LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

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-BF020116.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 | 4.133 | 175 | 179 | 184 | rBV2 | 46881 | 110682 | 2.44% | 0.166% |
| 2 | 4.830 | 237 | 240 | 253 | rVB | 1012399 | 1751060 | 38.64% | 2.621% |
| 3 | 5.276 | 277 | 279 | 282 | rBV | 3307306 | 3508238 | 77.41% | 5.251% |
| 4 | 5.939 | 335 | 337 | 340 | rBV | 493873 | 541603 | 11.95% | 0.811% |
| 5 | 6.339 | 369 | 372 | 374 | rBV | 4037644 | 4531993 | 100.00% | 6.784% |
| 6 | 6.373 | 374 | 375 | 379 | rVB | 62846 | 63662 | 1.40% | 0.095% |
| 7 | 6.453 | 379 | 382 | 384 | rBV | 4245639 | 3914150 | 86.37% | 5.859% |
| 8 | 6.682 | 400 | 402 | 405 | rBV | 1325195 | 1137085 | 25.09% | 1.702% |
| 9 | 6.762 | 407 | 409 | 411 | rVV | 861590 | 1054550 | 23.27% | 1.579% |
| 10 | 6.842 | 414 | 416 | 418 | rVV | 3518389 | 3148666 | 69.48% | 4.713% |
| 11 | 7.116 | 435 | 440 | 445 | rBV | 76774 | 93156 | 2.06% | 0.139% |
| 12 | 7.253 | 449 | 452 | 455 | rBV | 2484523 | 2489148 | 54.92% | 3.726% |
| 13 | 7.367 | 458 | 462 | 466 | rBV | 40521 | 68797 | 1.52% | 0.103% |
| 14 | 7.973 | 512 | 515 | 519 | rVB2 | 1725870 | 2593868 | 57.23% | 3.883% |
| 15 | 8.328 | 544 | 546 | 551 | rVB | 64893 | 74123 | 1.64% | 0.111% |
| 16 | 8.682 | 575 | 577 | 579 | rBV | 298344 | 282331 | 6.23% | 0.423% |
| 17 | 8.785 | 584 | 586 | 588 | rVB | 206382 | 185991 | 4.10% | 0.278% |
| 18 | 9.059 | 606 | 610 | 612 | rVB | 3133963 | 4353205 | 96.05% | 6.516% |
| 19 | 9.150 | 614 | 618 | 620 | rBV | 89519 | 94763 | 2.09% | 0.142% |
| 20 | 9.242 | 624 | 626 | 629 | rVB | 64414 | 64190 | 1.42% | 0.096% |
| 21 | 9.310 | 629 | 632 | 634 | rBV | 85062 | 111233 | 2.45% | 0.167% |
| 22 | 9.379 | 636 | 638 | 640 | rBV | 123932 | 179909 | 3.97% | 0.269% |
| 23 | 9.448 | 642 | 644 | 646 | rBV | 697245 | 704222 | 15.54% | 1.054% |
| 24 | 9.505 | 646 | 649 | 651 | rVB2 | 60871 | 99361 | 2.19% | 0.149% |
| 25 | 9.585 | 651 | 656 | 658 | rBV | 65055 | 67097 | 1.48% | 0.100% |
| 26 | 9.665 | 661 | 663 | 665 | rBV | 55006 | 63879 | 1.41% | 0.096% |
| 27 | 9.722 | 665 | 668 | 670 | rBV | 1864489 | 1797713 | 39.67% | 2.691% |
| 28 | 9.756 | 670 | 671 | 673 | rVB | 429496 | 316148 | 6.98% | 0.473% |
| 29 | 9.882 | 680 | 682 | 683 | rBV2 | 71668 | 80611 | 1.78% | 0.121% |
| 30 | 9.928 | 683 | 686 | 688 | rBV | 365856 | 322196 | 7.11% | 0.482% |
| 31 | 9.962 | 688 | 689 | 694 | rVB2 | 44864 | 68884 | 1.52% | 0.103% |
| 32 | 10.133 | 701 | 704 | 706 | rBV2 | 56597 | 114789 | 2.53% | 0.172% |
| 33 | 10.168 | 706 | 707 | 709 | rVB | 140231 | 101783 | 2.25% | 0.152% |
| 34 | 10.271 | 714 | 716 | 718 | rBV | 419421 | 431956 | 9.53% | 0.647% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

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-BF020116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.328 | 718 | 721 | 722 | rBV | 64533 | 111207 | 2.45% | 0.166% |
| 36 | 10.385 | 724 | 726 | 728 | rBV2 | 53350 | 70789 | 1.56% | 0.106% |
| 37 | 10.431 | 728 | 730 | 732 | rVB2 | 94377 | 139763 | 3.08% | 0.209% |
| 38 | 10.511 | 734 | 737 | 739 | rBV | 2833314 | 2662614 | 58.75% | 3.986% |
| 39 | 10.636 | 746 | 748 | 752 | rVB | 180838 | 218660 | 4.82% | 0.327% |
| 40 | 10.808 | 760 | 763 | 765 | rBV2 | 104692 | 201207 | 4.44% | 0.301% |
| 41 | 10.899 | 769 | 771 | 772 | rVB | 67622 | 74014 | 1.63% | 0.111% |
| 42 | 10.968 | 772 | 777 | 778 | rBV3 | 72894 | 180124 | 3.97% | 0.270% |
| 43 | 11.014 | 778 | 781 | 783 | rVB2 | 82011 | 98995 | 2.18% | 0.148% |
| 44 | 11.059 | 783 | 785 | 786 | rBV | 87190 | 110528 | 2.44% | 0.165% |
| 45 | 11.094 | 786 | 788 | 792 | rVB2 | 205203 | 326217 | 7.20% | 0.488% |
| 46 | 11.208 | 795 | 798 | 799 | rBV | 1272039 | 2373429 | 52.37% | 3.553% |
| 47 | 11.231 | 799 | 800 | 801 | rVB | 2669498 | 1831276 | 40.41% | 2.741% |
| 48 | 11.276 | 801 | 804 | 806 | rVB | 832271 | 715582 | 15.79% | 1.071% |
| 49 | 11.311 | 806 | 807 | 809 | rBV2 | 109654 | 134843 | 2.98% | 0.202% |
| 50 | 11.356 | 809 | 811 | 814 | rVB3 | 34390 | 64628 | 1.43% | 0.097% |
| 51 | 11.436 | 814 | 818 | 819 | rBV | 297298 | 301565 | 6.65% | 0.451% |
| 52 | 11.505 | 822 | 824 | 825 | rBV | 56859 | 86883 | 1.92% | 0.130% |
| 53 | 11.528 | 825 | 826 | 828 | rVB2 | 90937 | 96773 | 2.14% | 0.145% |
| 54 | 11.619 | 831 | 834 | 836 | rVB2 | 52776 | 80441 | 1.77% | 0.120% |
| 55 | 11.699 | 839 | 841 | 842 | rBV | 446887 | 464973 | 10.26% | 0.696% |
| 56 | 11.734 | 842 | 844 | 846 | rVB | 585016 | 532170 | 11.74% | 0.797% |
| 57 | 11.779 | 846 | 848 | 849 | rVB | 255214 | 201050 | 4.44% | 0.301% |
| 58 | 11.814 | 849 | 851 | 855 | rVB2 | 701424 | 1140904 | 25.17% | 1.708% |
| 59 | 11.916 | 856 | 860 | 861 | rBV4 | 55489 | 154919 | 3.42% | 0.232% |
| 60 | 11.996 | 865 | 867 | 868 | rBV | 231132 | 196151 | 4.33% | 0.294% |
| 61 | 12.145 | 878 | 880 | 882 | rBV | 226746 | 217903 | 4.81% | 0.326% |
| 62 | 12.179 | 882 | 883 | 887 | rVB | 131612 | 205213 | 4.53% | 0.307% |
| 63 | 12.248 | 887 | 889 | 891 | rBV | 309209 | 414750 | 9.15% | 0.621% |
| 64 | 12.282 | 891 | 892 | 895 | rVB2 | 166112 | 259279 | 5.72% | 0.388% |
| 65 | 12.339 | 895 | 897 | 899 | rVB2 | 153398 | 215660 | 4.76% | 0.323% |
| 66 | 12.408 | 901 | 903 | 906 | rBV | 1784892 | 1768171 | 39.02% | 2.647% |
| 67 | 12.454 | 906 | 907 | 913 | rVB4 | 121101 | 235528 | 5.20% | 0.353% |
| 68 | 12.557 | 913 | 916 | 918 | rBV2 | 89142 | 177547 | 3.92% | 0.266% |
| 69 | 12.637 | 920 | 923 | 925 | rBV | 1924257 | 2088264 | 46.08% | 3.126% |
| 70 | 12.797 | 934 | 937 | 939 | rVB | 2728838 | 3859962 | 85.17% | 5.778% |
| 71 | 12.854 | 939 | 942 | 946 | rBV3 | 160173 | 292436 | 6.45% | 0.438% |

LSC Area Percent Report

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Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

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-BF020116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.922 | 946 | 948 | 949 | rBV2 | 172903 | 195247 | 4.31% | 0.292% |
| 73 | 12.968 | 949 | 952 | 954 | rVB | 314522 | 442183 | 9.76% | 0.662% |
| 74 | 13.037 | 954 | 958 | 959 | rBV | 229910 | 317613 | 7.01% | 0.475% |
| 75 | 13.071 | 959 | 961 | 962 | rBV | 275375 | 299182 | 6.60% | 0.448% |
| 76 | 13.162 | 967 | 969 | 970 | rBV | 173503 | 164165 | 3.62% | 0.246% |
| 77 | 13.185 | 970 | 971 | 974 | rBV | 124296 | 161775 | 3.57% | 0.242% |
| 78 | 13.391 | 985 | 989 | 992 | rVB3 | 66646 | 184675 | 4.07% | 0.276% |
| 79 | 13.471 | 992 | 996 | 1000 | rVV2 | 112446 | 215409 | 4.75% | 0.322% |
| 80 | 13.585 | 1003 | 1006 | 1007 | rBV2 | 114536 | 196271 | 4.33% | 0.294% |
| 81 | 13.608 | 1007 | 1008 | 1009 | rVV | 147355 | 129270 | 2.85% | 0.193% |
| 82 | 13.711 | 1013 | 1017 | 1024 | rVB4 | 246641 | 634480 | 14.00% | 0.950% |
| 83 | 13.837 | 1024 | 1028 | 1032 | rBV3 | 1426994 | 2830594 | 62.46% | 4.237% |
| 84 | 13.940 | 1033 | 1037 | 1038 | rVB2 | 75045 | 124458 | 2.75% | 0.186% |
| 85 | 14.214 | 1059 | 1061 | 1063 | rVV | 152342 | 203921 | 4.50% | 0.305% |
| 86 | 14.248 | 1063 | 1064 | 1066 | rVB | 98653 | 98515 | 2.17% | 0.147% |
| 87 | 14.305 | 1066 | 1069 | 1071 | rBV4 | 66547 | 151420 | 3.34% | 0.227% |
| 88 | 14.625 | 1095 | 1097 | 1099 | rVB2 | 47866 | 70315 | 1.55% | 0.105% |
| 89 | 14.831 | 1112 | 1115 | 1120 | rBV | 387210 | 725257 | 16.00% | 1.086% |
| 90 | 14.922 | 1121 | 1123 | 1125 | rVB2 | 88255 | 91130 | 2.01% | 0.136% |
| 91 | 15.094 | 1136 | 1138 | 1141 | rVB | 241203 | 290621 | 6.41% | 0.435% |
| 92 | 15.151 | 1141 | 1143 | 1146 | rVV | 364406 | 412635 | 9.10% | 0.618% |
| 93 | 15.208 | 1146 | 1148 | 1155 | rVB | 845827 | 1110086 | 24.49% | 1.662% |
| 94 | 15.700 | 1189 | 1191 | 1199 | rVB3 | 46794 | 129845 | 2.87% | 0.194% |
| 95 | 16.488 | 1257 | 1260 | 1264 | rVB2 | 127176 | 239259 | 5.28% | 0.358% |
| 96 | 16.877 | 1290 | 1294 | 1299 | rBV | 105270 | 213129 | 4.70% | 0.319% |
| 97 | 17.083 | 1310 | 1312 | 1318 | rVV | 29049 | 85989 | 1.90% | 0.129% |
| 98 | 17.906 | 1378 | 1384 | 1390 | rBV8 | 24118 | 101774 | 2.25% | 0.152% |
| 99 | 18.774 | 1456 | 1460 | 1463 | rBV5 | 21500 | 70134 | 1.55% | 0.105% |
| 100 | 18.831 | 1463 | 1465 | 1474 | rVB | 28406 | 91631 | 2.02% | 0.137% |

Sum of corrected areas: 66806443

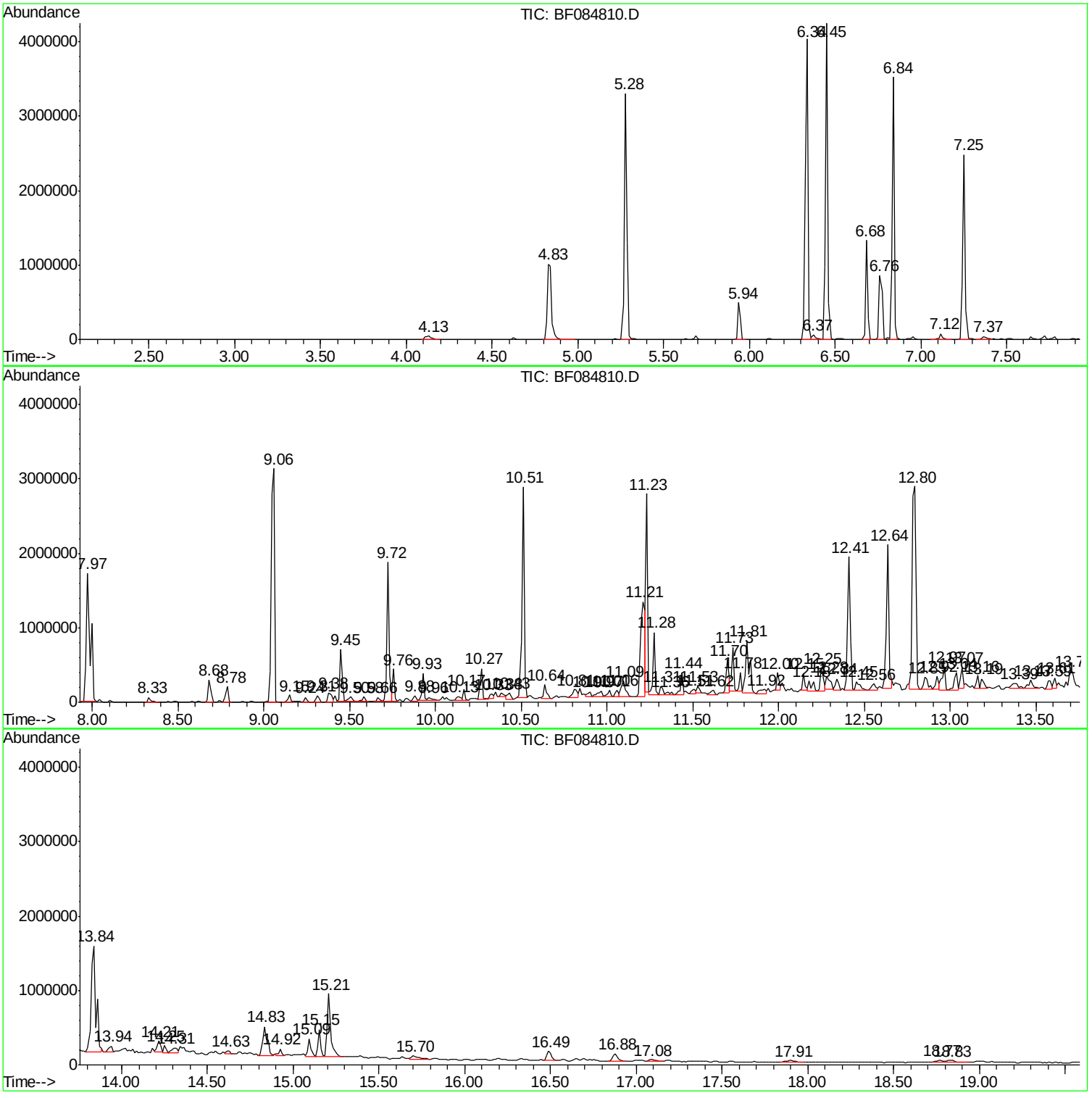
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.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\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

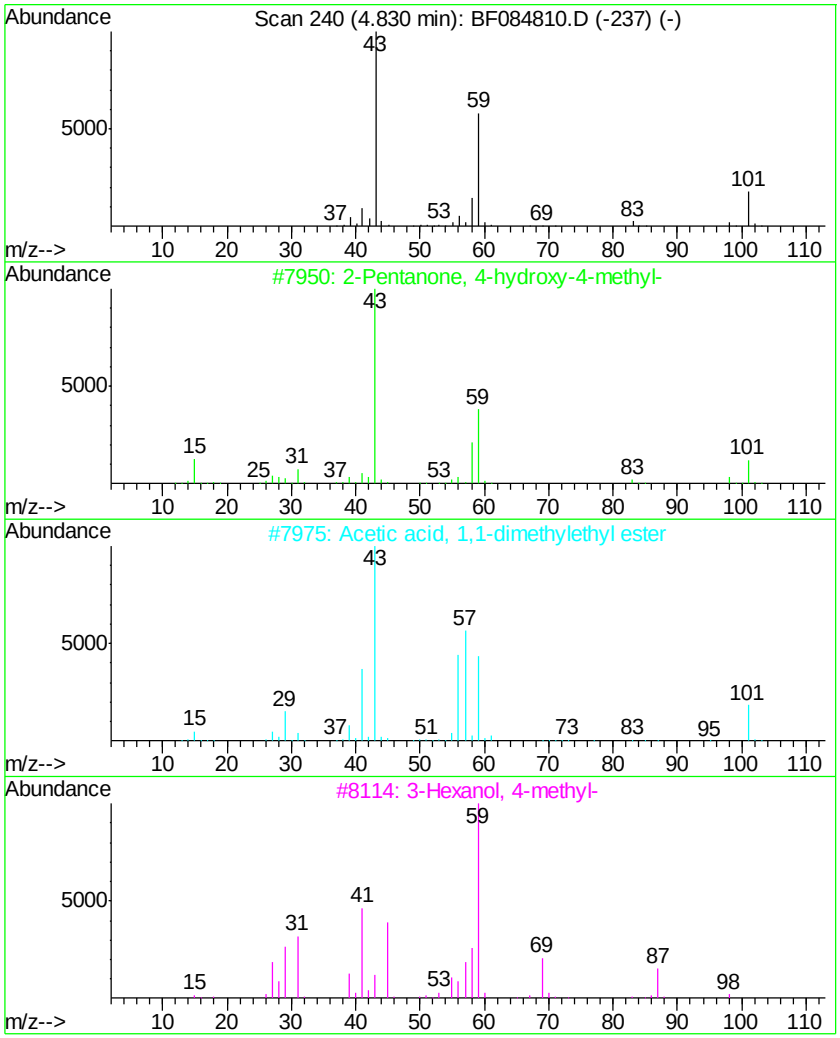
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

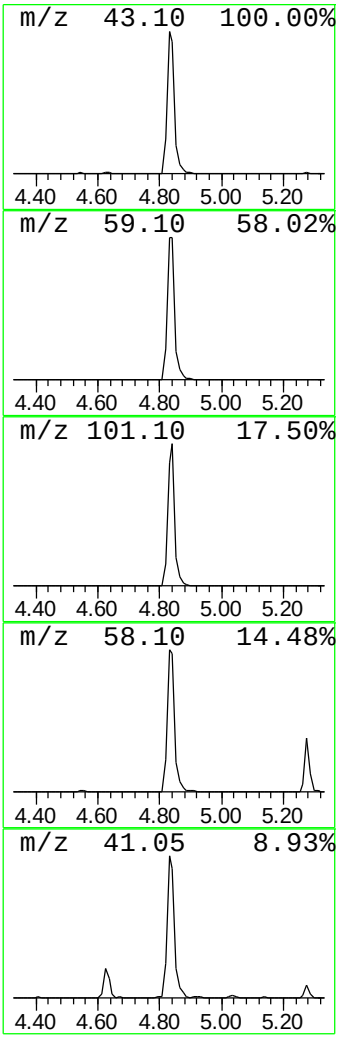
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.83 | 30.80 ng | 1751060 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 33 |
| 5 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 33 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

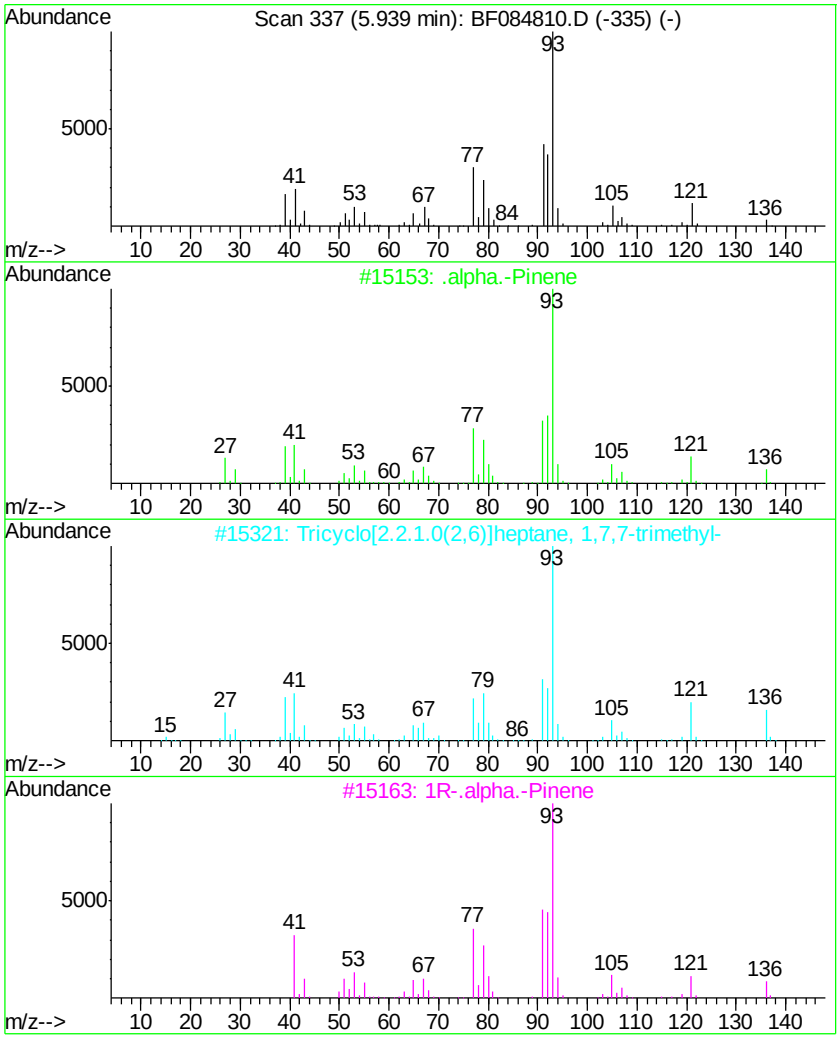
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

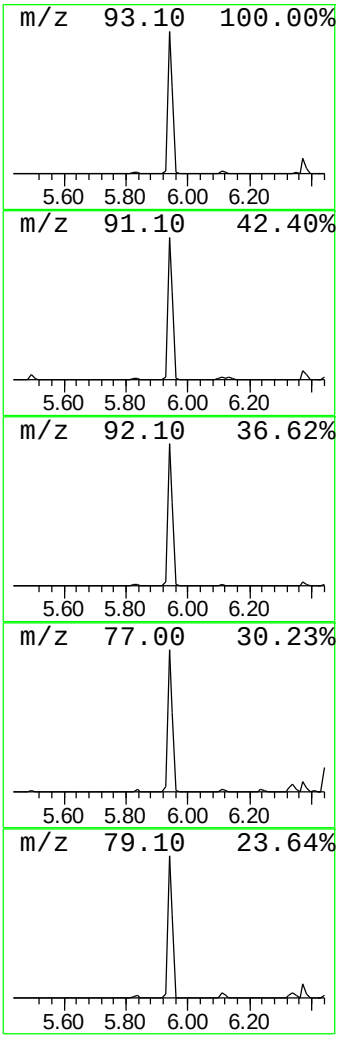
**********

Peak Number 2 .alpha.-Pinene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.94 | 9.53 ng | 541603 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 94 |
| 2 | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16 | 000508-32-7 | 91 |
| 3 | 1R-.alpha.-Pinene | 136 | C10H16 | 007785-70-8 | 91 |
| 4 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 90 |
| 5 | Bicyclo[4.1.0]hept-3-ene, 3,7,7-... | 136 | C10H16 | 000498-15-7 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
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Operator : SJ/IZ
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**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

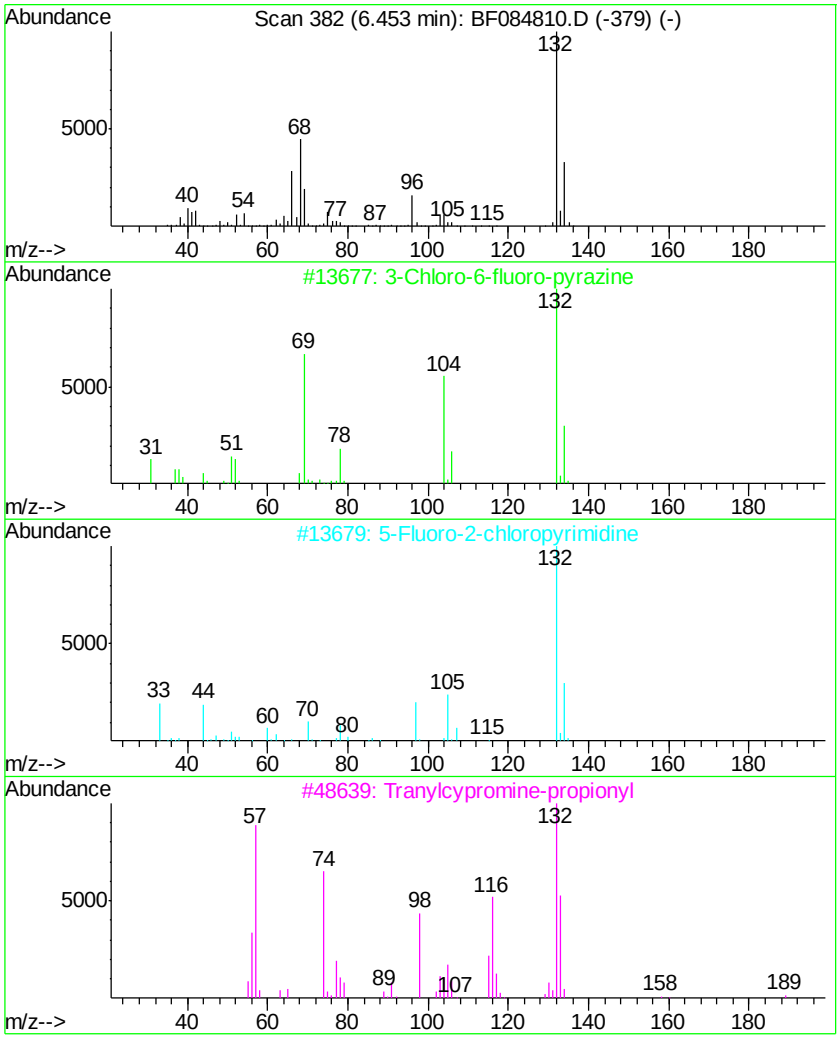
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

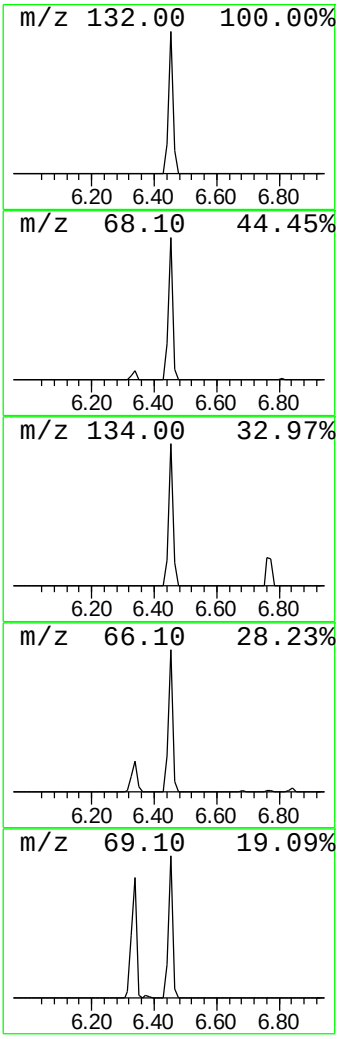
**********

Peak Number 3 unknown6.45 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.45 | 68.85 ng | 3914150 | 1,4-Dichlorobenzene-d4 | 6.68 |

| 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 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
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Operator : SJ/IZ
Sample : H1312-04
Misc :
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**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

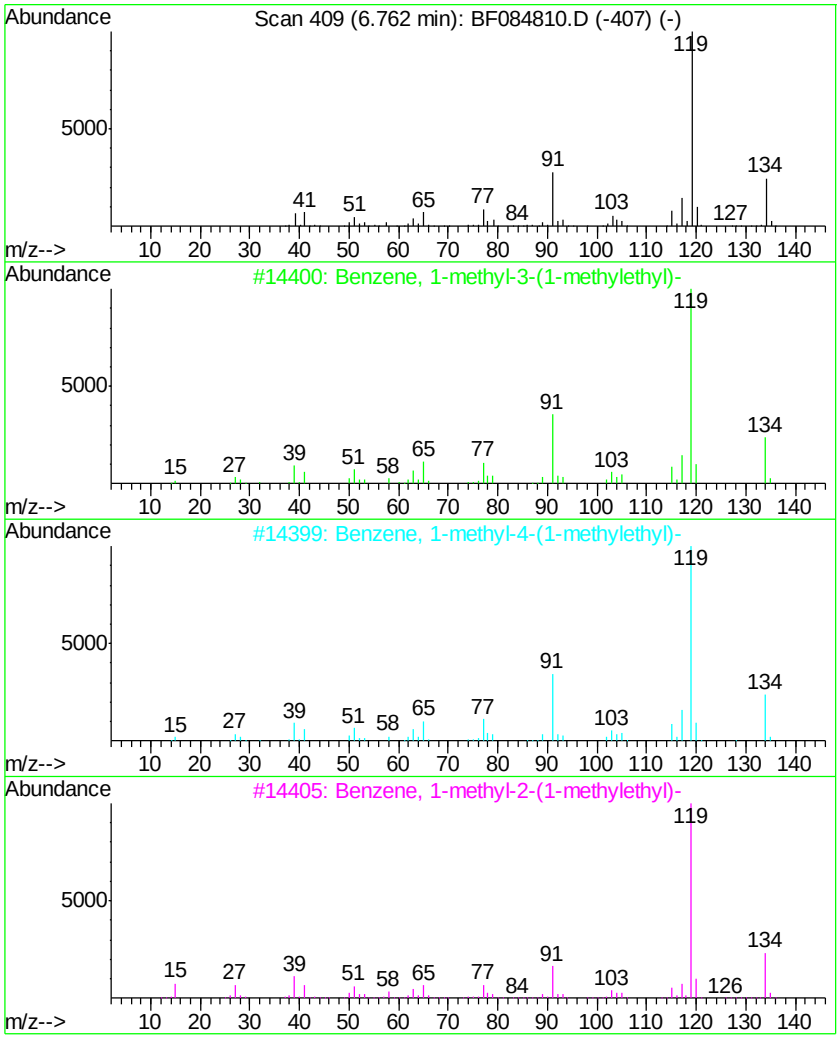
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

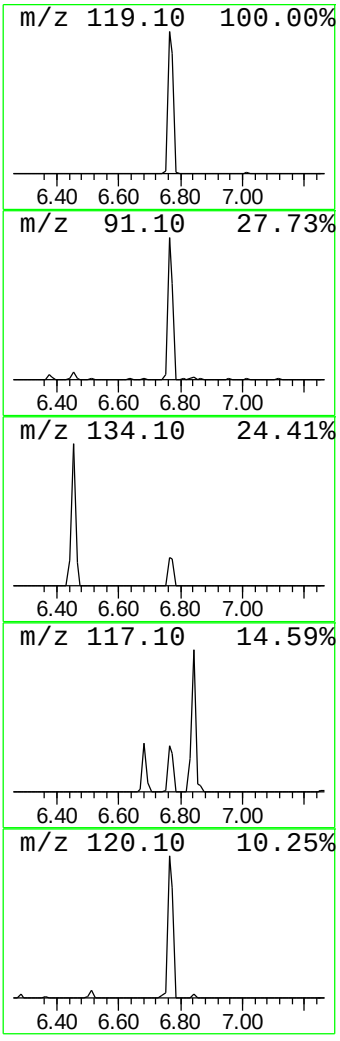
**********

Peak Number 4 Benzene, 1-methyl-3-(1-meth... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.76 | 18.55 ng | 1054550 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 2 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 95 |
| 3 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

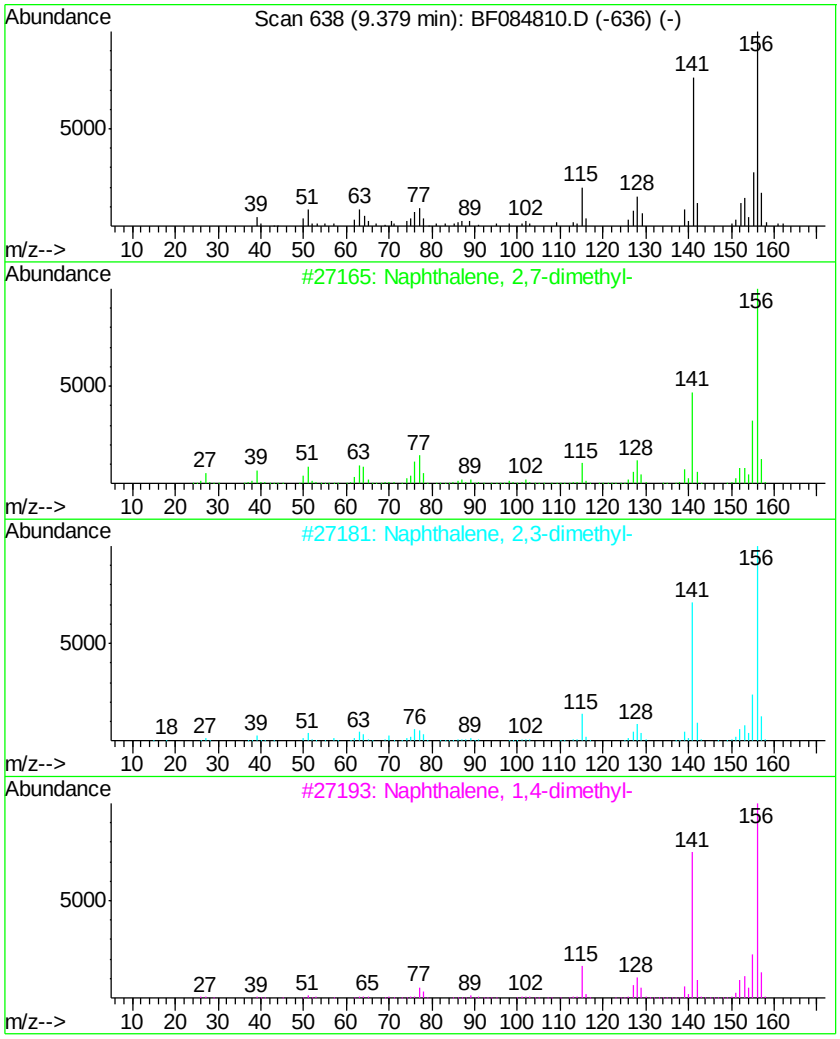
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

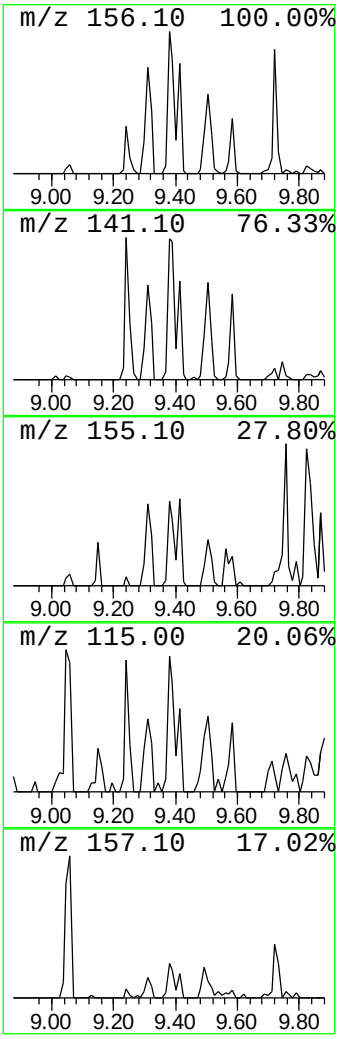
**********

Peak Number 6 Naphthalene, 2,7-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.38 | 2.00 ng | 179909 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

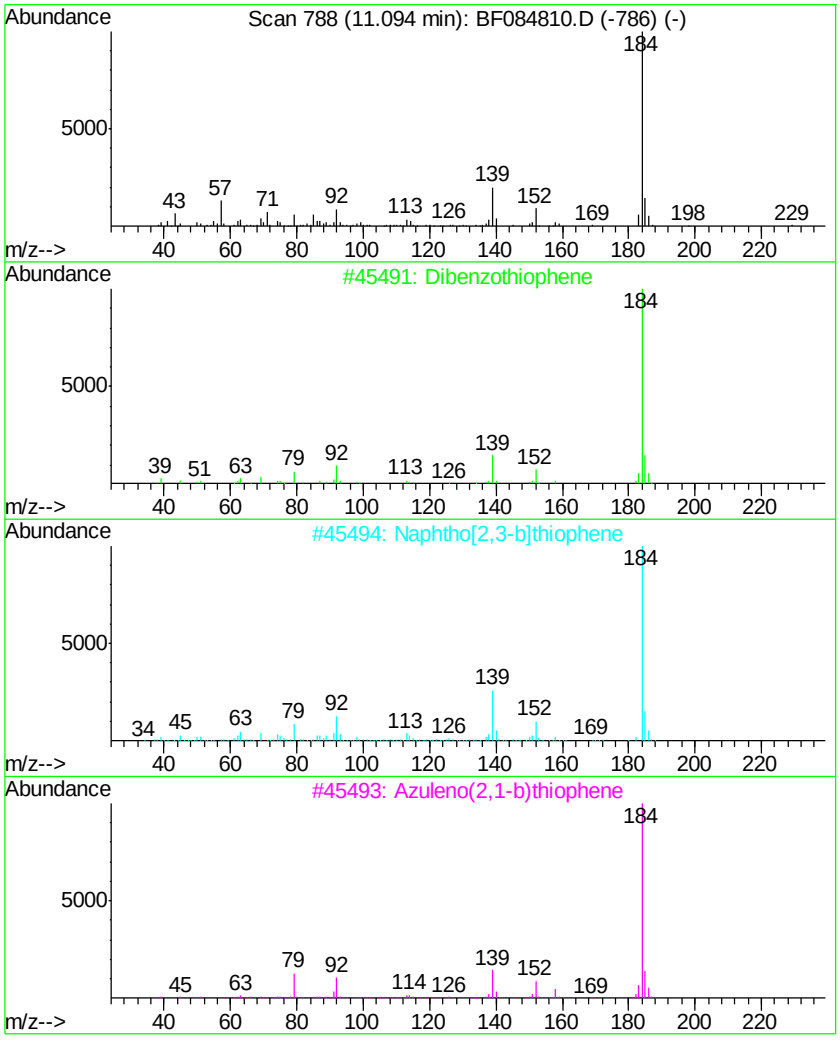
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

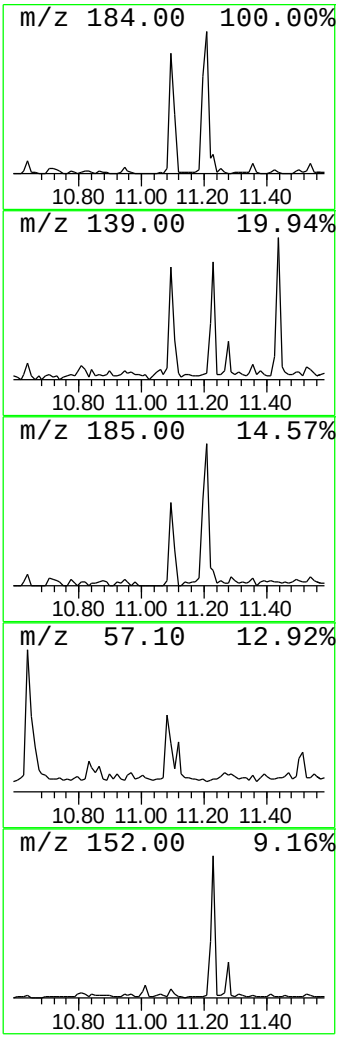
**********

Peak Number 7 Dibenzothiophene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.09 | 2.75 ng | 326217 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 95 |
| 2 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 3 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 87 |
| 4 | Naphthalene, 2-ethenyl-6-methoxy- | 184 | C13H12O | 063444-51-9 | 59 |
| 5 | 2,7-Diamino-quinoline-3-carbonit... | 184 | C10H8N4 | 1000187-24-4 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

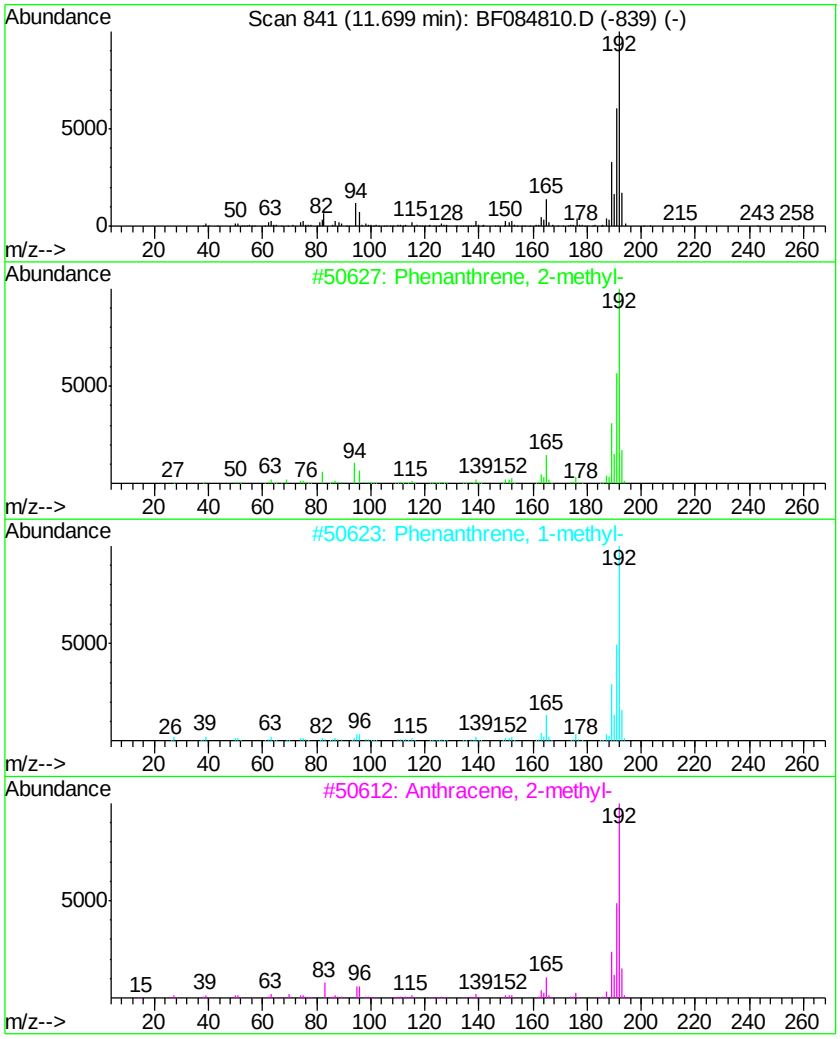
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

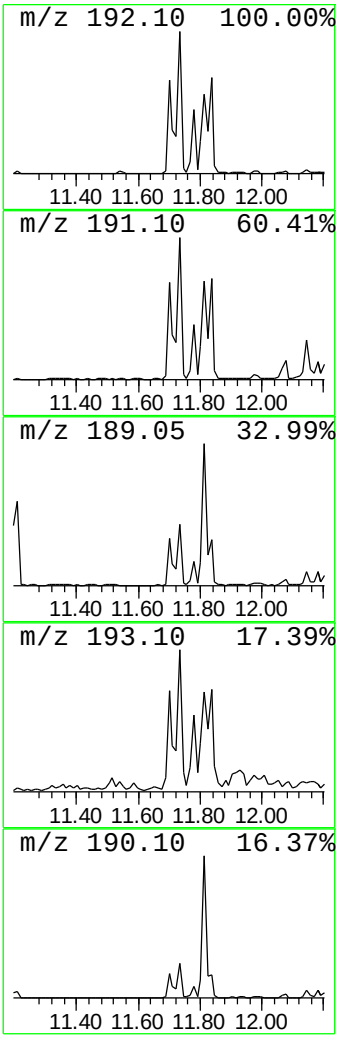
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.70 | 3.92 ng | 464973 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 94 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

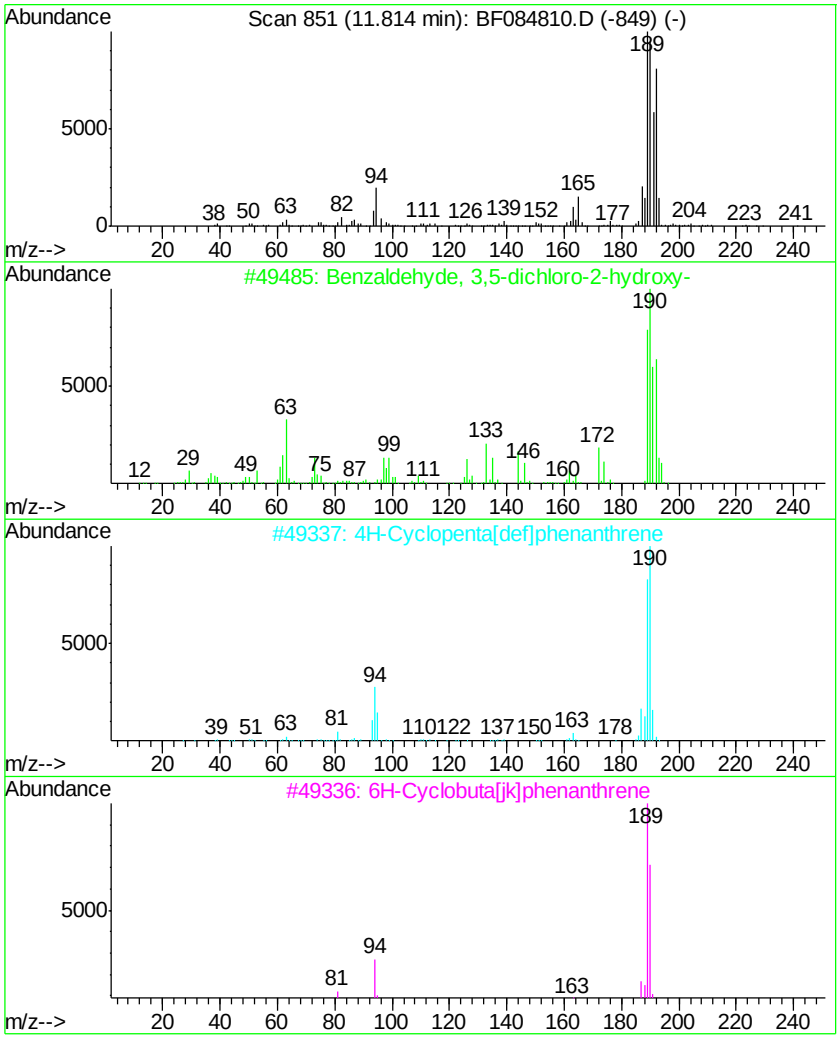
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

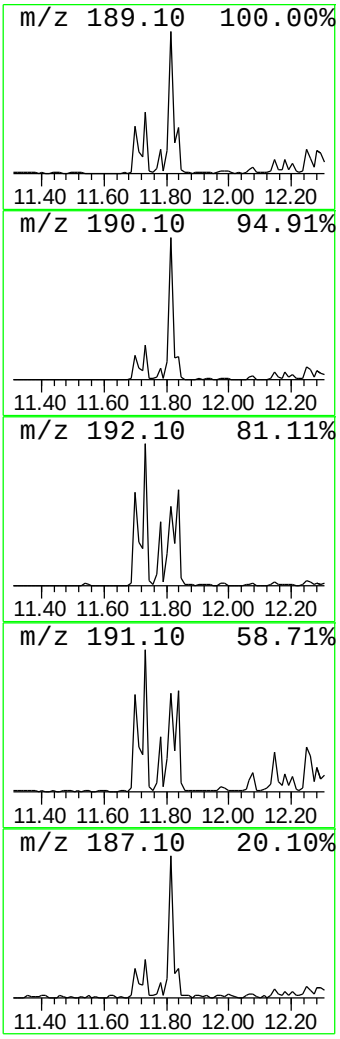
**********

Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.81 | 9.61 ng | 1140900 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 72 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 42 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 42 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

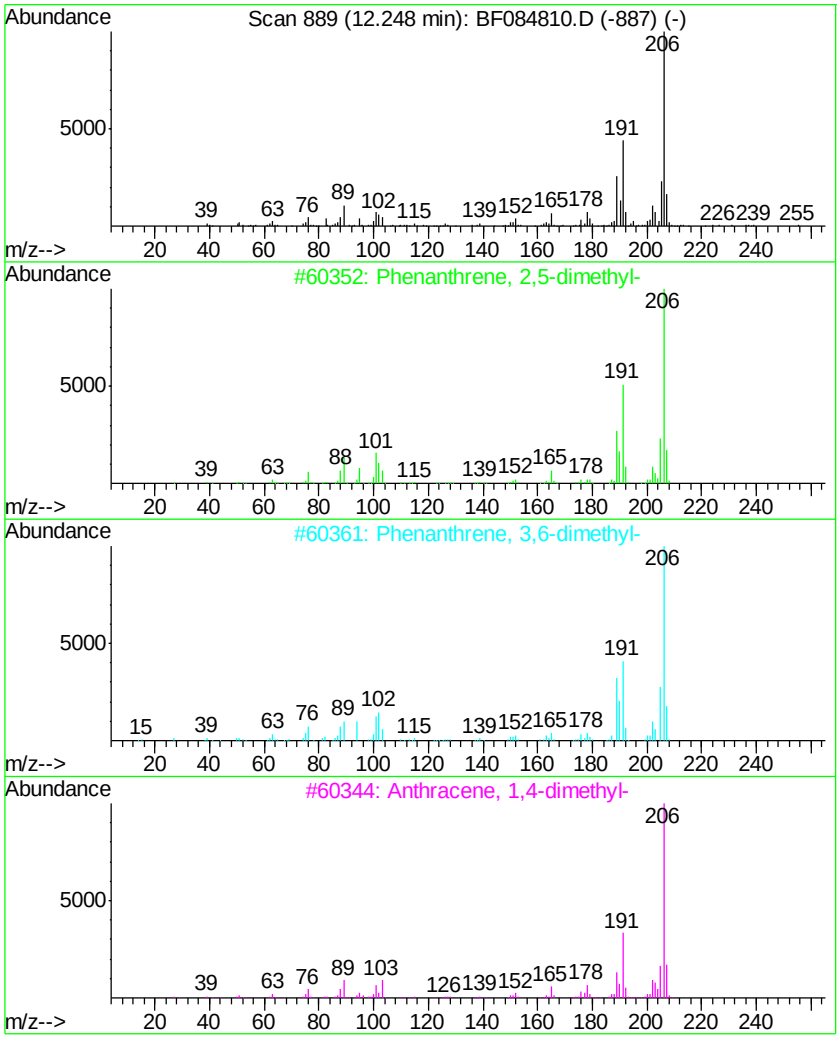
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

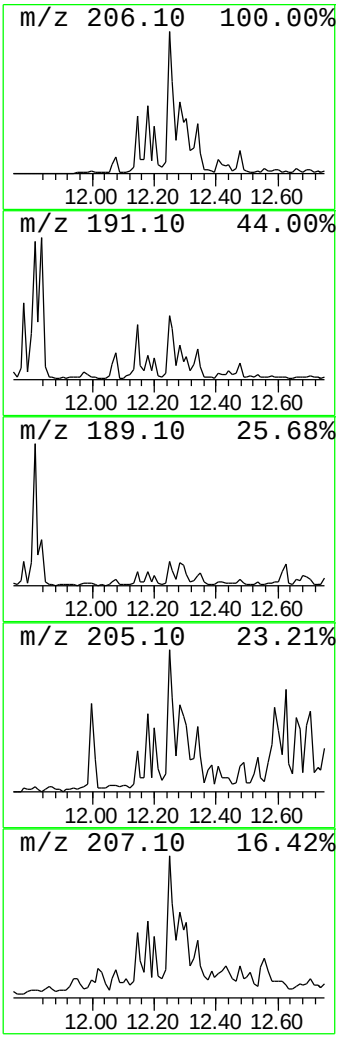
**********

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.25 | 3.49 ng | 414750 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 97 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 3 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 93 |
| 4 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 92 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

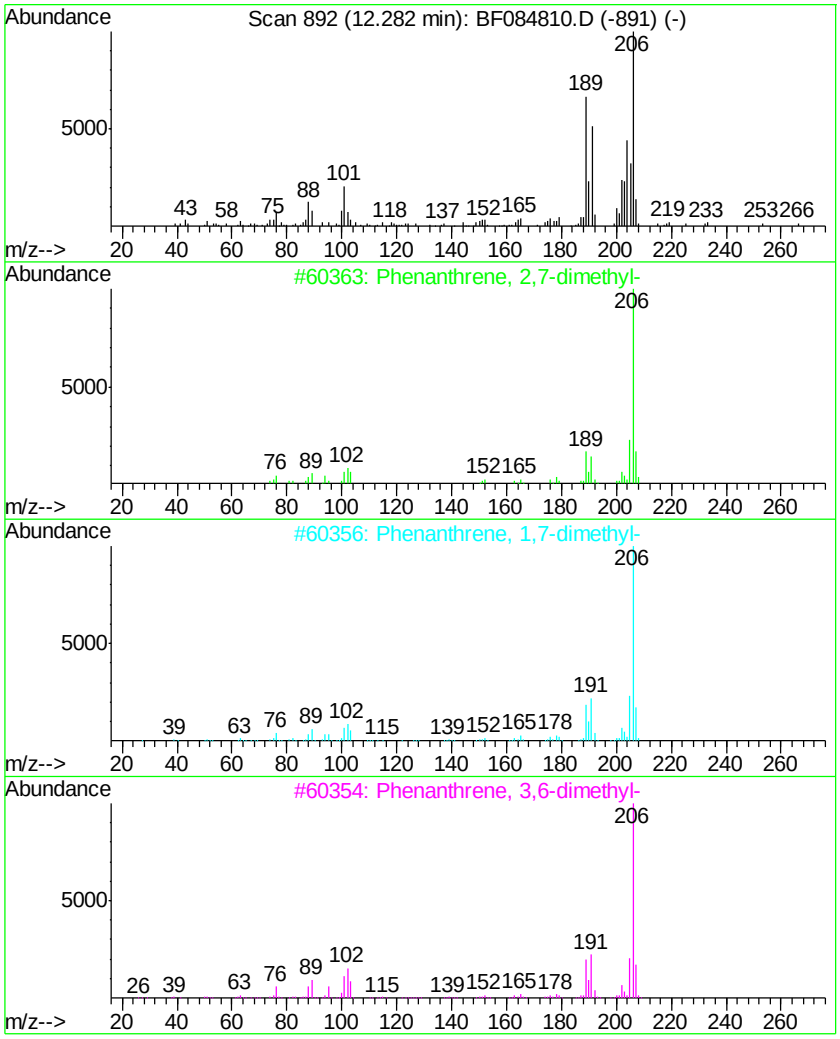
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

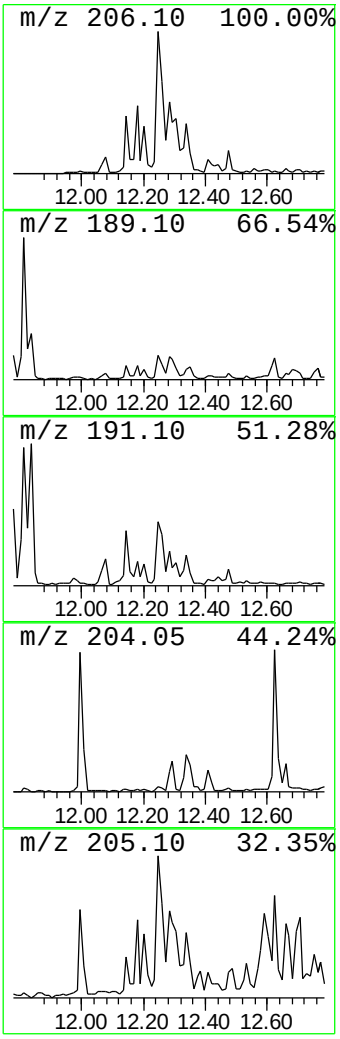
**********

Peak Number 12 Phenanthrene, 2,7-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.28 | 2.18 ng | 259279 | Phenanthrene-d10 | 11.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 68 |
| 2 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 62 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 58 |
| 4 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 52 |
| 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

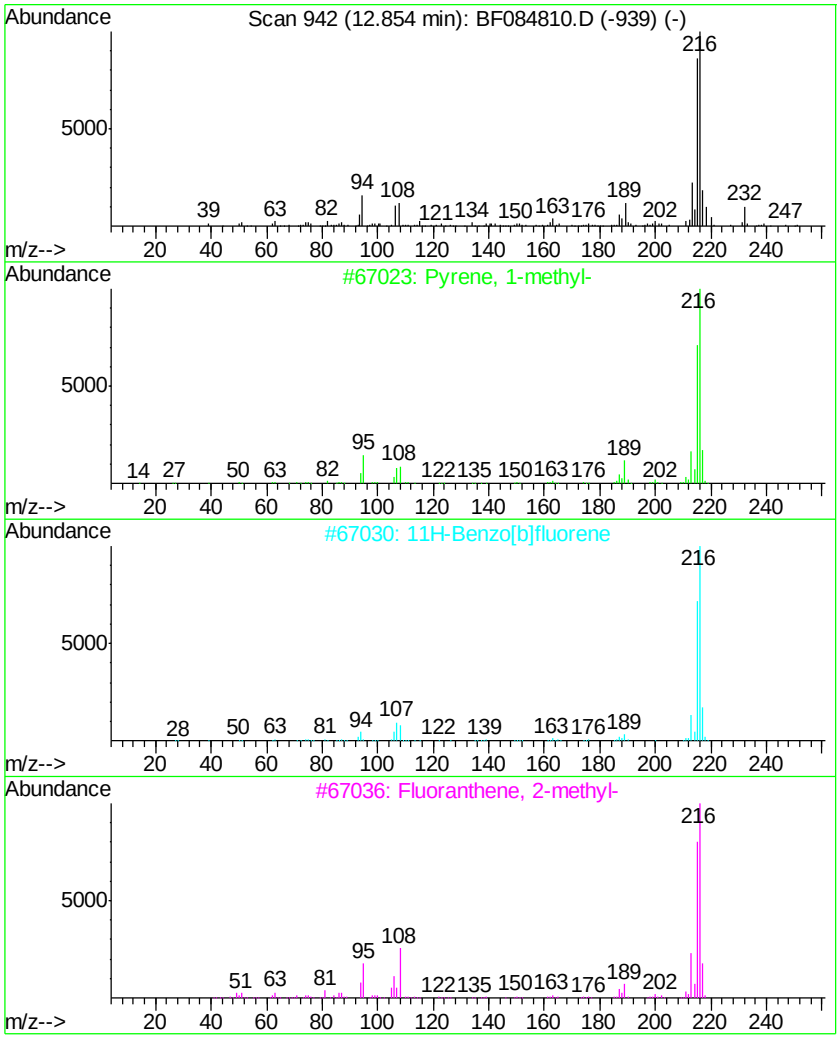
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

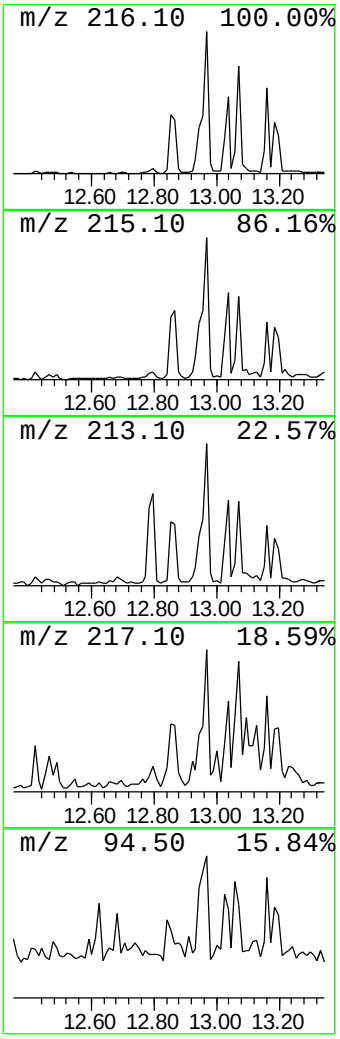
**********

Peak Number 13 Pyrene, 1-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.85 | 2.07 ng | 292436 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

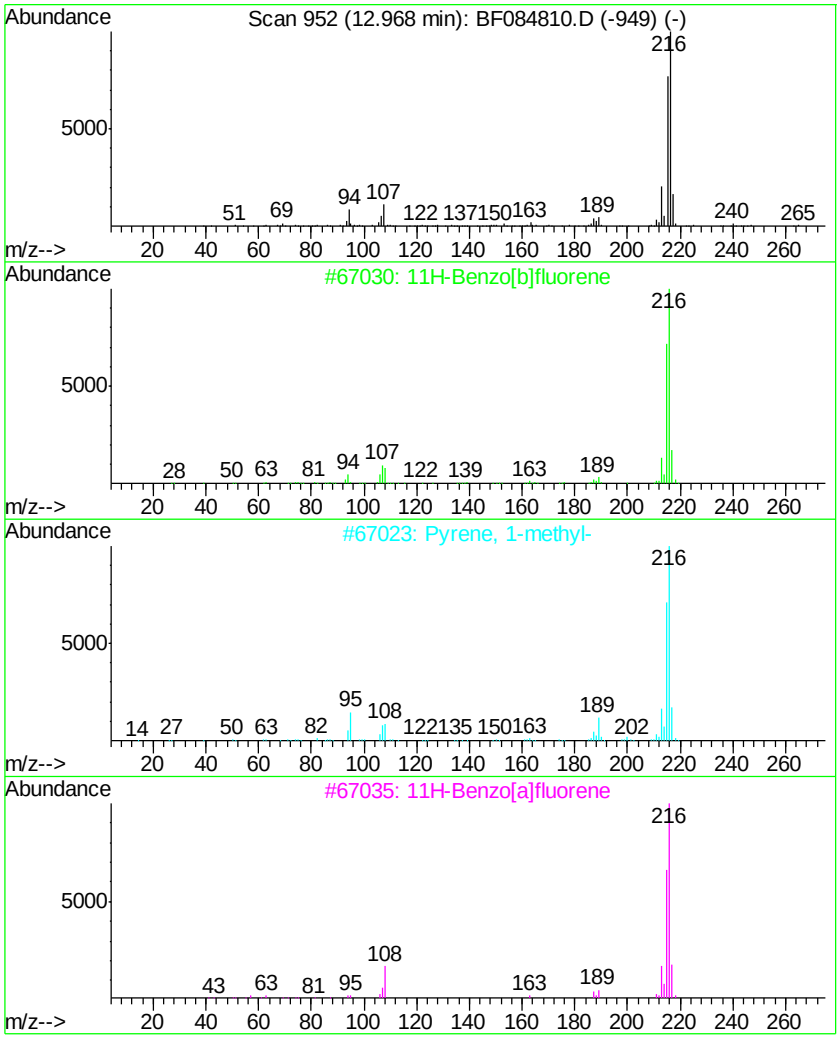
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

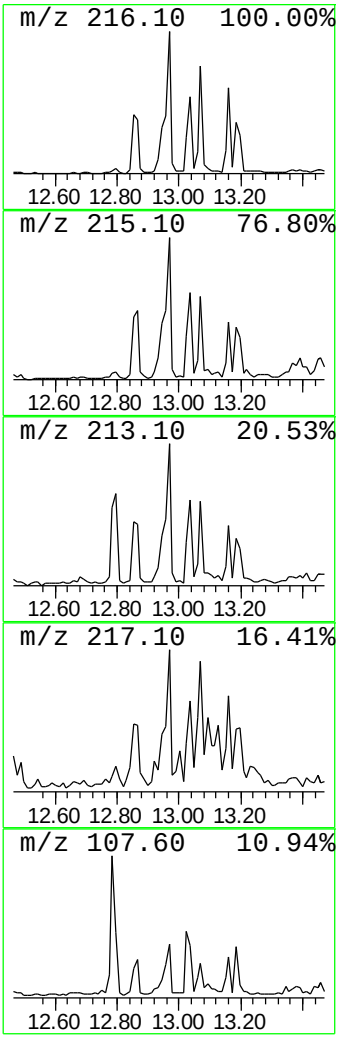
**********

Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.97 | 3.12 ng | 442183 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 97 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 5 | trans-p-(Trifluoromethyl)cinnami... | 216 | C10H7F3O2 | 016642-92-5 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

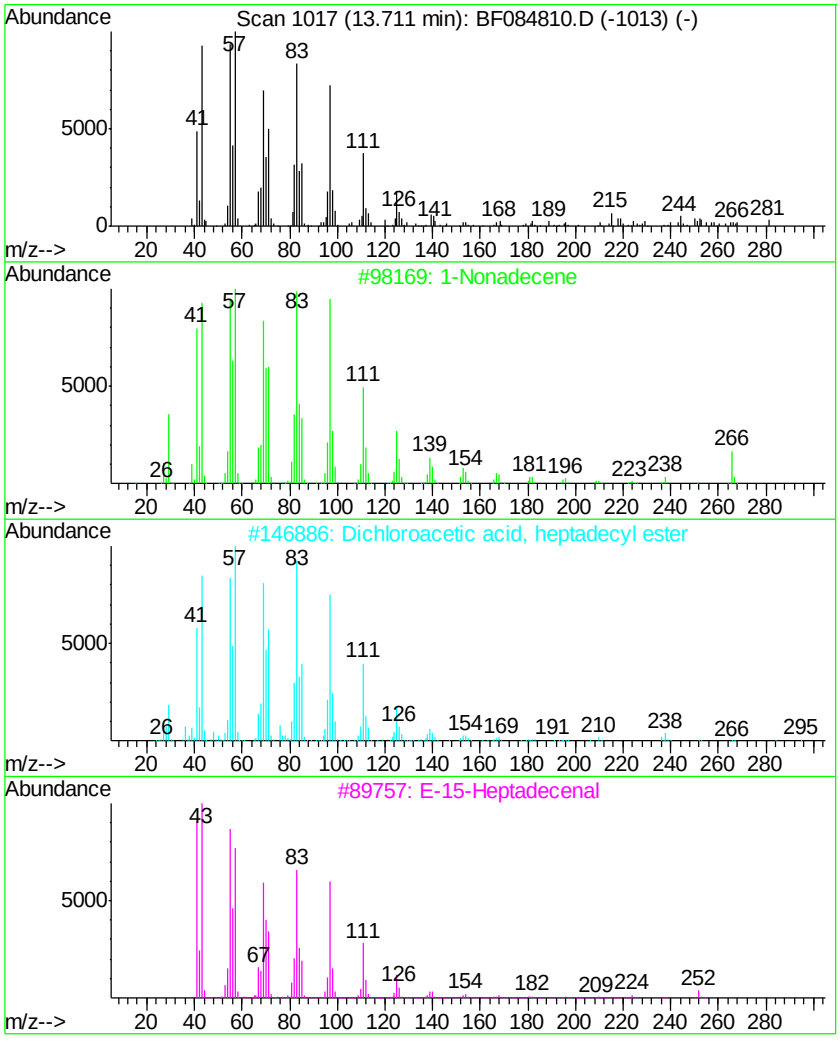
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

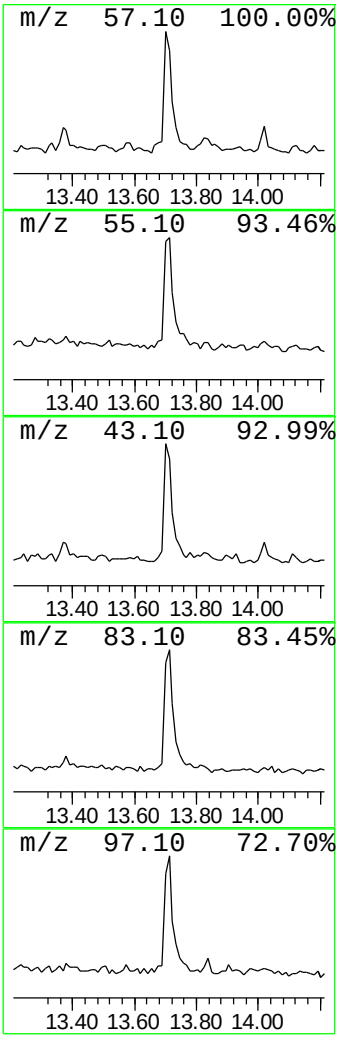
**********

Peak Number 17 1-Nonadecene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.71 | 4.48 ng | 634480 | Chrysene-d12 | 13.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 96 |
| 2 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 95 |
| 3 | E-15-Heptadecenal | 252 | C17H32O | 1000130-97-9 | 94 |
| 4 | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 94 |
| 5 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 92 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

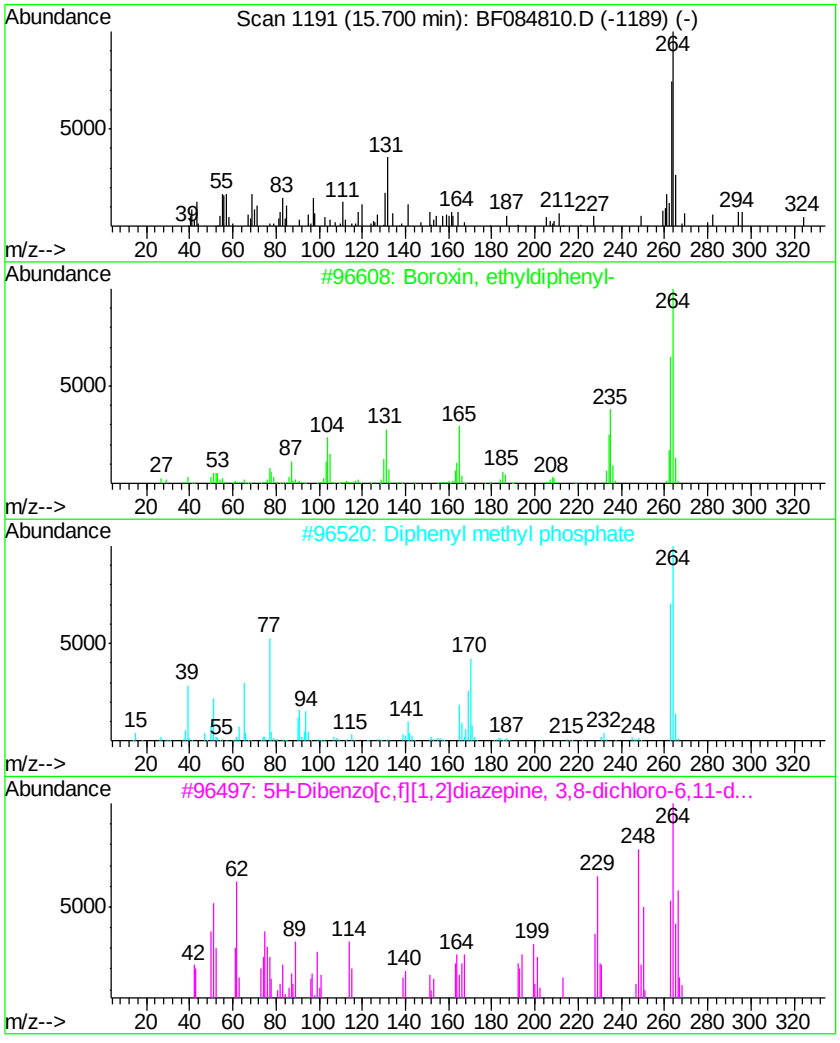
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

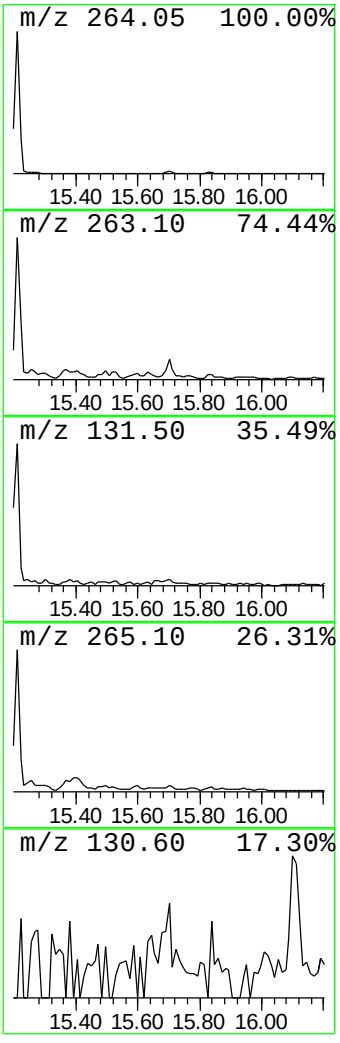
**********

Peak Number 19 unknown15.70 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.70 | 2.34 ng | 129845 | Perylene-d12 | 15.21 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Boroxin, ethyldiphenyl- | 264 | C14H15B3O3 | 1000151-82-0 | 45 |
| 2 | Diphenyl methyl phosphate | 264 | C13H13O4P | 000115-89-9 | 42 |
| 3 | 5H-Dibenzo[c,f][1,2]diazepine, 3... | 264 | C13H10Cl2N2 | 000955-66-8 | 40 |
| 4 | 1H-Pyrazole-4-carbonitrile, 3-(4... | 263 | C12H10ClN3S | 068364-67-0 | 38 |
| 5 | Phenothiazine, 2-chloro-8-methoxy- | 263 | C13H10ClNOS | 017800-09-8 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020316\
Data File : BF084810.D
Acq On : 4 Feb 2016 3:12
Operator : SJ/IZ
Sample : H1312-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B036(25-27)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.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... | 4.83 | 30.8 | ng | 1751060 | 1 | 6.68 | 1137090 | 20.0 |
| .alpha.-Pinene | 5.94 | 9.5 | ng | 541603 | 1 | 6.68 | 1137090 | 20.0 |
| unknown6.45 | 6.45 | 68.8 | ng | 3914150 | 1 | 6.68 | 1137090 | 20.0 |
| Benzene, 1-methyl... | 6.76 | 18.6 | ng | 1054550 | 1 | 6.68 | 1137090 | 20.0 |
| Naphthalene, 2,7-... | 9.38 | 2.0 | ng | 179909 | 3 | 9.72 | 1797710 | 20.0 |
| Dibenzothiophene | 11.09 | 2.8 | ng | 326217 | 4 | 11.21 | 2373430 | 20.0 |
| Phenanthrene, 2-m... | 11.70 | 3.9 | ng | 464973 | 4 | 11.21 | 2373430 | 20.0 |
| Benzaldehyde, 3,5... | 11.81 | 9.6 | ng | 1140900 | 4 | 11.21 | 2373430 | 20.0 |
| Phenanthrene, 2,5... | 12.25 | 3.5 | ng | 414750 | 4 | 11.21 | 2373430 | 20.0 |
| Phenanthrene, 2,7... | 12.28 | 2.2 | ng | 259279 | 4 | 11.21 | 2373430 | 20.0 |
| Pyrene, 1-methyl- | 12.85 | 2.1 | ng | 292436 | 5 | 13.84 | 2830590 | 20.0 |
| 11H-Benzo[b]fluorene | 12.97 | 3.1 | ng | 442183 | 5 | 13.84 | 2830590 | 20.0 |
| 1-Nonadecene | 13.71 | 4.5 | ng | 634480 | 5 | 13.84 | 2830590 | 20.0 |
| unknown15.70 | 15.70 | 2.3 | ng | 129845 | 6 | 15.21 | 1110090 | 20.0 |