

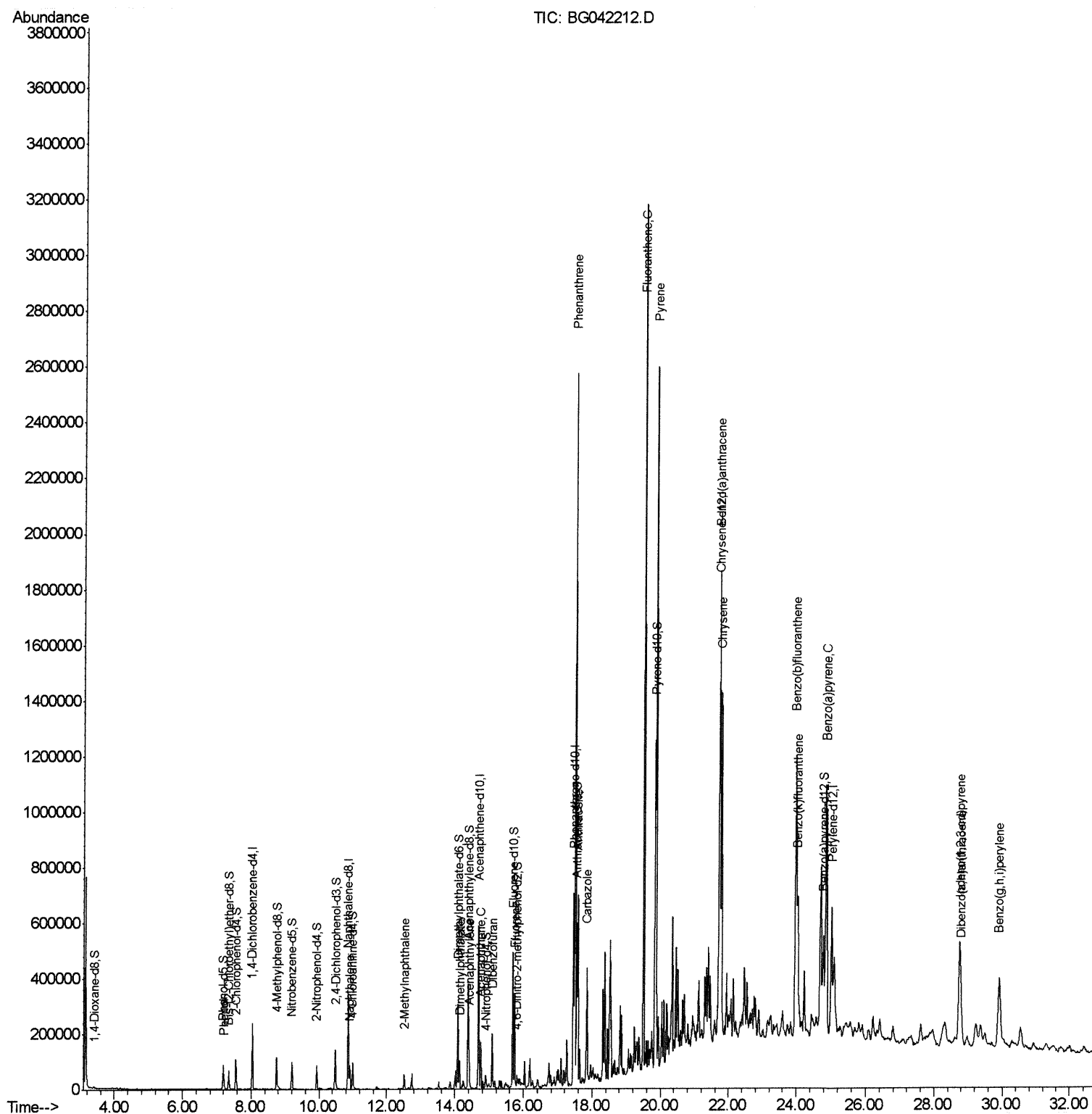
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042212.D  
 Acq On : 14 Aug 2019 16:26  
 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampled :  
 ET0C8DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:12:04 PM

Quant Time: Aug 15 10:35:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 14 10:42:59 2019  
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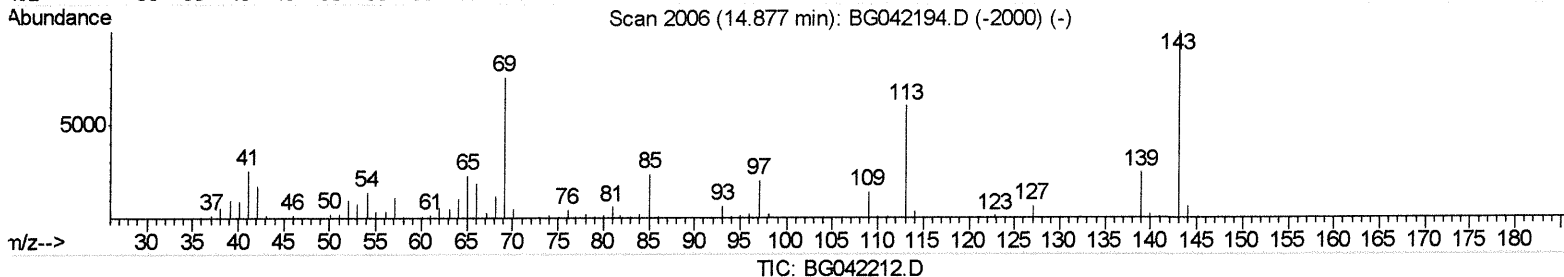
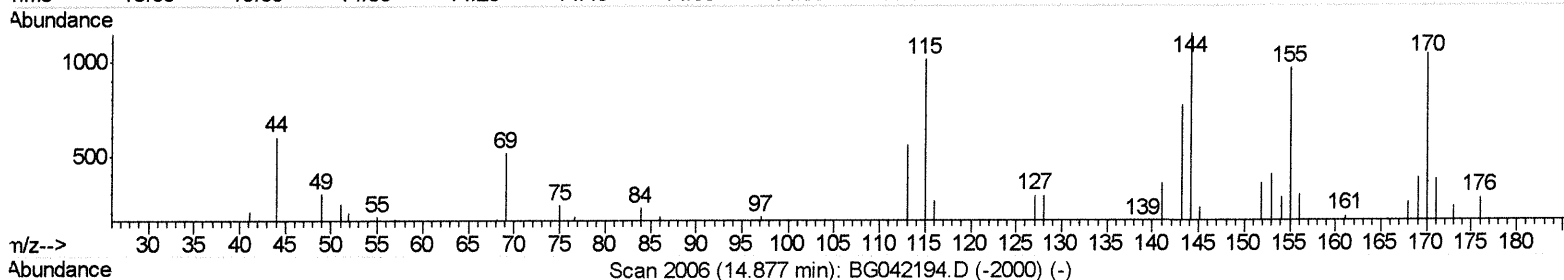
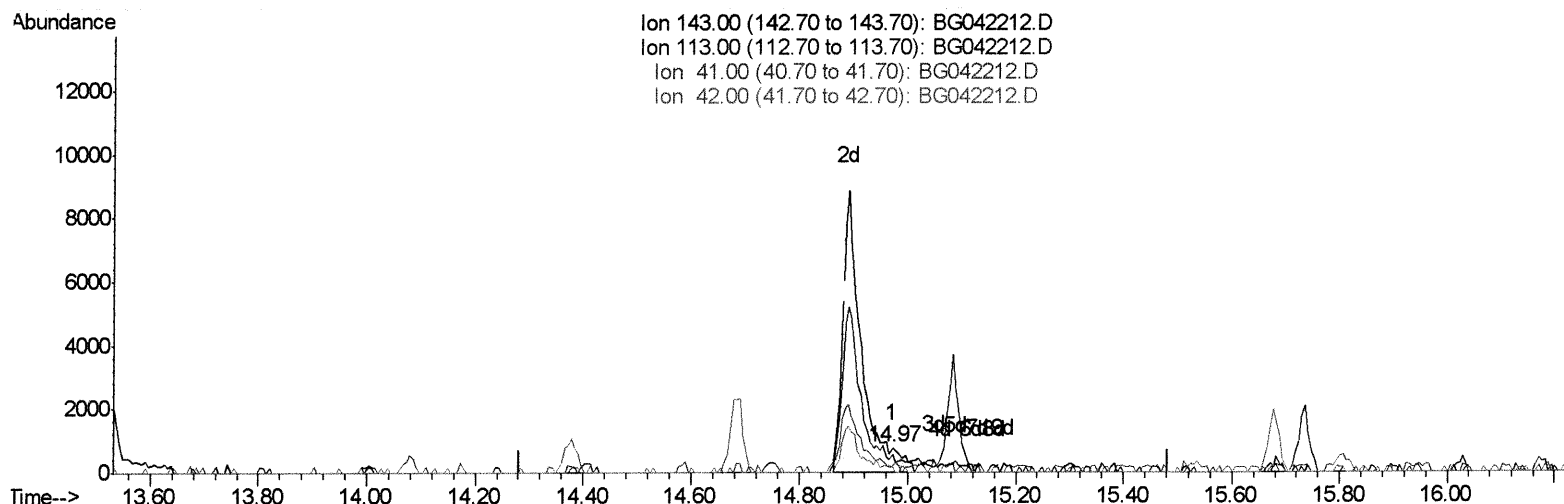
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(51) 4-Nitrophenol-d4 (S)

14.971min (+0.089) 0.18ng/ul

response 548

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 143.00 | 100   | 100   |
| 113.00 | 68.30 | 73.01 |
| 41.00  | 31.00 | 26.99 |
| 42.00  | 21.10 | 21.38 |

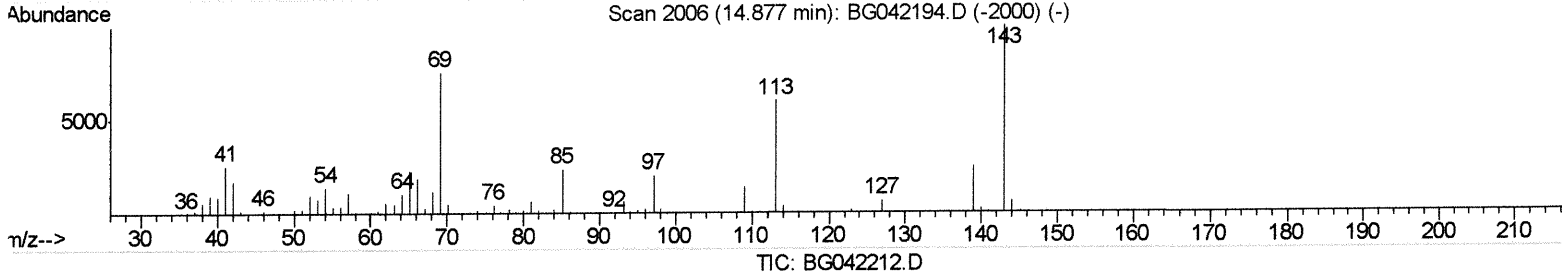
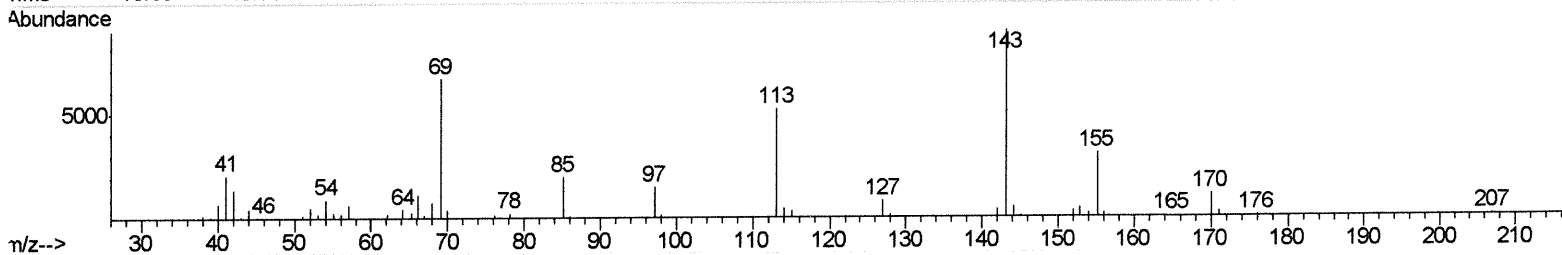
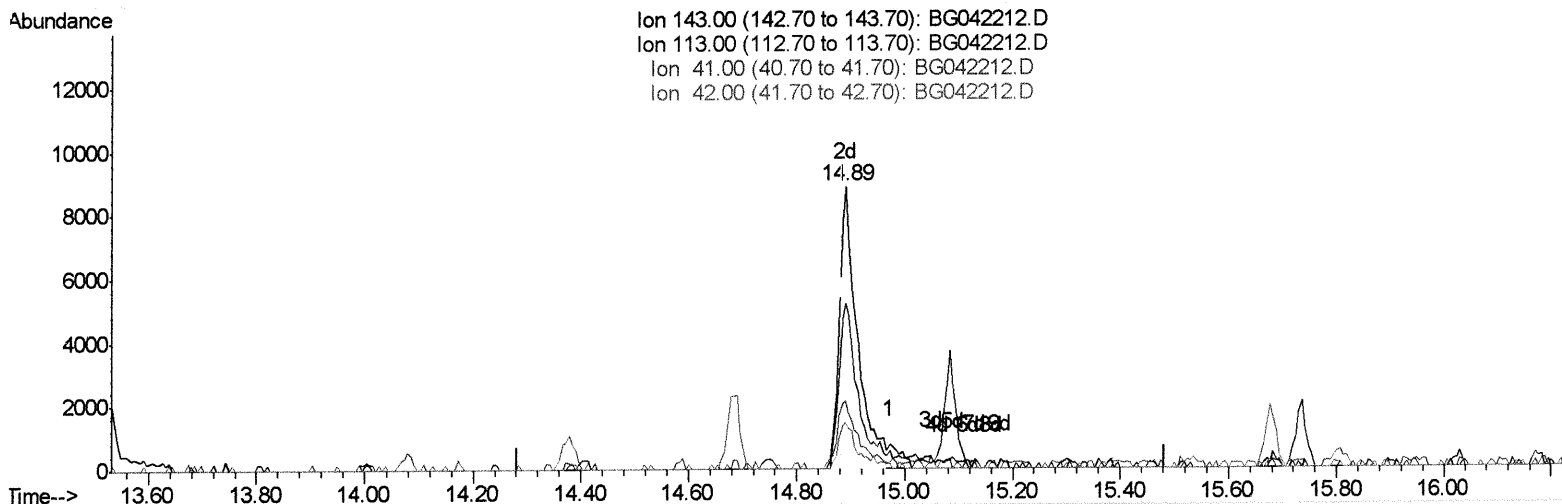
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042212.D  
 Acq On : 14 Aug 2019 16:26  
 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 ET0C8DL

Manual Integrations  
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mohammad  
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 Response via : Initial Calibration



(51) 4-Nitrophenol-d4 (S)

14.889min (+0.006) 6.98ng/ul m 08/15/19

response 20876

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 143.00 | 100   | 100    |
| 113.00 | 68.30 | 58.78  |
| 41.00  | 31.00 | 24.20# |
| 42.00  | 21.10 | 16.59# |

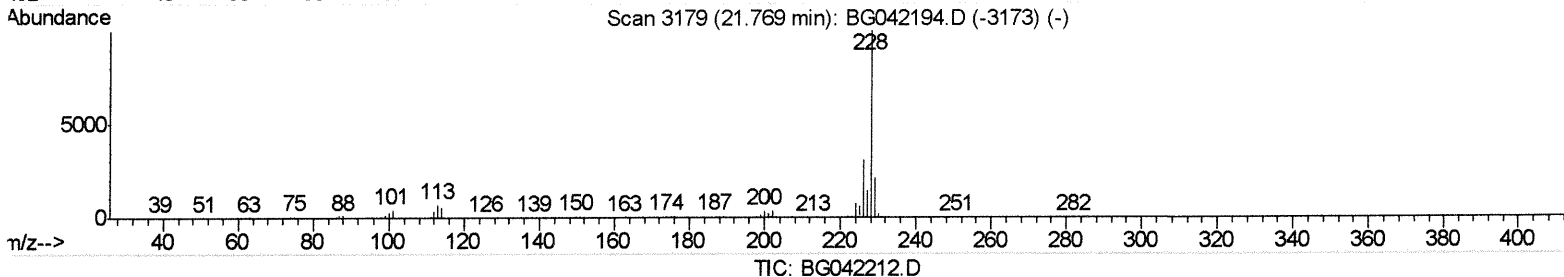
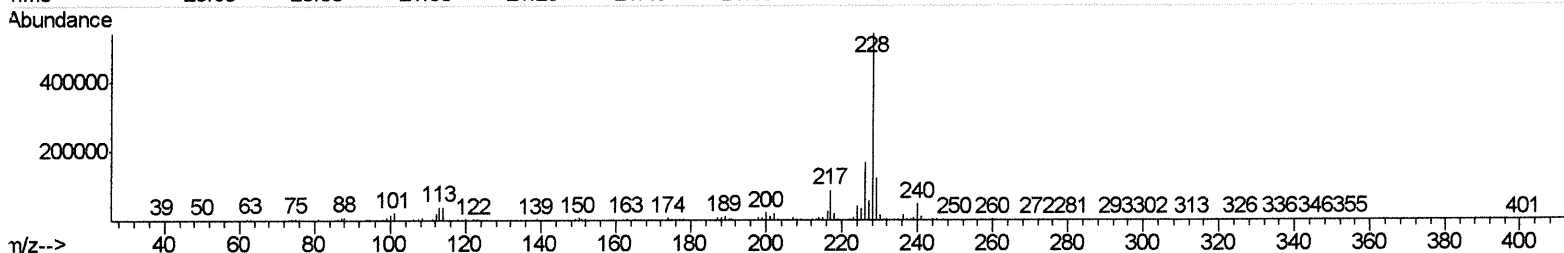
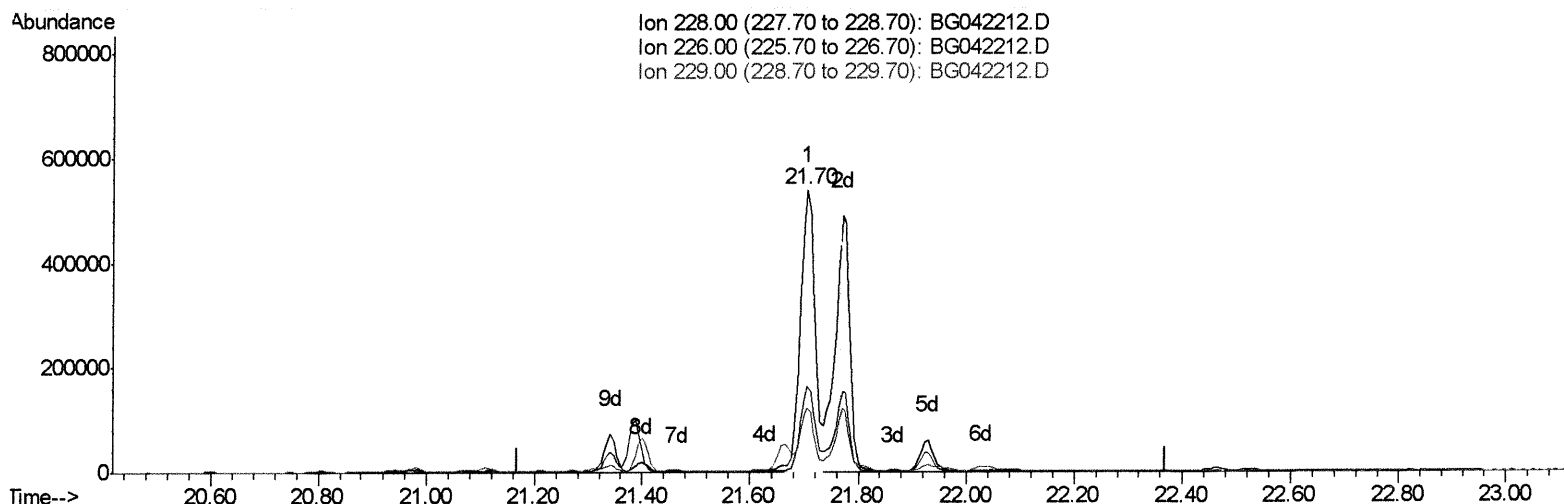
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG081319\  
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 Acq On : 14 Aug 2019 16:26  
 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETOC8DL

Manual Integrations  
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 Response via : Initial Calibration



(84) Chrysene

21.705min (-0.064) 34.73ng/ul

response 1000063

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 228.00 | 100   | 100   |
| 226.00 | 32.10 | 30.64 |
| 229.00 | 20.70 | 22.64 |
| 0.00   | 0.00  | 0.00  |

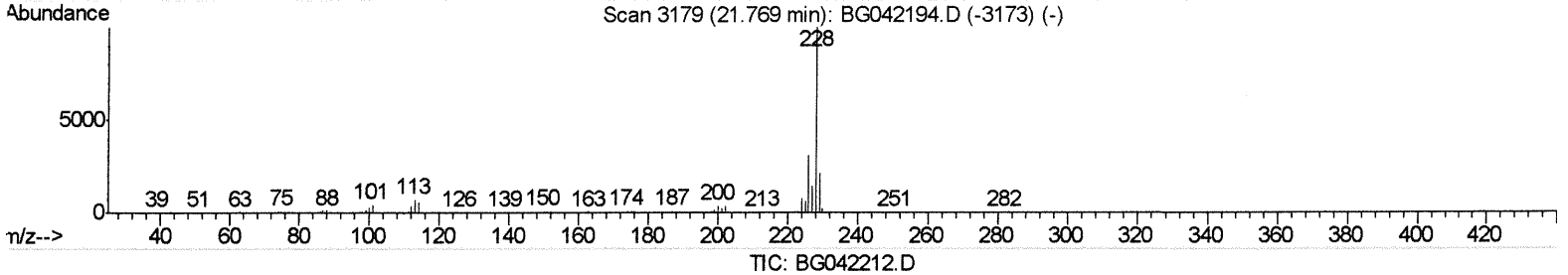
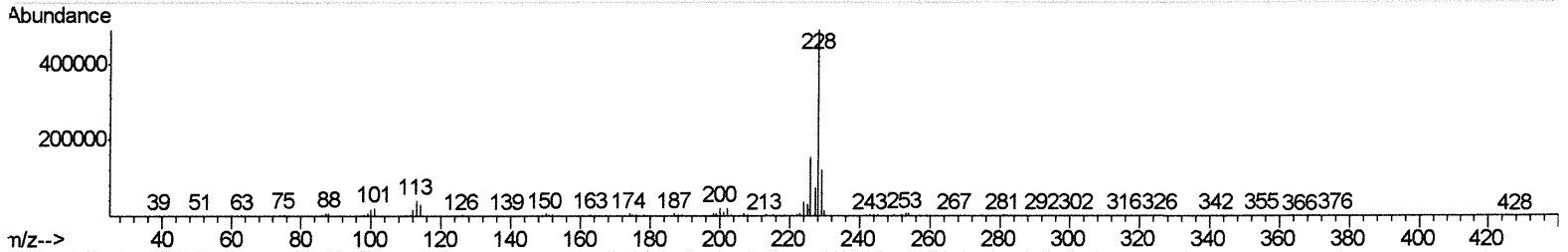
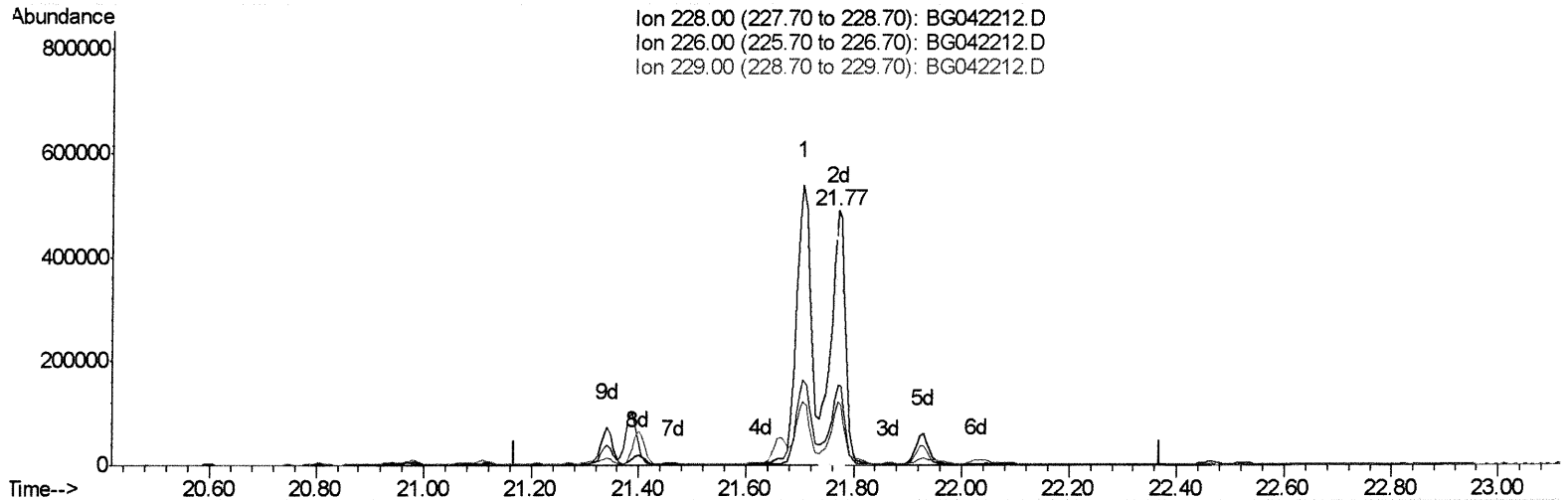
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042212.D  
 Acq On : 14 Aug 2019 16:26  
 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 ET0C8DL

Manual Integrations  
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(84) Chrysene

21.769min (+0.000) 32.49ng/ul m 08/15/19

response 935640

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 226.00 | 32.10 | 31.75  |
| 229.00 | 20.70 | 24.86# |
| 0.00   | 0.00  | 0.00   |

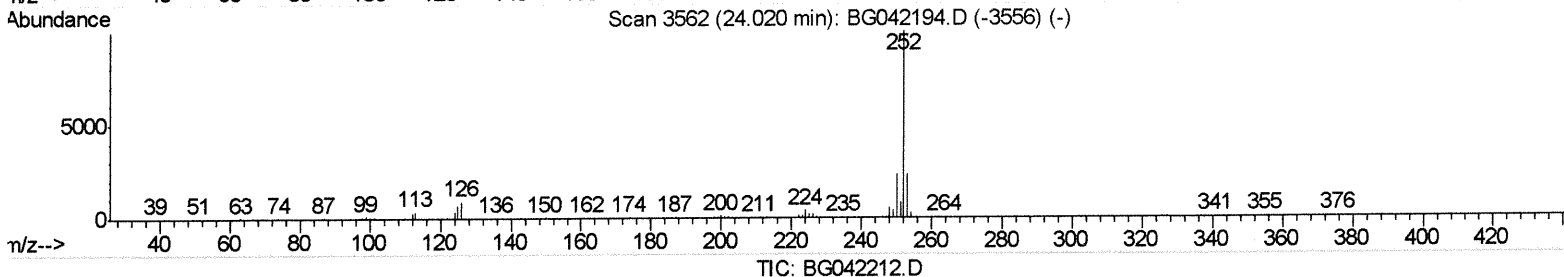
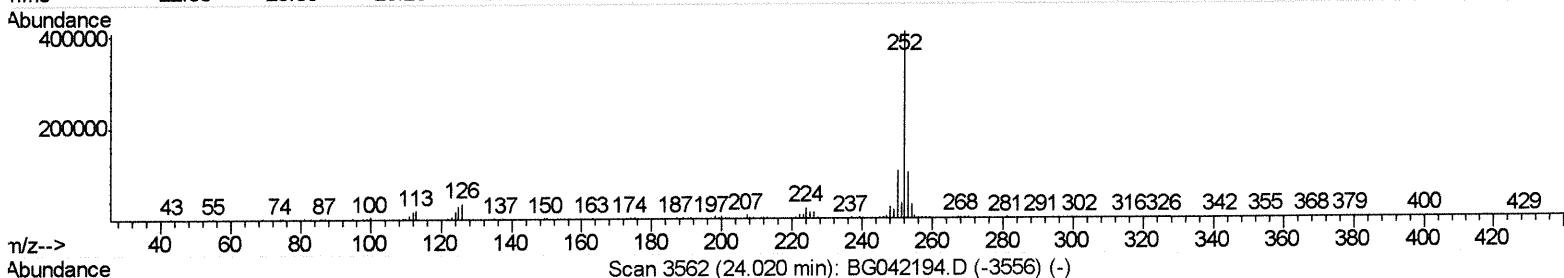
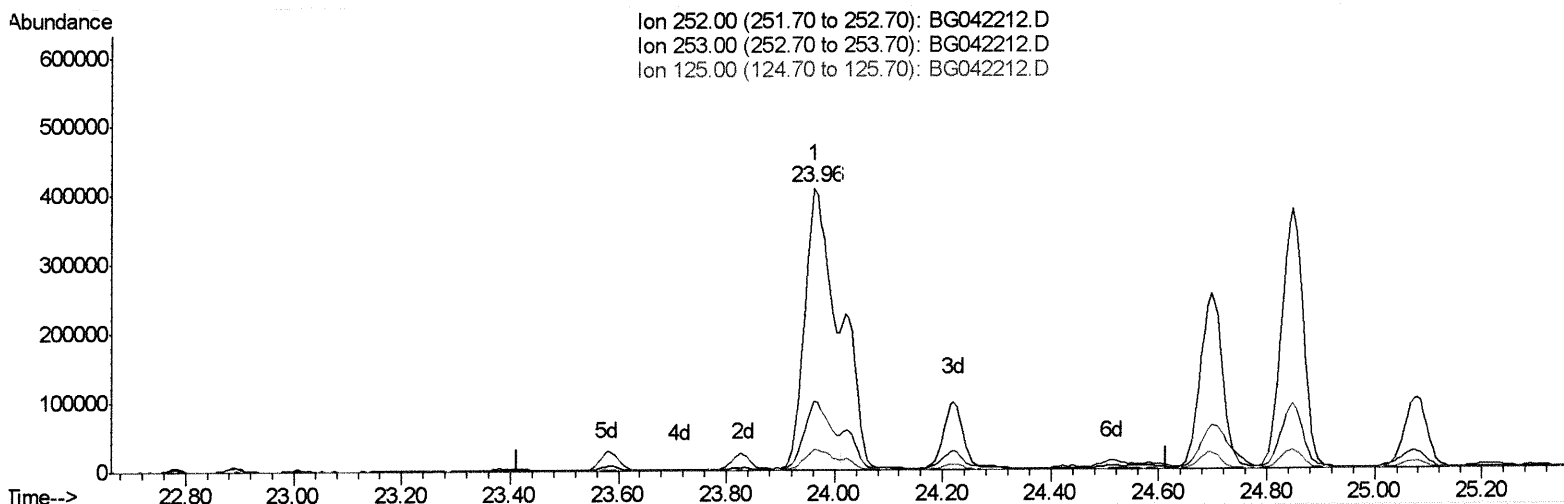
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042212.D  
 Acq On : 14 Aug 2019 16:26  
 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETOC8DL

Manual Integrations  
 APPROVED

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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
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 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

23.961min (-0.052) 40.30ng/ul

response 1314078

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.90 | 24.47 |
| 125.00 | 6.90  | 7.11  |
| 0.00   | 0.00  | 0.00  |

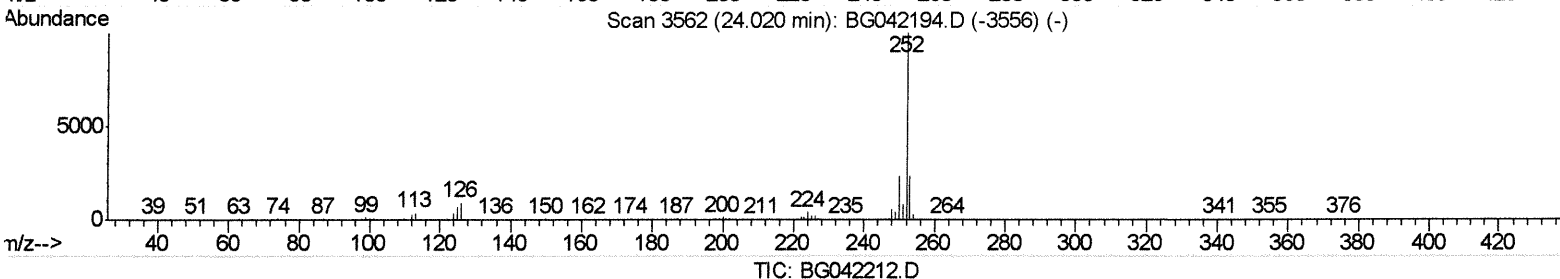
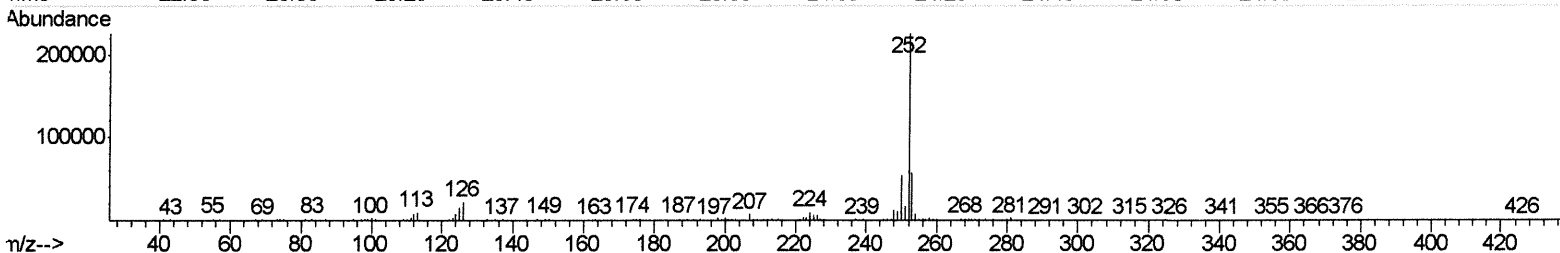
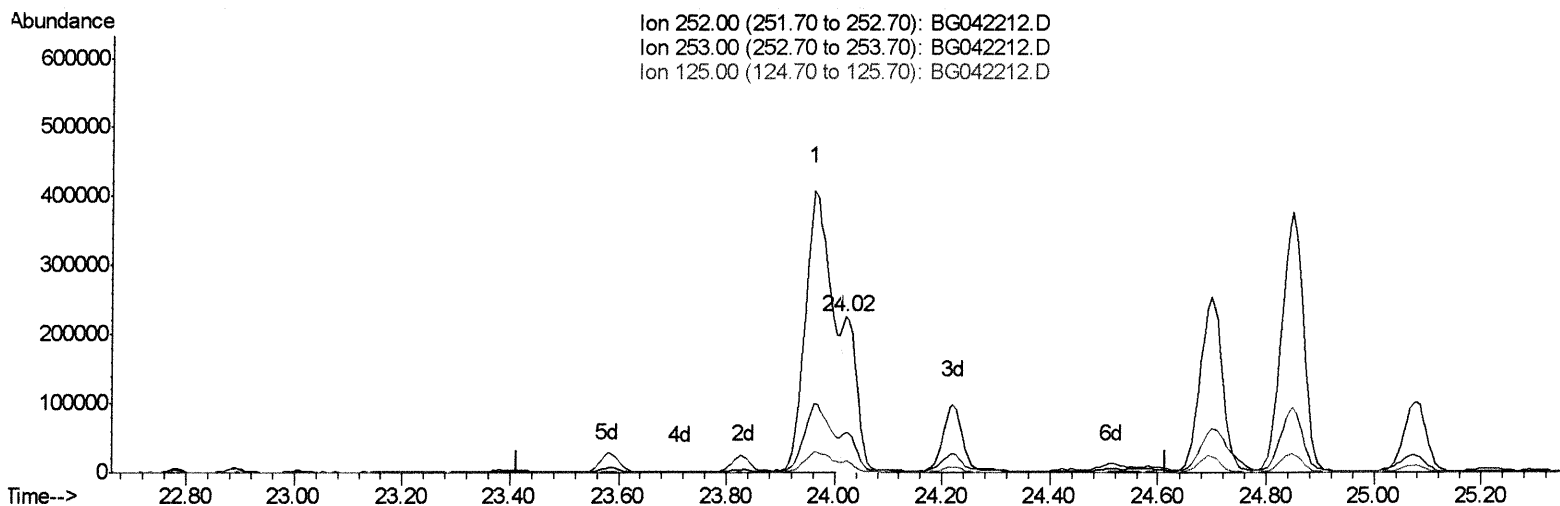
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 Acq On : 14 Aug 2019 16:26  
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 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 ETOC8DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:12:04 PM

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(88) Benzo(k)fluoranthene

24.020min (+0.006) 15.83ng/ul m *JU 08/15/19*

response 516109

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.90 | 25.18 |
| 125.00 | 6.90  | 7.12  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
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 Operator : HP/JU  
 Sample : K4215-15DL 2X  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 ET0C8DL

Manual Integrations  
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 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 81019    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 338764   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.68 | 164  | 229510   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 458939   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 444979   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 25.00 | 264  | 540471   | 20.00 | ng/ul | 0.01     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 3011   | 1.63  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.18  | 99  | 66251  | 10.42 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 35236  | 9.91  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.55  | 132 | 64913  | 11.94 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 57049  | 10.69 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 32414  | 12.71 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 39508  | 13.34 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 76321  | 12.77 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 71373  | 10.76 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 241611 | 13.57 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 288362 | 14.18 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.89 | 143 | 20876m | 6.98  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 217057 | 13.71 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 16083  | 5.46  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 329932 | 14.98 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.82 | 212 | 370255 | 14.91 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.77 | 264 | 425753 | 15.08 | ng/ul | 0.00 |

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#### Target Compounds

|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 6) Phenol                  | 7.21  | 94  | 9312    | 1.419 ng/ul# | 90     |
| 28) Naphthalene            | 10.90 | 128 | 76007   | 4.389 ng/ul  | 99     |
| 34) 2-Methylnaphthalene    | 12.52 | 142 | 31444   | 2.284 ng/ul  | 97     |
| 44) Dimethylphthalate      | 14.13 | 163 | 78985   | 4.469 ng/ul  | 98     |
| 47) Acenaphthylene         | 14.41 | 152 | 105068  | 5.120 ng/ul  | 99     |
| 49) Acenaphthene           | 14.75 | 153 | 75444   | 5.257 ng/ul  | 98     |
| 53) Dibenzofuran           | 15.08 | 168 | 132152  | 6.171 ng/ul  | 100    |
| 58) Fluorene               | 15.74 | 166 | 168726  | 9.781 ng/ul  | 97     |
| 69) Phenanthrene           | 17.49 | 178 | 1746880 | 69.528 ng/ul | 93     |
| 71) Anthracene             | 17.57 | 178 | 488542  | 19.172 ng/ul | 99     |
| 74) Carbazole              | 17.84 | 167 | 288633  | 13.674 ng/ul | 99     |
| 76) Fluoranthene           | 19.50 | 202 | 1989372 | 68.529 ng/ul | 97     |
| 79) Pyrene                 | 19.86 | 202 | 1683243 | 56.236 ng/ul | 98     |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 1000063 | 32.414 ng/ul | 97     |
| 84) Chrysene               | 21.77 | 228 | 935640m | 32.492 ng/ul | 97     |
| 87) Benzo(b)fluoranthene   | 23.96 | 252 | 1314078 | 38.744 ng/ul | 98     |
| 88) Benzo(k)fluoranthene   | 24.02 | 252 | 516109m | 15.826 ng/ul | 97     |
| 90) Benzo(a)pyrene         | 24.85 | 252 | 1046444 | 32.377 ng/ul | 96     |
| 91) Indeno(1,2,3-cd)pyrene | 28.74 | 276 | 704661  | 18.692 ng/ul | 98     |
| 92) Dibenz(a,h)anthracene  | 28.78 | 278 | 167191  | 5.437 ng/ul  | 93     |
| 93) Benzo(a,h,i)perylene   | 29.90 | 276 | 594313  | 18.883 ng/ul | 98     |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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