
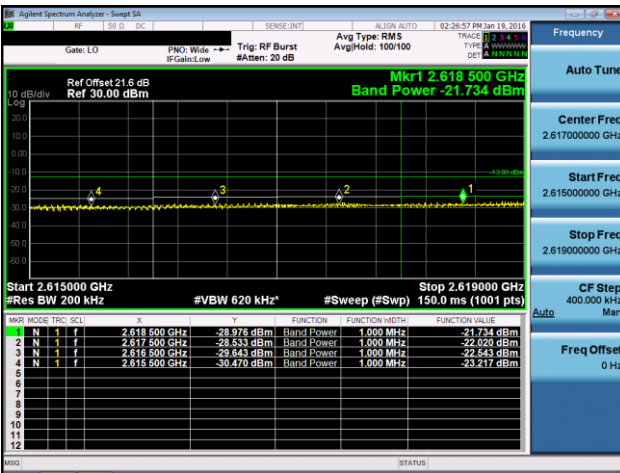



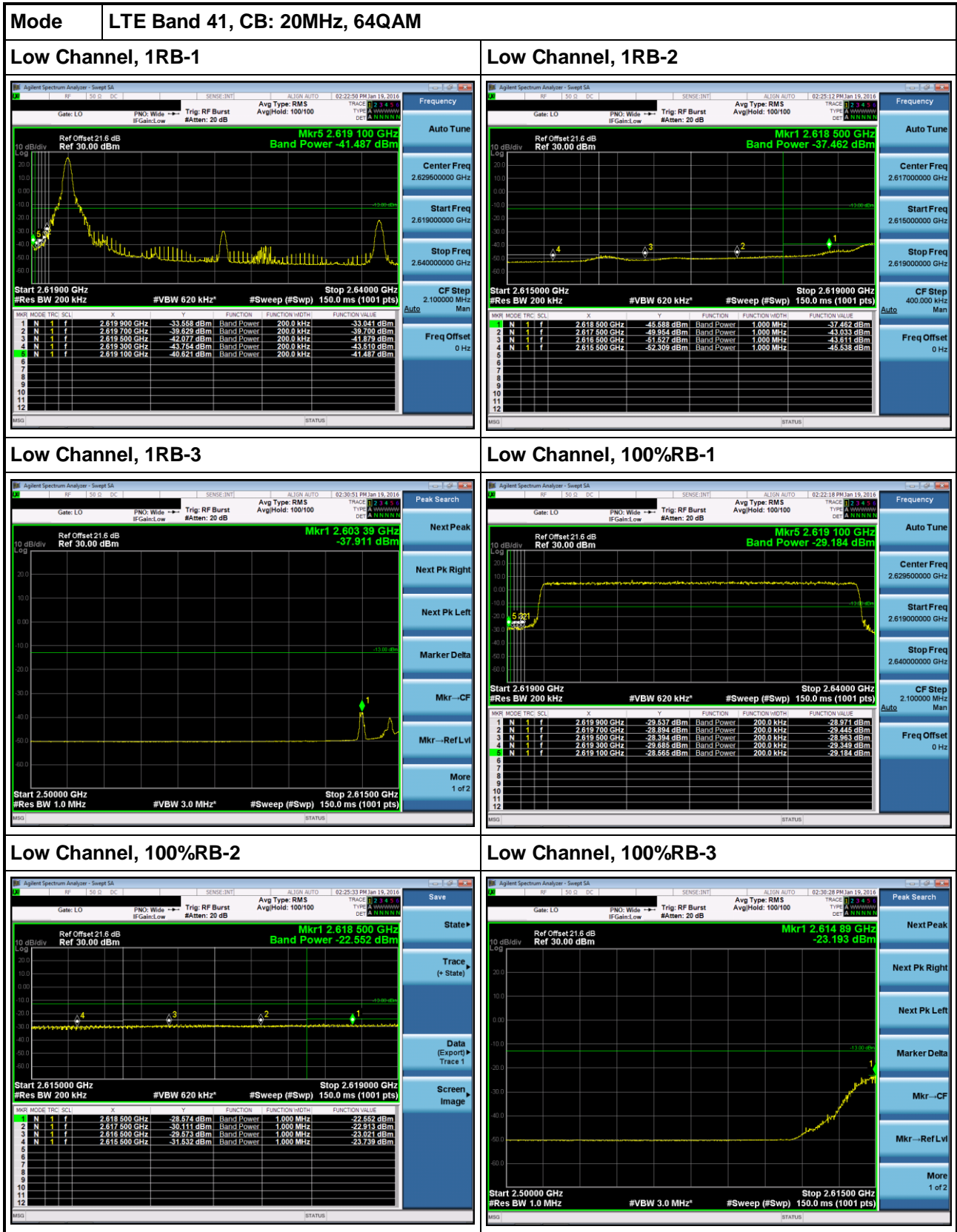
LTE Band 41, CB: 20MHz

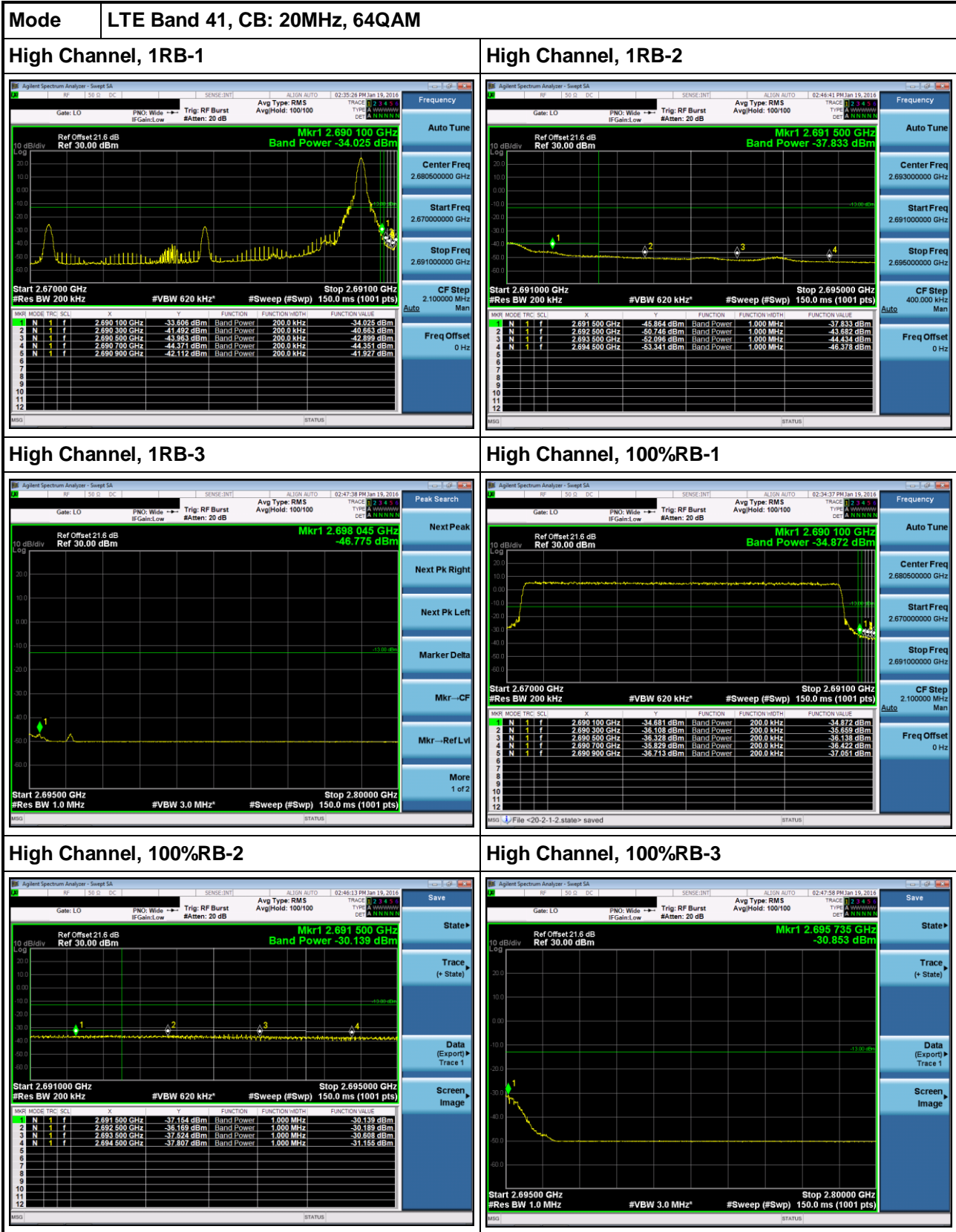
| Mode | | LTE Band 41, CB: 20MHz, QPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|------------------------------|------|---------------|-------------|------------|-----------------------|----------|----------------|---|---|---|---|---------------|-------------|------------|-----------------------|---|---|---|---|---------------|-------------|------------|-----------------------|---|---|---|---|---------------|-------------|------------|-----------------------|---|---|---|---|---------------|-------------|------------|-----------------------|---|---|---|---|---------------|-------------|------------|-----------------------|---|--|
| Low Channel, 1RB-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Agilent Spectrum Analyzer - Swept SA Gate: LO PNO: Wide IF Gain: Low Trig: RF Burst #Atten: 20 dB Avg Type: RMS AvgHold: 100/100</p> <p>Ref Offset 21.6 dB Ref 30.00 dBm</p> <p>Mkr5 2.619 100 GHz Band Power -40.599 dBm</p> <p>Start 2.619000 GHz #Res BW 200 kHz #VBW 620 kHz* #Sweep (#Swp) 150.0 ms (1001 pts) Stop 2.640000 GHz</p> <table border="1"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 900 GHz</td> <td>-32.320 dBm</td> <td>Band Power</td> <td>200.0 kHz -31.221 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 700 GHz</td> <td>-38.751 dBm</td> <td>Band Power</td> <td>200.0 kHz -38.753 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 500 GHz</td> <td>-39.846 dBm</td> <td>Band Power</td> <td>200.0 kHz -40.587 dBm</td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 300 GHz</td> <td>-43.895 dBm</td> <td>Band Power</td> <td>200.0 kHz -42.822 dBm</td> </tr> <tr> <td>5</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 100 GHz</td> <td>-41.072 dBm</td> <td>Band Power</td> <td>200.0 kHz -40.599 dBm</td> </tr> </tbody> </table> | | MNR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION VALUE | 1 | N | 1 | f | 2.619 900 GHz | -32.320 dBm | Band Power | 200.0 kHz -31.221 dBm | 2 | N | 1 | f | 2.619 700 GHz | -38.751 dBm | Band Power | 200.0 kHz -38.753 dBm | 3 | N | 1 | f | 2.619 500 GHz | -39.846 dBm | Band Power | 200.0 kHz -40.587 dBm | 4 | N | 1 | f | 2.619 300 GHz | -43.895 dBm | Band Power | 200.0 kHz -42.822 dBm | 5 | N | 1 | f | 2.619 100 GHz | -41.072 dBm | Band Power | 200.0 kHz -40.599 dBm | <p>Auto Tune</p> <p>Center Freq 2.629500000 GHz</p> <p>Start Freq 2.619000000 GHz</p> <p>Stop Freq 2.640000000 GHz</p> <p>CF Step 2.1000000 MHz</p> <p>Freq Offset 0 Hz</p> | |
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| 2 | N | 1 | f | 2.619 700 GHz | -38.751 dBm | Band Power | 200.0 kHz -38.753 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | N | 1 | f | 2.619 500 GHz | -39.846 dBm | Band Power | 200.0 kHz -40.587 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | N | 1 | f | 2.619 300 GHz | -43.895 dBm | Band Power | 200.0 kHz -42.822 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | N | 1 | f | 2.619 100 GHz | -41.072 dBm | Band Power | 200.0 kHz -40.599 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Channel, 1RB-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | N | 1 | f | 2.618 500 GHz | -44.301 dBm | Band Power | 1.000 MHz -38.500 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | N | 1 | f | 2.617 500 GHz | -49.080 dBm | Band Power | 1.000 MHz -42.354 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | N | 1 | f | 2.616 500 GHz | -50.972 dBm | Band Power | 1.000 MHz -42.855 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | N | 1 | f | 2.615 500 GHz | -51.592 dBm | Band Power | 1.000 MHz -44.534 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Channel, 1RB-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MNR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION VALUE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 | N | 1 | f | 2.619 300 GHz | -28.760 dBm | Band Power | 200.0 kHz -28.537 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 | N | 1 | f | 2.615 500 GHz | -30.470 dBm | Band Power | 1.000 MHz -23.217 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Channel, 100%RB-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Agilent Spectrum Analyzer - Swept SA Gate: LO PNO: Wide IF Gain: Low Trig: RF Burst #Atten: 20 dB Avg Type: RMS AvgHold: 100/100</p> <p>Ref Offset 21.6 dB Ref 30.00 dBm</p> <p>Mkr1 2.615 00 GHz Band Power -22.890 dBm</p> <p>Start 2.500000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep (#Swp) 150.0 ms (1001 pts) Stop 2.615000 GHz</p> <table border="1"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 900 GHz</td> <td>-28.188 dBm</td> <td>Band Power</td> <td>200.0 kHz -27.584 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 700 GHz</td> <td>-27.656 dBm</td> <td>Band Power</td> <td>200.0 kHz -27.272 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 500 GHz</td> <td>-29.129 dBm</td> <td>Band Power</td> <td>200.0 kHz -28.607 dBm</td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 300 GHz</td> <td>-28.760 dBm</td> <td>Band Power</td> <td>200.0 kHz -28.537 dBm</td> </tr> <tr> <td>5</td> <td>N</td> <td>1</td> <td>f</td> <td>2.619 100 GHz</td> <td>-28.461 dBm</td> <td>Band Power</td> <td>200.0 kHz -28.497 dBm</td> </tr> </tbody> </table> | | MNR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION VALUE | 1 | N | 1 | f | 2.619 900 GHz | -28.188 dBm | Band Power | 200.0 kHz -27.584 dBm | 2 | N | 1 | f | 2.619 700 GHz | -27.656 dBm | Band Power | 200.0 kHz -27.272 dBm | 3 | N | 1 | f | 2.619 500 GHz | -29.129 dBm | Band Power | 200.0 kHz -28.607 dBm | 4 | N | 1 | f | 2.619 300 GHz | -28.760 dBm | Band Power | 200.0 kHz -28.537 dBm | 5 | N | 1 | f | 2.619 100 GHz | -28.461 dBm | Band Power | 200.0 kHz -28.497 dBm | <p>Peak Search</p> <p>Next Peak</p> <p>Next Pk Right</p> <p>Next Pk Left</p> <p>Marker Delta</p> <p>Mkr--CF</p> <p>Mkr--RefLvl</p> <p>More 1 of 2</p> | |
| MNR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION VALUE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | N | 1 | f | 2.619 900 GHz | -28.188 dBm | Band Power | 200.0 kHz -27.584 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | N | 1 | f | 2.619 700 GHz | -27.656 dBm | Band Power | 200.0 kHz -27.272 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | N | 1 | f | 2.619 500 GHz | -29.129 dBm | Band Power | 200.0 kHz -28.607 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | N | 1 | f | 2.619 300 GHz | -28.760 dBm | Band Power | 200.0 kHz -28.537 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | N | 1 | f | 2.619 100 GHz | -28.461 dBm | Band Power | 200.0 kHz -28.497 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |









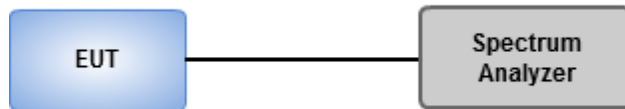


3.5 Emission and Occupied Bandwidth

3.5.1 Test Procedures

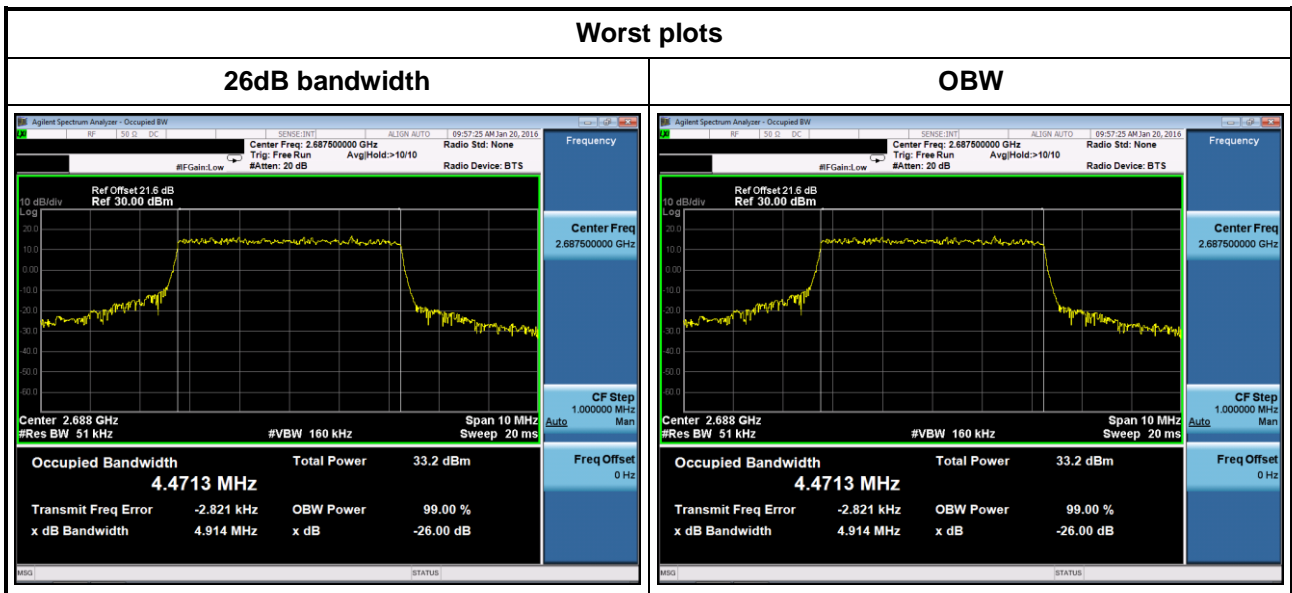
1. Set resolution bandwidth (RBW) = 51~200 kHz, Video bandwidth=160~620kHz for 5 ~ 20 MHz channel bandwidth.
2. Set Detector = Peak, Trace mode = max hold, Sweep = auto couple, Allow the trace to stabilize.
3. Using 26dB and occupied bandwidth measurement function of spectrum analyzer to measure bandwidth.

3.5.2 Test Setup

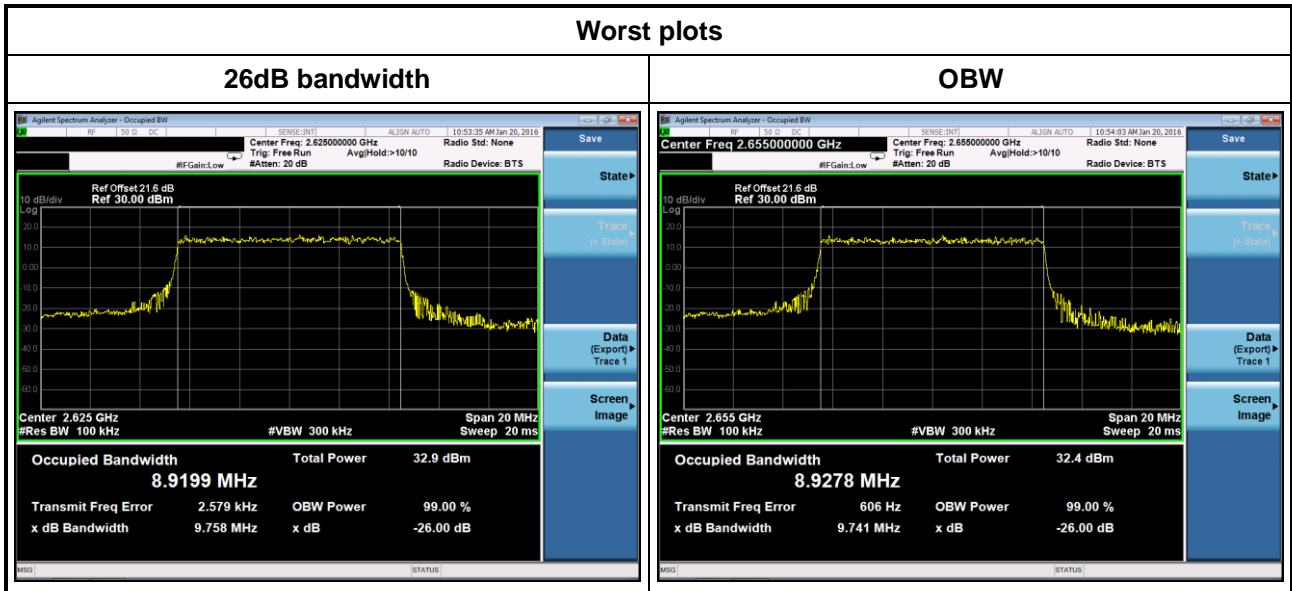


3.5.3 Test Result of Occupied Bandwidth

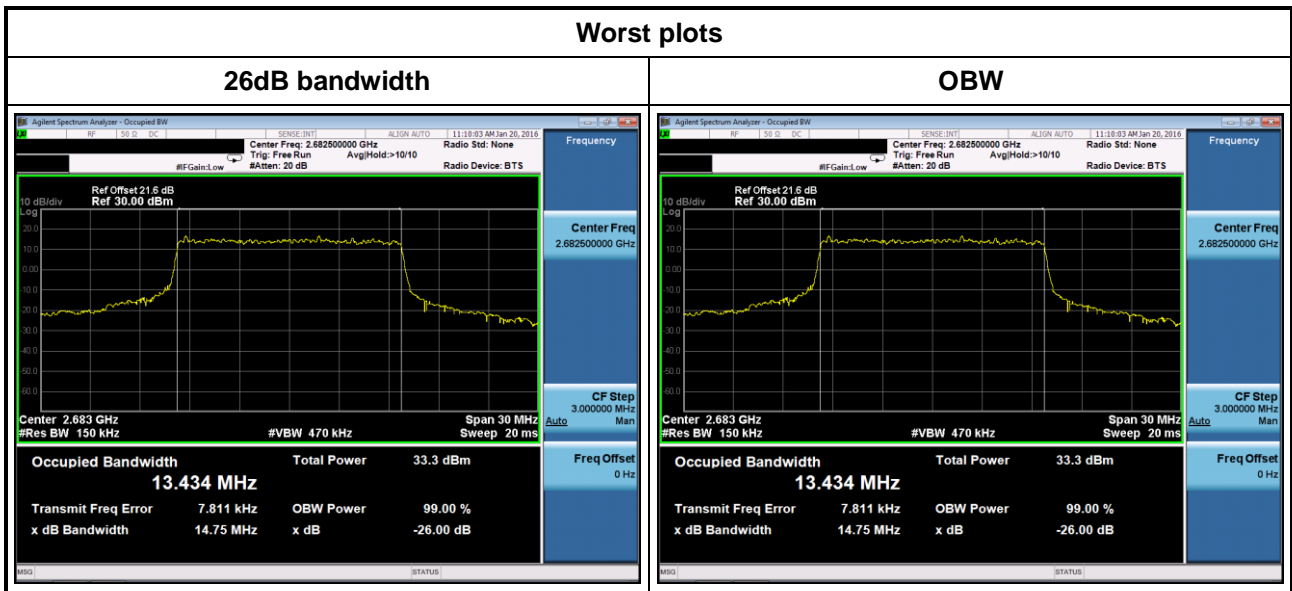
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 5 | QPSK | 2622.5 | 4.902 | 4.47 |
| 5 | QPSK | 2655.0 | 4.904 | 4.47 |
| 5 | QPSK | 2687.5 | 4.914 | 4.47 |
| 5 | 16QAM | 2622.5 | 4.908 | 4.47 |
| 5 | 16QAM | 2655.0 | 4.900 | 4.46 |
| 5 | 16QAM | 2687.5 | 4.901 | 4.47 |
| 5 | 64QAM | 2622.5 | 4.906 | 4.47 |
| 5 | 64QAM | 2655.0 | 4.901 | 4.46 |
| 5 | 64QAM | 2687.5 | 4.908 | 4.46 |



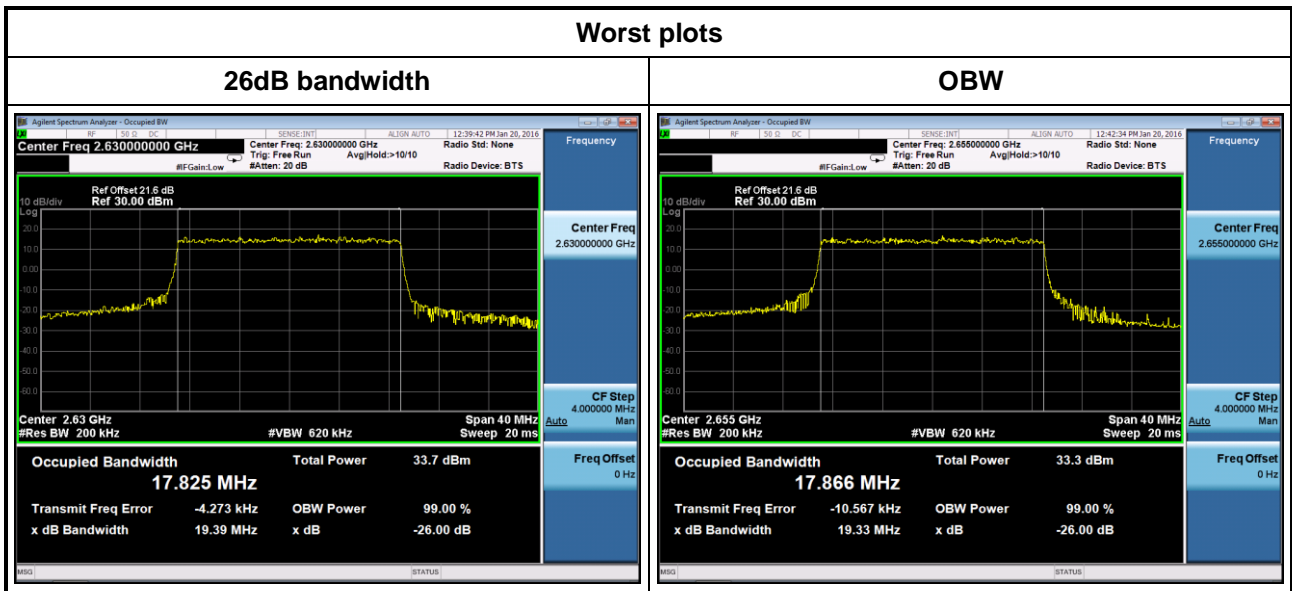
| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 10 | QPSK | 2625.0 | 9.638 | 8.93 |
| 10 | QPSK | 2655.0 | 9.648 | 8.92 |
| 10 | QPSK | 2685.0 | 9.606 | 8.92 |
| 10 | 16QAM | 2625.0 | 9.687 | 8.92 |
| 10 | 16QAM | 2655.0 | 9.678 | 8.92 |
| 10 | 16QAM | 2685.0 | 9.633 | 8.91 |
| 10 | 64QAM | 2625.0 | 9.758 | 8.92 |
| 10 | 64QAM | 2655.0 | 9.741 | 8.93 |
| 10 | 64QAM | 2685.0 | 9.738 | 8.92 |



| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 15 | QPSK | 2627.5 | 14.60 | 13.40 |
| 15 | QPSK | 2655.0 | 14.60 | 13.42 |
| 15 | QPSK | 2682.5 | 14.65 | 13.42 |
| 15 | 16QAM | 2627.5 | 14.68 | 13.43 |
| 15 | 16QAM | 2655.0 | 14.60 | 13.43 |
| 15 | 16QAM | 2682.5 | 14.66 | 13.42 |
| 15 | 64QAM | 2627.5 | 14.61 | 13.42 |
| 15 | 64QAM | 2655.0 | 14.72 | 13.42 |
| 15 | 64QAM | 2682.5 | 14.75 | 13.43 |



| Channel Bandwidth (MHz) | Modulation | Frequency (MHz) | 26dB BW (MHz) | 99% OBW (MHz) |
|-------------------------|------------|-----------------|---------------|---------------|
| 20 | QPSK | 2630.0 | 19.36 | 17.85 |
| 20 | QPSK | 2655.0 | 19.38 | 17.86 |
| 20 | QPSK | 2680.0 | 19.31 | 17.85 |
| 20 | 16QAM | 2630.0 | 19.36 | 17.85 |
| 20 | 16QAM | 2655.0 | 19.33 | 17.87 |
| 20 | 16QAM | 2680.0 | 19.34 | 17.85 |
| 20 | 64QAM | 2630.0 | 19.39 | 17.83 |
| 20 | 64QAM | 2655.0 | 19.31 | 17.84 |
| 20 | 64QAM | 2680.0 | 19.34 | 17.83 |



3.6 Frequency Stability

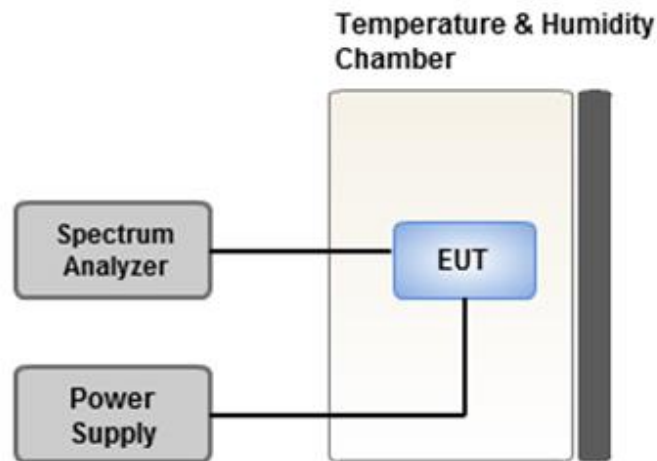
3.6.1 Limit of Frequency Stability

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

| LTE Band 41 | | | | | |
|------------------|--------------|-----------------------|-----------|-----------|-----------|
| Temperature (°C) | Voltage (ac) | Frequency Drift (ppm) | | | |
| | | CB: 5MHz | CB: 10MHz | CB: 15MHz | CB: 20MHz |
| 60 | 120 | 0.014 | 0.017 | 0.017 | 0.017 |
| 50 | 120 | 0.013 | 0.016 | 0.016 | 0.016 |
| 40 | 120 | 0.012 | 0.017 | 0.015 | 0.016 |
| 30 | 120 | 0.012 | 0.015 | 0.017 | 0.015 |
| 20 | 120 | 0.013 | 0.015 | 0.016 | 0.014 |
| 10 | 120 | 0.014 | 0.015 | 0.015 | 0.015 |
| 0 | 120 | 0.013 | 0.013 | 0.015 | 0.015 |
| -10 | 120 | 0.011 | 0.016 | 0.016 | 0.015 |
| -20 | 120 | 0.012 | 0.016 | 0.015 | 0.014 |
| -30 | 120 | 0.013 | 0.015 | 0.016 | 0.015 |
| -40 | 120 | 0.012 | 0.015 | 0.014 | 0.015 |
| 20 | 138 | 0.015 | 0.016 | 0.017 | 0.016 |
| 20 | 102 | 0.012 | 0.013 | 0.015 | 0.014 |

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, 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>.

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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 Hsiang, Tao
Yuan Hsien 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 Hsiang, Tao
Yuan Hsien 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==