LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
Data File : BF090926.D
Acq On : 31 Oct 2016 14:22
Operator : UM/SJ
Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-2COMP(0-16FEET)RE

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.978 | 76 | 78 | 92 | rBV | 66531 | 164759 | 3.00% | 0.281% |
| 2 | 4.910 | 244 | 247 | 257 | rBV | 824395 | 1401255 | 25.50% | 2.389% |
| 3 | 5.344 | 282 | 285 | 288 | rBV | 3599086 | 5199682 | 94.63% | 8.867% |
| 4 | 6.396 | 374 | 377 | 380 | rBV | 3843136 | 4901431 | 89.20% | 8.358% |
| 5 | 6.522 | 385 | 388 | 390 | rBV | 4907472 | 5494600 | 100.00% | 9.369% |
| 6 | 6.750 | 406 | 408 | 410 | rBV | 894859 | 952861 | 17.34% | 1.625% |
| 7 | 6.830 | 413 | 415 | 417 | rVB | 71884 | 70152 | 1.28% | 0.120% |
| 8 | 6.899 | 419 | 421 | 424 | rBV | 2898412 | 3838288 | 69.86% | 6.545% |
| 9 | 7.162 | 442 | 444 | 454 | rVB | 300777 | 513604 | 9.35% | 0.876% |
| 10 | 7.322 | 454 | 458 | 460 | rBV | 2668418 | 3661392 | 66.64% | 6.243% |
| 11 | 7.413 | 464 | 466 | 474 | rVB | 27973 | 65501 | 1.19% | 0.112% |
| 12 | 7.825 | 500 | 502 | 511 | rVB | 27197 | 63610 | 1.16% | 0.108% |
| 13 | 8.030 | 518 | 520 | 526 | rBV2 | 1432437 | 1609180 | 29.29% | 2.744% |
| 14 | 8.842 | 589 | 591 | 595 | rVB | 61958 | 57402 | 1.04% | 0.098% |
| 15 | 9.116 | 612 | 615 | 617 | rBV | 4793187 | 5320118 | 96.82% | 9.072% |
| 16 | 9.230 | 620 | 625 | 626 | rVV4 | 25657 | 65086 | 1.18% | 0.111% |
| 17 | 9.448 | 642 | 644 | 647 | rBV | 42856 | 83925 | 1.53% | 0.143% |
| 18 | 9.505 | 647 | 649 | 652 | rBV | 1316478 | 1500287 | 27.30% | 2.558% |
| 19 | 9.722 | 663 | 668 | 671 | rBV2 | 37176 | 65703 | 1.20% | 0.112% |
| 20 | 9.779 | 671 | 673 | 675 | rBV | 1317633 | 1459432 | 26.56% | 2.489% |
| 21 | 9.813 | 675 | 676 | 678 | rVB | 246633 | 206246 | 3.75% | 0.352% |
| 22 | 9.985 | 690 | 691 | 693 | rBV | 96132 | 104990 | 1.91% | 0.179% |
| 23 | 10.225 | 711 | 712 | 714 | rVB | 70108 | 55013 | 1.00% | 0.094% |
| 24 | 10.328 | 720 | 721 | 724 | rVB | 171807 | 158443 | 2.88% | 0.270% |
| 25 | 10.396 | 724 | 727 | 730 | rBV2 | 29498 | 76117 | 1.39% | 0.130% |
| 26 | 10.579 | 740 | 743 | 745 | rBV | 3042882 | 3531725 | 64.28% | 6.022% |
| 27 | 10.693 | 752 | 753 | 757 | rVB | 89392 | 116994 | 2.13% | 0.200% |
| 28 | 10.876 | 766 | 769 | 773 | rBV2 | 39213 | 104003 | 1.89% | 0.177% |
| 29 | 11.025 | 778 | 782 | 783 | rBV4 | 33607 | 70860 | 1.29% | 0.121% |
| 30 | 11.162 | 788 | 794 | 797 | rBV4 | 88663 | 259270 | 4.72% | 0.442% |
| 31 | 11.265 | 801 | 803 | 804 | rBV | 1467597 | 1333745 | 24.27% | 2.274% |
| 32 | 11.345 | 807 | 810 | 812 | rVB | 145179 | 212719 | 3.87% | 0.363% |
| 33 | 11.505 | 820 | 824 | 827 | rBV2 | 86386 | 232515 | 4.23% | 0.396% |
| 34 | 11.574 | 827 | 830 | 831 | rVV3 | 99738 | 152638 | 2.78% | 0.260% |

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Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-2COMP(0-16FEET)RE

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.619 | 831 | 834 | 835 | rBV3 | 27253 | 63355 | 1.15% | 0.108% |
| 36 | 11.768 | 845 | 847 | 848 | rBV | 138831 | 140141 | 2.55% | 0.239% |
| 37 | 11.791 | 848 | 849 | 851 | rVV | 134453 | 164541 | 2.99% | 0.281% |
| 38 | 11.836 | 851 | 853 | 855 | rVV | 56414 | 104025 | 1.89% | 0.177% |
| 39 | 11.882 | 855 | 857 | 861 | rVV2 | 177071 | 391489 | 7.12% | 0.668% |
| 40 | 12.065 | 871 | 873 | 874 | rBV | 81955 | 93884 | 1.71% | 0.160% |
| 41 | 12.214 | 884 | 886 | 892 | rVB3 | 184960 | 389970 | 7.10% | 0.665% |
| 42 | 12.488 | 907 | 910 | 912 | rBV | 1307409 | 1206452 | 21.96% | 2.057% |
| 43 | 12.522 | 912 | 913 | 915 | rVB | 379821 | 279053 | 5.08% | 0.476% |
| 44 | 12.705 | 926 | 929 | 931 | rBV | 1092537 | 1169339 | 21.28% | 1.994% |
| 45 | 12.819 | 937 | 939 | 940 | rBV | 64262 | 67137 | 1.22% | 0.114% |
| 46 | 12.854 | 940 | 942 | 945 | rVV | 3470380 | 3170239 | 57.70% | 5.406% |
| 47 | 12.922 | 946 | 948 | 951 | rVV2 | 53468 | 89168 | 1.62% | 0.152% |
| 48 | 12.991 | 951 | 954 | 955 | rVV | 572700 | 547874 | 9.97% | 0.934% |
| 49 | 13.037 | 955 | 958 | 959 | rVV | 110033 | 162566 | 2.96% | 0.277% |
| 50 | 13.094 | 962 | 963 | 965 | rVV | 84679 | 106382 | 1.94% | 0.181% |
| 51 | 13.139 | 965 | 967 | 971 | rVB2 | 76681 | 134947 | 2.46% | 0.230% |
| 52 | 13.254 | 976 | 977 | 981 | rVB3 | 42800 | 57574 | 1.05% | 0.098% |
| 53 | 13.437 | 990 | 993 | 996 | rBV4 | 34889 | 87213 | 1.59% | 0.149% |
| 54 | 13.654 | 1009 | 1012 | 1013 | rBV2 | 42378 | 84925 | 1.55% | 0.145% |
| 55 | 13.757 | 1019 | 1021 | 1025 | rBV3 | 213095 | 317498 | 5.78% | 0.541% |
| 56 | 13.894 | 1030 | 1033 | 1040 | rVV2 | 963418 | 1769562 | 32.21% | 3.017% |
| 57 | 14.008 | 1040 | 1043 | 1044 | rVB2 | 45467 | 62075 | 1.13% | 0.106% |
| 58 | 14.282 | 1065 | 1067 | 1069 | rBV | 49717 | 69303 | 1.26% | 0.118% |
| 59 | 14.385 | 1073 | 1076 | 1079 | rBV4 | 64291 | 134803 | 2.45% | 0.230% |
| 60 | 14.911 | 1119 | 1122 | 1126 | rBV | 331209 | 699076 | 12.72% | 1.192% |
| 61 | 15.002 | 1128 | 1130 | 1132 | rVB2 | 90075 | 122216 | 2.22% | 0.208% |
| 62 | 15.185 | 1143 | 1146 | 1149 | rVB | 215812 | 283030 | 5.15% | 0.483% |
| 63 | 15.243 | 1149 | 1151 | 1153 | rVV | 328076 | 402291 | 7.32% | 0.686% |
| 64 | 15.300 | 1153 | 1156 | 1166 | rVB | 836323 | 1203011 | 21.89% | 2.051% |
| 65 | 15.940 | 1210 | 1212 | 1218 | rVB5 | 58598 | 120078 | 2.19% | 0.205% |
| 66 | 16.225 | 1235 | 1237 | 1241 | rVB | 29646 | 64569 | 1.18% | 0.110% |
| 67 | 16.465 | 1255 | 1258 | 1263 | rBV3 | 36802 | 113143 | 2.06% | 0.193% |
| 68 | 16.625 | 1269 | 1272 | 1278 | rVB2 | 151234 | 329874 | 6.00% | 0.563% |
| 69 | 16.785 | 1284 | 1286 | 1289 | rBV | 40393 | 90717 | 1.65% | 0.155% |
| 70 | 16.946 | 1297 | 1300 | 1303 | rVB2 | 48552 | 108438 | 1.97% | 0.185% |
| 71 | 17.026 | 1304 | 1307 | 1312 | rVV | 142487 | 309618 | 5.63% | 0.528% |

LSC Area Percent Report

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Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-2COMP(0-16FEET)RE

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 17.186 | 1316 | 1321 | 1324 | rVV5 | 44537 | 165517 | 3.01% | 0.282% |
| 73 | 17.243 | 1324 | 1326 | 1333 | rVV2 | 63900 | 154615 | 2.81% | 0.264% |
| 74 | 17.346 | 1333 | 1335 | 1339 | rVB3 | 31919 | 70888 | 1.29% | 0.121% |
| 75 | 17.677 | 1362 | 1364 | 1372 | rVB6 | 51293 | 135251 | 2.46% | 0.231% |
| 76 | 18.100 | 1397 | 1401 | 1405 | rVB6 | 29515 | 70447 | 1.28% | 0.120% |
| 77 | 19.049 | 1482 | 1484 | 1491 | rVB | 32643 | 98670 | 1.80% | 0.168% |
| 78 | 19.231 | 1494 | 1500 | 1505 | rBV3 | 28828 | 135039 | 2.46% | 0.230% |

Sum of corrected areas: 58643549

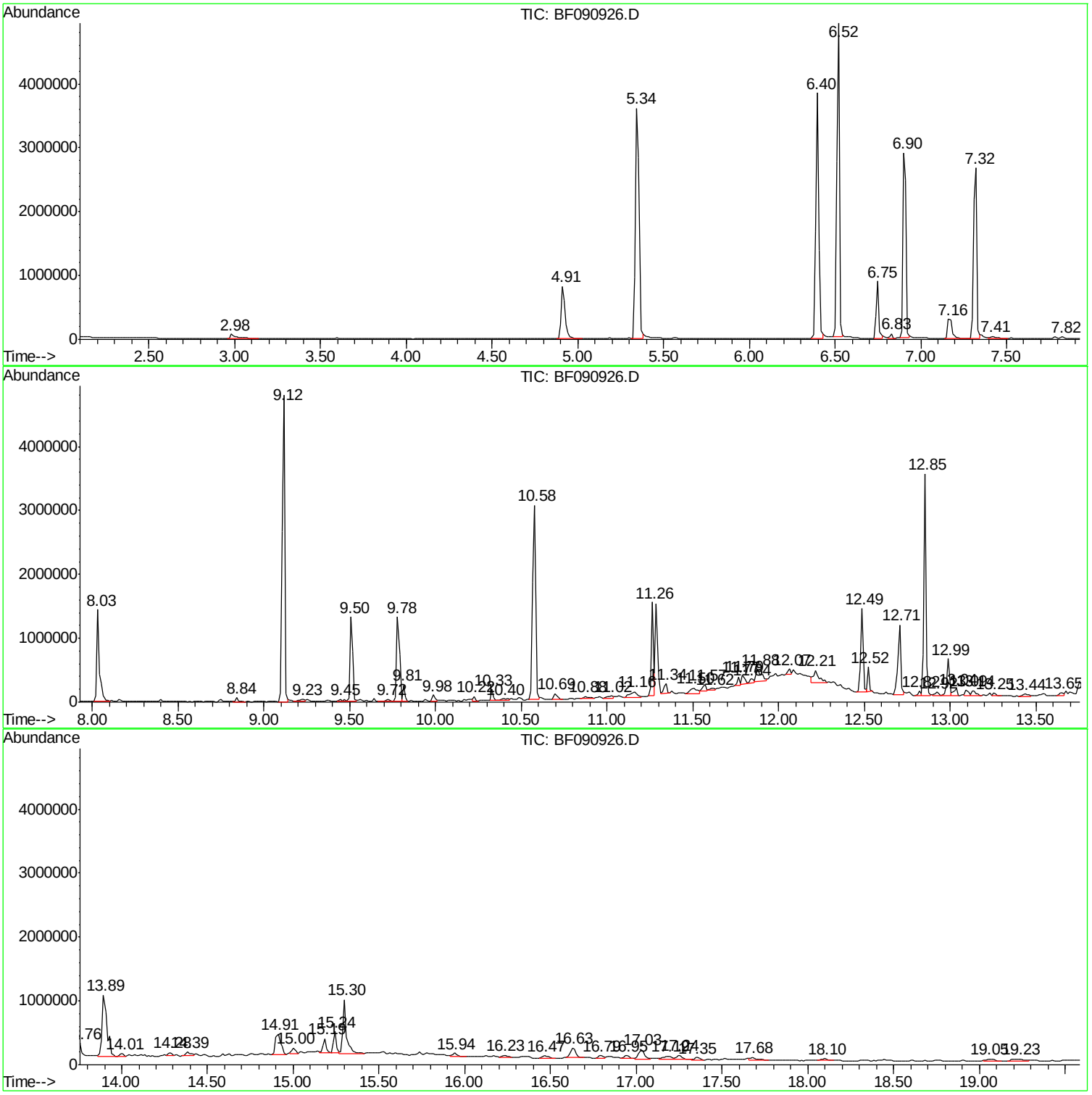
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF103116\
Data File : BF090926.D
Acq On : 31 Oct 2016 14:22
Operator : UM/SJ
Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-2COMP(0-16FEET)RE

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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\BF103116\
Data File : BF090926.D
Acq On : 31 Oct 2016 14:22
Operator : UM/SJ
Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-2COMP(0-16FEET)RE

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

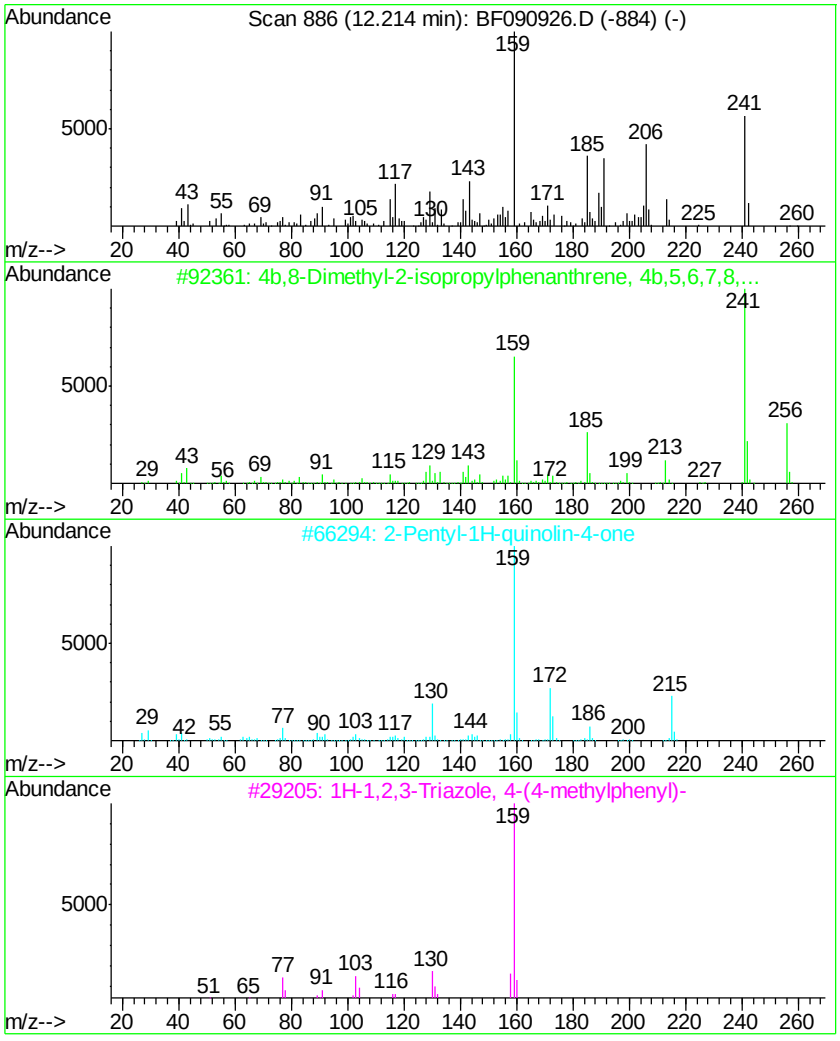
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

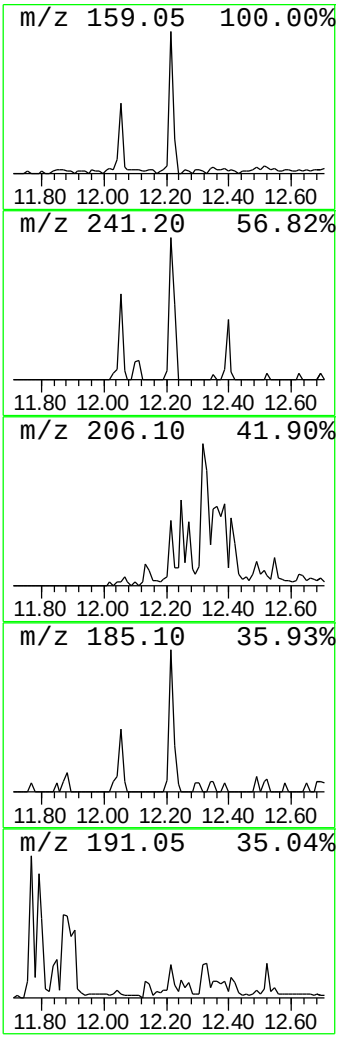
**********

Peak Number 10 unknown12.21 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.21 | 5.85 ng | 389970 | Phenanthrene-d10 | 11.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28 | 1000197-14-1 | 47 |
| 2 | 2-Pentyl-1H-quinolin-4-one | 215 | C14H17NO | 109072-26-6 | 14 |
| 3 | 1H-1,2,3-Triazole, 4-(4-methylph... | 159 | C9H9N3 | 005301-96-2 | 14 |
| 4 | Uracil, 5-(p-cyanophenyl)-1,3-di... | 241 | C13H11N3O2 | 1000164-78-4 | 11 |
| 5 | 2-Naphthalenol, 1-amino- | 159 | C10H9NO | 002834-92-6 | 10 |



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ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

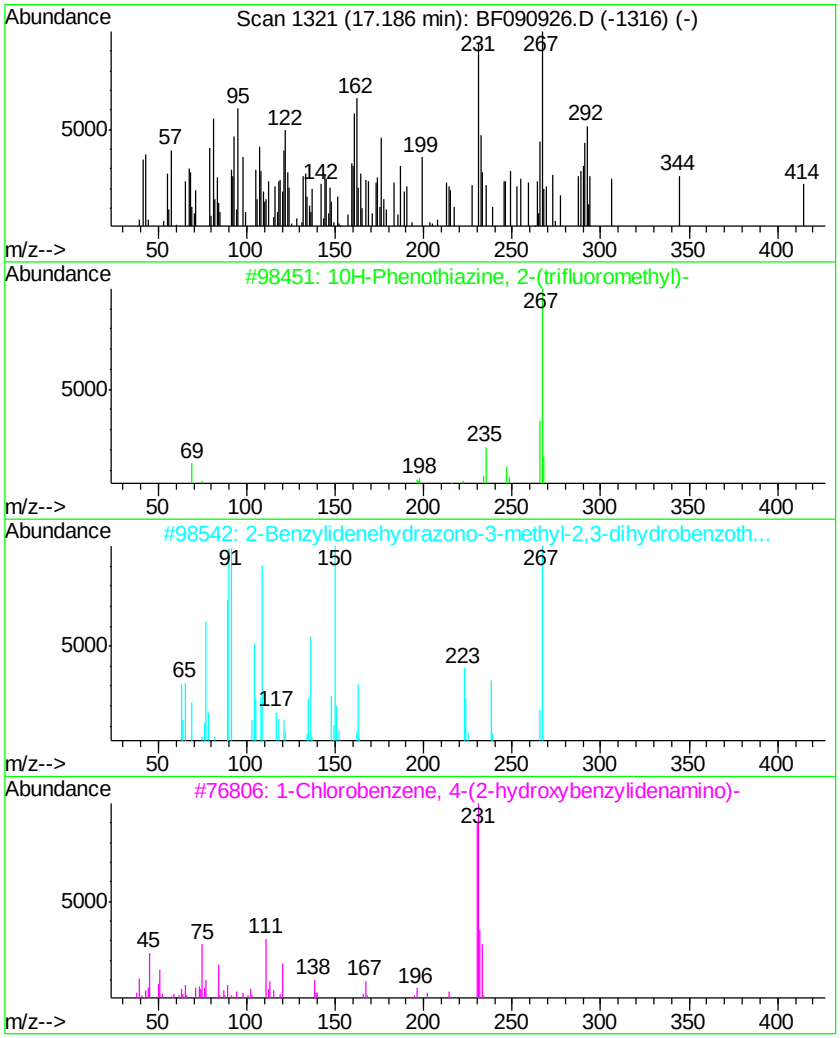
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

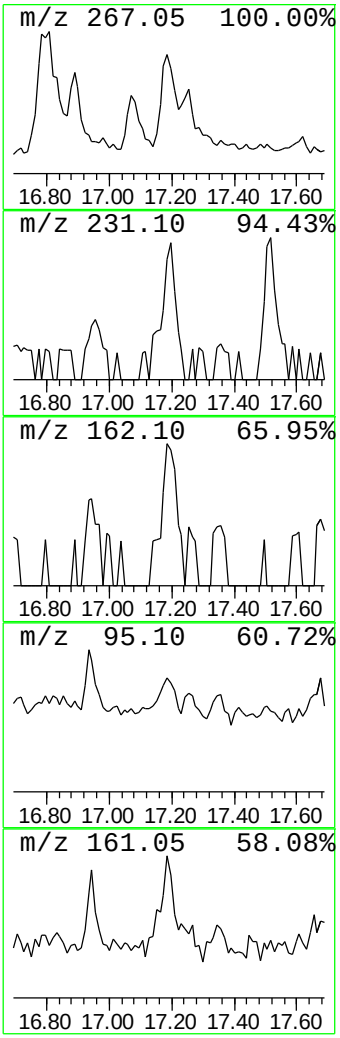
**********

Peak Number 15 unknown17.19 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.19 | 2.75 ng | 165517 | Perylene-d12 | 15.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10H-Phenothiazine, 2-(trifluorom... | 267 | C13H8F3NS | 000092-30-8 | 18 |
| 2 | 2-Benzylidenehydrazono-3-methyl-... | 267 | C15H13N3S | 1000146-59-1 | 18 |
| 3 | 1-Chlorobenzene, 4-(2-hydroxyben... | 231 | C13H10ClNO | 1000221-93-4 | 14 |
| 4 | 6-Chloromethyl-benzo[4,5]imidazo... | 267 | C15H10ClN3 | 070371-92-5 | 14 |
| 5 | 7H-Dibenzo[c,g]carbazole | 267 | C20H13N | 000194-59-2 | 11 |



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Sample : H5423-03RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-2COMP(0-16FEET)RE

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

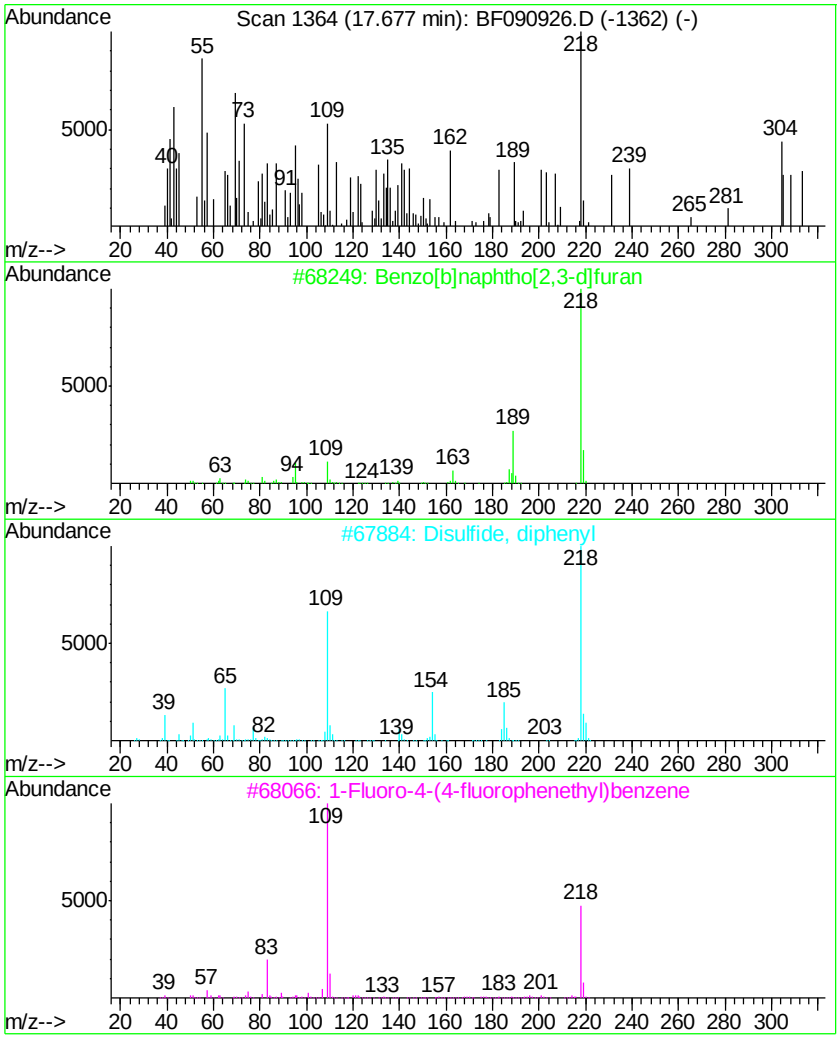
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

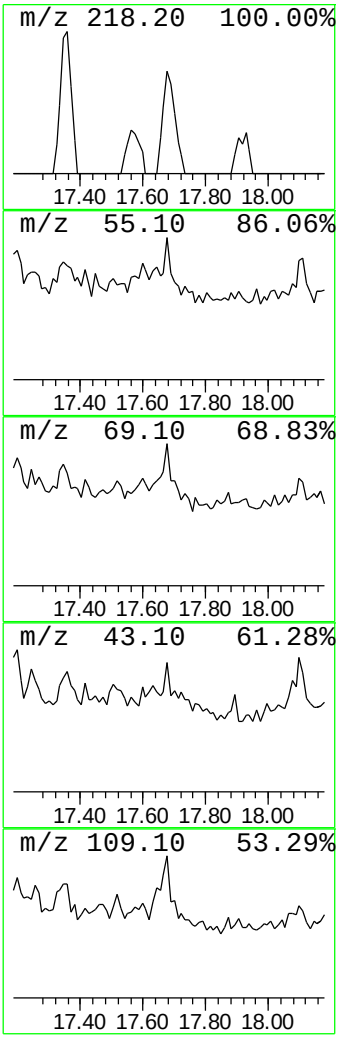
**********

Peak Number 17 unknown17.68 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.68 | 2.25 ng | 135251 | Perylene-d12 | 15.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 22 |
| 2 | Disulfide, diphenyl | 218 | C12H10S2 | 000882-33-7 | 18 |
| 3 | 1-Fluoro-4-(4-fluorophenethyl)be... | 218 | C14H12F2 | 000458-76-4 | 14 |
| 4 | 2,4(1H,3H)-Quinazolinedione, 1,3... | 218 | C12H14N2O2 | 002049-84-5 | 14 |
| 5 | 8-Amino-2,6-dimethoxylepidine | 218 | C12H14N2O2 | 074509-65-2 | 11 |



Tentatively Identified Compound (LSC) summary

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**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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 |
| unknown12.21 | 12.21 | 5.8 | ng | 389970 | 4 | 11.27 | 1333750 | 20.0 |
| unknown17.19 | 17.19 | 2.8 | ng | 165517 | 6 | 15.30 | 1203010 | 20.0 |
| unknown17.68 | 17.68 | 2.3 | ng | 135251 | 6 | 15.30 | 1203010 | 20.0 |