

Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
 Data File : BG021623.D  
 Acq On : 13 Apr 2016 16:16  
 Operator : UM/SJ  
 Sample : H2480-01  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FRAC-TANK

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-BG041316.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         | 5.300       | 414           | 419         | 423          | rBV      | 7714           | 11590         | 1.58%           | 0.173%        |
| 2         | 5.764       | 491           | 498         | 504          | rBV      | 25507          | 42277         | 5.76%           | 0.630%        |
| 3         | 7.356       | 763           | 769         | 778          | rVB2     | 23160          | 43201         | 5.89%           | 0.644%        |
| 4         | 7.744       | 829           | 835         | 842          | rVB      | 34237          | 60224         | 8.21%           | 0.898%        |
| 5         | 8.220       | 910           | 916         | 923          | rBV      | 110009         | 187981        | 25.62%          | 2.802%        |
| 6         | 8.543       | 965           | 971         | 984          | rVB      | 80201          | 136636        | 18.62%          | 2.037%        |
| 7         | 9.383       | 1107          | 1114        | 1121         | rBV      | 78092          | 139537        | 19.02%          | 2.080%        |
| 8         | 9.471       | 1121          | 1129        | 1137         | rVV2     | 15602          | 28159         | 3.84%           | 0.420%        |
| 9         | 10.223      | 1250          | 1257        | 1261         | rBV4     | 4175           | 9721          | 1.32%           | 0.145%        |
| 10        | 11.034      | 1388          | 1395        | 1403         | rBV      | 160332         | 290667        | 39.62%          | 4.332%        |
| 11        | 13.455      | 1800          | 1807        | 1814         | rBV      | 205847         | 314278        | 42.84%          | 4.684%        |
| 12        | 13.643      | 1833          | 1839        | 1845         | rBV3     | 7874           | 12592         | 1.72%           | 0.188%        |
| 13        | 14.271      | 1939          | 1946        | 1953         | rBV      | 81736          | 126931        | 17.30%          | 1.892%        |
| 14        | 14.336      | 1953          | 1957        | 1966         | rVV2     | 4910           | 9220          | 1.26%           | 0.137%        |
| 15        | 14.706      | 2015          | 2020        | 2025         | rBV      | 47342          | 61654         | 8.40%           | 0.919%        |
| 16        | 14.783      | 2028          | 2033        | 2034         | rBV5     | 5134           | 7619          | 1.04%           | 0.114%        |
| 17        | 14.824      | 2034          | 2040        | 2049         | rVB2     | 252225         | 416358        | 56.75%          | 6.206%        |
| 18        | 15.147      | 2088          | 2095        | 2101         | rVV4     | 8092           | 21882         | 2.98%           | 0.326%        |
| 19        | 15.206      | 2101          | 2105        | 2111         | rVV5     | 15947          | 29922         | 4.08%           | 0.446%        |
| 20        | 15.253      | 2111          | 2113        | 2117         | rVV3     | 7306           | 10928         | 1.49%           | 0.163%        |
| 21        | 15.317      | 2119          | 2124        | 2131         | rVV3     | 12268          | 24783         | 3.38%           | 0.369%        |
| 22        | 15.388      | 2131          | 2136        | 2141         | rVB3     | 8459           | 12847         | 1.75%           | 0.191%        |
| 23        | 15.605      | 2168          | 2173        | 2176         | rBV      | 13864          | 21702         | 2.96%           | 0.323%        |
| 24        | 15.652      | 2176          | 2181        | 2186         | rVB      | 77746          | 101524        | 13.84%          | 1.513%        |
| 25        | 15.711      | 2186          | 2191        | 2195         | rBV5     | 6530           | 10908         | 1.49%           | 0.163%        |
| 26        | 15.787      | 2200          | 2204        | 2210         | rVB7     | 7804           | 13916         | 1.90%           | 0.207%        |
| 27        | 16.052      | 2240          | 2249        | 2254         | rBV3     | 22385          | 54034         | 7.36%           | 0.805%        |
| 28        | 16.151      | 2262          | 2266        | 2271         | rVB5     | 9782           | 13645         | 1.86%           | 0.203%        |
| 29        | 16.198      | 2271          | 2274        | 2283         | rBV8     | 10486          | 21686         | 2.96%           | 0.323%        |
| 30        | 16.275      | 2283          | 2287        | 2288         | rBV3     | 12362          | 16177         | 2.20%           | 0.241%        |
| 31        | 16.298      | 2288          | 2291        | 2295         | rVB2     | 34984          | 48043         | 6.55%           | 0.716%        |
| 32        | 16.510      | 2322          | 2327        | 2335         | rBV      | 85766          | 151178        | 20.61%          | 2.253%        |
| 33        | 16.851      | 2381          | 2385        | 2388         | rBV4     | 10716          | 17066         | 2.33%           | 0.254%        |
| 34        | 16.909      | 2393          | 2395        | 2398         | rVV3     | 7637           | 9332          | 1.27%           | 0.139%        |

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 BNA\_G  
 ClientSampleId :  
 FRAC-TANK

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-BG041316.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 16.968 | 2402 | 2405 | 2409 | rVB5 | 6894   | 8919   | 1.22%   | 0.133%  |
| 36 | 17.015 | 2409 | 2413 | 2418 | rBV4 | 9129   | 13960  | 1.90%   | 0.208%  |
| 37 | 17.297 | 2456 | 2461 | 2465 | rBV  | 51332  | 66747  | 9.10%   | 0.995%  |
| 38 | 17.350 | 2465 | 2470 | 2474 | rVB2 | 15412  | 24463  | 3.33%   | 0.365%  |
| 39 | 17.562 | 2499 | 2506 | 2511 | rBV2 | 343947 | 529949 | 72.23%  | 7.899%  |
| 40 | 17.603 | 2511 | 2513 | 2525 | rVB7 | 12178  | 21459  | 2.92%   | 0.320%  |
| 41 | 17.826 | 2547 | 2551 | 2556 | rBV6 | 6660   | 13550  | 1.85%   | 0.202%  |
| 42 | 17.926 | 2562 | 2568 | 2571 | rBV7 | 4137   | 8401   | 1.15%   | 0.125%  |
| 43 | 18.038 | 2582 | 2587 | 2592 | rBV  | 30295  | 38314  | 5.22%   | 0.571%  |
| 44 | 18.425 | 2649 | 2653 | 2661 | rBV  | 104294 | 170427 | 23.23%  | 2.540%  |
| 45 | 18.566 | 2674 | 2677 | 2684 | rVB9 | 5054   | 8850   | 1.21%   | 0.132%  |
| 46 | 18.719 | 2699 | 2703 | 2707 | rBV  | 14915  | 19718  | 2.69%   | 0.294%  |
| 47 | 18.848 | 2721 | 2725 | 2729 | rVB6 | 12773  | 17409  | 2.37%   | 0.259%  |
| 48 | 19.348 | 2805 | 2810 | 2814 | rBV  | 10996  | 16513  | 2.25%   | 0.246%  |
| 49 | 19.542 | 2840 | 2843 | 2846 | rBV5 | 9555   | 14772  | 2.01%   | 0.220%  |
| 50 | 19.595 | 2846 | 2852 | 2857 | rVB  | 30723  | 53098  | 7.24%   | 0.791%  |
| 51 | 19.689 | 2862 | 2868 | 2875 | rBV2 | 101001 | 163346 | 22.26%  | 2.435%  |
| 52 | 19.841 | 2890 | 2894 | 2897 | rVB4 | 7224   | 11327  | 1.54%   | 0.169%  |
| 53 | 19.918 | 2901 | 2907 | 2909 | rVV2 | 27244  | 38402  | 5.23%   | 0.572%  |
| 54 | 19.953 | 2909 | 2913 | 2919 | rVB  | 33108  | 50014  | 6.82%   | 0.745%  |
| 55 | 20.147 | 2940 | 2946 | 2951 | rBV  | 387718 | 506423 | 69.02%  | 7.548%  |
| 56 | 20.405 | 2987 | 2990 | 2993 | rBV5 | 9110   | 12196  | 1.66%   | 0.182%  |
| 57 | 20.441 | 2993 | 2996 | 3000 | rVV  | 38990  | 47252  | 6.44%   | 0.704%  |
| 58 | 20.940 | 3075 | 3081 | 3086 | rVV2 | 59101  | 80891  | 11.03%  | 1.206%  |
| 59 | 21.457 | 3164 | 3169 | 3179 | rVB3 | 130171 | 232788 | 31.73%  | 3.470%  |
| 60 | 21.545 | 3181 | 3184 | 3189 | rVB4 | 12768  | 19206  | 2.62%   | 0.286%  |
| 61 | 21.710 | 3208 | 3212 | 3217 | rVB  | 47345  | 67980  | 9.27%   | 1.013%  |
| 62 | 21.833 | 3225 | 3233 | 3240 | rBV  | 413429 | 722232 | 98.44%  | 10.765% |
| 63 | 22.027 | 3261 | 3266 | 3271 | rBV2 | 64040  | 95285  | 12.99%  | 1.420%  |
| 64 | 22.662 | 3368 | 3374 | 3381 | rBV  | 68663  | 122586 | 16.71%  | 1.827%  |
| 65 | 23.043 | 3435 | 3439 | 3444 | rVB7 | 15455  | 26311  | 3.59%   | 0.392%  |
| 66 | 23.378 | 3490 | 3496 | 3504 | rBV2 | 55567  | 112522 | 15.34%  | 1.677%  |
| 67 | 23.584 | 3527 | 3531 | 3535 | rVB3 | 11035  | 17848  | 2.43%   | 0.266%  |
| 68 | 24.224 | 3633 | 3640 | 3647 | rBV2 | 36382  | 80384  | 10.96%  | 1.198%  |
| 69 | 25.164 | 3790 | 3800 | 3820 | rVB2 | 223166 | 733685 | 100.00% | 10.936% |
| 70 | 26.404 | 4007 | 4011 | 4022 | rVB3 | 23556  | 63693  | 8.68%   | 0.949%  |

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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

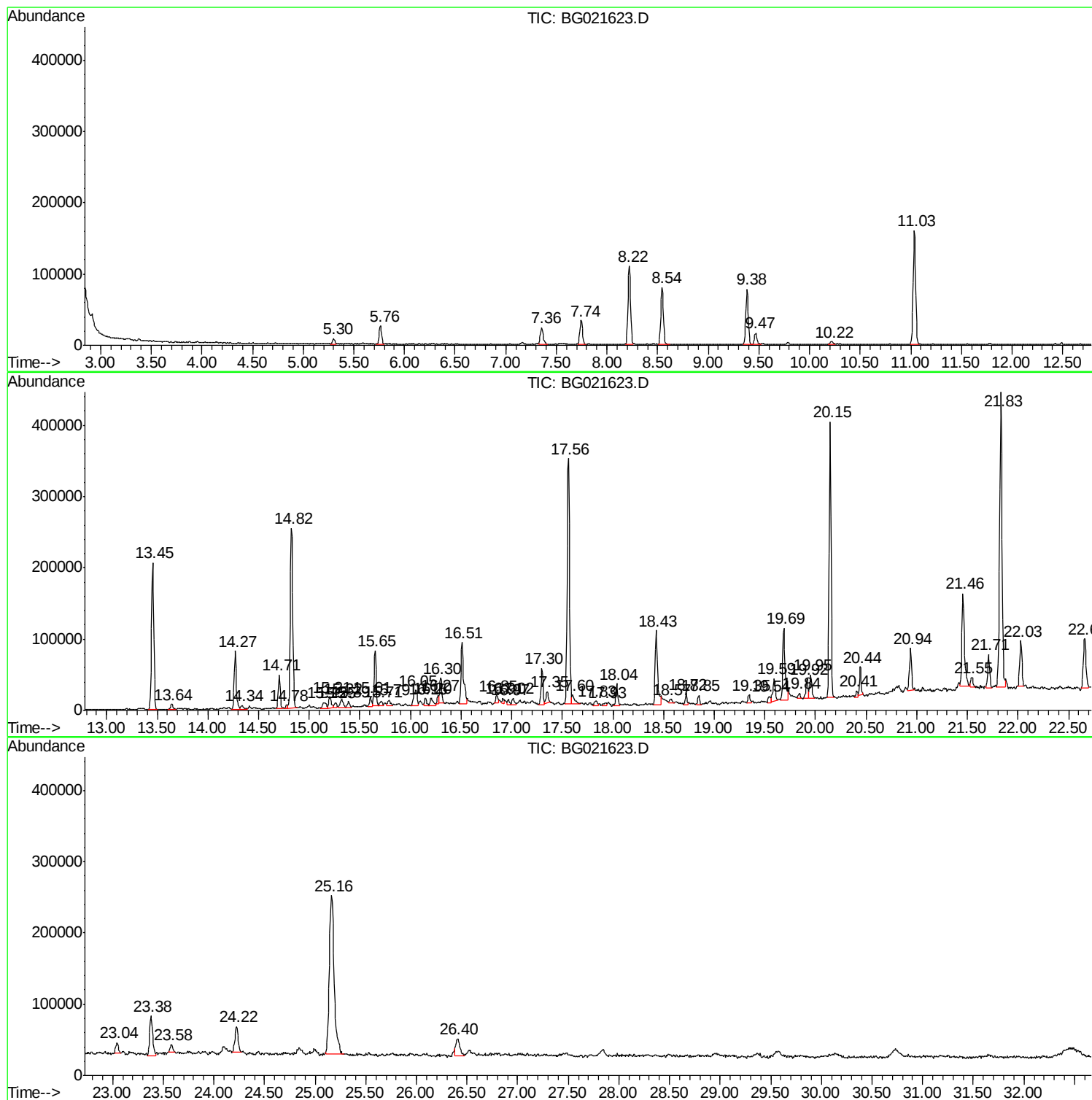
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Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

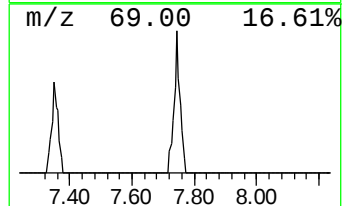
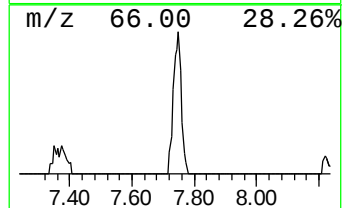
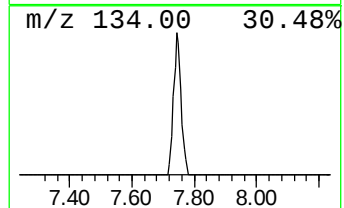
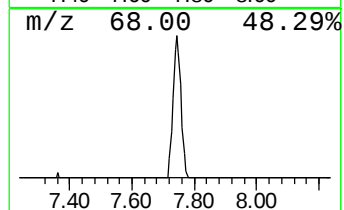
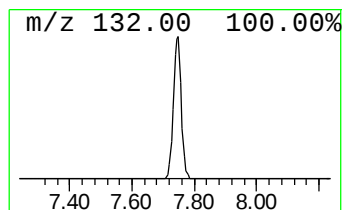
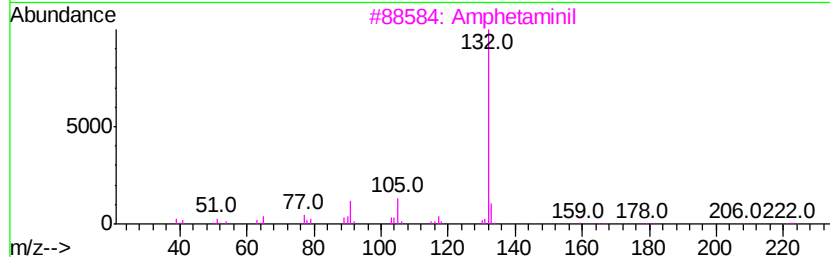
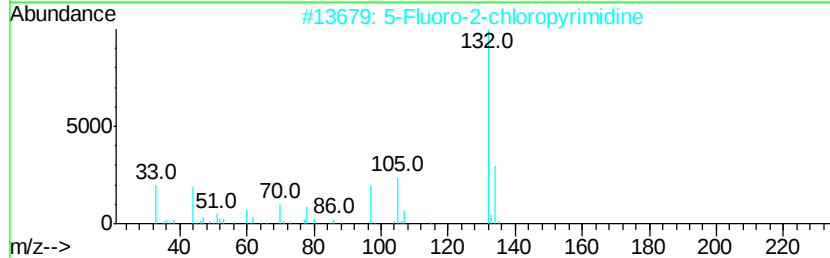
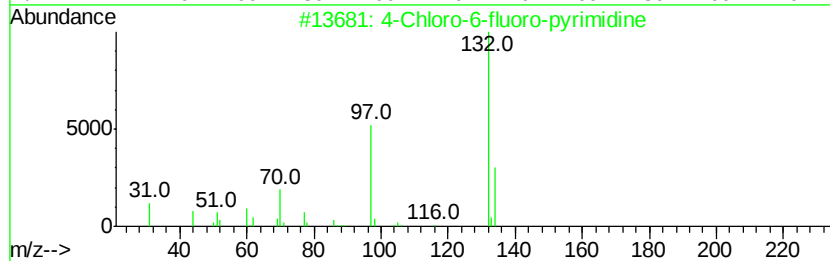
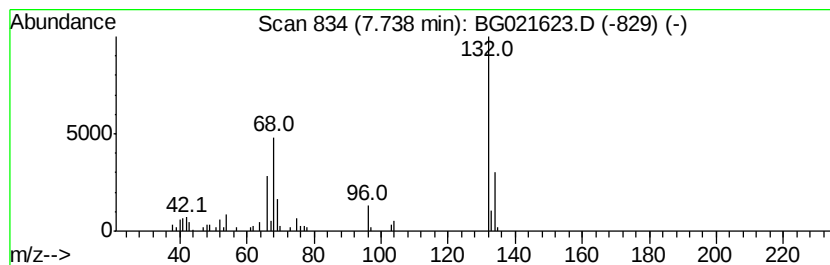
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.74 Concentration Rank 4

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 7.74 | 6.41 ng | 60224 | 1,4-Dichlorobenzene-d4 | 8.22 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm   | CAS#        | Qual |
|------|----|---|------------------------------|-----|-----------|-------------|------|
| 1    |    |   | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27   |
| 2    |    |   | 5-Fluoro-2-chloropyrimidine  | 132 | C4H2ClFN2 | 062802-42-0 | 16   |
| 3    |    |   | Amphetaminil                 | 250 | C17H18N2  | 017590-01-1 | 10   |
| 4    |    |   | 1H-Benzimidazole, 2-methyl-  | 132 | C8H8N2    | 000615-15-6 | 10   |
| 5    |    |   | Benzene, 1,3,5-trifluoro-    | 132 | C6H3F3    | 000372-38-3 | 10   |



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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

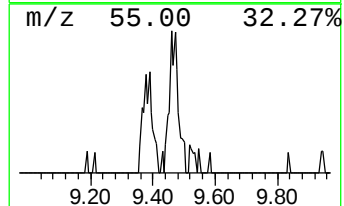
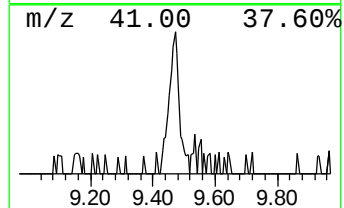
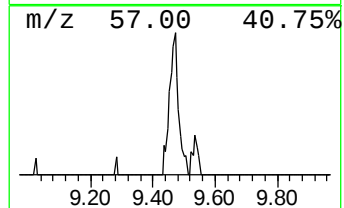
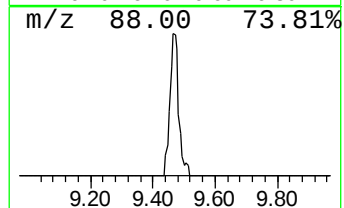
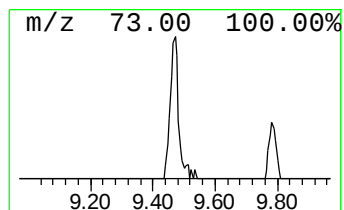
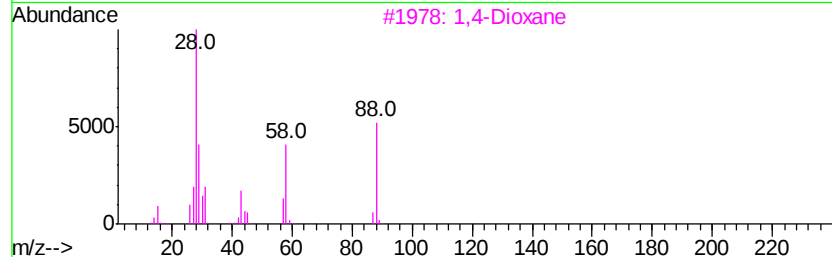
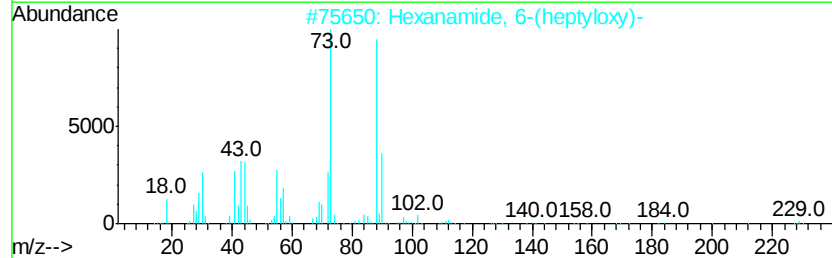
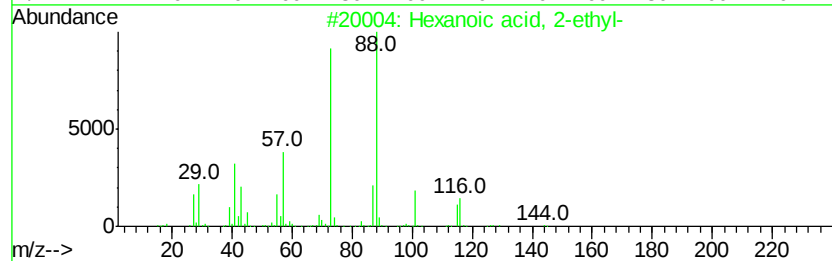
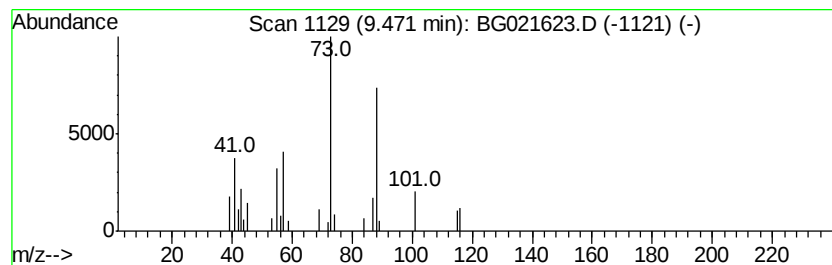
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexanoic acid, 2-ethyl- Concentration Rank 10

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 9.47 | 3.00 ng | 28159 | 1,4-Dichlorobenzene-d4 | 8.22 |

| Hit# | of | Tentative ID                            | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Hexanoic acid, 2-ethyl-                 | 144 | C8H16O2   | 000149-57-5  | 78   |
| 2    |    | Hexanamide, 6-(heptyloxy)-              | 229 | C13H27NO2 | 055191-08-7  | 50   |
| 3    |    | 1,4-Dioxane                             | 88  | C4H8O2    | 000123-91-1  | 43   |
| 4    |    | 1-Methyl-1-silacyclopentan-1-ol         | 116 | C5H12OSi  | 1000216-84-4 | 42   |
| 5    |    | Cyclohexanecarboxylic acid, .alpha.-... | 170 | C10H18O2  | 006051-00-9  | 40   |



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ALS Vial : 25 Sample Multiplier: 1

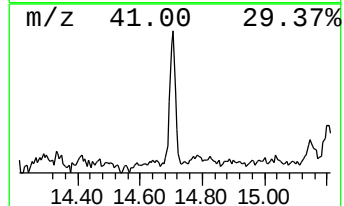
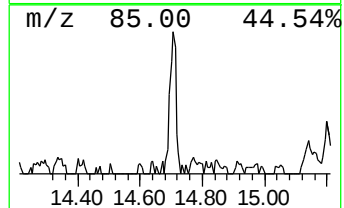
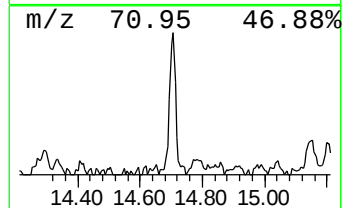
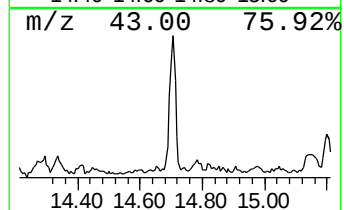
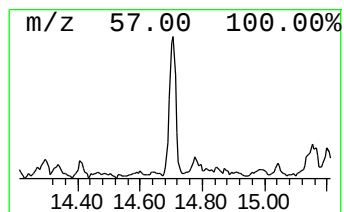
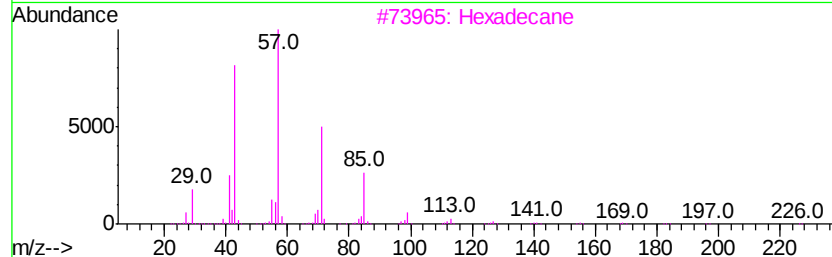
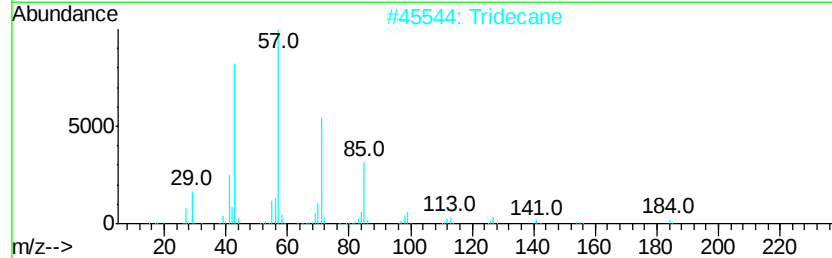
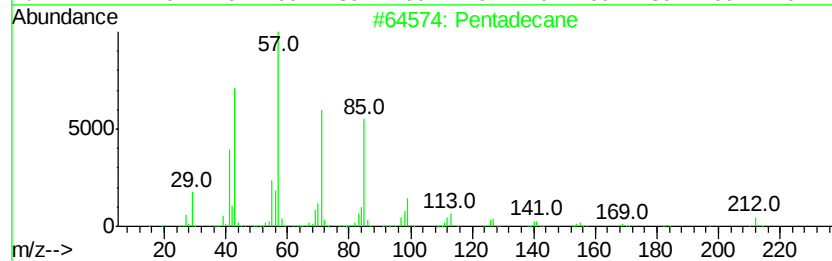
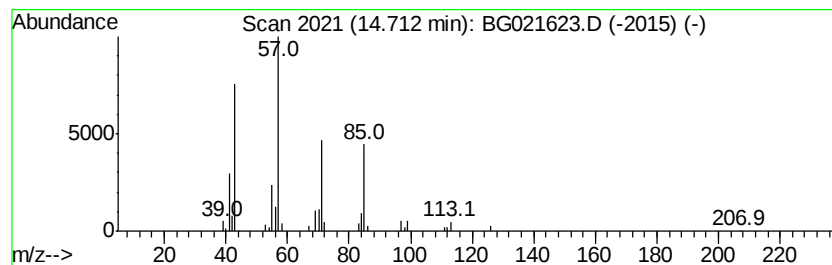
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Pentadecane Concentration Rank 11

| R.T.    | EstConc     | Area         | Relative to ISTD | R.T.      |
|---------|-------------|--------------|------------------|-----------|
| 14.71   | 2.96 ng     | 61654        | Acenaphthene-d10 | 14.82     |
| Hit# of | 5           | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Pentadecane | 212 C15H32   | 000629-62-9      | 94        |
| 2       | Tridecane   | 184 C13H28   | 000629-50-5      | 90        |
| 3       | Hexadecane  | 226 C16H34   | 000544-76-3      | 86        |
| 4       | Tetradecane | 198 C14H30   | 000629-59-4      | 86        |
| 5       | Dodecane    | 170 C12H26   | 000112-40-3      | 86        |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

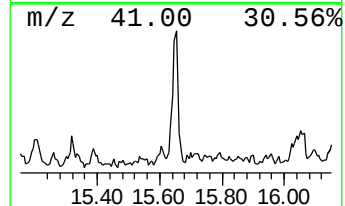
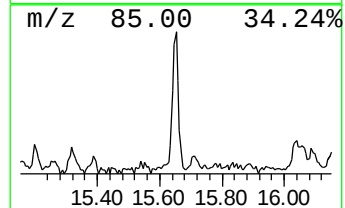
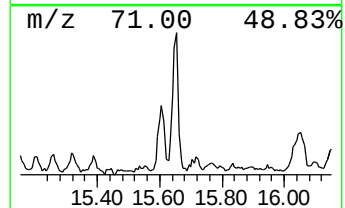
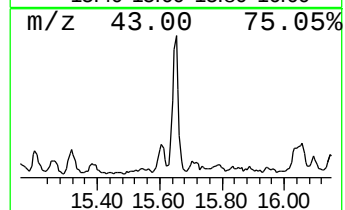
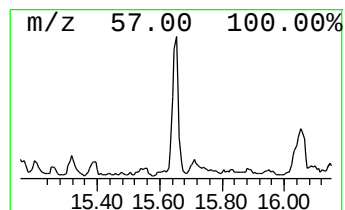
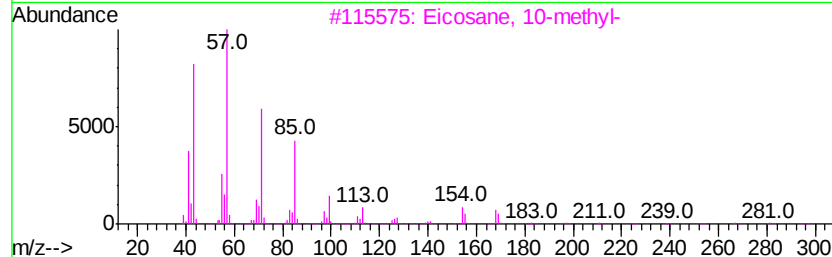
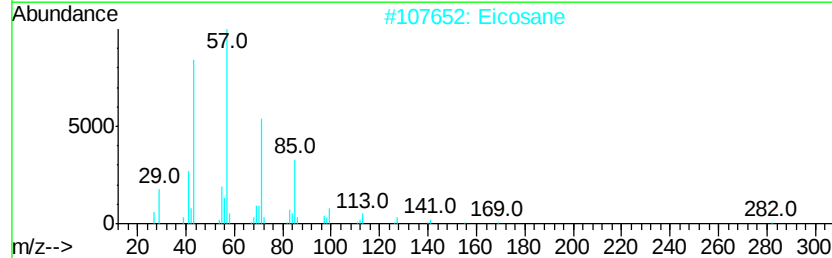
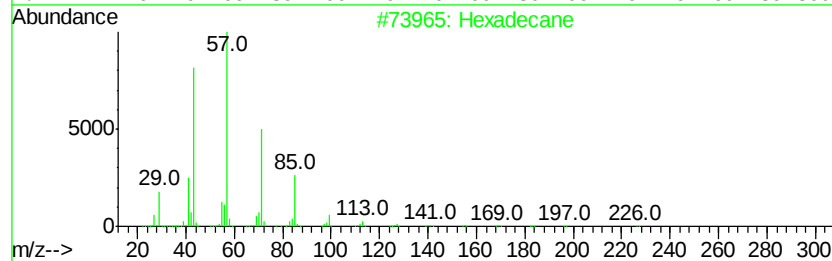
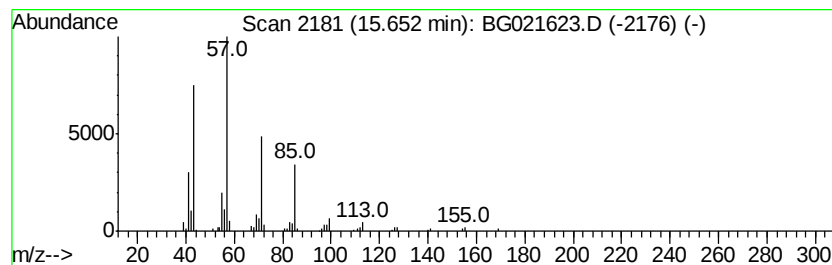
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Hexadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.65 | 4.88 ng | 101524 | Acenaphthene-d10 | 14.82 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 91   |
| 2       | Eicosane             |              | 282 | C20H42  | 000112-95-8 | 91   |
| 3       | Eicosane, 10-methyl- |              | 296 | C21H44  | 054833-23-7 | 86   |
| 4       | Tridecane            |              | 184 | C13H28  | 000629-50-5 | 83   |
| 5       | Decane               |              | 142 | C10H22  | 000124-18-5 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

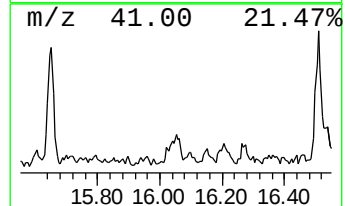
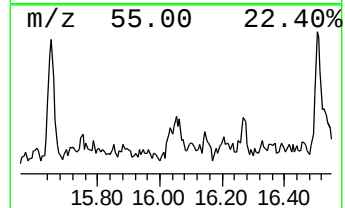
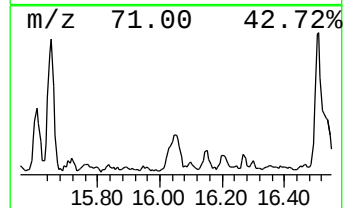
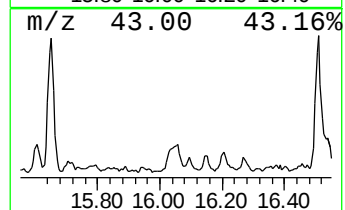
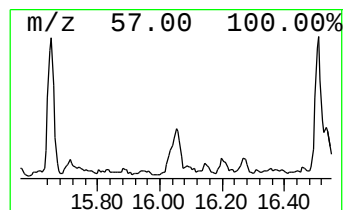
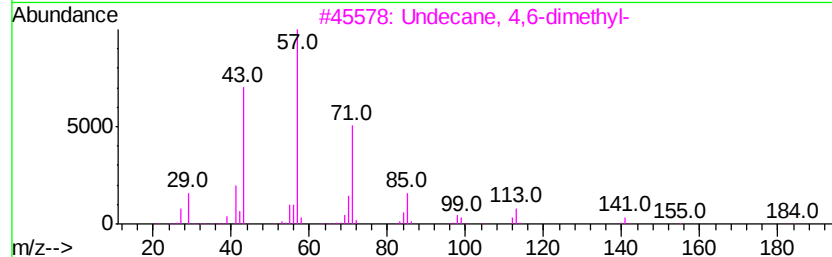
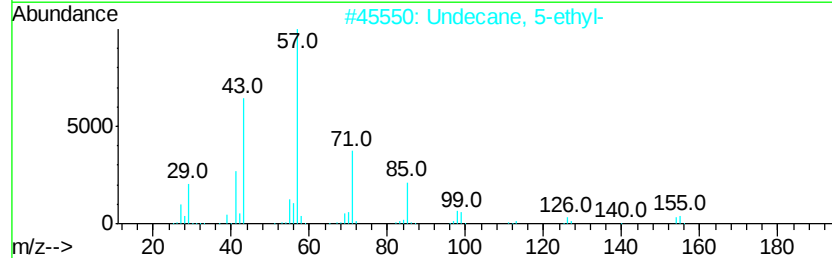
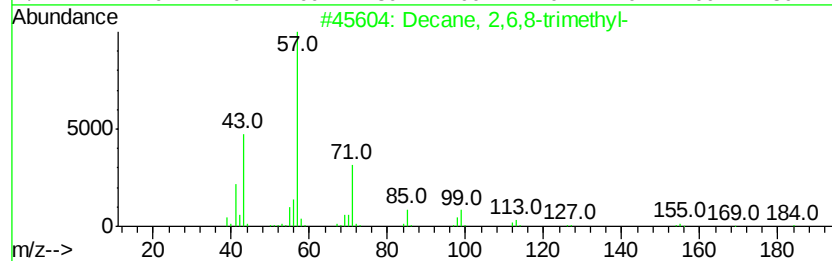
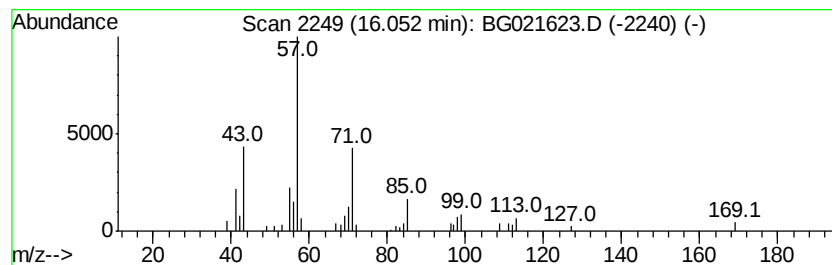
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Decane, 2,6,8-trimethyl- Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.05 | 2.60 ng | 54034 | Acenaphthene-d10 | 14.82 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 2,6,8-trimethyl- | 184 | C13H28  | 062108-26-3 | 59   |
| 2    |    | Undecane, 5-ethyl-       | 184 | C13H28  | 017453-94-0 | 59   |
| 3    |    | Undecane, 4,6-dimethyl-  | 184 | C13H28  | 017312-82-2 | 59   |
| 4    |    | Undecane, 3,5-dimethyl-  | 184 | C13H28  | 017312-81-1 | 59   |
| 5    |    | Tridecane, 6-methyl-     | 198 | C14H30  | 013287-21-3 | 53   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

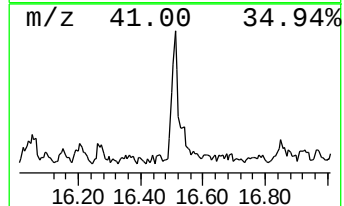
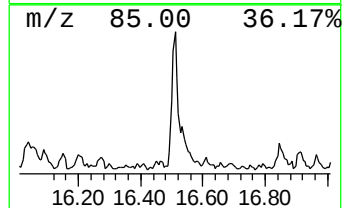
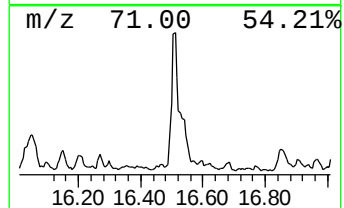
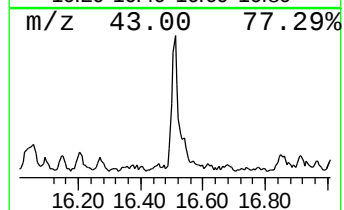
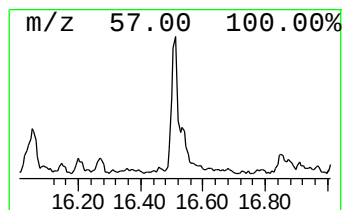
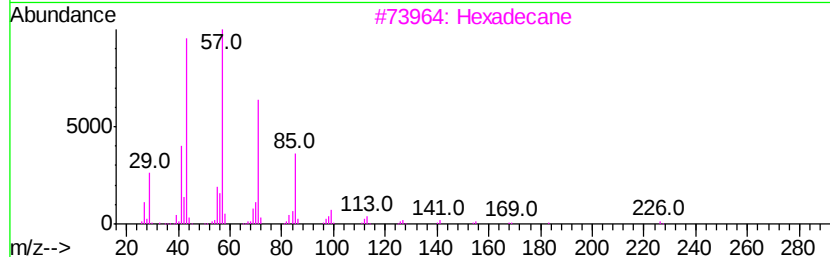
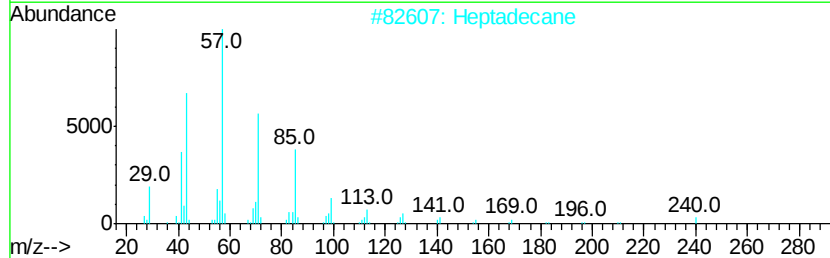
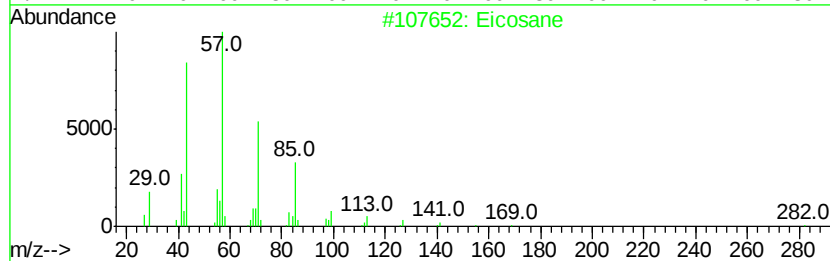
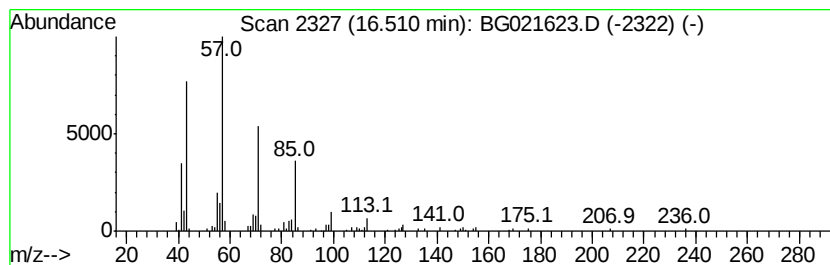
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Eicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.51 | 5.71 ng | 151178 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|-----------|--------------|-----|---------|-------------|------|
| 1         | Eicosane     | 282 | C20H42  | 000112-95-8 | 91   |
| 2         | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |
| 3         | Hexadecane   | 226 | C16H34  | 000544-76-3 | 87   |
| 4         | Pentadecane  | 212 | C15H32  | 000629-62-9 | 86   |
| 5         | Tetradecane  | 198 | C14H30  | 000629-59-4 | 86   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

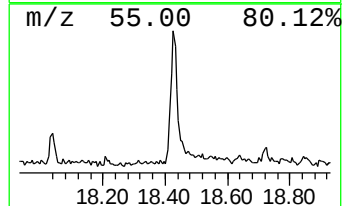
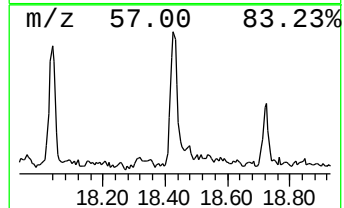
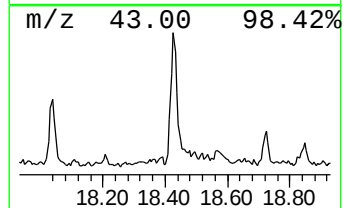
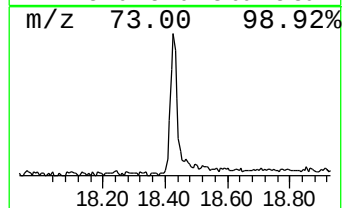
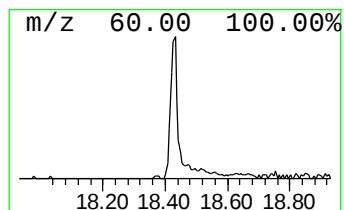
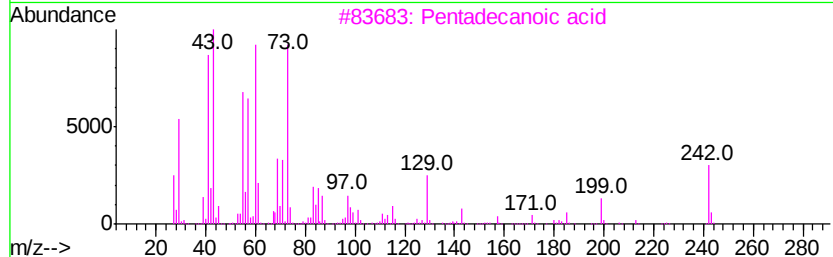
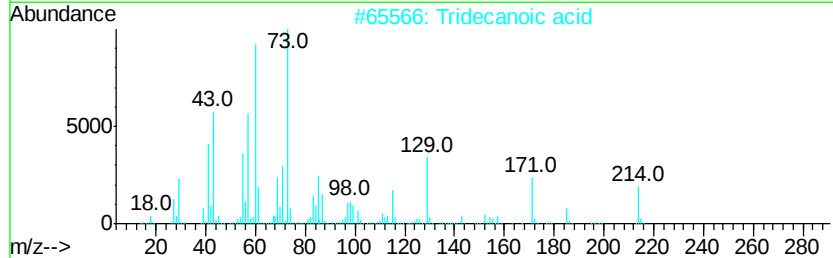
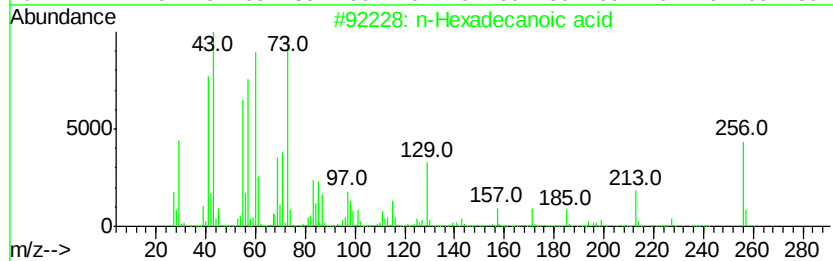
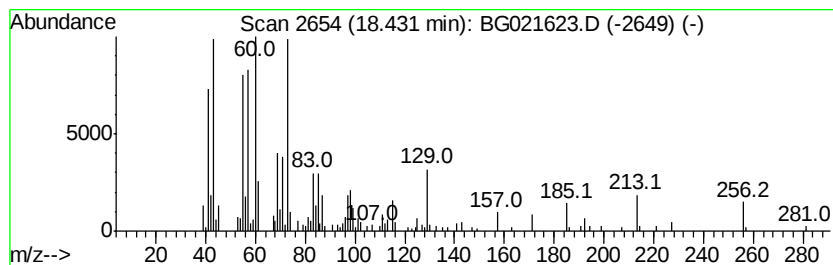
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 n-Hexadecanoic acid Concentration Rank 3

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 18.43     | 6.43 ng             | 170427 | Phenanthrene-d10 | 17.56       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 97   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 81   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 64   |
| 4         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 60   |
| 5         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 58   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

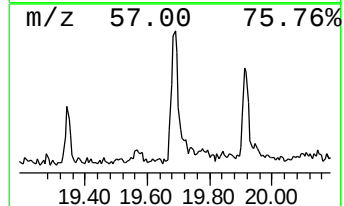
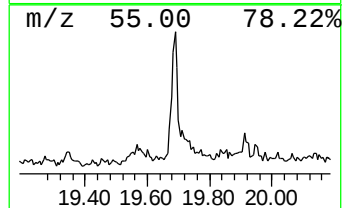
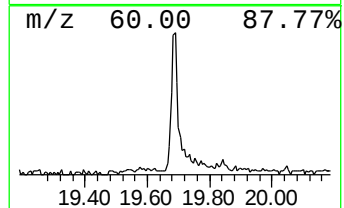
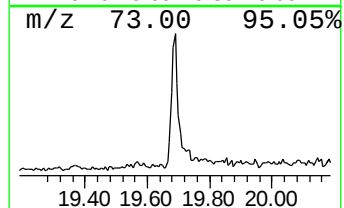
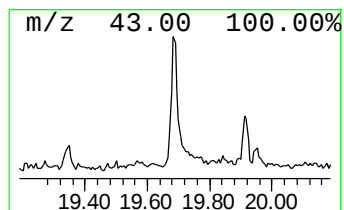
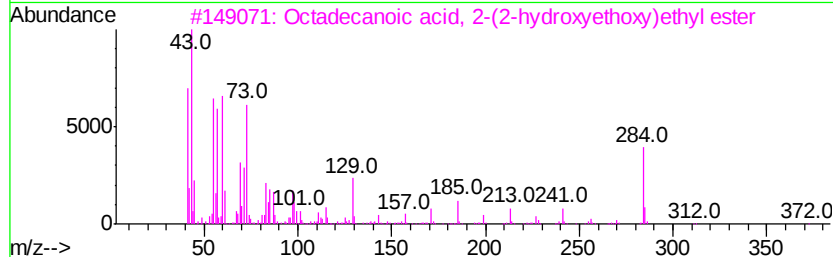
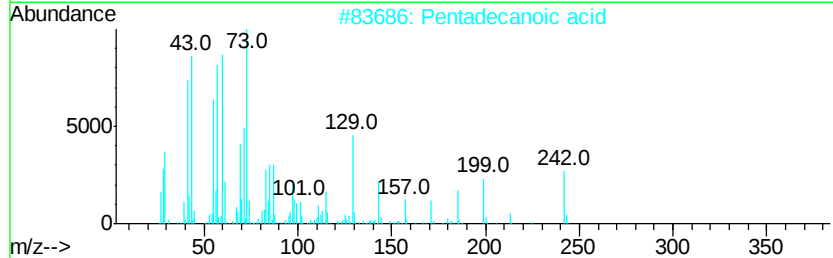
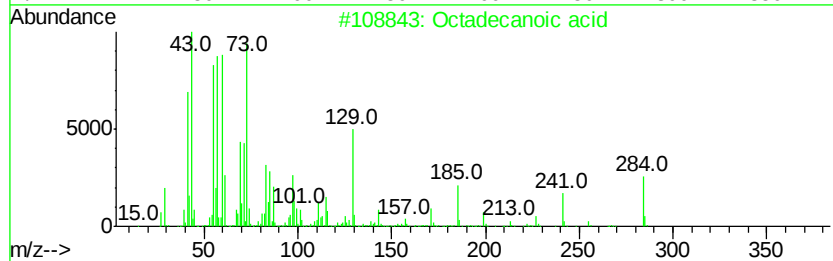
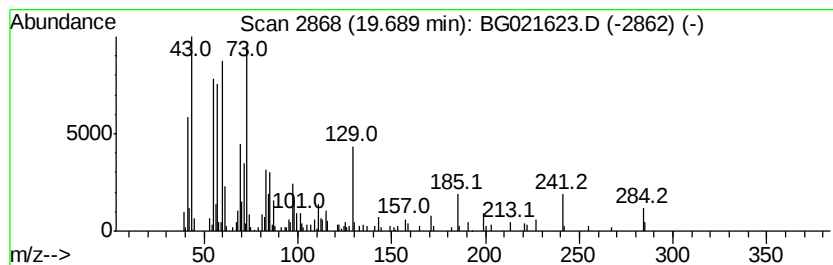
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.69 | 6.16 ng | 163346 | Phenanthrene-d10 | 17.56 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 98   |
| 2    |    | Pentadecanoic acid                   | 242 | C15H30O2 | 001002-84-2 | 80   |
| 3    |    | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 72   |
| 4    |    | Tetradecanoic acid                   | 228 | C14H28O2 | 000544-63-8 | 72   |
| 5    |    | Tridecanoic acid                     | 214 | C13H26O2 | 000638-53-9 | 68   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

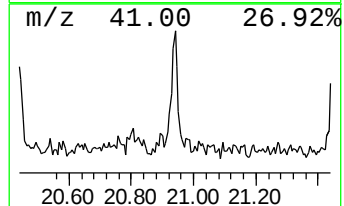
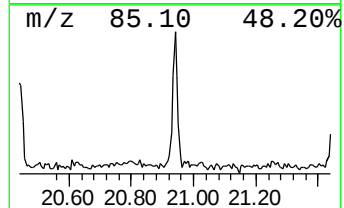
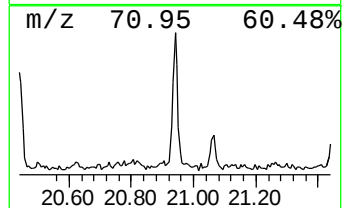
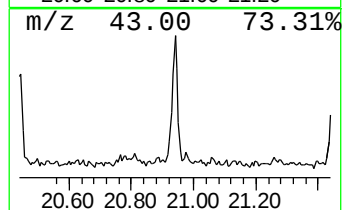
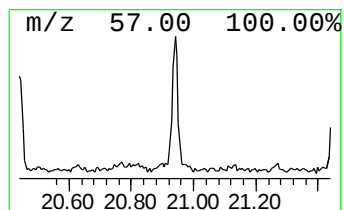
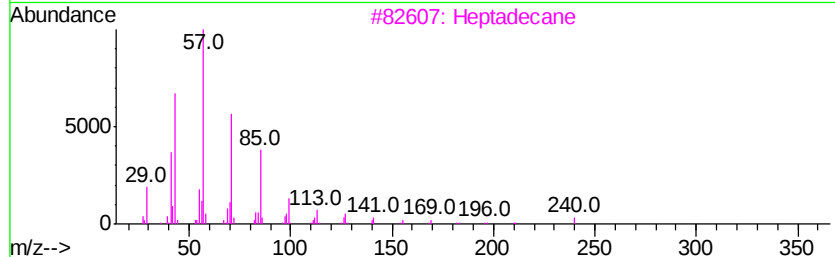
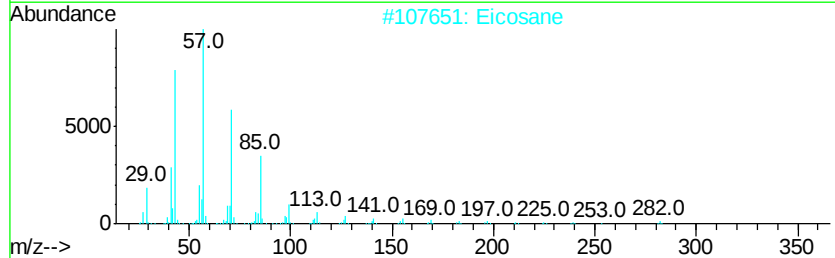
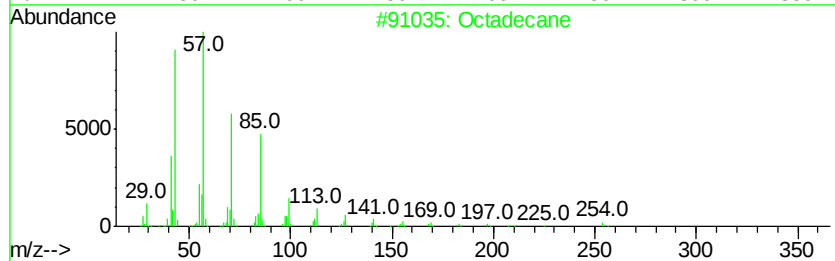
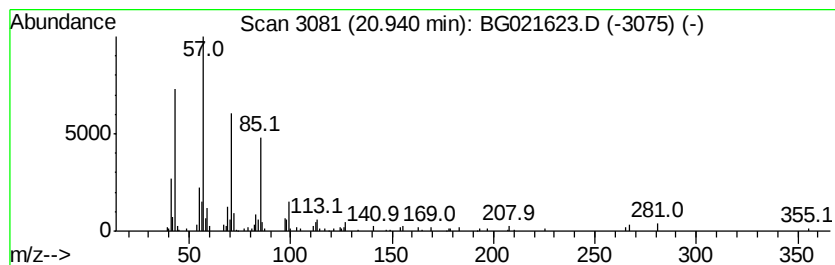
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Octadecane Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.94 | 2.24 ng | 80891 | Chrysene-d12     | 21.83 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane   | 254 | C18H38  | 000593-45-3 | 68   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 68   |
| 3    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 64   |
| 4    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 64   |
| 5    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 58   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

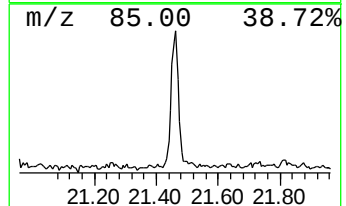
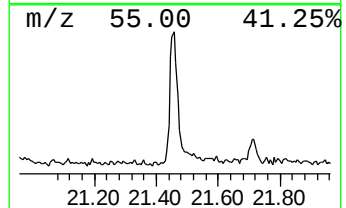
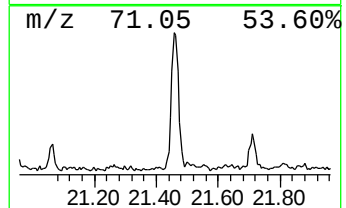
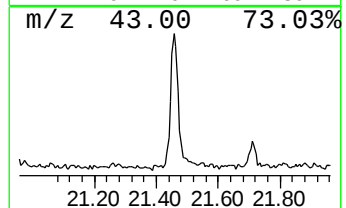
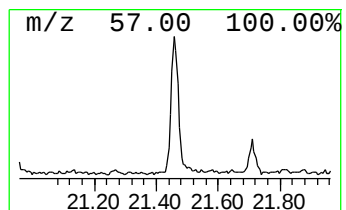
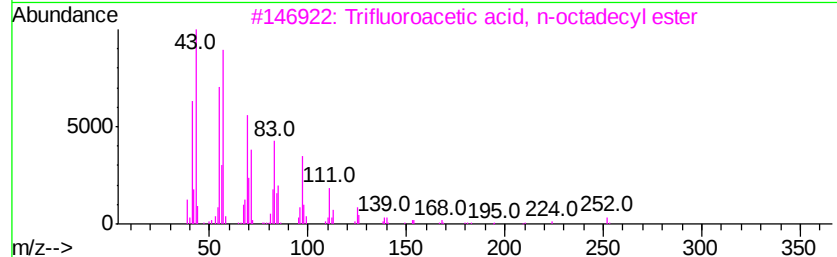
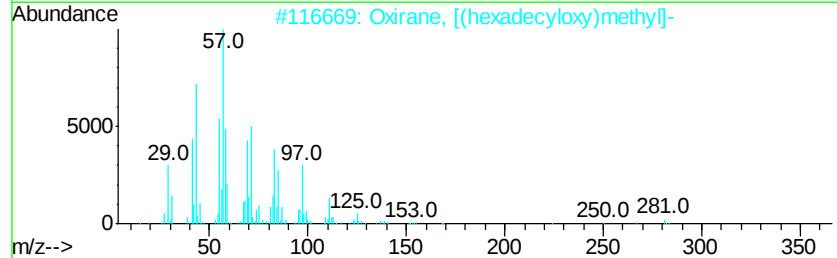
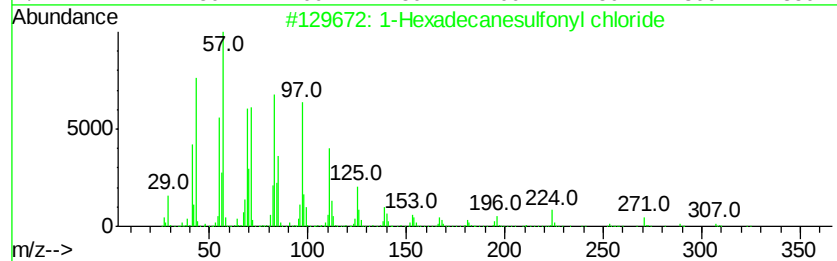
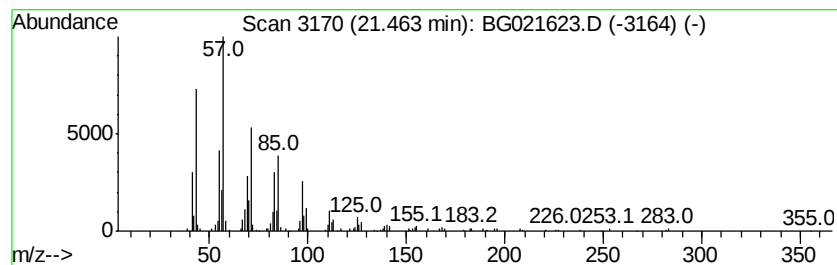
Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 1-Hexadecanesulfonyl chloride Concentration Rank 2

| R.T.      | EstConc                            | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|--------|------------------|-------------|------|
| 21.46     | 6.45 ng                            | 232788 | Chrysene-d12     | 21.83       |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Hexadecanesulfonyl chloride      | 324    | C16H33ClO2S      | 038775-38-1 | 86   |
| 2         | Oxirane, [(hexadecyloxy)methyl]-   | 298    | C19H38O2         | 015965-99-8 | 83   |
| 3         | Trifluoroacetic acid, n-octadecyl- | 366    | C20H37F3O2       | 079392-43-1 | 70   |
| 4         | Trichloroacetic acid, tetradecyl-  | 358    | C16H29Cl3O2      | 074339-52-9 | 62   |
| 5         | Cyclotetracosane                   | 336    | C24H48           | 000297-03-0 | 62   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG041316\  
Data File : BG021623.D  
Acq On : 13 Apr 2016 16:16  
Operator : UM/SJ  
Sample : H2480-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

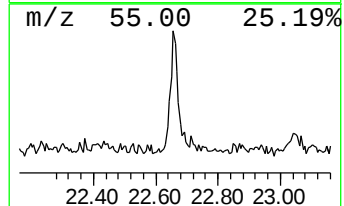
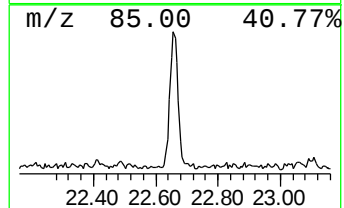
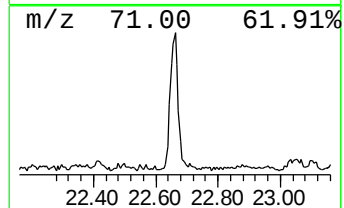
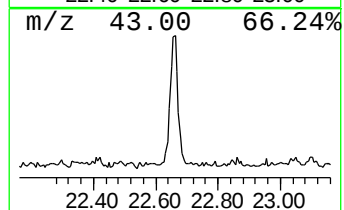
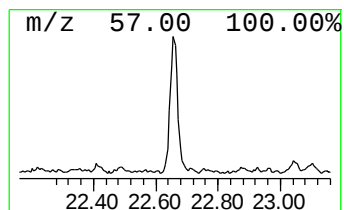
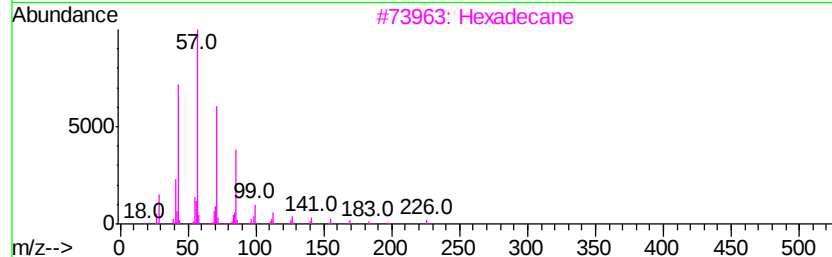
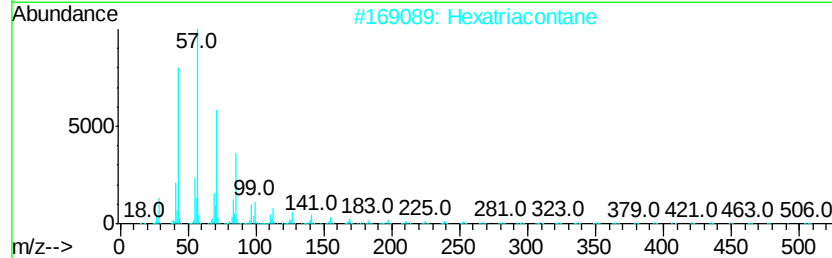
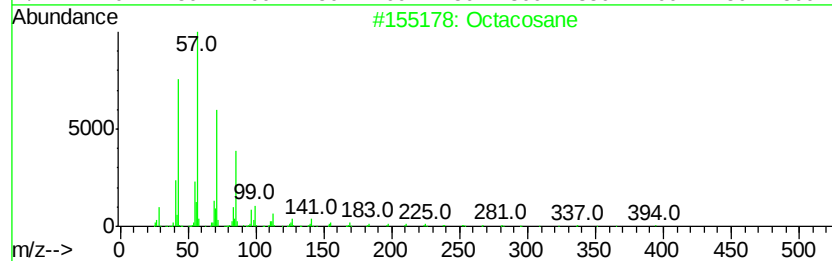
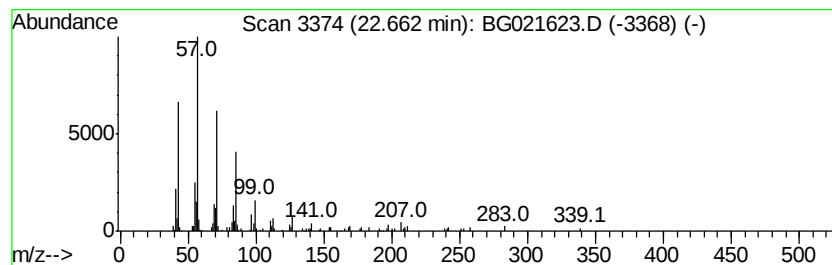
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Octacosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.66 | 3.39 ng | 122586 | Chrysene-d12     | 21.83 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Octacosane        | 394 | C28H58  | 000630-02-4 | 87   |
| 2    |    | Hexatriacontane   | 507 | C36H74  | 000630-06-8 | 87   |
| 3    |    | Hexadecane        | 226 | C16H34  | 000544-76-3 | 83   |
| 4    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 83   |
| 5    |    | Eicosane          | 282 | C20H42  | 000112-95-8 | 83   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041316\  
 Data File : BG021623.D  
 Acq On : 13 Apr 2016 16:16  
 Operator : UM/SJ  
 Sample : H2480-01  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FRAC-TANK

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown7.74          | 7.74  | 6.4     | ng    | 60224    | 1                     | 8.22  | 187981 | 20.0 |
| Hexanoic acid, 2-... | 9.47  | 3.0     | ng    | 28159    | 1                     | 8.22  | 187981 | 20.0 |
| Pentadecane          | 14.71 | 3.0     | ng    | 61654    | 3                     | 14.82 | 416358 | 20.0 |
| Hexadecane           | 15.65 | 4.9     | ng    | 101524   | 3                     | 14.82 | 416358 | 20.0 |
| Decane, 2,6,8-tri... | 16.05 | 2.6     | ng    | 54034    | 3                     | 14.82 | 416358 | 20.0 |
| Eicosane             | 16.51 | 5.7     | ng    | 151178   | 4                     | 17.56 | 529949 | 20.0 |
| n-Hexadecanoic acid  | 18.43 | 6.4     | ng    | 170427   | 4                     | 17.56 | 529949 | 20.0 |
| Octadecanoic acid    | 19.69 | 6.2     | ng    | 163346   | 4                     | 17.56 | 529949 | 20.0 |
| Octadecane           | 20.94 | 2.2     | ng    | 80891    | 5                     | 21.83 | 722232 | 20.0 |
| 1-Hexadecanesulfo... | 21.46 | 6.5     | ng    | 232788   | 5                     | 21.83 | 722232 | 20.0 |
| Octacosane           | 22.66 | 3.4     | ng    | 122586   | 5                     | 21.83 | 722232 | 20.0 |