LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

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-BF092415.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 | 3.954 | 156 | 159 | 162 | rVB | 156084 | 215544 | 5.15% | 0.382% |
| 2 | 5.143 | 260 | 263 | 265 | rVB | 1096684 | 1678091 | 40.13% | 2.973% |
| 3 | 5.406 | 284 | 286 | 288 | rBV | 216155 | 195797 | 4.68% | 0.347% |
| 4 | 5.531 | 293 | 297 | 300 | rBV2 | 1772676 | 2242038 | 53.62% | 3.972% |
| 5 | 5.771 | 315 | 318 | 321 | rBV | 476830 | 555899 | 13.29% | 0.985% |
| 6 | 6.457 | 376 | 378 | 380 | rBV | 376095 | 312382 | 7.47% | 0.553% |
| 7 | 6.491 | 380 | 381 | 383 | rVV | 126053 | 88765 | 2.12% | 0.157% |
| 8 | 6.560 | 383 | 387 | 389 | rVV | 1753899 | 2149752 | 51.41% | 3.808% |
| 9 | 6.617 | 390 | 392 | 393 | rVV | 116451 | 93738 | 2.24% | 0.166% |
| 10 | 6.697 | 397 | 399 | 401 | rVV | 1754577 | 2003941 | 47.92% | 3.550% |
| 11 | 6.766 | 401 | 405 | 407 | rVV | 566517 | 665699 | 15.92% | 1.179% |
| 12 | 6.811 | 407 | 409 | 411 | rVB | 193675 | 171258 | 4.10% | 0.303% |
| 13 | 6.937 | 418 | 420 | 421 | rBV | 933217 | 764850 | 18.29% | 1.355% |
| 14 | 6.960 | 421 | 422 | 424 | rVV | 213673 | 301894 | 7.22% | 0.535% |
| 15 | 6.994 | 424 | 425 | 429 | rVV2 | 300209 | 404899 | 9.68% | 0.717% |
| 16 | 7.097 | 431 | 434 | 435 | rVV | 2533023 | 2454076 | 58.69% | 4.347% |
| 17 | 7.200 | 440 | 443 | 445 | rVB | 1094626 | 1015926 | 24.29% | 1.800% |
| 18 | 7.257 | 445 | 448 | 449 | rBV | 113293 | 93512 | 2.24% | 0.166% |
| 19 | 7.474 | 465 | 467 | 468 | rBV | 178043 | 238675 | 5.71% | 0.423% |
| 20 | 7.509 | 468 | 470 | 471 | rVB | 1644066 | 1933284 | 46.23% | 3.425% |
| 21 | 7.543 | 471 | 473 | 475 | rVB2 | 91261 | 152392 | 3.64% | 0.270% |
| 22 | 7.577 | 475 | 476 | 479 | rVB3 | 93826 | 100783 | 2.41% | 0.179% |
| 23 | 7.863 | 499 | 501 | 503 | rBV2 | 97045 | 98798 | 2.36% | 0.175% |
| 24 | 7.966 | 507 | 510 | 512 | rBV2 | 418425 | 593275 | 14.19% | 1.051% |
| 25 | 8.000 | 512 | 513 | 517 | rVB | 299011 | 535223 | 12.80% | 0.948% |
| 26 | 8.092 | 520 | 521 | 523 | rVB | 155820 | 133904 | 3.20% | 0.237% |
| 27 | 8.252 | 531 | 535 | 537 | rBV2 | 3337815 | 4181734 | 100.00% | 7.408% |
| 28 | 8.457 | 549 | 553 | 556 | rVB3 | 130138 | 236222 | 5.65% | 0.418% |
| 29 | 8.572 | 559 | 563 | 566 | rBV2 | 129221 | 226245 | 5.41% | 0.401% |
| 30 | 8.629 | 566 | 568 | 569 | rBV2 | 50225 | 93855 | 2.24% | 0.166% |
| 31 | 8.812 | 582 | 584 | 586 | rBV | 446022 | 629478 | 15.05% | 1.115% |
| 32 | 8.857 | 586 | 588 | 589 | rBV | 265422 | 295423 | 7.06% | 0.523% |
| 33 | 8.937 | 594 | 595 | 597 | rVB | 1214363 | 910466 | 21.77% | 1.613% |
| 34 | 9.040 | 602 | 604 | 606 | rVV | 1188507 | 1120182 | 26.79% | 1.984% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

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-BF092415.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.075 | 606 | 607 | 611 | rVB3 | 86774 | 146996 | 3.52% | 0.260% |
| 36 | 9.223 | 617 | 620 | 621 | rBV2 | 131539 | 229200 | 5.48% | 0.406% |
| 37 | 9.246 | 621 | 622 | 624 | rVV | 145516 | 145633 | 3.48% | 0.258% |
| 38 | 9.303 | 624 | 627 | 629 | rVV | 3727257 | 3423452 | 81.87% | 6.065% |
| 39 | 9.372 | 631 | 633 | 634 | rVV | 126633 | 126802 | 3.03% | 0.225% |
| 40 | 9.406 | 634 | 636 | 638 | rVV | 254545 | 387449 | 9.27% | 0.686% |
| 41 | 9.463 | 638 | 641 | 643 | rVV4 | 357547 | 588857 | 14.08% | 1.043% |
| 42 | 9.497 | 643 | 644 | 646 | rVV | 223528 | 273426 | 6.54% | 0.484% |
| 43 | 9.543 | 646 | 648 | 649 | rVV | 248557 | 374865 | 8.96% | 0.664% |
| 44 | 9.635 | 655 | 656 | 657 | rVV | 211077 | 210479 | 5.03% | 0.373% |
| 45 | 9.669 | 657 | 659 | 660 | rVV2 | 215401 | 303737 | 7.26% | 0.538% |
| 46 | 9.703 | 660 | 662 | 664 | rVV2 | 452266 | 451223 | 10.79% | 0.799% |
| 47 | 9.760 | 664 | 667 | 670 | rVB4 | 68810 | 157250 | 3.76% | 0.279% |
| 48 | 9.817 | 670 | 672 | 673 | rBV | 253759 | 315161 | 7.54% | 0.558% |
| 49 | 9.840 | 673 | 674 | 677 | rVV | 1525432 | 1431515 | 34.23% | 2.536% |
| 50 | 9.943 | 681 | 683 | 684 | rVV | 115248 | 175591 | 4.20% | 0.311% |
| 51 | 9.977 | 684 | 686 | 688 | rVV2 | 928580 | 1097995 | 26.26% | 1.945% |
| 52 | 10.012 | 688 | 689 | 693 | rVV | 470900 | 437956 | 10.47% | 0.776% |
| 53 | 10.069 | 693 | 694 | 697 | rVV2 | 162842 | 179561 | 4.29% | 0.318% |
| 54 | 10.138 | 698 | 700 | 703 | rVV4 | 188572 | 336443 | 8.05% | 0.596% |
| 55 | 10.183 | 703 | 704 | 711 | rVB2 | 215753 | 384375 | 9.19% | 0.681% |
| 56 | 10.286 | 711 | 713 | 716 | rBV3 | 117858 | 208441 | 4.98% | 0.369% |
| 57 | 10.378 | 719 | 721 | 724 | rVB3 | 100578 | 126479 | 3.02% | 0.224% |
| 58 | 10.435 | 724 | 726 | 727 | rVB | 158765 | 123698 | 2.96% | 0.219% |
| 59 | 10.469 | 727 | 729 | 730 | rBV | 104475 | 121945 | 2.92% | 0.216% |
| 60 | 10.503 | 730 | 732 | 733 | rVV | 111827 | 148958 | 3.56% | 0.264% |
| 61 | 10.526 | 733 | 734 | 737 | rVB | 589050 | 511986 | 12.24% | 0.907% |
| 62 | 10.595 | 737 | 740 | 742 | rBV3 | 69712 | 126723 | 3.03% | 0.224% |
| 63 | 10.675 | 746 | 747 | 749 | rVV2 | 81666 | 88810 | 2.12% | 0.157% |
| 64 | 10.766 | 752 | 755 | 757 | rVV2 | 1539382 | 1651519 | 39.49% | 2.926% |
| 65 | 10.892 | 763 | 766 | 769 | rVB2 | 204847 | 234412 | 5.61% | 0.415% |
| 66 | 10.960 | 769 | 772 | 776 | rVB5 | 55086 | 120279 | 2.88% | 0.213% |
| 67 | 11.063 | 776 | 781 | 783 | rBV2 | 88595 | 181507 | 4.34% | 0.322% |
| 68 | 11.269 | 796 | 799 | 802 | rVB2 | 90917 | 179379 | 4.29% | 0.318% |
| 69 | 11.463 | 815 | 816 | 817 | rBV | 736396 | 966168 | 23.10% | 1.712% |
| 70 | 11.498 | 817 | 819 | 820 | rVB | 1579953 | 1634024 | 39.08% | 2.895% |
| 71 | 11.543 | 820 | 823 | 825 | rBV | 449459 | 380486 | 9.10% | 0.674% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

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-BF092415.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.772 | 840 | 843 | 845 | rVV3 | 74653 | 146972 | 3.51% | 0.260% |
| 73 | 11.818 | 845 | 847 | 849 | rVV3 | 52098 | 104434 | 2.50% | 0.185% |
| 74 | 11.989 | 858 | 862 | 865 | rBV2 | 308887 | 590341 | 14.12% | 1.046% |
| 75 | 12.081 | 868 | 870 | 874 | rVV2 | 339988 | 602830 | 14.42% | 1.068% |
| 76 | 12.263 | 882 | 886 | 891 | rVB2 | 153610 | 213586 | 5.11% | 0.378% |
| 77 | 12.412 | 896 | 899 | 903 | rBV3 | 157979 | 246808 | 5.90% | 0.437% |
| 78 | 12.515 | 906 | 908 | 910 | rVV | 110374 | 157027 | 3.76% | 0.278% |
| 79 | 12.572 | 912 | 913 | 915 | rVV | 197967 | 174138 | 4.16% | 0.308% |
| 80 | 12.686 | 921 | 923 | 925 | rVV | 455389 | 636593 | 15.22% | 1.128% |
| 81 | 12.721 | 925 | 926 | 929 | rVV2 | 111529 | 143259 | 3.43% | 0.254% |
| 82 | 12.778 | 929 | 931 | 933 | rVV | 228675 | 231614 | 5.54% | 0.410% |
| 83 | 12.846 | 935 | 937 | 940 | rBV3 | 48456 | 90443 | 2.16% | 0.160% |
| 84 | 12.915 | 940 | 943 | 945 | rVV | 759695 | 971244 | 23.23% | 1.721% |
| 85 | 12.972 | 945 | 948 | 950 | rVB | 109371 | 124634 | 2.98% | 0.221% |
| 86 | 13.064 | 953 | 956 | 958 | rVV | 2250137 | 3229612 | 77.23% | 5.721% |
| 87 | 13.121 | 960 | 961 | 964 | rBV2 | 71910 | 134174 | 3.21% | 0.238% |
| 88 | 13.189 | 965 | 967 | 969 | rVV | 327083 | 299333 | 7.16% | 0.530% |
| 89 | 13.235 | 969 | 971 | 974 | rVV | 95674 | 123137 | 2.94% | 0.218% |
| 90 | 13.304 | 974 | 977 | 979 | rVV | 129099 | 174710 | 4.18% | 0.309% |
| 91 | 13.338 | 979 | 980 | 984 | rVB2 | 64597 | 99732 | 2.38% | 0.177% |
| 92 | 13.441 | 984 | 989 | 990 | rBV2 | 85922 | 146681 | 3.51% | 0.260% |
| 93 | 13.909 | 1027 | 1030 | 1032 | rBV2 | 68875 | 113670 | 2.72% | 0.201% |
| 94 | 13.944 | 1032 | 1033 | 1035 | rVB | 87865 | 86721 | 2.07% | 0.154% |
| 95 | 14.104 | 1044 | 1047 | 1052 | rVV2 | 802506 | 1187478 | 28.40% | 2.104% |
| 96 | 15.144 | 1135 | 1138 | 1143 | rBV | 75219 | 168018 | 4.02% | 0.298% |
| 97 | 15.509 | 1168 | 1170 | 1173 | rVB | 125497 | 149402 | 3.57% | 0.265% |
| 98 | 15.578 | 1173 | 1176 | 1184 | rBV | 549558 | 708581 | 16.94% | 1.255% |
| 99 | 17.475 | 1338 | 1342 | 1347 | rVB | 41966 | 91647 | 2.19% | 0.162% |
| 100 | 21.476 | 1684 | 1692 | 1698 | rBV | 97652 | 431960 | 10.33% | 0.765% |

Sum of corrected areas: 56449559

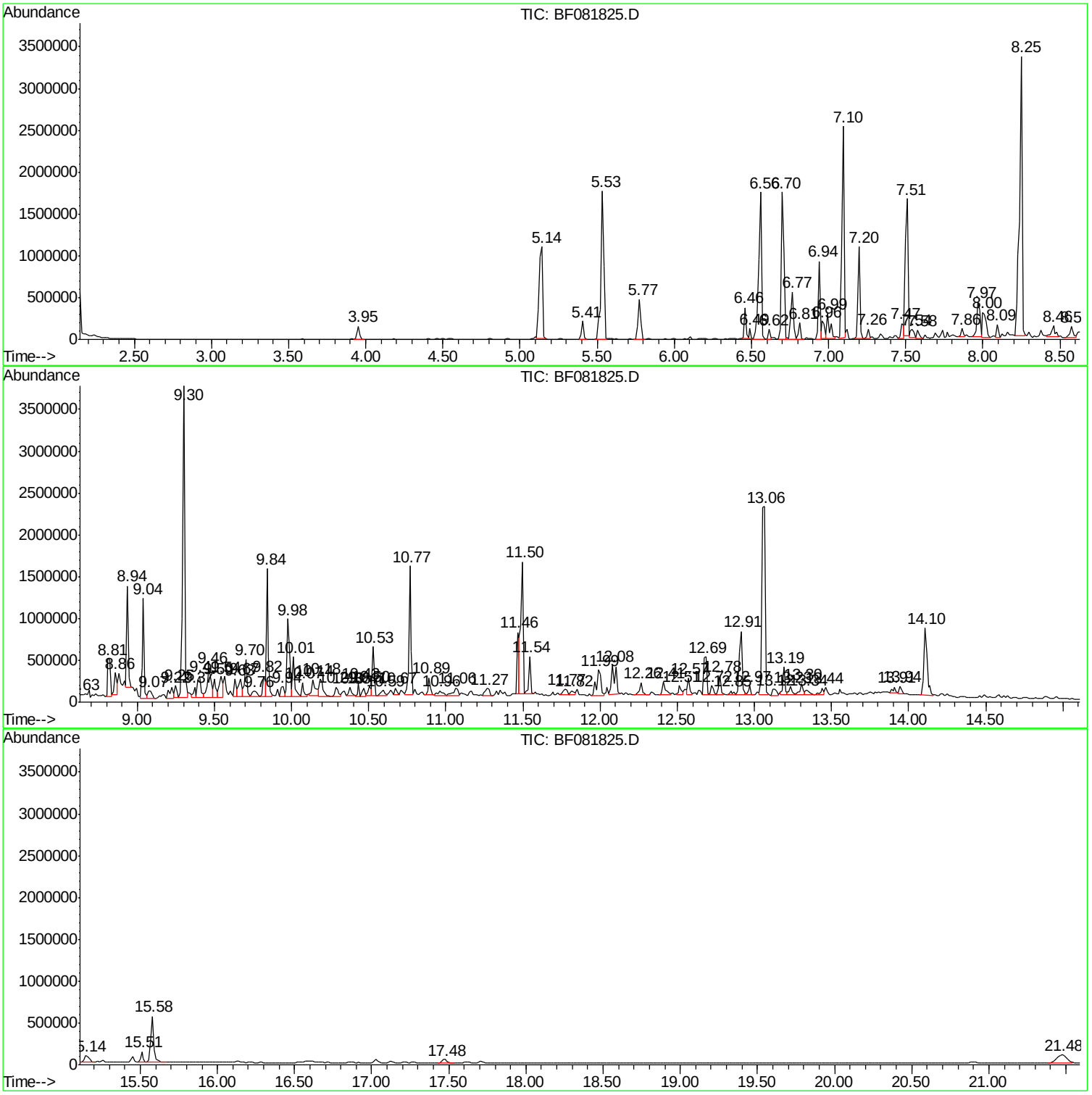
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

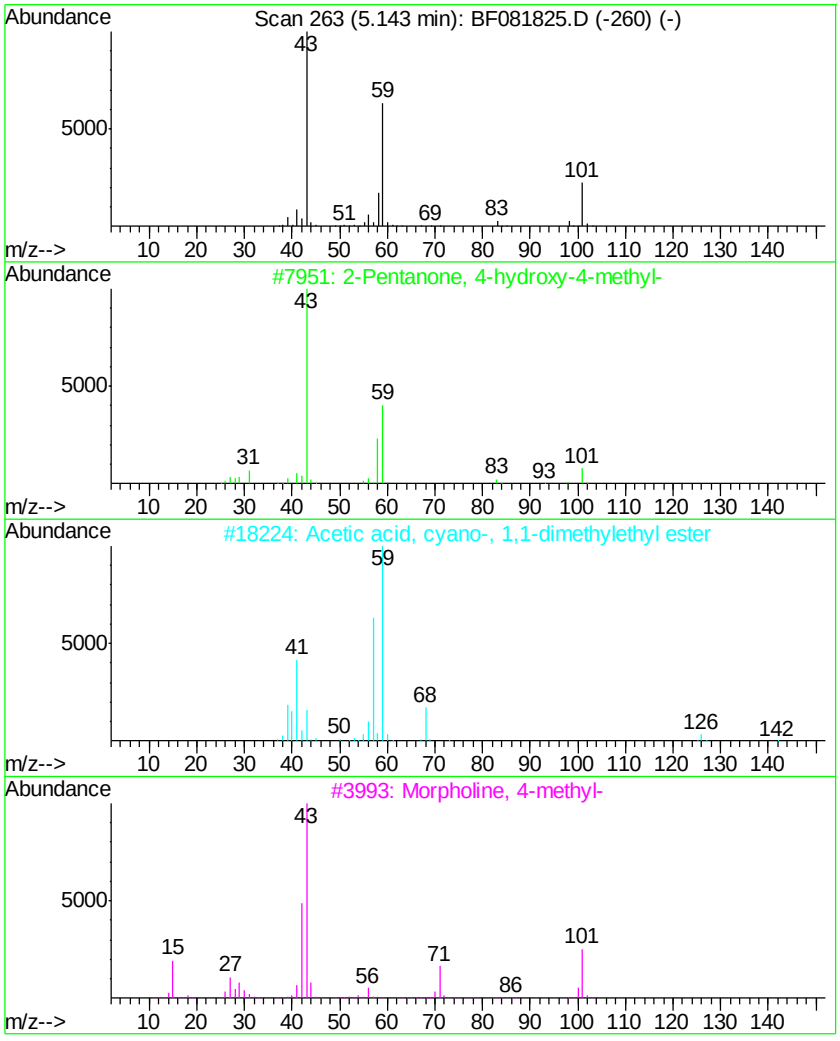
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

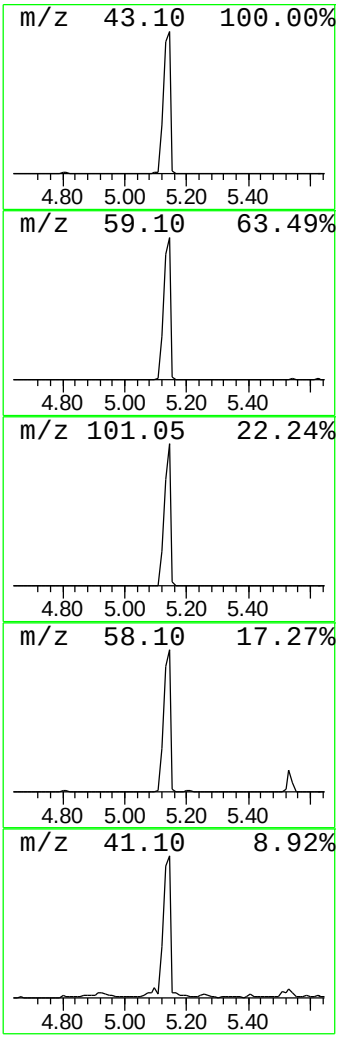
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.14 | 43.88 ng | 1678090 | 1,4-Dichlorobenzene-d4 | 6.94 |

| 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, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 4 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |
| 5 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

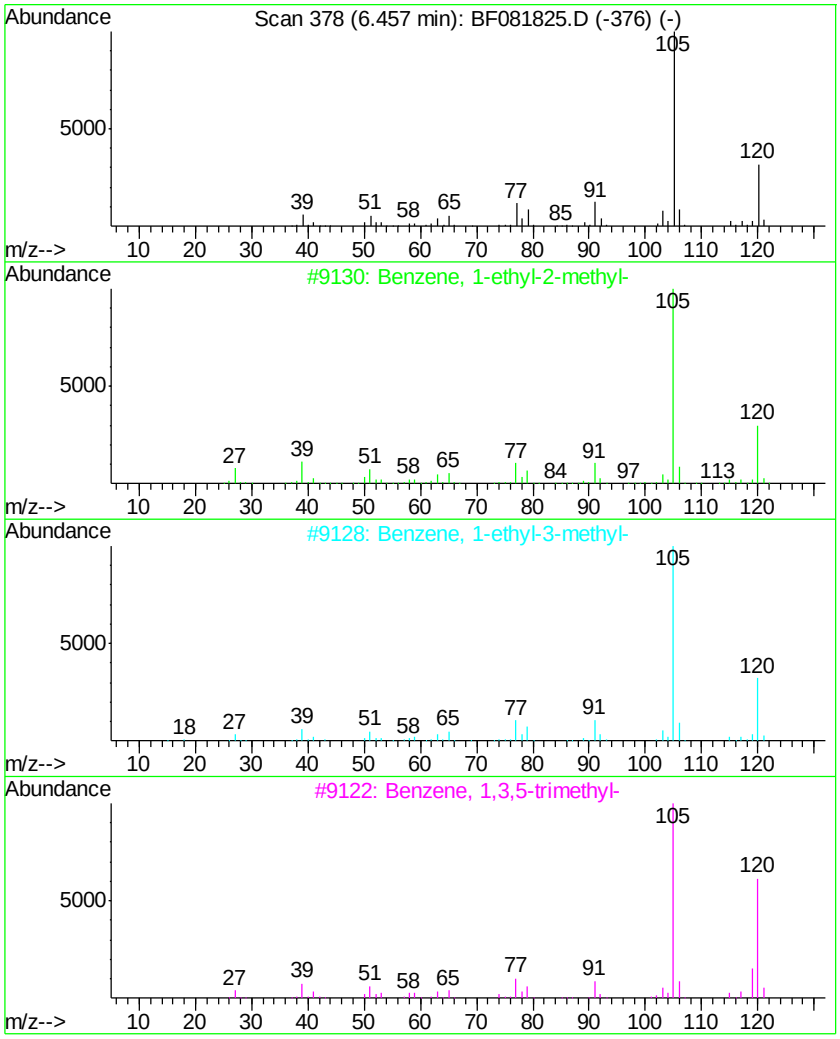
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

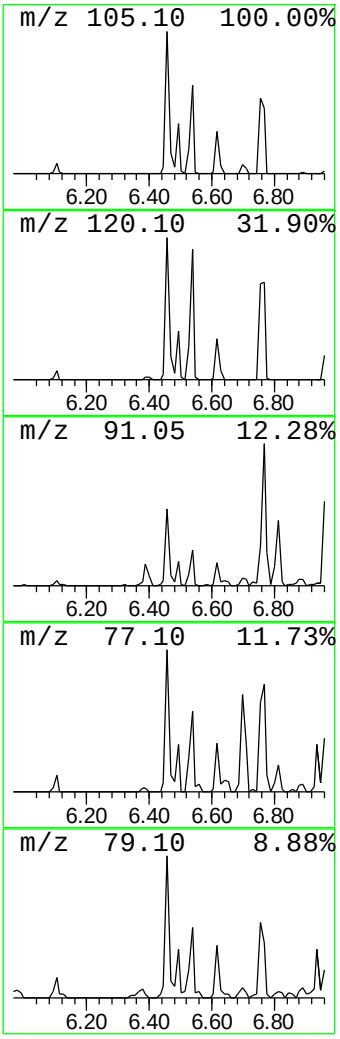
**********

Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.46 | 8.17 ng | 312382 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 3 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

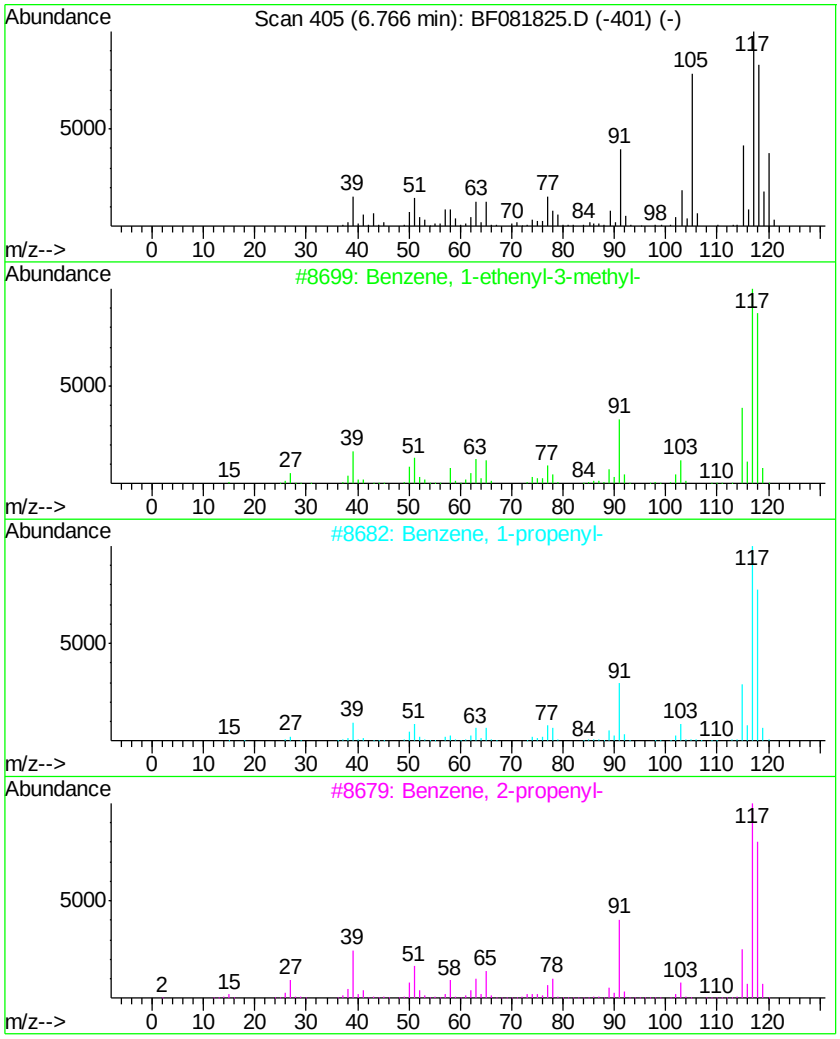
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

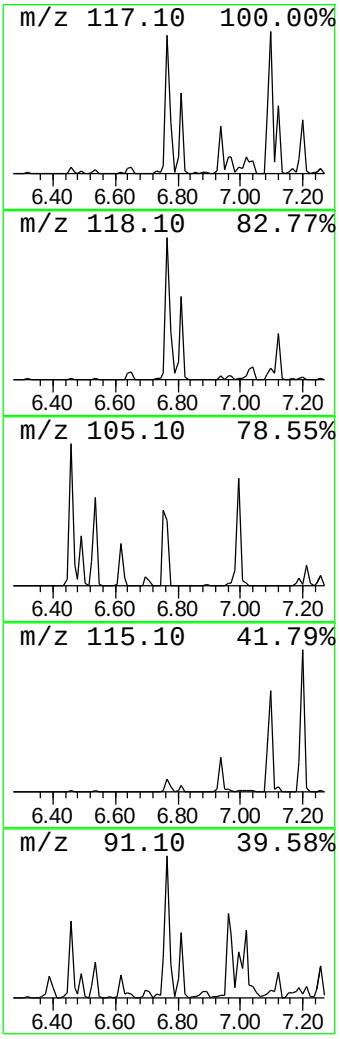
**********

Peak Number 7 Benzene, 1-ethenyl-3-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.77 | 17.41 ng | 665699 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 92 |
| 2 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 91 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 90 |
| 4 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 64 |
| 5 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

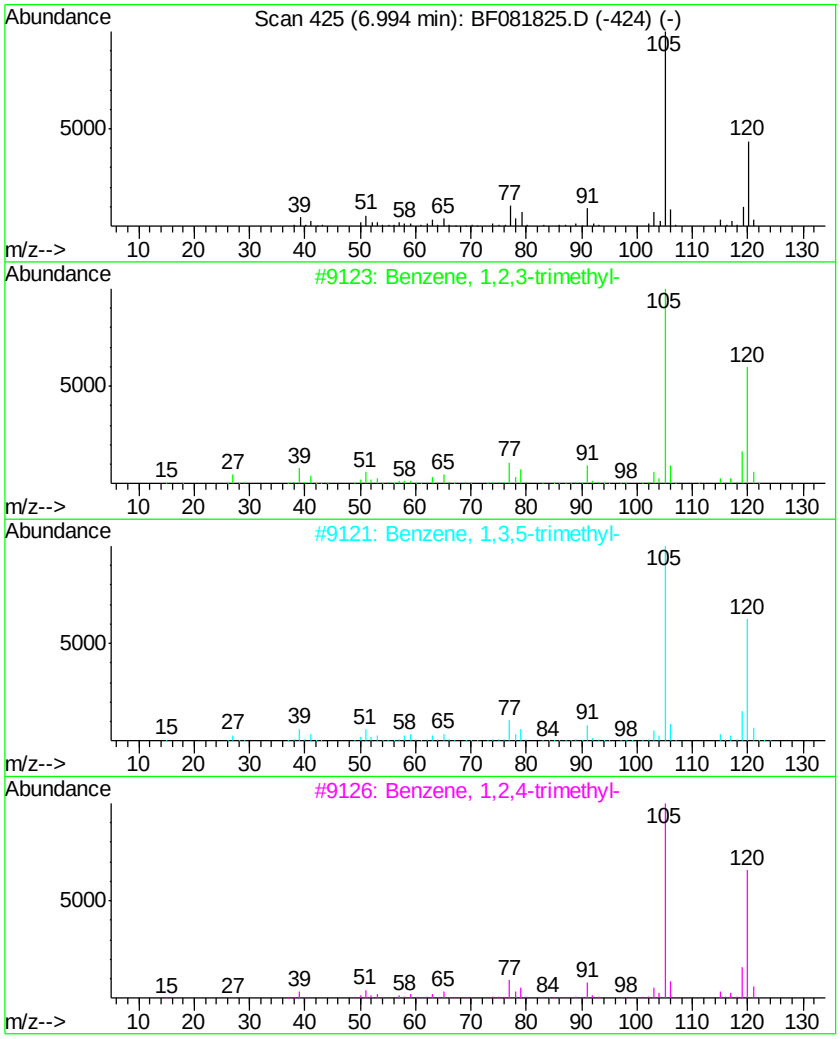
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

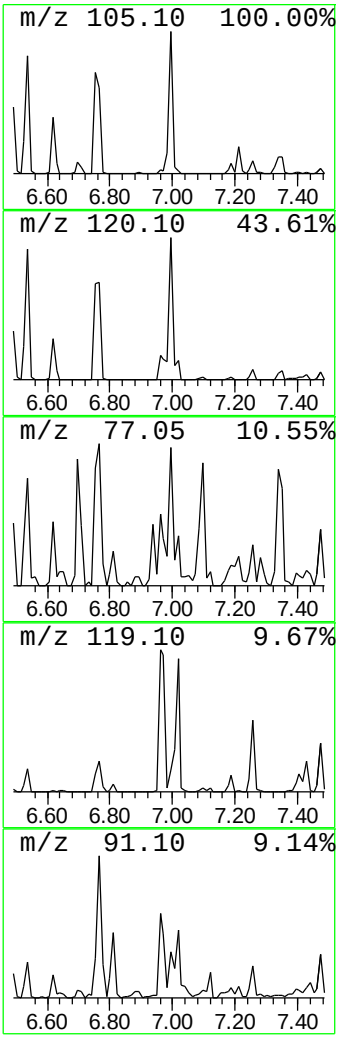
**********

Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.99 | 10.59 ng | 404899 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 94 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 87 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

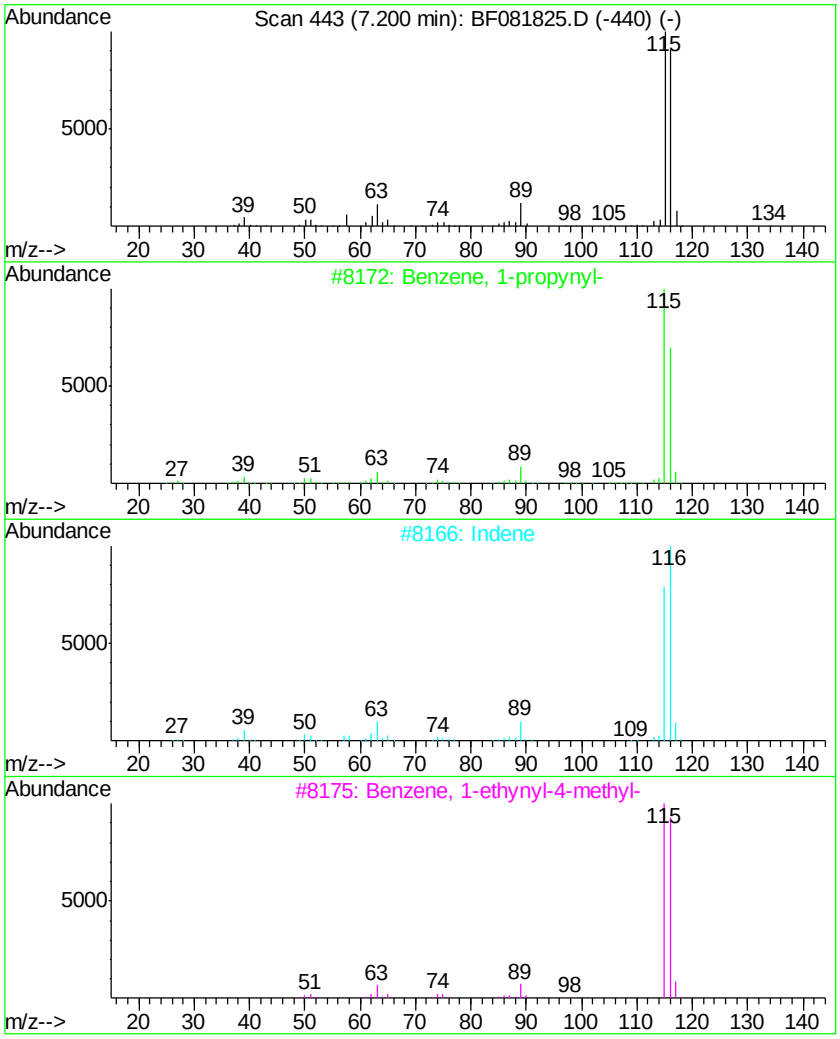
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

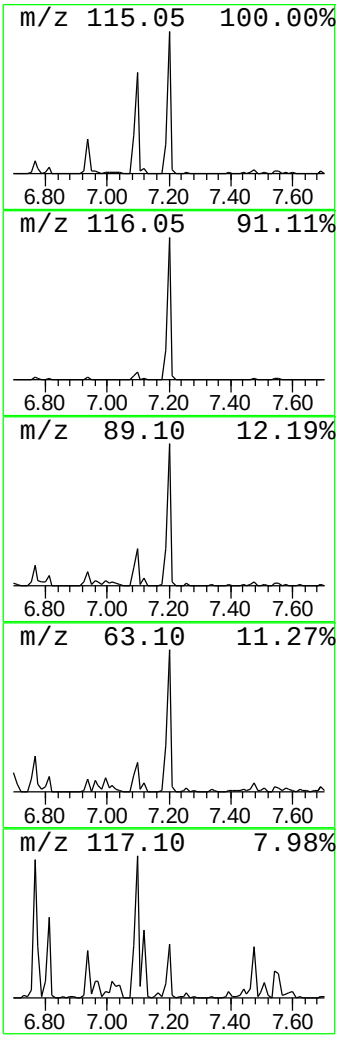
**********

Peak Number 10 Benzene, 1-propynyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.20 | 26.57 ng | 1015930 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 94 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 93 |
| 3 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 91 |
| 4 | Benzene,1-ethynyl-2-methyl- | 116 | C9H8 | 000766-47-2 | 91 |
| 5 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 90 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

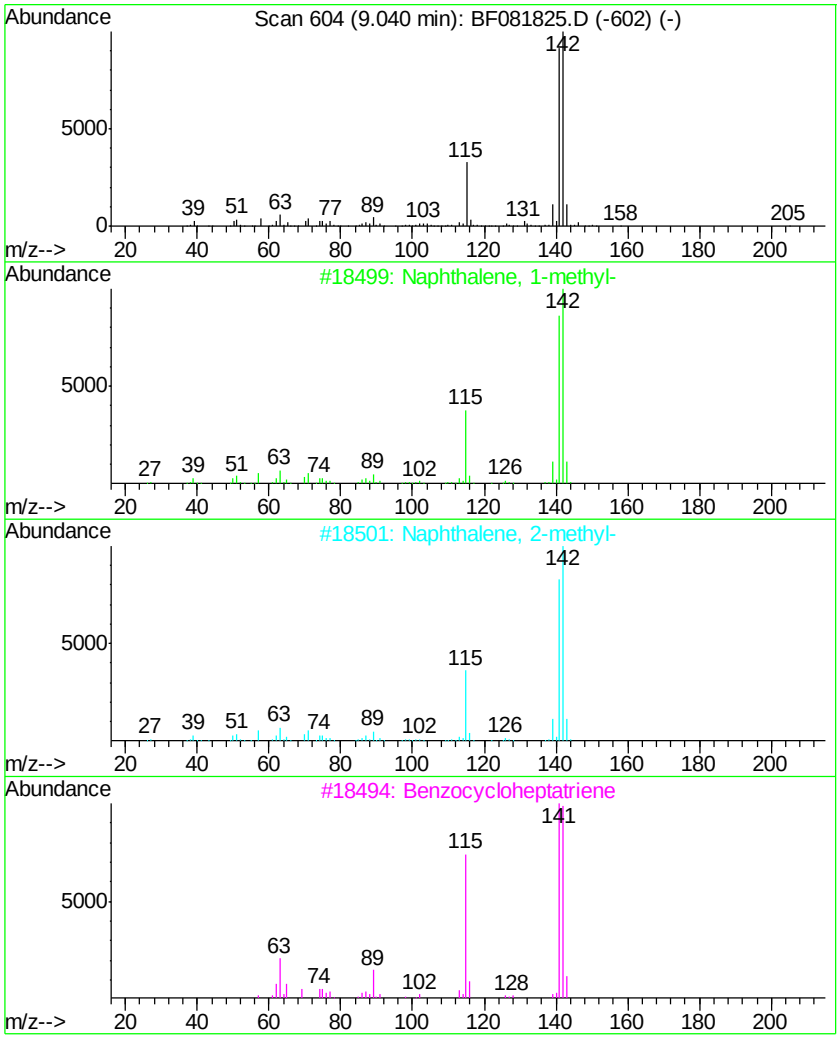
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

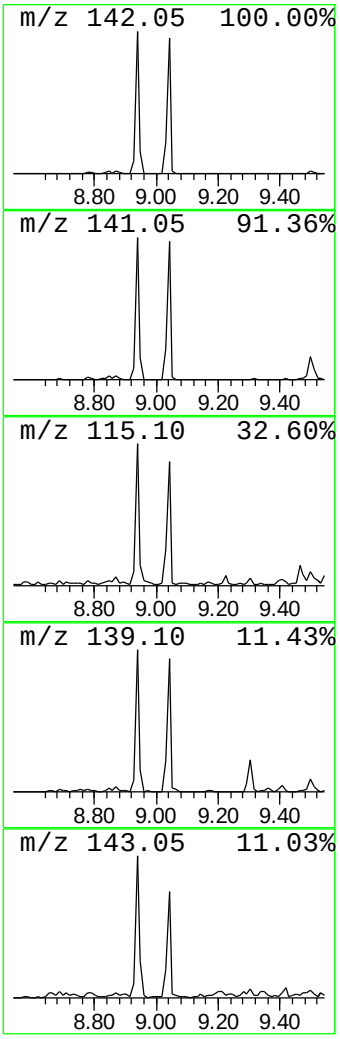
**********

Peak Number 11 Naphthalene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.04 | 5.36 ng | 1120180 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 87 |



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Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

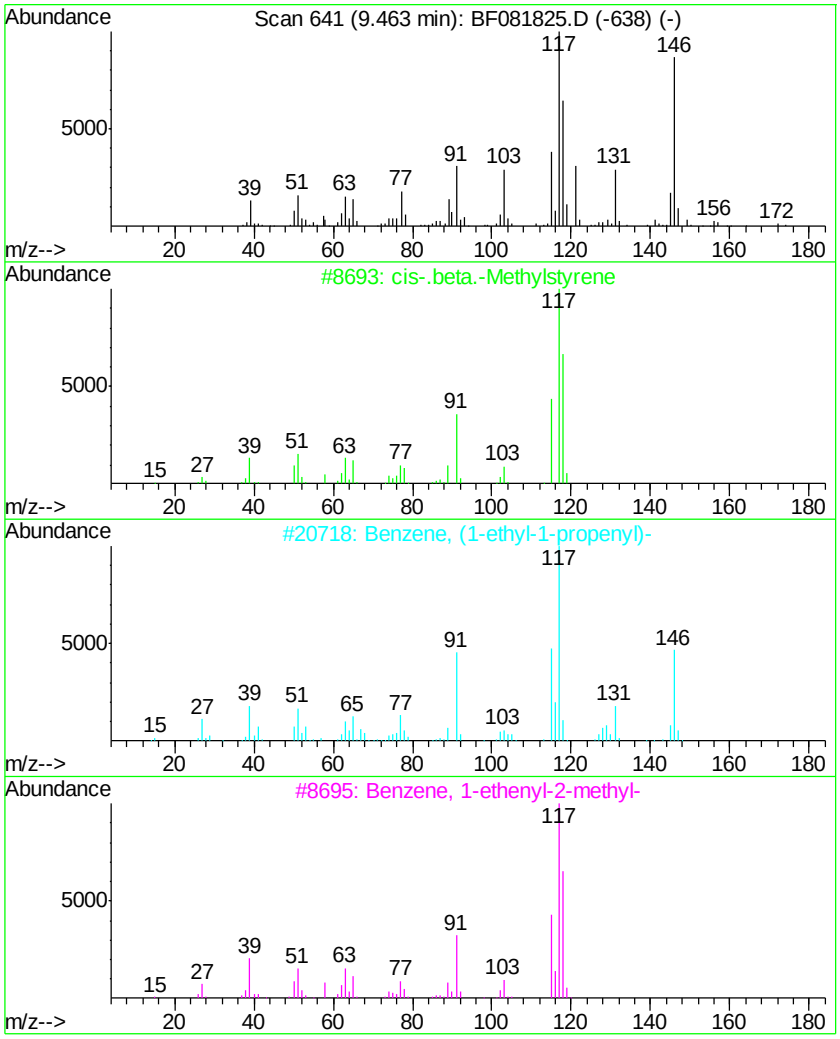
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

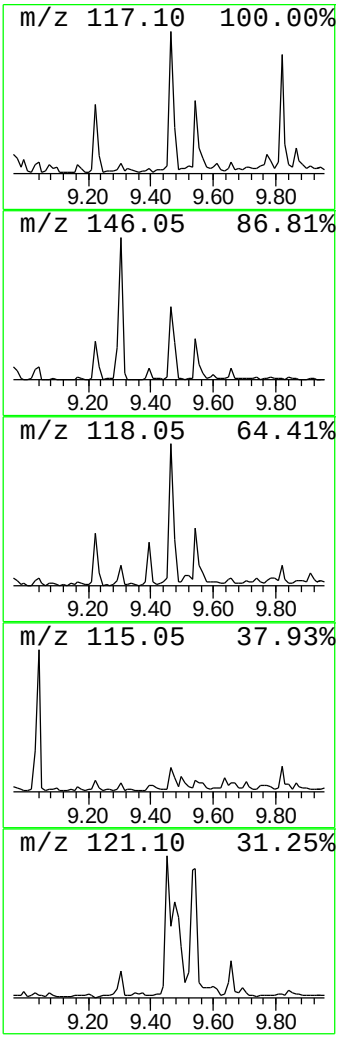
**********

Peak Number 12 cis-.beta.-Methylstyrene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.46 | 10.73 ng | 588857 | Acenaphthene-d10 | 9.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-.beta.-Methylstyrene | 118 | C9H10 | 000766-90-5 | 86 |
| 2 | Benzene, (1-ethyl-1-propenyl)- | 146 | C11H14 | 004701-36-4 | 76 |
| 3 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 64 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 62 |
| 5 | Benzene, 1-pentenyl- | 146 | C11H14 | 000826-18-6 | 58 |



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Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

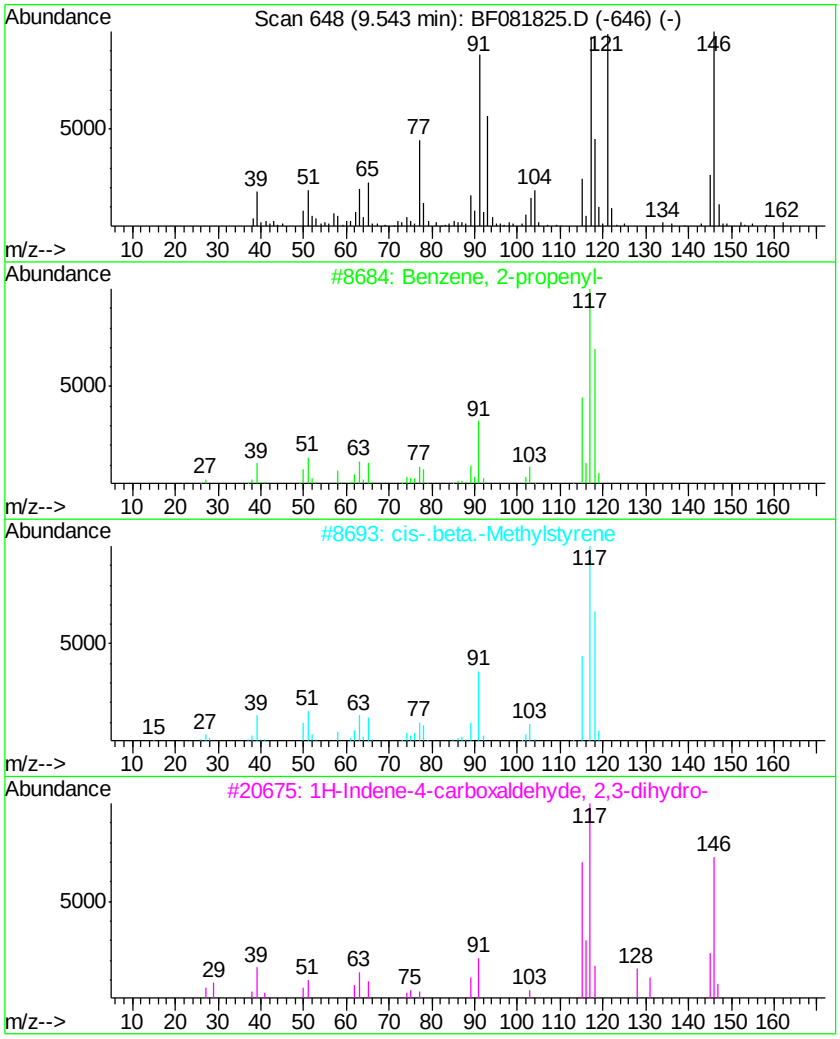
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

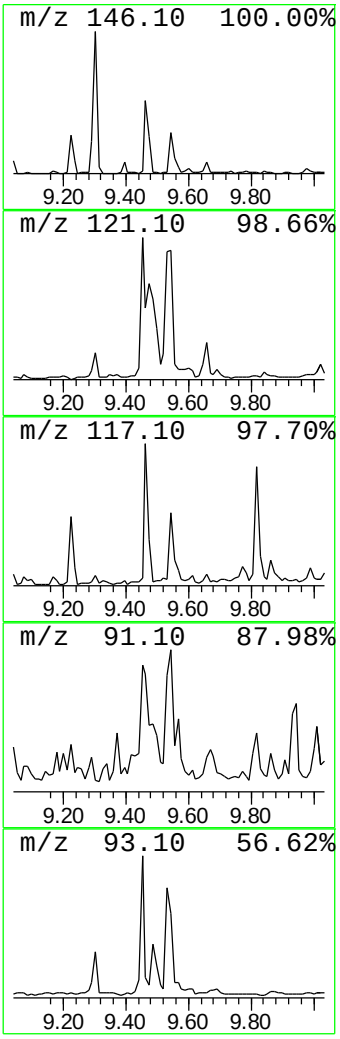
**********

Peak Number 13 unknown9.54 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.54 | 6.83 ng | 374865 | Acenaphthene-d10 | 9.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 43 |
| 2 | cis-.beta.-Methylstyrene | 118 | C9H10 | 000766-90-5 | 43 |
| 3 | 1H-Indene-4-carboxaldehyde, 2,3-... | 146 | C10H10O | 051932-70-8 | 38 |
| 4 | 7-Methylindan-1-one | 146 | C10H10O | 039627-61-7 | 38 |
| 5 | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 | C8H11BN2 | 074663-81-3 | 38 |



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Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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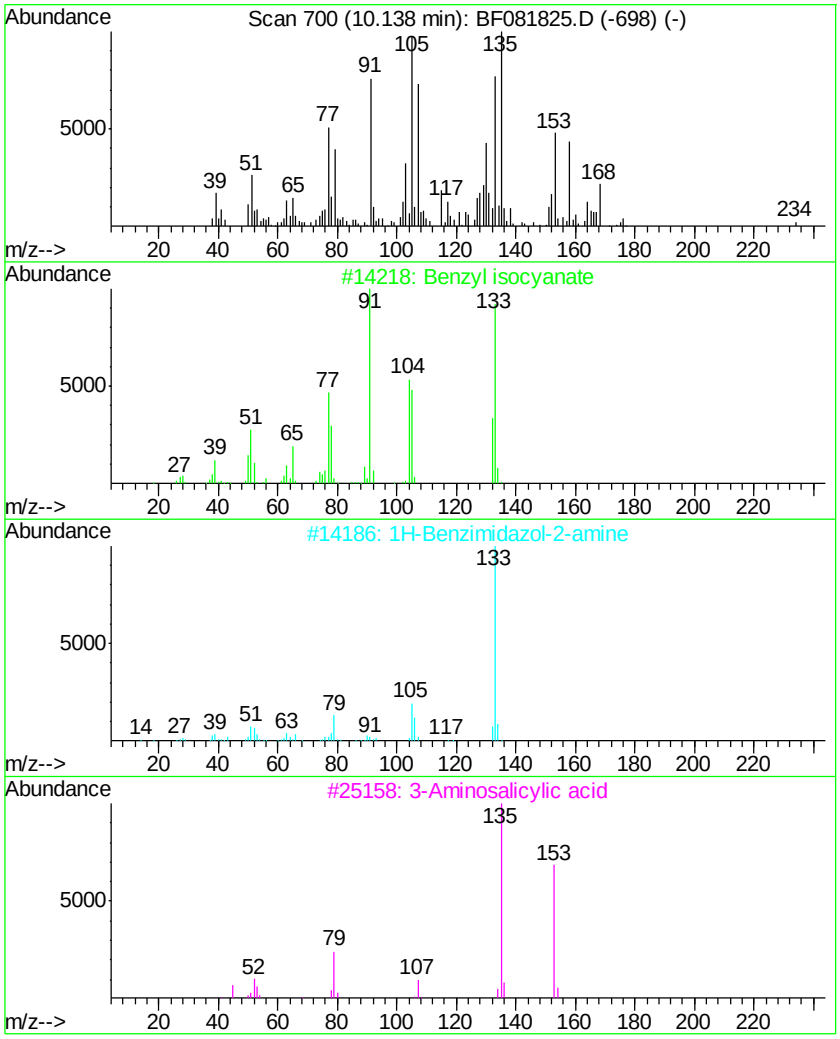
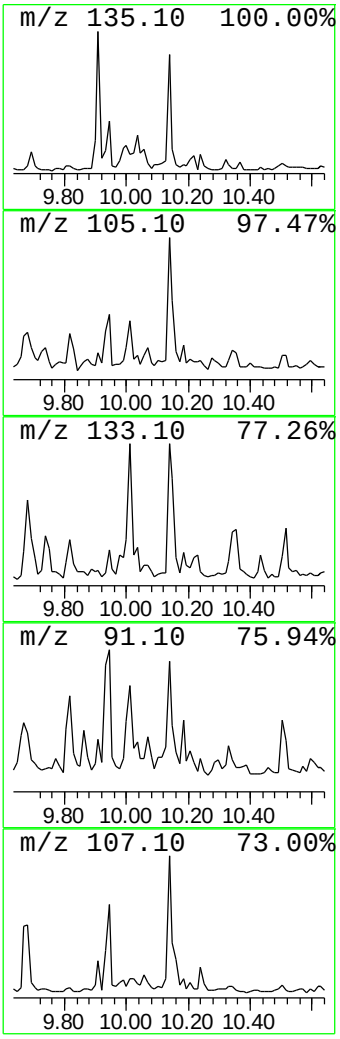
Peak Number 14 unknown10.14 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.14 | 6.13 ng | 336443 | Acenaphthene-d10 | 9.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzyl isocyanate | 133 | C8H7NO | 003173-56-6 | 25 |
| 2 | 1H-Benzimidazol-2-amine | 133 | C7H7N3 | 000934-32-7 | 20 |
| 3 | 3-Aminosalicylic acid | 153 | C7H7NO3 | 000570-23-0 | 18 |
| 4 | Aminosalicylic Acid | 153 | C7H7NO3 | 000065-49-6 | 18 |
| 5 | 1H-Indol-4-ol | 133 | C8H7NO | 002380-94-1 | 11 |



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Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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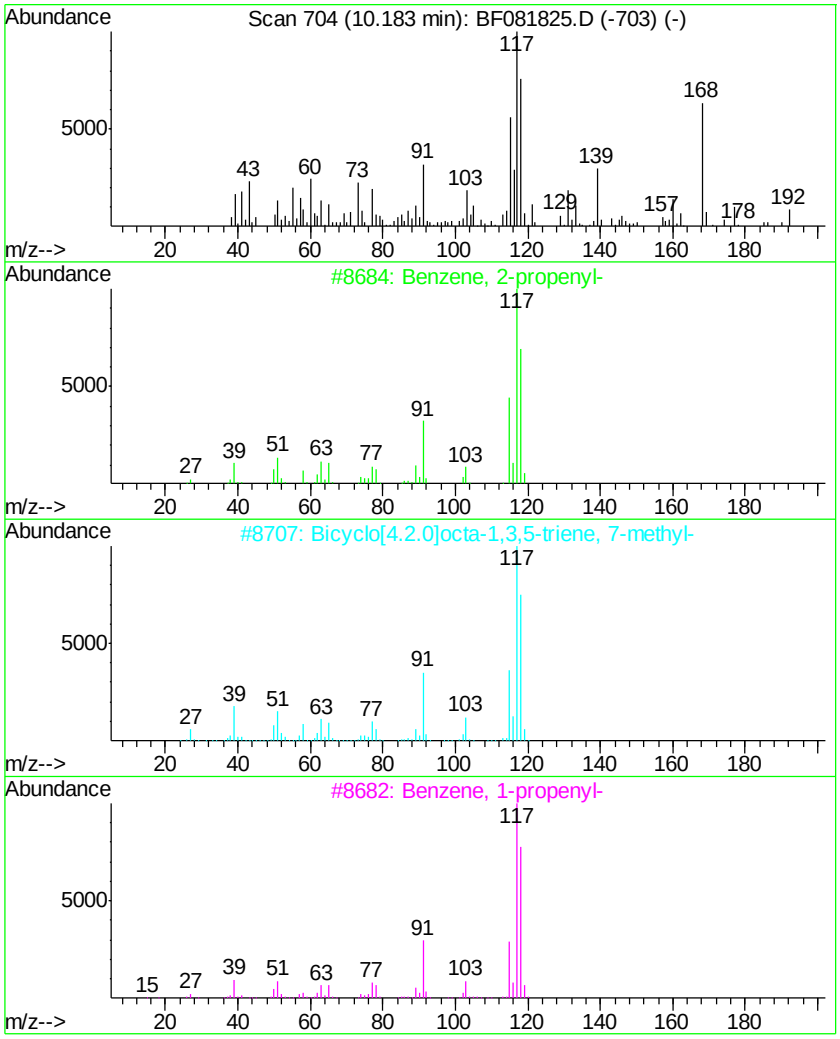
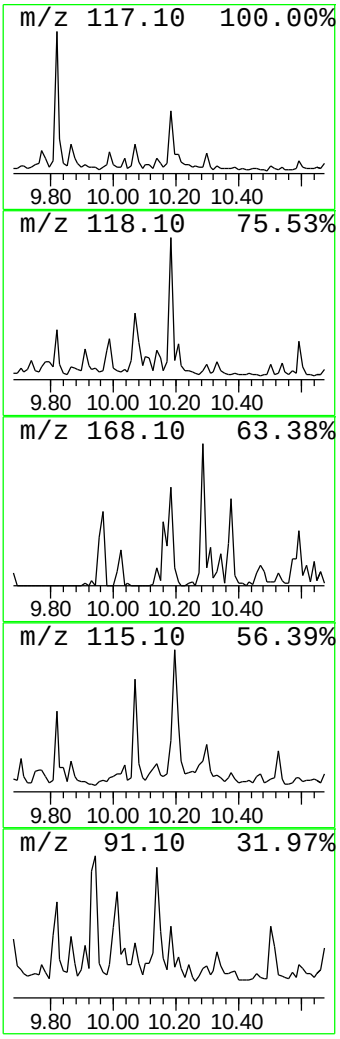
Peak Number 15 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.18 | 7.00 ng | 384375 | Acenaphthene-d10 | 9.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 86 |
| 2 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 055337-80-9 | 64 |
| 3 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 50 |
| 4 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 50 |
| 5 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 50 |



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Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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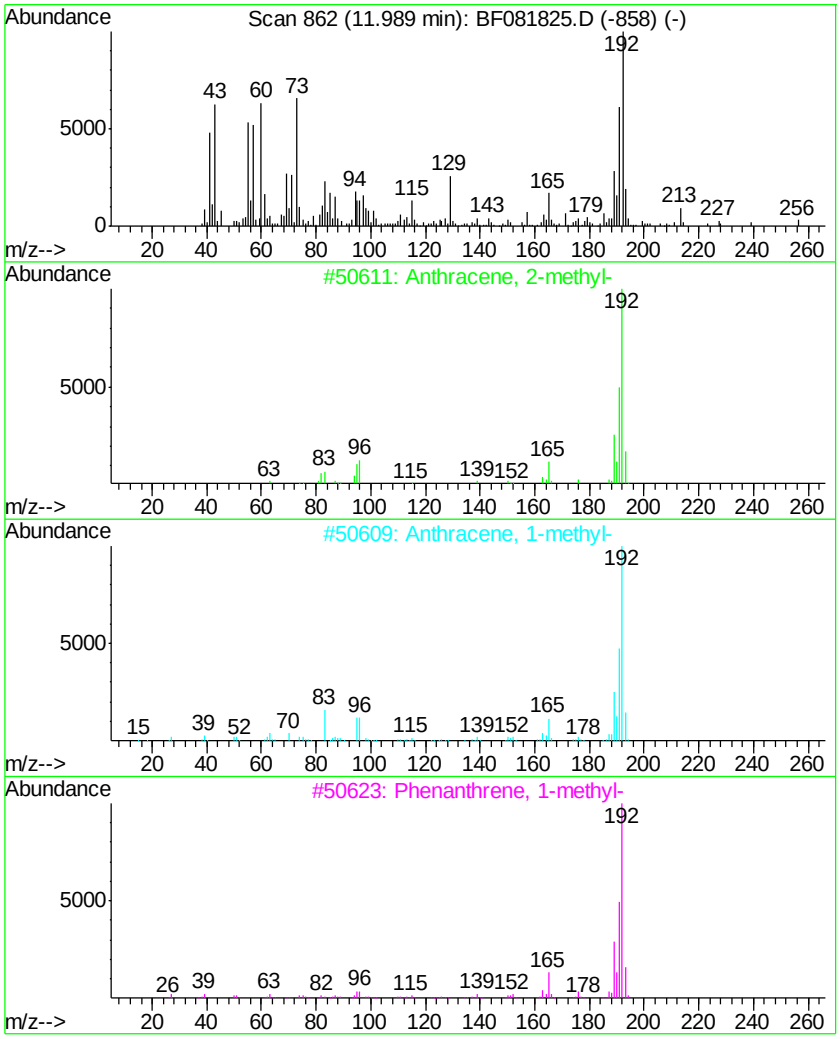
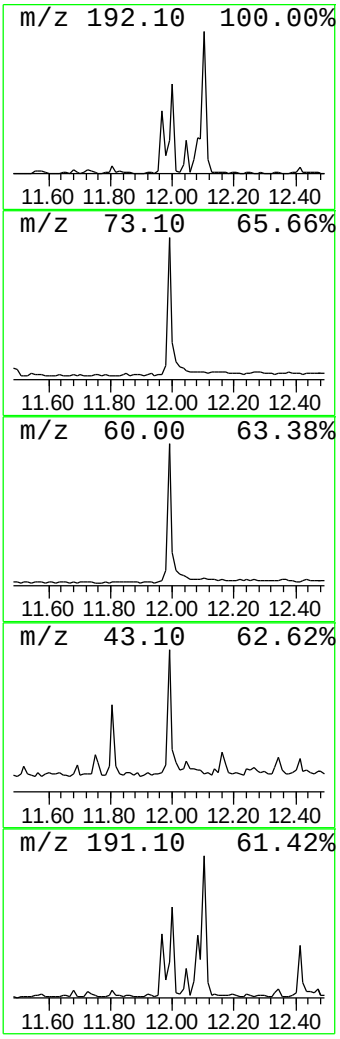
Peak Number 16 Anthracene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.99 | 12.22 ng | 590341 | Phenanthrene-d10 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 92 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 5 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91 |



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Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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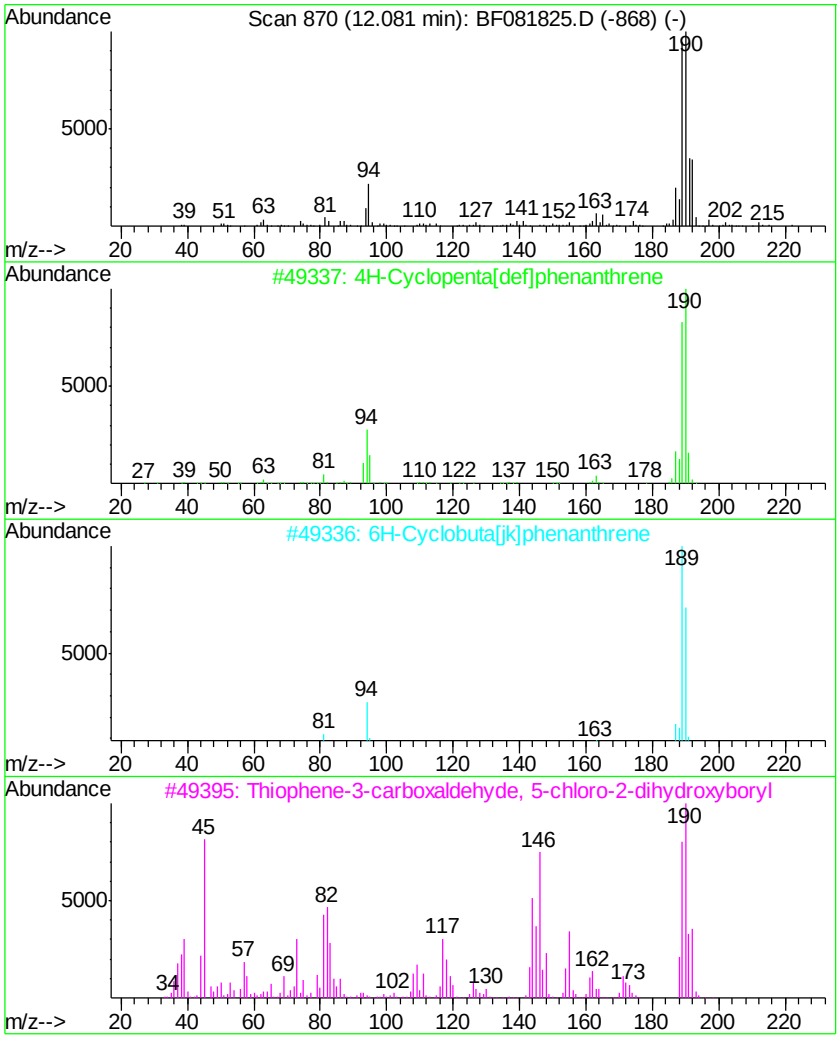
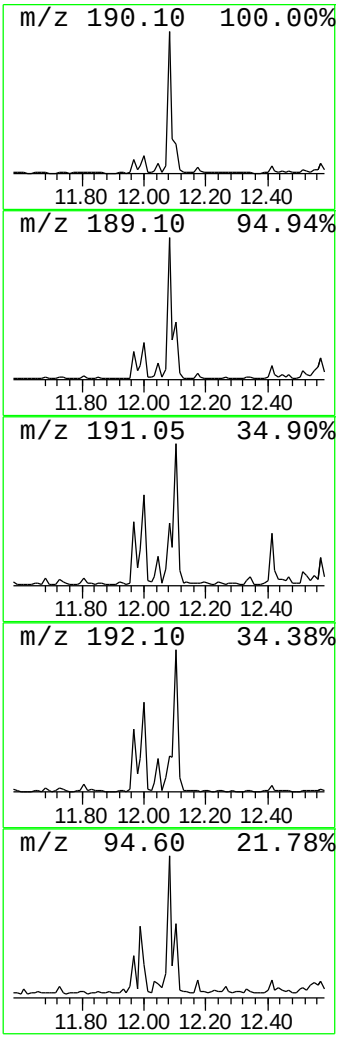
Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.08 | 12.48 ng | 602830 | Phenanthrene-d10 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 56 |
| 3 | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 53 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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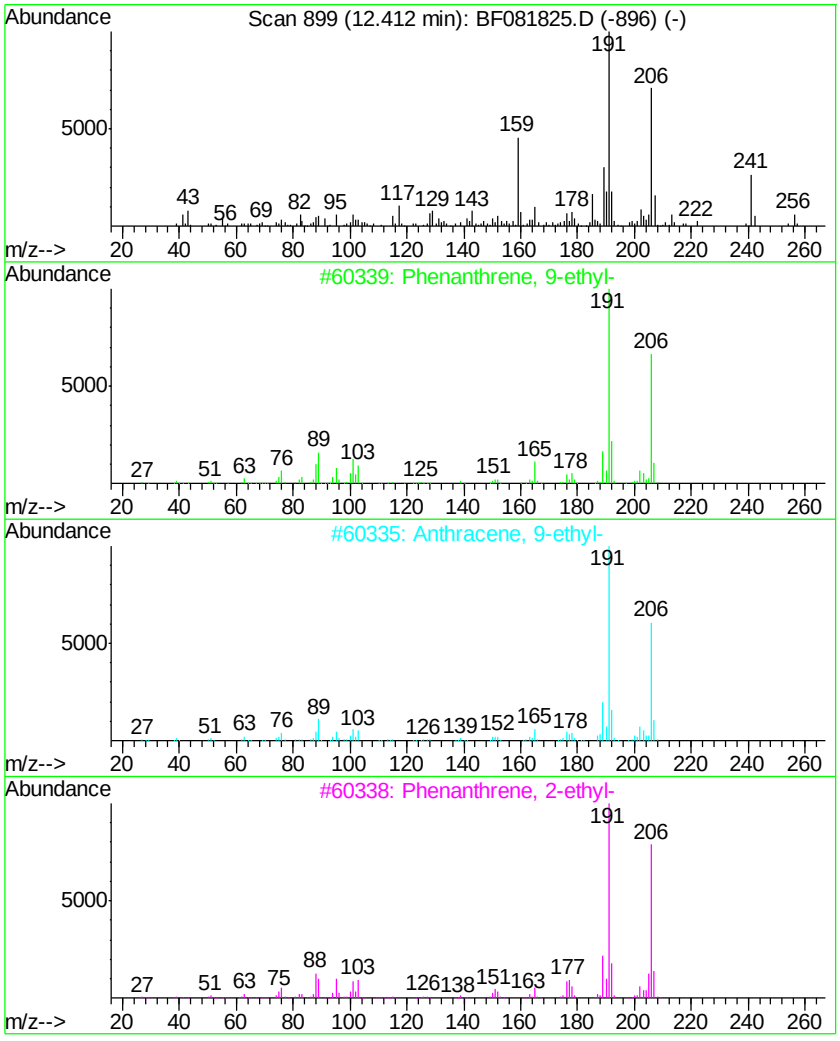
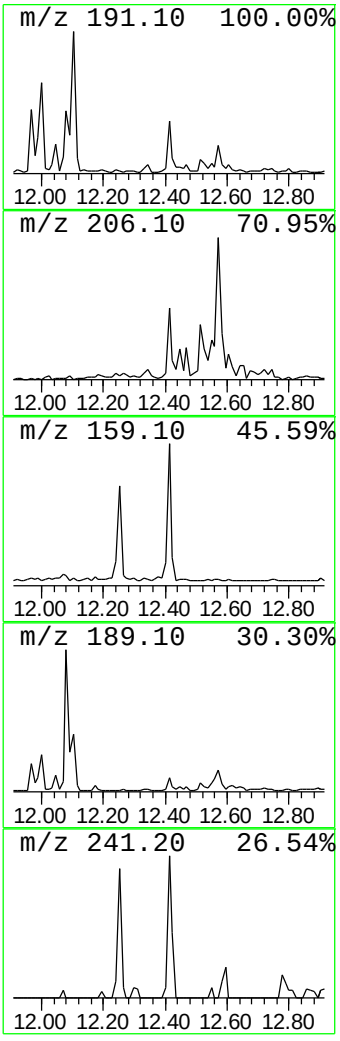
Peak Number 18 Phenanthrene, 9-ethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.41 | 5.11 ng | 246808 | Phenanthrene-d10 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 9-ethyl- | 206 | C16H14 | 003674-75-7 | 93 |
| 2 | Anthracene, 9-ethyl- | 206 | C16H14 | 000605-83-4 | 70 |
| 3 | Phenanthrene, 2-ethyl- | 206 | C16H14 | 003674-74-6 | 64 |
| 4 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 58 |
| 5 | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 58 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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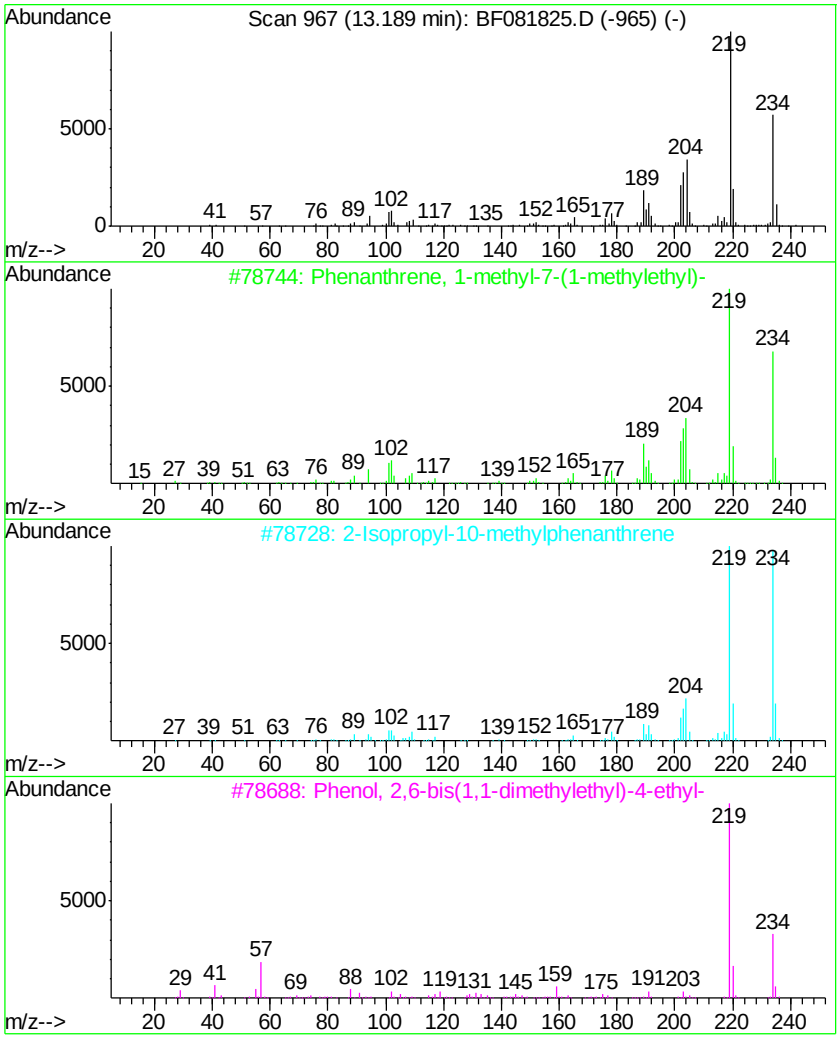
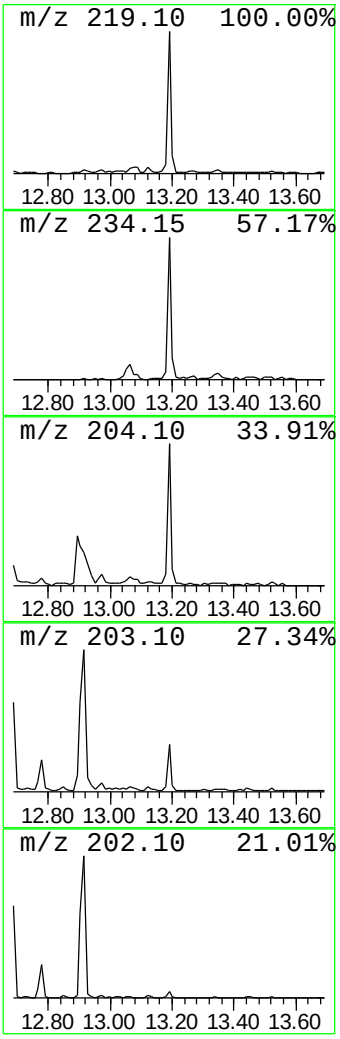
Peak Number 19 Phenanthrene, 1-methyl-7-(1... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.19 | 5.04 ng | 299333 | Chrysene-d12 | 14.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl-7-(1-meth... | 234 | C18H18 | 000483-65-8 | 95 |
| 2 | 2-Isopropyl-10-methylphenanthrene | 234 | C18H18 | 066552-97-4 | 95 |
| 3 | Phenol, 2,6-bis(1,1-dimethylethy... | 234 | C16H26O | 004130-42-1 | 52 |
| 4 | Benzene, 1,3-bis(1,1-dimethyleth... | 234 | C16H26O | 001518-53-2 | 52 |
| 5 | Ethanone, 1-(4,6-dihydroxy-2,3,5... | 234 | C13H14O4 | 021987-07-5 | 47 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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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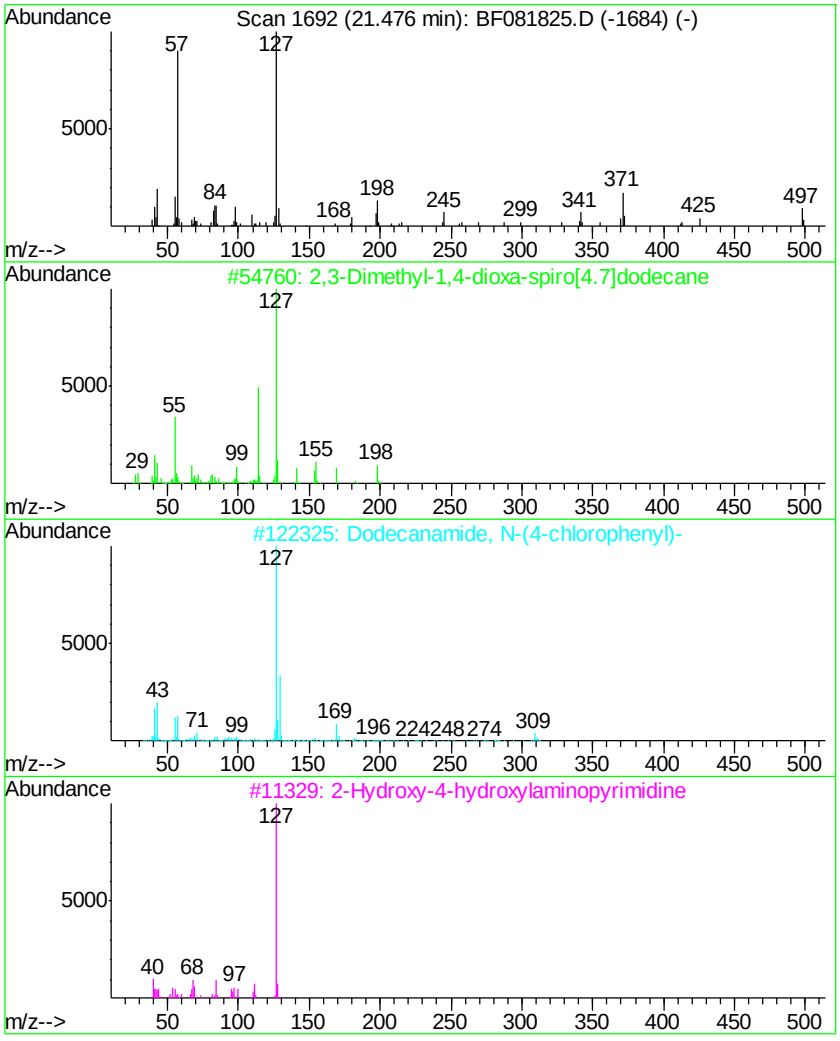
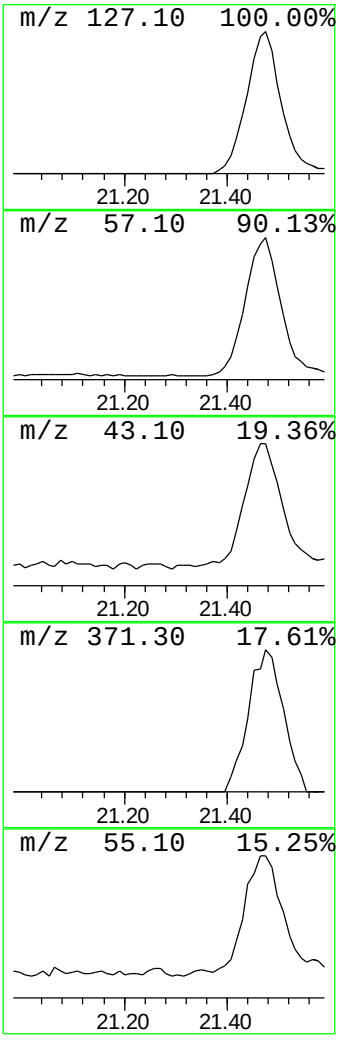
Peak Number 20 2,3-Dimethyl-1,4-dioxa-spir... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.48 | 12.19 ng | 431960 | Perylene-d12 | 15.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,3-Dimethyl-1,4-dioxa-spiro[4.7... | 198 | C12H22O2 | 062406-91-1 | 50 |
| 2 | Dodecanamide, N-(4-chlorophenyl)- | 309 | C18H28ClNO | 099002-89-8 | 47 |
| 3 | 2-Hydroxy-4-hydroxylaminopyrimidine | 127 | C4H5N3O2 | 020555-88-8 | 47 |
| 4 | 1H-Imidazole, 4-methyl-5-nitro- | 127 | C4H5N3O2 | 014003-66-8 | 47 |
| 5 | Propylphosphonic acid, fluoroanh... | 224 | C10H22FO2P | 333416-19-6 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092615\
Data File : BF081825.D
Acq On : 26 Sep 2015 13:53
Operator : UM/IZ
Sample : G3754-04
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-6B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.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... | 5.14 | 43.9 | ng | 1678090 | 1 | 6.94 | 764850 | 20.0 |
| Benzene, 1-ethyl-... | 6.46 | 8.2 | ng | 312382 | 1 | 6.94 | 764850 | 20.0 |
| Benzene, 1-etheny... | 6.77 | 17.4 | ng | 665699 | 1 | 6.94 | 764850 | 20.0 |
| Benzene, 1,2,3-tr... | 6.99 | 10.6 | ng | 404899 | 1 | 6.94 | 764850 | 20.0 |
| Benzene, 1-propynyl- | 7.20 | 26.6 | ng | 1015930 | 1 | 6.94 | 764850 | 20.0 |
| Naphthalene, 1-me... | 9.04 | 5.4 | ng | 1120180 | 2 | 8.23 | 4181730 | 20.0 |
| cis-.beta.-Methyl... | 9.46 | 10.7 | ng | 588857 | 3 | 9.98 | 1098000 | 20.0 |
| unknown9.54 | 9.54 | 6.8 | ng | 374865 | 3 | 9.98 | 1098000 | 20.0 |
| unknown10.14 | 10.14 | 6.1 | ng | 336443 | 3 | 9.98 | 1098000 | 20.0 |
| Bicyclo[4.2.0]oct... | 10.18 | 7.0 | ng | 384375 | 3 | 9.98 | 1098000 | 20.0 |
| Anthracene, 2-met... | 11.99 | 12.2 | ng | 590341 | 4 | 11.47 | 966168 | 20.0 |
| 4H-Cyclopenta[def... | 12.08 | 12.5 | ng | 602830 | 4 | 11.47 | 966168 | 20.0 |
| Phenanthrene, 9-e... | 12.41 | 5.1 | ng | 246808 | 4 | 11.47 | 966168 | 20.0 |
| Phenanthrene, 1-m... | 13.19 | 5.0 | ng | 299333 | 5 | 14.10 | 1187480 | 20.0 |
| 2,3-Dimethyl-1,4-... | 21.48 | 12.2 | ng | 431960 | 6 | 15.58 | 708581 | 20.0 |