LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

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-BF043015.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 | 1.576 | 31 | 34 | 37 | rVB | 434955 | 618163 | 13.94% | 1.500% |
| 2 | 1.747 | 47 | 49 | 57 | rVV2 | 760376 | 1168423 | 26.36% | 2.836% |
| 3 | 1.861 | 57 | 59 | 91 | rVB | 2439669 | 4433181 | 100.00% | 10.759% |
| 4 | 5.599 | 383 | 386 | 389 | rBV | 673161 | 683910 | 15.43% | 1.660% |
| 5 | 6.856 | 494 | 496 | 499 | rBV | 430256 | 434024 | 9.79% | 1.053% |
| 6 | 7.005 | 507 | 509 | 512 | rBV | 1048346 | 1336127 | 30.14% | 3.243% |
| 7 | 7.302 | 532 | 535 | 537 | rBV | 268370 | 341874 | 7.71% | 0.830% |
| 8 | 7.485 | 549 | 551 | 552 | rBV | 1472948 | 1338931 | 30.20% | 3.250% |
| 9 | 7.519 | 552 | 554 | 556 | rVB | 528015 | 599960 | 13.53% | 1.456% |
| 10 | 7.965 | 590 | 593 | 594 | rBV2 | 173076 | 305756 | 6.90% | 0.742% |
| 11 | 7.988 | 594 | 595 | 598 | rVV2 | 1268467 | 1255524 | 28.32% | 3.047% |
| 12 | 8.250 | 615 | 618 | 620 | rBV | 134659 | 125623 | 2.83% | 0.305% |
| 13 | 8.479 | 634 | 638 | 640 | rBV | 226939 | 305055 | 6.88% | 0.740% |
| 14 | 8.559 | 642 | 645 | 648 | rBV | 624861 | 812859 | 18.34% | 1.973% |
| 15 | 8.605 | 648 | 649 | 652 | rVV2 | 87227 | 123825 | 2.79% | 0.301% |
| 16 | 8.673 | 652 | 655 | 657 | rVB3 | 36825 | 64058 | 1.44% | 0.155% |
| 17 | 8.799 | 661 | 666 | 667 | rBV | 49505 | 75310 | 1.70% | 0.183% |
| 18 | 8.868 | 669 | 672 | 674 | rVV2 | 544641 | 770918 | 17.39% | 1.871% |
| 19 | 8.902 | 674 | 675 | 677 | rVV | 108928 | 171182 | 3.86% | 0.415% |
| 20 | 8.936 | 677 | 678 | 681 | rVB | 262893 | 258182 | 5.82% | 0.627% |
| 21 | 8.993 | 681 | 683 | 686 | rVB3 | 35810 | 55987 | 1.26% | 0.136% |
| 22 | 9.119 | 692 | 694 | 698 | rVB3 | 25645 | 50928 | 1.15% | 0.124% |
| 23 | 9.222 | 701 | 703 | 705 | rBV2 | 103527 | 165784 | 3.74% | 0.402% |
| 24 | 9.359 | 713 | 715 | 718 | rVB | 169375 | 162225 | 3.66% | 0.394% |
| 25 | 9.462 | 722 | 724 | 725 | rVV | 345309 | 333149 | 7.51% | 0.809% |
| 26 | 9.508 | 725 | 728 | 732 | rVV | 141333 | 237791 | 5.36% | 0.577% |
| 27 | 9.576 | 732 | 734 | 736 | rVV2 | 66198 | 94312 | 2.13% | 0.229% |
| 28 | 9.611 | 736 | 737 | 740 | rVB | 205000 | 166264 | 3.75% | 0.404% |
| 29 | 9.702 | 743 | 745 | 748 | rVV | 226001 | 219765 | 4.96% | 0.533% |
| 30 | 9.759 | 748 | 750 | 753 | rVV | 1946916 | 2012833 | 45.40% | 4.885% |
| 31 | 9.828 | 753 | 756 | 757 | rVV2 | 95979 | 110991 | 2.50% | 0.269% |
| 32 | 9.885 | 757 | 761 | 763 | rVV | 3078764 | 3082485 | 69.53% | 7.481% |
| 33 | 9.931 | 763 | 765 | 770 | rVB2 | 93851 | 116441 | 2.63% | 0.283% |
| 34 | 10.011 | 770 | 772 | 774 | rBV3 | 45646 | 81588 | 1.84% | 0.198% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

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-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.056 | 774 | 776 | 779 | rBV2 | 51462 | 84862 | 1.91% | 0.206% |
| 36 | 10.114 | 779 | 781 | 783 | rVB3 | 51345 | 71053 | 1.60% | 0.172% |
| 37 | 10.216 | 788 | 790 | 792 | rBV | 1856854 | 2082930 | 46.98% | 5.055% |
| 38 | 10.274 | 792 | 795 | 797 | rBV2 | 35689 | 79096 | 1.78% | 0.192% |
| 39 | 10.388 | 804 | 805 | 807 | rVB2 | 59547 | 57640 | 1.30% | 0.140% |
| 40 | 10.456 | 809 | 811 | 815 | rVB | 444971 | 695949 | 15.70% | 1.689% |
| 41 | 10.548 | 815 | 819 | 821 | rBV | 747502 | 1257746 | 28.37% | 3.053% |
| 42 | 10.582 | 821 | 822 | 823 | rBV | 68810 | 55325 | 1.25% | 0.134% |
| 43 | 10.628 | 823 | 826 | 828 | rVV | 1117117 | 1399943 | 31.58% | 3.398% |
| 44 | 10.662 | 828 | 829 | 832 | rVB | 525848 | 556946 | 12.56% | 1.352% |
| 45 | 10.776 | 836 | 839 | 843 | rBV | 502055 | 732525 | 16.52% | 1.778% |
| 46 | 10.879 | 844 | 848 | 850 | rVB | 447916 | 514215 | 11.60% | 1.248% |
| 47 | 10.936 | 850 | 853 | 855 | rVB3 | 54960 | 69075 | 1.56% | 0.168% |
| 48 | 11.005 | 858 | 859 | 861 | rBV2 | 37729 | 57819 | 1.30% | 0.140% |
| 49 | 11.051 | 861 | 863 | 865 | rBV2 | 677430 | 715062 | 16.13% | 1.735% |
| 50 | 11.085 | 865 | 866 | 870 | rBV2 | 154643 | 246209 | 5.55% | 0.598% |
| 51 | 11.188 | 873 | 875 | 878 | rBV | 124861 | 215636 | 4.86% | 0.523% |
| 52 | 11.245 | 878 | 880 | 882 | rBV2 | 83573 | 121017 | 2.73% | 0.294% |
| 53 | 11.302 | 882 | 885 | 888 | rVV | 173660 | 307797 | 6.94% | 0.747% |
| 54 | 11.359 | 888 | 890 | 892 | rVB2 | 131157 | 147150 | 3.32% | 0.357% |
| 55 | 11.451 | 895 | 898 | 900 | rBV | 131886 | 182805 | 4.12% | 0.444% |
| 56 | 11.485 | 900 | 901 | 904 | rVB2 | 96363 | 110710 | 2.50% | 0.269% |
| 57 | 11.565 | 904 | 908 | 912 | rBV3 | 114148 | 338252 | 7.63% | 0.821% |
| 58 | 11.668 | 915 | 917 | 921 | rVB5 | 55598 | 96765 | 2.18% | 0.235% |
| 59 | 11.725 | 921 | 922 | 924 | rBV | 245989 | 296877 | 6.70% | 0.721% |
| 60 | 11.817 | 927 | 930 | 934 | rVV3 | 167487 | 341263 | 7.70% | 0.828% |
| 61 | 11.885 | 934 | 936 | 939 | rVV4 | 45006 | 102729 | 2.32% | 0.249% |
| 62 | 11.954 | 939 | 942 | 946 | rVB3 | 75803 | 136504 | 3.08% | 0.331% |
| 63 | 12.034 | 946 | 949 | 951 | rBV | 1434337 | 1451053 | 32.73% | 3.522% |
| 64 | 12.091 | 952 | 954 | 958 | rVB3 | 51879 | 99191 | 2.24% | 0.241% |
| 65 | 12.159 | 958 | 960 | 961 | rBV | 42371 | 57104 | 1.29% | 0.139% |
| 66 | 12.194 | 961 | 963 | 965 | rVB2 | 80799 | 114997 | 2.59% | 0.279% |
| 67 | 12.285 | 968 | 971 | 973 | rBV3 | 44697 | 70099 | 1.58% | 0.170% |
| 68 | 12.331 | 973 | 975 | 979 | rVB5 | 18207 | 45454 | 1.03% | 0.110% |
| 69 | 12.411 | 979 | 982 | 984 | rBV | 61766 | 109531 | 2.47% | 0.266% |
| 70 | 12.445 | 984 | 985 | 990 | rBV4 | 77038 | 139464 | 3.15% | 0.338% |
| 71 | 12.891 | 1022 | 1024 | 1026 | rBV | 454310 | 562947 | 12.70% | 1.366% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

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-BF043015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.982 | 1030 | 1032 | 1035 | rVB2 | 54370 | 83505 | 1.88% | 0.203% |
| 73 | 13.040 | 1035 | 1037 | 1039 | rBV | 290354 | 290065 | 6.54% | 0.704% |
| 74 | 13.200 | 1049 | 1051 | 1052 | rVV | 61105 | 81964 | 1.85% | 0.199% |
| 75 | 13.520 | 1077 | 1079 | 1081 | rBV2 | 64170 | 97391 | 2.20% | 0.236% |
| 76 | 13.565 | 1081 | 1083 | 1086 | rVV | 129055 | 159226 | 3.59% | 0.386% |
| 77 | 13.611 | 1086 | 1087 | 1089 | rVV | 56125 | 80492 | 1.82% | 0.195% |
| 78 | 13.657 | 1089 | 1091 | 1093 | rVV | 67317 | 93442 | 2.11% | 0.227% |
| 79 | 14.068 | 1124 | 1127 | 1130 | rBV3 | 25356 | 66774 | 1.51% | 0.162% |
| 80 | 14.891 | 1197 | 1199 | 1202 | rVB | 2094440 | 2577878 | 58.15% | 6.257% |
| 81 | 16.068 | 1300 | 1302 | 1306 | rBV | 57801 | 77106 | 1.74% | 0.187% |
| 82 | 16.194 | 1310 | 1313 | 1315 | rBV | 688631 | 710384 | 16.02% | 1.724% |
| 83 | 16.846 | 1366 | 1370 | 1373 | rBV | 187282 | 341840 | 7.71% | 0.830% |
| 84 | 17.954 | 1464 | 1467 | 1470 | rBV | 590634 | 705749 | 15.92% | 1.713% |

Sum of corrected areas: 41202984

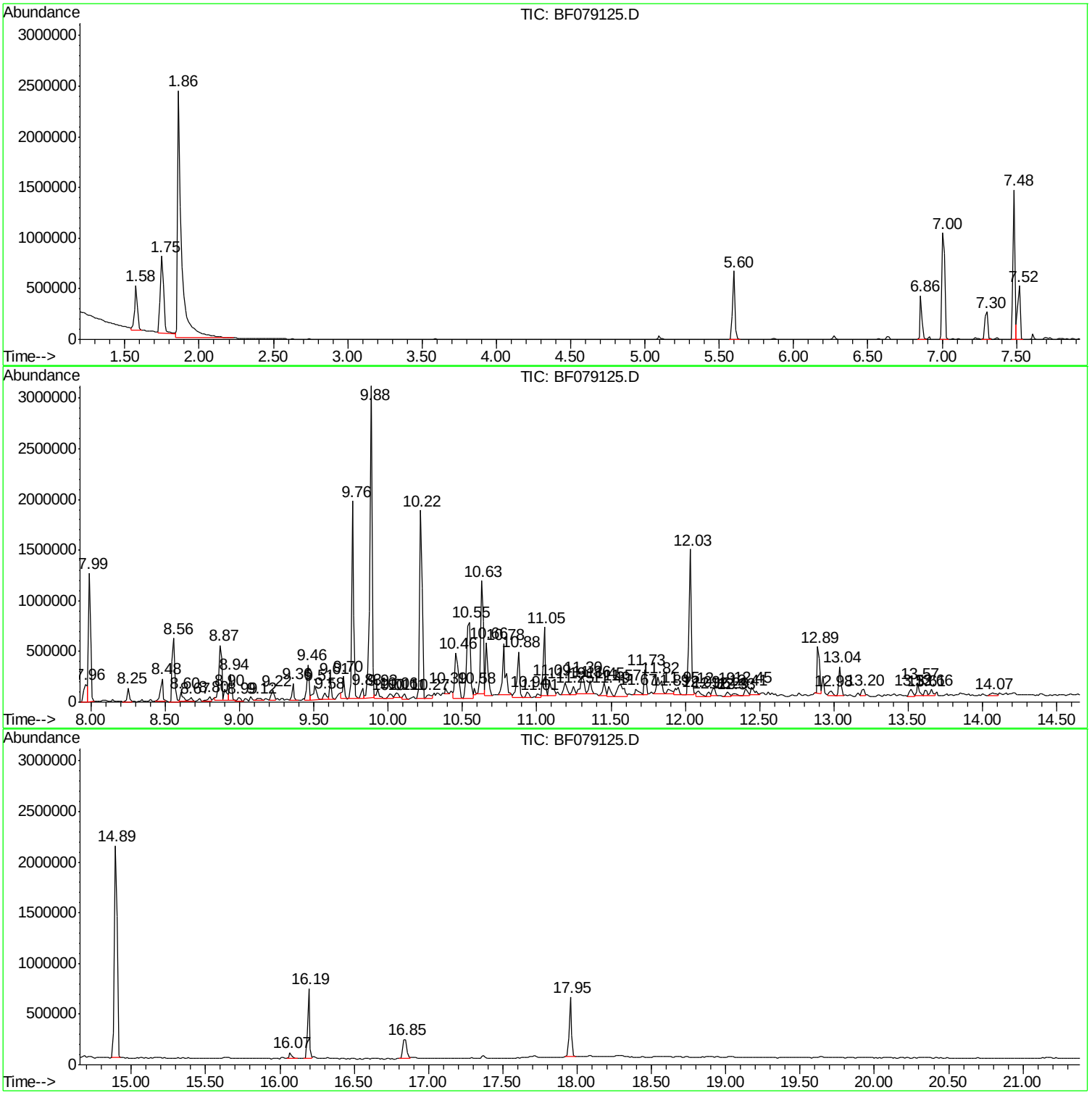
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

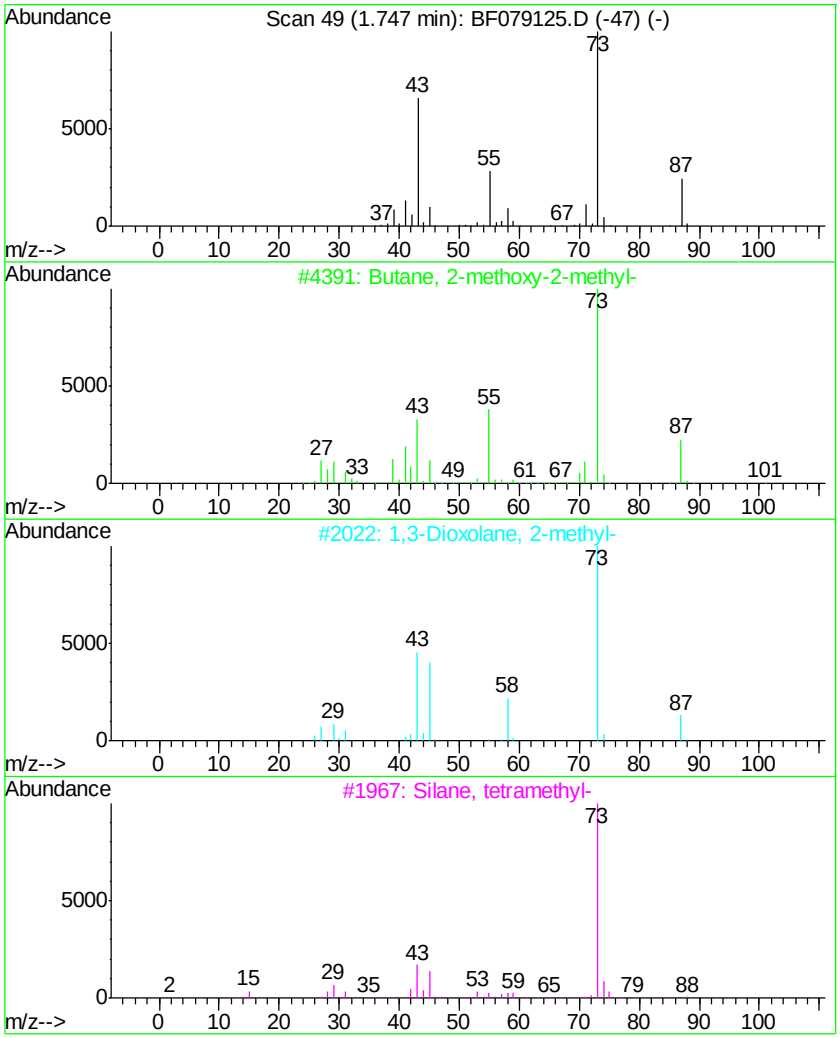
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

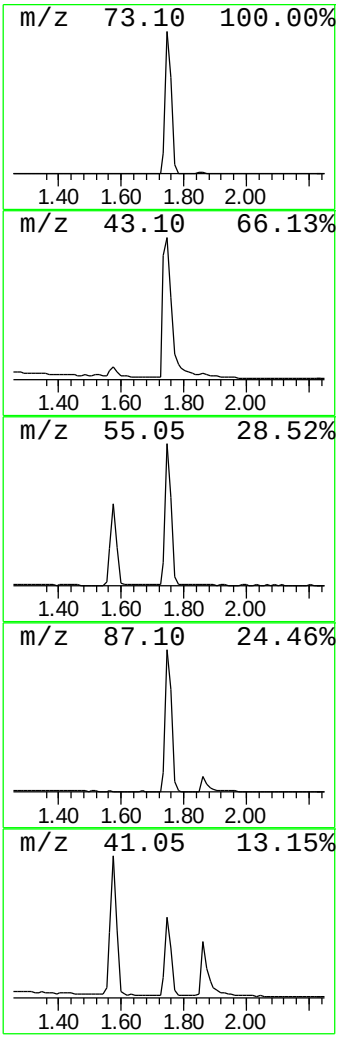
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.75 | 68.35 ng | 1168420 | 1,4-Dichlorobenzene-d4 | 7.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 72 |
| 2 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 37 |
| 3 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |
| 4 | Acetamide, N-methyl- | 73 | C3H7NO | 000079-16-3 | 12 |
| 5 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 12 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

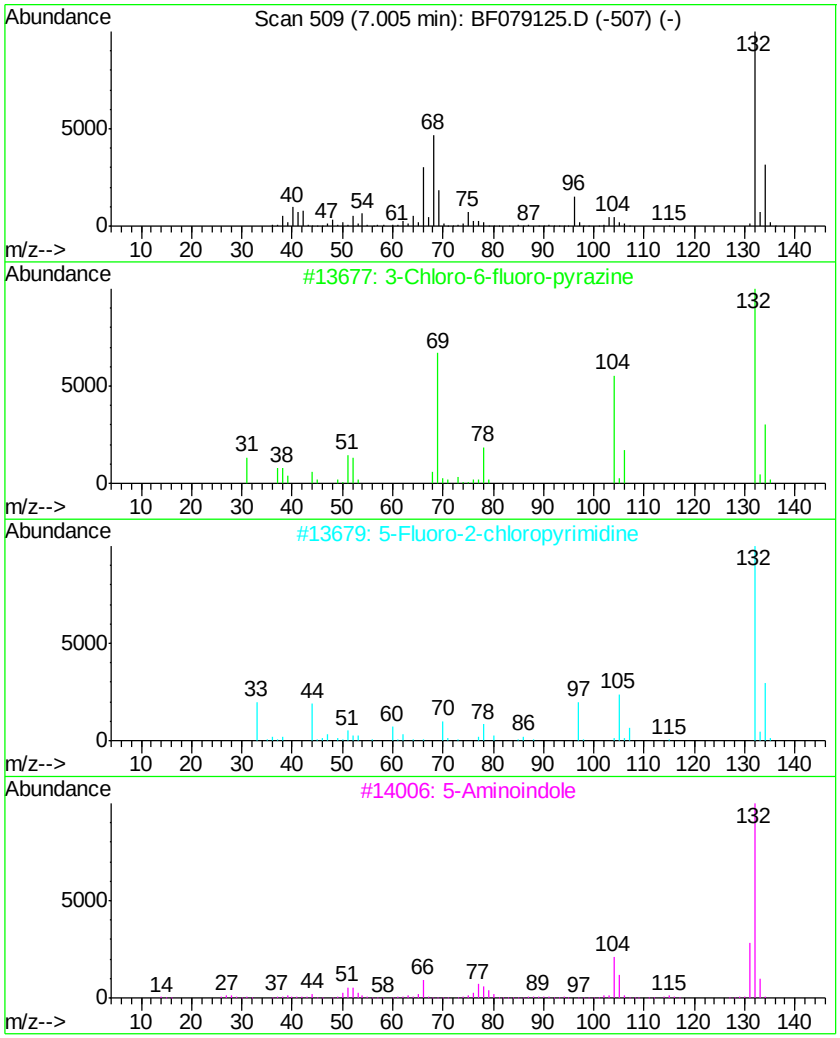
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

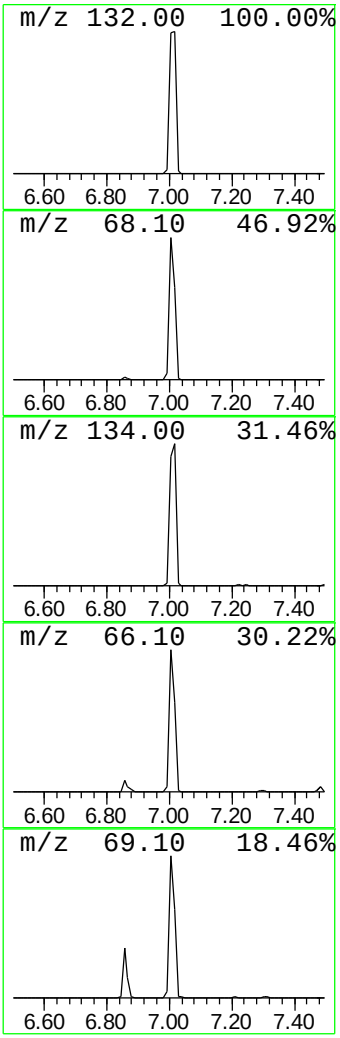
**********

Peak Number 4 unknown7.00 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.00 | 78.16 ng | 1336130 | 1,4-Dichlorobenzene-d4 | 7.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

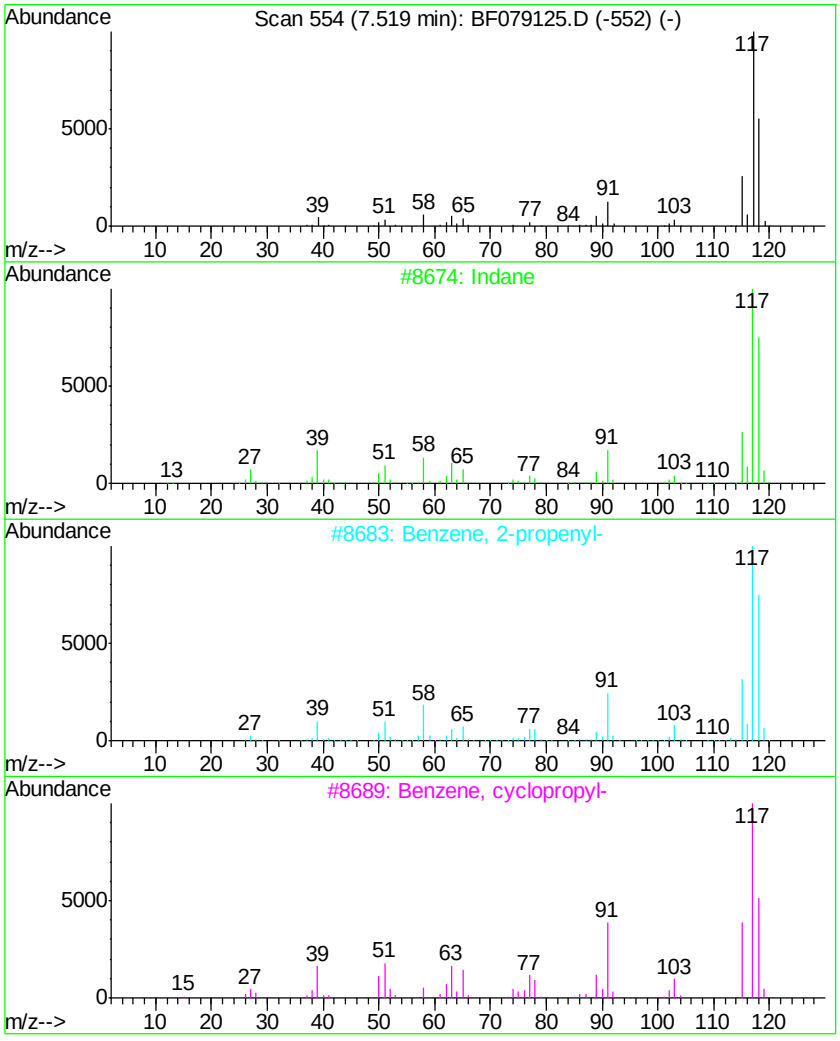
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

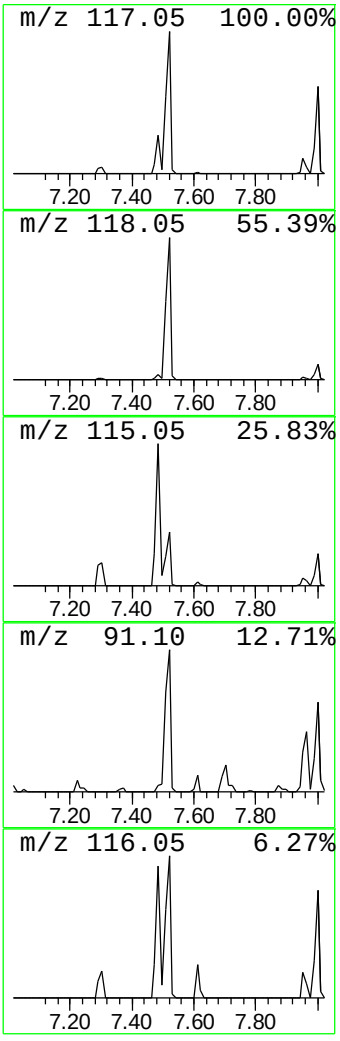
**********

Peak Number 6 Indane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.52 | 35.10 ng | 599960 | 1,4-Dichlorobenzene-d4 | 7.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 87 |
| 2 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 64 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 64 |
| 4 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 50 |
| 5 | m-Aminophenylacetylene | 117 | C8H7N | 054060-30-9 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

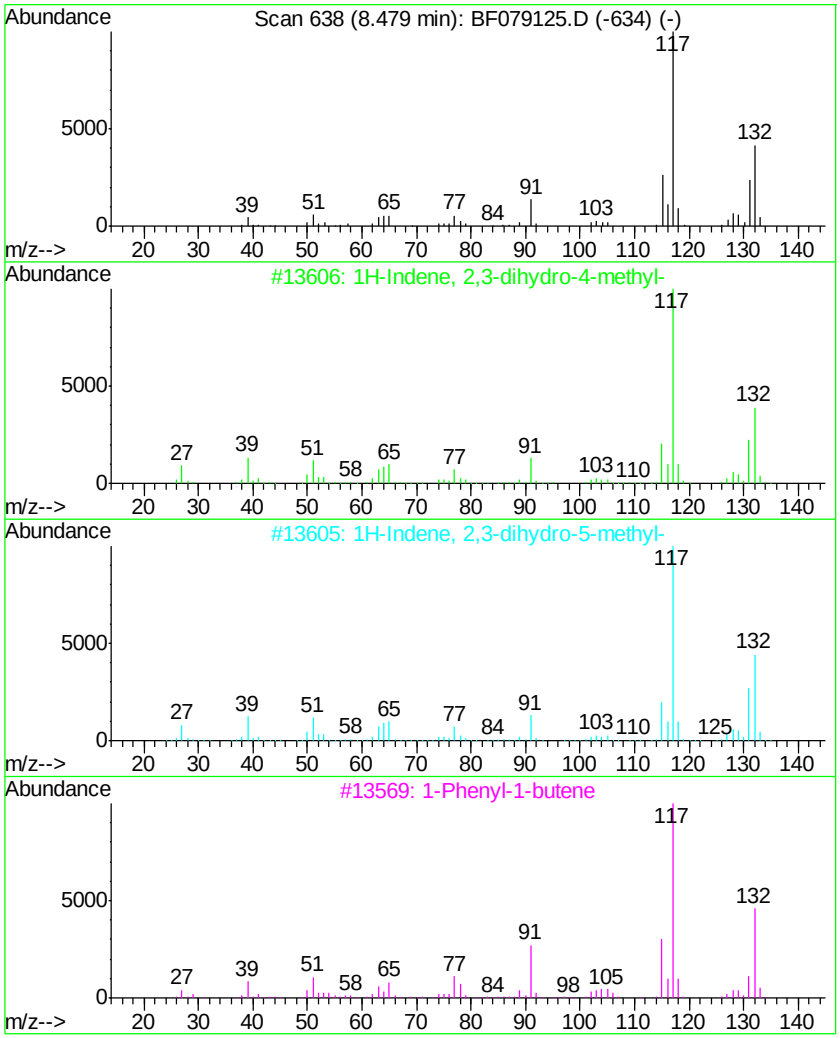
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

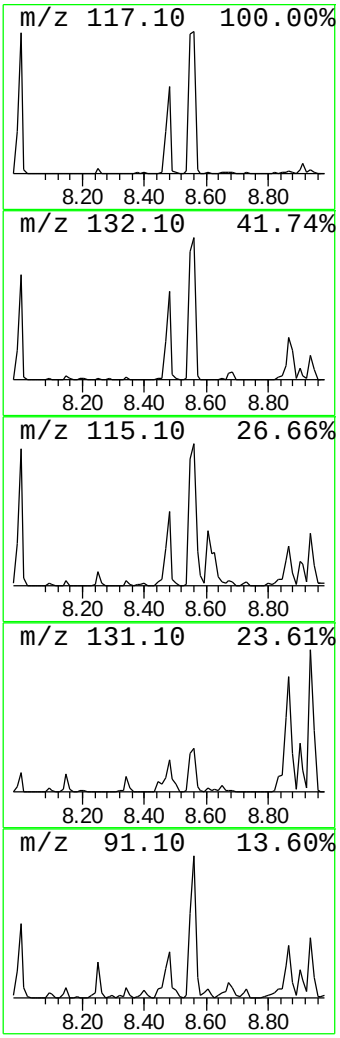
**********

Peak Number 7 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.48 | 7.91 ng | 305055 | Naphthalene-d8 | 8.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 93 |
| 3 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 87 |
| 5 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 83 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

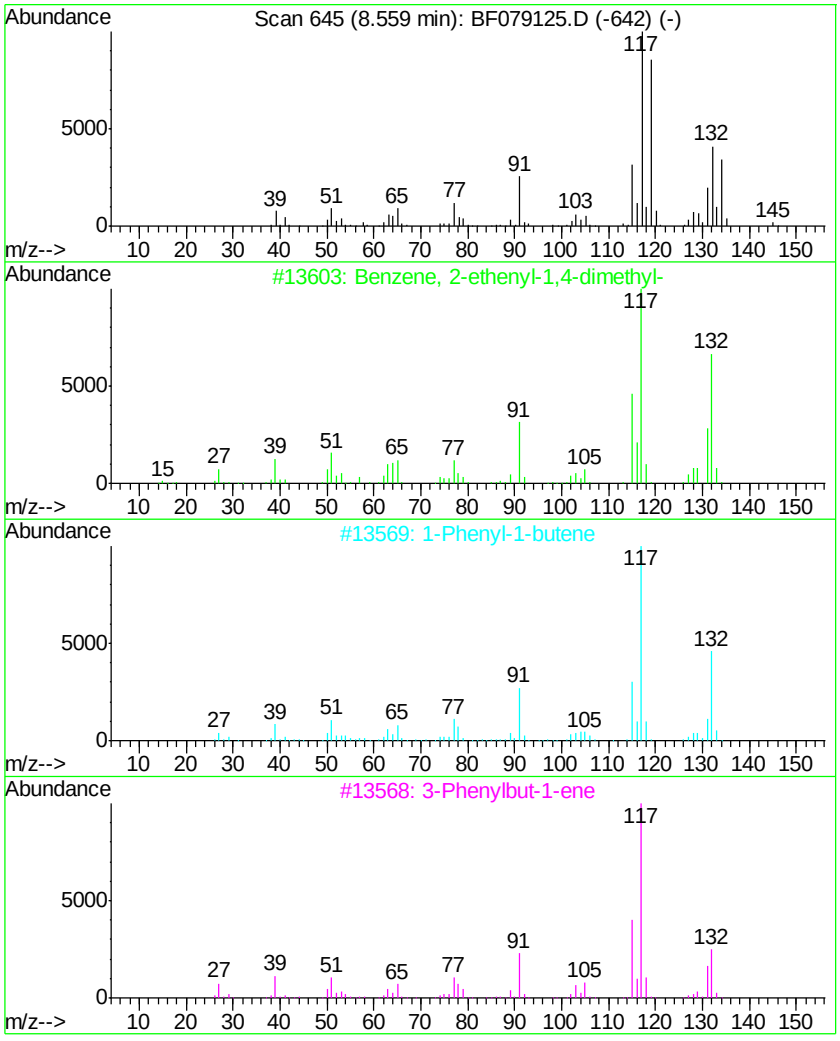
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

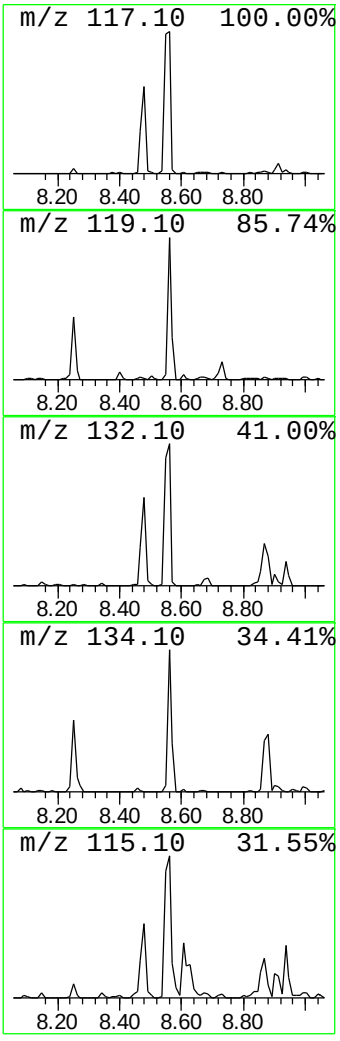
**********

Peak Number 8 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.56 | 21.09 ng | 812859 | Naphthalene-d8 | 8.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 89 |
| 2 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 60 |
| 4 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 55 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 55 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

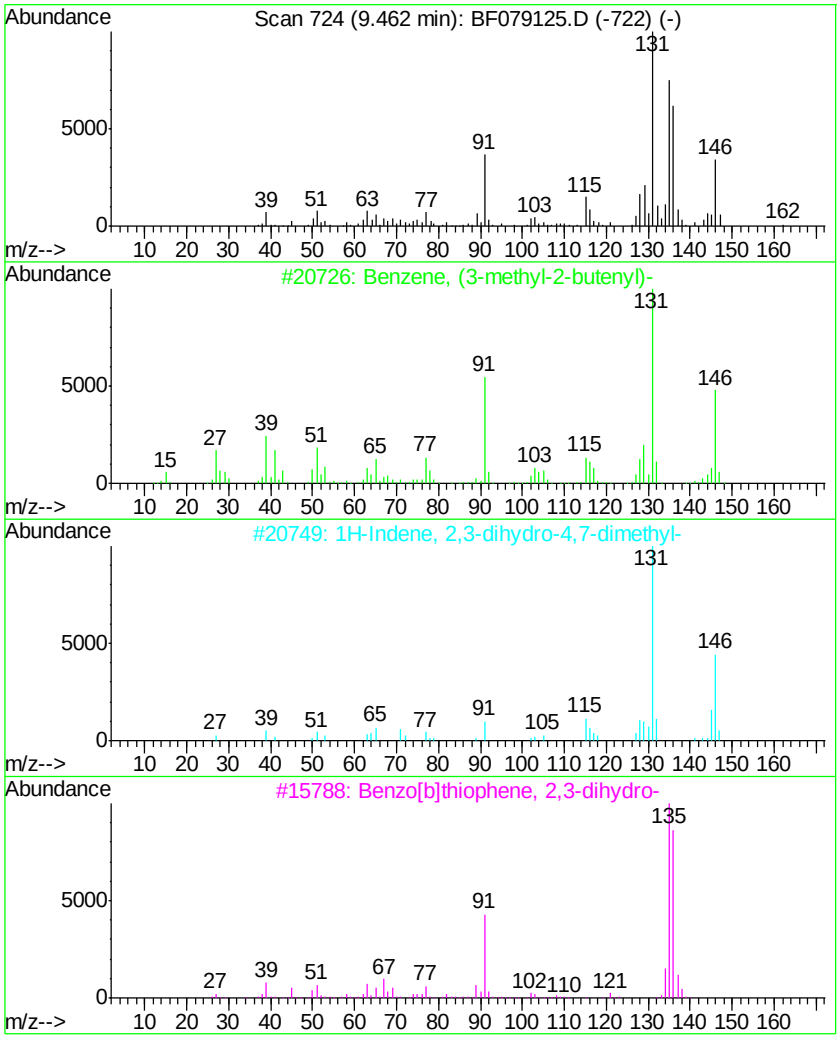
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

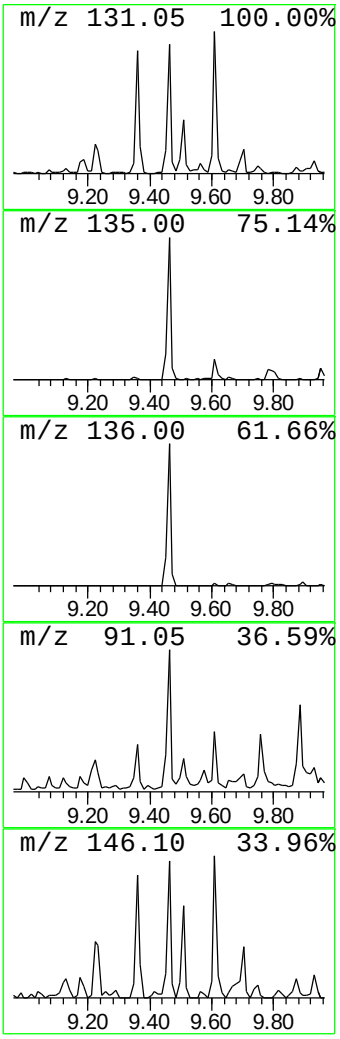
**********

Peak Number 9 Benzene, (3-methyl-2-butenyl)- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.46 | 8.64 ng | 333149 | Naphthalene-d8 | 8.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 64 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 46 |
| 3 | Benzo[b]thiophene, 2,3-dihydro- | 136 | C8H8S | 004565-32-6 | 46 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 46 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

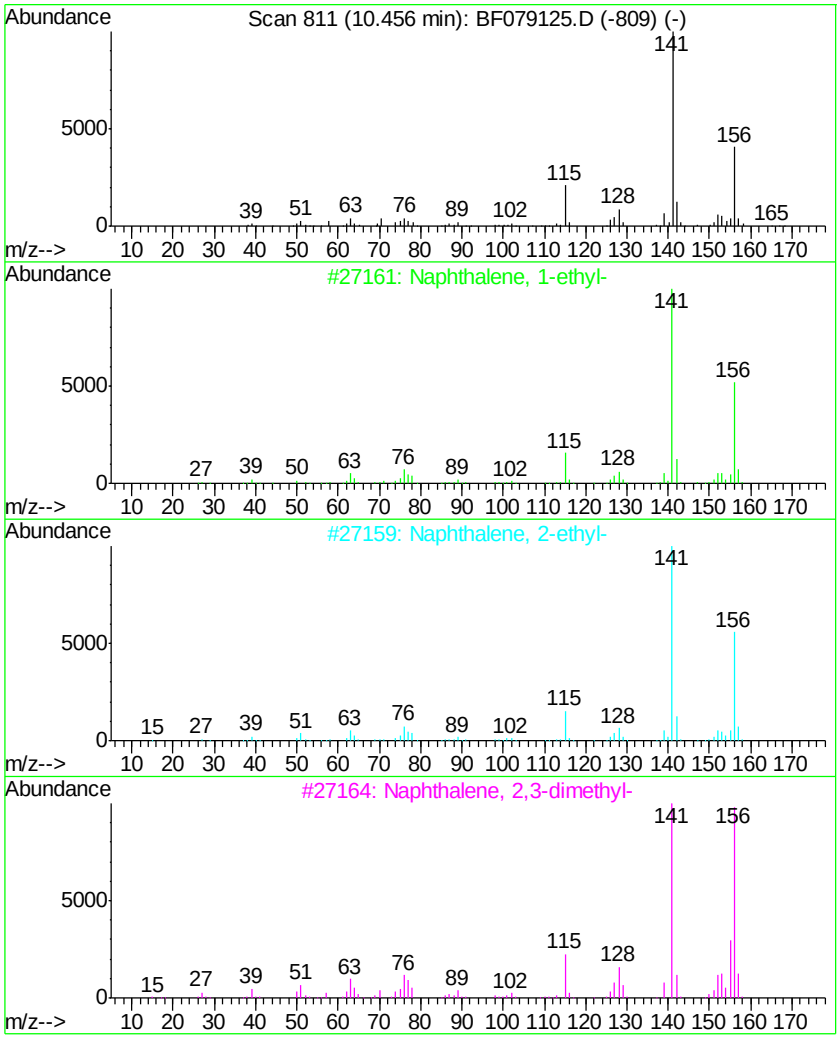
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

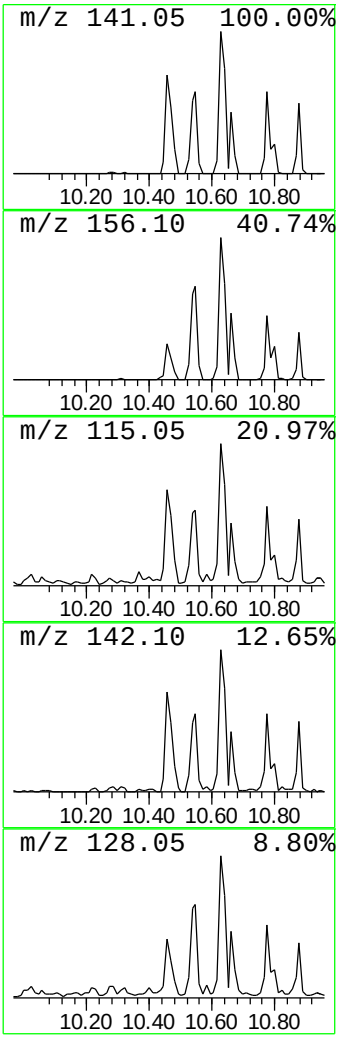
**********

Peak Number 11 Naphthalene, 2-ethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.46 | 19.47 ng | 695949 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 95 |
| 2 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 94 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 78 |
| 4 | 2-Thiophenecarboxylic acid, 5-et... | 156 | C7H8O2S | 023229-72-3 | 64 |
| 5 | Methyl phenylphosphinic acid | 156 | C7H9O2P | 004271-13-0 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

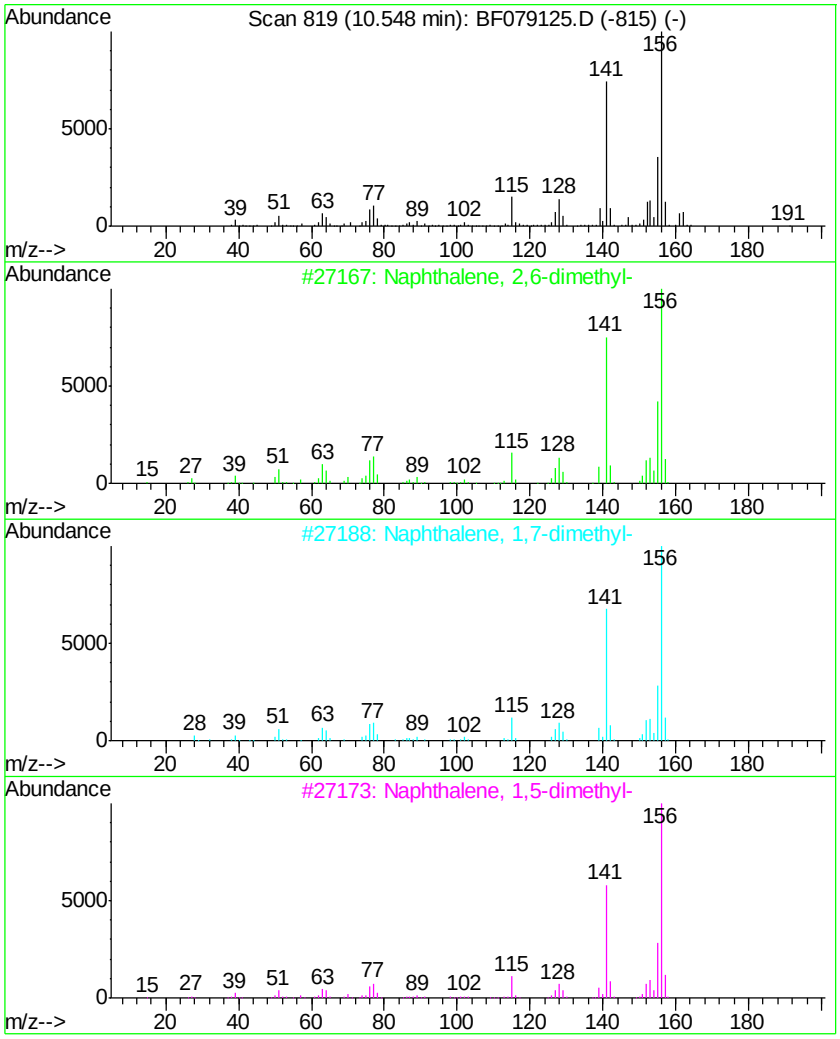
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

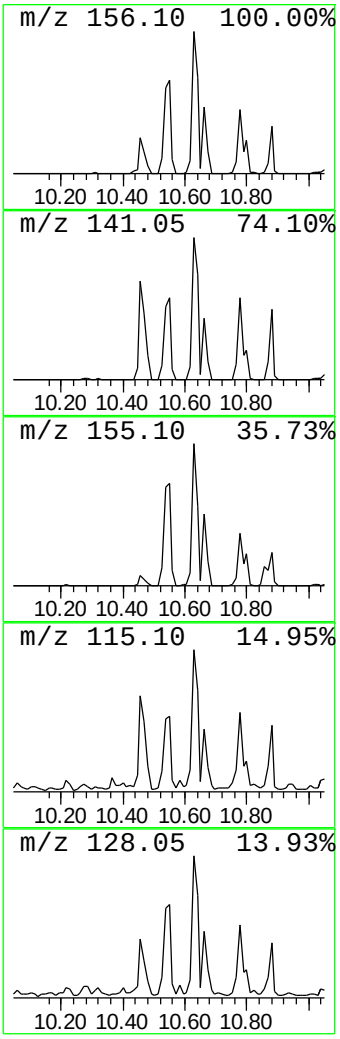
**********

Peak Number 12 Naphthalene, 2,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.55 | 35.18 ng | 1257750 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

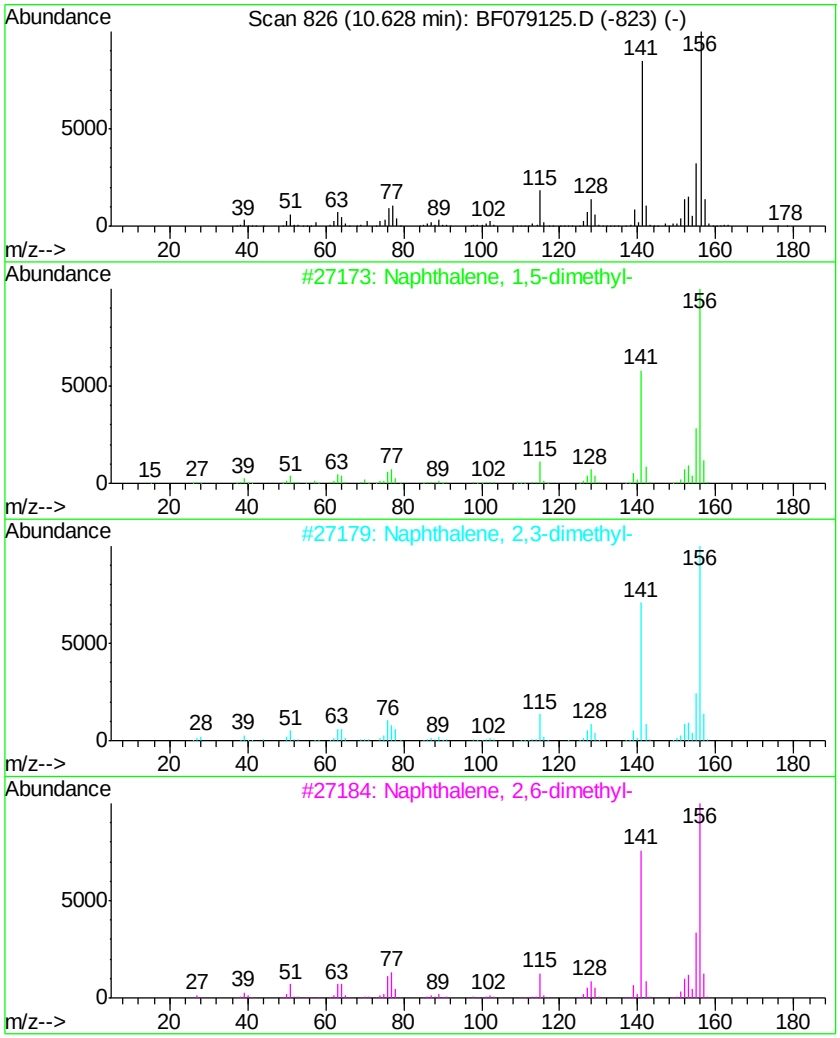
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

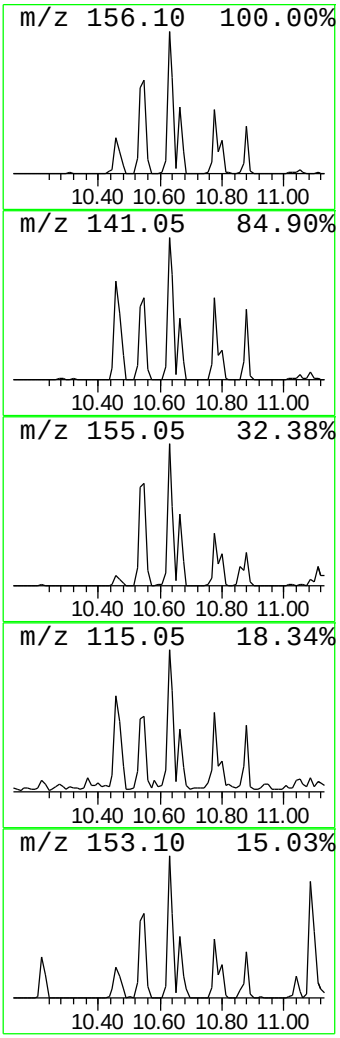
**********

Peak Number 13 Naphthalene, 1,5-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 39.16 ng | 1399940 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 4 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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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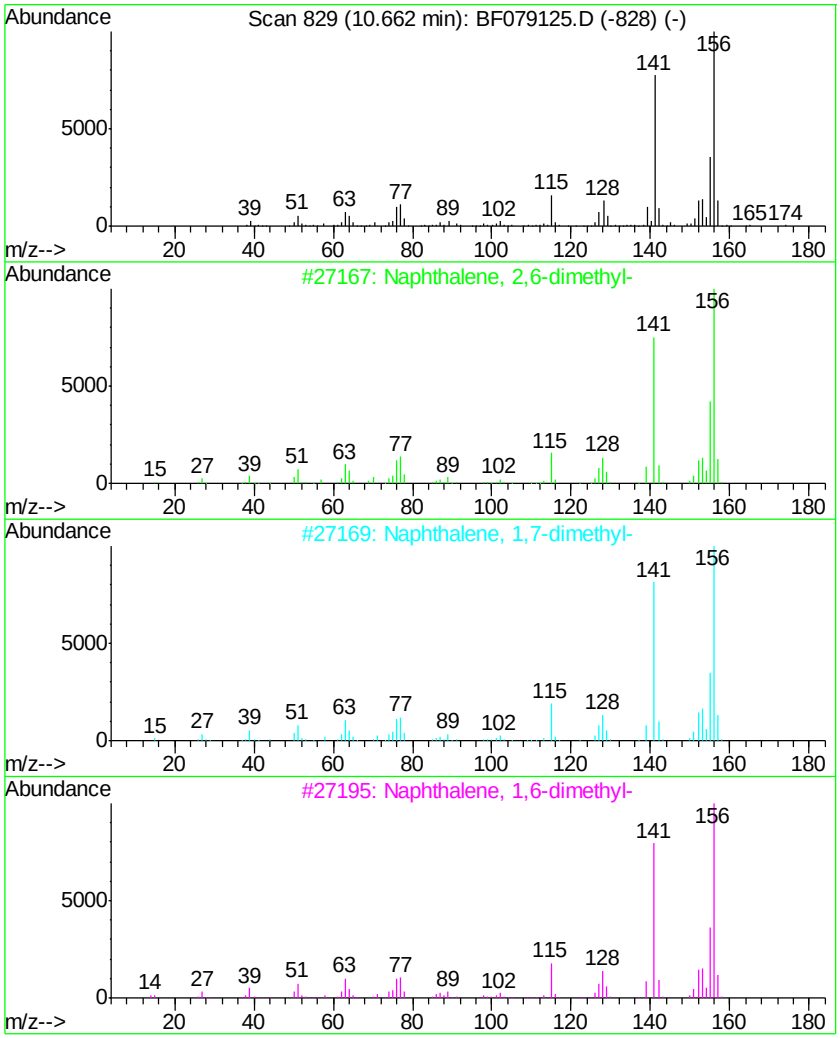
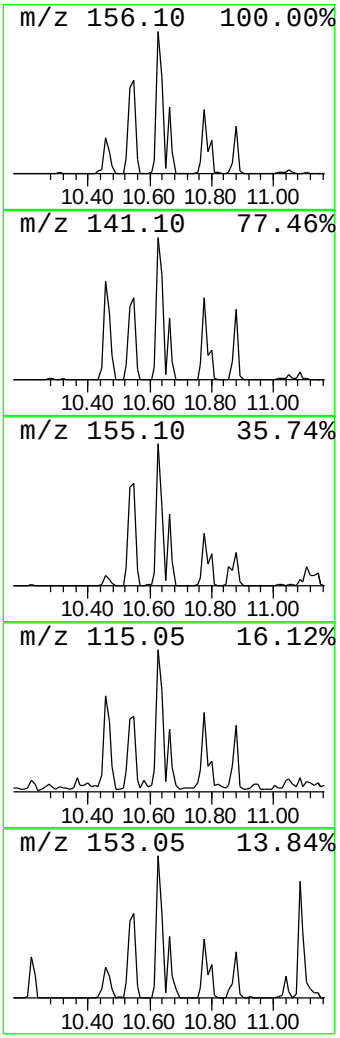
Peak Number 14 Naphthalene, 1,7-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 15.58 ng | 556946 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

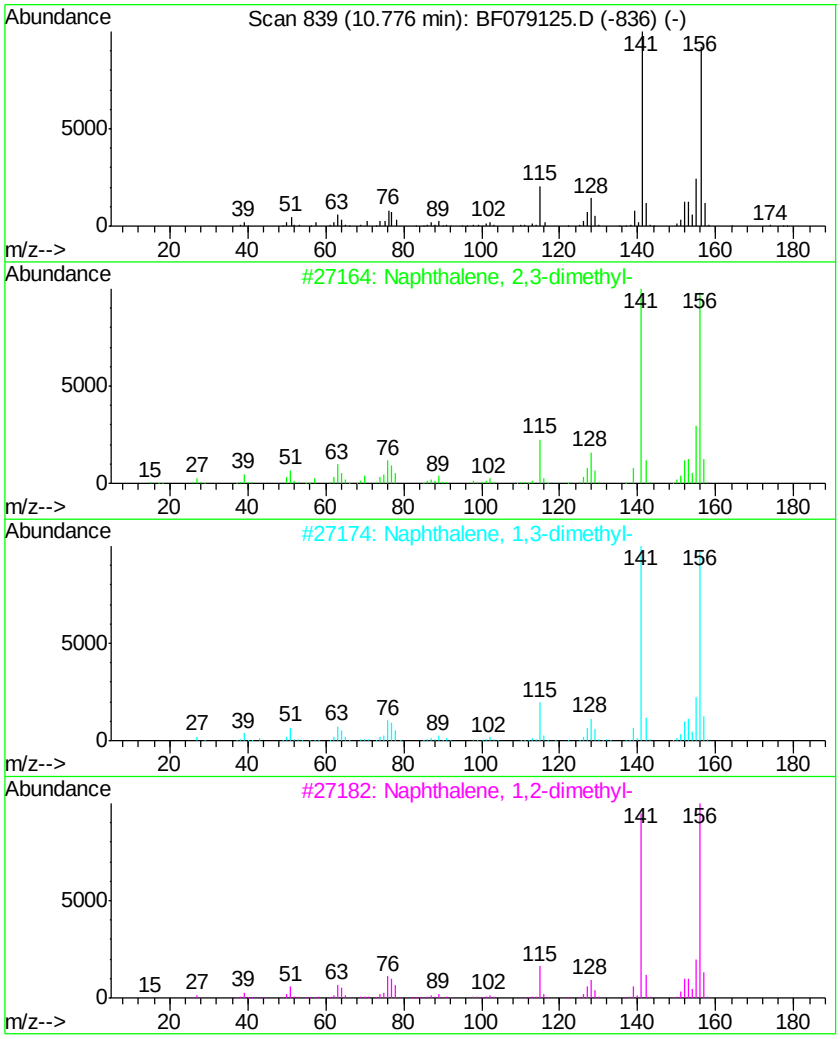
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

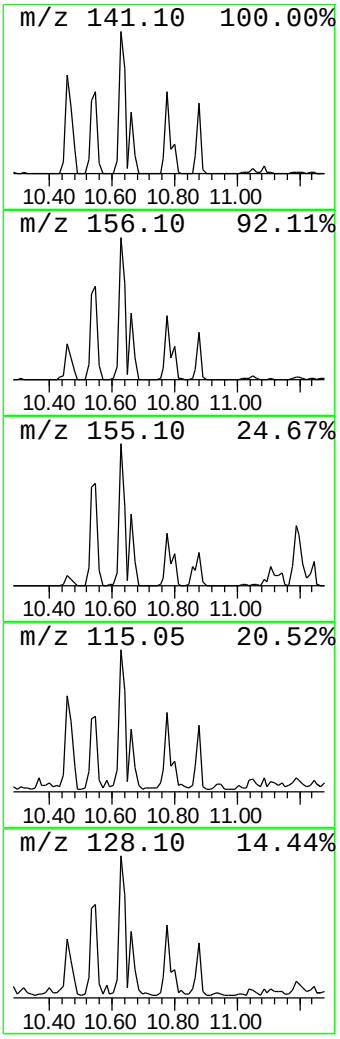
**********

Peak Number 15 Naphthalene, 2,3-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.78 | 20.49 ng | 732525 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 3 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 96 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

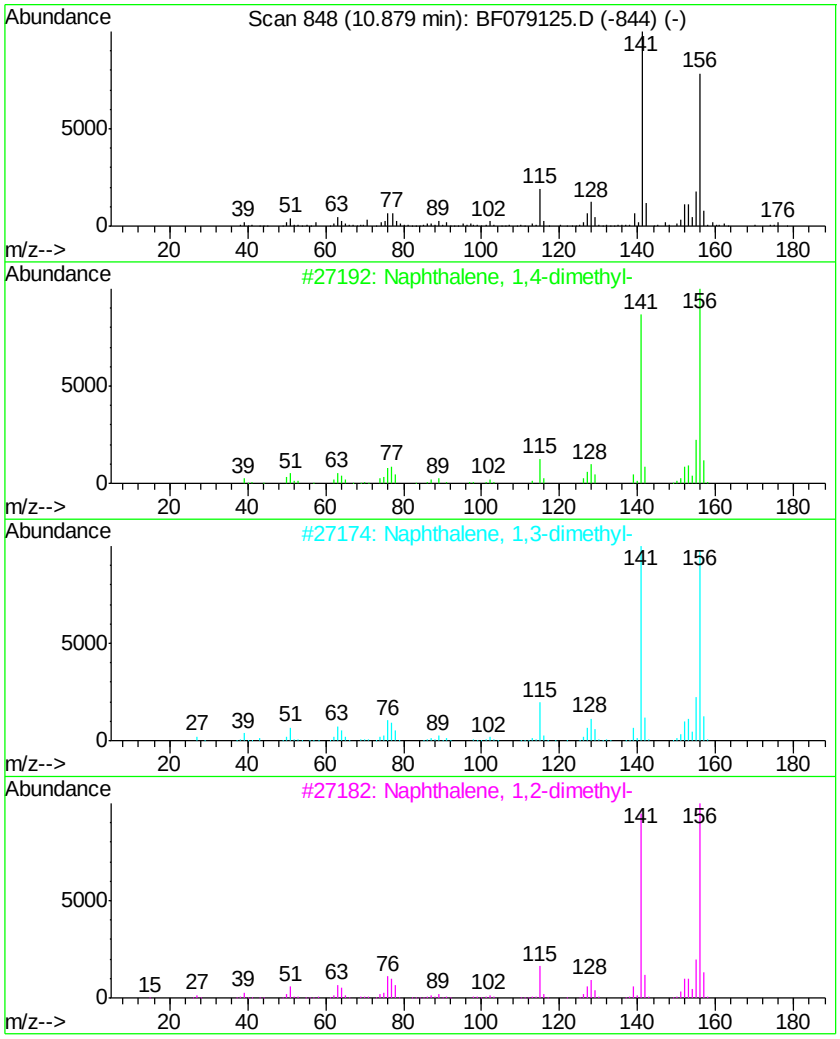
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

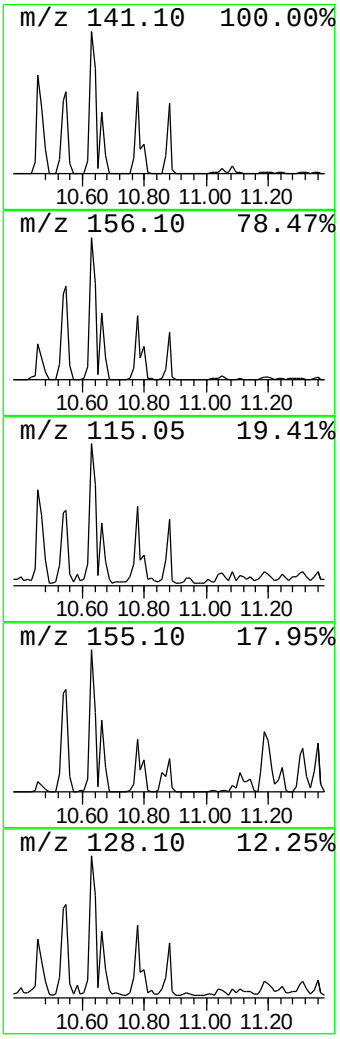
**********

Peak Number 16 Naphthalene, 1,4-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.88 | 14.38 ng | 514215 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 3 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 96 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |
| 5 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 94 |



# Library Search Compound Report

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Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

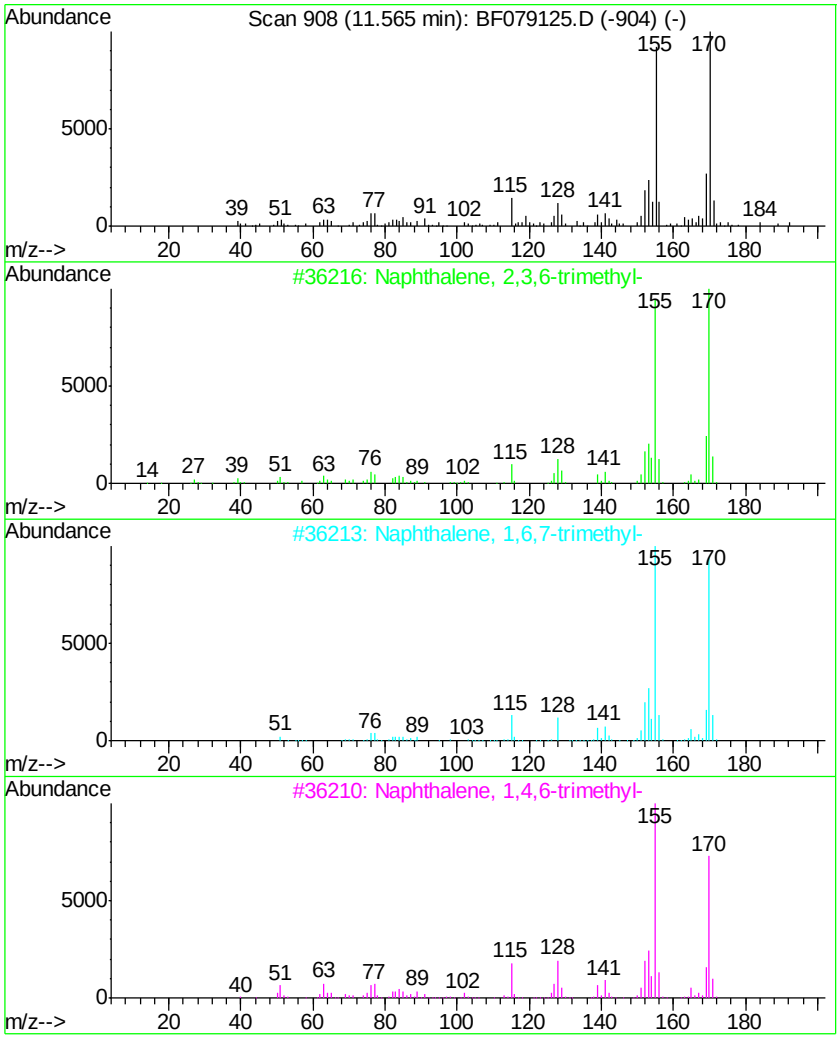
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

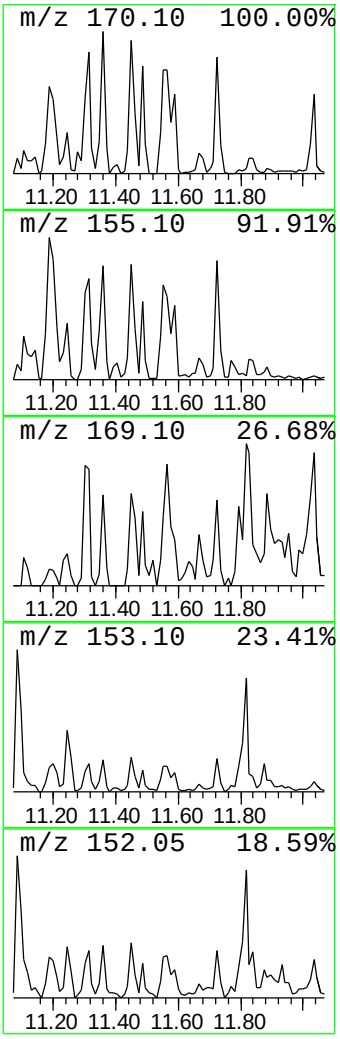
**********

Peak Number 17 Naphthalene, 2,3,6-trimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.57 | 9.46 ng | 338252 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 98 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 98 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 4 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 96 |
| 5 | Azulene, 4,6,8-trimethyl- | 170 | C13H14 | 000941-81-1 | 94 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

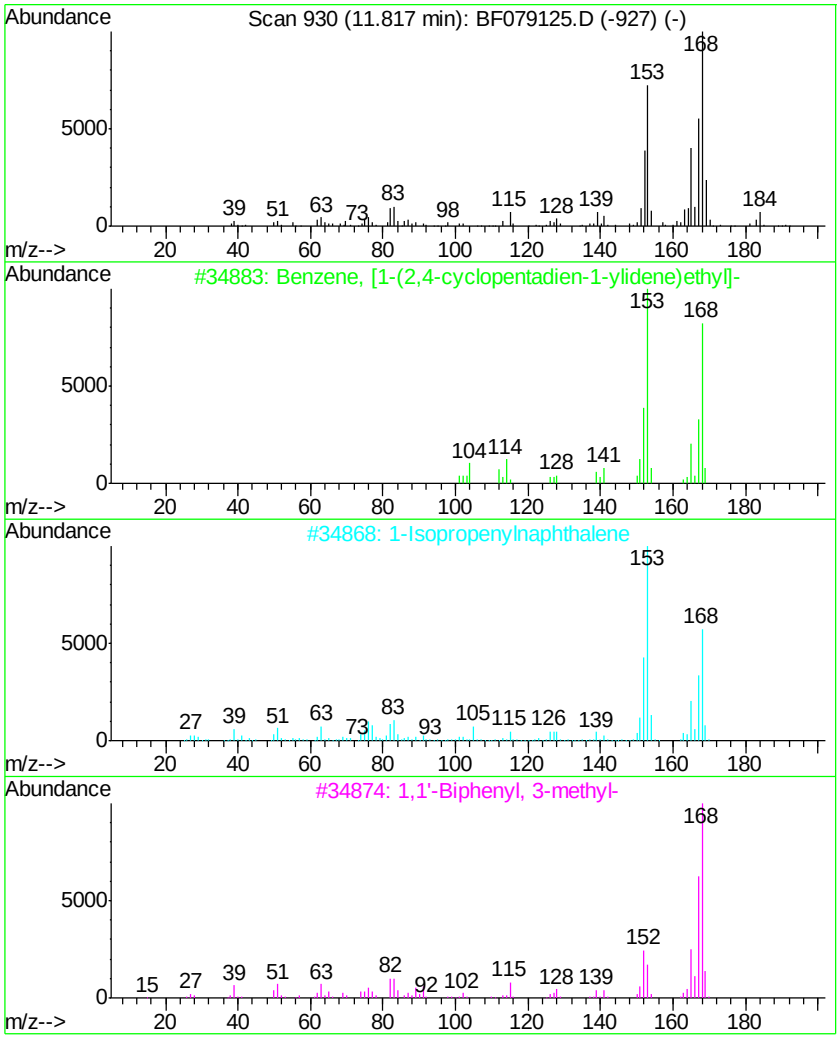
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

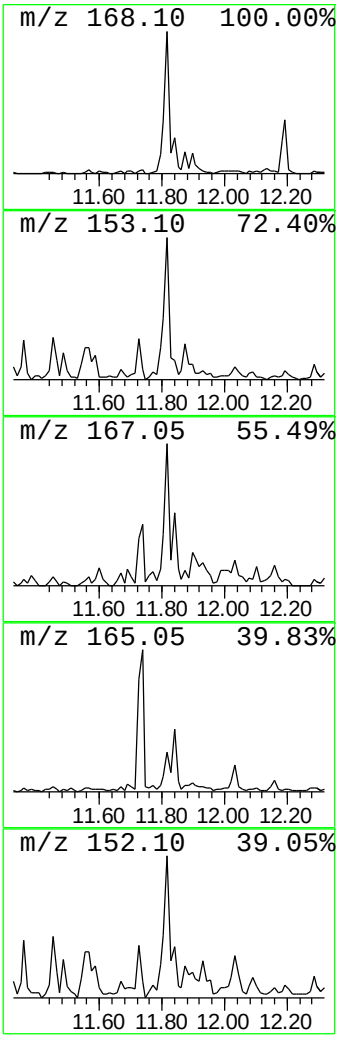
**********

Peak Number 18 Benzene, [1-(2,4-cyclopenta... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.82 | 9.54 ng | 341263 | Acenaphthene-d10 | 11.05 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 64 |
| 2 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 58 |
| 3 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 49 |
| 4 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 49 |
| 5 | Naphthalene, 2-(1-methylethenyl)- | 168 | C13H12 | 003710-23-4 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

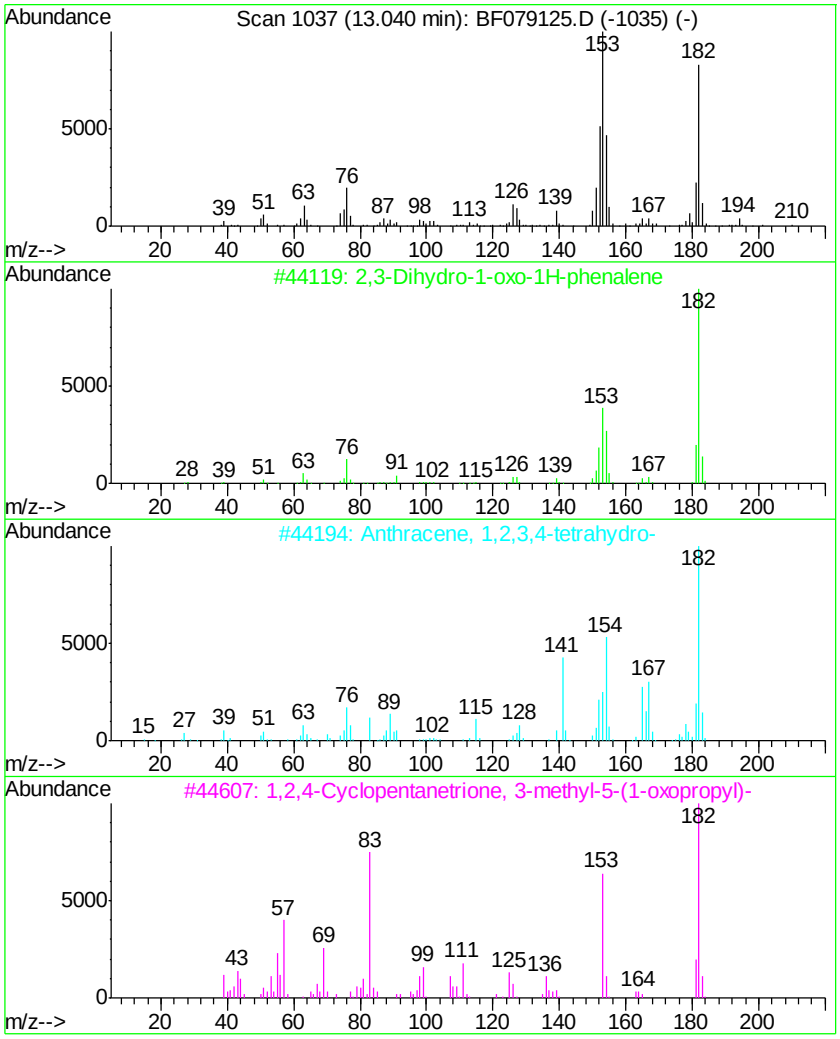
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

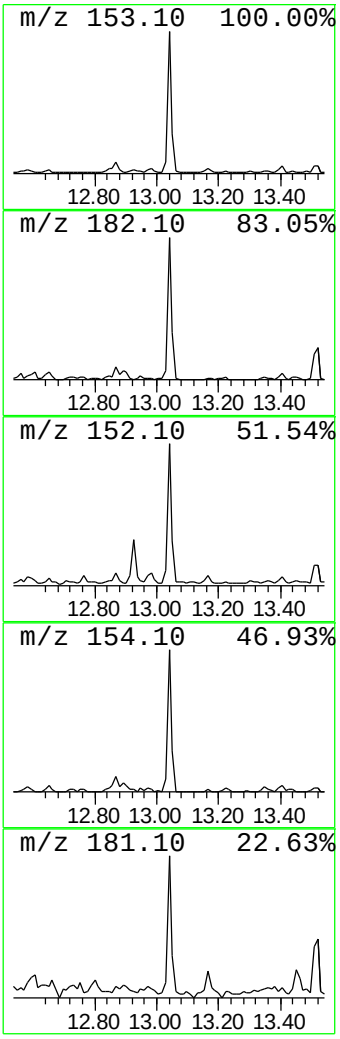
**********

Peak Number 19 2,3-Dihydro-1-oxo-1H-phenalene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.04 | 10.31 ng | 290065 | Phenanthrene-d10 | 12.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,3-Dihydro-1-oxo-1H-phenalene | 182 | C13H10O | 000518-85-4 | 70 |
| 2 | Anthracene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 002141-42-6 | 58 |
| 3 | 1,2,4-Cyclopentanetrione, 3-meth... | 182 | C9H10O4 | 057174-14-8 | 47 |
| 4 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 30 |
| 5 | 9H-Pyrido[3,4-b]indole, 1-methyl- | 182 | C12H10N2 | 000486-84-0 | 27 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

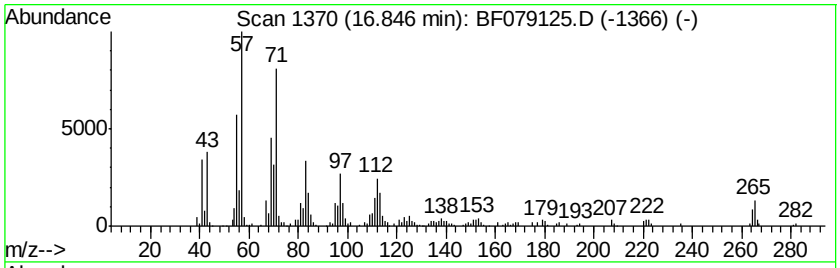
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

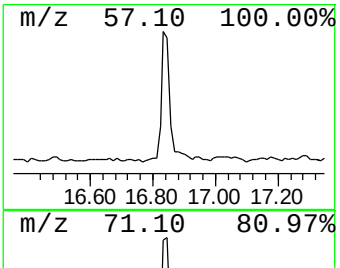
**********

Peak Number 20 Oleic Acid Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.85 | 9.62 ng | 341840 | Chrysene-d12 | 16.19 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oleic Acid | 282 | C18H34O2 | 000112-80-1 | 72 |
| 2 | Nonane, 2,3-dimethyl- | 156 | C11H24 | 002884-06-2 | 47 |
| 3 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 47 |
| 4 | Heptane, 3-ethyl-5-methyl- | 142 | C10H22 | 052896-90-9 | 43 |
| 5 | Octane, 2-bromo- | 192 | C8H17Br | 000557-35-7 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051115\
Data File : BF079125.D
Acq On : 11 May 2015 19:41
Operator : TP/IZ
Sample : G2146-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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 |
| Butane, 2-methoxy... | 1.75 | 68.3 | ng | 1168420 | 1 | 7.30 | 341874 | 20.0 |
| unknown7.00 | 7.00 | 78.2 | ng | 1336130 | 1 | 7.30 | 341874 | 20.0 |
| Indane | 7.52 | 35.1 | ng | 599960 | 1 | 7.30 | 341874 | 20.0 |
| 1H-Indene, 2,3-di... | 8.48 | 7.9 | ng | 305055 | 2 | 8.88 | 770918 | 20.0 |
| Benzene, 2-etheny... | 8.56 | 21.1 | ng | 812859 | 2 | 8.88 | 770918 | 20.0 |
| Benzene, (3-methy... | 9.46 | 8.6 | ng | 333149 | 2 | 8.88 | 770918 | 20.0 |
| Naphthalene, 2-et... | 10.46 | 19.5 | ng | 695949 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 2,6-... | 10.55 | 35.2 | ng | 1257750 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 1,5-... | 10.63 | 39.2 | ng | 1399940 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 1,7-... | 10.66 | 15.6 | ng | 556946 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 2,3-... | 10.78 | 20.5 | ng | 732525 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 1,4-... | 10.88 | 14.4 | ng | 514215 | 3 | 11.05 | 715062 | 20.0 |
| Naphthalene, 2,3,... | 11.57 | 9.5 | ng | 338252 | 3 | 11.05 | 715062 | 20.0 |
| Benzene, [1-(2,4-... | 11.82 | 9.5 | ng | 341263 | 3 | 11.05 | 715062 | 20.0 |
| 2,3-Dihydro-1-oxo... | 13.04 | 10.3 | ng | 290065 | 4 | 12.89 | 562947 | 20.0 |
| Oleic Acid | 16.85 | 9.6 | ng | 341840 | 5 | 16.19 | 710384 | 20.0 |