LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

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-BF092815.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 | 5.063 | 253 | 256 | 259 | rBV | 618068 | 861389 | 44.57% | 2.932% |
| 2 | 5.474 | 290 | 292 | 295 | rBV | 1168239 | 1624168 | 84.04% | 5.529% |
| 3 | 6.126 | 346 | 349 | 352 | rBV | 14258 | 20775 | 1.07% | 0.071% |
| 4 | 6.412 | 372 | 374 | 378 | rBV2 | 10190 | 20521 | 1.06% | 0.070% |
| 5 | 6.514 | 380 | 383 | 385 | rBV | 1682736 | 1696060 | 87.76% | 5.774% |
| 6 | 6.652 | 393 | 395 | 397 | rBV | 1935915 | 1758213 | 90.98% | 5.985% |
| 7 | 6.834 | 406 | 411 | 413 | rBV3 | 31263 | 51924 | 2.69% | 0.177% |
| 8 | 6.892 | 413 | 416 | 418 | rBV | 273262 | 394348 | 20.41% | 1.342% |
| 9 | 7.040 | 427 | 429 | 434 | rVB | 1550354 | 1400384 | 72.46% | 4.767% |
| 10 | 7.132 | 436 | 437 | 441 | rVB2 | 40120 | 64260 | 3.33% | 0.219% |
| 11 | 7.223 | 441 | 445 | 447 | rBV2 | 28023 | 66519 | 3.44% | 0.226% |
| 12 | 7.280 | 447 | 450 | 451 | rBV | 52420 | 50429 | 2.61% | 0.172% |
| 13 | 7.303 | 451 | 452 | 455 | rVB3 | 14960 | 20516 | 1.06% | 0.070% |
| 14 | 7.417 | 459 | 462 | 463 | rBV2 | 123470 | 152182 | 7.87% | 0.518% |
| 15 | 7.452 | 463 | 465 | 469 | rVB | 999704 | 980411 | 50.73% | 3.337% |
| 16 | 7.532 | 469 | 472 | 473 | rVB2 | 64895 | 79661 | 4.12% | 0.271% |
| 17 | 7.577 | 473 | 476 | 478 | rBV2 | 31806 | 42729 | 2.21% | 0.145% |
| 18 | 7.657 | 480 | 483 | 485 | rBV2 | 136606 | 155513 | 8.05% | 0.529% |
| 19 | 7.692 | 485 | 486 | 487 | rVB | 76923 | 52769 | 2.73% | 0.180% |
| 20 | 7.772 | 491 | 493 | 495 | rBV3 | 44595 | 67533 | 3.49% | 0.230% |
| 21 | 7.806 | 495 | 496 | 498 | rBV2 | 90059 | 123425 | 6.39% | 0.420% |
| 22 | 7.852 | 498 | 500 | 502 | rVB2 | 24382 | 32132 | 1.66% | 0.109% |
| 23 | 7.909 | 503 | 505 | 507 | rBV | 270190 | 238458 | 12.34% | 0.812% |
| 24 | 7.989 | 509 | 512 | 515 | rVB2 | 55473 | 85365 | 4.42% | 0.291% |
| 25 | 8.046 | 515 | 517 | 518 | rBV | 60362 | 83333 | 4.31% | 0.284% |
| 26 | 8.069 | 518 | 519 | 521 | rBV2 | 26717 | 32239 | 1.67% | 0.110% |
| 27 | 8.115 | 521 | 523 | 524 | rBV2 | 24586 | 35614 | 1.84% | 0.121% |
| 28 | 8.172 | 524 | 528 | 531 | rBV2 | 683969 | 913151 | 47.25% | 3.108% |
| 29 | 8.217 | 531 | 532 | 534 | rVB2 | 181772 | 210559 | 10.90% | 0.717% |
| 30 | 8.263 | 534 | 536 | 537 | rBV | 57358 | 77947 | 4.03% | 0.265% |
| 31 | 8.286 | 537 | 538 | 540 | rVB2 | 21501 | 25689 | 1.33% | 0.087% |
| 32 | 8.320 | 540 | 541 | 544 | rBV2 | 37412 | 85206 | 4.41% | 0.290% |
| 33 | 8.366 | 544 | 545 | 547 | rVB2 | 174313 | 164278 | 8.50% | 0.559% |
| 34 | 8.412 | 547 | 549 | 551 | rBV | 60933 | 111371 | 5.76% | 0.379% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

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-BF092815.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.446 | 551 | 552 | 555 | rVV2 | 90201 | 148911 | 7.71% | 0.507% |
| 36 | 8.515 | 556 | 558 | 560 | rVB3 | 49538 | 46985 | 2.43% | 0.160% |
| 37 | 8.549 | 560 | 561 | 563 | rVB2 | 117287 | 154841 | 8.01% | 0.527% |
| 38 | 8.595 | 563 | 565 | 567 | rBV2 | 191683 | 318562 | 16.48% | 1.084% |
| 39 | 8.640 | 567 | 569 | 570 | rVB2 | 129963 | 150519 | 7.79% | 0.512% |
| 40 | 8.675 | 570 | 572 | 573 | rBV | 132179 | 123357 | 6.38% | 0.420% |
| 41 | 8.732 | 573 | 577 | 578 | rVB3 | 65095 | 118501 | 6.13% | 0.403% |
| 42 | 8.755 | 578 | 579 | 581 | rBV | 94239 | 145167 | 7.51% | 0.494% |
| 43 | 8.800 | 581 | 583 | 584 | rVV2 | 70315 | 112861 | 5.84% | 0.384% |
| 44 | 8.835 | 584 | 586 | 589 | rVV2 | 195701 | 325206 | 16.83% | 1.107% |
| 45 | 8.880 | 589 | 590 | 592 | rVV | 117951 | 152298 | 7.88% | 0.518% |
| 46 | 8.915 | 592 | 593 | 595 | rVV2 | 25669 | 31018 | 1.61% | 0.106% |
| 47 | 8.983 | 595 | 599 | 601 | rVV2 | 408476 | 561556 | 29.06% | 1.912% |
| 48 | 9.075 | 604 | 607 | 609 | rVV4 | 68498 | 179962 | 9.31% | 0.613% |
| 49 | 9.120 | 609 | 611 | 614 | rVV4 | 76772 | 164679 | 8.52% | 0.561% |
| 50 | 9.189 | 616 | 617 | 620 | rVV3 | 242878 | 336214 | 17.40% | 1.144% |
| 51 | 9.258 | 620 | 623 | 625 | rVV | 1604622 | 1932576 | 100.00% | 6.579% |
| 52 | 9.292 | 625 | 626 | 627 | rVV | 32623 | 24912 | 1.29% | 0.085% |
| 53 | 9.326 | 627 | 629 | 632 | rVV2 | 126086 | 217336 | 11.25% | 0.740% |
| 54 | 9.395 | 632 | 635 | 637 | rVV4 | 116926 | 253669 | 13.13% | 0.864% |
| 55 | 9.452 | 637 | 640 | 643 | rVV2 | 80237 | 161143 | 8.34% | 0.549% |
| 56 | 9.520 | 643 | 646 | 648 | rVV | 167922 | 215157 | 11.13% | 0.732% |
| 57 | 9.589 | 650 | 652 | 655 | rVV2 | 286282 | 470457 | 24.34% | 1.601% |
| 58 | 9.646 | 655 | 657 | 661 | rVV | 567206 | 810436 | 41.94% | 2.759% |
| 59 | 9.703 | 661 | 662 | 667 | rVB4 | 139708 | 243472 | 12.60% | 0.829% |
| 60 | 9.795 | 667 | 670 | 672 | rVB2 | 119096 | 119825 | 6.20% | 0.408% |
| 61 | 9.840 | 672 | 674 | 675 | rBV2 | 85509 | 102013 | 5.28% | 0.347% |
| 62 | 9.932 | 680 | 682 | 684 | rVB | 704826 | 614239 | 31.78% | 2.091% |
| 63 | 9.966 | 684 | 685 | 687 | rVB2 | 97415 | 76562 | 3.96% | 0.261% |
| 64 | 10.035 | 690 | 691 | 693 | rBV | 83017 | 101552 | 5.25% | 0.346% |
| 65 | 10.092 | 693 | 696 | 697 | rBV2 | 60577 | 112583 | 5.83% | 0.383% |
| 66 | 10.126 | 697 | 699 | 702 | rVB2 | 107121 | 164512 | 8.51% | 0.560% |
| 67 | 10.183 | 702 | 704 | 708 | rVB3 | 122416 | 244362 | 12.64% | 0.832% |
| 68 | 10.252 | 708 | 710 | 713 | rBV | 144033 | 212221 | 10.98% | 0.722% |
| 69 | 10.298 | 713 | 714 | 716 | rVB | 38122 | 48193 | 2.49% | 0.164% |
| 70 | 10.366 | 716 | 720 | 721 | rBV2 | 150493 | 271976 | 14.07% | 0.926% |
| 71 | 10.423 | 723 | 725 | 727 | rVB3 | 51361 | 78547 | 4.06% | 0.267% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

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-BF092815.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.480 | 727 | 730 | 735 | rBV4 | 116410 | 256410 | 13.27% | 0.873% |
| 73 | 10.549 | 735 | 736 | 737 | rBV | 96307 | 78360 | 4.05% | 0.267% |
| 74 | 10.583 | 737 | 739 | 742 | rVB | 312880 | 358326 | 18.54% | 1.220% |
| 75 | 10.640 | 742 | 744 | 746 | rVB2 | 37485 | 54252 | 2.81% | 0.185% |
| 76 | 10.720 | 749 | 751 | 754 | rVV2 | 818834 | 1088157 | 56.31% | 3.704% |
| 77 | 10.846 | 760 | 762 | 766 | rVB | 541550 | 731949 | 37.87% | 2.492% |
| 78 | 11.029 | 776 | 778 | 779 | rBV | 76270 | 78880 | 4.08% | 0.269% |
| 79 | 11.063 | 779 | 781 | 783 | rVB2 | 120182 | 115842 | 5.99% | 0.394% |
| 80 | 11.178 | 788 | 791 | 794 | rBV3 | 58765 | 107605 | 5.57% | 0.366% |
| 81 | 11.292 | 798 | 801 | 802 | rBV | 121226 | 183994 | 9.52% | 0.626% |
| 82 | 11.315 | 802 | 803 | 806 | rVB | 318298 | 309831 | 16.03% | 1.055% |
| 83 | 11.429 | 810 | 813 | 814 | rBV | 510342 | 667671 | 34.55% | 2.273% |
| 84 | 11.669 | 832 | 834 | 836 | rBV2 | 87118 | 112799 | 5.84% | 0.384% |
| 85 | 11.715 | 836 | 838 | 840 | rBV | 138178 | 147678 | 7.64% | 0.503% |
| 86 | 12.904 | 938 | 942 | 950 | rVB3 | 84203 | 227910 | 11.79% | 0.776% |
| 87 | 13.029 | 950 | 953 | 955 | rBV | 1306163 | 1829094 | 94.65% | 6.226% |
| 88 | 13.246 | 970 | 972 | 973 | rBV | 31374 | 31027 | 1.61% | 0.106% |
| 89 | 13.544 | 997 | 998 | 1000 | rBV2 | 25186 | 26378 | 1.36% | 0.090% |
| 90 | 13.589 | 1000 | 1002 | 1004 | rBV2 | 34183 | 49251 | 2.55% | 0.168% |
| 91 | 13.921 | 1028 | 1031 | 1037 | rVB | 147295 | 248918 | 12.88% | 0.847% |
| 92 | 14.081 | 1042 | 1045 | 1047 | rBV | 416289 | 572390 | 29.62% | 1.948% |
| 93 | 14.401 | 1071 | 1073 | 1076 | rBV | 31079 | 50386 | 2.61% | 0.172% |
| 94 | 15.532 | 1170 | 1172 | 1179 | rVB | 335942 | 551182 | 28.52% | 1.876% |
| 95 | 16.653 | 1268 | 1270 | 1277 | rVB4 | 39261 | 114033 | 5.90% | 0.388% |
| 96 | 17.110 | 1307 | 1310 | 1312 | rBV | 24096 | 58803 | 3.04% | 0.200% |

Sum of corrected areas: 29376577

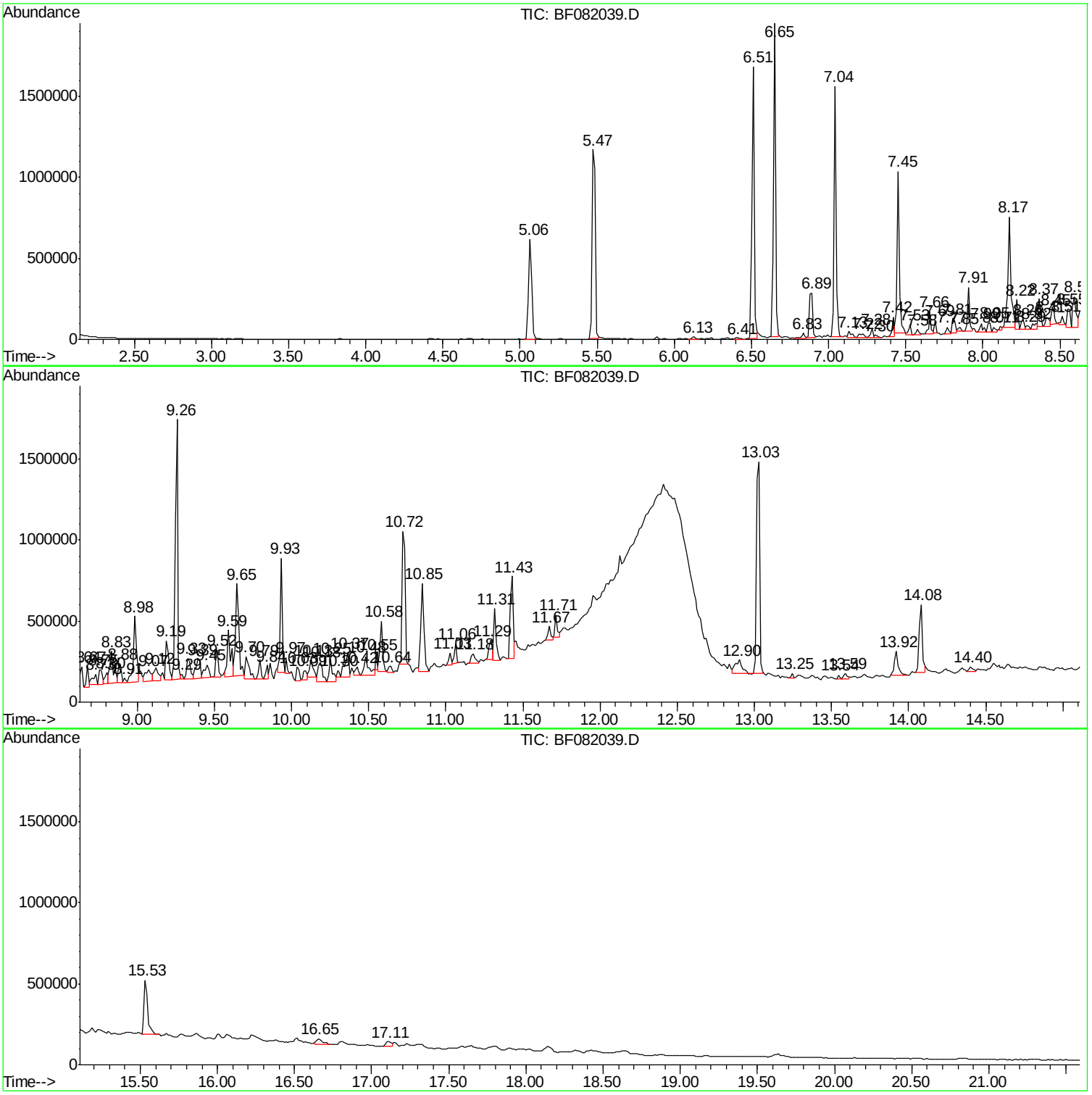
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.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\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

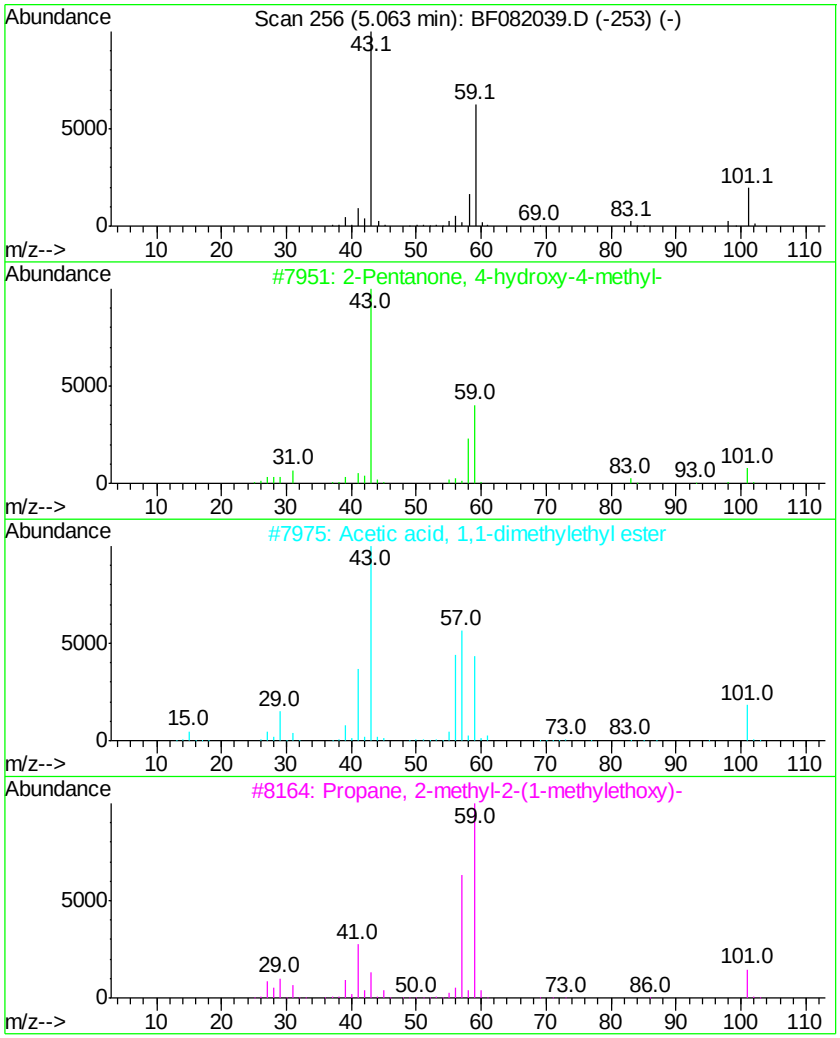
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

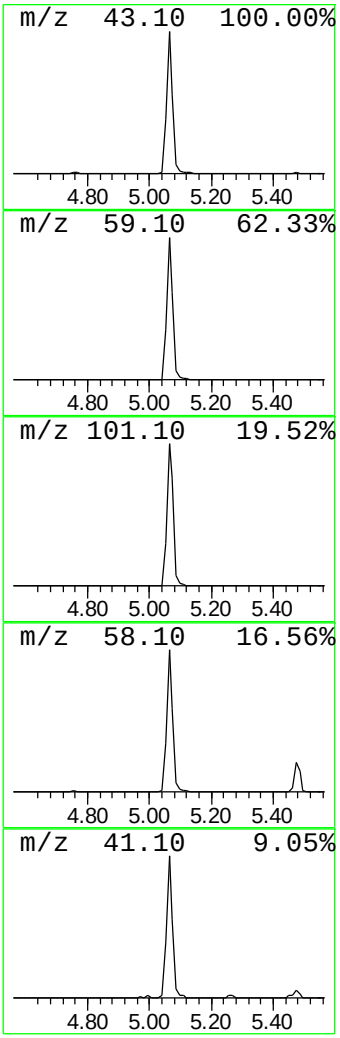
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.06 | 43.69 ng | 861389 | 1,4-Dichlorobenzene-d4 | 6.89 |

| 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 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 36 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 28 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

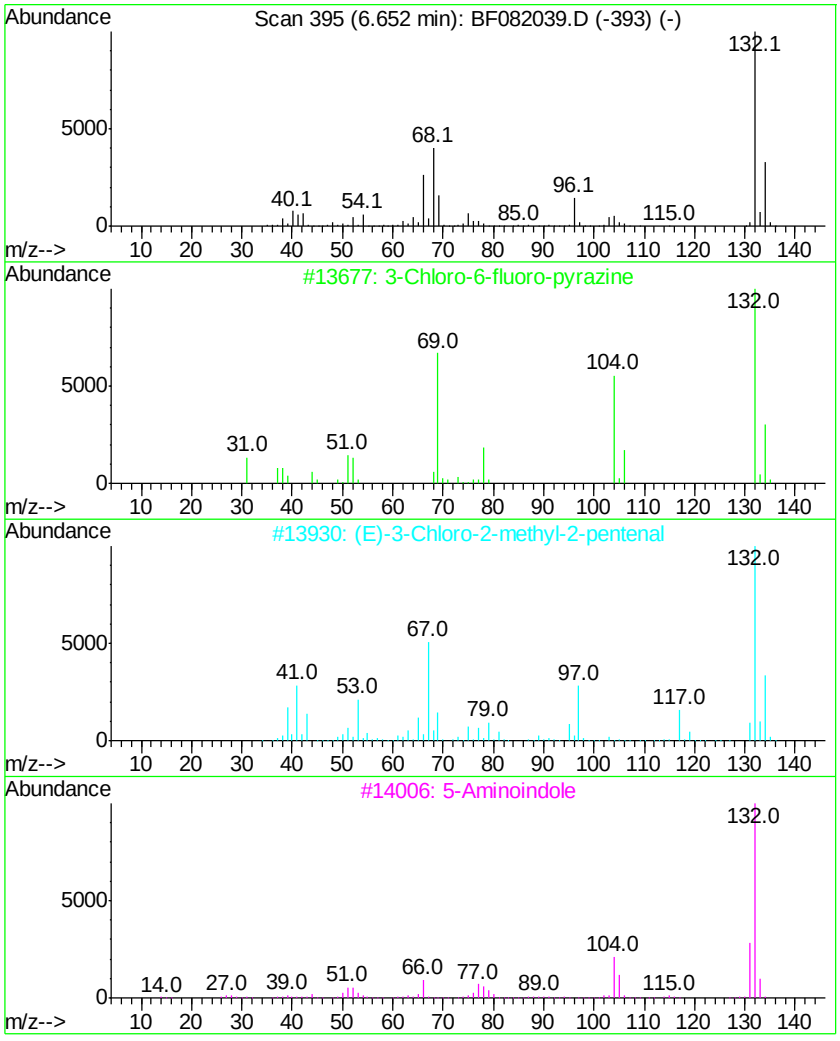
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

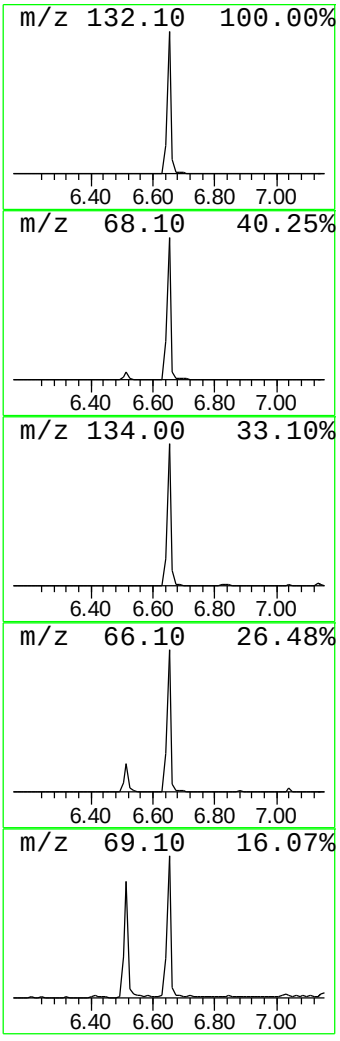
**********

Peak Number 2 unknown6.65 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.65 | 89.17 ng | 1758210 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

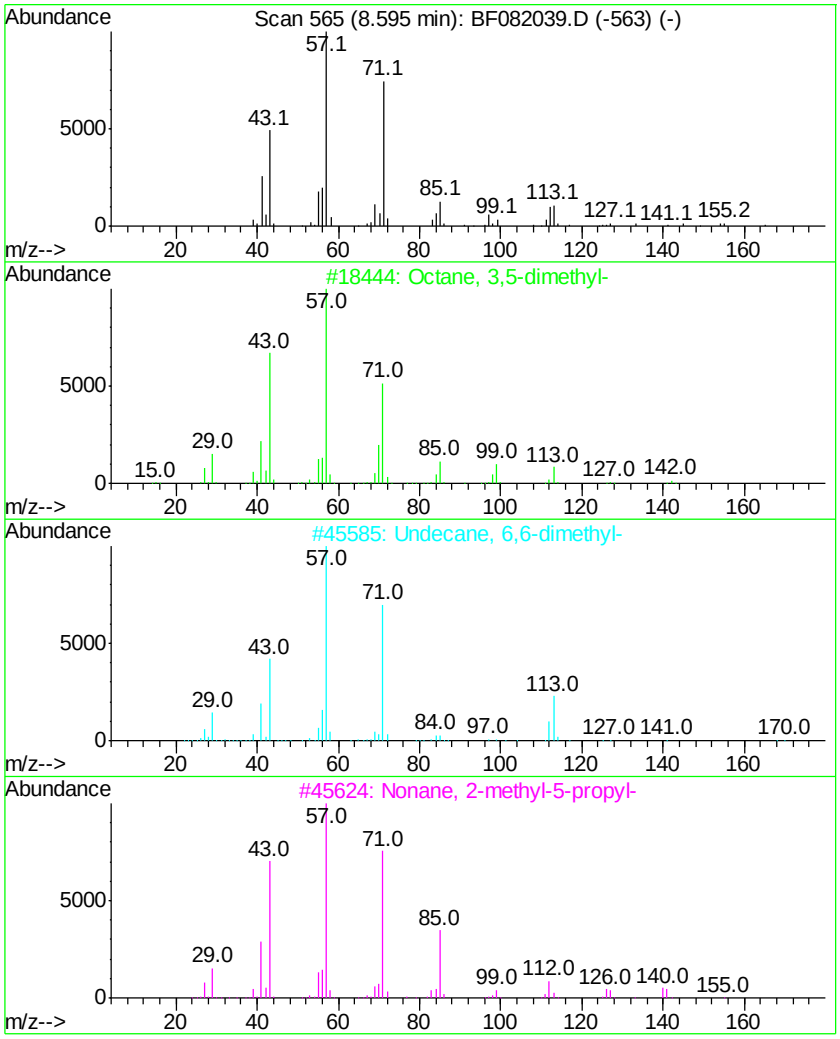
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

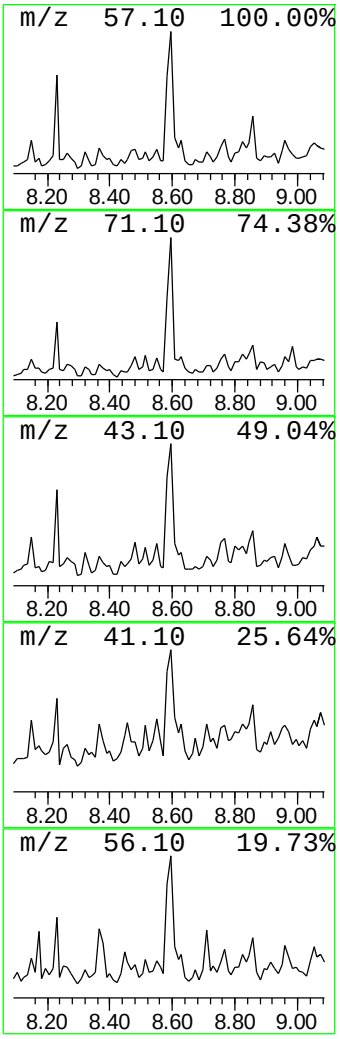
**********

Peak Number 4 Octane, 3,5-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.59 | 6.98 ng | 318562 | Naphthalene-d8 | 8.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 72 |
| 2 | Undecane, 6,6-dimethyl- | 184 | C13H28 | 017312-76-4 | 64 |
| 3 | Nonane, 2-methyl-5-propyl- | 184 | C13H28 | 031081-17-1 | 64 |
| 4 | Decane, 2,6,7-trimethyl- | 184 | C13H28 | 062108-25-2 | 53 |
| 5 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

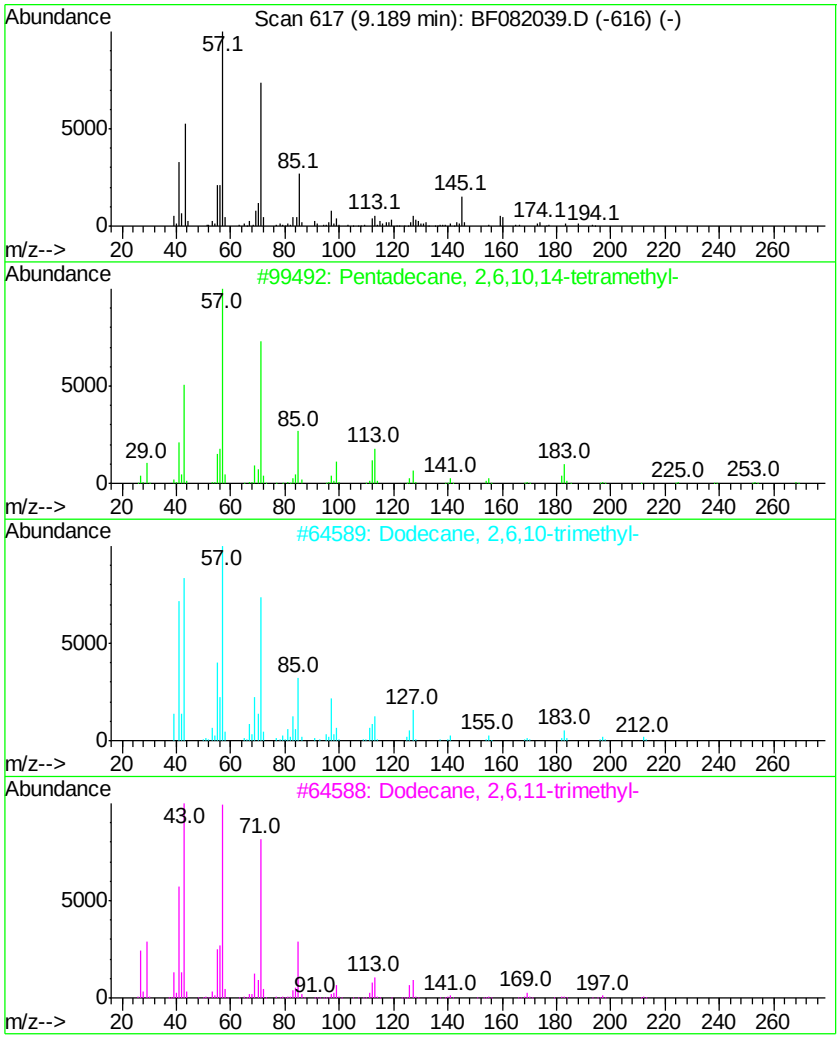
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

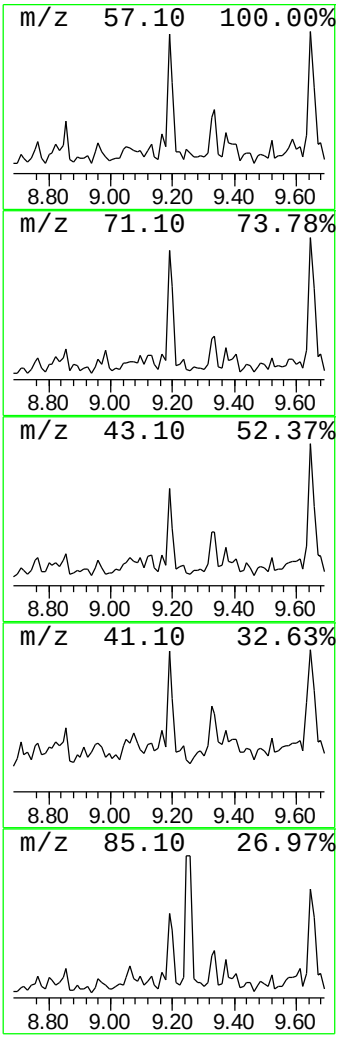
**********

Peak Number 6 Pentadecane, 2,6,10,14-tetr... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.19 | 10.95 ng | 336214 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 72 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 72 |
| 3 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 59 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 58 |
| 5 | Butane, 2,2-dimethyl- | 86 | C6H14 | 000075-83-2 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

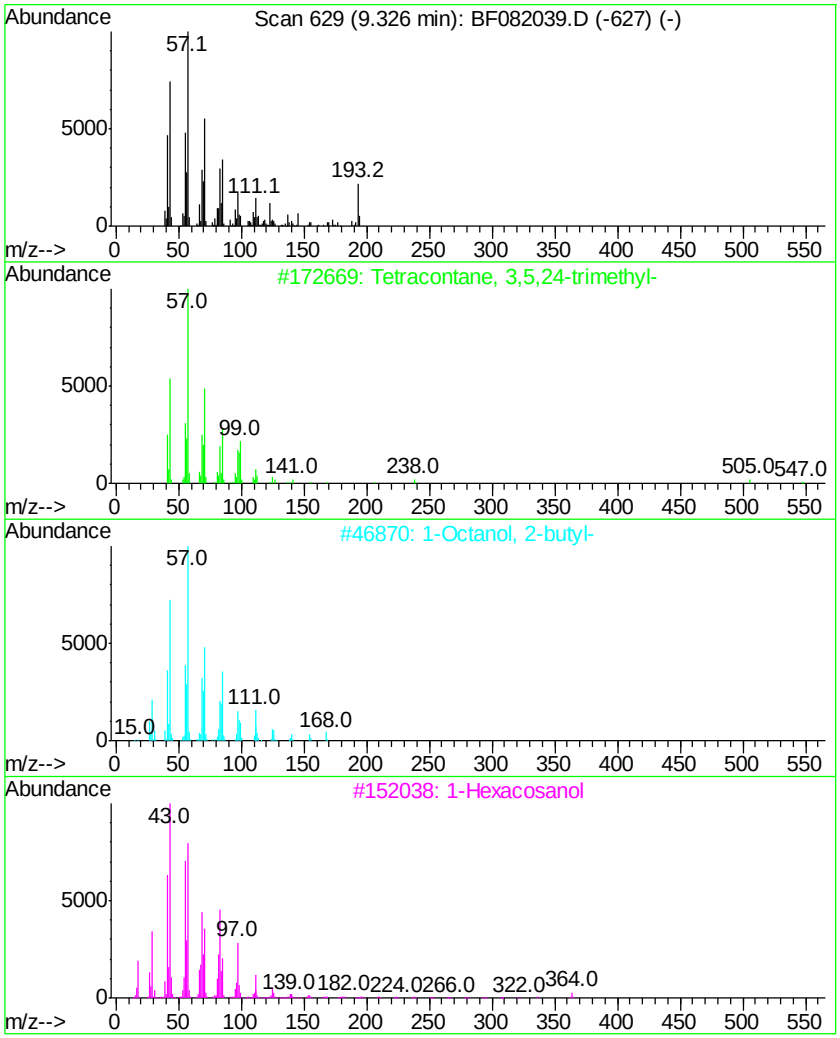
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

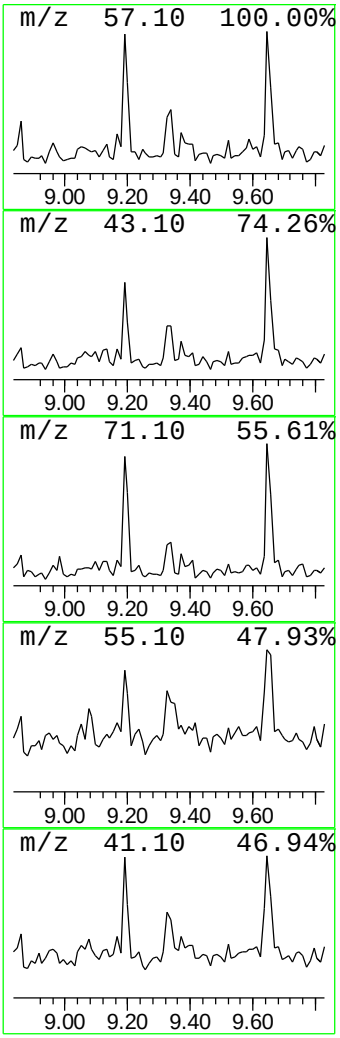
**********

Peak Number 7 Tetracontane, 3,5,24-trimet... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.33 | 7.08 ng | 217336 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracontane, 3,5,24-trimethyl- | 605 | C43H88 | 055162-61-3 | 53 |
| 2 | 1-Octanol, 2-butyl- | 186 | C12H26O | 003913-02-8 | 47 |
| 3 | 1-Hexacosanol | 382 | C26H54O | 000506-52-5 | 43 |
| 4 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 43 |
| 5 | 3-Eicosene, (E)- | 280 | C20H40 | 074685-33-9 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

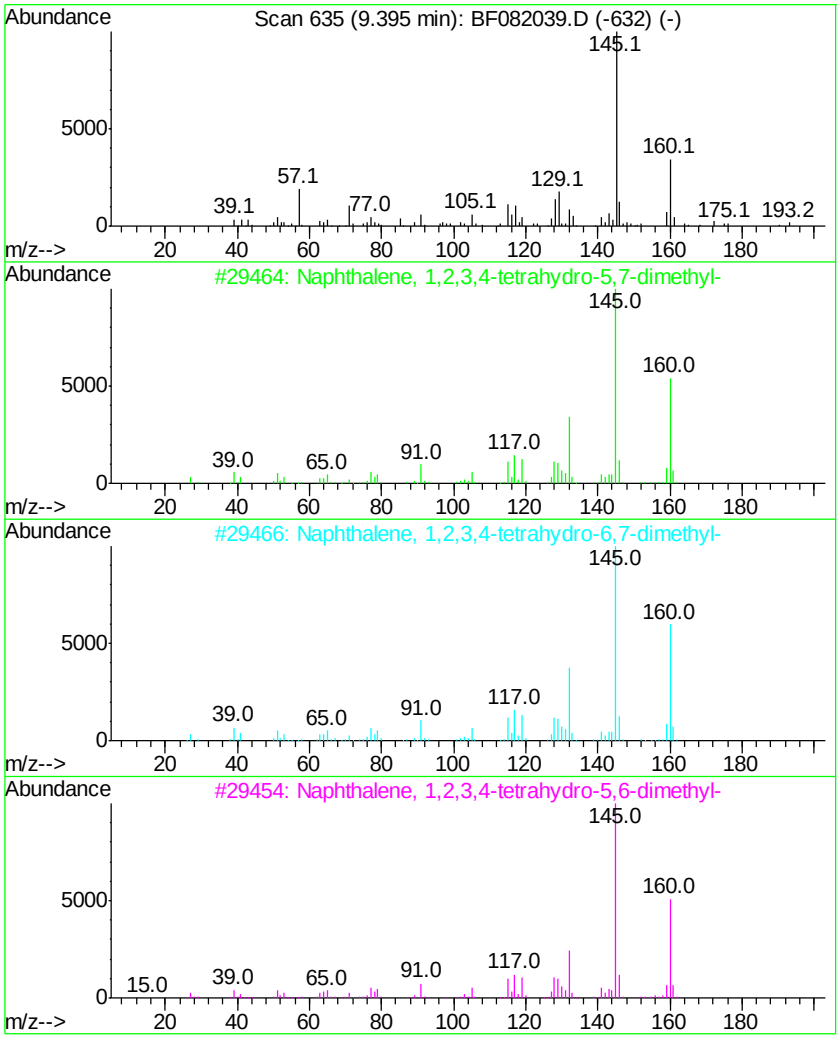
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

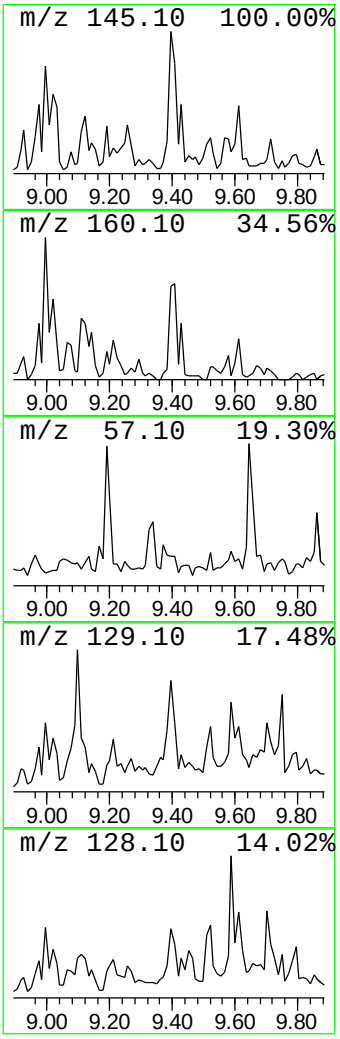
**********

Peak Number 8 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.39 | 8.26 ng | 253669 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021693-54-9 | 94 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 001076-61-5 | 91 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 020027-77-4 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16 | 002613-76-5 | 90 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-91-0 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

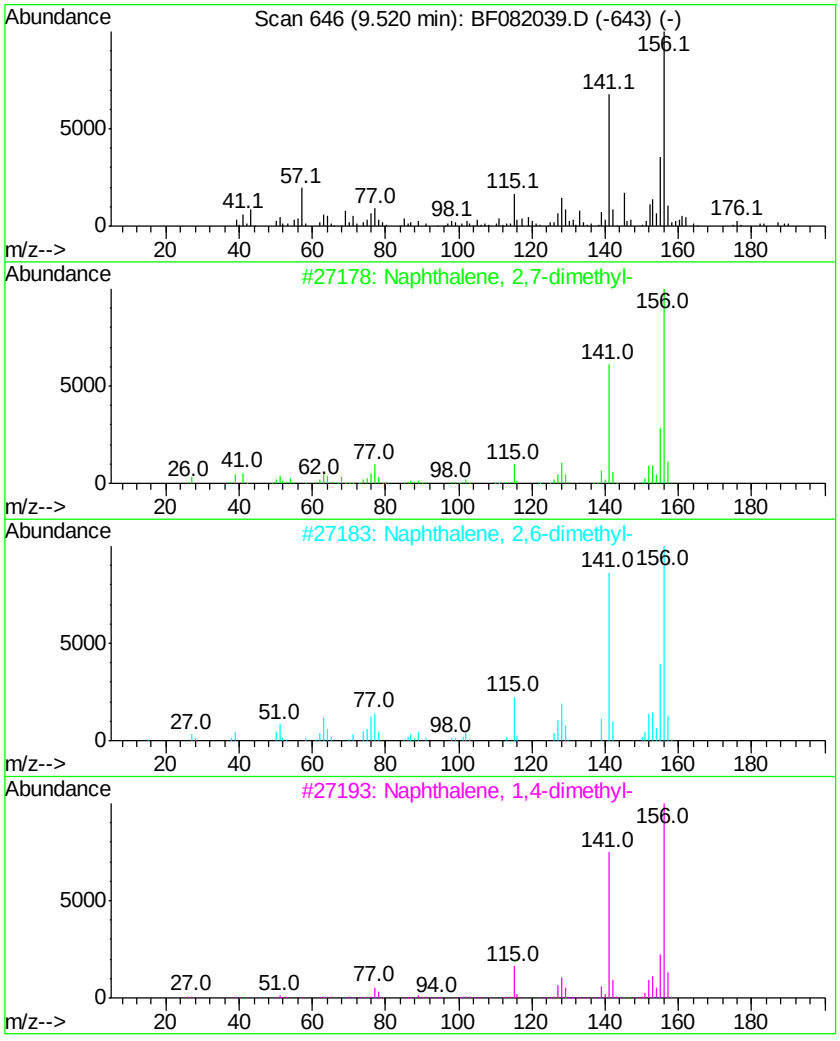
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

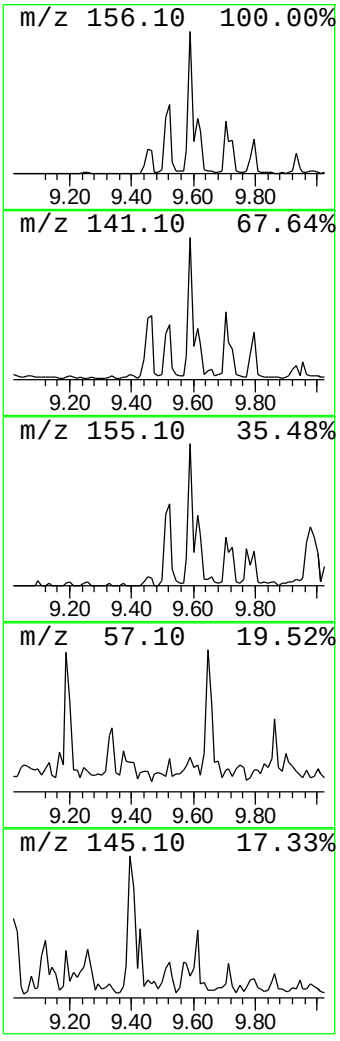
**********

Peak Number 9 Naphthalene, 2,7-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.52 | 7.01 ng | 215157 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |
| 4 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 95 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

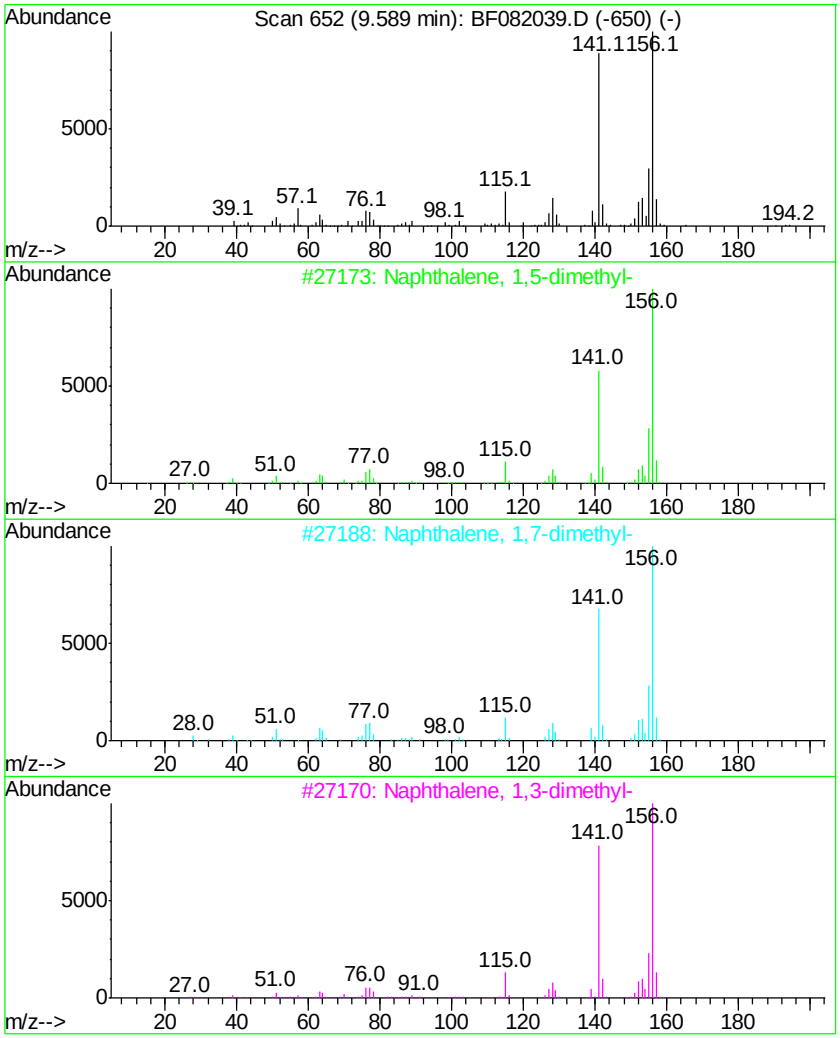
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

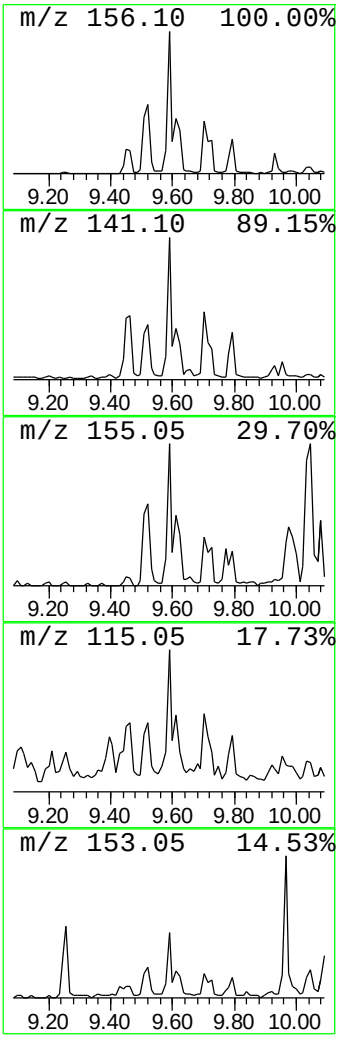
**********

Peak Number 10 Naphthalene, 1,5-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.59 | 15.32 ng | 470457 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |
| 3 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 4 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

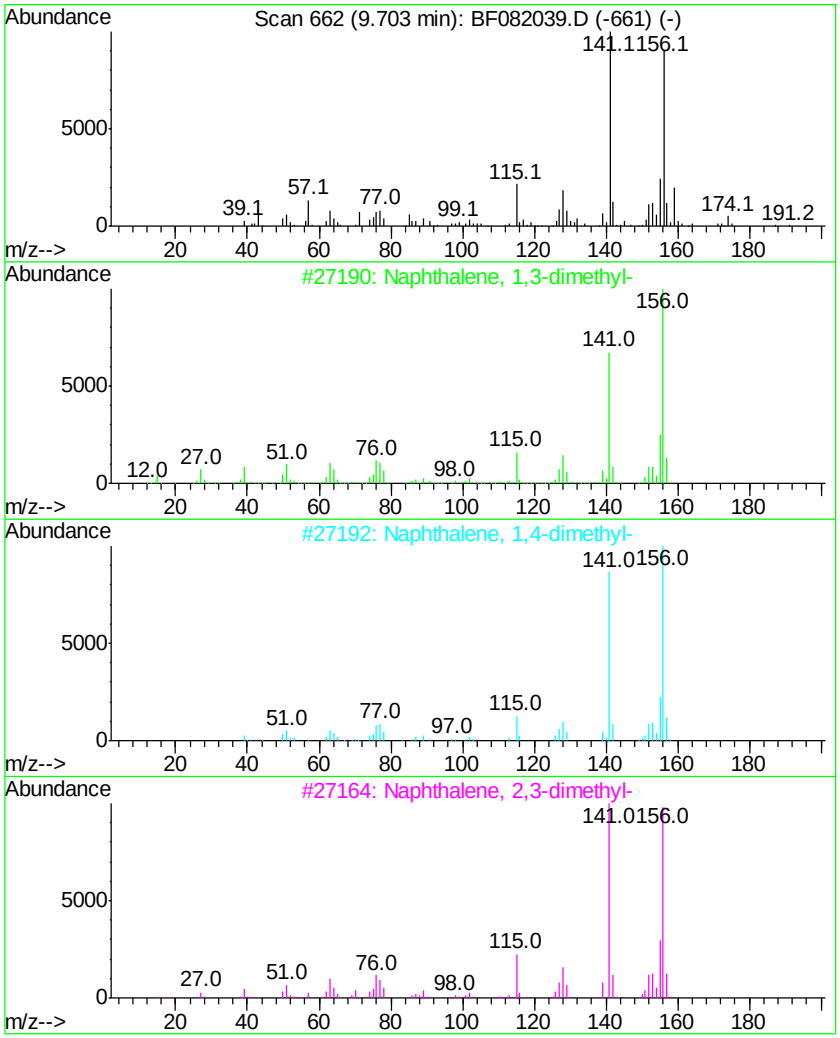
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

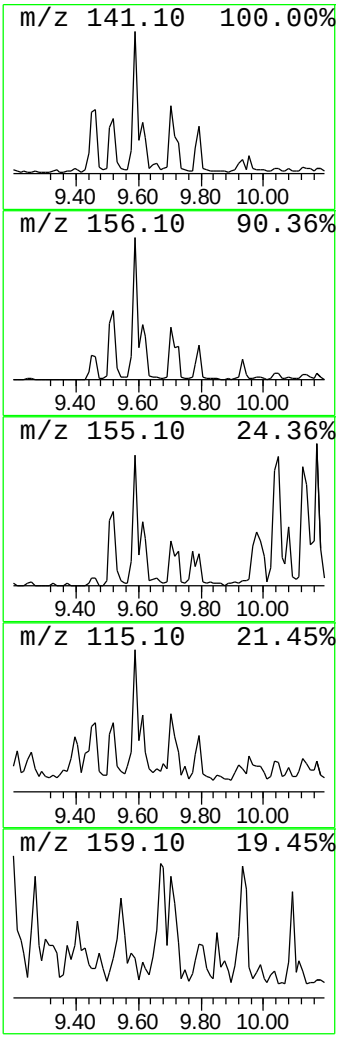
**********

Peak Number 11 Naphthalene, 1,3-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.70 | 7.93 ng | 243472 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |
| 4 | Naphthalene, 1,8-dimethyl- | 156 | C12H12 | 000569-41-5 | 95 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

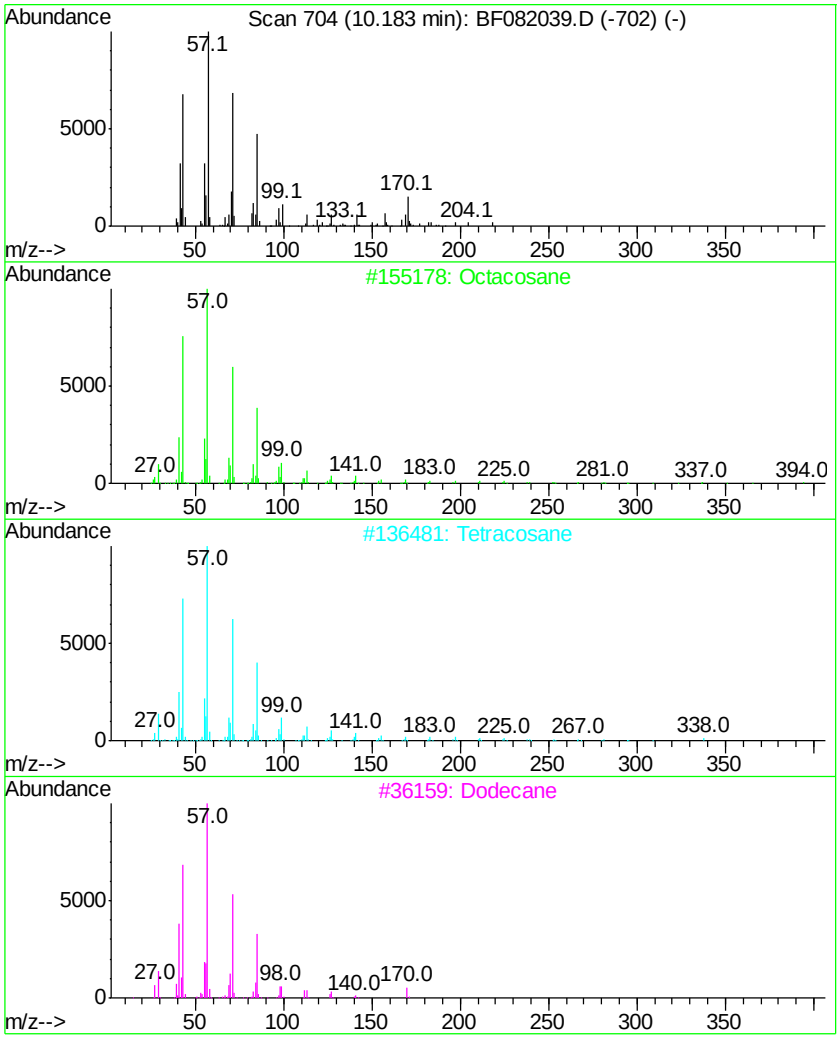
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

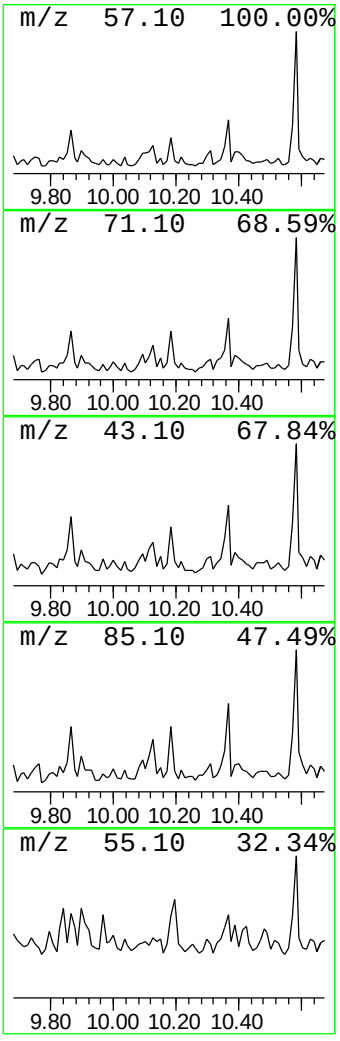
**********

Peak Number 12 Octacosane Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.18 | 7.96 ng | 244362 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 83 |
| 2 | Tetracosane | 338 | C24H50 | 000646-31-1 | 80 |
| 3 | Dodecane | 170 | C12H26 | 000112-40-3 | 74 |
| 4 | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54 | 055282-11-6 | 72 |
| 5 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

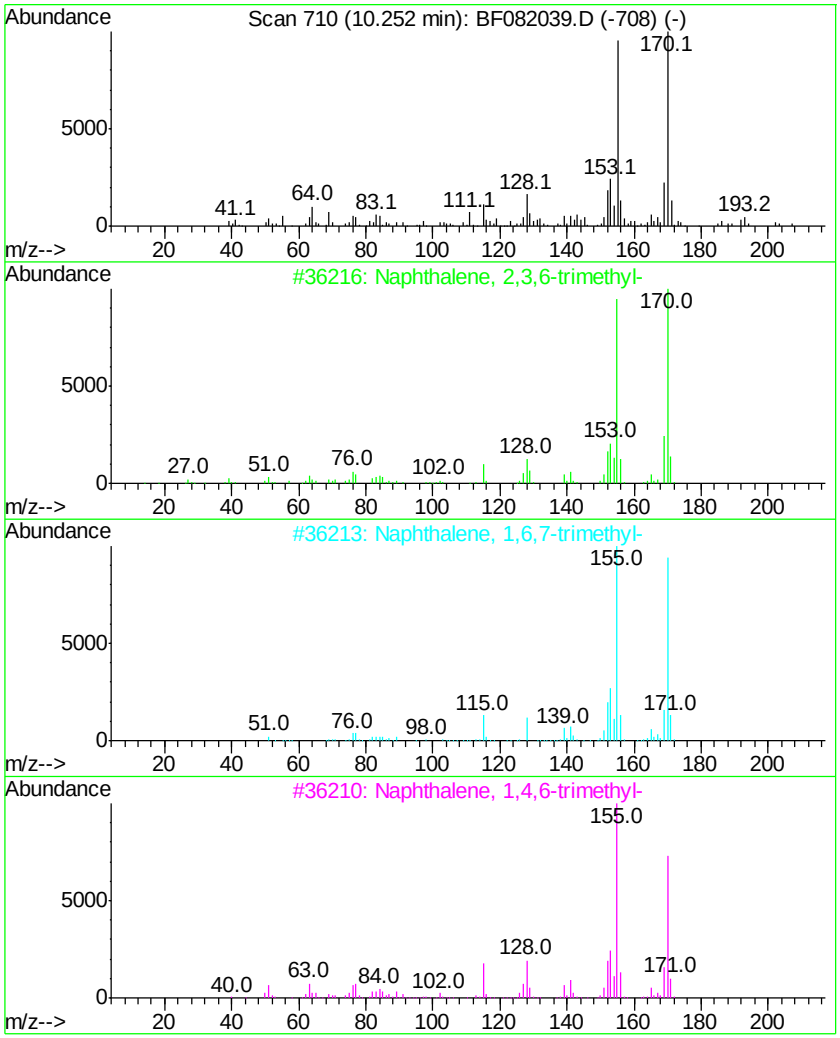
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

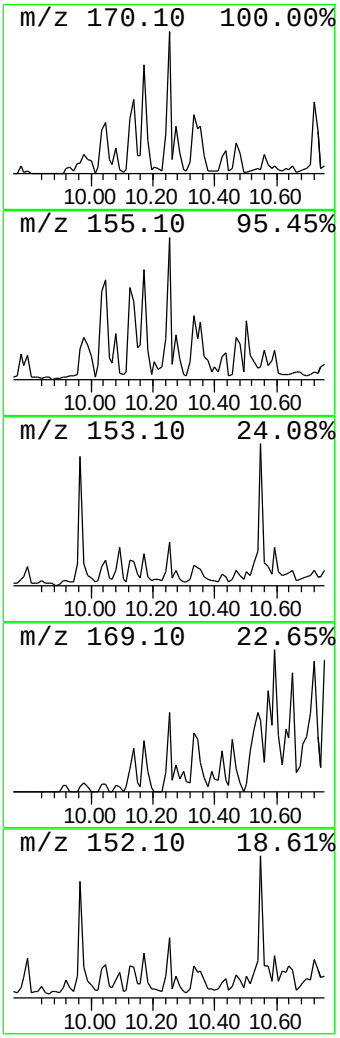
**********

Peak Number 13 Naphthalene, 2,3,6-trimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.25 | 6.91 ng | 212221 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 97 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 95 |
| 4 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 95 |
| 5 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.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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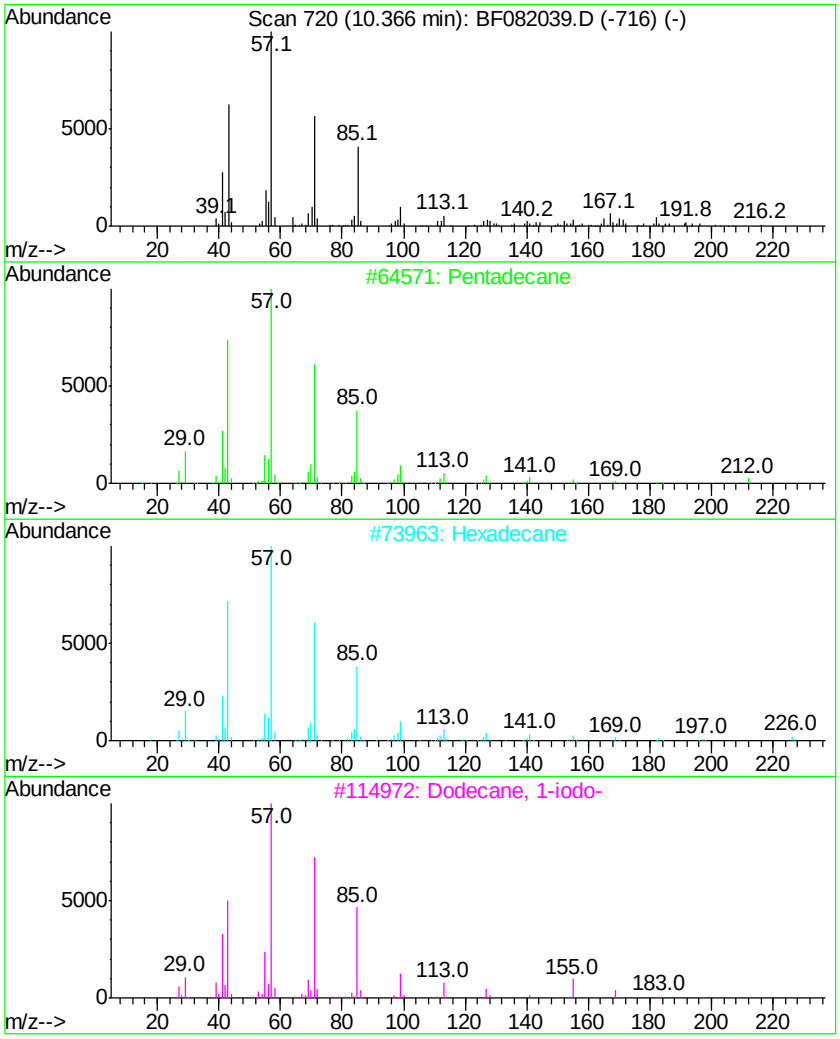
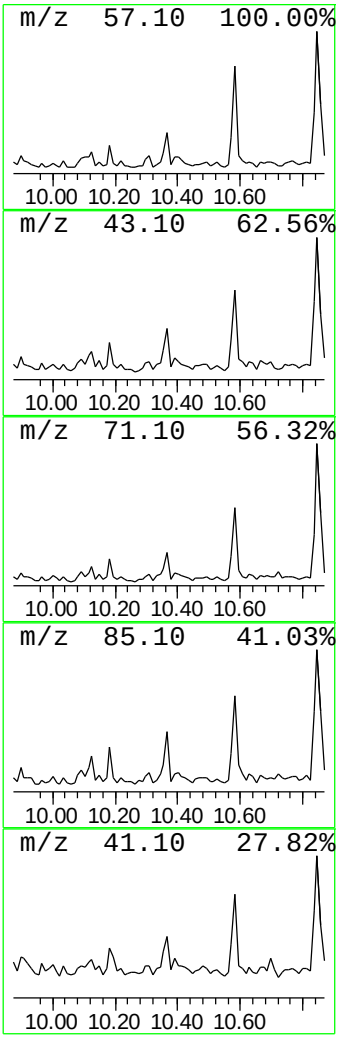
Peak Number 14 Pentadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.37 | 8.86 ng | 271976 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane | 212 | C15H32 | 000629-62-9 | 83 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 3 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 80 |
| 4 | Dodecane, 2-methyl-6-propyl- | 226 | C16H34 | 055045-08-4 | 80 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.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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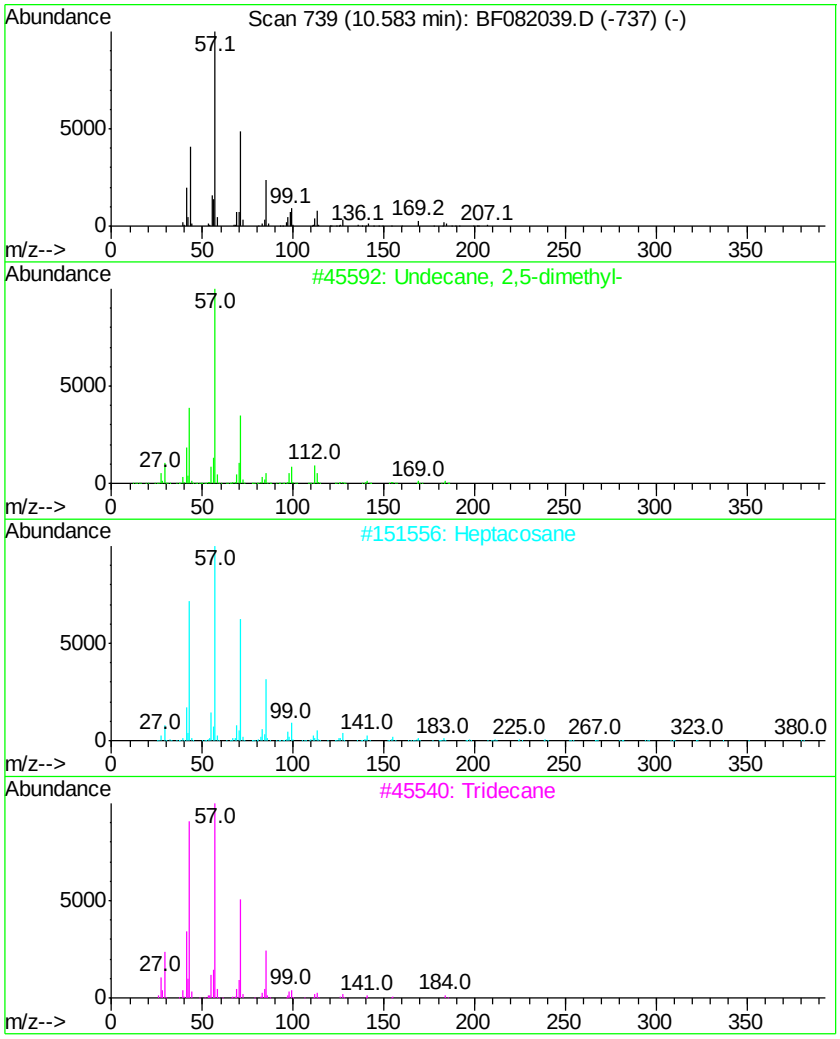
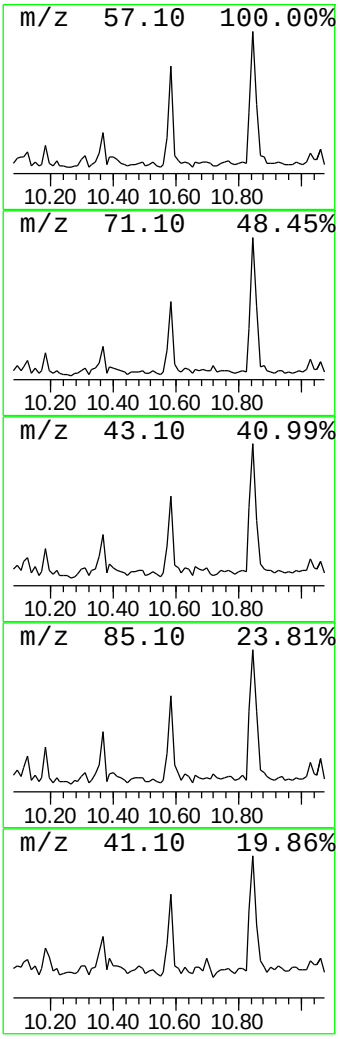
Peak Number 16 Undecane, 2,5-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.58 | 11.67 ng | 358326 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2,5-dimethyl- | 184 | C13H28 | 017301-22-3 | 81 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 72 |
| 4 | Tetracosane | 338 | C24H50 | 000646-31-1 | 72 |
| 5 | Undecane, 2,6-dimethyl- | 184 | C13H28 | 017301-23-4 | 68 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

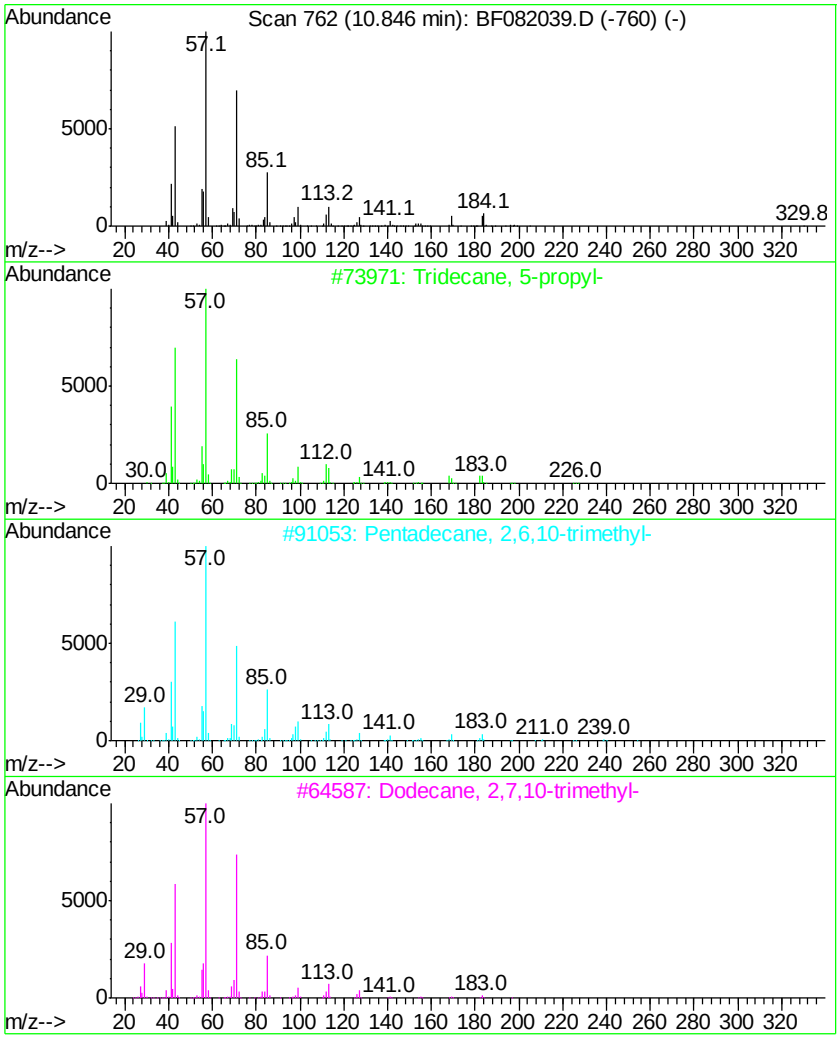
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

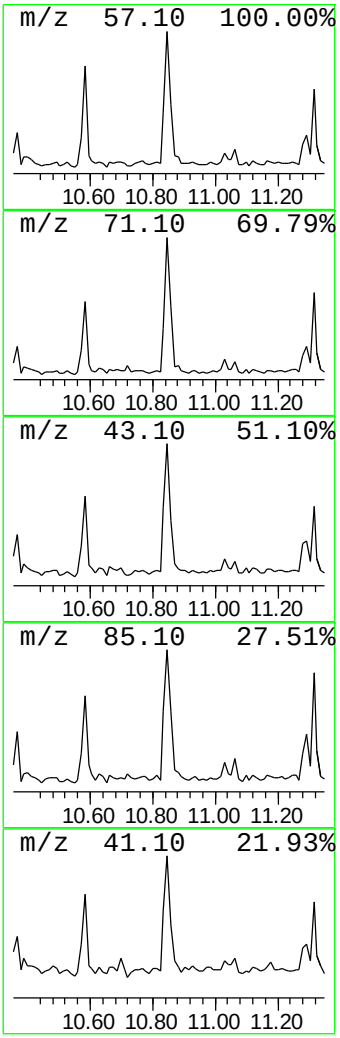
**********

Peak Number 17 Tridecane, 5-propyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.85 | 21.93 ng | 731949 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 86 |
| 2 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 86 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 4 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 76 |
| 5 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

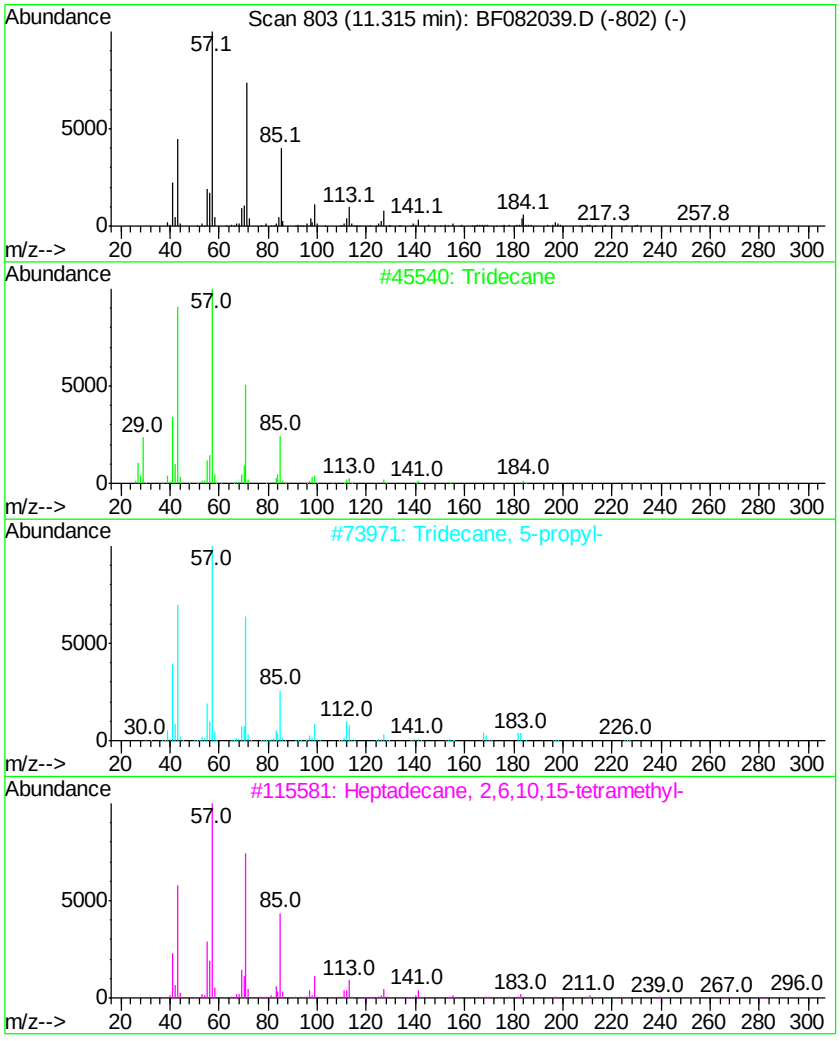
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

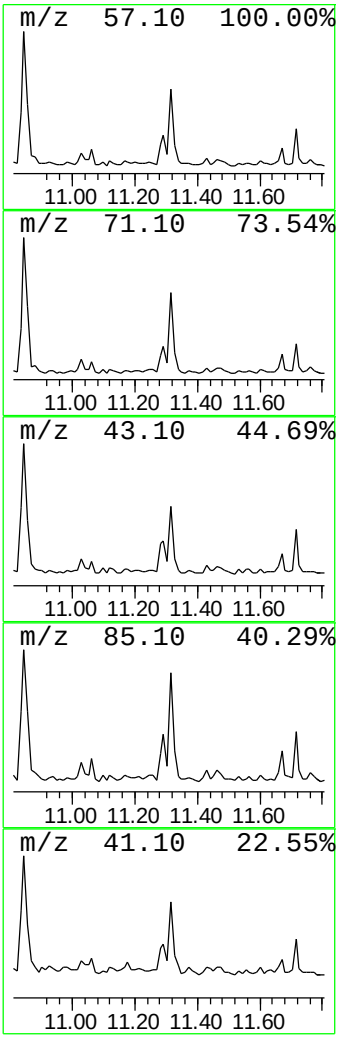
**********

Peak Number 18 Tridecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.31 | 9.28 ng | 309831 | Phenanthrene-d10 | 11.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 91 |
| 2 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 90 |
| 3 | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44 | 054833-48-6 | 90 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 5 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

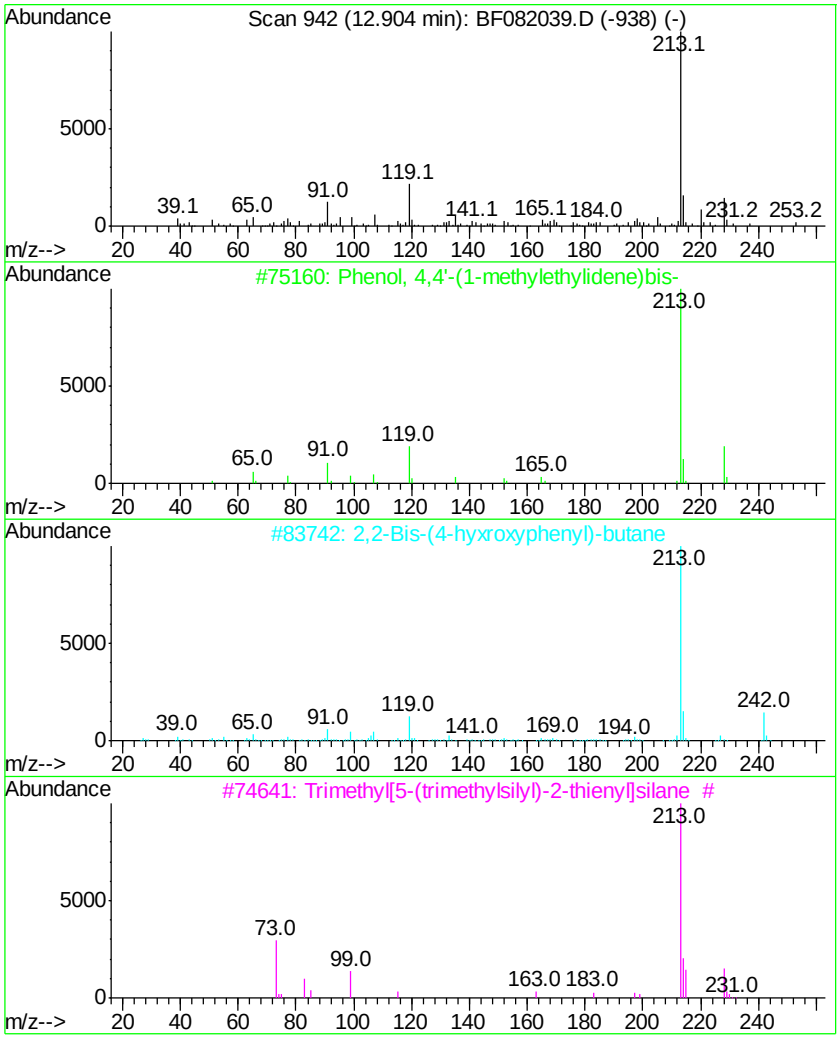
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

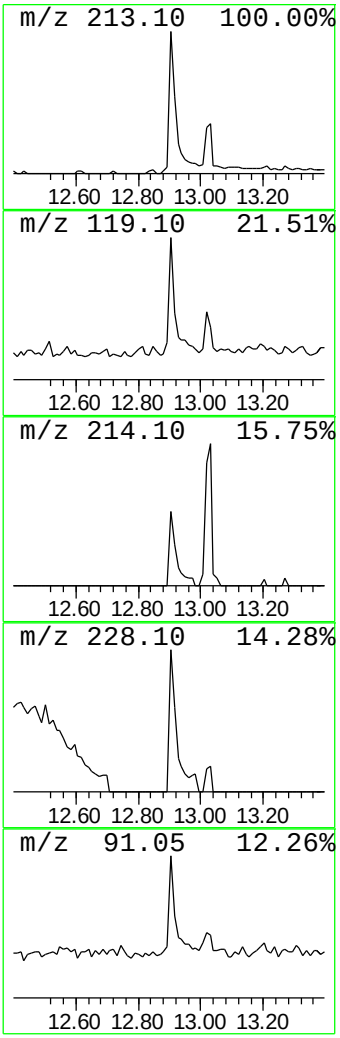
**********

Peak Number 19 Phenol, 4,4'-(1-methylethyl... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.90 | 7.96 ng | 227910 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4,4'-(1-methylethylidene... | 228 | C15H16O2 | 000080-05-7 | 94 |
| 2 | 2,2-Bis-(4-hyxroxyphenyl)-butane | 242 | C16H18O2 | 000077-40-7 | 59 |
| 3 | Trimethyl[5-(trimethylsilyl)-2-t... | 228 | C10H20SSi2 | 017906-71-7 | 53 |
| 4 | 2H,8H-Benzo[1,2-b:5,4-b']dipyran... | 228 | C14H12O3 | 000553-19-5 | 53 |
| 5 | 1,4-Naphthalenedione, 2-(1-buten... | 228 | C14H12O3 | 029366-43-6 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

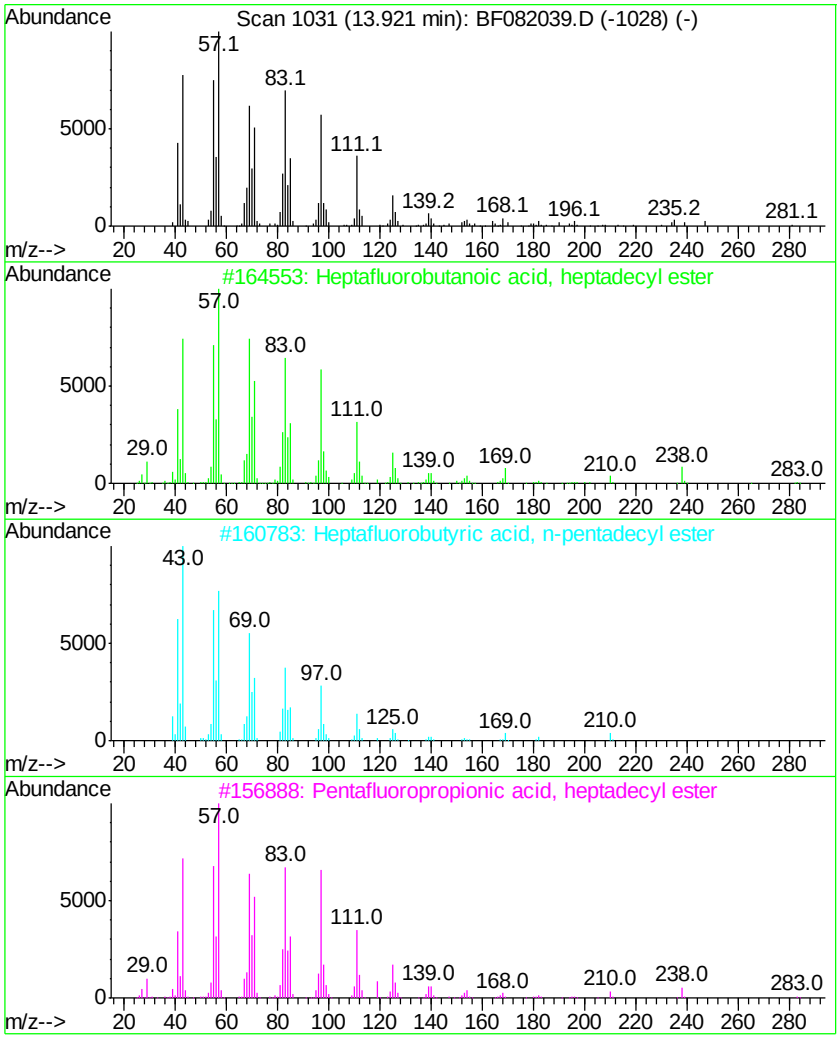
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

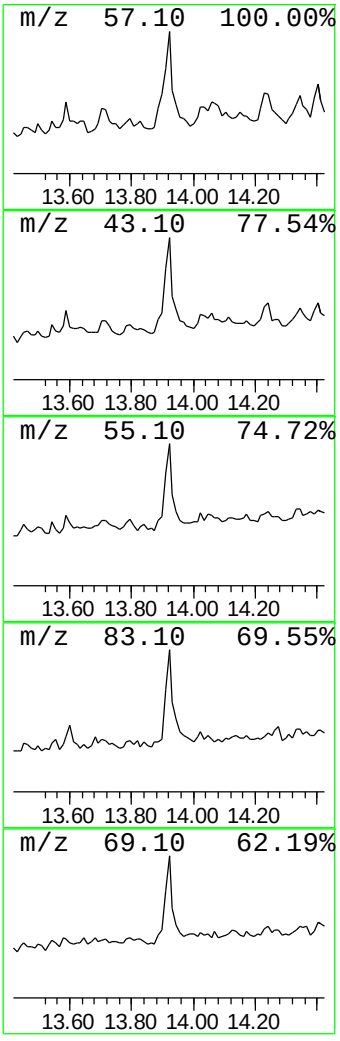
**********

Peak Number 20 Heptafluorobutanoic acid, h... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.92 | 8.70 ng | 248918 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 94 |
| 2 | Heptafluorobutyric acid, n-penta... | 424 | C19H31F7O2 | 1000216-79-3 | 91 |
| 3 | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 1000283-04-2 | 91 |
| 4 | 1-Hexadecanesulfonyl chloride | 324 | C16H33ClO2S | 038775-38-1 | 91 |
| 5 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100215\
Data File : BF082039.D
Acq On : 3 Oct 2015 23:54
Operator : UM/IZ
Sample : G3891-11
Misc :
ALS Vial : 59 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SS-9(0-24)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.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... | 5.06 | 43.7 | ng | 861389 | 1 | 6.89 | 394348 | 20.0 |
| unknown6.65 | 6.65 | 89.2 | ng | 1758210 | 1 | 6.89 | 394348 | 20.0 |
| Octane, 3,5-dimet... | 8.59 | 7.0 | ng | 318562 | 2 | 8.17 | 913151 | 20.0 |
| Pentadecane, 2,6,... | 9.19 | 10.9 | ng | 336214 | 3 | 9.93 | 614239 | 20.0 |
| Tetracontane, 3,5... | 9.33 | 7.1 | ng | 217336 | 3 | 9.93 | 614239 | 20.0 |
| Naphthalene, 1,2,... | 9.39 | 8.3 | ng | 253669 | 3 | 9.93 | 614239 | 20.0 |
| Naphthalene, 2,7-... | 9.52 | 7.0 | ng | 215157 | 3 | 9.93 | 614239 | 20.0 |
| Naphthalene, 1,5-... | 9.59 | 15.3 | ng | 470457 | 3 | 9.93 | 614239 | 20.0 |
| Naphthalene, 1,3-... | 9.70 | 7.9 | ng | 243472 | 3 | 9.93 | 614239 | 20.0 |
| Octacosane | 10.18 | 8.0 | ng | 244362 | 3 | 9.93 | 614239 | 20.0 |
| Naphthalene, 2,3,... | 10.25 | 6.9 | ng | 212221 | 3 | 9.93 | 614239 | 20.0 |
| Pentadecane | 10.37 | 8.9 | ng | 271976 | 3 | 9.93 | 614239 | 20.0 |
| Undecane, 2,5-dim... | 10.58 | 11.7 | ng | 358326 | 3 | 9.93 | 614239 | 20.0 |
| Tridecane, 5-propyl- | 10.85 | 21.9 | ng | 731949 | 4 | 11.43 | 667671 | 20.0 |
| Tridecane | 11.31 | 9.3 | ng | 309831 | 4 | 11.43 | 667671 | 20.0 |
| Phenol, 4,4'-(1-m... | 12.90 | 8.0 | ng | 227910 | 5 | 14.08 | 572390 | 20.0 |
| Heptafluorobutano... | 13.92 | 8.7 | ng | 248918 | 5 | 14.08 | 572390 | 20.0 |