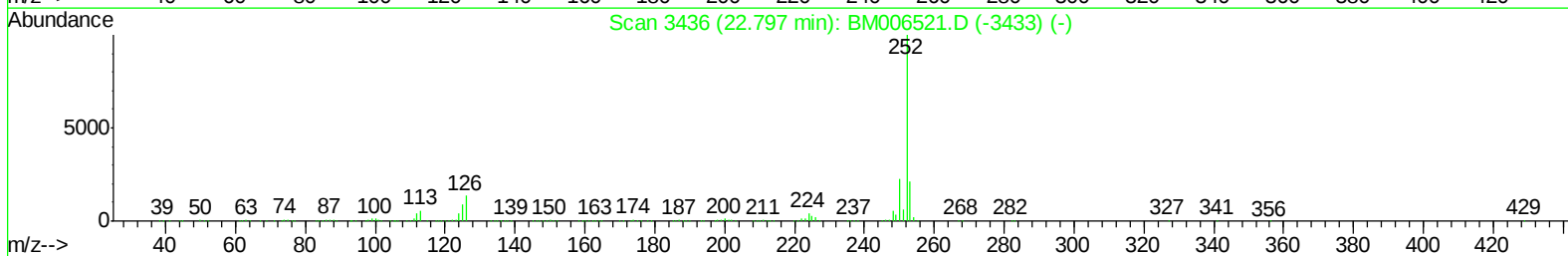
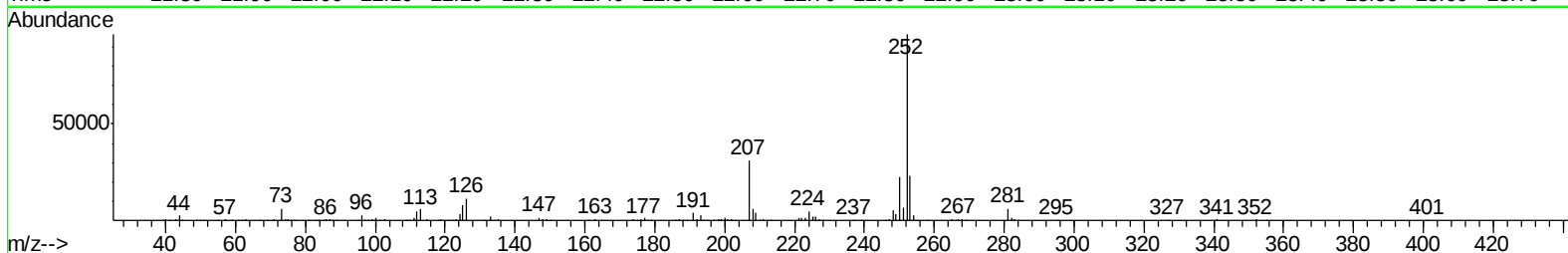
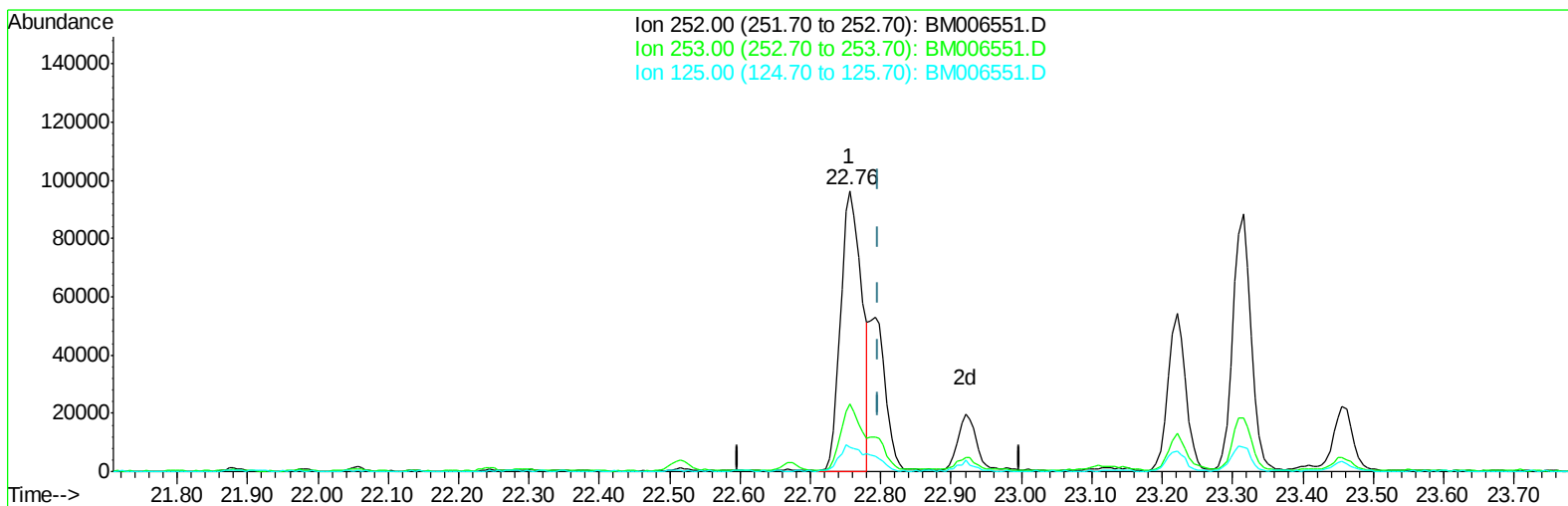


Data Path : Z:\HPCHEM1\BNA\_M\Data\BM071916\  
Data File : BM006551.D  
Acq On : 20 Jul 2016 12:31  
Operator : UM/SJ  
Sample : H3959-03DL 10X  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 20 15:10:03 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 20 04:22:37 2016  
Response via : Initial Calibration



TIC: BM006551.D

(86) Benzo(k)fluoranthene

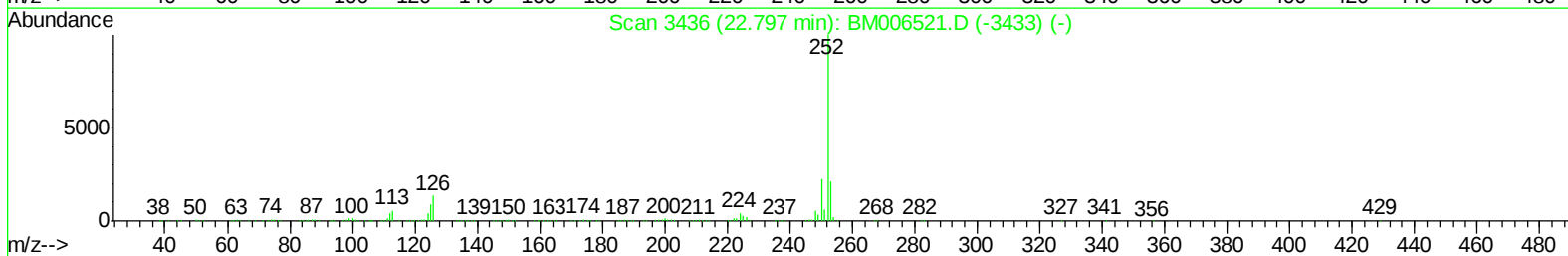
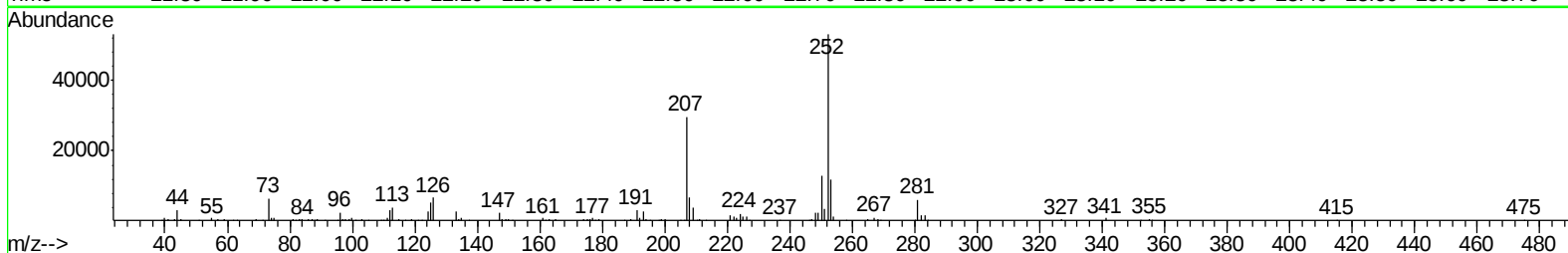
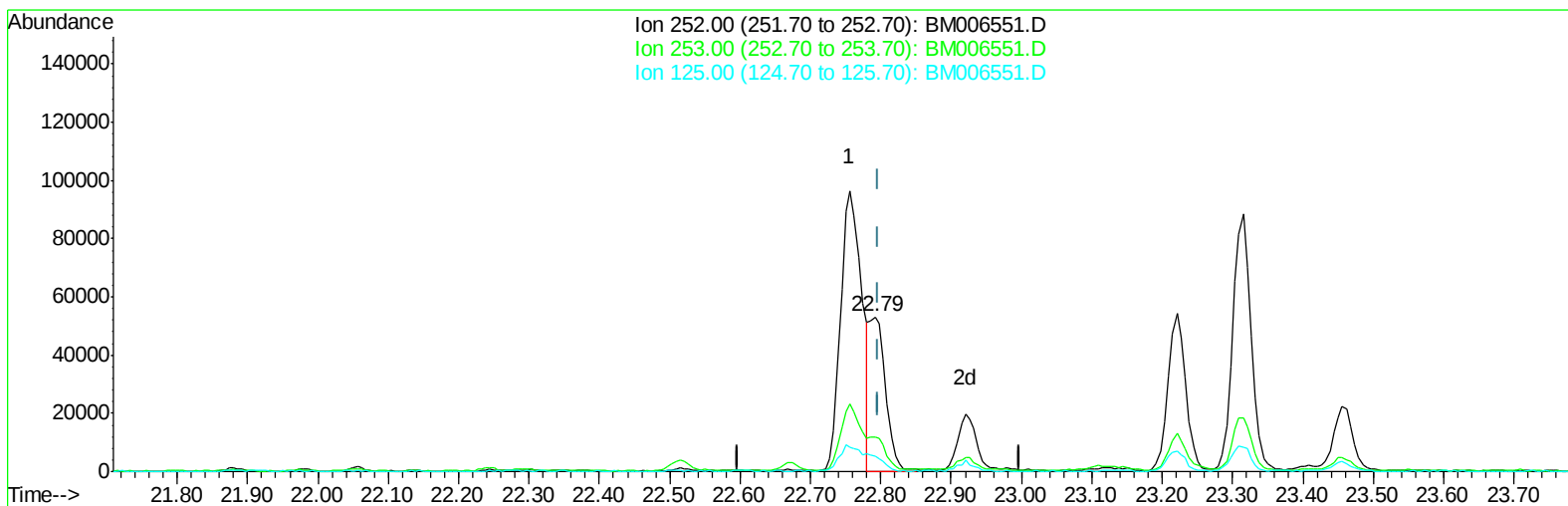
22.756min (-0.041) 3.75ng/ul

response 202608

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.60 | 24.06 |
| 125.00 | 8.70  | 8.80  |
| 0.00   | 0.00  | 0.00  |

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Response via : Initial Calibration



TIC: BM006551.D

(86) Benzo(k)fluoranthene

22.791min (-0.006) 1.57ng/ul m

response 84758

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.60 | 22.33 |
| 125.00 | 8.70  | 10.26 |
| 0.00   | 0.00  | 0.00  |

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 Operator : UM/SJ  
 Sample : H3959-03DL 10X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 20 15:11:47 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 20 04:22:37 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 130505   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.39 | 136  | 541452   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.26 | 164  | 304743   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.02 | 188  | 712265   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.22 | 240  | 878655   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.41 | 264  | 960876   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.14  | 96   | 178      | 0.06 | ng/uL | 0.00     |
| 5) Phenol-d5                   | 6.80  | 99   | 17765    | 1.66 | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67   | 13131    | 2.02 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.15  | 132  | 14623    | 1.69 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.33  | 113  | 13813    | 1.63 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 8.77  | 128  | 6145     | 1.50 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.49  | 143  | 5887     | 1.27 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165  | 12178    | 1.39 | ng/ul | 0.01     |
| 29) 4-Chloroaniline-d4         | 10.54 | 131  | 19811    | 2.16 | ng/ul | 0.00     |
| 43) Dimethylphthalate-d6       | 13.67 | 166  | 43918    | 1.76 | ng/ul | 0.00     |
| 46) Acenaphthylene-d8          | 13.96 | 160  | 54008    | 1.75 | ng/ul | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.51 | 143  | 1486     | 0.34 | ng/ul | 0.02     |
| 57) Fluorene-d10               | 15.26 | 176  | 44132    | 1.99 | ng/ul | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200  | 508      | 0.12 | ng/ul | 0.00     |
| 70) Anthracene-d10             | 17.11 | 188  | 65324    | 1.94 | ng/ul | 0.00     |
| 76) Pyrene-d10                 | 19.42 | 212  | 79069    | 1.98 | ng/ul | 0.00     |
| 87) Benzo(a)pyrene-d12         | 23.27 | 264  | 82253    | 1.87 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 28) Naphthalene            | 10.44 | 128  | 1374182  | 50.00 | ng/ul | 99     |
| 34) 2-Methylnaphthalene    | 12.06 | 142  | 94069    | 4.54  | ng/ul | 98     |
| 40) 1,1'-Biphenyl          | 13.09 | 154  | 25657    | 1.02  | ng/ul | 95     |
| 49) Acenaphthene           | 14.33 | 153  | 173456   | 8.39  | ng/ul | 98     |
| 53) Dibenzofuran           | 14.66 | 168  | 125755   | 4.18  | ng/ul | 99     |
| 58) Fluorene               | 15.32 | 166  | 125910   | 5.23  | ng/ul | 98     |
| 69) Phenanthrene           | 17.06 | 178  | 660315   | 16.86 | ng/ul | 99     |
| 71) Anthracene             | 17.14 | 178  | 191604   | 4.76  | ng/ul | 99     |
| 74) Fluoranthene           | 19.08 | 202  | 594613   | 13.06 | ng/ul | 99     |
| 77) Pyrene                 | 19.44 | 202  | 449929   | 8.58  | ng/ul | 99     |
| 80) Benzo(a)anthracene     | 21.20 | 228  | 200480   | 3.74  | ng/ul | 97     |
| 82) Chrysene               | 21.25 | 228  | 173768   | 3.44  | ng/ul | 95     |
| 85) Benzo(b)fluoranthene   | 22.76 | 252  | 202608   | 3.53  | ng/ul | 96     |
| 86) Benzo(k)fluoranthene   | 22.79 | 252  | 84758m   | 1.57  | ng/ul |        |
| 88) Benzo(a)pyrene         | 23.31 | 252  | 159665   | 2.90  | ng/ul | 99     |
| 89) Indeno(1,2,3-cd)pyrene | 25.60 | 276  | 94702    | 1.48  | ng/ul | 97     |
| 91) Benzo(g,h,i)perylene   | 26.27 | 276  | 78343    | 1.39  | ng/ul | 96     |

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

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