LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

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-BF012916.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 | 4.178 | 181 | 183 | 188 | rBV | 196028 | 256947 | 6.86% | 0.438% |
| 2 | 4.887 | 241 | 245 | 247 | rBV | 2229791 | 3321953 | 88.69% | 5.660% |
| 3 | 5.321 | 281 | 283 | 285 | rBV | 3001376 | 2928682 | 78.19% | 4.990% |
| 4 | 5.653 | 310 | 312 | 316 | rBV | 107518 | 152107 | 4.06% | 0.259% |
| 5 | 5.721 | 316 | 318 | 321 | rVV | 173056 | 160278 | 4.28% | 0.273% |
| 6 | 5.870 | 329 | 331 | 333 | rBV | 50193 | 69641 | 1.86% | 0.119% |
| 7 | 5.984 | 339 | 341 | 344 | rBV | 2665482 | 2481465 | 66.25% | 4.228% |
| 8 | 6.156 | 352 | 356 | 358 | rBV | 402807 | 425669 | 11.36% | 0.725% |
| 9 | 6.373 | 372 | 375 | 377 | rBV | 3652456 | 3492086 | 93.23% | 5.949% |
| 10 | 6.487 | 383 | 385 | 388 | rBV | 2377308 | 3207081 | 85.62% | 5.464% |
| 11 | 6.727 | 403 | 406 | 408 | rBV | 950919 | 1019952 | 27.23% | 1.738% |
| 12 | 6.807 | 410 | 413 | 414 | rBV2 | 62178 | 62446 | 1.67% | 0.106% |
| 13 | 6.841 | 414 | 416 | 417 | rVV | 388260 | 319597 | 8.53% | 0.544% |
| 14 | 6.876 | 417 | 419 | 421 | rVB | 2469412 | 2569732 | 68.60% | 4.378% |
| 15 | 7.287 | 453 | 455 | 458 | rBV | 1933392 | 2063270 | 55.08% | 3.515% |
| 16 | 7.721 | 491 | 493 | 495 | rBV | 243347 | 262159 | 7.00% | 0.447% |
| 17 | 7.756 | 495 | 496 | 500 | rVB | 58912 | 53831 | 1.44% | 0.092% |
| 18 | 7.916 | 509 | 510 | 512 | rBV2 | 55608 | 76816 | 2.05% | 0.131% |
| 19 | 8.007 | 516 | 518 | 520 | rBV | 1447584 | 1314908 | 35.10% | 2.240% |
| 20 | 8.042 | 520 | 521 | 523 | rVB | 317874 | 223585 | 5.97% | 0.381% |
| 21 | 8.144 | 528 | 530 | 531 | rBV | 29525 | 44027 | 1.18% | 0.075% |
| 22 | 8.167 | 531 | 532 | 535 | rVB2 | 59432 | 62837 | 1.68% | 0.107% |
| 23 | 8.247 | 537 | 539 | 542 | rBV2 | 40636 | 42762 | 1.14% | 0.073% |
| 24 | 8.442 | 554 | 556 | 561 | rBV | 46479 | 57644 | 1.54% | 0.098% |
| 25 | 8.613 | 569 | 571 | 573 | rBV2 | 73801 | 90804 | 2.42% | 0.155% |
| 26 | 8.716 | 577 | 580 | 582 | rBV2 | 33183 | 74507 | 1.99% | 0.127% |
| 27 | 8.899 | 593 | 596 | 597 | rBV2 | 30206 | 46731 | 1.25% | 0.080% |
| 28 | 8.979 | 601 | 603 | 604 | rBV | 32532 | 37476 | 1.00% | 0.064% |
| 29 | 9.047 | 606 | 609 | 610 | rVB | 120241 | 151292 | 4.04% | 0.258% |
| 30 | 9.093 | 610 | 613 | 615 | rBV | 3721370 | 3745711 | 100.00% | 6.382% |
| 31 | 9.173 | 615 | 620 | 622 | rBV2 | 225170 | 373754 | 9.98% | 0.637% |
| 32 | 9.219 | 622 | 624 | 628 | rBV4 | 27565 | 60233 | 1.61% | 0.103% |
| 33 | 9.367 | 632 | 637 | 638 | rBV2 | 50371 | 127553 | 3.41% | 0.217% |
| 34 | 9.425 | 640 | 642 | 643 | rBV | 77378 | 82778 | 2.21% | 0.141% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

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-BF012916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.493 | 645 | 648 | 652 | rVB3 | 404020 | 704813 | 18.82% | 1.201% |
| 36 | 9.630 | 657 | 660 | 661 | rBV2 | 62975 | 107230 | 2.86% | 0.183% |
| 37 | 9.676 | 662 | 664 | 665 | rVB2 | 153319 | 144375 | 3.85% | 0.246% |
| 38 | 9.710 | 665 | 667 | 668 | rBV | 350885 | 408944 | 10.92% | 0.697% |
| 39 | 9.756 | 668 | 671 | 673 | rVV | 992197 | 1298350 | 34.66% | 2.212% |
| 40 | 9.790 | 673 | 674 | 678 | rBV3 | 63124 | 158526 | 4.23% | 0.270% |
| 41 | 9.939 | 683 | 687 | 688 | rBV4 | 94375 | 216509 | 5.78% | 0.369% |
| 42 | 9.962 | 688 | 689 | 691 | rVB | 244545 | 201624 | 5.38% | 0.344% |
| 43 | 10.030 | 693 | 695 | 697 | rVB | 196174 | 178871 | 4.78% | 0.305% |
| 44 | 10.065 | 697 | 698 | 700 | rBV2 | 65276 | 113692 | 3.04% | 0.194% |
| 45 | 10.167 | 705 | 707 | 708 | rBV | 96104 | 93440 | 2.49% | 0.159% |
| 46 | 10.202 | 708 | 710 | 712 | rBV | 622308 | 536742 | 14.33% | 0.914% |
| 47 | 10.305 | 717 | 719 | 722 | rBV2 | 114391 | 169730 | 4.53% | 0.289% |
| 48 | 10.419 | 727 | 729 | 732 | rVV | 445818 | 588276 | 15.71% | 1.002% |
| 49 | 10.476 | 732 | 734 | 735 | rVB2 | 130926 | 170282 | 4.55% | 0.290% |
| 50 | 10.510 | 735 | 737 | 738 | rBV | 115652 | 130399 | 3.48% | 0.222% |
| 51 | 10.545 | 738 | 740 | 742 | rBV2 | 1173884 | 1116026 | 29.79% | 1.901% |
| 52 | 10.590 | 742 | 744 | 747 | rBV3 | 53963 | 115603 | 3.09% | 0.197% |
| 53 | 10.693 | 750 | 753 | 755 | rBV | 971352 | 1625993 | 43.41% | 2.770% |
| 54 | 10.876 | 767 | 769 | 773 | rVB3 | 108334 | 294202 | 7.85% | 0.501% |
| 55 | 11.002 | 778 | 780 | 781 | rBV2 | 69527 | 65405 | 1.75% | 0.111% |
| 56 | 11.048 | 782 | 784 | 786 | rVB | 416960 | 390711 | 10.43% | 0.666% |
| 57 | 11.093 | 786 | 788 | 789 | rBV | 78391 | 69717 | 1.86% | 0.119% |
| 58 | 11.128 | 789 | 791 | 792 | rBV | 431838 | 547621 | 14.62% | 0.933% |
| 59 | 11.242 | 798 | 801 | 802 | rBV | 1074464 | 1152526 | 30.77% | 1.964% |
| 60 | 11.265 | 802 | 803 | 805 | rVV | 2265562 | 1653441 | 44.14% | 2.817% |
| 61 | 11.310 | 805 | 807 | 809 | rVB2 | 183579 | 211480 | 5.65% | 0.360% |
| 62 | 11.470 | 819 | 821 | 822 | rBV2 | 69661 | 92306 | 2.46% | 0.157% |
| 63 | 11.505 | 822 | 824 | 825 | rVV | 140465 | 133716 | 3.57% | 0.228% |
| 64 | 11.550 | 825 | 828 | 829 | rVV | 419509 | 395175 | 10.55% | 0.673% |
| 65 | 11.710 | 839 | 842 | 843 | rBV2 | 79904 | 166234 | 4.44% | 0.283% |
| 66 | 11.745 | 843 | 845 | 846 | rVV | 286223 | 360571 | 9.63% | 0.614% |
| 67 | 11.768 | 846 | 847 | 850 | rVV | 403787 | 479023 | 12.79% | 0.816% |
| 68 | 11.848 | 852 | 854 | 859 | rVB2 | 304338 | 573740 | 15.32% | 0.977% |
| 69 | 11.928 | 859 | 861 | 862 | rBV2 | 84693 | 110059 | 2.94% | 0.188% |
| 70 | 11.950 | 862 | 863 | 868 | rVV2 | 322231 | 444759 | 11.87% | 0.758% |
| 71 | 12.042 | 868 | 871 | 876 | rVB3 | 140870 | 319156 | 8.52% | 0.544% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

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-BF012916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.111 | 876 | 877 | 880 | rBV3 | 84183 | 115972 | 3.10% | 0.198% |
| 73 | 12.293 | 891 | 893 | 896 | rBV | 187590 | 342922 | 9.16% | 0.584% |
| 74 | 12.339 | 896 | 897 | 899 | rVB | 231932 | 236315 | 6.31% | 0.403% |
| 75 | 12.453 | 904 | 907 | 908 | rVV | 629325 | 886401 | 23.66% | 1.510% |
| 76 | 12.488 | 908 | 910 | 914 | rVB5 | 57555 | 146984 | 3.92% | 0.250% |
| 77 | 12.671 | 924 | 926 | 928 | rBV | 709536 | 953343 | 25.45% | 1.624% |
| 78 | 12.716 | 928 | 930 | 934 | rVB3 | 148559 | 235023 | 6.27% | 0.400% |
| 79 | 12.831 | 938 | 940 | 942 | rVB | 2138009 | 2373061 | 63.35% | 4.043% |
| 80 | 12.945 | 947 | 950 | 952 | rBV | 673343 | 875864 | 23.38% | 1.492% |
| 81 | 13.002 | 952 | 955 | 959 | rVB3 | 132818 | 221055 | 5.90% | 0.377% |
| 82 | 13.071 | 959 | 961 | 962 | rBV2 | 138073 | 128462 | 3.43% | 0.219% |
| 83 | 13.105 | 962 | 964 | 965 | rBV | 142908 | 147489 | 3.94% | 0.251% |
| 84 | 13.196 | 970 | 972 | 974 | rBV | 661303 | 775871 | 20.71% | 1.322% |
| 85 | 13.333 | 982 | 984 | 986 | rVB | 180253 | 198800 | 5.31% | 0.339% |
| 86 | 13.734 | 1017 | 1019 | 1023 | rVB2 | 233509 | 417445 | 11.14% | 0.711% |
| 87 | 13.871 | 1028 | 1031 | 1036 | rVV2 | 1126130 | 1592645 | 42.52% | 2.713% |
| 88 | 14.636 | 1096 | 1098 | 1103 | rBV3 | 168258 | 353461 | 9.44% | 0.602% |
| 89 | 14.716 | 1103 | 1105 | 1107 | rVV | 198960 | 259567 | 6.93% | 0.442% |
| 90 | 14.774 | 1108 | 1110 | 1112 | rVV | 181203 | 250988 | 6.70% | 0.428% |
| 91 | 14.876 | 1116 | 1119 | 1123 | rVB | 287229 | 556465 | 14.86% | 0.948% |
| 92 | 15.139 | 1140 | 1142 | 1145 | rVB | 168311 | 265478 | 7.09% | 0.452% |
| 93 | 15.197 | 1145 | 1147 | 1150 | rVB | 228836 | 294128 | 7.85% | 0.501% |
| 94 | 15.254 | 1150 | 1152 | 1155 | rBV | 617293 | 967568 | 25.83% | 1.648% |
| 95 | 16.568 | 1264 | 1267 | 1271 | rVB2 | 106388 | 216594 | 5.78% | 0.369% |
| 96 | 16.957 | 1298 | 1301 | 1304 | rBV | 104596 | 198841 | 5.31% | 0.339% |
| 97 | 17.094 | 1309 | 1313 | 1318 | rBV2 | 180359 | 502372 | 13.41% | 0.856% |
| 98 | 17.711 | 1364 | 1367 | 1371 | rVB | 82033 | 183087 | 4.89% | 0.312% |

Sum of corrected areas: 58695782

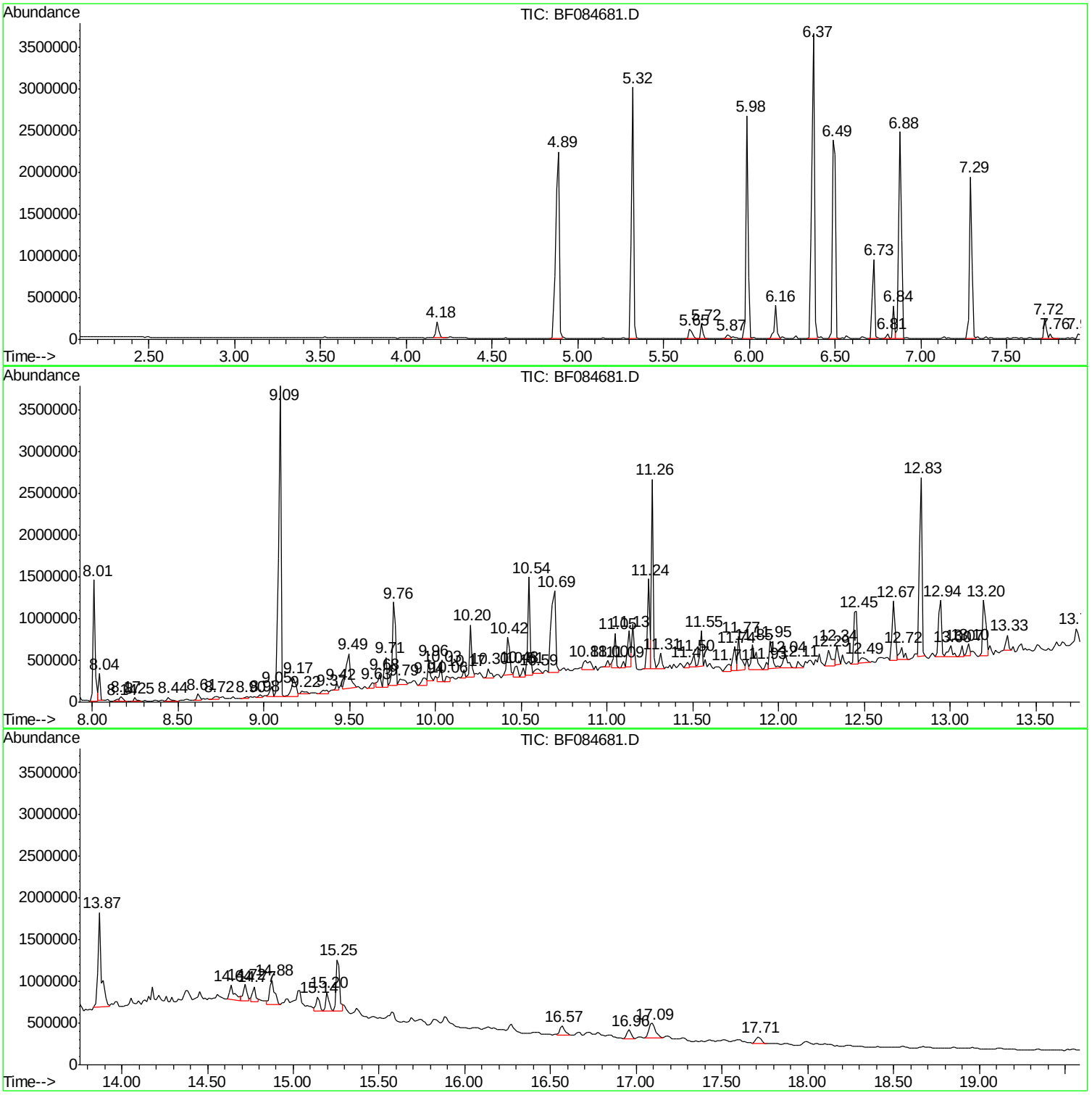
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

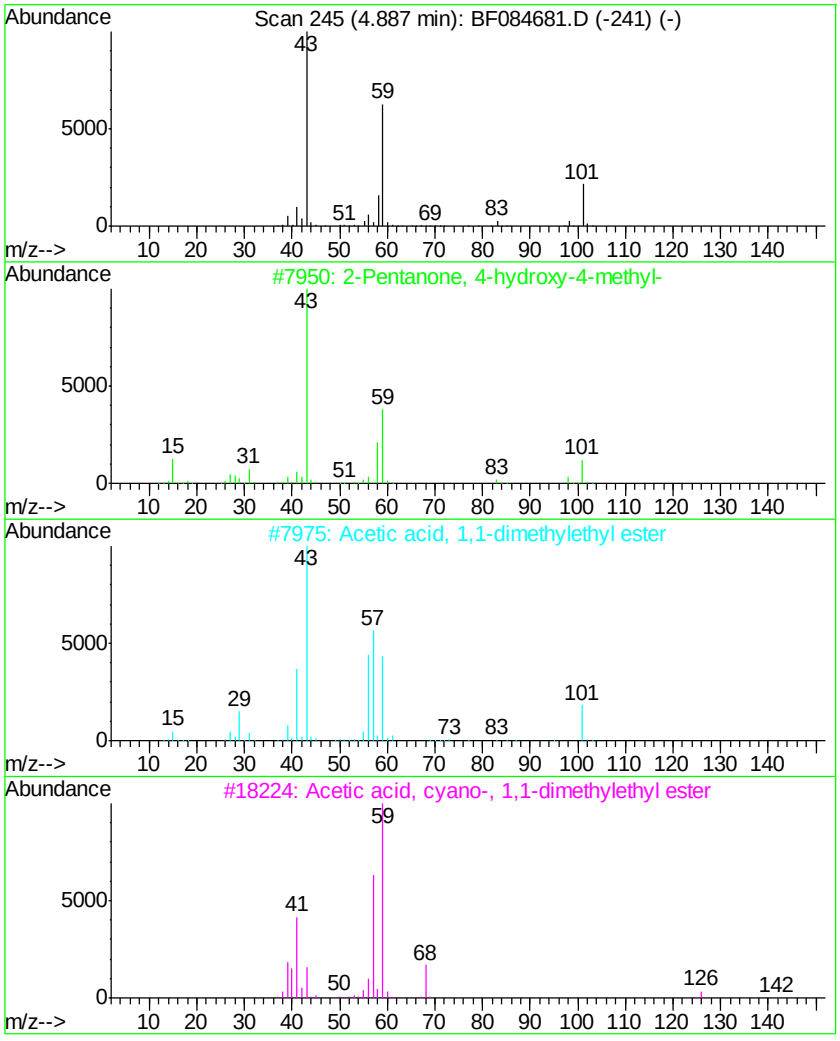
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

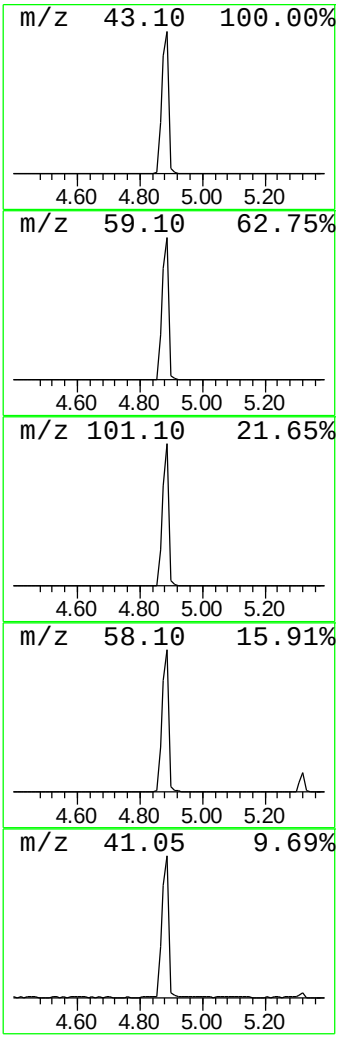
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.89 | 65.14 ng | 3321950 | 1,4-Dichlorobenzene-d4 | 6.73 |

| 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 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

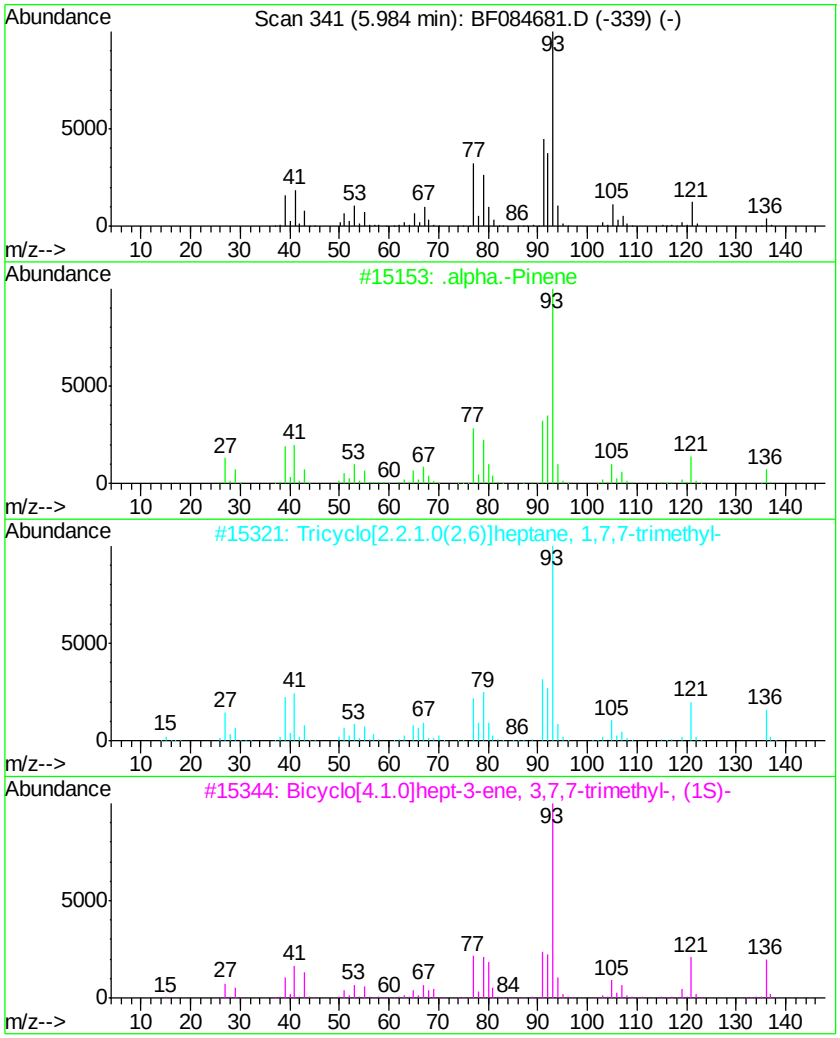
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

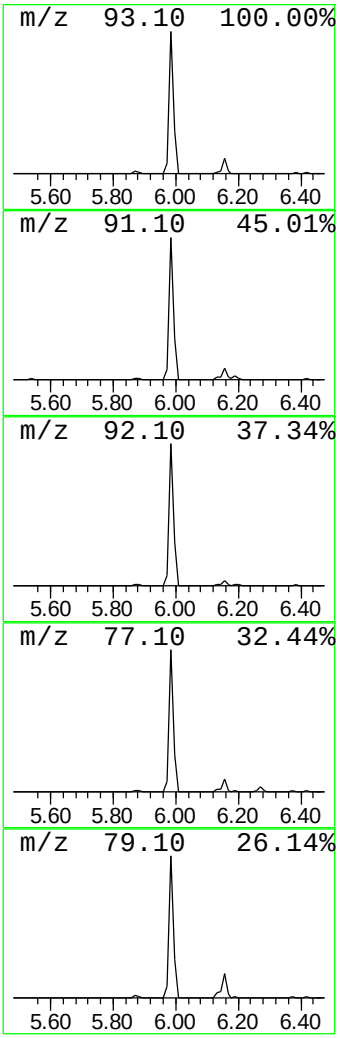
**********

Peak Number 2 .alpha.-Pinene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.98 | 48.66 ng | 2481470 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 94 |
| 2 | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16 | 000508-32-7 | 91 |
| 3 | Bicyclo[4.1.0]hept-3-ene, 3,7,7-... | 136 | C10H16 | 000498-15-7 | 91 |
| 4 | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16 | 004889-83-2 | 91 |
| 5 | 3-Carene | 136 | C10H16 | 013466-78-9 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

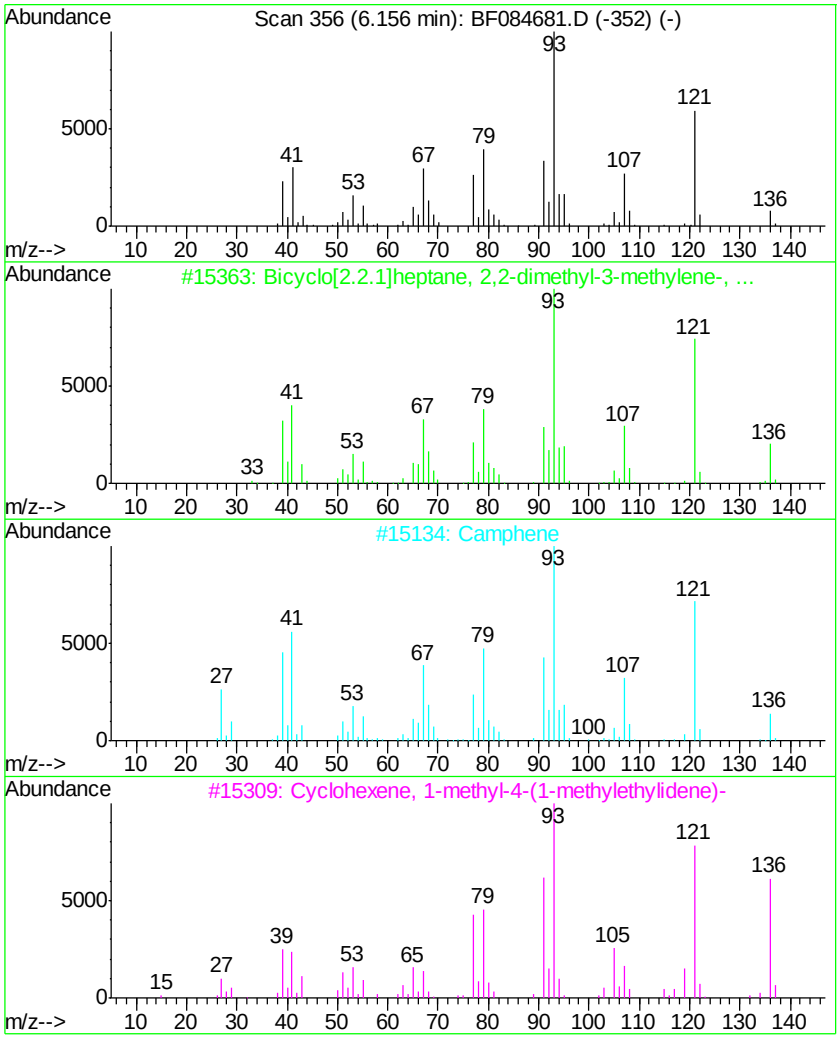
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

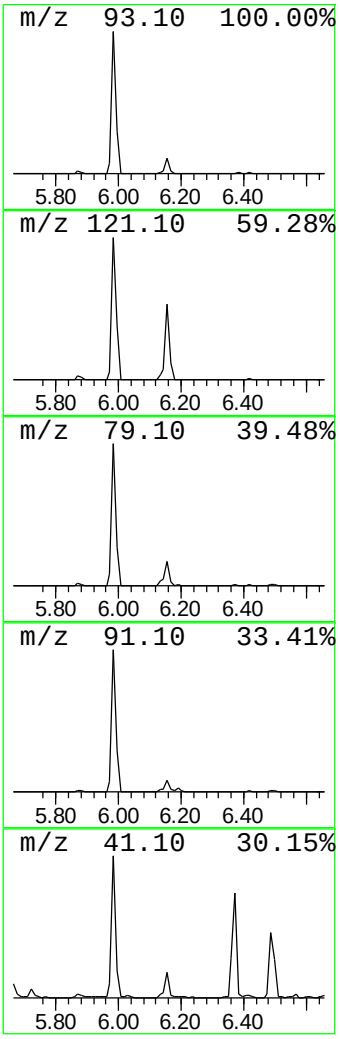
**********

Peak Number 3 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.16 | 8.35 ng | 425669 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16 | 005794-04-7 | 94 |
| 2 | Camphene | 136 | C10H16 | 000079-92-5 | 94 |
| 3 | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16 | 000586-62-9 | 74 |
| 4 | (+)-4-Carene | 136 | C10H16 | 029050-33-7 | 74 |
| 5 | .beta.-Pinene | 136 | C10H16 | 000127-91-3 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

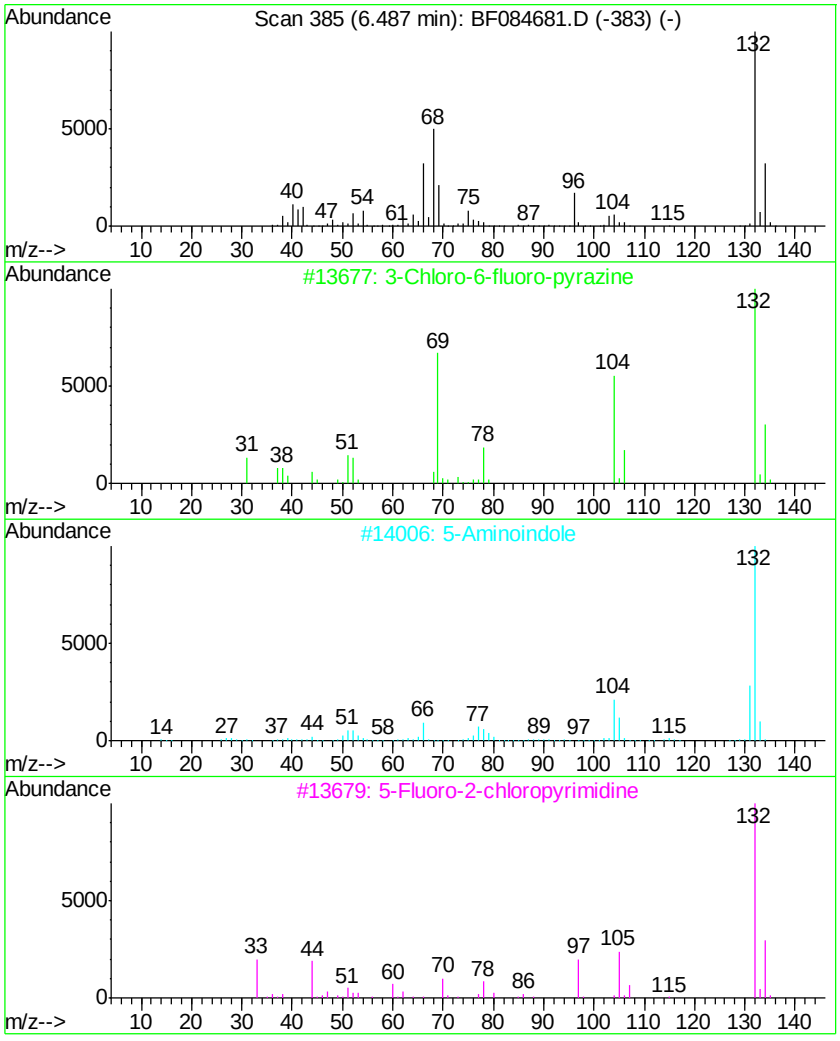
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

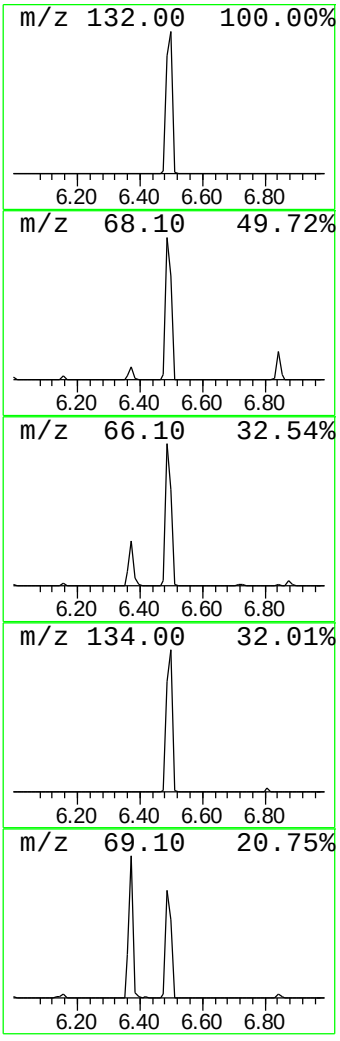
**********

Peak Number 4 unknown6.49 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 62.89 ng | 3207080 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 27 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 5 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

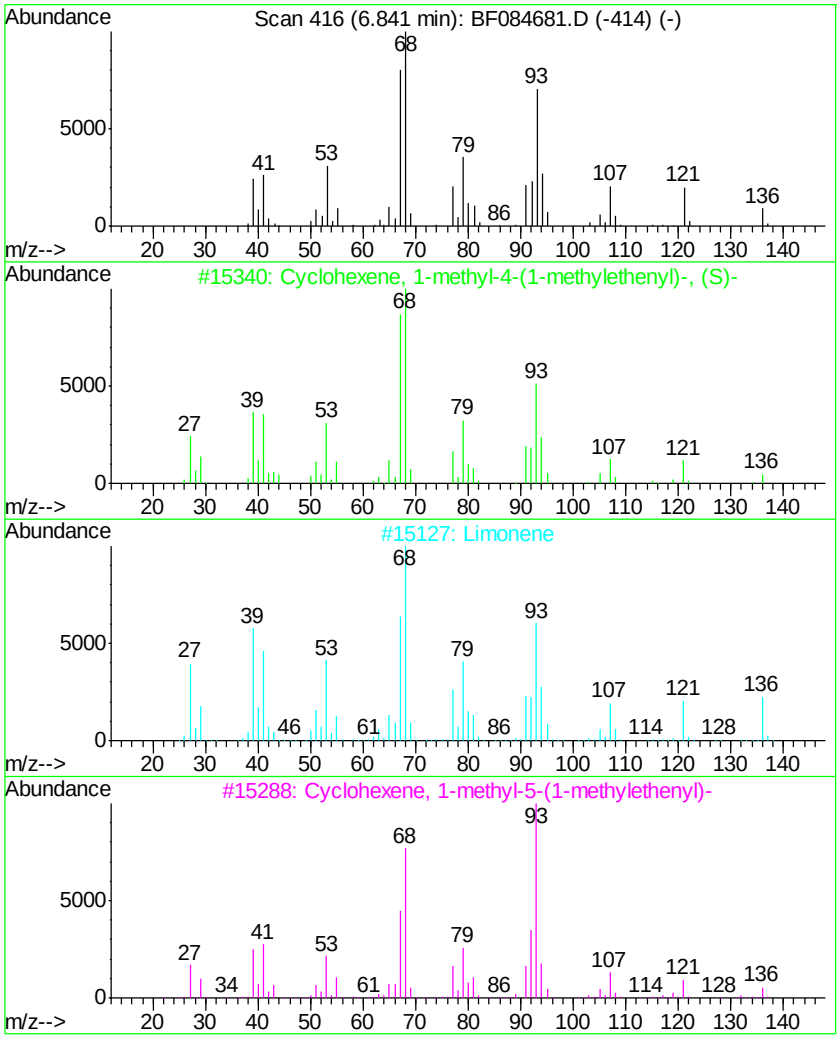
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

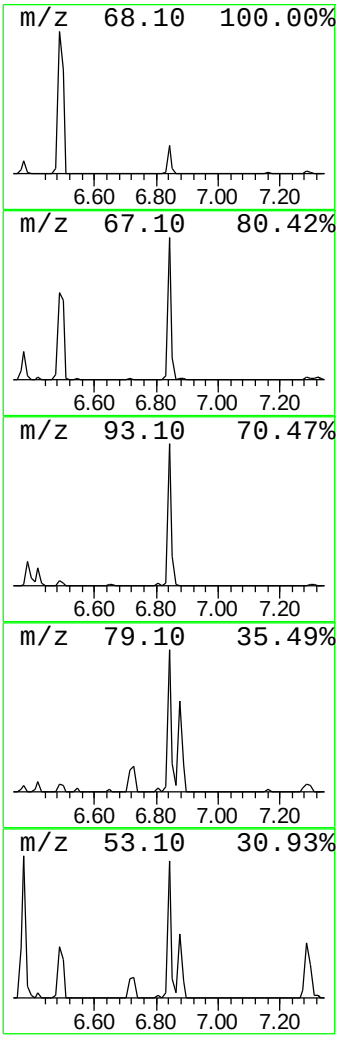
**********

Peak Number 5 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.84 | 6.27 ng | 319597 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16 | 005989-54-8 | 95 |
| 2 | Limonene | 136 | C10H16 | 000138-86-3 | 91 |
| 3 | Cyclohexene, 1-methyl-5-(1-methy... | 136 | C10H16 | 013898-73-2 | 90 |
| 4 | D-Limonene | 136 | C10H16 | 005989-27-5 | 89 |
| 5 | 1,5-Cyclooctadiene, 1,5-dimethyl- | 136 | C10H16 | 003760-14-3 | 83 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

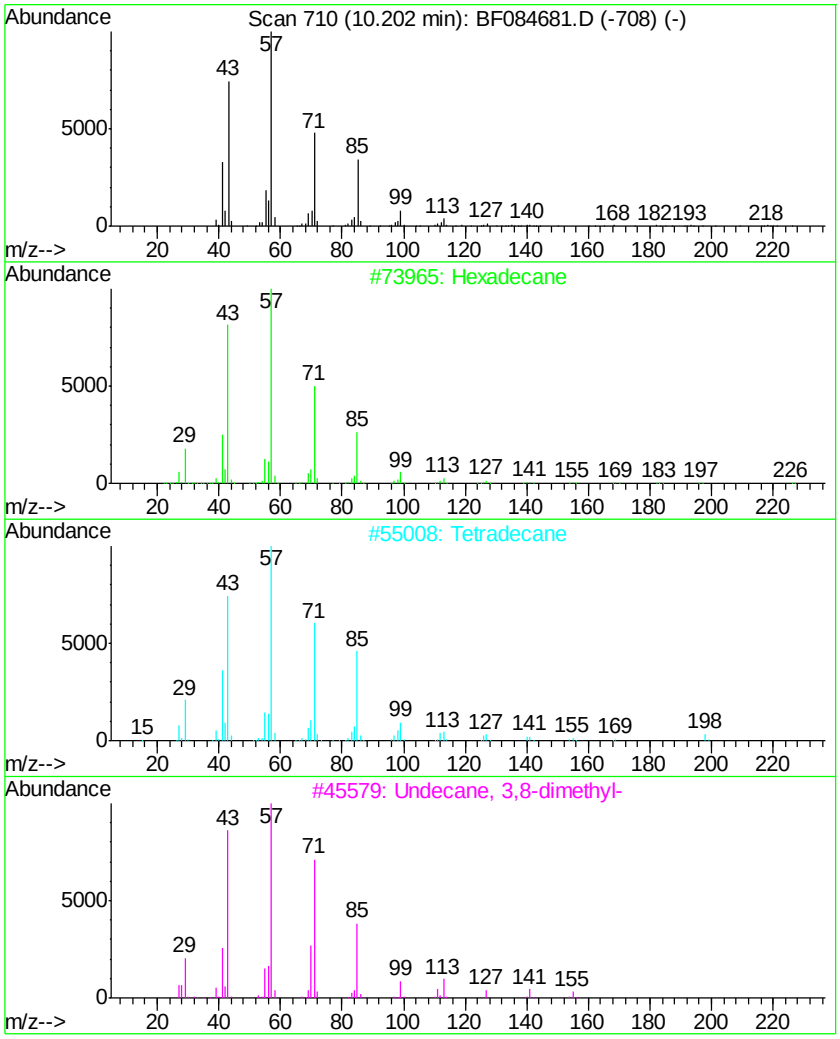
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

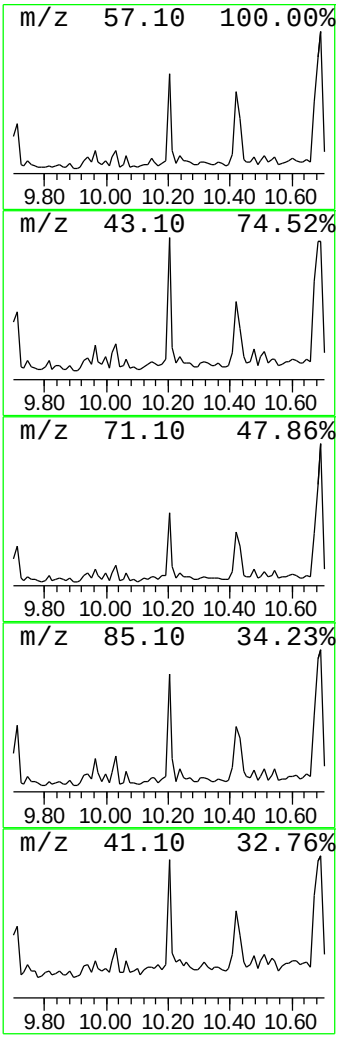
**********

Peak Number 7 Hexadecane Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.20 | 8.27 ng | 536742 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 97 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Undecane, 3,8-dimethyl- | 184 | C13H28 | 017301-30-3 | 83 |
| 4 | Tridecane, 7-propyl- | 226 | C16H34 | 055045-09-5 | 80 |
| 5 | Tridecane, 6-propyl- | 226 | C16H34 | 055045-10-8 | 74 |



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Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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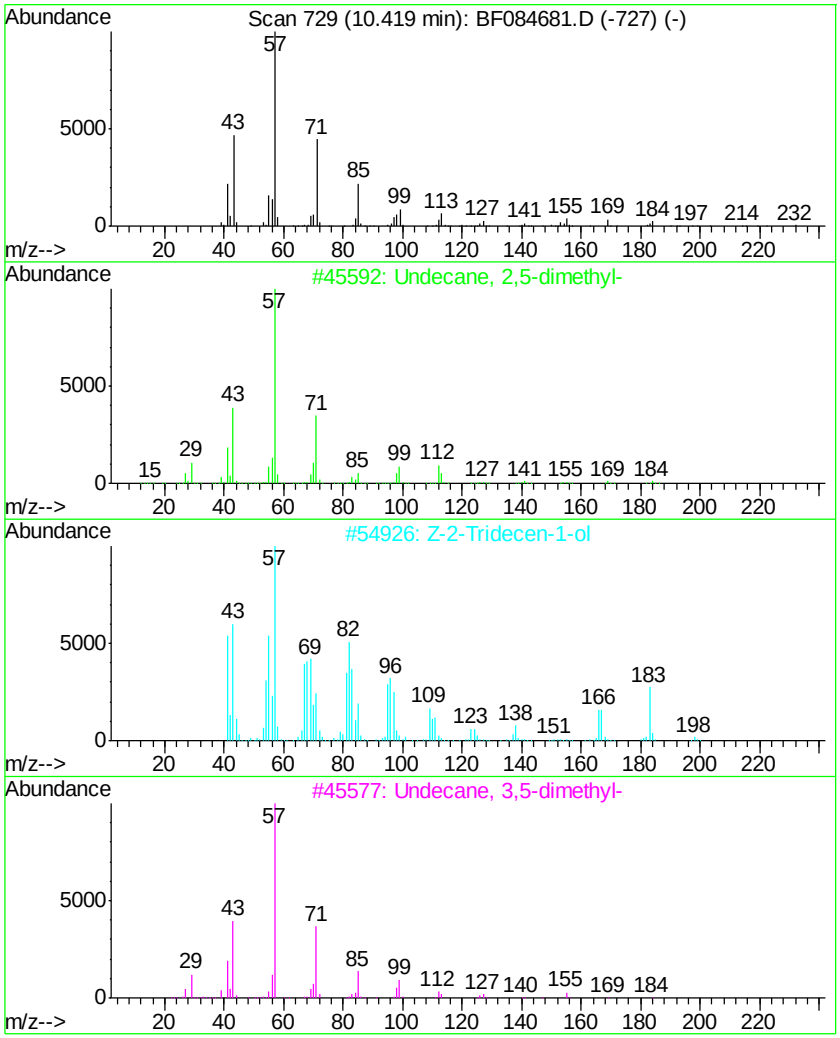
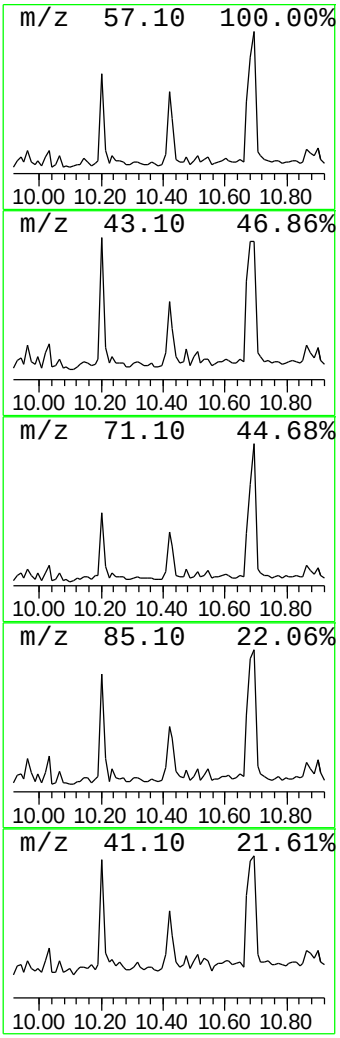
Peak Number 8 Undecane, 2,5-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.42 | 9.06 ng | 588276 | Acenaphthene-d10 | 9.76 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2,5-dimethyl- | 184 | C13H28 | 017301-22-3 | 76 |
| 2 | Z-2-Tridecen-1-ol | 198 | C13H26O | 1000130-75-8 | 74 |
| 3 | Undecane, 3,5-dimethyl- | 184 | C13H28 | 017312-81-1 | 72 |
| 4 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 72 |
| 5 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 64 |



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Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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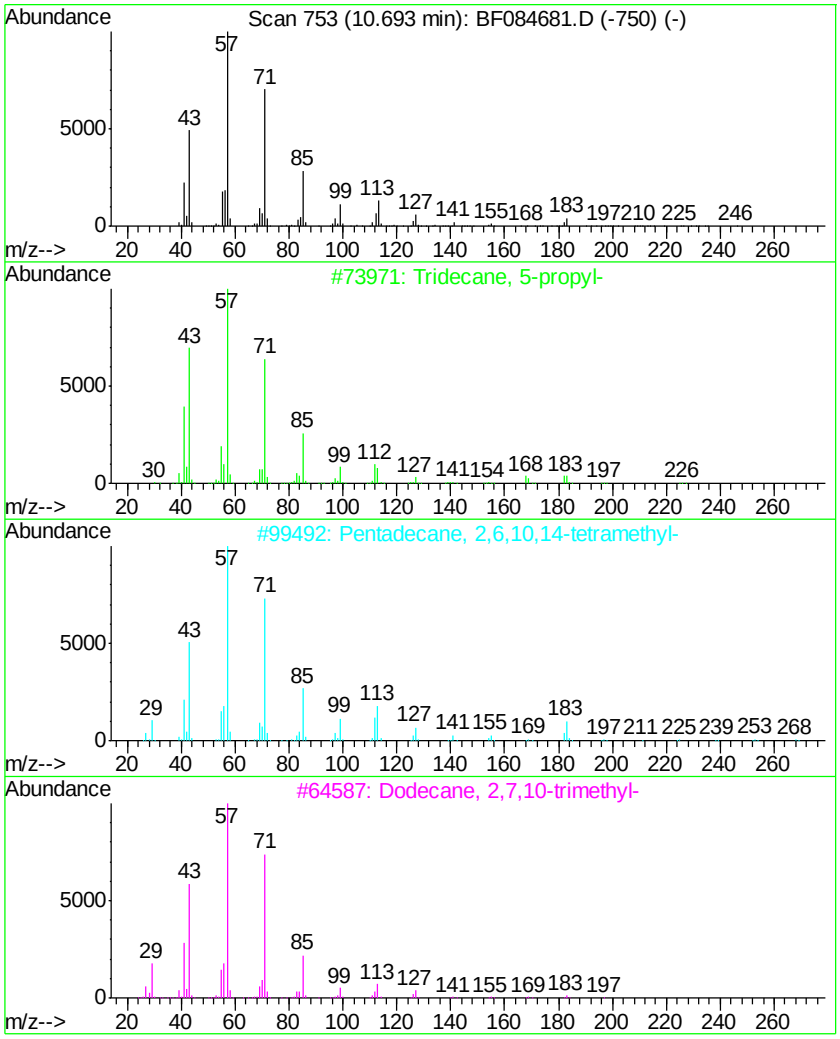
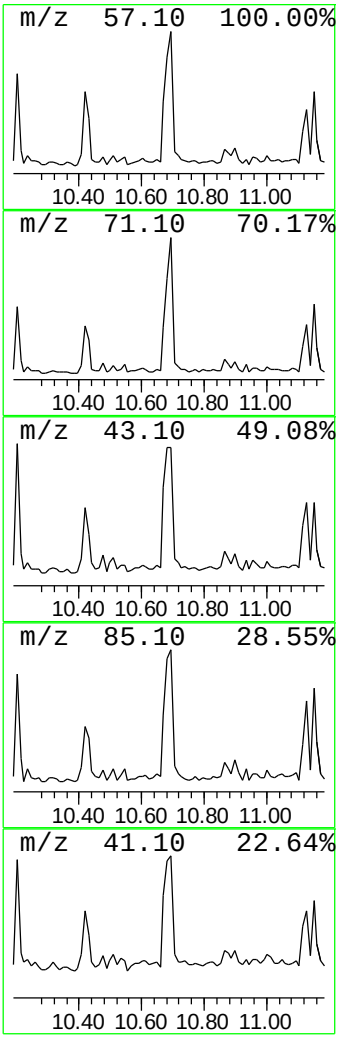
Peak Number 9 Tridecane, 5-propyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.69 | 28.22 ng | 1625990 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 5-propyl- | 226 | C16H34 | 055045-11-9 | 93 |
| 2 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 86 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 4 | 5,5-Dibutylnonane | 240 | C17H36 | 006008-17-9 | 78 |
| 5 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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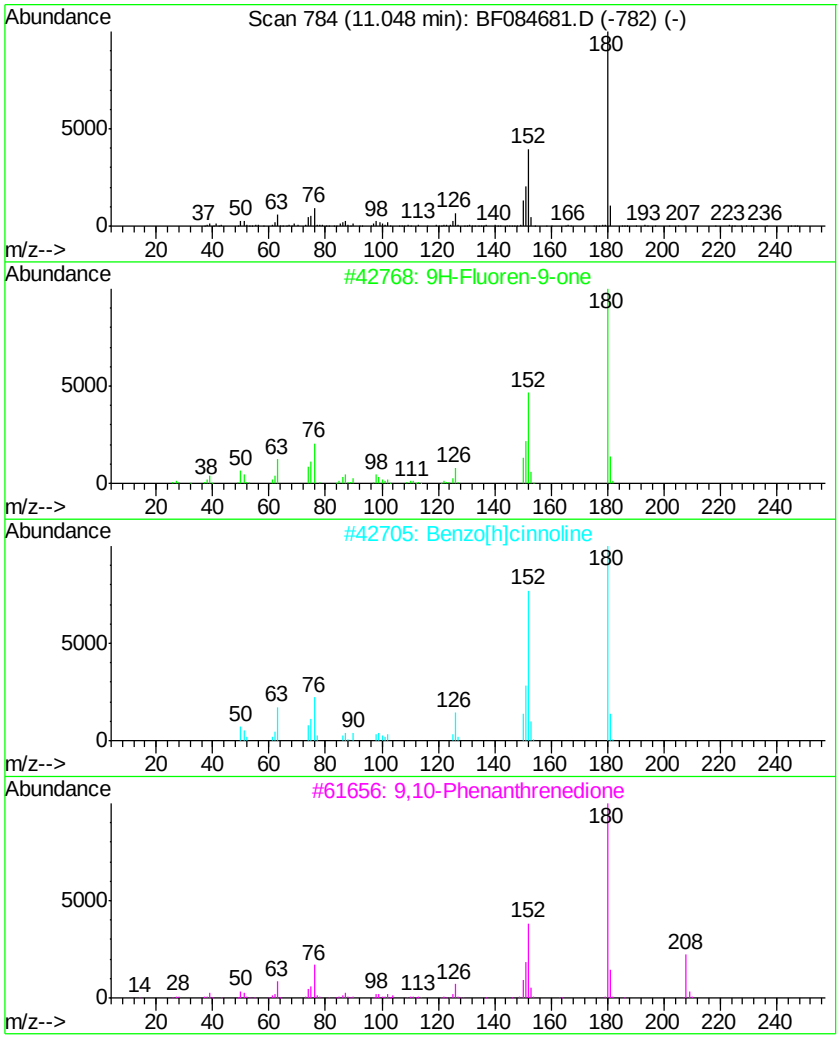
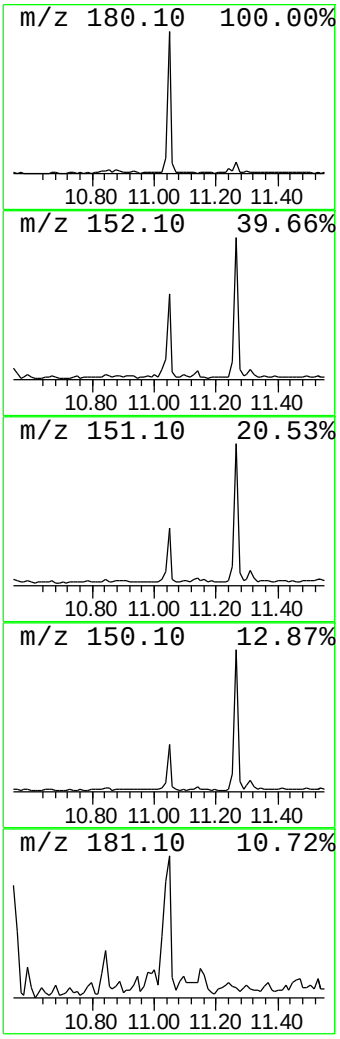
Peak Number 10 9H-Fluoren-9-one Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.05 | 6.78 ng | 390711 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 95 |
| 2 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 87 |
| 3 | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 72 |
| 4 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 49 |
| 5 | Imidazolo[2,3-b]pyrimidine-2,5,7... | 223 | C10H13N3O3 | 1000259-61-6 | 36 |



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Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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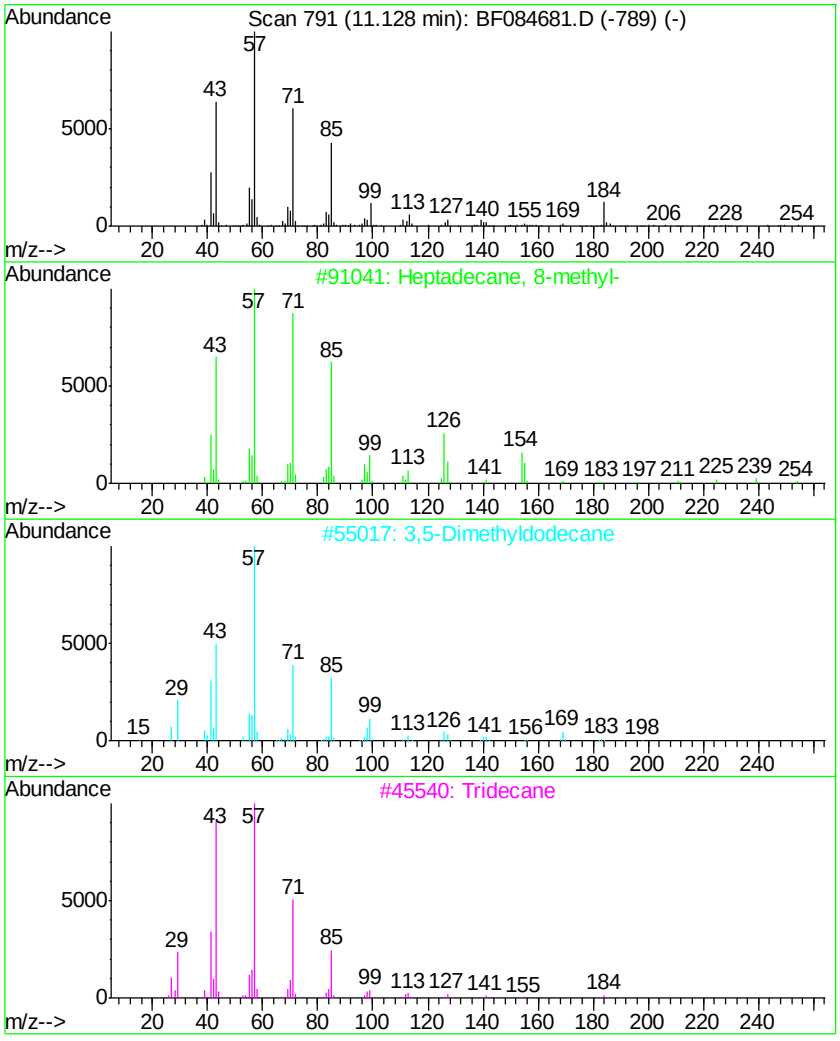
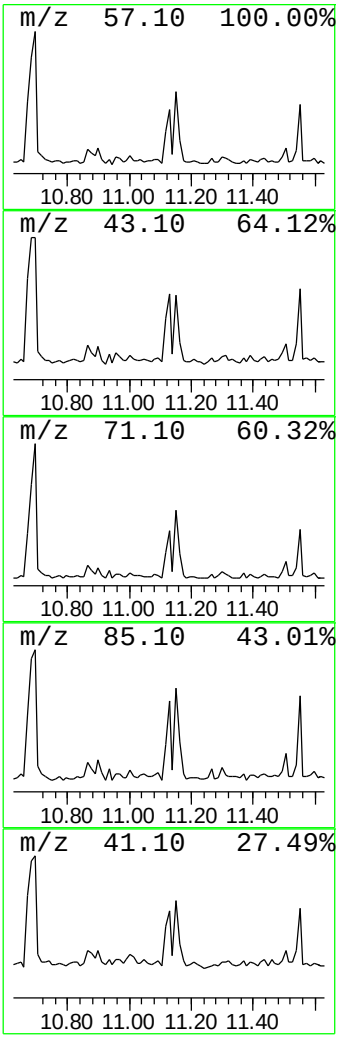
Peak Number 11 Heptadecane, 8-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.13 | 9.50 ng | 547621 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane, 8-methyl- | 254 | C18H38 | 013287-23-5 | 89 |
| 2 | 3,5-Dimethyldodecane | 198 | C14H30 | 107770-99-0 | 87 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 87 |
| 4 | Heneicosane | 296 | C21H44 | 000629-94-7 | 86 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |



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Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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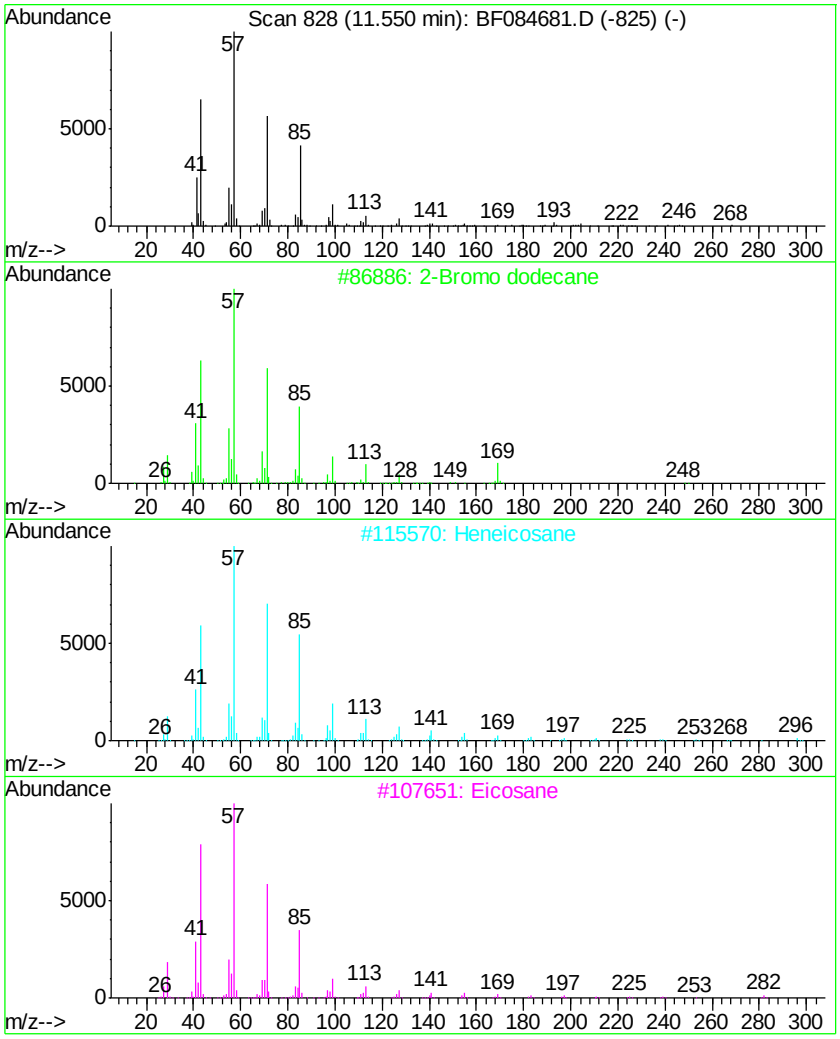
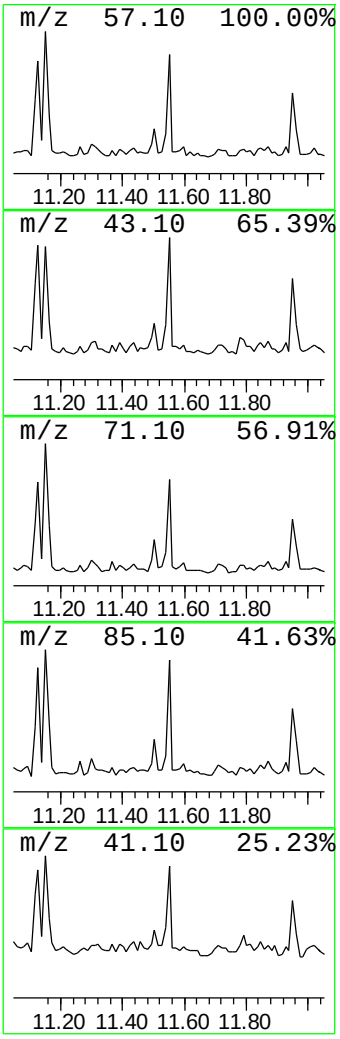
Peak Number 12 2-Bromo dodecane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.55 | 6.86 ng | 395175 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 90 |
| 2 | Heneicosane | 296 | C21H44 | 000629-94-7 | 90 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 86 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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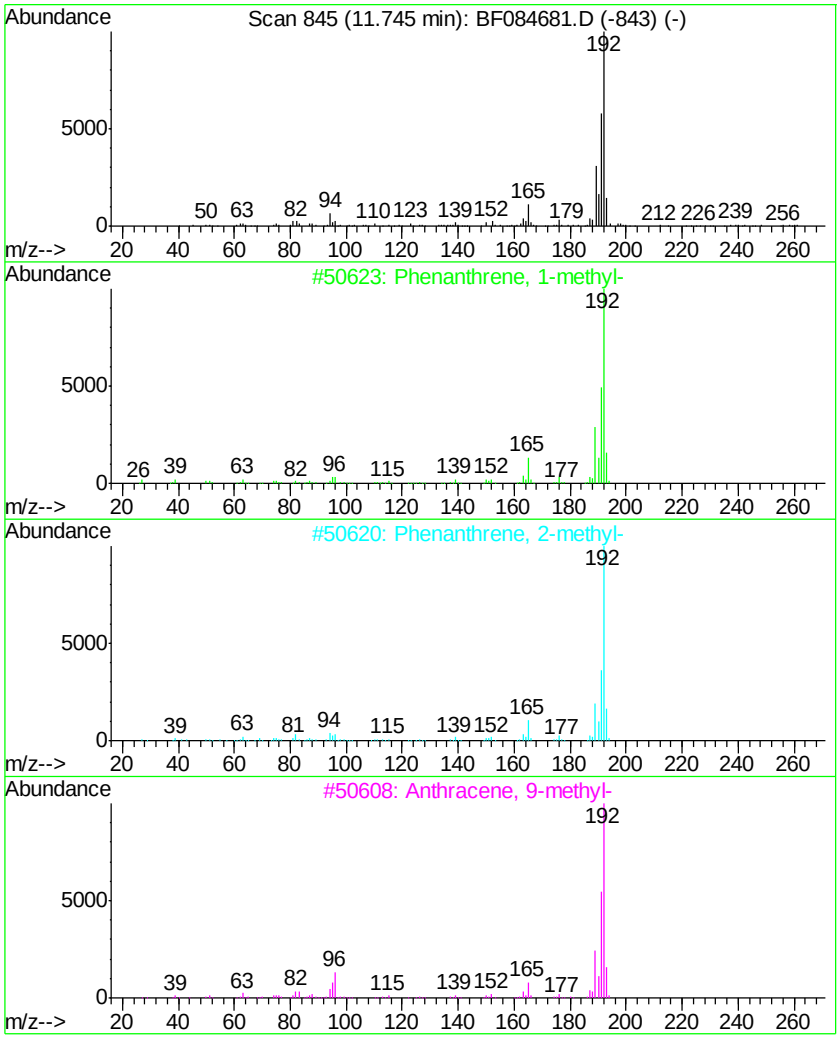
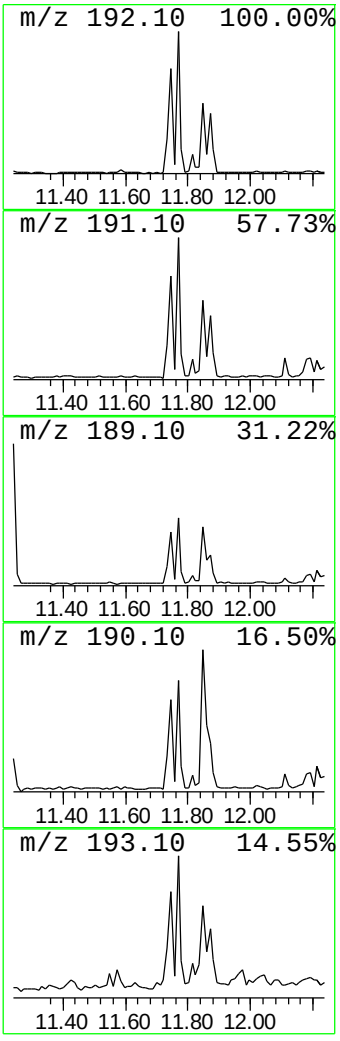
Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.74 | 6.26 ng | 360571 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 91 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
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Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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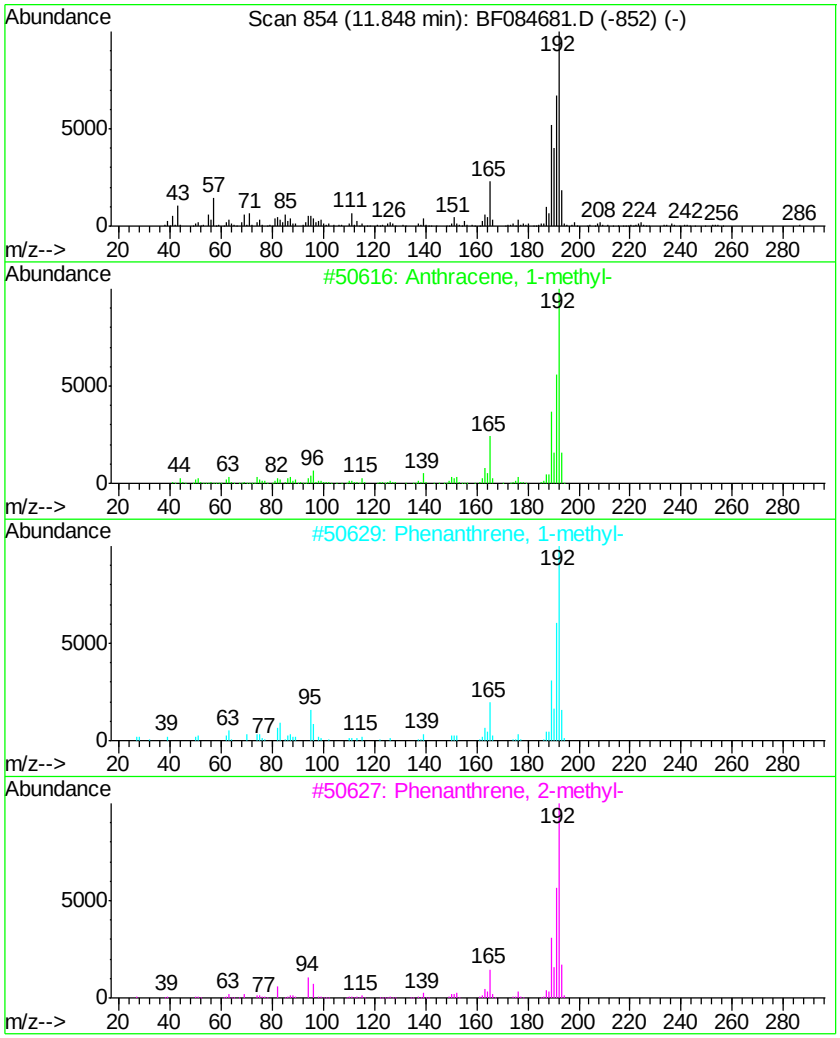
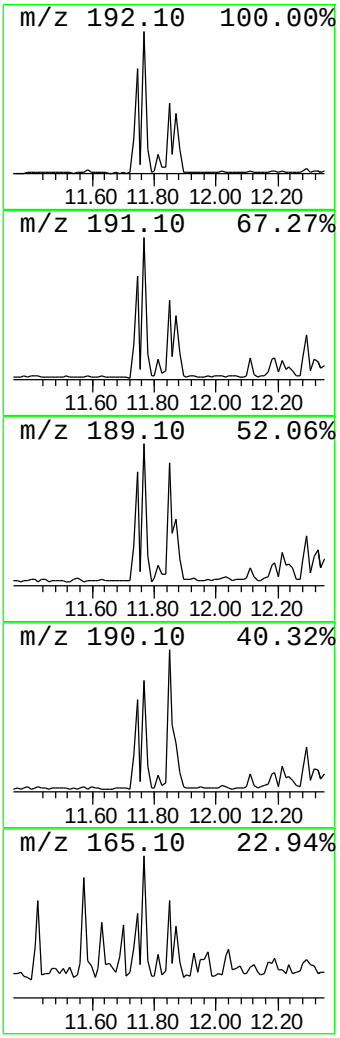
Peak Number 15 Anthracene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 9.96 ng | 573740 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 83 |
| 4 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 78 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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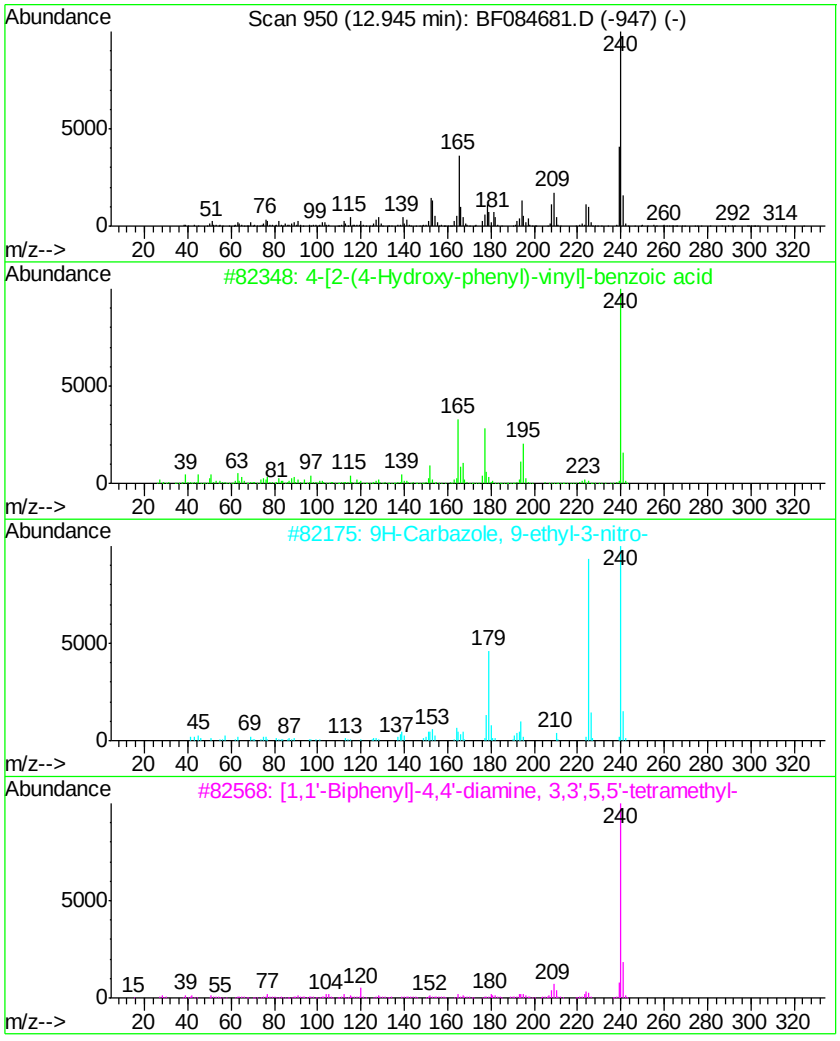
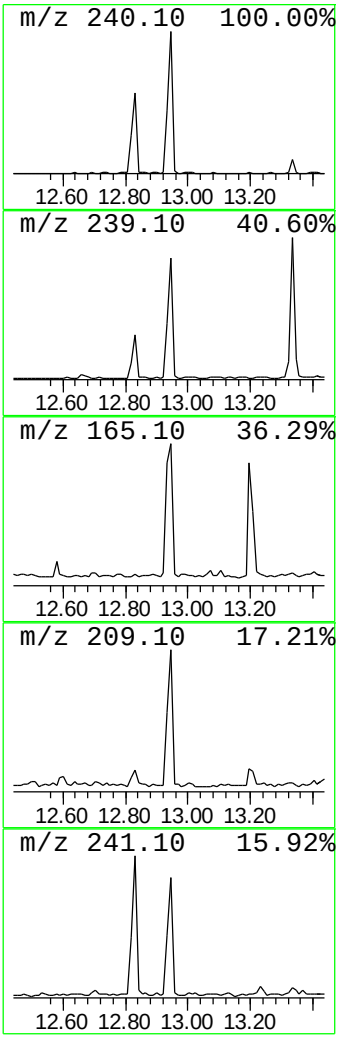
Peak Number 17 4-[2-(4-Hydroxy-phenyl)-vin... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 11.00 ng | 875864 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-[2-(4-Hydroxy-phenyl)-vinyl]-b... | 240 | C15H12O3 | 152027-61-7 | 53 |
| 2 | 9H-Carbazole, 9-ethyl-3-nitro- | 240 | C14H12N2O2 | 000086-20-4 | 50 |
| 3 | [1,1'-Biphenyl]-4,4'-diamine, 3,... | 240 | C16H20N2 | 054827-17-7 | 49 |
| 4 | Benzenamine, 4-[2-(4-nitrophenyl... | 240 | C14H12N2O2 | 004629-58-7 | 49 |
| 5 | 1,3-Diamino-5,6-dihydro-8,9-dime... | 240 | C14H16N4 | 037598-81-5 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
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Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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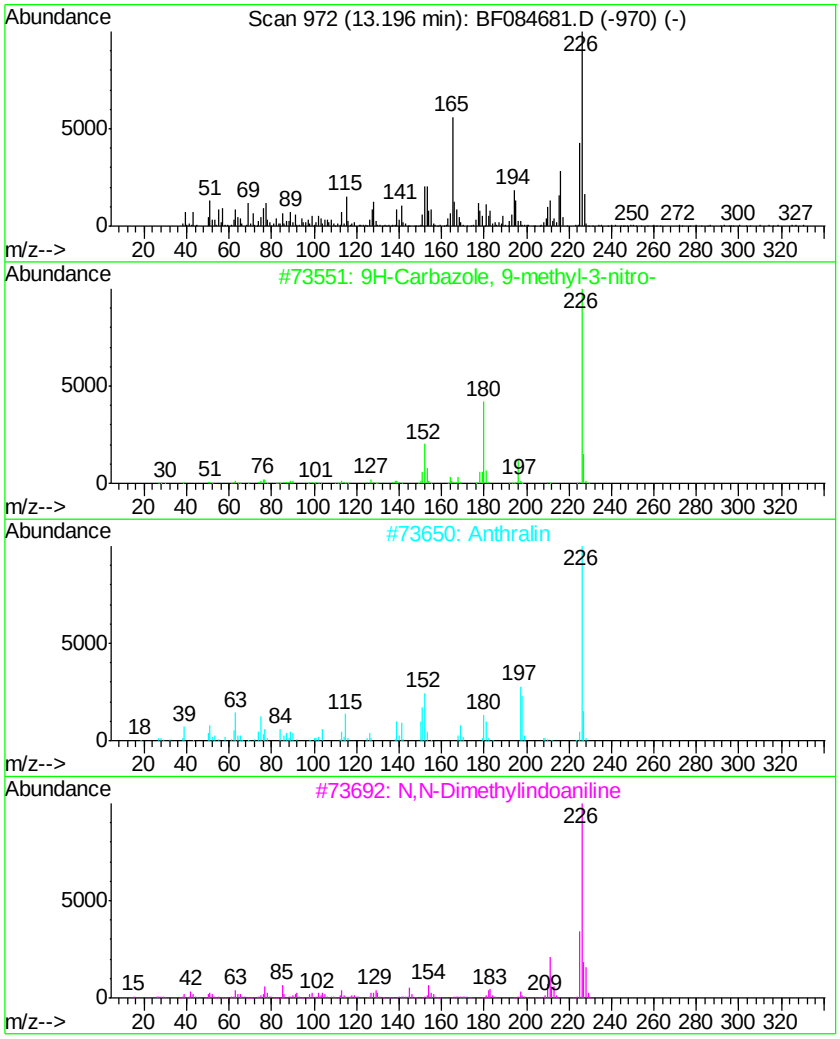
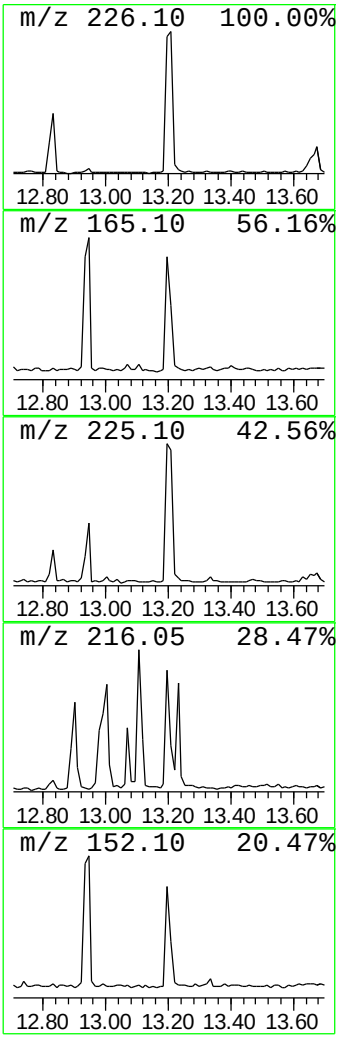
Peak Number 18 unknown13.20 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.20 | 9.74 ng | 775871 | Chrysene-d12 | 13.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Carbazole, 9-methyl-3-nitro- | 226 | C13H10N2O2 | 061166-05-0 | 46 |
| 2 | Anthralin | 226 | C14H10O3 | 000480-22-8 | 46 |
| 3 | N,N-Dimethylindoaniline | 226 | C14H14N2O | 002150-58-5 | 45 |
| 4 | Benzenamine, N-[(4-nitrophenyl)m... | 226 | C13H10N2O2 | 000785-80-8 | 43 |
| 5 | Imidazole, 5-methyl-4-trifluorom... | 226 | C11H9F3N2 | 081769-66-6 | 43 |



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Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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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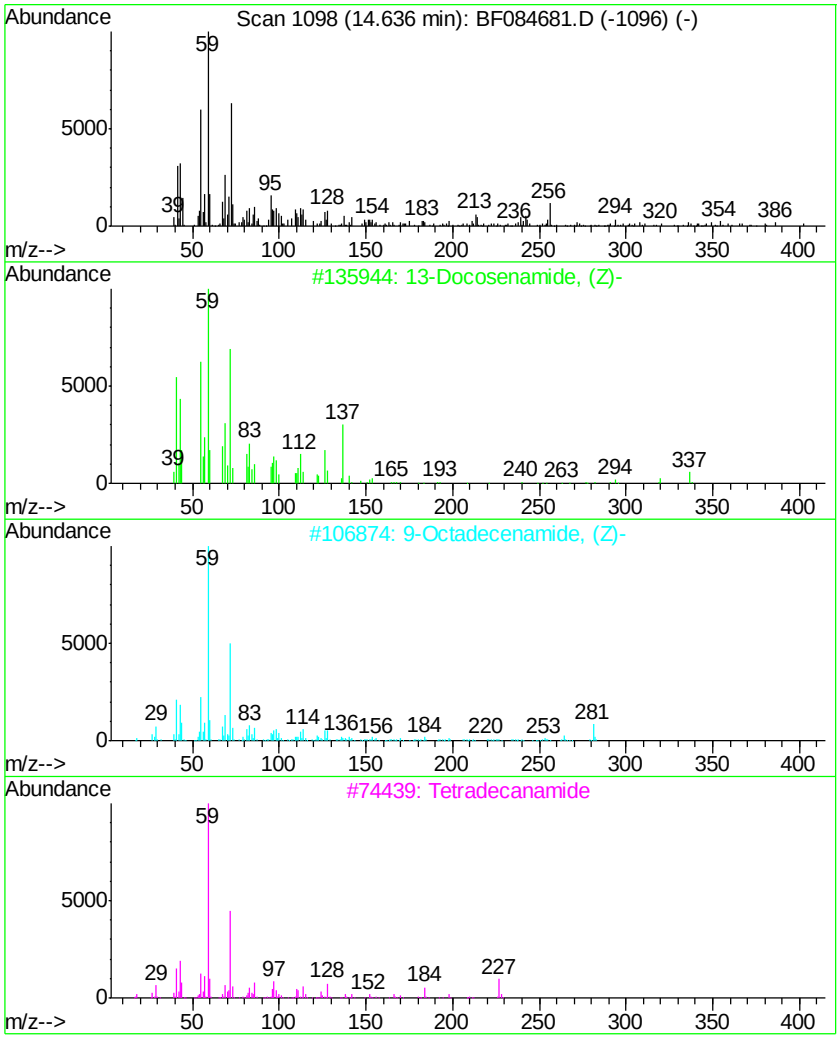
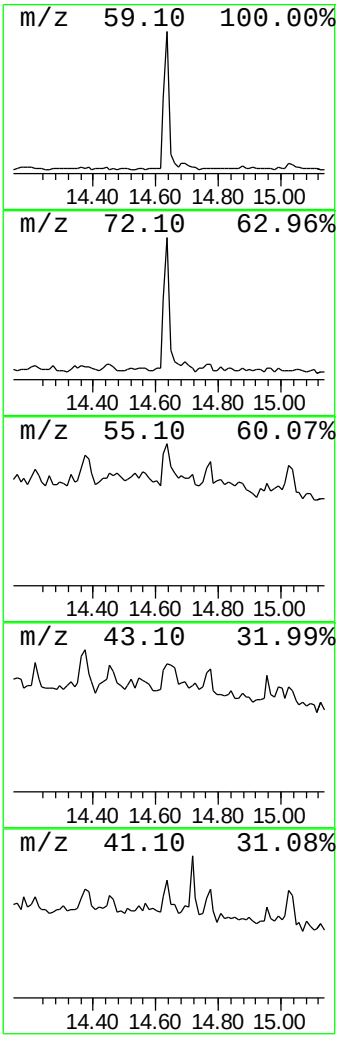
Peak Number 19 13-Docosenamide, (Z)- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 7.31 ng | 353461 | Perylene-d12 | 15.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 13-Docosenamide, (Z)- | 337 | C22H43NO | 000112-84-5 | 74 |
| 2 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 74 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 64 |
| 4 | Hexadecanamide | 255 | C16H33NO | 000629-54-9 | 62 |
| 5 | Heptanamide, 4-ethyl-5-methyl- | 171 | C10H21NO | 054789-40-1 | 62 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

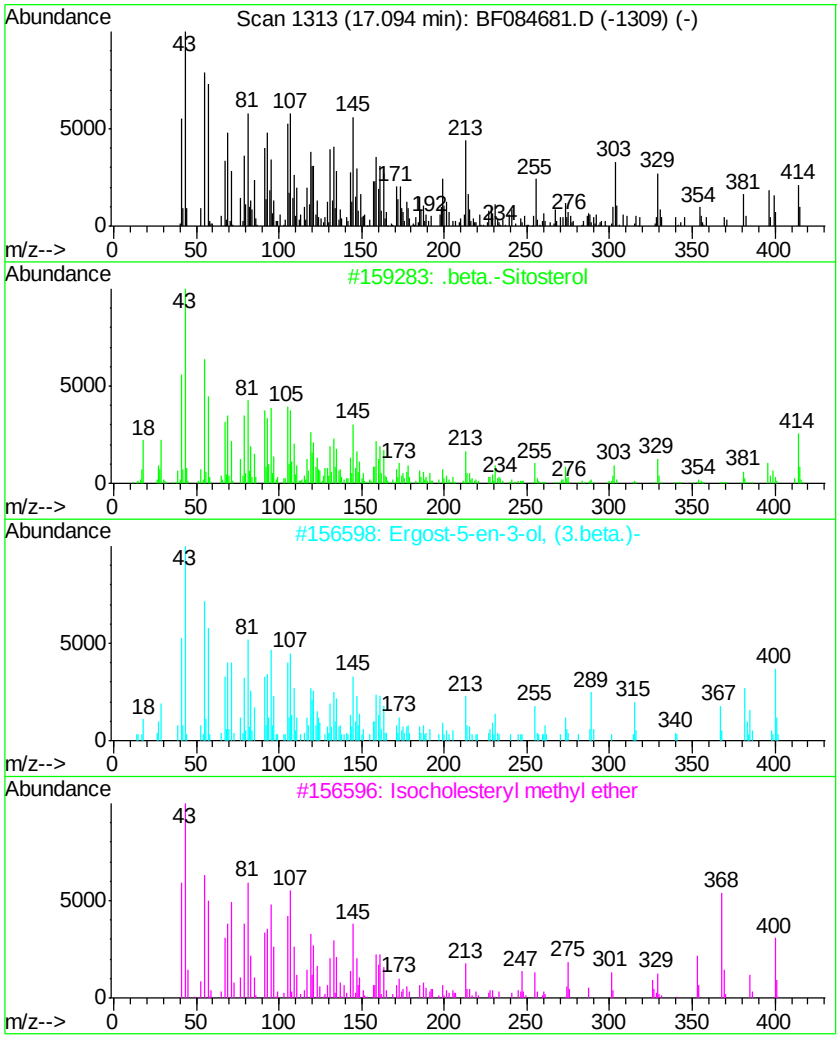
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

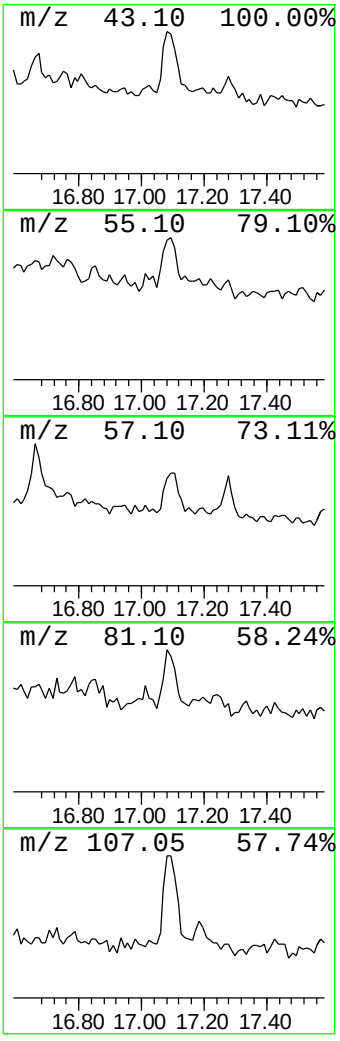
**********

Peak Number 20 .beta.-Sitosterol Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.09 | 10.38 ng | 502372 | Perylene-d12 | 15.27 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-Sitosterol | 414 | C29H50O | 000083-46-5 | 55 |
| 2 | Ergost-5-en-3-ol, (3.beta.)- | 400 | C28H48O | 004651-51-8 | 43 |
| 3 | Isocholesteryl methyl ether | 400 | C28H48O | 029944-53-4 | 38 |
| 4 | .gamma.-Sitosterol | 414 | C29H50O | 000083-47-6 | 38 |
| 5 | Stigmasterol, 22,23-dihydro- | 414 | C29H50O | 1000214-20-7 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF013016\
Data File : BF084681.D
Acq On : 30 Jan 2016 12:59
Operator : SJ/IZ
Sample : H1272-06
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SUP-B013(10-12.5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012916.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... | 4.89 | 65.1 | ng | 3321950 | 1 | 6.73 | 1019950 | 20.0 |
| .alpha.-Pinene | 5.98 | 48.7 | ng | 2481470 | 1 | 6.73 | 1019950 | 20.0 |
| Bicyclo[2.2.1]hep... | 6.16 | 8.3 | ng | 425669 | 1 | 6.73 | 1019950 | 20.0 |
| unknown6.49 | 6.49 | 62.9 | ng | 3207080 | 1 | 6.73 | 1019950 | 20.0 |
| Cyclohexene, 1-me... | 6.84 | 6.3 | ng | 319597 | 1 | 6.73 | 1019950 | 20.0 |
| Hexadecane | 10.20 | 8.3 | ng | 536742 | 3 | 9.76 | 1298350 | 20.0 |
| Undecane, 2,5-dim... | 10.42 | 9.1 | ng | 588276 | 3 | 9.76 | 1298350 | 20.0 |
| Tridecane, 5-propyl- | 10.69 | 28.2 | ng | 1625990 | 4 | 11.24 | 1152530 | 20.0 |
| 9H-Fluoren-9-one | 11.05 | 6.8 | ng | 390711 | 4 | 11.24 | 1152530 | 20.0 |
| Heptadecane, 8-me... | 11.13 | 9.5 | ng | 547621 | 4 | 11.24 | 1152530 | 20.0 |
| 2-Bromo dodecane | 11.55 | 6.9 | ng | 395175 | 4 | 11.24 | 1152530 | 20.0 |
| Phenanthrene, 1-m... | 11.74 | 6.3 | ng | 360571 | 4 | 11.24 | 1152530 | 20.0 |
| Anthracene, 1-met... | 11.85 | 10.0 | ng | 573740 | 4 | 11.24 | 1152530 | 20.0 |
| 4-[2-(4-Hydroxy-p... | 12.94 | 11.0 | ng | 875864 | 5 | 13.87 | 1592650 | 20.0 |
| unknown13.20 | 13.20 | 9.7 | ng | 775871 | 5 | 13.87 | 1592650 | 20.0 |
| 13-Docosenamide, ... | 14.64 | 7.3 | ng | 353461 | 6 | 15.27 | 967568 | 20.0 |
| .beta.-Sitosterol | 17.09 | 10.4 | ng | 502372 | 6 | 15.27 | 967568 | 20.0 |