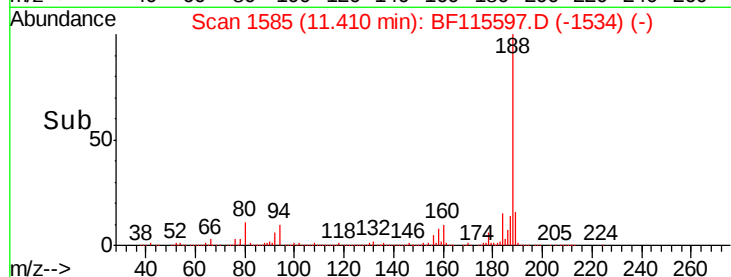
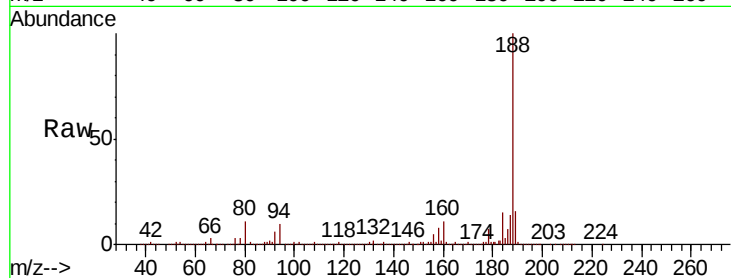
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. 0.00 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 7.8   | 11.6  |
| 80      | 10.5  | 8.6   | 13.0  |

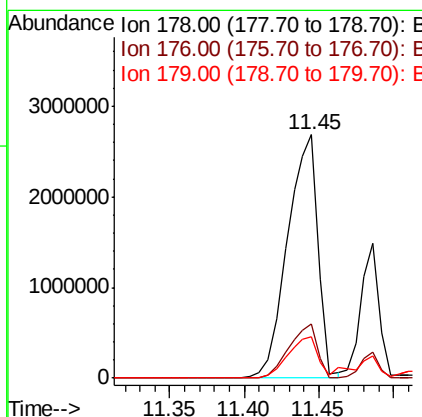
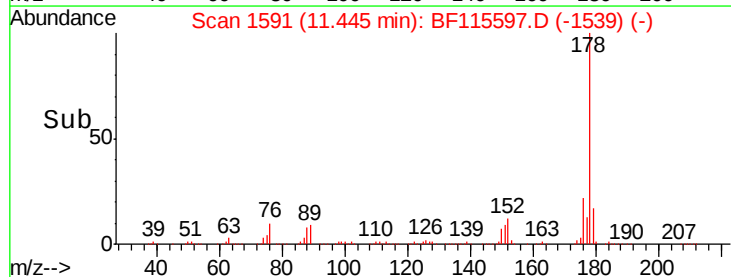
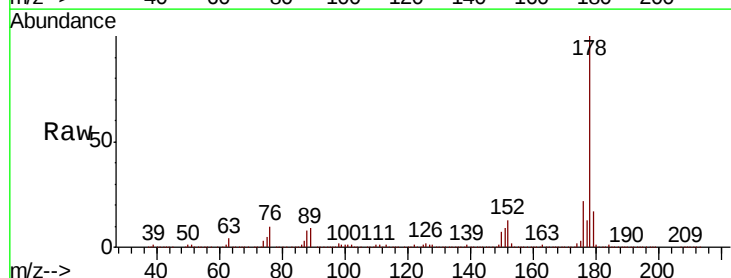
Manual Integrations  
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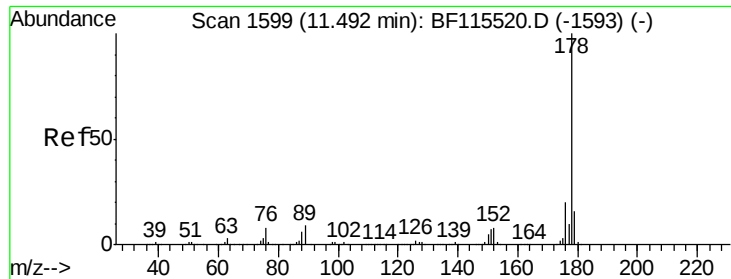
mohammad  
7/17/2019 12:06:06 PM



#71  
Phenanthrene  
Concen: 64.073 ng  
RT: 11.45 min Scan# 1591  
Delta R.T. 0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 22.0  | 17.2  | 25.8  |
| 179     | 17.2  | 13.5  | 20.3  |





#72

Anthracene

Concen: 20.011 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

Instrument :

BNA\_F

ClientSampleId :

SU-04-071119-A

Tot Ion:178 Resp: 1225769

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

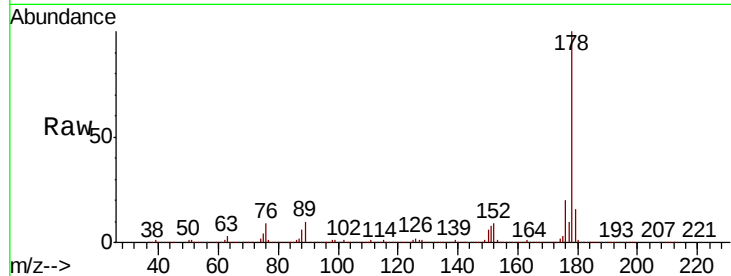
179 16.1 12.7 19.1

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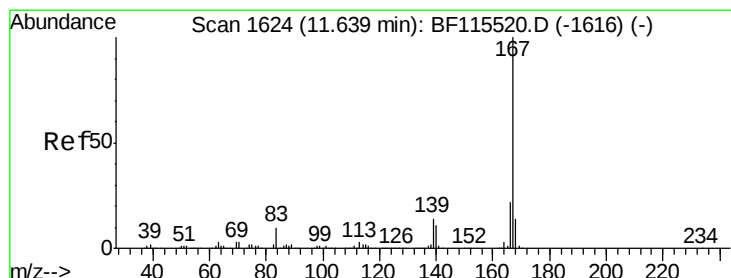
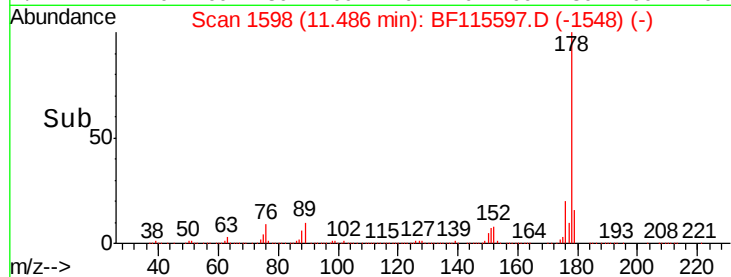
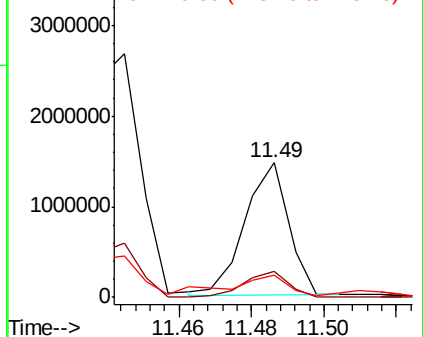
7/17/2019 12:06:06 PM



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



#73

Carbazole

Concen: 10.268 ng

RT: 11.63 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

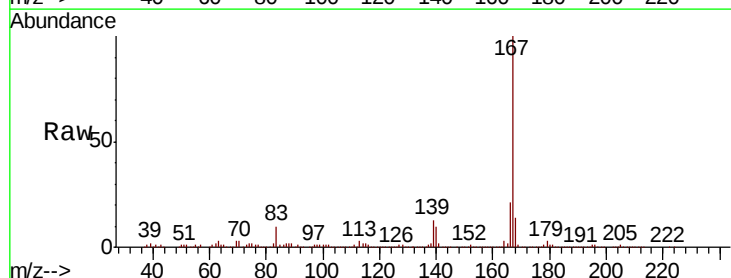
Tgt Ion:167 Resp: 551572

Ion Ratio Lower Upper

167 100

166 21.4 18.1 27.1

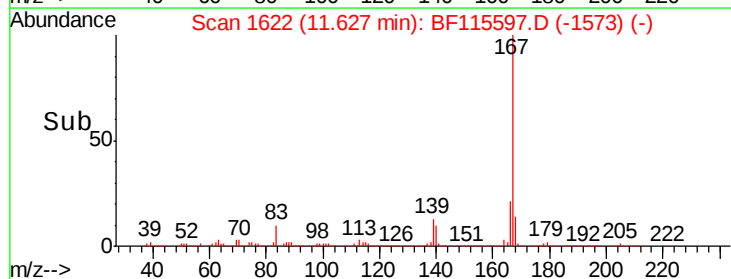
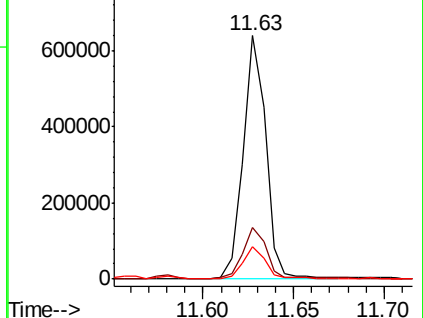
139 13.3 11.3 16.9

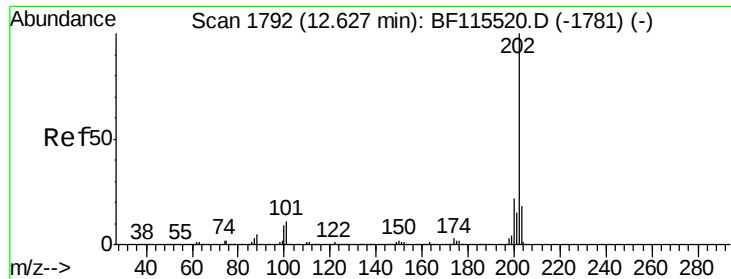


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 50.639 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.01 min

Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

Instrument :

BNA\_F

ClientSampleId :

SU-04-071119-A

Tot Ion:202 Resp: 3171733

Ion Ratio Lower Upper

202 100

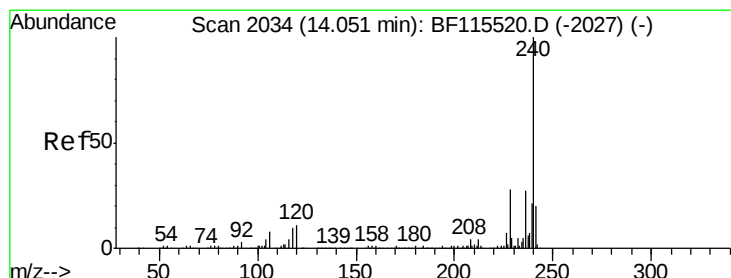
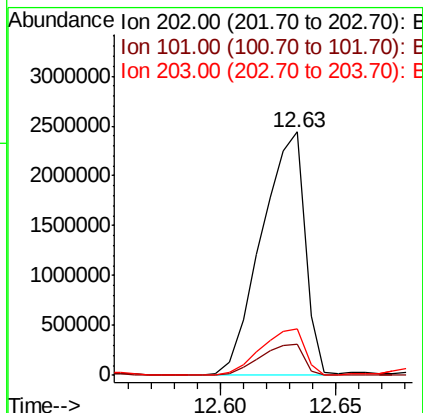
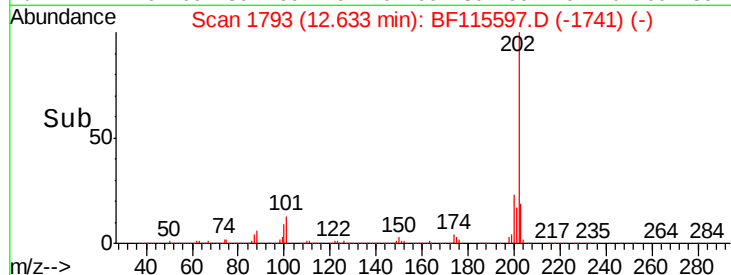
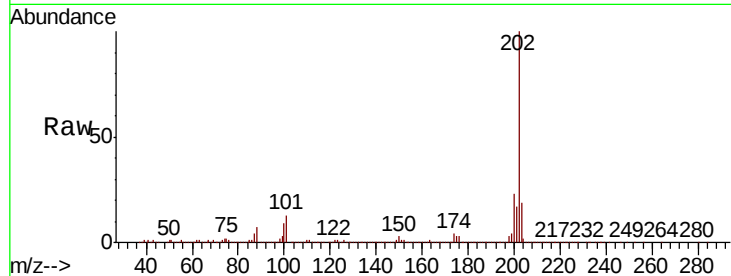
101 12.7 0.0 31.4

203 19.1 0.0 38.1

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#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF115597.D

Acq: 16 Jul 2019 15:16

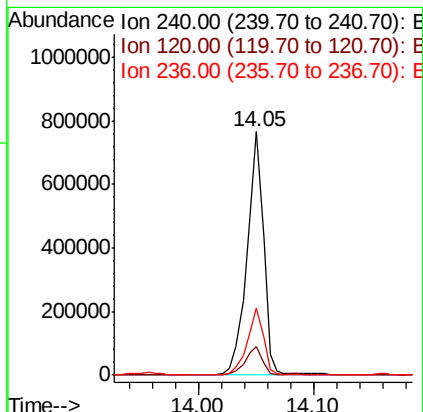
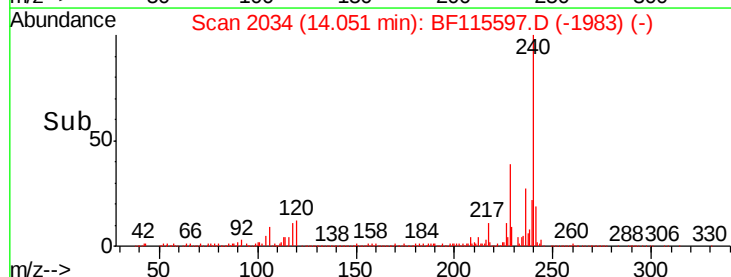
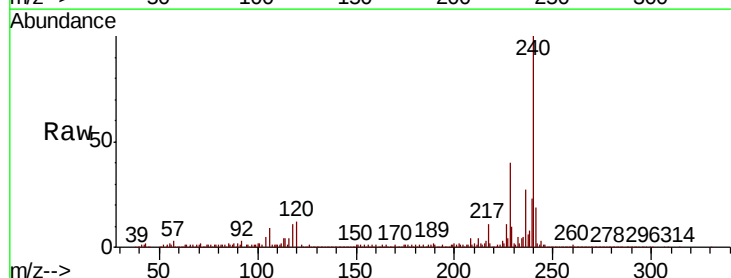
Tgt Ion:240 Resp: 754747

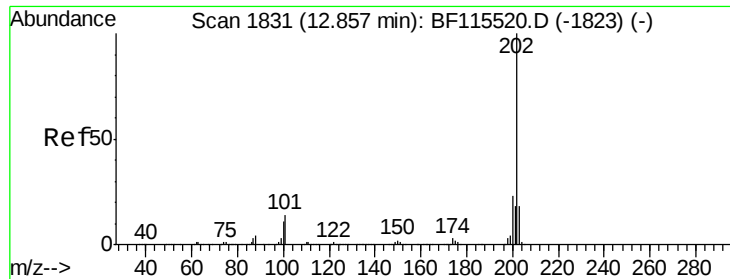
Ion Ratio Lower Upper

240 100

120 11.8 8.6 13.0

236 27.3 21.3 31.9





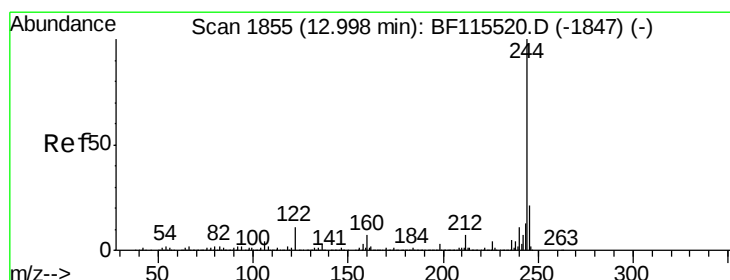
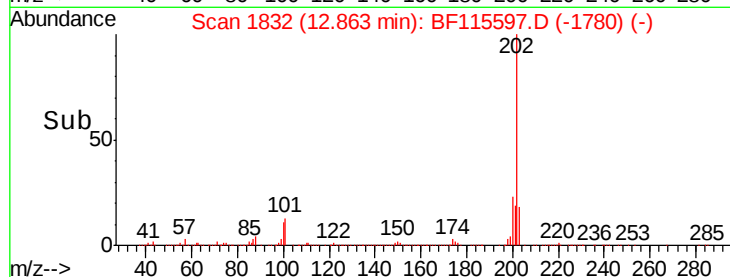
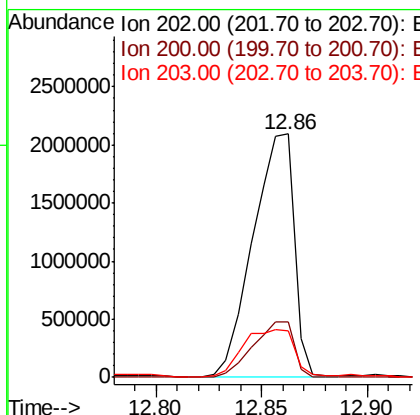
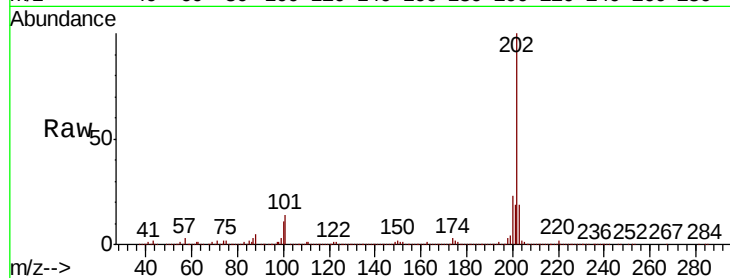
#78  
Pvrene  
Concen: 44.290 ng  
RT: 12.86 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 23.0  | 18.7  | 28.1  |
| 203     | 19.2  | 15.2  | 22.8  |

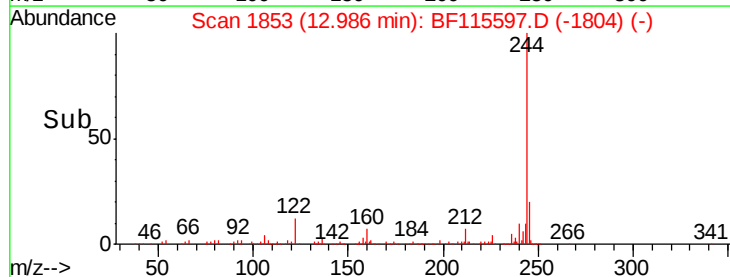
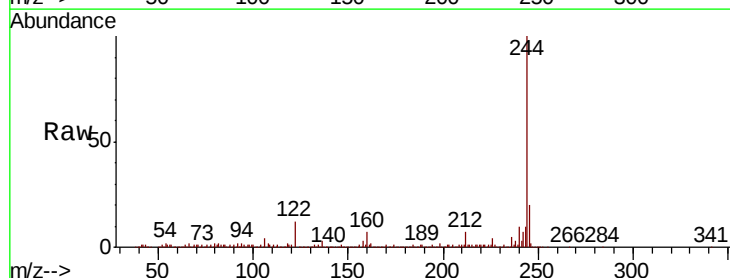
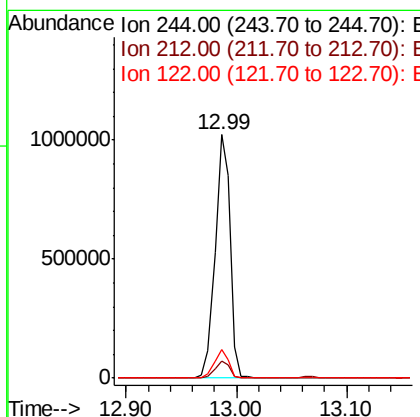
Manual Integrations  
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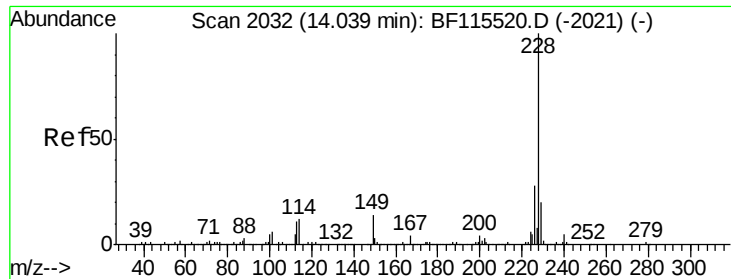
mohammad  
7/17/2019 12:06:06 PM



#79  
Terphenyl-d14  
Concen: 23.231 ng  
RT: 12.99 min Scan# 1853  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 6.0   | 9.0   |
| 122     | 11.8  | 8.6   | 12.8  |





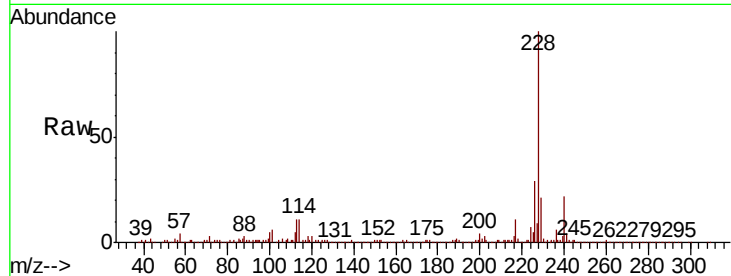
#81  
Benzo(a)anthracene  
Concen: 30.472 ng  
RT: 14.04 min Scan# 2032  
Delta R.T. 0.00 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 23.4  | 35.0  |
| 229     | 21.5  | 17.2  | 25.8  |

Manual Integrations  
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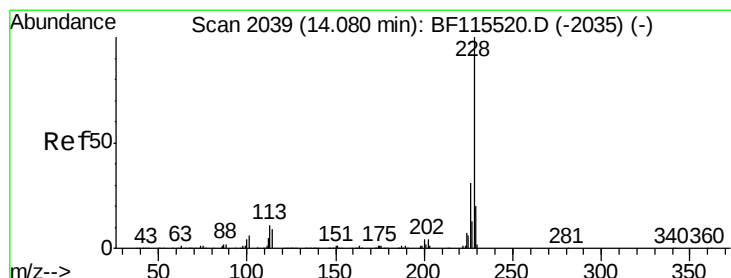
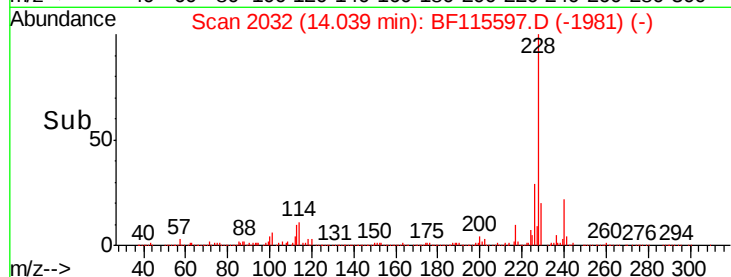
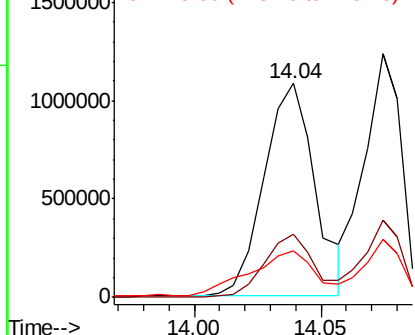


Abundance

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: 25.373 ng  
RT: 14.07 min Scan# 2038  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

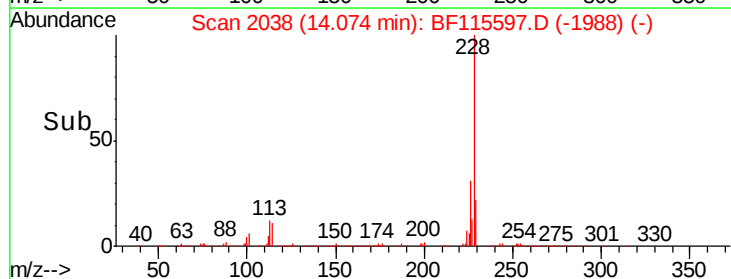
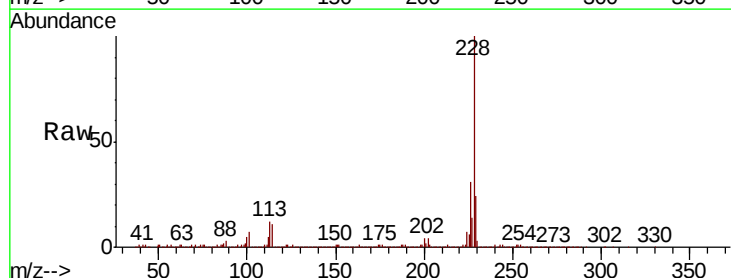
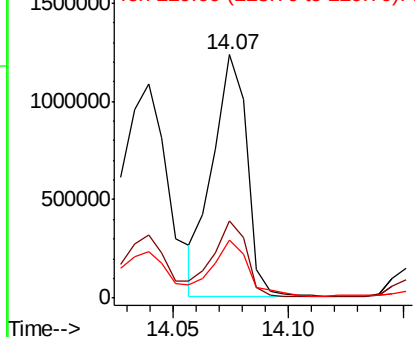
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 25.7  | 38.5  |
| 229     | 23.6  | 16.6  | 25.0  |

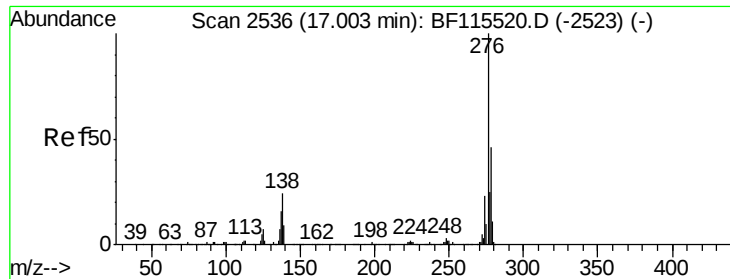
Abundance

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





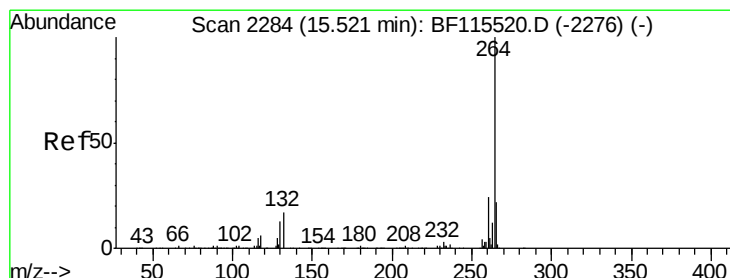
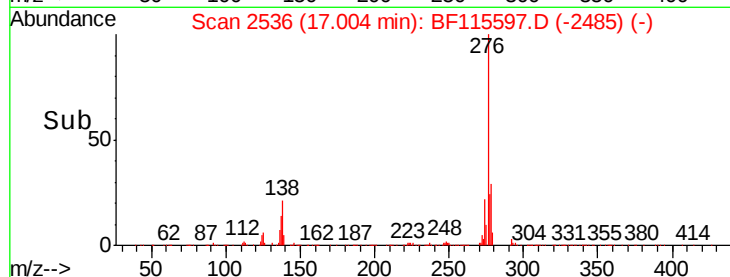
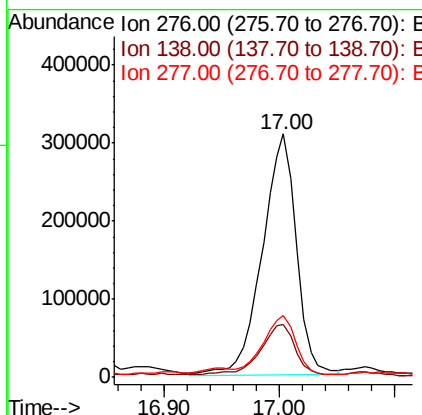
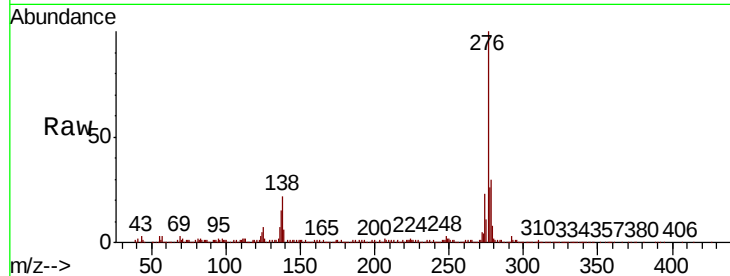
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 14.985 ng  
 RT: 17.00 min Scan# 2536  
 Delta R.T. 0.00 min  
 Lab File: BF115597.D  
 Acq: 16 Jul 2019 15:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.0  | 20.2  | 30.2  |
| 277     | 23.6  | 20.4  | 30.6  |

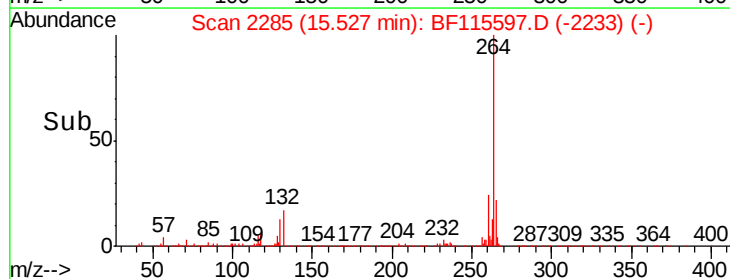
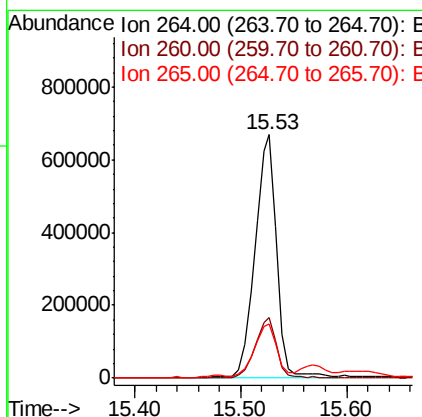
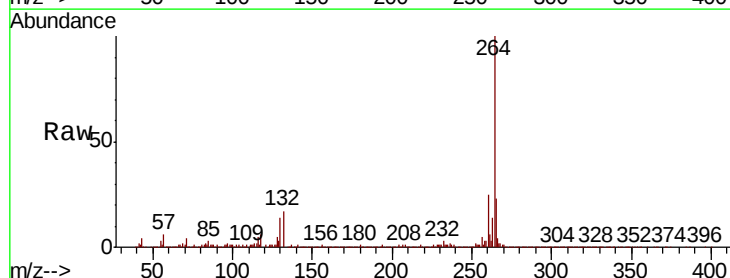
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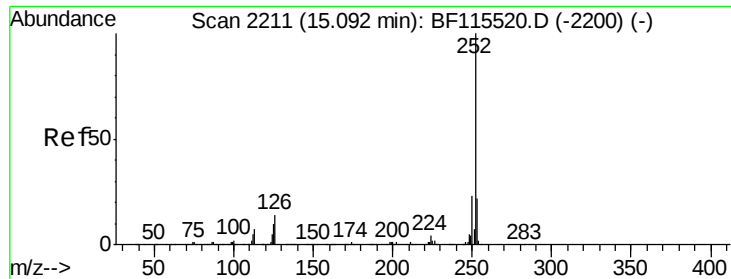
mohammad  
 7/17/2019 12:06:06 PM



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.53 min Scan# 2285  
 Delta R.T. 0.01 min  
 Lab File: BF115597.D  
 Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.8  | 29.8  |
| 265     | 22.5  | 17.7  | 26.5  |





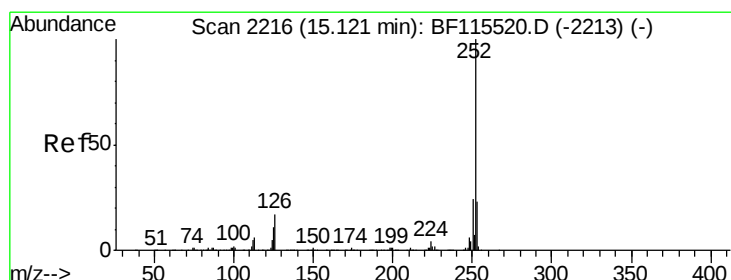
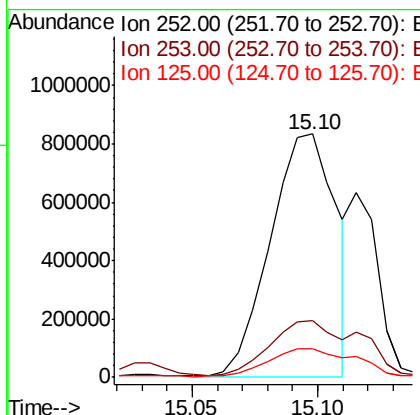
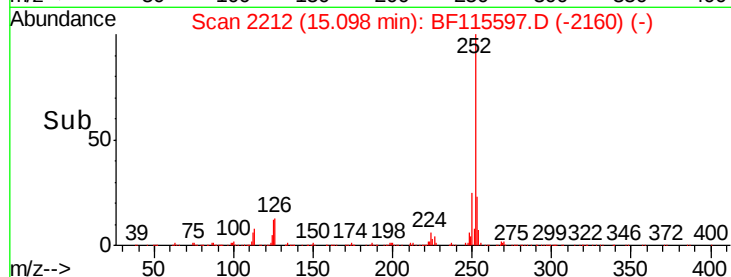
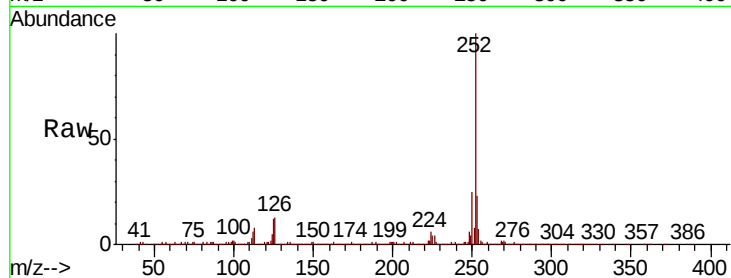
#88  
Benzo(b)fluoranthene  
Concen: 24.603 ng m  
RT: 15.10 min Scan# 2212  
Delta R.T. 0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

Tot Ion:252 Resp: 1518365  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.1 27.1  
125 12.0 9.0 13.4

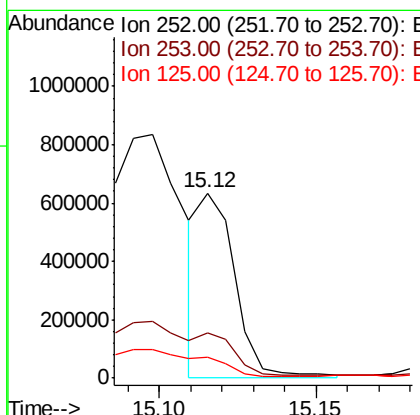
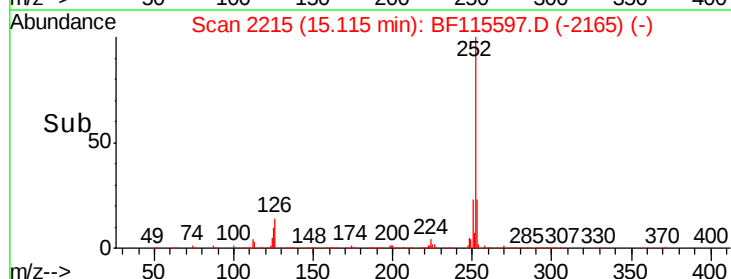
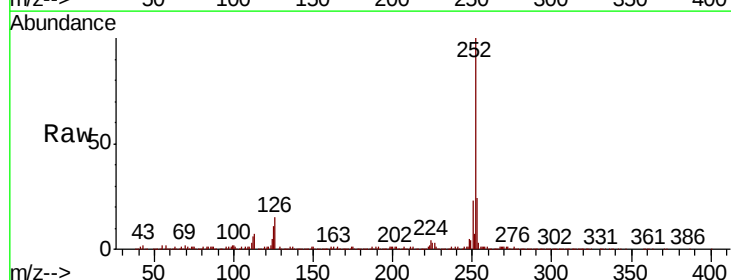
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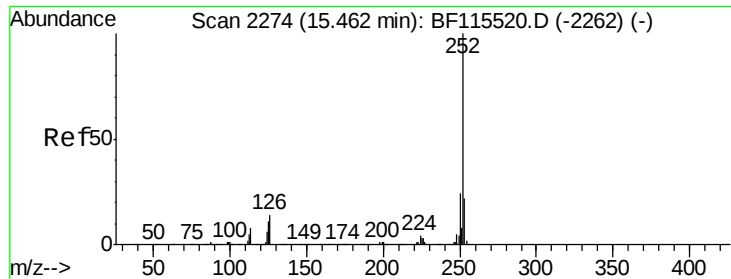
mohammad  
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#89  
Benzo(k)fluoranthene  
Concen: 9.133 ng m  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.01 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Tgt Ion:252 Resp: 502502  
Ion Ratio Lower Upper  
252 100  
253 24.1 18.6 28.0  
125 11.1 9.0 13.6





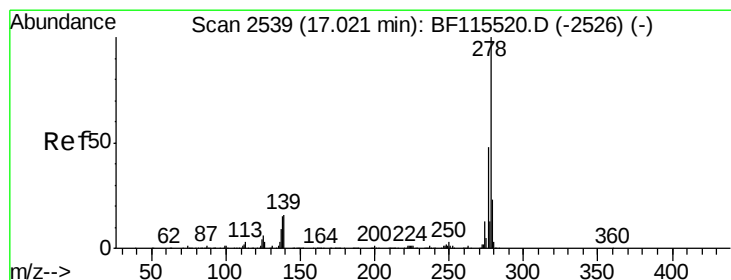
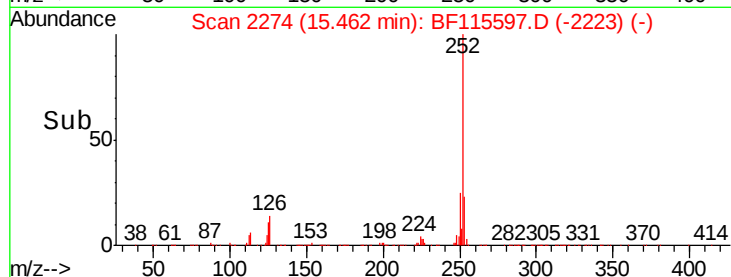
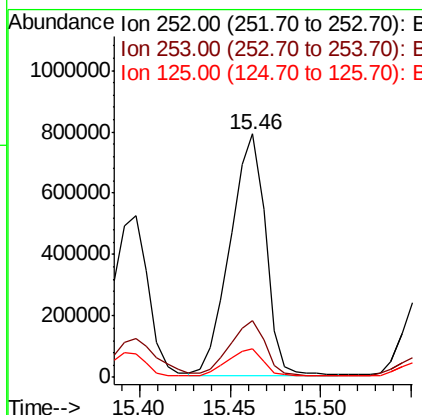
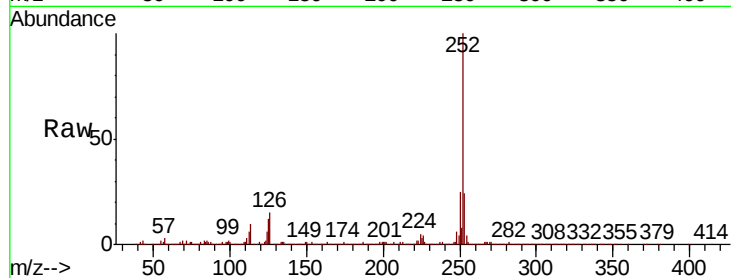
#90  
Benzo(a)pyrene  
Concen: 20.305 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.00 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-071119-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 11.8  | 9.1   | 13.7  |

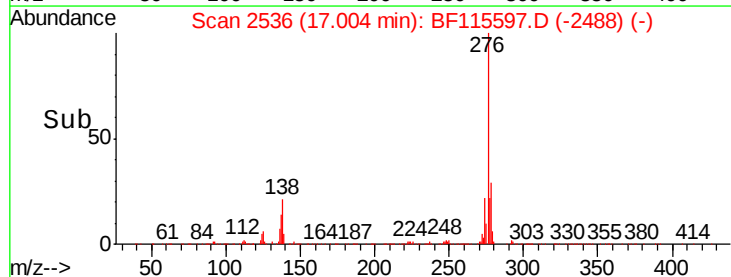
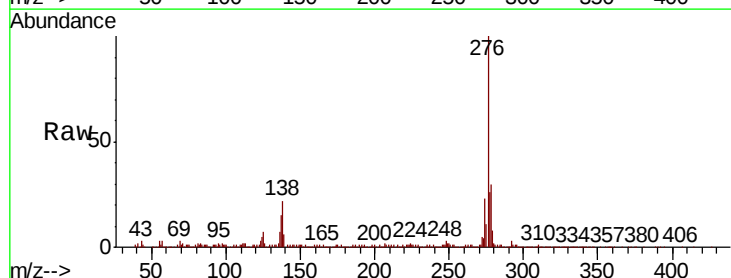
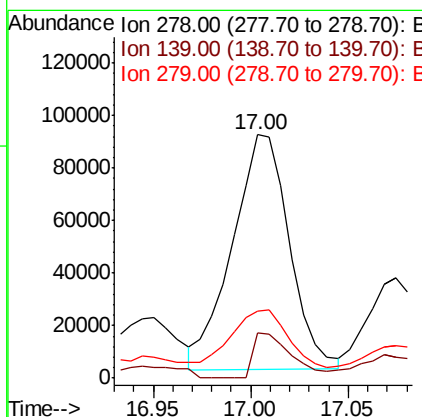
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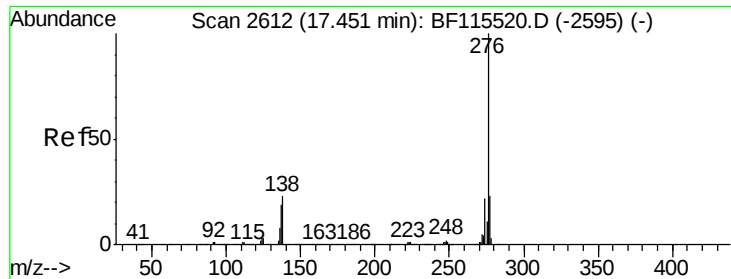
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#91  
Dibenzo(a,h)anthracene  
Concen: 3.901 ng  
RT: 17.00 min Scan# 2536  
Delta R.T. -0.02 min  
Lab File: BF115597.D  
Acq: 16 Jul 2019 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.7  | 13.1  | 19.7  |
| 279     | 27.5  | 19.6  | 29.4  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 12.720 ng  
 RT: 17.45 min Scan# 2612  
 Delta R.T. 0.00 min  
 Lab File: BF115597.D  
 Acq: 16 Jul 2019 15:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-071119-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 590721 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.2  | 19.0  | 28.4   |
| 138       | 22.4  | 17.2  | 25.8   |

Manual Integrations  
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