

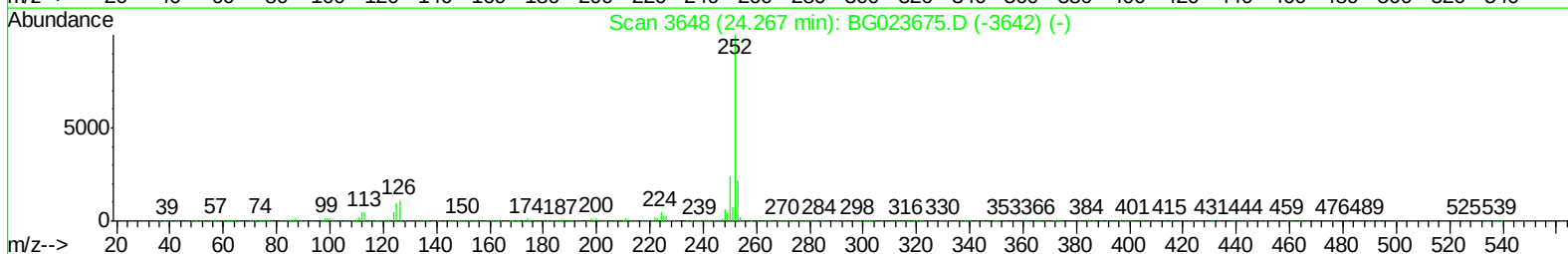
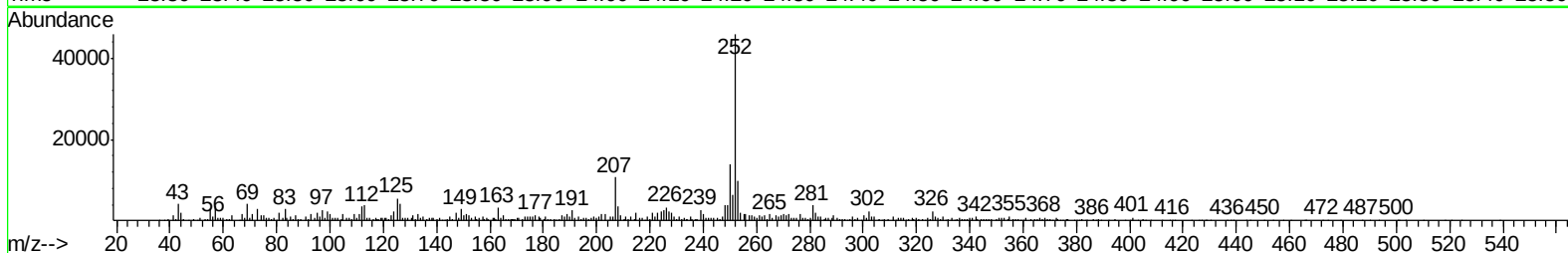
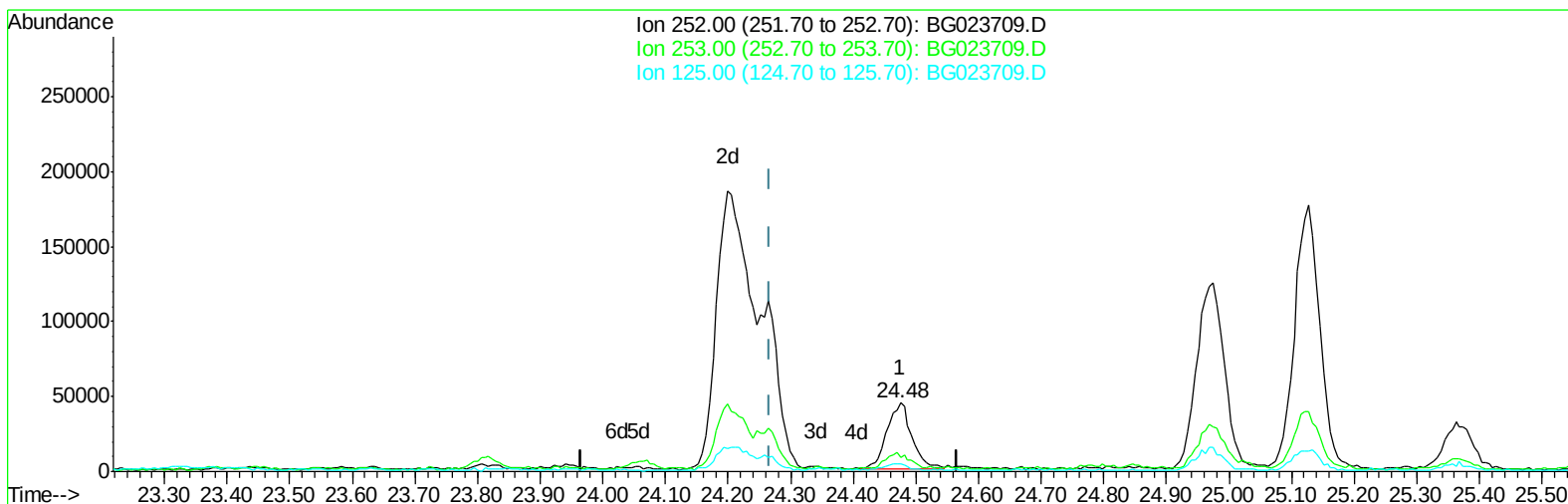
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS002-0612-01

Manual Integrations  
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8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:22:59 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(86) Benzo(k)fluoranthene

24.475min (+0.209) 3.12ng/ul

response 125390

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 19.70 | 21.22 |
| 125.00 | 13.30 | 11.96 |
| 0.00   | 0.00  | 0.00  |

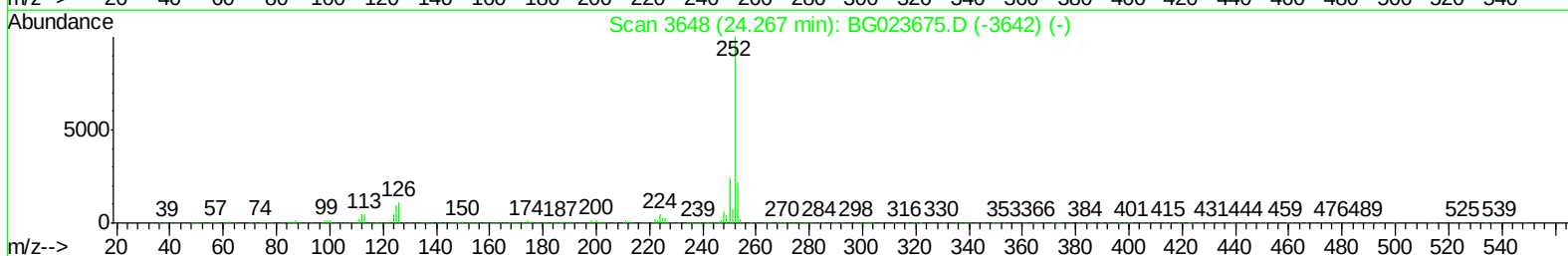
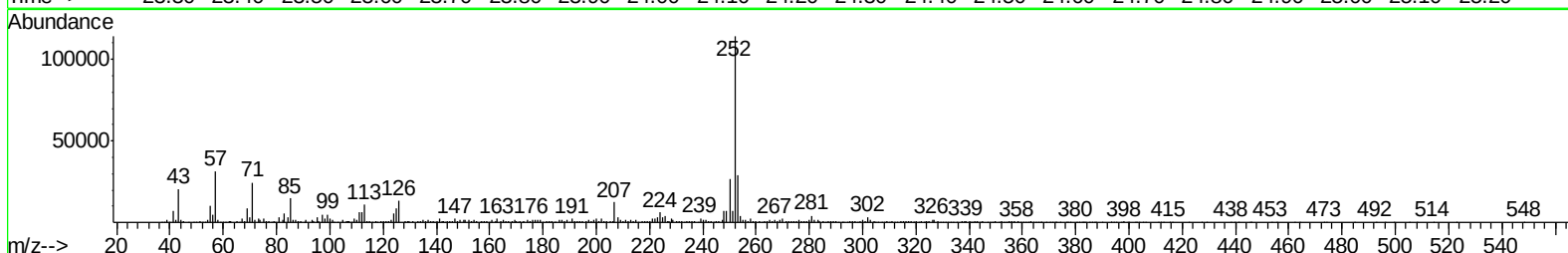
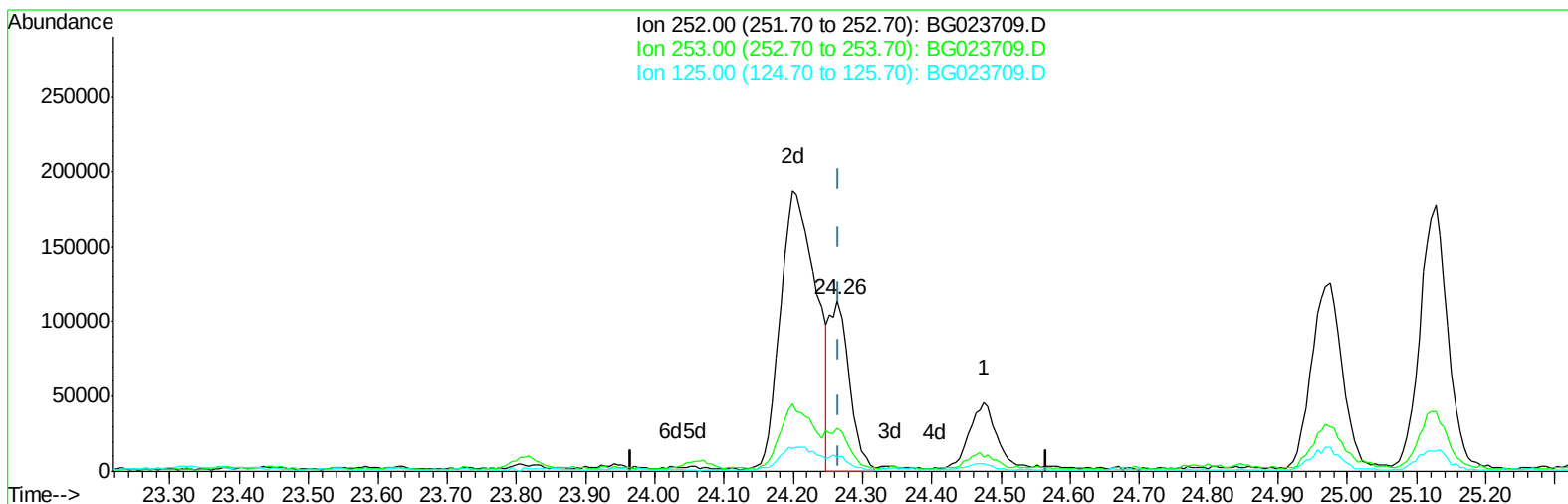
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
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Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
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Instrument :  
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ClientSampleId :  
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Manual Integrations  
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Quant Time: Aug 16 11:22:59 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(86) Benzo(k)fluoranthene

24.264min (-0.003) 5.79ng/ul m

response 232554

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 19.70 | 25.32# |
| 125.00 | 13.30 | 7.97#  |
| 0.00   | 0.00  | 0.00   |

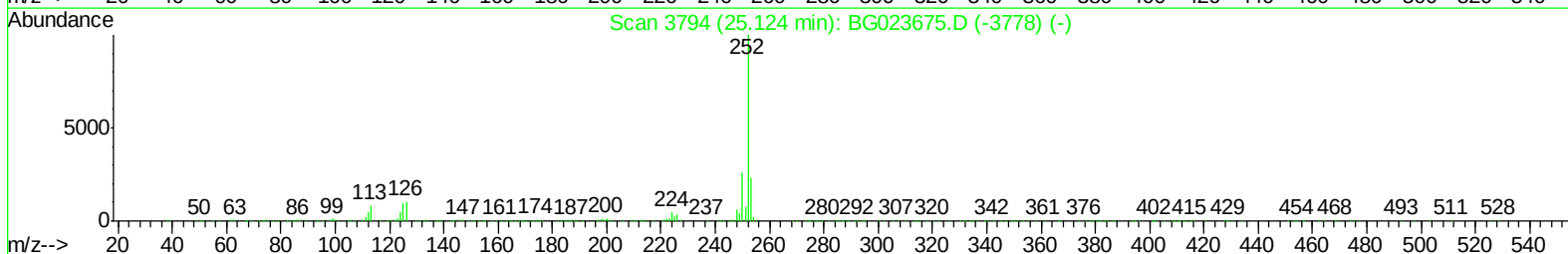
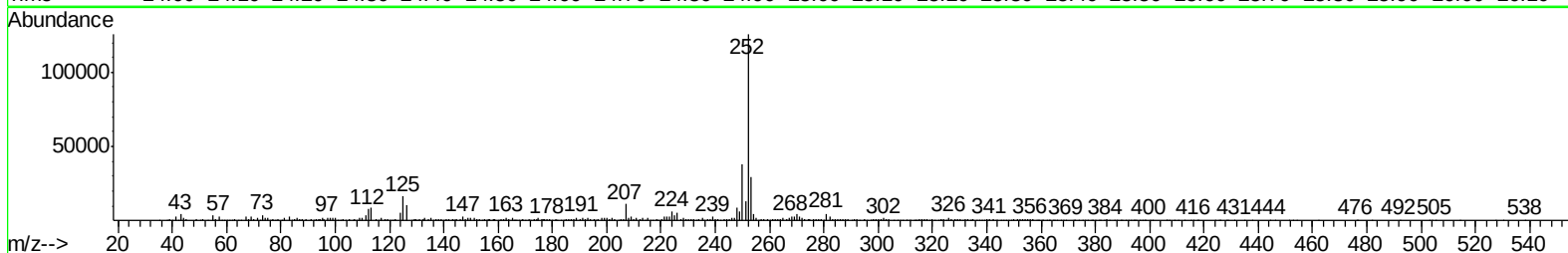
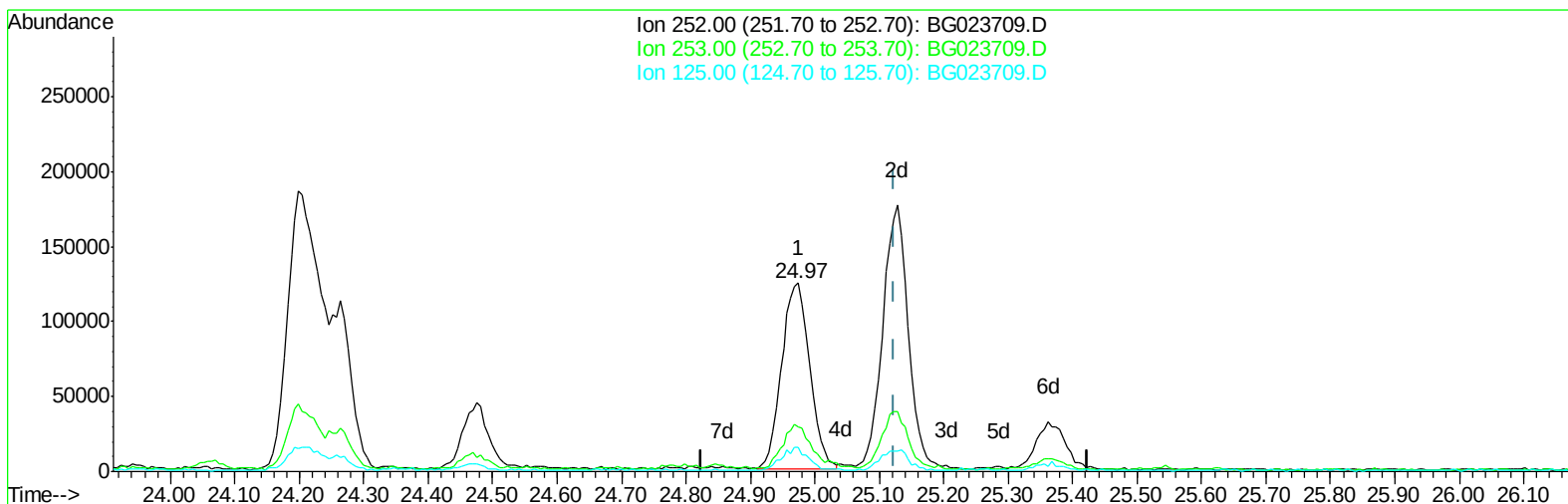
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Manual Integrations  
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Quant Time: Aug 16 11:22:59 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(88) Benzo(a)pyrene (C)

24.975min (-0.150) 9.63ng/ul

response 379278

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 23.70 | 23.40 |
| 125.00 | 15.00 | 13.00 |
| 0.00   | 0.00  | 0.00  |

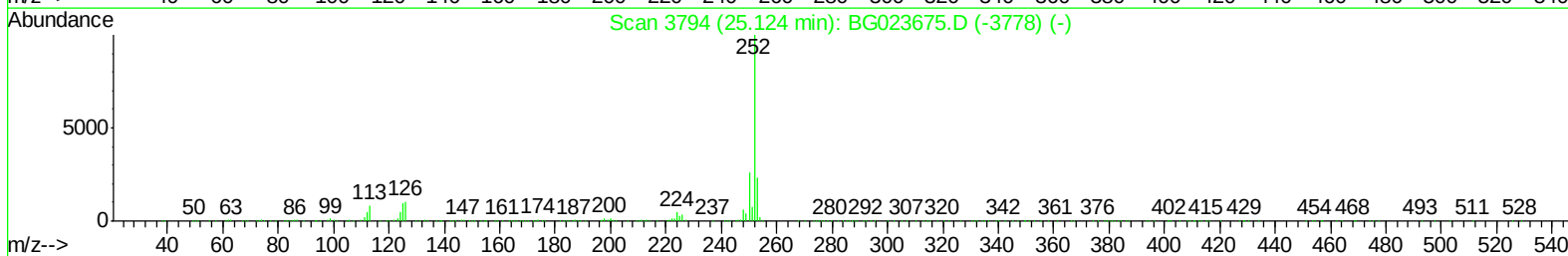
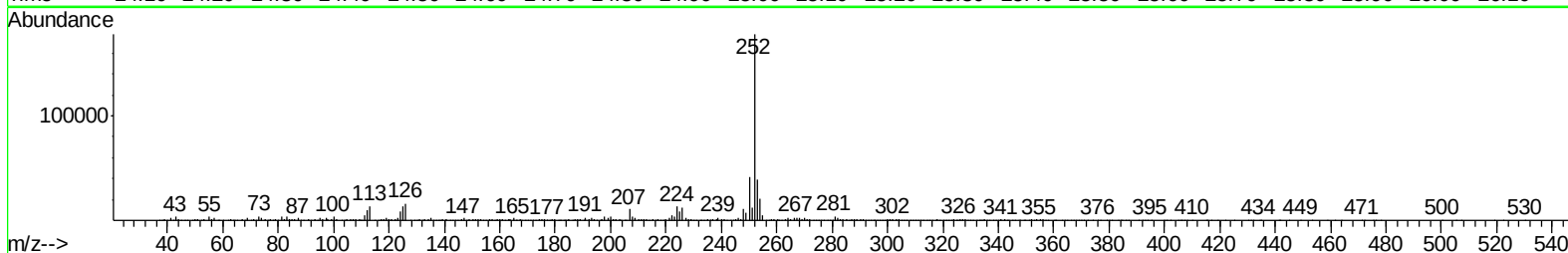
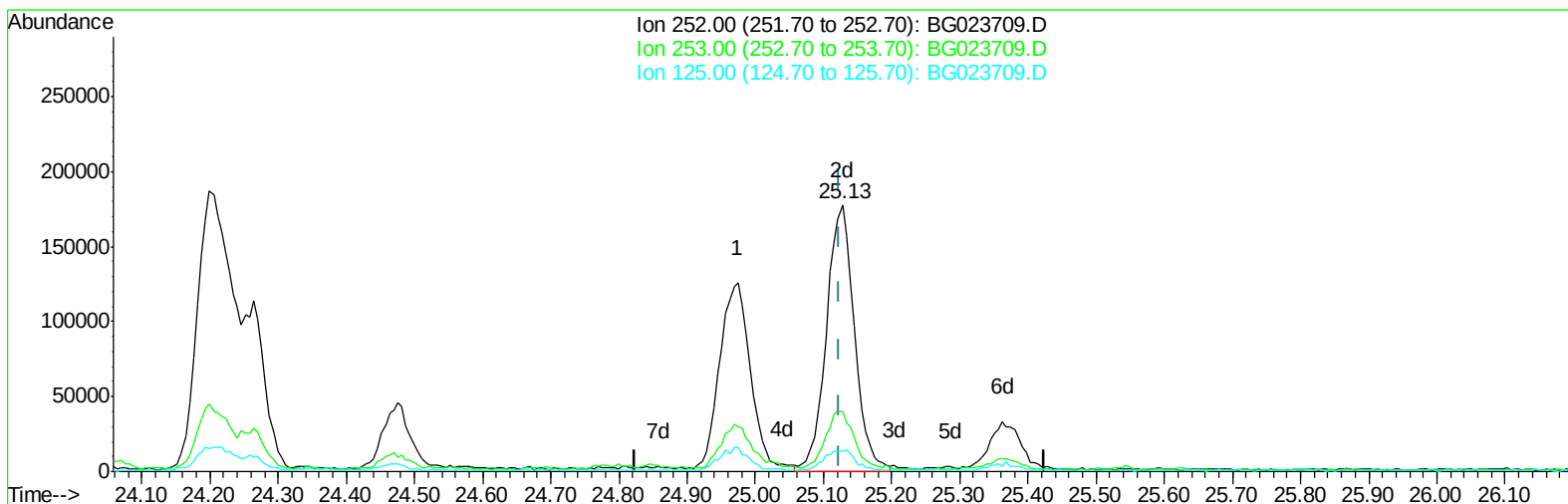
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS002-0612-01

Manual Integrations  
APPROVED

umangi  
8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:22:59 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(88) Benzo(a)pyrene (C)

25.127min (+0.003) 12.84ng/ul m

response 506015

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 23.70 | 22.30 |
| 125.00 | 15.00 | 7.72# |
| 0.00   | 0.00  | 0.00  |

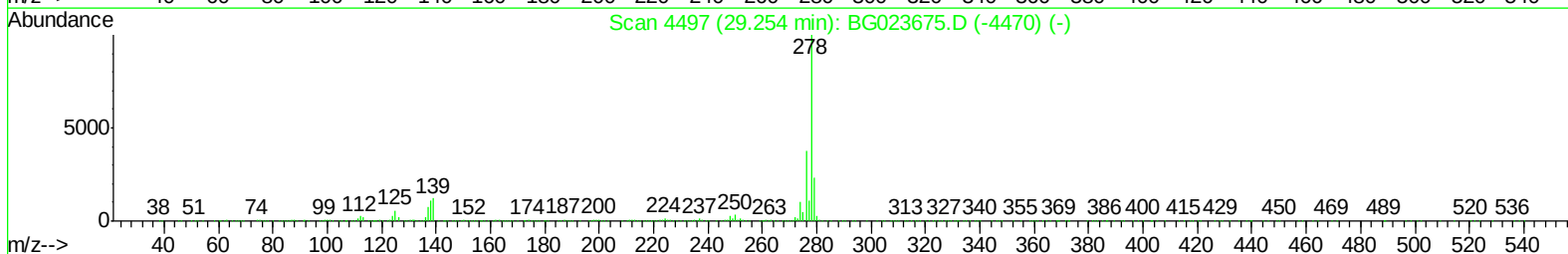
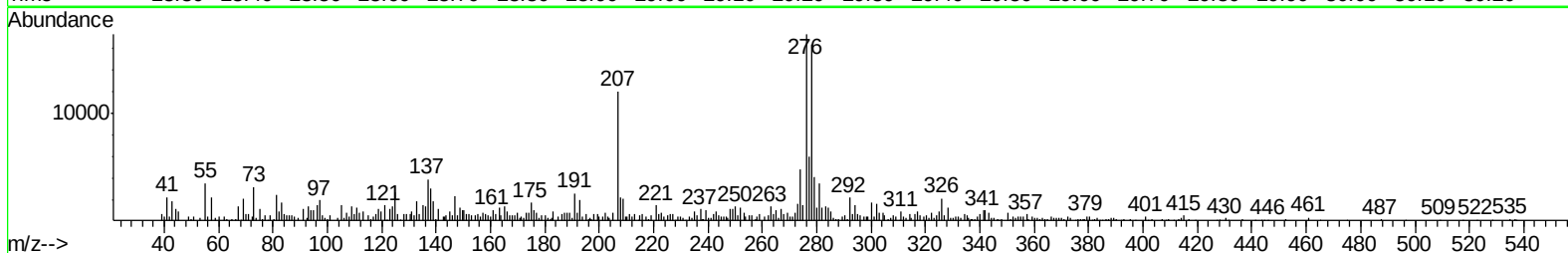
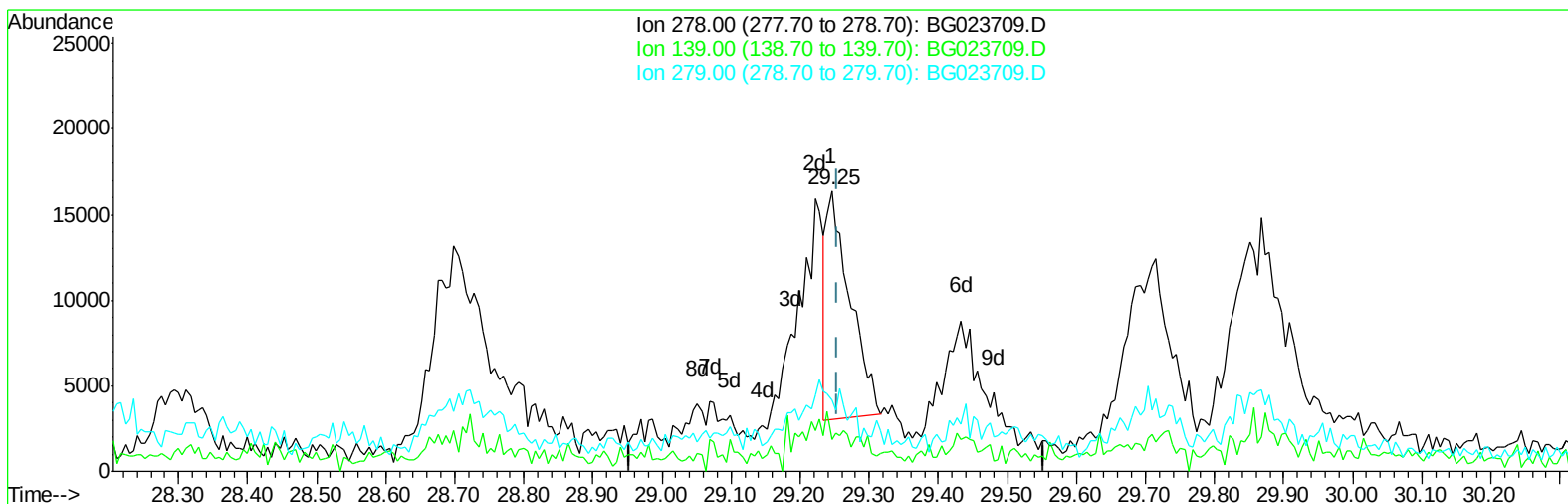
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS002-0612-01

Manual Integrations  
APPROVED

umangi  
8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:22:59 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(90) Dibenzo(a,h)anthracene

29.245min (-0.009) 0.79ng/ul

response 31357

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 20.40 | 11.49# |
| 279.00 | 23.90 | 25.56  |
| 0.00   | 0.00  | 0.00   |

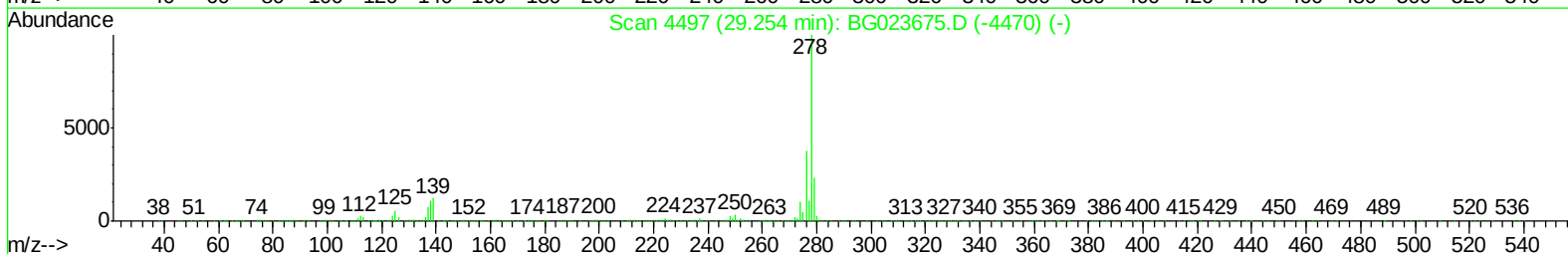
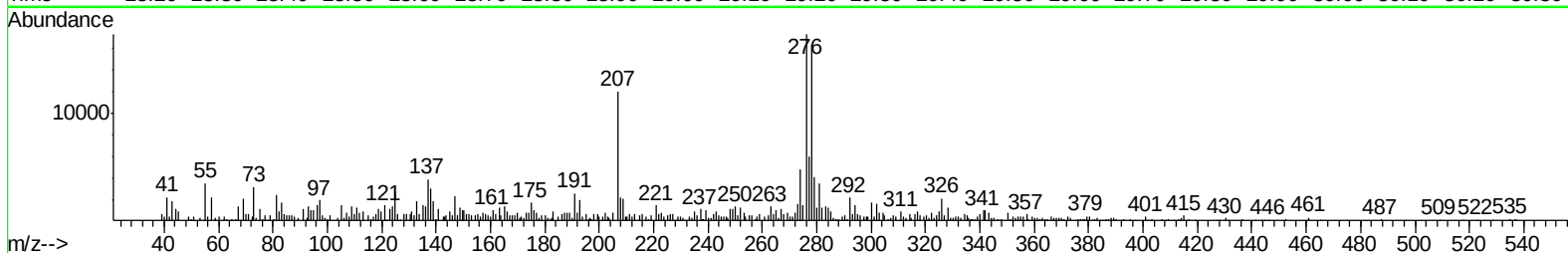
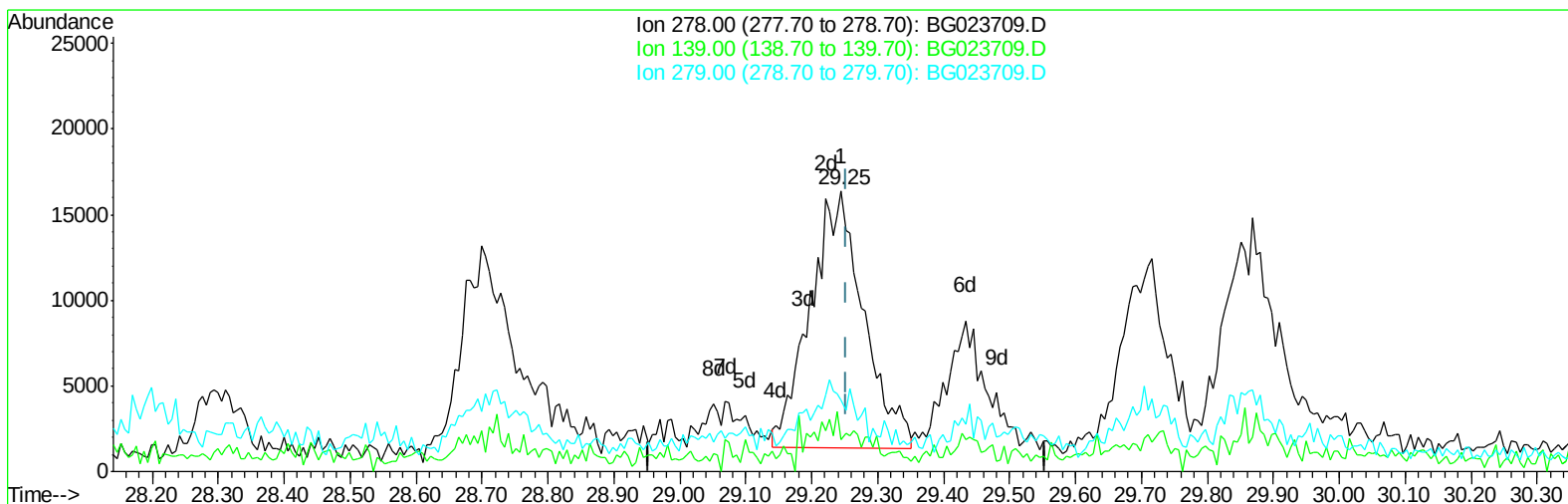
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
 Data File : BG023709.D  
 Acq On : 14 Aug 2016 4:33  
 Operator : UM/SJ  
 Sample : H4388-07  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR002-SS002-0612-01

Manual Integrations  
 APPROVED

umangi  
 8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:22:59 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 06:38:14 2016  
 Response via : Initial Calibration



TIC: BG023709.D

(90) Dibenzo(a,h)anthracene

29.245min (-0.009) 2.12ng/ul m

response 83550

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 20.40 | 11.49# |
| 279.00 | 23.90 | 25.56  |
| 0.00   | 0.00  | 0.00   |

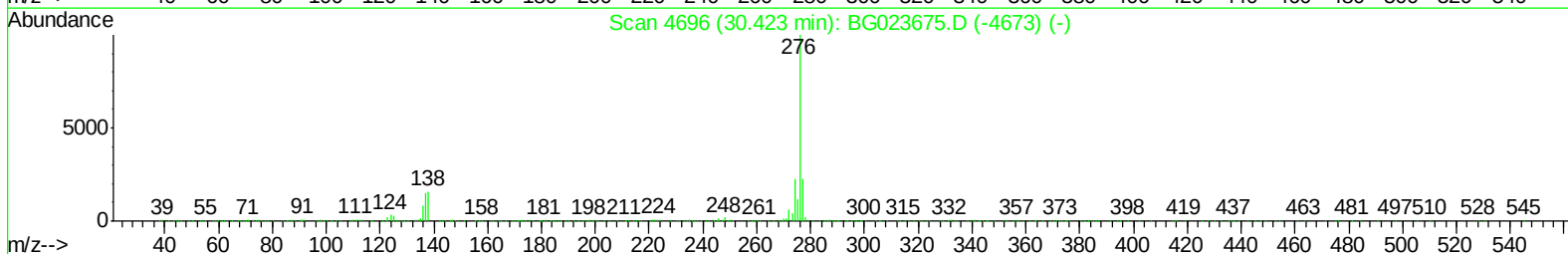
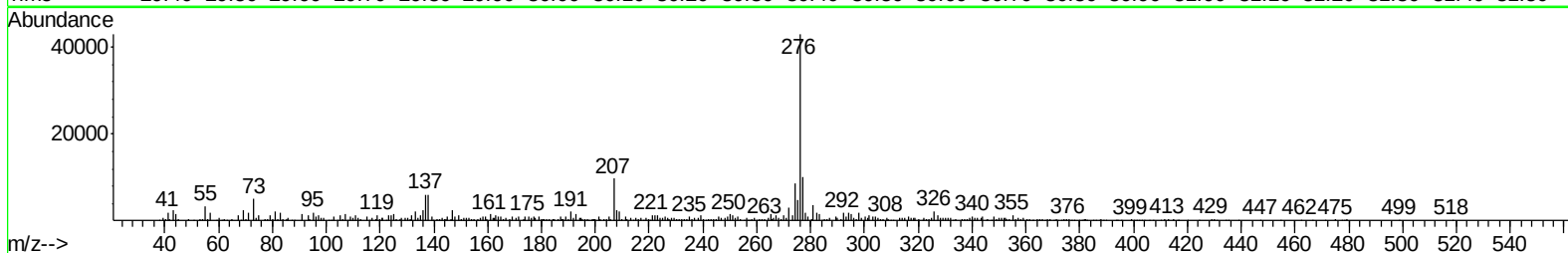
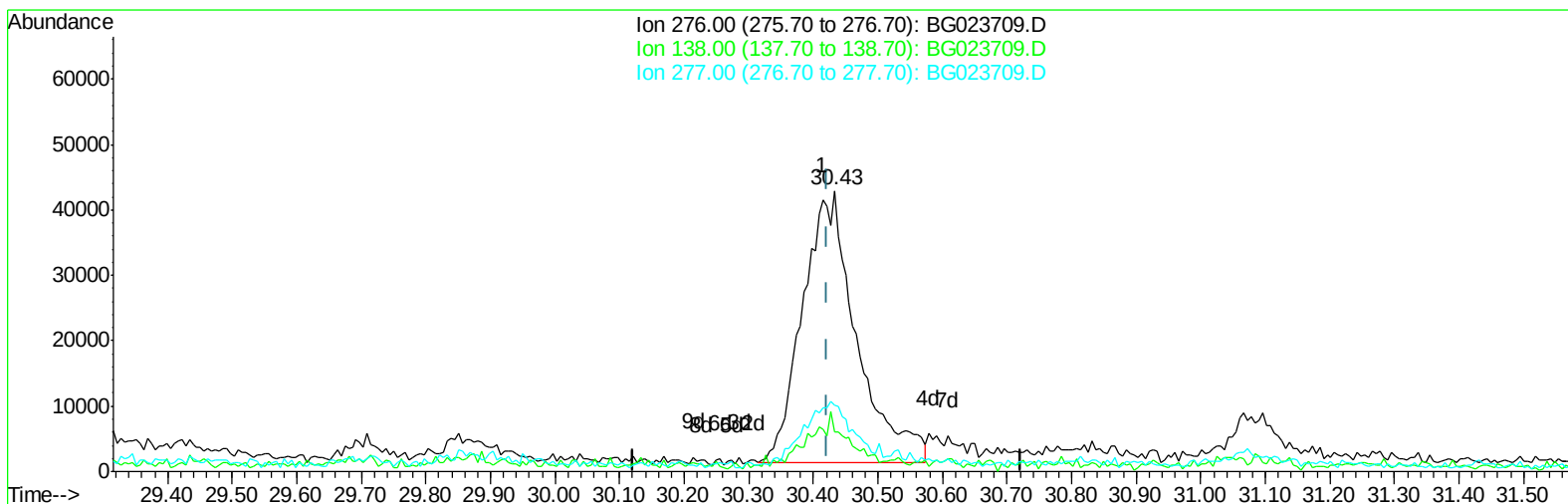
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
 Data File : BG023709.D  
 Acq On : 14 Aug 2016 4:33  
 Operator : UM/SJ  
 Sample : H4388-07  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR002-SS002-0612-01

Manual Integrations  
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Quant Time: Aug 16 11:22:59 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 06:38:14 2016  
 Response via : Initial Calibration



TIC: BG023709.D

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

30.432min (+0.009) 6.34ng/ul m

response 243153

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 27.60 | 14.06# |
| 277.00 | 21.20 | 23.86  |
| 0.00   | 0.00  | 0.00   |

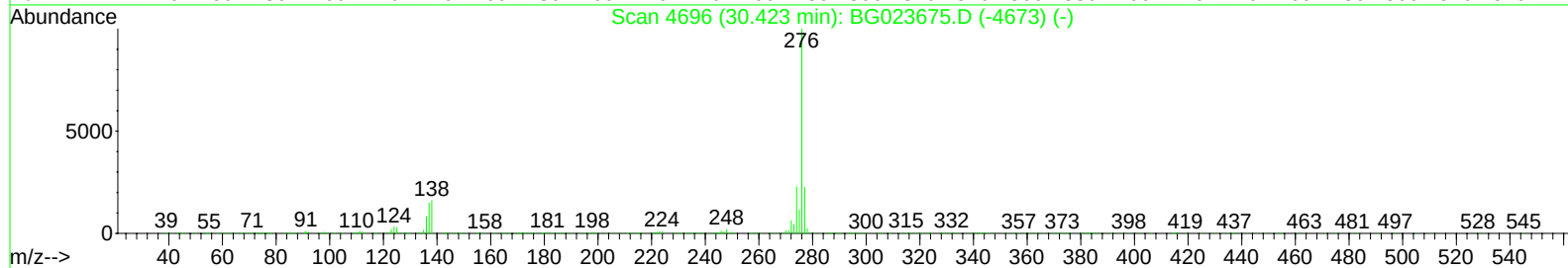
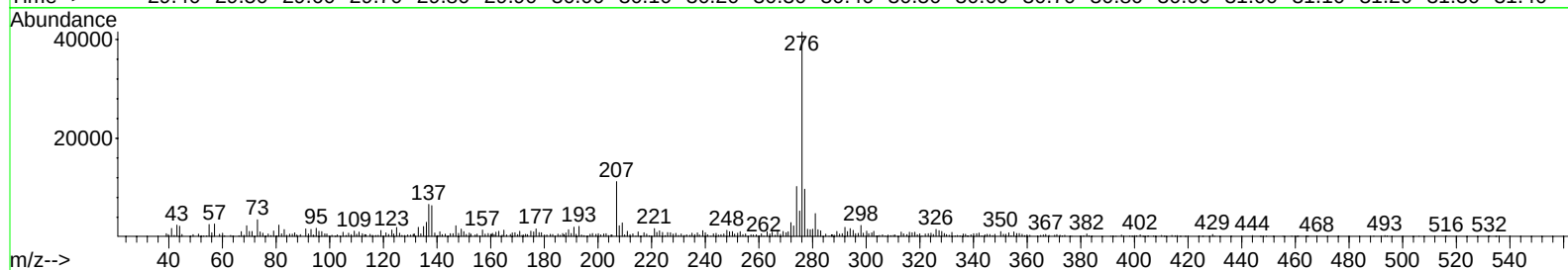
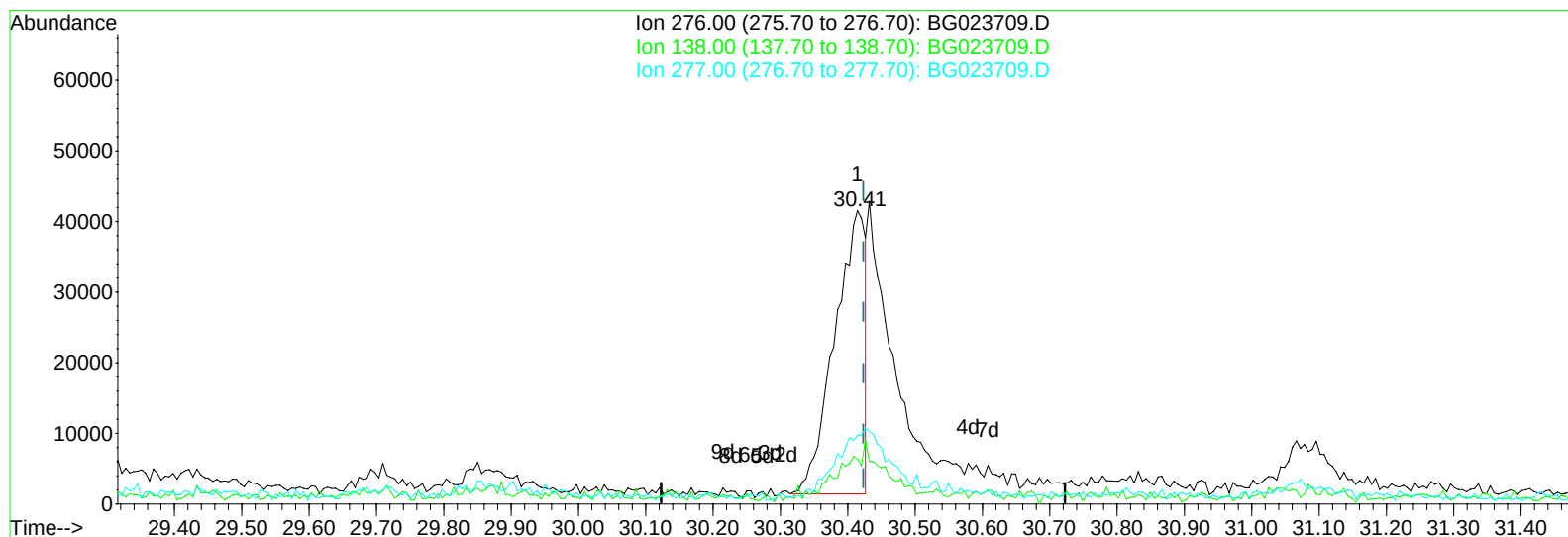
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS002-0612-01

Quant Time: Aug 18 13:18:51 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration

Manual Integrations  
APPROVED

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8/16/2016 7:00:03 PM



TIC: BG023709.D

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

30.414min (-0.009) 3.30ng/ul

response 126537

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 27.60 | 15.30# |
| 277.00 | 21.20 | 23.38  |
| 0.00   | 0.00  | 0.00   |



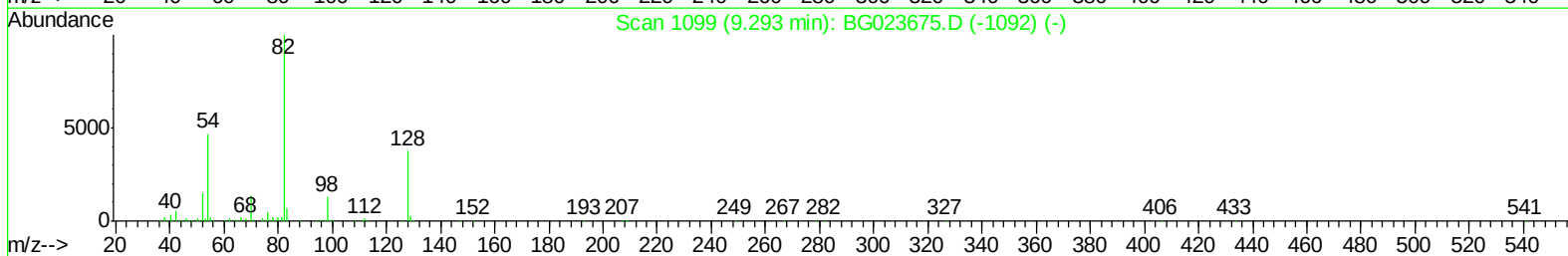
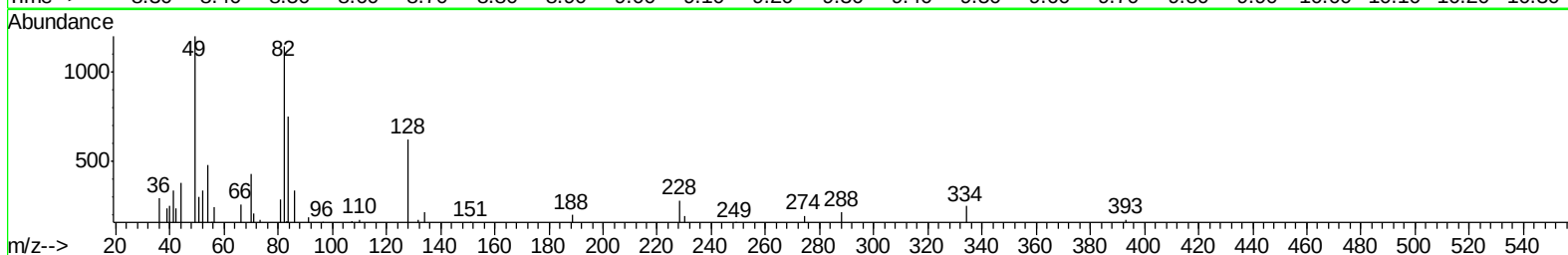
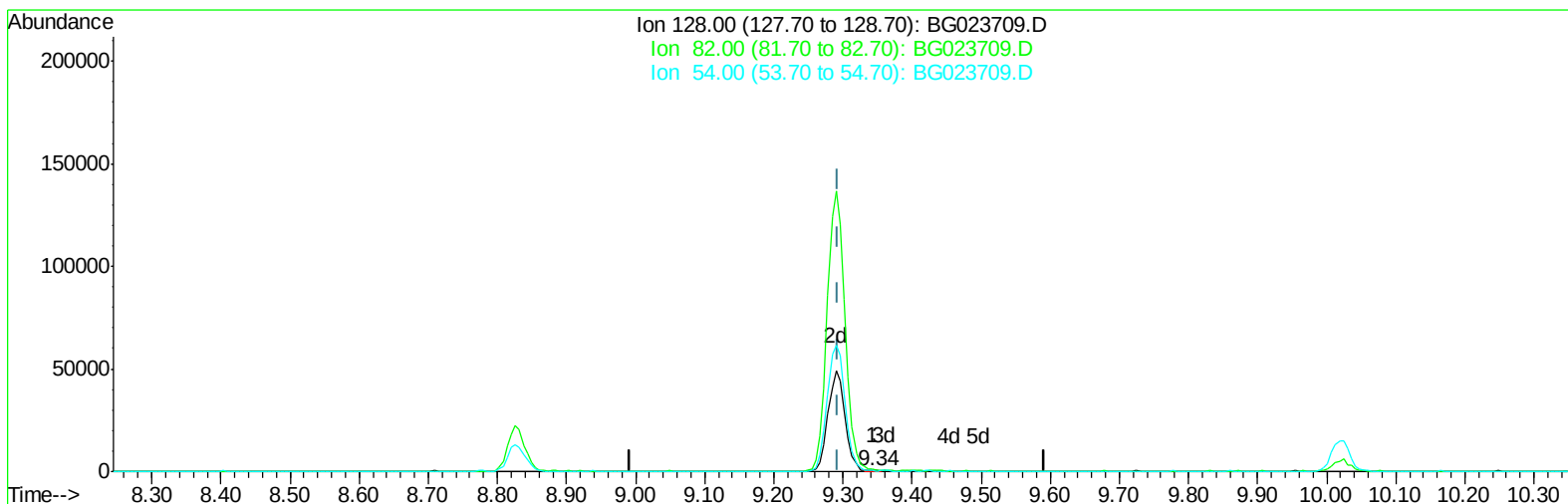
Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
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Manual Integrations  
APPROVED

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8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:27:58 2016  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration



TIC: BG023709.D

(19) Nitrobenzene-d5 (S)

9.343min (+0.050) 0.13ng/ul

response 583

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 128.00 | 100    | 100    |
| 82.00  | 219.50 | 183.12 |
| 54.00  | 78.50  | 77.01  |
| 0.00   | 0.00   | 0.00   |

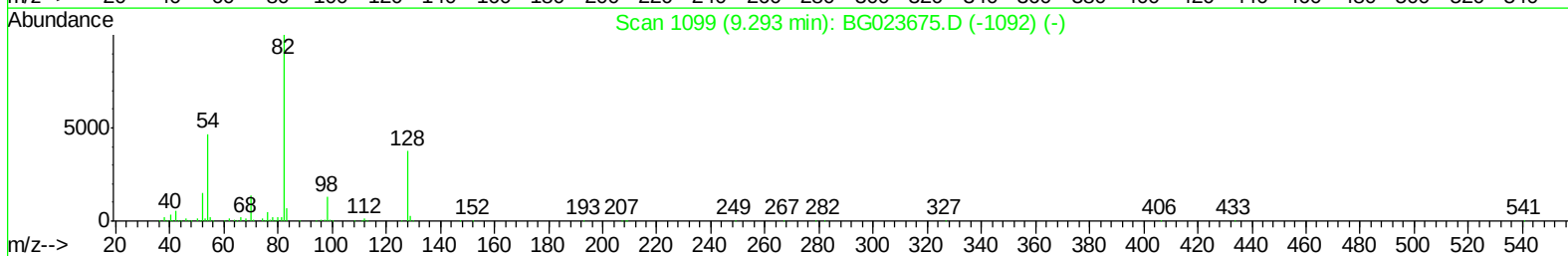
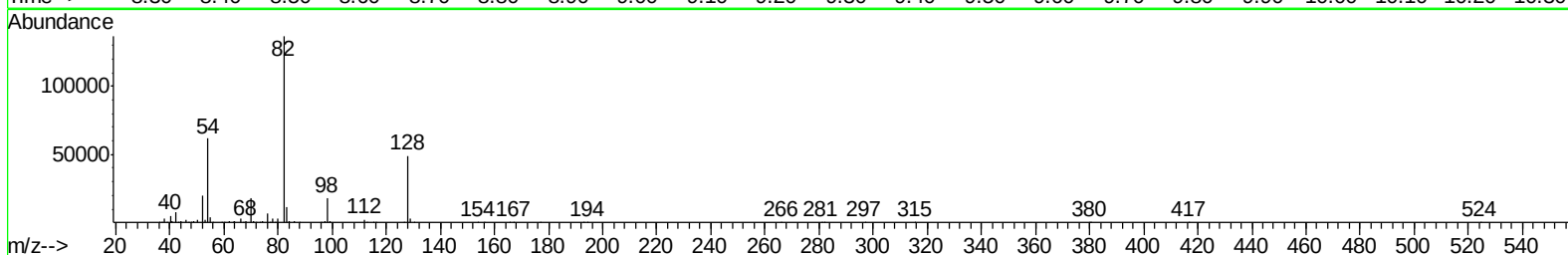
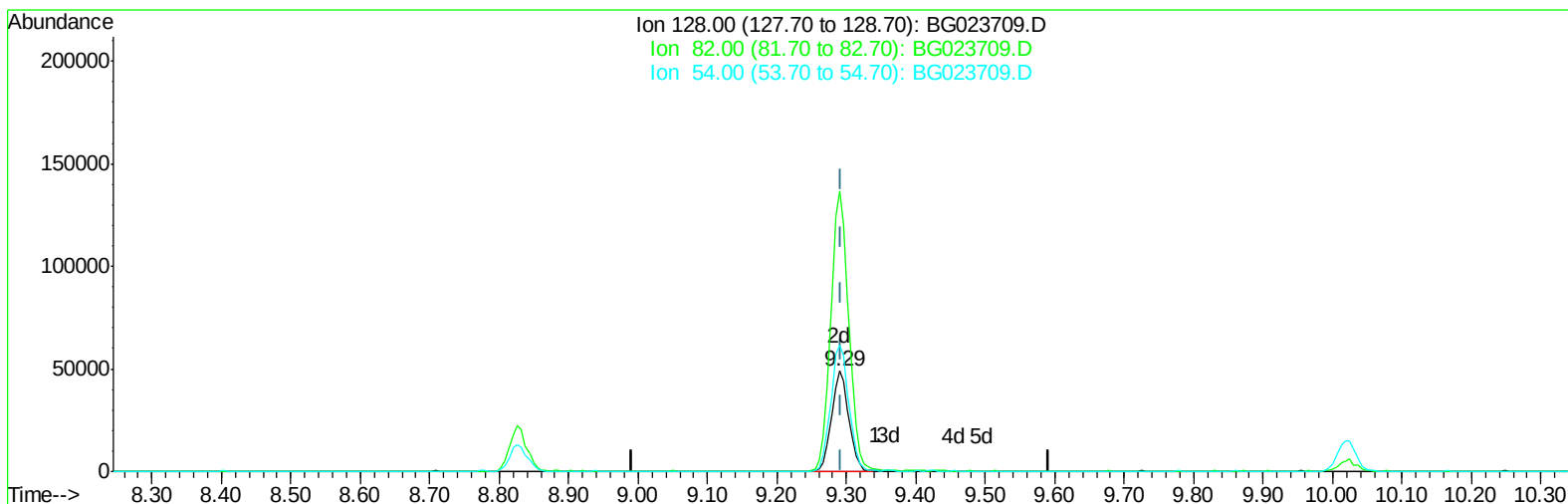
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Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
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Manual Integrations  
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8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:27:58 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
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Response via : Initial Calibration



TIC: BG023709.D

(19) Nitrobenzene-d5 (S)

9.290min (-0.003) 19.49ng/ul m

response 84387

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 128.00 | 100    | 100     |
| 82.00  | 219.50 | 279.72# |
| 54.00  | 78.50  | 126.50# |
| 0.00   | 0.00   | 0.00    |

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 Data File : BG023709.D  
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 Operator : UM/SJ  
 Sample : H4388-07  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR002-SS002-0612-01

Manual Integrations  
 APPROVED

umangi  
 8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:28:44 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Aug 13 06:38:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 126488   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.95 | 136  | 549201   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.79 | 164  | 338824   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 698692   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.88 | 240  | 711880   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.29 | 264  | 717395   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 7062   | 2.37  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.27  | 99  | 219316 | 17.21 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.42  | 67  | 152803 | 18.72 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 163893 | 18.85 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 166972 | 16.79 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 84387m | 19.49 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 102758 | 20.67 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.57 | 165 | 167687 | 17.88 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 132289 | 12.02 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 550815 | 19.86 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 654817 | 20.97 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.01 | 143 | 68080  | 14.38 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.78 | 176 | 479222 | 18.70 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.92 | 200 | 68908  | 15.37 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.65 | 188 | 663915 | 21.09 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.95 | 212 | 699776 | 19.42 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.06 | 264 | 677086 | 20.85 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       |        | Ovalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 44) Dimethylphthalate      | 14.22 | 163 | 278213  | 10.13 | ng/ul  | 99     |
| 47) Acenaphthylene         | 14.51 | 152 | 89205   | 2.73  | ng/ul# | 91     |
| 58) Fluorene               | 15.84 | 166 | 46155   | 1.68  | ng/ul  | 94     |
| 69) Phenanthrene           | 17.60 | 178 | 958650  | 26.49 | ng/ul  | 98     |
| 71) Anthracene             | 17.68 | 178 | 79021   | 2.14  | ng/ul  | 98     |
| 74) Fluoranthene           | 19.61 | 202 | 1196142 | 32.29 | ng/ul# | 92     |
| 77) Pyrene                 | 19.98 | 202 | 1411685 | 32.08 | ng/ul  | 93     |
| 80) Benzo(a)anthracene     | 21.86 | 228 | 612859  | 15.29 | ng/ul  | 97     |
| 82) Chrysene               | 21.93 | 228 | 764733  | 20.98 | ng/ul  | 95     |
| 85) Benzo(b)fluoranthene   | 24.20 | 252 | 660853  | 16.20 | ng/ul# | 93     |
| 86) Benzo(k)fluoranthene   | 24.26 | 252 | 232554m | 5.79  | ng/ul  |        |
| 88) Benzo(a)pyrene         | 25.13 | 252 | 506015m | 12.84 | ng/ul  |        |
| 89) Indeno(1,2,3-cd)pyrene | 29.20 | 276 | 254410  | 5.50  | ng/ul# | 80     |
| 90) Dibenzo(a,h)anthracene | 29.25 | 278 | 83550m  | 2.12  | ng/ul  |        |
| 91) Benzo(g,h,i)perylene   | 30.43 | 276 | 243153m | 6.34  | ng/ul  |        |

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

Data Path : Z:\HPCHEM1\BNA G\Data\BG081316\  
Data File : BG023709.D  
Acq On : 14 Aug 2016 4:33  
Operator : UM/SJ  
Sample : H4388-07  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PR002-SS002-0612-01

Manual Integrations  
APPROVED

umangi  
8/16/2016 7:00:03 PM

Quant Time: Aug 16 11:28:44 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Aug 13 06:38:14 2016  
Response via : Initial Calibration

