

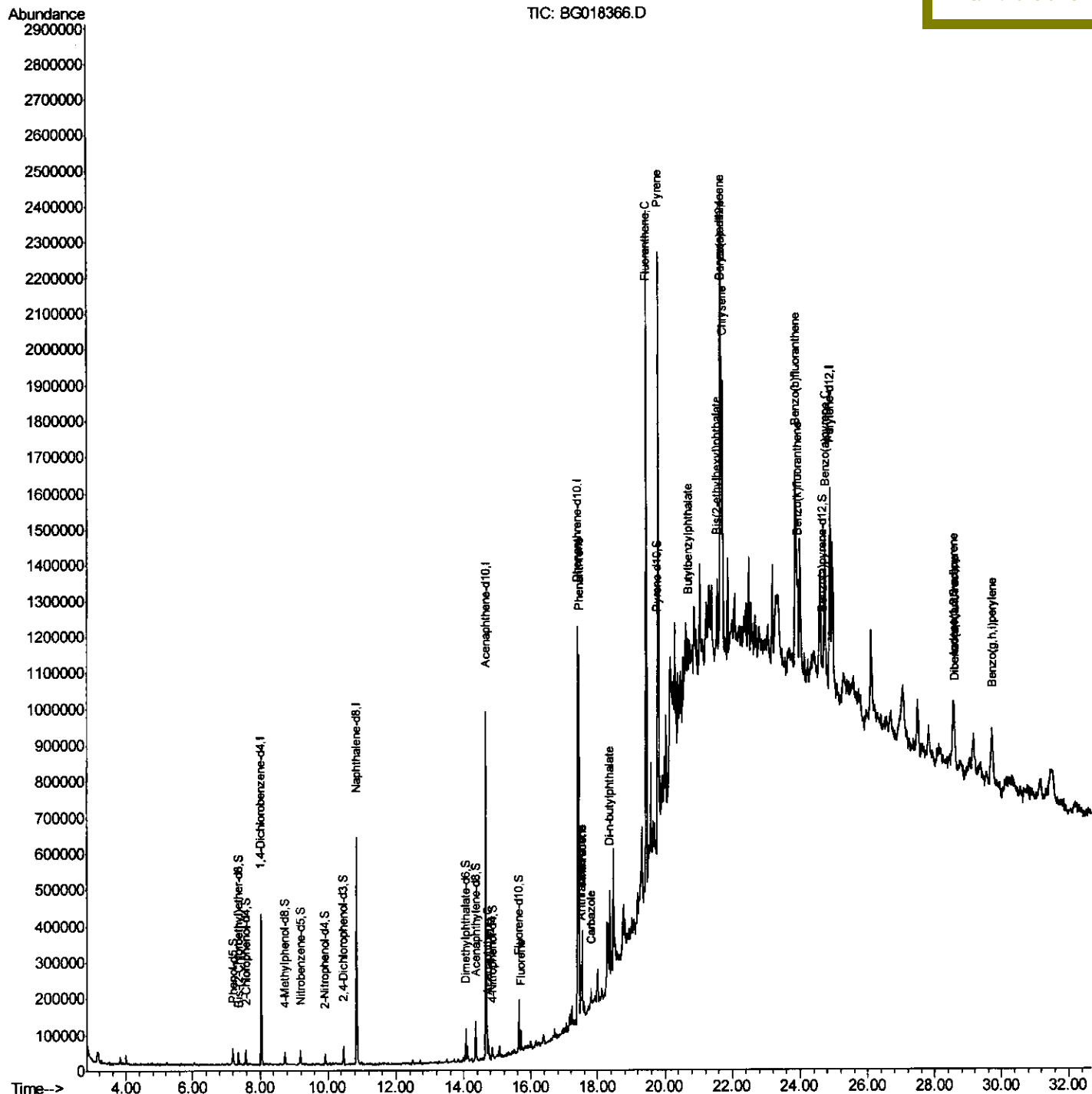
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
Data File : BG018366.D  
Acq On : 10 Aug 2015 22:50  
Operator : UM/MA  
Sample : G3109-04DL 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
C01P5DL

Quant Time: Aug 11 03:56:25 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 11 01:39:57 2015  
Response via : Initial Calibration

## Manual Integrations APPROVED

apatel  
8/11/2015 9:13:19 AM



# Quantitation Report (Qedit)

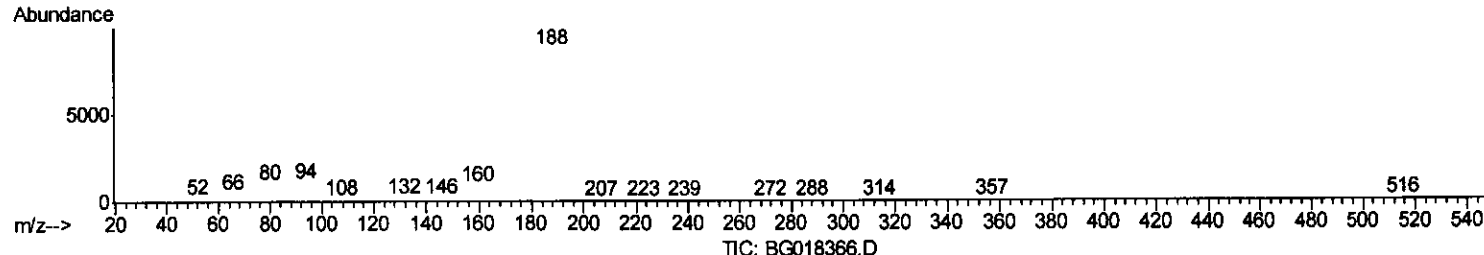
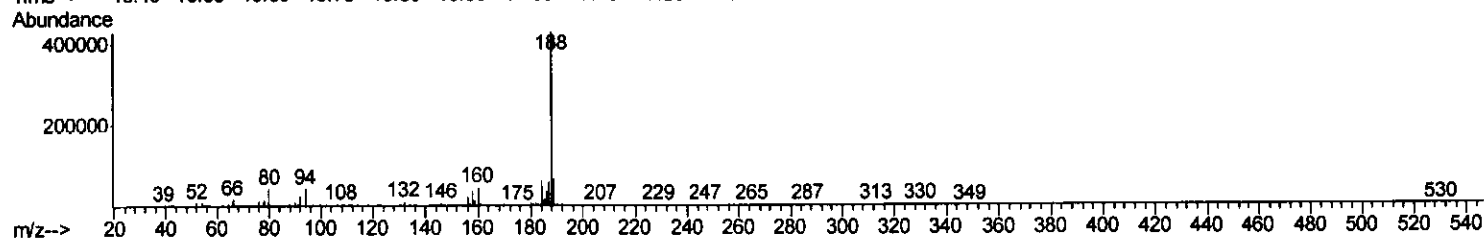
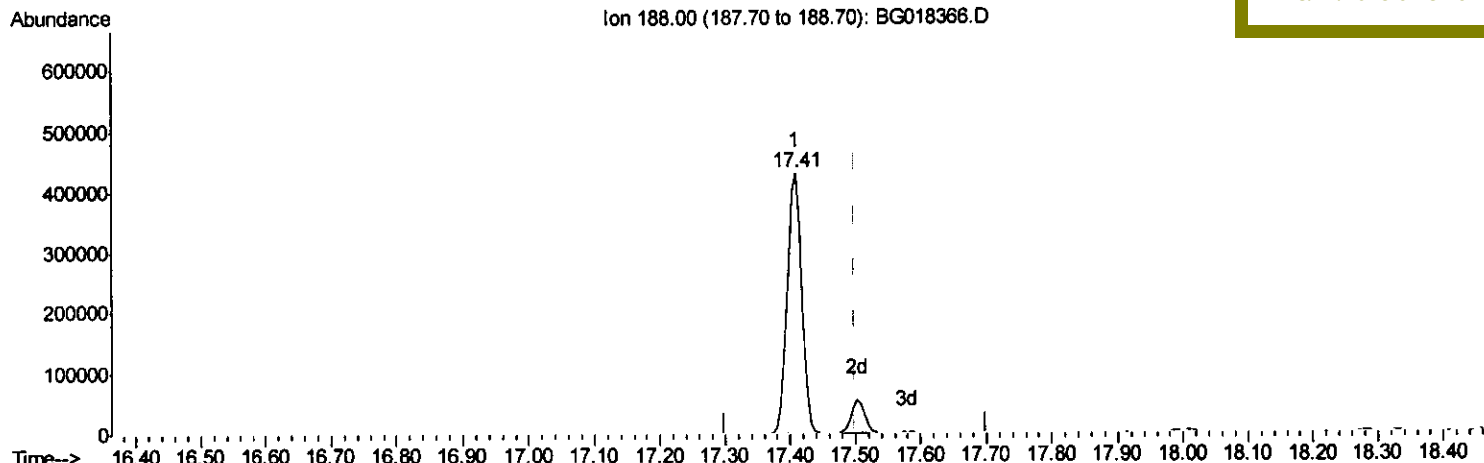
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Manual Integrations  
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Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration



(71) Anthracene-d10 (S)

17.408min (-0.091) 20.91ng/ul

response 668361

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.90 | 10.16 |
| 80.00  | 11.20 | 10.22 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

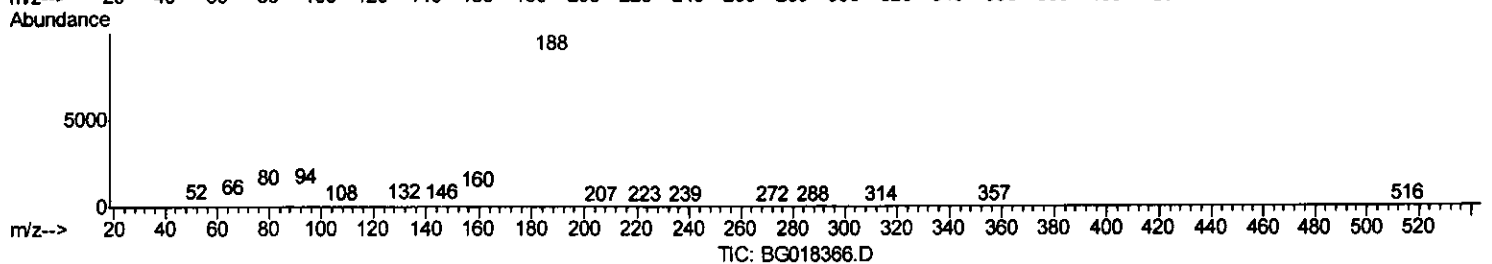
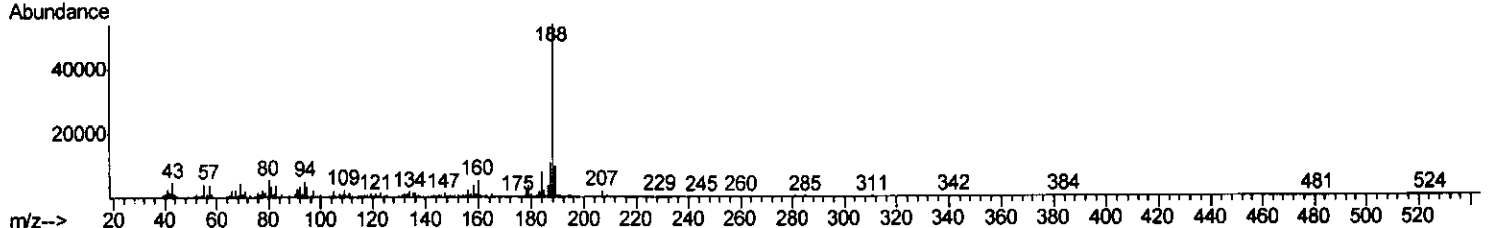
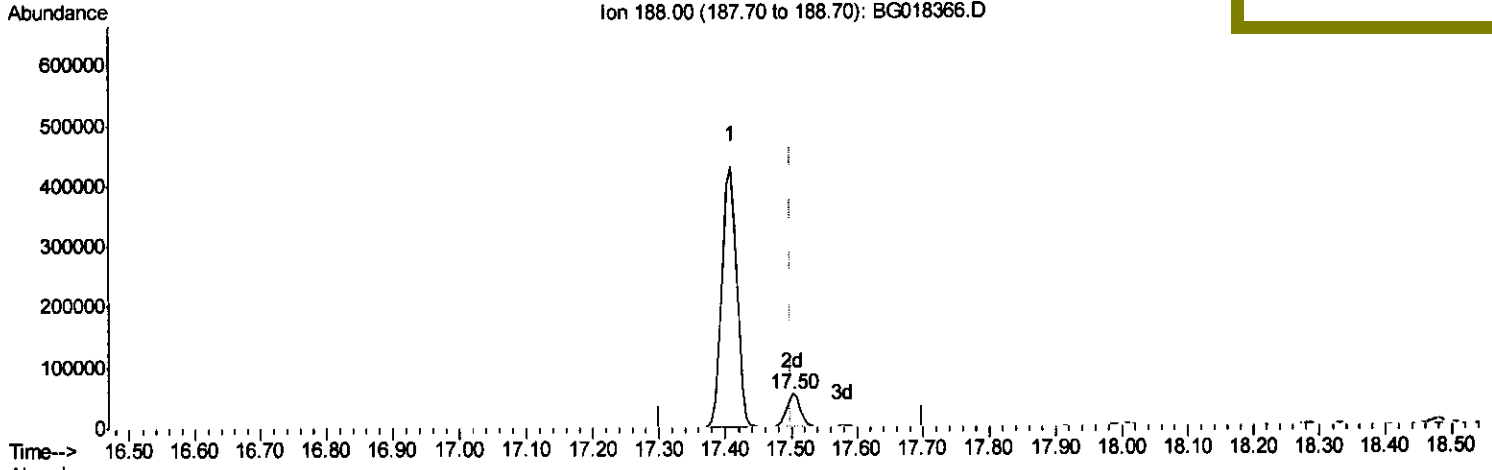
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Manual Integrations  
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apatel  
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Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration



(71) Anthracene-d10 (S)

17.502min (+0.003) 2.43ng/ul m

response 77582

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| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.90 | 9.23# |
| 80.00  | 11.20 | 10.49 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

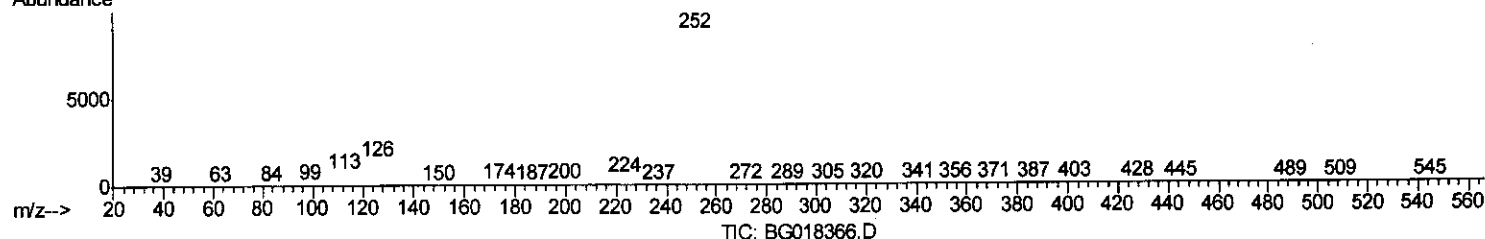
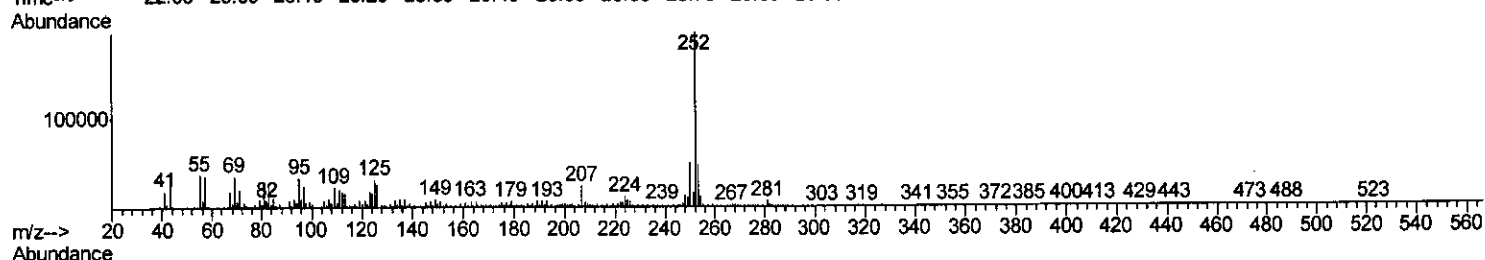
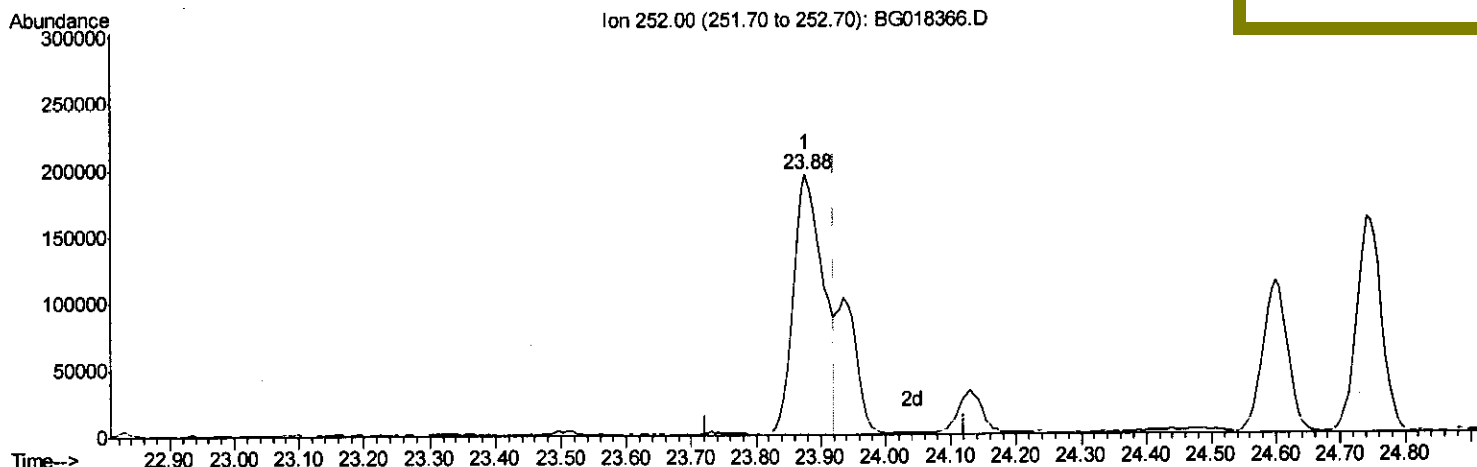
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

**Instrument :**  
 BNA\_G  
**ClientSampleId :**  
 C01P5DL

Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

**Manual Integrations**  
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(89) Benzo(k)fluoranthene

23.877min (-0.044) 17.82ng/ul

response 615862

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.20 | 23.73  |
| 125.00 | 11.20 | 16.15# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

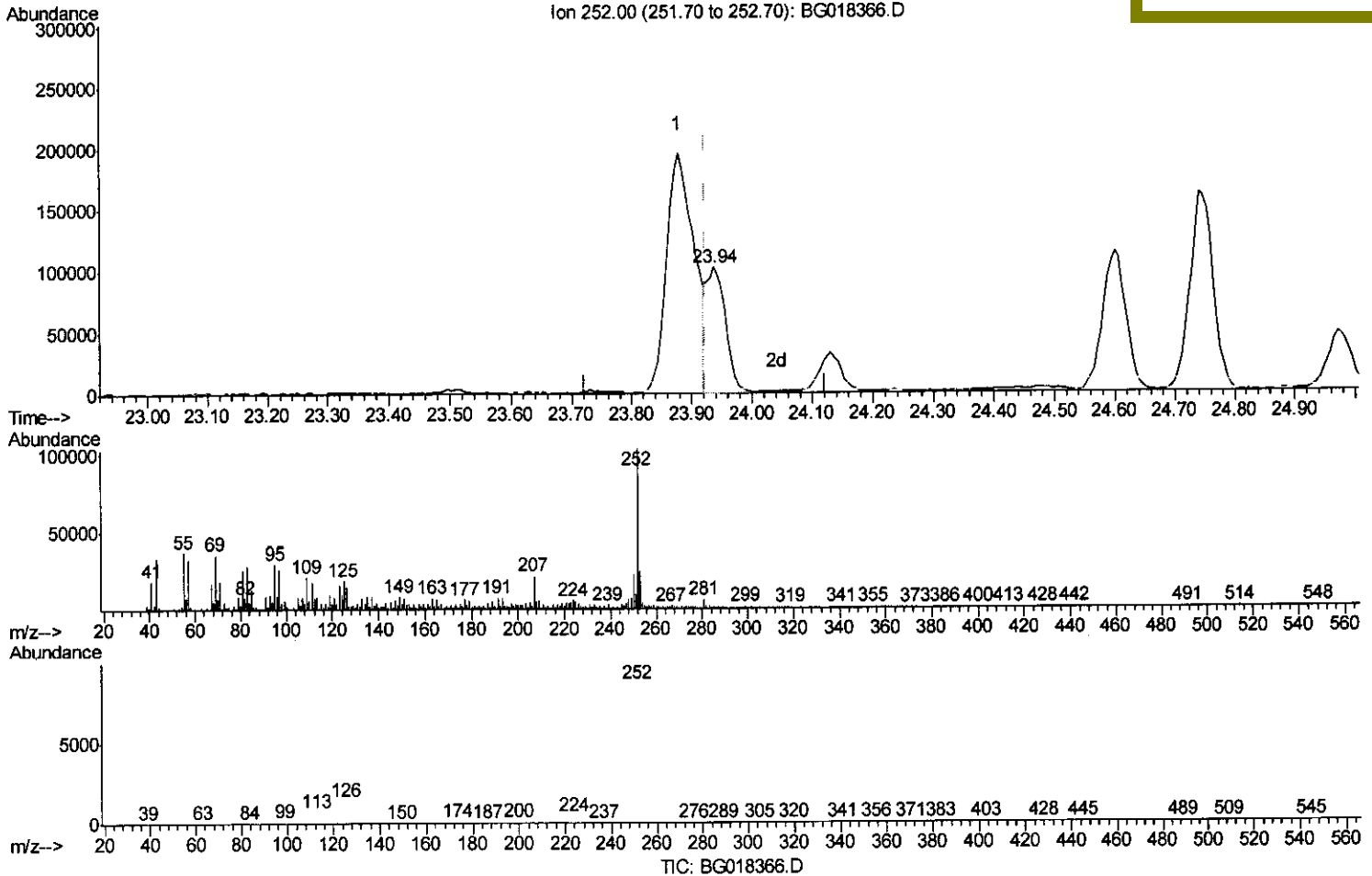
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

Manual Integrations  
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(89) Benzo(k)fluoranthene

23.936min (+0.014) 6.47ng/ul m

response 223741

Ion Exp% Act%

252.00 100 100

253.00 22.20 24.14

125.00 11.20 18.57#

0.00 0.00 0.00

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# Quantitation Report (Qedit)

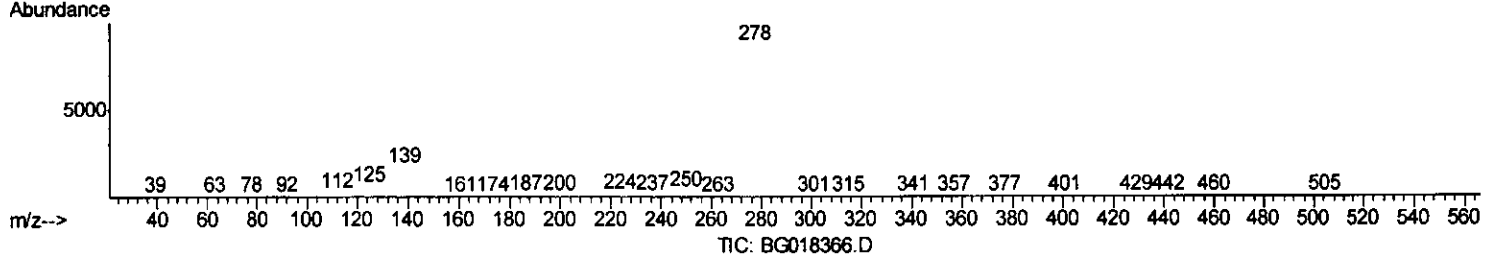
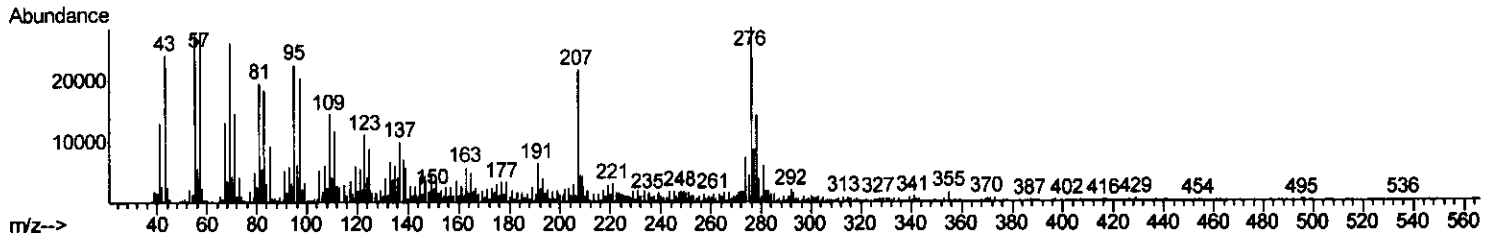
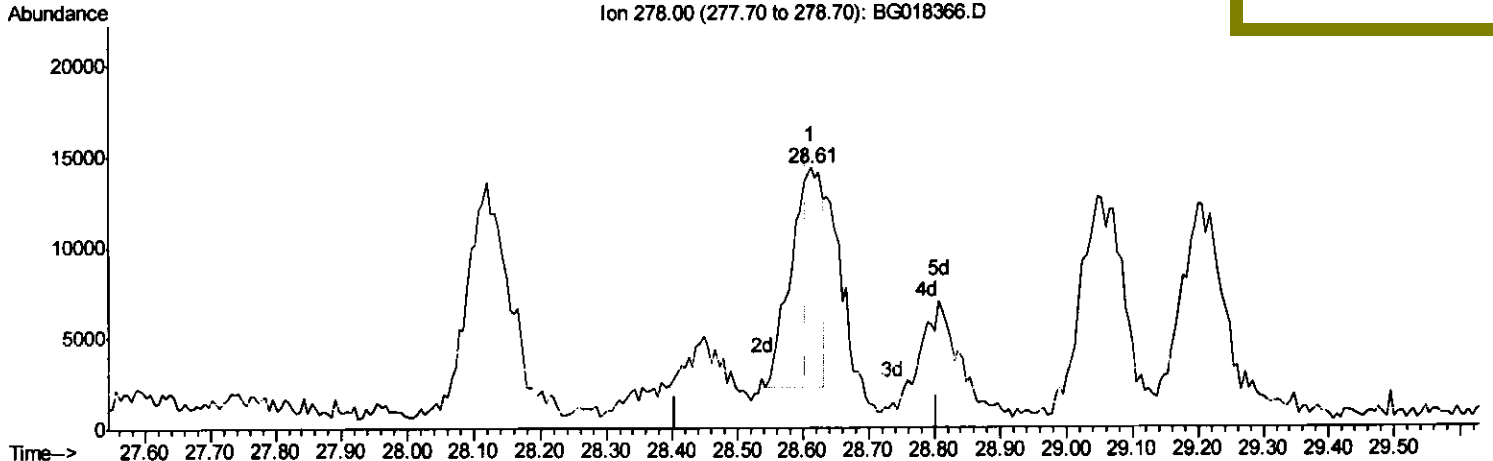
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

Manual Integrations  
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(93) Dibenzo(a,h)anthracene

28.613min (+0.008) 1.23ng/ui

response 40236

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 17.20 | 40.53# |
| 279.00 | 22.30 | 27.56# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

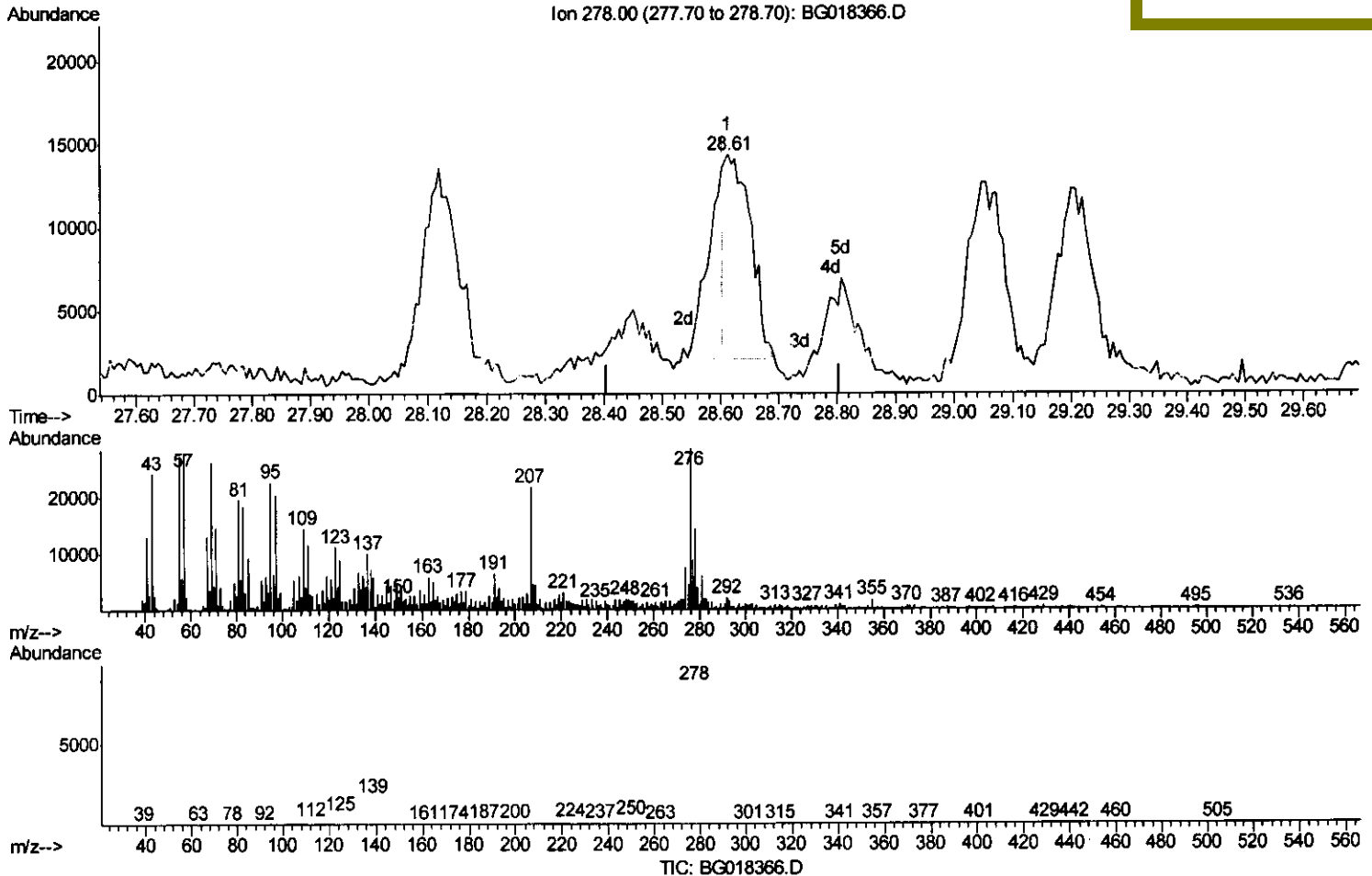
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 8/11/2015 9:13:19 AM



(93) Dibenzo(a,h)anthracene

28.613min (+0.008) 1.81ng/ul m

response 59297

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 17.20 | 40.53# |
| 279.00 | 22.30 | 27.56# |
| 0.00   | 0.00  | 0.00   |

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## Quantitation Report (Qedit)

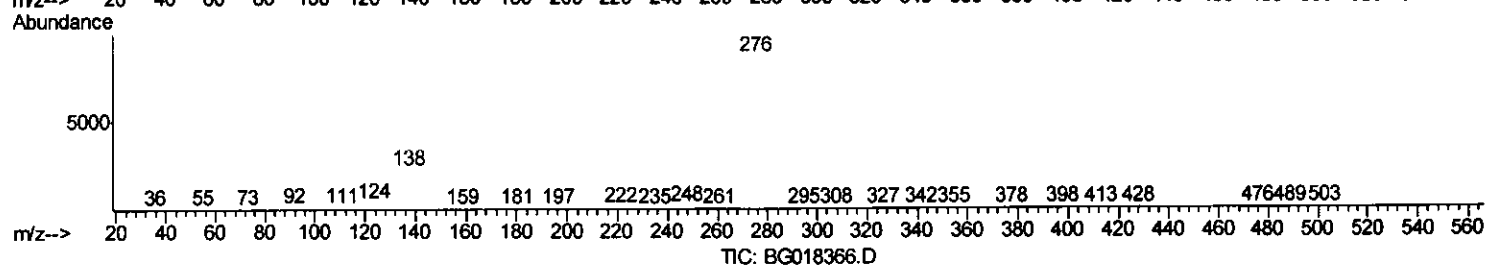
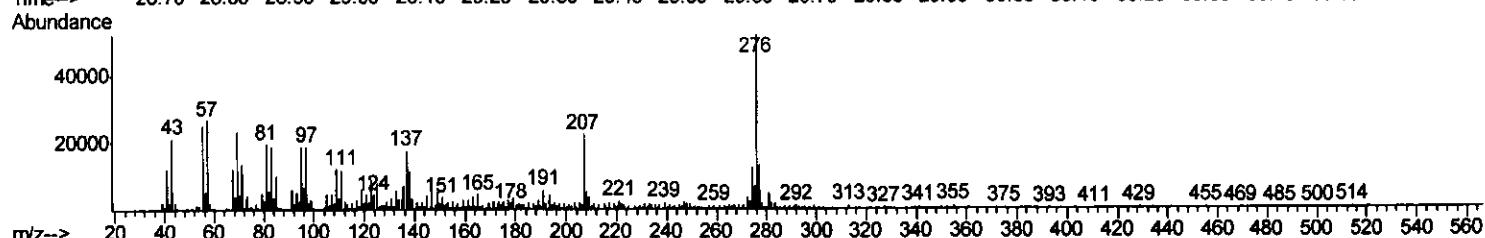
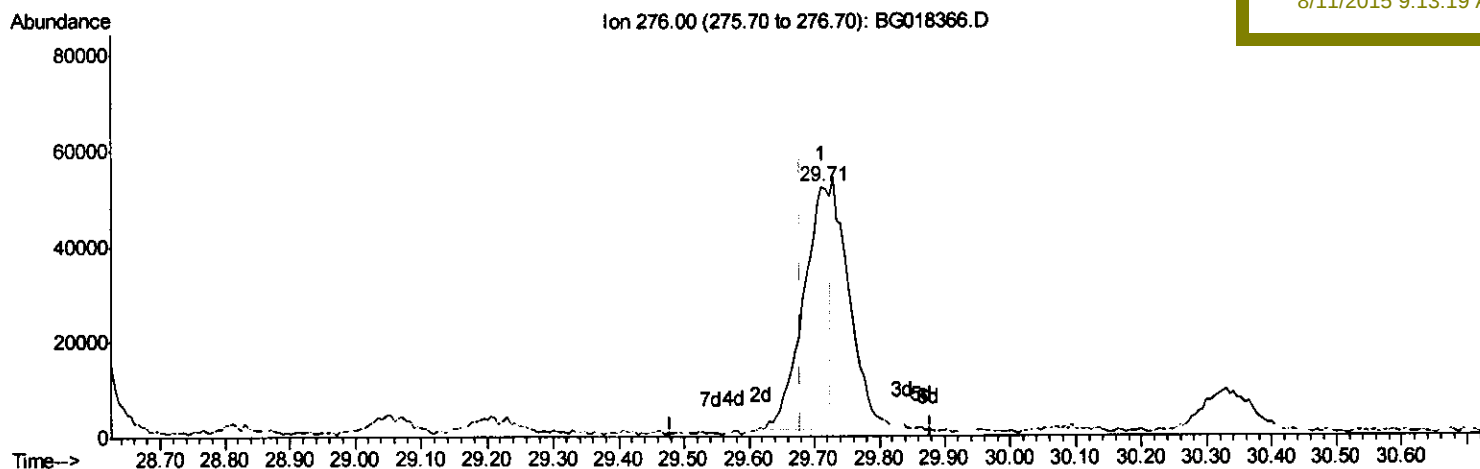
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
Data File : BG018366.D  
Acq On : 10 Aug 2015 22:50  
Operator : UM/MA  
Sample : G3109-04DL 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C01P5DL

Manual Integrations  
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Quant Time: Aug 11 01:44:10 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 11 01:39:57 2015  
Response via : Initial Calibration



(94) Benzo(g,h,i)perylene

29.712min (+0.032) 4.34ng/ul

response 143800

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 20.60 | 22.41 |
| 277.00 | 23.80 | 25.38 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

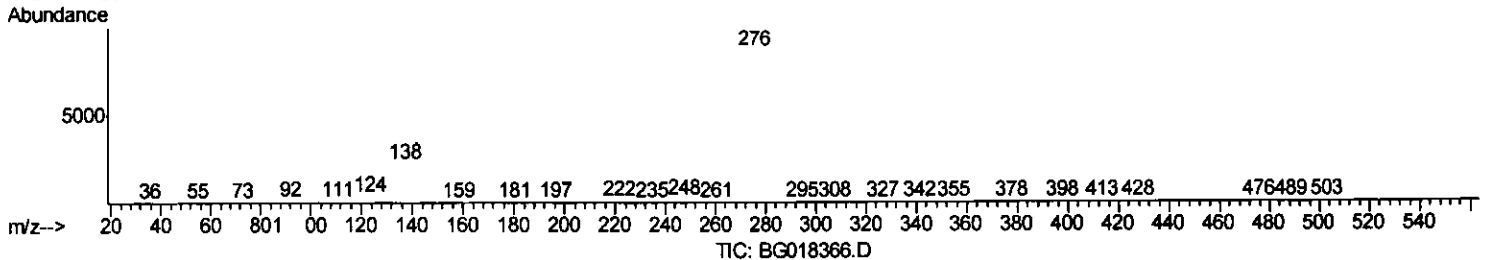
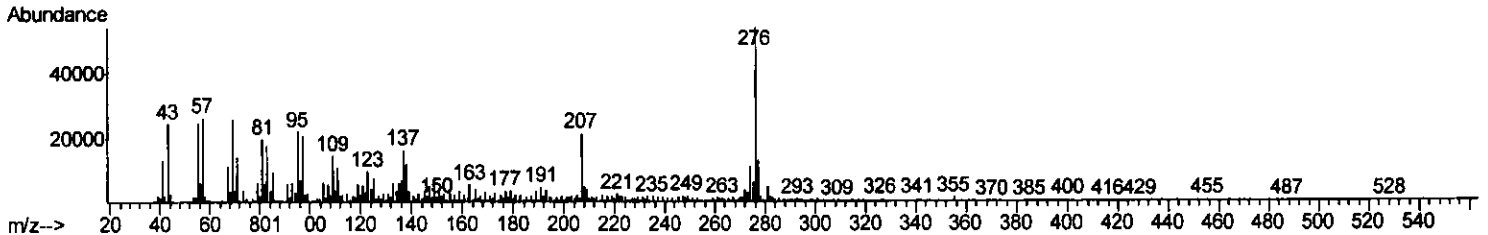
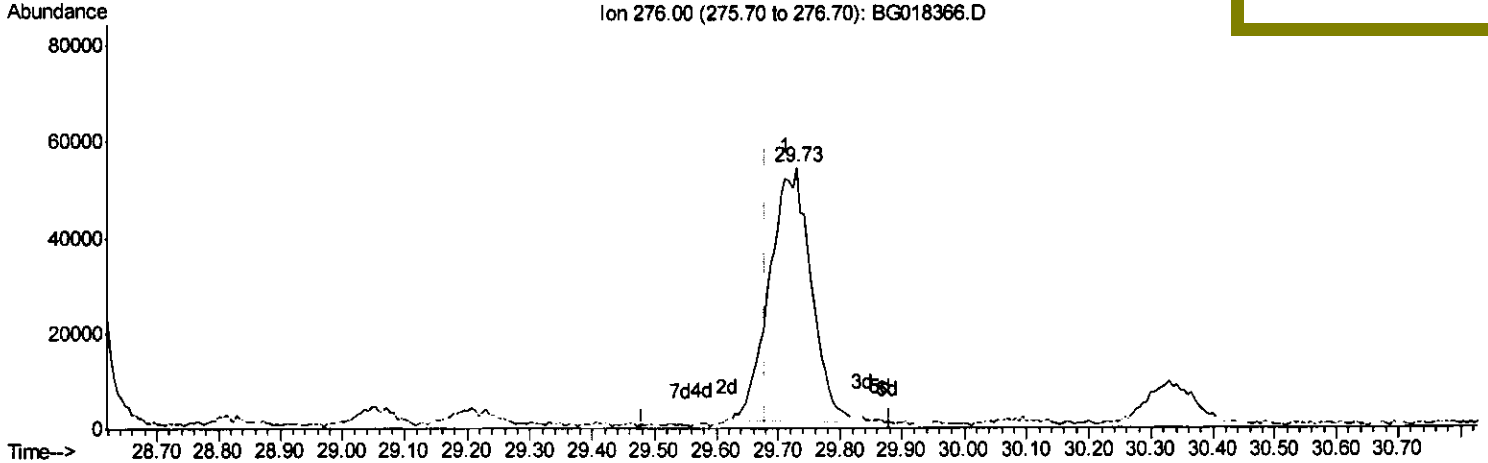
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Quant Time: Aug 11 01:44:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

Manual Integrations  
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 8/11/2015 9:13:19 AM



(94) Benzo(g,h,i)perylene

29.729min (+0.050) 7.46ng/ul m U.M  
8/12/15

response 247370

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 20.60 | 21.89 |
| 277.00 | 23.80 | 24.21 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081015\  
 Data File : BG018366.D  
 Acq On : 10 Aug 2015 22:50  
 Operator : UM/MA  
 Sample : G3109-04DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P5DL

Quant Time: Aug 11 03:56:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 11 01:39:57 2015  
 Response via : Initial Calibration

Manual Integrations  
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 8/11/2015 9:13:19 AM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 111600   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 513402   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.66 | 164  | 310793   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.41 | 188  | 668361   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.67 | 240  | 564933   | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 24.90 | 264  | 571199   | 20.00 | ng/ul | 0.03     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | Od     | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 7.20  | 99  | 25168  | 2.48 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67  | 15724  | 2.51 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.57  | 132 | 19481  | 2.51 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 12757  | 1.50 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 10459  | 2.61 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 10526  | 2.58 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.46 | 165 | 19248  | 2.23 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 1289   | 0.13 | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 14.06 | 166 | 63719  | 2.44 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.35 | 160 | 79026  | 2.40 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.84 | 143 | 7432   | 1.58 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.65 | 176 | 56435  | 2.48 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | Od     | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.50 | 188 | 77582m | 2.43 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.79 | 212 | 72300  | 2.47 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.67 | 264 | 69559  | 2.29 | ng/ul | 0.01 |

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| Target Compounds               |       |     |         |              | Qvalue |
|--------------------------------|-------|-----|---------|--------------|--------|
| 50) Acenaphthene               | 14.73 | 153 | 23229   | 1.00 ng/ul   | 93     |
| 59) Fluorene                   | 15.70 | 166 | 28863   | 1.11 ng/ul#  | 90     |
| 70) Phenanthrene               | 17.45 | 178 | 607228  | 16.75 ng/ul  | 99     |
| 72) Anthracene                 | 17.54 | 178 | 152060  | 4.11 ng/ul   | 96     |
| 75) Carbazole                  | 17.80 | 167 | 33669   | 1.04 ng/ul   | 94     |
| 76) Di-n-butylphthalate        | 18.37 | 149 | 174188  | 4.12 ng/ul   | 99     |
| 77) Fluoranthene               | 19.46 | 202 | 1114223 | 28.77 ng/ul  | 99     |
| 80) Pyrene                     | 19.82 | 202 | 970571  | 25.41 ng/ul  | 100    |
| 81) Butylbenzylphthalate       | 20.70 | 149 | 17321   | 1.07 ng/ul#  | 74     |
| 83) Benzo(a)anthracene         | 21.66 | 228 | 526996  | 15.05 ng/ul  | 96     |
| 84) Bis(2-ethylhexyl)phthalate | 21.57 | 149 | 79175   | 3.47 ng/ul#  | 90     |
| 85) Chrysene                   | 21.72 | 228 | 469281  | 14.33 ng/ul  | 95     |
| 88) Benzo(b)fluoranthene       | 23.88 | 252 | 615862  | 17.16 ng/ul# | 94     |
| 89) Benzo(k)fluoranthene       | 23.94 | 252 | 223741m | 6.47 ng/ul   |        |
| 91) Benzo(a)pyrene             | 24.74 | 252 | 429088  | 12.58 ng/ul# | 93     |
| 92) Indeno(1,2,3-cd)pyrene     | 28.58 | 276 | 282994  | 7.17 ng/ul   | 94     |
| 93) Dibenzo(a,h)anthracene     | 28.61 | 278 | 59297m  | 1.81 ng/ul   |        |
| 94) Benzo(g,h,i)perylene       | 29.73 | 276 | 247370m | 7.46 ng/ul   |        |

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