

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG120120\  
 Data File : BG047529.D  
 Acq On : 2 Dec 2020 13:21  
 Operator : CG/JU  
 Sample : L4865-05  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B77

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.886       | 91            | 93          | 95           | rBV2     | 2876           | 2942          | 0.36%           | 0.037%        |
| 2         | 4.145       | 133           | 137         | 141          | rVB5     | 5490           | 7068          | 0.87%           | 0.088%        |
| 3         | 4.221       | 148           | 150         | 153          | rVB      | 2974           | 2218          | 0.27%           | 0.028%        |
| 4         | 4.280       | 156           | 160         | 168          | rBV2     | 5972           | 12071         | 1.48%           | 0.150%        |
| 5         | 4.550       | 203           | 206         | 207          | rBV      | 2725           | 2427          | 0.30%           | 0.030%        |
| 6         | 4.809       | 246           | 250         | 251          | rBV      | 1743           | 2060          | 0.25%           | 0.026%        |
| 7         | 4.826       | 251           | 253         | 256          | rVV3     | 1736           | 2083          | 0.26%           | 0.026%        |
| 8         | 5.314       | 332           | 336         | 340          | rBV3     | 7547           | 12070         | 1.48%           | 0.150%        |
| 9         | 5.637       | 387           | 391         | 392          | rBV3     | 1779           | 2377          | 0.29%           | 0.030%        |
| 10        | 6.624       | 556           | 559         | 561          | rBV      | 3002           | 3254          | 0.40%           | 0.040%        |
| 11        | 6.941       | 611           | 613         | 617          | rVB      | 2123           | 2178          | 0.27%           | 0.027%        |
| 12        | 7.000       | 619           | 623         | 626          | rBV      | 1723           | 1965          | 0.24%           | 0.024%        |
| 13        | 7.394       | 682           | 690         | 704          | rVB4     | 85387          | 174587        | 21.40%          | 2.167%        |
| 14        | 7.576       | 715           | 721         | 729          | rBV      | 54954          | 93343         | 11.44%          | 1.159%        |
| 15        | 7.788       | 751           | 757         | 765          | rVB2     | 85772          | 151477        | 18.57%          | 1.880%        |
| 16        | 7.852       | 765           | 768         | 771          | rVB      | 2883           | 3200          | 0.39%           | 0.040%        |
| 17        | 8.263       | 832           | 838         | 850          | rVB      | 111776         | 201917        | 24.75%          | 2.507%        |
| 18        | 8.399       | 857           | 861         | 865          | rBV2     | 6343           | 8094          | 0.99%           | 0.100%        |
| 19        | 8.575       | 887           | 891         | 896          | rVB4     | 8930           | 11355         | 1.39%           | 0.141%        |
| 20        | 8.786       | 924           | 927         | 931          | rBV4     | 1848           | 2209          | 0.27%           | 0.027%        |
| 21        | 8.951       | 945           | 955         | 965          | rBV3     | 93962          | 166927        | 20.46%          | 2.072%        |
| 22        | 9.245       | 1003          | 1005        | 1007         | rBV3     | 2713           | 2423          | 0.30%           | 0.030%        |
| 23        | 9.433       | 1030          | 1037        | 1045         | rBV      | 87347          | 161515        | 19.80%          | 2.005%        |
| 24        | 9.838       | 1103          | 1106        | 1112         | rVB3     | 7389           | 10331         | 1.27%           | 0.128%        |
| 25        | 10.155      | 1154          | 1160        | 1170         | rVB2     | 82603          | 159069        | 19.50%          | 1.975%        |
| 26        | 10.696      | 1242          | 1252        | 1261         | rBV      | 118223         | 219944        | 26.96%          | 2.730%        |
| 27        | 11.090      | 1312          | 1319        | 1328         | rBV      | 150994         | 276179        | 33.86%          | 3.428%        |
| 28        | 11.213      | 1331          | 1340        | 1347         | rBV3     | 72669          | 140332        | 17.20%          | 1.742%        |
| 29        | 12.400      | 1539          | 1542        | 1547         | rBV3     | 1650           | 2470          | 0.30%           | 0.031%        |
| 30        | 12.494      | 1553          | 1558        | 1564         | rVB2     | 7649           | 12336         | 1.51%           | 0.153%        |
| 31        | 12.934      | 1632          | 1633        | 1636         | rBV2     | 1865           | 2102          | 0.26%           | 0.026%        |
| 32        | 13.393      | 1709          | 1711        | 1715         | rBV2     | 2250           | 2522          | 0.31%           | 0.031%        |
| 33        | 13.469      | 1722          | 1724        | 1727         | rBV2     | 2098           | 2715          | 0.33%           | 0.034%        |
| 34        | 13.687      | 1759          | 1761        | 1764         | rBV      | 2997           | 2326          | 0.29%           | 0.029%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.757 | 1770 | 1773 | 1777 | rVB3 | 2625   | 3525   | 0.43%  | 0.044% |
| 36 | 14.174 | 1840 | 1844 | 1845 | rBV3 | 2063   | 2014   | 0.25%  | 0.025% |
| 37 | 14.209 | 1848 | 1850 | 1852 | rVV  | 3404   | 3178   | 0.39%  | 0.039% |
| 38 | 14.268 | 1852 | 1860 | 1864 | rVV  | 234559 | 343499 | 42.11% | 4.264% |
| 39 | 14.309 | 1864 | 1867 | 1877 | rVB  | 50114  | 75992  | 9.32%  | 0.943% |
| 40 | 14.574 | 1905 | 1912 | 1920 | rVB  | 226037 | 366440 | 44.92% | 4.549% |
| 41 | 14.750 | 1939 | 1942 | 1946 | rBV  | 1944   | 2670   | 0.33%  | 0.033% |
| 42 | 14.873 | 1953 | 1963 | 1970 | rBV2 | 253480 | 408647 | 50.09% | 5.073% |
| 43 | 14.944 | 1971 | 1975 | 1979 | rVB2 | 9277   | 13665  | 1.68%  | 0.170% |
| 44 | 15.032 | 1984 | 1990 | 1997 | rBV2 | 108998 | 179322 | 21.98% | 2.226% |
| 45 | 15.191 | 2015 | 2017 | 2021 | rVB3 | 4856   | 4453   | 0.55%  | 0.055% |
| 46 | 15.273 | 2027 | 2031 | 2035 | rVB  | 12138  | 15577  | 1.91%  | 0.193% |
| 47 | 15.614 | 2086 | 2089 | 2092 | rBV  | 2294   | 2826   | 0.35%  | 0.035% |
| 48 | 15.696 | 2102 | 2103 | 2106 | rVB  | 2756   | 2107   | 0.26%  | 0.026% |
| 49 | 15.860 | 2124 | 2131 | 2137 | rBV2 | 310548 | 475985 | 58.35% | 5.909% |
| 50 | 15.907 | 2137 | 2139 | 2143 | rVV2 | 10780  | 15636  | 1.92%  | 0.194% |
| 51 | 15.960 | 2143 | 2148 | 2157 | rVV2 | 103071 | 158380 | 19.42% | 1.966% |
| 52 | 16.095 | 2167 | 2171 | 2175 | rVB5 | 3809   | 6444   | 0.79%  | 0.080% |
| 53 | 16.301 | 2203 | 2206 | 2207 | rBV5 | 2455   | 2093   | 0.26%  | 0.026% |
| 54 | 16.325 | 2207 | 2210 | 2212 | rBV  | 2192   | 3213   | 0.39%  | 0.040% |
| 55 | 16.342 | 2212 | 2213 | 2217 | rBV2 | 3733   | 5564   | 0.68%  | 0.069% |
| 56 | 16.842 | 2294 | 2298 | 2299 | rBV  | 4208   | 4771   | 0.58%  | 0.059% |
| 57 | 17.141 | 2344 | 2349 | 2353 | rBV3 | 5664   | 8870   | 1.09%  | 0.110% |
| 58 | 17.259 | 2364 | 2369 | 2378 | rVB2 | 22109  | 35914  | 4.40%  | 0.446% |
| 59 | 17.335 | 2378 | 2382 | 2385 | rBV4 | 4927   | 7960   | 0.98%  | 0.099% |
| 60 | 17.429 | 2394 | 2398 | 2402 | rBV2 | 10796  | 13507  | 1.66%  | 0.168% |
| 61 | 17.611 | 2423 | 2429 | 2433 | rBV  | 363049 | 556897 | 68.27% | 6.913% |
| 62 | 17.652 | 2433 | 2436 | 2441 | rVB  | 254920 | 344332 | 42.21% | 4.274% |
| 63 | 17.711 | 2441 | 2446 | 2451 | rBV2 | 308143 | 488916 | 59.93% | 6.069% |
| 64 | 17.805 | 2491 | 2496 | 2503 | rVB  | 26684  | 42473  | 5.21%  | 0.527% |
| 65 | 18.123 | 2514 | 2516 | 2523 | rVB2 | 5288   | 8390   | 1.03%  | 0.104% |
| 66 | 18.381 | 2558 | 2560 | 2561 | rBV2 | 3287   | 2432   | 0.30%  | 0.030% |
| 67 | 18.481 | 2572 | 2577 | 2581 | rBV2 | 24893  | 39163  | 4.80%  | 0.486% |
| 68 | 18.528 | 2581 | 2585 | 2591 | rVB  | 39289  | 62593  | 7.67%  | 0.777% |
| 69 | 18.681 | 2605 | 2611 | 2614 | rBV3 | 28589  | 57178  | 7.01%  | 0.710% |
| 70 | 18.969 | 2656 | 2660 | 2663 | rBV  | 22894  | 36059  | 4.42%  | 0.448% |
| 71 | 19.004 | 2663 | 2666 | 2672 | rVB  | 71135  | 98023  | 12.02% | 1.217% |

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ALS Vial : 42 Sample Multiplier: 1

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Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 72 | 19.204 | 2696 | 2700 | 2704 | rBV4 | 8489   | 13731  | 1.68%   | 0.170%  |
| 73 | 19.380 | 2726 | 2730 | 2735 | rBV5 | 19810  | 30806  | 3.78%   | 0.382%  |
| 74 | 19.521 | 2750 | 2754 | 2760 | rVB2 | 26241  | 40205  | 4.93%   | 0.499%  |
| 75 | 19.644 | 2769 | 2775 | 2781 | rVB  | 411670 | 582386 | 71.39%  | 7.229%  |
| 76 | 19.973 | 2825 | 2831 | 2834 | rBV2 | 502612 | 815761 | 100.00% | 10.126% |
| 77 | 21.501 | 3088 | 3091 | 3097 | rBV4 | 60627  | 89184  | 10.93%  | 1.107%  |
| 78 | 21.895 | 3151 | 3158 | 3163 | rBV2 | 353032 | 724865 | 88.86%  | 8.998%  |

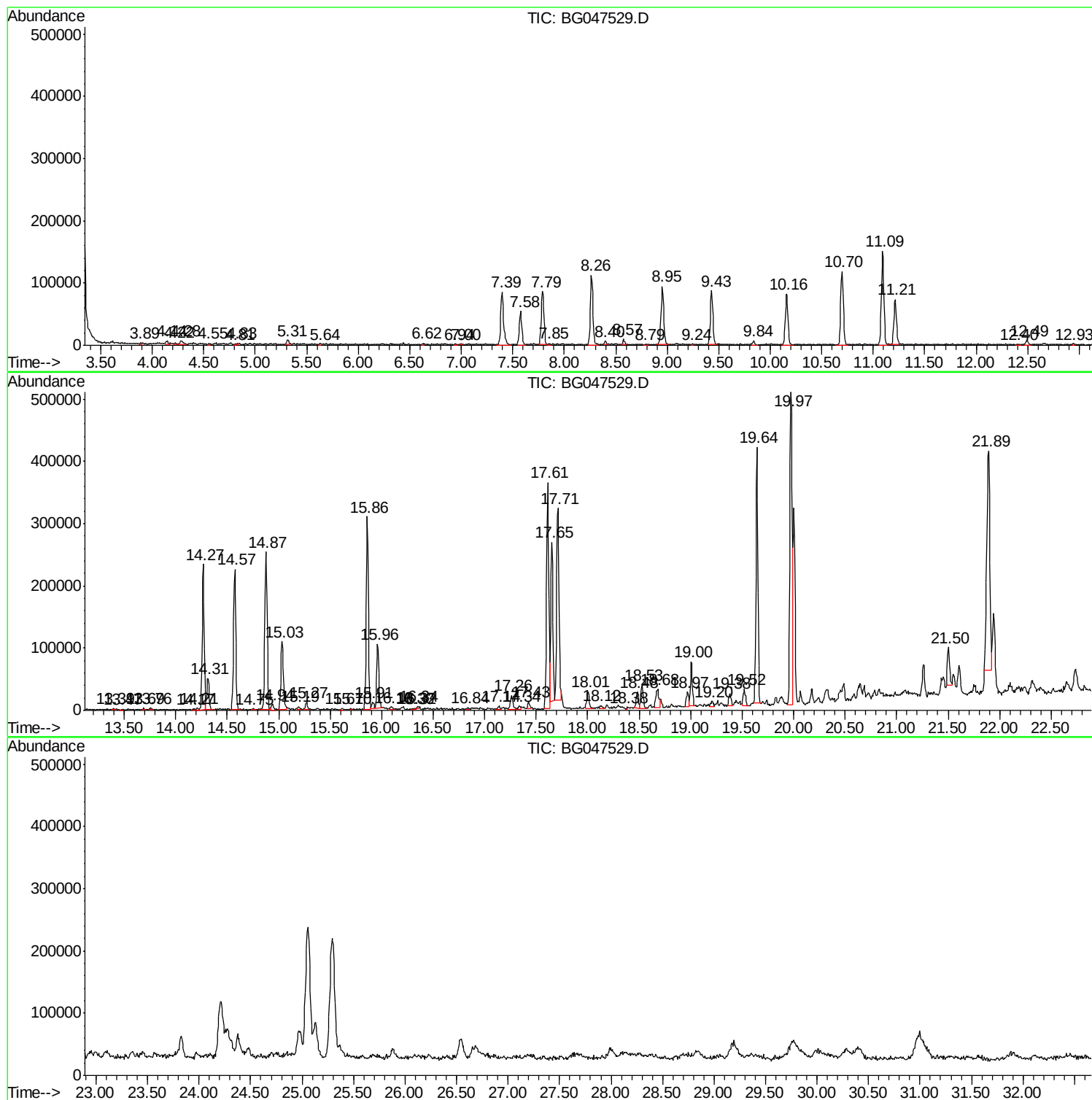
Sum of corrected areas: 8055732

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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Sample : L4865-05  
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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Quant Title : SVOA CALIBRATION

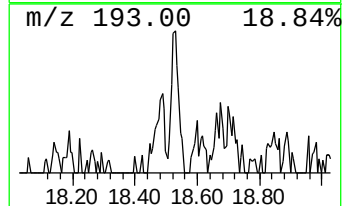
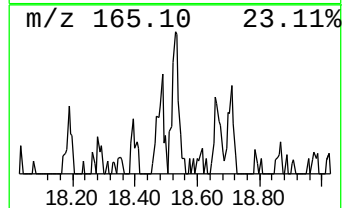
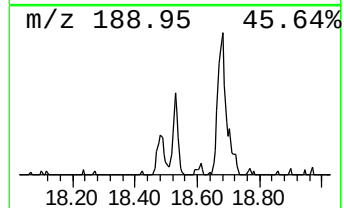
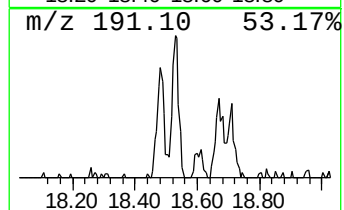
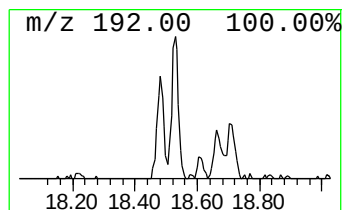
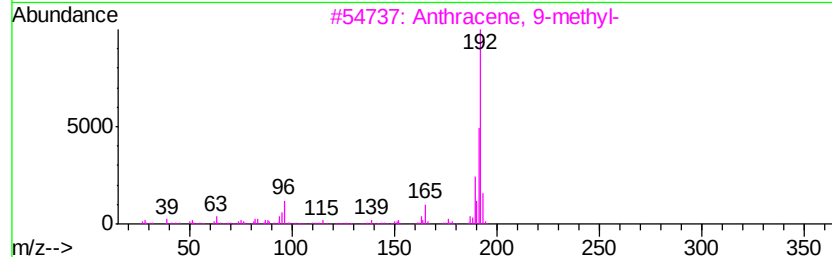
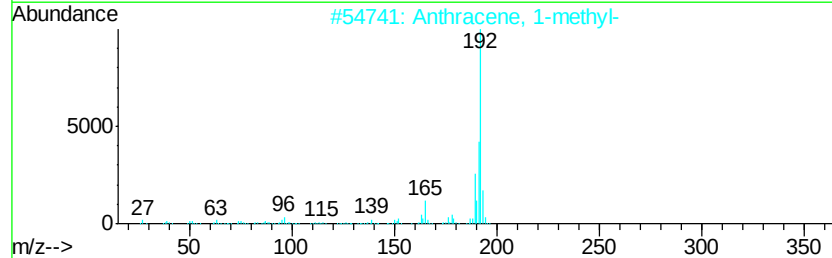
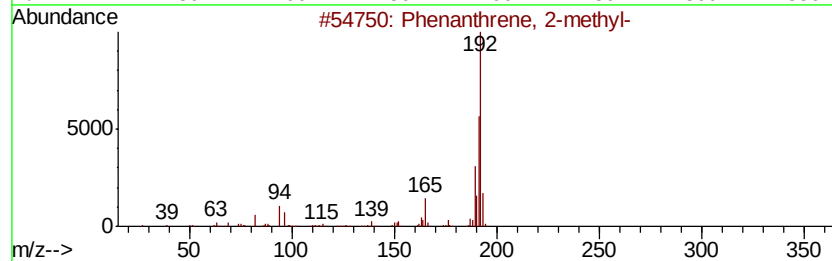
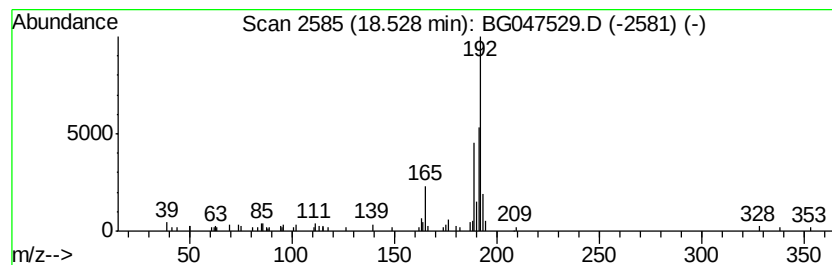
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 18.53 | 2.25 ng/ul | 62593 | Phenanthrene-d10 | 17.61 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 2       |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |
| 3       |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 93   |
| 4       |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 76   |
| 5       |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 76   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Quant Title : SVOA CALIBRATION

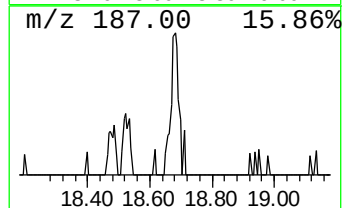
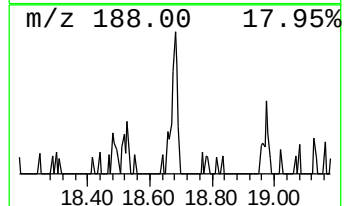
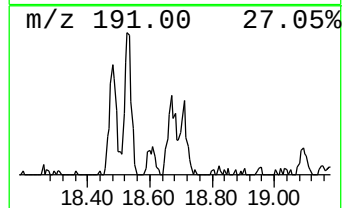
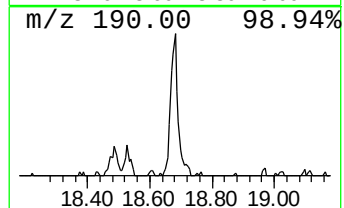
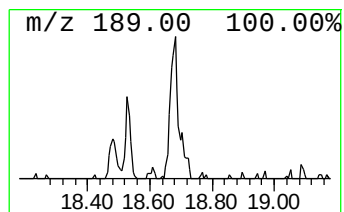
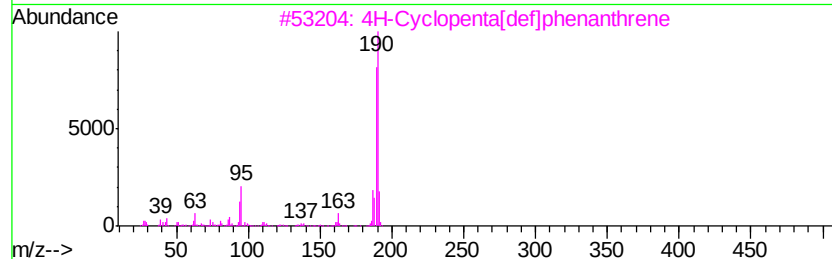
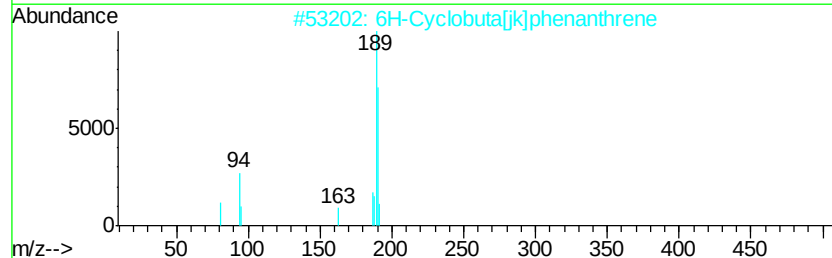
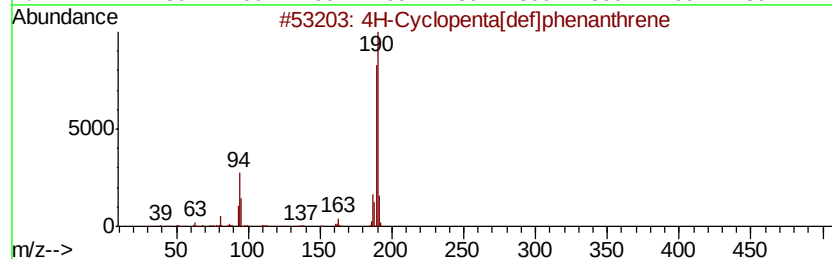
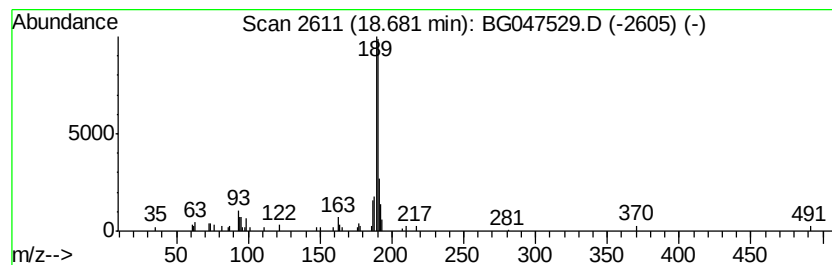
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 18.68 | 2.05 ng/ul | 57178 | Phenanthrene-d10 | 17.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 83   |
| 2    |    | 6H-Cyclobuta[ik]phenanthrene        | 190 | C15H10    | 083469-43-6 | 72   |
| 3    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 72   |
| 4    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 52   |
| 5    |    | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O | 306936-57-2 | 38   |



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Quant Title : SVOA CALIBRATION

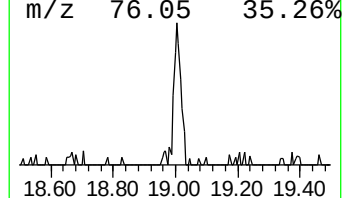
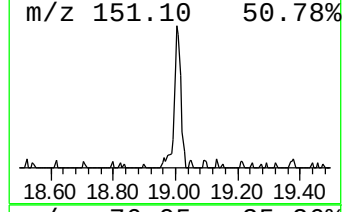
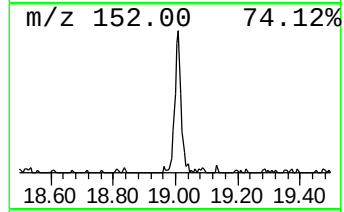
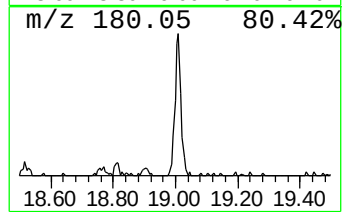
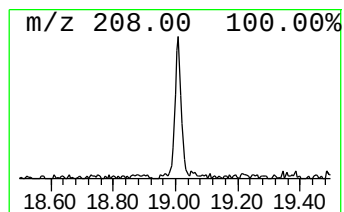
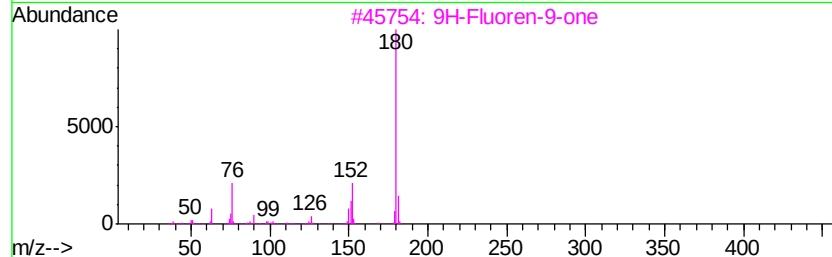
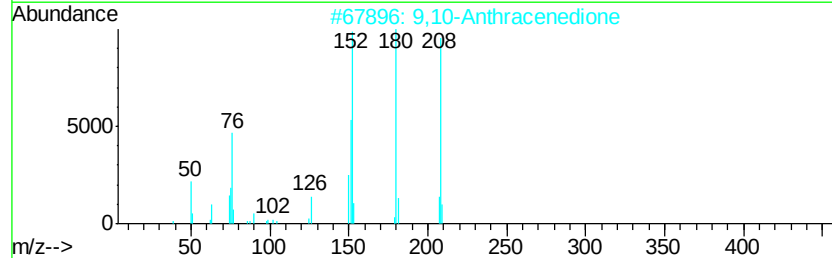
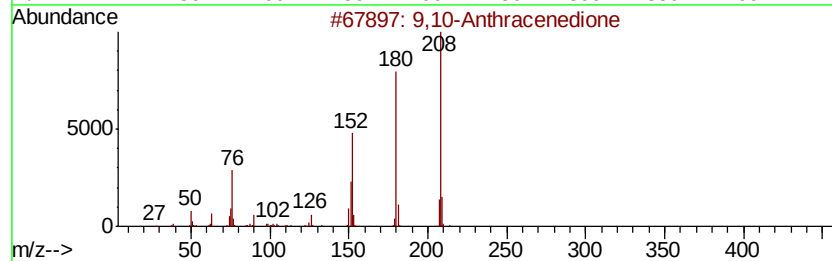
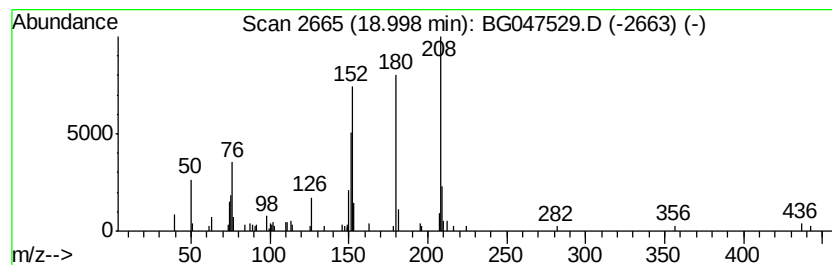
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 9,10-Anthracenedione Concentration Rank 1

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 19.00 | 3.52 ng/ul | 98023 | Phenanthrene-d10 | 17.61 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94   |
| 2    |    | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94   |
| 3    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 86   |
| 4    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 86   |
| 5    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG120120\  
Data File : BG047529.D  
Acq On : 2 Dec 2020 13:21  
Operator : CG/JU  
Sample : L4865-05  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C0B77

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Quant Title : SVOA CALIBRATION

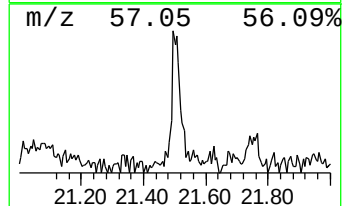
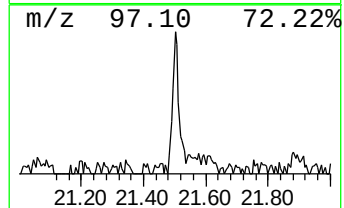
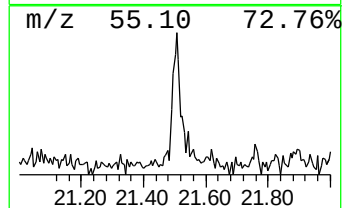
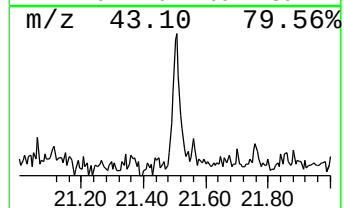
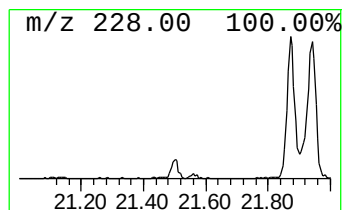
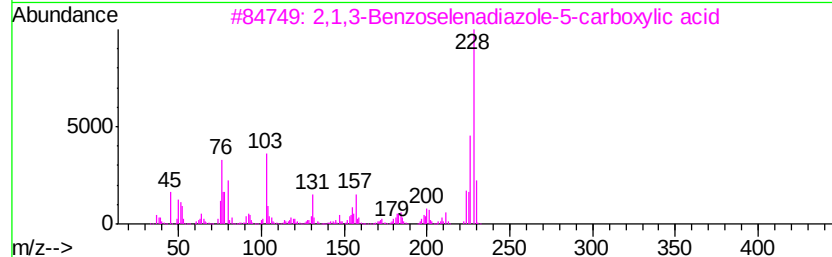
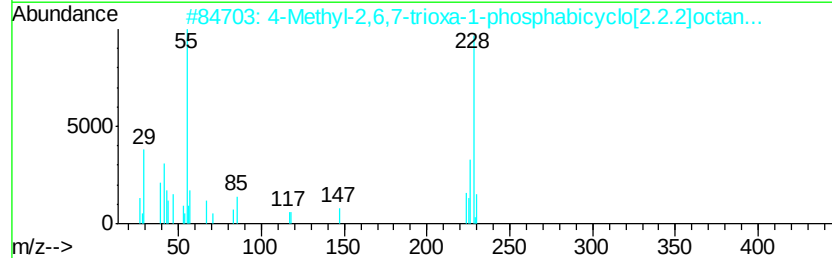
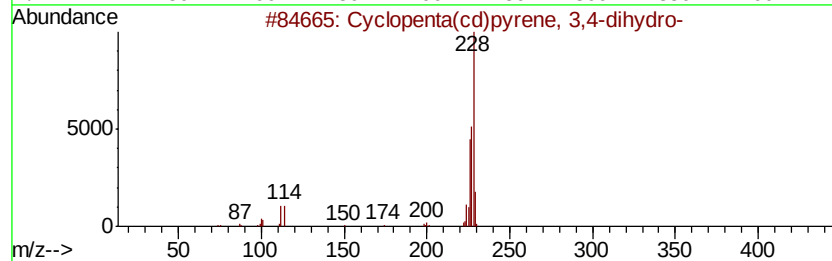
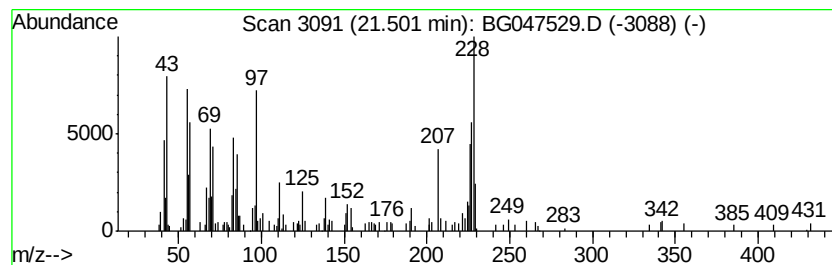
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown21.50 Concentration Rank 2

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 21.50 | 2.46 ng/ul | 89184 | Chrysene-d12     | 21.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Cyclopenta(cd)pyrene, 3,4-dihydro-  | 228 | C18H12     | 025732-74-5 | 27   |
| 2    |    | 4-Methyl-2,6,7-trioxa-1-phosphab... | 228 | C5H9O3PSe  | 067471-54-9 | 27   |
| 3    |    | 2,1,3-Benzoselenadiazole-5-carbo... | 228 | C7H4N2O2Se | 140669-75-6 | 22   |
| 4    |    | Benzo[cl]phenanthrene               | 228 | C18H12     | 000195-19-7 | 22   |
| 5    |    | 3,6-Phenanthrenedicarbonitrile      | 228 | C16H8N2    | 018930-78-4 | 18   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120120\  
Data File : BG047529.D  
Acq On : 2 Dec 2020 13:21  
Operator : CG/JU  
Sample : L4865-05  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C0B77

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Phenanthrene, 2-m... | 18.53 | 2.3     | ng/ul | 62593    | 4                     | 17.61 | 556897 | 20.0 |
| 4H-Cyclopenta[def... | 18.68 | 2.0     | ng/ul | 57178    | 4                     | 17.61 | 556897 | 20.0 |
| 9,10-Anthracenedione | 19.00 | 3.5     | ng/ul | 98023    | 4                     | 17.61 | 556897 | 20.0 |
| unknown21.50         | 21.50 | 2.5     | ng/ul | 89184    | 5                     | 21.89 | 724865 | 20.0 |