LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(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-BF123115.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 | 3.699 | 131 | 141 | 144 | rBV2 | 73293 | 184909 | 3.13% | 0.190% |
| 2 | 4.887 | 240 | 245 | 249 | rBV2 | 119783 | 244521 | 4.14% | 0.252% |
| 3 | 4.967 | 249 | 252 | 255 | rBV | 1881585 | 3369003 | 57.00% | 3.471% |
| 4 | 5.173 | 267 | 270 | 271 | rBV | 180416 | 223103 | 3.77% | 0.230% |
| 5 | 5.264 | 275 | 278 | 283 | rVB3 | 95513 | 190225 | 3.22% | 0.196% |
| 6 | 5.367 | 283 | 287 | 288 | rBV2 | 257142 | 469143 | 7.94% | 0.483% |
| 7 | 5.402 | 288 | 290 | 292 | rVV | 5478778 | 5378269 | 90.99% | 5.541% |
| 8 | 5.630 | 308 | 310 | 313 | rVB3 | 106561 | 190389 | 3.22% | 0.196% |
| 9 | 5.687 | 313 | 315 | 318 | rVB | 223051 | 214770 | 3.63% | 0.221% |
| 10 | 5.802 | 322 | 325 | 327 | rBV2 | 280124 | 427947 | 7.24% | 0.441% |
| 11 | 5.859 | 327 | 330 | 334 | rBV3 | 106432 | 260028 | 4.40% | 0.268% |
| 12 | 5.939 | 334 | 337 | 339 | rVB2 | 260800 | 336010 | 5.68% | 0.346% |
| 13 | 5.984 | 339 | 341 | 344 | rBV2 | 108570 | 212265 | 3.59% | 0.219% |
| 14 | 6.030 | 344 | 345 | 348 | rVB | 443292 | 554088 | 9.37% | 0.571% |
| 15 | 6.087 | 348 | 350 | 352 | rBV | 203257 | 196512 | 3.32% | 0.202% |
| 16 | 6.224 | 359 | 362 | 364 | rBV | 247295 | 348853 | 5.90% | 0.359% |
| 17 | 6.293 | 364 | 368 | 369 | rVV2 | 190556 | 255414 | 4.32% | 0.263% |
| 18 | 6.316 | 369 | 370 | 374 | rVB3 | 229555 | 359050 | 6.07% | 0.370% |
| 19 | 6.385 | 374 | 376 | 378 | rBV | 223224 | 228901 | 3.87% | 0.236% |
| 20 | 6.442 | 378 | 381 | 383 | rBV | 5125782 | 5910519 | 100.00% | 6.089% |
| 21 | 6.567 | 389 | 392 | 394 | rVB | 4693608 | 5726431 | 96.89% | 5.899% |
| 22 | 6.636 | 394 | 398 | 400 | rVB3 | 348806 | 623796 | 10.55% | 0.643% |
| 23 | 6.796 | 410 | 412 | 415 | rVB2 | 1208533 | 1754494 | 29.68% | 1.807% |
| 24 | 6.853 | 415 | 417 | 419 | rBV | 311328 | 345425 | 5.84% | 0.356% |
| 25 | 6.945 | 423 | 425 | 427 | rVV | 3593563 | 4069828 | 68.86% | 4.193% |
| 26 | 7.070 | 429 | 436 | 438 | rBV3 | 233376 | 633320 | 10.72% | 0.652% |
| 27 | 7.116 | 438 | 440 | 441 | rBV2 | 434508 | 464928 | 7.87% | 0.479% |
| 28 | 7.139 | 441 | 442 | 444 | rVB | 200923 | 181251 | 3.07% | 0.187% |
| 29 | 7.185 | 444 | 446 | 448 | rBV | 381703 | 401732 | 6.80% | 0.414% |
| 30 | 7.287 | 451 | 455 | 456 | rBV | 210289 | 300029 | 5.08% | 0.309% |
| 31 | 7.356 | 456 | 461 | 463 | rBV2 | 2854142 | 4432973 | 75.00% | 4.567% |
| 32 | 7.402 | 463 | 465 | 466 | rVB | 485055 | 432555 | 7.32% | 0.446% |
| 33 | 7.447 | 466 | 469 | 470 | rBV3 | 254583 | 361702 | 6.12% | 0.373% |
| 34 | 7.482 | 470 | 472 | 473 | rBV | 222672 | 243144 | 4.11% | 0.250% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(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-BF123115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.516 | 473 | 475 | 477 | rVB | 181949 | 231894 | 3.92% | 0.239% |
| 36 | 7.573 | 477 | 480 | 481 | rBV | 548385 | 890380 | 15.06% | 0.917% |
| 37 | 7.596 | 481 | 482 | 484 | rVB | 837416 | 694721 | 11.75% | 0.716% |
| 38 | 7.733 | 487 | 494 | 495 | rBV6 | 386194 | 1258858 | 21.30% | 1.297% |
| 39 | 7.768 | 495 | 497 | 499 | rVB2 | 264494 | 351411 | 5.95% | 0.362% |
| 40 | 7.813 | 499 | 501 | 506 | rBV4 | 761886 | 1491494 | 25.23% | 1.537% |
| 41 | 7.905 | 506 | 509 | 511 | rVB4 | 290936 | 570021 | 9.64% | 0.587% |
| 42 | 7.950 | 511 | 513 | 515 | rBV | 261324 | 268542 | 4.54% | 0.277% |
| 43 | 8.042 | 518 | 521 | 522 | rBV3 | 347823 | 672348 | 11.38% | 0.693% |
| 44 | 8.076 | 522 | 524 | 525 | rVV2 | 2737399 | 3206810 | 54.26% | 3.304% |
| 45 | 8.145 | 528 | 530 | 537 | rVB3 | 521735 | 1436261 | 24.30% | 1.480% |
| 46 | 8.248 | 537 | 539 | 541 | rBV3 | 147243 | 292406 | 4.95% | 0.301% |
| 47 | 8.373 | 546 | 550 | 554 | rVV6 | 459759 | 1409671 | 23.85% | 1.452% |
| 48 | 8.465 | 556 | 558 | 560 | rVV | 835654 | 763135 | 12.91% | 0.786% |
| 49 | 8.510 | 560 | 562 | 564 | rVV | 1037799 | 1201315 | 20.33% | 1.238% |
| 50 | 8.545 | 564 | 565 | 567 | rVV | 516718 | 494287 | 8.36% | 0.509% |
| 51 | 8.590 | 567 | 569 | 570 | rVV | 213503 | 321353 | 5.44% | 0.331% |
| 52 | 8.625 | 570 | 572 | 575 | rVV3 | 149552 | 362566 | 6.13% | 0.374% |
| 53 | 8.682 | 575 | 577 | 578 | rVV2 | 986291 | 1133621 | 19.18% | 1.168% |
| 54 | 8.716 | 578 | 580 | 583 | rVV2 | 326341 | 707089 | 11.96% | 0.728% |
| 55 | 8.796 | 583 | 587 | 588 | rVB2 | 366410 | 799722 | 13.53% | 0.824% |
| 56 | 8.830 | 588 | 590 | 591 | rBV | 123323 | 178936 | 3.03% | 0.184% |
| 57 | 8.888 | 593 | 595 | 597 | rVV | 395210 | 487988 | 8.26% | 0.503% |
| 58 | 8.990 | 600 | 604 | 606 | rVV3 | 218732 | 501547 | 8.49% | 0.517% |
| 59 | 9.036 | 606 | 608 | 610 | rVV3 | 122412 | 246940 | 4.18% | 0.254% |
| 60 | 9.070 | 610 | 611 | 613 | rVV2 | 177017 | 235448 | 3.98% | 0.243% |
| 61 | 9.105 | 613 | 614 | 616 | rVV | 444014 | 496564 | 8.40% | 0.512% |
| 62 | 9.162 | 616 | 619 | 621 | rVB | 5998859 | 5874987 | 99.40% | 6.052% |
| 63 | 9.242 | 623 | 626 | 628 | rBV2 | 671184 | 910245 | 15.40% | 0.938% |
| 64 | 9.299 | 628 | 631 | 634 | rVV5 | 152489 | 476884 | 8.07% | 0.491% |
| 65 | 9.413 | 638 | 641 | 644 | rVV3 | 247384 | 511311 | 8.65% | 0.527% |
| 66 | 9.493 | 646 | 648 | 651 | rVV2 | 498517 | 750729 | 12.70% | 0.773% |
| 67 | 9.562 | 651 | 654 | 656 | rVV3 | 1125705 | 2386674 | 40.38% | 2.459% |
| 68 | 9.596 | 656 | 657 | 661 | rVB2 | 235669 | 353184 | 5.98% | 0.364% |
| 69 | 9.699 | 663 | 666 | 668 | rBV3 | 388368 | 525612 | 8.89% | 0.541% |
| 70 | 9.745 | 668 | 670 | 671 | rVB | 815202 | 624879 | 10.57% | 0.644% |
| 71 | 9.768 | 671 | 672 | 674 | rBV | 295295 | 423763 | 7.17% | 0.437% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(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-BF123115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.836 | 674 | 678 | 680 | rVV | 1961710 | 2219711 | 37.56% | 2.287% |
| 73 | 9.939 | 686 | 687 | 689 | rVB2 | 180783 | 220115 | 3.72% | 0.227% |
| 74 | 9.996 | 689 | 692 | 694 | rBV3 | 105154 | 246262 | 4.17% | 0.254% |
| 75 | 10.031 | 694 | 695 | 697 | rVB | 273289 | 265565 | 4.49% | 0.274% |
| 76 | 10.156 | 703 | 706 | 709 | rBV4 | 199818 | 443484 | 7.50% | 0.457% |
| 77 | 10.236 | 712 | 713 | 715 | rBV | 273512 | 319050 | 5.40% | 0.329% |
| 78 | 10.271 | 715 | 716 | 717 | rVB | 476014 | 327905 | 5.55% | 0.338% |
| 79 | 10.488 | 733 | 735 | 738 | rVB | 483519 | 614733 | 10.40% | 0.633% |
| 80 | 10.625 | 744 | 747 | 749 | rBV | 3274944 | 3701581 | 62.63% | 3.813% |
| 81 | 10.762 | 756 | 759 | 761 | rBV | 981982 | 1695841 | 28.69% | 1.747% |
| 82 | 11.196 | 795 | 797 | 798 | rBV | 275530 | 353874 | 5.99% | 0.365% |
| 83 | 11.219 | 798 | 799 | 802 | rVB | 434946 | 449035 | 7.60% | 0.463% |
| 84 | 11.311 | 805 | 807 | 811 | rBV | 1560857 | 1907177 | 32.27% | 1.965% |
| 85 | 11.619 | 832 | 834 | 835 | rVB | 283647 | 219466 | 3.71% | 0.226% |
| 86 | 11.928 | 859 | 861 | 866 | rVB4 | 157320 | 336230 | 5.69% | 0.346% |
| 87 | 12.019 | 868 | 869 | 874 | rVB | 149794 | 192539 | 3.26% | 0.198% |
| 88 | 12.408 | 901 | 903 | 905 | rVB2 | 151776 | 207972 | 3.52% | 0.214% |
| 89 | 12.522 | 911 | 913 | 916 | rBV | 751659 | 654399 | 11.07% | 0.674% |
| 90 | 12.751 | 930 | 933 | 935 | rBV | 678188 | 668530 | 11.31% | 0.689% |
| 91 | 12.899 | 944 | 946 | 949 | rVB | 3883845 | 3939283 | 66.65% | 4.058% |
| 92 | 13.814 | 1023 | 1026 | 1035 | rBV3 | 183171 | 416341 | 7.04% | 0.429% |
| 93 | 13.951 | 1035 | 1038 | 1039 | rBV2 | 1275185 | 1575535 | 26.66% | 1.623% |
| 94 | 14.957 | 1123 | 1126 | 1131 | rBV | 340865 | 624838 | 10.57% | 0.644% |
| 95 | 15.243 | 1148 | 1151 | 1154 | rVV | 171904 | 219284 | 3.71% | 0.226% |
| 96 | 15.300 | 1154 | 1156 | 1158 | rVV | 197939 | 259000 | 4.38% | 0.267% |
| 97 | 15.357 | 1158 | 1161 | 1167 | rVB | 945584 | 1251626 | 21.18% | 1.289% |
| 98 | 16.706 | 1277 | 1279 | 1283 | rBV2 | 112125 | 201008 | 3.40% | 0.207% |
| 99 | 17.117 | 1311 | 1315 | 1322 | rVB | 99419 | 240435 | 4.07% | 0.248% |
| 100 | 19.151 | 1491 | 1493 | 1502 | rVB6 | 60546 | 230914 | 3.91% | 0.238% |

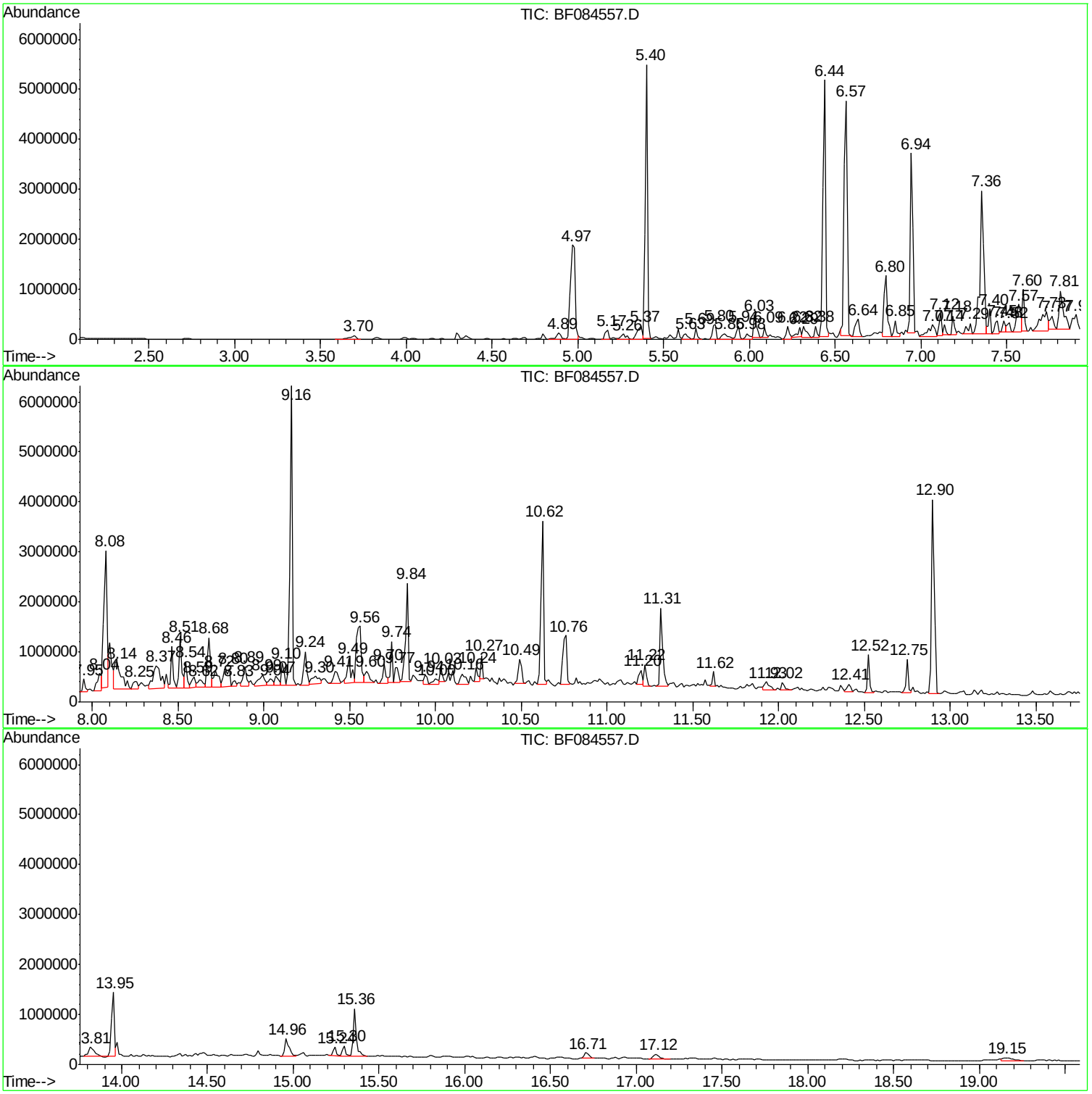
Sum of corrected areas: 97070856

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

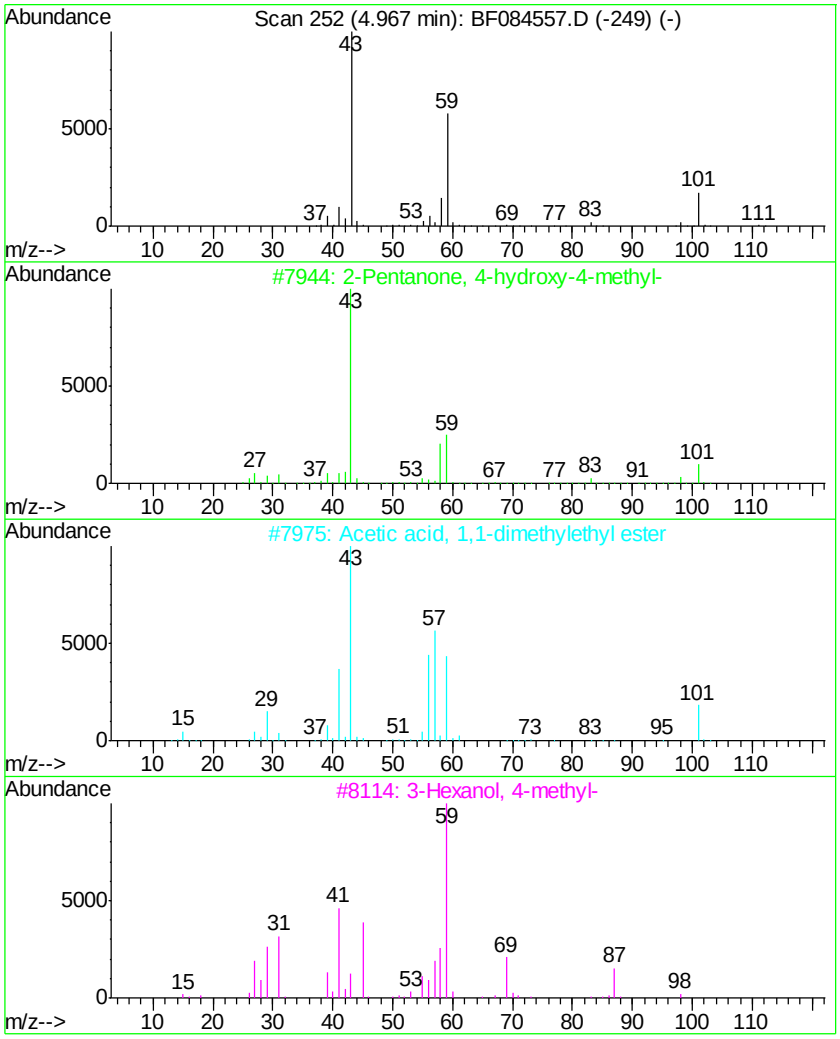
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

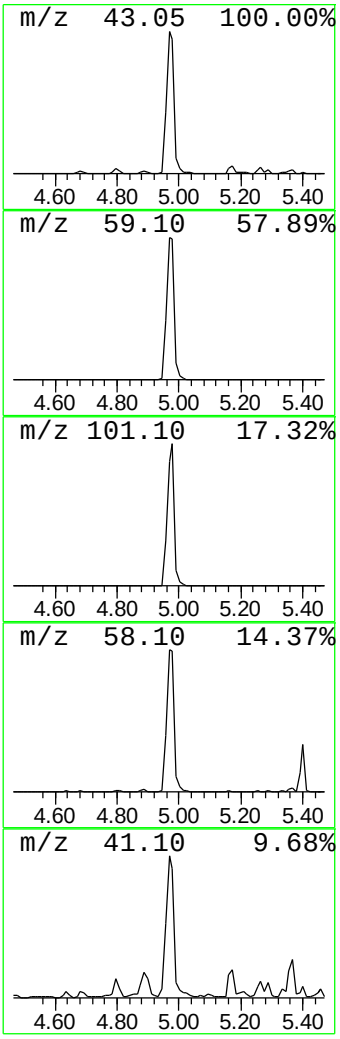
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.97 | 38.40 ng | 3369000 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 4 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 33 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

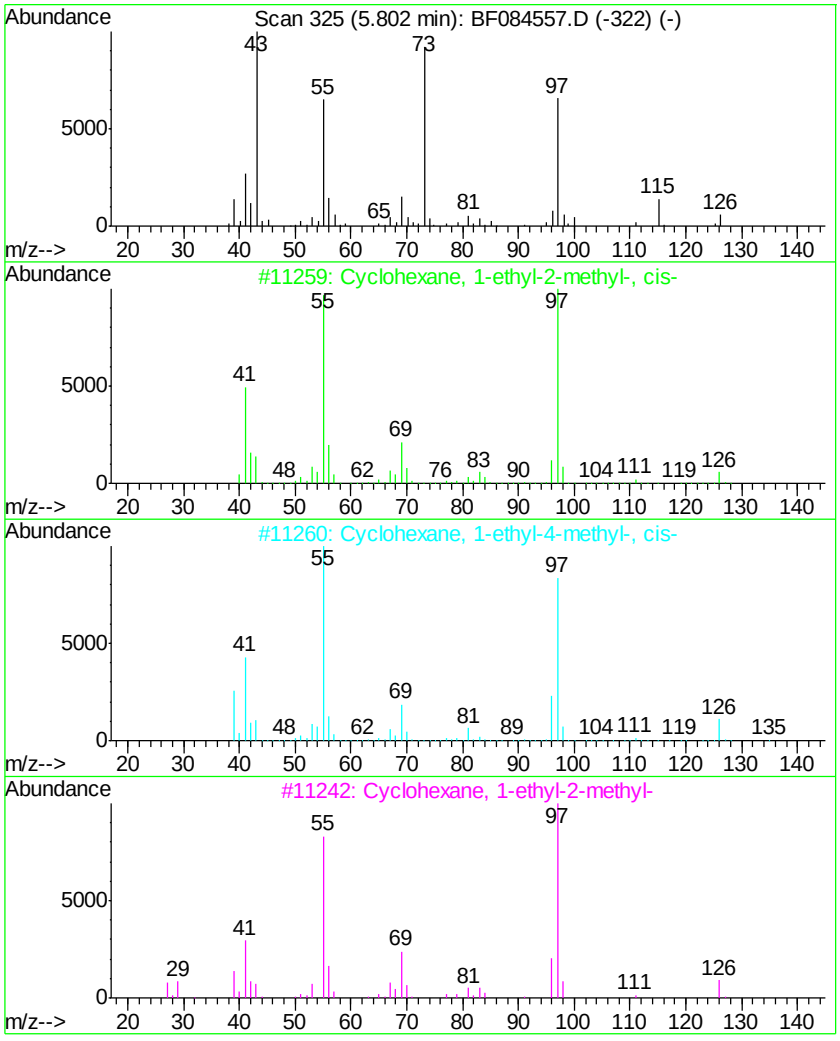
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

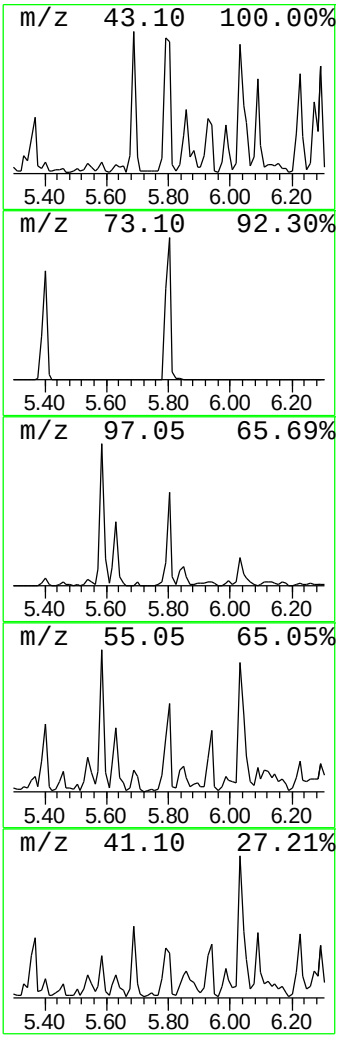
**********

Peak Number 2 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.80 | 4.88 ng | 427947 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-77-7 | 70 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 58 |
| 3 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 58 |
| 4 | cis-1-Ethyl-3-methylcyclohexane | 126 | C9H18 | 019489-10-2 | 52 |
| 5 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 52 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

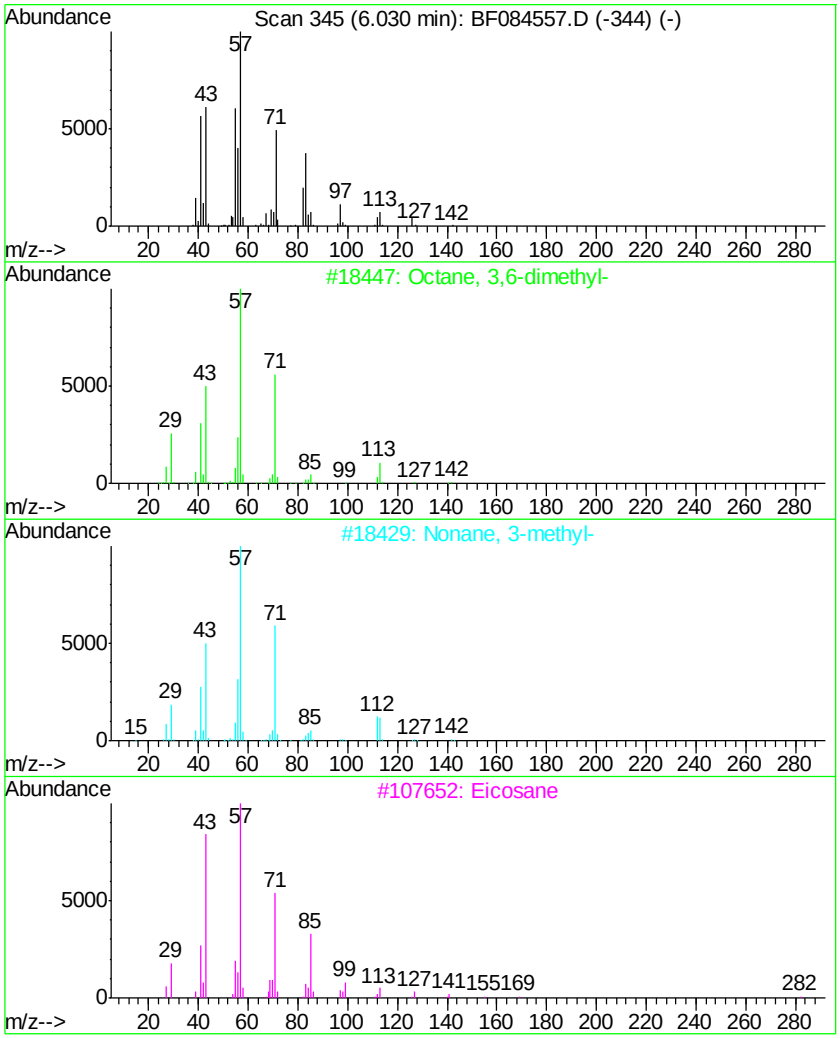
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

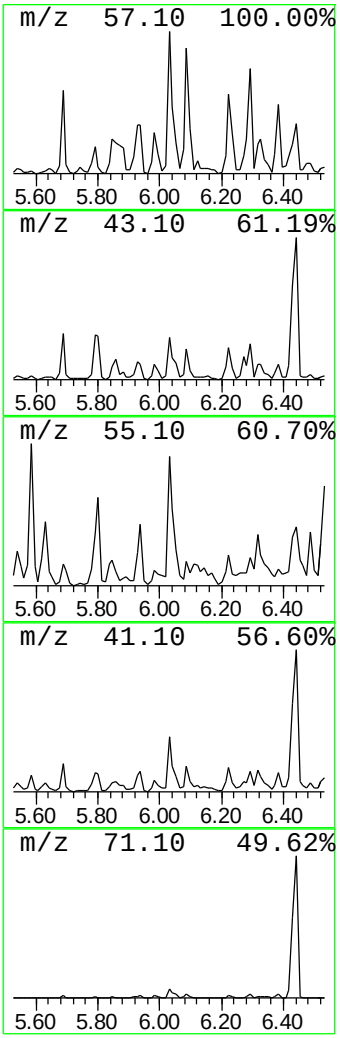
**********

Peak Number 3 unknown6.03 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.03 | 6.32 ng | 554088 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 46 |
| 2 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 43 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 38 |
| 4 | Octane, 2,3,7-trimethyl- | 156 | C11H24 | 062016-34-6 | 35 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

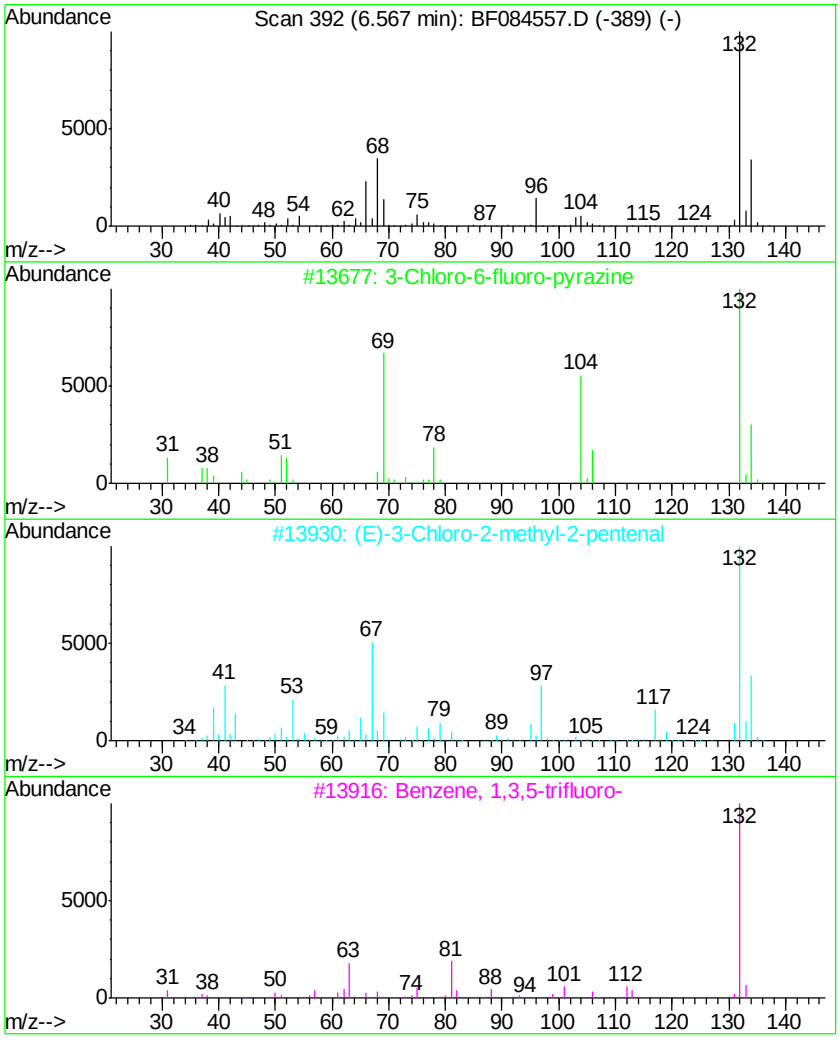
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

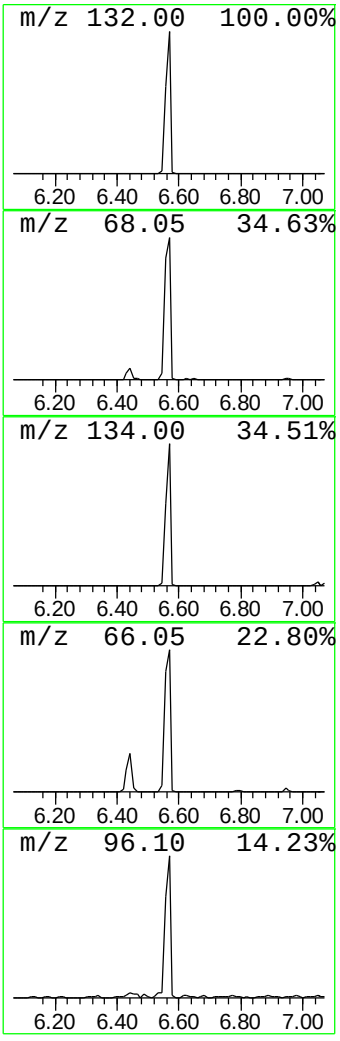
**********

Peak Number 4 unknown6.57 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.57 | 65.28 ng | 5726430 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 35 |
| 3 | Benzene, 1,3,5-trifluoro- | 132 | C6H3F3 | 000372-38-3 | 9 |
| 4 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 5 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

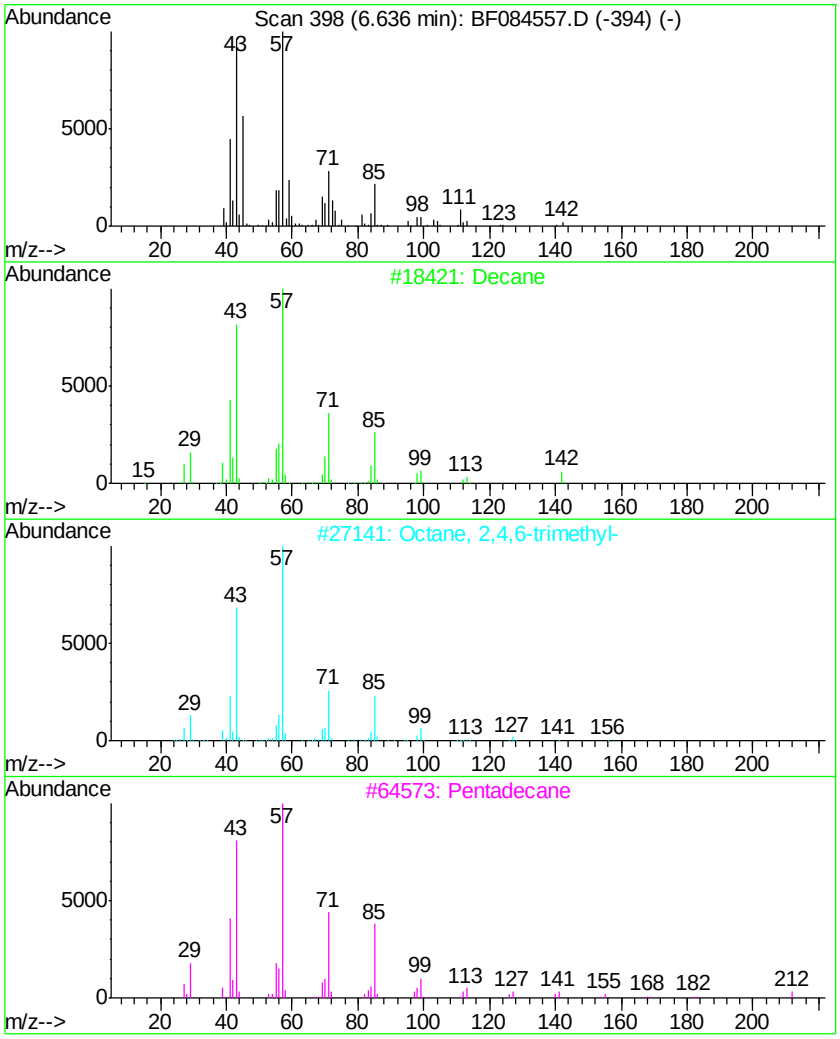
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

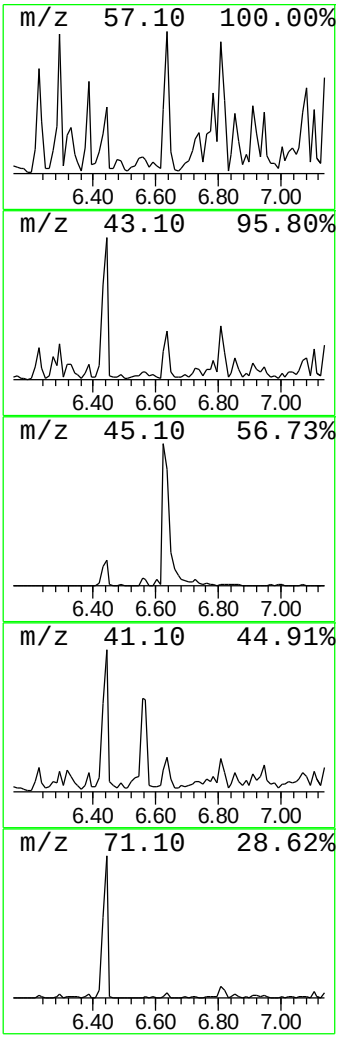
**********

Peak Number 5 Decane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.64 | 7.11 ng | 623796 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 50 |
| 2 | Octane, 2,4,6-trimethyl- | 156 | C11H24 | 062016-37-9 | 38 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 35 |
| 4 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 35 |
| 5 | Dotriacontane | 451 | C32H66 | 000544-85-4 | 35 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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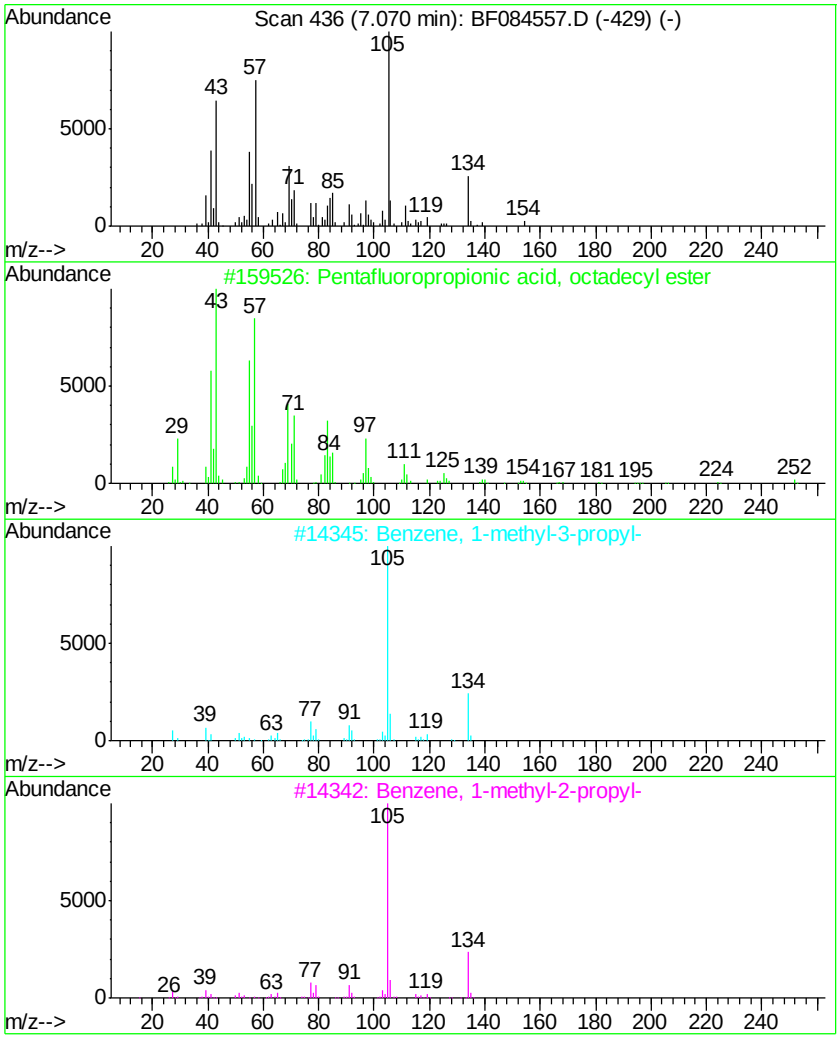
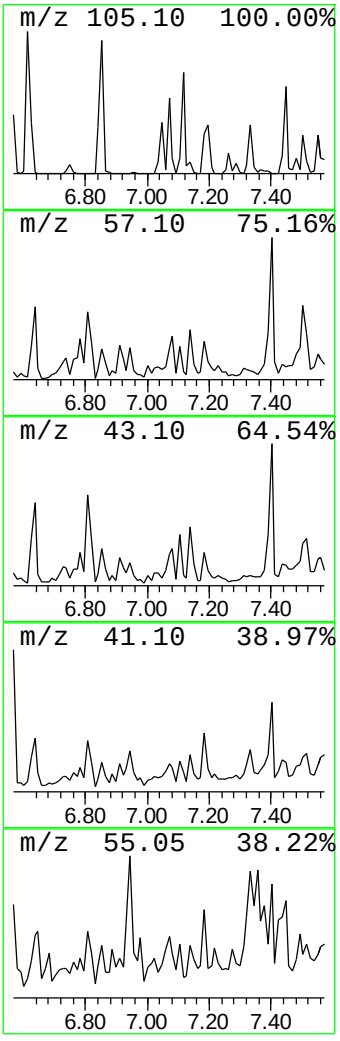
Peak Number 7 unknown7.07 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.07 | 7.22 ng | 633320 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 1000280-07-7 | 43 |
| 2 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 42 |
| 3 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 42 |
| 4 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 42 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 38 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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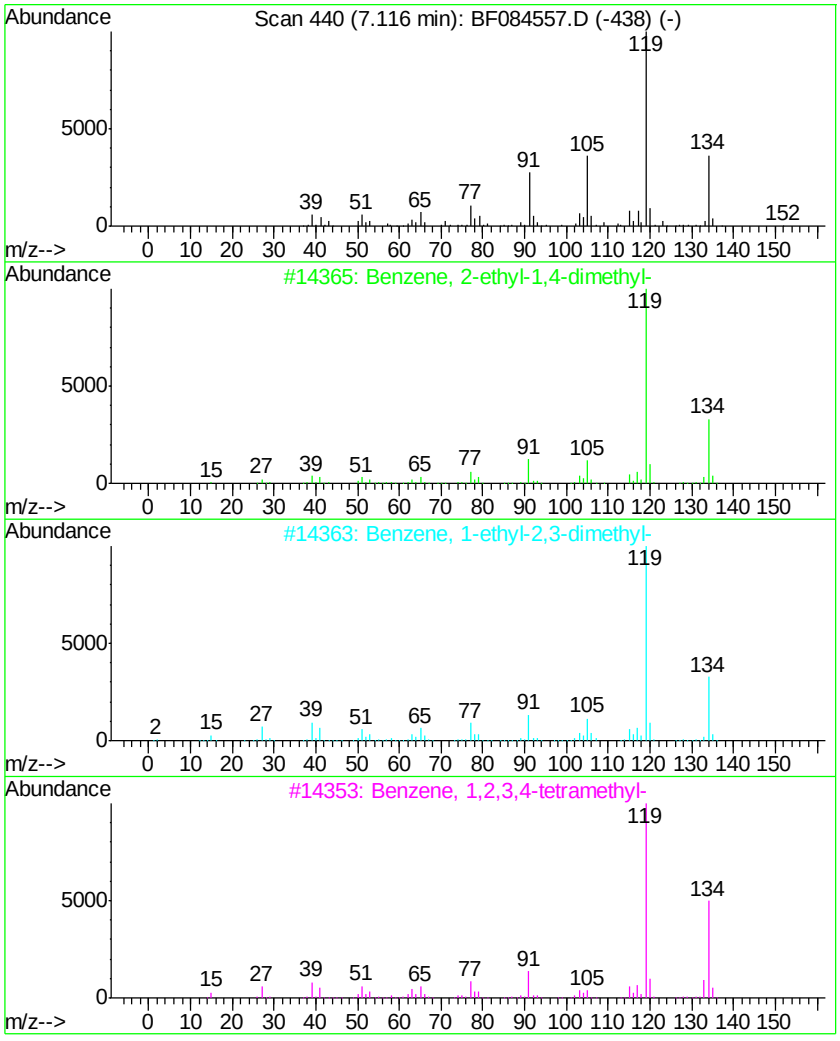
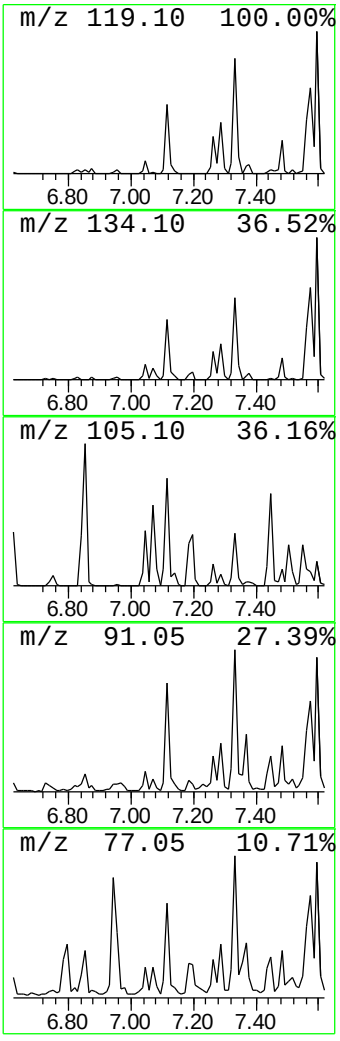
Peak Number 8 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.12 | 5.30 ng | 464928 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 94 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 93 |
| 3 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 91 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 90 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 90 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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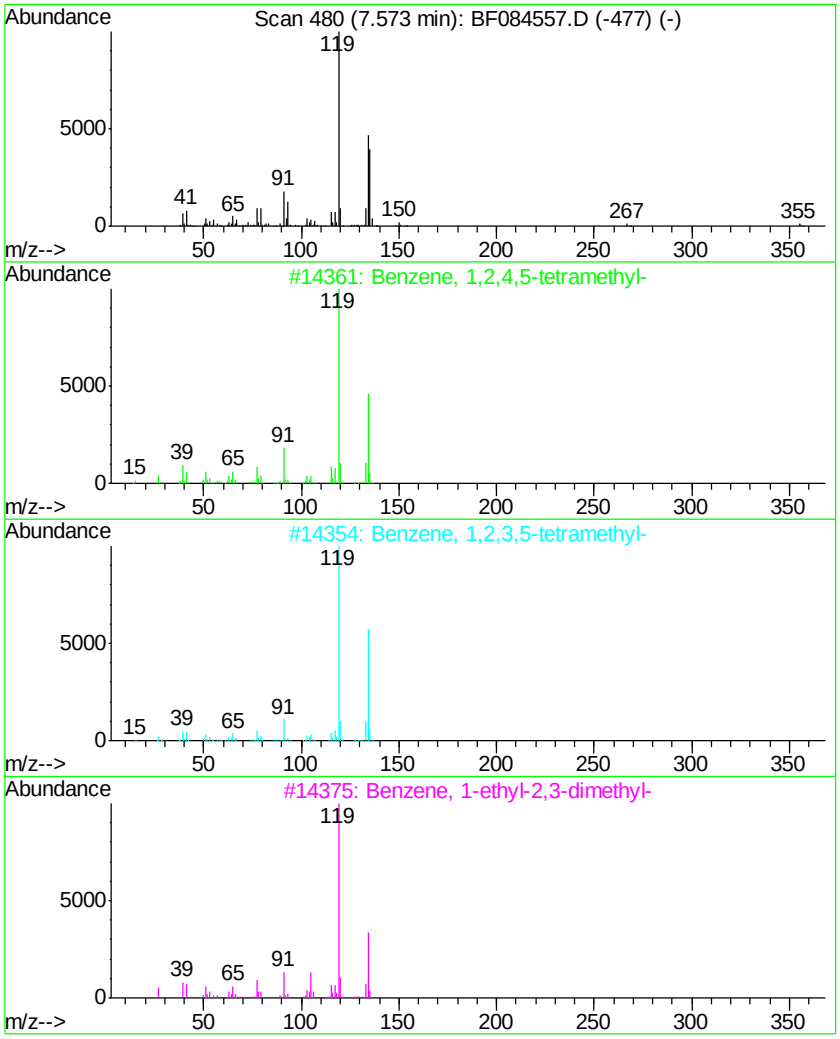
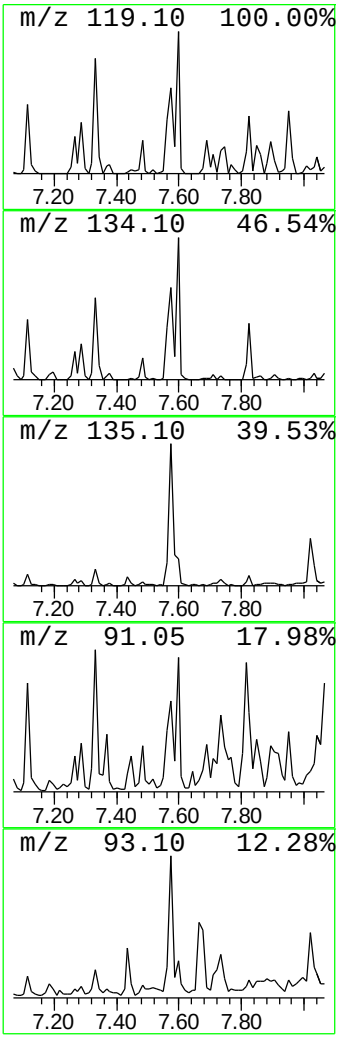
Peak Number 9 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.57 | 5.55 ng | 890380 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 93 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 93 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 76 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 76 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 76 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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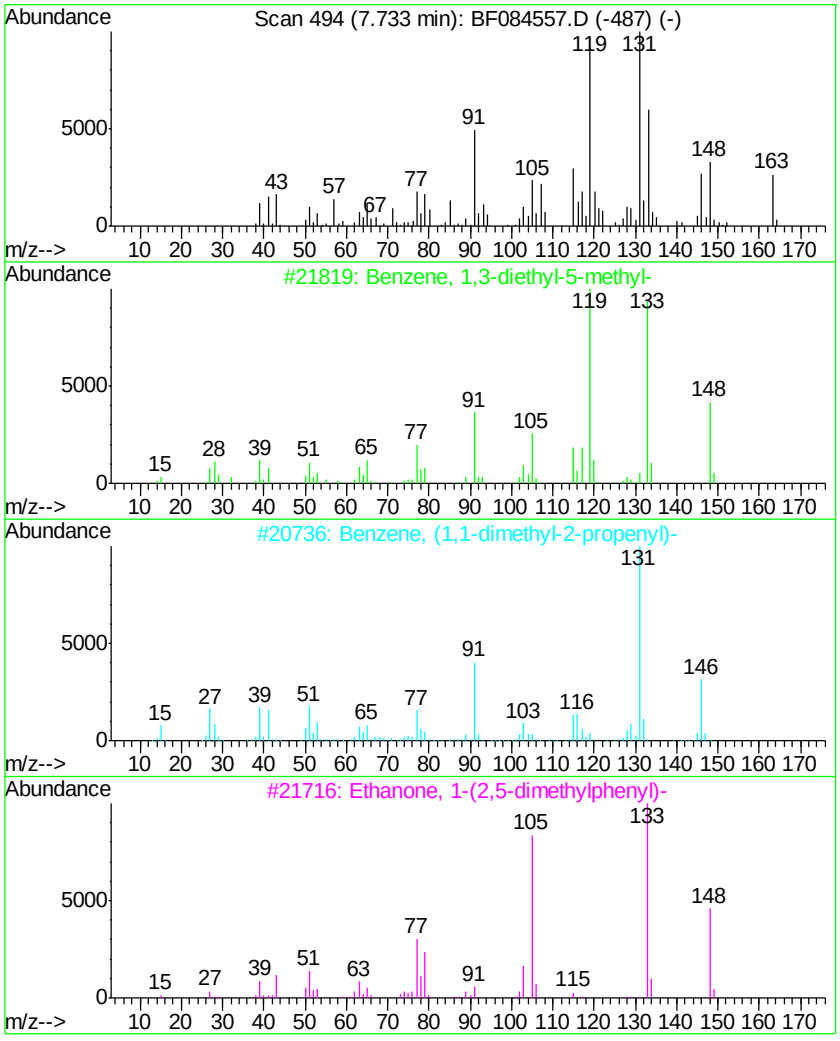
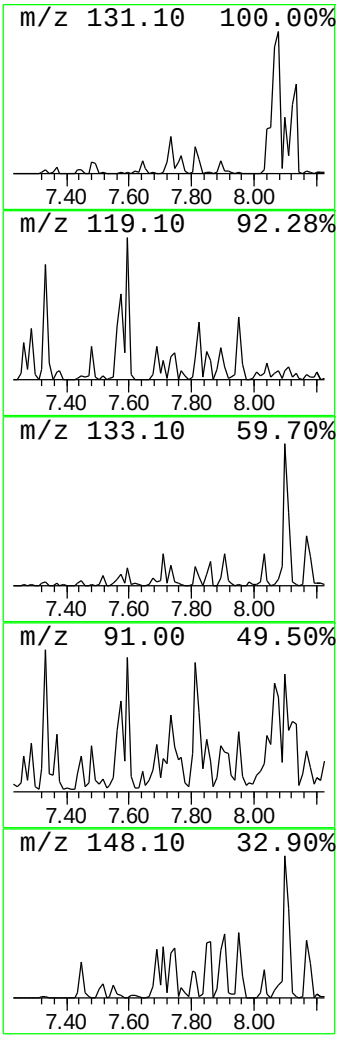
Peak Number 10 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.73 | 7.85 ng | 1258860 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 86 |
| 2 | Benzene, (1,1-dimethyl-2-propenyl)- | 146 | C11H14 | 018321-36-3 | 83 |
| 3 | Ethanone, 1-(2,5-dimethylphenyl)- | 148 | C10H12O | 002142-73-6 | 45 |
| 4 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 42 |
| 5 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 42 |



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Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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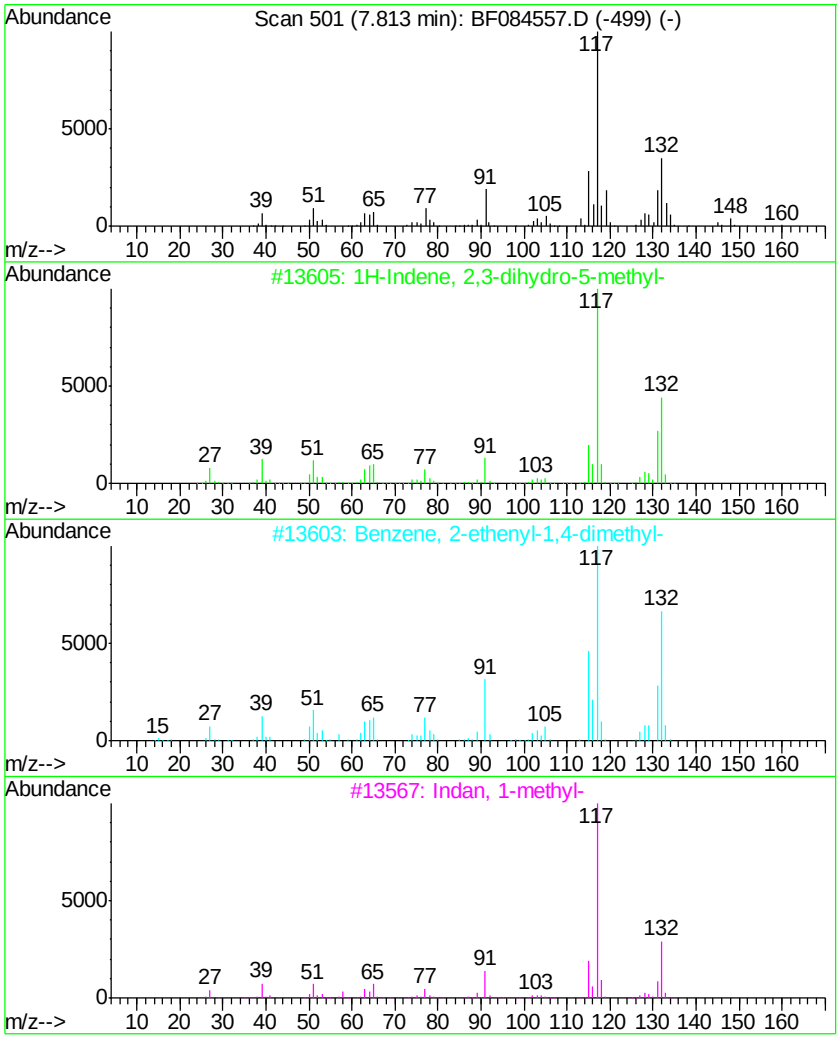
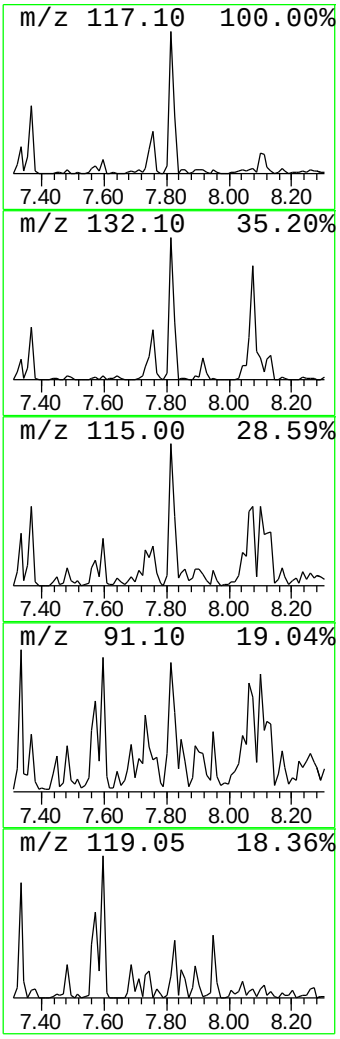
Peak Number 11 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.81 | 9.30 ng | 1491490 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 94 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 92 |
| 3 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 87 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 87 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |



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Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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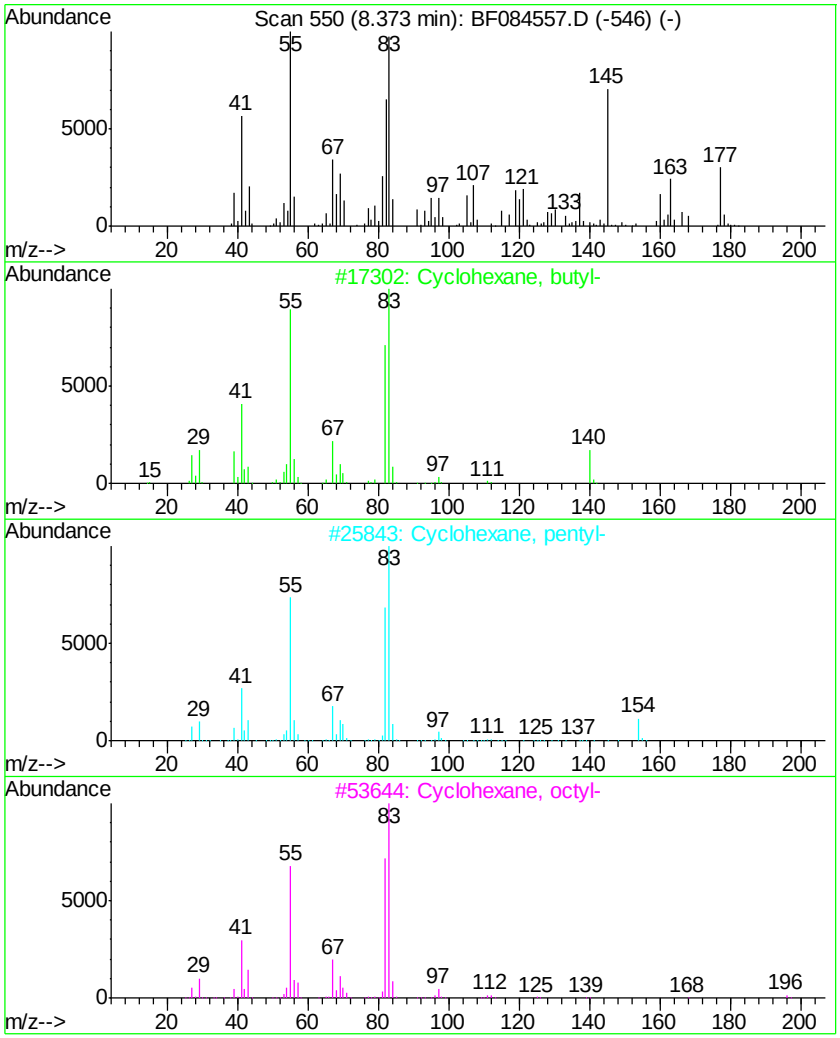
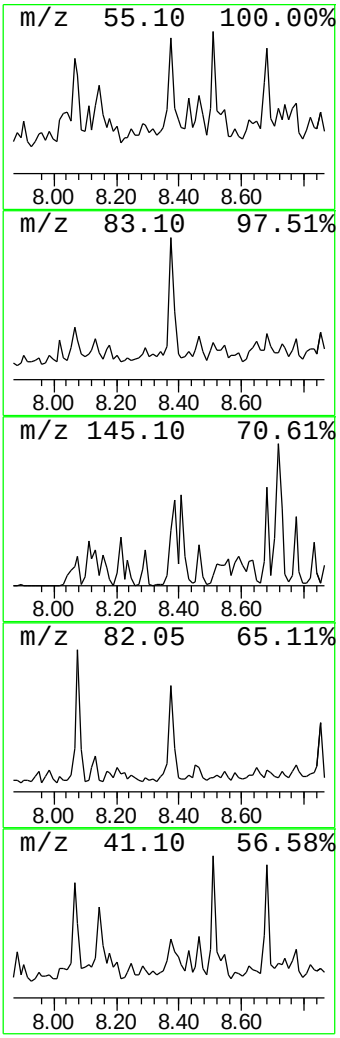
Peak Number 12 unknown8.37 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.37 | 8.79 ng | 1409670 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 35 |
| 2 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 35 |
| 3 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 35 |
| 4 | Heptylcyclohexane | 182 | C13H26 | 005617-41-4 | 35 |
| 5 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 35 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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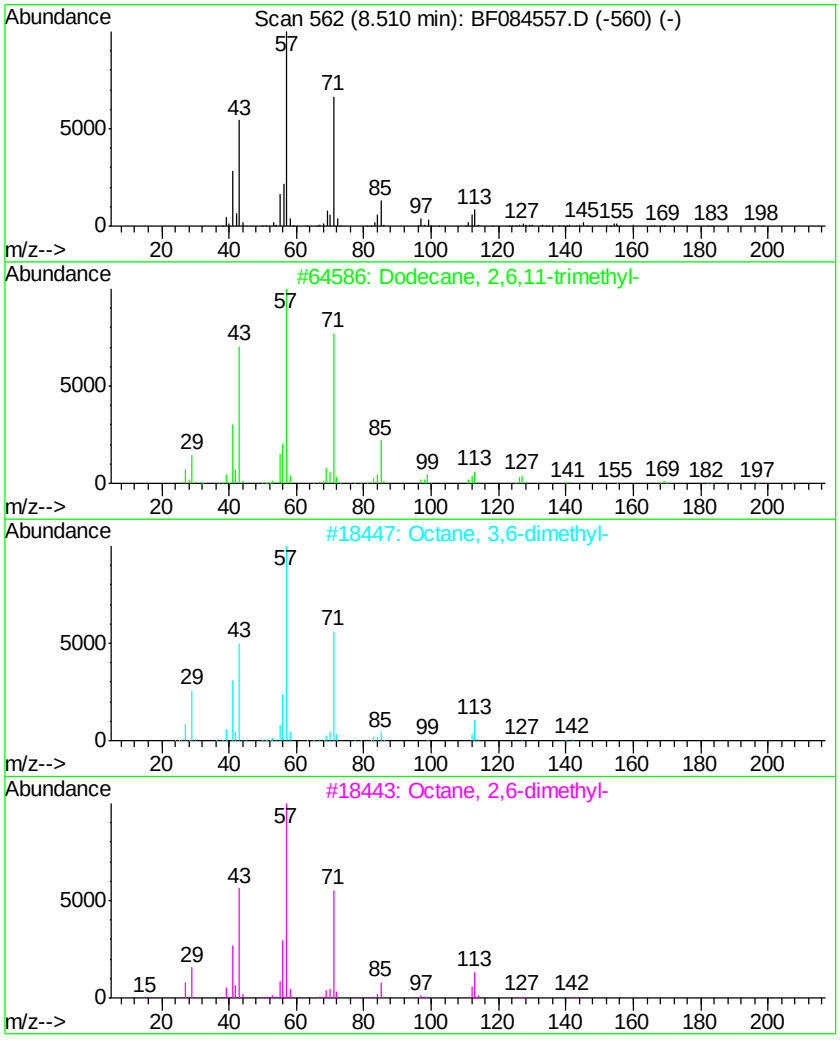
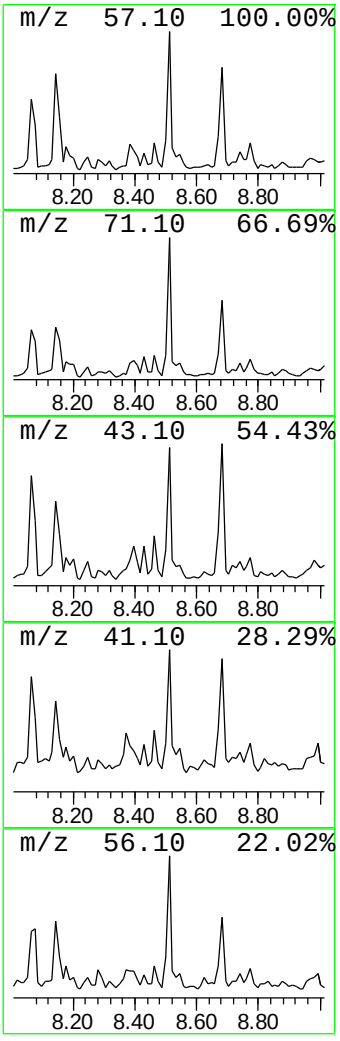
Peak Number 13 Dodecane, 2,6,11-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.51 | 7.49 ng | 1201320 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 78 |
| 2 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 64 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 64 |
| 4 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 64 |
| 5 | Butane, 2,2-dimethyl- | 86 | C6H14 | 000075-83-2 | 53 |



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Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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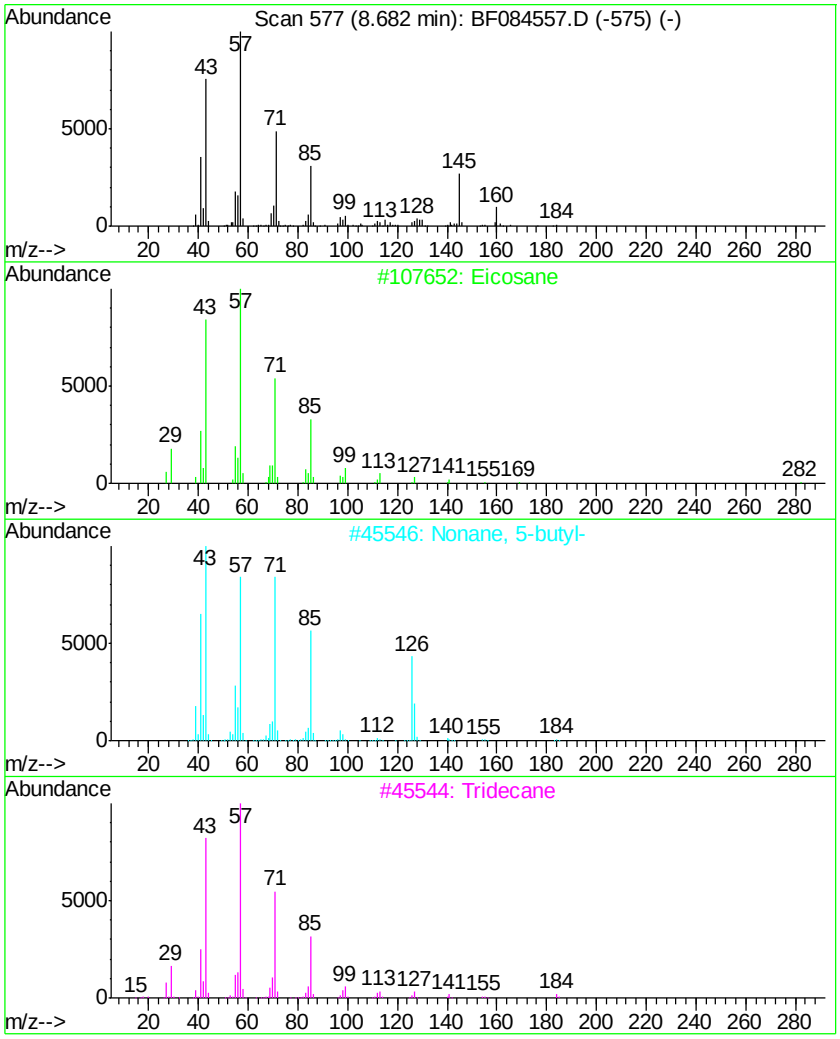
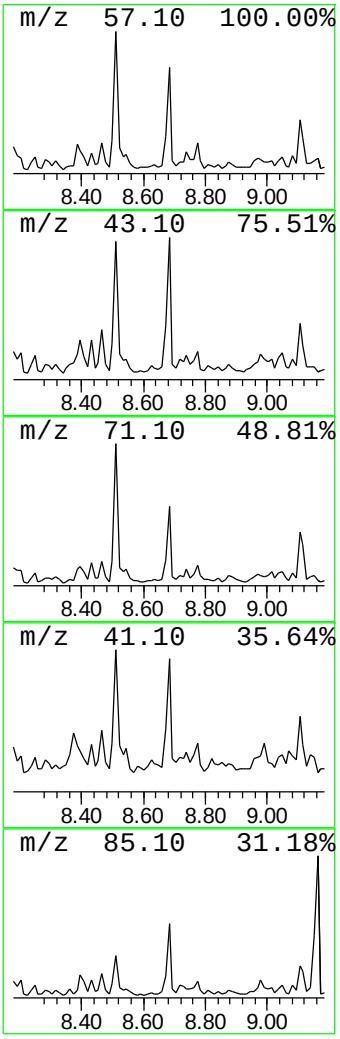
Peak Number 14 Eicosane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.68 | 7.07 ng | 1133620 | Naphthalene-d8 | 8.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 68 |
| 2 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 60 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 58 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 58 |
| 5 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 58 |



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Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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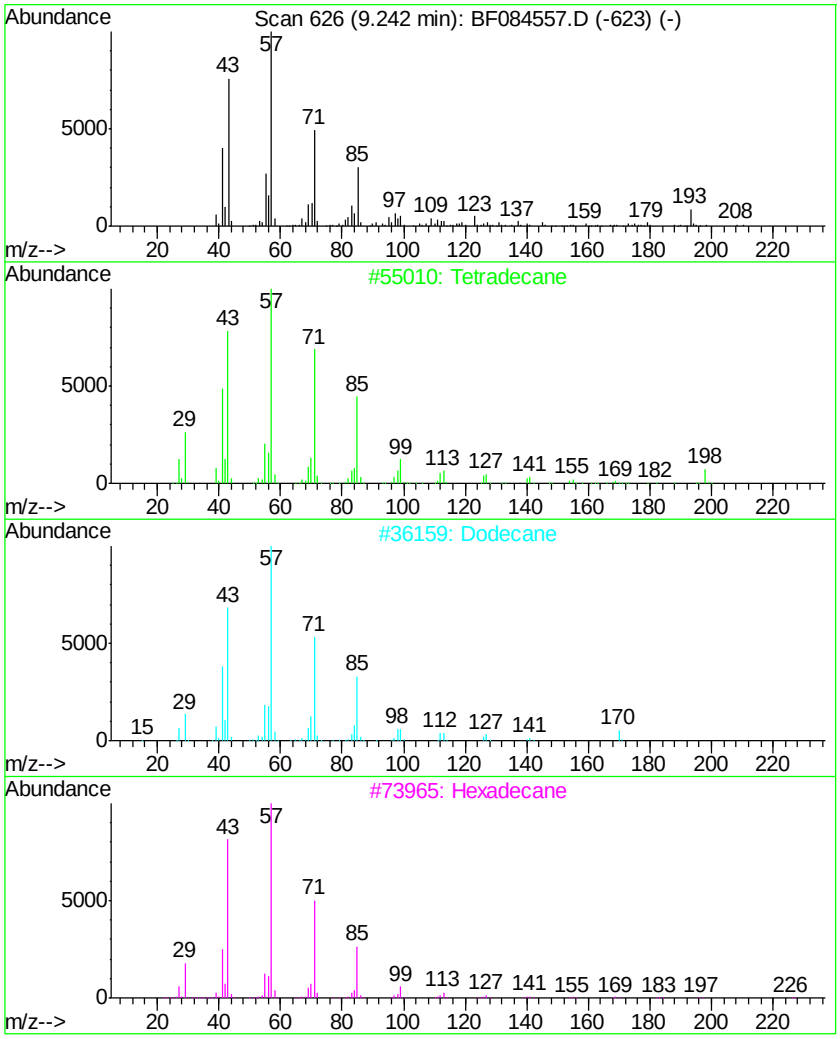
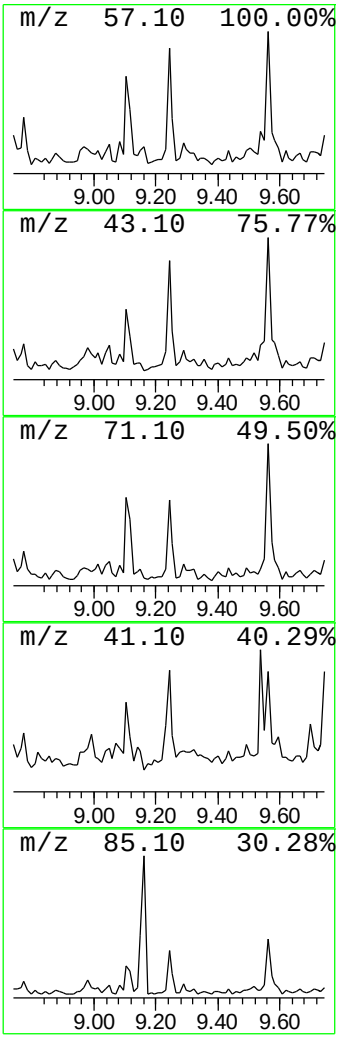
Peak Number 15 Tetradecane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.24 | 8.20 ng | 910245 | Acenaphthene-d10 | 9.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 93 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 72 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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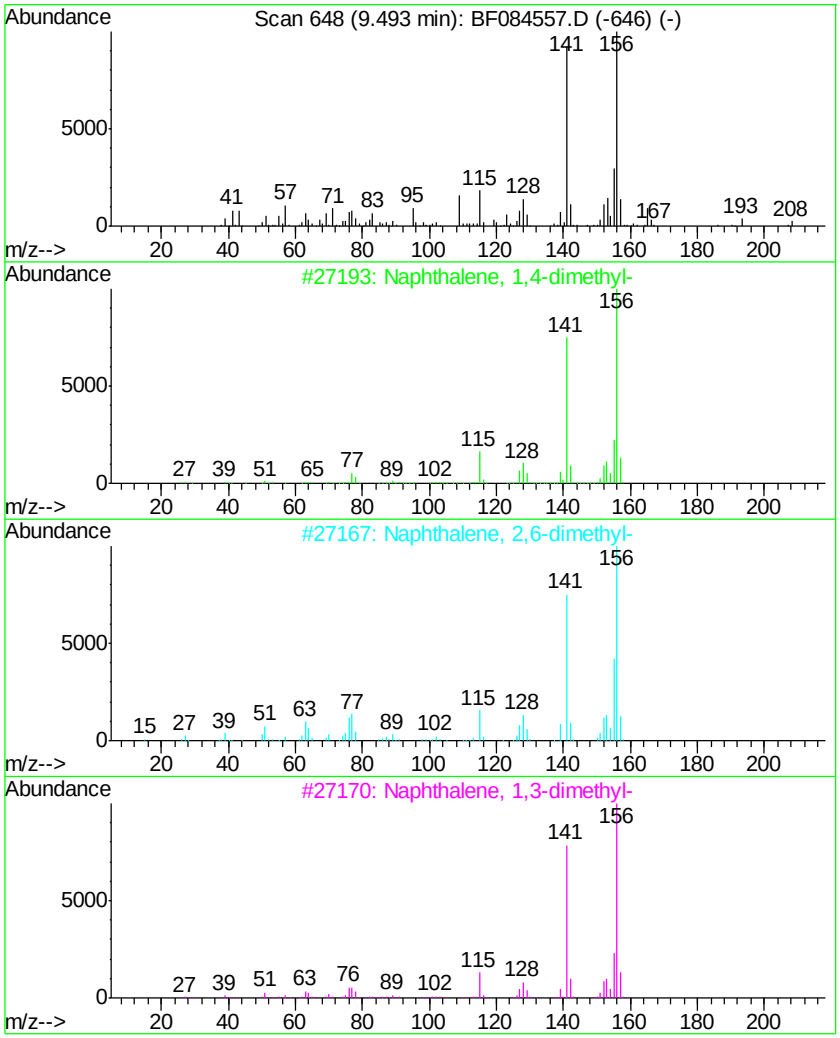
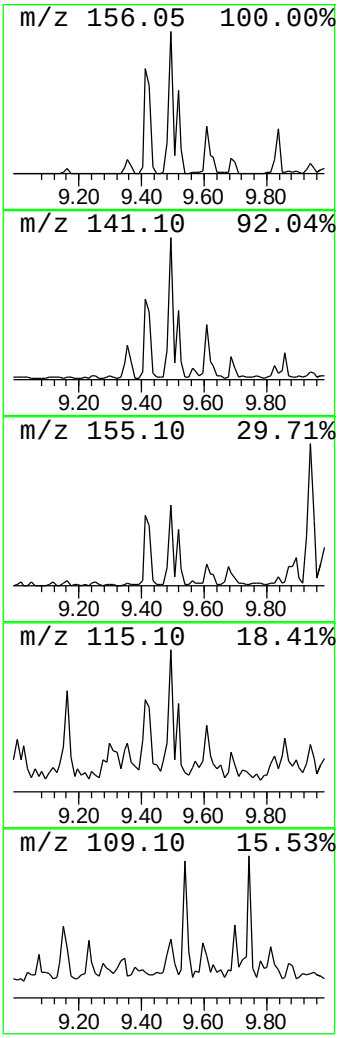
Peak Number 16 Naphthalene, 1,4-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.49 | 6.76 ng | 750729 | Acenaphthene-d10 | 9.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 95 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 95 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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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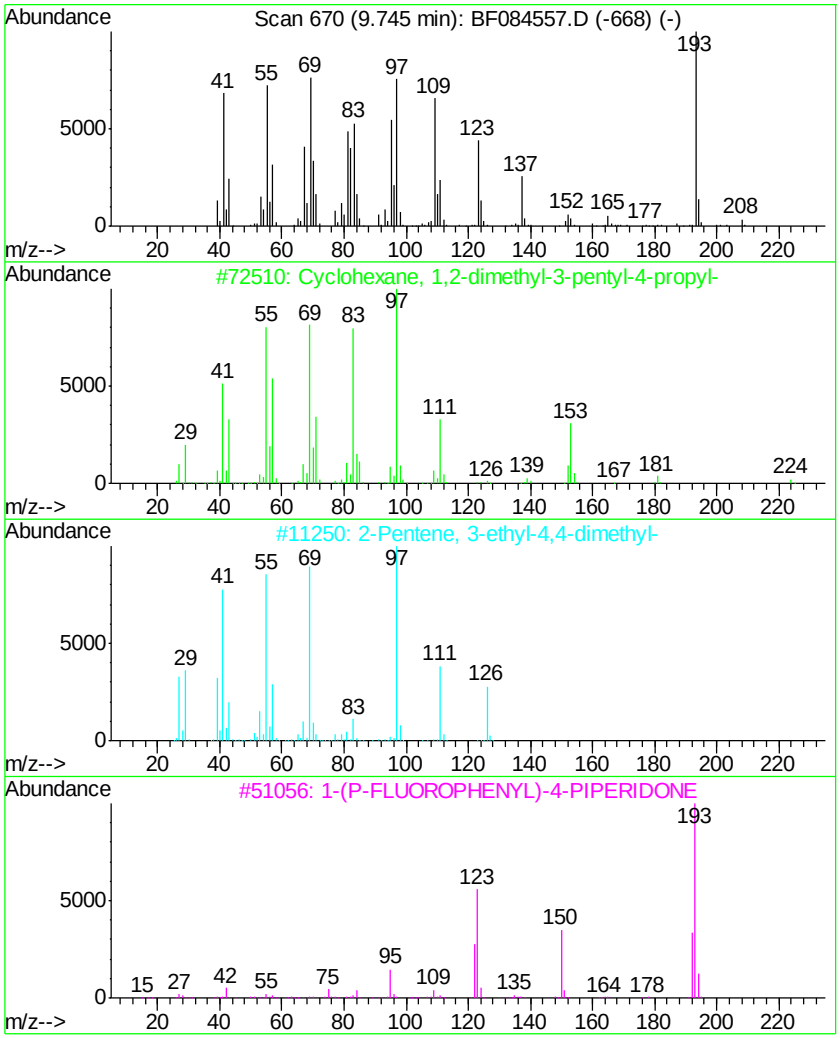
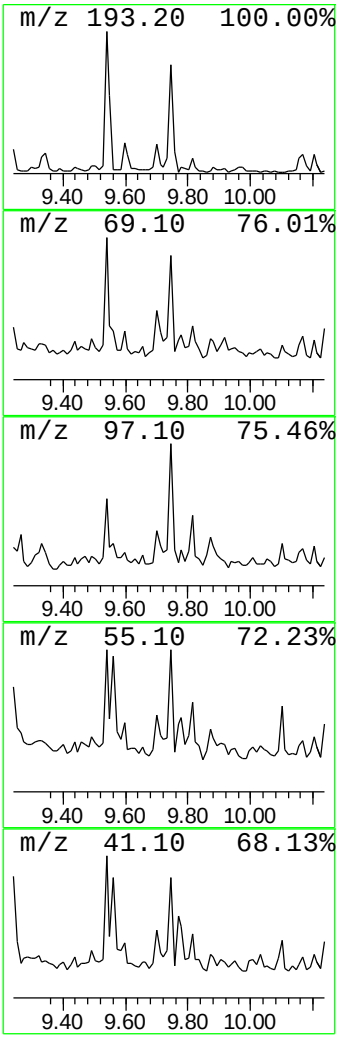
Peak Number 17 unknown9.74 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.74 | 5.63 ng | 624879 | Acenaphthene-d10 | 9.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-3-pent... | 224 | C16H32 | 062376-17-4 | 27 |
| 2 | 2-Pentene, 3-ethyl-4,4-dimethyl- | 126 | C9H18 | 053907-59-8 | 27 |
| 3 | 1-(P-FLUOROPHENYL)-4-PIPERIDONE | 193 | C11H12FNO | 1000238-56-7 | 25 |
| 4 | Cyclopentanecarboxylic acid, 4-t... | 310 | C20H38O2 | 1000280-58-9 | 22 |
| 5 | 1-Hexyne, 3-ethoxy-3,4-dimethyl- | 154 | C10H18O | 054244-91-6 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

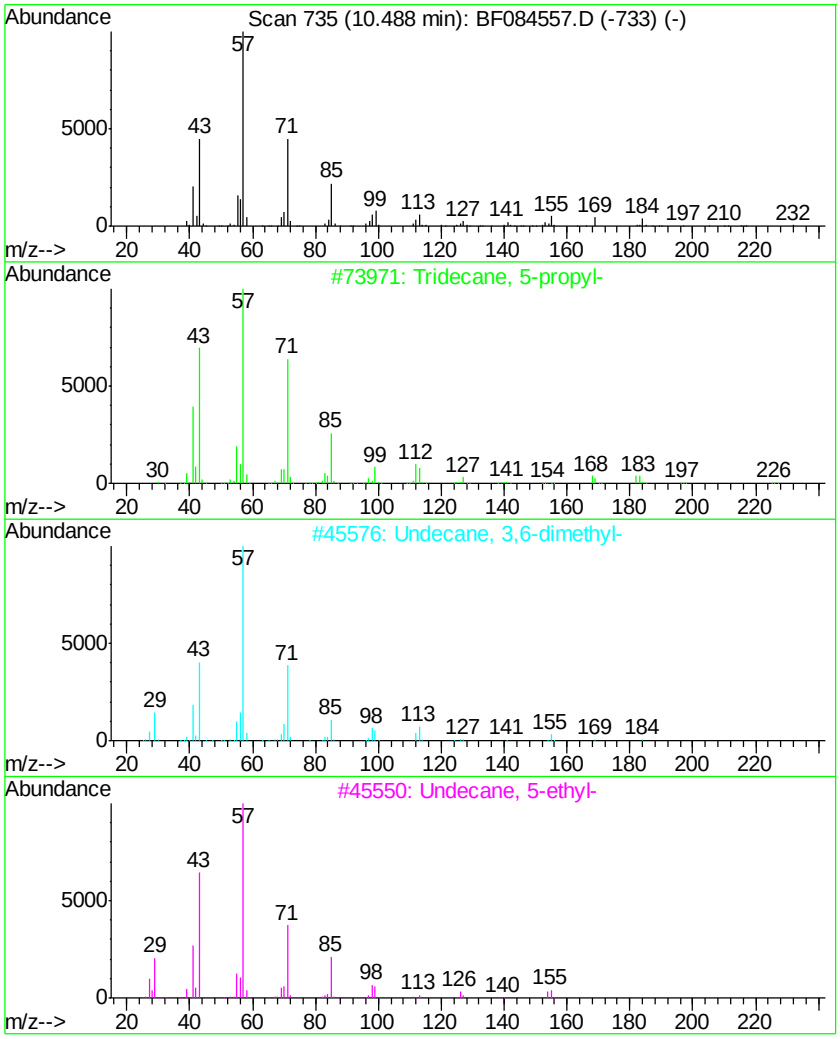
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

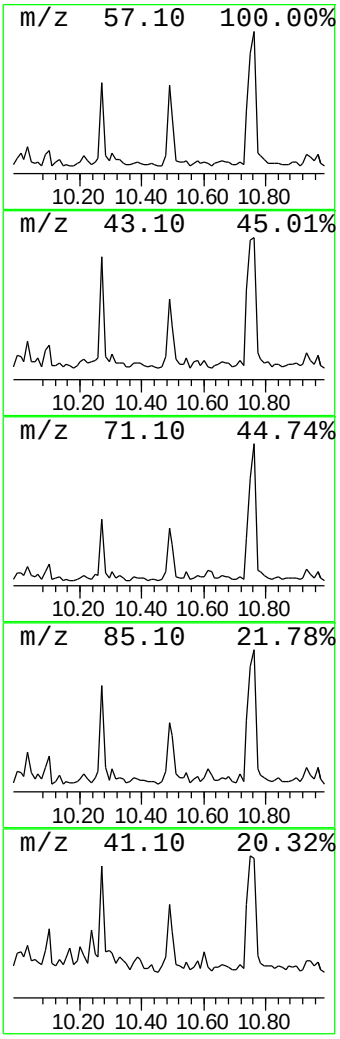
**********

Peak Number 18 Tridecane, 5-propyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.49 | 5.54 ng | 614733 | Acenaphthene-d10 | 9.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 80 |
| 2 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 72 |
| 3 | Undecane, 5-ethyl- | 184 | C13H28 | 017453-94-0 | 72 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 64 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 60 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

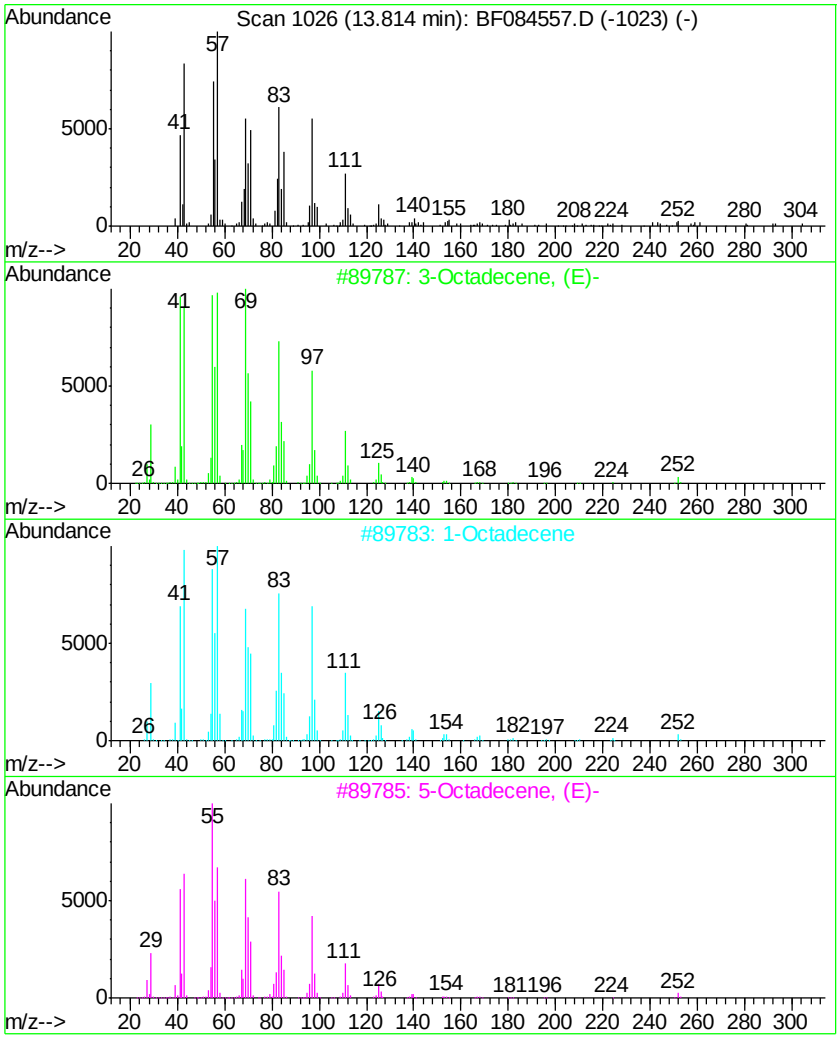
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

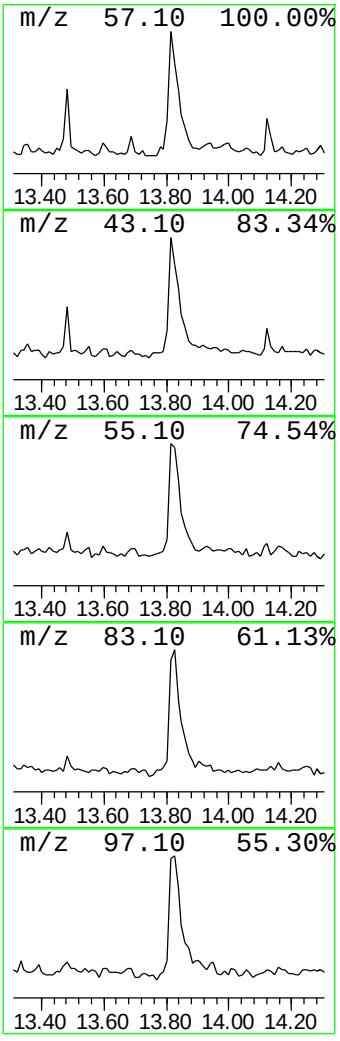
**********

Peak Number 20 3-Octadecene, (E)- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.81 | 5.29 ng | 416341 | Chrysene-d12 | 13.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Octadecene, (E)- | 252 | C18H36 | 007206-19-1 | 95 |
| 2 | 1-Octadecene | 252 | C18H36 | 000112-88-9 | 93 |
| 3 | 5-Octadecene, (E)- | 252 | C18H36 | 007206-21-5 | 92 |
| 4 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 92 |
| 5 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011916\
Data File : BF084557.D
Acq On : 19 Jan 2016 17:34
Operator : SJ/UM
Sample : H1169-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SP-004(0-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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... | 4.97 | 38.4 | ng | 3369000 | 1 | 6.80 | 1754490 | 20.0 |
| Cyclohexane, 1-et... | 5.80 | 4.9 | ng | 427947 | 1 | 6.80 | 1754490 | 20.0 |
| unknown6.03 | 6.03 | 6.3 | ng | 554088 | 1 | 6.80 | 1754490 | 20.0 |
| unknown6.57 | 6.57 | 65.3 | ng | 5726430 | 1 | 6.80 | 1754490 | 20.0 |
| Decane | 6.64 | 7.1 | ng | 623796 | 1 | 6.80 | 1754490 | 20.0 |
| unknown7.07 | 7.07 | 7.2 | ng | 633320 | 1 | 6.80 | 1754490 | 20.0 |
| Benzene, 2-ethyl-... | 7.12 | 5.3 | ng | 464928 | 1 | 6.80 | 1754490 | 20.0 |
| Benzene, 1,2,4,5-... | 7.57 | 5.5 | ng | 890380 | 2 | 8.08 | 3206810 | 20.0 |
| Benzene, 1,3-diet... | 7.73 | 7.8 | ng | 1258860 | 2 | 8.08 | 3206810 | 20.0 |
| 1H-Indene, 2,3-di... | 7.81 | 9.3 | ng | 1491490 | 2 | 8.08 | 3206810 | 20.0 |
| unknown8.37 | 8.37 | 8.8 | ng | 1409670 | 2 | 8.08 | 3206810 | 20.0 |
| Dodecane, 2,6,11-... | 8.51 | 7.5 | ng | 1201320 | 2 | 8.08 | 3206810 | 20.0 |
| Eicosane | 8.68 | 7.1 | ng | 1133620 | 2 | 8.08 | 3206810 | 20.0 |
| Tetradecane | 9.24 | 8.2 | ng | 910245 | 3 | 9.84 | 2219710 | 20.0 |
| Naphthalene, 1,4-... | 9.49 | 6.8 | ng | 750729 | 3 | 9.84 | 2219710 | 20.0 |
| unknown9.74 | 9.74 | 5.6 | ng | 624879 | 3 | 9.84 | 2219710 | 20.0 |
| Tridecane, 5-propyl- | 10.49 | 5.5 | ng | 614733 | 3 | 9.84 | 2219710 | 20.0 |
| 3-Octadecene, (E)- | 13.81 | 5.3 | ng | 416341 | 5 | 13.95 | 1575540 | 20.0 |