

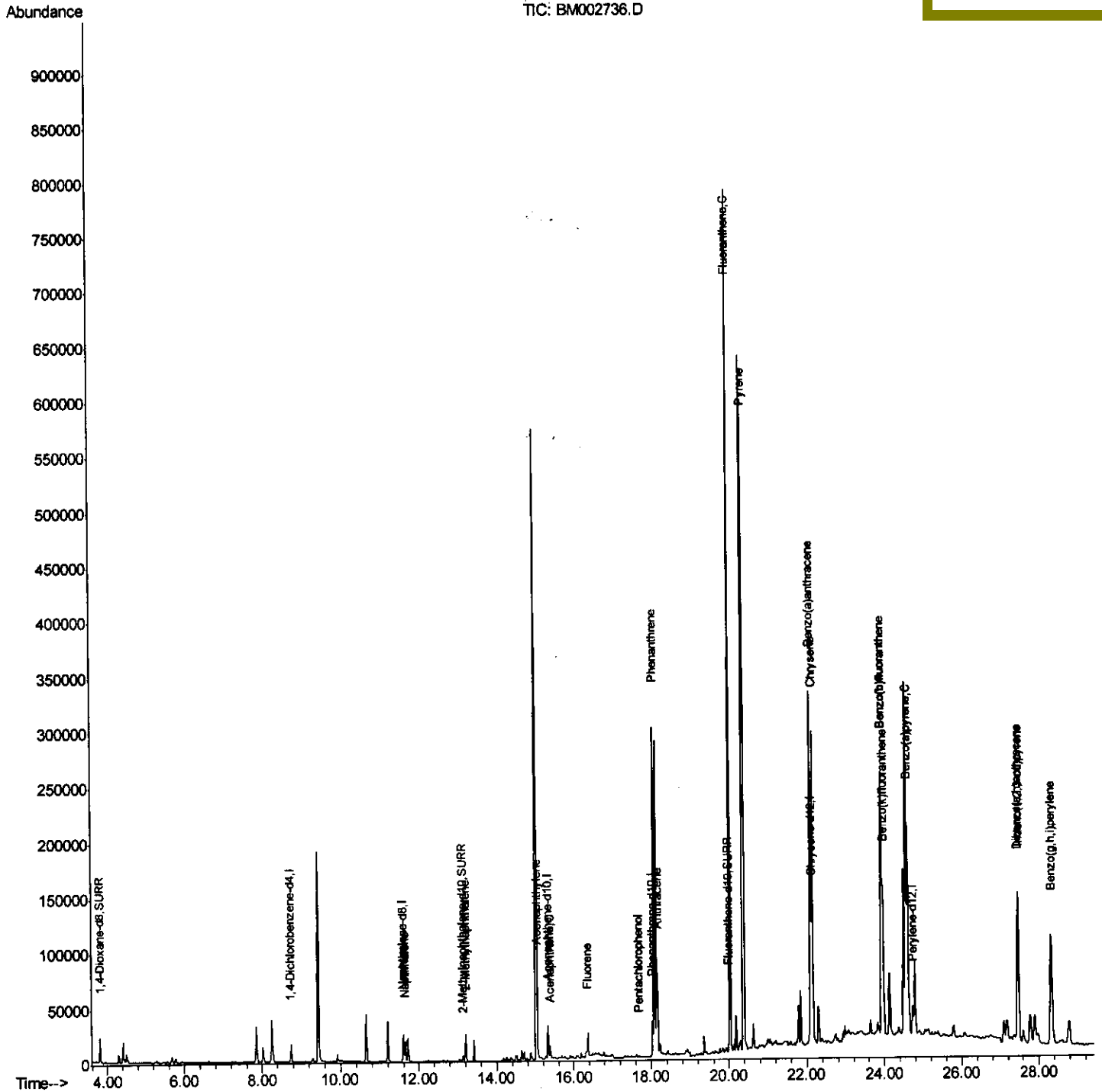
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
Data File : BM002736.D  
Acq On : 28 Sep 2015 16:38  
Operator : UM/IZ  
Sample : G3798-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9G72

Quant Time: Sep 29 04:46:35 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 29 00:32:23 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

MMDadoda  
9/29/2015 3:42:42 PM



# Quantitation Report (Qedit)

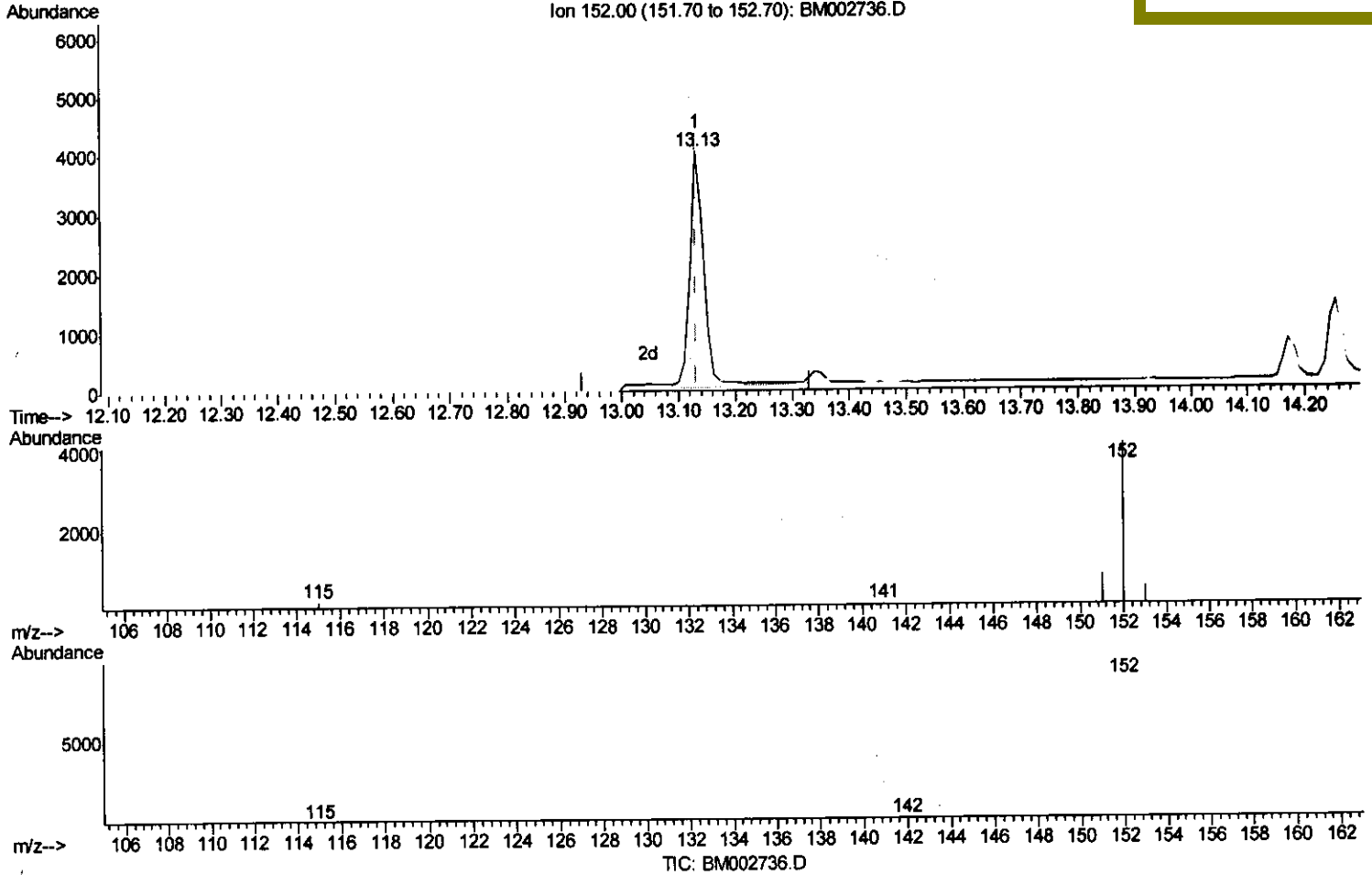
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 01:50:18 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
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Manual Integrations  
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(6) 2-Methylnaphthalene-d10 (SURR)

13.131min (-0.000) 0.12ng/ul

response 6992

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 152.00 | 100   | 100    |
| 151.00 | 18.90 | 29.38# |
| 0.00   | 0.00  | 0.00   |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

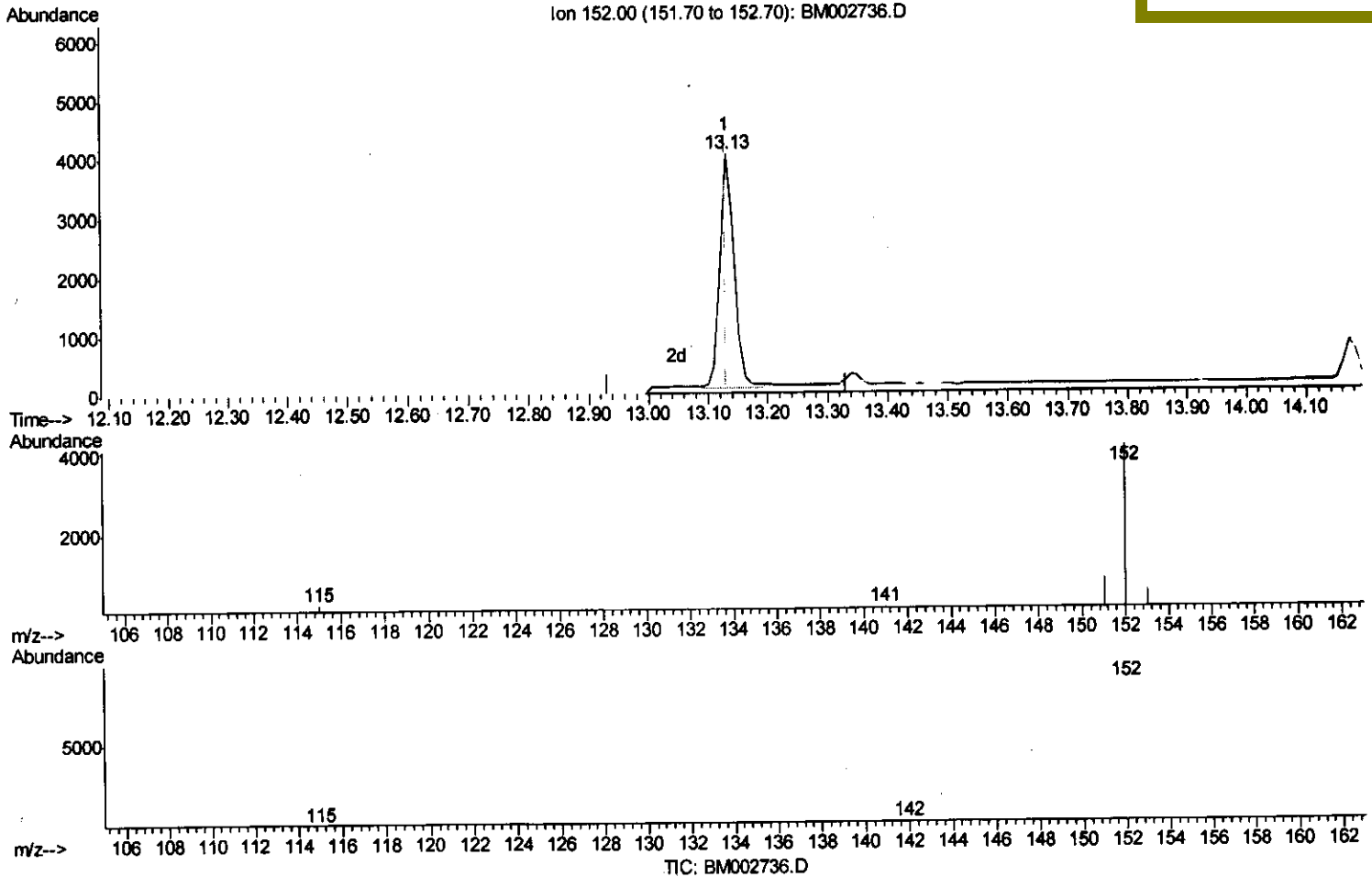
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 01:50:18 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2015 3:42:42 PM



(6) 2-Methylnaphthalene-d10 (SURR)

13.131min (-0.000) 0.12ng/ul m

response 6581

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 152.00 | 100   | 100    |
| 151.00 | 18.90 | 31.21# |
| 0.00   | 0.00  | 0.00   |
| 0.00   | 0.00  | 0.00   |

*Handwritten:* 0.12 m  
09/30/15

# Quantitation Report (Qedit)

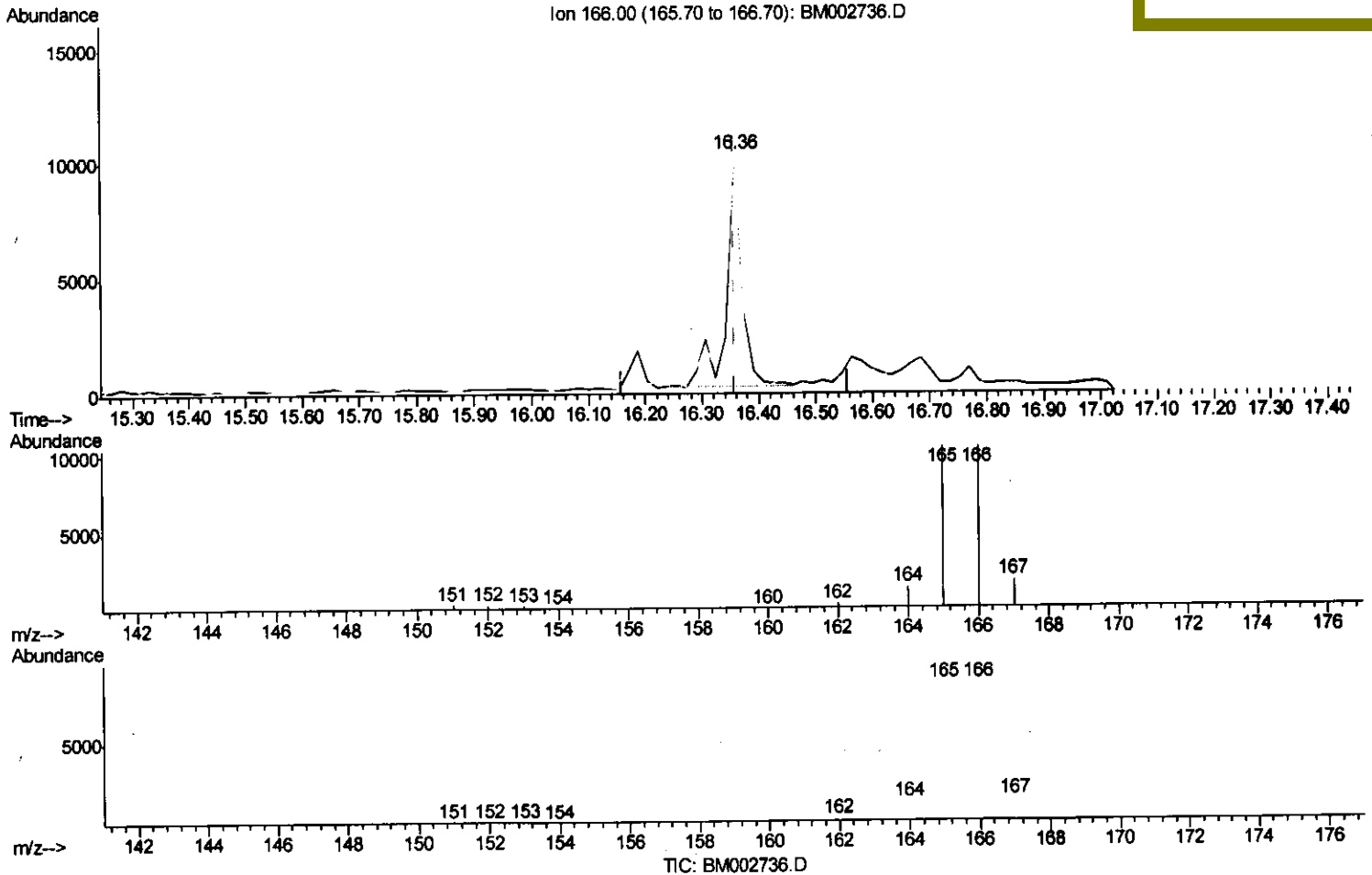
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 01:50:18 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2015 3:42:42 PM



(11) Fluorene

16.358min (-0.000) 0.22ng/ul

response 19694

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 166.00 | 100    | 100    |
| 165.00 | 109.50 | 99.92  |
| 167.00 | 13.90  | 18.57# |
| 0.00   | 0.00   | 0.00   |

## Quantitation Report (Qedit)

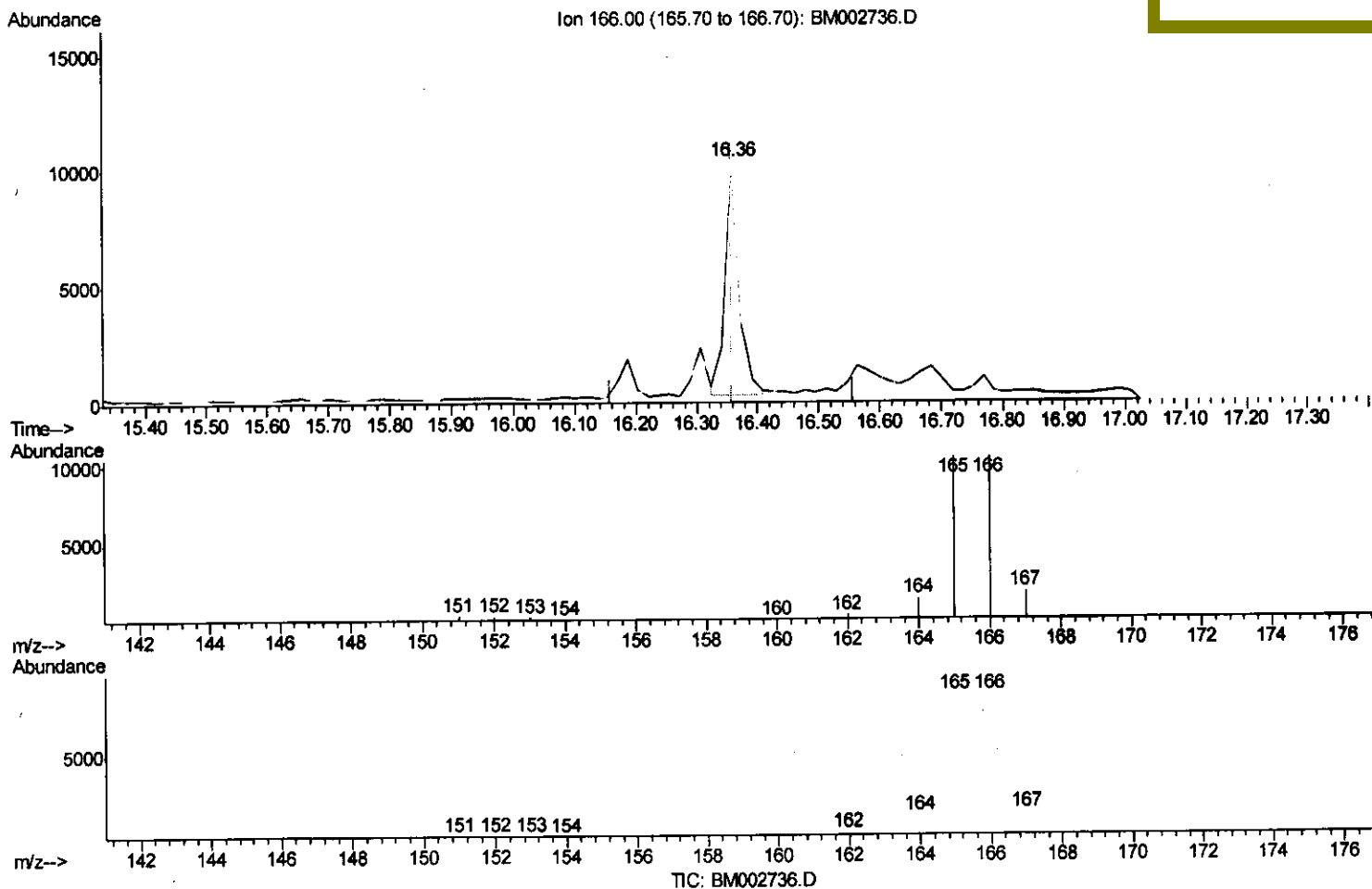
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
Data File : BM002736.D  
Acq On : 28 Sep 2015 16:38  
Operator : UM/IZ  
Sample : G3798-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9G72

Quant Time: Sep 29 01:50:18 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 29 00:32:23 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

MMDadoda  
9/29/2015 3:42:42 PM



(11) Fluorene

16.358min (-0.000) 0.18ng/ul m

response 16352

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 166.00 | 100    | 100    |
| 165.00 | 109.50 | 99.92  |
| 167.00 | 13.90  | 18.57# |
| 0.00   | 0.00   | 0.00   |

> U.M  
09/30/15

## Quantitation Report (Qedit)

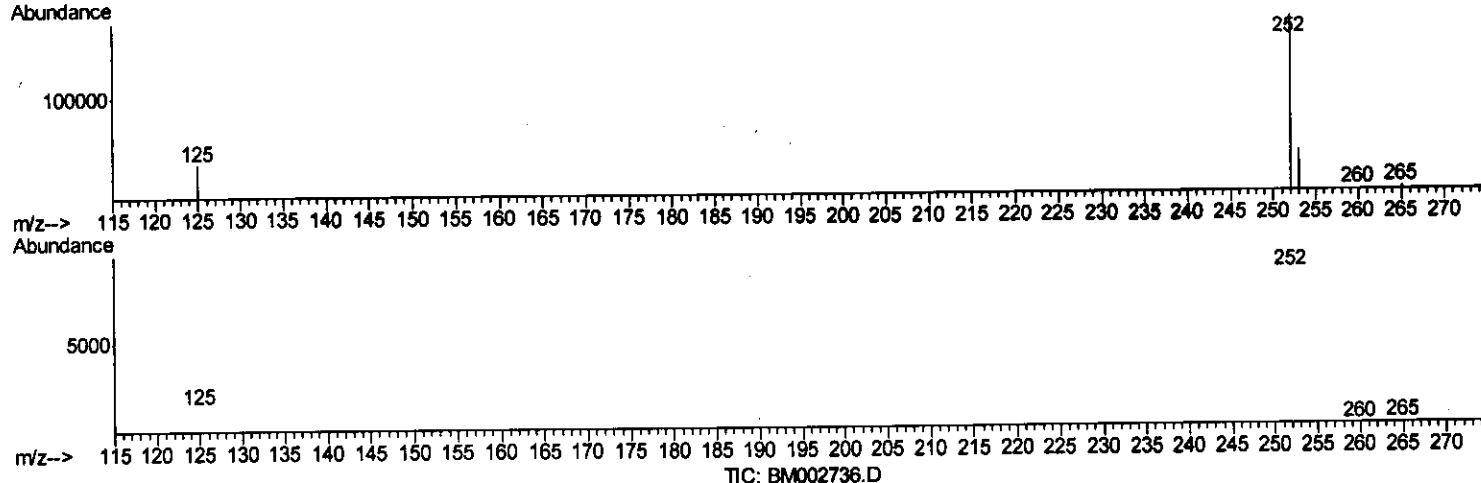
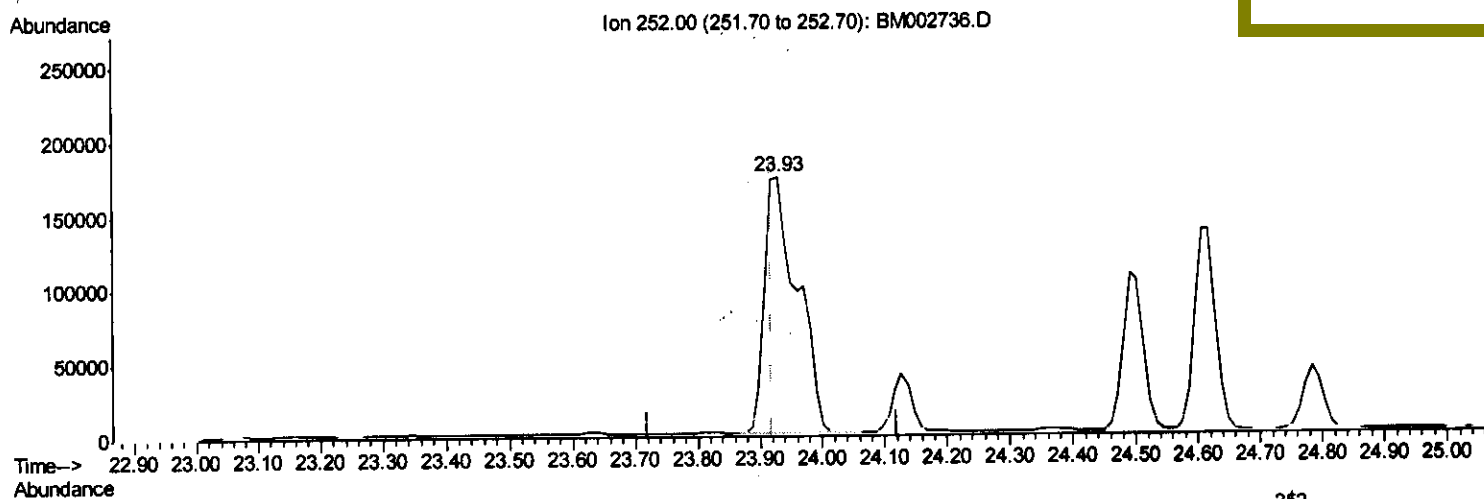
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
Data File : BM002736.D  
Acq On : 28 Sep 2015 16:38  
Operator : UM/IZ  
Sample : G3798-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9G72

Quant Time: Sep 29 00:34:18 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 29 00:32:23 2015  
Response via : Initial Calibration

Manual Integrations  
APPROVED

MMDadoda  
9/29/2015 3:42:42 PM



(23) Benzo(b)fluoranthene

23.929min (+0.010) 4.38ng/ul

response 636008

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 24.00 | 24.10 |
| 125.00 | 18.30 | 19.71 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

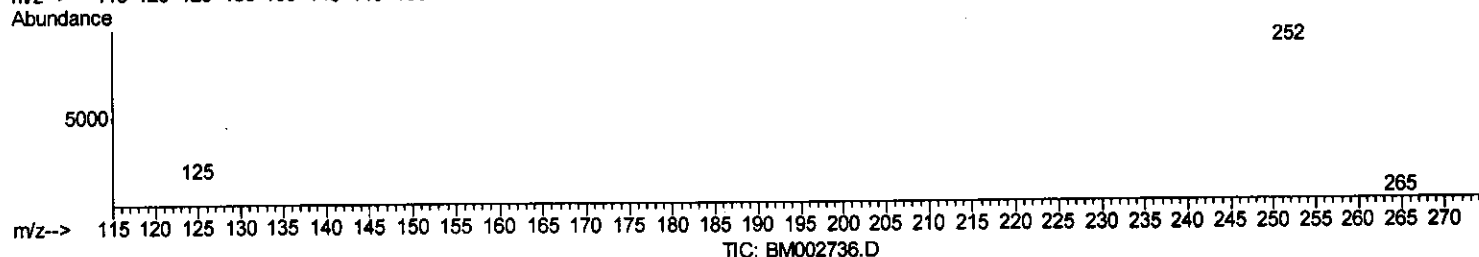
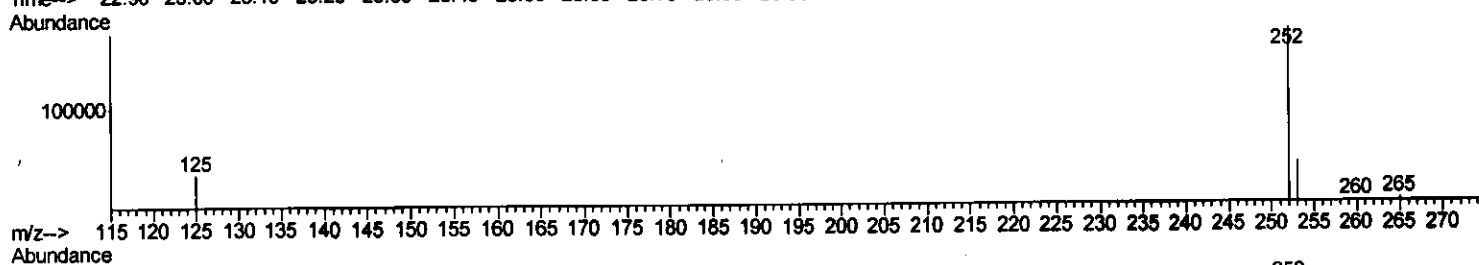
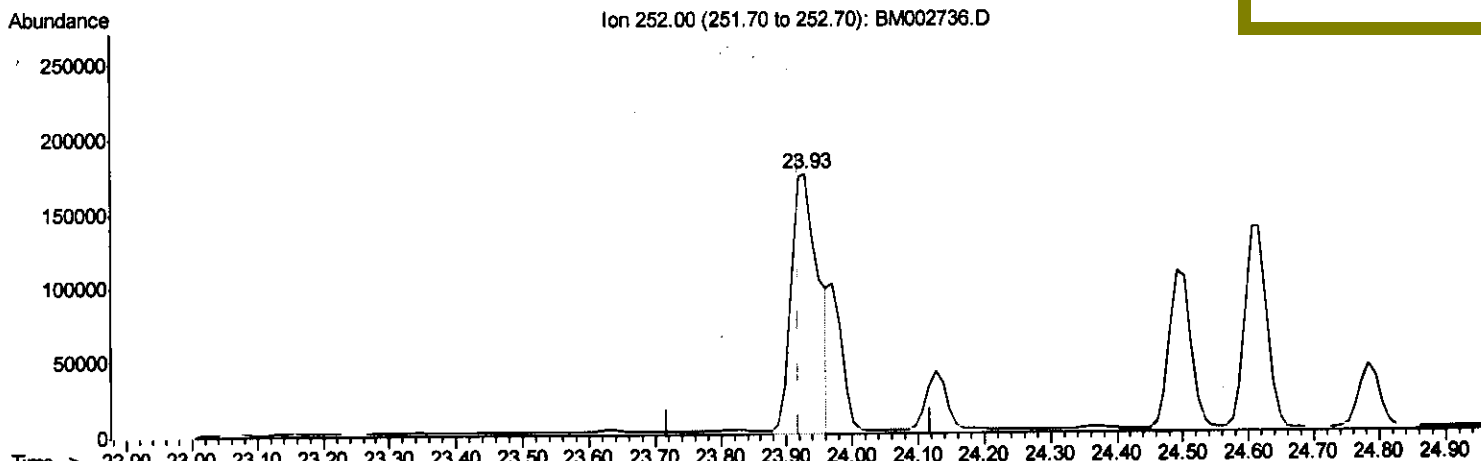
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 04:38:40 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2015 3:42:42 PM



(23) Benzo(b)fluoranthene

23.929min (+0.010) 3.57ng/ul m

response 517111

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 24.00 | 24.10 |
| 125.00 | 18.30 | 19.71 |
| 0.00   | 0.00  | 0.00  |

> U.M  
 09/30/15

# Quantitation Report (Qedit)

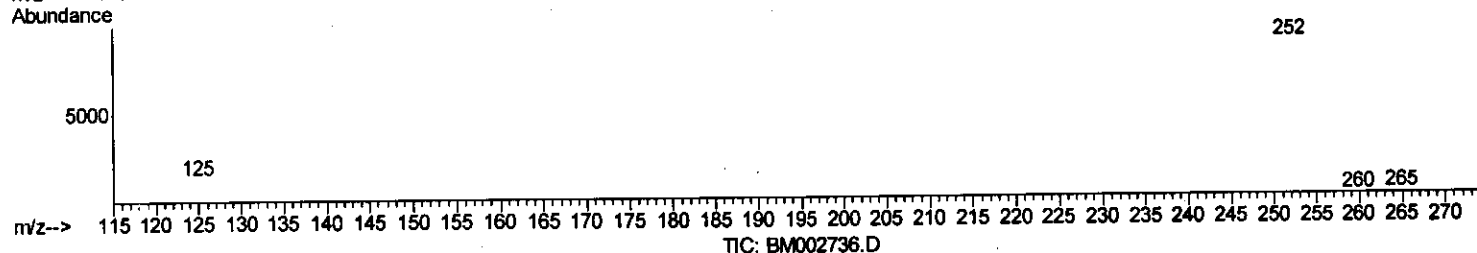
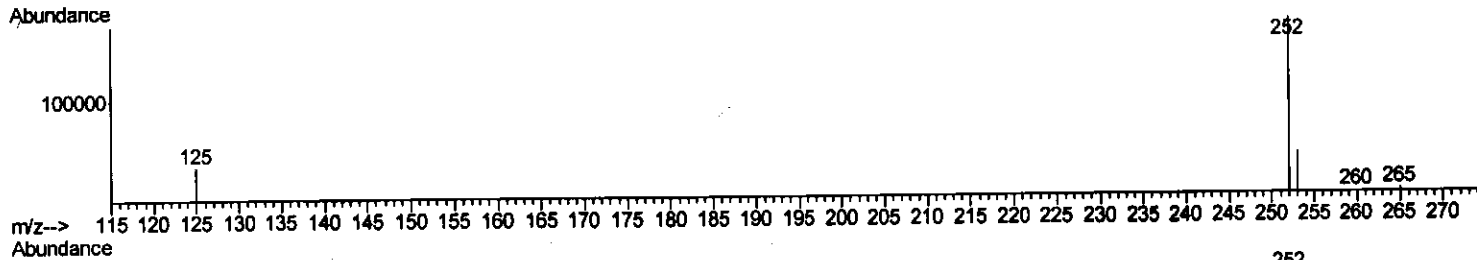
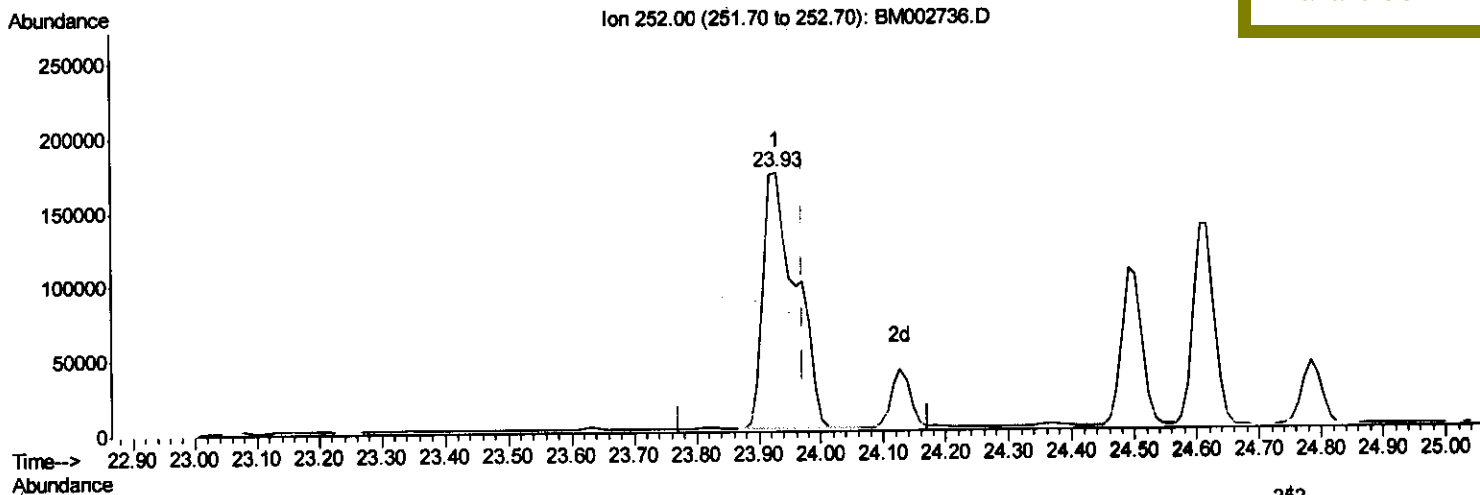
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 00:34:18 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2015 3:42:42 PM



(24) Benzo(k)fluoranthene

23.929min (-0.042) 4.73ng/ul

response 636008

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.00 | 24.10  |
| 125.00 | 15.30 | 19.71# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

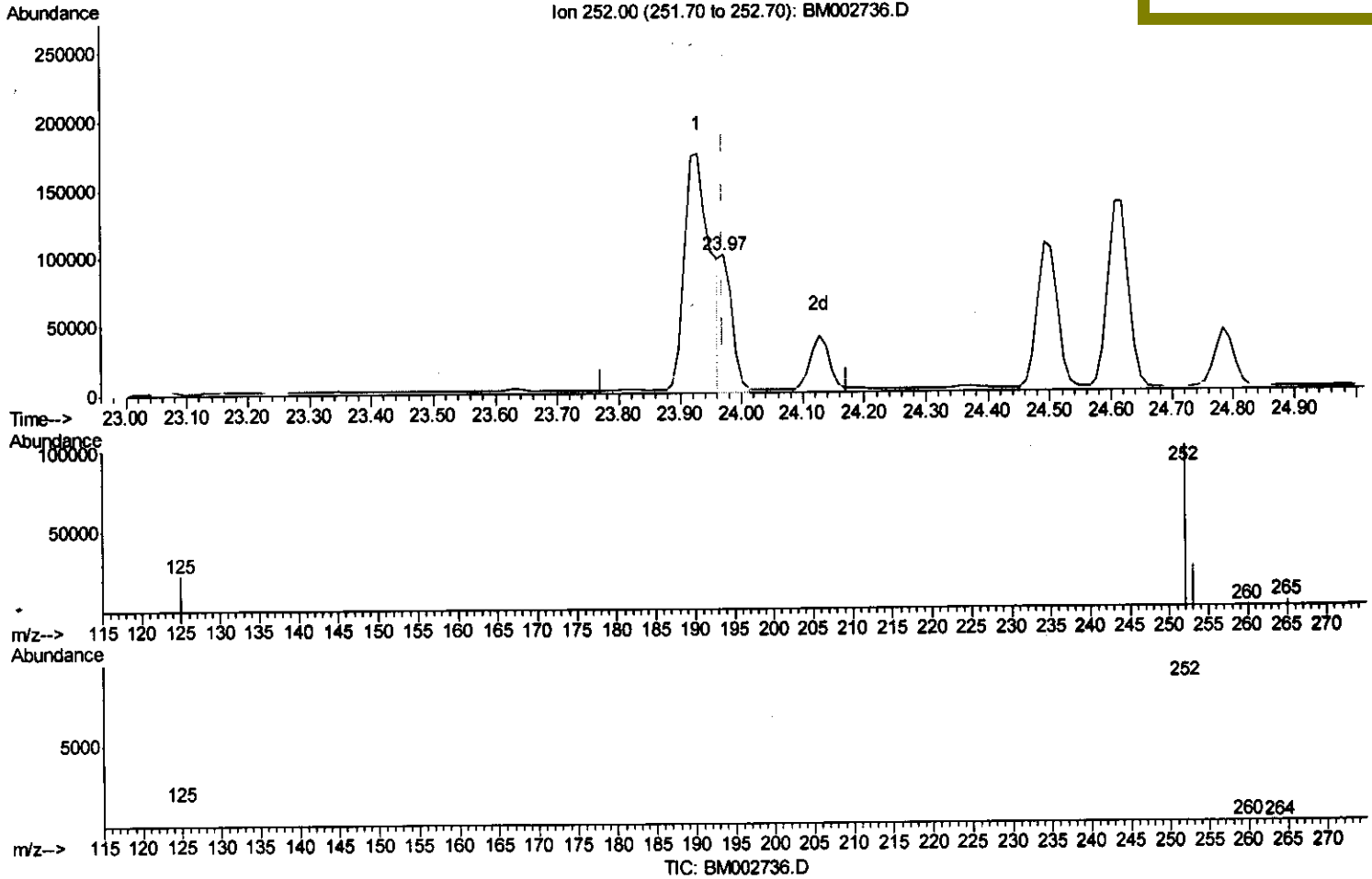
Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 04:38:40 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 9/29/2015 3:42:42 PM



(24) Benzo(k)fluoranthene

23.971min (-0.000) 1.00ng/ul m

response 134104

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 26.00 | 25.90  |
| 125.00 | 15.30 | 22.72# |
| 0.00   | 0.00  | 0.00   |

U.M  
 09/30/15

Data Path : Z:\HPCHEM1\BNA M\Data\BM092815\  
 Data File : BM002736.D  
 Acq On : 28 Sep 2015 16:38  
 Operator : UM/IZ  
 Sample : G3798-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9G72

Quant Time: Sep 29 04:46:35 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM092415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 00:32:23 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

MMDadoda  
 9/29/2015 3:42:42 PM

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.74  | 152  | 9875     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 11.60 | 136  | 38929    | 0.40 | ng/ul | 0.01     |
| 8) Acenaphthene-d10       | 15.33 | 164  | 21165    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.03 | 188  | 43767    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 22.13 | 240  | 41115    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.73 | 264  | 40233    | 0.40 | ng/ul | 0.01     |

## System Monitoring Compounds

|                            |       |     |       |      |       |      |
|----------------------------|-------|-----|-------|------|-------|------|
| 2) 1,4-Dioxane-d8          | 3.80  | 96  | 19815 | 1.94 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 13.13 | 152 | 6581m | 0.12 | ng/ul | 0.00 |
| 16) Fluoranthene-d10       | 20.01 | 212 | 11396 | 0.10 | ng/ul | 0.01 |

## Target Compounds

|                            |       |     |         |      |        | Ovalue |
|----------------------------|-------|-----|---------|------|--------|--------|
| 5) Naphthalene             | 11.65 | 128 | 28300   | 0.27 | ng/ul  | 99     |
| 7) 2-Methylnaphthalene     | 13.20 | 142 | 19430   | 0.29 | ng/ul  | 99     |
| 9) Acenaphthylene          | 15.06 | 152 | 68079   | 0.62 | ng/ul  | 96     |
| 10) Acenaphthene           | 15.38 | 153 | 7671    | 0.10 | ng/ul  | 98     |
| 11) Fluorene               | 16.36 | 166 | 16352m  | 0.18 | ng/ul  |        |
| 13) Pentachlorophenol      | 17.69 | 266 | 745     | 0.09 | ng/ul  | 93     |
| 14) Phenanthrene           | 18.08 | 178 | 331451  | 2.33 | ng/ul  | 97     |
| 15) Anthracene             | 18.17 | 178 | 96759   | 0.74 | ng/ul  | 95     |
| 17) Fluoranthene           | 20.03 | 202 | 729064  | 4.71 | ng/ul  | 97     |
| 19) Pyrene                 | 20.40 | 202 | 614081  | 3.83 | ng/ul# | 92     |
| 20) Benzo(a)anthracene     | 22.10 | 228 | 333873  | 2.43 | ng/ul  | 94     |
| 21) Chrysene               | 22.16 | 228 | 324708  | 2.47 | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 23.93 | 252 | 517111m | 3.57 | ng/ul  |        |
| 24) Benzo(k)fluoranthene   | 23.97 | 252 | 134104m | 1.00 | ng/ul  |        |
| 25) Benzo(a)pyrene         | 24.61 | 252 | 320046  | 2.40 | ng/ul# | 92     |
| 26) Indeno(1,2,3-cd)pyrene | 27.47 | 276 | 254056  | 1.71 | ng/ul  | 94     |
| 27) Dibenzo(a,h)anthracene | 27.46 | 278 | 64500   | 0.53 | ng/ul# | 78     |
| 28) Benzo(g,h,i)perylene   | 28.33 | 276 | 234566  | 1.86 | ng/ul  | 98     |

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