LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

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_F\METHODS\8270-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.418 | 26 | 29 | 39 | rVB2 | 33517 | 89149 | 1.42% | 0.131% |
| 2 | 4.281 | 189 | 192 | 195 | rBV | 117003 | 158786 | 2.52% | 0.233% |
| 3 | 4.956 | 247 | 251 | 253 | rBV | 1700836 | 2595540 | 41.25% | 3.808% |
| 4 | 5.379 | 286 | 288 | 291 | rBV | 3535819 | 4468768 | 71.02% | 6.556% |
| 5 | 6.419 | 376 | 379 | 382 | rBV | 3912298 | 5461267 | 86.80% | 8.013% |
| 6 | 6.556 | 388 | 391 | 393 | rBV | 4247907 | 5180702 | 82.34% | 7.601% |
| 7 | 6.784 | 409 | 411 | 413 | rBV | 2139070 | 1926218 | 30.61% | 2.826% |
| 8 | 6.944 | 422 | 425 | 427 | rBV | 3267571 | 4317589 | 68.62% | 6.335% |
| 9 | 7.345 | 457 | 460 | 463 | rBV | 3298403 | 3308376 | 52.58% | 4.854% |
| 10 | 8.065 | 521 | 523 | 526 | rBV | 2268342 | 2515917 | 39.99% | 3.691% |
| 11 | 9.150 | 615 | 618 | 620 | rBV | 6763594 | 6291897 | 100.00% | 9.231% |
| 12 | 9.242 | 623 | 626 | 628 | rBV3 | 68875 | 112235 | 1.78% | 0.165% |
| 13 | 9.539 | 650 | 652 | 656 | rVB | 544548 | 528918 | 8.41% | 0.776% |
| 14 | 9.676 | 663 | 664 | 666 | rBV | 61918 | 89390 | 1.42% | 0.131% |
| 15 | 9.733 | 666 | 669 | 670 | rVV2 | 59904 | 99076 | 1.57% | 0.145% |
| 16 | 9.768 | 670 | 672 | 674 | rVB | 160058 | 164694 | 2.62% | 0.242% |
| 17 | 9.825 | 674 | 677 | 679 | rBV | 2973934 | 2815354 | 44.75% | 4.131% |
| 18 | 10.019 | 693 | 694 | 696 | rVB | 65729 | 85241 | 1.35% | 0.125% |
| 19 | 10.236 | 708 | 713 | 714 | rBV | 60368 | 96907 | 1.54% | 0.142% |
| 20 | 10.259 | 714 | 715 | 717 | rVB | 247835 | 239535 | 3.81% | 0.351% |
| 21 | 10.362 | 723 | 724 | 728 | rVB2 | 88381 | 124109 | 1.97% | 0.182% |
| 22 | 10.488 | 731 | 735 | 737 | rBV | 86969 | 162179 | 2.58% | 0.238% |
| 23 | 10.522 | 737 | 738 | 741 | rVB2 | 61039 | 75043 | 1.19% | 0.110% |
| 24 | 10.602 | 743 | 745 | 748 | rBV2 | 1625583 | 1801604 | 28.63% | 2.643% |
| 25 | 10.739 | 754 | 757 | 760 | rBV | 295325 | 429218 | 6.82% | 0.630% |
| 26 | 10.922 | 768 | 773 | 778 | rBV5 | 51992 | 157525 | 2.50% | 0.231% |
| 27 | 11.071 | 781 | 786 | 788 | rBV4 | 44970 | 108204 | 1.72% | 0.159% |
| 28 | 11.185 | 794 | 796 | 797 | rBV | 264428 | 253871 | 4.03% | 0.372% |
| 29 | 11.299 | 804 | 806 | 810 | rBV2 | 2299526 | 3396197 | 53.98% | 4.983% |
| 30 | 11.379 | 810 | 813 | 815 | rVB | 279518 | 296019 | 4.70% | 0.434% |
| 31 | 11.608 | 831 | 833 | 834 | rBV2 | 234039 | 199803 | 3.18% | 0.293% |
| 32 | 11.802 | 848 | 850 | 851 | rBV | 197228 | 177864 | 2.83% | 0.261% |
| 33 | 11.836 | 851 | 853 | 855 | rVB | 179549 | 241878 | 3.84% | 0.355% |
| 34 | 11.882 | 855 | 857 | 858 | rBV2 | 65787 | 91161 | 1.45% | 0.134% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

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_F\METHODS\8270-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.916 | 858 | 860 | 864 | rVB2 | 274682 | 433849 | 6.90% | 0.637% |
| 36 | 12.019 | 864 | 869 | 872 | rBV2 | 86405 | 165913 | 2.64% | 0.243% |
| 37 | 12.099 | 872 | 876 | 880 | rBV2 | 167473 | 286425 | 4.55% | 0.420% |
| 38 | 12.282 | 890 | 892 | 895 | rVB2 | 53646 | 103498 | 1.64% | 0.152% |
| 39 | 12.351 | 895 | 898 | 900 | rBV | 112973 | 148310 | 2.36% | 0.218% |
| 40 | 12.408 | 900 | 903 | 904 | rVV2 | 91975 | 150772 | 2.40% | 0.221% |
| 41 | 12.431 | 904 | 905 | 909 | rVV | 105634 | 120002 | 1.91% | 0.176% |
| 42 | 12.511 | 909 | 912 | 914 | rVV | 1925707 | 1653963 | 26.29% | 2.427% |
| 43 | 12.602 | 919 | 920 | 922 | rVB | 174705 | 150164 | 2.39% | 0.220% |
| 44 | 12.659 | 922 | 925 | 929 | rBV5 | 51035 | 111791 | 1.78% | 0.164% |
| 45 | 12.739 | 929 | 932 | 934 | rBV | 1436141 | 1462464 | 23.24% | 2.146% |
| 46 | 12.774 | 934 | 935 | 939 | rVB2 | 90836 | 153184 | 2.43% | 0.225% |
| 47 | 12.854 | 941 | 942 | 943 | rBV | 70181 | 85270 | 1.36% | 0.125% |
| 48 | 12.888 | 943 | 945 | 948 | rVB | 4473313 | 4237887 | 67.35% | 6.218% |
| 49 | 12.957 | 948 | 951 | 957 | rBV3 | 86684 | 156352 | 2.48% | 0.229% |
| 50 | 13.071 | 957 | 961 | 963 | rVB2 | 165008 | 306710 | 4.87% | 0.450% |
| 51 | 13.128 | 963 | 966 | 968 | rBV2 | 155991 | 215350 | 3.42% | 0.316% |
| 52 | 13.174 | 968 | 970 | 974 | rVB | 118670 | 167184 | 2.66% | 0.245% |
| 53 | 13.265 | 974 | 978 | 979 | rBV3 | 57794 | 99030 | 1.57% | 0.145% |
| 54 | 13.288 | 979 | 980 | 982 | rBV | 58005 | 69526 | 1.11% | 0.102% |
| 55 | 13.471 | 994 | 996 | 999 | rVB2 | 116502 | 125495 | 1.99% | 0.184% |
| 56 | 13.574 | 1002 | 1005 | 1007 | rVV | 94635 | 130748 | 2.08% | 0.192% |
| 57 | 13.677 | 1012 | 1014 | 1016 | rBV2 | 113411 | 167215 | 2.66% | 0.245% |
| 58 | 13.711 | 1016 | 1017 | 1018 | rVV | 99528 | 85993 | 1.37% | 0.126% |
| 59 | 13.791 | 1021 | 1024 | 1028 | rVB2 | 232209 | 445837 | 7.09% | 0.654% |
| 60 | 13.928 | 1033 | 1036 | 1041 | rBV2 | 1634372 | 2960122 | 47.05% | 4.343% |
| 61 | 14.077 | 1047 | 1049 | 1050 | rBV | 87701 | 93747 | 1.49% | 0.138% |
| 62 | 14.111 | 1050 | 1052 | 1054 | rVV2 | 108734 | 162209 | 2.58% | 0.238% |
| 63 | 14.317 | 1068 | 1070 | 1072 | rBV | 87594 | 87960 | 1.40% | 0.129% |
| 64 | 14.419 | 1077 | 1079 | 1085 | rVB3 | 153307 | 301455 | 4.79% | 0.442% |
| 65 | 14.717 | 1103 | 1105 | 1108 | rVB2 | 144781 | 154668 | 2.46% | 0.227% |
| 66 | 14.785 | 1109 | 1111 | 1113 | rBV3 | 87918 | 117344 | 1.87% | 0.172% |
| 67 | 14.945 | 1122 | 1125 | 1130 | rBV | 411243 | 865512 | 13.76% | 1.270% |
| 68 | 15.037 | 1131 | 1133 | 1136 | rVB2 | 202255 | 271972 | 4.32% | 0.399% |
| 69 | 15.220 | 1147 | 1149 | 1152 | rBV | 228336 | 295585 | 4.70% | 0.434% |
| 70 | 15.277 | 1152 | 1154 | 1157 | rBV | 329227 | 430888 | 6.85% | 0.632% |
| 71 | 15.345 | 1157 | 1160 | 1162 | rBV | 1267949 | 1645183 | 26.15% | 2.414% |

LSC Area Percent Report

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Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

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_F\METHODS\8270-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.482 | 1170 | 1172 | 1176 | rBV3 | 61624 | 133795 | 2.13% | 0.196% |
| 73 | 15.791 | 1197 | 1199 | 1201 | rBV | 145077 | 210320 | 3.34% | 0.309% |
| 74 | 15.997 | 1215 | 1217 | 1221 | rVB | 94532 | 164716 | 2.62% | 0.242% |
| 75 | 16.260 | 1238 | 1240 | 1245 | rVB | 126324 | 217479 | 3.46% | 0.319% |
| 76 | 16.408 | 1250 | 1253 | 1257 | rVB3 | 98623 | 210355 | 3.34% | 0.309% |
| 77 | 16.694 | 1275 | 1278 | 1283 | rVB2 | 145873 | 323369 | 5.14% | 0.474% |
| 78 | 17.094 | 1310 | 1313 | 1318 | rVB | 113547 | 218079 | 3.47% | 0.320% |

Sum of corrected areas: 68157924

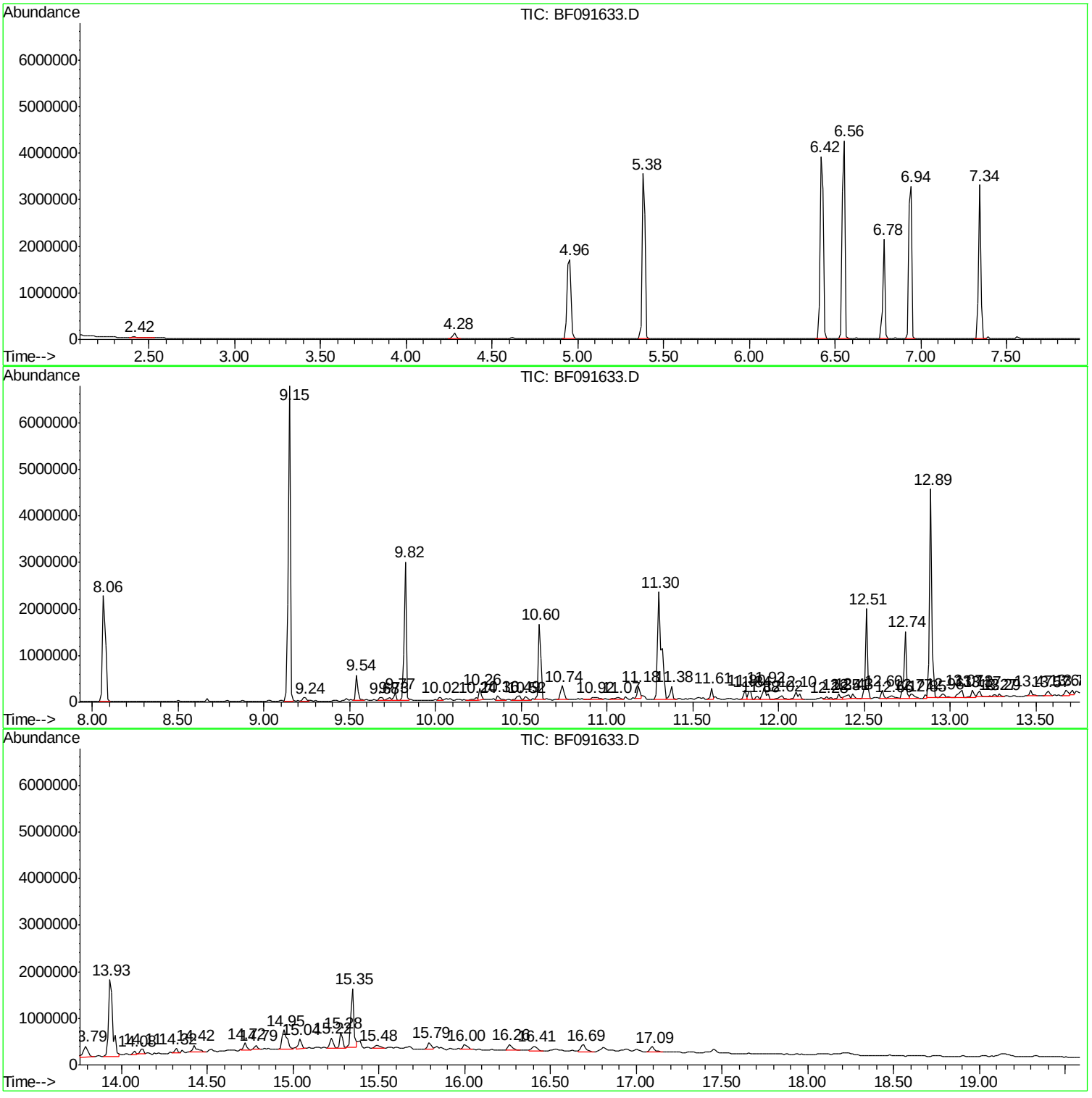
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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 F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

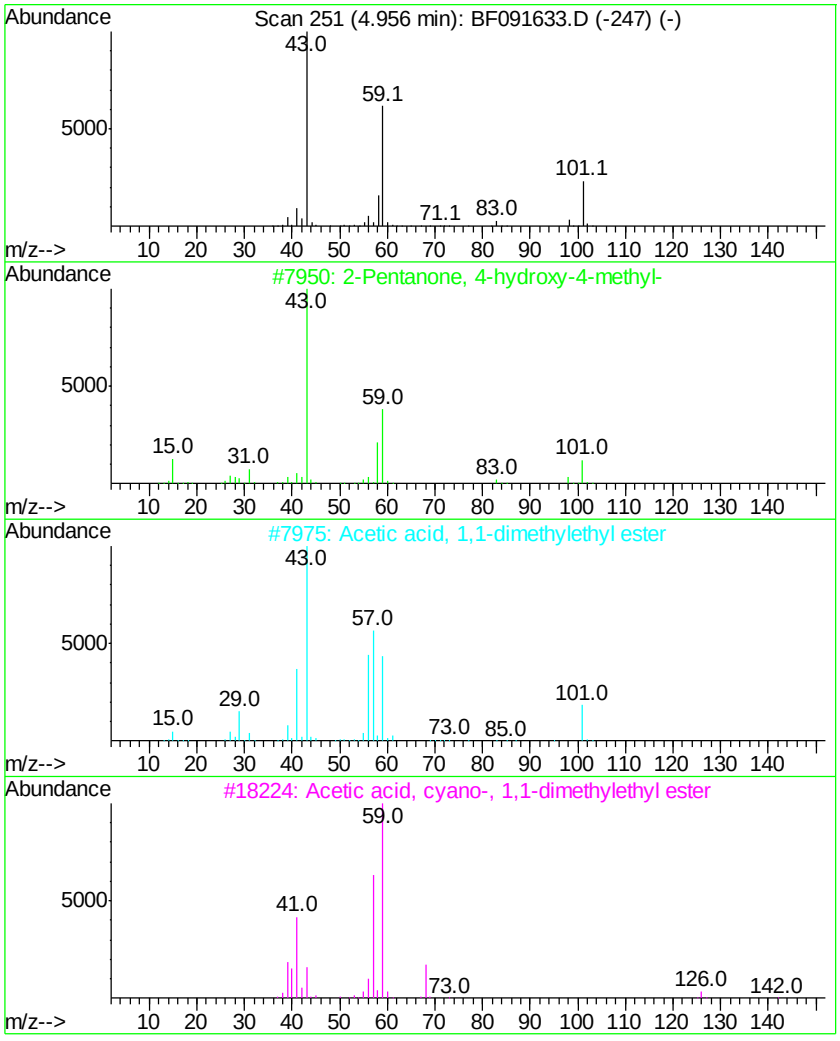
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

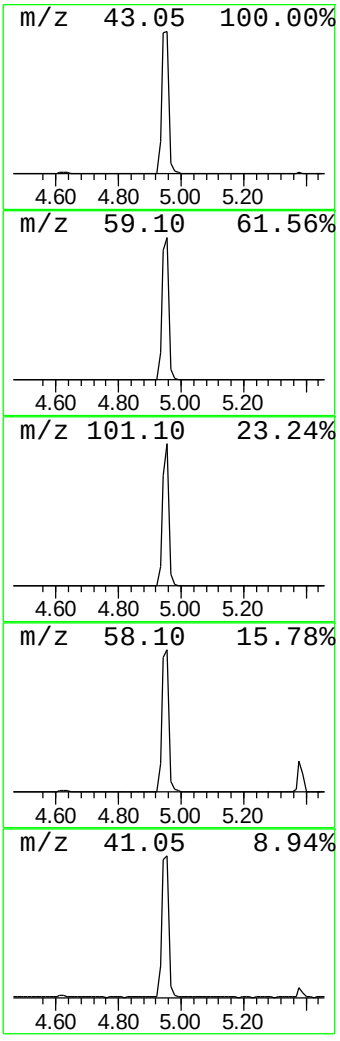
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.96 | 26.95 ng | 2595540 | 1,4-Dichlorobenzene-d4 | 6.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

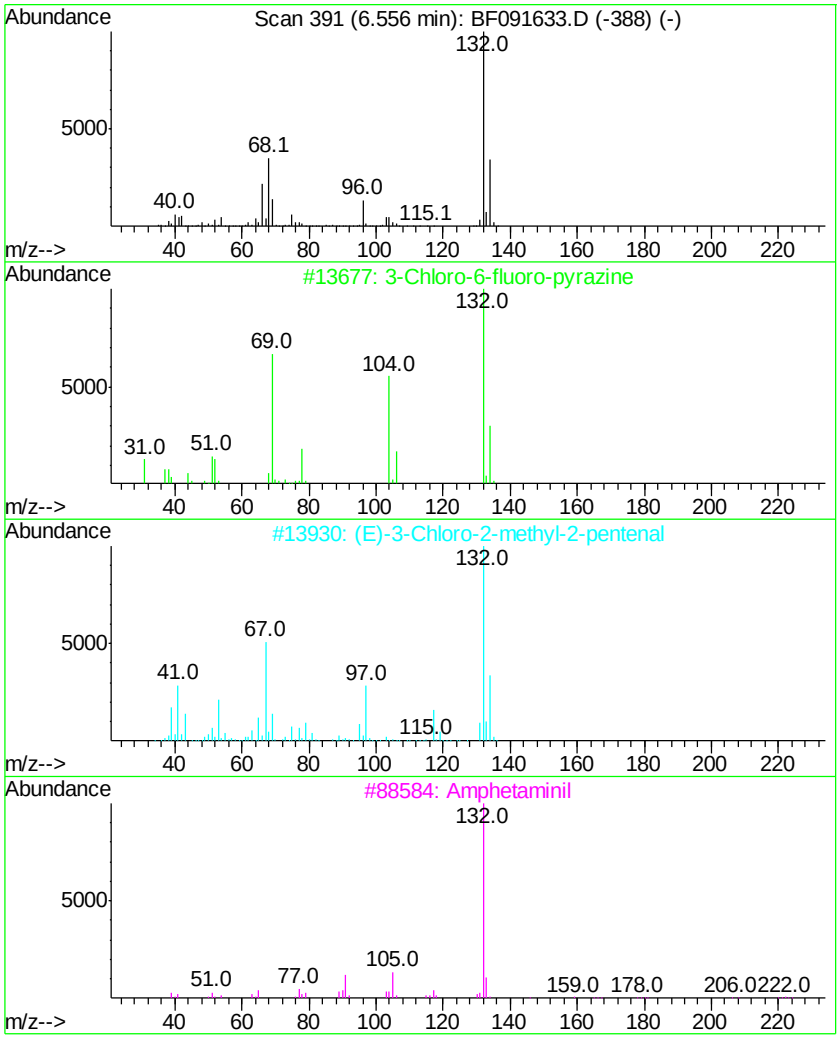
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

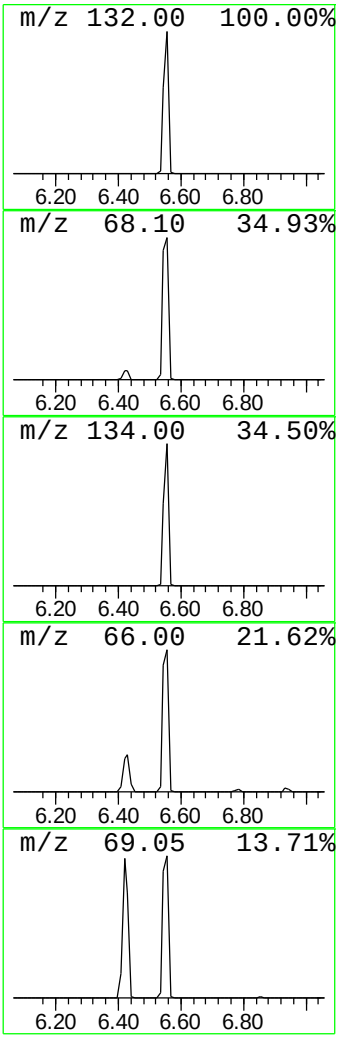
**********

Peak Number 2 unknown6.56 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.56 | 53.79 ng | 5180700 | 1,4-Dichlorobenzene-d4 | 6.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 3 | Amphetaminil | 250 | C17H18N2 | 017590-01-1 | 12 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

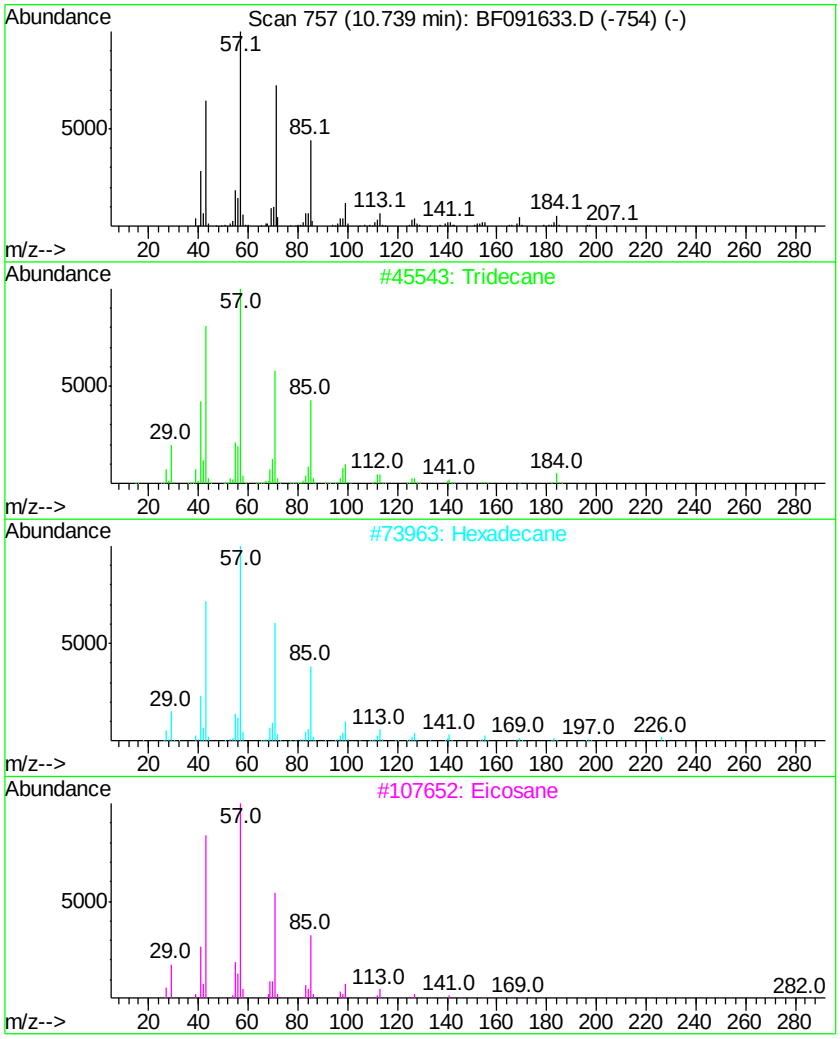
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

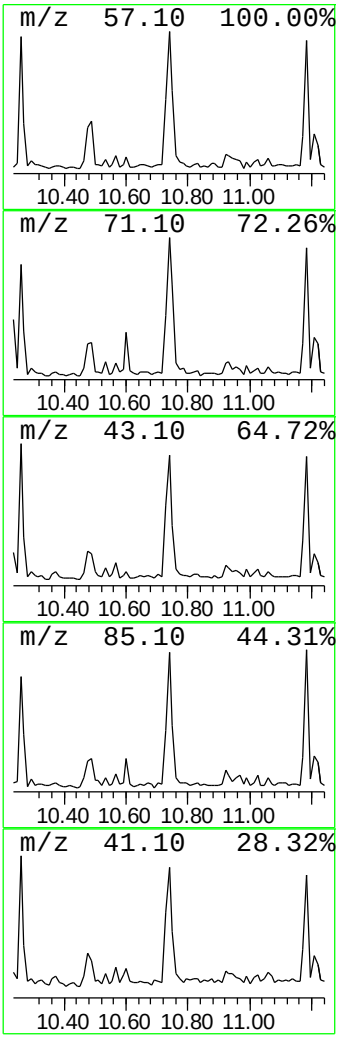
**********

Peak Number 4 Tridecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.74 | 2.53 ng | 429218 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 87 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 87 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

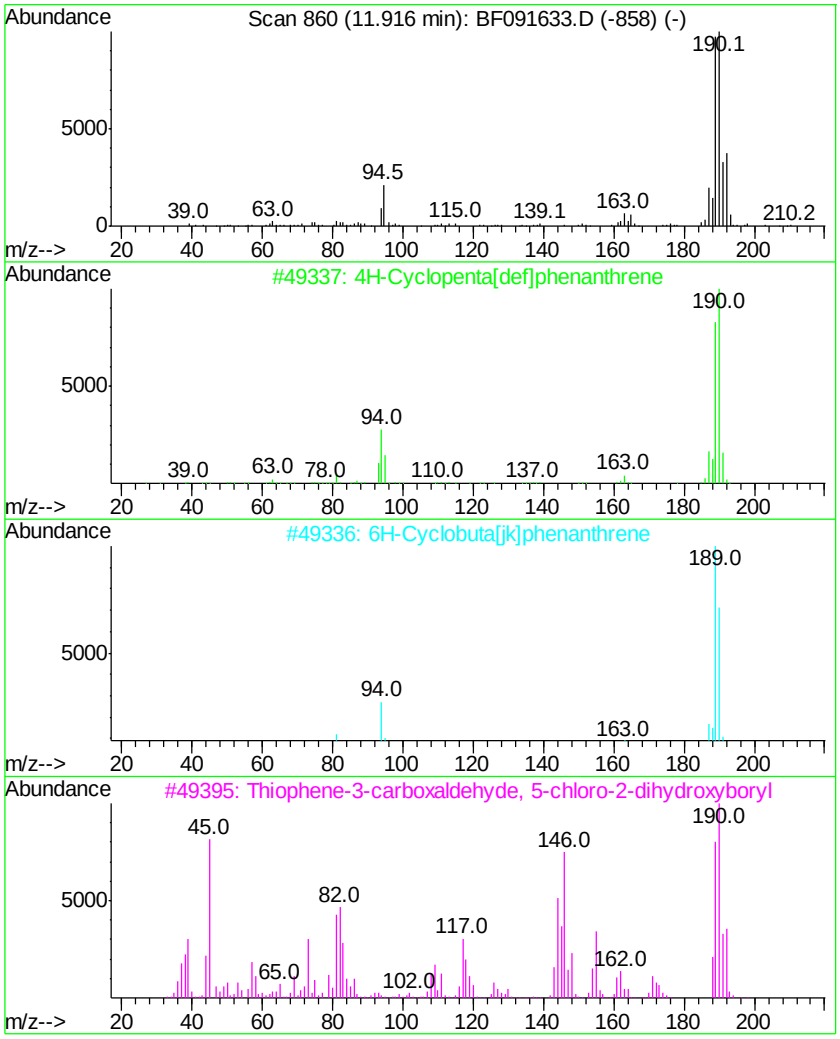
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

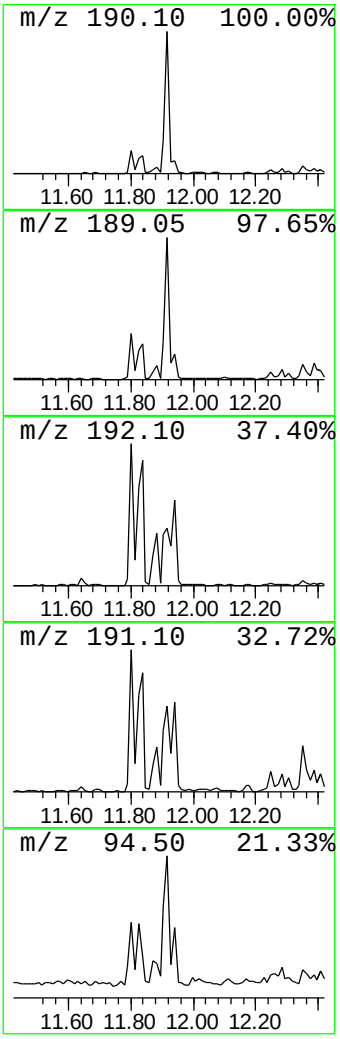
**********

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 2.55 ng | 433849 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 72 |
| 3 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 52 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

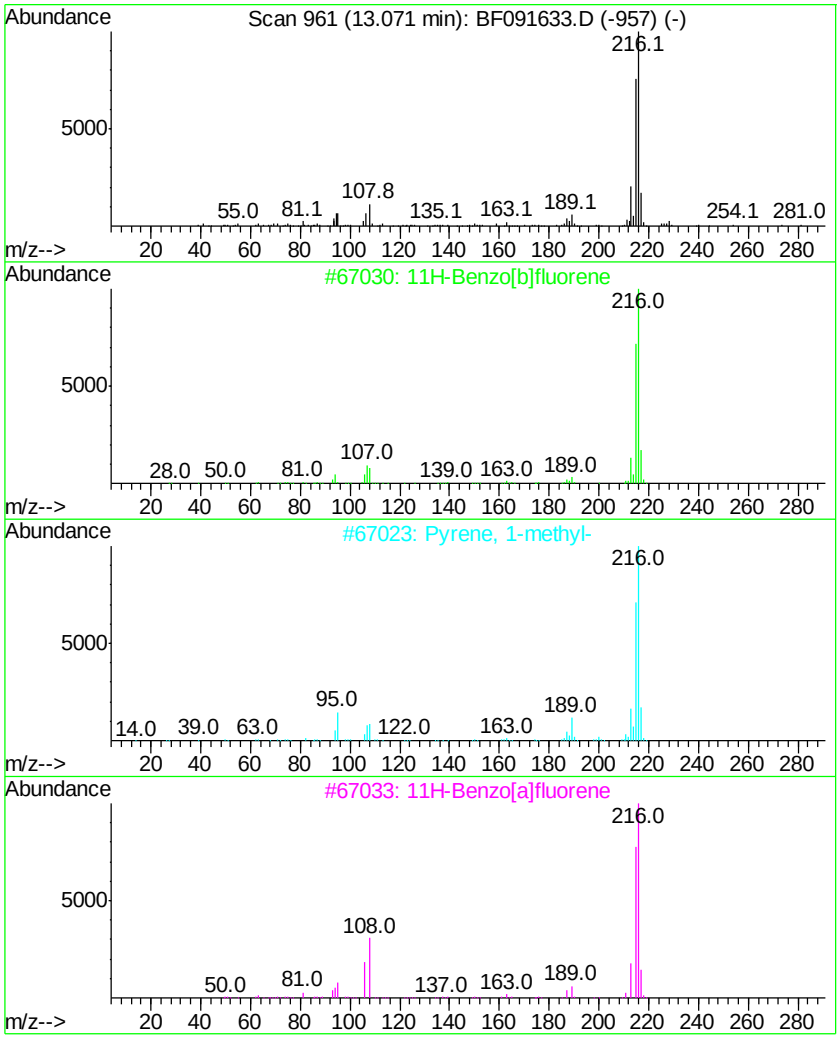
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

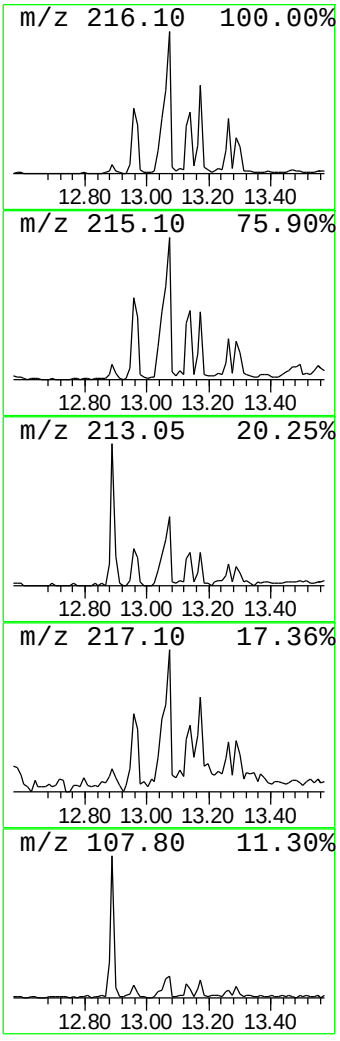
**********

Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.07 | 2.07 ng | 306710 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 94 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

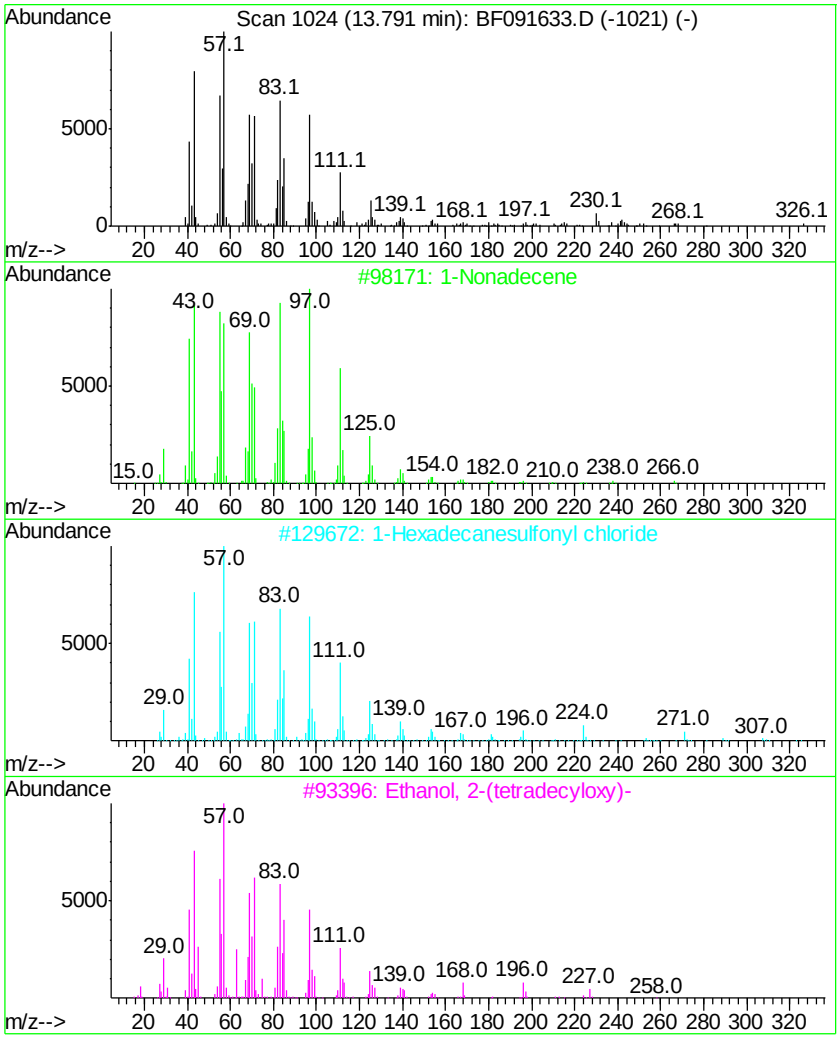
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

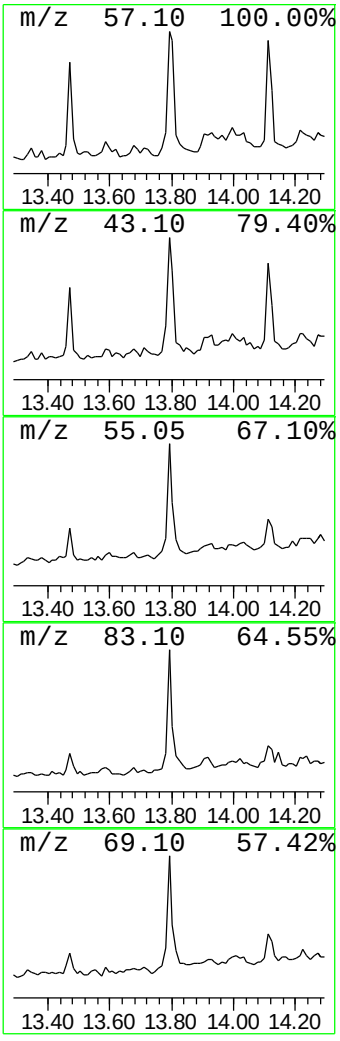
**********

Peak Number 7 1-Nonadecene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.79 | 3.01 ng | 445837 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 94 |
| 2 | 1-Hexadecanesulfonyl chloride | 324 | C16H33ClO2S | 038775-38-1 | 91 |
| 3 | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 91 |
| 4 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 87 |
| 5 | 1-Tricosene | 322 | C23H46 | 018835-32-0 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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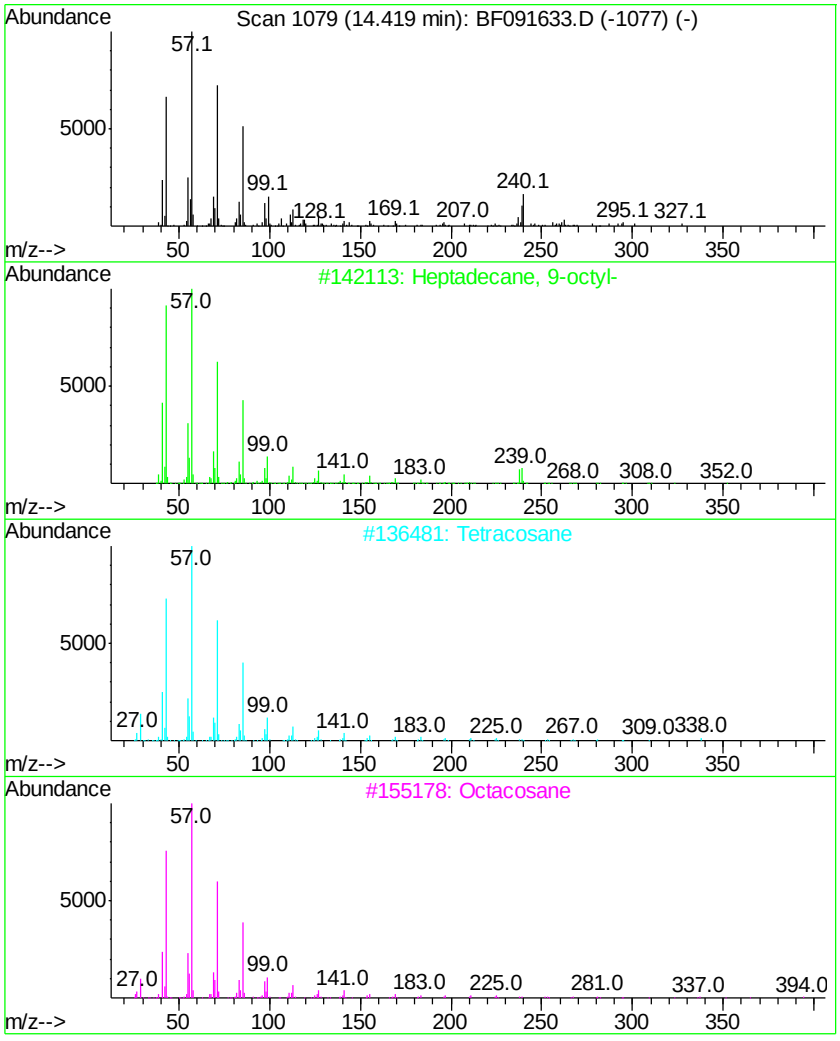
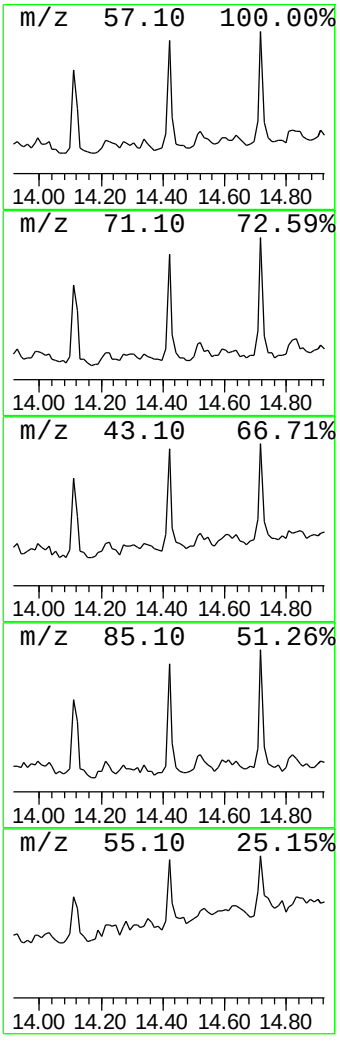
Peak Number 8 Heptadecane, 9-octyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.42 | 2.04 ng | 301455 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 80 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 74 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 74 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 72 |
| 5 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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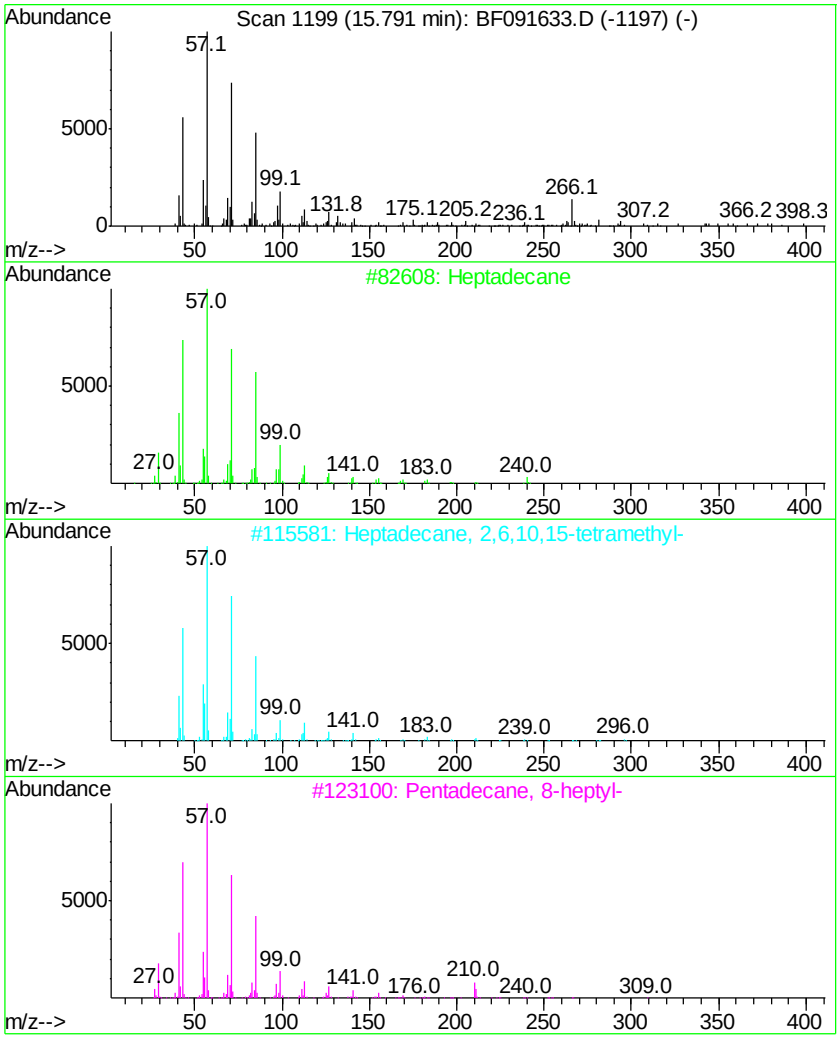
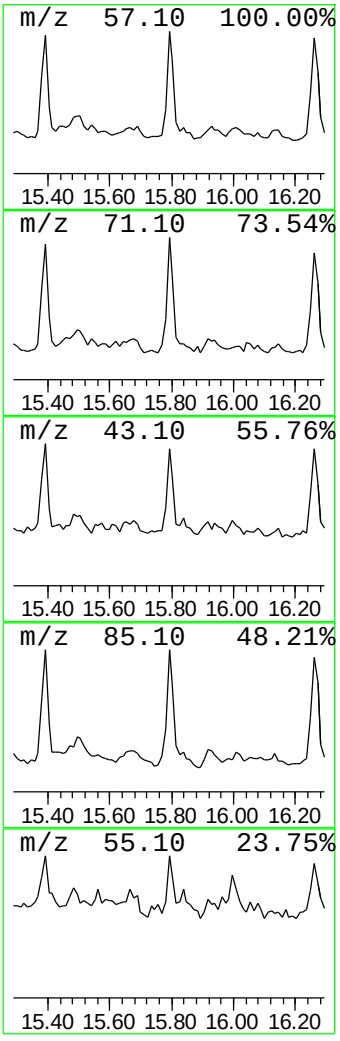
Peak Number 11 Heptadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.79 | 2.56 ng | 210320 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 91 |
| 2 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 87 |
| 3 | Pentadecane, 8-heptyl- | 310 | C22H46 | 071005-15-7 | 83 |
| 4 | Hexacosane | 366 | C26H54 | 000630-01-3 | 83 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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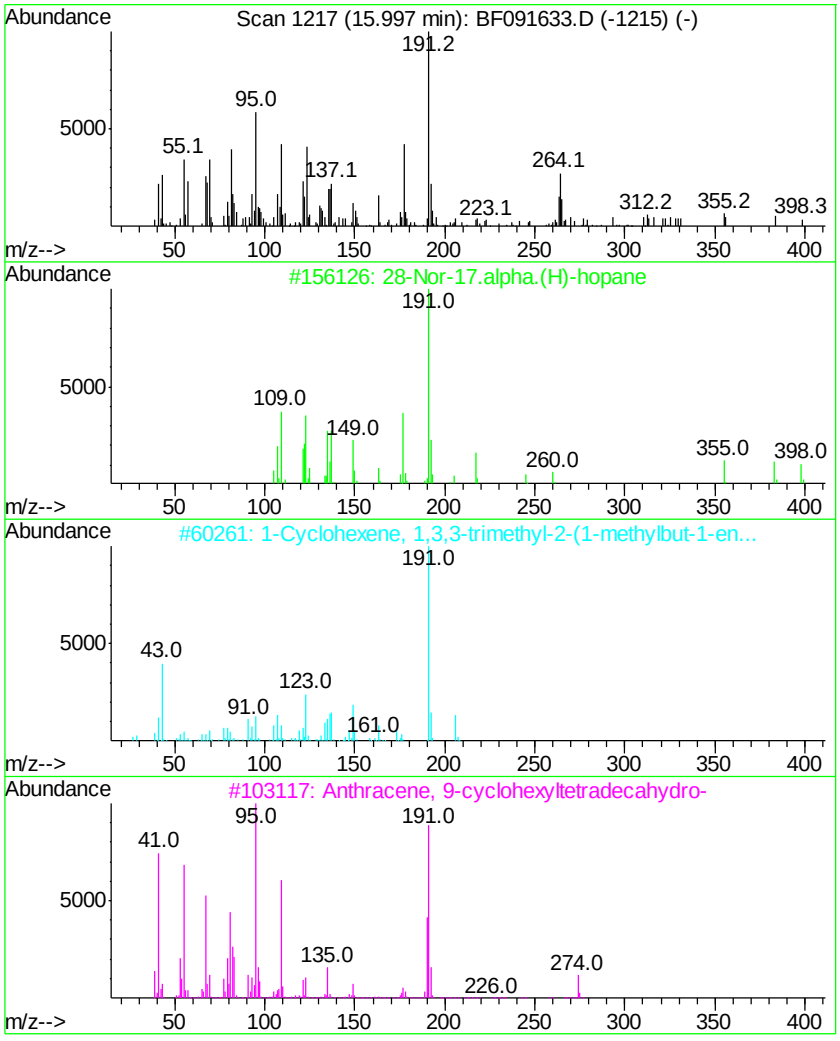
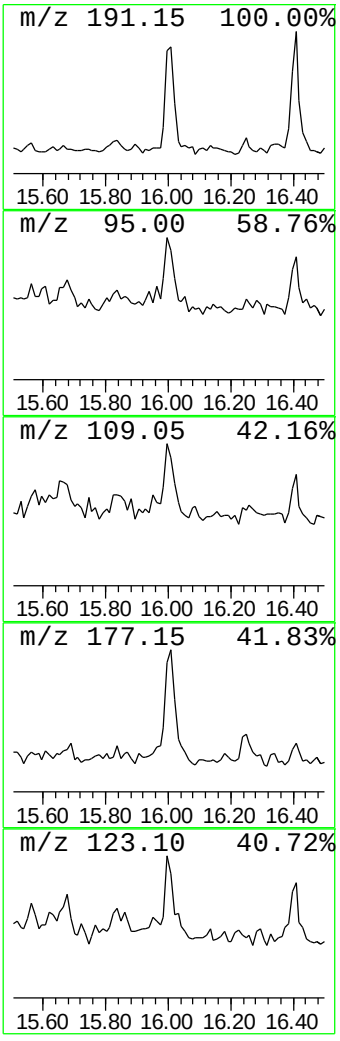
Peak Number 12 28-Nor-17.alpha.(H)-hopane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.00 | 2.00 ng | 164716 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 28-Nor-17.alpha.(H)-hopane | 398 | C29H50 | 053584-60-4 | 58 |
| 2 | 1-Cyclohexene, 1,3,3-trimethyl-2... | 206 | C14H22O | 1000197-08-4 | 47 |
| 3 | Anthracene, 9-cyclohexyltetradec... | 274 | C20H34 | 055255-70-4 | 43 |
| 4 | 1-Penten-3-one, 1-(2,6,6-trimeth... | 206 | C14H22O | 000127-43-5 | 25 |
| 5 | 5-(p-Aminophenyl)-2-thiazolamine | 191 | C9H9N3S | 090349-87-4 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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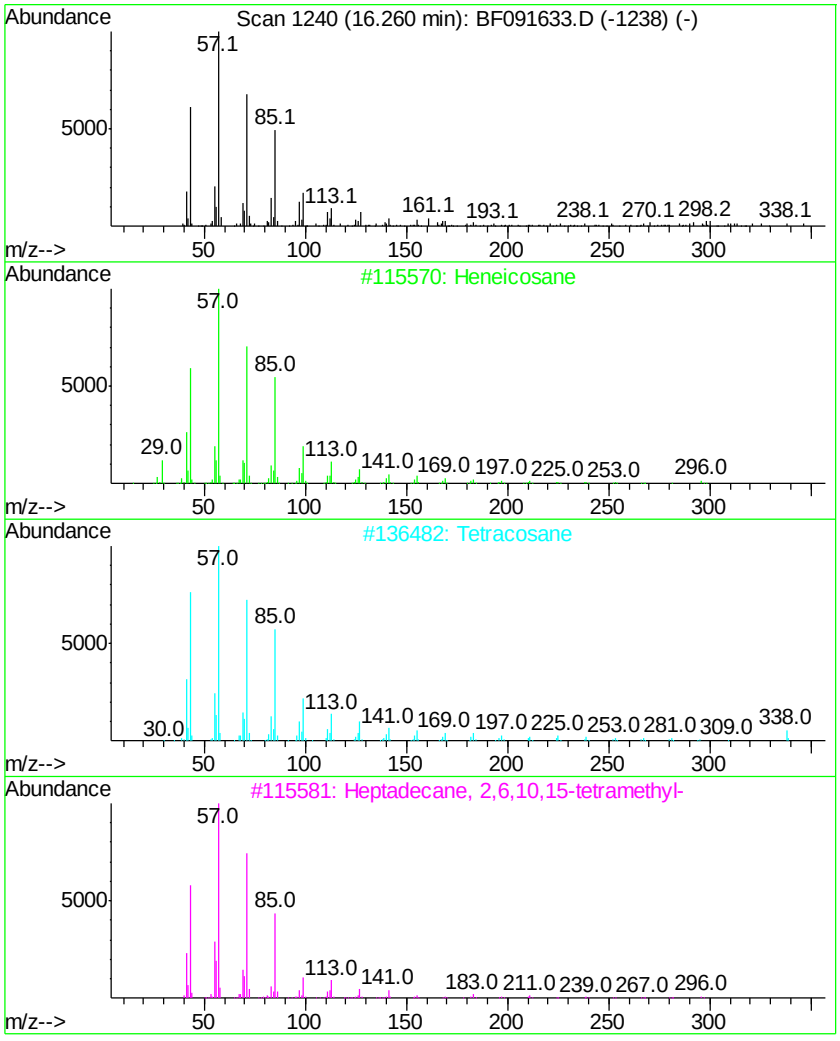
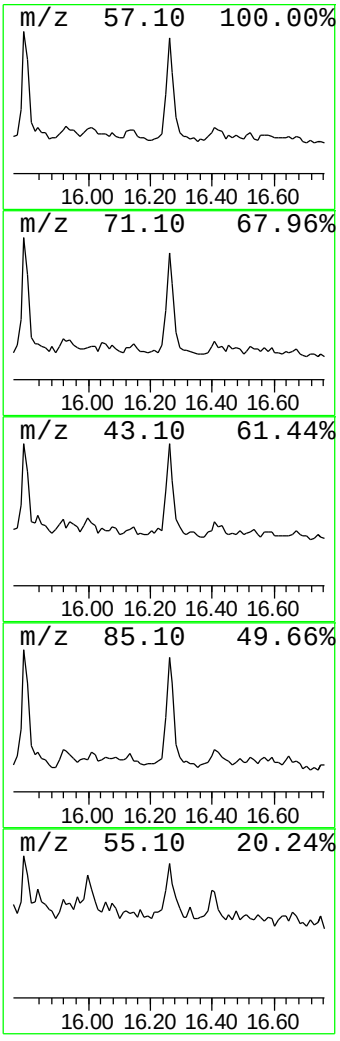
Peak Number 13 Heneicosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.26 | 2.64 ng | 217479 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 95 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 94 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 91 |
| 4 | Tricosane, 2-methyl- | 338 | C24H50 | 001928-30-9 | 91 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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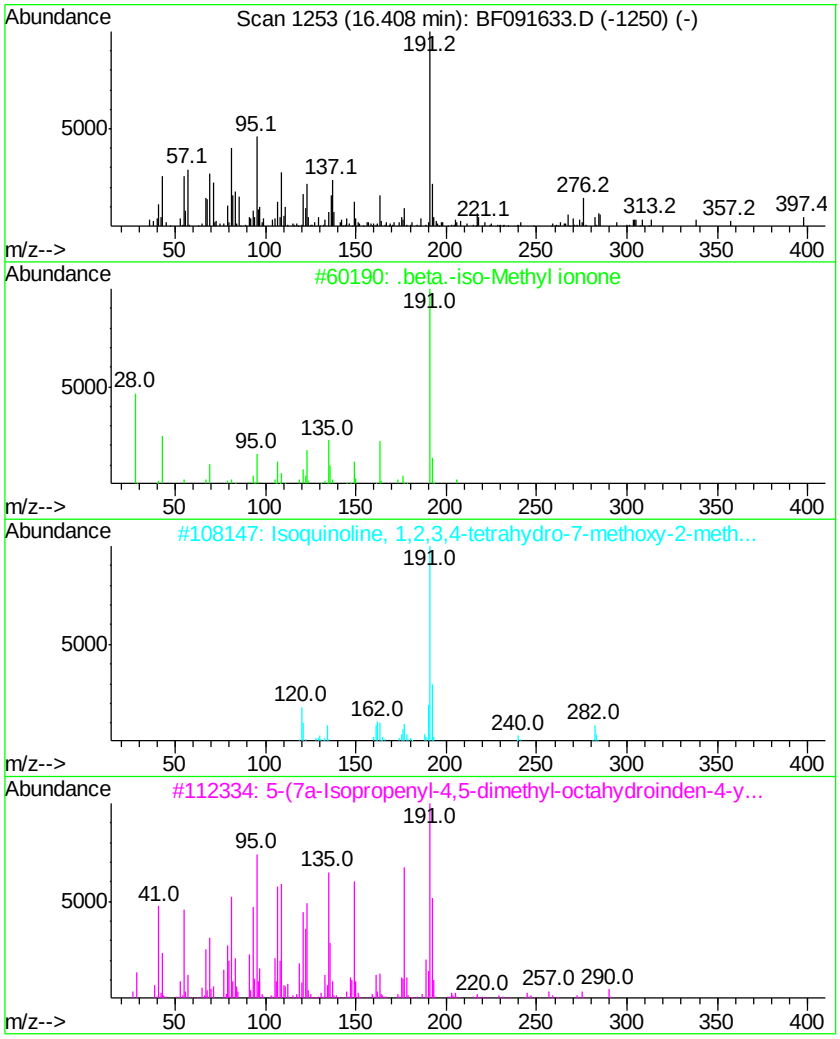
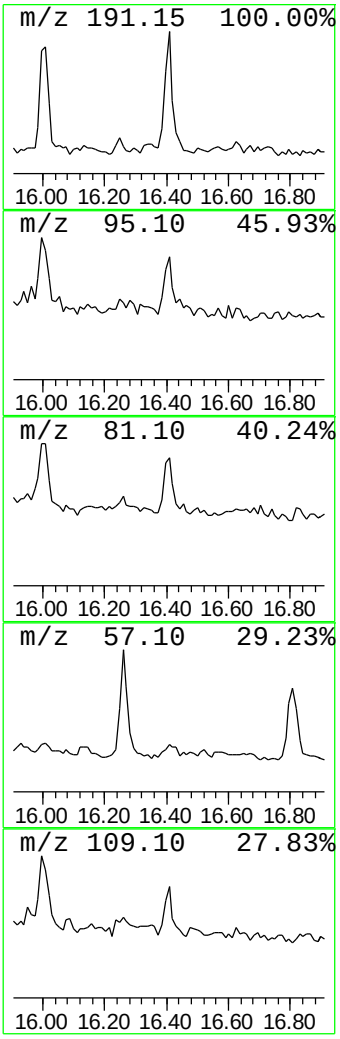
Peak Number 14 unknown16.41 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.41 | 2.56 ng | 210355 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-iso-Methyl ionone | 206 | C14H22O | 1000285-40-2 | 46 |
| 2 | Isoquinoline, 1,2,3,4-tetrahydro... | 283 | C18H21NO2 | 036646-87-4 | 38 |
| 3 | 5-(7a-Isopropenyl-4,5-dimethyl-o... | 290 | C20H34O | 1000193-54-0 | 38 |
| 4 | Silane, 1,3-decadiynyltrimethyl- | 206 | C13H22Si | 084751-17-7 | 35 |
| 5 | Phenol, 2,6-bis(1,1-dimethylethyl)- | 206 | C14H22O | 000128-39-2 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121516\
Data File : BF091633.D
Acq On : 15 Dec 2016 17:28
Operator : UM/SJ
Sample : H6012-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-4-5.5-6.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.96 | 26.9 | ng | 2595540 | 1 | 6.78 | 1926220 | 20.0 |
| unknown6.56 | 6.56 | 53.8 | ng | 5180700 | 1 | 6.78 | 1926220 | 20.0 |
| Tridecane | 10.74 | 2.5 | ng | 429218 | 4 | 11.30 | 3396200 | 20.0 |
| 4H-Cyclopenta[def... | 11.92 | 2.5 | ng | 433849 | 4 | 11.30 | 3396200 | 20.0 |
| 11H-Benzo[b]fluorene | 13.07 | 2.1 | ng | 306710 | 5 | 13.94 | 2960120 | 20.0 |
| 1-Nonadecene | 13.79 | 3.0 | ng | 445837 | 5 | 13.94 | 2960120 | 20.0 |
| Heptadecane, 9-oc... | 14.42 | 2.0 | ng | 301455 | 5 | 13.94 | 2960120 | 20.0 |
| Heptadecane | 15.79 | 2.6 | ng | 210320 | 6 | 15.35 | 1645180 | 20.0 |
| 28-Nor-17.alpha.(... | 16.00 | 2.0 | ng | 164716 | 6 | 15.35 | 1645180 | 20.0 |
| Heneicosane | 16.26 | 2.6 | ng | 217479 | 6 | 15.35 | 1645180 | 20.0 |
| unknown16.41 | 16.41 | 2.6 | ng | 210355 | 6 | 15.35 | 1645180 | 20.0 |