

B71_CH133297_20M_1RB49_64-QAM_Ratio



Date: 31.AUG.2020 20:01:55

B71_CH133372_20M_1RB49_QPSK_Ratio



Date: 31.AUG.2020 20:40:37

B71_CH133372_20M_1RB49_16-QAM_Ratio



Date: 31.AUG.2020 20:54:01

B71_CH133372_20M_1RB49_64-QAM_Ratio

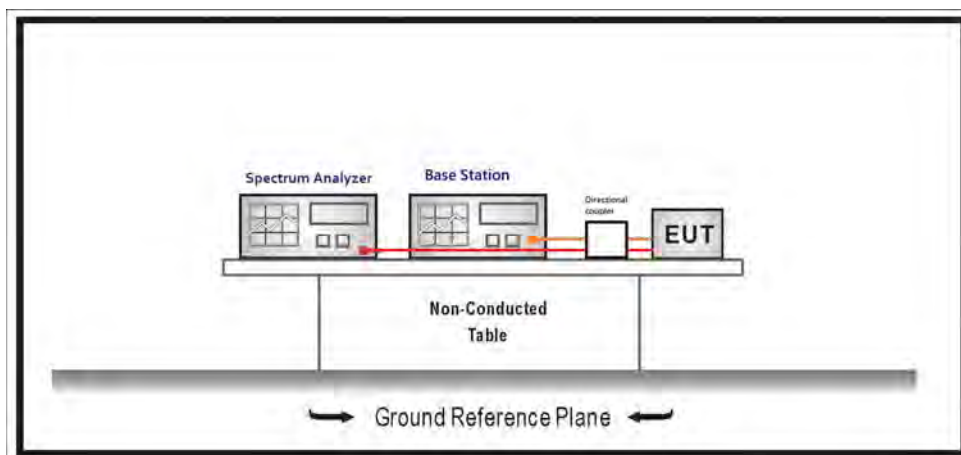


Date: 31.AUG.2020 20:59:25

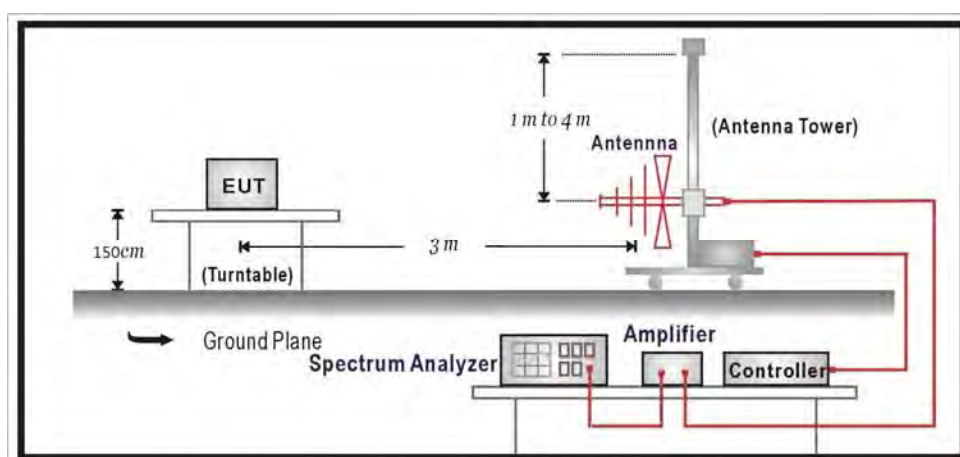
6. Spurious Emissions

6.1. Test Setup

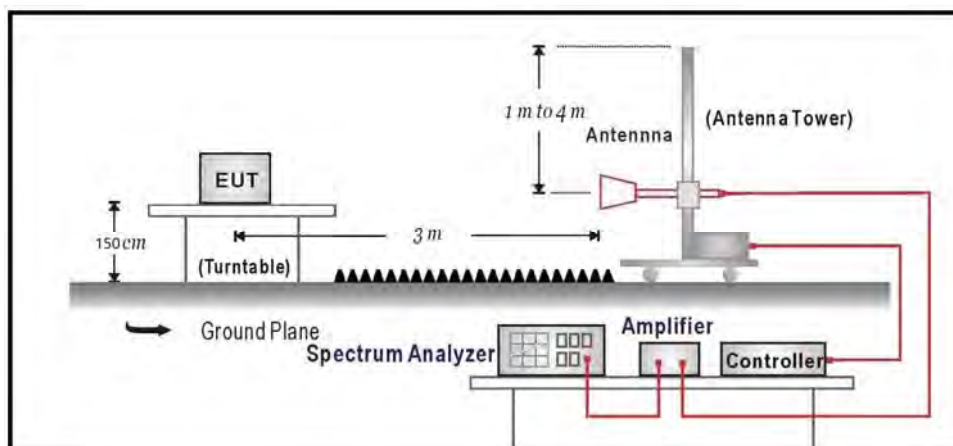
Conducted Spurious Measurement: below 1GHz



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



6.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port.
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause6.1
ANSI C63.26-2015 Sub-clause 5.7

Radiated Spurious Measurement:

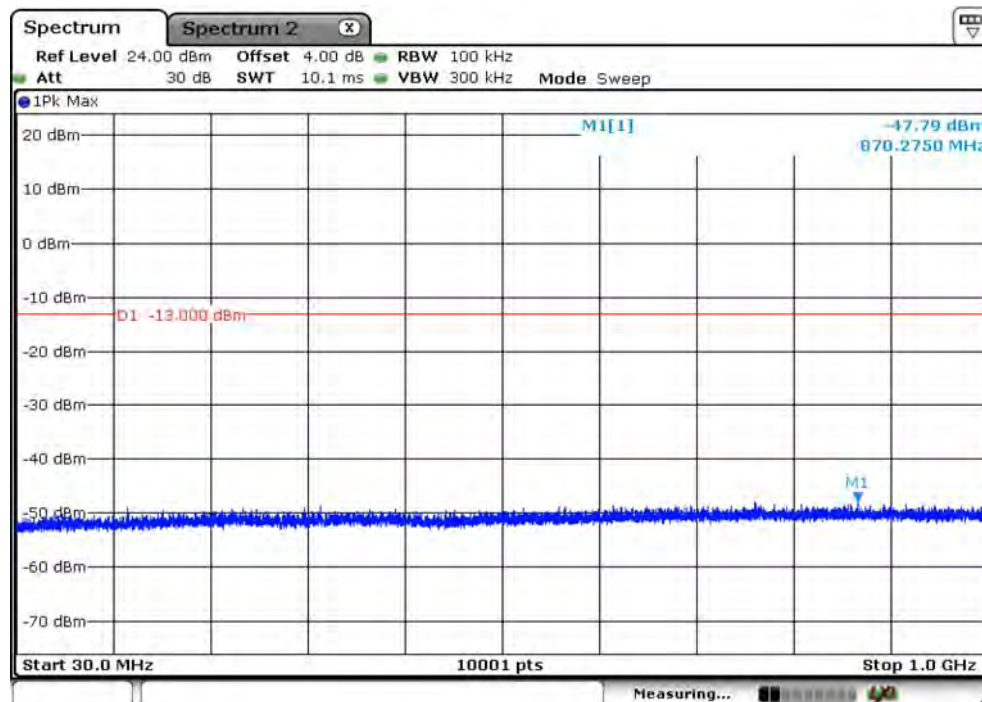
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.8
ANSI C63.26-2015 Sub-clause 5.5.3.2

6.4. Test Result

Conducted Spurious Emission

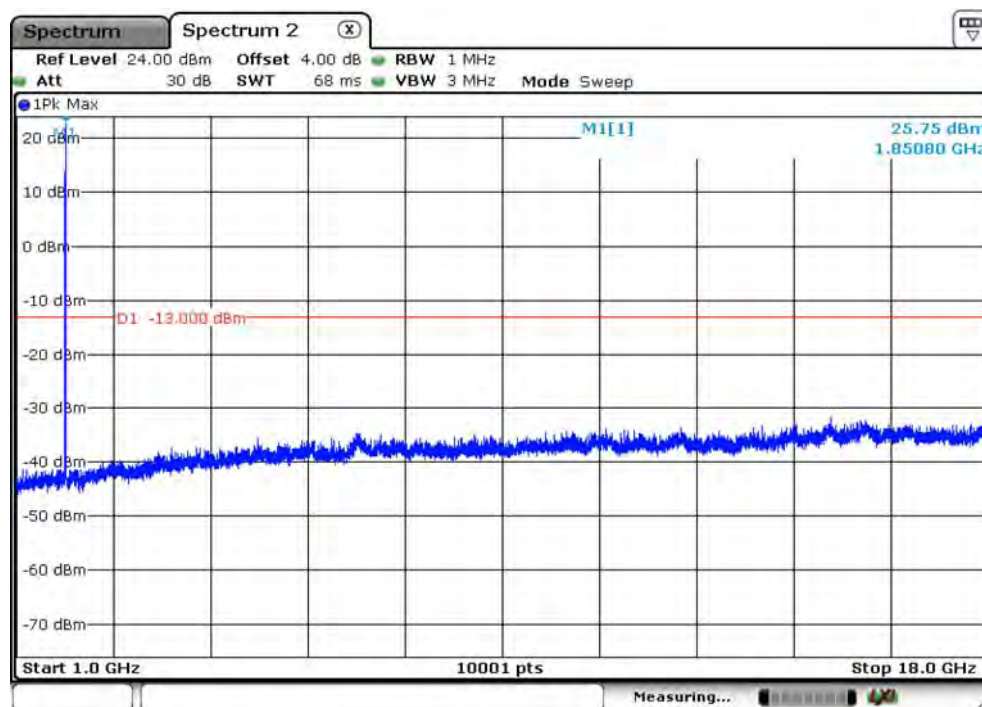
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: LTE Band 2/25		
Date of Test	2020/08/26	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	66

B25_CH26047_1.4M_1RB2__QPSK_Below 1G



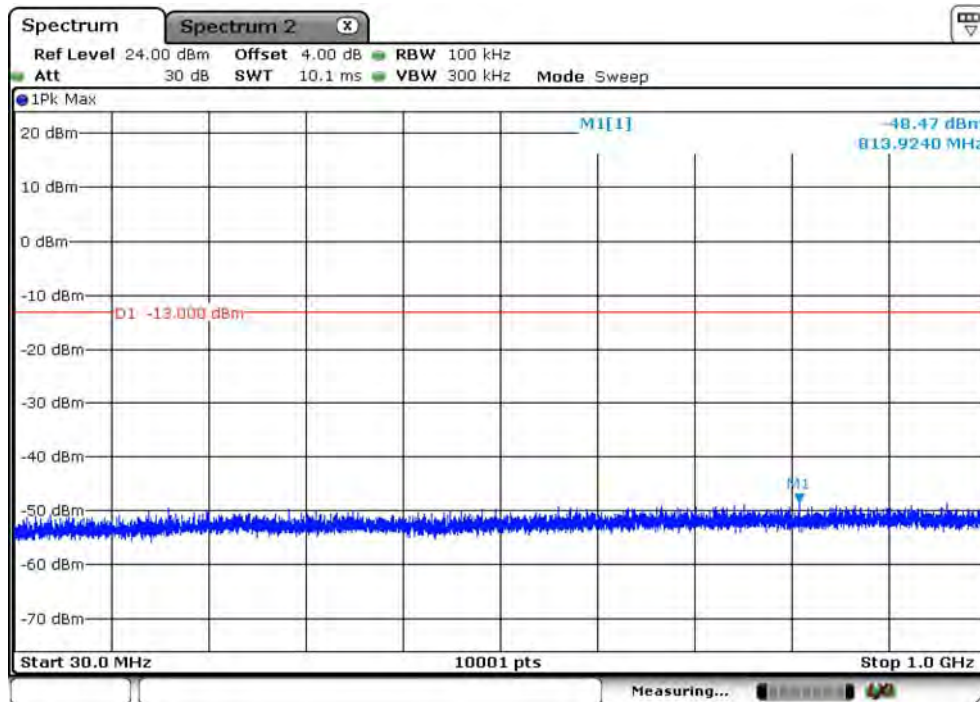
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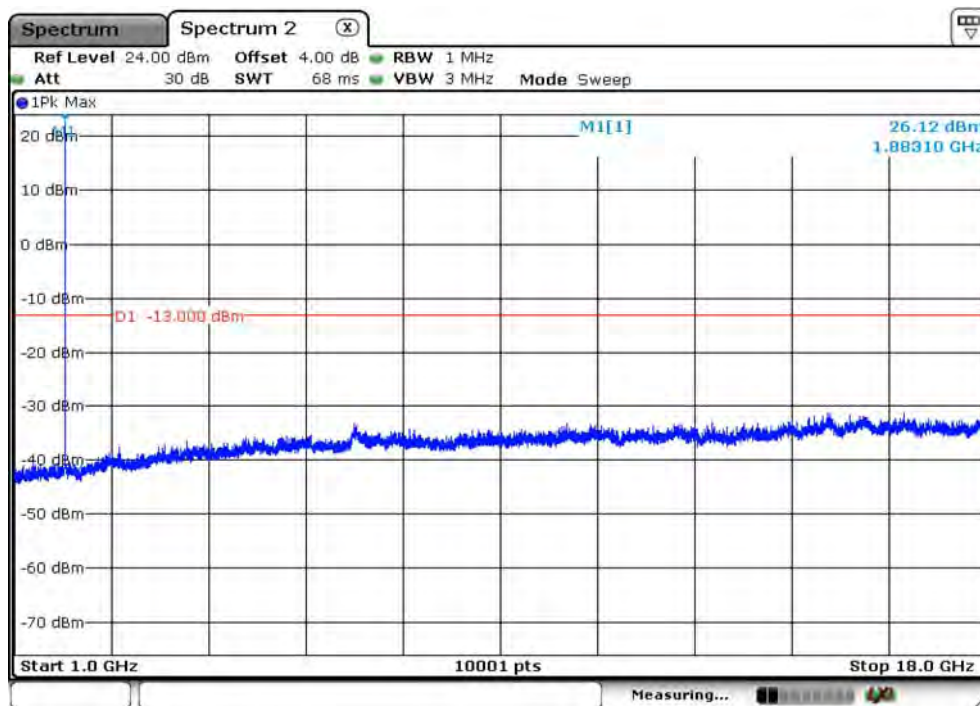
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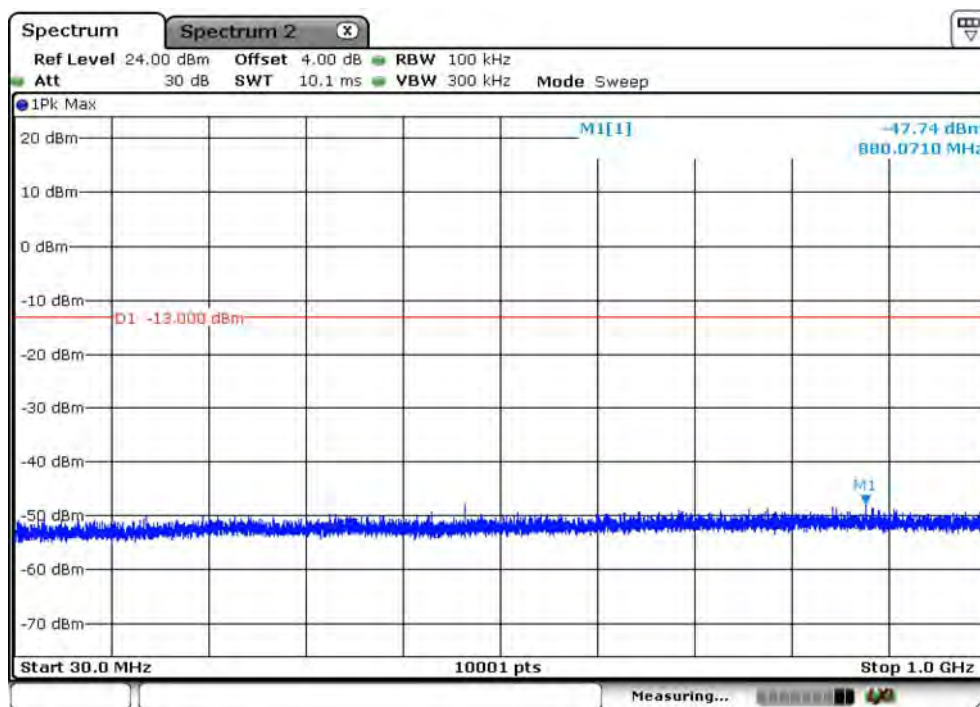
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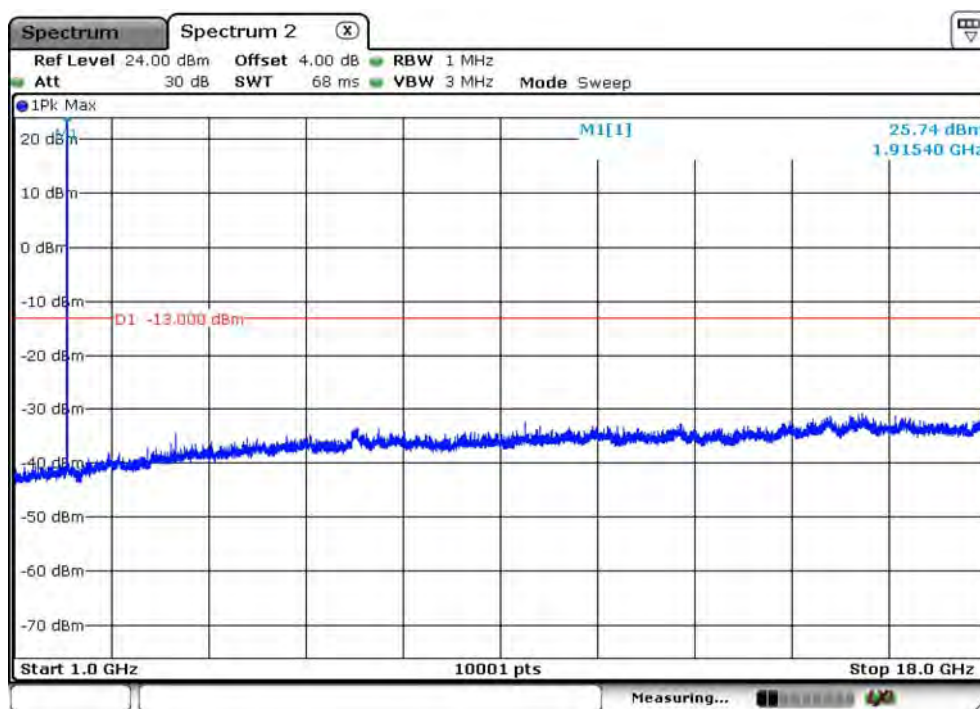
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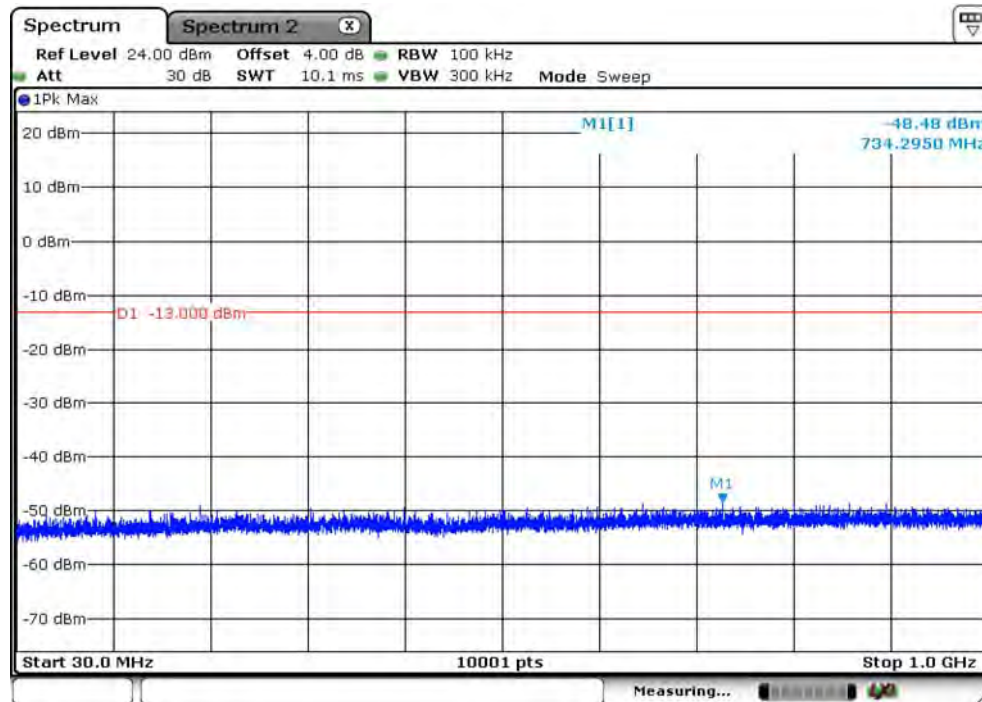
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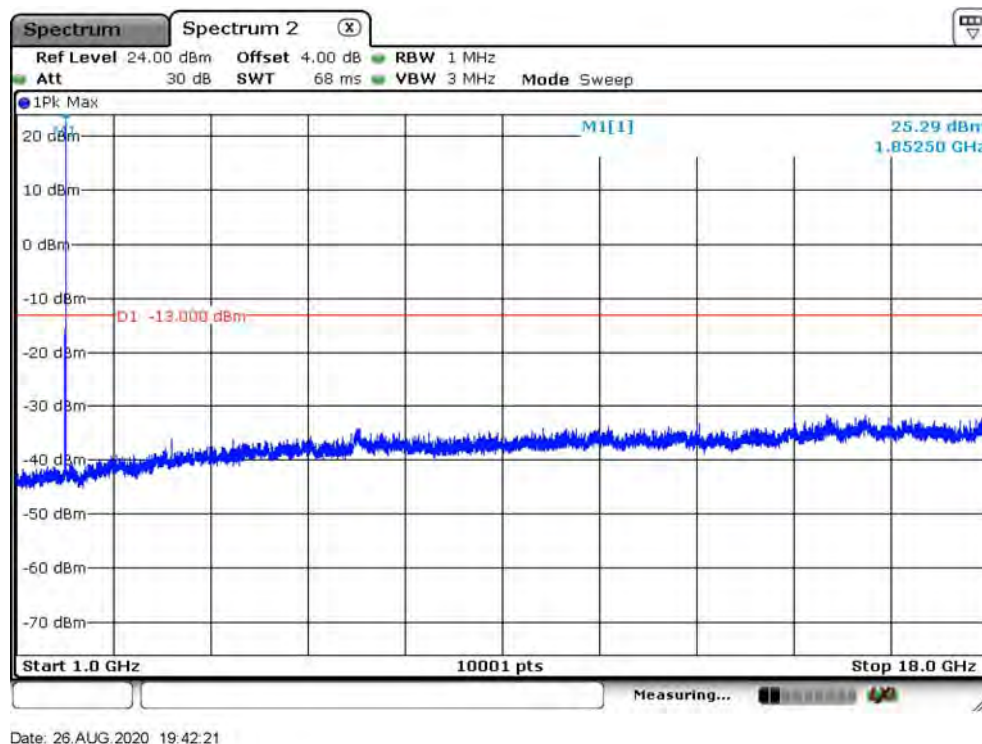


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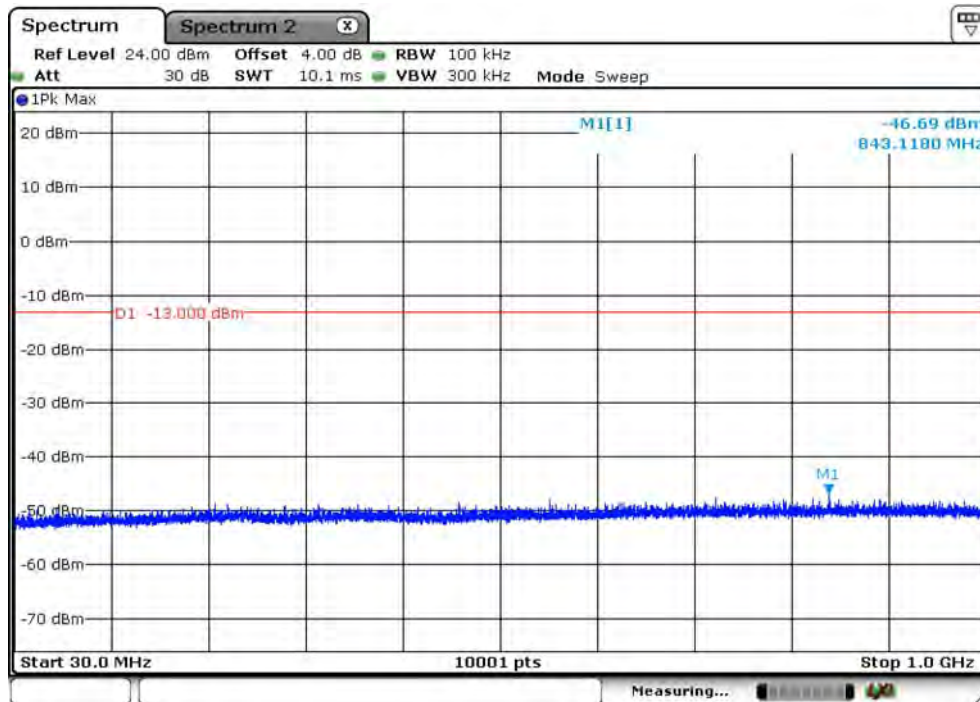
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B25_CH26055_3M_1RB7_QPSK_Above 1G

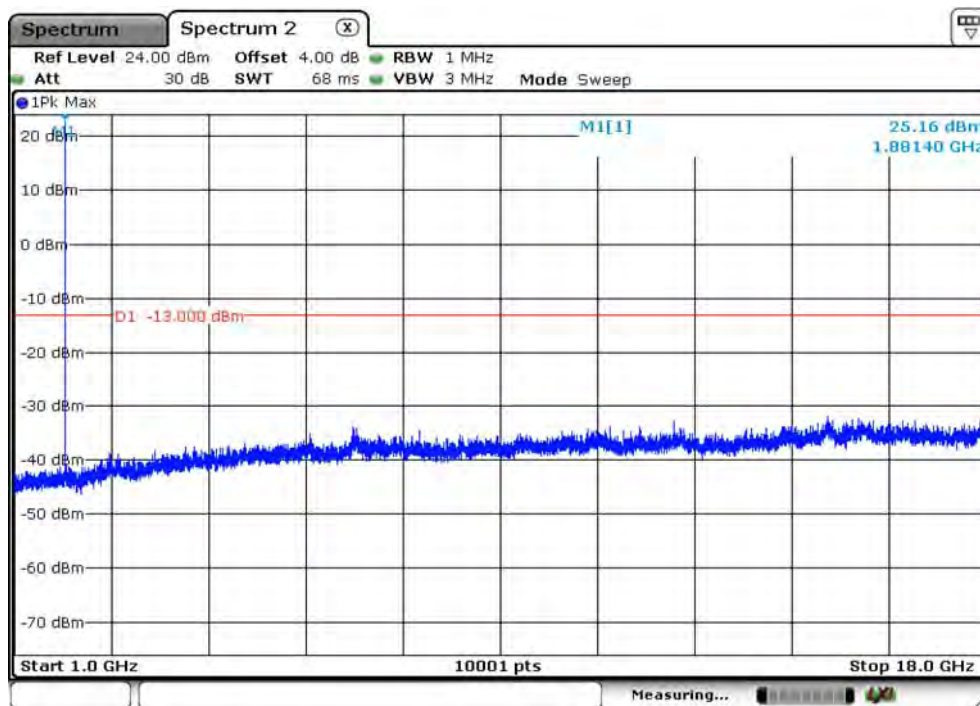


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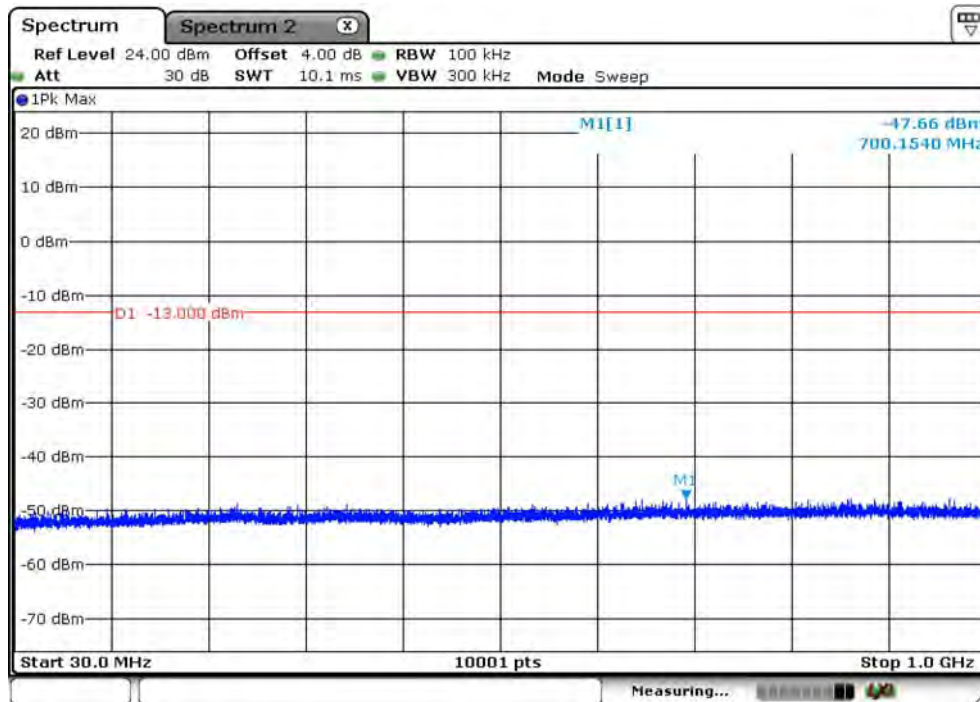
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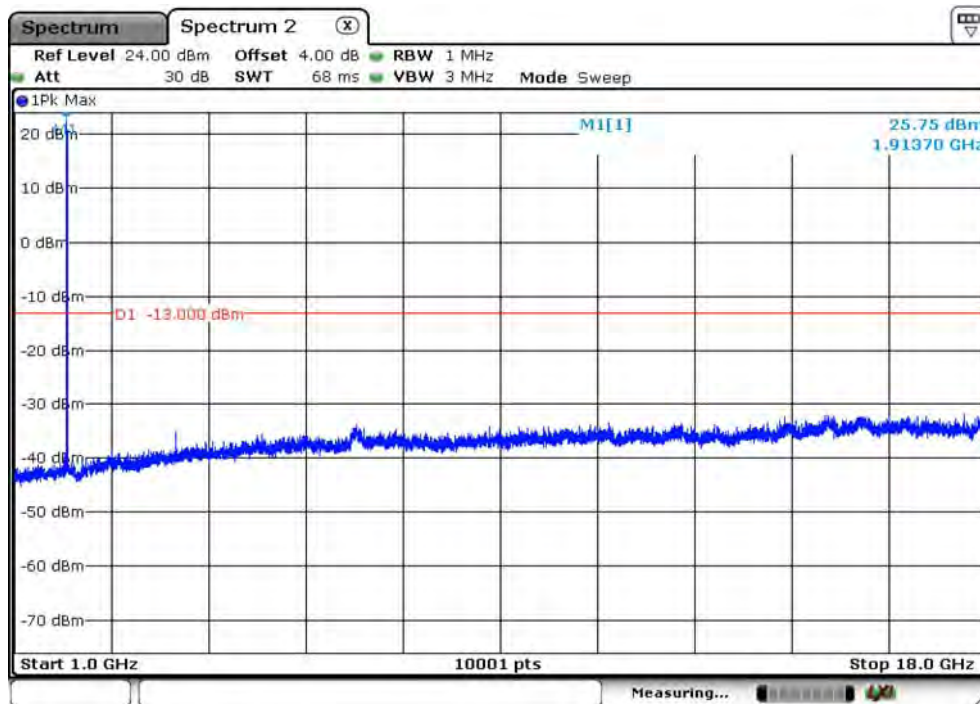
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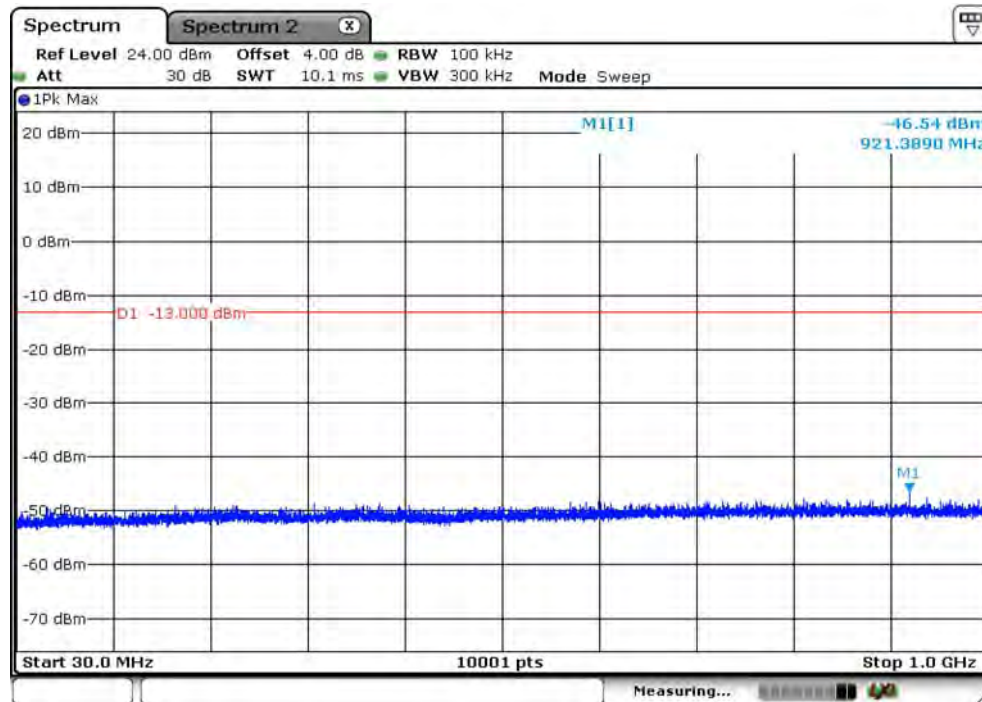
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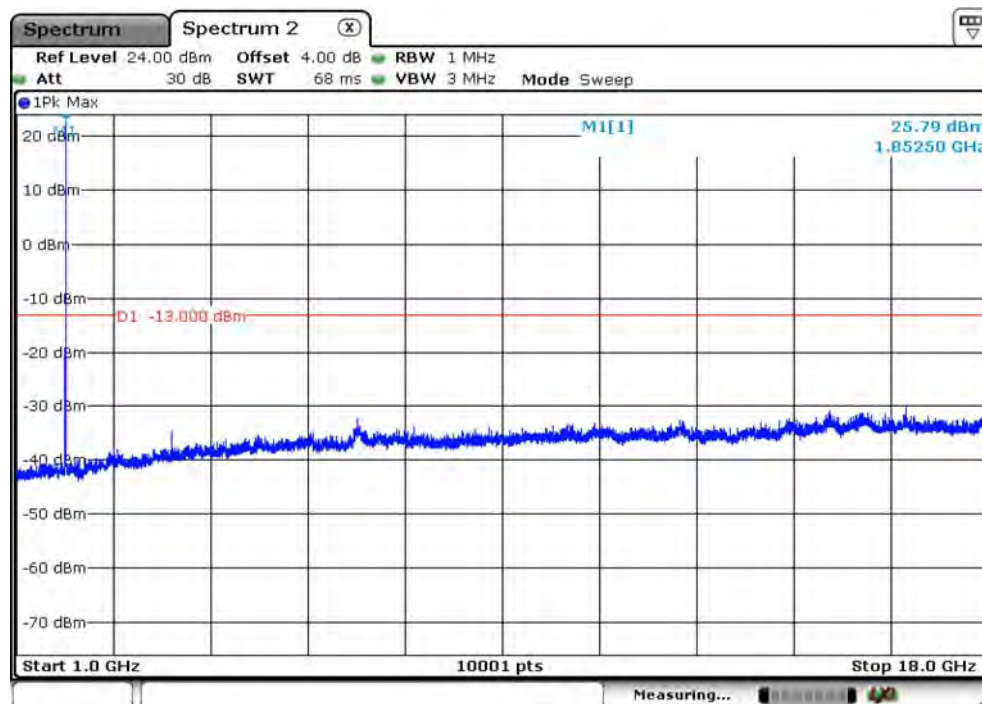
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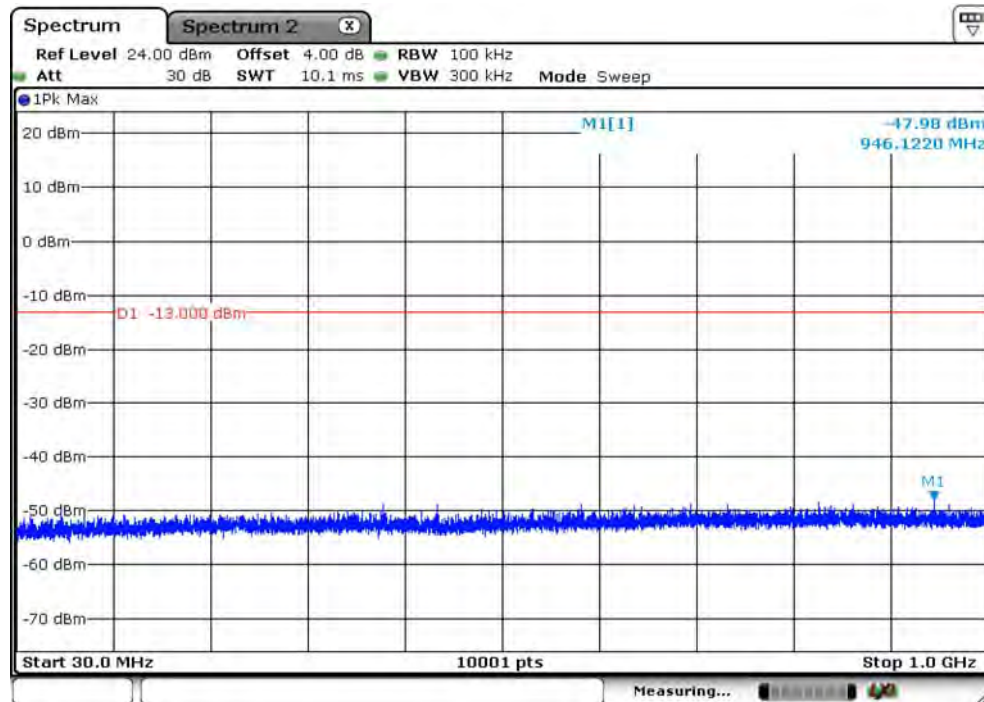
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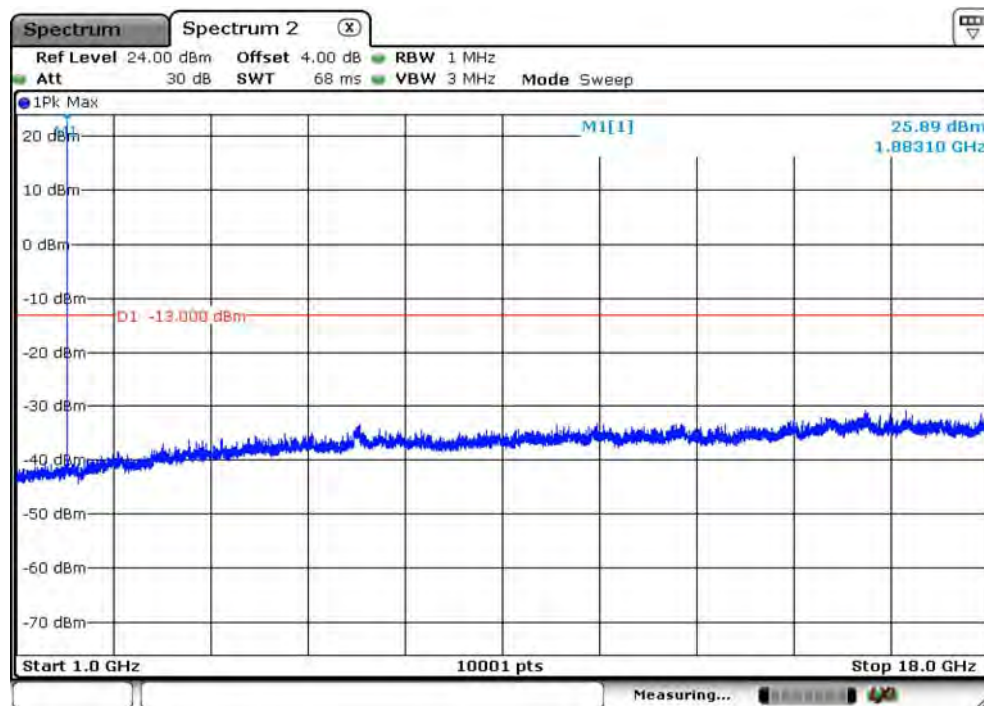
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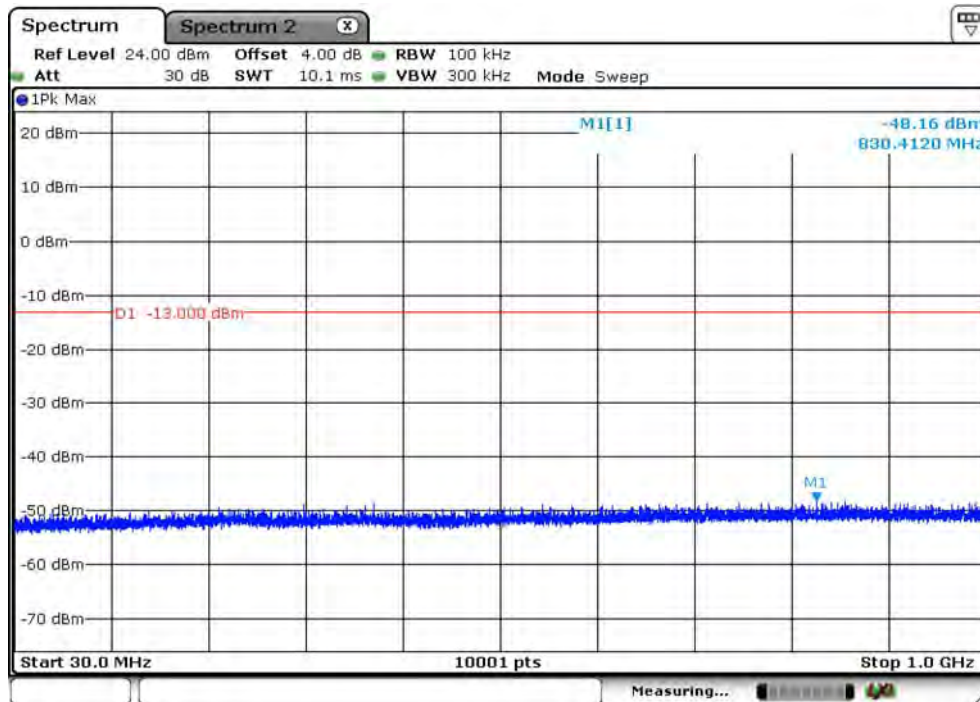
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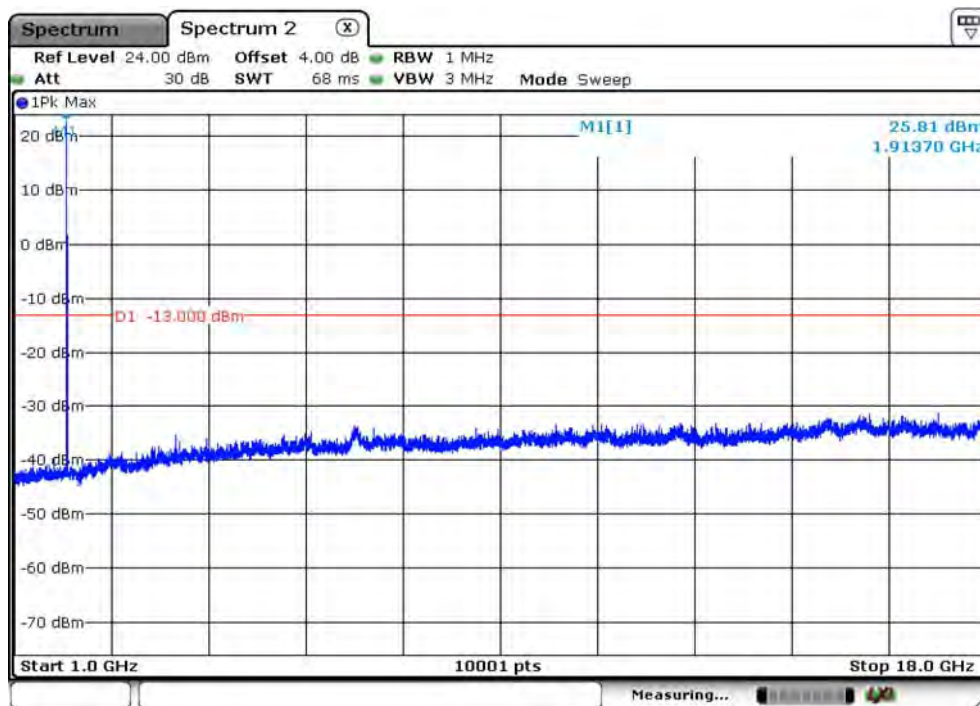
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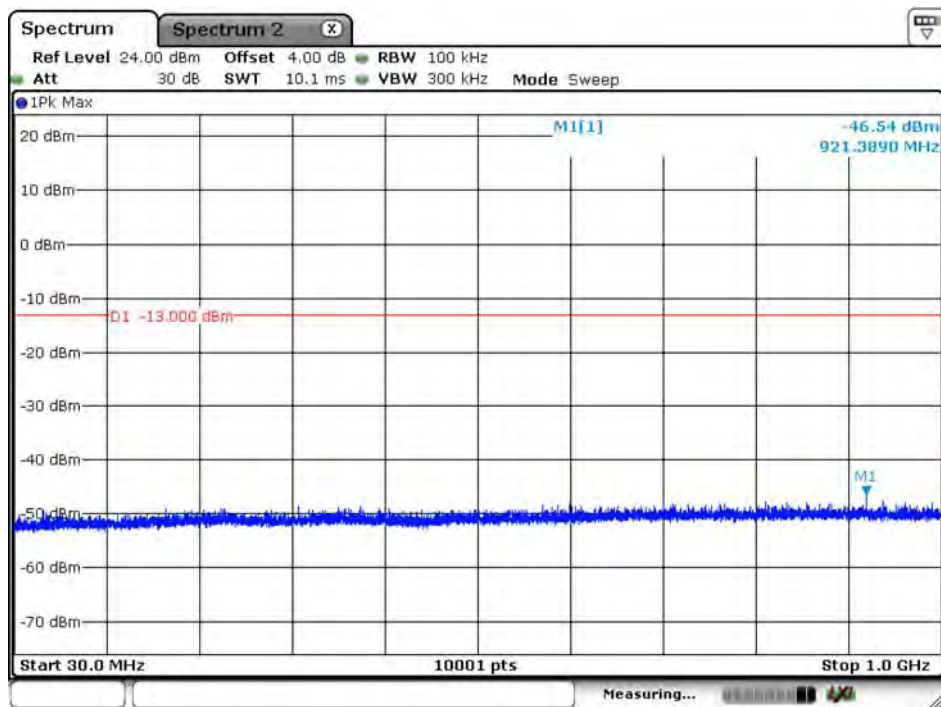
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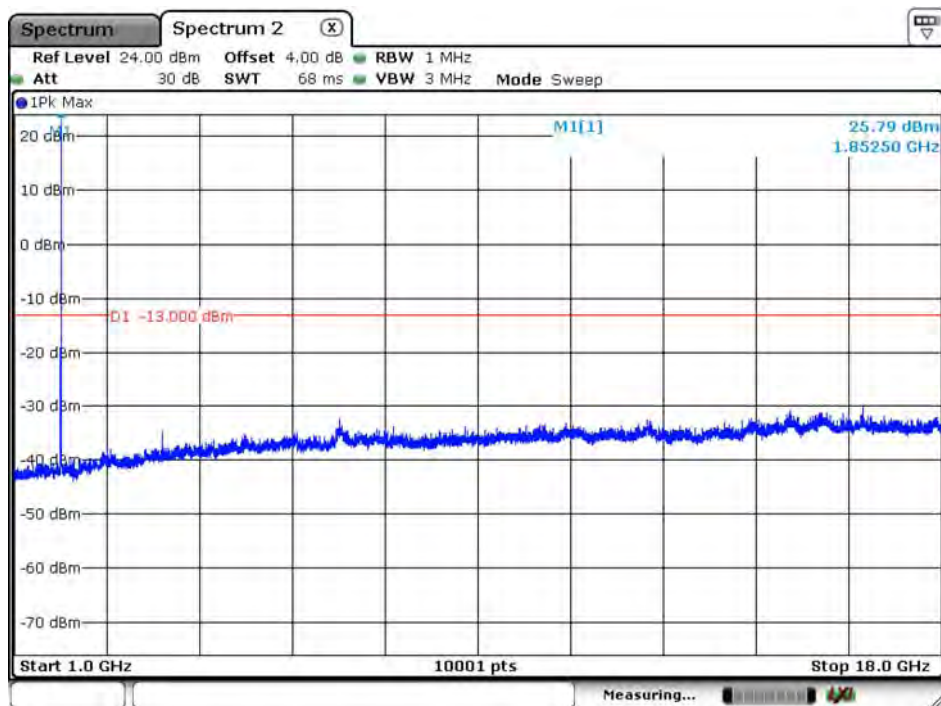
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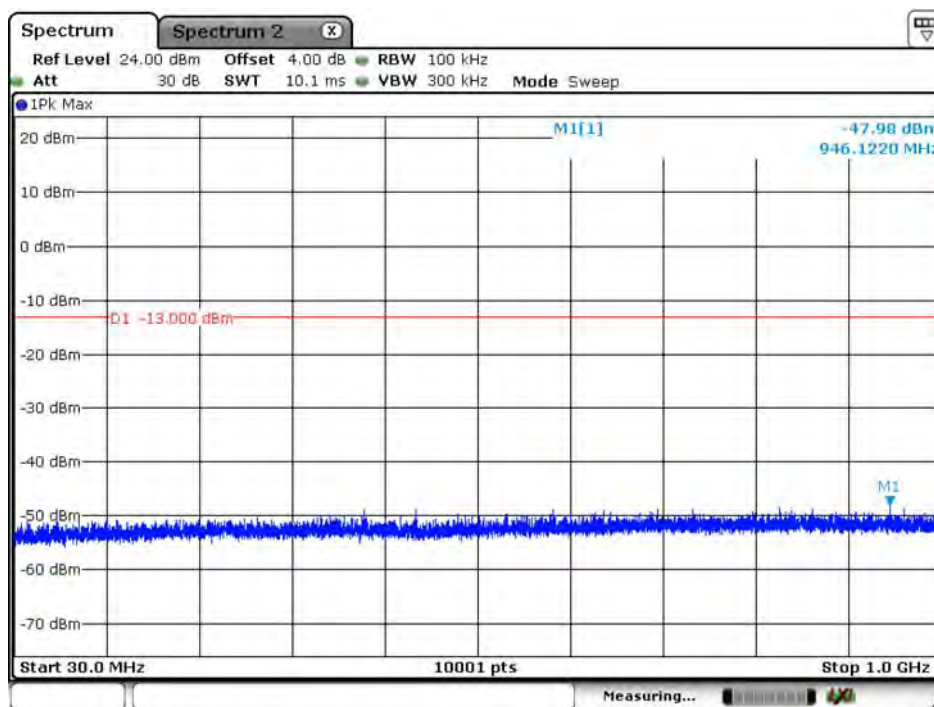
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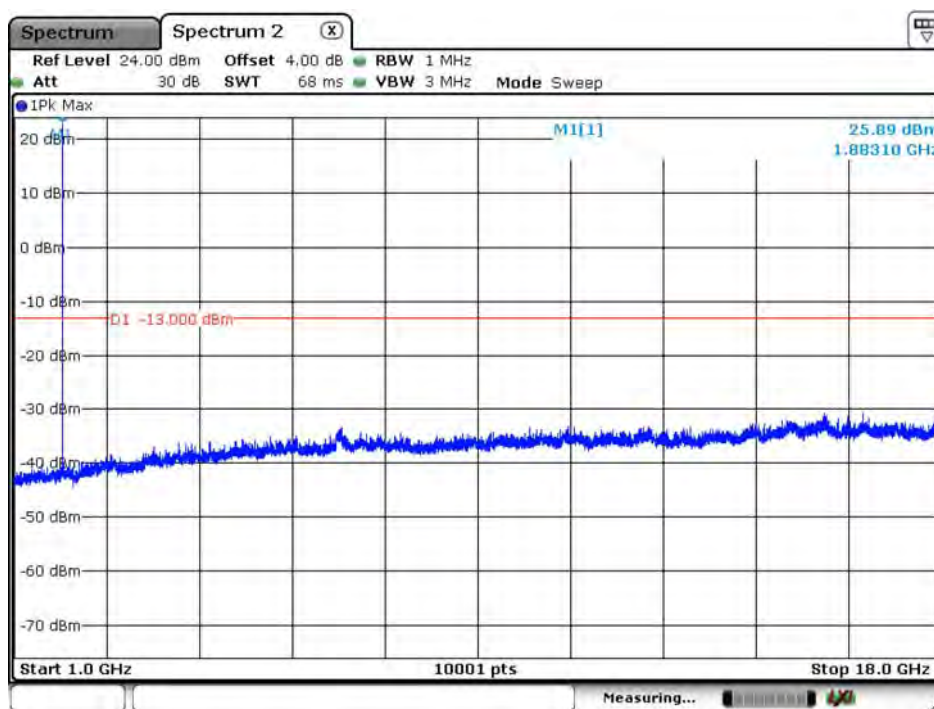
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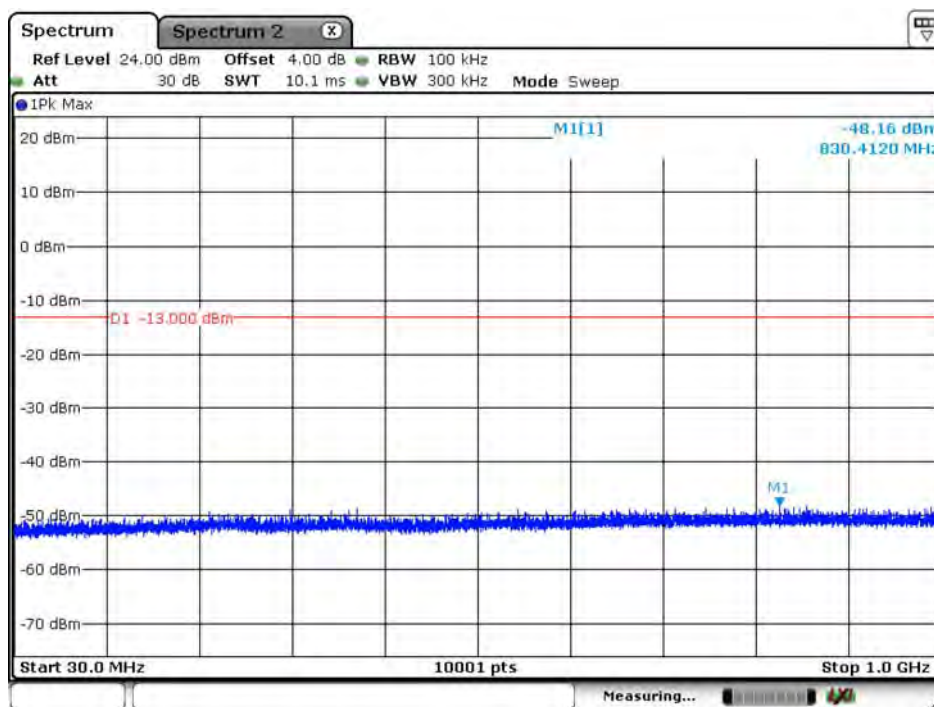
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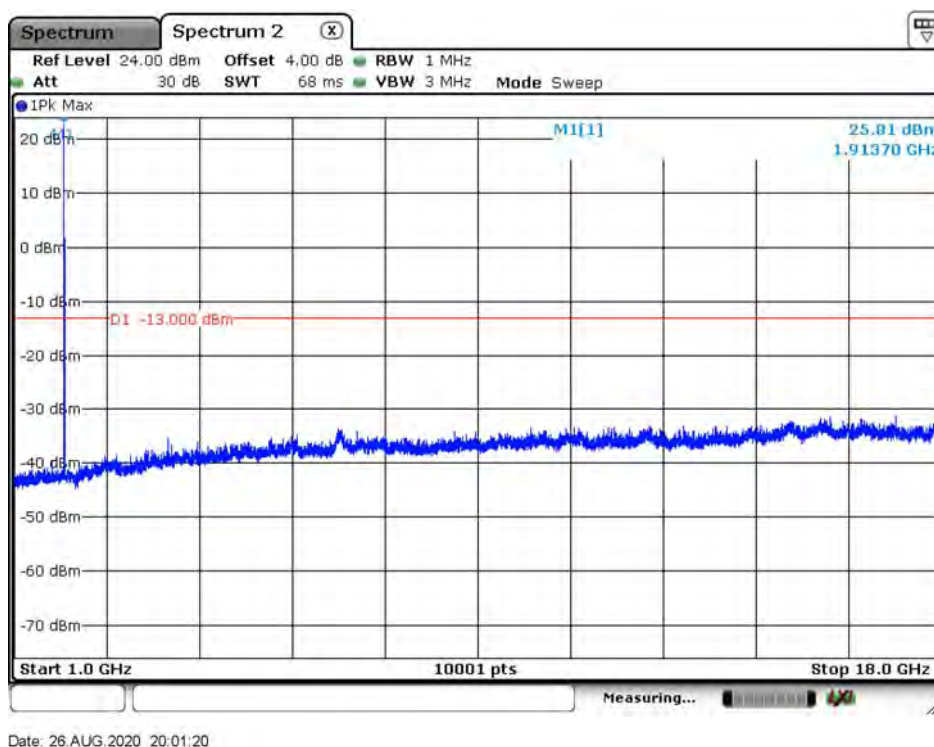


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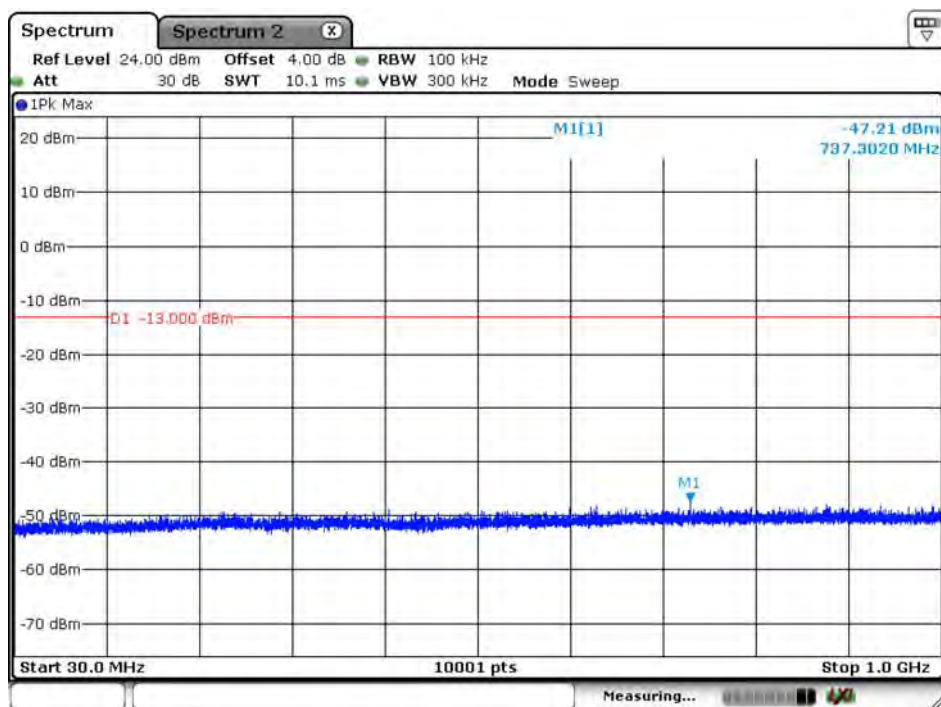
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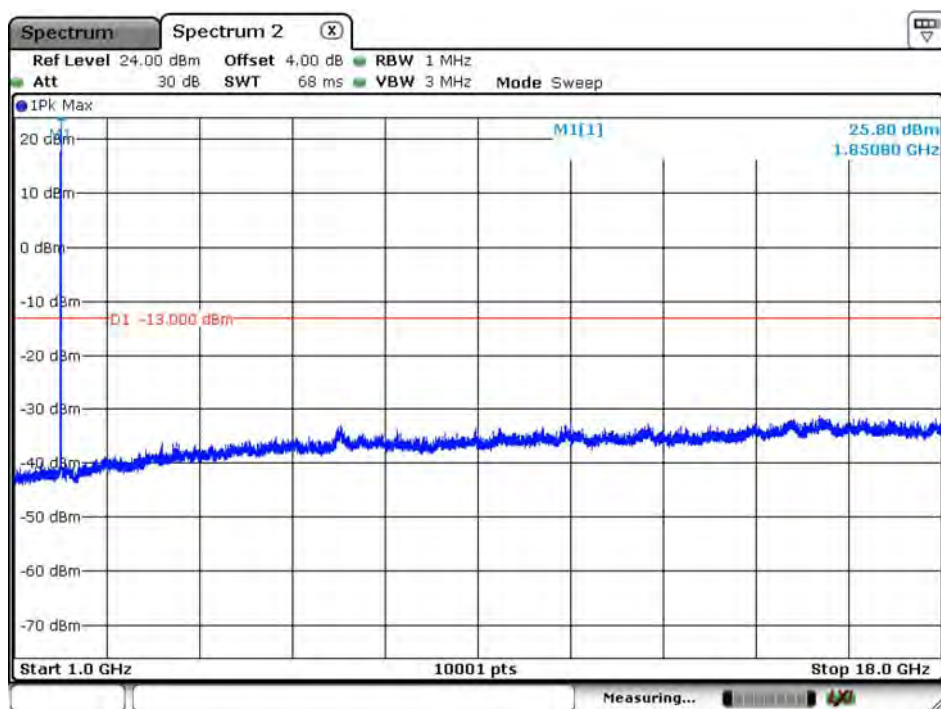


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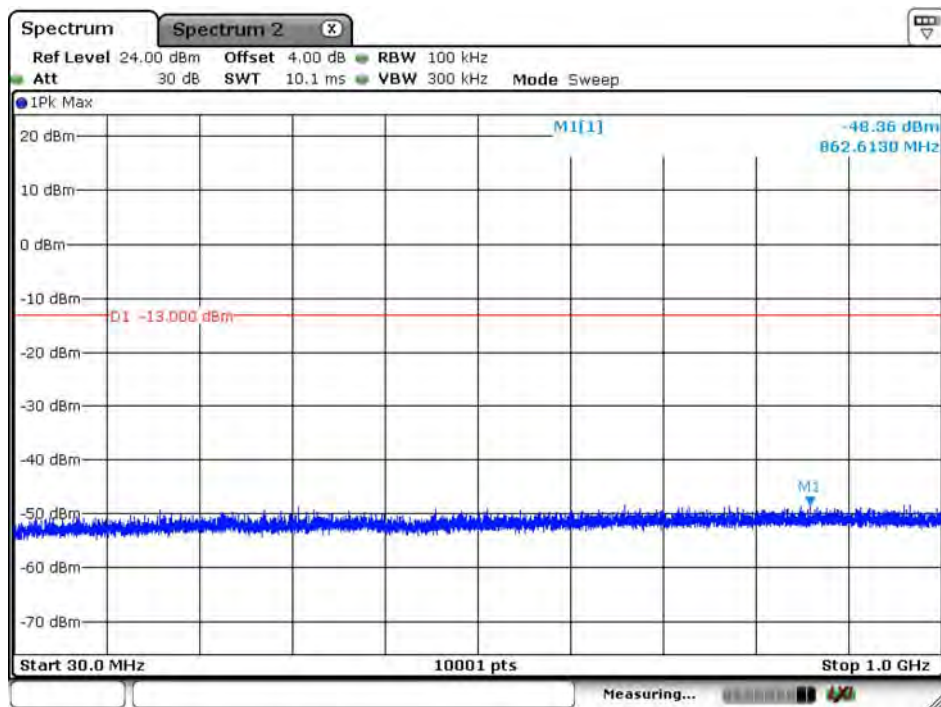
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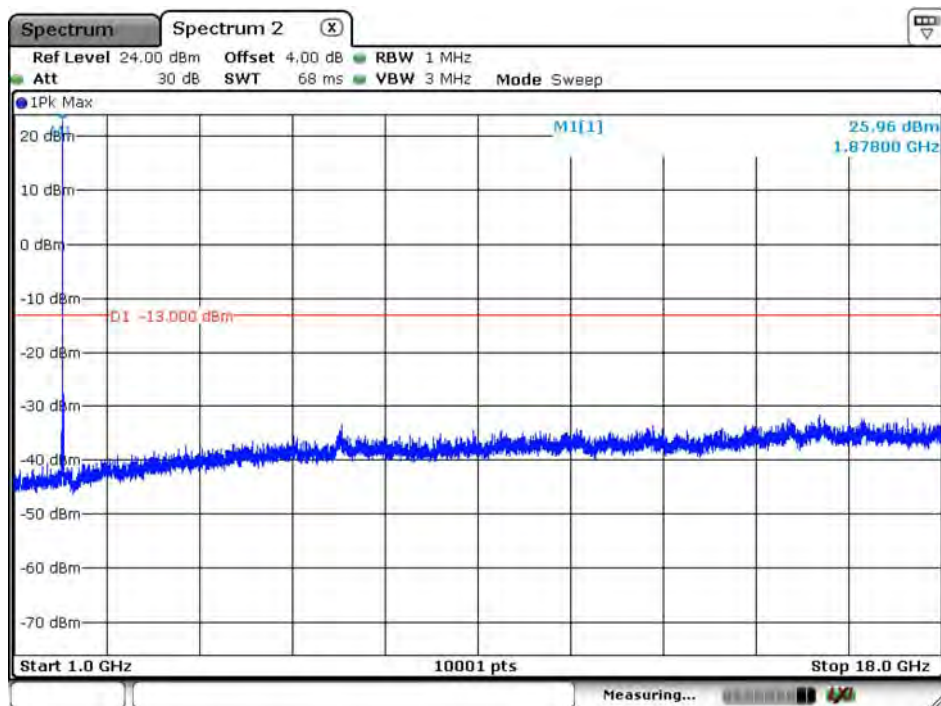
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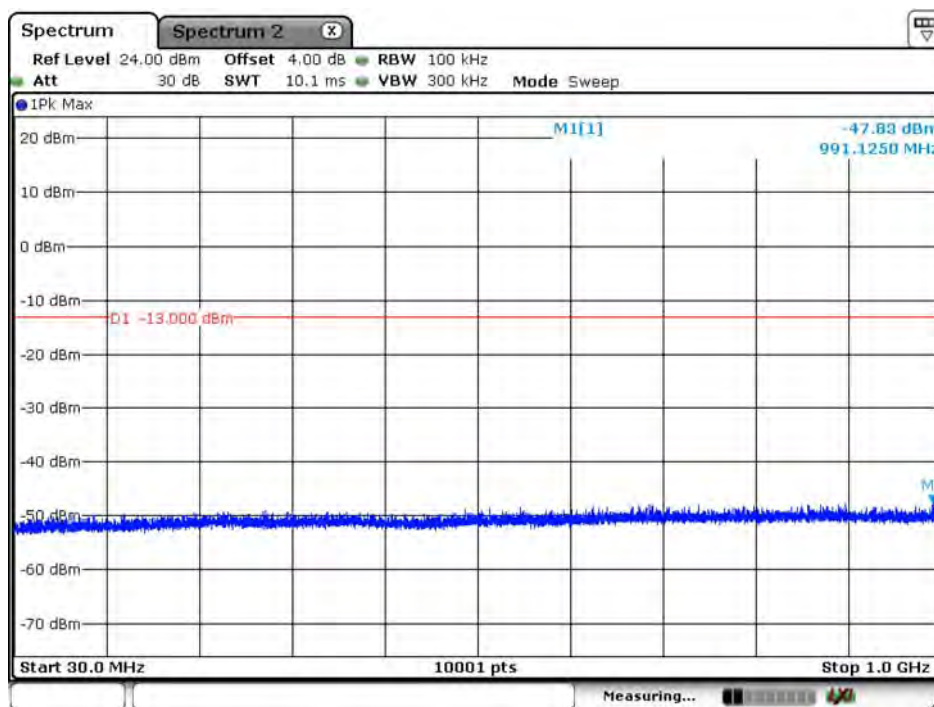
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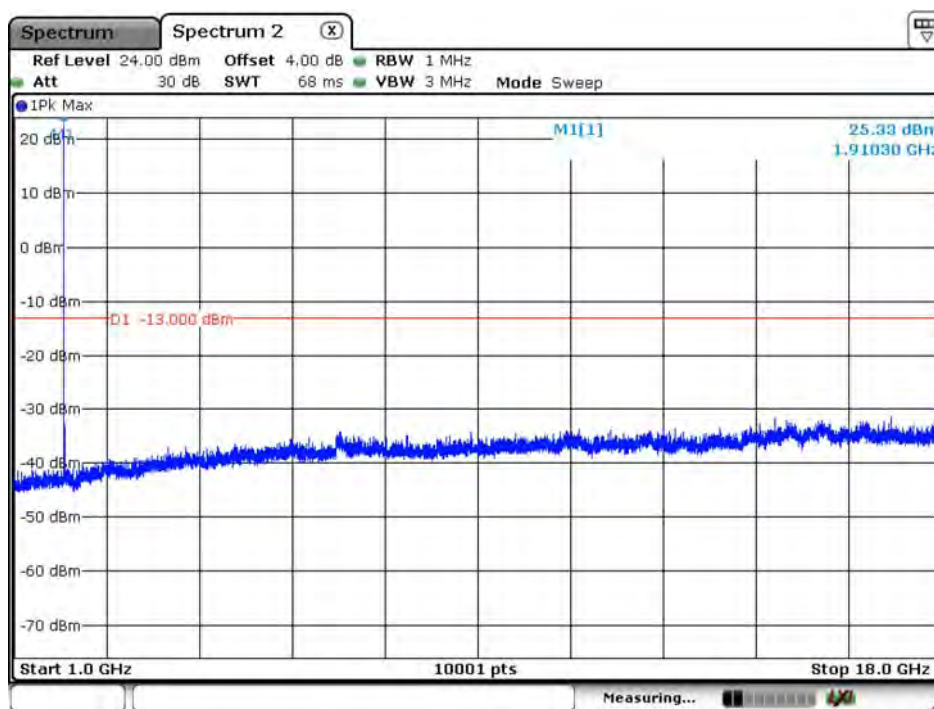
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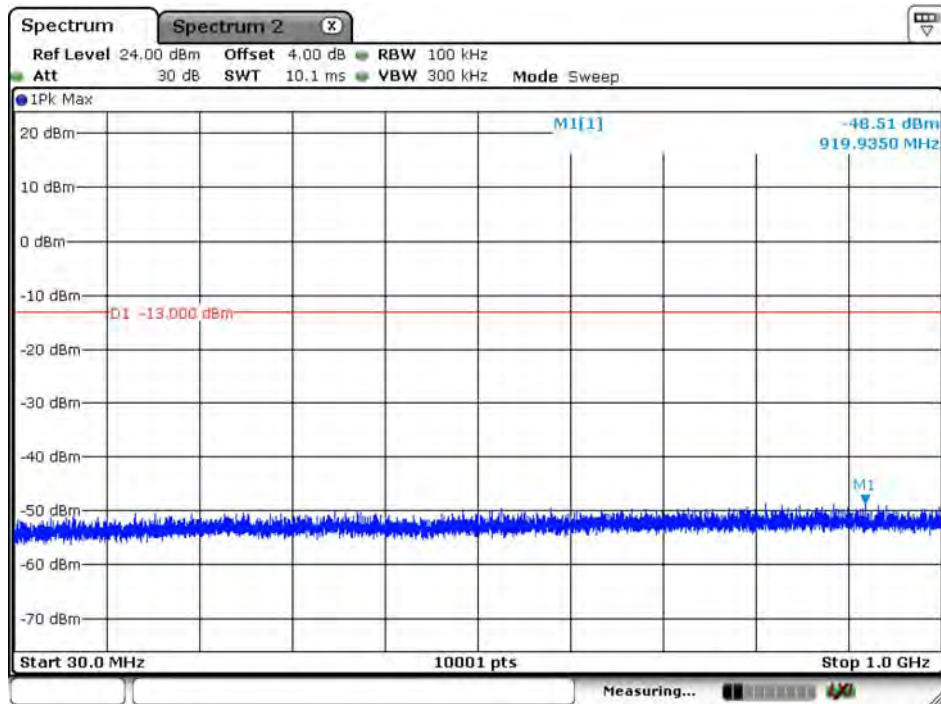
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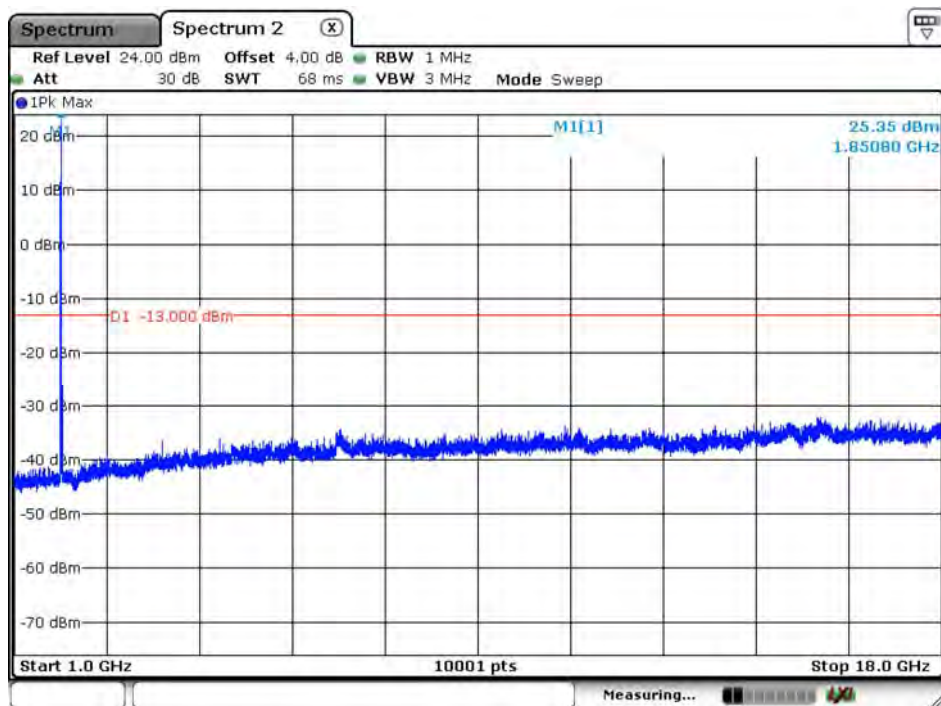
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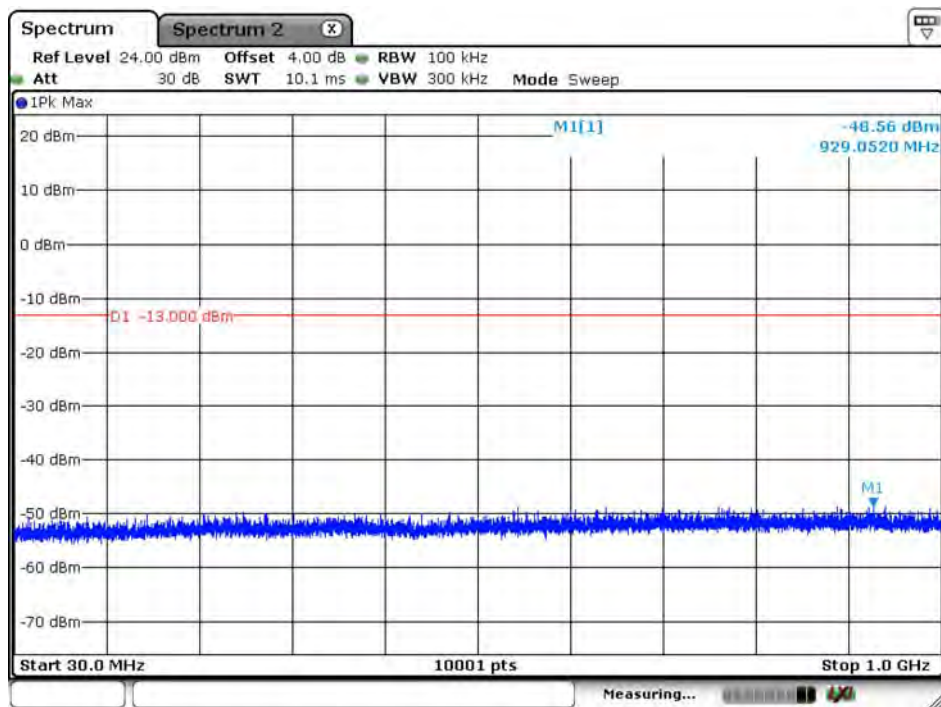
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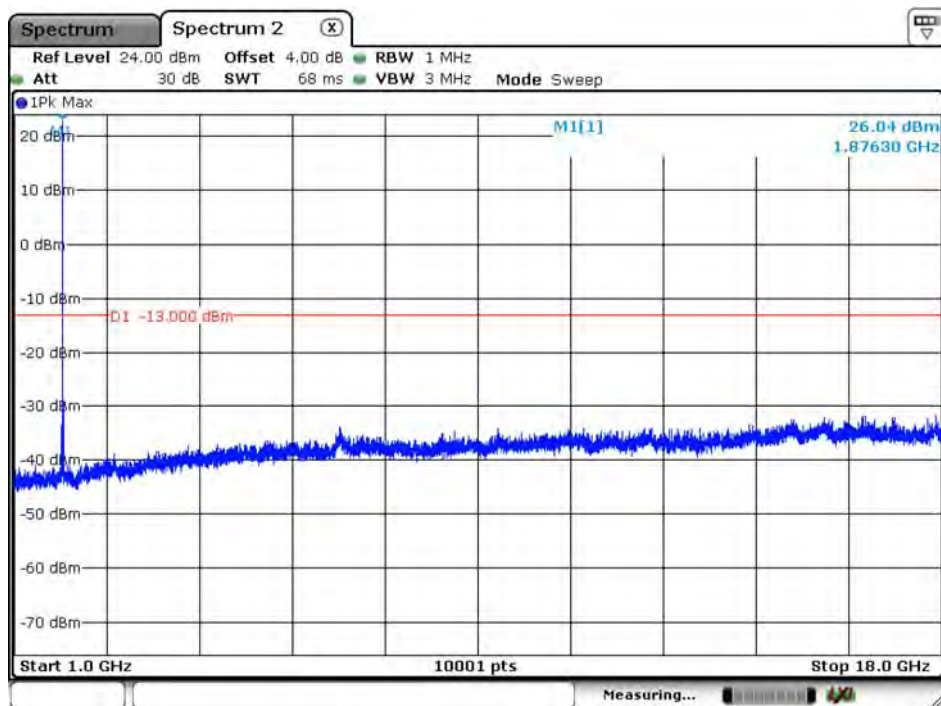
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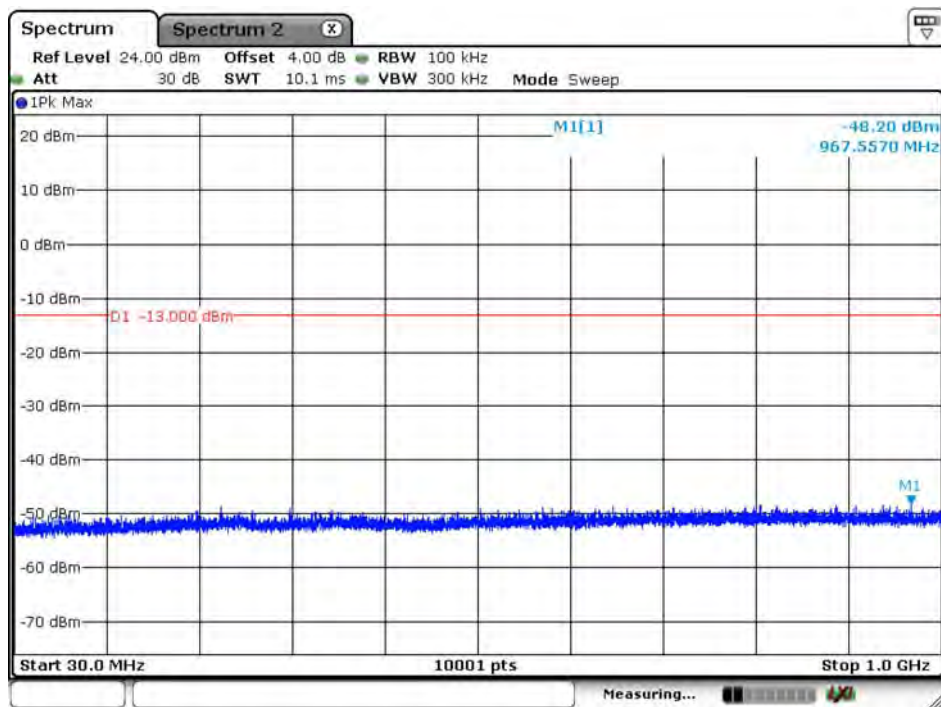
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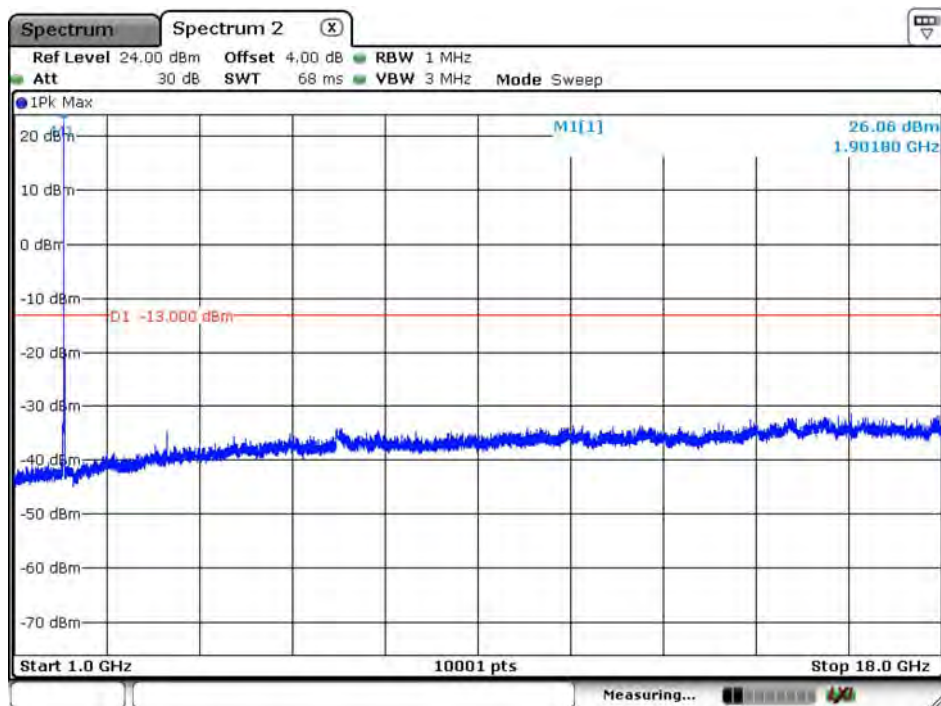


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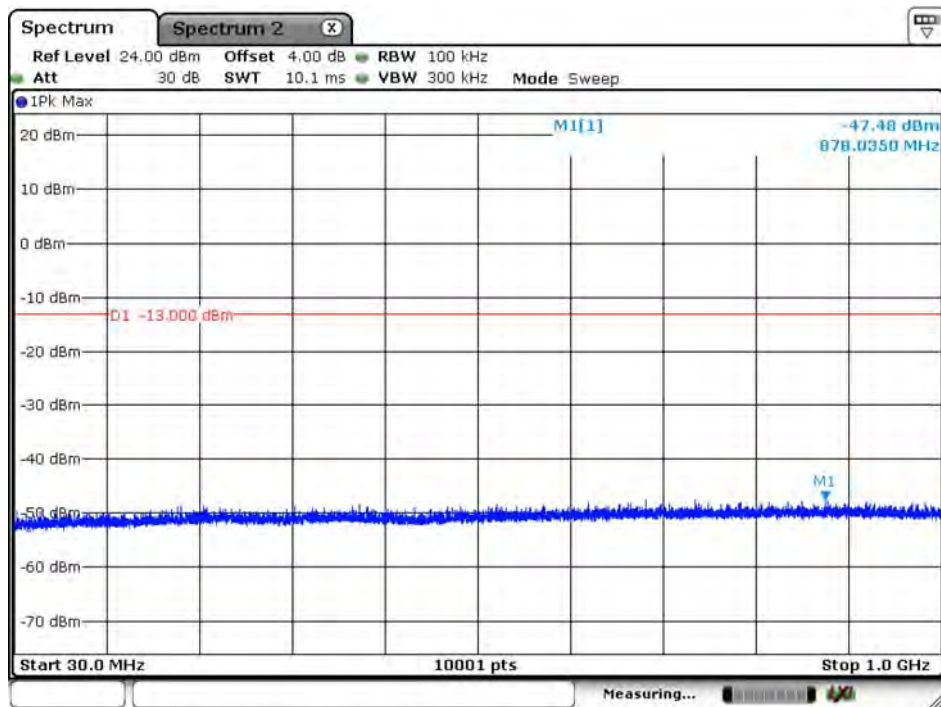
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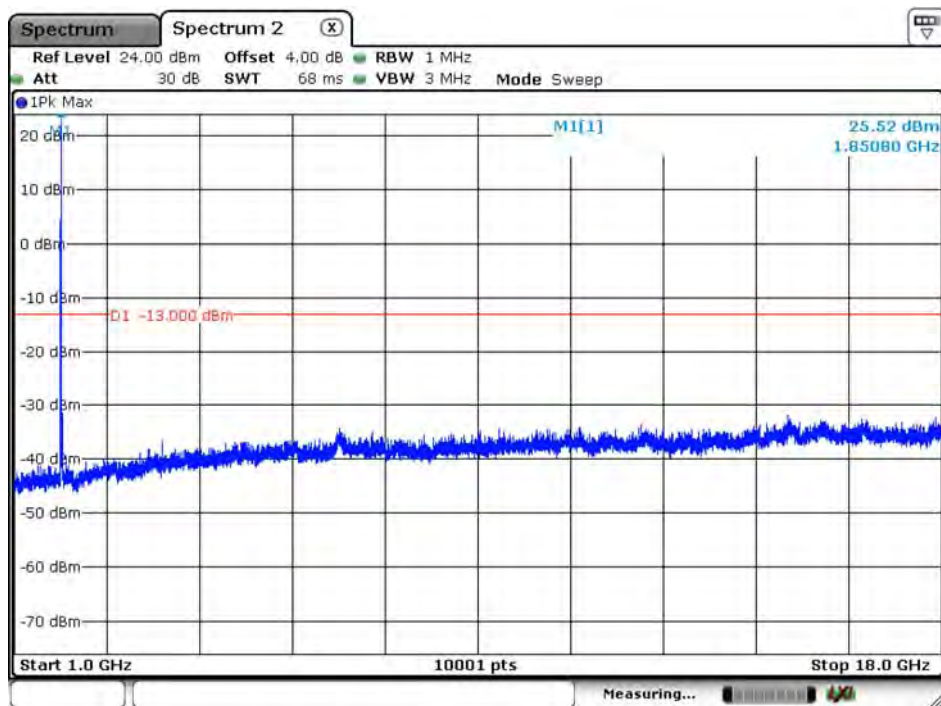


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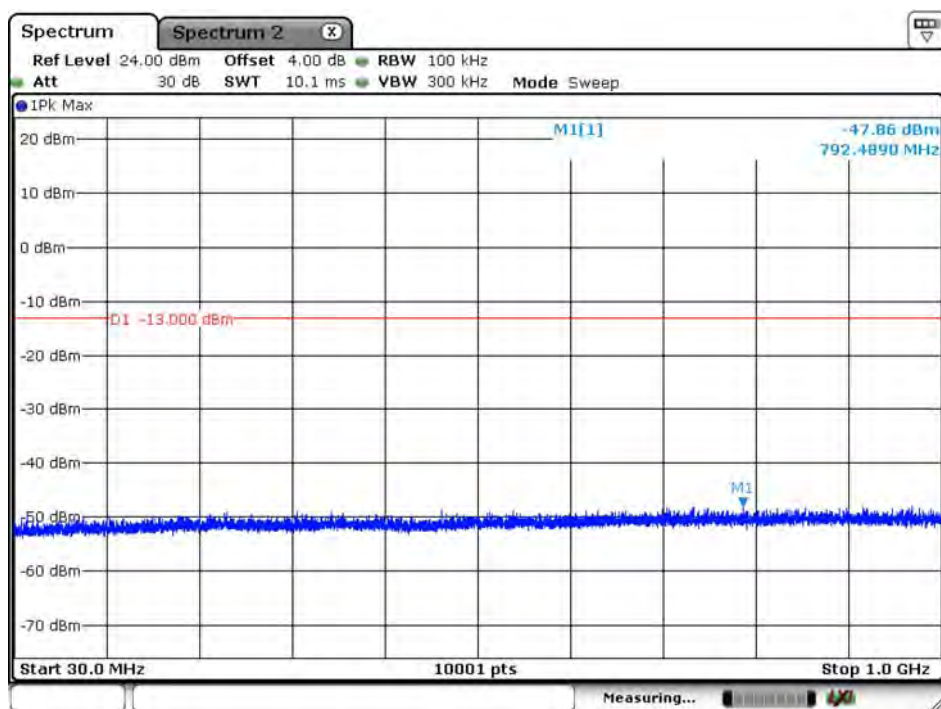
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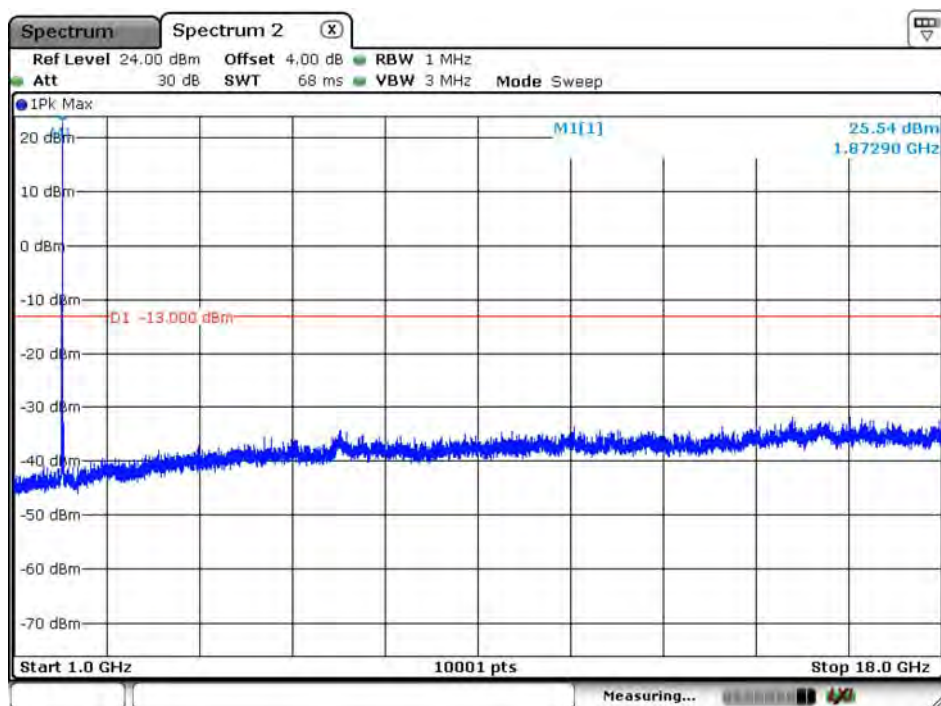
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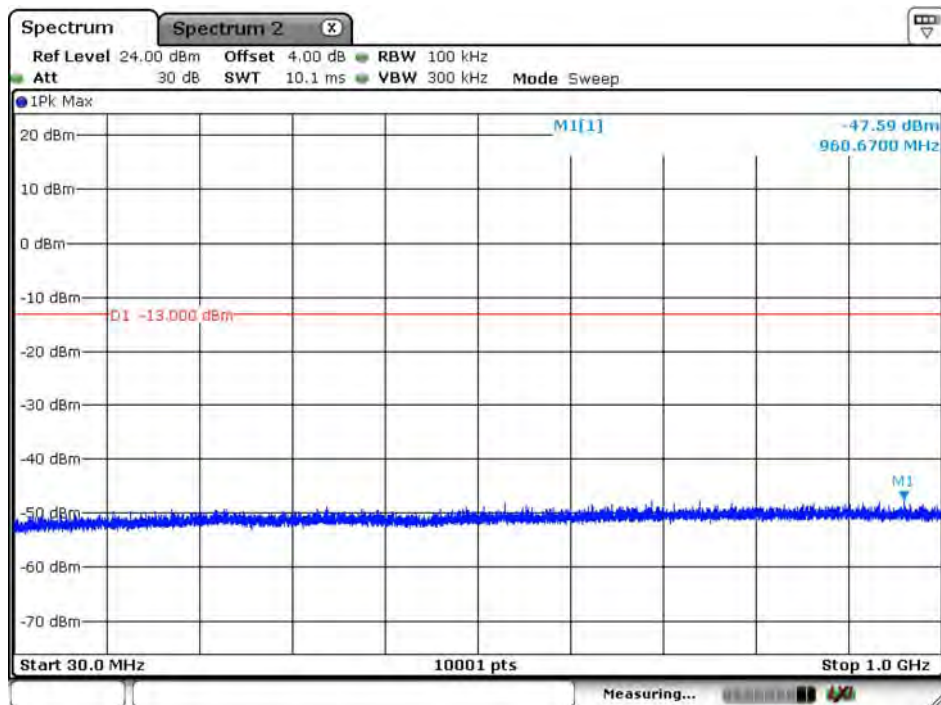
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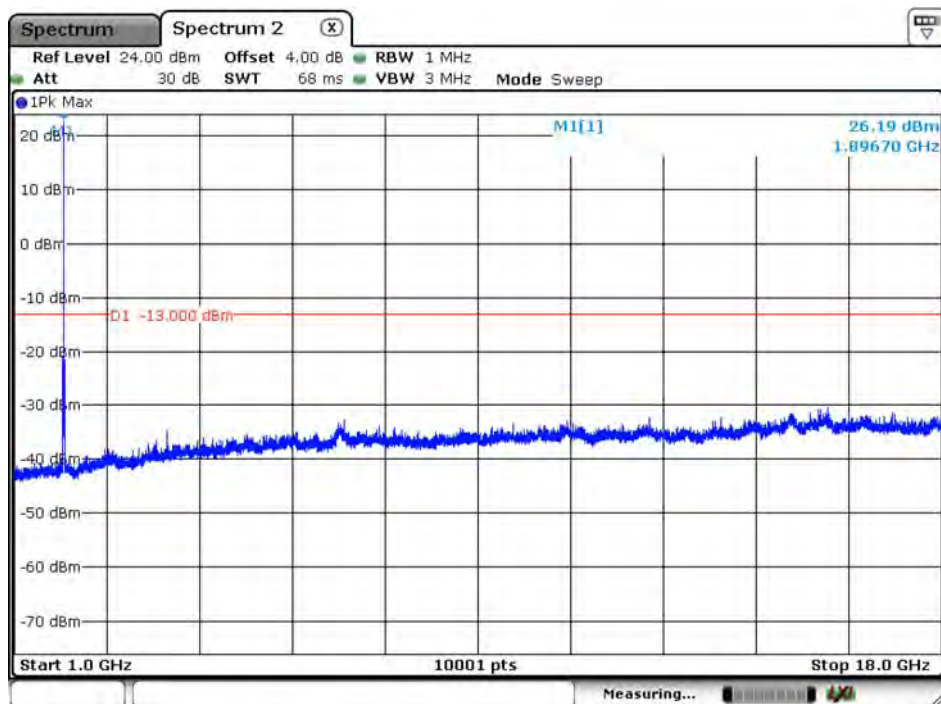
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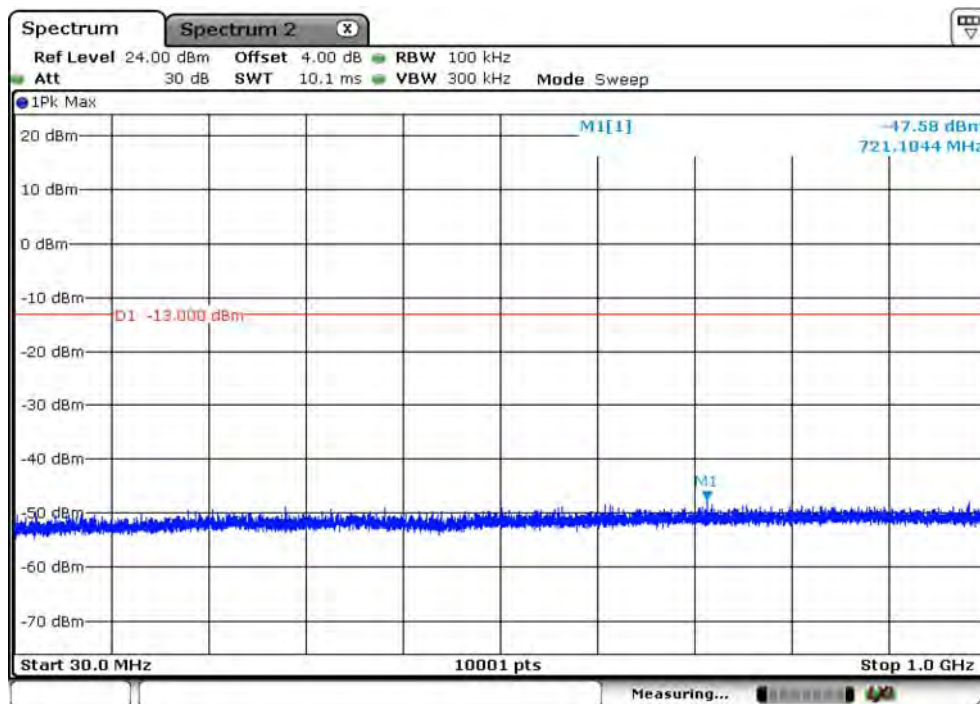
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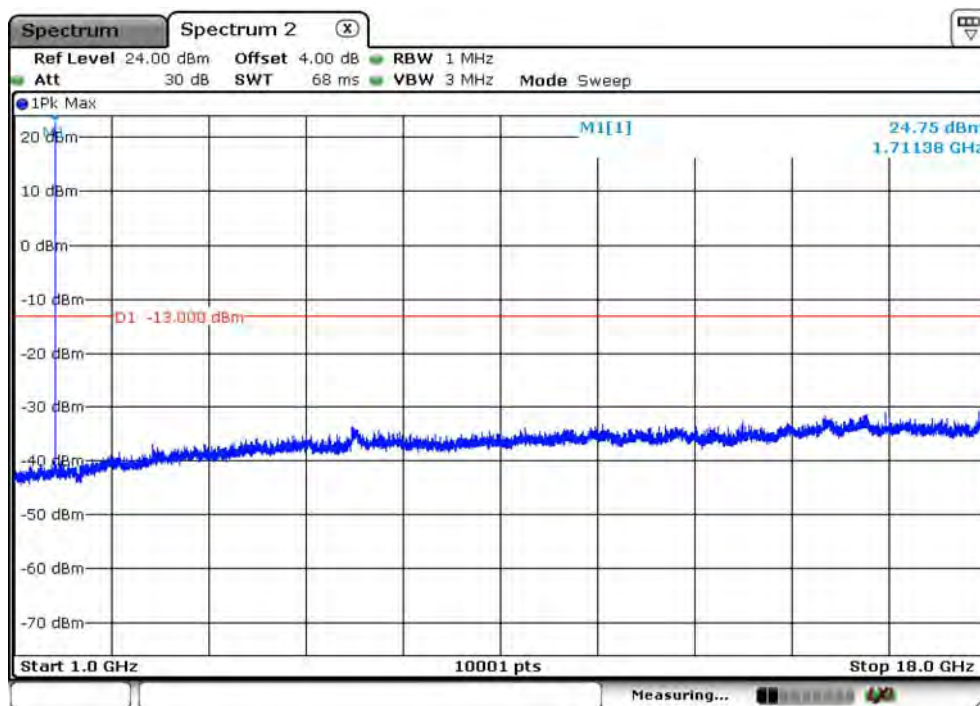
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 2: LTE Band 4/66		
Date of Test	2020/08/26	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	66

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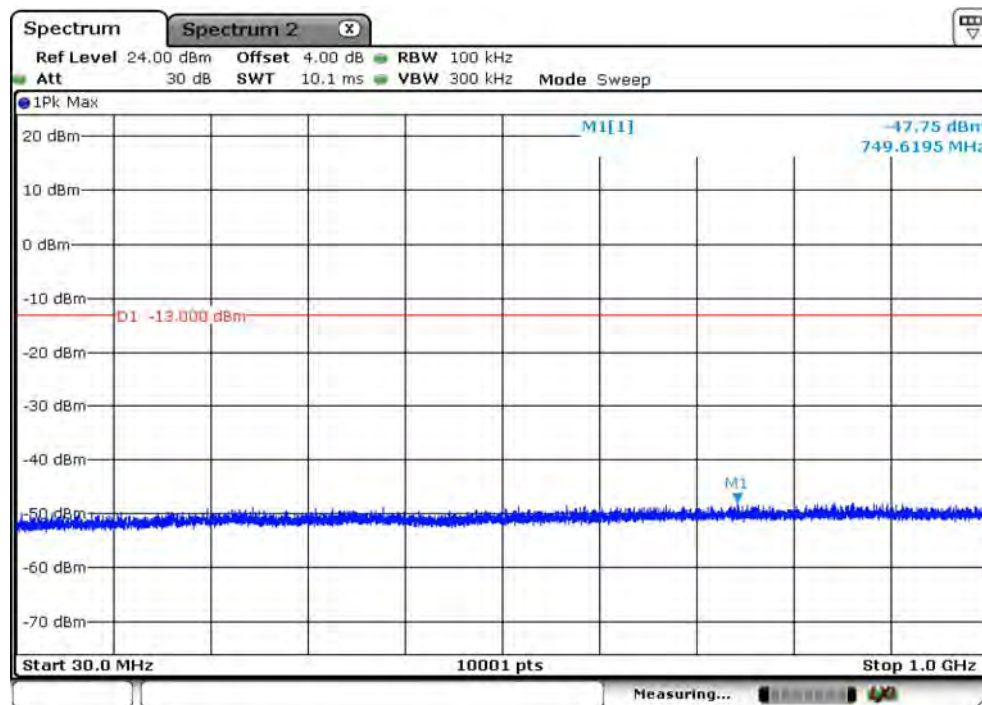
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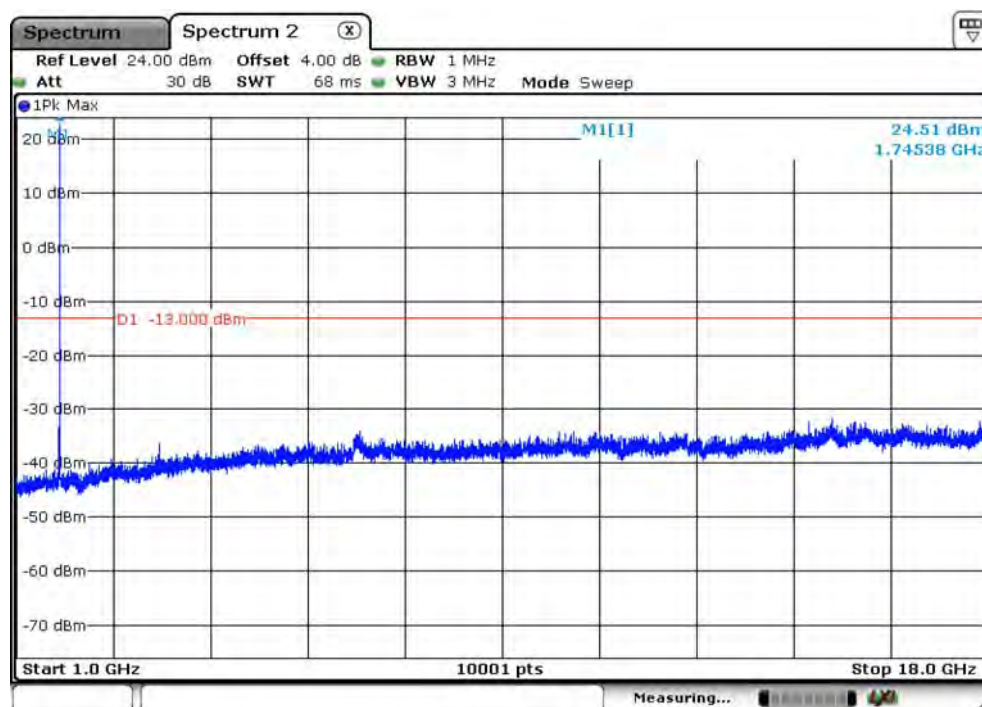
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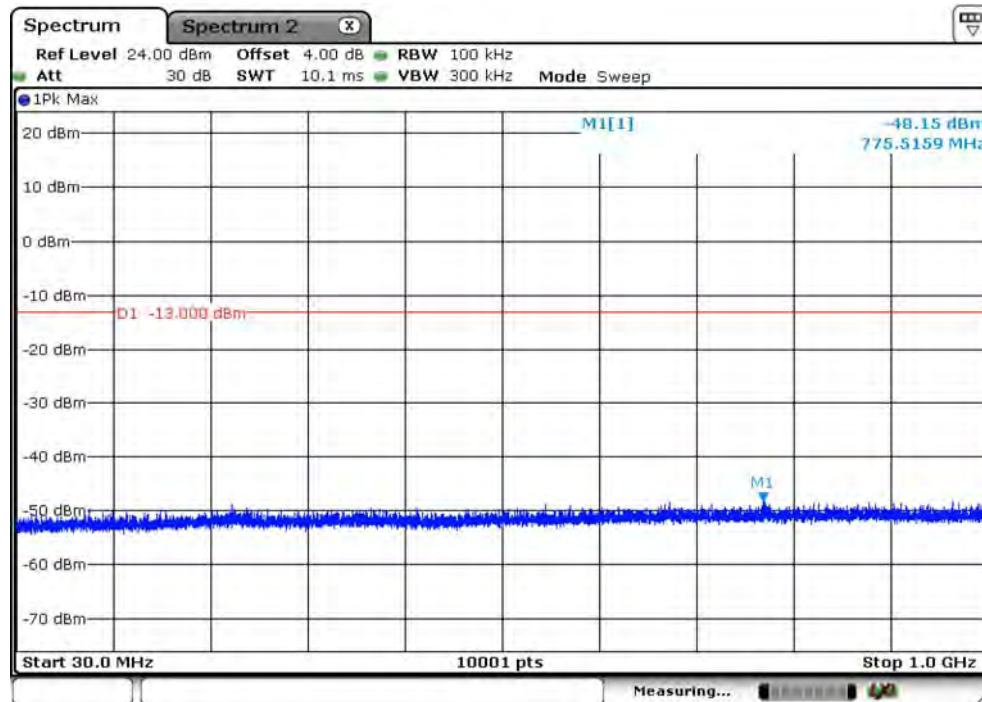
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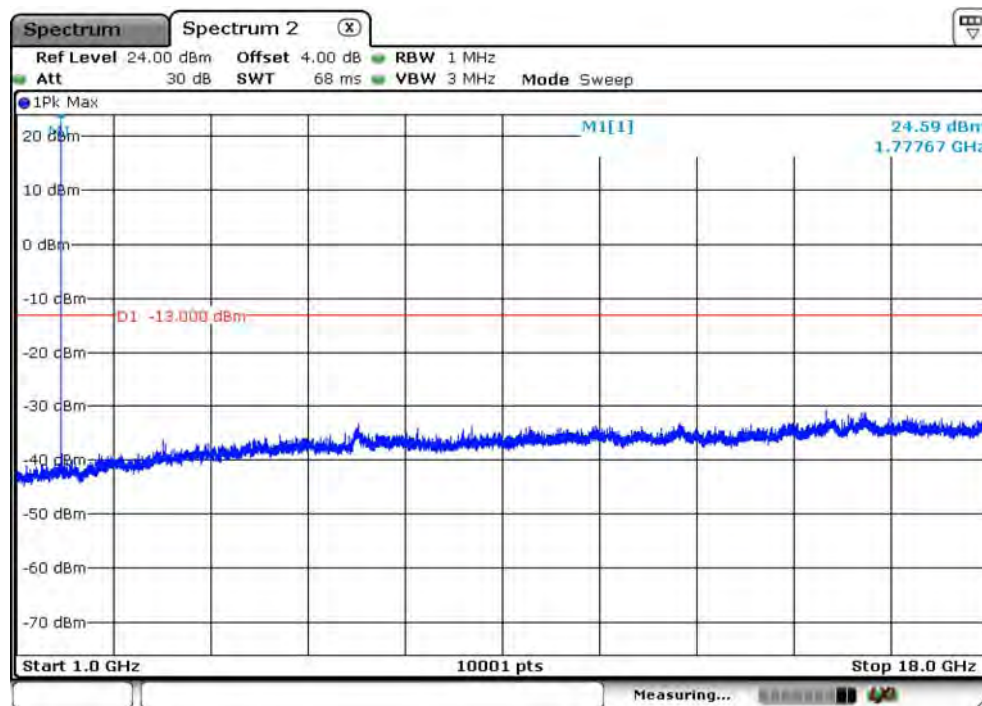
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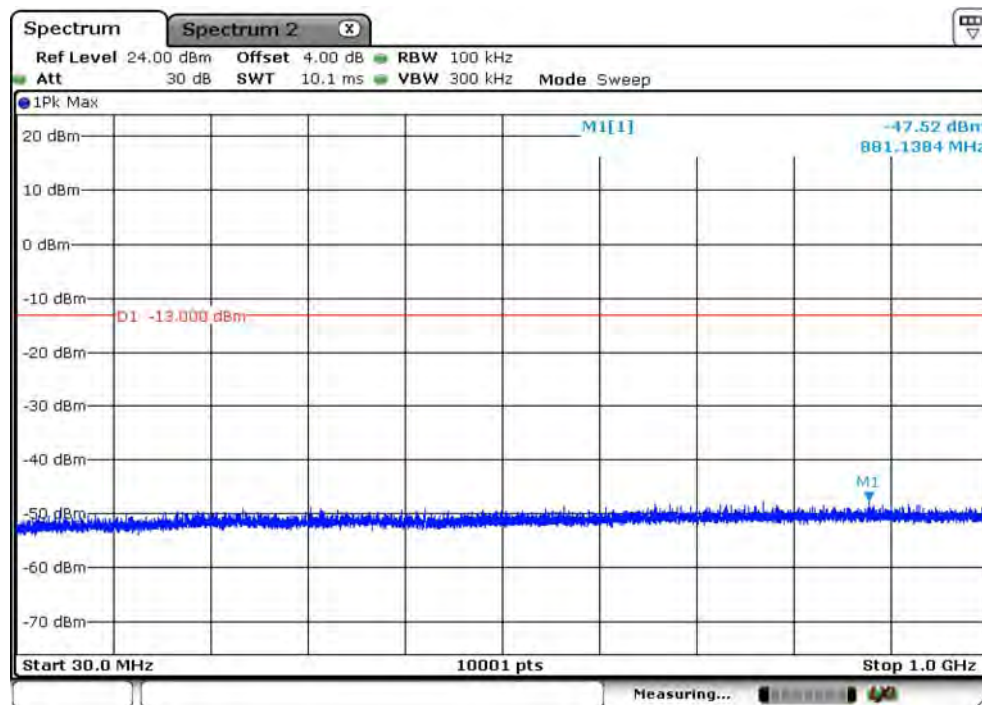
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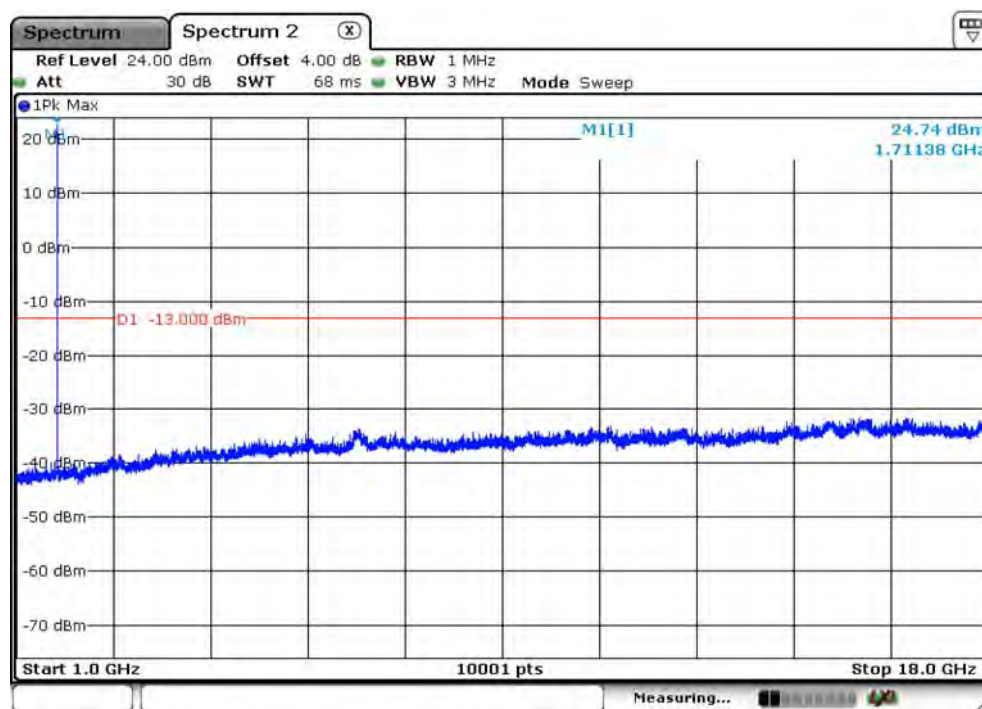
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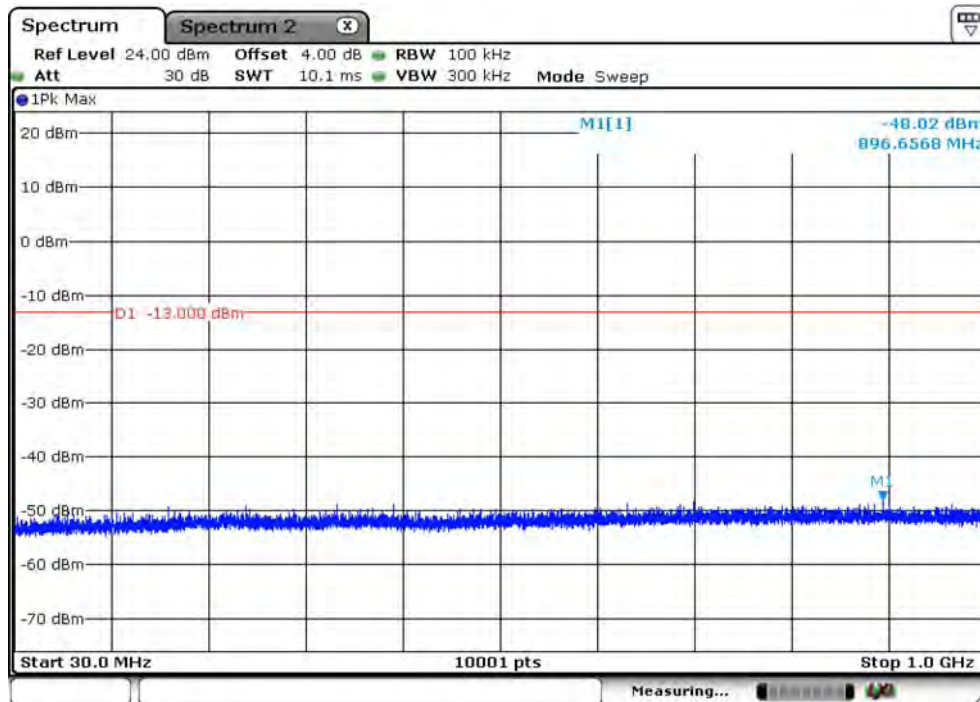
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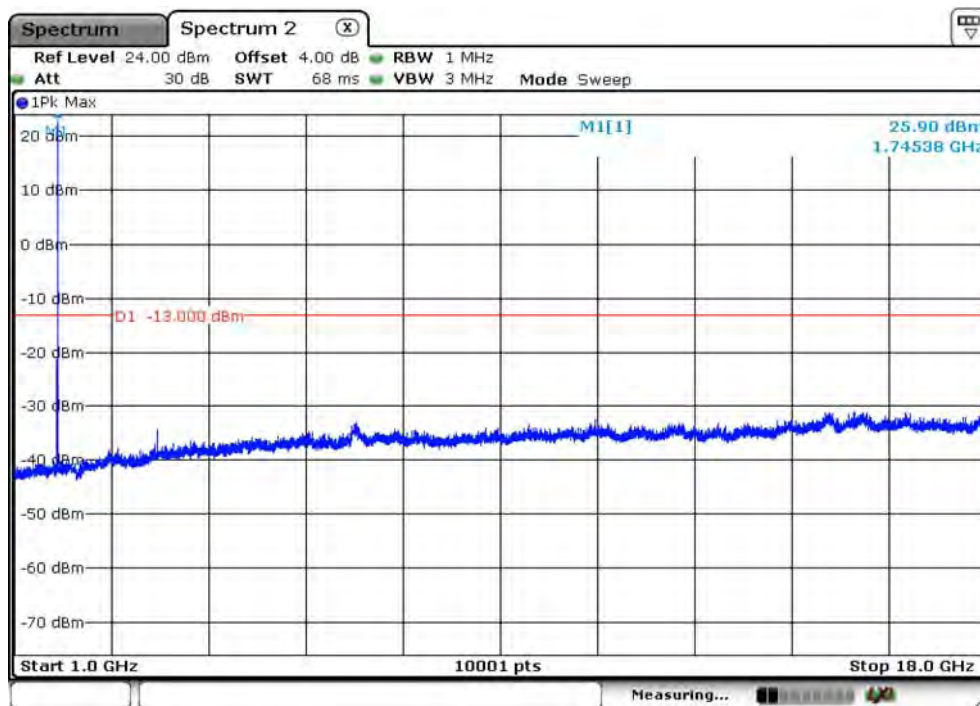
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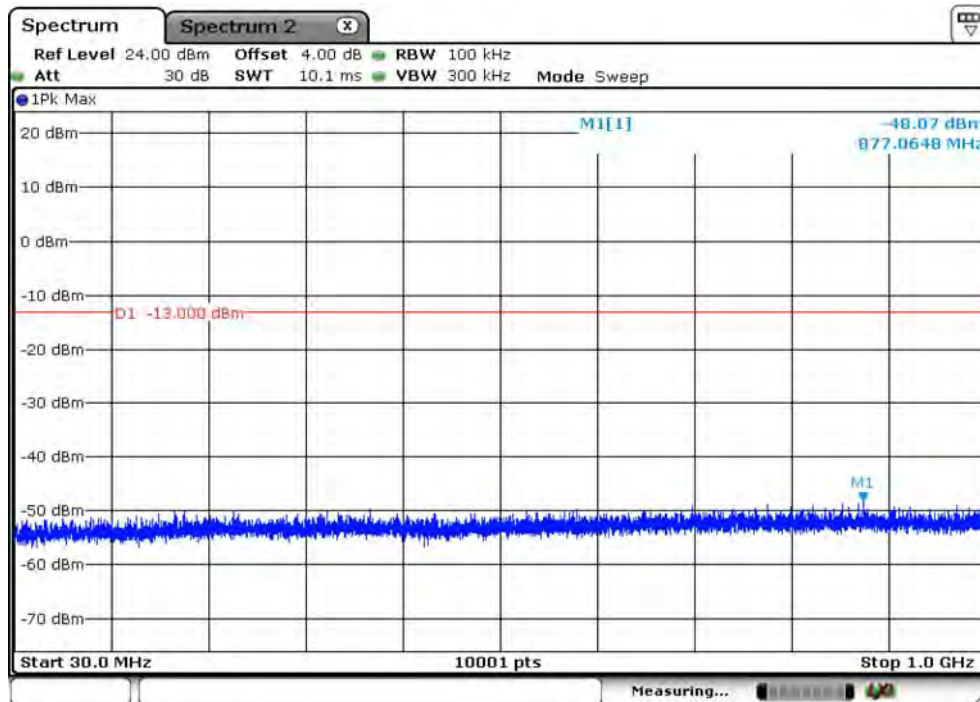
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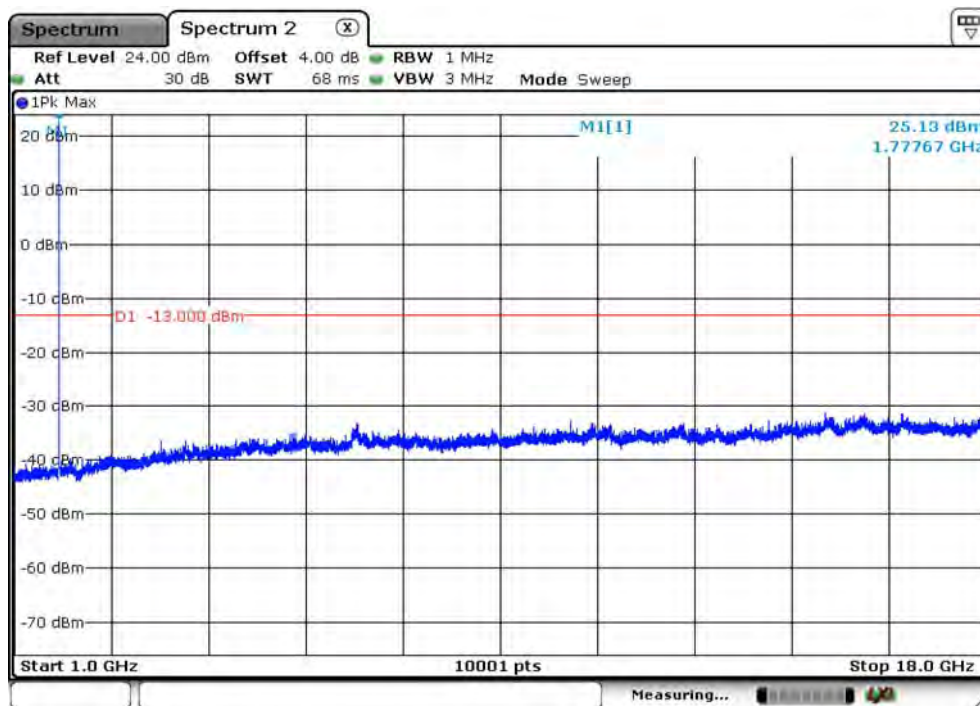
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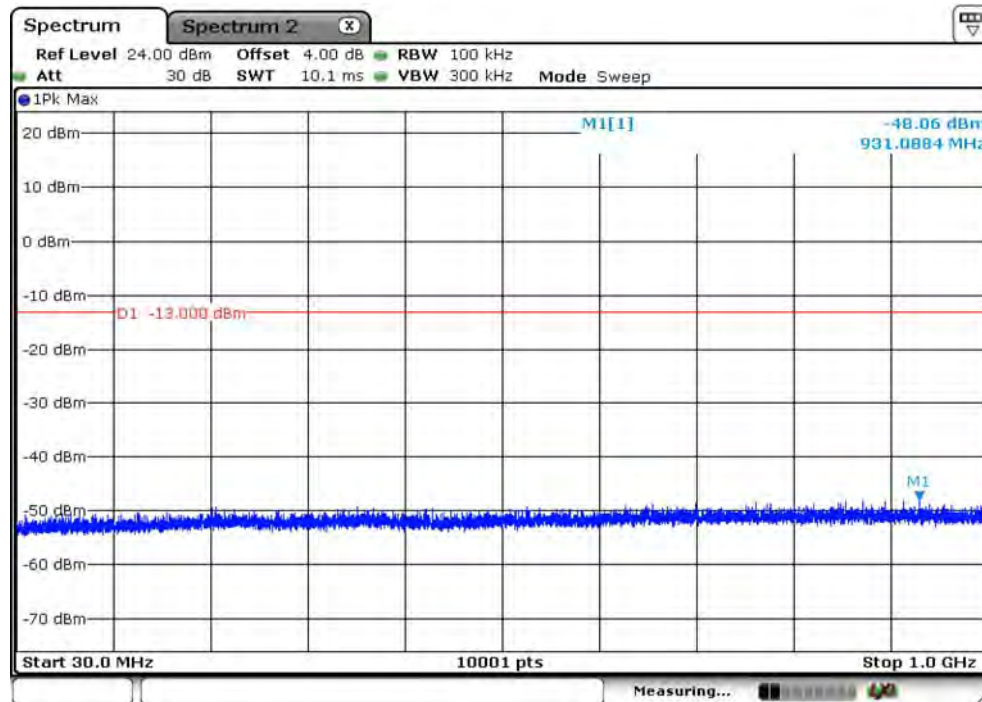
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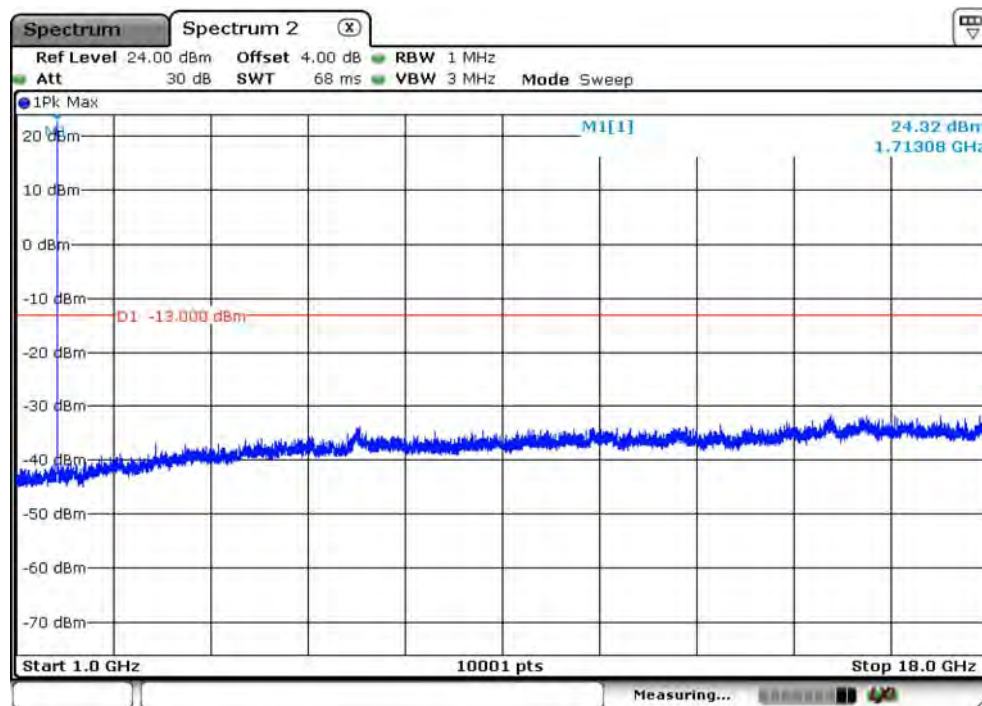
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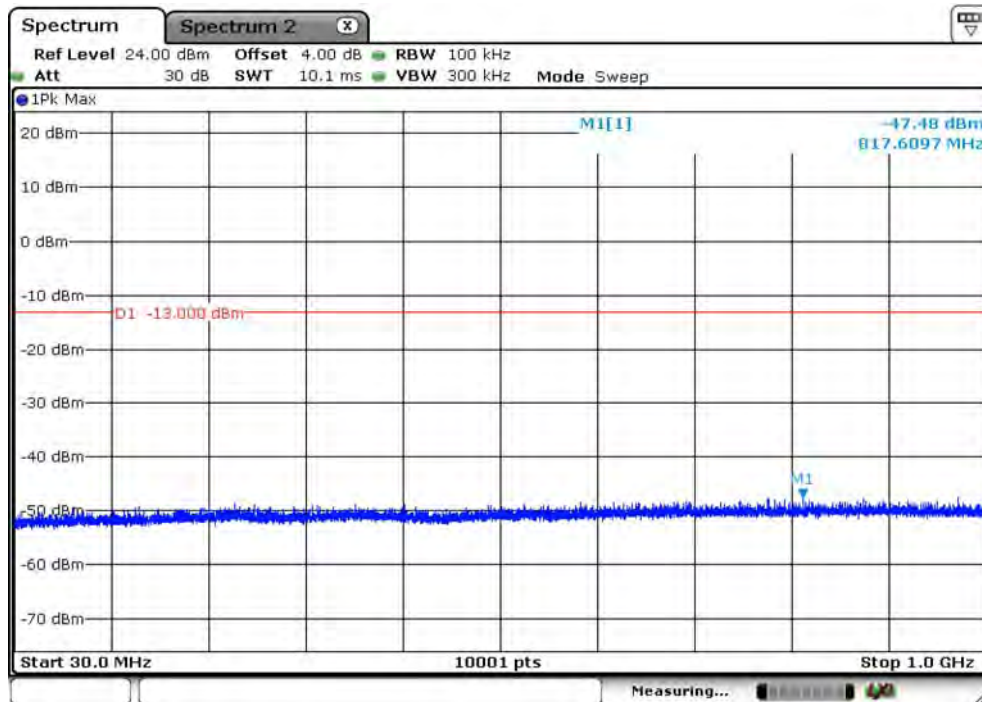
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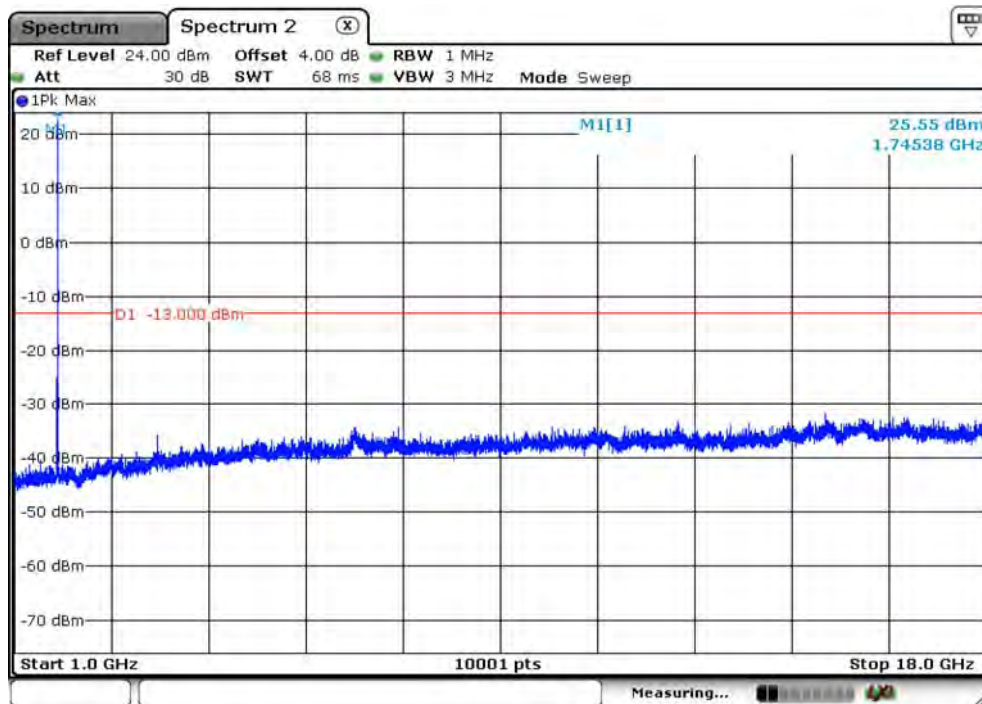
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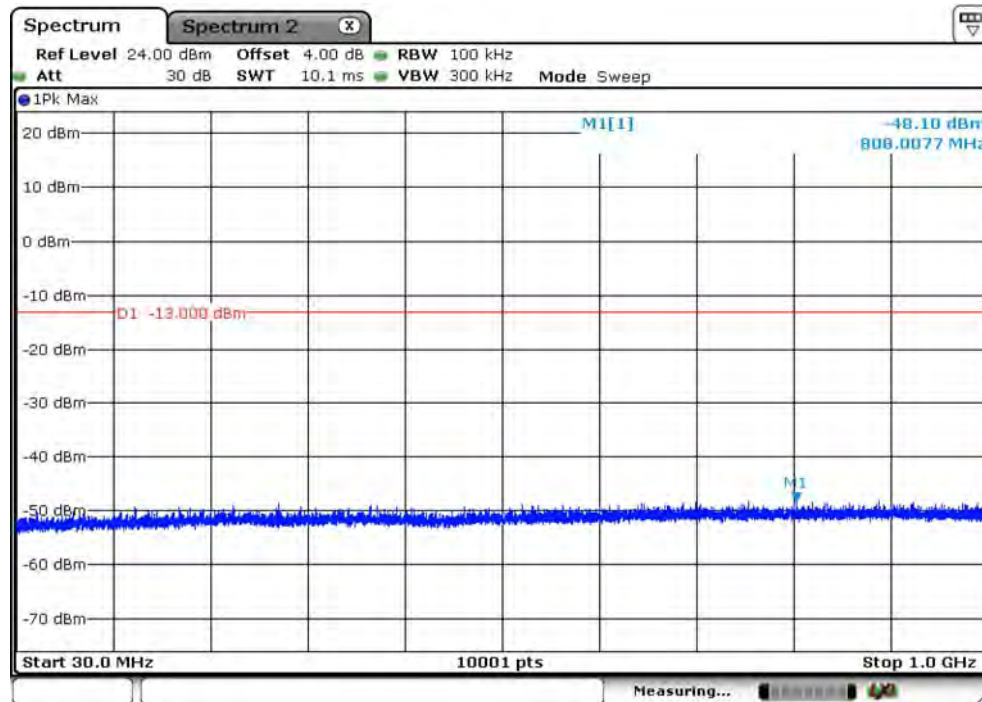
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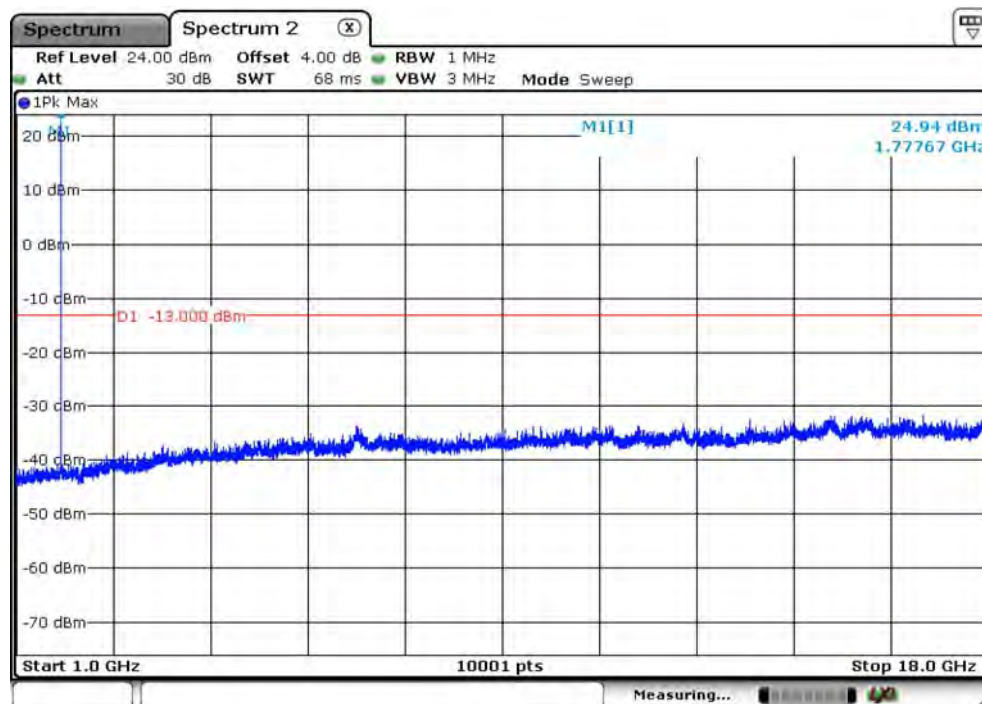
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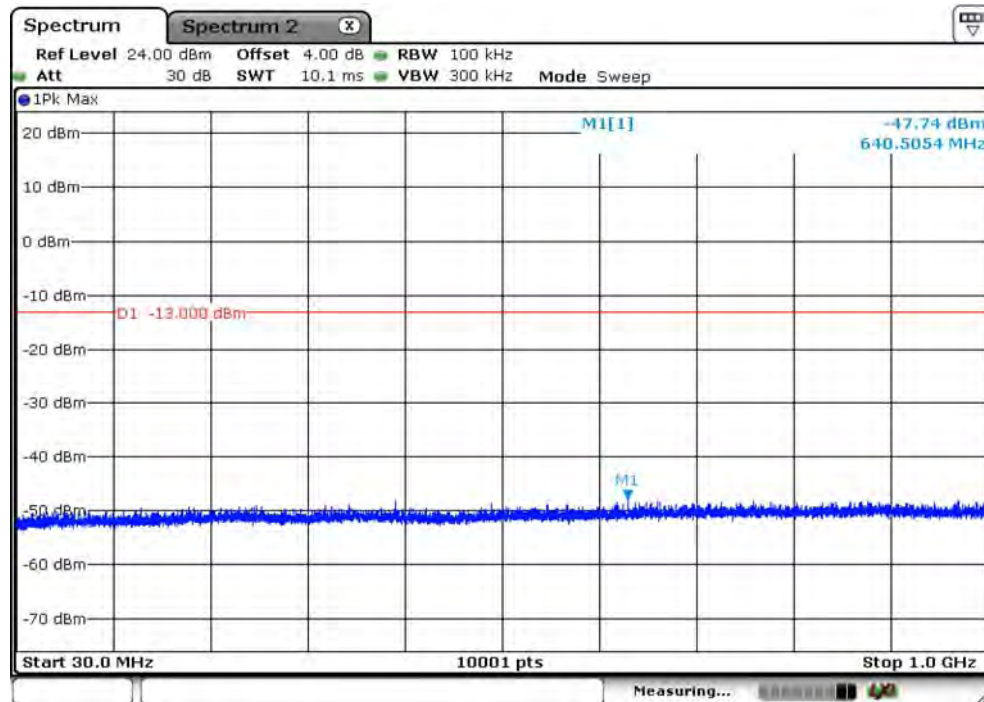
Date: 27.AUG.2020 14:05:09

B66_CH132647_5M_1RB12_QPSK_Above 1G



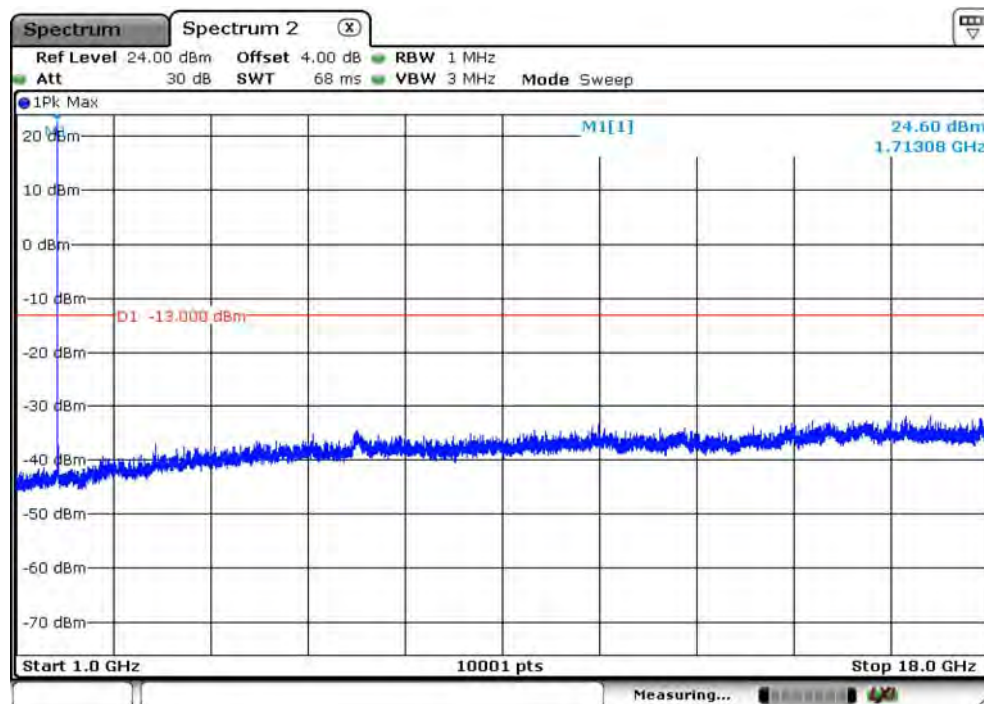
Date: 27.AUG.2020 14:05:58

B66_CH132022_10M_1RB0_QPSK_Below 1G



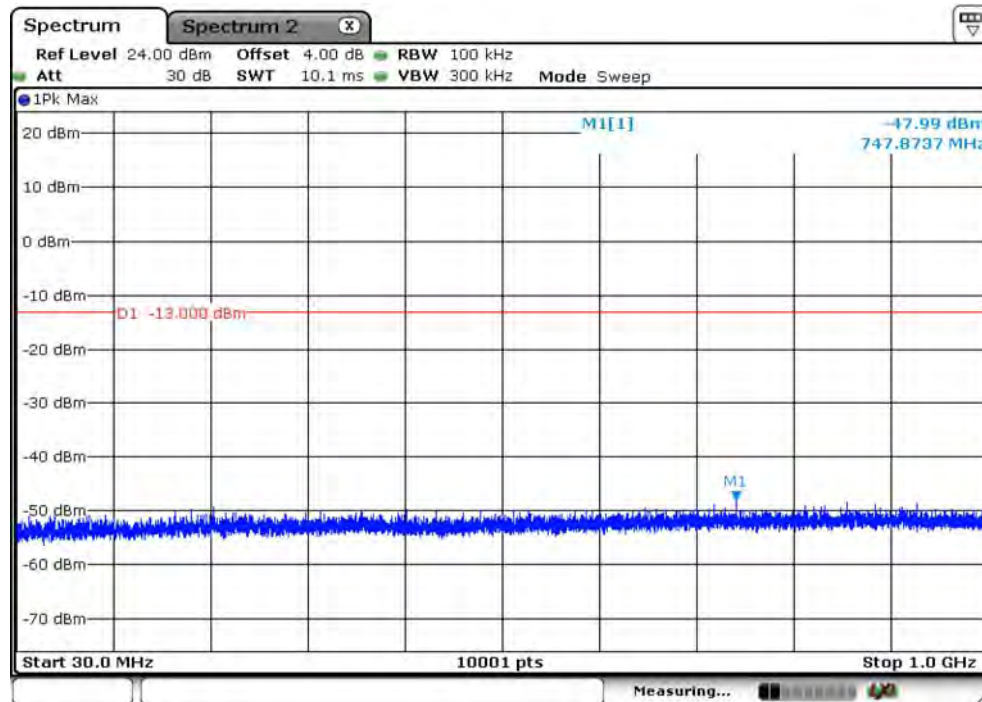
Date: 27.AUG.2020 14:15:26

B66_CH132022_10M_1RB0_QPSK_Above 1G



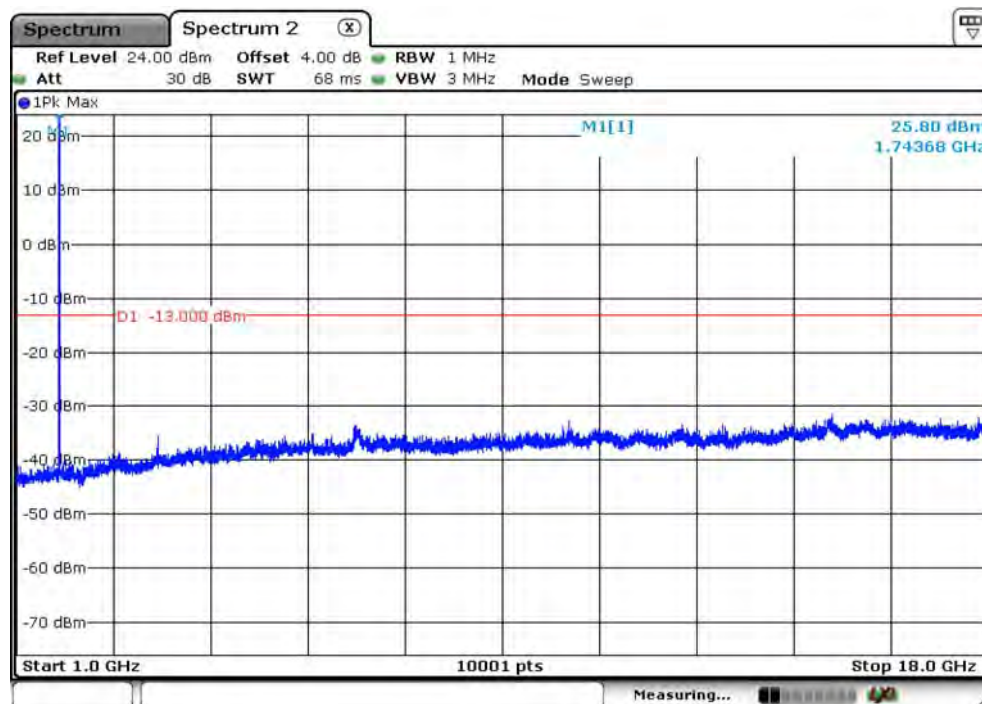
Date: 27.AUG.2020 14:15:55

B66_CH132322_10M_1RB0_QPSK_Below 1G



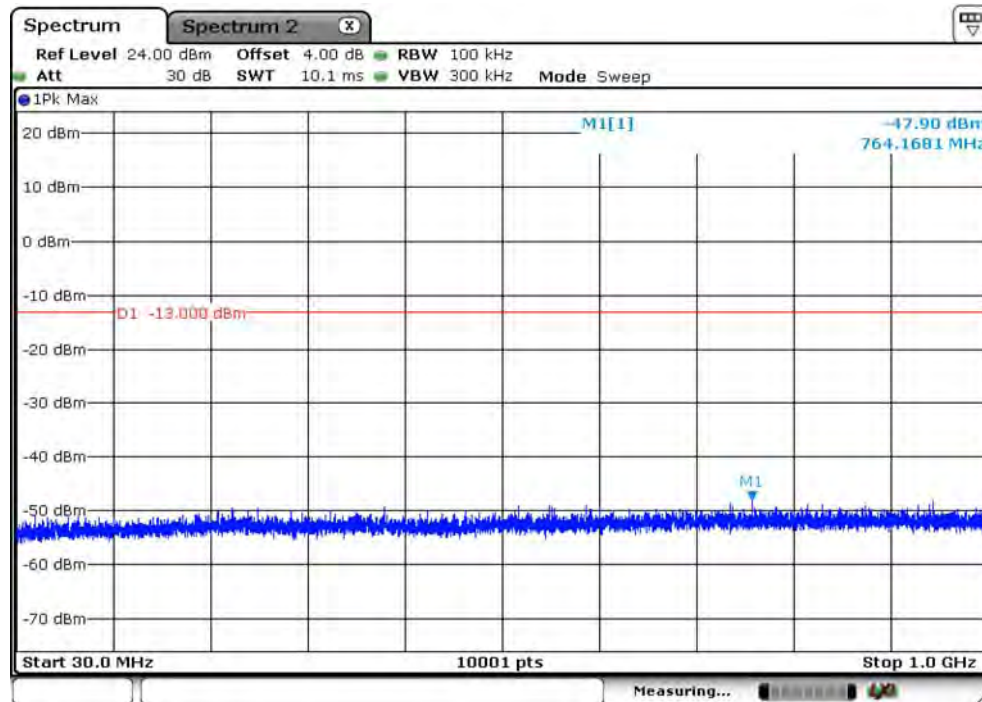
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B66_CH132322_10M_1RB0_QPSK_Above 1G



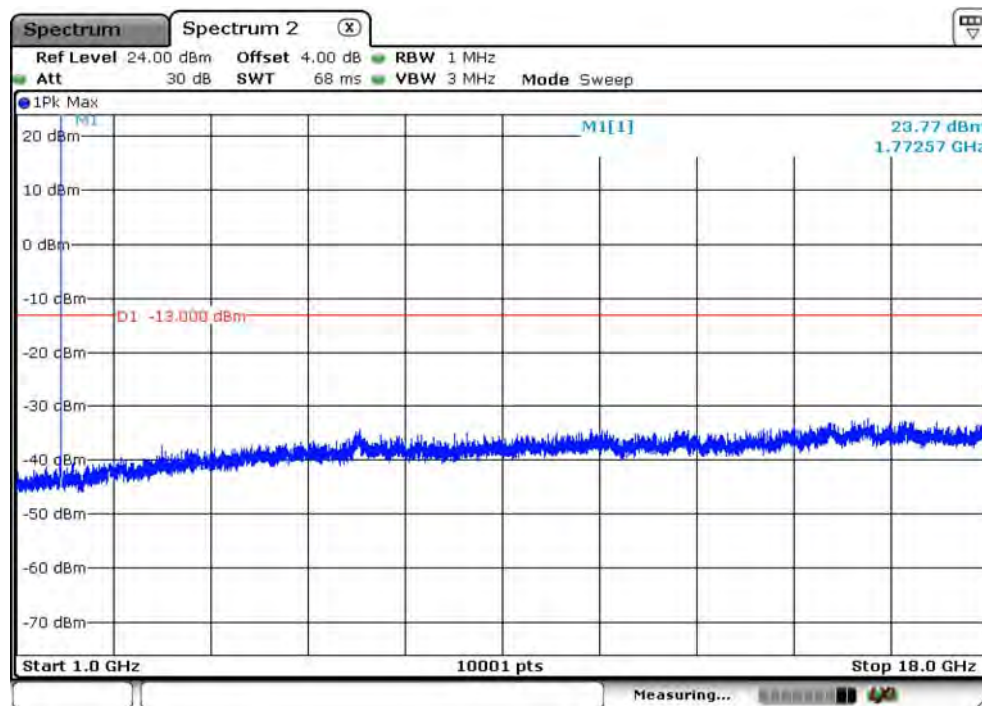
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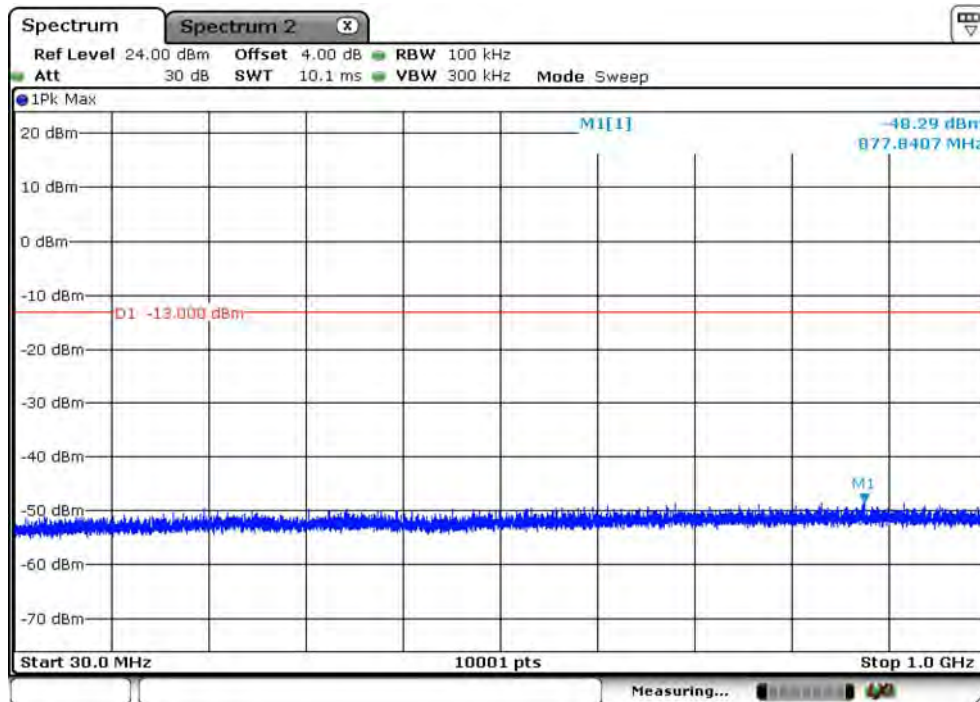
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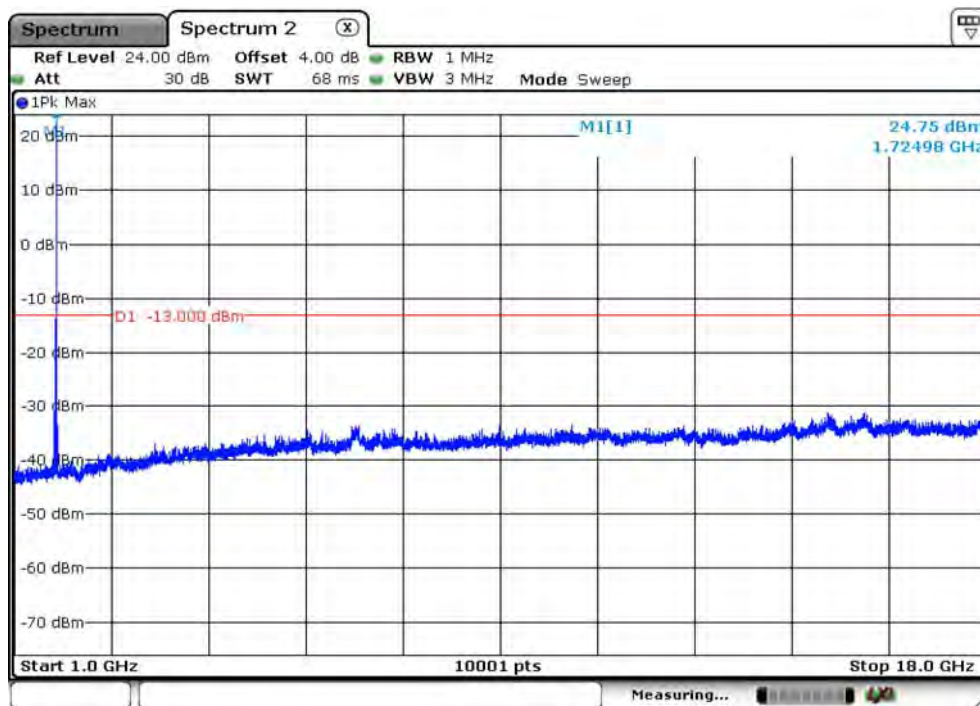
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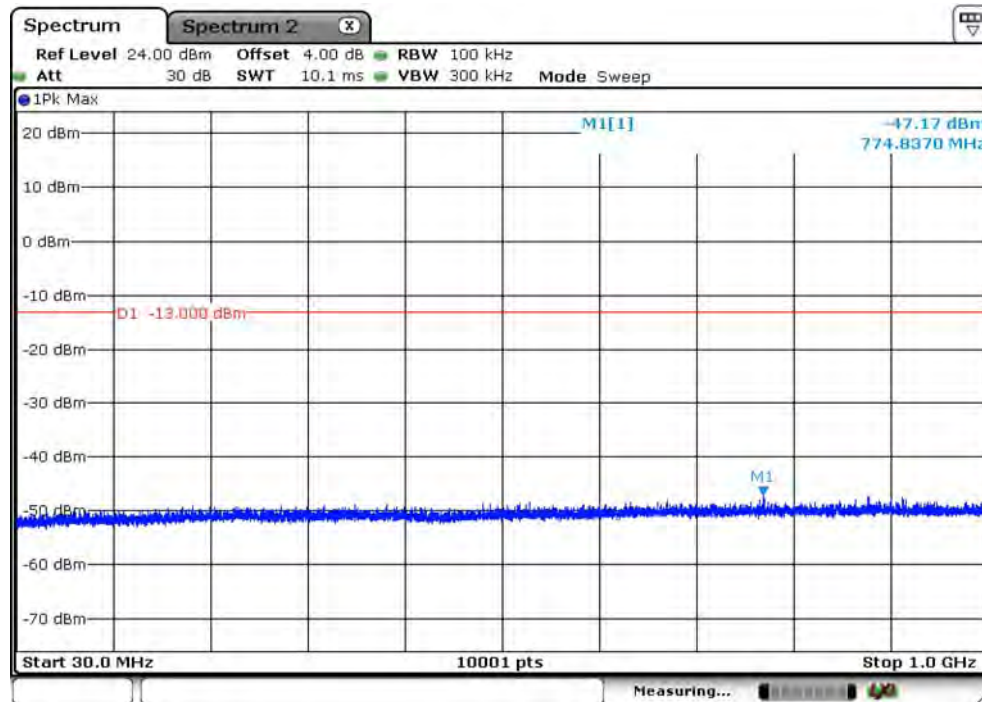
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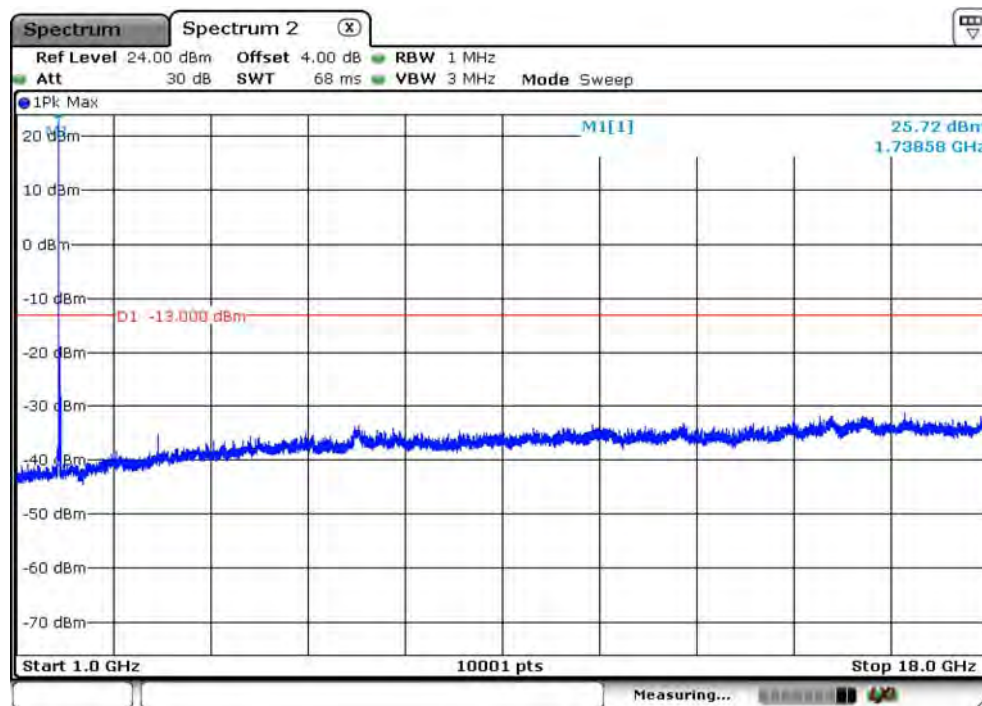
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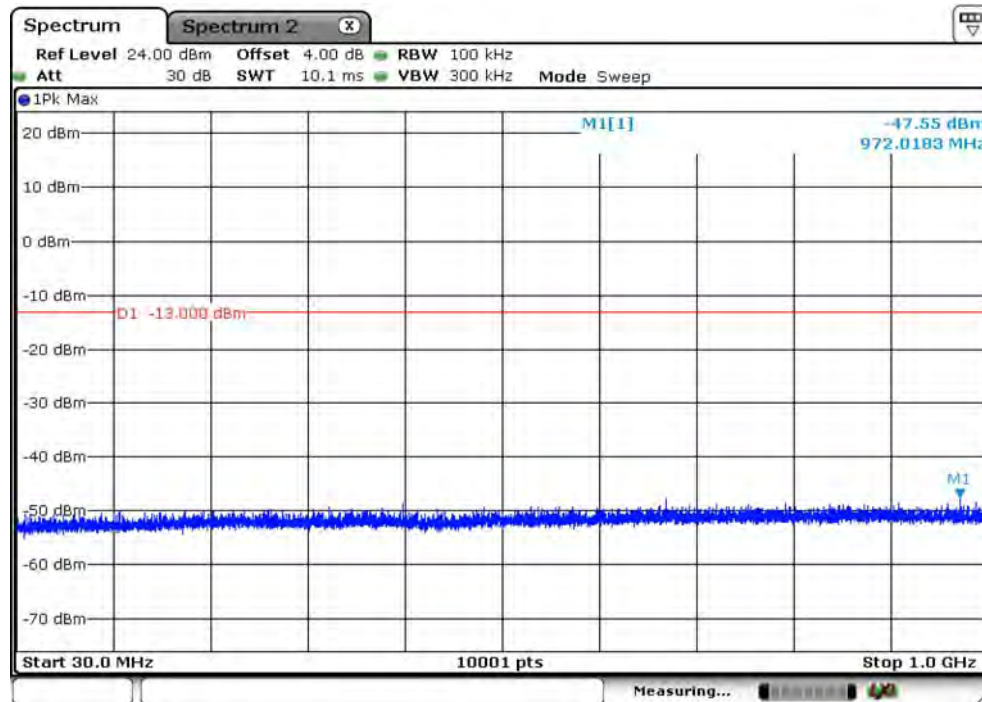
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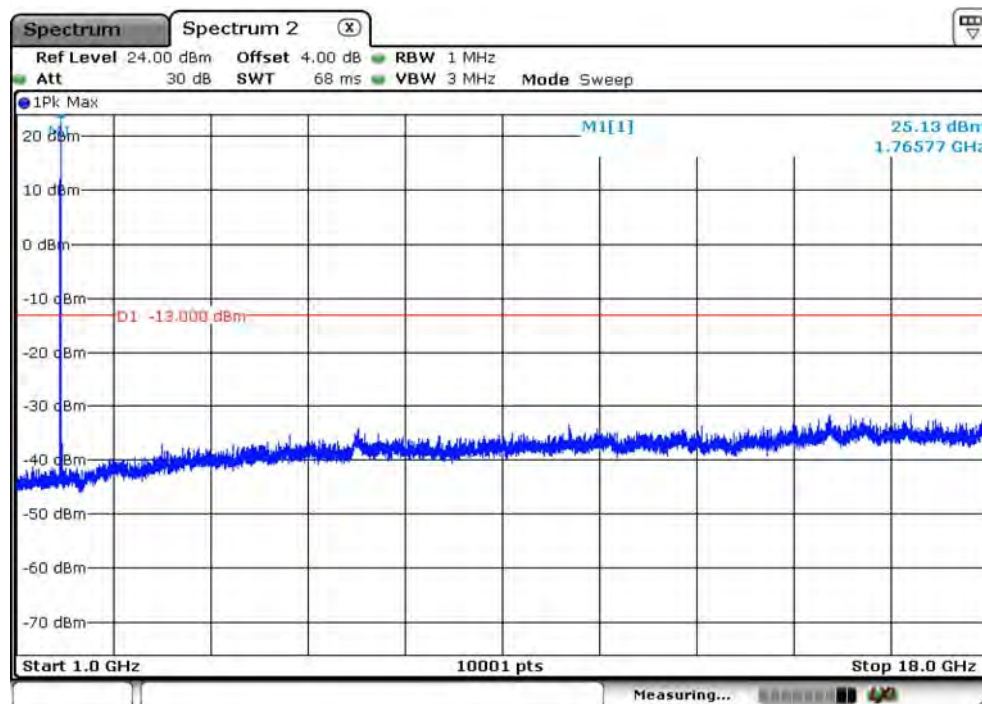
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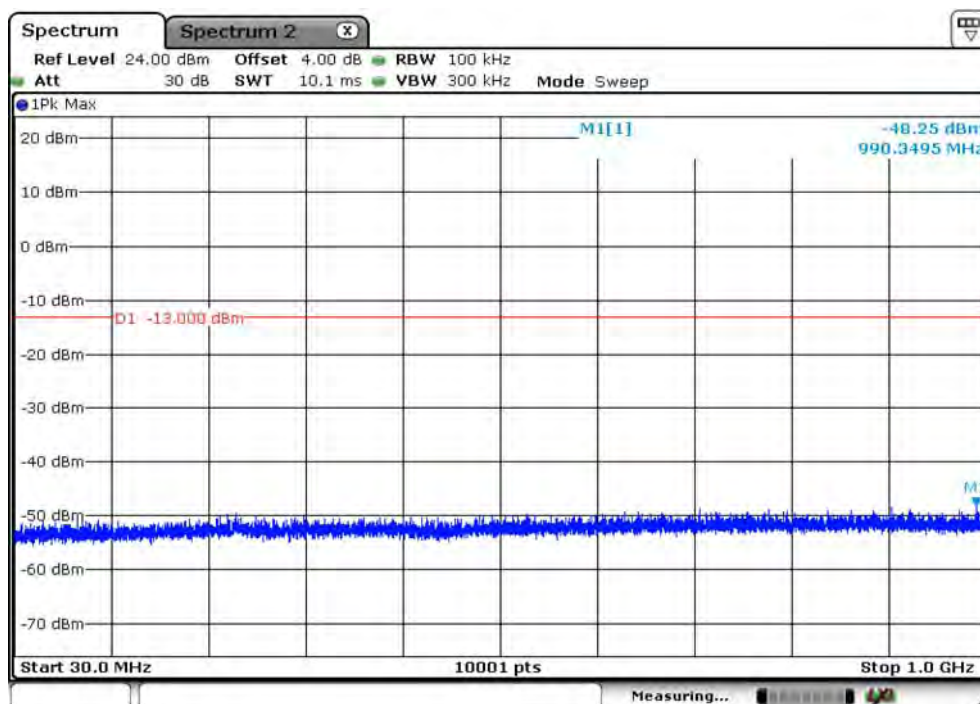
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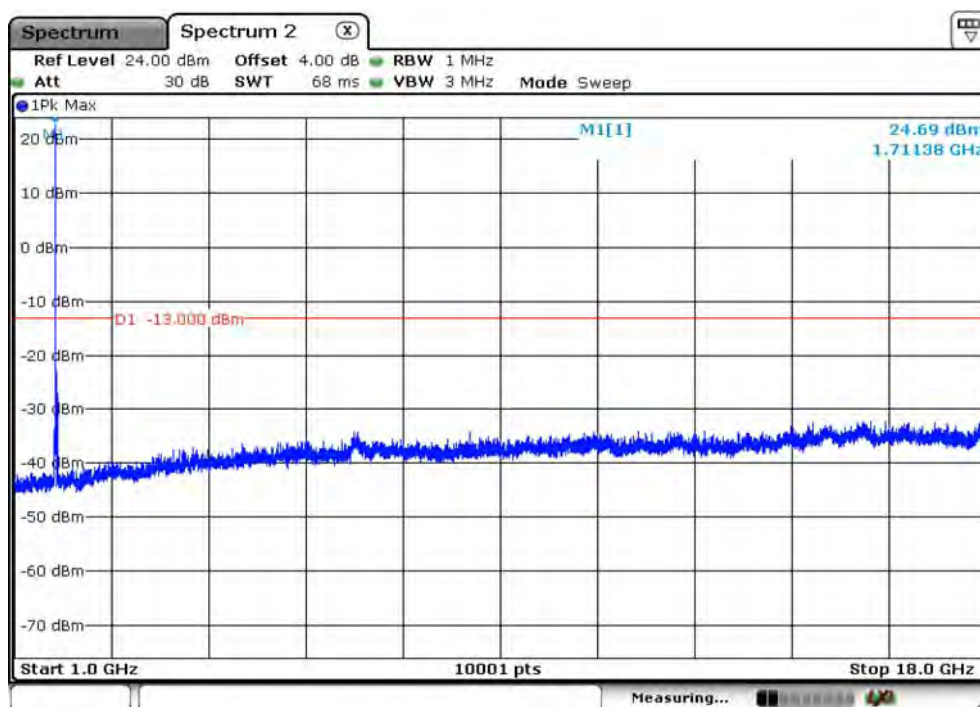
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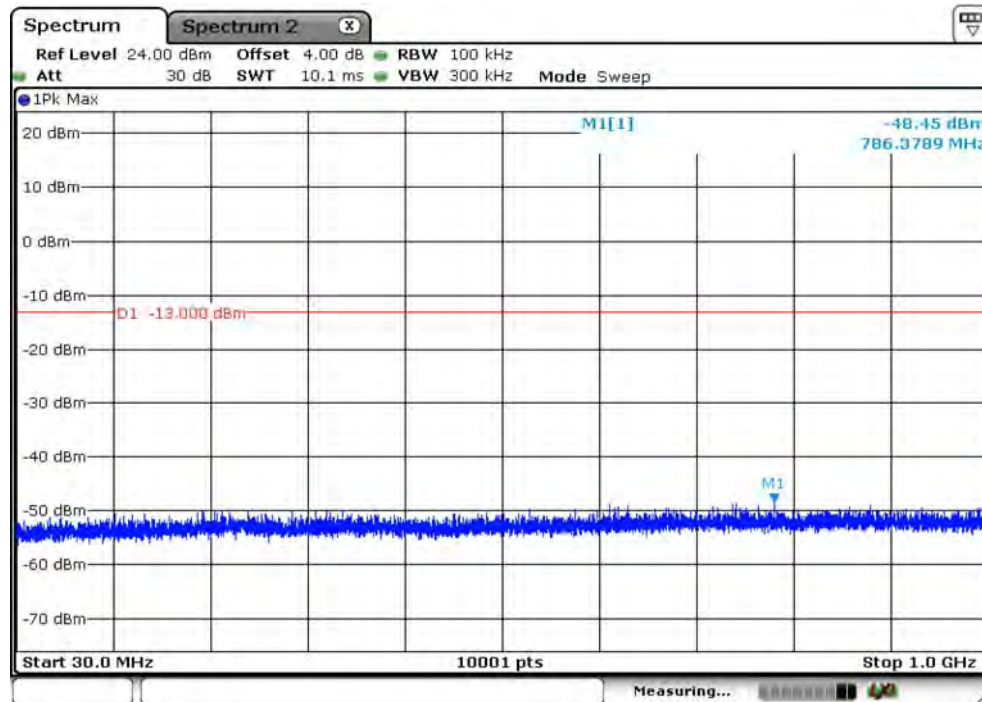
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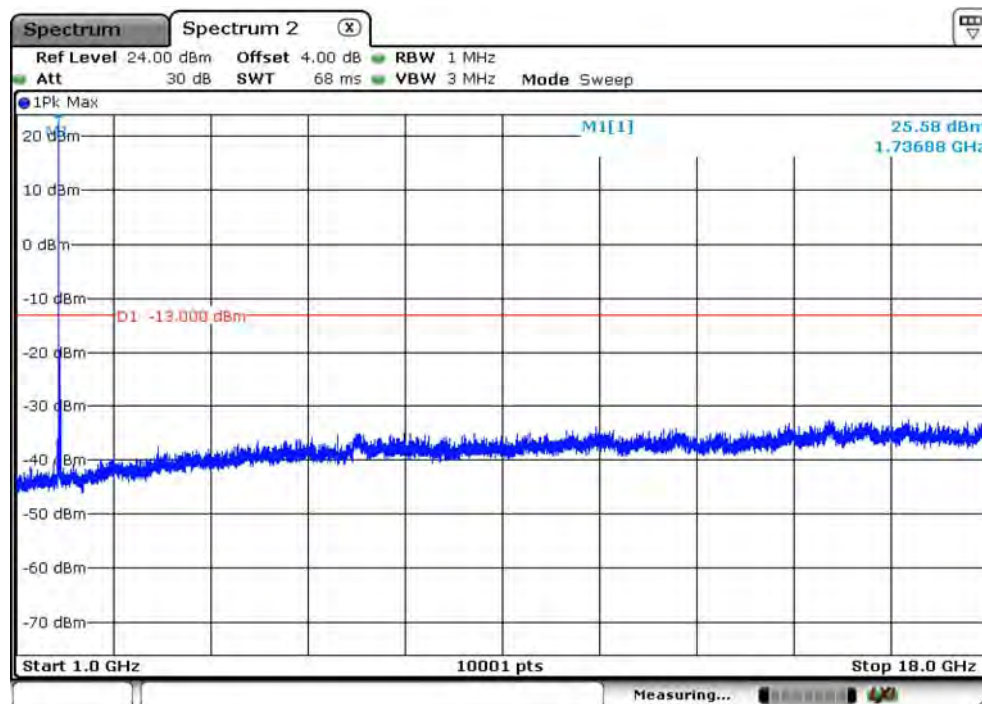
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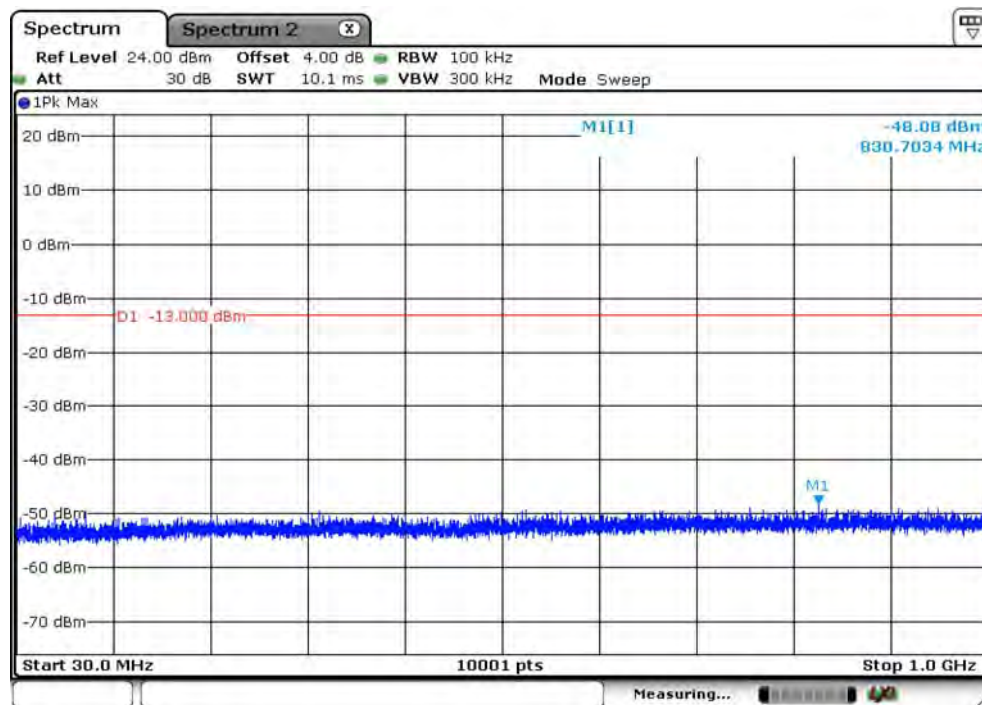
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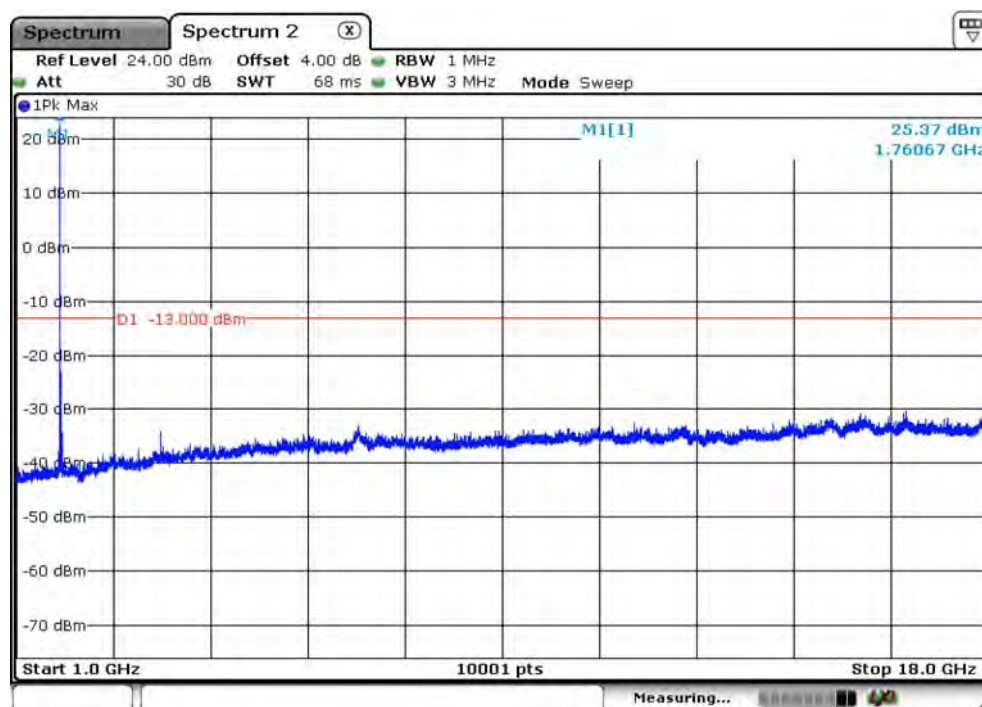
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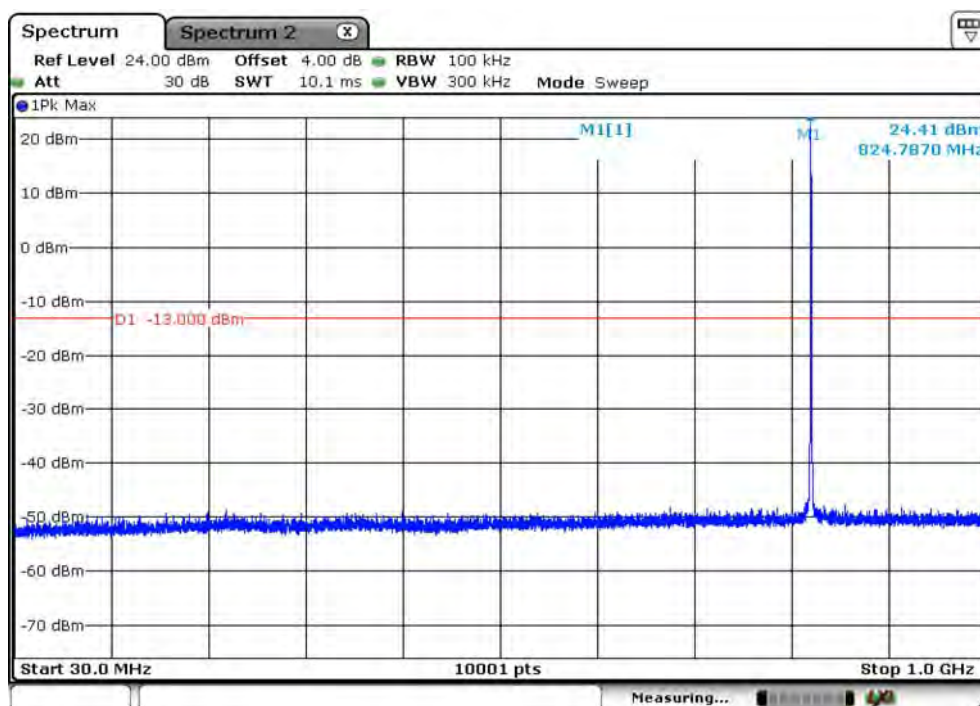
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Date: 27.AUG.2020 14:50:57

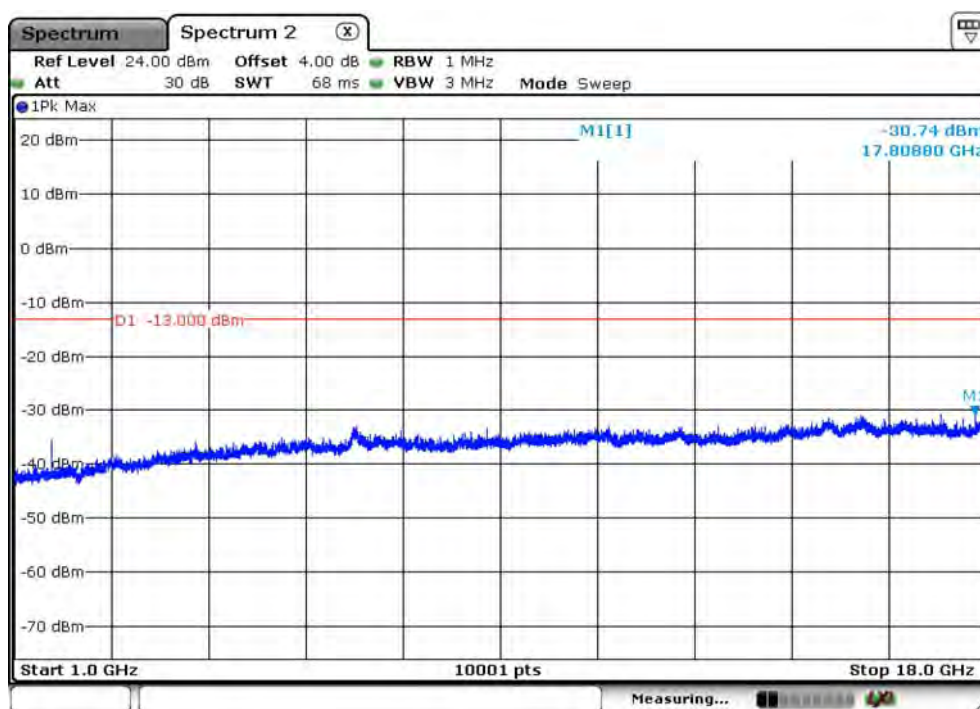
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 3: LTE Band 5/26 (Part 22)		
Date of Test	2020/08/26	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	66

B26_CH26797_1.4M_1RB2__QPSK_Below 1G



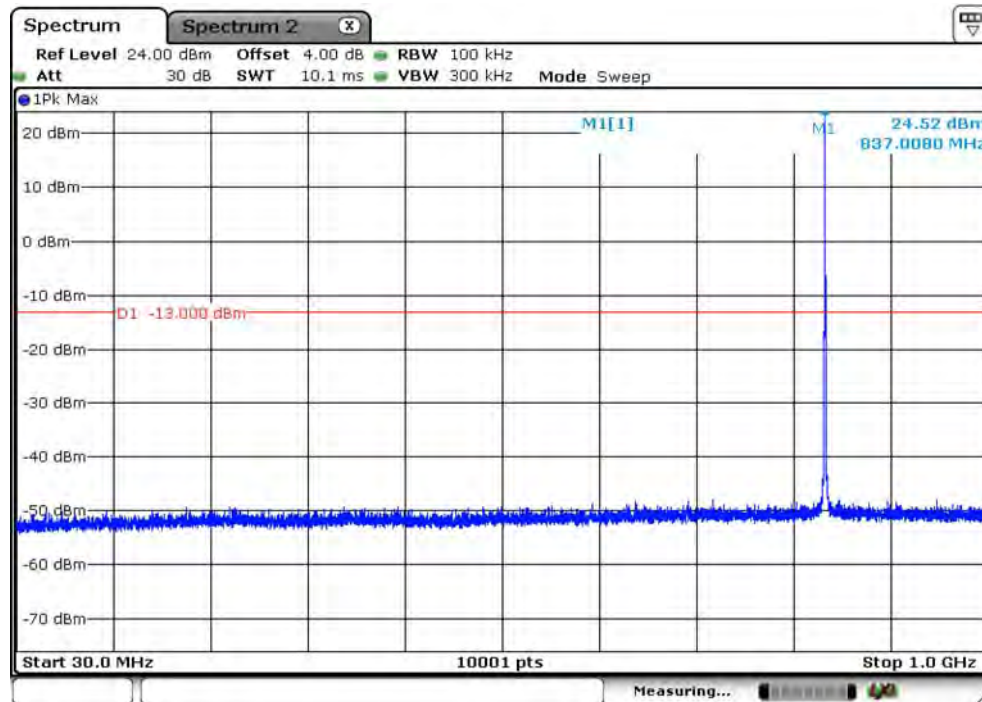
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B26_CH26797_1.4M_1RB2__QPSK_Above 1G



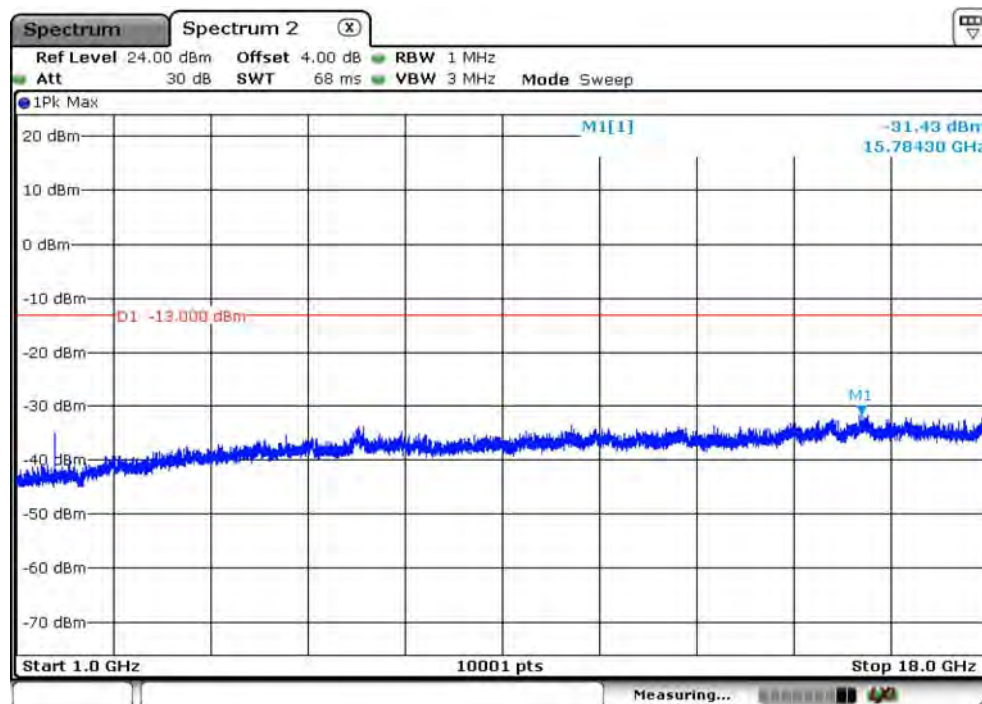
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B26_CH26915_1.4M_1RB5_QPSK_Below 1G



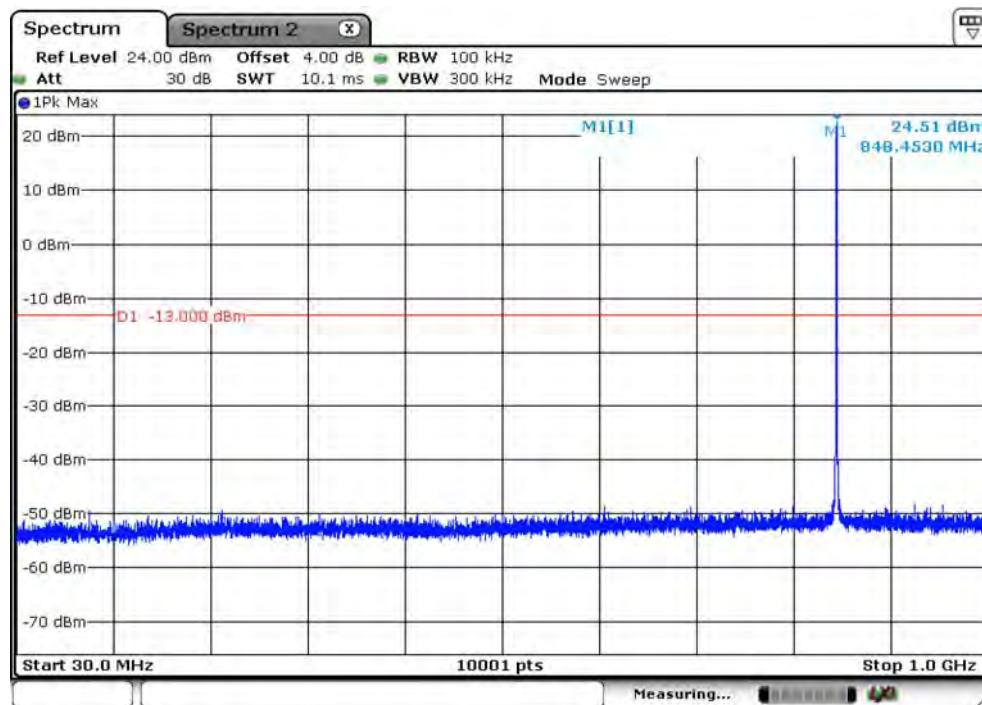
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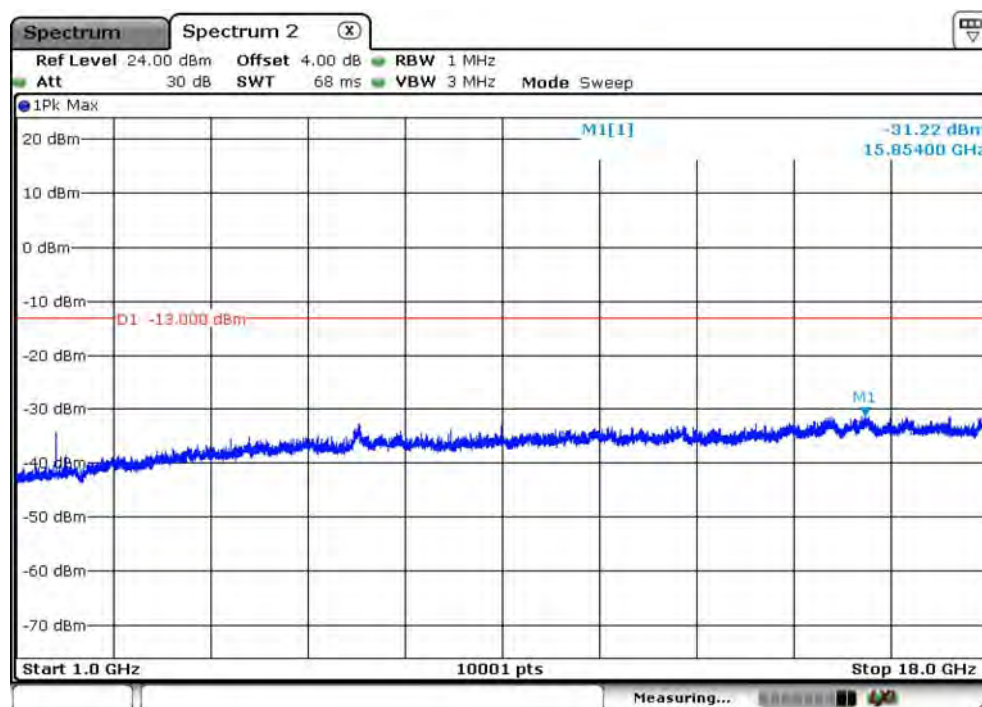
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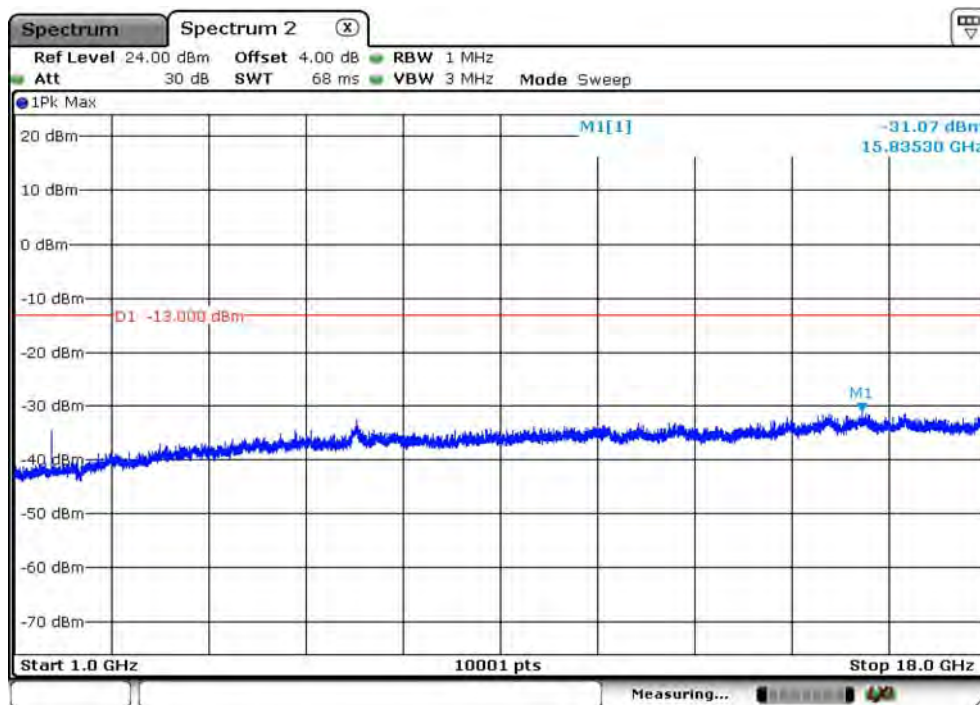
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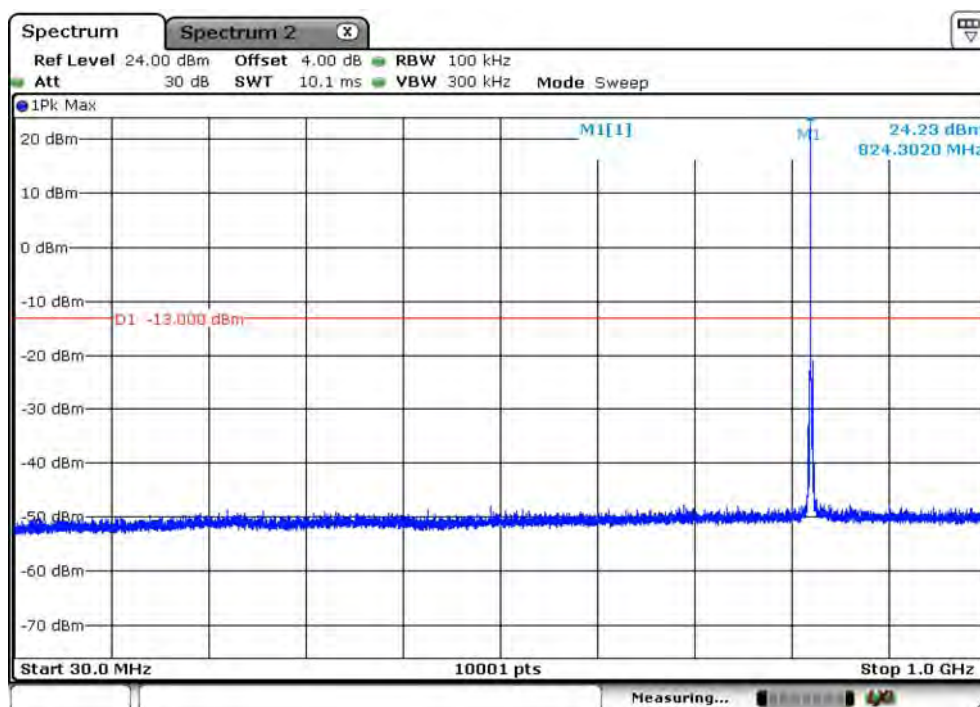
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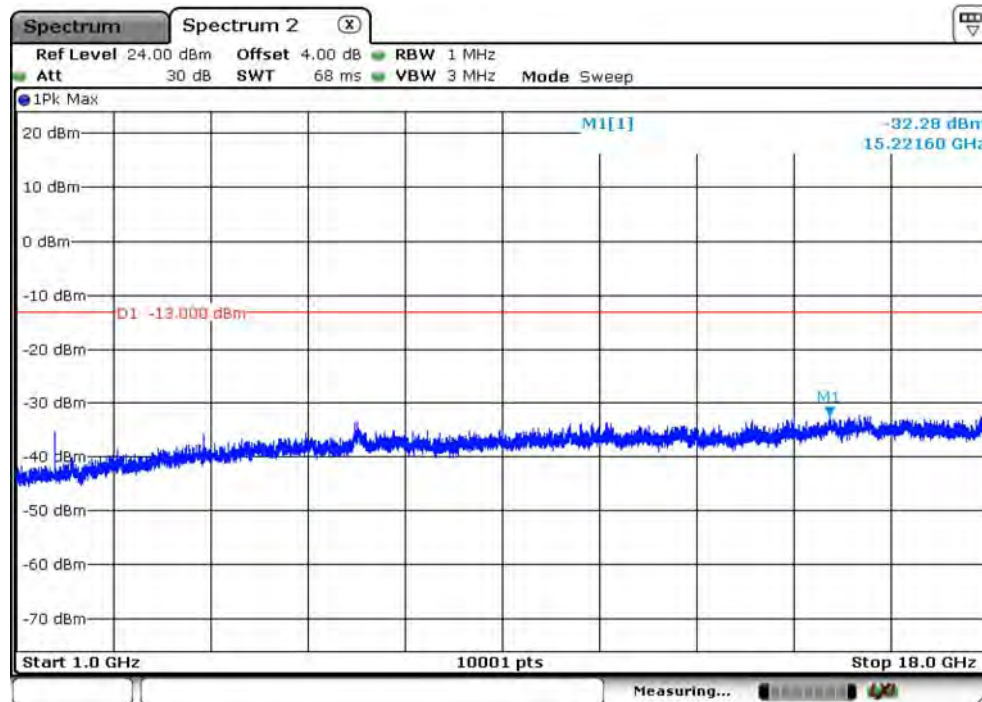
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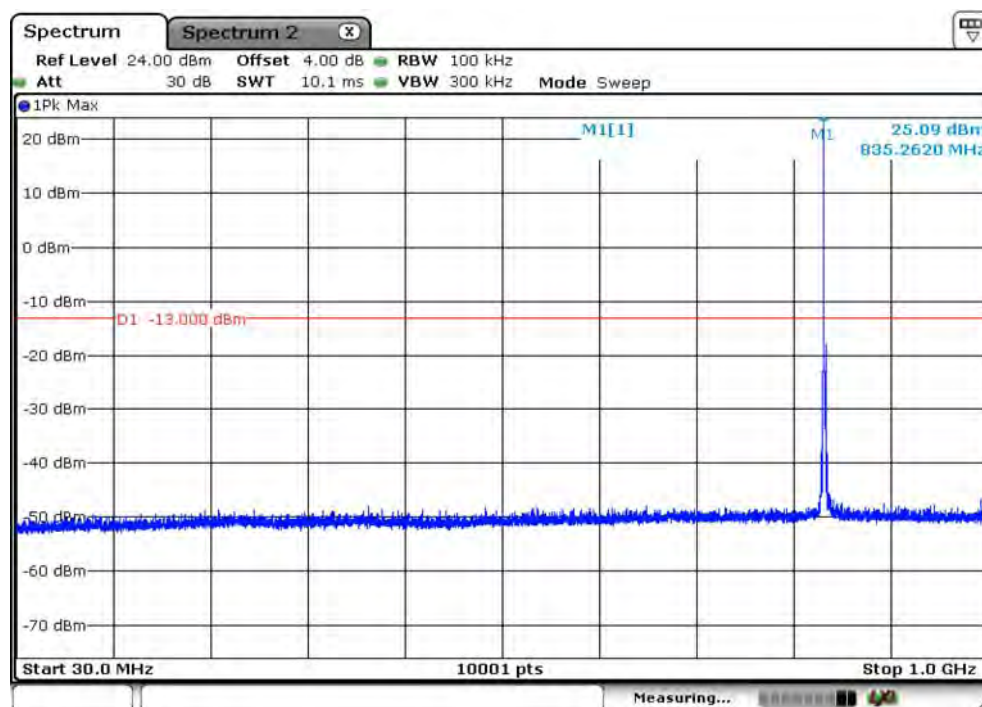
Date: 26.AUG.2020 21:52:19

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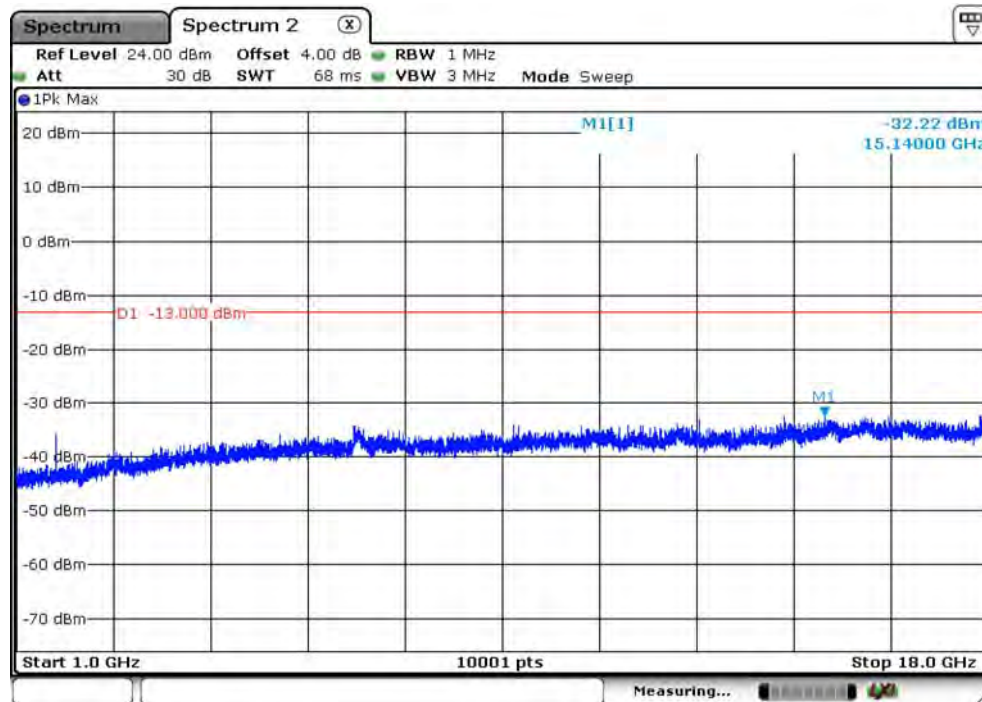
Date: 26.AUG.2020 21:33:58

B26_CH26915_3M_1RB0_QPSK_Below 1G



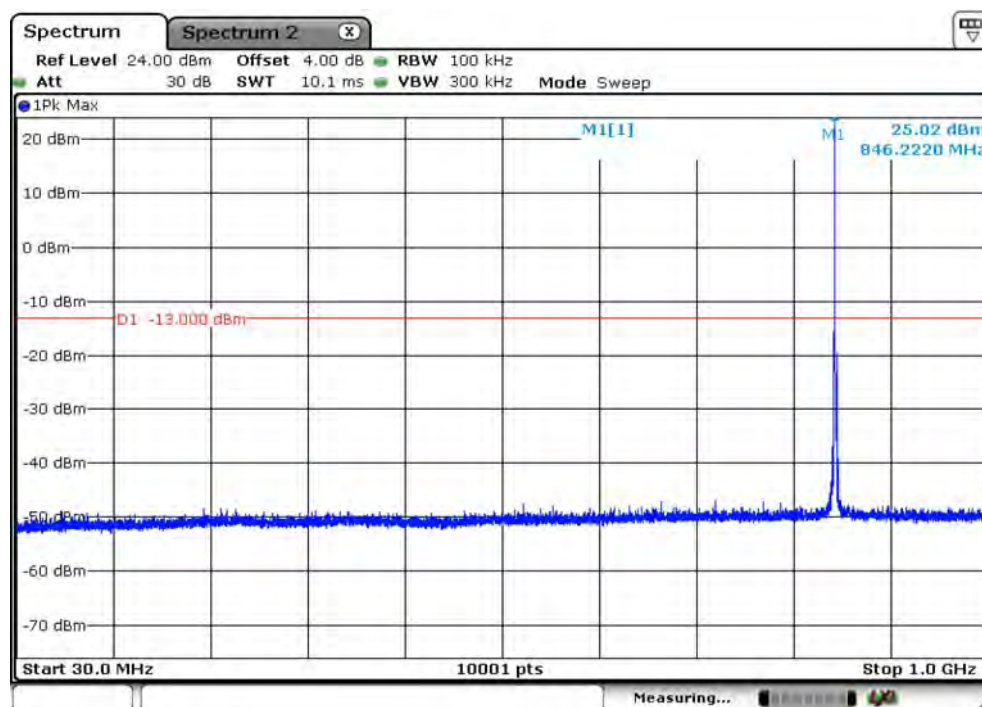
Date: 26.AUG.2020 21:33:38

B26_CH27025_3M_1RB0_QPSK_Above 1G



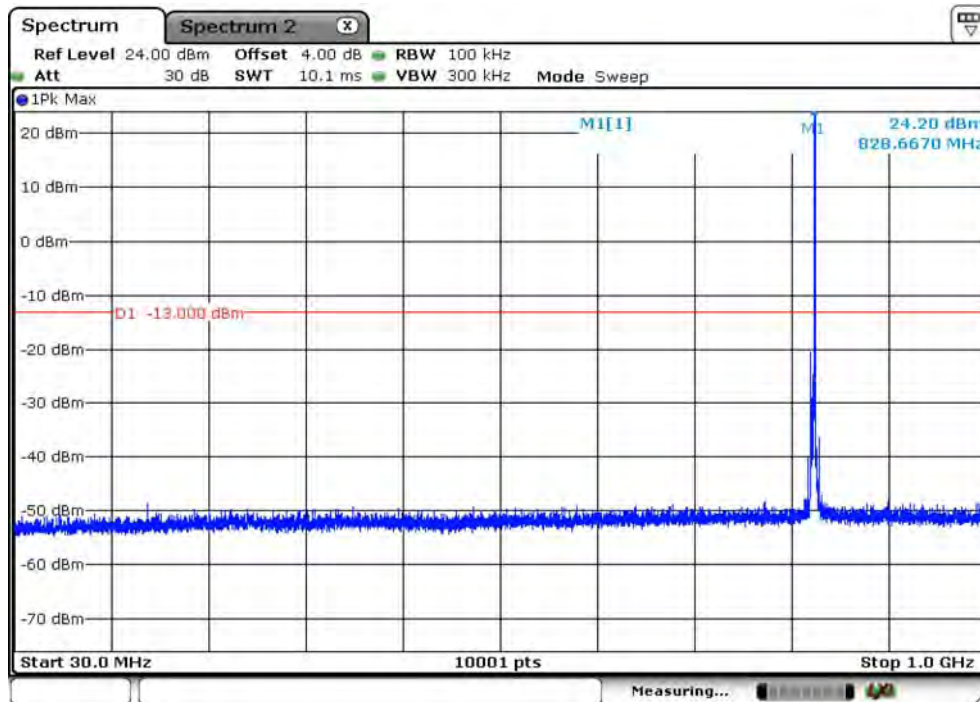
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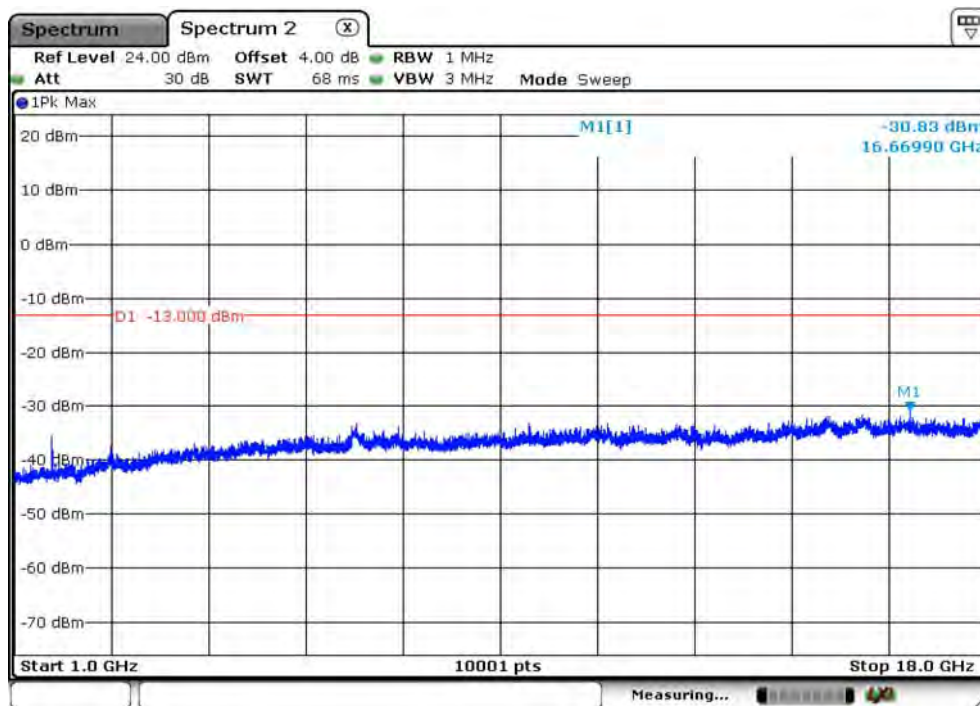
Date: 26.AUG.2020 21:58:51

B26_CH26815_5M_1RB24__QPSK_Below 1G



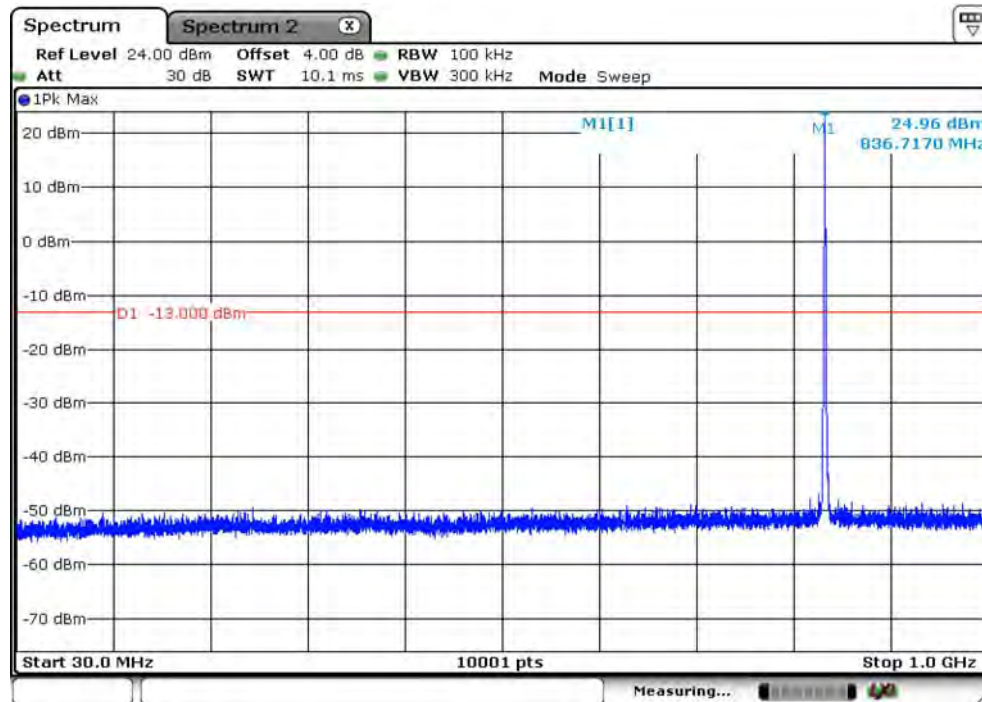
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B26_CH26815_5M_1RB24__QPSK_Above 1G



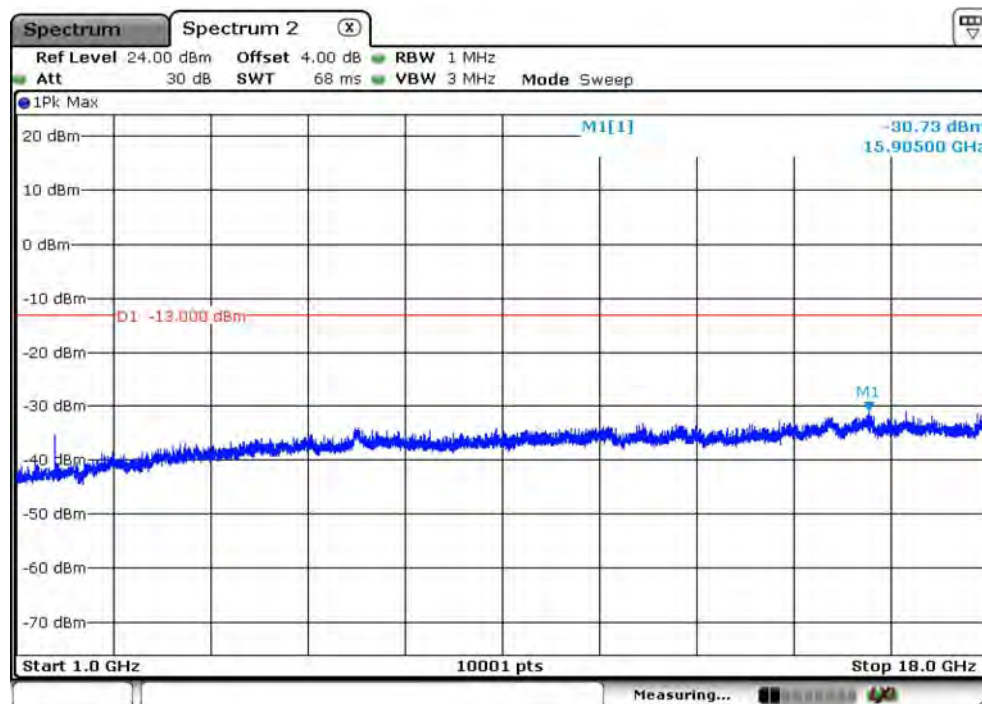
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B26_CH26915_5M_1RB0_QPSK_Below 1G



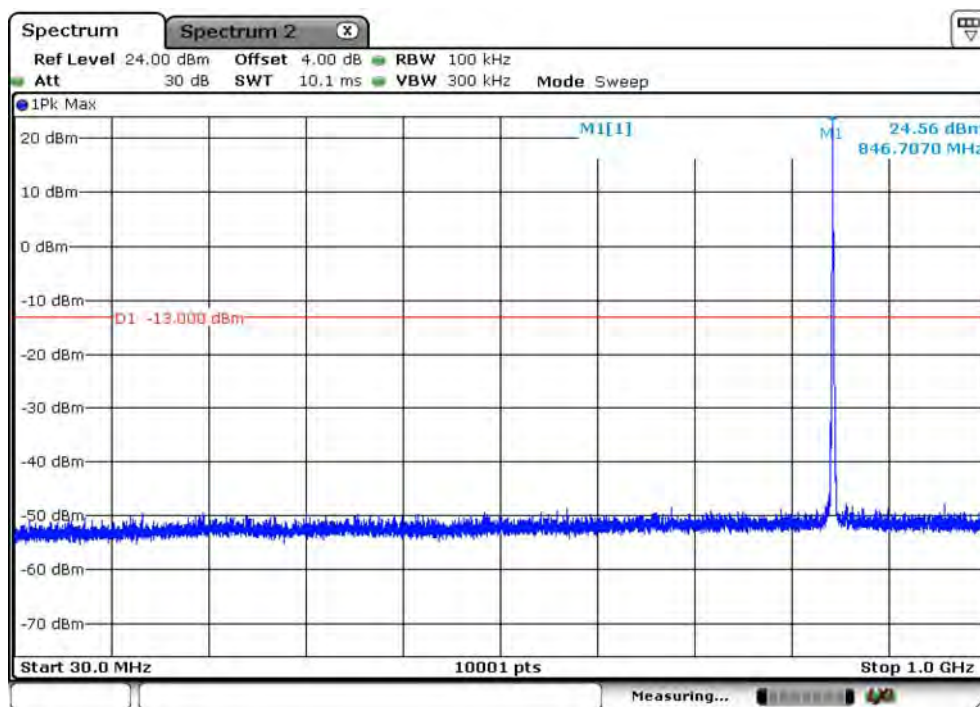
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B26_CH26915_5M_1RB0_QPSK_Above 1G



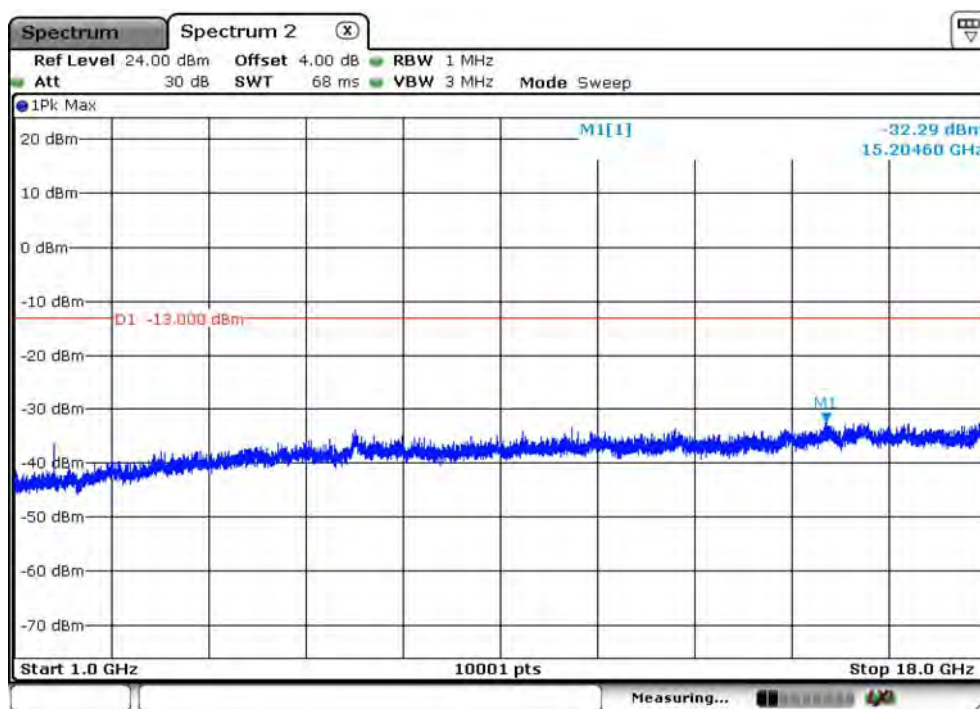
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B26_CH27015_5M_1RB12_QPSK_Below 1G



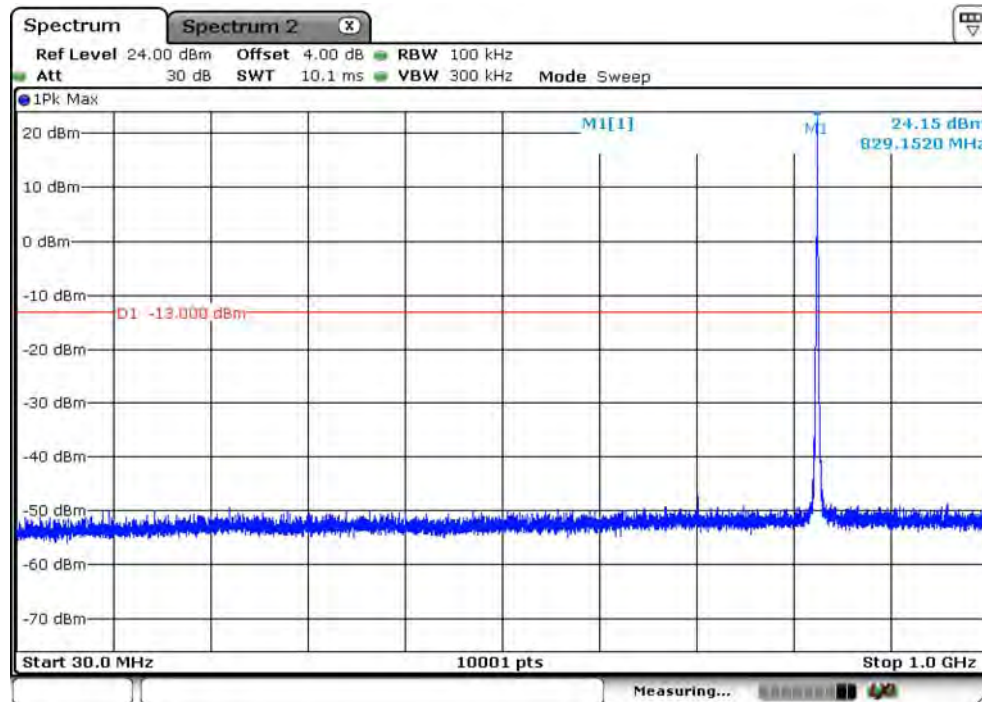
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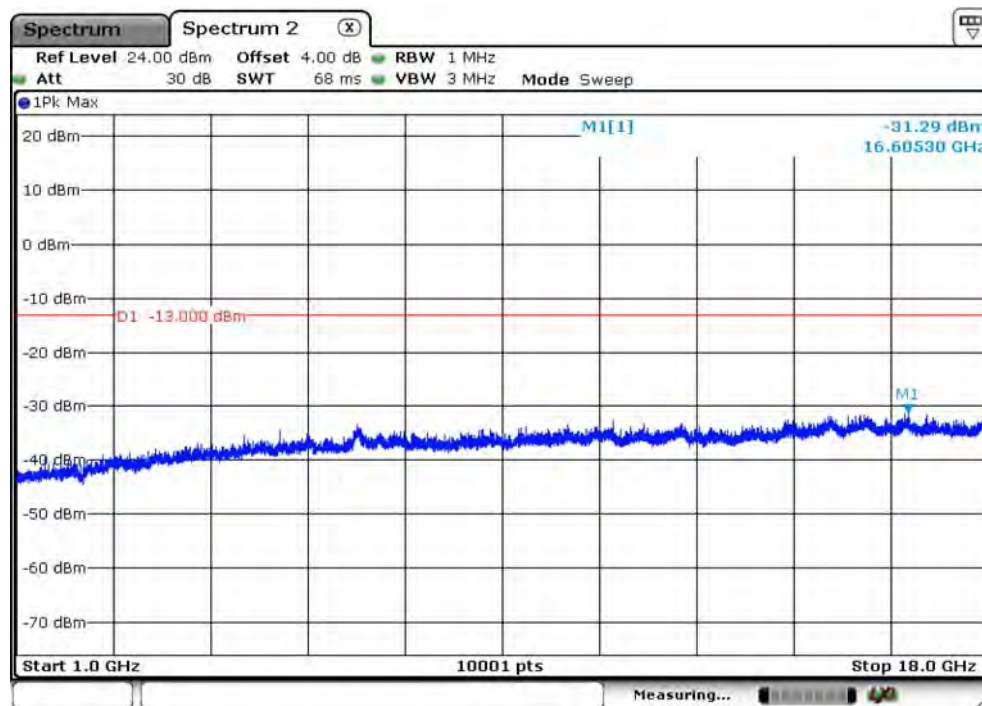
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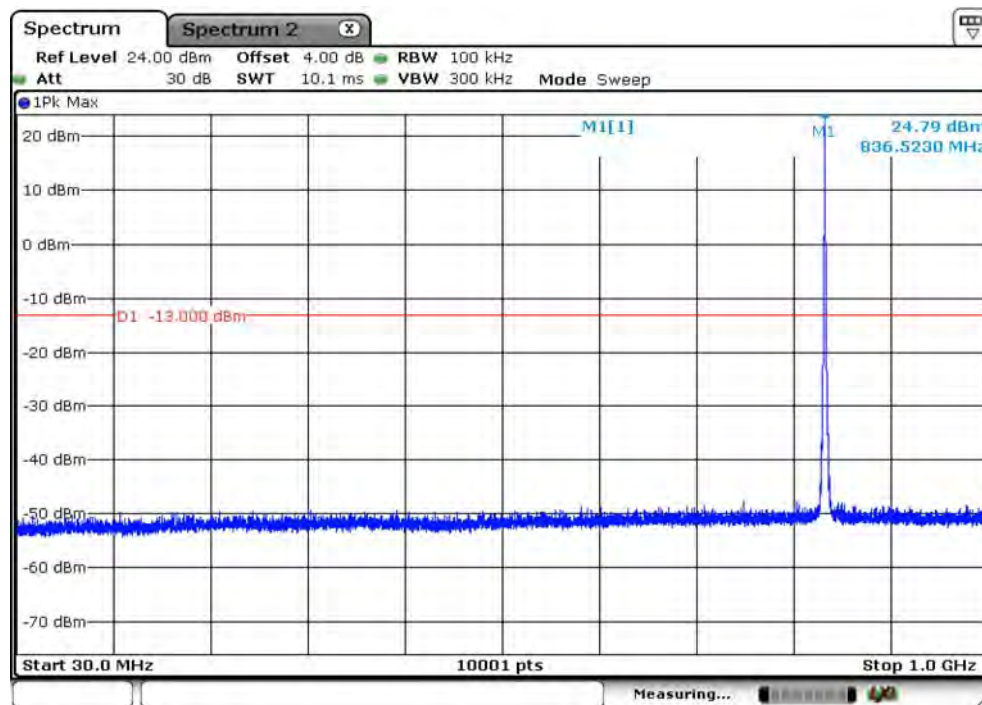
Date: 26.AUG.2020 22:21:56

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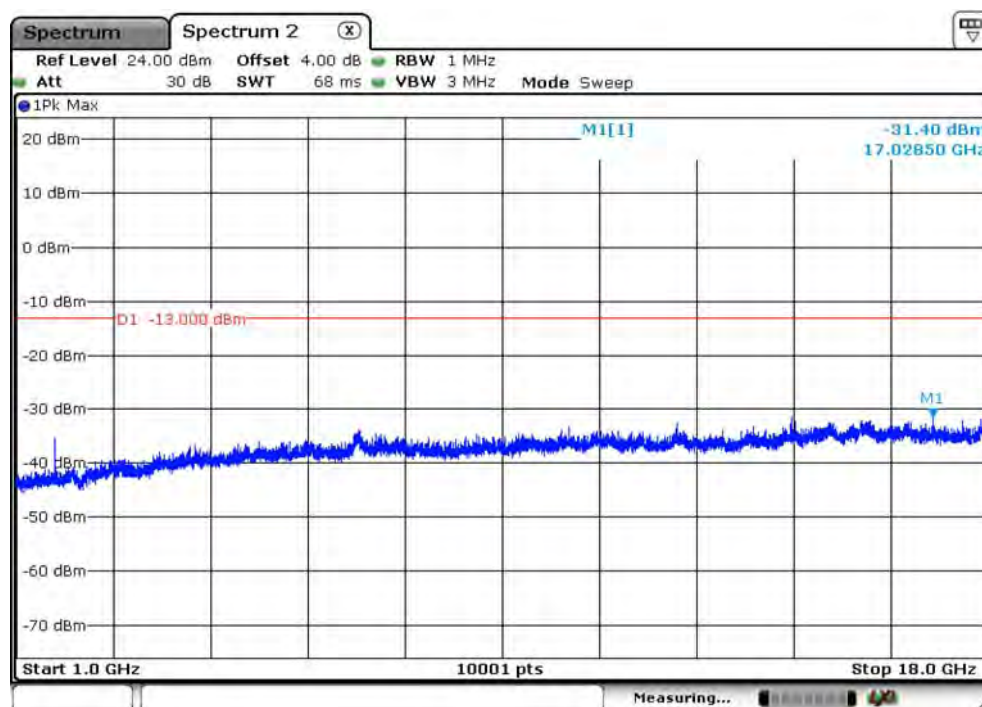
Date: 26.AUG.2020 22:21:01

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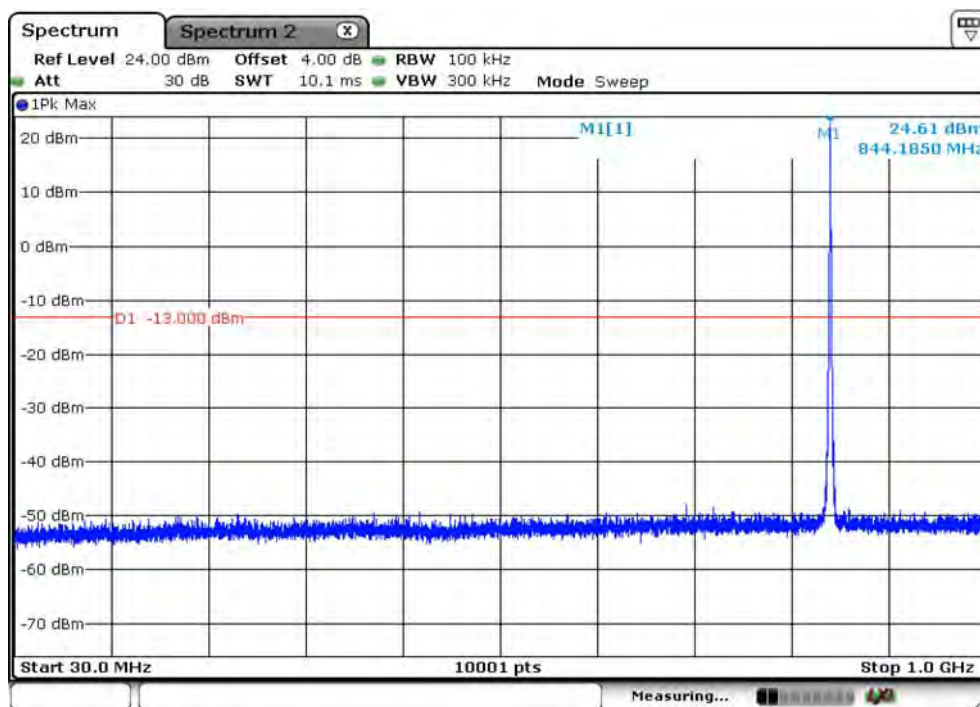
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B26_CH26915_10M_1RB24_QPSK_Above 1G



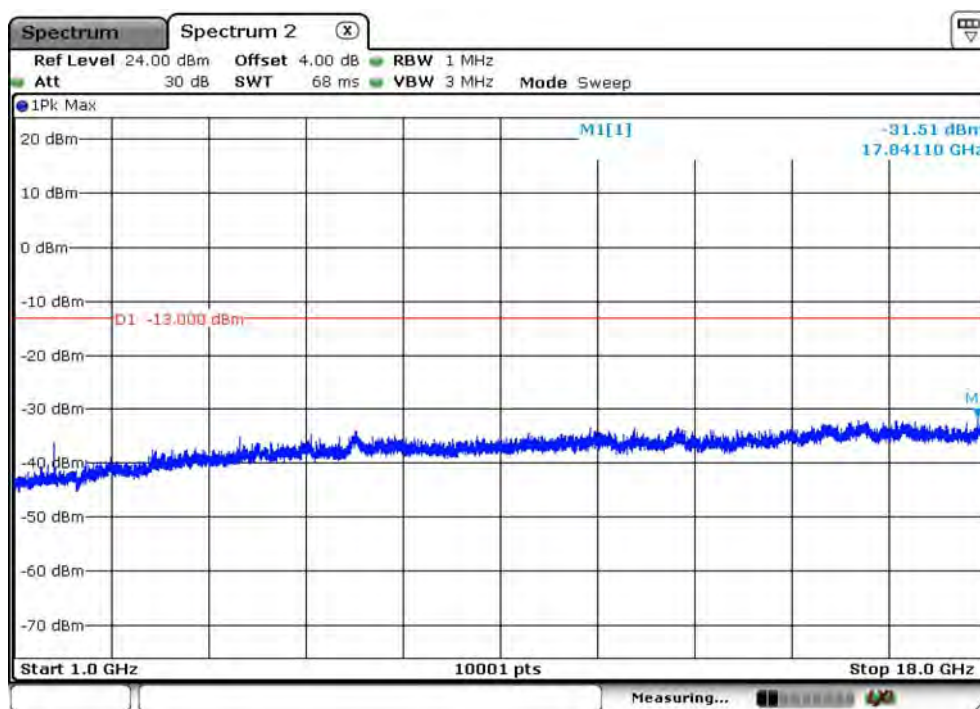
Date: 26.AUG.2020 22:19:17

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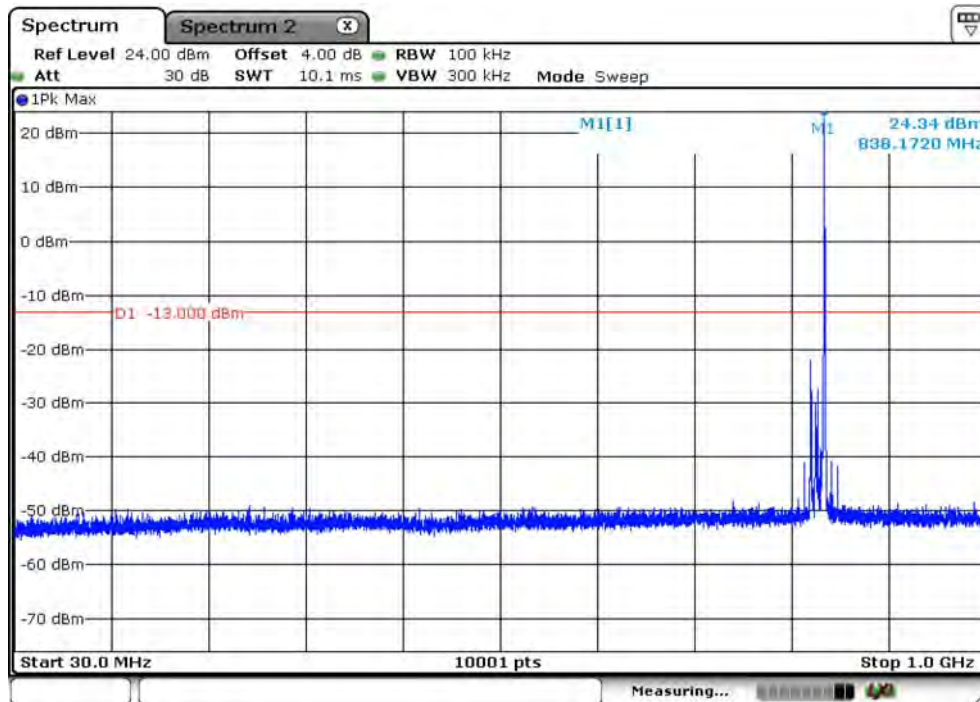
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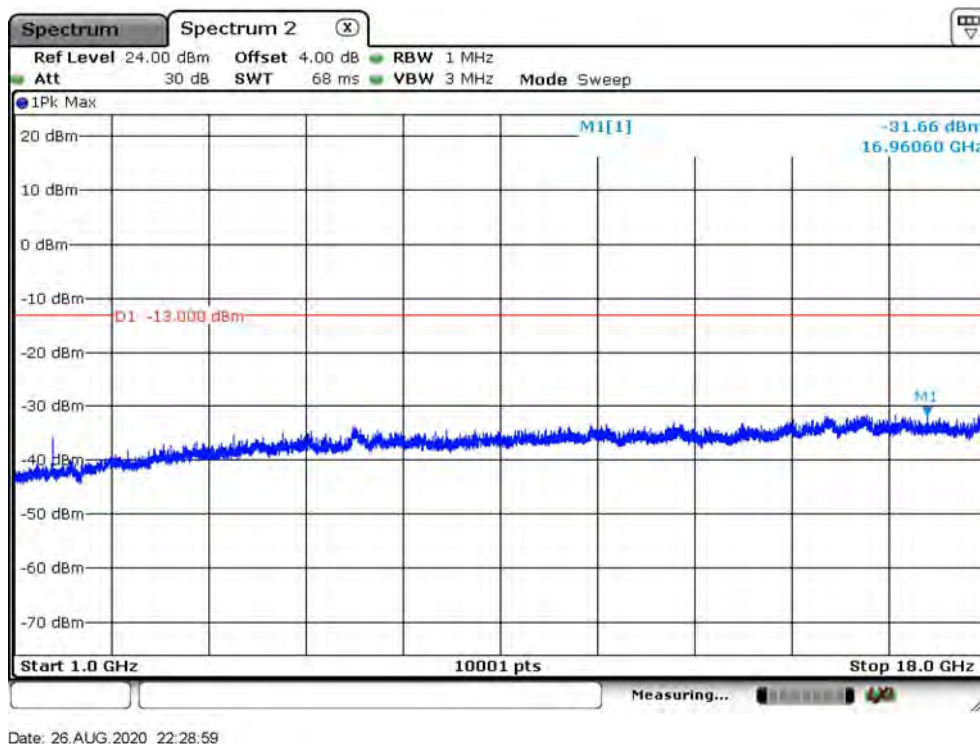


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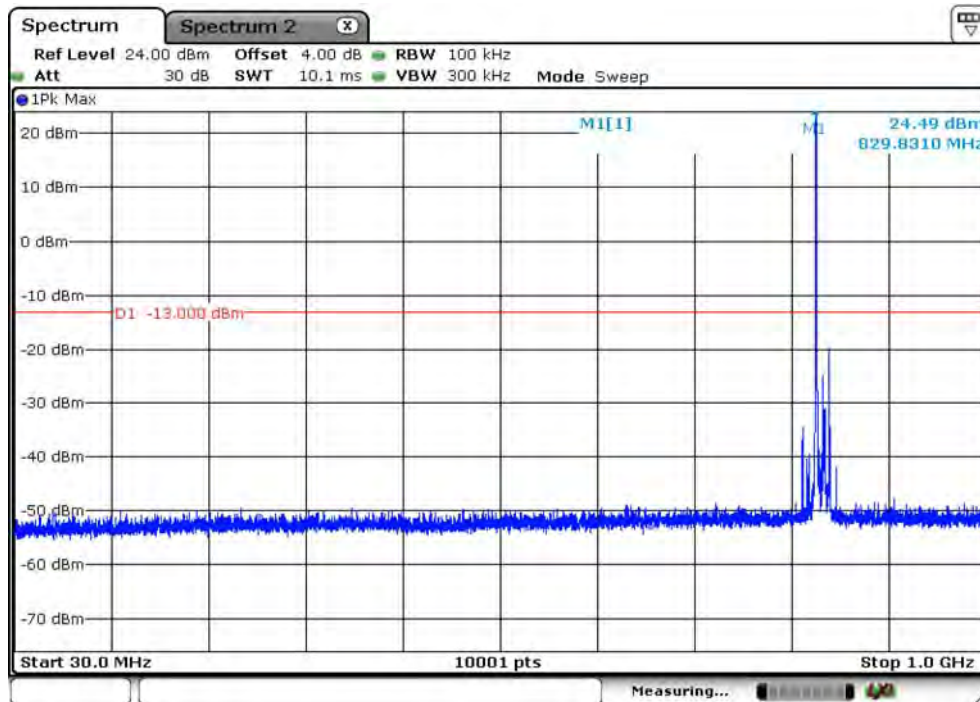
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B26_CH26865_15M_1RB0_QPSK_Above 1G

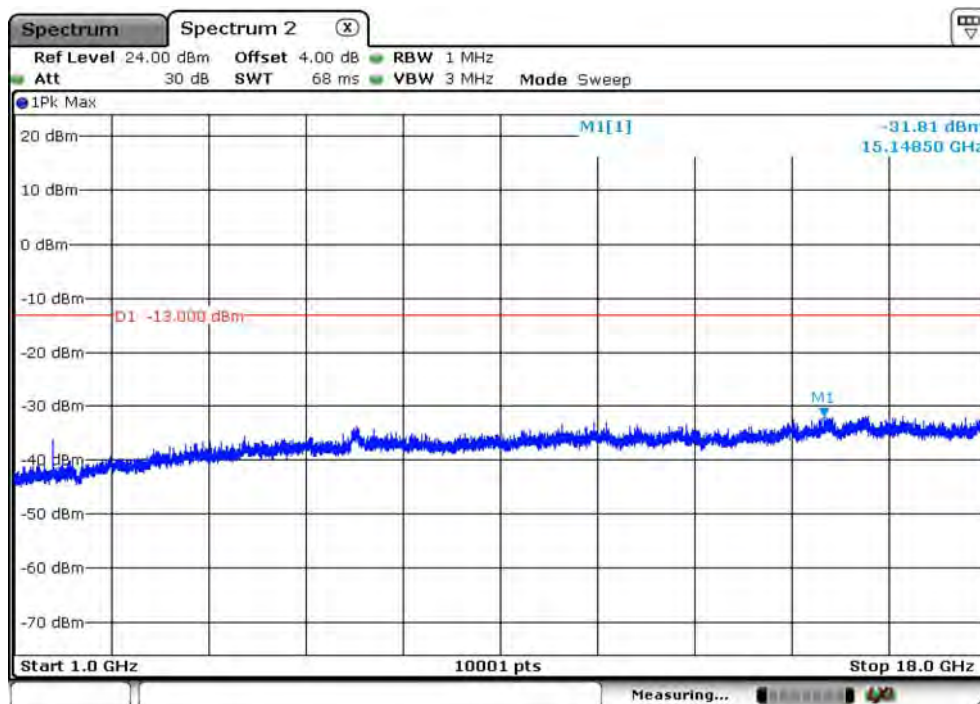


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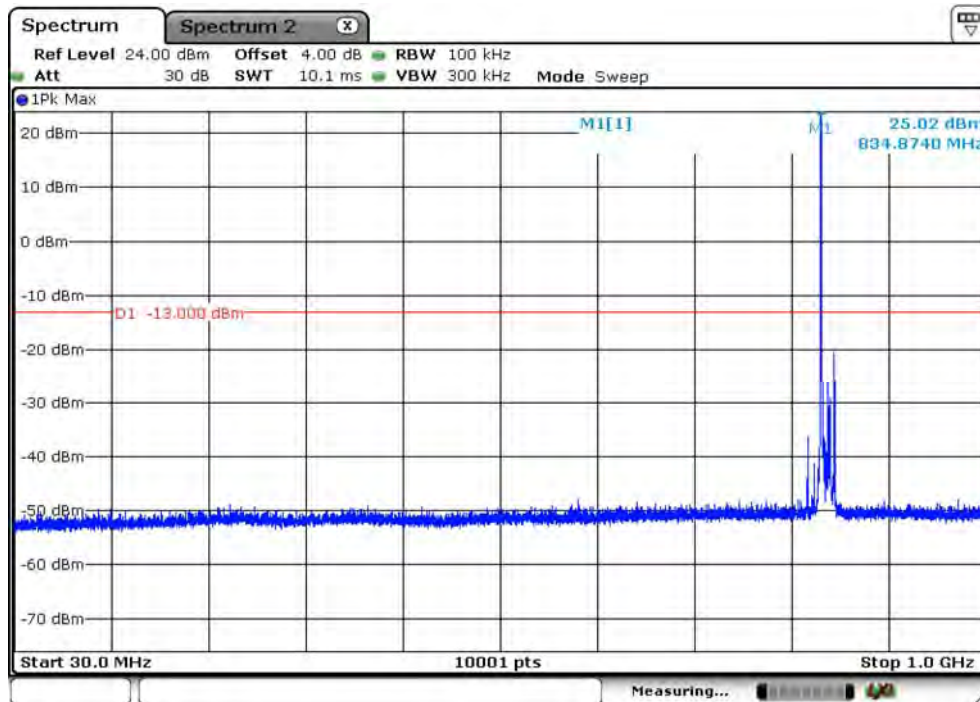
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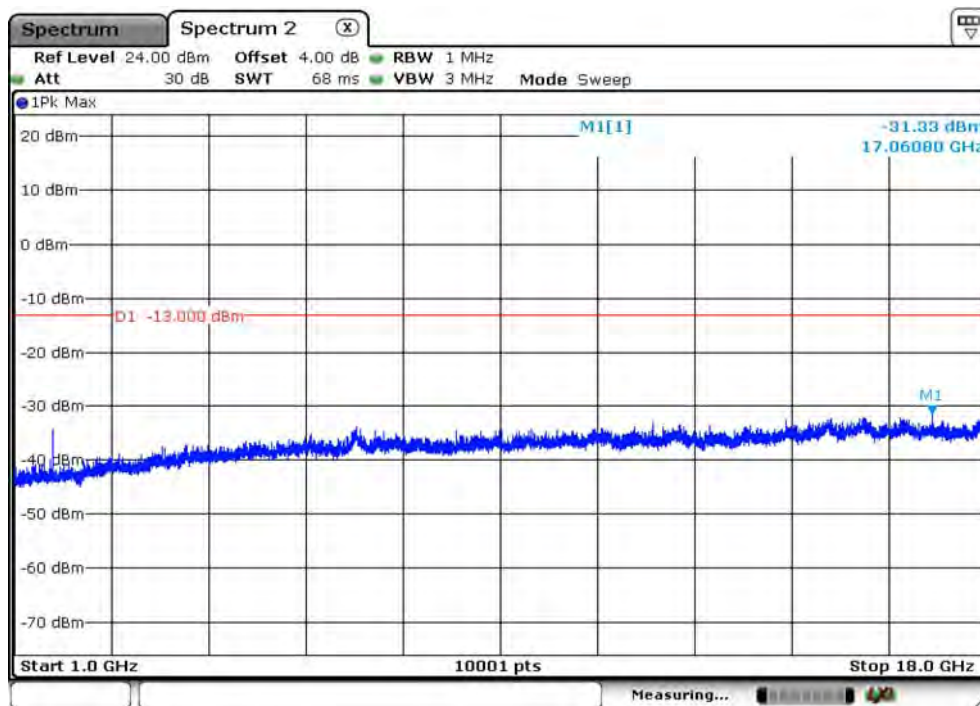
Date: 26.AUG.2020 22:24:41

B26_CH26965_15M_1RB0__QPSK_Below 1G



Date: 26.AUG.2020 22:26:47

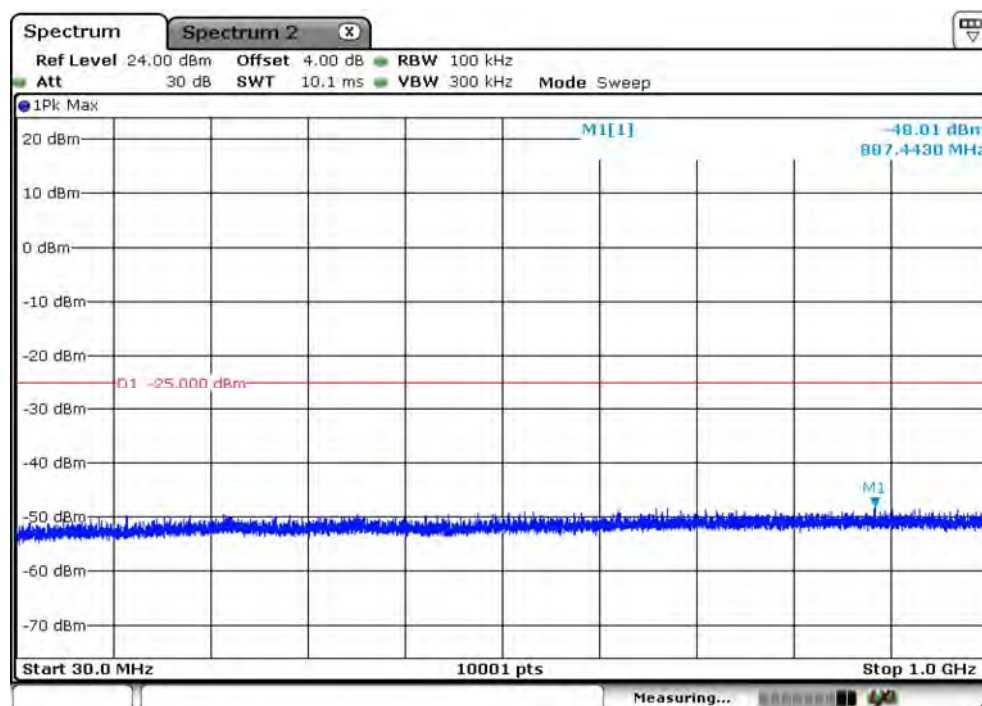
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Date: 26.AUG.2020 22:27:33

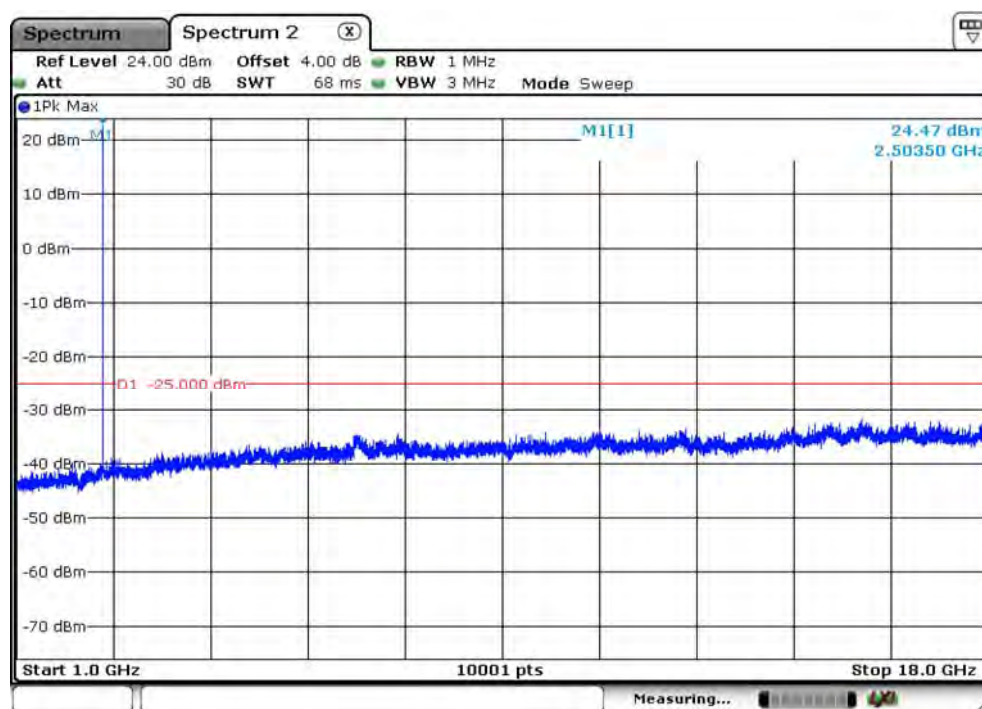
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2020/08/26	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	66

B7_CH20775_5M_1RB12_QPSK_Below 1G



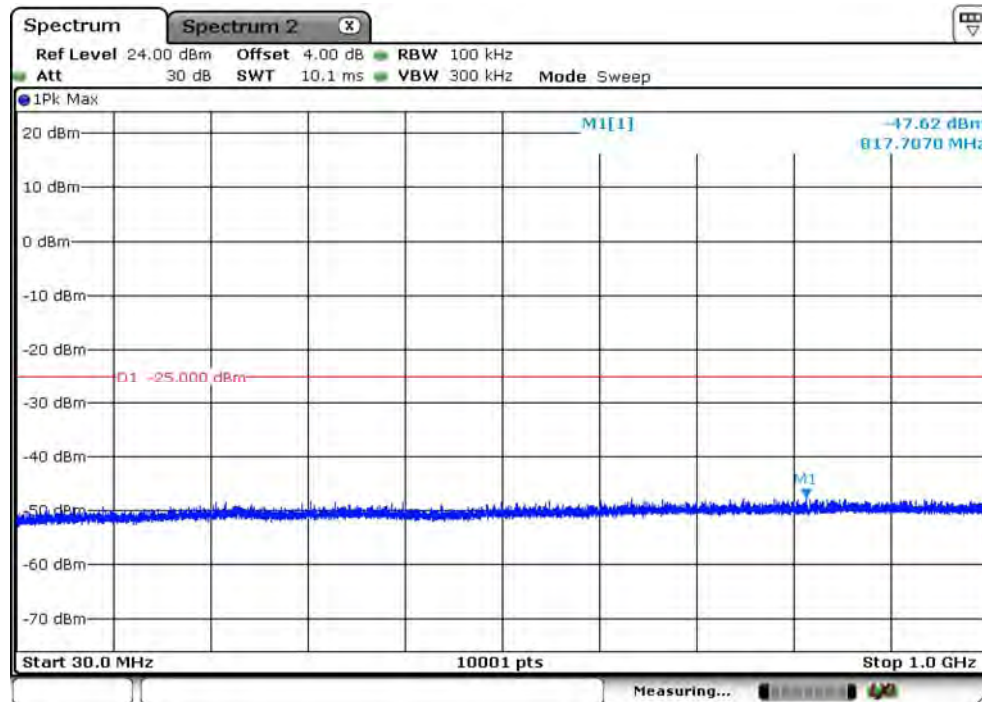
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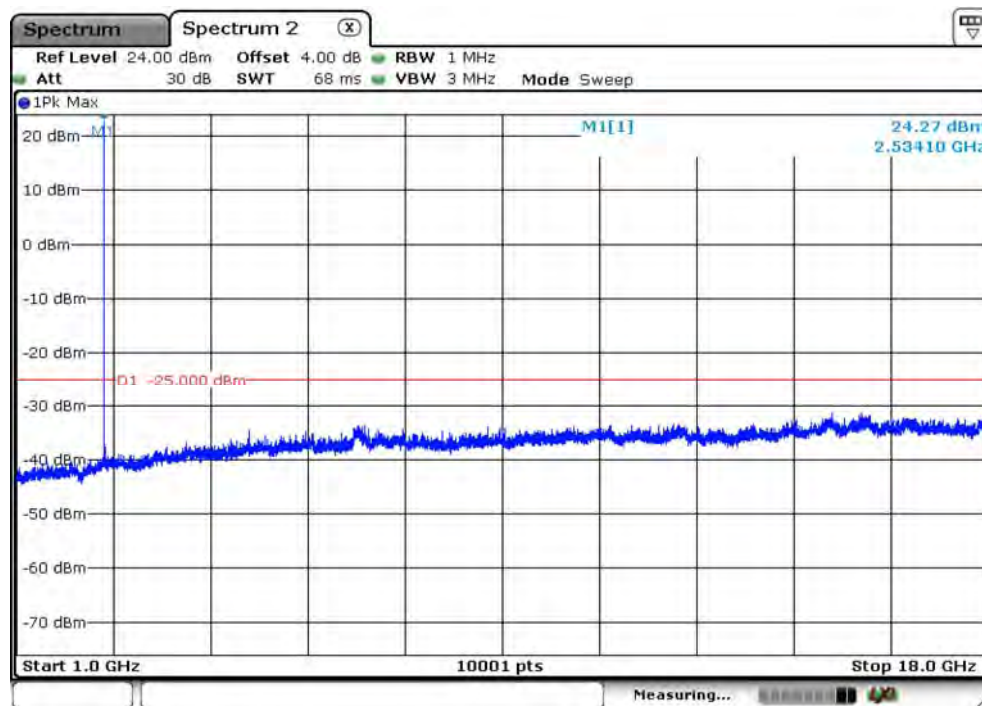
Date: 26.AUG.2020 16:33:12

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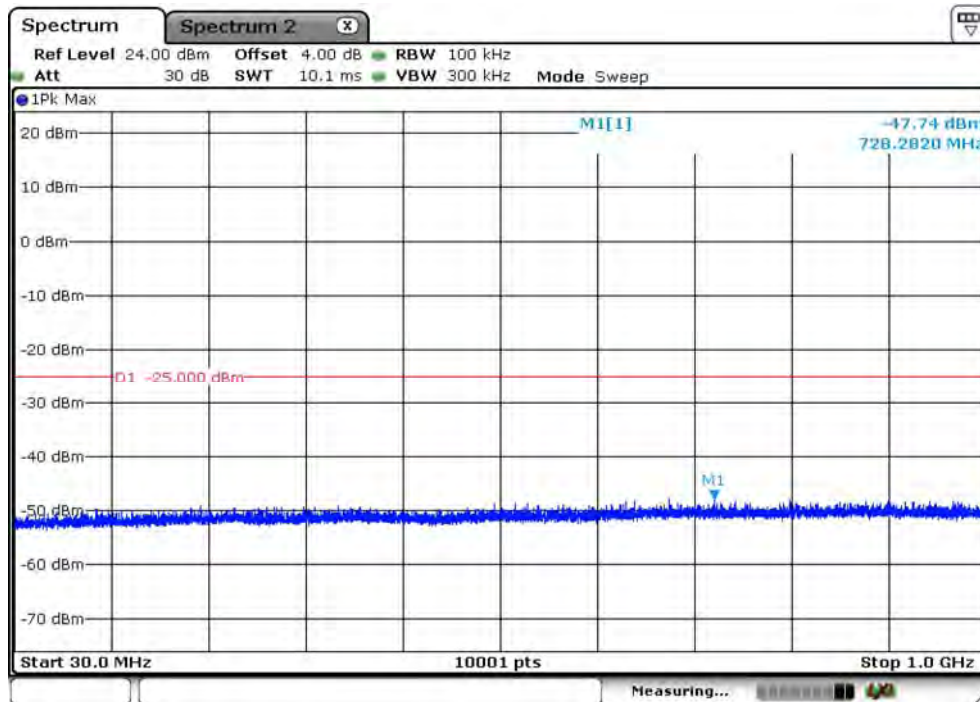
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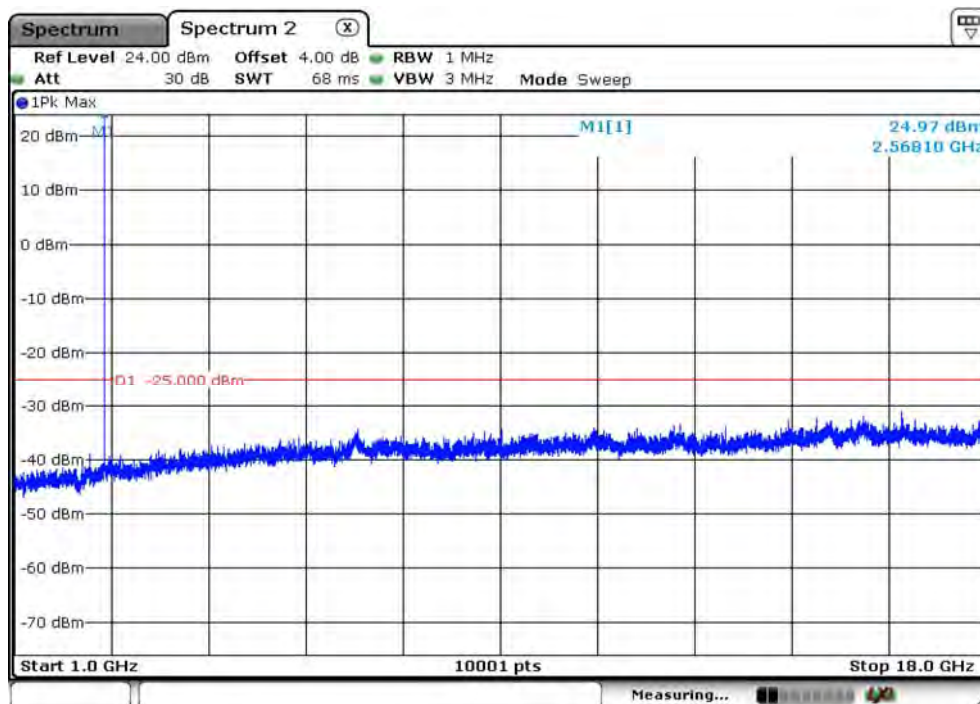
Date: 26.AUG.2020 16:34:54

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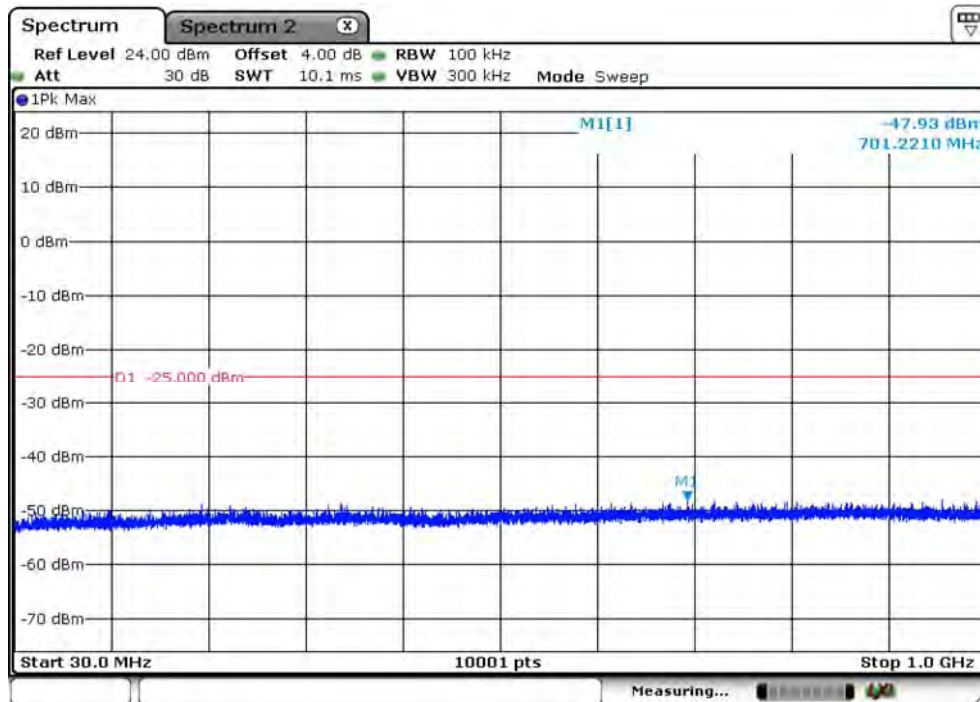
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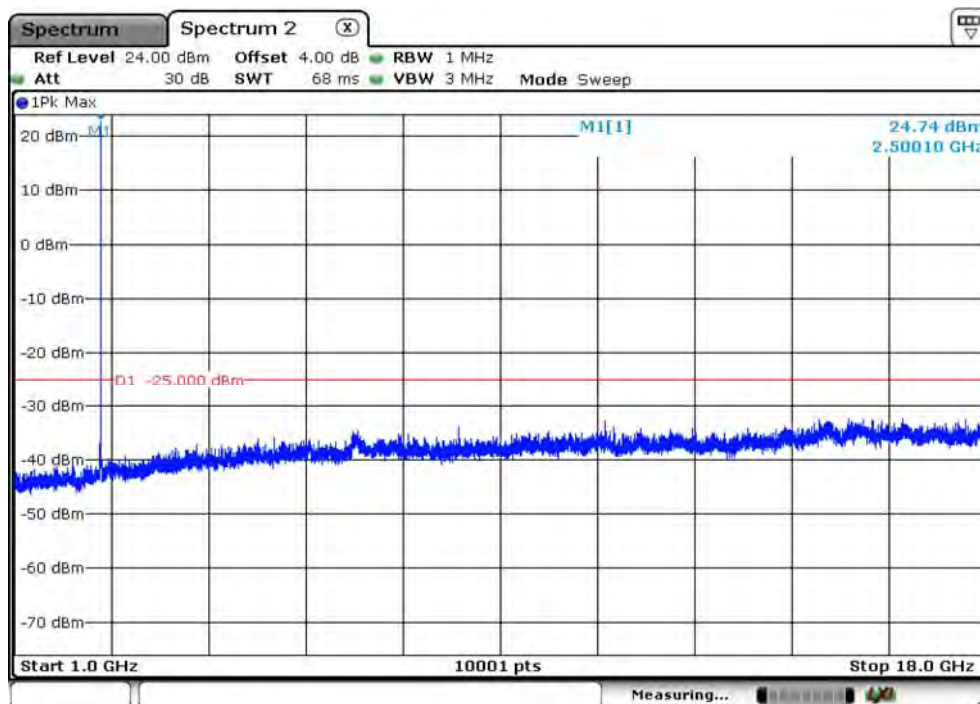
Date: 26.AUG.2020 16:33:34

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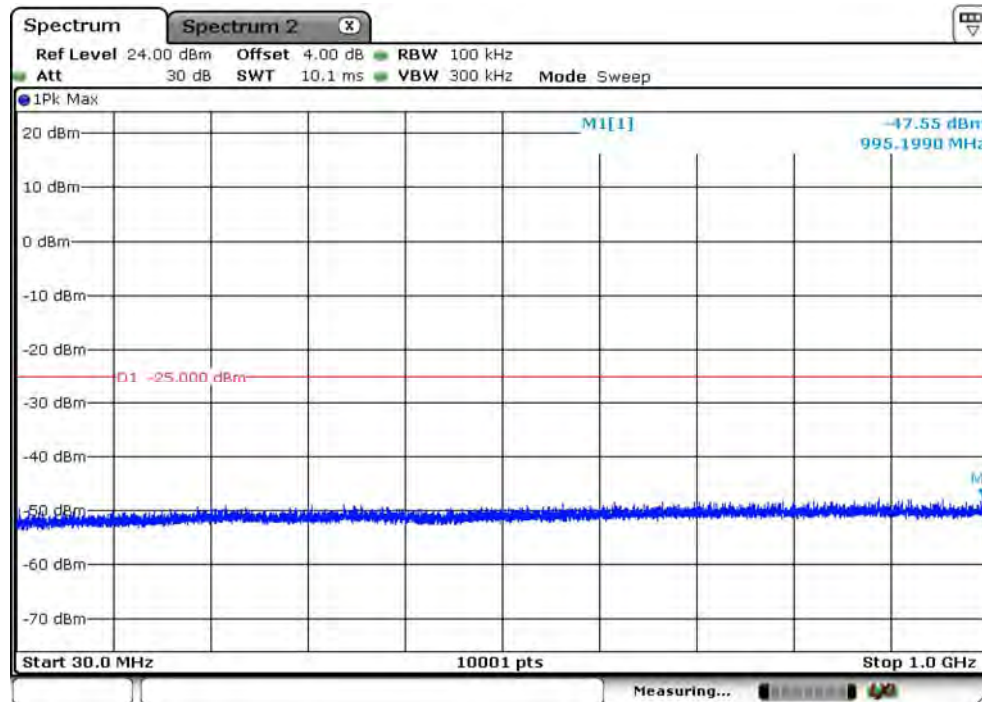
Date: 26.AUG.2020 15:07:18

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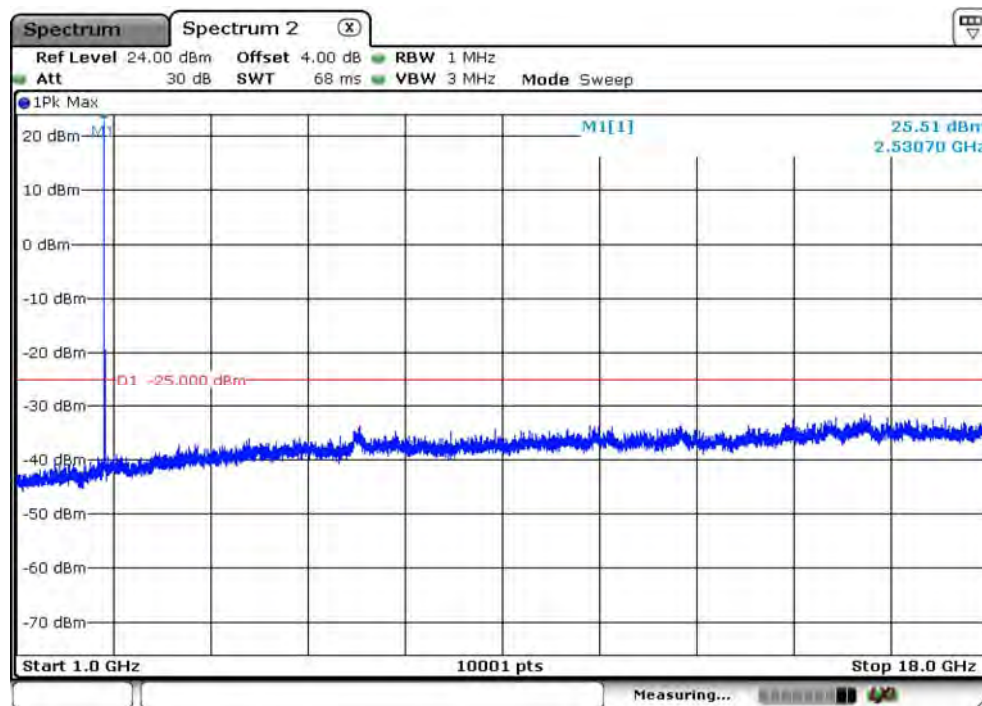
Date: 26.AUG.2020 16:31:52

B7_CH21100_10M_1RB0_QPSK_Below 1G



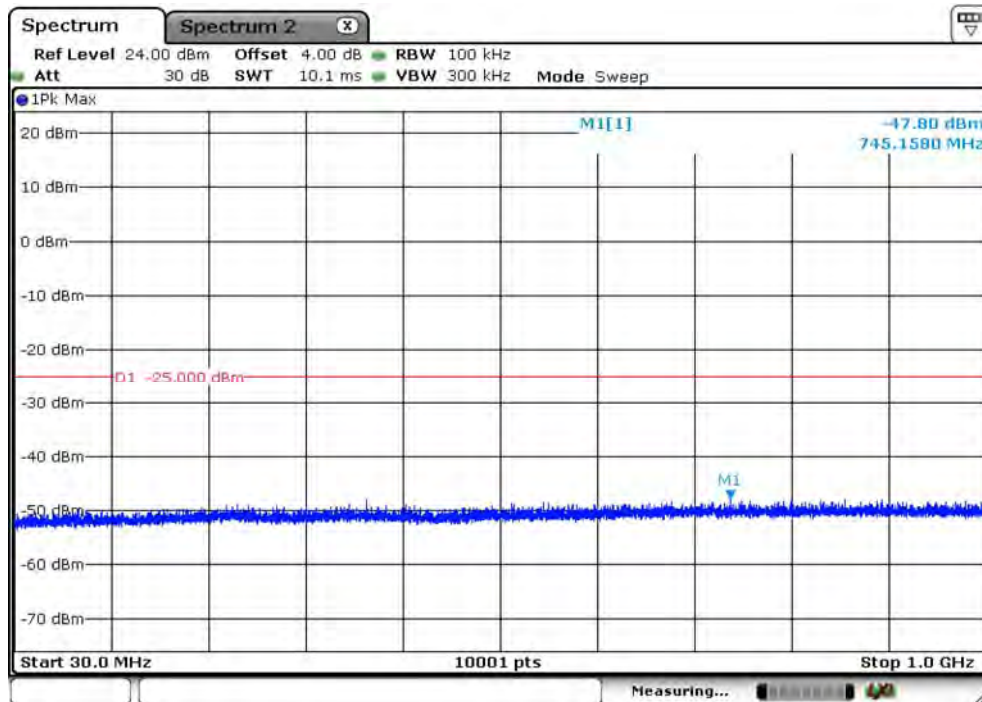
Date: 26.AUG.2020 15:15:10

B7_CH21100_10M_1RB0_QPSK_Above 1G



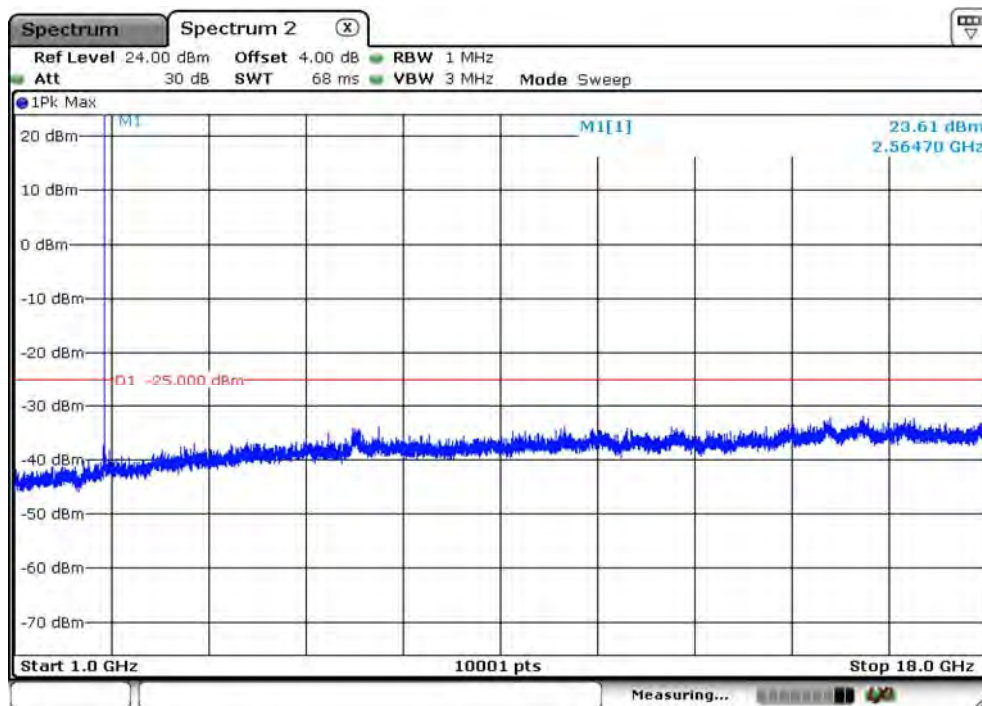
Date: 26.AUG.2020 16:30:57

B7_CH21400_10M_1RB24__QPSK_Below 1G



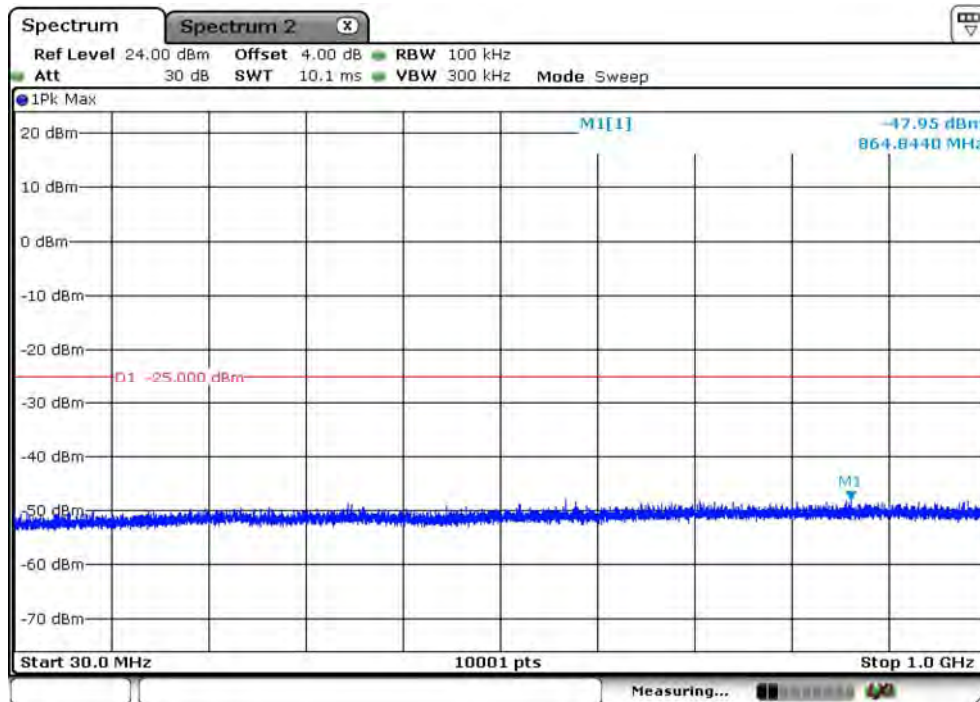
Date: 26.AUG.2020 15:26:02

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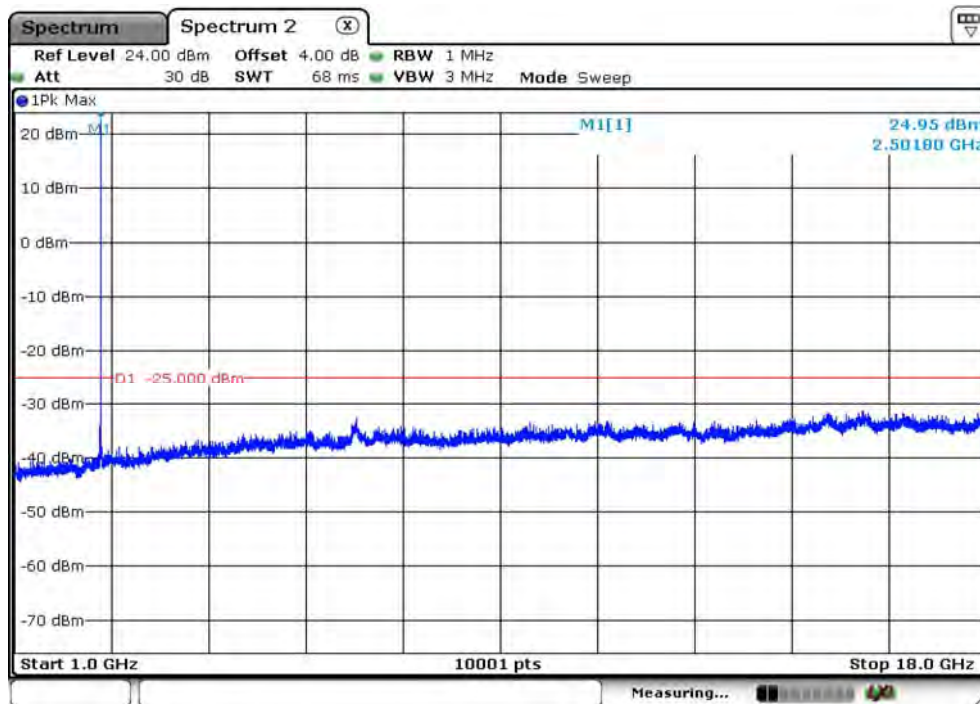
Date: 26.AUG.2020 16:32:19

B7_CH20825_15M_1RB0_QPSK_Below 1G



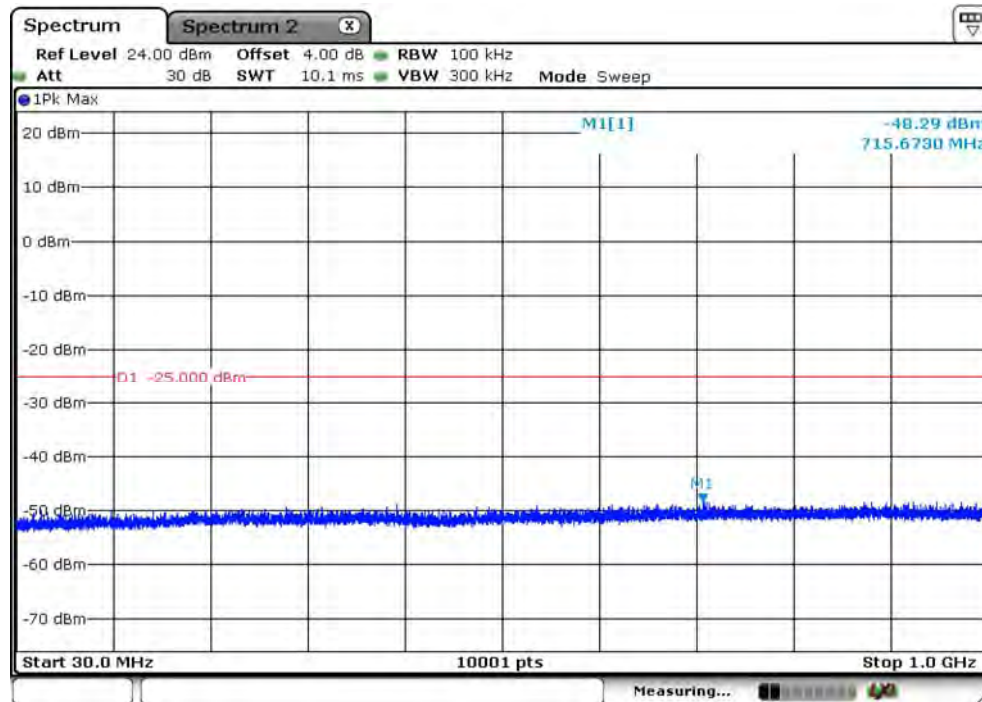
Date: 26.AUG.2020 15:29:01

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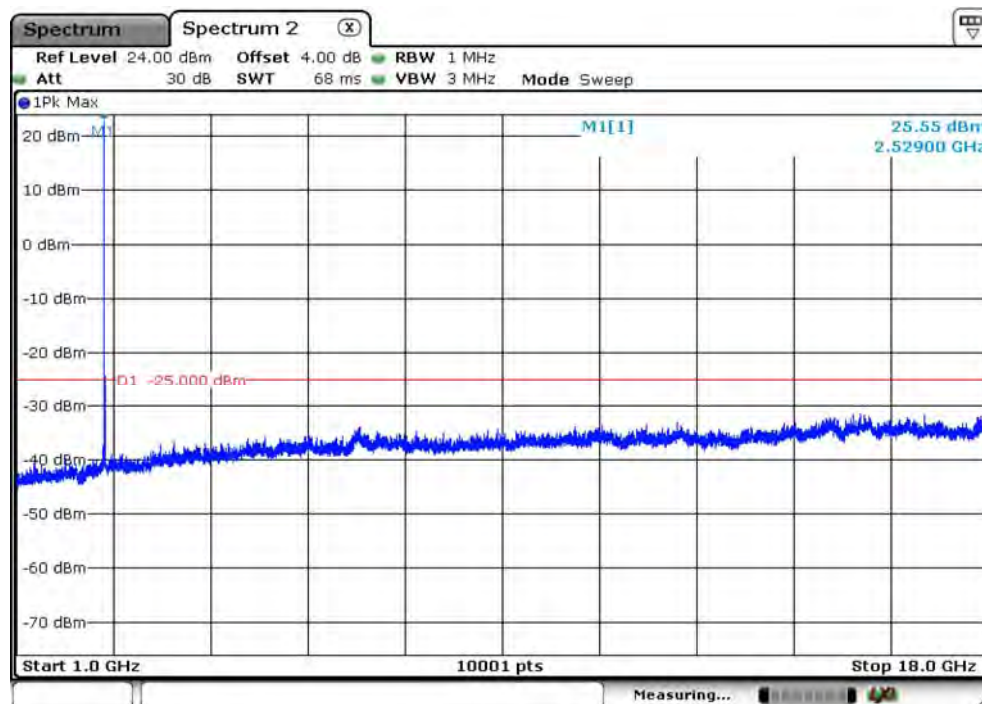
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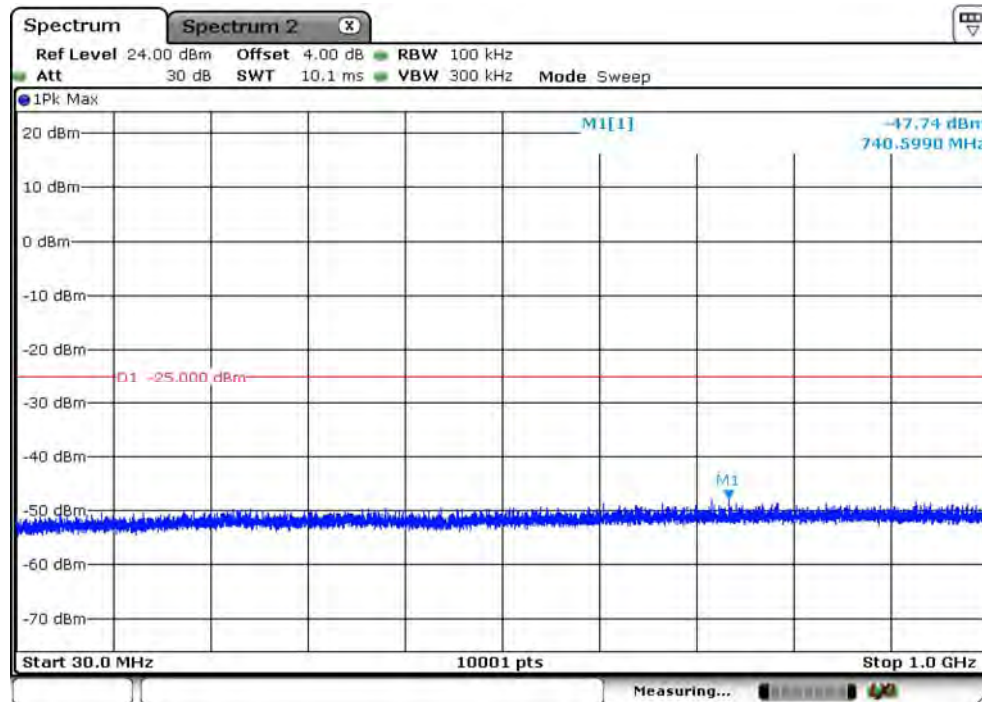
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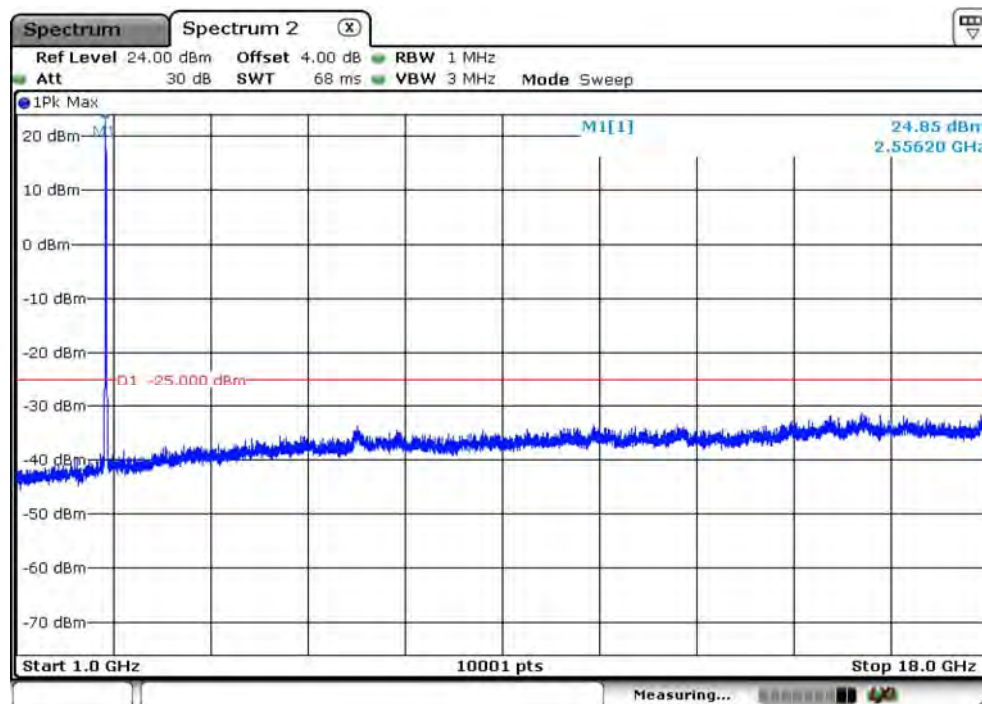
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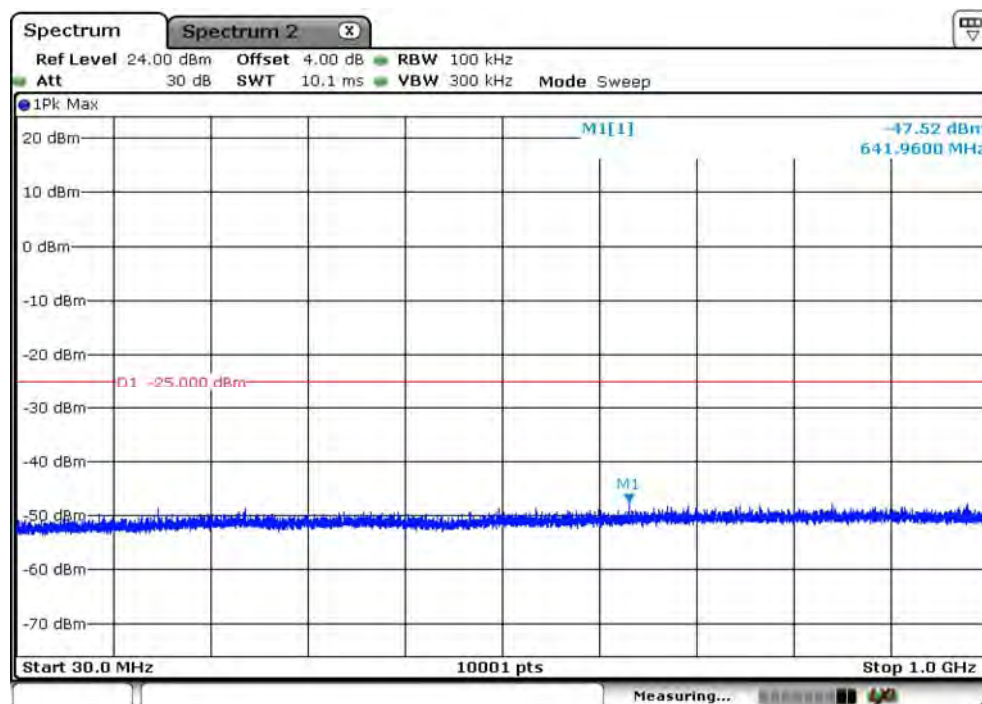
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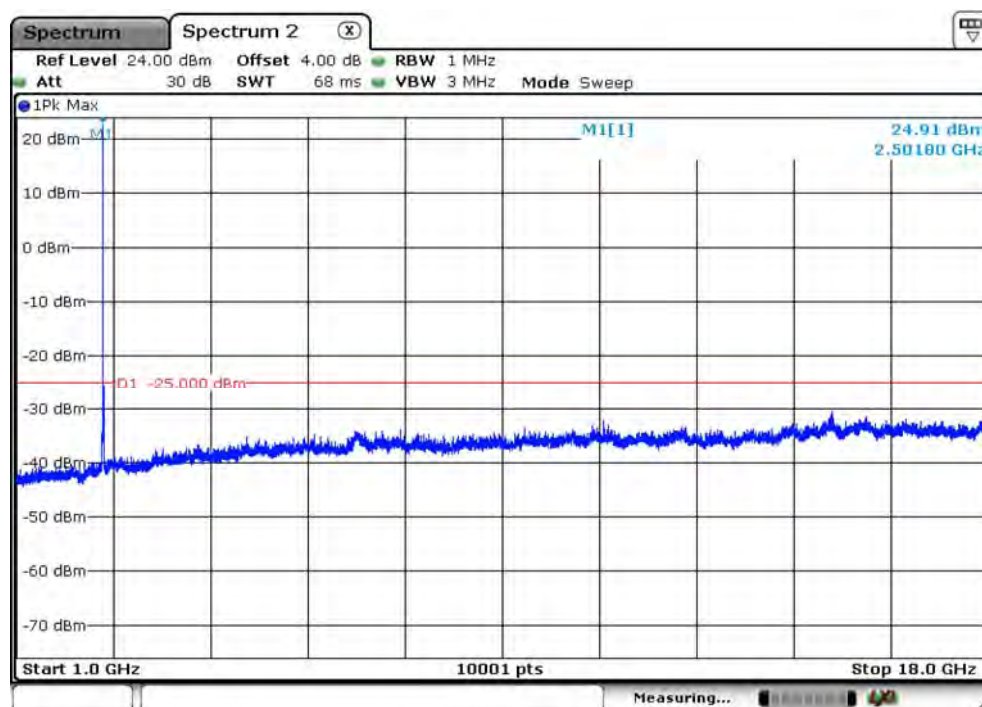
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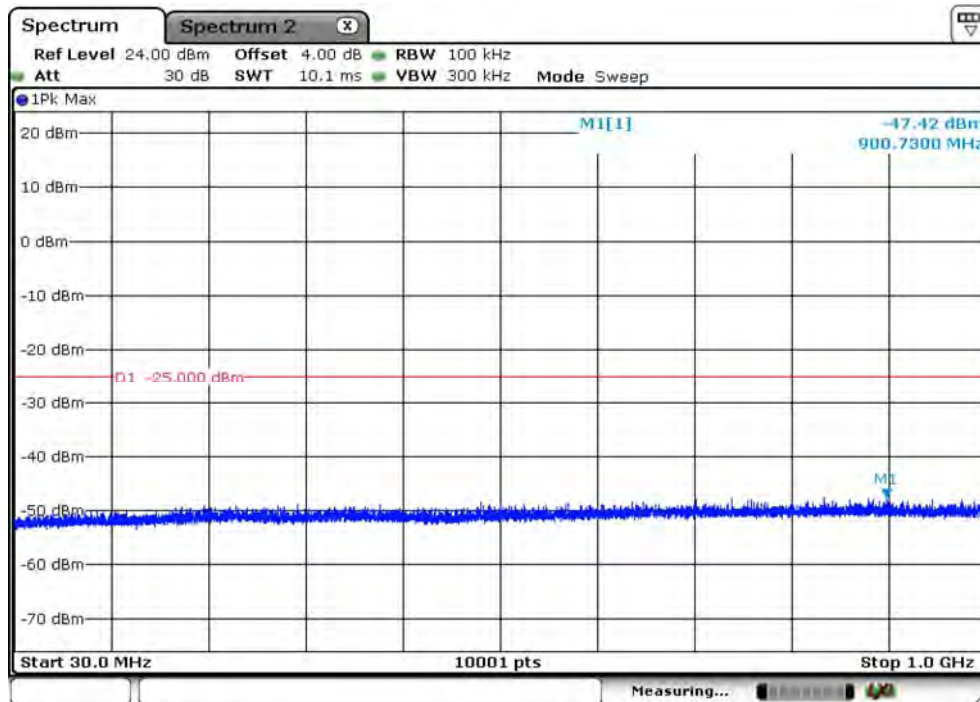
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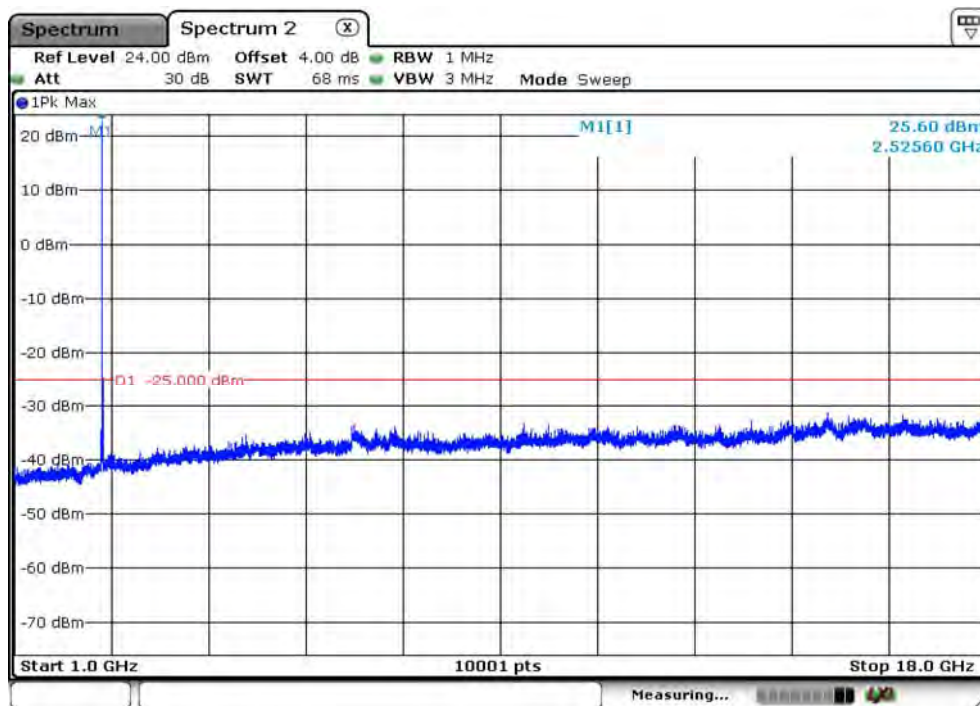
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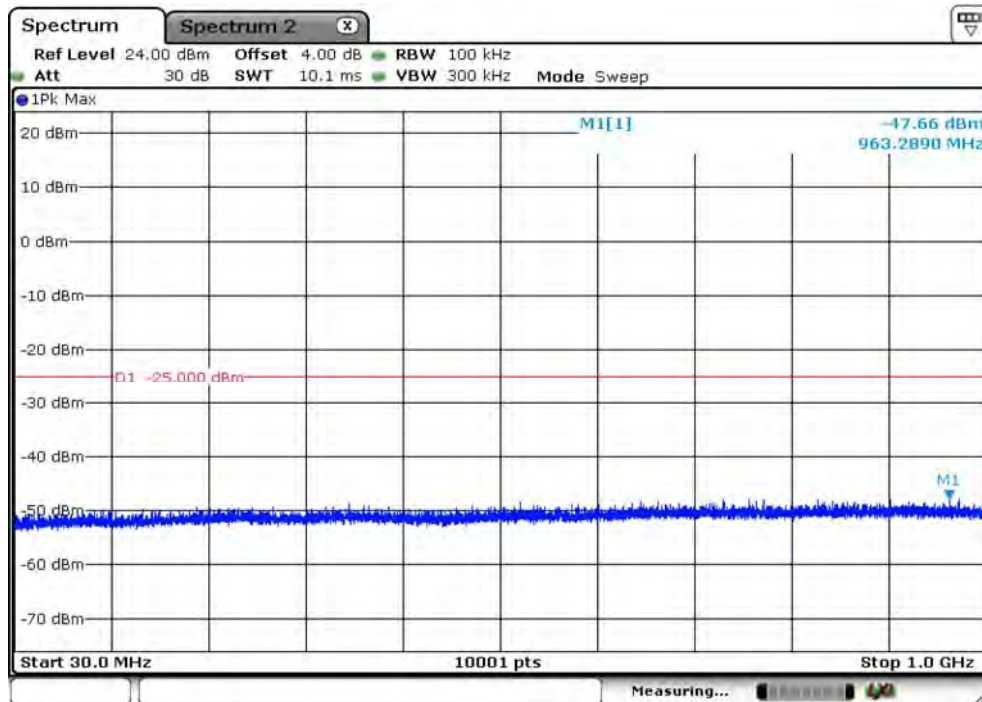
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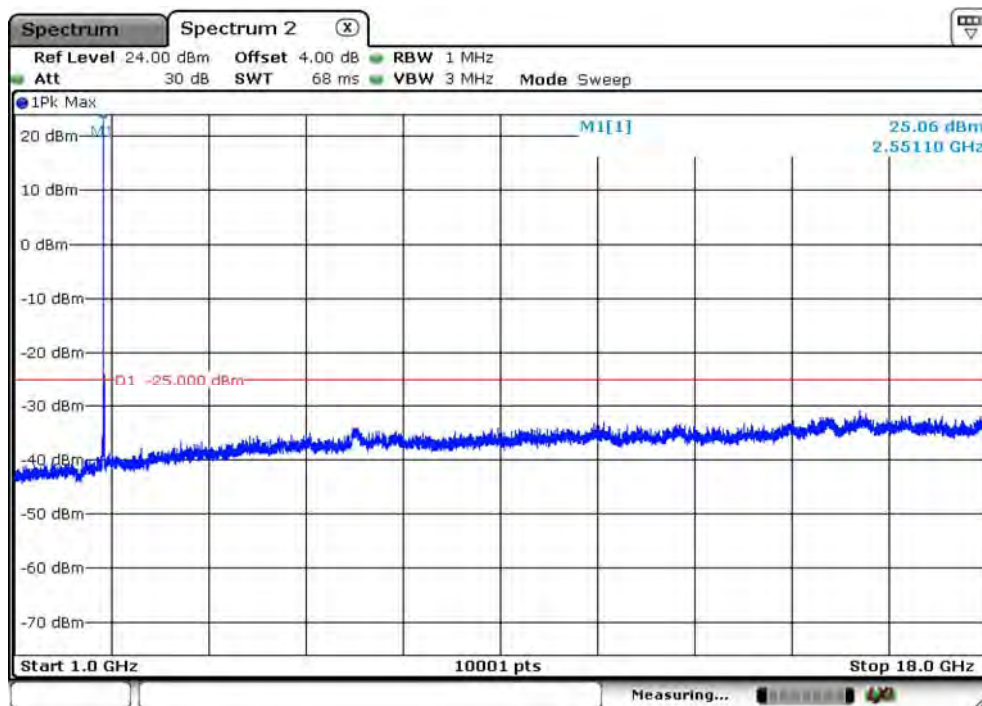
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Date: 26.AUG.2020 16:45:25