



Appendix B

E-UTRA BAND 30



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1 Effective (Isotropic) Radiated Power Output Data

1.1. Conducted power Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) |
|--------|-----------|------------|---------|------------------|-------------|
| BAND30 | 5MHz | QPSK | 27685 | 1RB#0 | 22.86 |
| BAND30 | 5MHz | QPSK | 27685 | 1RB#12 | 22.69 |
| BAND30 | 5MHz | QPSK | 27685 | 1RB#24 | 22.73 |
| BAND30 | 5MHz | QPSK | 27685 | 12RB#0 | 21.77 |
| BAND30 | 5MHz | QPSK | 27685 | 12RB#6 | 21.56 |
| BAND30 | 5MHz | QPSK | 27685 | 12RB#13 | 21.59 |
| BAND30 | 5MHz | QPSK | 27685 | 25RB#0 | 21.60 |
| BAND30 | 5MHz | QPSK | 27710 | 1RB#0 | 22.79 |
| BAND30 | 5MHz | QPSK | 27710 | 1RB#12 | 22.85 |
| BAND30 | 5MHz | QPSK | 27710 | 1RB#24 | 22.65 |
| BAND30 | 5MHz | QPSK | 27710 | 12RB#0 | 21.67 |
| BAND30 | 5MHz | QPSK | 27710 | 12RB#6 | 21.66 |
| BAND30 | 5MHz | QPSK | 27710 | 12RB#13 | 21.81 |
| BAND30 | 5MHz | QPSK | 27710 | 25RB#0 | 21.75 |
| BAND30 | 5MHz | QPSK | 27735 | 1RB#0 | 22.89 |
| BAND30 | 5MHz | QPSK | 27735 | 1RB#12 | 22.73 |
| BAND30 | 5MHz | QPSK | 27735 | 1RB#24 | 22.82 |
| BAND30 | 5MHz | QPSK | 27735 | 12RB#0 | 21.87 |
| BAND30 | 5MHz | QPSK | 27735 | 12RB#6 | 21.63 |
| BAND30 | 5MHz | QPSK | 27735 | 12RB#13 | 21.73 |
| BAND30 | 5MHz | QPSK | 27735 | 25RB#0 | 21.63 |
| BAND30 | 5MHz | 16QAM | 27685 | 1RB#0 | 22.22 |
| BAND30 | 5MHz | 16QAM | 27685 | 1RB#12 | 21.97 |
| BAND30 | 5MHz | 16QAM | 27685 | 1RB#24 | 21.95 |
| BAND30 | 5MHz | 16QAM | 27685 | 12RB#0 | 20.74 |
| BAND30 | 5MHz | 16QAM | 27685 | 12RB#6 | 20.53 |
| BAND30 | 5MHz | 16QAM | 27685 | 12RB#13 | 20.59 |
| BAND30 | 5MHz | 16QAM | 27685 | 25RB#0 | 20.57 |
| BAND30 | 5MHz | 16QAM | 27710 | 1RB#0 | 21.87 |
| BAND30 | 5MHz | 16QAM | 27710 | 1RB#12 | 22.17 |
| BAND30 | 5MHz | 16QAM | 27710 | 1RB#24 | 21.83 |
| BAND30 | 5MHz | 16QAM | 27710 | 12RB#0 | 20.68 |
| BAND30 | 5MHz | 16QAM | 27710 | 12RB#6 | 20.65 |
| BAND30 | 5MHz | 16QAM | 27710 | 12RB#13 | 20.81 |
| BAND30 | 5MHz | 16QAM | 27710 | 25RB#0 | 20.71 |
| BAND30 | 5MHz | 16QAM | 27735 | 1RB#0 | 22.04 |
| BAND30 | 5MHz | 16QAM | 27735 | 1RB#12 | 22.03 |
| BAND30 | 5MHz | 16QAM | 27735 | 1RB#24 | 22.16 |
| BAND30 | 5MHz | 16QAM | 27735 | 12RB#0 | 20.85 |
| BAND30 | 5MHz | 16QAM | 27735 | 12RB#6 | 20.60 |
| BAND30 | 5MHz | 16QAM | 27735 | 12RB#13 | 20.71 |
| BAND30 | 5MHz | 16QAM | 27735 | 25RB#0 | 20.57 |
| BAND30 | 5MHz | 64QAM | 27685 | 1RB#0 | 21.12 |
| BAND30 | 5MHz | 64QAM | 27685 | 1RB#12 | 20.98 |
| BAND30 | 5MHz | 64QAM | 27685 | 1RB#24 | 21.04 |
| BAND30 | 5MHz | 64QAM | 27685 | 12RB#0 | 19.77 |

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Shenzhen Branch

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| | | | | | |
|--------|-------|-------|-------|---------|-------|
| BAND30 | 5MHz | 64QAM | 27685 | 12RB#6 | 19.57 |
| BAND30 | 5MHz | 64QAM | 27685 | 12RB#13 | 19.60 |
| BAND30 | 5MHz | 64QAM | 27685 | 25RB#0 | 19.59 |
| BAND30 | 5MHz | 64QAM | 27710 | 1RB#0 | 21.02 |
| BAND30 | 5MHz | 64QAM | 27710 | 1RB#12 | 21.06 |
| BAND30 | 5MHz | 64QAM | 27710 | 1RB#24 | 20.89 |
| BAND30 | 5MHz | 64QAM | 27710 | 12RB#0 | 19.67 |
| BAND30 | 5MHz | 64QAM | 27710 | 12RB#6 | 19.64 |
| BAND30 | 5MHz | 64QAM | 27710 | 12RB#13 | 19.83 |
| BAND30 | 5MHz | 64QAM | 27710 | 25RB#0 | 19.69 |
| BAND30 | 5MHz | 64QAM | 27735 | 1RB#0 | 21.05 |
| BAND30 | 5MHz | 64QAM | 27735 | 1RB#12 | 20.89 |
| BAND30 | 5MHz | 64QAM | 27735 | 1RB#24 | 21.01 |
| BAND30 | 5MHz | 64QAM | 27735 | 12RB#0 | 19.86 |
| BAND30 | 5MHz | 64QAM | 27735 | 12RB#6 | 19.58 |
| BAND30 | 5MHz | 64QAM | 27735 | 12RB#13 | 19.70 |
| BAND30 | 5MHz | 64QAM | 27735 | 25RB#0 | 19.58 |
| BAND30 | 10MHz | QPSK | 27710 | 1RB#0 | 22.97 |
| BAND30 | 10MHz | QPSK | 27710 | 1RB#24 | 22.85 |
| BAND30 | 10MHz | QPSK | 27710 | 1RB#49 | 22.85 |
| BAND30 | 10MHz | QPSK | 27710 | 25RB#0 | 21.79 |
| BAND30 | 10MHz | QPSK | 27710 | 25RB#12 | 21.83 |
| BAND30 | 10MHz | QPSK | 27710 | 25RB#25 | 21.67 |
| BAND30 | 10MHz | QPSK | 27710 | 50RB#0 | 21.93 |
| BAND30 | 10MHz | 16QAM | 27710 | 1RB#0 | 22.18 |
| BAND30 | 10MHz | 16QAM | 27710 | 1RB#24 | 22.18 |
| BAND30 | 10MHz | 16QAM | 27710 | 1RB#49 | 22.11 |
| BAND30 | 10MHz | 16QAM | 27710 | 25RB#0 | 20.86 |
| BAND30 | 10MHz | 16QAM | 27710 | 25RB#12 | 20.91 |
| BAND30 | 10MHz | 16QAM | 27710 | 25RB#25 | 20.73 |
| BAND30 | 10MHz | 16QAM | 27710 | 50RB#0 | 20.98 |
| BAND30 | 10MHz | 64QAM | 27710 | 1RB#0 | 21.11 |
| BAND30 | 10MHz | 64QAM | 27710 | 1RB#24 | 21.07 |
| BAND30 | 10MHz | 64QAM | 27710 | 1RB#49 | 21.00 |
| BAND30 | 10MHz | 64QAM | 27710 | 25RB#0 | 19.85 |
| BAND30 | 10MHz | 64QAM | 27710 | 25RB#12 | 19.87 |
| BAND30 | 10MHz | 64QAM | 27710 | 25RB#25 | 19.71 |
| BAND30 | 10MHz | 64QAM | 27710 | 50RB#0 | 19.98 |

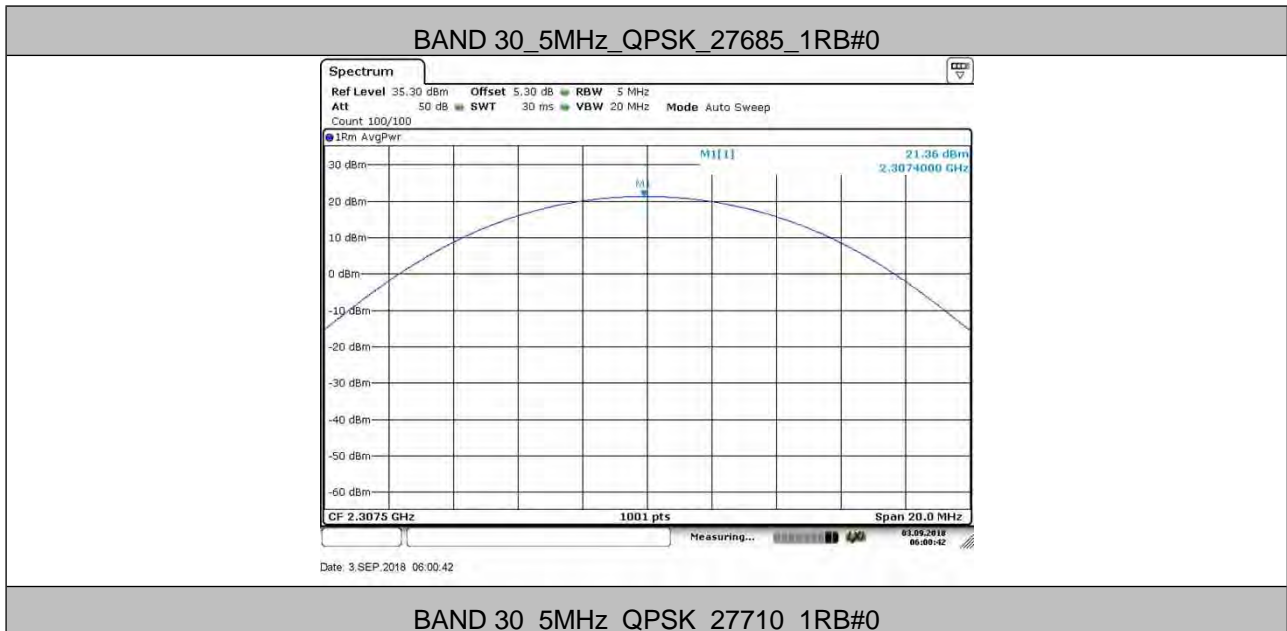
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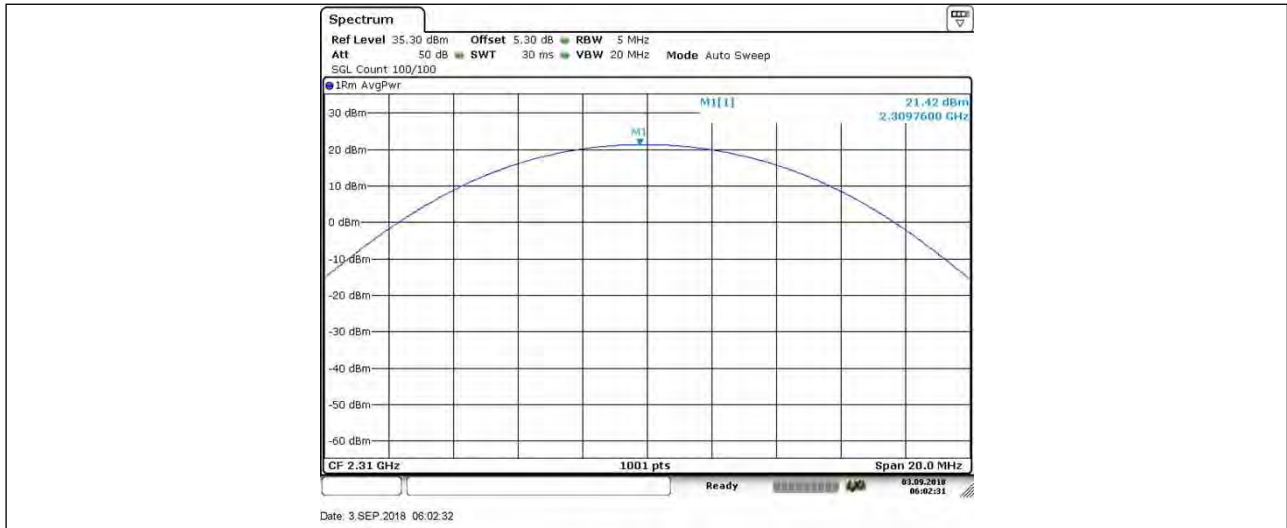
1.2. EIRP Density Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power Density (dBm/MHz) | EIRP Density (dBm/MHz) | Limit (dBm/MHz) | Result |
|--------|-----------|------------|---------|------------------|-----------------------------------|------------------------|-----------------|--------|
| BAND30 | 5MHz | QPSK | 27685 | 1RB#0 | 21.36 | 22.36 | 24 | Pass |
| BAND30 | 5MHz | QPSK | 27710 | 1RB#0 | 21.42 | 22.42 | 24 | Pass |
| BAND30 | 5MHz | QPSK | 27735 | 1RB#0 | 21.36 | 22.36 | 24 | Pass |
| BAND30 | 5MHz | 16QAM | 27685 | 1RB#0 | 20.35 | 21.35 | 24 | Pass |
| BAND30 | 5MHz | 16QAM | 27710 | 1RB#0 | 20.44 | 21.44 | 24 | Pass |
| BAND30 | 5MHz | 16QAM | 27735 | 1RB#0 <td 20.35 | 21.35 | 24 | Pass | |
| BAND30 | 5MHz | 64QAM | 27685 | 1RB#0 | 19.36 | 20.36 | 24 | Pass |
| BAND30 | 5MHz | 64QAM | 27710 | 1RB#0 | 19.42 | 20.42 | 24 | Pass |
| BAND30 | 5MHz | 64QAM | 27735 | 1RB#0 | 19.38 | 20.38 | 24 | Pass |
| BAND30 | 10MHz | QPSK | 27710 | 1RB#0 | 22.87 | 23.87 | 24 | Pass |
| BAND30 | 10MHz | 16QAM | 27710 | 1RB#0 | 21.98 | 22.98 | 24 | Pass |
| BAND30 | 10MHz | 64QAM | 27710 | 1RB#0 | 21.28 | 22.28 | 24 | Pass |

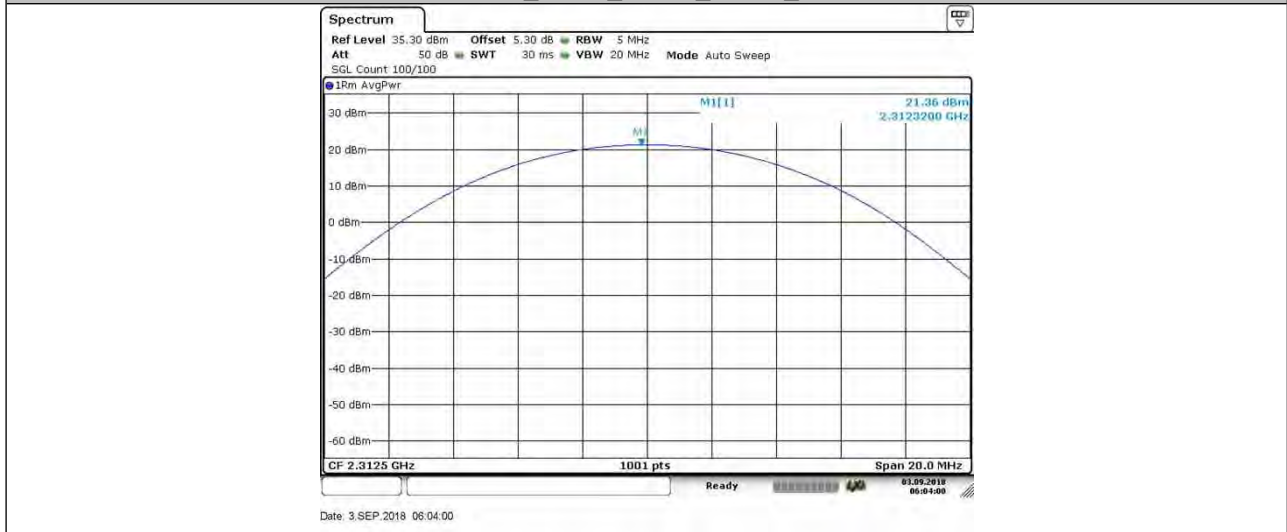
1.2.1. Test Plots



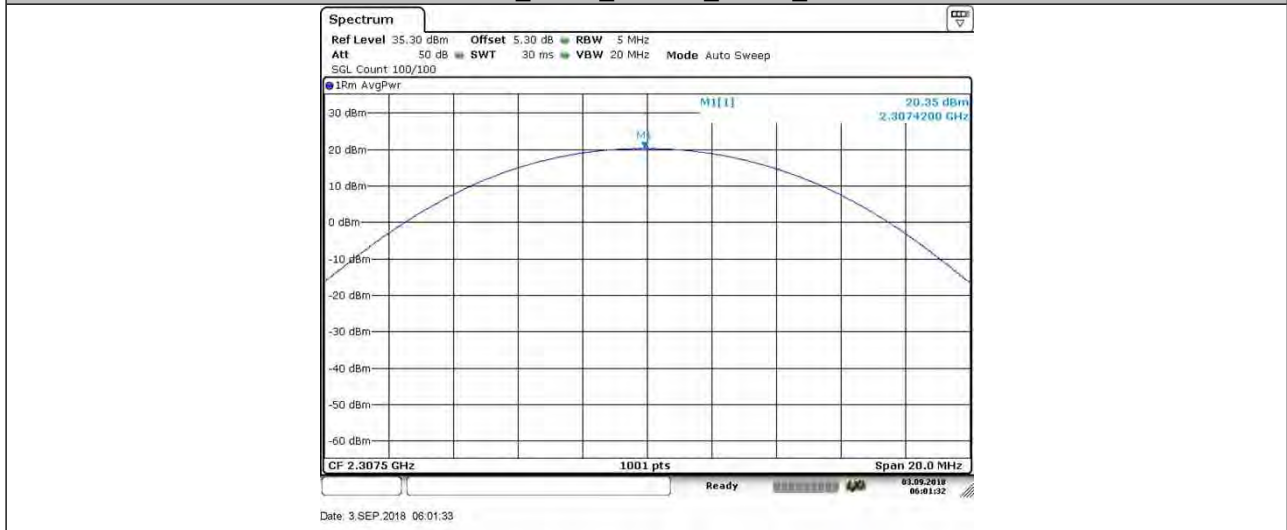
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BAND 30_5MHz_QPSK_27735_1RB#0

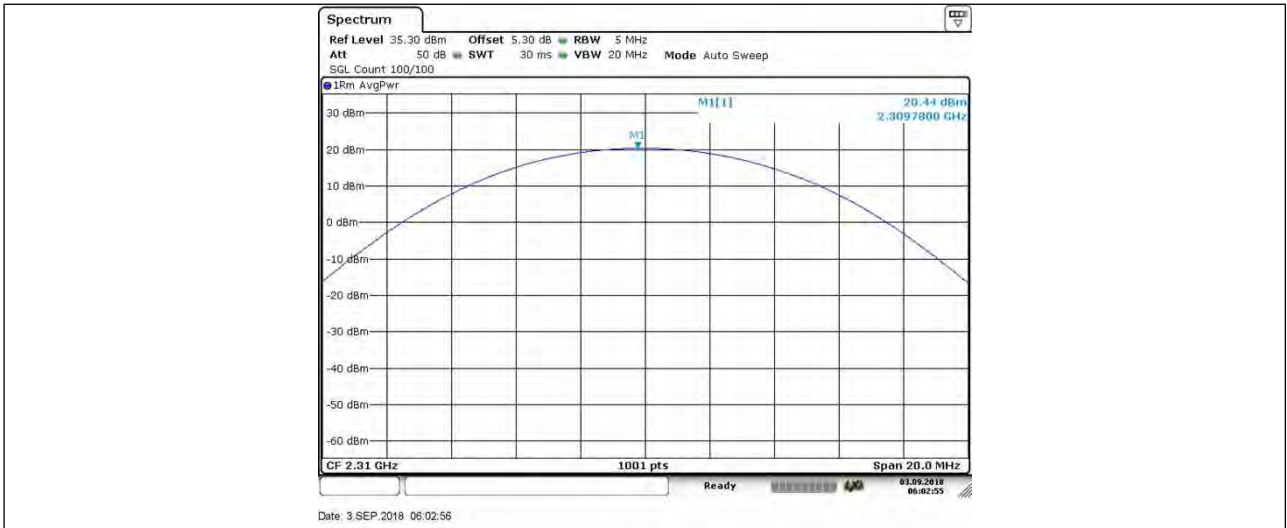


BAND 30_5MHz_16QAM_27685_1RB#0

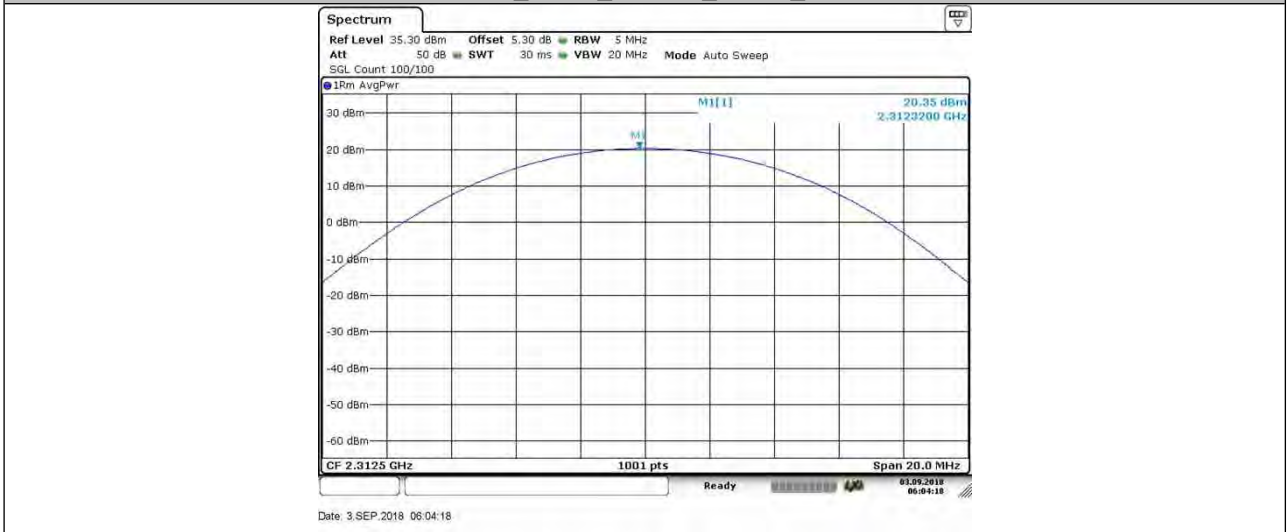


BAND 30_5MHz_16QAM_27710_1RB#0

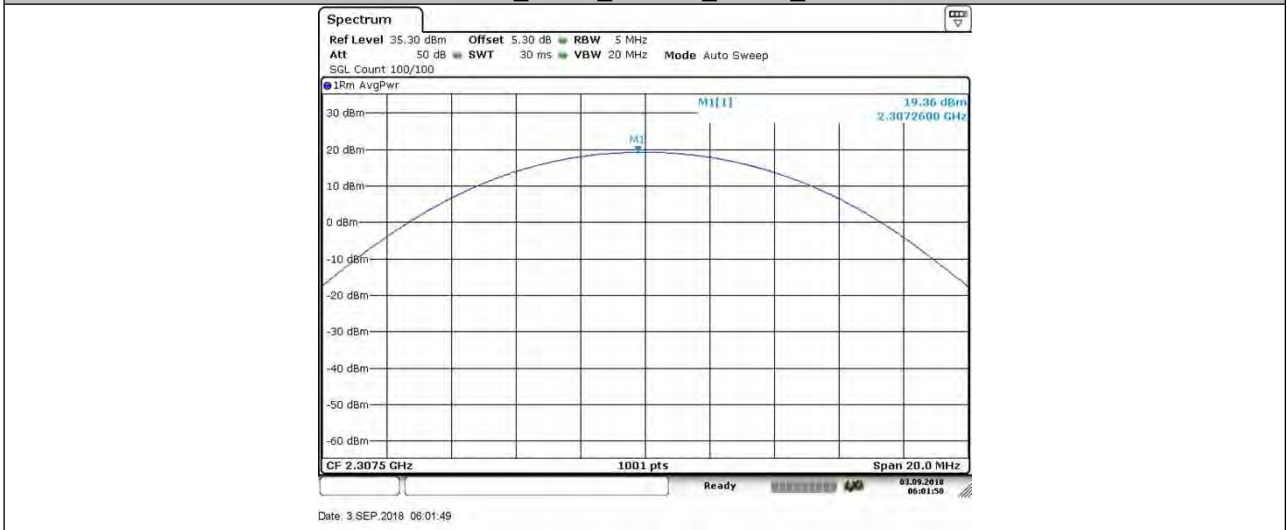
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BAND 30_5MHz_16QAM_27735_1RB#0

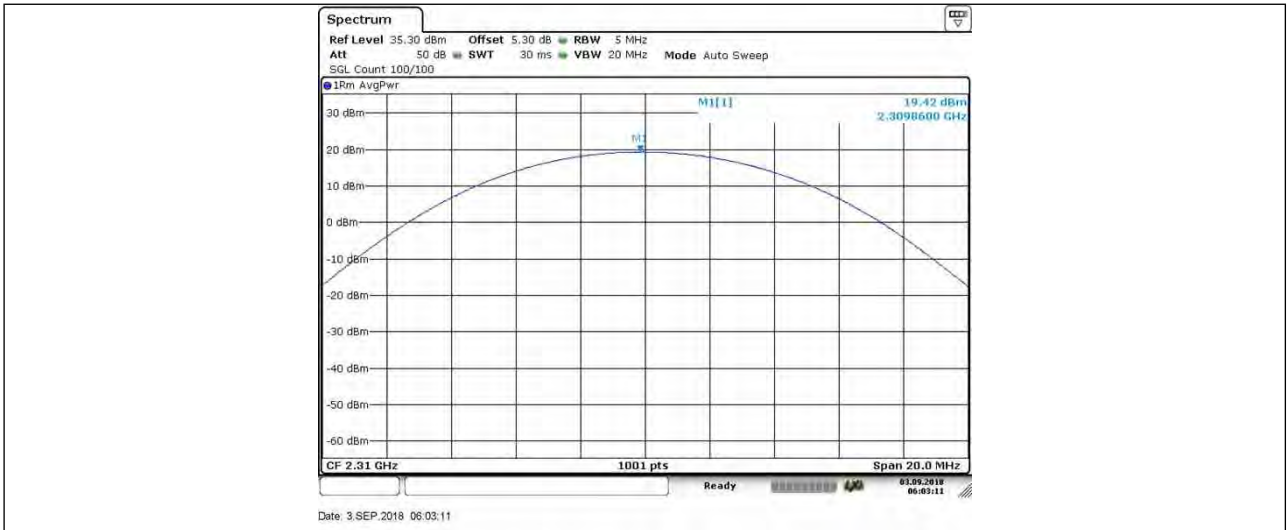


BAND 30_5MHz_64QAM_27685_1RB#0

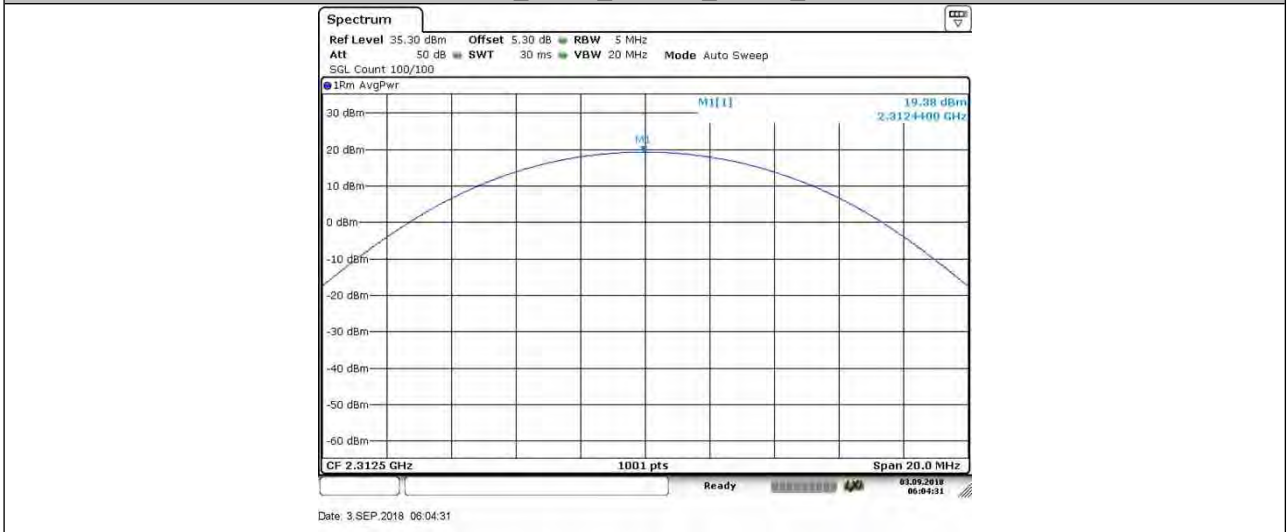


BAND 30_5MHz_64QAM_27710_1RB#0

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BAND 30_5MHz_64QAM_27735_1RB#0



BAND 30_10MHz_QPSK_27710_1RB#0



BAND 30_10MHz_16QAM_27710_1RB#0

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BAND 30_10MHz_64QAM_27710_1RB#0



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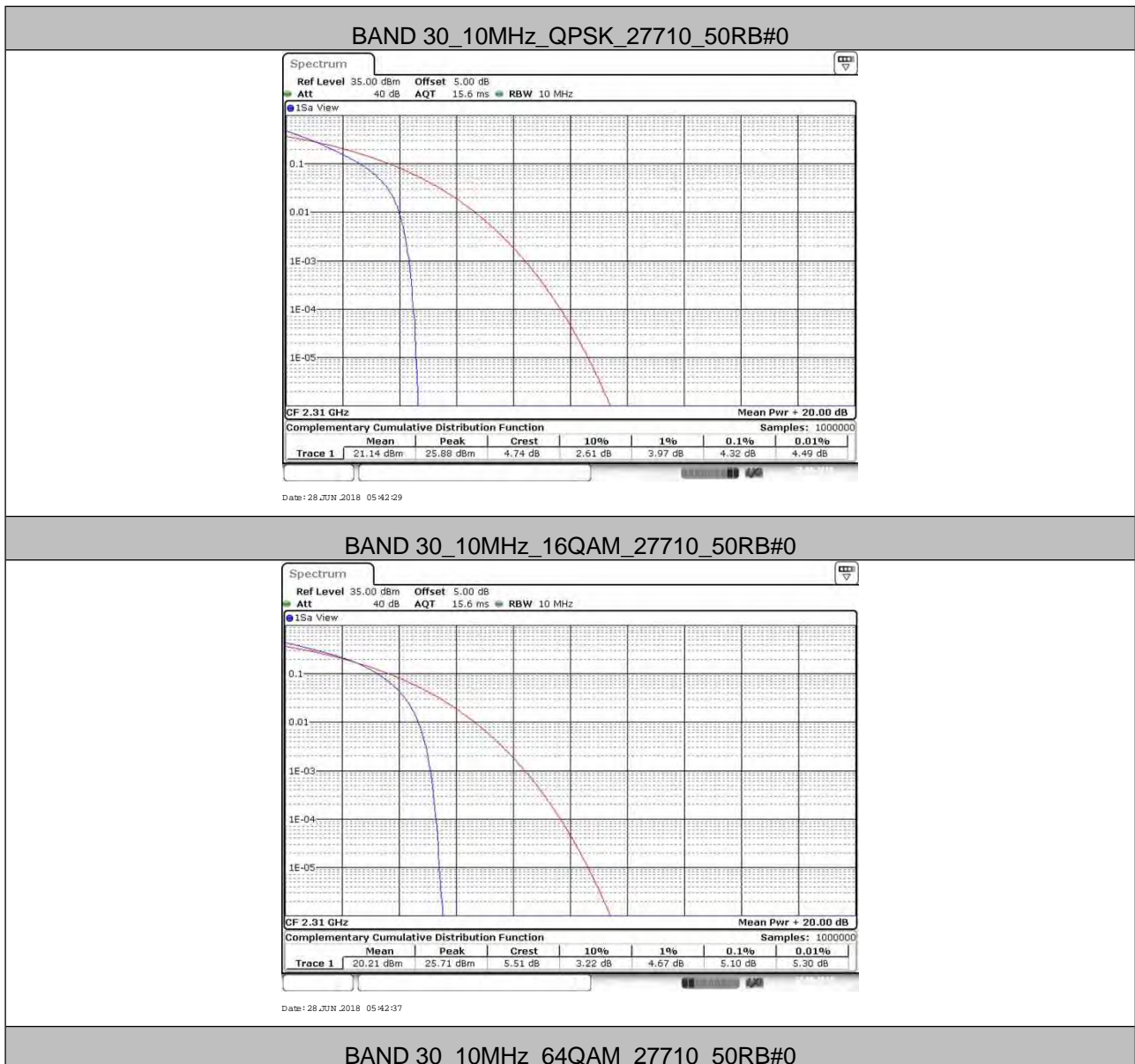


2 Peak-to-Average Ratio

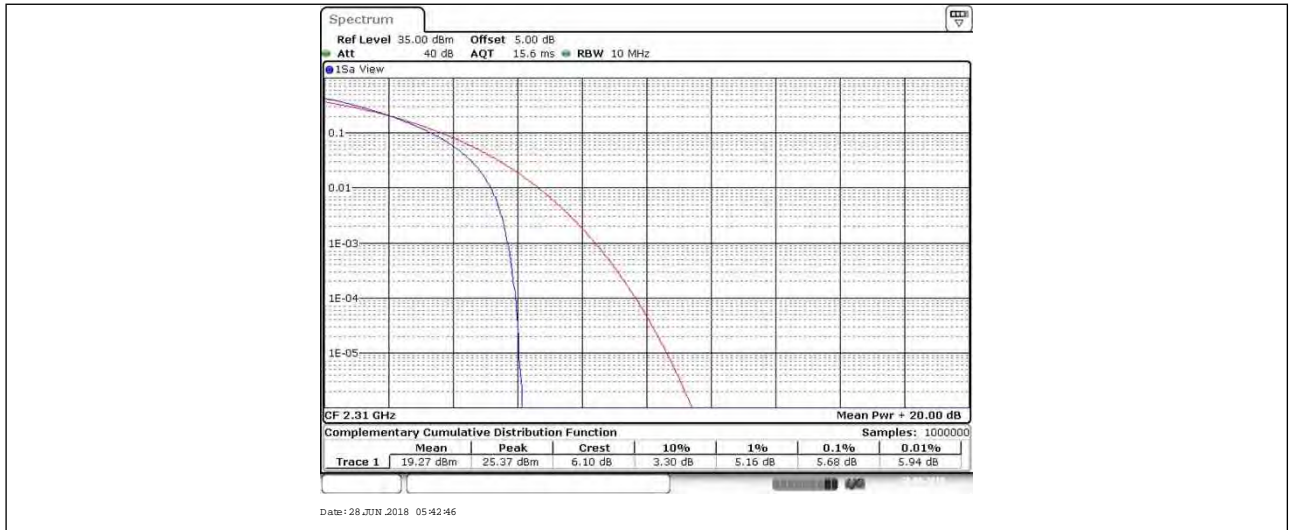
2.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---------|-----------|------------|---------|------------------|------------|-----------|---------|
| BAND 30 | 10MHz | QPSK | 27710 | 50RB#0 | 4.32 | 13 | PASS |
| | | 16QAM | 27710 | 50RB#0 | 5.10 | 13 | PASS |
| | | 64QAM | 27710 | 50RB#0 | 5.68 | 13 | PASS |

2.2. Test Plots



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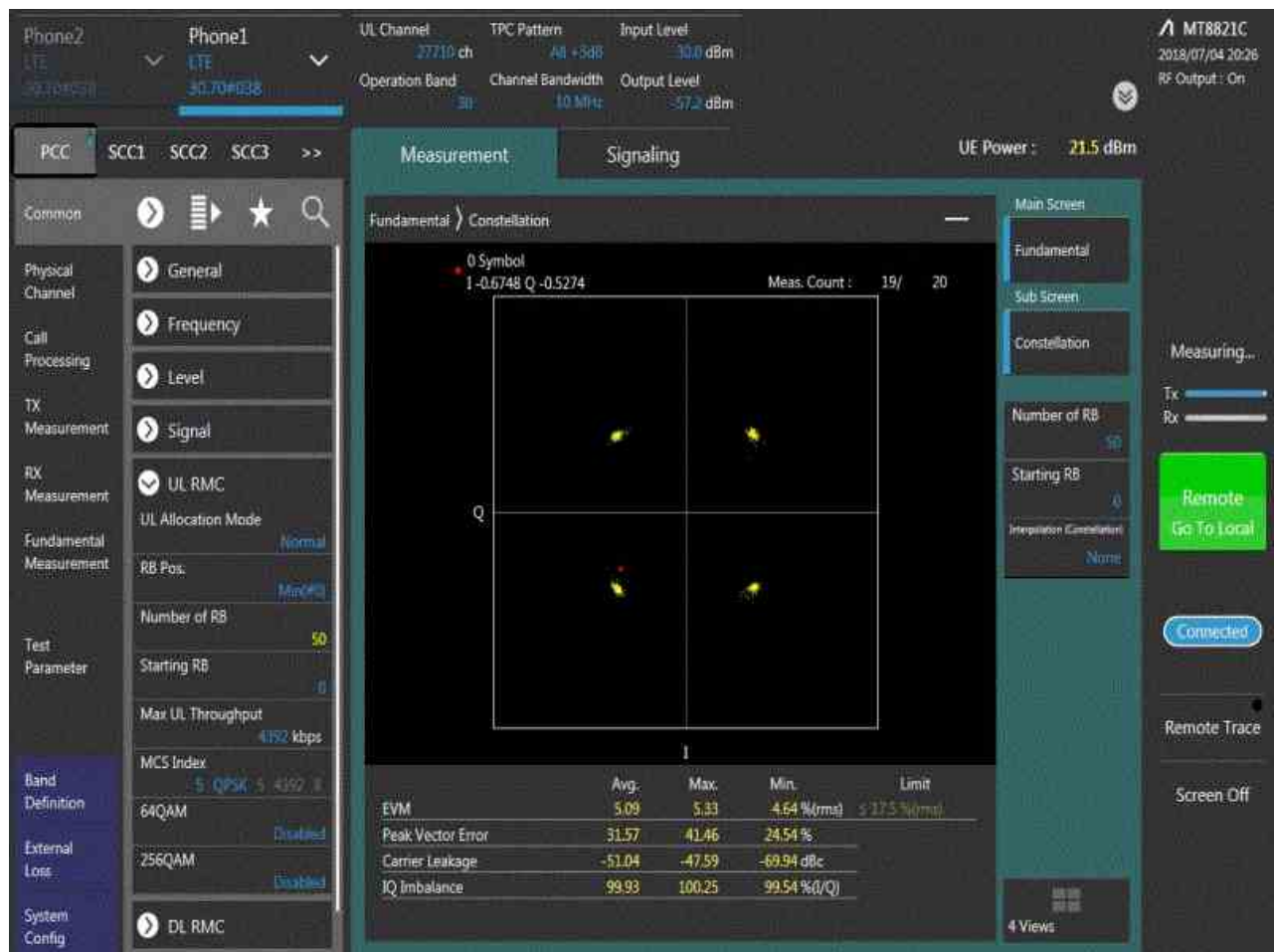
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test BAND = LTE BAND30

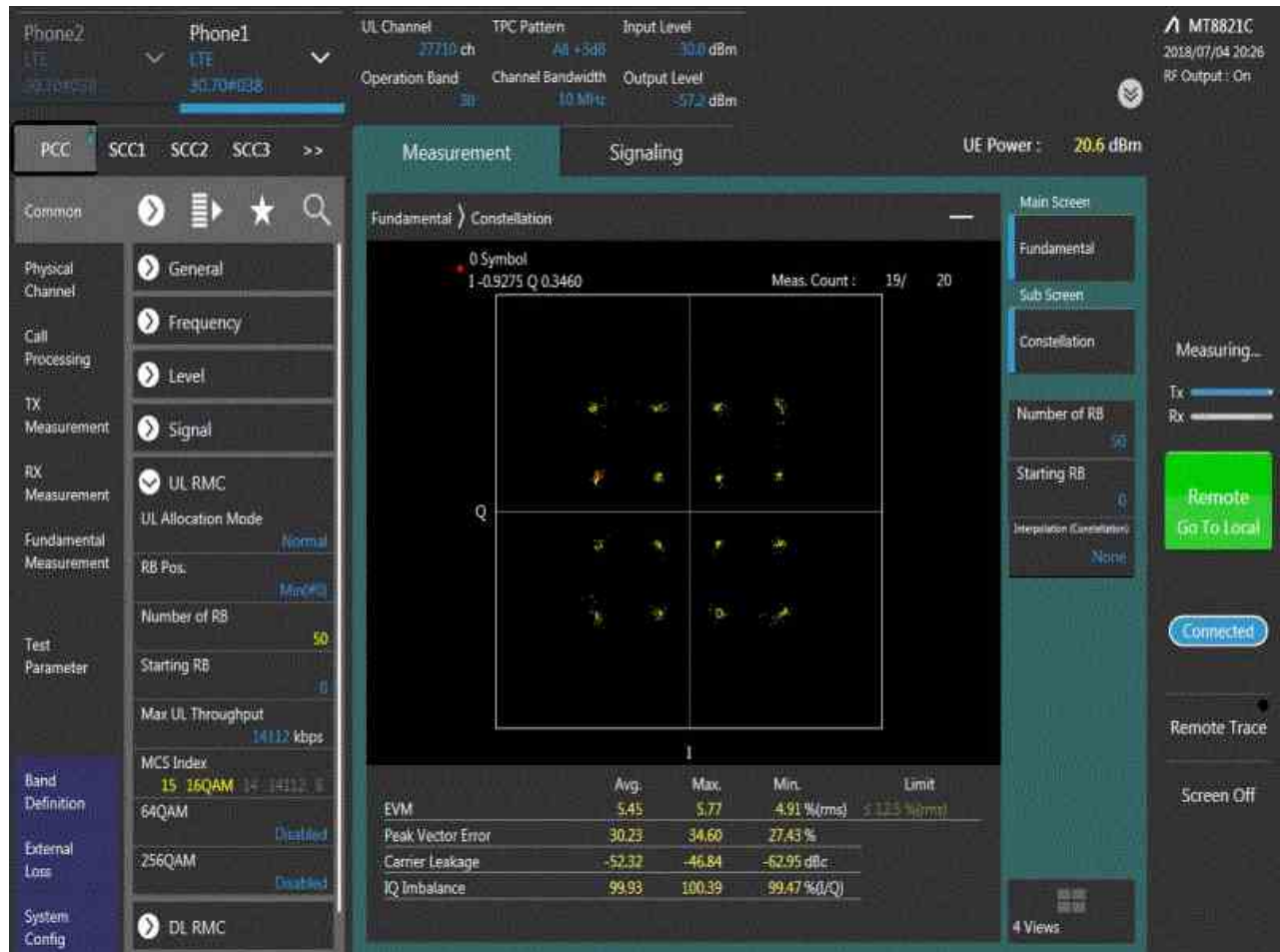
3.1.1.1 Test Mode = LTE /TM1 10MHz

3.1.1.1.1 Test Channel = MCH



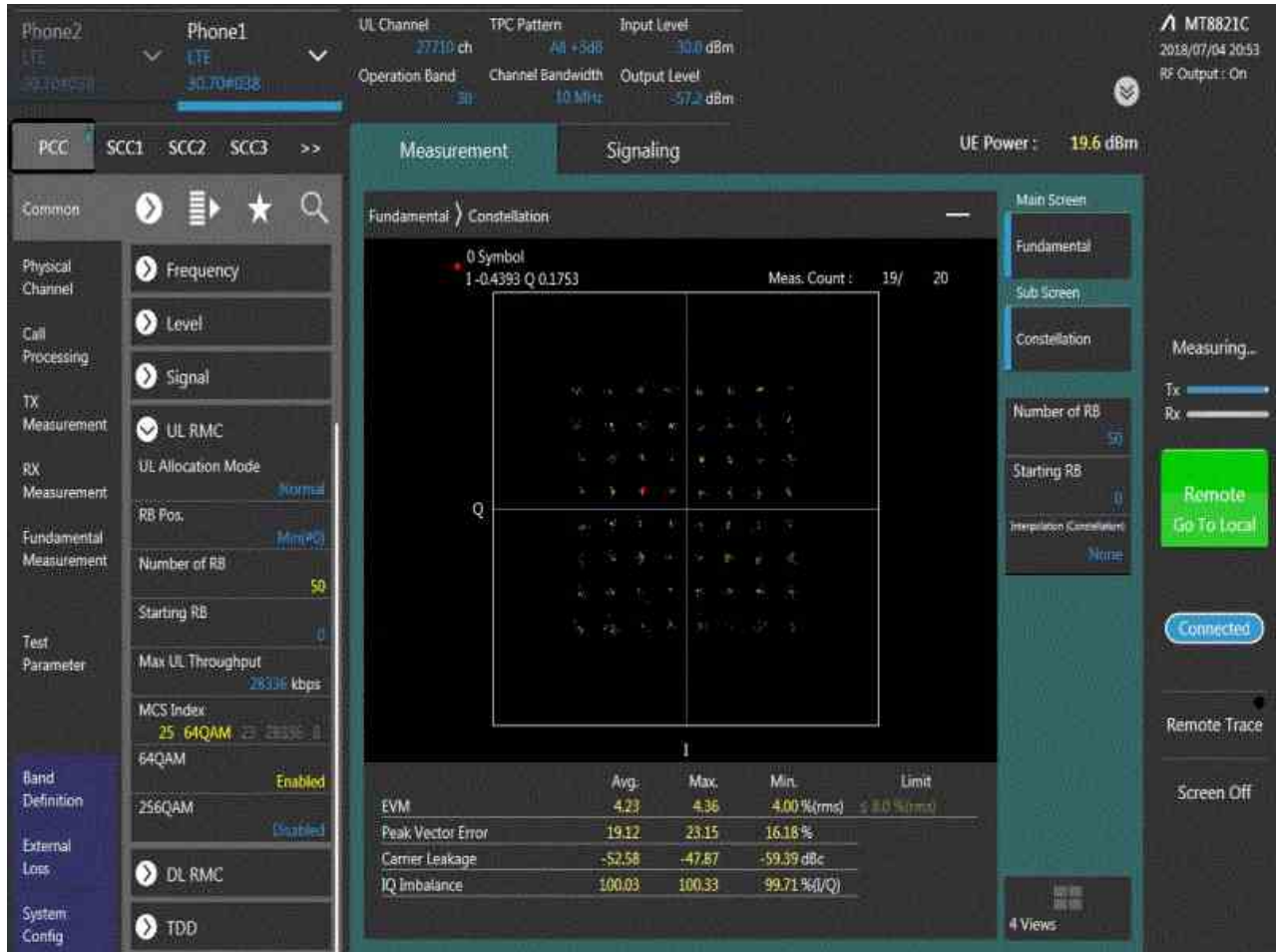
3.1.1.2 Test Mode = LTE /TM2 10MHz

3.1.1.2.1 Test Channel = MCH



3.1.1.3 Test Mode = LTE /TM3 10MHz

3.1.1.3.1 Test Channel = MCH



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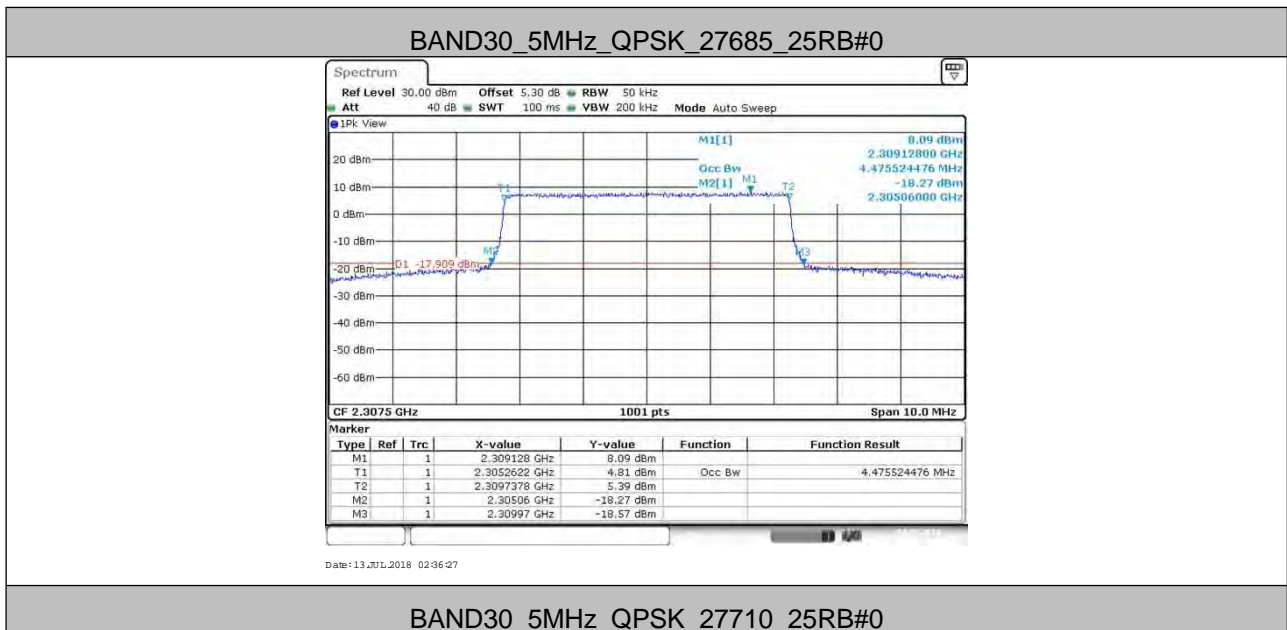


4 26dB Bandwidth and Occupied Bandwidth

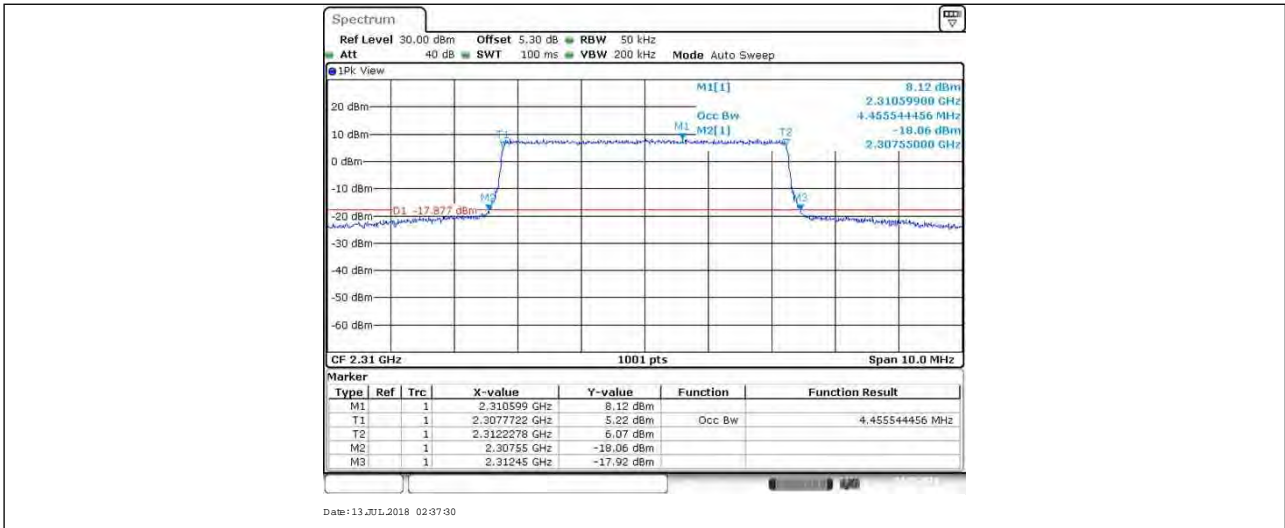
4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| BAND30 | 5MHz | QPSK | 27685 | 25RB#0 | 4.476 | 4.910 | PASS |
| | | | 27710 | 25RB#0 | 4.456 | 4.900 | PASS |
| | | | 27735 | 25RB#0 | 4.466 | 4.860 | PASS |
| | | 64QAM | 27685 | 25RB#0 | 4.476 | 5.090 | PASS |
| | | | 27710 | 25RB#0 | 4.466 | 4.890 | PASS |
| | | | 27735 | 25RB#0 | 4.456 | 4.880 | PASS |
| | | 16QAM | 27685 | 25RB#0 | 4.476 | 5.070 | PASS |
| | | | 27710 | 25RB#0 | 4.476 | 4.930 | PASS |
| | | | 27735 | 25RB#0 | 4.466 | 4.920 | PASS |
| | 10MHz | QPSK | 27710 | 50RB#0 | 8.931 | 10.380 | PASS |
| | | 64QAM | 27710 | 50RB#0 | 8.951 | 10.300 | PASS |
| | | 16QAM | 27710 | 50RB#0 | 8.951 | 10.600 | PASS |

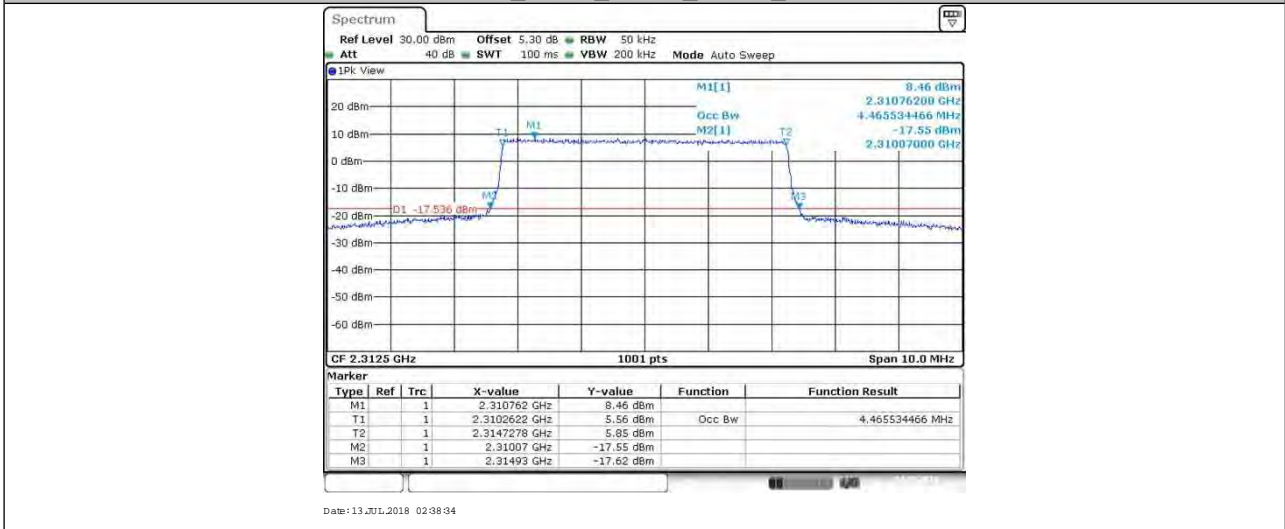
4.2. Test Plots



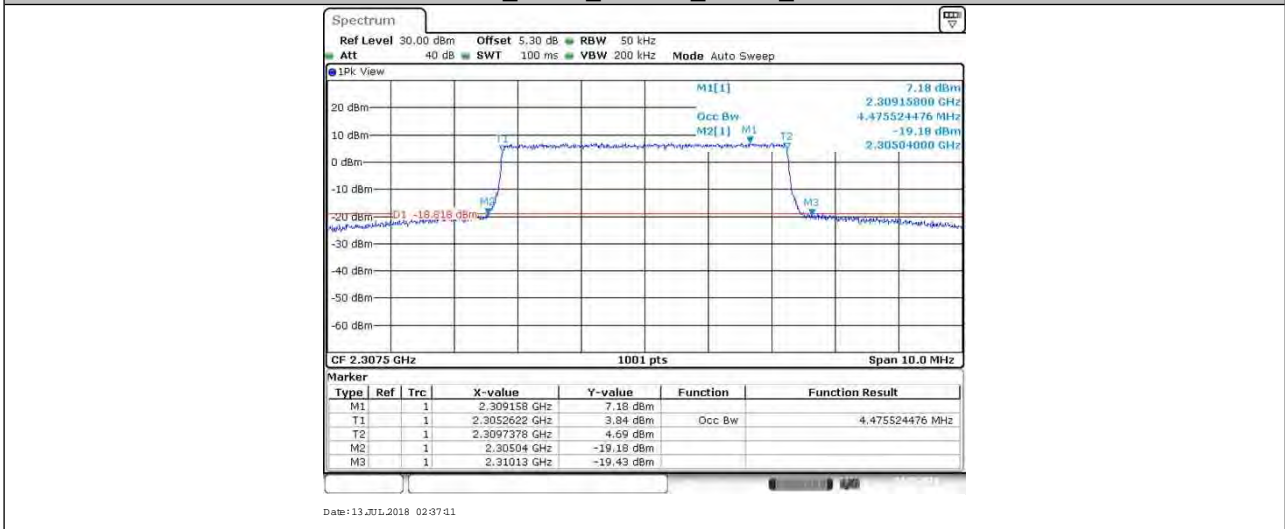
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BAND30_5MHz_QPSK_27735_25RB#0

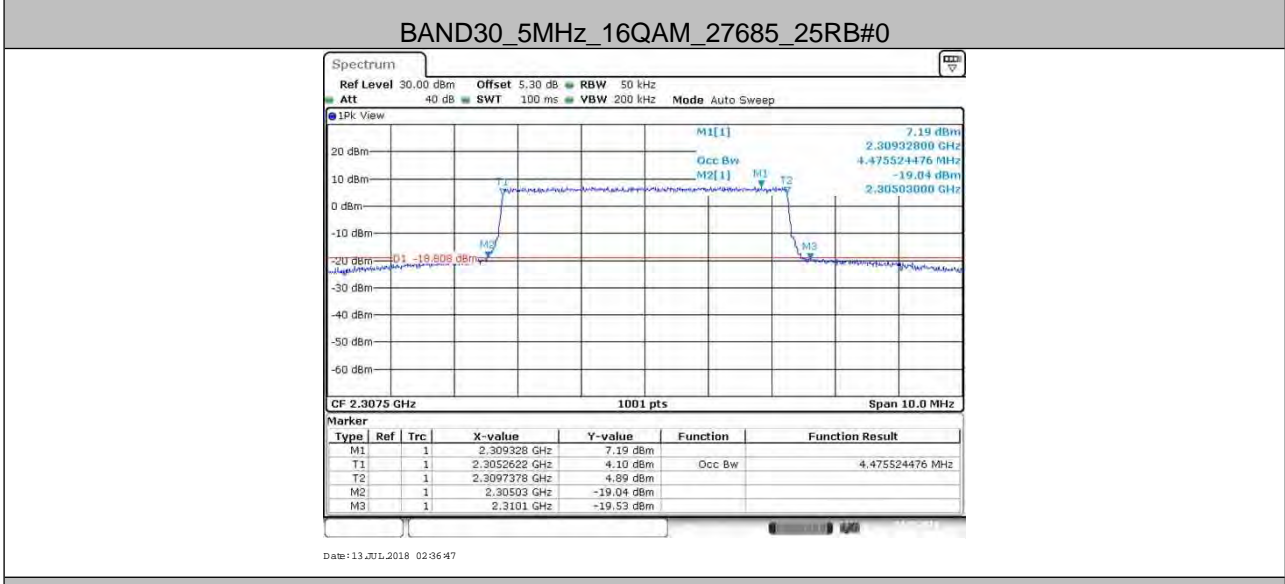
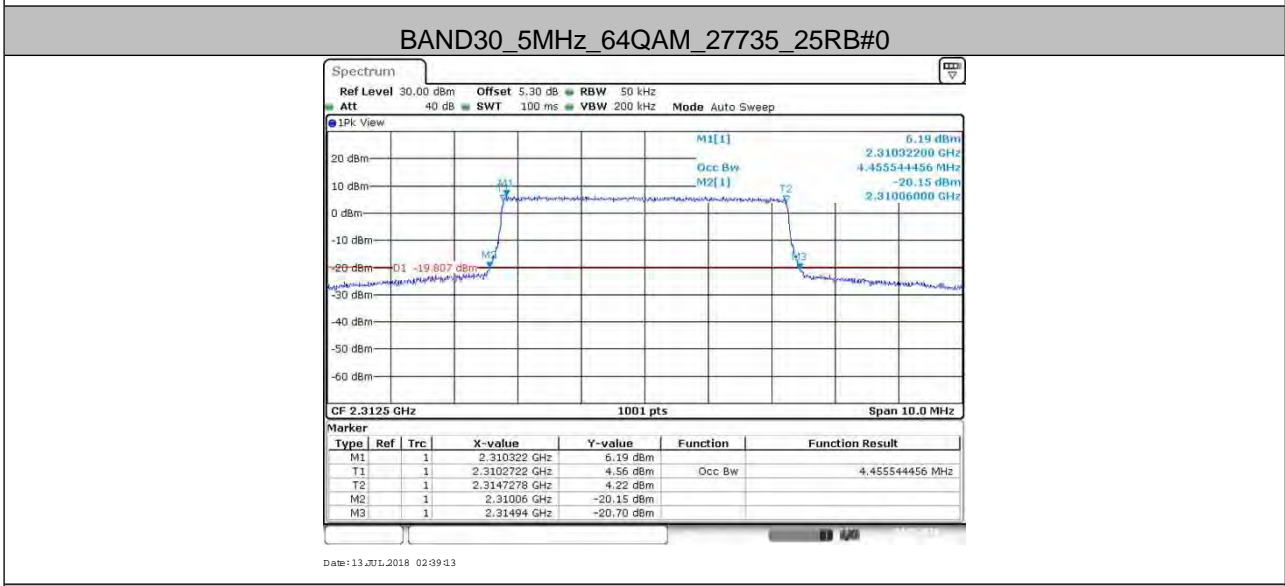
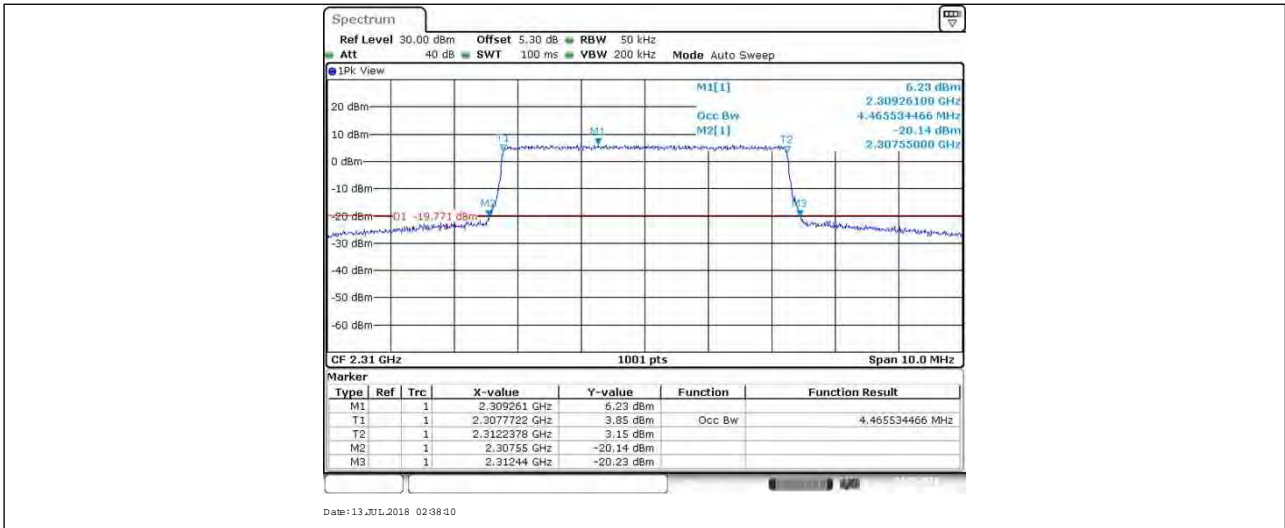


BAND30_5MHz_64QAM_27685_25RB#0



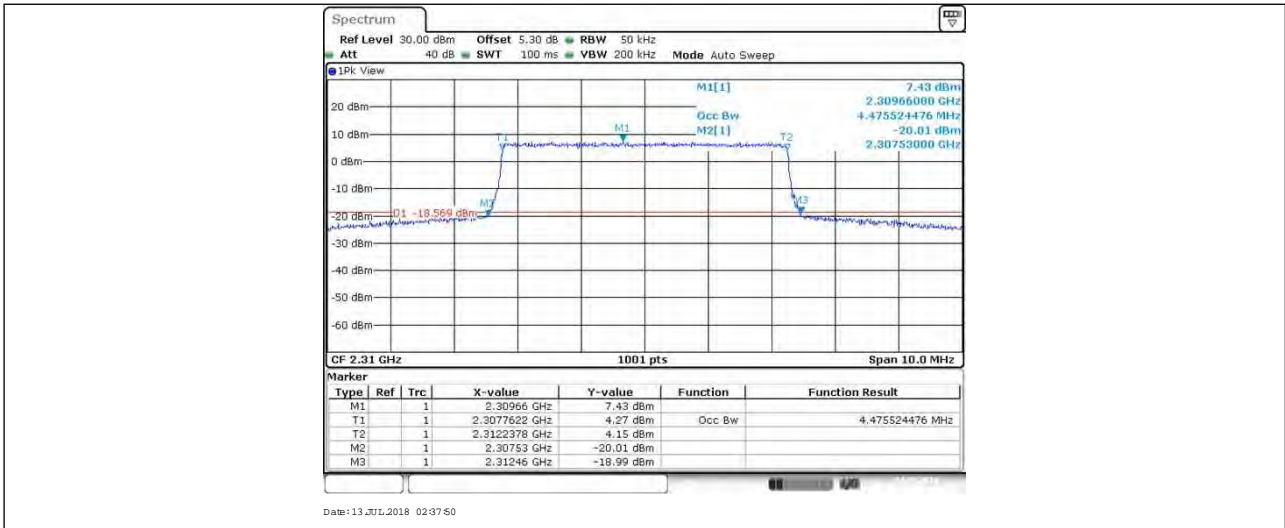
BAND30_5MHz_64QAM_27710_25RB#0

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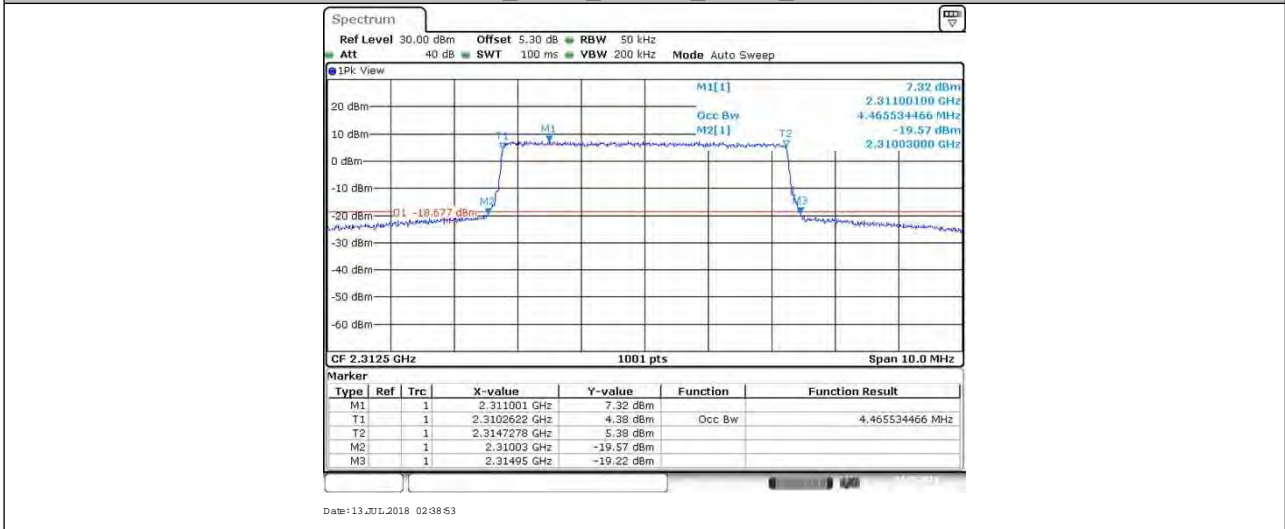


BAND30_5MHz_16QAM_27710_25RB#0

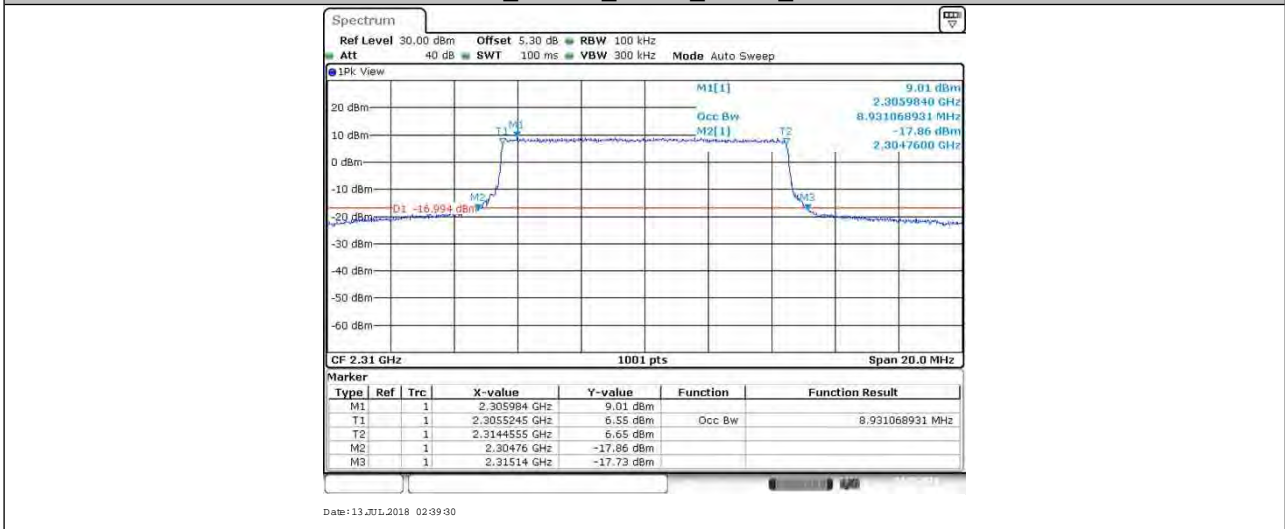
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BAND30_5MHz_16QAM_27735_25RB#0

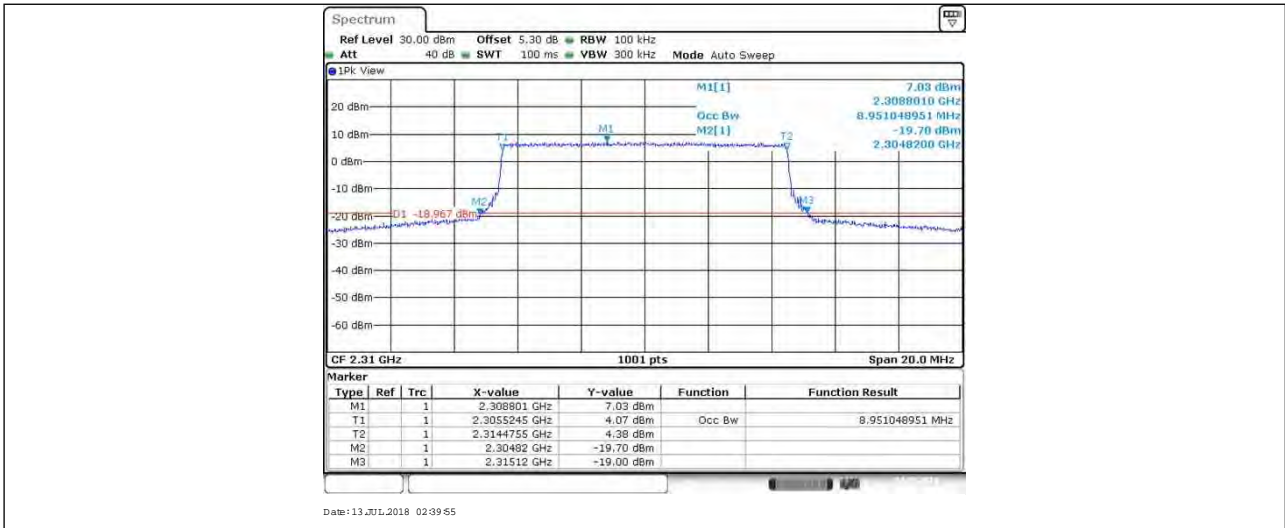


BAND30_10MHz_QPSK_27710_50RB#0

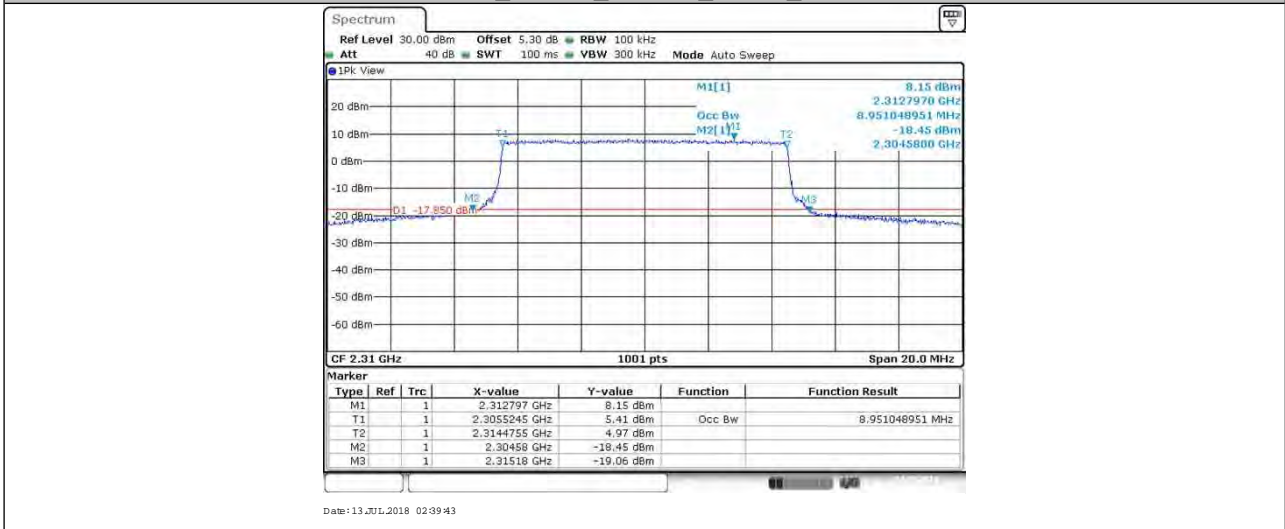


BAND30_10MHz_64QAM_27710_50RB#0

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BAND30_10MHz_16QAM_27710_50RB#0

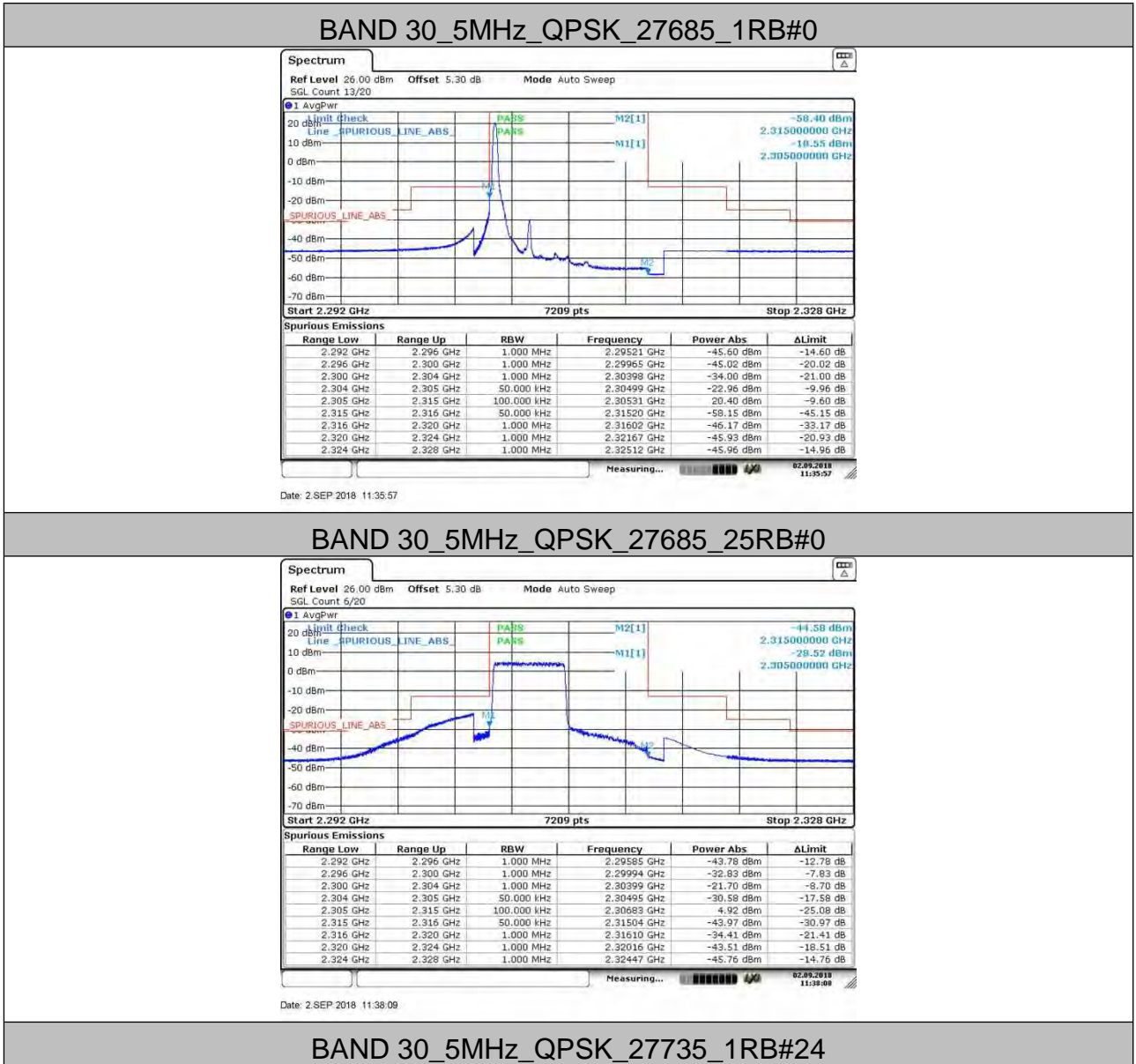


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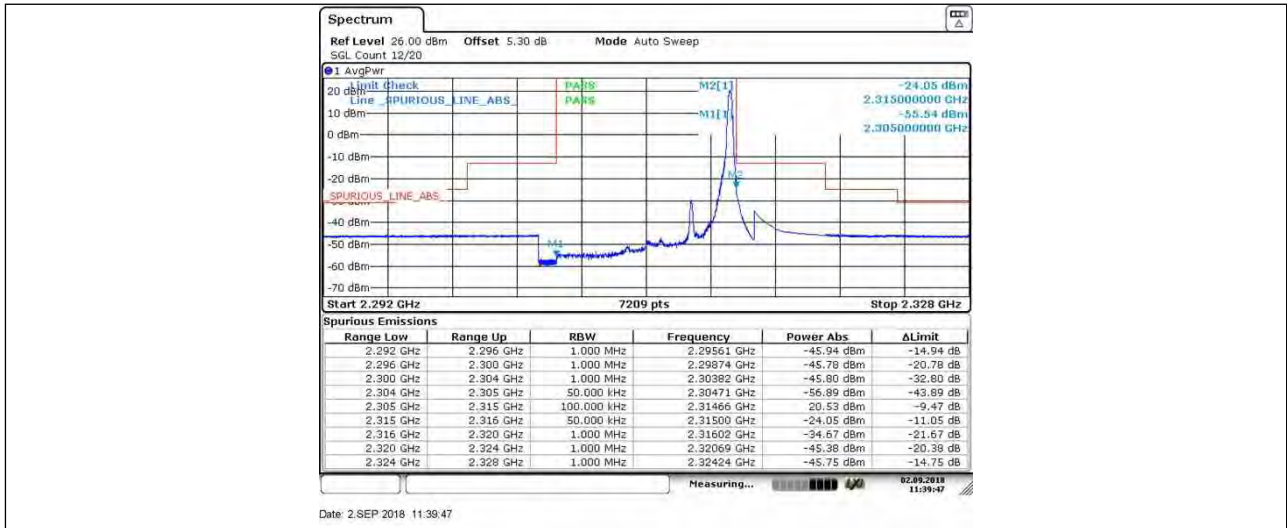


5 Band Edges Compliance

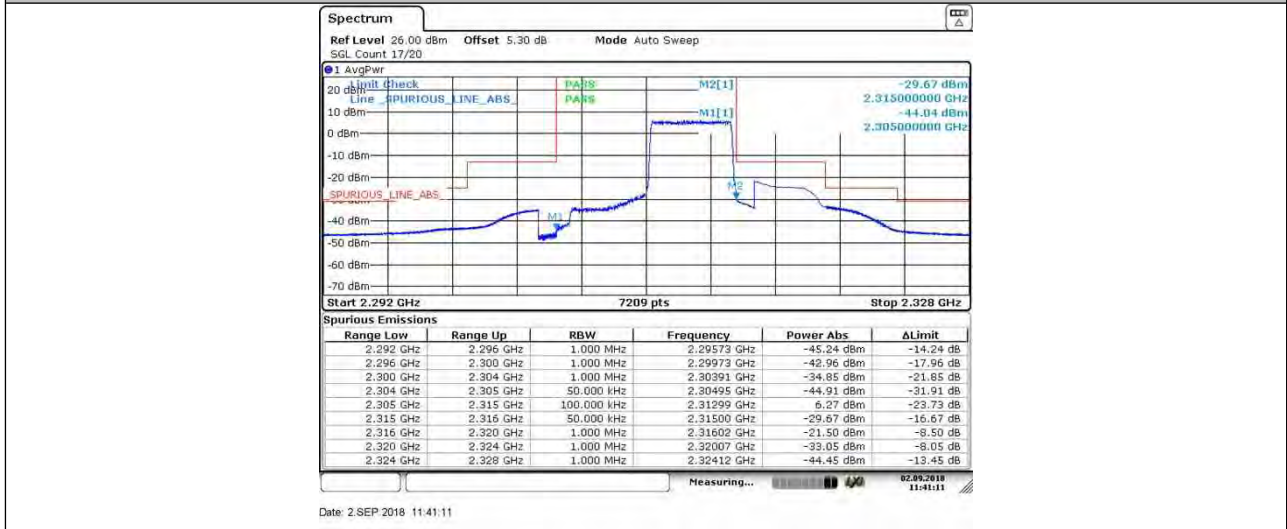
5.1. Test Plots



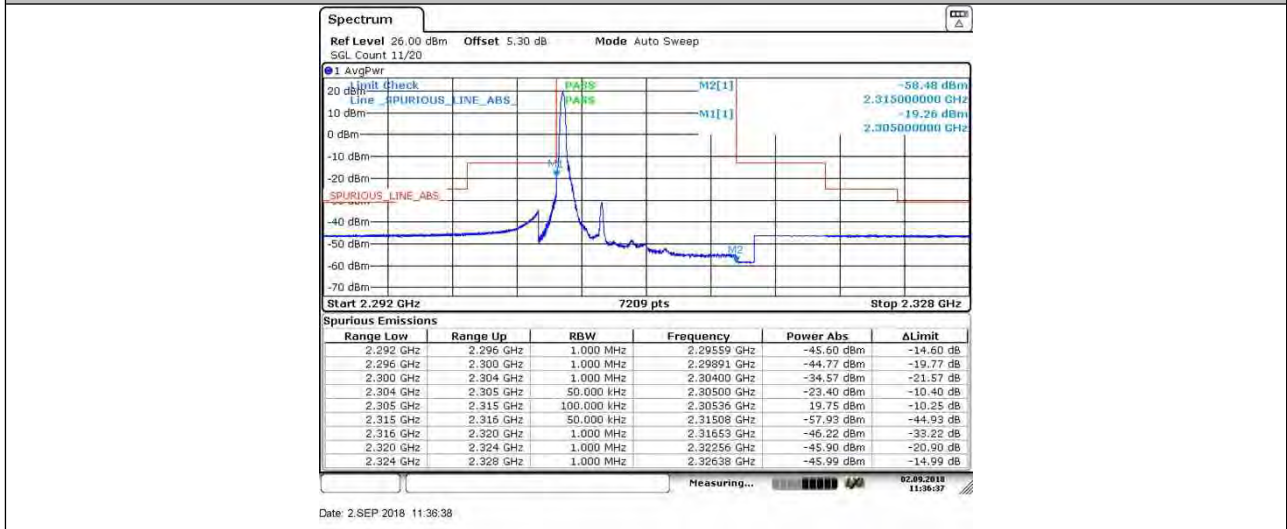
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BAND 30_5MHz_QPSK_27735_25RB#0

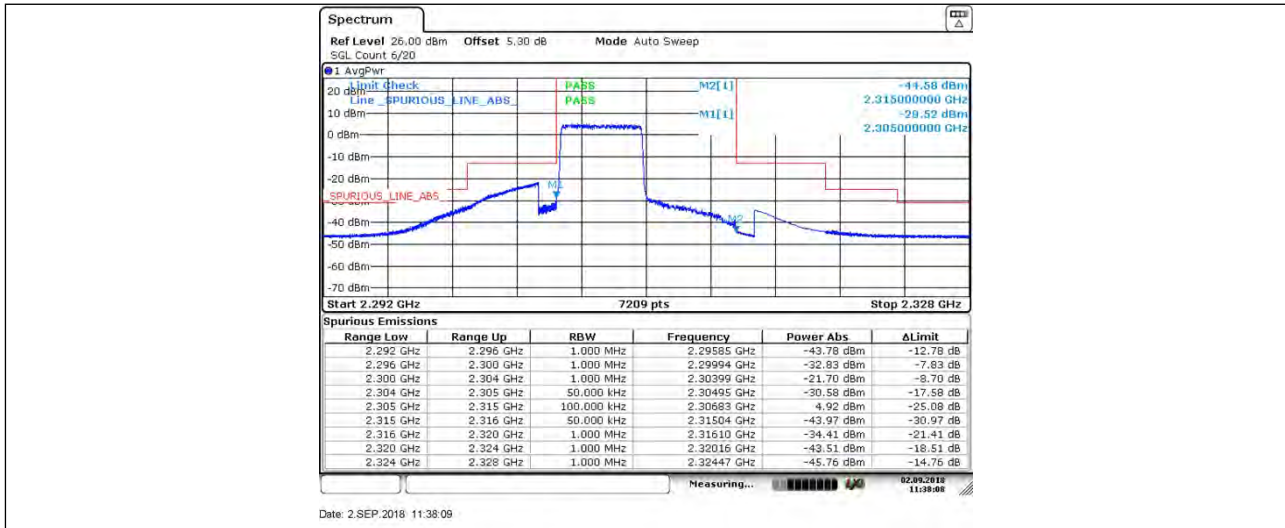


BAND 30_5MHz_16QAM_27685_1RB#0

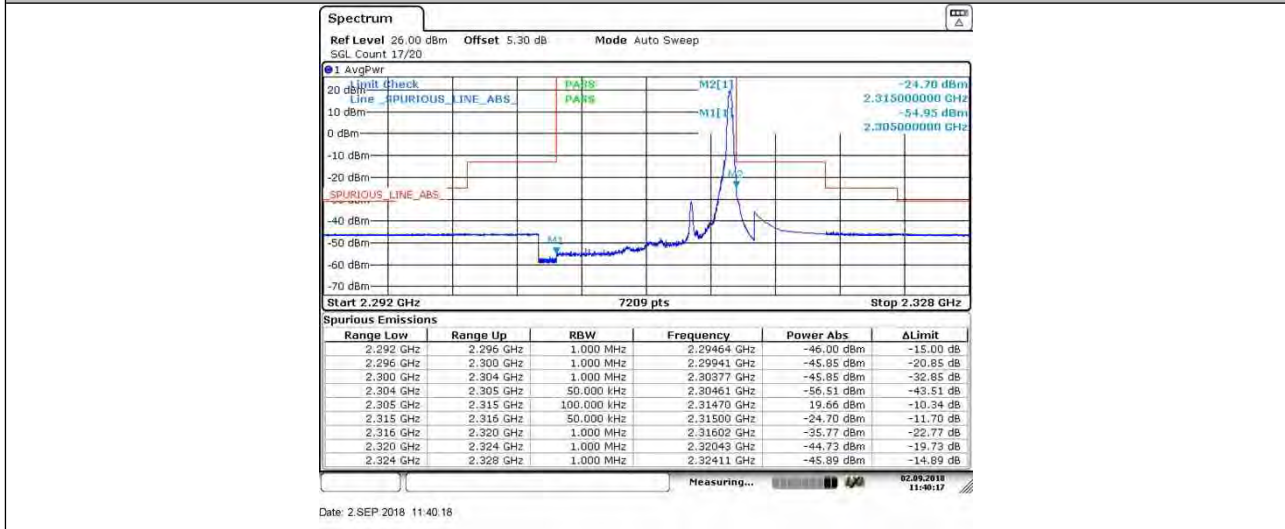


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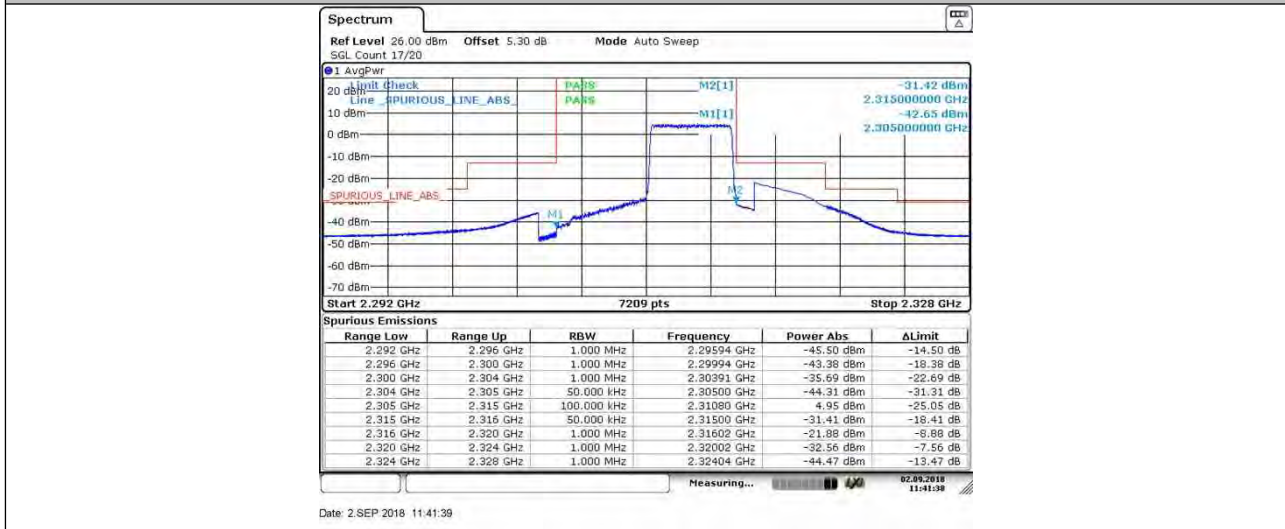
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BAND 30_5MHz_16QAM_27735_1RB#24

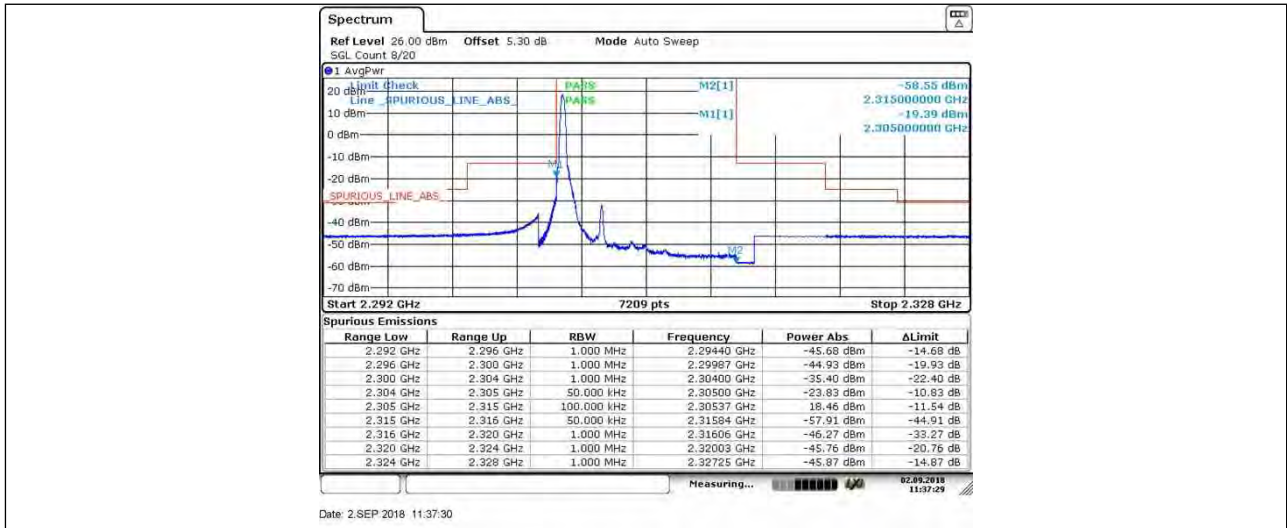


BAND 30_5MHz_16QAM_27735_25RB#0



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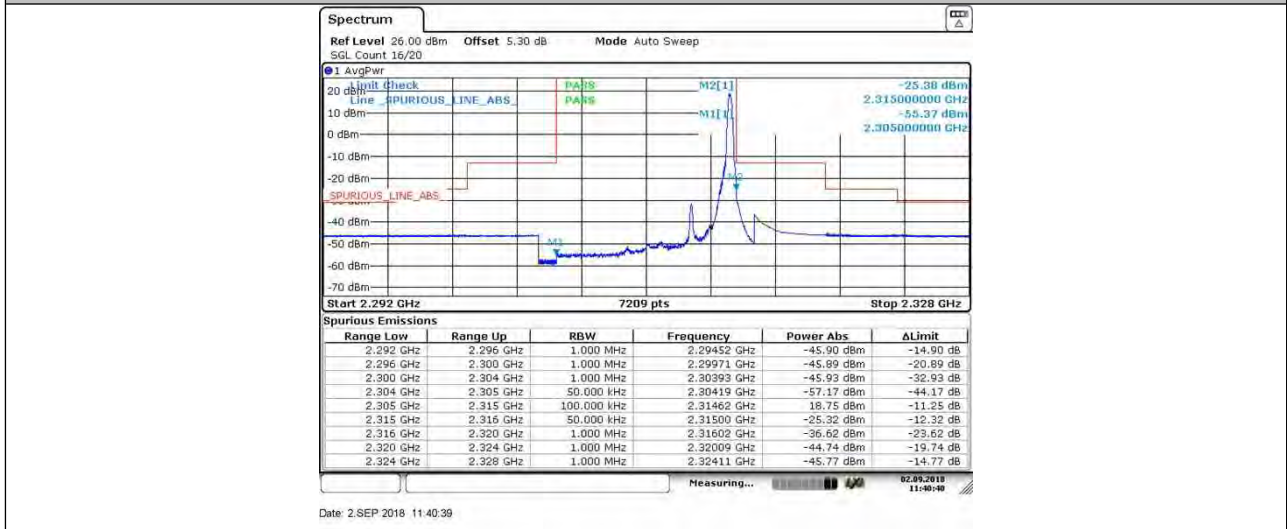
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BAND 30_5MHz_64QAM_27685_25RB#0

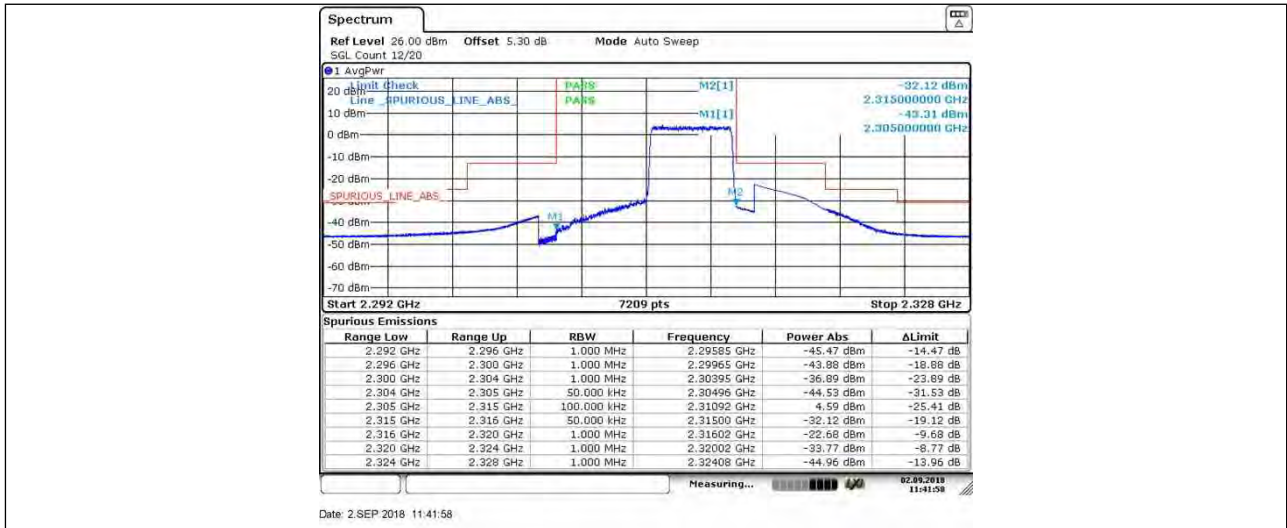


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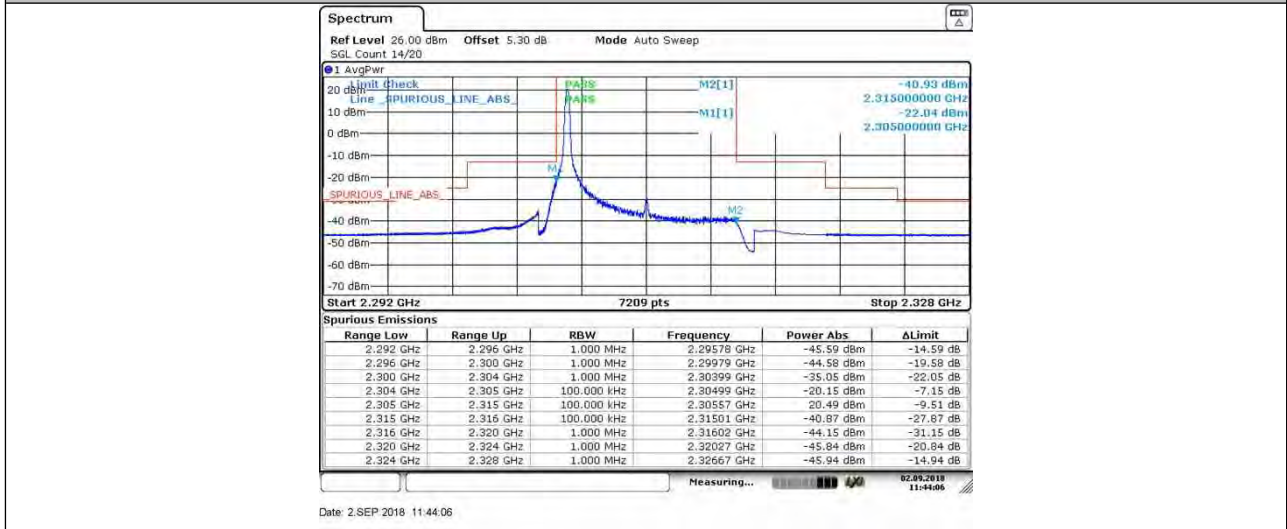


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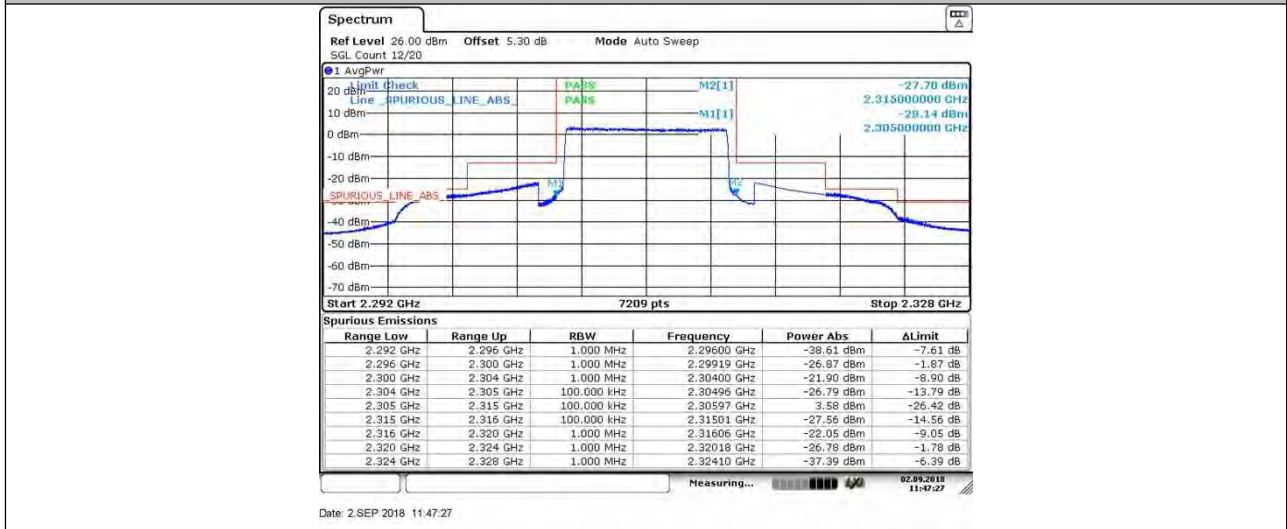
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BAND 30_10MHz_QPSK_27710_1RB#0

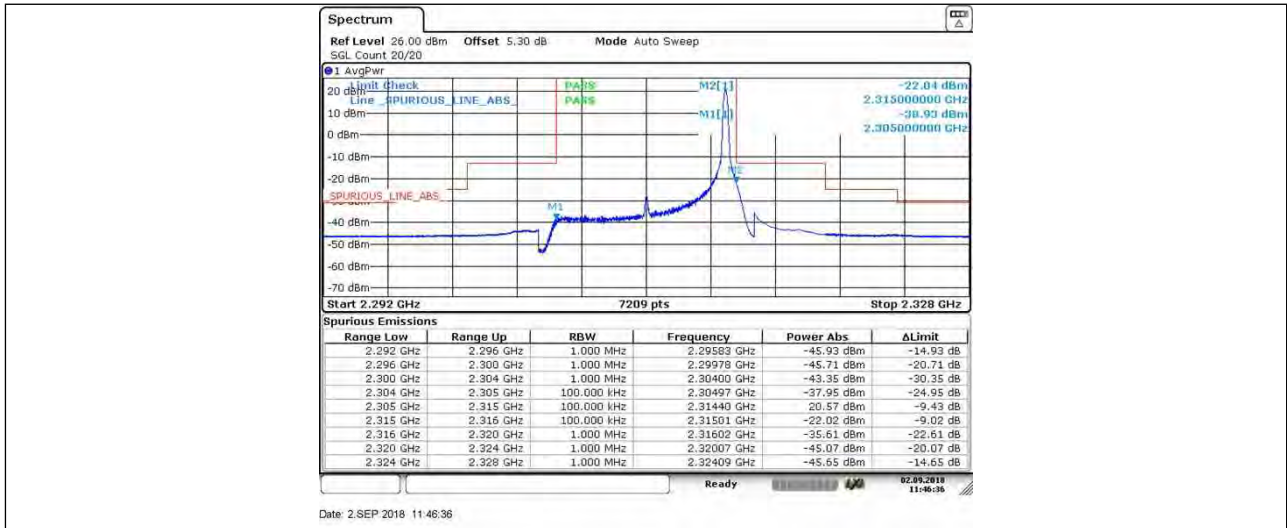


BAND 30_10MHz_QPSK_27710_50RB#0

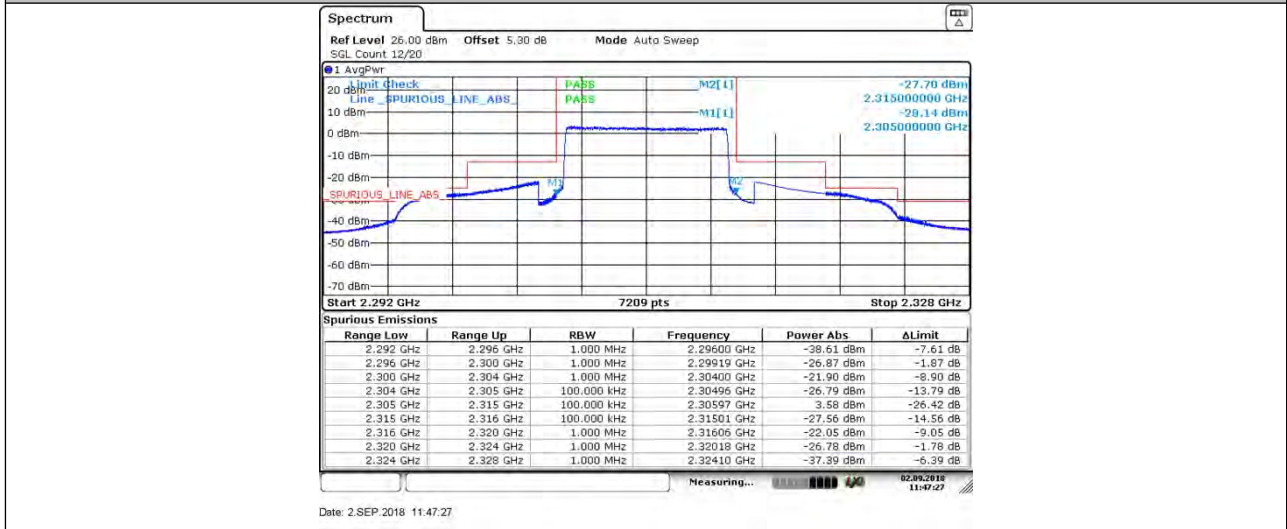


BAND 30_10MHz_QPSK_27710_1RB#49

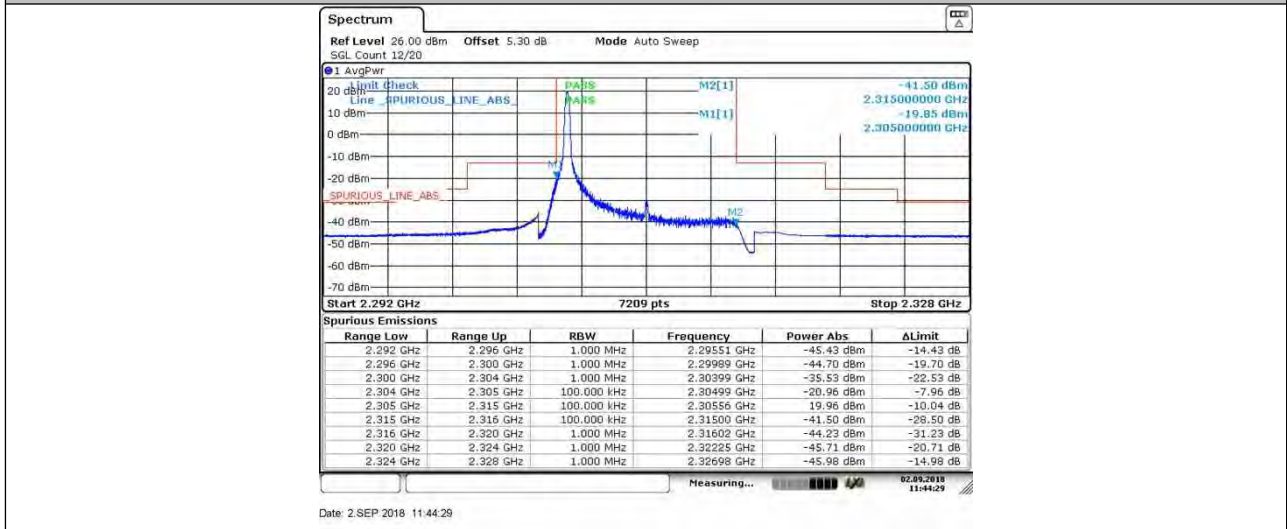
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BAND 30_10MHz_QPSK_27710_50RB#0

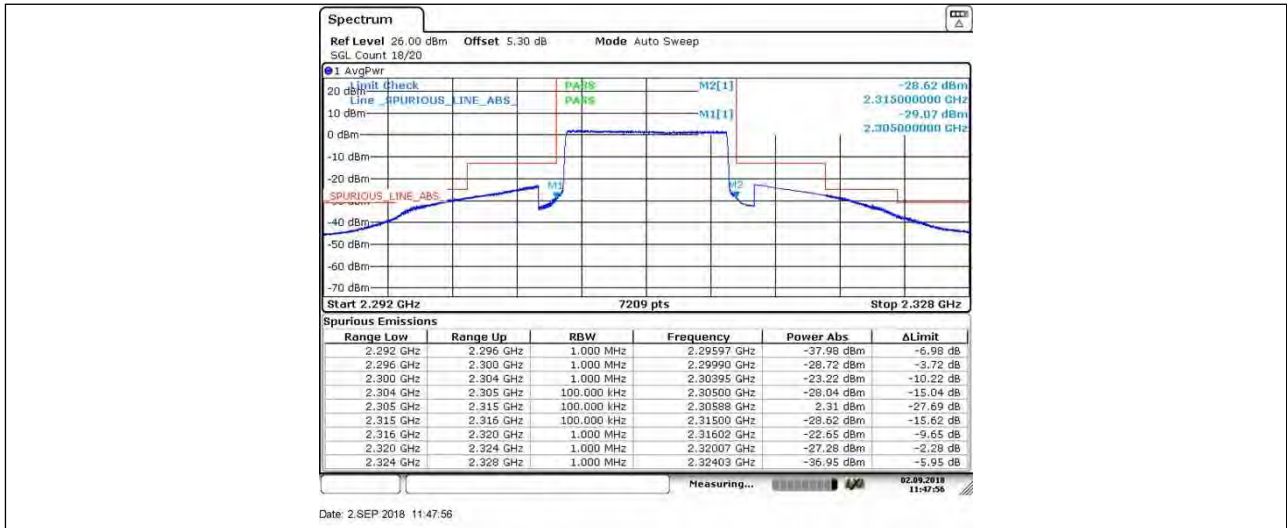


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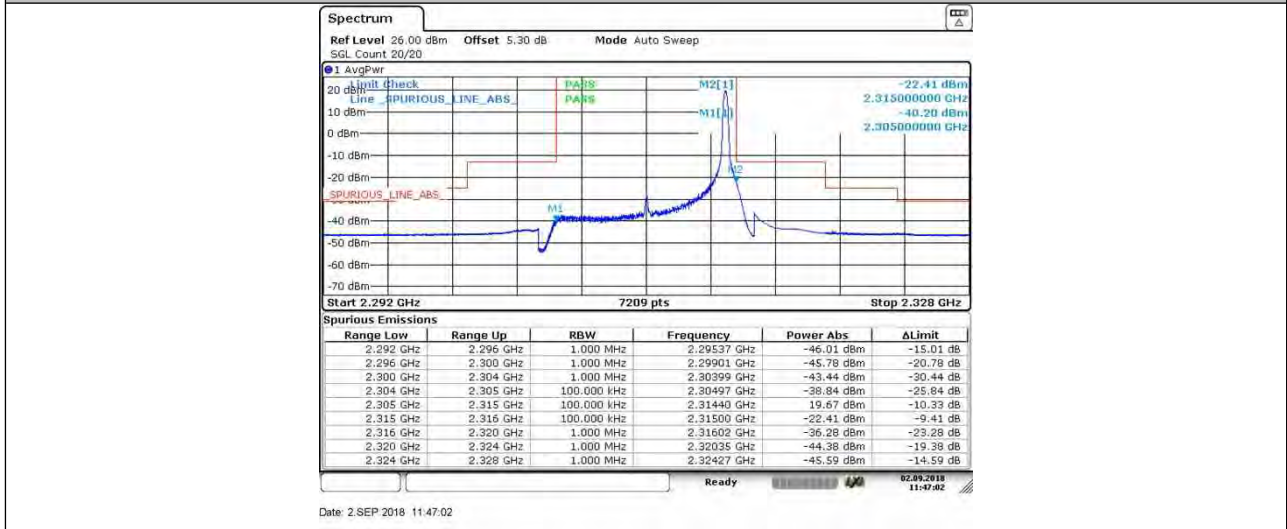


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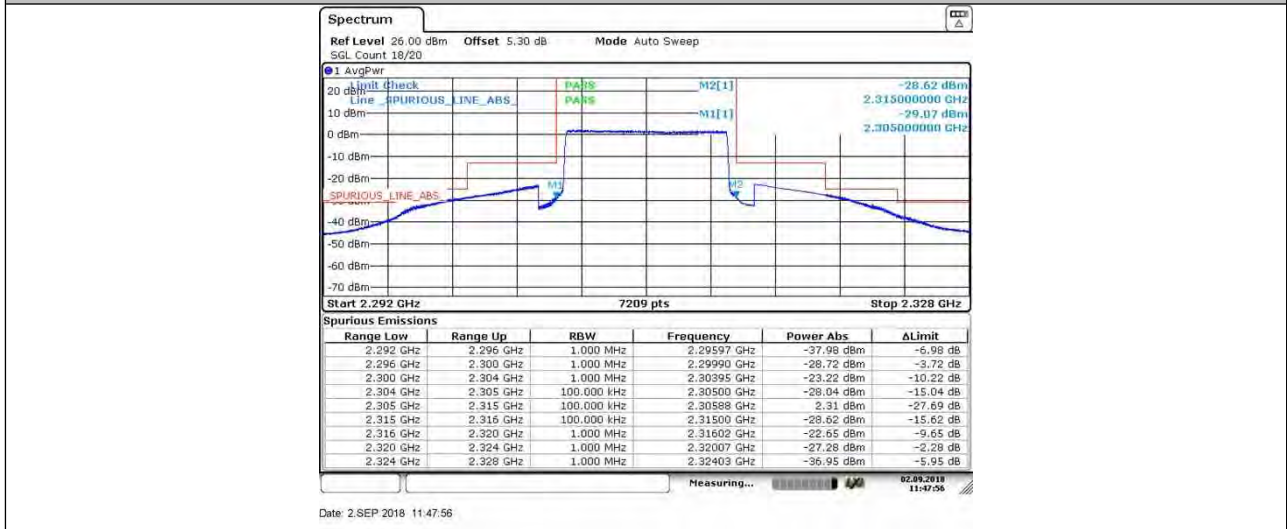
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BAND 30_10MHz_16QAM_27710_1RB#49

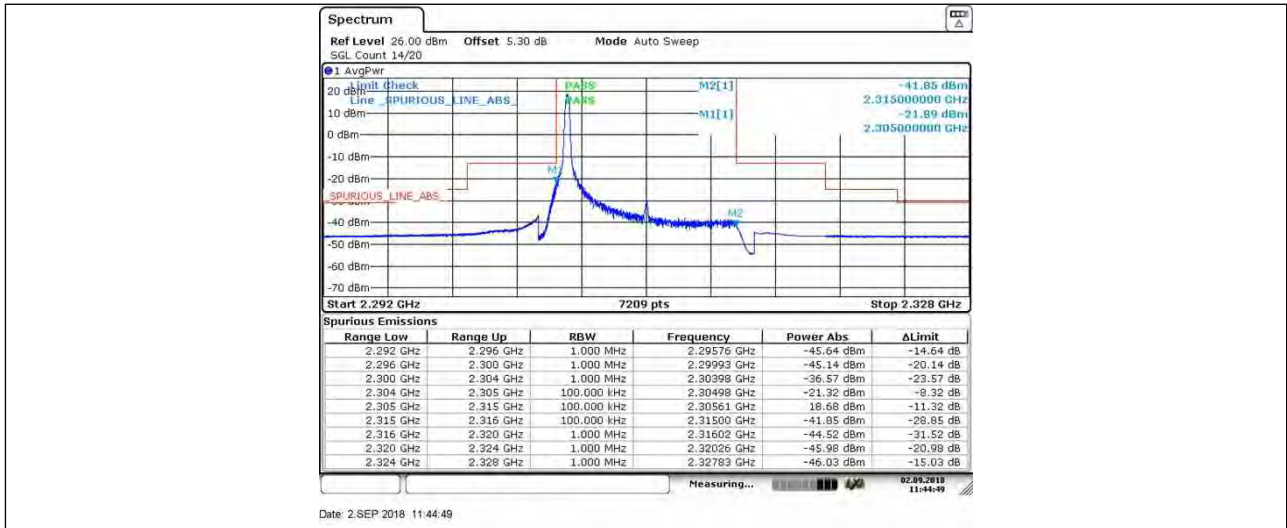


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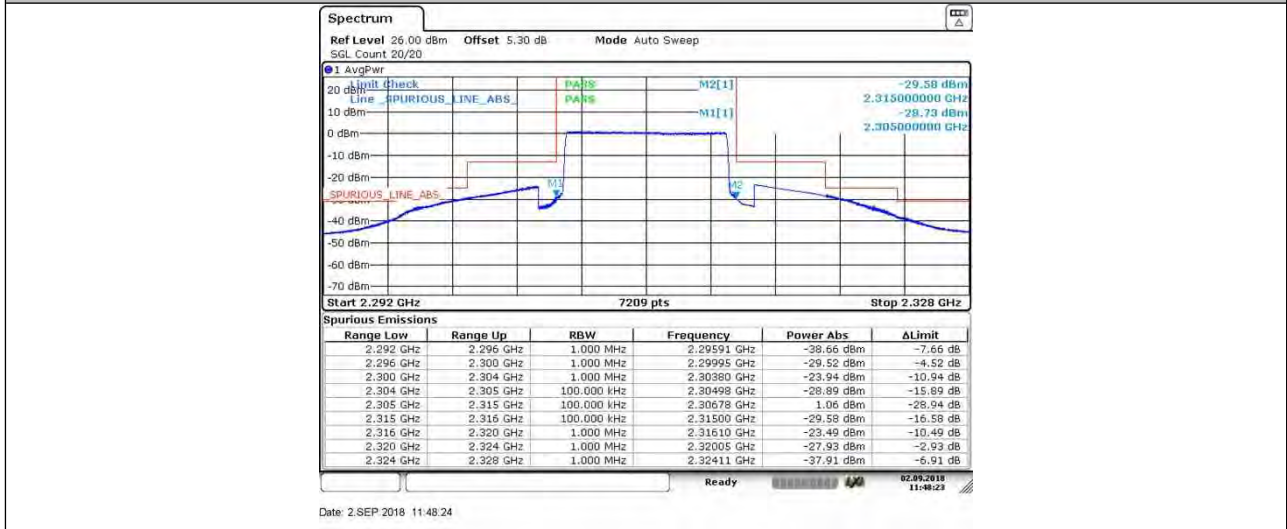


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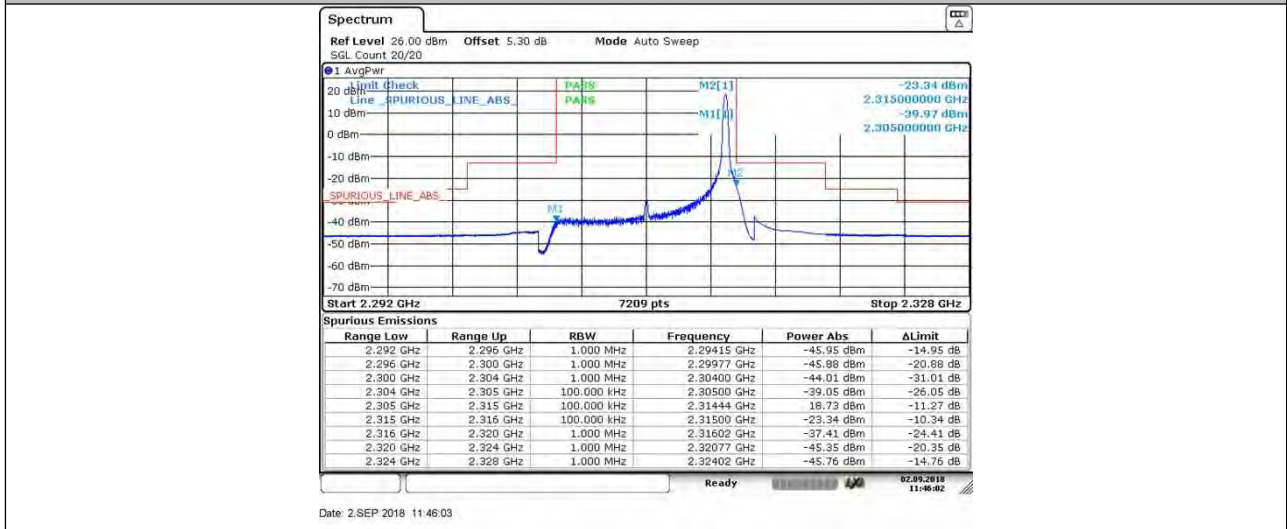
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BAND 30_10MHz_64QAM_27710_50RB#0

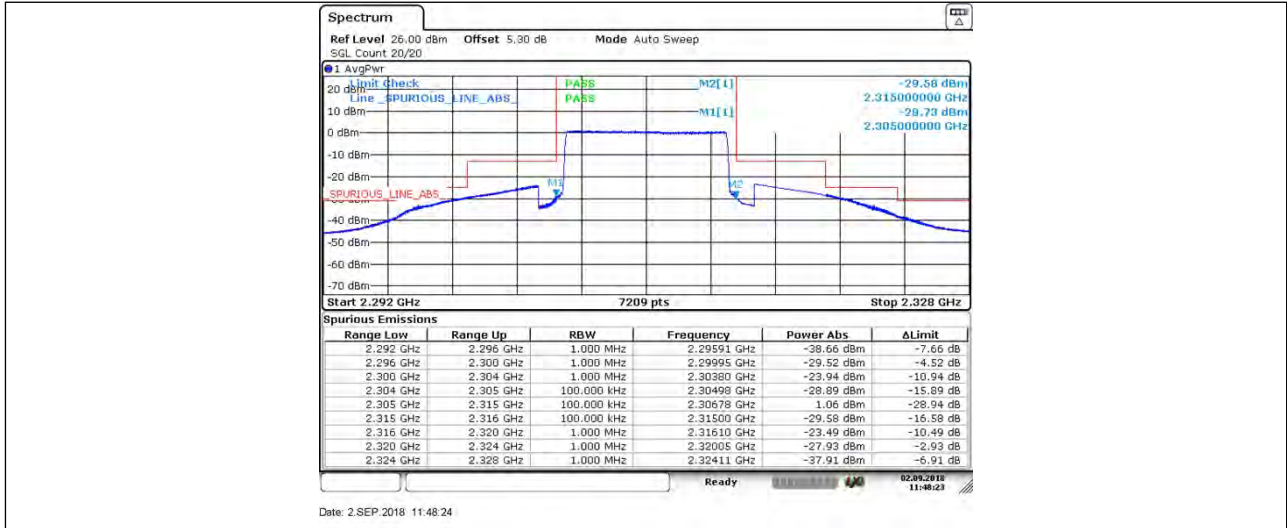


BAND 30_10MHz_64QAM_27710_1RB#49



BAND 30_10MHz_64QAM_27710_50RB#0

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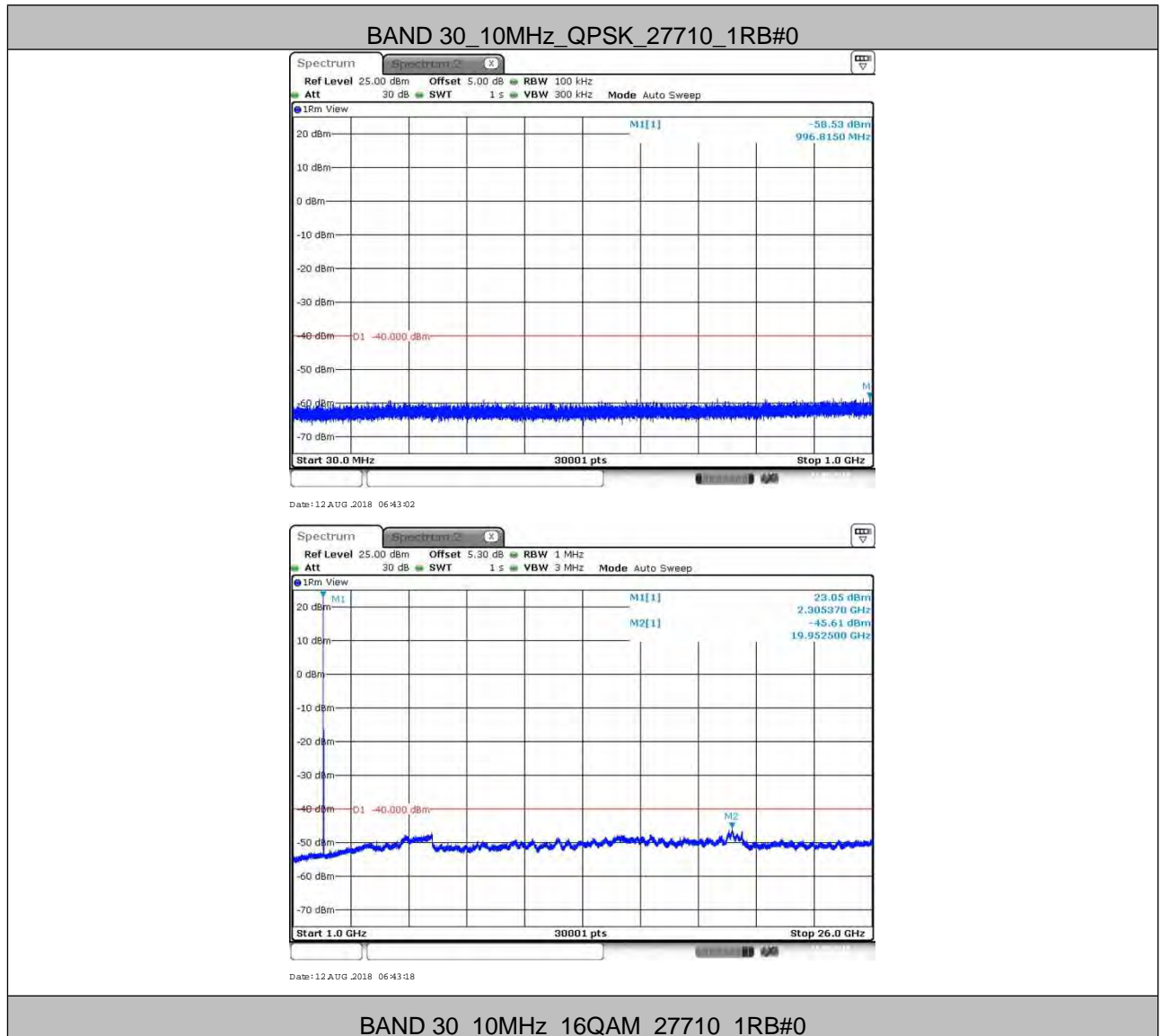


6 Spurious Emission at Antenna Terminal

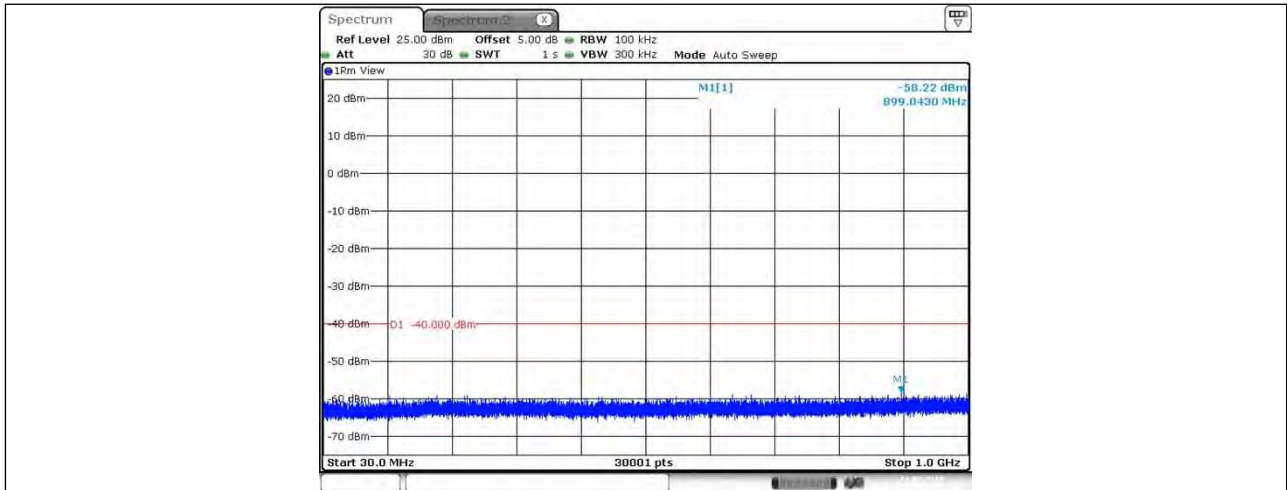
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

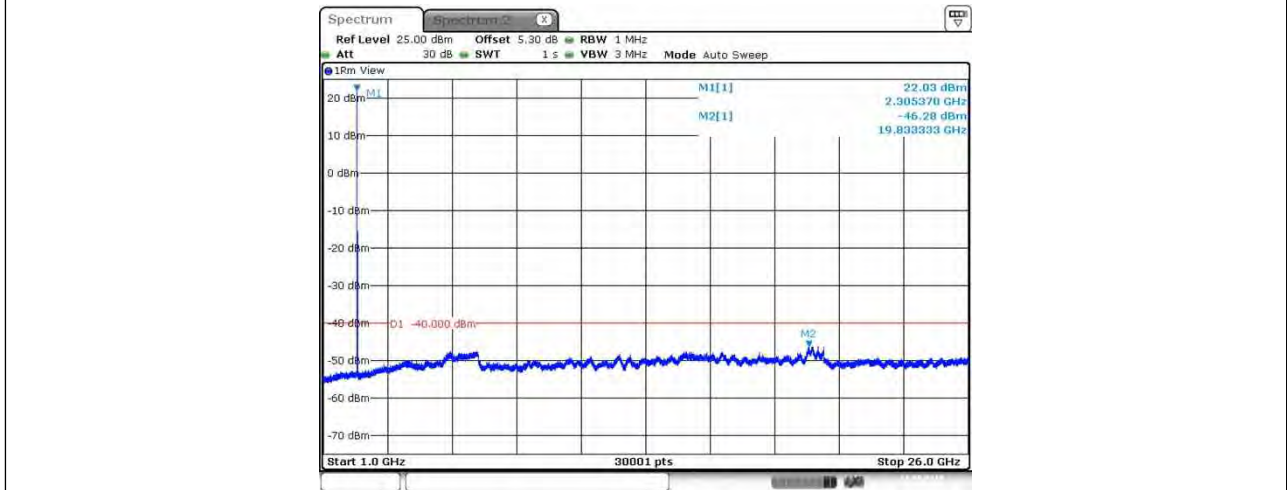
6.1. Test Plots



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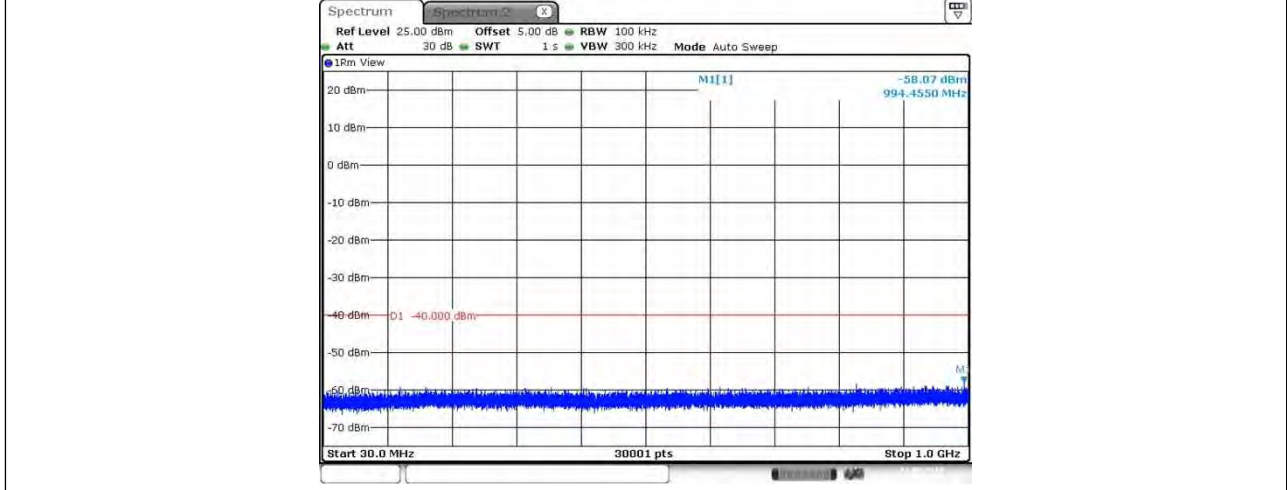


Date: 12 AUG 2018 06:43:35



Date: 12 AUG 2018 06:43:51

BAND 30_10MHz_64QAM_27710_1RB#0



Date: 12 AUG 2018 06:52:38

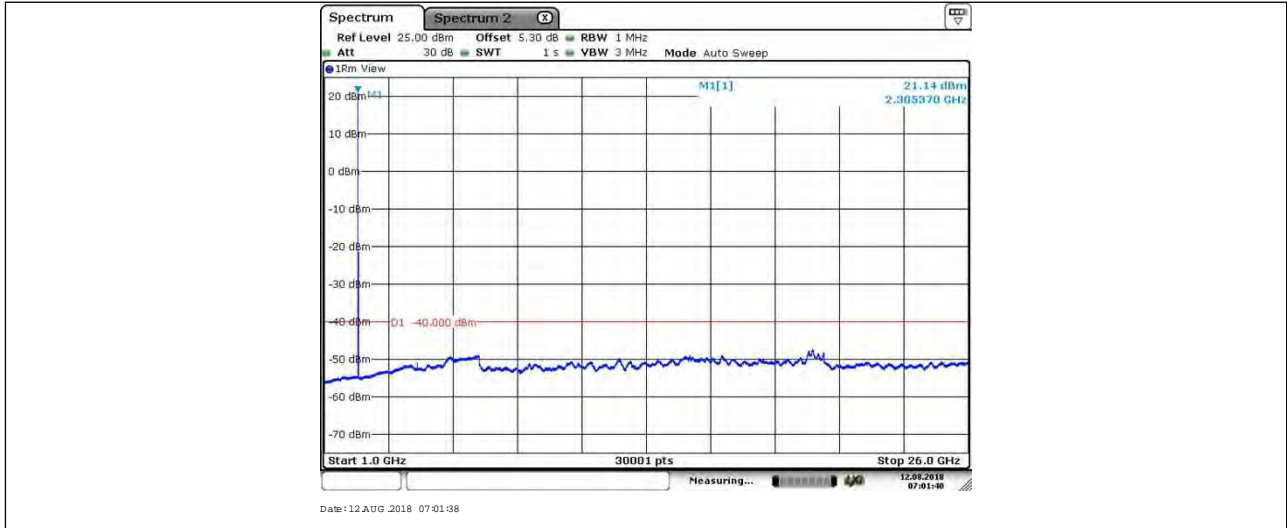
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Shenzhen Branch

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test BAND = LTE BAND 30

7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

7.1.1.1.1 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.350000 | -81.52 | -40.00 | 41.52 | Vertical |
| 104.250000 | -61.74 | -40.00 | 21.74 | Vertical |
| 2826.500000 | -53.31 | -40.00 | 13.31 | Vertical |
| 4205.750000 | -67.22 | -40.00 | 27.22 | Vertical |
| 6039.400000 | -65.22 | -40.00 | 25.22 | Vertical |
| 8639.725000 | -63.71 | -40.00 | 23.71 | Vertical |
| 63.200000 | -77.64 | -40.00 | 37.64 | Horizontal |
| 104.300000 | -72.54 | -40.00 | 32.54 | Horizontal |
| 2826.500000 | -48.05 | -40.00 | 8.05 | Horizontal |
| 4269.775000 | -67.23 | -40.00 | 27.23 | Horizontal |
| 6489.850000 | -65.16 | -40.00 | 25.16 | Horizontal |
| 9245.850000 | -63.68 | -40.00 | 23.68 | Horizontal |

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8 Frequency Stability

8.1 Frequency Vs Voltage

| Voltage | | | | | | | | | | |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| BAND30 | 10MHz | QPSK | 27710 | 50RB#0 | VH | NT | 6.40 | 0.002771 | ±2.5 | PASS |
| | | | | 50RB#0 | VL | NT | 3.00 | 0.001299 | ±2.5 | PASS |
| | | | | 50RB#0 | VN | NT | 6.30 | 0.002727 | ±2.5 | PASS |
| | | 16QAM | 27710 | 50RB#0 | VH | NT | 5.70 | 0.002468 | ±2.5 | PASS |
| | | | | 50RB#0 | VL | NT | 3.80 | 0.001645 | ±2.5 | PASS |
| | | | | 50RB#0 | VN | NT | 7.70 | 0.003333 | ±2.5 | PASS |
| | | 64QAM | 27710 | 50RB#0 | VH | NT | 3.40 | 0.001472 | ±2.5 | PASS |
| | | | | 50RB#0 | VL | NT | 4.60 | 0.001991 | ±2.5 | PASS |
| | | | | 50RB#0 | VN | NT | 4.40 | 0.001905 | ±2.5 | PASS |

8.2 Frequency Vs Temperature

| Temperature | | | | | | | | | | |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| BAND30 | 10MHz | QPSK | 27710 | 50RB#0 | NV | 0 | 5.30 | 0.002294 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 10 | 5.50 | 0.002381 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 20 | 3.50 | 0.001515 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -20 | 5.30 | 0.002294 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -30 | 3.70 | 0.001602 | ±2.5 | PASS |
| | | 16QAM | 27710 | 50RB#0 | NV | 0 | 7.90 | 0.003420 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 10 | 4.40 | 0.001905 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 20 | 3.00 | 0.001299 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -20 | 5.30 | 0.002294 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -30 | 5.00 | 0.002165 | ±2.5 | PASS |
| | | 64QAM | 27710 | 50RB#0 | NV | 0 | 4.70 | 0.002035 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 10 | 4.20 | 0.001818 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | 20 | 2.80 | 0.001212 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -20 | 4.50 | 0.001948 | ±2.5 | PASS |
| | | | | 50RB#0 | NV | -30 | 5.60 | 0.002424 | ±2.5 | PASS |

The End