

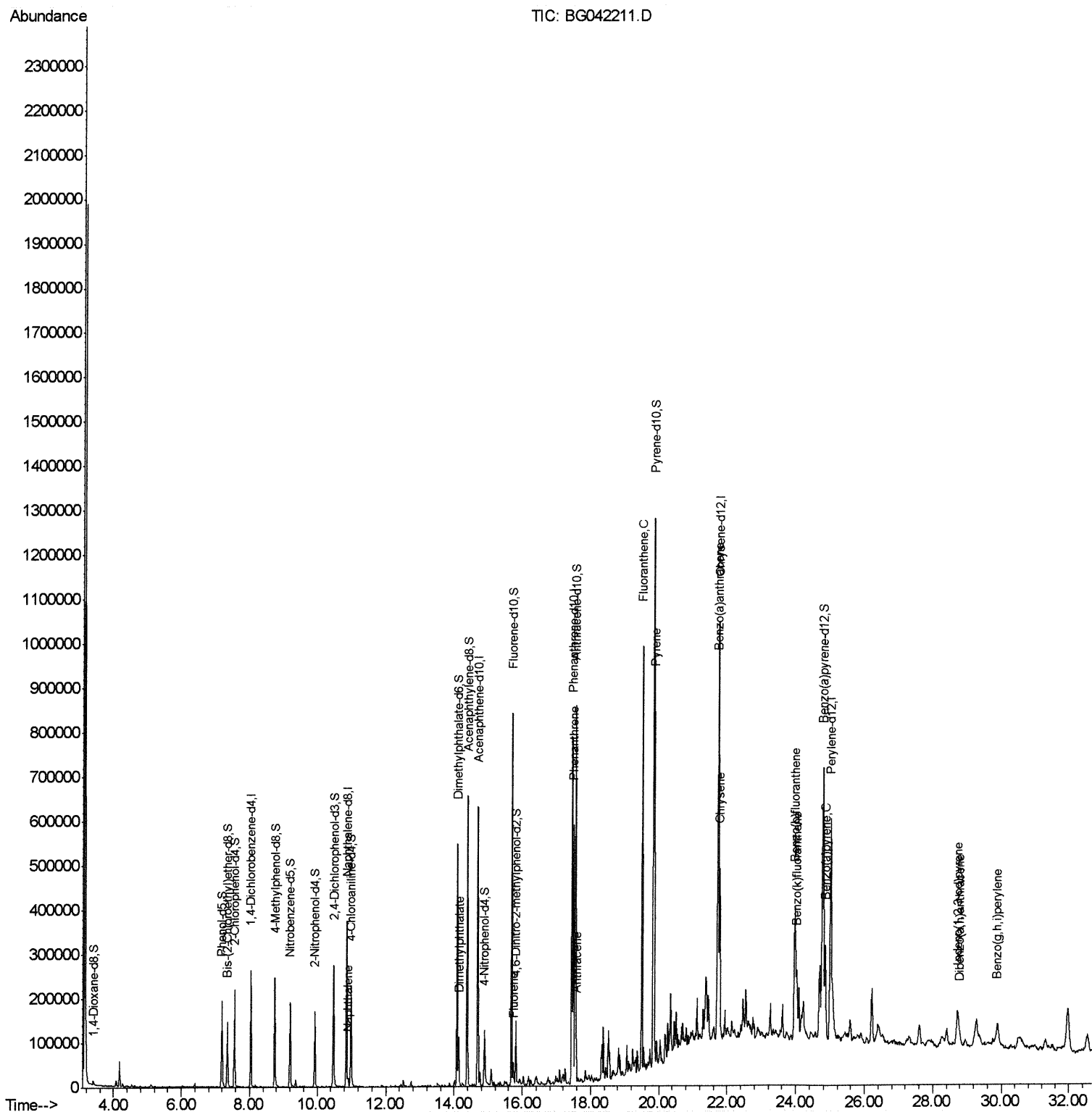
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
Data File : BG042211.D  
Acq On : 14 Aug 2019 15:48  
Operator : HP/JU  
Sample : K4304-15  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
CB5P6

**Manual Integrations**  
**APPROVED**

mohammad  
8/15/2019 5:12:11 PM

Quant Time: Aug 15 10:04:44 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  
Response via : Initial Calibration



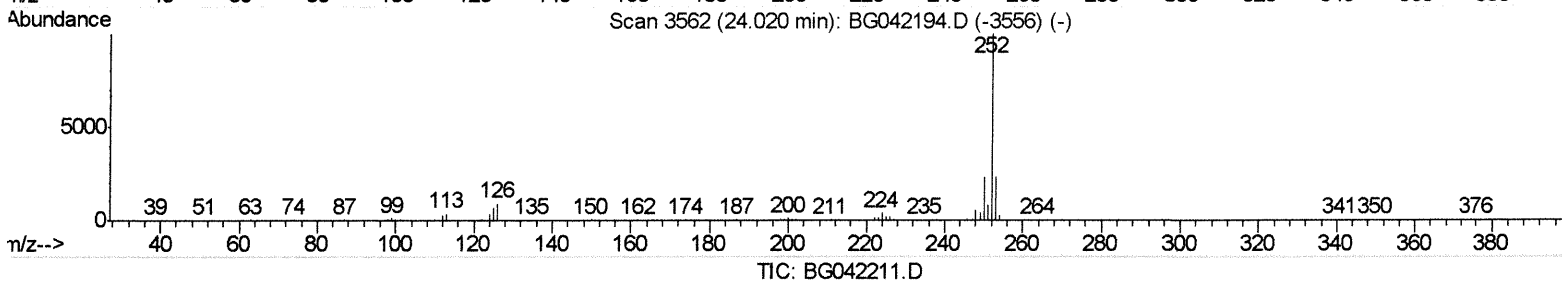
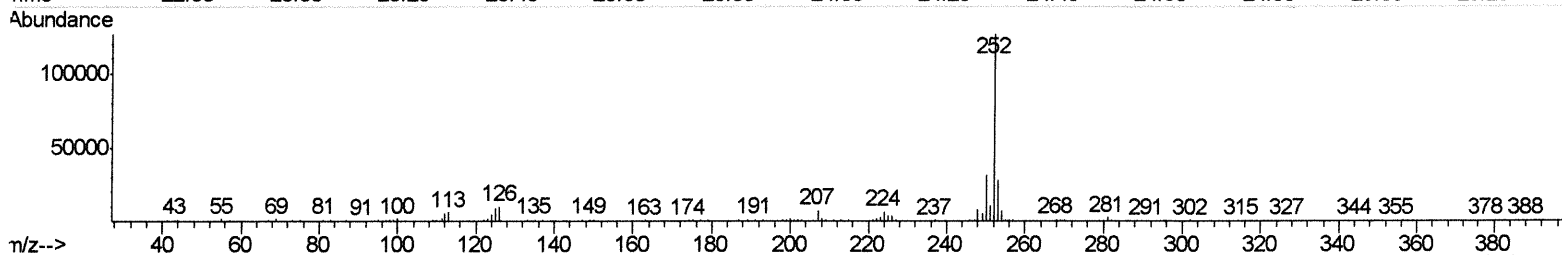
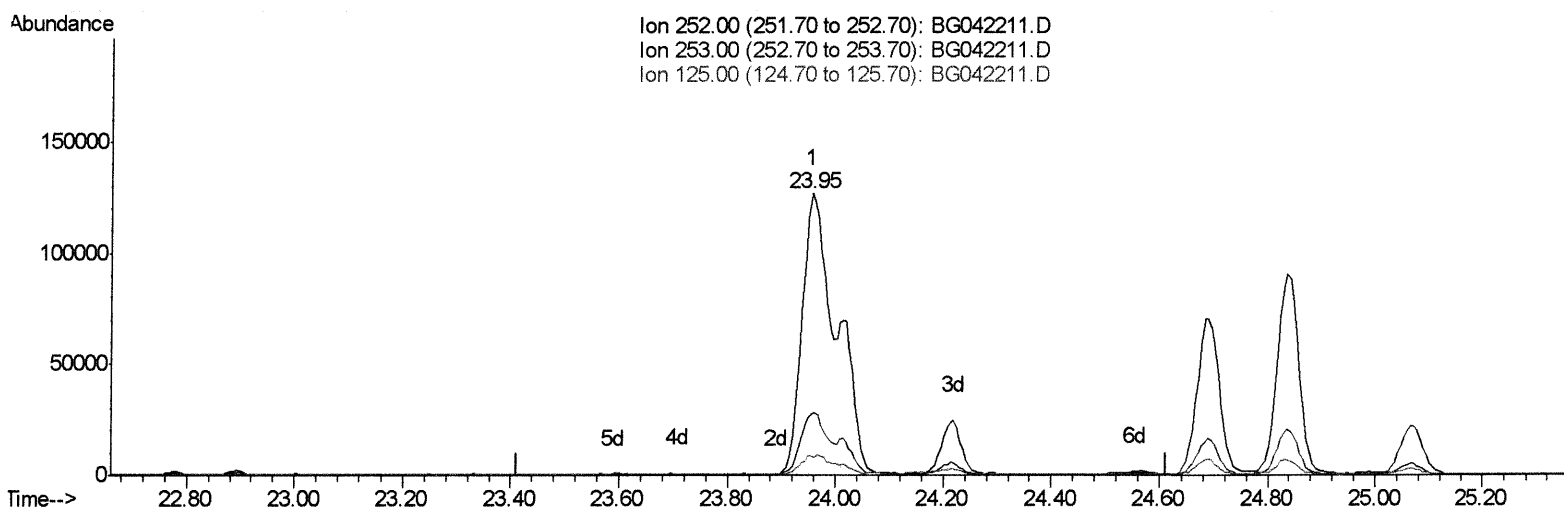
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 8/15/2019 5:12:11 PM

Quant Time: Aug 14 16:49:22 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  
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

23.954min (-0.059) 11.96ng/ul

response 427745

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.90 | 21.95 |
| 125.00 | 6.90  | 6.78  |
| 0.00   | 0.00  | 0.00  |

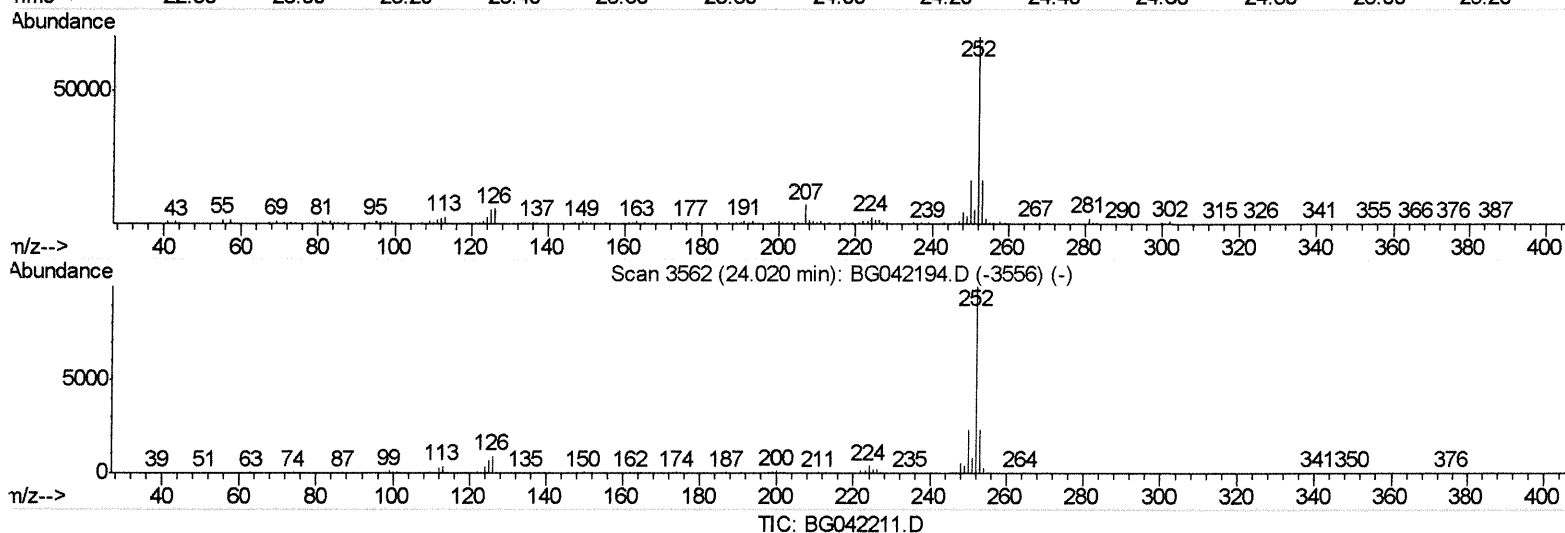
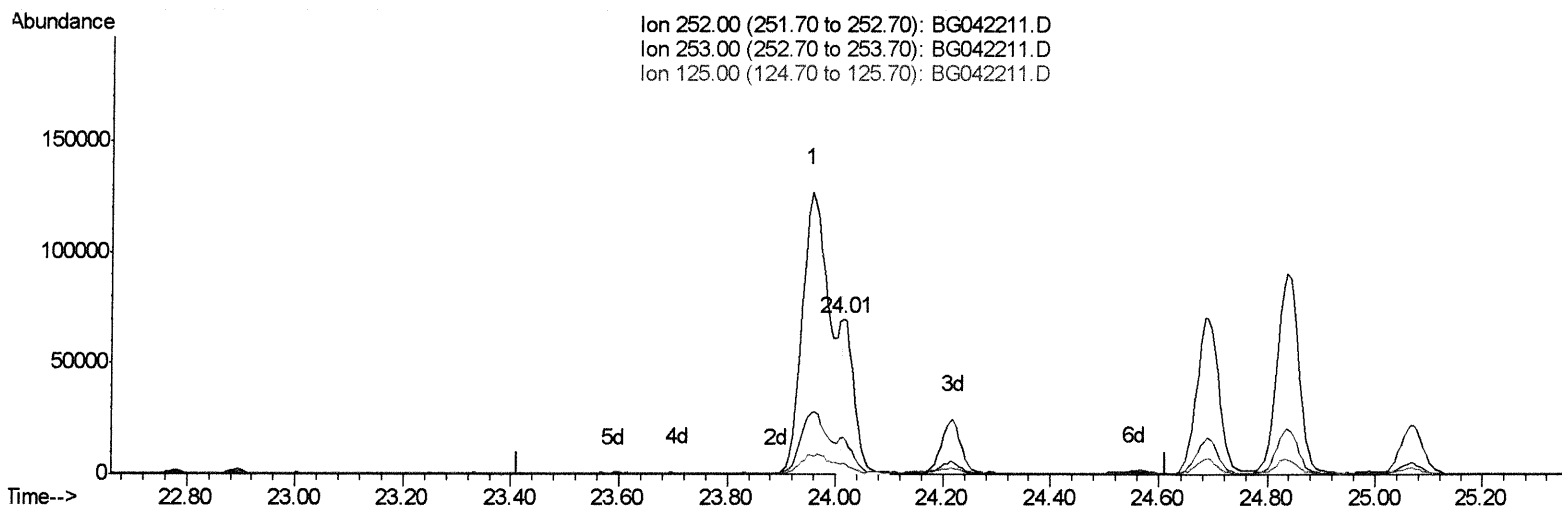
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Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB5P6

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:12:11 PM

Quant Time: Aug 14 16:49:22 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  
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

24.013min (-0.001) 3.89ng/ul m

JU  
 08/15/19

response 139135

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.90 | 23.81 |
| 125.00 | 6.90  | 7.82  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042211.D  
 Acq On : 14 Aug 2019 15:48  
 Operator : HP/JU  
 Sample : K4304-15  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampled :  
 CB5P6

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:12:11 PM

Quant Time: Aug 15 10:04:44 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  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 88335    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 364022   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.68 | 164  | 248486   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 508019   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 495026   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 592839   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 6113   | 3.03  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.18  | 99  | 140120 | 20.21 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 70143  | 18.09 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.56  | 132 | 128276 | 21.64 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 116688 | 20.05 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 64226  | 23.44 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 76863  | 24.16 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 141501 | 22.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 161866 | 22.71 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 432919 | 22.46 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 504561 | 22.92 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.88 | 143 | 54929  | 16.97 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 378971 | 22.10 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 50708  | 15.56 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 551574 | 22.63 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.83 | 212 | 652230 | 23.61 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.77 | 264 | 742821 | 23.99 | ng/ul | 0.00 |

#### Target Compounds

|                            |       |     |           |                           | Ovalue |
|----------------------------|-------|-----|-----------|---------------------------|--------|
| 28) Naphthalene            | 10.90 | 128 | 20726     | 1.114 ng/ul               | 95     |
| 44) Dimethylphthalate      | 14.13 | 163 | 81947     | 4.283 ng/ul               | 97     |
| 58) Fluorene               | 15.73 | 166 | 23091     | 1.236 ng/ul               | 96     |
| 69) Phenanthrene           | 17.48 | 178 | 400872    | 14.414 ng/ul              | 99     |
| 71) Anthracene             | 17.57 | 178 | 65668     | 2.328 ng/ul               | 99     |
| 76) Fluoranthene           | 19.49 | 202 | 656279    | 20.423 ng/ul              | 97     |
| 79) Pyrene                 | 19.85 | 202 | 516419    | 15.509 ng/ul              | 99     |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 312220    | 9.097 ng/ul               | 99     |
| 84) Chrysene               | 21.77 | 228 | 301478    | 9.411 ng/ul               | 98     |
| 87) Benzo(b)fluoranthene   | 23.95 | 252 | 427745    | 11.497 ng/ul              | 98     |
| 88) Benzo(k)fluoranthene   | 24.01 | 252 | 139135m → | 3.890 ng/ul → Ju 08/15/19 | 99     |
| 90) Benzo(a)pyrene         | 24.84 | 252 | 252457    | 7.121 ng/ul               | 99     |
| 91) Indeno(1,2,3-cd)pyrene | 28.71 | 276 | 163953    | 3.965 ng/ul               | 99     |
| 92) Dibenzo(a,h)anthracene | 28.77 | 278 | 45043     | 1.335 ng/ul               | 98     |
| 93) Benzo(a,h,i)perylene   | 29.88 | 276 | 127082    | 3.681 ng/ul#              | 95     |

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