

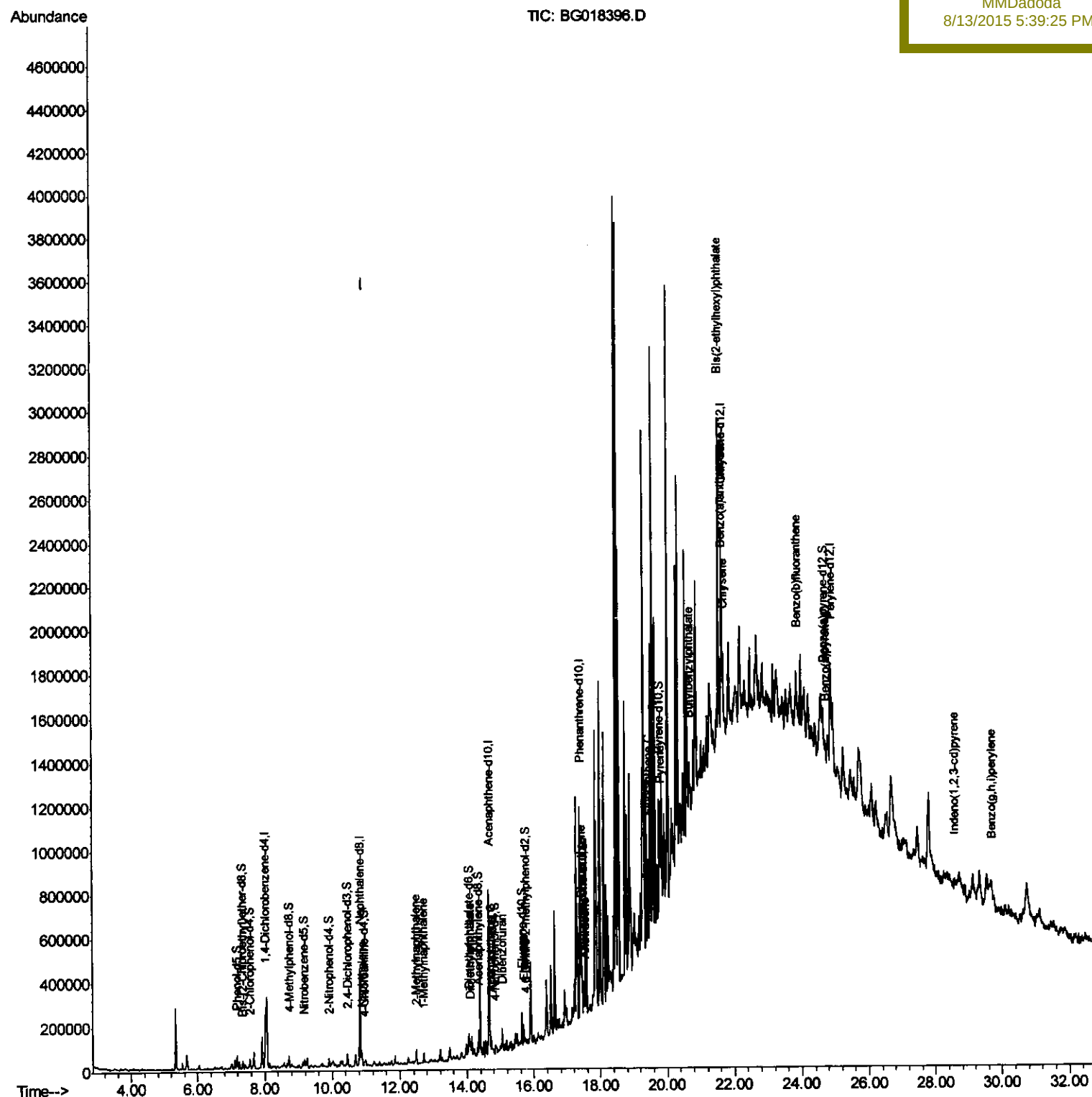
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:51:37 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



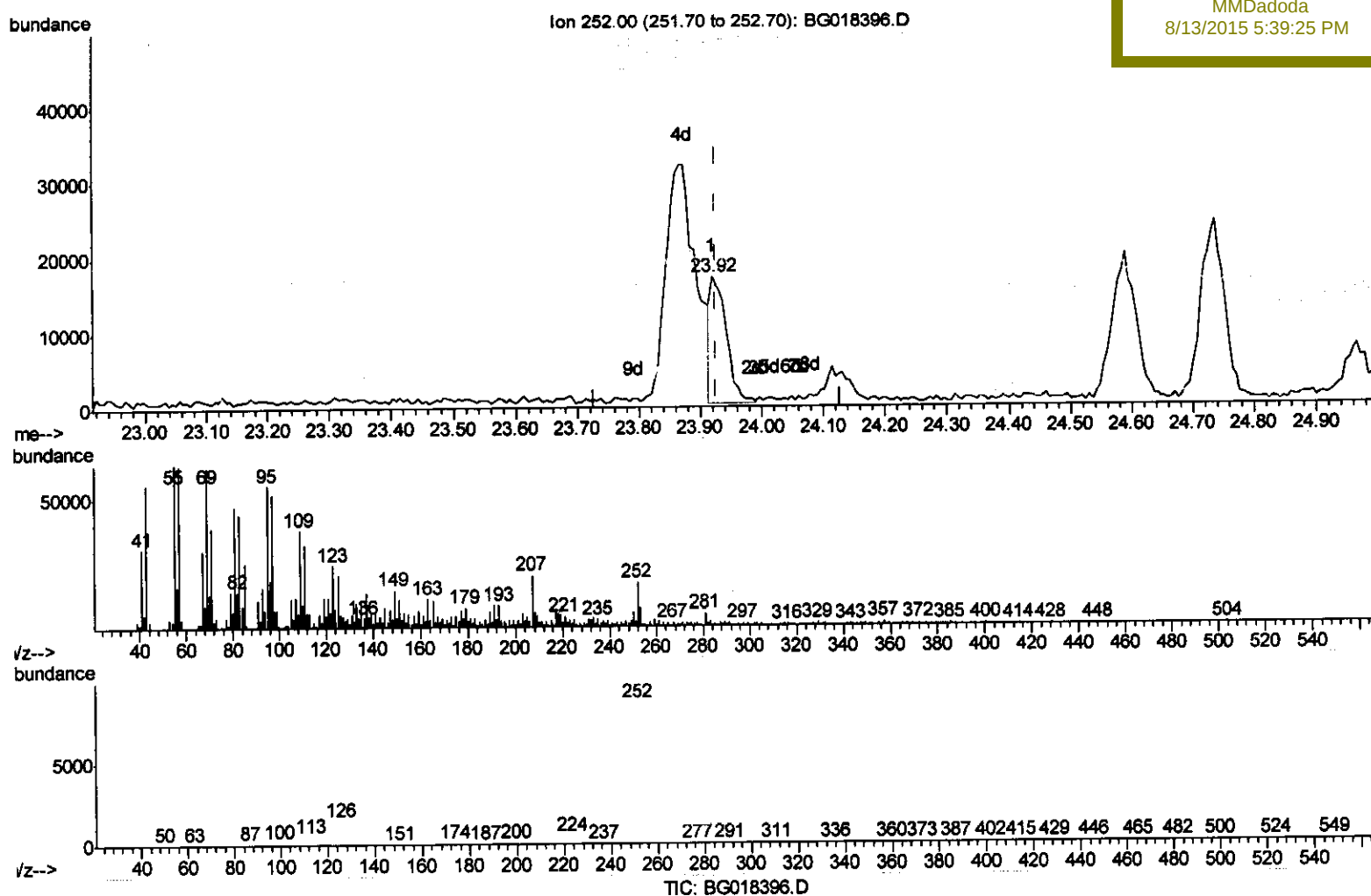
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:51:37 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampled :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



(89) Benzo(k)fluoranthene  
 23.919min (-0.008) 1.08ng/ul m  
 response 29865

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 22.20 | 43.56#  |
| 125.00 | 11.20 | 118.99# |
| 0.00   | 0.00  | 0.00    |

U.M.  
 08/14/15

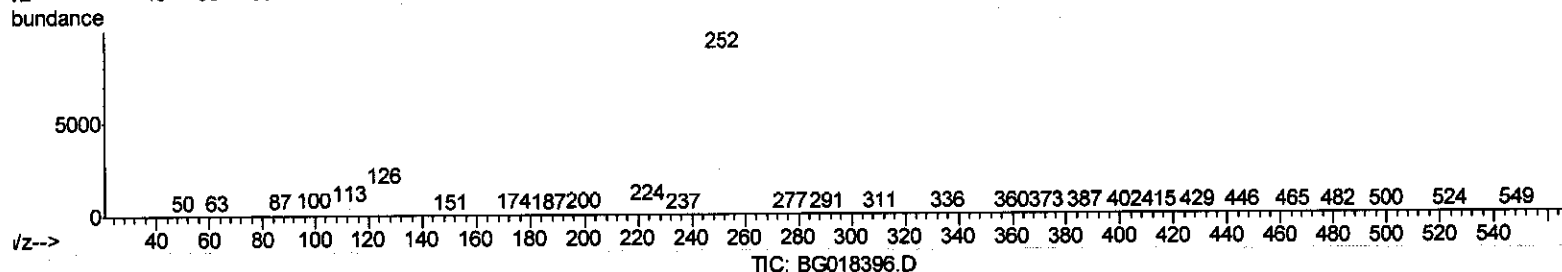
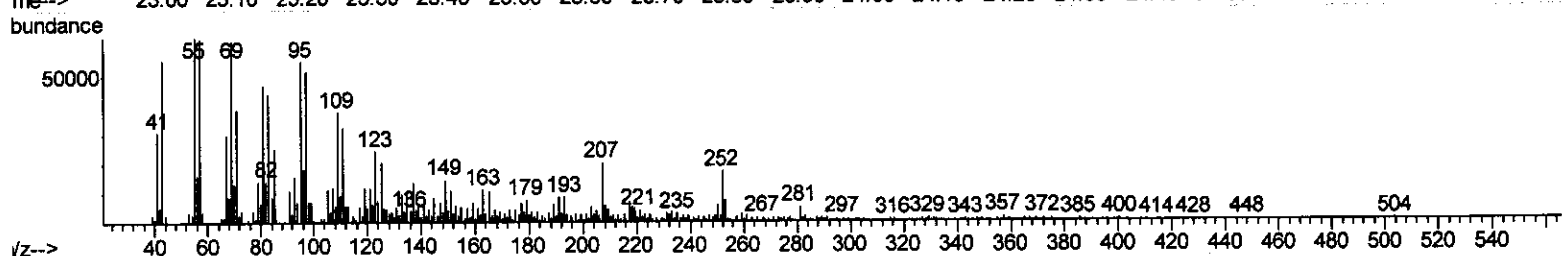
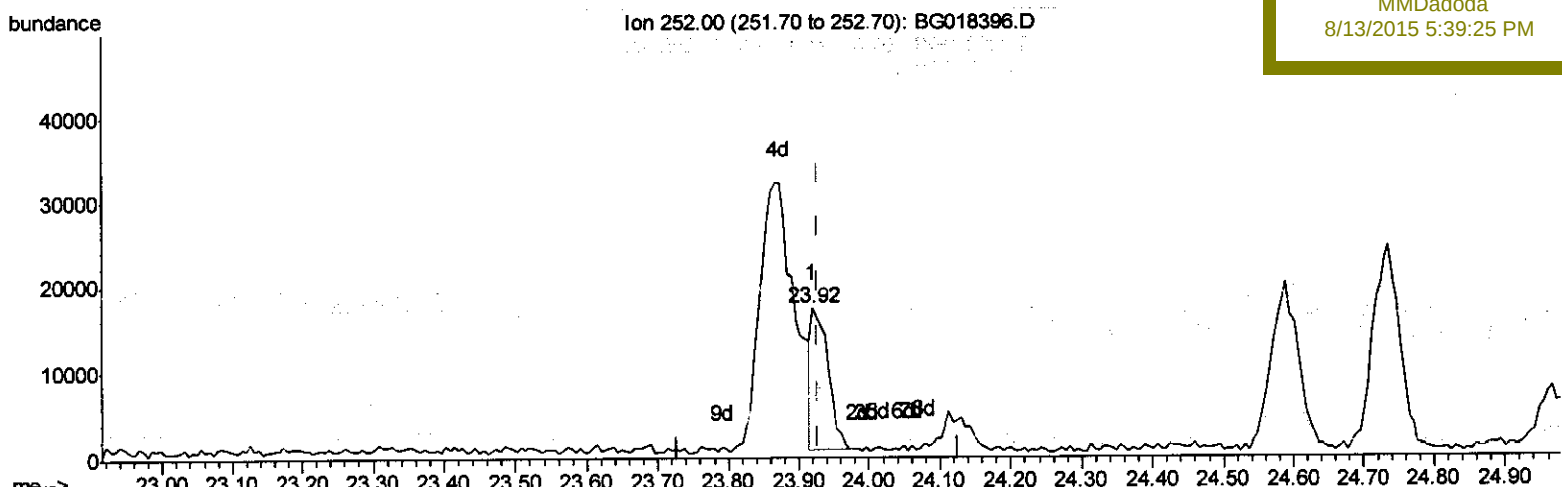
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:51:37 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



(89) Benzo(k)fluoranthene

23.919min (-0.008) 1.00ng/ul

response 27615

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 22.20 | 43.56#  |
| 125.00 | 11.20 | 118.99# |
| 0.00   | 0.00  | 0.00    |

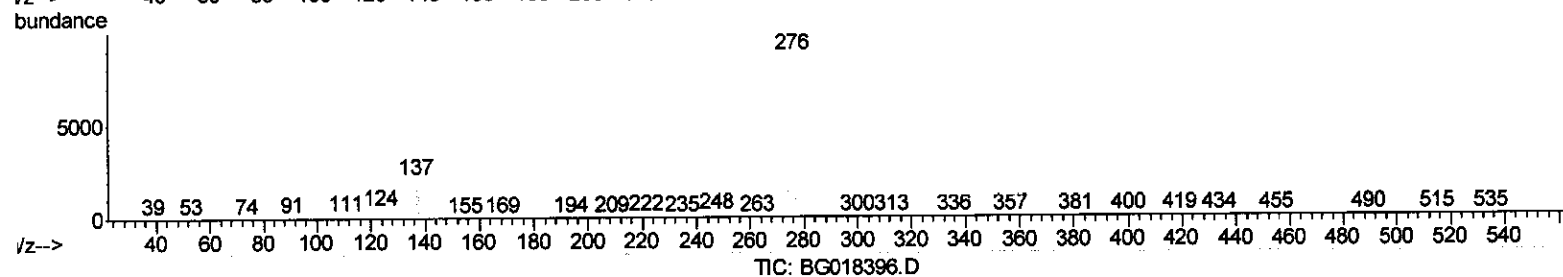
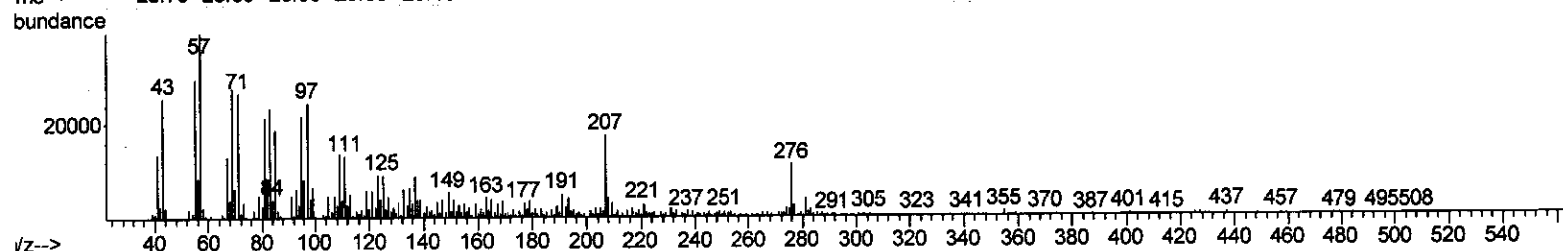
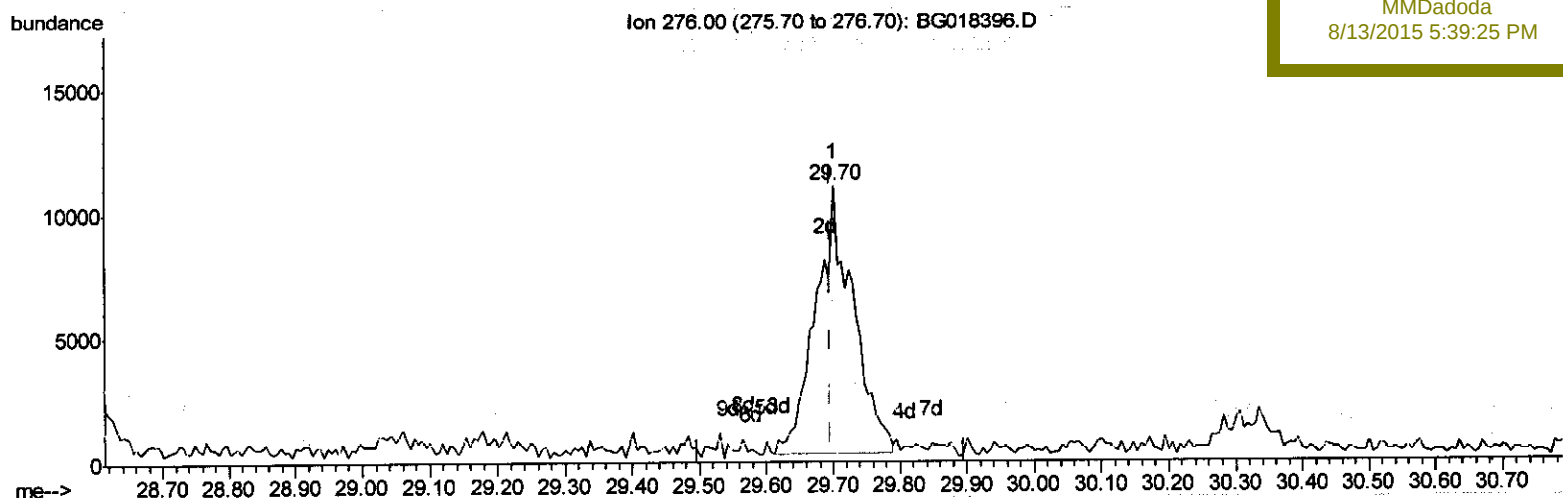
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:50:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



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

29.701min (+0.004) 1.57ng/ul m

response 41666

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 20.60 | 34.61# |
| 277.00 | 23.80 | 24.05  |
| 0.00   | 0.00  | 0.00   |

*U.A.*  
*08/14/15*

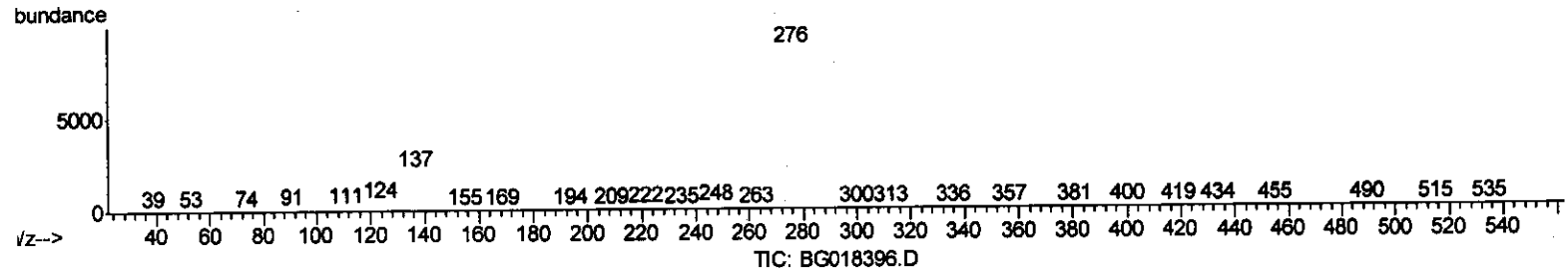
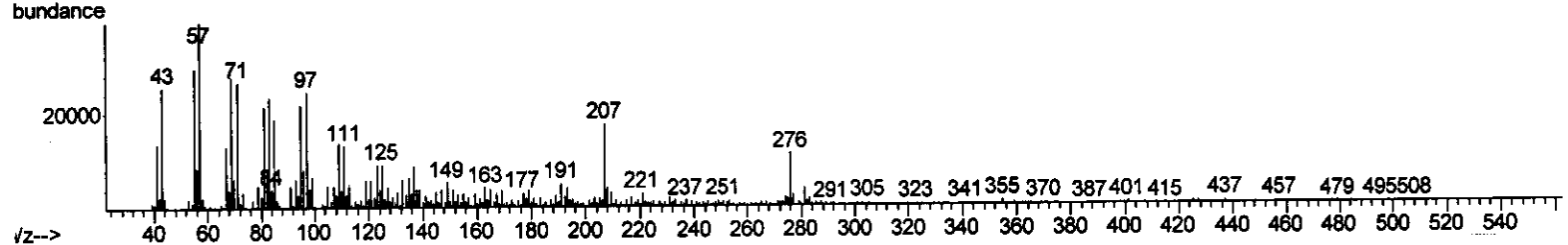
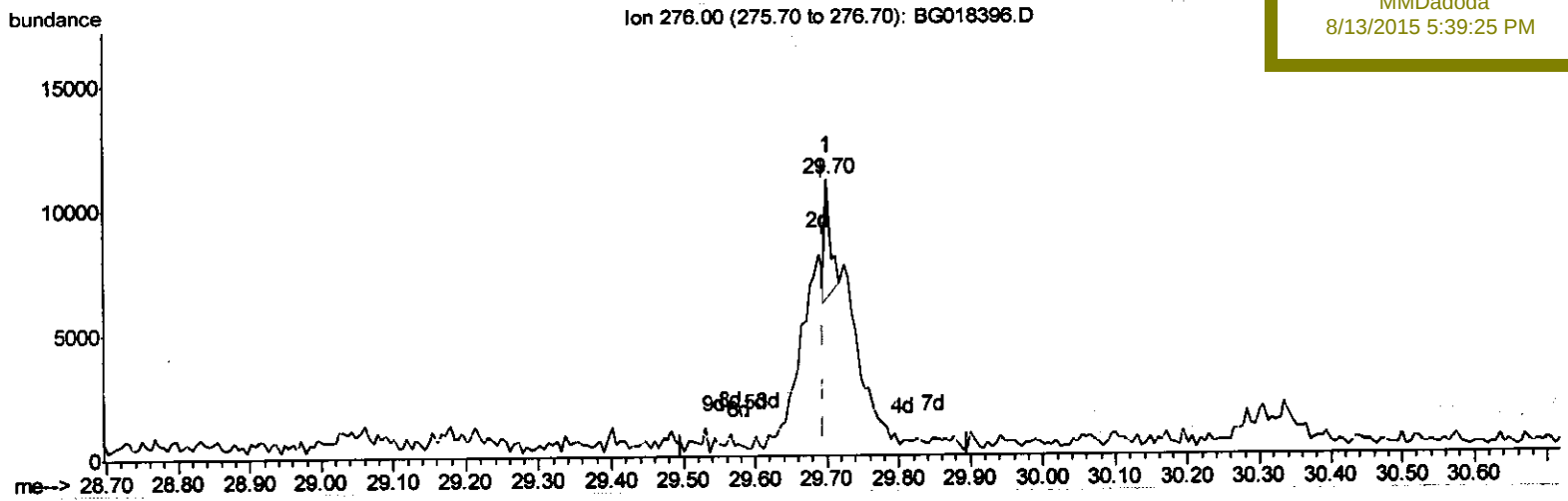
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:50:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



(94) Benzo(g,h,i)perylene  
 29.701min (+0.004) 0.10ng/ui

response 2758

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 20.60 | 34.61# |
| 277.00 | 23.80 | 24.05  |
| 0.00   | 0.00  | 0.00   |

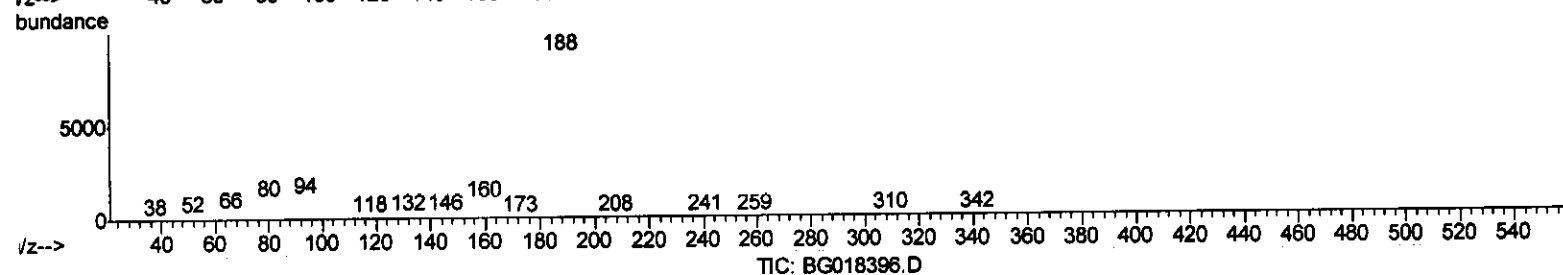
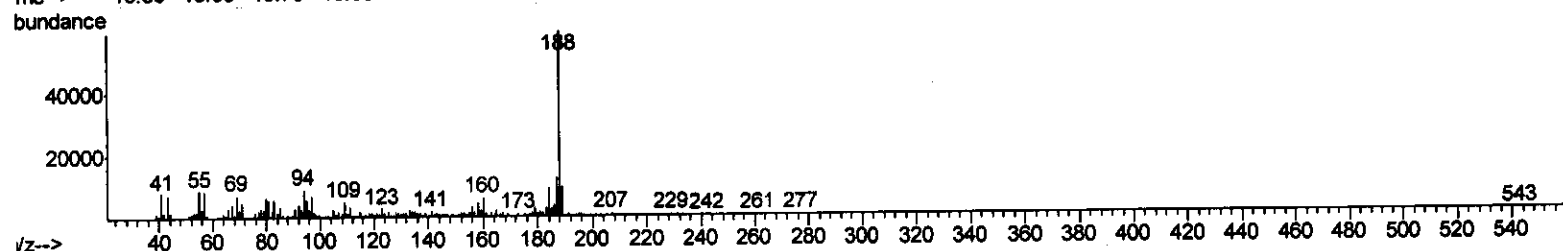
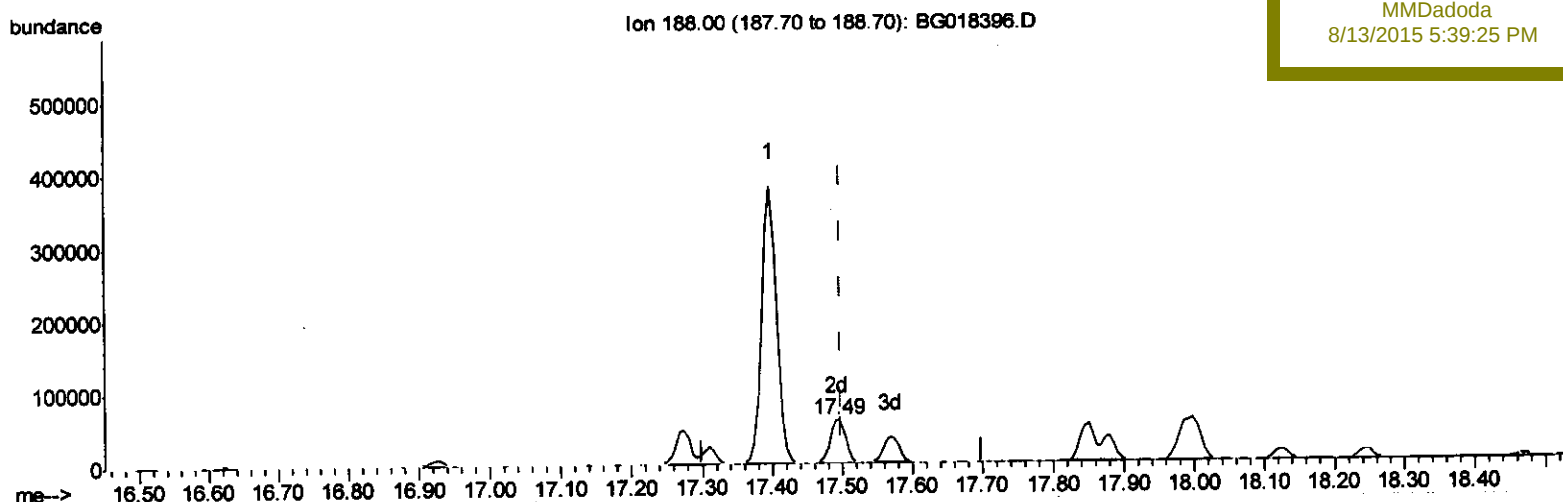
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:44:46 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



(71) Anthracene-d10 (S)  
 17.492min (-0.008) 3.47ng/ul m  
 response 92039

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 11.90 | 15.46# |
| 80.00  | 11.20 | 11.53  |
| 0.00   | 0.00  | 0.00   |

*U.A.*  
*08/14/15*

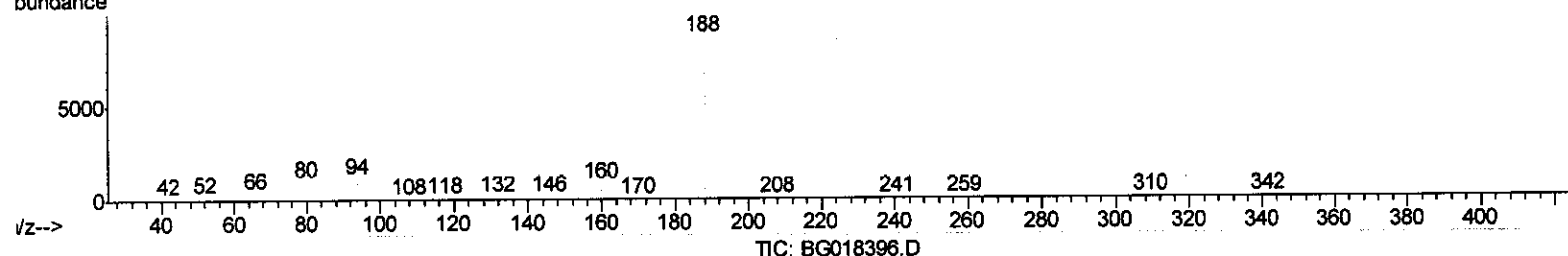
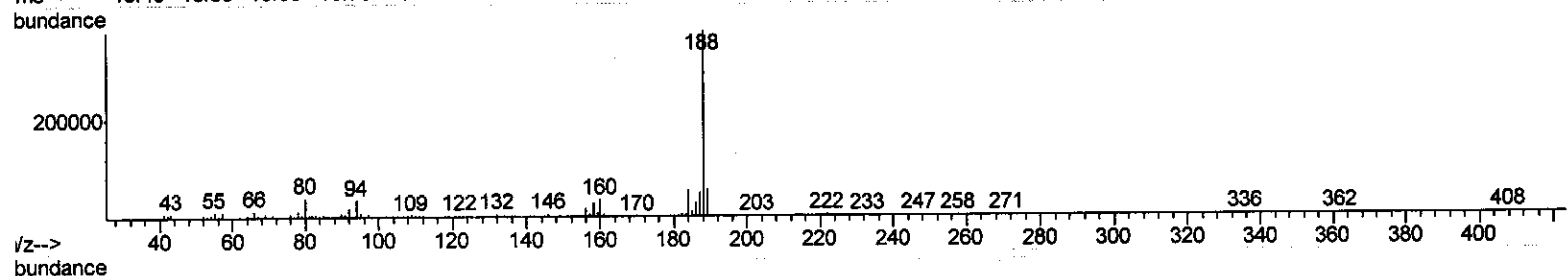
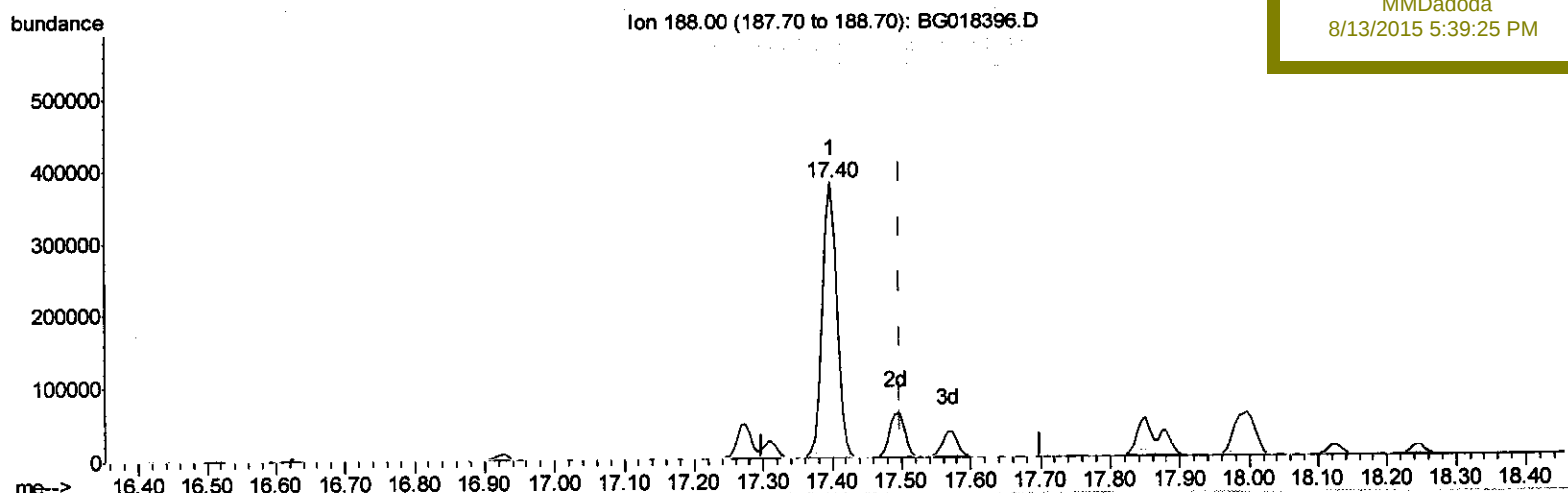
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081215\  
 Data File : BG018396.D  
 Acq On : 12 Aug 2015 11:49  
 Operator : UM/MA  
 Sample : G3109-13 DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:44:46 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 13 01:43:01 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C01P9DL

Manual Integrations  
 APPROVED

MMDadoda  
 8/13/2015 5:39:25 PM



(71) Anthracene-d10 (S)

17.398min (-0.102) 20.91ng/ul

response 554949

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 11.90 | 9.54  |
| 80.00  | 11.20 | 10.33 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG081215\  
Data File : BG018396.D  
Acq On : 12 Aug 2015 11:49  
Operator : UM/MA  
Sample : G3109-13 DL 5X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 03:10:43 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 13 01:43:01 2015  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampleId :  
C01P9DL

Manual Integrations  
APPROVED  
MMDadoda  
8/13/2015 5:39:25 PM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 77267    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.83 | 136  | 383294   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.65 | 164  | 242354   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.40 | 188  | 554949   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.66 | 240  | 487029   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.89 | 264  | 457697   | 20.00 | ng/ul | 0.01     |

| System Monitoring Compounds    |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0d     | 0.00 | ng/uL |       |
| 5) Phenol-d5                   | 7.18  | 99  | 24951  | 3.56 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 16757  | 3.86 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.56  | 132 | 20022  | 3.73 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.73  | 113 | 20057  | 3.40 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.18  | 128 | 10192  | 3.41 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.91  | 143 | 12139  | 3.99 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.45 | 165 | 22069  | 3.42 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.95 | 131 | 11366  | 1.56 | ng/ul | -0.01 |
| 44) Dimethylphthalate-d6       | 14.05 | 166 | 73622  | 3.61 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.35 | 160 | 88790  | 3.46 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.84 | 143 | 7349   | 2.00 | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.64 | 176 | 63658  | 3.58 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.75 | 200 | 6967   | 2.55 | ng/ul | 0.00  |
| 71) Anthracene-d10             | 17.49 | 188 | 92039m | 3.47 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.78 | 212 | 91454  | 3.62 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 24.67 | 264 | 79326  | 3.26 | ng/ul | 0.00  |

| Target Compounds               |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene                | 10.88 | 128 | 47392  | 2.34  | ng/ul# | 94     |
| 34) 2-Methylnaphthalene        | 12.49 | 142 | 30015  | 2.05  | ng/ul  | 98     |
| 45) Dimethylphthalate          | 14.10 | 163 | 28022  | 1.39  | ng/ul# | 95     |
| 50) Acenaphthene               | 14.71 | 153 | 34173  | 1.89  | ng/ul  | 92     |
| 54) Dibenzofuran               | 15.05 | 168 | 30413  | 1.29  | ng/ul  | 93     |
| 59) Fluorene                   | 15.70 | 166 | 36961  | 1.82  | ng/ul  | 98     |
| 70) Phenanthrene               | 17.44 | 178 | 195399 | 6.49  | ng/ul  | 98     |
| 72) Anthracene                 | 17.53 | 178 | 46226  | 1.51  | ng/ul  | 100    |
| 77) Fluoranthene               | 19.45 | 202 | 234096 | 7.28  | ng/ul  | 96     |
| 80) Pyrene                     | 19.81 | 202 | 213642 | 6.49  | ng/ul  | 95     |
| 81) Butylbenzylphthalate       | 20.69 | 149 | 59210  | 4.25  | ng/ul  | 91     |
| 83) Benzo(a)anthracene         | 21.65 | 228 | 79550  | 2.63  | ng/ul# | 90     |
| 84) Bis(2-ethylhexyl)phthalate | 21.56 | 149 | 620049 | 31.50 | ng/ul  | 98     |
| 85) Chrysene                   | 21.70 | 228 | 74276  | 2.63  | ng/ul# | 95     |
| 88) Benzo(b)fluoranthene       | 23.87 | 252 | 106374 | 3.70  | ng/ul# | 41     |
| 89) Benzo(k)fluoranthene       | 23.92 | 252 | 29865m | 1.08  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 24.74 | 252 | 62667  | 2.29  | ng/ul# | 45     |
| 92) Indeno(1,2,3-cd)pyrene     | 28.56 | 276 | 42041  | 1.33  | ng/ul# | 79     |
| 94) Benzo(g,h,i)perylene       | 29.70 | 276 | 41666m | 1.57  | ng/ul  |        |

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