

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080519\  
 Data File : BF115995.D  
 Acq On : 5 Aug 2019 22:14  
 Operator : HP/JU  
 Sample : K4095-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-080219-A

Manual Integrations  
 APPROVED

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 8/8/2019 4:46:11 PM

Quant Time: Aug 06 04:18:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 141328   | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8          | 8.12  | 136  | 546710   | 20.00  | ng    | -0.01     |
| 39) Acenaphthene-d10        | 9.87  | 164  | 288976   | 20.00  | ng    | -0.02     |
| 64) Phenanthrene-d10        | 11.36 | 188  | 489642   | 20.00  | ng    | -0.02     |
| 76) Chrysene-d12            | 14.00 | 240  | 300810   | 20.00  | ng    | -0.02     |
| 87) Perylene-d12            | 15.47 | 264  | 355511   | 20.00  | ng    | -0.02     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.47  | 112  | 859126   | 101.77 | ng    | 0.00      |
| 7) Phenol-d6                | 6.48  | 99   | 1118095  | 104.97 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 719640   | 75.98  | ng    | -0.01     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 280065   | 99.96  | ng    | -0.02     |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1194030  | 77.39  | ng    | -0.02     |
| 79) Terphenyl-d14           | 12.94 | 244  | 1163935  | 81.53  | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 49) Acenaphthylene          | 9.74  | 152  | 94293    | 3.806  | ng    | Qvalue 99 |
| 50) Dimethylphthalate       | 9.59  | 163  | 112875   | 5.737  | ng    | 100       |
| 71) Phenanthrene            | 11.39 | 178  | 220379   | 8.804  | ng    | 97        |
| 72) Anthracene              | 11.44 | 178  | 68758    | 2.714  | ng    | 99        |
| 75) Fluoranthene            | 12.57 | 202  | 638393   | 24.361 | ng    | 97        |
| 78) Pyrene                  | 12.80 | 202  | 657219   | 28.984 | ng    | 99        |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 337485   | 17.553 | ng    | 94        |
| 83) Chrysene                | 14.03 | 228  | 277449   | 14.864 | ng    | 98        |
| 86) Indeno(1,2,3-cd)pyrene  | 16.93 | 276  | 256149   | 16.339 | ng    | 95        |
| 88) Benzo(b)fluoranthene    | 15.04 | 252  | 512197m  | 24.917 | ng    |           |
| 89) Benzo(k)fluoranthene    | 15.07 | 252  | 123526m  | 6.170  | ng    |           |
| 90) Benzo(a)pyrene          | 15.40 | 252  | 357660   | 19.464 | ng    | 97        |
| 91) Dibenzo(a,h)anthracene  | 16.94 | 278  | 63837    | 4.013  | ng    | # 86      |
| 92) Benzo(g,h,i)perylene    | 17.37 | 276  | 232062   | 14.856 | ng    | 99        |

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

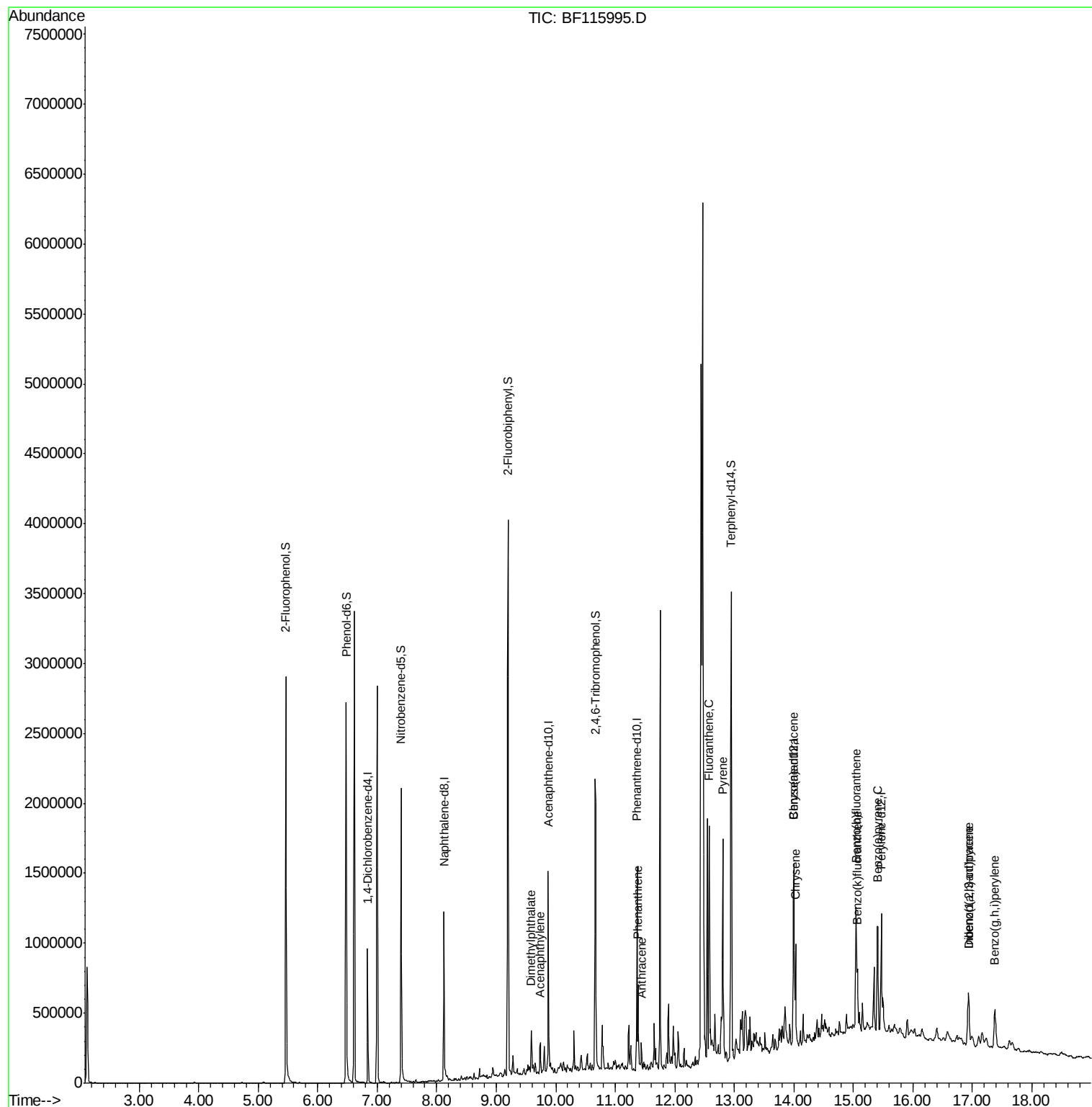
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080519\  
Data File : BF115995.D  
Acq On : 5 Aug 2019 22:14  
Operator : HP/JU  
Sample : K4095-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

Manual Integrations  
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Quant Time: Aug 06 04:18:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 31 15:31:51 2019  
Response via : Initial Calibration





#1

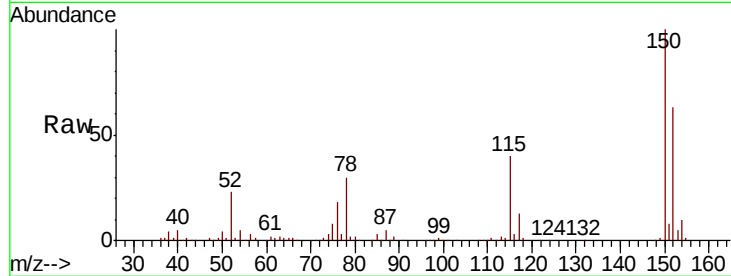
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.5 | 127.4 | 191.0 |
| 115     | 63.8  | 51.8  | 77.8  |

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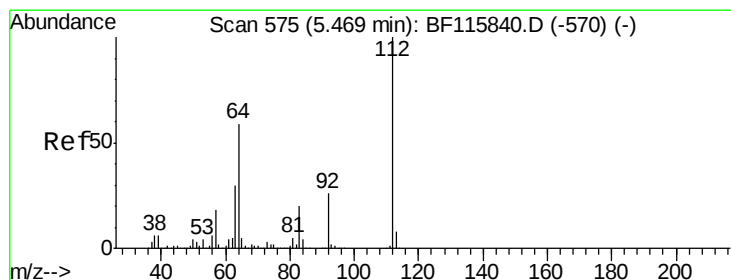
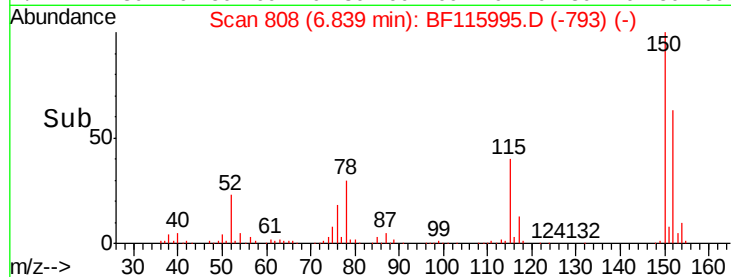
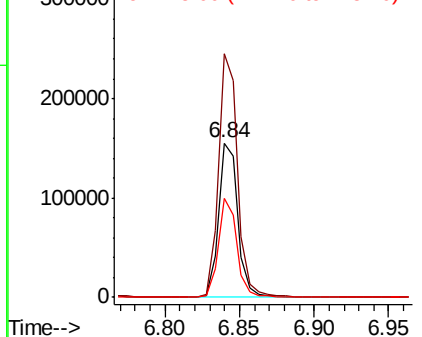


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

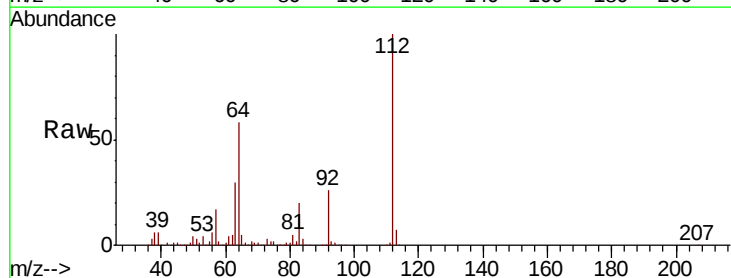
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 101.765 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.00 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.9  | 46.8  | 70.2  |
| 63      | 30.0  | 24.2  | 36.2  |

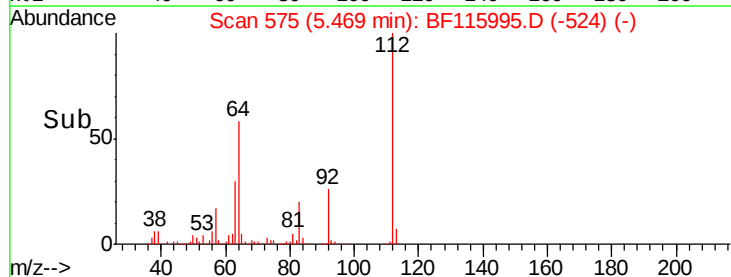
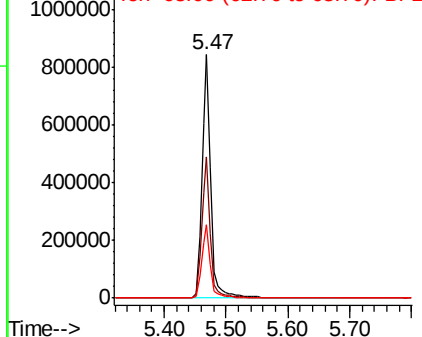


Abundance

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: 104.972 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

Instrument :

BNA\_F

ClientSampleId :

SU-02-080219-A

Tot Ion: 99 Resp: 1118095

Ion Ratio Lower Upper

99 100

42 16.2 13.8 20.6

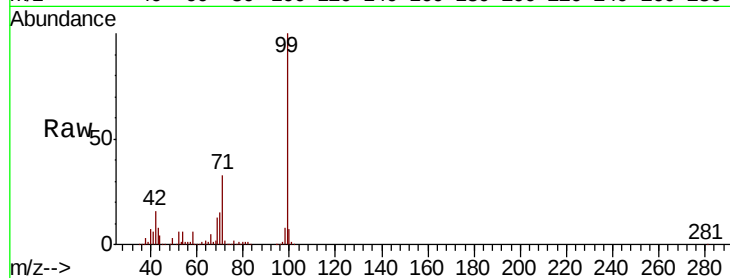
71 33.3 27.1 40.7

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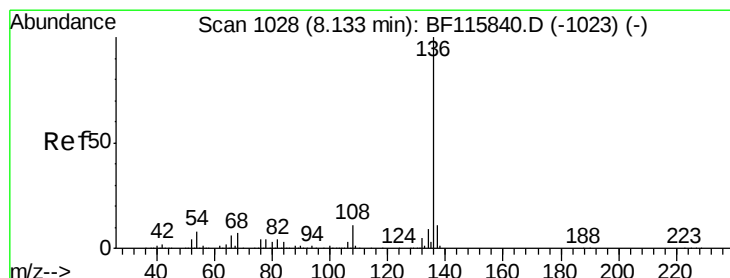
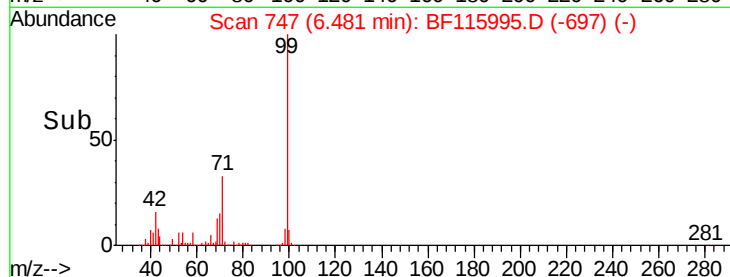
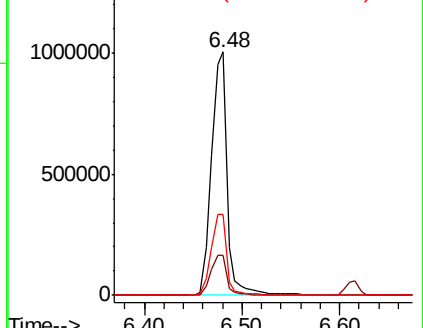
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

Tgt Ion: 136 Resp: 546710

Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 7.4 6.1 9.1

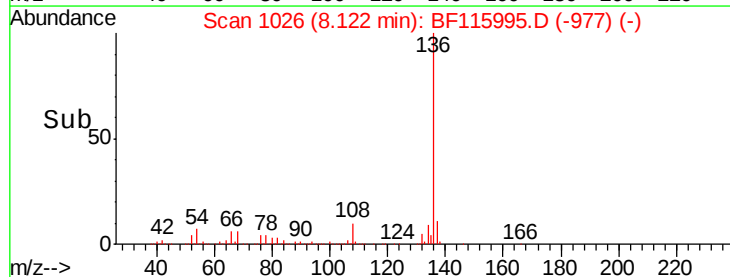
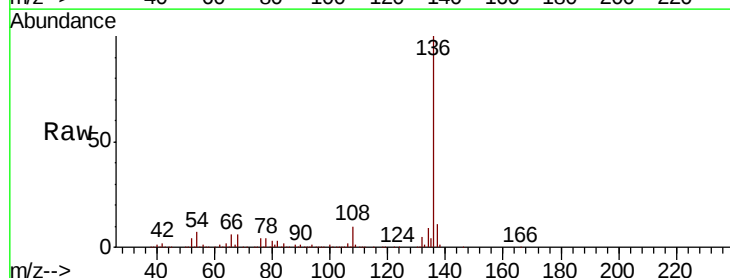
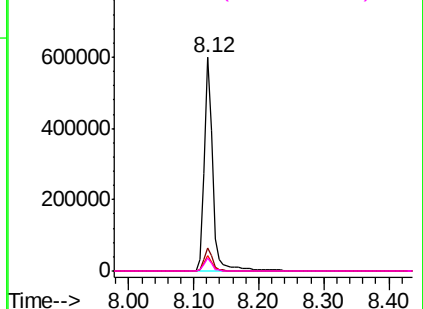
68 6.2 5.4 8.2

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: 75.982 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

Instrument :

BNA\_F

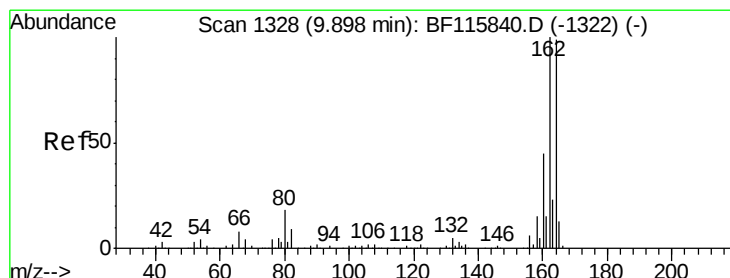
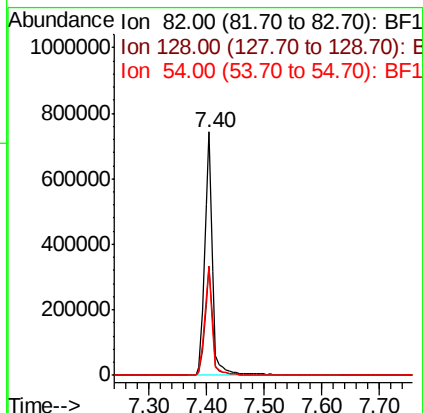
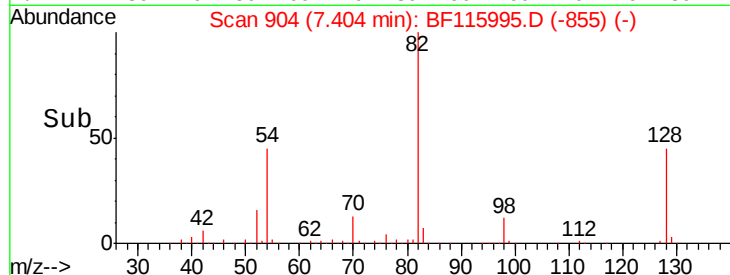
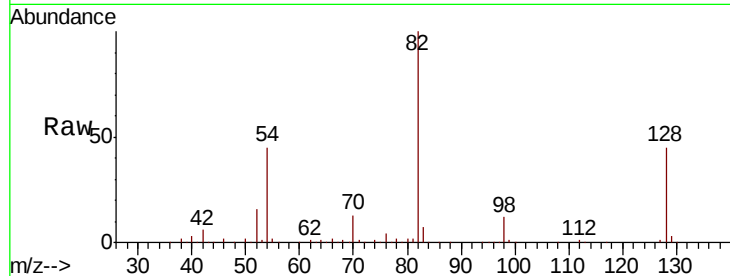
ClientSampleId :

SU-02-080219-A

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 719640 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.1  | 36.6  | 55.0   |
| 54        | 45.1  | 36.6  | 55.0   |

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#39

Acenaphthene-d10

Concen: 20.000 ng

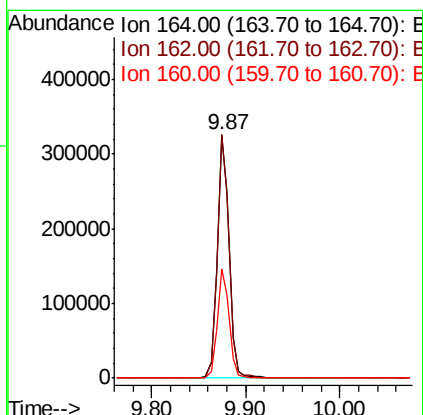
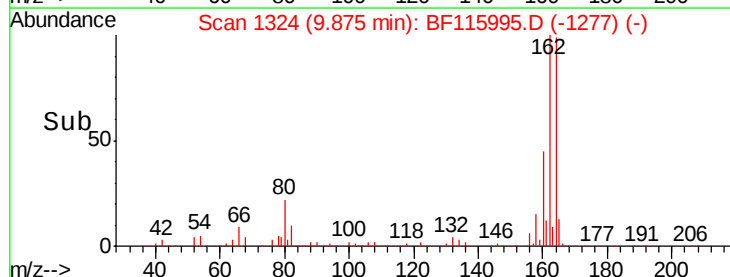
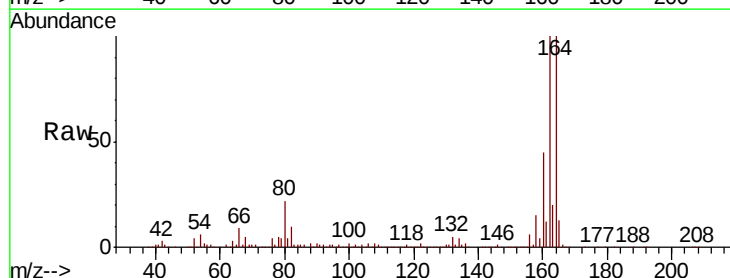
RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 288976 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.5 | 80.8  | 121.2  |
| 160       | 45.2  | 36.2  | 54.4   |





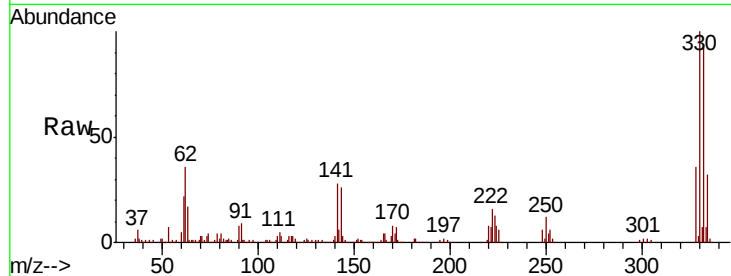
#42  
 2,4,6-Tribromophenol  
 Concen: 99.962 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-080219-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 280065 |       |       |
| 332     | 94.8  |        | 77.7  | 116.5 |
| 141     | 34.1  |        | 28.1  | 42.1  |

Manual Integrations  
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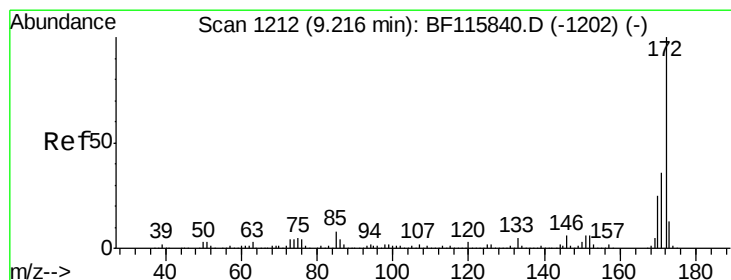
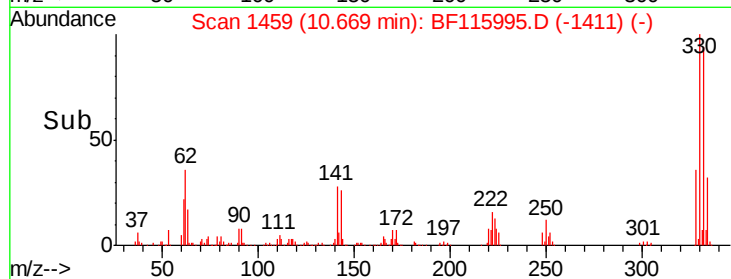
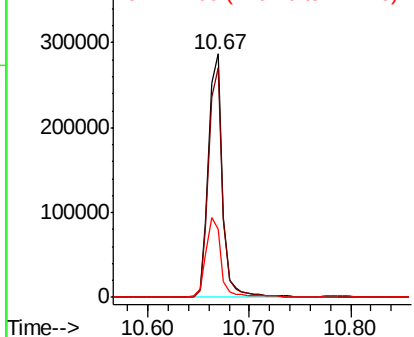


Abundance

Ion 329.80 (329.50 to 330.50): E

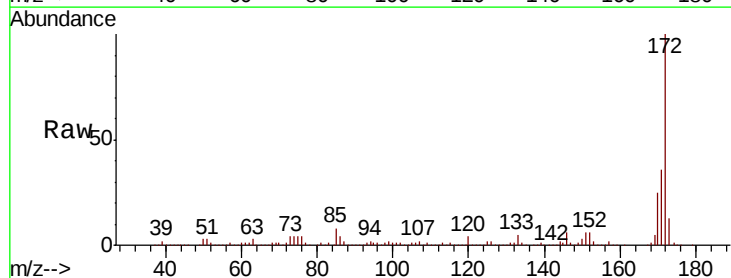
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 77.394 ng  
 RT: 9.20 min Scan# 1209  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1194030 |       |       |
| 171     | 36.4  |         | 29.1  | 43.7  |
| 170     | 25.0  |         | 20.1  | 30.1  |

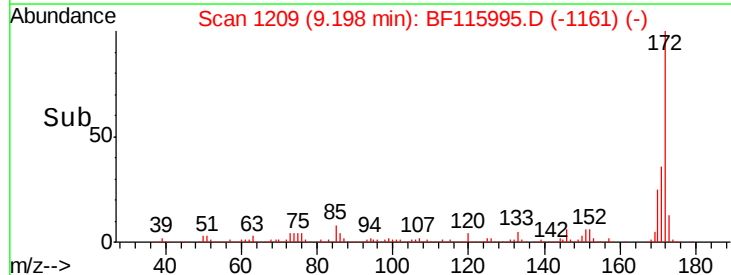
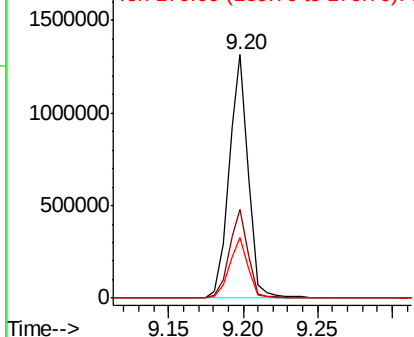


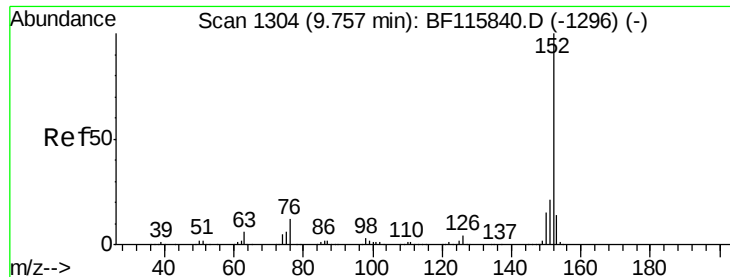
Abundance

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





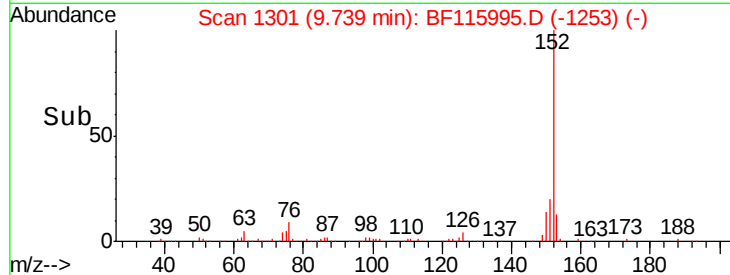
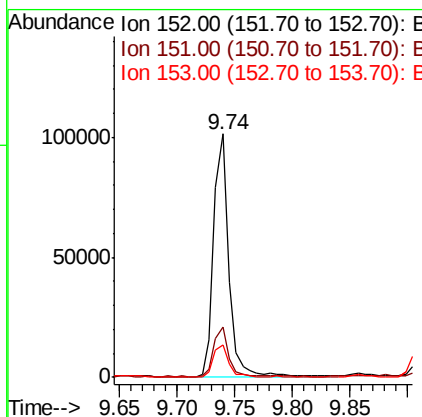
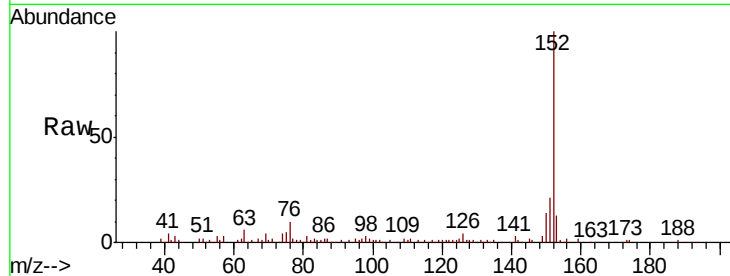
#49  
Acenaphthylene  
Concen: 3.806 ng  
RT: 9.74 min Scan# 1301  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.7  | 16.8  | 25.2  |
| 153     | 13.4  | 11.6  | 17.4  |

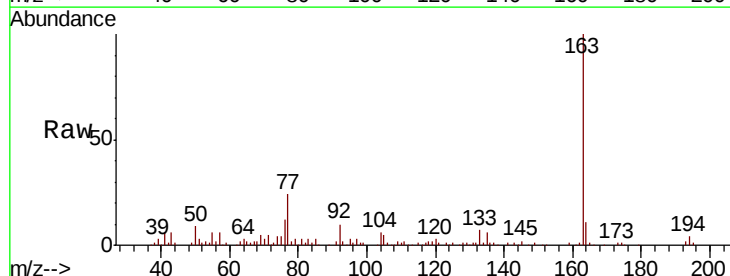
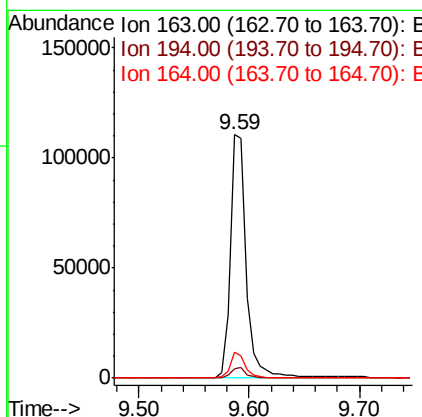
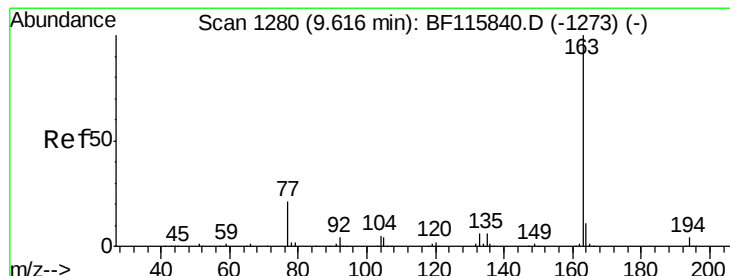
Manual Integrations  
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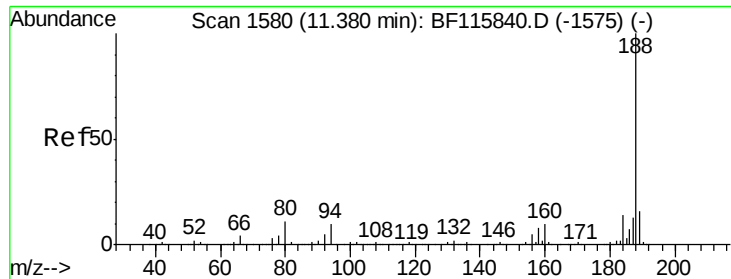
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#50  
Dimethylphthalate  
Concen: 5.737 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.03 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.0   | 4.6   |
| 164     | 10.6  | 8.4   | 12.6  |





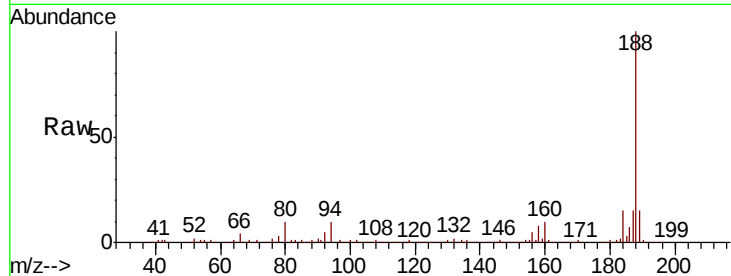
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-080219-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 489642 |       |       |
| 94      | 9.6   |        | 8.0   | 12.0  |
| 80      | 10.5  |        | 8.6   | 12.8  |

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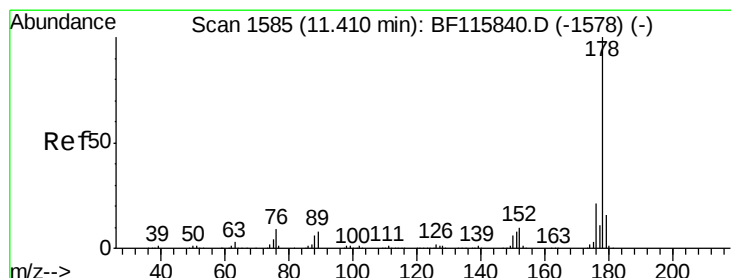
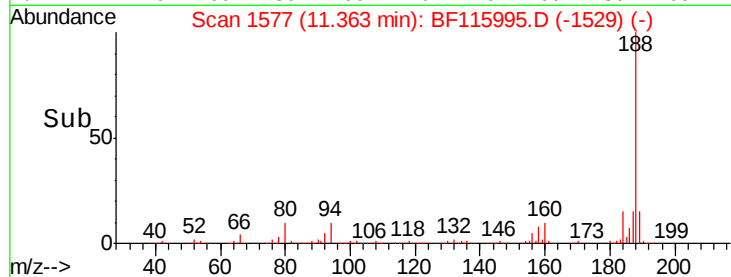
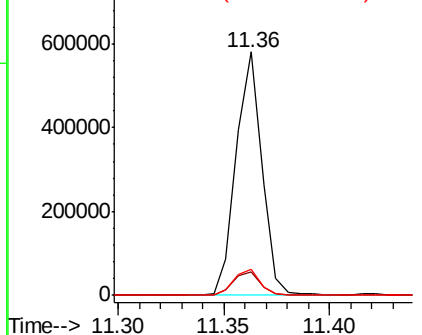


Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71  
 Phenanthrene  
 Concen: 8.804 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

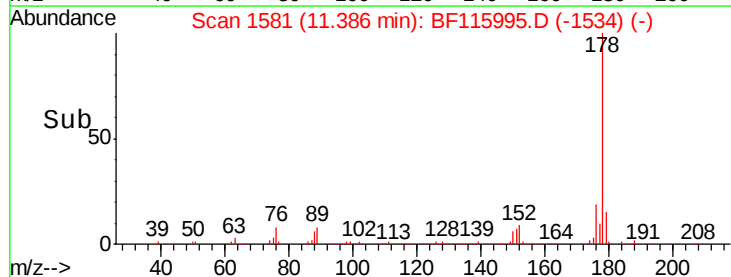
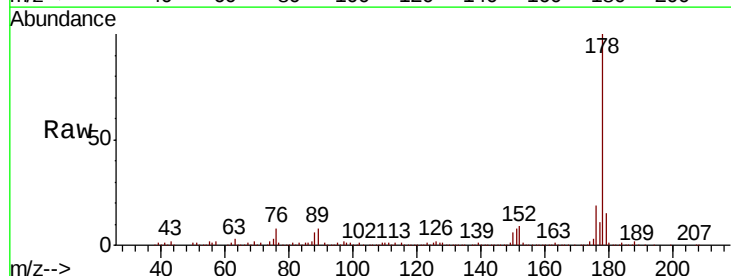
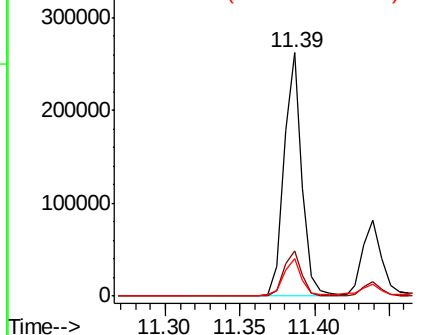
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 220379 |       |       |
| 176     | 18.8  |        | 16.5  | 24.7  |
| 179     | 15.4  |        | 12.6  | 18.8  |

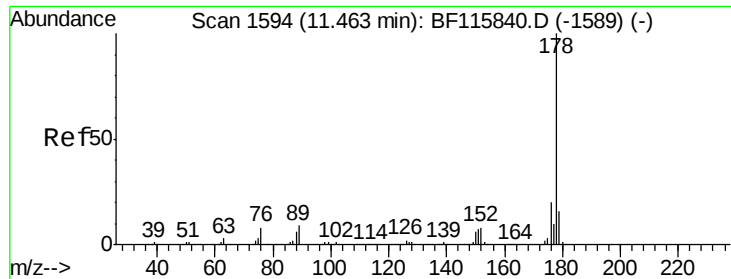
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





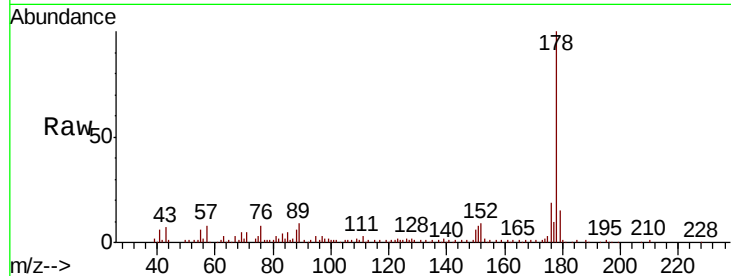
#72  
 Anthracene  
 Concen: 2.714 ng  
 RT: 11.44 min Scan# 1590  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-080219-A

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 176     | 18.6 | 15.7  | 23.5  |       |
| 179     | 15.3 | 12.4  | 18.6  |       |

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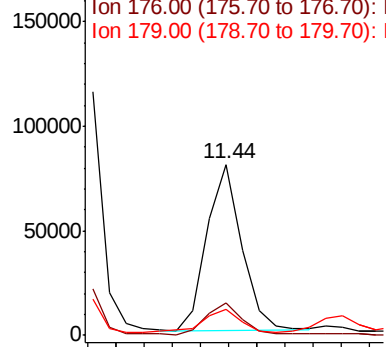


Abundance

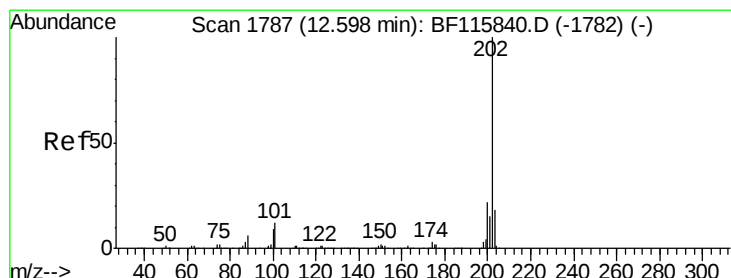
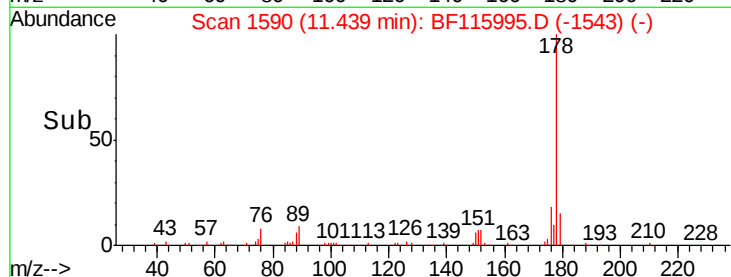
Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75  
 Fluoranthene  
 Concen: 24.361 ng  
 RT: 12.57 min Scan# 1783  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

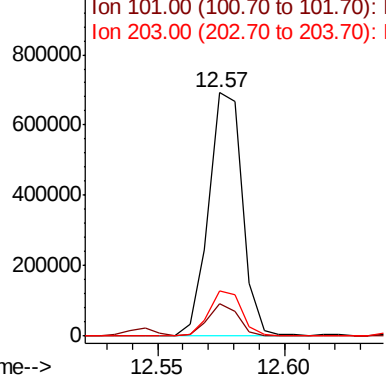
| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 202     | 100  |       |       |       |
| 101     | 13.5 | 0.0   | 31.5  |       |
| 203     | 18.4 | 0.0   | 37.9  |       |

Abundance

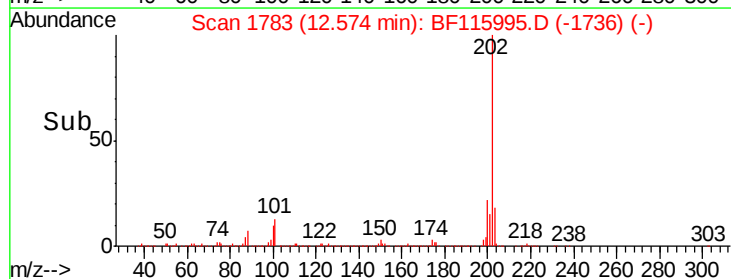
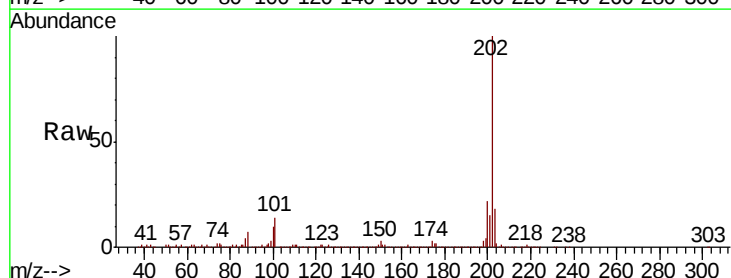
Ion 202.00 (201.70 to 202.70): E

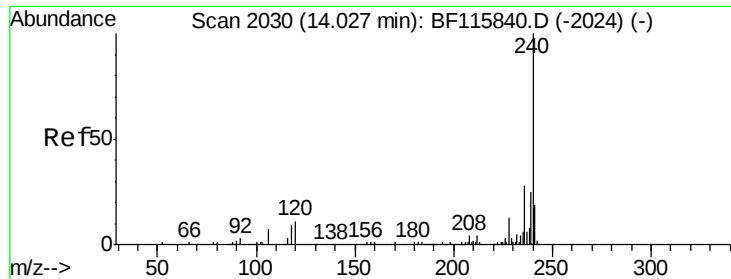
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





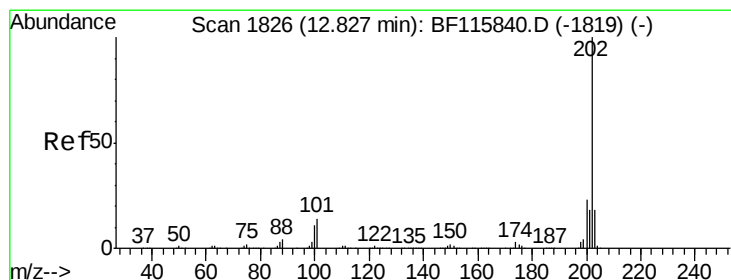
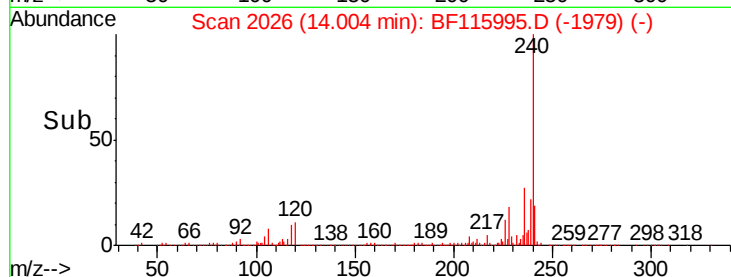
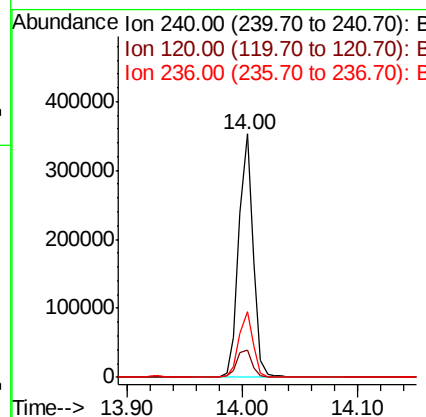
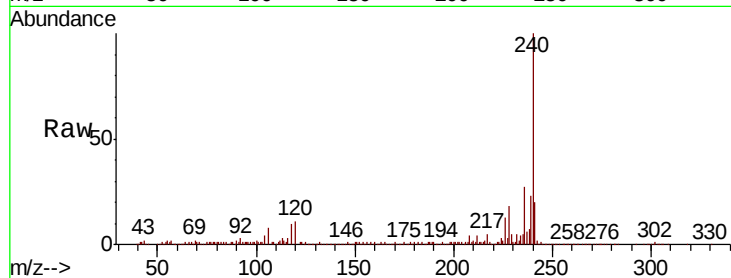
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 300810 |       |       |
| 120     | 11.1  | 8.5    | 12.7  |       |
| 236     | 27.0  | 22.2   | 33.2  |       |

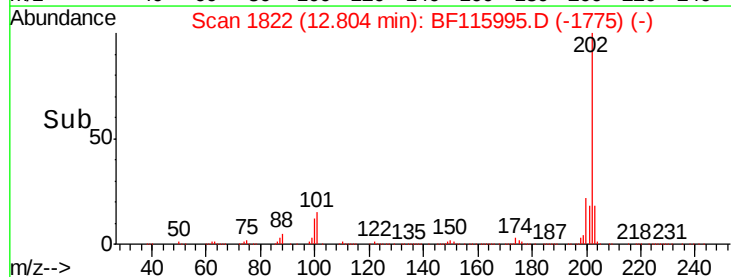
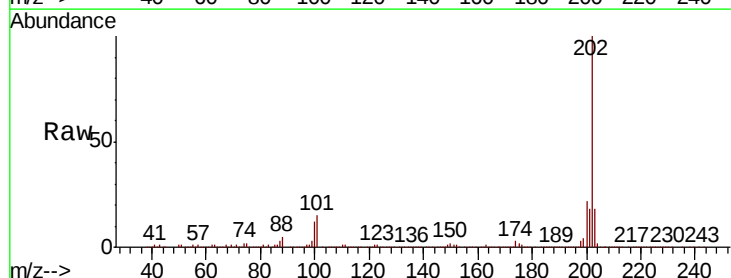
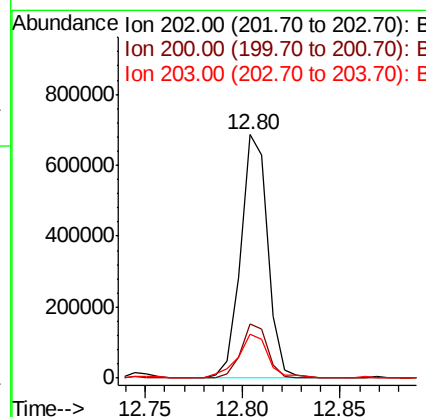
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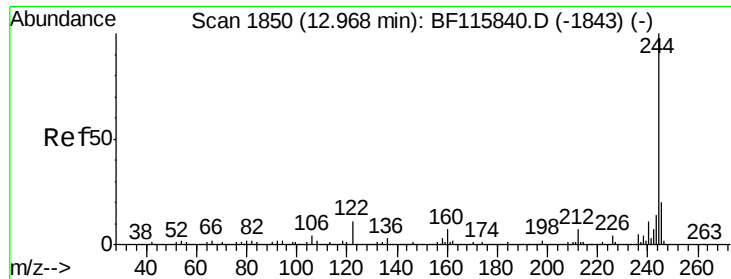
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#78  
Pyrene  
Concen: 28.984 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 657219 |       |       |
| 200     | 22.0  | 18.2   | 27.2  |       |
| 203     | 18.2  | 14.3   | 21.5  |       |





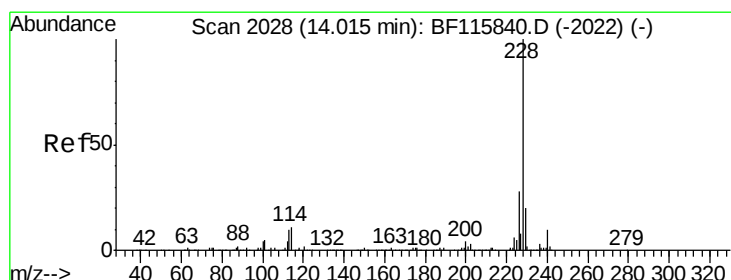
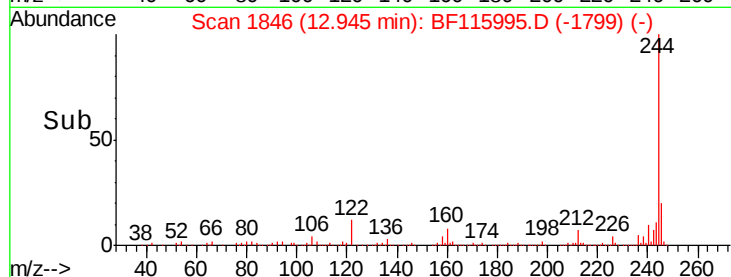
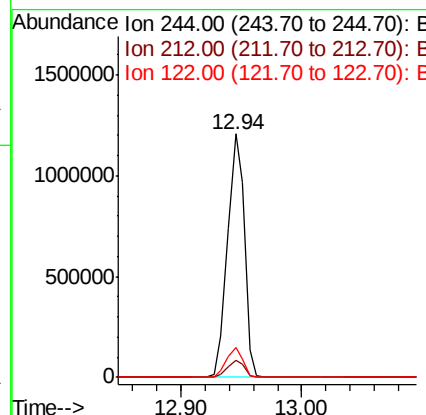
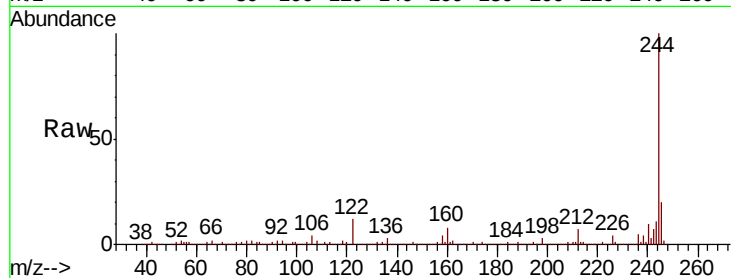
#79  
 Terphenyl-d14  
 Concen: 81.533 ng  
 RT: 12.94 min Scan# 1846  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-02-080219-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.6   | 8.4   |
| 122     | 12.4  | 8.6   | 13.0  |

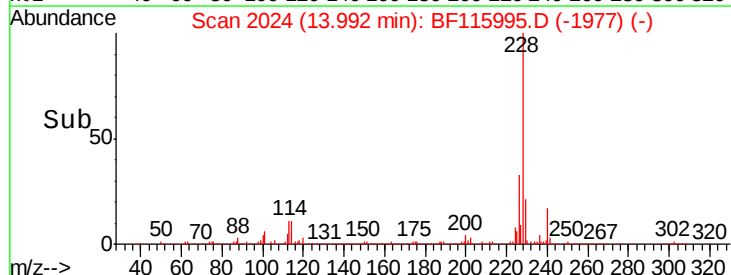
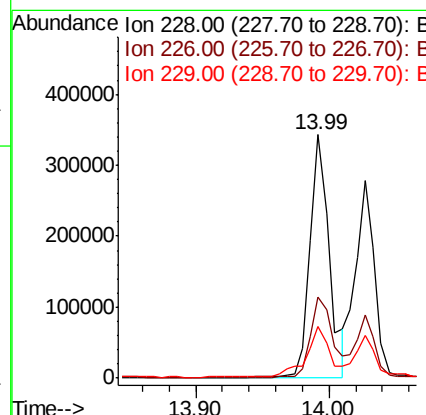
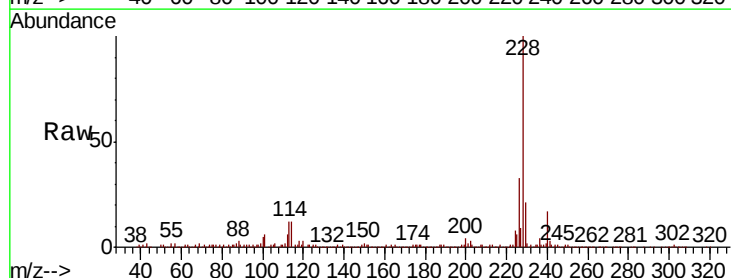
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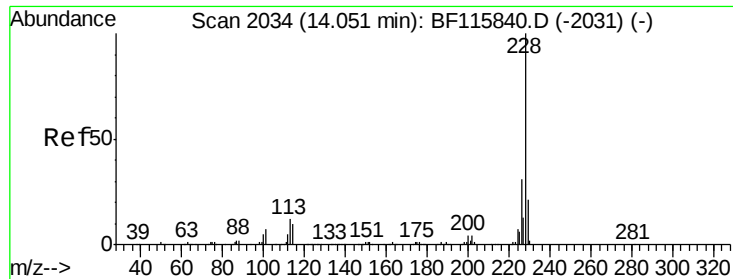
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#81  
 Benzo(a)anthracene  
 Concen: 17.553 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.02 min  
 Lab File: BF115995.D  
 Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.2  | 22.5  | 33.7  |
| 229     | 21.1  | 16.1  | 24.1  |





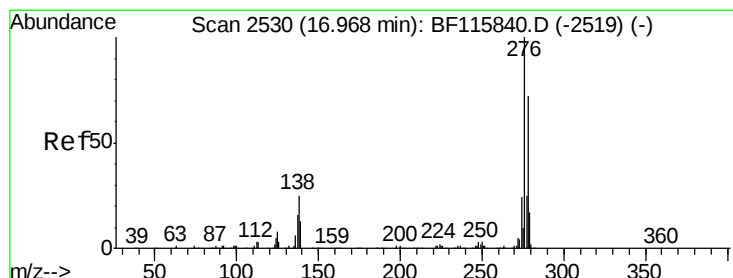
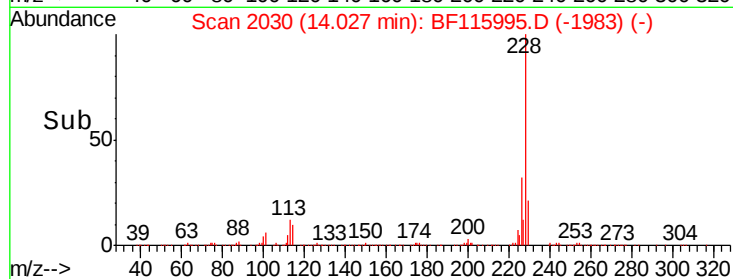
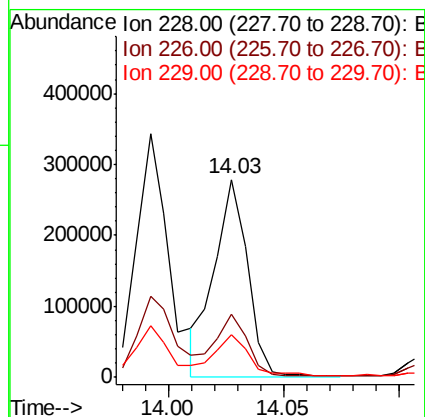
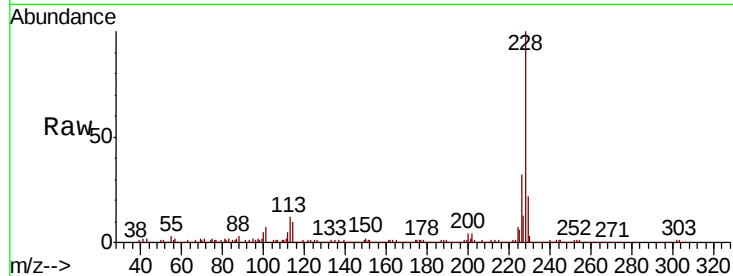
#83  
Chrysene  
Concen: 14.864 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 24.8  | 37.2  |
| 229     | 21.8  | 16.4  | 24.6  |

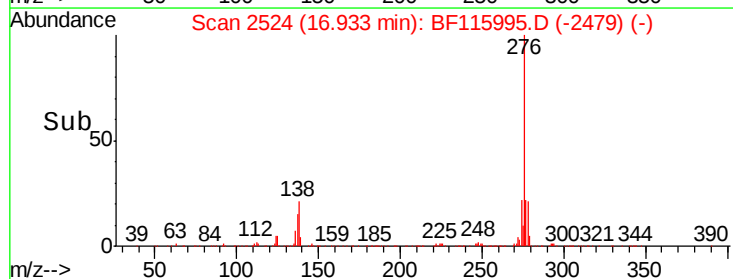
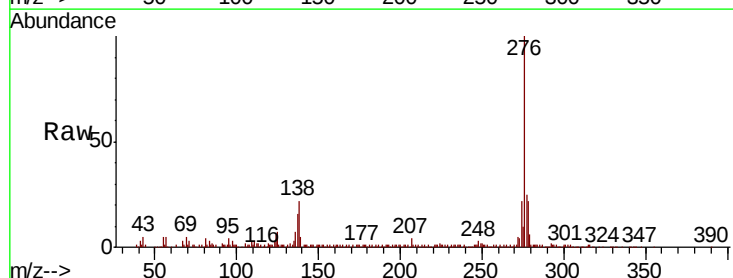
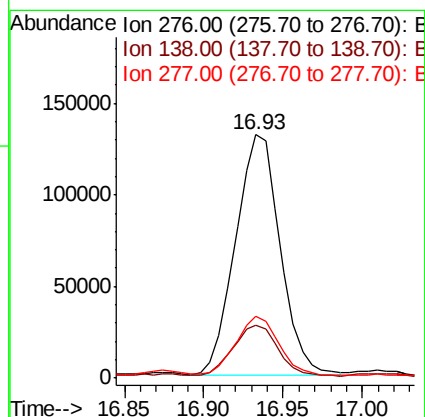
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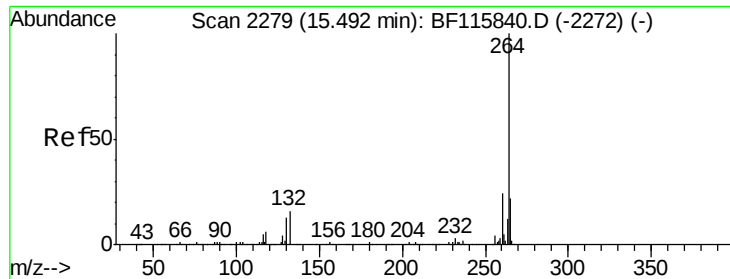
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#86  
Indeno(1,2,3-cd)pyrene  
Concen: 16.339 ng  
RT: 16.93 min Scan# 2524  
Delta R.T. -0.04 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.2  | 19.6  | 29.4  |
| 277     | 23.7  | 20.1  | 30.1  |





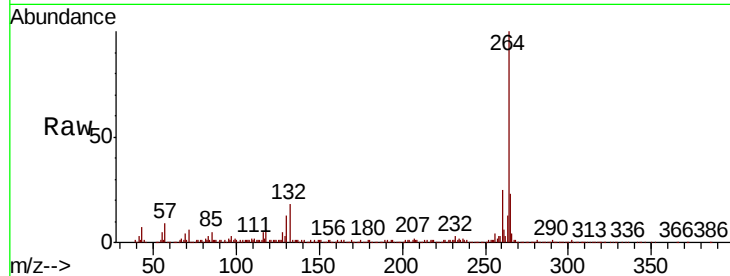
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

Instrument :  
BNA\_F  
ClientSampleId :  
SU-02-080219-A

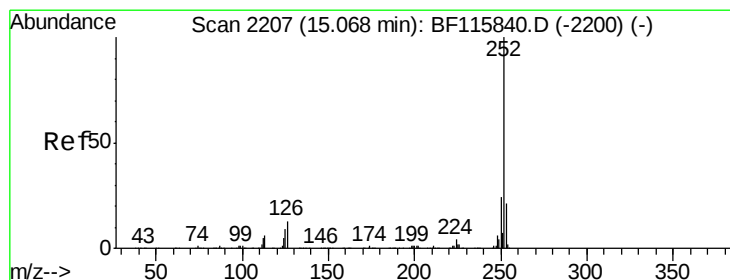
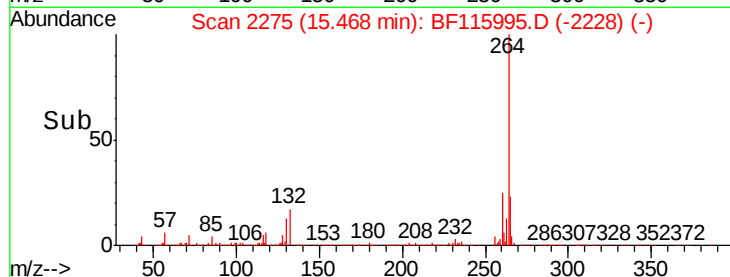
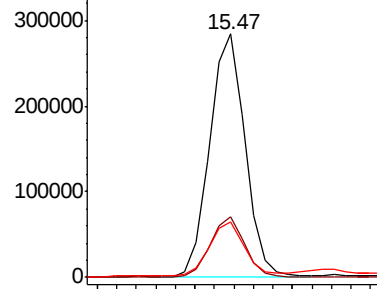
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.4  | 29.2  |
| 265     | 23.0  | 17.5  | 26.3  |

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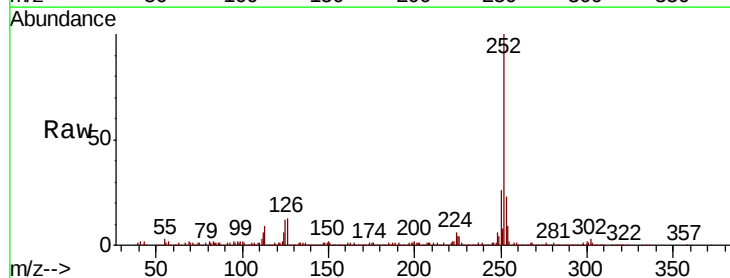


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

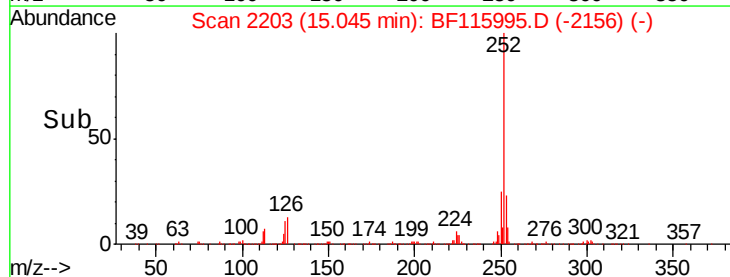
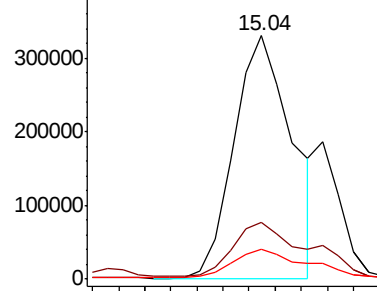


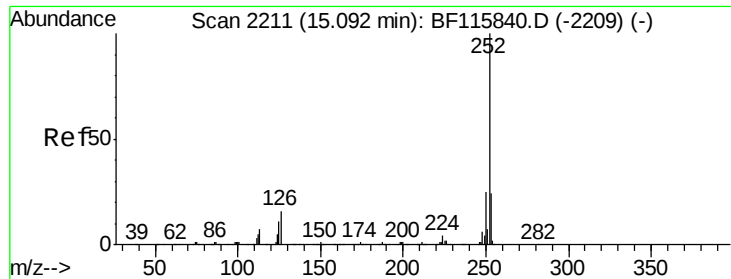
#88  
Benzo(b)fluoranthene  
Concen: 24.917 ng m  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.02 min  
Lab File: BF115995.D  
Acq: 5 Aug 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.2  | 25.8  |
| 125     | 12.3  | 7.4   | 11.0# |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 6.170 ng/mL

RT: 15.07 min Scan# 2207

Delta R.T. -0.02 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

Instrument :

BNA\_F

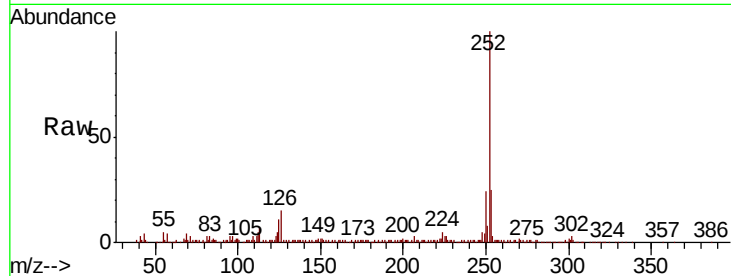
ClientSampleId :

SU-02-080219-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 18.2  | 27.4  |
| 125     | 11.3  | 8.9   | 13.3  |

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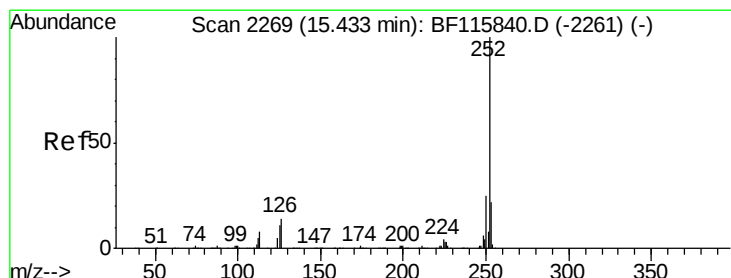
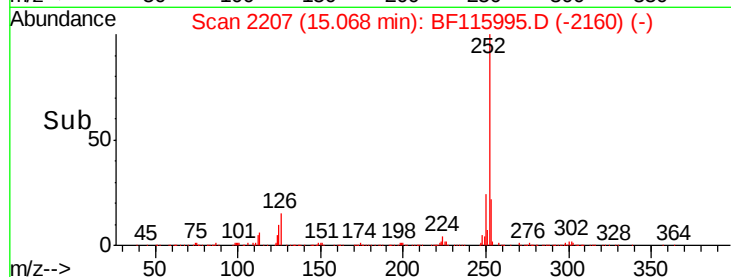
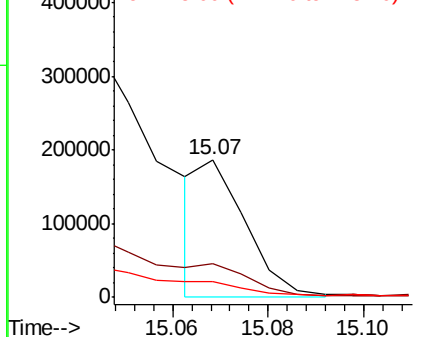


Abundance

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: 19.464 ng/mL

RT: 15.40 min Scan# 2264

Delta R.T. -0.03 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

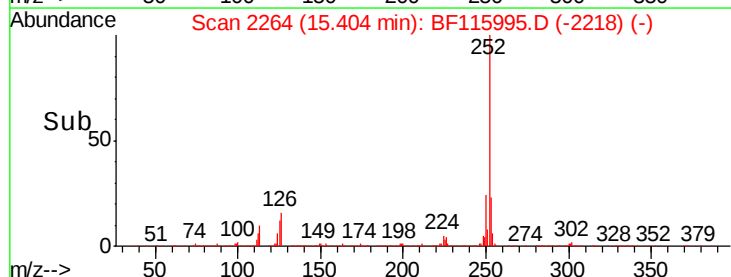
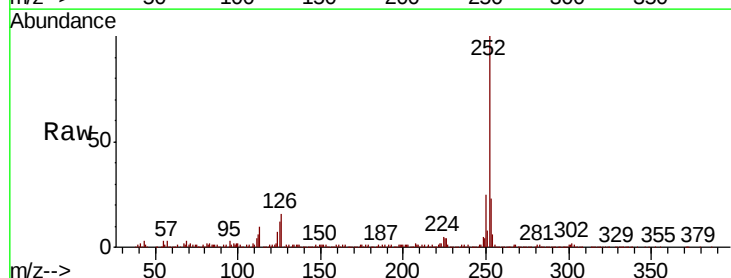
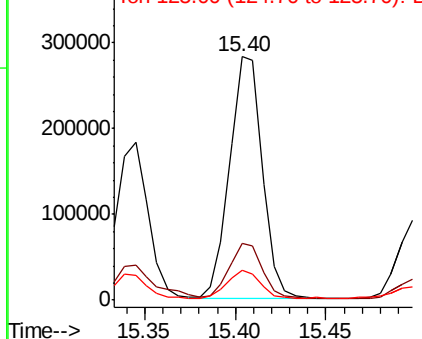
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.8  | 26.6  |
| 125     | 12.5  | 8.8   | 13.2  |

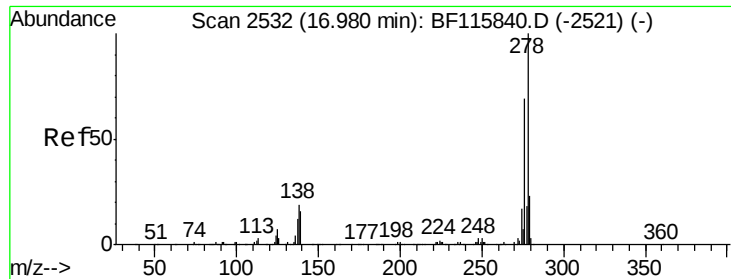
Abundance

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





#91

Dibenzo(a,h)anthracene

Concen: 4.013 ng

RT: 16.94 min Scan# 2525

Delta R.T. -0.04 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

Instrument :

BNA\_F

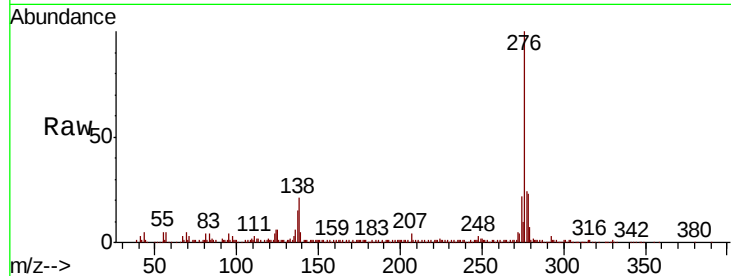
ClientSampleId :

SU-02-080219-A

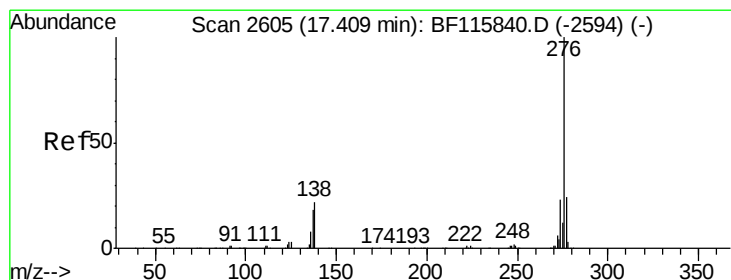
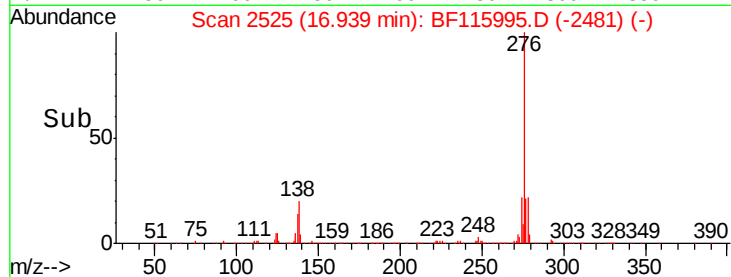
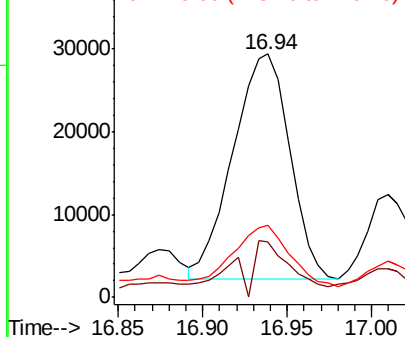
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 63837 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 22.6  | 12.6  | 19.0# |
| 279       | 29.4  | 18.8  | 28.2# |

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Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 14.856 ng

RT: 17.37 min Scan# 2599

Delta R.T. -0.04 min

Lab File: BF115995.D

Acq: 5 Aug 2019 22:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 232062 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.9  | 19.5  | 29.3   |
| 138       | 22.2  | 17.8  | 26.8   |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

