

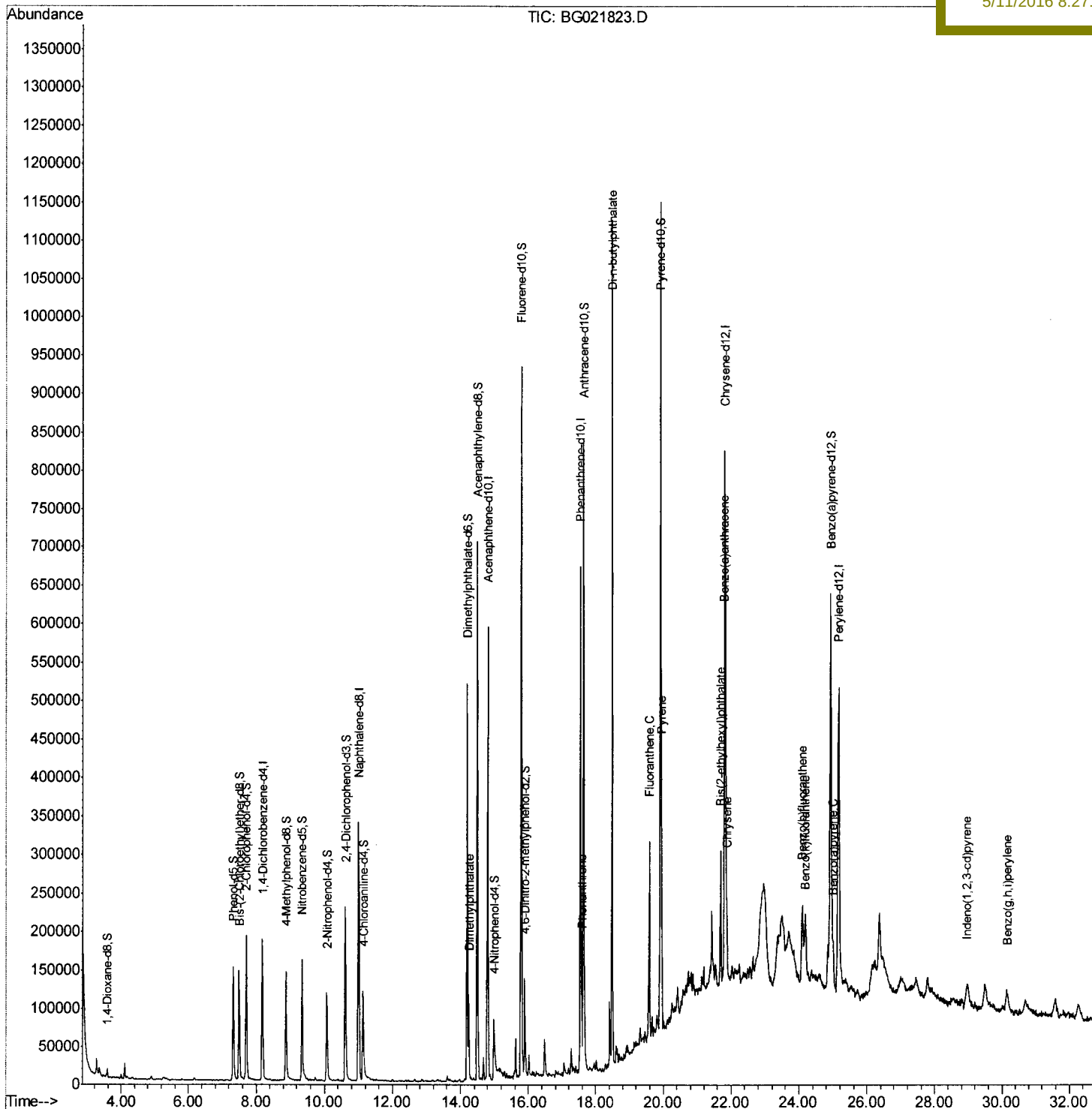
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM



## Quantitation Report (Qedit)

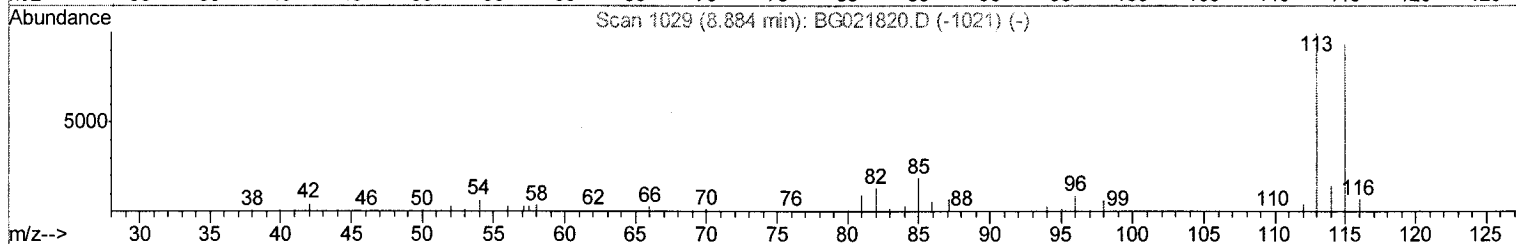
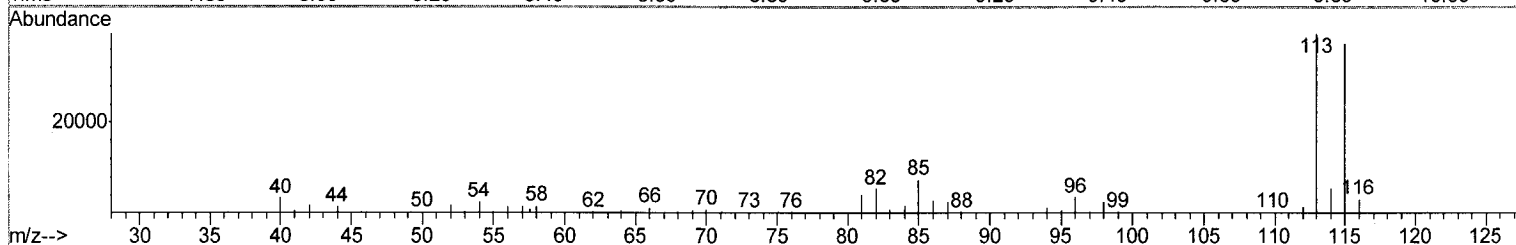
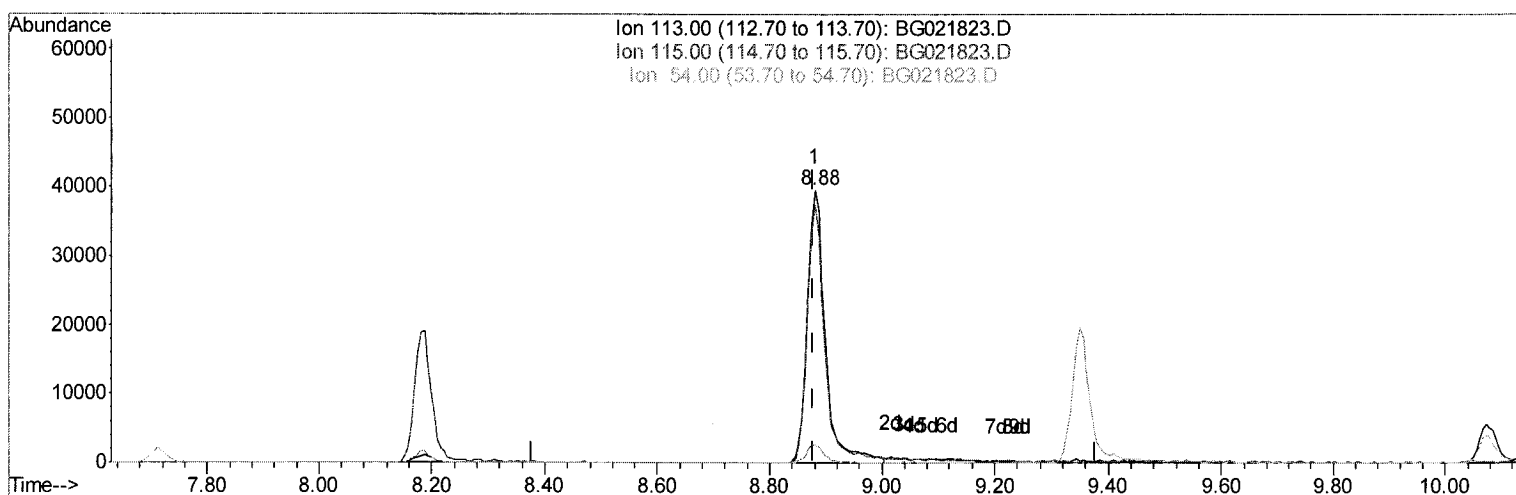
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampled :  
D9XB1

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration



(13) 4-Methylphenol-d8 (S)

8.880min (+0.002) 18.37ng/ul m U.M  
response 87245  
05/13/16

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 113.00 | 100   | 100   |
| 115.00 | 93.40 | 94.78 |
| 54.00  | 18.70 | 6.39# |
| 0.00   | 0.00  | 0.00  |

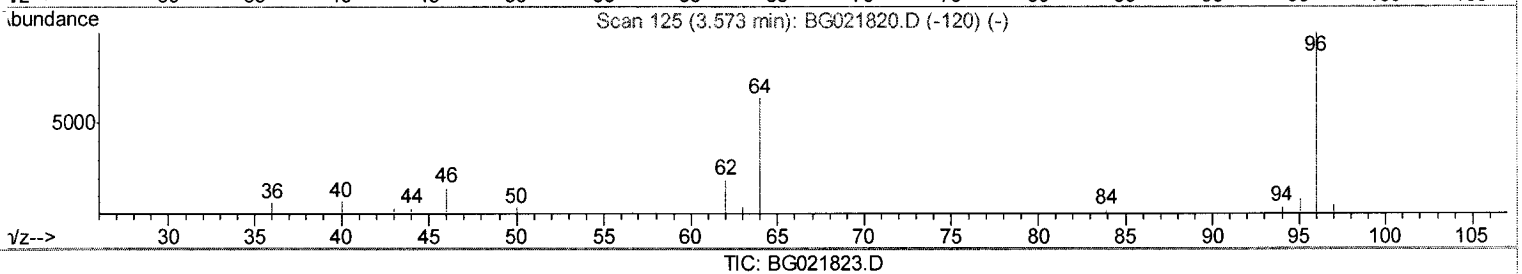
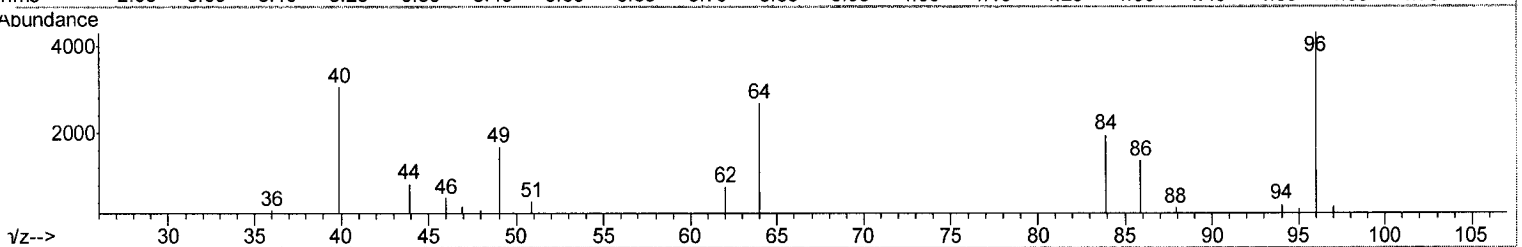
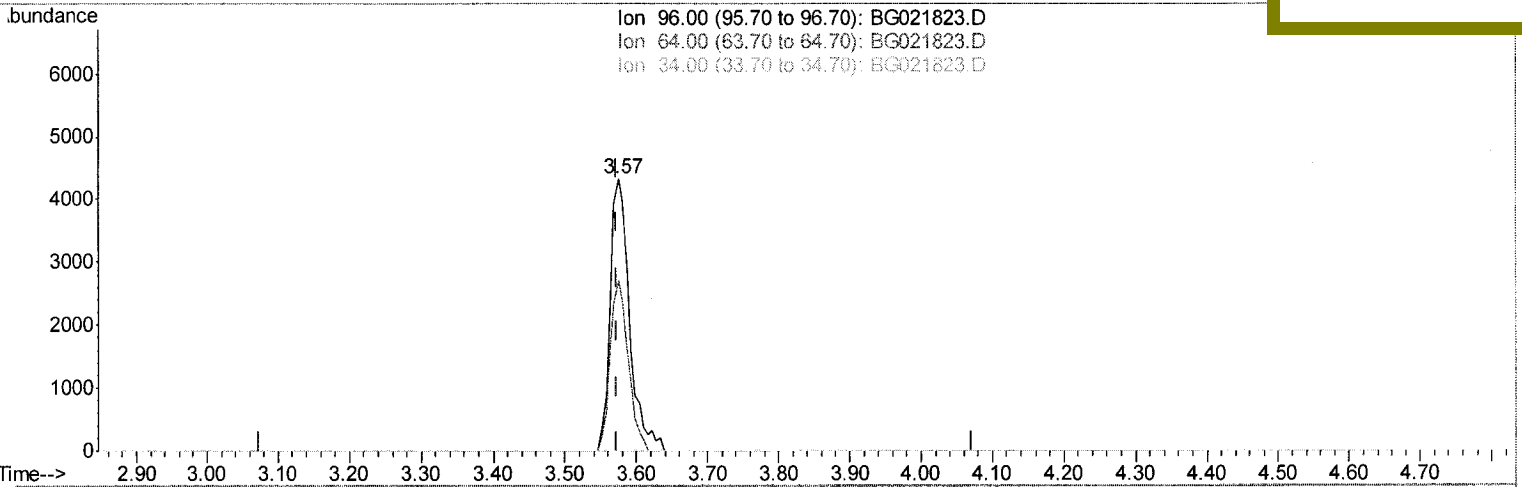
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration



(3) 1,4-Dioxane-d8 (S)

3.575min (+0.002) 5.16ng/uL m

response 8138

Ion Exp% Act%

96.00 100 100

64.00 66.20 62.31

34.00 0.00 0.00

0.00 0.00 0.00

U.M  
25/13/16

# Quantitation Report (Qedit)

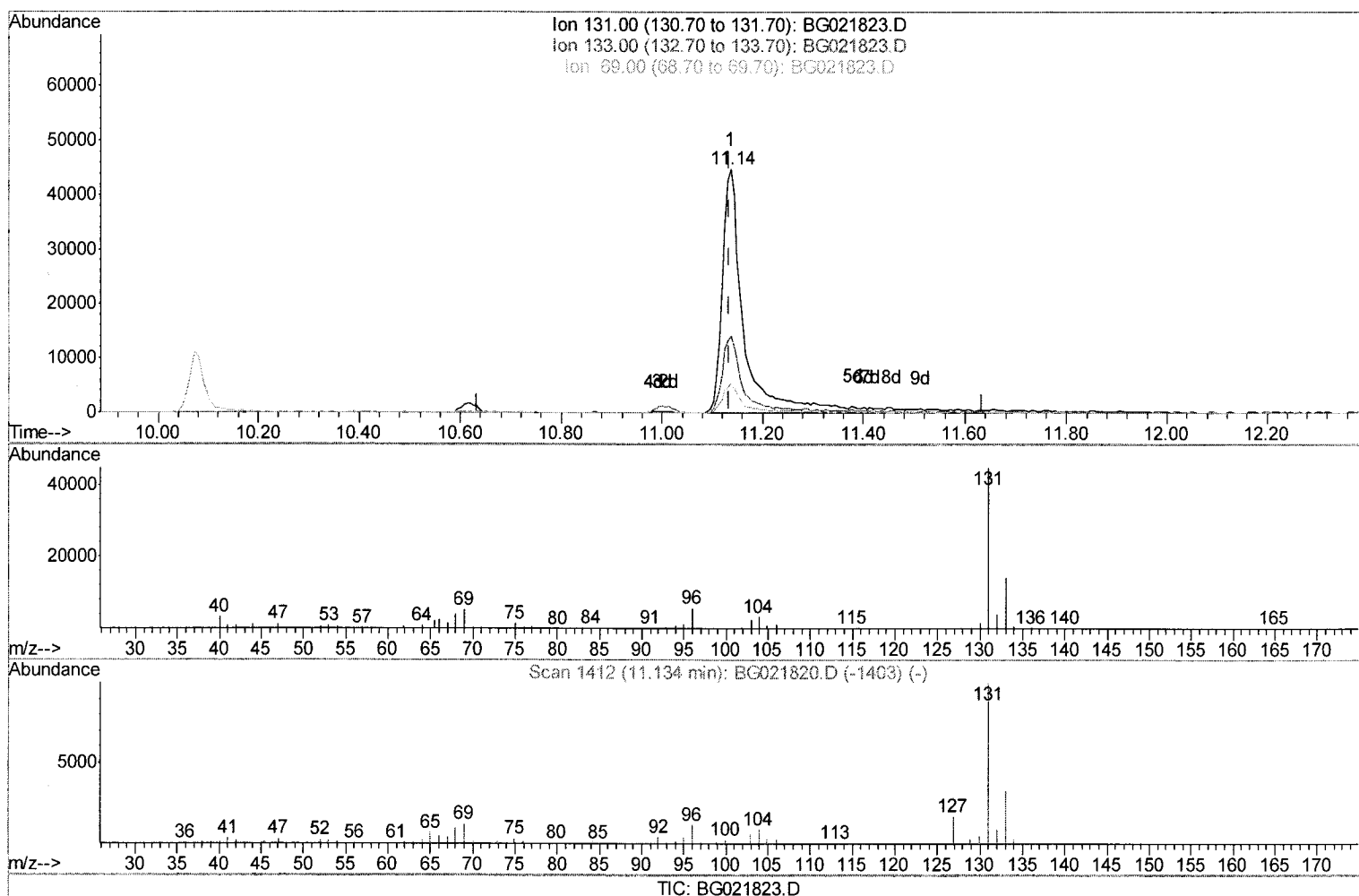
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

11.137min (+0.002) 26.31ng/ul m U.M

response 130438

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 131.00 | 100   | 100    |
| 133.00 | 34.60 | 31.51  |
| 69.00  | 23.00 | 11.83# |
| 0.00   | 0.00  | 0.00   |

05/13/16

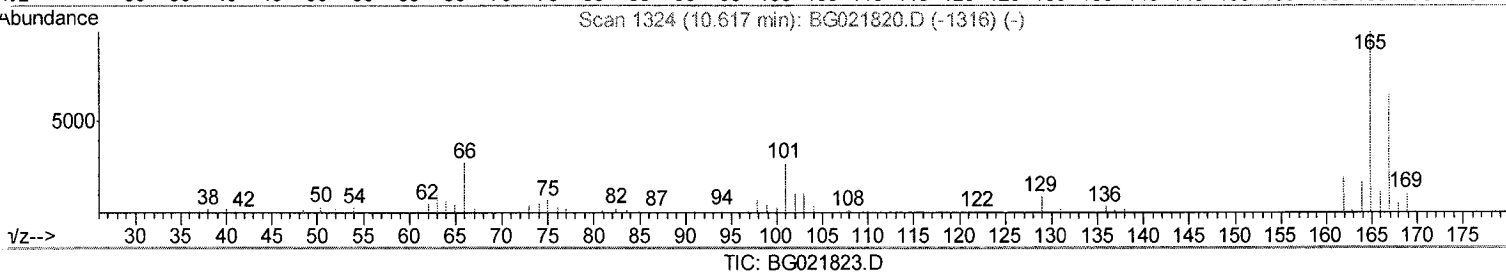
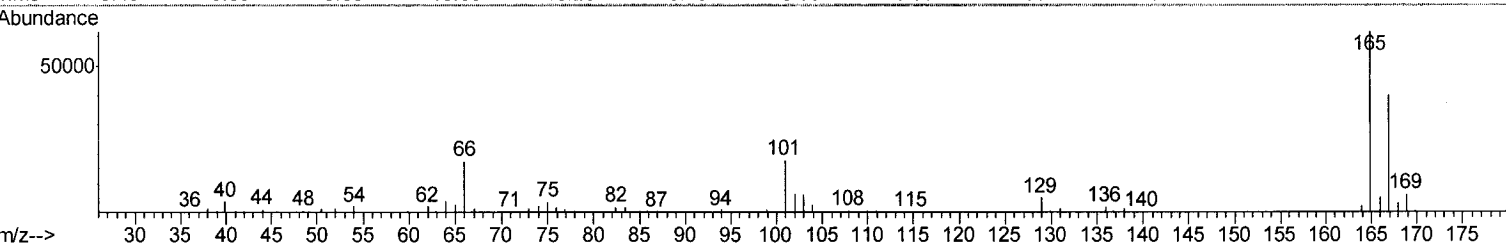
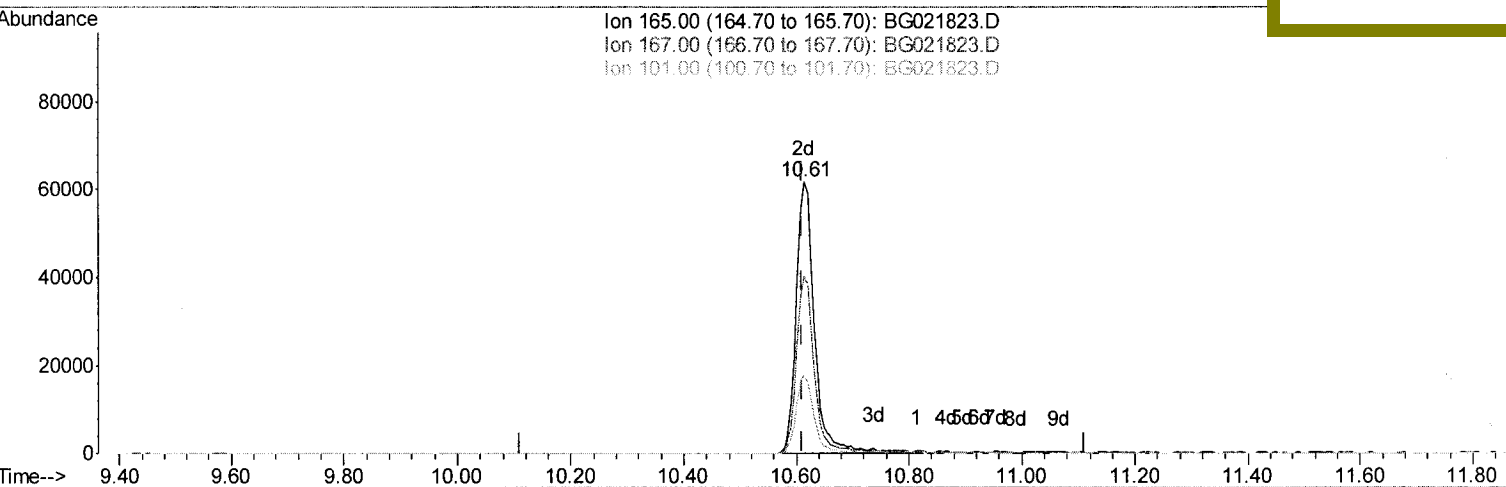
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM



(26) 2,4-Dichlorophenol-d3 (S)

10.614min (+0.002) 29.91ng/ul m

response 137676

Ion Exp% Act%

165.00 100 100

167.00 66.50 65.13

101.00 41.00 29.06#

0.00 0.00 0.00

U.M  
05/13/16

# Quantitation Report (Qedit)

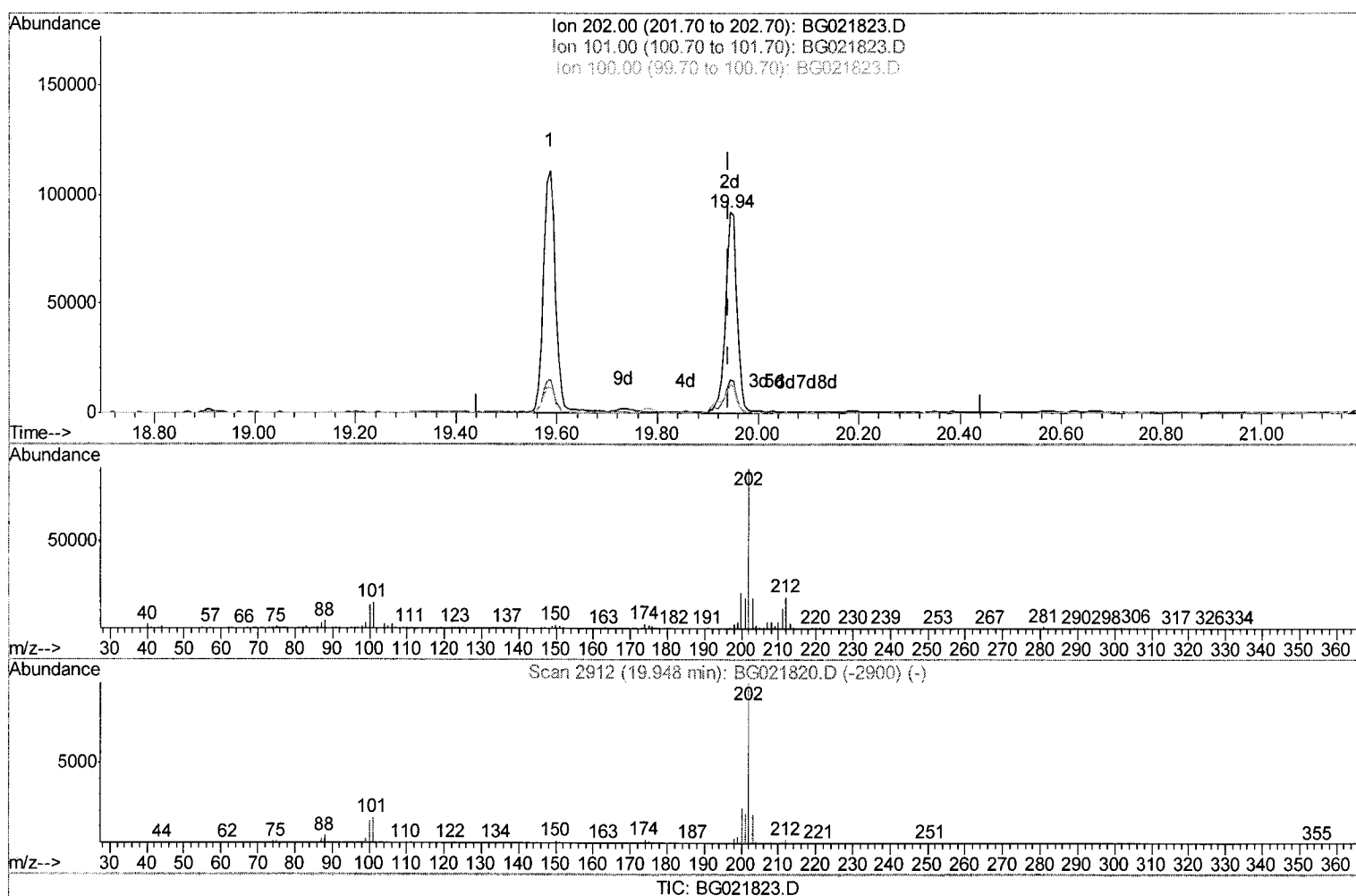
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



(78) Pyrene

19.944min (+0.002) 5.80ng/ul m

response 152429

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.30 | 16.20# |
| 100.00 | 11.60 | 14.49# |
| 0.00   | 0.00  | 0.00   |

U.M  
 05/13/16

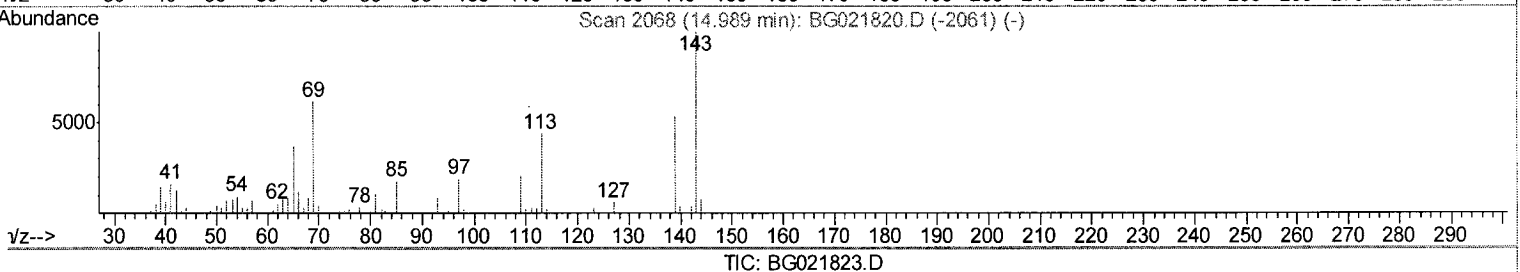
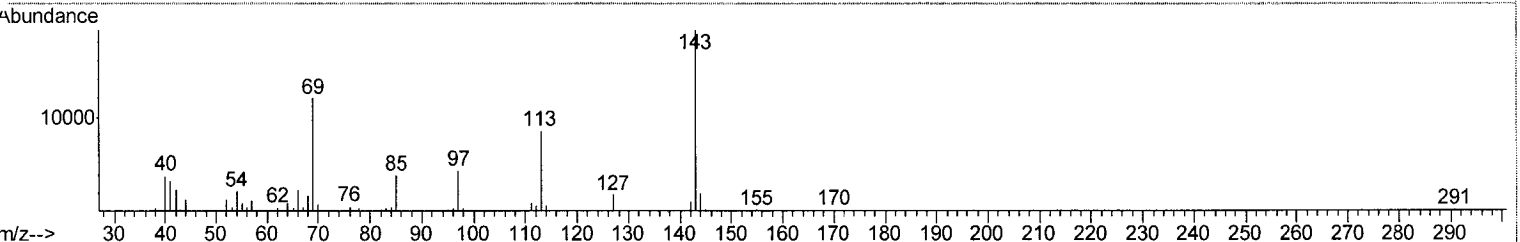
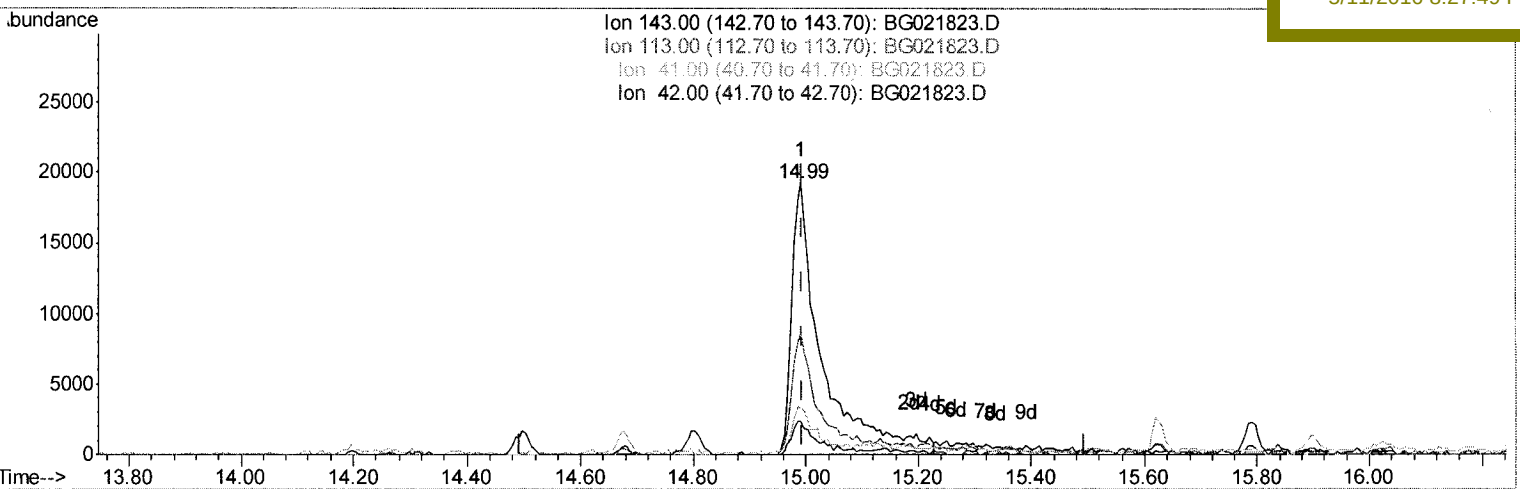
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration



TIC: BG021823.D

(52) 4-Nitrophenol-d4 (S)

14.991min (-0.004) 26.13ng/ul m

response 72096

Ion Exp% Act%

143.00 100 100

113.00 102.70 44.55#

41.00 49.70 17.32#

42.00 33.70 12.15#

U.M  
05/13/16

## Quantitation Report (Qedit)

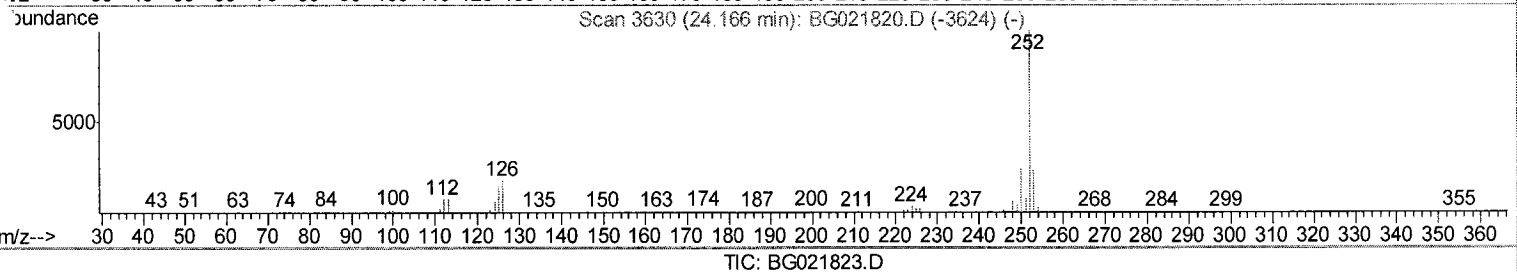
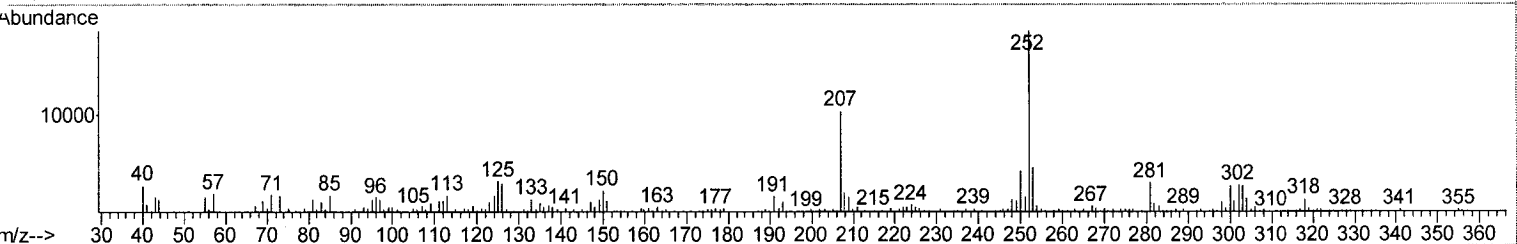
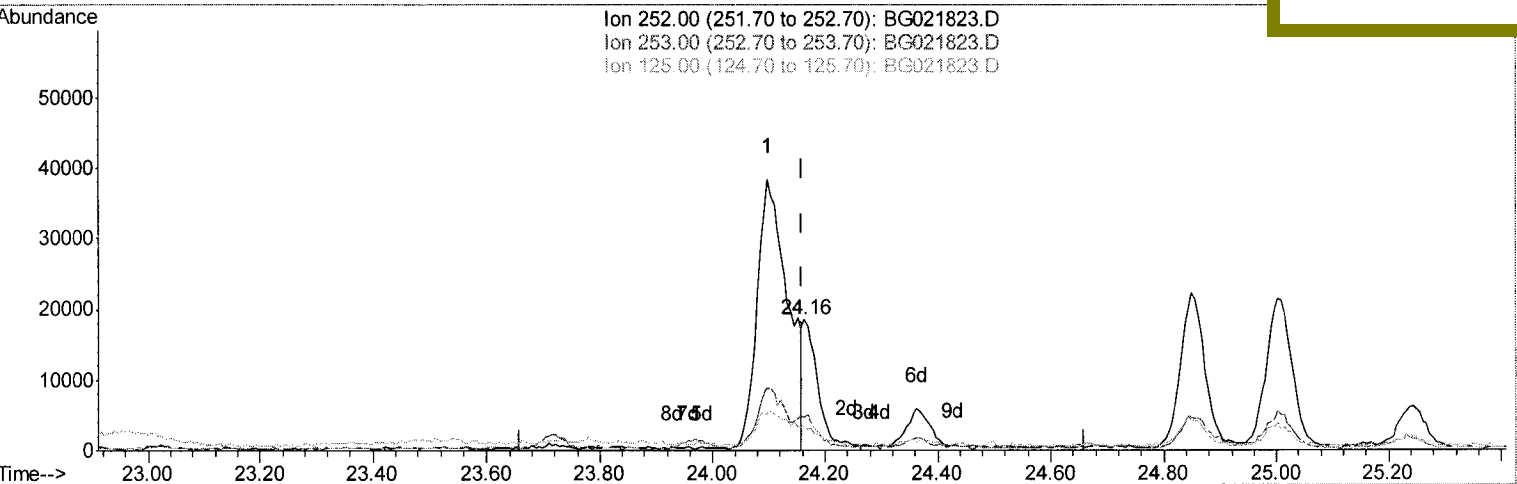
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration



(87) Benzo(k)fluoranthene

24.163min (+0.002) 1.29ng/ul m

response 35512

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 25.00  |
| 125.00 | 9.60  | 17.68# |
| 0.00   | 0.00  | 0.00   |

U.M  
05/13/16



# Quantitation Report (Qedit)

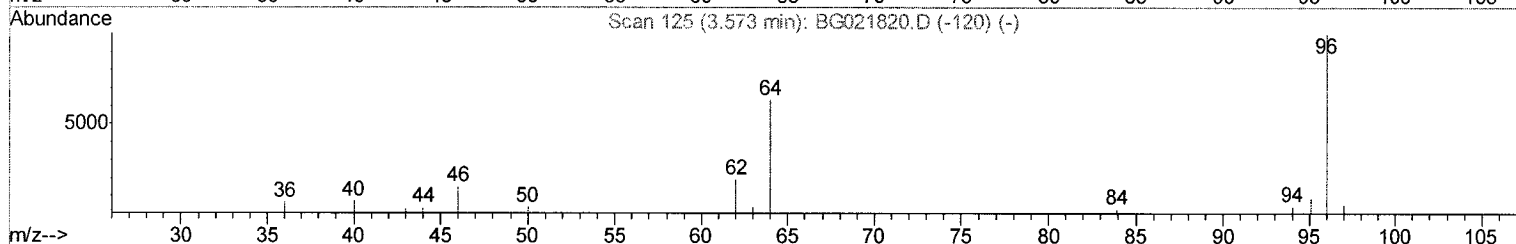
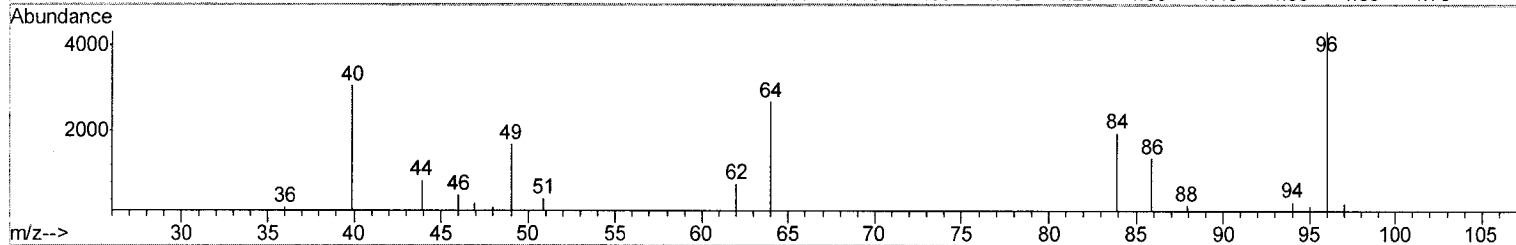
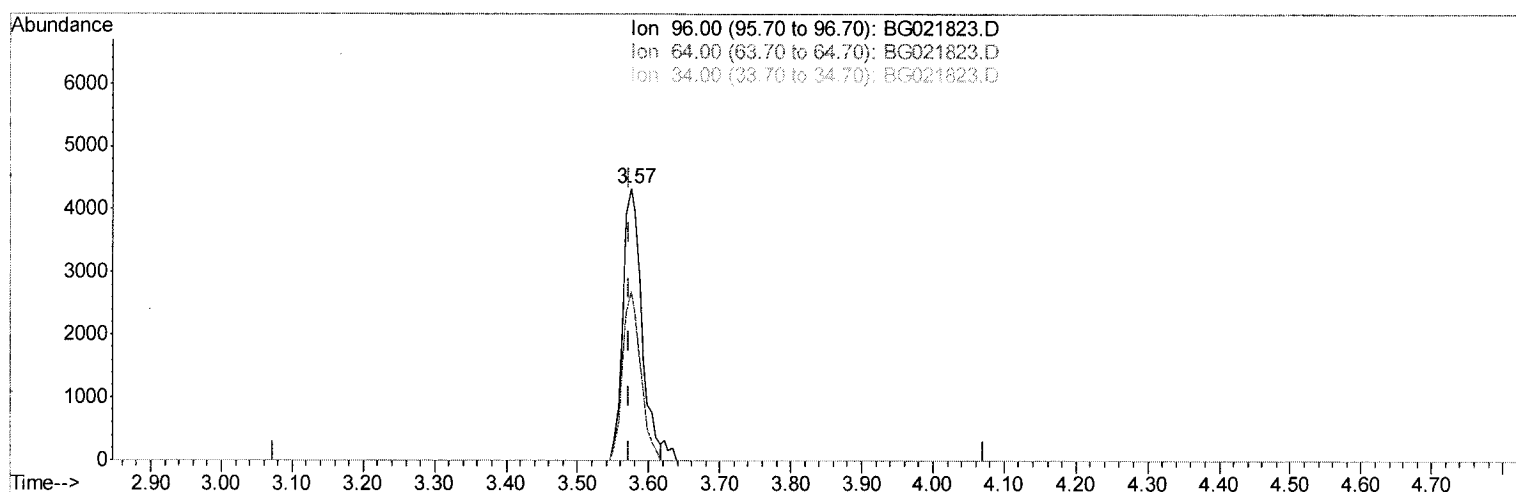
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



TIC: BG021823.D

(3) 1,4-Dioxane-d8 (S)

3.575min (+0.002) 5.01ng/uL

response 7906

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 96.00 | 100   | 100   |
| 64.00 | 66.20 | 62.31 |
| 34.00 | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

# Quantitation Report (Qedit)

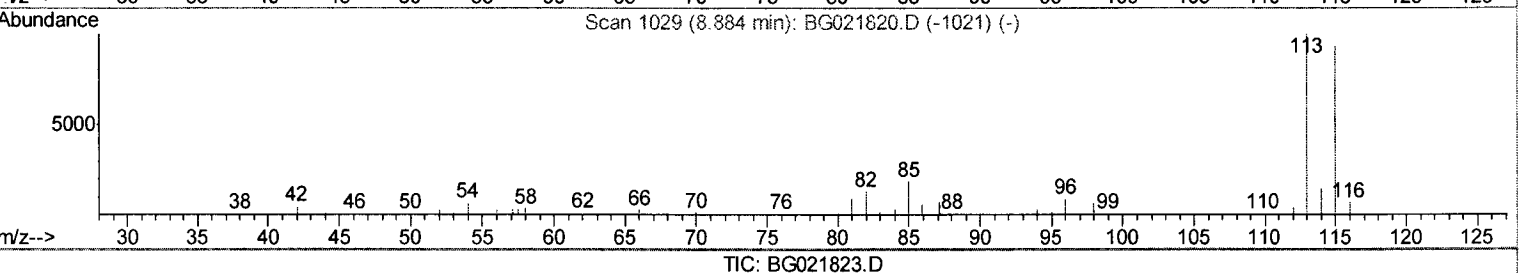
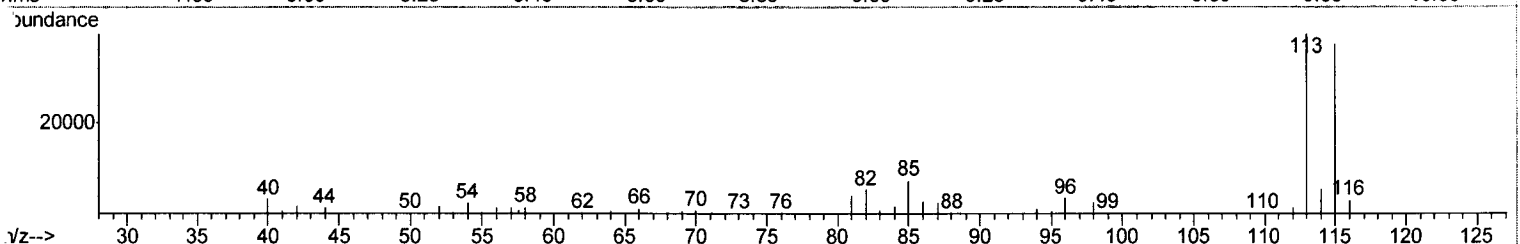
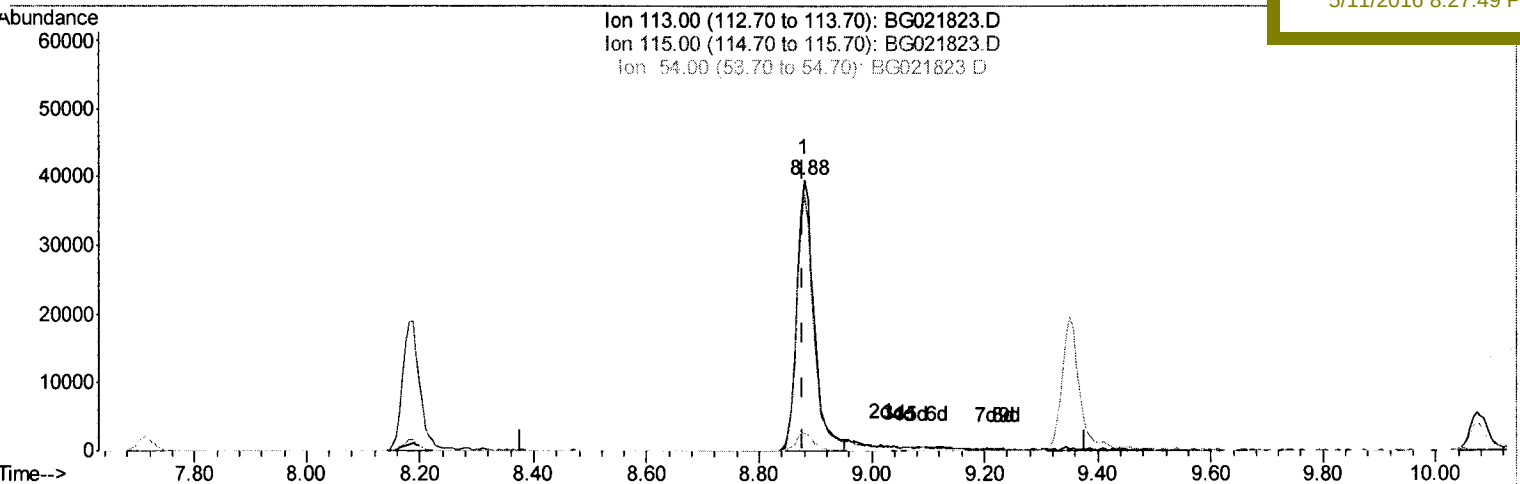
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM



(13) 4-Methylphenol-d8 (S)

8.880min (+0.002) 17.64ng/ul

response 83788

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 113.00 | 100   | 100   |
| 115.00 | 93.40 | 94.78 |
| 54.00  | 18.70 | 6.39# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

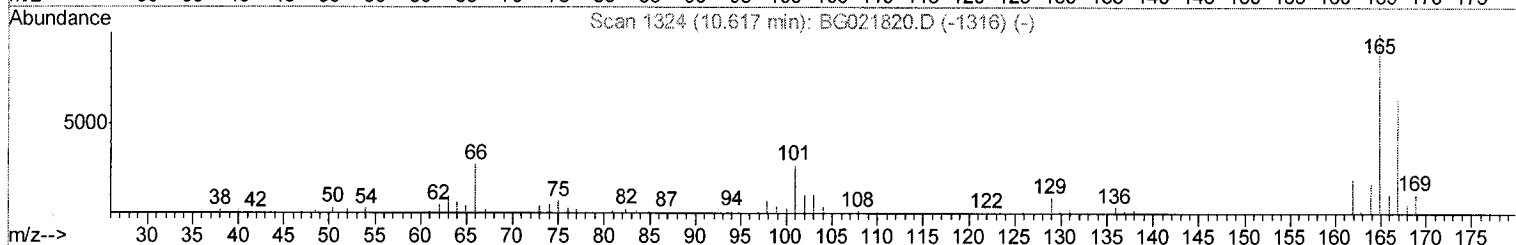
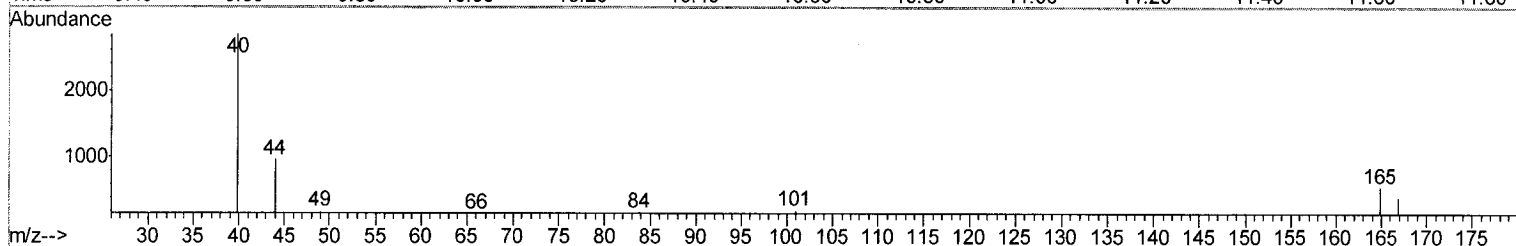
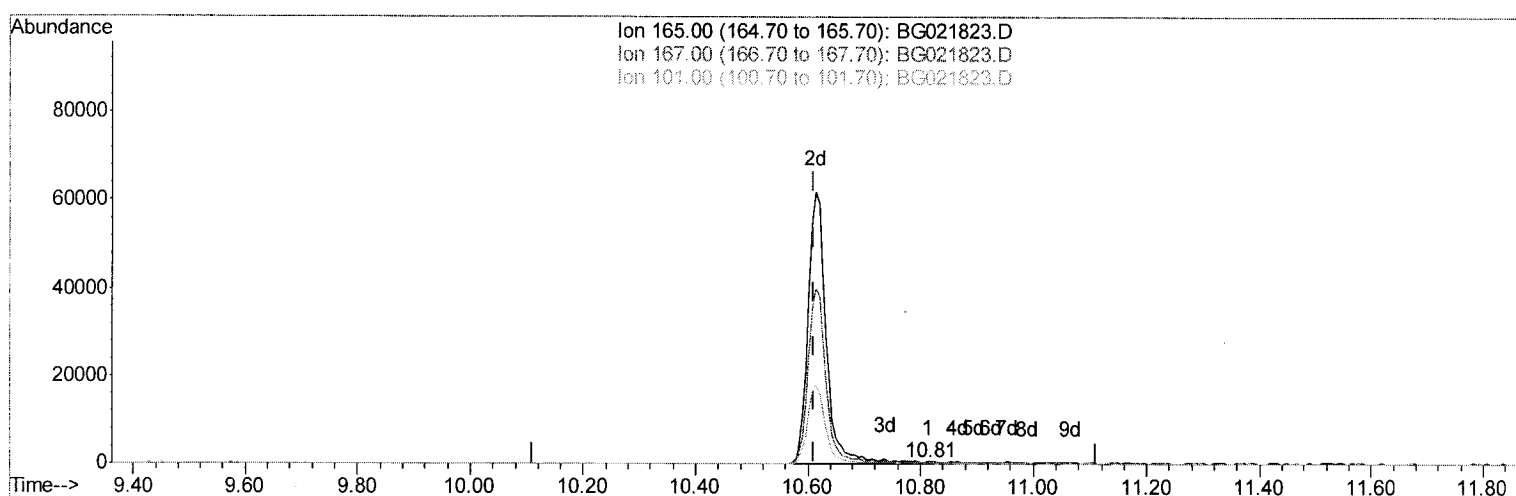
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



TIC: BG021823.D

(26) 2,4-Dichlorophenol-d3 (S)

10.814min (+0.202) 0.09ng/ul

response 393

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 165.00 | 100   | 100   |
| 167.00 | 66.50 | 70.23 |
| 101.00 | 41.00 | 37.08 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

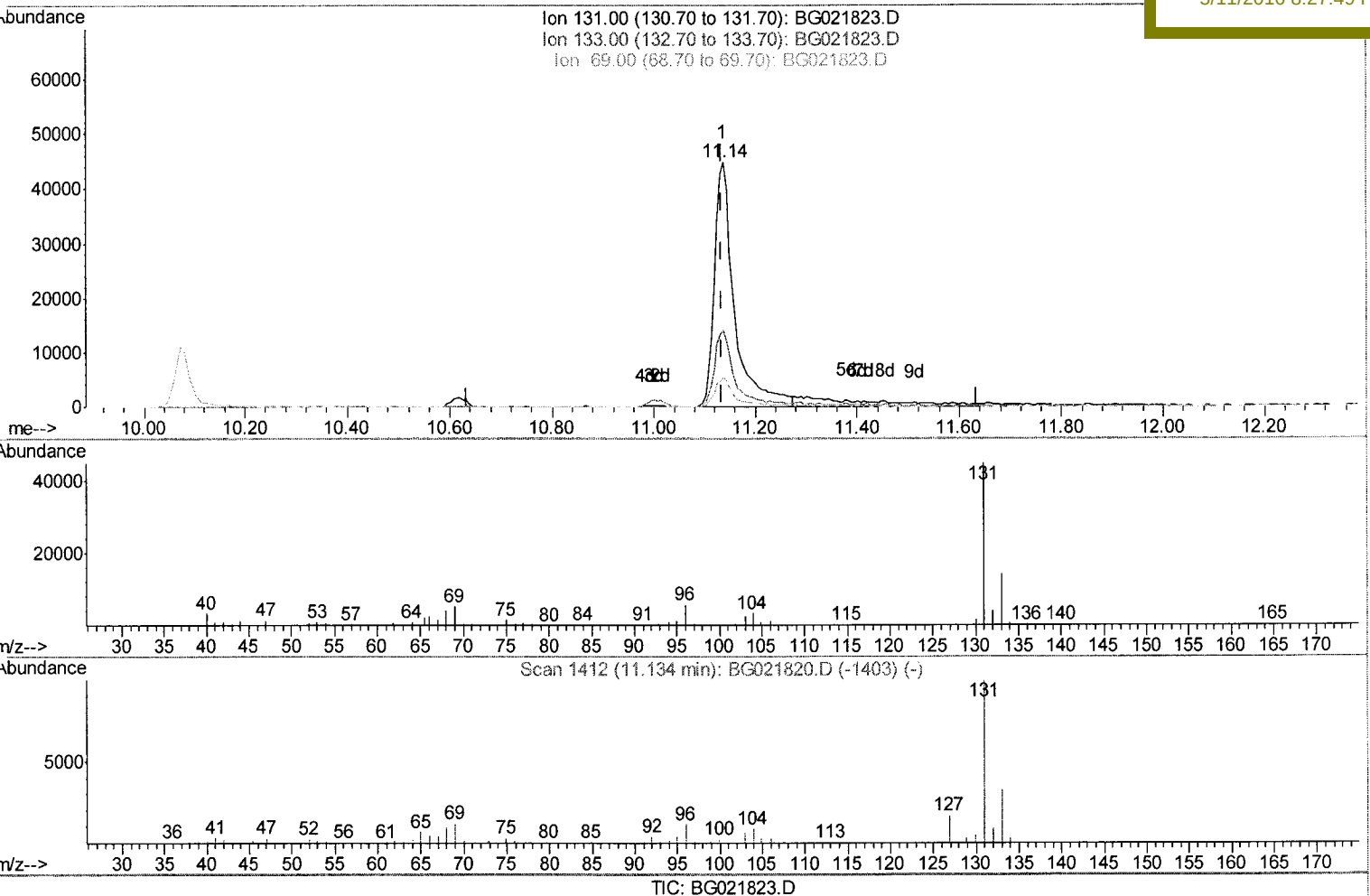
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



(29) 4-Chloroaniline-d4 (S)

11.137min (+0.002) 24.64ng/ul

response 122180

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 131.00 | 100   | 100    |
| 133.00 | 34.60 | 31.51  |
| 69.00  | 23.00 | 11.83# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

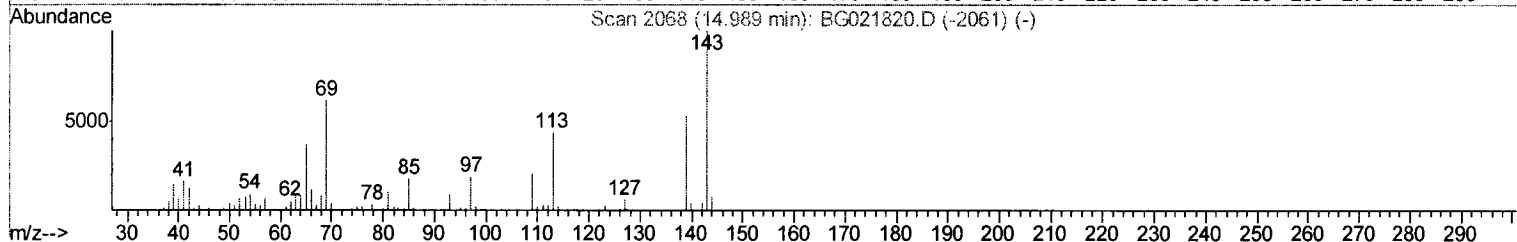
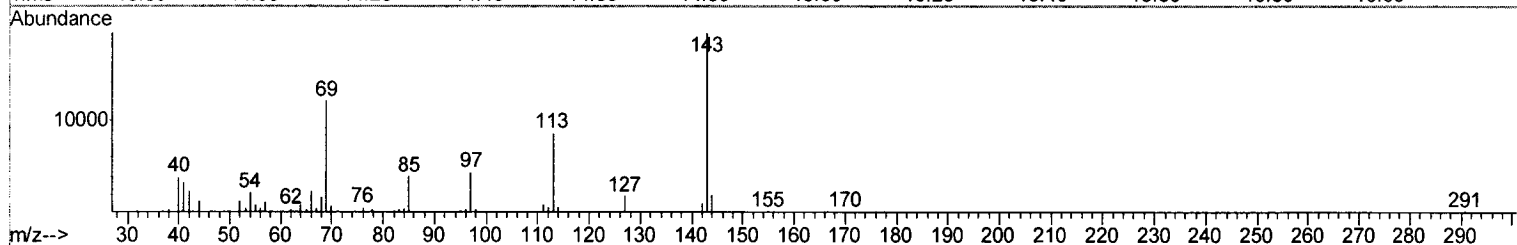
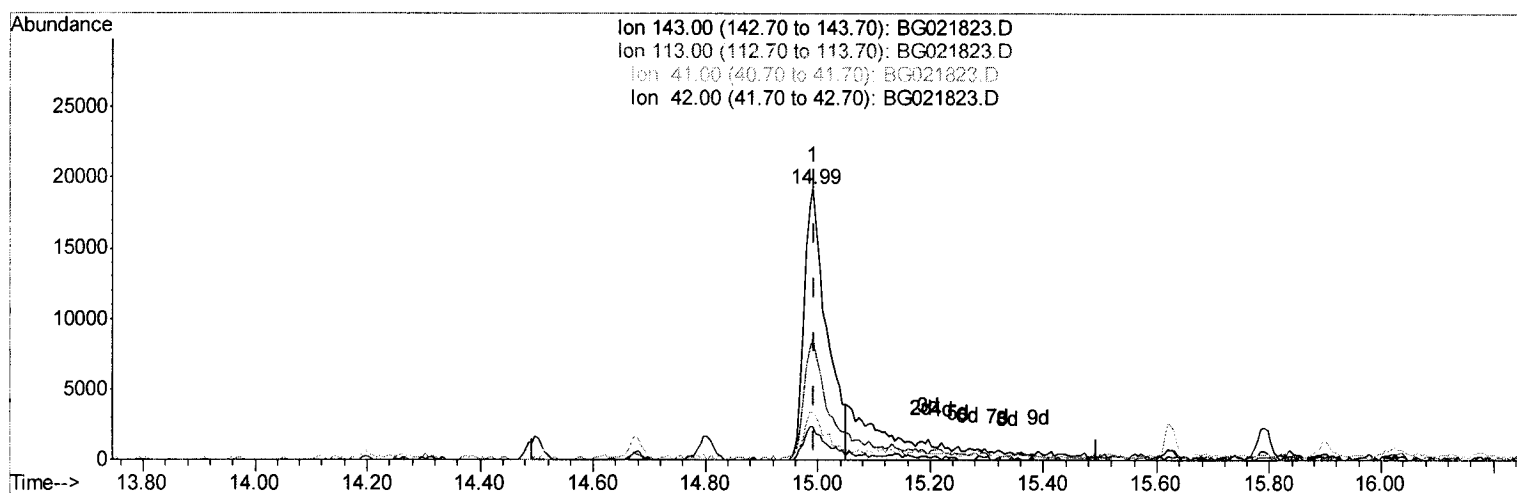
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



TIC: BG021823.D

(52) 4-Nitrophenol-d4 (S)

14.991min (-0.004) 19.28ng/ul

response 53194

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 143.00 | 100    | 100    |
| 113.00 | 102.70 | 44.55# |
| 41.00  | 49.70  | 17.32# |
| 42.00  | 33.70  | 12.15# |

## Quantitation Report (Qedit)

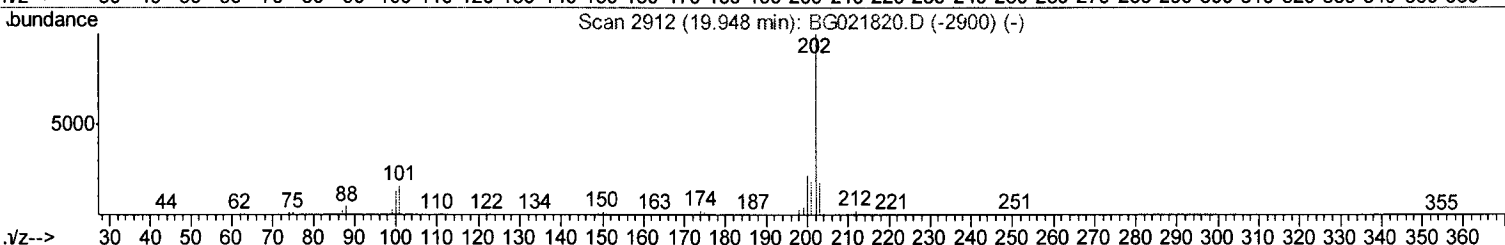
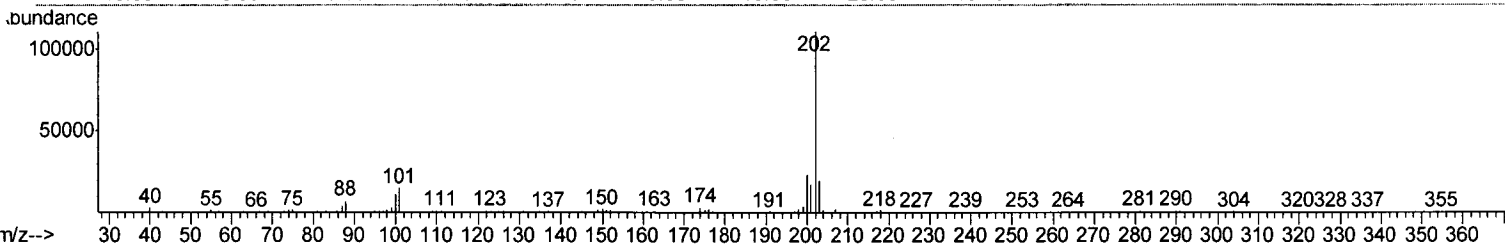
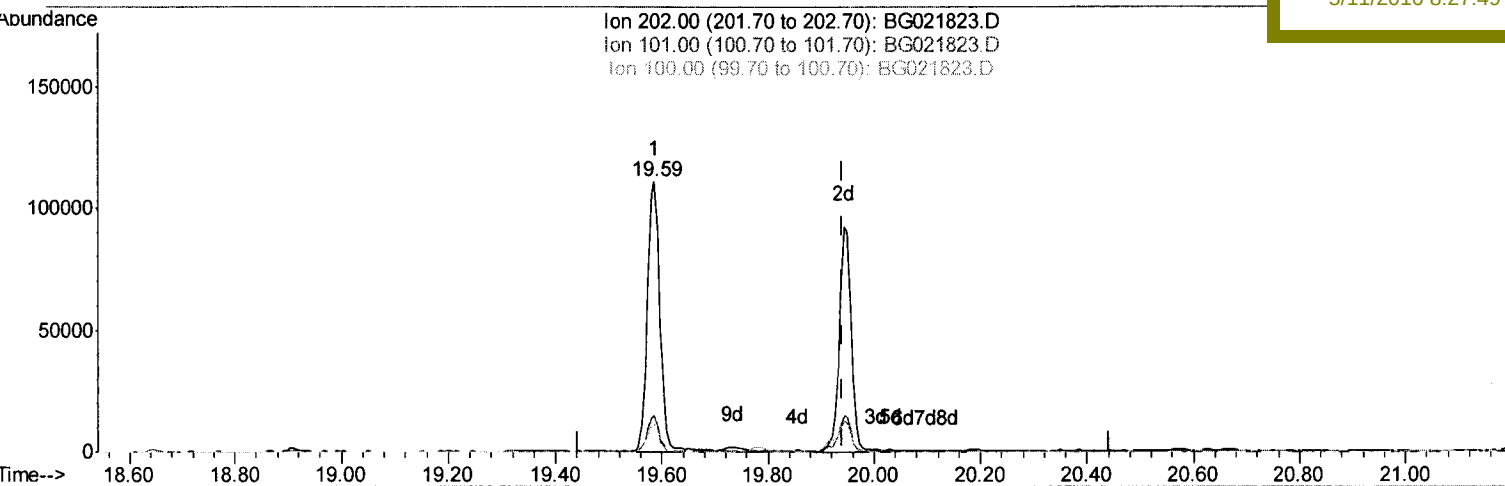
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
Data File : BG021823.D  
Acq On : 10 May 2016 19:22  
Operator : UM/SJ  
Sample : H2938-13  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9XB1

Quant Time: May 11 20:00:58 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration

Manual Integrations  
APPROVED

sohil  
5/11/2016 8:27:49 PM



TIC: BG021823.D

(78) Pyrene

19.586min (-0.356) 6.90ng/ul

response 181208

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.30 | 13.54 |
| 100.00 | 11.60 | 10.62 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

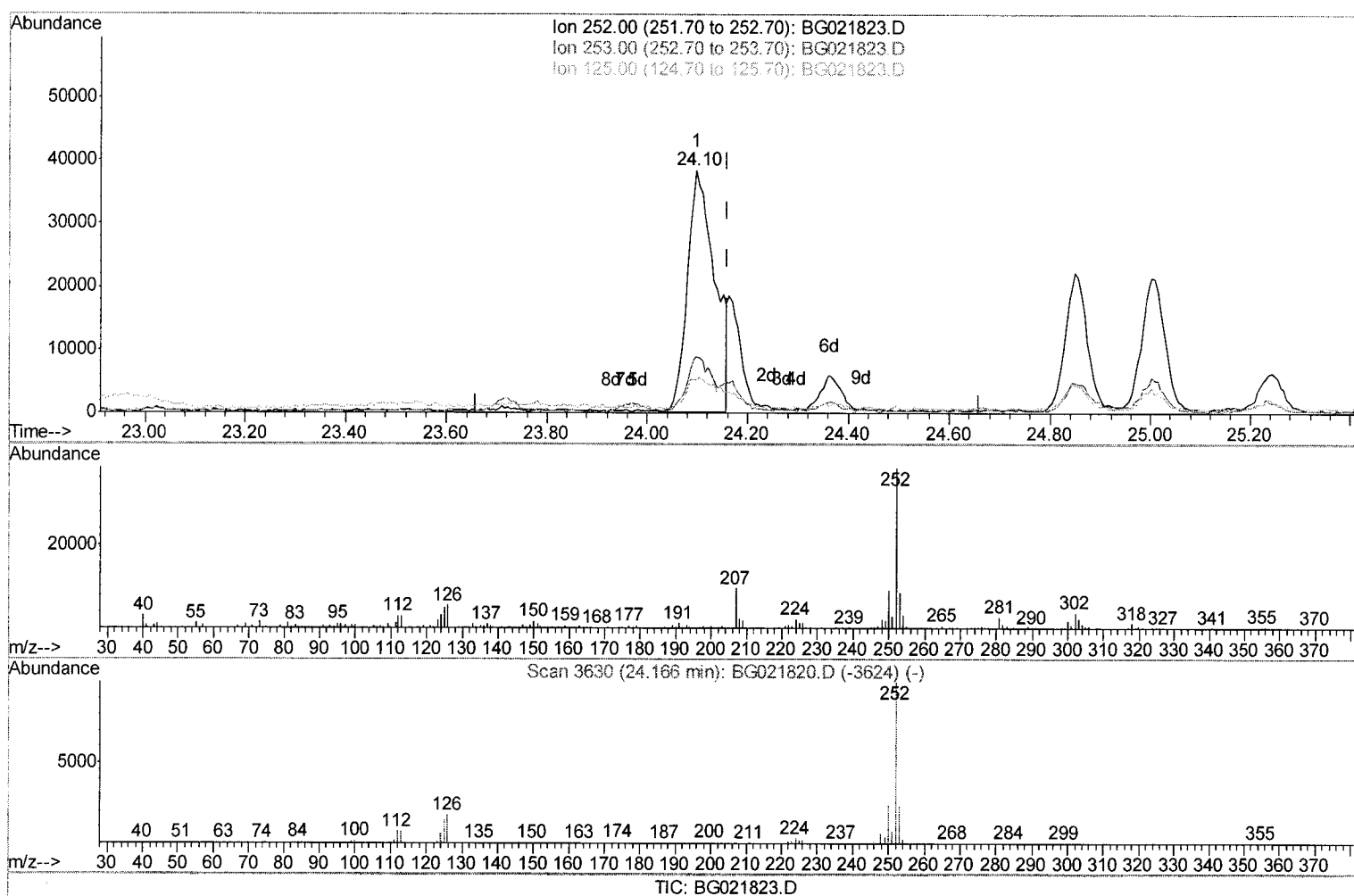
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 20:00:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration



(87) Benzo(k)fluoranthene  
 24.098min (-0.062) 5.21ng/ul  
 response 143131

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 22.30 | 23.02  |
| 125.00 | 9.60  | 13.60# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG051016\  
 Data File : BG021823.D  
 Acq On : 10 May 2016 19:22  
 Operator : UM/SJ  
 Sample : H2938-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XB1

Manual Integrations  
 APPROVED

sohil  
 5/11/2016 8:27:49 PM

Quant Time: May 11 05:41:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.18  | 152  | 76204    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.00 | 136  | 391994   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.80 | 164  | 229180   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.54 | 188  | 469433   | 20.00 | ng/ul | 0.00     |
| 76) Chrysene-d12          | 21.83 | 240  | 453878   | 20.00 | ng/ul | 0.00     |
| 84) Perylene-d12          | 25.16 | 264  | 448177   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.57  | 96  | 8138m   | 5.16  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.33  | 99  | 150289  | 26.58 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl) ether-d | 7.50  | 67  | 76983   | 27.46 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.71  | 132 | 139401  | 31.76 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.88  | 113 | 87245m  | 18.37 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.35  | 128 | 73922   | 28.68 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.07 | 143 | 72503   | 44.54 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.61 | 165 | 137676m | 29.91 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.14 | 131 | 130438m | 26.31 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.20 | 166 | 463018  | 28.76 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.50 | 160 | 625890  | 27.39 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.99 | 143 | 72096m  | 26.13 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.79 | 176 | 429134  | 25.32 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 45850   | 35.26 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.64 | 188 | 578327  | 25.31 | ng/ul | 0.00 |
| 77) Pyrene-d10                 | 19.92 | 212 | 612019  | 28.81 | ng/ul | 0.00 |
| 88) Benzo(a)pyrene-d12         | 24.93 | 264 | 569767  | 26.76 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 45) Dimethylphthalate          | 14.24 | 163 | 92046   | 5.61  | ng/ul  | 99     |
| 70) Phenanthrene               | 17.59 | 178 | 88350   | 3.44  | ng/ul  | 99     |
| 74) Di-n-butylphthalate        | 18.49 | 149 | 1000396 | 48.71 | ng/ul# | 95     |
| 75) Fluoranthene               | 19.59 | 202 | 181208  | 6.21  | ng/ul# | 94     |
| 78) Pyrene                     | 19.94 | 202 | 152429m | 5.80  | ng/ul  |        |
| 81) Benzo(a)anthracene         | 21.81 | 228 | 76594   | 3.03  | ng/ul  | 96     |
| 82) Bis(2-ethylhexyl)phthalate | 21.70 | 149 | 97636   | 10.30 | ng/ul  | 95     |
| 83) Chrysene                   | 21.88 | 228 | 83636   | 3.35  | ng/ul  | 99     |
| 86) Benzo(b)fluoranthene       | 24.10 | 252 | 143131  | 5.58  | ng/ul# | 96     |
| 87) Benzo(k)fluoranthene       | 24.16 | 252 | 35512m  | 1.29  | ng/ul  |        |
| 89) Benzo(a)pyrene             | 25.00 | 252 | 70075   | 2.74  | ng/ul# | 86     |
| 90) Indeno(1,2,3-cd)pyrene     | 28.97 | 276 | 59038   | 1.95  | ng/ul# | 90     |
| 92) Benzo(g,h,i)perylene       | 30.16 | 276 | 46435   | 1.86  | ng/ul# | 83     |

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