

3.4.5 Measured Channel Edge Result_CDD mode

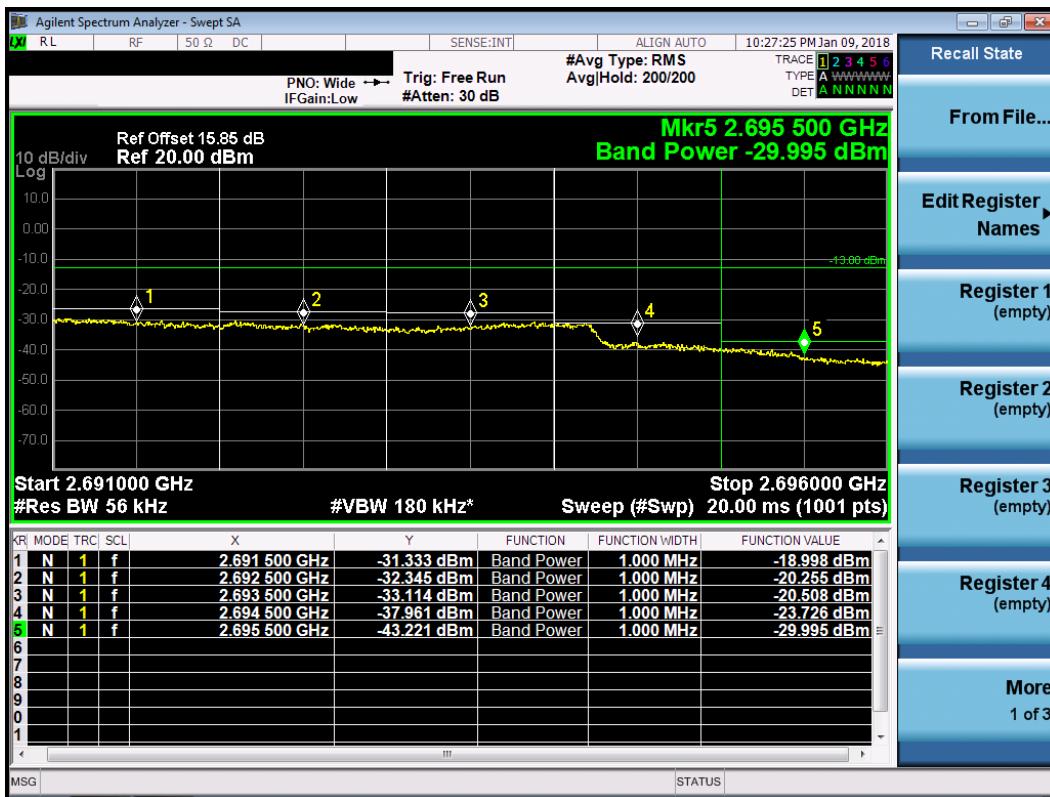
LTE Band 41, CB: 5MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2621.3 | 1 | 0 | 2617.8~2616.8 | -33.697 | -33.141 | -32.035 | -32.832 | -26.86 | -13.00 |
| | | | | 2616.8~2615.8 | -41.419 | -41.102 | -40.447 | -40.894 | -34.93 | -13.00 |
| | | | | 2615.8~2614.8 | -40.246 | -40.019 | -30.956 | -32.297 | -28.00 | -13.00 |
| | | | | 2614.8~2613.8 | -41.460 | -41.286 | -32.212 | -33.518 | -29.24 | -13.00 |
| | | | | 2613.8~2612.8 | -45.009 | -44.823 | -44.728 | -44.975 | -38.86 | -13.00 |
| | 2621.3 | 25 | 0 | 2617.8~2616.8 | -21.437 | -21.669 | -18.544 | -21.066 | -14.46 | -13.00 |
| | | | | 2616.8~2615.8 | -23.758 | -23.556 | -21.075 | -23.722 | -16.85 | -13.00 |
| | | | | 2615.8~2614.8 | -27.011 | -27.500 | -25.092 | -27.607 | -20.66 | -13.00 |
| | | | | 2614.8~2613.8 | -30.956 | -31.981 | -30.175 | -32.410 | -25.27 | -13.00 |
| | | | | 2613.8~2612.8 | -35.725 | -35.344 | -35.704 | -35.910 | -29.65 | -13.00 |
| | 2687.5 | 1 | 24 | 2691~2692 | -33.792 | -33.641 | -31.112 | -31.179 | -26.22 | -13.00 |
| | | | | 2692~2693 | -41.176 | -40.823 | -39.728 | -39.209 | -34.14 | -13.00 |
| | | | | 2693~2694 | -41.014 | -40.549 | -31.005 | -30.040 | -27.10 | -13.00 |
| | | | | 2694~2695 | -42.171 | -41.689 | -32.394 | -31.221 | -28.36 | -13.00 |
| | | | | 2695~2696 | -44.788 | -44.753 | -44.693 | -44.500 | -38.66 | -13.00 |
| | 2687.5 | 25 | 0 | 2691~2692 | -22.990 | -22.082 | -18.998 | -19.315 | -14.50 | -13.00 |
| | | | | 2692~2693 | -24.201 | -24.418 | -20.255 | -21.197 | -16.12 | -13.00 |
| | | | | 2693~2694 | -23.920 | -26.247 | -20.508 | -22.177 | -16.70 | -13.00 |
| | | | | 2694~2695 | -26.645 | -28.037 | -23.726 | -24.834 | -19.48 | -13.00 |
| | | | | 2695~2696 | -31.990 | -31.420 | -29.995 | -28.889 | -24.38 | -13.00 |

Worst Plot of QPSK, Low Channel



Worst Plot of QPSK, High Channel

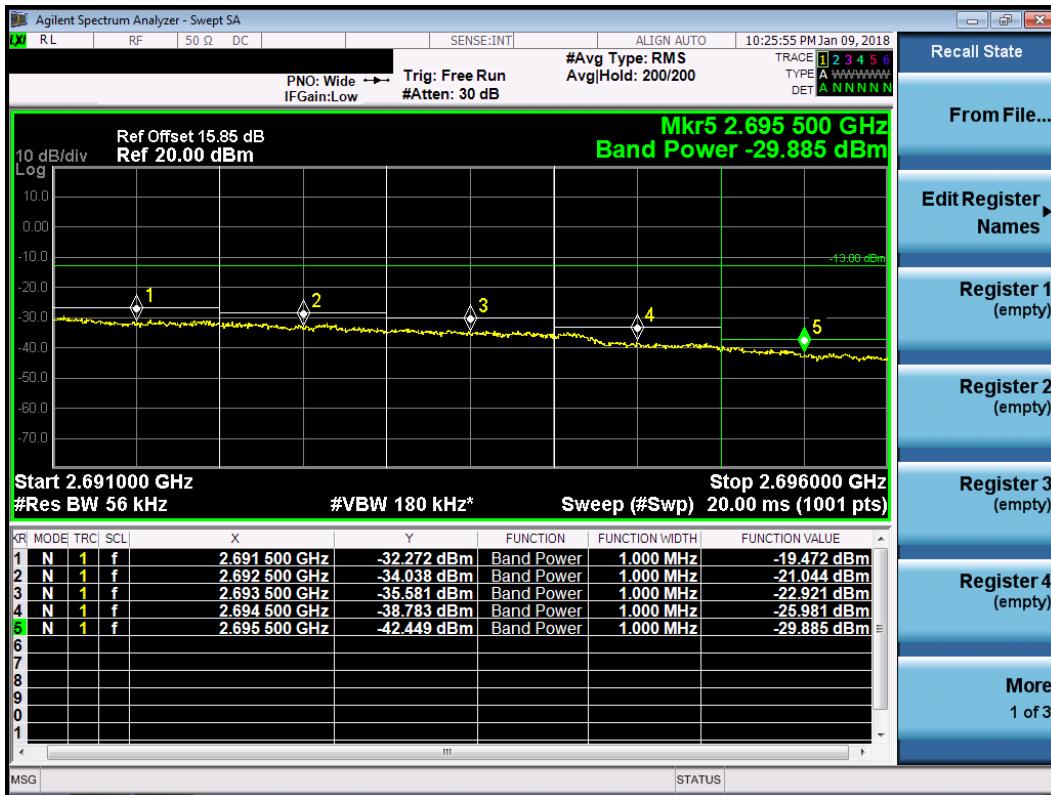


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2621.3 | 1 | 0 | 2617.8~2616.8 | -33.542 | -33.726 | -32.386 | -33.115 | -27.14 | -13.00 |
| | | | | 2616.8~2615.8 | -41.189 | -41.259 | -40.513 | -41.011 | -34.96 | -13.00 |
| | | | | 2615.8~2614.8 | -39.941 | -40.465 | -31.794 | -33.038 | -28.70 | -13.00 |
| | | | | 2614.8~2613.8 | -41.206 | -41.714 | -32.881 | -33.916 | -29.73 | -13.00 |
| | | | | 2613.8~2612.8 | -45.001 | -44.871 | -44.763 | -45.080 | -38.91 | -13.00 |
| | 2621.3 | 25 | 0 | 2617.8~2616.8 | -22.736 | -23.850 | -21.257 | -24.169 | -16.83 | -13.00 |
| | | | | 2616.8~2615.8 | -25.641 | -26.755 | -24.059 | -27.165 | -19.71 | -13.00 |
| | | | | 2615.8~2614.8 | -29.114 | -30.640 | -28.098 | -31.121 | -23.55 | -13.00 |
| | | | | 2614.8~2613.8 | -33.020 | -35.225 | -33.017 | -35.227 | -27.96 | -13.00 |
| | | | | 2613.8~2612.8 | -35.865 | -37.112 | -36.321 | -37.173 | -30.56 | -13.00 |
| | 2687.5 | 1 | 24 | 2691~2692 | -34.394 | -34.113 | -32.020 | -31.983 | -26.96 | -13.00 |
| | | | | 2692~2693 | -41.489 | -41.176 | -40.227 | -39.797 | -34.60 | -13.00 |
| | | | | 2693~2694 | -41.115 | -41.024 | -32.201 | -30.959 | -28.07 | -13.00 |
| | | | | 2694~2695 | -42.227 | -42.154 | -33.165 | -32.000 | -29.09 | -13.00 |
| | | | | 2695~2696 | -44.839 | -44.817 | -44.745 | -44.651 | -38.74 | -13.00 |
| | 2687.5 | 25 | 0 | 2691~2692 | -22.846 | -22.145 | -19.472 | -20.236 | -14.94 | -13.00 |
| | | | | 2692~2693 | -24.236 | -24.309 | -21.044 | -22.054 | -16.66 | -13.00 |
| | | | | 2693~2694 | -25.680 | -26.687 | -22.921 | -23.832 | -18.51 | -13.00 |
| | | | | 2694~2695 | -28.362 | -29.736 | -25.981 | -26.593 | -21.41 | -13.00 |
| | | | | 2695~2696 | -32.145 | -32.610 | -29.885 | -29.772 | -24.90 | -13.00 |

Worst Plot of 16QAM, Low Channel



Worst Plot of 16QAM, High Channel

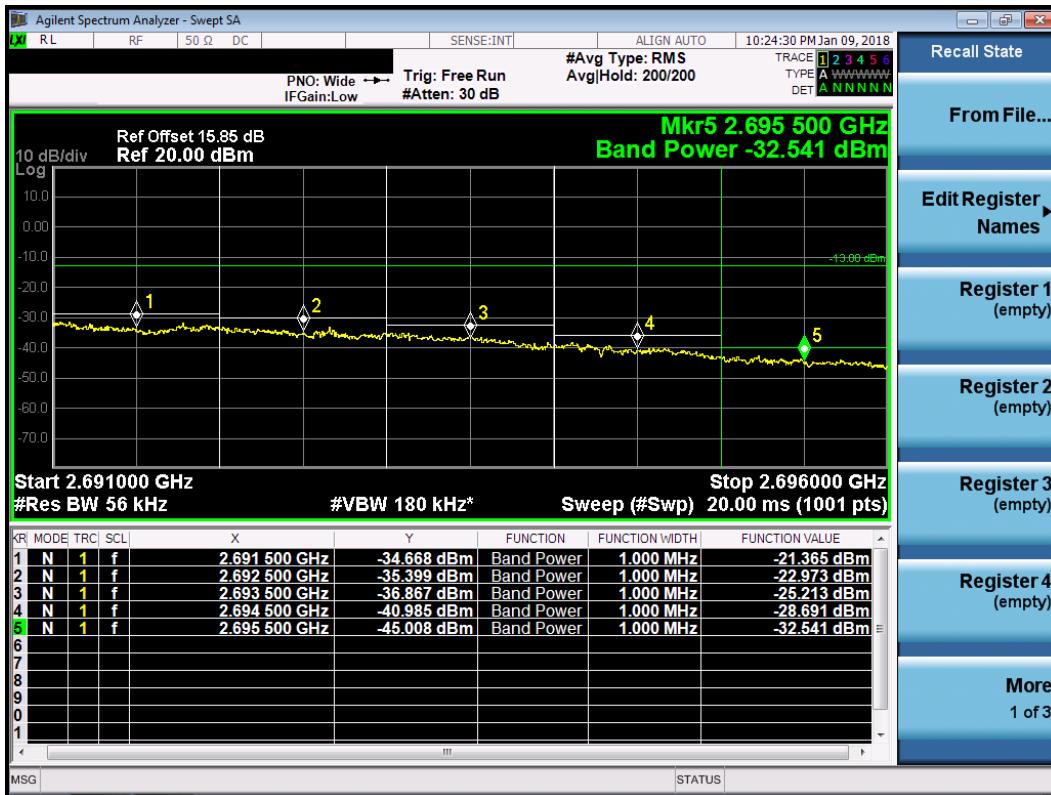


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2621.3 | 1 | 0 | 2617.8~2616.8 | -38.140 | -38.113 | -38.986 | -39.373 | -32.60 | -13.00 |
| | | | | 2616.8~2615.8 | -43.046 | -42.890 | -43.141 | -43.288 | -37.07 | -13.00 |
| | | | | 2615.8~2614.8 | -42.039 | -41.859 | -33.928 | -35.897 | -31.03 | -13.00 |
| | | | | 2614.8~2613.8 | -42.668 | -42.484 | -34.597 | -36.457 | -31.65 | -13.00 |
| | | | | 2613.8~2612.8 | -45.305 | -45.217 | -45.171 | -45.317 | -39.23 | -13.00 |
| | 2621.3 | 25 | 0 | 2617.8~2616.8 | -26.204 | -26.745 | -25.986 | -28.171 | -20.68 | -13.00 |
| | | | | 2616.8~2615.8 | -28.609 | -29.366 | -28.790 | -30.998 | -23.32 | -13.00 |
| | | | | 2615.8~2614.8 | -31.632 | -33.076 | -32.279 | -34.420 | -26.71 | -13.00 |
| | | | | 2614.8~2613.8 | -34.807 | -36.688 | -35.890 | -36.827 | -29.96 | -13.00 |
| | | | | 2613.8~2612.8 | -36.736 | -37.887 | -37.750 | -38.035 | -31.55 | -13.00 |
| | 2687.5 | 1 | 24 | 2691~2692 | -38.077 | -37.752 | -35.652 | -35.714 | -30.64 | -13.00 |
| | | | | 2692~2693 | -42.909 | -42.396 | -41.998 | -41.683 | -36.20 | -13.00 |
| | | | | 2693~2694 | -42.932 | -42.862 | -35.486 | -34.216 | -31.17 | -13.00 |
| | | | | 2694~2695 | -43.693 | -43.569 | -36.193 | -34.853 | -31.84 | -13.00 |
| | | | | 2695~2696 | -44.982 | -44.921 | -45.027 | -45.031 | -38.97 | -13.00 |
| | 2687.5 | 25 | 0 | 2691~2692 | -24.175 | -23.775 | -21.365 | -22.599 | -16.82 | -13.00 |
| | | | | 2692~2693 | -25.710 | -26.165 | -22.973 | -24.533 | -18.64 | -13.00 |
| | | | | 2693~2694 | -27.653 | -28.766 | -25.231 | -26.617 | -20.85 | -13.00 |
| | | | | 2694~2695 | -30.740 | -32.055 | -28.691 | -29.580 | -24.07 | -13.00 |
| | | | | 2695~2696 | -33.936 | -34.326 | -32.541 | -32.297 | -27.17 | -13.00 |

Worst Plot of 64QAM, Low Channel



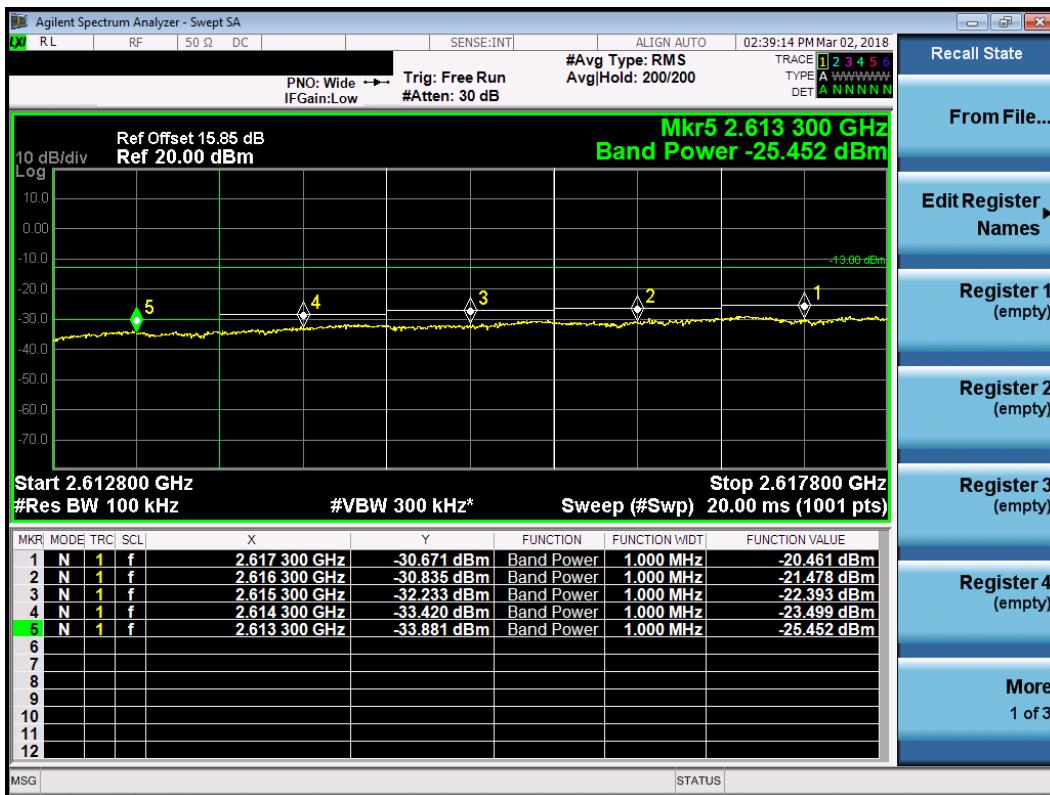
Worst Plot of 64QAM, High Channel



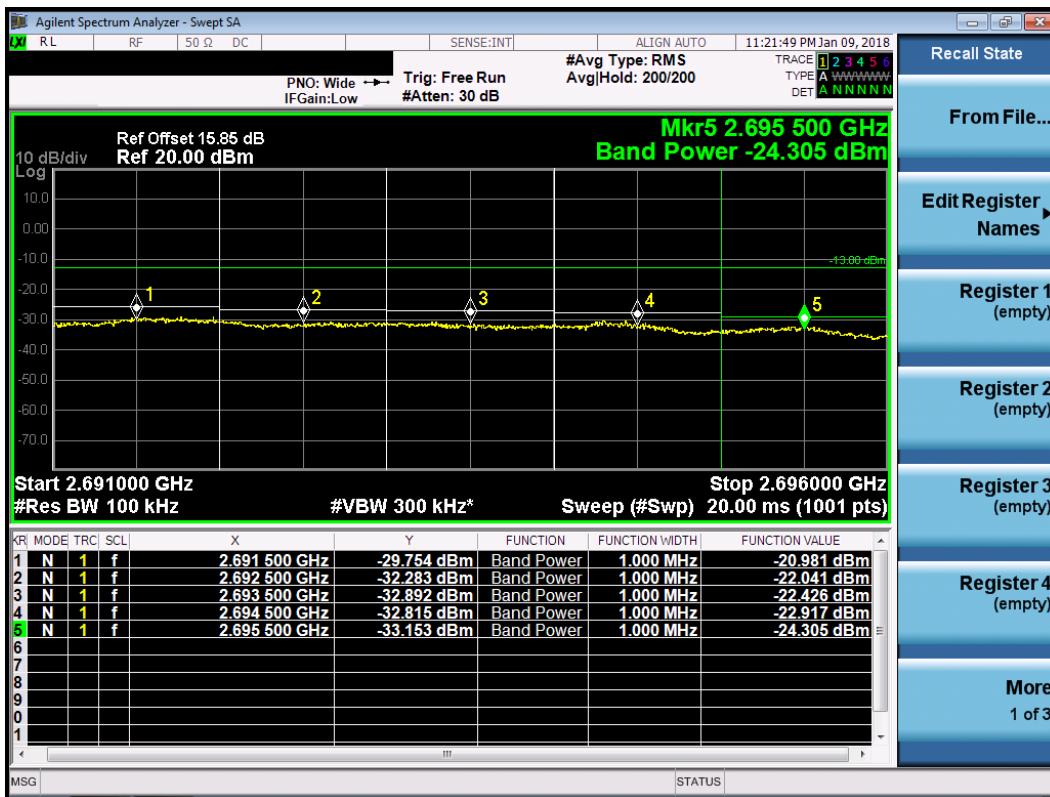
LTE Band 41, CB: 10MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2623.8 | 1 | 0 | 2617.8~2616.8 | -32.948 | -32.358 | -32.122 | -32.703 | -26.50 | -13.00 |
| | | | | 2616.8~2615.8 | -39.241 | -38.763 | -38.360 | -38.845 | -32.77 | -13.00 |
| | | | | 2615.8~2614.8 | -38.750 | -37.340 | -39.947 | -39.811 | -32.81 | -13.00 |
| | | | | 2614.8~2613.8 | -43.530 | -42.993 | -43.381 | -43.612 | -37.35 | -13.00 |
| | | | | 2613.8~2612.8 | -44.635 | -44.368 | -44.445 | -44.668 | -38.51 | -13.00 |
| | 2623.8 | 50 | 0 | 2617.8~2616.8 | -23.319 | -23.244 | -20.461 | -23.399 | -16.39 | -13.00 |
| | | | | 2616.8~2615.8 | -23.973 | -24.086 | -21.478 | -24.383 | -17.29 | -13.00 |
| | | | | 2615.8~2614.8 | -25.154 | -25.290 | -22.393 | -25.722 | -18.40 | -13.00 |
| | | | | 2614.8~2613.8 | -26.467 | -26.201 | -23.499 | -26.779 | -19.50 | -13.00 |
| | | | | 2613.8~2612.8 | -28.148 | -27.935 | -25.452 | -28.436 | -21.29 | -13.00 |
| 2685.0 | 1 | 49 | 0 | 2691~2692 | -33.663 | -33.297 | -32.789 | -33.071 | -27.17 | -13.00 |
| | | | | 2692~2693 | -39.235 | -38.687 | -38.687 | -38.361 | -32.71 | -13.00 |
| | | | | 2693~2694 | -40.582 | -39.895 | -40.020 | -40.076 | -34.11 | -13.00 |
| | | | | 2694~2695 | -43.121 | -42.864 | -42.982 | -42.823 | -36.93 | -13.00 |
| | | | | 2695~2696 | -44.113 | -43.916 | -44.162 | -44.059 | -38.04 | -13.00 |
| | 50 | 0 | 0 | 2691~2692 | -23.220 | -21.134 | -21.093 | -20.981 | -15.49 | -13.00 |
| | | | | 2692~2693 | -23.718 | -22.120 | -21.635 | -22.041 | -16.29 | -13.00 |
| | | | | 2693~2694 | -23.739 | -22.550 | -21.681 | -22.426 | -16.52 | -13.00 |
| | | | | 2694~2695 | -24.067 | -23.569 | -22.248 | -22.917 | -17.13 | -13.00 |
| | | | | 2695~2696 | -24.989 | -25.347 | -23.168 | -24.305 | -18.35 | -13.00 |

Worst Plot of QPSK, Low Channel

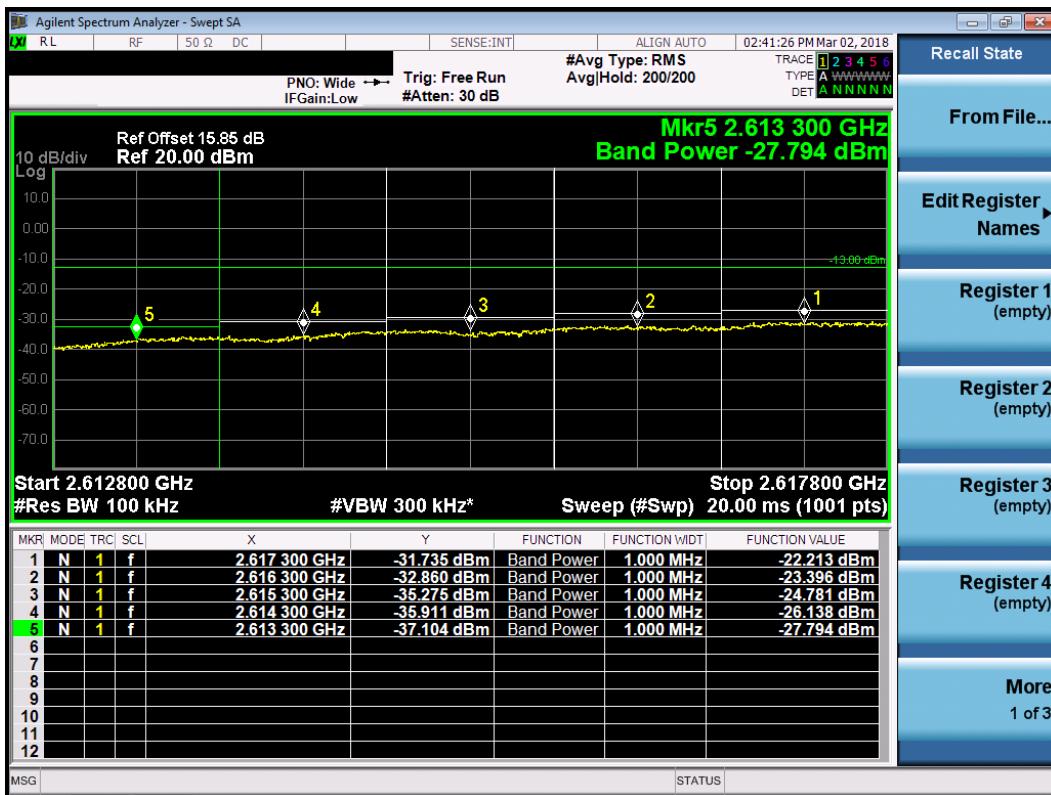


Worst Plot of QPSK, High Channel

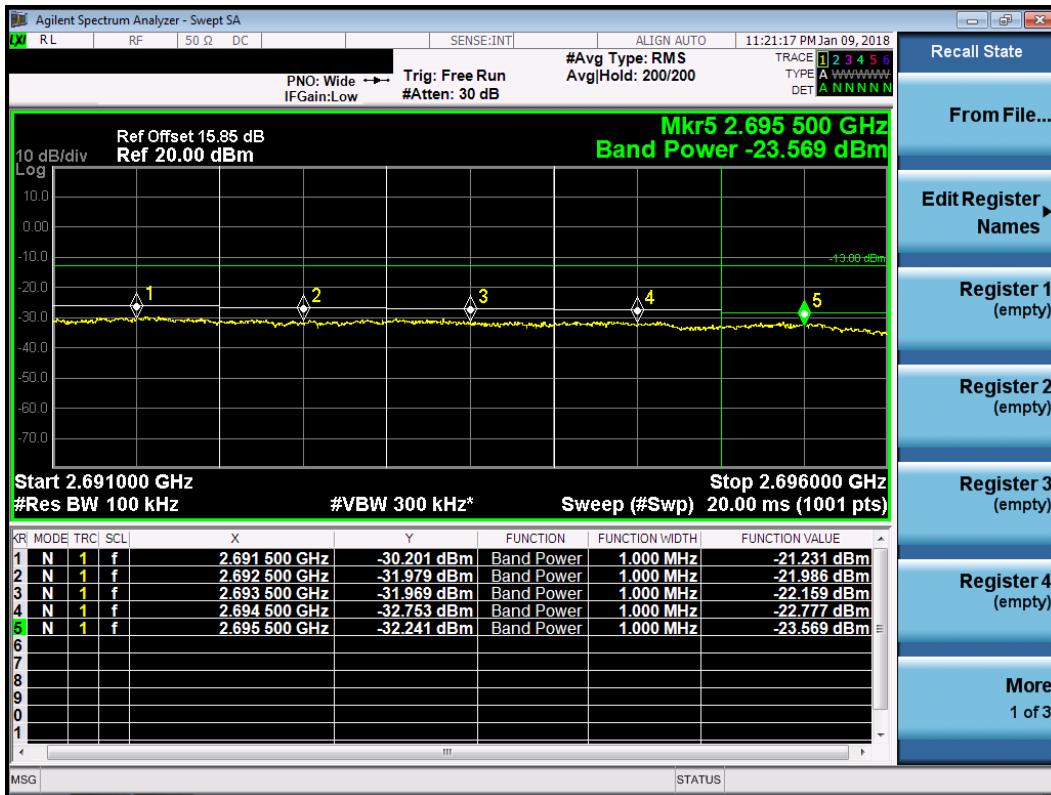


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2623.8 | 1 | 0 | 2617.8~2616.8 | -33.127 | -32.648 | -32.551 | -33.193 | -26.85 | -13.00 |
| | | | | 2616.8~2615.8 | -39.379 | -39.025 | -38.628 | -39.170 | -33.02 | -13.00 |
| | | | | 2615.8~2614.8 | -39.865 | -38.830 | -40.002 | -40.174 | -33.66 | -13.00 |
| | | | | 2614.8~2613.8 | -43.734 | -43.329 | -43.582 | -43.909 | -37.61 | -13.00 |
| | | | | 2613.8~2612.8 | -44.750 | -44.528 | -44.545 | -44.841 | -38.64 | -13.00 |
| | 2623.8 | 50 | 0 | 2617.8~2616.8 | -23.280 | -24.053 | -22.213 | -25.297 | -17.55 | -13.00 |
| | | | | 2616.8~2615.8 | -24.363 | -24.916 | -23.396 | -26.531 | -18.64 | -13.00 |
| | | | | 2615.8~2614.8 | -25.575 | -26.204 | -24.781 | -27.897 | -19.95 | -13.00 |
| | | | | 2614.8~2613.8 | -26.854 | -27.506 | -26.138 | -29.325 | -21.28 | -13.00 |
| | | | | 2613.8~2612.8 | -28.600 | -29.415 | -27.794 | -31.132 | -23.05 | -13.00 |
| | 2685.0 | 1 | 49 | 2691~2692 | -35.092 | -34.336 | -33.810 | -34.000 | -28.26 | -13.00 |
| | | | | 2692~2693 | -40.151 | -39.565 | -39.251 | -39.123 | -33.48 | -13.00 |
| | | | | 2693~2694 | -39.365 | -39.003 | -40.738 | -40.886 | -33.90 | -13.00 |
| | | | | 2694~2695 | -43.368 | -43.217 | -43.345 | -43.291 | -37.28 | -13.00 |
| | | | | 2695~2696 | -44.499 | -44.340 | -44.384 | -44.304 | -38.36 | -13.00 |
| | 2685.0 | 50 | 0 | 2691~2692 | -25.029 | -23.661 | -21.231 | -21.486 | -16.56 | -13.00 |
| | | | | 2692~2693 | -25.881 | -24.624 | -21.986 | -22.259 | -17.37 | -13.00 |
| | | | | 2693~2694 | -26.032 | -24.751 | -22.159 | -22.639 | -17.60 | -13.00 |
| | | | | 2694~2695 | -26.663 | -25.510 | -22.777 | -23.572 | -18.35 | -13.00 |
| | | | | 2695~2696 | -27.578 | -27.104 | -23.569 | -24.845 | -19.44 | -13.00 |

Worst Plot of 16QAM, Low Channel



Worst Plot of 16QAM, High Channel

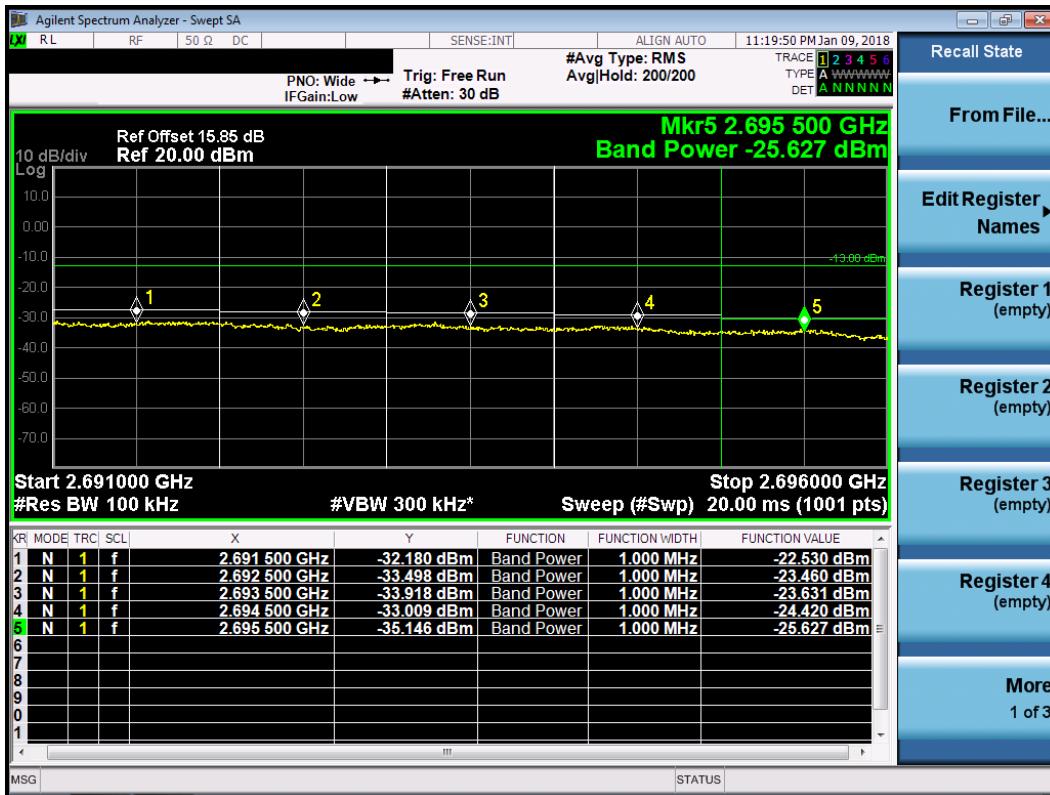


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2623.8 | 1 | 0 | 2617.8~2616.8 | -37.484 | -37.321 | -37.760 | -38.124 | -31.64 | -13.00 |
| | | | | 2616.8~2615.8 | -42.009 | -41.950 | -41.976 | -42.270 | -36.03 | -13.00 |
| | | | | 2615.8~2614.8 | -41.147 | -40.891 | -40.924 | -41.141 | -35.00 | -13.00 |
| | | | | 2614.8~2613.8 | -44.286 | -44.184 | -44.375 | -44.645 | -38.35 | -13.00 |
| | | | | 2613.8~2612.8 | -44.965 | -44.928 | -44.905 | -45.246 | -38.99 | -13.00 |
| | 2623.8 | 50 | 0 | 2617.8~2616.8 | -26.003 | -27.061 | -26.652 | -28.577 | -20.95 | -13.00 |
| | | | | 2616.8~2615.8 | -26.971 | -28.137 | -27.915 | -29.884 | -22.08 | -13.00 |
| | | | | 2615.8~2614.8 | -28.159 | -29.214 | -29.191 | -31.289 | -23.30 | -13.00 |
| | | | | 2614.8~2613.8 | -29.487 | -30.455 | -30.418 | -32.870 | -24.62 | -13.00 |
| | | | | 2613.8~2612.8 | -31.223 | -32.206 | -32.105 | -34.568 | -26.34 | -13.00 |
| | 2685.0 | 1 | 49 | 2691~2692 | -33.301 | -32.645 | -31.433 | -31.704 | -26.19 | -13.00 |
| | | | | 2692~2693 | -38.954 | -38.568 | -37.406 | -37.734 | -32.10 | -13.00 |
| | | | | 2693~2694 | -40.355 | -39.684 | -40.361 | -40.759 | -34.25 | -13.00 |
| | | | | 2694~2695 | -43.503 | -43.294 | -42.888 | -43.490 | -37.27 | -13.00 |
| | | | | 2695~2696 | -44.453 | -44.309 | -43.843 | -44.451 | -38.24 | -13.00 |
| | 2685.0 | 50 | 0 | 2691~2692 | -25.317 | -24.122 | -22.530 | -23.004 | -17.59 | -13.00 |
| | | | | 2692~2693 | -26.255 | -24.935 | -23.460 | -23.935 | -18.50 | -13.00 |
| | | | | 2693~2694 | -26.670 | -25.519 | -23.631 | -24.426 | -18.89 | -13.00 |
| | | | | 2694~2695 | -27.516 | -26.674 | -24.420 | -25.262 | -19.78 | -13.00 |
| | | | | 2695~2696 | -28.946 | -28.580 | -25.627 | -26.899 | -21.28 | -13.00 |

Worst Plot of 64QAM, Low Channel



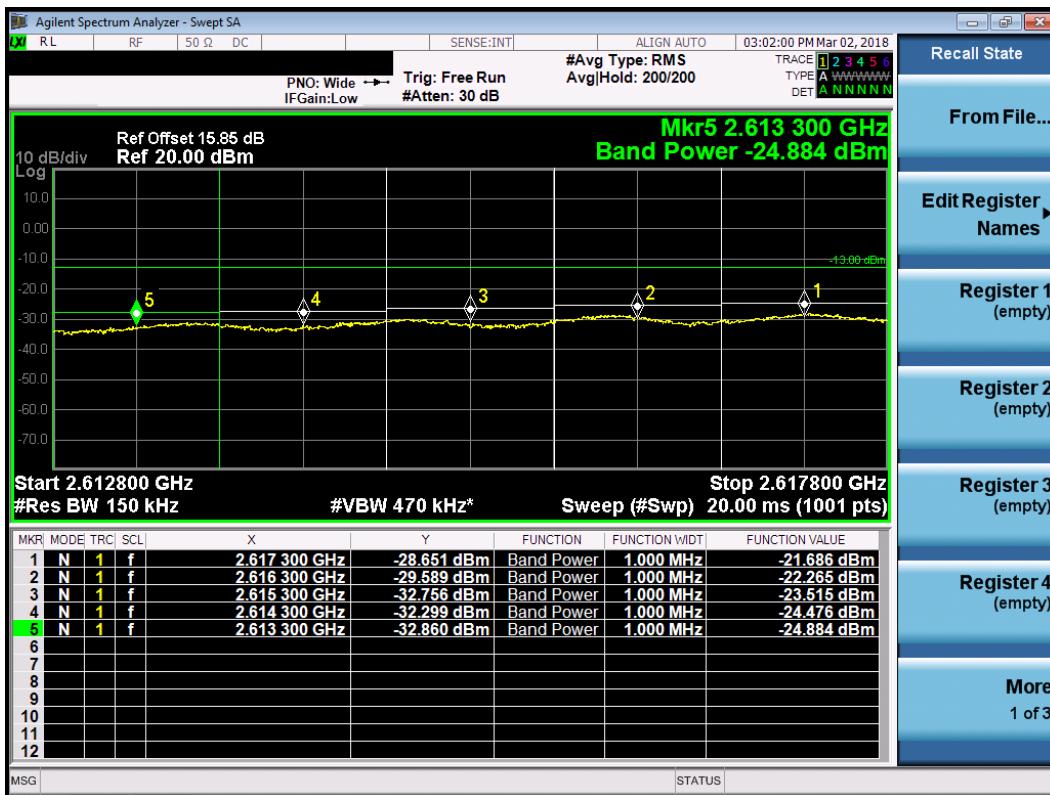
Worst Plot of 64QAM, High Channel



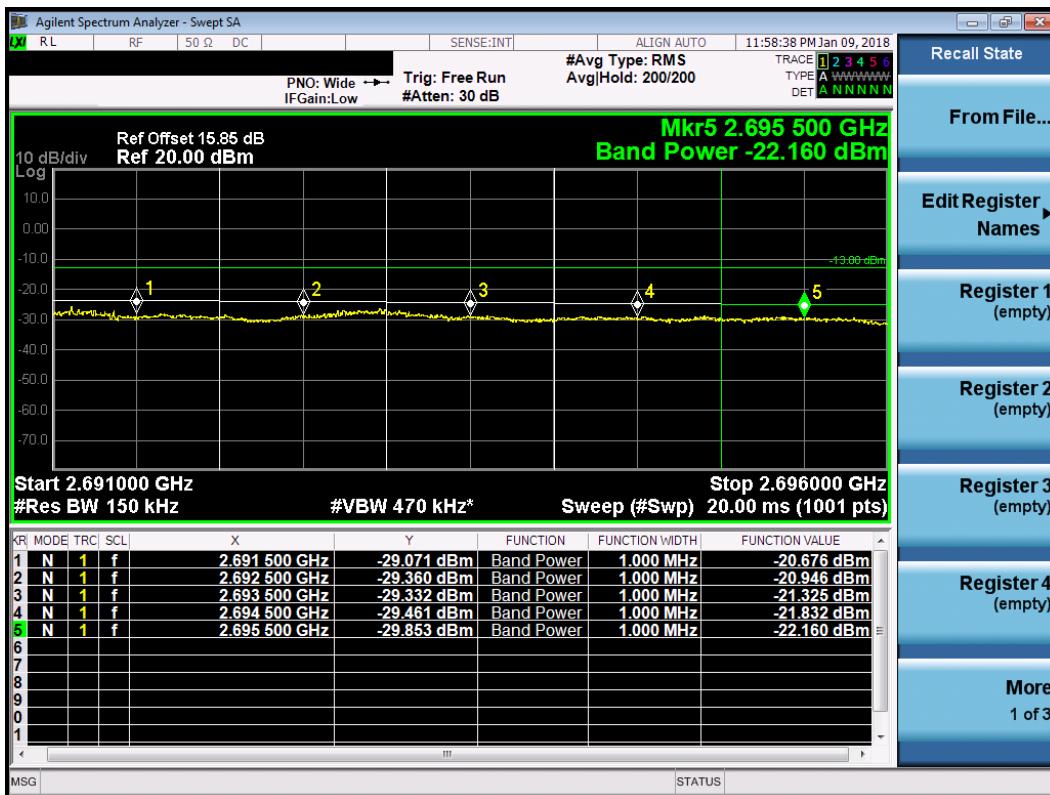
LTE Band 41, CB: 15MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2626.3 | 1 | 0 | 2617.8~2616.8 | -33.485 | -32.908 | -33.065 | -33.593 | -27.23 | -13.00 |
| | | | | 2616.8~2615.8 | -37.926 | -37.393 | -37.029 | -37.648 | -31.47 | -13.00 |
| | | | | 2615.8~2614.8 | -40.874 | -40.434 | -39.915 | -40.496 | -34.40 | -13.00 |
| | | | | 2614.8~2613.8 | -42.870 | -42.439 | -42.228 | -42.753 | -36.54 | -13.00 |
| | | | | 2613.8~2612.8 | -38.327 | -37.151 | -34.440 | -36.058 | -30.24 | -13.00 |
| | 2626.3 | 75 | 0 | 2617.8~2616.8 | -25.563 | -24.424 | -21.686 | -25.651 | -17.99 | -13.00 |
| | | | | 2616.8~2615.8 | -26.291 | -24.953 | -22.265 | -26.003 | -18.54 | -13.00 |
| | | | | 2615.8~2614.8 | -27.090 | -25.727 | -23.515 | -26.760 | -19.51 | -13.00 |
| | | | | 2614.8~2613.8 | -27.542 | -26.480 | -24.476 | -27.475 | -20.28 | -13.00 |
| | | | | 2613.8~2612.8 | -28.104 | -27.231 | -24.884 | -28.073 | -20.84 | -13.00 |
| | 2682.5 | 1 | 74 | 2691~2692 | -34.340 | -33.868 | -33.626 | -33.737 | -27.86 | -13.00 |
| | | | | 2692~2693 | -37.911 | -37.340 | -37.290 | -37.217 | -31.41 | -13.00 |
| | | | | 2693~2694 | -40.430 | -40.048 | -39.638 | -39.885 | -33.97 | -13.00 |
| | | | | 2694~2695 | -42.286 | -42.123 | -41.796 | -42.038 | -36.04 | -13.00 |
| | | | | 2695~2696 | -39.539 | -38.781 | -33.635 | -33.229 | -29.39 | -13.00 |
| | 2682.5 | 75 | 0 | 2691~2692 | -25.398 | -22.939 | -20.676 | -21.518 | -16.28 | -13.00 |
| | | | | 2692~2693 | -25.260 | -22.713 | -20.946 | -21.507 | -16.30 | -13.00 |
| | | | | 2693~2694 | -26.008 | -23.335 | -21.325 | -22.485 | -16.95 | -13.00 |
| | | | | 2694~2695 | -26.772 | -24.542 | -21.832 | -23.507 | -17.79 | -13.00 |
| | | | | 2695~2696 | -26.472 | -24.966 | -22.160 | -23.521 | -17.97 | -13.00 |

Worst Plot of QPSK, Low Channel

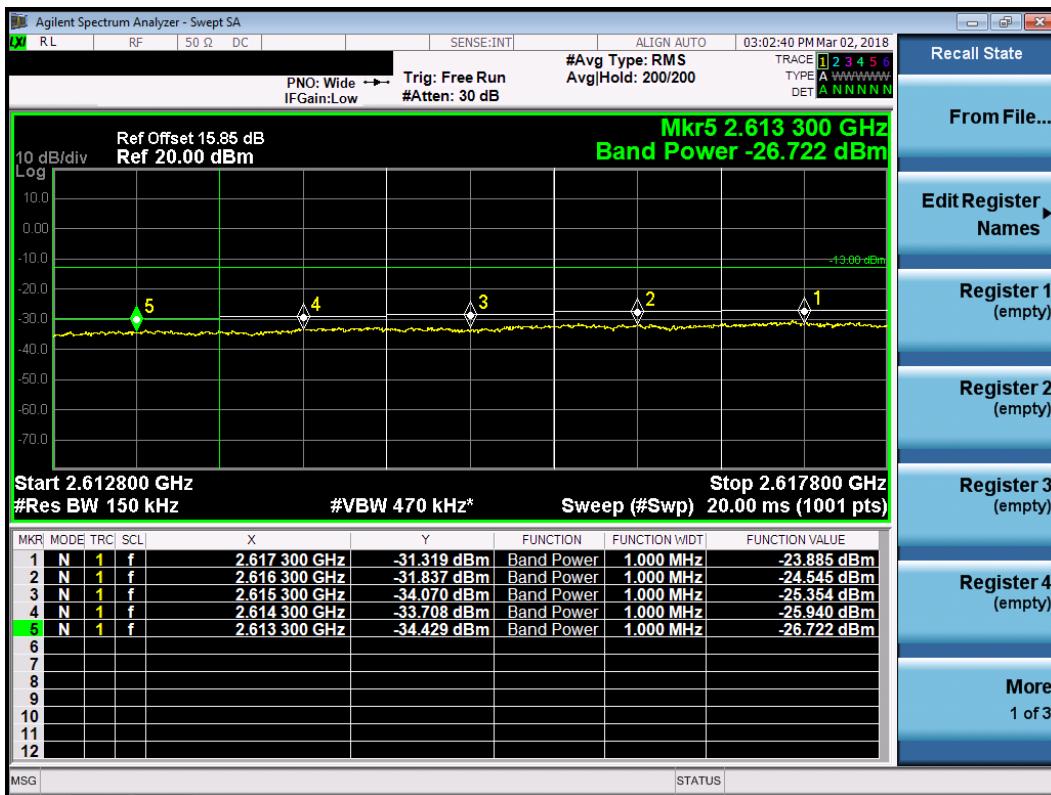


Worst Plot of QPSK, High Channel

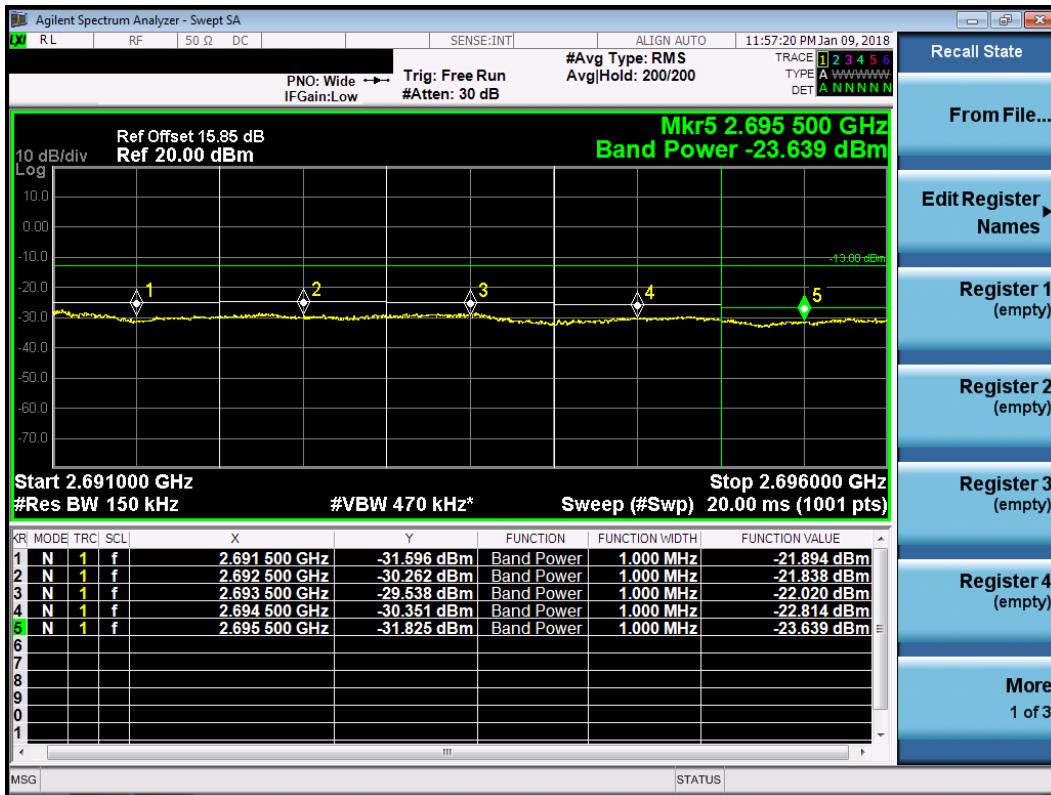


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2626.3 | 1 | 0 | 2617.8~2616.8 | -33.482 | -33.330 | -33.553 | -34.019 | -27.57 | -13.00 |
| | | | | 2616.8~2615.8 | -38.056 | -37.864 | -37.735 | -38.124 | -31.92 | -13.00 |
| | | | | 2615.8~2614.8 | -41.055 | -40.786 | -40.679 | -41.008 | -34.86 | -13.00 |
| | | | | 2614.8~2613.8 | -43.033 | -42.871 | -42.990 | -43.209 | -37.00 | -13.00 |
| | | | | 2613.8~2612.8 | -40.018 | -39.931 | -35.867 | -36.977 | -31.80 | -13.00 |
| | 2626.3 | 75 | 0 | 2617.8~2616.8 | -23.885 | -24.544 | -24.419 | -27.542 | -18.87 | -13.00 |
| | | | | 2616.8~2615.8 | -24.545 | -25.090 | -24.681 | -27.965 | -19.35 | -13.00 |
| | | | | 2615.8~2614.8 | -25.354 | -25.912 | -25.431 | -28.856 | -20.16 | -13.00 |
| | | | | 2614.8~2613.8 | -25.940 | -26.488 | -26.457 | -29.619 | -20.89 | -13.00 |
| | | | | 2613.8~2612.8 | -26.722 | -27.252 | -27.431 | -30.422 | -21.72 | -13.00 |
| | 2682.5 | 1 | 74 | 2691~2692 | -35.531 | -34.682 | -34.483 | -34.460 | -28.75 | -13.00 |
| | | | | 2692~2693 | -39.014 | -38.284 | -37.890 | -37.836 | -32.21 | -13.00 |
| | | | | 2693~2694 | -41.200 | -40.756 | -40.409 | -40.461 | -34.67 | -13.00 |
| | | | | 2694~2695 | -42.909 | -42.618 | -42.390 | -42.424 | -36.56 | -13.00 |
| | | | | 2695~2696 | -39.451 | -38.775 | -35.174 | -34.735 | -30.53 | -13.00 |
| | 2682.5 | 75 | 0 | 2691~2692 | -25.468 | -23.379 | -21.894 | -23.025 | -17.24 | -13.00 |
| | | | | 2692~2693 | -25.193 | -23.104 | -21.838 | -22.877 | -17.07 | -13.00 |
| | | | | 2693~2694 | -25.506 | -23.711 | -22.020 | -23.311 | -17.44 | -13.00 |
| | | | | 2694~2695 | -26.480 | -24.951 | -22.814 | -24.132 | -18.37 | -13.00 |
| | | | | 2695~2696 | -26.904 | -25.491 | -23.639 | -24.581 | -18.97 | -13.00 |

Worst Plot of 16QAM, Low Channel

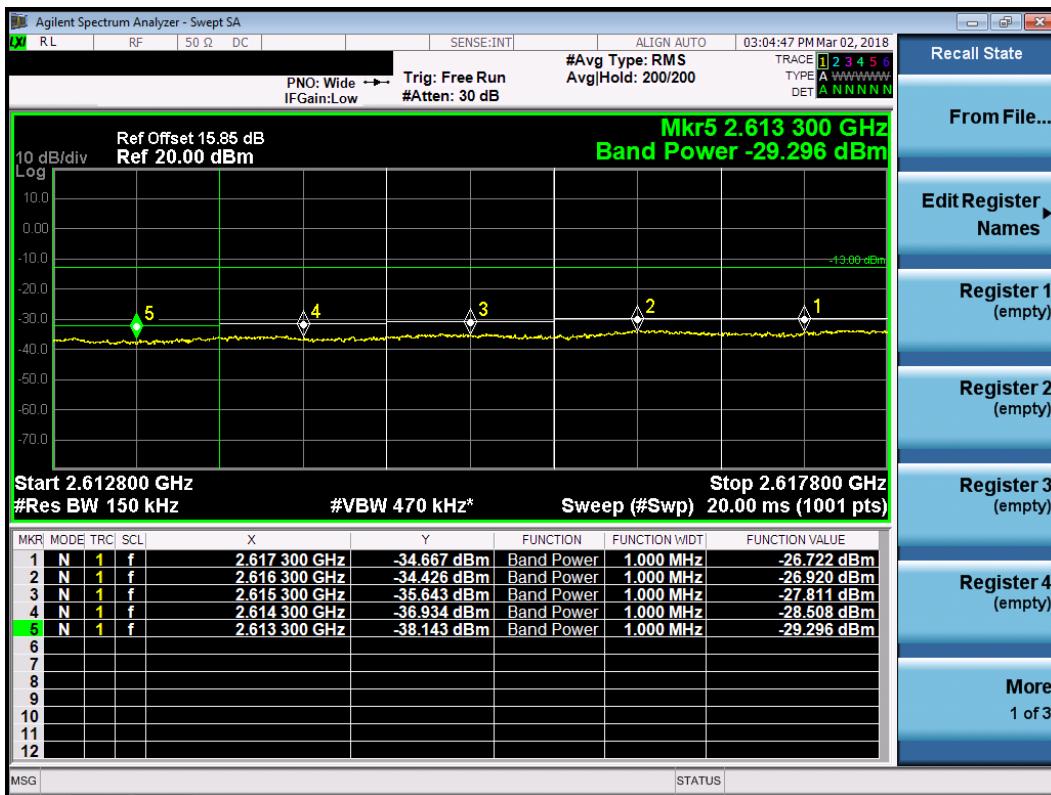


Worst Plot of 16QAM, High Channel

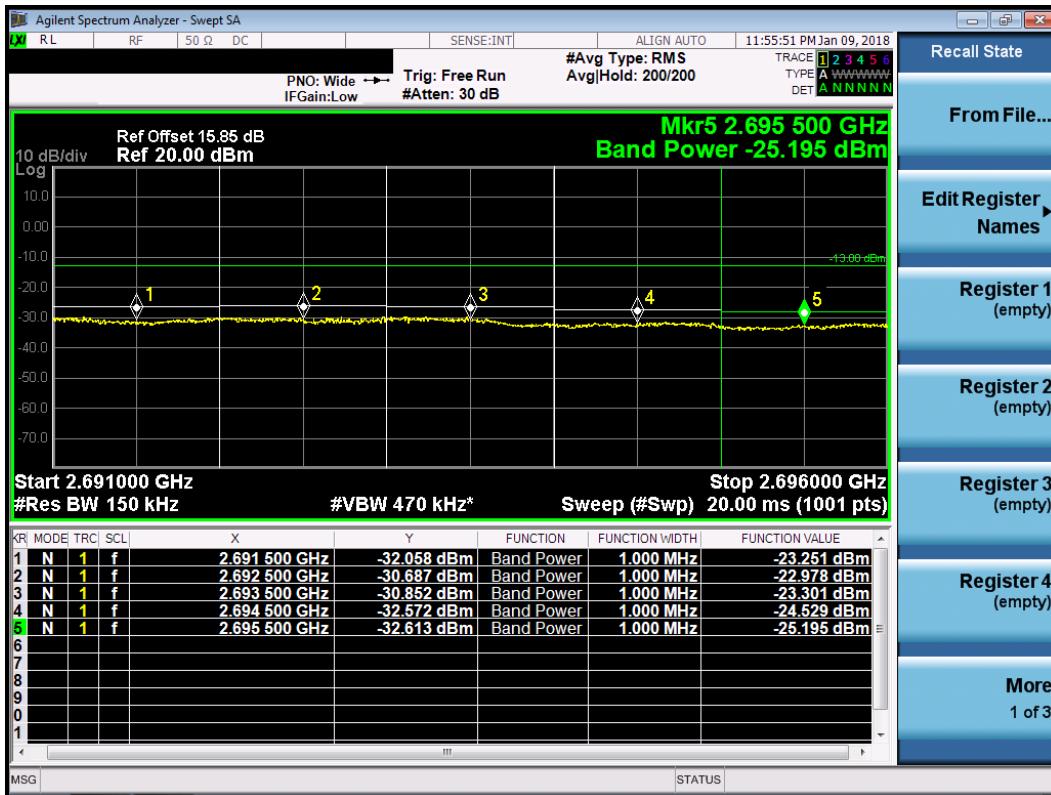


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2626.3 | 1 | 0 | 2617.8~2616.8 | -38.032 | -37.886 | -38.112 | -38.550 | -32.12 | -13.00 |
| | | | | 2616.8~2615.8 | -41.166 | -40.911 | -40.948 | -41.191 | -35.03 | -13.00 |
| | | | | 2615.8~2614.8 | -42.762 | -42.548 | -42.614 | -42.831 | -36.67 | -13.00 |
| | | | | 2614.8~2613.8 | -44.031 | -43.854 | -44.030 | -44.217 | -38.01 | -13.00 |
| | | | | 2613.8~2612.8 | -42.442 | -42.488 | -37.454 | -38.301 | -33.56 | -13.00 |
| | 2626.3 | 75 | 0 | 2617.8~2616.8 | -26.722 | -27.320 | -27.921 | -30.167 | -21.83 | -13.00 |
| | | | | 2616.8~2615.8 | -26.920 | -27.561 | -28.405 | -30.722 | -22.16 | -13.00 |
| | | | | 2615.8~2614.8 | -27.811 | -28.282 | -29.390 | -31.761 | -23.05 | -13.00 |
| | | | | 2614.8~2613.8 | -28.508 | -28.834 | -29.935 | -32.475 | -23.67 | -13.00 |
| | | | | 2613.8~2612.8 | -29.296 | -29.641 | -30.464 | -33.189 | -24.39 | -13.00 |
| | 2682.5 | 1 | 74 | 2691~2692 | -34.304 | -33.374 | -33.517 | -33.536 | -27.65 | -13.00 |
| | | | | 2692~2693 | -38.263 | -37.557 | -37.574 | -37.483 | -31.69 | -13.00 |
| | | | | 2693~2694 | -40.881 | -40.393 | -40.565 | -40.347 | -34.52 | -13.00 |
| | | | | 2694~2695 | -42.821 | -42.539 | -42.747 | -42.544 | -36.64 | -13.00 |
| | | | | 2695~2696 | -39.492 | -38.840 | -36.987 | -36.570 | -31.78 | -13.00 |
| | 2682.5 | 75 | 0 | 2691~2692 | -26.166 | -24.283 | -23.251 | -24.698 | -18.46 | -13.00 |
| | | | | 2692~2693 | -25.868 | -24.072 | -22.978 | -24.533 | -18.22 | -13.00 |
| | | | | 2693~2694 | -25.764 | -24.322 | -23.301 | -24.476 | -18.36 | -13.00 |
| | | | | 2694~2695 | -27.151 | -25.975 | -24.529 | -25.869 | -19.76 | -13.00 |
| | | | | 2695~2696 | -27.774 | -26.636 | -25.195 | -26.476 | -20.40 | -13.00 |

Worst Plot of 64QAM, Low Channel



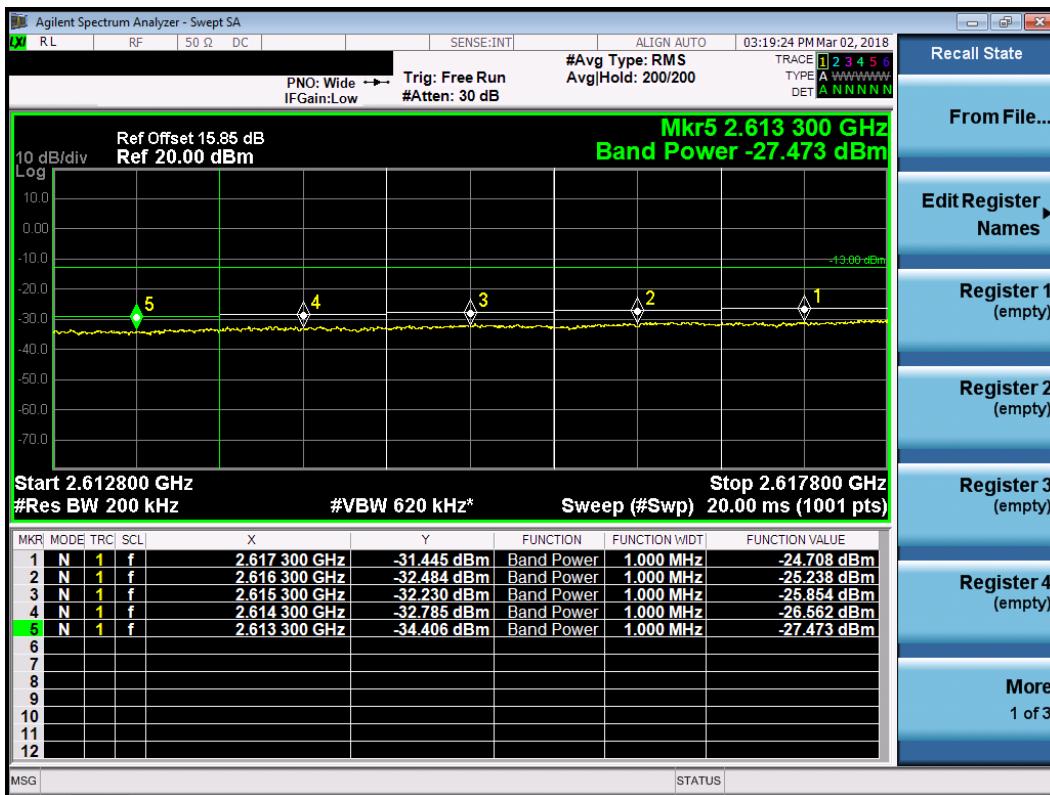
Worst Plot of 64QAM, High Channel



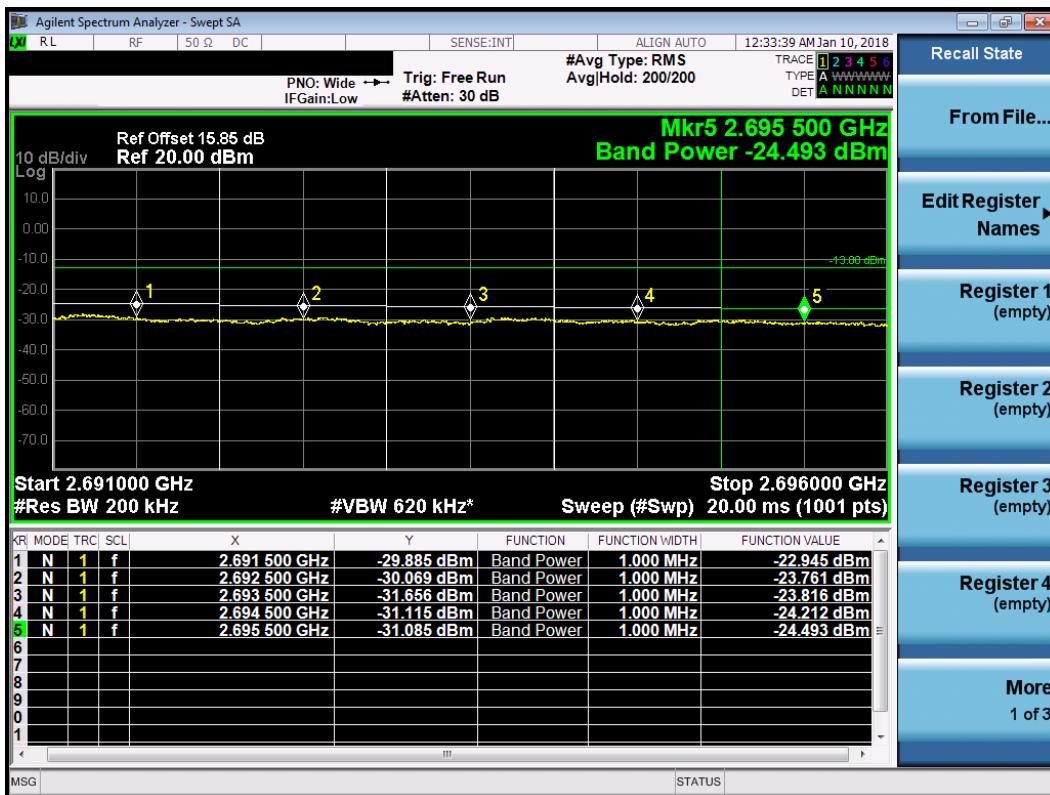
LTE Band 41, CB: 20MHz

| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| QPSK | 2628.8 | 1 | 0 | 2617.8~2616.8 | -34.759 | -34.484 | -35.471 | -36.007 | -29.12 | -13.00 |
| | | | | 2616.8~2615.8 | -37.608 | -37.293 | -38.024 | -38.385 | -31.79 | -13.00 |
| | | | | 2615.8~2614.8 | -40.532 | -40.222 | -40.946 | -41.321 | -34.71 | -13.00 |
| | | | | 2614.8~2613.8 | -42.468 | -42.132 | -42.811 | -43.164 | -36.61 | -13.00 |
| | | | | 2613.8~2612.8 | -43.681 | -43.432 | -44.076 | -44.358 | -37.85 | -13.00 |
| | 2628.8 | 100 | 0 | 2617.8~2616.8 | -25.725 | -24.708 | -24.986 | -27.887 | -19.64 | -13.00 |
| | | | | 2616.8~2615.8 | -26.348 | -25.238 | -25.444 | -28.261 | -20.15 | -13.00 |
| | | | | 2615.8~2614.8 | -27.060 | -25.854 | -26.078 | -28.672 | -20.76 | -13.00 |
| | | | | 2614.8~2613.8 | -27.582 | -26.562 | -26.693 | -29.109 | -21.35 | -13.00 |
| | | | | 2613.8~2612.8 | -28.344 | -27.473 | -27.647 | -29.916 | -22.22 | -13.00 |
| 2680.0 | 1 | 99 | 99 | 2691~2692 | -33.405 | -32.806 | -33.668 | -33.884 | -27.40 | -13.00 |
| | | | | 2692~2693 | -36.184 | -35.627 | -36.480 | -36.560 | -30.18 | -13.00 |
| | | | | 2693~2694 | -38.955 | -38.745 | -39.327 | -39.556 | -33.11 | -13.00 |
| | | | | 2694~2695 | -41.138 | -40.970 | -41.382 | -41.635 | -35.25 | -13.00 |
| | | | | 2695~2696 | -42.644 | -42.515 | -42.944 | -43.215 | -36.80 | -13.00 |
| | 100 | 0 | 0 | 2691~2692 | -25.971 | -23.539 | -22.945 | -23.523 | -17.83 | -13.00 |
| | | | | 2692~2693 | -26.987 | -24.591 | -23.761 | -24.633 | -18.82 | -13.00 |
| | | | | 2693~2694 | -26.970 | -24.709 | -23.816 | -25.037 | -18.97 | -13.00 |
| | | | | 2694~2695 | -26.924 | -25.244 | -24.212 | -25.375 | -19.31 | -13.00 |
| | | | | 2695~2696 | -27.207 | -25.946 | -24.493 | -25.569 | -19.68 | -13.00 |

Worst Plot of QPSK, Low Channel

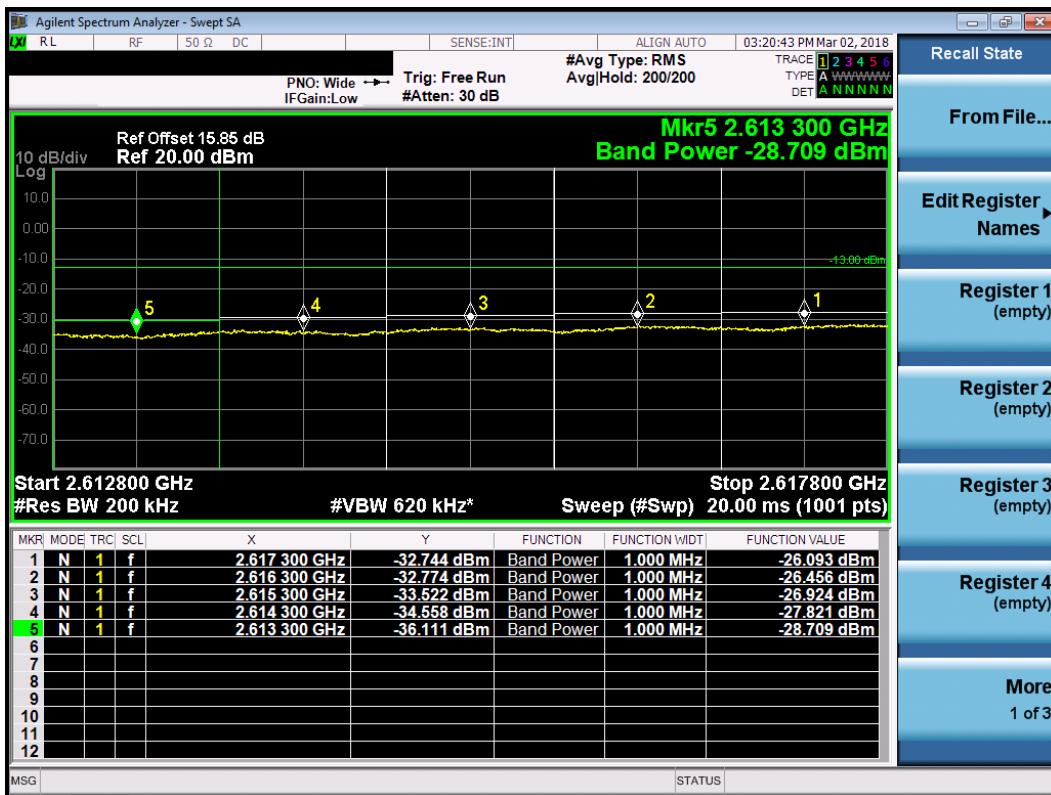


Worst Plot of QPSK, High Channel

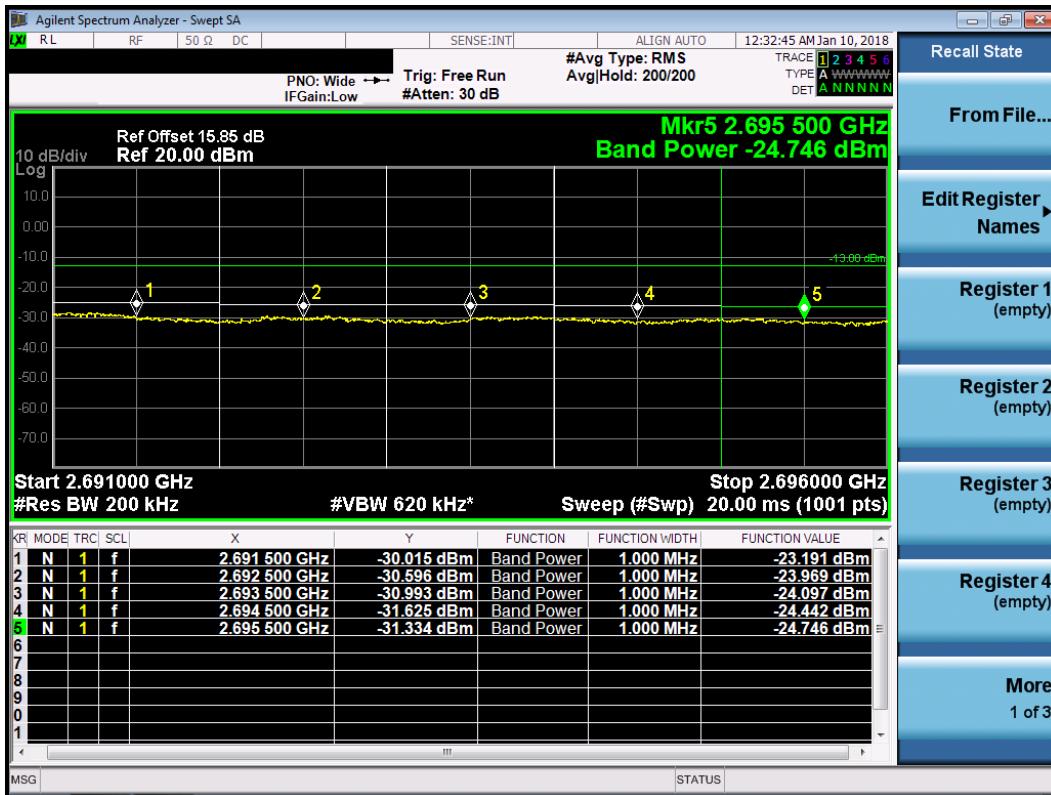


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 16QAM | 2628.8 | 1 | 0 | 2617.8~2616.8 | -35.571 | -35.168 | -35.842 | -36.336 | -29.69 | -13.00 |
| | | | | 2616.8~2615.8 | -38.410 | -37.878 | -38.306 | -38.799 | -32.32 | -13.00 |
| | | | | 2615.8~2614.8 | -41.326 | -40.844 | -41.401 | -41.753 | -35.30 | -13.00 |
| | | | | 2614.8~2613.8 | -43.040 | -42.578 | -43.093 | -43.423 | -37.00 | -13.00 |
| | | | | 2613.8~2612.8 | -44.155 | -43.851 | -44.322 | -44.519 | -38.18 | -13.00 |
| | 2628.8 | 100 | 0 | 2617.8~2616.8 | -27.339 | -26.093 | -27.170 | -29.780 | -21.38 | -13.00 |
| | | | | 2616.8~2615.8 | -27.729 | -26.456 | -27.476 | -30.124 | -21.73 | -13.00 |
| | | | | 2615.8~2614.8 | -28.124 | -26.924 | -27.866 | -30.601 | -22.16 | -13.00 |
| | | | | 2614.8~2613.8 | -28.721 | -27.821 | -28.531 | -31.202 | -22.88 | -13.00 |
| | | | | 2613.8~2612.8 | -29.619 | -28.709 | -29.733 | -31.936 | -23.83 | -13.00 |
| | 2680.0 | 1 | 99 | 2691~2692 | -34.508 | -33.922 | -34.713 | -34.942 | -28.48 | -13.00 |
| | | | | 2692~2693 | -37.136 | -36.628 | -37.466 | -37.469 | -31.14 | -13.00 |
| | | | | 2693~2694 | -39.841 | -39.582 | -40.212 | -40.284 | -33.95 | -13.00 |
| | | | | 2694~2695 | -41.756 | -41.722 | -42.091 | -42.170 | -35.91 | -13.00 |
| | | | | 2695~2696 | -43.146 | -43.129 | -43.528 | -43.565 | -37.32 | -13.00 |
| | 2680.0 | 100 | 0 | 2691~2692 | -26.172 | -23.885 | -23.191 | -24.716 | -18.33 | -13.00 |
| | | | | 2692~2693 | -26.586 | -24.551 | -23.969 | -25.271 | -18.97 | -13.00 |
| | | | | 2693~2694 | -26.653 | -24.879 | -24.097 | -25.542 | -19.17 | -13.00 |
| | | | | 2694~2695 | -26.976 | -25.296 | -24.442 | -25.753 | -19.50 | -13.00 |
| | | | | 2695~2696 | -27.450 | -25.713 | -24.746 | -26.023 | -19.86 | -13.00 |

Worst Plot of 16QAM, Low Channel

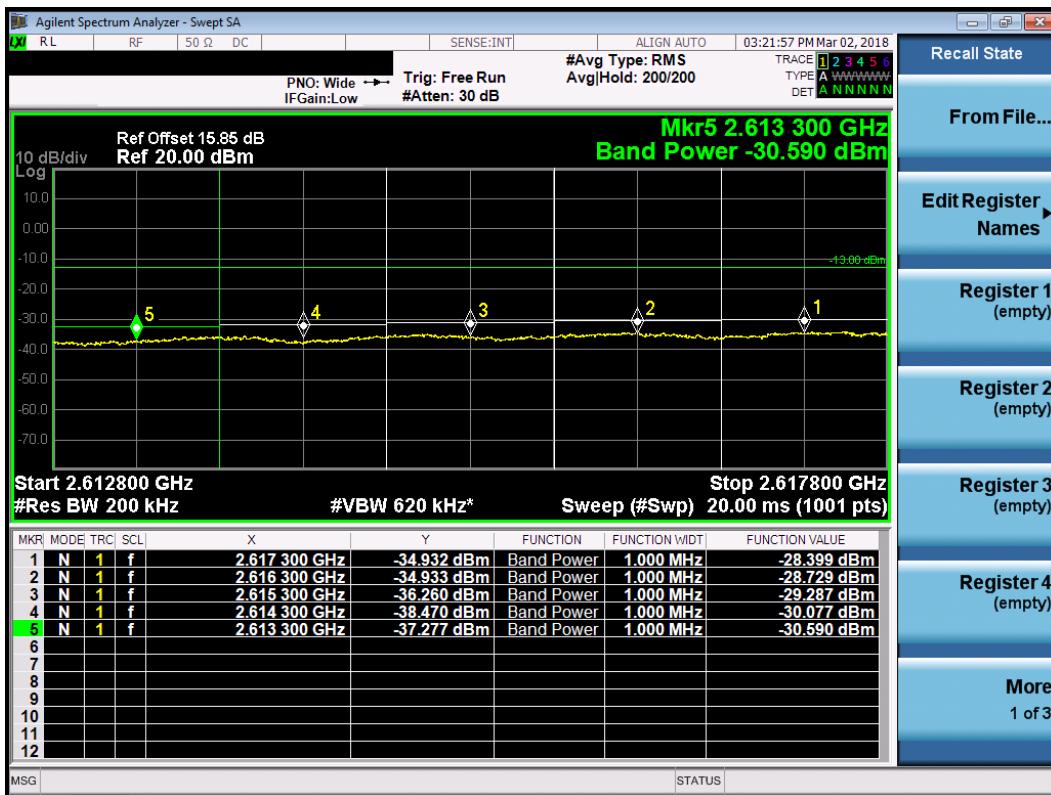


Worst Plot of 16QAM, High Channel

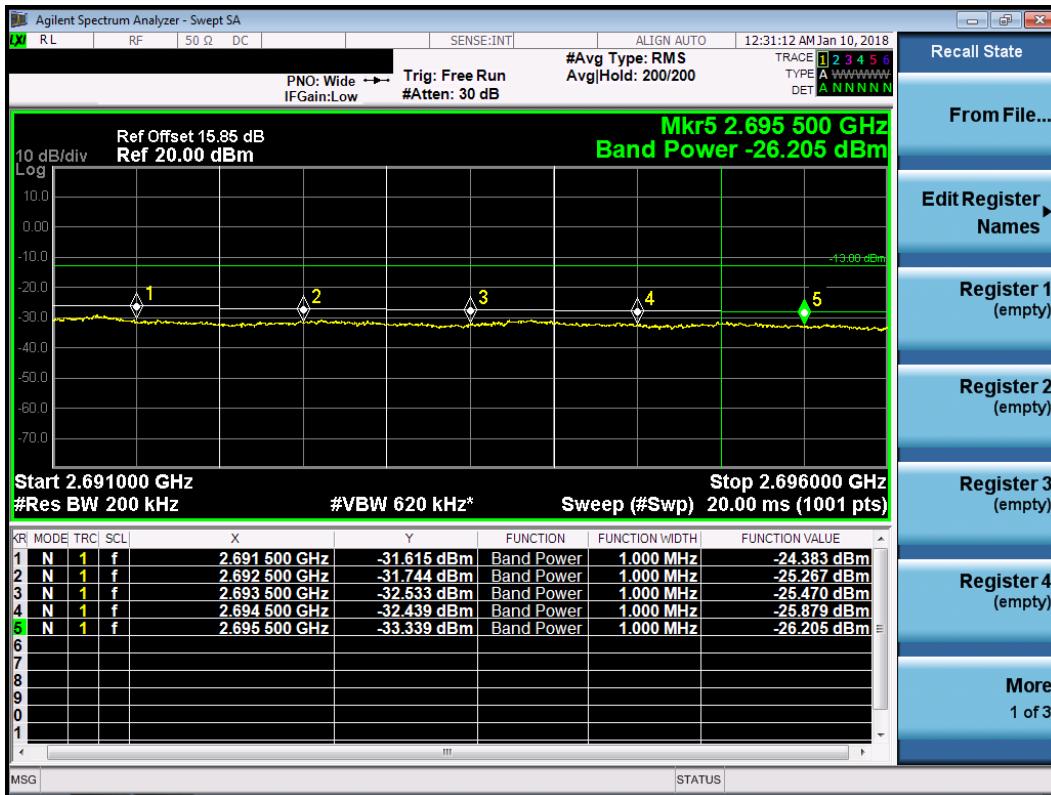


| Measured Channel Edge Result | | | | | | | | | | |
|------------------------------|----------------|------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Modulation | Freq. (MHz) | RB Size | RB offset | Range (MHz) | ANT 0 (dBm) | ANT 1 (dBm) | ANT 2 (dBm) | ANT 3 (dBm) | Total (dBm) | Limit (dBm) |
| 64QAM | 2628.8 | 1 | 0 | 2617.8~2616.8 | -39.286 | -38.875 | -39.734 | -39.905 | -33.41 | -13.00 |
| | | | | 2616.8~2615.8 | -40.825 | -40.289 | -40.936 | -41.236 | -34.79 | -13.00 |
| | | | | 2615.8~2614.8 | -43.013 | -42.720 | -43.307 | -43.459 | -37.09 | -13.00 |
| | | | | 2614.8~2613.8 | -44.148 | -43.830 | -44.298 | -44.510 | -38.17 | -13.00 |
| | | | | 2613.8~2612.8 | -44.795 | -44.566 | -45.019 | -45.136 | -38.85 | -13.00 |
| | 2628.8 | 100 | 0 | 2617.8~2616.8 | -29.355 | -28.399 | -31.084 | -32.979 | -24.10 | -13.00 |
| | | | | 2616.8~2615.8 | -29.466 | -28.729 | -31.034 | -33.395 | -24.30 | -13.00 |
| | | | | 2615.8~2614.8 | -29.941 | -29.287 | -31.336 | -33.755 | -24.75 | -13.00 |
| | | | | 2614.8~2613.8 | -30.677 | -30.077 | -32.115 | -34.498 | -25.52 | -13.00 |
| | | | | 2613.8~2612.8 | -31.235 | -30.590 | -32.881 | -35.293 | -26.13 | -13.00 |
| | 2680.0 | 1 | 99 | 2691~2692 | -35.122 | -34.586 | -35.660 | -35.757 | -29.24 | -13.00 |
| | | | | 2692~2693 | -37.798 | -37.290 | -38.160 | -38.202 | -31.83 | -13.00 |
| | | | | 2693~2694 | -40.403 | -40.210 | -40.834 | -41.018 | -34.58 | -13.00 |
| | | | | 2694~2695 | -42.165 | -42.074 | -42.471 | -42.734 | -36.33 | -13.00 |
| | | | | 2695~2696 | -43.481 | -43.366 | -43.767 | -44.040 | -37.64 | -13.00 |
| | 2680.0 | 100 | 0 | 2691~2692 | -26.872 | -25.060 | -24.383 | -26.406 | -19.54 | -13.00 |
| | | | | 2692~2693 | -27.268 | -25.666 | -25.267 | -27.146 | -20.23 | -13.00 |
| | | | | 2693~2694 | -27.342 | -25.972 | -25.470 | -27.580 | -20.48 | -13.00 |
| | | | | 2694~2695 | -27.805 | -26.364 | -25.879 | -27.812 | -20.86 | -13.00 |
| | | | | 2695~2696 | -28.354 | -26.865 | -26.205 | -27.948 | -21.24 | -13.00 |

Worst Plot of 64QAM, Low Channel

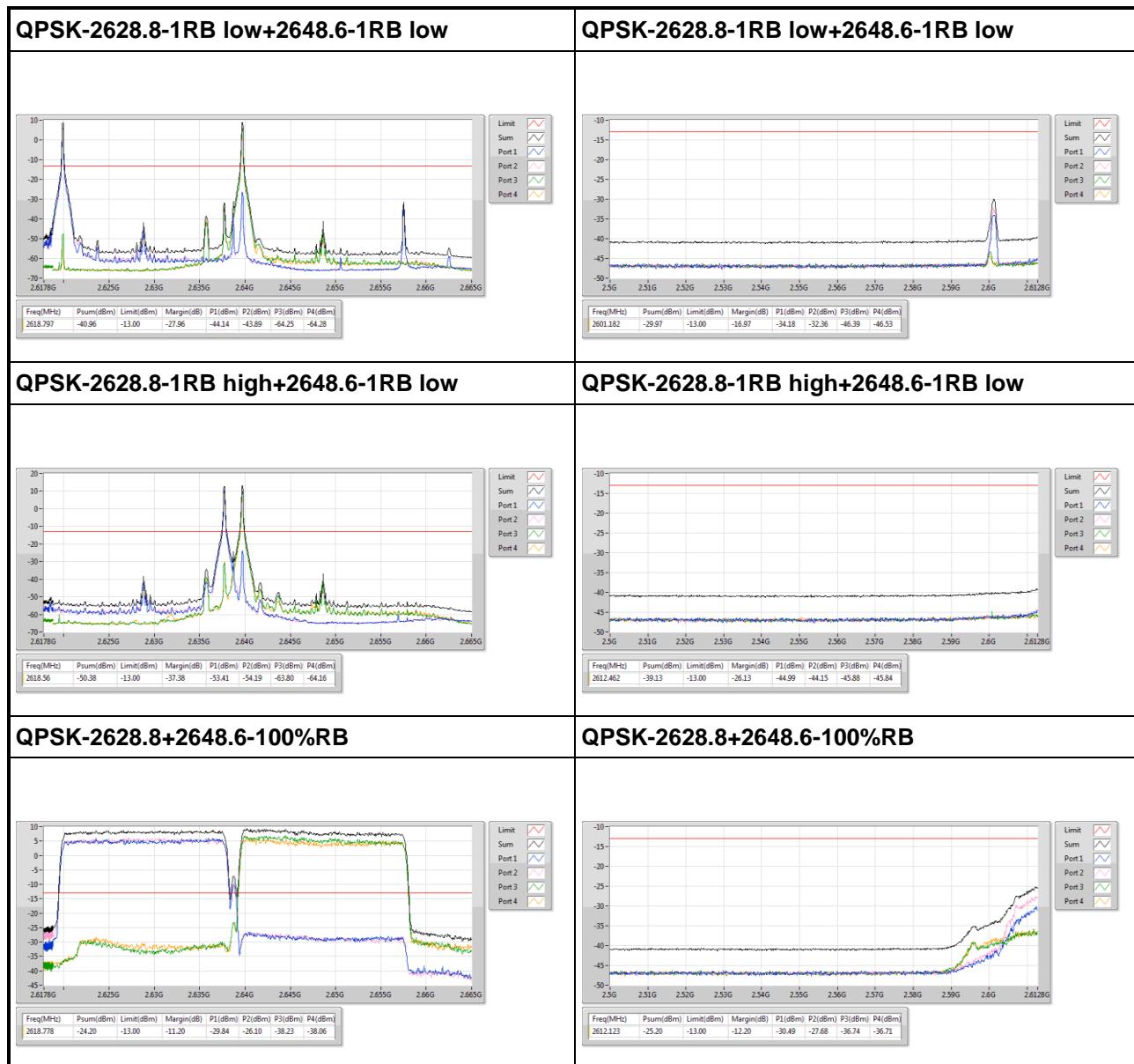


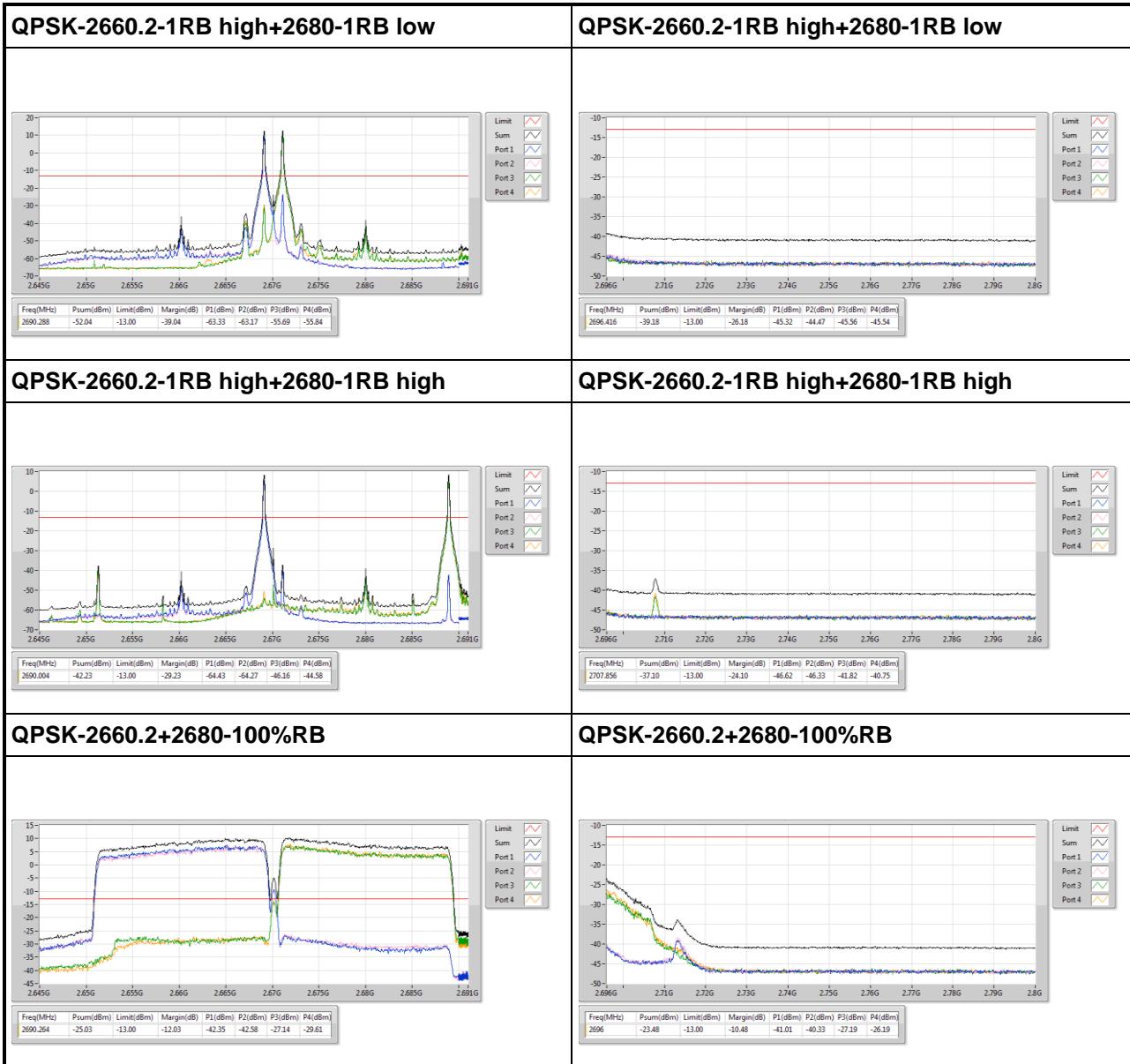
Worst Plot of 64QAM, High Channel

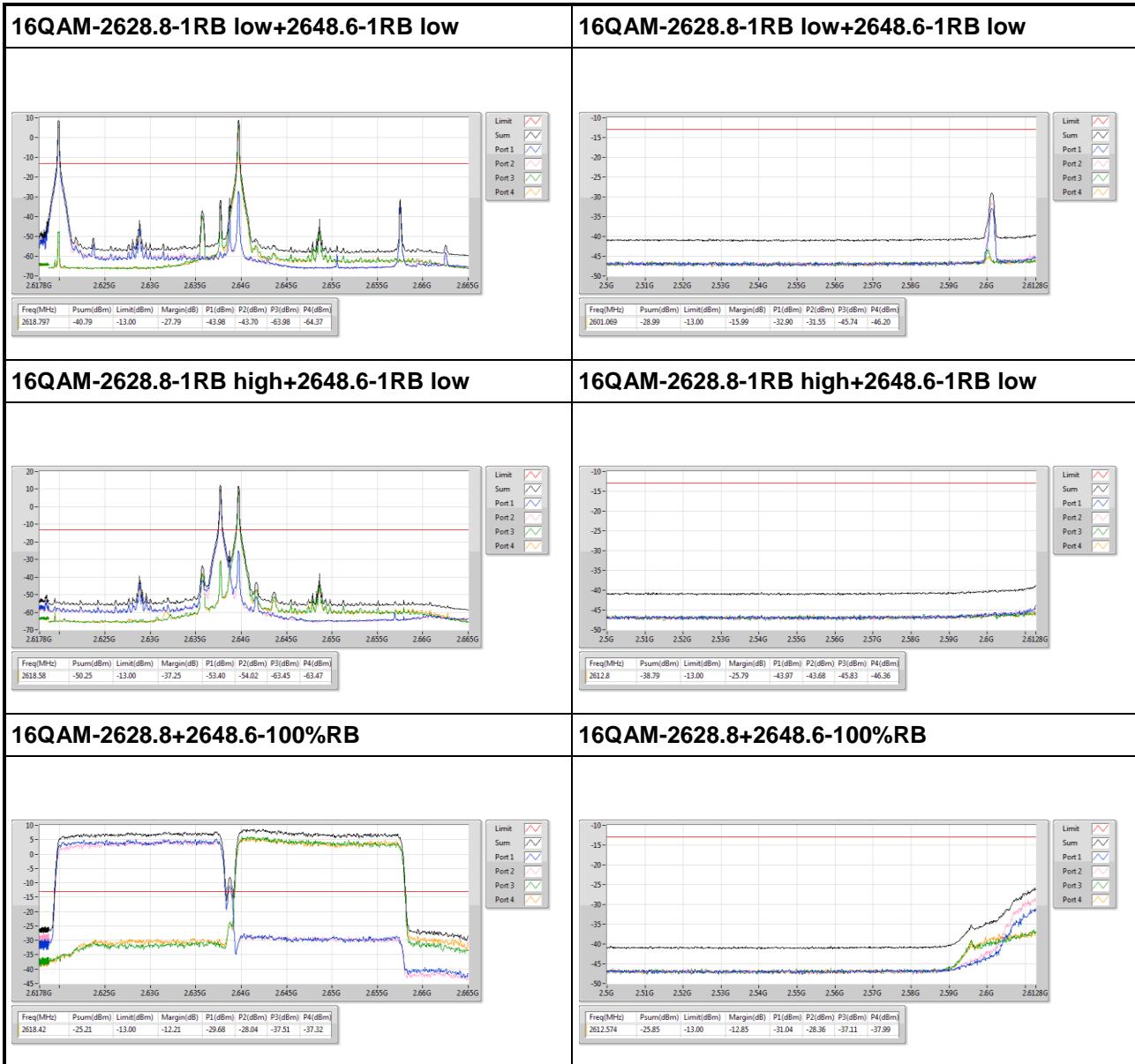


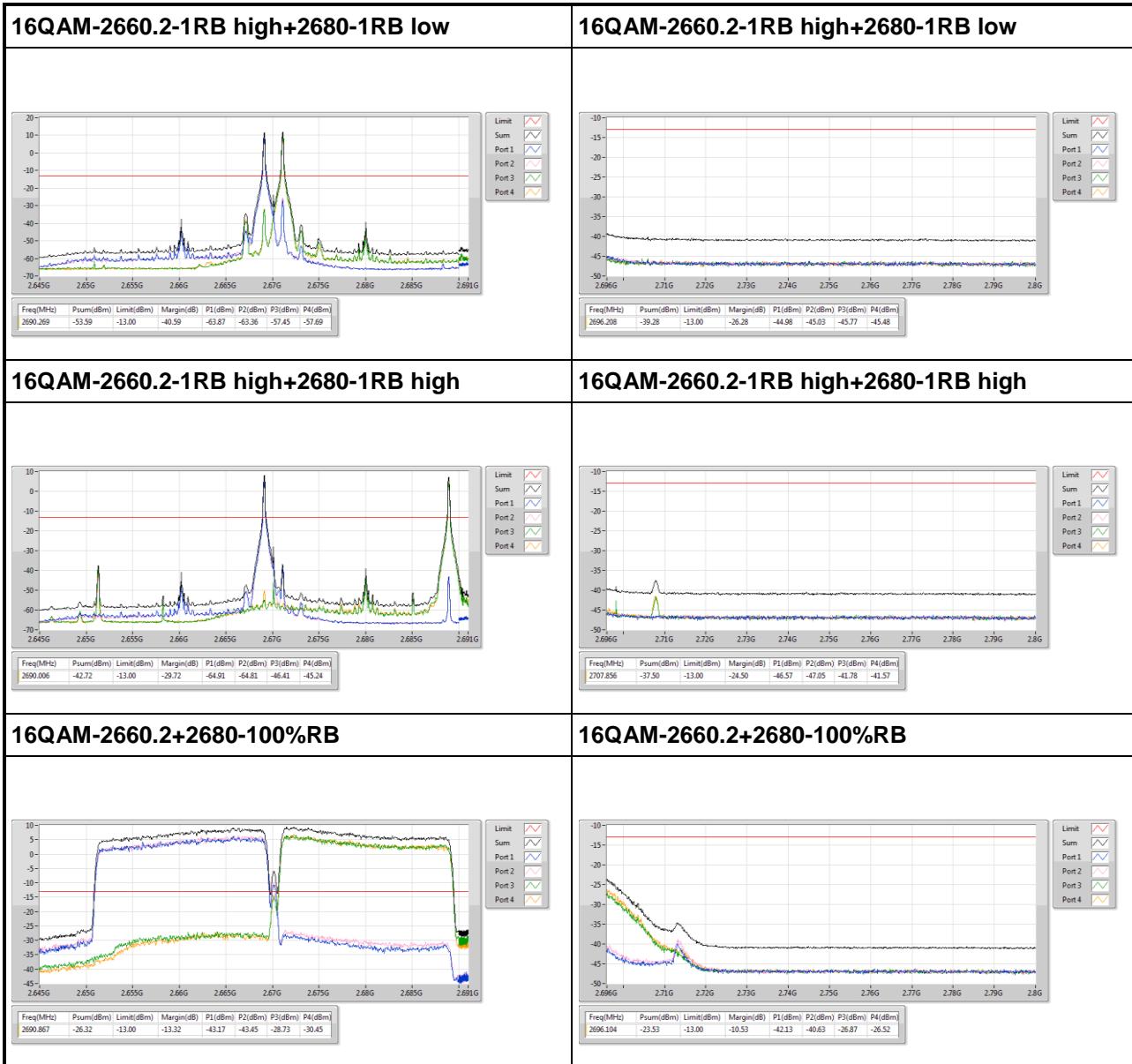
3.4.6 Test Result of Channel Edge_CA mode

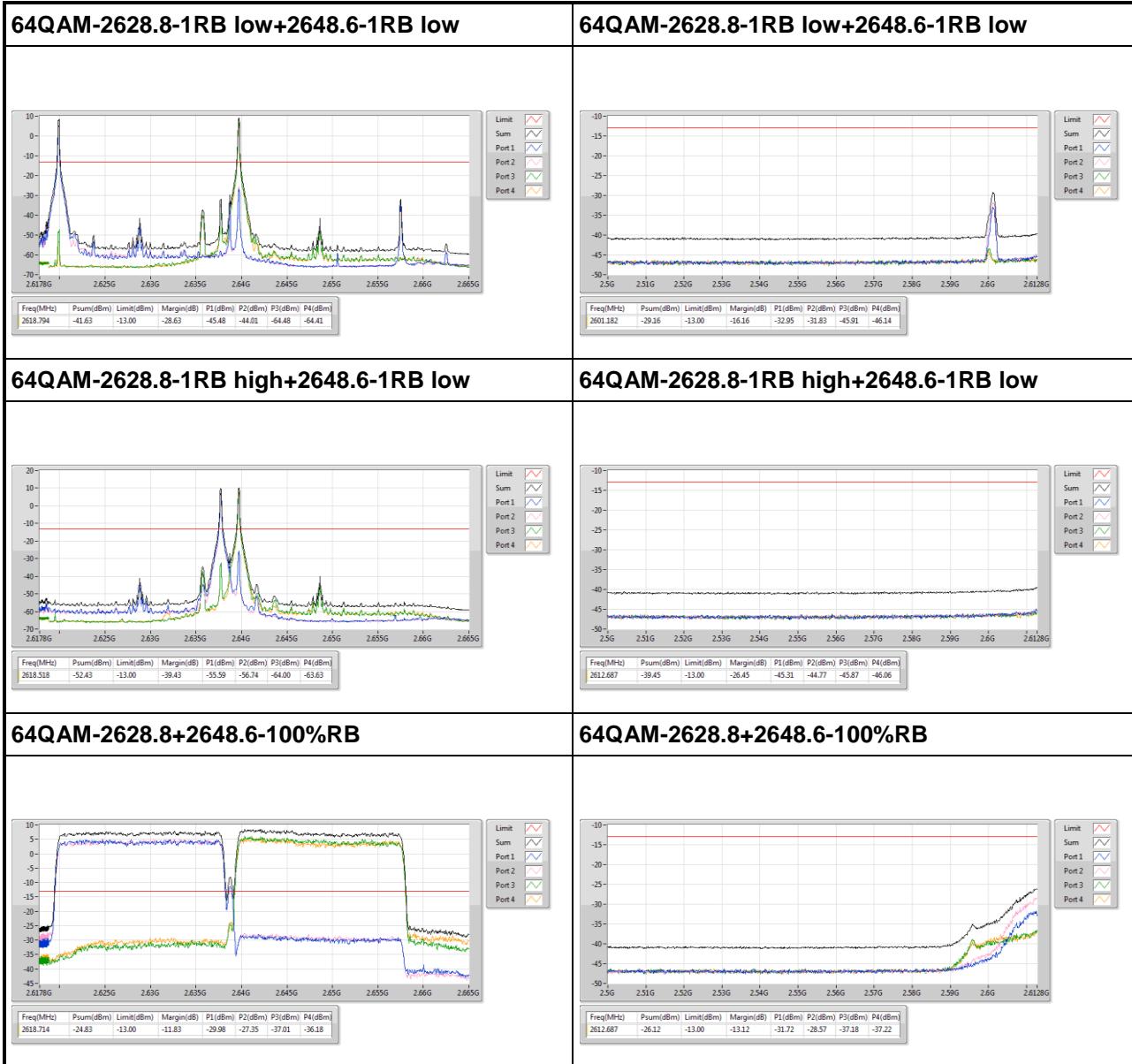
LTE Band 41, CB: 20MHz+20MHz

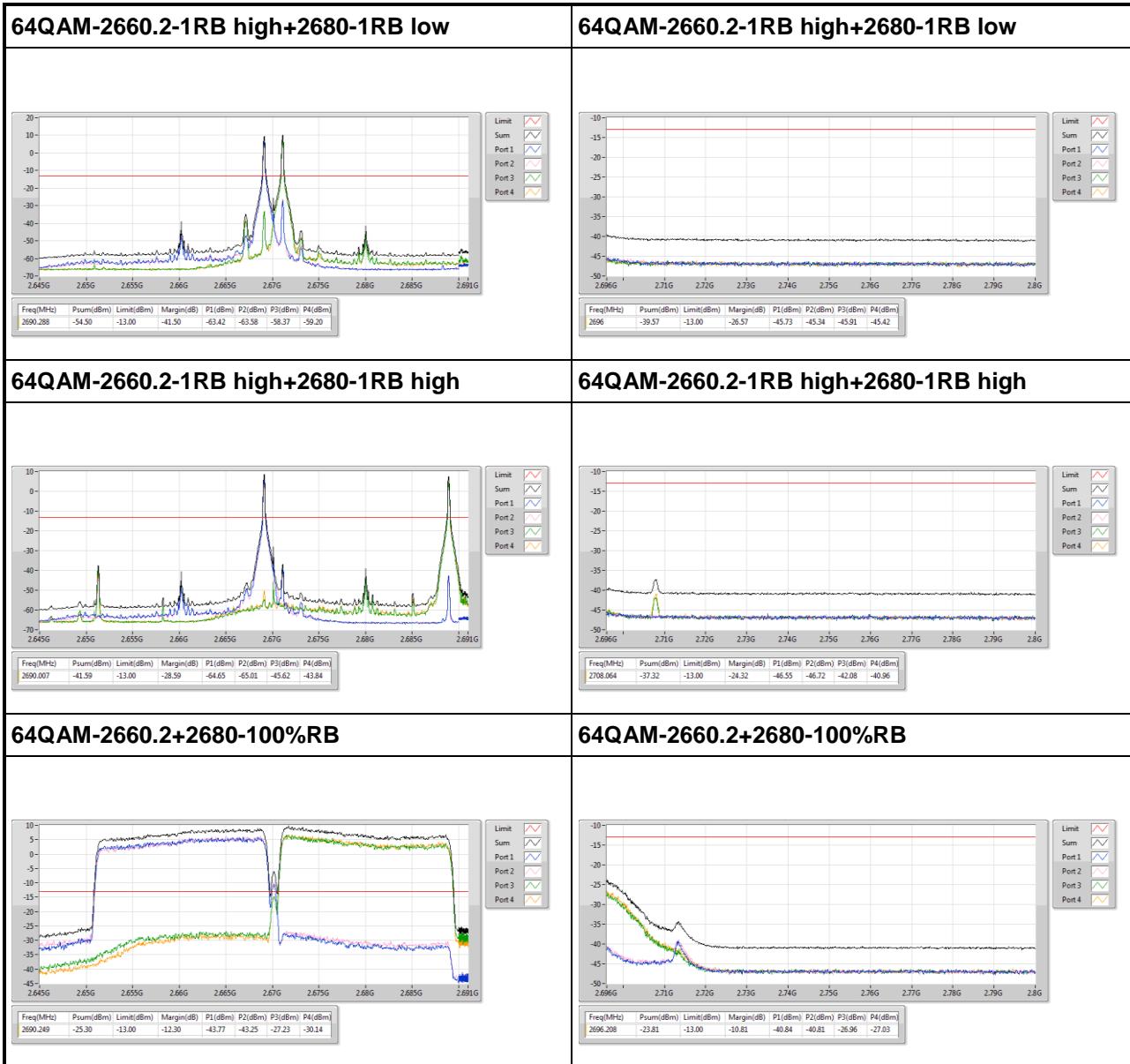










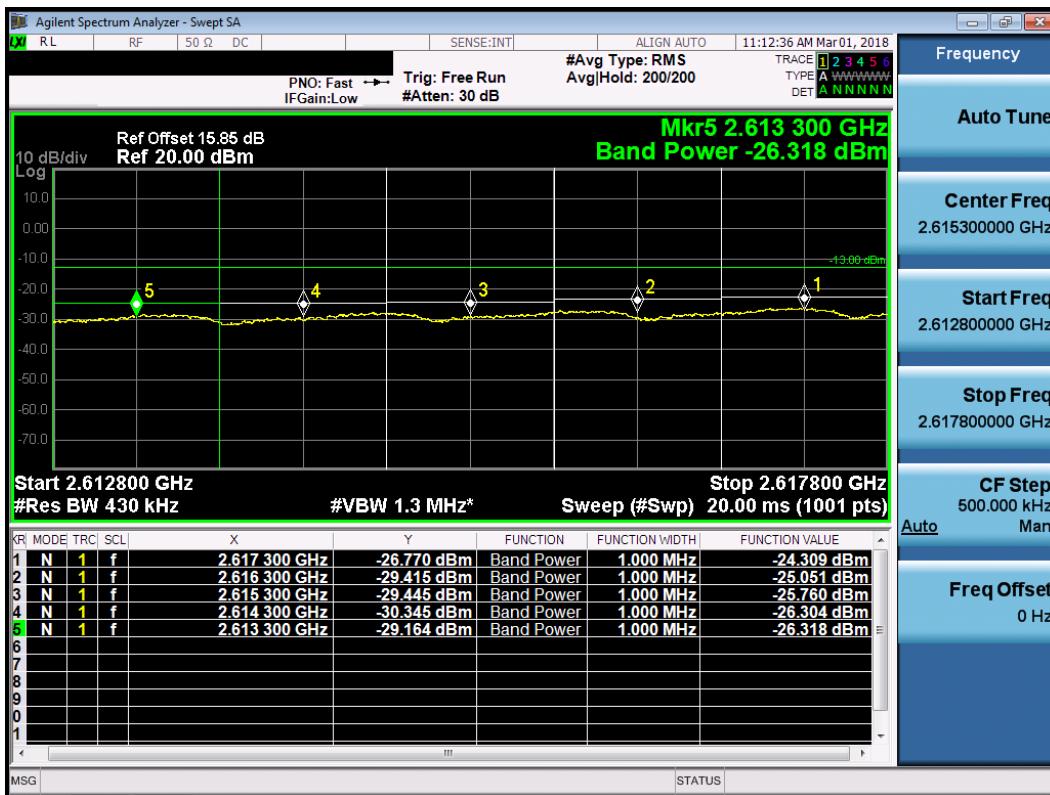


3.4.7 Measured Channel Edge Result_CA mode

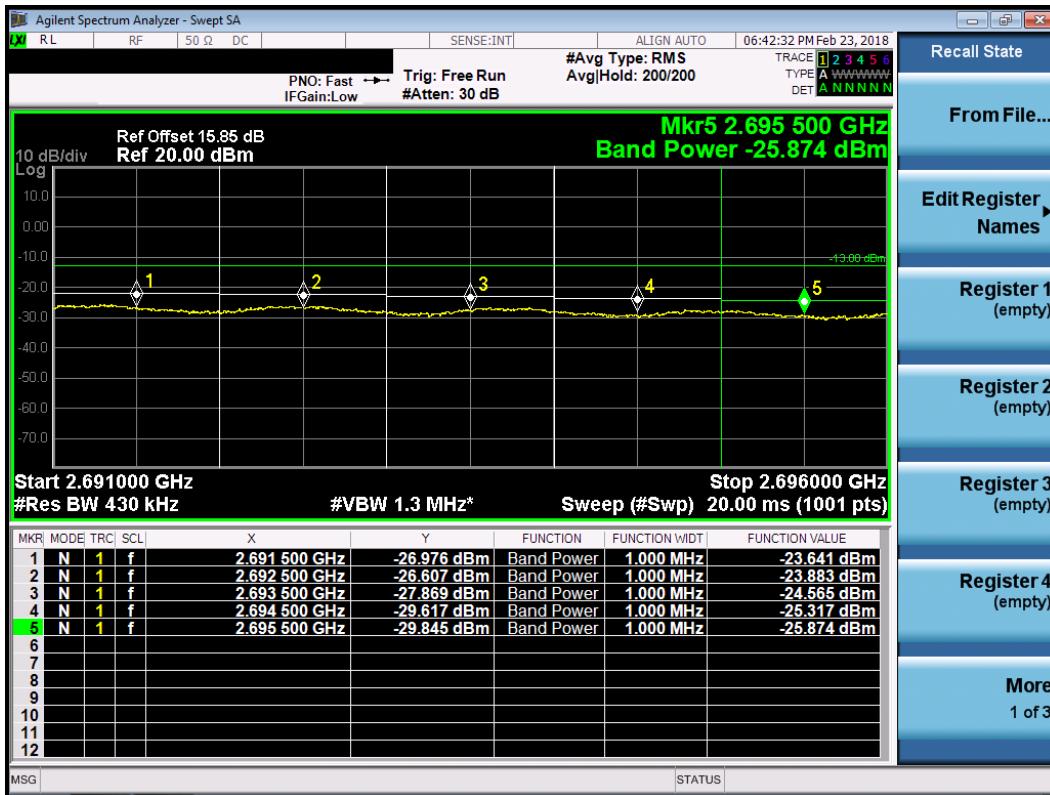
LTE Band 41, CB: 20MHz+20MHz, QPSK

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|-----------------|--------|--------|--------|--------|---------------|------------|------------|------------|------------|-------------|-------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2628.8 | 2648.6 | 1 | 0 | 1 | 0 | 2617.8~2616.8 | -38.169 | -38.125 | -44.750 | -44.793 | -34.28 | -13 |
| | | | | | | 2616.8~2615.8 | -38.151 | -37.975 | -44.759 | -44.844 | -34.22 | -13 |
| | | | | | | 2615.8~2614.8 | -41.698 | -41.582 | -44.792 | -44.872 | -36.93 | -13 |
| | | | | | | 2614.8~2613.8 | -42.986 | -42.809 | -44.881 | -44.979 | -37.77 | -13 |
| | | | | | | 2613.8~2612.8 | -43.856 | -43.621 | -44.924 | -45.041 | -38.29 | -13 |
| 2628.8 | 2648.6 | 1 | 99 | 1 | 0 | 2617.8~2616.8 | -37.657 | -37.904 | -43.864 | -44.011 | -33.83 | -13 |
| | | | | | | 2616.8~2615.8 | -38.647 | -38.965 | -43.975 | -44.032 | -34.65 | -13 |
| | | | | | | 2615.8~2614.8 | -40.146 | -40.288 | -43.940 | -44.182 | -35.71 | -13 |
| | | | | | | 2614.8~2613.8 | -41.178 | -41.376 | -44.097 | -44.293 | -36.47 | -13 |
| | | | | | | 2613.8~2612.8 | -42.434 | -42.435 | -44.278 | -44.430 | -37.27 | -13 |
| 2628.8 | 2648.6 | 100 | 0 | 100 | 0 | 2617.8~2616.8 | -27.676 | -24.309 | -34.632 | -34.376 | -22.13 | -13 |
| | | | | | | 2616.8~2615.8 | -27.732 | -25.051 | -35.043 | -34.828 | -22.63 | -13 |
| | | | | | | 2615.8~2614.8 | -28.001 | -25.760 | -35.271 | -35.201 | -23.15 | -13 |
| | | | | | | 2614.8~2613.8 | -28.855 | -26.304 | -35.393 | -35.622 | -23.76 | -13 |
| | | | | | | 2613.8~2612.8 | -29.606 | -26.318 | -35.309 | -35.891 | -24.00 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 99 | 2691~2692 | -44.662 | -44.675 | -39.176 | -38.880 | -34.97 | -13 |
| | | | | | | 2692~2693 | -44.595 | -44.653 | -38.127 | -37.789 | -34.10 | -13 |
| | | | | | | 2693~2694 | -44.675 | -44.664 | -42.005 | -41.634 | -36.99 | -13 |
| | | | | | | 2694~2695 | -44.798 | -44.802 | -43.221 | -42.927 | -37.83 | -13 |
| | | | | | | 2695~2696 | -44.895 | -44.875 | -44.155 | -43.877 | -38.41 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 0 | 2691~2692 | -40.209 | -42.916 | -40.561 | -40.223 | -34.82 | -13 |
| | | | | | | 2692~2693 | -40.782 | -42.704 | -41.120 | -40.727 | -35.24 | -13 |
| | | | | | | 2693~2694 | -41.862 | -42.908 | -42.257 | -41.853 | -36.18 | -13 |
| | | | | | | 2694~2695 | -42.745 | -43.137 | -43.174 | -42.781 | -36.93 | -13 |
| | | | | | | 2695~2696 | -43.922 | -43.424 | -44.199 | -43.922 | -37.84 | -13 |
| 2660.2 | 2680 | 100 | 0 | 100 | 0 | 2691~2692 | -38.503 | -37.939 | -23.641 | -24.920 | -21.05 | -13 |
| | | | | | | 2692~2693 | -38.118 | -37.890 | -23.883 | -24.855 | -21.15 | -13 |
| | | | | | | 2693~2694 | -38.349 | -37.937 | -24.565 | -25.219 | -21.67 | -13 |
| | | | | | | 2694~2695 | -38.741 | -37.750 | -25.317 | -25.699 | -22.27 | -13 |
| | | | | | | 2695~2696 | -39.645 | -38.663 | -25.874 | -26.201 | -22.82 | -13 |

Worst Plot of QPSK, Low Channel



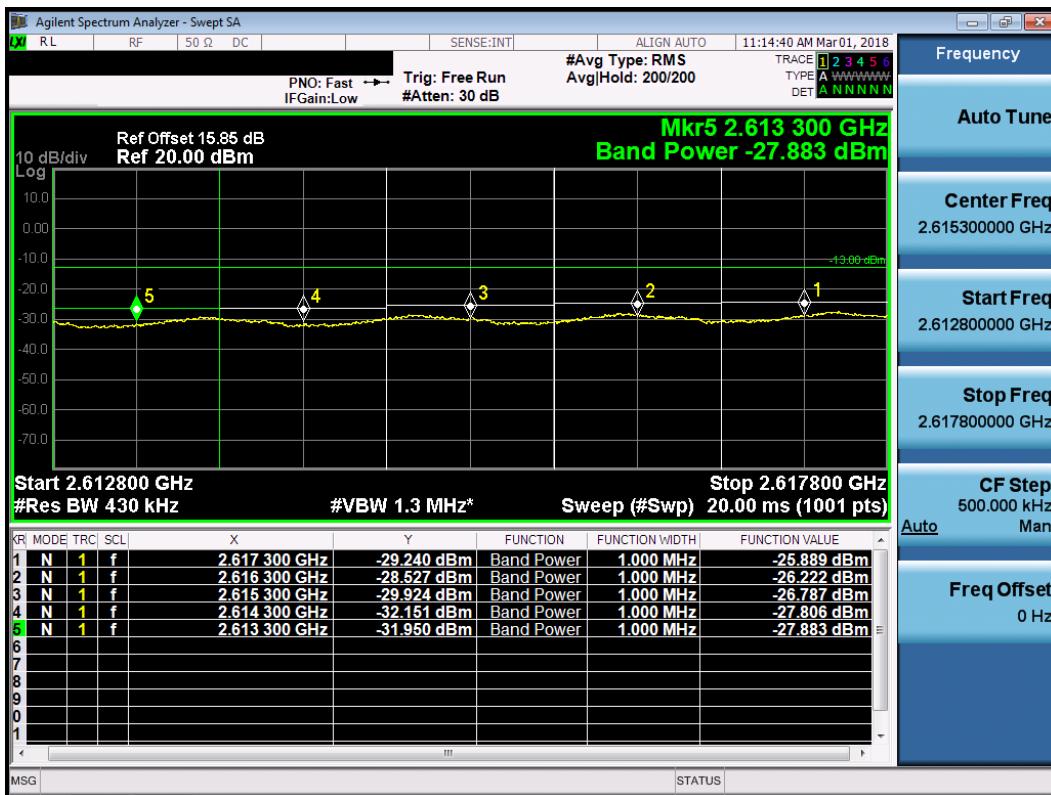
Worst Plot of QPSK, High Channel



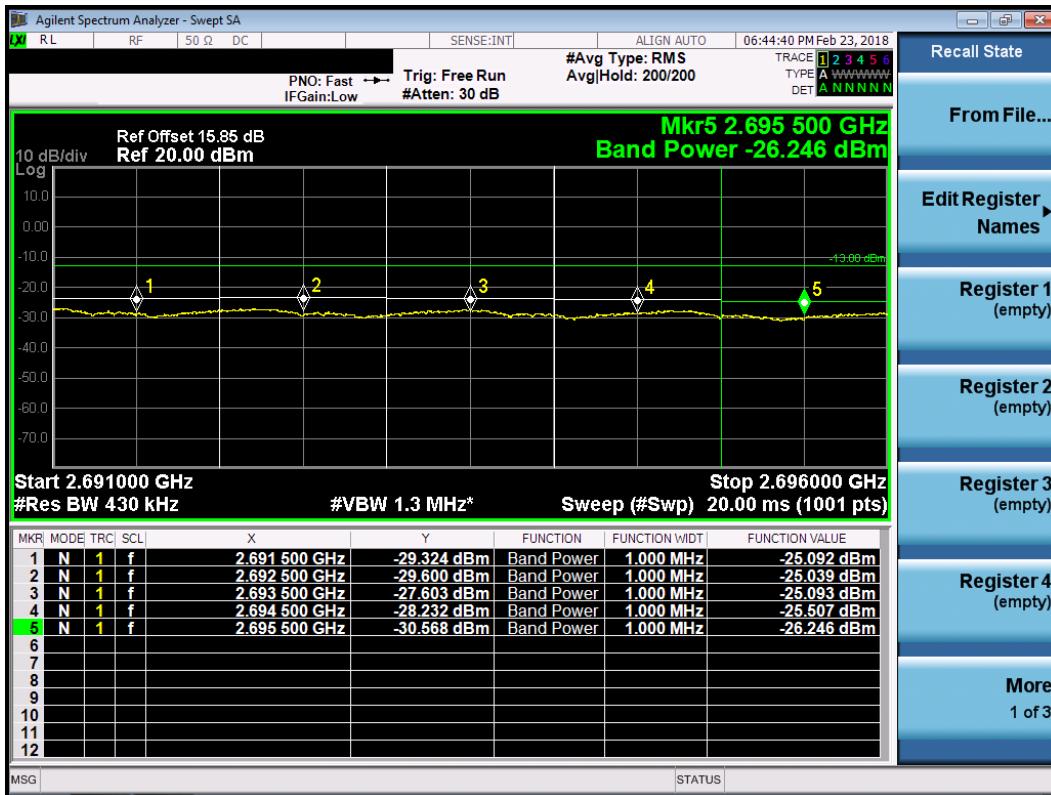
LTE Band 41, CB: 20MHz+20MHz, 16QAM

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|-----------------|--------|--------|--------|--------|---------------|------------|------------|------------|------------|-------------|-------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2628.8 | 2648.6 | 1 | 0 | 1 | 0 | 2617.8~2616.8 | -38.251 | -38.180 | -44.800 | -44.817 | -34.34 | -13 |
| | | | | | | 2616.8~2615.8 | -38.048 | -37.973 | -44.797 | -44.824 | -34.18 | -13 |
| | | | | | | 2615.8~2614.8 | -41.622 | -41.533 | -44.812 | -44.854 | -36.89 | -13 |
| | | | | | | 2614.8~2613.8 | -42.895 | -42.795 | -44.922 | -44.972 | -37.75 | -13 |
| | | | | | | 2613.8~2612.8 | -43.824 | -43.722 | -44.958 | -45.009 | -38.32 | -13 |
| 2628.8 | 2648.6 | 1 | 99 | 1 | 0 | 2617.8~2616.8 | -38.326 | -38.656 | -44.182 | -44.227 | -34.45 | -13 |
| | | | | | | 2616.8~2615.8 | -39.143 | -39.476 | -44.146 | -44.320 | -35.08 | -13 |
| | | | | | | 2615.8~2614.8 | -40.651 | -40.763 | -44.261 | -44.409 | -36.13 | -13 |
| | | | | | | 2614.8~2613.8 | -41.529 | -41.700 | -44.373 | -44.515 | -36.78 | -13 |
| | | | | | | 2613.8~2612.8 | -42.774 | -42.801 | -44.471 | -44.662 | -37.57 | -13 |
| 2628.8 | 2648.6 | 100 | 0 | 100 | 0 | 2617.8~2616.8 | -28.635 | -25.889 | -33.270 | -33.638 | -23.14 | -13 |
| | | | | | | 2616.8~2615.8 | -29.035 | -26.222 | -33.789 | -33.965 | -23.51 | -13 |
| | | | | | | 2615.8~2614.8 | -29.362 | -26.787 | -34.210 | -34.316 | -23.98 | -13 |
| | | | | | | 2614.8~2613.8 | -29.900 | -27.806 | -34.655 | -35.001 | -24.76 | -13 |
| | | | | | | 2613.8~2612.8 | -30.189 | -27.883 | -34.838 | -35.692 | -24.97 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 99 | 2691~2692 | -44.700 | -44.676 | -39.564 | -39.229 | -35.26 | -13 |
| | | | | | | 2692~2693 | -44.583 | -44.591 | -38.343 | -37.910 | -34.23 | -13 |
| | | | | | | 2693~2694 | -44.623 | -44.672 | -42.027 | -41.683 | -37.01 | -13 |
| | | | | | | 2694~2695 | -44.763 | -44.770 | -43.298 | -43.002 | -37.86 | -13 |
| | | | | | | 2695~2696 | -44.861 | -44.842 | -44.189 | -43.914 | -38.41 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 0 | 2691~2692 | -43.497 | -43.451 | -41.146 | -40.893 | -36.05 | -13 |
| | | | | | | 2692~2693 | -43.396 | -43.262 | -41.572 | -41.337 | -36.27 | -13 |
| | | | | | | 2693~2694 | -43.541 | -43.424 | -42.601 | -42.322 | -36.92 | -13 |
| | | | | | | 2694~2695 | -43.835 | -43.636 | -43.391 | -43.116 | -37.47 | -13 |
| | | | | | | 2695~2696 | -43.996 | -43.886 | -44.315 | -44.101 | -38.05 | -13 |
| 2660.2 | 2680 | 100 | 0 | 100 | 0 | 2691~2692 | -38.853 | -38.349 | -25.092 | -25.253 | -21.97 | -13 |
| | | | | | | 2692~2693 | -38.951 | -38.436 | -25.039 | -25.467 | -22.04 | -13 |
| | | | | | | 2693~2694 | -38.807 | -38.401 | -25.093 | -25.731 | -22.19 | -13 |
| | | | | | | 2694~2695 | -38.867 | -38.618 | -25.507 | -25.800 | -22.43 | -13 |
| | | | | | | 2695~2696 | -39.679 | -39.282 | -26.246 | -25.728 | -22.78 | -13 |

Worst Plot of 16QAM, Low Channel



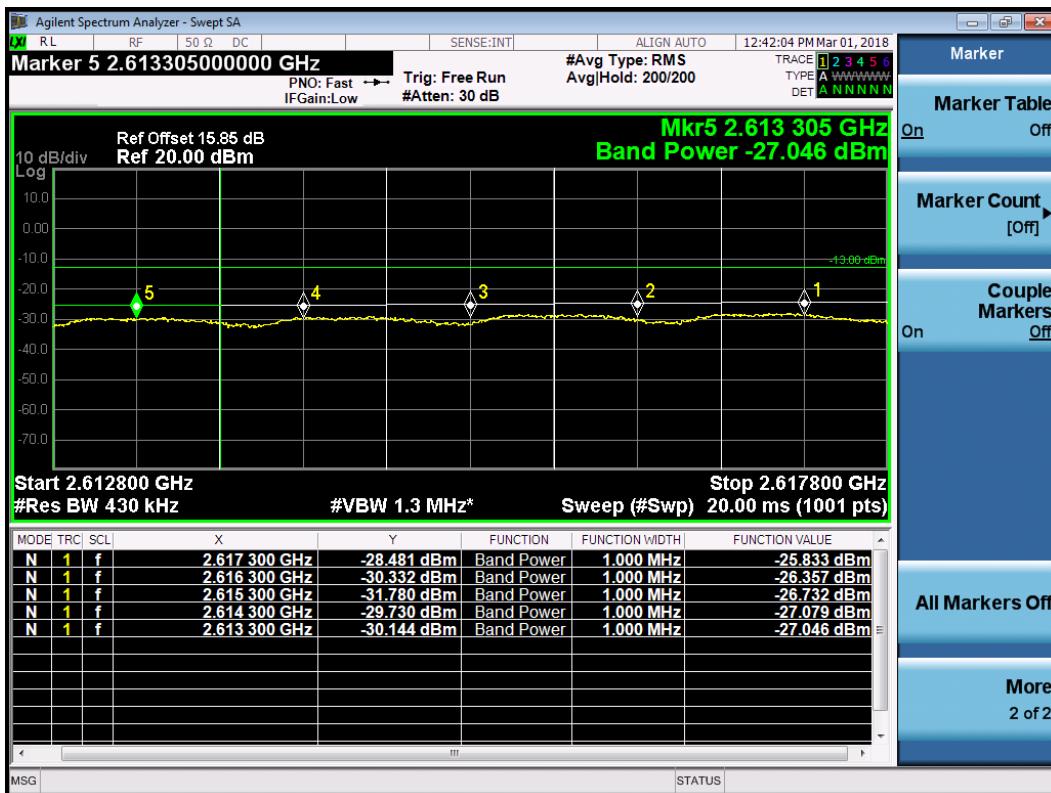
Worst Plot of 16QAM, High Channel



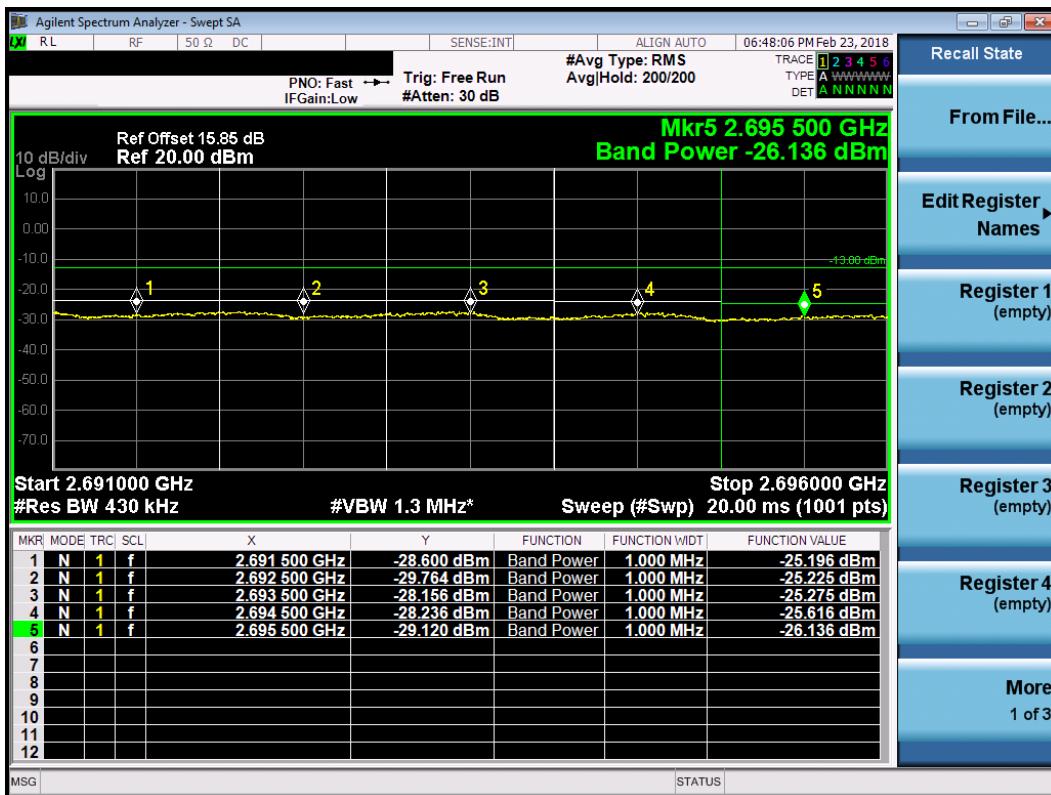
LTE Band 41, CB: 20MHz+20MHz, 64QAM

| Measured Channel Edge Result | | | | | | | | | | | | |
|------------------------------|-----------------|--------|--------|--------|--------|---------------|------------|------------|------------|------------|-------------|-------------|
| PCC Freq. (MHz) | SCC Freq. (MHz) | PCC RB | | SCC RB | | Range (MHz) | ANT0 (dBm) | ANT1 (dBm) | ANT2 (dBm) | ANT3 (dBm) | Total (dBm) | Limit (dBm) |
| | | size | offset | size | offset | | | | | | | |
| 2628.8 | 2648.6 | 1 | 0 | 1 | 0 | 2617.8~2616.8 | -38.287 | -38.350 | -44.765 | -44.821 | -34.43 | -13 |
| | | | | | | 2616.8~2615.8 | -38.051 | -37.965 | -44.725 | -44.847 | -34.17 | -13 |
| | | | | | | 2615.8~2614.8 | -41.719 | -41.610 | -44.804 | -44.880 | -36.95 | -13 |
| | | | | | | 2614.8~2613.8 | -42.969 | -42.846 | -44.831 | -44.995 | -37.77 | -13 |
| | | | | | | 2613.8~2612.8 | -43.820 | -43.710 | -44.934 | -45.038 | -38.31 | -13 |
| 2628.8 | 2648.6 | 1 | 99 | 1 | 0 | 2617.8~2616.8 | -39.905 | -40.273 | -44.451 | -44.576 | -35.74 | -13 |
| | | | | | | 2616.8~2615.8 | -40.727 | -40.973 | -44.470 | -44.638 | -36.30 | -13 |
| | | | | | | 2615.8~2614.8 | -41.899 | -42.206 | -44.534 | -44.673 | -37.12 | -13 |
| | | | | | | 2614.8~2613.8 | -42.618 | -42.752 | -44.592 | -44.712 | -37.54 | -13 |
| | | | | | | 2613.8~2612.8 | -43.611 | -43.703 | -44.707 | -44.869 | -38.16 | -13 |
| 2628.8 | 2648.6 | 100 | 0 | 100 | 0 | 2617.8~2616.8 | -28.746 | -25.833 | -33.228 | -33.461 | -23.12 | -13 |
| | | | | | | 2616.8~2615.8 | -28.775 | -26.357 | -33.877 | -33.859 | -23.51 | -13 |
| | | | | | | 2615.8~2614.8 | -29.022 | -26.732 | -34.269 | -34.426 | -23.86 | -13 |
| | | | | | | 2614.8~2613.8 | -29.613 | -27.079 | -34.659 | -35.166 | -24.32 | -13 |
| | | | | | | 2613.8~2612.8 | -30.028 | -27.046 | -34.854 | -35.693 | -24.48 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 99 | 2691~2692 | -44.722 | -44.735 | -39.716 | -39.516 | -35.44 | -13 |
| | | | | | | 2692~2693 | -44.545 | -44.623 | -38.289 | -37.717 | -34.12 | -13 |
| | | | | | | 2693~2694 | -44.633 | -44.642 | -41.956 | -41.646 | -36.97 | -13 |
| | | | | | | 2694~2695 | -44.756 | -44.789 | -43.256 | -43.072 | -37.87 | -13 |
| | | | | | | 2695~2696 | -44.872 | -44.826 | -44.110 | -43.936 | -38.40 | -13 |
| 2660.2 | 2680 | 1 | 99 | 1 | 0 | 2691~2692 | -44.164 | -44.144 | -42.107 | -42.140 | -37.00 | -13 |
| | | | | | | 2692~2693 | -43.984 | -43.941 | -42.496 | -42.528 | -37.16 | -13 |
| | | | | | | 2693~2694 | -44.131 | -44.039 | -43.297 | -43.377 | -37.67 | -13 |
| | | | | | | 2694~2695 | -44.335 | -44.160 | -43.923 | -43.829 | -38.04 | -13 |
| | | | | | | 2695~2696 | -44.440 | -44.312 | -44.635 | -44.667 | -38.49 | -13 |
| 2660.2 | 2680 | 100 | 0 | 100 | 0 | 2691~2692 | -38.939 | -38.240 | -25.196 | -27.112 | -22.80 | -13 |
| | | | | | | 2692~2693 | -38.838 | -38.195 | -25.225 | -27.165 | -22.84 | -13 |
| | | | | | | 2693~2694 | -38.708 | -38.500 | -25.275 | -26.991 | -22.80 | -13 |
| | | | | | | 2694~2695 | -38.943 | -38.573 | -25.616 | -26.907 | -22.97 | -13 |
| | | | | | | 2695~2696 | -39.724 | -39.002 | -26.136 | -27.112 | -23.36 | -13 |

Worst Plot of 64QAM, Low Channel



Worst Plot of 64QAM, High Channel



3.5 Emission and Occupied Bandwidth

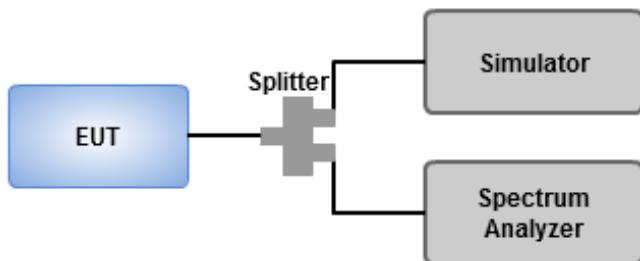
3.5.1 Test Procedures

1. Set as below setting for LTE mode

| Bandwidth (MHz) | RBW (kHz) | VBW (KHz) | Detector | Sweep time |
|-----------------|-----------|-----------|----------|------------|
| 5 | 56 | 180 | Peak | Auto |
| 10 | 100 | 300 | Peak | Auto |
| 15 | 150 | 470 | Peak | Auto |
| 20 | 200 | 620 | Peak | Auto |

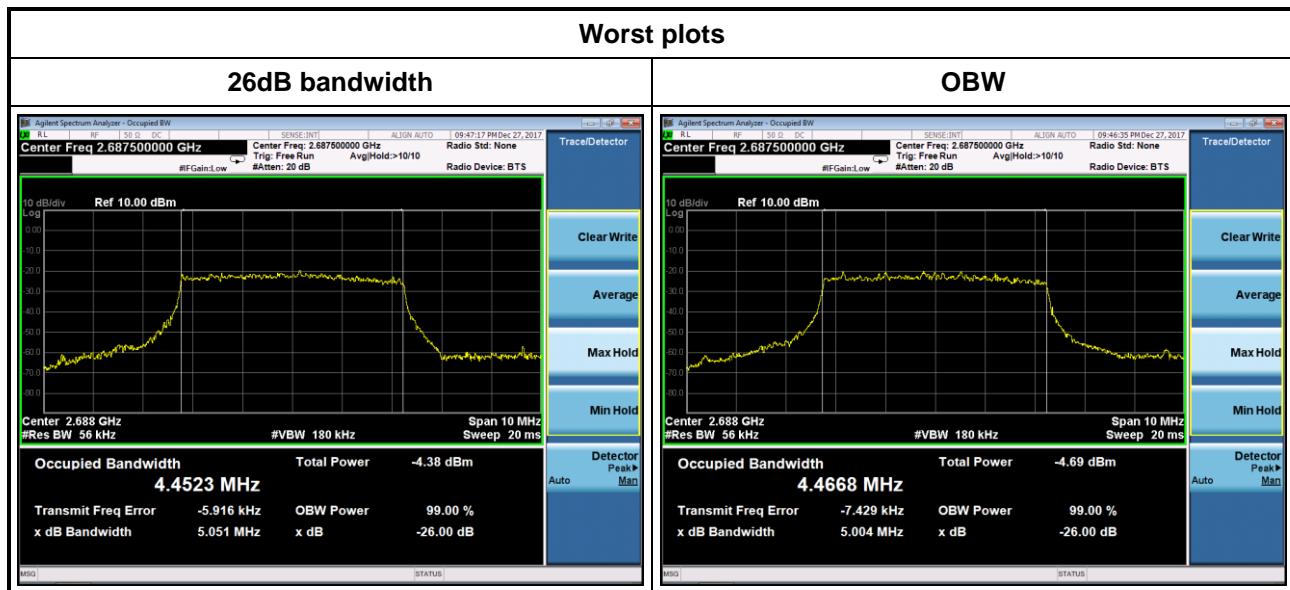
2. Set Detector = Peak, Trace mode = max hold, Sweep = auto couple, Allow the trace to stabilize.
3. Using 26dB and occupied bandwidth measurement function of spectrum analyzer to measure bandwidth.

3.5.2 Test Setup

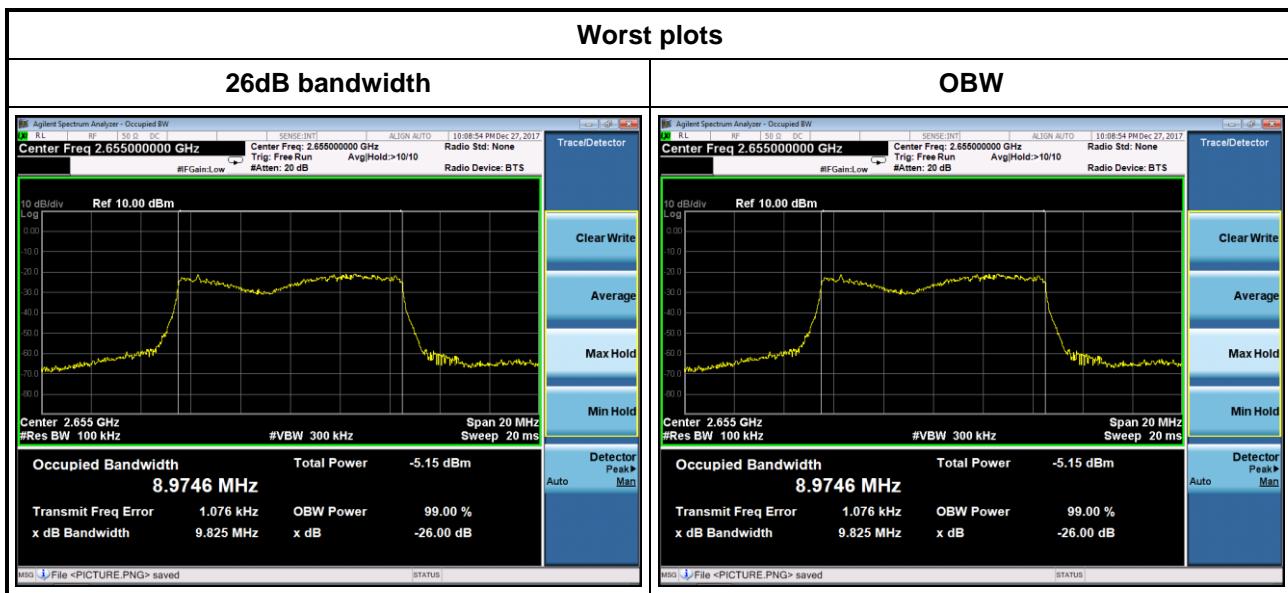


3.5.3 Test Result of Occupied Bandwidth_CDD mode

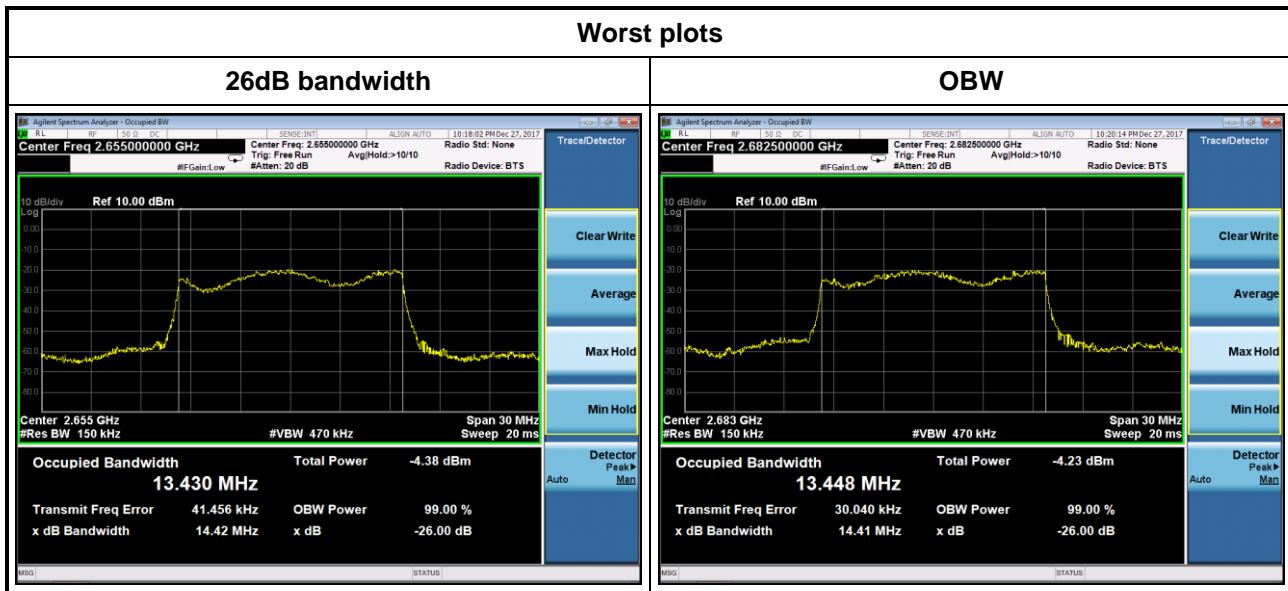
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 5 | QPSK | 2621.3 | 5.0360 | 4.4346 |
| 5 | QPSK | 2655.0 | 4.9710 | 4.4345 |
| 5 | QPSK | 2687.5 | 5.0070 | 4.4448 |
| 5 | 16QAM | 2621.3 | 4.9580 | 4.4401 |
| 5 | 16QAM | 2655.0 | 4.9230 | 4.4005 |
| 5 | 16QAM | 2687.5 | 5.0510 | 4.4523 |
| 5 | 64QAM | 2621.3 | 4.9700 | 4.4503 |
| 5 | 64QAM | 2655.0 | 4.9080 | 4.3887 |
| 5 | 64QAM | 2687.5 | 5.0040 | 4.4668 |



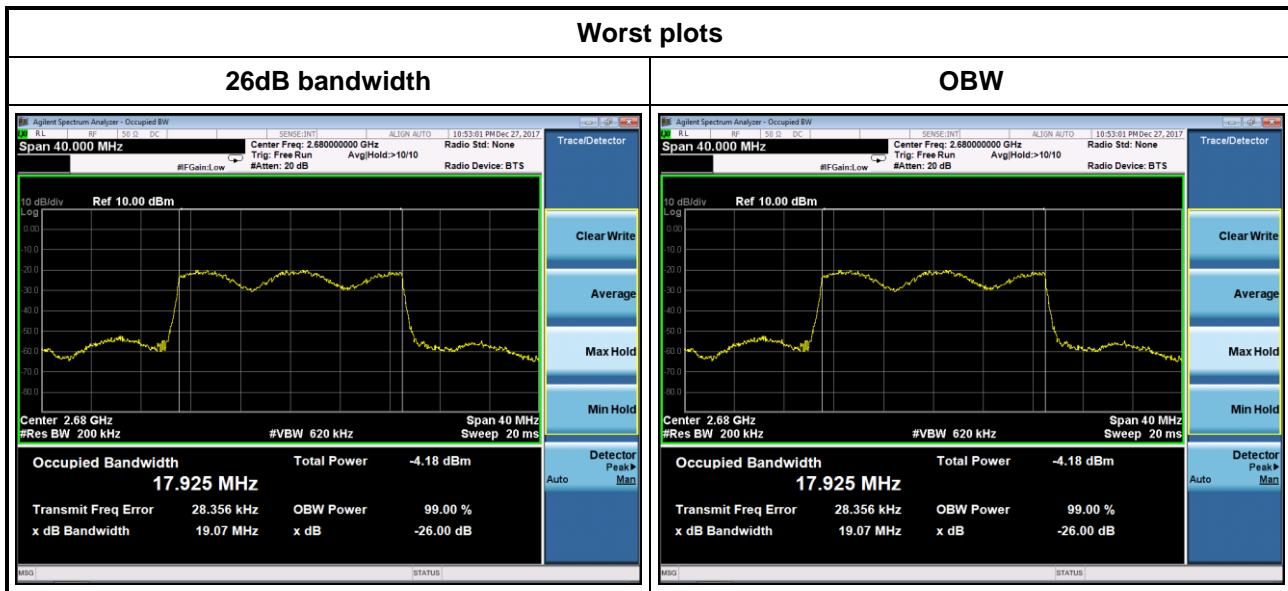
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 10 | QPSK | 2623.8 | 9.4130 | 8.7995 |
| 10 | QPSK | 2655.0 | 9.7130 | 8.9571 |
| 10 | QPSK | 2685.0 | 9.6690 | 8.9356 |
| 10 | 16QAM | 2623.8 | 9.4760 | 8.8546 |
| 10 | 16QAM | 2655.0 | 9.6970 | 8.9559 |
| 10 | 16QAM | 2685.0 | 9.5860 | 8.9268 |
| 10 | 64QAM | 2623.8 | 9.6450 | 8.8802 |
| 10 | 64QAM | 2655.0 | 9.8250 | 8.9746 |
| 10 | 64QAM | 2685.0 | 9.7970 | 8.9322 |



| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 15 | QPSK | 2626.3 | 14.2400 | 13.4000 |
| 15 | QPSK | 2655.0 | 14.3700 | 13.4380 |
| 15 | QPSK | 2682.5 | 14.4100 | 13.4480 |
| 15 | 16QAM | 2626.3 | 14.3400 | 13.3730 |
| 15 | 16QAM | 2655.0 | 14.4200 | 13.4300 |
| 15 | 16QAM | 2682.5 | 14.3700 | 13.4340 |
| 15 | 64QAM | 2626.3 | 14.3300 | 13.3430 |
| 15 | 64QAM | 2655.0 | 14.3000 | 13.4200 |
| 15 | 64QAM | 2682.5 | 14.4100 | 13.4280 |



| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 20 | QPSK | 2628.8 | 18.9600 | 17.8740 |
| 20 | QPSK | 2655.0 | 18.8300 | 17.7420 |
| 20 | QPSK | 2680.0 | 19.0700 | 17.9250 |
| 20 | 16QAM | 2628.8 | 18.9700 | 17.8510 |
| 20 | 16QAM | 2655.0 | 18.7400 | 17.6910 |
| 20 | 16QAM | 2680.0 | 19.0100 | 17.8990 |
| 20 | 64QAM | 2628.8 | 18.9700 | 17.8640 |
| 20 | 64QAM | 2655.0 | 18.8200 | 17.6780 |
| 20 | 64QAM | 2680.0 | 19.0300 | 17.9110 |



3.5.4 Test Result of Occupied Bandwidth_CA mode

| Channel Bandwidth (MHz) | Modulation | PCC Freq. (MHz) | PCC Freq. (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|-----------------|---------------|---------------|
| 20+20 | QPSK | 2628.8 | 2648.6 | 39.0600 | 37.4240 |
| 20+20 | QPSK | 2645.6 | 2665.4 | 38.8200 | 36.8570 |
| 20+20 | QPSK | 2660.2 | 2680.0 | 38.9300 | 37.3100 |
| 20+20 | 16QAM | 2628.8 | 2648.6 | 39.0500 | 37.3550 |
| 20+20 | 16QAM | 2645.6 | 2665.4 | 38.7300 | 36.7190 |
| 20+20 | 16QAM | 2660.2 | 2680.0 | 38.9700 | 37.2560 |
| 20+20 | 64QAM | 2628.8 | 2648.6 | 39.3000 | 37.3170 |
| 20+20 | 64QAM | 2645.6 | 2665.4 | 38.7400 | 36.6210 |
| 20+20 | 64QAM | 2660.2 | 2680.0 | 39.2300 | 37.1450 |



3.6 Frequency Stability

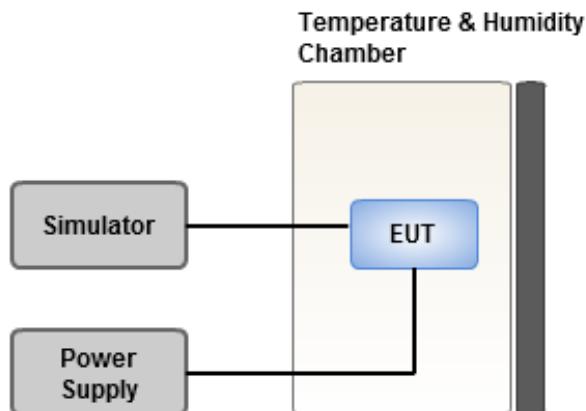
3.6.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation

3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -40~60°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability_CDD mode

| Temperature (°C) | Voltage (ac) | Frequency Drift (ppm) | | | |
|------------------|--------------|-----------------------|-----------|-----------|-----------|
| | | CB: 5MHz | CB: 10MHz | CB: 15MHz | CB: 20MHz |
| 60 | 120 | -0.012 | -0.013 | -0.015 | -0.014 |
| 50 | 120 | -0.013 | -0.012 | -0.014 | -0.013 |
| 40 | 120 | -0.012 | -0.015 | -0.013 | -0.014 |
| 30 | 120 | -0.013 | -0.014 | -0.016 | -0.012 |
| 20 | 120 | -0.012 | -0.016 | -0.015 | -0.015 |
| 10 | 120 | -0.015 | -0.013 | -0.013 | -0.013 |
| 0 | 120 | -0.012 | -0.012 | -0.014 | -0.014 |
| -10 | 120 | -0.013 | -0.016 | -0.015 | -0.015 |
| -20 | 120 | -0.012 | -0.015 | -0.016 | -0.016 |
| -30 | 120 | -0.013 | -0.012 | -0.015 | -0.018 |
| -40 | 120 | -0.012 | -0.014 | -0.016 | -0.017 |
| 20 | 138 | -0.014 | -0.015 | -0.017 | -0.018 |
| 20 | 102 | -0.015 | -0.014 | -0.014 | -0.019 |

3.6.5 Test Result of Frequency Stability_CA mode

| Temperature (°C) | Voltage (ac) | Frequency Drift (ppm) | |
|------------------|--------------|-----------------------|--------|
| | | CB: 20MHz+20MHz | |
| 60 | 120 | | -0.012 |
| 50 | 120 | | -0.012 |
| 40 | 120 | | -0.013 |
| 30 | 120 | | -0.014 |
| 20 | 120 | | -0.013 |
| 10 | 120 | | -0.016 |
| 0 | 120 | | -0.015 |
| -10 | 120 | | -0.013 |
| -20 | 120 | | -0.014 |
| -30 | 120 | | -0.013 |
| -40 | 120 | | -0.014 |
| 20 | 138 | | -0.013 |
| 20 | 102 | | -0.015 |

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

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Email: ICC_Service@icertifi.com.tw

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