

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
 Data File : BF115675.D  
 Acq On : 19 Jul 2019 15:14  
 Operator : HP/JU  
 Sample : K3874-05  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HJDC-GRABE

Manual Integrations  
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mohammad  
 7/22/2019 10:01:36 AM

Quant Time: Jul 19 15:45:06 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  | 178861   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 650380   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.92  | 164  | 265946   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.40 | 188  | 421898   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.05 | 240  | 338285   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.53 | 264  | 297673   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 724314   | 66.24  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.51  | 99   | 931487   | 67.13  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 553028   | 49.44  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 172153   | 55.46  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.24  | 172  | 957688   | 63.03  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.99 | 244  | 785158   | 42.83  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 50) Dimethylphthalate          | 9.63  | 163  | 159797   | 7.986  | ng    | 99       |
| 71) Phenanthrene               | 11.43 | 178  | 249488   | 11.536 | ng    | 96       |
| 72) Anthracene                 | 11.48 | 178  | 45621    | 2.041  | ng    | 98       |
| 75) Fluoranthene               | 12.62 | 202  | 515455   | 22.555 | ng    | 99       |
| 78) Pyrene                     | 12.85 | 202  | 459571   | 16.035 | ng    | 97       |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 234899   | 10.540 | ng    | 99       |
| 83) Chrysene                   | 14.07 | 228  | 246315   | 11.010 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 36225    | 2.394  | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 17.00 | 276  | 104477   | 5.497  | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 15.09 | 252  | 287932m  | 15.022 | ng    |          |
| 89) Benzo(k)fluoranthene       | 15.12 | 252  | 88773m   | 5.195  | ng    |          |
| 90) Benzo(a)pyrene             | 15.46 | 252  | 166369   | 10.099 | ng    | 97       |
| 92) Benzo(a,h,i)perylene       | 17.46 | 276  | 103486   | 7.174  | ng    | 96       |

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

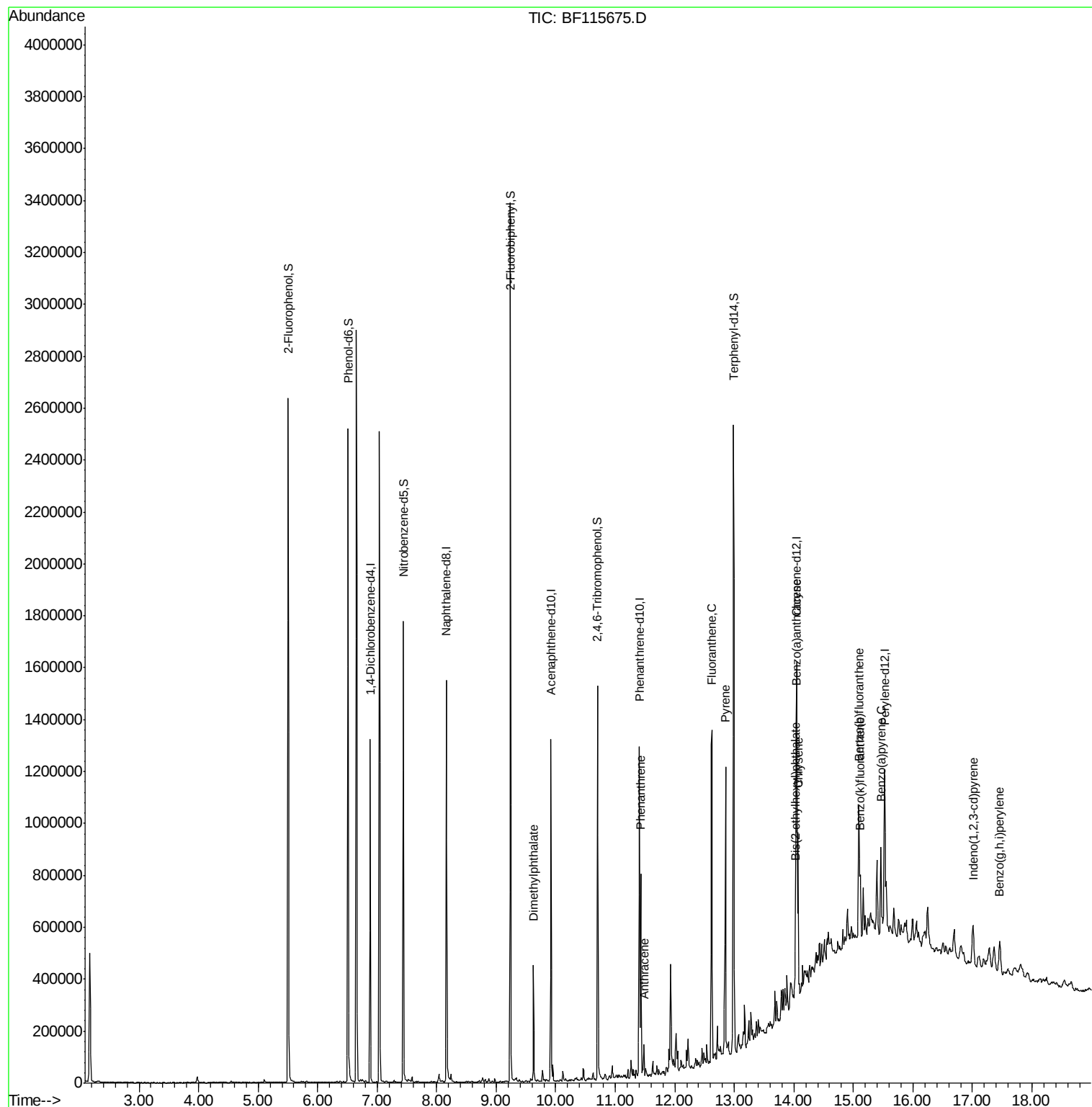
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
Data File : BF115675.D  
Acq On : 19 Jul 2019 15:14  
Operator : HP/JU  
Sample : K3874-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

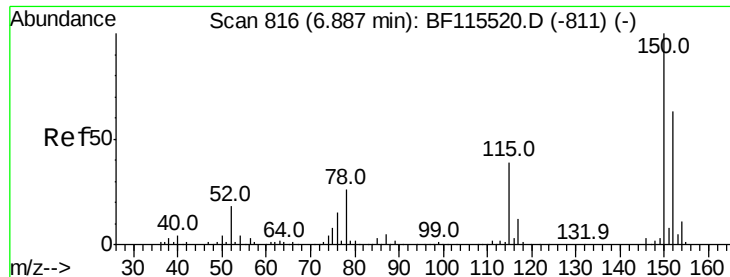
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Jul 19 15:45:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 14:03:52 2019  
Response via : Initial Calibration





#1

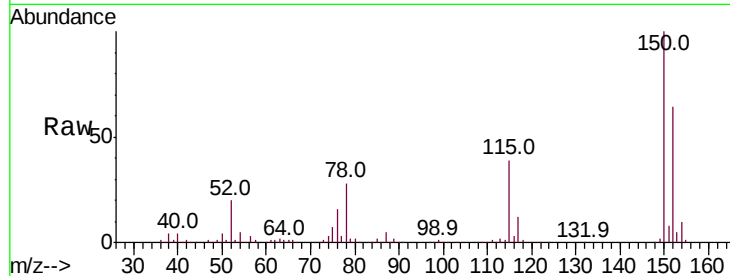
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.2 | 129.7 | 194.5 |
| 115     | 61.2  | 48.2  | 72.4  |

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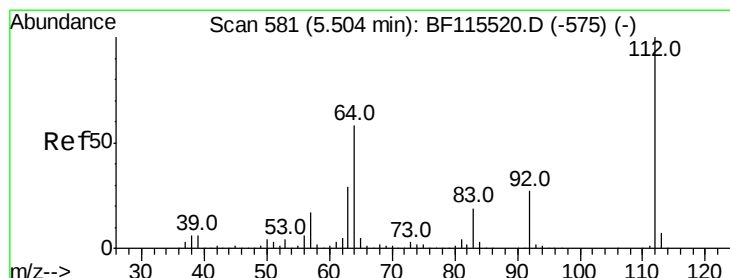
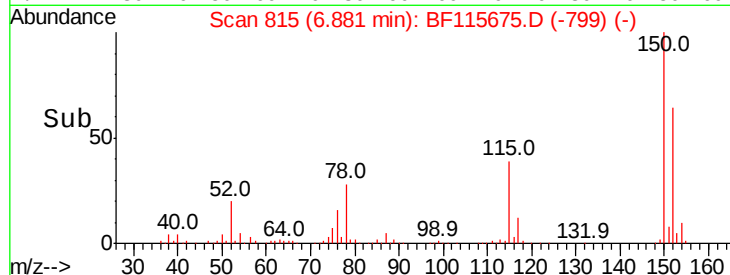
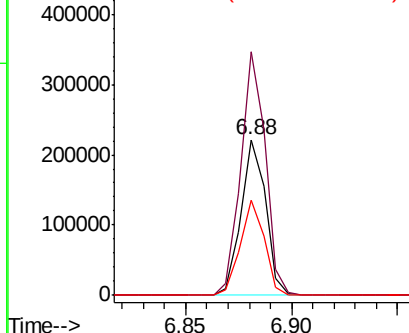


Abundance

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: 66.240 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.00 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

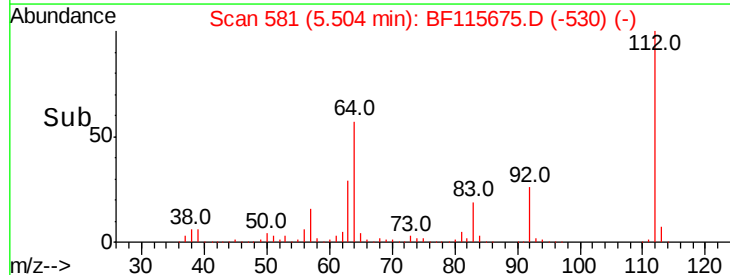
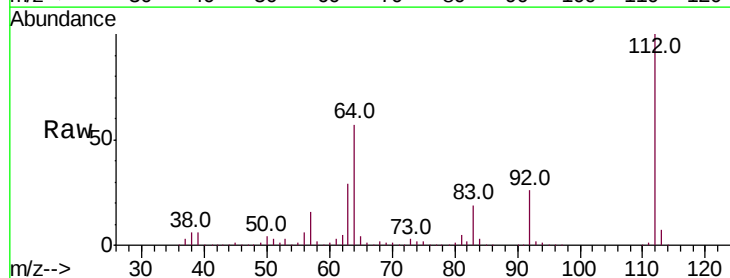
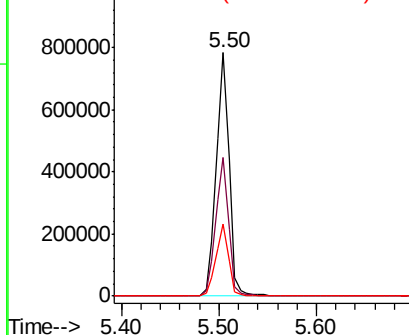
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.0  | 46.8  | 70.2  |
| 63      | 29.4  | 24.1  | 36.1  |

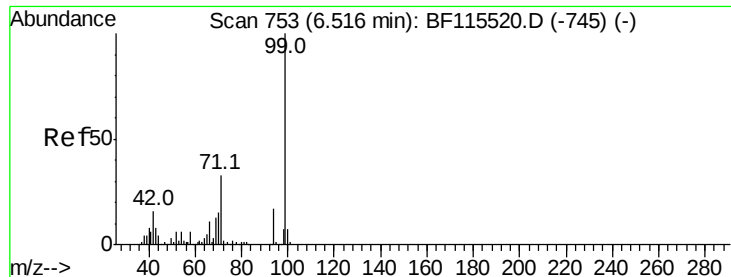
Abundance

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: 67.134 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

Instrument :

BNA\_F

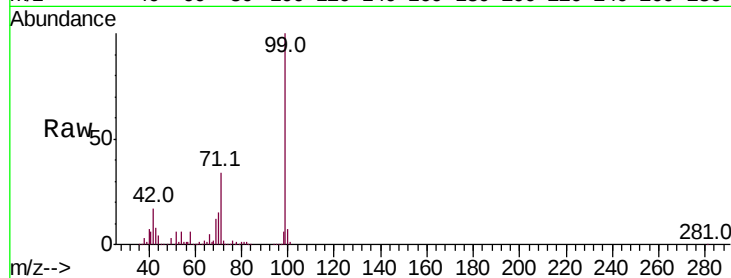
ClientSampleId :

HJDC-GRABE

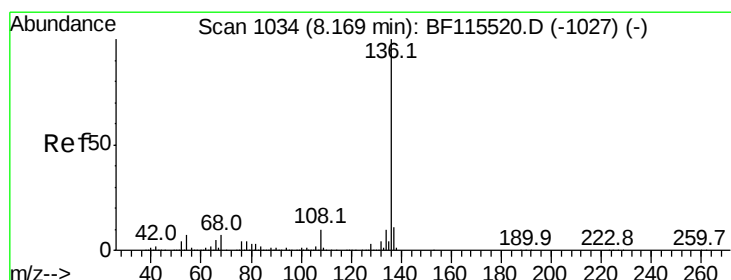
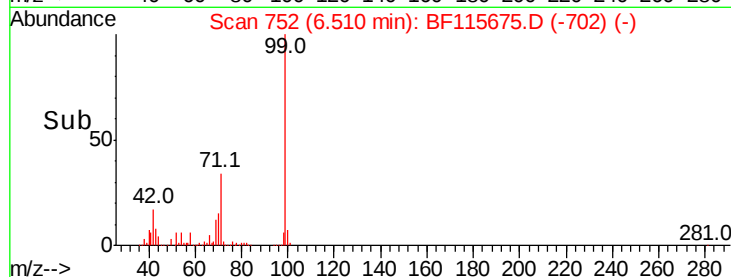
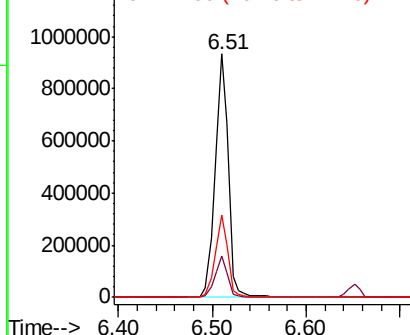
| Tot Ion   | 99    | Resp  | 931487 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.8  | 13.6  | 20.4   |
| 71        | 33.6  | 28.5  | 42.7   |

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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

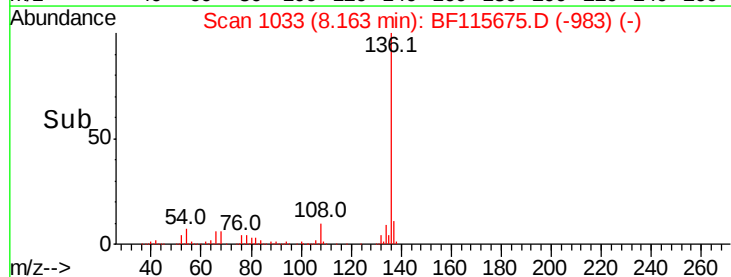
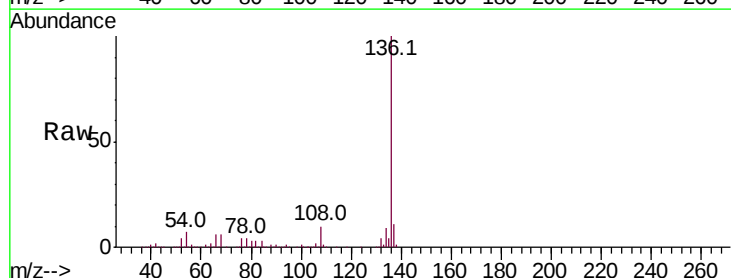
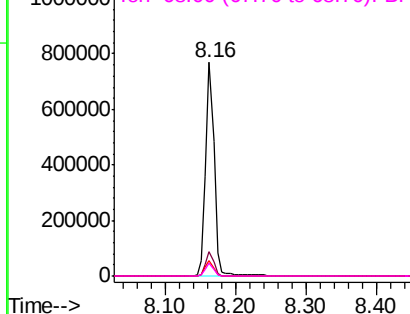
Delta R.T. -0.01 min

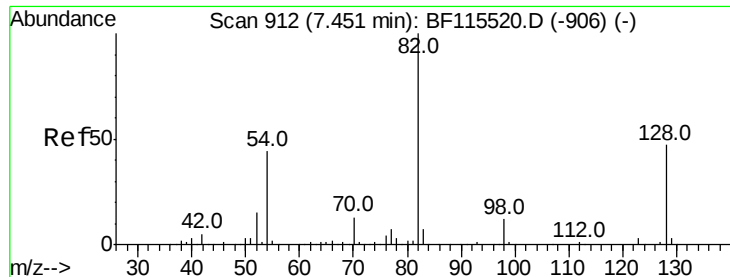
Lab File: BF115675.D

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| Tgt Ion   | 136   | Resp  | 650380 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.4  | 9.0   | 13.4   |
| 54        | 7.1   | 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





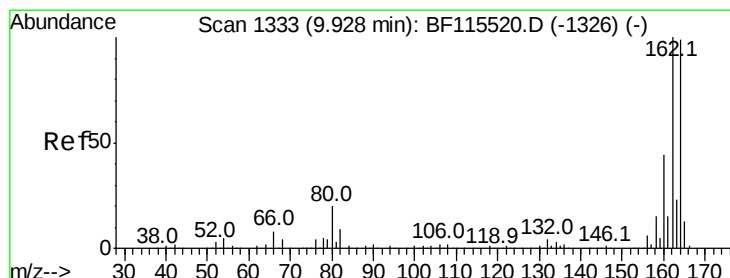
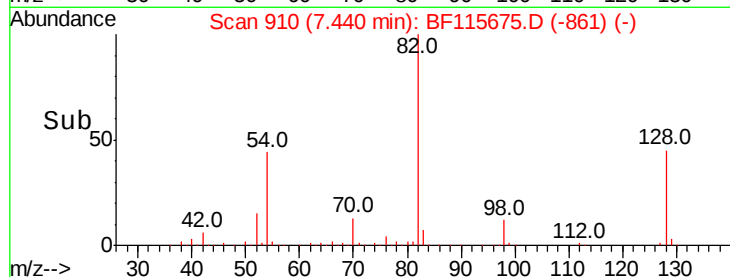
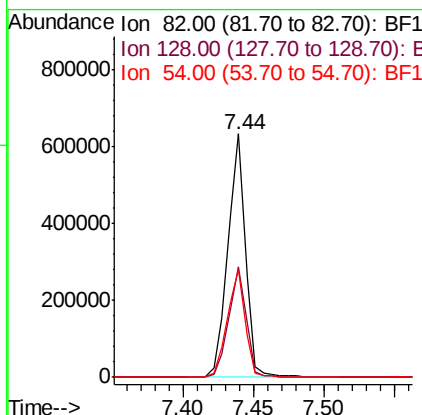
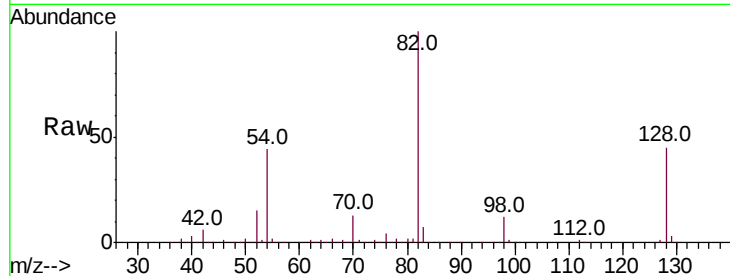
#23  
 Nitrobenzene-d5  
 Concen: 49.443 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. -0.01 min  
 Lab File: BF115675.D  
 Acq: 19 Jul 2019 15:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.2  | 38.6  | 57.8  |
| 54      | 44.1  | 35.6  | 53.4  |

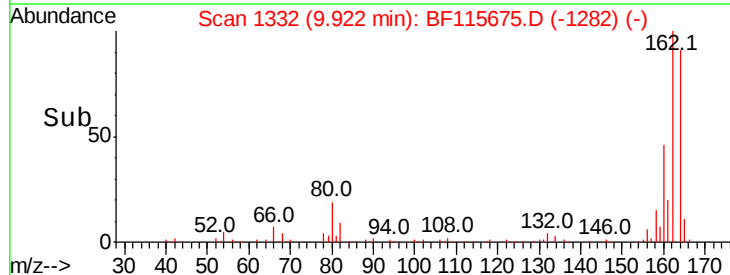
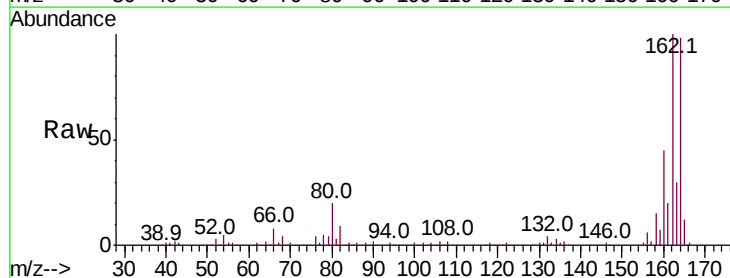
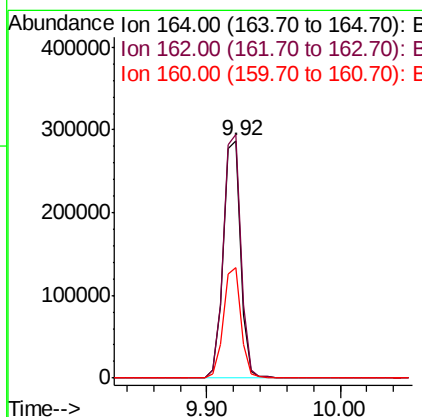
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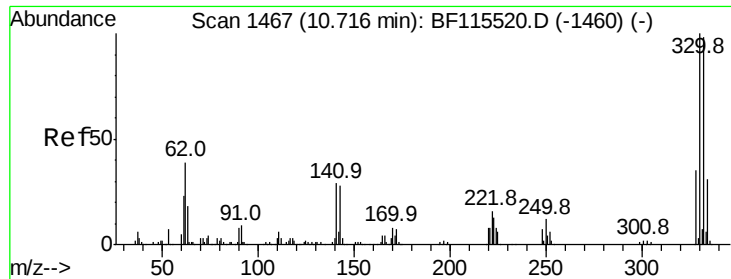
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. -0.01 min  
 Lab File: BF115675.D  
 Acq: 19 Jul 2019 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.5 | 82.9  | 124.3 |
| 160     | 46.6  | 36.8  | 55.2  |





#42

2,4,6-Tribromophenol

Concen: 55.457 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

Instrument :

BNA\_F

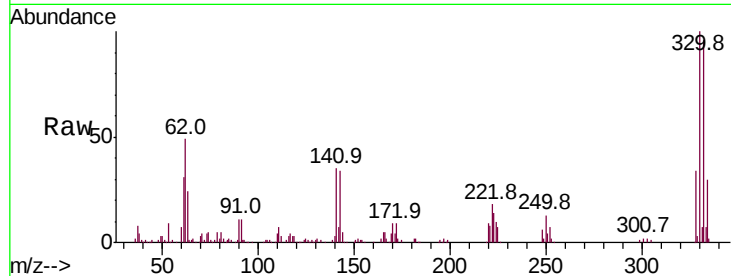
ClientSampleId :

HJDC-GRABE

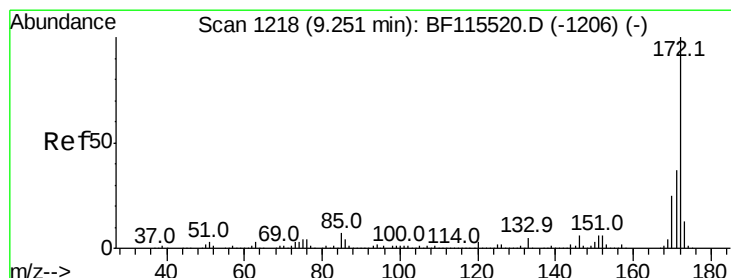
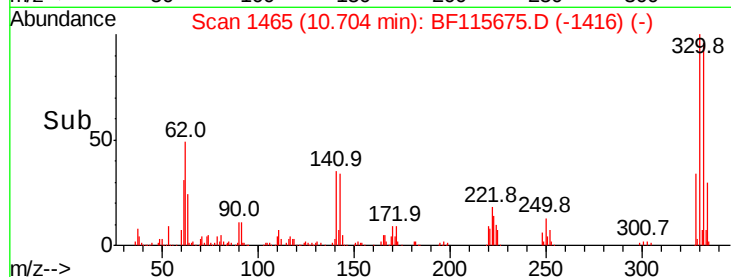
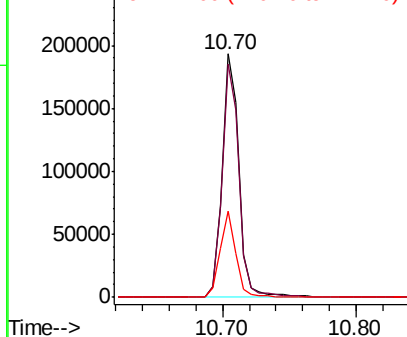
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 172153 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.0  | 77.4  | 116.2  |
| 141       | 33.7  | 22.4  | 33.6#  |

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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: 63.029 ng

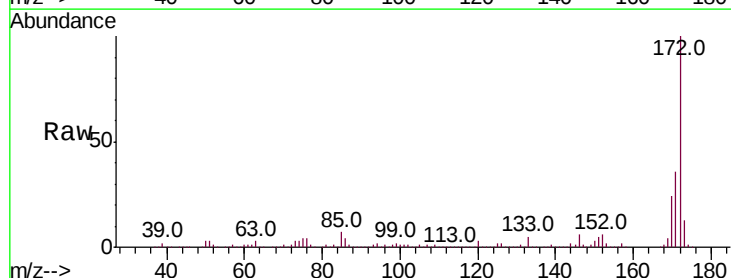
RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

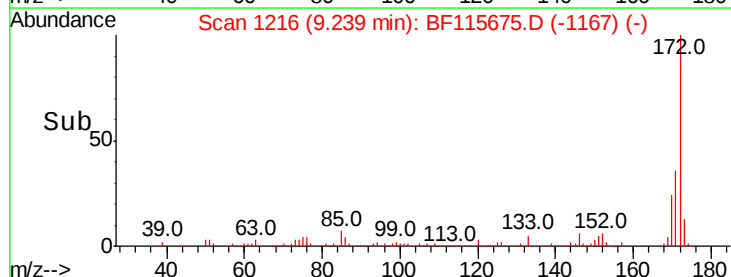
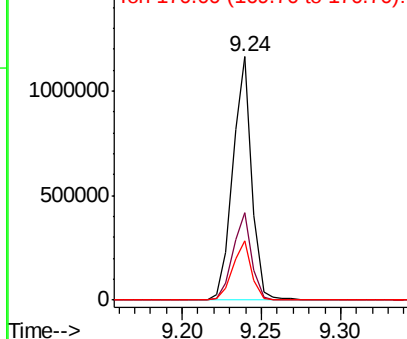
Lab File: BF115675.D

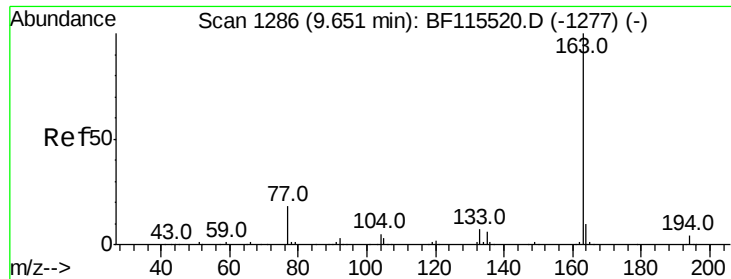
Acq: 19 Jul 2019 15:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 957688 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.1  | 30.6  | 46.0   |
| 170       | 24.4  | 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





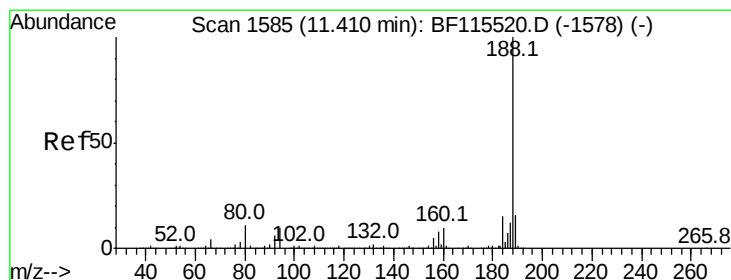
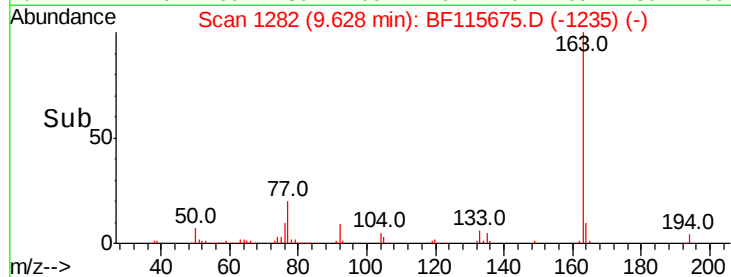
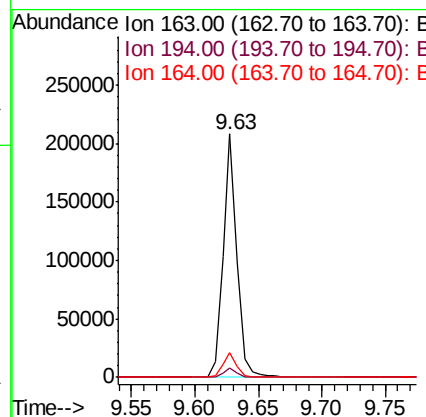
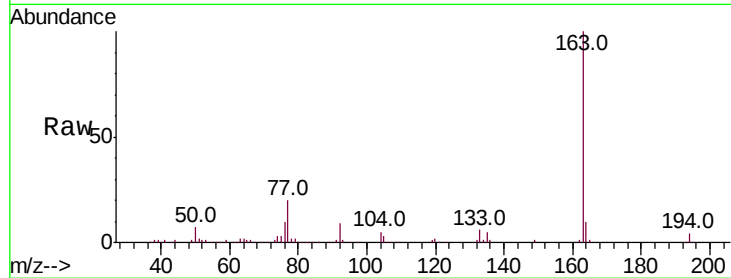
#50  
 Dimethylphthalate  
 Concen: 7.986 ng  
 RT: 9.63 min Scan# 1282  
 Delta R.T. -0.02 min  
 Lab File: BF115675.D  
 Acq: 19 Jul 2019 15:14

Instrument :  
 BNA\_F  
 ClientSampleID :  
 HJDC-GRABE

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 163     | 100  |       |      |       |       |
| 194     | 4.1  |       | 3.3  | 4.9   |       |
| 164     | 10.3 |       | 8.7  | 13.1  |       |

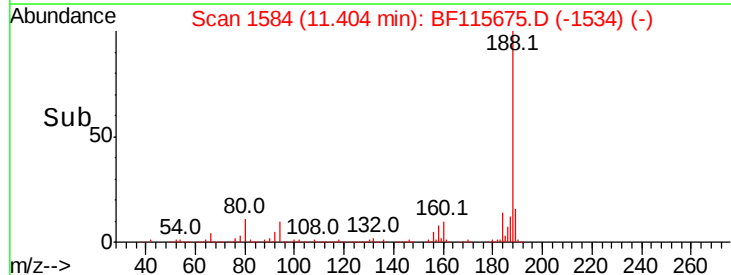
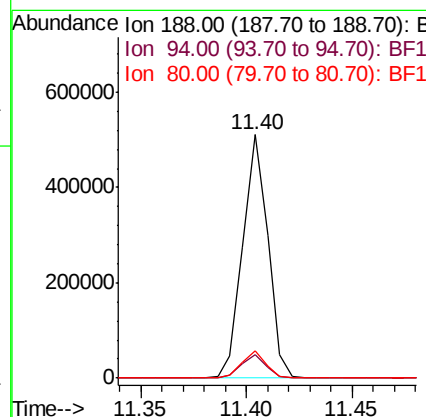
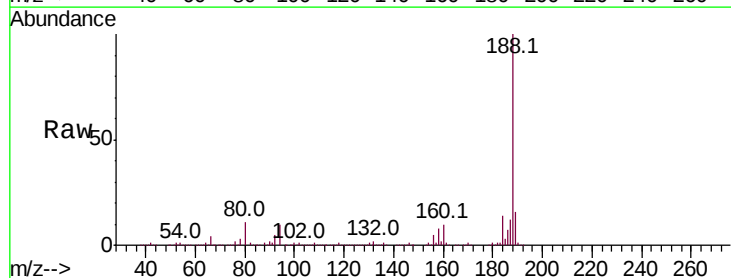
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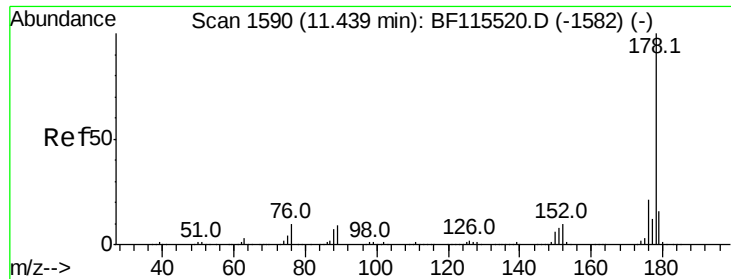
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#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF115675.D  
 Acq: 19 Jul 2019 15:14

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 188     | 100  |       |      |       |       |
| 94      | 9.8  |       | 7.8  | 11.6  |       |
| 80      | 11.2 |       | 8.6  | 13.0  |       |





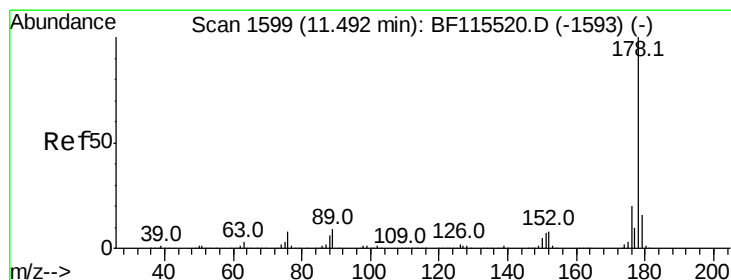
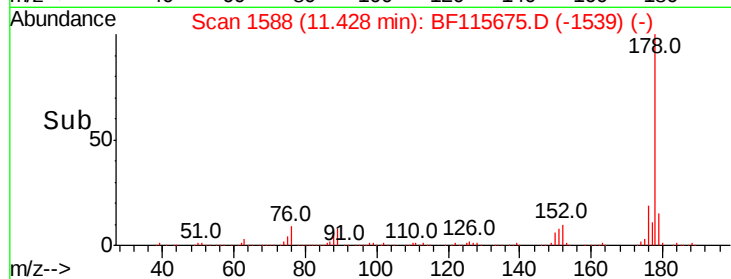
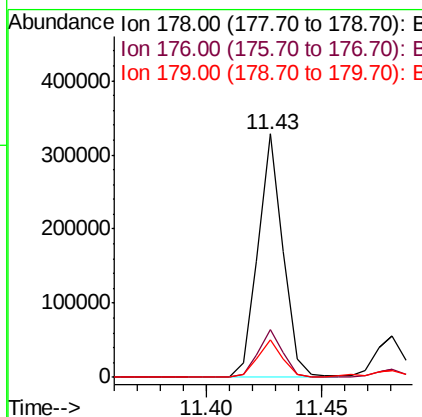
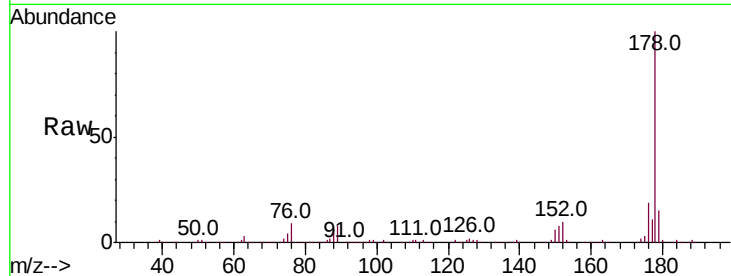
#71  
Phenanthrene  
Concen: 11.536 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 17.2  | 25.8  |
| 179     | 15.3  | 13.5  | 20.3  |

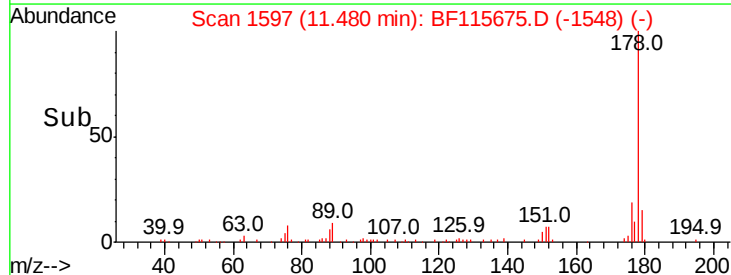
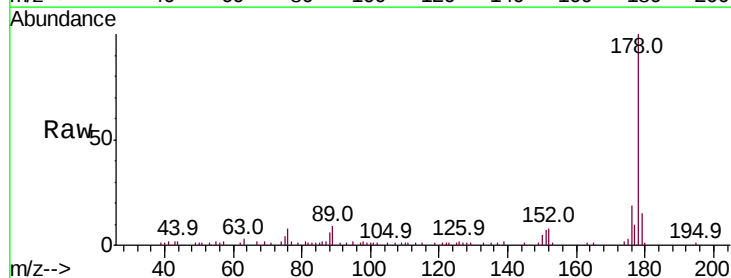
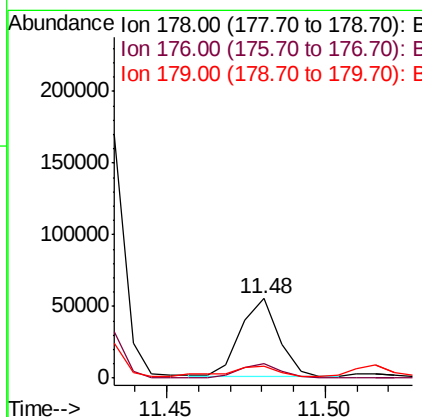
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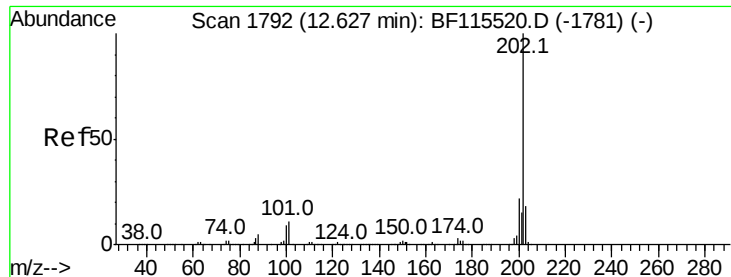
mohammad  
7/22/2019 10:01:36 AM



#72  
Anthracene  
Concen: 2.041 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.9  | 23.9  |
| 179     | 15.1  | 12.7  | 19.1  |





#75

Fluoranthene

Concen: 22.555 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

Instrument :

BNA\_F

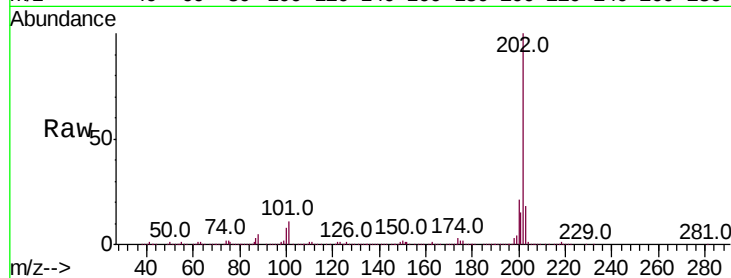
ClientSampleId :

HJDC-GRABE

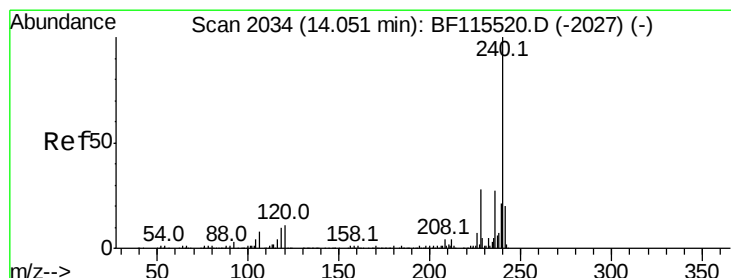
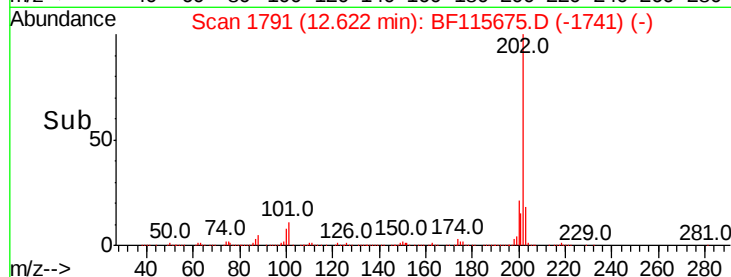
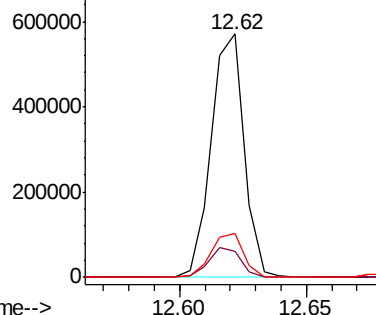
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.8  | 0.0        | 31.4  |
| 203     | 17.8  | 0.0        | 38.1  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2033

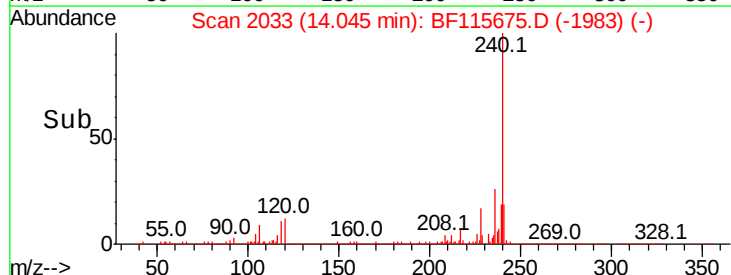
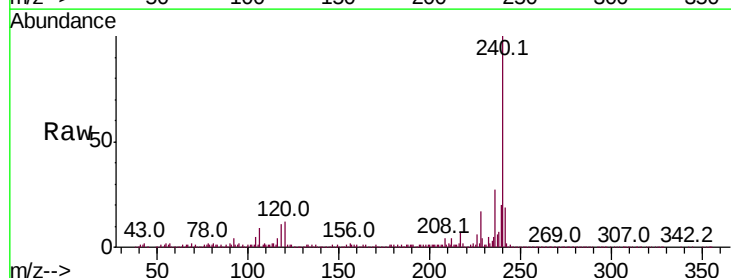
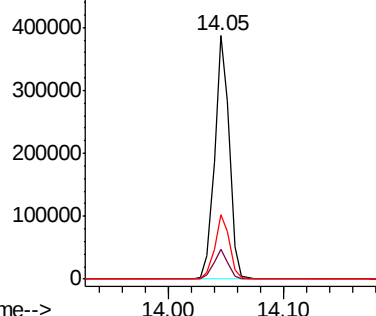
Delta R.T. -0.01 min

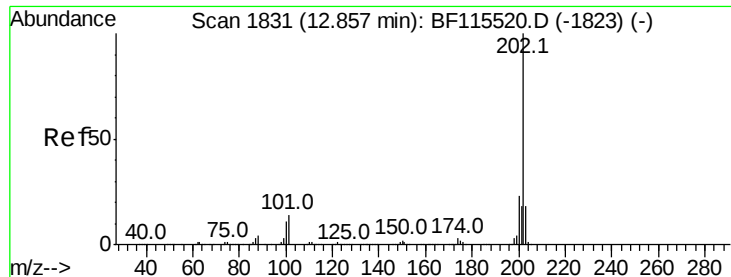
Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 12.4  | 8.6        | 13.0  |
| 236     | 26.5  | 21.3       | 31.9  |

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





#78

Pvrene

Concen: 16.035 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

Instrument :

BNA\_F

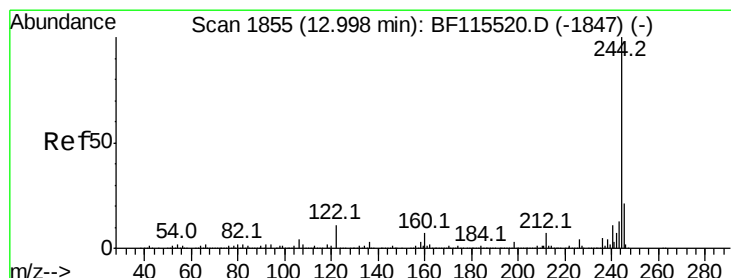
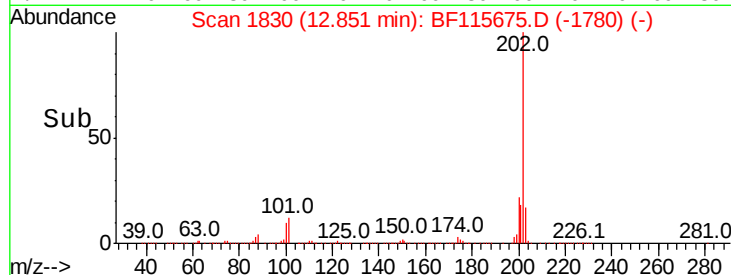
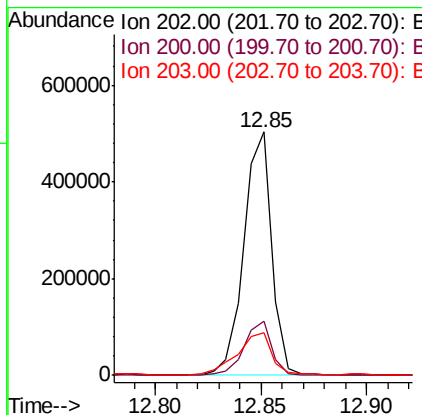
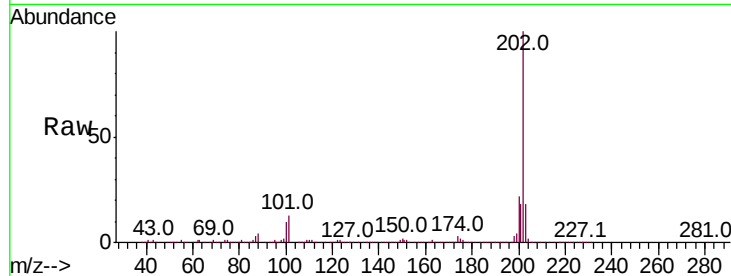
ClientSampleId :

HJDC-GRABE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 459571 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 22.0  | 18.7  | 28.1   |
| 203       | 17.5  | 15.2  | 22.8   |

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#79

Terphenyl-d14

Concen: 42.826 ng

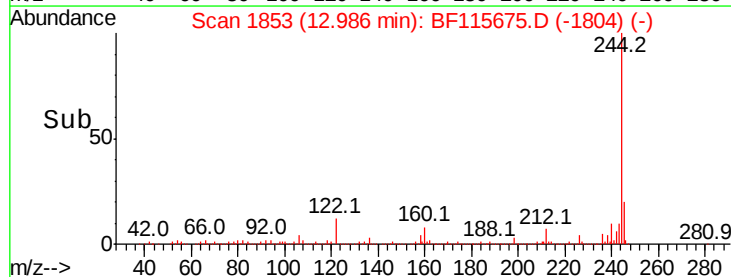
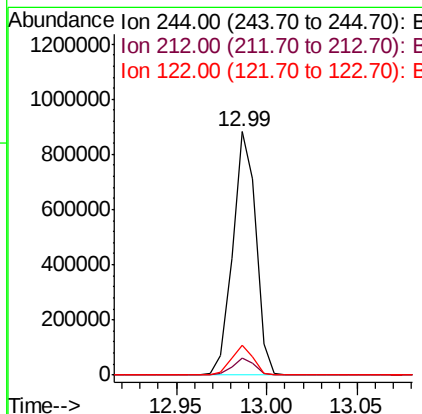
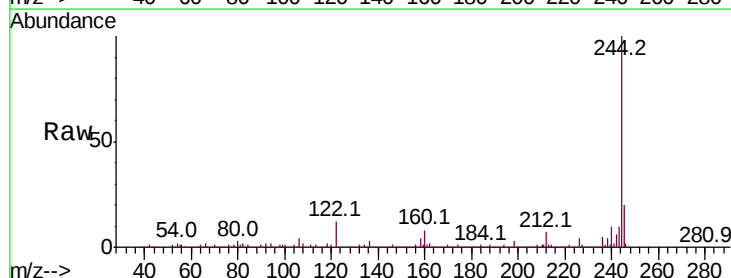
RT: 12.99 min Scan# 1853

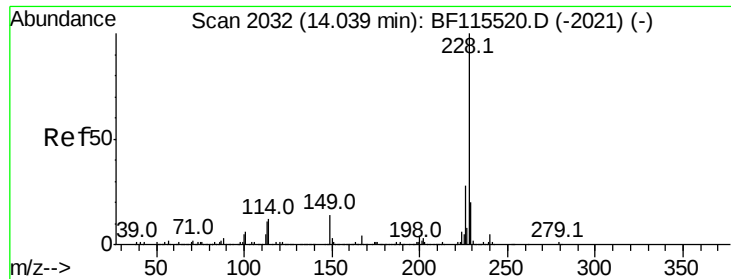
Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 785158 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.8   | 6.0   | 9.0    |
| 122       | 12.4  | 8.6   | 12.8   |





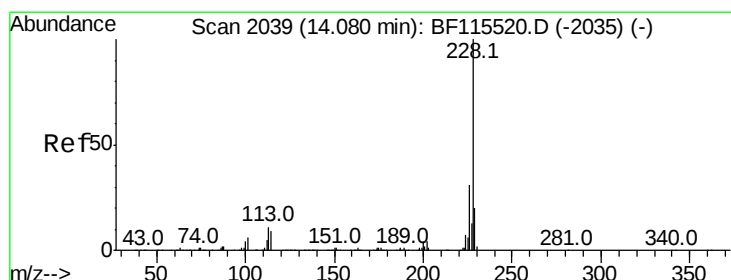
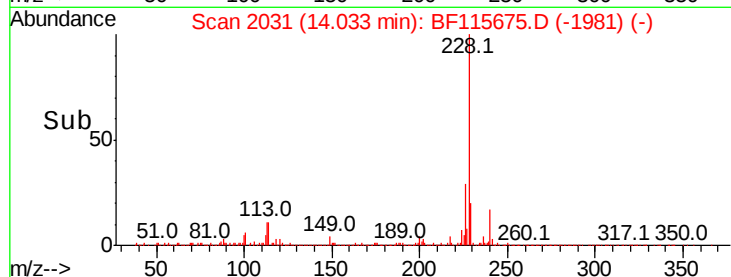
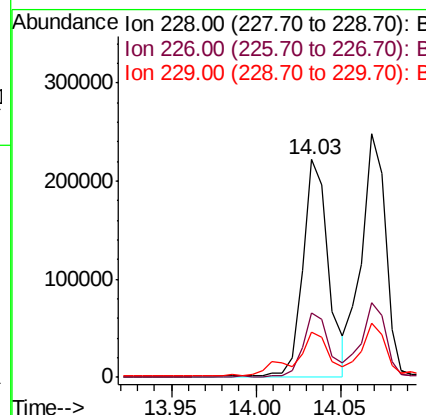
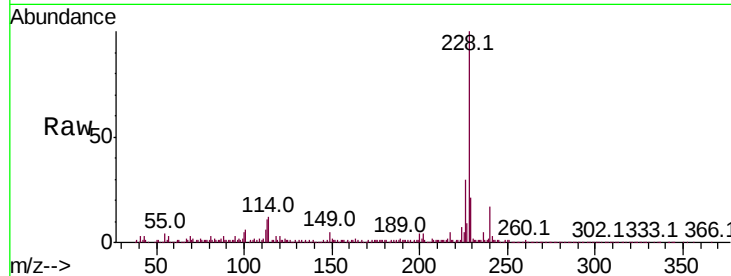
#81  
Benzo(a)anthracene  
Concen: 10.540 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 23.4  | 35.0  |
| 229     | 20.9  | 17.2  | 25.8  |

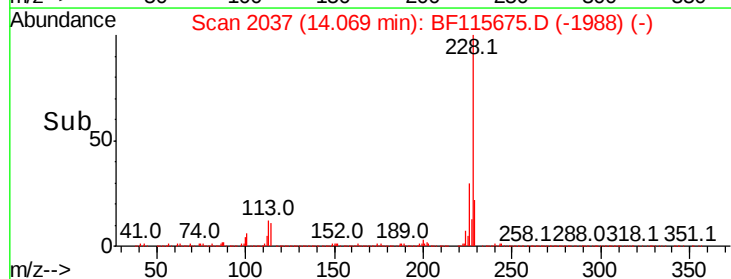
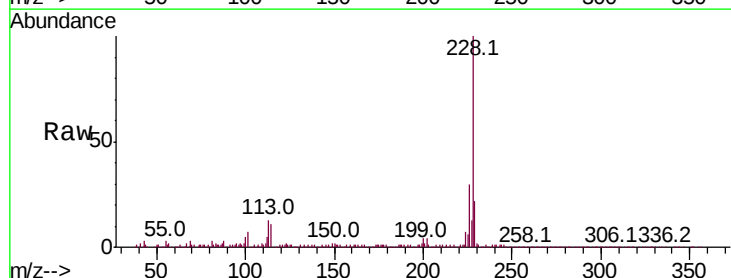
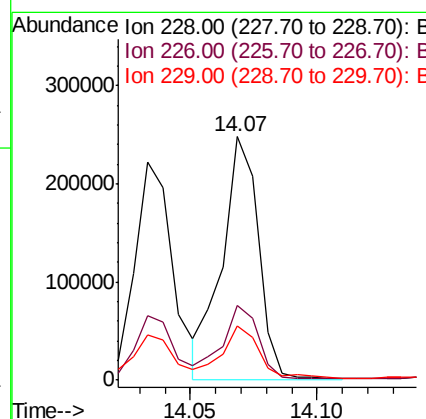
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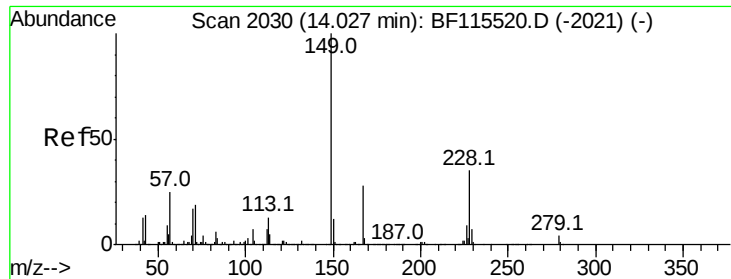
mohammad  
7/22/2019 10:01:36 AM



#83  
Chrysene  
Concen: 11.010 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.7  | 38.5  |
| 229     | 22.5  | 16.6  | 25.0  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.394 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

Instrument :

BNA\_F

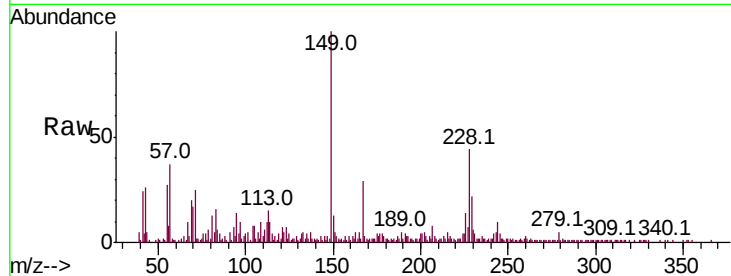
ClientSampleId :

HJDC-GRABE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 36225 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 28.6  | 23.0  | 34.4  |
| 279       | 4.7   | 4.2   | 6.2   |

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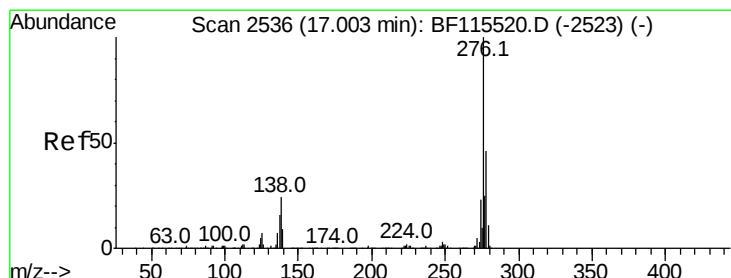
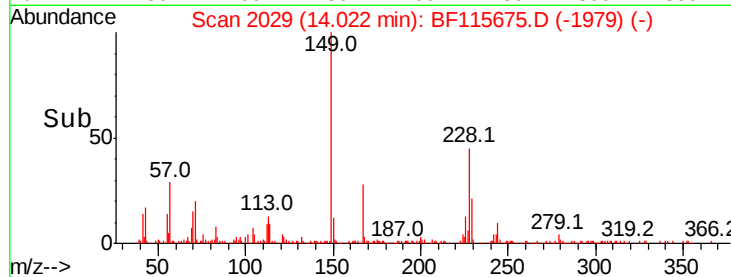
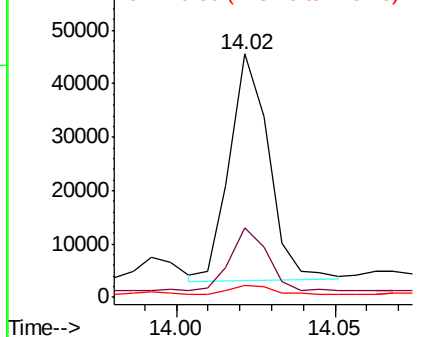


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.497 ng

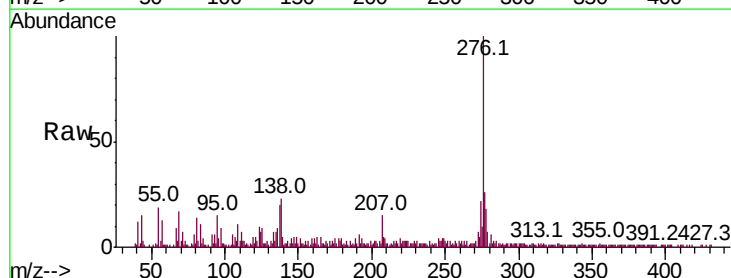
RT: 17.00 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BF115675.D

Acq: 19 Jul 2019 15:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 104477 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 21.9  | 20.2  | 30.2   |
| 277       | 24.8  | 20.4  | 30.6   |

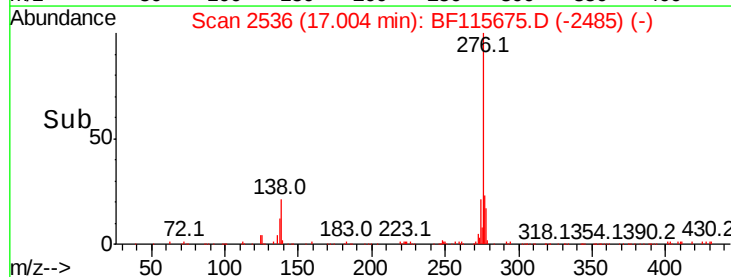
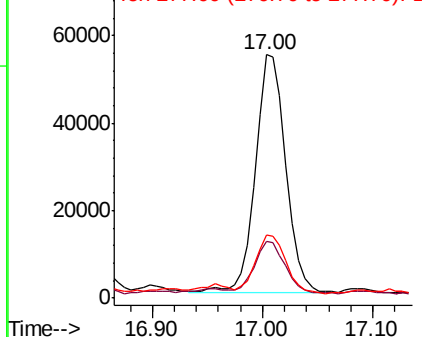


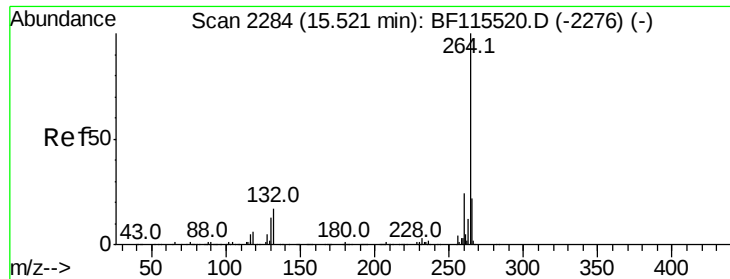
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





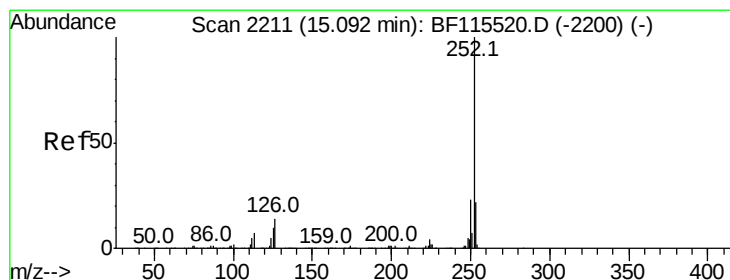
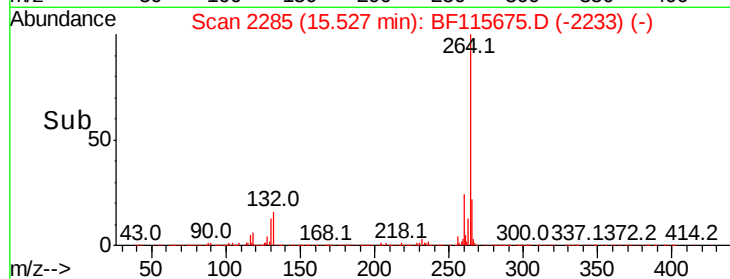
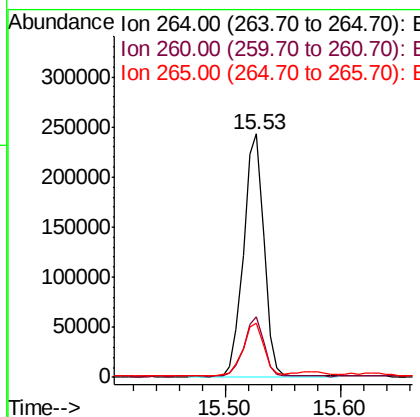
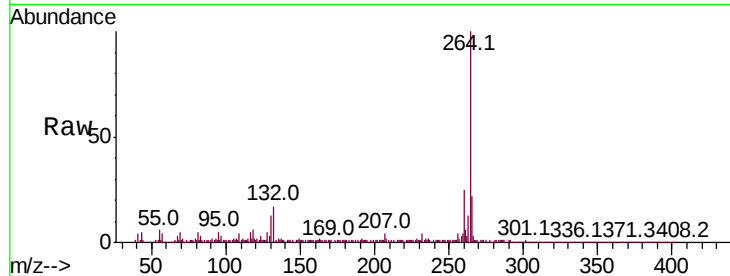
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2285  
Delta R.T. 0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.8  | 29.8  |
| 265     | 22.4  | 17.7  | 26.5  |

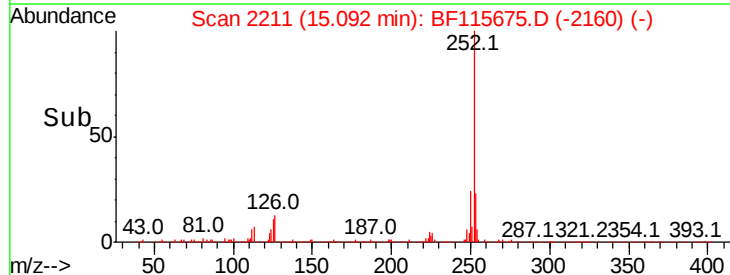
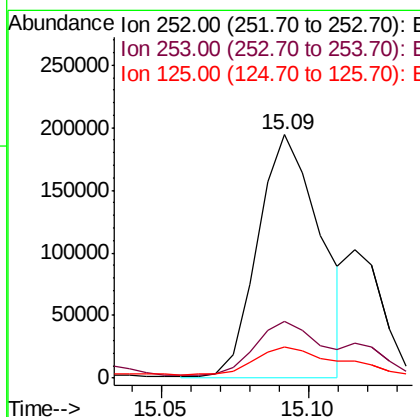
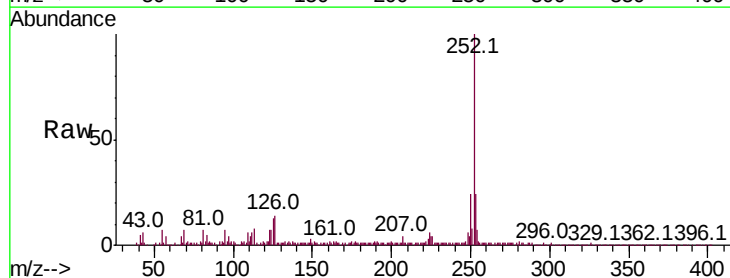
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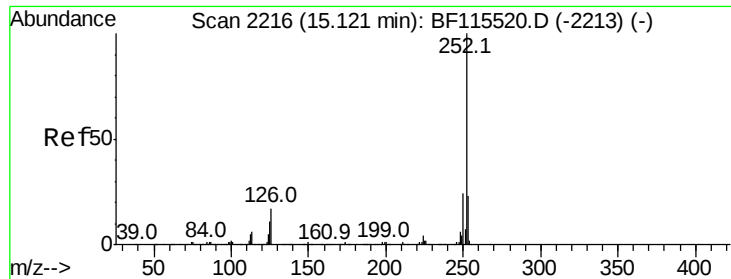
mohammad  
7/22/2019 10:01:36 AM



#88  
Benzo(b)fluoranthene  
Concen: 15.022 ng m  
RT: 15.09 min Scan# 2211  
Delta R.T. 0.00 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.1  | 27.1  |
| 125     | 12.7  | 9.0   | 13.4  |





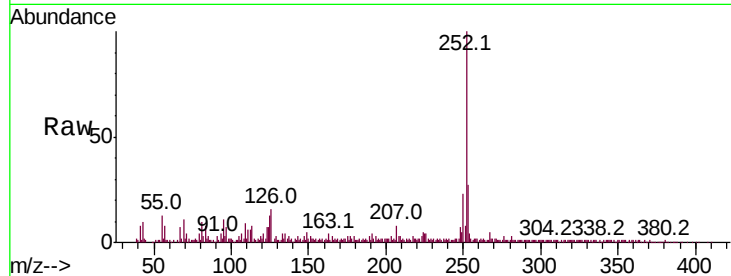
#89  
Benzo(k)fluoranthene  
Concen: 5.195 ng m  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.2  | 18.6  | 28.0  |
| 125     | 13.4  | 9.0   | 13.6  |

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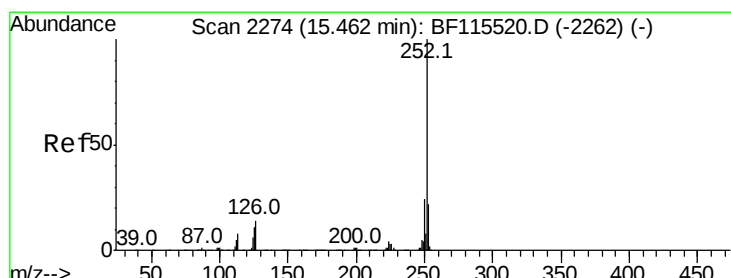
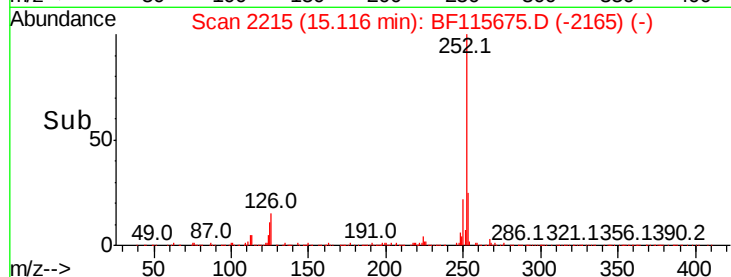
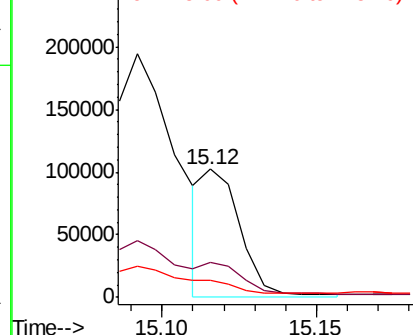


Abundance

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



#90  
Benzo(a)pyrene  
Concen: 10.099 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.00 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

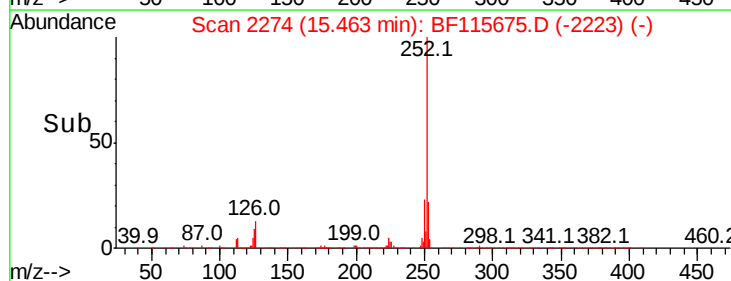
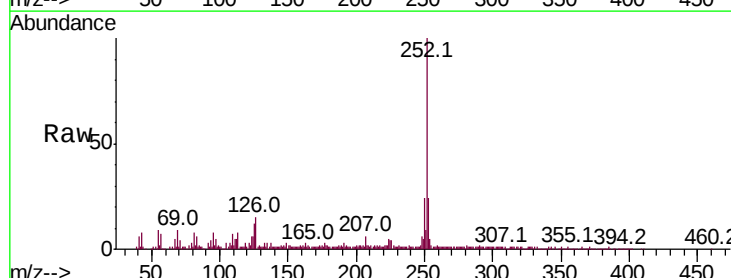
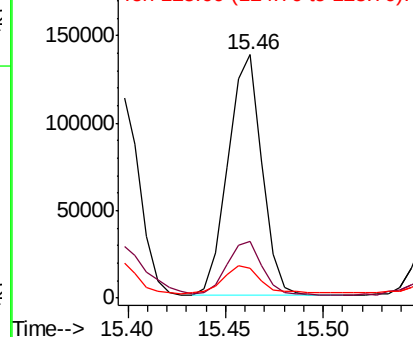
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 12.2  | 9.1   | 13.7  |

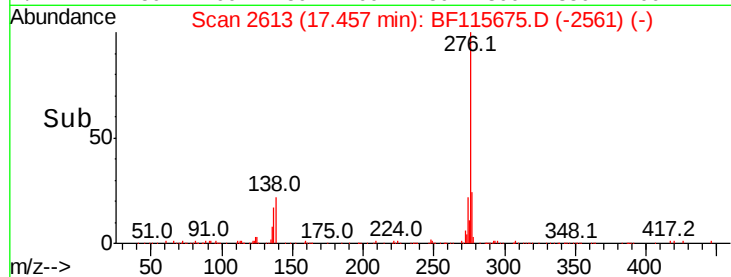
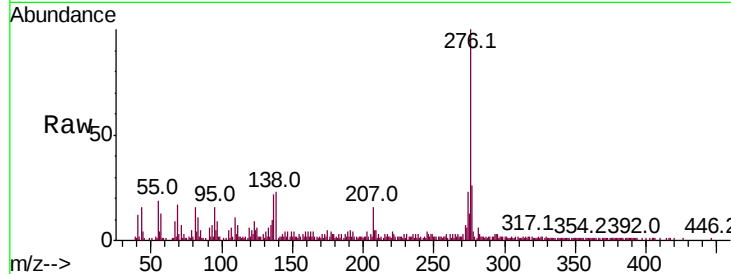
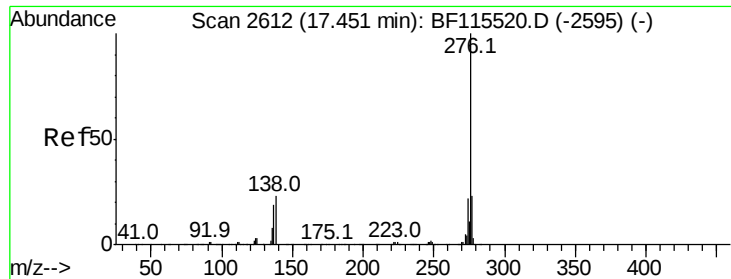
Abundance

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





#92  
Benzo(a,h,i)perylene  
Concen: 7.174 ng  
RT: 17.46 min Scan# 2613  
Delta R.T. 0.01 min  
Lab File: BF115675.D  
Acq: 19 Jul 2019 15:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 103486 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.9  | 19.0  | 28.4   |
| 138       | 23.0  | 17.2  | 25.8   |

Instrument :  
BNA\_F  
ClientSampleId :  
HJDC-GRABE

Manual Integrations  
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7/22/2019 10:01:36 AM

