

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
 Data File : BN008420.D  
 Acq On : 25 Oct 2019 10:29  
 Operator : JU  
 Sample : K5236-12DL 5X  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPM2DL

Manual Integrations  
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Quant Time: Oct 25 12:16:25 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 : Fri Oct 25 00:45:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 2073     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 10325    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.21 | 164  | 6908     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 15030    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.17 | 240  | 11946    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.34 | 264  | 9807     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.94 | 152  | 577      | 0.03  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 2174m    | 0.04  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.38 | 128  | 2578     | 0.088 | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 12.01 | 142  | 2147     | 0.106 | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.93 | 152  | 14916    | 0.453 | ng/ul  | 99       |
| 8) Acenaphthene             | 14.27 | 153  | 4502     | 0.176 | ng/ul  | 98       |
| 9) Fluorene                 | 15.26 | 166  | 10266    | 0.353 | ng/ul  | 98       |
| 12) Phenanthrene            | 17.00 | 178  | 185908   | 4.225 | ng/ul  | 98       |
| 13) Anthracene              | 17.09 | 178  | 31881    | 0.823 | ng/ul  | 99       |
| 15) Fluoranthene            | 19.02 | 202  | 326616   | 5.620 | ng/ul  | 98       |
| 17) Pyrene                  | 19.39 | 202  | 251441   | 5.286 | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.15 | 228  | 125430   | 2.888 | ng/ul  | 98       |
| 19) Chrysene                | 21.20 | 228  | 122113   | 2.291 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.69 | 252  | 131043m  | 4.105 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.73 | 252  | 53956m   | 1.492 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.24 | 252  | 86366m   | 2.571 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.48 | 276  | 52936    | 1.338 | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 13337    | 0.426 | ng/ul# | 90       |
| 26) Benzo(a,h,i)perylene    | 26.14 | 276  | 48254    | 1.330 | ng/ul  | 98       |

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

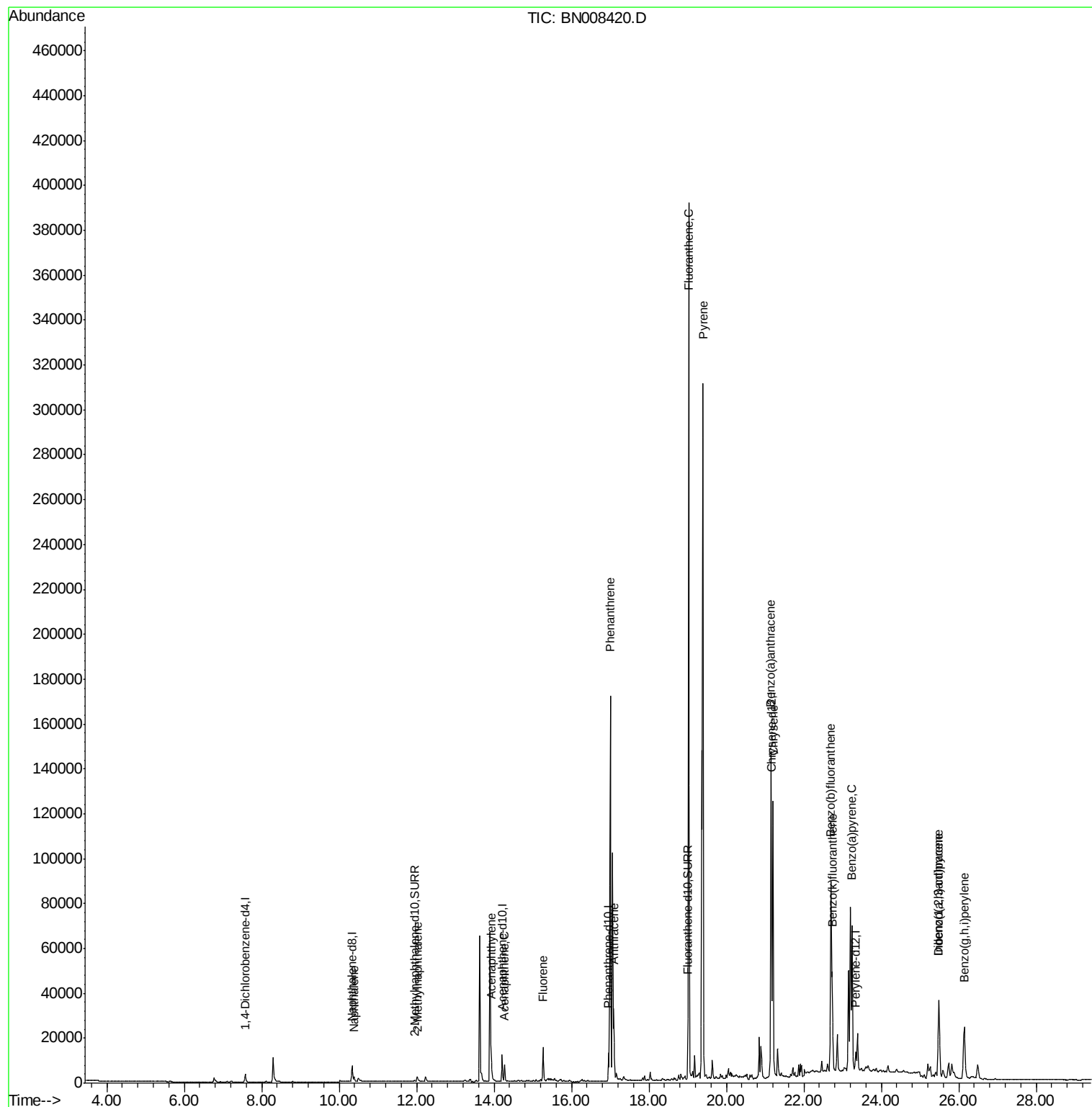
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
Data File : BN008420.D  
Acq On : 25 Oct 2019 10:29  
Operator : JU  
Sample : K5236-12DL 5X  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

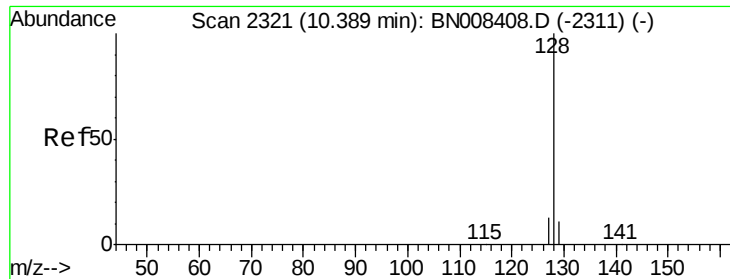
Instrument :  
BNA\_N  
ClientSampleId :  
BEPM2DL

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Quant Time: Oct 25 12:16:25 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 : Fri Oct 25 00:45:13 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.088 ng/ul

RT: 10.38 min Scan# 2320

Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

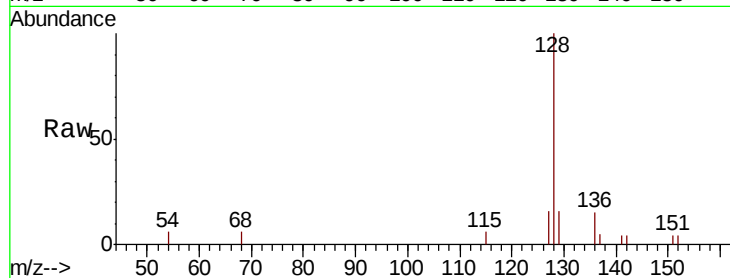
ClientSampleId :

BEPM2DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 2578  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 15.8  | 9.8   | 14.8# |
| 127      | 15.8  | 11.1  | 16.7  |

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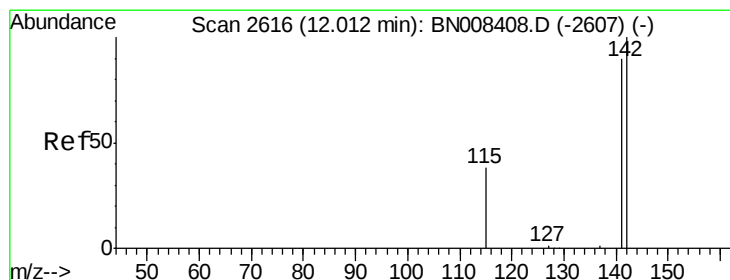
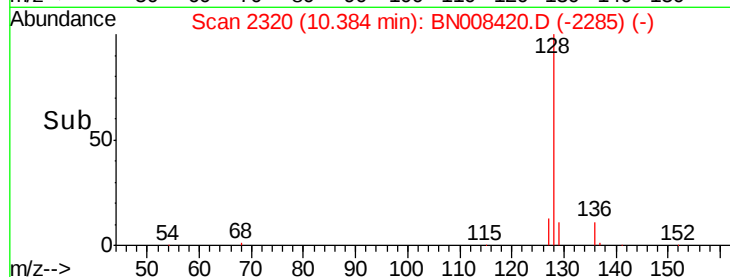
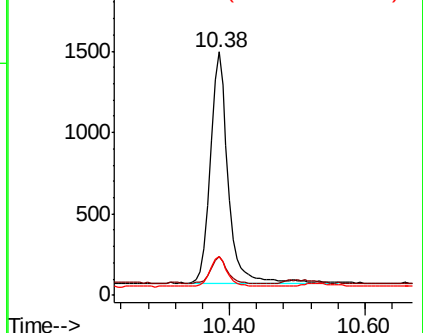
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.106 ng/ul

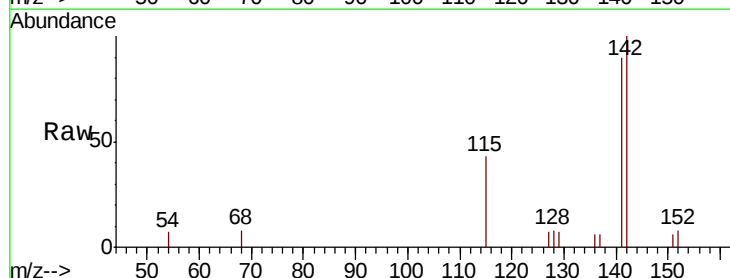
RT: 12.01 min Scan# 2616

Delta R.T. 0.00 min

Lab File: BN008420.D

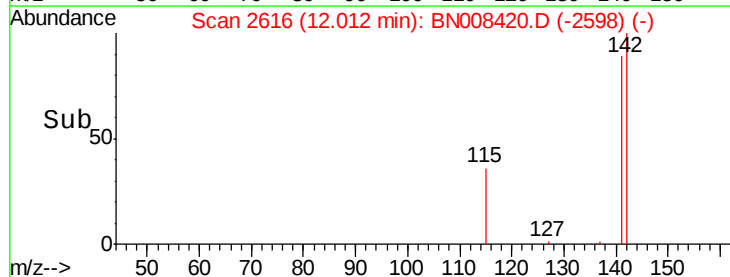
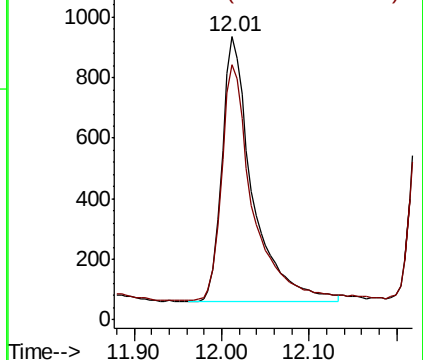
Acq: 25 Oct 2019 10:29

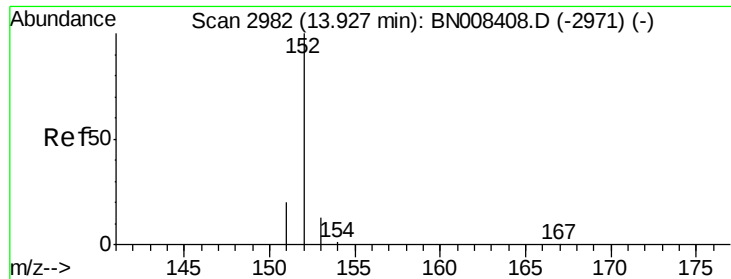
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2147  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.5  | 71.4  | 107.2 |



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.453 ng/ul

RT: 13.93 min Scan# 2982

Delta R.T. 0.00 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

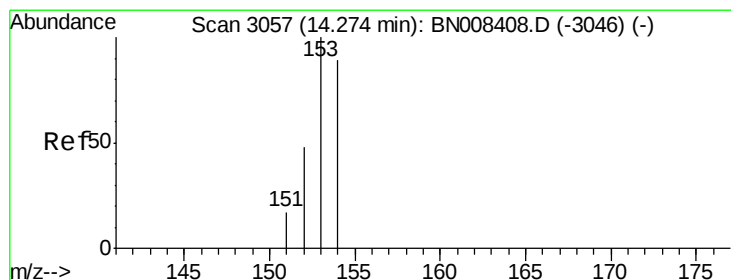
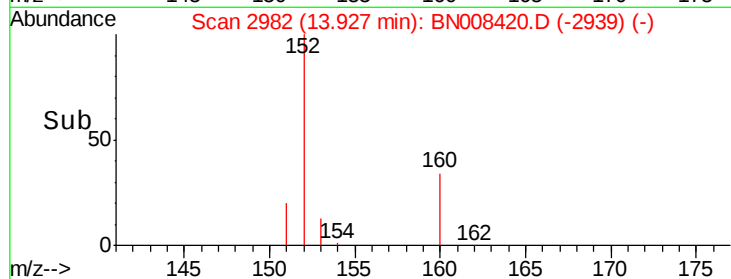
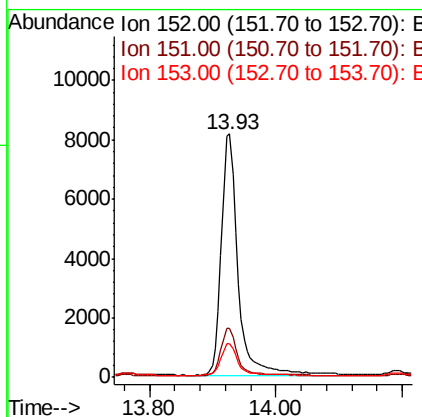
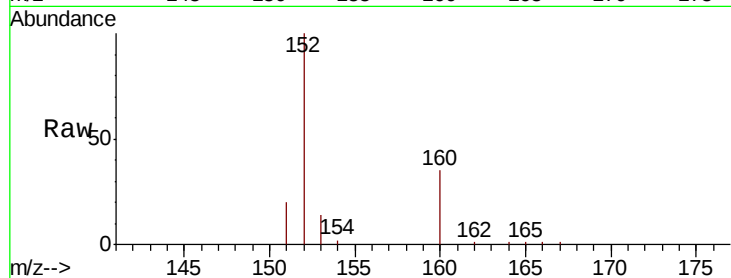
ClientSampleId :

BEPM2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 14916 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.2  | 16.2  | 24.4  |
| 153       | 14.1  | 11.0  | 16.4  |

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#8

Acenaphthene

Concen: 0.176 ng/ul

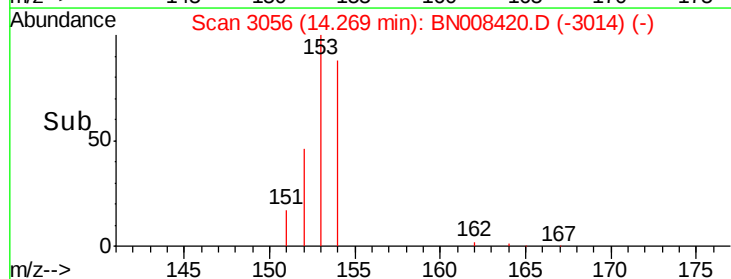
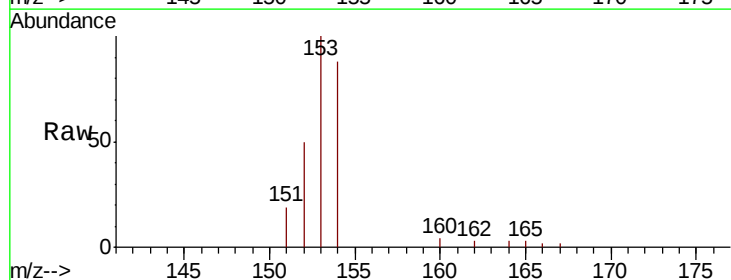
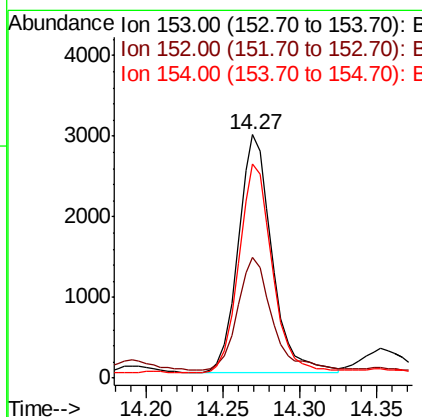
RT: 14.27 min Scan# 3056

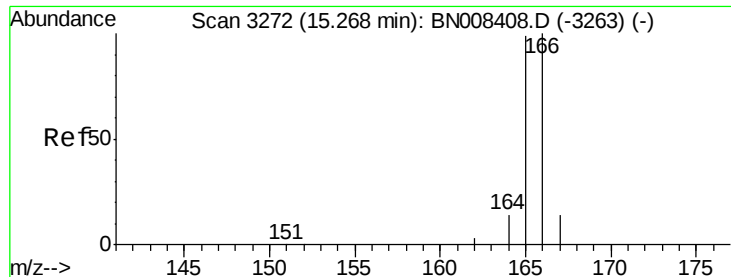
Delta R.T. -0.00 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 4502  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.7  | 38.2  | 57.2  |
| 154       | 87.9  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.353 ng/ul

RT: 15.26 min Scan# 3271

Delta R.T. -0.00 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

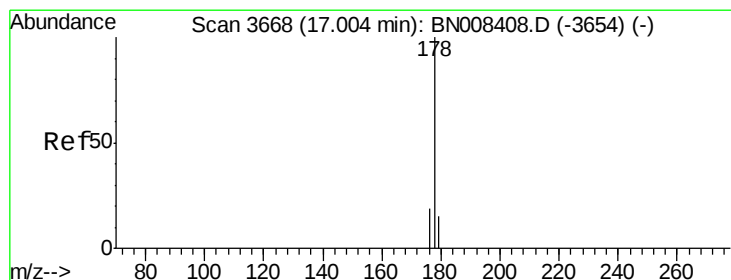
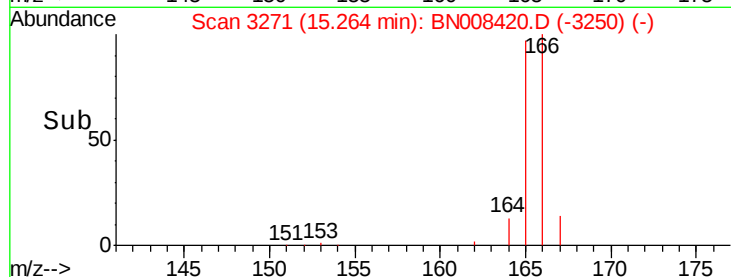
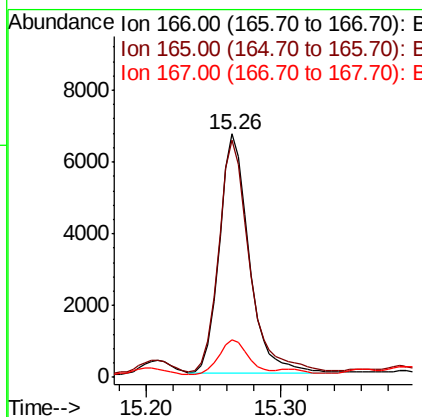
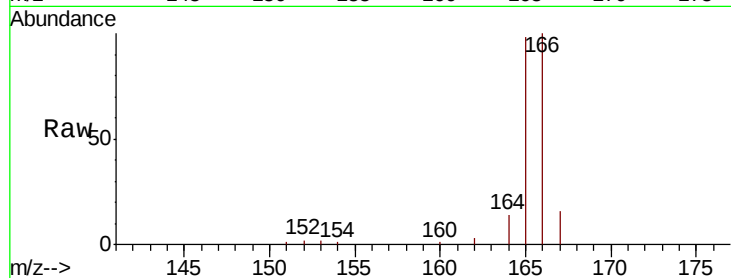
ClientSampleId :

BEPM2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 10266 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.6  | 76.6  | 115.0 |
| 167       | 15.5  | 11.7  | 17.5  |

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#12

Phenanthrene

Concen: 4.225 ng/ul

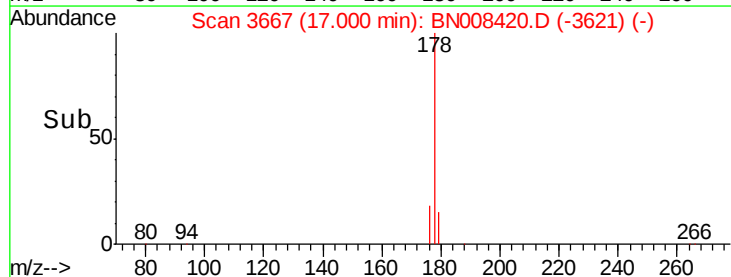
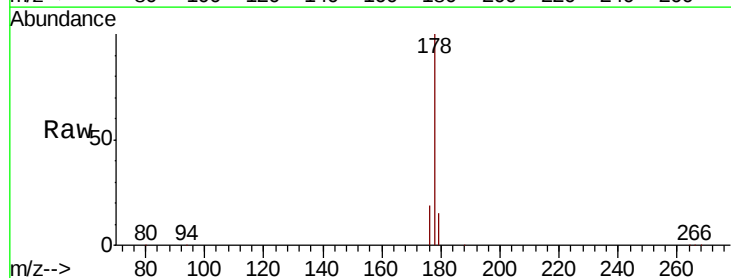
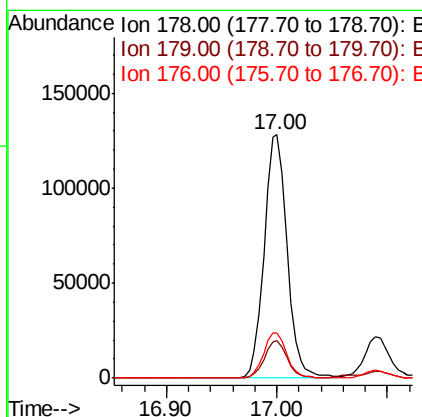
RT: 17.00 min Scan# 3667

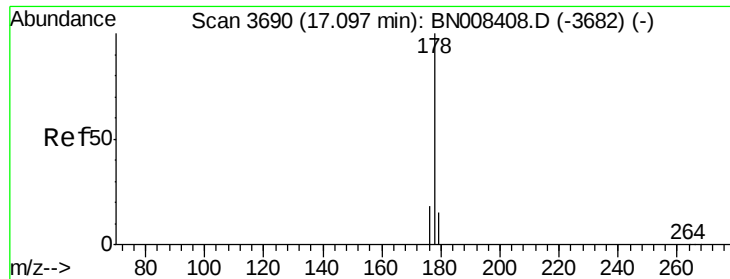
Delta R.T. -0.00 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 185908 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.8  | 19.2   |
| 176       | 18.5  | 15.4  | 23.2   |





#13

Anthracene

Concen: 0.823 ng/ul

RT: 17.09 min Scan# 3688

Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

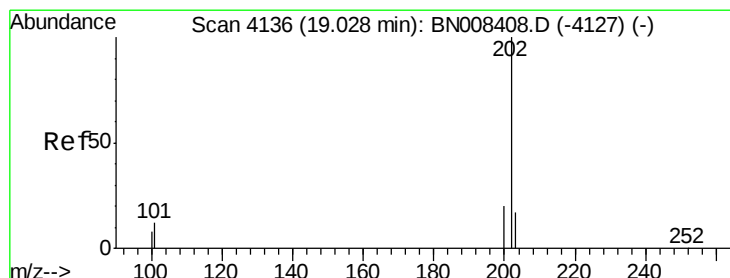
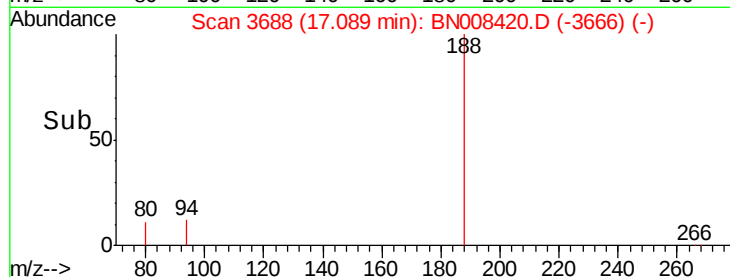
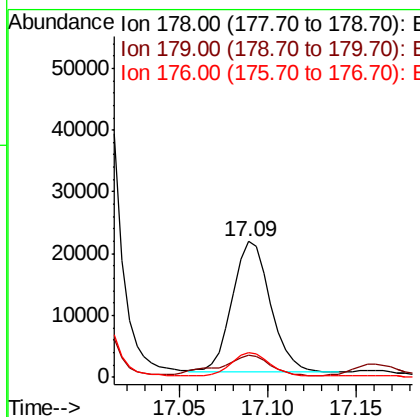
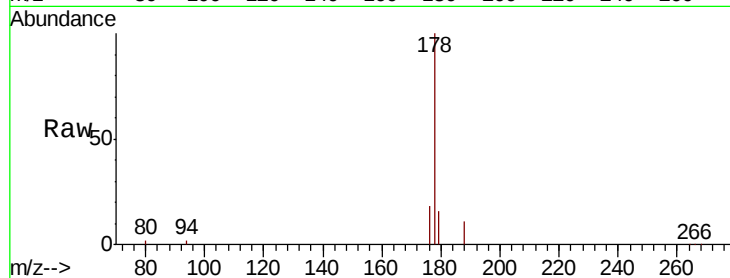
ClientSampleId :

BEPM2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 31881 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.4  | 13.0  | 19.6  |
| 176       | 18.4  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 5.620 ng/ul

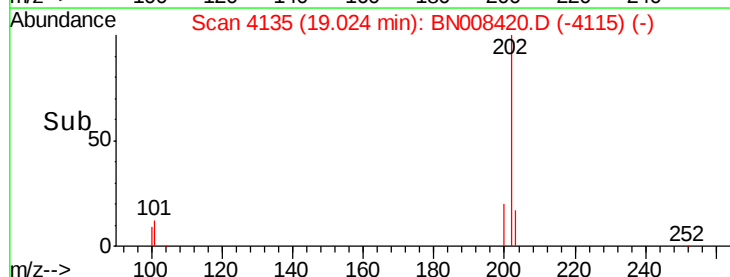
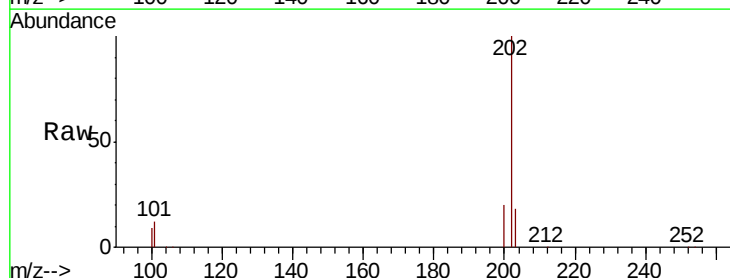
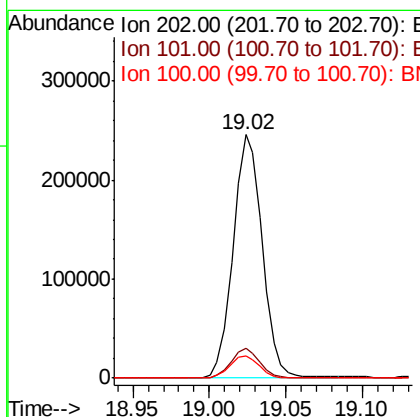
RT: 19.02 min Scan# 4135

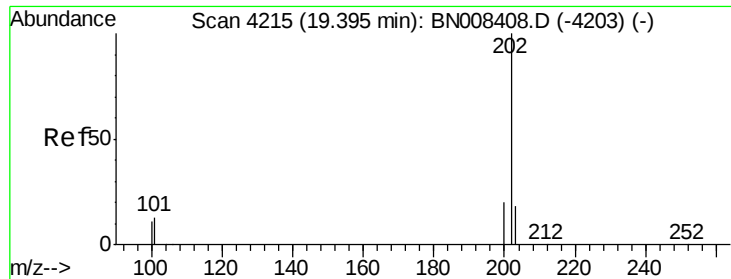
Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 326616 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.3  | 0.0   | 31.2   |
| 100       | 9.3   | 0.0   | 28.5   |





#17

Pvrene

Concen: 5.286 ng/ul

RT: 19.39 min Scan# 4214

Delta R.T. -0.00 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

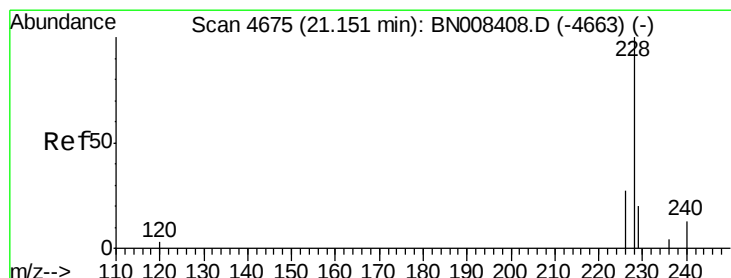
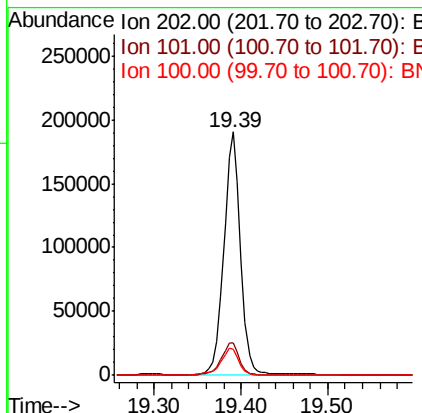
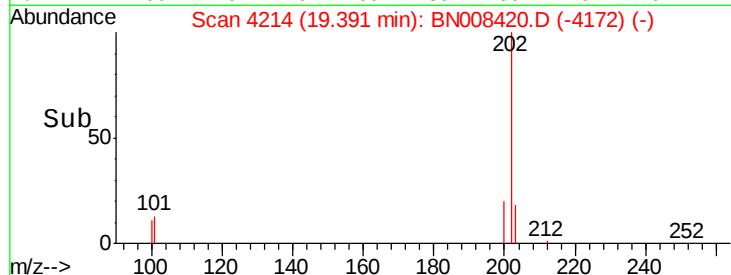
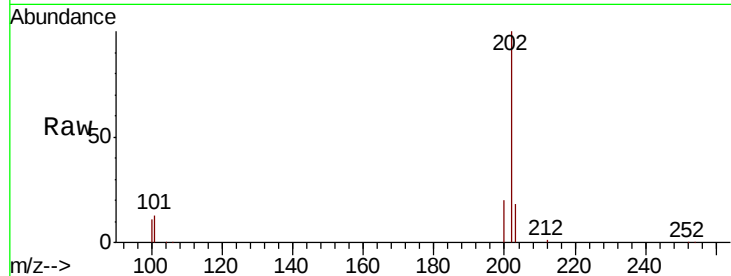
ClientSampleID :

BEPM2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 251441 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.4  | 10.9  | 16.3   |
| 100       | 10.8  | 8.7   | 13.1   |

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#18

Benzo(a)anthracene

Concen: 2.888 ng/ul

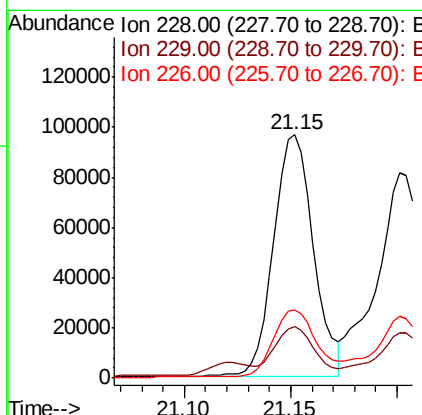
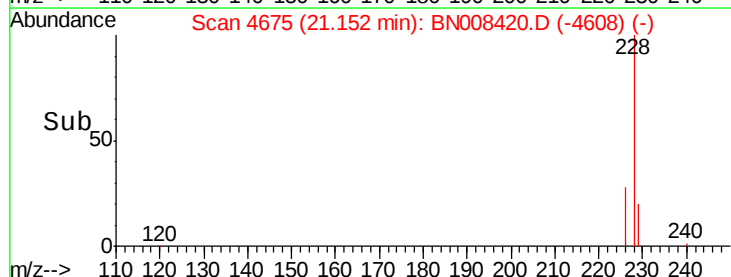
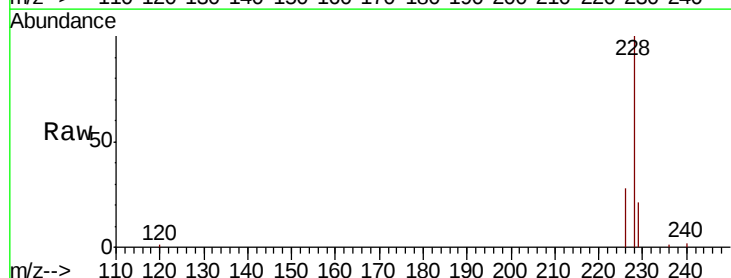
RT: 21.15 min Scan# 4675

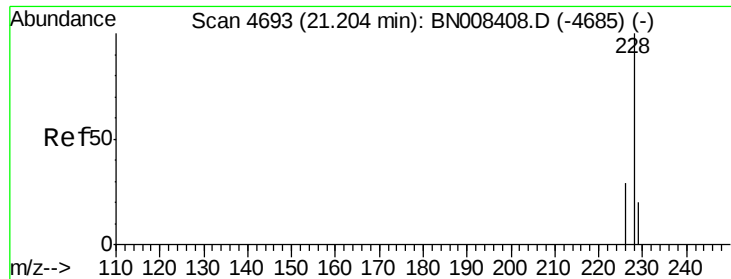
Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 125430 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.0  | 16.2  | 24.2   |
| 226       | 28.1  | 21.4  | 32.0   |





#19

Chrysene

Concen: 2.291 ng/ul

RT: 21.20 min Scan# 4692

Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

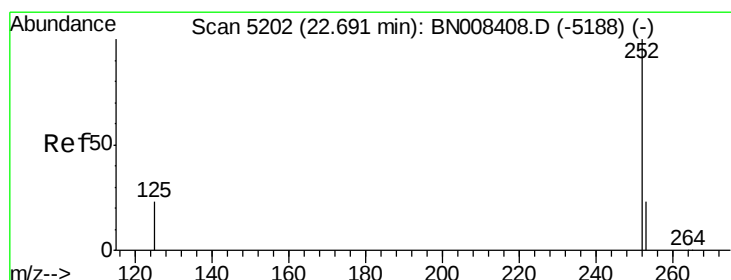
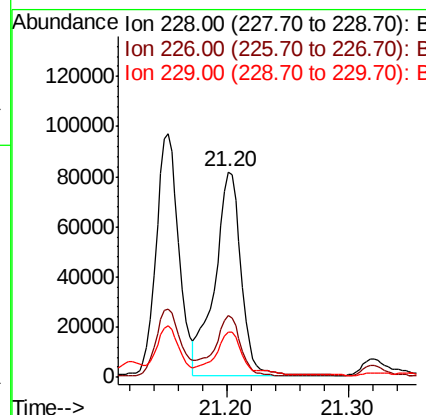
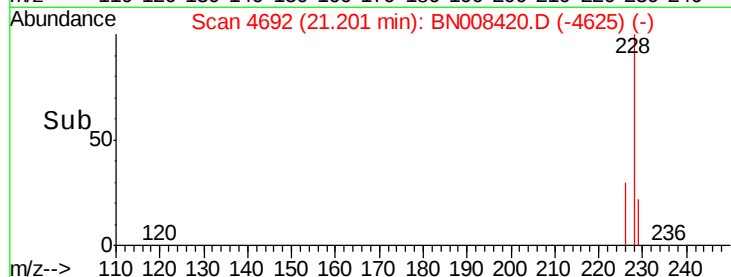
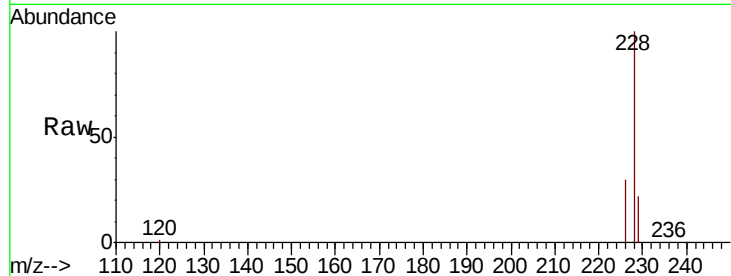
ClientSampleId :

BEPM2DL

|             |       |        |
|-------------|-------|--------|
| Tot Ion:228 | Resp: | 122113 |
| Ion Ratio   | Lower | Upper  |
| 228 100     |       |        |
| 226 29.8    | 24.1  | 36.1   |
| 229 22.1    | 16.2  | 24.2   |

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#21

Benzo(b)fluoranthene

Concen: 4.105 ng/ul m

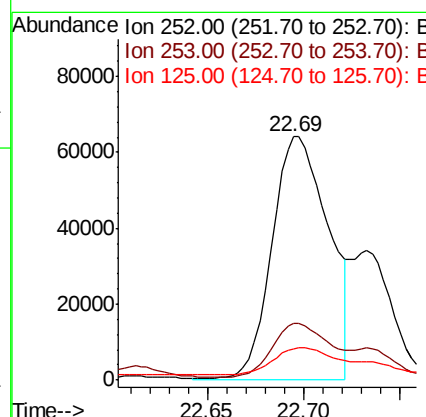
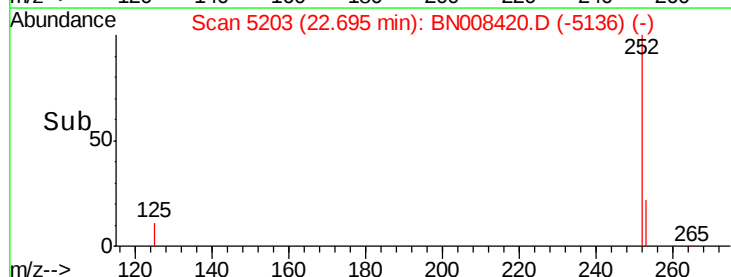
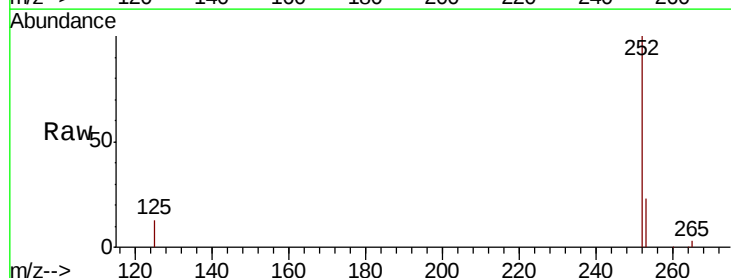
RT: 22.69 min Scan# 5203

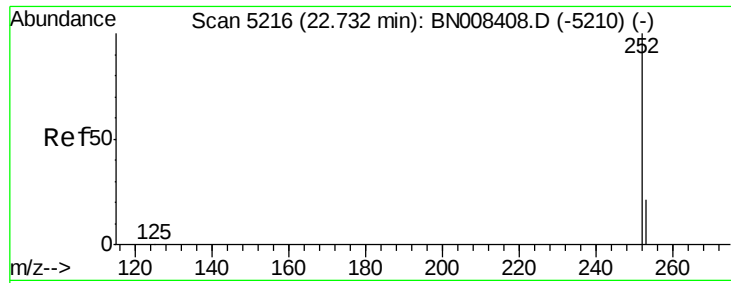
Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:252 | Resp: | 131043 |
| Ion Ratio   | Lower | Upper  |
| 252 100     |       |        |
| 253 23.2    | 0.0   | 53.4   |
| 125 12.6    | 0.0   | 32.4   |





#22

Benzo(k)fluoranthene

Concen: 1.492 ng/ul m

RT: 22.73 min Scan# 5216

Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

Instrument :

BNA\_N

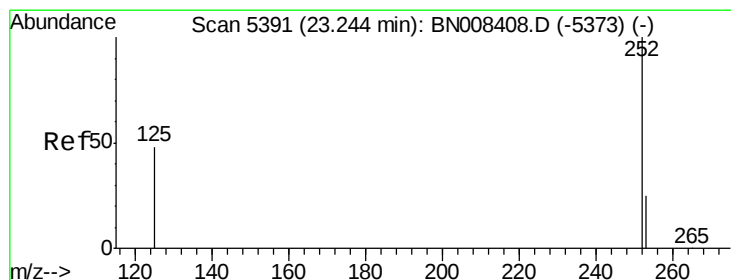
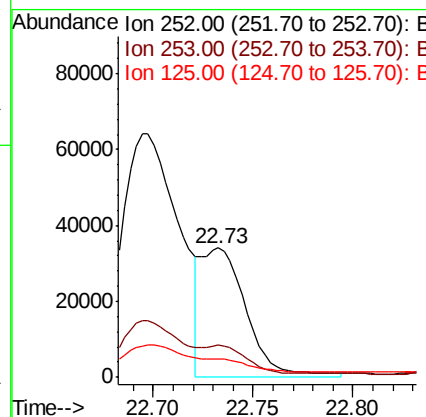
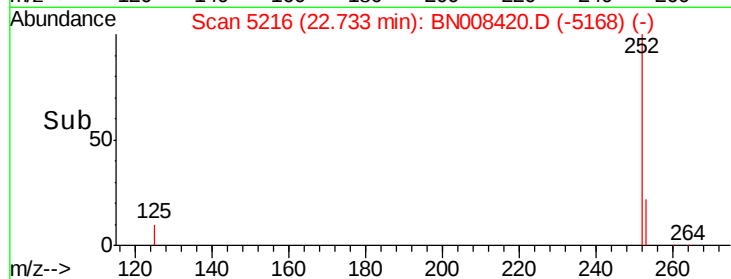
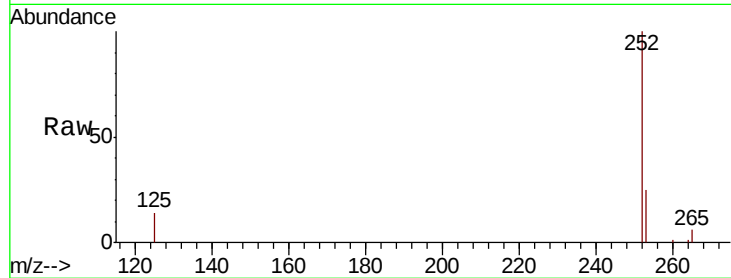
ClientSampleId :

BEPM2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 53956 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 21.3  | 31.9  |
| 125       | 14.0  | 12.3  | 18.5  |

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#23

Benzo(a)pyrene

Concen: 2.571 ng/ul m

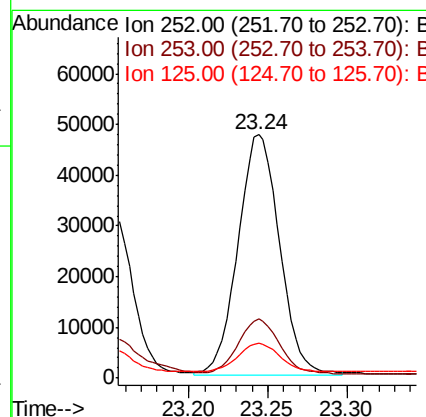
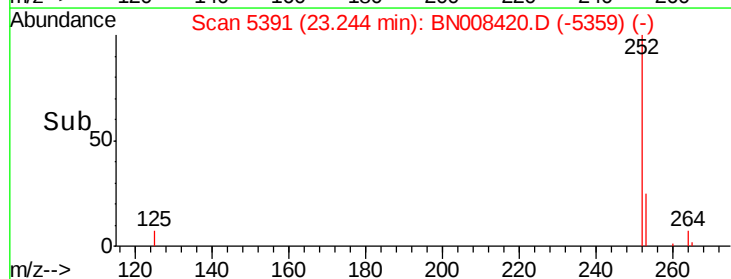
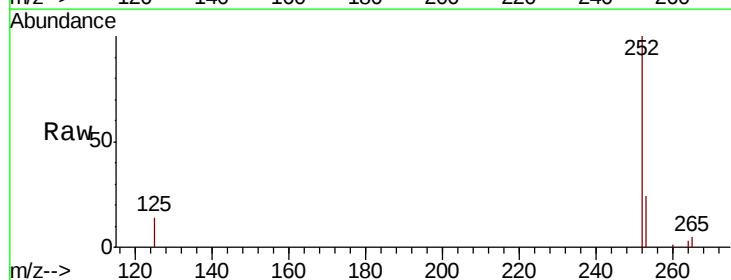
RT: 23.24 min Scan# 5391

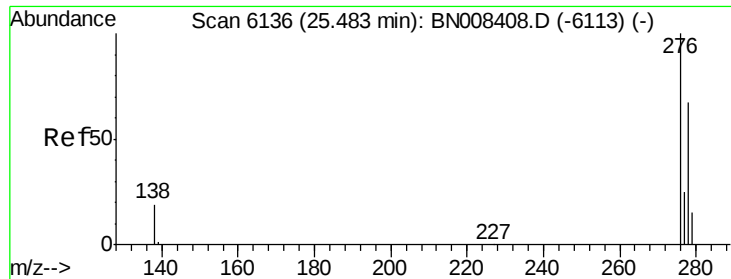
Delta R.T. -0.01 min

Lab File: BN008420.D

Acq: 25 Oct 2019 10:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 86366 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 22.8  | 34.2  |
| 125       | 14.2  | 18.4  | 27.6# |





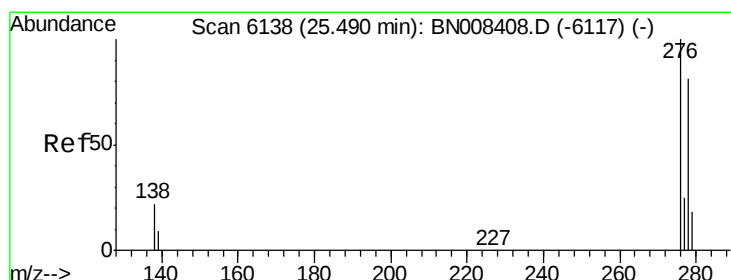
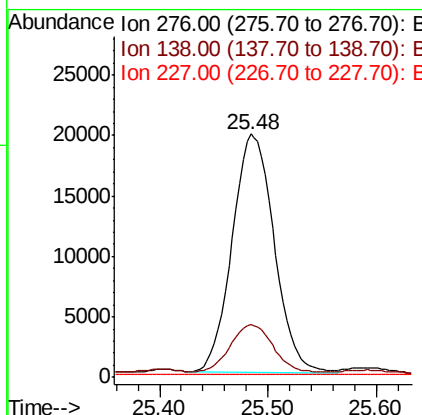
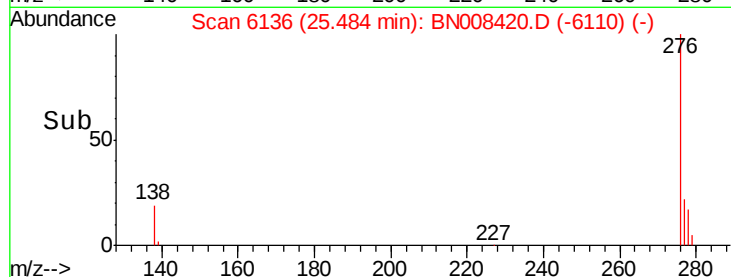
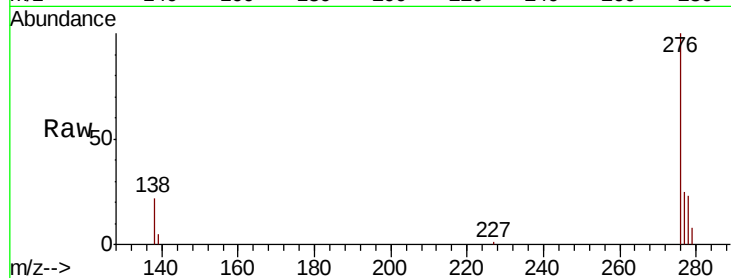
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 1.338 ng/ul  
RT: 25.48 min Scan# 6136  
Delta R.T. -0.01 min  
Lab File: BN008420.D  
Acq: 25 Oct 2019 10:29

Instrument :  
BNA\_N  
ClientSampleID :  
BEPMDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.1  | 16.1  | 24.1  |
| 227     | 0.2   | 0.2   | 0.2   |

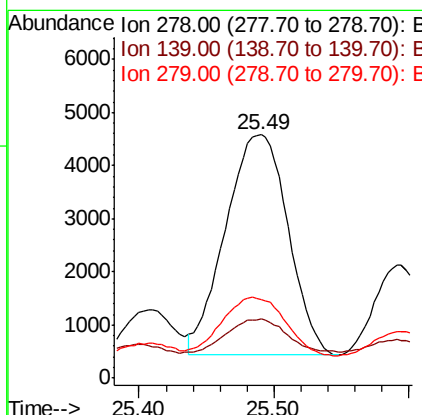
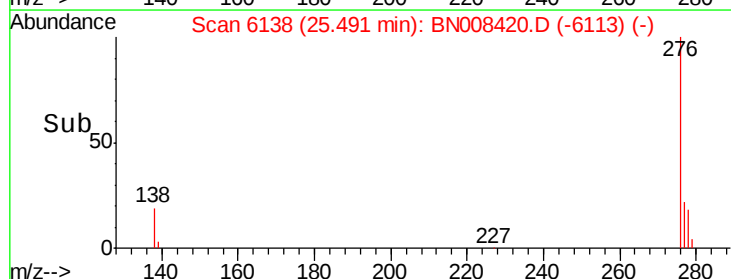
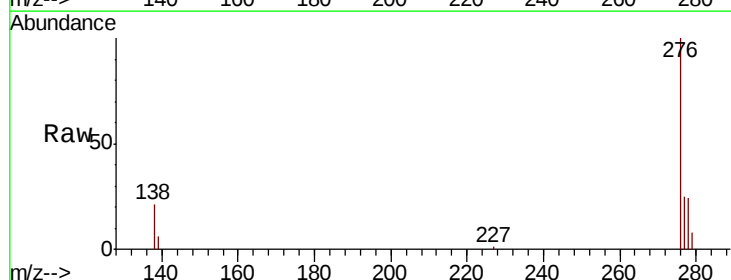
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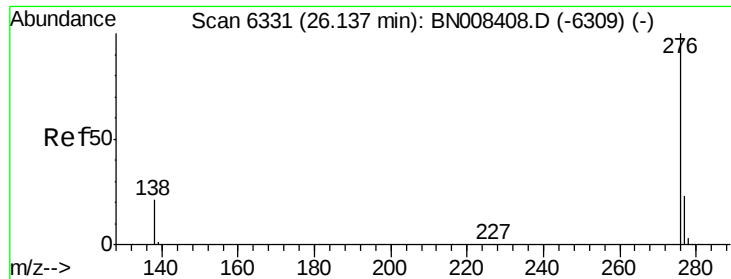
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.426 ng/ul  
RT: 25.49 min Scan# 6138  
Delta R.T. -0.02 min  
Lab File: BN008420.D  
Acq: 25 Oct 2019 10:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.2  | 15.0  | 22.6  |
| 279     | 32.5  | 22.4  | 33.6  |





#26  
 Benzo(a,h,i)perylene  
 Concen: 1.330 ng/ul  
 RT: 26.14 min Scan# 6332  
 Delta R.T. -0.01 min  
 Lab File: BN008420.D  
 Acq: 25 Oct 2019 10:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPM2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.2  | 17.0  | 25.4  |
| 277     | 25.0  | 20.4  | 30.6  |

Manual Integrations  
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