# Appendix B

## WCDMA Band II & IV & V

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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band | Modulation | Channel | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band II | QPSK | 9262 | 22.77 | 22.64 | 33.00 | PASS |
| Band II | QPSK | 9400 | 22.74 | 22.61 | 33.00 | PASS |
| Band II | QPSK | 9538 | 22.83 | 22.70 | 33.00 | PASS |
| Band II | 16QAM | 9262 | 19.04 | 18.91 | 33.00 | PASS |
| Band II | 16QAM | 9400 | 19.39 | 19.26 | 33.00 | PASS |
| Band II | 16QAM | 9538 | 19.25 | 19.12 | 33.00 | PASS |
| Band IV | QPSK | 1312 | 22.46 | 21.76 | 30.00 | PASS |
| Band IV | QPSK | 1413 | 22.51 | 21.81 | 30.00 | PASS |
| Band IV | QPSK | 1513 | 22.47 | 21.77 | 30.00 | PASS |
| Band IV | 16QAM | 1312 | 19.51 | 18.81 | 30.00 | PASS |
| Band IV | 16QAM | 1413 | 19.59 | 18.89 | 30.00 | PASS |
| Band IV | 16QAM | 1513 | 19.49 | 18.79 | 30.00 | PASS |

| Band | Modulation | Channel | Conducted Power(dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band V | QPSK | 4132 | 21.17 | 17.48 | 38.45 | PASS |
| Band V | QPSK | 4182 | 21.20 | 17.51 | 38.45 | PASS |
| Band V | QPSK | 4233 | 21.26 | 17.57 | 38.45 | PASS |
| Band V | 16QAM | 4132 | 18.07 | 14.38 | 38.45 | PASS |
| Band V | 16QAM | 4182 | 18.18 | 14.49 | 38.45 | PASS |
| Band V | 16QAM | 4233 | 18.36 | 14.67 | 38.45 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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# 2. Peak-to-Average Ratio(CCDF)

## 2.1. Test Result

| Band | Modulation | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|
| Band II | QPSK | 9262 | 3.01 | 13 | PASS |
| Band II | QPSK | 9400 | 3.01 | 13 | PASS |
| Band II | QPSK | 9538 | 2.96 | 13 | PASS |
| Band II | 16QAM | 9262 | 3.04 | 13 | PASS |
| Band II | 16QAM | 9400 | 2.96 | 13 | PASS |
| Band II | 16QAM | 9538 | 2.72 | 13 | PASS |
| Band IV | QPSK | 1312 | 3.04 | 13 | PASS |
| Band IV | QPSK | 1413 | 3.07 | 13 | PASS |
| Band IV | QPSK | 1513 | 3.07 | 13 | PASS |
| Band IV | 16QAM | 1312 | 2.93 | 13 | PASS |
| Band IV | 16QAM | 1413 | 2.96 | 13 | PASS |
| Band IV | 16QAM | 1513 | 2.90 | 13 | PASS |
| Band V | QPSK | 4132 | 2.72 | 13 | PASS |
| Band V | QPSK | 4182 | 2.72 | 13 | PASS |
| Band V | QPSK | 4233 | 2.72 | 13 | PASS |
| Band V | 16QAM | 4132 | 2.14 | 13 | PASS |
| Band V | 16QAM | 4182 | 2.14 | 13 | PASS |
| Band V | 16QAM | 4233 | 2.58 | 13 | PASS |

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## 2.2. Test Plots for QPSK

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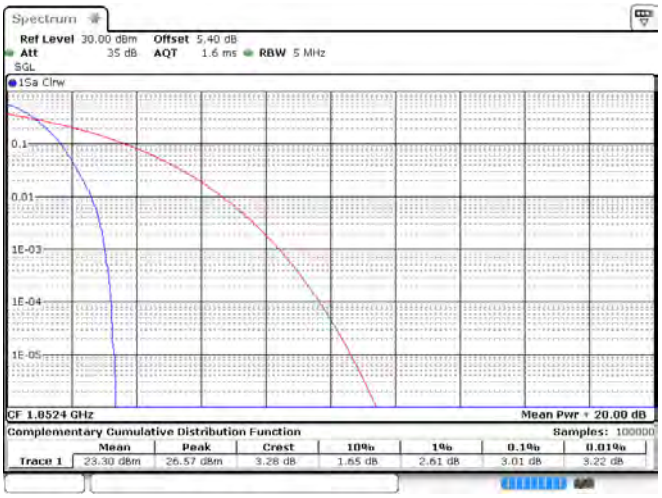
|  |



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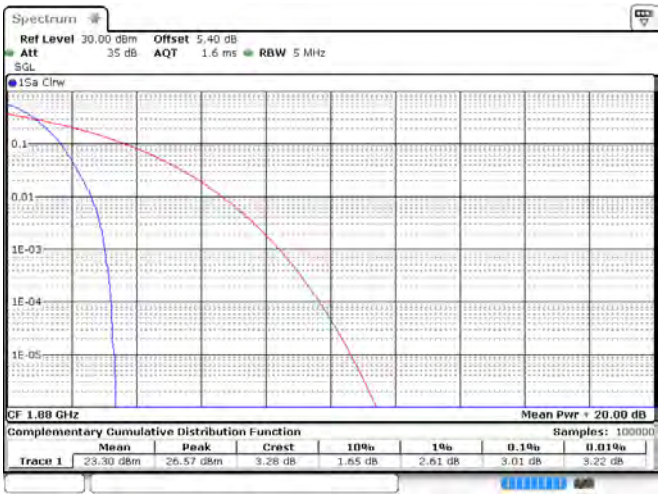
|  |



| Band II_9538 |
|---|

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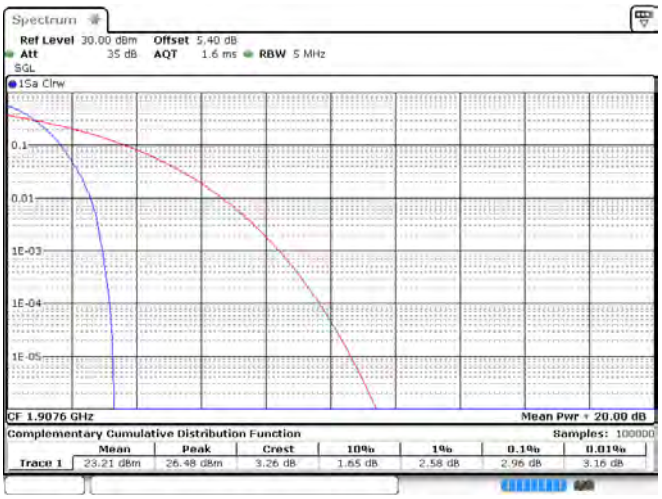


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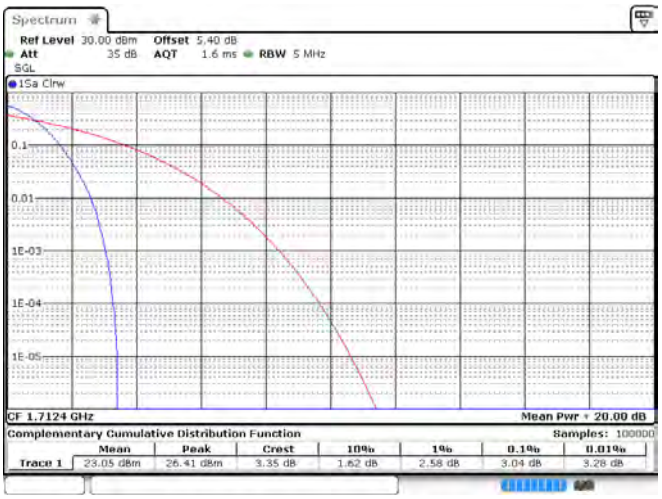


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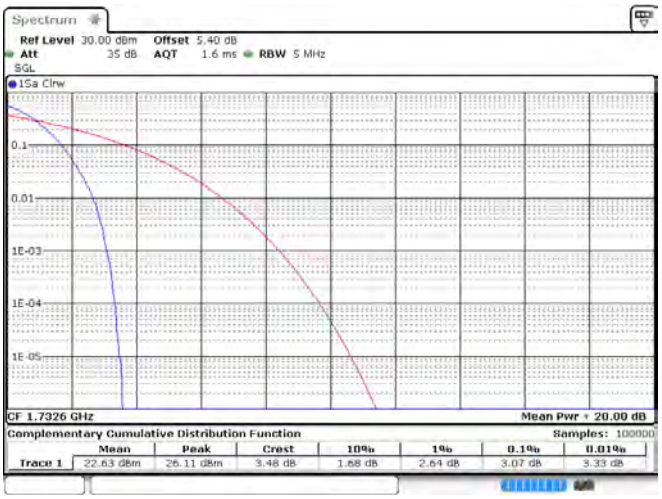


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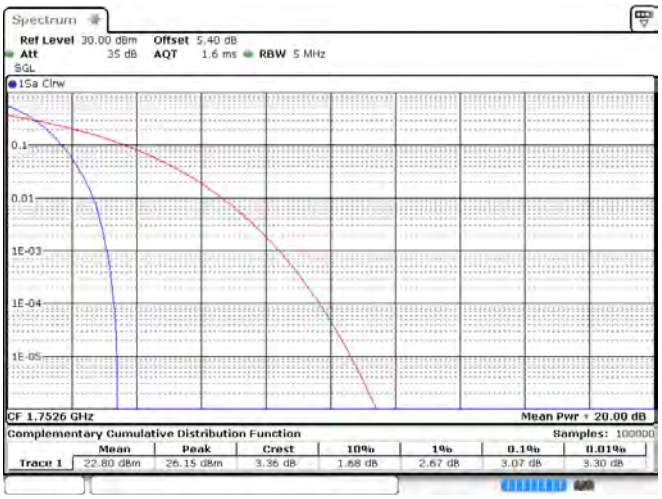


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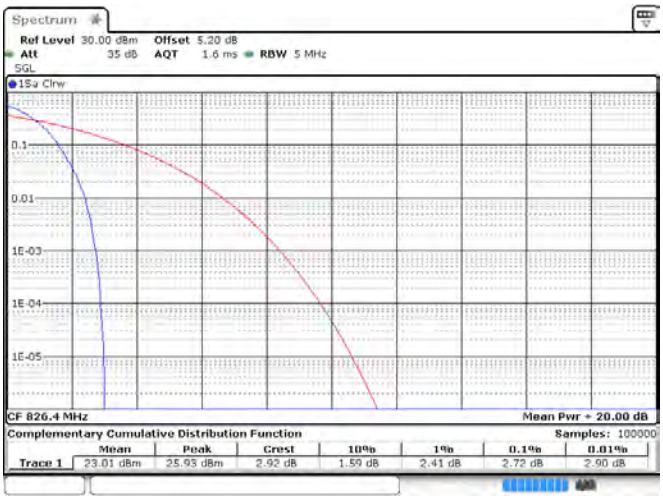


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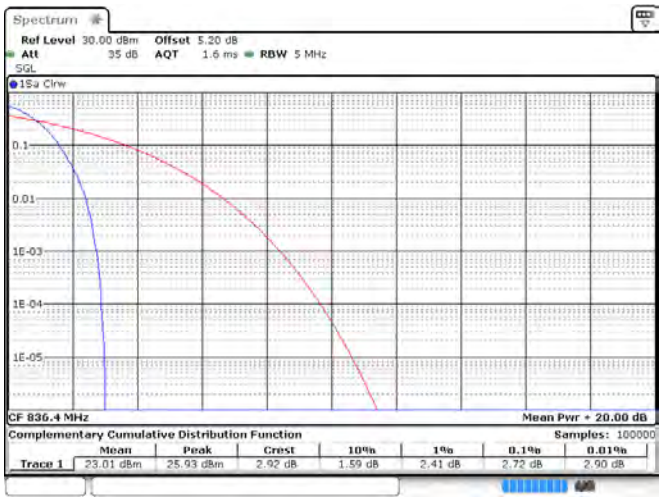


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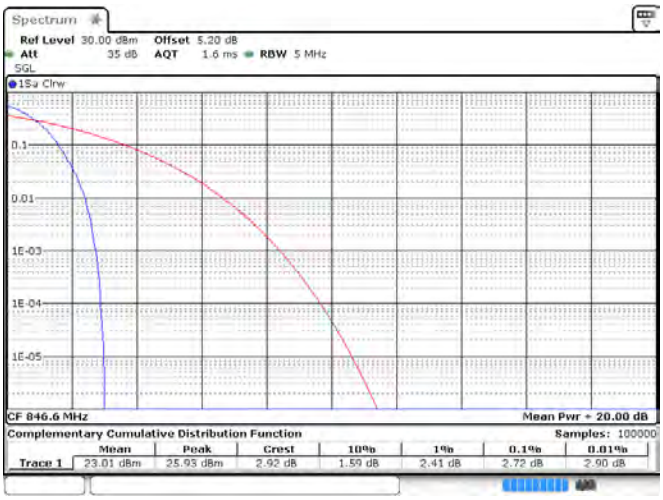


## 2.3. Test Plots for 16QAM

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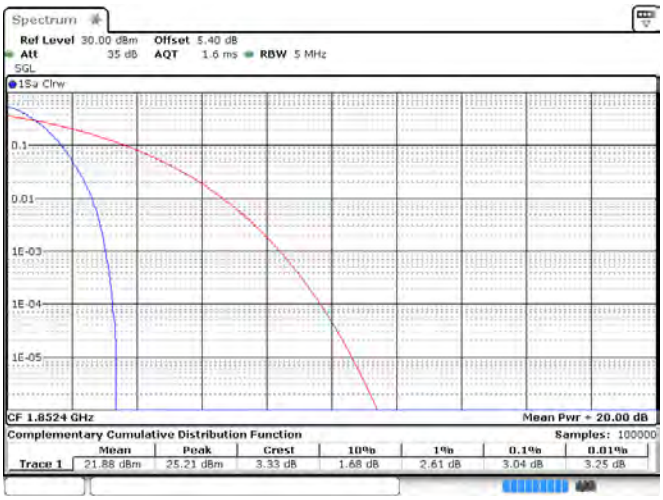


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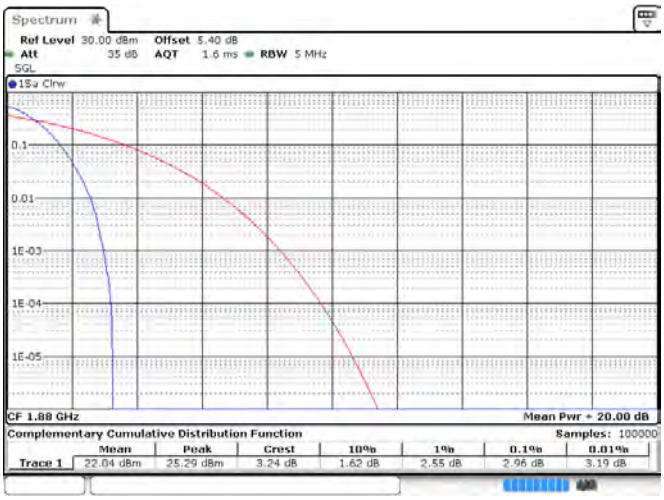
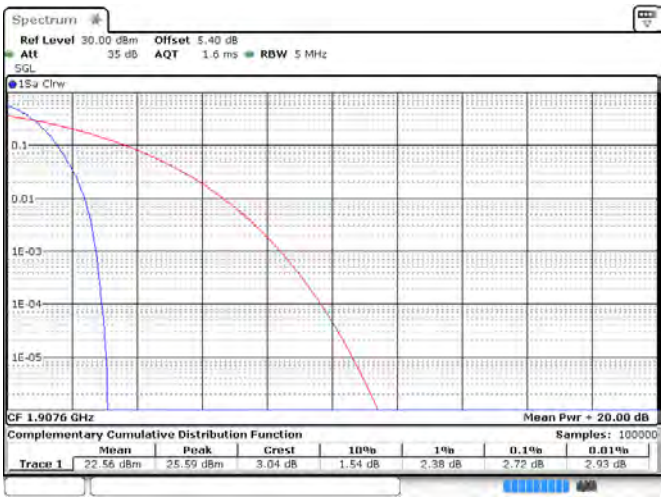



Band II_9538

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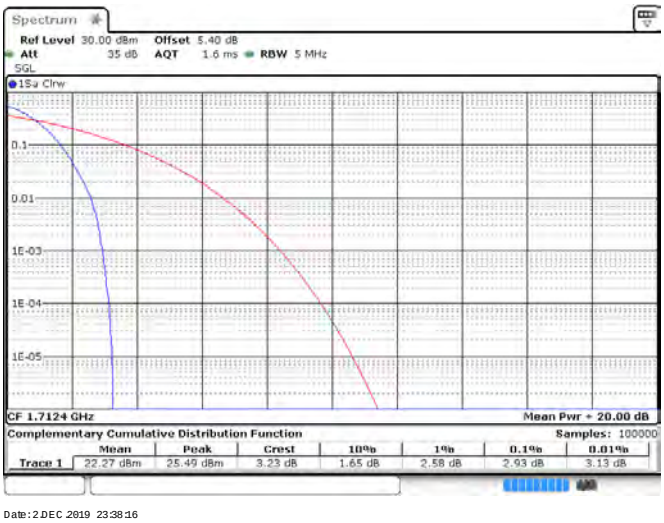
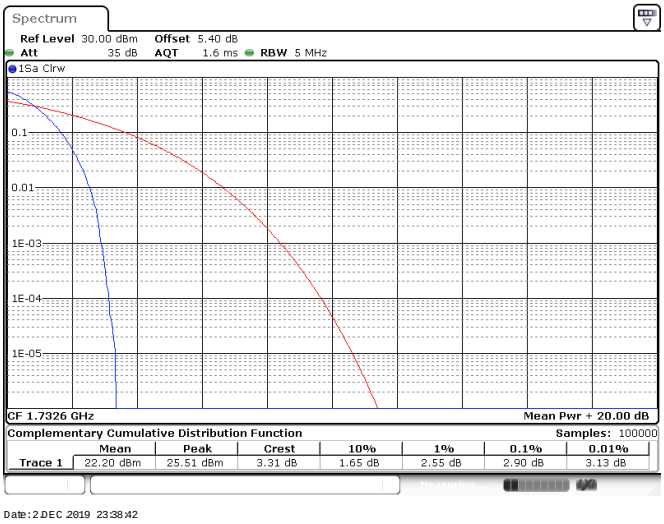



Band IV_1413

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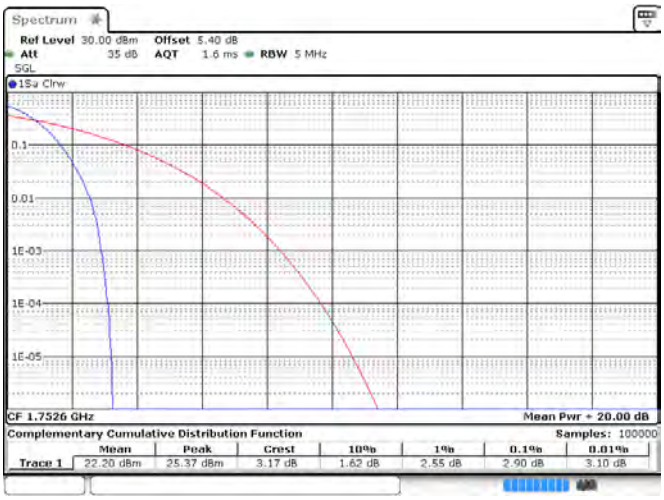


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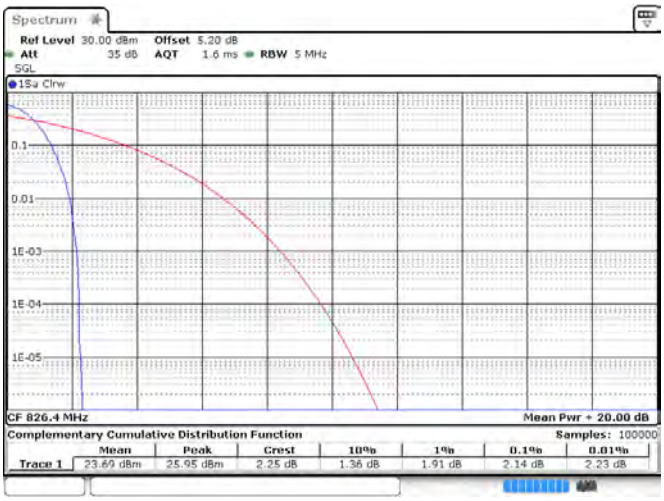


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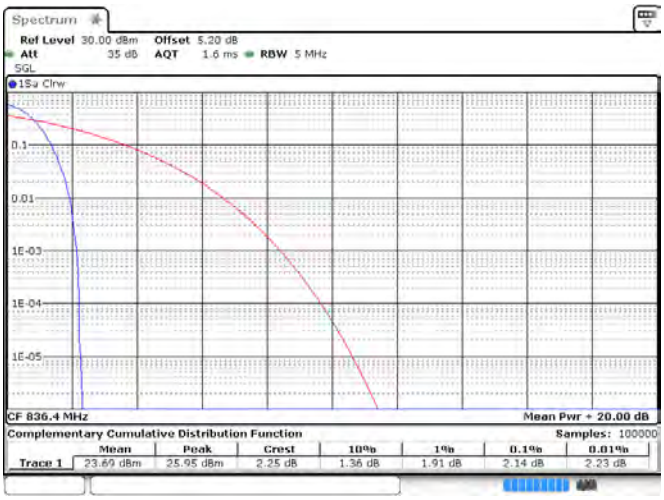
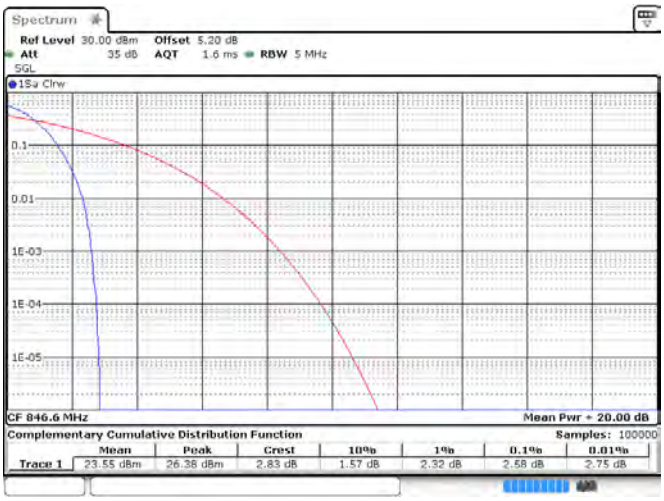



Date: 3.DEC 2019 23:32:16

Band V_4233




Date: 3.DEC 2019 23:32:29

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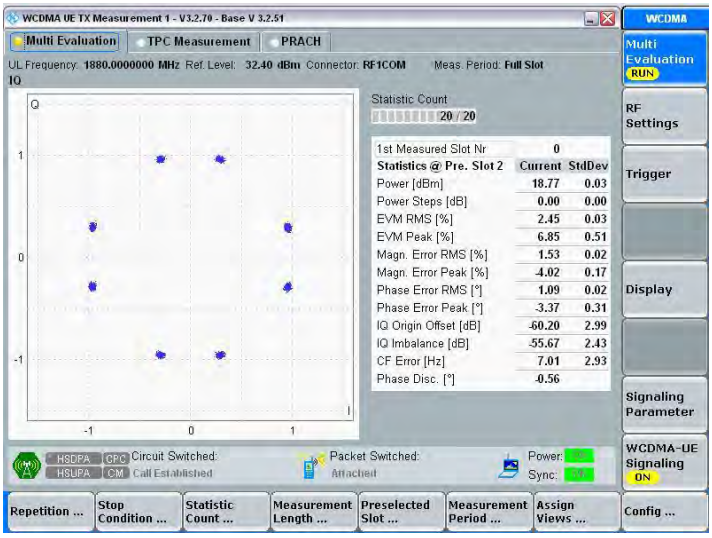
# 3. Modulation Characteristics

## 3.1. Test Band = WCDMA Band II

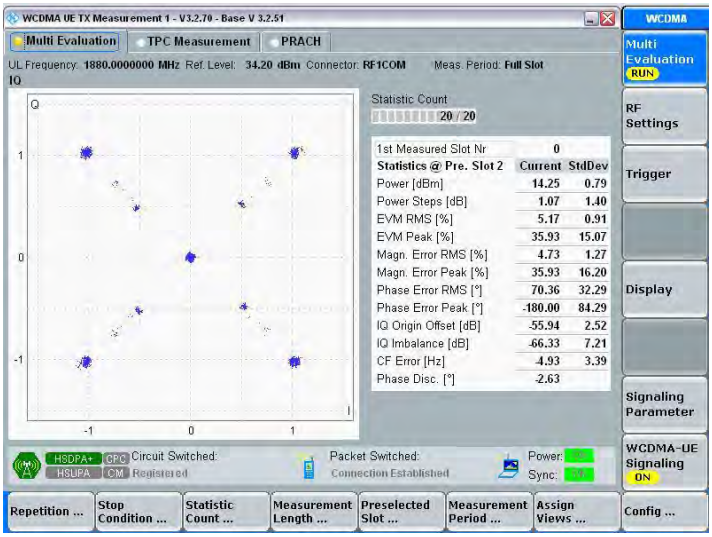
### 3.1.1. Test Mode = UMTS/TM1

#### 3.1.1.1. Test Channel = MCH




### 3.1.2. Test Mode = UMTS/TM2

#### 3.1.2.1. Test Channel = MCH

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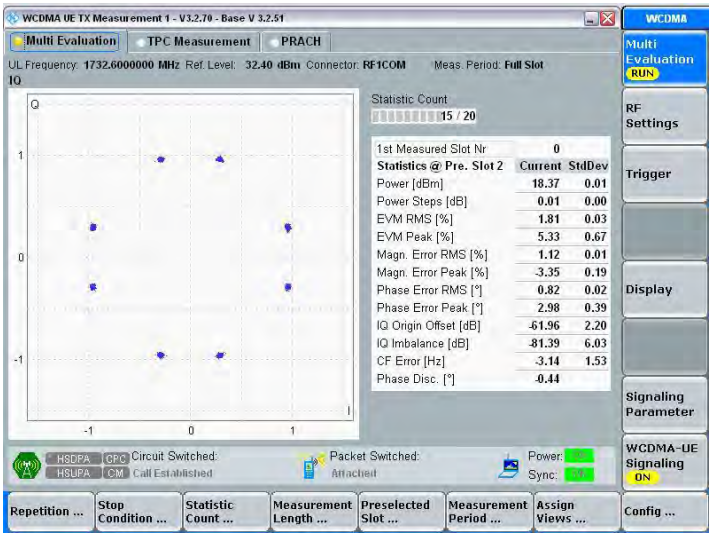
## 3.2. Test Band = WCDMA Band IV

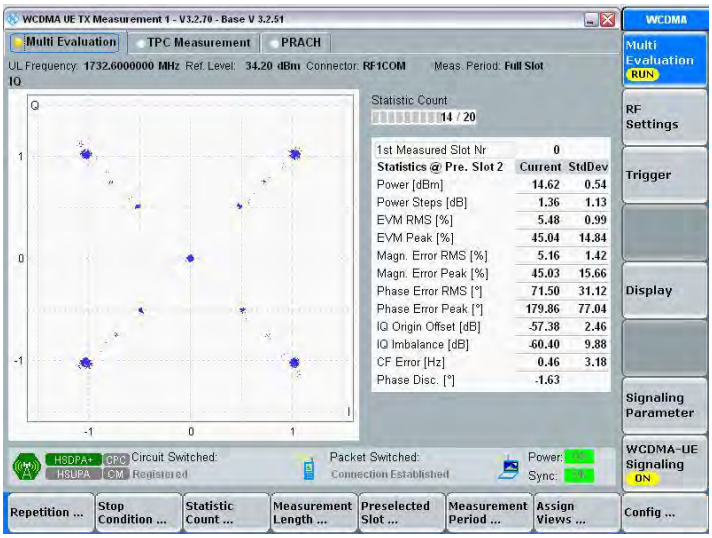
### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH




### 3.2.2. Test Mode = UMTS/TM2

#### 3.2.2.1. Test Channel = MCH

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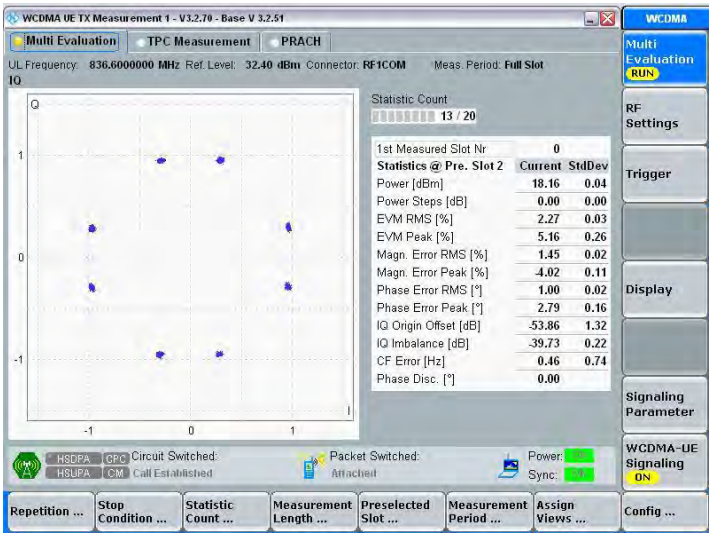
## 3.3. Test Band = WCDMA Band V

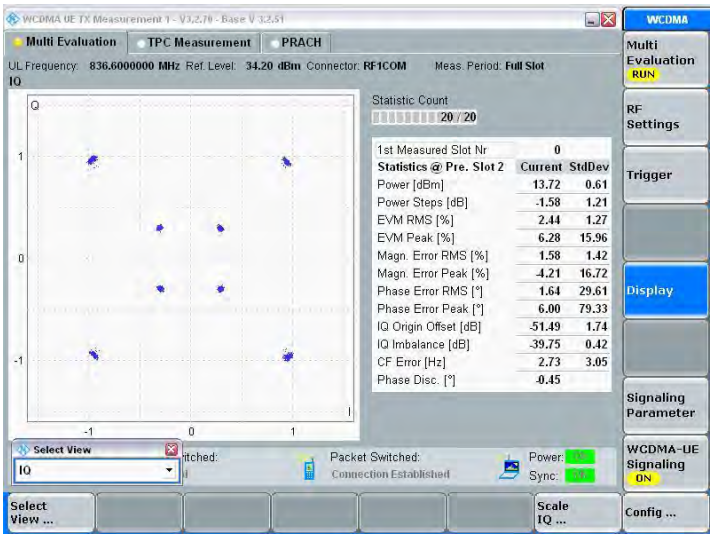
### 3.3.1. Test Mode = UMTS/TM1

#### 3.3.1.1. Test Channel = MCH




### 3.3.2. Test Mode = UMTS/TM2

#### 3.3.2.1. Test Channel = MCH

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# 4. 26dB Bandwidth and Occupied Bandwidth

## 4.1. Test Result

| BAND | Modulation | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|---|---|---|---|---|---|---|
| Band II | QPSK | 9262 | 4167.9 | 4739 | --- | PASS |
| Band II | QPSK | 9400 | 4167.9 | 4725 | --- | PASS |
| Band II | QPSK | 9538 | 4153.4 | 4739 | --- | PASS |
| Band II | 16QAM | 9262 | 4167.9 | 4739 | --- | PASS |
| Band II | 16QAM | 9400 | 4167.9 | 4754 | --- | PASS |
| Band II | 16QAM | 9538 | 4167.9 | 4754 | --- | PASS |
| Band IV | QPSK | 1312 | 4153.4 | 4725 | --- | PASS |
| Band IV | QPSK | 1413 | 4167.9 | 4725 | --- | PASS |
| Band IV | QPSK | 1513 | 4153.4 | 4725 | --- | PASS |
| Band IV | 16QAM | 1312 | 4167.9 | 4739 | --- | PASS |
| Band IV | 16QAM | 1413 | 4167.9 | 4739 | --- | PASS |
| Band IV | 16QAM | 1513 | 4167.9 | 4739 | --- | PASS |
| Band V | QPSK | 4132 | 4153.4 | 4754 | --- | PASS |
| Band V | QPSK | 4182 | 4153.4 | 4725 | --- | PASS |
| Band V | QPSK | 4233 | 4153.4 | 4754 | --- | PASS |
| Band V | 16QAM | 4132 | 4196.8 | 4797 | --- | PASS |
| Band V | 16QAM | 4182 | 4167.9 | 4725 | --- | PASS |
| Band V | 16QAM | 4233 | 4167.9 | 4754 | --- | PASS |

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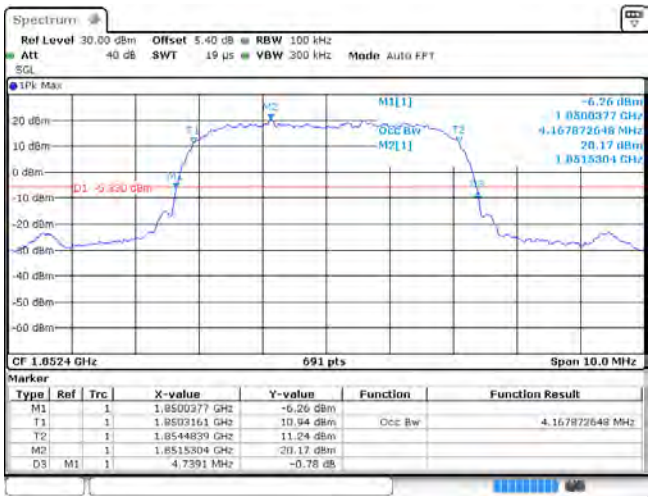
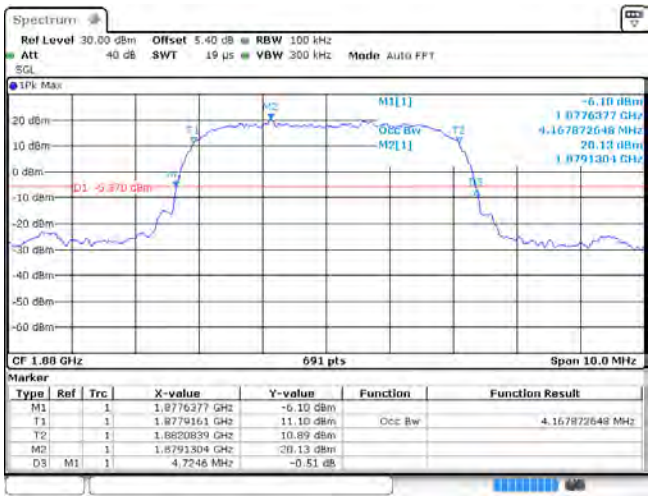
## 4.2. Test Plots for QPSK




Band II_9262

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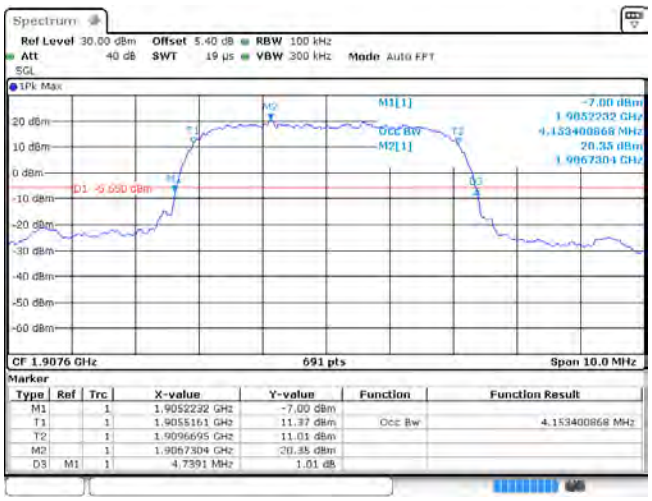


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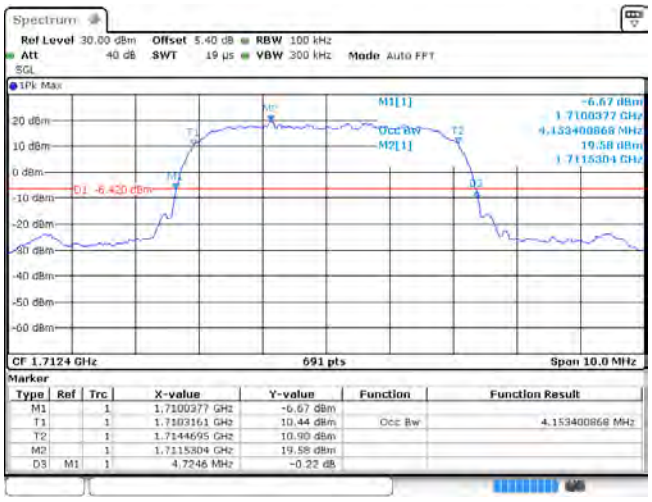


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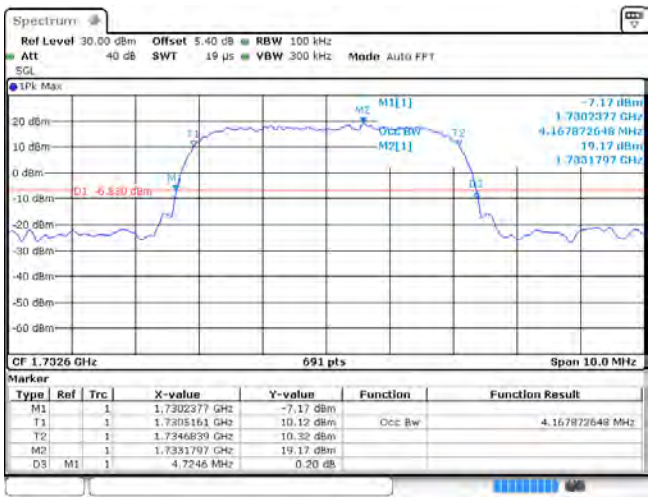


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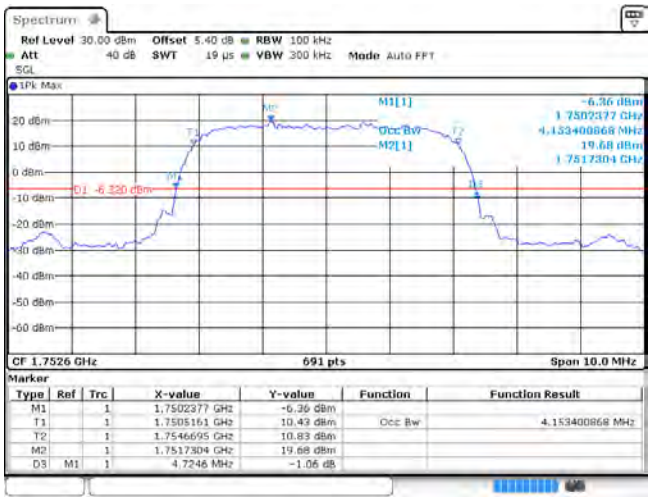


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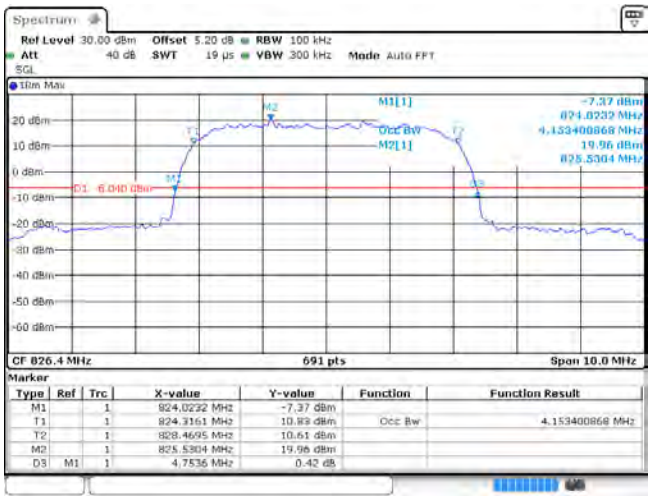


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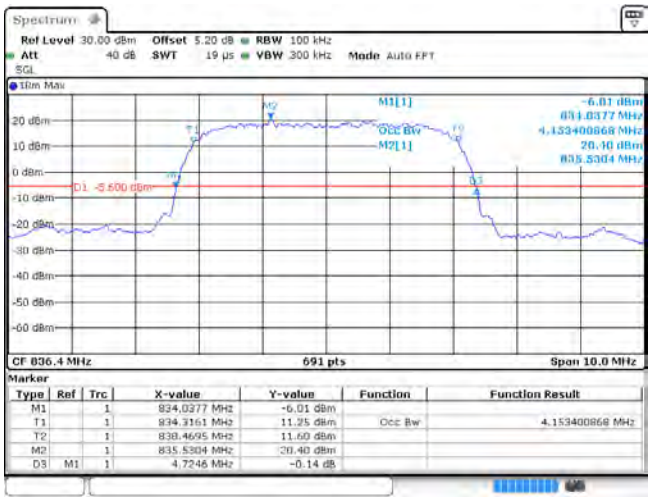


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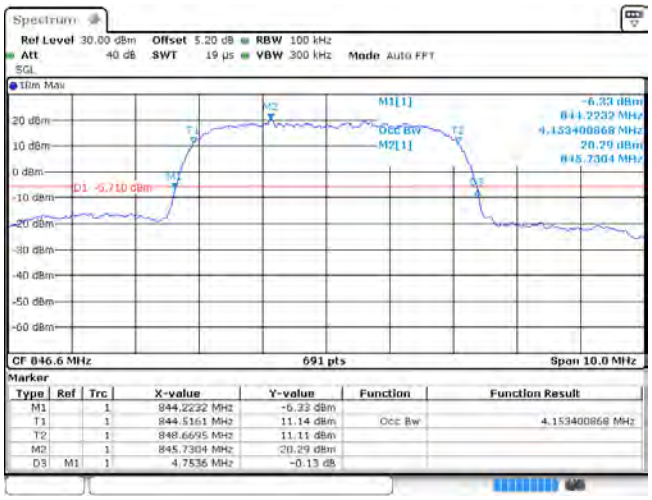


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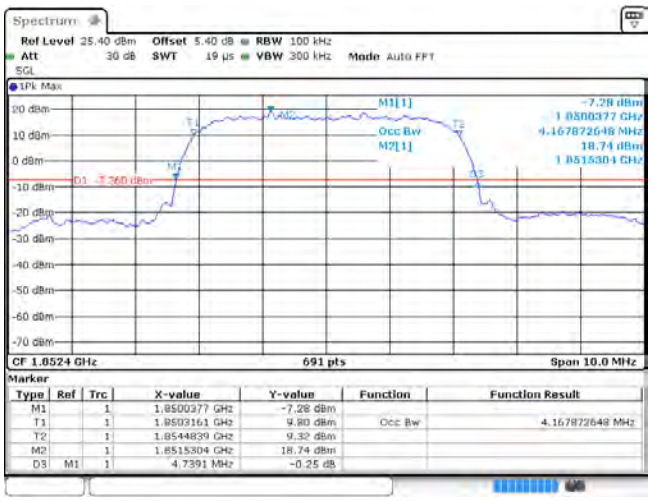
## 4.3. Test Plots for 16QAM

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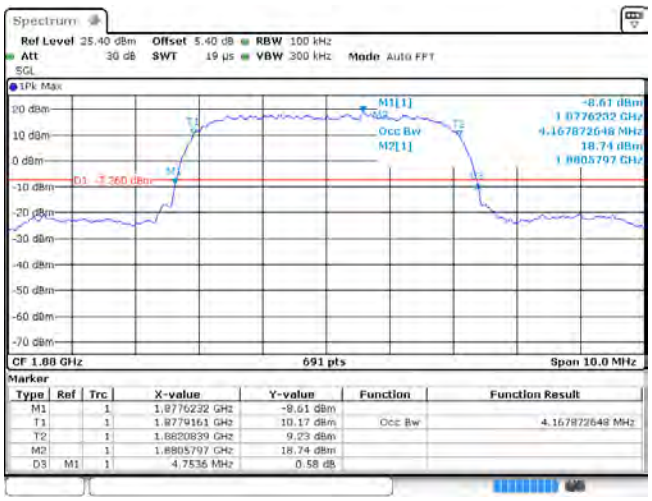


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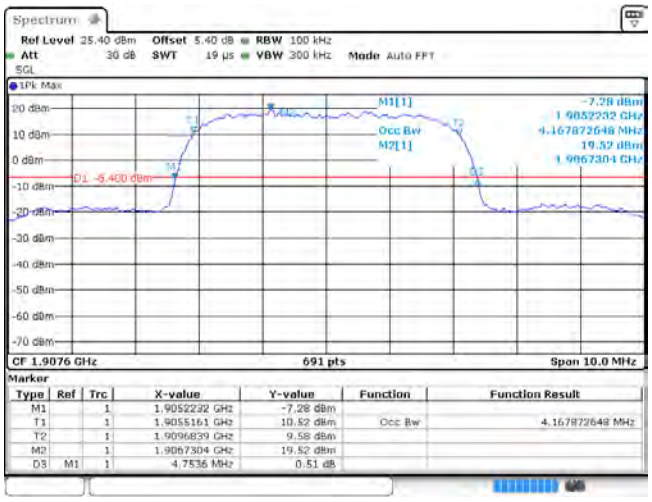


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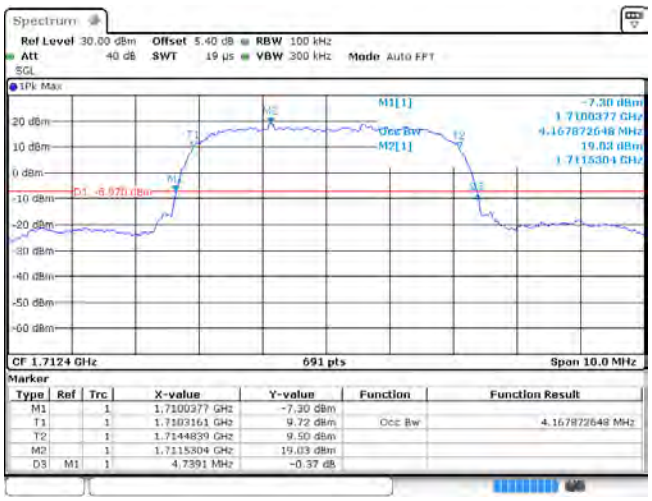


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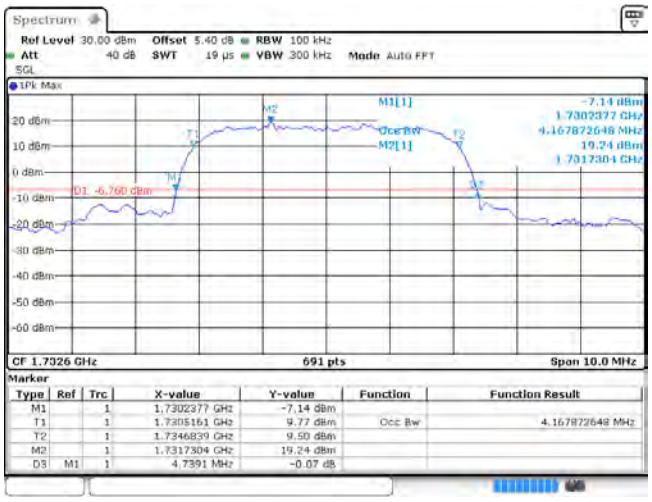


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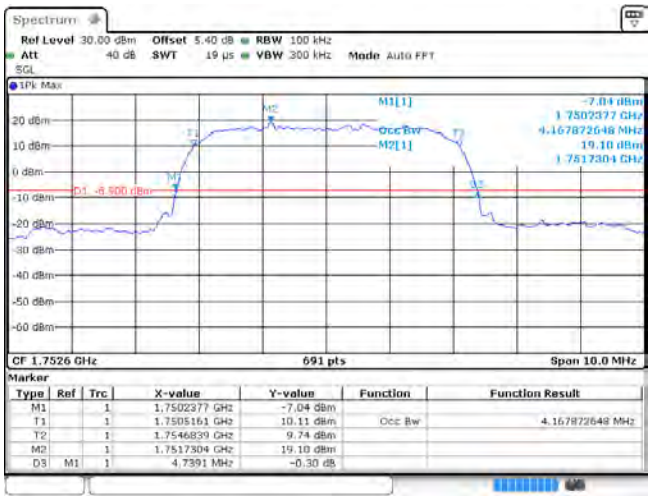


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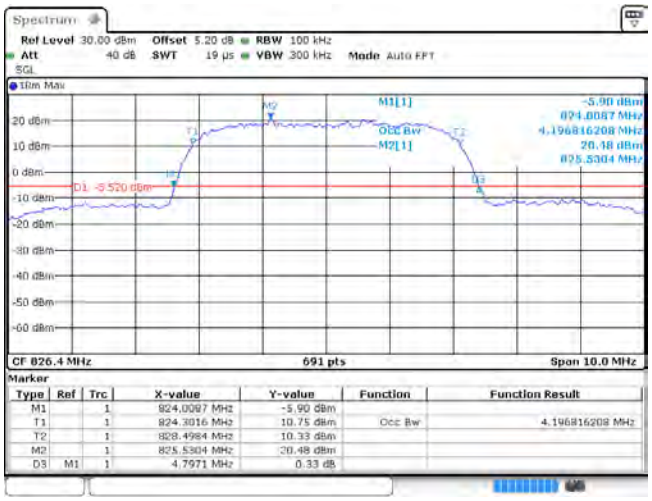


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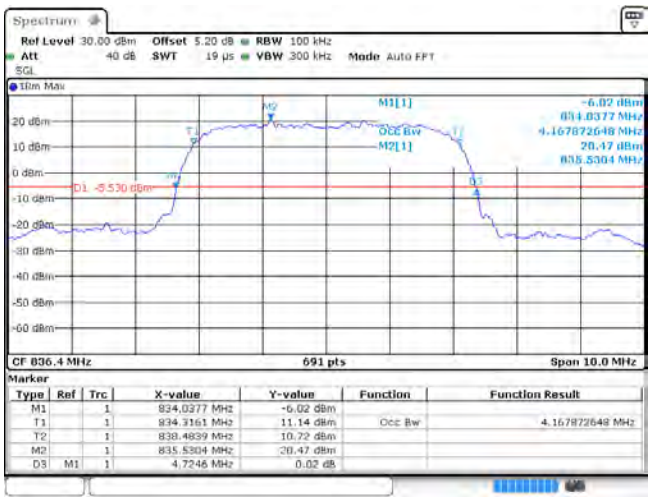


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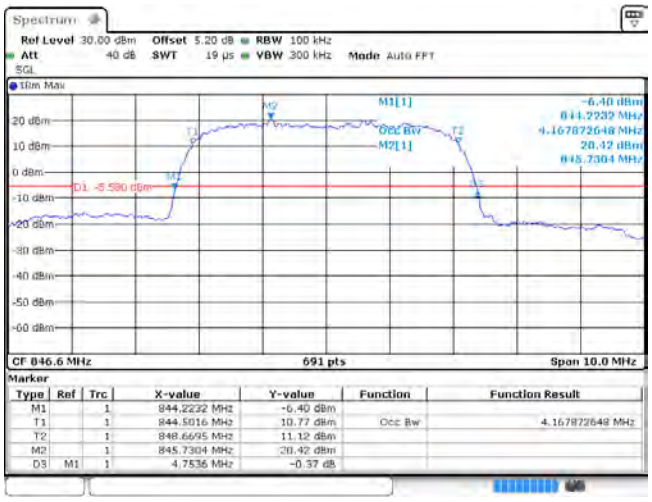


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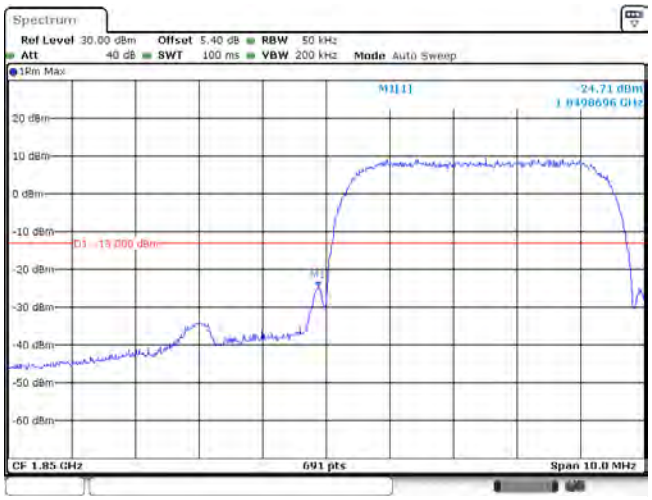
# 5. Band Edge Compliance

## 5.1. Test Plots for QPSK

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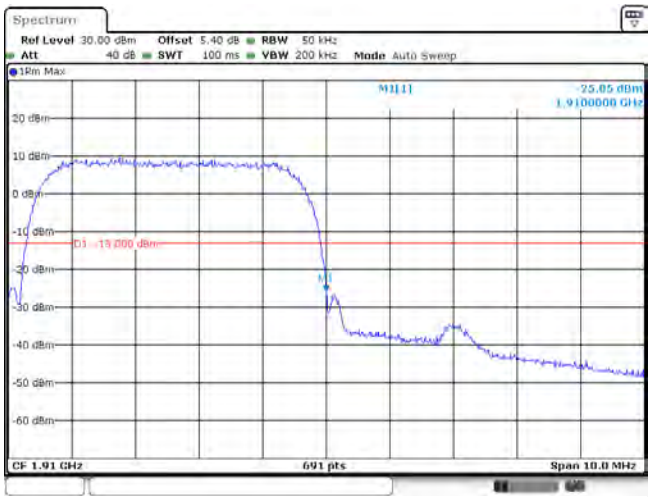


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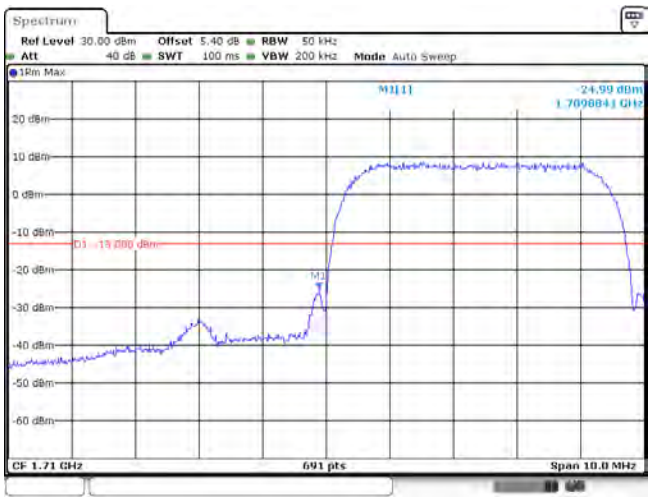


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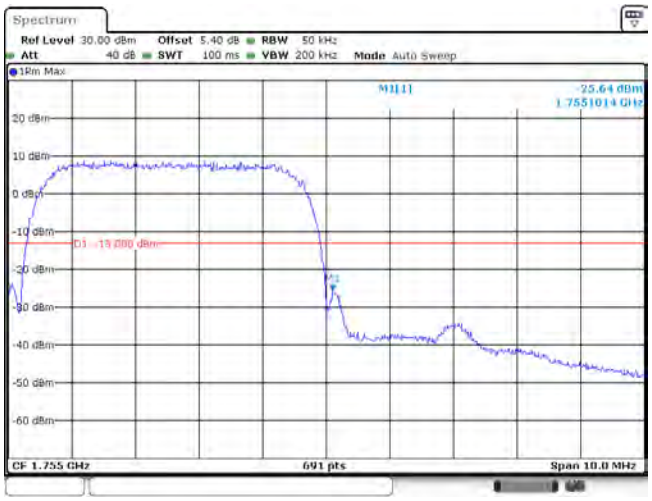


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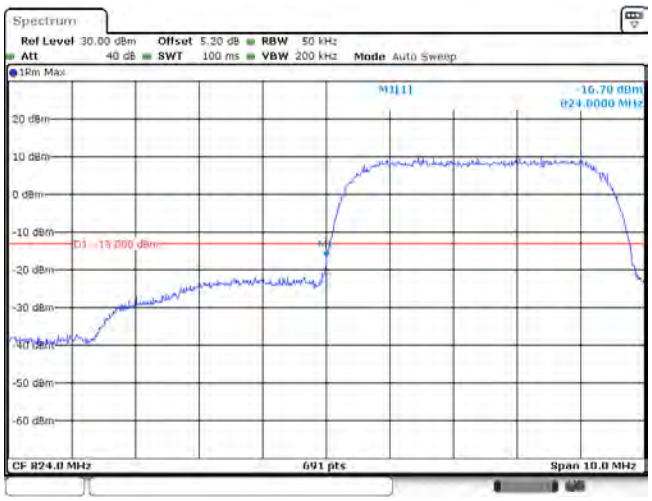


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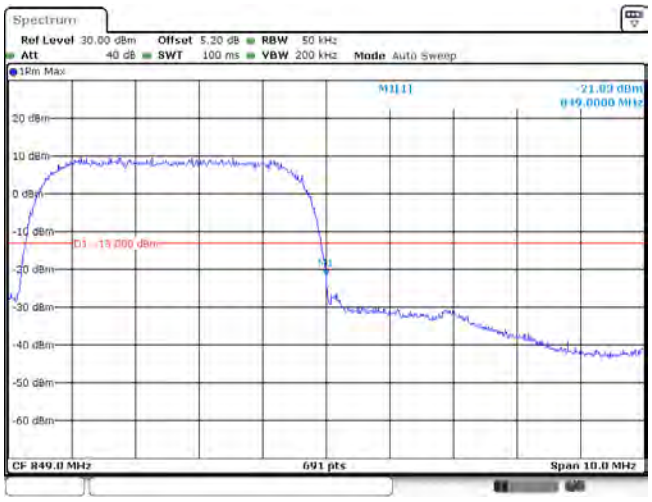


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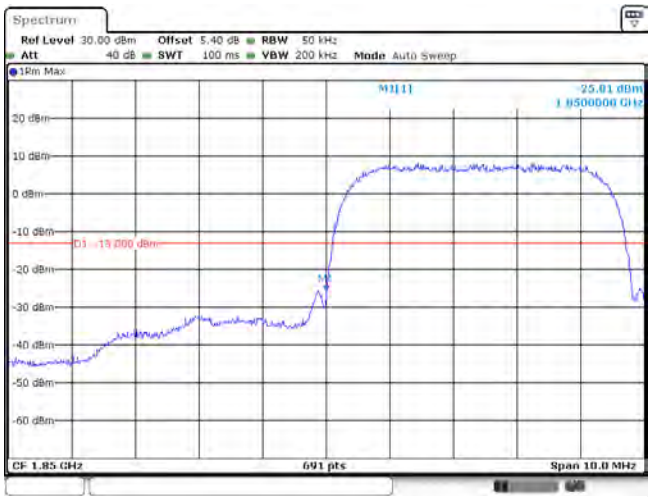


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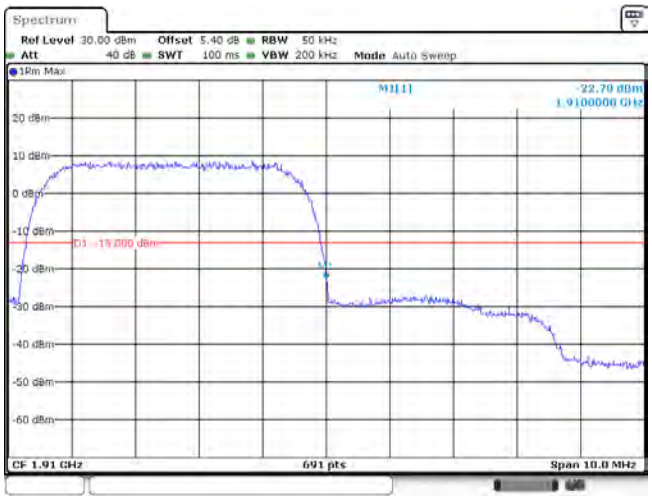


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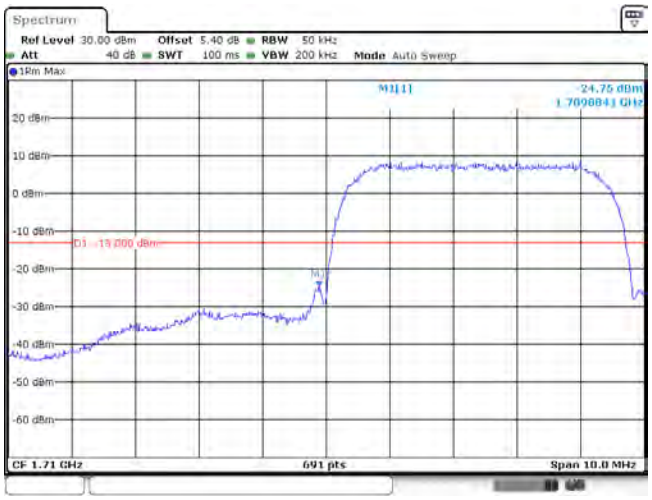


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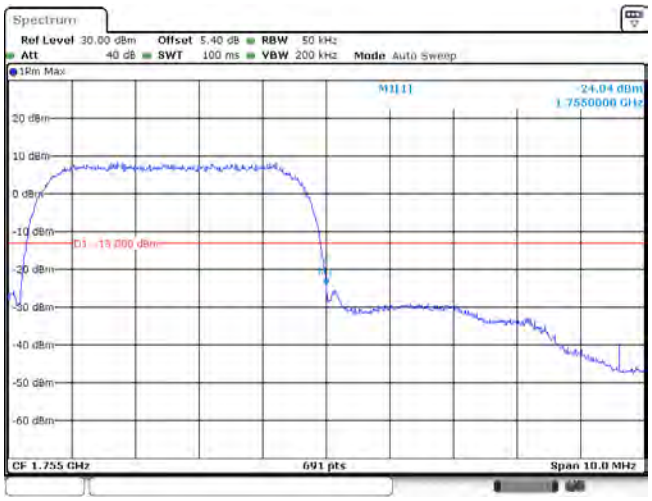


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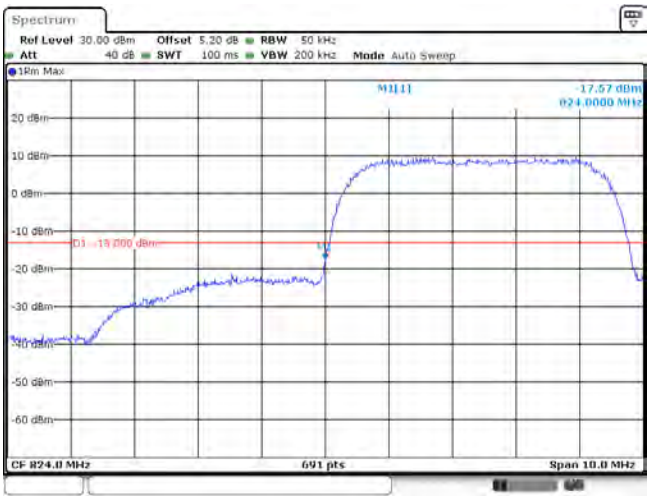


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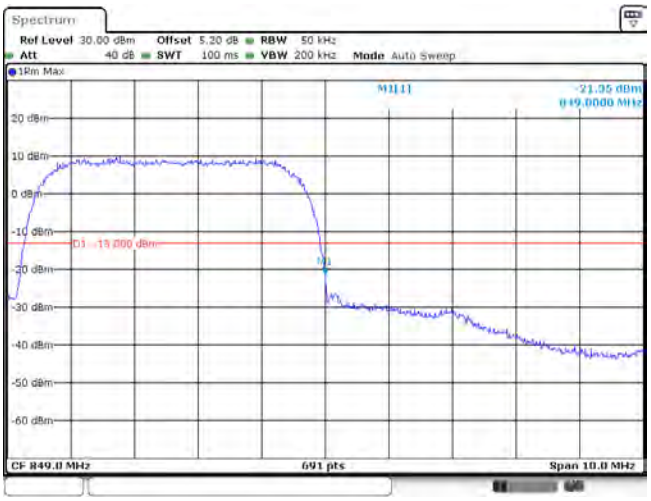


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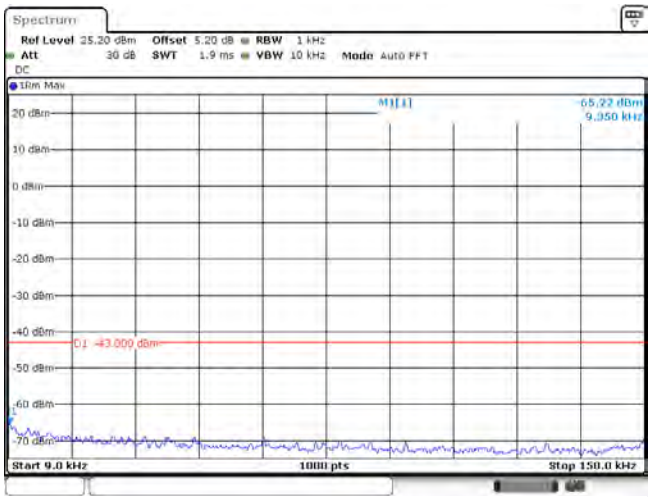
# 6. Spurious Emission at Antenna Terminal

Remark1: 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.

Remark2: only the worst case data displayed in this report.

## 6.1. Test Plots for QPSK

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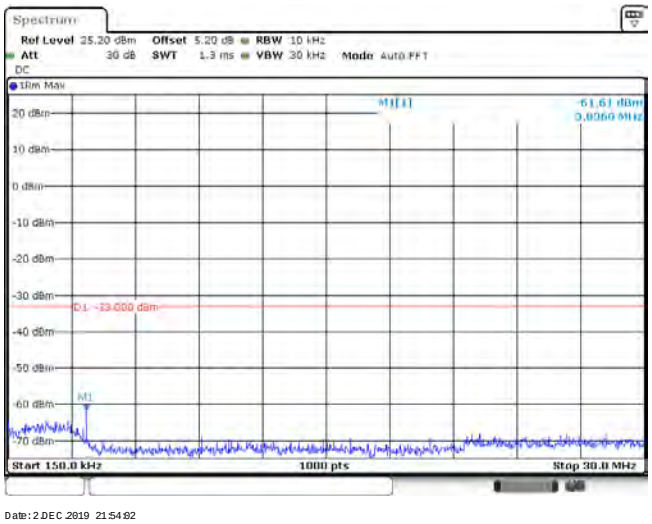


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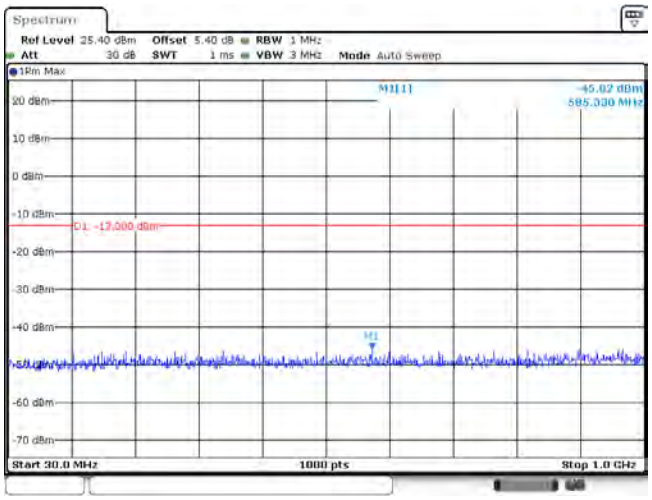


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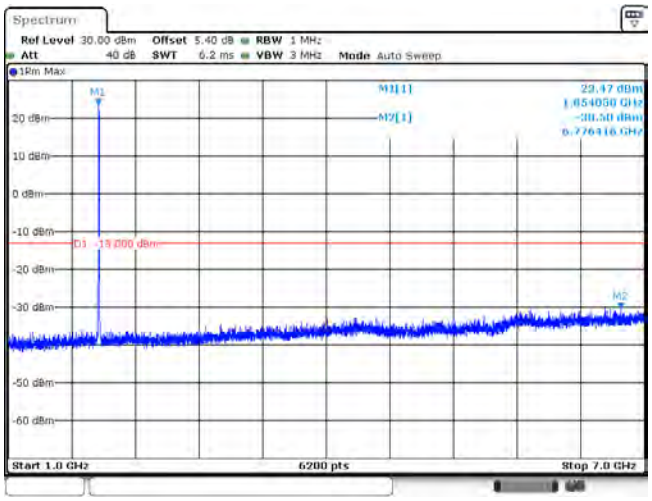


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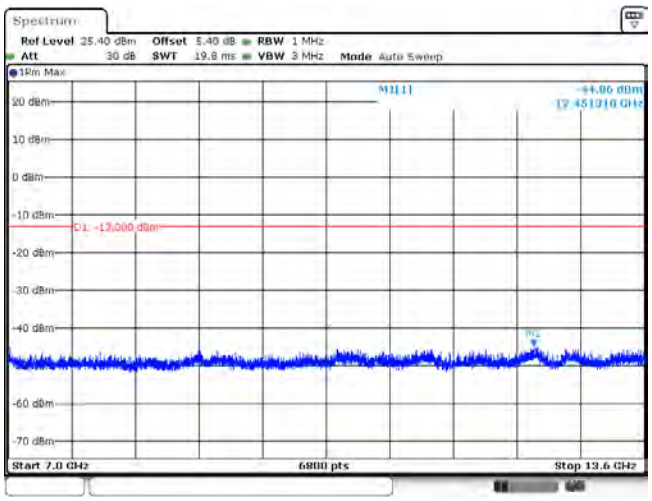


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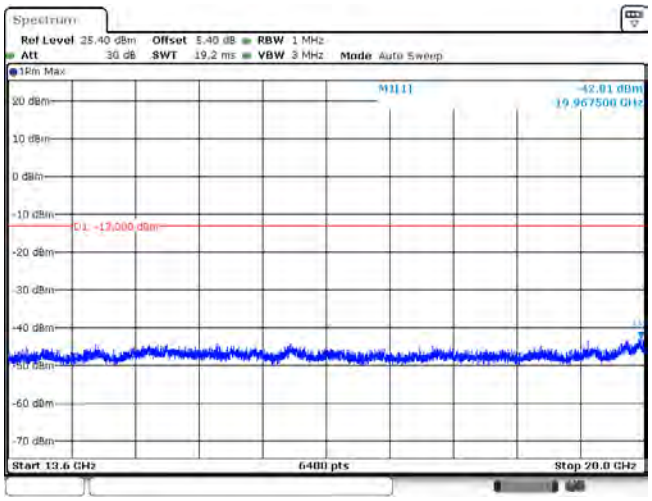


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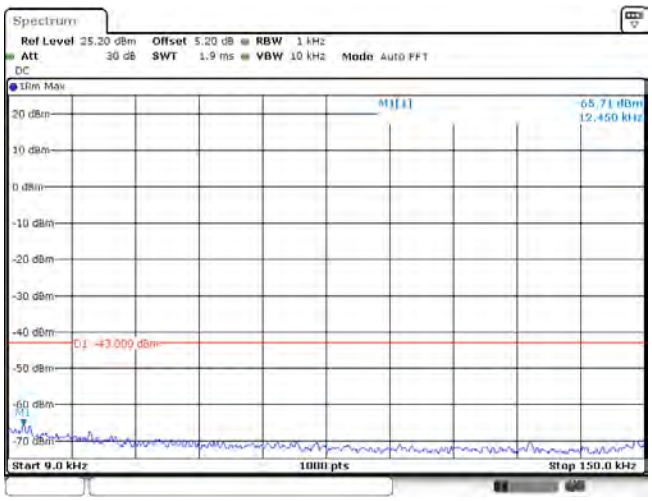


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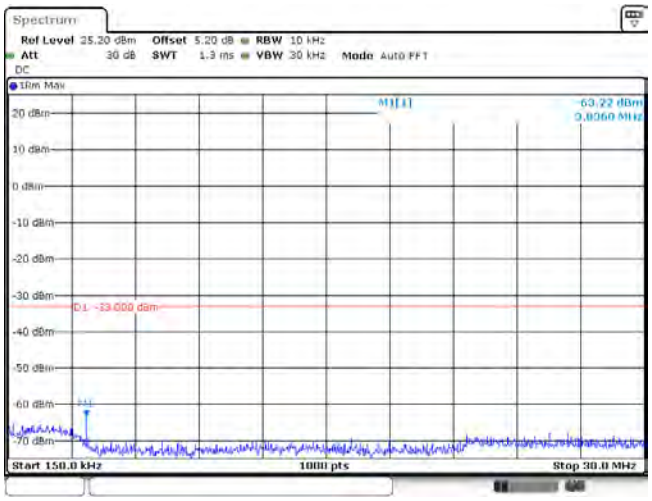


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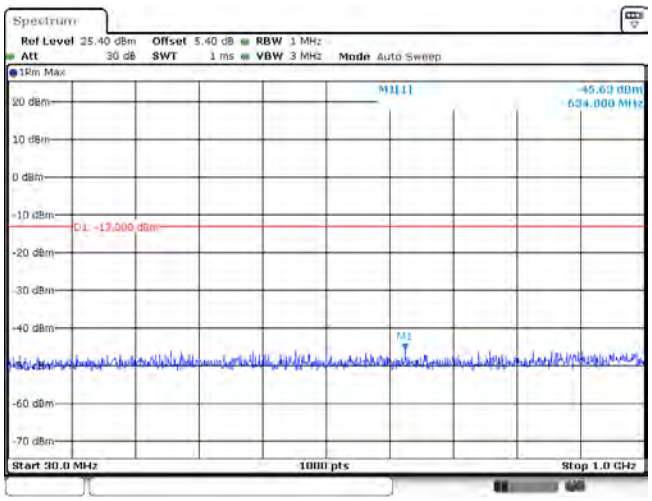


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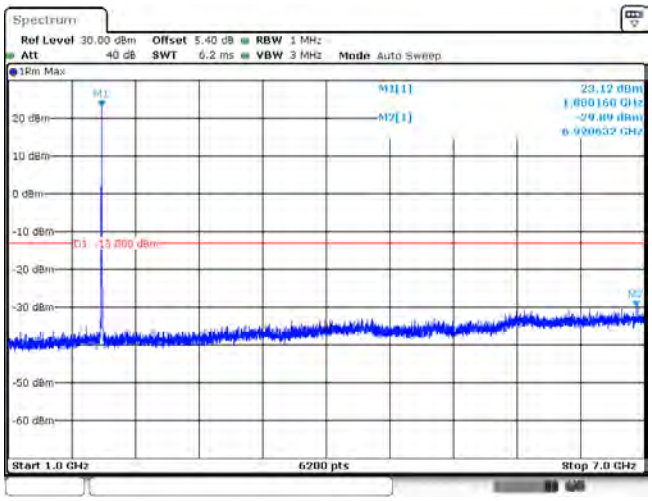


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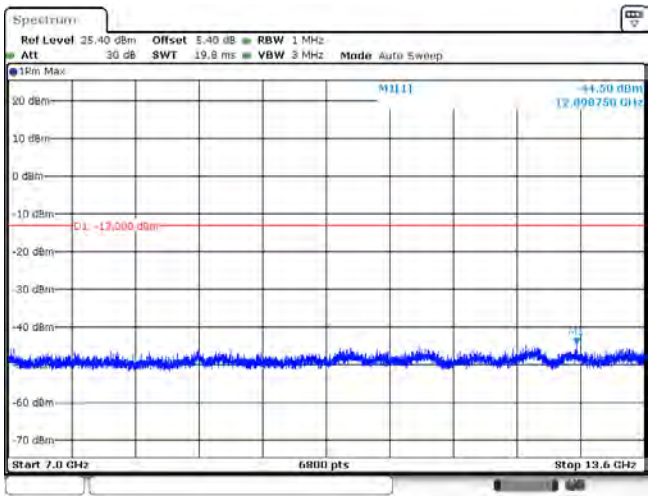


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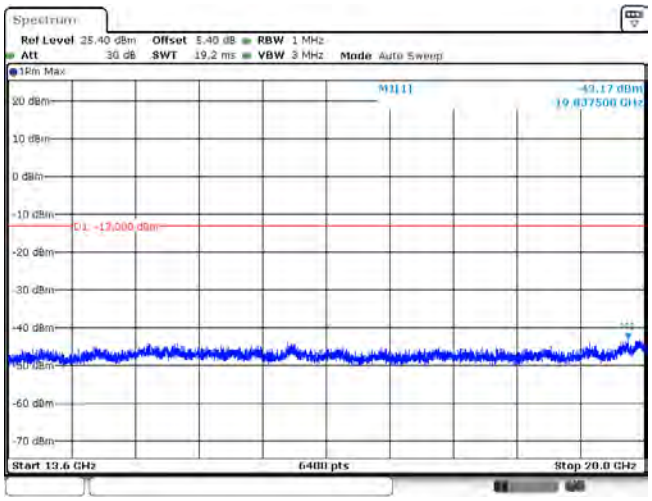


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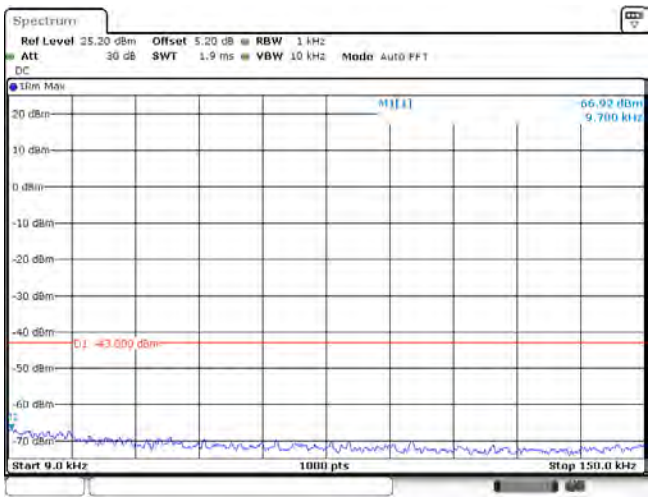


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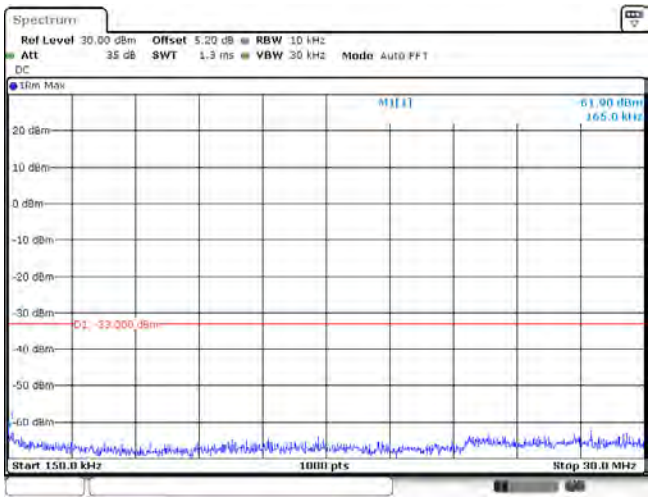


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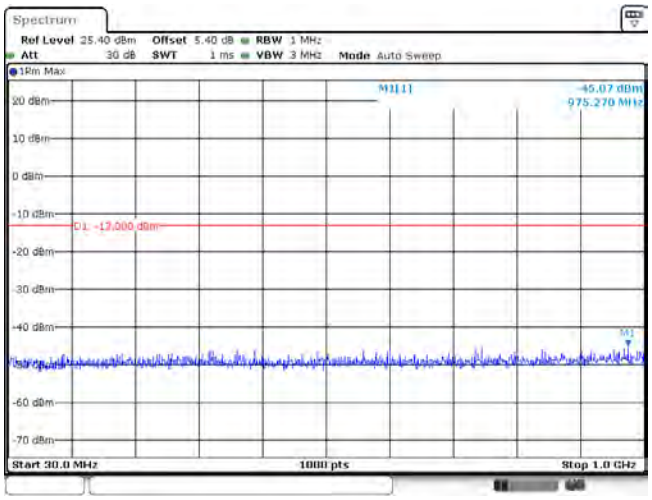


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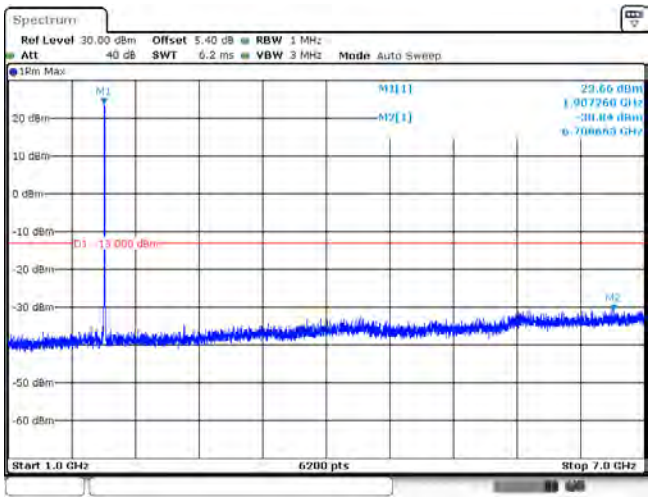


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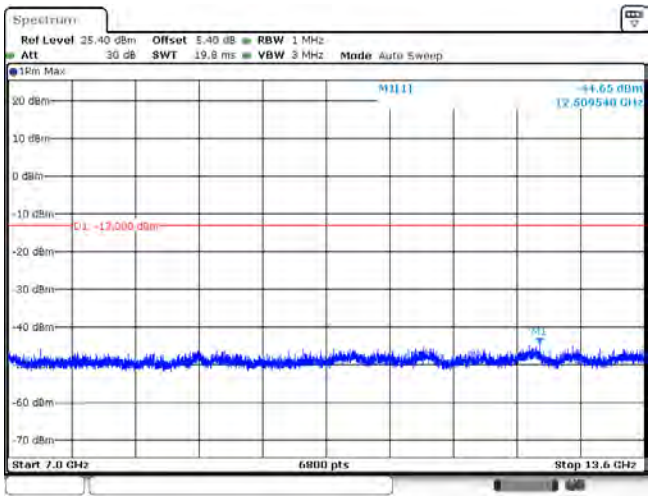


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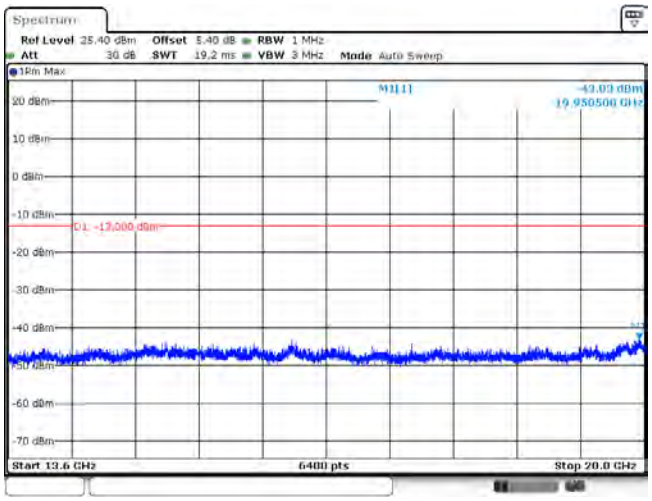


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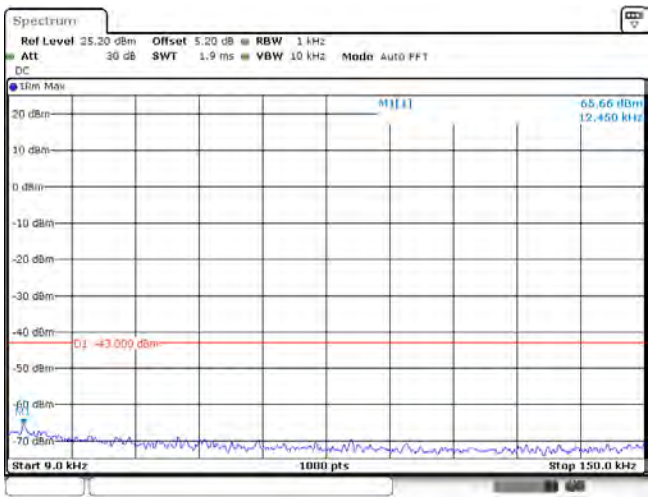


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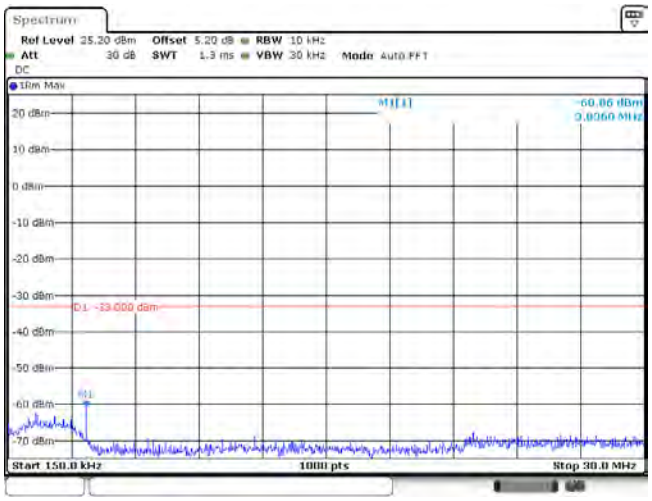


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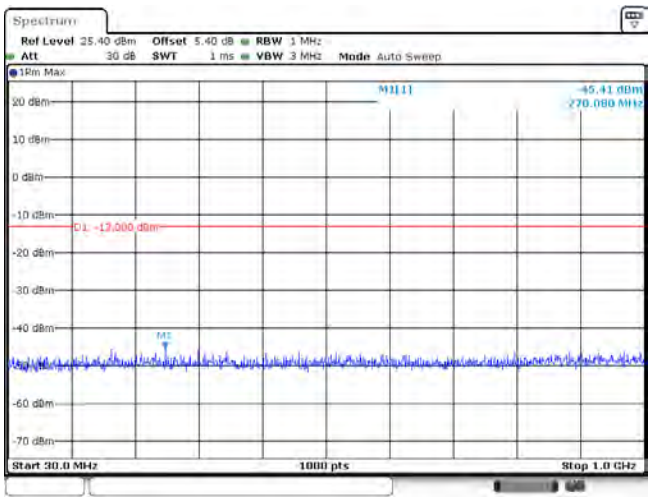


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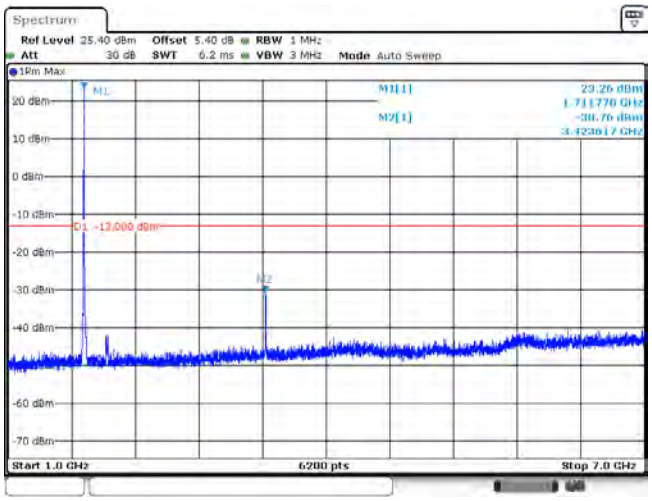


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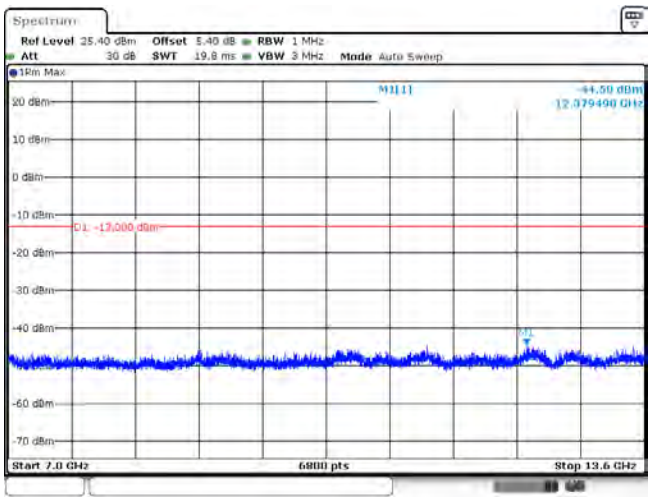


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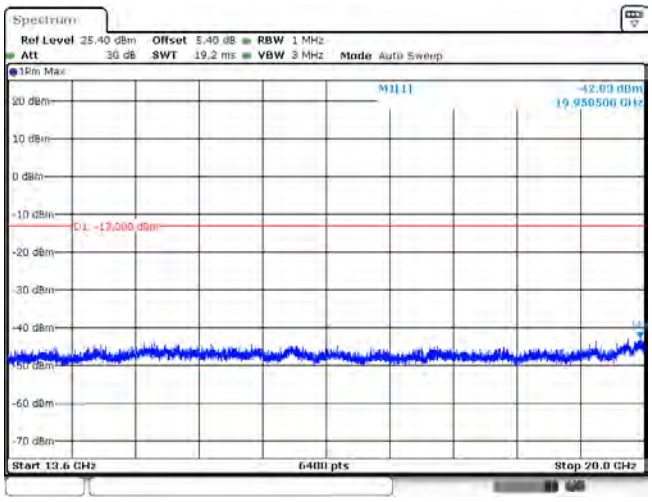


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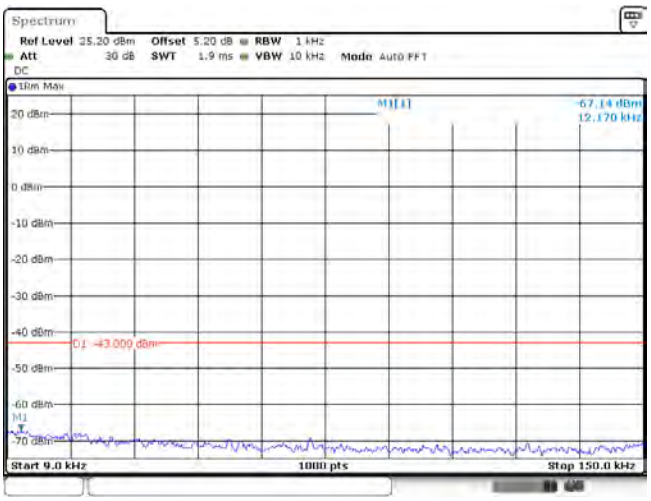


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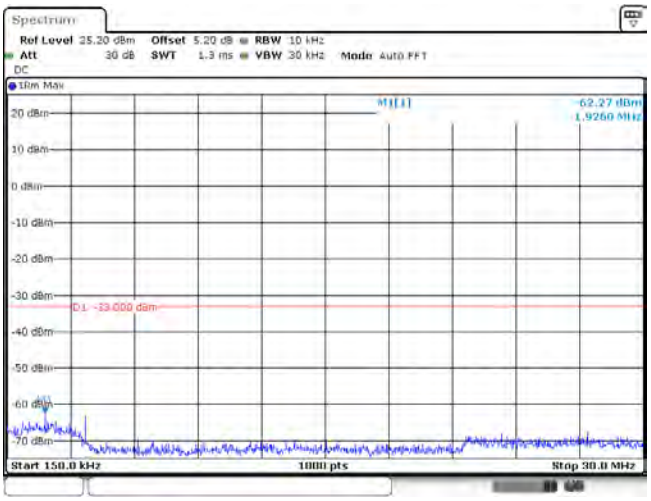


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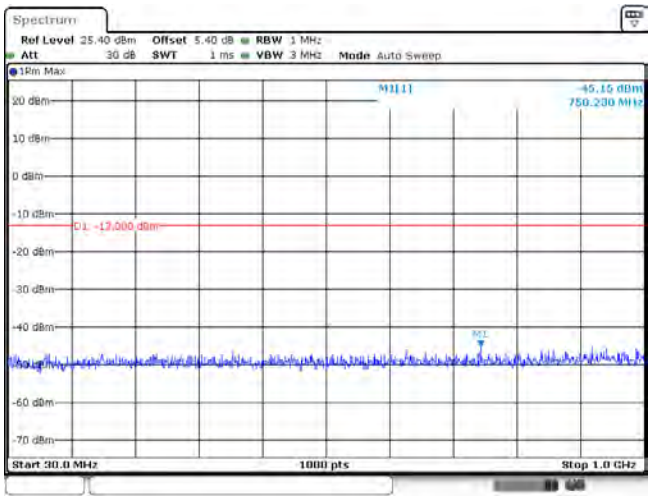


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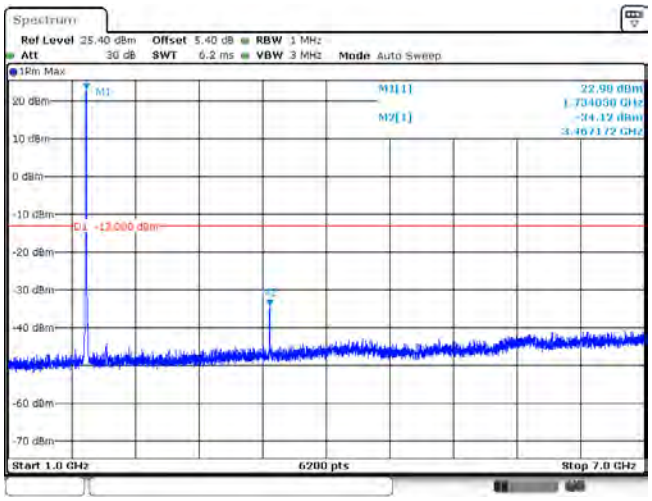


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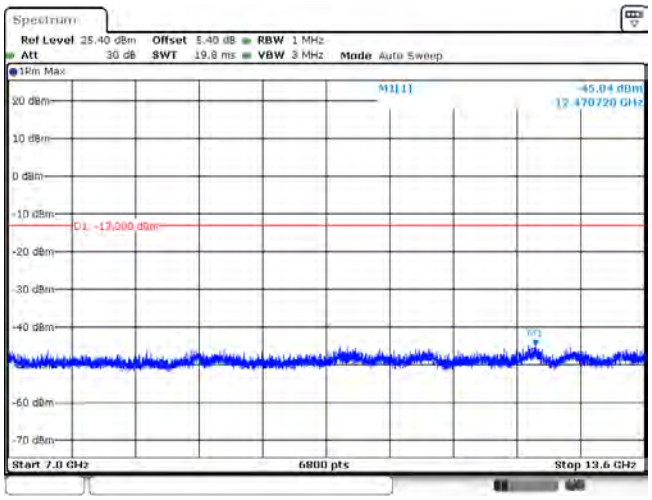


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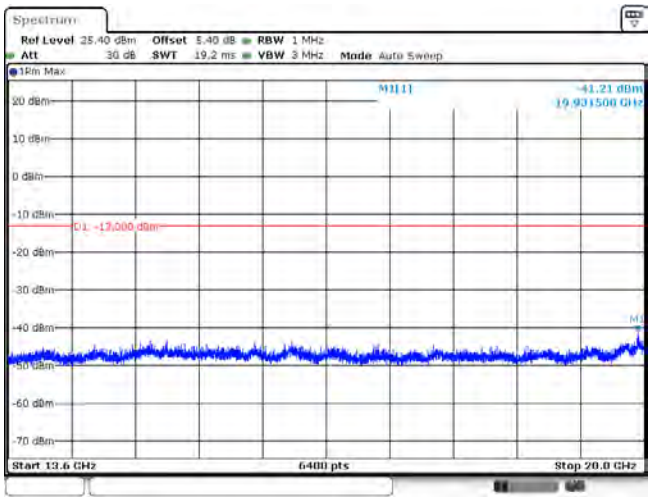


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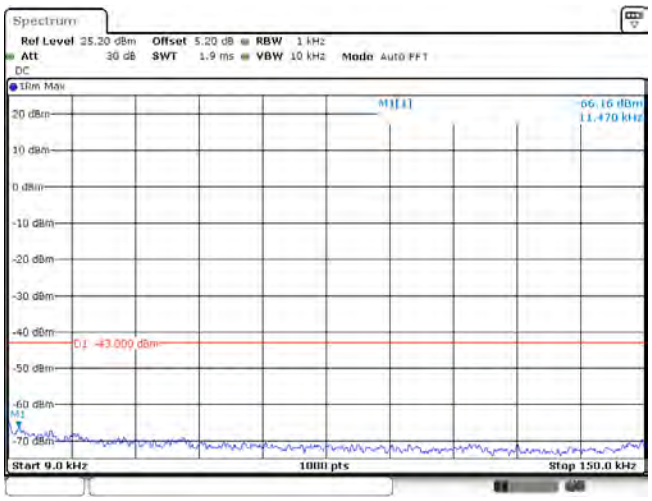


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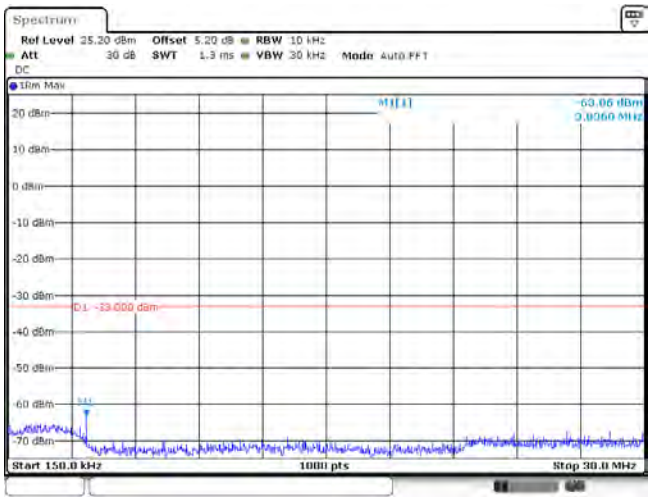


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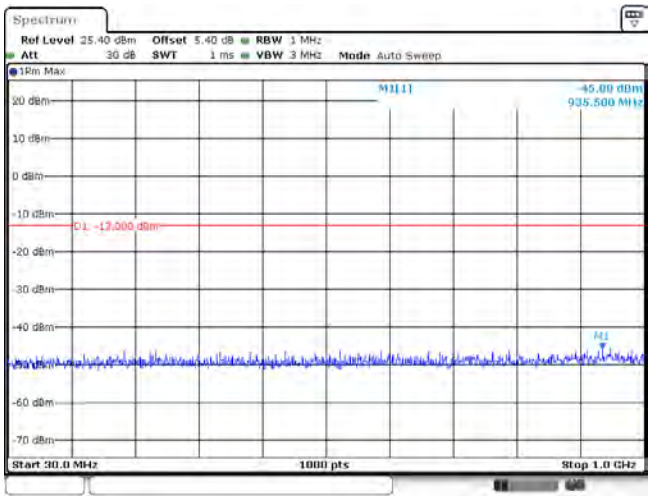


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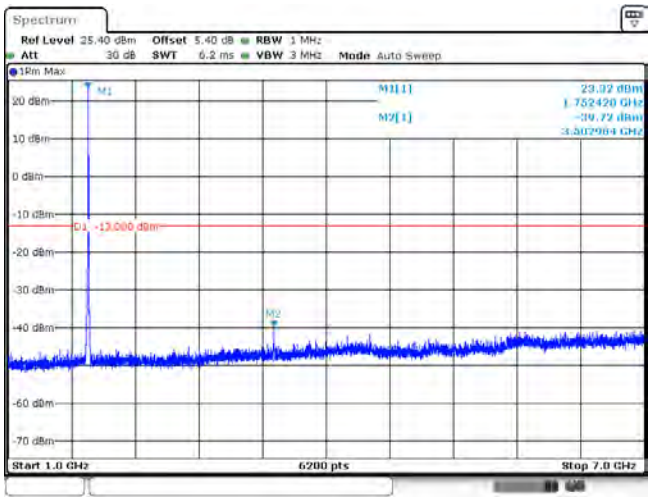


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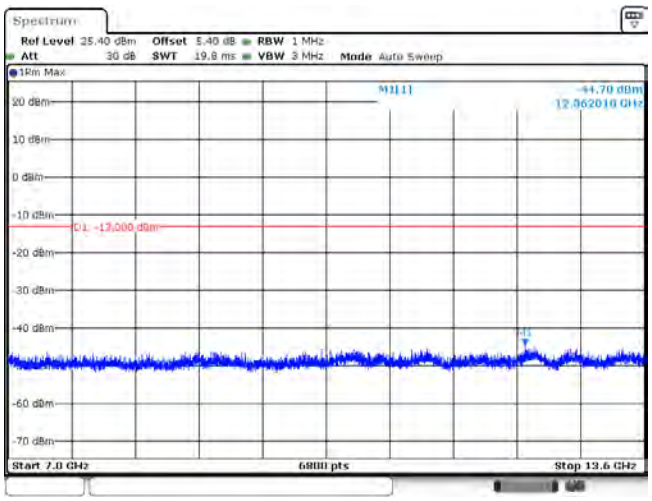


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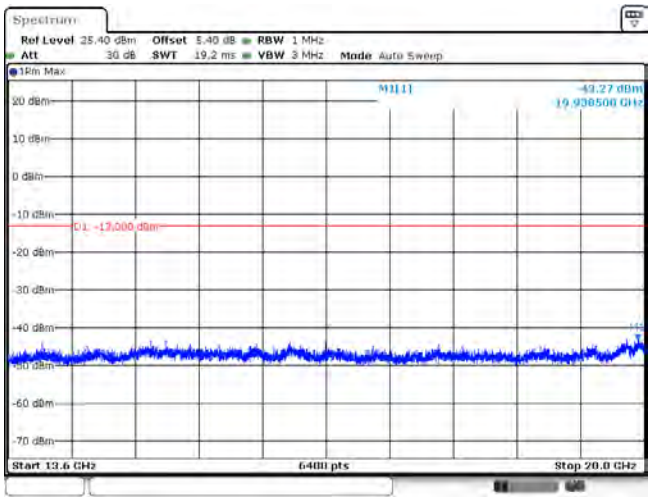


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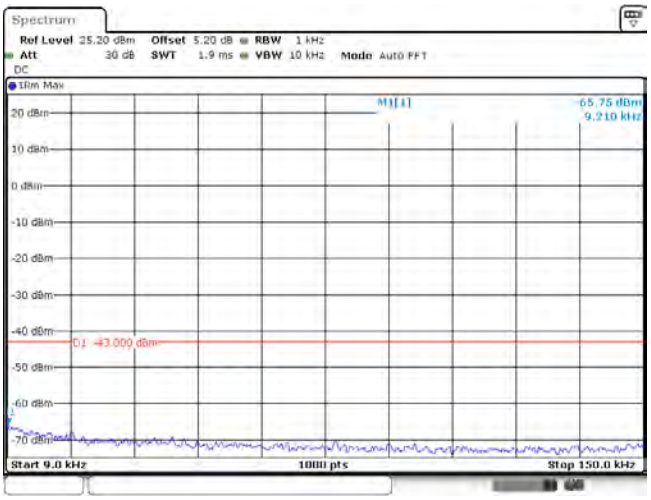


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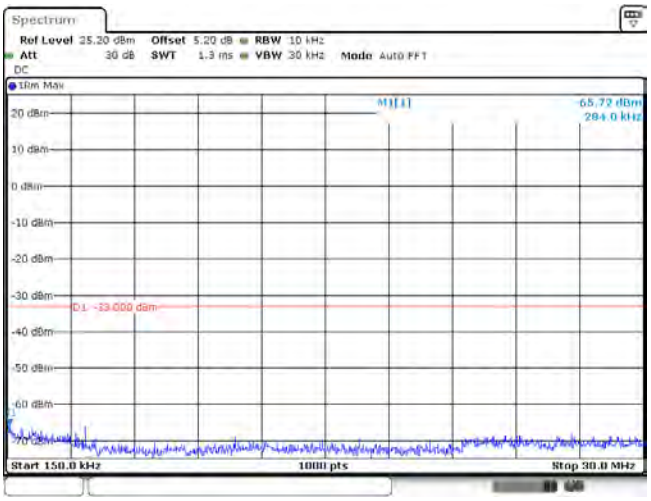


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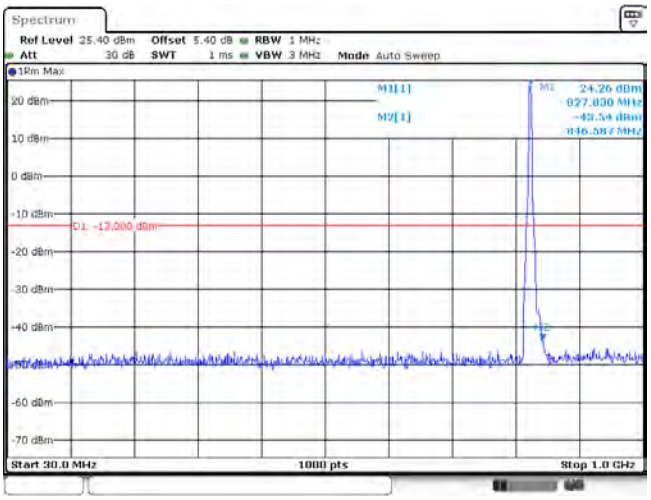


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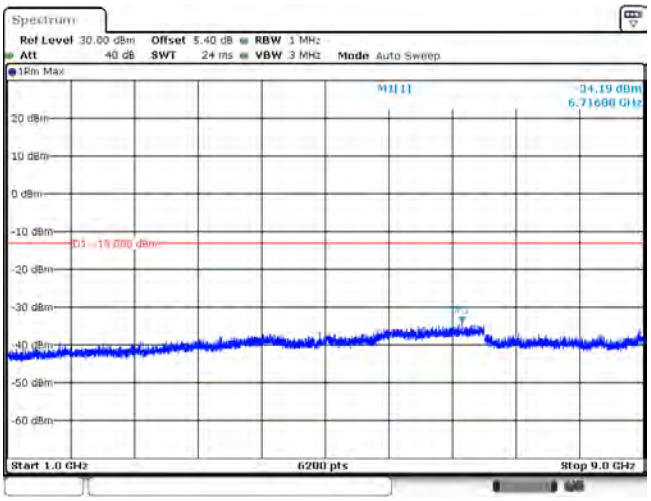


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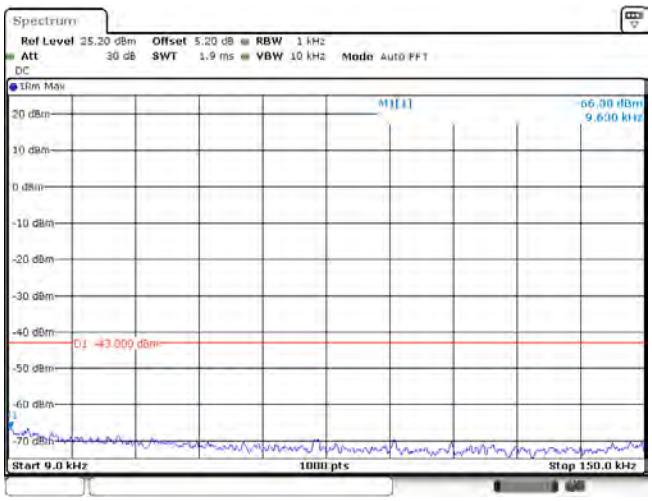


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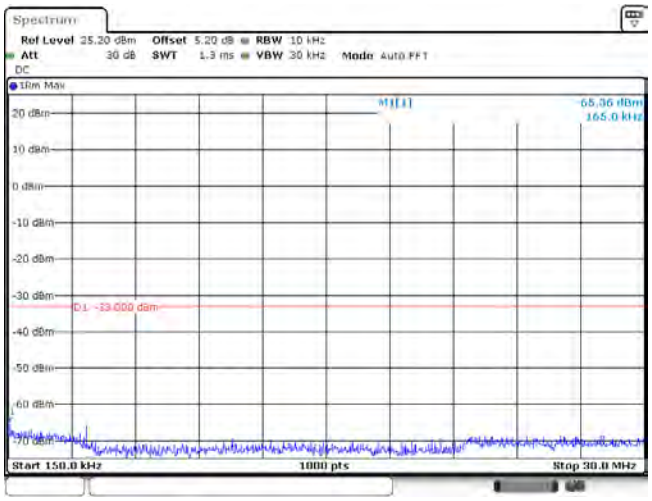


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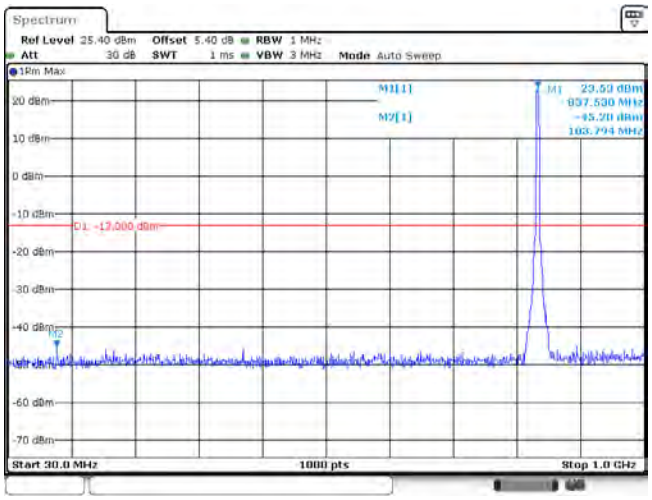


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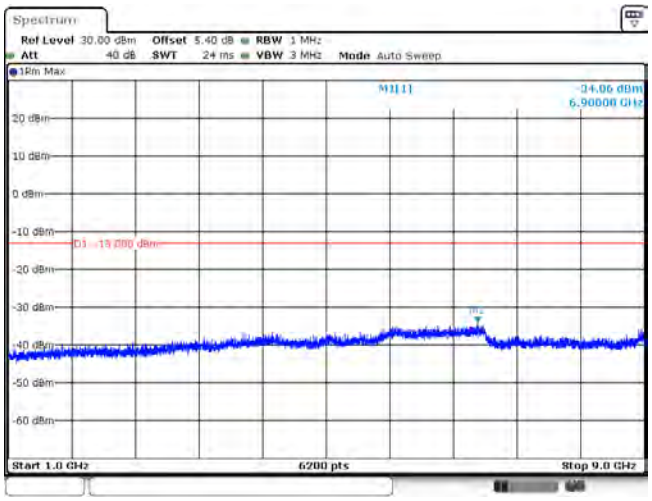


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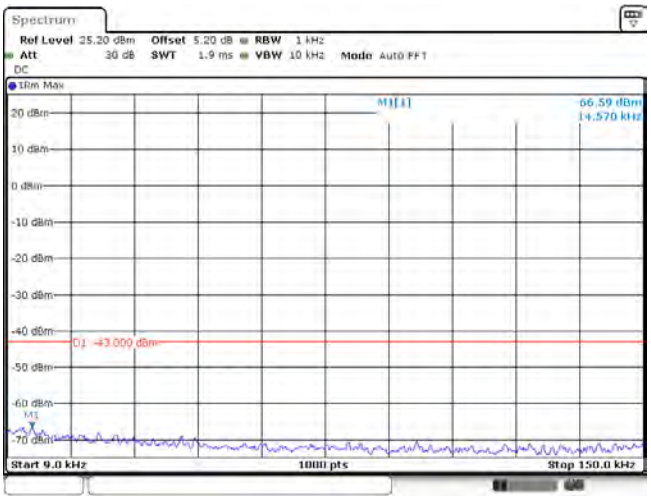


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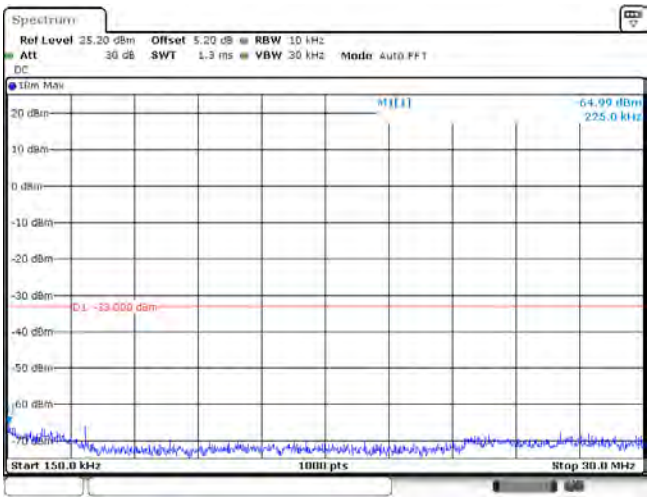


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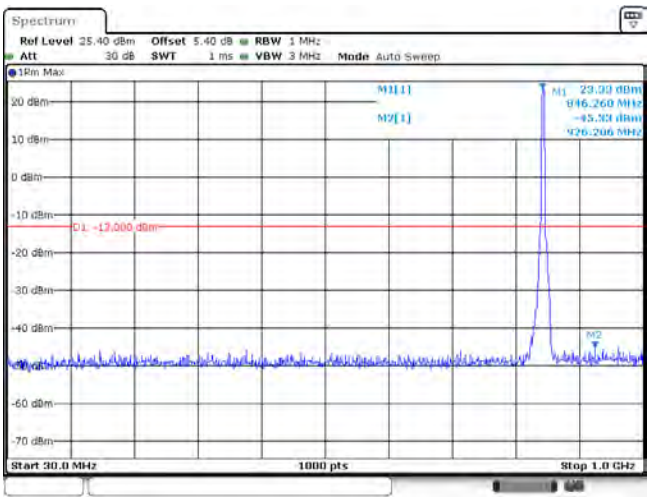


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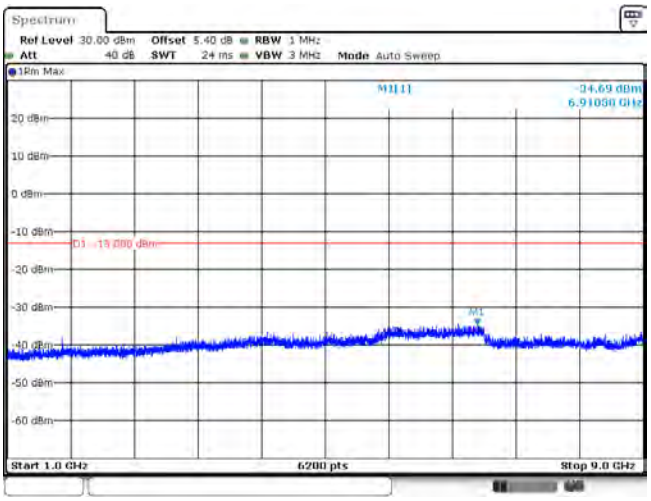


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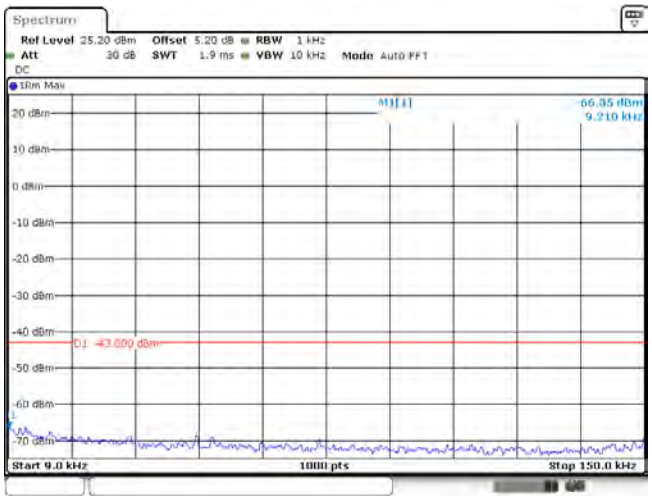


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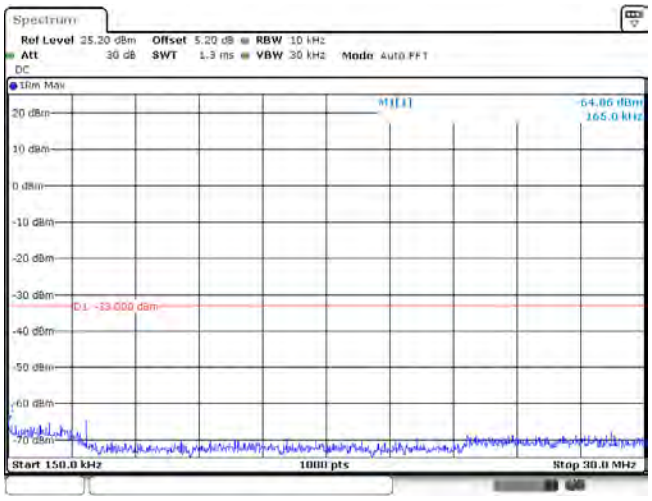


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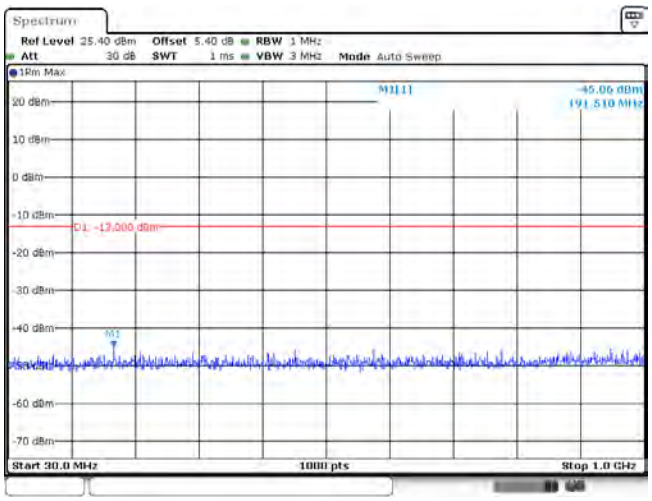


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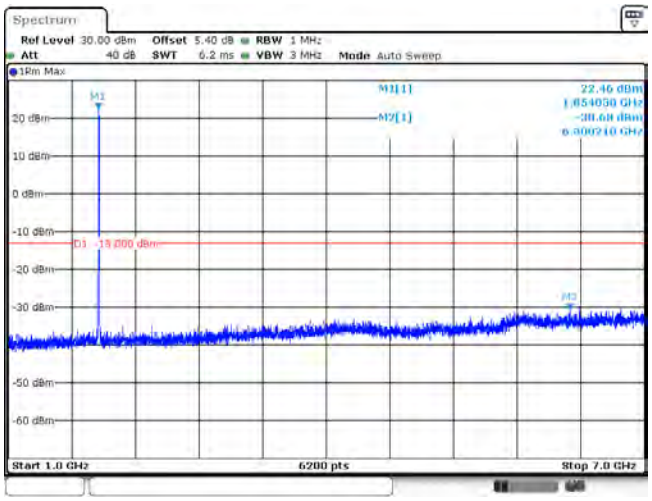


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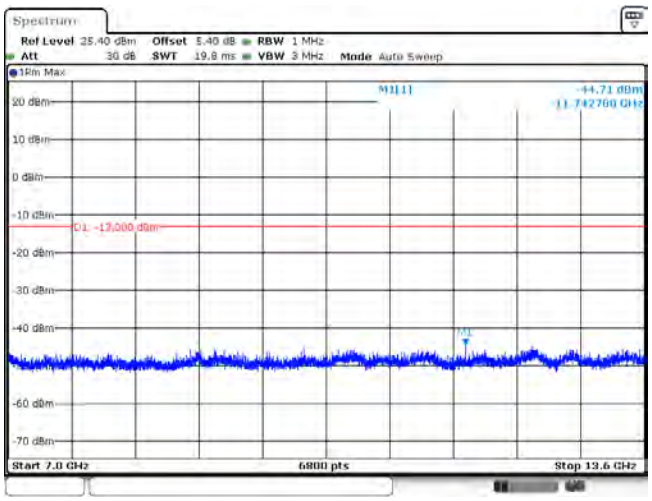


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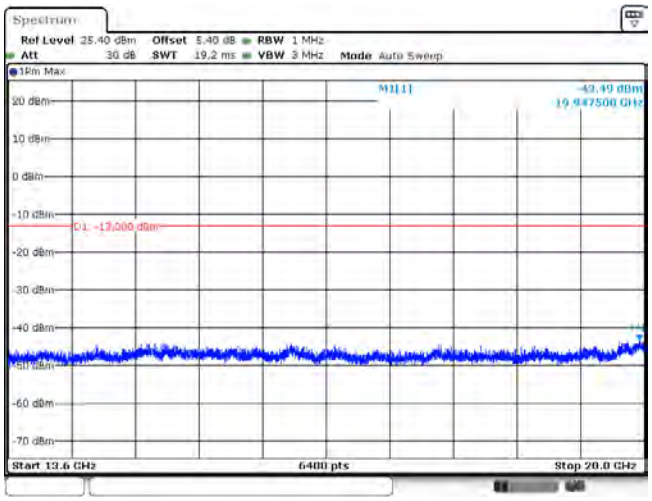


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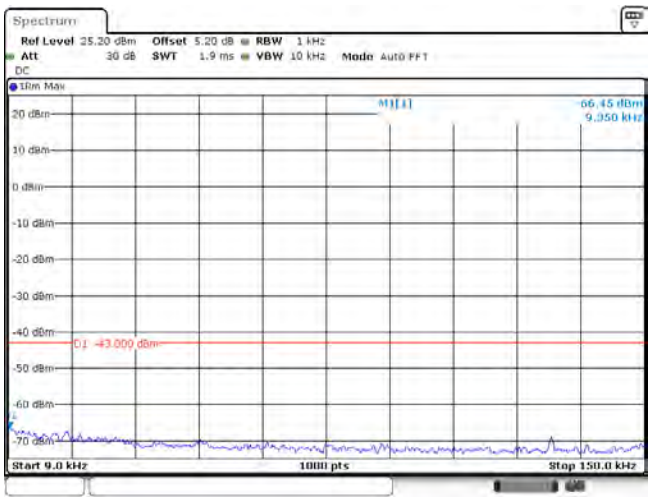


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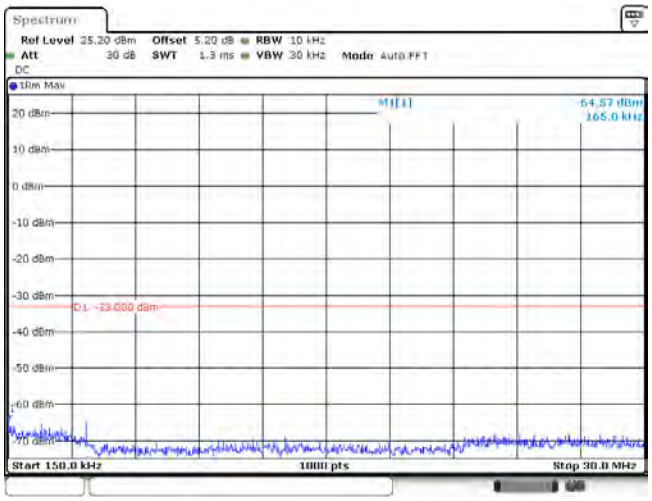


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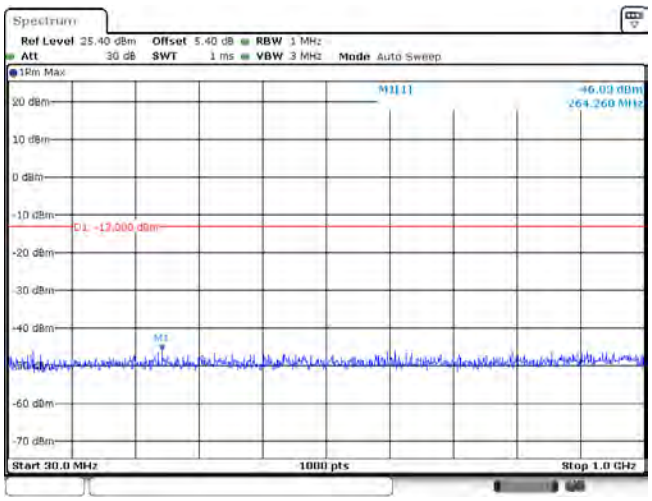


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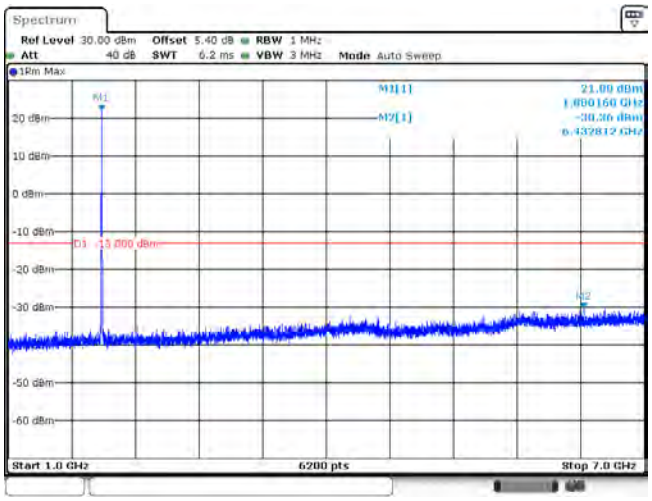


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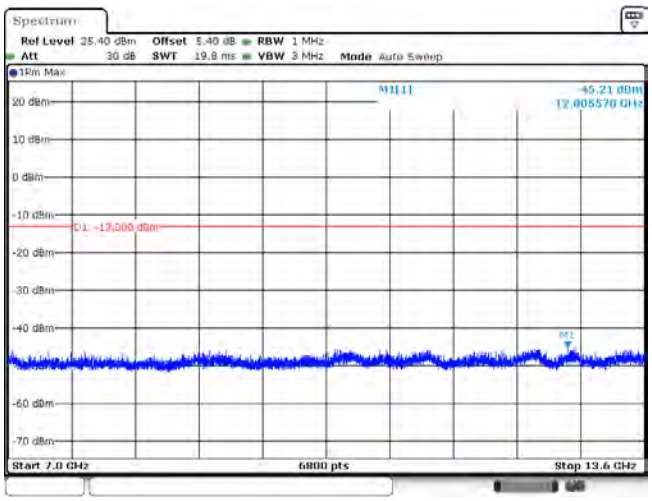


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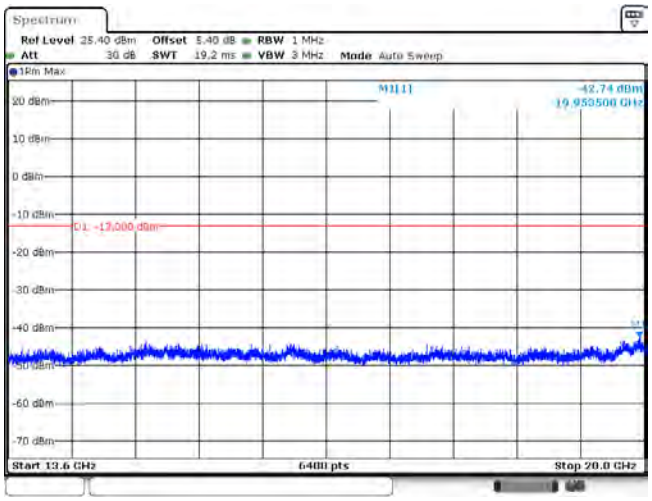


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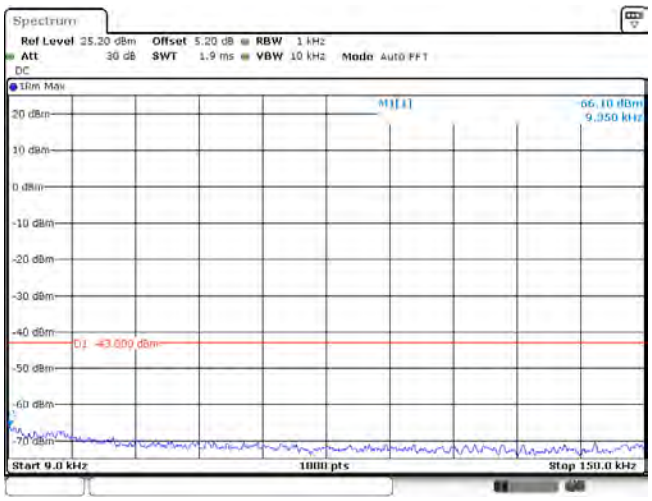


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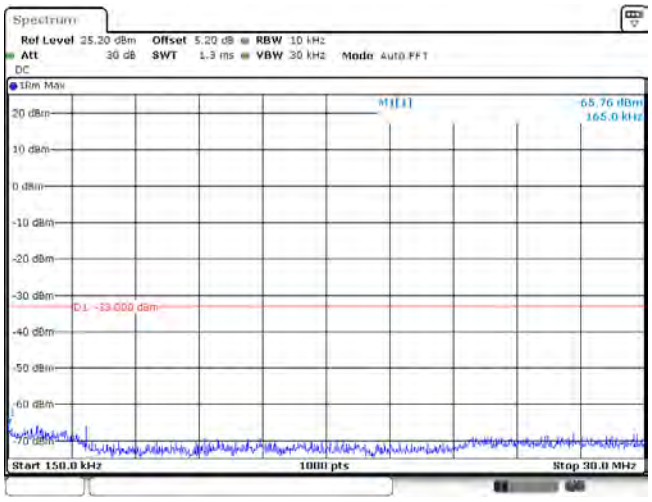


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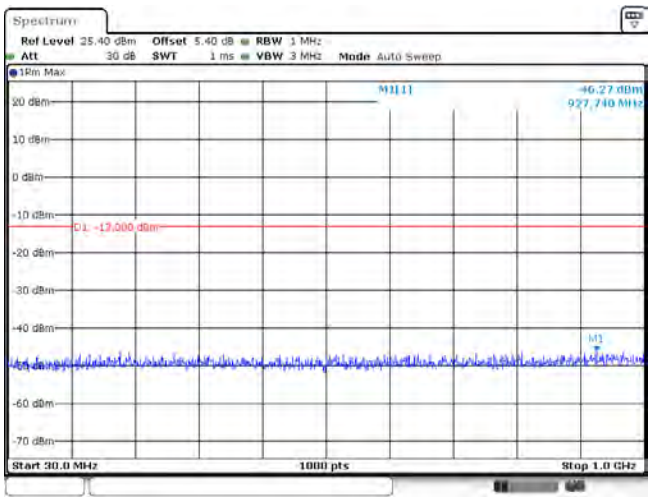


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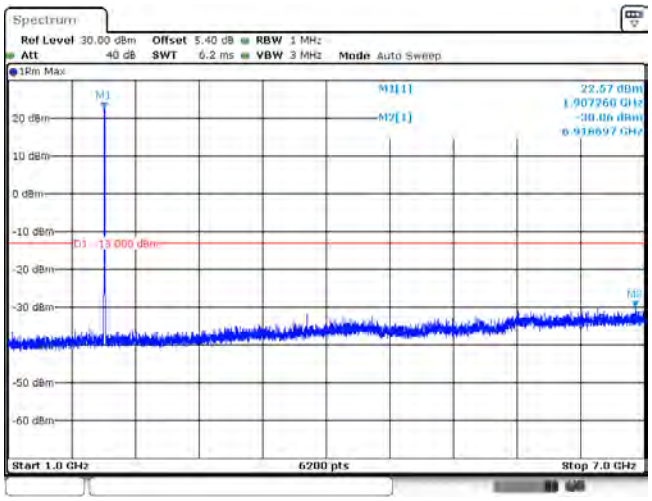


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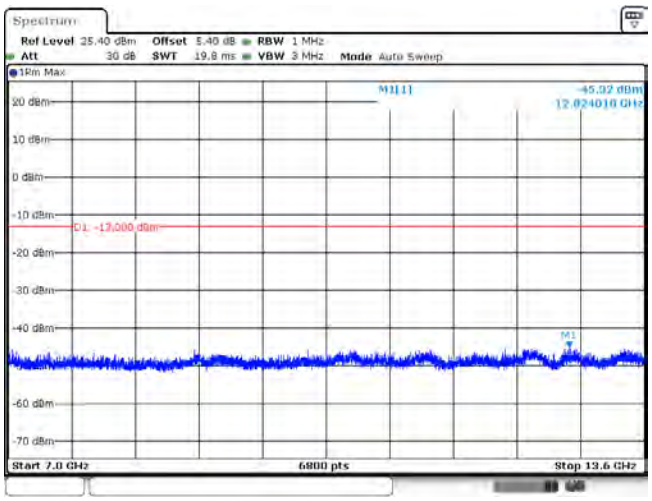


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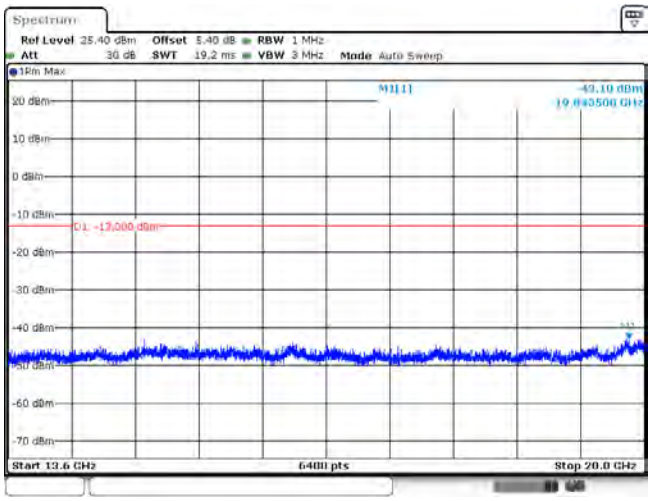


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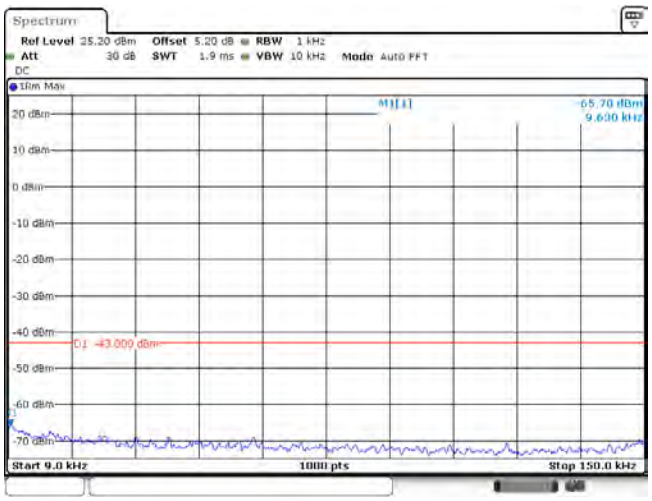


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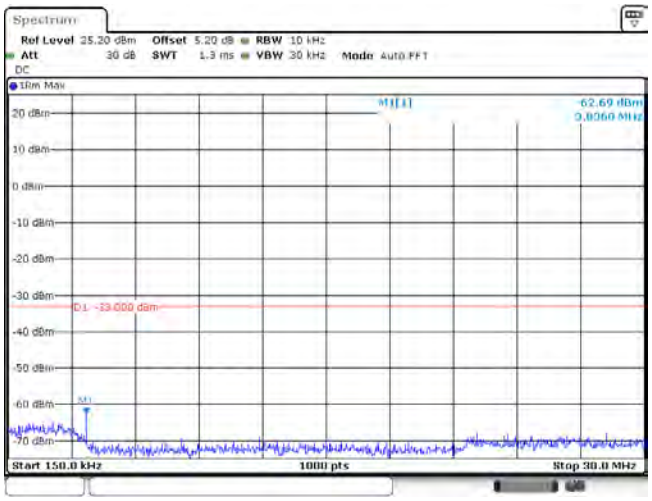


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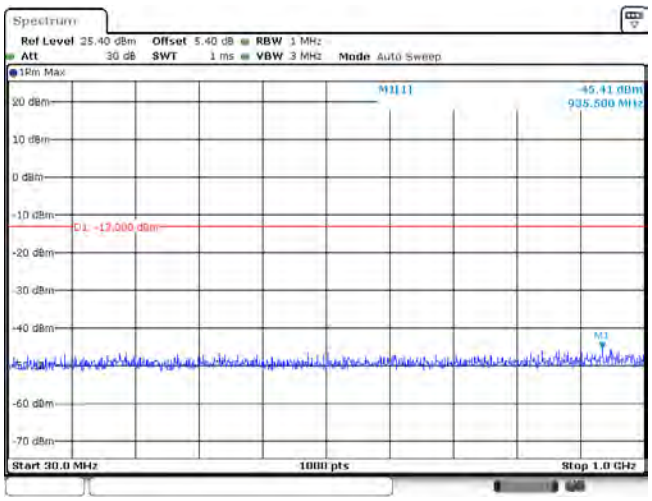


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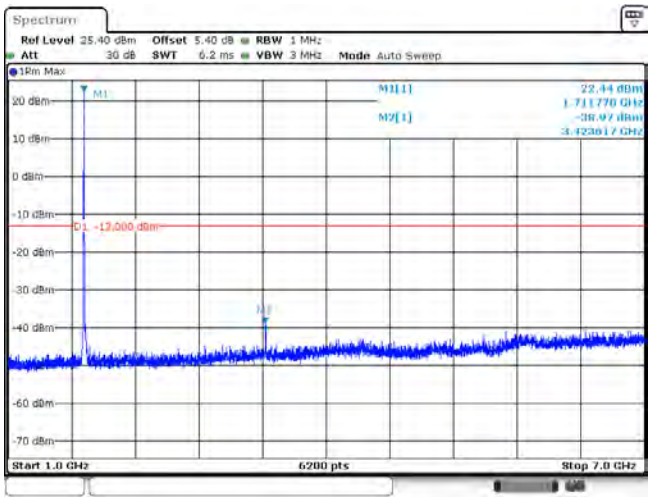


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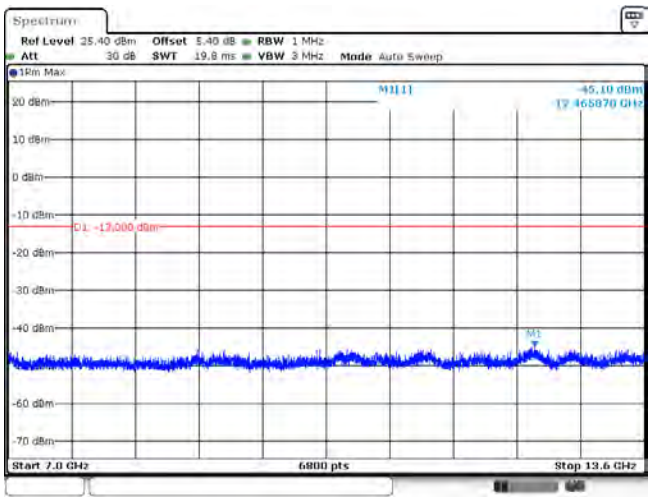


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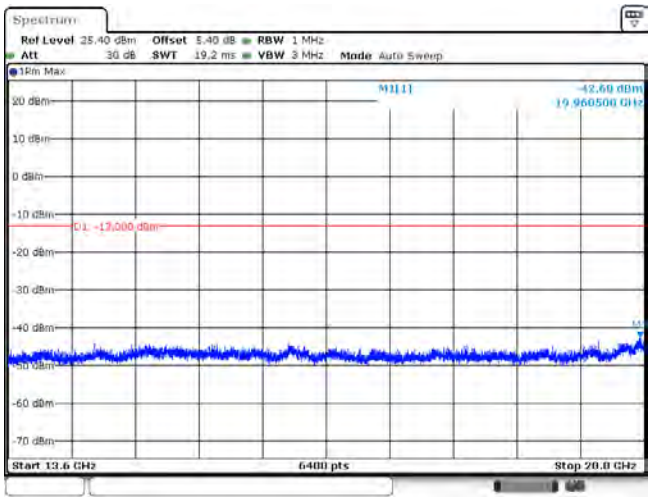


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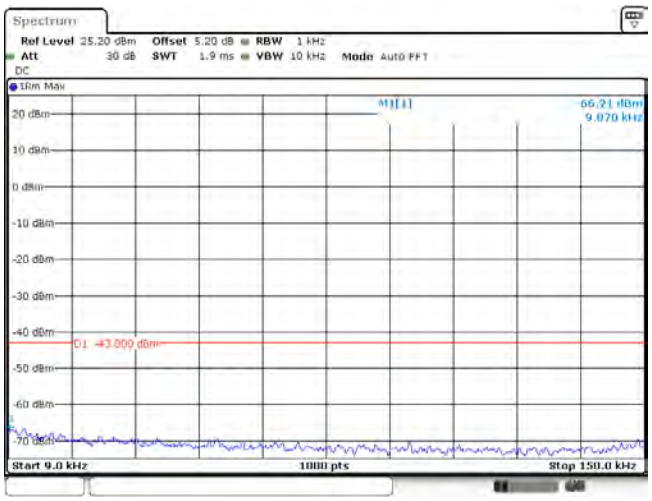


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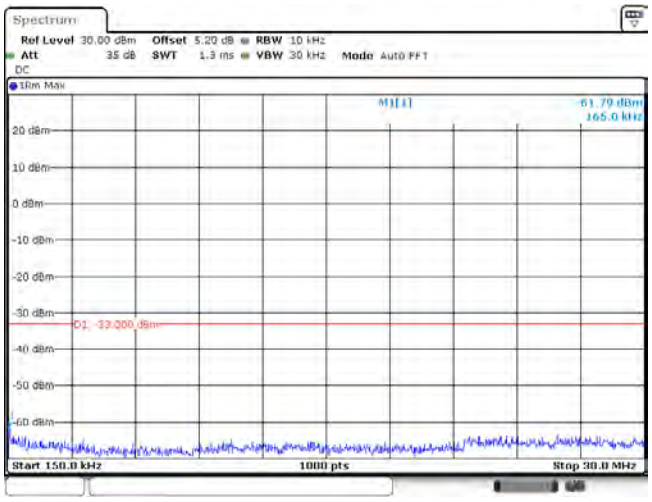


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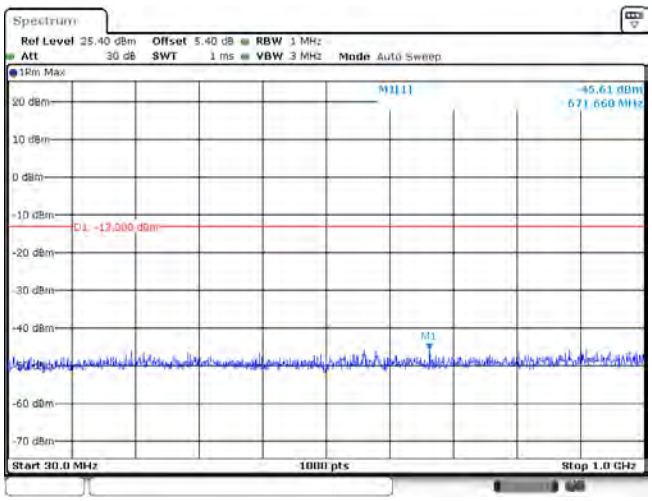


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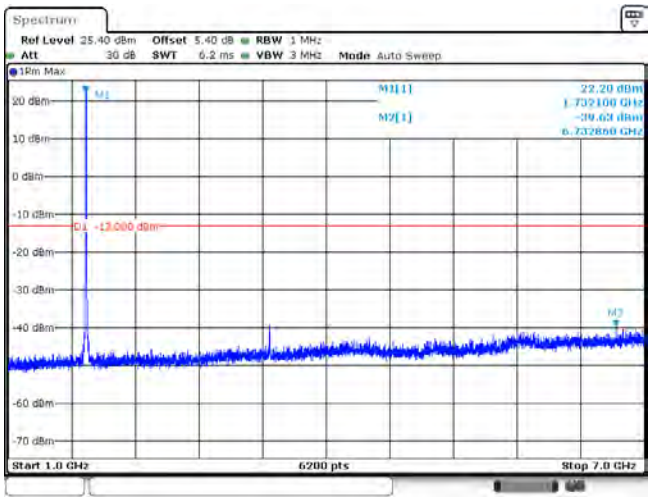


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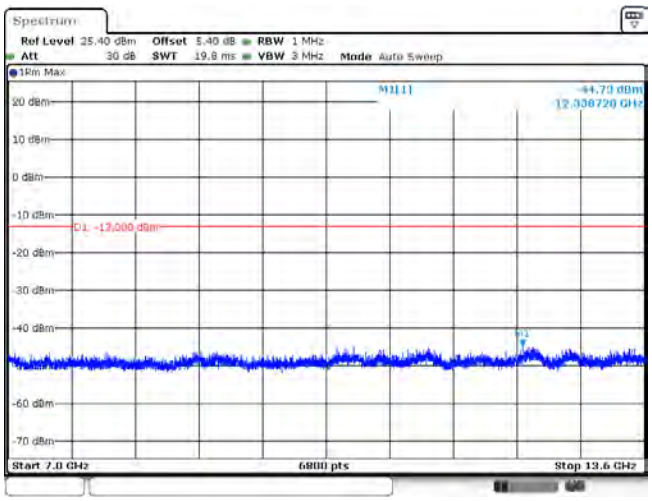


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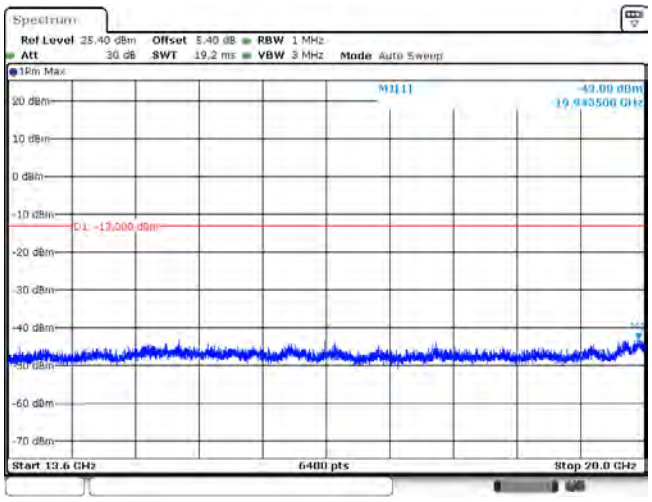


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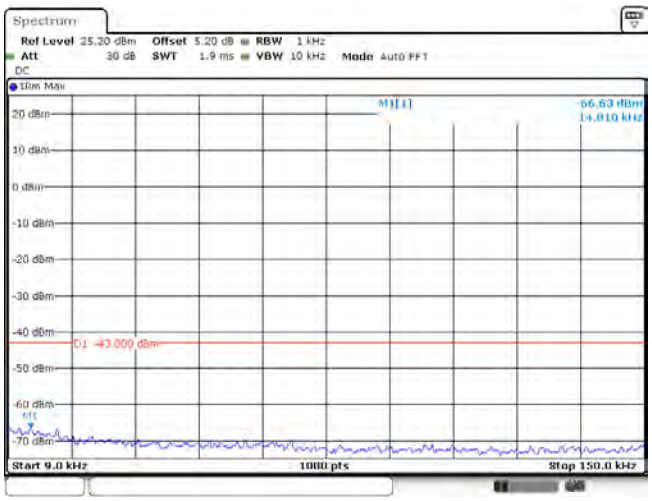


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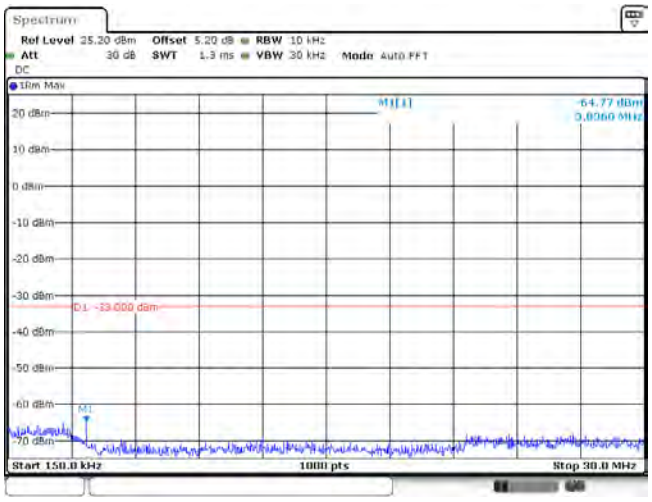


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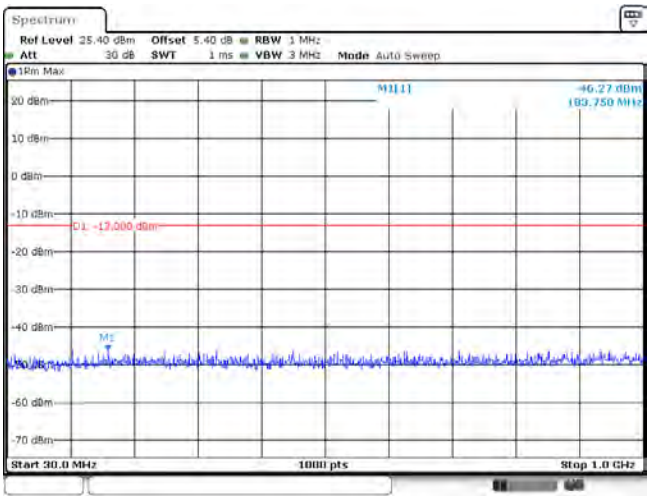


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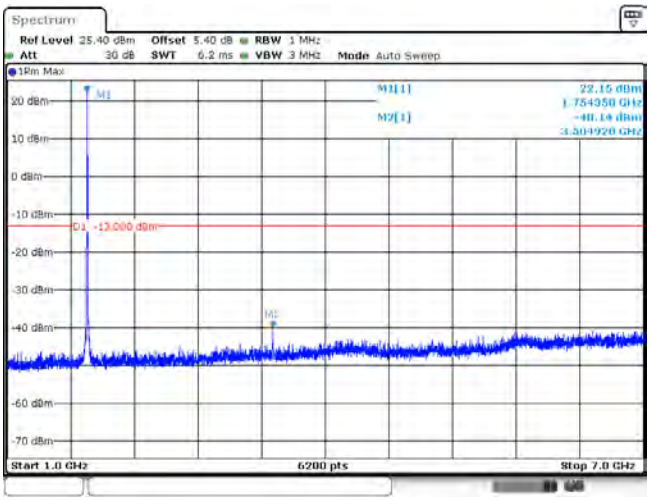


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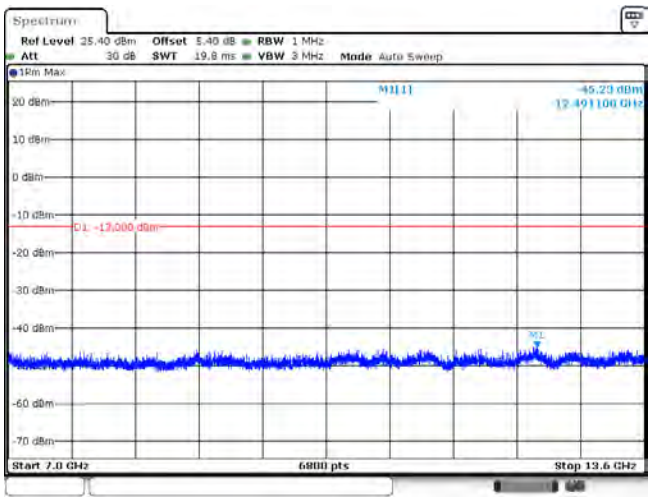


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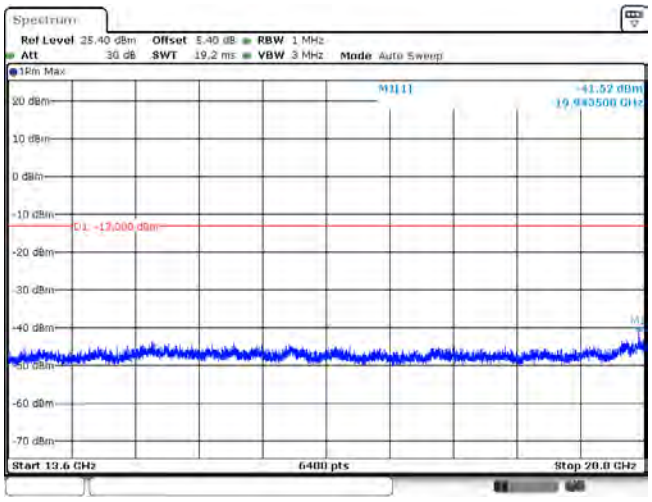


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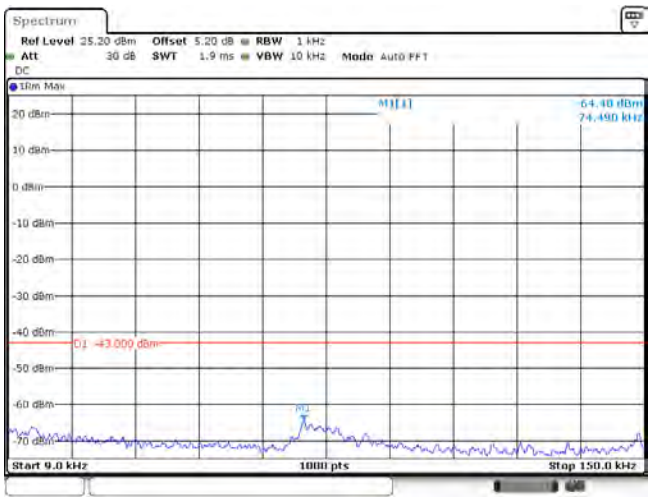


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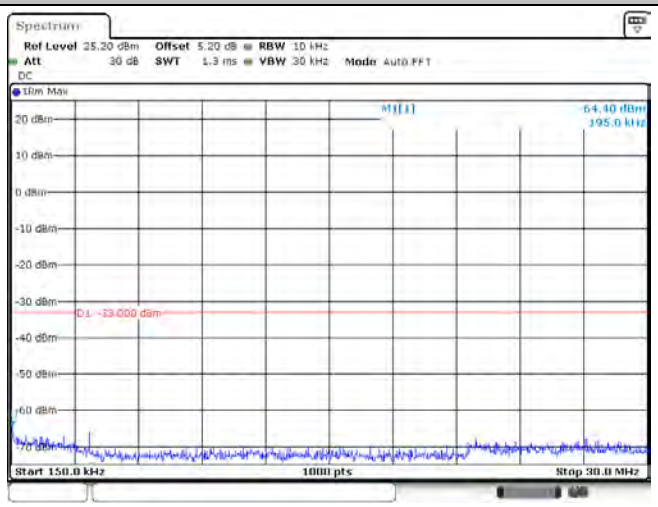


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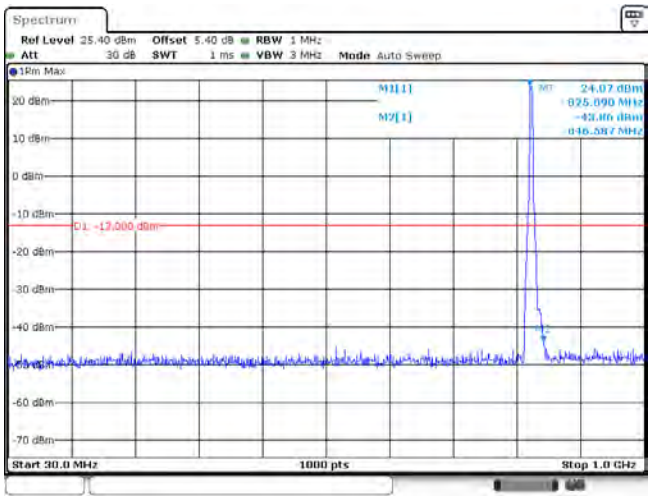


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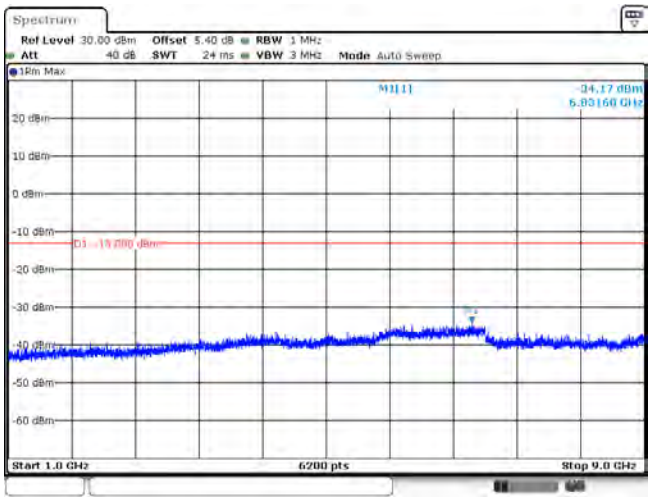


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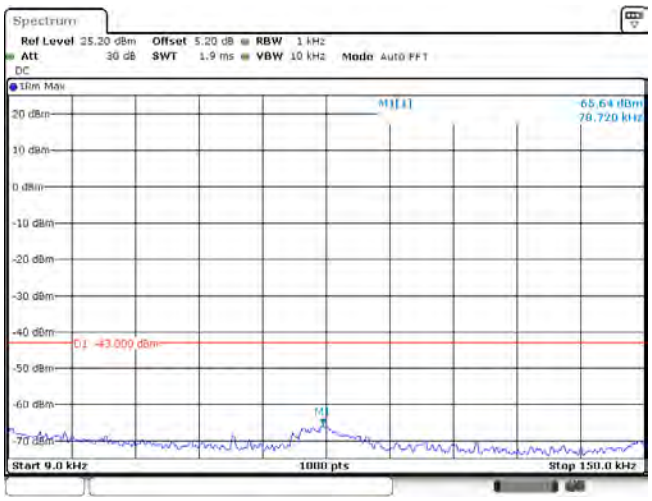


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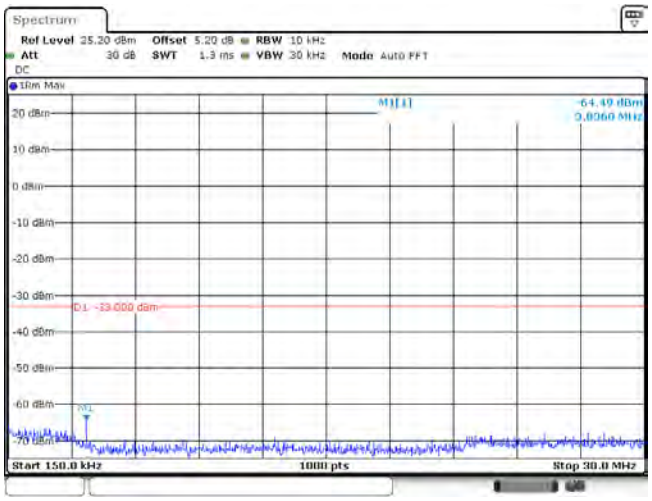


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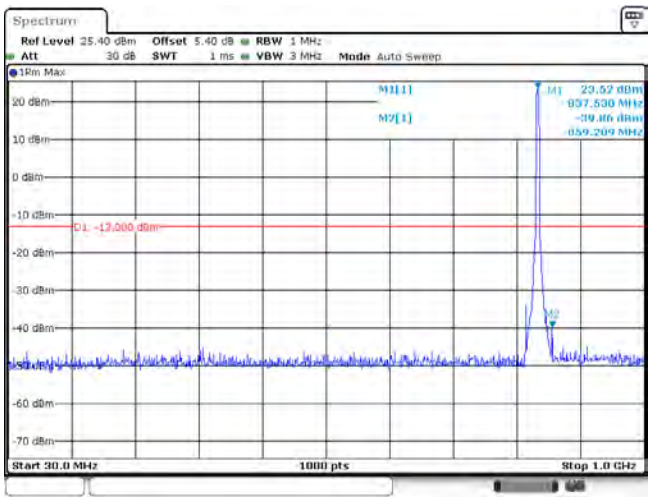


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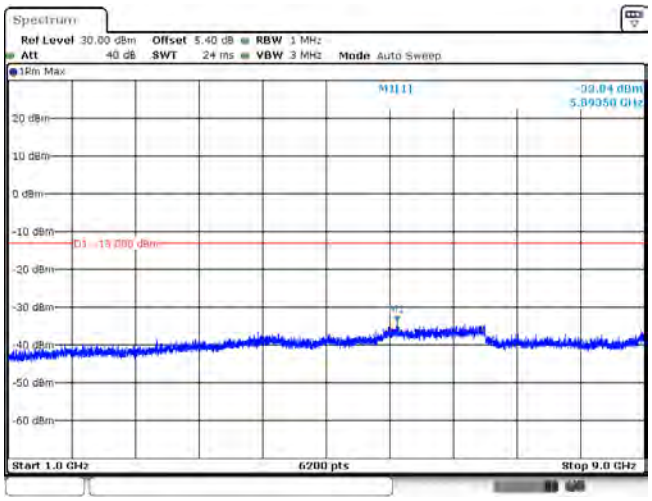


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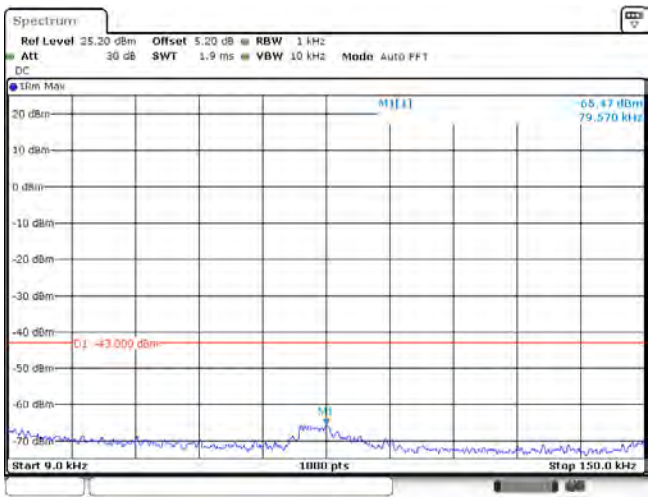


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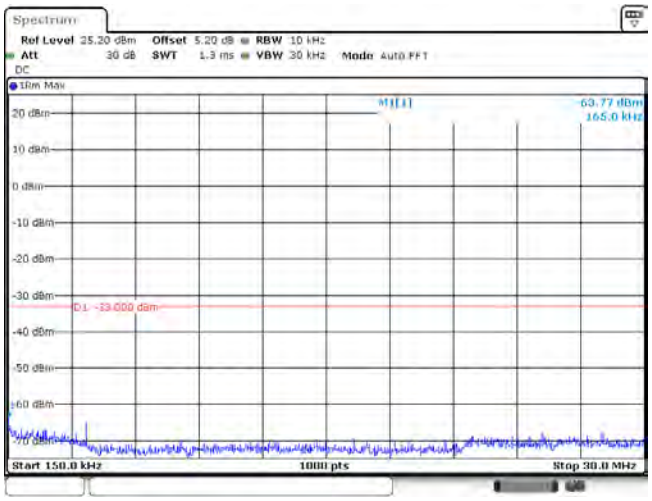


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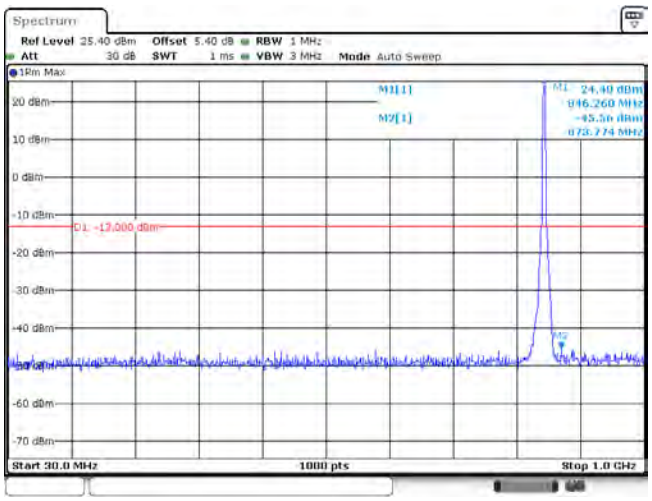


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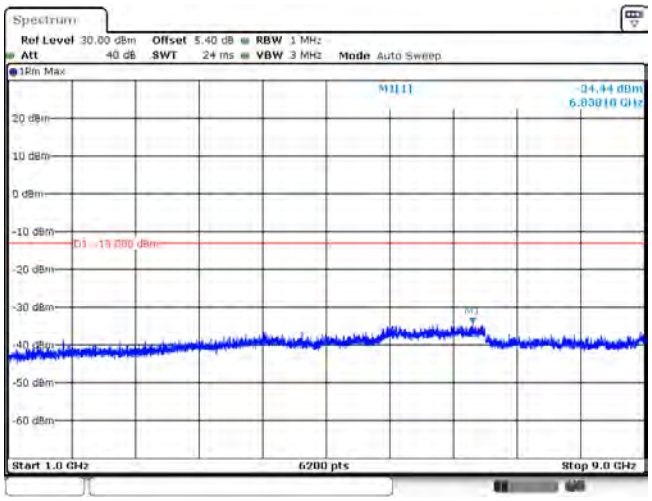


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# 7. Field Strength of Spurious Radiation

## 7.1. Test Band = WCDMA Band II

### 7.1.1. Test Mode =WCDMA/TM1

#### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 106.1488 | -64.94 | -13.00 | 51.94 | Vertical |
| 333.8192 | -68.45 | -13.00 | 55.45 | Vertical |
| 1257.2515 | -47.79 | -13.00 | 34.79 | Vertical |
| 3703.0234 | -47.28 | -13.00 | 34.28 | Vertical |
| 7409.6470 | -43.22 | -13.00 | 30.22 | Vertical |
| 17996.4999 | -34.57 | -13.00 | 21.57 | Vertical |
| 39.7975 | -63.71 | -13.00 | 50.71 | Horizontal |
| 228.4234 | -67.92 | -13.00 | 54.92 | Horizontal |
| 1611.3223 | -44.21 | -13.00 | 31.21 | Horizontal |
| 3707.0236 | -47.00 | -13.00 | 34.00 | Horizontal |
| 7412.6471 | -46.39 | -13.00 | 33.39 | Horizontal |
| 16394.4465 | -37.81 | -13.00 | 24.81 | Horizontal |

#### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 48.7704 | -70.17 | -13.00 | 57.17 | Vertical |
| 110.1745 | -64.92 | -13.00 | 51.92 | Vertical |
| 1355.6711 | -47.54 | -13.00 | 34.54 | Vertical |
| 3758.5253 | -47.16 | -13.00 | 34.16 | Vertical |
| 7516.1505 | -46.10 | -13.00 | 33.10 | Vertical |
| 17996.9999 | -34.42 | -13.00 | 21.42 | Vertical |
| 44.8417 | -63.40 | -13.00 | 50.40 | Horizontal |
| 228.8599 | -68.11 | -13.00 | 55.11 | Horizontal |
| 2699.5399 | -35.03 | -13.00 | 22.03 | Horizontal |
| 3761.0254 | -48.05 | -13.00 | 35.05 | Horizontal |
| 5643.5881 | -52.57 | -13.00 | 39.57 | Horizontal |
| 16385.4462 | -38.40 | -13.00 | 25.40 | Horizontal |

#### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 45.7148 | -70.95 | -13.00 | 57.95 | Vertical |
| 118.3714 | -64.43 | -13.00 | 51.43 | Vertical |
| 1281.6563 | -47.65 | -13.00 | 34.65 | Vertical |

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| | | | | |
|---|---|---|---|---|
| 3817.0272 | -48.29 | -13.00 | 35.29 | Vertical |
| 7633.1544 | -46.80 | -13.00 | 33.80 | Vertical |
| 17994.9998 | -34.50 | -13.00 | 21.50 | Vertical |
| 42.0286 | -63.74 | -13.00 | 50.74 | Horizontal |
| 235.4078 | -67.79 | -13.00 | 54.79 | Horizontal |
| 1574.5149 | -44.71 | -13.00 | 31.71 | Horizontal |
| 3816.5272 | -48.27 | -13.00 | 35.27 | Horizontal |
| 7627.1542 | -50.85 | -13.00 | 37.85 | Horizontal |
| 16397.4466 | -38.56 | -13.00 | 25.56 | Horizontal |

## 7.2. Test Band = WCDMA Band IV

### 7.2.1. Test Mode =WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 65.4068 | -69.21 | -13.00 | 56.21 | Vertical |
| 109.3985 | -64.61 | -13.00 | 51.61 | Vertical |
| 1334.0668 | -47.58 | -13.00 | 34.58 | Vertical |
| 3423.5141 | -44.22 | -13.00 | 31.22 | Vertical |
| 6846.1282 | -47.33 | -13.00 | 34.33 | Vertical |
| 17997.4999 | -34.46 | -13.00 | 21.46 | Vertical |
| 45.1328 | -64.32 | -13.00 | 51.32 | Horizontal |
| 247.5819 | -67.87 | -13.00 | 54.87 | Horizontal |
| 1464.4929 | -46.66 | -13.00 | 33.66 | Horizontal |
| 3422.5141 | -43.88 | -13.00 | 30.88 | Horizontal |
| 9317.7106 | -48.71 | -13.00 | 35.71 | Horizontal |
| 16395.9465 | -38.61 | -13.00 | 25.61 | Horizontal |

#### 7.2.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 48.6249 | -70.54 | -13.00 | 57.54 | Vertical |
| 109.0590 | -64.09 | -13.00 | 51.09 | Vertical |
| 2693.9388 | -36.52 | -13.00 | 23.52 | Vertical |
| 3463.0154 | -46.03 | -13.00 | 33.03 | Vertical |
| 6934.1311 | -45.40 | -13.00 | 32.40 | Vertical |
| 17914.9972 | -34.50 | -13.00 | 21.50 | Vertical |
| 37.2754 | -63.84 | -13.00 | 50.84 | Horizontal |
| 230.2180 | -67.73 | -13.00 | 54.73 | Horizontal |
| 2699.9400 | -35.20 | -13.00 | 22.20 | Horizontal |
| 3464.0155 | -44.64 | -13.00 | 31.64 | Horizontal |
| 6930.6310 | -50.57 | -13.00 | 37.57 | Horizontal |
| 16402.4467 | -38.30 | -13.00 | 25.30 | Horizontal |

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### 7.2.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 109.8835 | -64.48 | -13.00 | 51.48 | Vertical |
| 373.2517 | -68.40 | -13.00 | 55.40 | Vertical |
| 2701.9404 | -36.48 | -13.00 | 23.48 | Vertical |
| 3506.5169 | -45.87 | -13.00 | 32.87 | Vertical |
| 7006.6336 | -44.99 | -13.00 | 31.99 | Vertical |
| 17986.9996 | -34.53 | -13.00 | 21.53 | Vertical |
| 42.7561 | -63.52 | -13.00 | 50.52 | Horizontal |
| 233.0797 | -67.87 | -13.00 | 54.87 | Horizontal |
| 2691.9384 | -35.12 | -13.00 | 22.12 | Horizontal |
| 3507.0169 | -45.45 | -13.00 | 32.45 | Horizontal |
| 7010.6337 | -49.47 | -13.00 | 36.47 | Horizontal |
| 16394.4465 | -38.19 | -13.00 | 25.19 | Horizontal |

## 7.3. Test Band = WCDMA Band V

### 7.3.1. Test Mode =WCDMA/TM1

### 7.3.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 111.6781 | -63.77 | -13.00 | 50.77 | Vertical |
| 349.7765 | -68.69 | -13.00 | 55.69 | Vertical |
| 1674.5349 | -52.71 | -13.00 | 39.71 | Vertical |
| 4187.5396 | -58.06 | -13.00 | 45.06 | Vertical |
| 7976.6659 | -52.27 | -13.00 | 39.27 | Vertical |
| 17995.9999 | -34.51 | -13.00 | 21.51 | Vertical |
| 42.6106 | -64.13 | -13.00 | 51.13 | Horizontal |
| 224.4947 | -67.07 | -13.00 | 54.07 | Horizontal |
| 1674.1348 | -51.70 | -13.00 | 38.70 | Horizontal |
| 2697.1394 | -54.74 | -13.00 | 41.74 | Horizontal |
| 8853.6951 | -51.06 | -13.00 | 38.06 | Horizontal |
| 16384.9462 | -38.64 | -13.00 | 25.64 | Horizontal |

### 7.3.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 109.6410 | -65.10 | -13.00 | 52.10 | Vertical |
| 293.9502 | -69.92 | -13.00 | 56.92 | Vertical |
| 1650.9302 | -51.64 | -13.00 | 38.64 | Vertical |
| 4960.5654 | -55.79 | -13.00 | 42.79 | Vertical |
| 10698.7566 | -47.37 | -13.00 | 34.37 | Vertical |
| 17999.5000 | -34.22 | -13.00 | 21.22 | Vertical |

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| | | | | |
|---|---|---|---|---|
| 44.8417 | -64.21 | -13.00 | 51.21 | Horizontal |
| 230.5575 | -67.10 | -13.00 | 54.10 | Horizontal |
| 1650.5301 | -50.36 | -13.00 | 37.36 | Horizontal |
| 3309.5103 | -54.03 | -13.00 | 41.03 | Horizontal |
| 9275.7092 | -48.43 | -13.00 | 35.43 | Horizontal |
| 16400.9467 | -38.28 | -13.00 | 25.28 | Horizontal |

### 7.3.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 53.2812 | -70.68 | -13.00 | 57.68 | Vertical |
| 111.3386 | -64.94 | -13.00 | 51.94 | Vertical |
| 451.0011 | -66.77 | -13.00 | 53.77 | Vertical |
| 1691.3383 | -51.96 | -13.00 | 38.96 | Vertical |
| 5073.5691 | -55.67 | -13.00 | 42.67 | Vertical |
| 17999.0000 | -33.88 | -13.00 | 20.88 | Vertical |
| 43.0472 | -63.73 | -13.00 | 50.73 | Horizontal |
| 236.1353 | -68.35 | -13.00 | 55.35 | Horizontal |
| 1694.9390 | -50.87 | -13.00 | 37.87 | Horizontal |
| 2447.8896 | -51.42 | -13.00 | 38.42 | Horizontal |
| 7385.6462 | -52.64 | -13.00 | 39.64 | Horizontal |
| 16388.9463 | -38.60 | -13.00 | 25.60 | Horizontal |

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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# 8. Frequency Stability

## 8.1. Frequency Vs Voltage

| Band | Modulation | Channel | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band II | QPSK | 9262 | VL | TN | 15.00 | 0.008096 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | TN | 3.37 | 0.001821 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VH | TN | -9.47 | -0.005113 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VL | TN | -9.67 | -0.005144 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | TN | -5.25 | -0.002791 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VH | TN | 10.41 | 0.005536 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VL | TN | 9.87 | 0.005174 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | TN | -4.83 | -0.002531 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VH | TN | -7.73 | -0.004053 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VL | TN | 1.88 | 0.001015 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | TN | 7.70 | 0.004159 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VH | TN | -13.74 | -0.007419 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VL | TN | 10.31 | 0.005483 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | TN | -6.53 | -0.003473 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VH | TN | -12.53 | -0.006663 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VL | TN | -12.83 | -0.006728 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | TN | -5.65 | -0.002961 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VH | TN | 3.09 | 0.001618 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VL | TN | 12.81 | 0.007480 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | TN | -10.04 | -0.005865 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VH | TN | 14.00 | 0.008177 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VL | TN | -1.22 | -0.000703 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | TN | -4.37 | -0.002520 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VH | TN | -6.61 | -0.003813 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VL | TN | 0.10 | 0.000057 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | TN | 12.87 | 0.007341 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VH | TN | 11.48 | 0.006553 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VL | TN | 11.37 | 0.006641 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | TN | 1.03 | 0.000601 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VH | TN | -12.43 | -0.007256 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VL | TN | -9.89 | -0.005709 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | TN | -5.64 | -0.003253 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|
| Band IV | 16QAM | 1413 | VH | TN | 14.84 | 0.008565 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VL | TN | -4.31 | -0.002458 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | TN | -9.80 | -0.005594 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VH | TN | 4.62 | 0.002634 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VL | TN | 6.63 | 0.008022 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | TN | -11.92 | -0.014428 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VH | TN | 1.79 | 0.002161 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VL | TN | -10.74 | -0.012842 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | TN | 13.05 | 0.015608 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VH | TN | -6.13 | -0.007329 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VL | TN | 6.11 | 0.007222 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | TN | -8.64 | -0.010210 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VH | TN | -13.33 | -0.015742 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VL | TN | -6.91 | -0.008356 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | TN | -1.64 | -0.001989 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VH | TN | -1.84 | -0.002225 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VL | TN | -8.34 | -0.009966 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | TN | -1.14 | -0.001362 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VH | TN | 4.16 | 0.004975 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VL | TN | -9.70 | -0.011454 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | TN | -2.54 | -0.003002 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VH | TN | 9.03 | 0.010671 | ±2.5 | PASS |

## 8.2. Frequency Vs Temperature

| Band | Modulation | Channel | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band II | QPSK | 9262 | VN | -30 | 2.09 | 0.001127 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | -20 | 2.56 | 0.001382 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | -10 | 13.36 | 0.007214 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 0 | 0.96 | 0.000519 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 10 | -8.66 | -0.004678 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 20 | 7.52 | 0.004059 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 30 | 3.95 | 0.002134 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 40 | 10.32 | 0.005571 | ±2.5 | PASS |
| Band II | QPSK | 9262 | VN | 50 | 8.36 | 0.004511 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | -30 | 1.83 | 0.000974 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | -20 | 9.43 | 0.005016 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | -10 | 0.26 | 0.000137 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | 0 | -8.06 | -0.004287 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|
| Band II | QPSK | 9400 | VN | 10 | 12.62 | 0.006712 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | 20 | 2.59 | 0.001379 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | 30 | -8.18 | -0.004350 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | 40 | -0.05 | -0.000025 | ±2.5 | PASS |
| Band II | QPSK | 9400 | VN | 50 | 1.62 | 0.000859 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | -30 | -1.38 | -0.000723 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | -20 | 13.16 | 0.006900 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | -10 | -2.04 | -0.001070 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 0 | -13.28 | -0.006961 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 10 | -10.79 | -0.005656 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 20 | -13.31 | -0.006979 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 30 | 8.98 | 0.004710 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 40 | -1.45 | -0.000758 | ±2.5 | PASS |
| Band II | QPSK | 9538 | VN | 50 | -0.56 | -0.000294 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | -30 | -1.09 | -0.000586 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | -20 | 9.18 | 0.004958 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | -10 | 4.23 | 0.002282 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 0 | -12.48 | -0.006735 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 10 | -12.42 | -0.006705 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 20 | 2.19 | 0.001182 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 30 | -10.64 | -0.005745 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 40 | -14.94 | -0.008067 | ±2.5 | PASS |
| Band II | 16QAM | 9262 | VN | 50 | 4.85 | 0.002618 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | -30 | 13.85 | 0.007369 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | -20 | 1.77 | 0.000942 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | -10 | -11.17 | -0.005941 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 0 | -10.56 | -0.005615 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 10 | -10.75 | -0.005719 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 20 | -3.35 | -0.001780 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 30 | -2.88 | -0.001533 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 40 | 11.64 | 0.006194 | ±2.5 | PASS |
| Band II | 16QAM | 9400 | VN | 50 | 6.45 | 0.003431 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | -30 | -13.23 | -0.006934 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | -20 | 8.54 | 0.004478 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | -10 | -0.70 | -0.000369 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | 0 | -5.48 | -0.002874 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | 10 | 2.90 | 0.001520 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | 20 | -12.51 | -0.006556 | ±2.5 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band II | 16QAM | 9538 | VN | 30 | -7.24 | -0.003798 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | 40 | 14.33 | 0.007512 | ±2.5 | PASS |
| Band II | 16QAM | 9538 | VN | 50 | 11.37 | 0.005962 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | -30 | 12.15 | 0.007094 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | -20 | 4.03 | 0.002352 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | -10 | 4.75 | 0.002772 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 0 | 6.27 | 0.003664 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 10 | 10.91 | 0.006370 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 20 | -13.35 | -0.007793 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 30 | 1.55 | 0.000906 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 40 | 0.91 | 0.000530 | ±2.5 | PASS |
| Band IV | QPSK | 1312 | VN | 50 | 7.25 | 0.004231 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | -30 | -8.24 | -0.004756 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | -20 | 1.09 | 0.000631 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | -10 | -1.25 | -0.000720 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 0 | 4.37 | 0.002525 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 10 | -5.66 | -0.003269 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 20 | 5.09 | 0.002937 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 30 | -6.10 | -0.003521 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 40 | 7.83 | 0.004519 | ±2.5 | PASS |
| Band IV | QPSK | 1413 | VN | 50 | -2.75 | -0.001589 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | -30 | 8.82 | 0.005033 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | -20 | -1.17 | -0.000670 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | -10 | 13.09 | 0.007471 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 0 | 0.55 | 0.000313 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 10 | -8.91 | -0.005084 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 20 | 4.93 | 0.002815 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 30 | 4.07 | 0.002322 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 40 | -7.45 | -0.004249 | ±2.5 | PASS |
| Band IV | QPSK | 1513 | VN | 50 | -4.78 | -0.002728 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | -30 | 5.07 | 0.002960 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | -20 | 2.54 | 0.001481 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | -10 | 7.87 | 0.004595 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | 0 | 4.54 | 0.002654 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | 10 | 7.74 | 0.004518 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | 20 | 11.99 | 0.007003 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | 30 | 12.40 | 0.007241 | ±2.5 | PASS |
| Band IV | 16QAM | 1312 | VN | 40 | 6.65 | 0.003886 | ±2.5 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band IV | 16QAM | 1312 | VN | 50 | -5.99 | -0.003496 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | -30 | -12.37 | -0.007139 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | -20 | 9.66 | 0.005575 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | -10 | -3.35 | -0.001931 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 0 | -8.57 | -0.004947 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 10 | 13.72 | 0.007917 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 20 | 0.23 | 0.000134 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 30 | 7.58 | 0.004377 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 40 | -7.73 | -0.004459 | ±2.5 | PASS |
| Band IV | 16QAM | 1413 | VN | 50 | 4.74 | 0.002735 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | -30 | 3.89 | 0.002222 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | -20 | -12.97 | -0.007399 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | -10 | 1.88 | 0.001070 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 0 | 7.61 | 0.004344 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 10 | -1.32 | -0.000755 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 20 | -1.46 | -0.000834 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 30 | -10.84 | -0.006185 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 40 | 6.29 | 0.003587 | ±2.5 | PASS |
| Band IV | 16QAM | 1513 | VN | 50 | -8.34 | -0.004756 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | -30 | 0.32 | 0.000391 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | -20 | 1.79 | 0.002161 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | -10 | -1.37 | -0.001653 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 0 | -10.63 | -0.012864 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 10 | 1.49 | 0.001803 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 20 | 1.00 | 0.001209 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 30 | 11.00 | 0.013315 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 40 | 2.91 | 0.003527 | ±2.5 | PASS |
| Band V | QPSK | 4132 | VN | 50 | 12.63 | 0.015281 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | -30 | 8.11 | 0.009692 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | -20 | -6.06 | -0.007248 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | -10 | 1.42 | 0.001700 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 0 | 6.78 | 0.008111 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 10 | 0.04 | 0.000054 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 20 | 2.32 | 0.002772 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 30 | -3.23 | -0.003867 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 40 | 6.11 | 0.007310 | ±2.5 | PASS |
| Band V | QPSK | 4182 | VN | 50 | -10.47 | -0.012521 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | -30 | 7.29 | 0.008614 | ±2.5 | PASS |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Band V | QPSK | 4233 | VN | -20 | -12.42 | -0.014667 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | -10 | 4.44 | 0.005250 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 0 | -8.56 | -0.010109 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 10 | 2.25 | 0.002654 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 20 | 0.89 | 0.001048 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 30 | -9.92 | -0.011714 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 40 | -7.17 | -0.008469 | ±2.5 | PASS |
| Band V | QPSK | 4233 | VN | 50 | 11.37 | 0.013431 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | -30 | -8.97 | -0.010850 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | -20 | -11.43 | -0.013832 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | -10 | -4.49 | -0.005436 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 0 | -12.48 | -0.015102 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 10 | -6.51 | -0.007876 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 20 | 4.84 | 0.005862 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 30 | 3.11 | 0.003763 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 40 | 6.00 | 0.007265 | ±2.5 | PASS |
| Band V | 16QAM | 4132 | VN | 50 | 12.77 | 0.015449 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | -30 | 3.92 | 0.004685 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | -20 | -1.67 | -0.001993 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | -10 | -5.20 | -0.006219 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 0 | -9.46 | -0.011314 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 10 | 7.74 | 0.009251 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 20 | 4.88 | 0.005838 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 30 | -7.01 | -0.008378 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 40 | -5.42 | -0.006477 | ±2.5 | PASS |
| Band V | 16QAM | 4182 | VN | 50 | 2.80 | 0.003343 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | -30 | -6.02 | -0.007111 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | -20 | 12.05 | 0.014236 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | -10 | -13.34 | -0.015757 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 0 | 14.02 | 0.016564 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 10 | -2.37 | -0.002803 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 20 | 4.33 | 0.005111 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 30 | 5.50 | 0.006496 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 40 | -9.30 | -0.010990 | ±2.5 | PASS |
| Band V | 16QAM | 4233 | VN | 50 | 14.47 | 0.017096 | ±2.5 | PASS |

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