

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
 Data File : BN008402.D  
 Acq On : 24 Oct 2019 23:47  
 Operator : JU  
 Sample : K5236-02DL 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPC3DL

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Quant Time: Oct 25 01:03:55 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 : Wed Oct 23 14:07:55 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.57  | 152  | 1743     | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.34 | 136  | 8394     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.21 | 164  | 5432     | 0.40 | ng/ul | -0.01    |
| 10) Phenanthrene-d10      | 16.96 | 188  | 11520    | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.17 | 240  | 9964     | 0.40 | ng/ul | -0.02    |
| 20) Perylene-d12          | 23.33 | 264  | 7993     | 0.40 | ng/ul | -0.02    |

|                             |       |     |      |      |       |       |
|-----------------------------|-------|-----|------|------|-------|-------|
| System Monitoring Compounds |       |     |      |      |       |       |
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152 | 398  | 0.03 | ng/ul | -0.01 |
| 14) Fluoranthene-d10        | 18.99 | 212 | 1298 | 0.03 | ng/ul | -0.02 |

|                            |       |     |        |        |        |     |
|----------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds           |       |     |        | Ovalue |        |     |
| 7) Acenaphthylene          | 13.93 | 152 | 1412   | 0.055  | ng/ul# | 87  |
| 12) Phenanthrene           | 17.00 | 178 | 9689   | 0.287  | ng/ul  | 100 |
| 13) Anthracene             | 17.09 | 178 | 2487   | 0.084  | ng/ul# | 93  |
| 15) Fluoranthene           | 19.03 | 202 | 23456  | 0.527  | ng/ul  | 98  |
| 17) Pyrene                 | 19.39 | 202 | 26929  | 0.679  | ng/ul  | 98  |
| 18) Benzo(a)anthracene     | 21.15 | 228 | 13911  | 0.384  | ng/ul  | 96  |
| 19) Chrysene               | 21.20 | 228 | 15006  | 0.338  | ng/ul  | 98  |
| 21) Benzo(b)fluoranthene   | 22.69 | 252 | 15400m | 0.592  | ng/ul  |     |
| 22) Benzo(k)fluoranthene   | 22.73 | 252 | 4987m  | 0.169  | ng/ul  |     |
| 23) Benzo(a)pyrene         | 23.24 | 252 | 11096  | 0.405  | ng/ul  | 99  |
| 24) Indeno(1,2,3-cd)pyrene | 25.48 | 276 | 6451   | 0.200  | ng/ul  | 98  |
| 25) Dibenzo(a,h)anthracene | 25.48 | 278 | 1557   | 0.061  | ng/ul# | 62  |
| 26) Benzo(g,h,i)perylene   | 26.14 | 276 | 6286   | 0.213  | ng/ul  | 94  |

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

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Sample : K5236-02DL 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

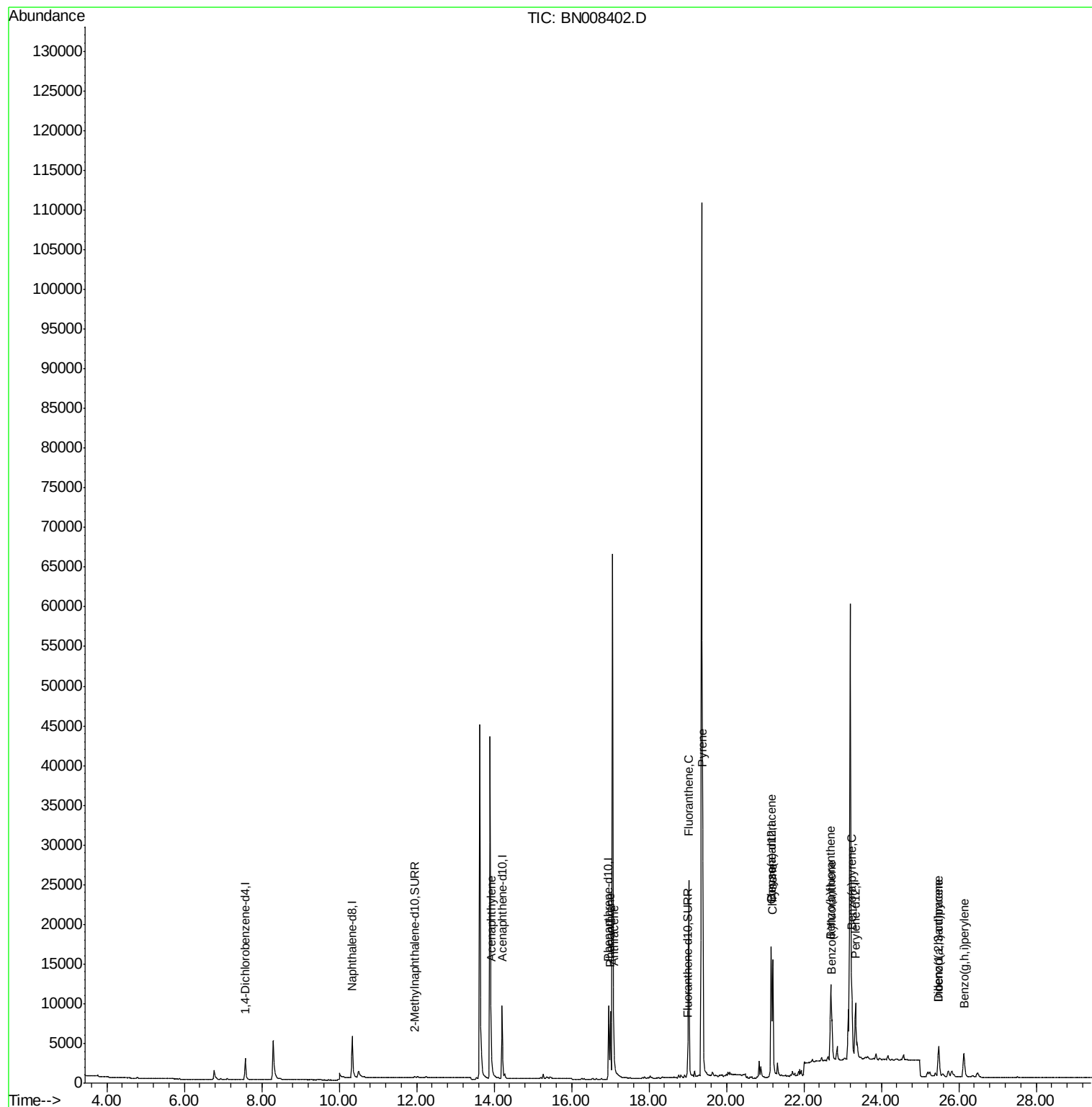
Instrument :  
BNA\_N  
ClientSampleId :  
BEPC3DL

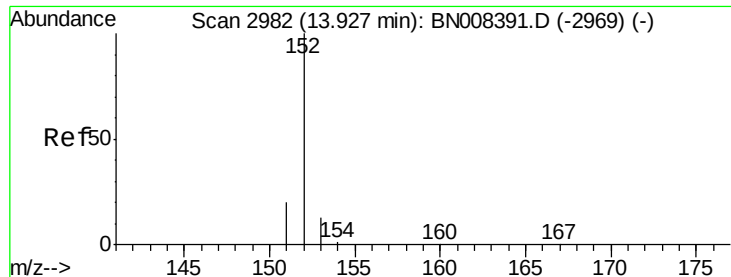
Quant Time: Oct 25 01:03:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 23 14:07:55 2019  
Response via : Initial Calibration

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#7

Acenaphthylene

Concen: 0.055 ng/ul

RT: 13.93 min Scan# 2982

Delta R.T. -0.02 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

Instrument :

BNA\_N

ClientSampleId :

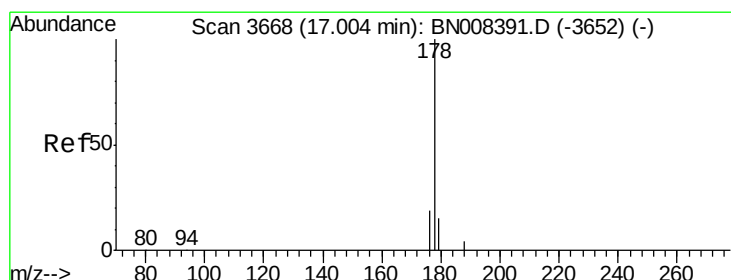
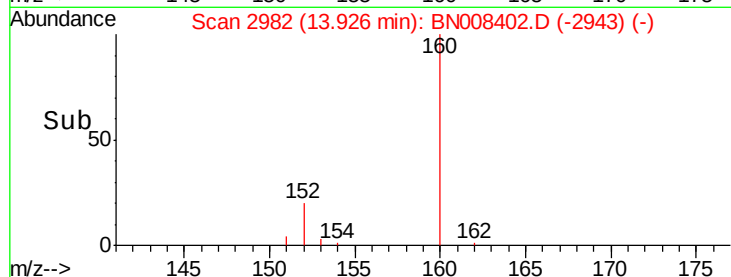
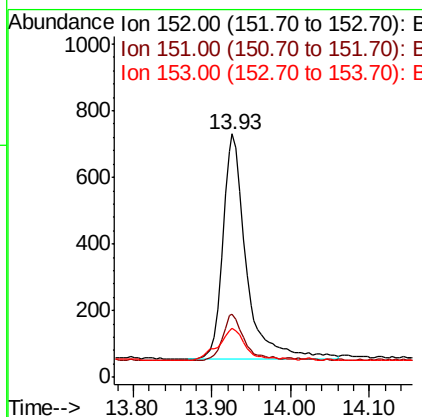
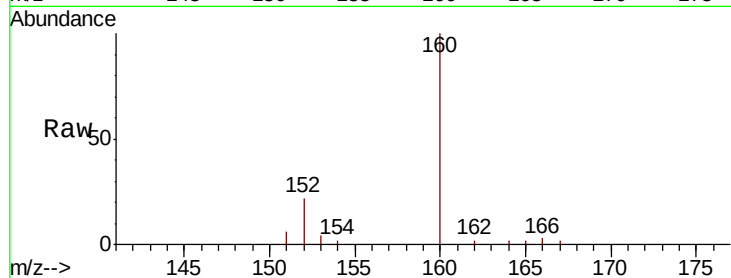
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1412  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 25.9  | 16.2  | 24.4# |
| 153       | 20.0  | 11.0  | 16.4# |

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#12

Phenanthrene

Concen: 0.287 ng/ul

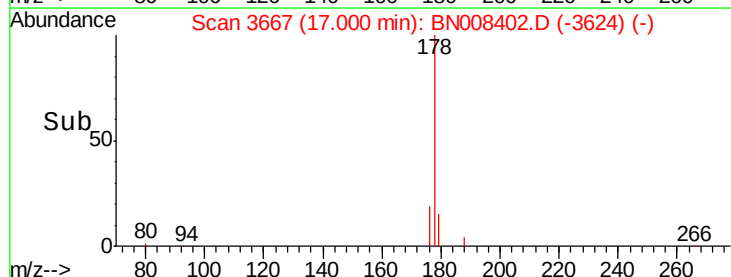
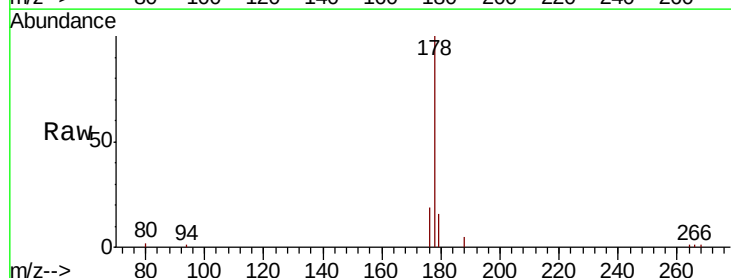
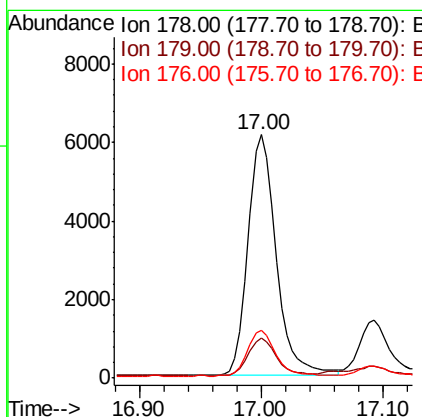
RT: 17.00 min Scan# 3667

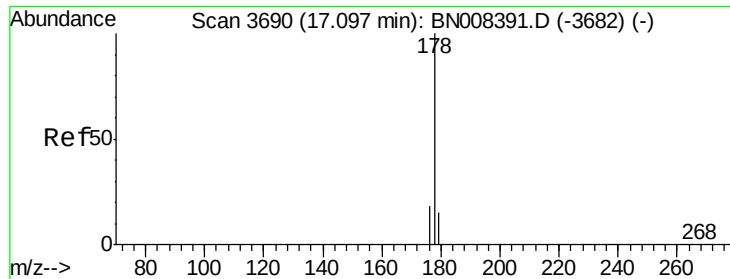
Delta R.T. -0.02 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 9689 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.3  | 12.8  | 19.2 |
| 176       | 19.4  | 15.4  | 23.2 |





#13

Anthracene

Concen: 0.084 ng/ul

RT: 17.09 min Scan# 3689

Delta R.T. -0.02 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

Instrument :

BNA\_N

ClientSampleId :

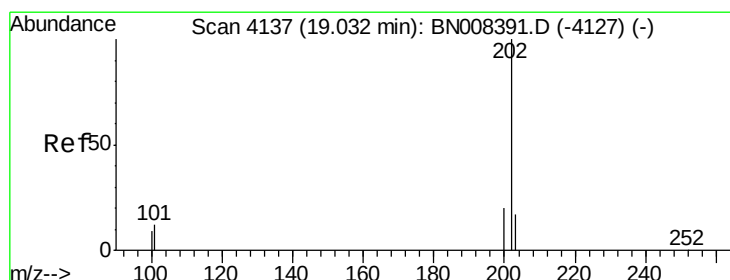
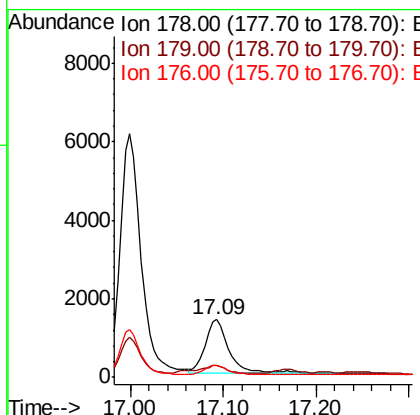
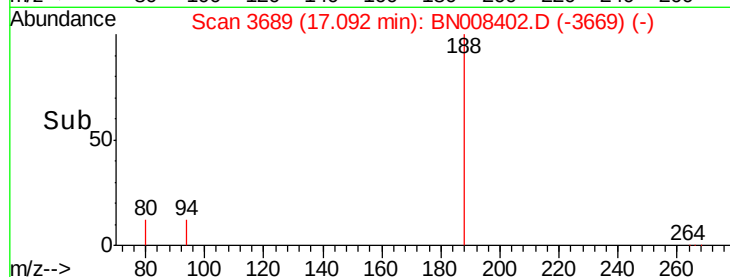
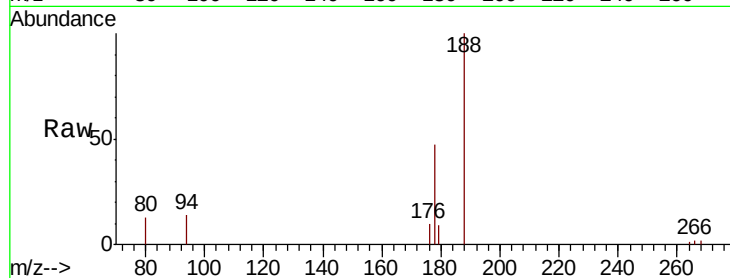
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 2487  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 20.3  | 13.0  | 19.6# |
| 176       | 20.6  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 0.527 ng/ul

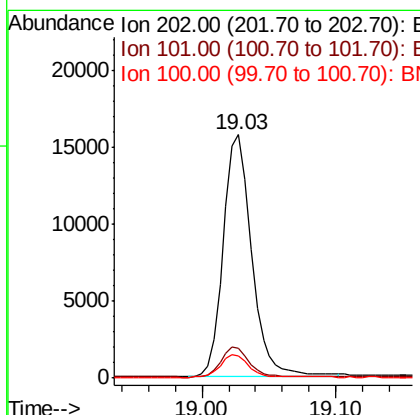
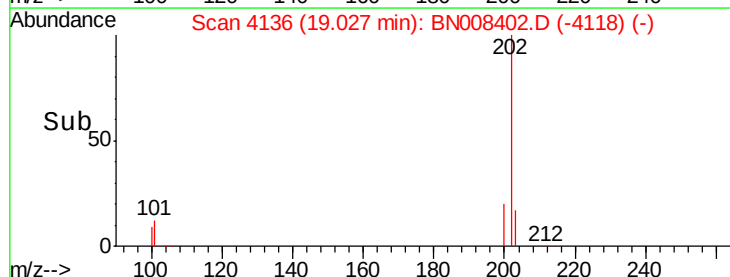
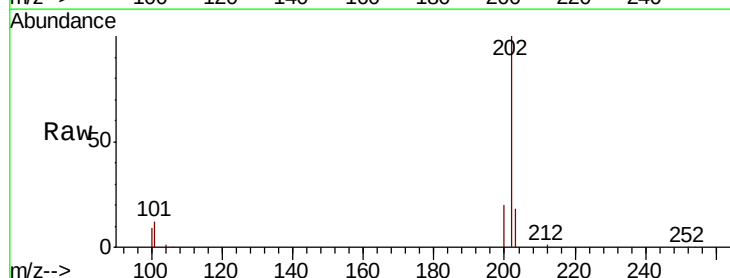
RT: 19.03 min Scan# 4136

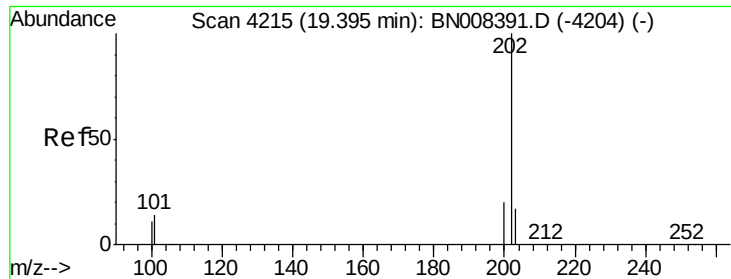
Delta R.T. -0.01 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 23456 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.1  | 0.0   | 31.2  |
| 100       | 9.0   | 0.0   | 28.5  |





#17  
 Pyrene  
 Concen: 0.679 ng/ul  
 RT: 19.39 min Scan# 4214  
 Delta R.T. -0.01 min  
 Lab File: BN008402.D  
 Acq: 24 Oct 2019 23:47

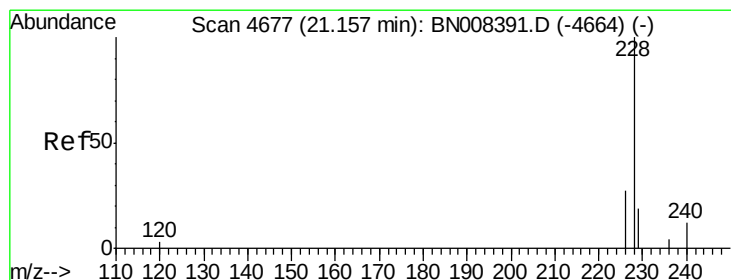
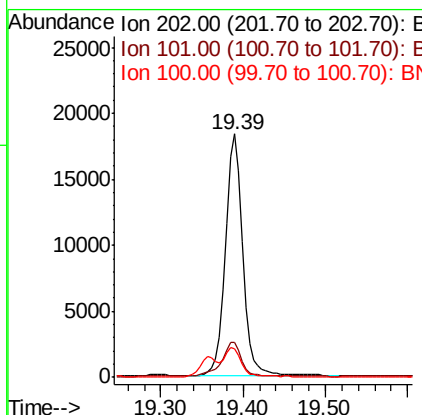
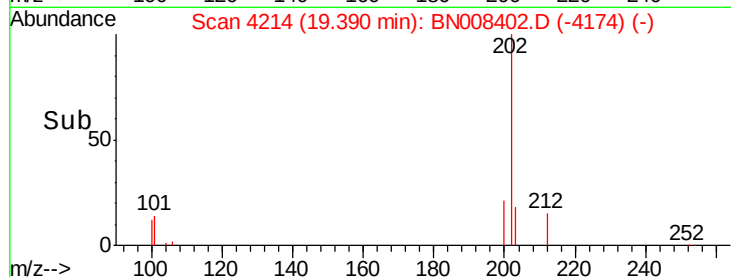
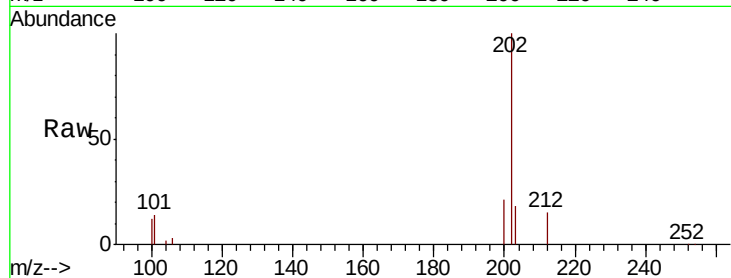
Instrument :  
 BNA\_N  
 ClientSampleID :  
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 26929 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.1  | 10.9  | 16.3  |
| 100       | 11.8  | 8.7   | 13.1  |

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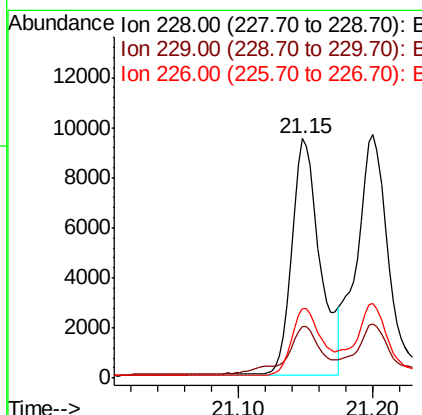
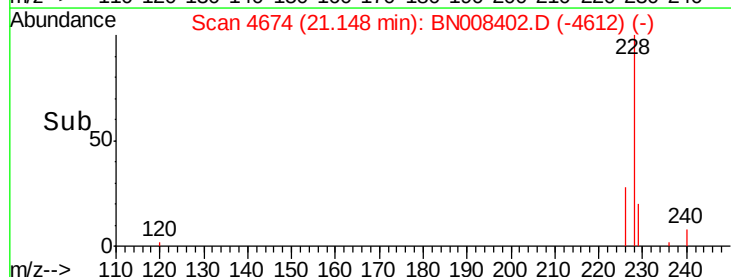
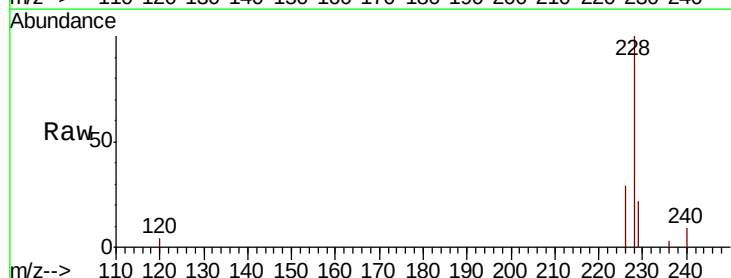
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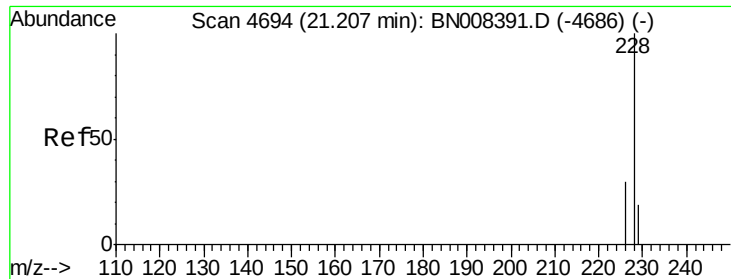
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#18  
 Benzo(a)anthracene  
 Concen: 0.384 ng/ul  
 RT: 21.15 min Scan# 4674  
 Delta R.T. -0.02 min  
 Lab File: BN008402.D  
 Acq: 24 Oct 2019 23:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 13911 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.6  | 16.2  | 24.2  |
| 226       | 29.1  | 21.4  | 32.0  |





#19

Chrysene

Concen: 0.338 ng/ul

RT: 21.20 min Scan# 4692

Delta R.T. -0.02 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

Instrument :

BNA\_N

ClientSampleId :

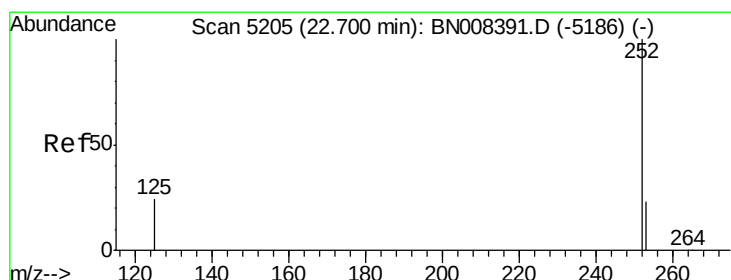
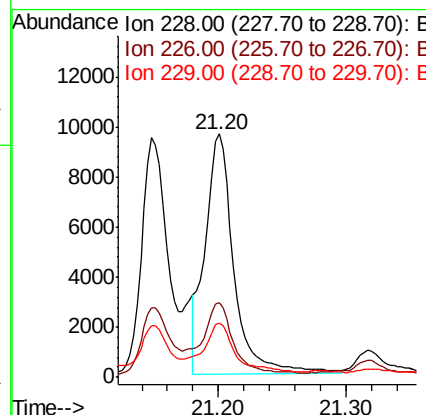
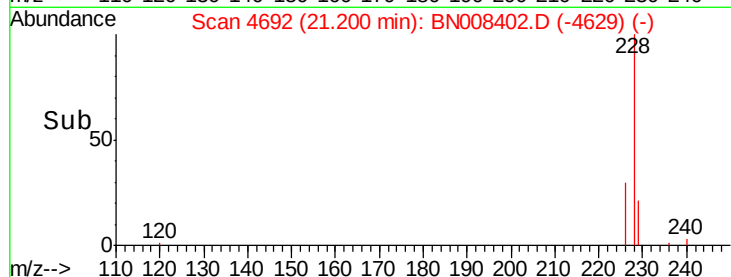
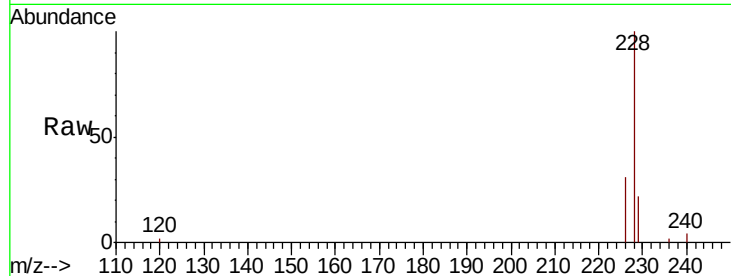
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|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 15006 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 30.7    | 24.1  | 36.1  |
| 229 22.2    | 16.2  | 24.2  |

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#21

Benzo(b)fluoranthene

Concen: 0.592 ng/ul m

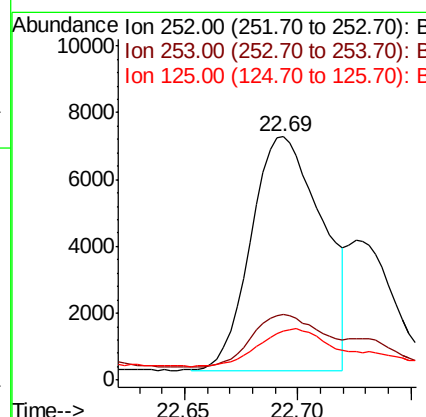
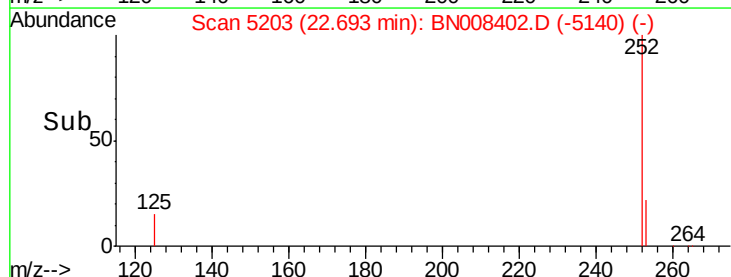
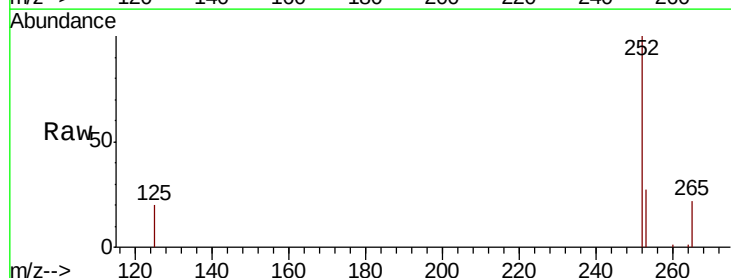
RT: 22.69 min Scan# 5203

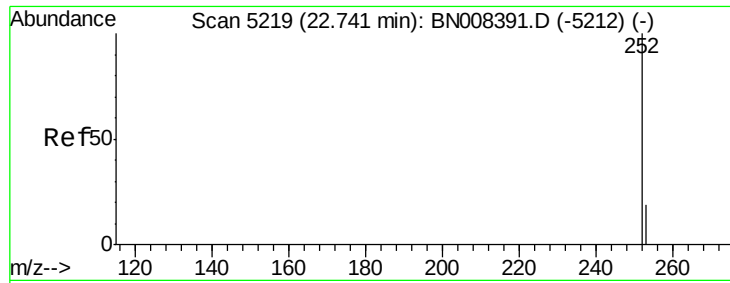
Delta R.T. -0.02 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 15400 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 26.8    | 0.0   | 53.4  |
| 125 20.2    | 0.0   | 32.4  |





#22

Benzo(k)fluoranthene

Concen: 0.169 ng/ul m

RT: 22.73 min Scan# 5214

Delta R.T. -0.03 min

Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

Instrument :

BNA\_N

ClientSampleId :

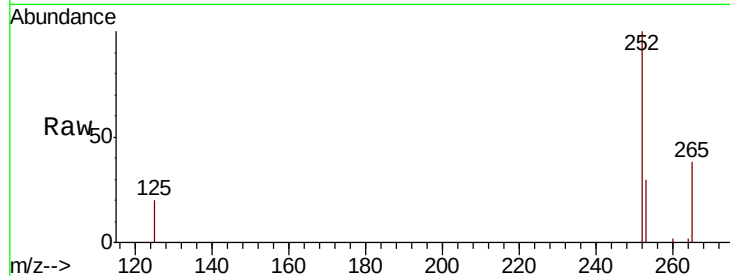
BEPC3DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 4987  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.9  | 21.3  | 31.9  |
| 125       | 20.3  | 12.3  | 18.5# |

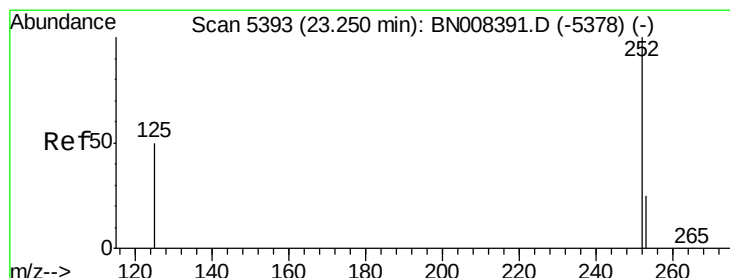
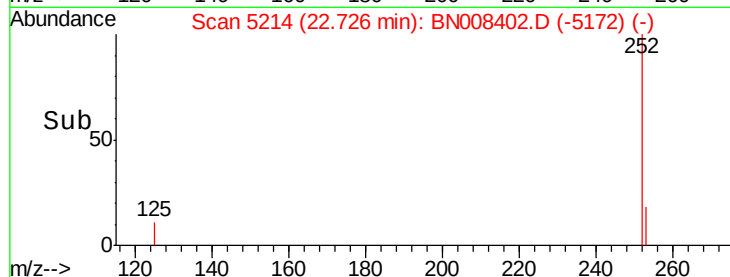
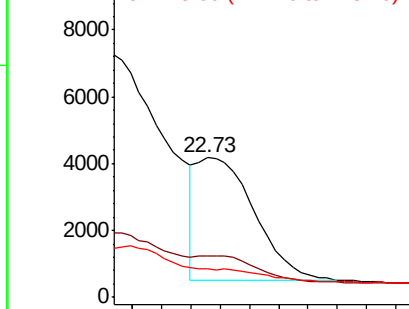
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#23

Benzo(a)pyrene

Concen: 0.405 ng/ul

RT: 23.24 min Scan# 5389

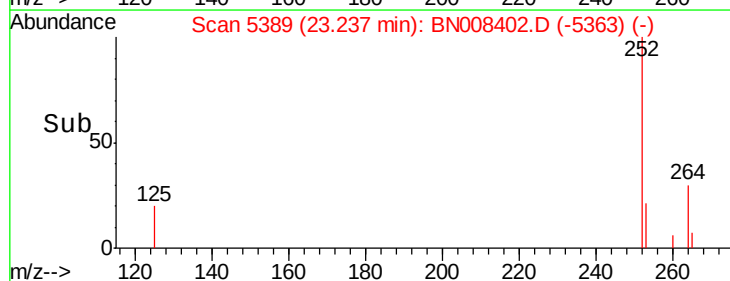
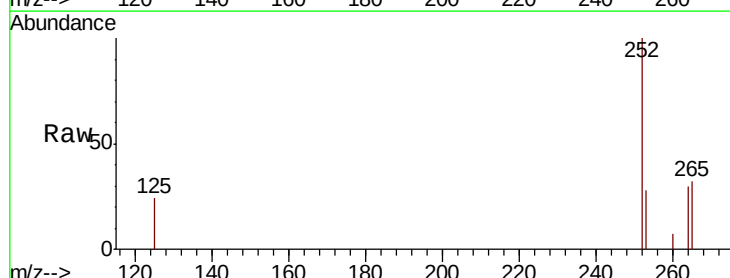
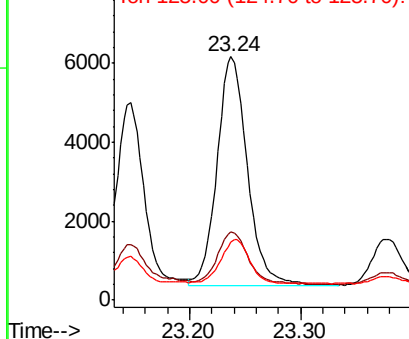
Delta R.T. -0.02 min

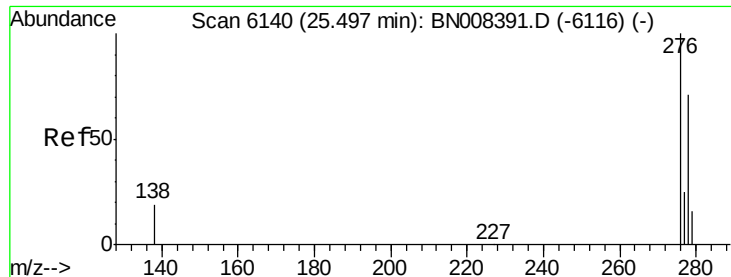
Lab File: BN008402.D

Acq: 24 Oct 2019 23:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 11096 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.0  | 22.8  | 34.2  |
| 125       | 23.8  | 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: 0.200 ng/ul  
RT: 25.48 min Scan# 6136  
Delta R.T. -0.03 min  
Lab File: BN008402.D  
Acq: 24 Oct 2019 23:47

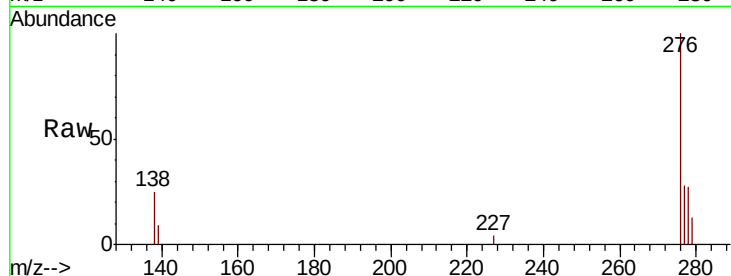
Instrument :  
BNA\_N  
ClientSampleId :  
BEPC3DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 6451 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 19.2  | 16.1  | 24.1 |
| 227       | 0.2   | 0.2   | 0.2  |

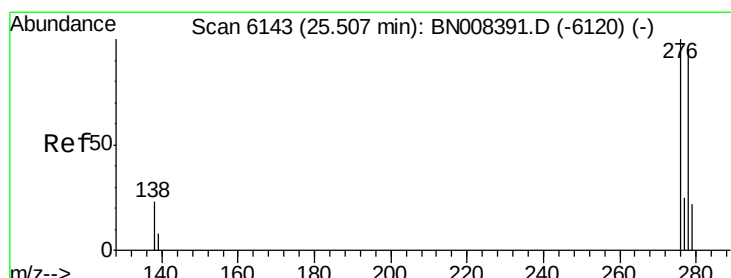
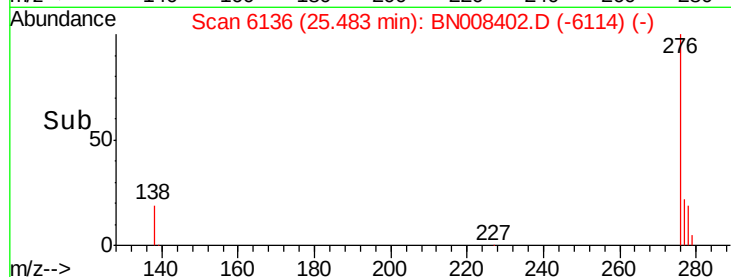
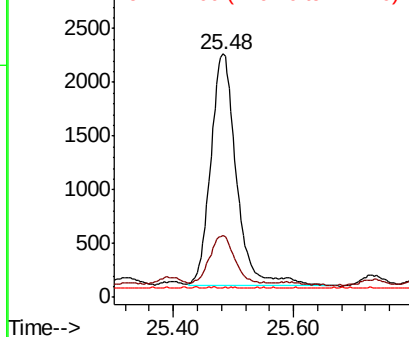
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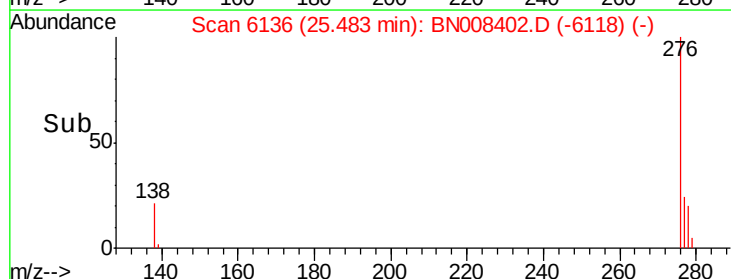
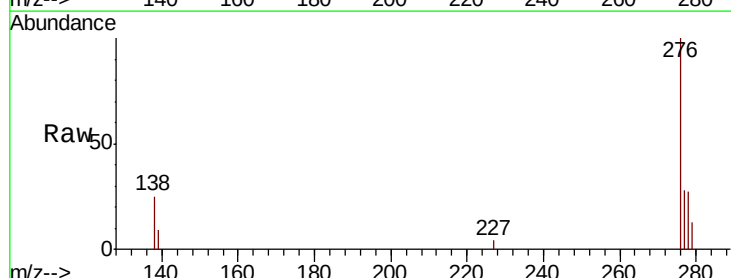
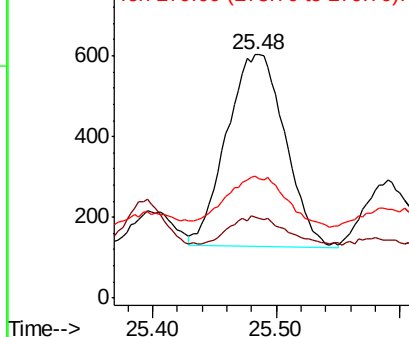
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



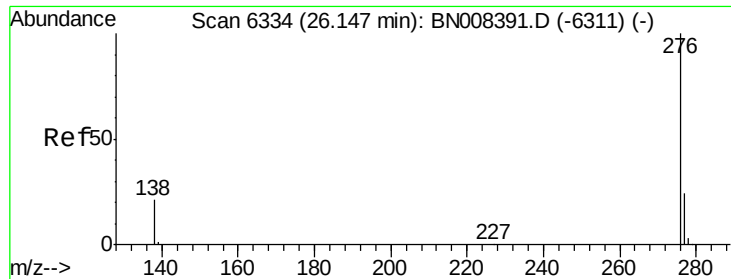
#25  
Dibenzo(a,h)anthracene  
Concen: 0.061 ng/ul  
RT: 25.48 min Scan# 6136  
Delta R.T. -0.04 min  
Lab File: BN008402.D  
Acq: 24 Oct 2019 23:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 1557  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 33.3  | 15.0  | 22.6# |
| 279       | 50.2  | 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: 0.213 ng/ul  
 RT: 26.14 min Scan# 6331  
 Delta R.T. -0.03 min  
 Lab File: BN008402.D  
 Acq: 24 Oct 2019 23:47

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPC3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.2  | 17.0  | 25.4  |
| 277     | 27.3  | 20.4  | 30.6  |

Manual Integrations  
 APPROVED

mohammad

10/25/2019 8:06:21 AM

