

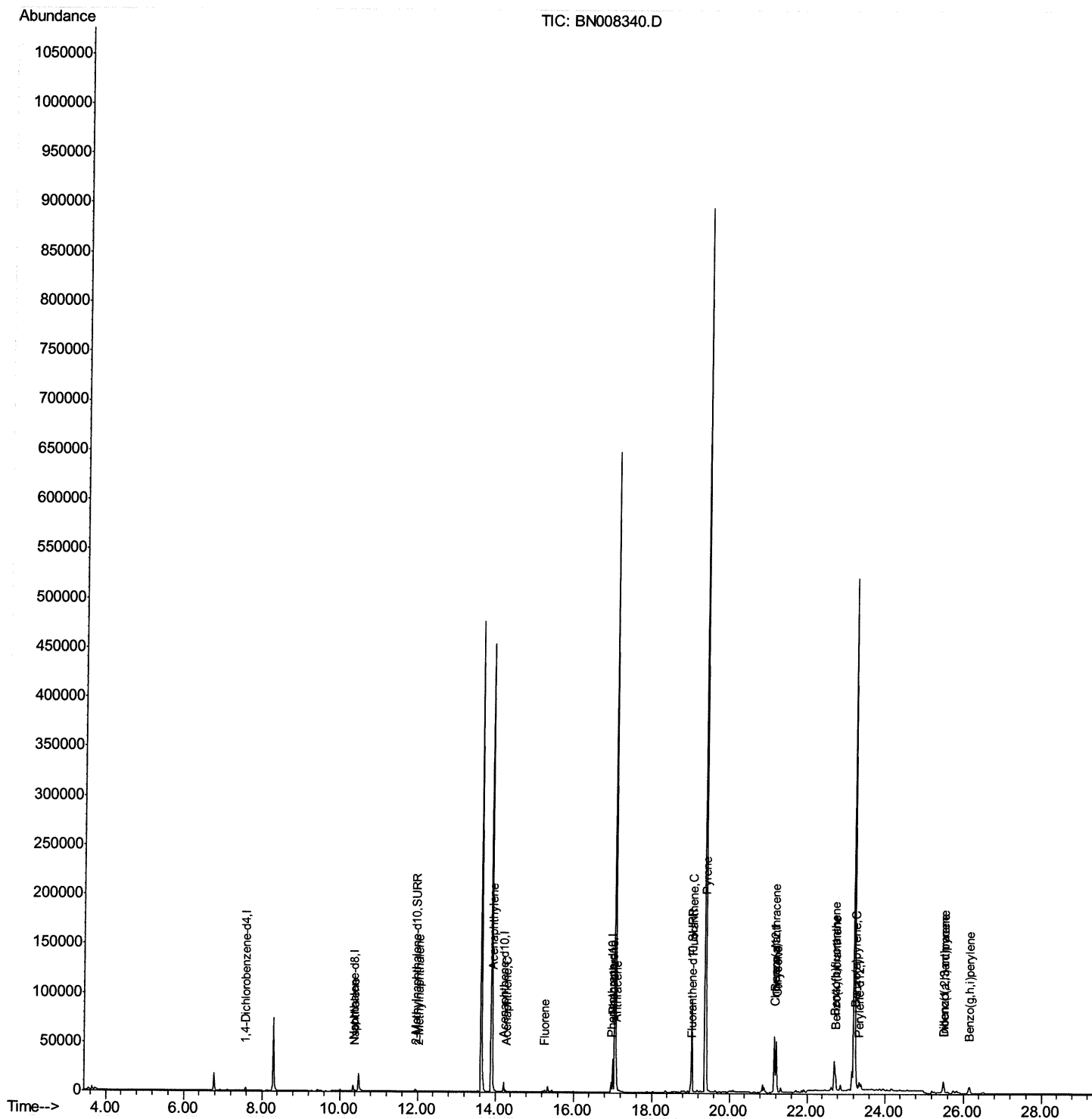
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\  
Data File : BN008340.D  
Acq On : 23 Oct 2019 06:55  
Operator : JU  
Sample : K5223-19  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEP47

Manual Integrations  
APPROVED

mohammad  
10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:49:34 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration



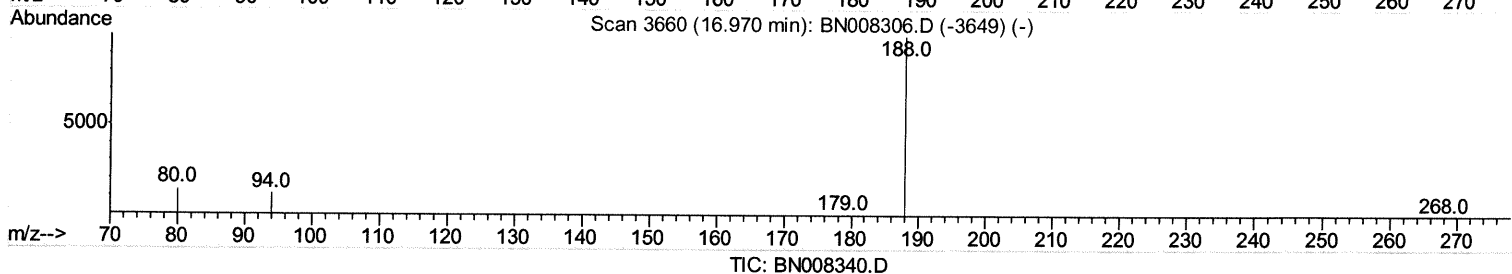
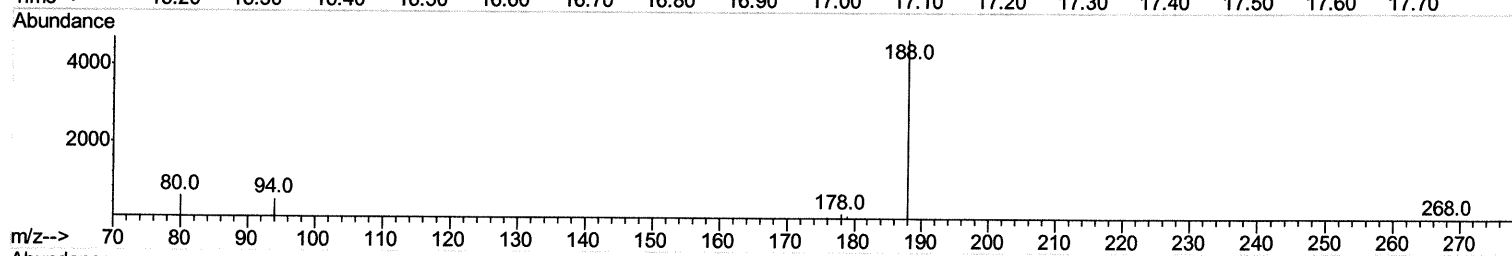
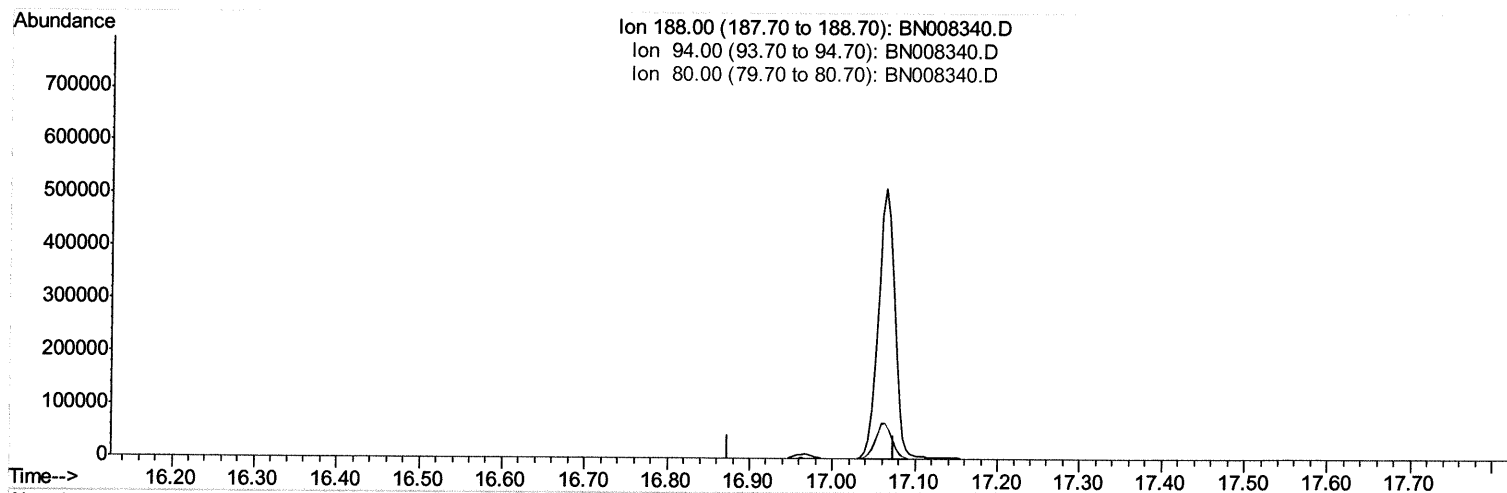
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Instrument :  
BNA\_N  
ClientSampleId :  
BEP7

Manual Integrations  
APPROVED

mohammad  
10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:47:05 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

16.975min (-16.975) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 0.00  |
| 94.00  | 10.90 | 0.00# |
| 80.00  | 12.60 | 0.00# |
| 0.00   | 0.00  | 0.00  |

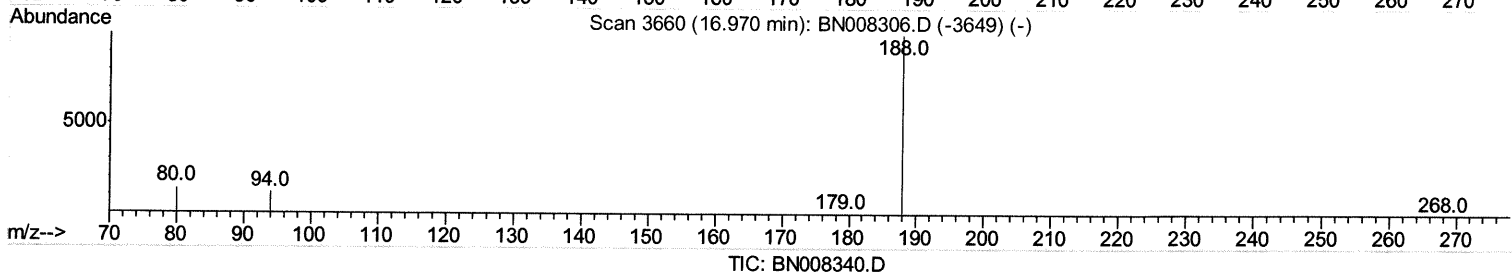
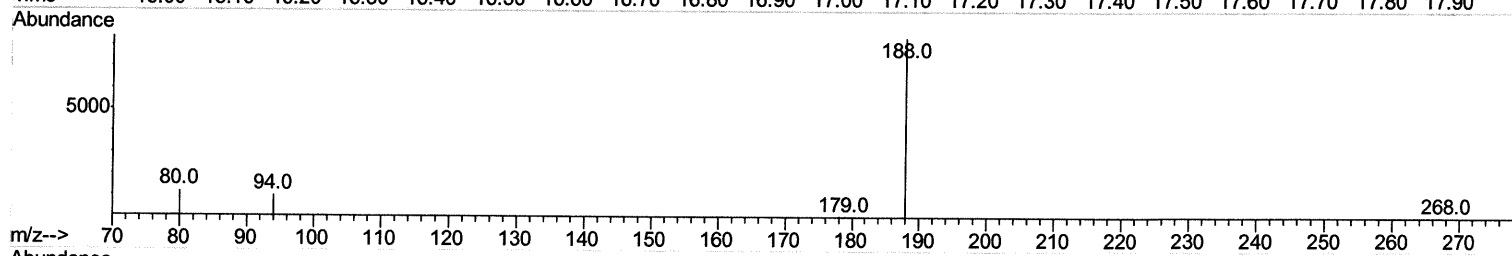
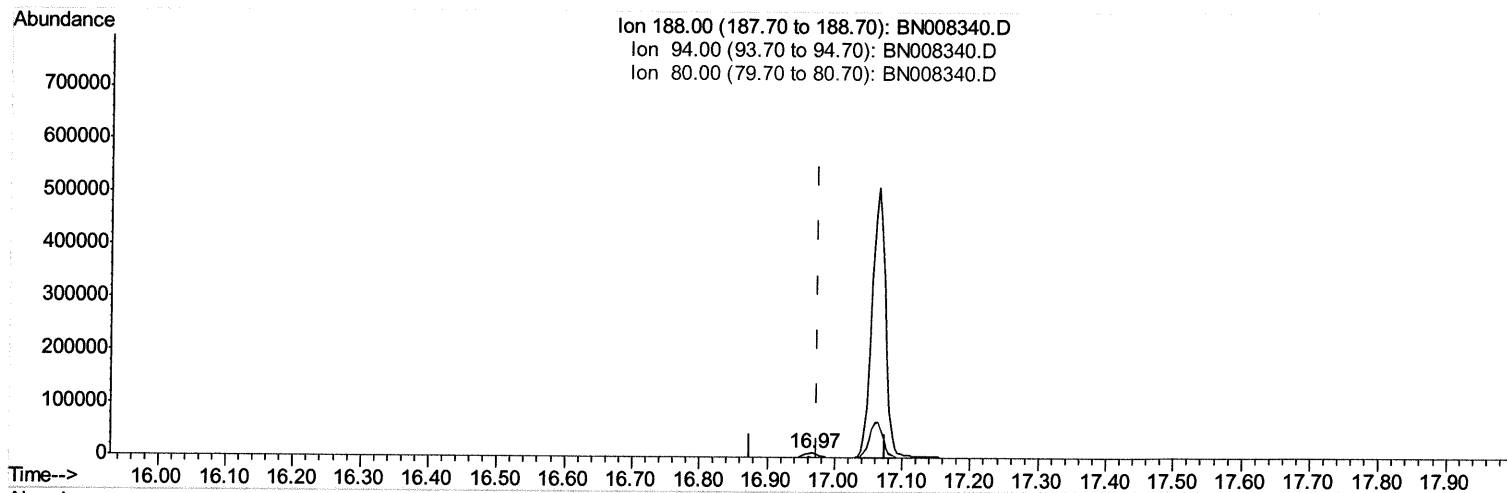
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\  
Data File : BN008340.D  
Acq On : 23 Oct 2019 06:55  
Operator : JU  
Sample : K5223-19  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEP7

Manual Integrations  
APPROVED

mohammad  
10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:47:05 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

16.967min (-0.008) 0.40ng/ul m *Mu 10.23.19*

response 11427

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 10.90 | 11.99 |
| 80.00  | 12.60 | 14.22 |
| 0.00   | 0.00  | 0.00  |

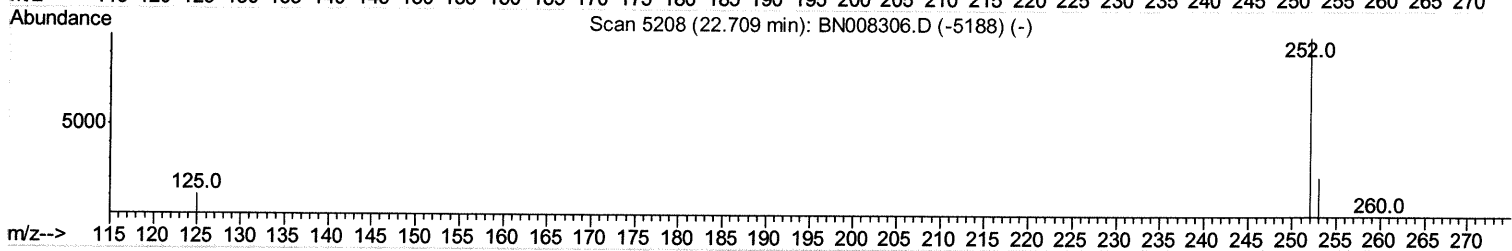
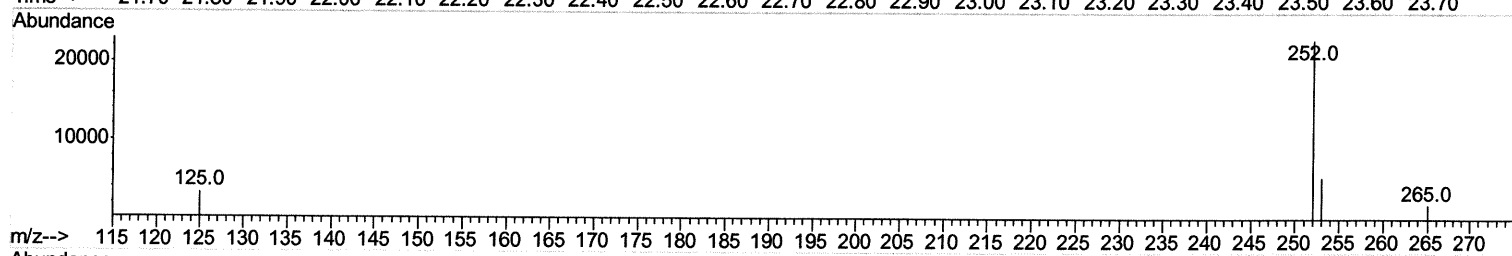
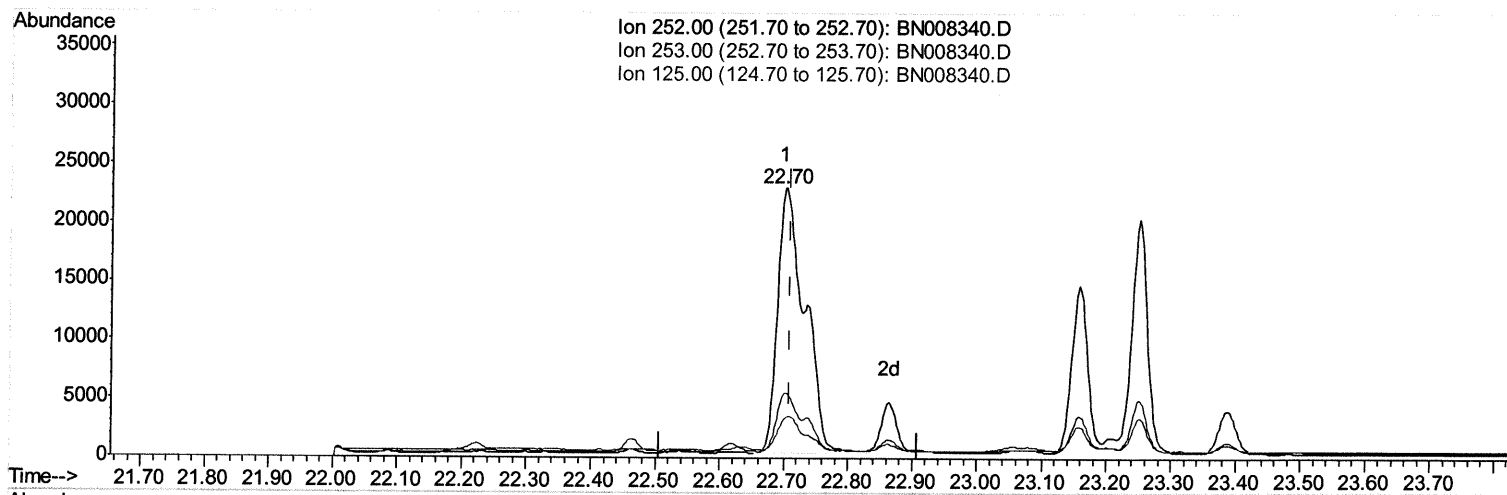
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\  
Data File : BN008340.D  
Acq On : 23 Oct 2019 06:55  
Operator : JU  
Sample : K5223-19  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEP A7

Manual Integrations  
APPROVED

mohammad  
10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:48:21 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration



TIC: BN008340.D

(21) Benzo(b)fluoranthene

22.700min (-0.008) 2.26ng/ul

response 66748

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.70 | 24.05 |
| 125.00 | 16.20 | 14.38 |
| 0.00   | 0.00  | 0.00  |

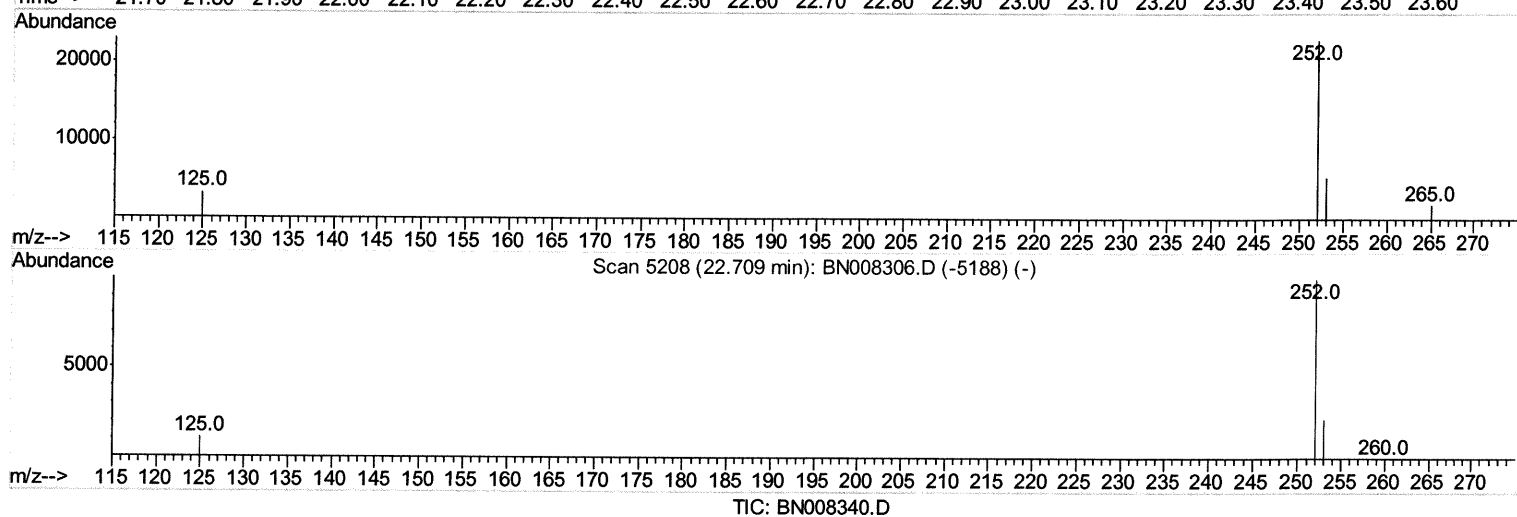
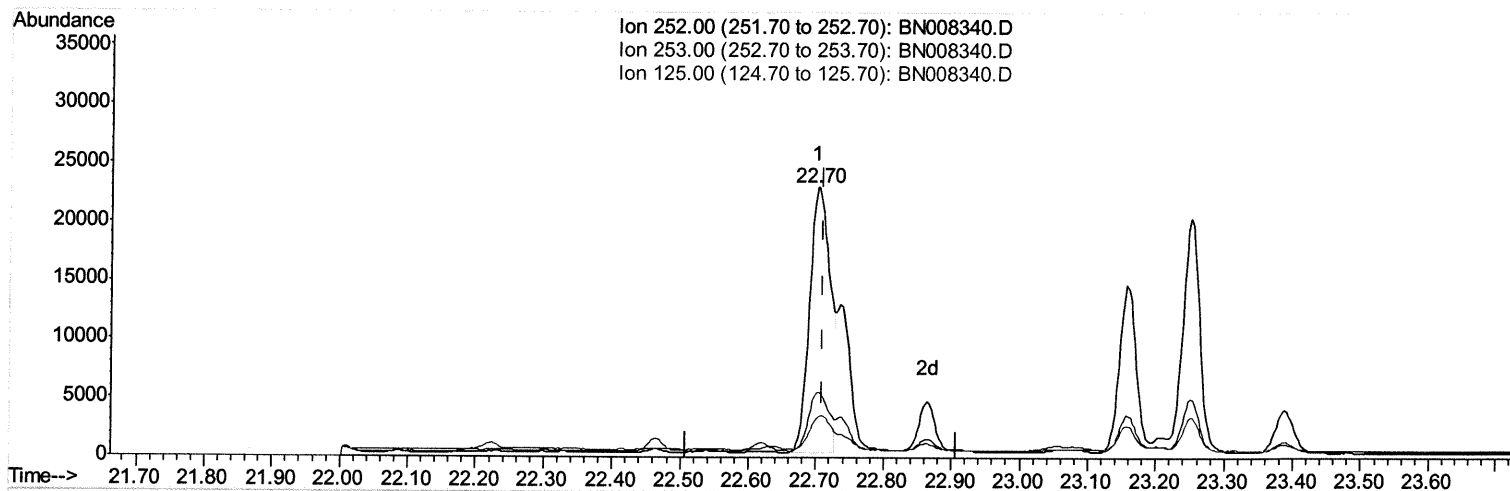
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\  
Data File : BN008340.D  
Acq On : 23 Oct 2019 06:55  
Operator : JU  
Sample : K5223-19  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BEP A7

Manual Integrations  
APPROVED

mohammad  
10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:48:21 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.700min (-0.008) 1.61ng/ul m

JU 10.23.19

response 47565

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.70 | 24.05 |
| 125.00 | 16.20 | 14.38 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\

Data File : BN008340.D

Acq On : 23 Oct 2019 06:55

Operator : JU

Sample : K5223-19

Misc :

ALS Vial : 34 Sample Multiplier: 1

Instrument :

BNA\_N

ClientSampleId :

BEP A7

Manual Integrations  
APPROVEDmohammad  
10/24/2019 8:06:13 AM

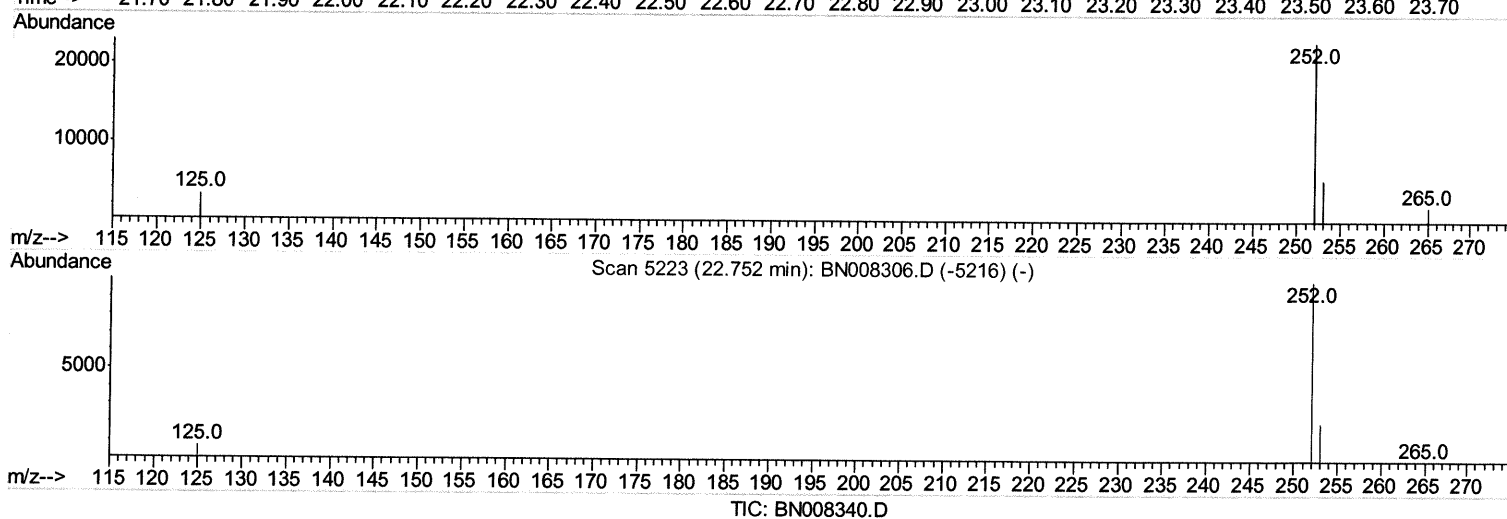
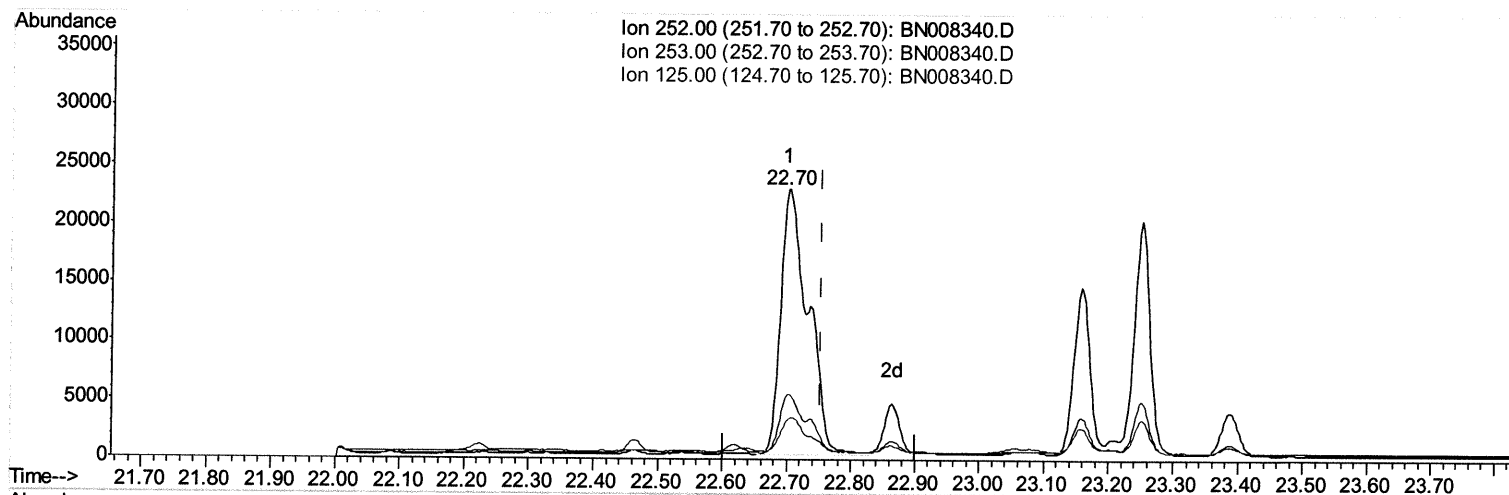
Quant Time: Oct 23 07:48:21 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Oct 21 23:58:15 2019

Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.700min (-0.052) 1.99ng/ul

response 66748

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.60 | 24.05 |
| 125.00 | 15.40 | 14.38 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\

Data File : BN008340.D

Acq On : 23 Oct 2019 06:55

Operator : JU

Sample : K5223-19

Misc :

ALS Vial : 34 Sample Multiplier: 1

Instrument :

BNA\_N

ClientSampleId :

BEP7

Manual Integrations  
APPROVEDmohammad  
10/24/2019 8:06:13 AM

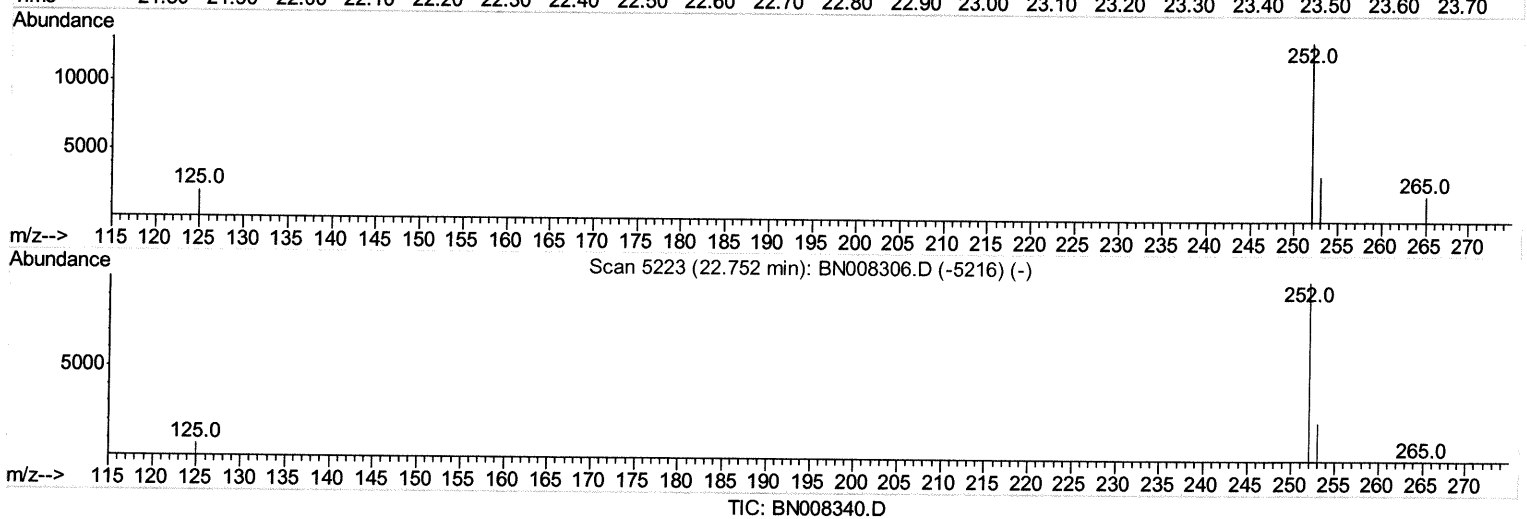
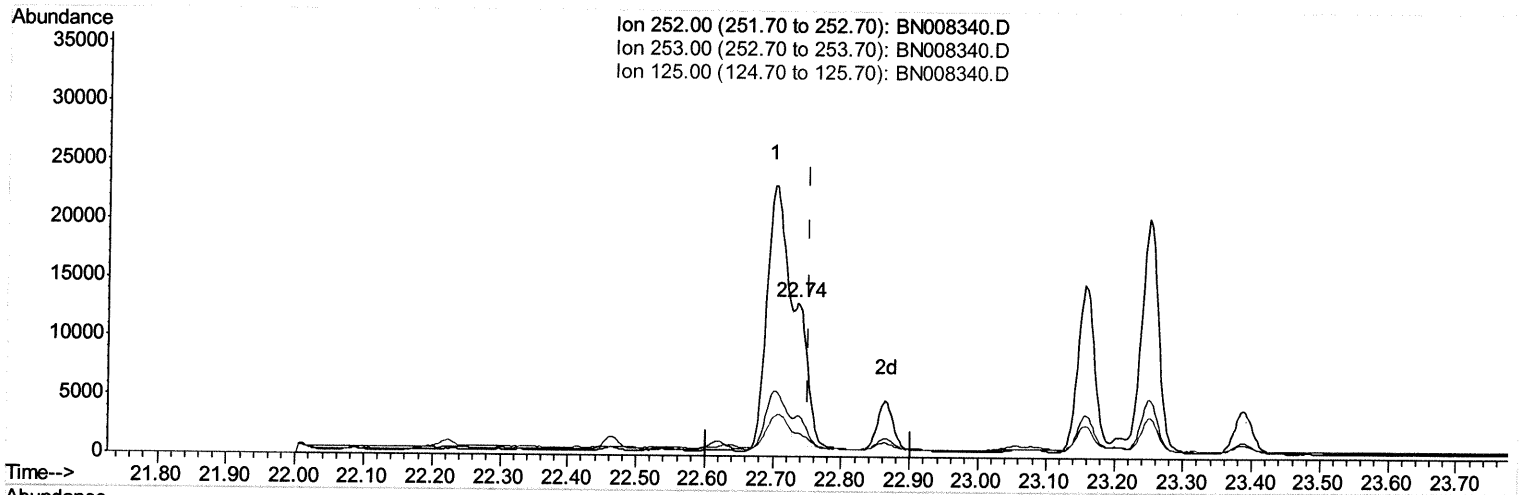
Quant Time: Oct 23 07:48:21 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Oct 21 23:58:15 2019

Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.736min (-0.017) 0.51ng/ul m

Ju 10.23.19

response 17211

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 26.60 | 26.10 |
| 125.00 | 15.40 | 15.49 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102219\  
 Data File : BN008340.D  
 Acq On : 23 Oct 2019 06:55  
 Operator : JU  
 Sample : K5223-19  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPA7

Manual Integrations  
 APPROVED

mohammad  
 10/24/2019 8:06:13 AM

Quant Time: Oct 23 07:49:34 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 : Mon Oct 21 23:58:15 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev (Min) |
|---------------------------|-------|------|----------|------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 1779     | 0.40 | ng/ul | -0.01     |
| 2) Naphthalene-d8         | 10.35 | 136  | 8546     | 0.40 | ng/ul | -0.01     |
| 6) Acenaphthene-d10       | 14.22 | 164  | 5253     | 0.40 | ng/ul | 0.00      |
| 10) Phenanthrene-d10      | 16.97 | 188  | 11427m   | 0.40 | ng/ul | 0.00      |
| 16) Chrysene-d12          | 21.17 | 240  | 10710    | 0.40 | ng/ul | 0.00      |
| 20) Perylene-d12          | 23.34 | 264  | 9085     | 0.40 | ng/ul | -0.01     |

#### System Monitoring Compounds

|                            |       |     |       |      |       |       |
|----------------------------|-------|-----|-------|------|-------|-------|
| 4) 2-Methylnaphthalene-d10 | 11.95 | 152 | 3546  | 0.25 | ng/ul | -0.01 |
| 14) Fluoranthene-d10       | 19.00 | 212 | 10617 | 0.27 | ng/ul | -0.01 |

#### Target Compounds

|                            |       |     |        |       |        | Ovalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 3) Naphthalene             | 10.39 | 128 | 1113   | 0.046 | ng/ul# | 83     |
| 5) 2-Methylnaphthalene     | 12.02 | 142 | 576    | 0.035 | ng/ul  | 97     |
| 7) Acenaphthylene          | 13.93 | 152 | 3493   | 0.140 | ng/ul  | 94     |
| 8) Acenaphthene            | 14.28 | 153 | 1112   | 0.057 | ng/ul  | 98     |
| 9) Fluorene                | 15.27 | 166 | 1454   | 0.066 | ng/ul# | 95     |
| 12) Phenanthrene           | 17.00 | 178 | 35757  | 1.069 | ng/ul  | 99     |
| 13) Anthracene             | 17.10 | 178 | 6647   | 0.226 | ng/ul  | 99     |
| 15) Fluoranthene           | 19.03 | 202 | 78470  | 1.776 | ng/ul  | 99     |
| 17) Pyrene                 | 19.40 | 202 | 85008  | 1.993 | ng/ul  | 98     |
| 18) Benzo(a)anthracene     | 21.15 | 228 | 49150  | 1.262 | ng/ul  | 97     |
| 19) Chrysene               | 21.21 | 228 | 53278  | 1.115 | ng/ul  | 99     |
| 21) Benzo(b)fluoranthene   | 22.70 | 252 | 47565m | 1.608 | ng/ul  | 97     |
| 22) Benzo(k)fluoranthene   | 22.74 | 252 | 17211m | 0.514 | ng/ul  | 97     |
| 23) Benzo(a)pyrene         | 23.25 | 252 | 34229  | 1.100 | ng/ul# | 90     |
| 24) Indeno(1,2,3-cd)pyrene | 25.49 | 276 | 17687  | 0.483 | ng/ul# | 90     |
| 25) Dibenzo(a,h)anthracene | 25.50 | 278 | 4867   | 0.168 | ng/ul# | 85     |
| 26) Benzo(a,h,i)perylene   | 26.15 | 276 | 14563  | 0.433 | ng/ul  | 97     |

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