

**Instrument :**  
BNA\_M

**ClientSampleId :**  
B-64(2.5-4.5)-101117

Sohil  
11/6/2017 4:28:55 PM

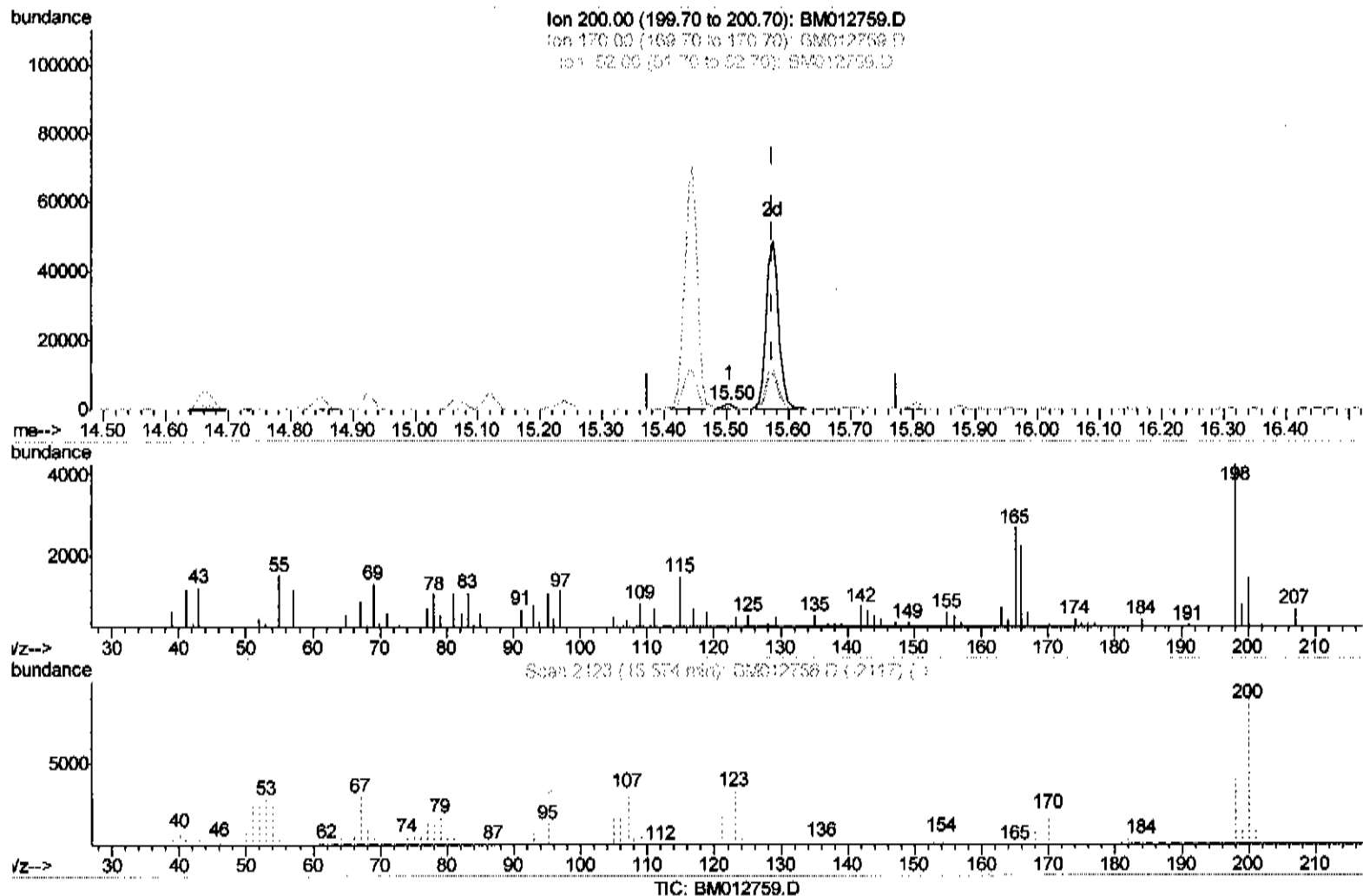
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 B-64(2.5-4.5)-101117

Manual Integrations  
 APPROVED

Sohil  
 11/6/2017 4:28:55 PM

Quant Time: Nov 06 07:23:33 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.504min (-0.070) 0.36ng/ul

response 1919

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 200.00 | 100   | 100   |
| 170.00 | 22.40 | 24.78 |
| 52.00  | 33.60 | 32.70 |
| 0.00   | 0.00  | 0.00  |

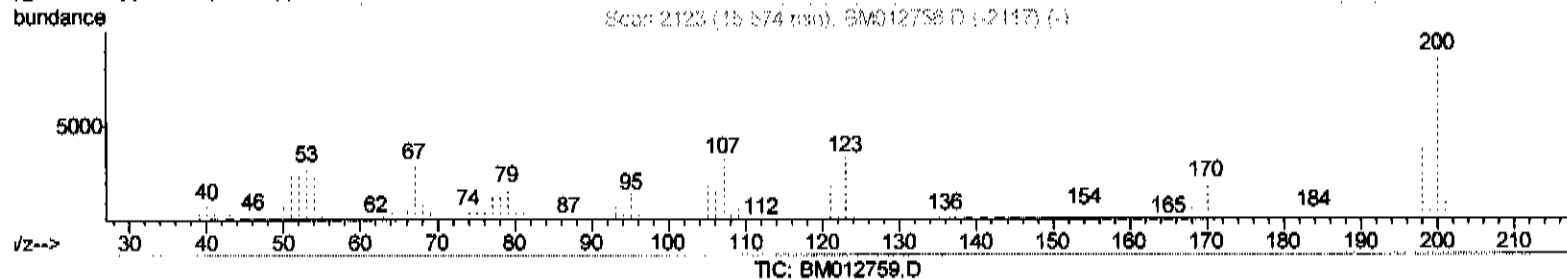
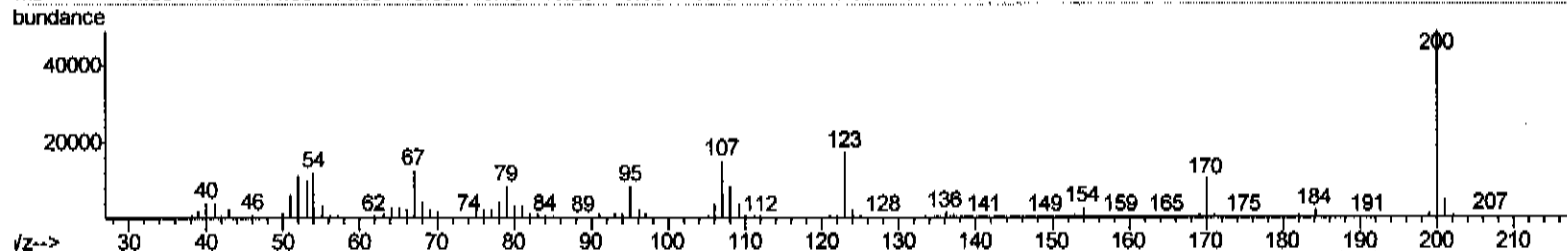
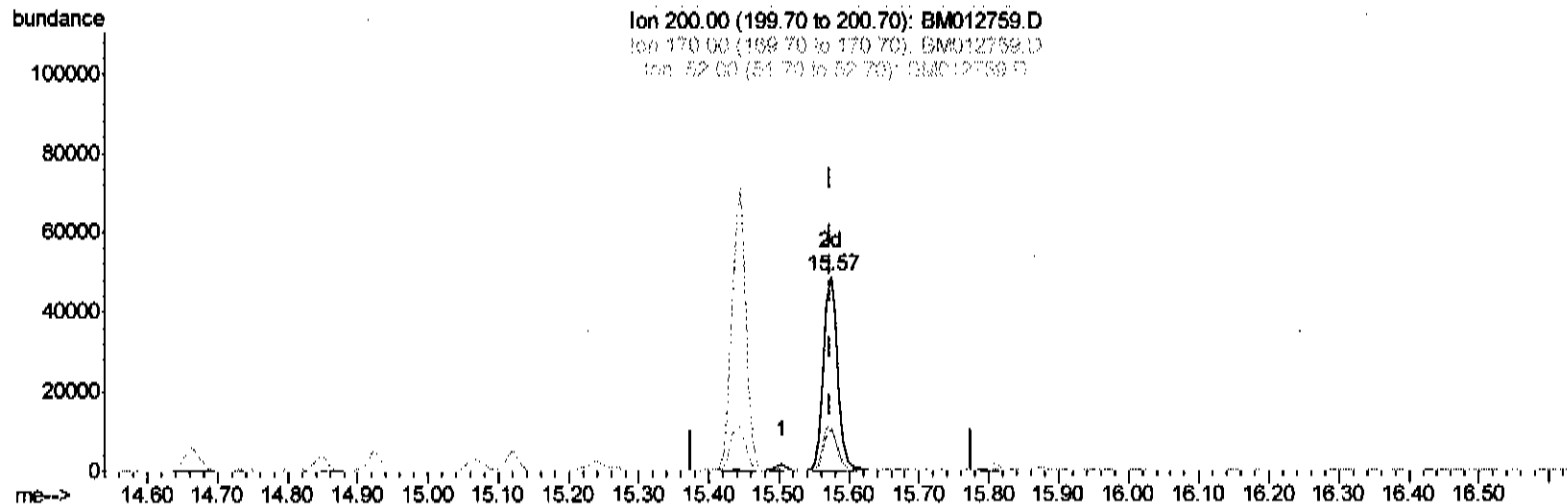
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

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 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.574min (+0.000) 12.87ng/ul m

response 68042

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 200.00 | 100   | 100    |
| 170.00 | 22.40 | 21.03  |
| 52.00  | 33.60 | 22.87# |
| 0.00   | 0.00  | 0.00   |

*Handwritten signature:* SJ 11/7/17

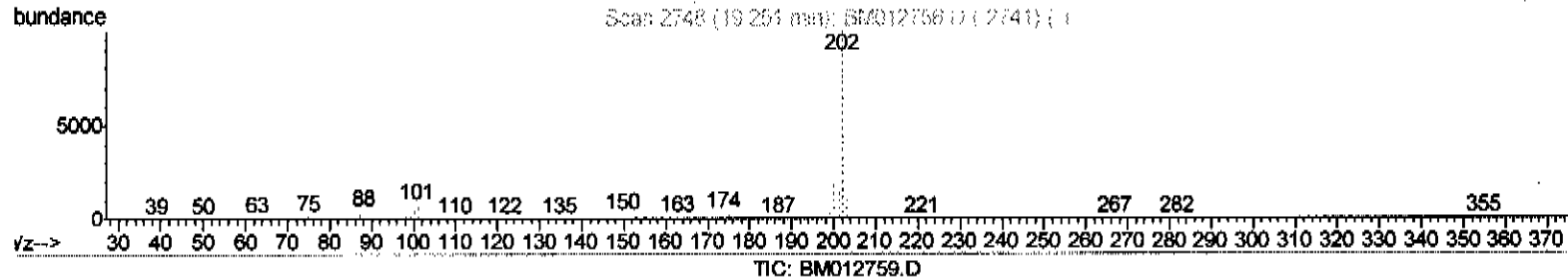
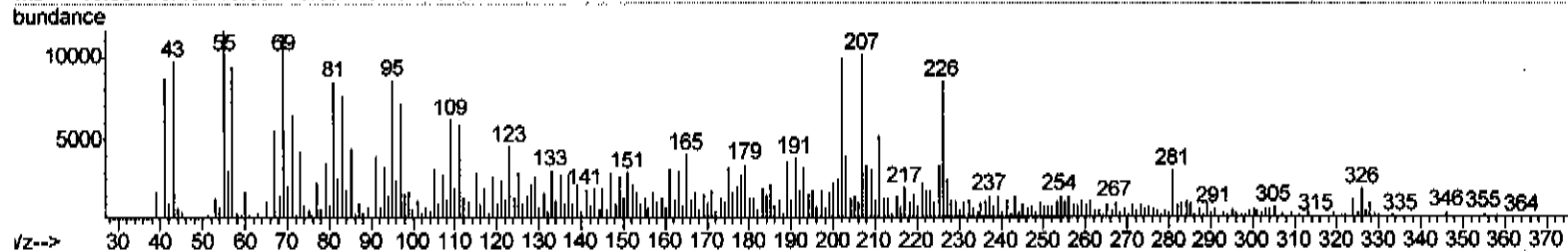
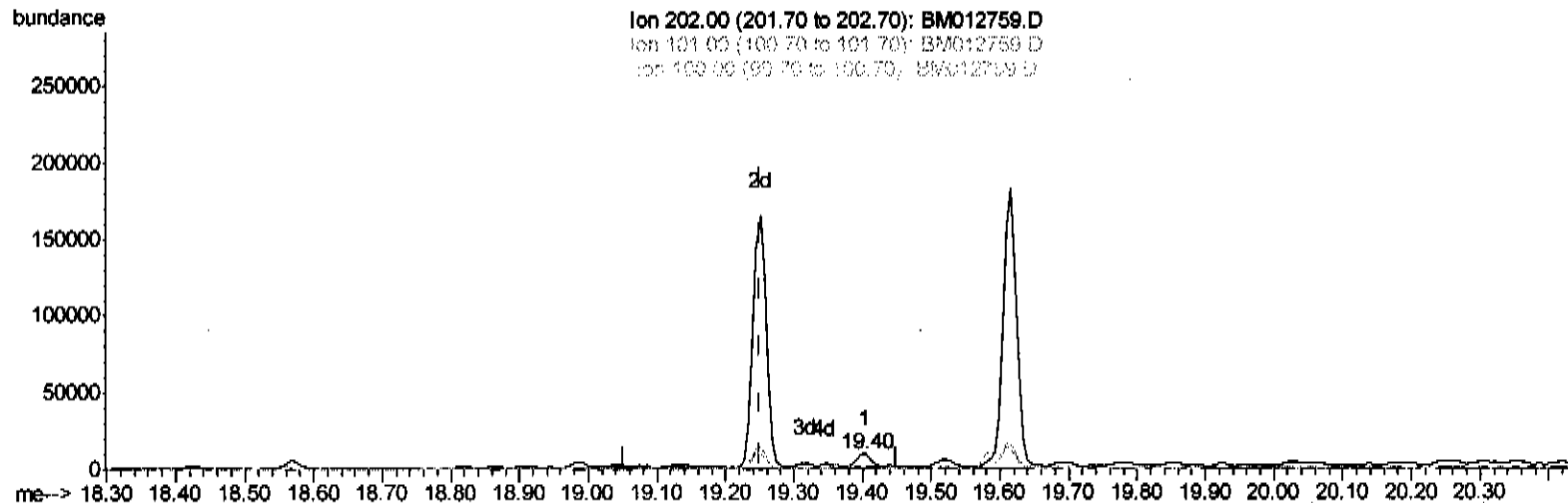
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 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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 ClientSampled :  
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Manual Integrations  
 APPROVED

Sohil  
 11/6/2017 4:28:55 PM

Quant Time: Nov 06 07:34:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(76) Fluoranthene (C)

19.404min (+0.153) 0.21ng/ul

response 11197

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 11.00 | 13.20 |
| 100.00 | 8.20  | 8.24  |
| 0.00   | 0.00  | 0.00  |

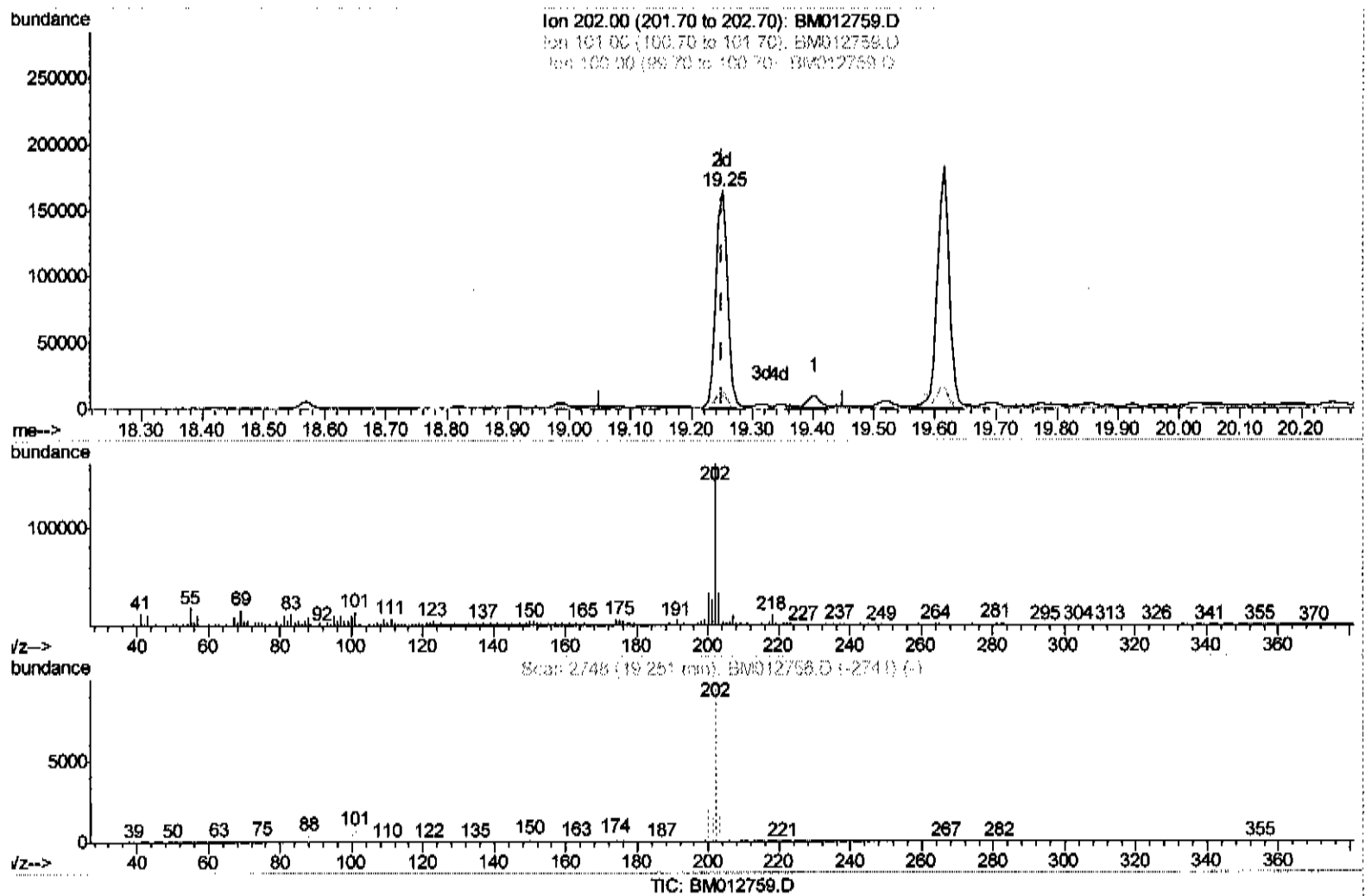
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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Quant Time: Nov 06 07:34:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
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 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(76) Fluoranthene (C)

19.251min (+0.000) 4.17ng/ul m

response 219496

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 11.00 | 8.67# |
| 100.00 | 8.20  | 6.06# |
| 0.00   | 0.00  | 0.00  |

*SJ 11/7/17*

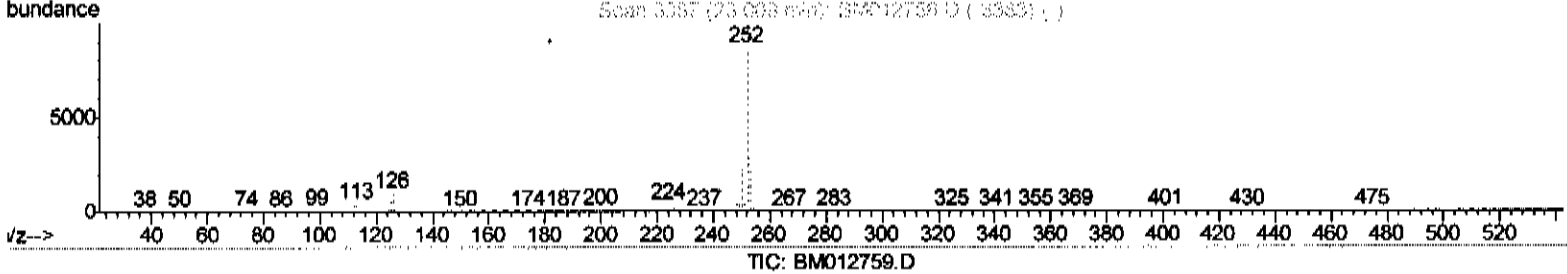
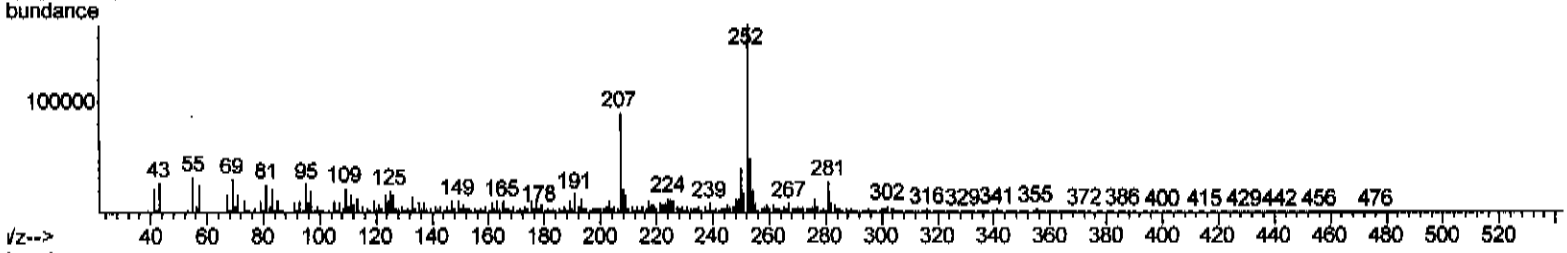
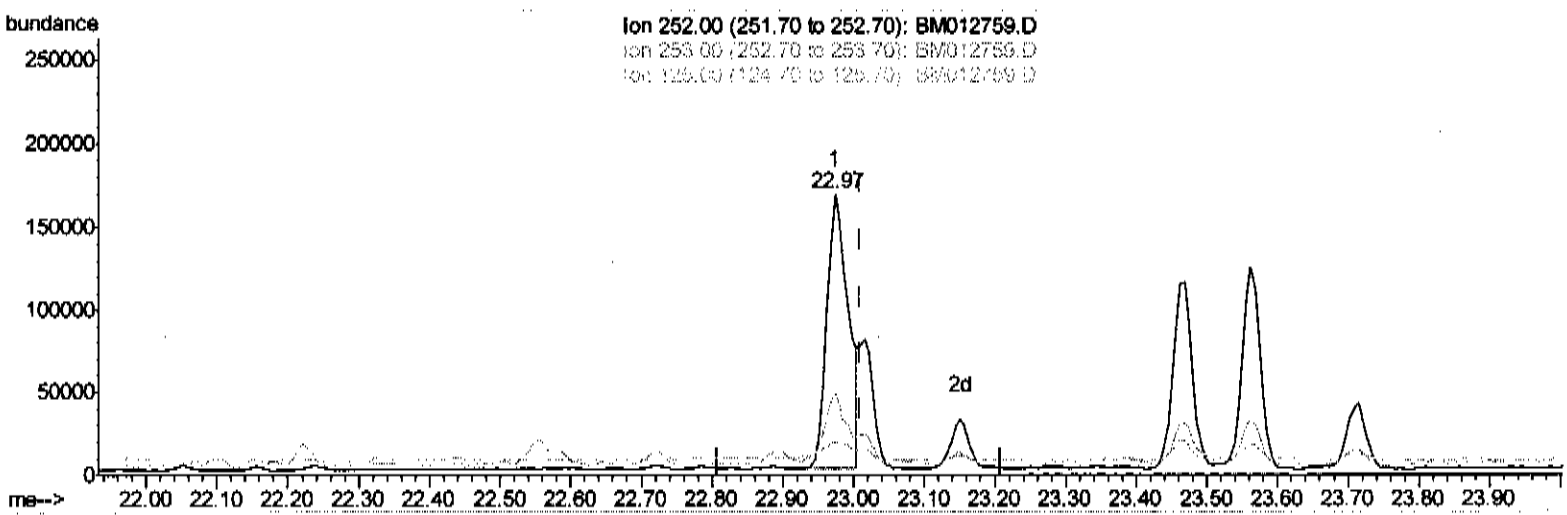
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 B-64(2.5-4.5)-101117

Manual Integrations  
 APPROVED

Sohil  
 11/6/2017 4:28:55 PM

Quant Time: Nov 06 07:34:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene  
 22.974min (-0.035) 8.52ng/ul

response 350626

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.60 | 29.21# |
| 125.00 | 10.20 | 12.02  |
| 0.00   | 0.00  | 0.00   |

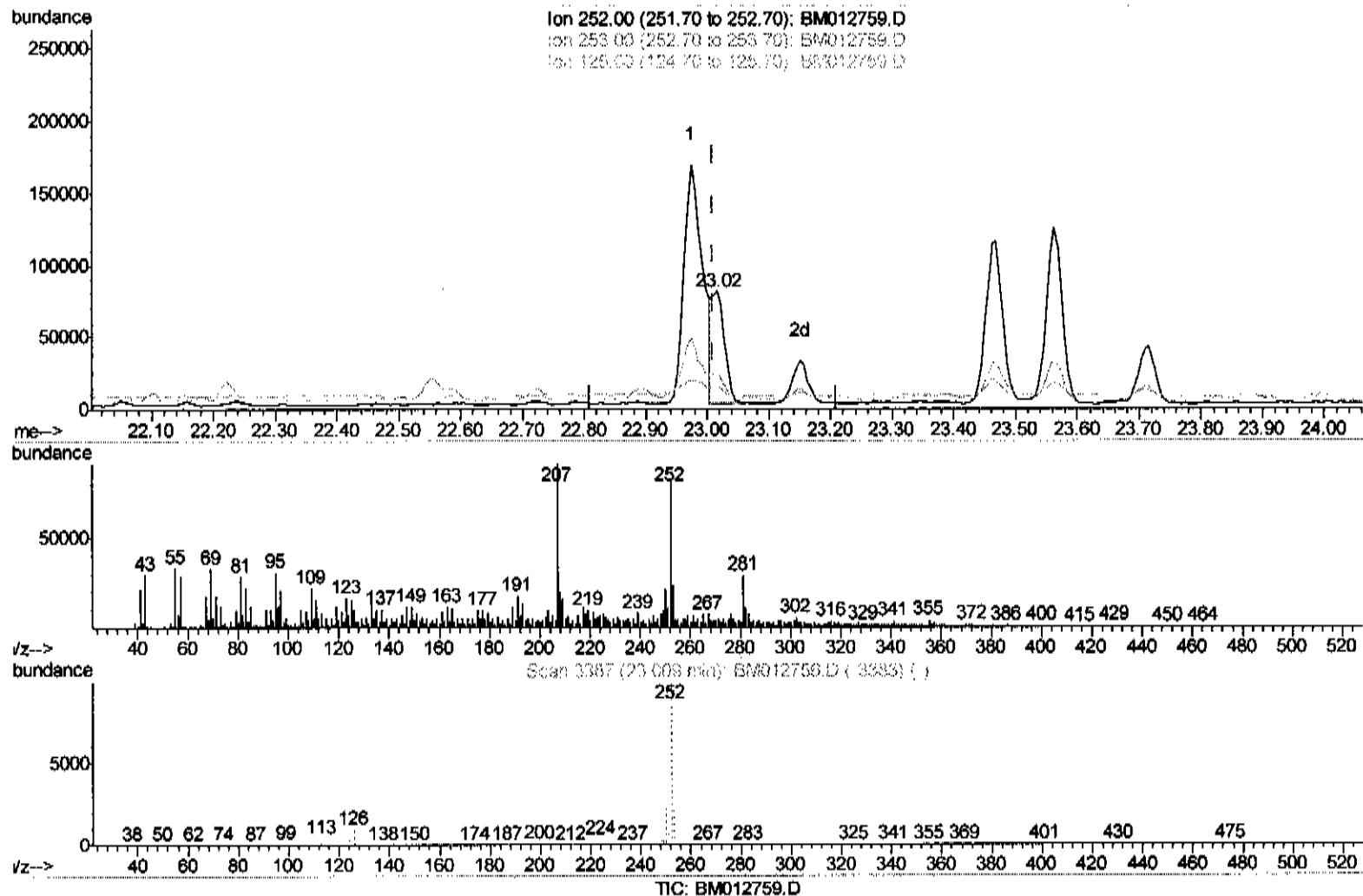
Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
 Data File : BM012759.D  
 Acq On : 06 Nov 2017 03:24  
 Operator : SJ/JU  
 Sample : I5825-10  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B-64(2.5-4.5)-101117

Manual Integrations  
 APPROVED

Sohil  
 11/6/2017 4:28:55 PM

Quant Time: Nov 06 07:34:57 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 06 07:19:57 2017  
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

23.015min (+0.006) 2.61ng/ul m

response 107258

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.60 | 29.60# |
| 125.00 | 10.20 | 19.25# |
| 0.00   | 0.00  | 0.00   |

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Data Path : Z:\HPCHEM1\BNA M\DATA\BM110517\  
Data File : BM012759.D  
Acq On : 06 Nov 2017 03:24  
Operator : SJ/JU  
Sample : I5825-10  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
B-64(2.5-4.5)-101117

Manual Integrations  
APPROVED  
Sohil  
11/6/2017 4:28:55 PM

Quant Time: Nov 06 07:36:01 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM110417MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Nov 06 07:19:57 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 143694   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.60 | 136  | 608316   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.45 | 164  | 381998   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 800557   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.37 | 240  | 644590   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.66 | 264  | 708100   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96   | 12200    | 4.59  | ng/uL | 0.00     |
| 5) Phenol-d5                   | 6.99  | 99   | 286246   | 26.77 | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67   | 165363   | 28.54 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.35  | 132  | 252670   | 28.37 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.52  | 113  | 116999   | 12.68 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 8.97  | 128  | 132048   | 29.38 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.69  | 143  | 155379   | 30.21 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.23 | 165  | 274747   | 26.06 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.75 | 131  | 67580    | 6.64  | ng/ul | 0.00     |
| 43) Dimethylphthalate-d6       | 13.86 | 166  | 942174   | 29.81 | ng/ul | 0.00     |
| 46) Acenaphthylene-d8          | 14.14 | 160  | 1150147  | 29.42 | ng/ul | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.66 | 143  | 97829    | 19.31 | ng/ul | 0.00     |
| 57) Fluorene-d10               | 15.45 | 176  | 831481   | 30.71 | ng/ul | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.57 | 200  | 68042m   | 12.87 | ng/ul | 0.00     |
| 70) Anthracene-d10             | 17.29 | 188  | 1180715  | 30.53 | ng/ul | 0.00     |
| 78) Pyrene-d10                 | 19.59 | 212  | 1063396  | 35.55 | ng/ul | 0.00     |
| 89) Benzo(a)pyrene-d12         | 23.52 | 264  | 1029477  | 30.75 | ng/ul | 0.01     |

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 4) Benzaldehyde                | 6.96  | 77   | 7018     | 1.23  | ng/ul# | 84     |
| 6) Phenol                      | 7.02  | 94   | 48939    | 4.46  | ng/ul  | 95     |
| 44) Dimethylphthalate          | 13.90 | 163  | 509851   | 16.25 | ng/ul  | 100    |
| 69) Phenanthrene               | 17.23 | 178  | 99022    | 2.26  | ng/ul  | 98     |
| 75) Di-n-butylphthalate        | 18.16 | 149  | 115117   | 2.60  | ng/ul  | 99     |
| 76) Fluoranthene               | 19.25 | 202  | 219496m  | 4.17  | ng/ul  | 99     |
| 79) Pyrene                     | 19.62 | 202  | 246107   | 6.40  | ng/ul# | 91     |
| 82) Benzo(a)anthracene         | 21.36 | 228  | 141573   | 3.63  | ng/ul# | 92     |
| 83) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 54685    | 2.68  | ng/ul# | 87     |
| 84) Chrysene                   | 21.41 | 228  | 196433   | 5.56  | ng/ul# | 93     |
| 87) Benzo(b)fluoranthene       | 22.97 | 252  | 350626   | 8.10  | ng/ul# | 88     |
| 88) Benzo(k)fluoranthene       | 23.02 | 252  | 107258m  | 2.61  | ng/ul  | 90     |
| 90) Benzo(a)pyrene             | 23.56 | 252  | 219443   | 5.33  | ng/ul# | 90     |
| 91) Indeno(1,2,3-cd)pyrene     | 25.98 | 276  | 249388   | 5.03  | ng/ul# | 87     |
| 92) Dibenzo(a,h)anthracene     | 25.99 | 278  | 64242    | 1.53  | ng/ul# | 69     |
| 93) Benzo(a,h,i)perylene       | 26.70 | 276  | 261389   | 6.39  | ng/ul# | 90     |

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