LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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 | 4.796 | 234 | 237 | 244 | rVB | 1302854 | 1755396 | 45.68% | 2.442% |
| 2 | 5.196 | 268 | 272 | 274 | rBV2 | 137559 | 202966 | 5.28% | 0.282% |
| 3 | 5.241 | 274 | 276 | 279 | rBV | 2920817 | 2756018 | 71.72% | 3.833% |
| 4 | 5.882 | 330 | 332 | 335 | rBV | 406668 | 455490 | 11.85% | 0.634% |
| 5 | 5.939 | 335 | 337 | 341 | rBV | 172437 | 249773 | 6.50% | 0.347% |
| 6 | 6.076 | 346 | 349 | 352 | rBV3 | 140846 | 261992 | 6.82% | 0.364% |
| 7 | 6.144 | 352 | 355 | 356 | rVV | 273517 | 325932 | 8.48% | 0.453% |
| 8 | 6.179 | 356 | 358 | 362 | rVV2 | 282040 | 423787 | 11.03% | 0.589% |
| 9 | 6.236 | 362 | 363 | 366 | rVV | 248057 | 275737 | 7.18% | 0.384% |
| 10 | 6.304 | 366 | 369 | 371 | rVV | 3519942 | 3711751 | 96.60% | 5.163% |
| 11 | 6.384 | 374 | 376 | 377 | rVV | 205332 | 299146 | 7.79% | 0.416% |
| 12 | 6.419 | 377 | 379 | 381 | rVV | 3880445 | 3629555 | 94.46% | 5.049% |
| 13 | 6.487 | 381 | 385 | 388 | rVV3 | 189821 | 425752 | 11.08% | 0.592% |
| 14 | 6.613 | 392 | 396 | 397 | rVV4 | 136010 | 351091 | 9.14% | 0.488% |
| 15 | 6.647 | 397 | 399 | 400 | rVV | 1473542 | 1343139 | 34.95% | 1.868% |
| 16 | 6.670 | 400 | 401 | 403 | rVV | 590409 | 571718 | 14.88% | 0.795% |
| 17 | 6.716 | 403 | 405 | 407 | rVV3 | 147070 | 342240 | 8.91% | 0.476% |
| 18 | 6.773 | 409 | 410 | 411 | rVV | 167652 | 207863 | 5.41% | 0.289% |
| 19 | 6.807 | 411 | 413 | 415 | rVV | 3799266 | 3792654 | 98.70% | 5.275% |
| 20 | 6.933 | 417 | 424 | 426 | rVV4 | 253522 | 894113 | 23.27% | 1.244% |
| 21 | 6.967 | 426 | 427 | 429 | rVV2 | 318777 | 437340 | 11.38% | 0.608% |
| 22 | 7.002 | 429 | 430 | 432 | rVV | 404606 | 414936 | 10.80% | 0.577% |
| 23 | 7.047 | 432 | 434 | 439 | rVV | 444553 | 844888 | 21.99% | 1.175% |
| 24 | 7.127 | 439 | 441 | 442 | rVV2 | 119311 | 201417 | 5.24% | 0.280% |
| 25 | 7.219 | 444 | 449 | 452 | rVV | 2410858 | 3445708 | 89.67% | 4.793% |
| 26 | 7.265 | 452 | 453 | 454 | rVV | 294663 | 248130 | 6.46% | 0.345% |
| 27 | 7.310 | 454 | 457 | 458 | rVV2 | 302095 | 580158 | 15.10% | 0.807% |
| 28 | 7.345 | 458 | 460 | 461 | rVV2 | 192055 | 300692 | 7.83% | 0.418% |
| 29 | 7.379 | 461 | 463 | 464 | rVV | 327892 | 432889 | 11.27% | 0.602% |
| 30 | 7.425 | 464 | 467 | 468 | rVV3 | 220365 | 423022 | 11.01% | 0.588% |
| 31 | 7.459 | 468 | 470 | 472 | rVV2 | 393595 | 611123 | 15.90% | 0.850% |
| 32 | 7.516 | 472 | 475 | 476 | rVV3 | 115064 | 280338 | 7.30% | 0.390% |
| 33 | 7.573 | 476 | 480 | 481 | rVV2 | 434141 | 838230 | 21.81% | 1.166% |
| 34 | 7.630 | 484 | 485 | 487 | rVV2 | 263840 | 326098 | 8.49% | 0.454% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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 | 7.665 | 487 | 488 | 490 | rVV2 | 237367 | 420945 | 10.95% | 0.586% |
| 36 | 7.710 | 490 | 492 | 494 | rVV2 | 257507 | 461818 | 12.02% | 0.642% |
| 37 | 7.745 | 494 | 495 | 499 | rVV3 | 216246 | 470451 | 12.24% | 0.654% |
| 38 | 7.813 | 499 | 501 | 503 | rVV | 132350 | 234850 | 6.11% | 0.327% |
| 39 | 7.893 | 505 | 508 | 509 | rVV3 | 152766 | 346984 | 9.03% | 0.483% |
| 40 | 7.939 | 509 | 512 | 513 | rVV | 1829779 | 2023687 | 52.66% | 2.815% |
| 41 | 7.962 | 513 | 514 | 517 | rVV2 | 273929 | 461172 | 12.00% | 0.641% |
| 42 | 8.019 | 517 | 519 | 522 | rVV2 | 198648 | 405305 | 10.55% | 0.564% |
| 43 | 8.236 | 532 | 538 | 540 | rVV5 | 99182 | 287236 | 7.48% | 0.400% |
| 44 | 8.545 | 563 | 565 | 566 | rVV | 214433 | 209374 | 5.45% | 0.291% |
| 45 | 8.648 | 571 | 574 | 576 | rVB2 | 152827 | 184992 | 4.81% | 0.257% |
| 46 | 9.013 | 604 | 606 | 609 | rVV | 3574342 | 3842576 | 100.00% | 5.345% |
| 47 | 9.105 | 611 | 614 | 616 | rVV | 451811 | 439435 | 11.44% | 0.611% |
| 48 | 9.276 | 626 | 629 | 631 | rBV | 132788 | 203884 | 5.31% | 0.284% |
| 49 | 9.345 | 633 | 635 | 636 | rVV | 213993 | 235896 | 6.14% | 0.328% |
| 50 | 9.379 | 636 | 638 | 639 | rVV2 | 118475 | 182988 | 4.76% | 0.255% |
| 51 | 9.413 | 639 | 641 | 643 | rVV2 | 690632 | 778225 | 20.25% | 1.082% |
| 52 | 9.459 | 643 | 645 | 650 | rVB4 | 97321 | 240287 | 6.25% | 0.334% |
| 53 | 9.630 | 659 | 660 | 662 | rVV | 554816 | 484958 | 12.62% | 0.675% |
| 54 | 9.688 | 662 | 665 | 666 | rVV | 1645719 | 1657426 | 43.13% | 2.305% |
| 55 | 9.710 | 666 | 667 | 672 | rVV | 155992 | 246423 | 6.41% | 0.343% |
| 56 | 9.893 | 680 | 683 | 684 | rVV2 | 194803 | 277255 | 7.22% | 0.386% |
| 57 | 10.133 | 702 | 704 | 705 | rVV | 460490 | 419536 | 10.92% | 0.584% |
| 58 | 10.225 | 710 | 712 | 716 | rVV2 | 225570 | 299484 | 7.79% | 0.417% |
| 59 | 10.293 | 716 | 718 | 721 | rVV2 | 143646 | 255316 | 6.64% | 0.355% |
| 60 | 10.351 | 721 | 723 | 725 | rVV2 | 235318 | 350718 | 9.13% | 0.488% |
| 61 | 10.465 | 731 | 733 | 735 | rVV2 | 726178 | 833943 | 21.70% | 1.160% |
| 62 | 10.602 | 743 | 745 | 748 | rVV | 443201 | 605270 | 15.75% | 0.842% |
| 63 | 11.048 | 783 | 784 | 786 | rBV2 | 211502 | 254855 | 6.63% | 0.354% |
| 64 | 11.162 | 792 | 794 | 795 | rBV | 1476882 | 1360011 | 35.39% | 1.892% |
| 65 | 11.185 | 795 | 796 | 798 | rVV | 1773812 | 1425264 | 37.09% | 1.982% |
| 66 | 11.231 | 798 | 800 | 802 | rVB | 252681 | 363207 | 9.45% | 0.505% |
| 67 | 11.665 | 836 | 838 | 839 | rVV | 466017 | 439235 | 11.43% | 0.611% |
| 68 | 11.688 | 839 | 840 | 843 | rVB | 464057 | 440859 | 11.47% | 0.613% |
| 69 | 11.734 | 843 | 844 | 846 | rBV | 214087 | 269093 | 7.00% | 0.374% |
| 70 | 11.768 | 846 | 847 | 852 | rVB | 620321 | 1057777 | 27.53% | 1.471% |
| 71 | 11.962 | 861 | 864 | 865 | rBV | 273658 | 330514 | 8.60% | 0.460% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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 | 12.111 | 874 | 877 | 878 | rBV2 | 144510 | 213949 | 5.57% | 0.298% |
| 73 | 12.214 | 884 | 886 | 887 | rBV | 302377 | 323985 | 8.43% | 0.451% |
| 74 | 12.248 | 887 | 889 | 892 | rVB2 | 184517 | 347376 | 9.04% | 0.483% |
| 75 | 12.294 | 892 | 893 | 896 | rBV2 | 214245 | 279117 | 7.26% | 0.388% |
| 76 | 12.374 | 897 | 900 | 902 | rVV | 1414522 | 1466499 | 38.16% | 2.040% |
| 77 | 12.511 | 910 | 912 | 915 | rBV4 | 111881 | 211191 | 5.50% | 0.294% |
| 78 | 12.602 | 917 | 920 | 922 | rBV | 1652758 | 2407539 | 62.65% | 3.349% |
| 79 | 12.636 | 922 | 923 | 927 | rVB3 | 115136 | 228467 | 5.95% | 0.318% |
| 80 | 12.751 | 931 | 933 | 935 | rBV | 3102517 | 2924737 | 76.11% | 4.068% |
| 81 | 12.922 | 945 | 948 | 950 | rVB | 264688 | 444379 | 11.56% | 0.618% |
| 82 | 12.991 | 952 | 954 | 956 | rBV | 251146 | 241645 | 6.29% | 0.336% |
| 83 | 13.025 | 956 | 957 | 963 | rVB2 | 286615 | 372811 | 9.70% | 0.519% |
| 84 | 13.117 | 963 | 965 | 967 | rBV | 301032 | 356773 | 9.28% | 0.496% |
| 85 | 13.151 | 967 | 968 | 970 | rVB | 250151 | 190731 | 4.96% | 0.265% |
| 86 | 13.231 | 973 | 975 | 978 | rVB | 212760 | 232883 | 6.06% | 0.324% |
| 87 | 13.288 | 978 | 980 | 982 | rBV2 | 178990 | 243685 | 6.34% | 0.339% |
| 88 | 13.334 | 982 | 984 | 986 | rBV | 185337 | 224277 | 5.84% | 0.312% |
| 89 | 13.539 | 1000 | 1002 | 1003 | rBV2 | 163502 | 202915 | 5.28% | 0.282% |
| 90 | 13.665 | 1010 | 1013 | 1016 | rVB2 | 283715 | 523689 | 13.63% | 0.728% |
| 91 | 13.791 | 1021 | 1024 | 1029 | rBV2 | 1373034 | 2403429 | 62.55% | 3.343% |
| 92 | 13.985 | 1038 | 1041 | 1043 | rBV2 | 158294 | 245743 | 6.40% | 0.342% |
| 93 | 14.282 | 1065 | 1067 | 1072 | rVB3 | 236806 | 529524 | 13.78% | 0.737% |
| 94 | 14.580 | 1091 | 1093 | 1095 | rVB2 | 208445 | 221163 | 5.76% | 0.308% |
| 95 | 14.785 | 1109 | 1111 | 1115 | rVB | 361985 | 691628 | 18.00% | 0.962% |
| 96 | 14.877 | 1117 | 1119 | 1121 | rVB2 | 184624 | 201815 | 5.25% | 0.281% |
| 97 | 15.048 | 1132 | 1134 | 1136 | rBV | 218841 | 256134 | 6.67% | 0.356% |
| 98 | 15.105 | 1137 | 1139 | 1142 | rVB | 389164 | 468216 | 12.18% | 0.651% |
| 99 | 15.162 | 1142 | 1144 | 1146 | rBV | 634335 | 750149 | 19.52% | 1.043% |
| 100 | 16.420 | 1252 | 1254 | 1259 | rVB2 | 114433 | 226932 | 5.91% | 0.316% |

Sum of corrected areas: 71893712

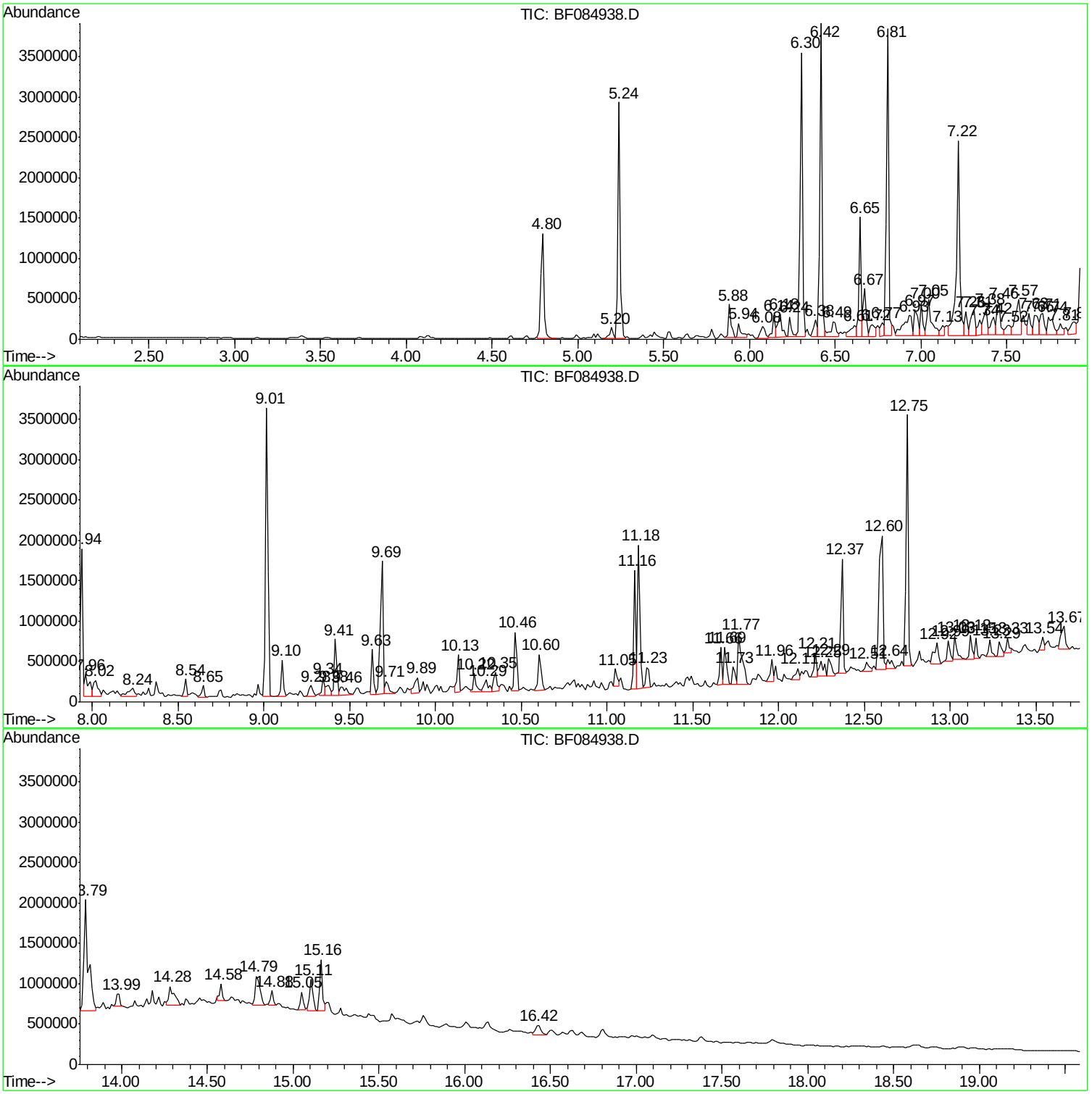
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

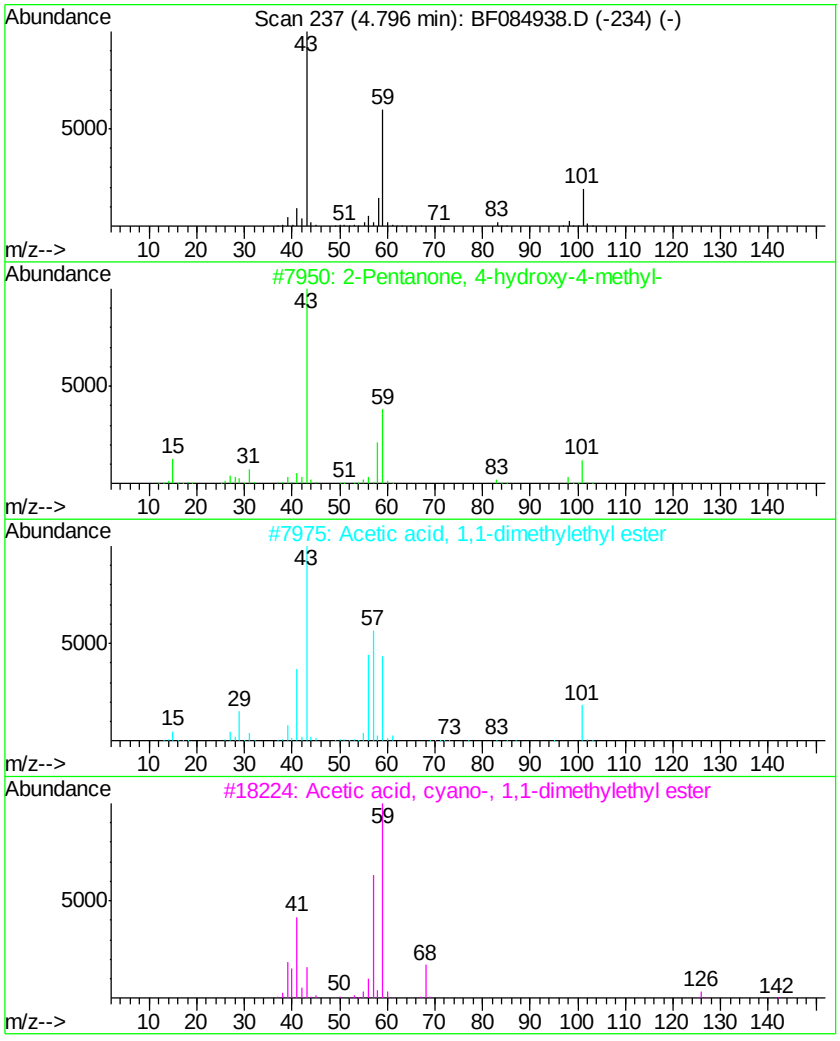
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

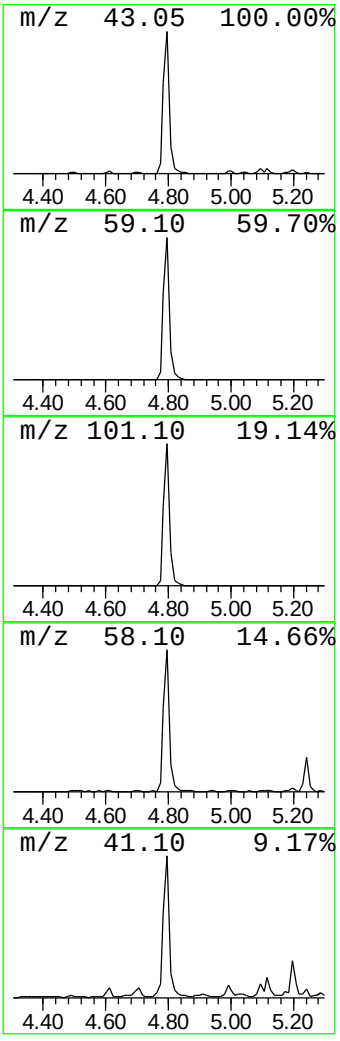
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.80 | 26.14 ng | 1755400 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

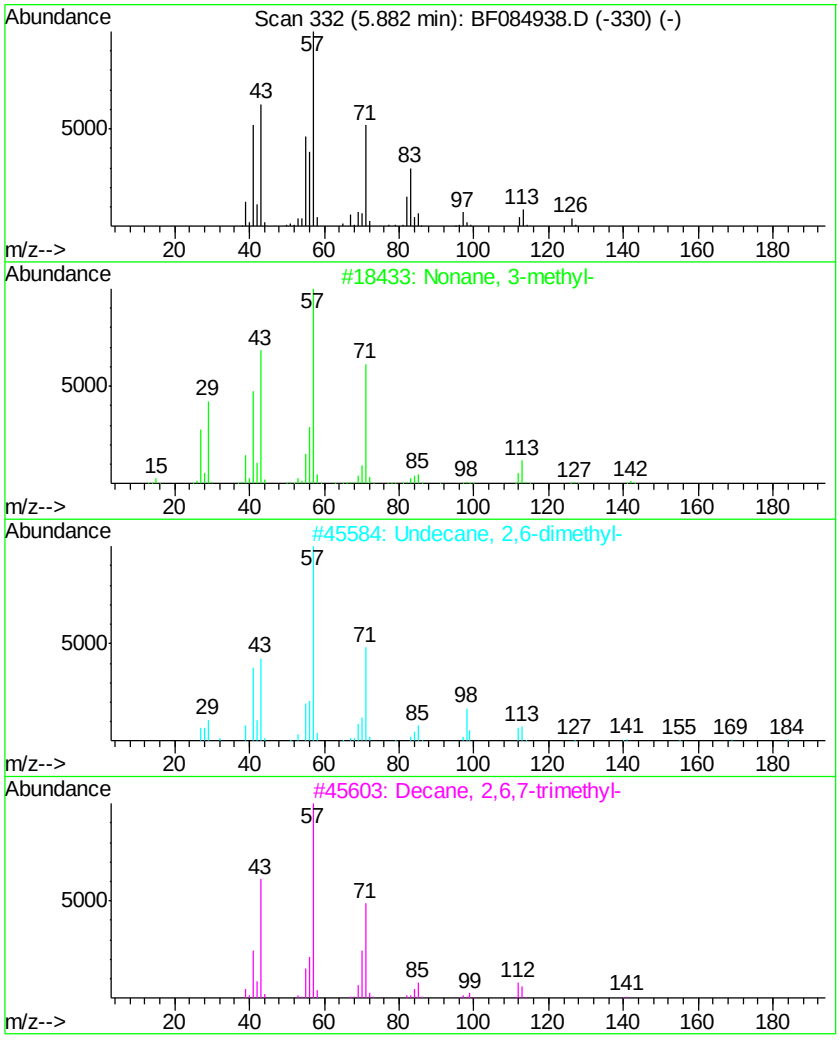
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

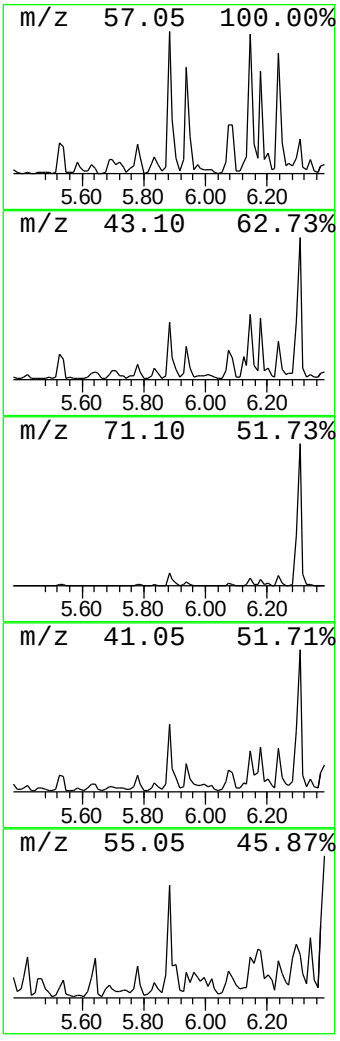
**********

Peak Number 2 Nonane, 3-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.88 | 6.78 ng | 455490 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 59 |
| 2 | Undecane, 2,6-dimethyl- | 184 | C13H28 | 017301-23-4 | 59 |
| 3 | Decane, 2,6,7-trimethyl- | 184 | C13H28 | 062108-25-2 | 59 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 50 |
| 5 | Undecane, 2,5-dimethyl- | 184 | C13H28 | 017301-22-3 | 50 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

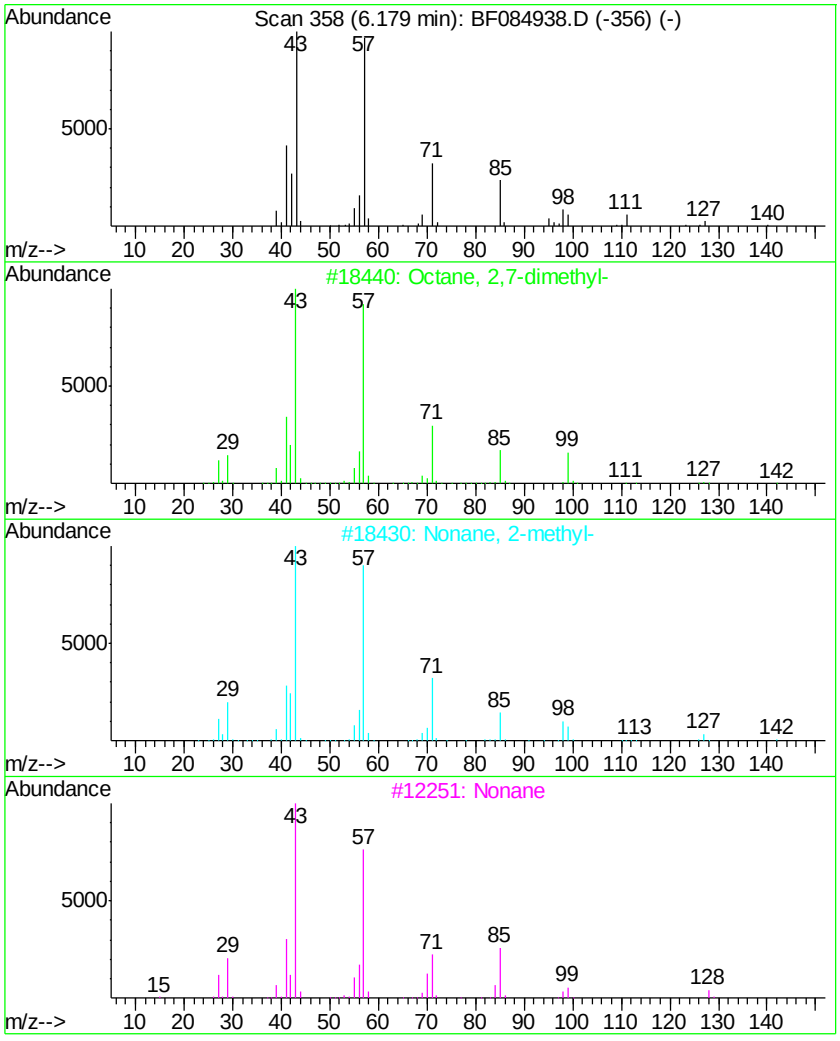
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

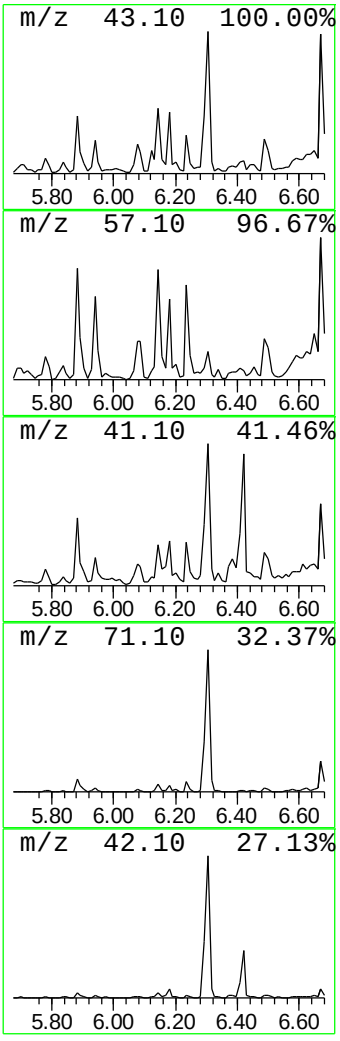
**********

Peak Number 3 Octane, 2,7-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.18 | 6.31 ng | 423787 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,7-dimethyl- | 142 | C10H22 | 001072-16-8 | 72 |
| 2 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 72 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 59 |
| 4 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 59 |
| 5 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 59 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

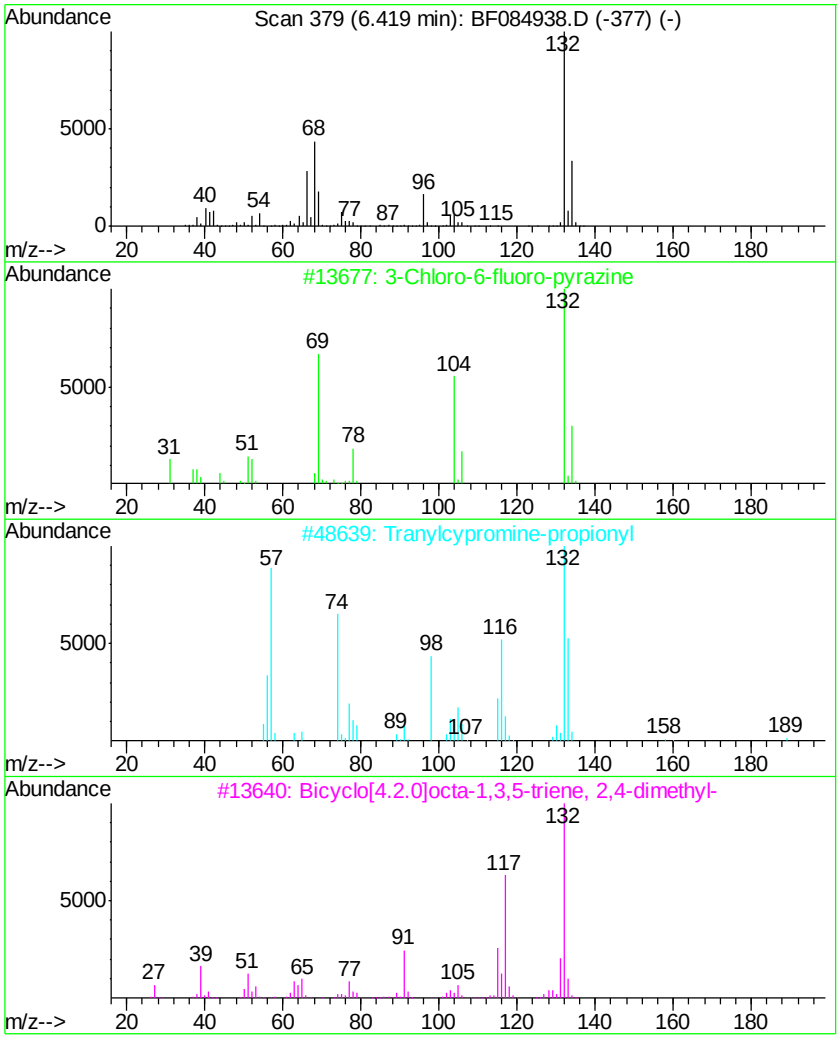
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

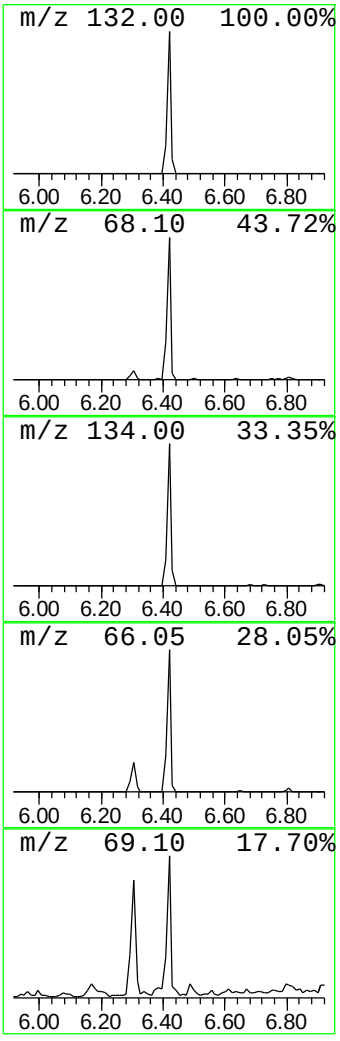
**********

Peak Number 4 unknown6.42 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.42 | 54.05 ng | 3629560 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

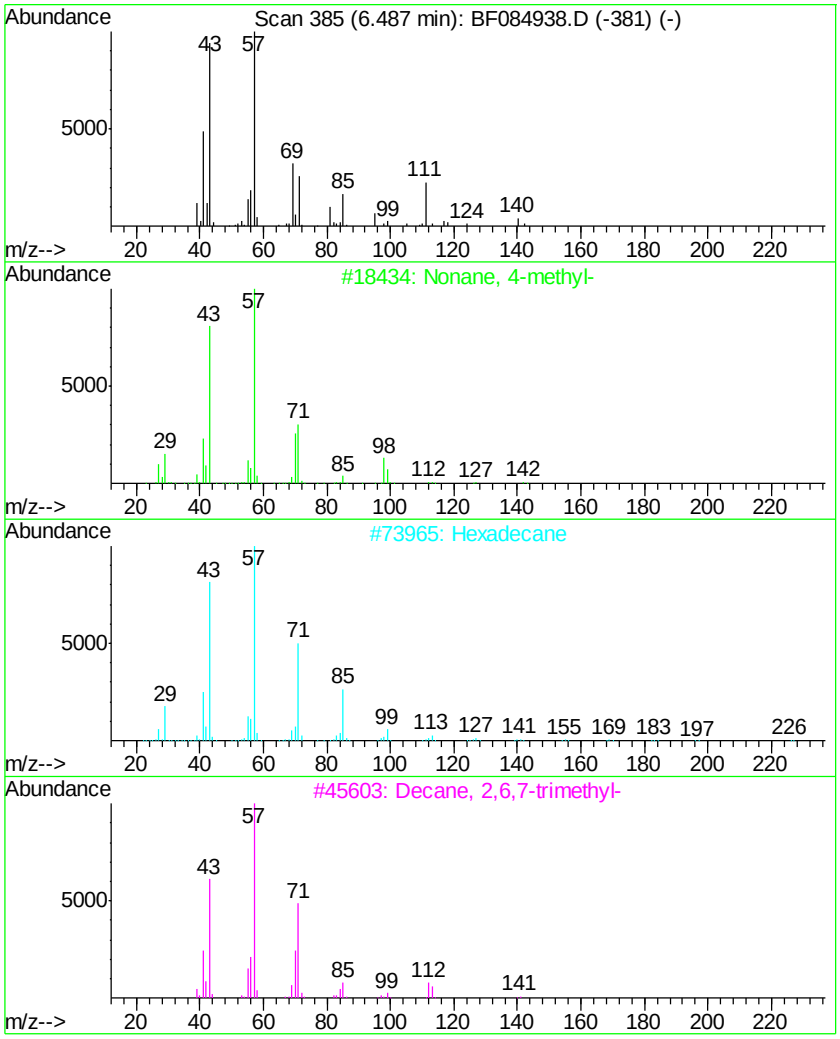
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

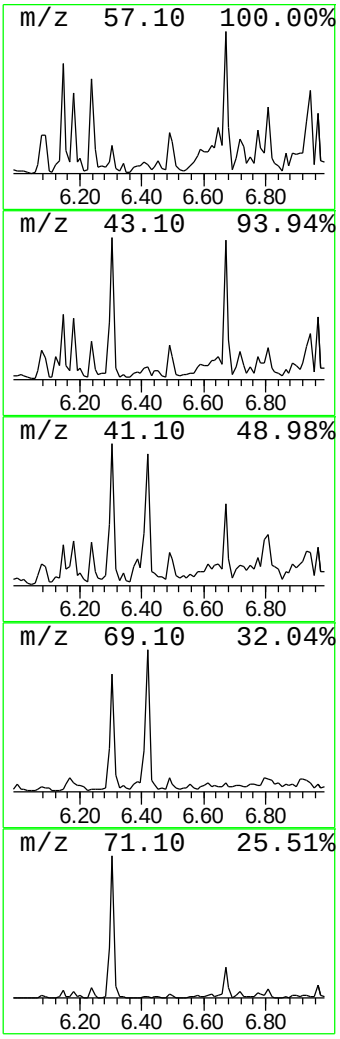
**********

Peak Number 5 unknown6.49 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 6.34 ng | 425752 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 47 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 38 |
| 3 | Decane, 2,6,7-trimethyl- | 184 | C13H28 | 062108-25-2 | 38 |
| 4 | Nonane | 128 | C9H20 | 000111-84-2 | 38 |
| 5 | Decane, 2,6,6-trimethyl- | 184 | C13H28 | 062108-24-1 | 35 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

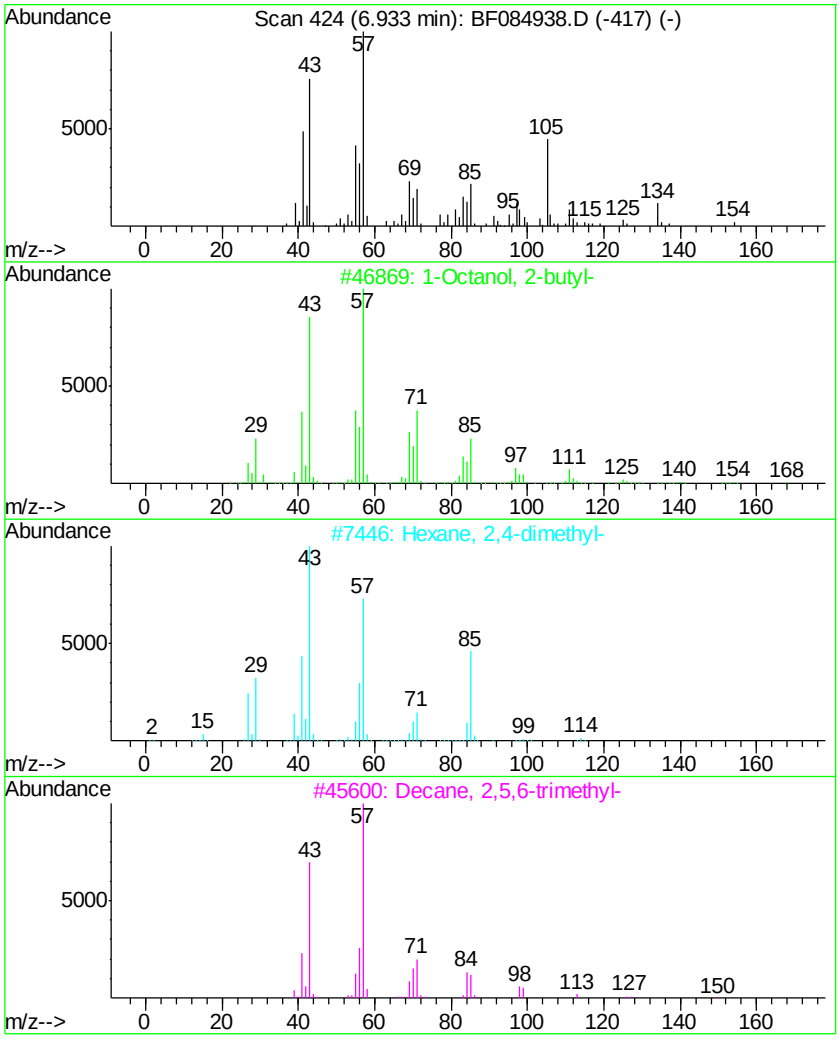
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

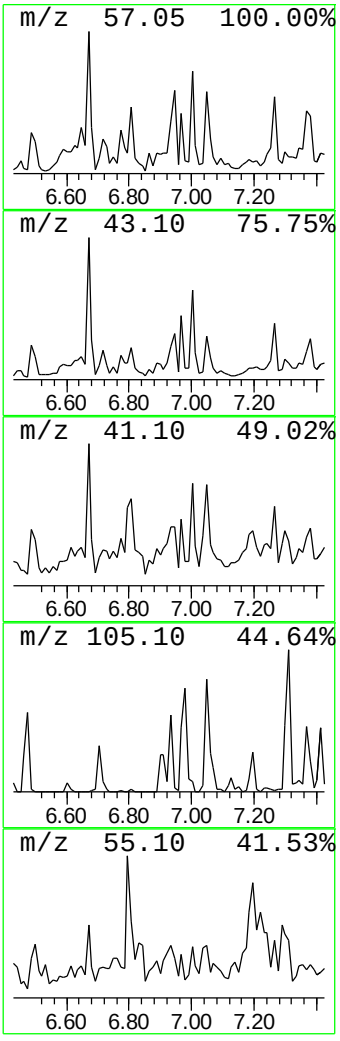
**********

Peak Number 7 1-Octanol, 2-butyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.93 | 13.31 ng | 894113 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Octanol, 2-butyl- | 186 | C12H26O | 003913-02-8 | 52 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 50 |
| 3 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 49 |
| 4 | 2-Methyl-1-undecanol | 186 | C12H26O | 010522-26-6 | 47 |
| 5 | Tridecane, 1-bromo- | 262 | C13H27Br | 000765-09-3 | 47 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

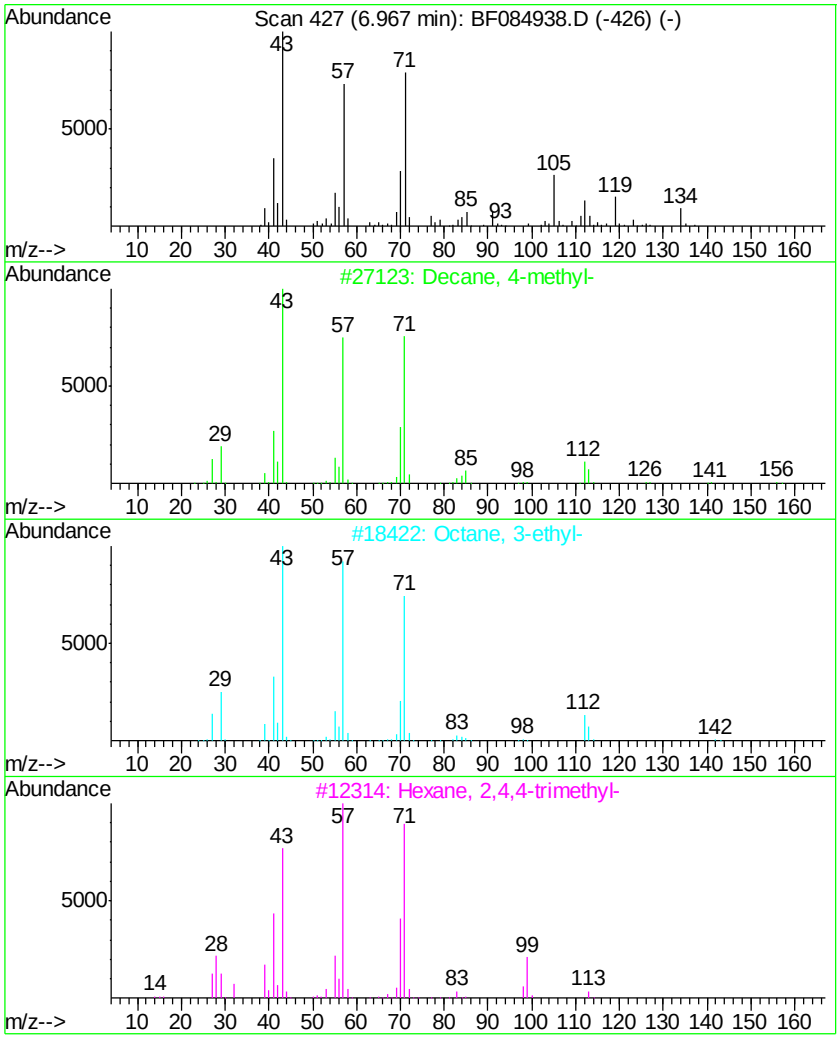
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

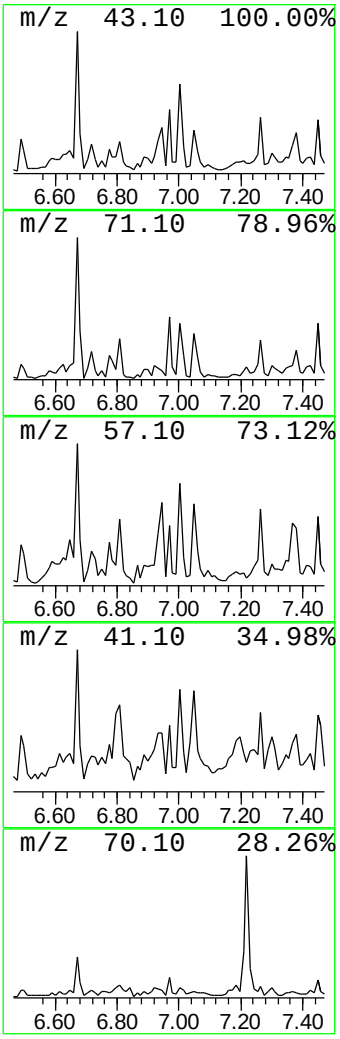
**********

Peak Number 8 Decane, 4-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.97 | 6.51 ng | 437340 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 58 |
| 2 | Octane, 3-ethyl- | 142 | C10H22 | 005881-17-4 | 50 |
| 3 | Hexane, 2,4,4-trimethyl- | 128 | C9H20 | 016747-30-1 | 50 |
| 4 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 50 |
| 5 | Heptane, 3,3-dimethyl- | 128 | C9H20 | 004032-86-4 | 50 |



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Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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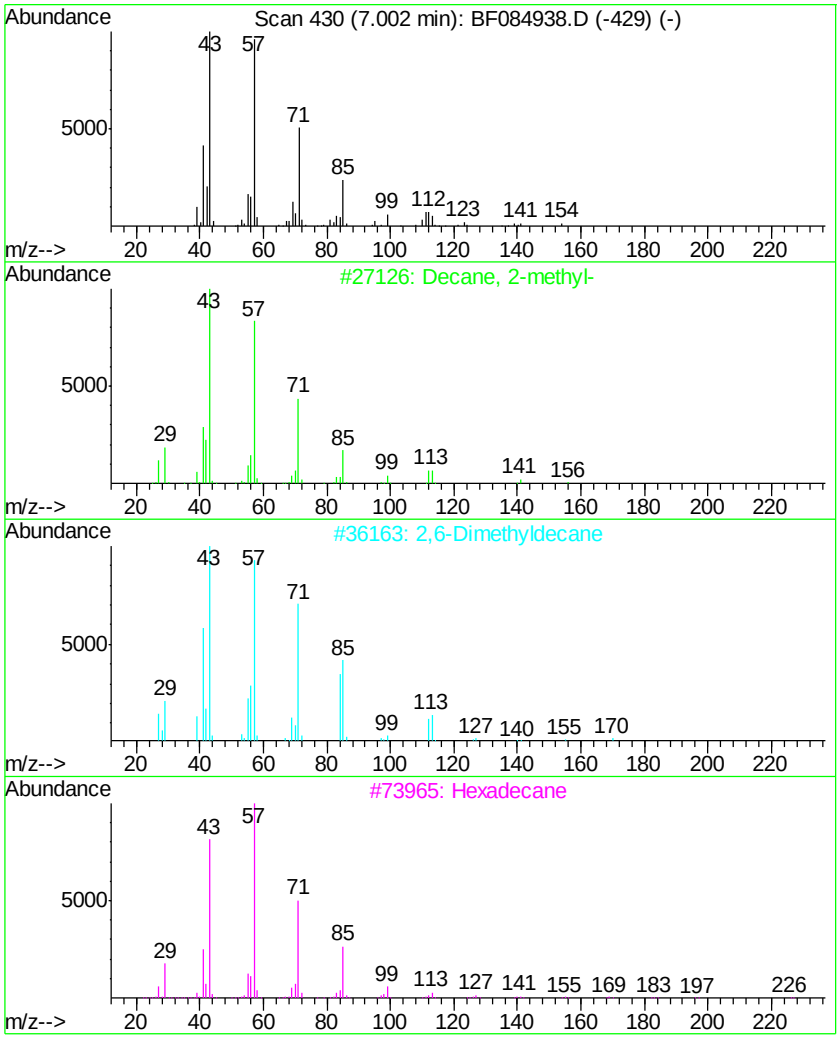
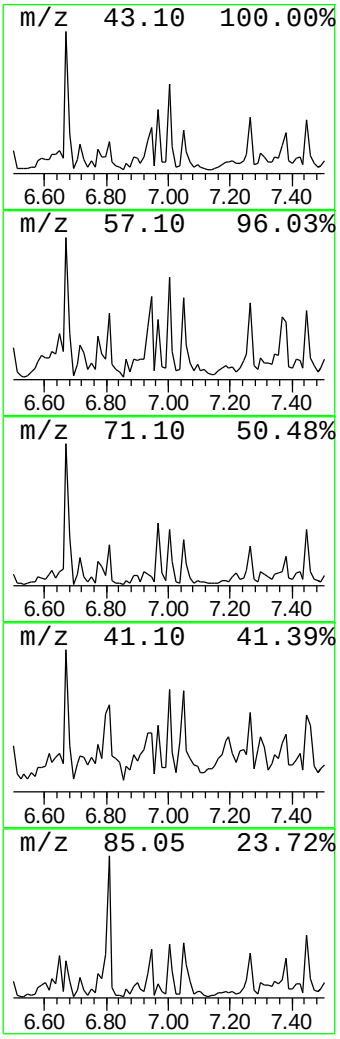
Peak Number 9 Decane, 2-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.00 | 6.18 ng | 414936 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 72 |
| 2 | 2,6-Dimethyldecane | 170 | C12H26 | 013150-81-7 | 64 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 64 |
| 5 | Heptadecane, 2,6-dimethyl- | 268 | C19H40 | 054105-67-8 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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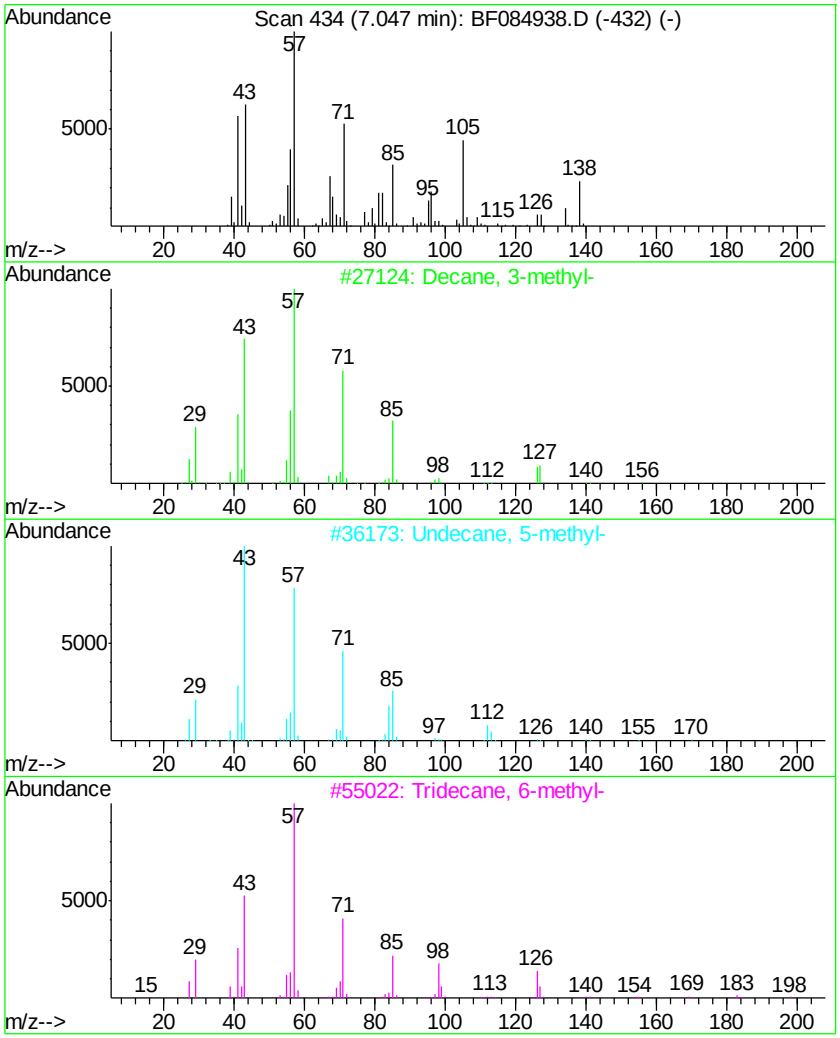
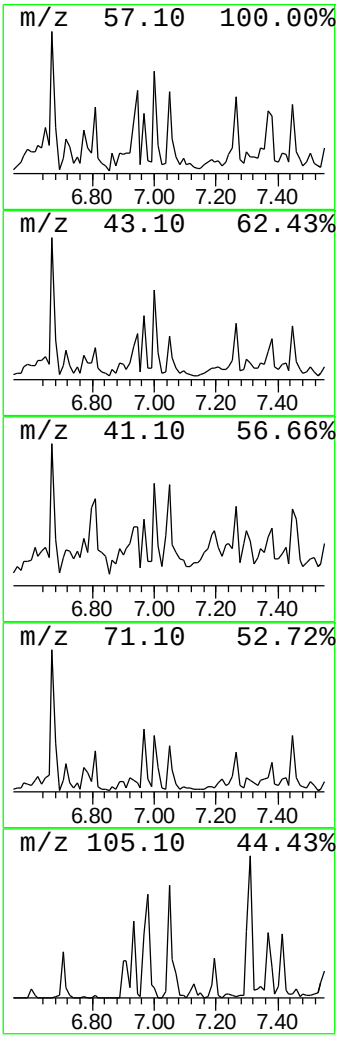
Peak Number 10 Decane, 3-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.05 | 12.58 ng | 844888 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 50 |
| 2 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 35 |
| 3 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 35 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 35 |
| 5 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 27 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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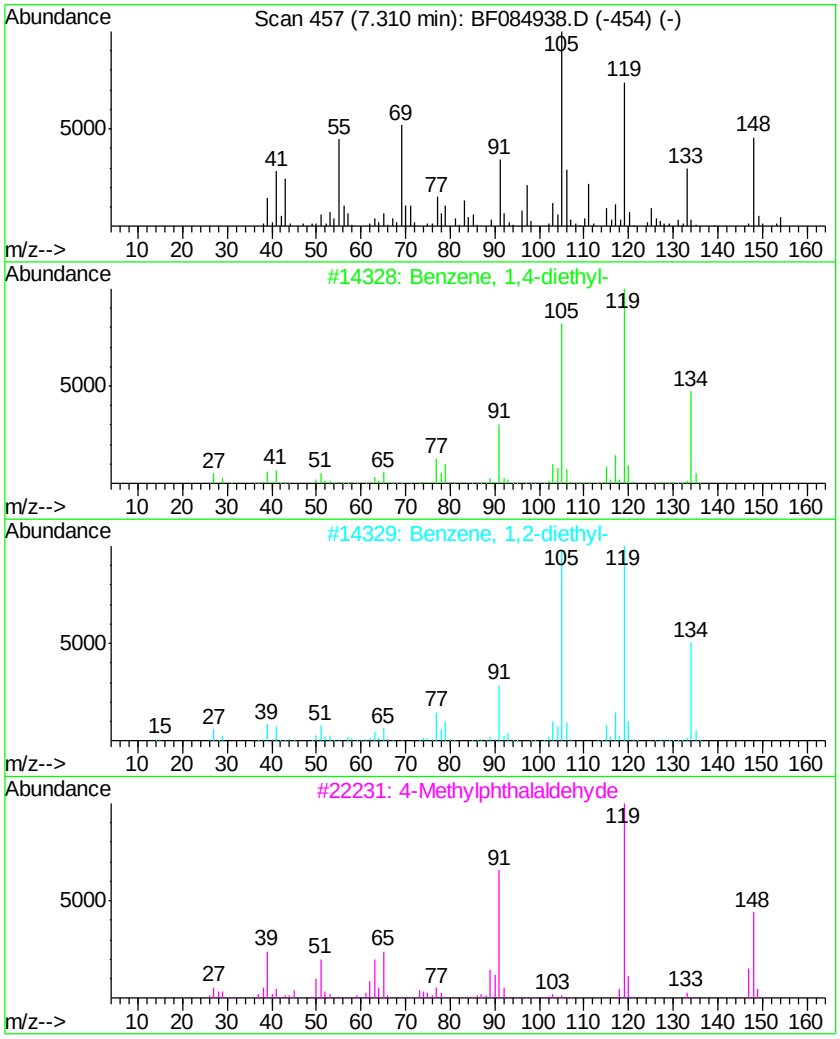
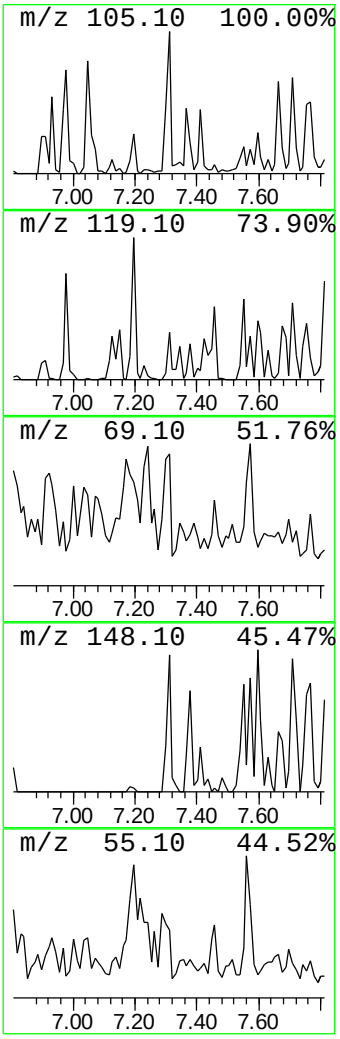
Peak Number 11 unknown7.31 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.31 | 5.73 ng | 580158 | Naphthalene-d8 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 43 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 38 |
| 3 | 4-Methylphthalaldehyde | 148 | C9H8O2 | 015158-36-8 | 35 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 35 |
| 5 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 30 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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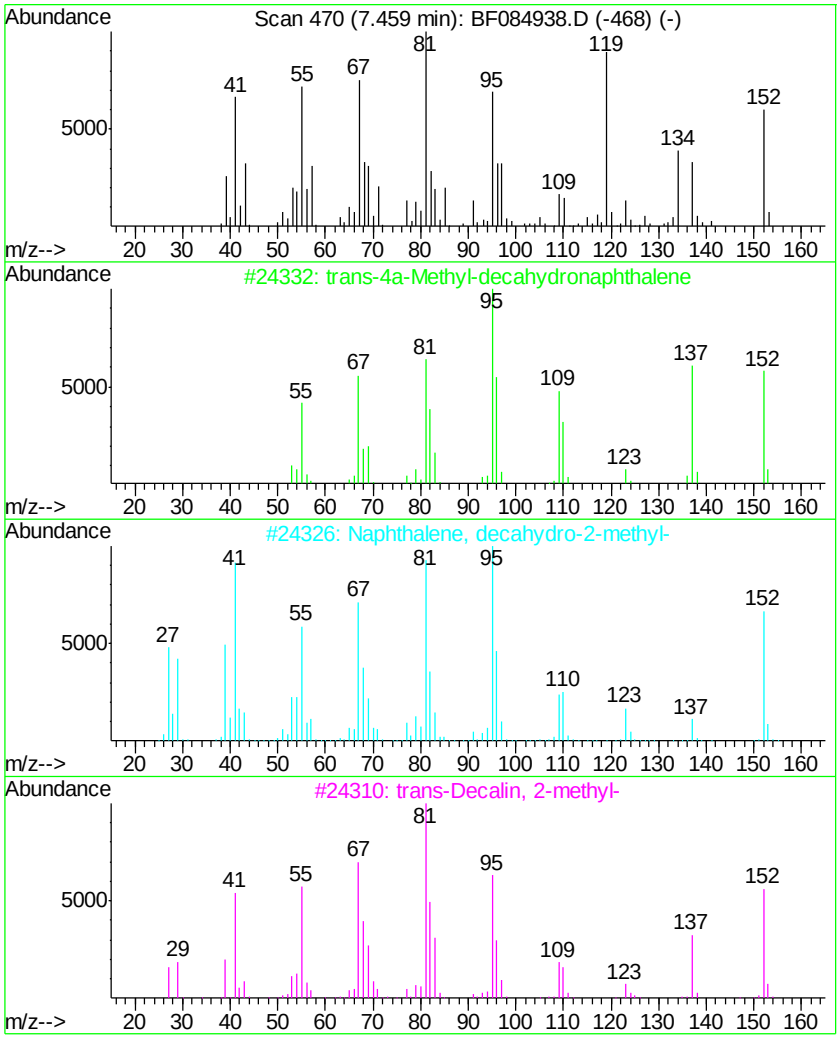
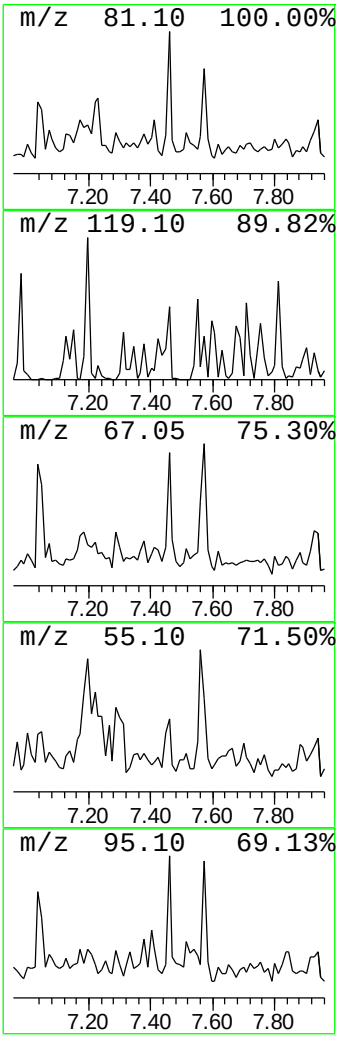
Peak Number 12 trans-4a-Methyl-decahydrona... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.46 | 6.04 ng | 611123 | Naphthalene-d8 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20 | 002547-27-5 | 84 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 74 |
| 3 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 58 |
| 4 | Decalin, syn-1-methyl-, cis- | 152 | C11H20 | 1000158-89-1 | 55 |
| 5 | Cyclodecene, 1-methyl- | 152 | C11H20 | 066633-38-3 | 53 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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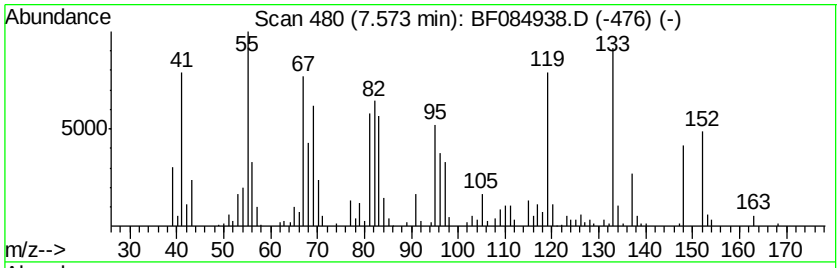
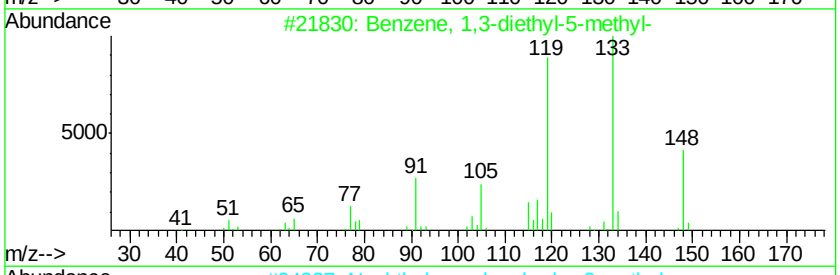
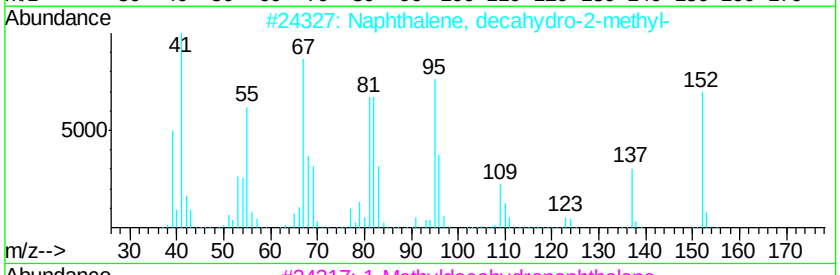
Peak Number 13 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 8

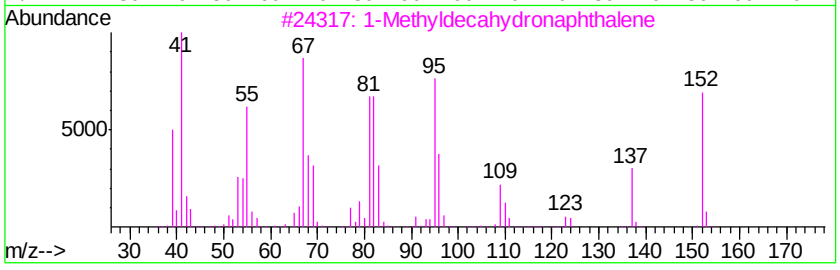
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.57 | 8.28 ng | 838230 | Naphthalene-d8 | 7.94 |

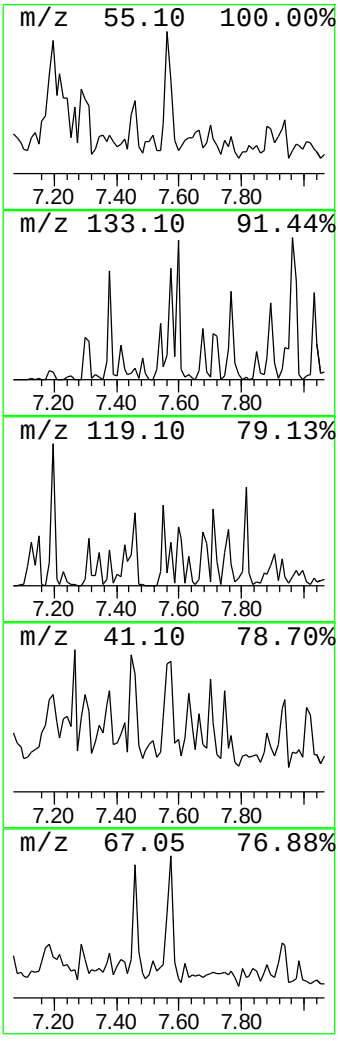
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 93 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 60 |
| 3 | 1-Methyldecahydronaphthalene | 152 | C11H20 | 002958-75-0 | 60 |
| 4 | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16 | 001758-85-6 | 50 |
| 5 | Cyclohexanone, 2-(2-methylpropyl... | 152 | C10H16O | 043108-69-6 | 42 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

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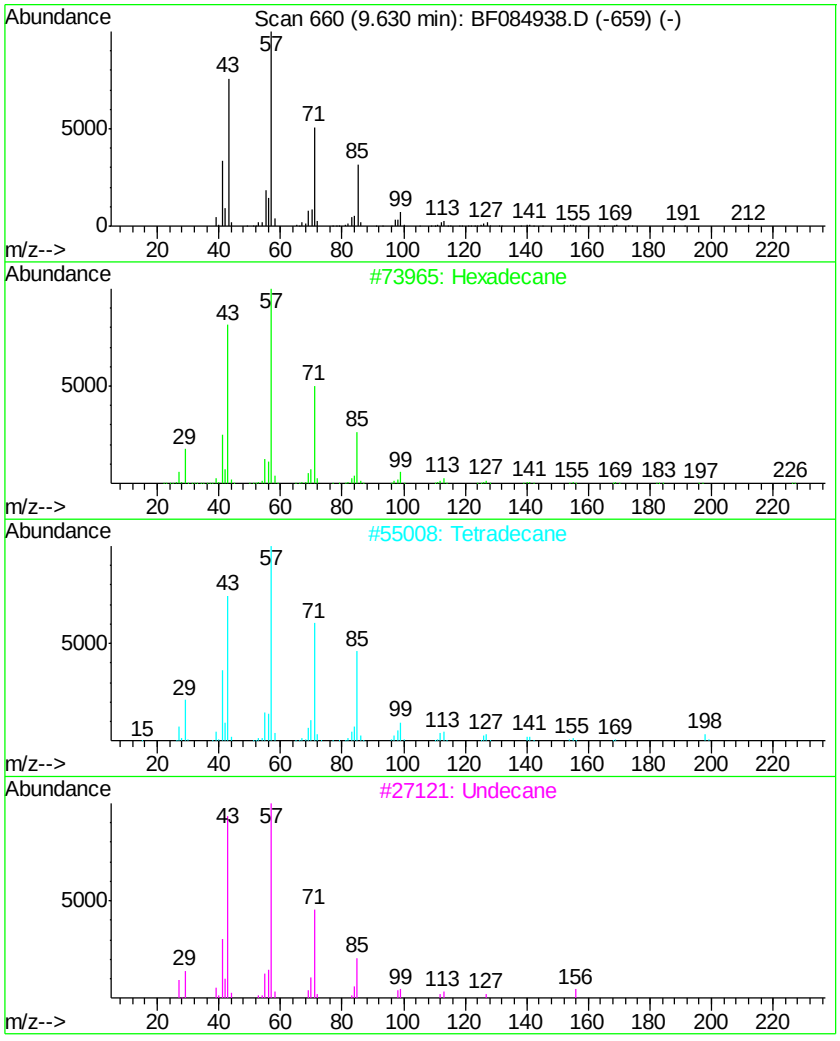
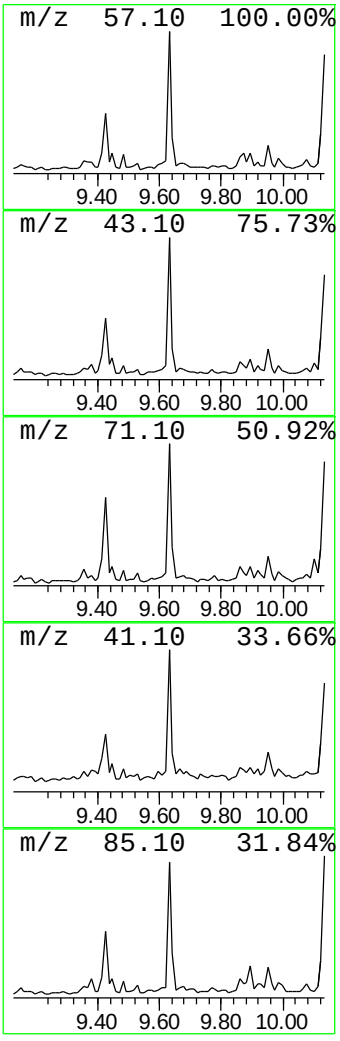
Peak Number 14 Hexadecane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.63 | 5.85 ng | 484958 | Acenaphthene-d10 | 9.69 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Undecane | 156 | C11H24 | 001120-21-4 | 86 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

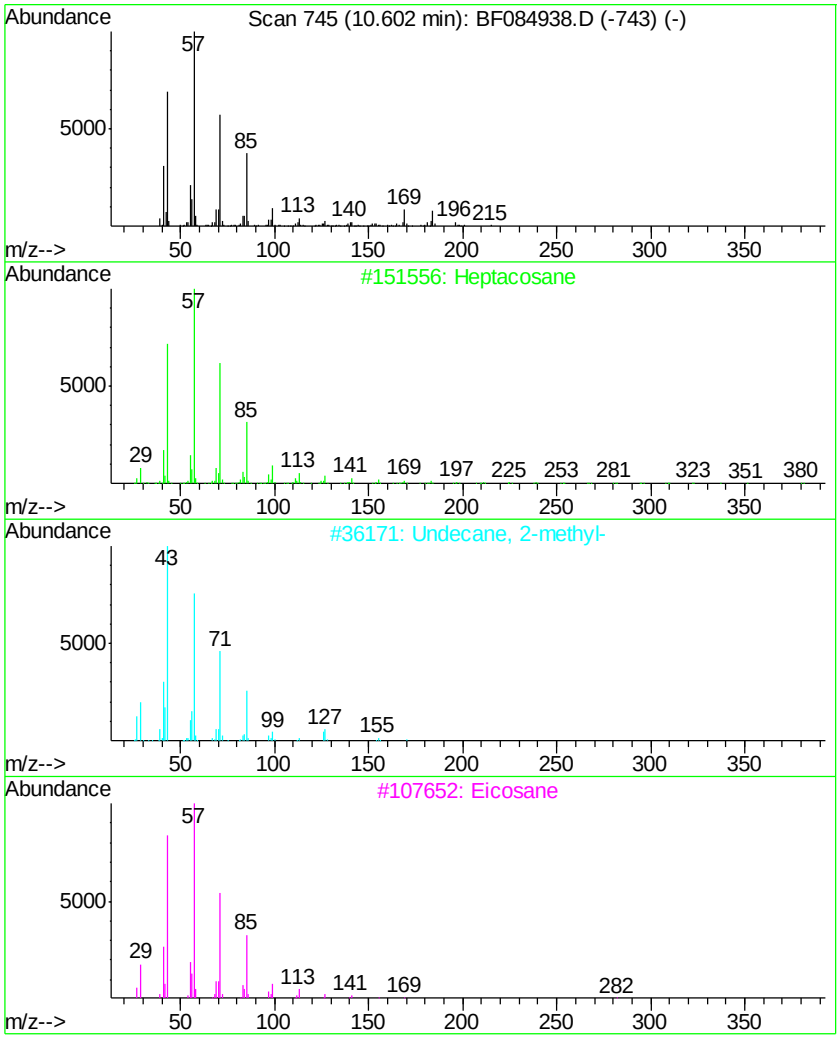
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

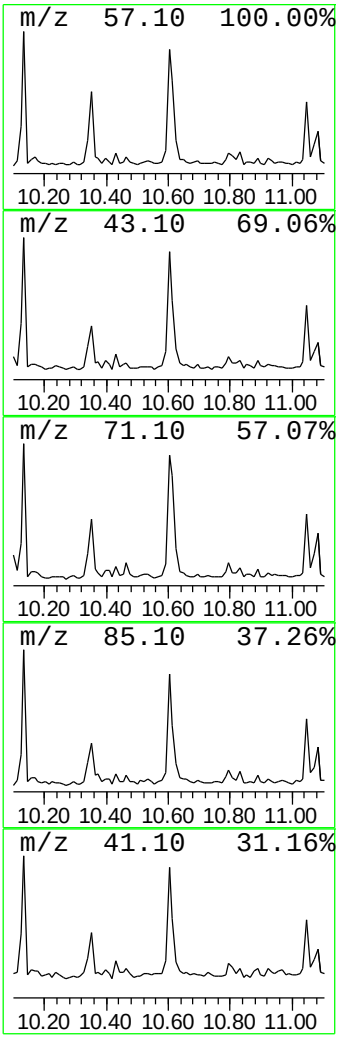
**********

Peak Number 15 Heptacosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.60 | 8.90 ng | 605270 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 87 |
| 2 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 86 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 4 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 81 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

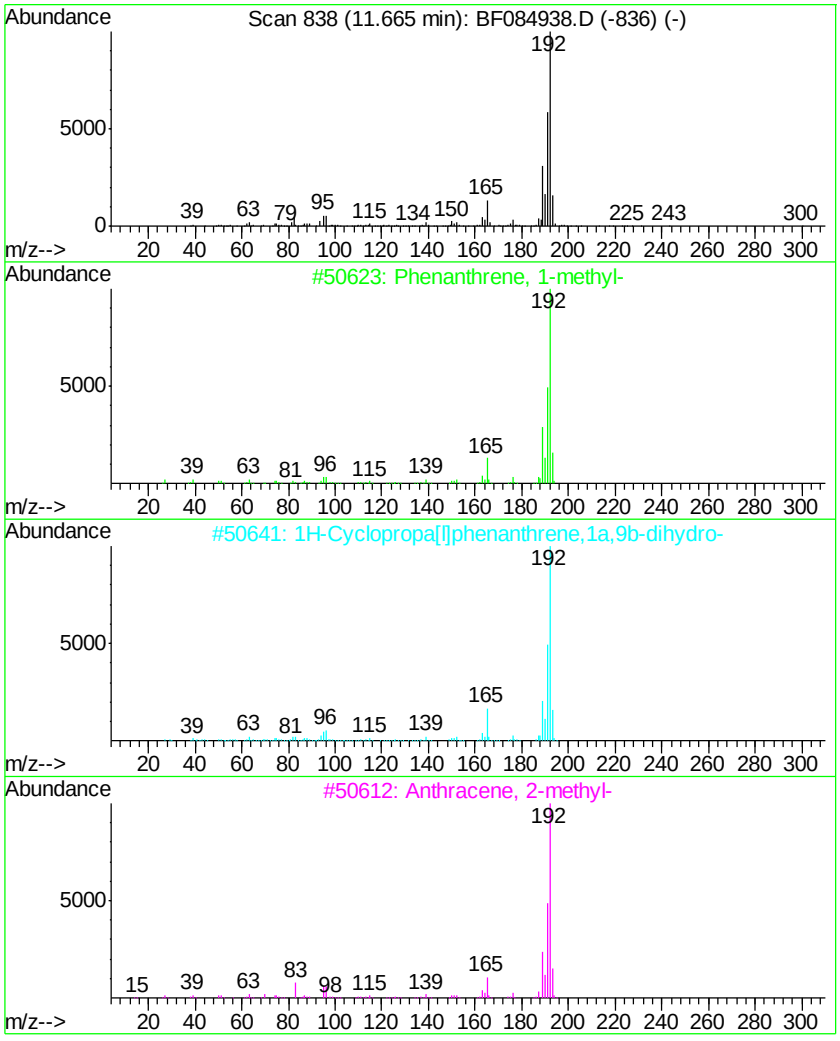
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

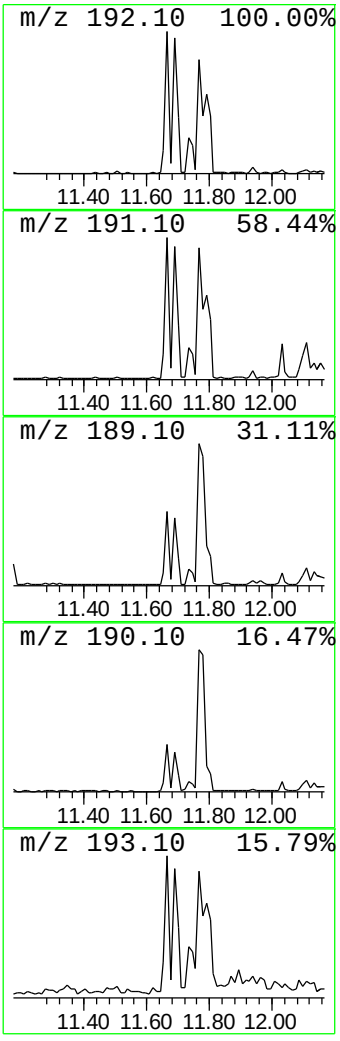
**********

Peak Number 16 Phenanthrene, 1-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.67 | 6.46 ng | 439235 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 5 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 94 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

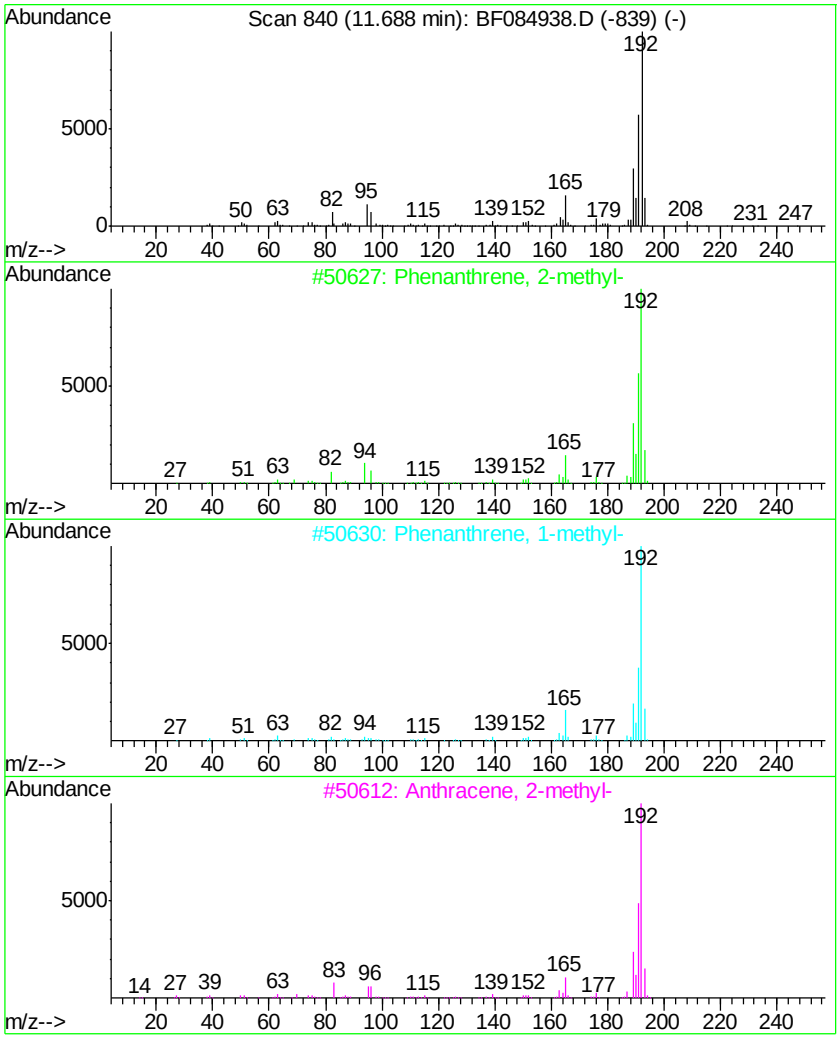
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

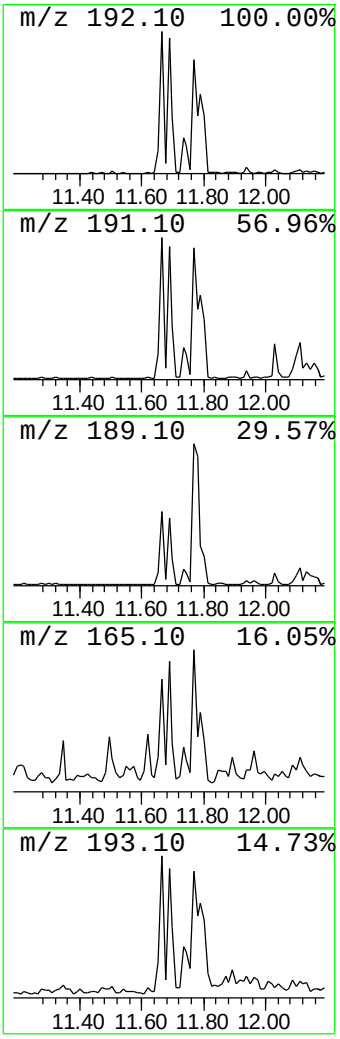
**********

Peak Number 17 Phenanthrene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.69 | 6.48 ng | 440859 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 93 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

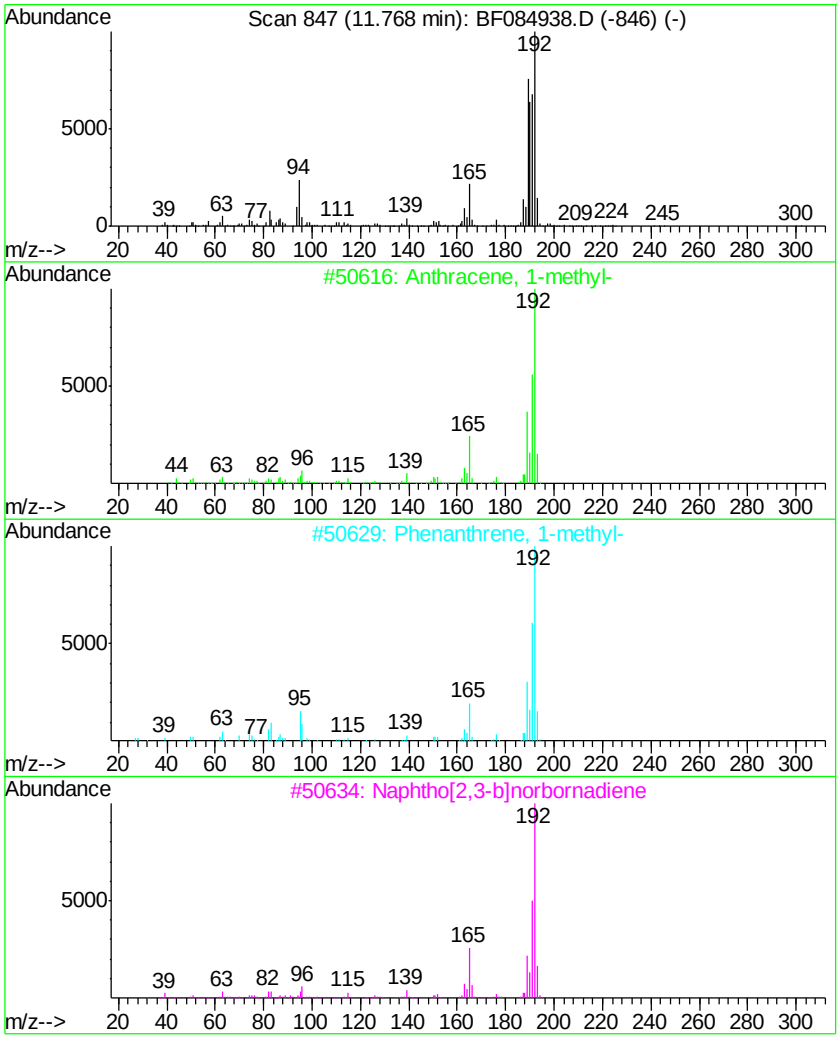
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

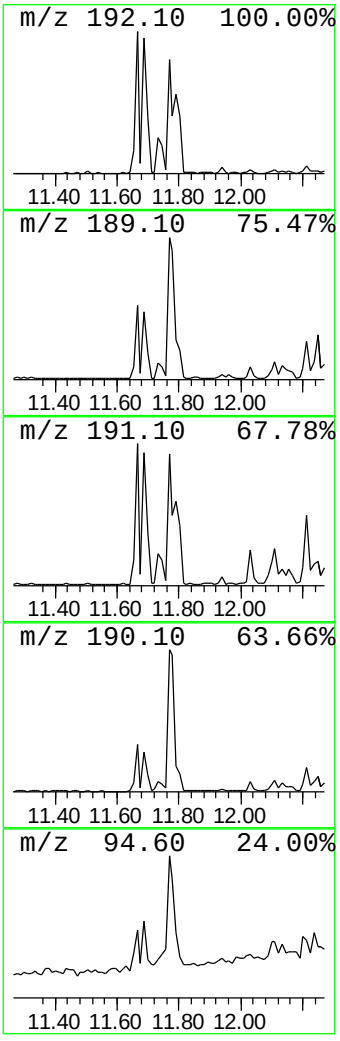
**********

Peak Number 18 Anthracene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 15.56 ng | 1057780 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 87 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 64 |
| 3 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 50 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 50 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 50 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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

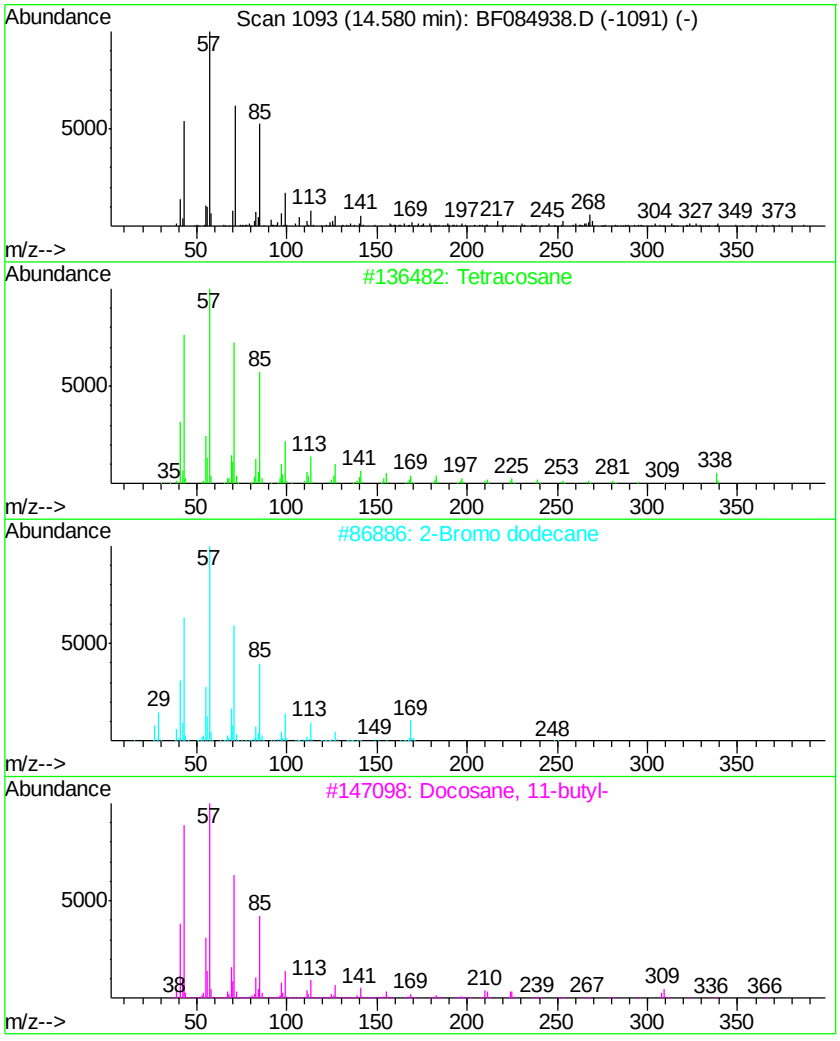
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

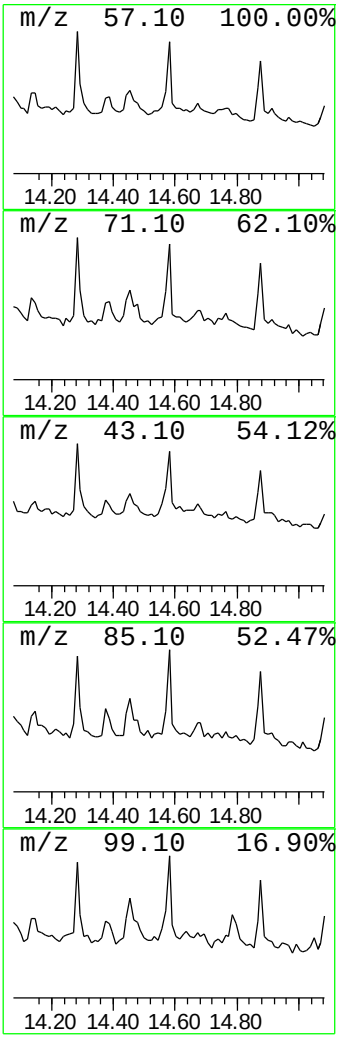
**********

Peak Number 19 Tetracosane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.58 | 5.90 ng | 221163 | Perylene-d12 | 15.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 87 |
| 2 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 83 |
| 3 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 83 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 83 |
| 5 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 80 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
Data File : BF084938.D
Acq On : 8 Feb 2016 19:43
Operator : SJ/IZ
Sample : H1329-18
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S4-B004(0-2)

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... | 4.80 | 26.1 | ng | 1755400 | 1 | 6.65 | 1343140 | 20.0 |
| Nonane, 3-methyl- | 5.88 | 6.8 | ng | 455490 | 1 | 6.65 | 1343140 | 20.0 |
| Octane, 2,7-dimet... | 6.18 | 6.3 | ng | 423787 | 1 | 6.65 | 1343140 | 20.0 |
| unknown6.42 | 6.42 | 54.0 | ng | 3629560 | 1 | 6.65 | 1343140 | 20.0 |
| unknown6.49 | 6.49 | 6.3 | ng | 425752 | 1 | 6.65 | 1343140 | 20.0 |
| 1-Octanol, 2-butyl- | 6.93 | 13.3 | ng | 894113 | 1 | 6.65 | 1343140 | 20.0 |
| Decane, 4-methyl- | 6.97 | 6.5 | ng | 437340 | 1 | 6.65 | 1343140 | 20.0 |
| Decane, 2-methyl- | 7.00 | 6.2 | ng | 414936 | 1 | 6.65 | 1343140 | 20.0 |
| Decane, 3-methyl- | 7.05 | 12.6 | ng | 844888 | 1 | 6.65 | 1343140 | 20.0 |
| unknown7.31 | 7.31 | 5.7 | ng | 580158 | 2 | 7.94 | 2023690 | 20.0 |
| trans-4a-Methyl-d... | 7.46 | 6.0 | ng | 611123 | 2 | 7.94 | 2023690 | 20.0 |
| Benzene, 1,3-diet... | 7.57 | 8.3 | ng | 838230 | 2 | 7.94 | 2023690 | 20.0 |
| Hexadecane | 9.63 | 5.8 | ng | 484958 | 3 | 9.69 | 1657430 | 20.0 |
| Heptacosane | 10.60 | 8.9 | ng | 605270 | 4 | 11.16 | 1360010 | 20.0 |
| Phenanthrene, 1-m... | 11.67 | 6.5 | ng | 439235 | 4 | 11.16 | 1360010 | 20.0 |
| Phenanthrene, 2-m... | 11.69 | 6.5 | ng | 440859 | 4 | 11.16 | 1360010 | 20.0 |
| Anthracene, 1-met... | 11.77 | 15.6 | ng | 1057780 | 4 | 11.16 | 1360010 | 20.0 |
| Tetracosane | 14.58 | 5.9 | ng | 221163 | 6 | 15.16 | 750149 | 20.0 |