

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
 Data File : BF114961.D  
 Acq On : 11 Jun 2019 23:20  
 Operator : HP/JU  
 Sample : K3247-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-041-A

Manual Integrations  
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mohammad  
 6/12/2019 9:09:07 AM

Quant Time: Jun 12 05:32:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 16:44:00 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.66  | 152  | 238626   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.94  | 136  | 918618   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.69  | 164  | 448190   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.16 | 188  | 835822   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.79 | 240  | 615228   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.17 | 264  | 556195   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 1241627  | 88.06 | ng    | 0.00     |
| 7) Phenol-d6                | 6.30  | 99   | 1533820  | 90.19 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.22  | 82   | 907536   | 60.70 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.47 | 330  | 404418   | 82.95 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.02  | 172  | 1770866  | 62.71 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.74 | 244  | 1786600  | 57.75 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.41  | 163  | 227833   | 6.763 | ng    | 98       |
| 71) Phenanthrene            | 11.19 | 178  | 253372   | 6.248 | ng    | 95       |
| 75) Fluoranthene            | 12.36 | 202  | 404937   | 9.654 | ng    | 96       |
| 78) Pyrene                  | 12.59 | 202  | 374655   | 6.992 | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.77 | 228  | 193072   | 4.244 | ng    | 97       |
| 83) Chrysene                | 13.81 | 228  | 175484   | 3.841 | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.78 | 252  | 214915m  | 5.935 | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.80 | 252  | 67880m   | 2.160 | ng    |          |
| 90) Benzo(a)pyrene          | 15.11 | 252  | 134514   | 4.277 | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 16.86 | 276  | 70046    | 2.645 | ng    | # 91     |

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

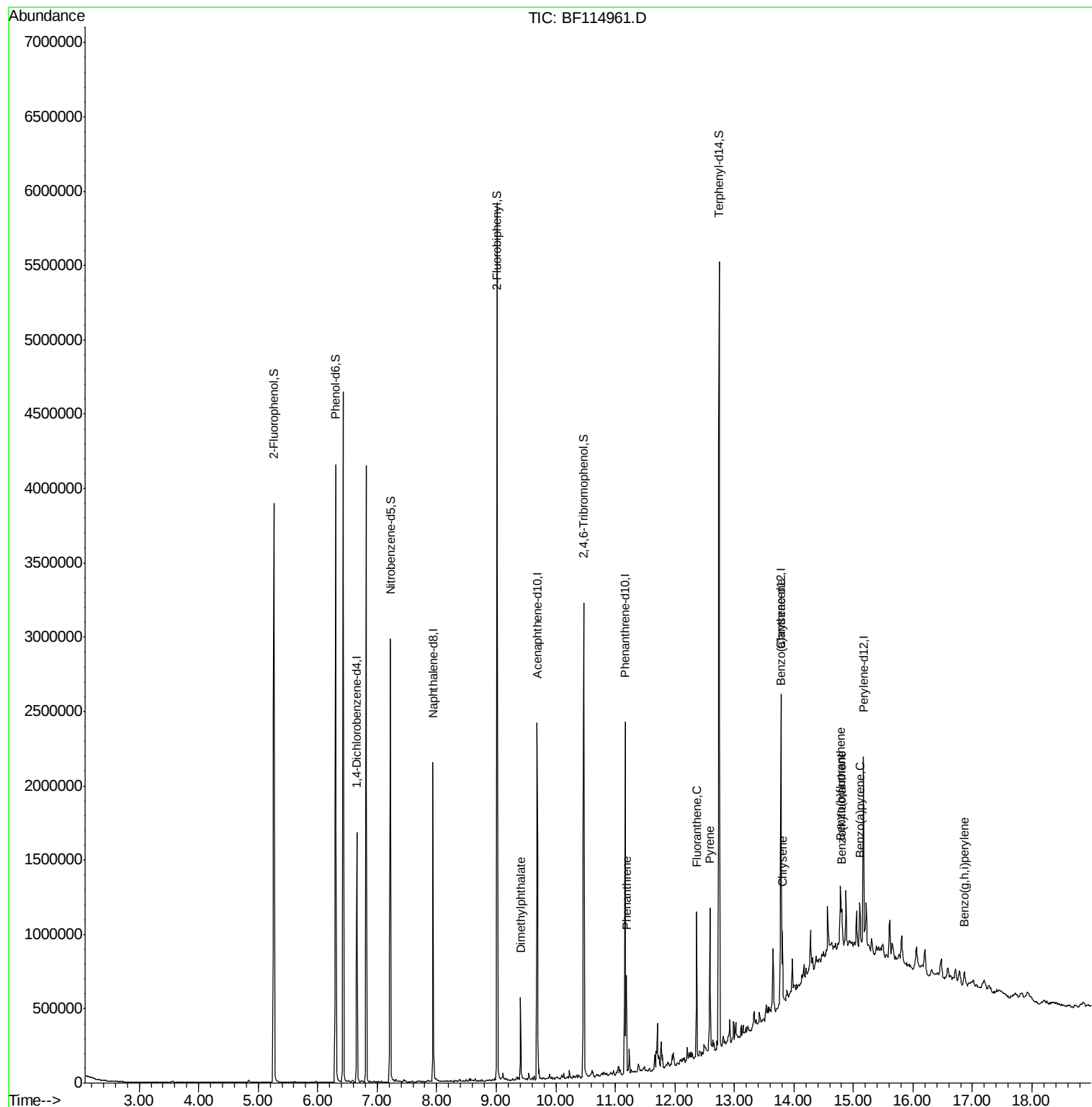
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\  
Data File : BF114961.D  
Acq On : 11 Jun 2019 23:20  
Operator : HP/JU  
Sample : K3247-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

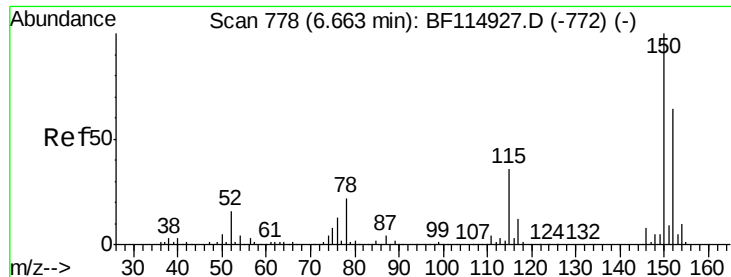
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

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6/12/2019 9:09:07 AM

Quant Time: Jun 12 05:32:10 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 10 16:44:00 2019  
Response via : Initial Calibration





#1

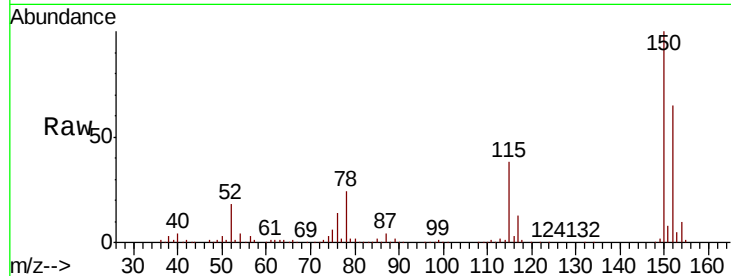
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.66 min Scan# 777  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.7 | 125.2 | 187.8 |
| 115     | 59.2  | 45.0  | 67.4  |

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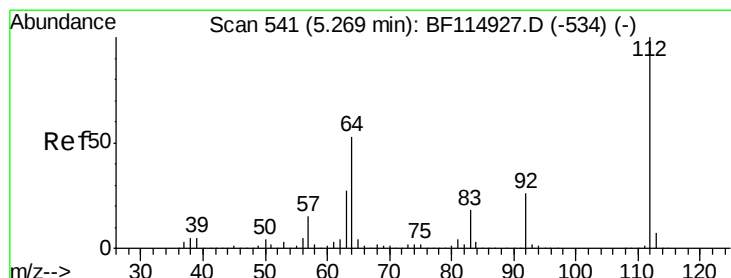
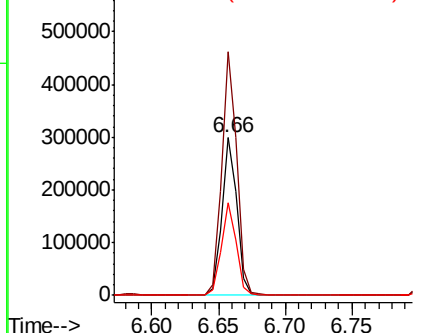
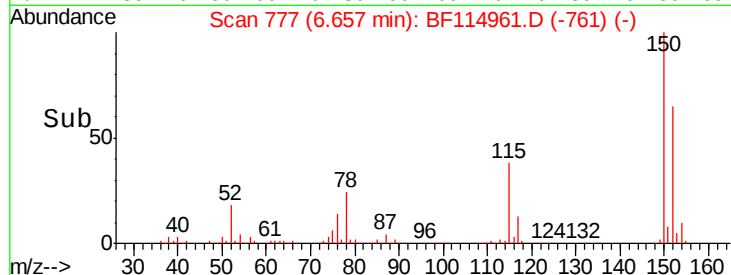


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

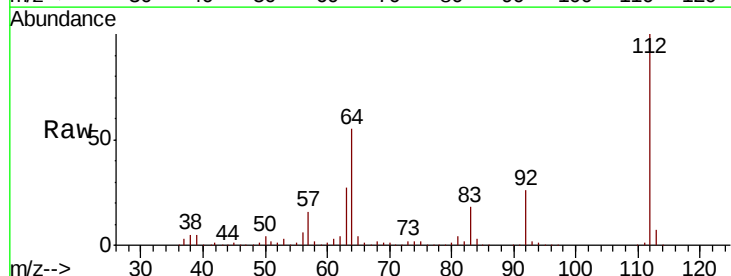
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 88.060 ng  
RT: 5.26 min Scan# 540  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.8  | 42.1  | 63.1  |
| 63      | 27.5  | 21.8  | 32.8  |

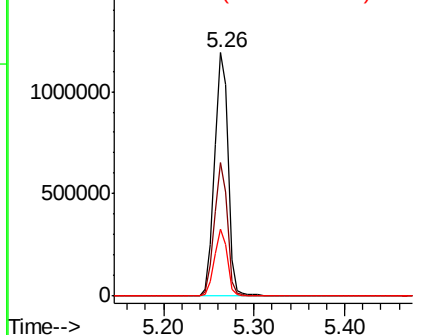
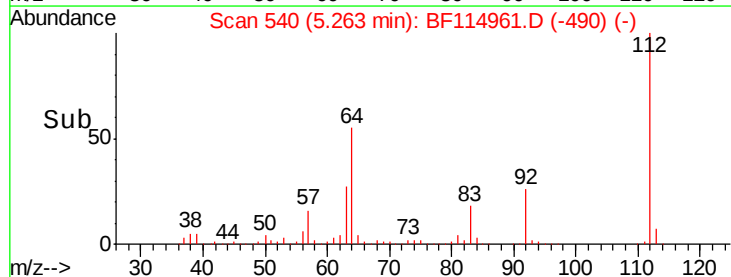


Abundance

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: 90.188 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF114961.D

Acq: 11 Jun 2019 23:20

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-041-A

Tot Ion: 99 Resp: 1533820

Ion Ratio Lower Upper

99 100

42 16.2 13.1 19.7

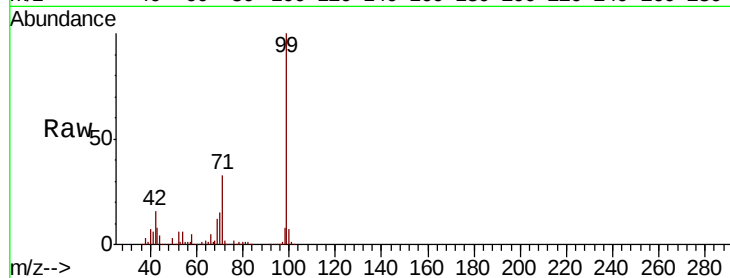
71 33.1 26.8 40.2

Manual Integrations

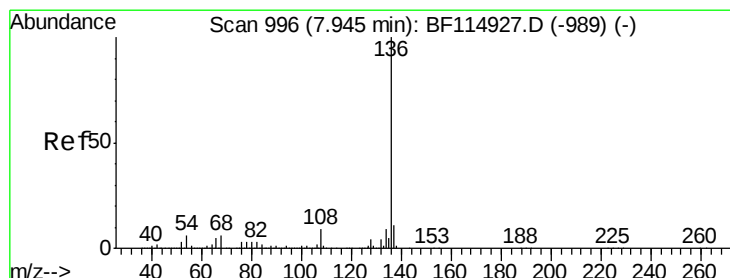
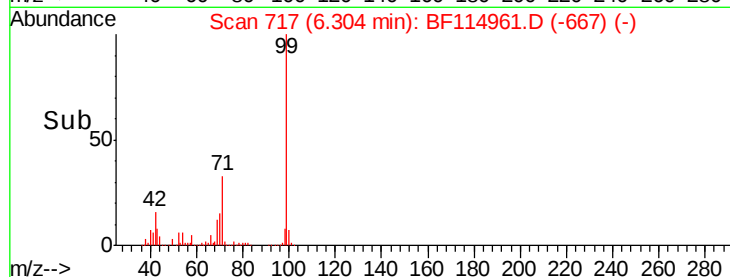
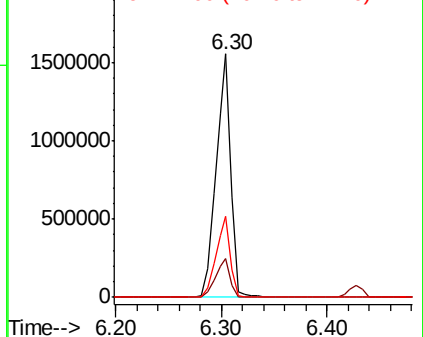
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.94 min Scan# 995

Delta R.T. -0.01 min

Lab File: BF114961.D

Acq: 11 Jun 2019 23:20

Tgt Ion: 136 Resp: 918618

Ion Ratio Lower Upper

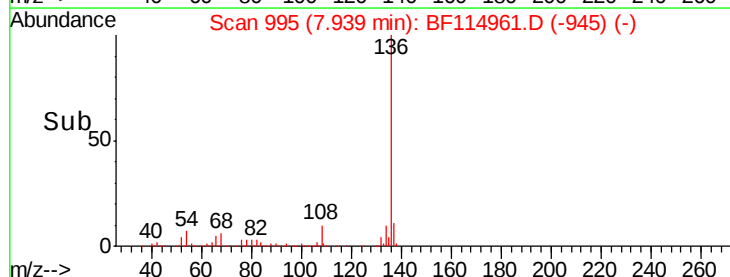
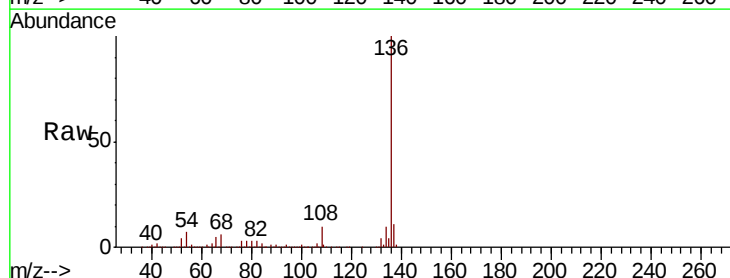
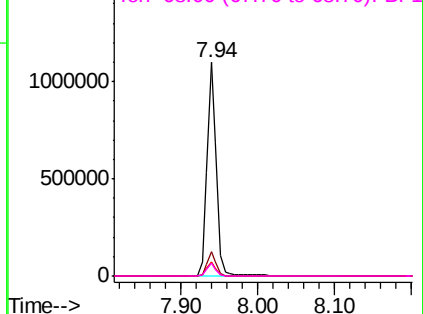
136 100

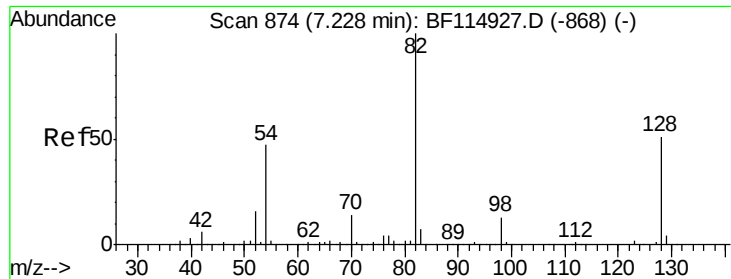
137 11.2 9.0 13.6

54 6.9 5.2 7.8

68 6.1 4.6 7.0

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





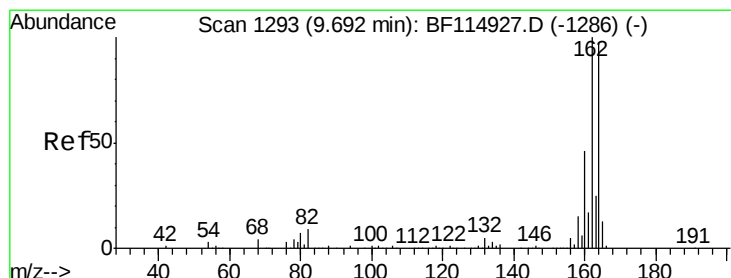
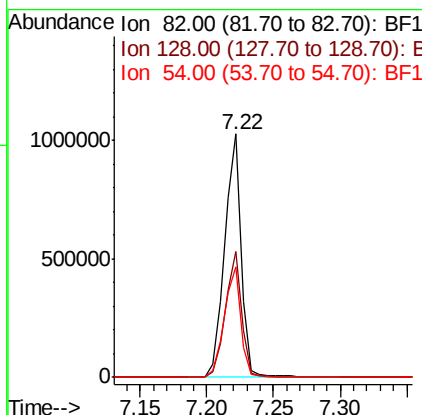
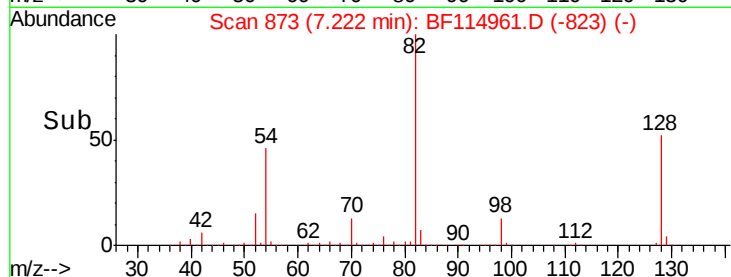
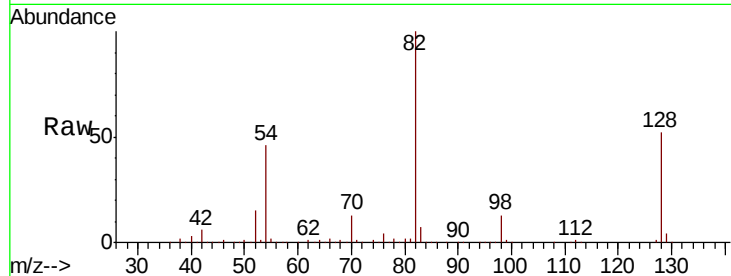
#23  
Nitrobenzene-d5  
Concen: 60.701 ng  
RT: 7.22 min Scan# 873  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampled :  
FK-GF-02-041-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 907536 |       |       |
| 128     | 51.9  |        | 40.9  | 61.3  |
| 54      | 45.5  |        | 37.4  | 56.0  |

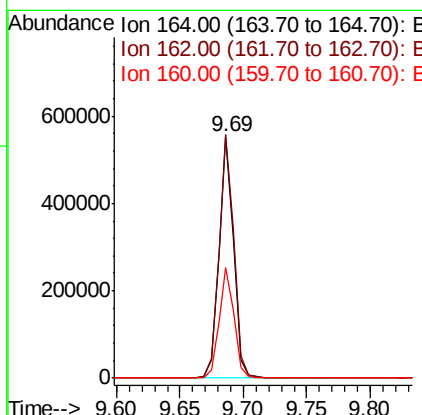
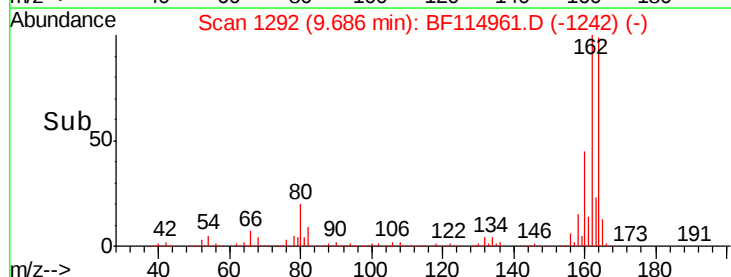
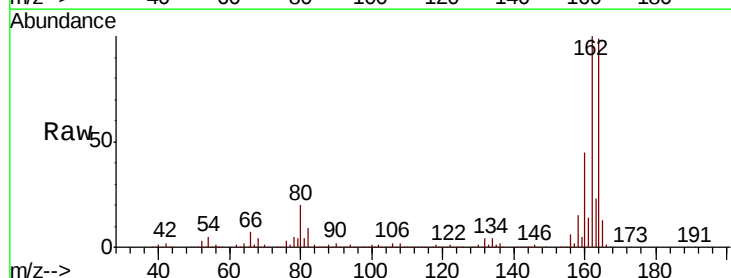
Manual Integrations  
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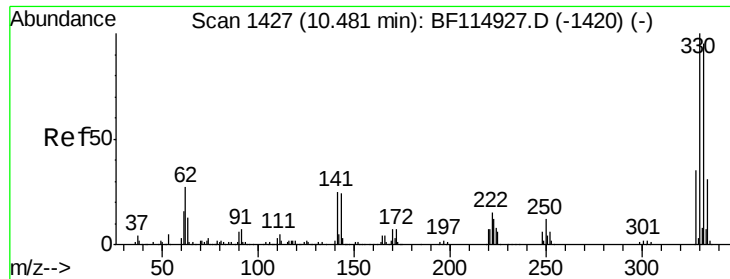
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 448190 |       |       |
| 162     | 101.0 |        | 82.4  | 123.6 |
| 160     | 45.6  |        | 37.5  | 56.3  |





#42

2,4,6-Tribromophenol

Concen: 82.950 ng

RT: 10.47 min Scan# 1426

Delta R.T. -0.01 min

Lab File: BF114961.D

Acq: 11 Jun 2019 23:20

Instrument :

BNA\_F

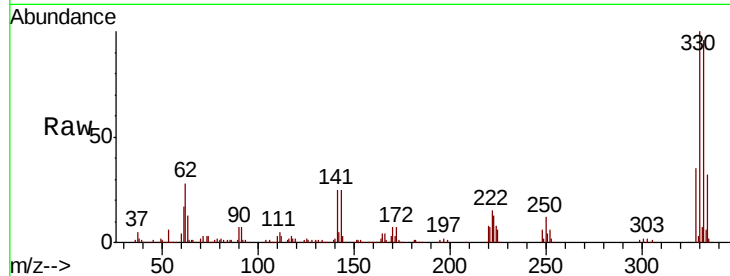
ClientSampleId :

FK-GF-02-041-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 404418 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.8  | 76.4  | 114.6  |
| 141       | 34.4  | 26.8  | 40.2   |

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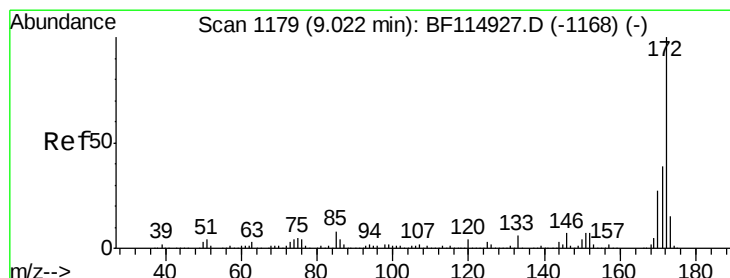
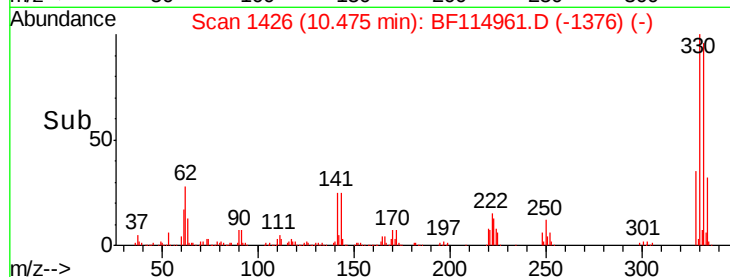
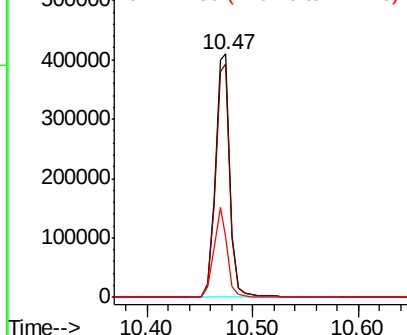


Abundance

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: 62.707 ng

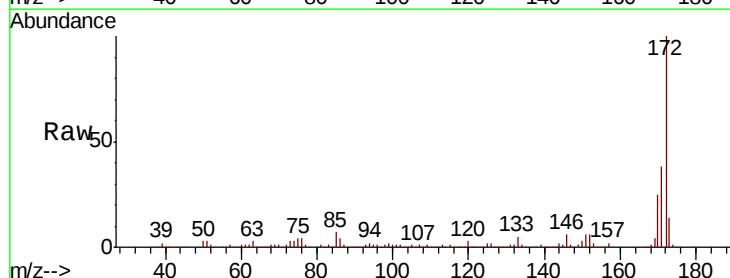
RT: 9.02 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF114961.D

Acq: 11 Jun 2019 23:20

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1770866 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 37.6  | 31.3  | 46.9    |
| 170       | 25.4  | 21.4  | 32.0    |

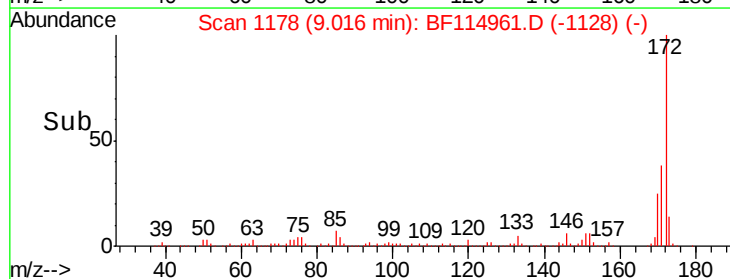
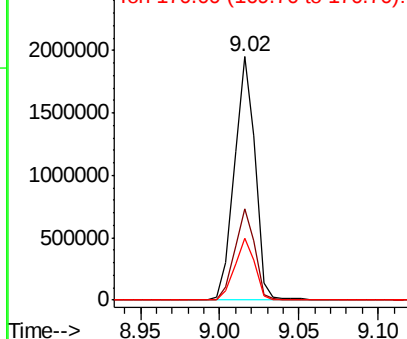


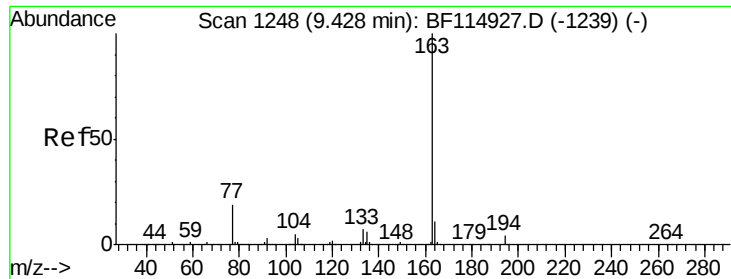
Abundance

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





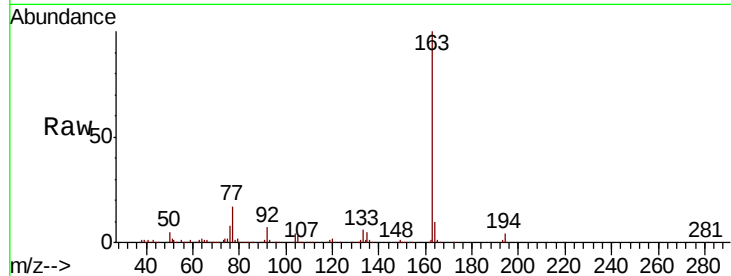
#50  
Dimethylphthalate  
Concen: 6.763 ng  
RT: 9.41 min Scan# 1245  
Delta R.T. -0.02 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 227833 |       |       |
| 194     | 4.0   |        | 3.4   | 5.0   |
| 164     | 10.0  |        | 8.7   | 13.1  |

Manual Integrations  
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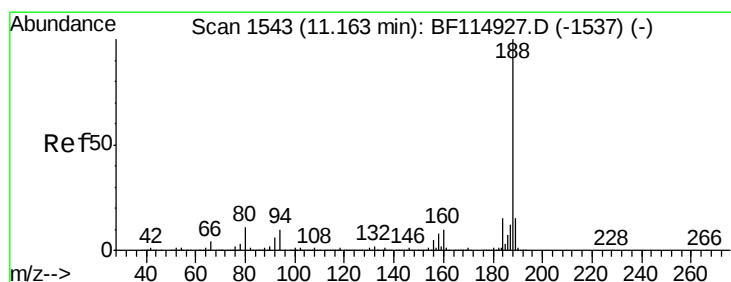
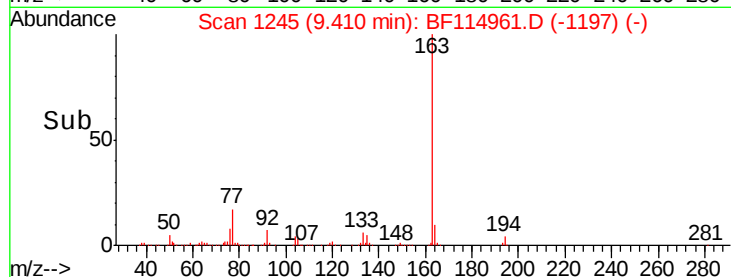
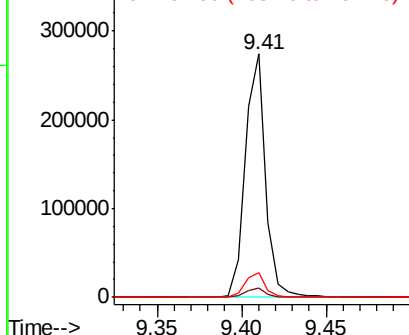


Abundance

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



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.16 min Scan# 1543  
Delta R.T. -0.00 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

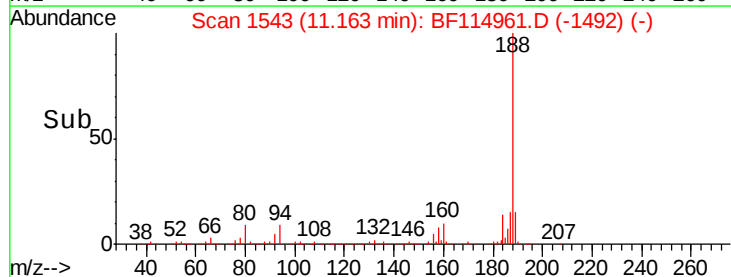
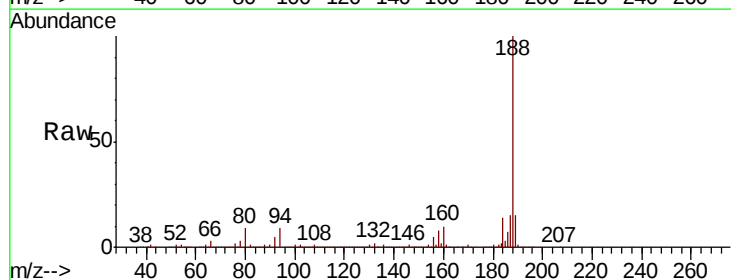
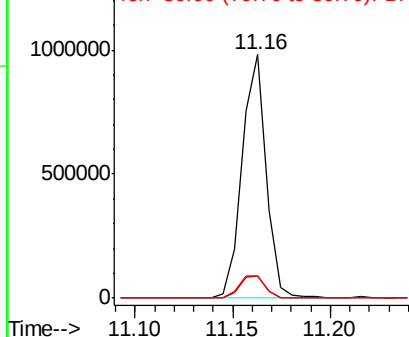
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 835822 |       |       |
| 94      | 9.3   |        | 8.1   | 12.1  |
| 80      | 9.3   |        | 8.6   | 12.8  |

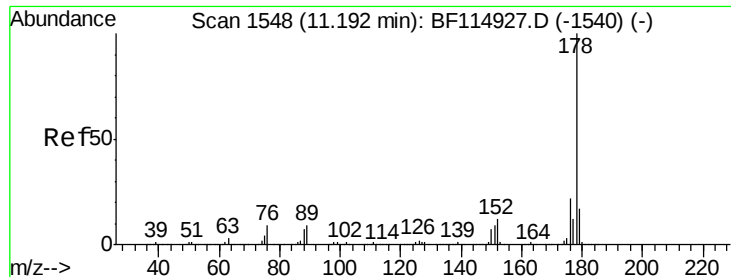
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





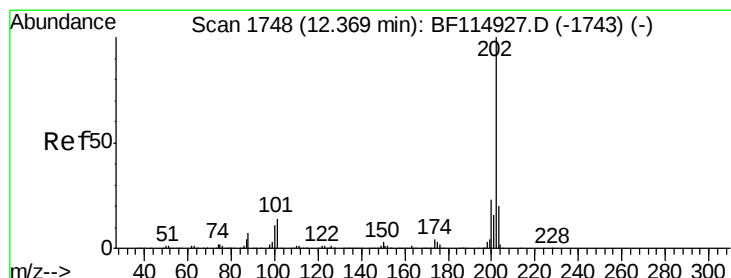
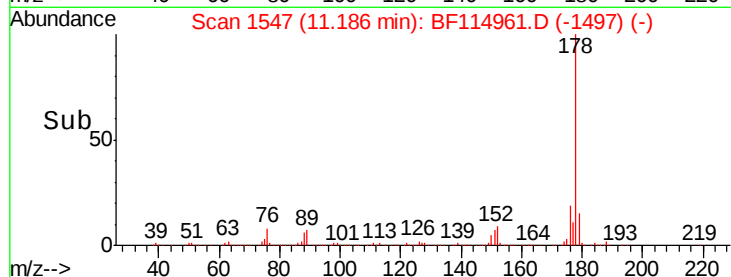
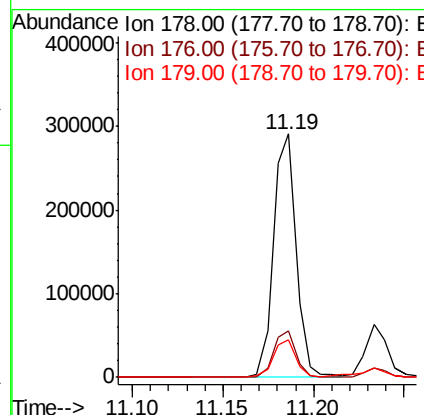
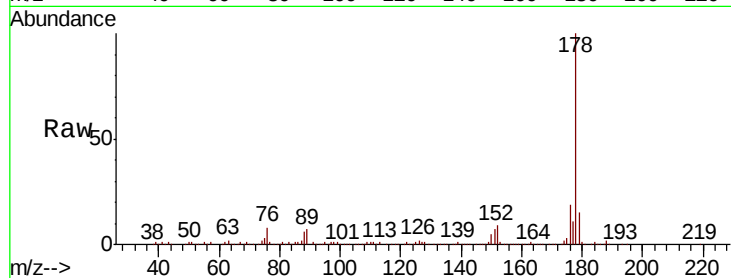
#71  
Phenanthrene  
Concen: 6.248 ng  
RT: 11.19 min Scan# 1547  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 17.4  | 26.2  |
| 179     | 15.2  | 13.6  | 20.4  |

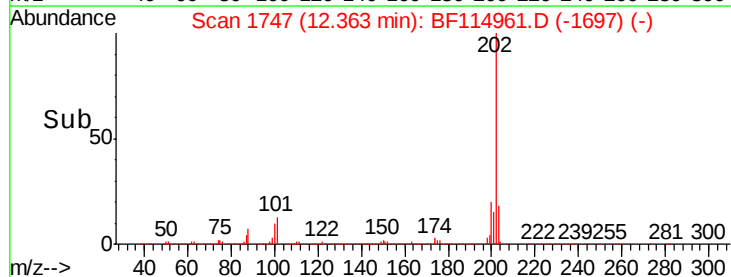
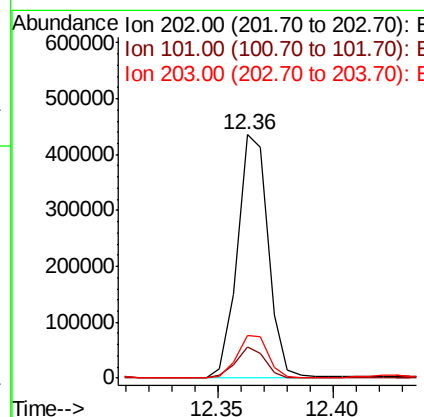
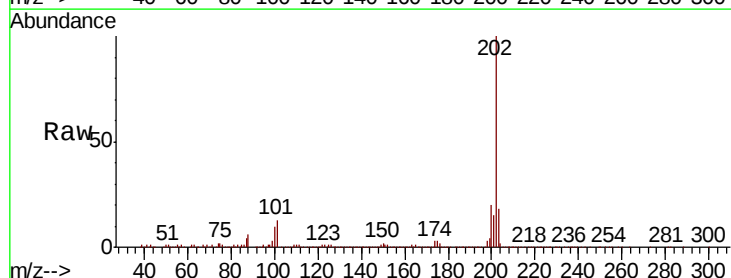
Manual Integrations  
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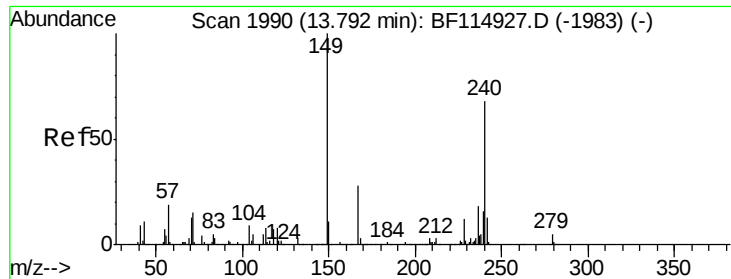
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6/12/2019 9:09:07 AM



#75  
Fluoranthene  
Concen: 9.654 ng  
RT: 12.36 min Scan# 1747  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.0  | 0.0   | 34.3  |
| 203     | 17.7  | 0.0   | 39.6  |





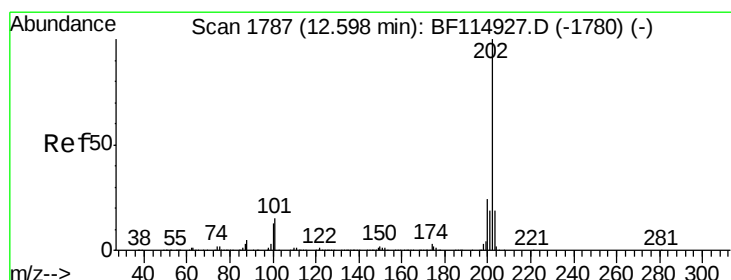
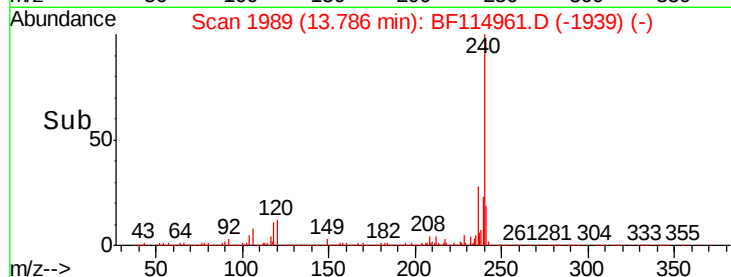
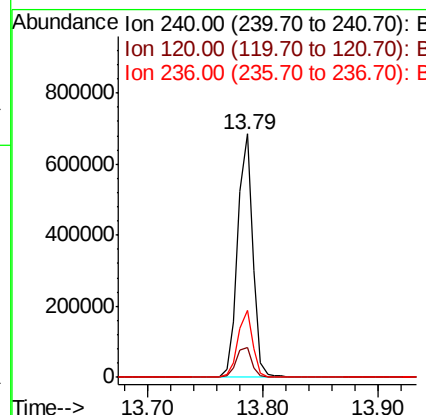
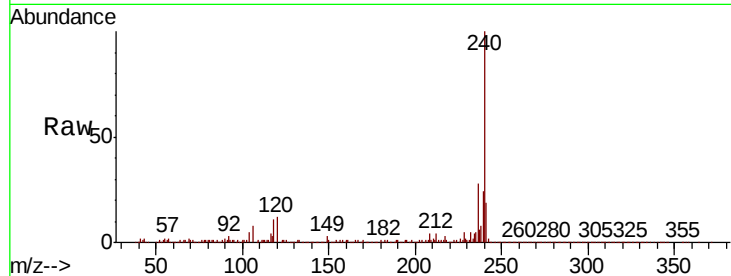
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.79 min Scan# 1989  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.3  | 9.2   | 13.8  |
| 236     | 27.7  | 21.7  | 32.5  |

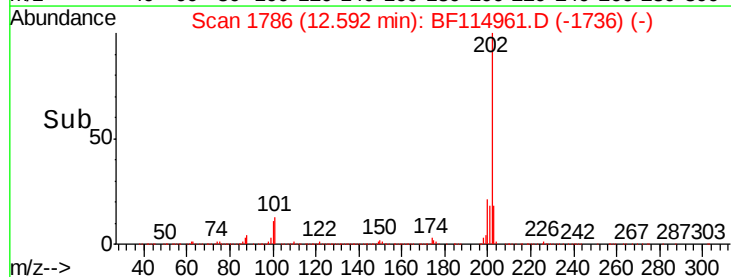
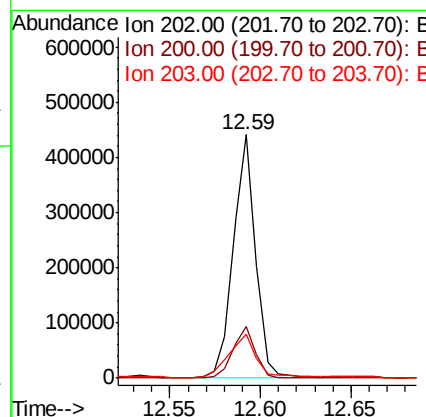
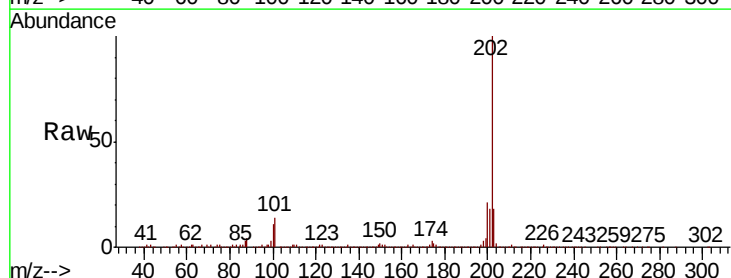
Manual Integrations  
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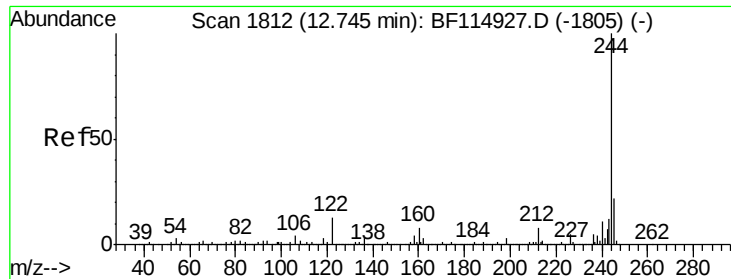
mohammad  
6/12/2019 9:09:07 AM



#78  
Pyrene  
Concen: 6.992 ng  
RT: 12.59 min Scan# 1786  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 18.9  | 28.3  |
| 203     | 18.2  | 15.2  | 22.8  |





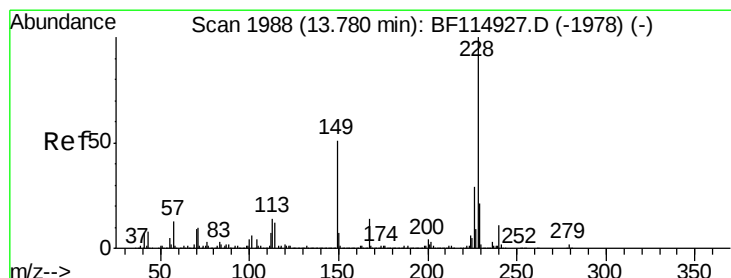
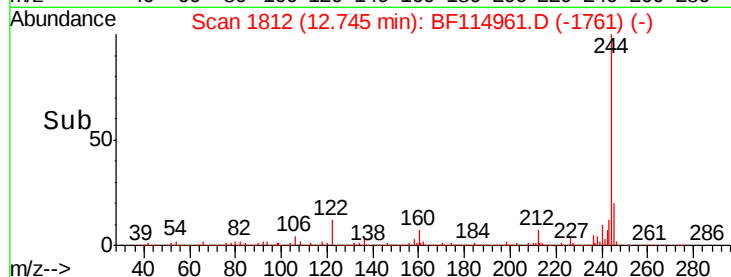
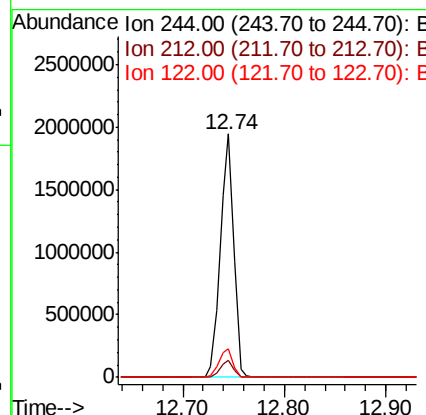
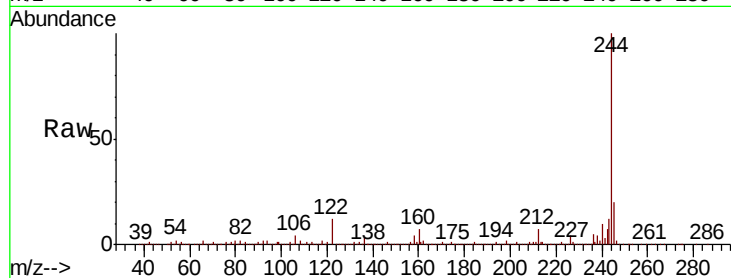
#79  
 Terphenyl-d14  
 Concen: 57.752 ng  
 RT: 12.74 min Scan# 1812  
 Delta R.T. -0.00 min  
 Lab File: BF114961.D  
 Acq: 11 Jun 2019 23:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.2   | 9.2   |
| 122     | 11.8  | 10.2  | 15.4  |

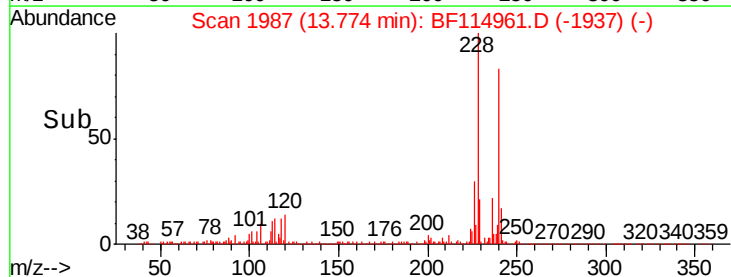
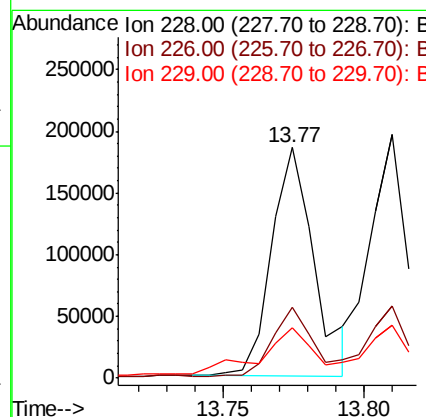
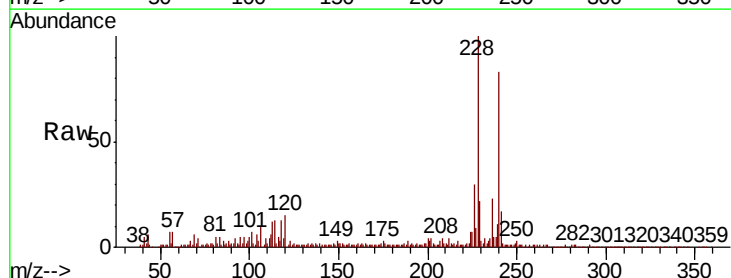
Manual Integrations  
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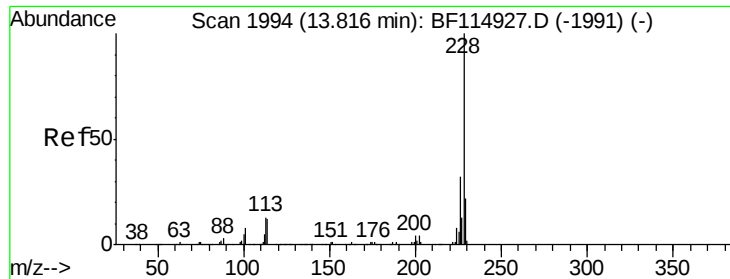
mohammad  
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#81  
 Benzo(a)anthracene  
 Concen: 4.244 ng  
 RT: 13.77 min Scan# 1987  
 Delta R.T. -0.01 min  
 Lab File: BF114961.D  
 Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 22.8  | 34.2  |
| 229     | 21.8  | 16.6  | 25.0  |





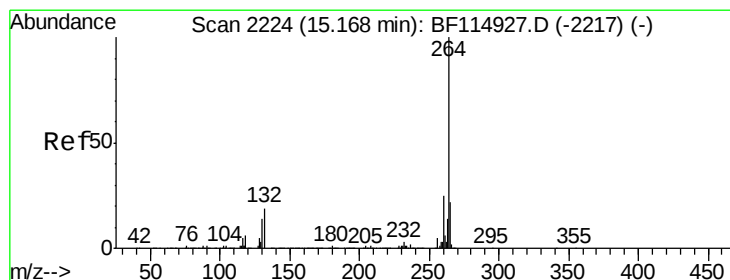
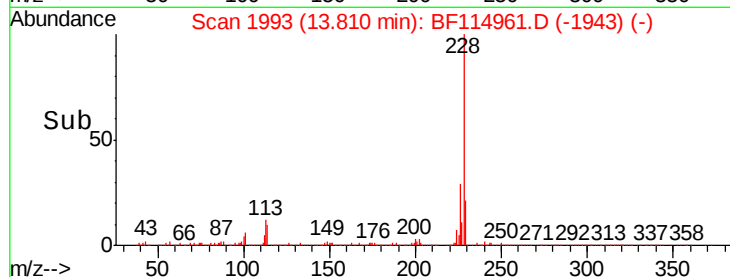
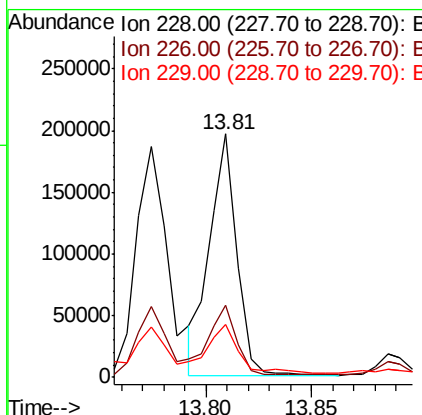
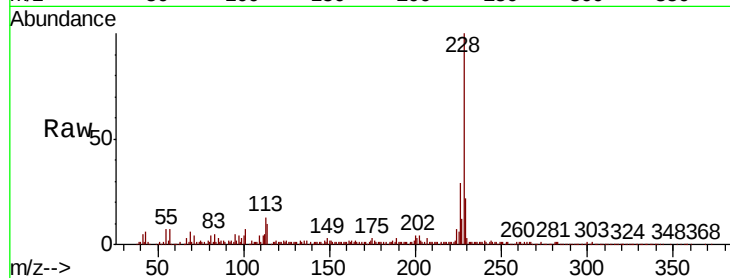
#83  
Chrysene  
Concen: 3.841 ng  
RT: 13.81 min Scan# 1993  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 25.8  | 38.8  |
| 229     | 22.0  | 17.2  | 25.8  |

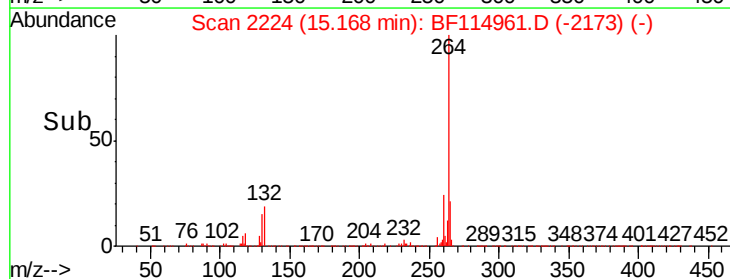
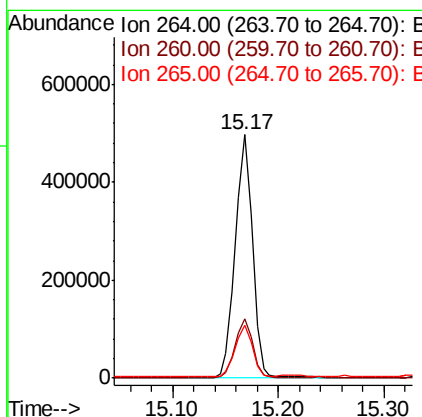
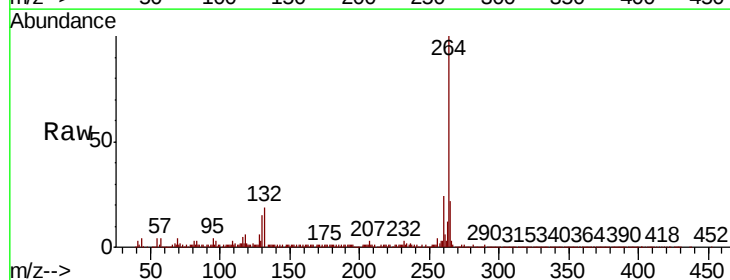
Manual Integrations  
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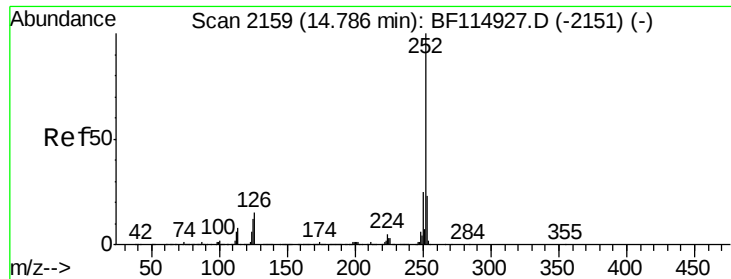
mohammad  
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.17 min Scan# 2224  
Delta R.T. -0.00 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.7  | 29.5  |
| 265     | 21.6  | 17.5  | 26.3  |





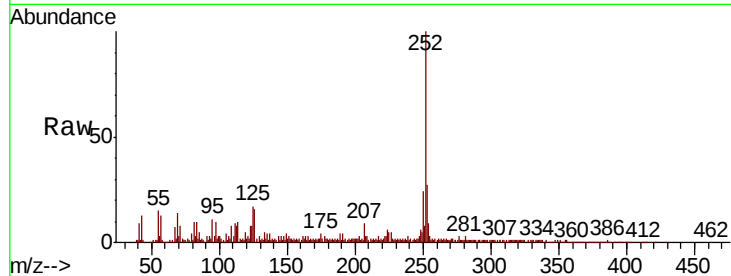
#88  
Benzo(b)fluoranthene  
Concen: 5.935 ng m  
RT: 14.78 min Scan# 2158  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 18.6  | 28.0  |
| 125     | 17.0  | 9.5   | 14.3  |

Manual Integrations  
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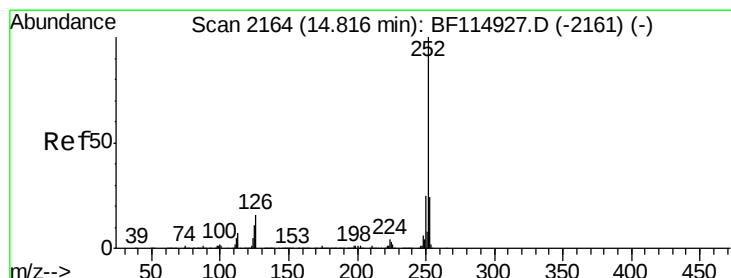
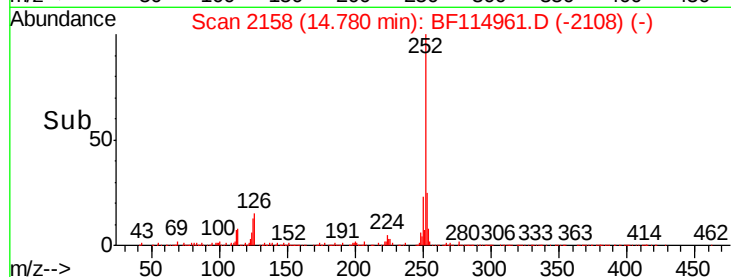
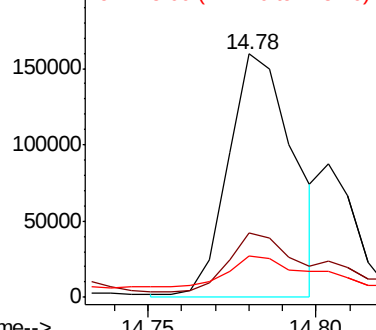


Abundance

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: 2.160 ng m  
RT: 14.80 min Scan# 2162  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

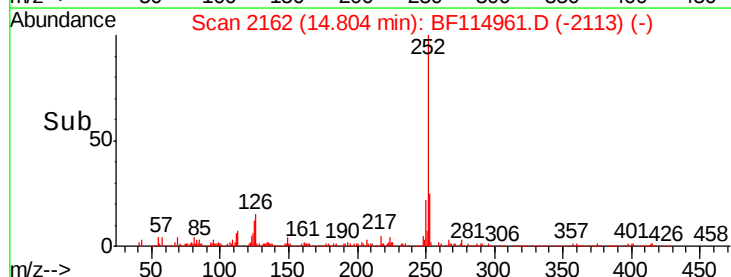
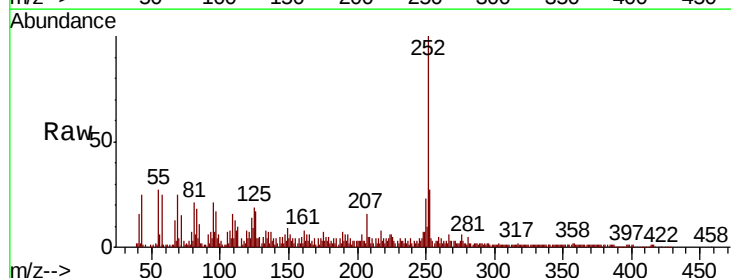
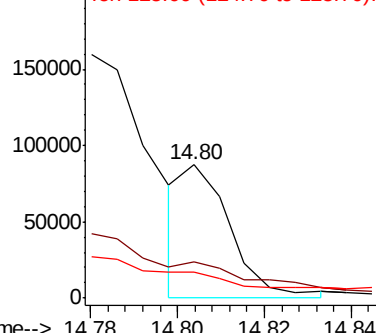
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.4  | 18.6  | 28.0  |
| 125     | 19.3  | 9.2   | 13.8  |

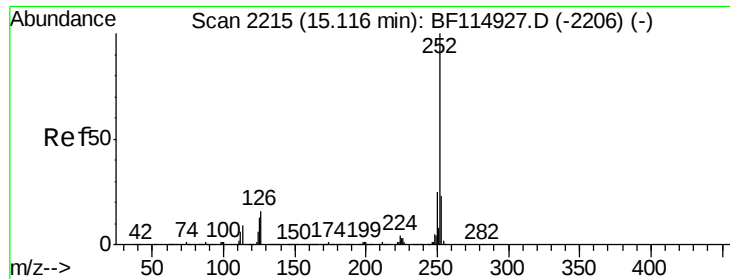
Abundance

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





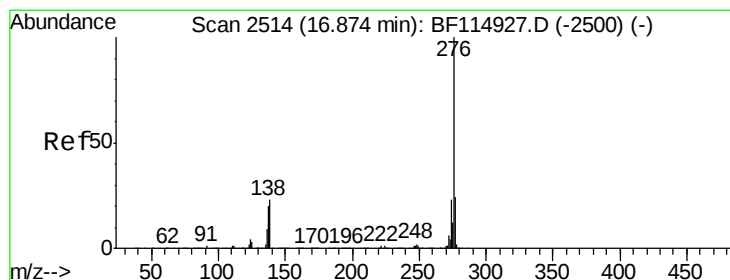
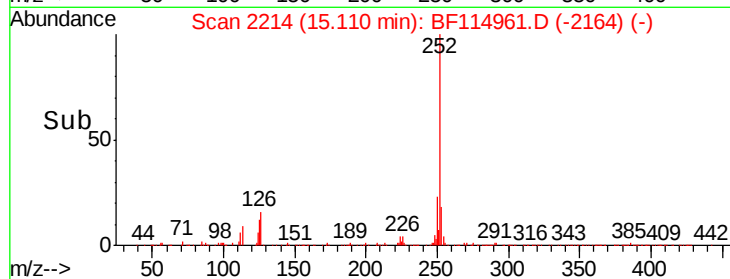
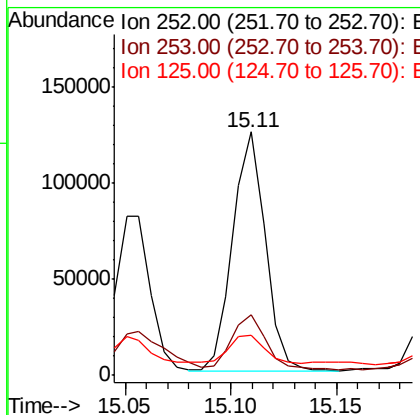
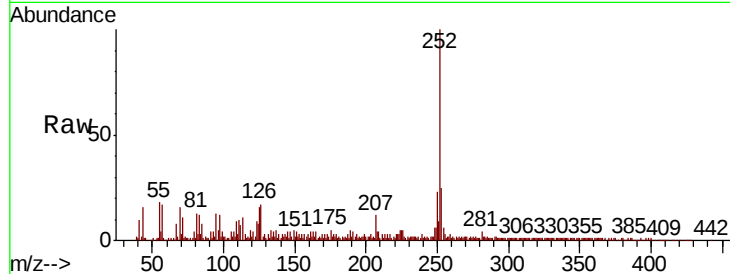
#90  
Benzo(a)pyrene  
Concen: 4.277 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-041-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 18.2  | 27.2  |
| 125     | 16.5  | 10.1  | 15.1  |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.645 ng  
RT: 16.86 min Scan# 2512  
Delta R.T. -0.01 min  
Lab File: BF114961.D  
Acq: 11 Jun 2019 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.1  | 19.0  | 28.6  |
| 138     | 29.3  | 18.7  | 28.1  |

