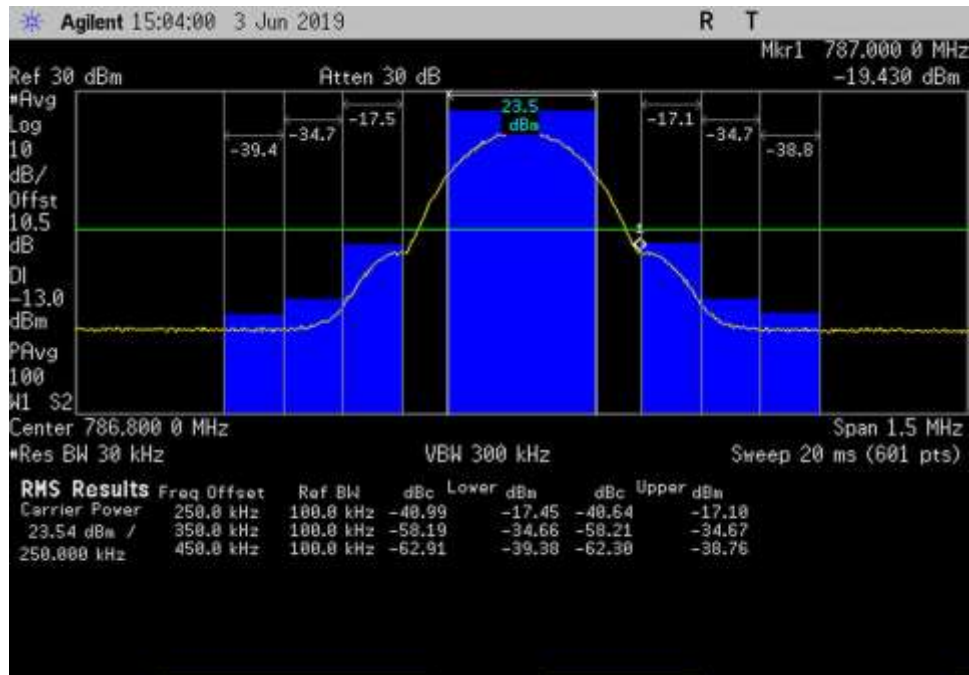
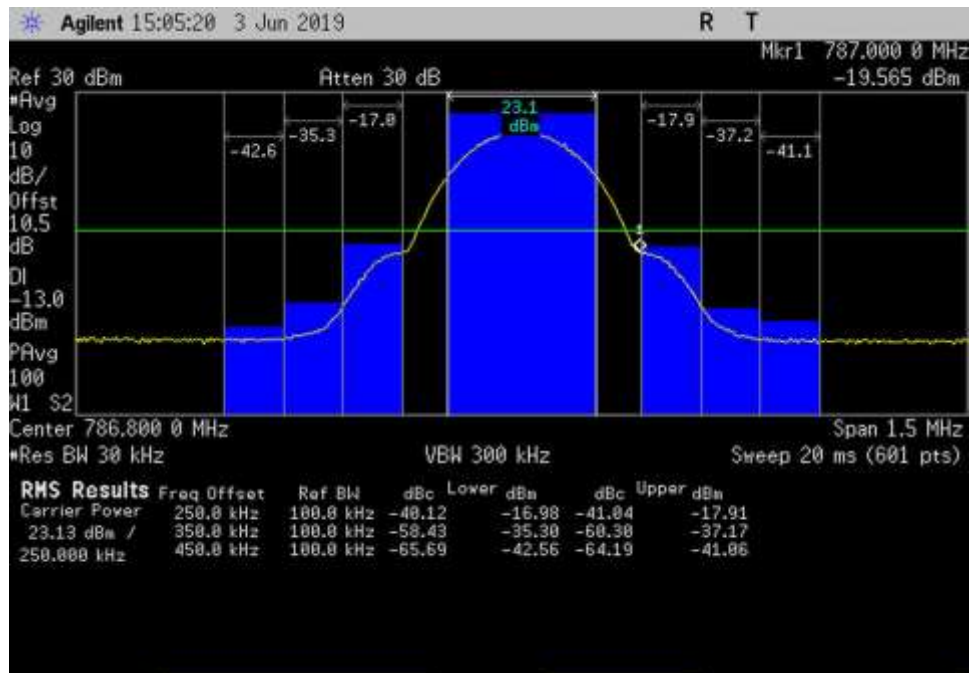
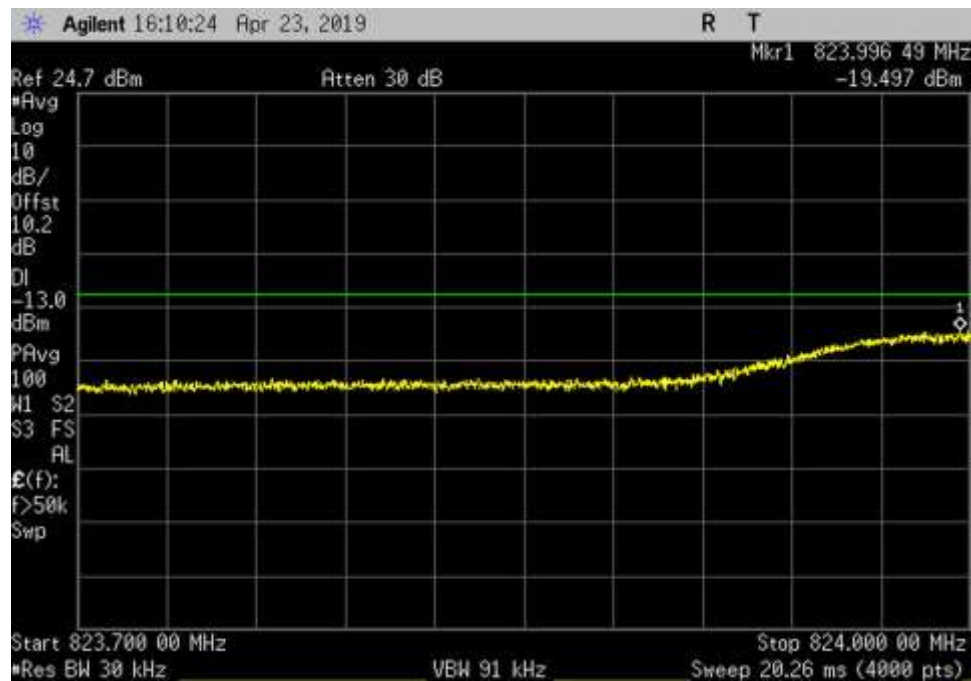




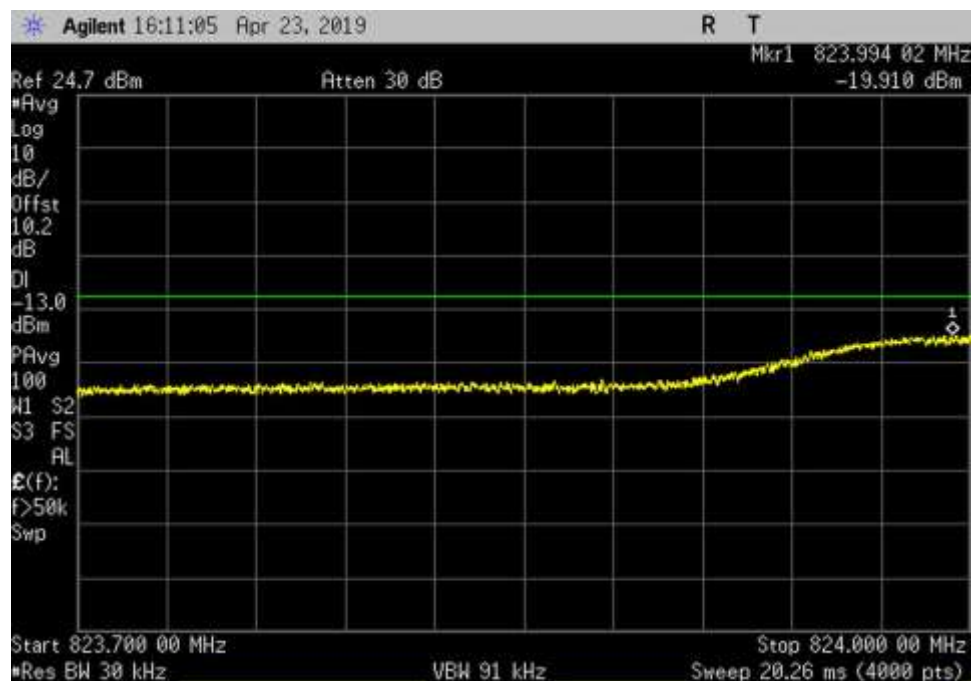
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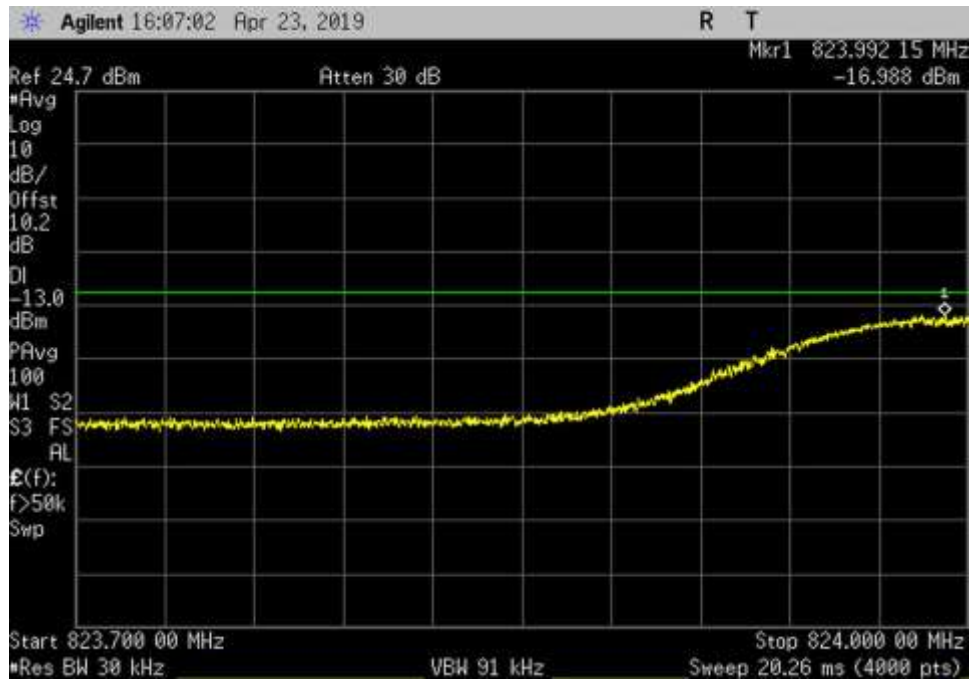
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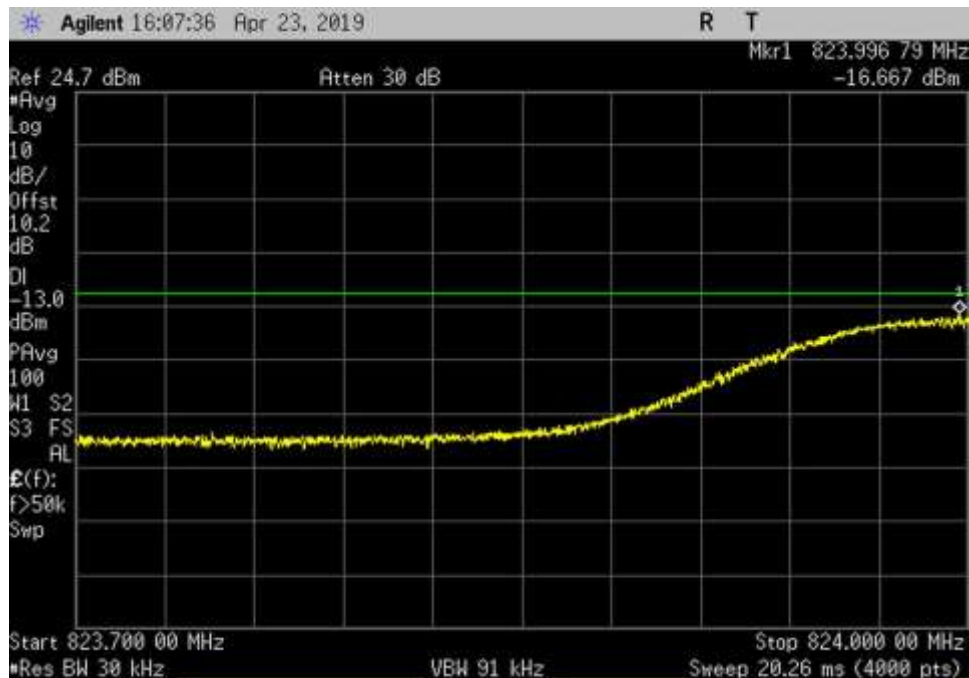
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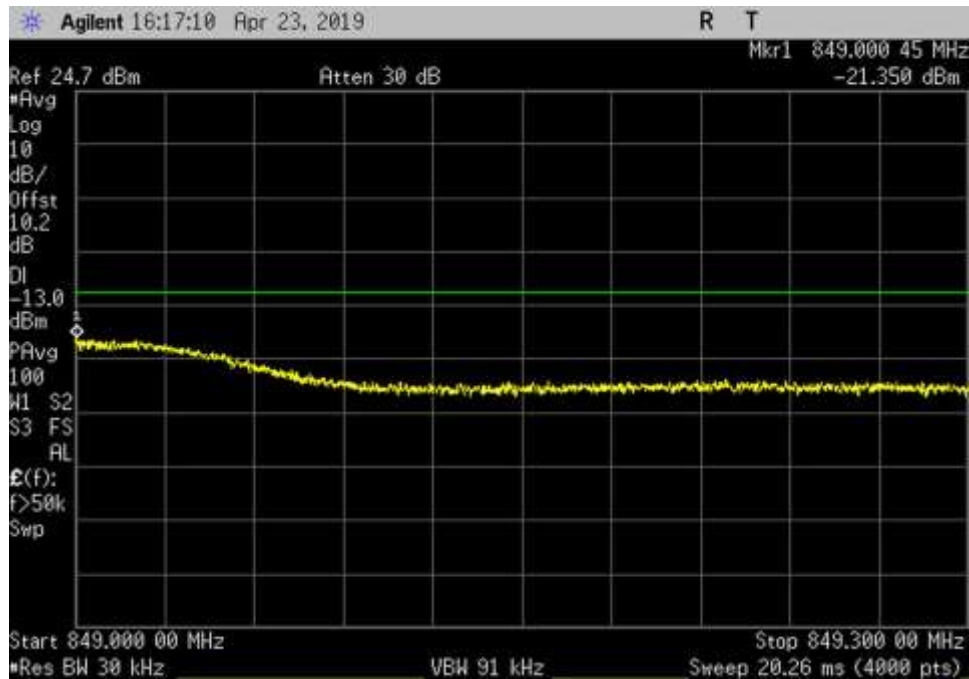
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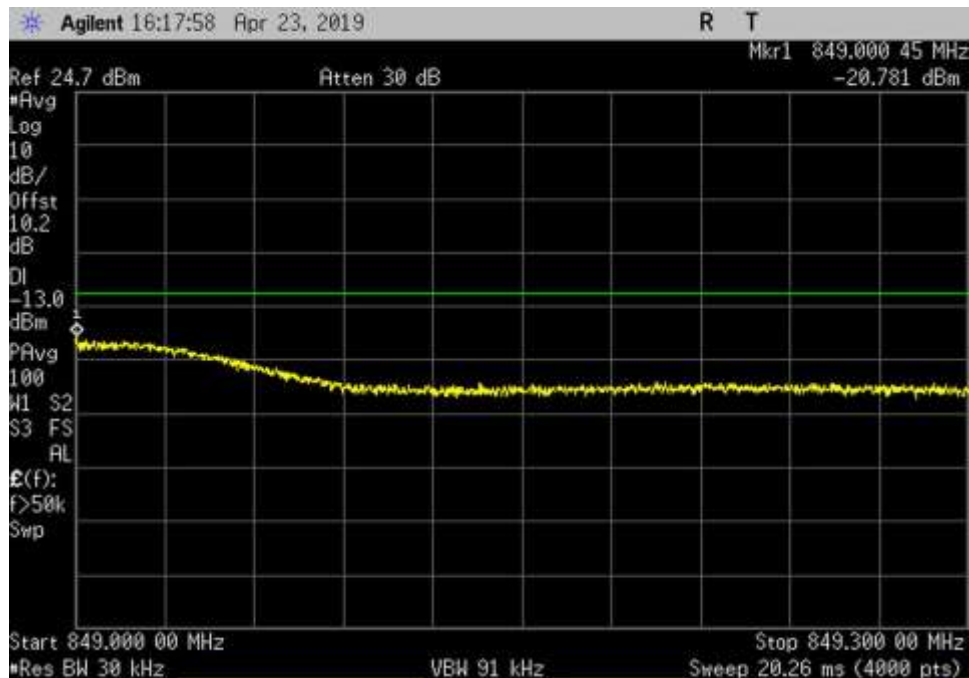
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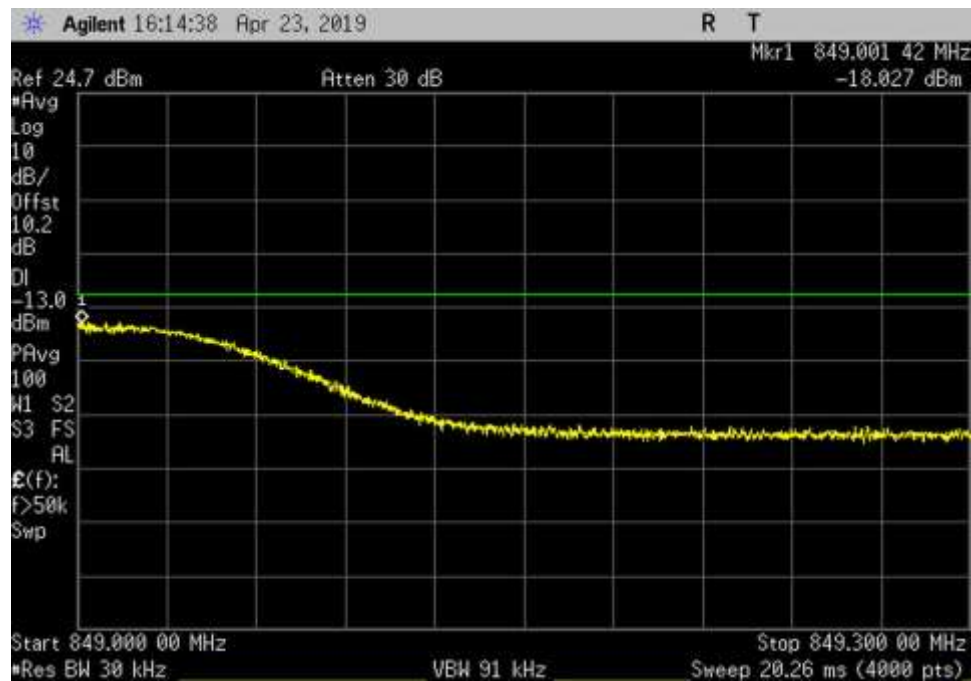
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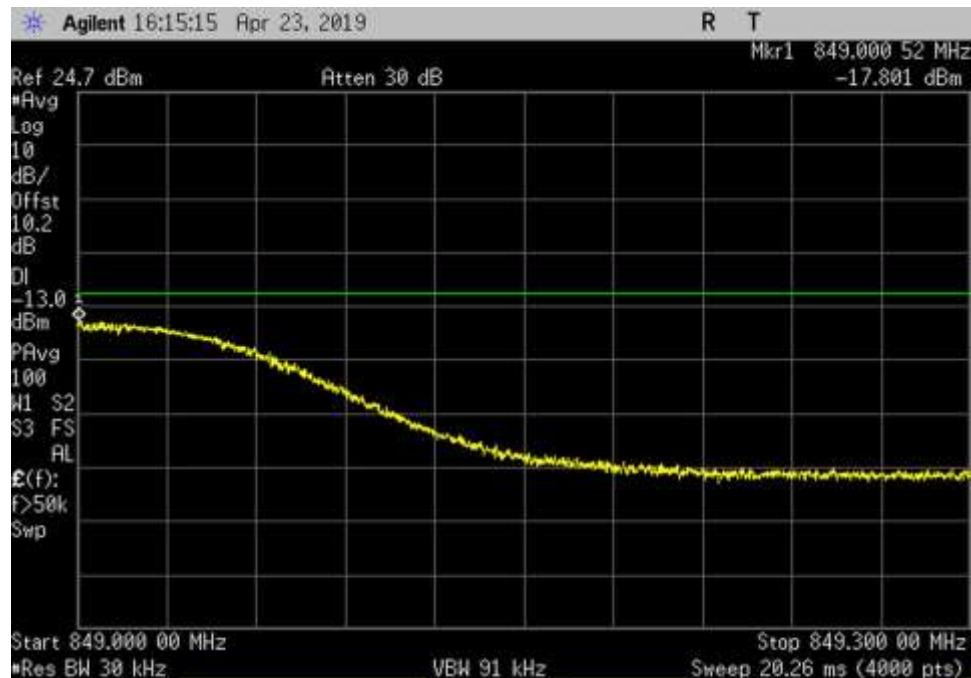
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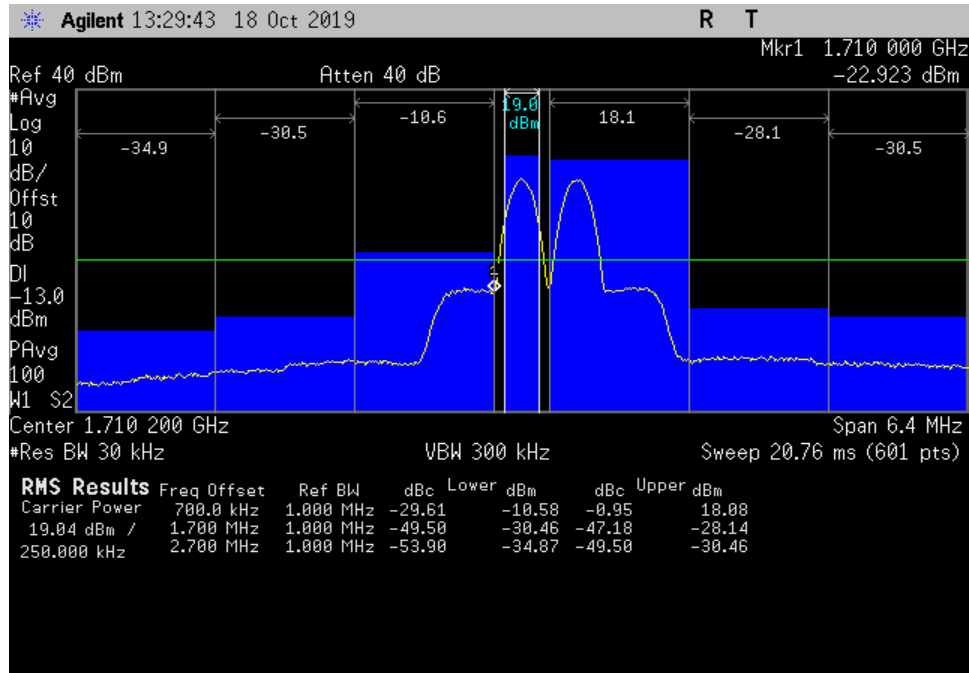
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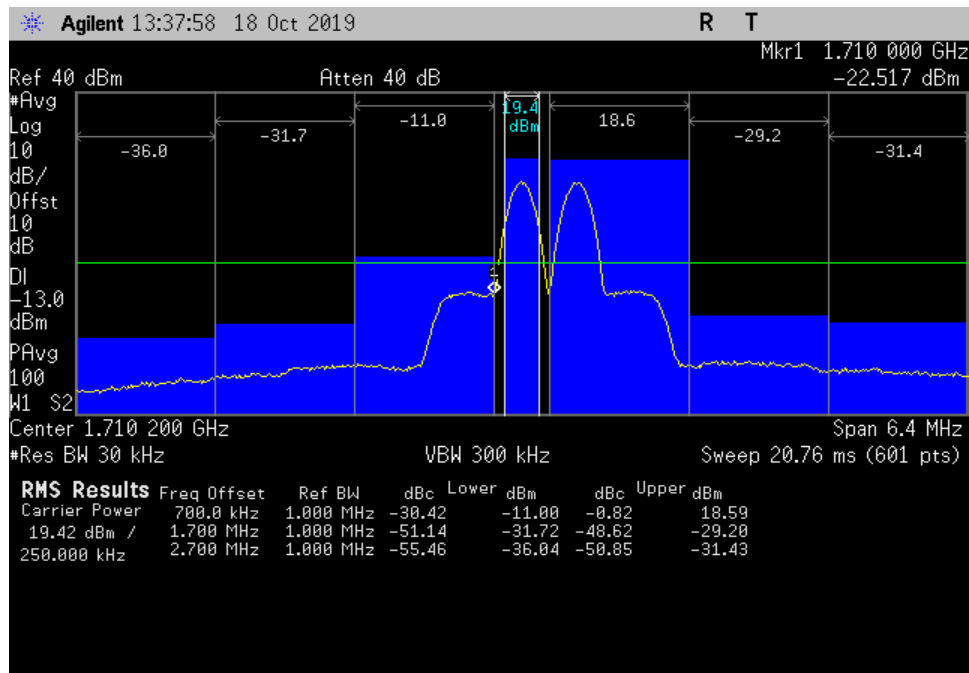
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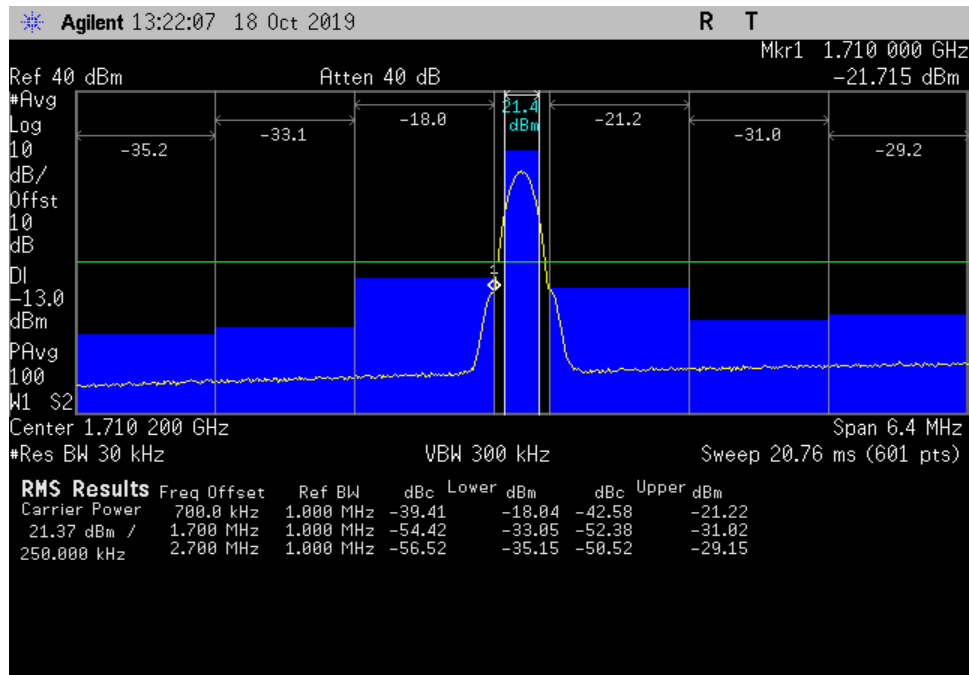
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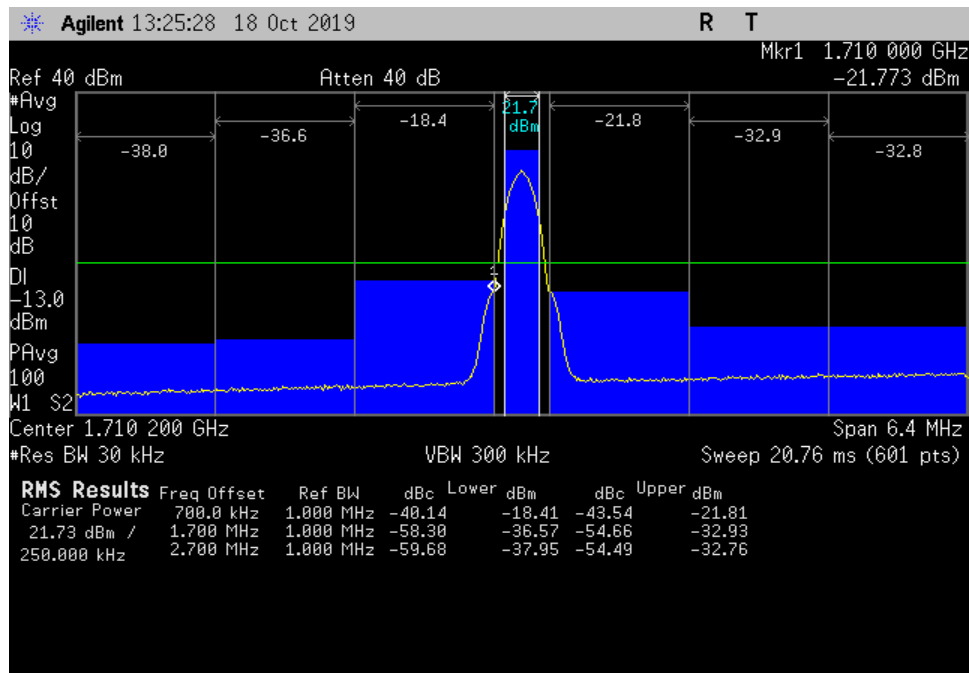
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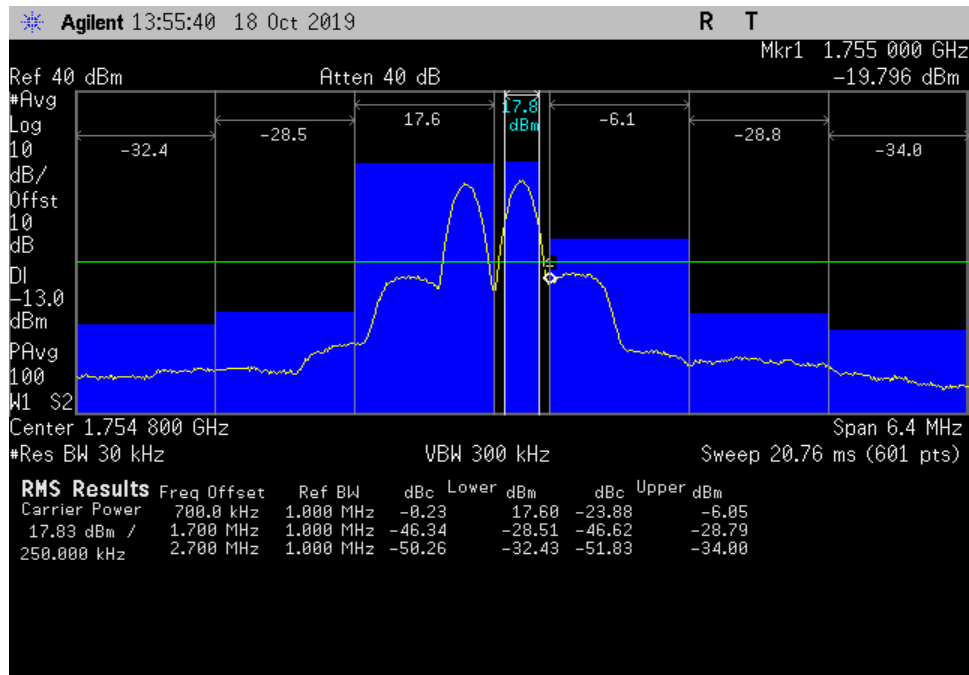
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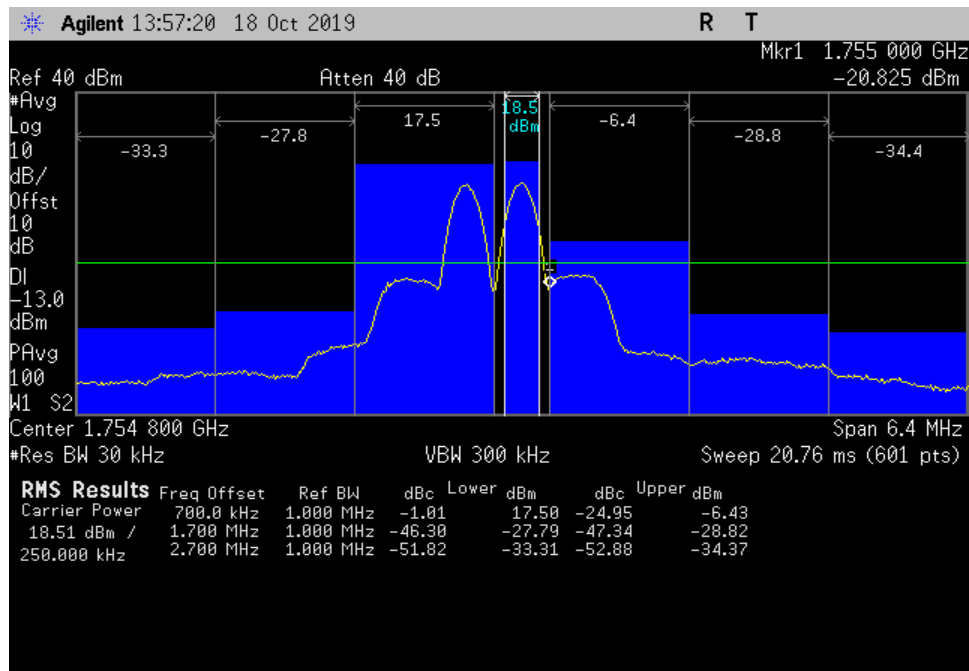
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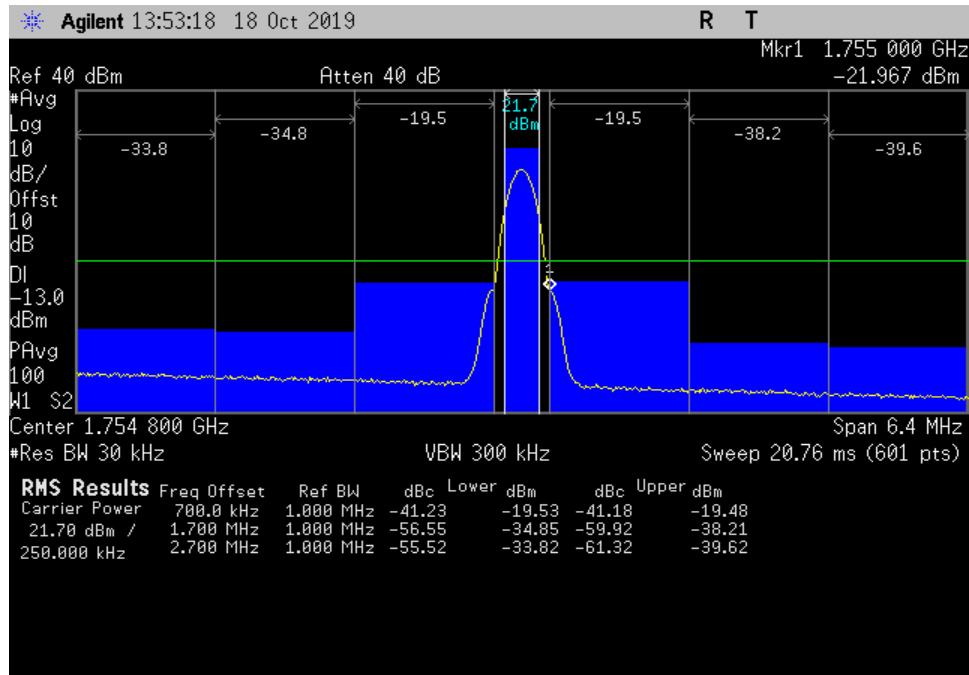
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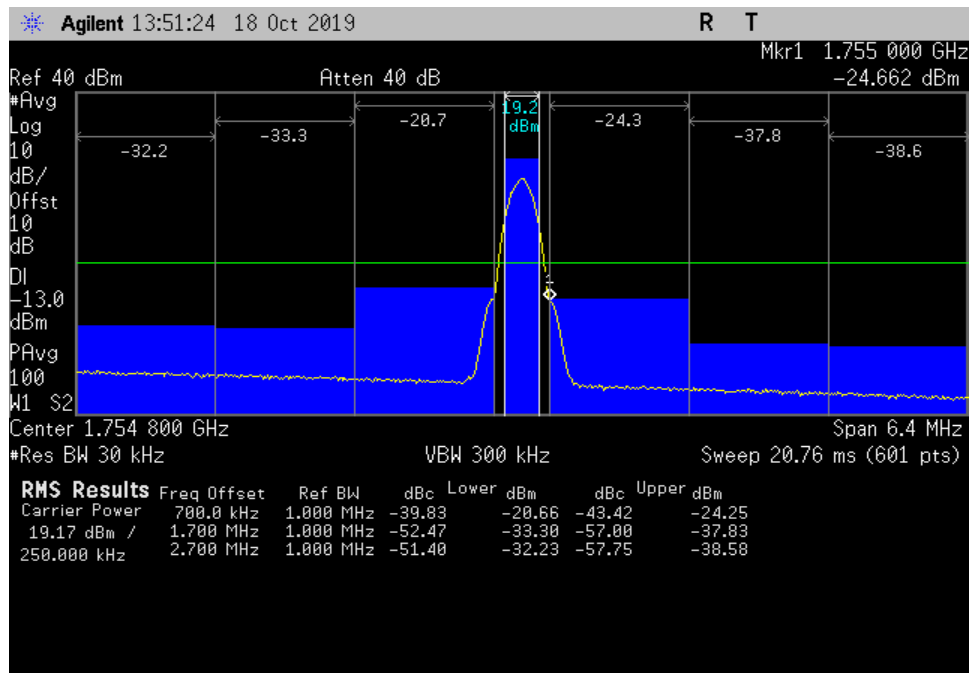
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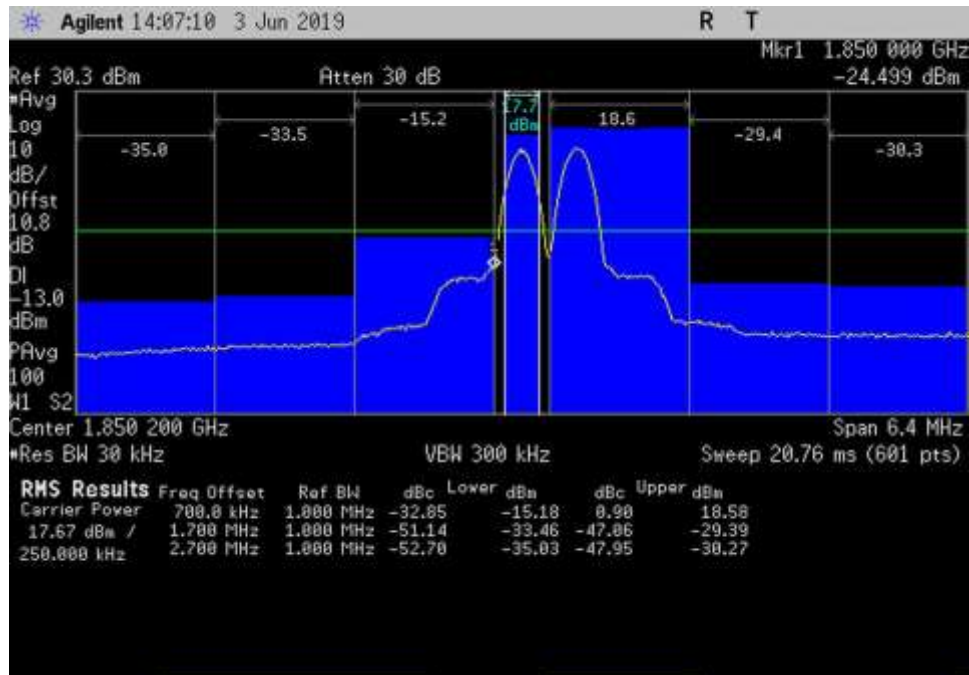
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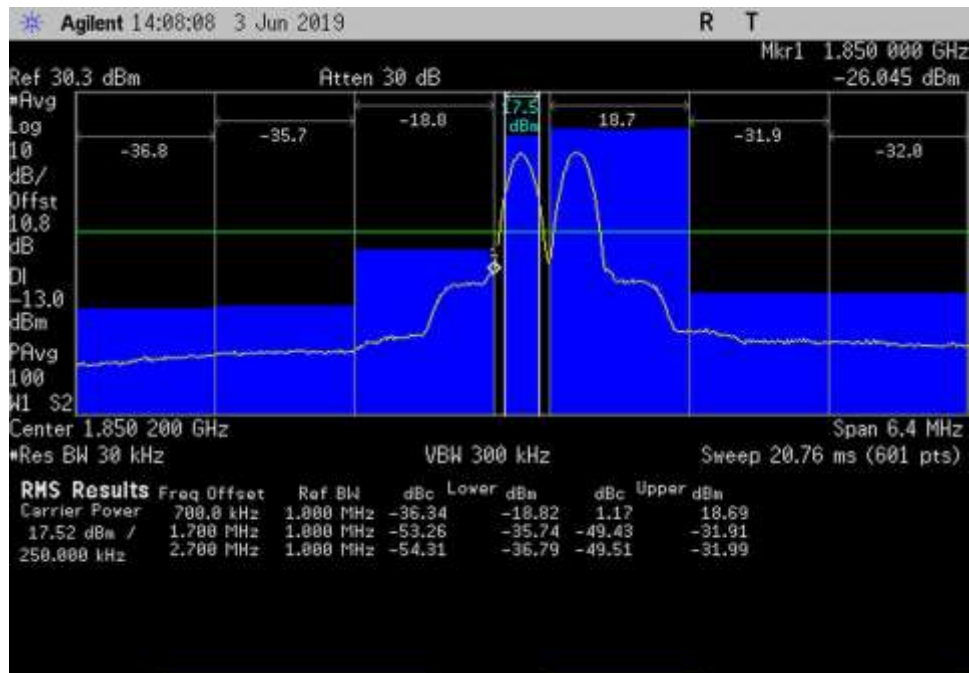
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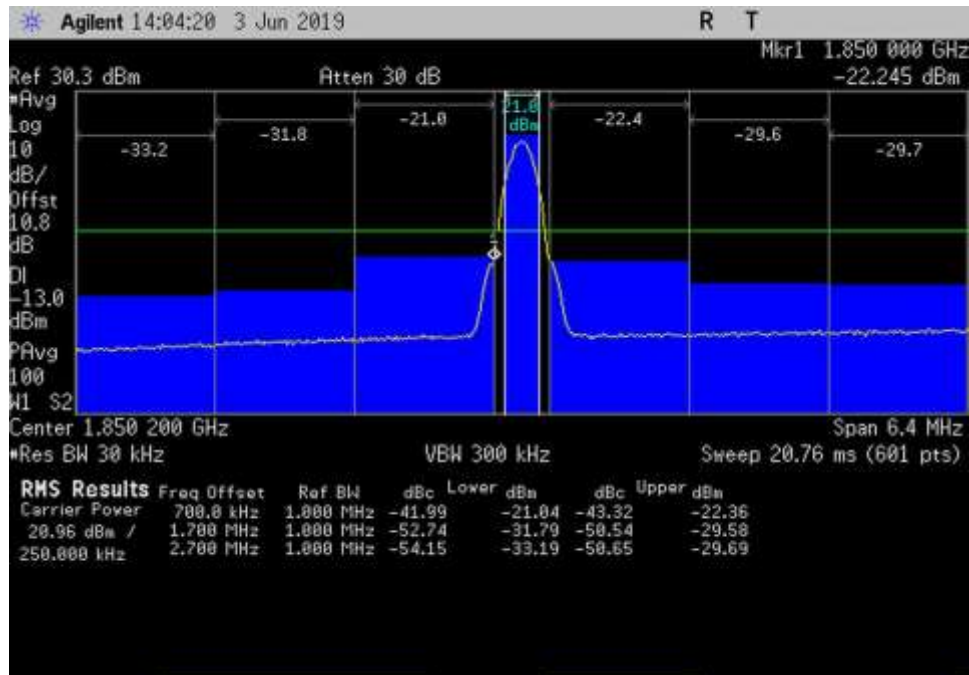
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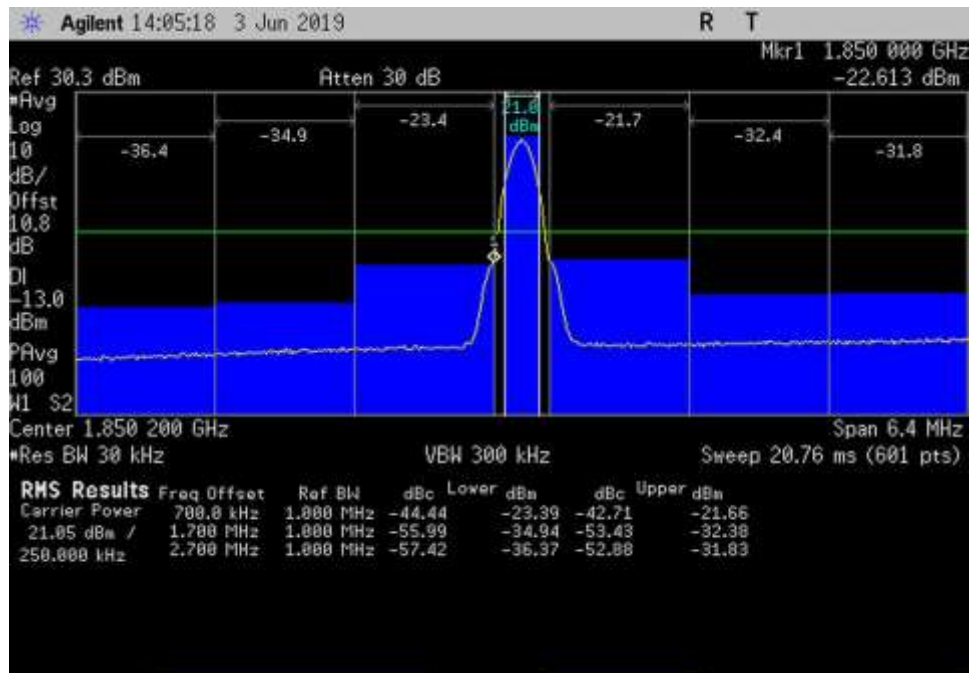
UL_1850-1915_GSM_1847-1850MHz_Cm-L



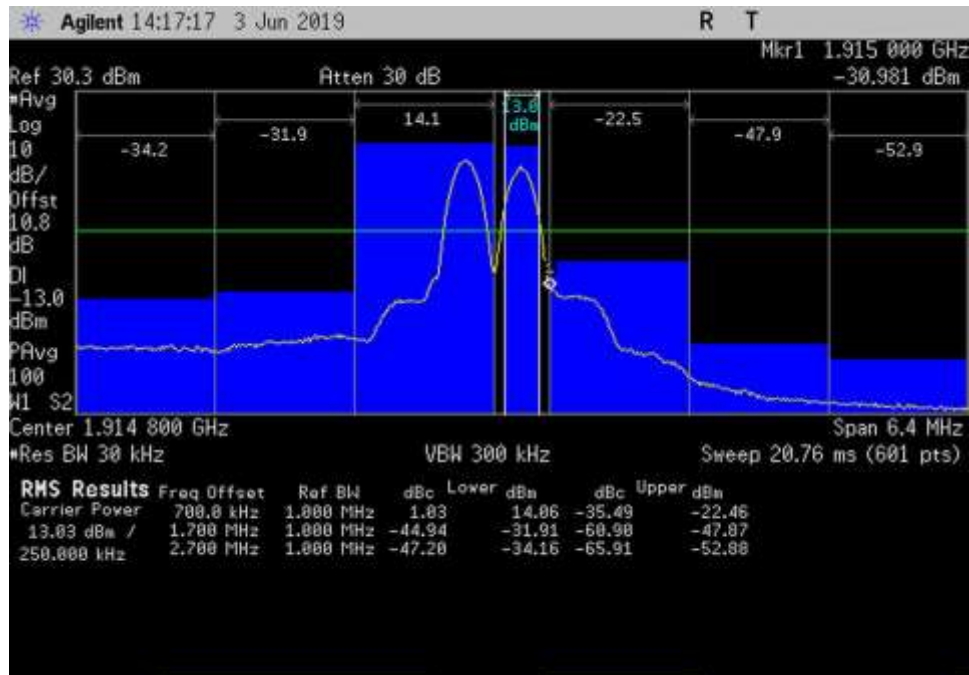
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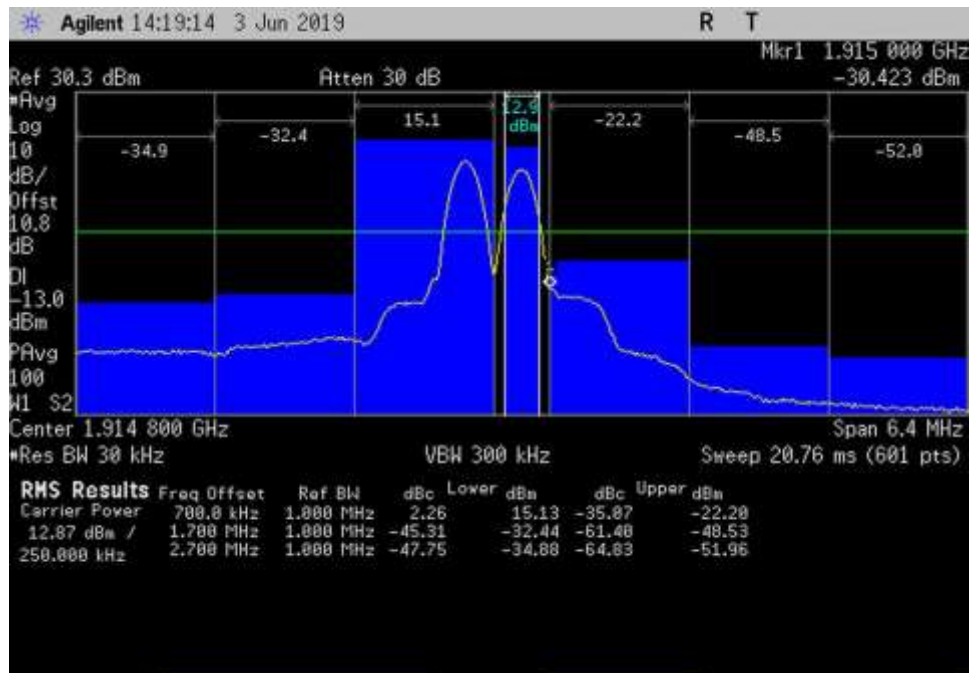
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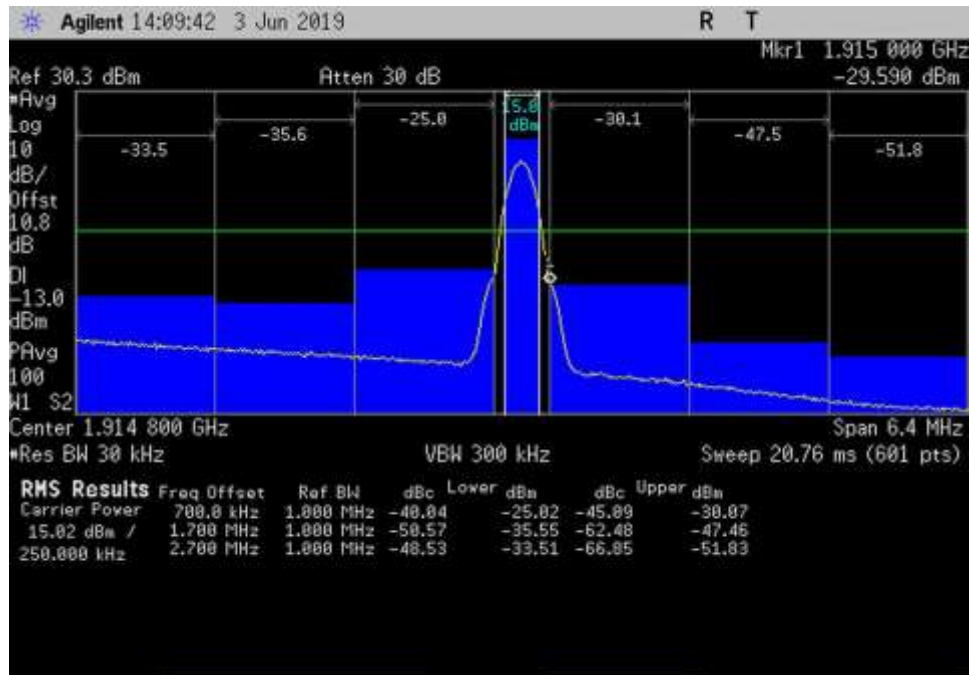
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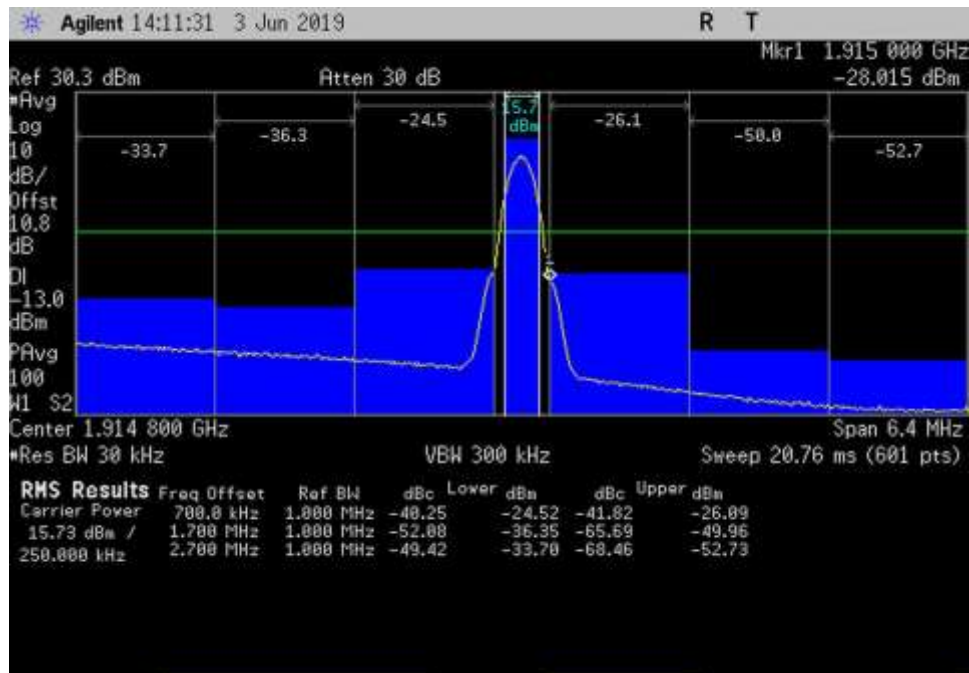
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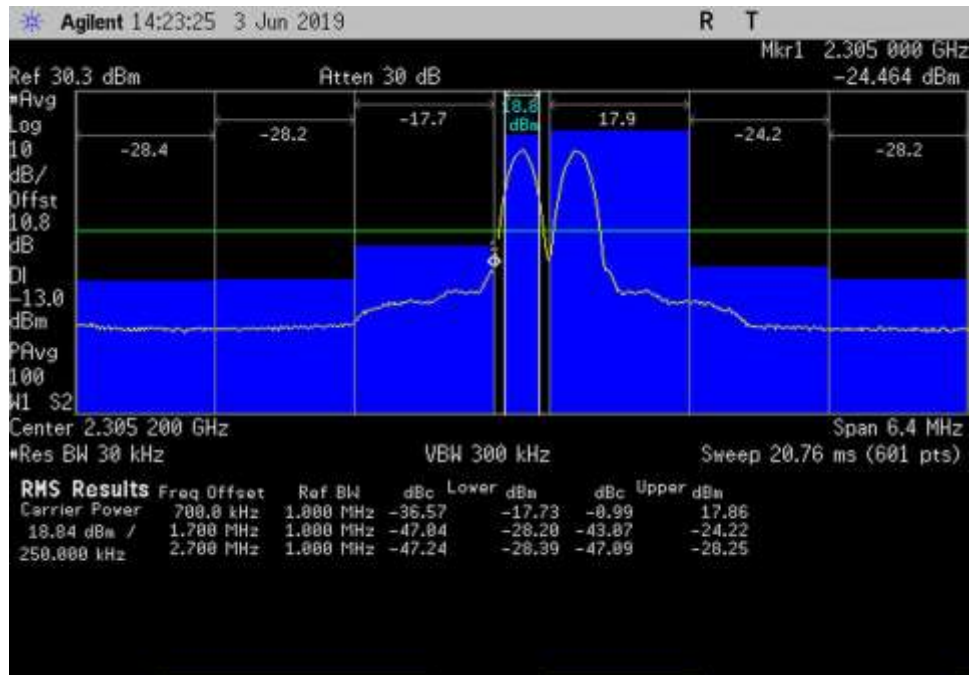
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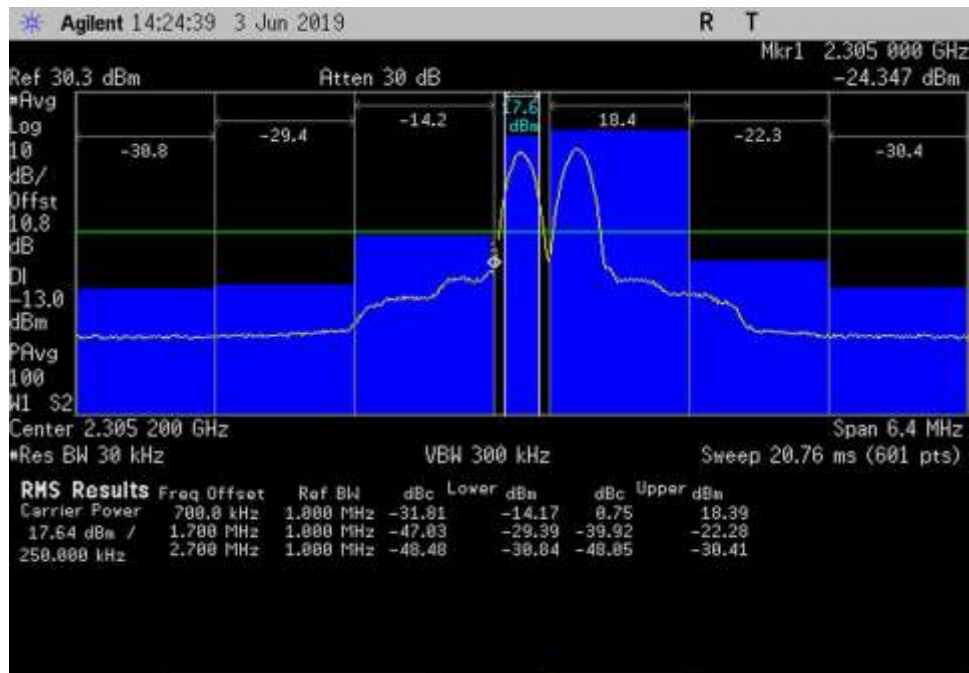
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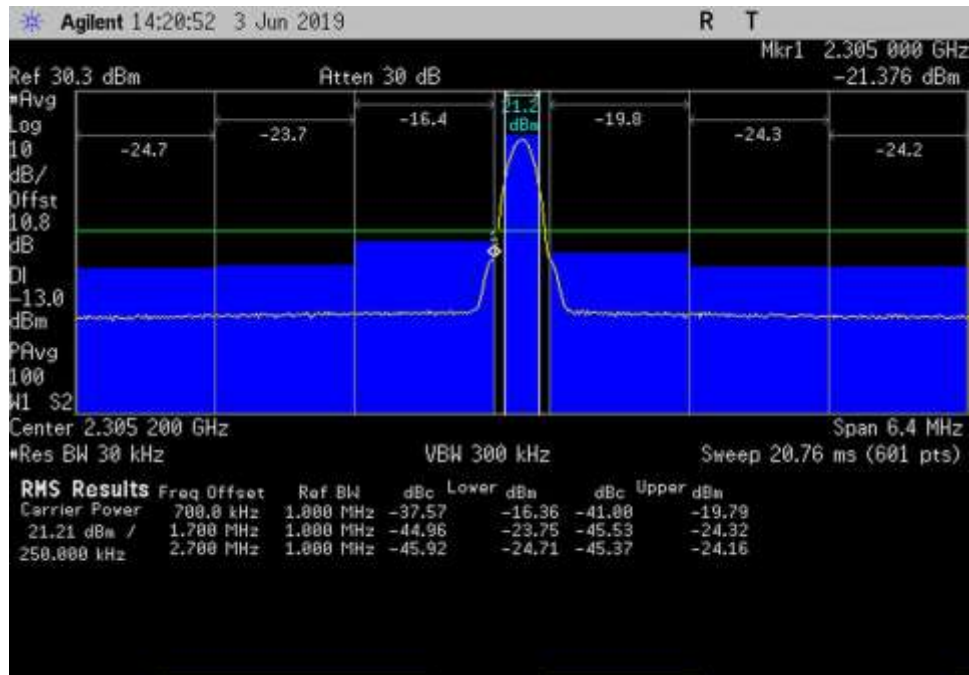
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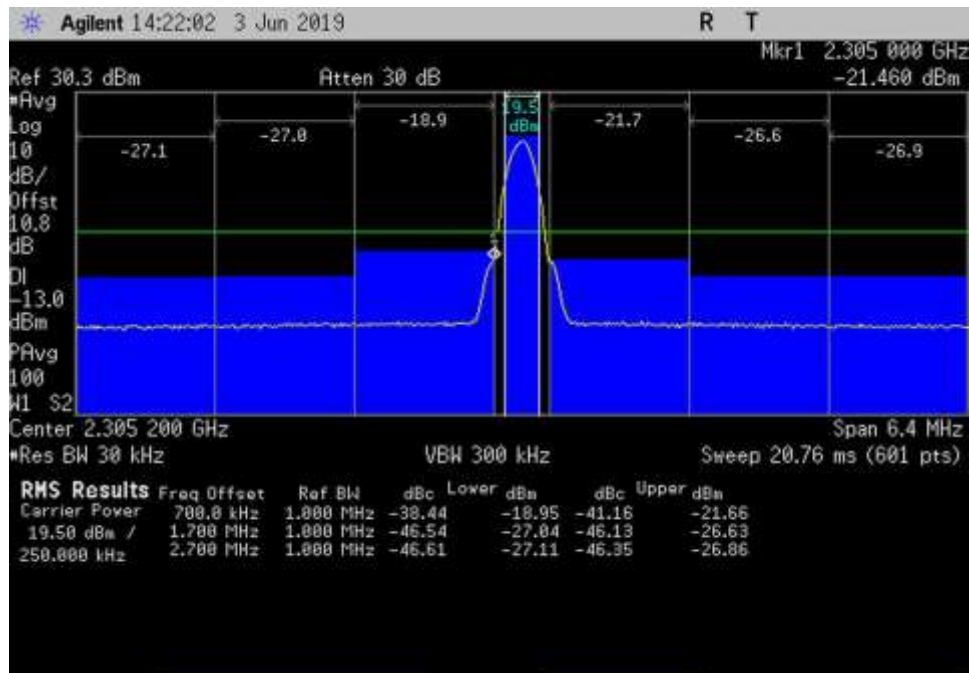
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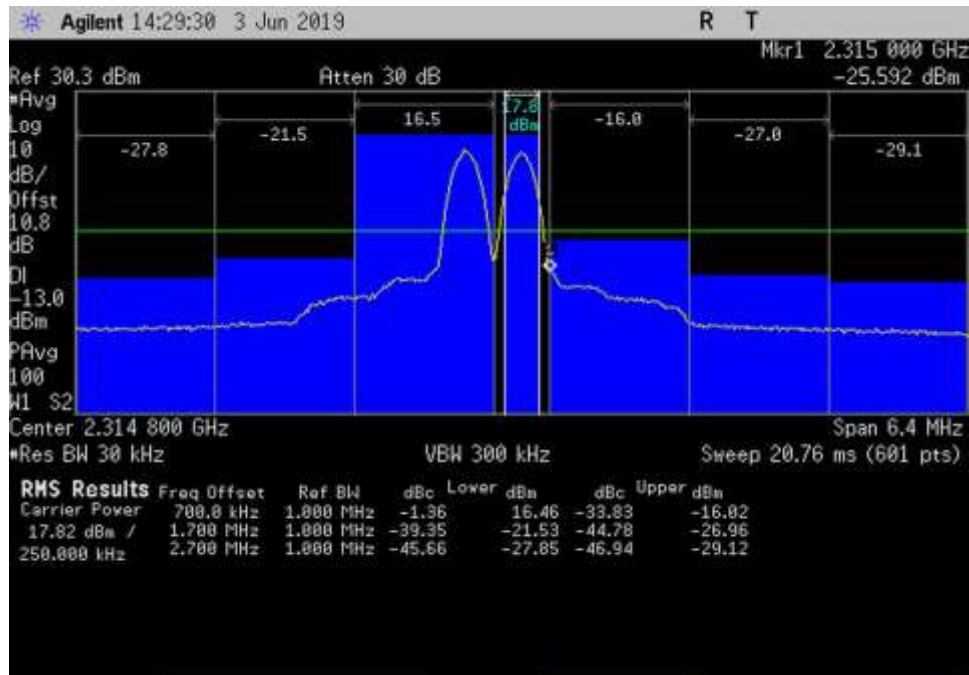
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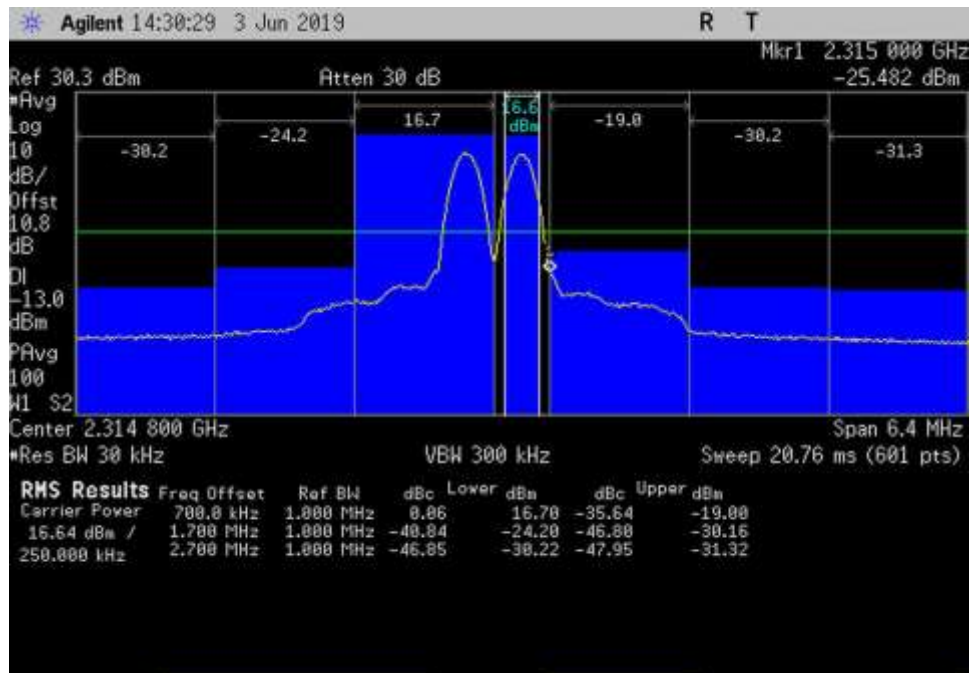
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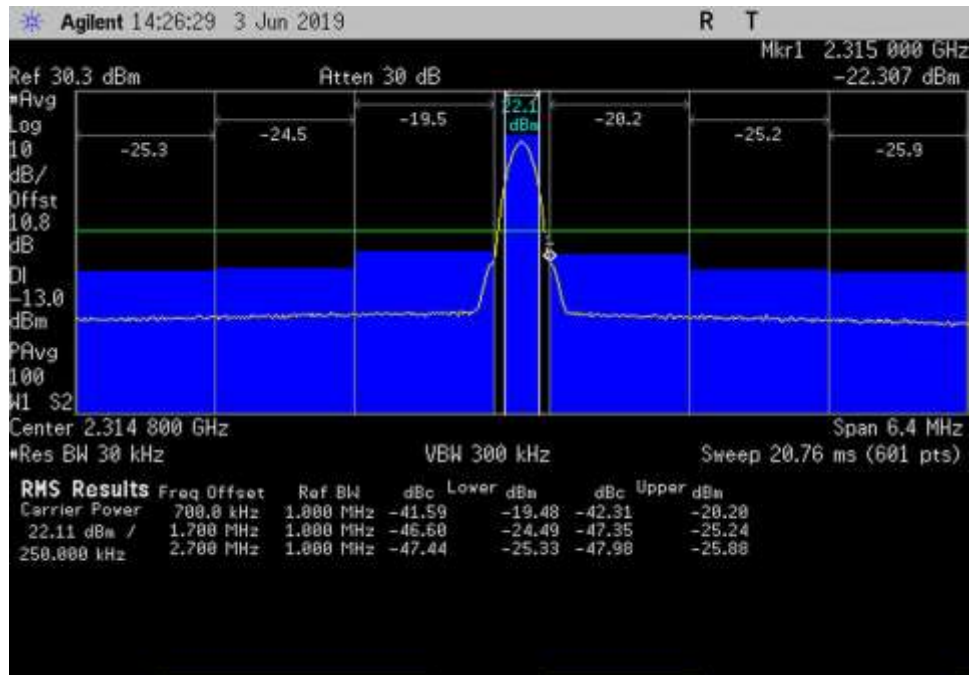
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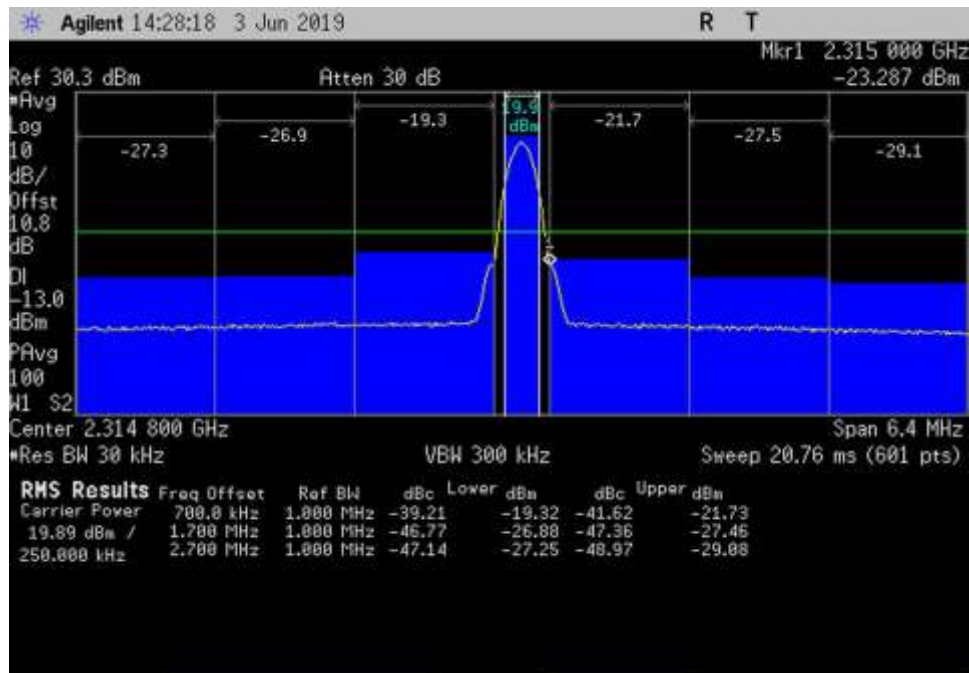
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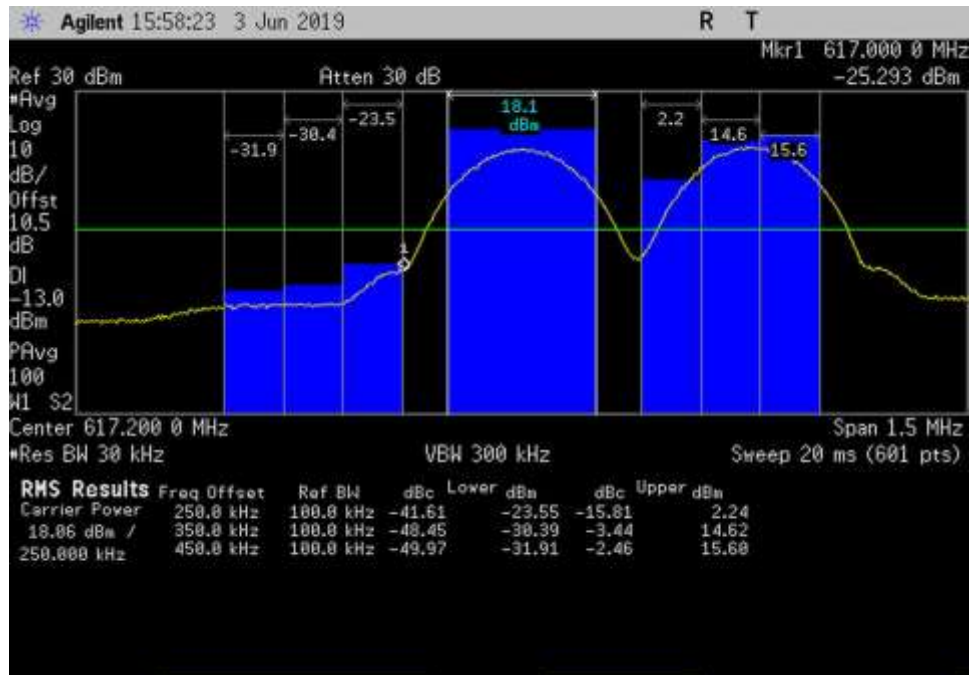
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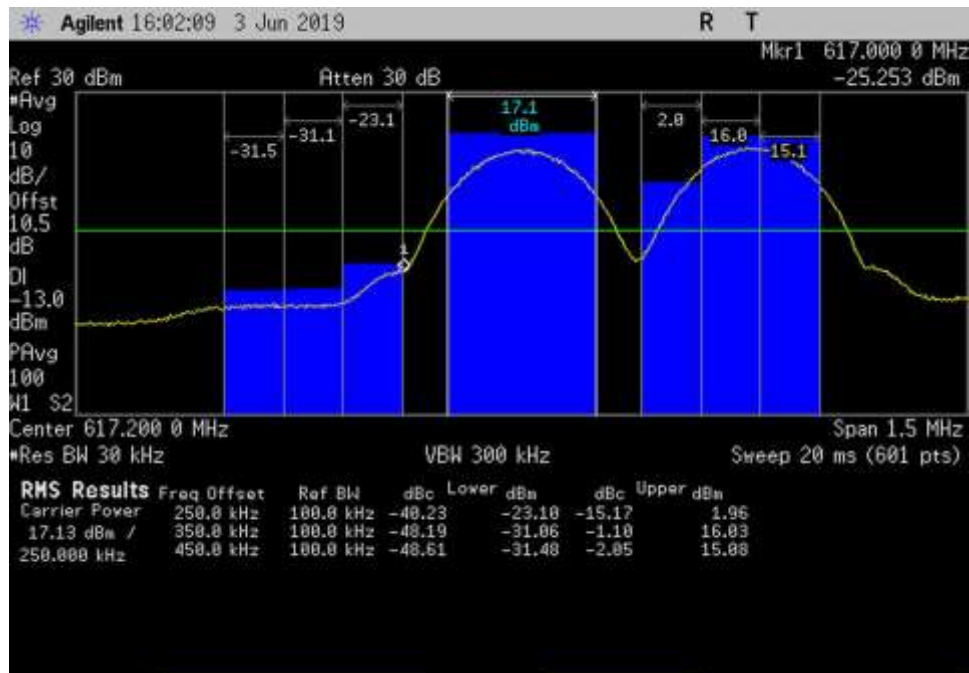
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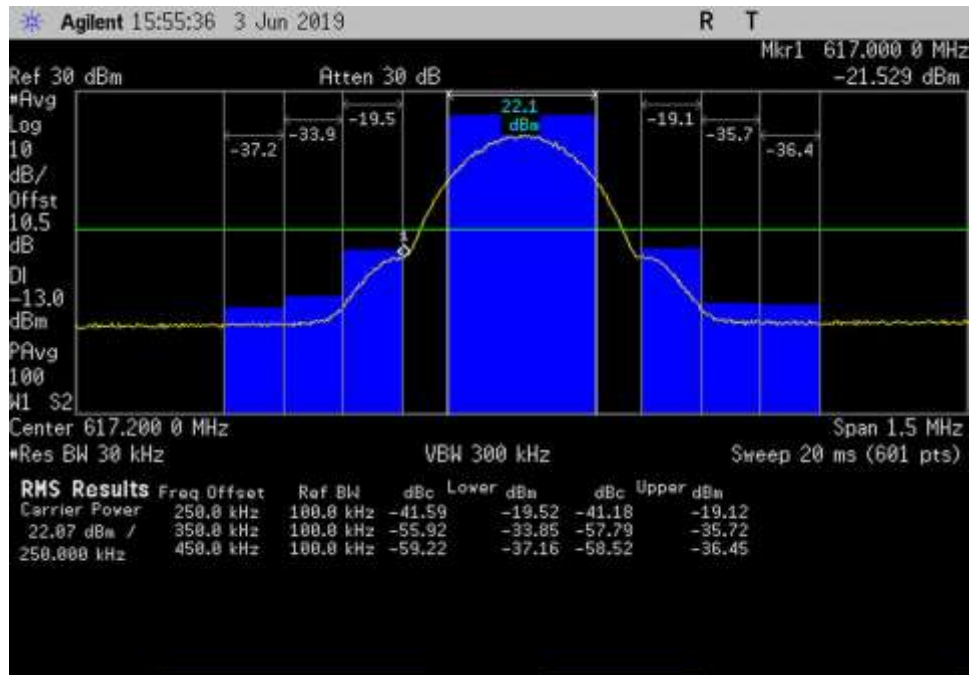
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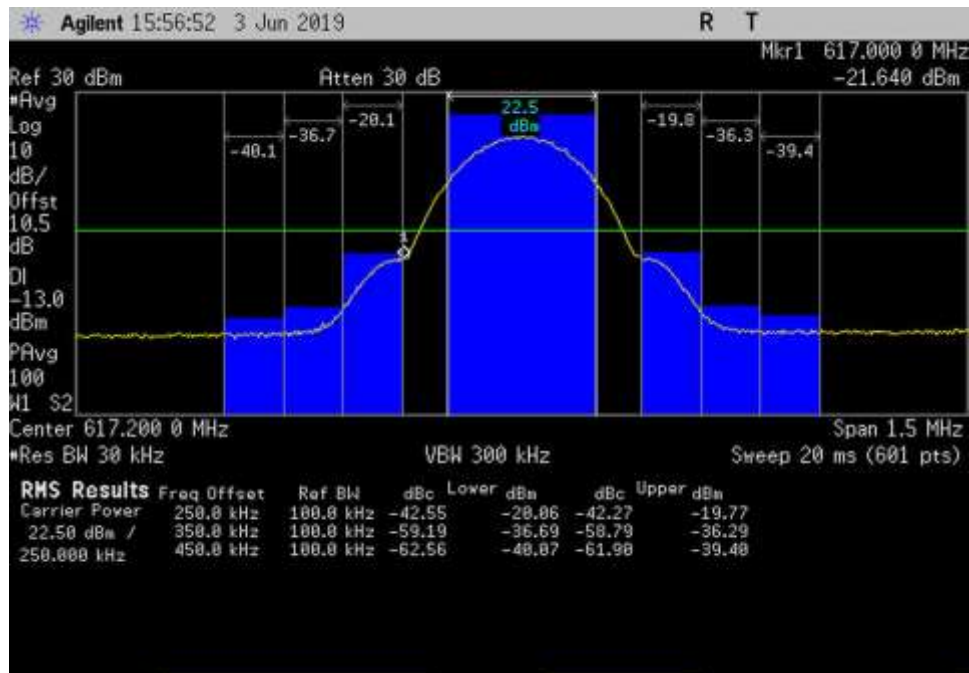
DL_617-652_GSM_ 616.7- 617MHz_Cm-L



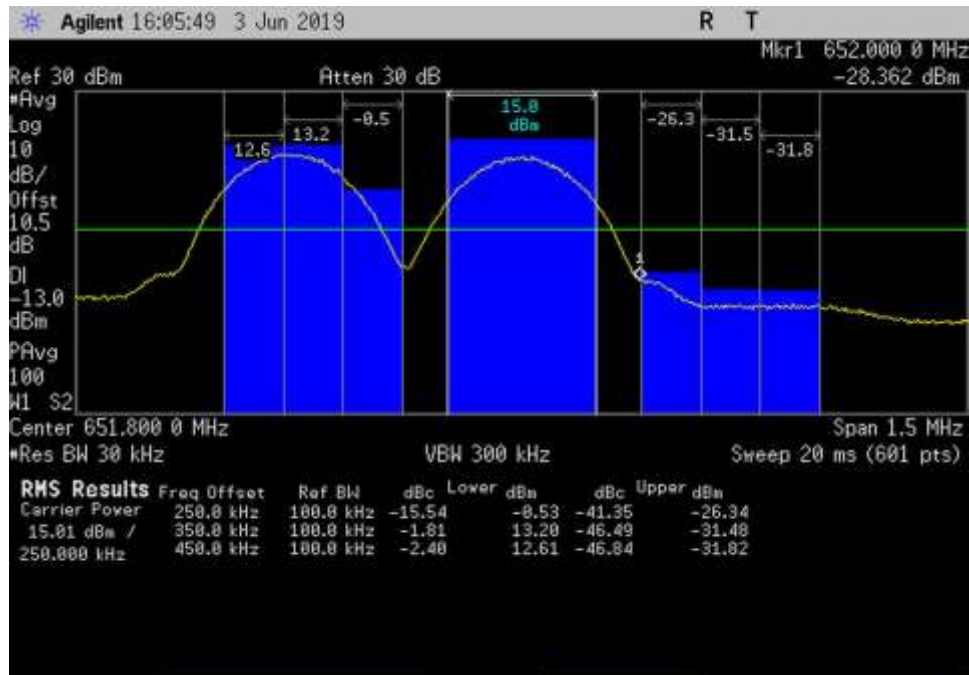
DL_617-652_GSM_ 616.7- 617MHz_Cm-L+3dB



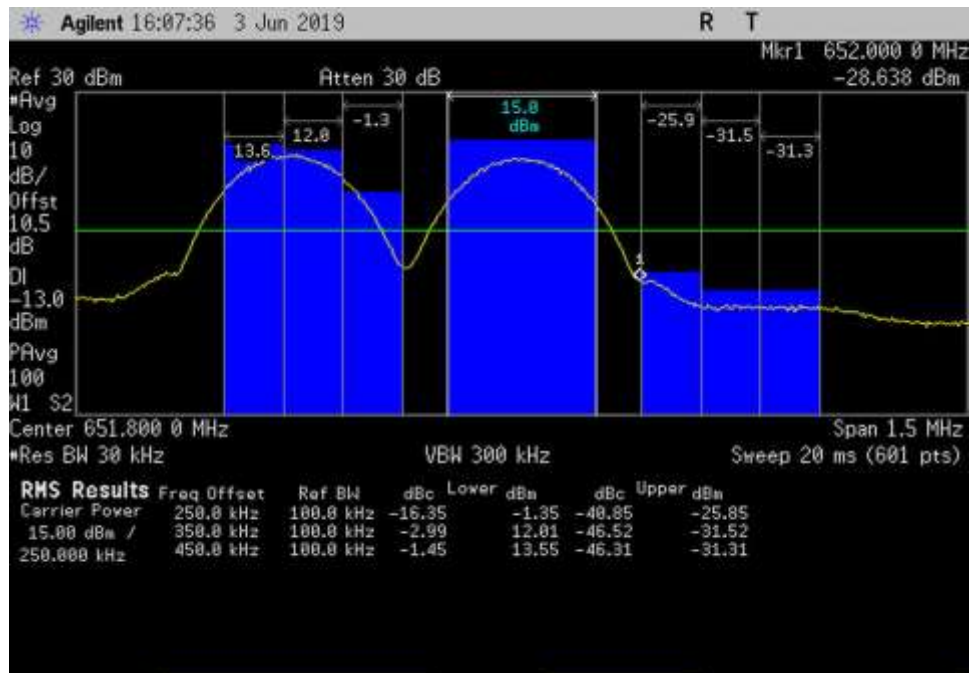
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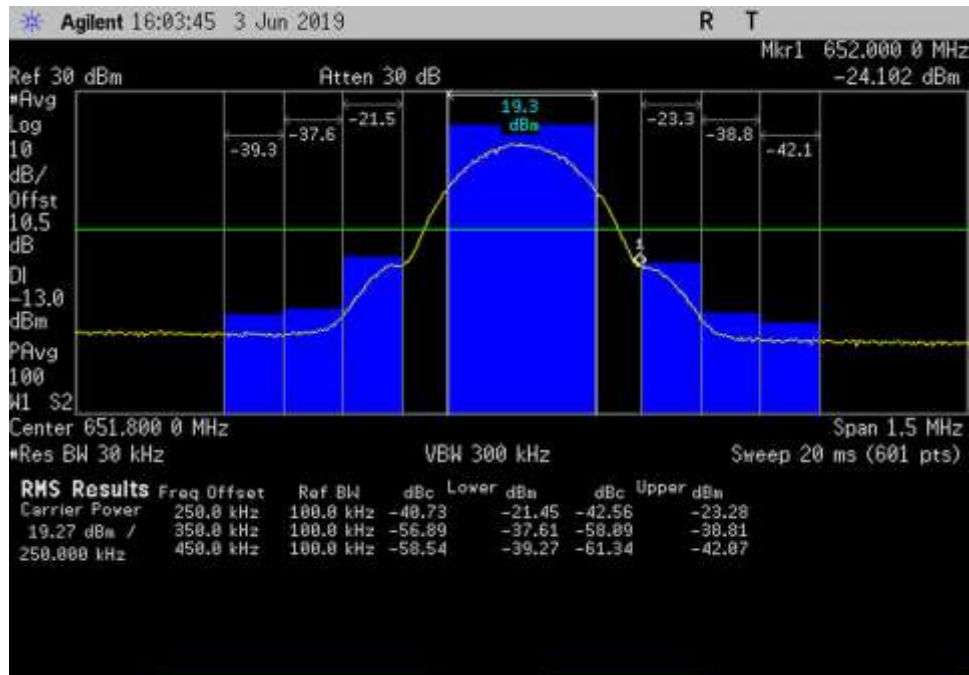
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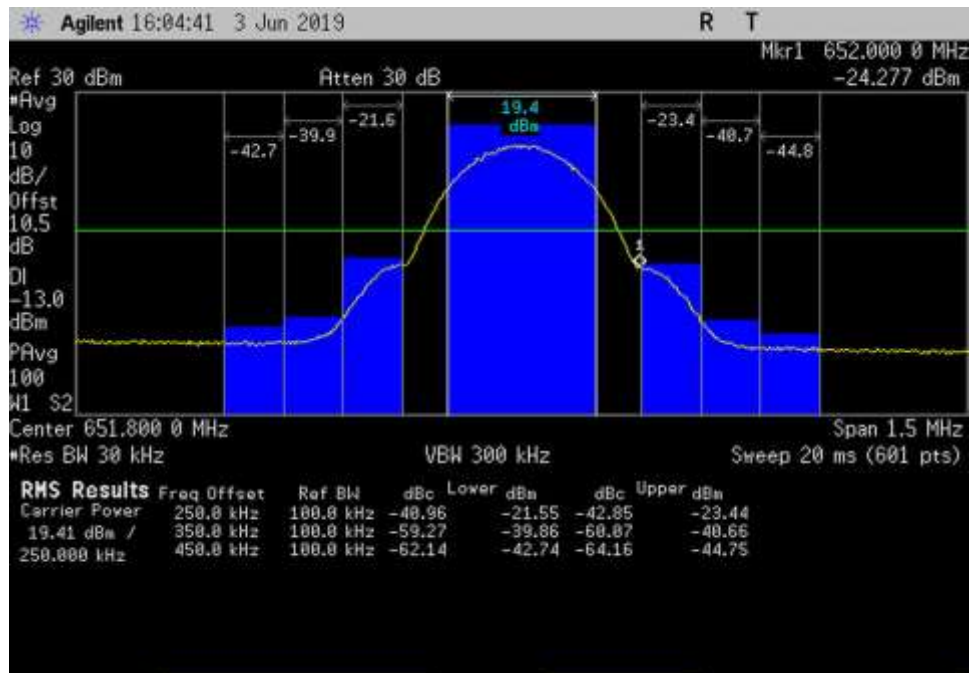
DL_617-652_GSM_ 652- 652.3MHz_Cm-H



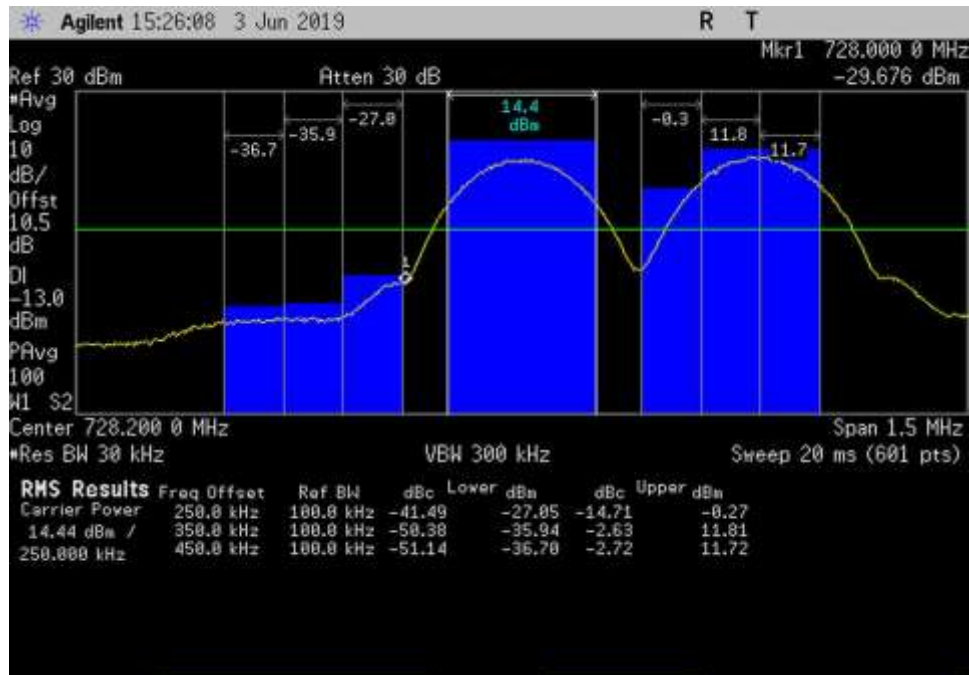
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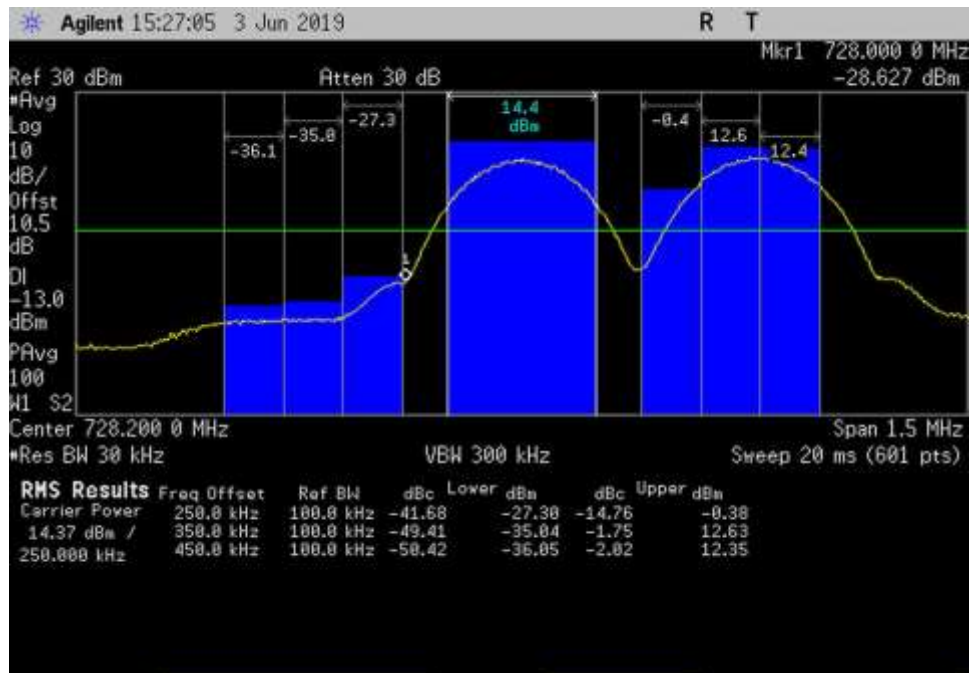
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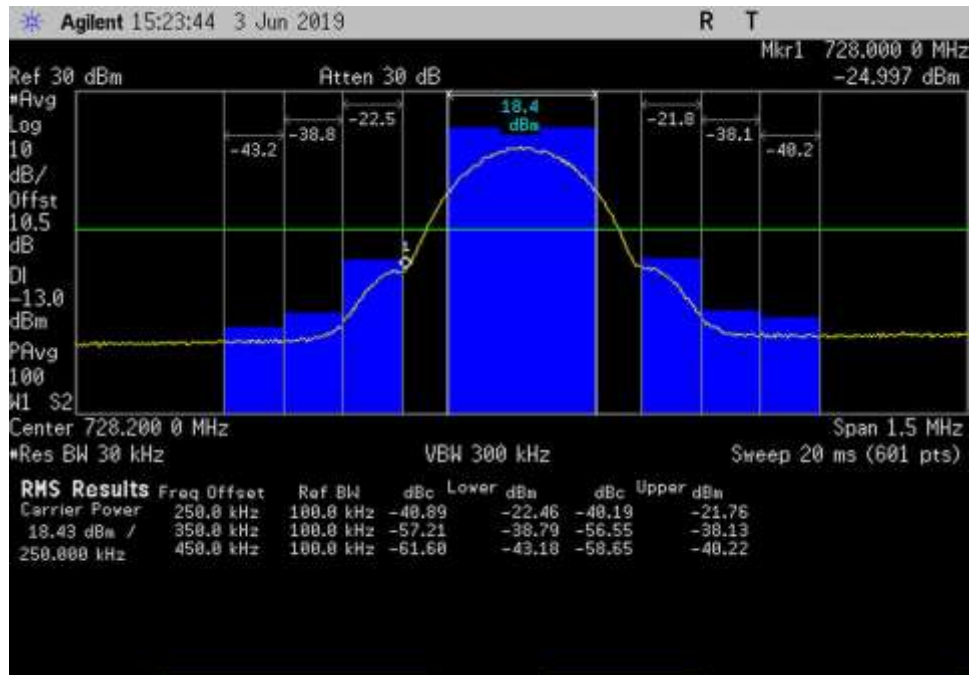
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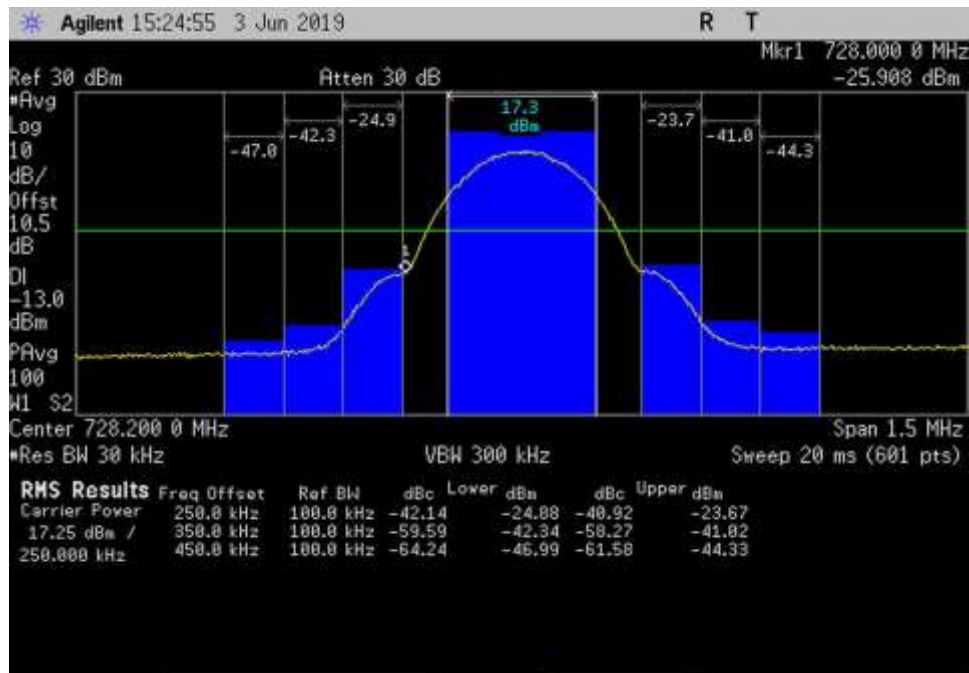
DL_728-746_GSM_ 727.7- 728MHz_Cm-L



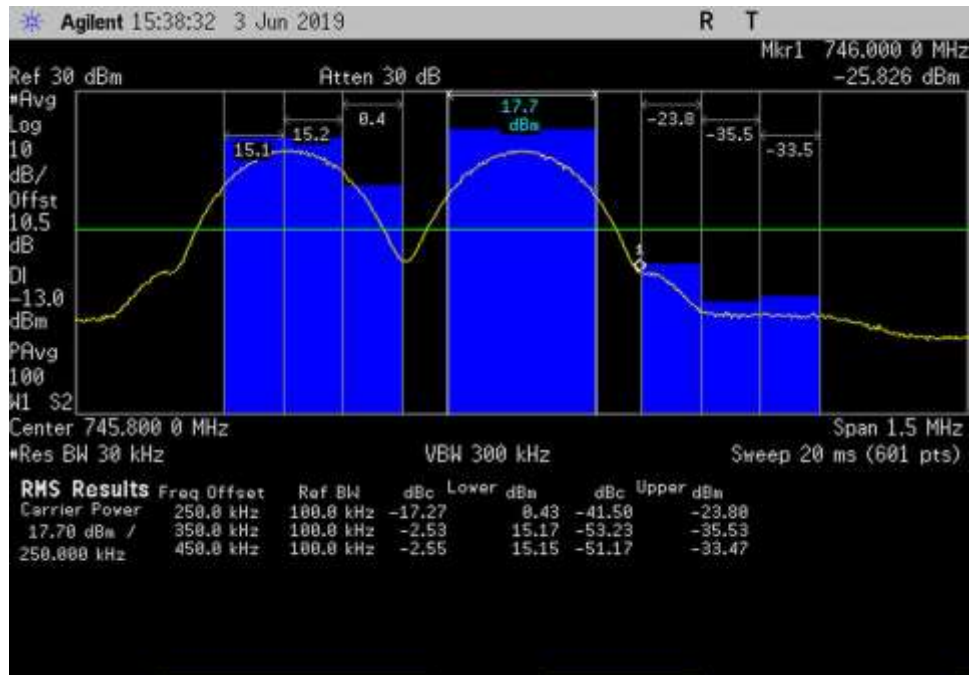
DL_728-746_GSM_ 727.7- 728MHz_Cm-L+3dB



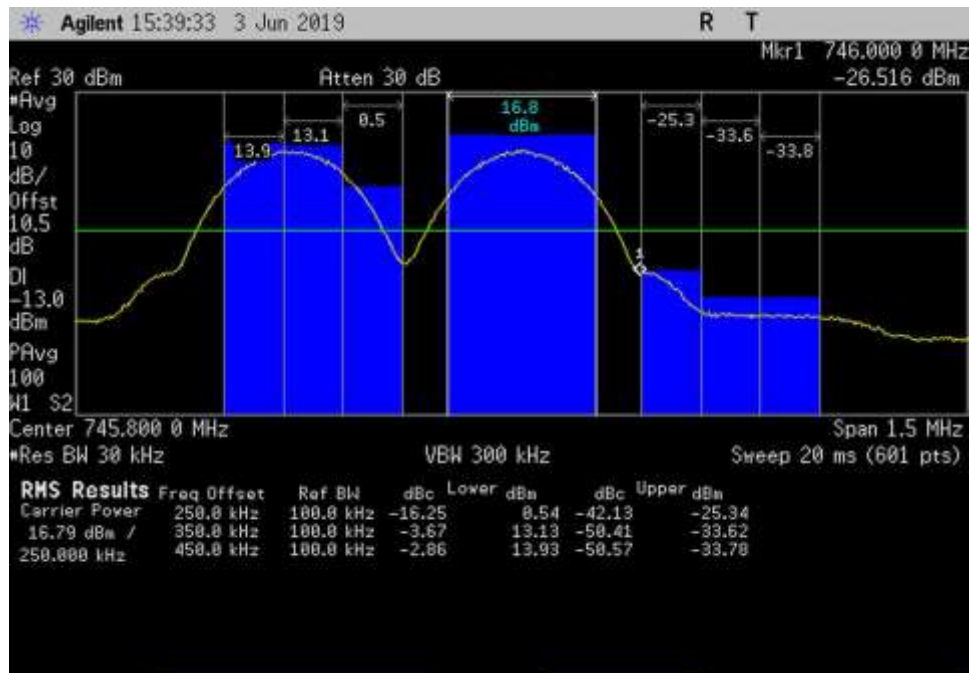
DL_728-746_GSM_727.7-728MHz_Sn-L



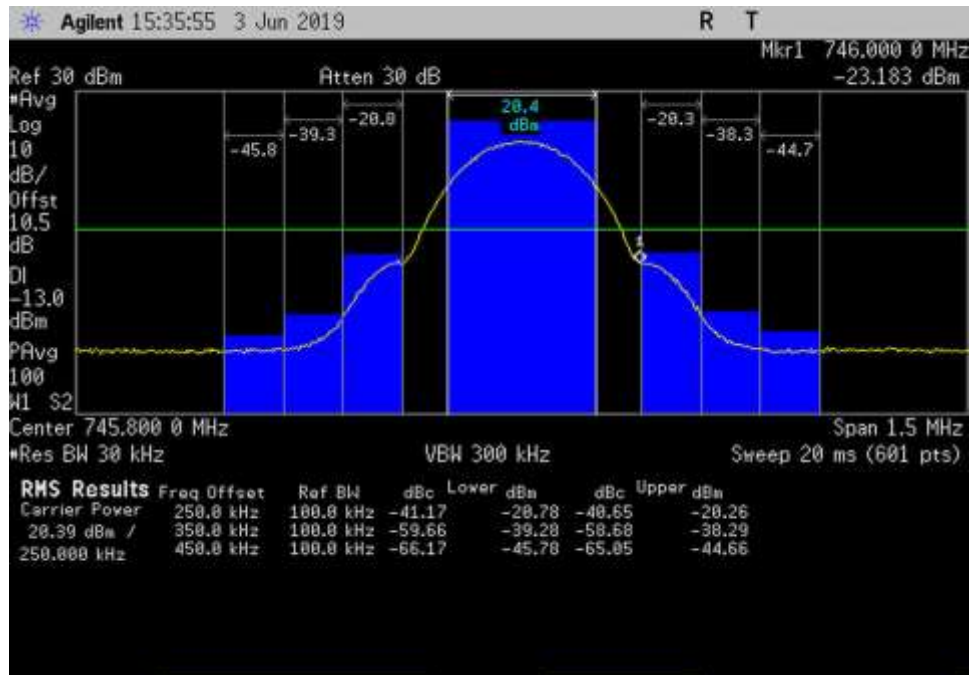
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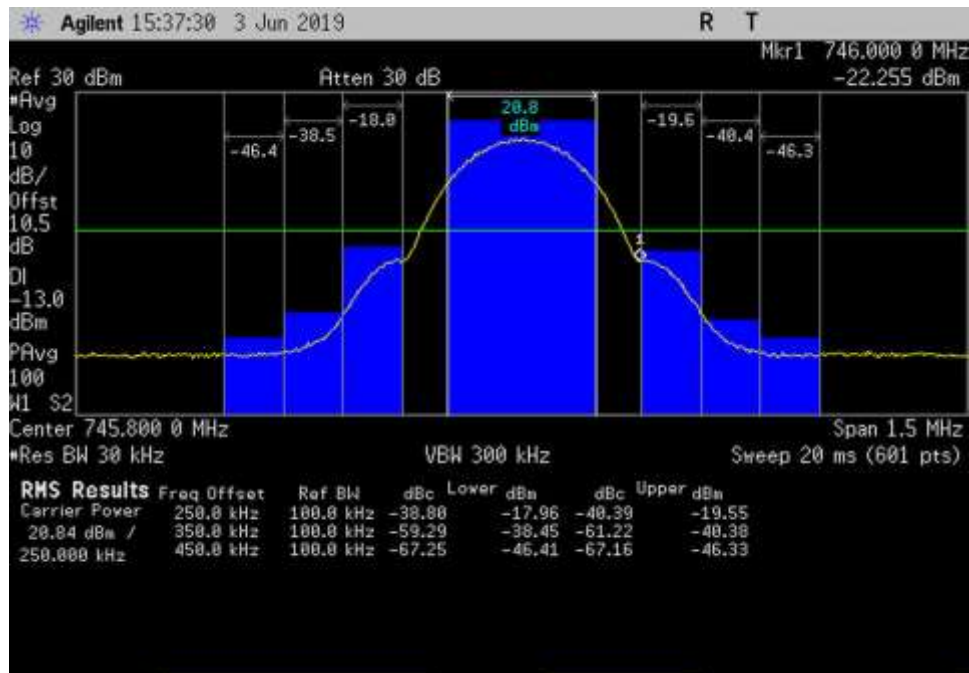
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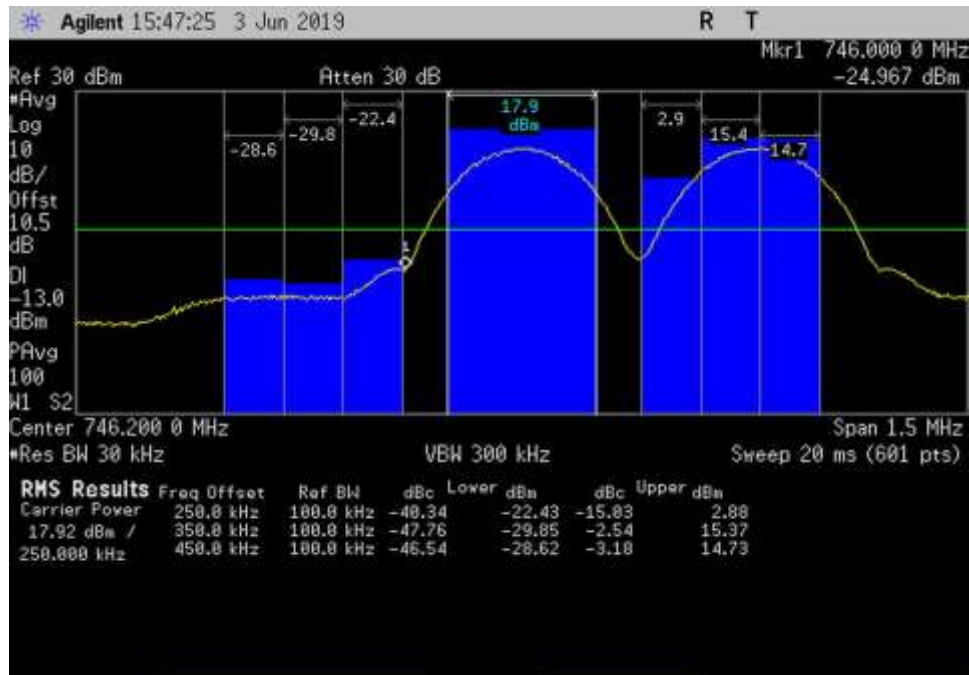
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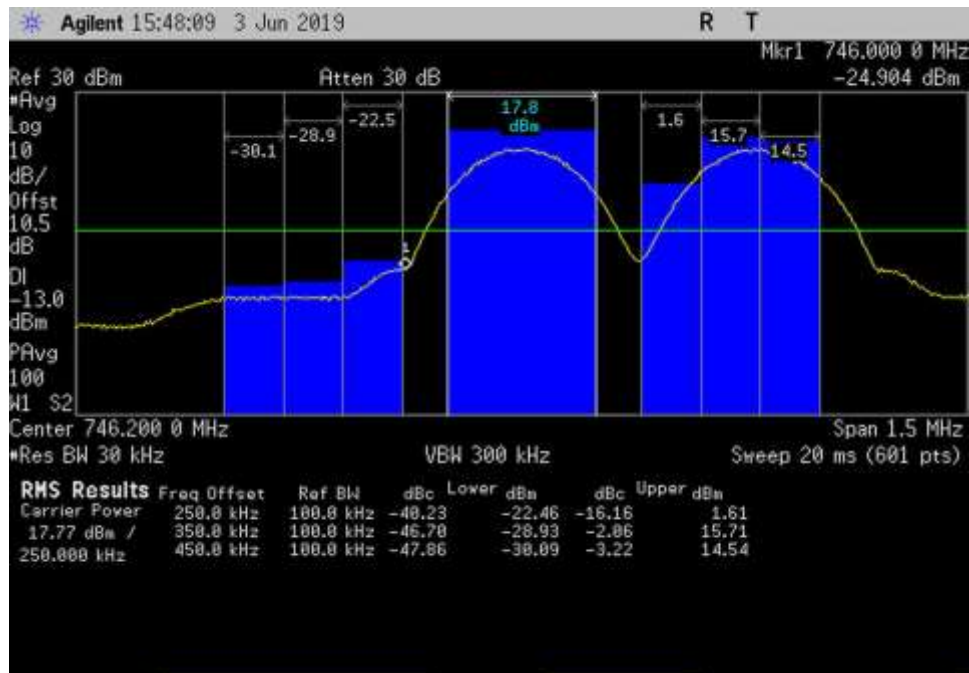
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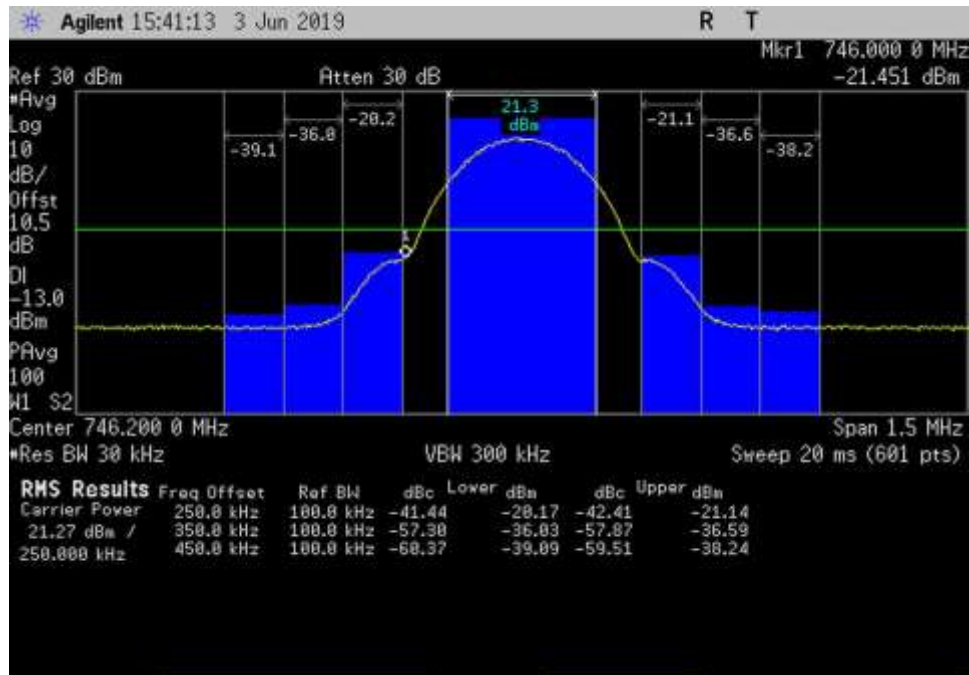
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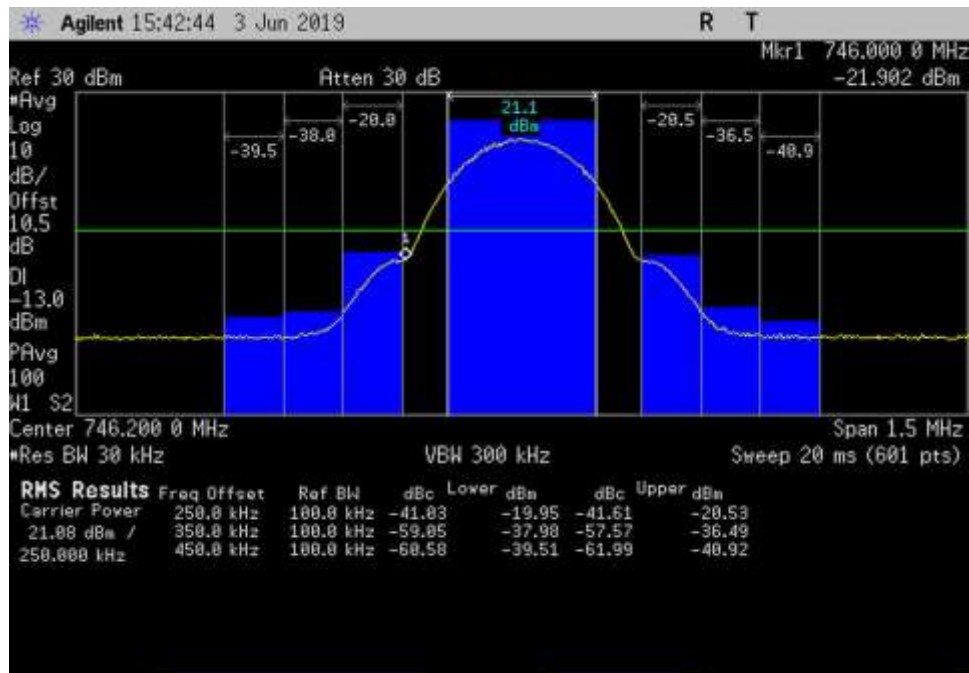
DL_746-757_GSM_ 745.7- 746MHz_Cm-L



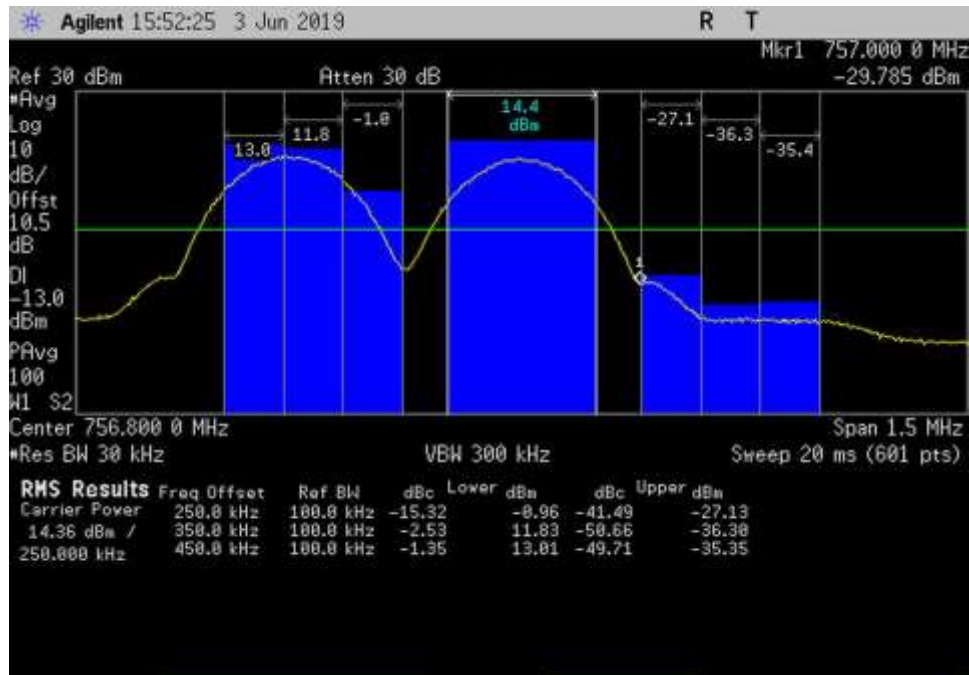
DL_746-757_GSM_ 745.7- 746MHz_Cm-L+3dB



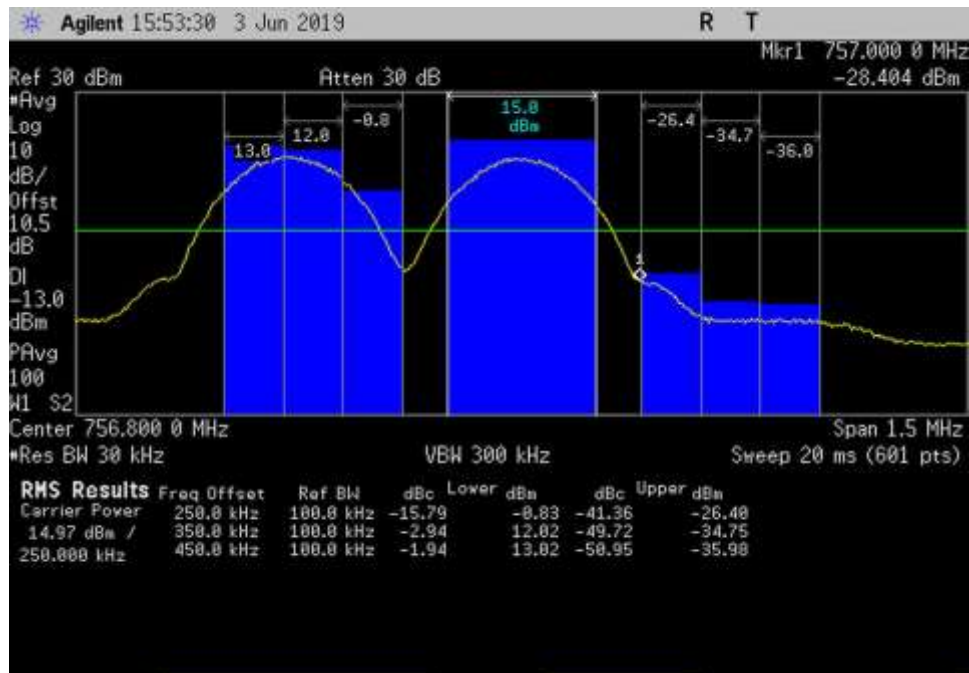
DL_746-757_GSM_745.7-746MHz_Sn-L



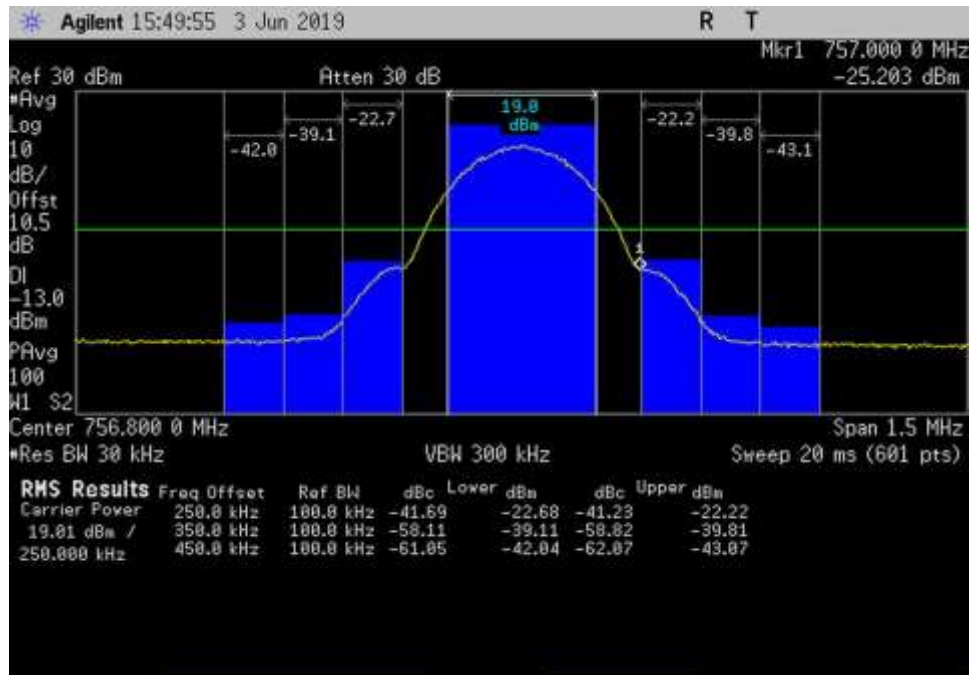
DL_746-757_GSM_745.7-746MHz_Sn-L+3dB



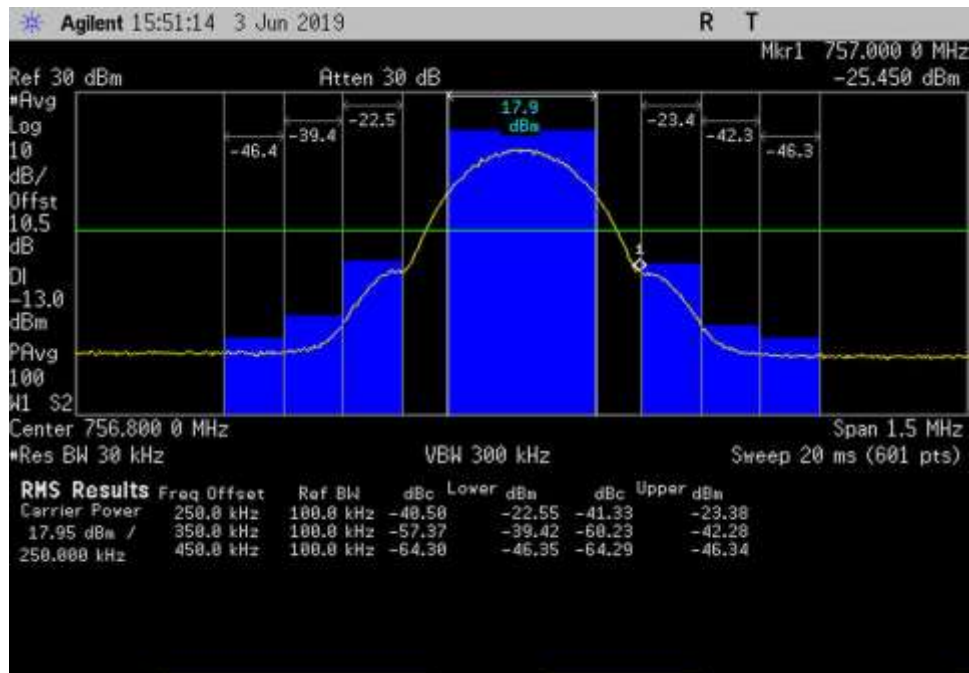
DL_746-757_GSM_ 757- 757.3MHz_Cm-H



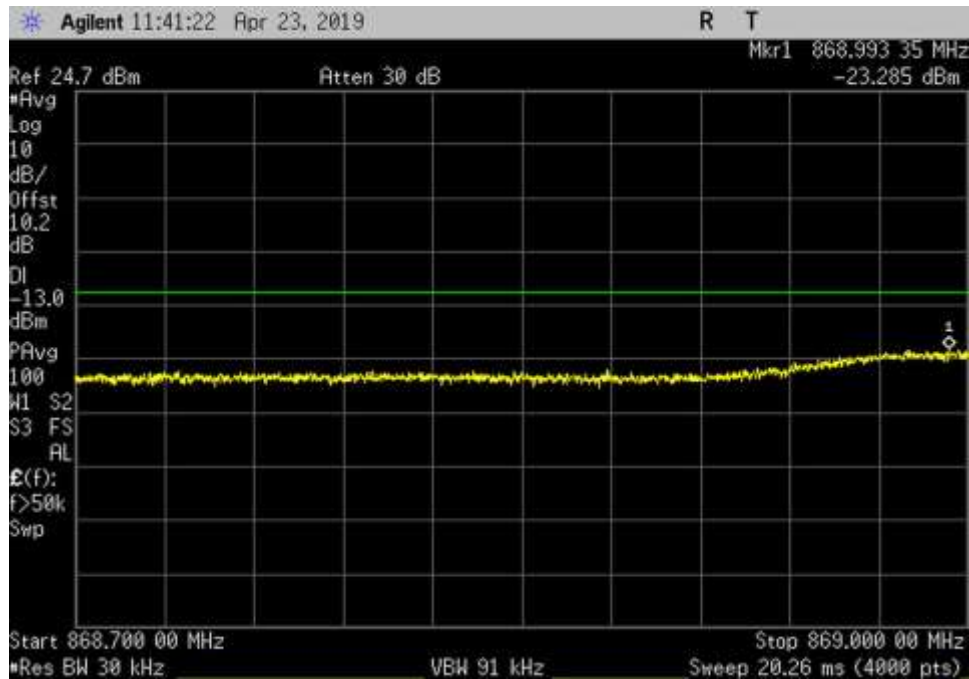
DL_746-757_GSM_ 757- 757.3MHz_Cm-H+3dB



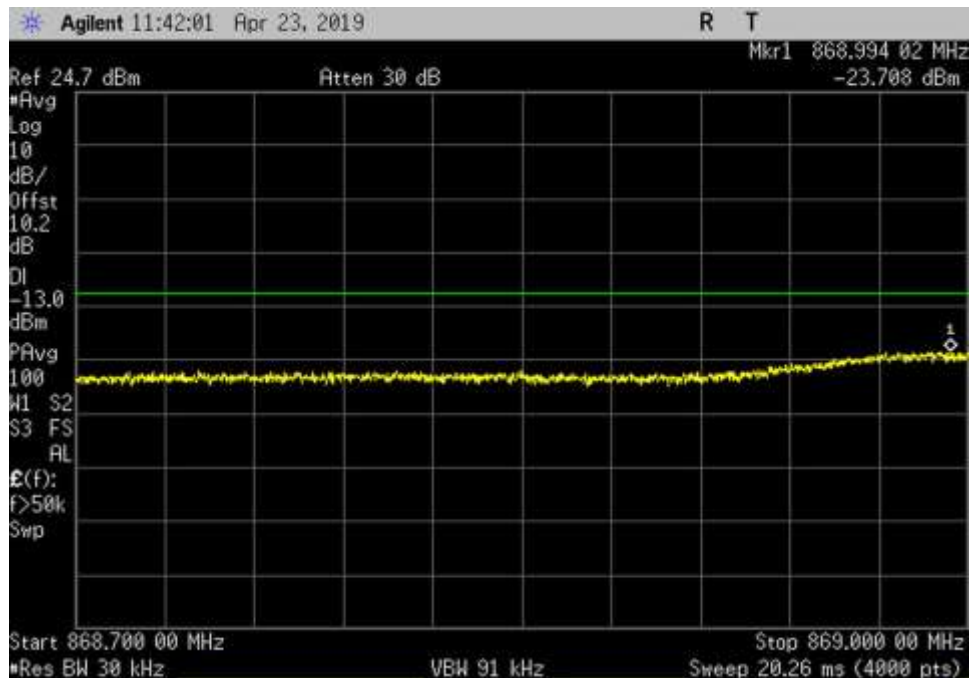
DL_746-757_GSM_757-757.3MHz_Sn-H



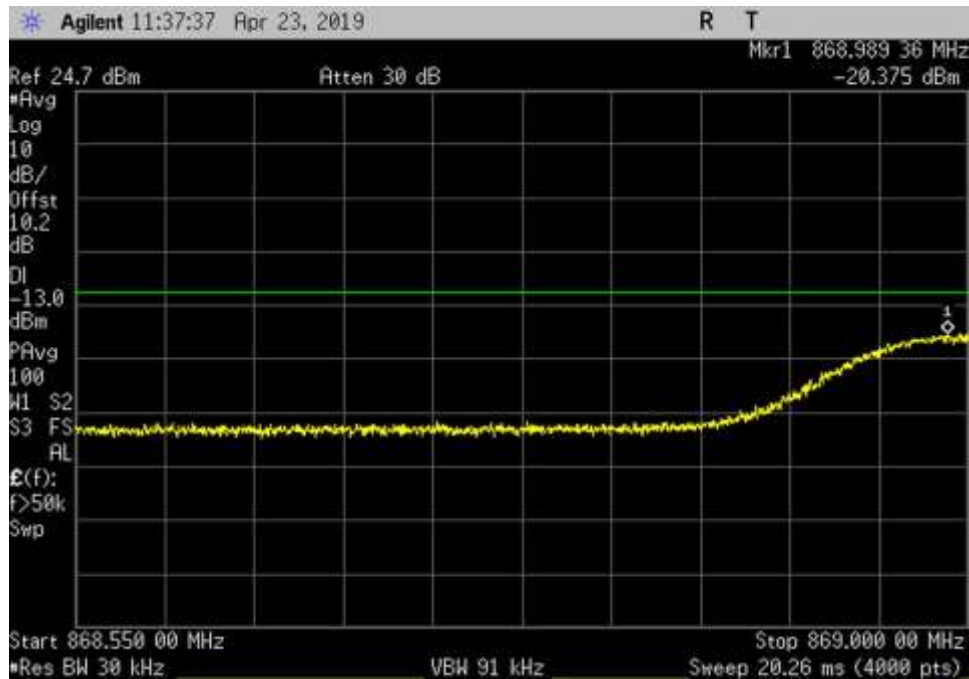
DL_746-757_GSM_757-757.3MHz_Sn-H+3dB



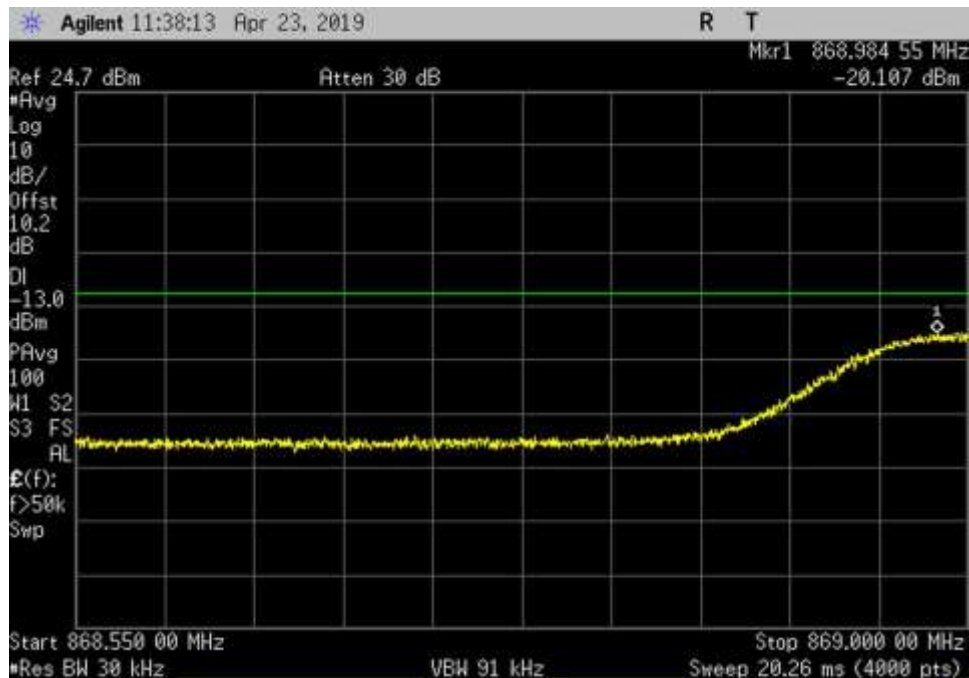
DL_869-894_GSM_ 868.7- 869MHz_Cm-L



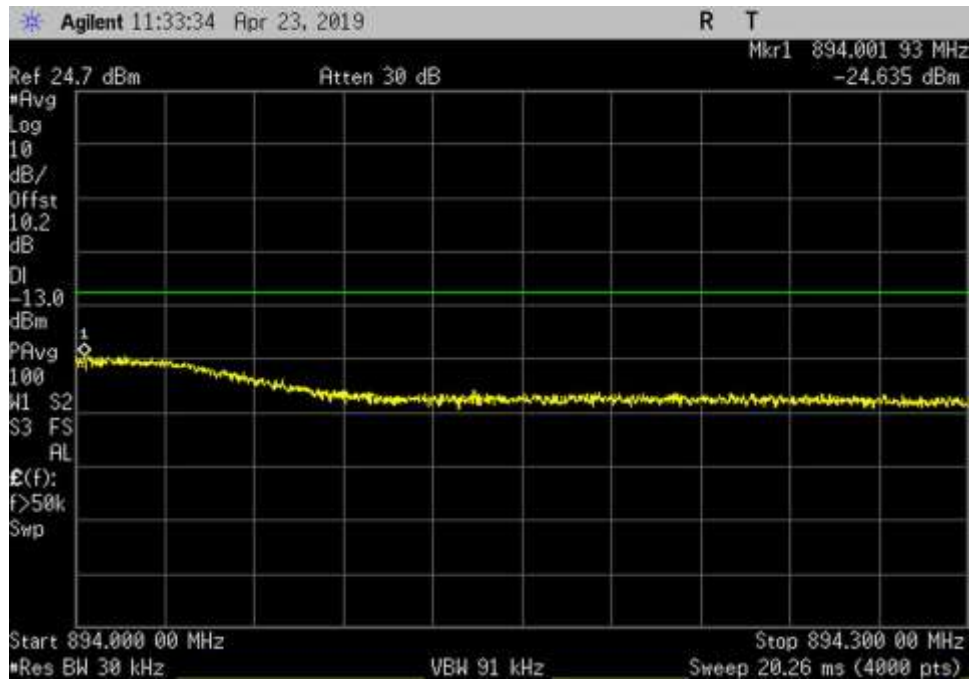
DL_869-894_GSM_ 868.7- 869MHz_Cm-L+3dB



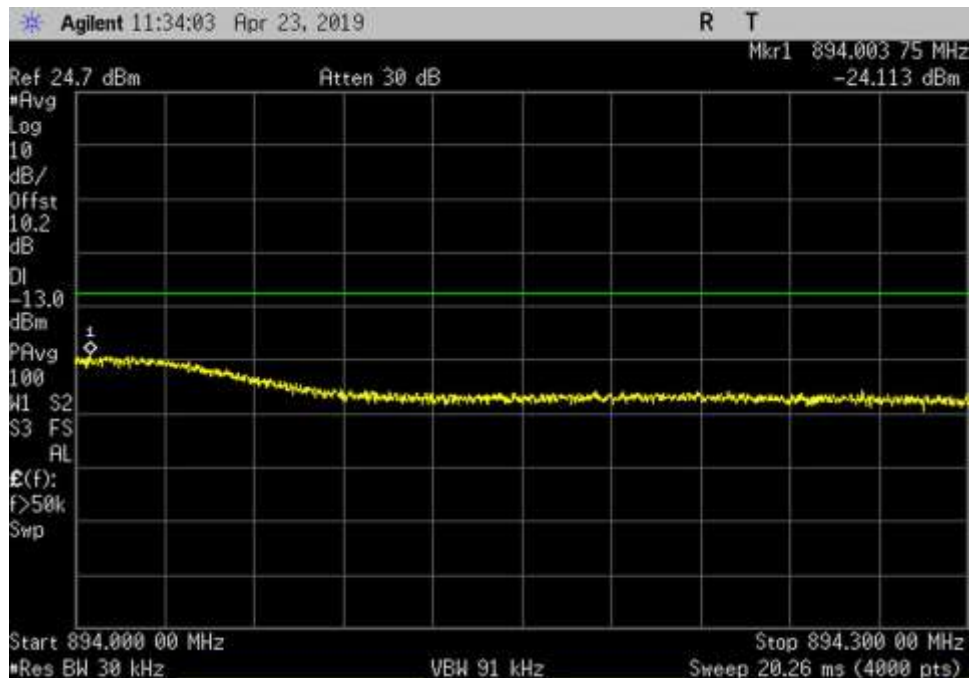
DL_869-894_GSM_ 868.55- 869MHz_Sn-L



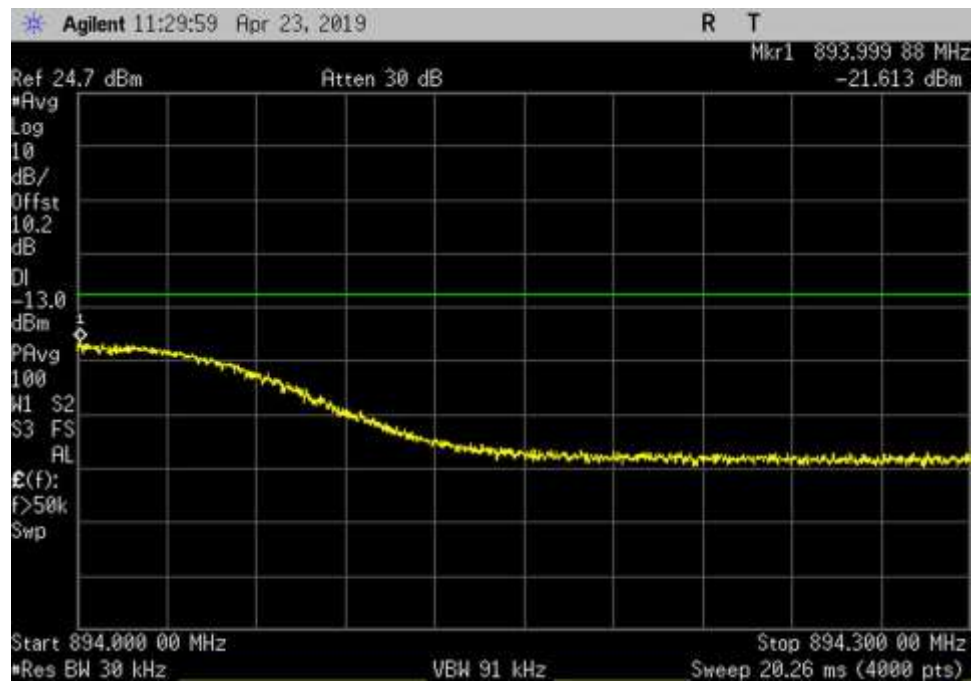
3.6.2 OBE_DL_869-894_GSM_ 868.55- 869MHz_Sn-L+3dB



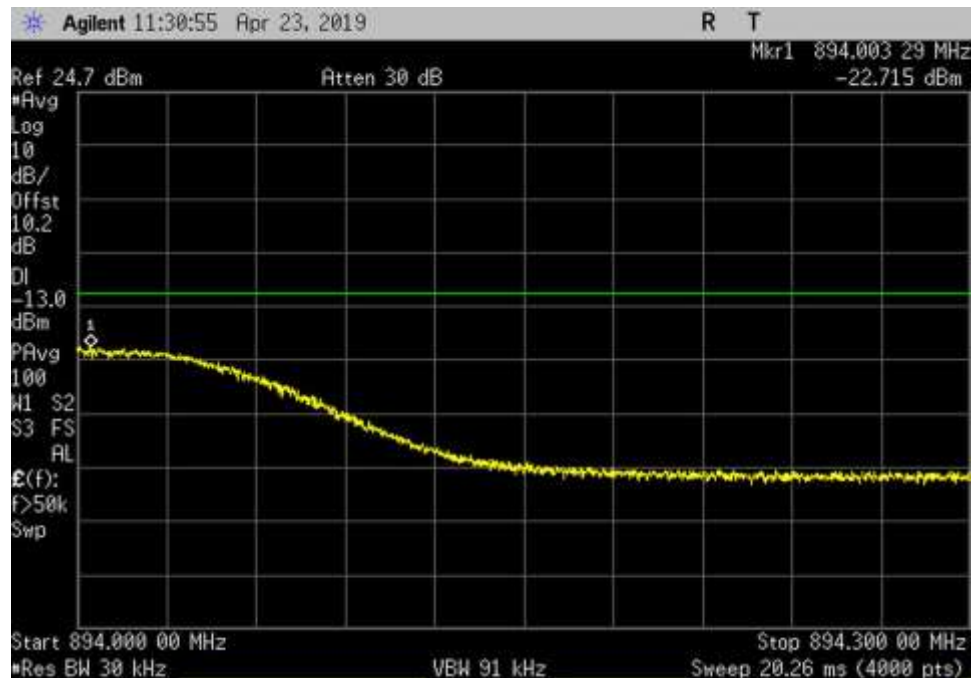
DL_869-894_GSM_ 894- 894.3MHz_Cm-H



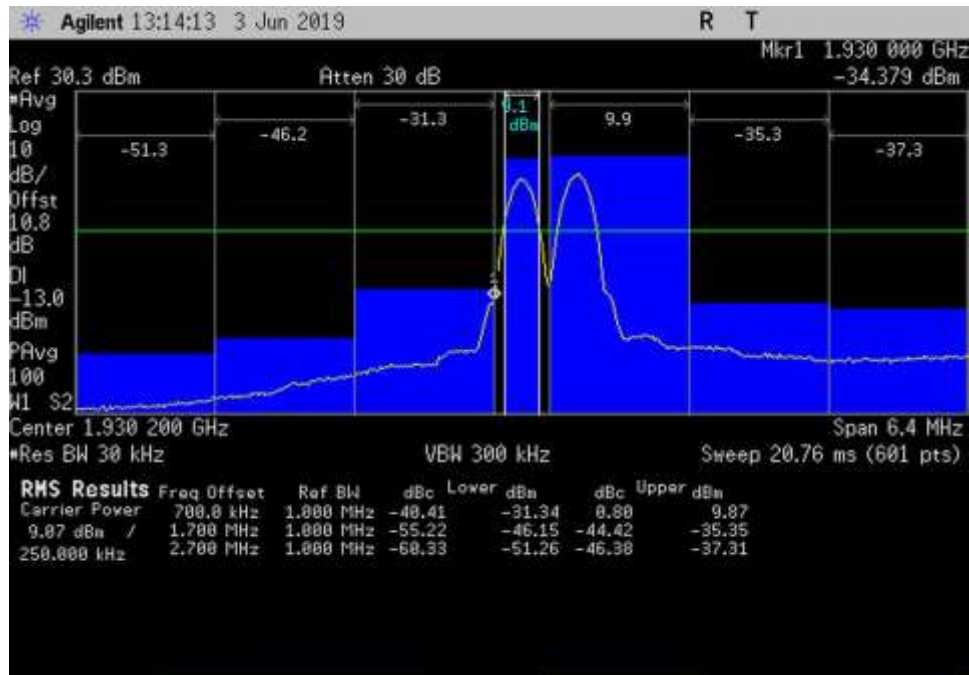
DL_869-894_GSM_ 894- 894.3MHz_Cm-H+3dB



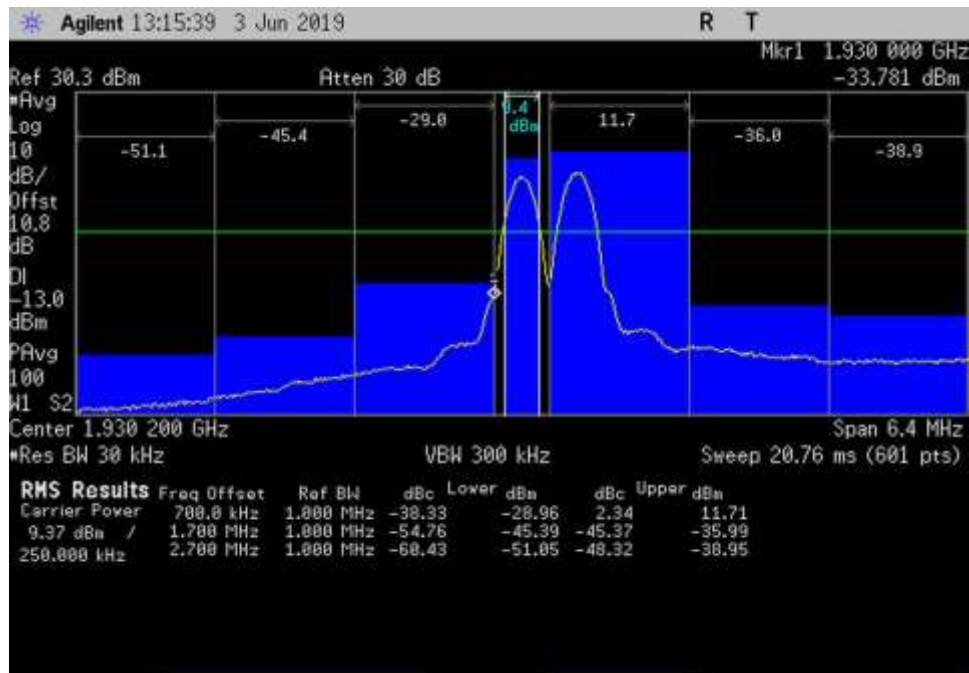
DL_869-894_GSM_ 894- 894.3MHz_Sn-H



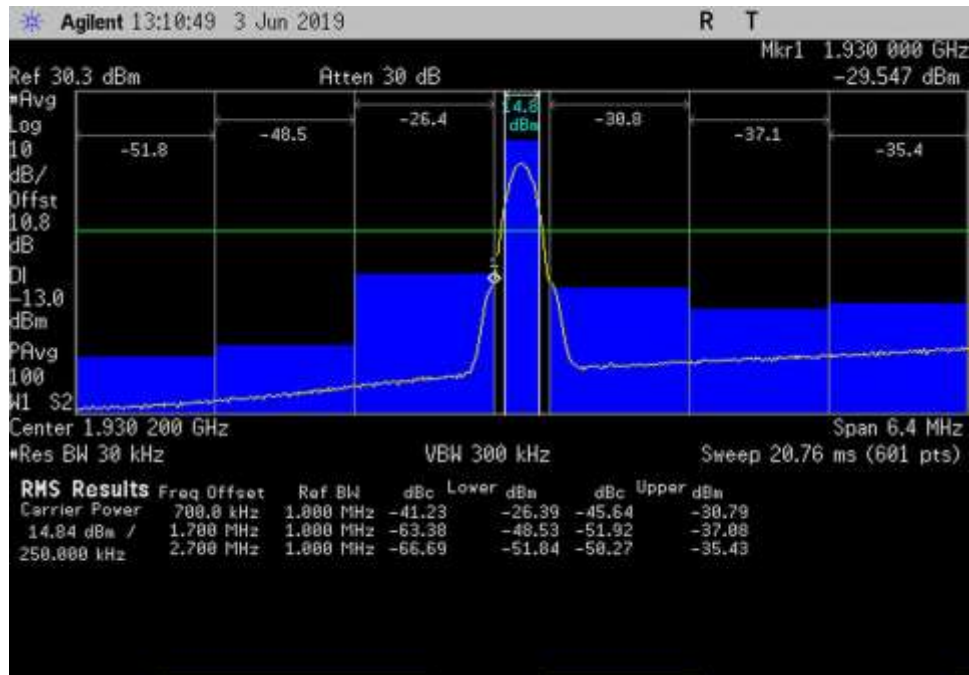
DL_869-894_GSM_ 894- 894.3MHz_Sn-H+3dB



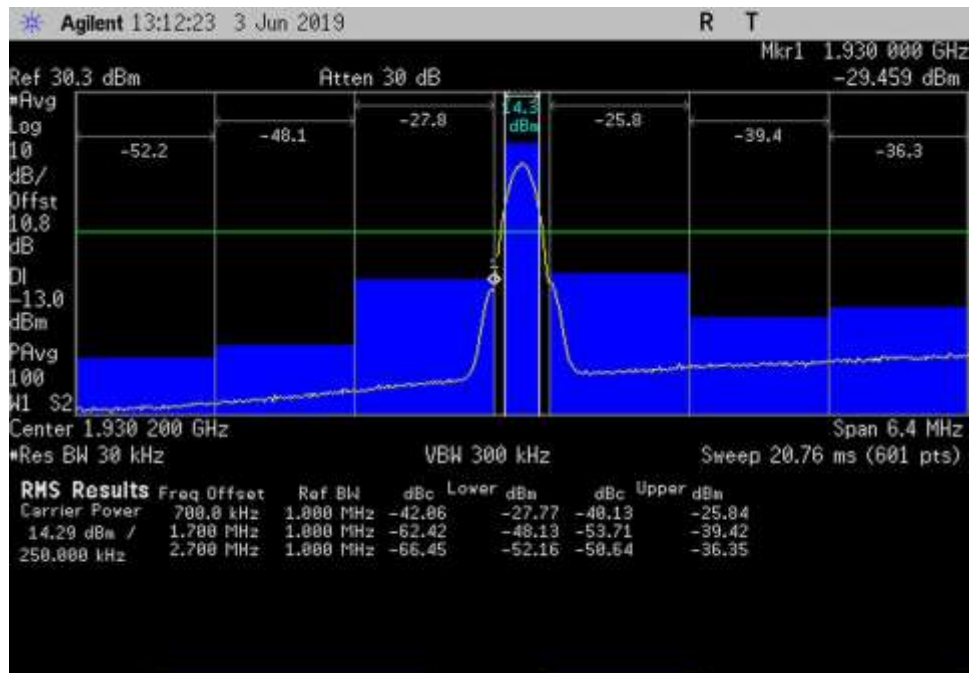
DL_1930-1995_GSM_1927-1930MHz_Cm-L



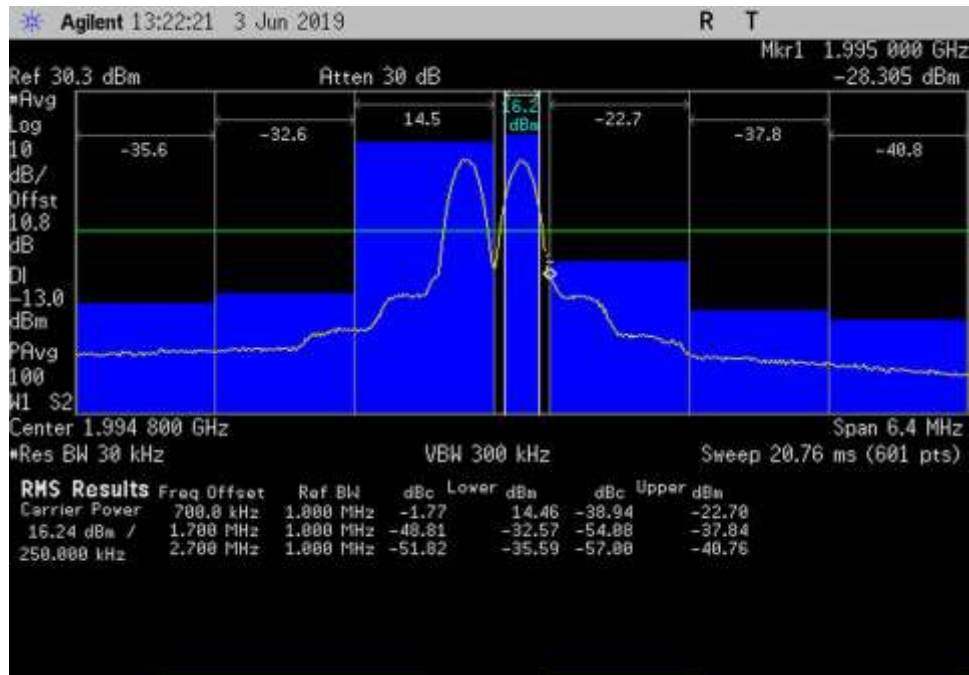
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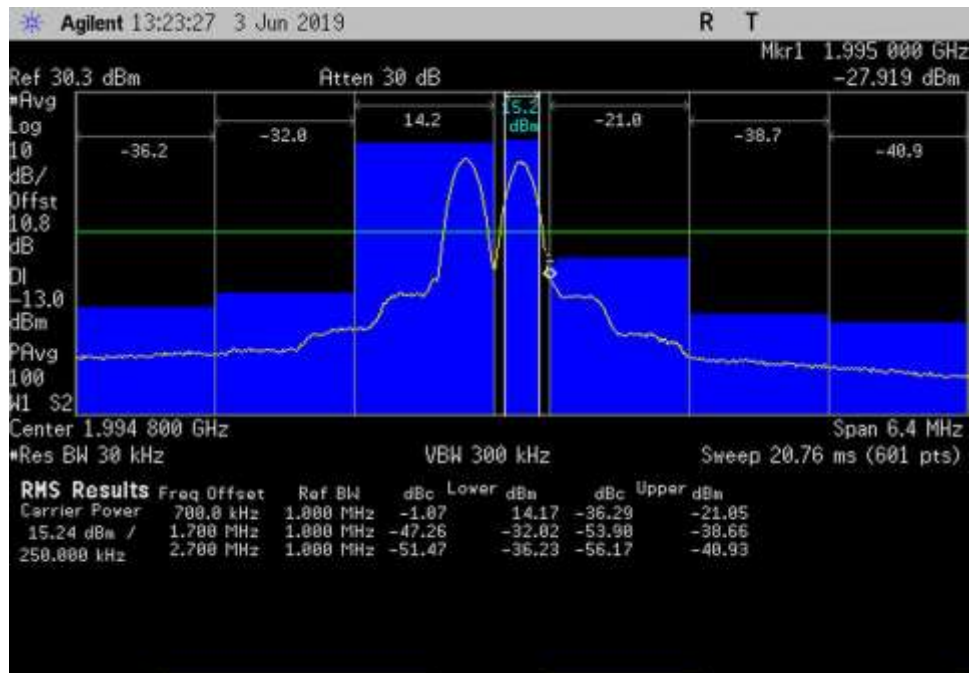
DL_1930-1995_GSM_ 1927- 1930MHz_Sn-L



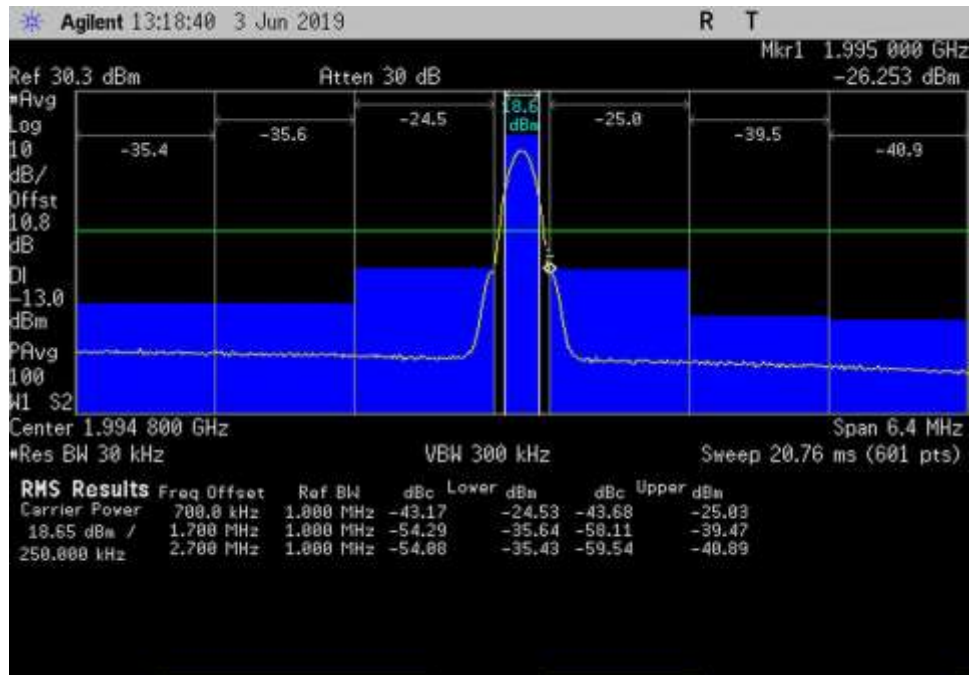
DL_1930-1995_GSM_ 1927- 1930MHz_Sn-L+3dB



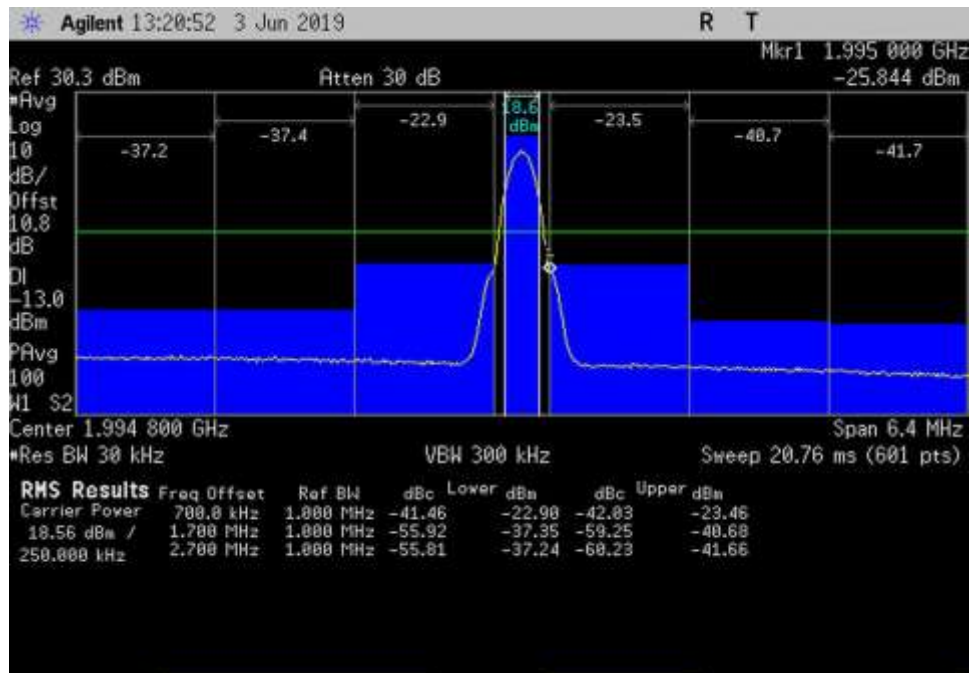
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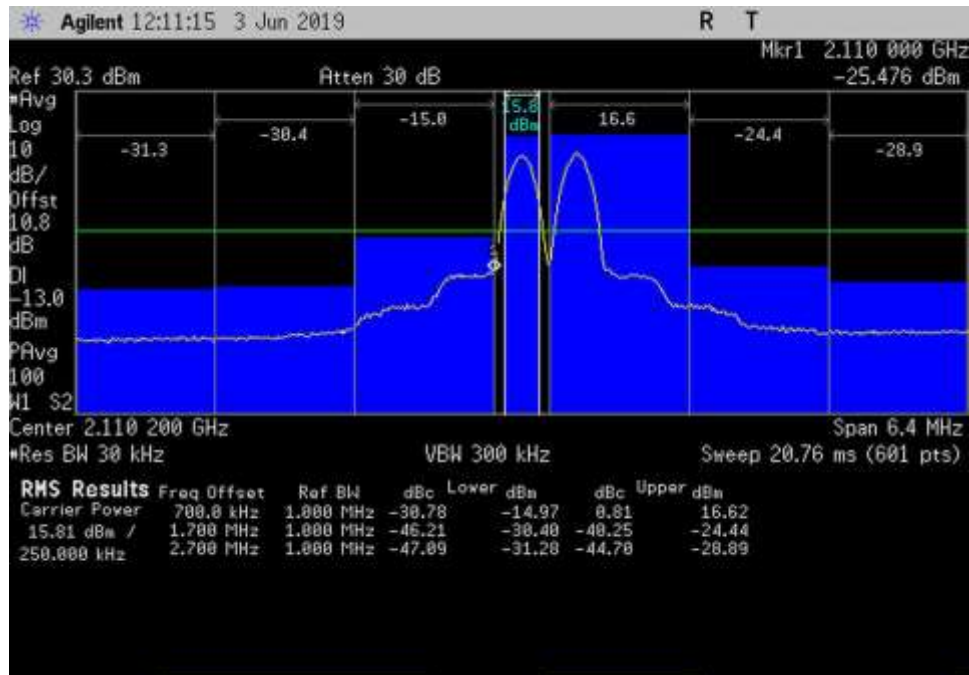
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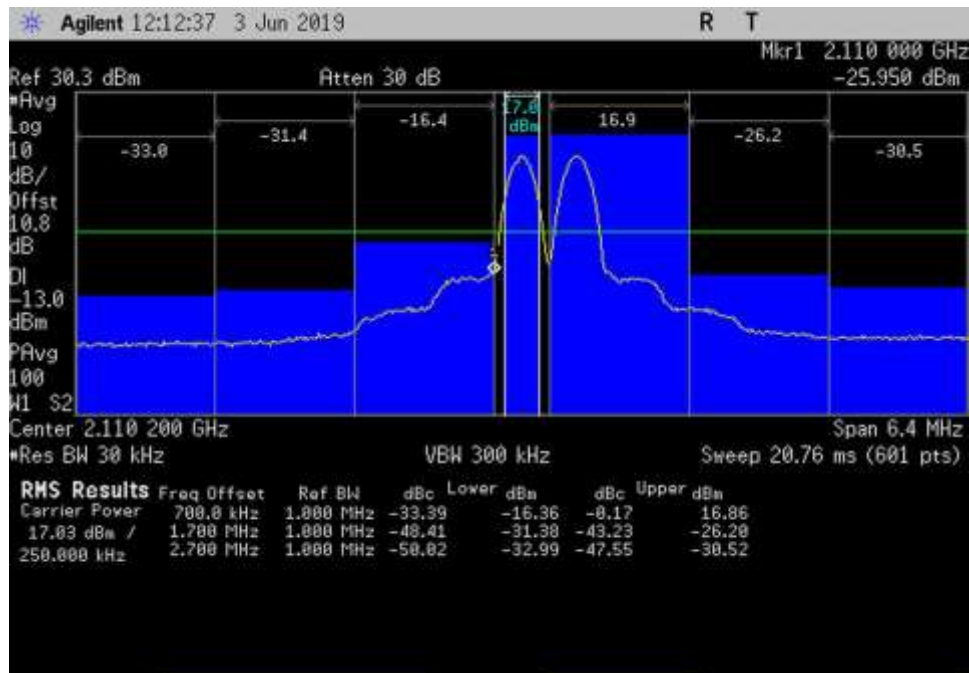
DL_1930-1995_GSM_ 1995- 1998MHz_Sn-H



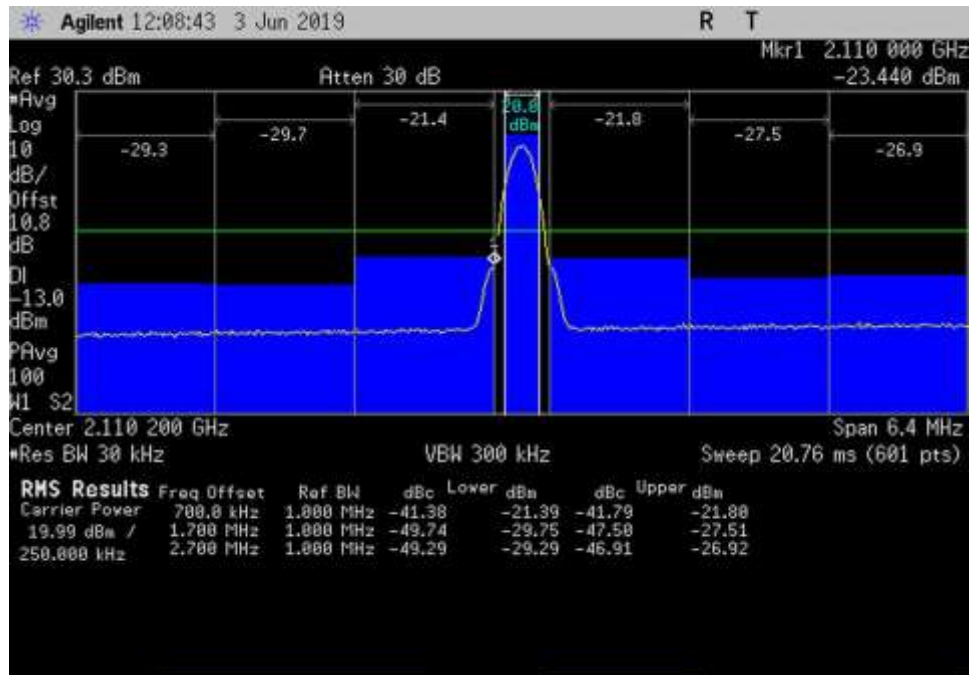
DL_1930-1995_GSM_ 1995- 1998MHz_Sn-H+3dB



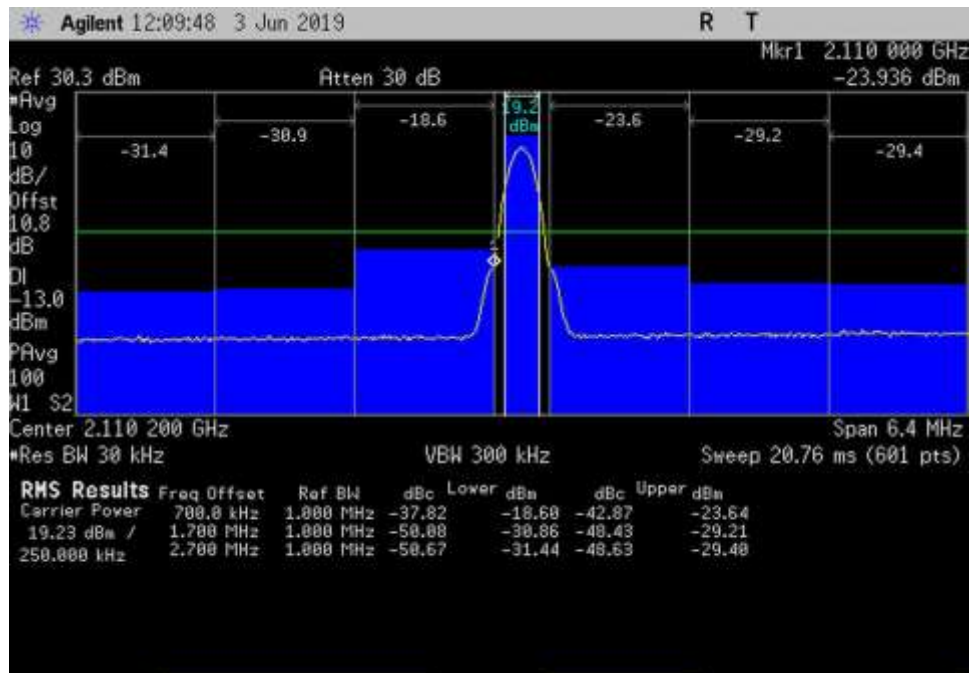
DL_2110-2155_GSM_2107-2110MHz_Cm-L



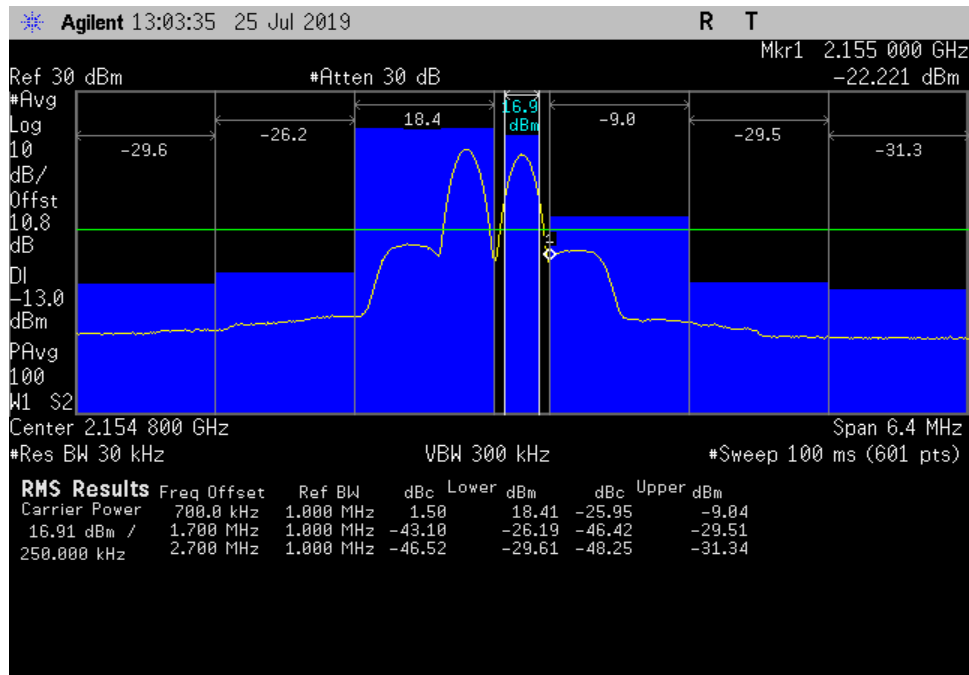
DL_2110-2155_GSM_2107-2110MHz_Cm-L+3dB



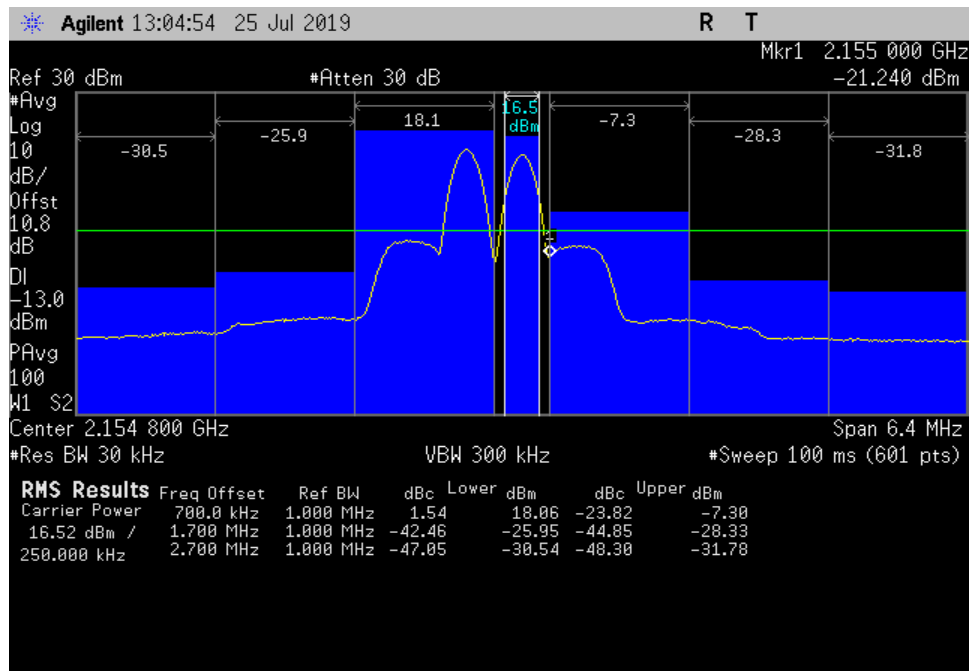
DL_2110-2155_GSM_ 2107- 2110MHz_Sn-L



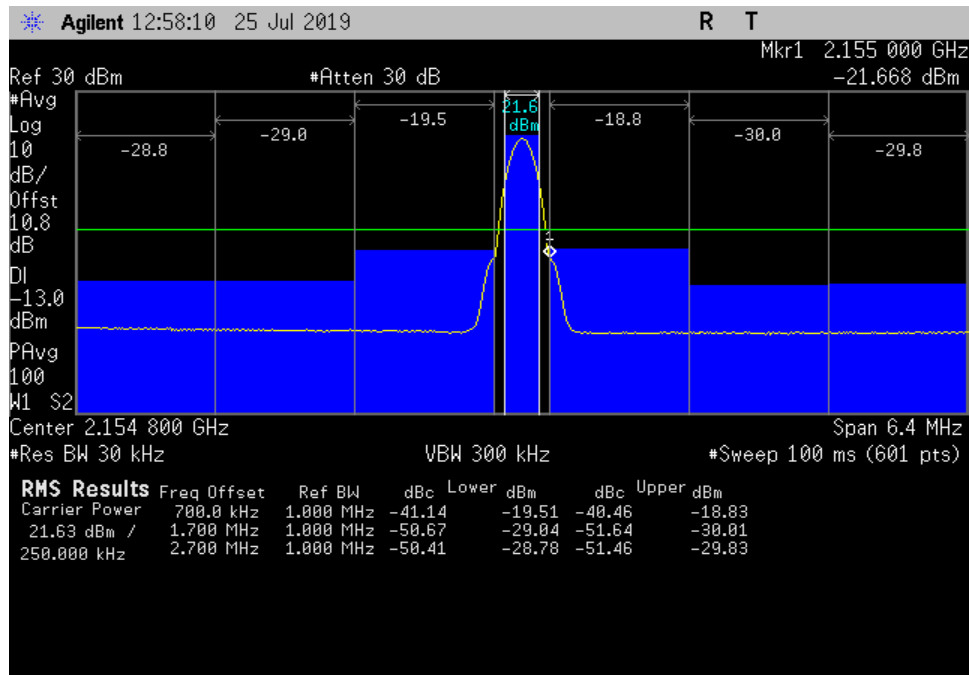
DL_2110-2155_GSM_ 2107- 2110MHz_Sn-L+3dB



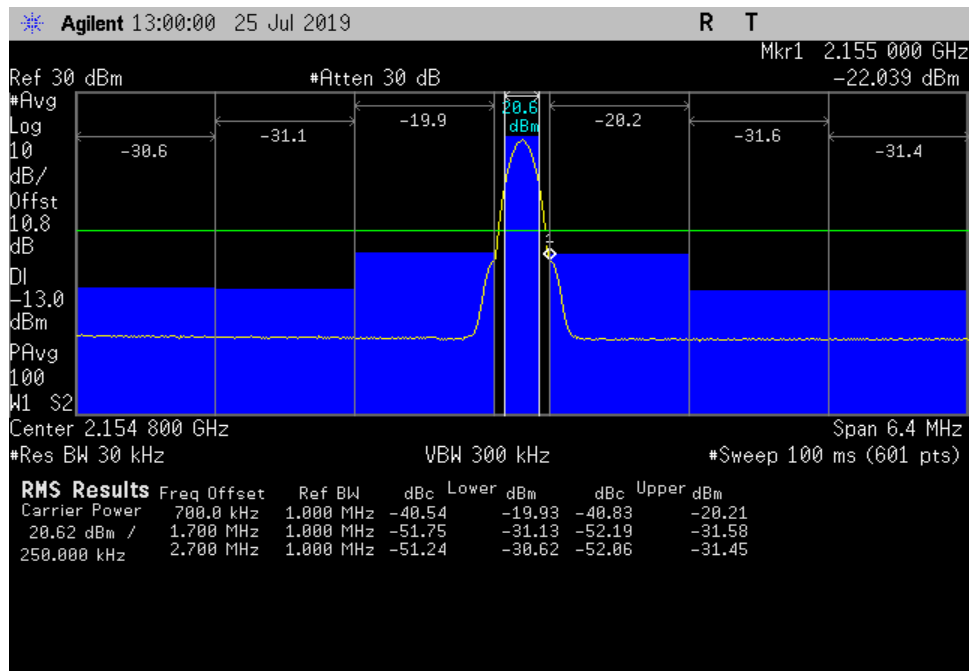
DL_2110-2155_GSM_2151.6-2158MHz_Cm_H



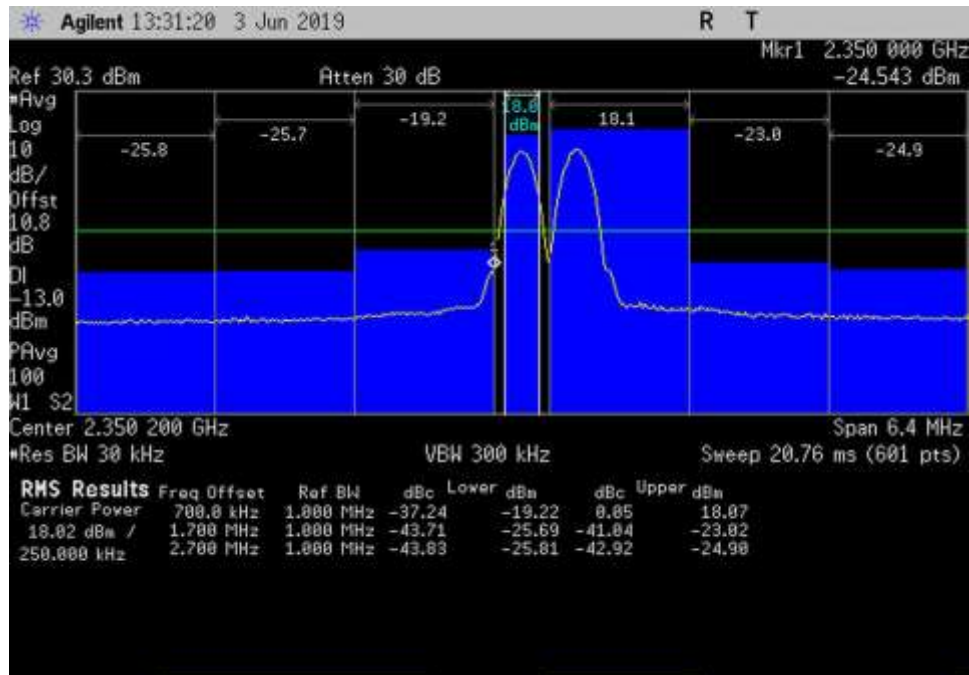
DL_2110-2155_GSM_2151.6-2158MHz_Cm_H+3dB



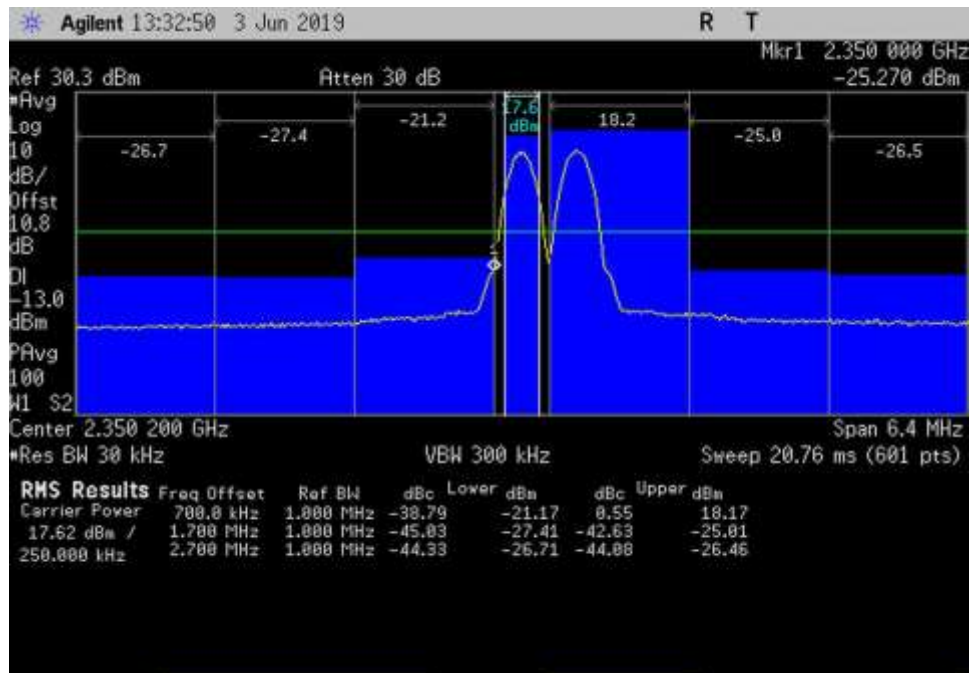
DL_2110-2155_GSM_2151.6-2158MHz_Sn_H



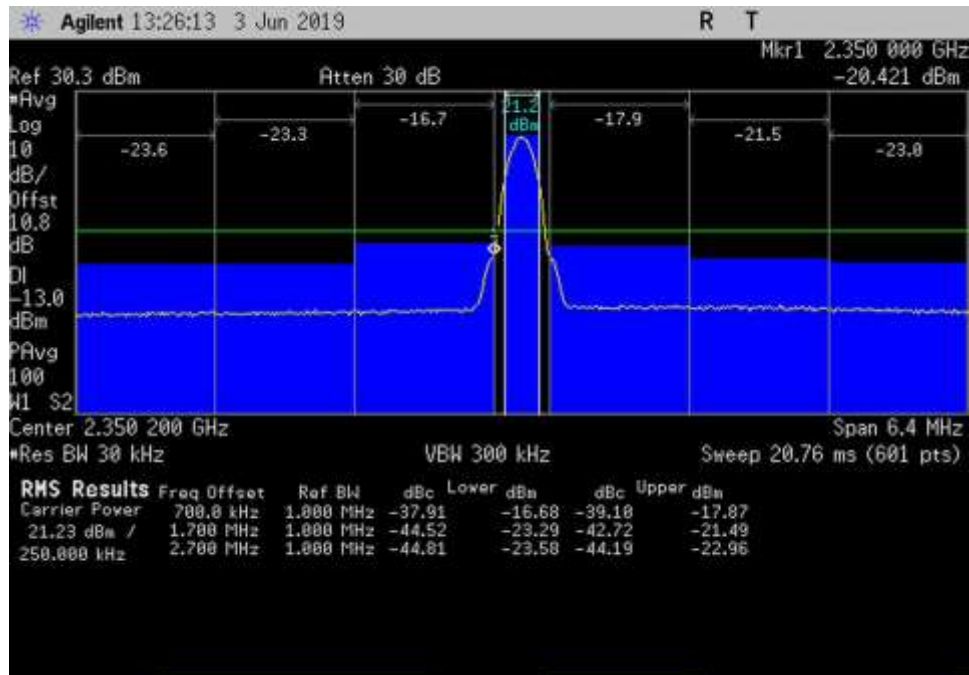
DL_2110-2155_GSM_2151.6-2158MHz_Sn_H+3dB



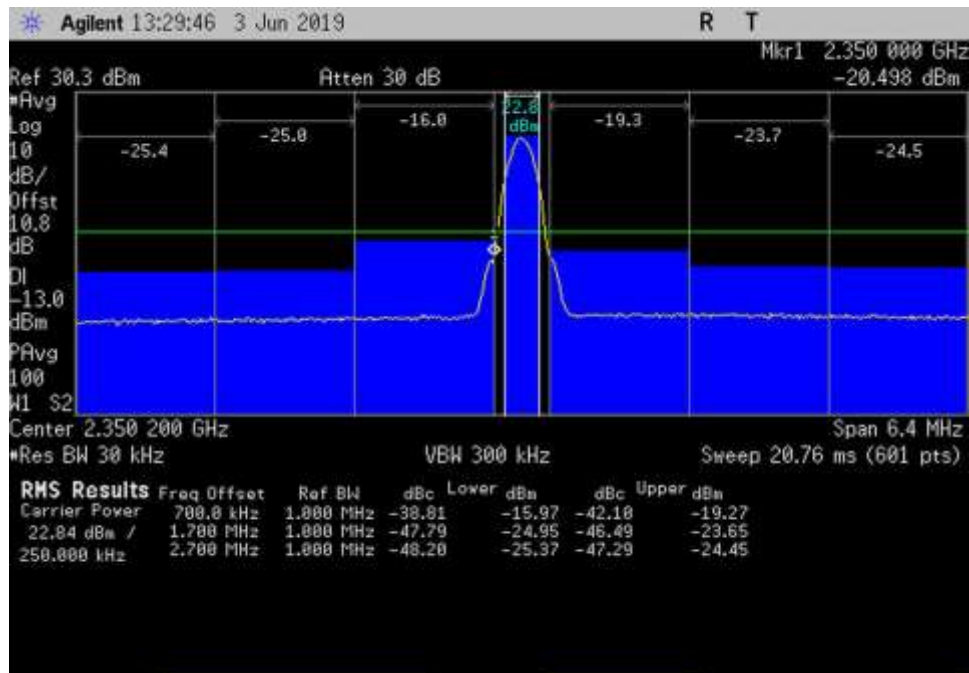
DL_2350-2360_GSM_ 2347- 2350MHz_Cm-L



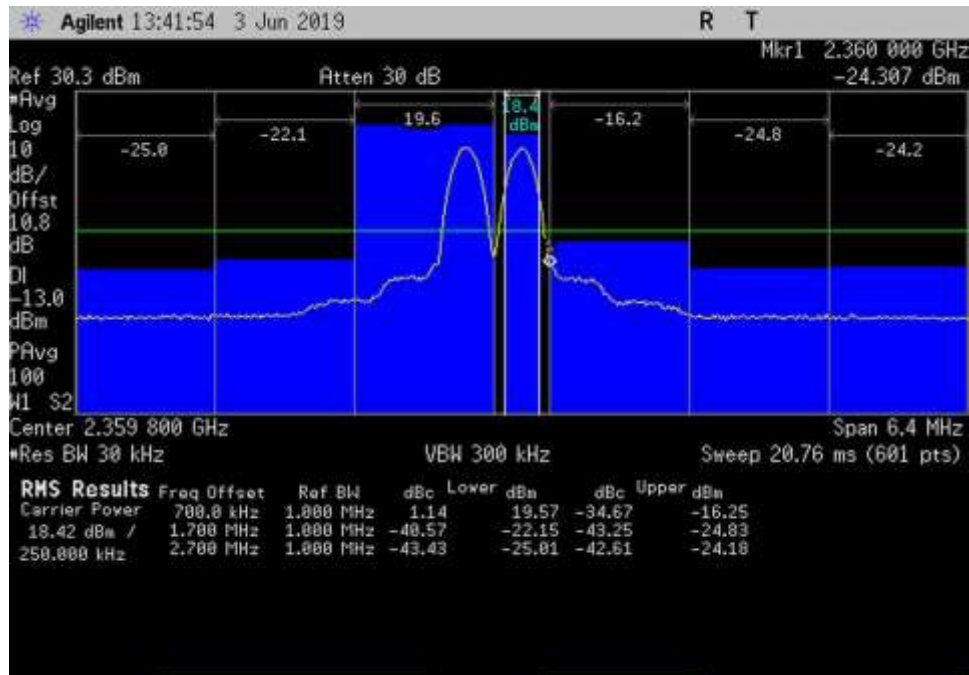
DL_2350-2360_GSM_ 2347- 2350MHz_Cm-L+3dB



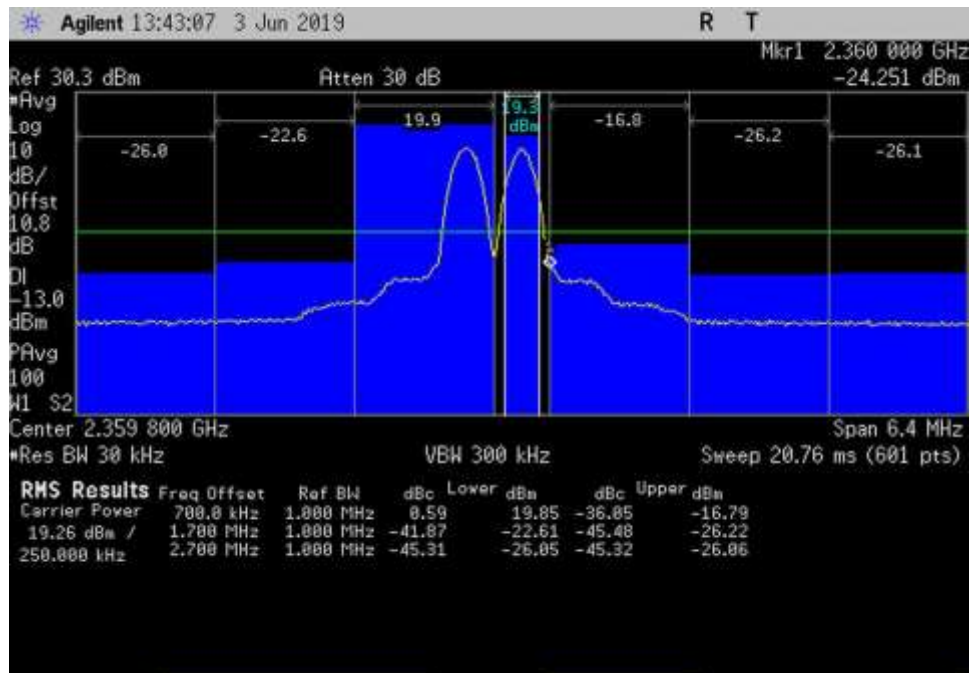
DL_2350-2360_GSM_ 2347- 2350MHz_Sn-L



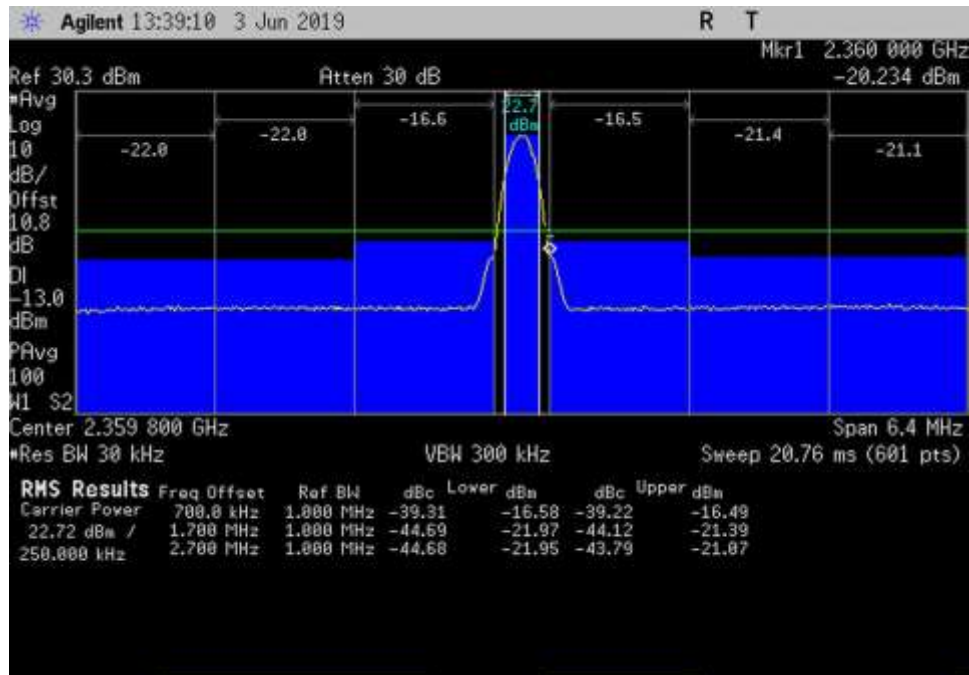
DL_2350-2360_GSM_ 2347- 2350MHz_Sn-L+3dB



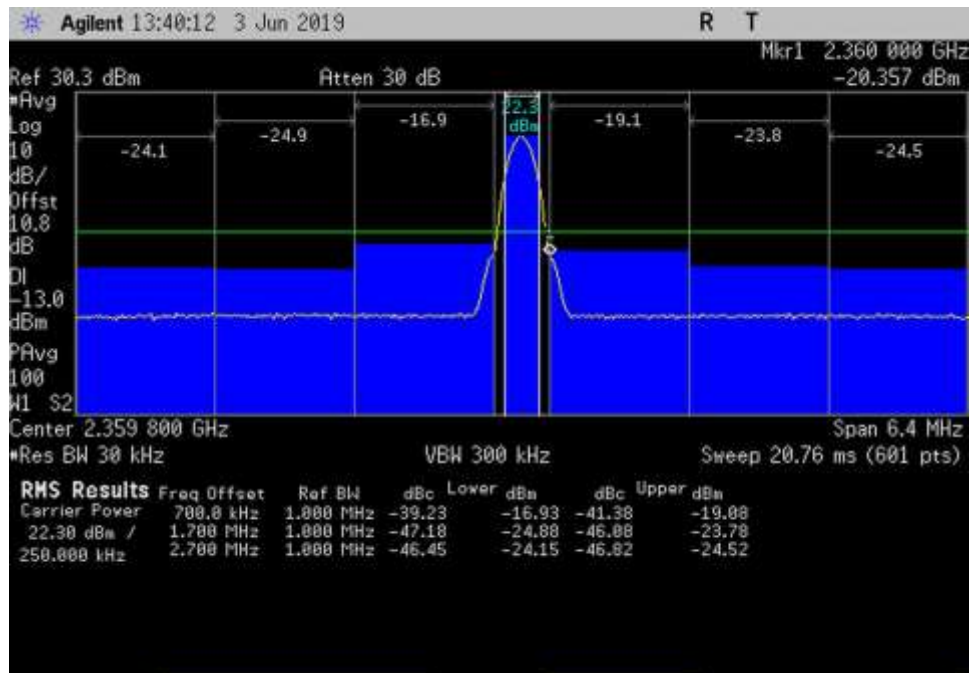
DL_2350-2360_GSM_2360-2363MHz_Cn-H



DL_2350-2360_GSM_2360-2363MHz_Cn-H+3dB



DL_2350-2360_GSM_ 2360- 2363MHz_Sn-H



DL_2350-2360_GSM_ 2360- 2363MHz_Sn-H+3dB

3.6.3 Conducted Spurious Emissions

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: Cellphone-Mate, Inc.
 Specification: **3.6.3 Conducted Spurious Emissions / 47 CFR §2.1051 Spurious Emissions at Antenna Terminals**
 Work Order #: **102430** Date 04/24/2019 and 10/18/2019
 Test Type: **Conducted Emissions**
 Tested By: **Hieu S Nguyenpham**
 Software: EMITest 5.03.11

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N

Test Conditions / Notes:

Test environment conditions:
 Temperature: 22.6°C,
 Relative Humidity: 45 %
 Atmospheric Pressure: 102.0kPa

Test environment conditions for 10/18/2019:
 Temperature: 20.8°C
 Relative Humidity: 46%
 Atmospheric Pressure: 101.4 kPa a

Frequency range of measurement = 30MHz- 24GHz.
 30 MHz - 1000MHz -> RBW*= 1MHz VBW= 3MHz
 1000 MHz - 24000MHz ->RBW= 1MHz VBW= 3MHz

*Note: As specified on 3.6.3 Conducted spurious emissions test procedure of 935210 D05 Industrial Booster Measurements v01r03, for frequencies below 1 GHz, an RBW of 1 MHz may be used in a preliminary measurement. If non-compliant emissions are detected, a final measurement shall be made with a 100 kHz RBW. Additionally, a peak detector may also be used for the preliminary measurement. If non-compliant emissions are detected, then a final measurement of these emissions shall be made with the power averaging (RMS) detector.

27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotopically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Test Equipment:

Asset #	Description	Manufacturer	Model	Calibration Date	Cal Due Date
P05411	Attenuator	Weinschel	54A-10	1/19/2018	1/19/2020
P07192	Cable	Astro	32022-29094K-29094K-48TC	10/9/2017	10/9/2019
P07191	Cable	Astro	32022-29094K-29094K-48TC	10/30/2017	10/30/2019
03418	Signal Generator	Agilent	E4438C	6/19/2017	6/19/2019
03471	Spectrum Analyzer	Agilent	E4440A	1/18/2018	1/18/2020

Summary of Results

Pass: As summarized in plots below, the conducted spurious emissions are within limits.

9 kHz-30 MHz

No Conducted Spurious Emissions were found within 20dB of the limit.

Per section 27.53 (f), the 1559-1610 band was also investigated and found emission within limits using applied correction (see calculation below).

Limit Line Calculation*				
Frequency (MHz)	Antenna Gain- cable loss (dBi)	Limit line EIRP (dBW/MHz)	Limit line EIRP (dBm)	Limit line EIRP corrected (dBm)
UL 776-787	0	-70.0	-40	-40

LIMIT LINE FOR SPURIOUS CONDUCTED EMISSION

$$\text{REQUIRED ATTENUATION} = 43 + 10 \log P \text{ DB}$$

$$\text{Limit line (dBuV)} = V_{\text{dBuV}} - \text{Attenuation}$$

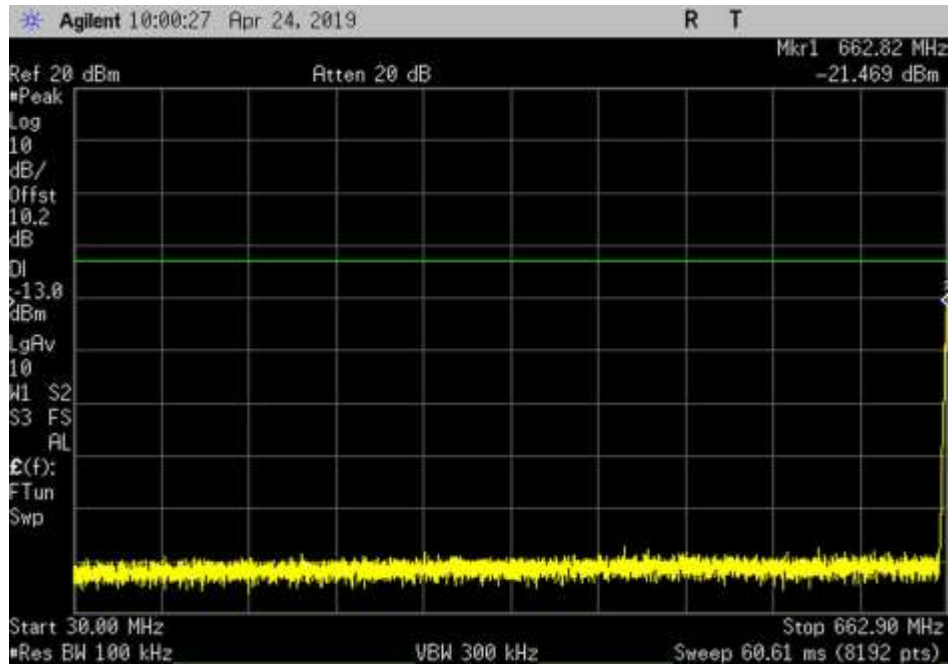
$$\begin{aligned} V_{\text{dBuV}} &= 20 \log \frac{V}{1 \times 10^{-6}} \\ &= 20 (\log V - \log 1 \times 10^{-6}) \\ &= 20 \log V - 20 \log 1 \times 10^{-6} \\ &= 20 \log V - 20(-6) \\ &= 20 \log V + 120 \end{aligned}$$

$$\begin{aligned} \text{Attenuation} &= 43 + 10 \log P \\ &= 43 + 10 \log \frac{V^2}{R} \\ &= 43 + 10 (\log V^2 - \log R) \\ &= 43 + 10 (2 \log V - \log R) \\ &= 43 + 20 \log V - 10 \log R \end{aligned}$$

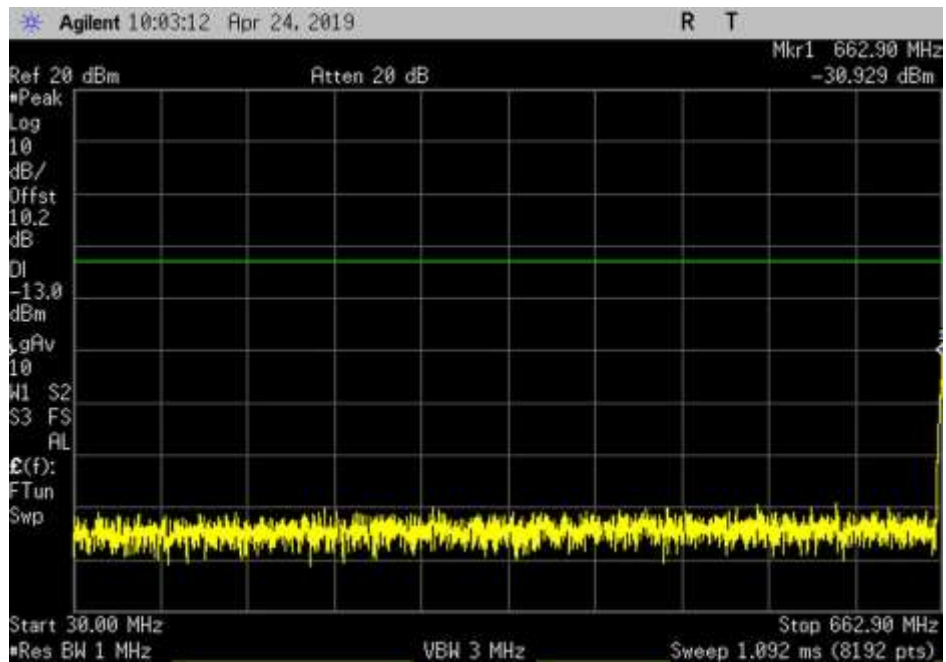
$$\begin{aligned} \text{Limit line} &= V_{\text{dBuV}} - \text{Attenuation} \\ &= 20 \log V + 120 - (43 + 20 \log V - 10 \log R) \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 120 - 43 + 10 \log 50 \quad \text{Note : } R = 50 \Omega \\ &= 120 - 43 + 16.897 \\ &= 94 \text{ dBuV at any power level} \end{aligned}$$

Plots

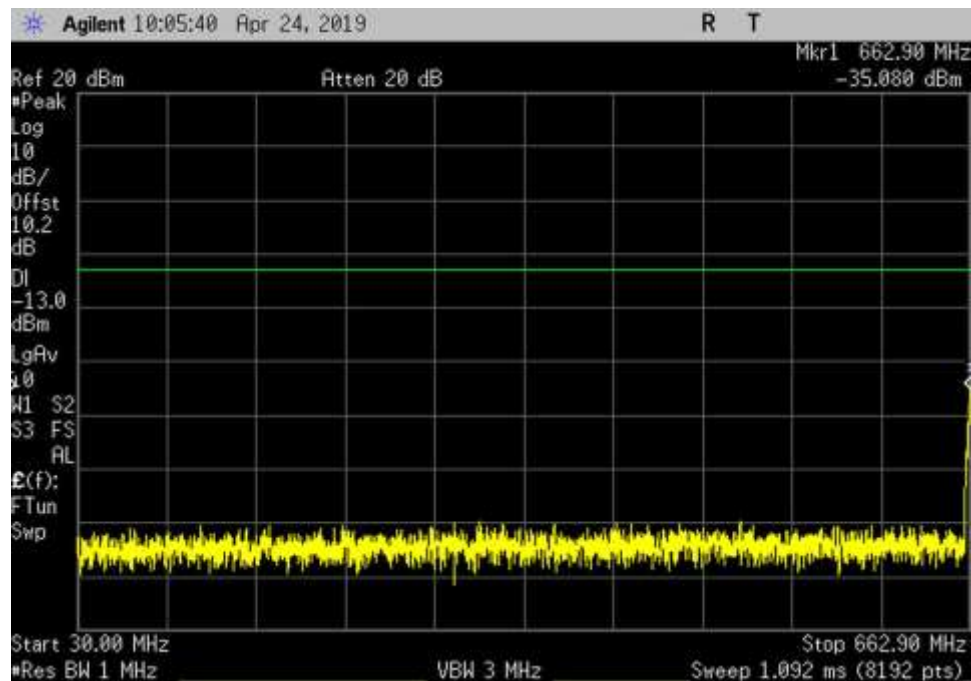
AWGN



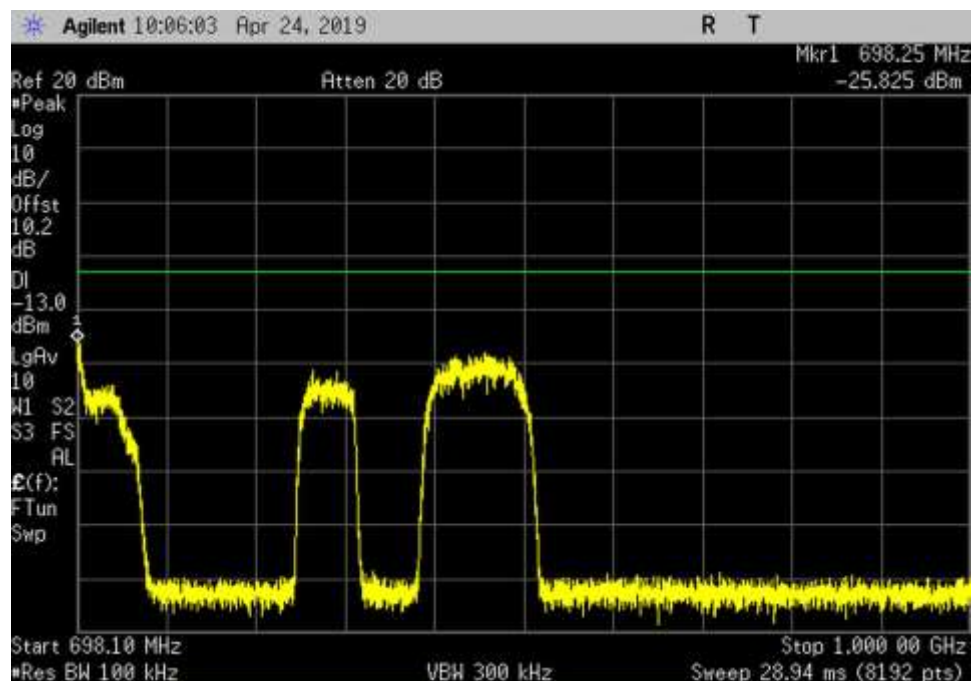
UL_663-698_AWGN_ 30- 662.9MHz_LC



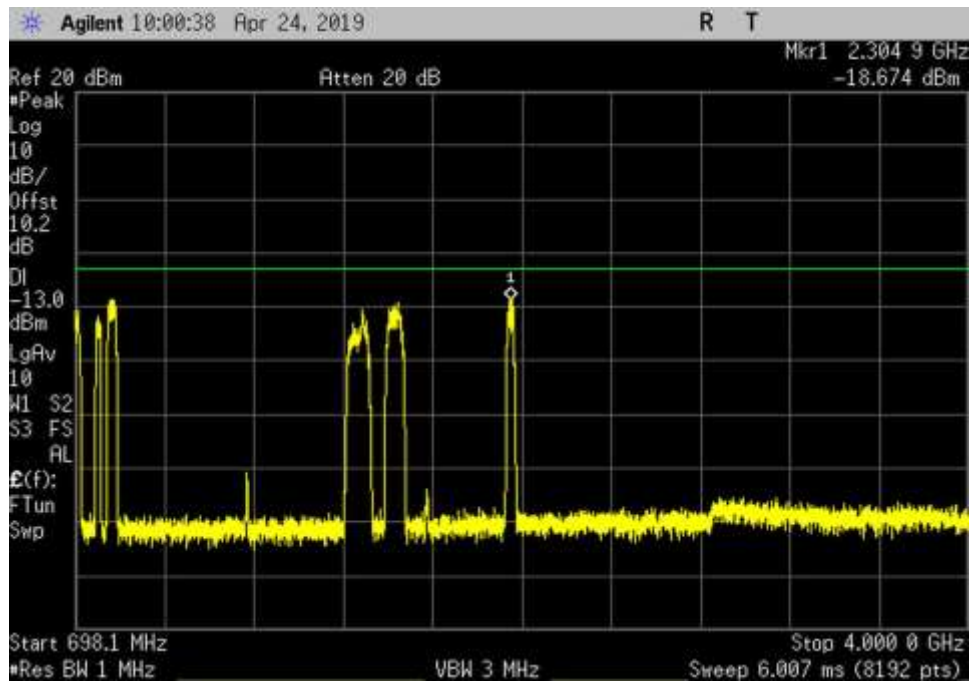
UL_663-698_AWGN_ 30- 662.9MHz_MC



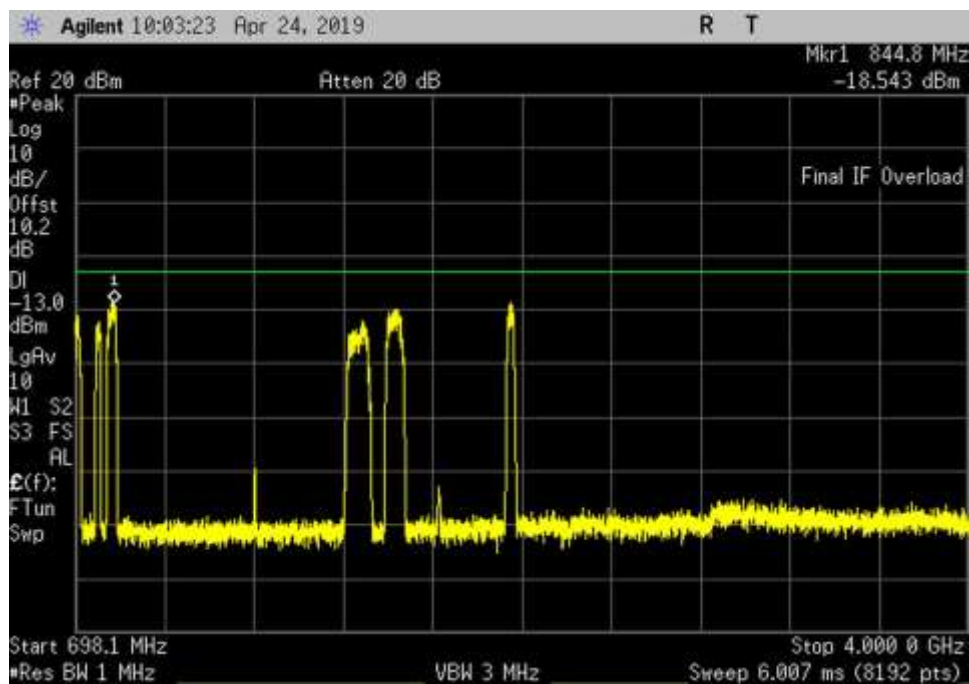
UL_663-698_AWGN_ 30- 662.9MHz_HC



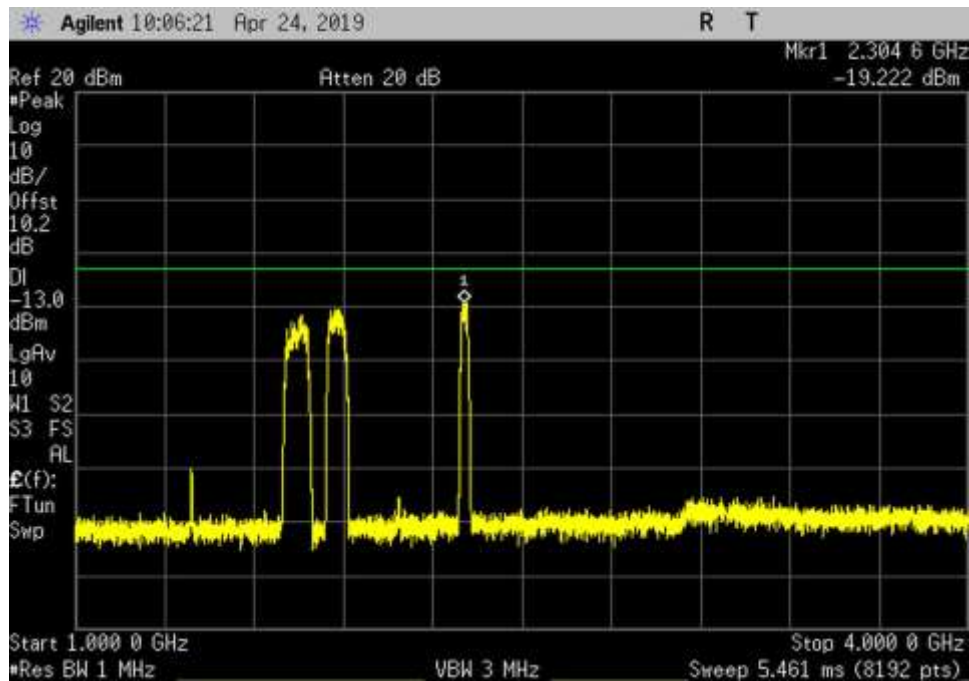
UL_663-698_AWGN_ 698.1- 1000MHz_HC



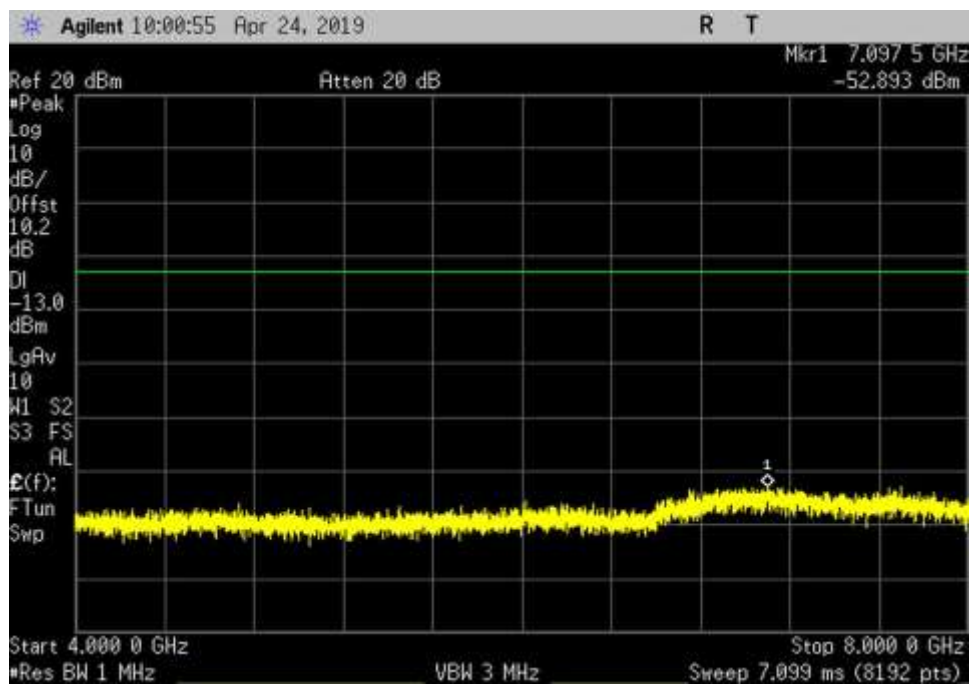
UL_663-698_AWGN_698.1- 4000MHz_LC



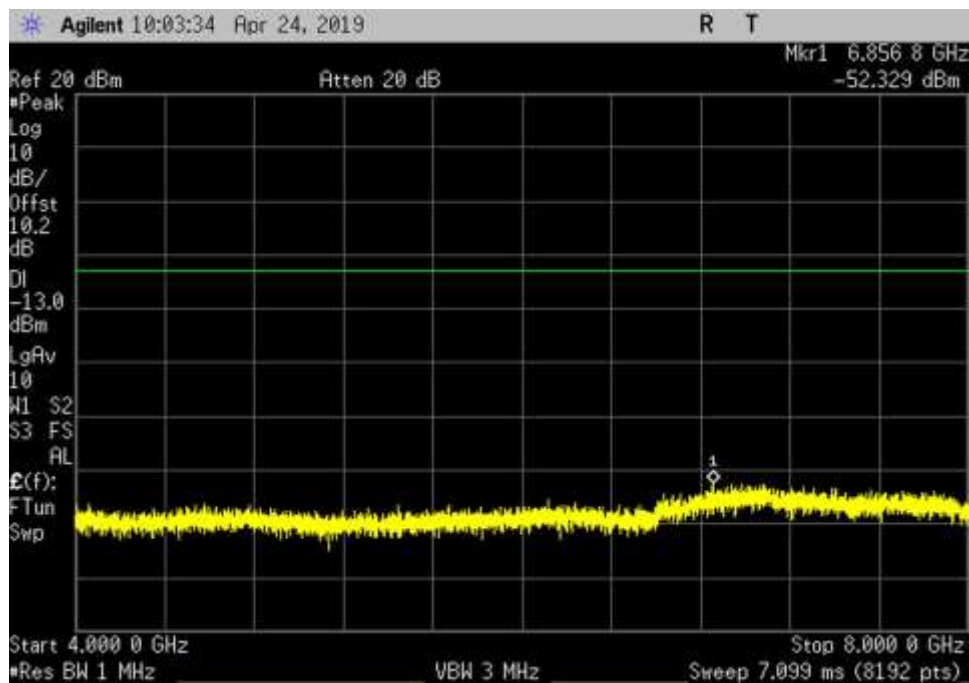
UL_663-698_AWGN_698.1- 4000MHz_MC



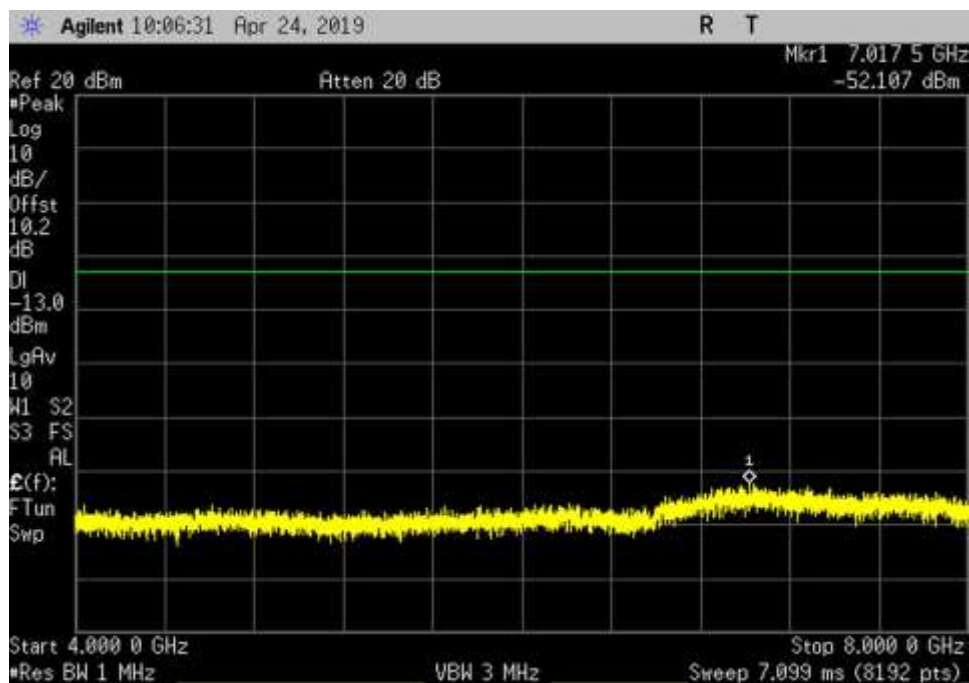
UL_663-698_AWGN_1000-4000MHz_HC



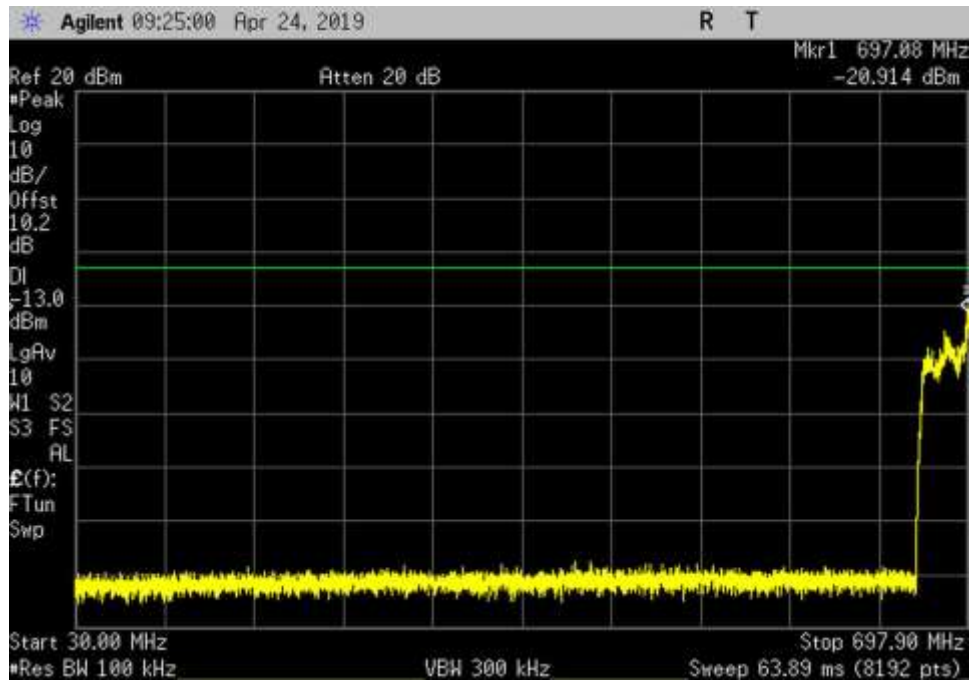
UL_663-698_AWGN_4000-8000MHz_LC



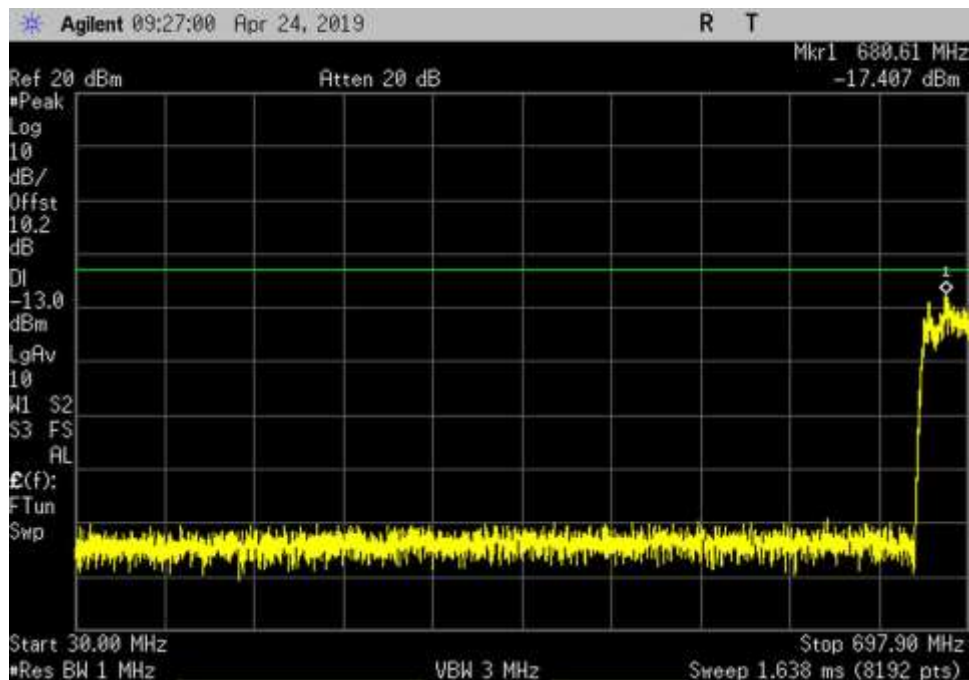
UL_663-698_AWGN_ 4000- 8000MHz_MC



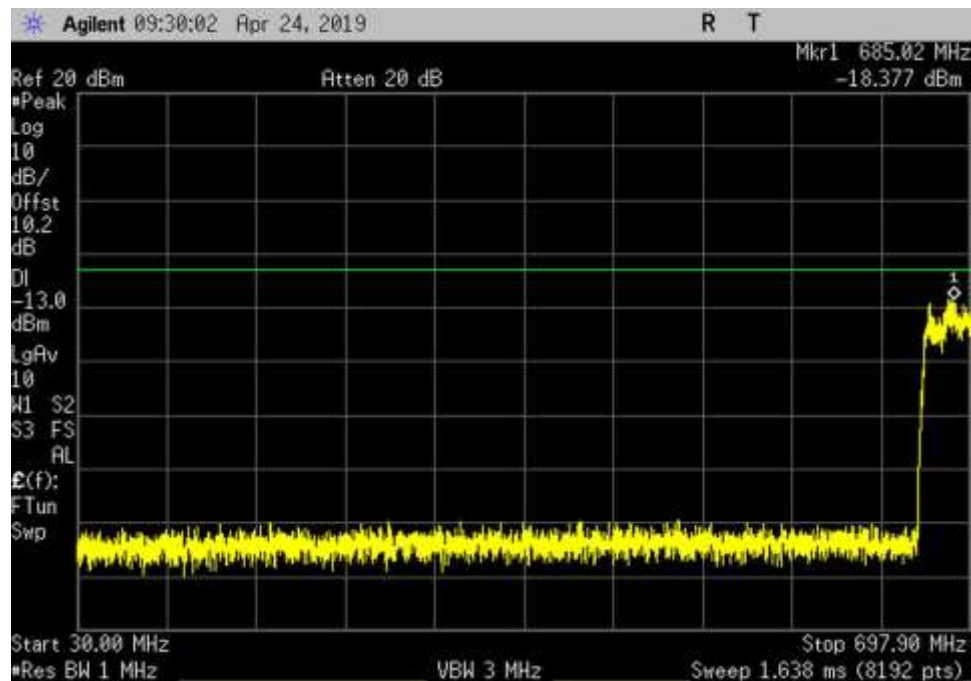
UL_663-698_AWGN_ 4000- 8000MHz_HC



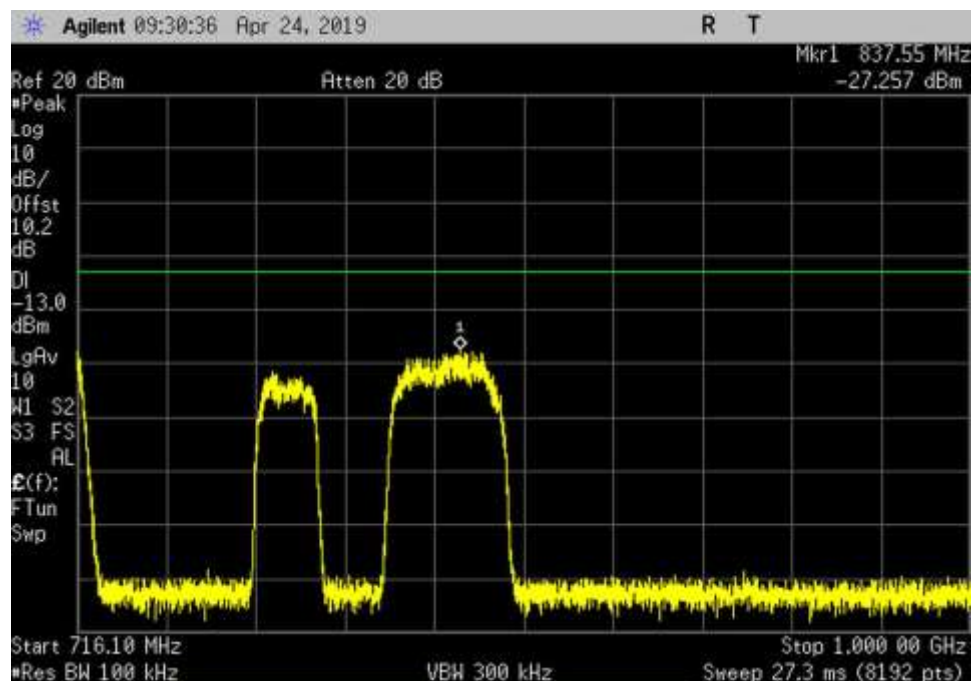
UL_698-716_AWGN_ 30- 697.9MHz_LC



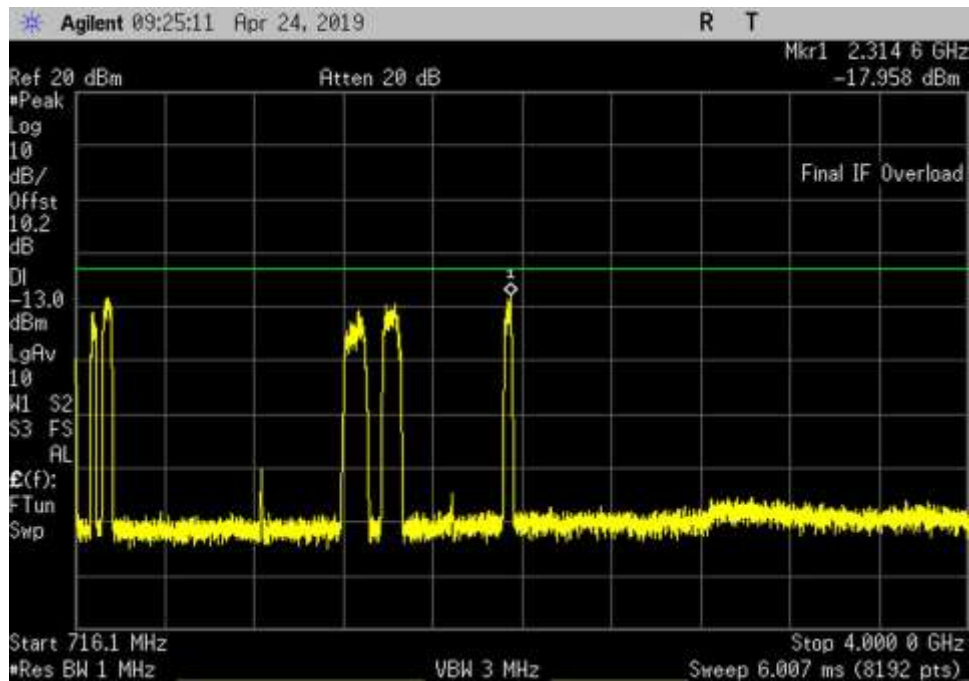
UL_698-716_AWGN_ 30- 697.9MHz_MC



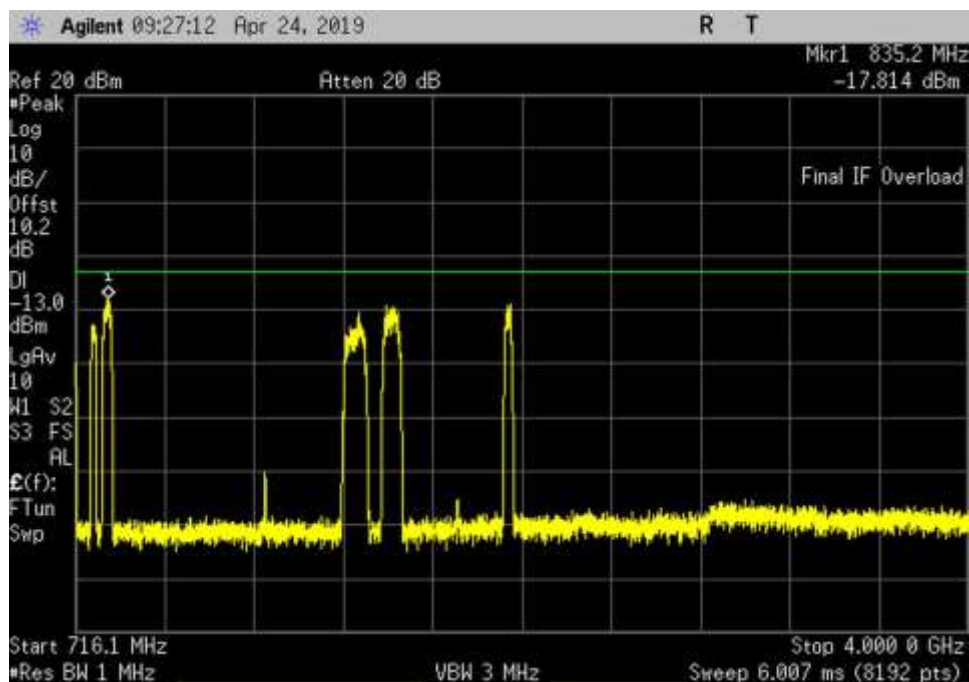
UL_698-716_AWGN_ 30- 697.9MHz_HC



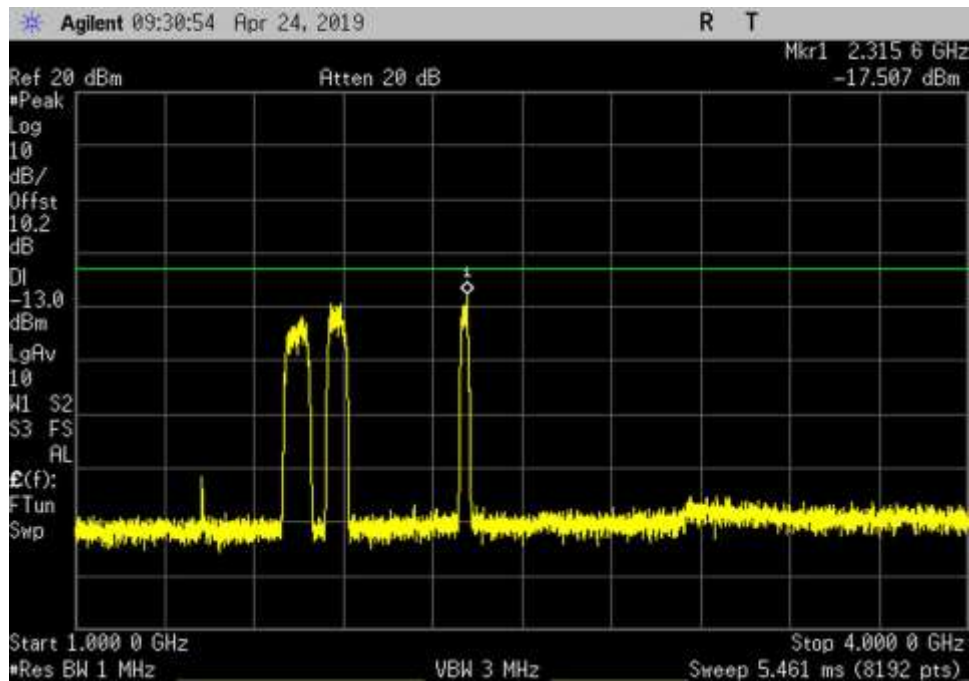
UL_698-716_AWGN_ 716.1- 1000MHz_HC



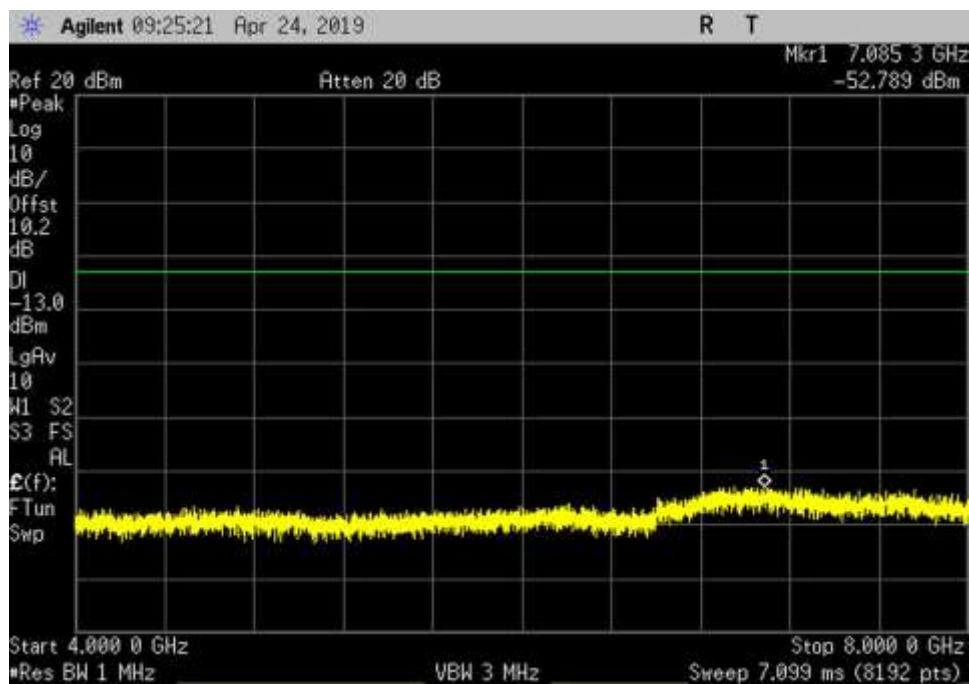
UL_698-716_AWGN_716.1- 4000MHz_LC



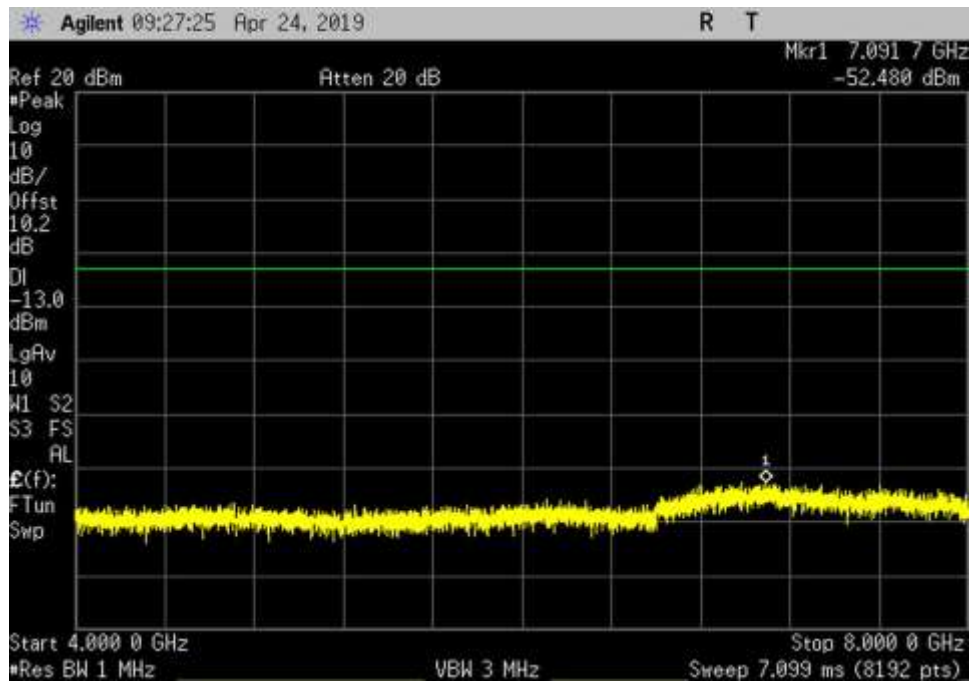
UL_698-716_AWGN_716.1- 4000MHz_MC



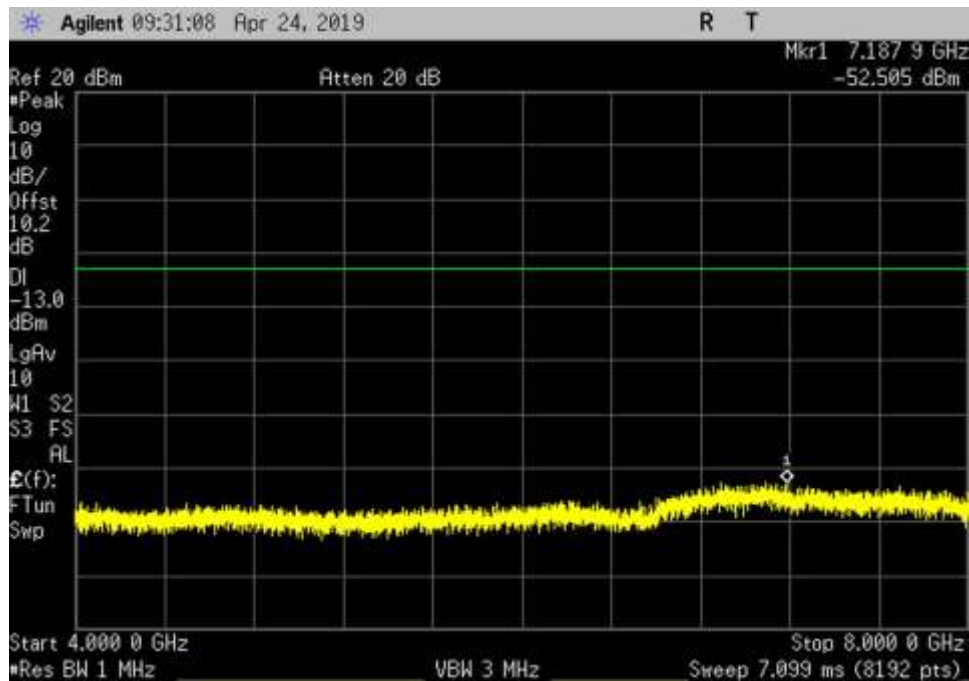
UL_698-716_AWGN_1000-4000MHz_HC



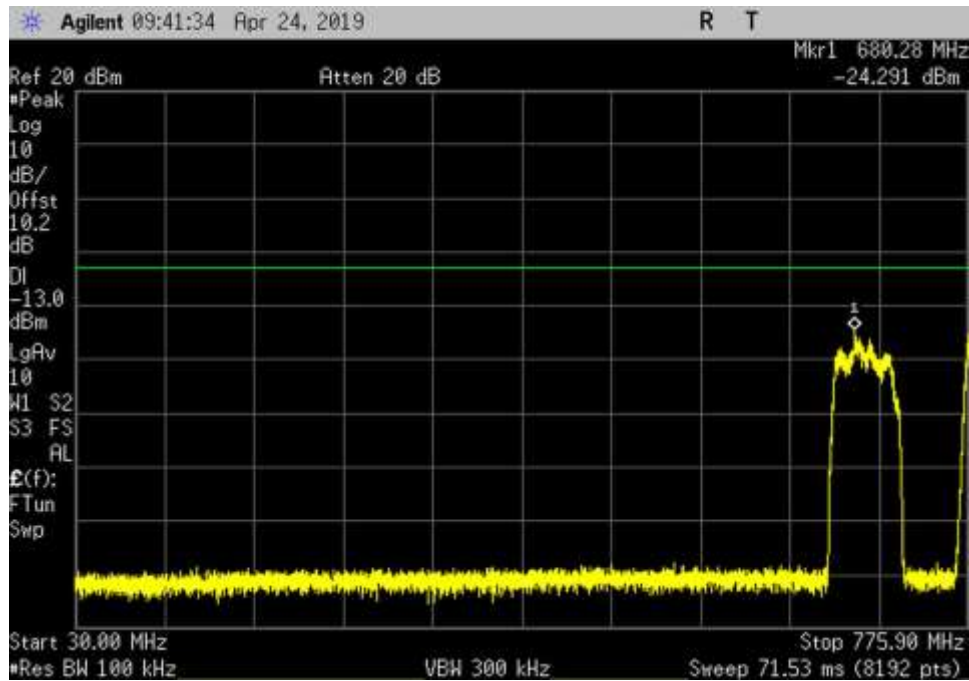
UL_698-716_AWGN_4000-8000MHz_LC



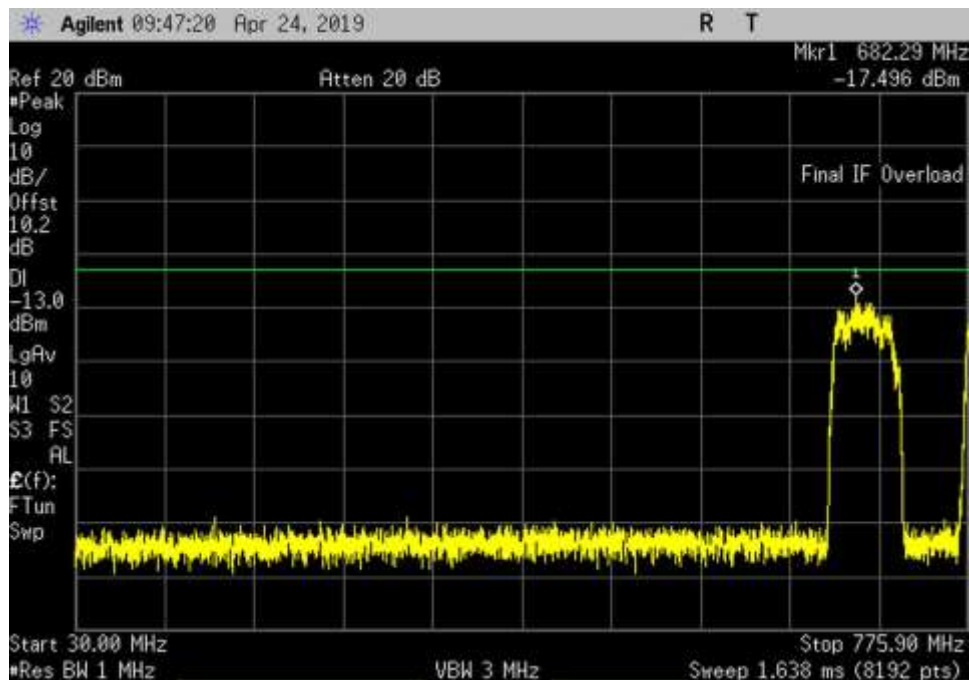
UL_698-716_AWGN_4000-8000MHz_MC



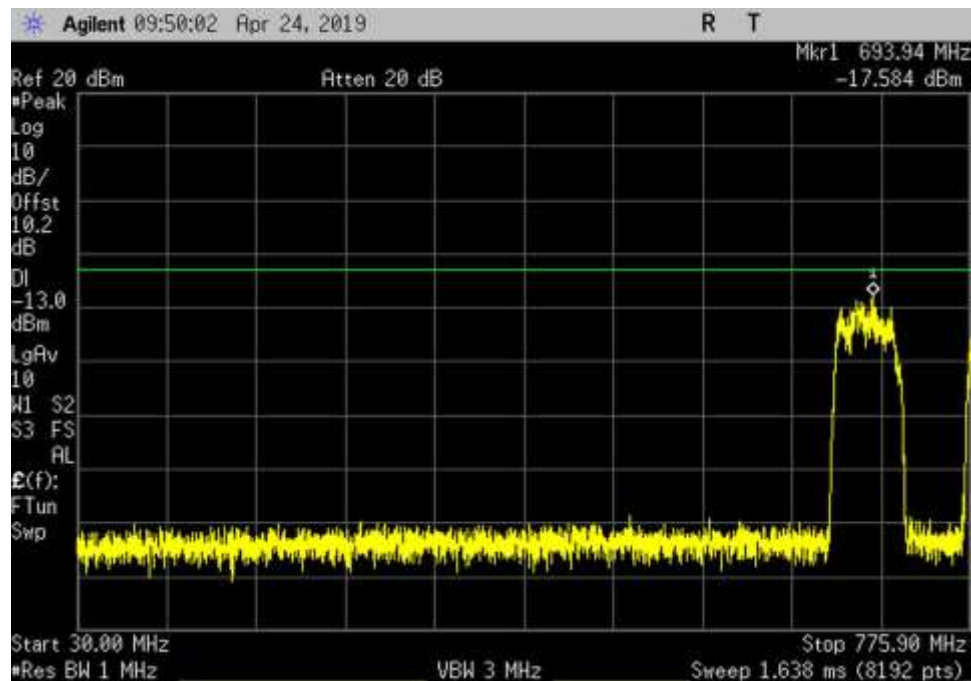
UL_698-716_AWGN_4000-8000MHz_HC



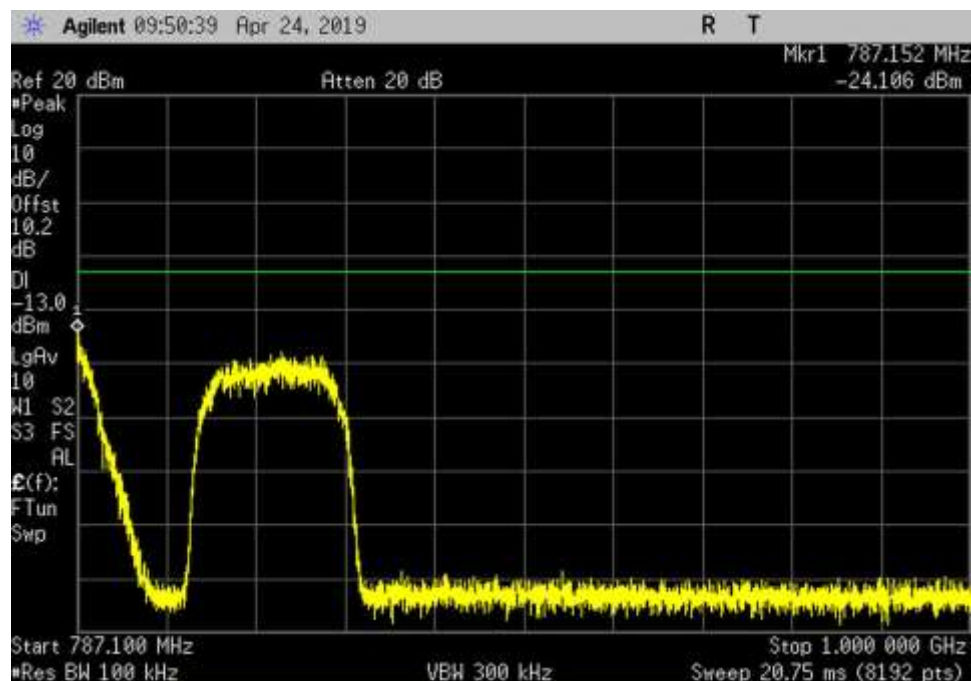
UL_776-787_AWGN_ 30- 775.9MHz_LC



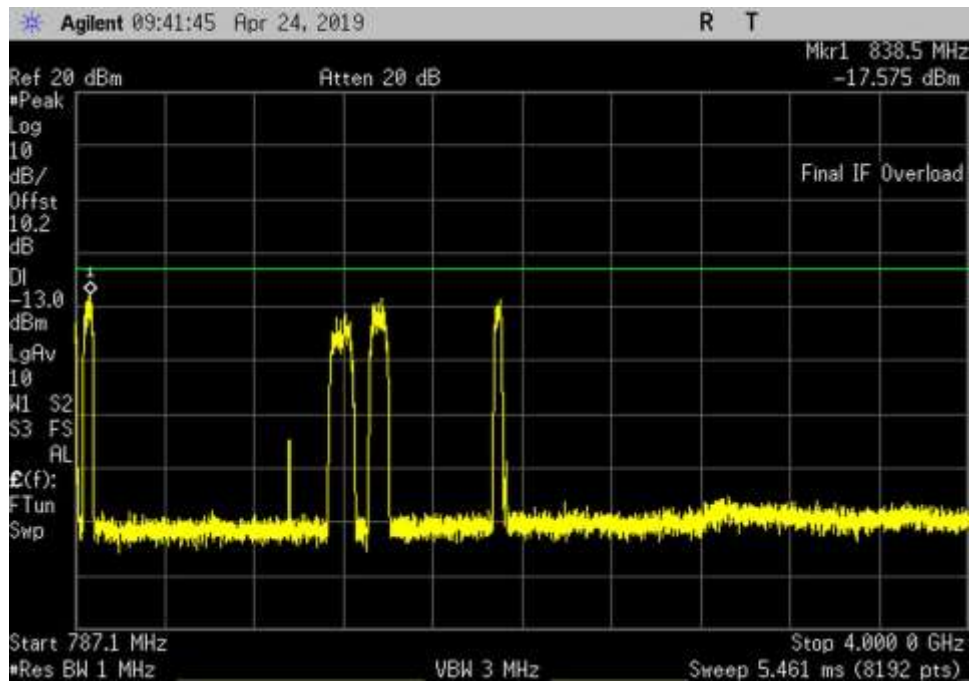
UL_776-787_AWGN_ 30- 775.9MHz_MC



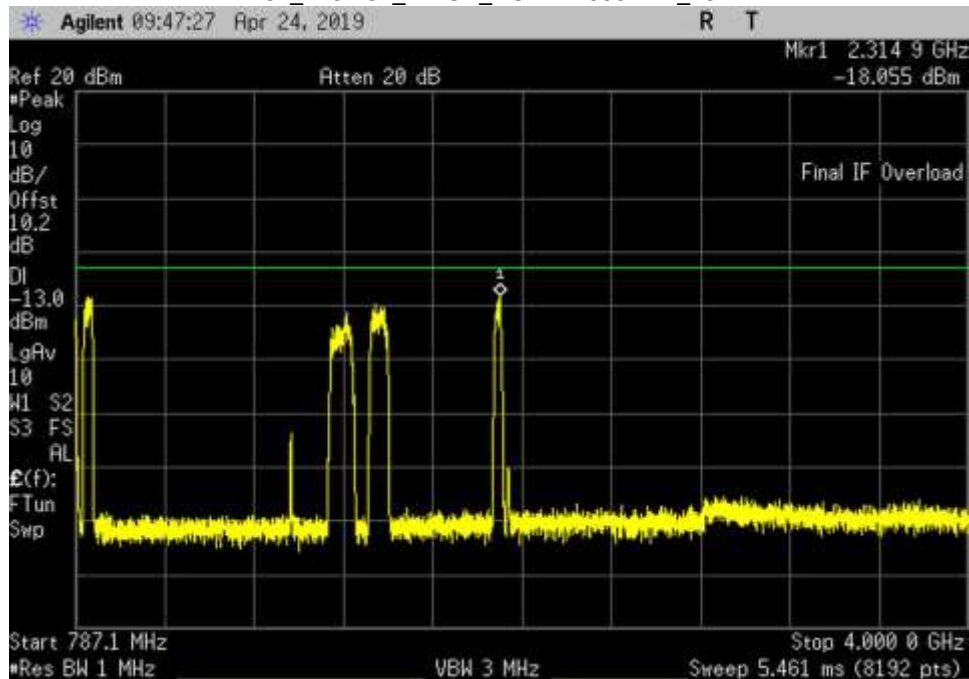
UL_776-787_AWGN_30-775.9MHz_HC



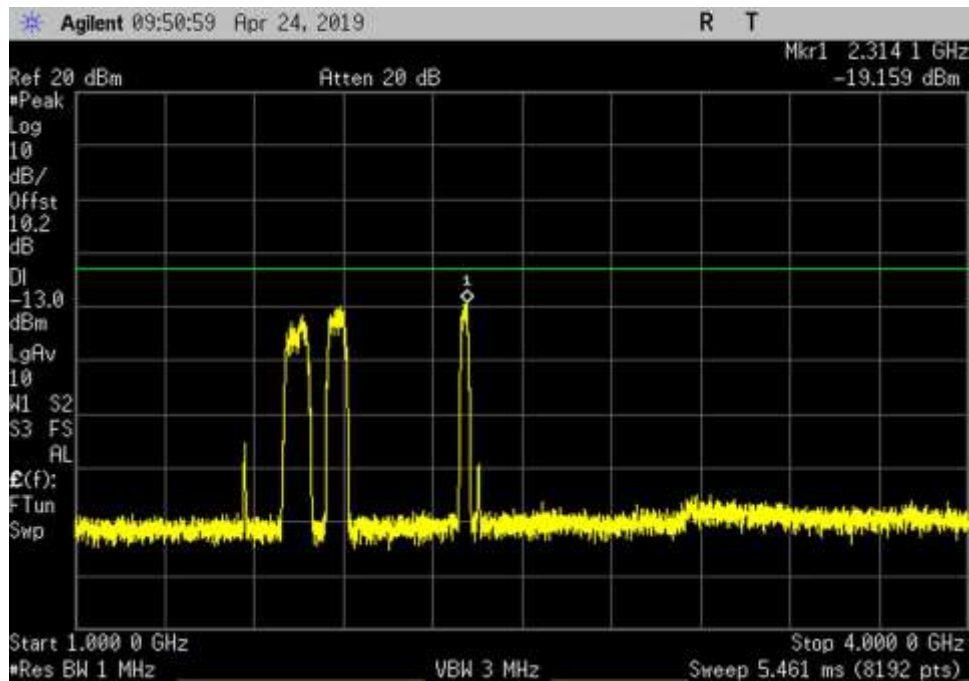
UL_776-787_AWGN_787.1-1000MHz_HC



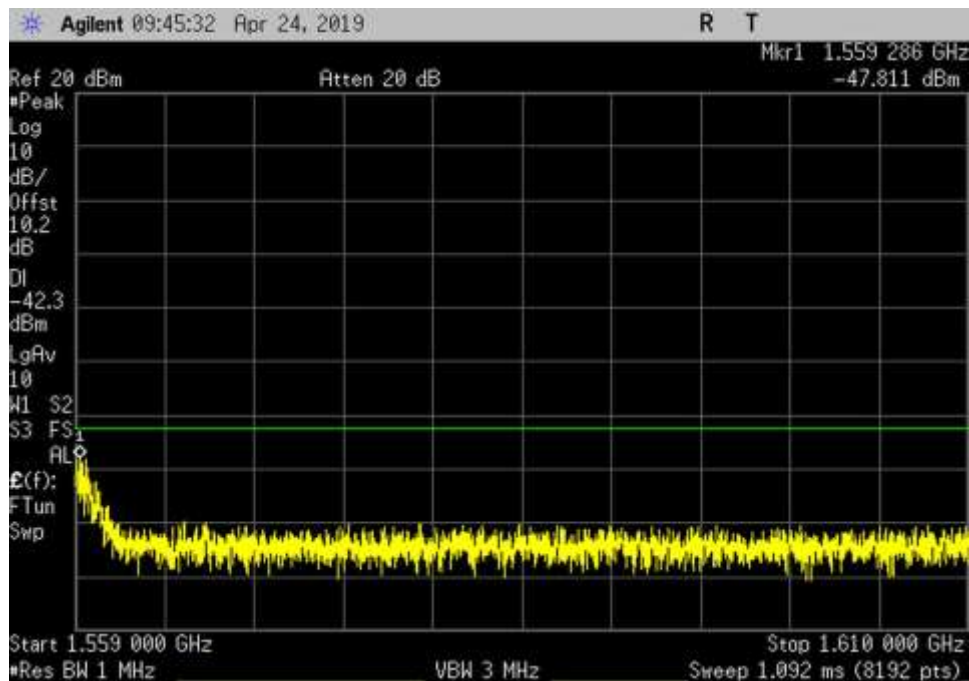
UL_776-787_AWGN_787.1- 4000MHz_LC



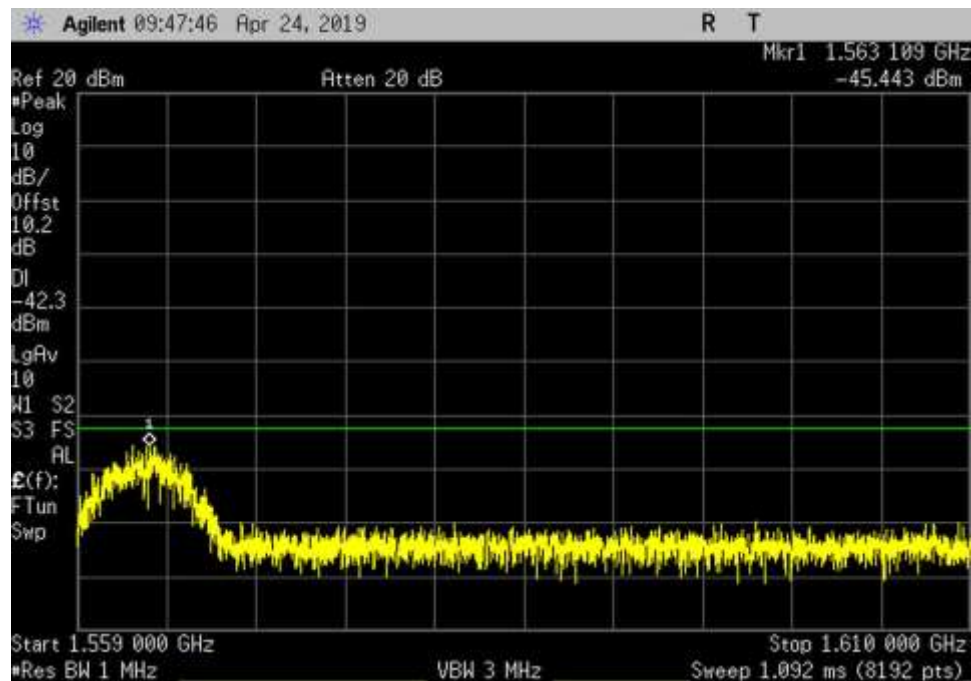
UL_776-787_AWGN_787.1- 4000MHz_MC



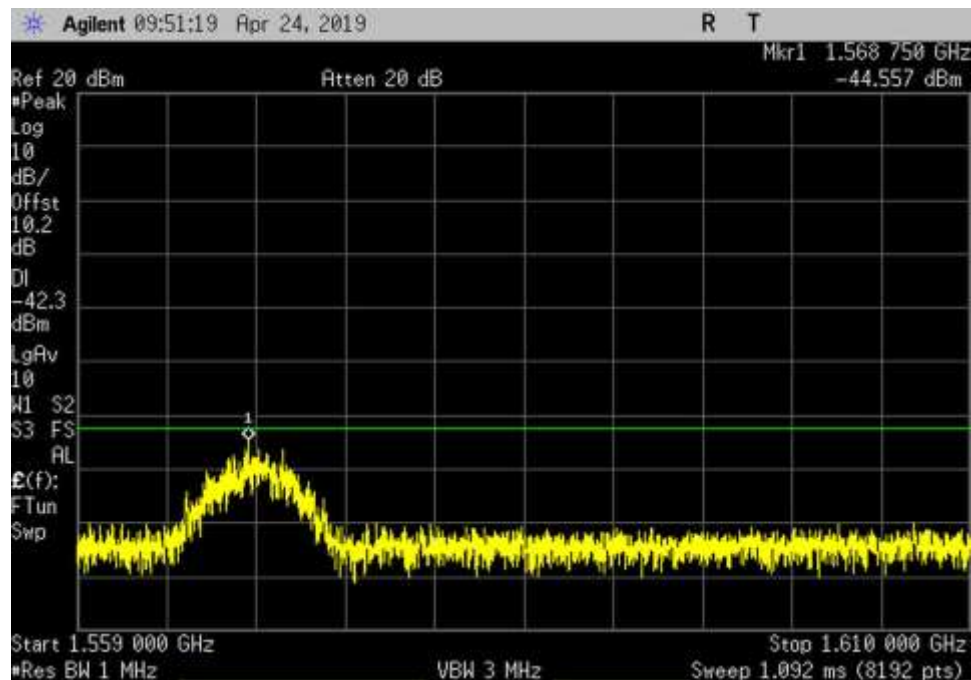
UL_776-787_AWGN_1000- 4000MHz_HC



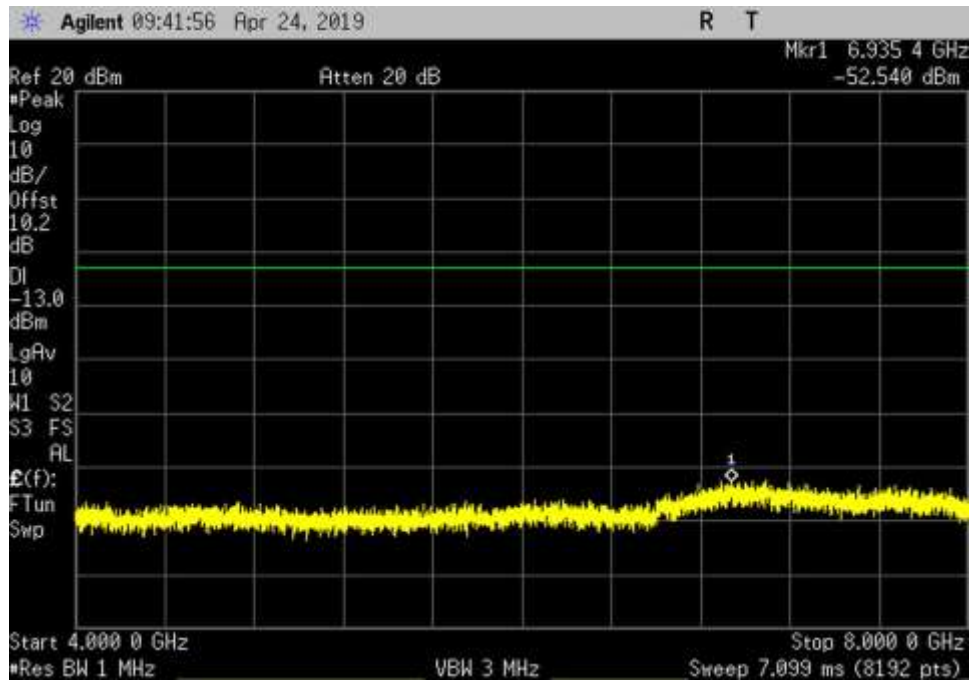
UL_776-787_AWGN_1559- 1610MHz_LC



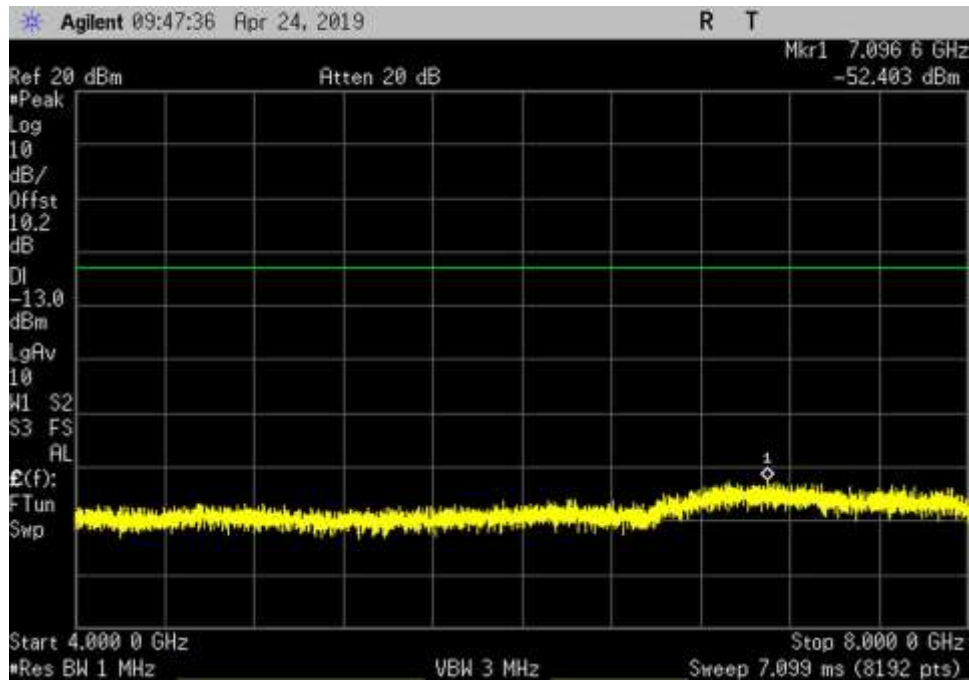
UL_776-787_AWGN_1559-1610MHz_MC



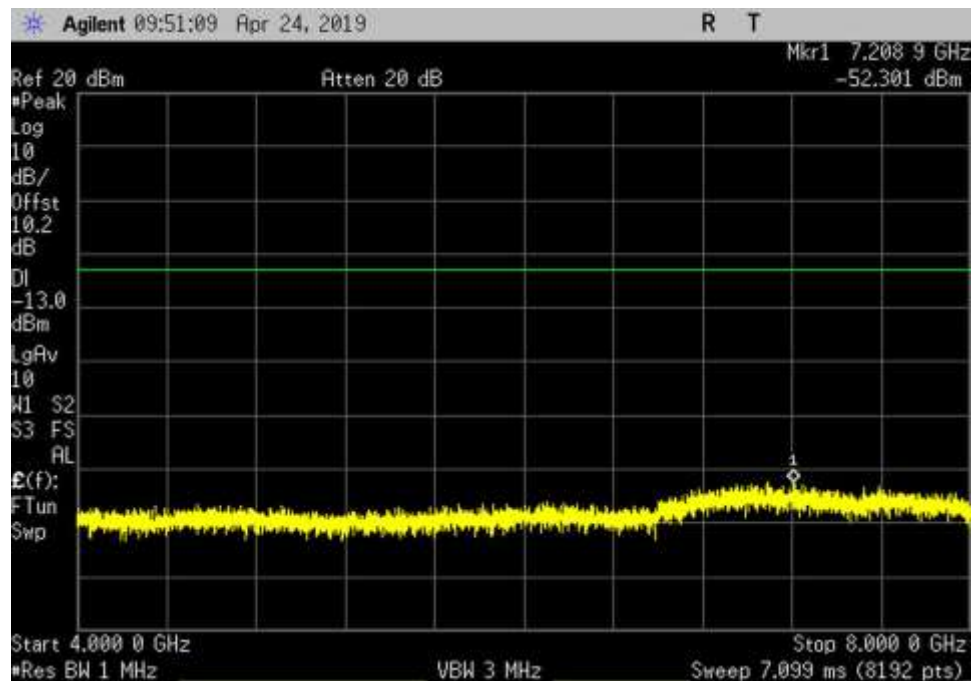
UL_776-787_AWGN_1559-1610MHz_HC



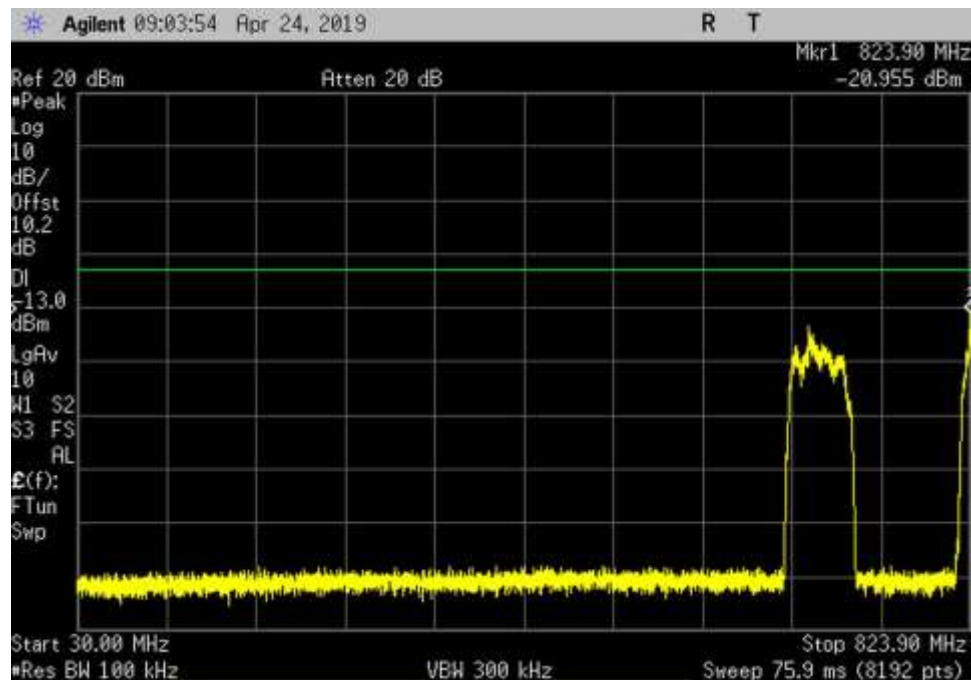
UL_776-787_AWGN_4000-8000MHz_LC



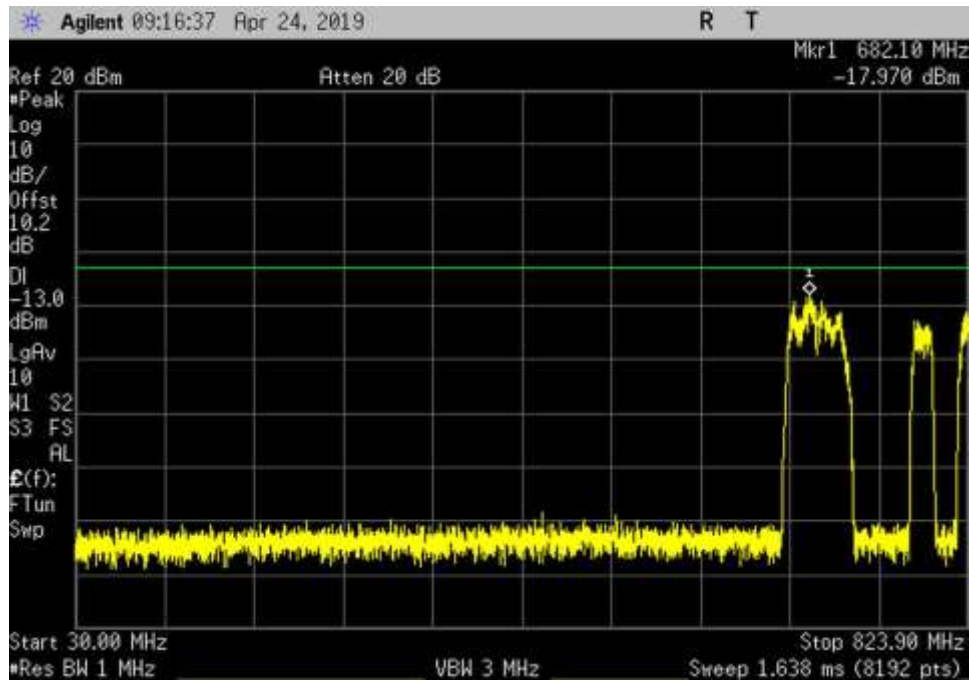
UL_776-787_AWGN_4000-8000MHz_MC



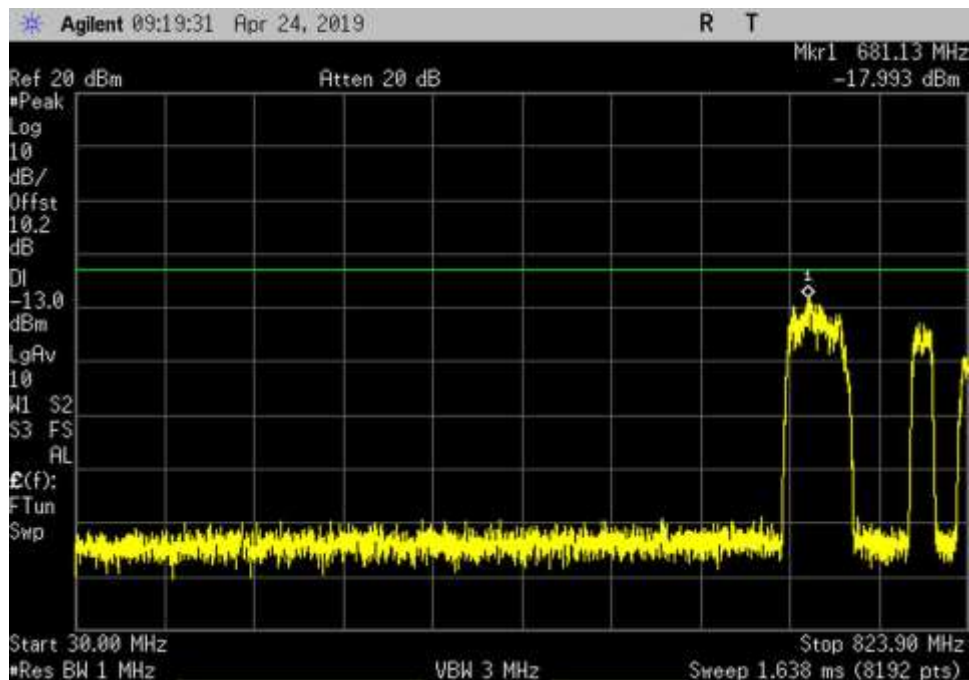
UL_776-787_AWGN_ 4000- 8000MHz_HC



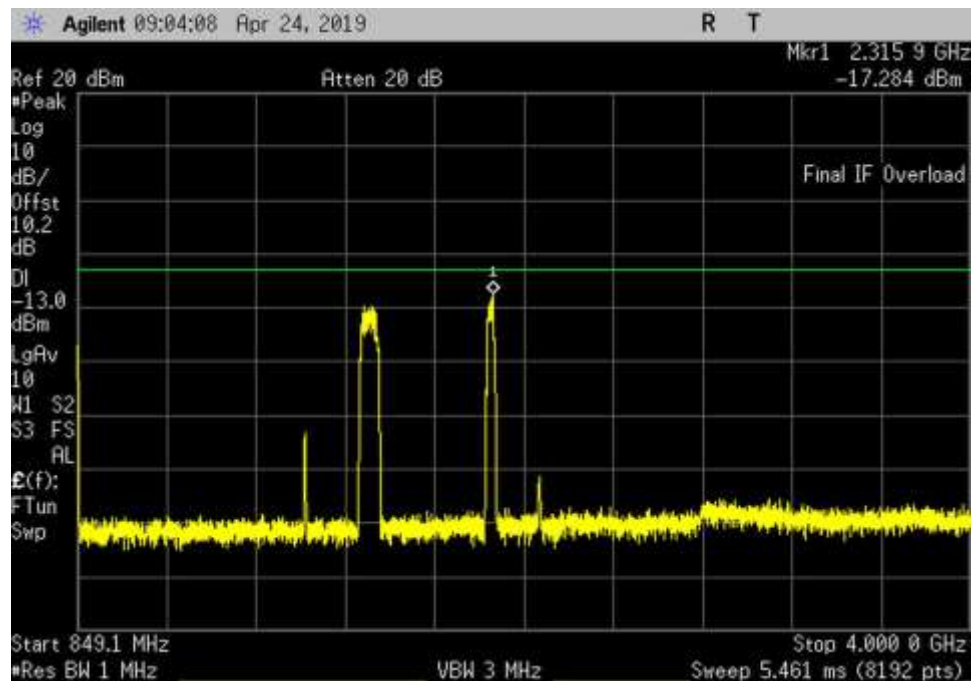
UL_824-849_AWGN_ 30- 823.9MHz_LC



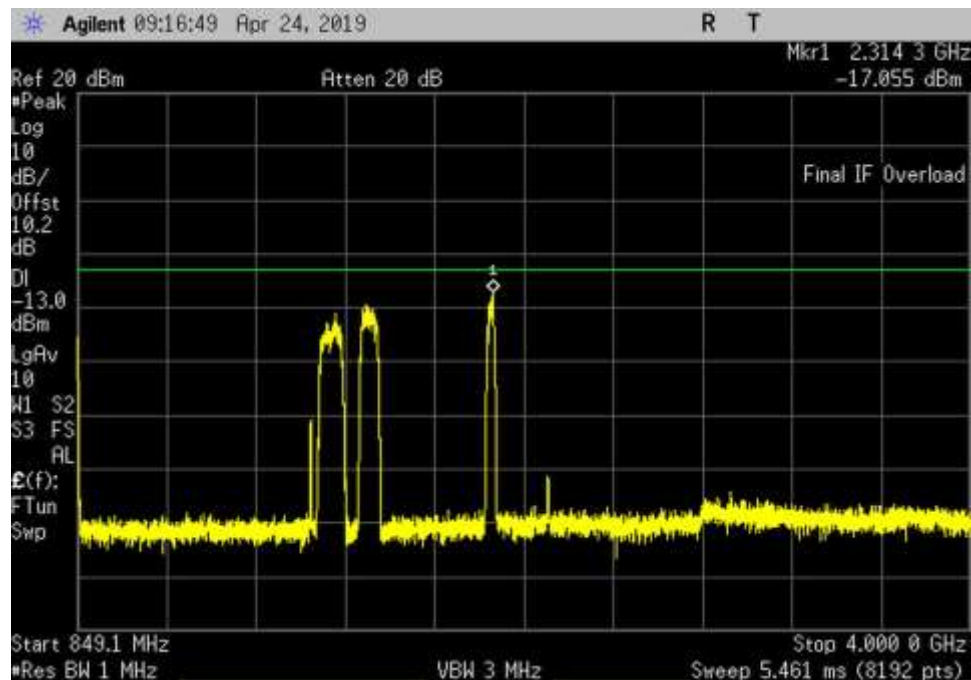
UL_824-849_AWGN_30- 823.9MHz_MC



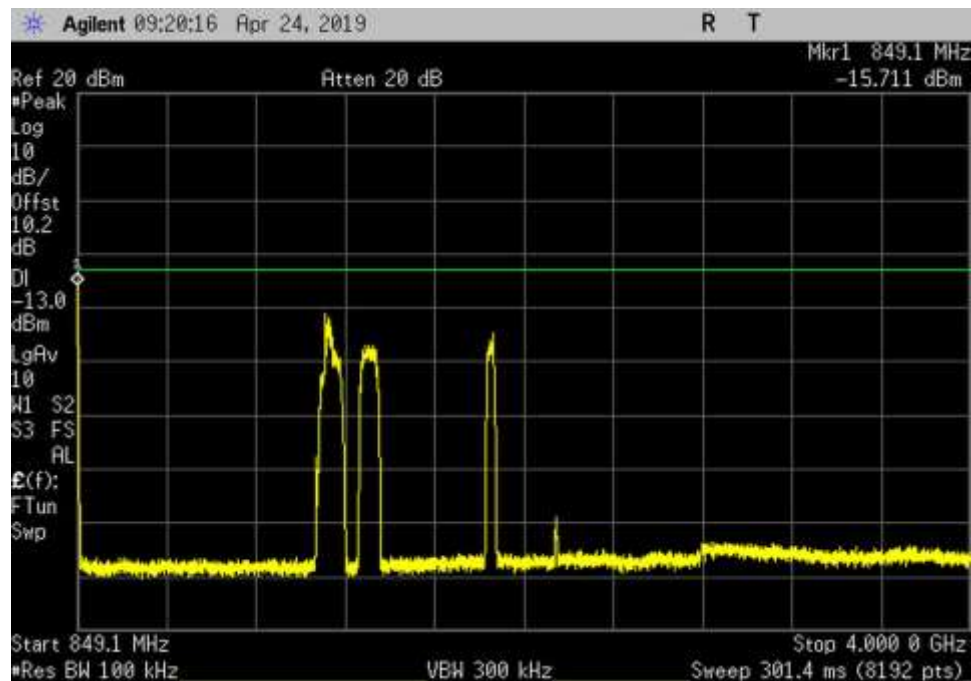
UL_824-849_AWGN_30- 823.9MHz_HC



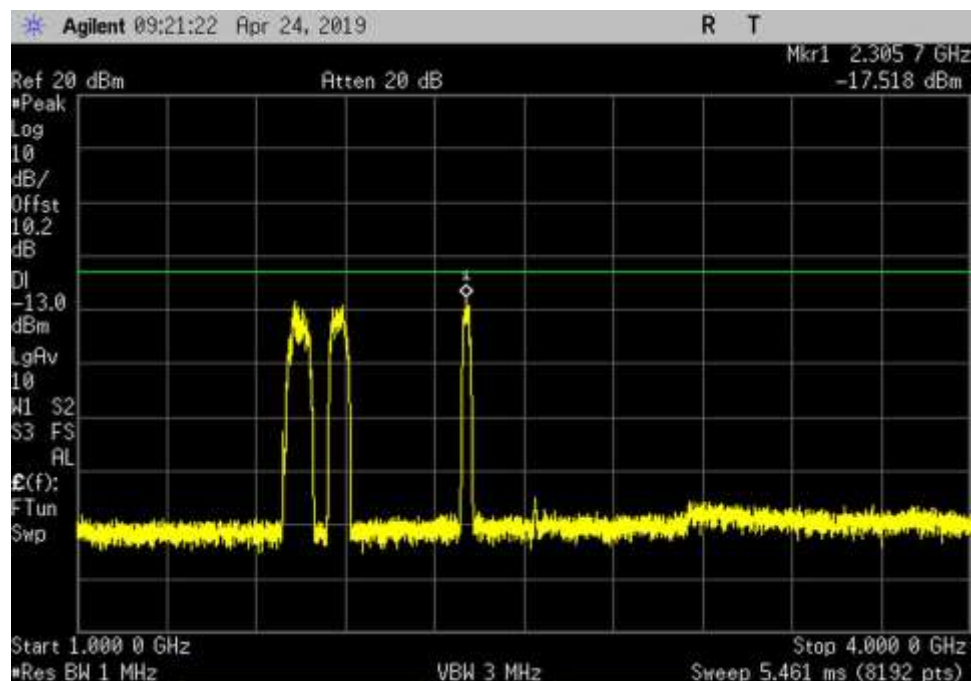
UL_824-849_AWGN_849.1-4000MHz_LC



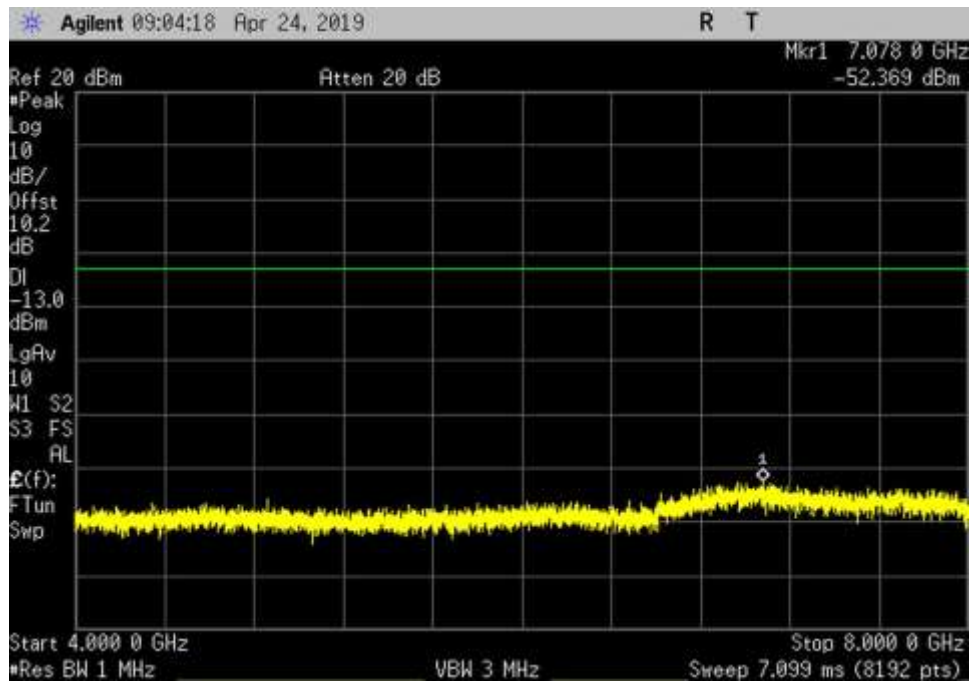
UL_824-849_AWGN_849.1-4000MHz_MC



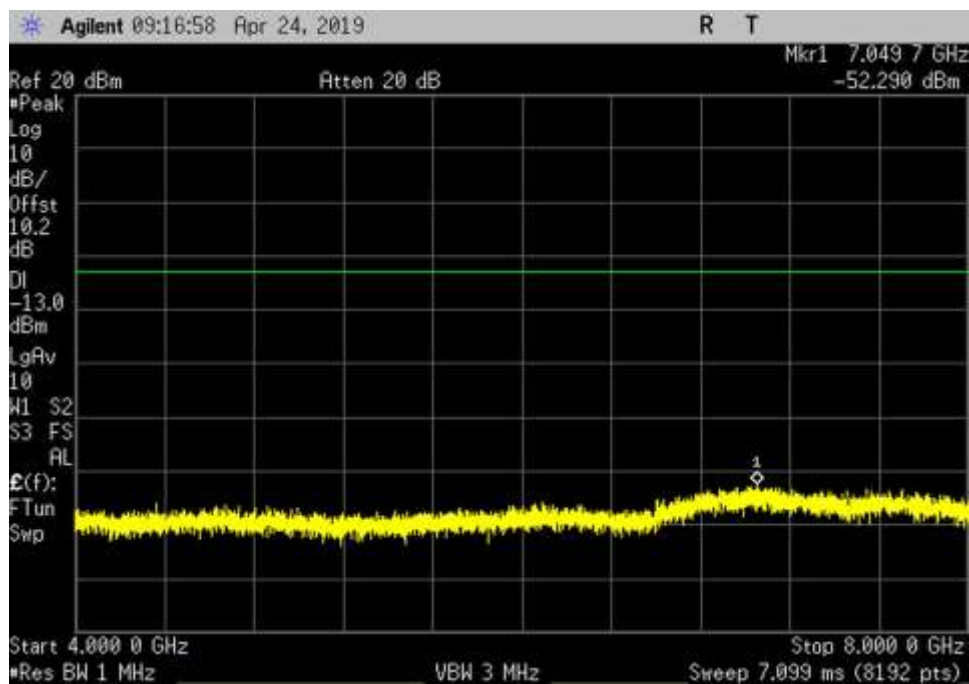
UL_824-849_AWGN_ 849.1- 4000MHz_HC



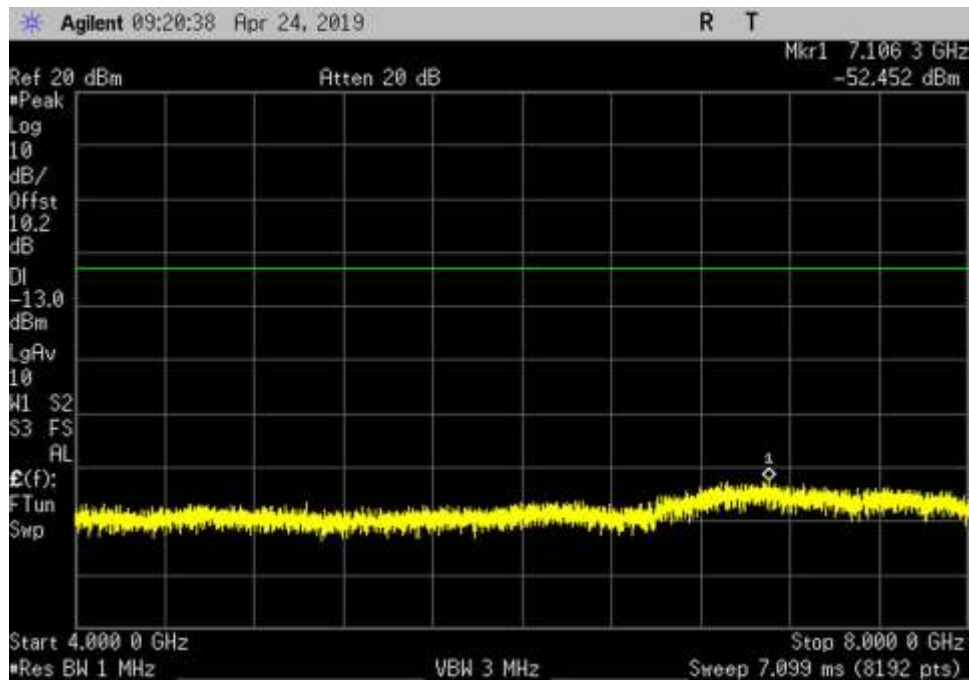
UL_824-849_AWGN_ 1000- 4000MHz_HC



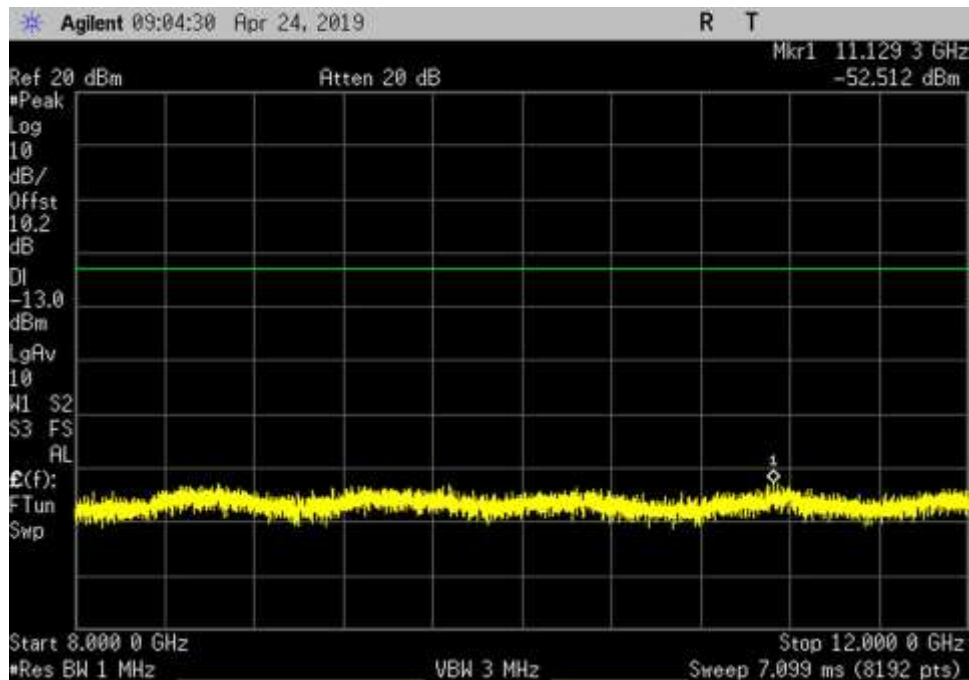
UL_824-849_AWGN_4000-8000MHz_LC



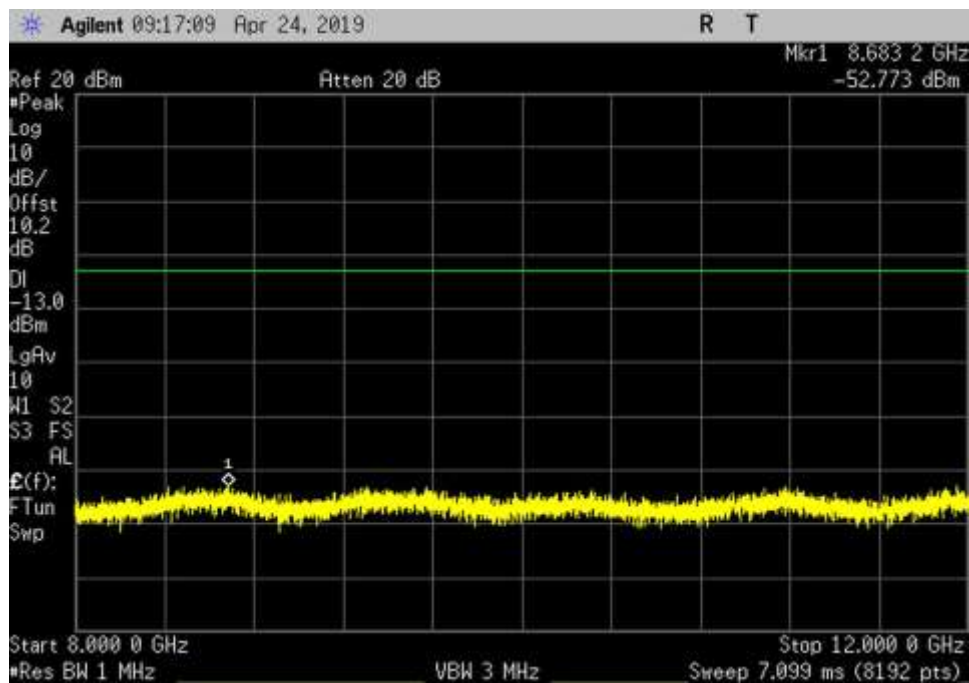
UL_824-849_AWGN_4000-8000MHz_MC



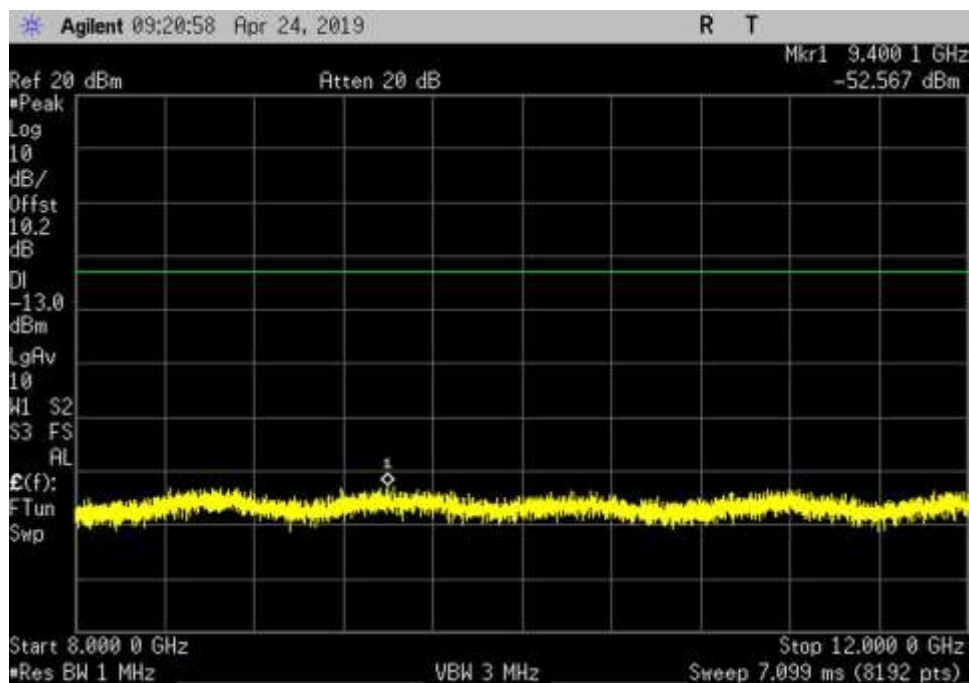
UL_824-849_AWGN_4000- 8000MHz_HC



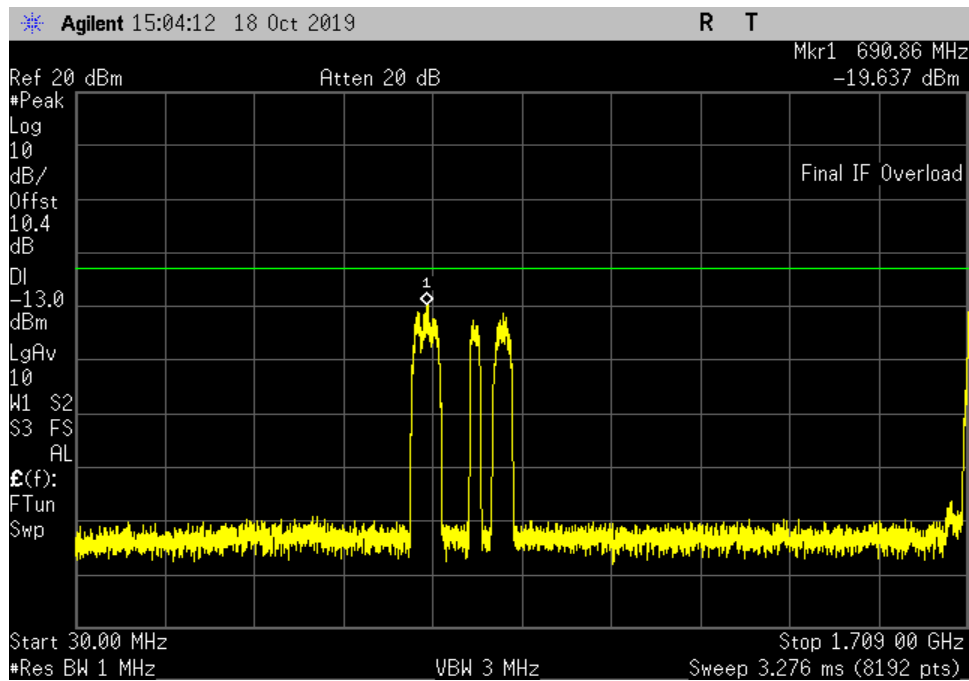
UL_824-849_AWGN_8000- 12000MHz_LC



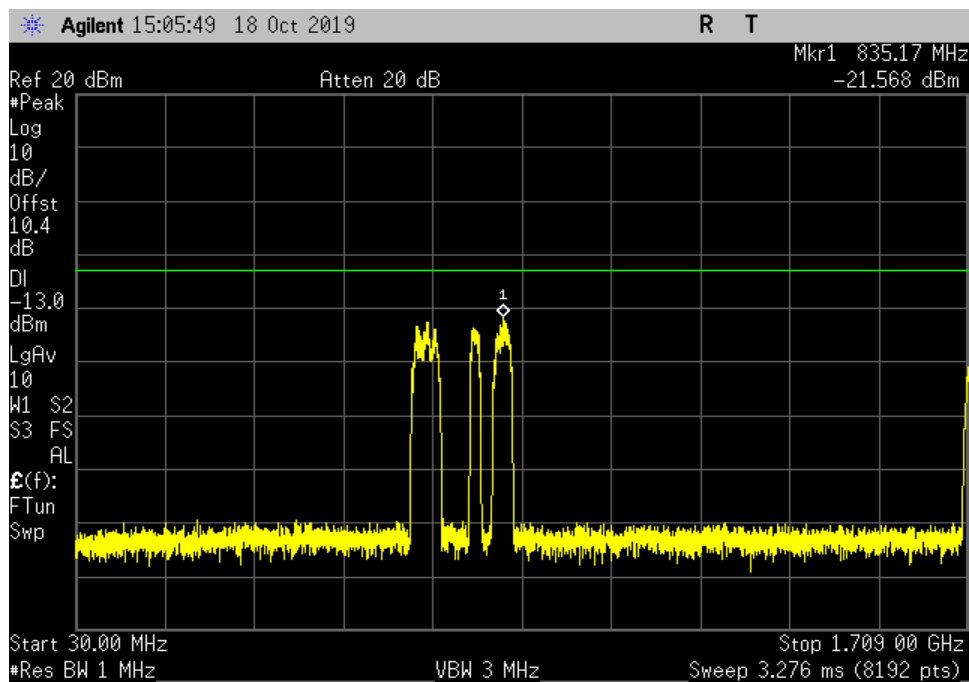
UL_824-849_AWGN_8000-12000MHz_MC



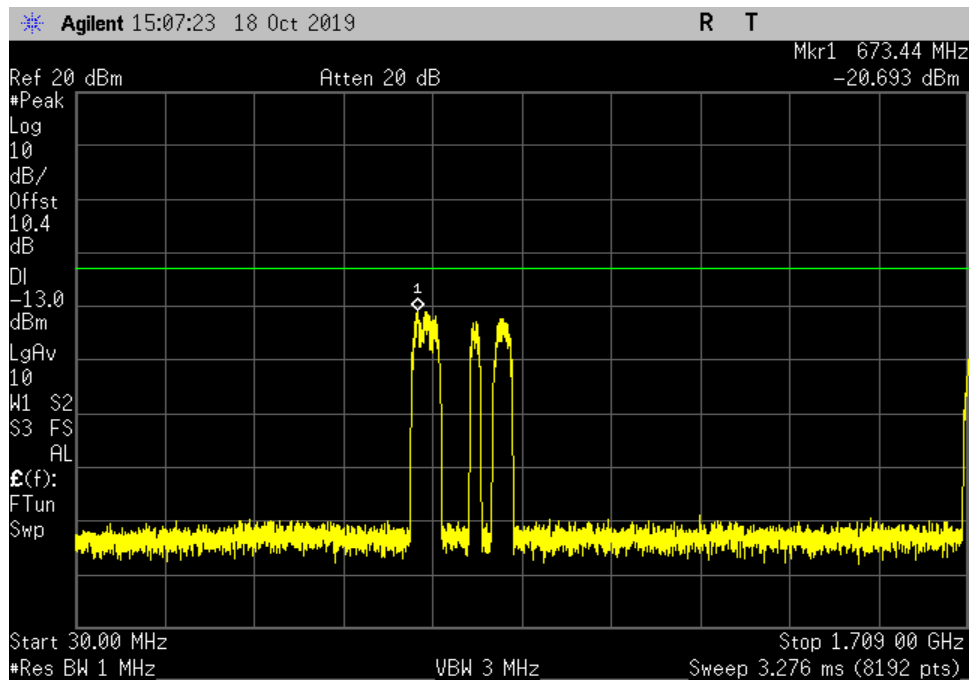
UL_824-849_AWGN_8000-12000MHz_HC



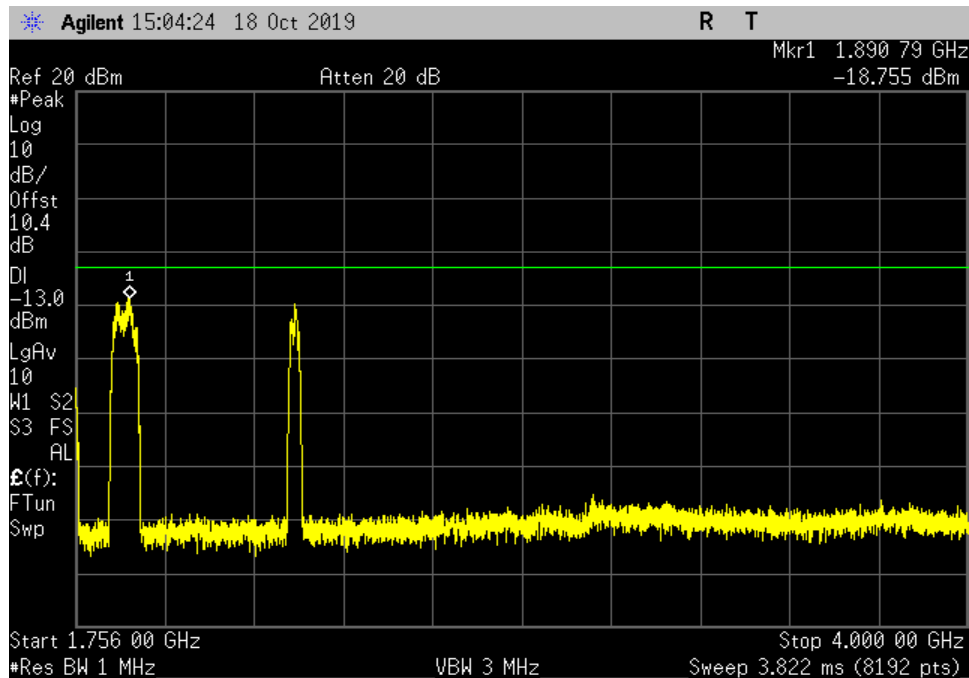
UL_1710-1755_AWGN_30-1709MHz_LC



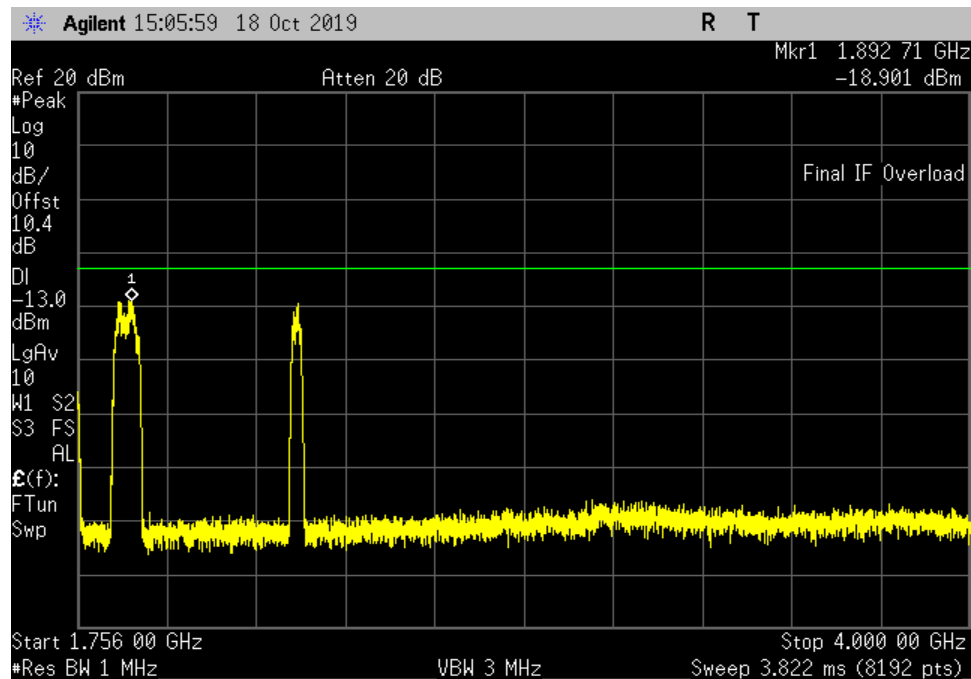
UL_1710-1755_AWGN_30-1709MHz_MC



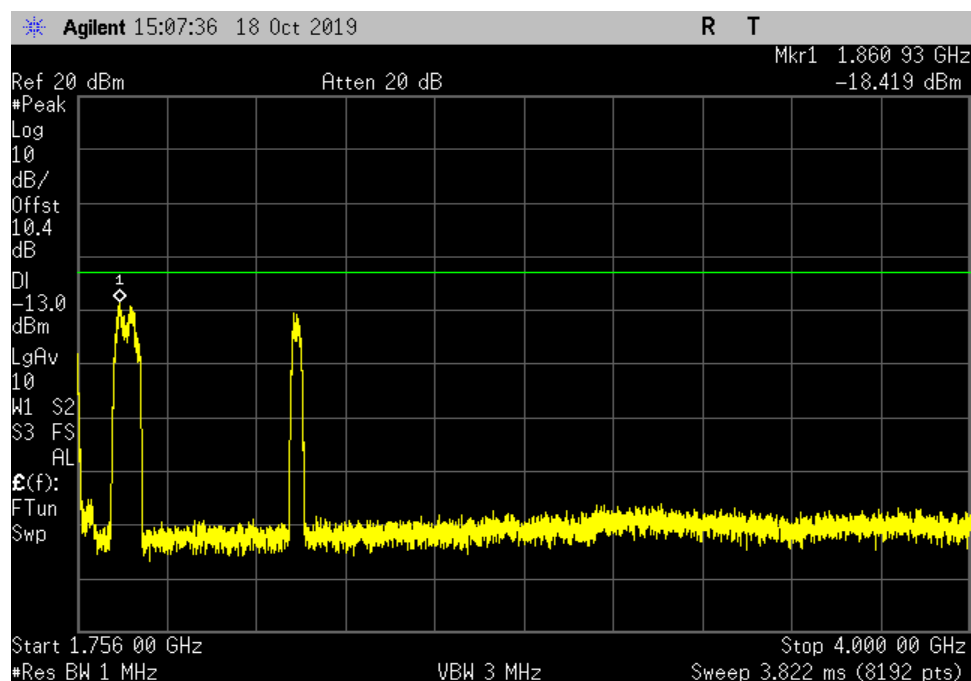
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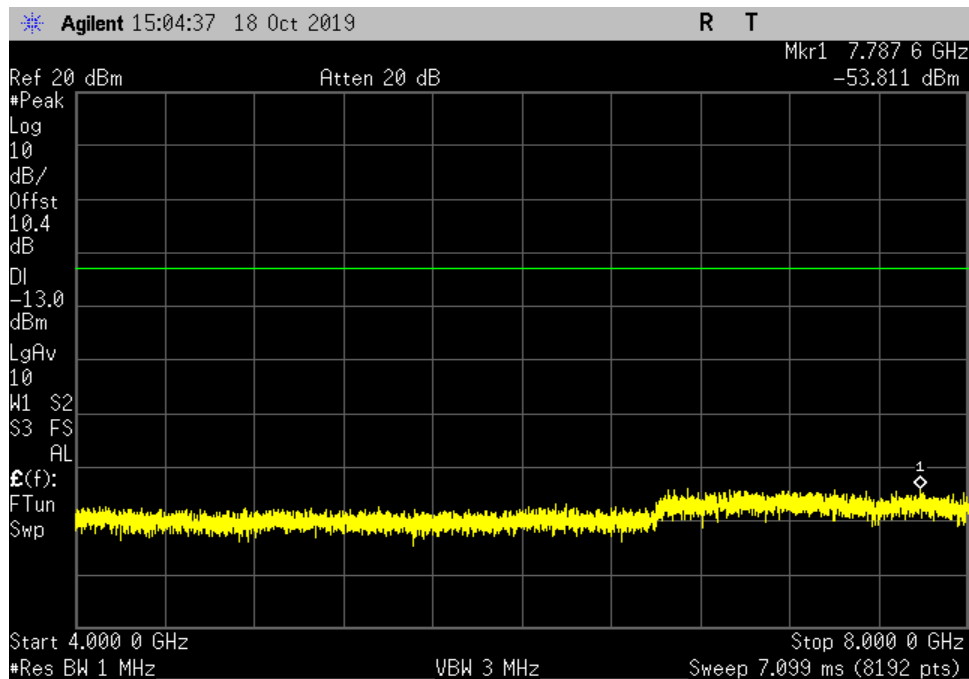
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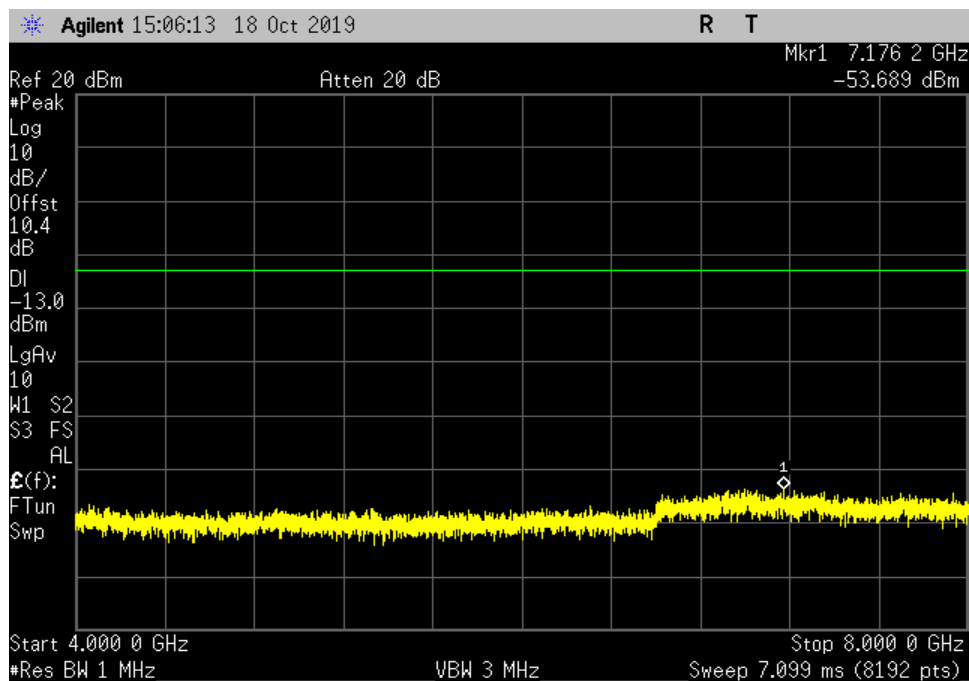
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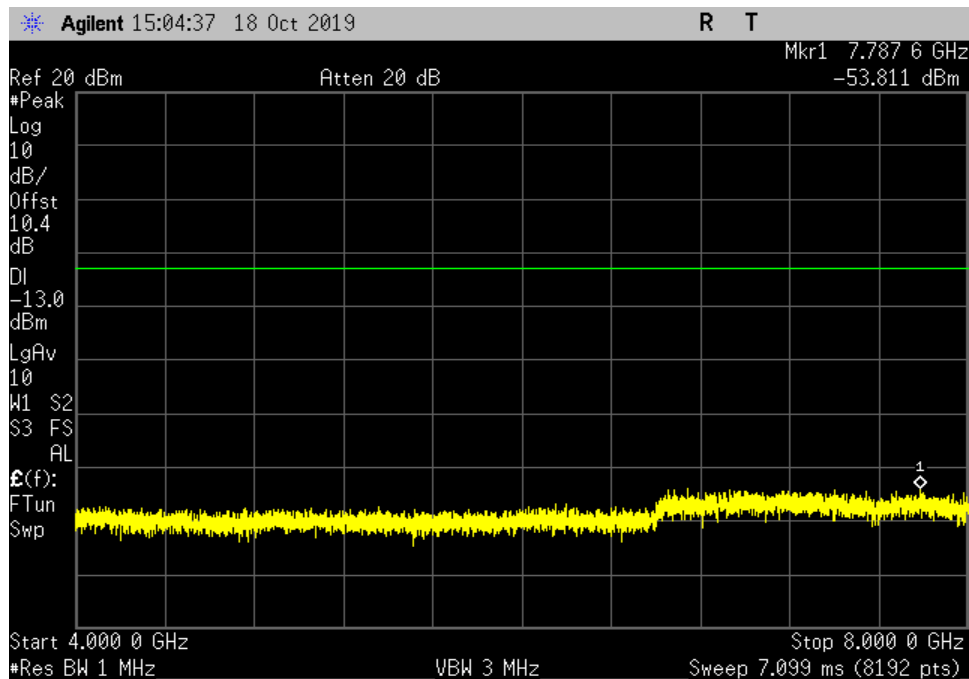
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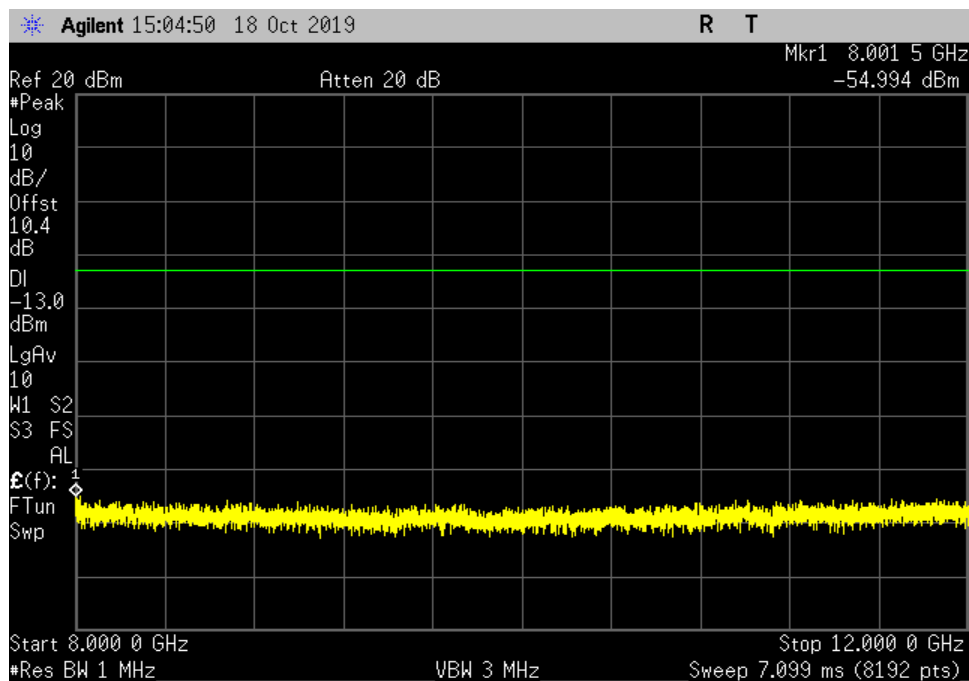
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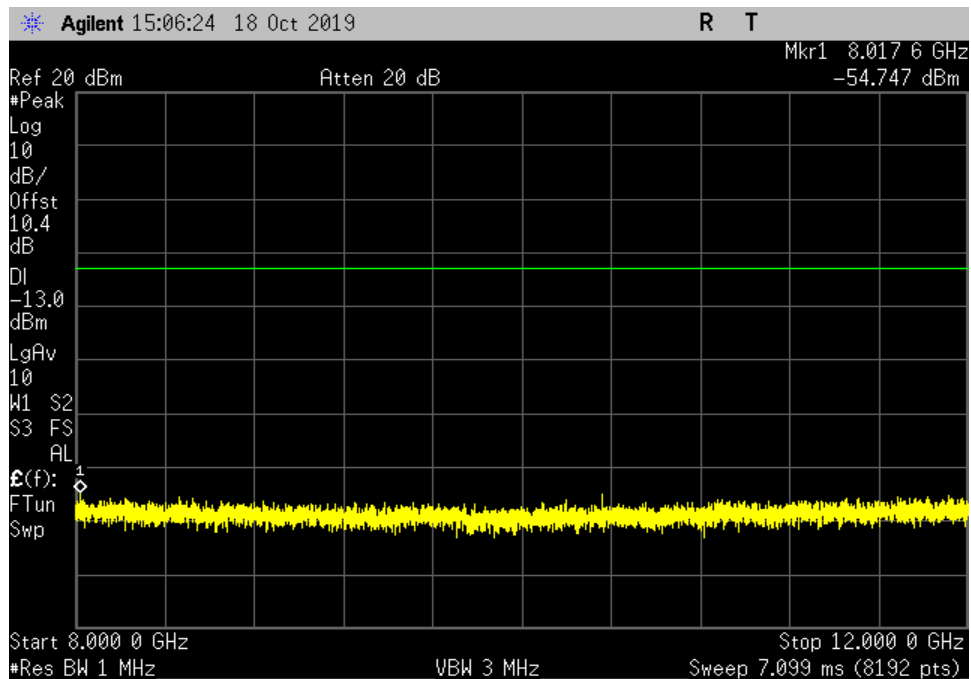
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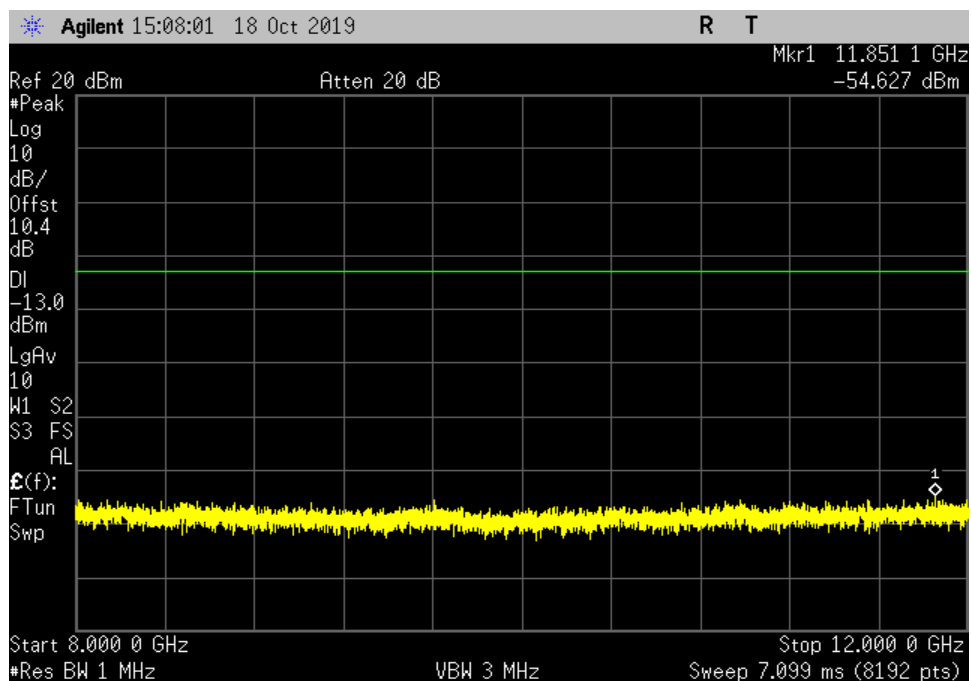
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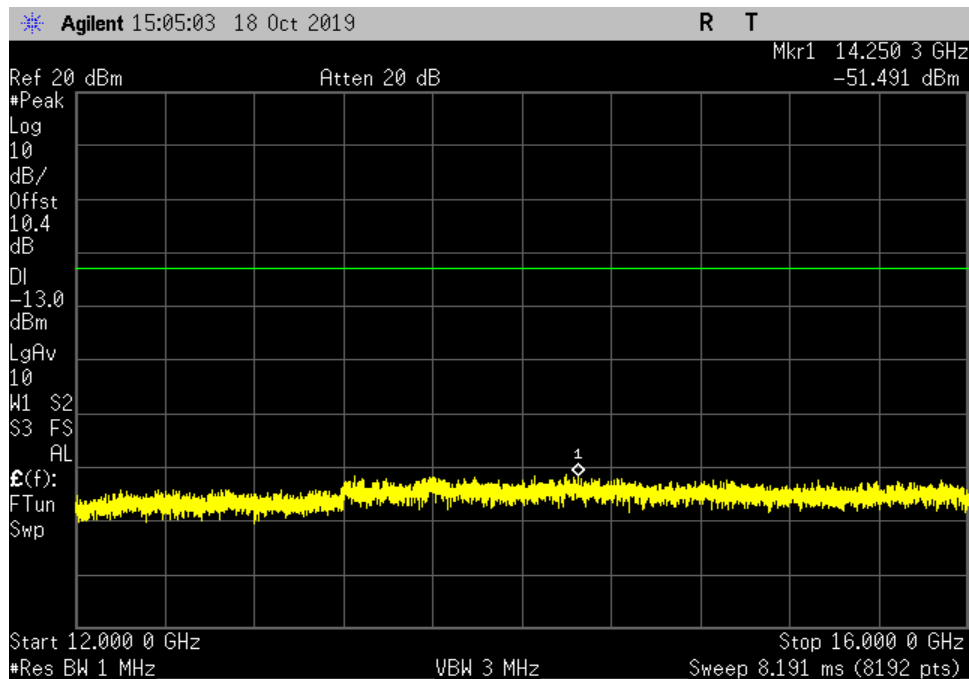
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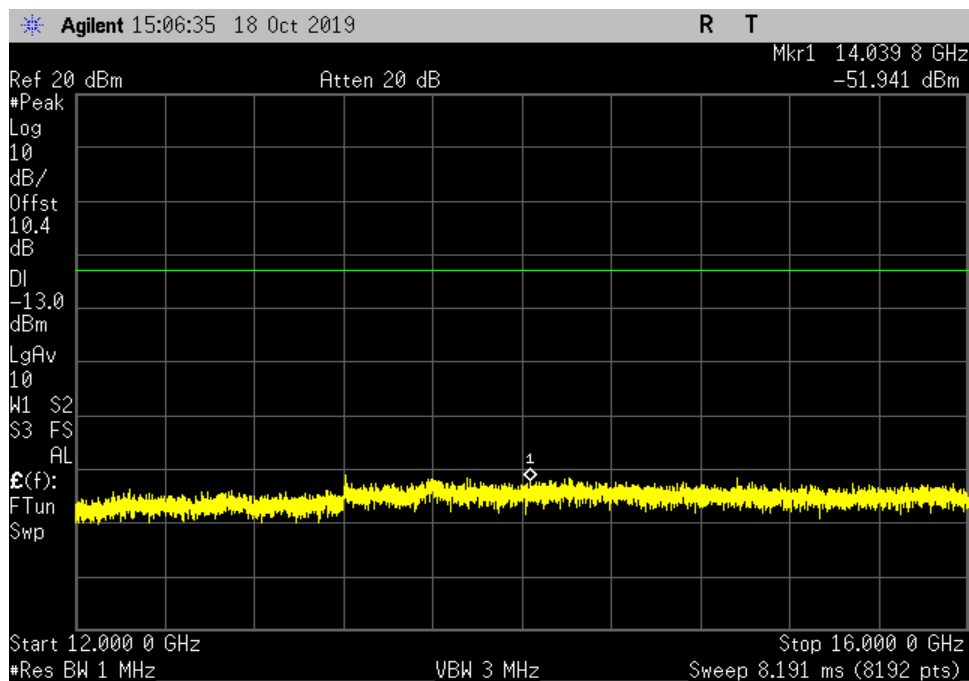
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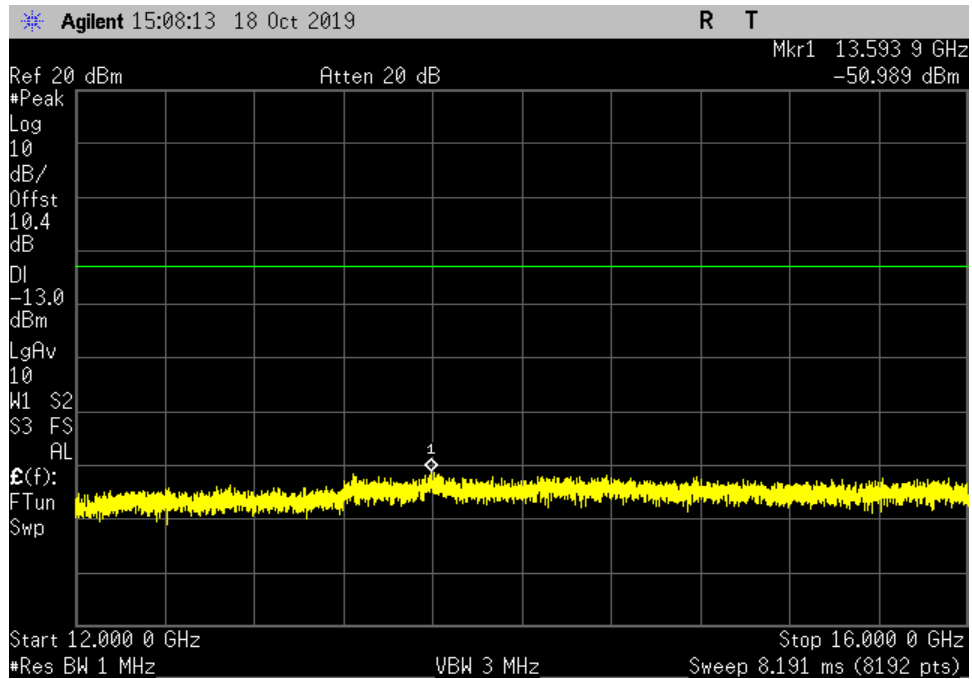
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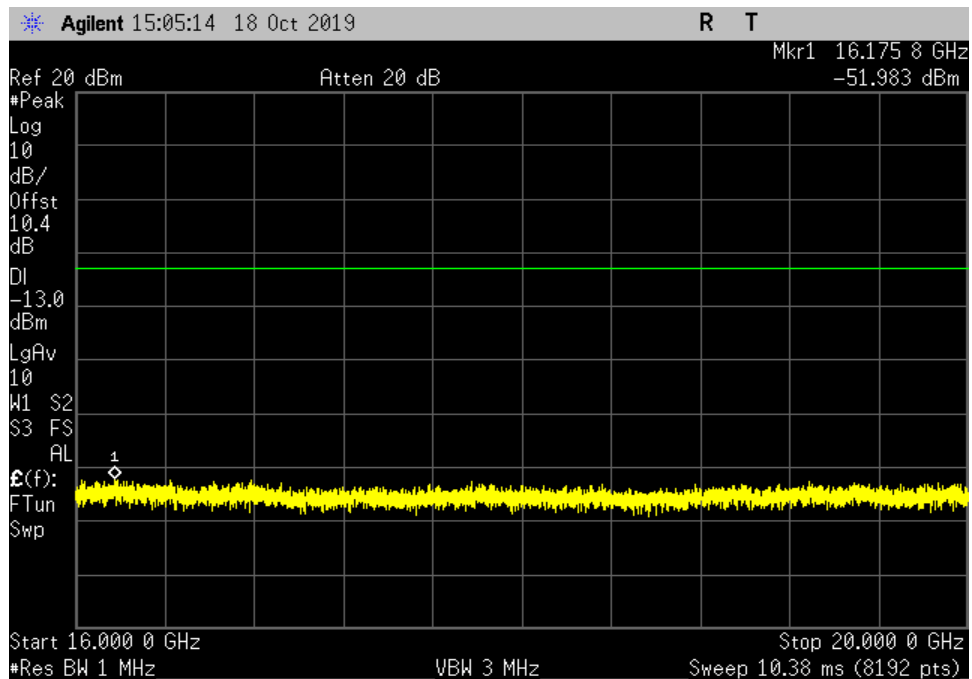
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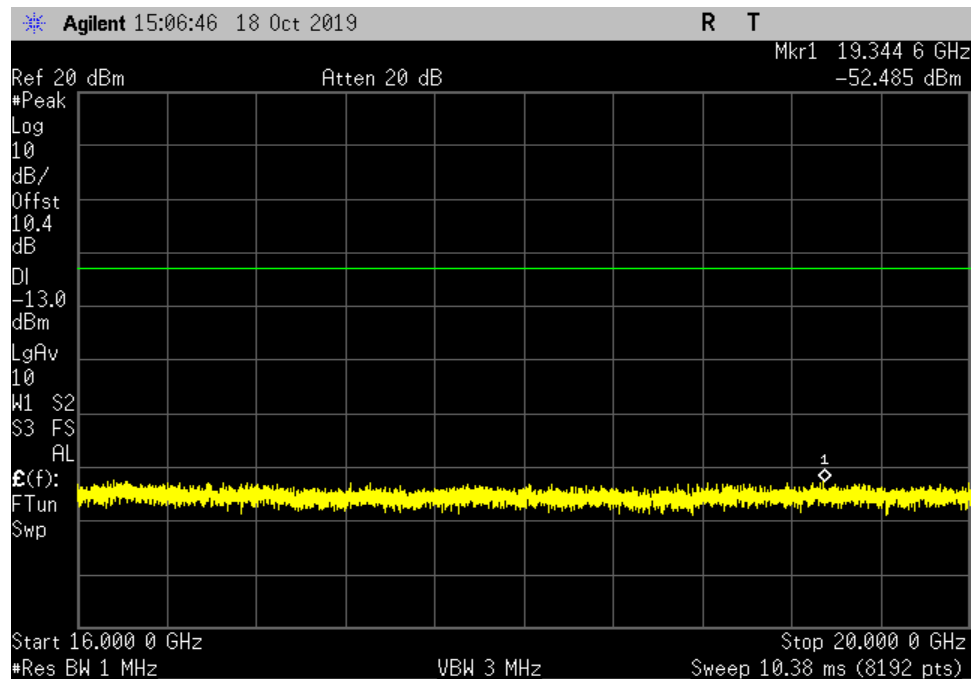
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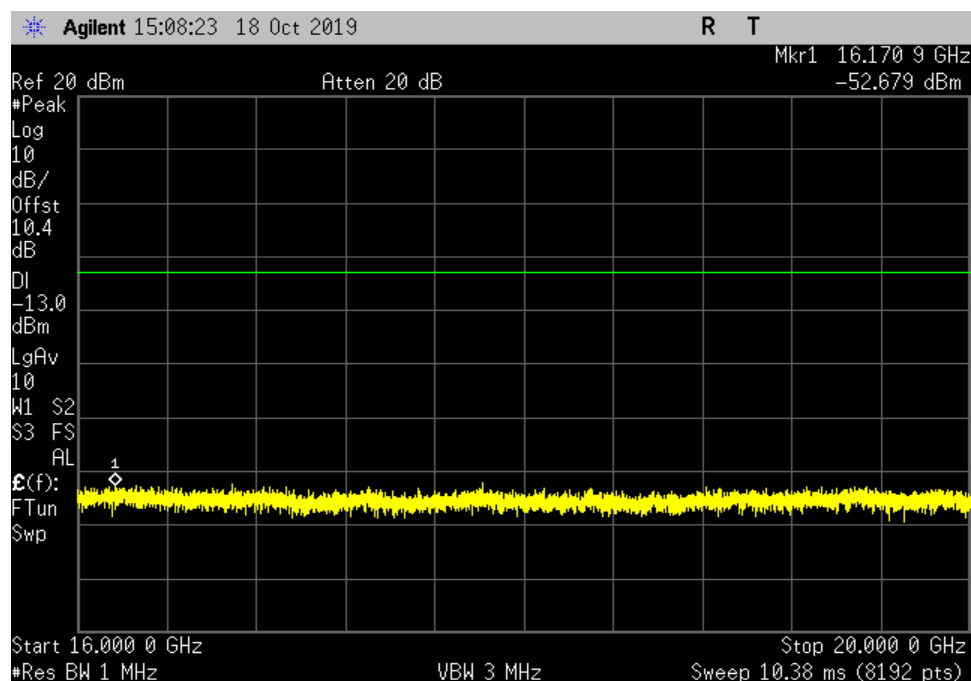
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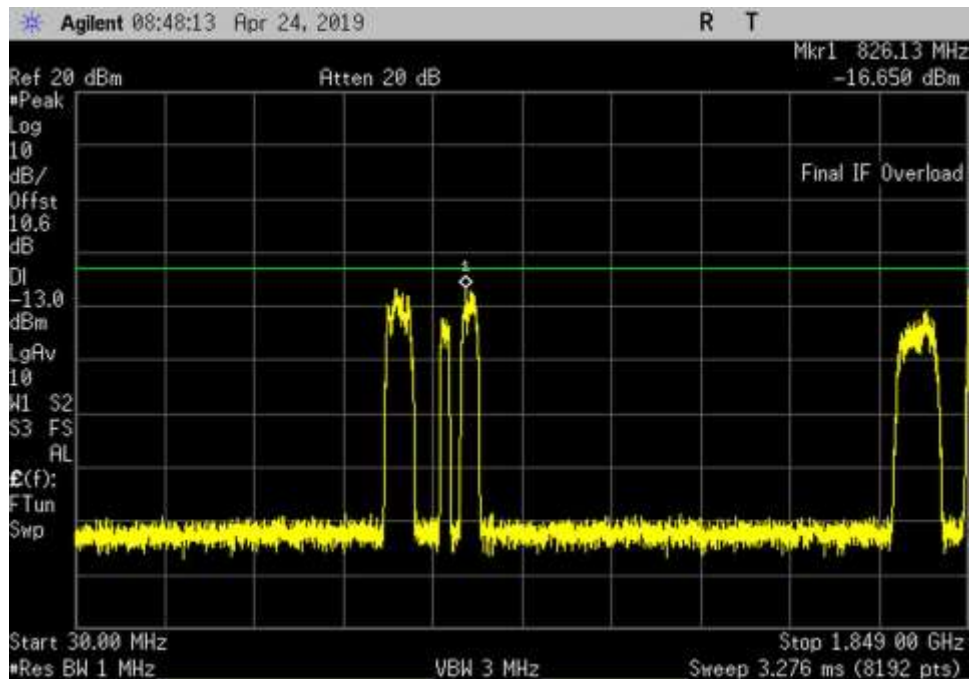
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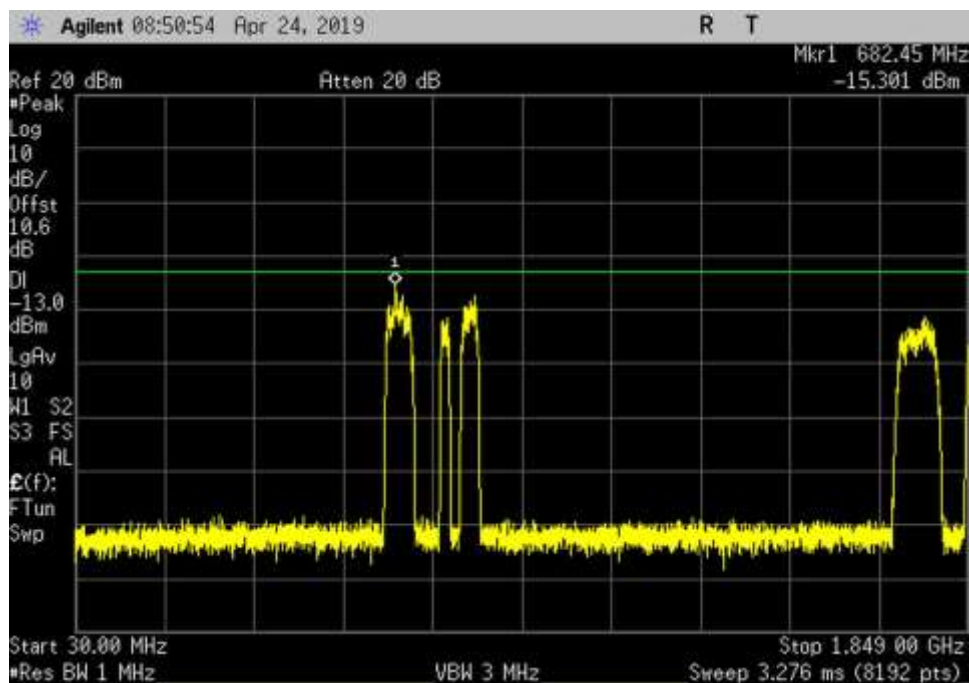
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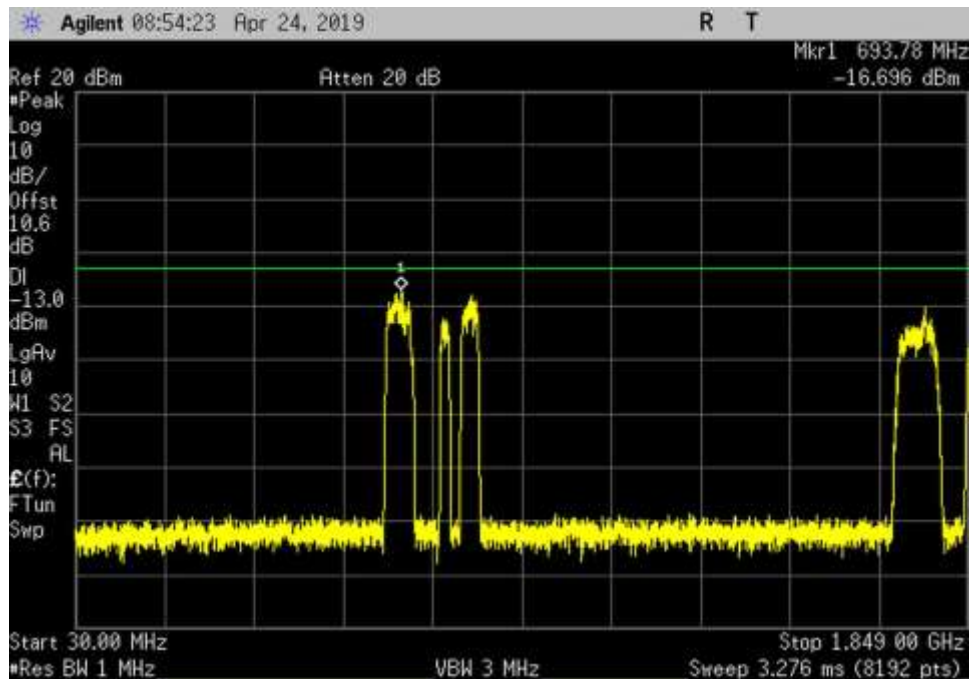
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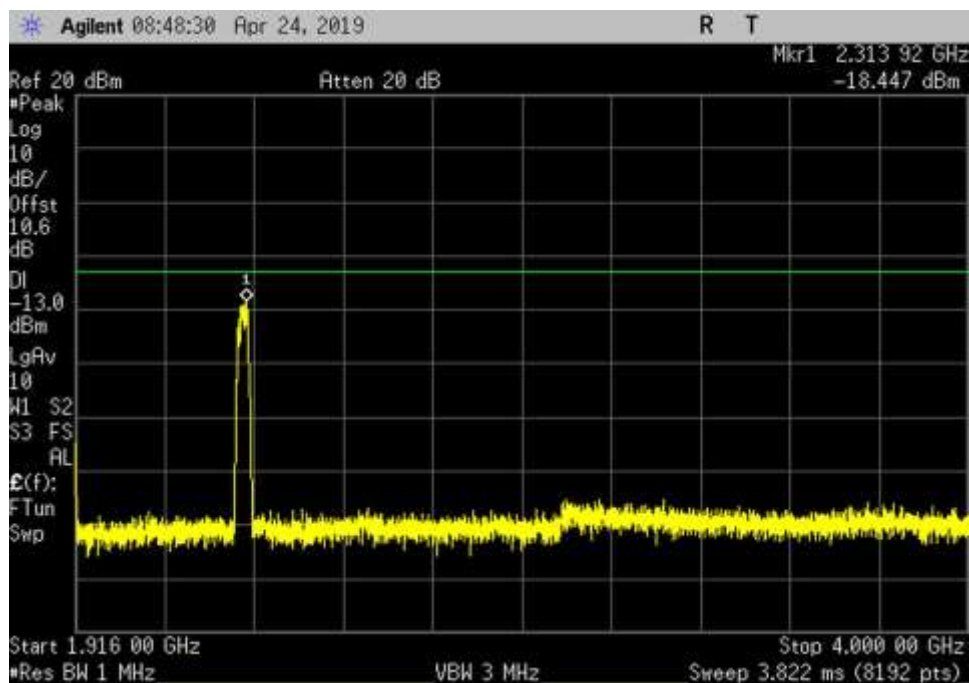
UL_1850-1915_AWGN_30-1849MHz_LC



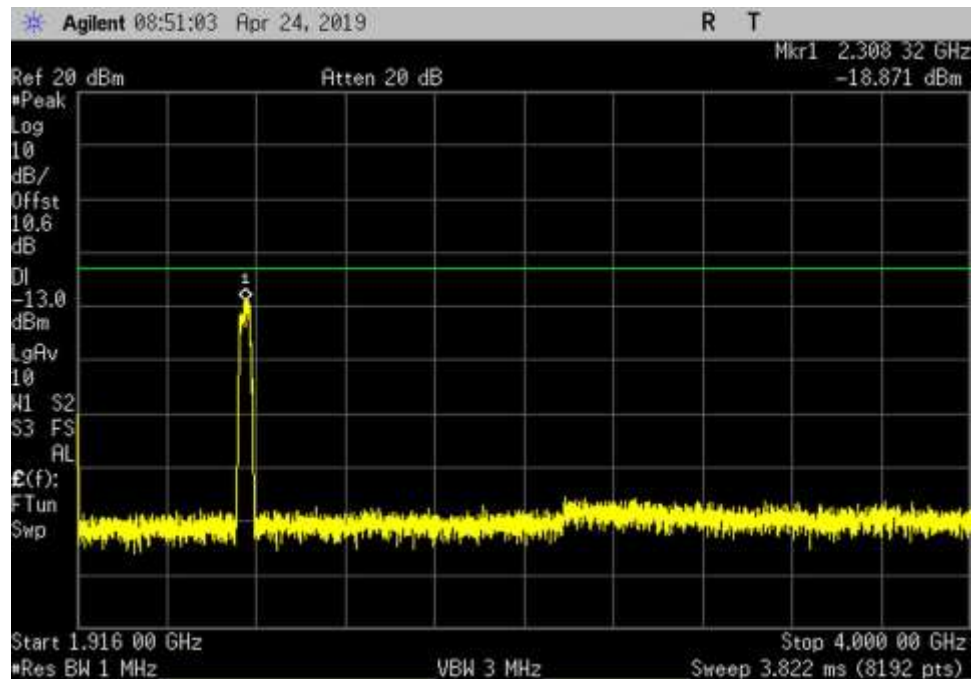
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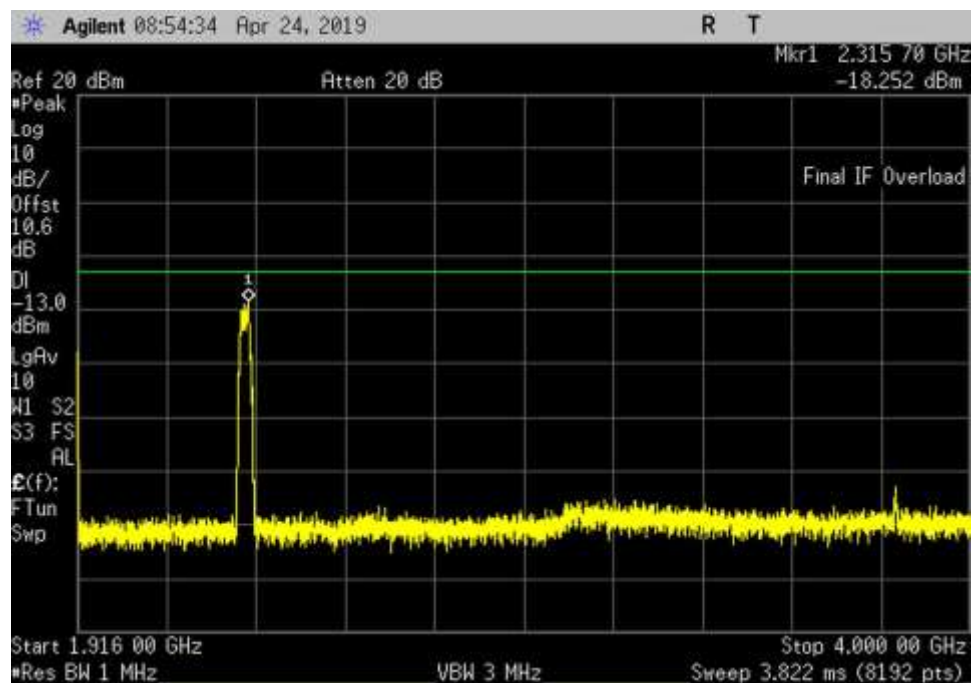
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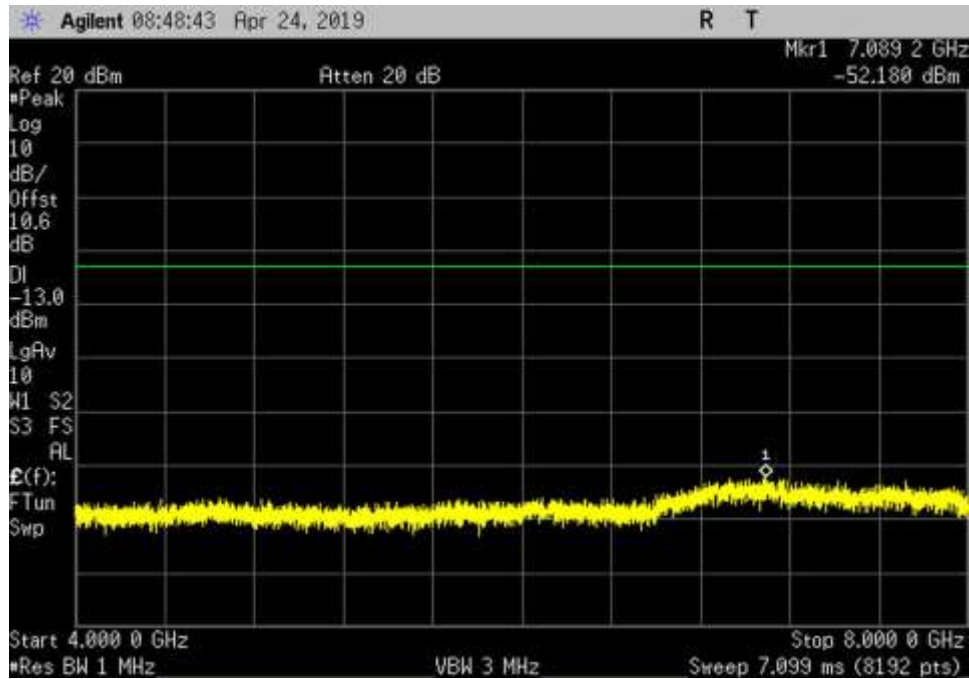
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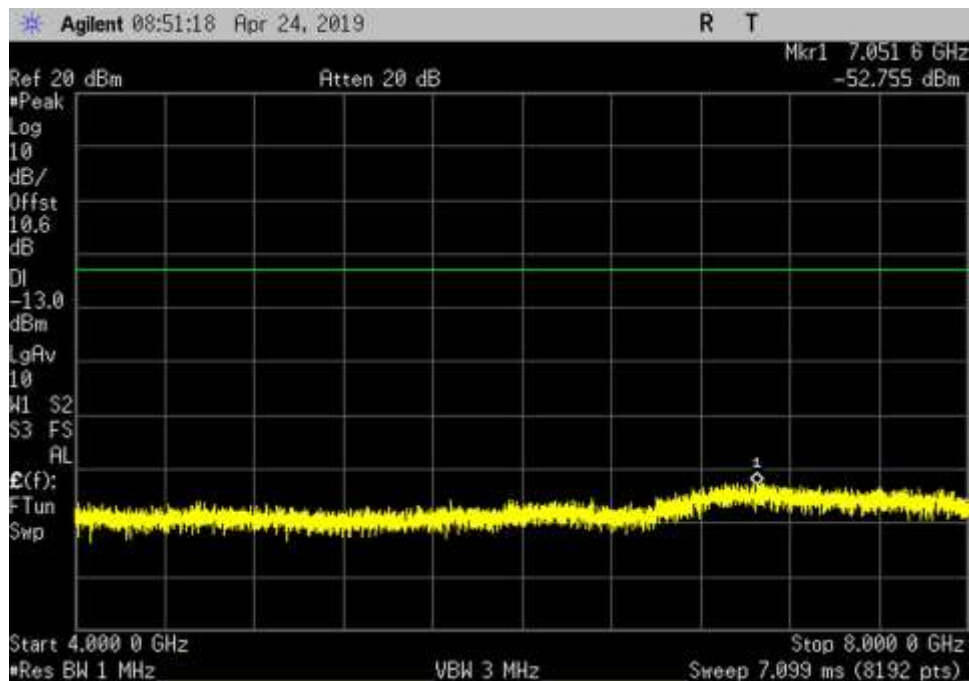
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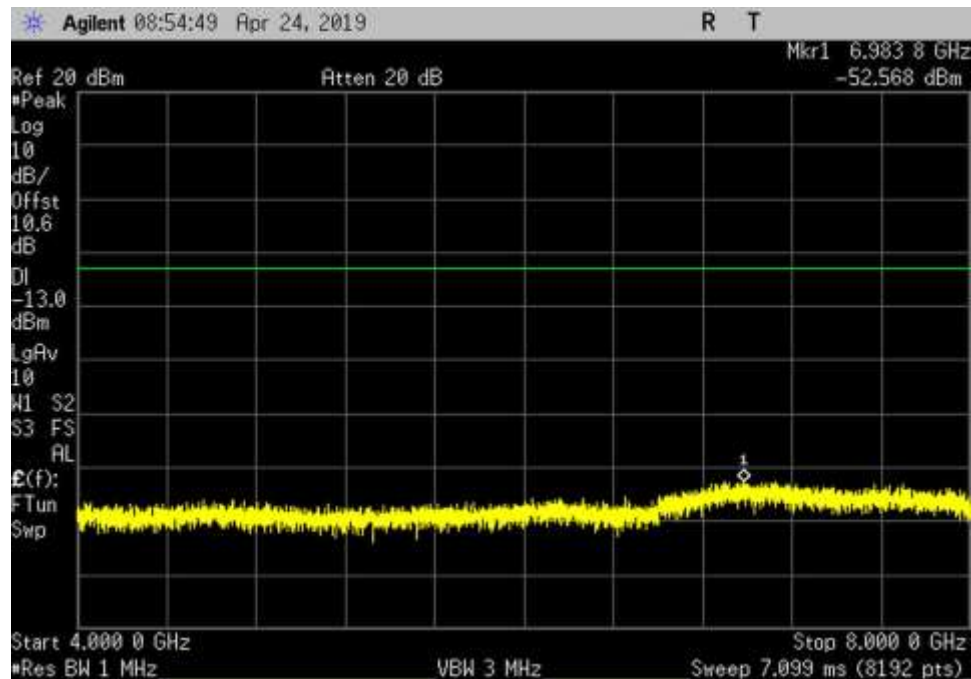
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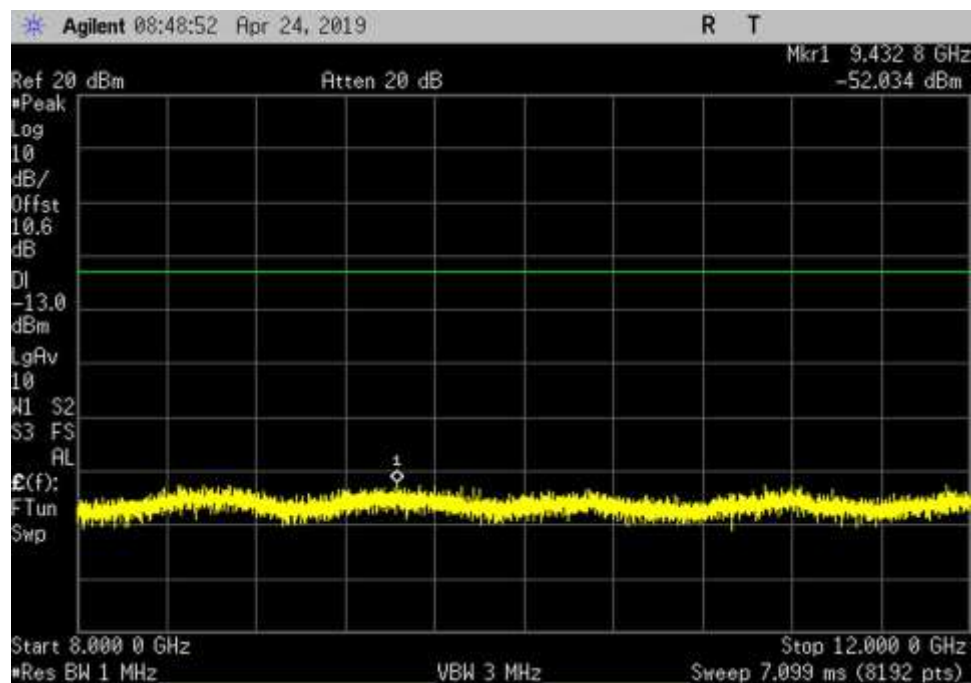
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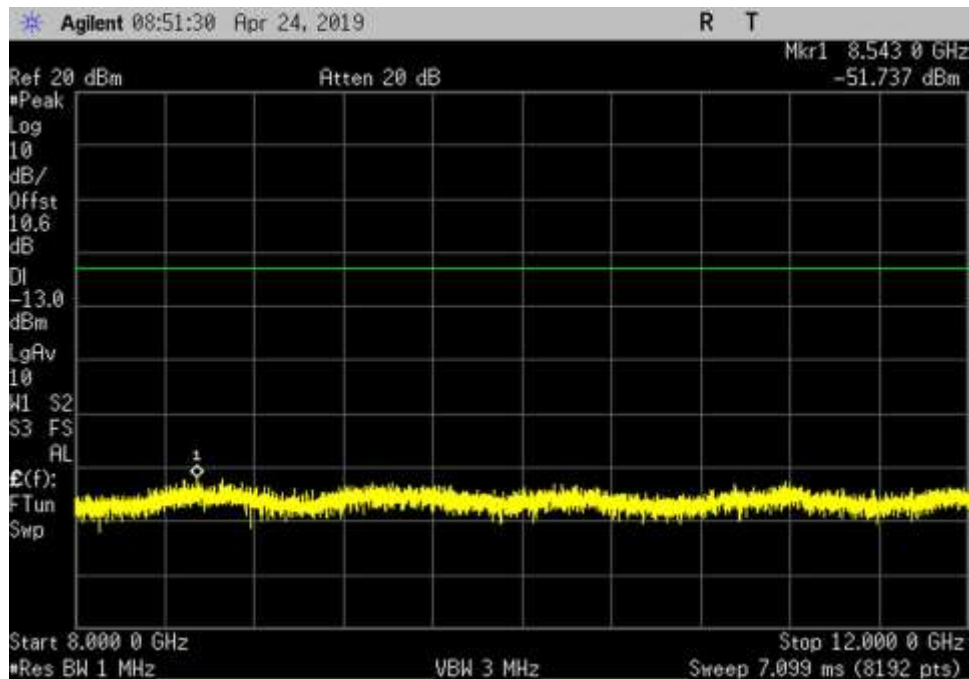
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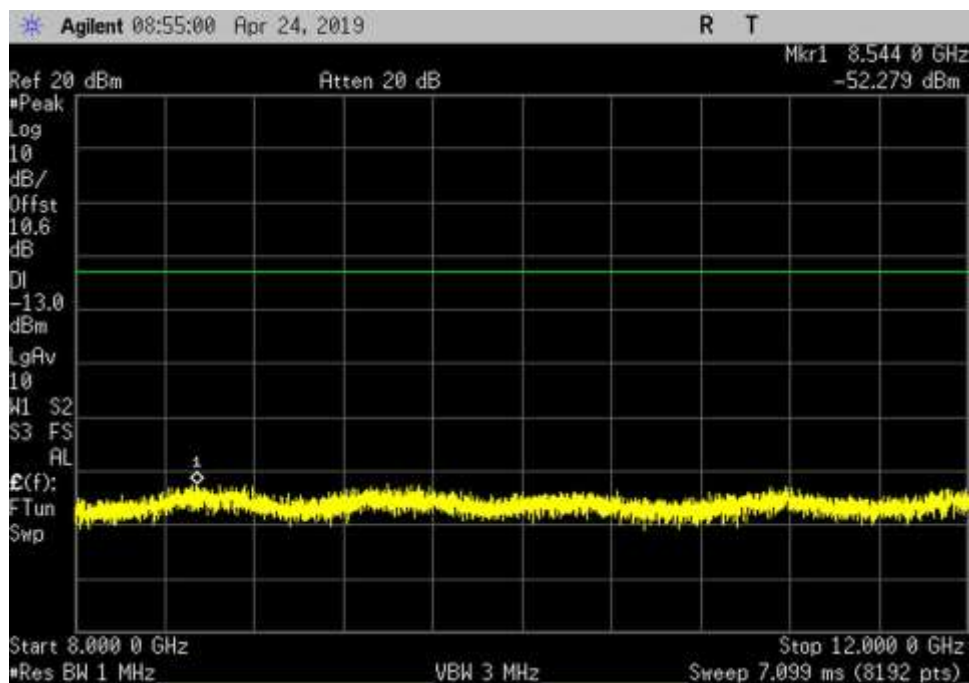
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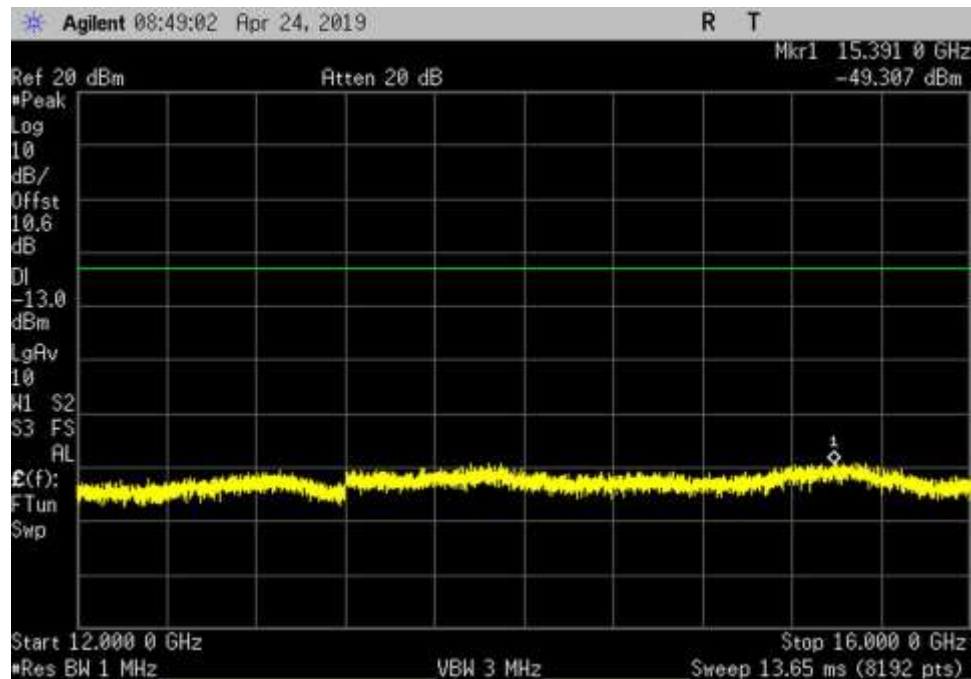
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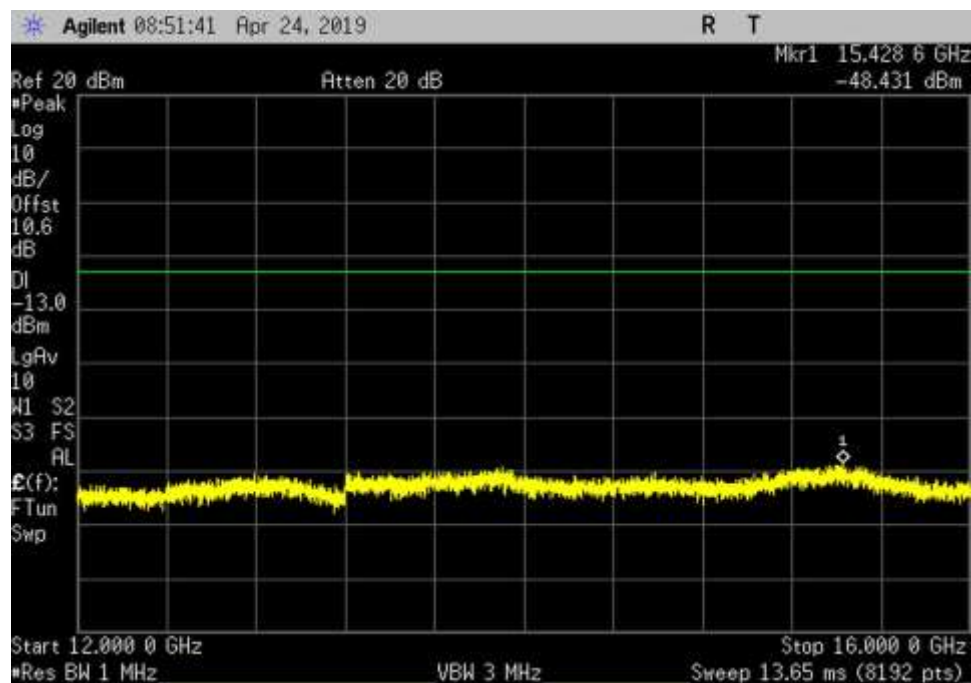
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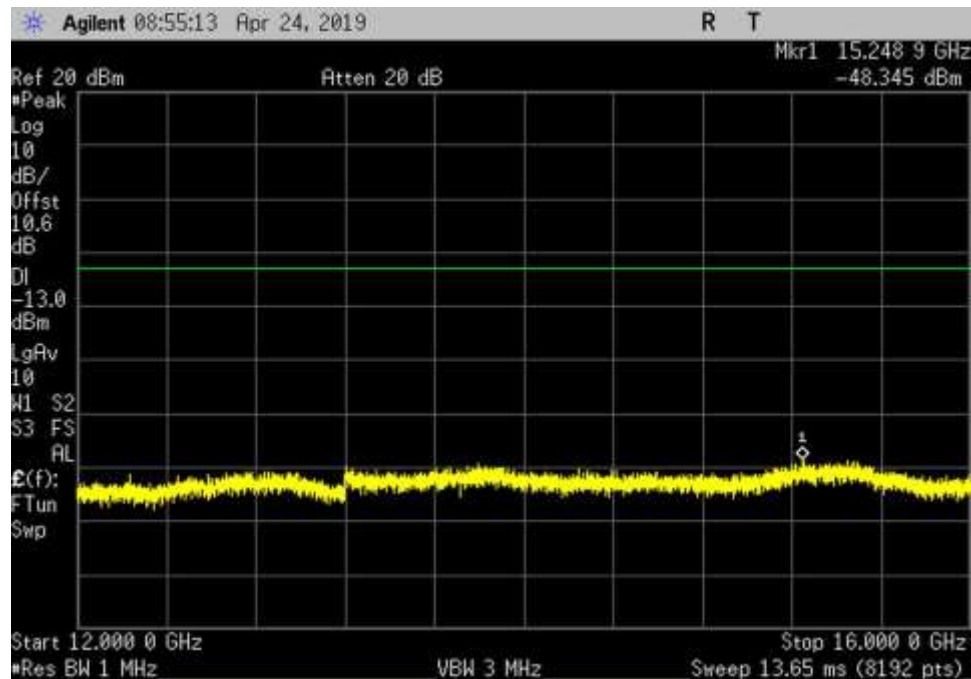
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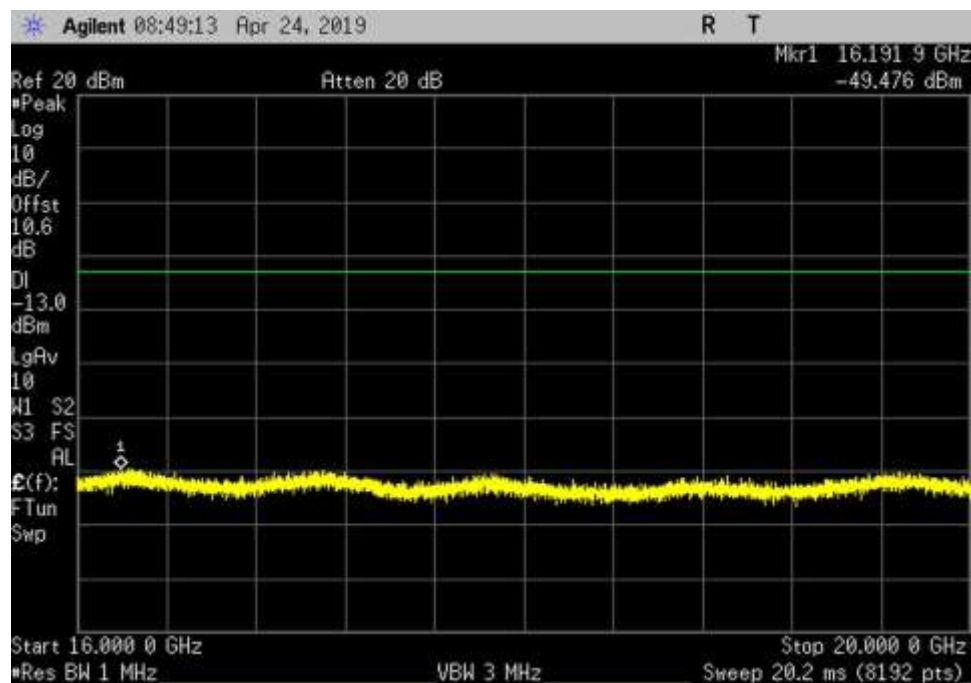
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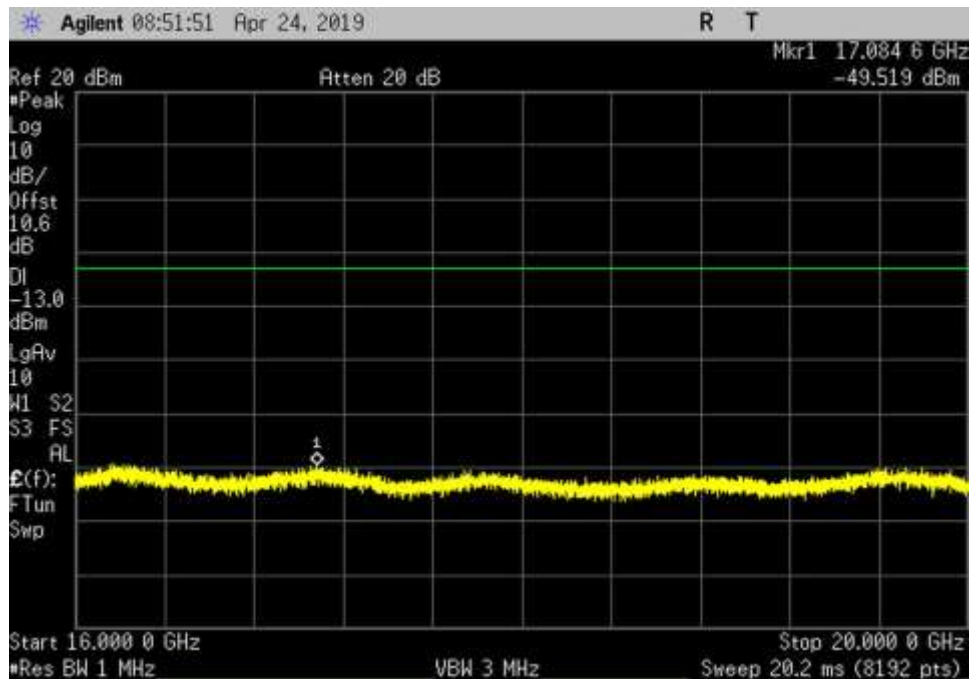
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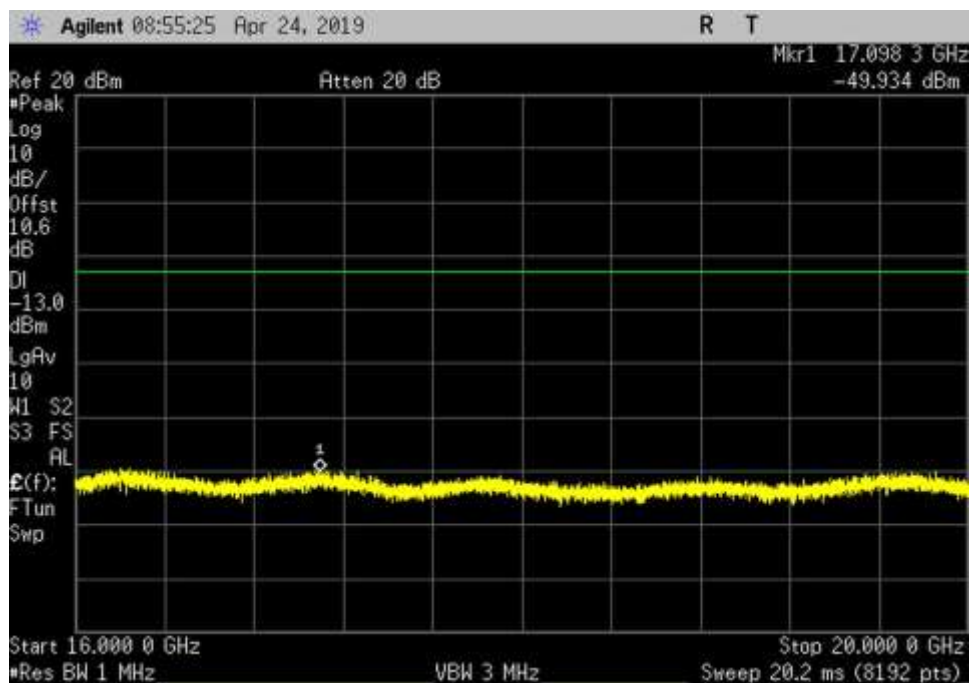
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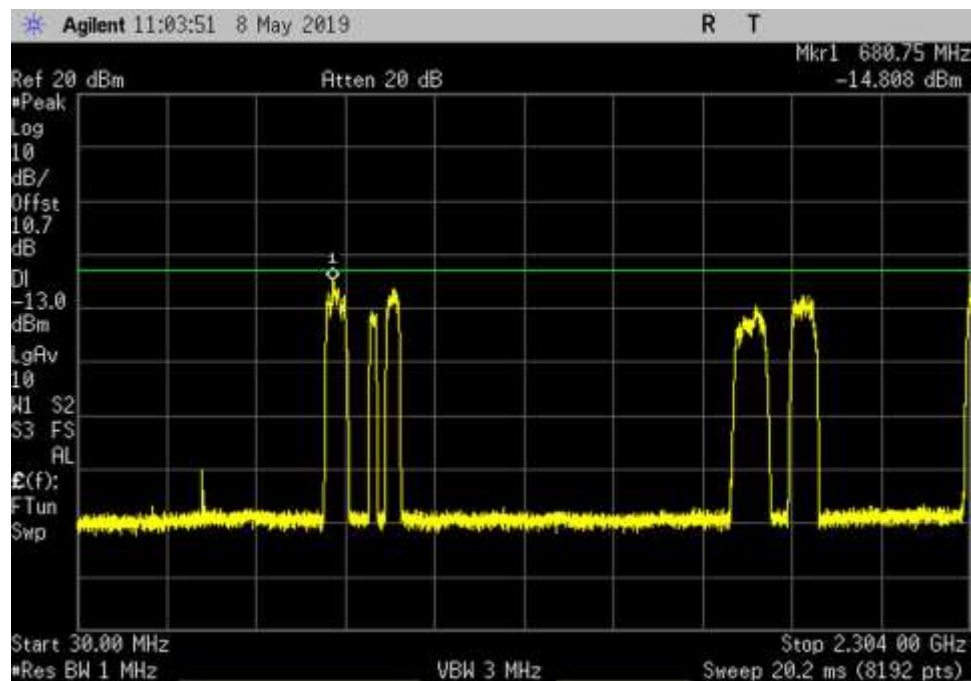
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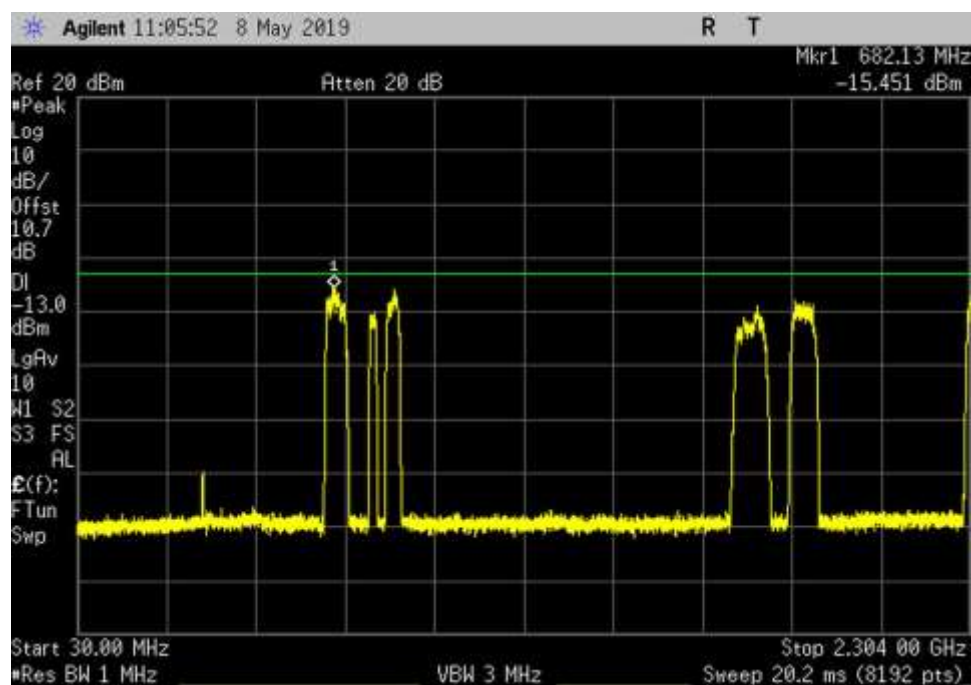
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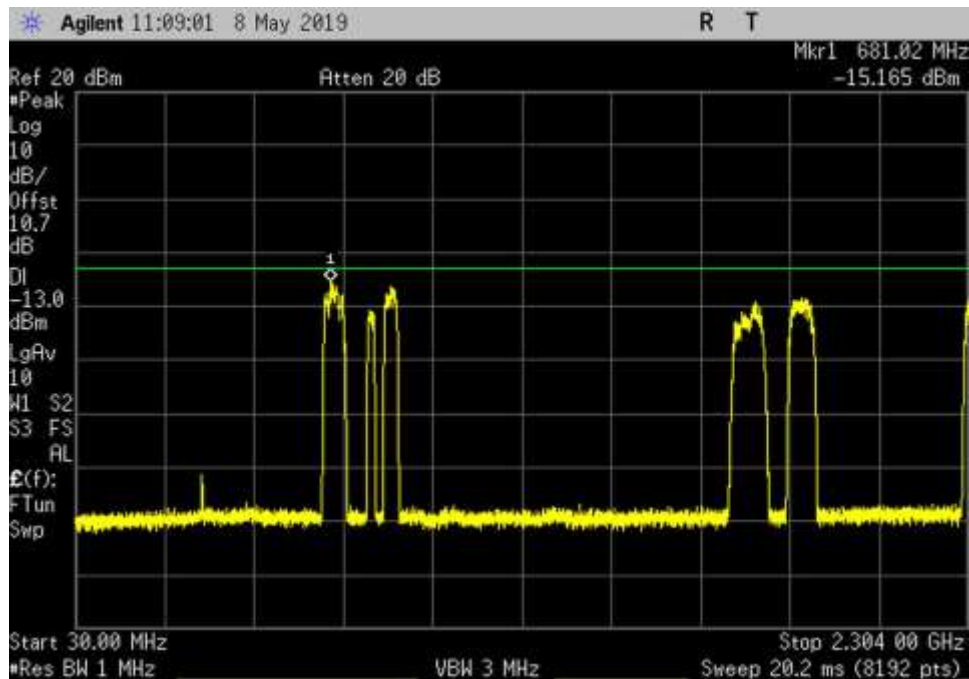
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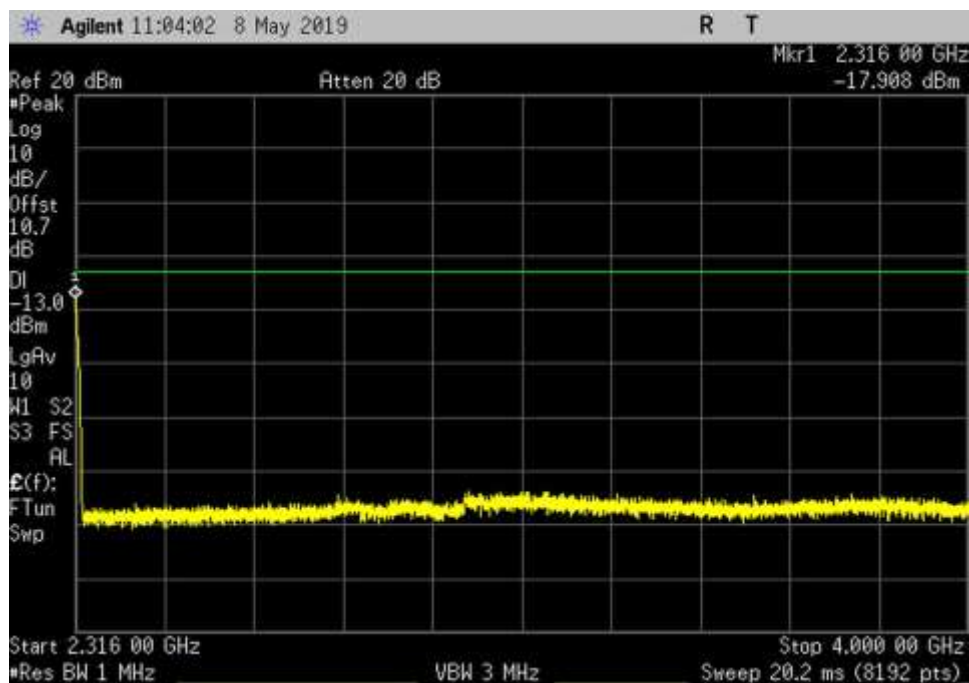
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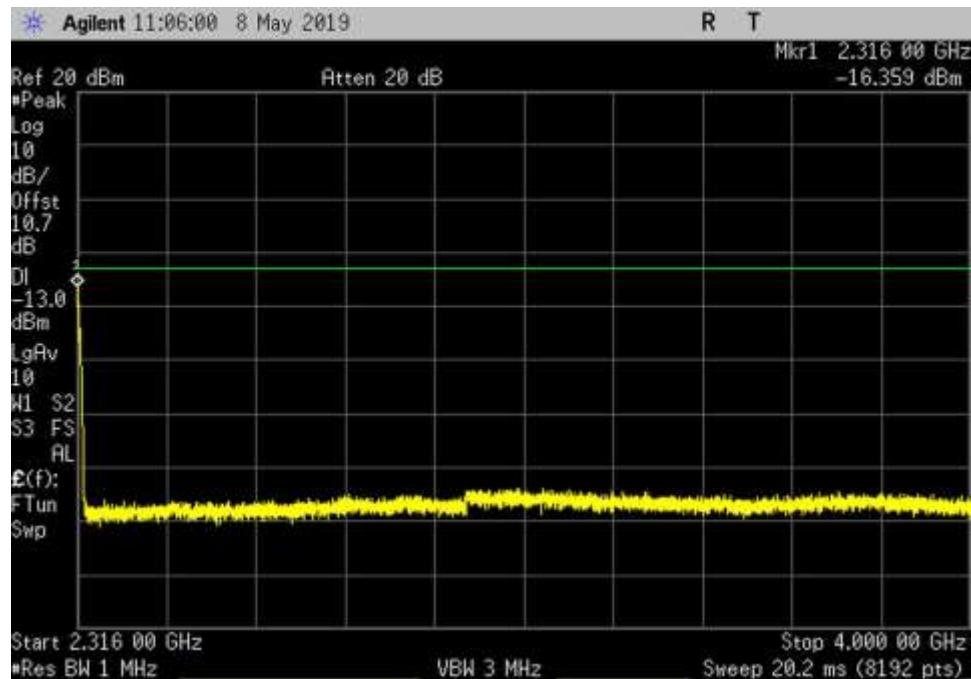
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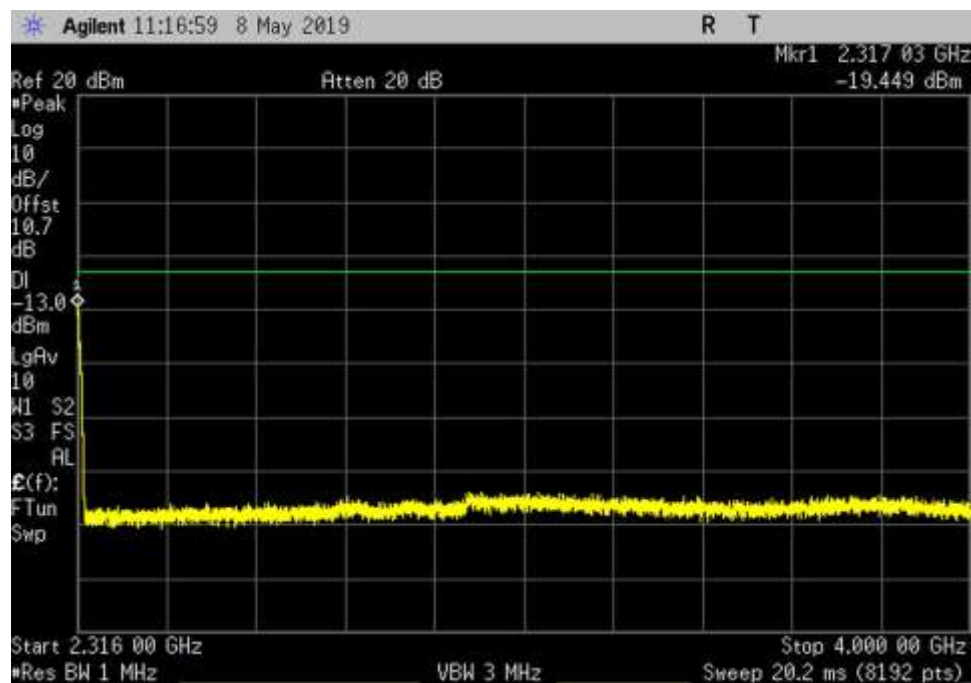
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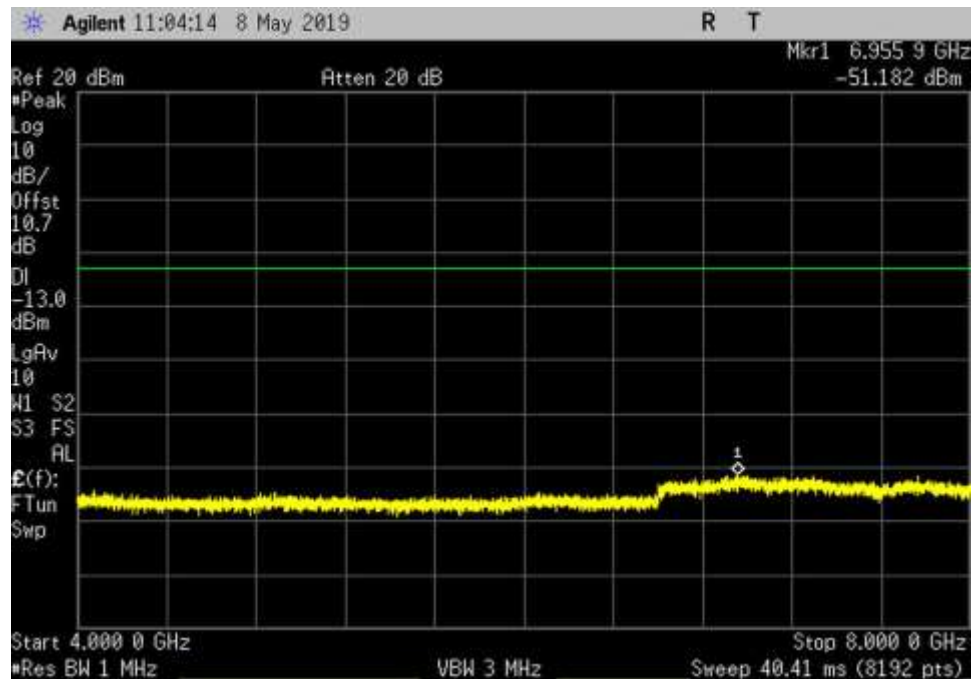
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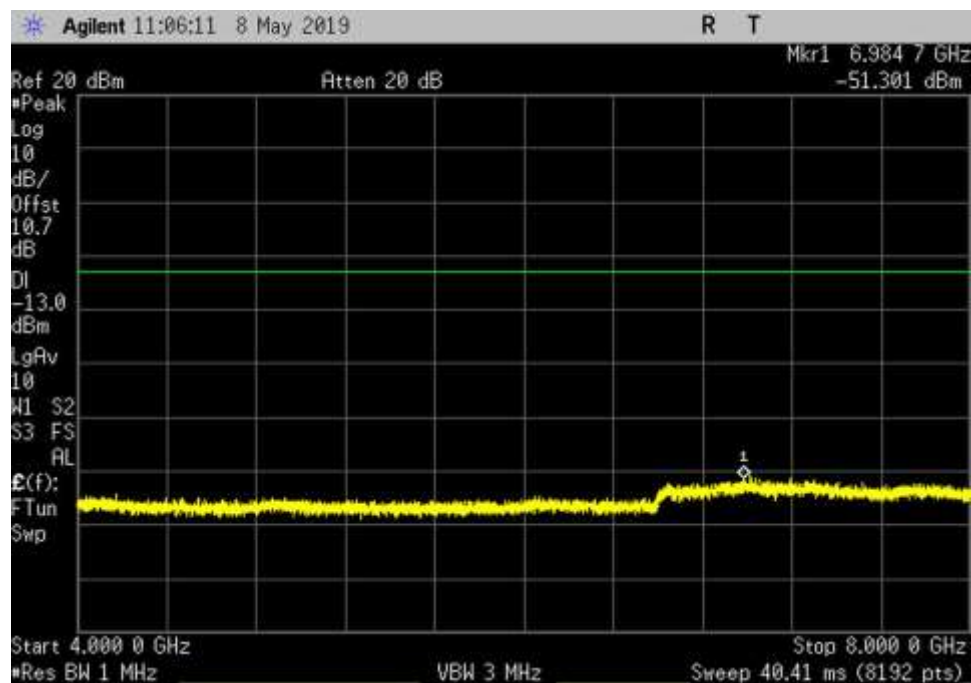
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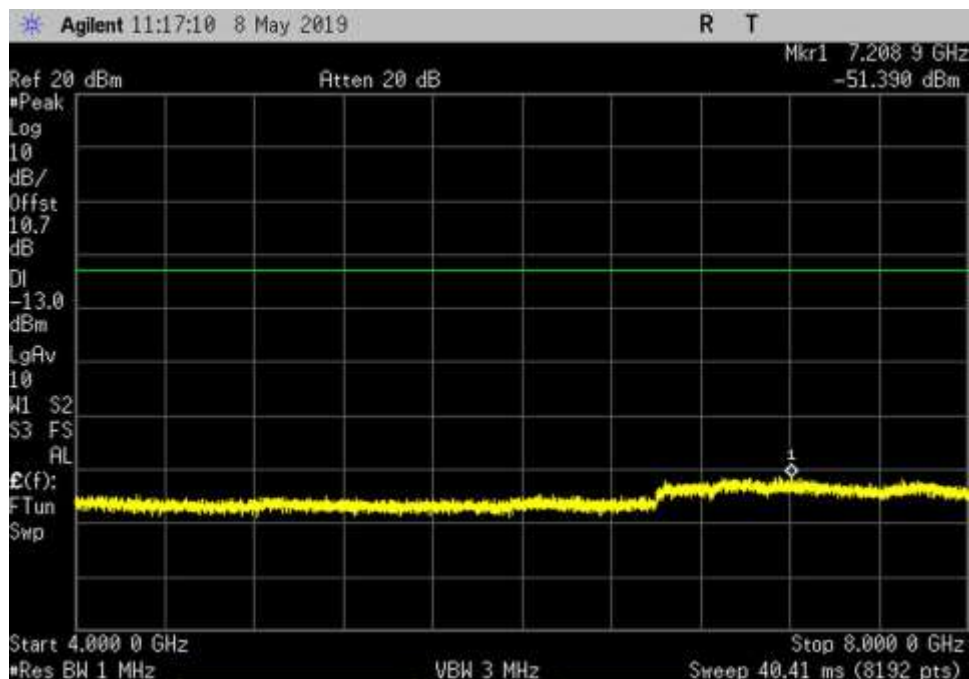
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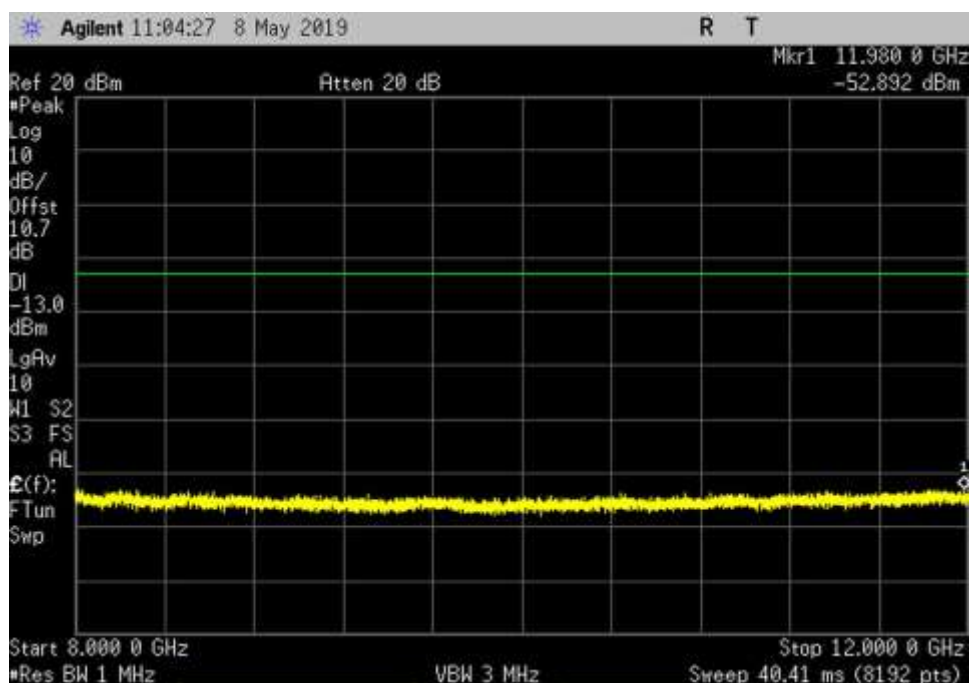
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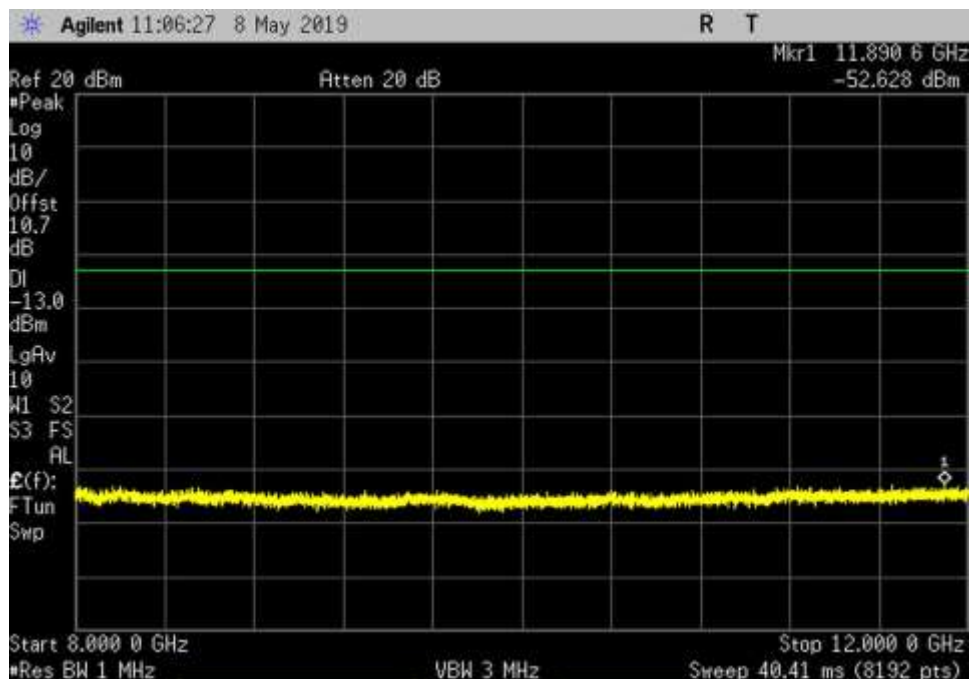
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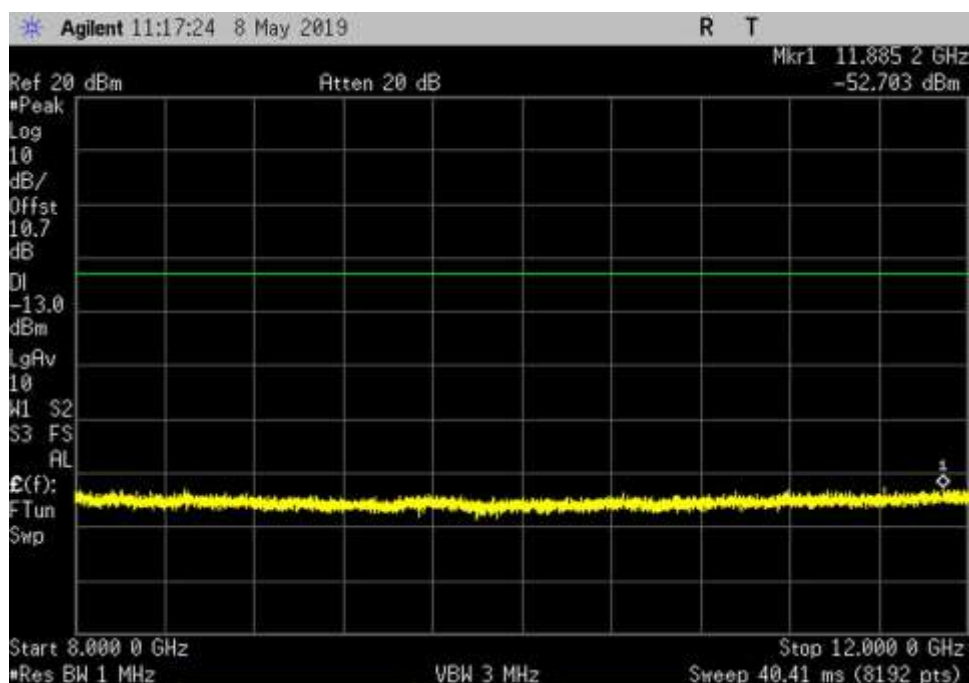
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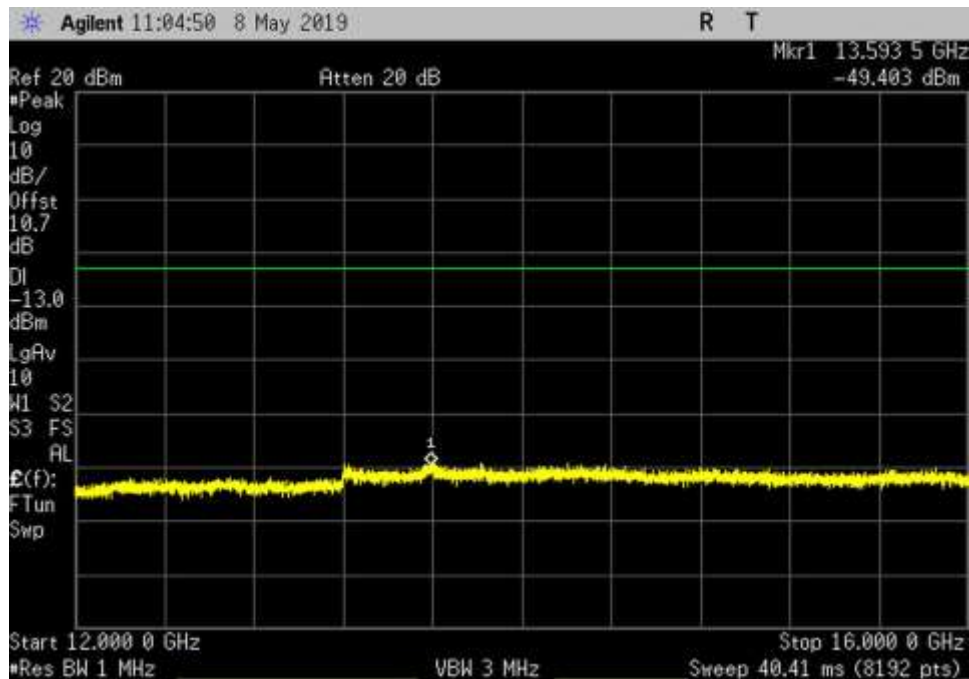
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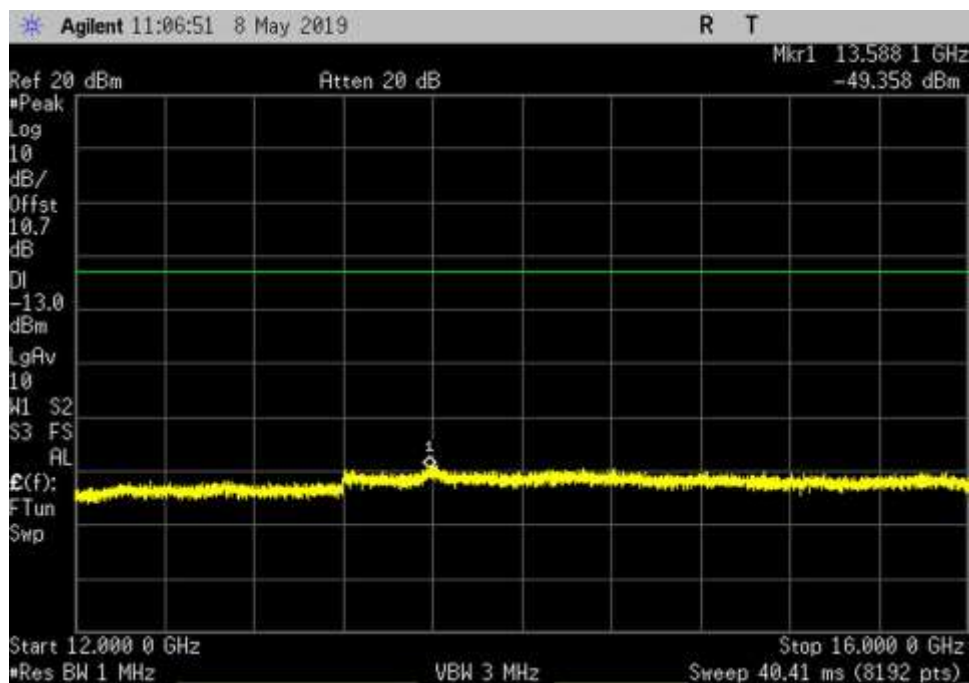
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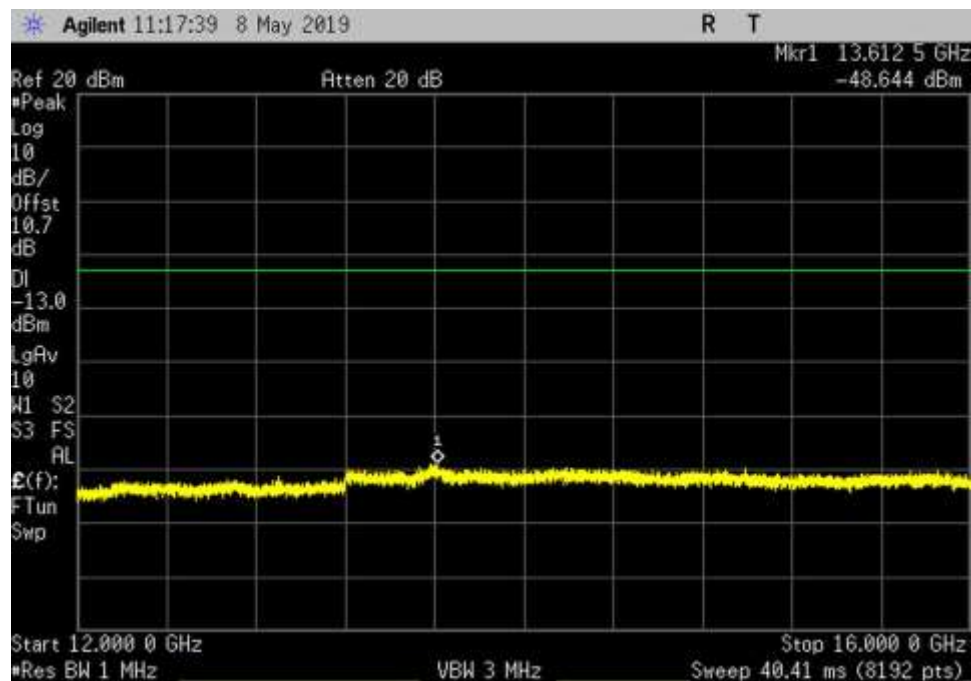
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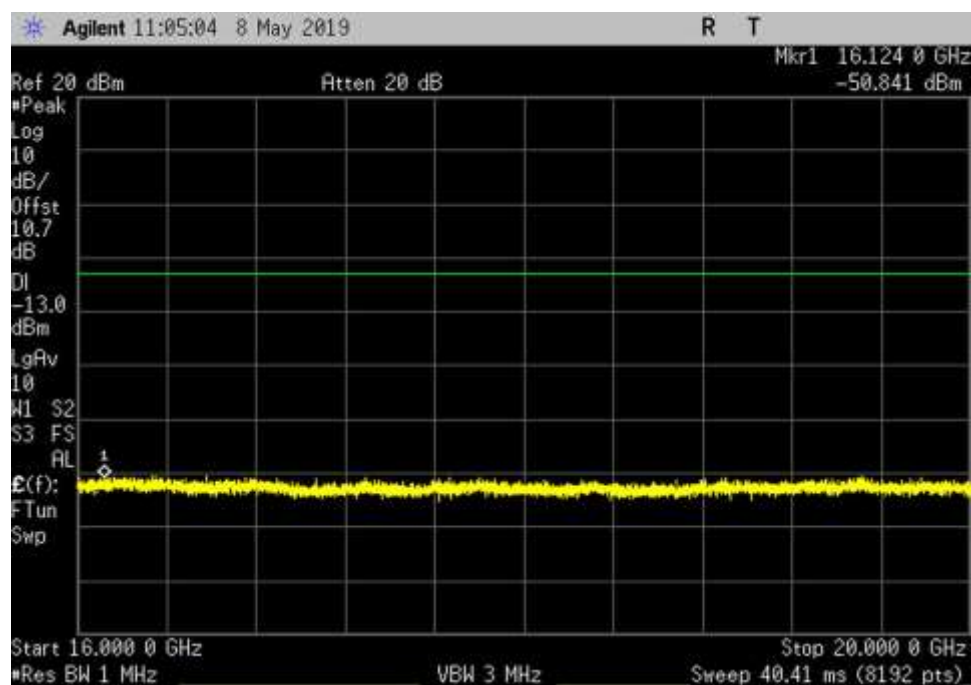
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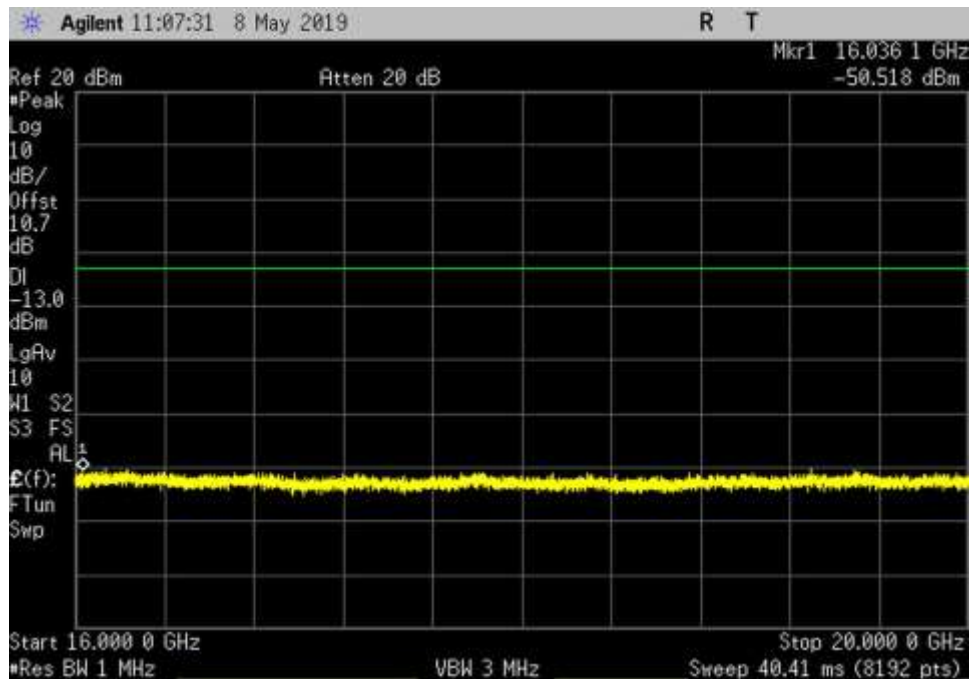
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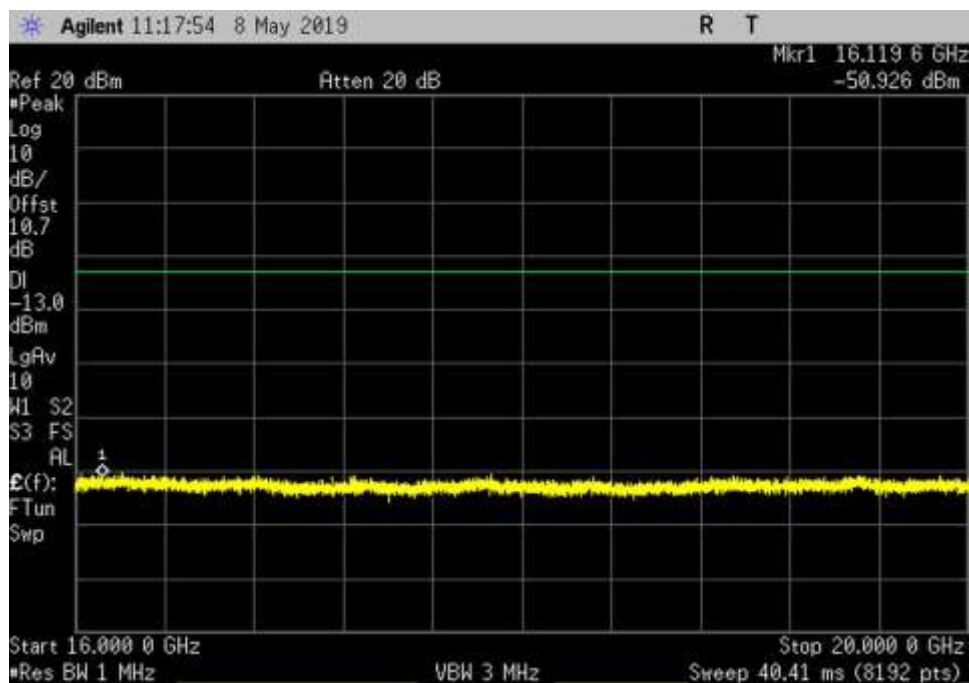
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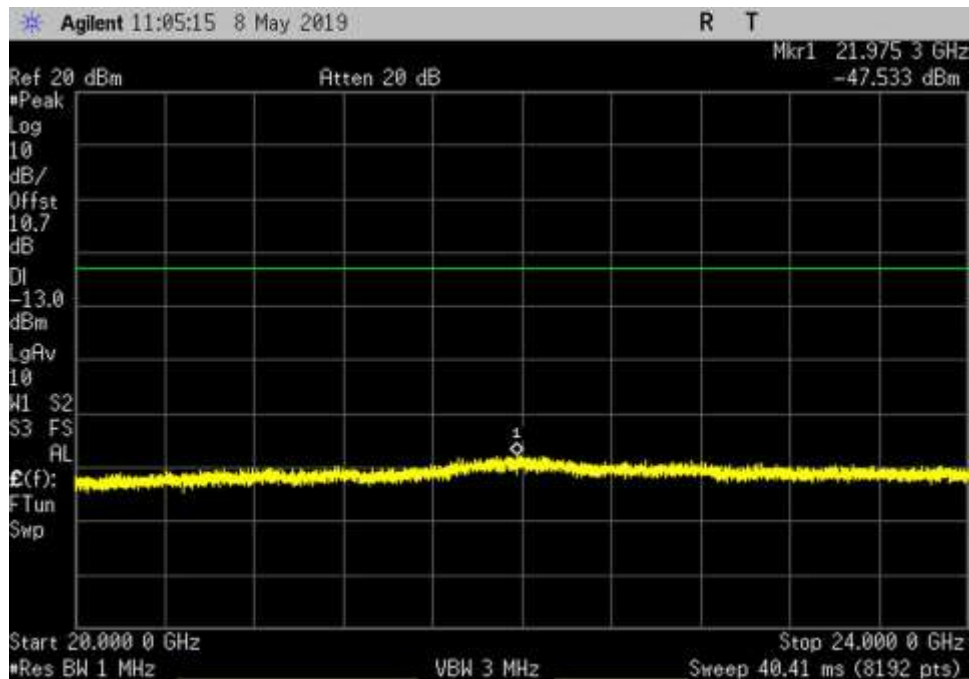
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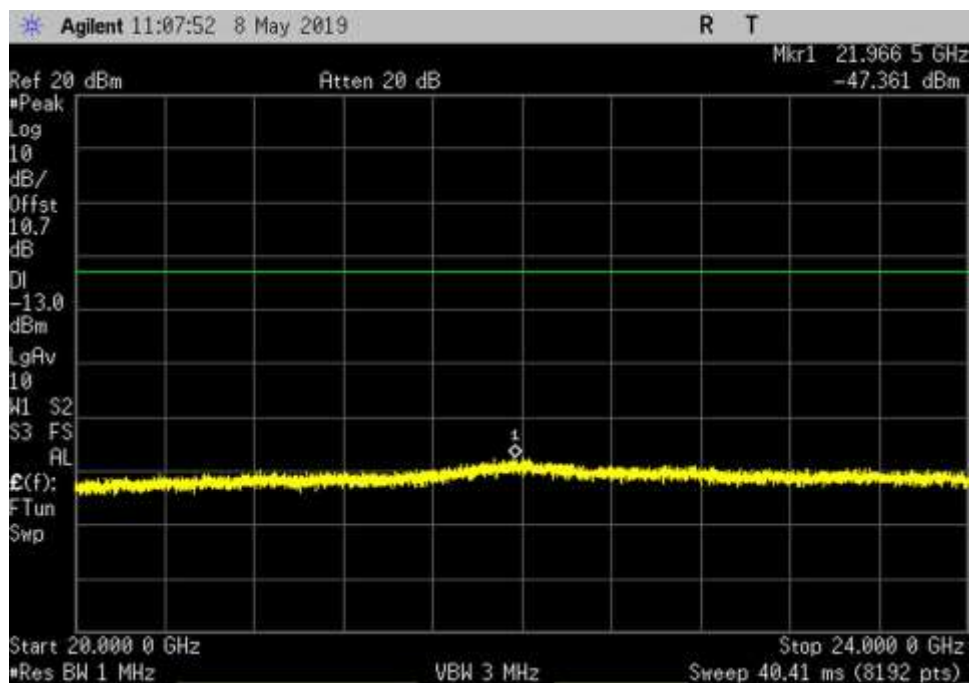
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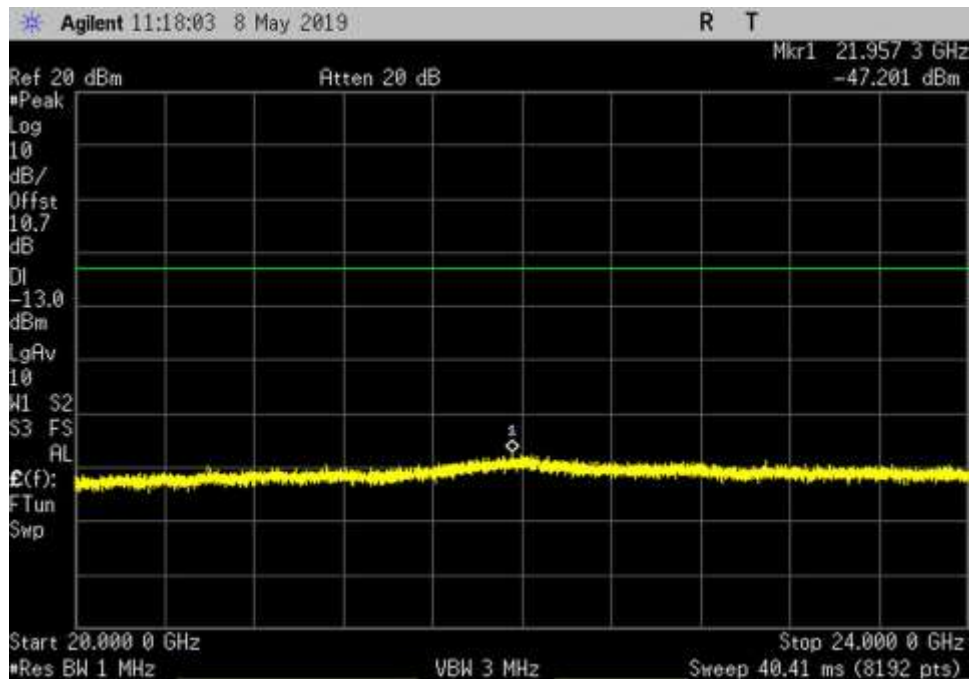
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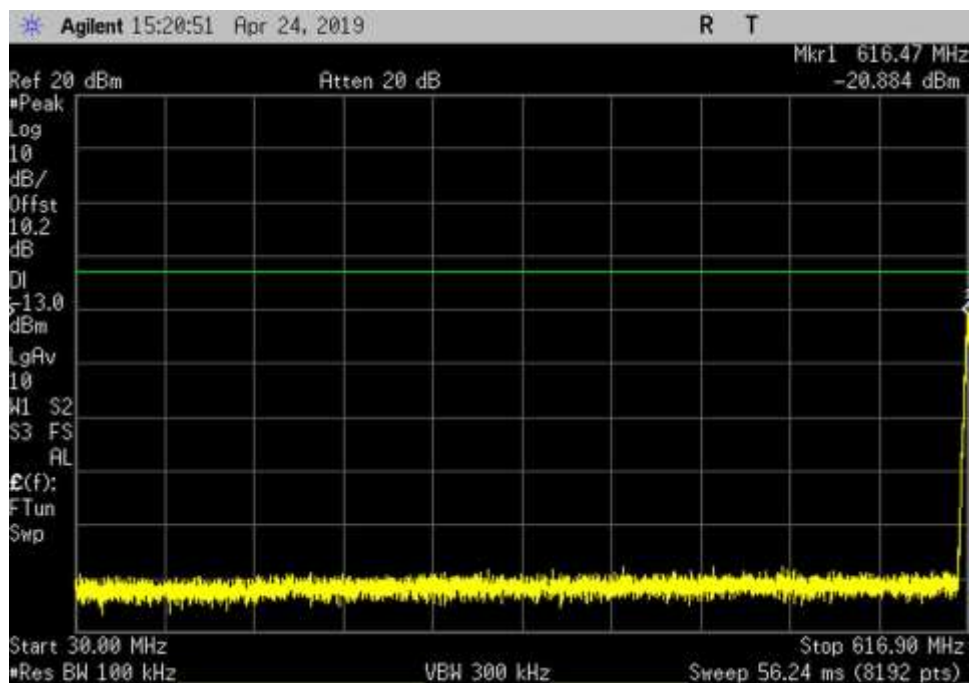
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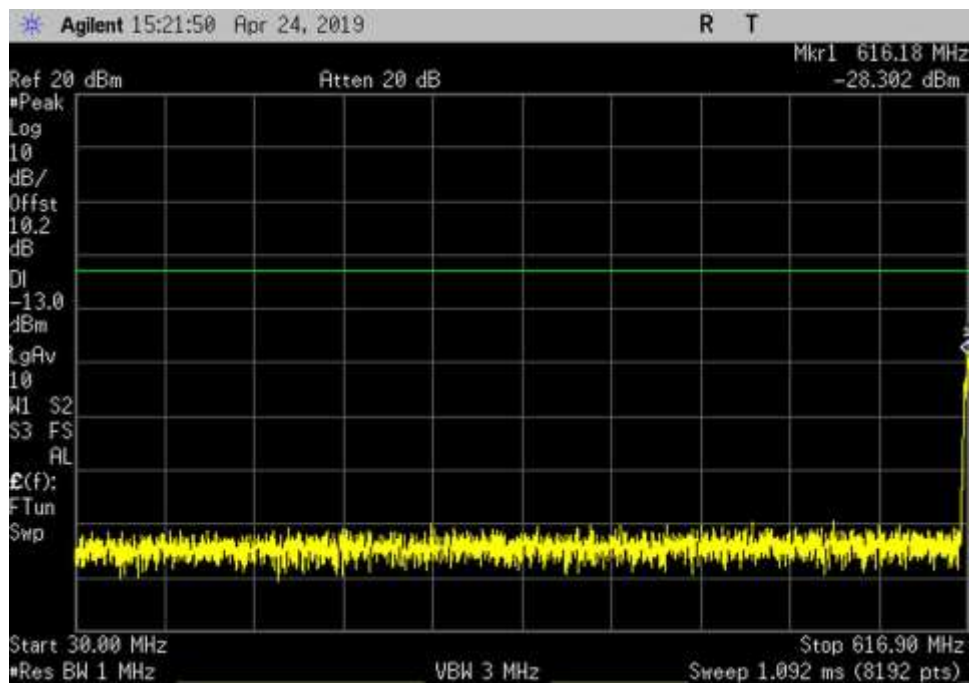
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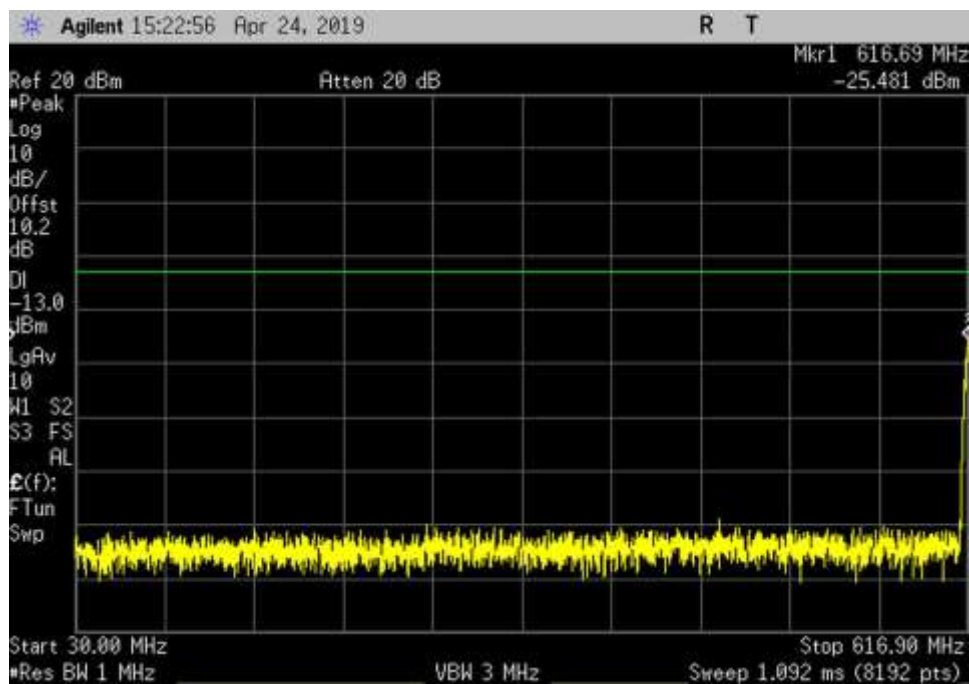
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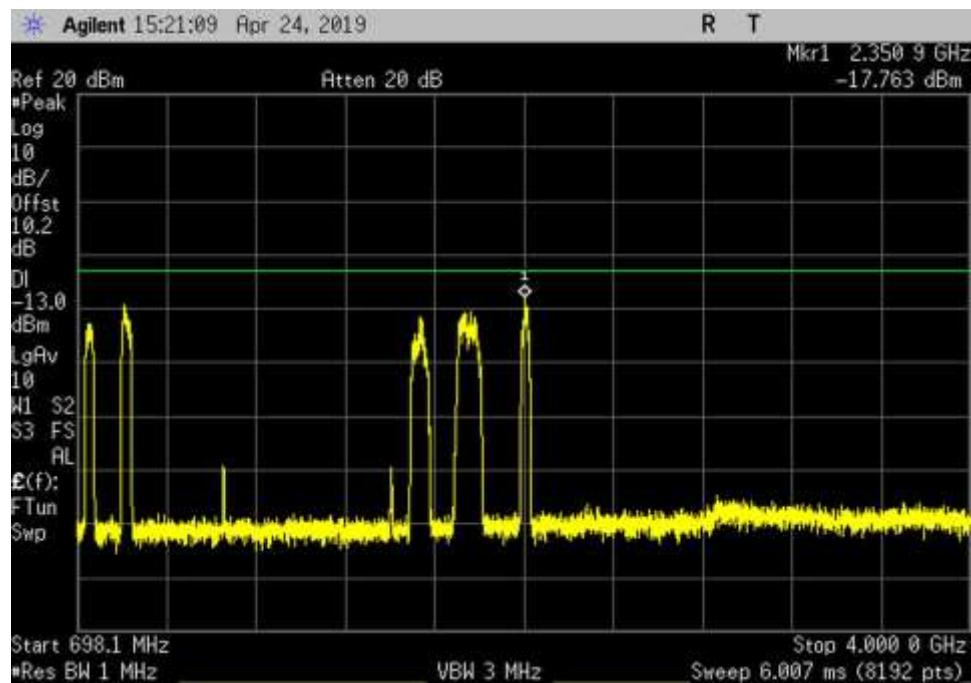
DL_617-698_AWGN_ 30- 616.9MHz_LC



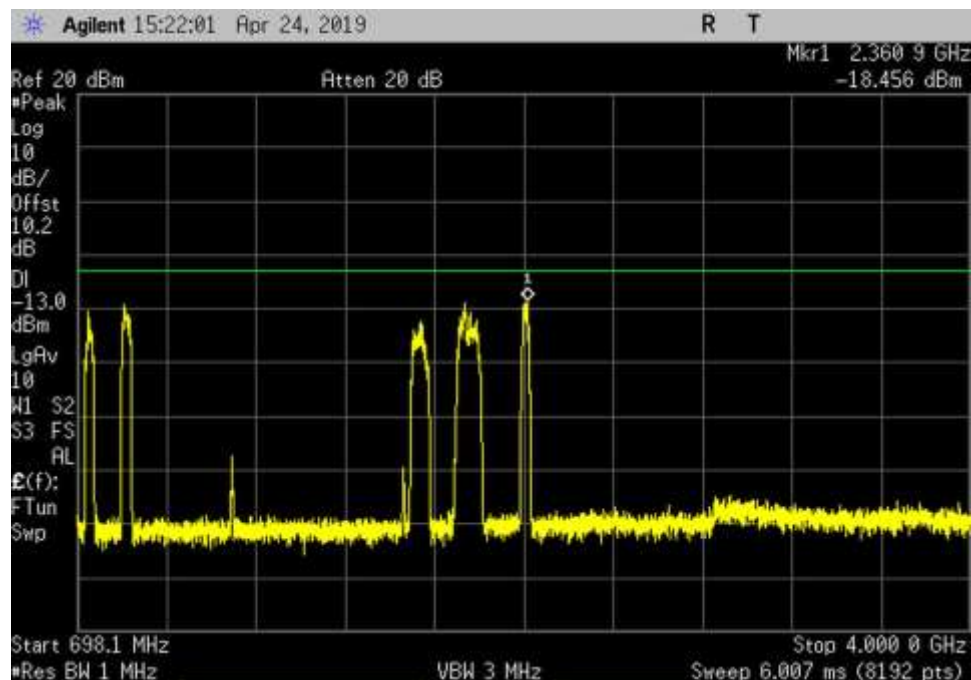
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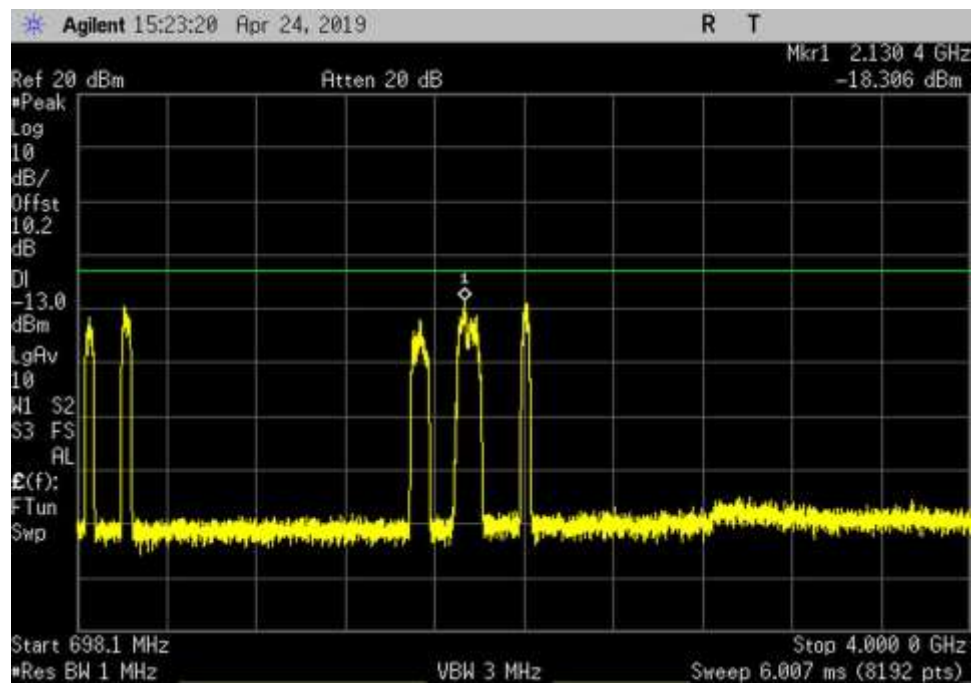
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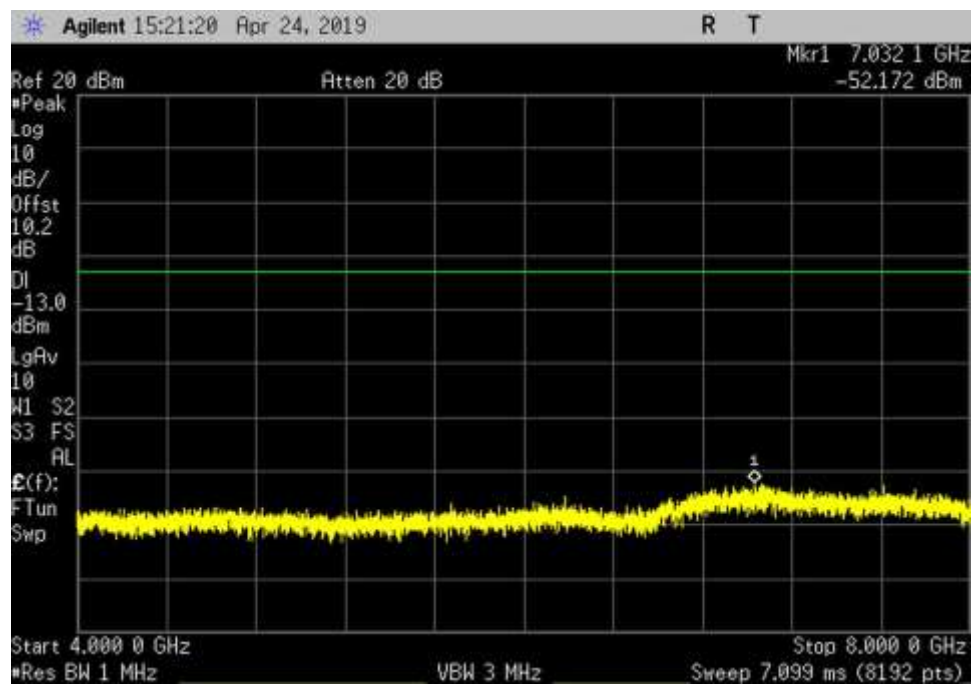
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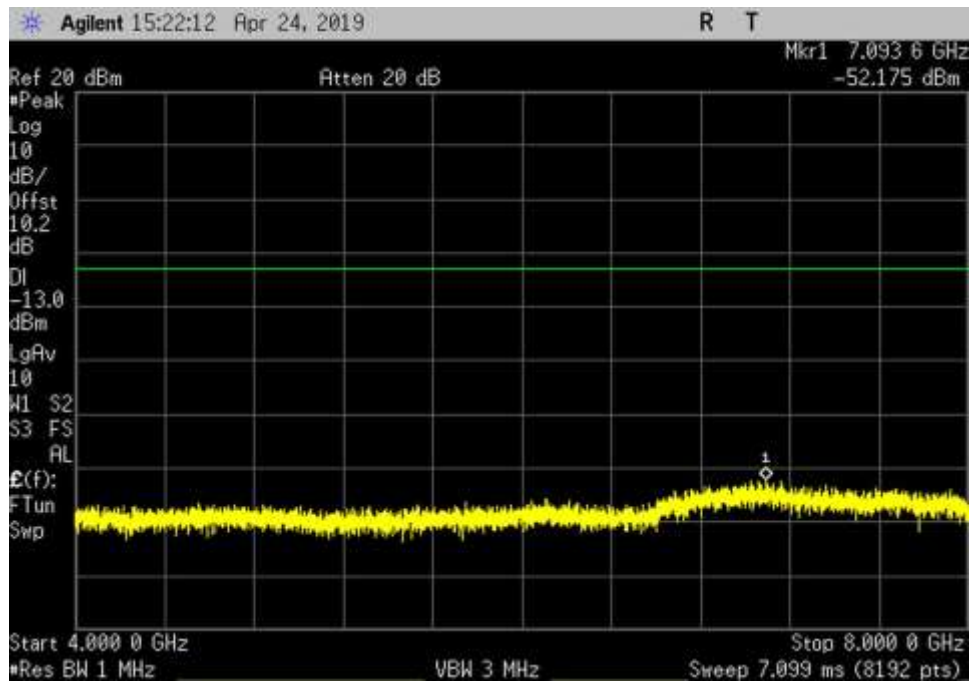
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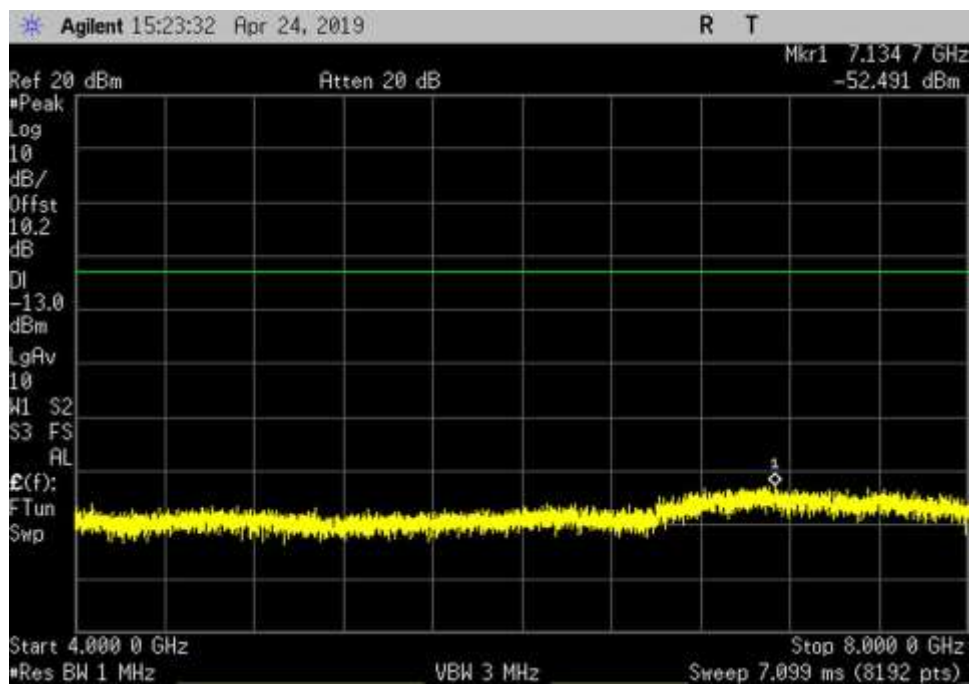
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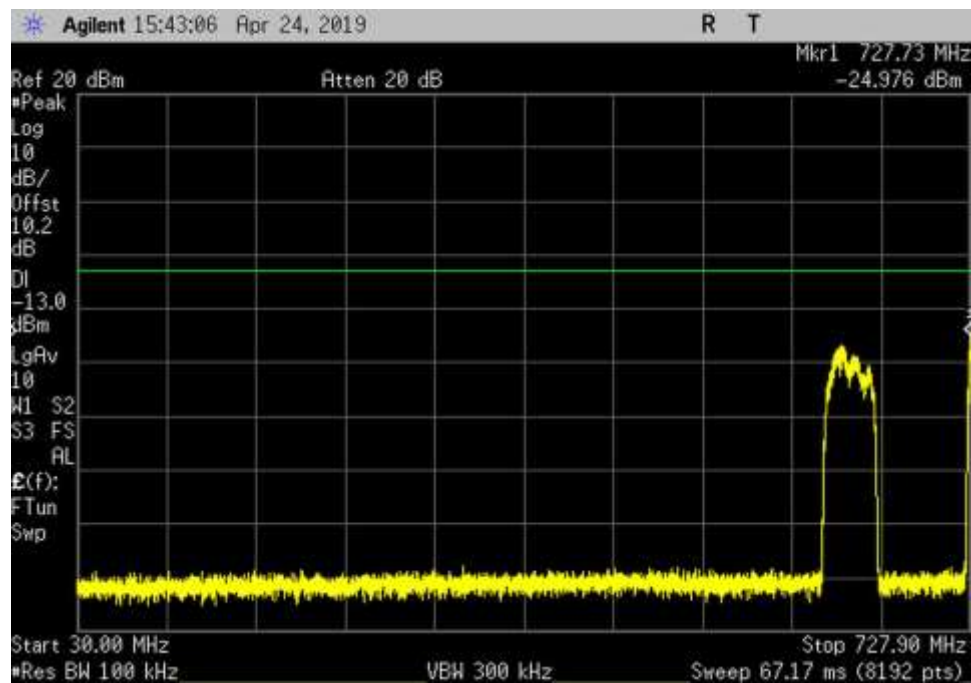
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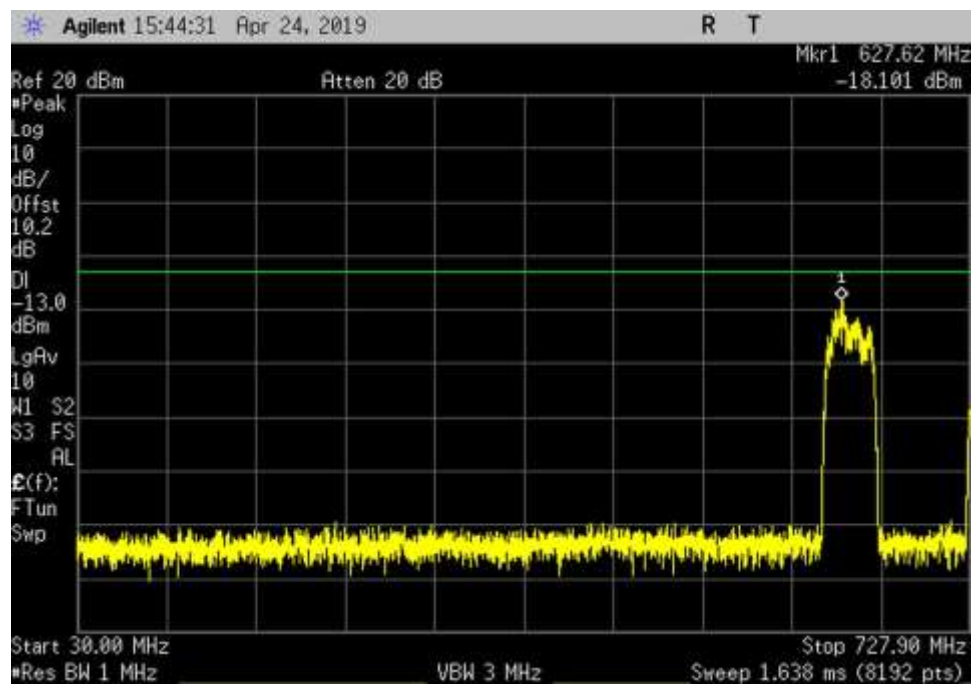
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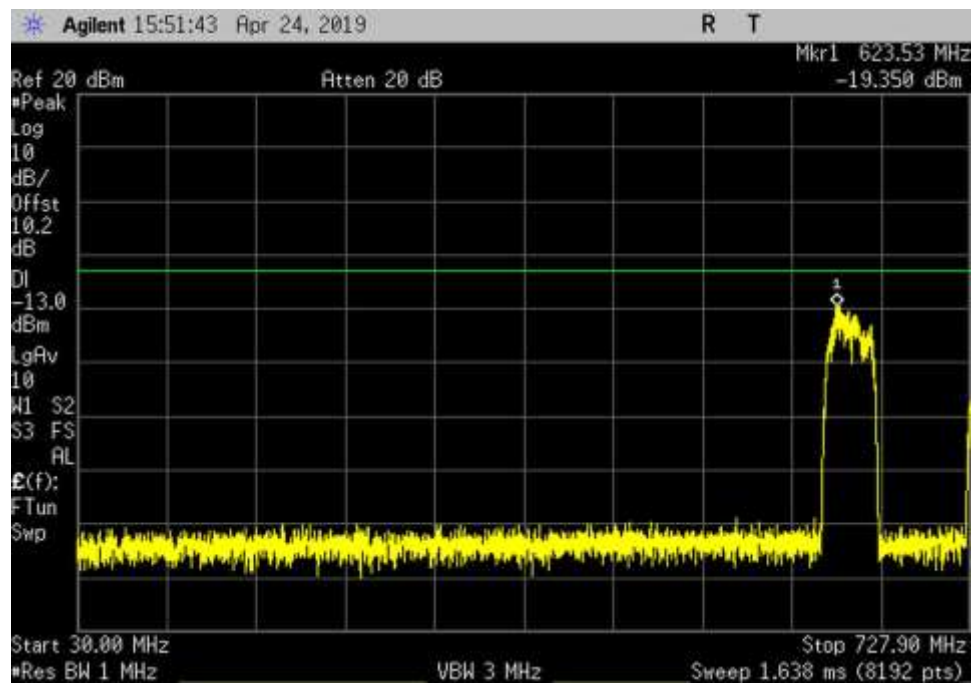
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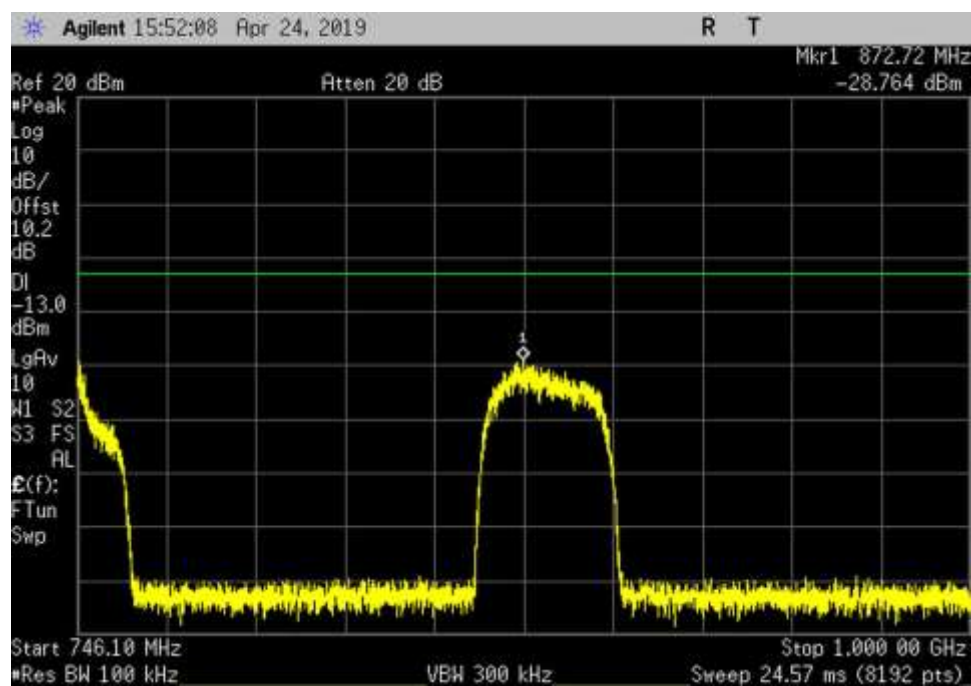
DL_728-746_AWGN_30-727.9MHz_LC



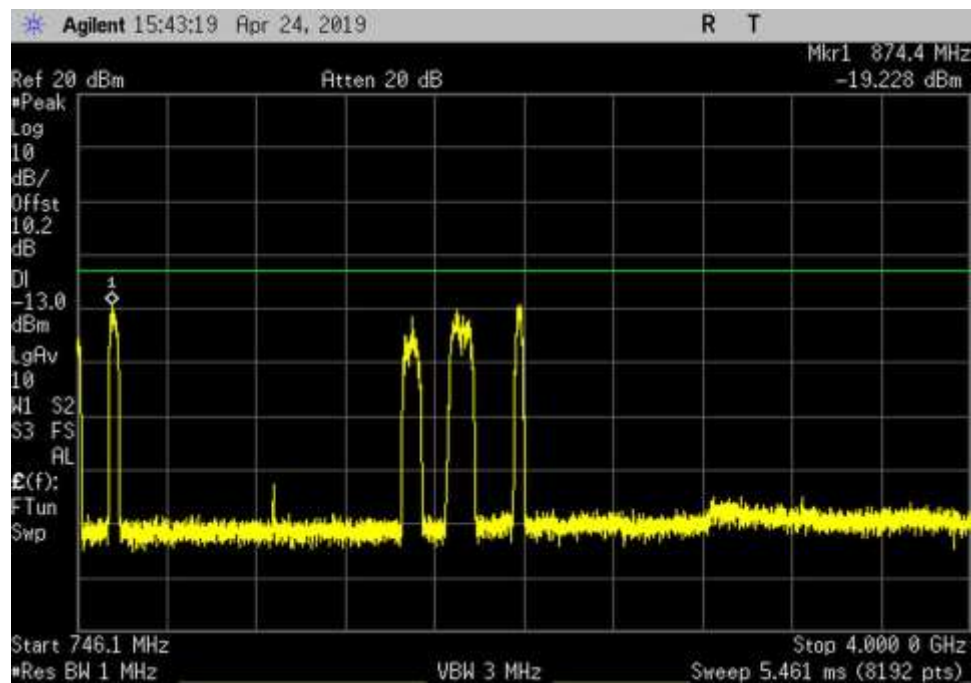
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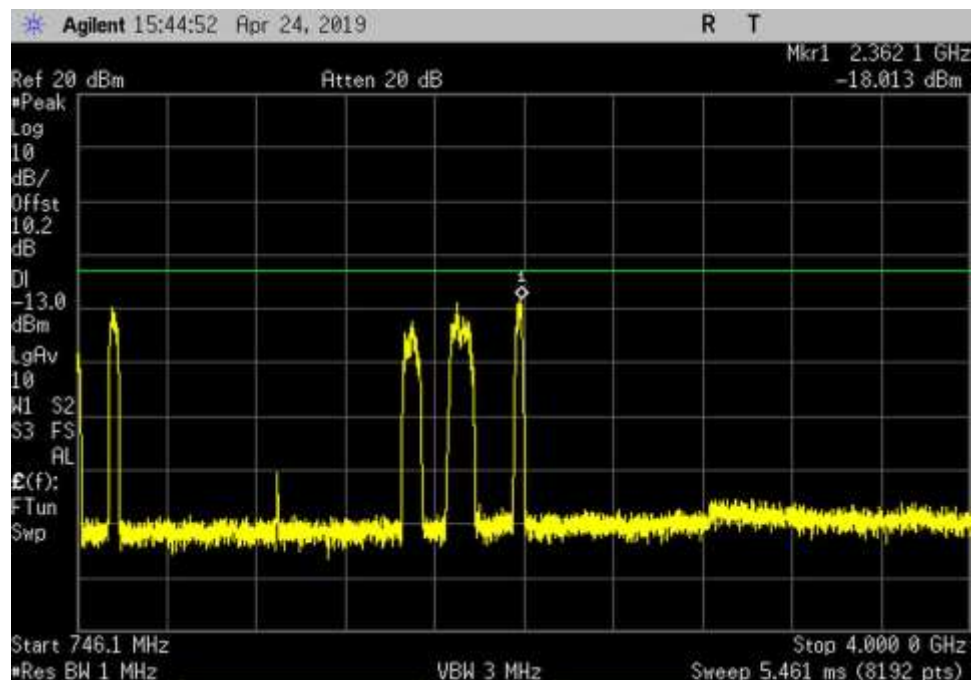
DL_728-746_AWGN_30- 727.9MHz_HC



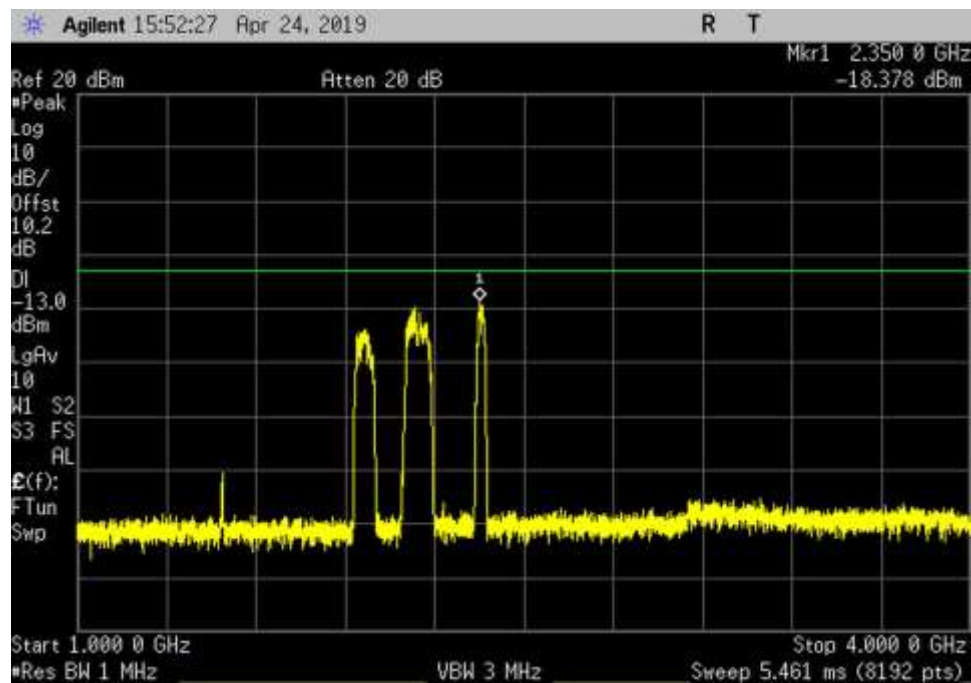
DL_728-746_AWGN_ 746.1- 1000MHz_HC



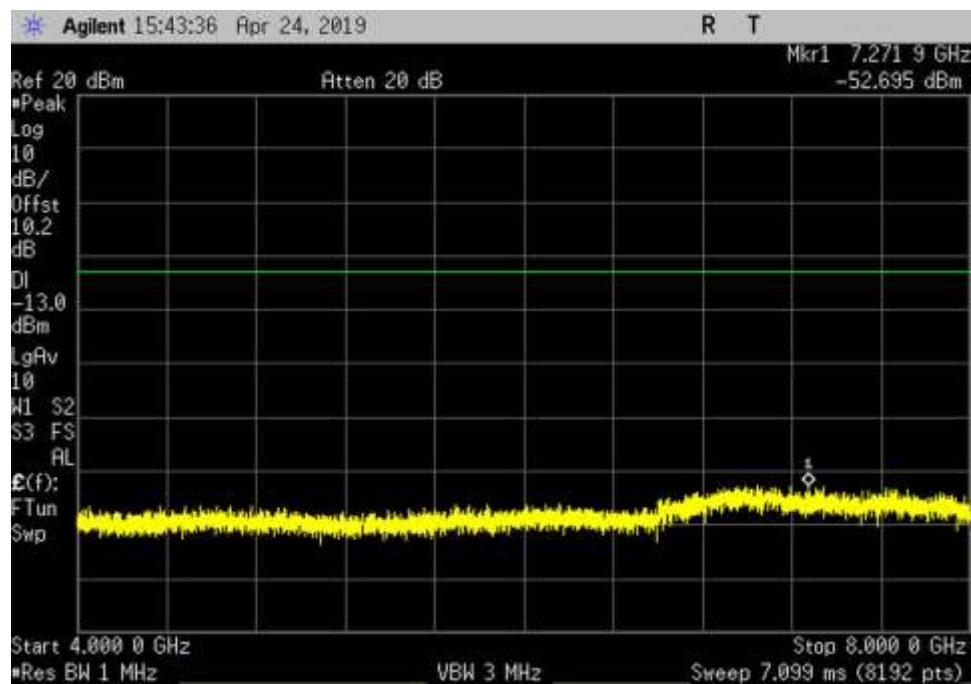
DL_728-746_AWGN_ 746.1- 4000MHz_LC



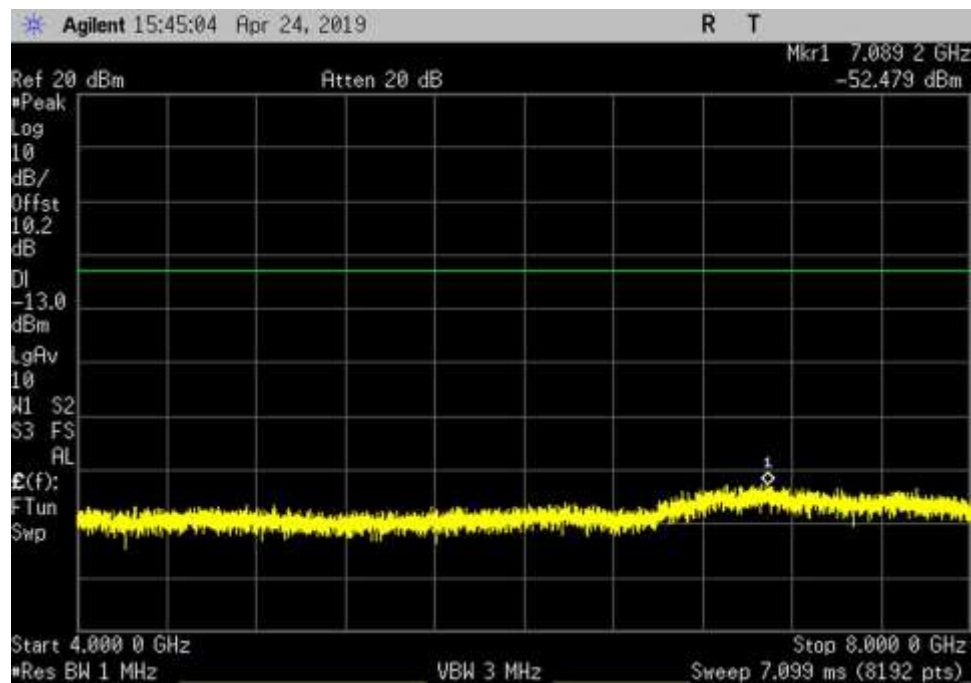
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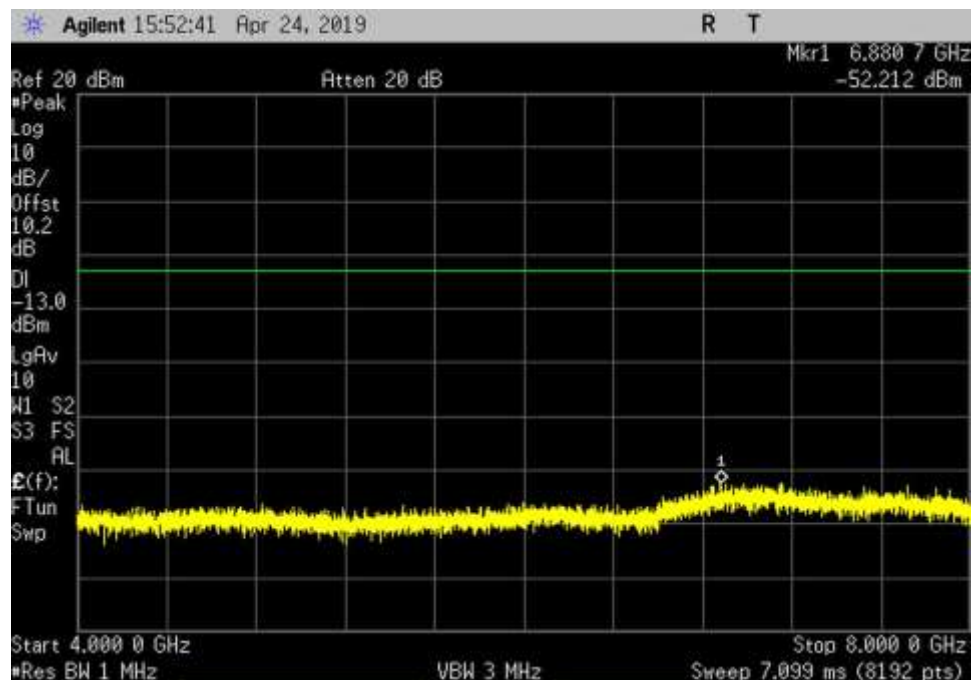
DL_728-746_AWGN_1000-4000MHz_HC



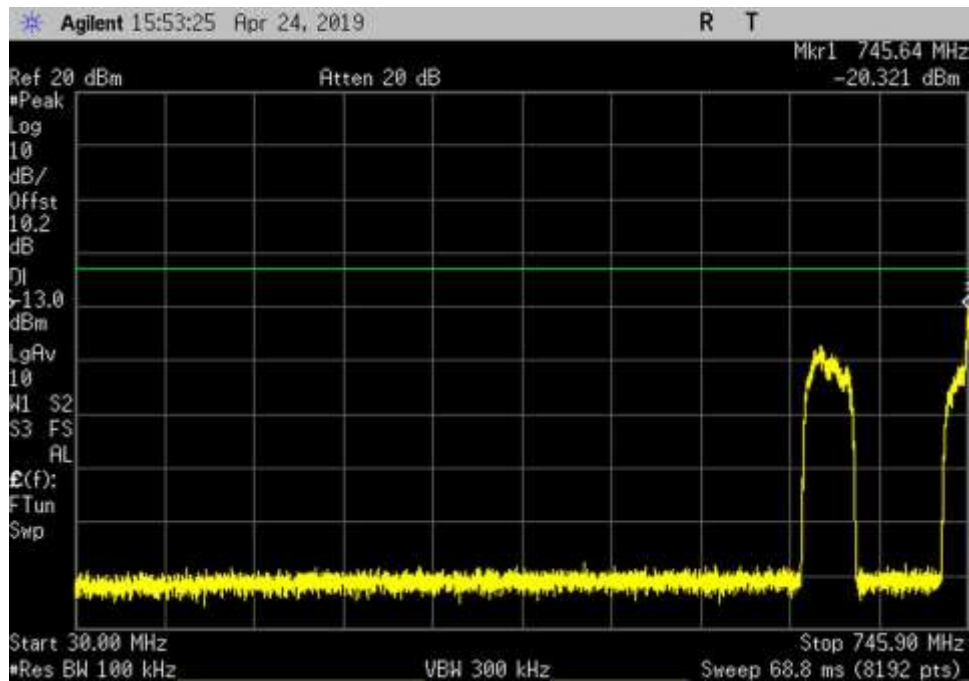
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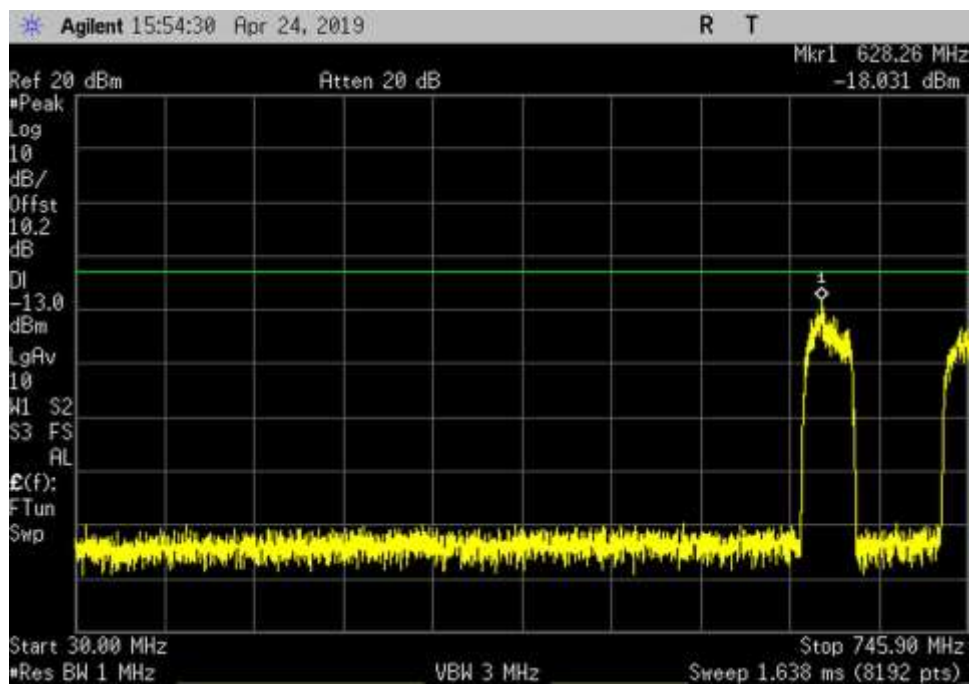
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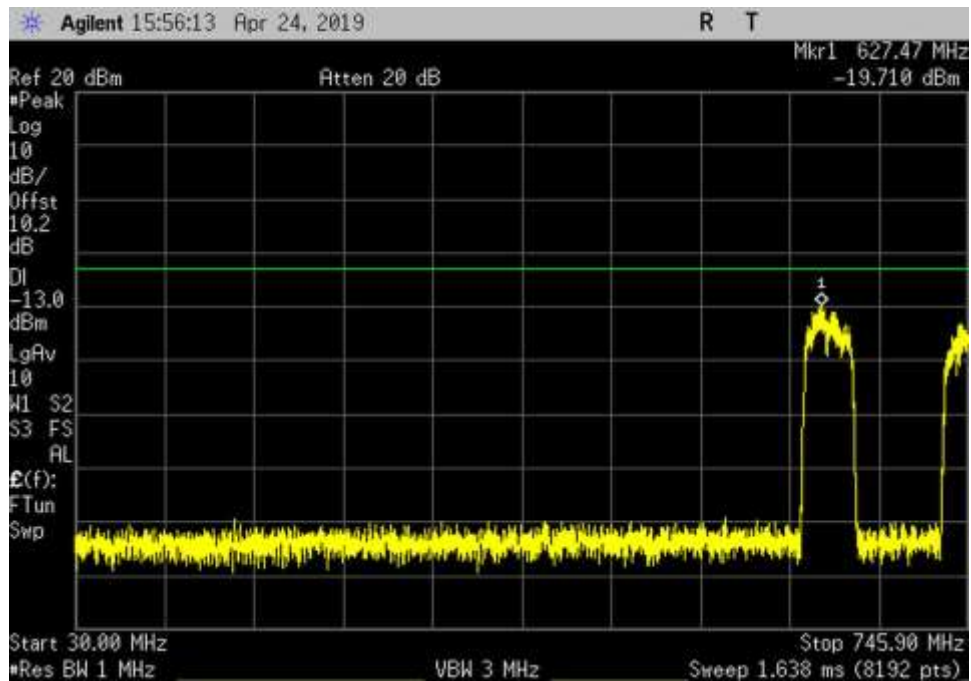
DL_728-746_AWGN_4000-8000MHz_HC



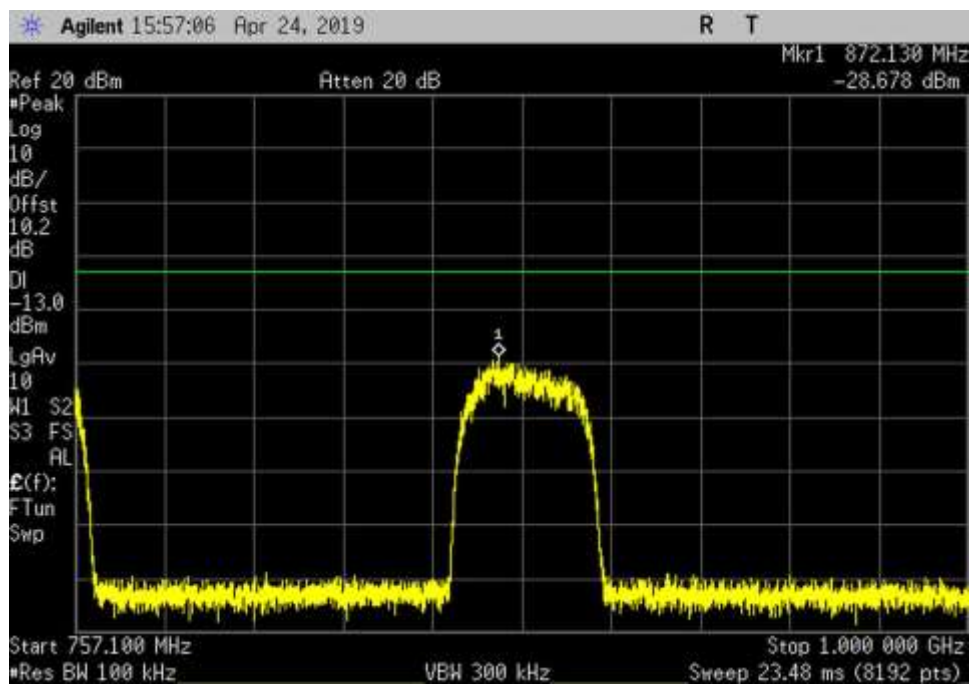
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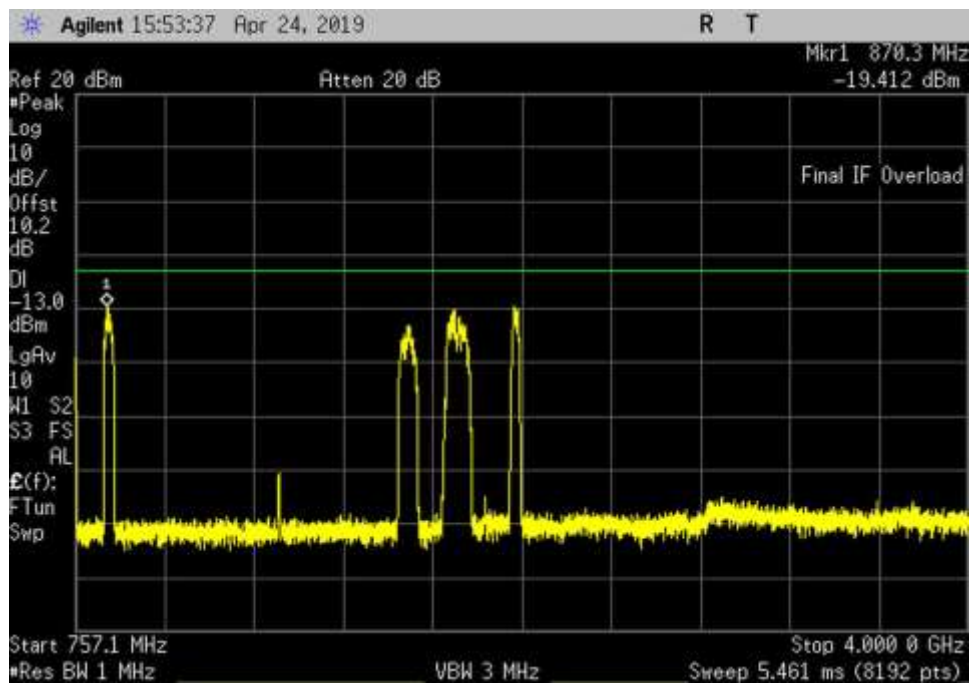
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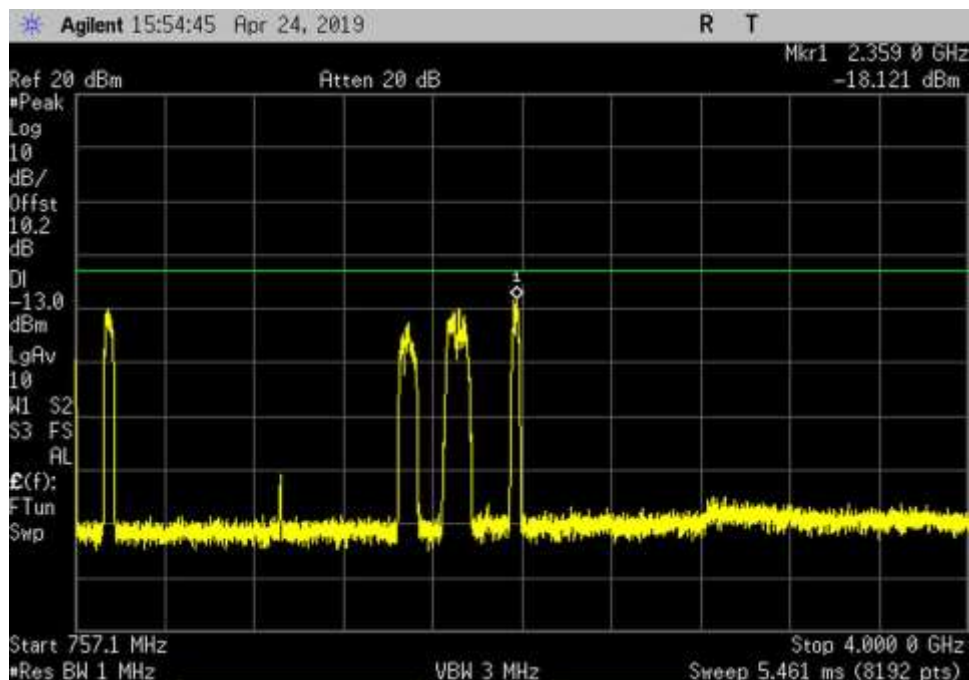
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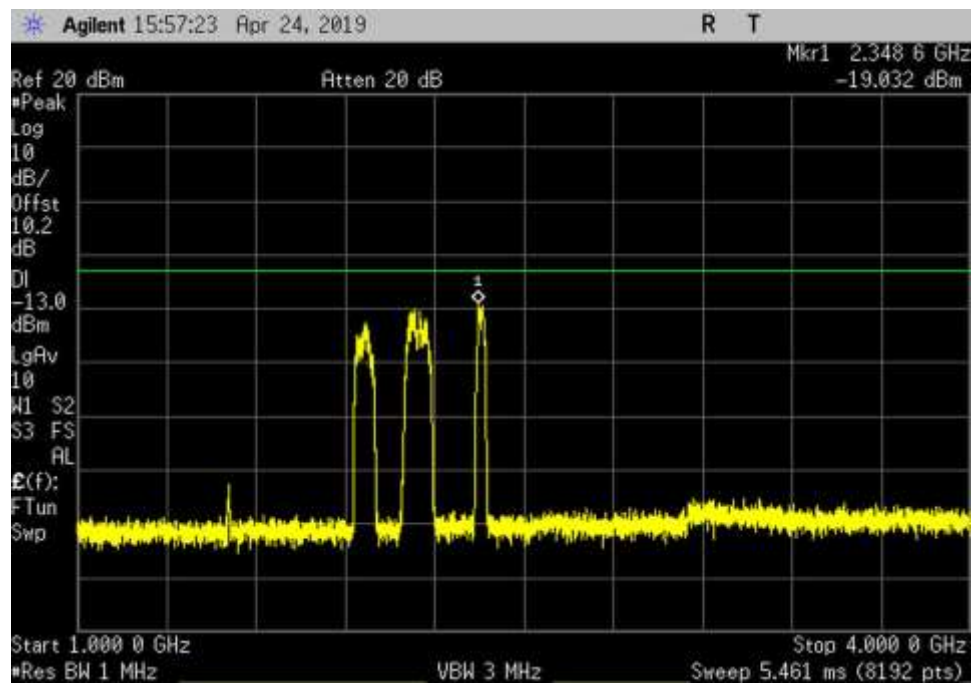
DL_746-757_AWGN_ 757.1- 1000MHz_HC



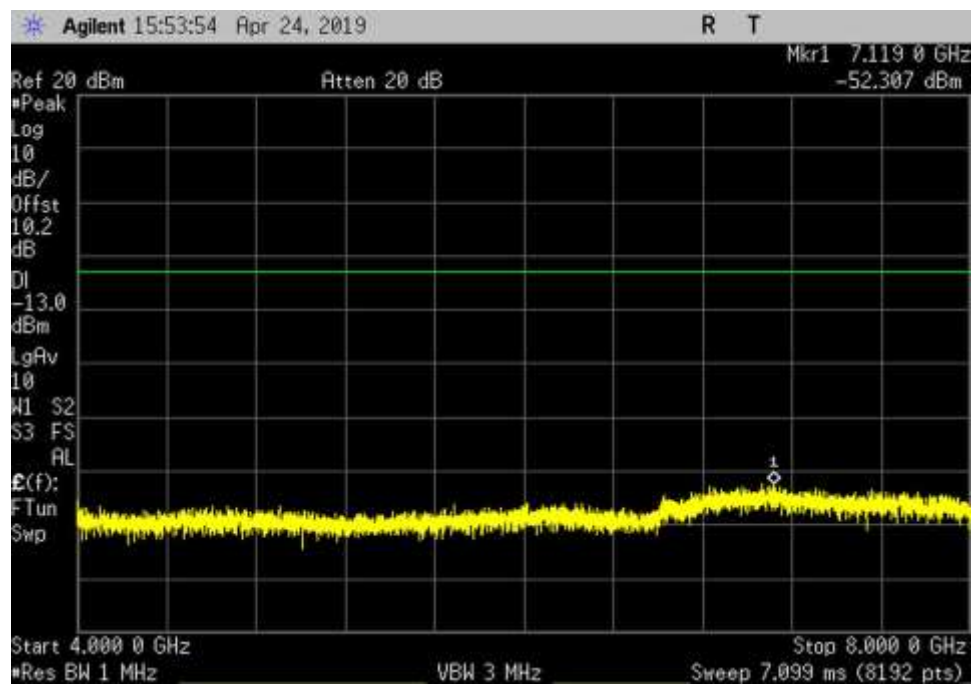
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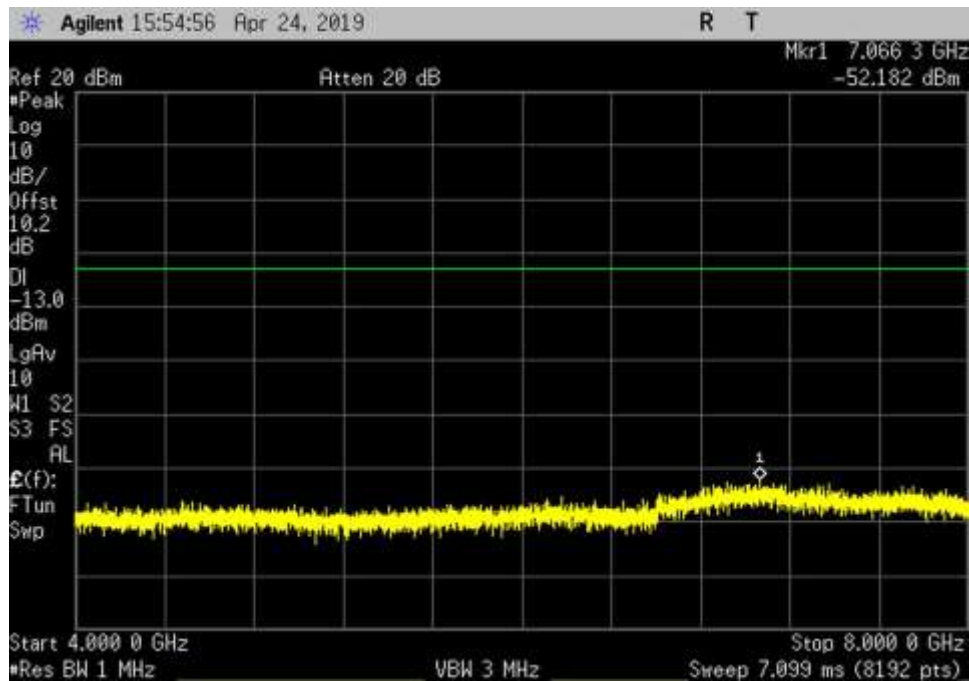
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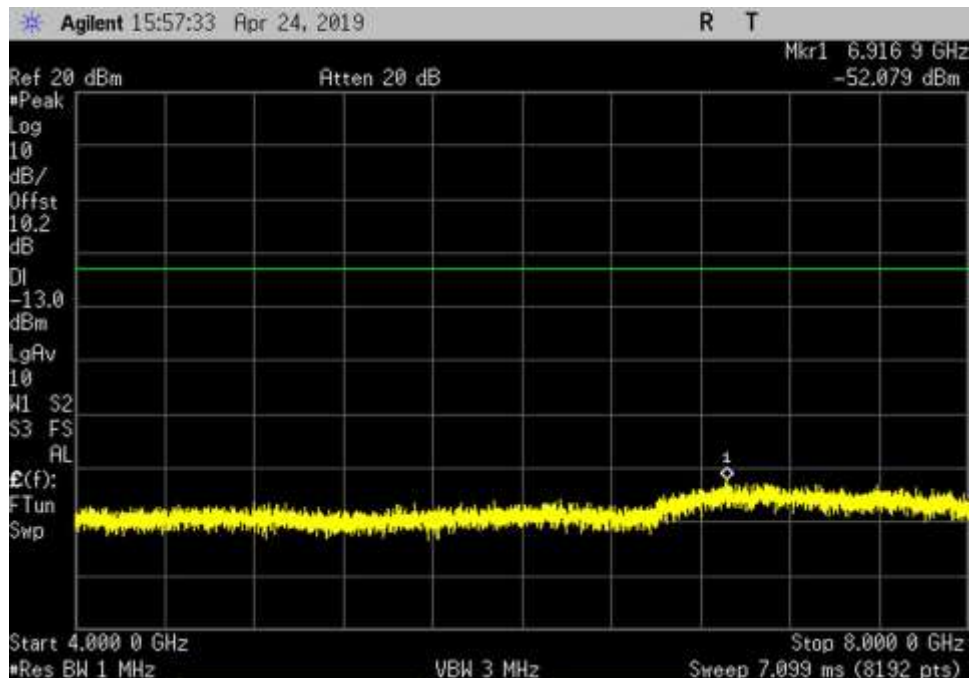
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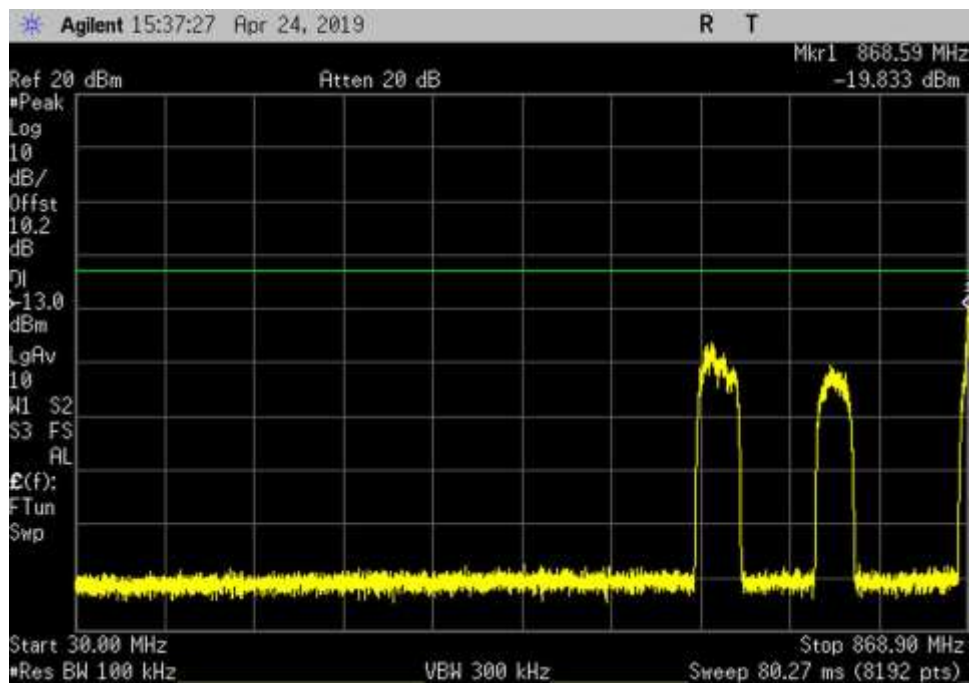
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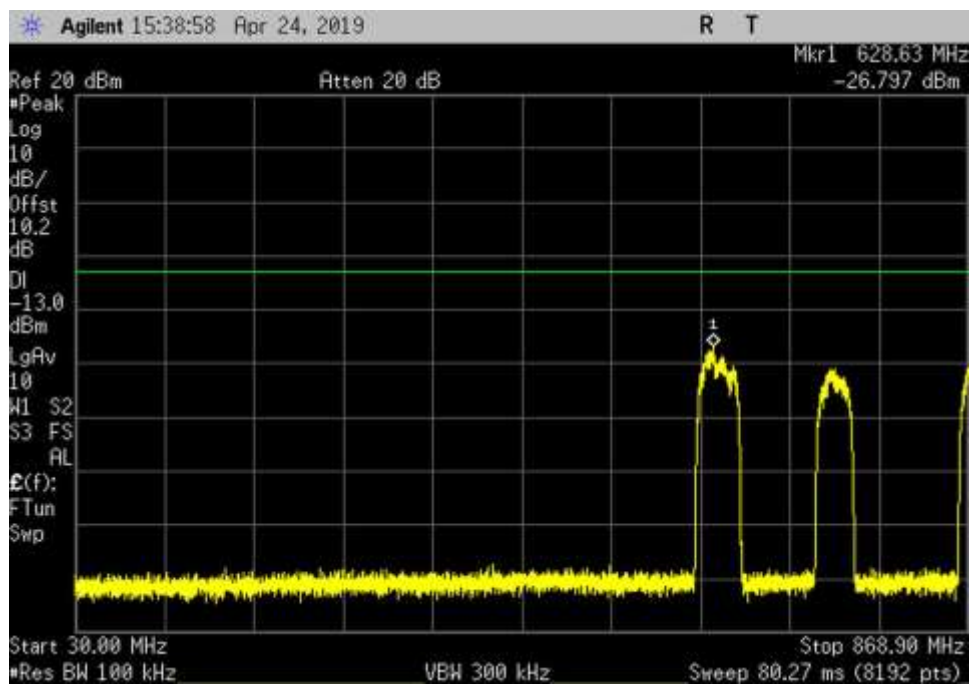
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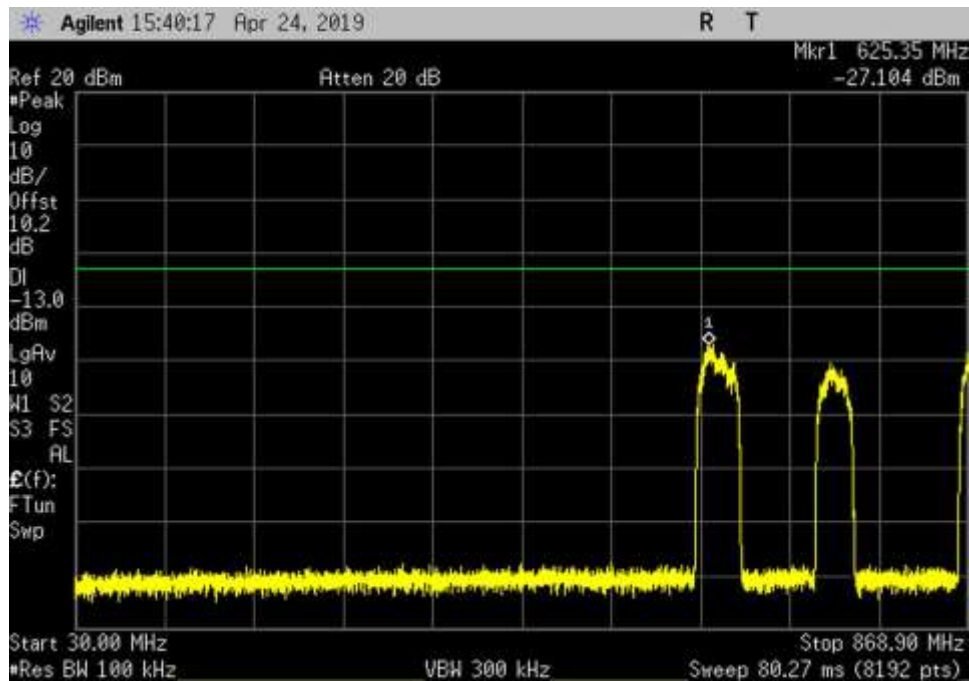
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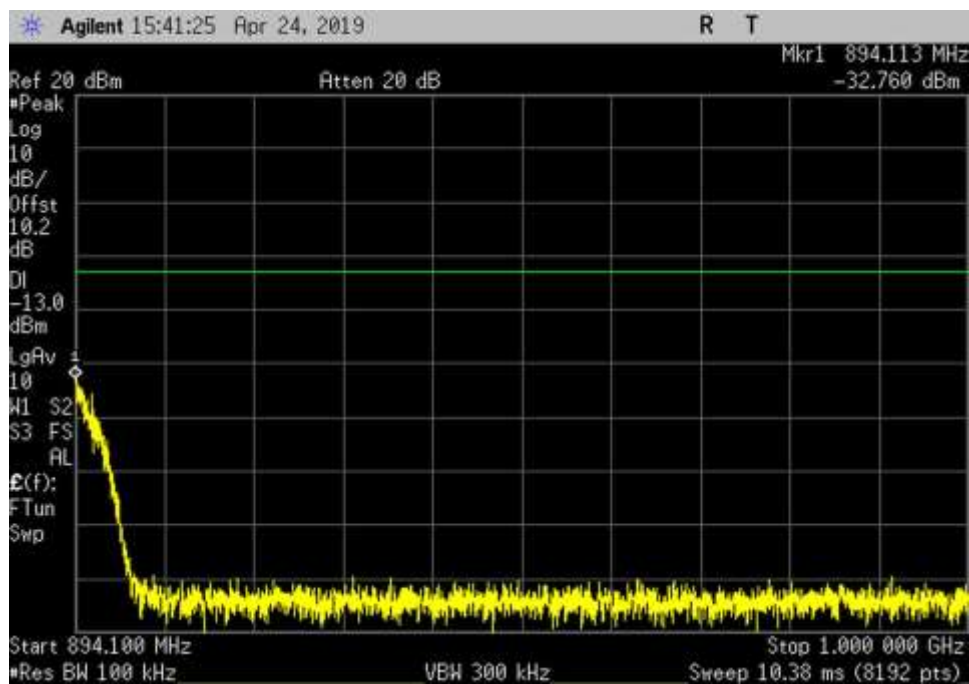
DL_869-894_AWGN_30- 868.9MHz_LC



DL_869-894_AWGN_30- 868.9MHz_MC



DL_869-894_AWGN_30- 868.9MHz_HC



DL_869-894_AWGN_ 894.1- 1000MHz_HC