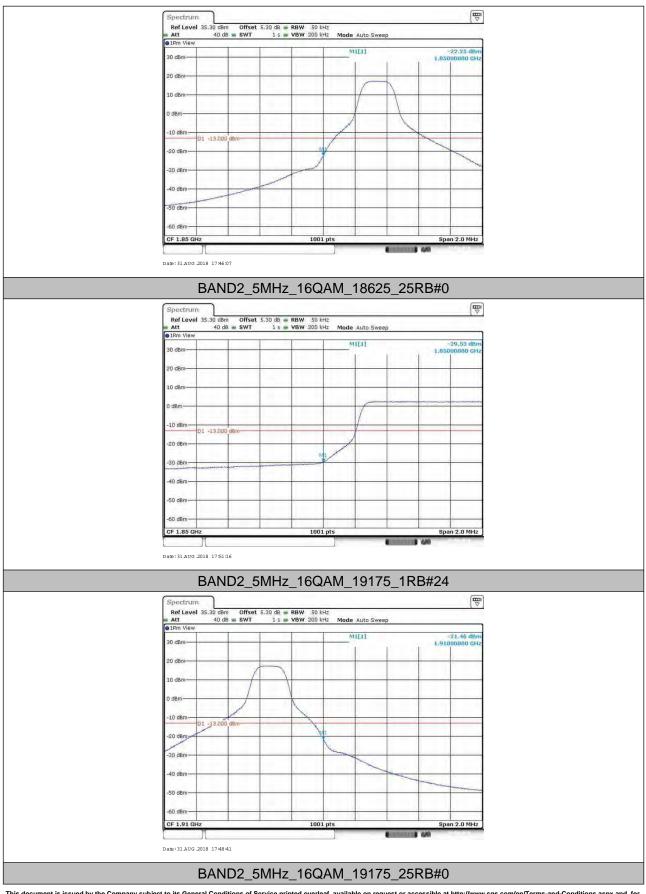
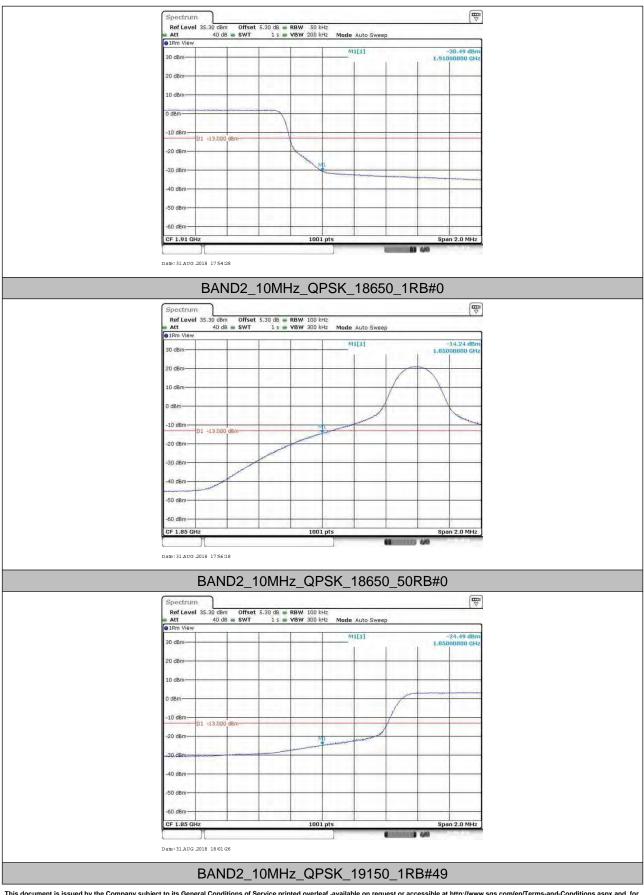


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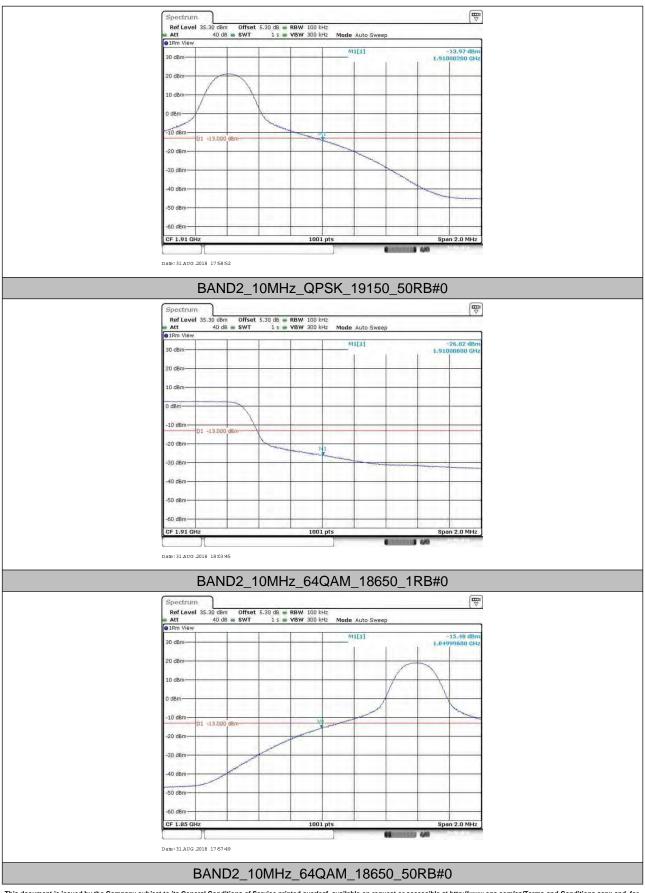


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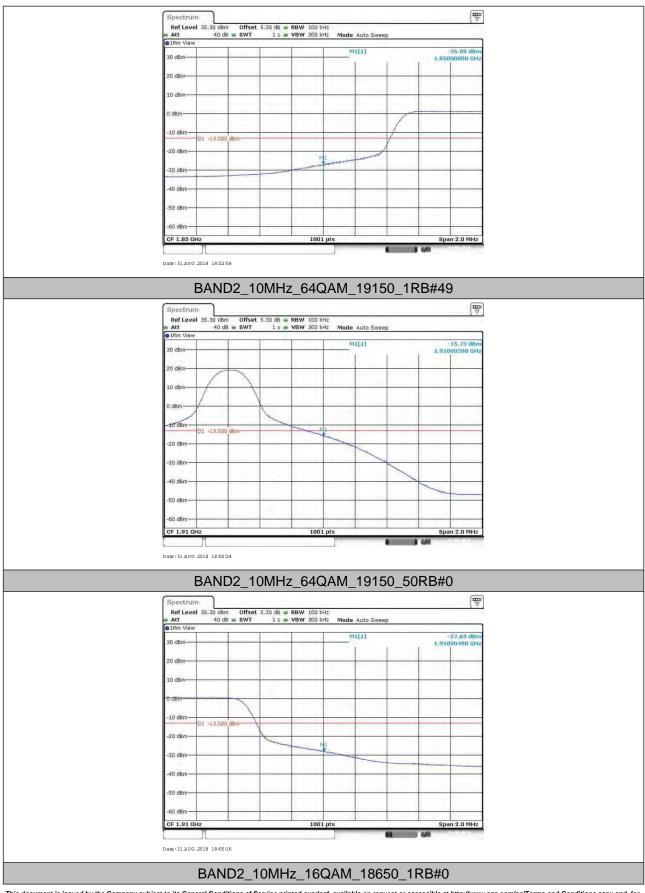


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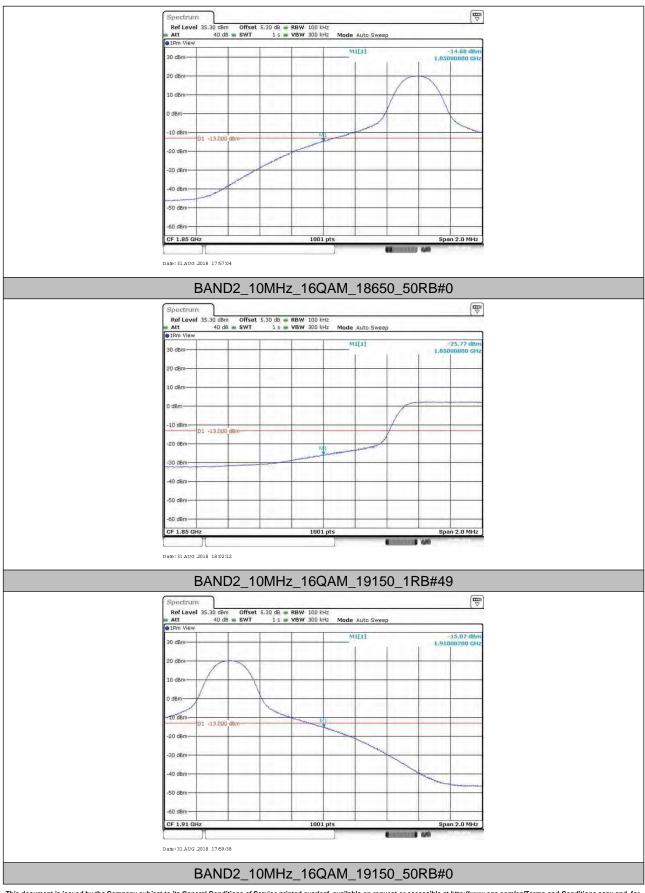


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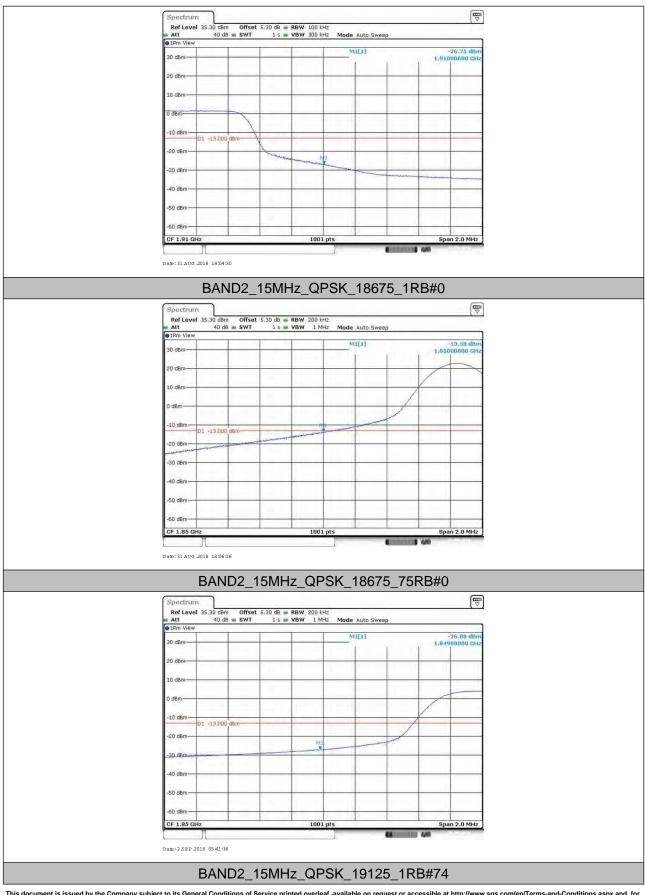


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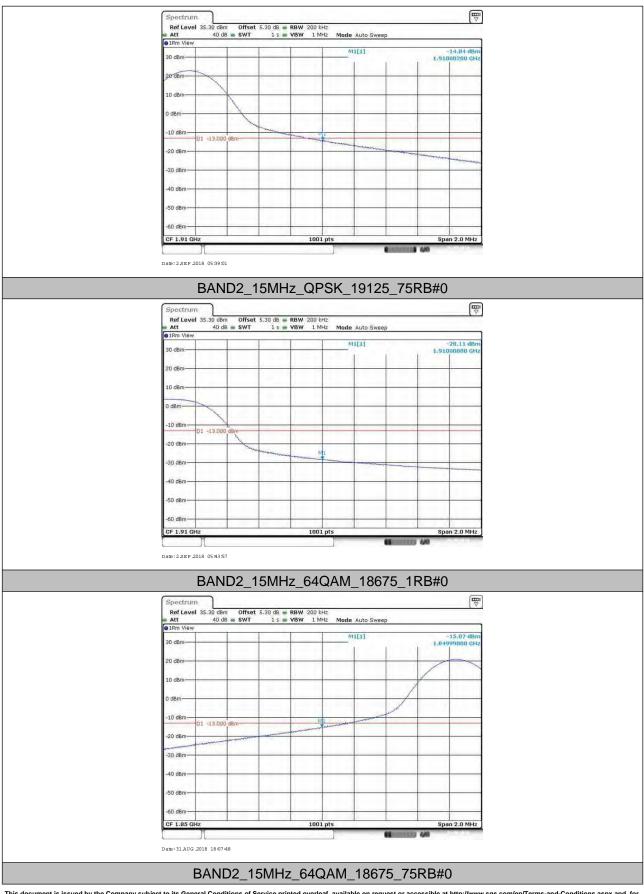


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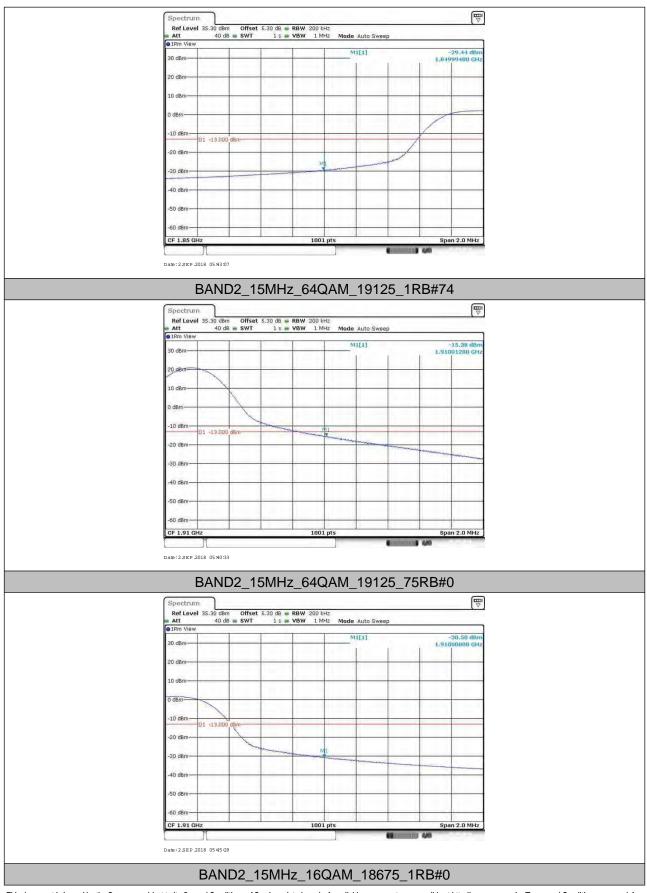


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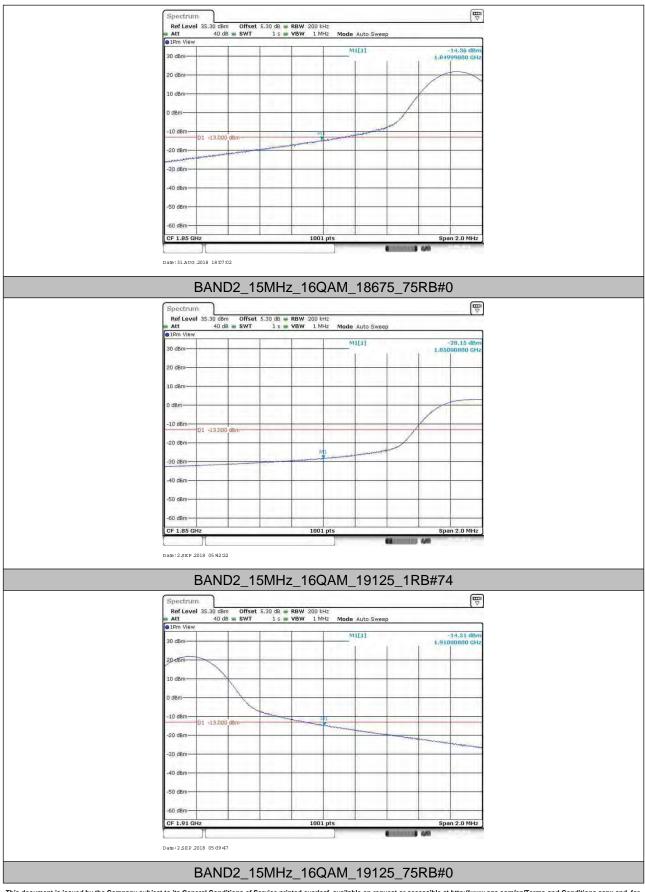


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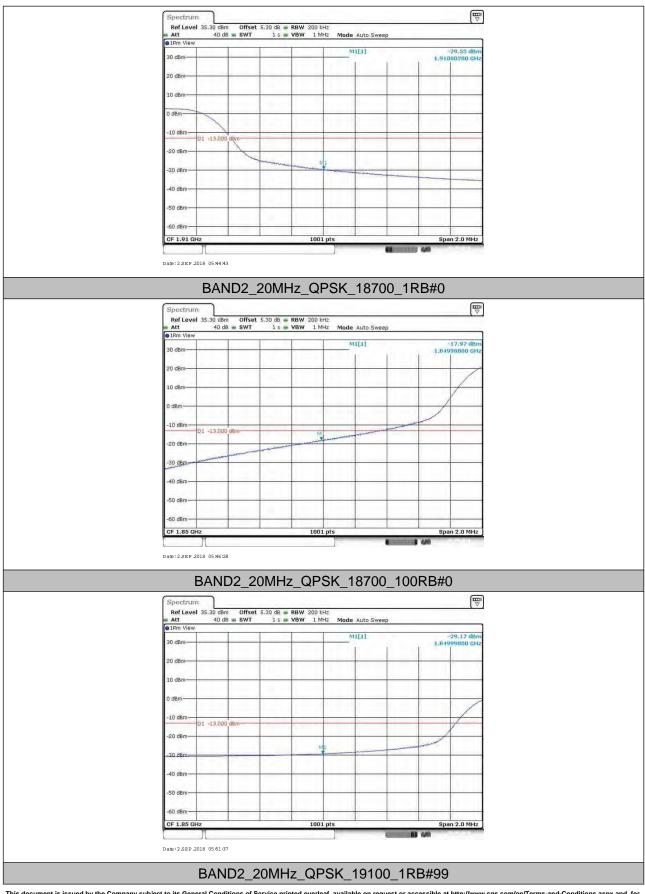


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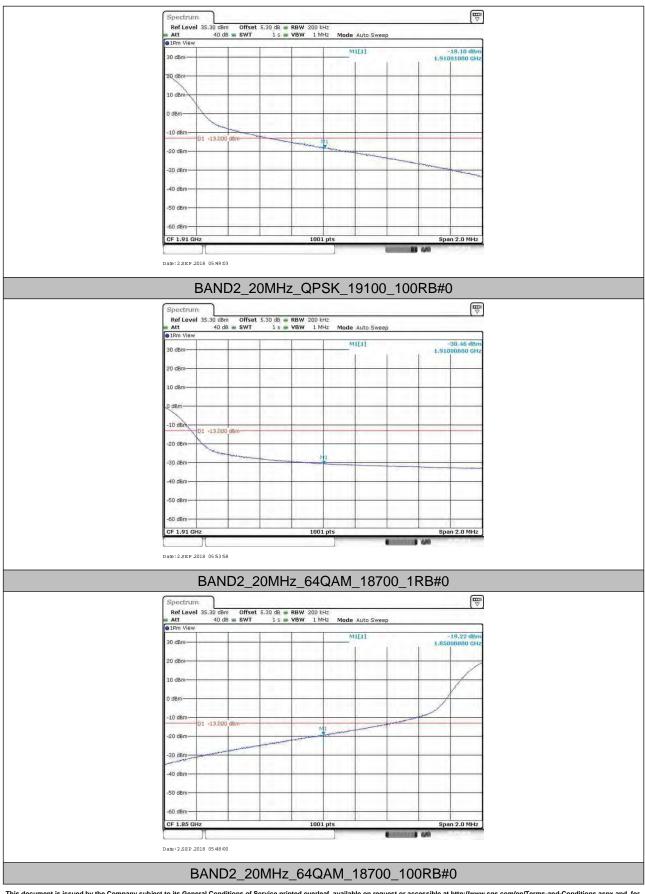


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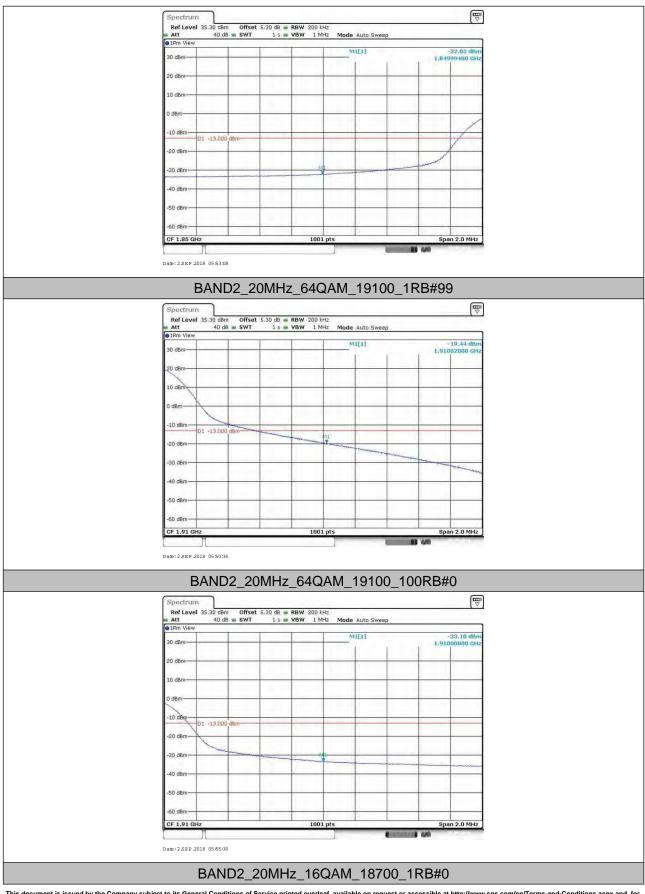


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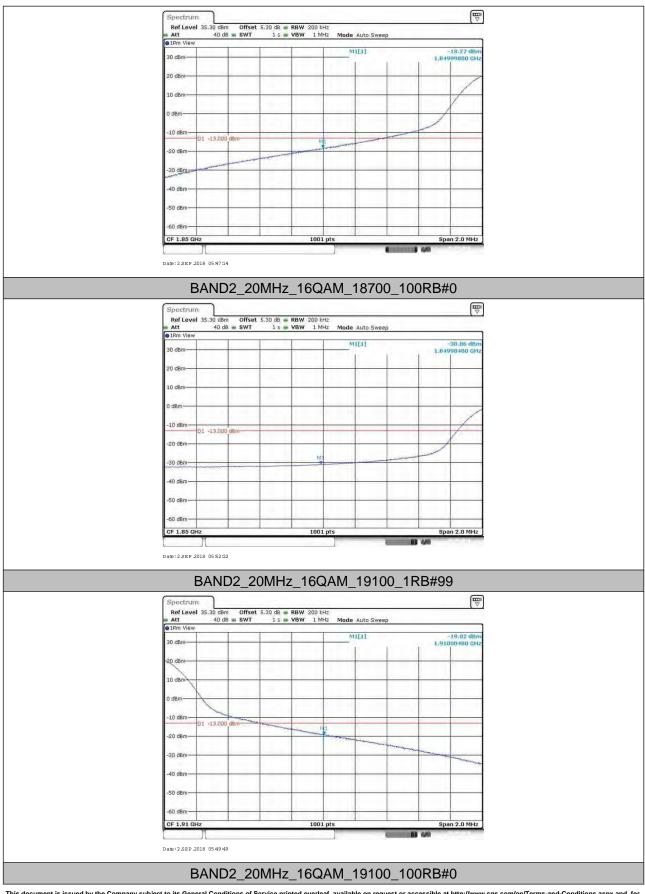


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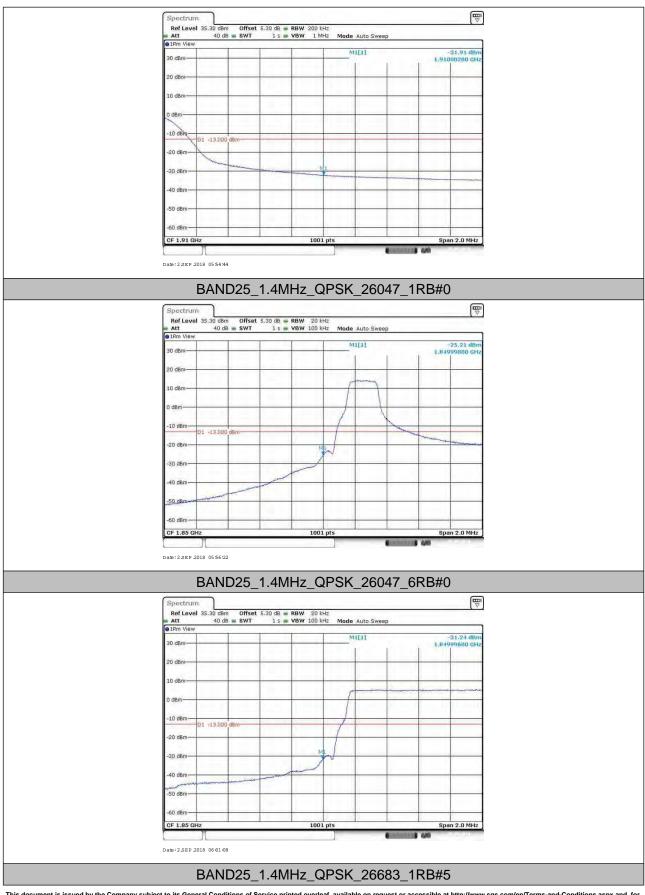


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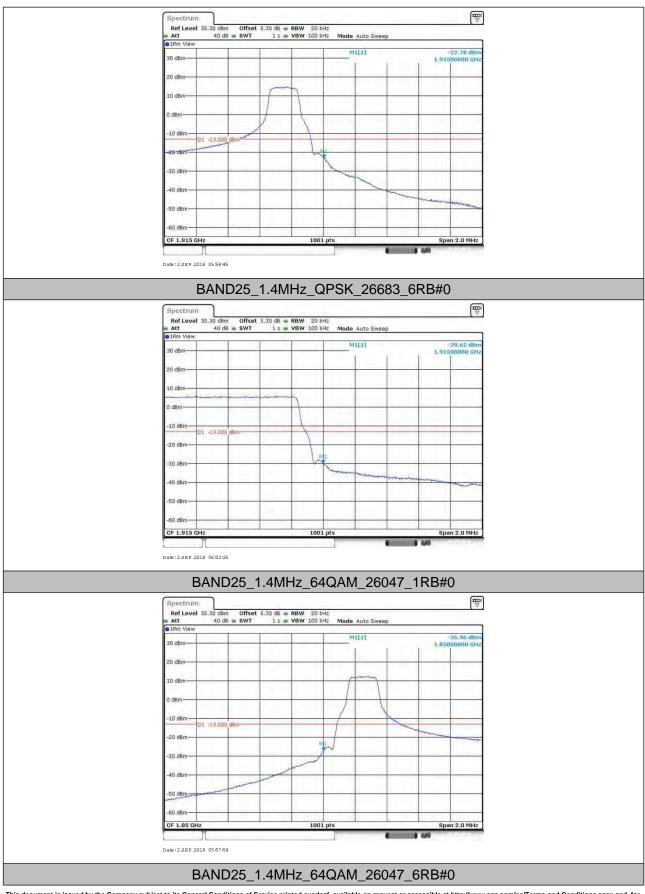


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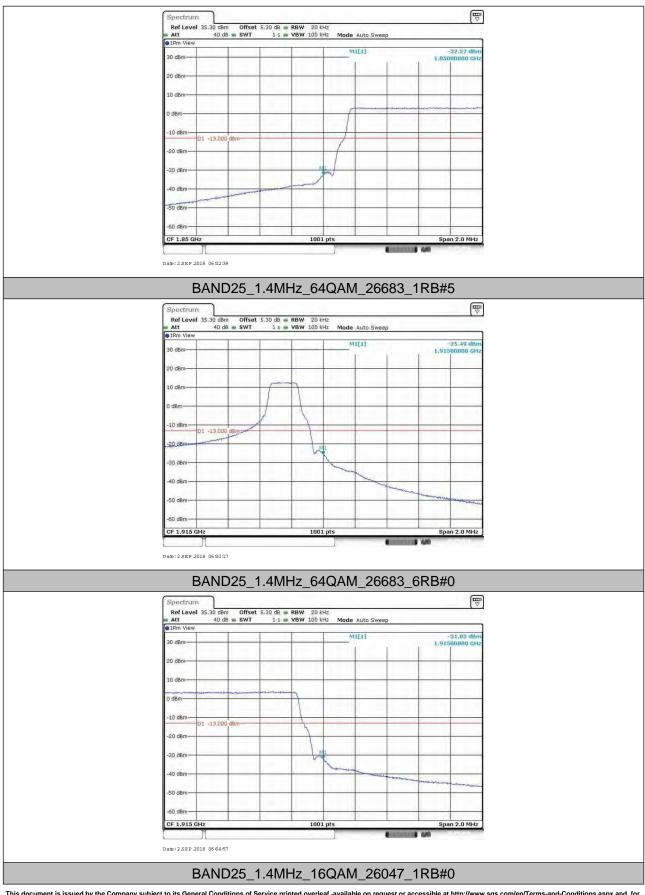


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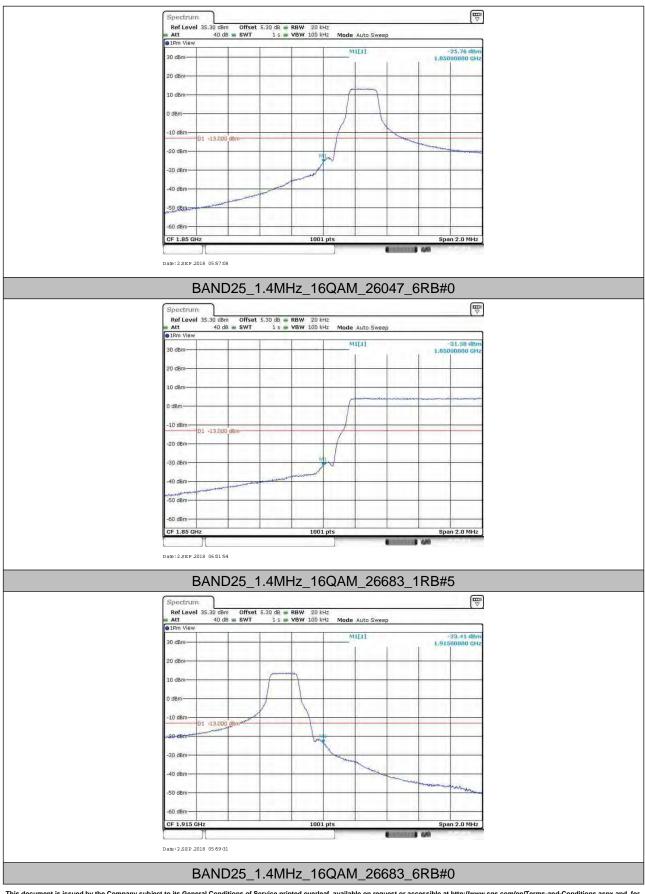


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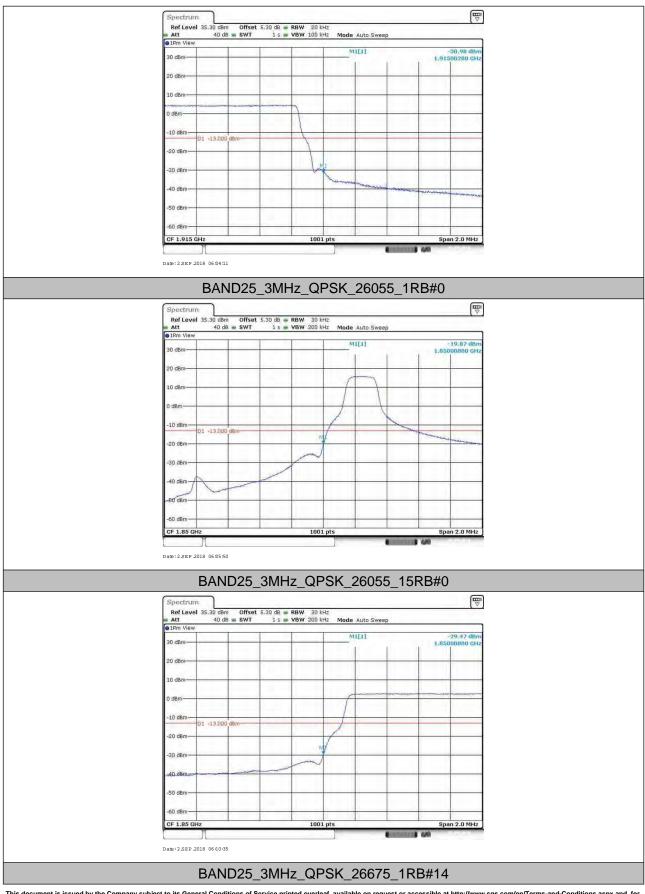


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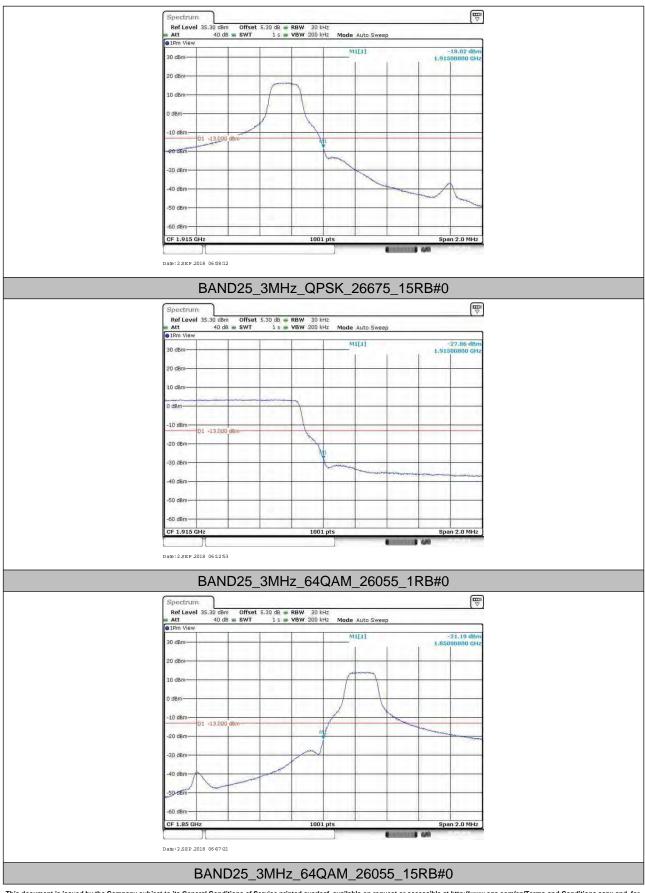


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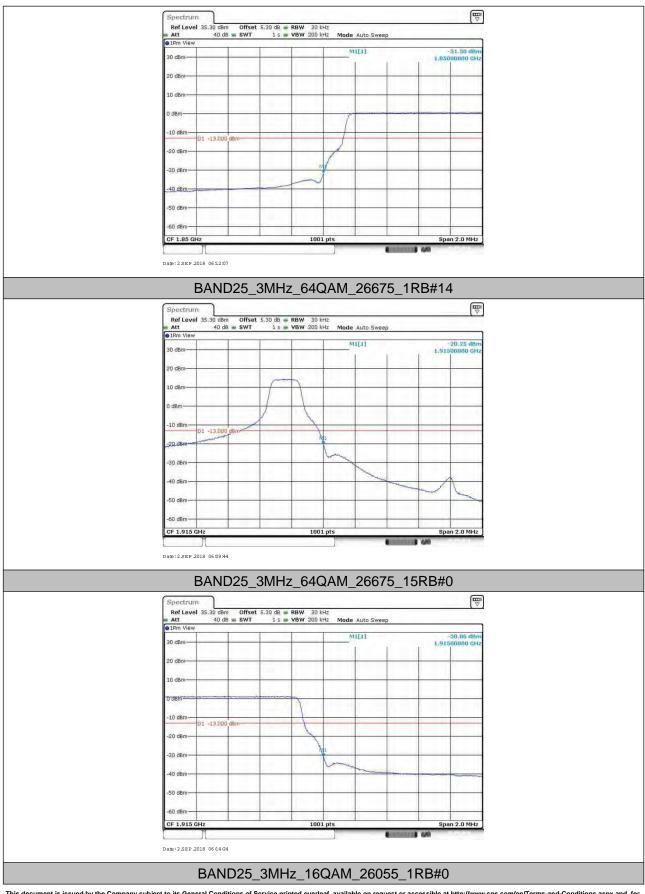


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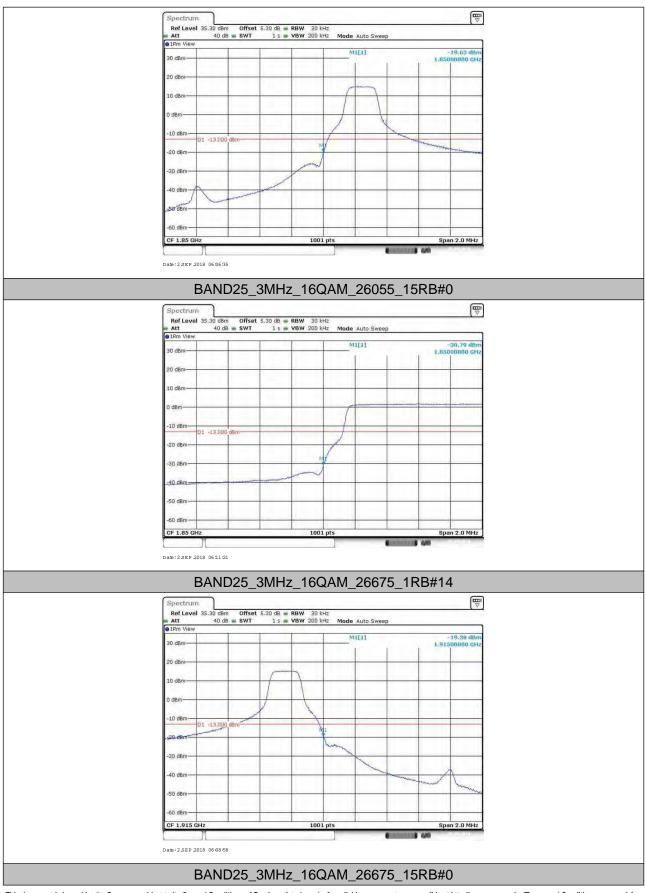


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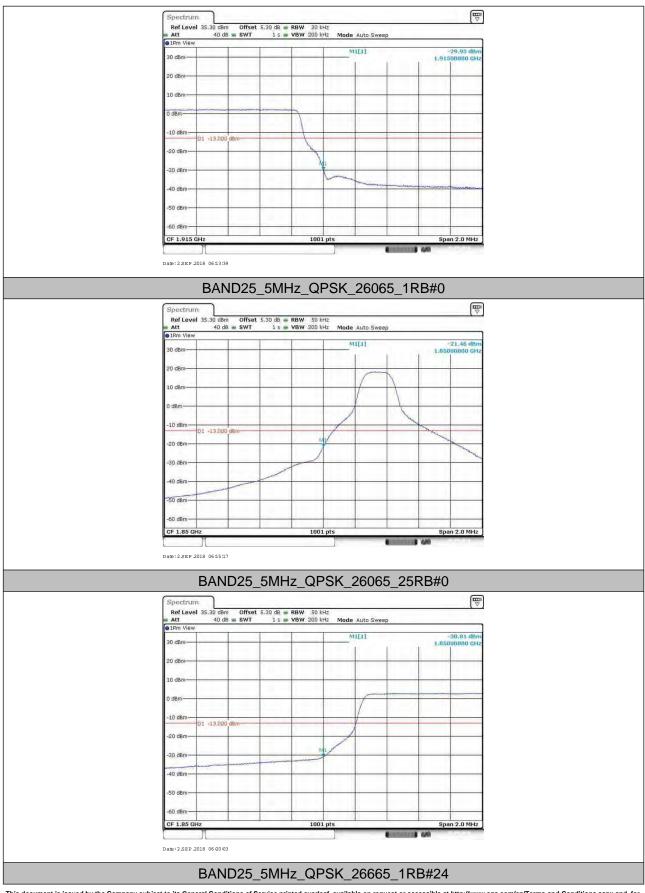


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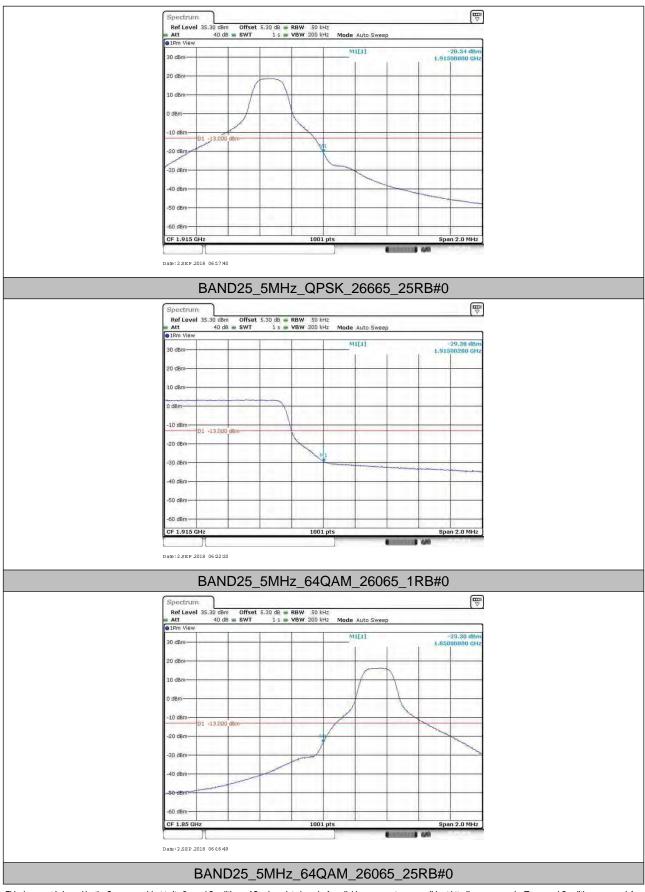


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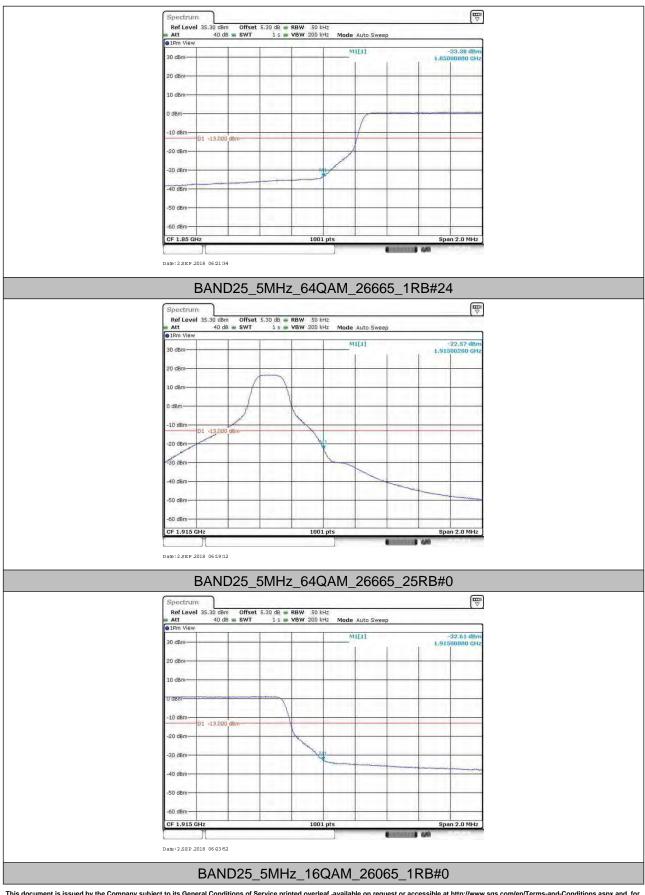


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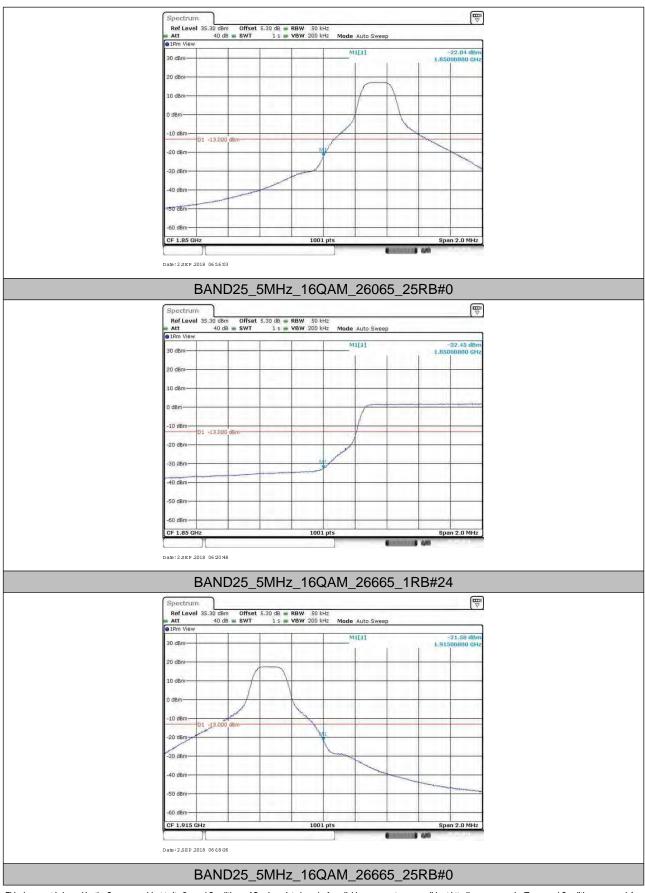


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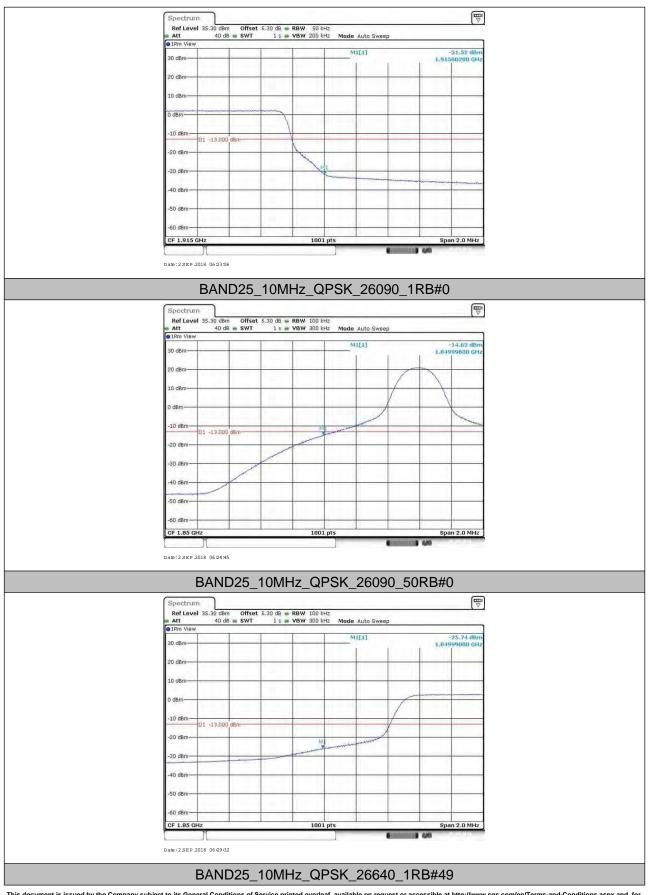


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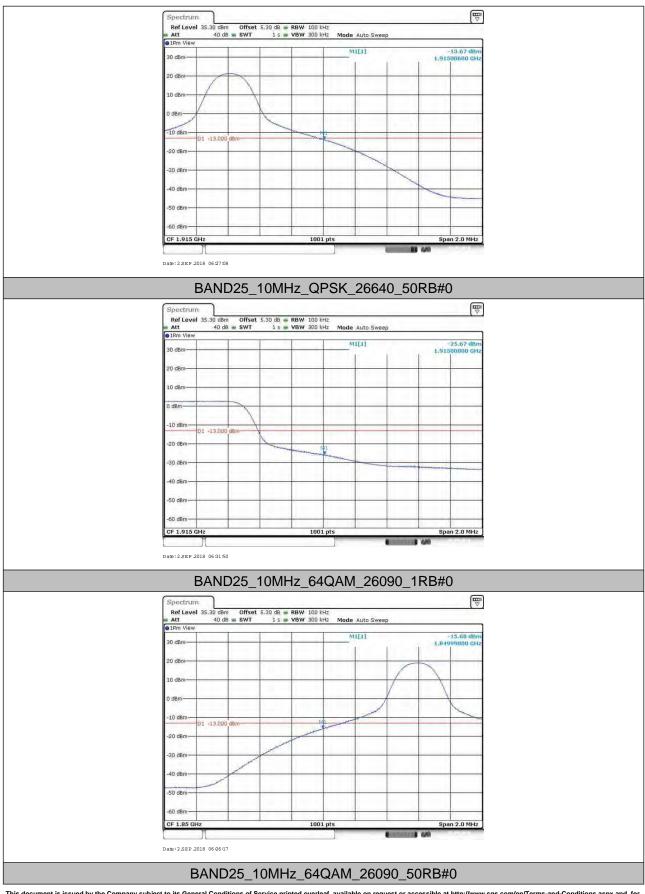


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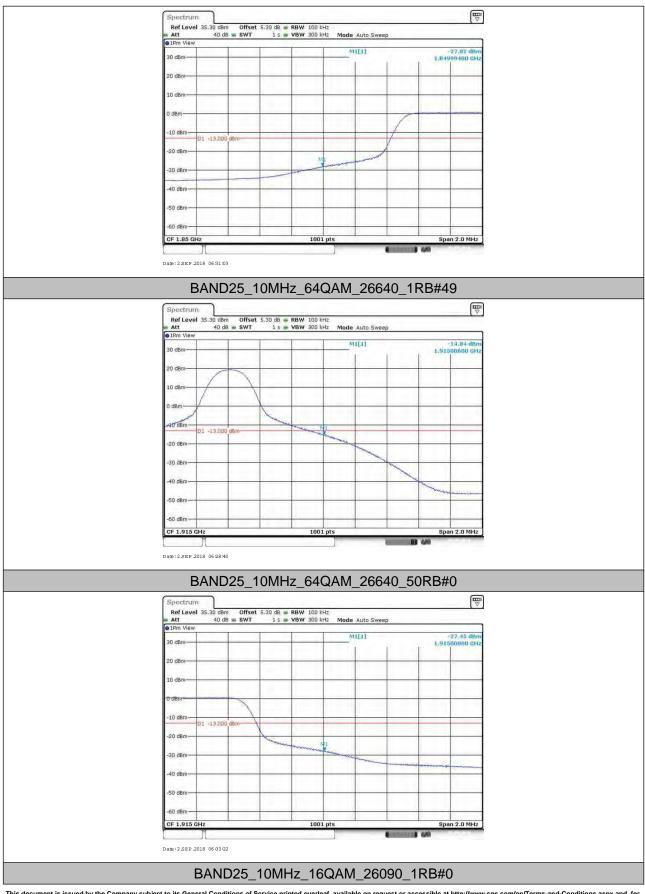


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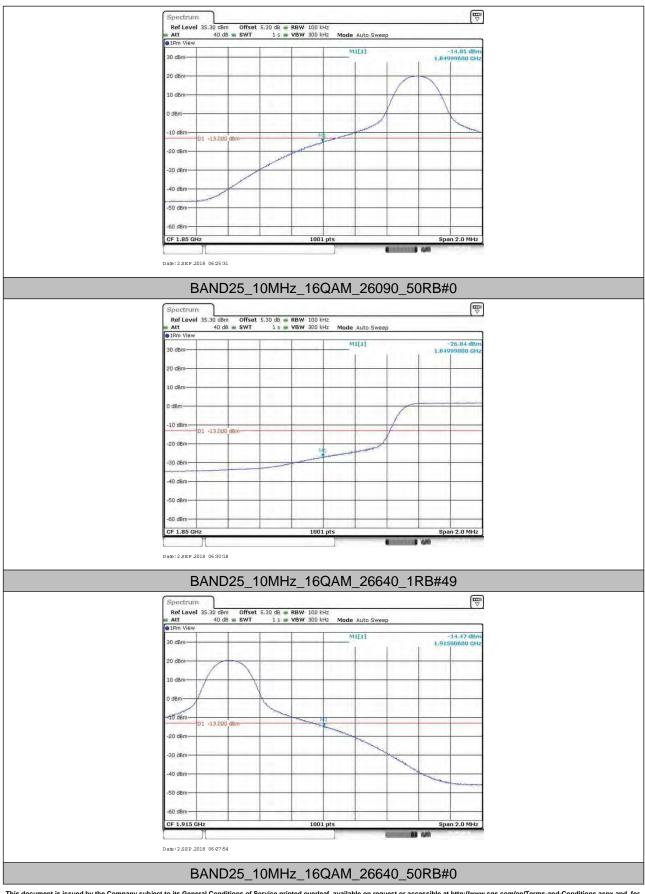


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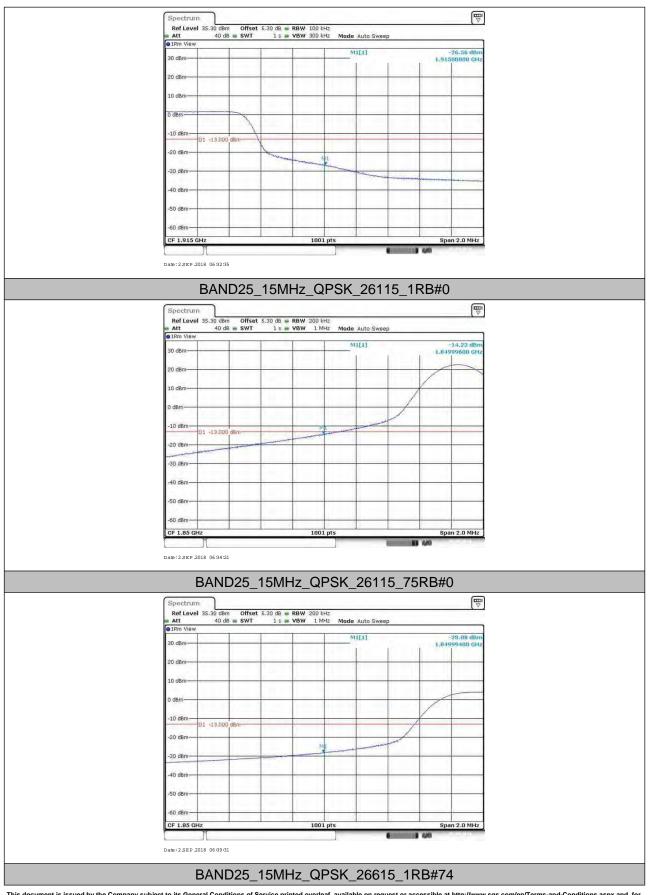


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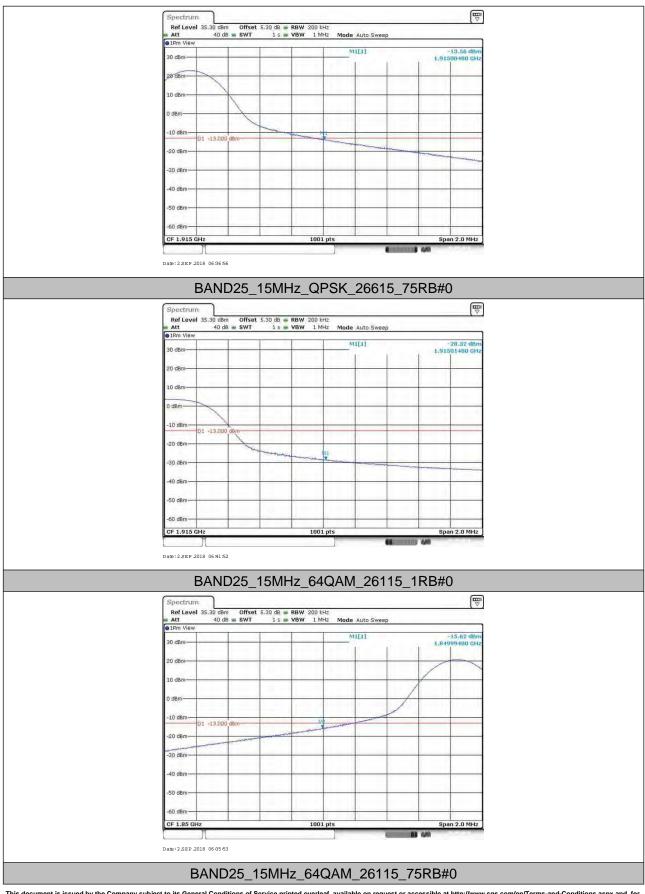


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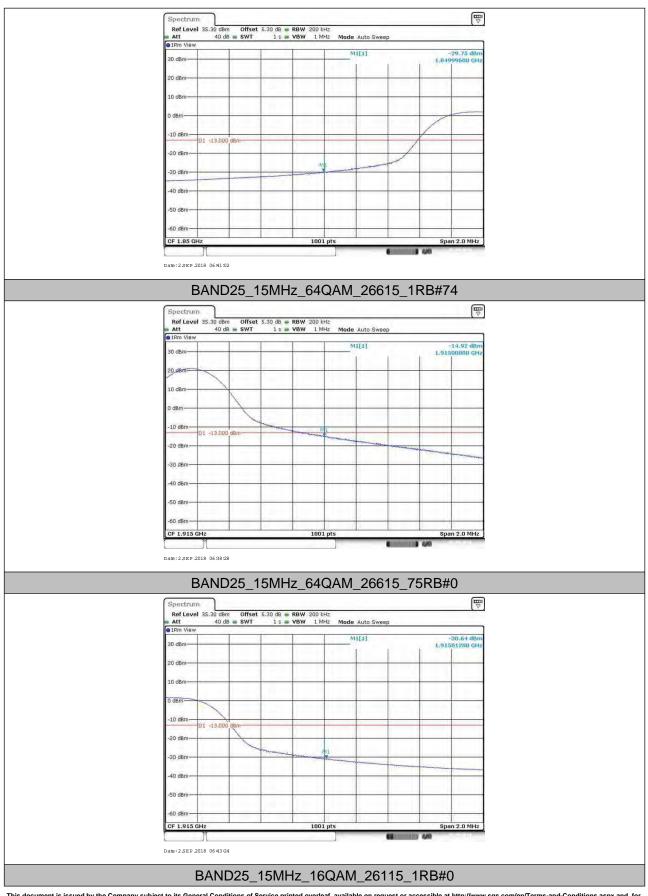


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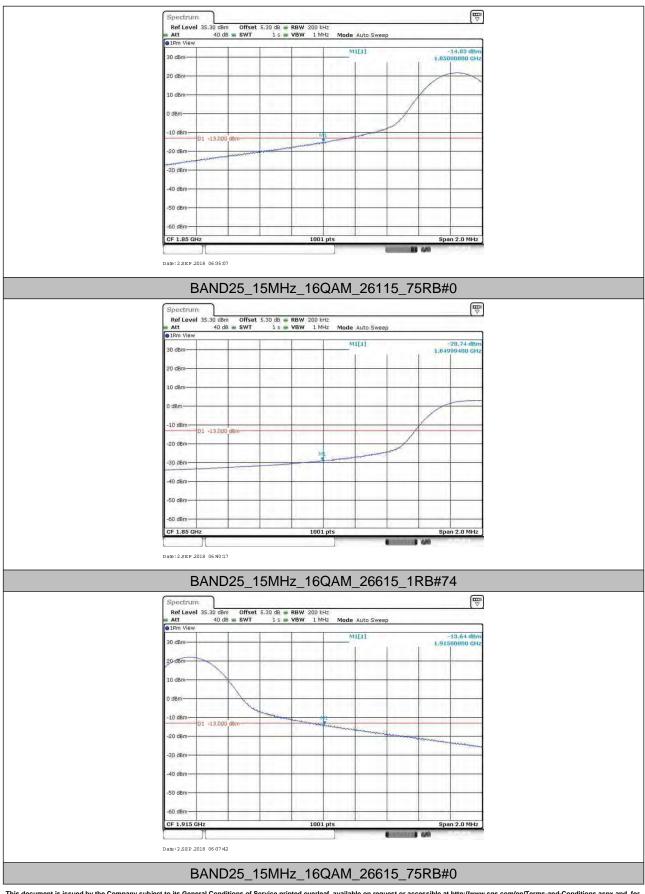


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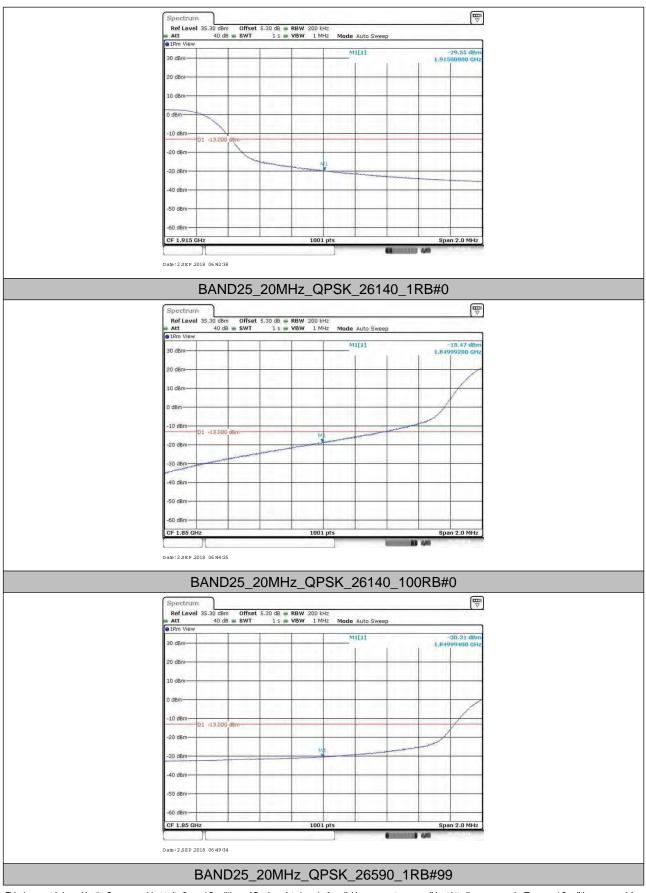


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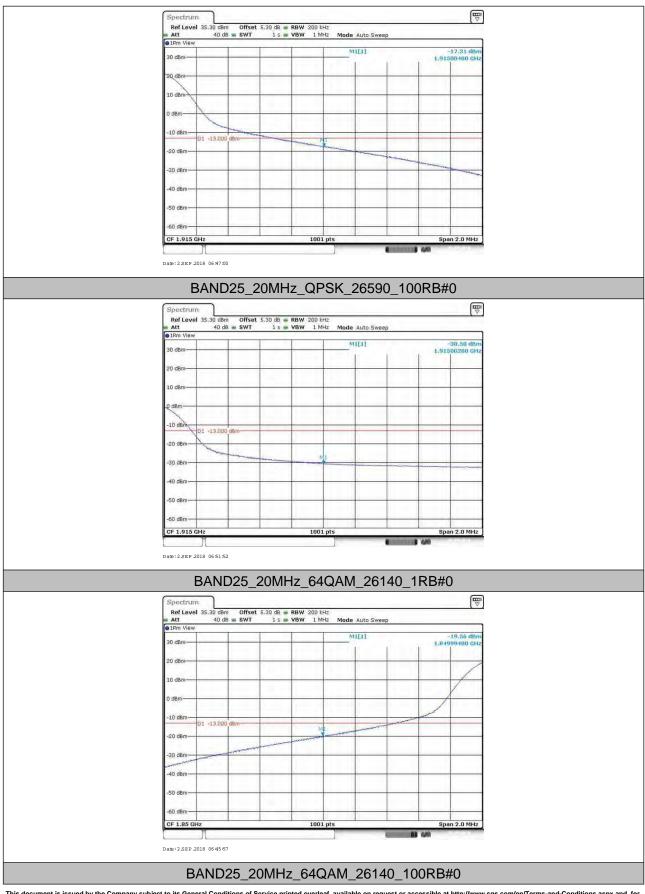


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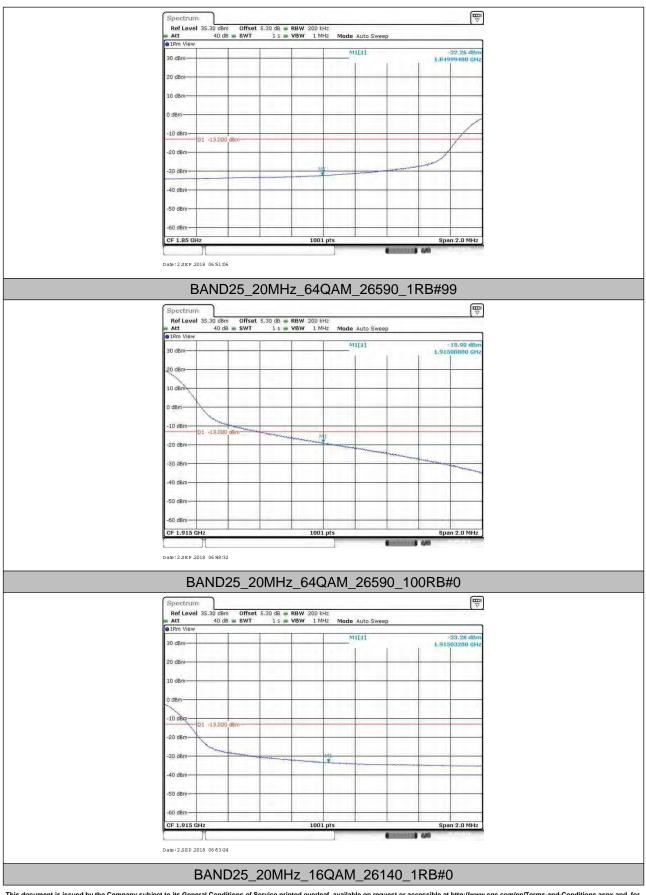


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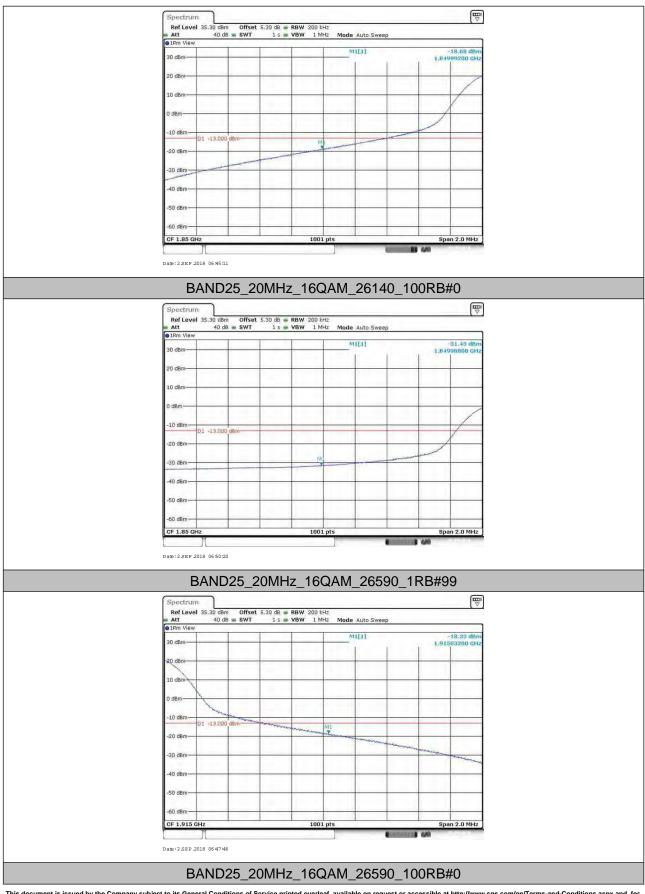


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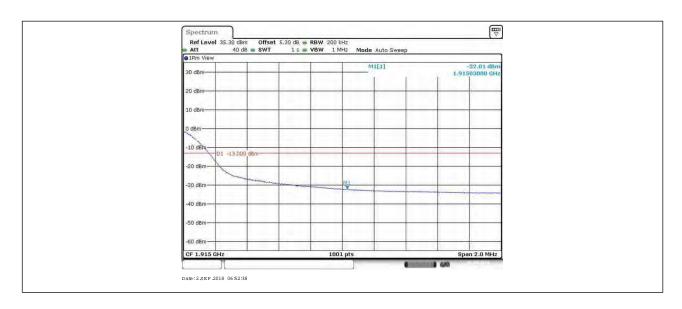


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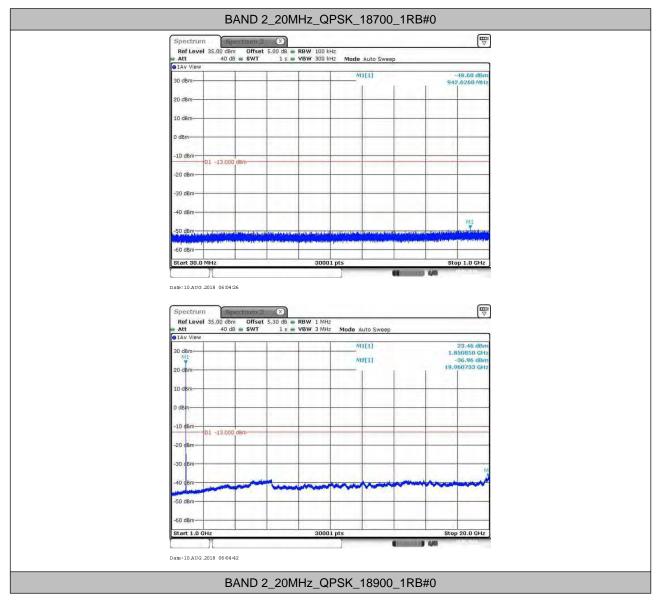


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6. Spurious Emission at Antenna Terminal

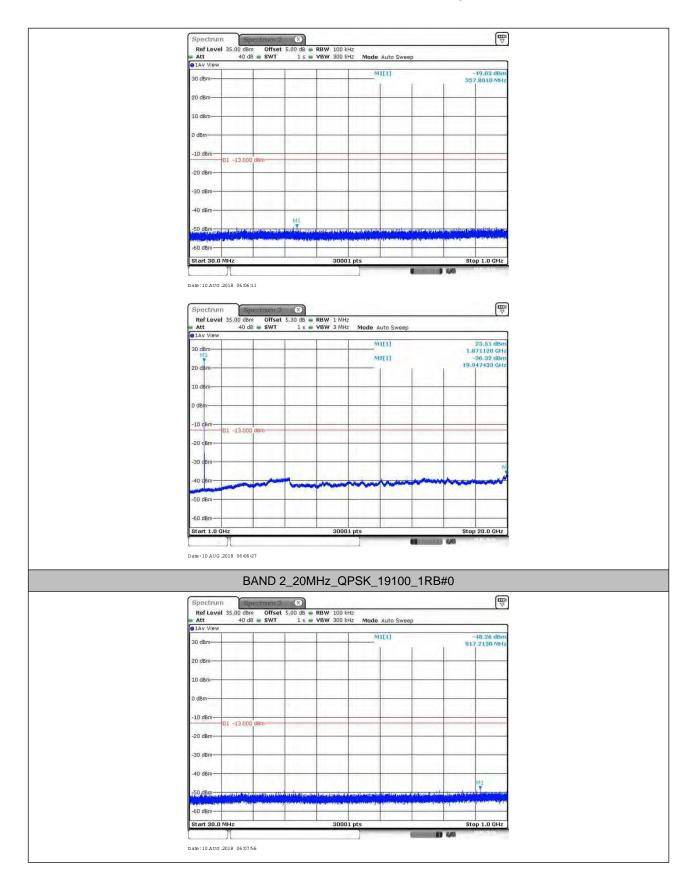
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (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.

5.1.Test Plots



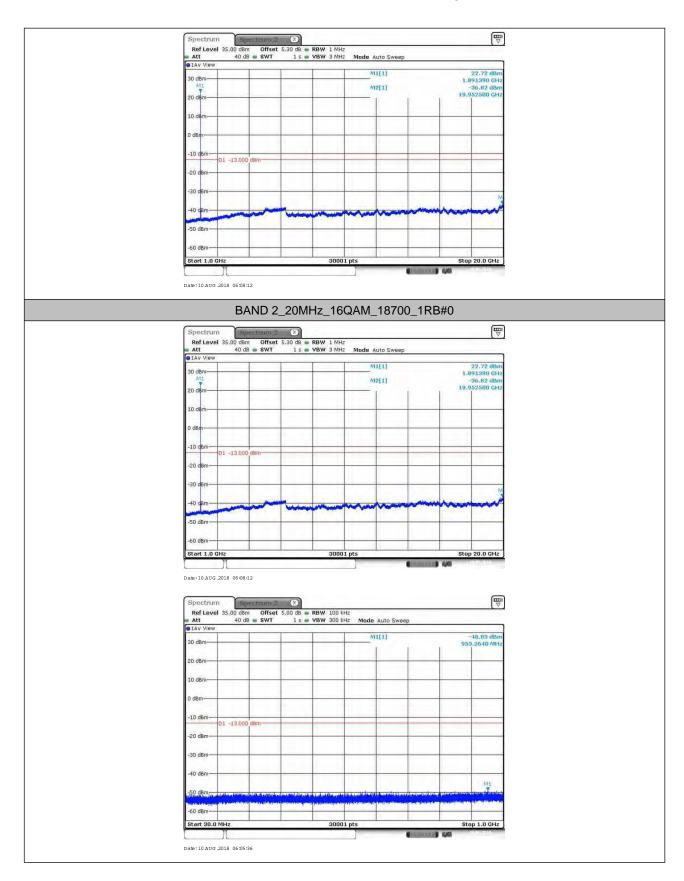


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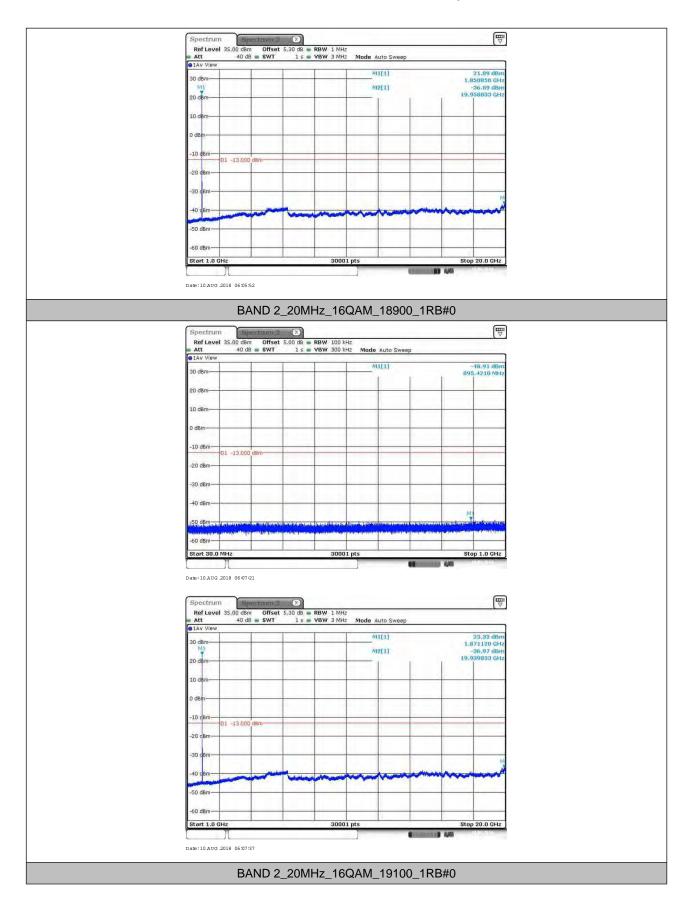


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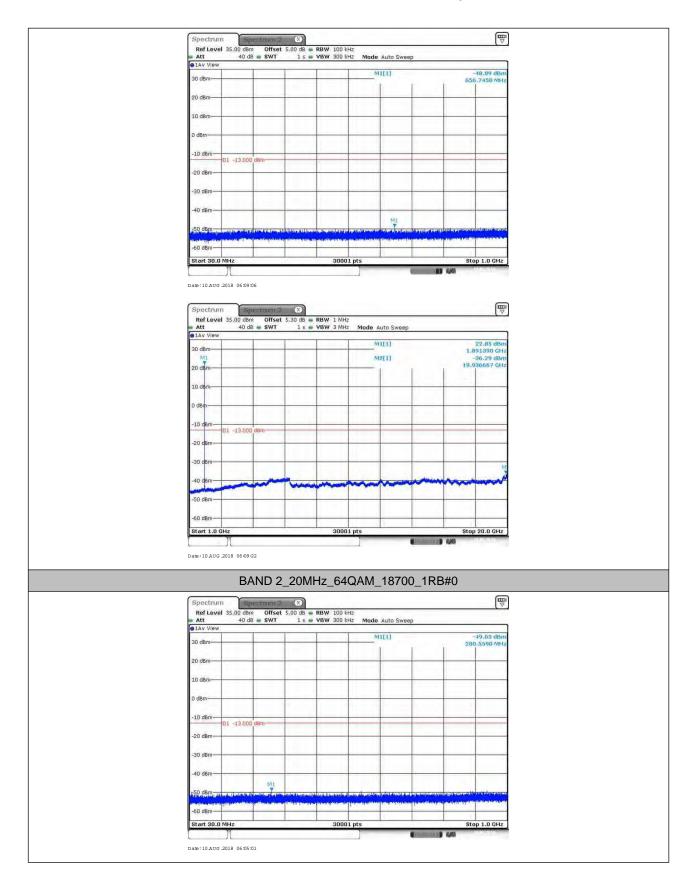


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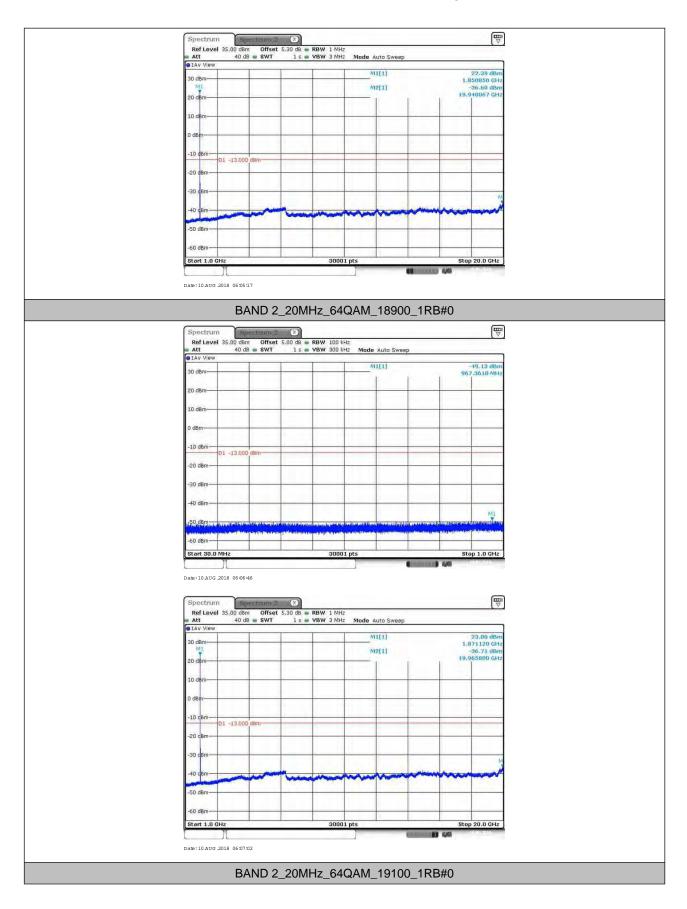


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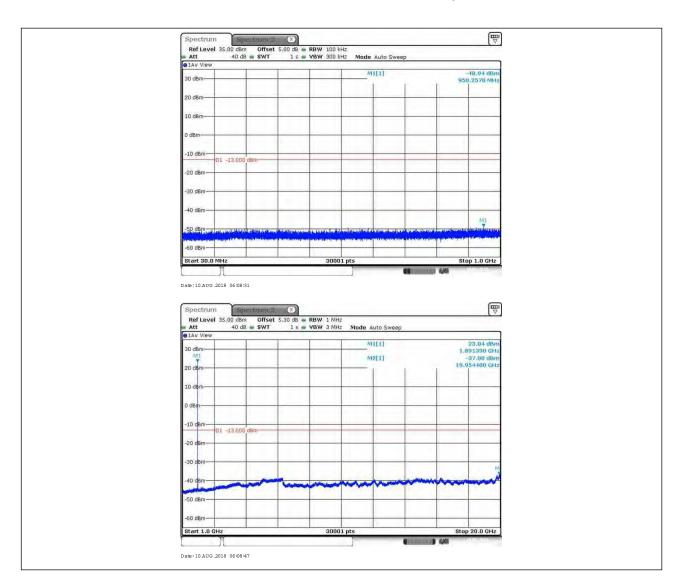


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7. Field Strength of Spurious Radiation

6.1.Test BAND = LTE BAND 2

6.1.1. Test Mode =LTE/TM1 20MHz

6.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.100000 | -81.77 | -13.00 | 68.77 | Vertical |
| 104.300000 | -65.29 | -13.00 | 52.29 | Vertical |
| 1259.500000 | -66.52 | -13.00 | 53.52 | Vertical |
| 2815.000000 | -57.83 | -13.00 | 44.83 | Vertical |
| 5552.875000 | -64.25 | -13.00 | 51.25 | Vertical |
| 8605.925000 | -63.78 | -13.00 | 50.78 | Vertical |
| 61.850000 | -78.53 | -13.00 | 65.53 | Horizontal |
| 104.250000 | -81.48 | -13.00 | 68.48 | Horizontal |
| 1231.500000 | -62.52 | -13.00 | 49.52 | Horizontal |
| 3702.000000 | -66.99 | -13.00 | 53.99 | Horizontal |
| 5813.200000 | -66.42 | -13.00 | 53.42 | Horizontal |
| 9255.275000 | -58.96 | -13.00 | 45.96 | Horizontal |

6.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.300000 | -81.30 | -13.00 | 68.30 | Vertical |
| 104.300000 | -65.00 | -13.00 | 52.00 | Vertical |
| 2880.500000 | -57.50 | -13.00 | 44.50 | Vertical |
| 3650.650000 | -68.48 | -13.00 | 55.48 | Vertical |
| 5613.000000 | -63.23 | -13.00 | 50.23 | Vertical |
| 9233.500000 | -63.88 | -13.00 | 50.88 | Vertical |
| 62.250000 | -77.97 | -13.00 | 64.97 | Horizontal |
| 104.250000 | -81.52 | -13.00 | 68.52 | Horizontal |
| 1441.000000 | -61.74 | -13.00 | 48.74 | Horizontal |
| 3741.650000 | -68.10 | -13.00 | 55.10 | Horizontal |
| 5613.000000 | -65.59 | -13.00 | 52.59 | Horizontal |
| 9355.375000 | -60.85 | -13.00 | 47.85 | Horizontal |



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| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.050000 | -81.97 | -13.00 | 68.97 | Vertical |
| 104.250000 | -65.34 | -13.00 | 52.34 | Vertical |
| 2456.000000 | -58.94 | -13.00 | 45.94 | Vertical |
| 3805.675000 | -68.17 | -13.00 | 55.17 | Vertical |
| 5673.125000 | -63.71 | -13.00 | 50.71 | Vertical |
| 8605.925000 | -63.79 | -13.00 | 50.79 | Vertical |
| 62.750000 | -77.65 | -13.00 | 64.65 | Horizontal |
| 104.300000 | -80.79 | -13.00 | 67.79 | Horizontal |
| 1259.500000 | -62.49 | -13.00 | 49.49 | Horizontal |
| 4294.800000 | -66.66 | -13.00 | 53.66 | Horizontal |
| 5673.125000 | -65.06 | -13.00 | 52.06 | Horizontal |
| 7947.150000 | -63.69 | -13.00 | 50.69 | Horizontal |

6.1.1.3. Test Channel = HCH

NOTE:

- All modes are tested, but the data presented above is the worst case.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.



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8. Frequency Stability

7.1. Frequency Vs Voltage

| | | | | | Voltage | | | | | |
|--------------|-----------|------------|-------------|-----------------|----------------------|------------------------|-------------------|--------------------|----------------|-------------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltag e [Vdc] | Temperatur e (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdic t |
| | | | | 100RB#0 | VH | NT | 0.80 | 0.000430 | ±2.5 | PASS |
| | | | 18700 | 100RB#0 | VL | NT | 1.80 | 0.000968 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -0.50 | -0.000269 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| | | QPSK | 18900 | 100RB#0 | VL | NT | -0.80 | -0.000426 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 0.10 | 0.000053 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | -1.10 | -0.000579 | ±2.5 | PASS |
| | | | 19100 | 100RB#0 | VL | NT | -0.60 | -0.000316 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -0.70 | -0.000368 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 2.20 | 0.001183 | ±2.5 | PASS |
| | | | 18700 | 100RB#0 | VL | NT | 1.20 | 0.000645 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 0.50 | 0.000269 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | -0.60 | -0.000319 | ±2.5 | PASS |
| BAND 2 20MHz | 16QAM | 18900 | 100RB#0 | VL | NT | -0.20 | -0.000106 | ±2.5 | PASS | |
| | | | | 100RB#0 | VN | NT | 0.40 | 0.000213 | ±2.5 | PASS |
| | | | 19100 | 100RB#0 | VH | NT | 1.30 | 0.000684 | ±2.5 | PASS |
| | | | | 100RB#0 | VL | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| | | | 18700 | 100RB#0 | VH | NT | 0.30 | 0.000161 | ±2.5 | PASS |
| | | | | 100RB#0 | VL | NT | -0.90 | -0.000484 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | -0.20 | -0.000108 | ±2.5 | PASS |
| | | | | 100RB#0 | VH | NT | 0.00 | 0.000000 | ±2.5 | PASS |
| | | 64QAM | 64QAM 18900 | 100RB#0 | VL | NT | -0.50 | -0.000266 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 0.40 | 0.000213 | ±2.5 | PASS |
| | | | 19100 | 100RB#0 | VH | NT | -0.10 | -0.000053 | ±2.5 | PASS |
| | | | | 100RB#0 | VL | NT | 1.00 | 0.000526 | ±2.5 | PASS |
| | | | | 100RB#0 | VN | NT | 1.60 | 0.000842 | ±2.5 | PASS |



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7.2. Frequency Vs Temperature

| | Temperature | | | | | | | | | |
|--------|-------------|------------|------------|-----------------|----------------------|------------------------|-------------------|--------------------|----------------|-------------|
| BAND | Bandwidth | Modulation | Channel | RB Configure | Voltag e [Vdc] | Temperatur e (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdic t |
| | | | | 100RB#0 | NV | 0 | 0.30 | 0.000161 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.50 | 0.000806 | ±2.5 | PASS |
| | | | 18700 | 100RB#0 | NV | 20 | 0.30 | 0.000161 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 2.80 | 0.001505 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 1.80 | 0.000968 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | 0.50 | 0.000266 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.00 | 0.000532 | ±2.5 | PASS |
| | | QPSK | 18900 | 100RB#0 | NV | 20 | -1.40 | -0.000745 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 2.00 | 0.001064 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 0.10 | 0.000053 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | -0.30 | -0.000158 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | -0.20 | -0.000105 | ±2.5 | PASS |
| | | | 19100 | 100RB#0 | NV | 20 | -0.20 | -0.000105 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | -0.50 | -0.000263 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | -1.40 | -0.000737 | ±2.5 | PASS |
| | | 16QAM | 18700 | 100RB#0 | NV | 0 | 2.40 | 0.001290 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 0.40 | 0.000215 | ±2.5 | PASS |
| BAND 2 | 20MHz | | | 100RB#0 | NV | 20 | 0.20 | 0.000108 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 0.70 | 0.000376 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 0.70 | 0.000376 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | 2.00 | 0.001064 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | -0.40 | -0.000213 | ±2.5 | PASS |
| | | | 18900 | 100RB#0 | NV | 20 | -2.00 | -0.001064 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | -1.60 | -0.000851 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 0.10 | 0.000053 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 0 | 1.10 | 0.000579 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 1.90 | 0.001000 | ±2.5 | PASS |
| | | | 19100 | 100RB#0 | NV | 20 | 0.90 | 0.000474 | ±2.5 | PASS |
| | | | - | 100RB#0 | NV | -20 | 0.90 | 0.000474 | ±2.5 | PASS |
| | _ | | | 100RB#0 | NV | -30 | 0.10 | 0.000053 | ±2.5 | PASS |
| | | | 4QAM 18700 | 100RB#0 | NV | 0 | 1.60 | 0.000851 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | 10 | 0.50 | 0.000269 | ±2.5 | PASS |
| | | 64QAM | | 100RB#0 | NV | 20 | -0.30 | -0.000158 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -20 | 4.10 | 0.001633 | ±2.5 | PASS |
| | | | | 100RB#0 | NV | -30 | 1.80 | 0.000968 | ±2.5 | PASS |



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| | | | | | | | - | |
|--|-------|---------|----|-----|-------|-----------|------|------|
| | | 100RB#0 | NV | 0 | 0.40 | 0.000213 | ±2.5 | PASS |
| | | 100RB#0 | NV | 10 | 1.20 | 0.000638 | ±2.5 | PASS |
| | 18900 | 100RB#0 | NV | 20 | 1.00 | 0.000532 | ±2.5 | PASS |
| | | 100RB#0 | NV | -20 | 1.60 | 0.000851 | ±2.5 | PASS |
| | | 100RB#0 | NV | -30 | 0.90 | 0.000479 | ±2.5 | PASS |
| | 19100 | 100RB#0 | NV | 0 | 0.00 | 0.000000 | ±2.5 | PASS |
| | | 100RB#0 | NV | 10 | 0.10 | 0.000053 | ±2.5 | PASS |
| | | 100RB#0 | NV | 20 | 1.40 | 0.000737 | ±2.5 | PASS |
| | | 100RB#0 | NV | -20 | 0.90 | 0.000474 | ±2.5 | PASS |
| | | 100RB#0 | NV | -30 | -1.30 | -0.000684 | ±2.5 | PASS |

The End

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