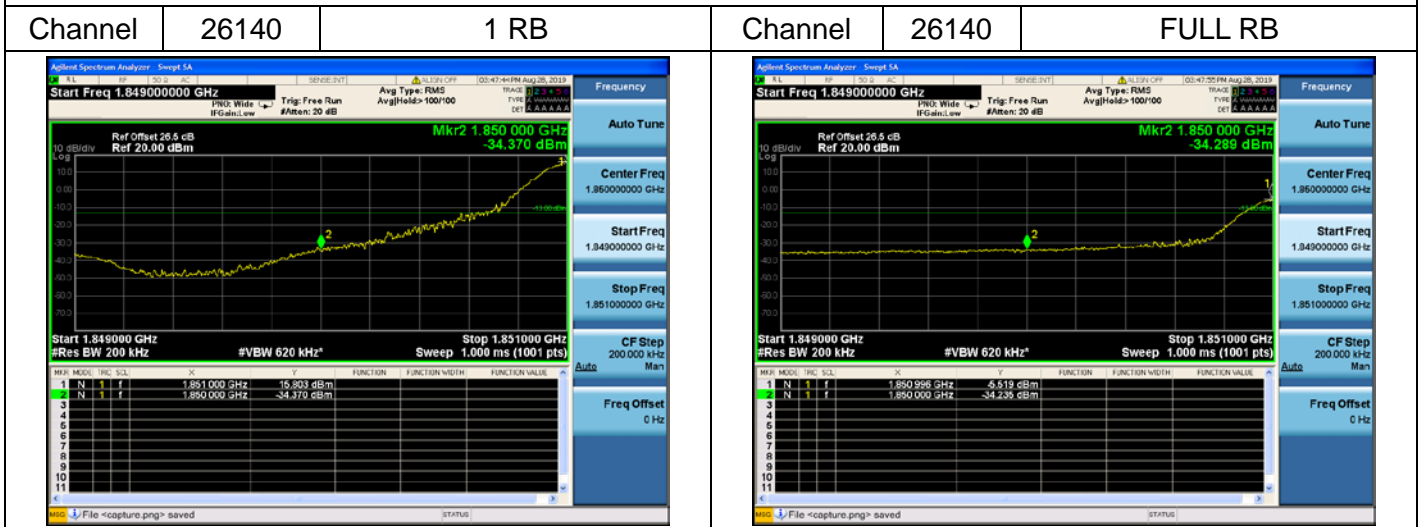


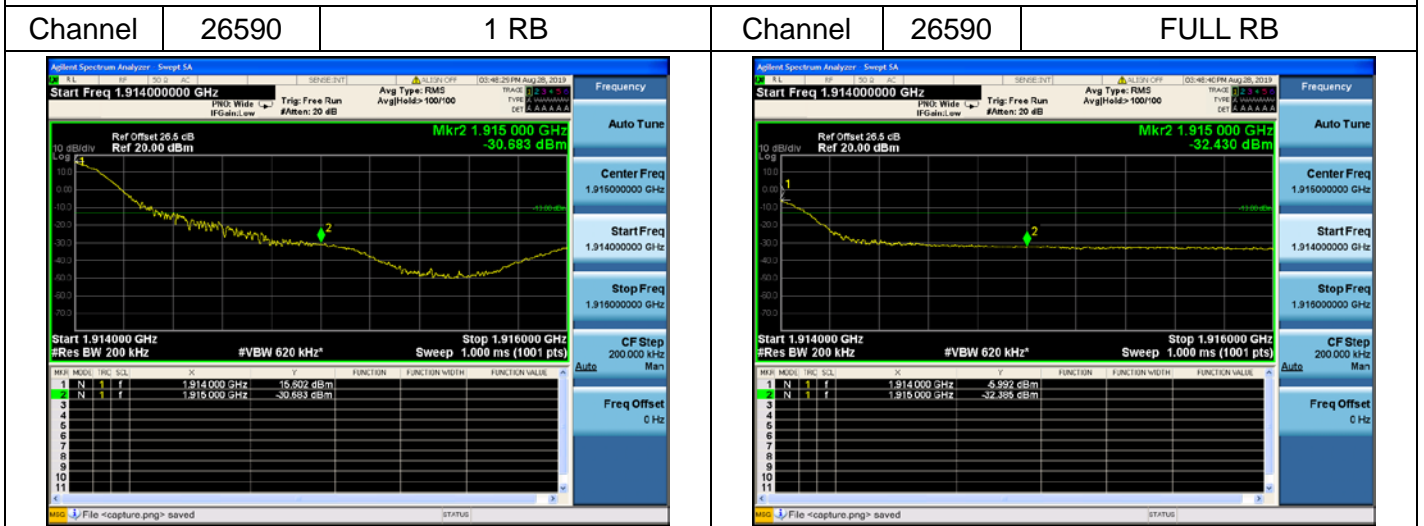


LTE Band 25

Channel Bandwidth: 20MHz



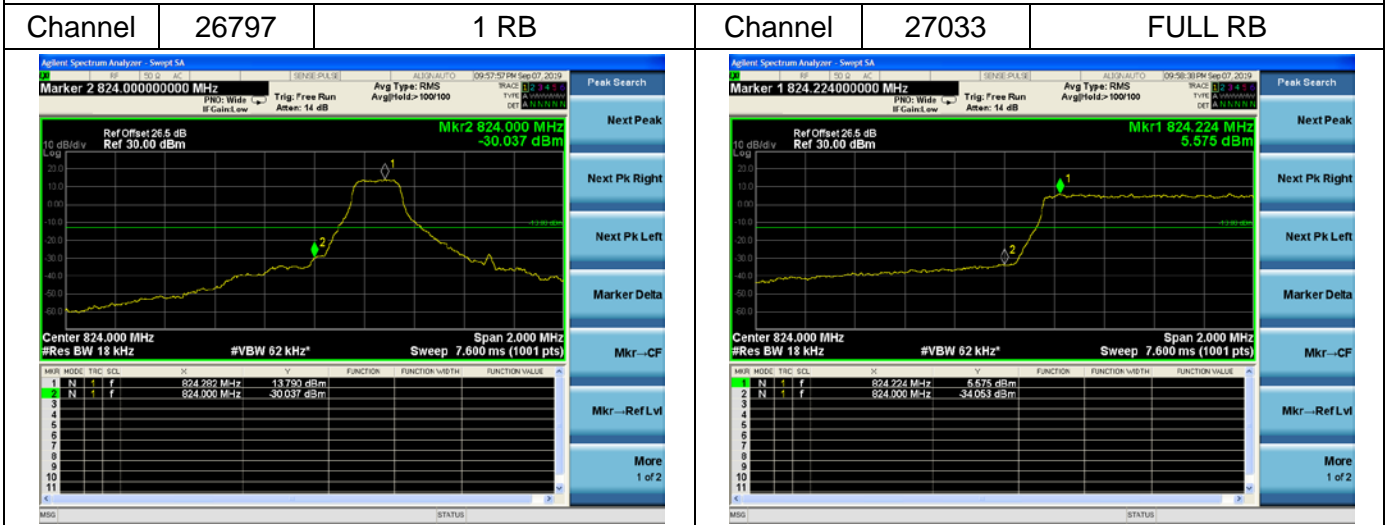
Channel Bandwidth: 20MHz



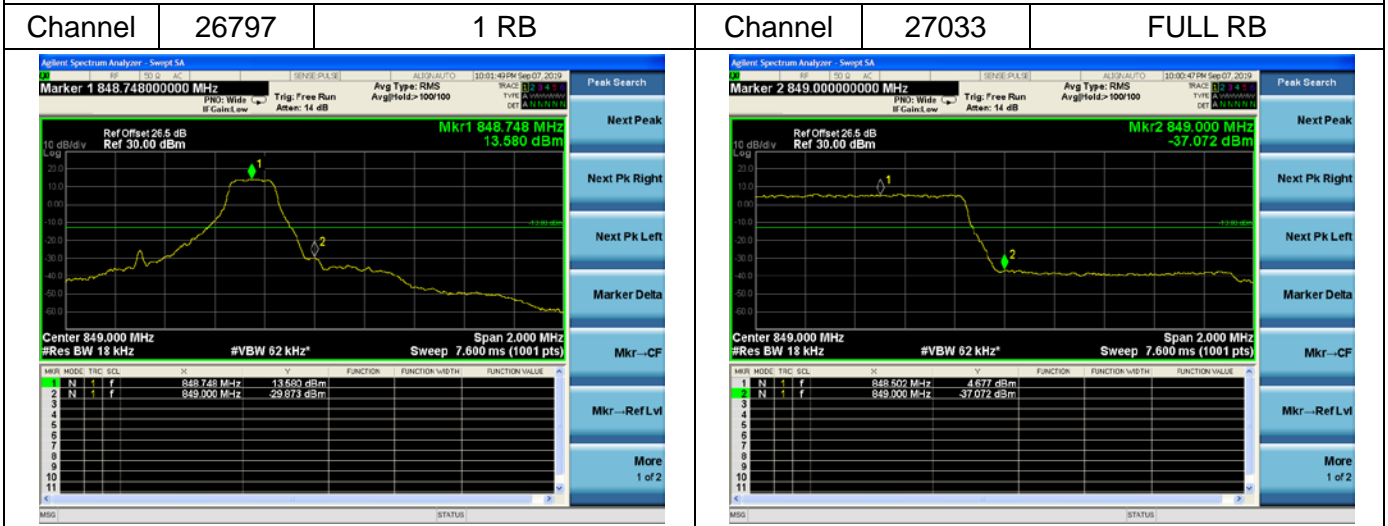


LTE Band 26

Channel Bandwidth: 1.4MHz



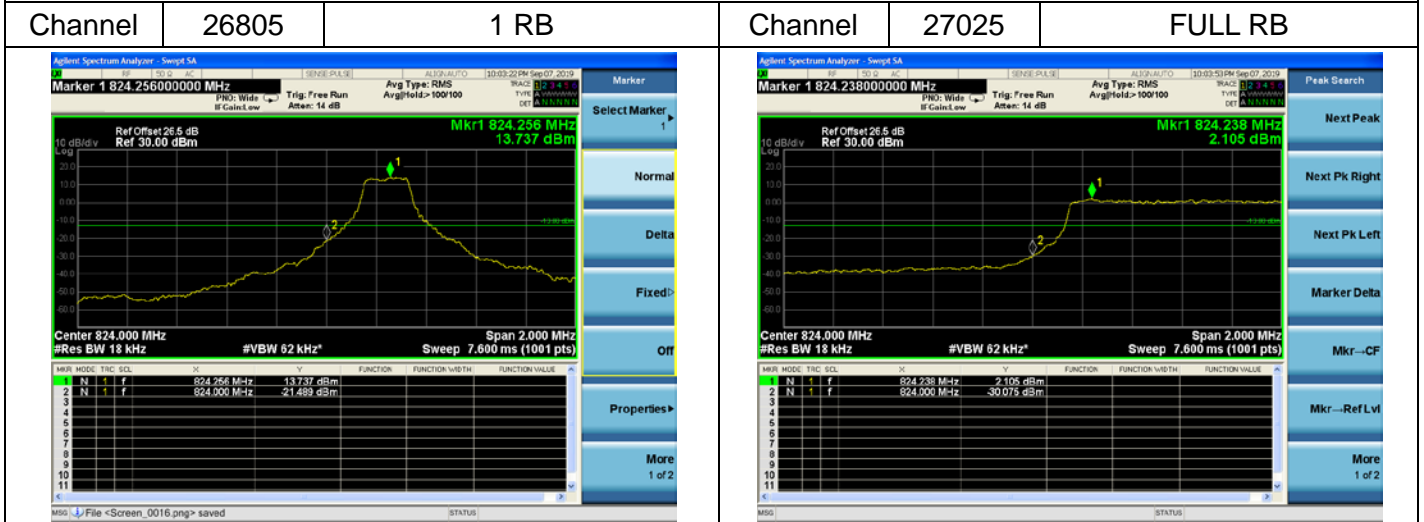
Channel Bandwidth: 1.4MHz



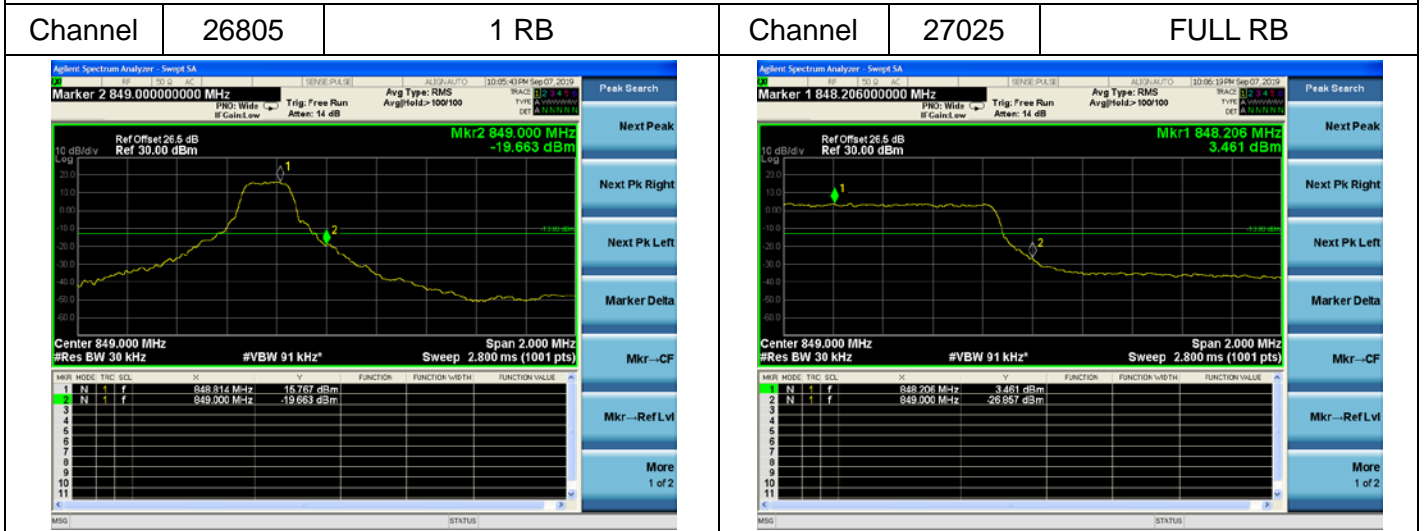


LTE Band 26

Channel Bandwidth: 3MHz



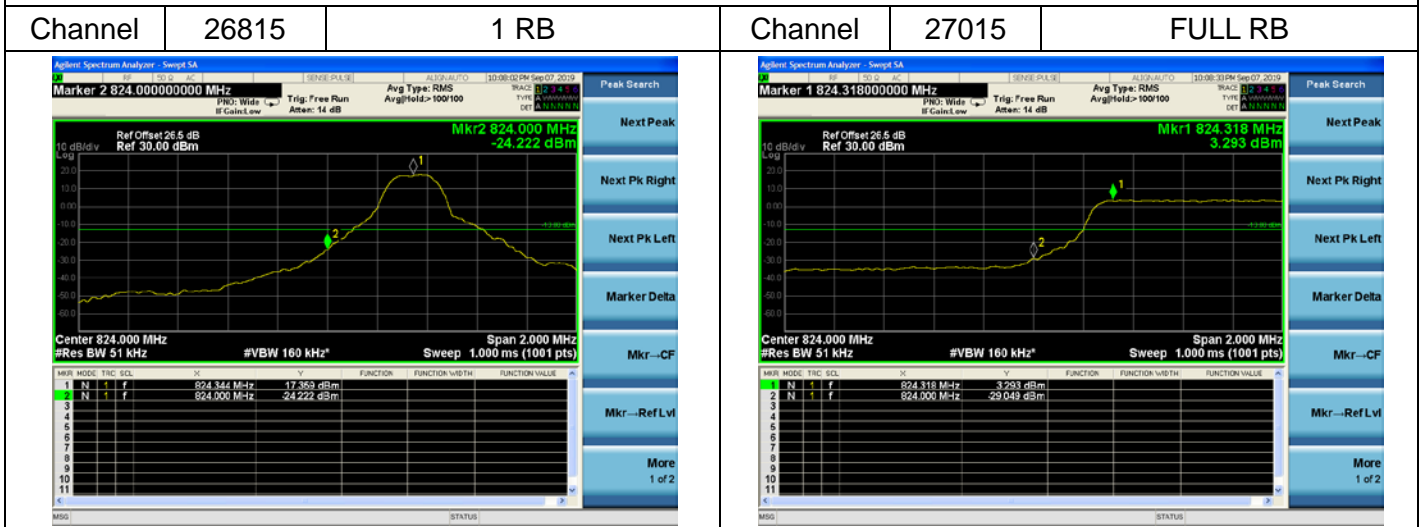
Channel Bandwidth: 3MHz



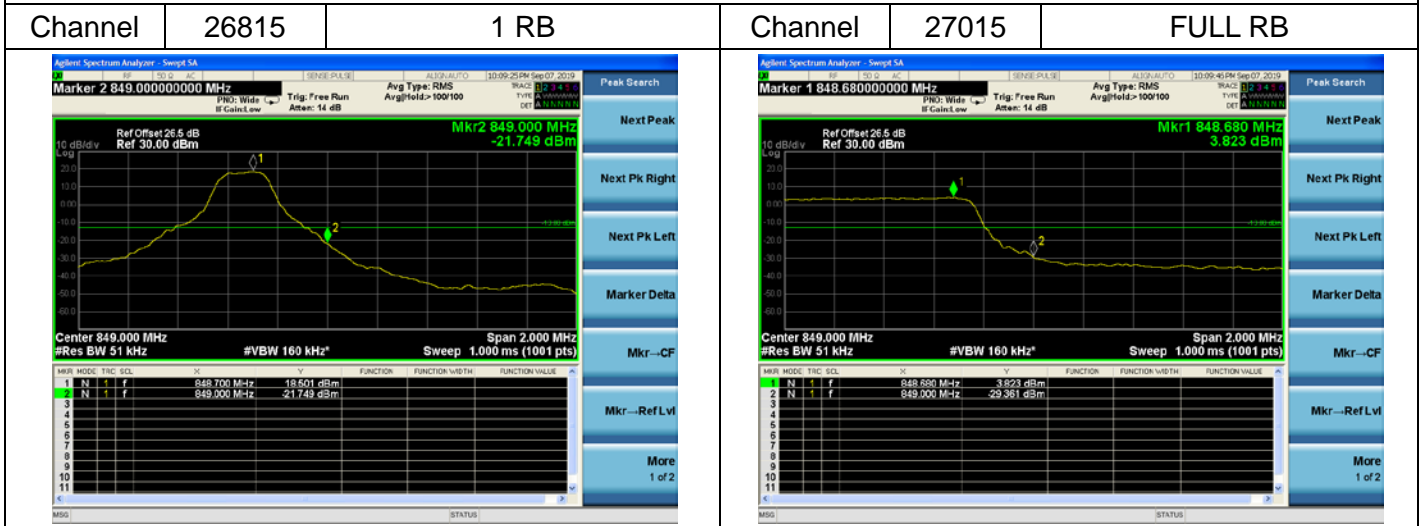


LTE Band 26

Channel Bandwidth: 5MHz



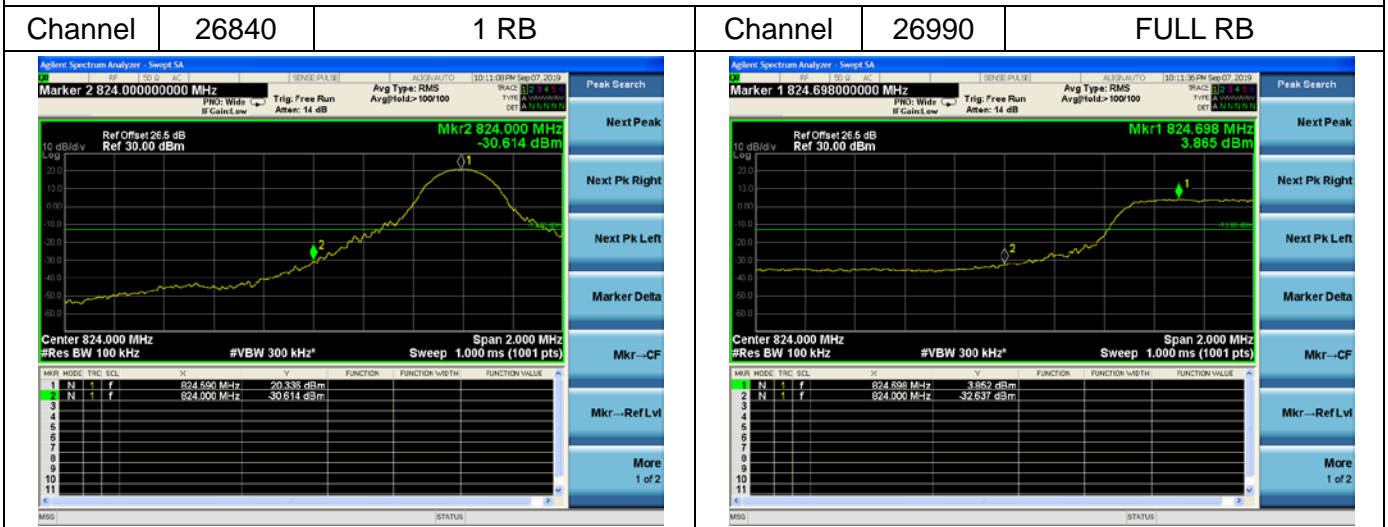
Channel Bandwidth: 5MHz



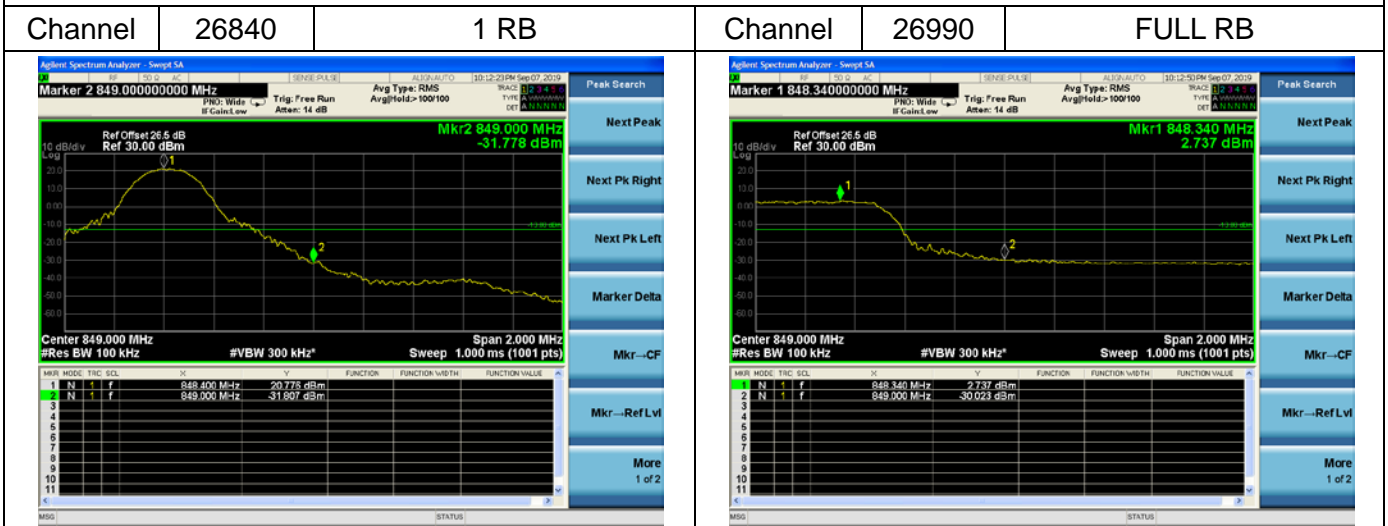


LTE Band 26

Channel Bandwidth: 10MHz



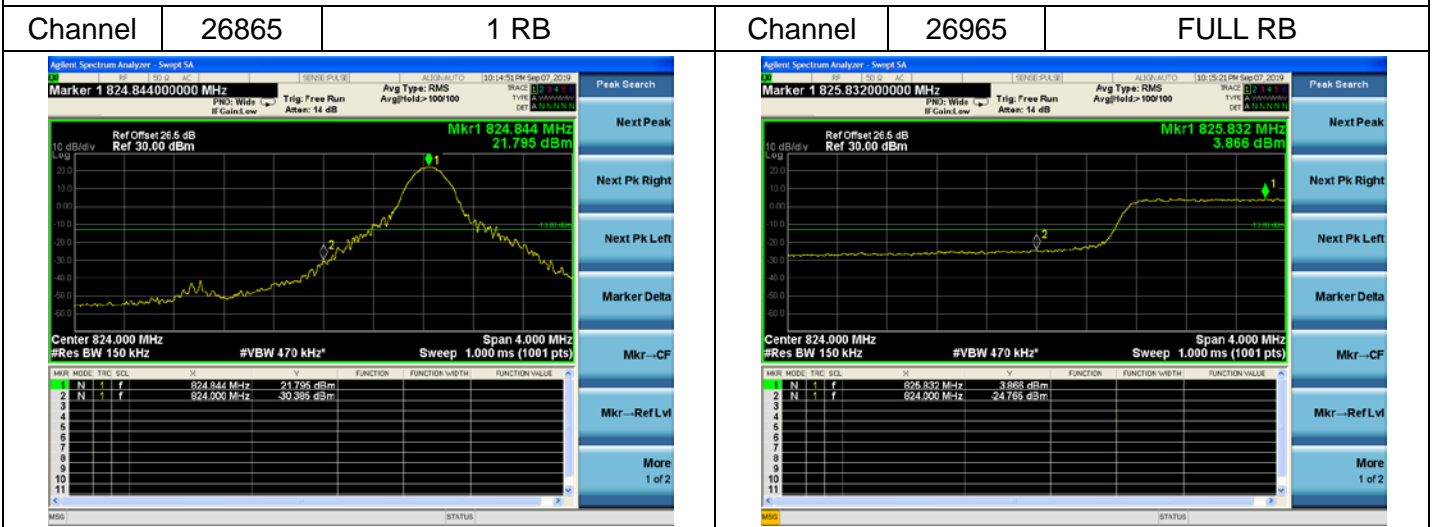
Channel Bandwidth: 10MHz



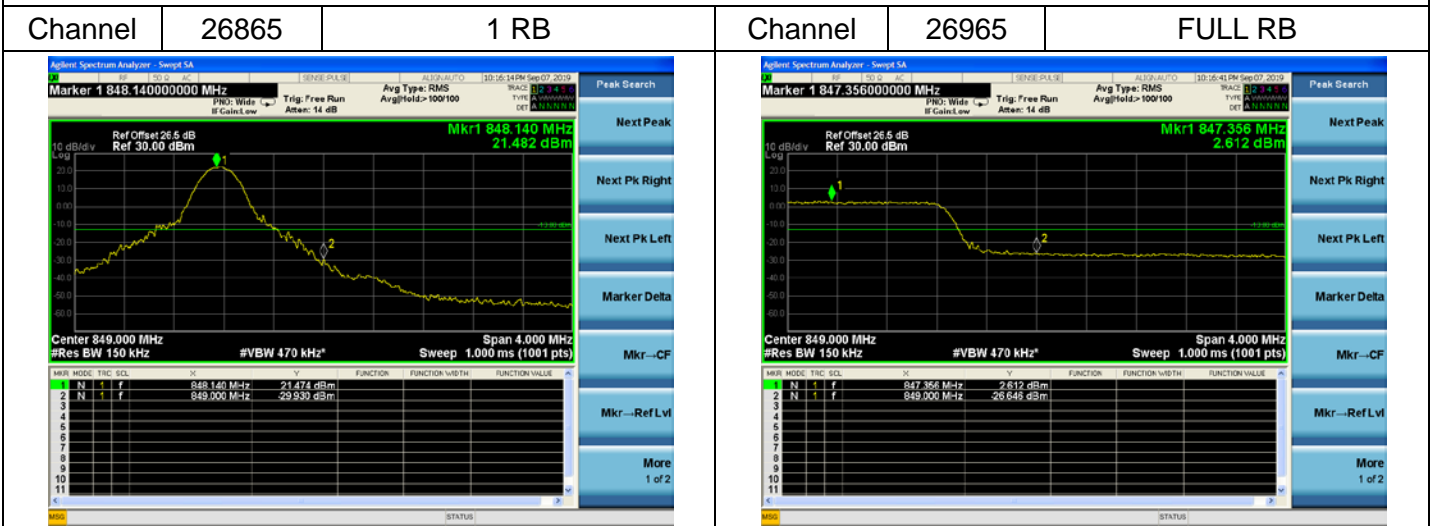


LTE Band 26

Channel Bandwidth: 15MHz



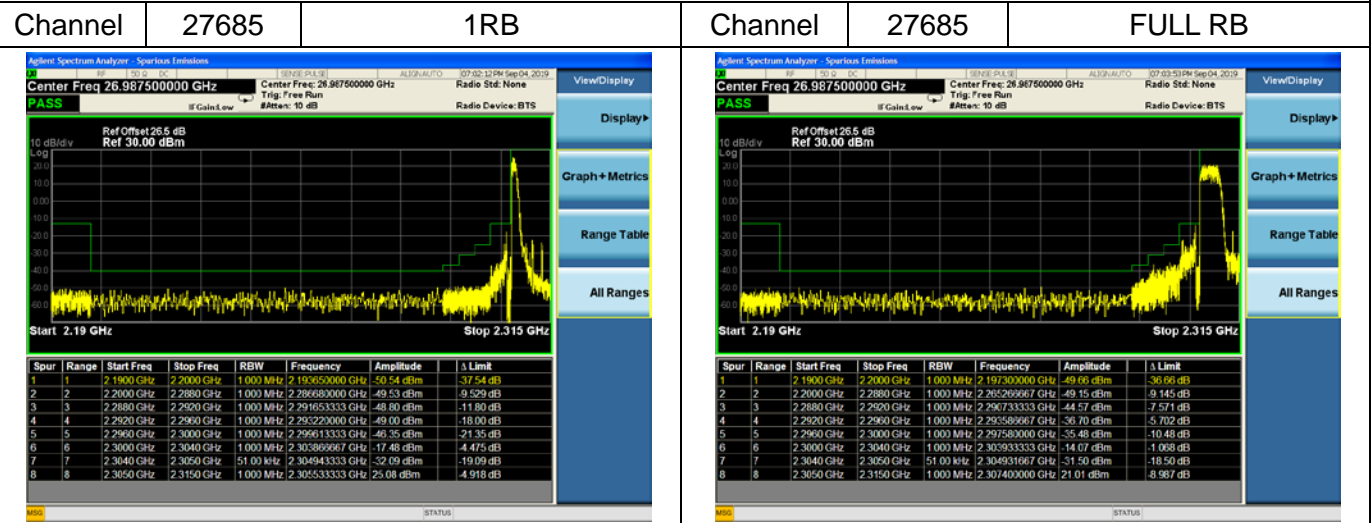
Channel Bandwidth: 15MHz



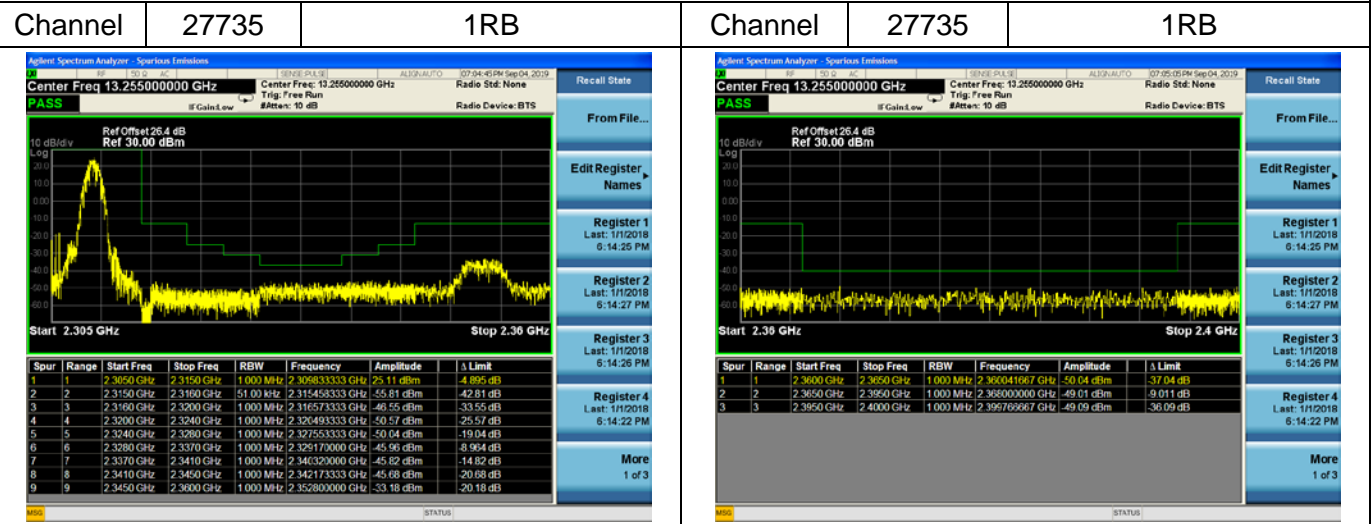


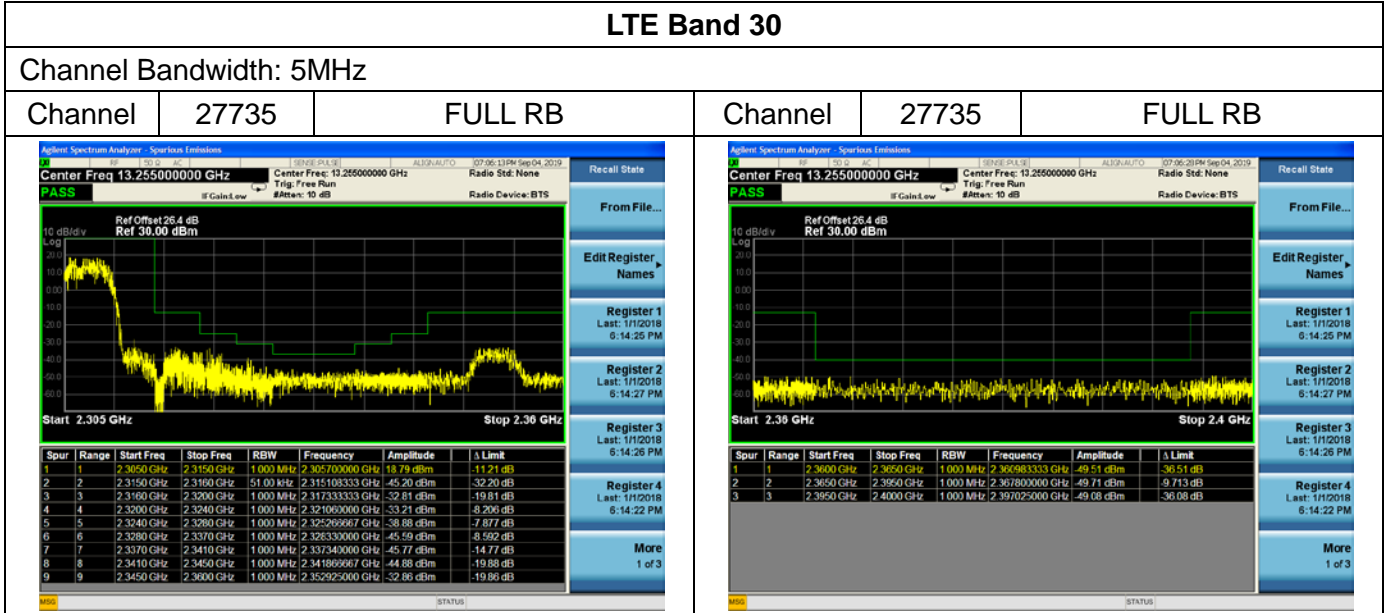
LTE Band 30

Channel Bandwidth: 5MHz



Channel Bandwidth: 5MHz







LTE Band 30

Channel Bandwidth: 10MHz

| Channel | 27710 | 1RB | Channel | 27710 | FULL RB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2.1900 GHz</td><td>2.2000 GHz</td><td>1.000 MHz</td><td>2.194400000 GHz</td><td>-49.91 dBm</td><td>-36.91 dB</td></tr> <tr><td>2</td><td>2</td><td>2.2000 GHz</td><td>2.2880 GHz</td><td>1.000 MHz</td><td>2.284189667 GHz</td><td>-49.89 dBm</td><td>-9.886 dB</td></tr> <tr><td>3</td><td>3</td><td>2.2880 GHz</td><td>2.2920 GHz</td><td>1.000 MHz</td><td>2.291683000 GHz</td><td>-37.28 dBm</td><td>-0.279 dB</td></tr> <tr><td>4</td><td>4</td><td>2.2920 GHz</td><td>2.2960 GHz</td><td>1.000 MHz</td><td>2.295709667 GHz</td><td>-48.65 dBm</td><td>-17.65 dB</td></tr> <tr><td>5</td><td>5</td><td>2.2960 GHz</td><td>2.3000 GHz</td><td>1.000 MHz</td><td>2.298513333 GHz</td><td>-28.19 dBm</td><td>-3.192 dB</td></tr> <tr><td>6</td><td>6</td><td>2.3000 GHz</td><td>2.3040 GHz</td><td>1.000 MHz</td><td>2.303889667 GHz</td><td>-14.12 dBm</td><td>-1.117 dB</td></tr> <tr><td>7</td><td>7</td><td>2.3040 GHz</td><td>2.3050 GHz</td><td>110.0 kHz</td><td>2.304989667 GHz</td><td>-27.85 dBm</td><td>-14.85 dB</td></tr> <tr><td>8</td><td>8</td><td>2.3050 GHz</td><td>2.3150 GHz</td><td>1.000 MHz</td><td>2.305633333 GHz</td><td>25.37 dBm</td><td>-4.625 dB</td></tr> </tbody> </table> | | | Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | 1 | 1 | 2.1900 GHz | 2.2000 GHz | 1.000 MHz | 2.194400000 GHz | -49.91 dBm | -36.91 dB | 2 | 2 | 2.2000 GHz | 2.2880 GHz | 1.000 MHz | 2.284189667 GHz | -49.89 dBm | -9.886 dB | 3 | 3 | 2.2880 GHz | 2.2920 GHz | 1.000 MHz | 2.291683000 GHz | -37.28 dBm | -0.279 dB | 4 | 4 | 2.2920 GHz | 2.2960 GHz | 1.000 MHz | 2.295709667 GHz | -48.65 dBm | -17.65 dB | 5 | 5 | 2.2960 GHz | 2.3000 GHz | 1.000 MHz | 2.298513333 GHz | -28.19 dBm | -3.192 dB | 6 | 6 | 2.3000 GHz | 2.3040 GHz | 1.000 MHz | 2.303889667 GHz | -14.12 dBm | -1.117 dB | 7 | 7 | 2.3040 GHz | 2.3050 GHz | 110.0 kHz | 2.304989667 GHz | -27.85 dBm | -14.85 dB | 8 | 8 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305633333 GHz | 25.37 dBm | -4.625 dB | <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2.1900 GHz</td><td>2.2000 GHz</td><td>1.000 MHz</td><td>2.199019667 GHz</td><td>-49.47 dBm</td><td>-36.47 dB</td></tr> <tr><td>2</td><td>2</td><td>2.2000 GHz</td><td>2.2880 GHz</td><td>1.000 MHz</td><td>2.278763000 GHz</td><td>-49.14 dBm</td><td>-9.142 dB</td></tr> <tr><td>3</td><td>3</td><td>2.2880 GHz</td><td>2.2920 GHz</td><td>1.000 MHz</td><td>2.290489667 GHz</td><td>-43.42 dBm</td><td>-6.422 dB</td></tr> <tr><td>4</td><td>4</td><td>2.2920 GHz</td><td>2.2960 GHz</td><td>1.000 MHz</td><td>2.294240000 GHz</td><td>-36.63 dBm</td><td>-5.627 dB</td></tr> <tr><td>5</td><td>5</td><td>2.2960 GHz</td><td>2.3000 GHz</td><td>1.000 MHz</td><td>2.295513333 GHz</td><td>-35.50 dBm</td><td>-18.50 dB</td></tr> <tr><td>6</td><td>6</td><td>2.3000 GHz</td><td>2.3040 GHz</td><td>1.000 MHz</td><td>2.301489667 GHz</td><td>-13.74 dBm</td><td>-0.741 dB</td></tr> <tr><td>7</td><td>7</td><td>2.3040 GHz</td><td>2.3050 GHz</td><td>110.0 kHz</td><td>2.304941667 GHz</td><td>-24.31 dBm</td><td>-11.31 dB</td></tr> <tr><td>8</td><td>8</td><td>2.3050 GHz</td><td>2.3150 GHz</td><td>1.000 MHz</td><td>2.305250000 GHz</td><td>21.43 dBm</td><td>-8.565 dB</td></tr> </tbody> </table> | | | Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | 1 | 1 | 2.1900 GHz | 2.2000 GHz | 1.000 MHz | 2.199019667 GHz | -49.47 dBm | -36.47 dB | 2 | 2 | 2.2000 GHz | 2.2880 GHz | 1.000 MHz | 2.278763000 GHz | -49.14 dBm | -9.142 dB | 3 | 3 | 2.2880 GHz | 2.2920 GHz | 1.000 MHz | 2.290489667 GHz | -43.42 dBm | -6.422 dB | 4 | 4 | 2.2920 GHz | 2.2960 GHz | 1.000 MHz | 2.294240000 GHz | -36.63 dBm | -5.627 dB | 5 | 5 | 2.2960 GHz | 2.3000 GHz | 1.000 MHz | 2.295513333 GHz | -35.50 dBm | -18.50 dB | 6 | 6 | 2.3000 GHz | 2.3040 GHz | 1.000 MHz | 2.301489667 GHz | -13.74 dBm | -0.741 dB | 7 | 7 | 2.3040 GHz | 2.3050 GHz | 110.0 kHz | 2.304941667 GHz | -24.31 dBm | -11.31 dB | 8 | 8 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305250000 GHz | 21.43 dBm | -8.565 dB |
| Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2.1900 GHz | 2.2000 GHz | 1.000 MHz | 2.194400000 GHz | -49.91 dBm | -36.91 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2.2000 GHz | 2.2880 GHz | 1.000 MHz | 2.284189667 GHz | -49.89 dBm | -9.886 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 2.2880 GHz | 2.2920 GHz | 1.000 MHz | 2.291683000 GHz | -37.28 dBm | -0.279 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4 | 2.2920 GHz | 2.2960 GHz | 1.000 MHz | 2.295709667 GHz | -48.65 dBm | -17.65 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | 2.2960 GHz | 2.3000 GHz | 1.000 MHz | 2.298513333 GHz | -28.19 dBm | -3.192 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | 2.3000 GHz | 2.3040 GHz | 1.000 MHz | 2.303889667 GHz | -14.12 dBm | -1.117 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 7 | 2.3040 GHz | 2.3050 GHz | 110.0 kHz | 2.304989667 GHz | -27.85 dBm | -14.85 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 8 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305633333 GHz | 25.37 dBm | -4.625 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2.1900 GHz | 2.2000 GHz | 1.000 MHz | 2.199019667 GHz | -49.47 dBm | -36.47 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2.2000 GHz | 2.2880 GHz | 1.000 MHz | 2.278763000 GHz | -49.14 dBm | -9.142 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 2.2880 GHz | 2.2920 GHz | 1.000 MHz | 2.290489667 GHz | -43.42 dBm | -6.422 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4 | 2.2920 GHz | 2.2960 GHz | 1.000 MHz | 2.294240000 GHz | -36.63 dBm | -5.627 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | 2.2960 GHz | 2.3000 GHz | 1.000 MHz | 2.295513333 GHz | -35.50 dBm | -18.50 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | 2.3000 GHz | 2.3040 GHz | 1.000 MHz | 2.301489667 GHz | -13.74 dBm | -0.741 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 7 | 2.3040 GHz | 2.3050 GHz | 110.0 kHz | 2.304941667 GHz | -24.31 dBm | -11.31 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 8 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305250000 GHz | 21.43 dBm | -8.565 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

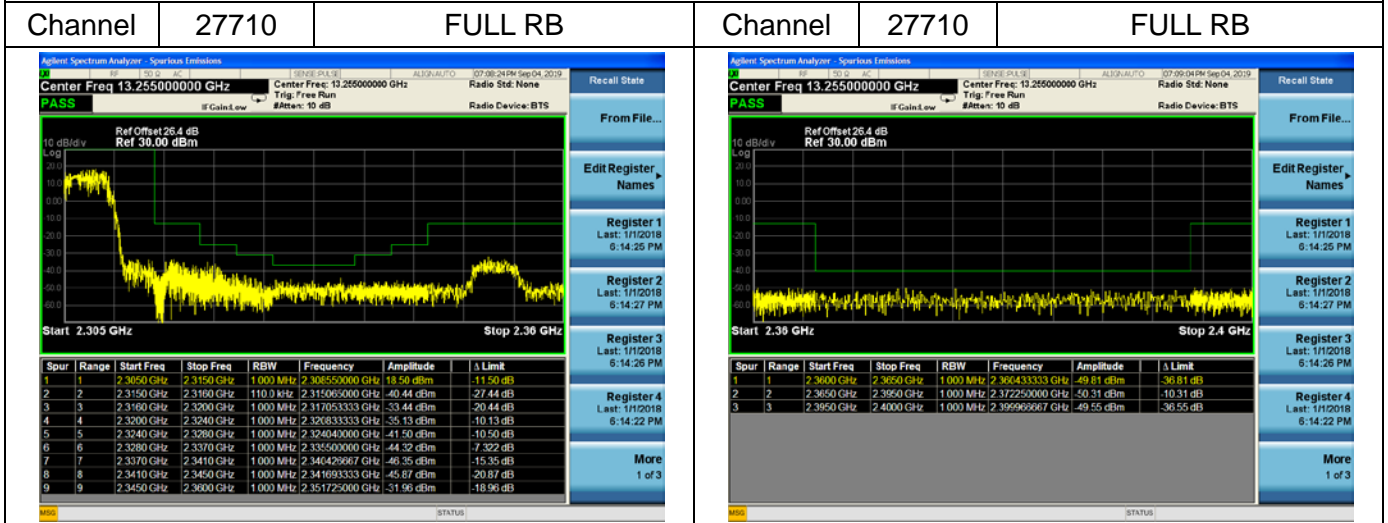
Channel Bandwidth: 10MHz

| Channel | 27710 | 1RB | Channel | 27710 | 1RB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2.3050 GHz</td><td>2.3150 GHz</td><td>1.000 MHz</td><td>2.305599667 GHz</td><td>25.39 dBm</td><td>-4.618 dB</td></tr> <tr><td>2</td><td>2</td><td>2.3150 GHz</td><td>2.3180 GHz</td><td>110.0 kHz</td><td>2.315400000 GHz</td><td>-53.52 dBm</td><td>-40.52 dB</td></tr> <tr><td>3</td><td>3</td><td>2.3180 GHz</td><td>2.3200 GHz</td><td>1.000 MHz</td><td>2.316720000 GHz</td><td>-48.94 dBm</td><td>-33.94 dB</td></tr> <tr><td>4</td><td>4</td><td>2.3200 GHz</td><td>2.3240 GHz</td><td>1.000 MHz</td><td>2.321349667 GHz</td><td>-46.60 dBm</td><td>-21.60 dB</td></tr> <tr><td>5</td><td>5</td><td>2.3240 GHz</td><td>2.3280 GHz</td><td>1.000 MHz</td><td>2.327633333 GHz</td><td>-44.59 dBm</td><td>-13.59 dB</td></tr> <tr><td>6</td><td>6</td><td>2.3280 GHz</td><td>2.3370 GHz</td><td>1.000 MHz</td><td>2.336415000 GHz</td><td>-45.74 dBm</td><td>-8.737 dB</td></tr> <tr><td>7</td><td>7</td><td>2.3370 GHz</td><td>2.3410 GHz</td><td>1.000 MHz</td><td>2.340300000 GHz</td><td>-46.59 dBm</td><td>-15.59 dB</td></tr> <tr><td>8</td><td>8</td><td>2.3410 GHz</td><td>2.3450 GHz</td><td>1.000 MHz</td><td>2.341729667 GHz</td><td>-45.50 dBm</td><td>-20.50 dB</td></tr> <tr><td>9</td><td>9</td><td>2.3450 GHz</td><td>2.3600 GHz</td><td>1.000 MHz</td><td>2.355550000 GHz</td><td>-31.48 dBm</td><td>-18.48 dB</td></tr> </tbody> </table> | | | Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | 1 | 1 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305599667 GHz | 25.39 dBm | -4.618 dB | 2 | 2 | 2.3150 GHz | 2.3180 GHz | 110.0 kHz | 2.315400000 GHz | -53.52 dBm | -40.52 dB | 3 | 3 | 2.3180 GHz | 2.3200 GHz | 1.000 MHz | 2.316720000 GHz | -48.94 dBm | -33.94 dB | 4 | 4 | 2.3200 GHz | 2.3240 GHz | 1.000 MHz | 2.321349667 GHz | -46.60 dBm | -21.60 dB | 5 | 5 | 2.3240 GHz | 2.3280 GHz | 1.000 MHz | 2.327633333 GHz | -44.59 dBm | -13.59 dB | 6 | 6 | 2.3280 GHz | 2.3370 GHz | 1.000 MHz | 2.336415000 GHz | -45.74 dBm | -8.737 dB | 7 | 7 | 2.3370 GHz | 2.3410 GHz | 1.000 MHz | 2.340300000 GHz | -46.59 dBm | -15.59 dB | 8 | 8 | 2.3410 GHz | 2.3450 GHz | 1.000 MHz | 2.341729667 GHz | -45.50 dBm | -20.50 dB | 9 | 9 | 2.3450 GHz | 2.3600 GHz | 1.000 MHz | 2.355550000 GHz | -31.48 dBm | -18.48 dB | <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>2.3650 GHz</td><td>2.3650 GHz</td><td>1.000 MHz</td><td>2.365200000 GHz</td><td>-49.69 dBm</td><td>-36.69 dB</td></tr> <tr><td>2</td><td>2</td><td>2.3650 GHz</td><td>2.3650 GHz</td><td>1.000 MHz</td><td>2.372650000 GHz</td><td>-47.49 dBm</td><td>-7.589 dB</td></tr> <tr><td>3</td><td>3</td><td>2.3650 GHz</td><td>2.4000 GHz</td><td>1.000 MHz</td><td>2.396900000 GHz</td><td>-48.56 dBm</td><td>-35.96 dB</td></tr> </tbody> </table> | | | Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | 1 | 1 | 2.3650 GHz | 2.3650 GHz | 1.000 MHz | 2.365200000 GHz | -49.69 dBm | -36.69 dB | 2 | 2 | 2.3650 GHz | 2.3650 GHz | 1.000 MHz | 2.372650000 GHz | -47.49 dBm | -7.589 dB | 3 | 3 | 2.3650 GHz | 2.4000 GHz | 1.000 MHz | 2.396900000 GHz | -48.56 dBm | -35.96 dB |
| Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2.3050 GHz | 2.3150 GHz | 1.000 MHz | 2.305599667 GHz | 25.39 dBm | -4.618 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2.3150 GHz | 2.3180 GHz | 110.0 kHz | 2.315400000 GHz | -53.52 dBm | -40.52 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 2.3180 GHz | 2.3200 GHz | 1.000 MHz | 2.316720000 GHz | -48.94 dBm | -33.94 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4 | 2.3200 GHz | 2.3240 GHz | 1.000 MHz | 2.321349667 GHz | -46.60 dBm | -21.60 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | 2.3240 GHz | 2.3280 GHz | 1.000 MHz | 2.327633333 GHz | -44.59 dBm | -13.59 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | 2.3280 GHz | 2.3370 GHz | 1.000 MHz | 2.336415000 GHz | -45.74 dBm | -8.737 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 7 | 2.3370 GHz | 2.3410 GHz | 1.000 MHz | 2.340300000 GHz | -46.59 dBm | -15.59 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 8 | 2.3410 GHz | 2.3450 GHz | 1.000 MHz | 2.341729667 GHz | -45.50 dBm | -20.50 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 9 | 2.3450 GHz | 2.3600 GHz | 1.000 MHz | 2.355550000 GHz | -31.48 dBm | -18.48 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2.3650 GHz | 2.3650 GHz | 1.000 MHz | 2.365200000 GHz | -49.69 dBm | -36.69 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2.3650 GHz | 2.3650 GHz | 1.000 MHz | 2.372650000 GHz | -47.49 dBm | -7.589 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 2.3650 GHz | 2.4000 GHz | 1.000 MHz | 2.396900000 GHz | -48.56 dBm | -35.96 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



LTE Band 30

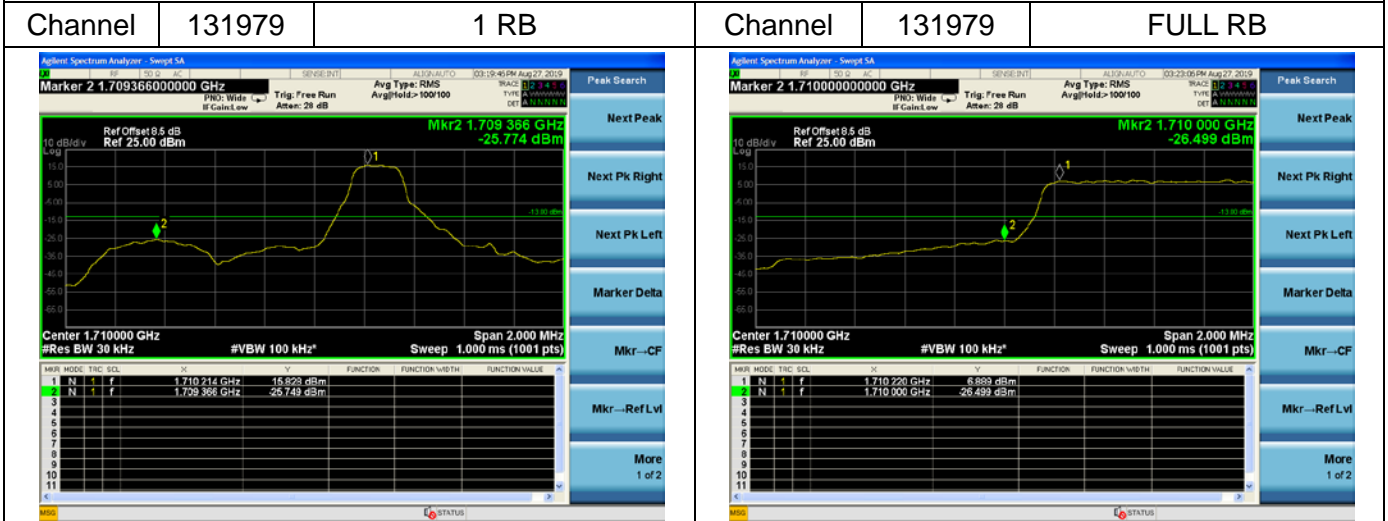
Channel Bandwidth: 10MHz



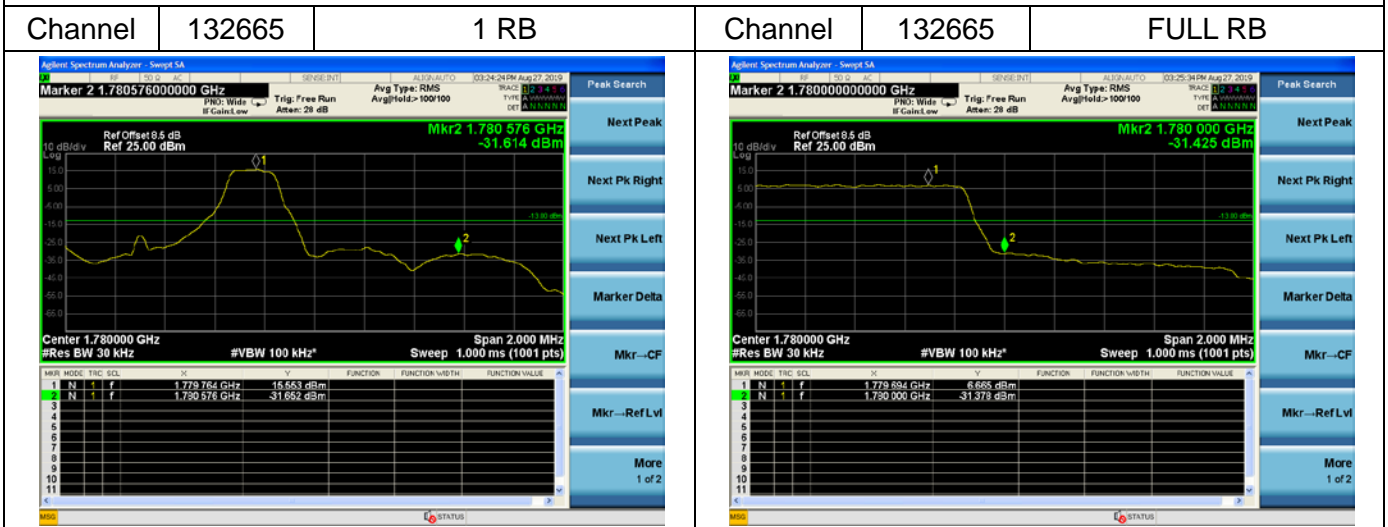


LTE Band 66

Channel Bandwidth: 1.4MHz



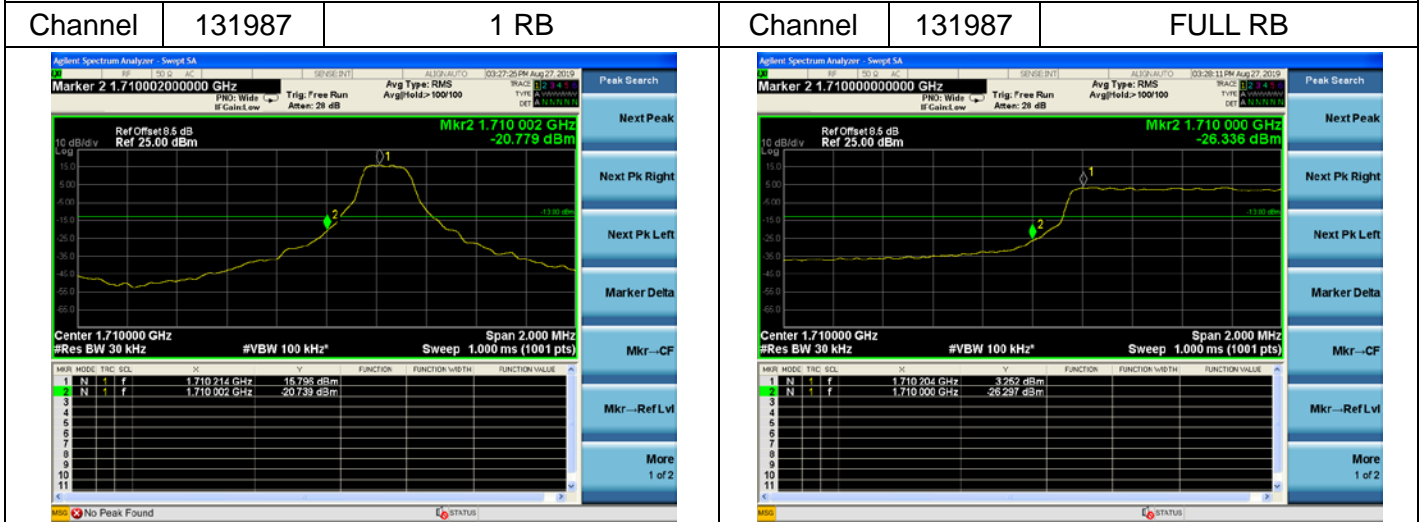
Channel Bandwidth: 1.4MHz



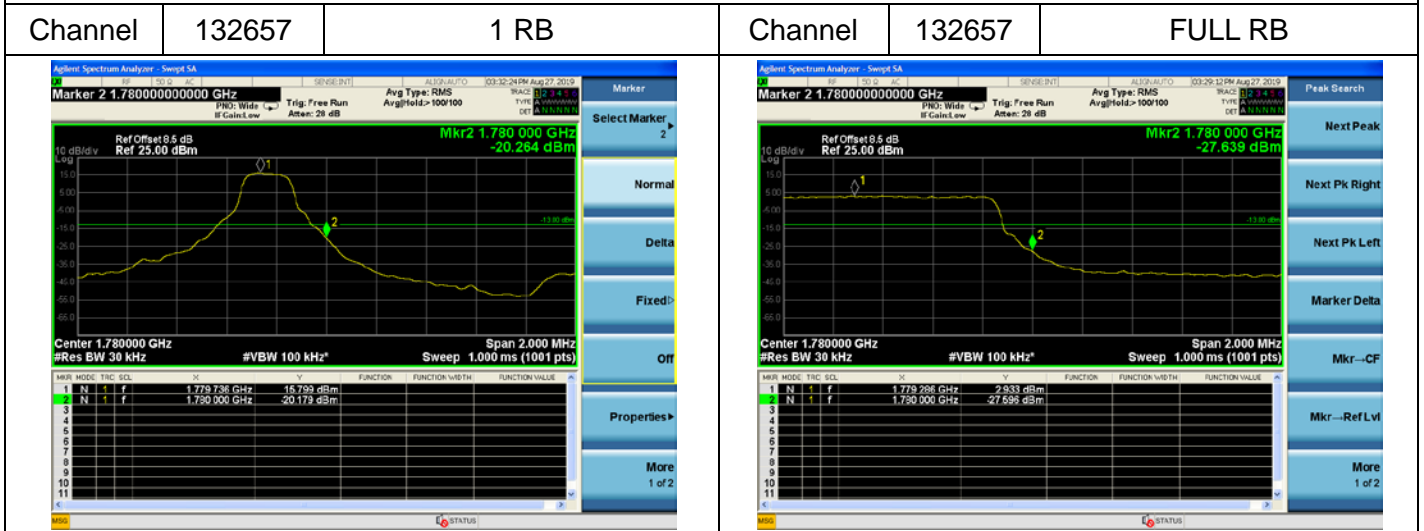


LTE Band 66

Channel Bandwidth: 3MHz



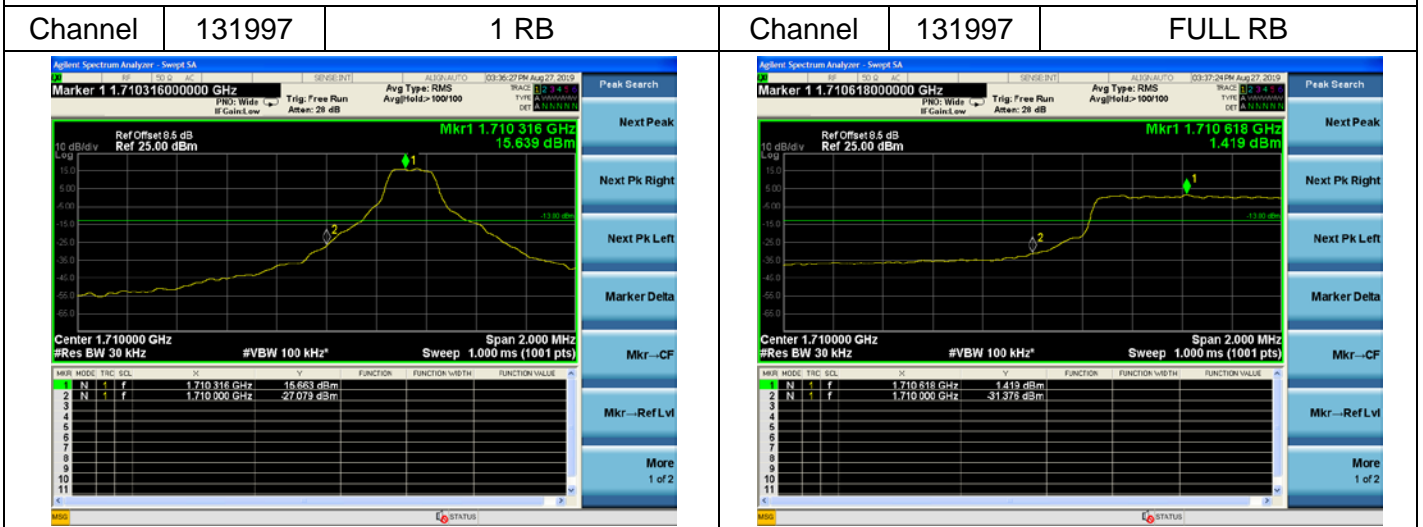
Channel Bandwidth: 3MHz



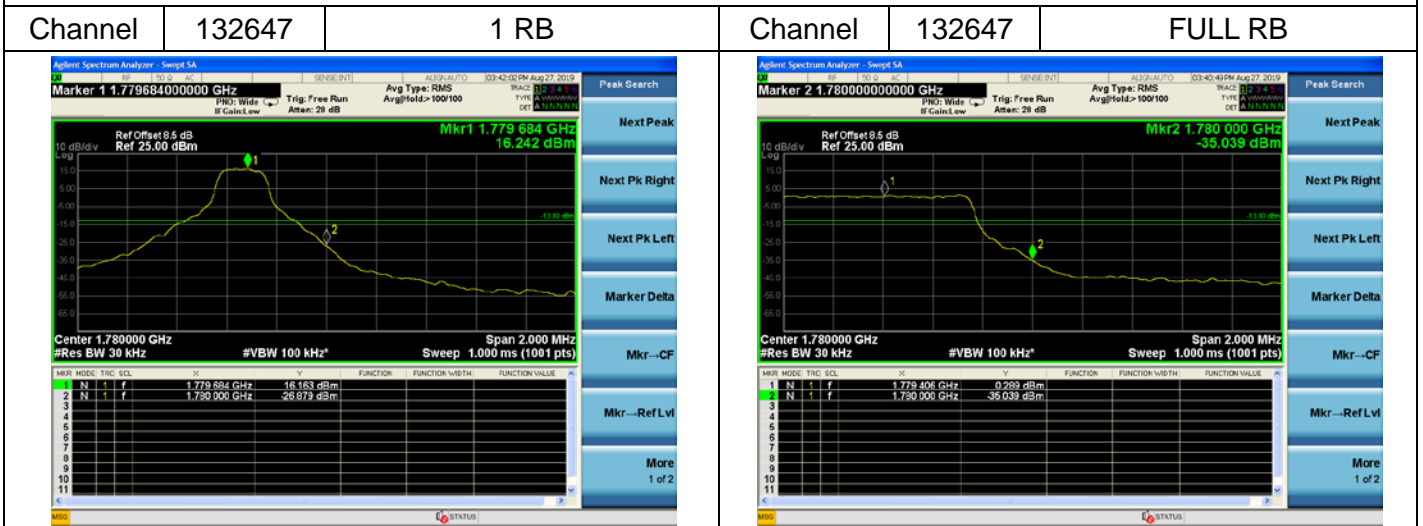


LTE Band 66

Channel Bandwidth: 5MHz



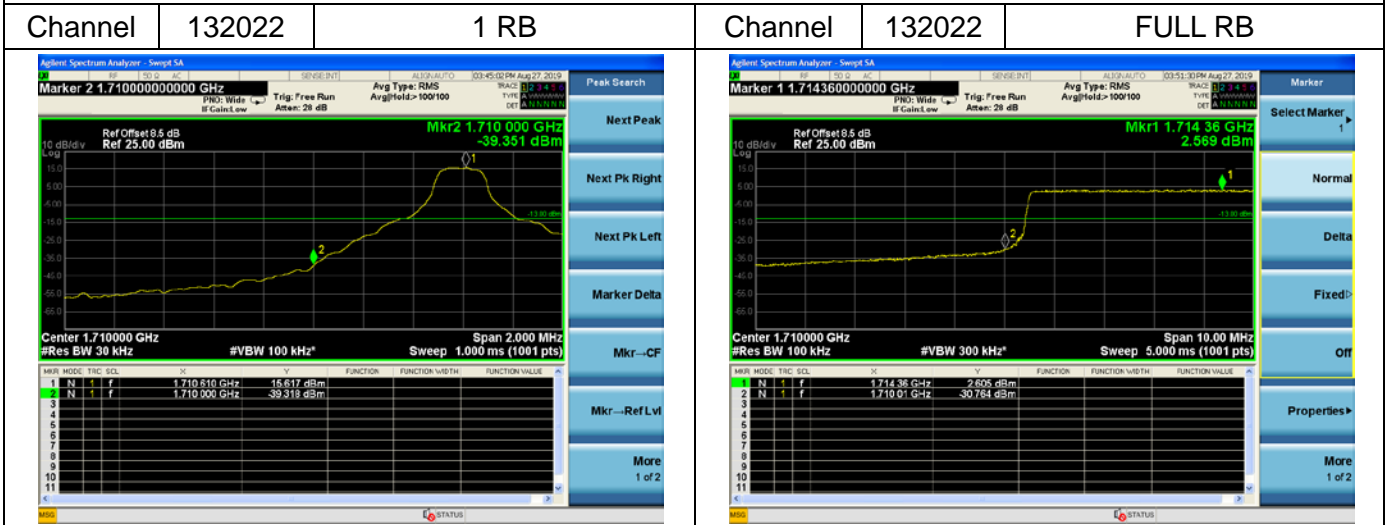
Channel Bandwidth: 5MHz



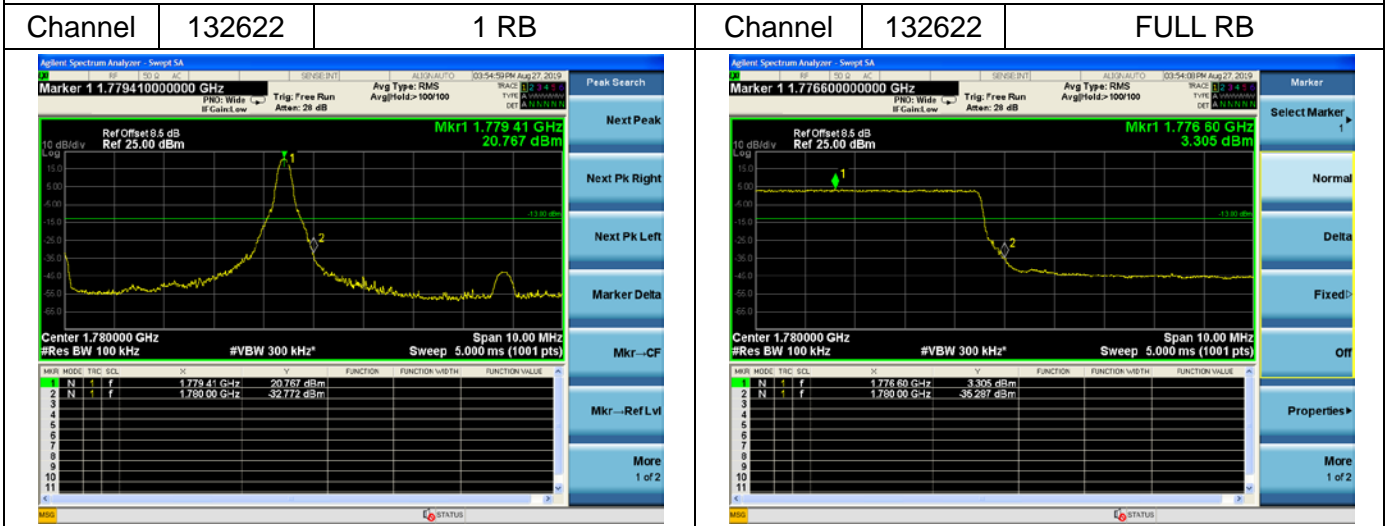


LTE Band 66

Channel Bandwidth: 10MHz



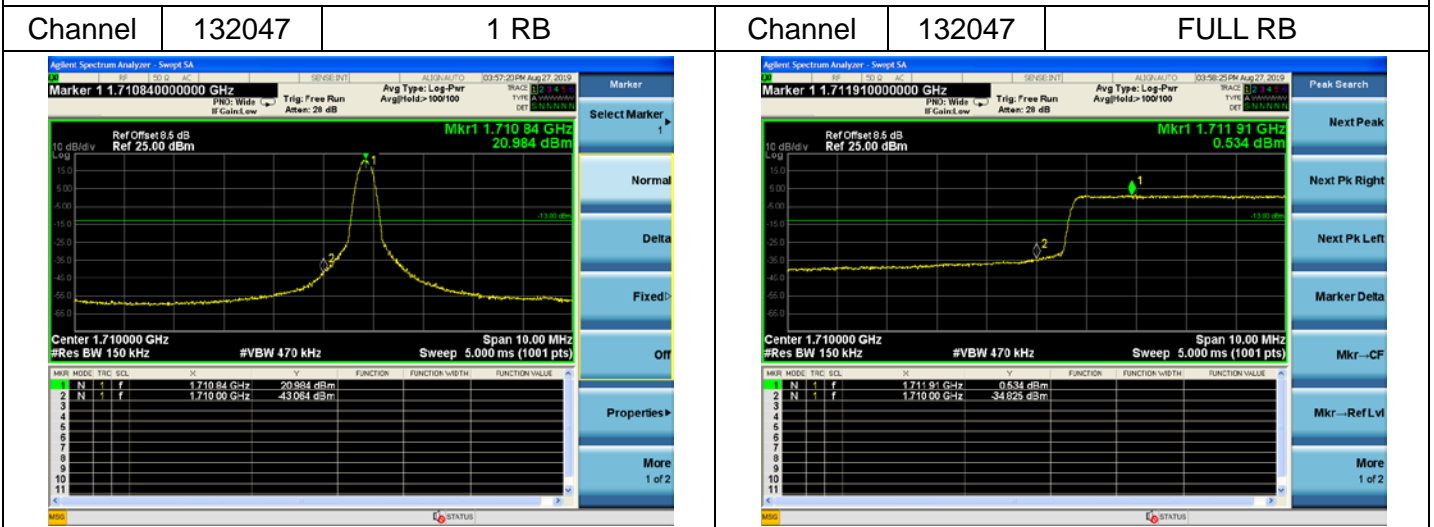
Channel Bandwidth: 10MHz



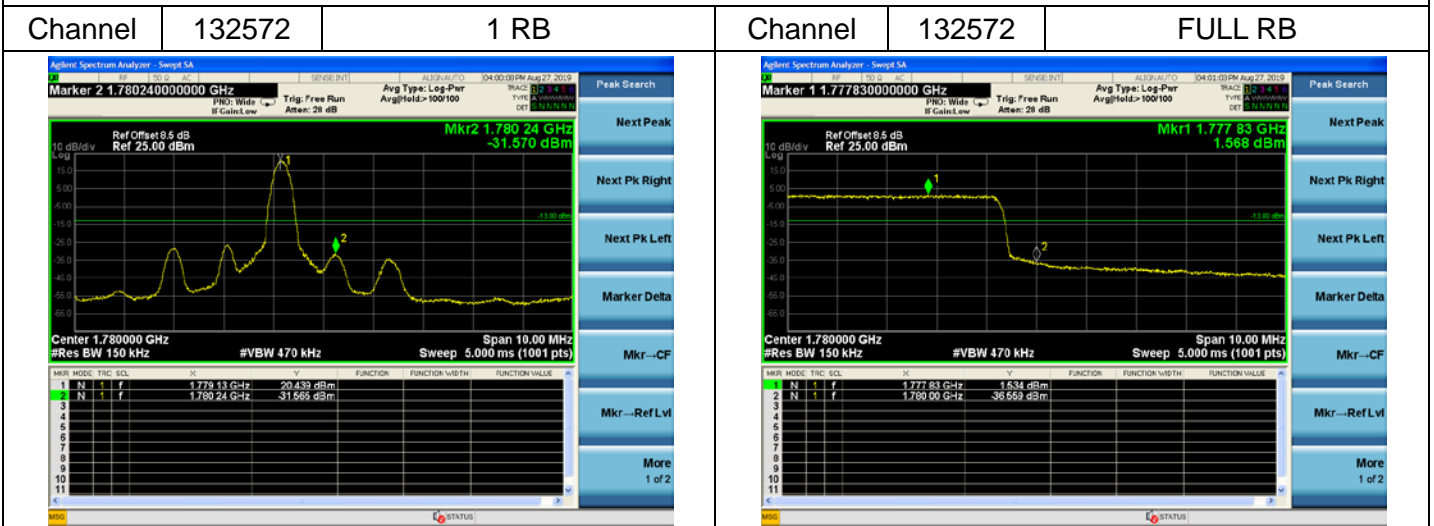


LTE Band 66

Channel Bandwidth: 15MHz



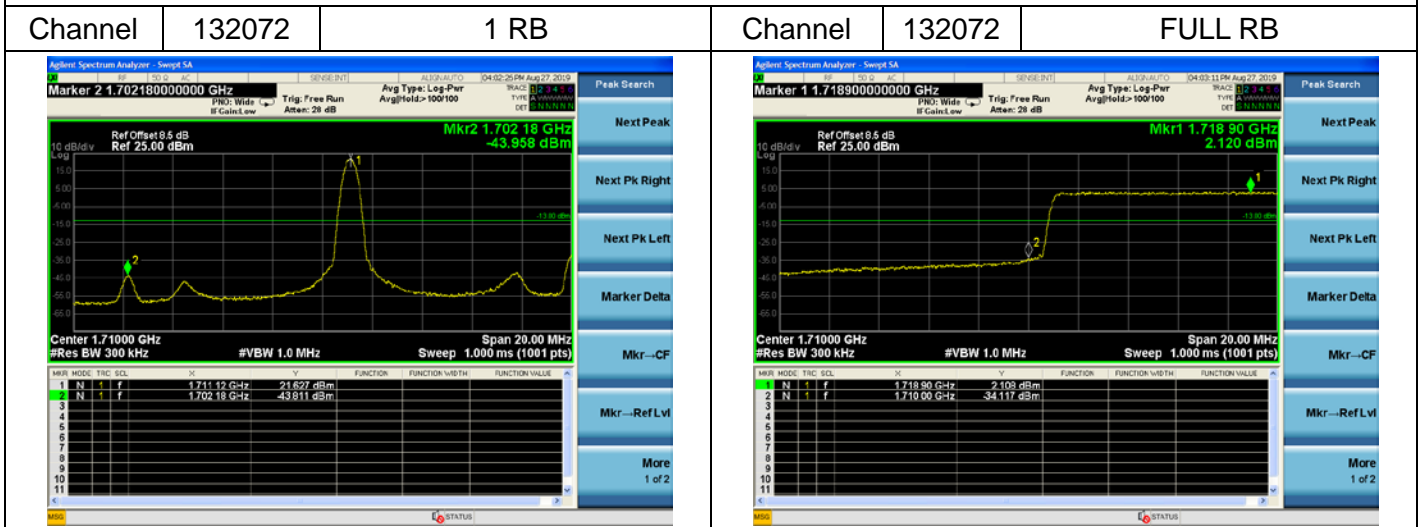
Channel Bandwidth: 15MHz



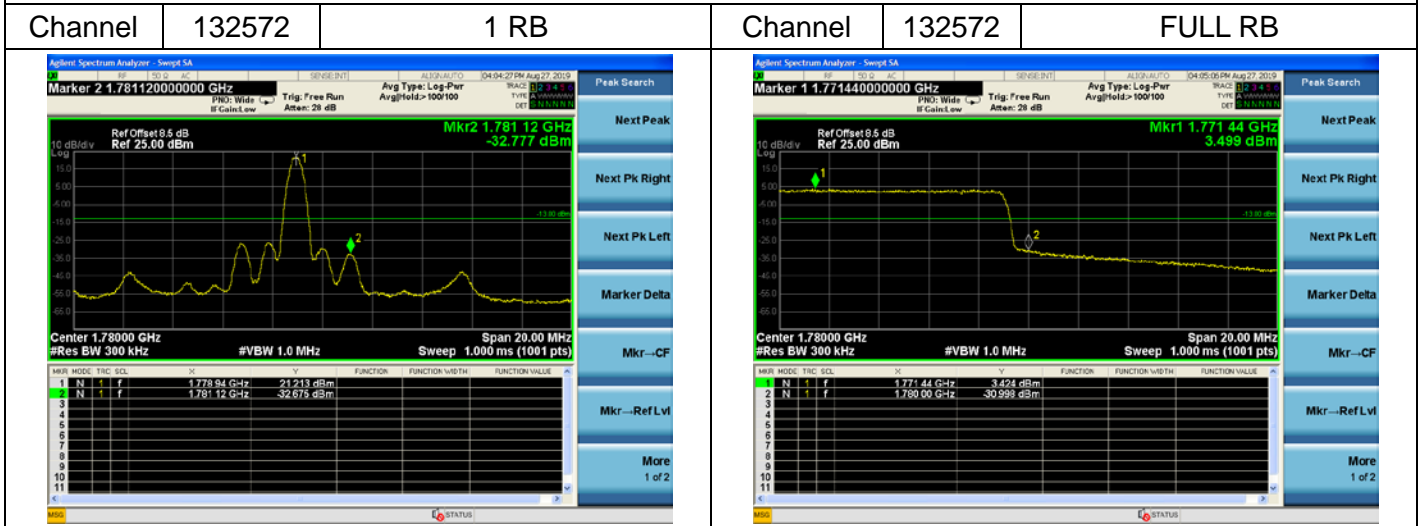


LTE Band 66

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz



2.7. Radiated Spurious Emissions

2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm.

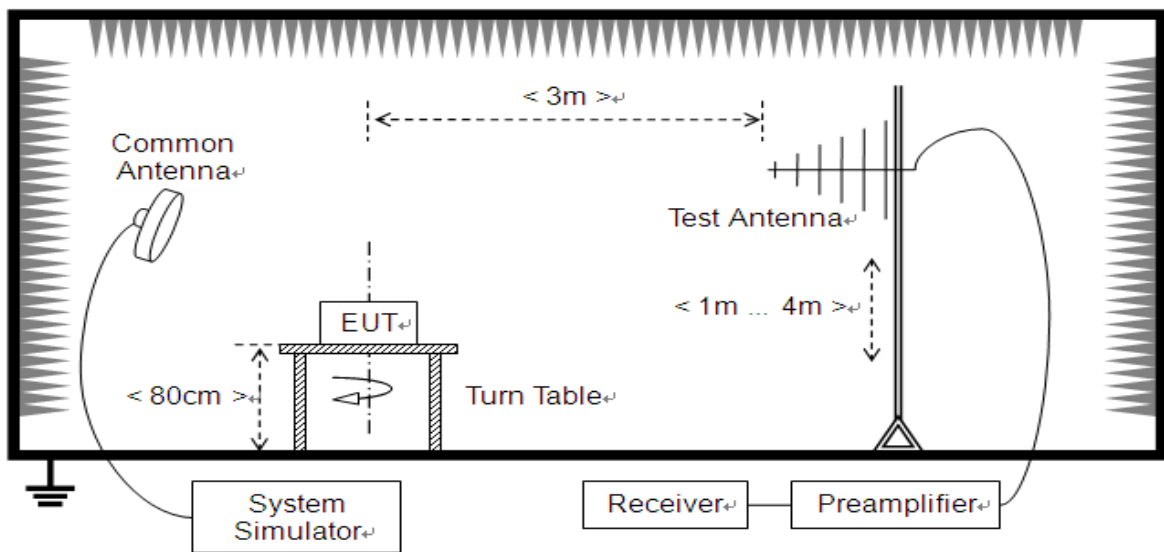
Additional requirement for LTE Band 7 / 38 / 41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

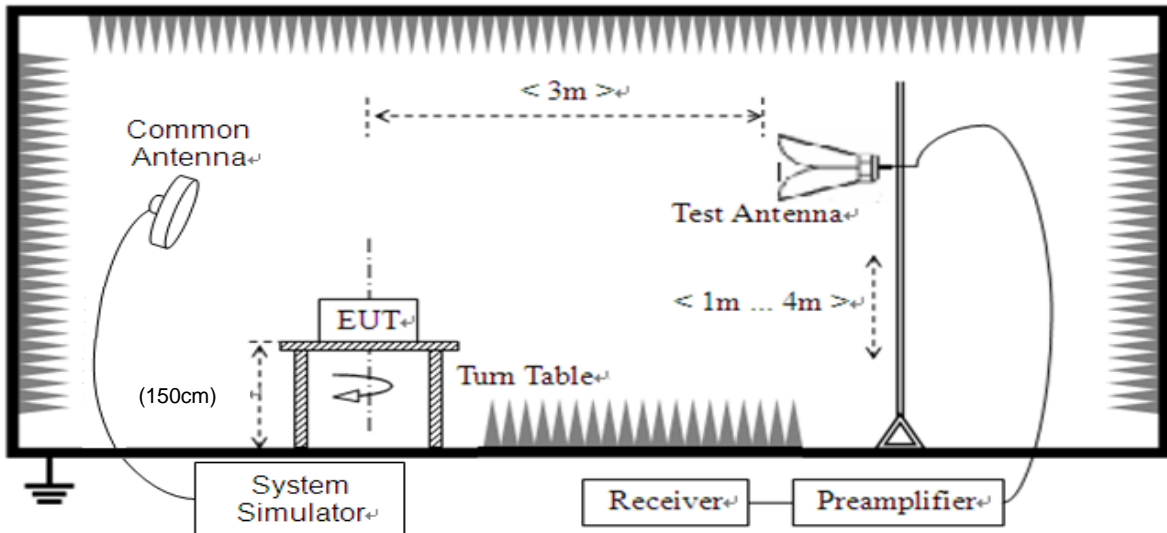
Additional requirement for LTE Band 30 / 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

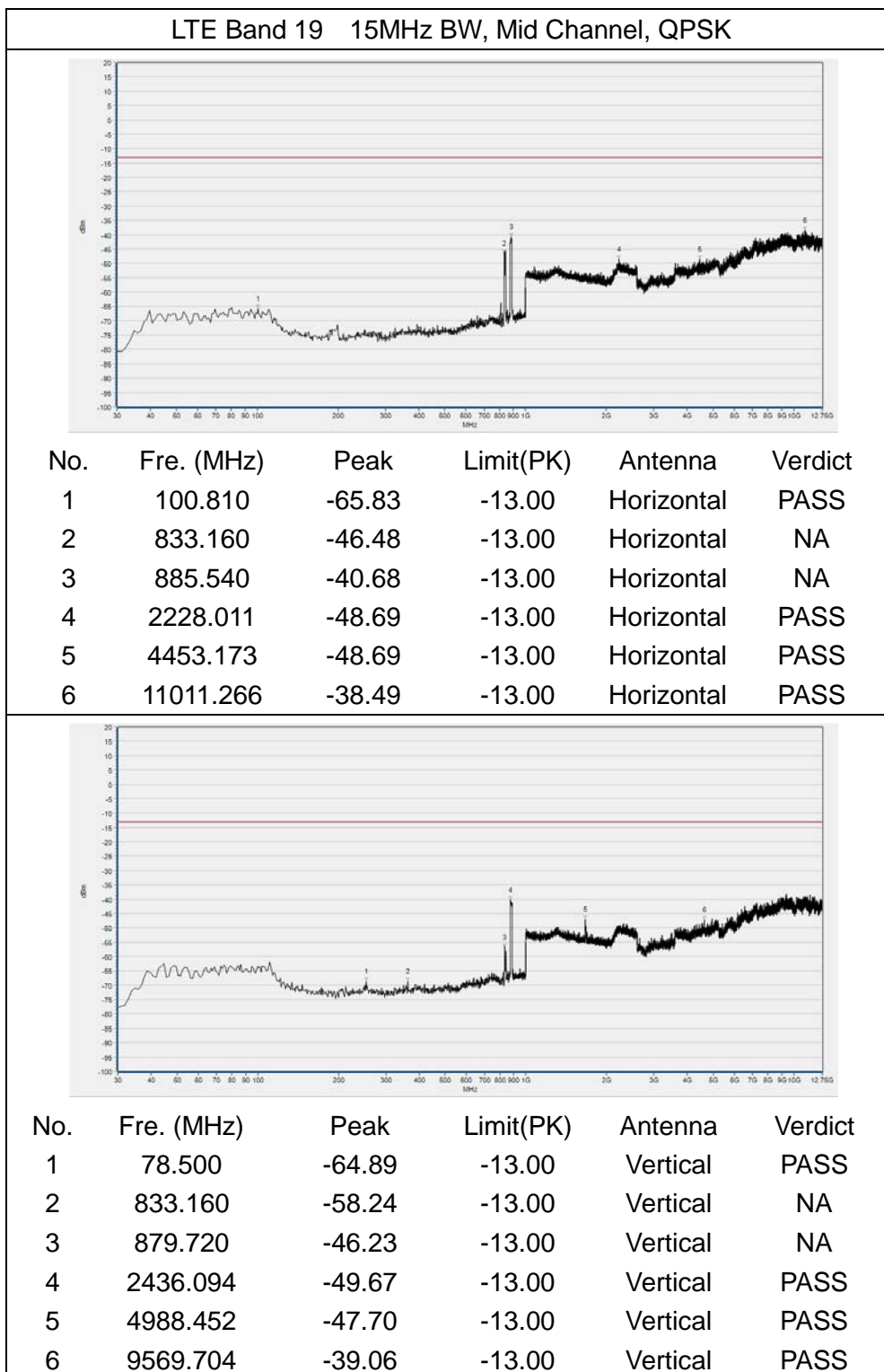
During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

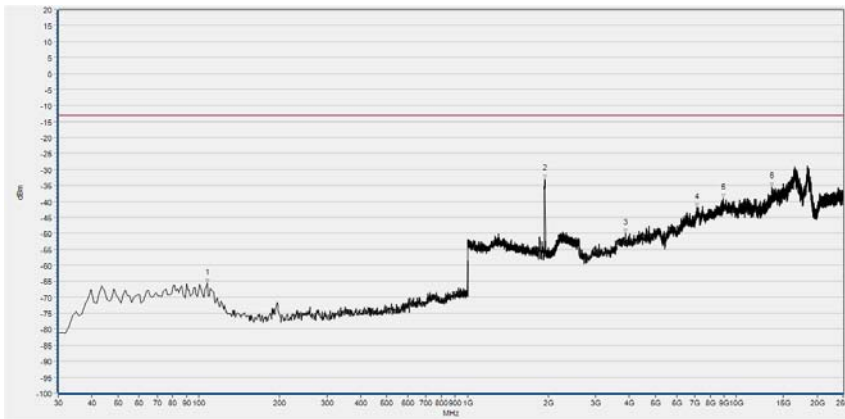
Top Antenna:



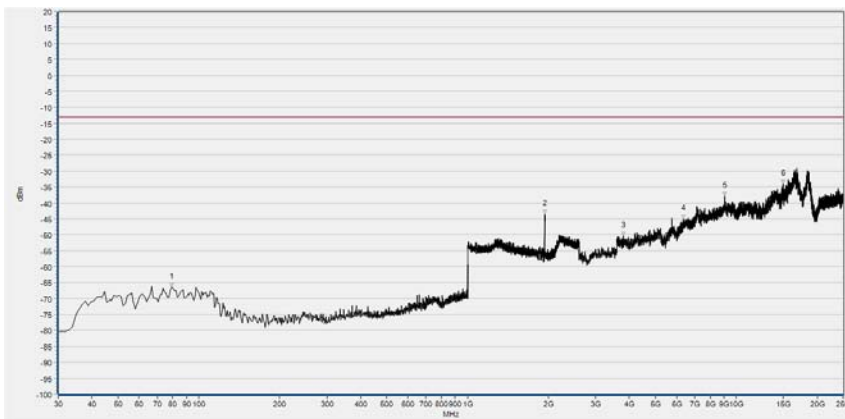


REPORT No.: SZ19070119W09

LTE Band 25 20MHz BW, Low Channel, QPSK

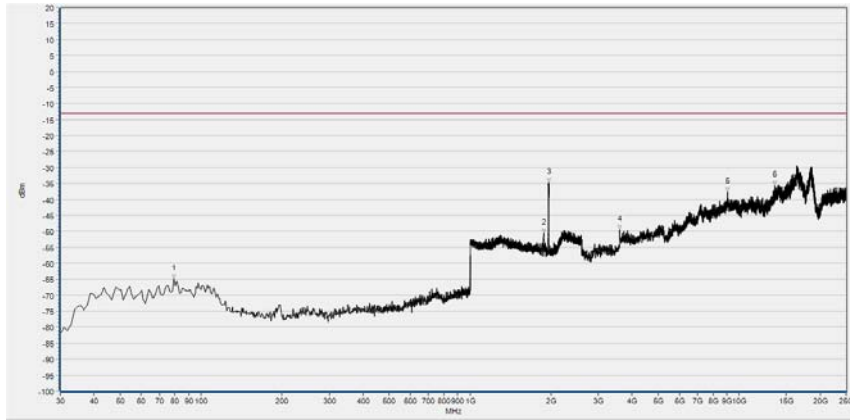


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 107.600 | -65.69 | -13.00 | Horizontal | PASS |
| 2 | 1945.018 | -32.93 | -13.00 | Horizontal | NA |
| 3 | 3883.142 | -49.95 | -13.00 | Horizontal | PASS |
| 4 | 7154.137 | -42.01 | -13.00 | Horizontal | PASS |
| 5 | 8966.830 | -38.99 | -13.00 | Horizontal | PASS |
| 6 | 13582.069 | -35.51 | -13.00 | Horizontal | PASS |

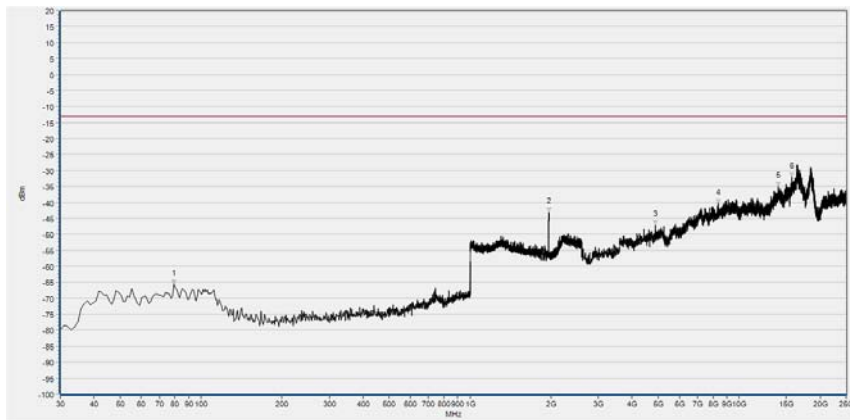


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 79.470 | -66.54 | -13.00 | Vertical | PASS |
| 2 | 1940.536 | -43.51 | -13.00 | Vertical | NA |
| 3 | 3797.600 | -50.35 | -13.00 | Vertical | PASS |
| 4 | 6363.884 | -44.98 | -13.00 | Vertical | PASS |
| 5 | 9040.153 | -37.94 | -13.00 | Vertical | PASS |
| 6 | 14946.681 | -34.19 | -13.00 | Vertical | PASS |

LTE Band 25 20MHz BW, Mid Channel, QPSK

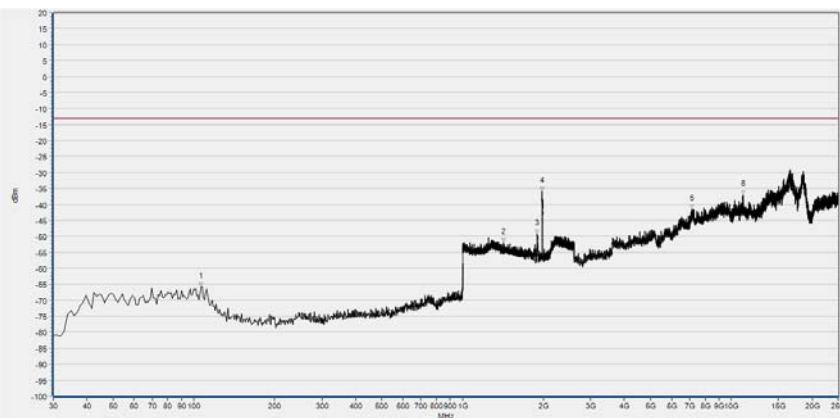


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 79.470 | -64.81 | -13.00 | Horizontal | PASS |
| 2 | 1877.151 | -50.64 | -13.00 | Horizontal | NA |
| 3 | 1962.945 | -34.66 | -13.00 | Horizontal | NA |
| 4 | 3602.073 | -49.39 | -13.00 | Horizontal | PASS |
| 5 | 9052.373 | -37.64 | -13.00 | Horizontal | PASS |
| 6 | 13573.923 | -35.63 | -13.00 | Horizontal | PASS |

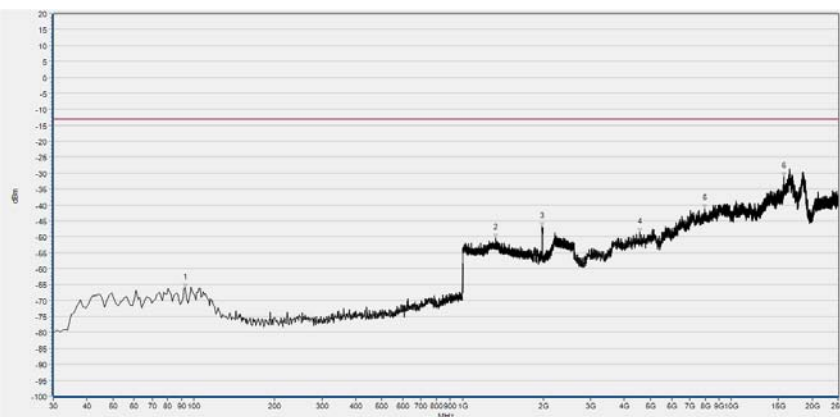


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 79.470 | -65.60 | -13.00 | Vertical | PASS |
| 2 | 1961.024 | -43.11 | -13.00 | Vertical | NA |
| 3 | 4885.215 | -47.14 | -13.00 | Vertical | PASS |
| 4 | 8355.810 | -40.23 | -13.00 | Vertical | PASS |
| 5 | 13981.269 | -35.00 | -13.00 | Vertical | PASS |
| 6 | 15667.685 | -32.05 | -13.00 | Vertical | PASS |

LTE Band 25 20MHz BW, High Channel, QPSK

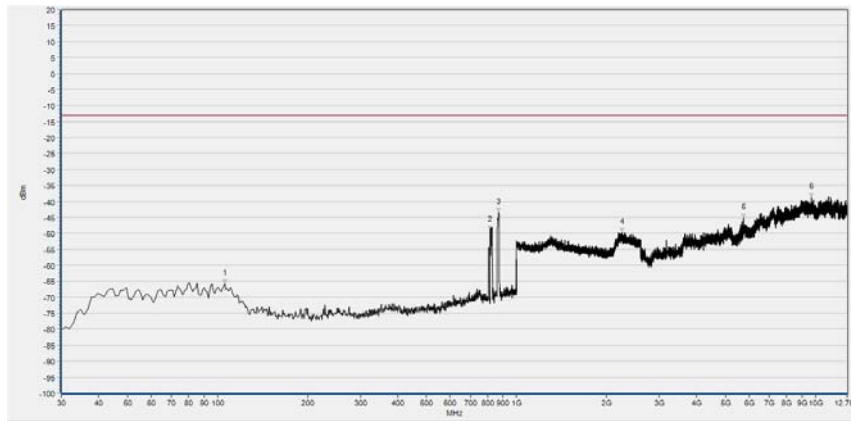


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 106.630 | -65.76 | -13.00 | Horizontal | PASS |
| 2 | 1417.447 | -51.92 | -13.00 | Horizontal | PASS |
| 3 | 1898.279 | -49.36 | -13.00 | Horizontal | NA |
| 4 | 1978.952 | -35.87 | -13.00 | Horizontal | NA |
| 5 | 7117.476 | -41.51 | -13.00 | Horizontal | PASS |
| 6 | 11072.813 | -37.07 | -13.00 | Horizontal | PASS |

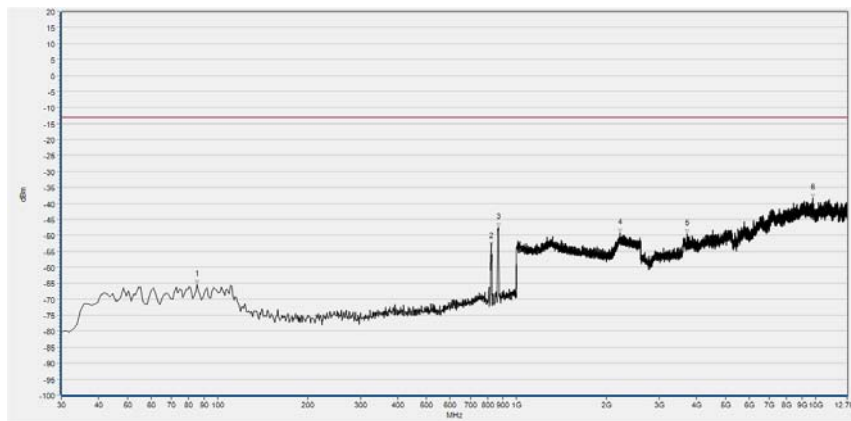


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 93.050 | -66.02 | -13.00 | Vertical | PASS |
| 2 | 1330.372 | -50.38 | -13.00 | Vertical | PASS |
| 3 | 1980.872 | -46.72 | -13.00 | Vertical | NA |
| 4 | 4555.265 | -48.55 | -13.00 | Vertical | PASS |
| 5 | 7964.757 | -41.14 | -13.00 | Vertical | PASS |
| 6 | 15675.832 | -31.28 | -13.00 | Vertical | PASS |

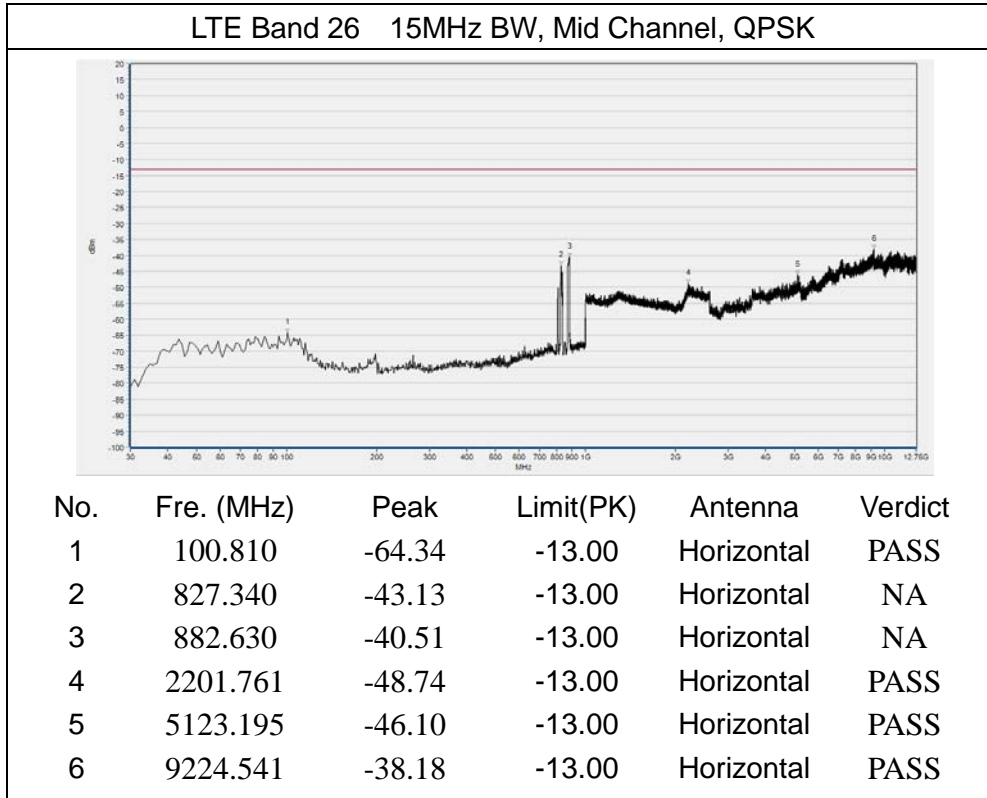
LTE Band 26 15MHz BW, Low Channel, QPSK

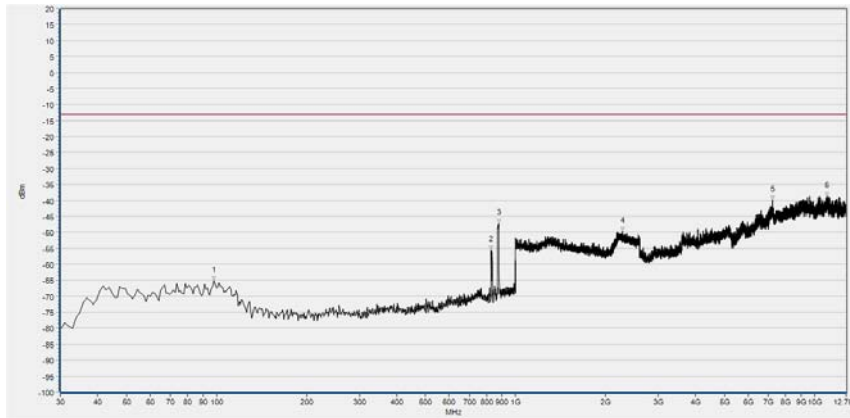


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 105.660 | -65.77 | -13.00 | Horizontal | PASS |
| 2 | 815.700 | -48.96 | -13.00 | Horizontal | NA |
| 3 | 871.960 | -43.49 | -13.00 | Horizontal | NA |
| 4 | 2251.060 | -49.72 | -13.00 | Horizontal | PASS |
| 5 | 5752.610 | -45.26 | -13.00 | Horizontal | PASS |
| 6 | 9687.834 | -38.75 | -13.00 | Horizontal | PASS |



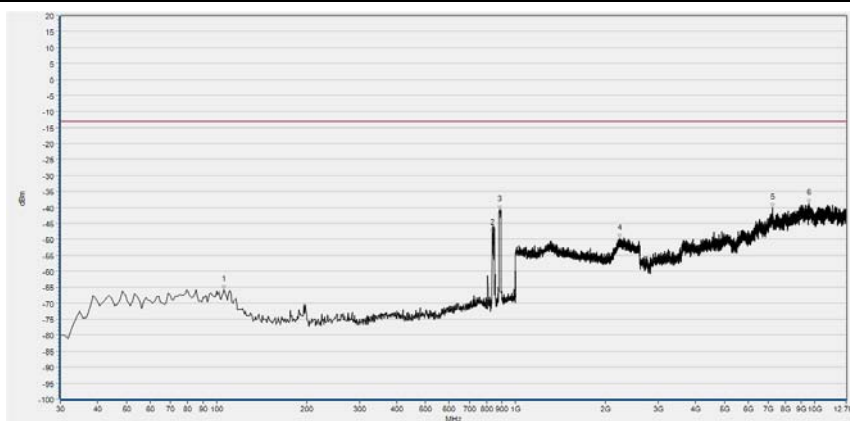
| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 85.290 | -65.43 | -13.00 | Vertical | PASS |
| 2 | 822.490 | -53.59 | -13.00 | Vertical | NA |
| 3 | 869.050 | -47.50 | -13.00 | Vertical | NA |
| 4 | 2222.249 | -49.19 | -13.00 | Vertical | PASS |
| 5 | 3722.240 | -49.60 | -13.00 | Vertical | PASS |
| 6 | 9789.353 | -38.28 | -13.00 | Vertical | PASS |



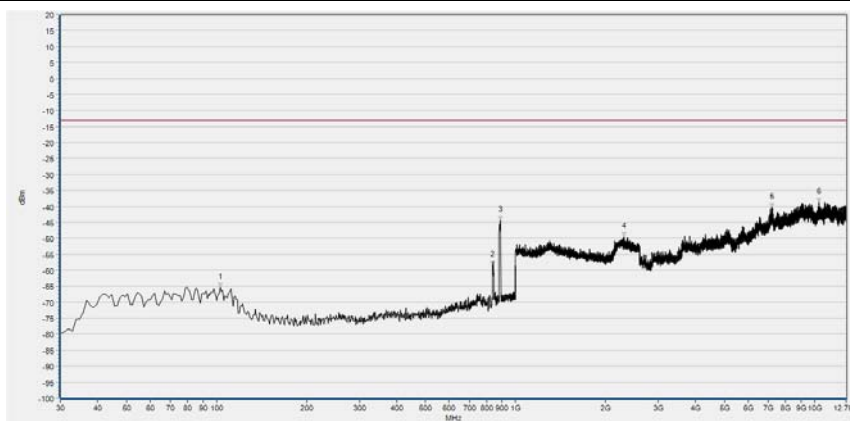


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 97.900 | -65.25 | -13.00 | Vertical | PASS |
| 2 | 827.340 | -55.57 | -13.00 | Vertical | NA |
| 3 | 877.780 | -47.34 | -13.00 | Vertical | NA |
| 4 | 2277.311 | -49.83 | -13.00 | Vertical | PASS |
| 5 | 7242.162 | -39.88 | -13.00 | Vertical | PASS |
| 6 | 10989.116 | -38.74 | -13.00 | Vertical | PASS |

LTE Band 26 15MHz BW, High Channel, QPSK

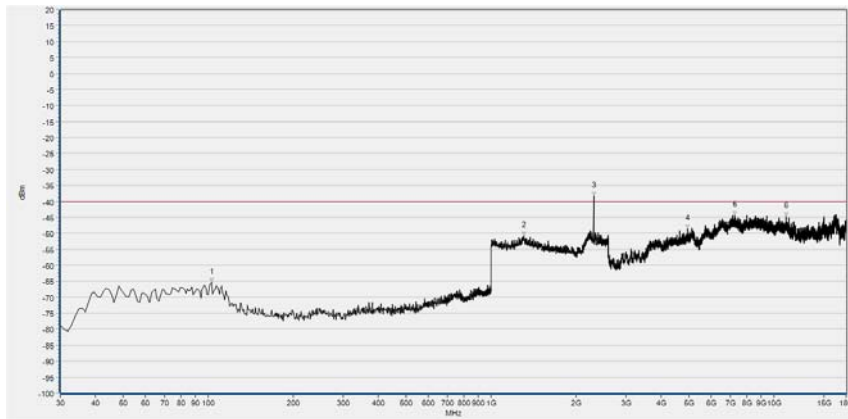


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 105.660 | -65.77 | -13.00 | Horizontal | PASS |
| 2 | 835.100 | -48.25 | -13.00 | Horizontal | NA |
| 3 | 882.630 | -40.75 | -13.00 | Horizontal | NA |
| 4 | 2226.731 | -49.71 | -13.00 | Horizontal | PASS |
| 5 | 7234.779 | -40.20 | -13.00 | Horizontal | PASS |
| 6 | 9554.937 | -38.72 | -13.00 | Horizontal | PASS |

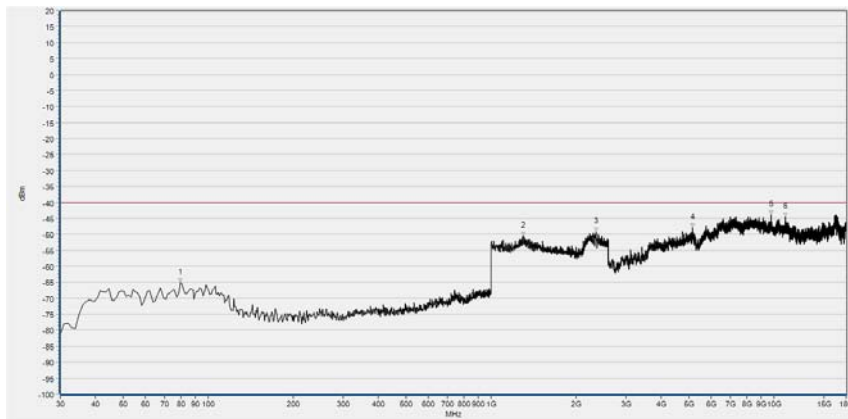


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 102.750 | -65.47 | -13.00 | Vertical | PASS |
| 2 | 838.980 | -58.41 | -13.00 | Vertical | NA |
| 3 | 890.390 | -44.40 | -13.00 | Vertical | NA |
| 4 | 2309.324 | -49.55 | -13.00 | Vertical | PASS |
| 5 | 7194.172 | -40.28 | -13.00 | Vertical | PASS |
| 6 | 10367.085 | -38.81 | -13.00 | Vertical | PASS |

LTE Band 30 10MHz BW, Low Channel, QPSK

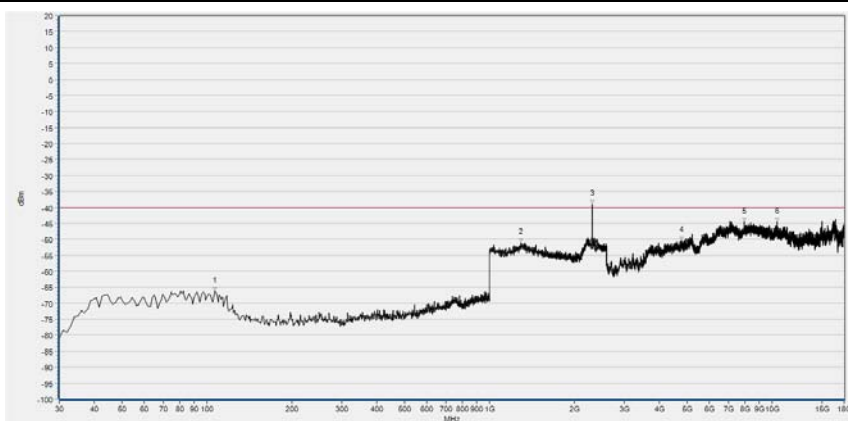


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 102.823 | -65.44 | -40.00 | Horizontal | PASS |
| 2 | 1305.906 | -50.88 | -40.00 | Horizontal | PASS |
| 3 | 2306.907 | -38.42 | -40.00 | Horizontal | NA |
| 4 | 4953.591 | -48.70 | -40.00 | Horizontal | PASS |
| 5 | 7251.730 | -44.41 | -40.00 | Horizontal | PASS |
| 6 | 11062.452 | -44.91 | -40.00 | Horizontal | PASS |

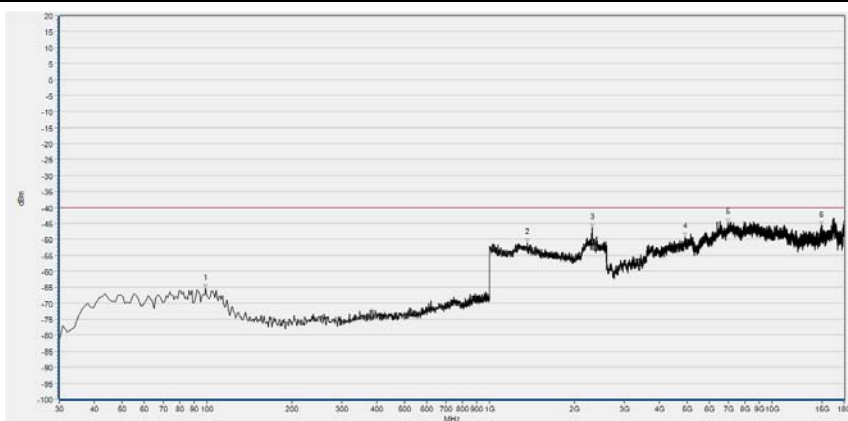


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|----------|---------|
| 1 | 79.520 | -65.19 | -40.00 | Vertical | PASS |
| 2 | 1302.703 | -50.67 | -40.00 | Vertical | PASS |
| 3 | 2348.549 | -49.38 | -40.00 | Vertical | PASS |
| 4 | 5153.831 | -47.88 | -40.00 | Vertical | PASS |
| 5 | 9783.997 | -43.82 | -40.00 | Vertical | PASS |
| 6 | 10963.873 | -44.67 | -40.00 | Vertical | PASS |

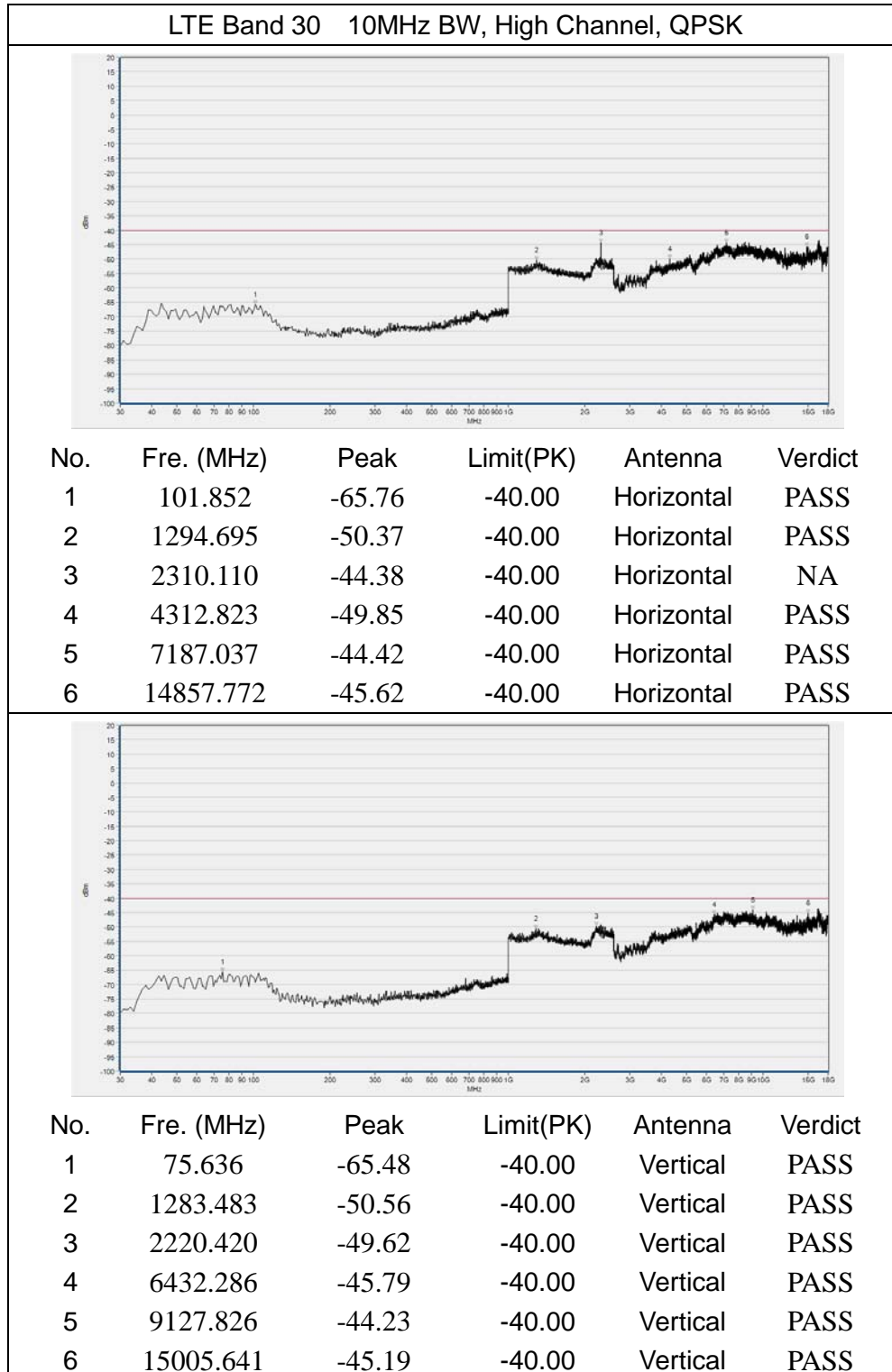
LTE Band 30 10MHz BW, Mid Channel, QPSK



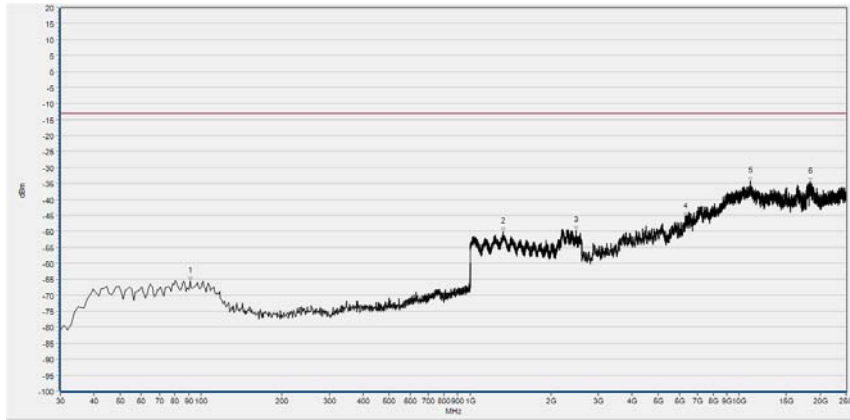
| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 106.707 | -66.25 | -40.00 | Horizontal | PASS |
| 2 | 1293.093 | -51.02 | -40.00 | Horizontal | PASS |
| 3 | 2308.509 | -39.08 | -40.00 | Horizontal | NA |
| 4 | 4793.399 | -50.47 | -40.00 | Horizontal | PASS |
| 5 | 7994.159 | -44.61 | -40.00 | Horizontal | PASS |
| 6 | 10409.362 | -44.52 | -40.00 | Horizontal | PASS |



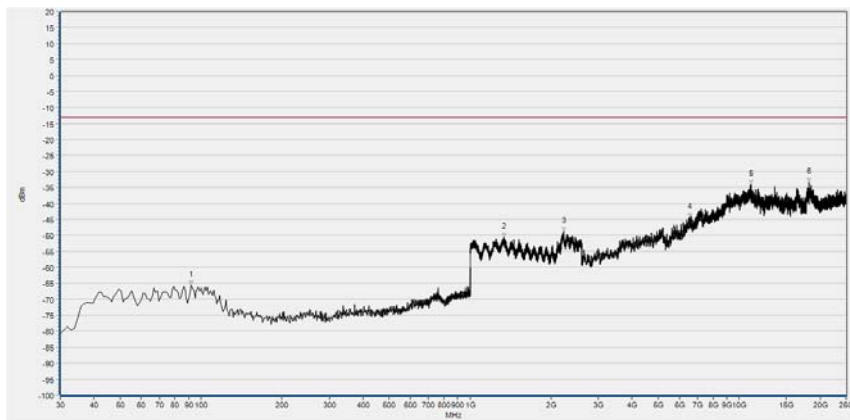
| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|----------|---------|
| 1 | 98.939 | -65.45 | -40.00 | Vertical | PASS |
| 2 | 1361.962 | -51.00 | -40.00 | Vertical | PASS |
| 3 | 2308.509 | -46.31 | -40.00 | Vertical | NA |
| 4 | 4919.704 | -49.24 | -40.00 | Vertical | PASS |
| 5 | 6959.072 | -44.83 | -40.00 | Vertical | PASS |
| 6 | 14980.996 | -45.61 | -40.00 | Vertical | PASS |



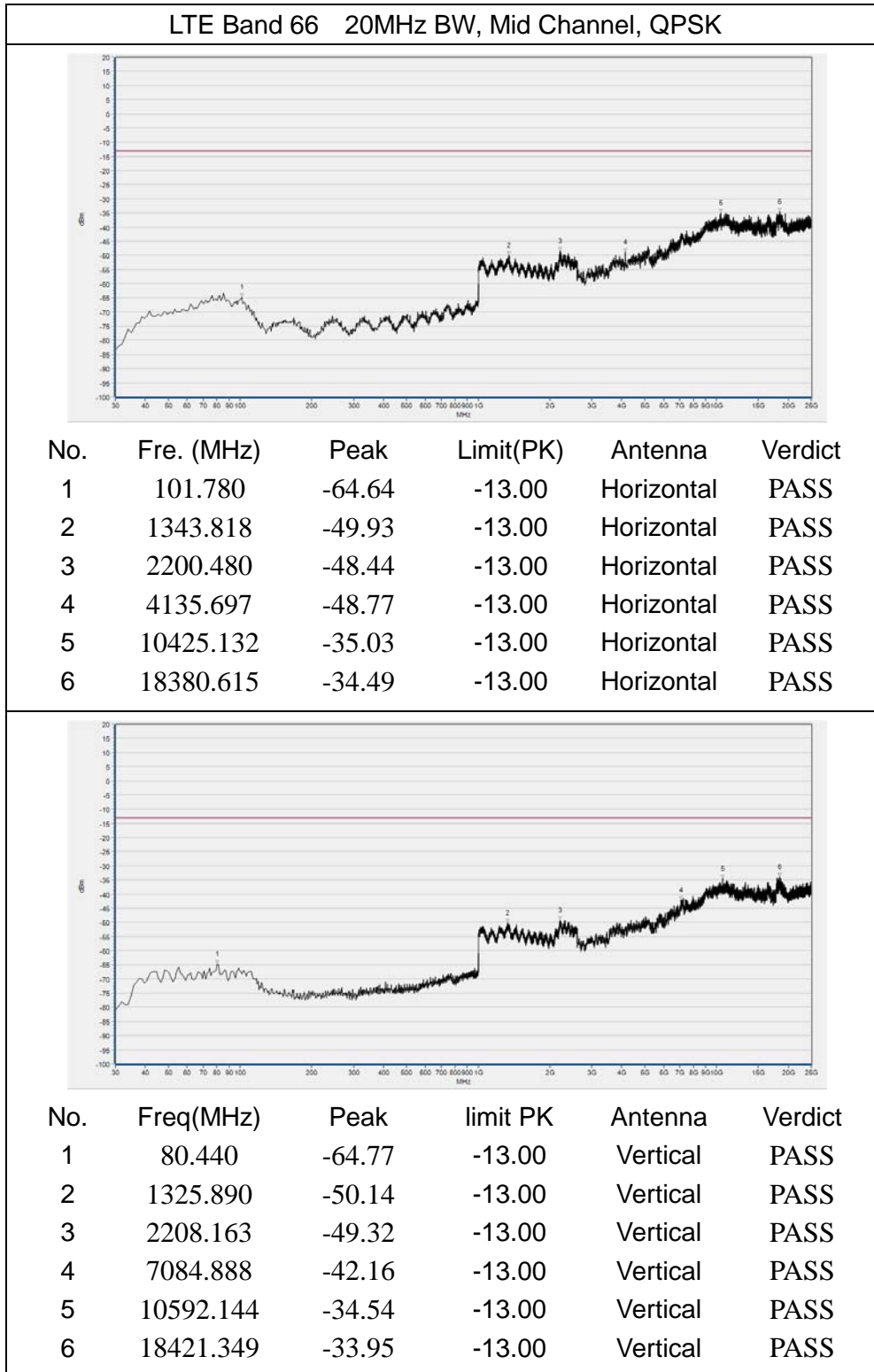
LTE Band 66 20MHz BW, Low Channel, QPSK



| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 91.110 | -65.57 | -13.00 | Horizontal | PASS |
| 2 | 1329.732 | -50.10 | -13.00 | Horizontal | PASS |
| 3 | 2481.553 | -49.81 | -13.00 | Horizontal | PASS |
| 4 | 6315.003 | -45.51 | -13.00 | Horizontal | PASS |
| 5 | 11015.785 | -34.37 | -13.00 | Horizontal | PASS |
| 6 | 18441.717 | -34.54 | -13.00 | Horizontal | PASS |

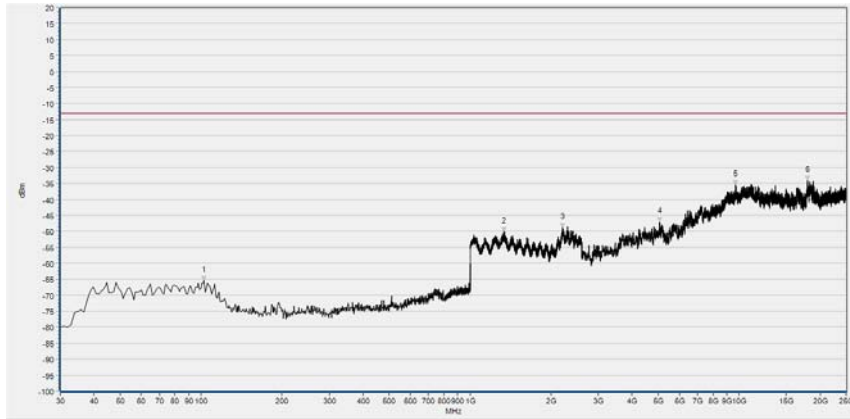


| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 92.080 | -65.59 | -13.00 | Vertical | PASS |
| 2 | 1337.415 | -50.67 | -13.00 | Vertical | PASS |
| 3 | 2227.371 | -48.90 | -13.00 | Vertical | PASS |
| 4 | 6543.117 | -44.29 | -13.00 | Vertical | PASS |
| 5 | 11068.740 | -34.01 | -13.00 | Vertical | PASS |
| 6 | 18168.794 | -33.31 | -13.00 | Vertical | PASS |

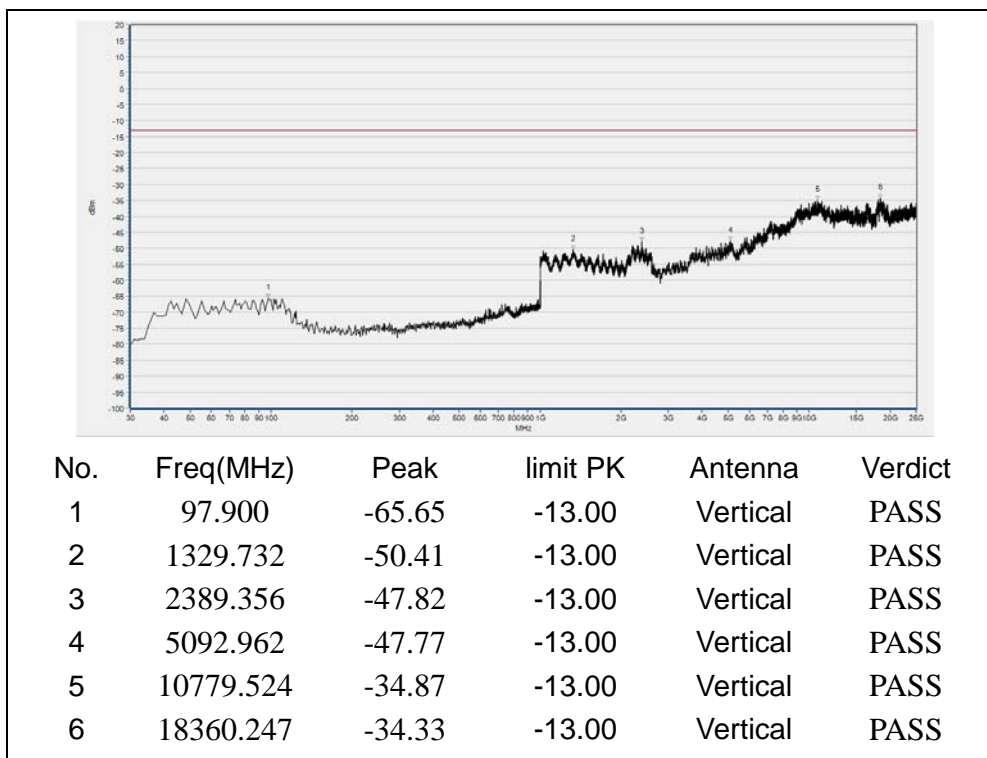




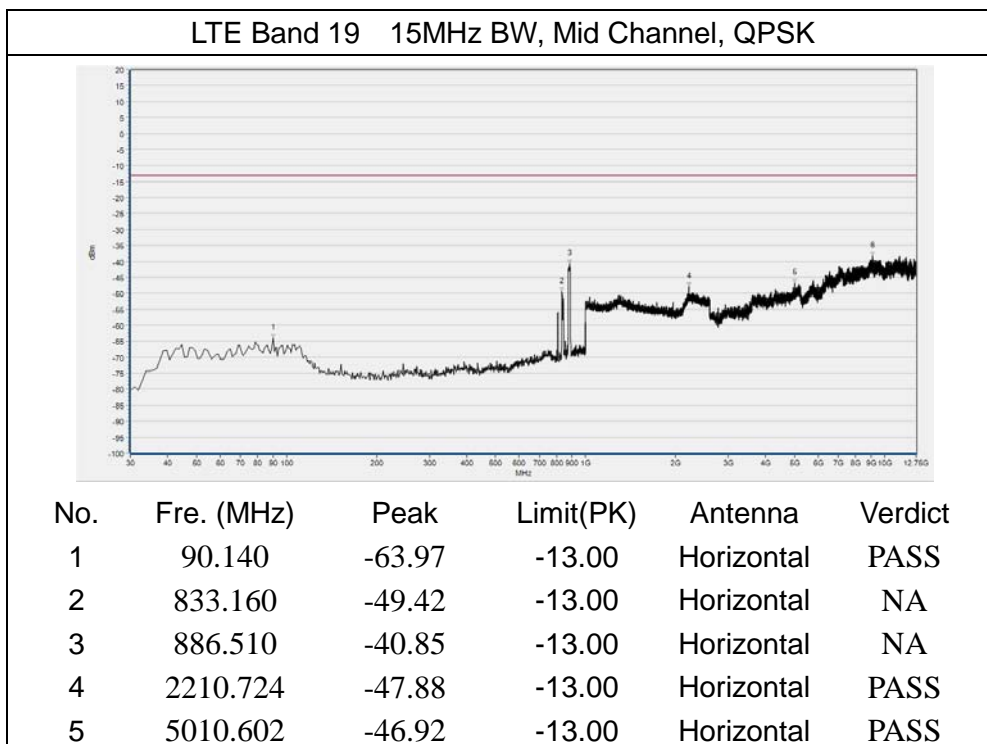
LTE Band 66 20MHz BW, High Channel, QPSK

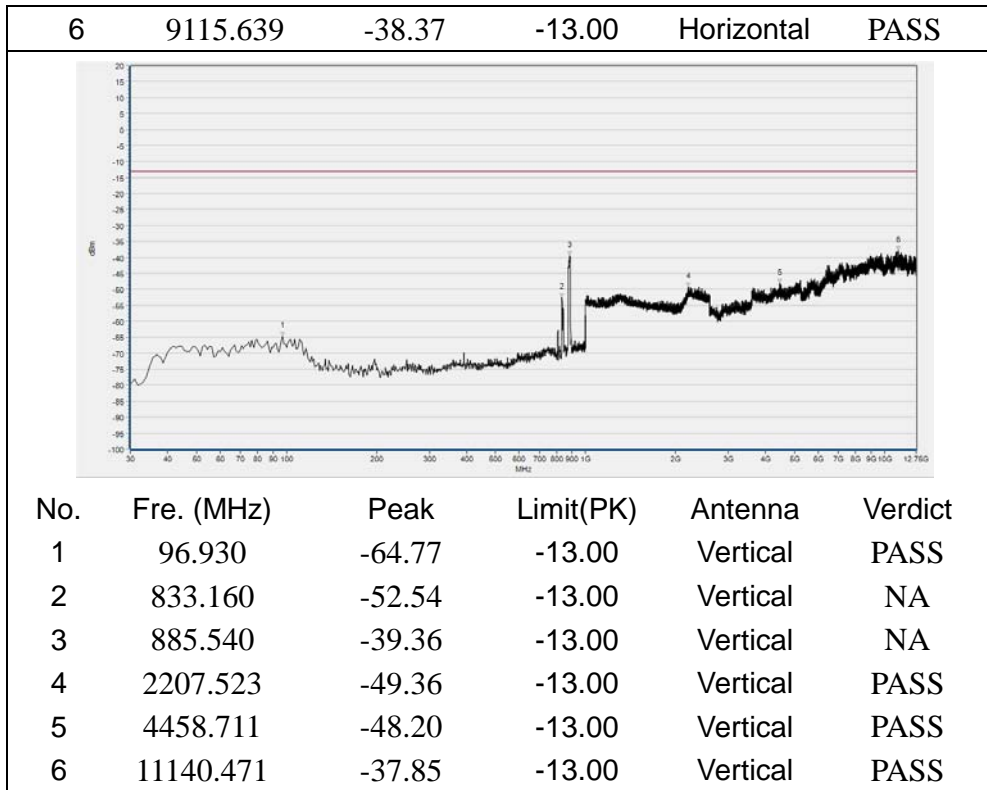


| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 102.750 | -65.37 | -13.00 | Horizontal | PASS |
| 2 | 1338.695 | -50.14 | -13.00 | Horizontal | PASS |
| 3 | 2212.005 | -48.87 | -13.00 | Horizontal | PASS |
| 4 | 5068.522 | -47.07 | -13.00 | Horizontal | PASS |
| 5 | 9720.422 | -35.52 | -13.00 | Horizontal | PASS |
| 6 | 17993.635 | -34.14 | -13.00 | Horizontal | PASS |

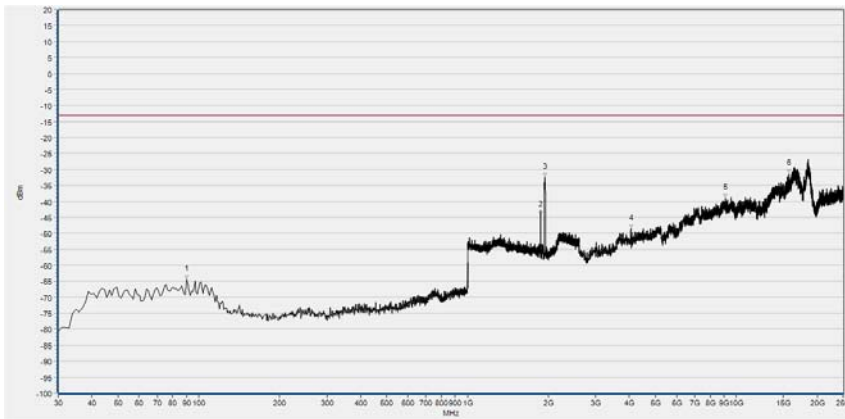


Bottom Antenna:

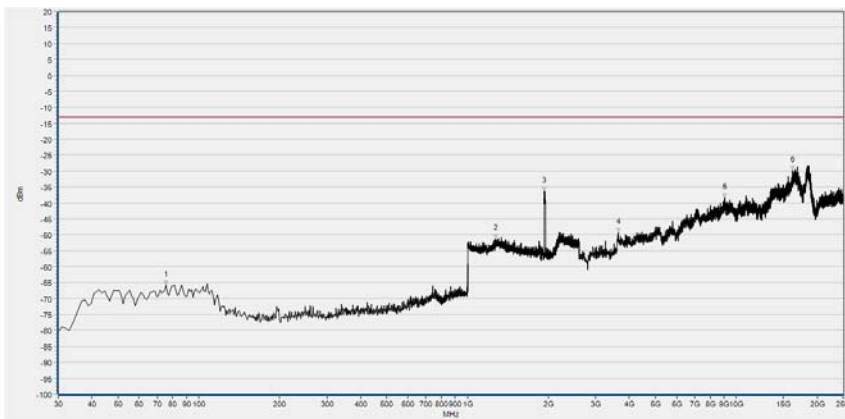




LTE Band 25 20MHz BW, Low Channel, QPSK



| No. | Fre. (MHz) | Peak | Limit(PK) | Antenna | Verdict |
|-----|------------|--------|-----------|------------|---------|
| 1 | 90.140 | -64.45 | -13.00 | Horizontal | PASS |
| 2 | 1868.187 | -44.30 | -13.00 | Horizontal | NA |
| 3 | 1936.054 | -32.61 | -13.00 | Horizontal | NA |
| 4 | 4058.302 | -48.64 | -13.00 | Horizontal | PASS |
| 5 | 9093.108 | -39.10 | -13.00 | Horizontal | PASS |
| 6 | 15671.759 | -31.29 | -13.00 | Horizontal | PASS |



| No. | Freq(MHz) | Peak | limit PK | Antenna | Verdict |
|-----|-----------|--------|----------|----------|---------|
| 1 | 75.590 | -65.88 | -13.00 | Vertical | PASS |
| 2 | 1275.950 | -51.21 | -13.00 | Vertical | PASS |
| 3 | 1934.134 | -36.21 | -13.00 | Vertical | NA |
| 4 | 3642.808 | -49.18 | -13.00 | Vertical | PASS |
| 5 | 9068.667 | -38.23 | -13.00 | Vertical | PASS |
| 6 | 16185.015 | -29.88 | -13.00 | Vertical | PASS |