LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

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-BF030316.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 | 5.144 | 247 | 250 | 258 | rVB | 222950 | 397301 | 7.32% | 0.660% |
| 2 | 5.533 | 281 | 284 | 287 | rVB | 3438850 | 5162802 | 95.06% | 8.577% |
| 3 | 6.562 | 370 | 374 | 376 | rVB | 3898100 | 4972370 | 91.55% | 8.260% |
| 4 | 6.699 | 383 | 386 | 388 | rBV | 4208869 | 5431296 | 100.00% | 9.023% |
| 5 | 6.916 | 403 | 405 | 408 | rBV | 793119 | 1100627 | 20.26% | 1.828% |
| 6 | 7.076 | 417 | 419 | 422 | rVB | 3106319 | 4082981 | 75.18% | 6.783% |
| 7 | 7.487 | 452 | 455 | 457 | rBV | 2773568 | 3250680 | 59.85% | 5.400% |
| 8 | 7.579 | 460 | 463 | 466 | rVB | 100843 | 192991 | 3.55% | 0.321% |
| 9 | 7.933 | 491 | 494 | 498 | rBV | 54644 | 70433 | 1.30% | 0.117% |
| 10 | 8.207 | 515 | 518 | 520 | rBV | 1861850 | 1588723 | 29.25% | 2.639% |
| 11 | 9.282 | 609 | 612 | 615 | rBV | 3692213 | 5424035 | 99.87% | 9.011% |
| 12 | 9.625 | 639 | 642 | 645 | rBV3 | 54509 | 98772 | 1.82% | 0.164% |
| 13 | 9.682 | 645 | 647 | 648 | rBV | 1312034 | 1261120 | 23.22% | 2.095% |
| 14 | 9.899 | 662 | 666 | 667 | rVV | 105527 | 159062 | 2.93% | 0.264% |
| 15 | 9.968 | 669 | 672 | 673 | rVV | 1614940 | 1653052 | 30.44% | 2.746% |
| 16 | 9.991 | 673 | 674 | 676 | rVB | 72985 | 79631 | 1.47% | 0.132% |
| 17 | 10.162 | 687 | 689 | 692 | rVV3 | 75874 | 115058 | 2.12% | 0.191% |
| 18 | 10.368 | 705 | 707 | 708 | rBV | 78521 | 83580 | 1.54% | 0.139% |
| 19 | 10.391 | 708 | 709 | 711 | rVB | 217071 | 187705 | 3.46% | 0.312% |
| 20 | 10.505 | 718 | 719 | 722 | rVB | 84604 | 99685 | 1.84% | 0.166% |
| 21 | 10.608 | 726 | 728 | 732 | rBV2 | 60485 | 137583 | 2.53% | 0.229% |
| 22 | 10.756 | 738 | 741 | 743 | rBV | 3211725 | 3264689 | 60.11% | 5.423% |
| 23 | 10.871 | 749 | 751 | 755 | rBV | 182322 | 288189 | 5.31% | 0.479% |
| 24 | 11.053 | 765 | 767 | 771 | rBV4 | 46908 | 98800 | 1.82% | 0.164% |
| 25 | 11.316 | 786 | 790 | 791 | rBV2 | 135696 | 166996 | 3.07% | 0.277% |
| 26 | 11.339 | 791 | 792 | 795 | rVB | 91652 | 112396 | 2.07% | 0.187% |
| 27 | 11.454 | 799 | 802 | 805 | rBV | 1374794 | 2591678 | 47.72% | 4.305% |
| 28 | 11.522 | 805 | 808 | 810 | rVB | 299132 | 289491 | 5.33% | 0.481% |
| 29 | 11.671 | 818 | 821 | 825 | rBV2 | 285858 | 348671 | 6.42% | 0.579% |
| 30 | 11.739 | 825 | 827 | 829 | rVB | 110710 | 91118 | 1.68% | 0.151% |
| 31 | 11.774 | 829 | 830 | 833 | rVB | 40651 | 56822 | 1.05% | 0.094% |
| 32 | 11.842 | 833 | 836 | 839 | rVB2 | 25397 | 59843 | 1.10% | 0.099% |
| 33 | 11.979 | 843 | 848 | 850 | rBV | 556712 | 809975 | 14.91% | 1.346% |
| 34 | 12.025 | 850 | 852 | 853 | rVB2 | 81182 | 73820 | 1.36% | 0.123% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

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-BF030316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.059 | 853 | 855 | 859 | rVB2 | 277649 | 414586 | 7.63% | 0.689% |
| 36 | 12.151 | 859 | 863 | 864 | rBV | 70921 | 107688 | 1.98% | 0.179% |
| 37 | 12.242 | 867 | 871 | 872 | rBV | 131265 | 183166 | 3.37% | 0.304% |
| 38 | 12.391 | 881 | 884 | 886 | rBV2 | 54707 | 77246 | 1.42% | 0.128% |
| 39 | 12.425 | 886 | 887 | 890 | rVB | 59133 | 76419 | 1.41% | 0.127% |
| 40 | 12.494 | 890 | 893 | 895 | rBV | 116127 | 170842 | 3.15% | 0.284% |
| 41 | 12.539 | 895 | 897 | 899 | rVV | 97278 | 149796 | 2.76% | 0.249% |
| 42 | 12.585 | 899 | 901 | 904 | rVV2 | 74094 | 91077 | 1.68% | 0.151% |
| 43 | 12.665 | 905 | 908 | 910 | rVV | 1212367 | 1298530 | 23.91% | 2.157% |
| 44 | 12.722 | 910 | 913 | 914 | rVV2 | 37909 | 77157 | 1.42% | 0.128% |
| 45 | 12.757 | 914 | 916 | 920 | rVV2 | 190220 | 262808 | 4.84% | 0.437% |
| 46 | 12.894 | 923 | 928 | 930 | rVV | 968136 | 1408681 | 25.94% | 2.340% |
| 47 | 12.939 | 930 | 932 | 934 | rVB3 | 64493 | 102472 | 1.89% | 0.170% |
| 48 | 13.042 | 938 | 941 | 943 | rVB | 2828300 | 4058311 | 74.72% | 6.742% |
| 49 | 13.111 | 943 | 947 | 951 | rBV3 | 79069 | 136711 | 2.52% | 0.227% |
| 50 | 13.214 | 953 | 956 | 958 | rVV | 135655 | 202559 | 3.73% | 0.337% |
| 51 | 13.282 | 961 | 962 | 963 | rVV | 107572 | 78746 | 1.45% | 0.131% |
| 52 | 13.317 | 963 | 965 | 969 | rVB2 | 122604 | 186405 | 3.43% | 0.310% |
| 53 | 13.408 | 972 | 973 | 975 | rBV | 51660 | 68316 | 1.26% | 0.113% |
| 54 | 13.442 | 975 | 976 | 978 | rVB | 74031 | 60188 | 1.11% | 0.100% |
| 55 | 13.557 | 985 | 986 | 988 | rVB | 89282 | 71155 | 1.31% | 0.118% |
| 56 | 13.602 | 988 | 990 | 991 | rBV2 | 39844 | 59220 | 1.09% | 0.098% |
| 57 | 13.717 | 998 | 1000 | 1003 | rVB | 72689 | 113613 | 2.09% | 0.189% |
| 58 | 13.831 | 1007 | 1010 | 1012 | rBV | 90306 | 161723 | 2.98% | 0.269% |
| 59 | 13.865 | 1012 | 1013 | 1014 | rVV | 85711 | 77198 | 1.42% | 0.128% |
| 60 | 13.922 | 1017 | 1018 | 1023 | rVB | 377193 | 453429 | 8.35% | 0.753% |
| 61 | 14.082 | 1029 | 1032 | 1038 | rVB2 | 1083887 | 1859656 | 34.24% | 3.089% |
| 62 | 14.185 | 1039 | 1041 | 1043 | rBV2 | 44777 | 73726 | 1.36% | 0.122% |
| 63 | 14.471 | 1064 | 1066 | 1068 | rVB | 84764 | 76509 | 1.41% | 0.127% |
| 64 | 14.562 | 1071 | 1074 | 1076 | rVV3 | 75110 | 128031 | 2.36% | 0.213% |
| 65 | 14.597 | 1076 | 1077 | 1080 | rVB2 | 56528 | 81031 | 1.49% | 0.135% |
| 66 | 14.665 | 1080 | 1083 | 1086 | rVB4 | 40143 | 75248 | 1.39% | 0.125% |
| 67 | 14.837 | 1096 | 1098 | 1102 | rVV | 255380 | 323572 | 5.96% | 0.538% |
| 68 | 14.928 | 1104 | 1106 | 1113 | rVB3 | 59364 | 140660 | 2.59% | 0.234% |
| 69 | 15.122 | 1120 | 1123 | 1127 | rBV | 323609 | 693921 | 12.78% | 1.153% |
| 70 | 15.191 | 1127 | 1129 | 1130 | rVV | 83679 | 90125 | 1.66% | 0.150% |
| 71 | 15.225 | 1130 | 1132 | 1134 | rVB | 86390 | 101067 | 1.86% | 0.168% |

LSC Area Percent Report

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Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

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-BF030316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.420 | 1146 | 1149 | 1152 | rVB | 217791 | 288886 | 5.32% | 0.480% |
| 73 | 15.477 | 1152 | 1154 | 1157 | rBV | 315133 | 408955 | 7.53% | 0.679% |
| 74 | 15.545 | 1157 | 1160 | 1167 | rVB | 671084 | 1048114 | 19.30% | 1.741% |
| 75 | 16.003 | 1198 | 1200 | 1202 | rBV | 39010 | 55339 | 1.02% | 0.092% |
| 76 | 16.985 | 1282 | 1286 | 1291 | rVB2 | 139857 | 300000 | 5.52% | 0.498% |
| 77 | 17.157 | 1299 | 1301 | 1304 | rBV | 36334 | 71154 | 1.31% | 0.118% |
| 78 | 17.420 | 1321 | 1324 | 1332 | rVB | 111701 | 240707 | 4.43% | 0.400% |
| 79 | 17.568 | 1334 | 1337 | 1341 | rVV5 | 45968 | 115060 | 2.12% | 0.191% |
| 80 | 17.660 | 1342 | 1345 | 1349 | rVB | 30116 | 73738 | 1.36% | 0.122% |

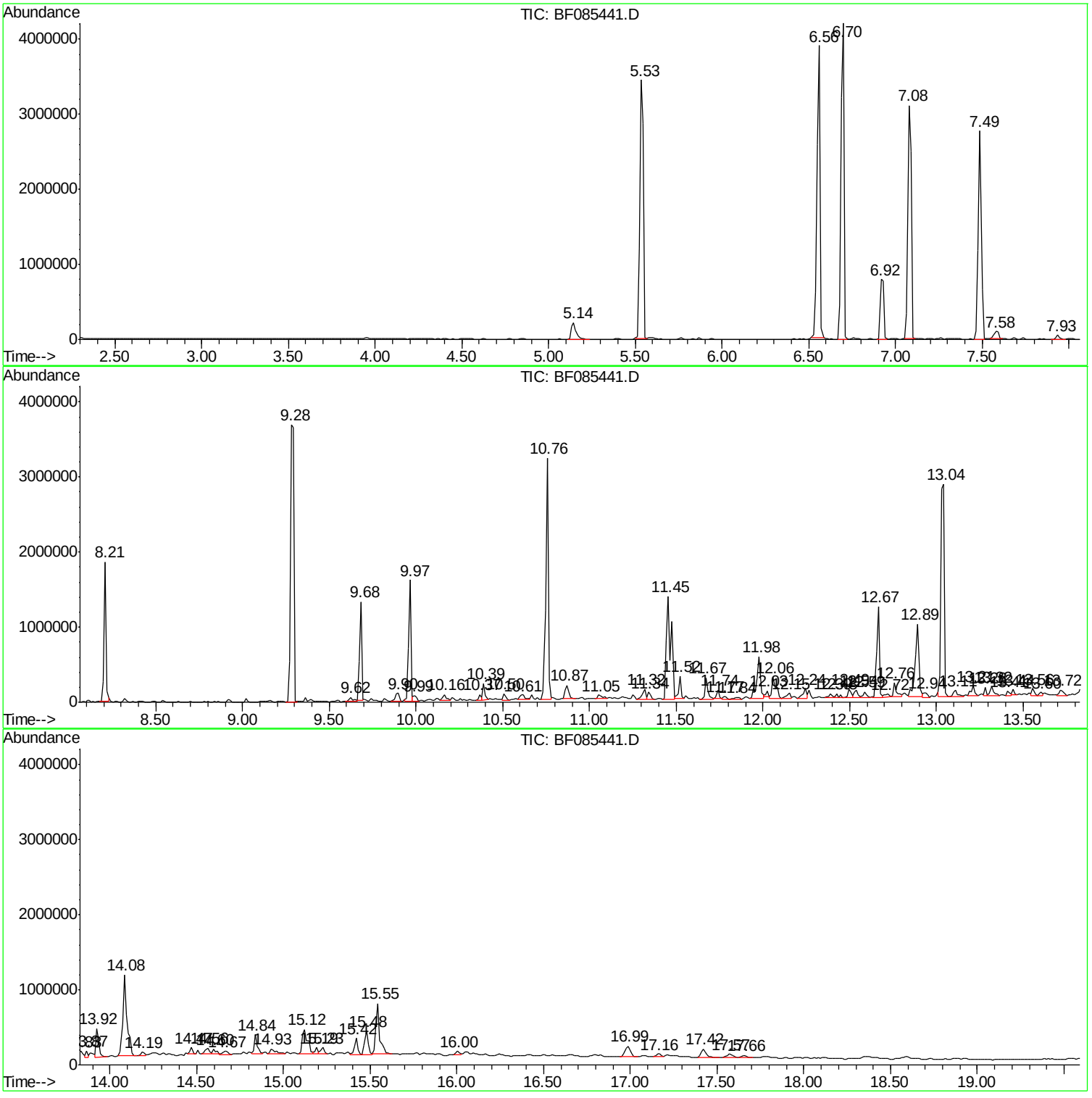
Sum of corrected areas: 60195516

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.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\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

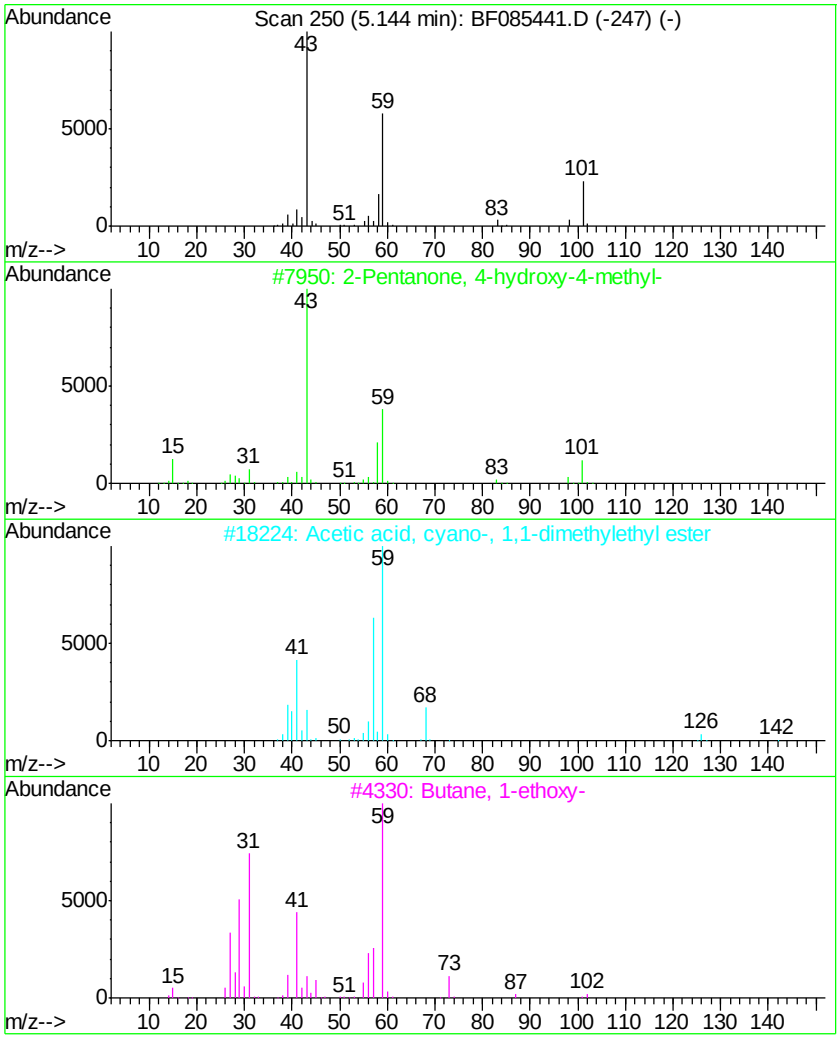
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

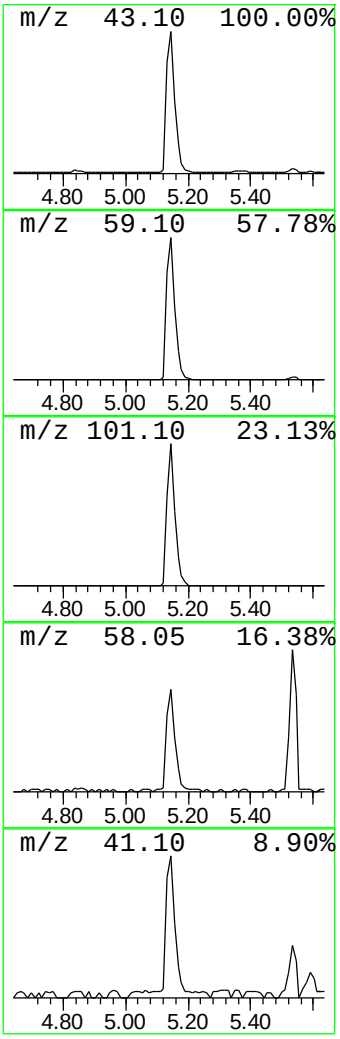
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.14 | 7.22 ng | 397301 | 1,4-Dichlorobenzene-d4 | 6.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |
| 4 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

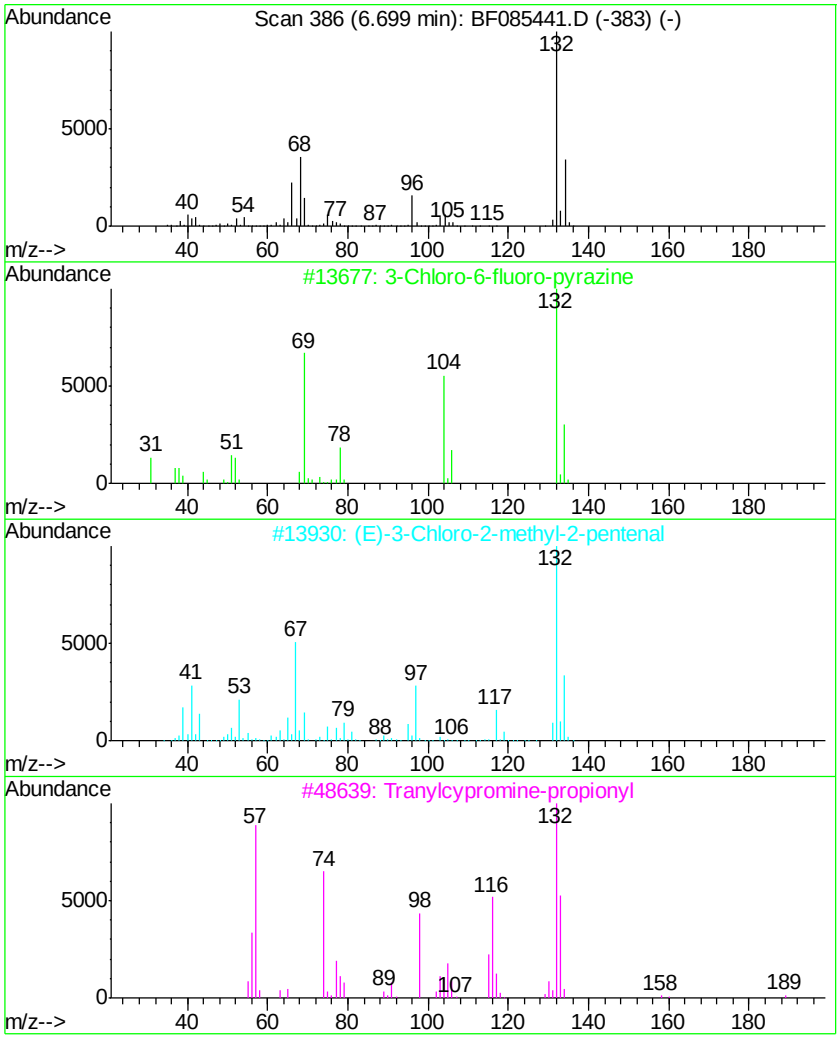
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

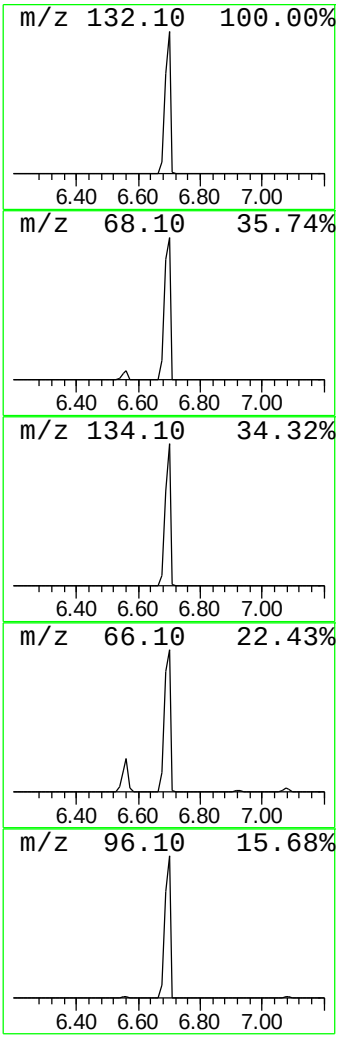
**********

Peak Number 2 unknown6.70 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.70 | 98.69 ng | 5431300 | 1,4-Dichlorobenzene-d4 | 6.93 |

| 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 | 17 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 10 |
| 5 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |



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Data File : BF085441.D
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Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

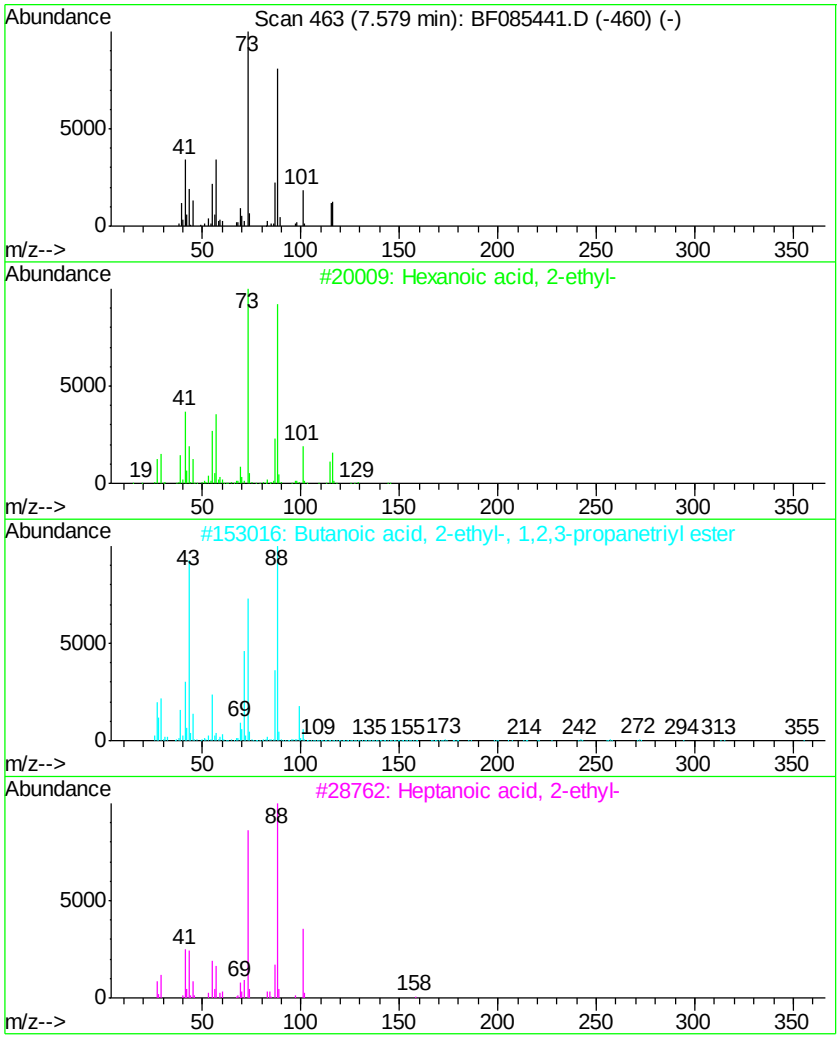
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

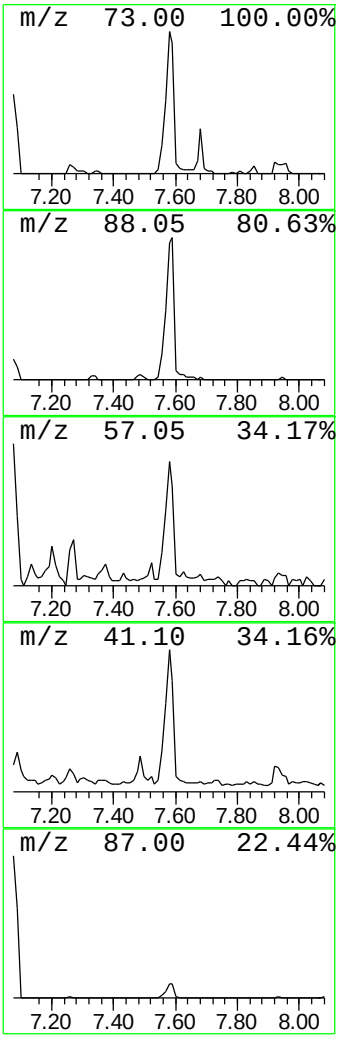
**********

Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.58 | 2.43 ng | 192991 | Naphthalene-d8 | 8.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 90 |
| 2 | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2 | 59 |
| 3 | Heptanoic acid, 2-ethyl- | 158 | C9H18O2 | 003274-29-1 | 40 |
| 4 | Octanoic acid, 2-methyl-, methyl... | 172 | C10H20O2 | 002177-86-8 | 38 |
| 5 | 1,4-Dioxane | 88 | C4H8O2 | 000123-91-1 | 38 |



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Data File : BF085441.D
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Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

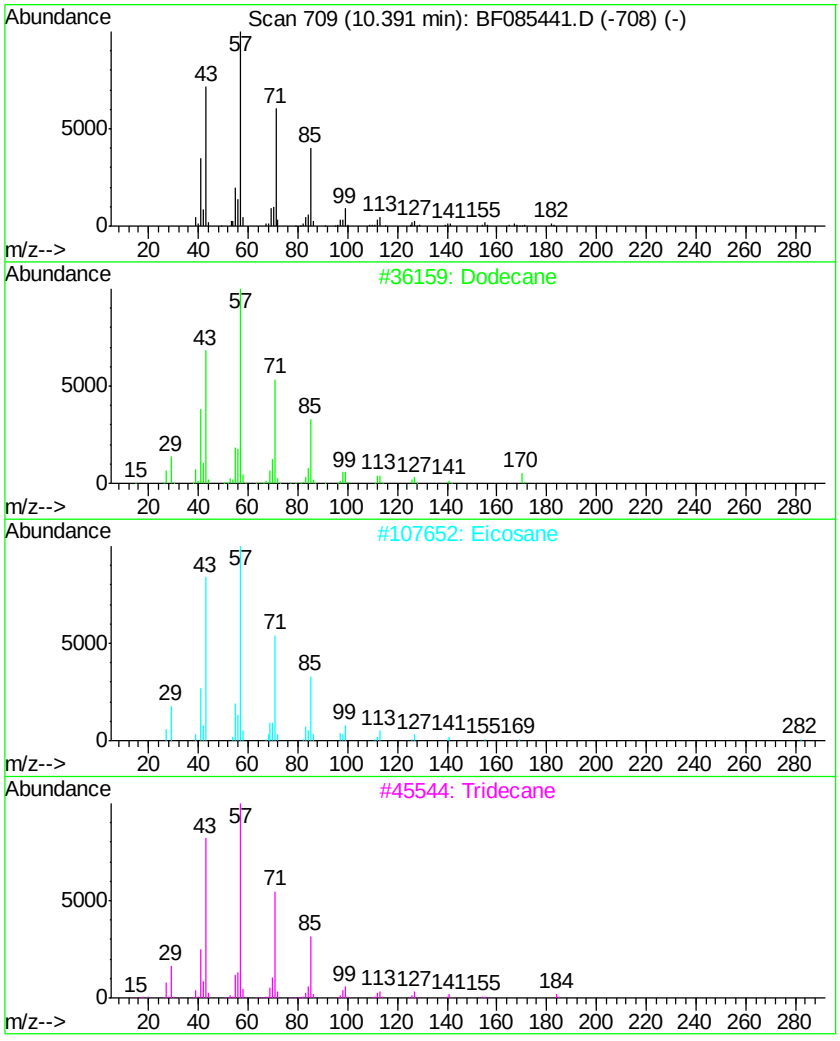
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

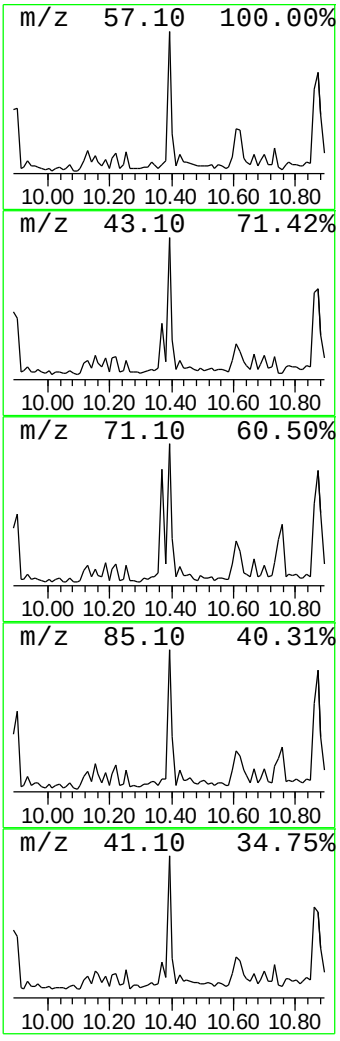
**********

Peak Number 5 Dodecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.39 | 2.27 ng | 187705 | Acenaphthene-d10 | 9.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 91 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 91 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 5 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

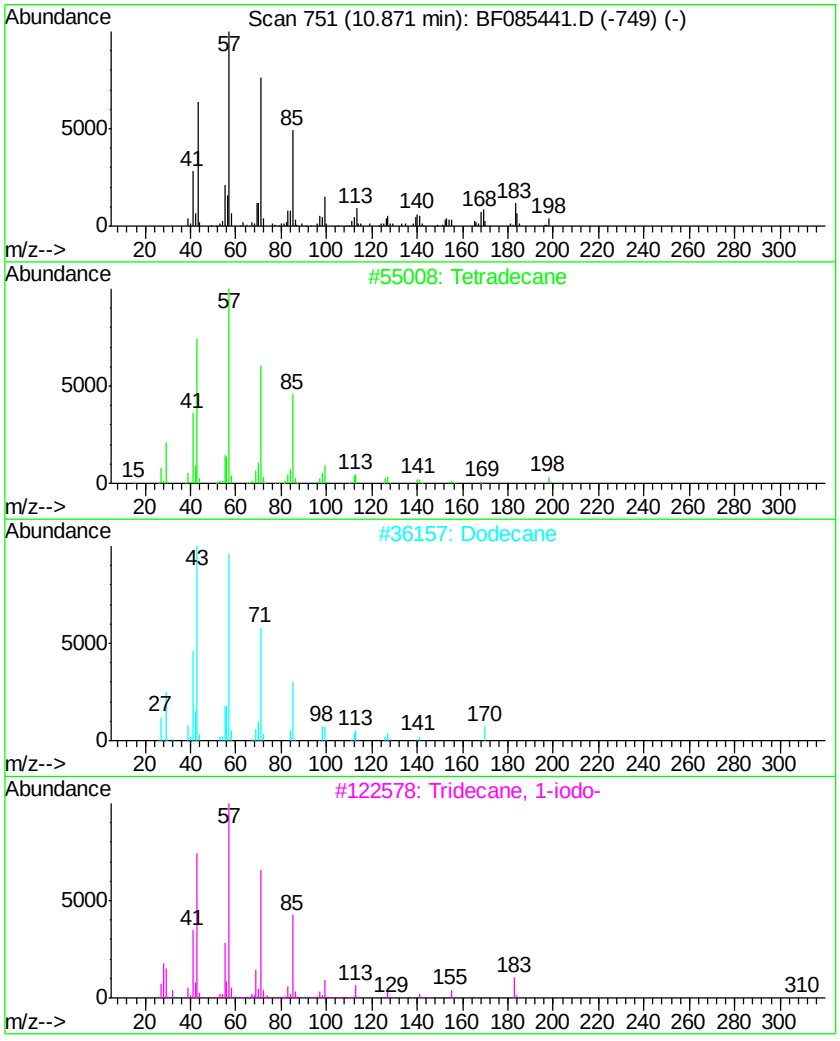
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

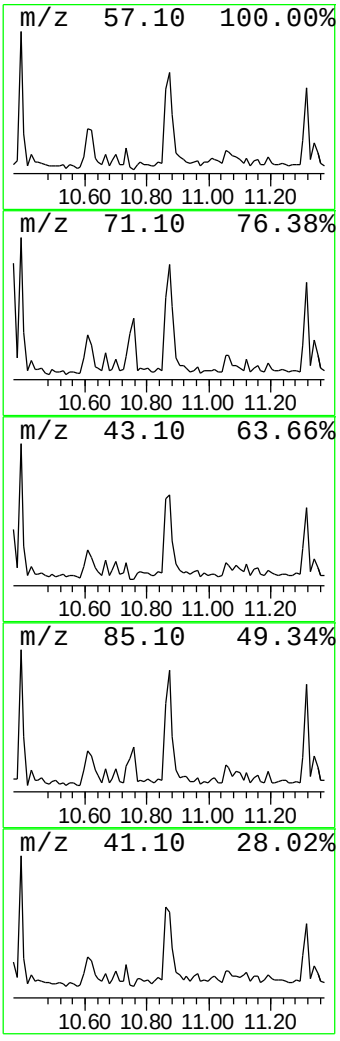
**********

Peak Number 6 Tetradecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.87 | 2.22 ng | 288189 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 91 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 91 |
| 3 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 86 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 83 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

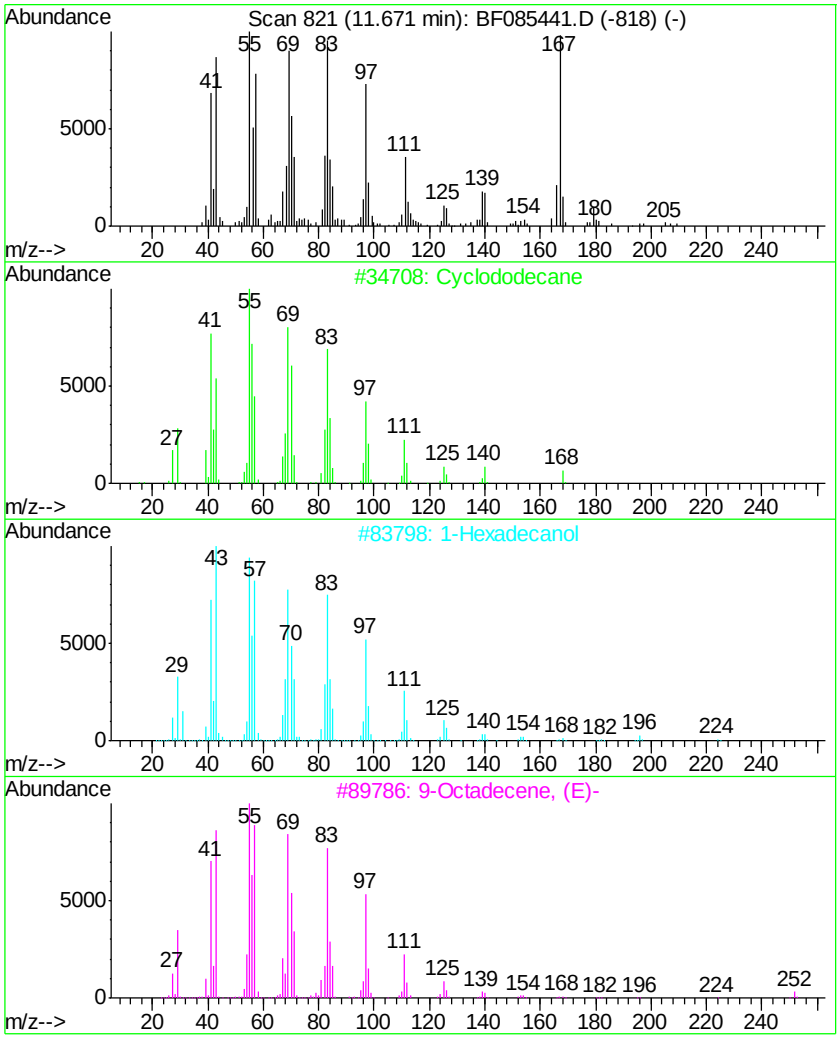
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

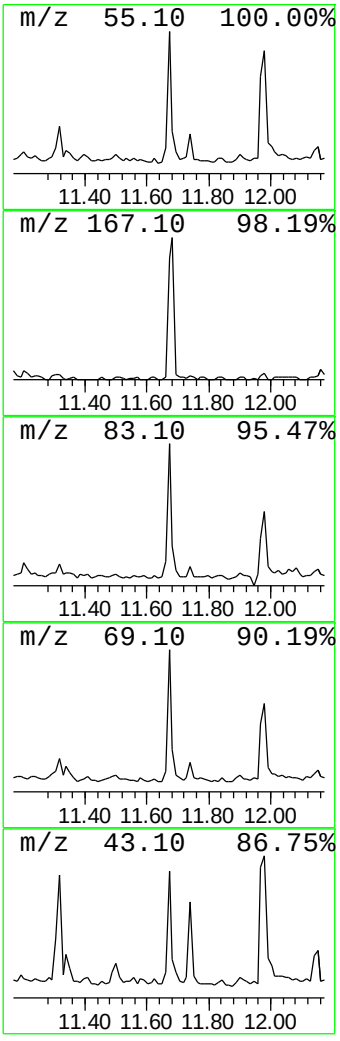
**********

Peak Number 7 Cyclododecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.67 | 2.69 ng | 348671 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclododecane | 168 | C12H24 | 000294-62-2 | 97 |
| 2 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 89 |
| 3 | 9-Octadecene, (E)- | 252 | C18H36 | 007206-25-9 | 76 |
| 4 | 1-Pentadecanol | 228 | C15H32O | 000629-76-5 | 76 |
| 5 | 5-Octadecene, (E)- | 252 | C18H36 | 007206-21-5 | 76 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

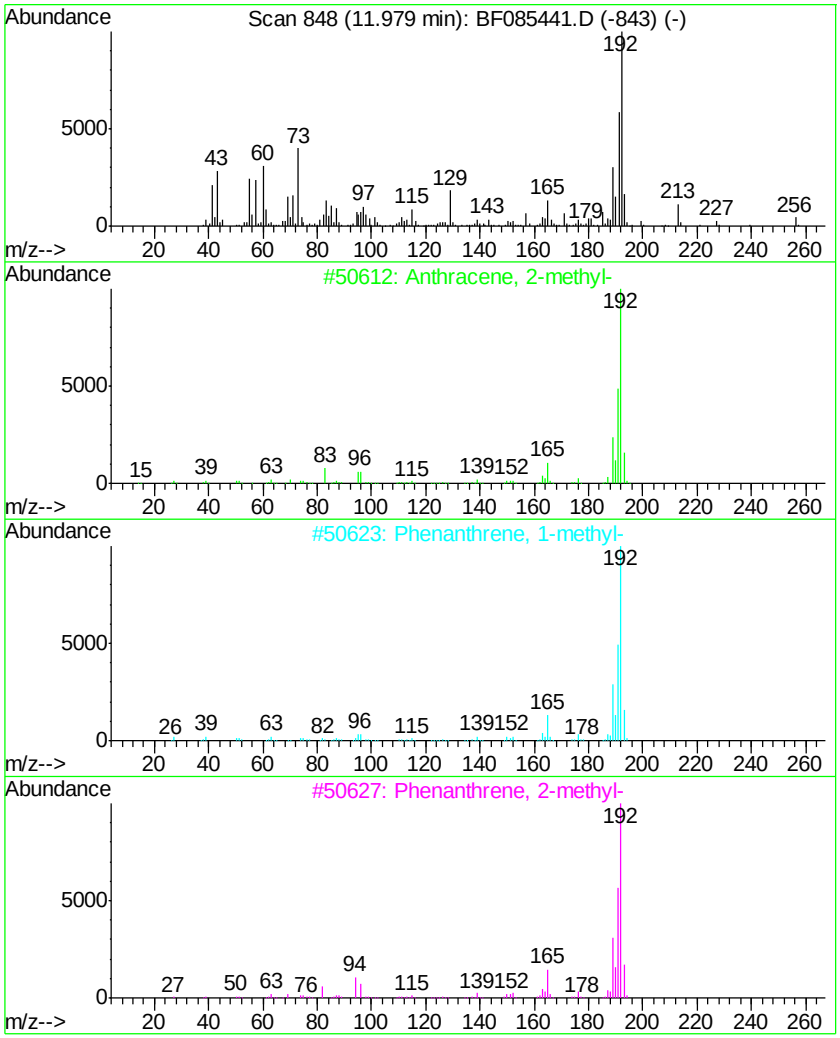
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

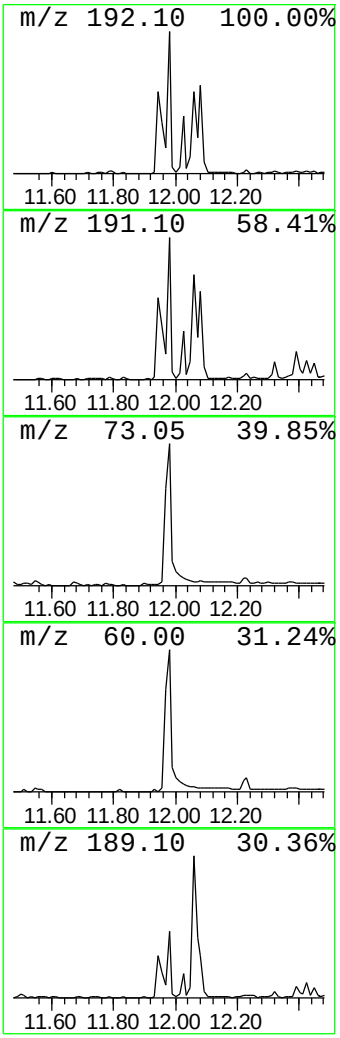
**********

Peak Number 8 Anthracene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.98 | 6.25 ng | 809975 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 97 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

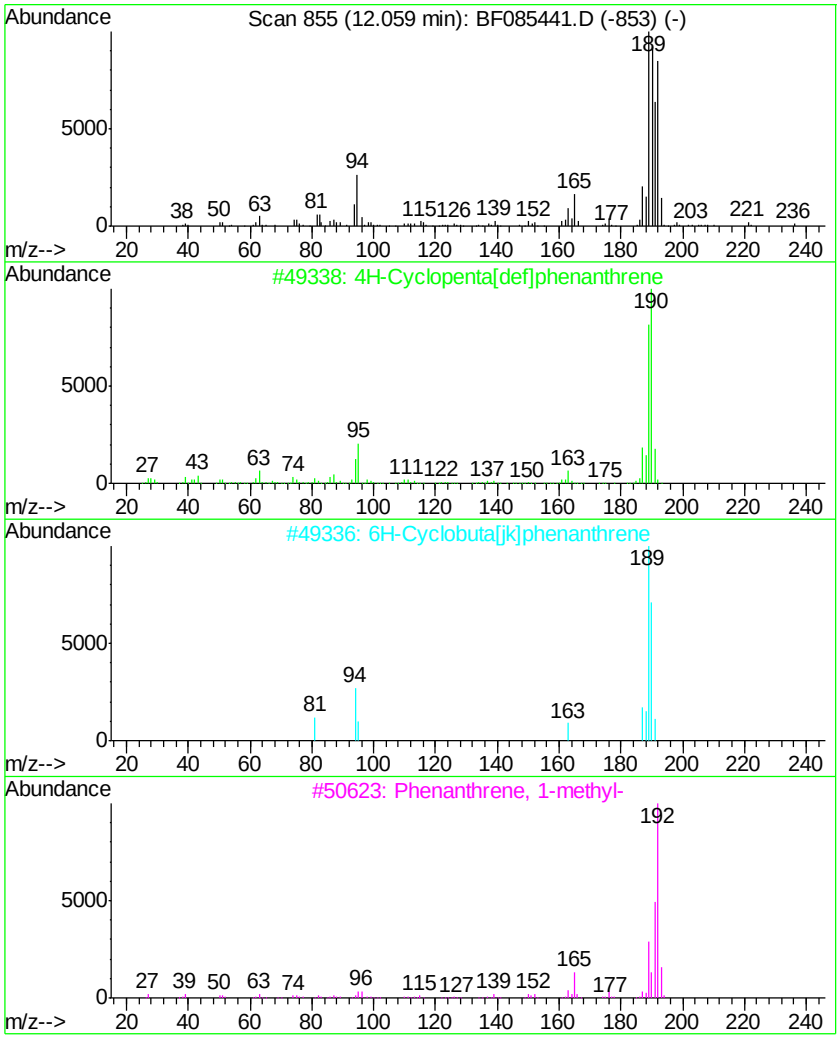
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

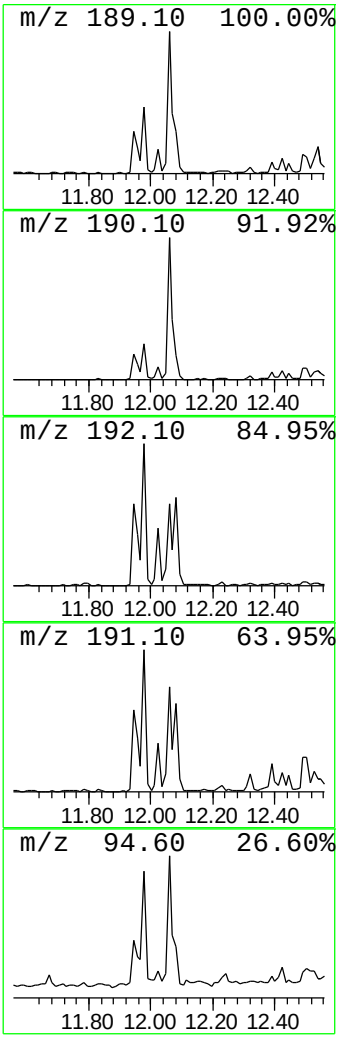
**********

Peak Number 9 unknown12.06 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.06 | 3.20 ng | 414586 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 42 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 41 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 41 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

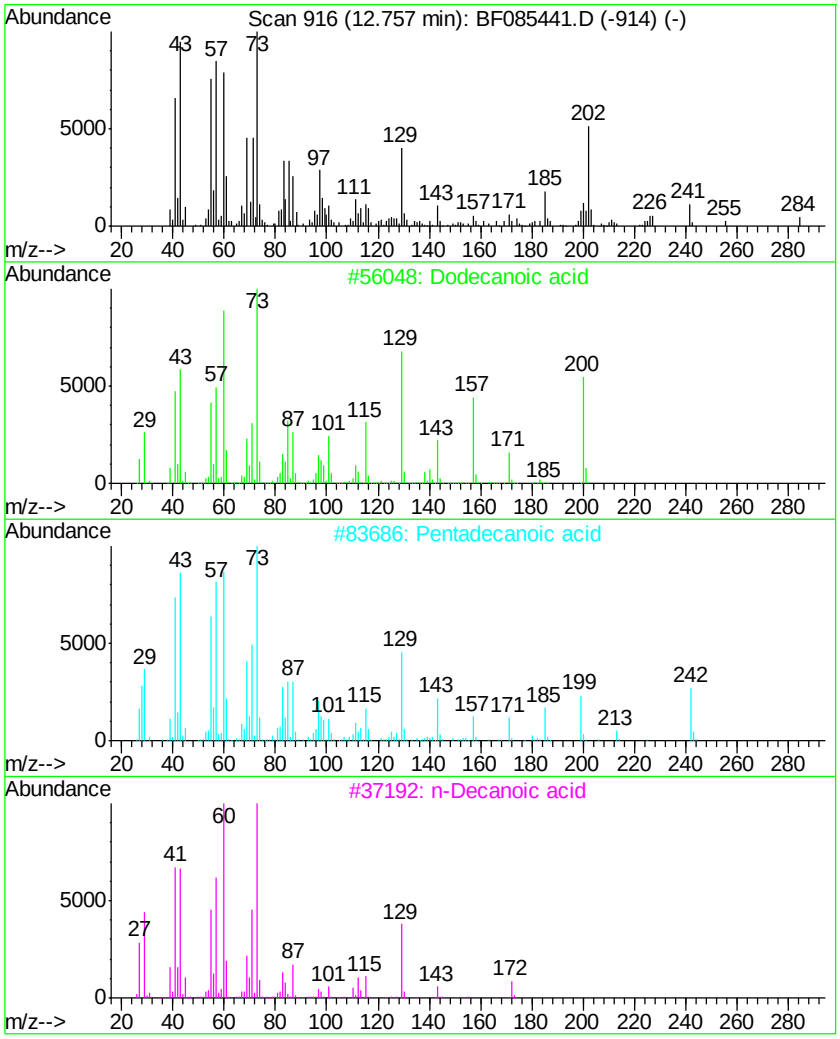
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

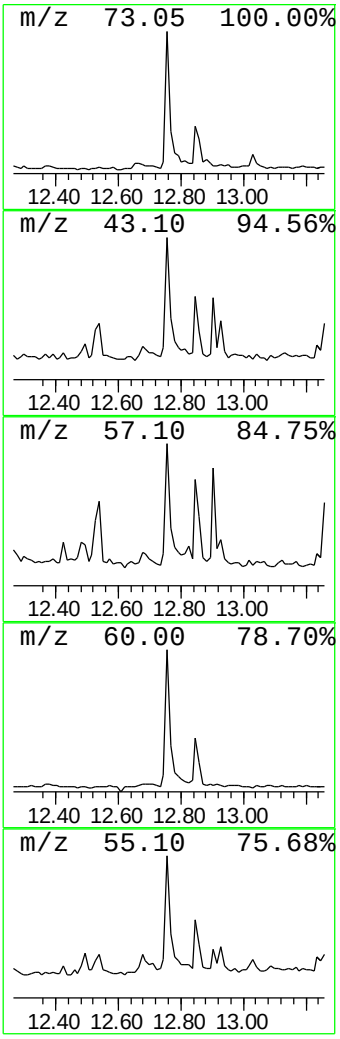
**********

Peak Number 10 Dodecanoic acid Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.76 | 2.03 ng | 262808 | Phenanthrene-d10 | 11.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 83 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 81 |
| 3 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 58 |
| 4 | Undecanoic acid | 186 | C11H22O2 | 000112-37-8 | 55 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 25 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.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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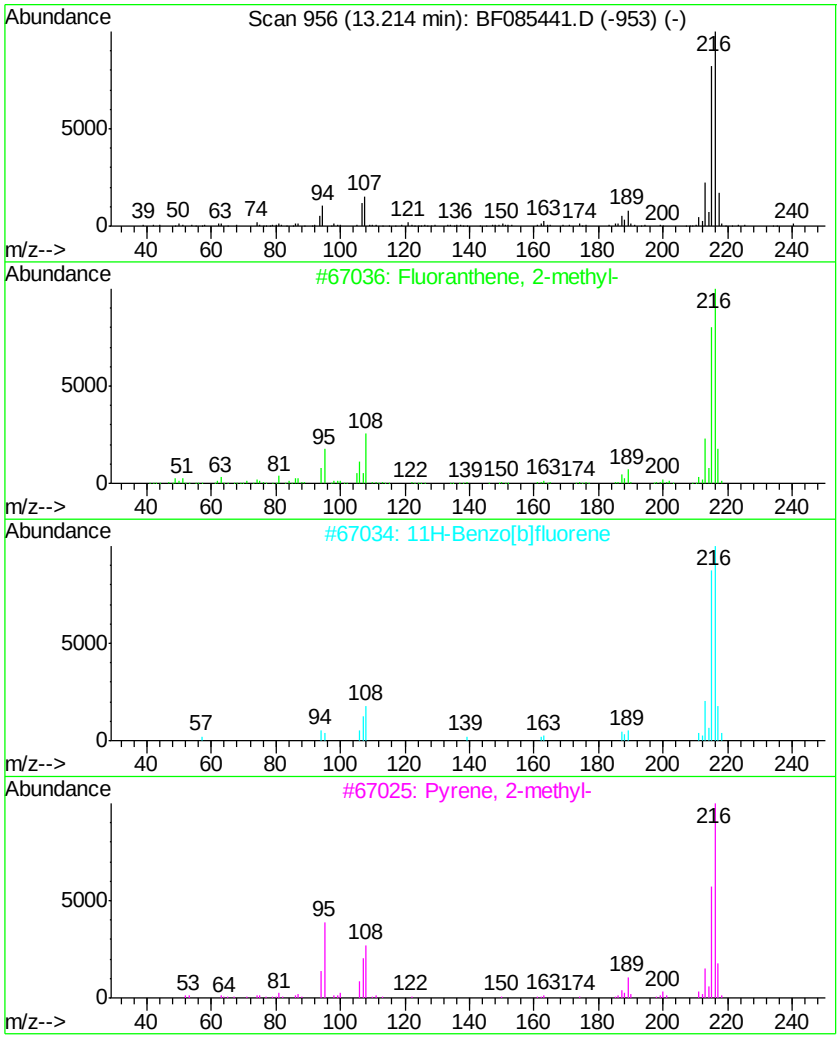
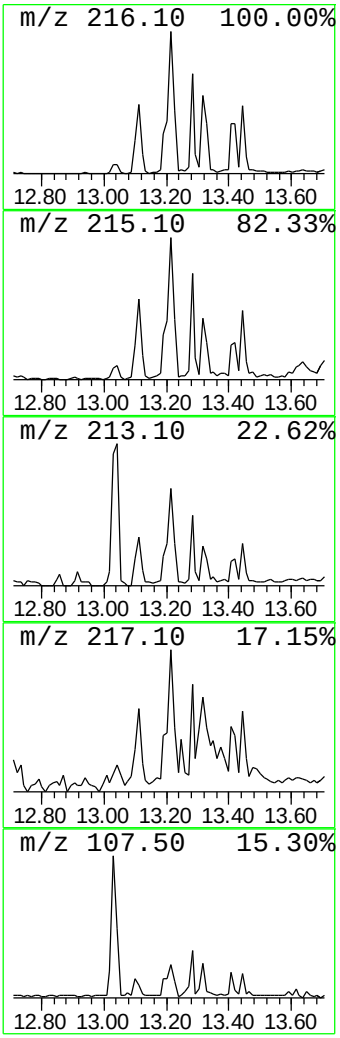
Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.21 | 2.18 ng | 202559 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 93 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.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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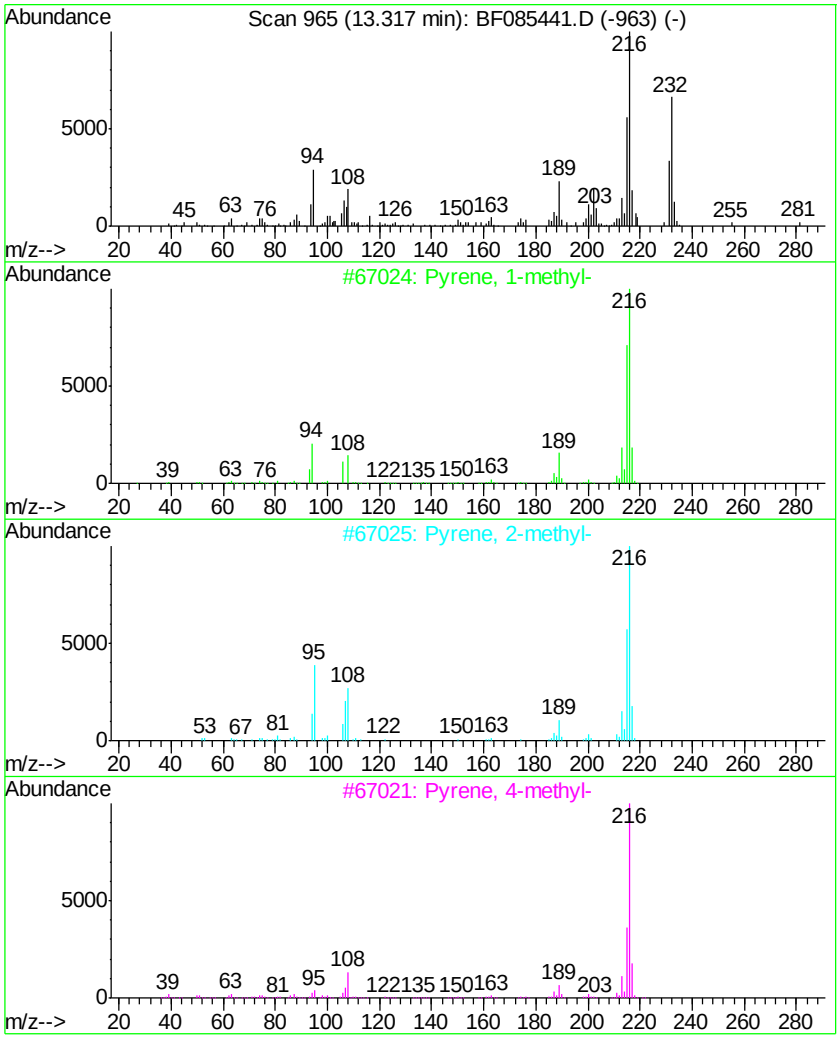
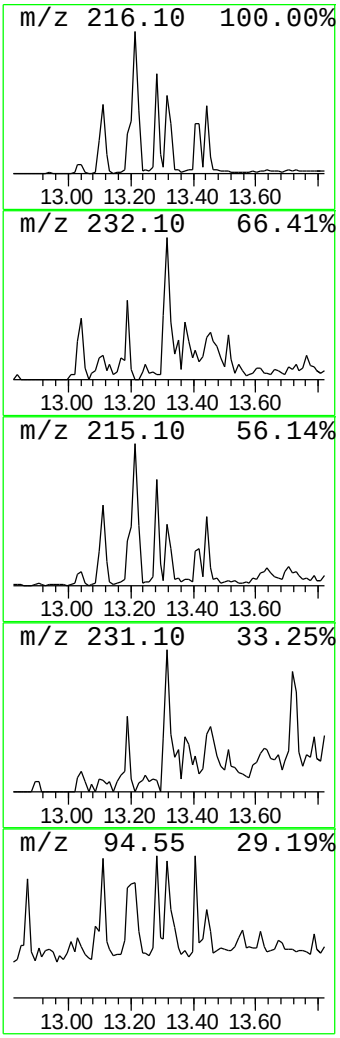
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.32 | 2.00 ng | 186405 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 78 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 64 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 49 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 46 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

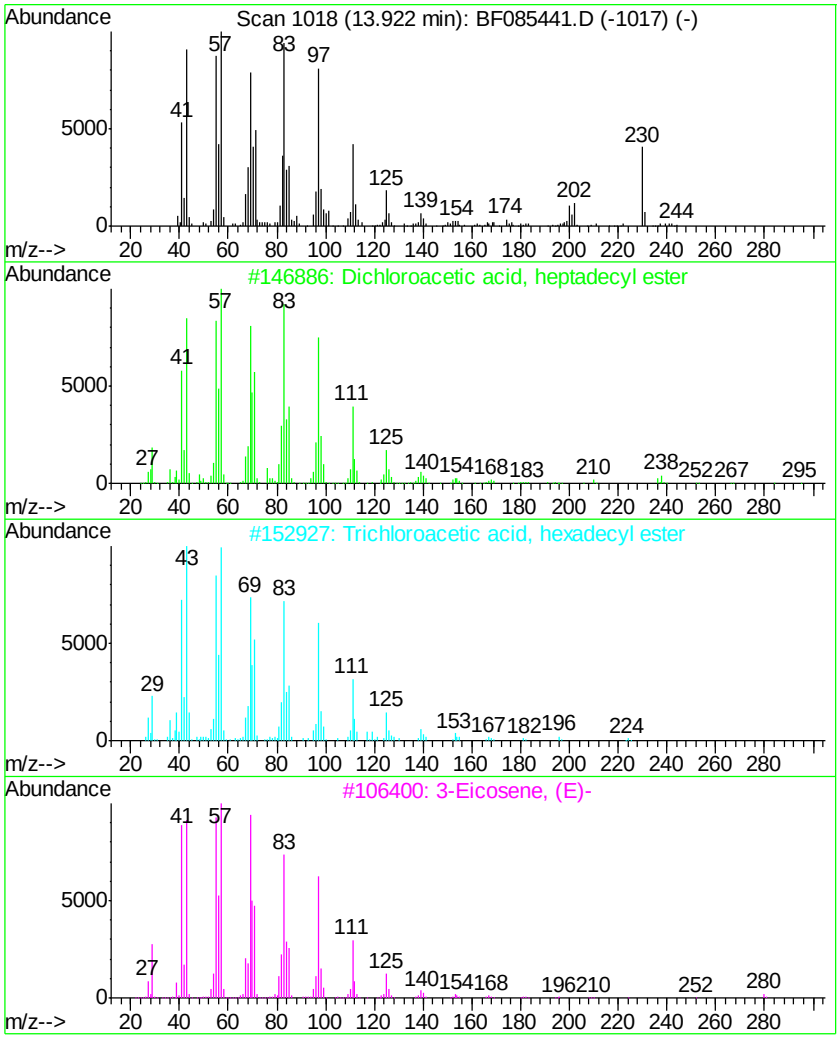
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

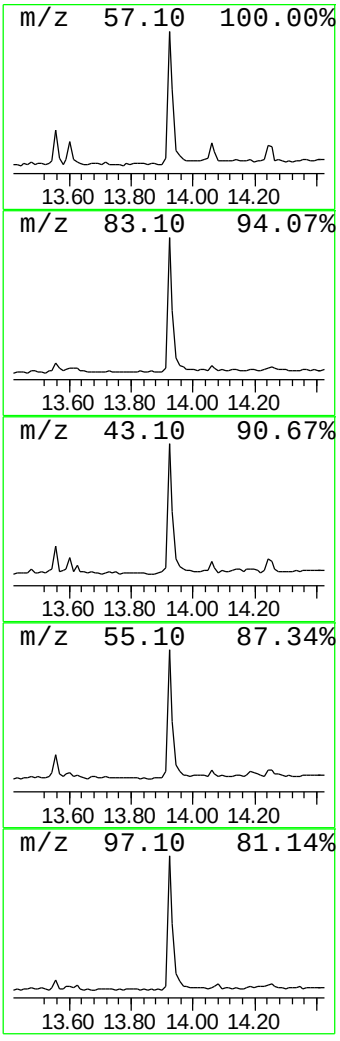
**********

Peak Number 13 Dichloroacetic acid, heptad... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.92 | 4.88 ng | 453429 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 93 |
| 2 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 93 |
| 3 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 90 |
| 4 | Heptafluorobutyric acid, n-penta... | 424 | C19H31F7O2 | 1000216-79-3 | 90 |
| 5 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

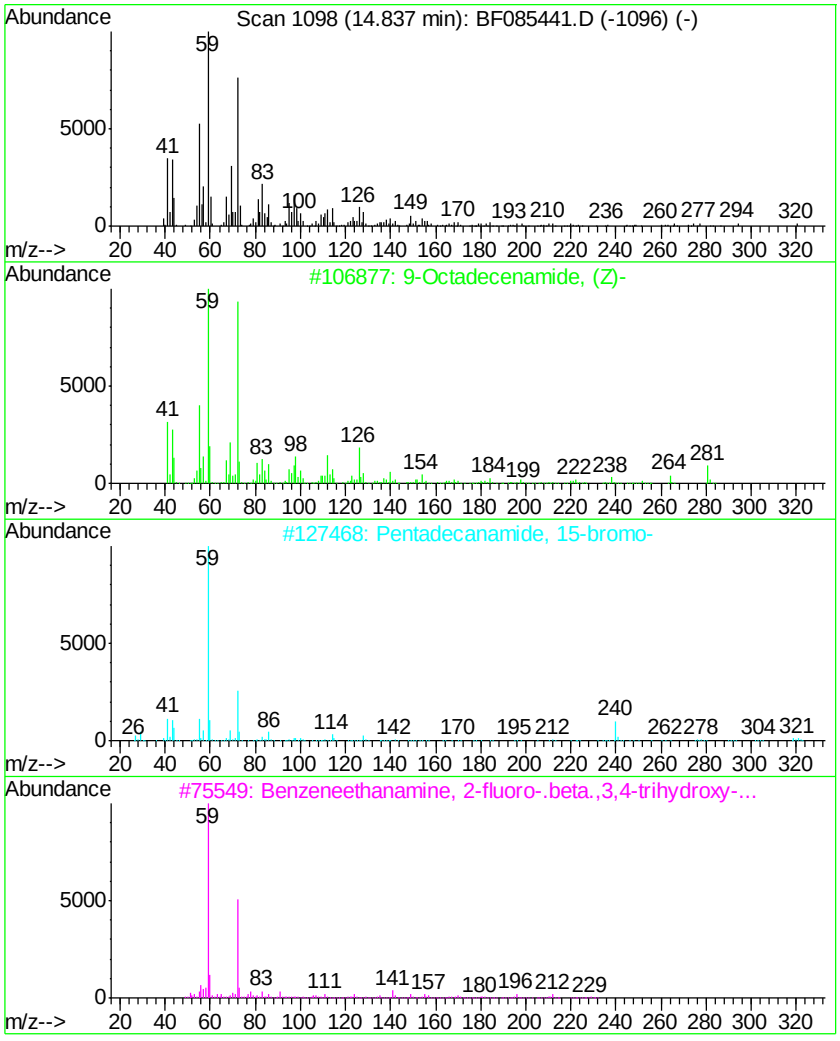
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

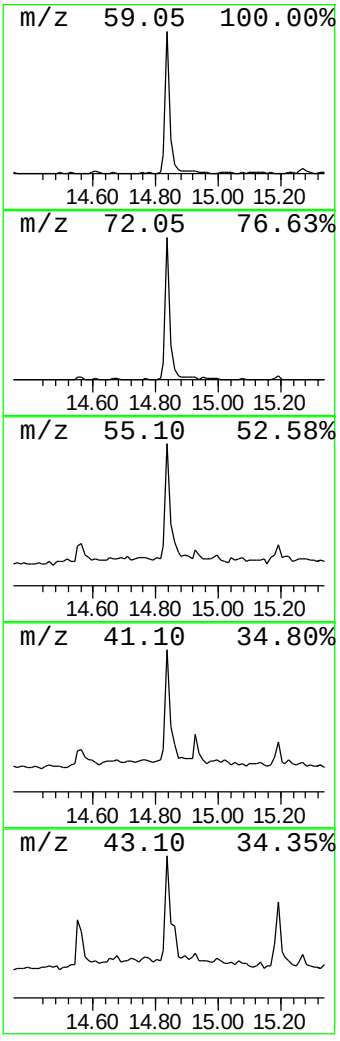
**********

Peak Number 14 9-Octadecenamide, (Z)- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.84 | 6.17 ng | 323572 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 64 |
| 2 | Pentadecanamide, 15-bromo- | 319 | C15H30BrNO | 1000163-86-1 | 53 |
| 3 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 53 |
| 4 | Octadecanamide | 283 | C18H37NO | 000124-26-5 | 47 |
| 5 | Decanamide- | 171 | C10H21NO | 002319-29-1 | 43 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

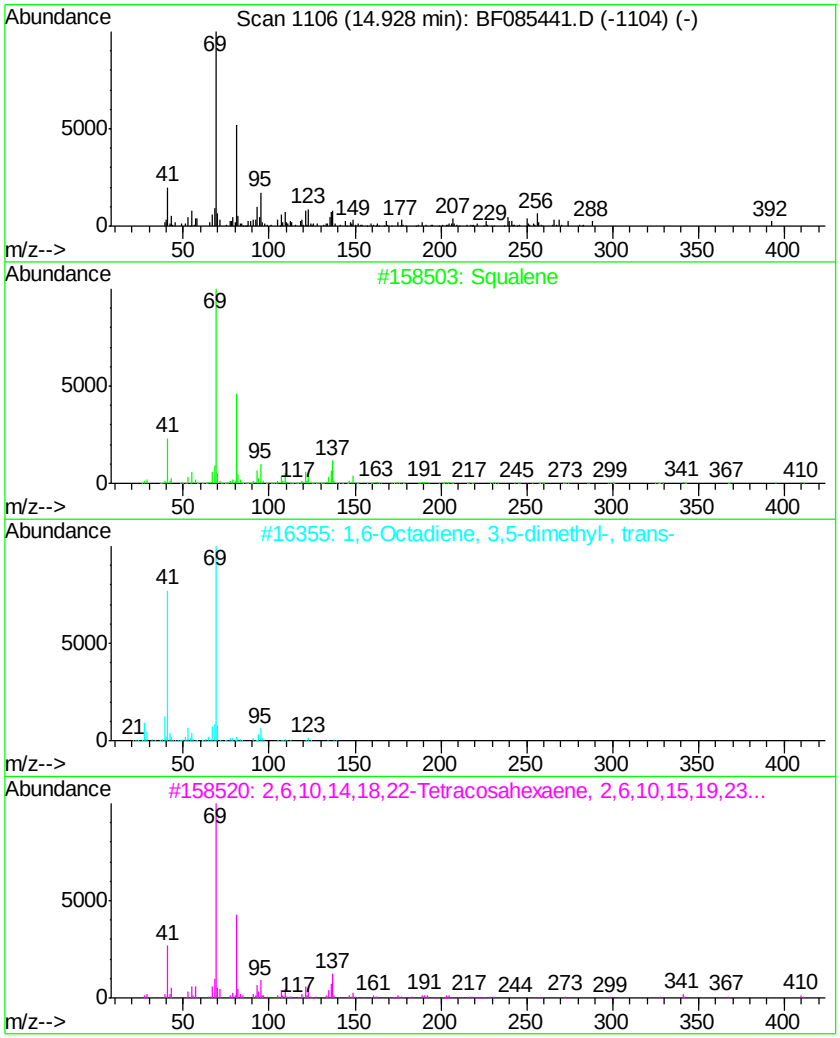
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

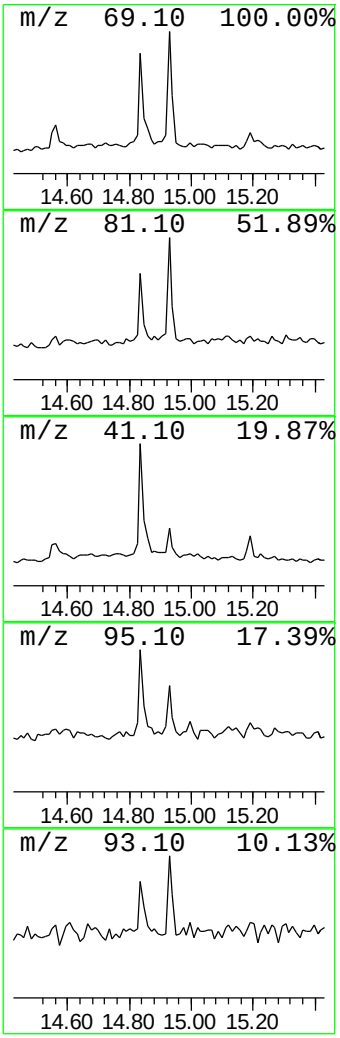
**********

Peak Number 15 Squalene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.93 | 2.68 ng | 140660 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Squalene | 410 | C30H50 | 007683-64-9 | 68 |
| 2 | 1,6-Octadiene, 3,5-dimethyl-, tr... | 138 | C10H18 | 074630-87-8 | 59 |
| 3 | 2,6,10,14,18,22-Tetracosahexaene... | 410 | C30H50 | 000111-02-4 | 59 |
| 4 | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24 | 062951-96-6 | 59 |
| 5 | 1,5-Heptadiene, 2,6-dimethyl- | 124 | C9H16 | 006709-39-3 | 58 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

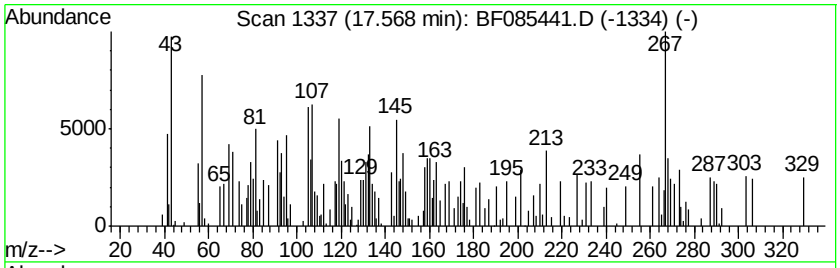
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

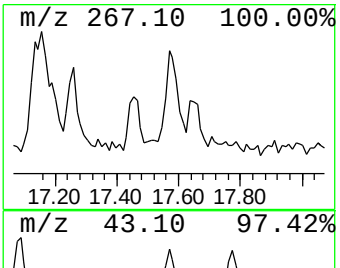
**********

Peak Number 17 unknown17.57 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.57 | 2.20 ng | 115060 | Perylene-d12 | 15.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Titanium, (.eta.(8)-cyclooctatet... | 267 | C17H15Ti | 054538-57-7 | 30 |
| 2 | 3-Amino-2-[2-methoxyphenyl]-4H-1... | 267 | C16H13NO3 | 187585-10-0 | 25 |
| 3 | 4'-Nitroflavone | 267 | C15H9NO4 | 019725-49-6 | 22 |
| 4 | N-Phenyl-N'-(4-N,N-diethylaminob... | 267 | C17H21N3 | 003101-58-4 | 22 |
| 5 | 1-(4-Nitrophenyl)-3-phenyl-2-pyr... | 267 | C15H13N3O2 | 005920-39-8 | 22 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031416\
Data File : BF085441.D
Acq On : 14 Mar 2016 20:58
Operator : UM/SJ
Sample : H1722-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** W170TH-SB-33(0.5-2.0)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.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... | 5.14 | 7.2 | ng | 397301 | 1 | 6.93 | 1100630 | 20.0 |
| unknown6.70 | 6.70 | 98.7 | ng | 5431300 | 1 | 6.93 | 1100630 | 20.0 |
| Hexanoic acid, 2-... | 7.58 | 2.4 | ng | 192991 | 2 | 8.21 | 1588720 | 20.0 |
| Dodecane | 10.39 | 2.3 | ng | 187705 | 3 | 9.97 | 1653050 | 20.0 |
| Tetradecane | 10.87 | 2.2 | ng | 288189 | 4 | 11.45 | 2591680 | 20.0 |
| Cyclododecane | 11.67 | 2.7 | ng | 348671 | 4 | 11.45 | 2591680 | 20.0 |
| Anthracene, 2-met... | 11.98 | 6.3 | ng | 809975 | 4 | 11.45 | 2591680 | 20.0 |
| unknown12.06 | 12.06 | 3.2 | ng | 414586 | 4 | 11.45 | 2591680 | 20.0 |
| Dodecanoic acid | 12.76 | 2.0 | ng | 262808 | 4 | 11.45 | 2591680 | 20.0 |
| Fluoranthene, 2-m... | 13.21 | 2.2 | ng | 202559 | 5 | 14.08 | 1859660 | 20.0 |
| Pyrene, 1-methyl- | 13.32 | 2.0 | ng | 186405 | 5 | 14.08 | 1859660 | 20.0 |
| Dichloroacetic ac... | 13.92 | 4.9 | ng | 453429 | 5 | 14.08 | 1859660 | 20.0 |
| 9-Octadecenamide,... | 14.84 | 6.2 | ng | 323572 | 6 | 15.55 | 1048110 | 20.0 |
| Squalene | 14.93 | 2.7 | ng | 140660 | 6 | 15.55 | 1048110 | 20.0 |
| unknown17.57 | 17.57 | 2.2 | ng | 115060 | 6 | 15.55 | 1048110 | 20.0 |