

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101719\  
 Data File : BN008235.D  
 Acq On : 17 Oct 2019 23:34  
 Operator : JU  
 Sample : K5177-08  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP97

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Quant Time: Oct 18 03:57:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 17 01:48:53 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.60  | 152  | 2895     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.37 | 136  | 13911    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.24 | 164  | 8547     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.99 | 188  | 18267m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.19 | 240  | 13788    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.37 | 264  | 11375    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.97 | 152  | 3680     | 0.16   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.02 | 212  | 10046    | 0.16   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.42 | 128  | 3693     | 0.093  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.04 | 142  | 2001     | 0.074  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.95 | 152  | 7957     | 0.195  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.30 | 153  | 1747     | 0.055  | ng/ul  | 97       |
| 9) Fluorene                 | 15.29 | 166  | 2773     | 0.077  | ng/ul# | 95       |
| 12) Phenanthrene            | 17.03 | 178  | 61735    | 1.154  | ng/ul  | 99       |
| 13) Anthracene              | 17.12 | 178  | 12170    | 0.259  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.05 | 202  | 143370   | 2.030  | ng/ul  | 98       |
| 17) Pyrene                  | 19.41 | 202  | 134511   | 2.450  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.17 | 228  | 67463    | 1.346  | ng/ul  | 95       |
| 19) Chrysene                | 21.22 | 228  | 73169    | 1.189  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.72 | 252  | 73026m   | 1.972  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.76 | 252  | 25790m   | 0.615  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.27 | 252  | 52145    | 1.338  | ng/ul# | 90       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.53 | 276  | 33942    | 0.740  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.54 | 278  | 8630     | 0.238  | ng/ul# | 79       |
| 26) Benzo(a,h,i)perylene    | 26.19 | 276  | 34216    | 0.813  | ng/ul  | 98       |

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

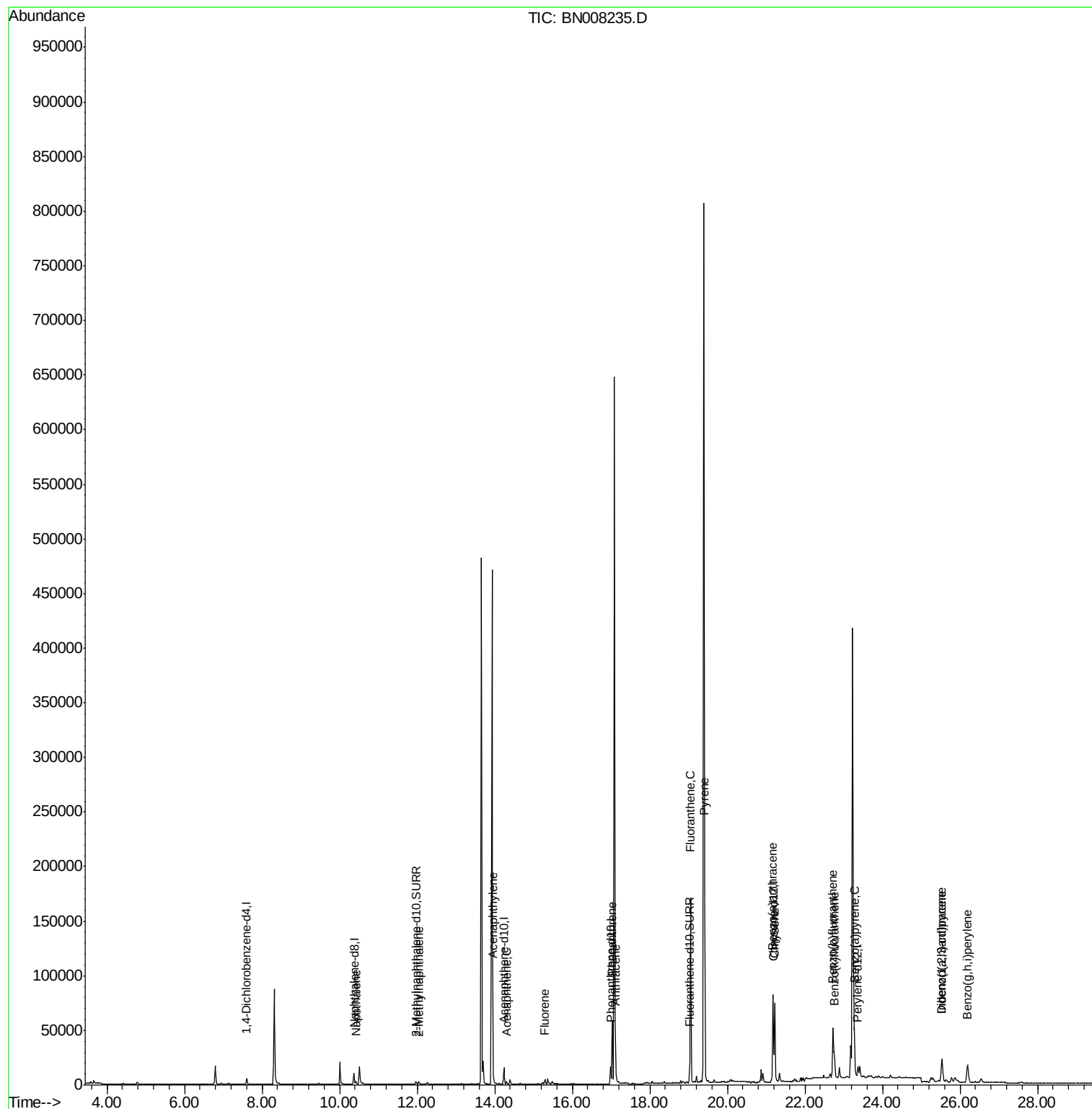
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101719\  
Data File : BN008235.D  
Acq On : 17 Oct 2019 23:34  
Operator : JU  
Sample : K5177-08  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

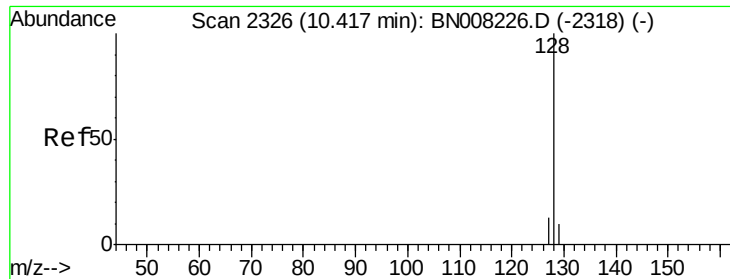
Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Time: Oct 18 03:57:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 17 01:48:53 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.093 ng/ul

RT: 10.42 min Scan# 2326

Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

Instrument :

BNA\_N

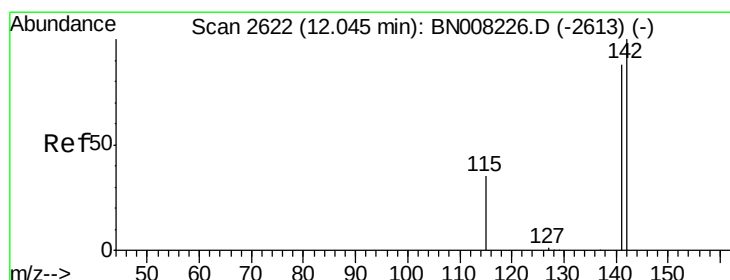
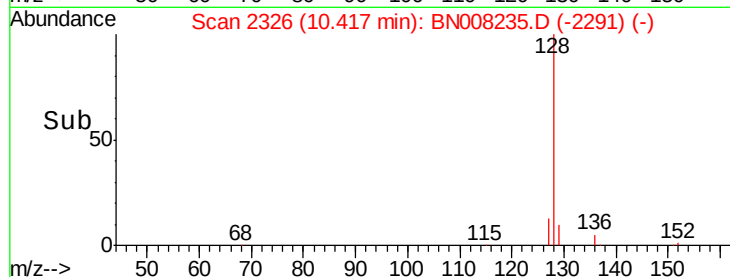
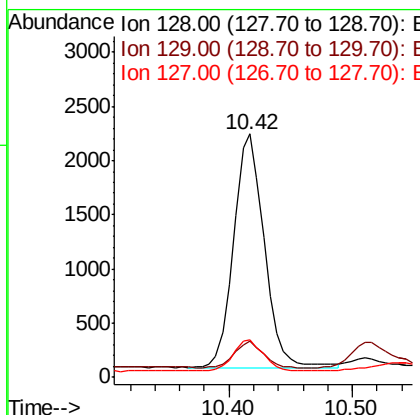
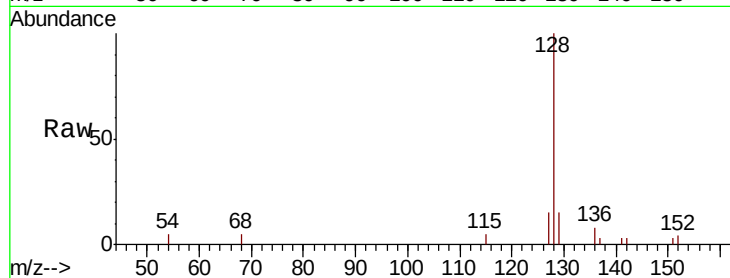
ClientSampleId :

BEP97

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 15.0  | 9.8   | 14.8# |
| 127     | 15.2  | 11.1  | 16.7  |

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#5

2-Methylnaphthalene

Concen: 0.074 ng/ul

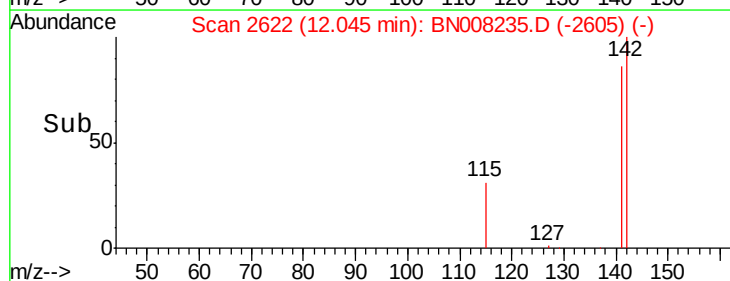
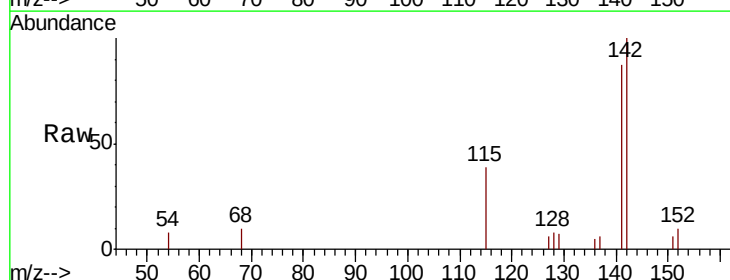
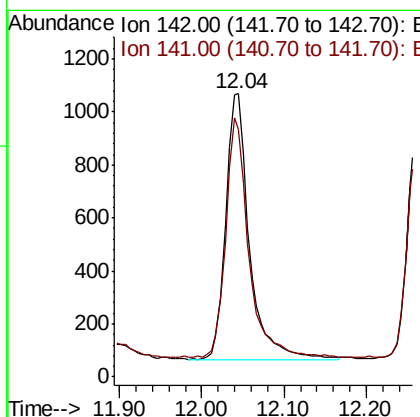
RT: 12.04 min Scan# 2622

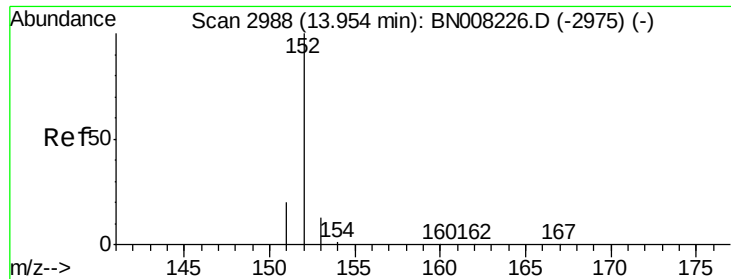
Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.9  | 71.4  | 107.2 |





#7

Acenaphthylene

Concen: 0.195 ng/ul

RT: 13.95 min Scan# 2988

Delta R.T. -0.00 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

Instrument :

BNA\_N

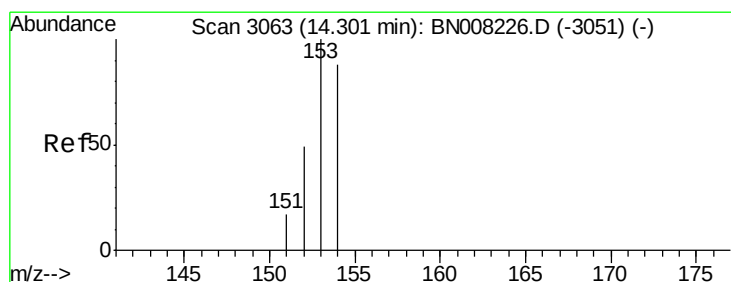
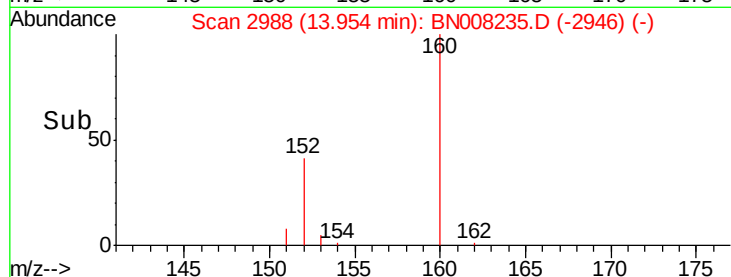
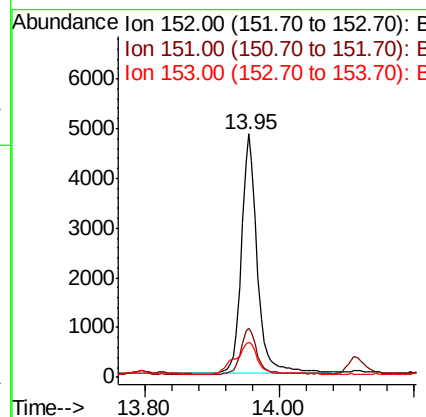
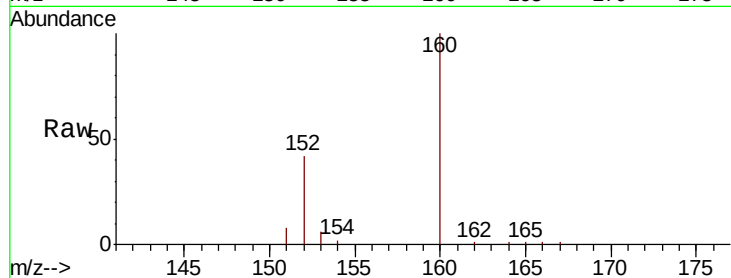
ClientSampled :

BEP97

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 7957 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.3  | 16.2  | 24.4 |
| 153       | 14.5  | 11.0  | 16.4 |

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#8

Acenaphthene

Concen: 0.055 ng/ul

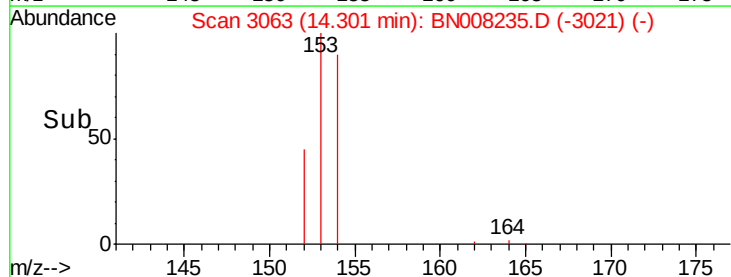
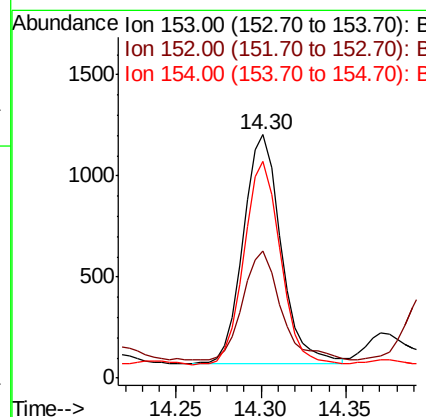
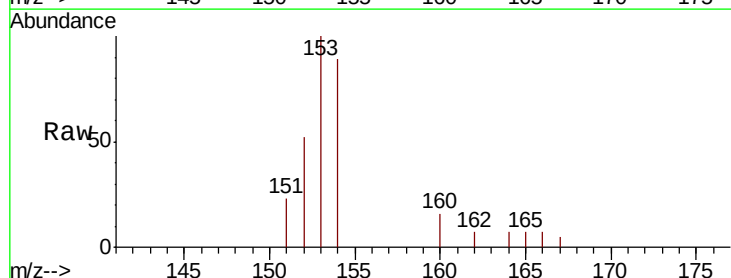
RT: 14.30 min Scan# 3063

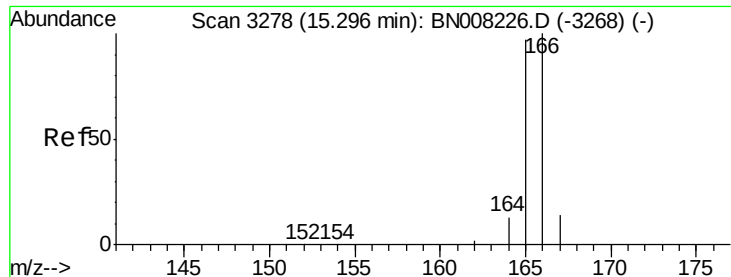
Delta R.T. -0.00 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1747  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.2  | 38.2  | 57.2  |
| 154       | 89.2  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.077 ng/ul

RT: 15.29 min Scan# 3277

Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

Instrument :

BNA\_N

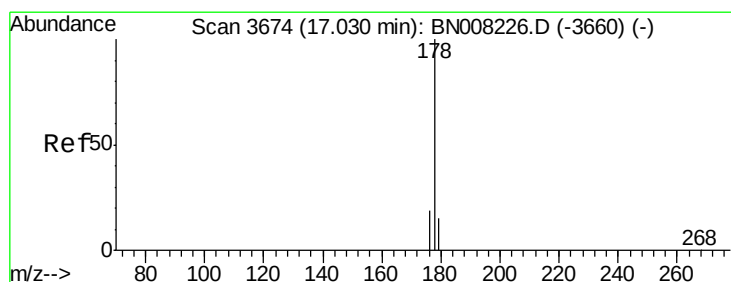
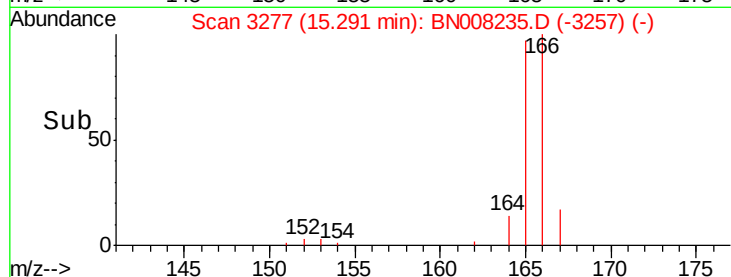
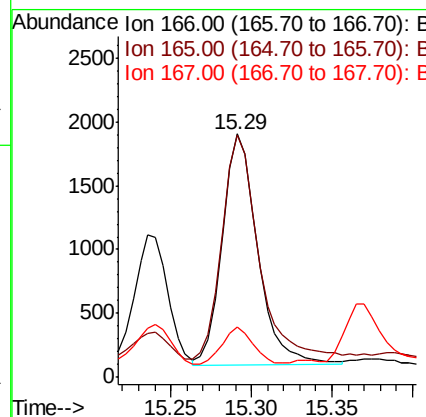
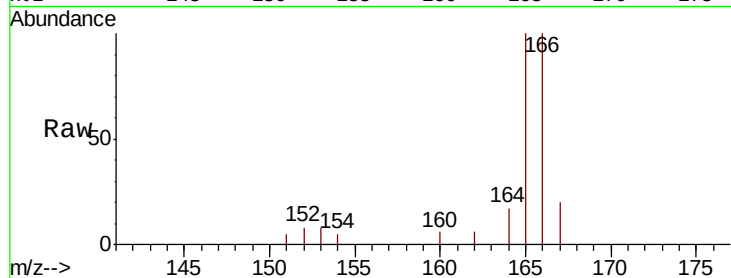
ClientSampleId :

BEP97

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 2773  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.6  | 76.6  | 115.0 |
| 167      | 20.5  | 11.7  | 17.5# |

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#12

Phenanthrene

Concen: 1.154 ng/ul

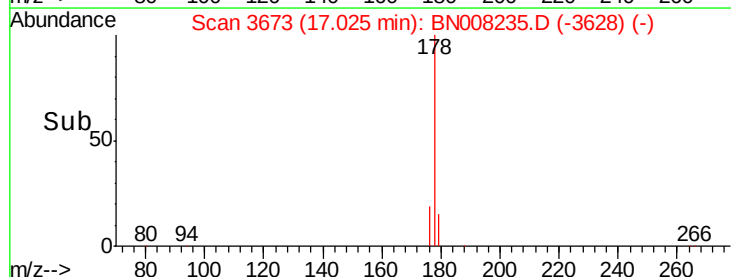
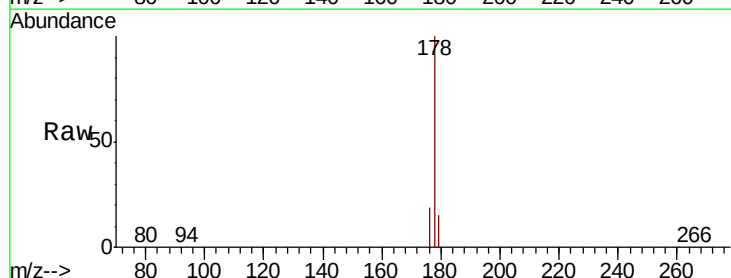
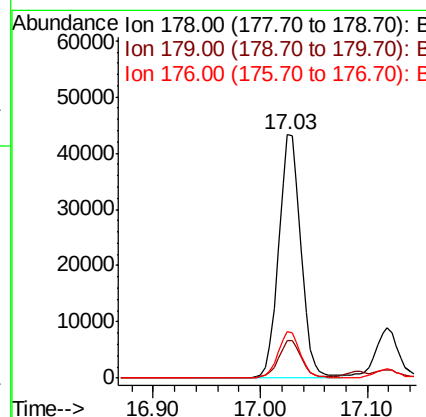
RT: 17.03 min Scan# 3673

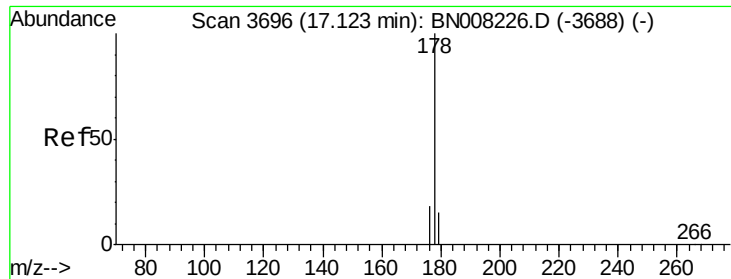
Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 61735 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.5  | 12.8  | 19.2  |
| 176      | 19.0  | 15.4  | 23.2  |





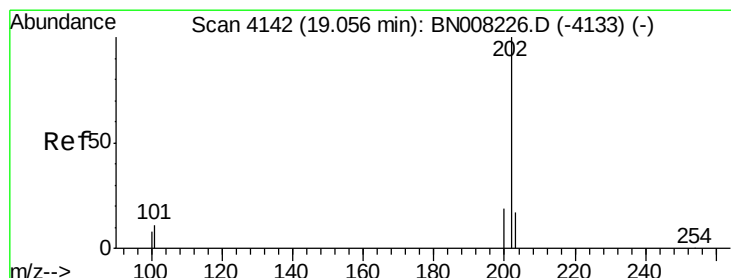
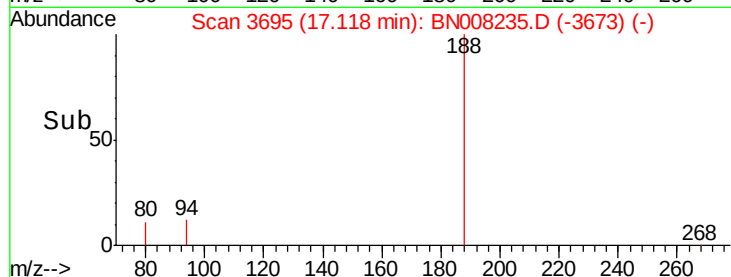
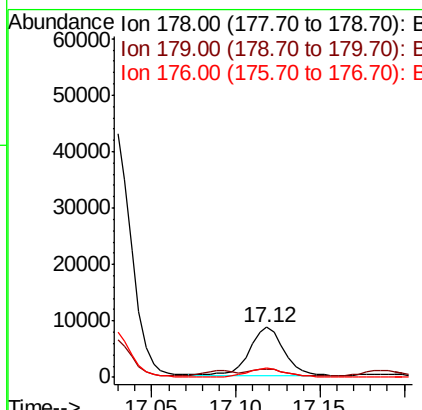
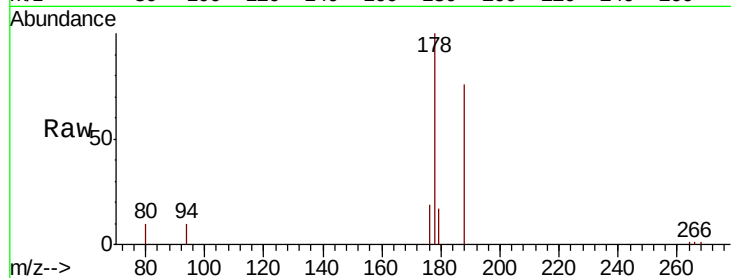
#13  
 Anthracene  
 Concen: 0.259 ng/ul  
 RT: 17.12 min Scan# 3695  
 Delta R.T. -0.01 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

Instrument :  
 BNA\_N  
 ClientSampleID :  
 BEP97

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.9  | 13.0  | 19.6  |
| 176     | 19.1  | 15.0  | 22.6  |

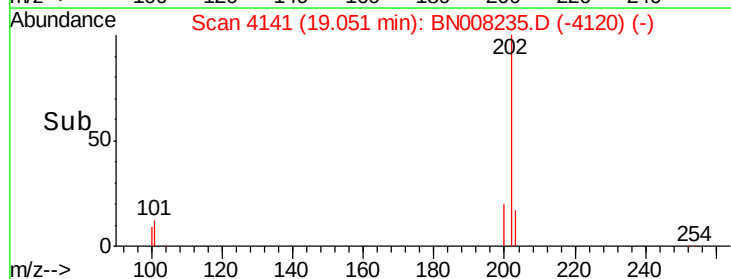
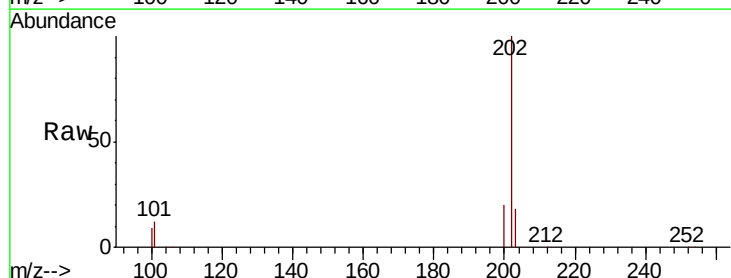
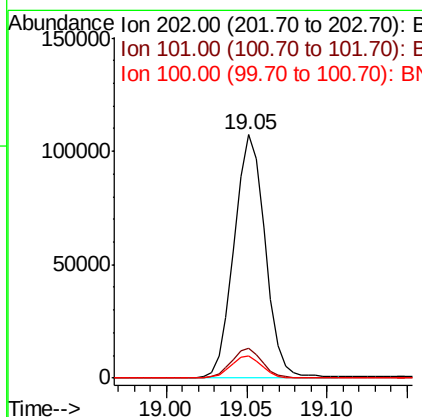
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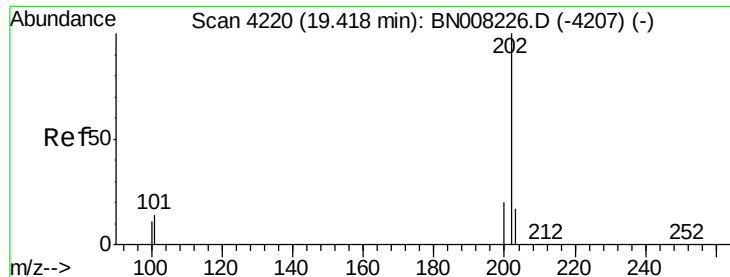
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#15  
 Fluoranthene  
 Concen: 2.030 ng/ul  
 RT: 19.05 min Scan# 4141  
 Delta R.T. -0.00 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.3  | 0.0   | 31.2  |
| 100     | 9.2   | 0.0   | 28.5  |





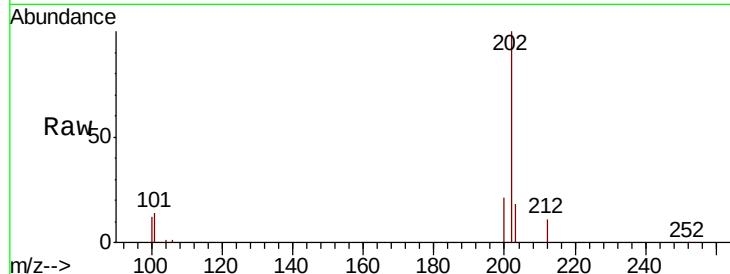
#17  
 Pvrene  
 Concen: 2.450 ng/ul  
 RT: 19.41 min Scan# 4219  
 Delta R.T. -0.00 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

Instrument :  
 BNA\_N  
 ClientSampled :  
 BEP97

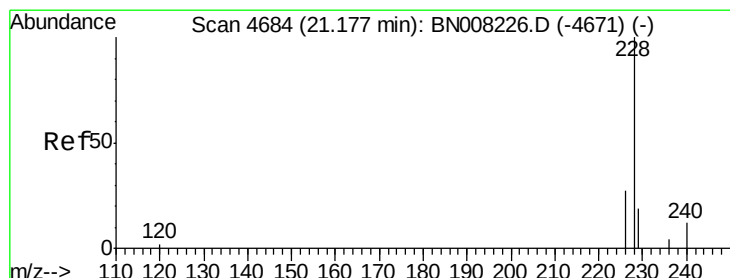
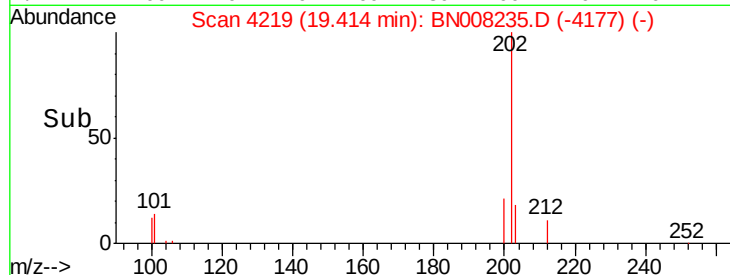
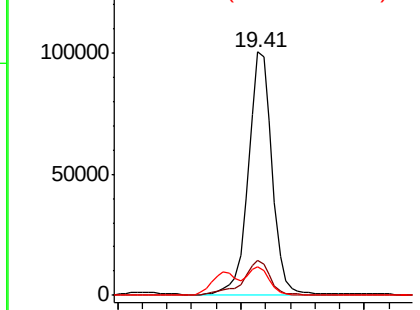
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.3  | 10.9       | 16.3  |
| 100     | 11.8  | 8.7        | 13.1  |

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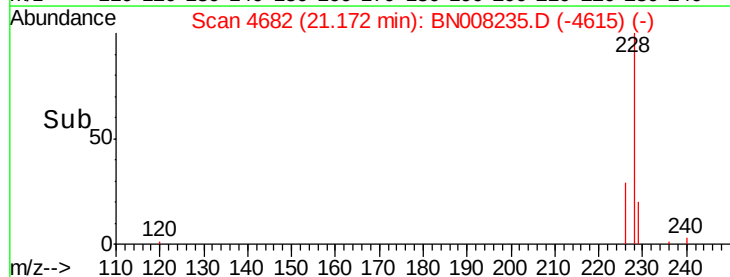
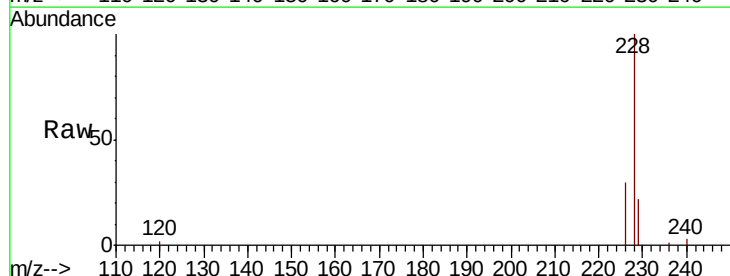
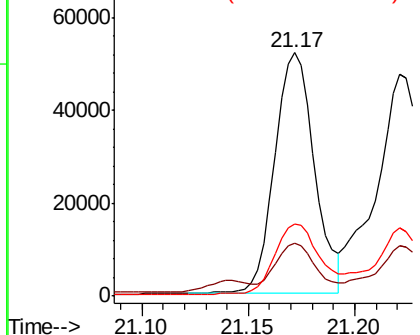
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

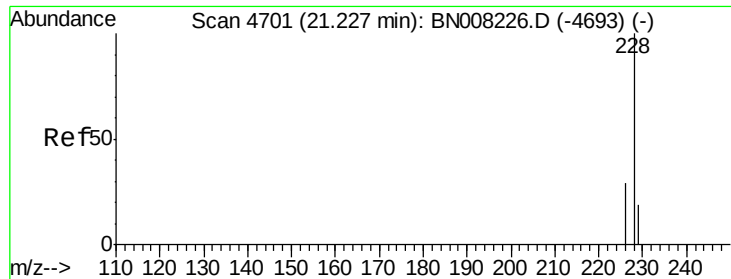


#18  
 Benzo(a)anthracene  
 Concen: 1.346 ng/ul  
 RT: 21.17 min Scan# 4682  
 Delta R.T. -0.01 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 21.7  | 16.2       | 24.2  |
| 226     | 29.5  | 21.4       | 32.0  |

Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 229.00 (228.70 to 229.70): E  
 Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 1.189 ng/ul

RT: 21.22 min Scan# 4699

Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

Instrument :

BNA\_N

ClientSampleId :

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Tot Ion:228 Resp: 73169

Ion Ratio Lower Upper

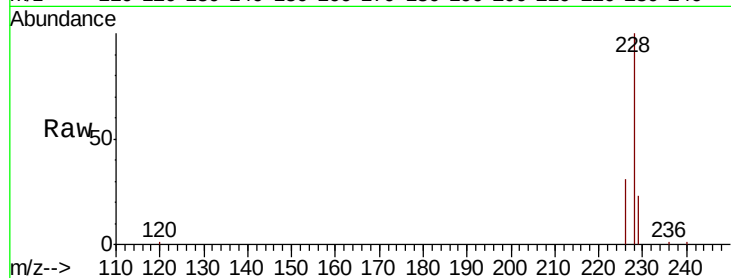
228 100

226 30.8 24.1 36.1

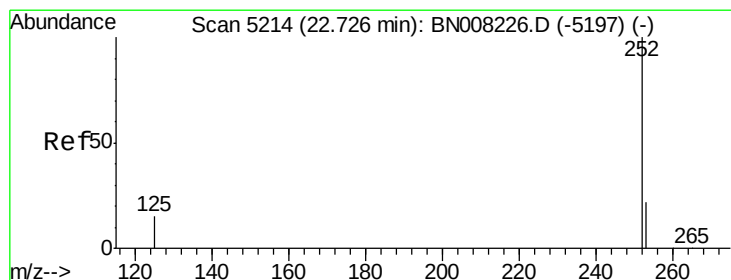
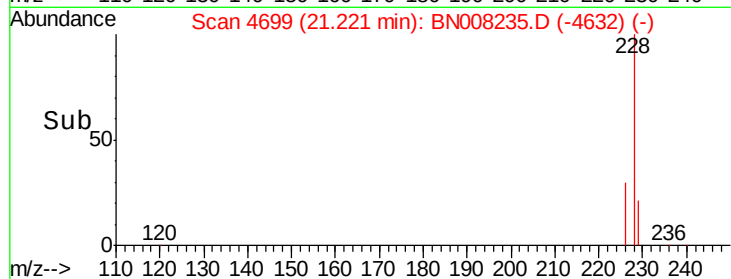
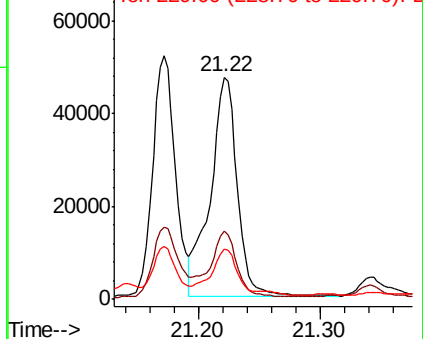
229 22.6 16.2 24.2

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#21

Benzo(b)fluoranthene

Concen: 1.972 ng/ul m

RT: 22.72 min Scan# 5212

Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

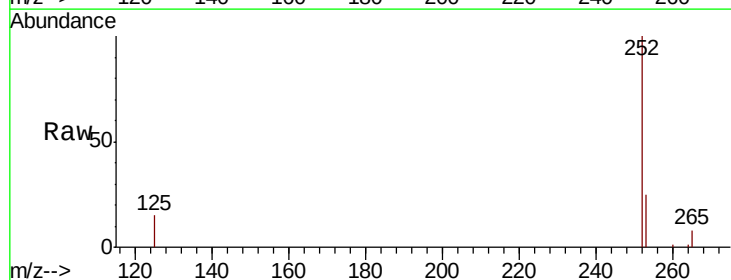
Tgt Ion:252 Resp: 73026

Ion Ratio Lower Upper

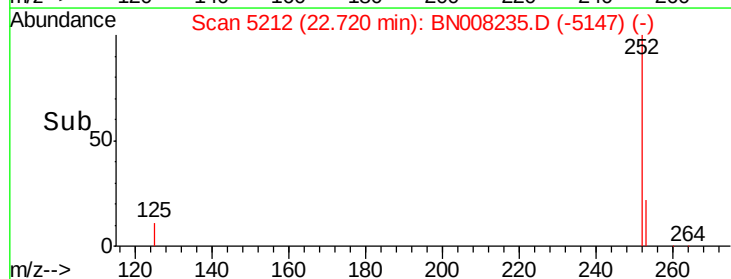
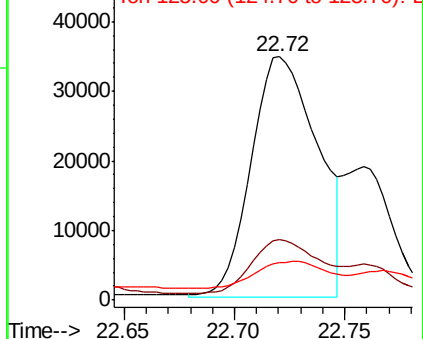
252 100

253 24.7 0.0 53.4

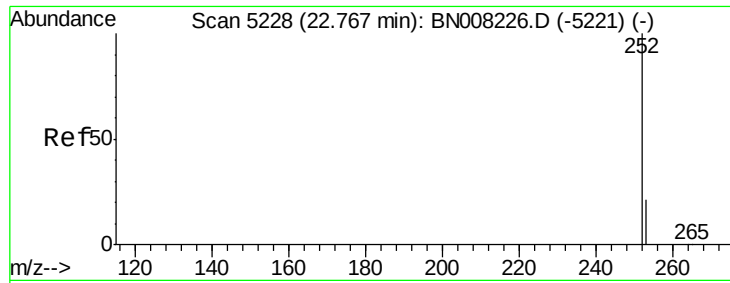
125 15.2 0.0 32.4



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







#22

Benzo(k)fluoranthene

Concen: 0.615 ng/ul m

RT: 22.76 min Scan# 5225

Delta R.T. -0.01 min

Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

Instrument :

BNA\_N

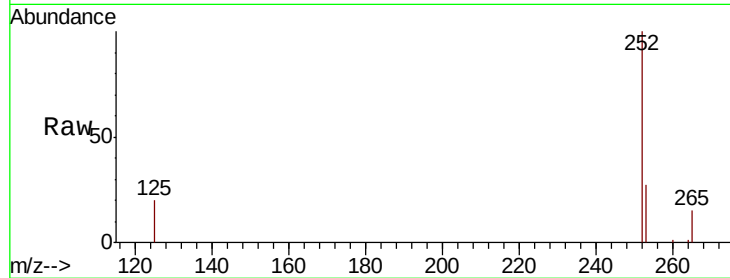
ClientSampleId :

BEP97

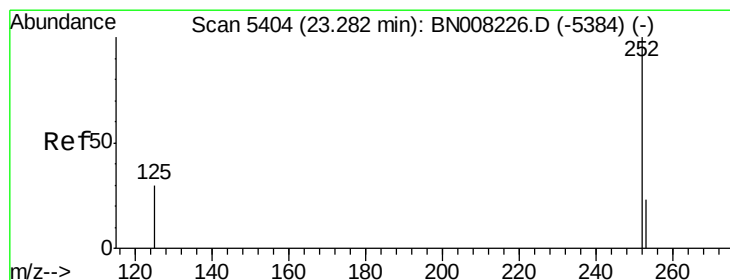
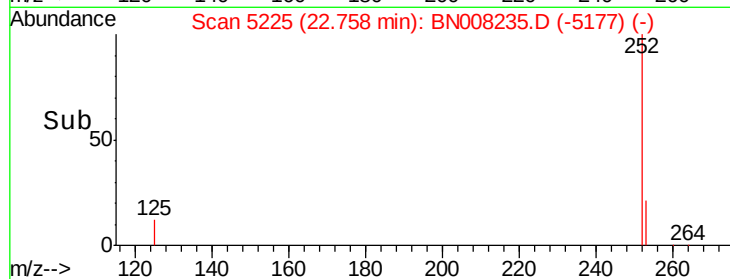
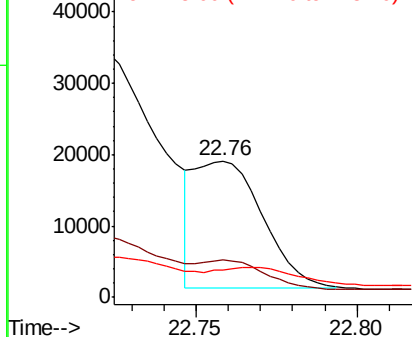
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 25790 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.1  | 21.3  | 31.9  |
| 125       | 20.2  | 12.3  | 18.5# |

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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



#23

Benzo(a)pyrene

Concen: 1.338 ng/ul

RT: 23.27 min Scan# 5401

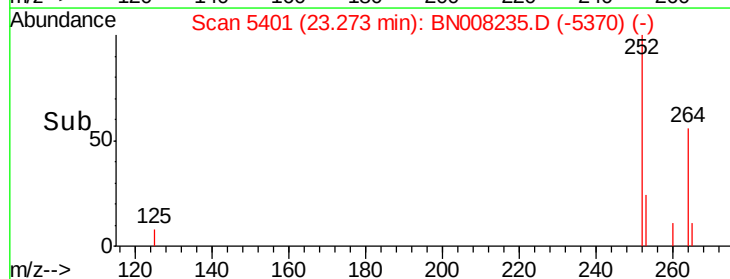
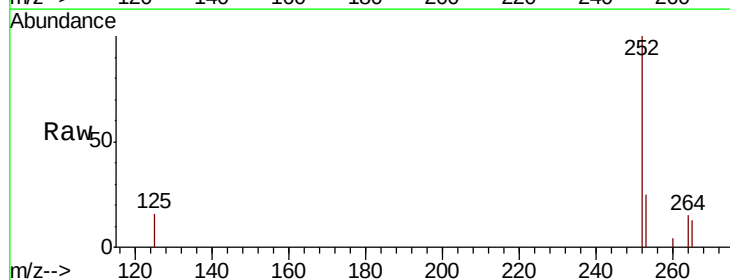
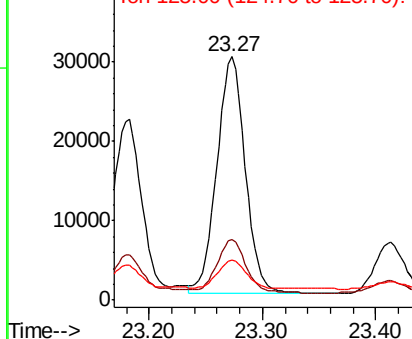
Delta R.T. -0.01 min

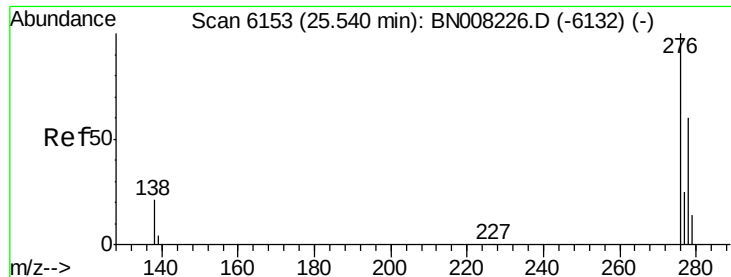
Lab File: BN008235.D

Acq: 17 Oct 2019 23:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 52145 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 22.8  | 34.2  |
| 125       | 16.4  | 18.4  | 27.6# |

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





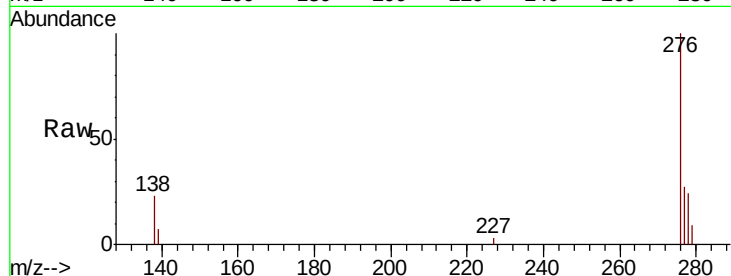
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.740 ng/ul  
 RT: 25.53 min Scan# 6150  
 Delta R.T. -0.01 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP97

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.3  | 16.1  | 24.1  |
| 227     | 0.0   | 0.2   | 0.2   |

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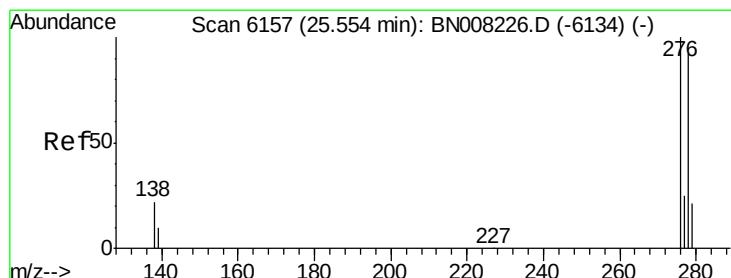
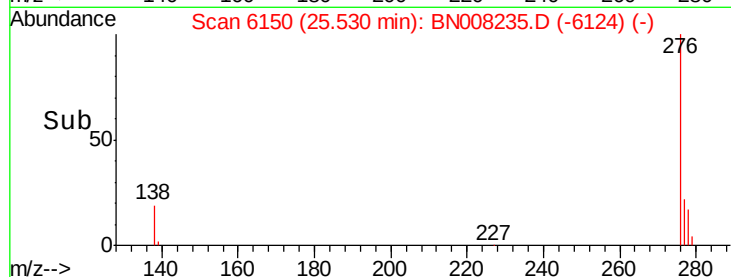
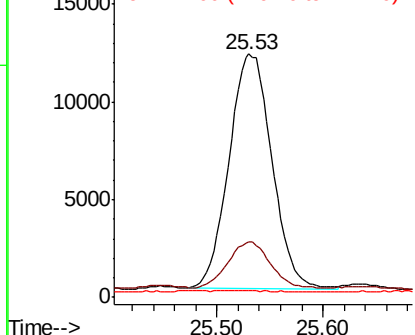


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.238 ng/ul  
 RT: 25.54 min Scan# 6152  
 Delta R.T. -0.02 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

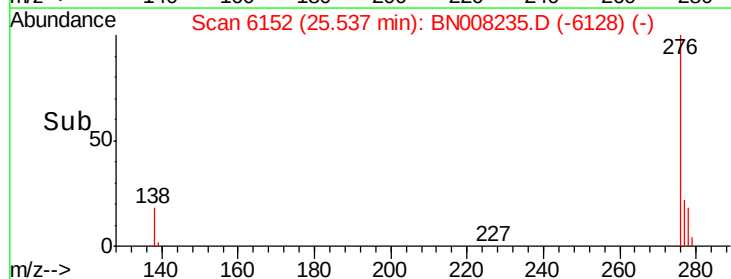
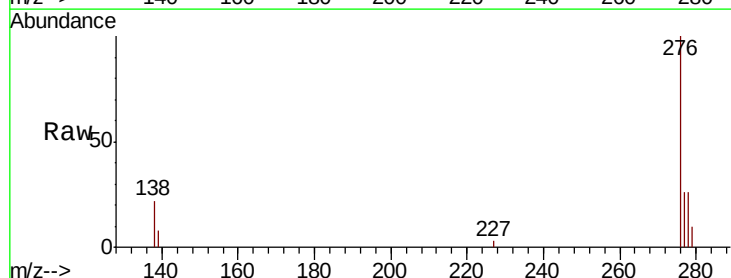
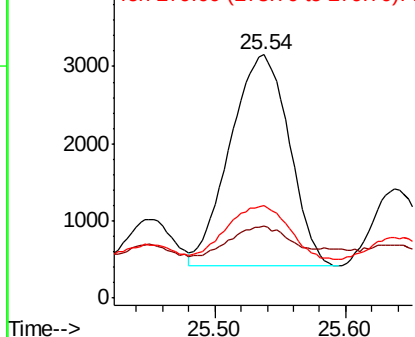
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 29.5  | 15.0  | 22.6  |
| 279     | 38.0  | 22.4  | 33.6  |

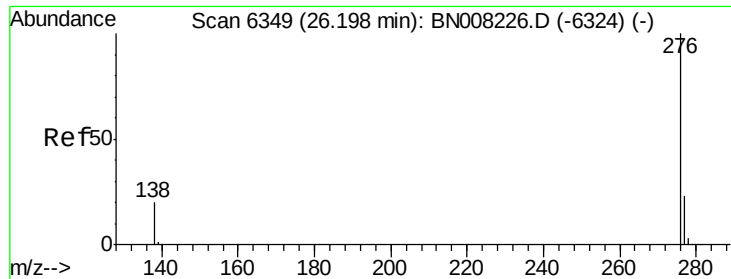
Abundance

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





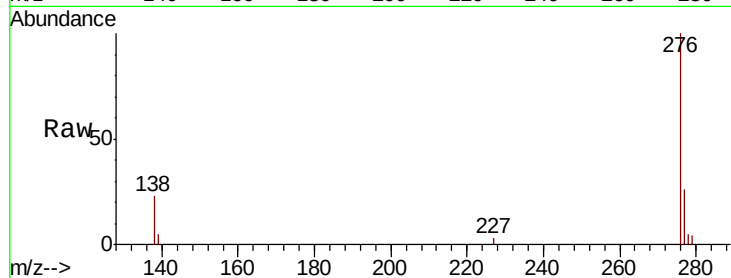
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.813 ng/ul  
 RT: 26.19 min Scan# 6347  
 Delta R.T. -0.01 min  
 Lab File: BN008235.D  
 Acq: 17 Oct 2019 23:34

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP97

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 34216 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.7  | 17.0  | 25.4  |
| 277       | 25.8  | 20.4  | 30.6  |

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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

