LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

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-BF110316.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 | 1.778 | 6 | 8 | 22 | rBV | 2256903 | 5101876 | 100.00% | 7.369% |
| 2 | 4.864 | 275 | 278 | 287 | rBV | 611325 | 1140476 | 22.35% | 1.647% |
| 3 | 5.299 | 314 | 316 | 319 | rBV | 2989562 | 4393091 | 86.11% | 6.345% |
| 4 | 6.362 | 406 | 409 | 411 | rBV | 3840866 | 4666748 | 91.47% | 6.740% |
| 5 | 6.476 | 416 | 419 | 421 | rBV | 4025505 | 4231302 | 82.94% | 6.111% |
| 6 | 6.705 | 436 | 439 | 441 | rBV | 1120660 | 1080651 | 21.18% | 1.561% |
| 7 | 6.865 | 450 | 453 | 455 | rBV | 2856934 | 3690908 | 72.34% | 5.331% |
| 8 | 7.276 | 486 | 489 | 491 | rBV | 2806238 | 2933048 | 57.49% | 4.236% |
| 9 | 7.402 | 497 | 500 | 506 | rVB | 101830 | 181307 | 3.55% | 0.262% |
| 10 | 7.985 | 549 | 551 | 554 | rBV | 1110253 | 1439404 | 28.21% | 2.079% |
| 11 | 9.070 | 643 | 646 | 649 | rBV | 4557230 | 4361388 | 85.49% | 6.299% |
| 12 | 9.162 | 651 | 654 | 656 | rVB | 88601 | 110290 | 2.16% | 0.159% |
| 13 | 9.470 | 678 | 681 | 683 | rBV | 1733068 | 1516385 | 29.72% | 2.190% |
| 14 | 9.688 | 695 | 700 | 702 | rBV | 338134 | 330604 | 6.48% | 0.477% |
| 15 | 9.745 | 702 | 705 | 707 | rBV | 1703588 | 1610671 | 31.57% | 2.326% |
| 16 | 9.951 | 717 | 723 | 724 | rBV2 | 80539 | 221675 | 4.34% | 0.320% |
| 17 | 10.008 | 726 | 728 | 730 | rVB | 152566 | 135854 | 2.66% | 0.196% |
| 18 | 10.191 | 741 | 744 | 745 | rBV | 751204 | 869295 | 17.04% | 1.256% |
| 19 | 10.236 | 745 | 748 | 751 | rVB3 | 60857 | 136648 | 2.68% | 0.197% |
| 20 | 10.305 | 751 | 754 | 756 | rBV4 | 60802 | 155133 | 3.04% | 0.224% |
| 21 | 10.408 | 760 | 763 | 764 | rBV | 772018 | 860669 | 16.87% | 1.243% |
| 22 | 10.453 | 766 | 767 | 769 | rVB | 132607 | 123747 | 2.43% | 0.179% |
| 23 | 10.488 | 769 | 770 | 771 | rBV | 249712 | 205409 | 4.03% | 0.297% |
| 24 | 10.533 | 771 | 774 | 776 | rBV | 2651871 | 2669963 | 52.33% | 3.856% |
| 25 | 10.568 | 776 | 777 | 780 | rVB3 | 43863 | 61749 | 1.21% | 0.089% |
| 26 | 10.659 | 782 | 785 | 789 | rBV | 2431387 | 3831285 | 75.10% | 5.534% |
| 27 | 10.854 | 799 | 802 | 804 | rBV2 | 280583 | 489307 | 9.59% | 0.707% |
| 28 | 10.888 | 804 | 805 | 806 | rVB | 267992 | 183843 | 3.60% | 0.266% |
| 29 | 10.911 | 806 | 807 | 809 | rBV | 162742 | 257527 | 5.05% | 0.372% |
| 30 | 10.945 | 809 | 810 | 811 | rVV | 231031 | 167953 | 3.29% | 0.243% |
| 31 | 10.979 | 811 | 813 | 815 | rVV3 | 196914 | 268905 | 5.27% | 0.388% |
| 32 | 11.105 | 822 | 824 | 825 | rBV | 2371864 | 2050875 | 40.20% | 2.962% |
| 33 | 11.139 | 825 | 827 | 829 | rVV | 1127306 | 1272041 | 24.93% | 1.837% |
| 34 | 11.219 | 833 | 834 | 838 | rVV3 | 987131 | 1723267 | 33.78% | 2.489% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

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-BF110316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.299 | 838 | 841 | 844 | rVV3 | 202195 | 499778 | 9.80% | 0.722% |
| 36 | 11.379 | 846 | 848 | 849 | rVV | 138055 | 146740 | 2.88% | 0.212% |
| 37 | 11.414 | 849 | 851 | 852 | rVB2 | 169540 | 157297 | 3.08% | 0.227% |
| 38 | 11.459 | 852 | 855 | 856 | rBV2 | 170103 | 239362 | 4.69% | 0.346% |
| 39 | 11.528 | 859 | 861 | 864 | rVB | 989704 | 925264 | 18.14% | 1.336% |
| 40 | 11.688 | 873 | 875 | 877 | rBV2 | 70946 | 131307 | 2.57% | 0.190% |
| 41 | 11.791 | 883 | 884 | 886 | rVB2 | 84086 | 76256 | 1.49% | 0.110% |
| 42 | 11.836 | 886 | 888 | 892 | rVB5 | 112344 | 235200 | 4.61% | 0.340% |
| 43 | 11.939 | 895 | 897 | 899 | rVB | 263849 | 267903 | 5.25% | 0.387% |
| 44 | 12.328 | 929 | 931 | 932 | rBV | 74406 | 97275 | 1.91% | 0.140% |
| 45 | 12.431 | 938 | 940 | 942 | rBV | 816765 | 712907 | 13.97% | 1.030% |
| 46 | 12.659 | 957 | 960 | 961 | rBV | 718242 | 751579 | 14.73% | 1.086% |
| 47 | 12.694 | 961 | 963 | 968 | rVB | 524312 | 933177 | 18.29% | 1.348% |
| 48 | 12.808 | 971 | 973 | 976 | rVB | 3359452 | 3665582 | 71.85% | 5.294% |
| 49 | 13.059 | 990 | 995 | 997 | rBV | 414626 | 746686 | 14.64% | 1.078% |
| 50 | 13.185 | 1004 | 1006 | 1007 | rBV | 74193 | 90736 | 1.78% | 0.131% |
| 51 | 13.254 | 1009 | 1012 | 1014 | rVV | 357394 | 496861 | 9.74% | 0.718% |
| 52 | 13.494 | 1031 | 1033 | 1036 | rBV2 | 76347 | 114661 | 2.25% | 0.166% |
| 53 | 13.551 | 1036 | 1038 | 1040 | rVV | 144477 | 227476 | 4.46% | 0.329% |
| 54 | 13.608 | 1040 | 1043 | 1050 | rVV7 | 149592 | 771493 | 15.12% | 1.114% |
| 55 | 13.711 | 1050 | 1052 | 1057 | rVB3 | 274898 | 439550 | 8.62% | 0.635% |
| 56 | 13.860 | 1062 | 1065 | 1069 | rBV2 | 1349623 | 1963280 | 38.48% | 2.836% |
| 57 | 14.340 | 1105 | 1107 | 1114 | rBV3 | 174970 | 300677 | 5.89% | 0.434% |
| 58 | 14.637 | 1131 | 1133 | 1136 | rVB | 91275 | 125575 | 2.46% | 0.181% |
| 59 | 14.854 | 1150 | 1152 | 1157 | rBV | 266043 | 557663 | 10.93% | 0.805% |
| 60 | 14.945 | 1157 | 1160 | 1163 | rVB3 | 92896 | 221697 | 4.35% | 0.320% |
| 61 | 15.128 | 1174 | 1176 | 1179 | rVB | 167066 | 225460 | 4.42% | 0.326% |
| 62 | 15.185 | 1179 | 1181 | 1184 | rVB | 212861 | 263949 | 5.17% | 0.381% |
| 63 | 15.243 | 1184 | 1186 | 1188 | rBV | 724205 | 934175 | 18.31% | 1.349% |
| 64 | 15.665 | 1221 | 1223 | 1226 | rBV | 78675 | 124662 | 2.44% | 0.180% |
| 65 | 16.557 | 1299 | 1301 | 1305 | rVB2 | 87965 | 158043 | 3.10% | 0.228% |
| 66 | 16.946 | 1333 | 1335 | 1340 | rVB | 77783 | 161724 | 3.17% | 0.234% |

Sum of corrected areas: 69237289

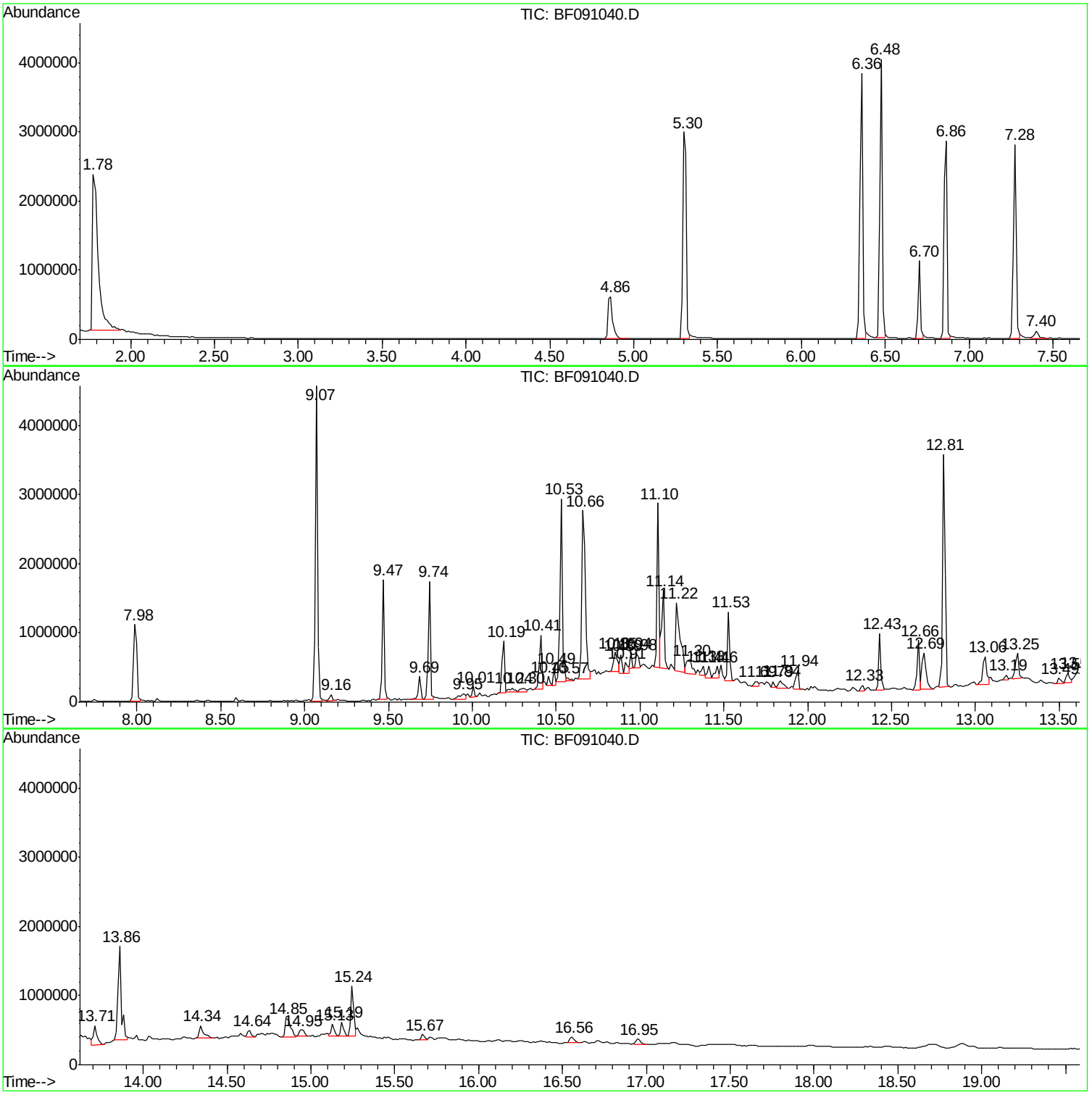
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

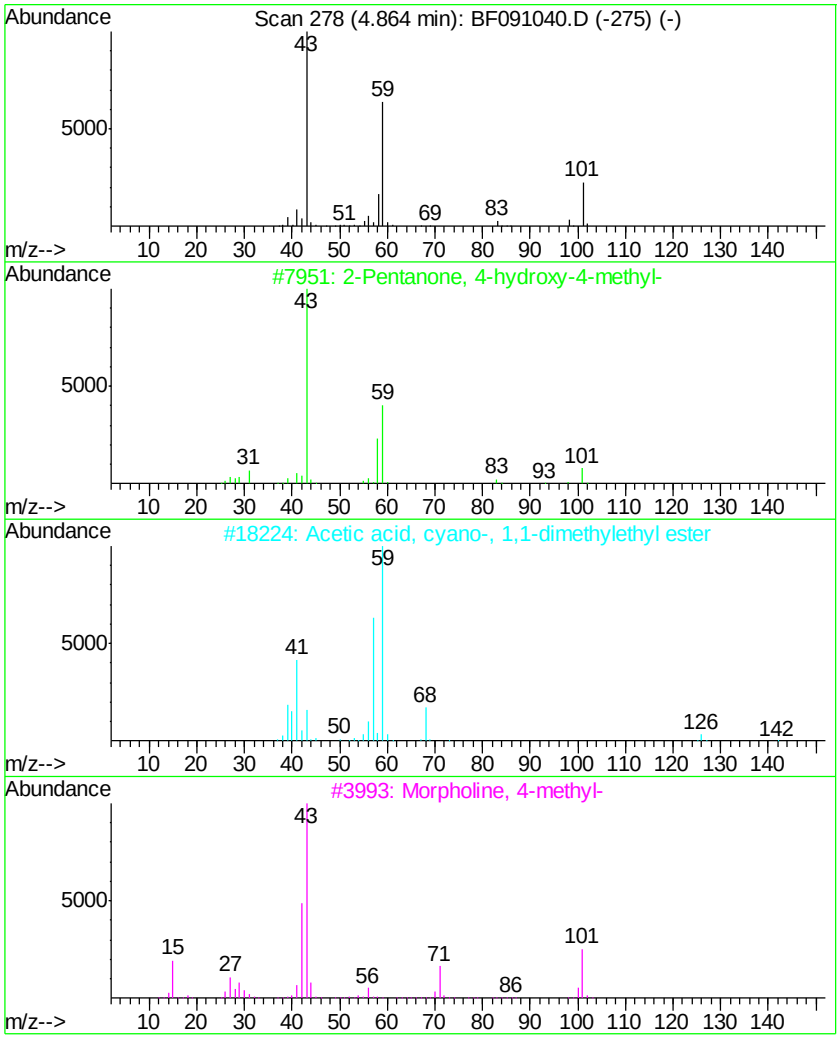
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

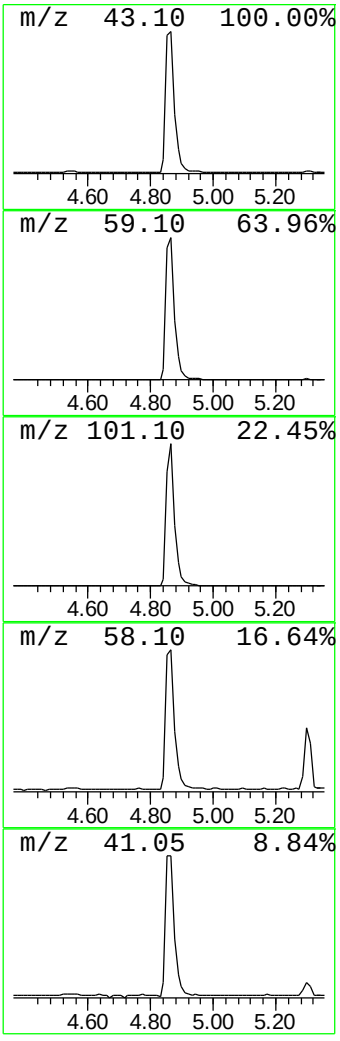
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.86 | 21.11 ng | 1140480 | 1,4-Dichlorobenzene-d4 | 6.70 |

| 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, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

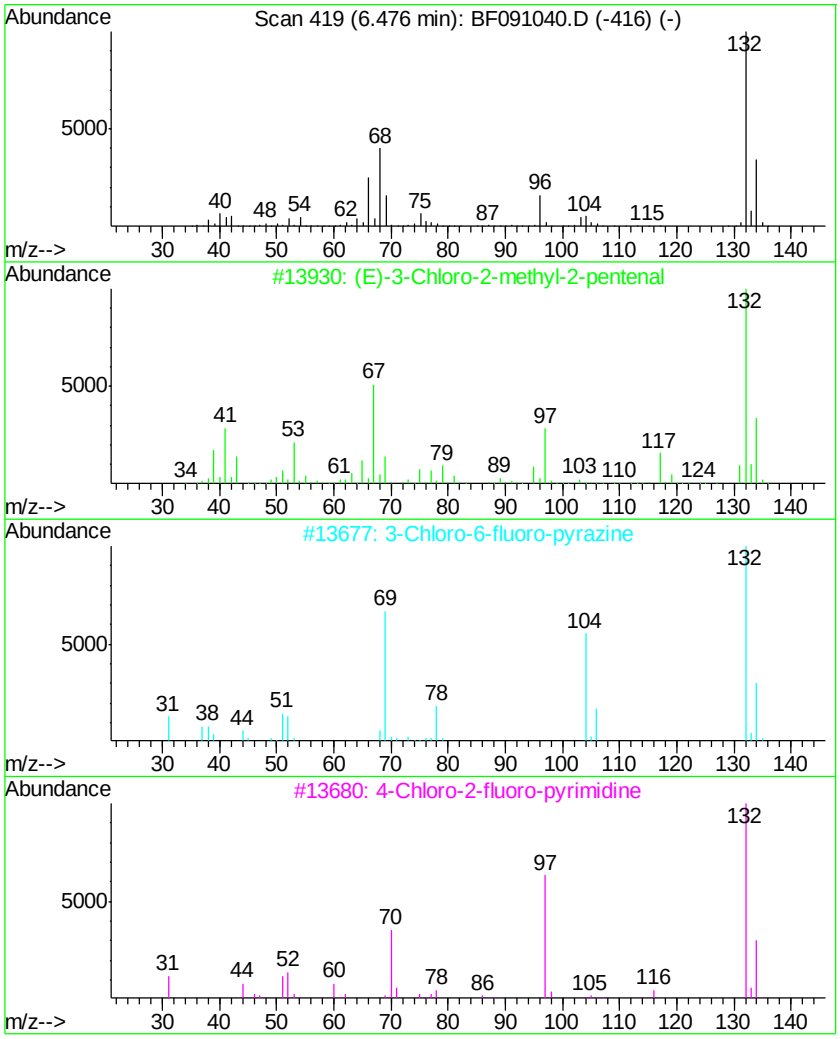
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

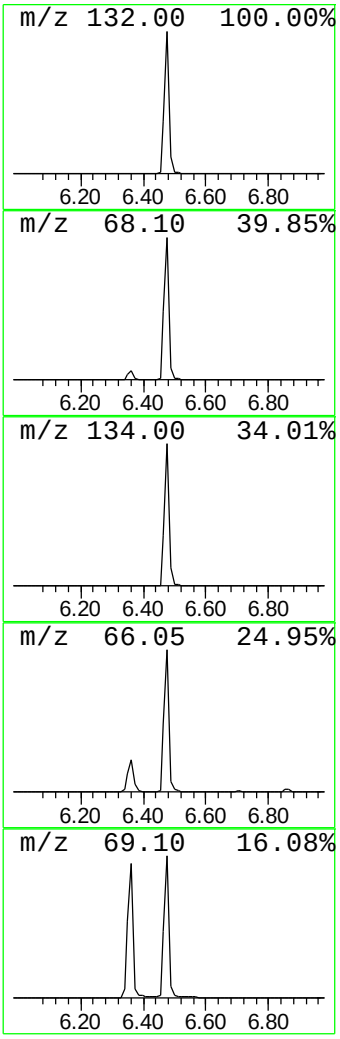
**********

Peak Number 3 unknown6.48 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.48 | 78.31 ng | 4231300 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 3 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

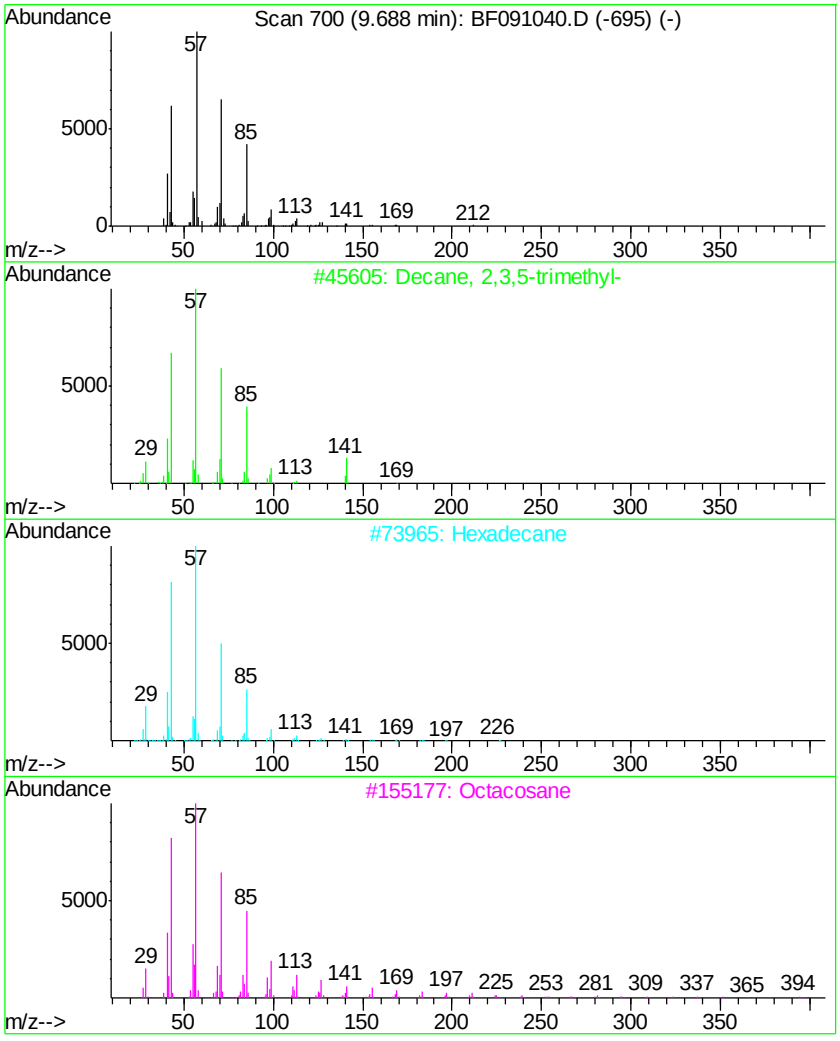
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

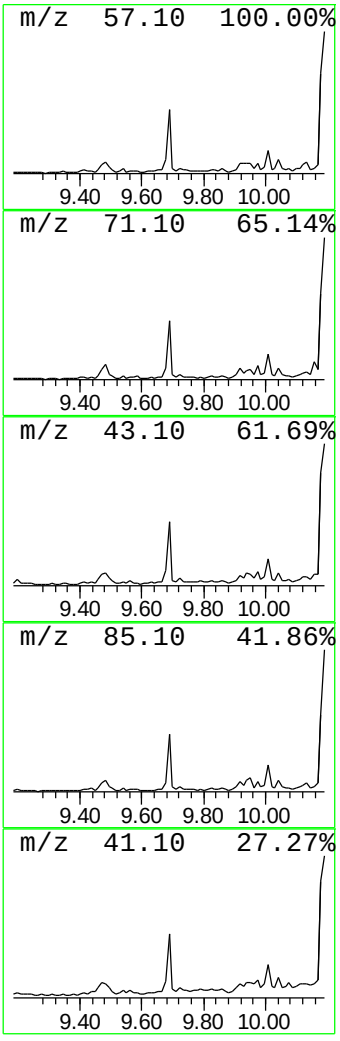
**********

Peak Number 5 Decane, 2,3,5-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.69 | 4.11 ng | 330604 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 90 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 78 |
| 4 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 72 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

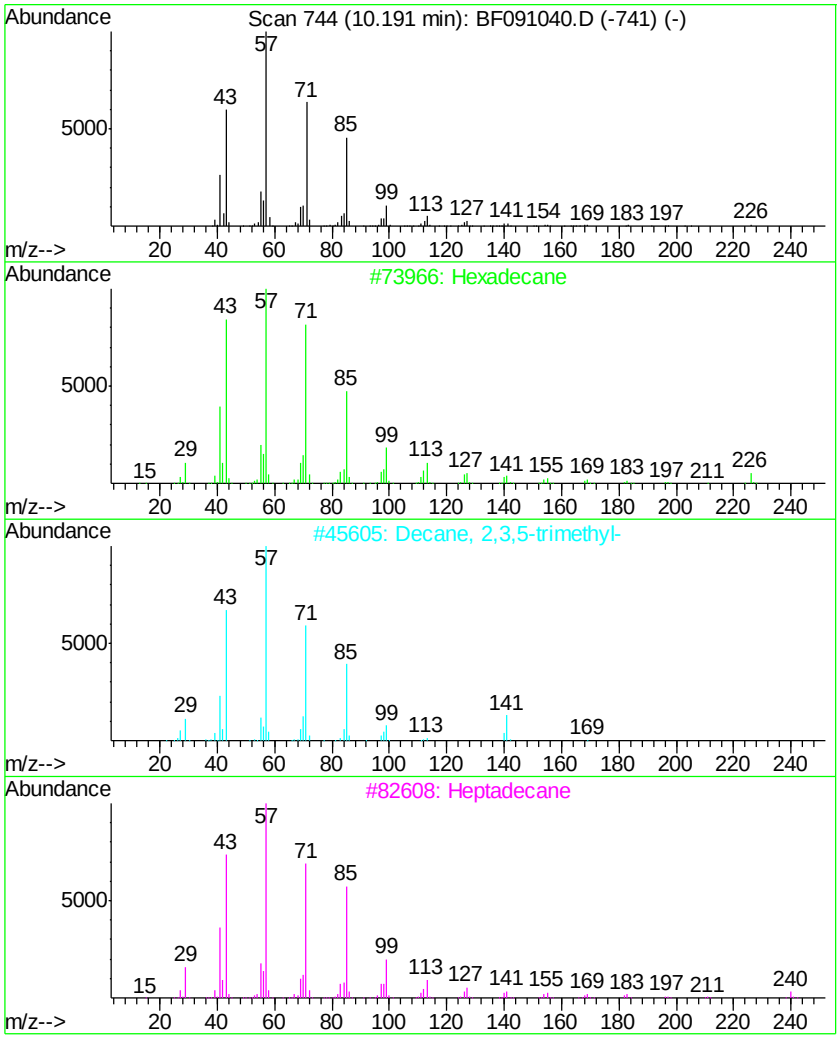
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

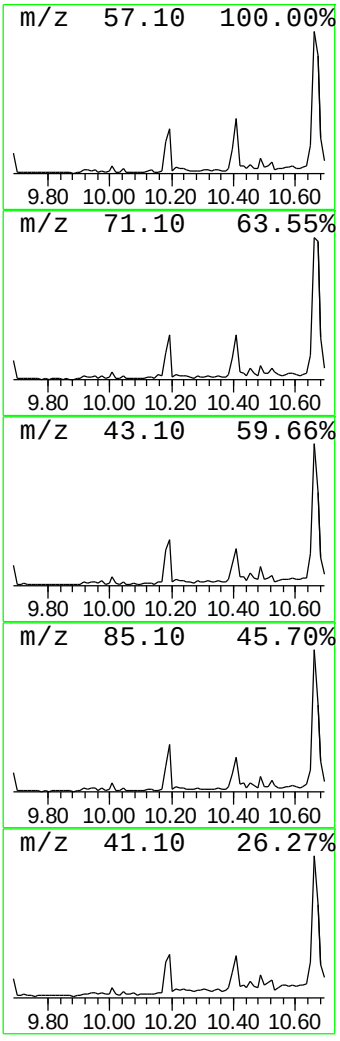
**********

Peak Number 6 Hexadecane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.19 | 10.79 ng | 869295 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 94 |
| 2 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 90 |
| 3 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

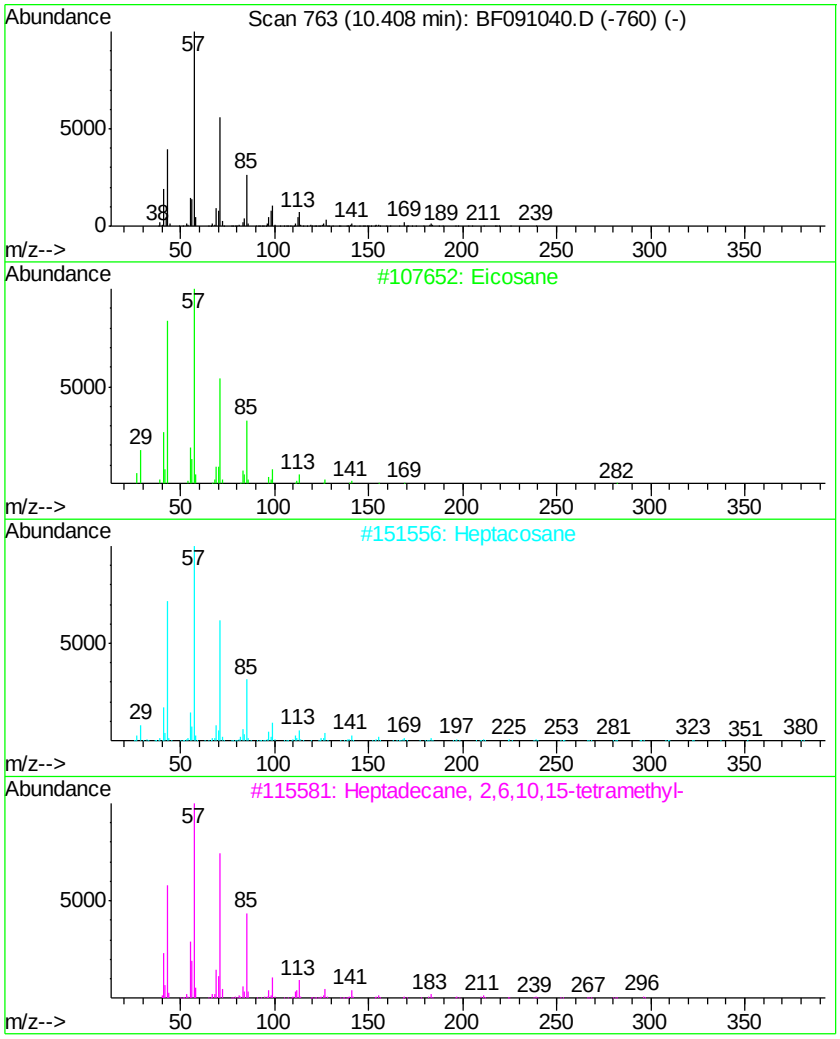
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

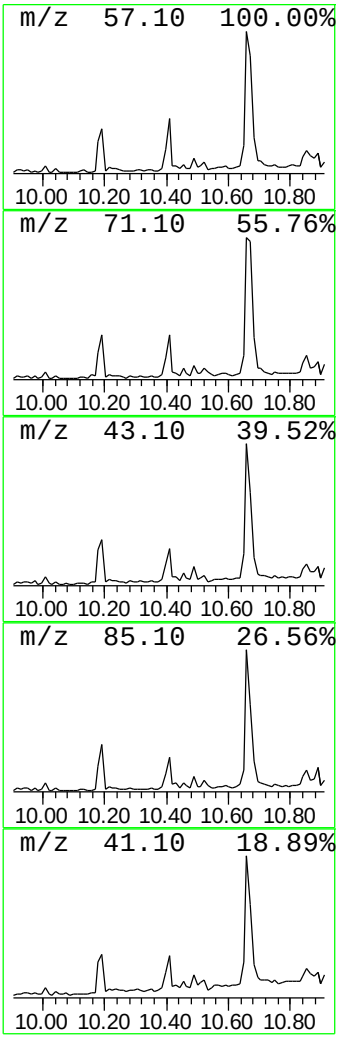
**********

Peak Number 7 Eicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.41 | 10.69 ng | 860669 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 90 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 80 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 72 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

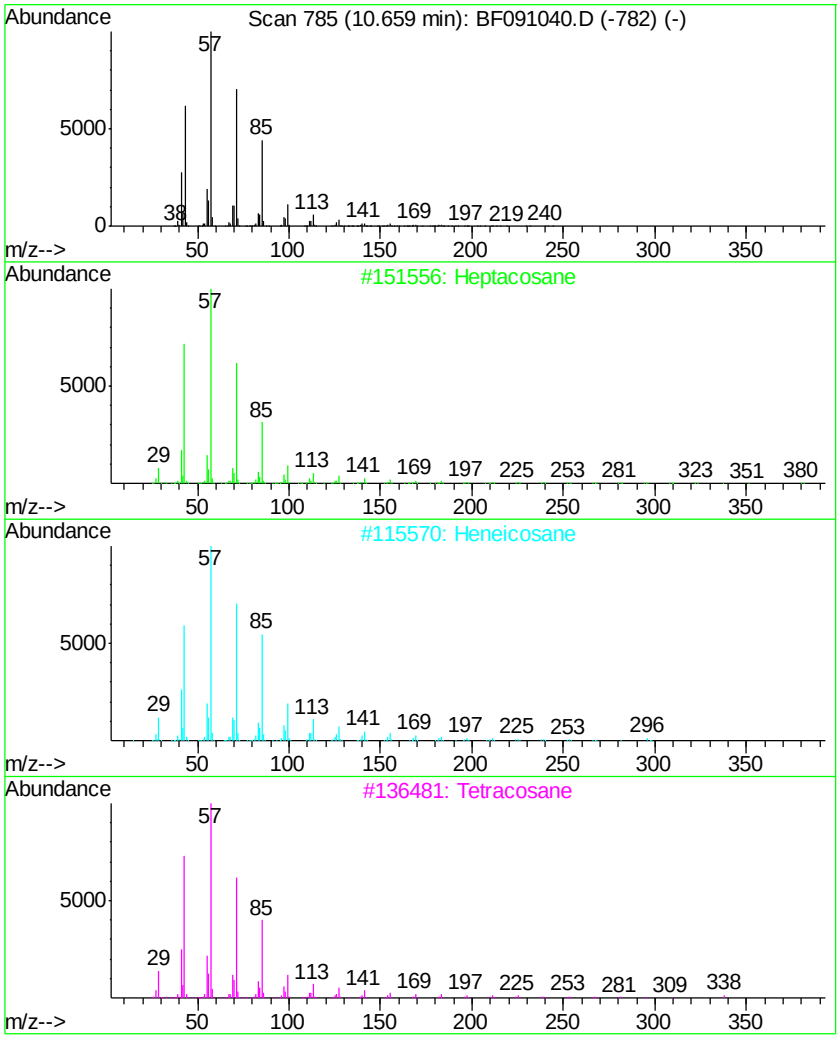
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

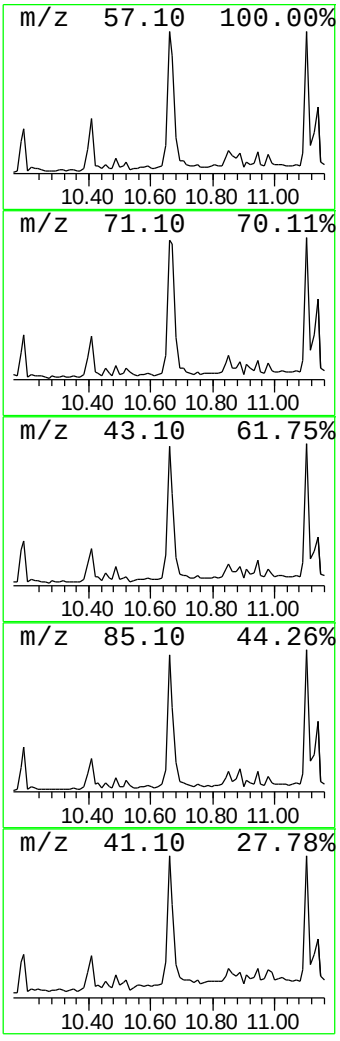
**********

Peak Number 8 Heptacosane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 44.47 ng | 3831290 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 91 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 90 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

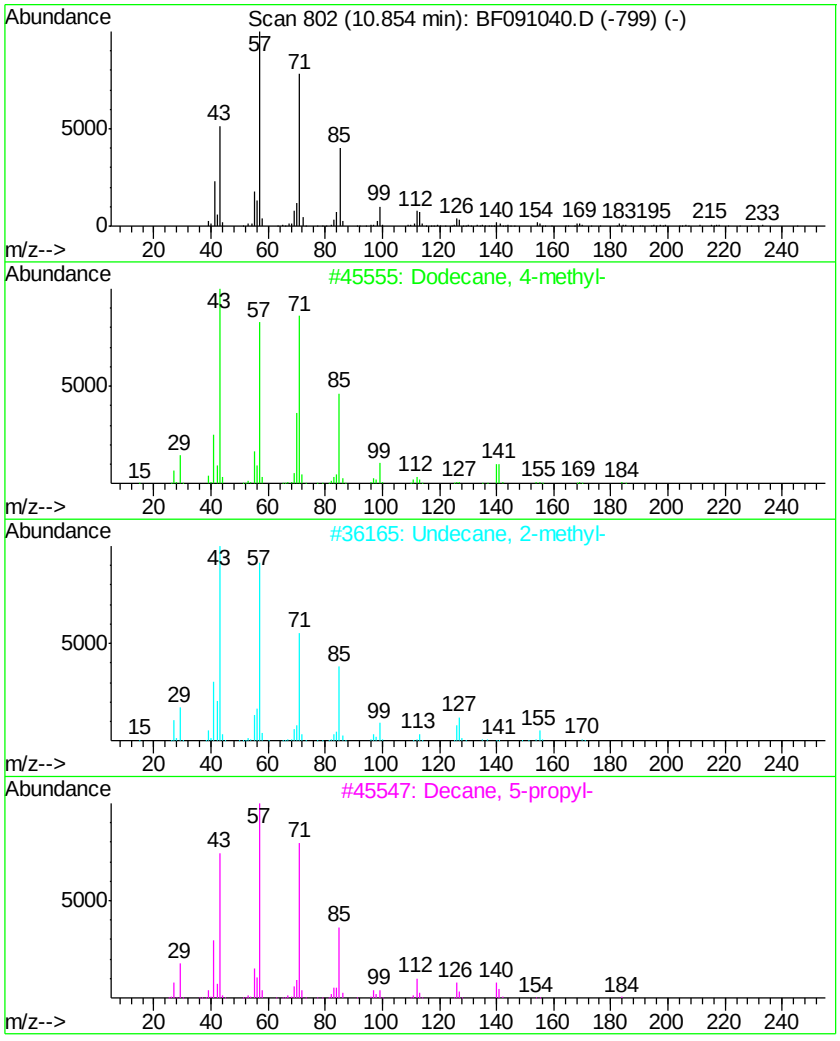
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

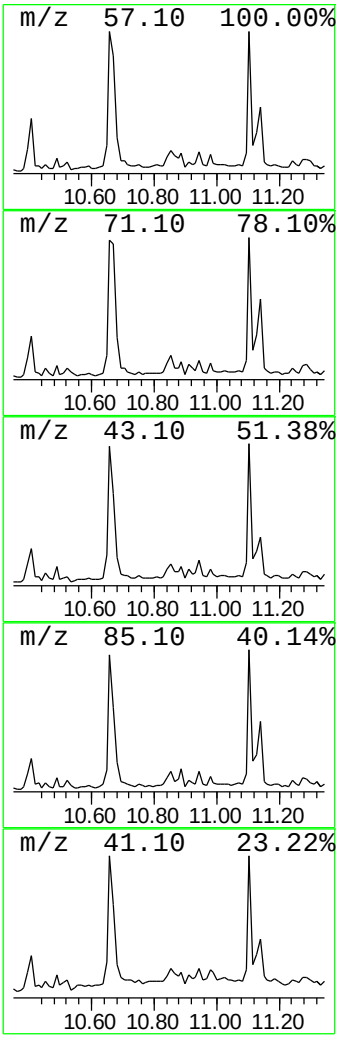
**********

Peak Number 9 Dodecane, 4-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 5.68 ng | 489307 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 87 |
| 2 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 86 |
| 3 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 83 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 83 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 78 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

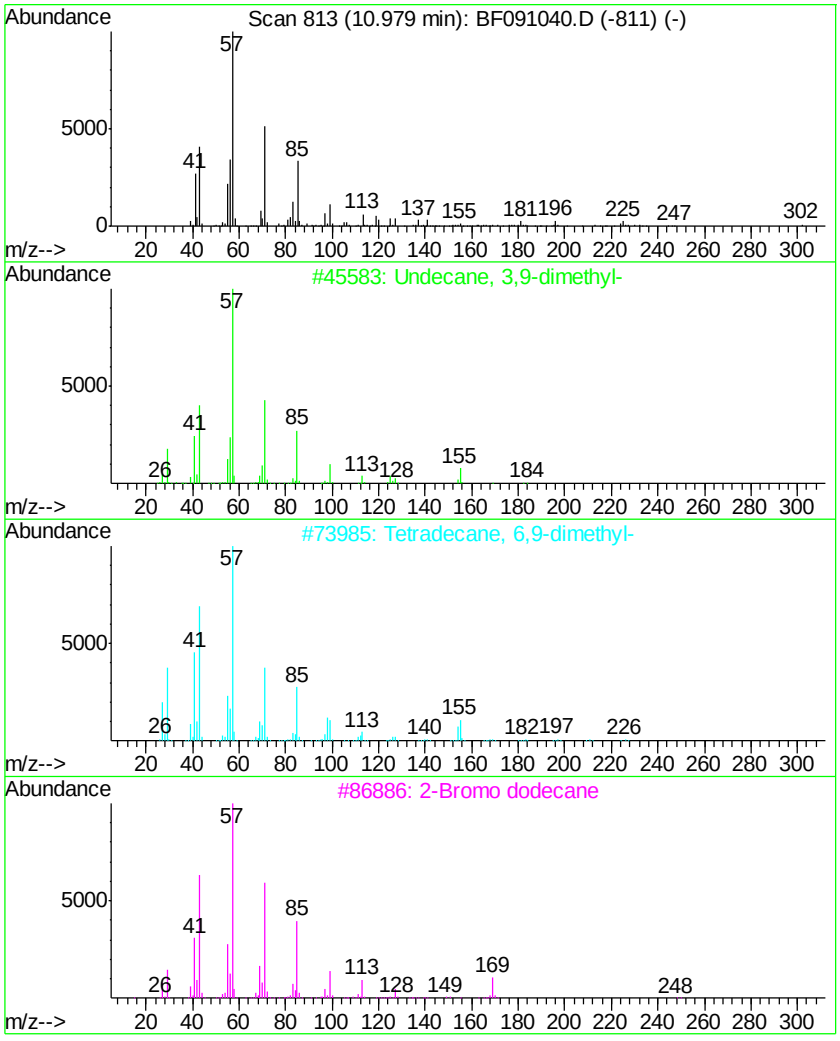
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

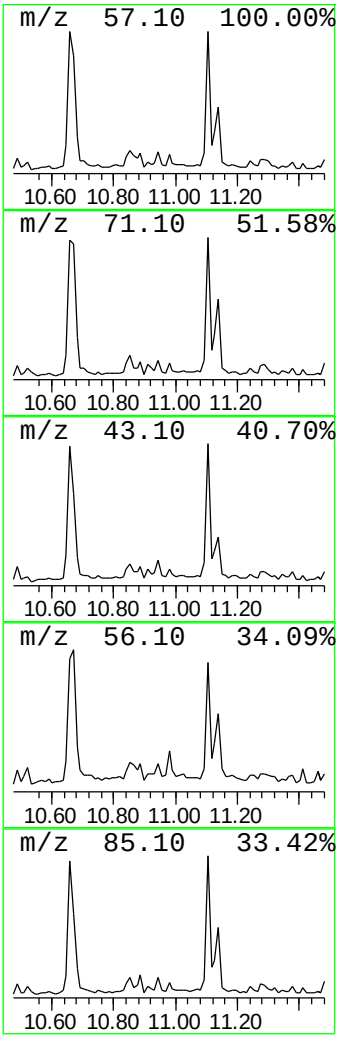
**********

Peak Number 10 Undecane, 3,9-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.98 | 3.12 ng | 268905 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 3,9-dimethyl- | 184 | C13H28 | 017301-31-4 | 78 |
| 2 | Tetradecane, 6,9-dimethyl- | 226 | C16H34 | 055045-13-1 | 72 |
| 3 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 64 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 59 |
| 5 | Decane | 142 | C10H22 | 000124-18-5 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

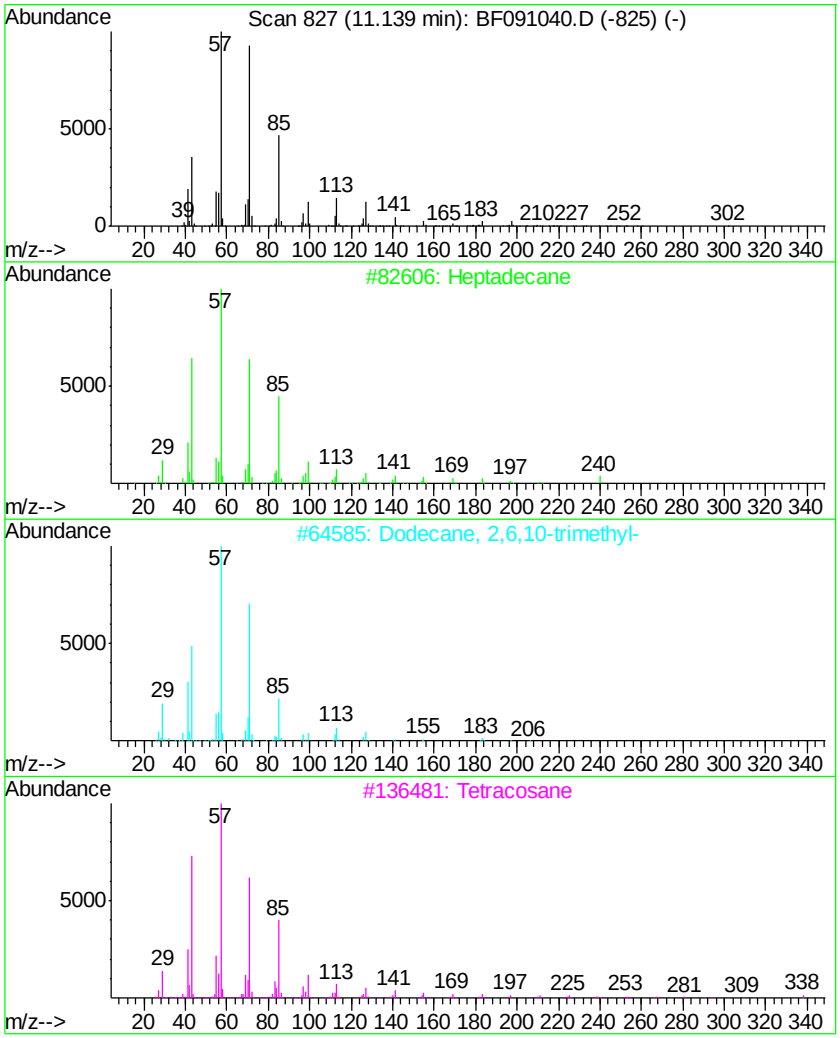
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

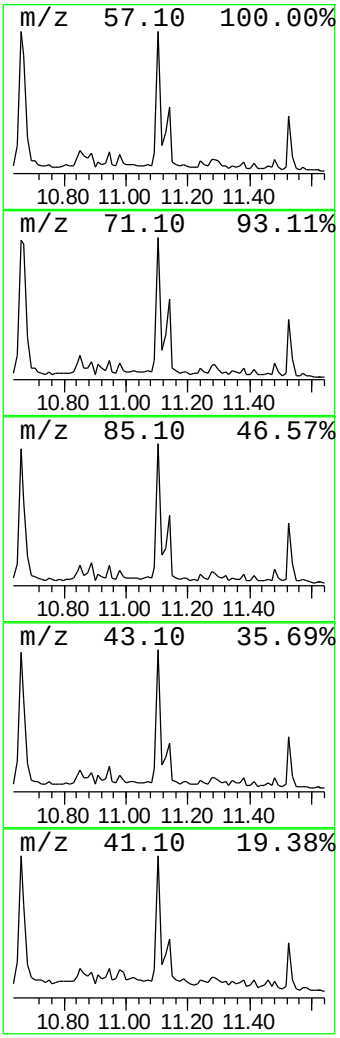
**********

Peak Number 12 Heptadecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.14 | 14.76 ng | 1272040 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 86 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 64 |
| 3 | Tetracosane | 338 | C24H50 | 000646-31-1 | 58 |
| 4 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 58 |
| 5 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 58 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

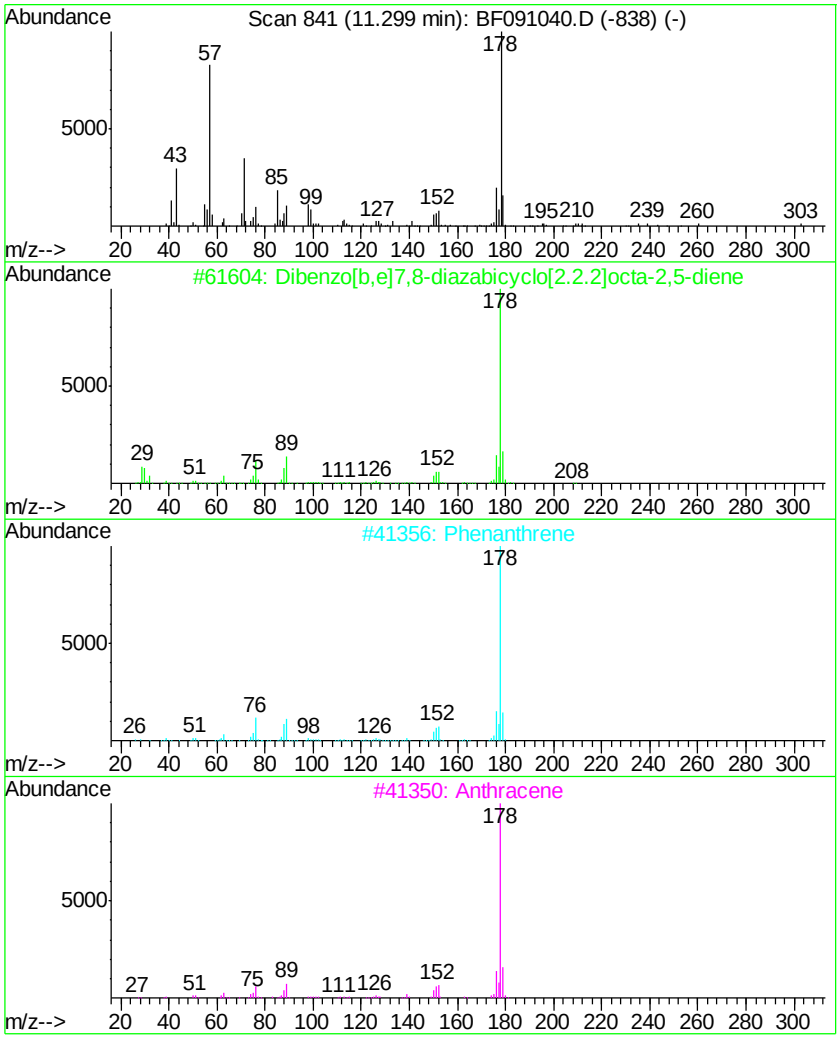
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

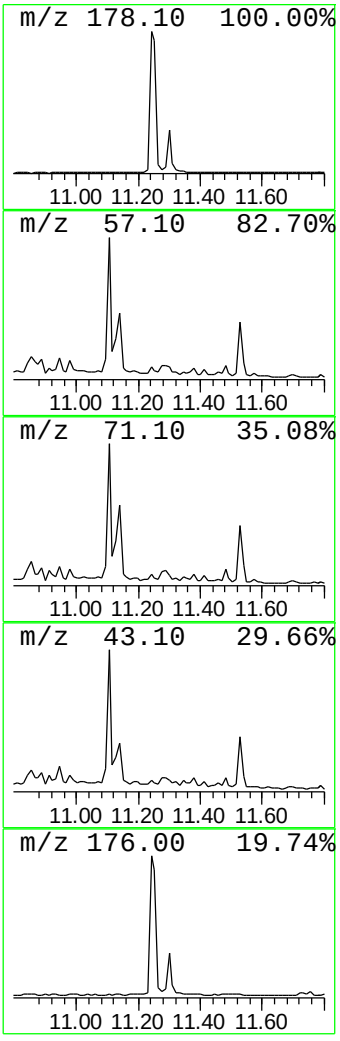
**********

Peak Number 13 Dibenzo[b,e]7,8-diazabicycl... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.30 | 5.80 ng | 499778 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzo[b,e]7,8-diazabicyclo[2.2... | 208 | C14H12N2 | 006705-66-4 | 90 |
| 2 | Phenanthrene | 178 | C14H10 | 000085-01-8 | 90 |
| 3 | Anthracene | 178 | C14H10 | 000120-12-7 | 70 |
| 4 | 9H-Fluorene, 9-methylene- | 178 | C14H10 | 004425-82-5 | 60 |
| 5 | Diphenylethyne | 178 | C14H10 | 000501-65-5 | 55 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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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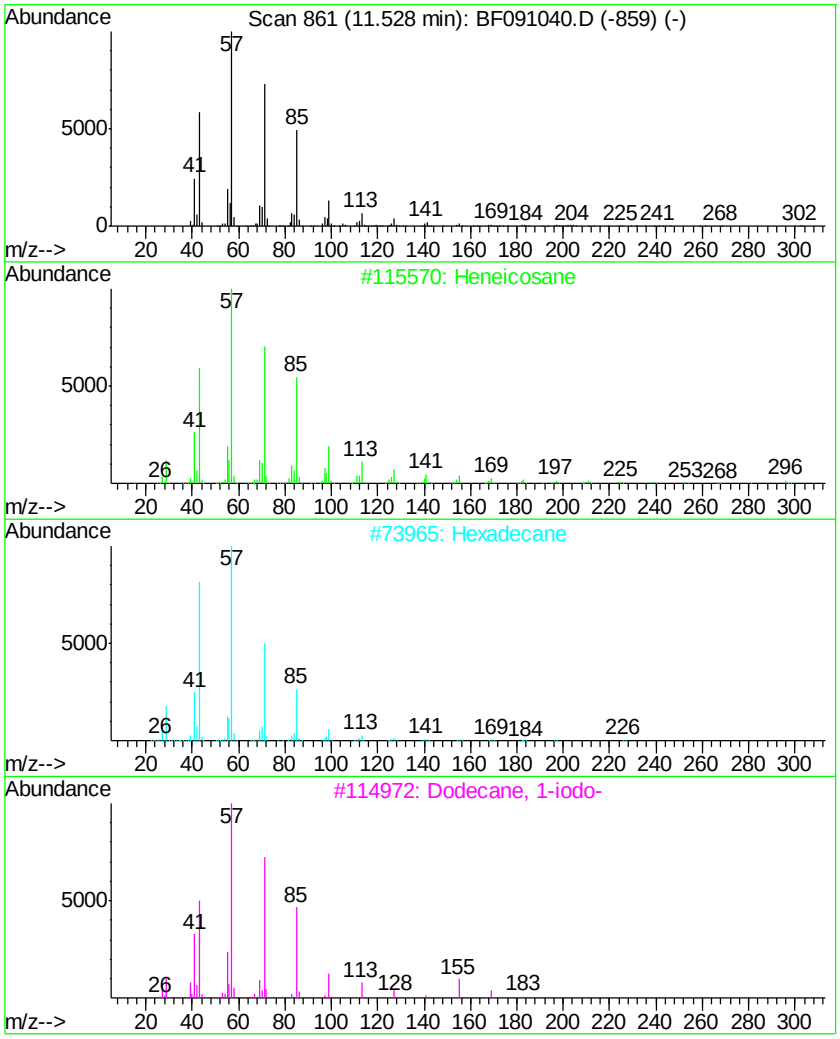
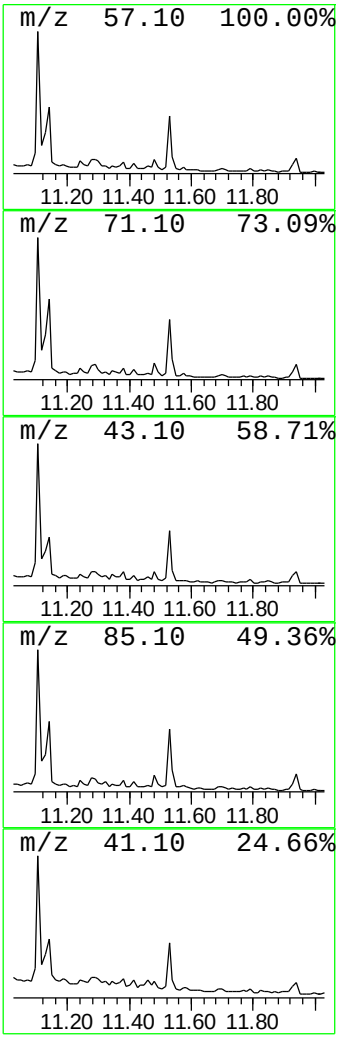
Peak Number 14 Heneicosane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.53 | 10.74 ng | 925264 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 91 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |
| 3 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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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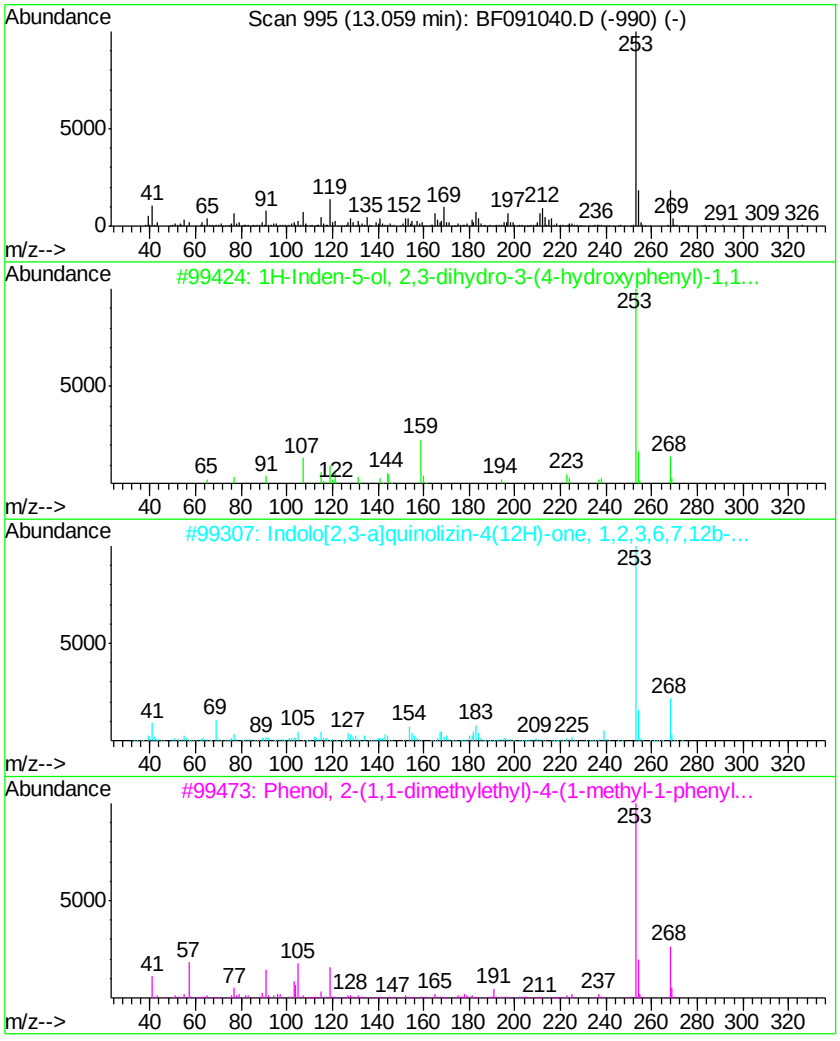
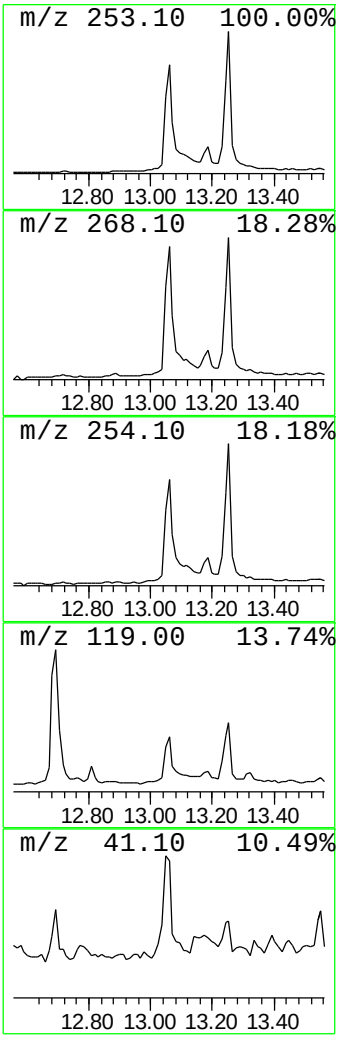
Peak Number 15 1H-Inden-5-ol, 2,3-dihydro-... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.06 | 7.61 ng | 746686 | Chrysene-d12 | 13.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-5-ol, 2,3-dihydro-3-(4-... | 268 | C18H20O2 | 010527-11-4 | 64 |
| 2 | Indolo[2,3-a]quinolizin-4(12H)-o... | 268 | C17H20N2O | 020156-09-6 | 64 |
| 3 | Phenol, 2-(1,1-dimethylethyl)-4-... | 268 | C19H24O | 056187-92-9 | 59 |
| 4 | 9,10-Anthracenedione, 1,8-dimeth... | 268 | C16H12O4 | 006407-55-2 | 53 |
| 5 | Pyrido[2,1-a]-9H-b-carboline, 1,... | 268 | C18H24N2 | 082605-35-4 | 45 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

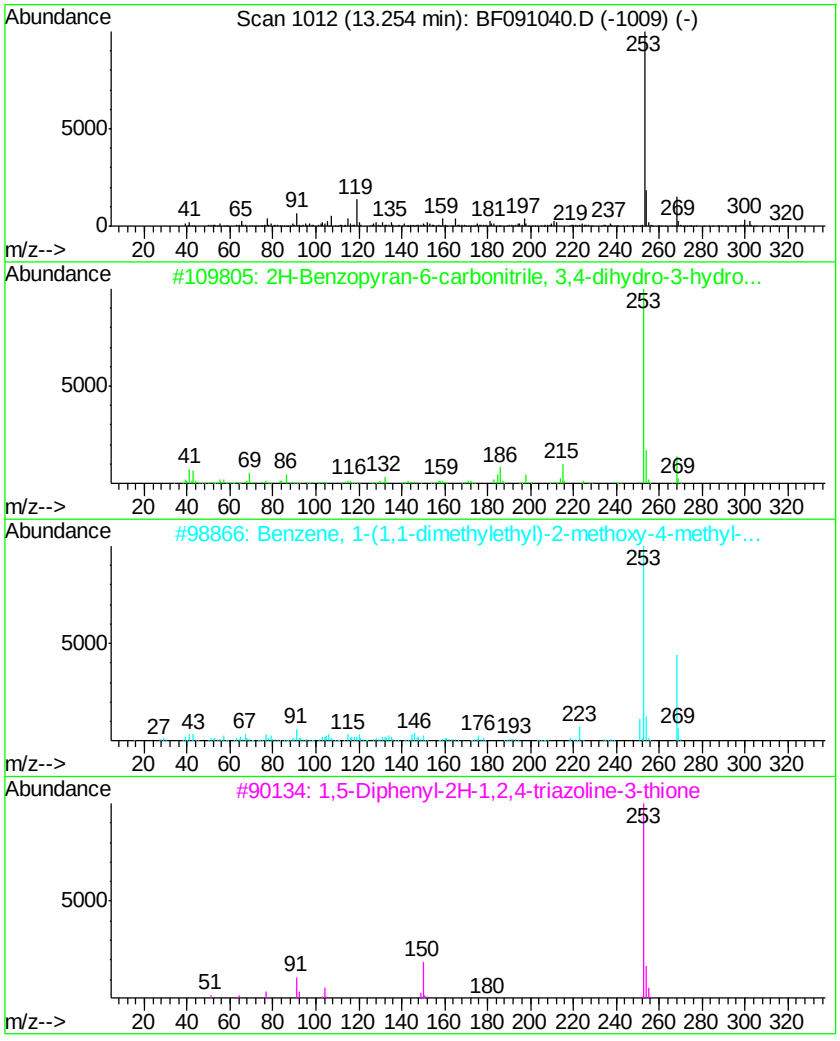
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

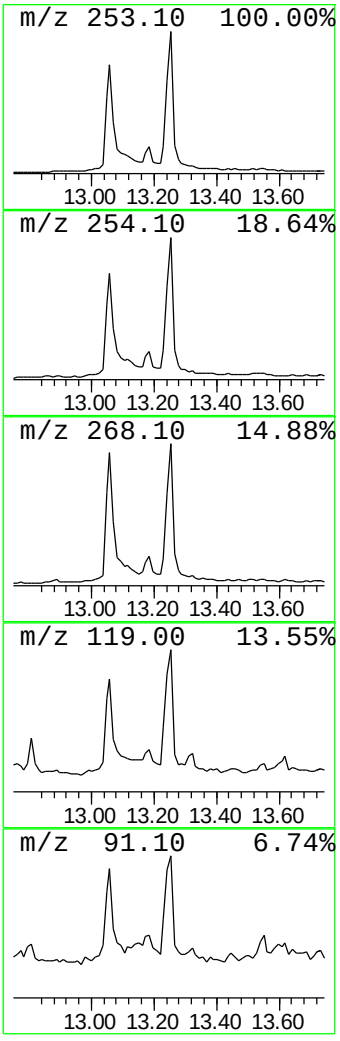
**********

Peak Number 16 2H-Benzopyran-6-carbonitril... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.25 | 5.06 ng | 496861 | Chrysene-d12 | 13.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Benzopyran-6-carbonitrile, 3,... | 286 | C16H18N2O3 | 150871-62-8 | 64 |
| 2 | Benzene, 1-(1,1-dimethylethyl)-2... | 268 | C12H16N2O5 | 000083-66-9 | 64 |
| 3 | 1,5-Diphenyl-2H-1,2,4-triazoline... | 253 | C14H11N3S | 005055-74-3 | 58 |
| 4 | 1,2-Dihydropyrido(3,2,1-kl)pheno... | 253 | C15H11NOS | 069513-42-4 | 45 |
| 5 | 1,3-Diphenyl-4H-1,2,4-triazoline... | 253 | C14H11N3S | 005055-73-2 | 42 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

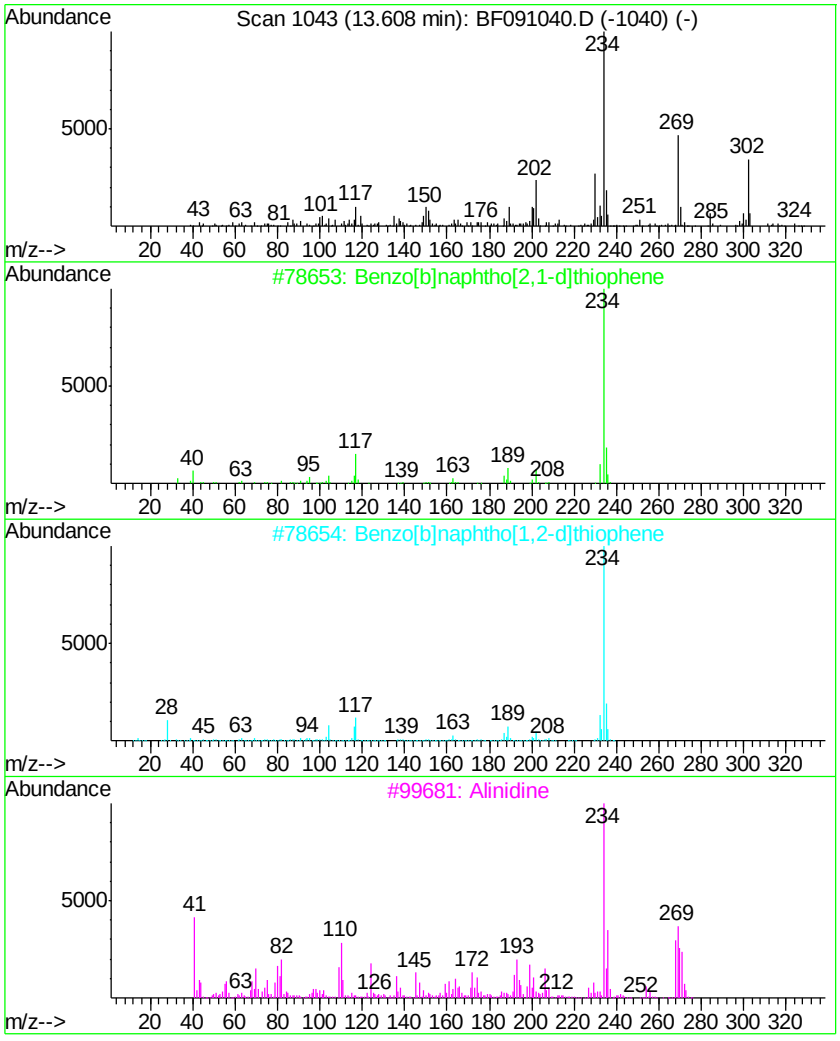
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

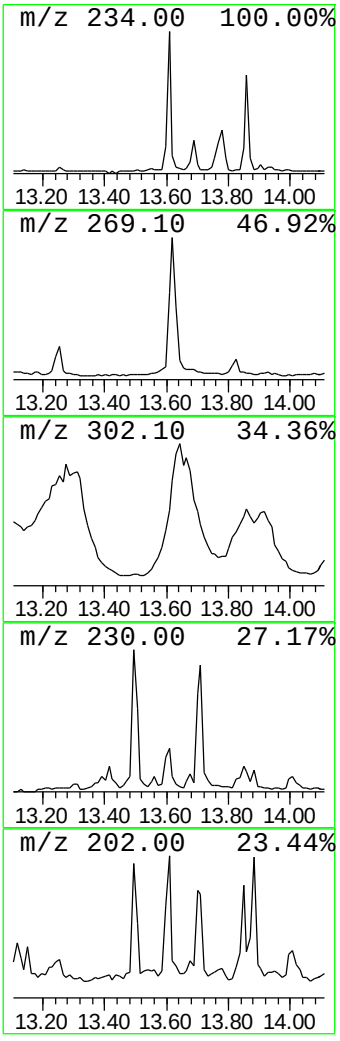
**********

Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.61 | 7.86 ng | 771493 | Chrysene-d12 | 13.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 62 |
| 2 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 60 |
| 3 | Alinidine | 269 | C12H13Cl2N3 | 033178-86-8 | 47 |
| 4 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 46 |
| 5 | Quinoxalino[2,3-b]quinoxaline, 5... | 234 | C14H10N4 | 000531-46-4 | 38 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

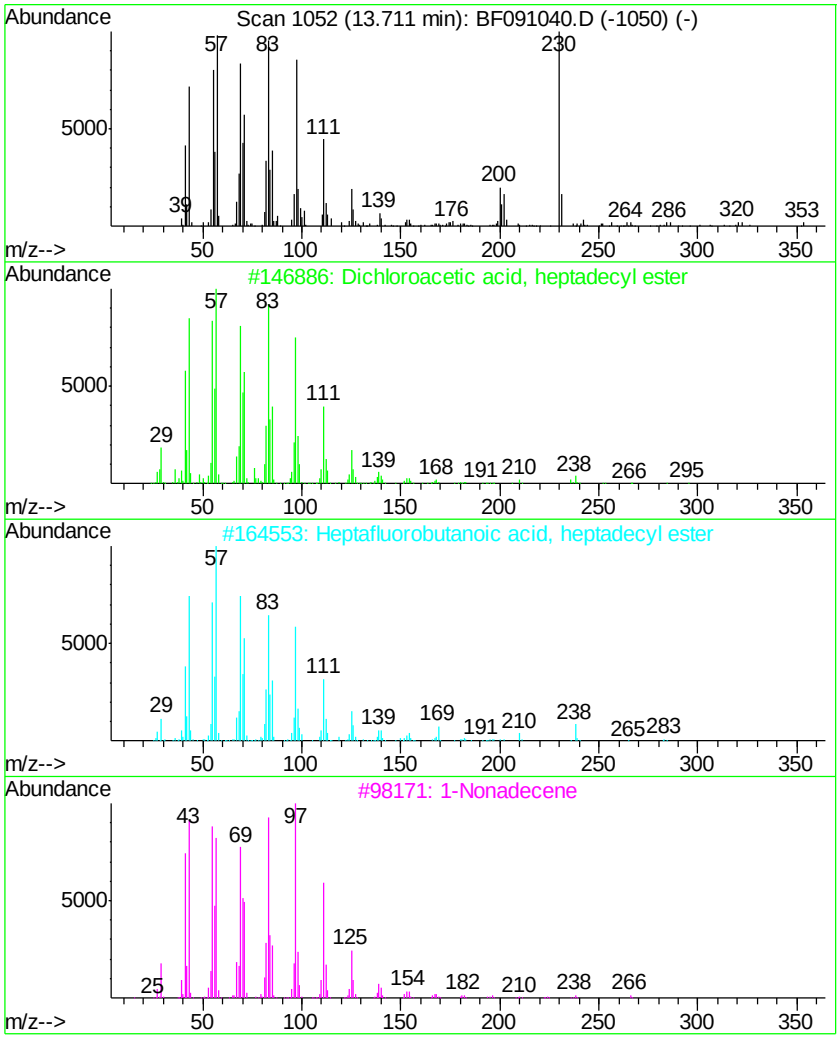
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

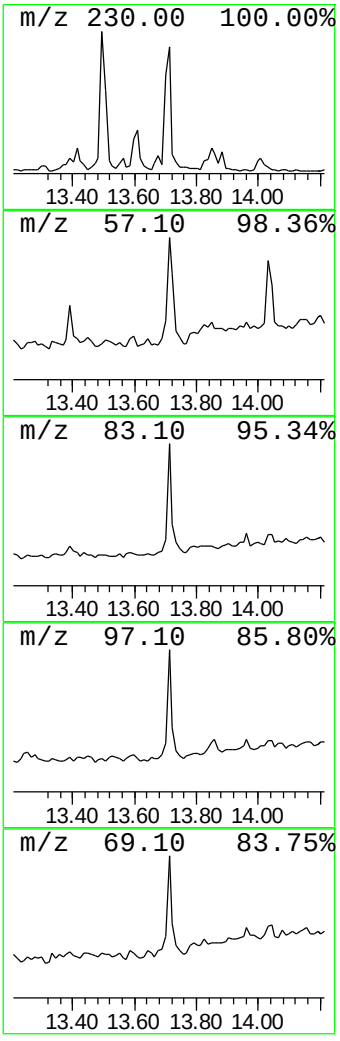
**********

Peak Number 18 Dichloroacetic acid, heptad... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.71 | 4.48 ng | 439550 | Chrysene-d12 | 13.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 90 |
| 2 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 86 |
| 3 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 84 |
| 4 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 81 |
| 5 | 9-Tricosene, (Z)- | 322 | C23H46 | 027519-02-4 | 81 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

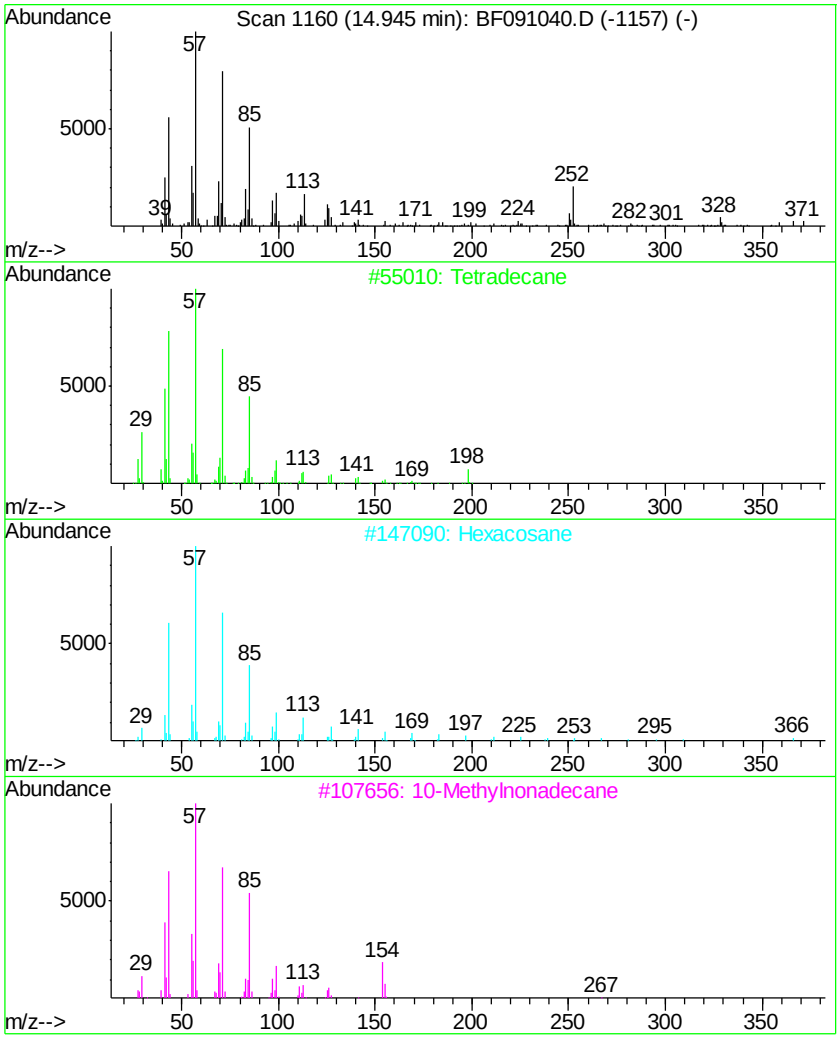
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

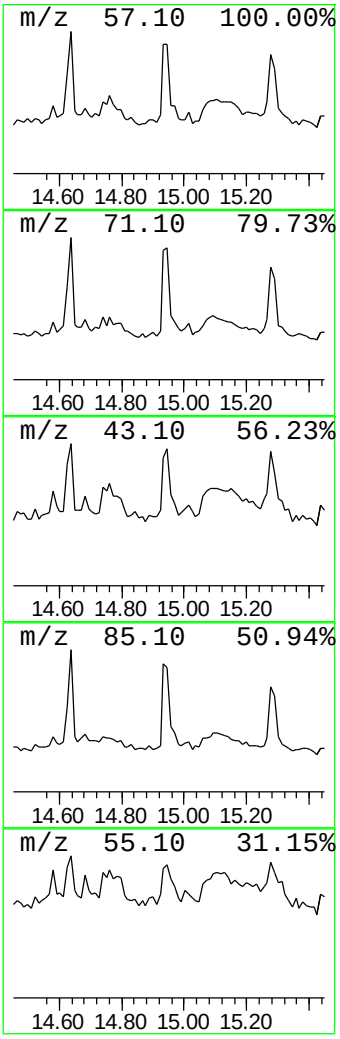
**********

Peak Number 19 Tetradecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.95 | 4.75 ng | 221697 | Perylene-d12 | 15.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 89 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 81 |
| 3 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 74 |
| 4 | Tetratriacontane | 479 | C34H70 | 014167-59-0 | 72 |
| 5 | Triacontane | 422 | C30H62 | 000638-68-6 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091040.D
Acq On : 5 Nov 2016 00:19
Operator : UM/SJ
Sample : H5526-20
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-108-0.5-1.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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... | 4.86 | 21.1 | ng | 1140480 | 1 | 6.70 | 1080650 | 20.0 |
| unknown6.48 | 6.48 | 78.3 | ng | 4231300 | 1 | 6.70 | 1080650 | 20.0 |
| Decane, 2,3,5-tri... | 9.69 | 4.1 | ng | 330604 | 3 | 9.74 | 1610670 | 20.0 |
| Hexadecane | 10.19 | 10.8 | ng | 869295 | 3 | 9.74 | 1610670 | 20.0 |
| Eicosane | 10.41 | 10.7 | ng | 860669 | 3 | 9.74 | 1610670 | 20.0 |
| Heptacosane | 10.66 | 44.5 | ng | 3831290 | 4 | 11.22 | 1723270 | 20.0 |
| Dodecane, 4-methyl- | 10.85 | 5.7 | ng | 489307 | 4 | 11.22 | 1723270 | 20.0 |
| Undecane, 3,9-dim... | 10.98 | 3.1 | ng | 268905 | 4 | 11.22 | 1723270 | 20.0 |
| Heptadecane | 11.14 | 14.8 | ng | 1272040 | 4 | 11.22 | 1723270 | 20.0 |
| Dibenzo[b,e]7,8-d... | 11.30 | 5.8 | ng | 499778 | 4 | 11.22 | 1723270 | 20.0 |
| Heneicosane | 11.53 | 10.7 | ng | 925264 | 4 | 11.22 | 1723270 | 20.0 |
| 1H-Inden-5-ol, 2,... | 13.06 | 7.6 | ng | 746686 | 5 | 13.86 | 1963280 | 20.0 |
| 2H-Benzopyran-6-c... | 13.25 | 5.1 | ng | 496861 | 5 | 13.86 | 1963280 | 20.0 |
| Benzo[b]naphtho[2... | 13.61 | 7.9 | ng | 771493 | 5 | 13.86 | 1963280 | 20.0 |
| Dichloroacetic ac... | 13.71 | 4.5 | ng | 439550 | 5 | 13.86 | 1963280 | 20.0 |
| Tetradecane | 14.95 | 4.8 | ng | 221697 | 6 | 15.24 | 934175 | 20.0 |