

Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
 Data File : BG033606.D  
 Acq On : 5 Apr 2018 23:34  
 Operator : SJ/JU  
 Sample : J2197-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRUM-WATER

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 3.476       | 25            | 32          | 43           | rBV3     | 122192         | 299117        | 6.21%           | 0.523%        |
| 2         | 3.564       | 43            | 47          | 61           | rVB      | 118777         | 188973        | 3.93%           | 0.331%        |
| 3         | 4.387       | 180           | 187         | 196          | rBV      | 80328          | 143227        | 2.98%           | 0.251%        |
| 4         | 5.762       | 414           | 421         | 435          | rBV2     | 298154         | 538388        | 11.19%          | 0.942%        |
| 5         | 6.285       | 504           | 510         | 524          | rBV      | 314088         | 670579        | 13.93%          | 1.173%        |
| 6         | 7.995       | 794           | 801         | 820          | rBV2     | 209273         | 540006        | 11.22%          | 0.945%        |
| 7         | 8.347       | 852           | 861         | 864          | rBV      | 1127518        | 2046039       | 42.51%          | 3.579%        |
| 8         | 8.400       | 867           | 870         | 879          | rVV      | 934012         | 1559531       | 32.40%          | 2.728%        |
| 9         | 8.476       | 879           | 883         | 893          | rVV6     | 37658          | 82270         | 1.71%           | 0.144%        |
| 10        | 8.611       | 897           | 906         | 920          | rVV      | 2394842        | 4813381       | 100.00%         | 8.420%        |
| 11        | 8.811       | 933           | 940         | 945          | rBV      | 340619         | 656514        | 13.64%          | 1.148%        |
| 12        | 8.858       | 945           | 948         | 958          | rVB      | 137089         | 262954        | 5.46%           | 0.460%        |
| 13        | 9.193       | 998           | 1005        | 1021         | rBV2     | 540712         | 1062787       | 22.08%          | 1.859%        |
| 14        | 9.980       | 1134          | 1139        | 1146         | rBV2     | 34681          | 58763         | 1.22%           | 0.103%        |
| 15        | 10.063      | 1146          | 1153        | 1171         | rBV2     | 513282         | 1218226       | 25.31%          | 2.131%        |
| 16        | 10.580      | 1235          | 1241        | 1245         | rVV2     | 39816          | 71854         | 1.49%           | 0.126%        |
| 17        | 10.897      | 1287          | 1295        | 1300         | rBV7     | 38784          | 106646        | 2.22%           | 0.187%        |
| 18        | 11.109      | 1323          | 1331        | 1337         | rBV4     | 148849         | 303211        | 6.30%           | 0.530%        |
| 19        | 11.355      | 1368          | 1373        | 1379         | rBV2     | 117918         | 223416        | 4.64%           | 0.391%        |
| 20        | 11.649      | 1416          | 1423        | 1428         | rBV      | 224064         | 400586        | 8.32%           | 0.701%        |
| 21        | 11.743      | 1434          | 1439        | 1449         | rVB      | 203372         | 460672        | 9.57%           | 0.806%        |
| 22        | 11.831      | 1449          | 1454        | 1462         | rVB2     | 141851         | 255386        | 5.31%           | 0.447%        |
| 23        | 11.919      | 1462          | 1469        | 1475         | rBV6     | 40417          | 90113         | 1.87%           | 0.158%        |
| 24        | 12.084      | 1485          | 1497        | 1504         | rBV6     | 20797          | 83903         | 1.74%           | 0.147%        |
| 25        | 12.190      | 1510          | 1515        | 1523         | rVB      | 90375          | 156575        | 3.25%           | 0.274%        |
| 26        | 12.301      | 1528          | 1534        | 1541         | rBV2     | 74797          | 150736        | 3.13%           | 0.264%        |
| 27        | 12.389      | 1542          | 1549        | 1559         | rVB7     | 109980         | 284179        | 5.90%           | 0.497%        |
| 28        | 12.489      | 1560          | 1566        | 1569         | rBV6     | 41414          | 78095         | 1.62%           | 0.137%        |
| 29        | 12.572      | 1576          | 1580        | 1583         | rBV2     | 48230          | 66690         | 1.39%           | 0.117%        |
| 30        | 12.613      | 1583          | 1587        | 1591         | rVV2     | 78114          | 121314        | 2.52%           | 0.212%        |
| 31        | 12.666      | 1591          | 1596        | 1601         | rVB      | 142439         | 207435        | 4.31%           | 0.363%        |
| 32        | 12.730      | 1602          | 1607        | 1613         | rBV8     | 32150          | 62944         | 1.31%           | 0.110%        |
| 33        | 12.795      | 1614          | 1618        | 1624         | rVB      | 86550          | 150819        | 3.13%           | 0.264%        |
| 34        | 12.883      | 1627          | 1633        | 1641         | rBV2     | 268248         | 492083        | 10.22%          | 0.861%        |

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Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.047 | 1656 | 1661 | 1672 | rBV2 | 481630  | 843778  | 17.53% | 1.476% |
| 36 | 13.230 | 1687 | 1692 | 1700 | rVB3 | 196997  | 362190  | 7.52%  | 0.634% |
| 37 | 13.576 | 1745 | 1751 | 1755 | rBV2 | 238304  | 420785  | 8.74%  | 0.736% |
| 38 | 13.658 | 1761 | 1765 | 1769 | rVB6 | 89107   | 141846  | 2.95%  | 0.248% |
| 39 | 13.835 | 1787 | 1795 | 1799 | rBV4 | 186057  | 386339  | 8.03%  | 0.676% |
| 40 | 13.876 | 1799 | 1802 | 1806 | rVV2 | 68738   | 102899  | 2.14%  | 0.180% |
| 41 | 13.917 | 1806 | 1809 | 1813 | rVV2 | 79374   | 108435  | 2.25%  | 0.190% |
| 42 | 13.970 | 1814 | 1818 | 1823 | rVV3 | 201498  | 310909  | 6.46%  | 0.544% |
| 43 | 14.029 | 1825 | 1828 | 1834 | rVB2 | 75817   | 126919  | 2.64%  | 0.222% |
| 44 | 14.105 | 1835 | 1841 | 1850 | rBV  | 1552082 | 2541018 | 52.79% | 4.445% |
| 45 | 14.252 | 1860 | 1866 | 1873 | rBV  | 811411  | 1244712 | 25.86% | 2.177% |
| 46 | 14.334 | 1877 | 1880 | 1884 | rVB5 | 53022   | 83884   | 1.74%  | 0.147% |
| 47 | 14.416 | 1889 | 1894 | 1899 | rVV  | 238894  | 435096  | 9.04%  | 0.761% |
| 48 | 14.469 | 1900 | 1903 | 1913 | rVB4 | 85326   | 185252  | 3.85%  | 0.324% |
| 49 | 14.628 | 1926 | 1930 | 1934 | rBV6 | 77627   | 146716  | 3.05%  | 0.257% |
| 50 | 14.769 | 1945 | 1954 | 1956 | rBV6 | 143175  | 356843  | 7.41%  | 0.624% |
| 51 | 14.804 | 1956 | 1960 | 1964 | rVB2 | 159862  | 239851  | 4.98%  | 0.420% |
| 52 | 14.892 | 1970 | 1975 | 1980 | rBV3 | 362757  | 593893  | 12.34% | 1.039% |
| 53 | 15.016 | 1992 | 1996 | 1999 | rBV3 | 119441  | 207681  | 4.31%  | 0.363% |
| 54 | 15.104 | 2008 | 2011 | 2016 | rVB4 | 77436   | 106943  | 2.22%  | 0.187% |
| 55 | 15.304 | 2040 | 2045 | 2053 | rVB  | 1067406 | 1452709 | 30.18% | 2.541% |
| 56 | 15.474 | 2070 | 2074 | 2084 | rVB2 | 386719  | 713240  | 14.82% | 1.248% |
| 57 | 15.797 | 2125 | 2129 | 2134 | rVB4 | 119058  | 183342  | 3.81%  | 0.321% |
| 58 | 15.850 | 2134 | 2138 | 2142 | rBV2 | 126474  | 163553  | 3.40%  | 0.286% |
| 59 | 15.909 | 2144 | 2148 | 2152 | rBV2 | 175860  | 278370  | 5.78%  | 0.487% |
| 60 | 15.979 | 2158 | 2160 | 2164 | rVB  | 109265  | 130033  | 2.70%  | 0.227% |
| 61 | 16.073 | 2171 | 2176 | 2182 | rBV7 | 115569  | 291145  | 6.05%  | 0.509% |
| 62 | 16.244 | 2200 | 2205 | 2210 | rBV  | 1272267 | 1611668 | 33.48% | 2.819% |
| 63 | 16.302 | 2211 | 2215 | 2219 | rVB5 | 99912   | 153377  | 3.19%  | 0.268% |
| 64 | 16.643 | 2266 | 2273 | 2278 | rBV  | 451320  | 869926  | 18.07% | 1.522% |
| 65 | 16.737 | 2287 | 2289 | 2292 | rBV3 | 50775   | 60512   | 1.26%  | 0.106% |
| 66 | 16.790 | 2295 | 2298 | 2301 | rVV  | 76766   | 81597   | 1.70%  | 0.143% |
| 67 | 16.866 | 2307 | 2311 | 2319 | rVB3 | 141539  | 239431  | 4.97%  | 0.419% |
| 68 | 16.949 | 2319 | 2325 | 2333 | rBV  | 1230294 | 2188368 | 45.46% | 3.828% |
| 69 | 17.096 | 2346 | 2350 | 2360 | rBV  | 1246098 | 2381292 | 49.47% | 4.165% |
| 70 | 17.243 | 2372 | 2375 | 2377 | rBV3 | 58032   | 72349   | 1.50%  | 0.127% |
| 71 | 17.436 | 2404 | 2408 | 2412 | rBV2 | 95839   | 164257  | 3.41%  | 0.287% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 17.495 | 2416 | 2418 | 2423 | rVB  | 128356  | 170440  | 3.54%  | 0.298% |
| 73  | 17.554 | 2425 | 2428 | 2432 | rBV4 | 118517  | 155778  | 3.24%  | 0.272% |
| 74  | 17.601 | 2433 | 2436 | 2439 | rVB  | 99534   | 110298  | 2.29%  | 0.193% |
| 75  | 17.671 | 2444 | 2448 | 2453 | rBV4 | 160616  | 277651  | 5.77%  | 0.486% |
| 76  | 17.883 | 2479 | 2484 | 2489 | rBV  | 1175271 | 1558686 | 32.38% | 2.726% |
| 77  | 17.936 | 2489 | 2493 | 2499 | rVV  | 370214  | 508637  | 10.57% | 0.890% |
| 78  | 18.206 | 2533 | 2539 | 2542 | rBV  | 496467  | 876015  | 18.20% | 1.532% |
| 79  | 18.353 | 2561 | 2564 | 2568 | rBV3 | 95033   | 143271  | 2.98%  | 0.251% |
| 80  | 18.617 | 2604 | 2609 | 2613 | rBV  | 1075896 | 1343983 | 27.92% | 2.351% |
| 81  | 18.788 | 2635 | 2638 | 2646 | rVB4 | 195446  | 319930  | 6.65%  | 0.560% |
| 82  | 19.005 | 2672 | 2675 | 2679 | rBV2 | 178597  | 224015  | 4.65%  | 0.392% |
| 83  | 19.064 | 2680 | 2685 | 2690 | rVV5 | 169844  | 321468  | 6.68%  | 0.562% |
| 84  | 19.287 | 2718 | 2723 | 2728 | rBV  | 852757  | 1054657 | 21.91% | 1.845% |
| 85  | 19.411 | 2742 | 2744 | 2749 | rVB5 | 63759   | 73542   | 1.53%  | 0.129% |
| 86  | 19.892 | 2822 | 2826 | 2829 | rBV  | 1230590 | 1522969 | 31.64% | 2.664% |
| 87  | 19.928 | 2829 | 2832 | 2845 | rVB2 | 844355  | 1628791 | 33.84% | 2.849% |
| 88  | 20.174 | 2871 | 2874 | 2878 | rVB  | 145931  | 156052  | 3.24%  | 0.273% |
| 89  | 20.239 | 2882 | 2885 | 2890 | rVB4 | 64114   | 104414  | 2.17%  | 0.183% |
| 90  | 20.298 | 2890 | 2895 | 2898 | rBV3 | 395396  | 641133  | 13.32% | 1.121% |
| 91  | 20.333 | 2898 | 2901 | 2906 | rVB  | 423975  | 560770  | 11.65% | 0.981% |
| 92  | 20.451 | 2917 | 2921 | 2927 | rVB  | 464231  | 541893  | 11.26% | 0.948% |
| 93  | 20.597 | 2942 | 2946 | 2952 | rBV6 | 147279  | 295113  | 6.13%  | 0.516% |
| 94  | 20.727 | 2963 | 2968 | 2975 | rBV  | 2866101 | 3962882 | 82.33% | 6.932% |
| 95  | 20.973 | 3006 | 3010 | 3015 | rBV  | 284259  | 323530  | 6.72%  | 0.566% |
| 96  | 21.502 | 3096 | 3100 | 3105 | rVB  | 146031  | 194007  | 4.03%  | 0.339% |
| 97  | 22.066 | 3191 | 3196 | 3203 | rBV  | 175060  | 259284  | 5.39%  | 0.454% |
| 98  | 22.554 | 3272 | 3279 | 3289 | rBV2 | 472916  | 945011  | 19.63% | 1.653% |
| 99  | 22.683 | 3297 | 3301 | 3310 | rVB3 | 35081   | 62693   | 1.30%  | 0.110% |
| 100 | 26.308 | 3908 | 3918 | 3937 | rVB2 | 275041  | 943889  | 19.61% | 1.651% |

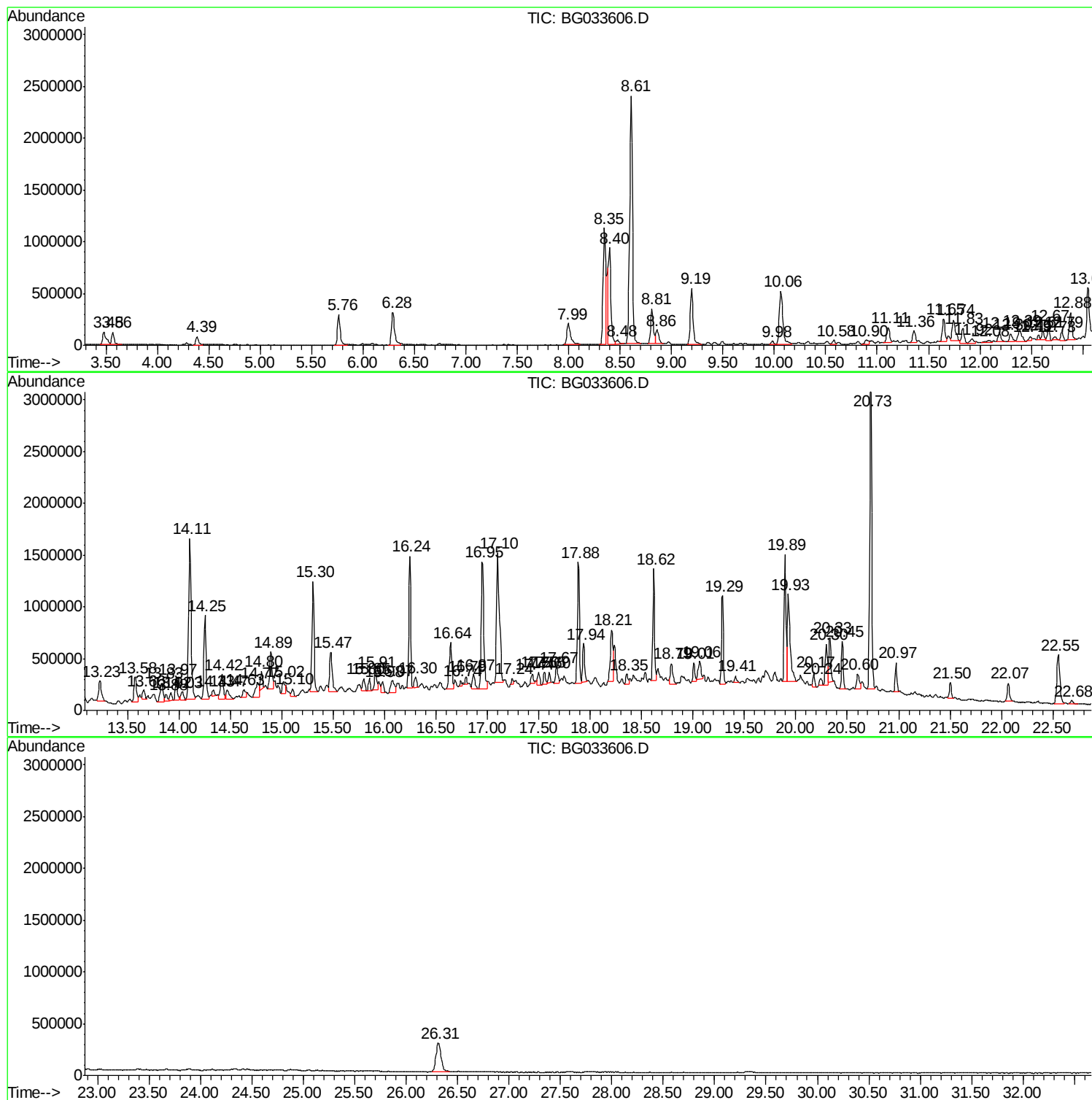
Sum of corrected areas: 57169372

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DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

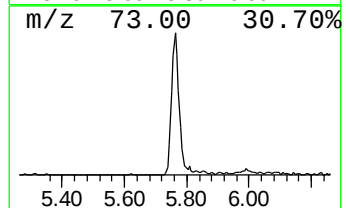
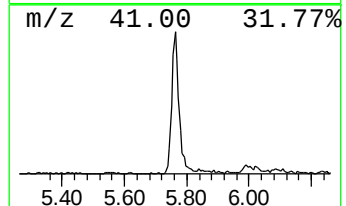
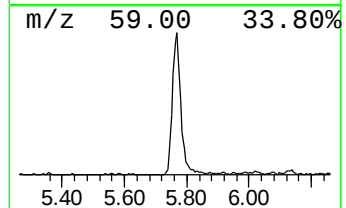
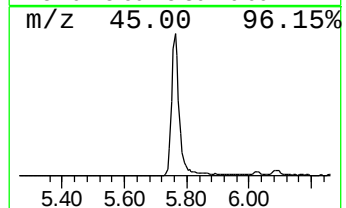
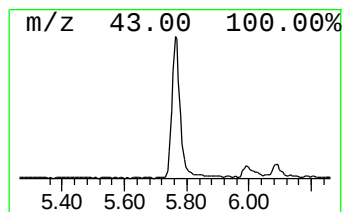
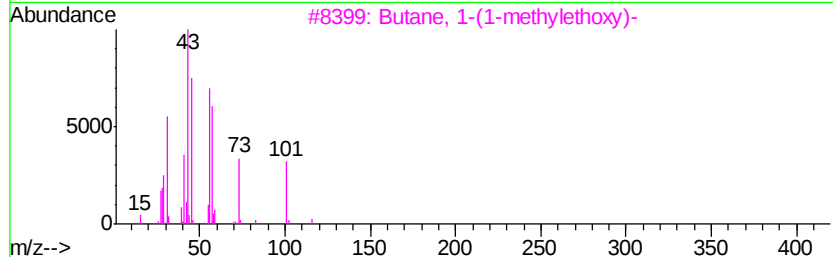
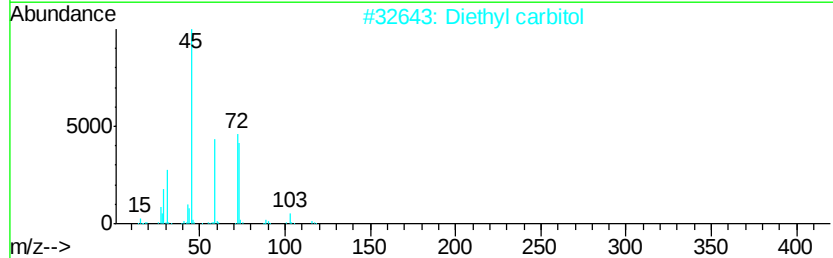
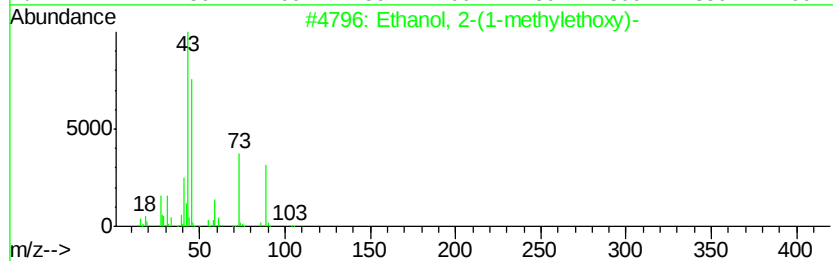
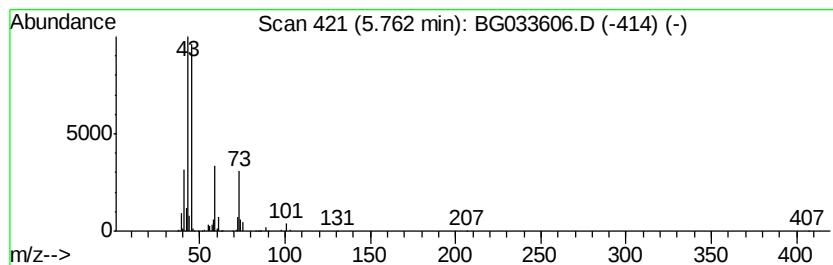
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Ethanol, 2-(1-methylethoxy)- Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.76 | 40.95 ng | 538388 | 1,4-Dichlorobenzene-d4 | 8.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Ethanol, 2-(1-methylethoxy)-        | 104 | C5H12O2  | 000109-59-1 | 72   |
| 2    |    | Diethyl carbitol                    | 162 | C8H18O3  | 000112-36-7 | 53   |
| 3    |    | Butane, 1-(1-methylethoxy)-         | 116 | C7H16O   | 001860-27-1 | 50   |
| 4    |    | 2-Propanol, 1-(1-methylethoxy)-     | 118 | C6H14O2  | 003944-36-3 | 50   |
| 5    |    | Sulfurous acid, bis(1-methylethy... | 166 | C6H14O3S | 004773-13-1 | 42   |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

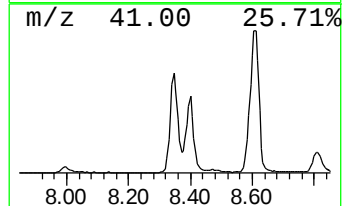
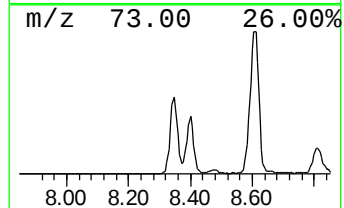
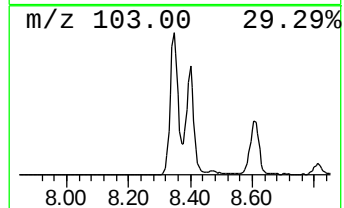
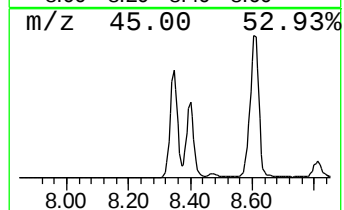
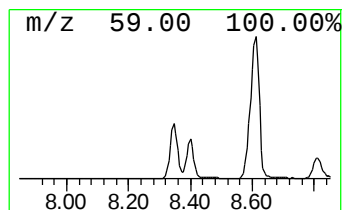
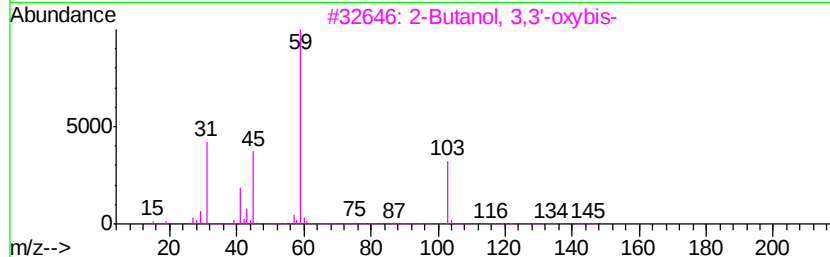
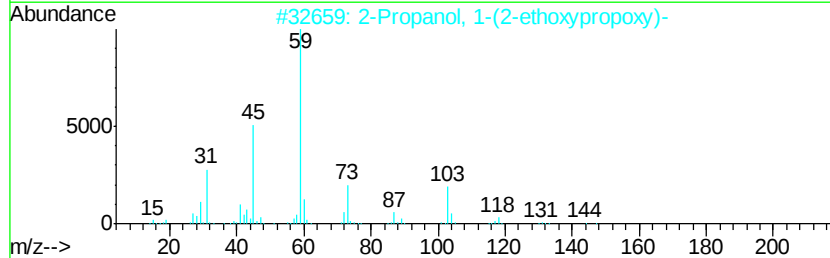
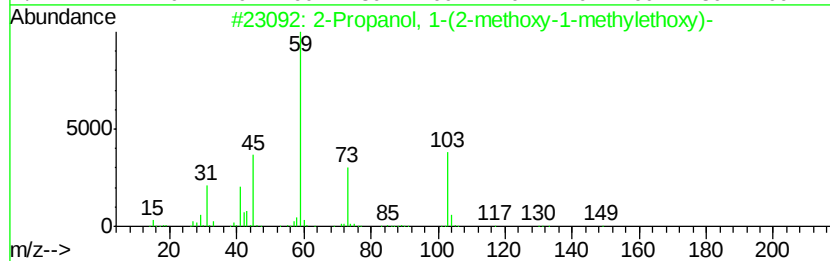
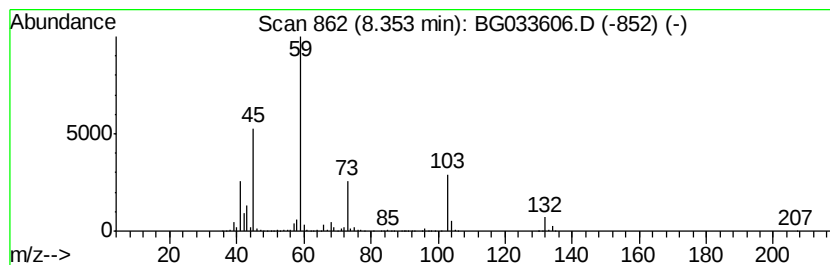
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 8.35 | 155.62 ng | 2046040 | 1,4-Dichlorobenzene-d4 | 8.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Propanol, 1-(2-methoxy-1-methy... | 148 | C7H16O3 | 020324-32-7 | 80   |
| 2    |    | 2-Propanol, 1-(2-ethoxypropoxy)-    | 162 | C8H18O3 | 010143-32-5 | 64   |
| 3    |    | 2-Butanol, 3,3'-oxybis-             | 162 | C8H18O3 | 054305-61-2 | 53   |
| 4    |    | 1-Propanol, 2-(2-hydroxypropoxy)-   | 134 | C6H14O3 | 000106-62-7 | 53   |
| 5    |    | 1-Propanol, 2,2'-oxybis-            | 134 | C6H14O3 | 000108-61-2 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

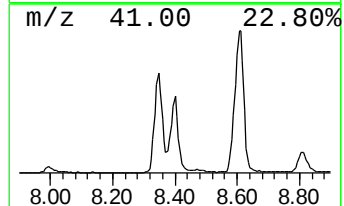
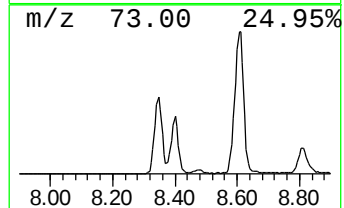
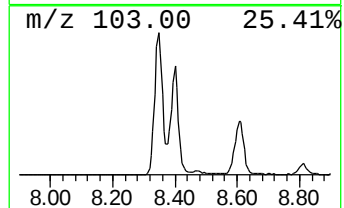
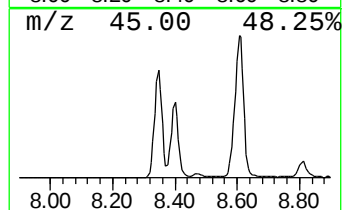
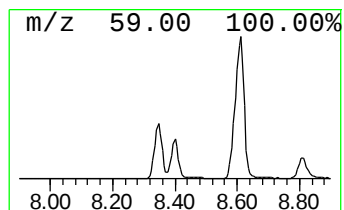
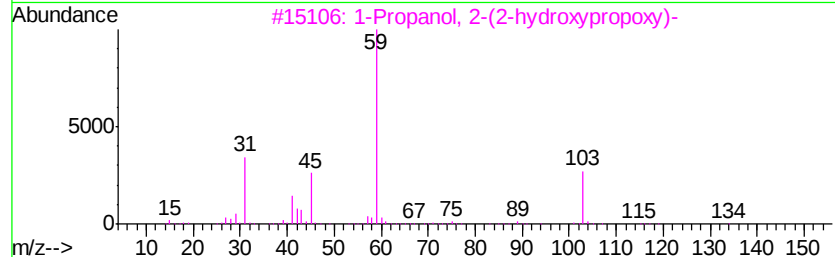
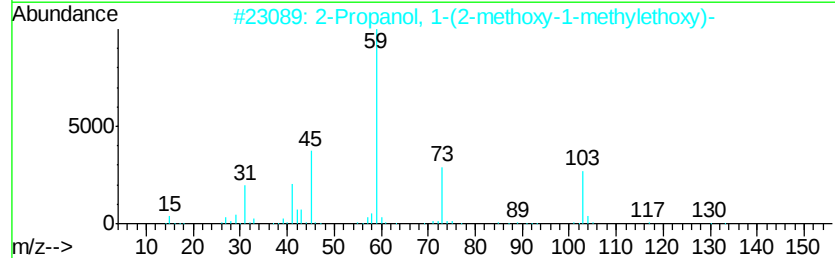
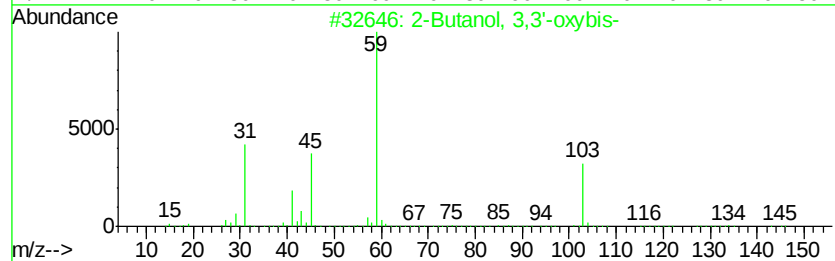
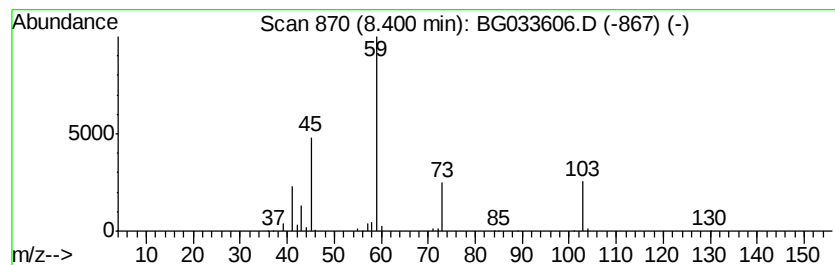
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ClientSampleId :  
DRUM-WATER

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 2-Butanol, 3,3'-oxybis- Concentration Rank 3

| R.T.    | EstConc     | Area                    | Relative to ISTD       | R.T.    |             |      |
|---------|-------------|-------------------------|------------------------|---------|-------------|------|
| 8.40    | 118.62 ng   | 1559530                 | 1,4-Dichlorobenzene-d4 | 8.86    |             |      |
| Hit# of | 5           | Tentative ID            | MW                     | MolForm | CAS#        | Qual |
| 1       | 2-Butanol,  | 3,3'-oxybis-            | 162                    | C8H18O3 | 054305-61-2 | 59   |
| 2       | 2-Propanol, | 1-(2-methoxy-1-methy... | 148                    | C7H16O3 | 020324-32-7 | 56   |
| 3       | 1-Propanol, | 2-(2-hydroxypropoxy)-   | 134                    | C6H14O3 | 000106-62-7 | 53   |
| 4       | 1-Propanol, | 2,2'-oxybis-            | 134                    | C6H14O3 | 000108-61-2 | 38   |
| 5       | 1-Propanol, | 2-(2-methoxy-1-methy... | 148                    | C7H16O3 | 055956-21-3 | 38   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

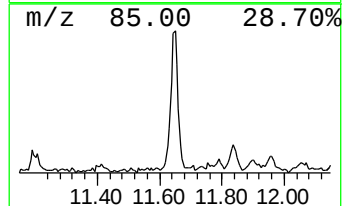
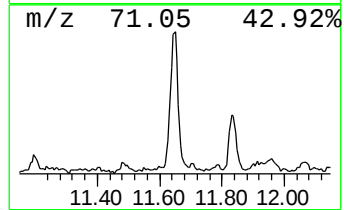
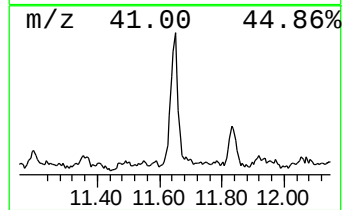
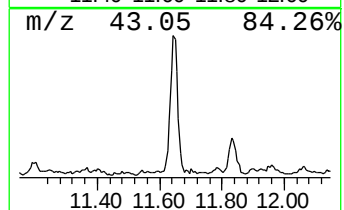
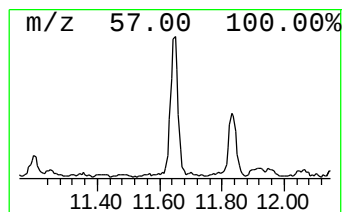
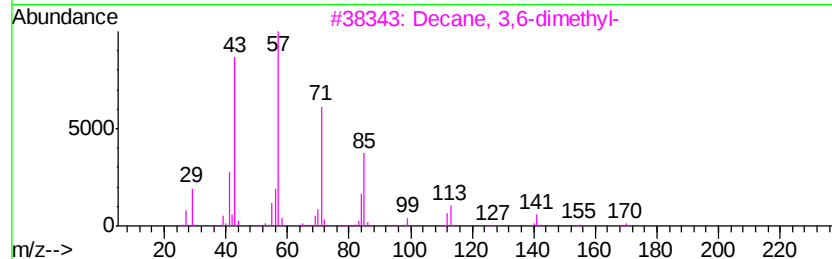
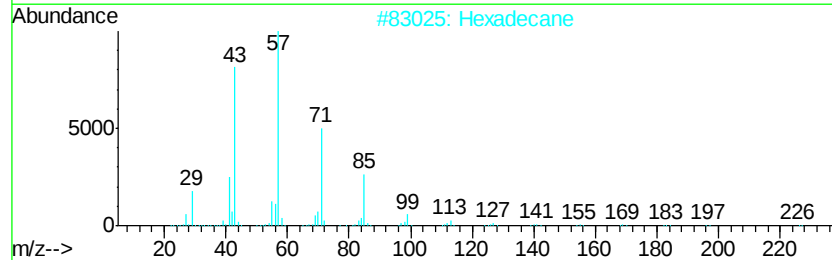
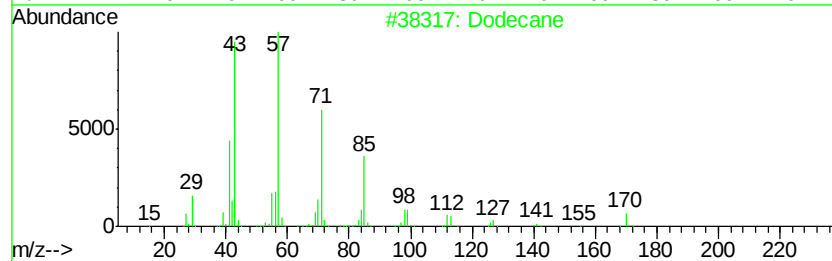
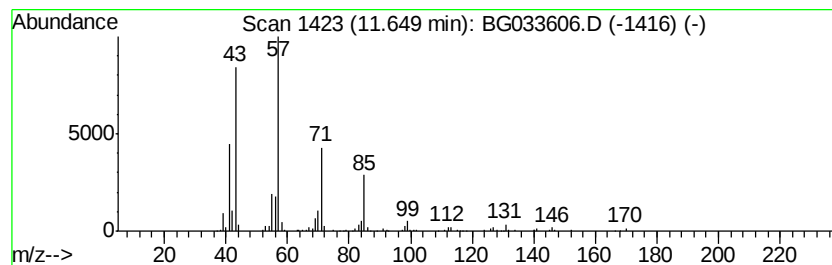
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ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Dodecane Concentration Rank 20

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 11.65   | 17.39 ng              | 400586       | Napthalene-d8    | 11.74     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Dodecane              | 170 C12H26   | 000112-40-3      | 91        |
| 2       | Hexadecane            | 226 C16H34   | 000544-76-3      | 90        |
| 3       | Decane, 3,6-dimethyl- | 170 C12H26   | 017312-53-7      | 87        |
| 4       | Hexatriacontane       | 507 C36H74   | 000630-06-8      | 83        |
| 5       | Tridecane             | 184 C13H28   | 000629-50-5      | 72        |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

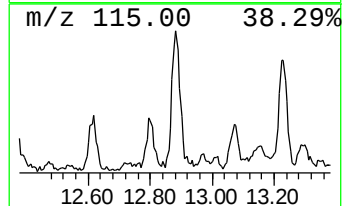
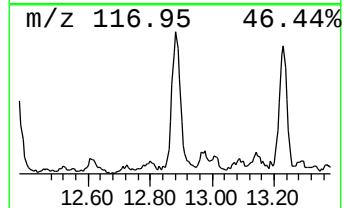
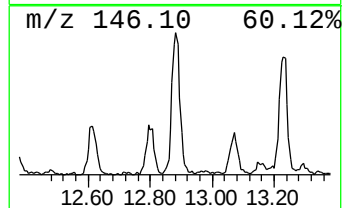
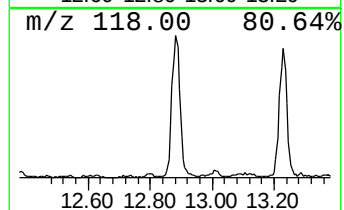
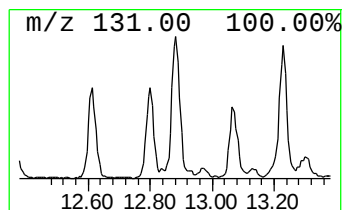
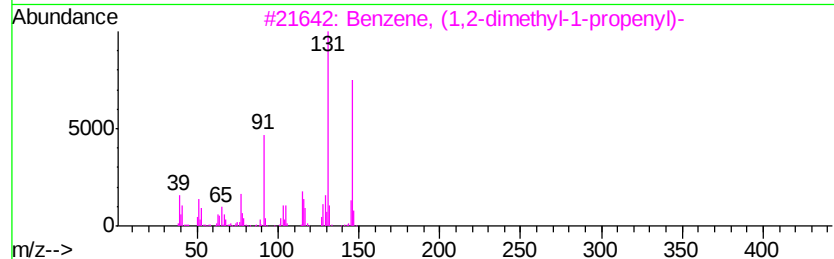
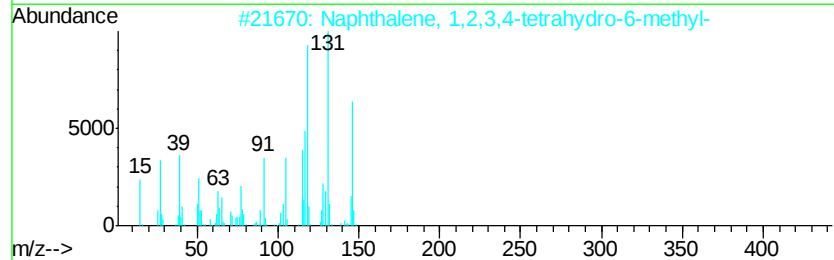
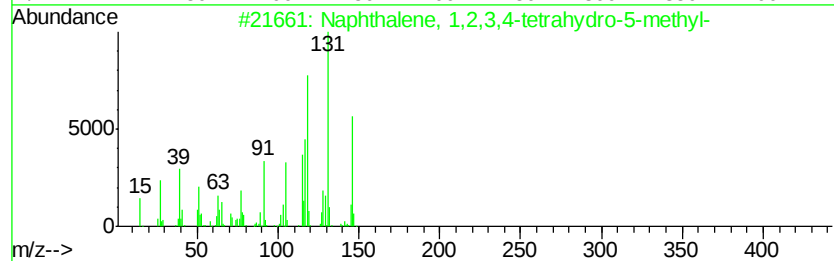
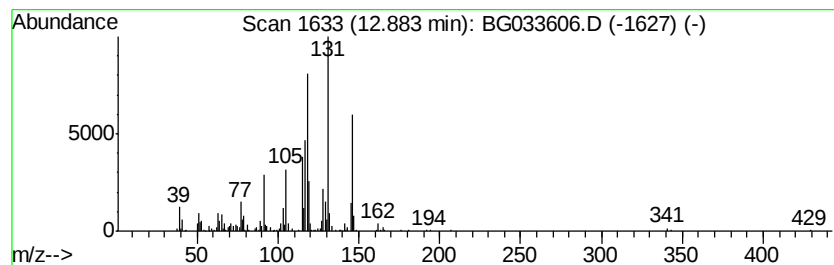
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 18

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.88 | 21.36 ng | 492083 | Naphthalene-d8   | 11.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 97   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 95   |
| 3    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 83   |
| 4    |    | Benzene, 1-ethenyl-4-methyl-        | 118 | C9H10   | 000622-97-9 | 70   |
| 5    |    | Benzene, (1-ethyl-2-propenyl)-      | 146 | C11H14  | 019947-22-9 | 68   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

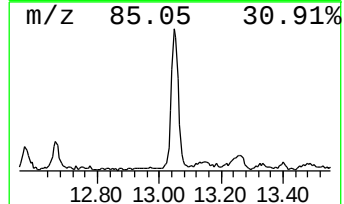
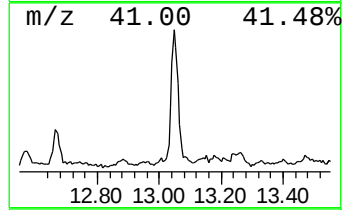
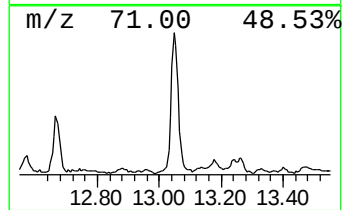
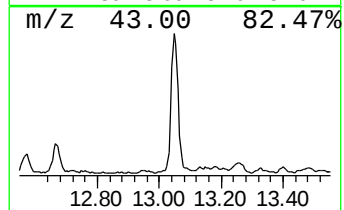
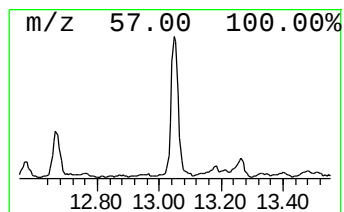
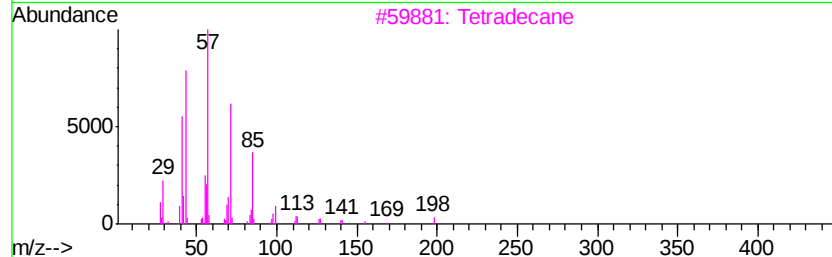
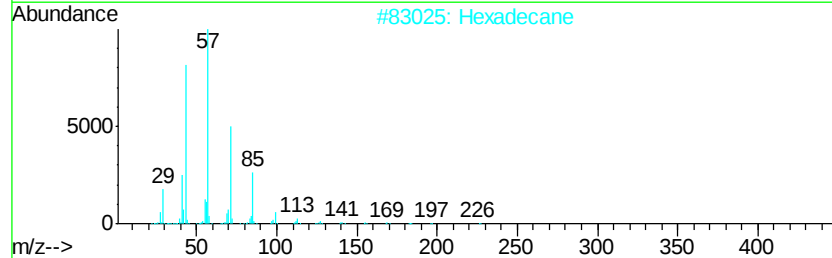
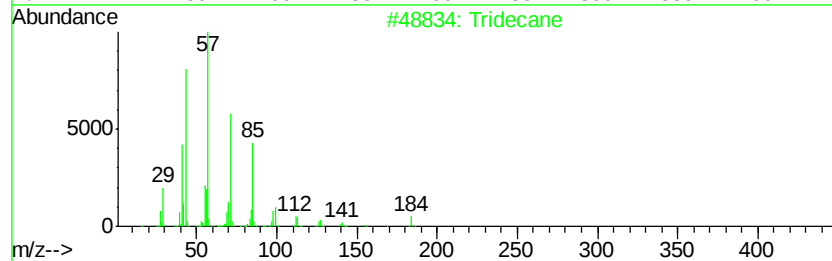
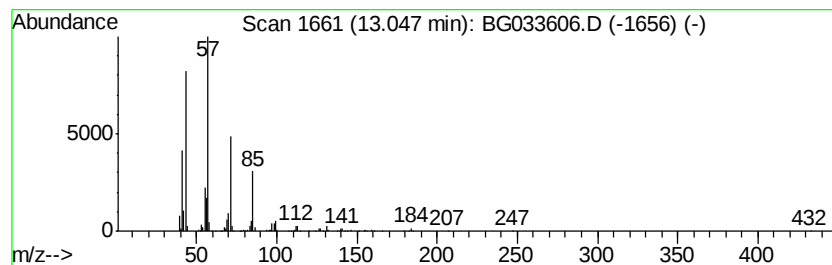
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Tridecane Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.05 | 36.63 ng | 843778 | Naphthalene-d8   | 11.74 |

| Hit# of | 5                       | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane               |              | 184 | C13H28  | 000629-50-5 | 95   |
| 2       | Hexadecane              |              | 226 | C16H34  | 000544-76-3 | 90   |
| 3       | Tetradecane             |              | 198 | C14H30  | 000629-59-4 | 72   |
| 4       | Dodecane                |              | 170 | C12H26  | 000112-40-3 | 72   |
| 5       | Undecane, 4,8-dimethyl- |              | 184 | C13H28  | 017301-33-6 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

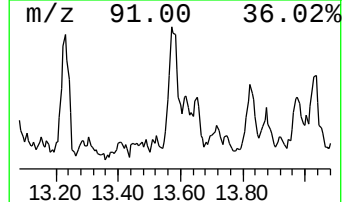
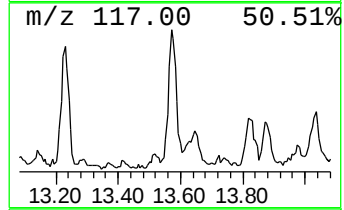
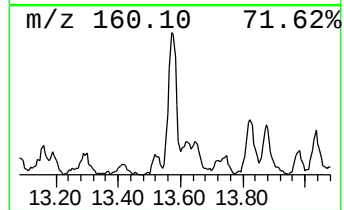
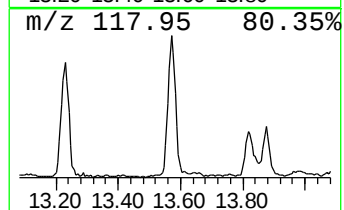
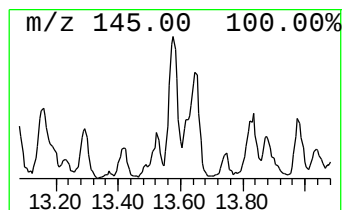
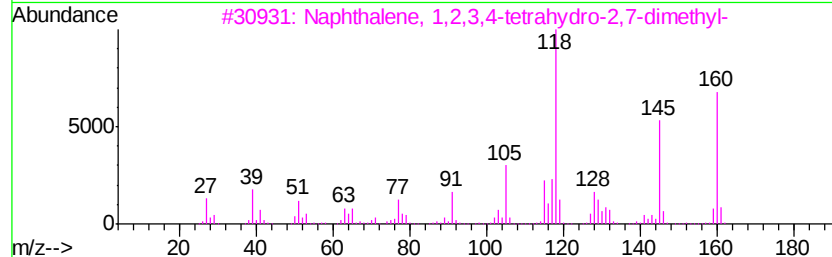
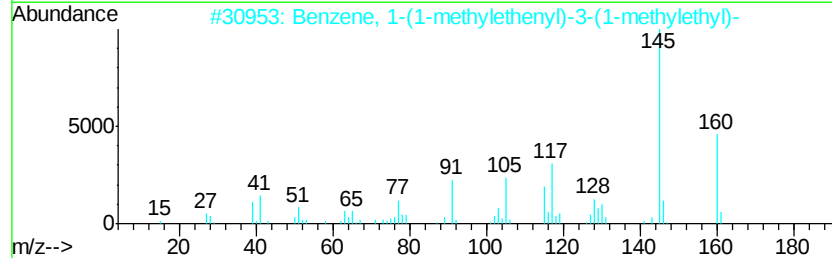
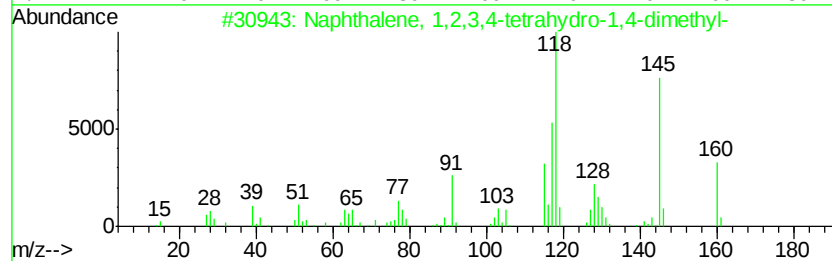
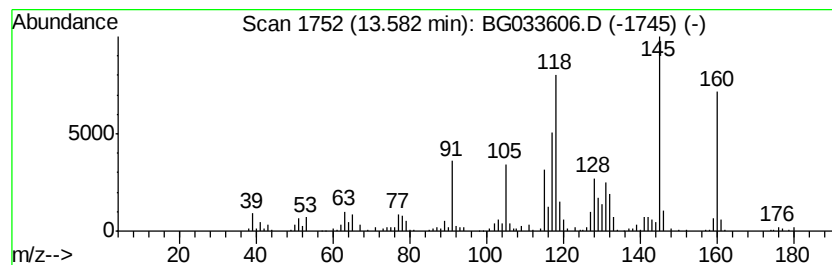
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.58 | 18.27 ng | 420785 | Naphthalene-d8   | 11.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 95   |
| 2    |    | Benzene, 1-(1-methylethenyl)-3-(... | 160 | C12H16  | 001129-29-9 | 64   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 64   |
| 4    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 60   |
| 5    |    | Benzene, 1,3,5-trimethyl-2-(1-me... | 160 | C12H16  | 014679-13-1 | 55   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

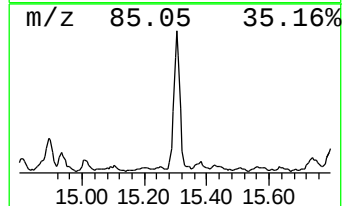
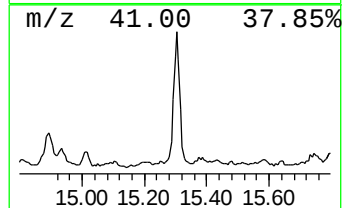
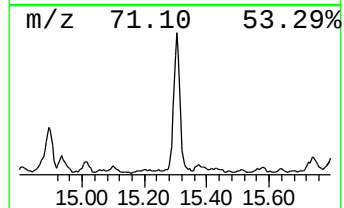
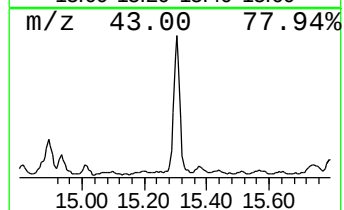
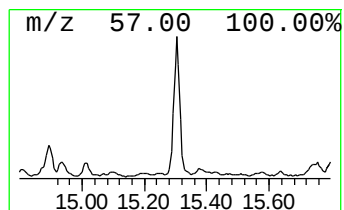
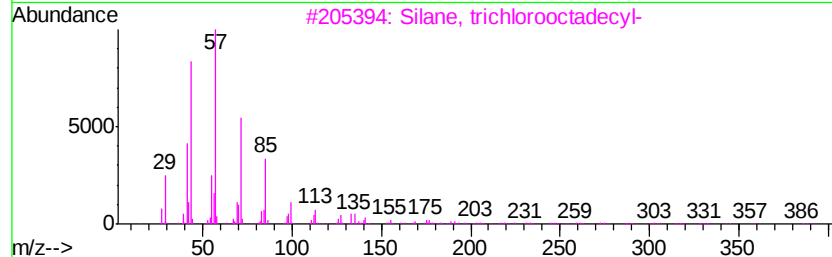
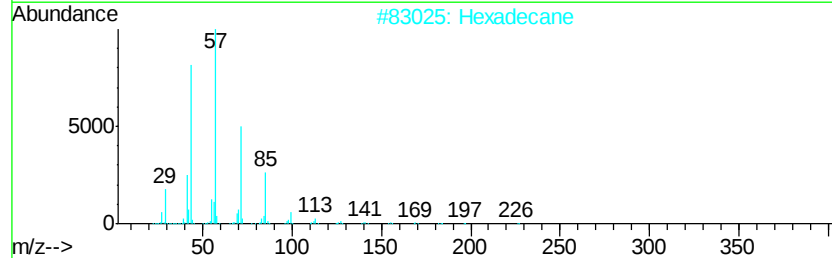
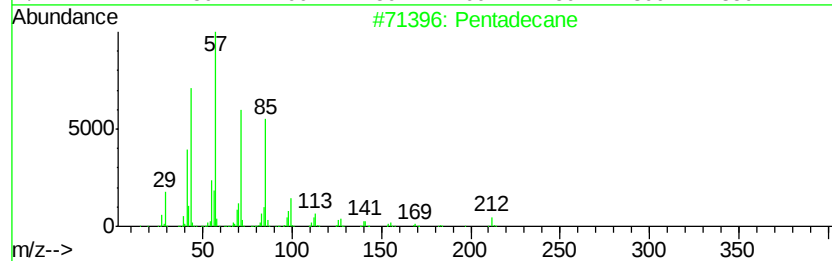
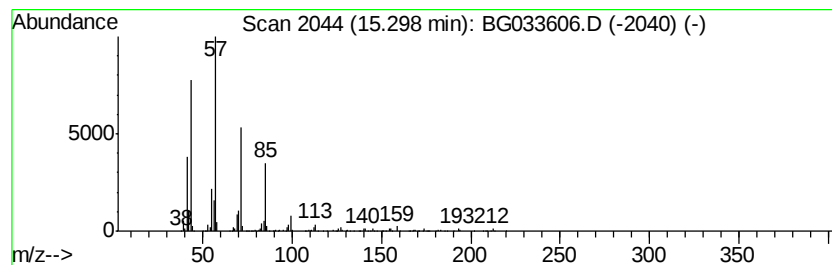
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Pentadecane Concentration Rank 8

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.30 | 40.74 ng | 1452710 | Acenaphthene-d10 | 15.47 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Pentadecane                 | 212 | C15H32      | 000629-62-9 | 94   |
| 2    |    | Hexadecane                  | 226 | C16H34      | 000544-76-3 | 91   |
| 3    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 90   |
| 4    |    | Tetradecane                 | 198 | C14H30      | 000629-59-4 | 86   |
| 5    |    | Undecane                    | 156 | C11H24      | 001120-21-4 | 86   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

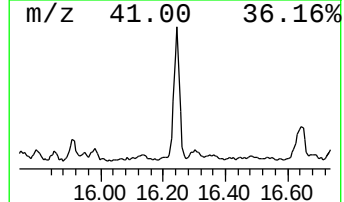
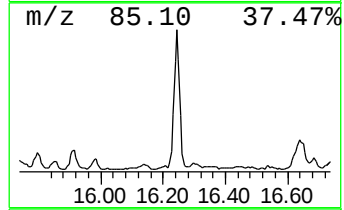
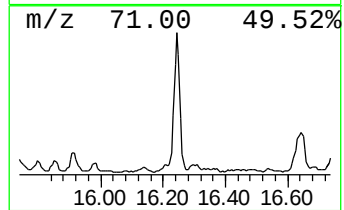
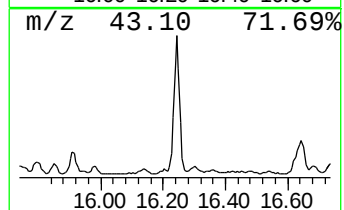
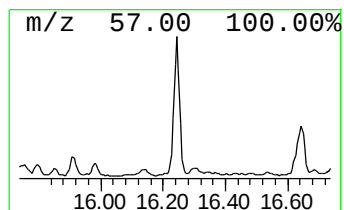
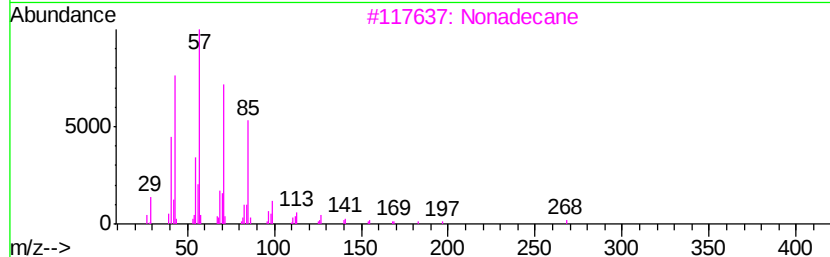
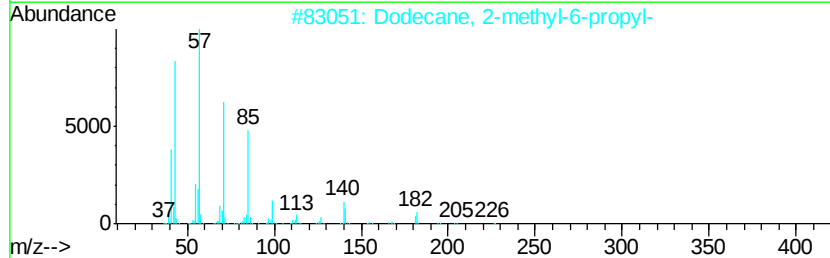
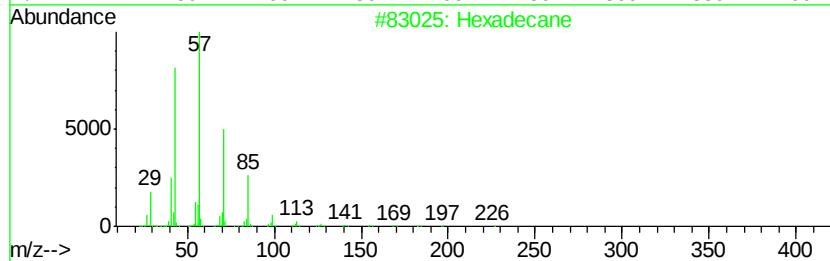
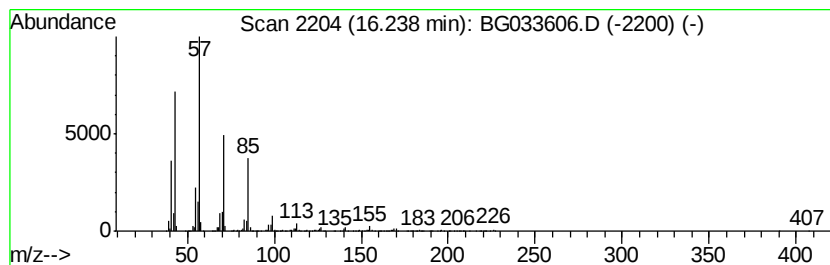
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Hexadecane Concentration Rank 6

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 16.24 | 45.19 ng | 1611670 | Acenaphthene-d10 | 15.47 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 96   |
| 2    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 86   |
| 3    |    | Nonadecane                   | 268 | C19H40  | 000629-92-5 | 86   |
| 4    |    | Tridecane                    | 184 | C13H28  | 000629-50-5 | 86   |
| 5    |    | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 86   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

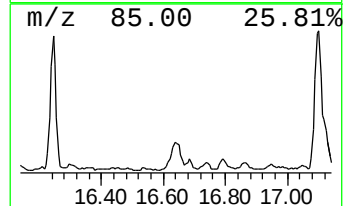
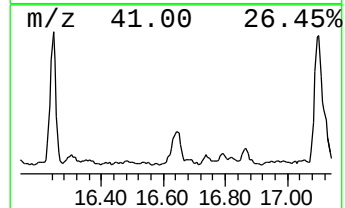
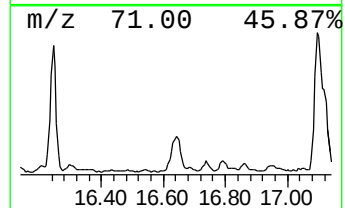
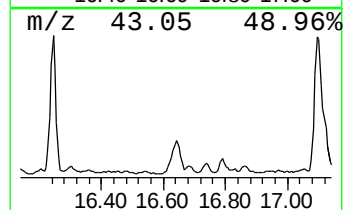
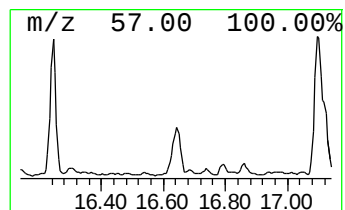
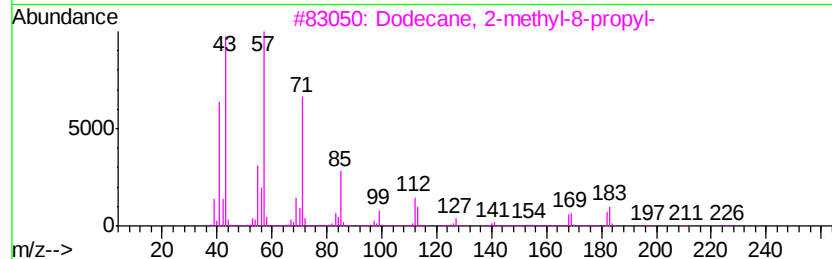
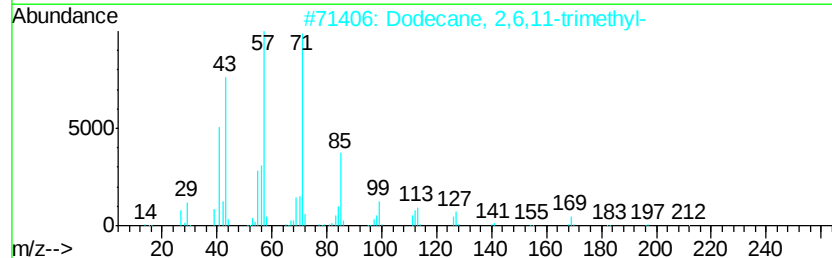
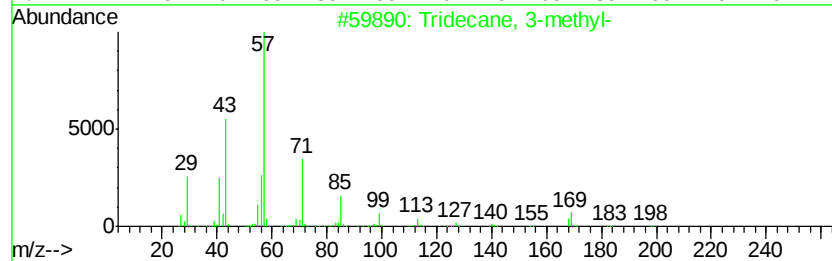
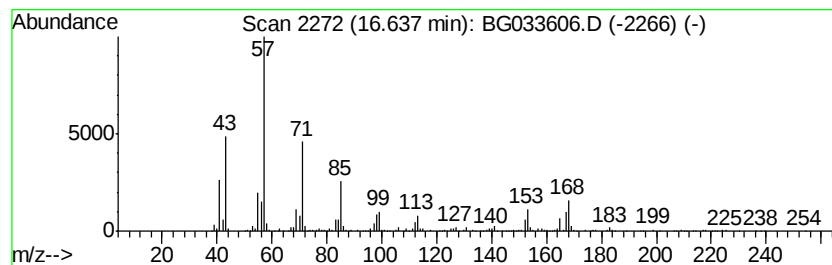
Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 Tridecane, 3-methyl- Concentration Rank 15

| R.T.    | EstConc  | Area                           | Relative to ISTD | R.T.           |
|---------|----------|--------------------------------|------------------|----------------|
| 16.64   | 24.39 ng | 869926                         | Acenaphthene-d10 | 15.47          |
| Hit# of | 5        | Tentative ID                   | MW MolForm       | CAS# Qual      |
| 1       |          | Tridecane, 3-methyl-           | 198 C14H30       | 006418-41-3 62 |
| 2       |          | Dodecane, 2,6,11-trimethyl-    | 212 C15H32       | 031295-56-4 60 |
| 3       |          | Dodecane, 2-methyl-8-propyl-   | 226 C16H34       | 055045-07-3 53 |
| 4       |          | Eicosane                       | 282 C20H42       | 000112-95-8 49 |
| 5       |          | Pentadecane, 2,6,10-trimethyl- | 254 C18H38       | 003892-00-0 49 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

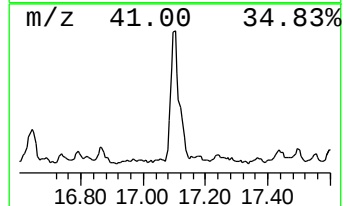
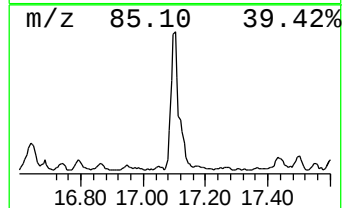
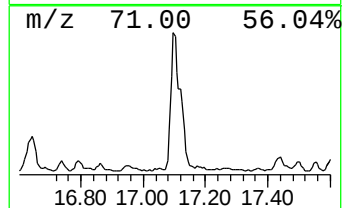
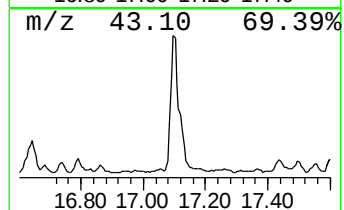
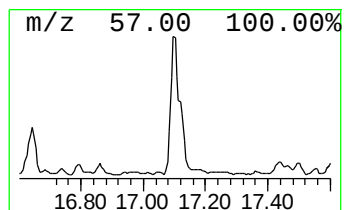
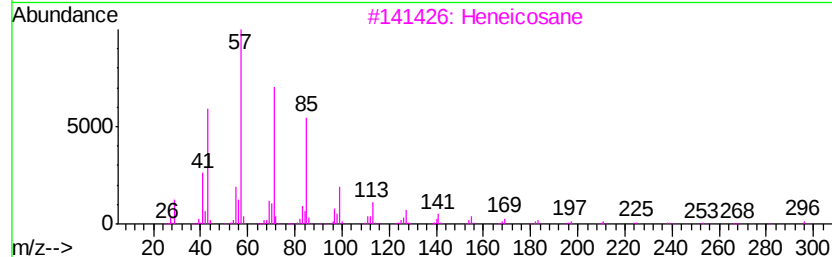
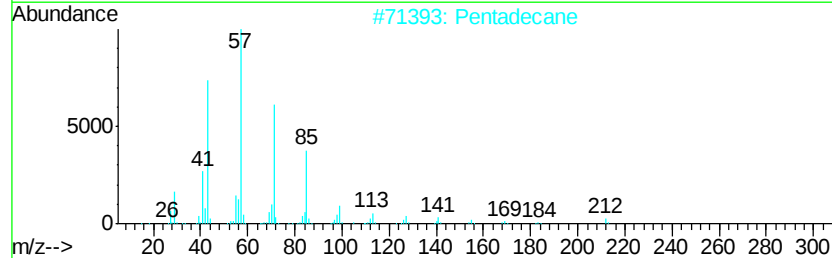
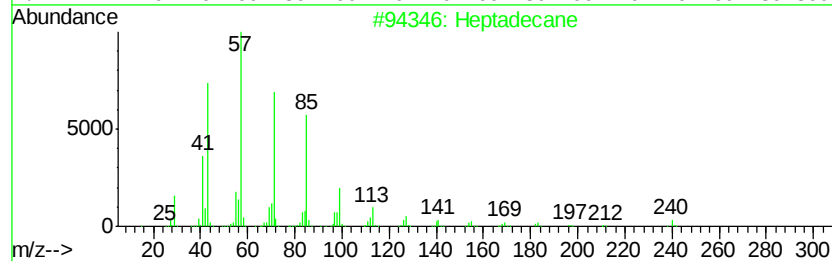
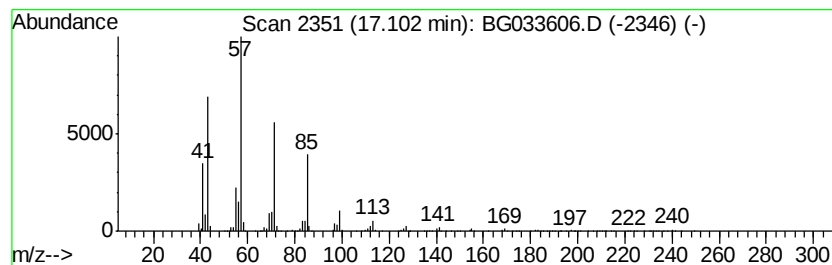
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Heptadecane Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 17.10 | 54.37 ng | 2381290 | Phenanthrene-d10 | 18.21 |

| Hit# of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|-----------|--------------|-----|---------|-------------|------|
| 1         | Heptadecane  | 240 | C17H36  | 000629-78-7 | 97   |
| 2         | Pentadecane  | 212 | C15H32  | 000629-62-9 | 90   |
| 3         | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 4         | Hexadecane   | 226 | C16H34  | 000544-76-3 | 80   |
| 5         | Tridecane    | 184 | C13H28  | 000629-50-5 | 78   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

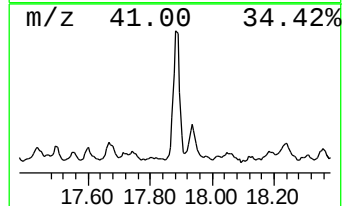
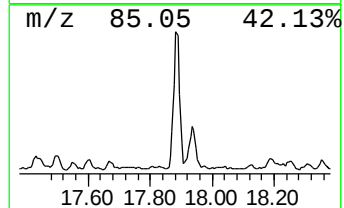
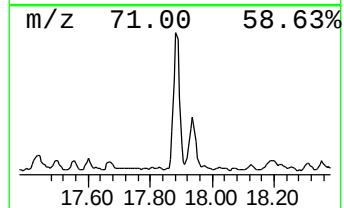
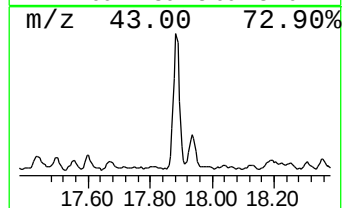
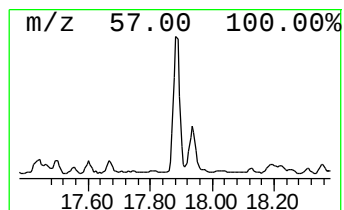
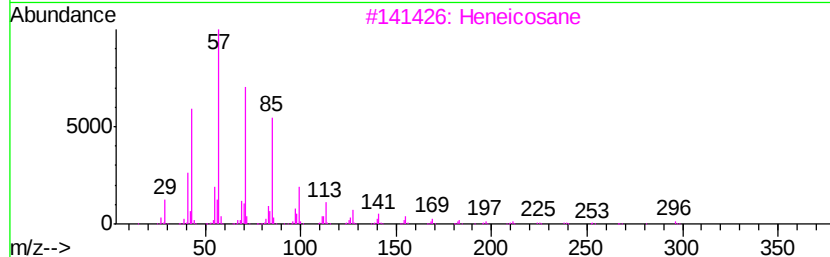
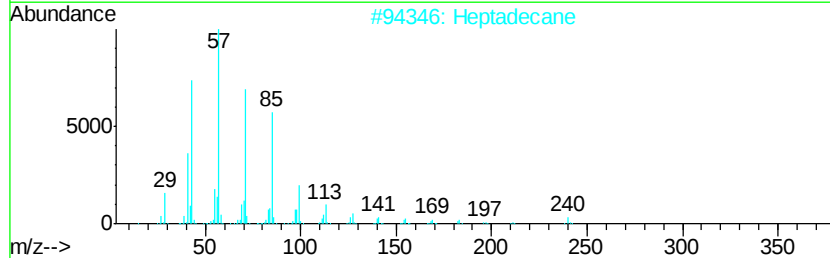
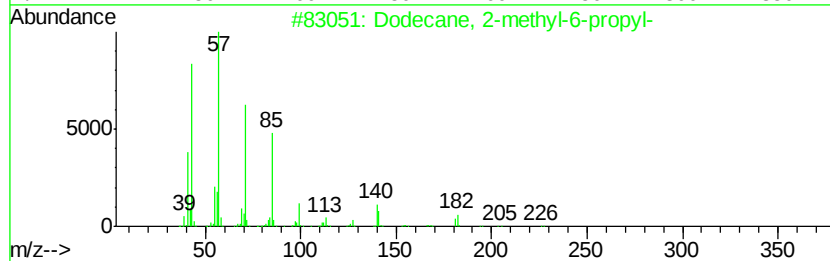
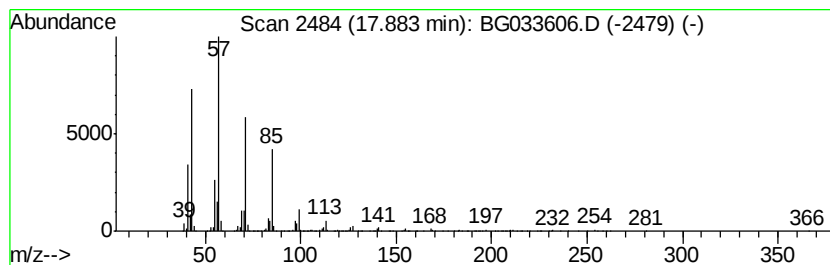
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Dodecane, 2-methyl-6-propyl- Concentration Rank 11

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 17.88 | 35.59 ng | 1558690 | Phenanthrene-d10 | 18.21 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 91   |
| 2    |    | Heptadecane                  | 240 | C17H36  | 000629-78-7 | 90   |
| 3    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    | Tetracosane                  | 338 | C24H50  | 000646-31-1 | 90   |
| 5    |    | Nonadecane                   | 268 | C19H40  | 000629-92-5 | 87   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

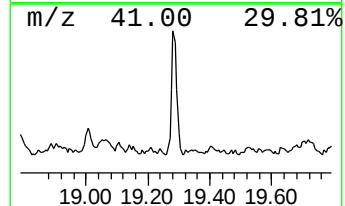
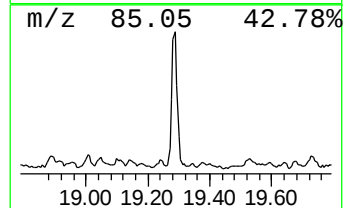
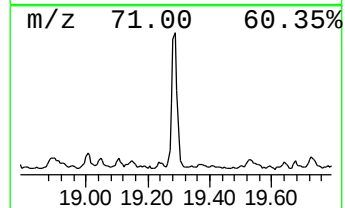
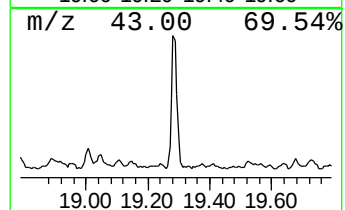
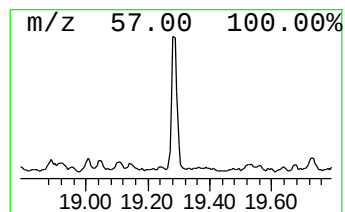
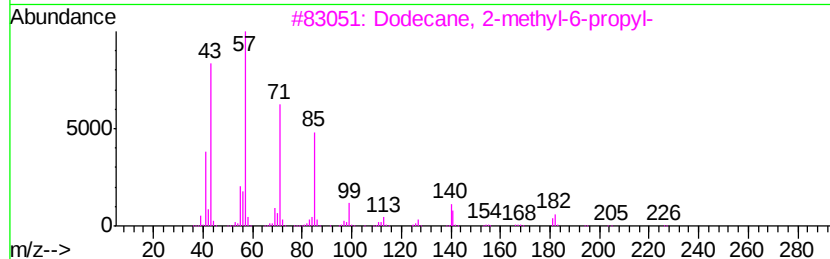
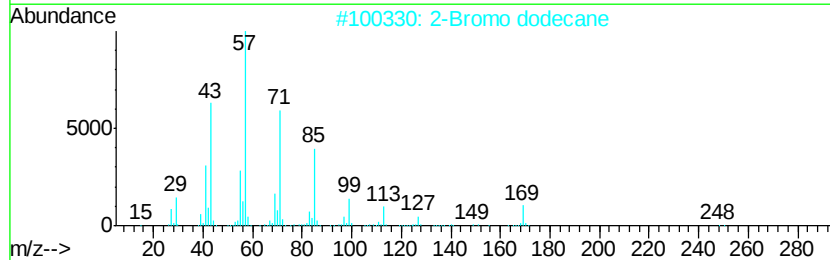
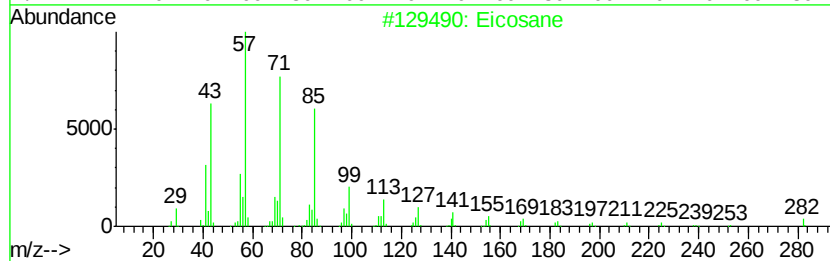
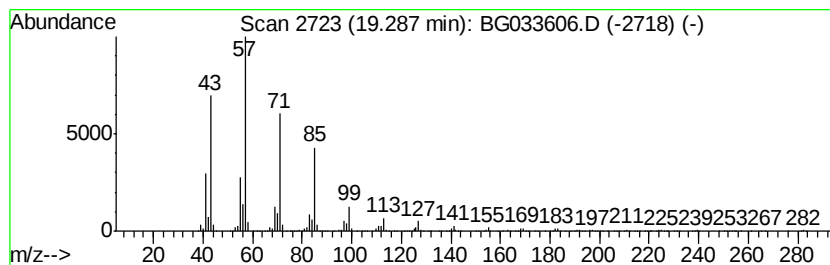
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Eicosane Concentration Rank 16

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 19.29 | 24.08 ng | 1054660 | Phenanthrene-d10 | 18.21 |

| Hit# | of | Tentative ID                 | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------|-----|----------|-------------|------|
| 1    | 5  | Eicosane                     | 282 | C20H42   | 000112-95-8 | 97   |
| 2    |    | 2-Bromo dodecane             | 248 | C12H25Br | 013187-99-0 | 94   |
| 3    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34   | 055045-08-4 | 93   |
| 4    |    | Heptacosane                  | 380 | C27H56   | 000593-49-7 | 91   |
| 5    |    | Tridecane, 1-iodo-           | 310 | C13H27I  | 035599-77-0 | 91   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
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Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

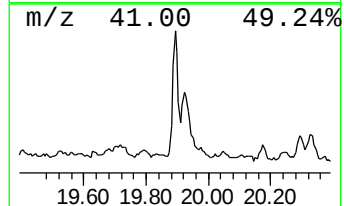
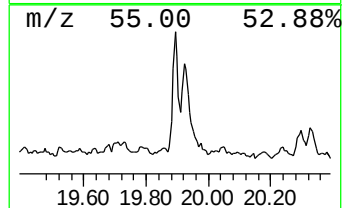
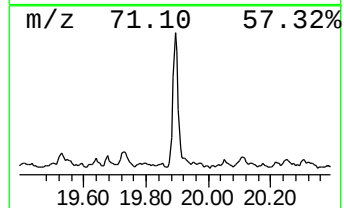
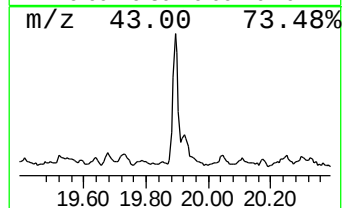
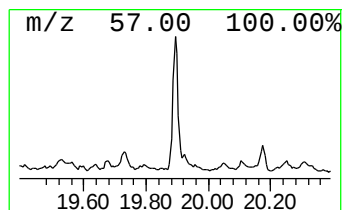
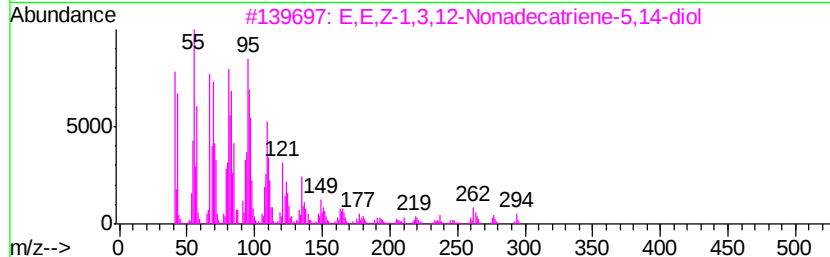
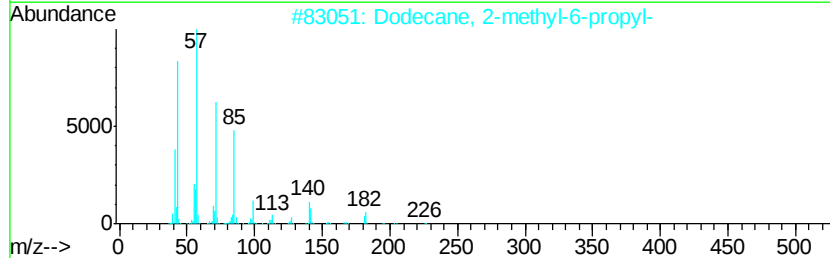
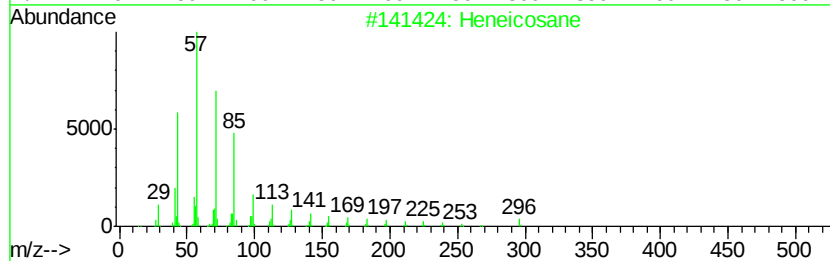
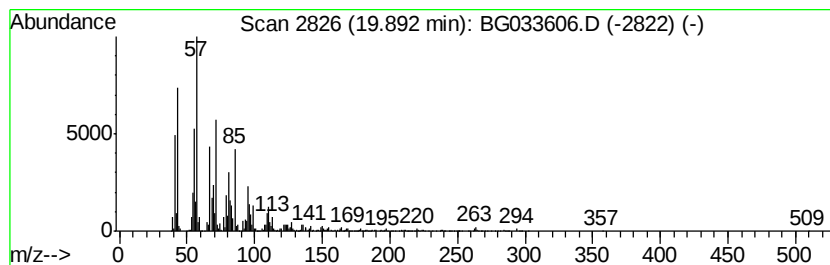
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ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 Heneicosane Concentration Rank 13

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 19.89     | 34.77 ng                            | 1522970 | Phenanthrene-d10 | 18.21        |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | Heneicosane                         | 296     | C21H44           | 000629-94-7  | 81   |
| 2         | Dodecane, 2-methyl-6-propyl-        | 226     | C16H34           | 055045-08-4  | 64   |
| 3         | E,E,Z-1,3,12-Nonadecatriene-5,14... | 294     | C19H34O2         | 1000131-11-4 | 53   |
| 4         | Tetradecane, 4-ethyl-               | 226     | C16H34           | 055045-14-2  | 50   |
| 5         | 2-methyloctacosane                  | 408     | C29H60           | 1000376-72-8 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG040518\  
Data File : BG033606.D  
Acq On : 5 Apr 2018 23:34  
Operator : SJ/JU  
Sample : J2197-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

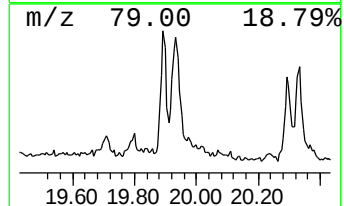
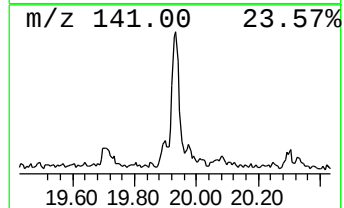
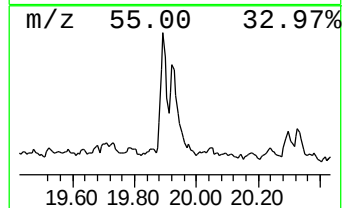
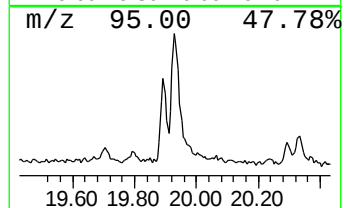
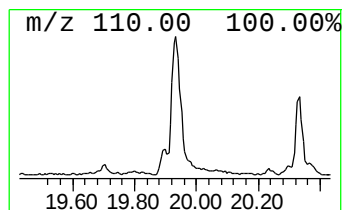
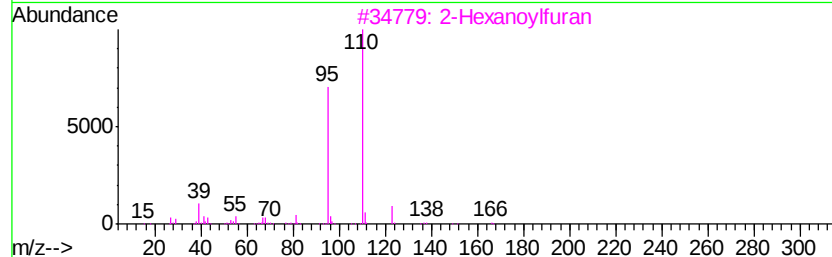
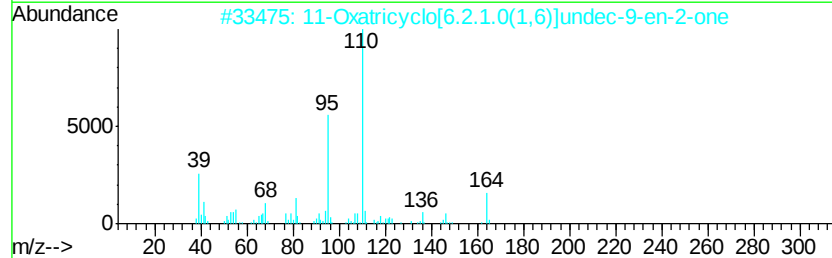
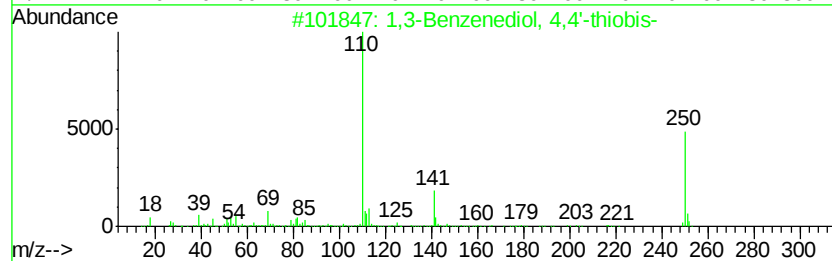
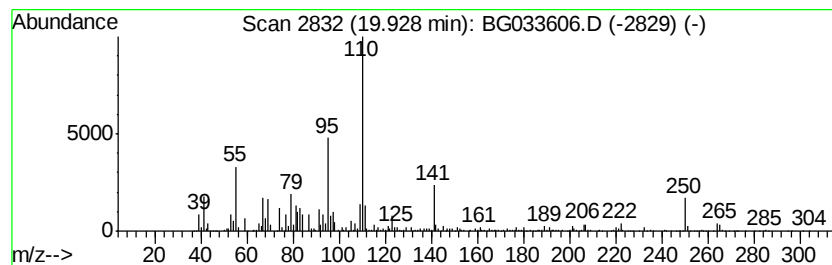
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 1,3-Benzenediol, 4,4'-thiobis- Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 19.93 | 37.19 ng | 1628790 | Phenanthrene-d10 | 18.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 1,3-Benzenediol, 4,4'-thiobis-      | 250 | C12H10O4S | 000097-29-0 | 50   |
| 2    |    | 11-Oxatricyclo[6.2.1.0(1,6)]unde... | 164 | C10H12O2  | 106247-65-8 | 50   |
| 3    |    | 2-Hexanovlfuran                     | 166 | C10H14O2  | 014360-50-0 | 50   |
| 4    |    | 1H-Pvrazole, 1,3,5-trimethyl-       | 110 | C6H10N2   | 001072-91-9 | 50   |
| 5    |    | Ethanone, 2-cyclopentyl-1-(1H-im... | 178 | C10H14N2O | 069393-25-5 | 50   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG040518\  
 Data File : BG033606.D  
 Acq On : 5 Apr 2018 23:34  
 Operator : SJ/JU  
 Sample : J2197-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRUM-WATER

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Ethanol, 2-(1-met... | 5.76  | 41.0    | ng    | 538388   | 1                     | 8.86  | 262954 | 20.0 |
| 2-Propanol, 1-(2-... | 8.35  | 155.6   | ng    | 2046040  | 1                     | 8.86  | 262954 | 20.0 |
| 2-Butanol, 3,3'-o... | 8.40  | 118.6   | ng    | 1559530  | 1                     | 8.86  | 262954 | 20.0 |
| Dodecane             | 11.65 | 17.4    | ng    | 400586   | 2                     | 11.74 | 460672 | 20.0 |
| Naphthalene, 1,2,... | 12.88 | 21.4    | ng    | 492083   | 2                     | 11.74 | 460672 | 20.0 |
| Tridecane            | 13.05 | 36.6    | ng    | 843778   | 2                     | 11.74 | 460672 | 20.0 |
| Naphthalene, 1,2,... | 13.58 | 18.3    | ng    | 420785   | 2                     | 11.74 | 460672 | 20.0 |
| Pentadecane          | 15.30 | 40.7    | ng    | 1452710  | 3                     | 15.47 | 713240 | 20.0 |
| Hexadecane           | 16.24 | 45.2    | ng    | 1611670  | 3                     | 15.47 | 713240 | 20.0 |
| Tridecane, 3-methyl- | 16.64 | 24.4    | ng    | 869926   | 3                     | 15.47 | 713240 | 20.0 |
| Heptadecane          | 17.10 | 54.4    | ng    | 2381290  | 4                     | 18.21 | 876015 | 20.0 |
| Dodecane, 2-methy... | 17.88 | 35.6    | ng    | 1558690  | 4                     | 18.21 | 876015 | 20.0 |
| Eicosane             | 19.29 | 24.1    | ng    | 1054660  | 4                     | 18.21 | 876015 | 20.0 |
| Heneicosane          | 19.89 | 34.8    | ng    | 1522970  | 4                     | 18.21 | 876015 | 20.0 |
| 1,3-Benzenediol, ... | 19.93 | 37.2    | ng    | 1628790  | 4                     | 18.21 | 876015 | 20.0 |