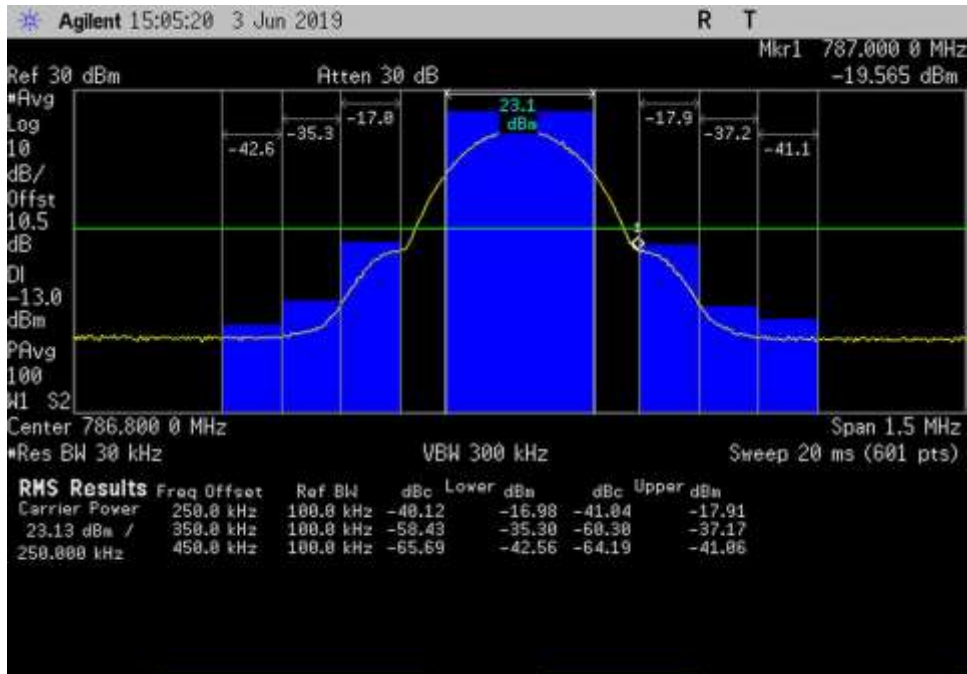
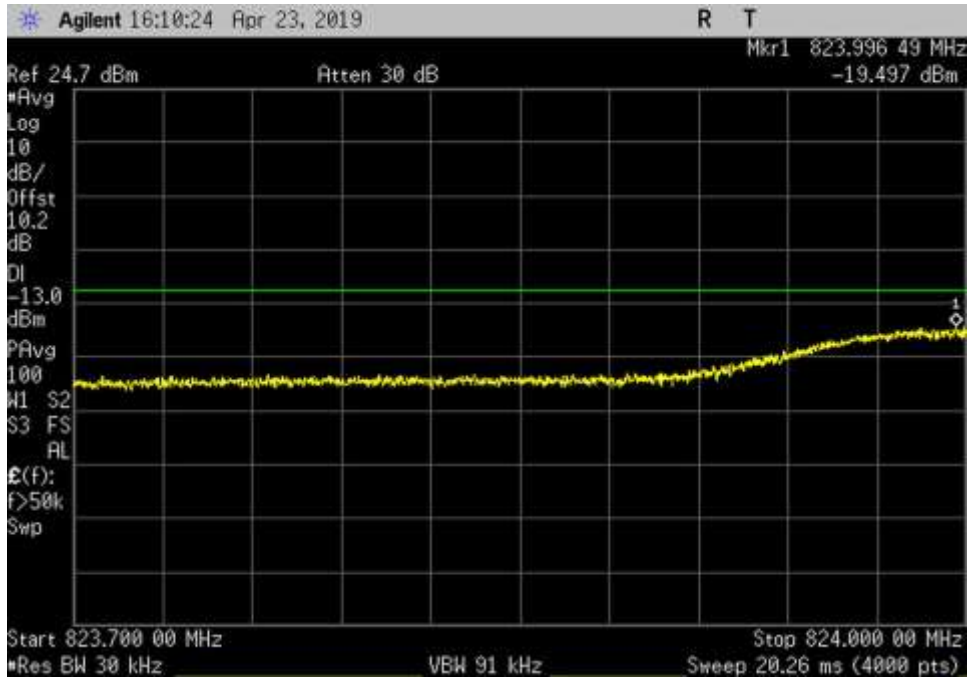


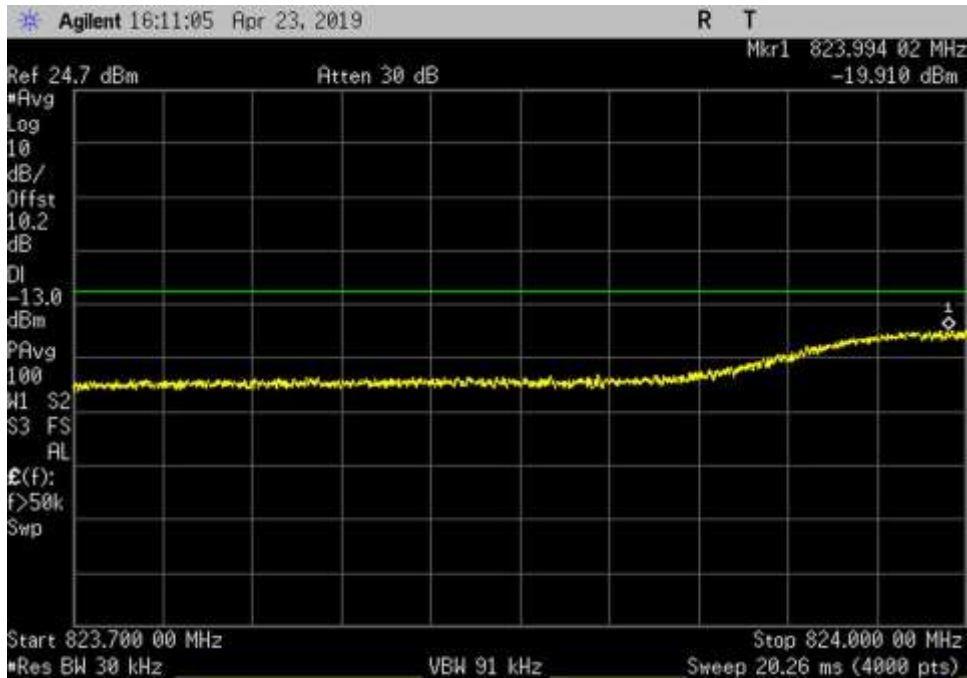
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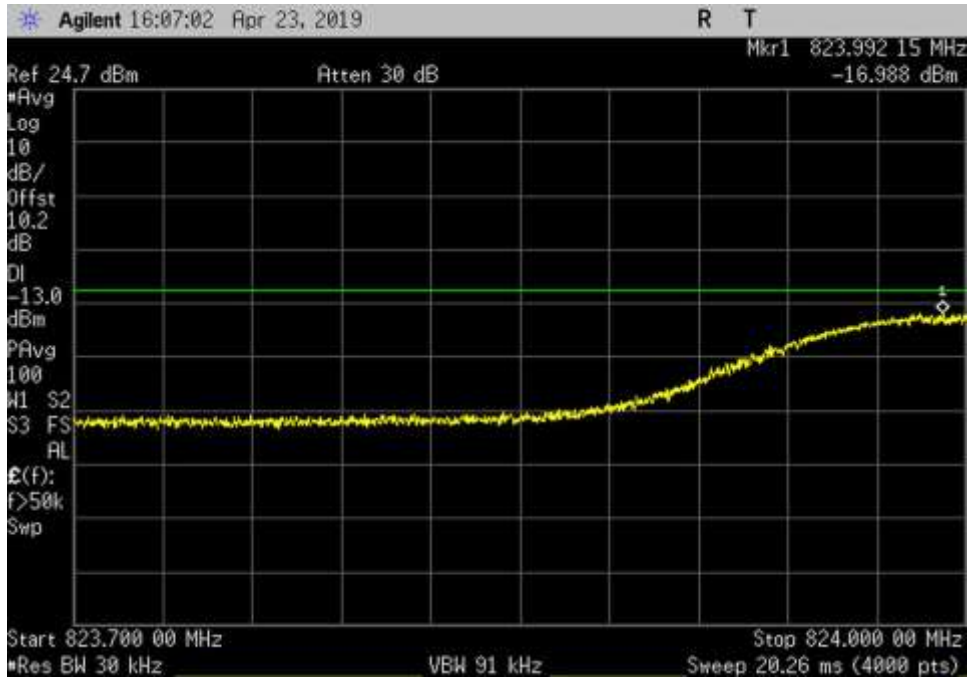
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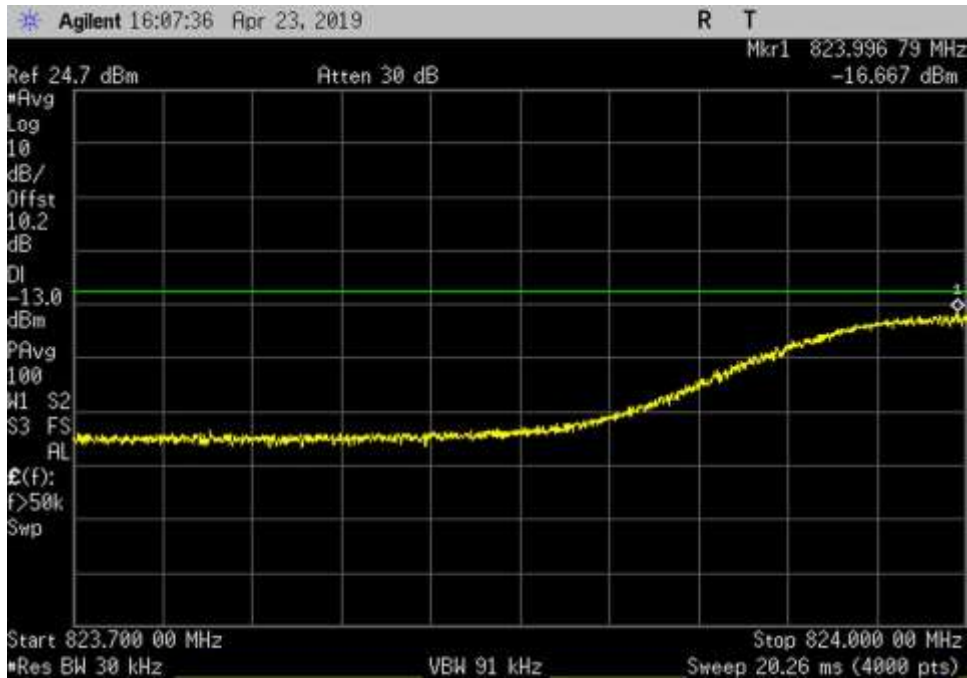
UL\_824-849\_GSM\_ 823.7- 824MHz\_Cm-L



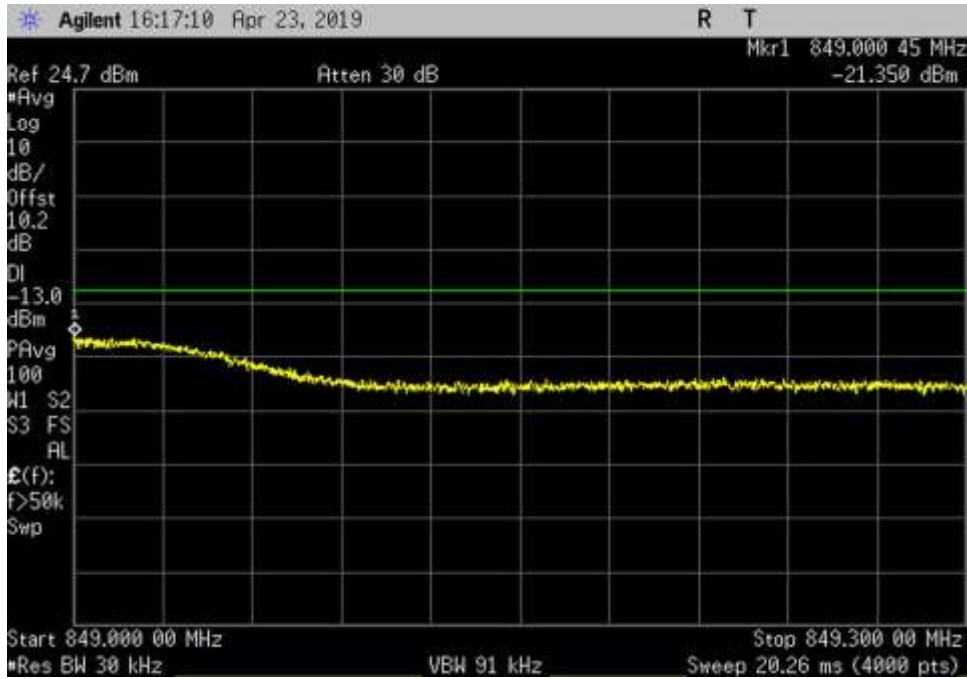
UL\_824-849\_GSM\_ 823.7- 824MHz\_Cm-L+3dB



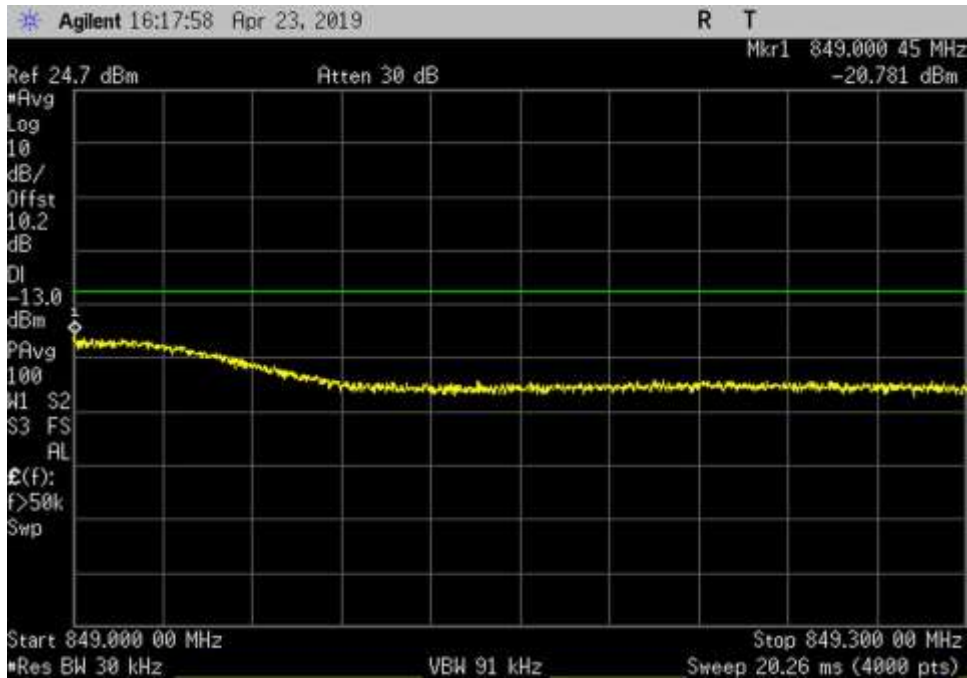
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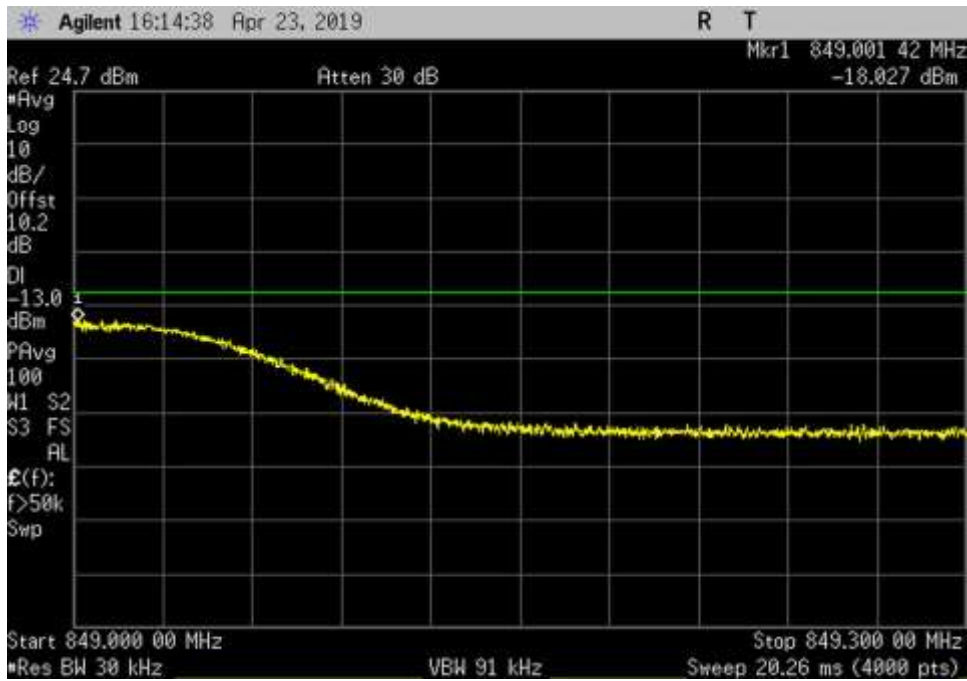
UL\_824-849\_GSM\_ 823.7- 824MHz\_Sn-L+3dB



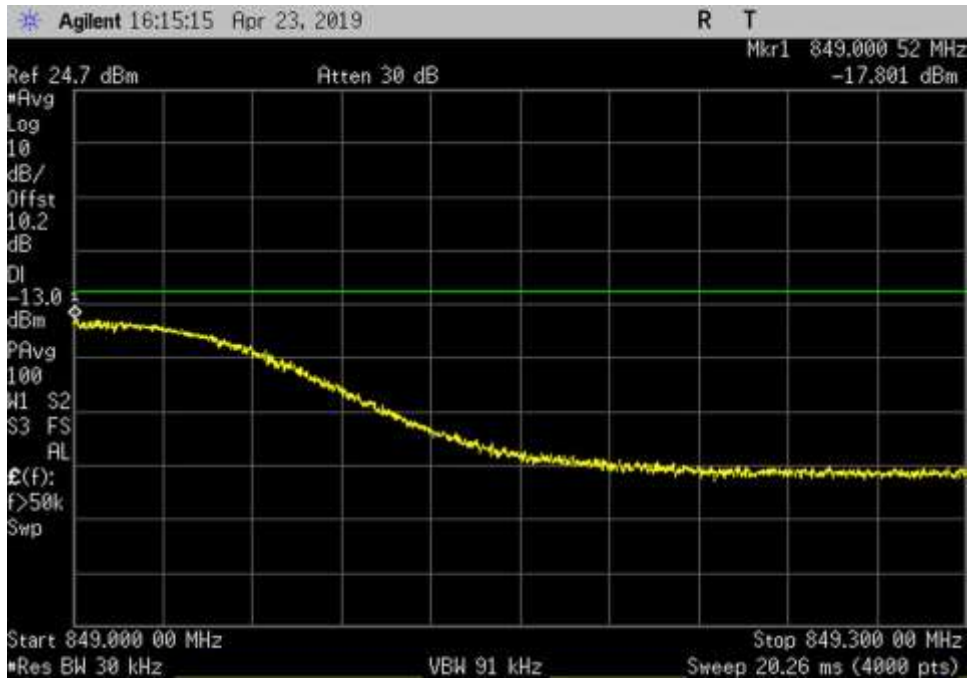
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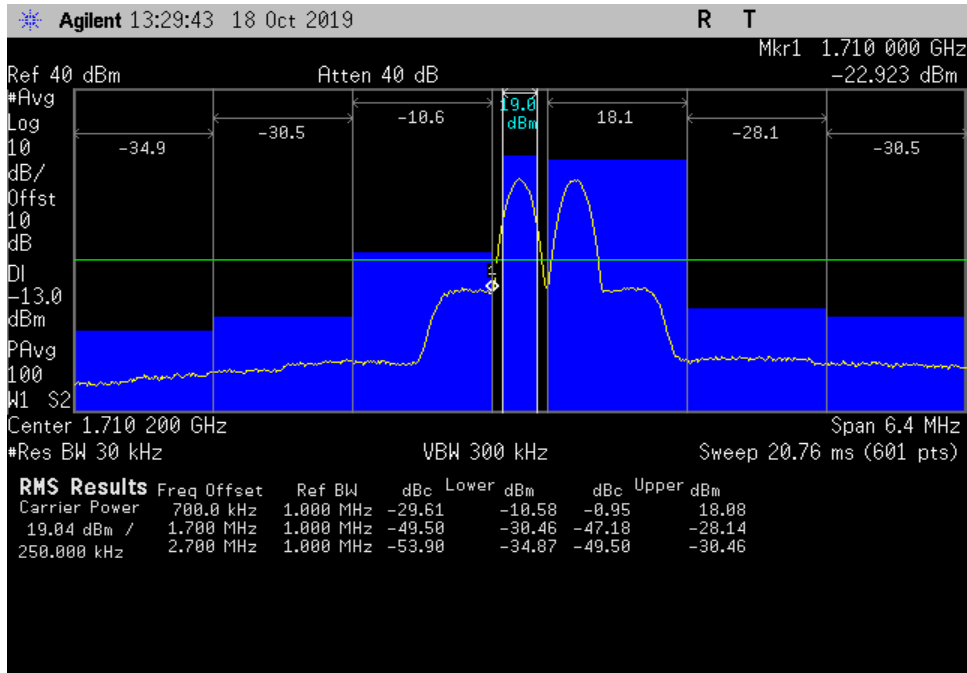
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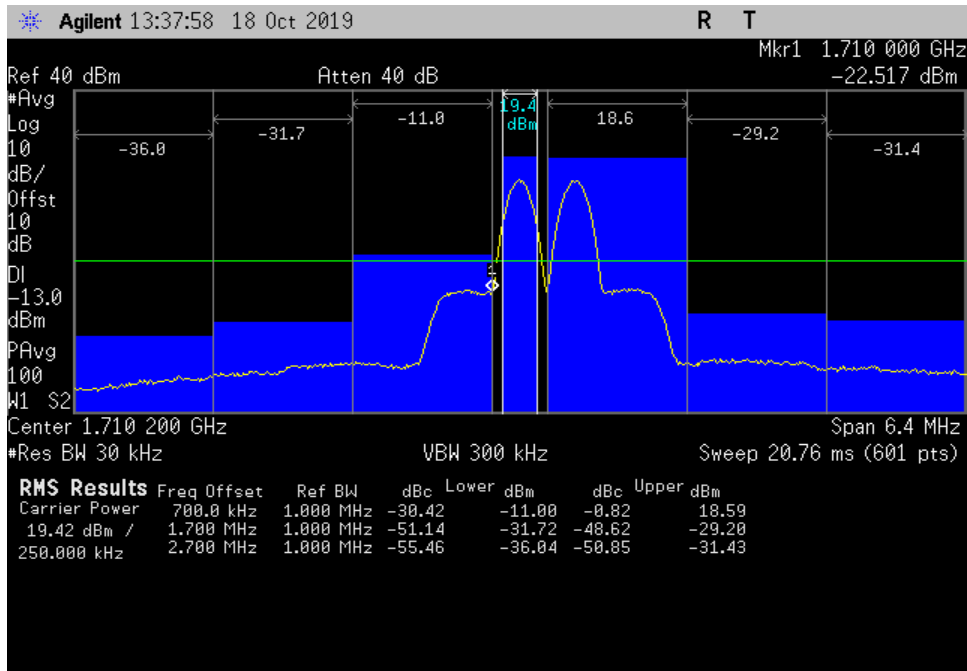
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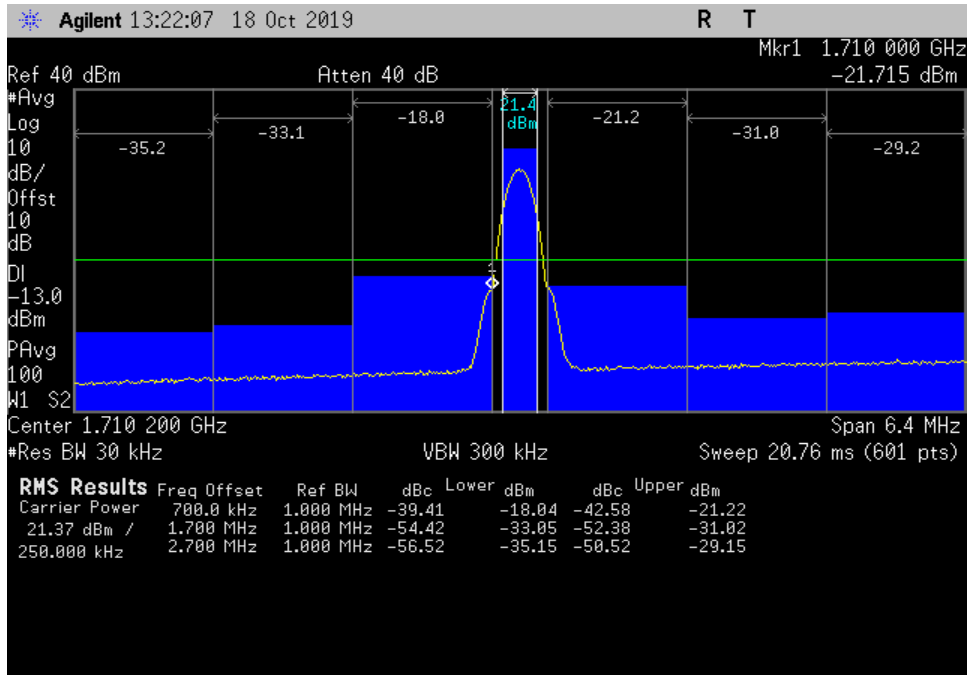
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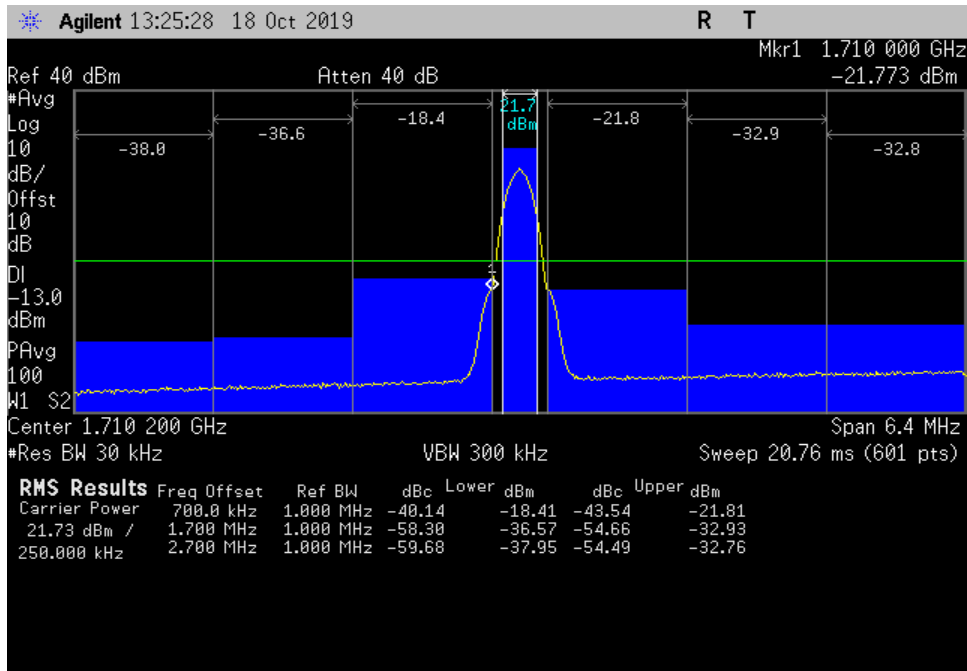
UL\_1710-1755\_GSM\_1707-1713.4MHz\_Cm-L



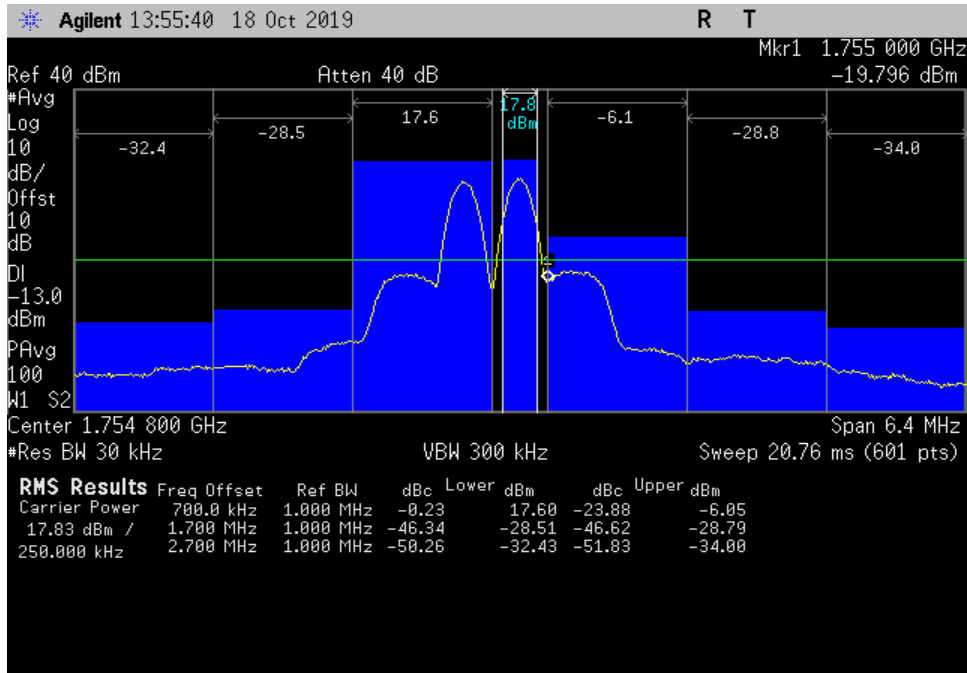
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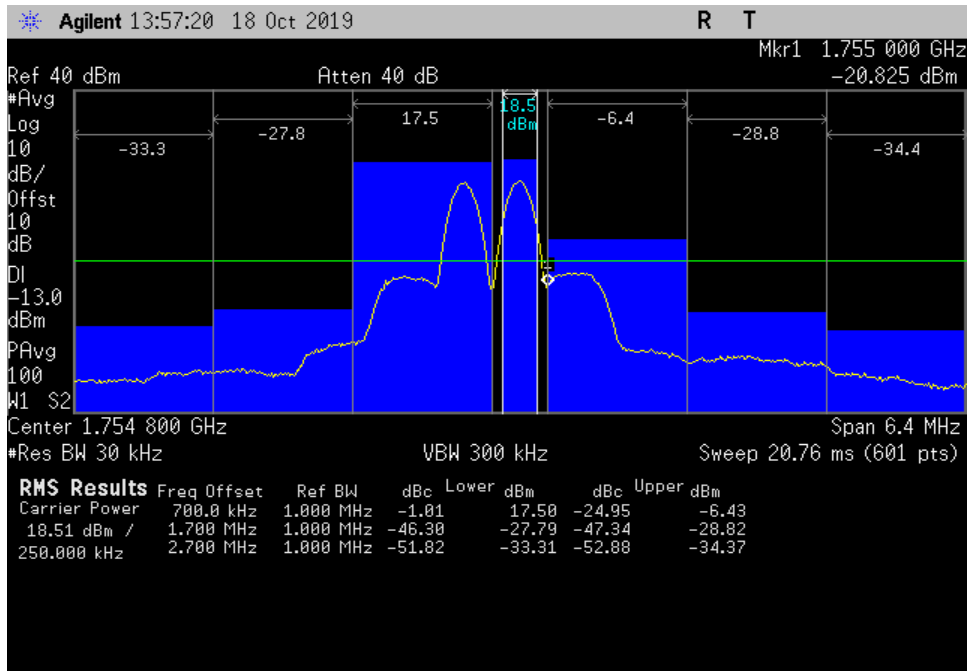
UL\_1710-1755\_GSM\_1707-1713.4MHz\_Sn-L



UL\_1710-1755\_GSM\_1707-1713.4MHz\_Sn-L+3dB

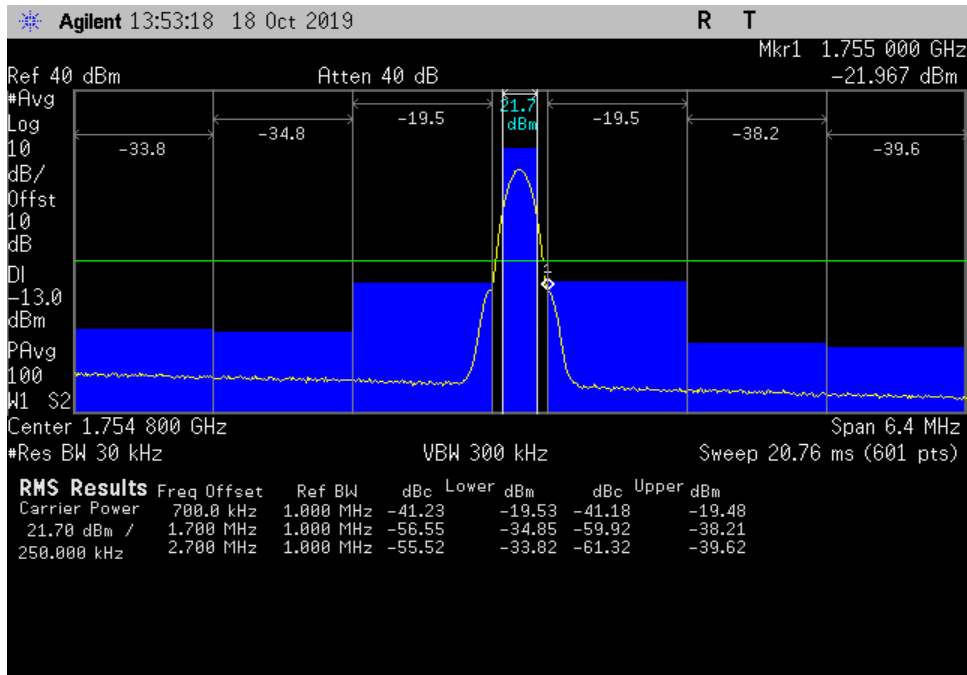


UL\_1710-1755\_GSM\_1751.6-1758MHz\_Cm\_H

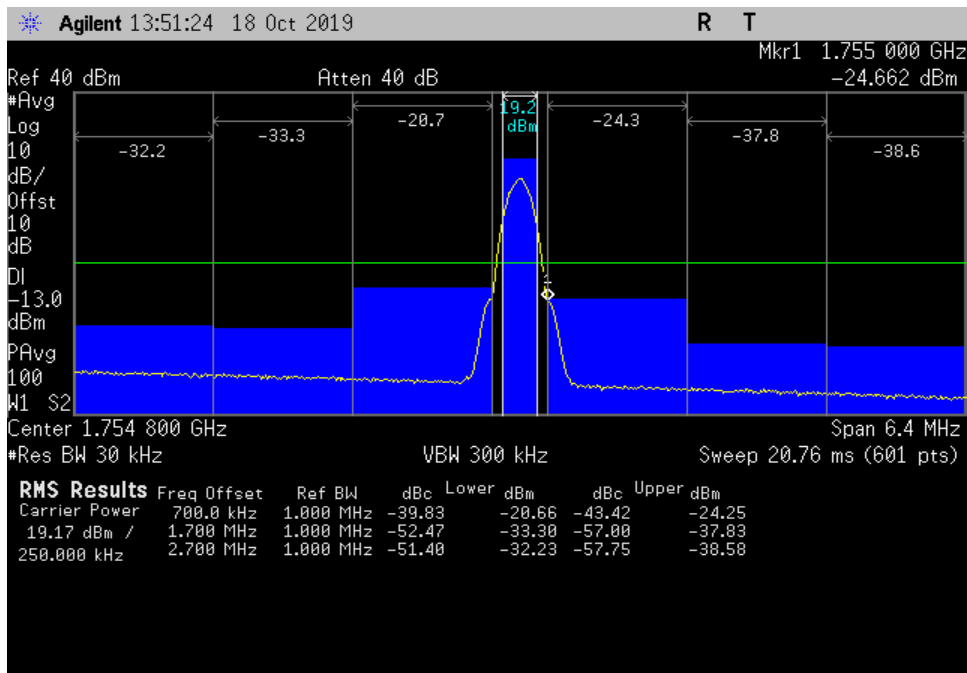


UL\_1710-1755\_GSM\_1751.6-1758MHz\_Cm\_H+3dB

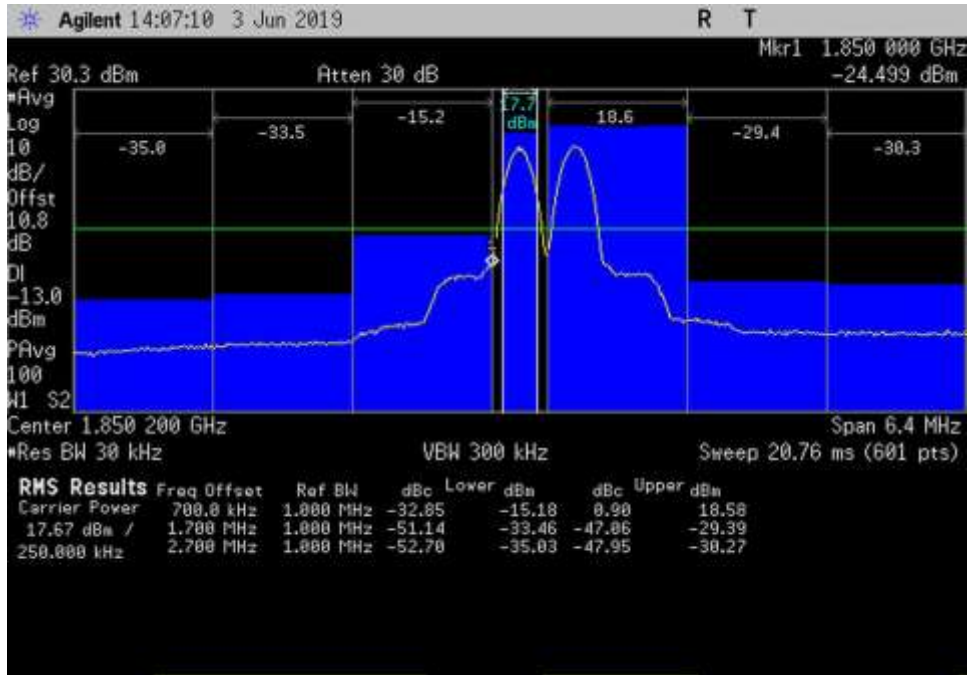




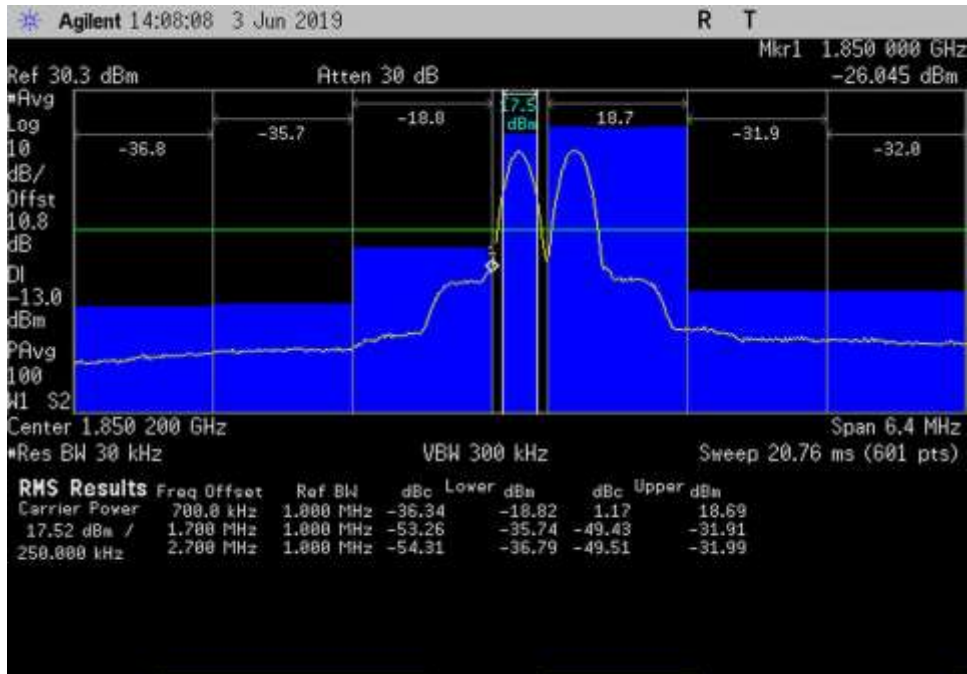
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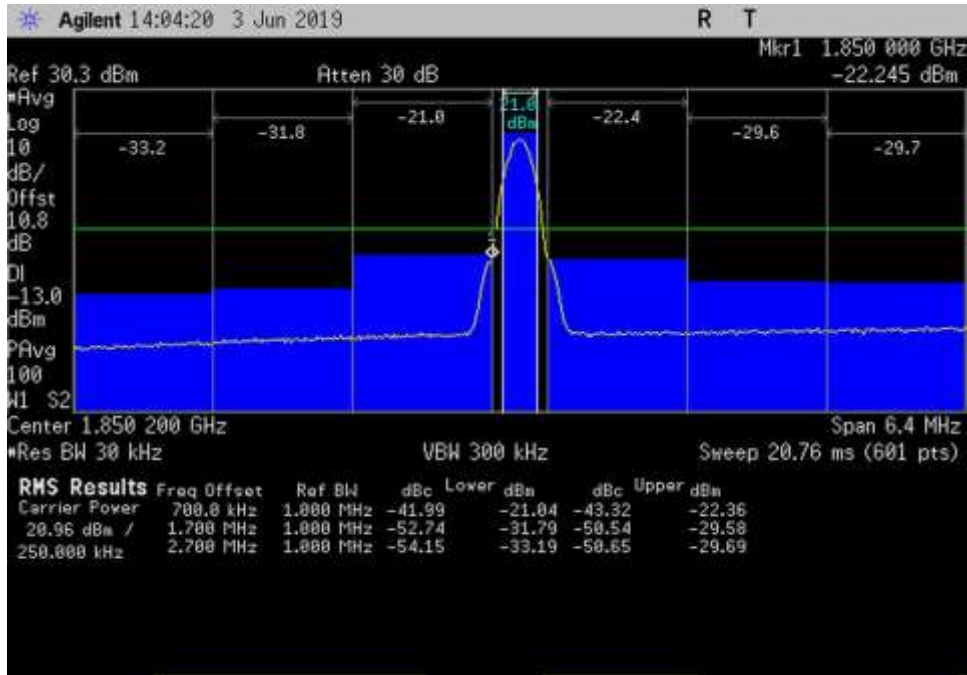
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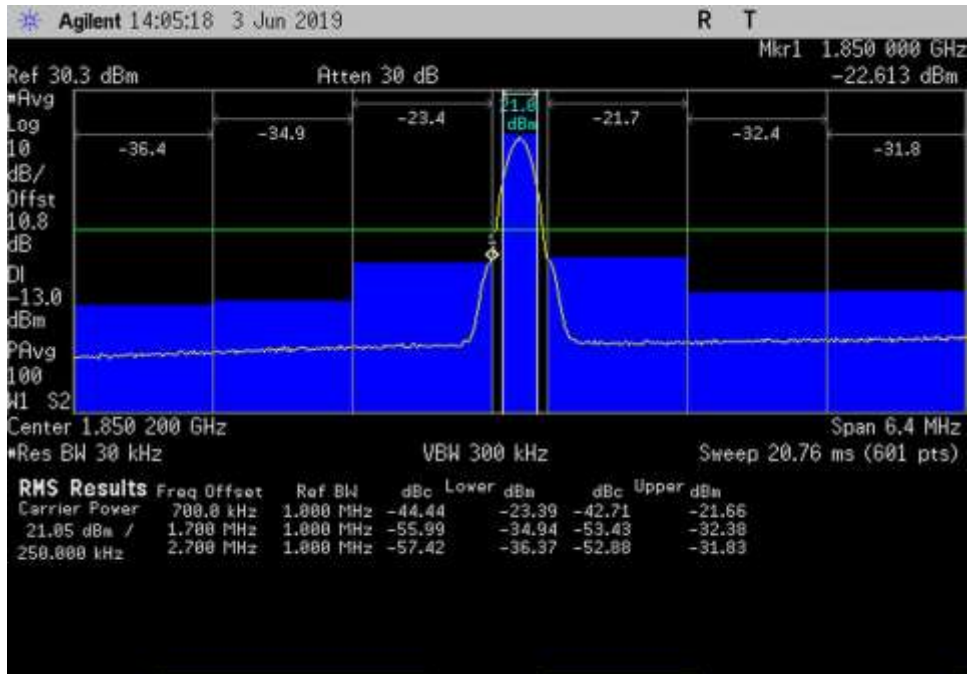
UL\_1850-1915\_GSM\_1847-1850MHz\_Cm-L



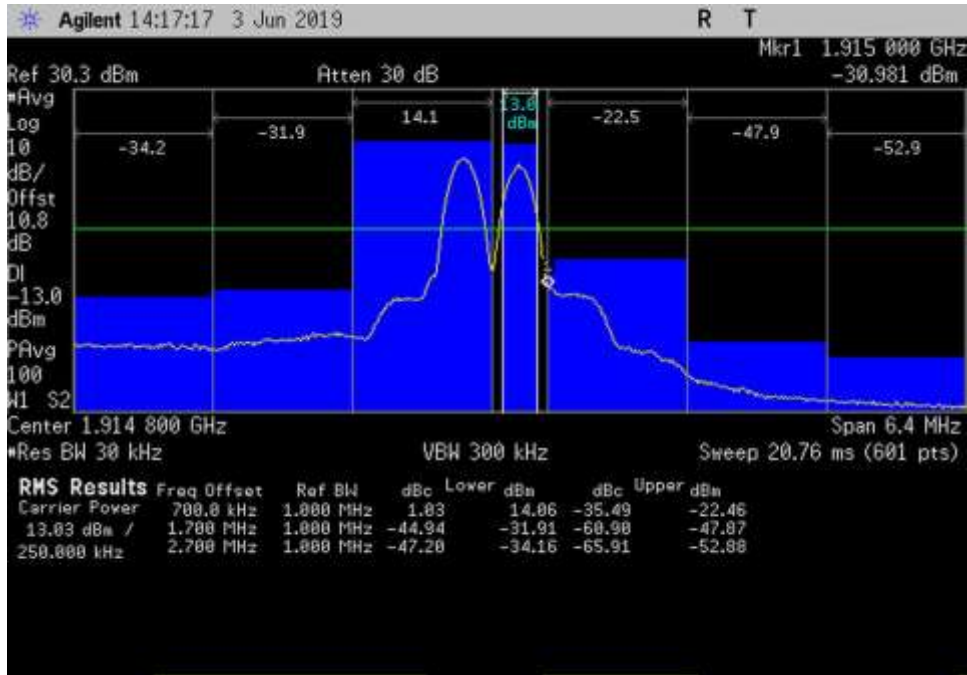
UL\_1850-1915\_GSM\_1847-1850MHz\_Cm-L+3dB



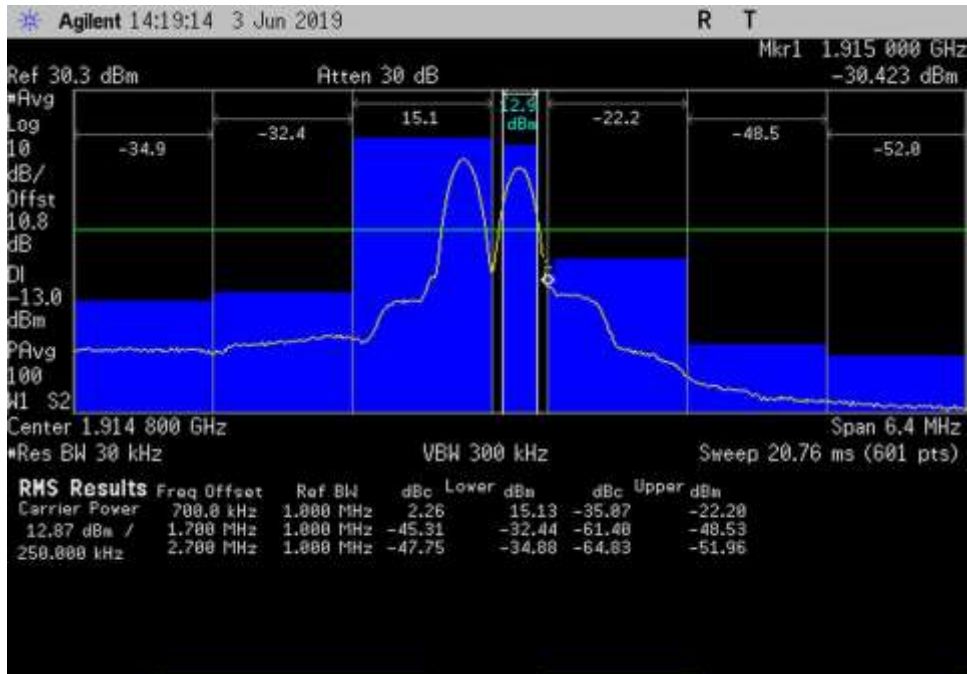
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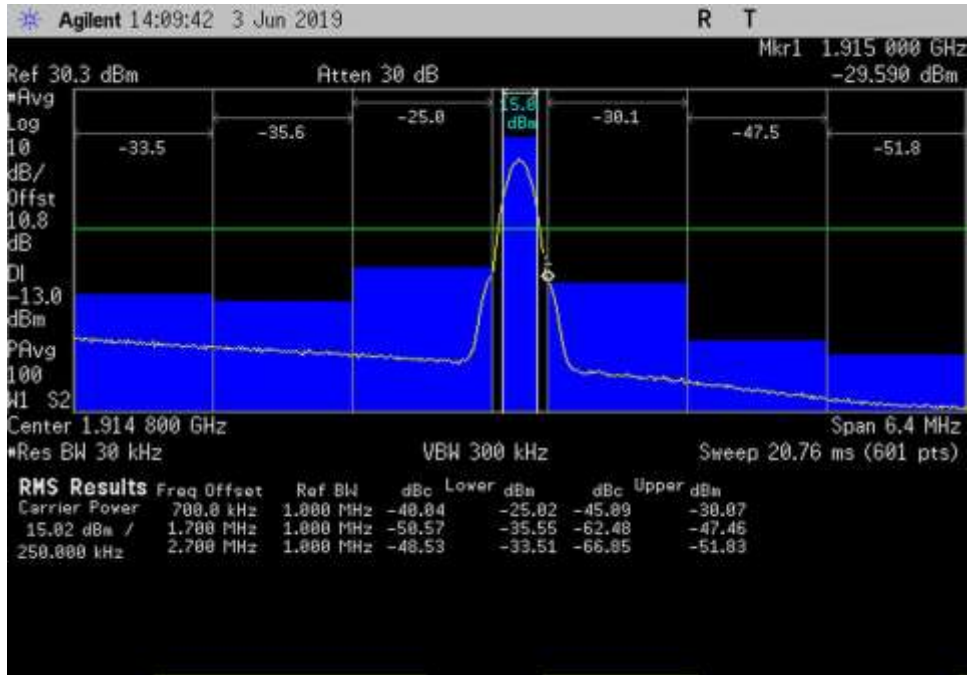
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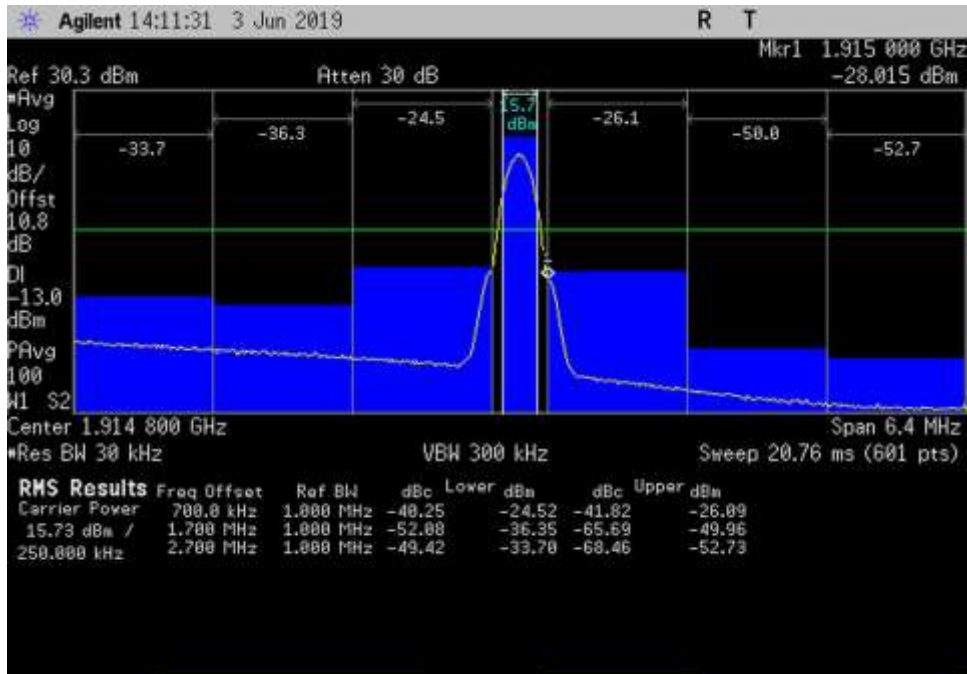
UL\_1850-1915\_GSM\_1915-1918MHz\_Cm-H



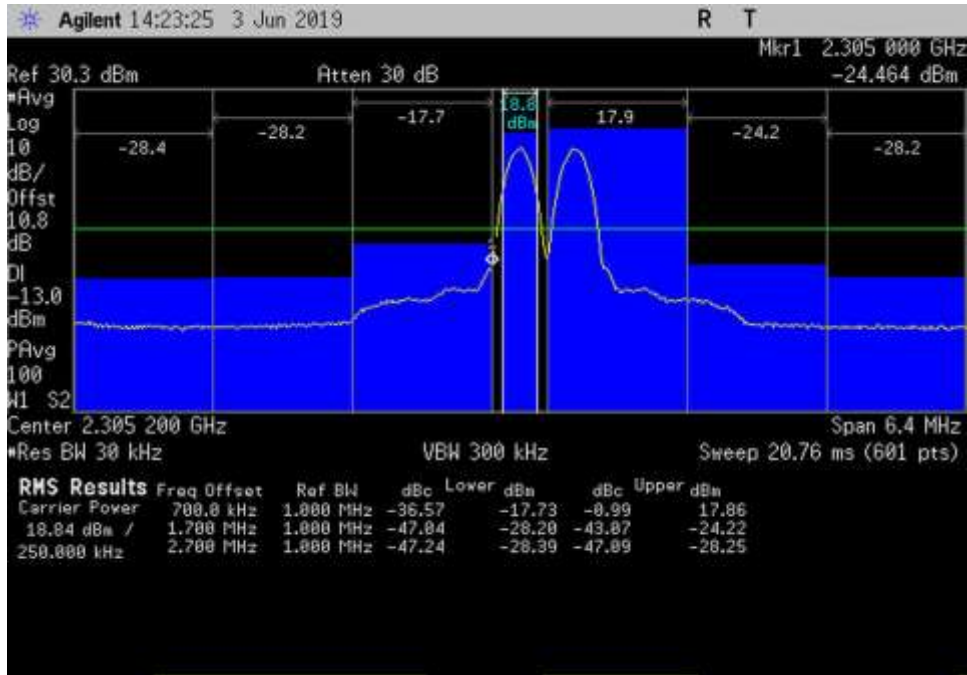
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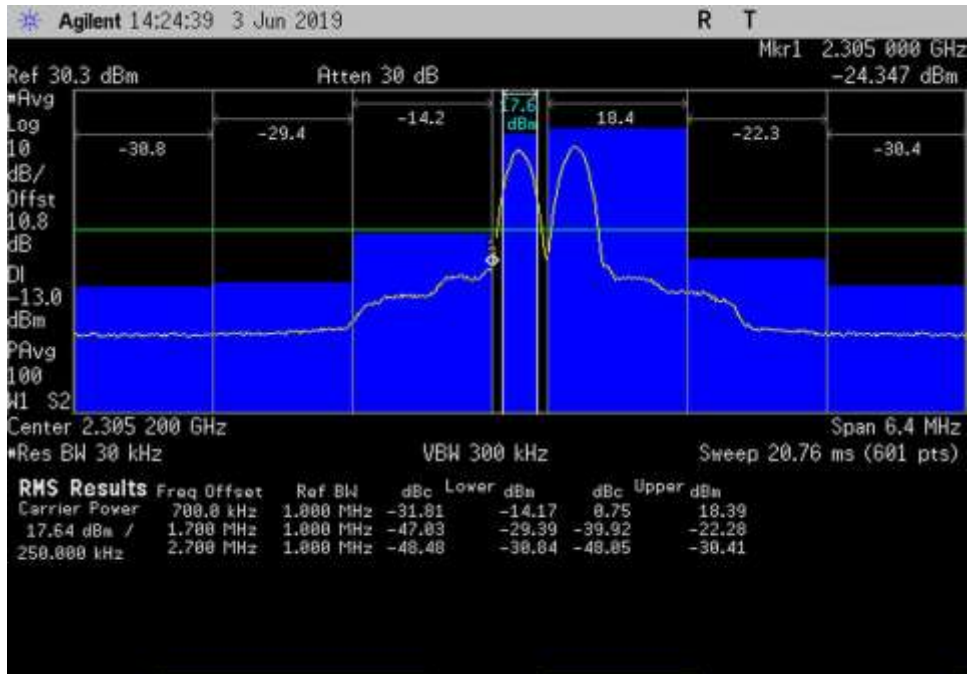
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UL\_1850-1915\_GSM\_1915-1918MHz\_Sn-H+3dB

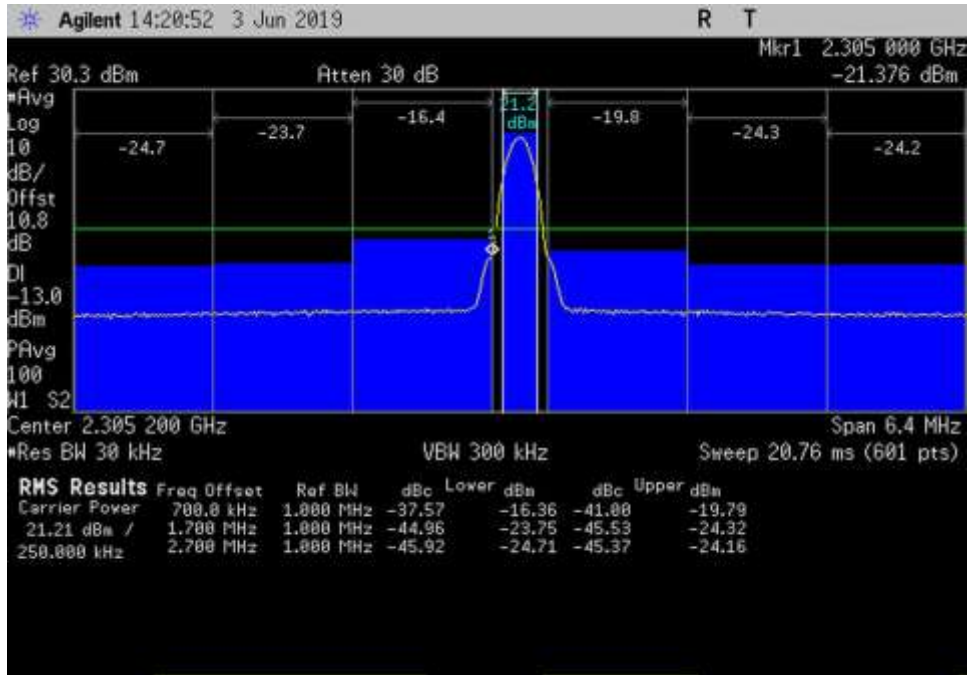


UL\_2305-2315\_GSM\_2302-2305MHz\_Cm-L

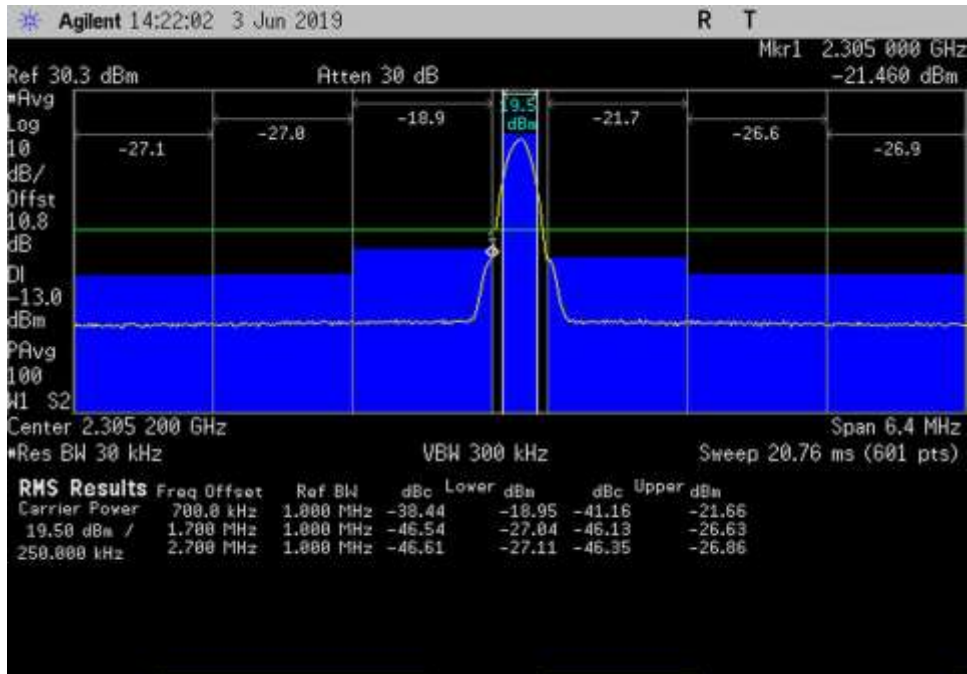


UL\_2305-2315\_GSM\_2302-2305MHz\_Cm-L+3dB

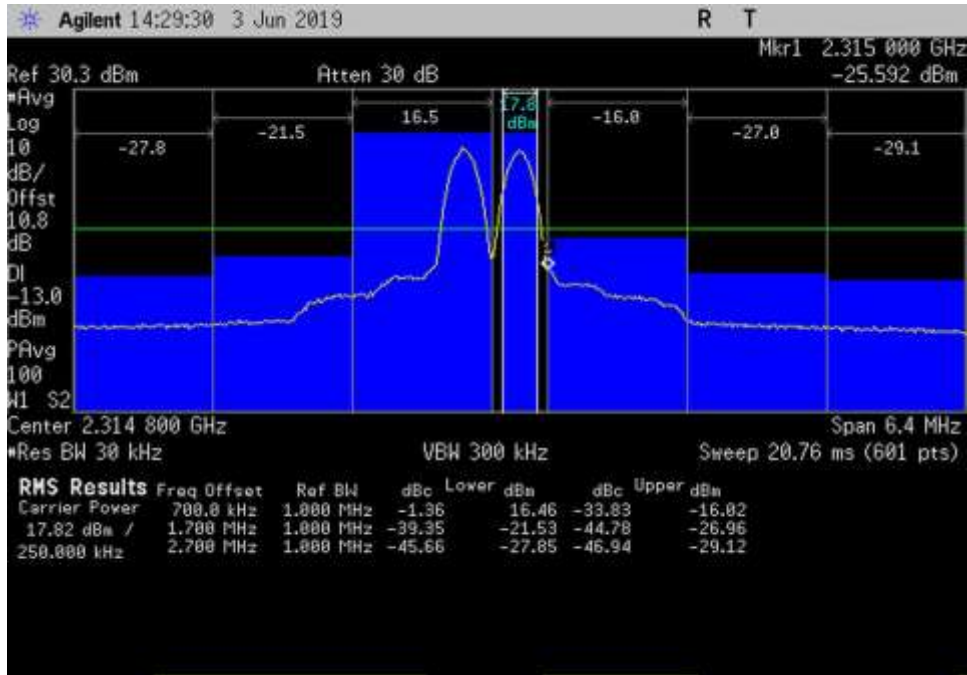




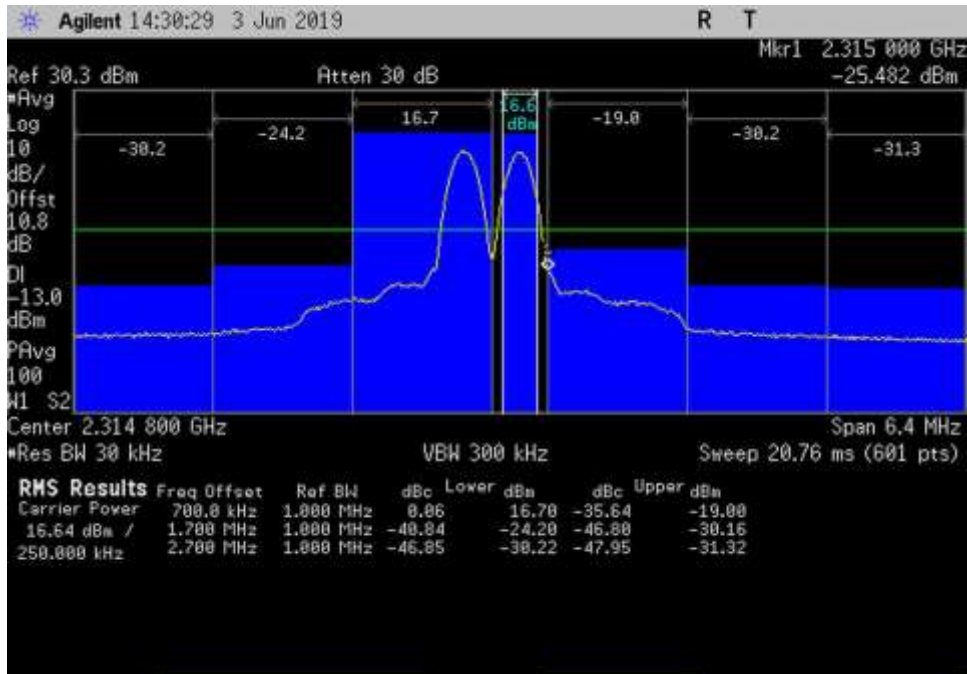
L\_2305-2315\_GSM\_2302-2305MHz\_Sn-L



UL\_2305-2315\_GSM\_2302-2305MHz\_Sn-L+3dB

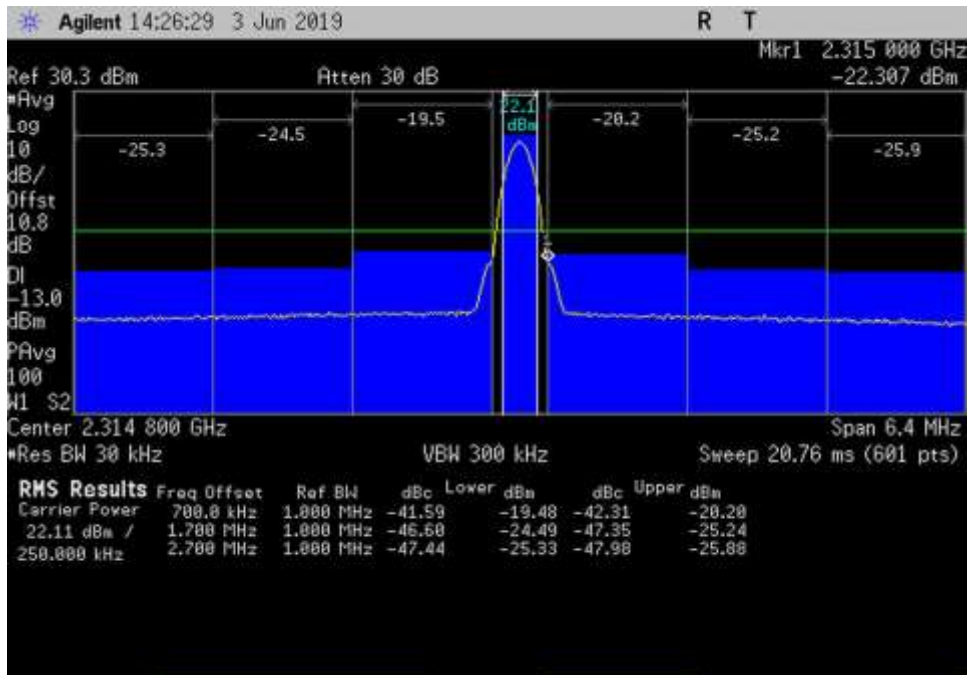


UL\_2305-2315\_GSM\_2315-2318MHz\_Cm-H

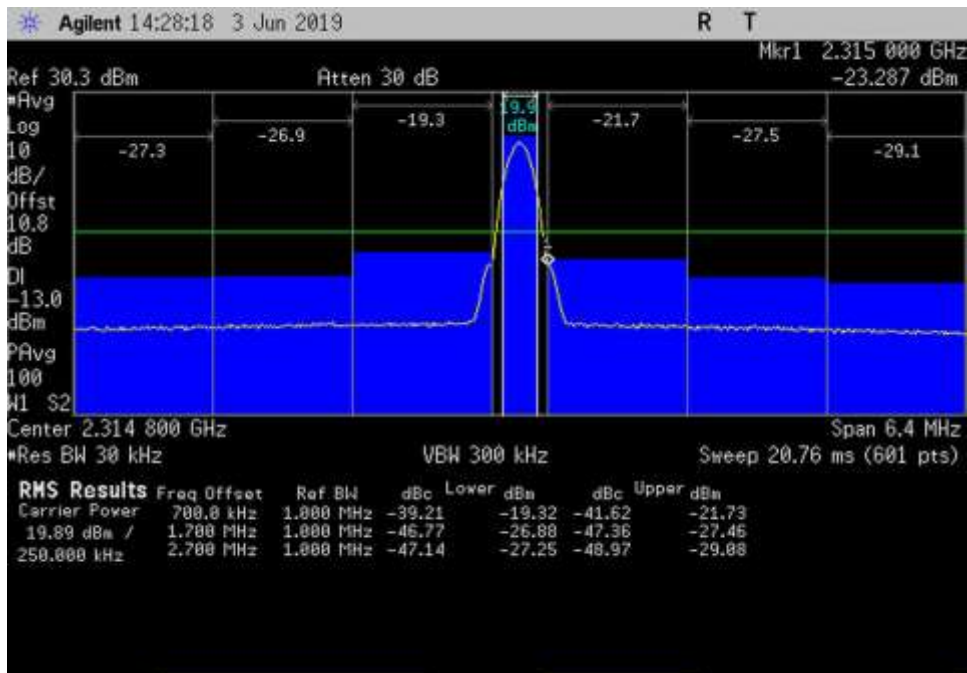


UL\_2305-2315\_GSM\_2315-2318MHz\_Cm-H+3dB

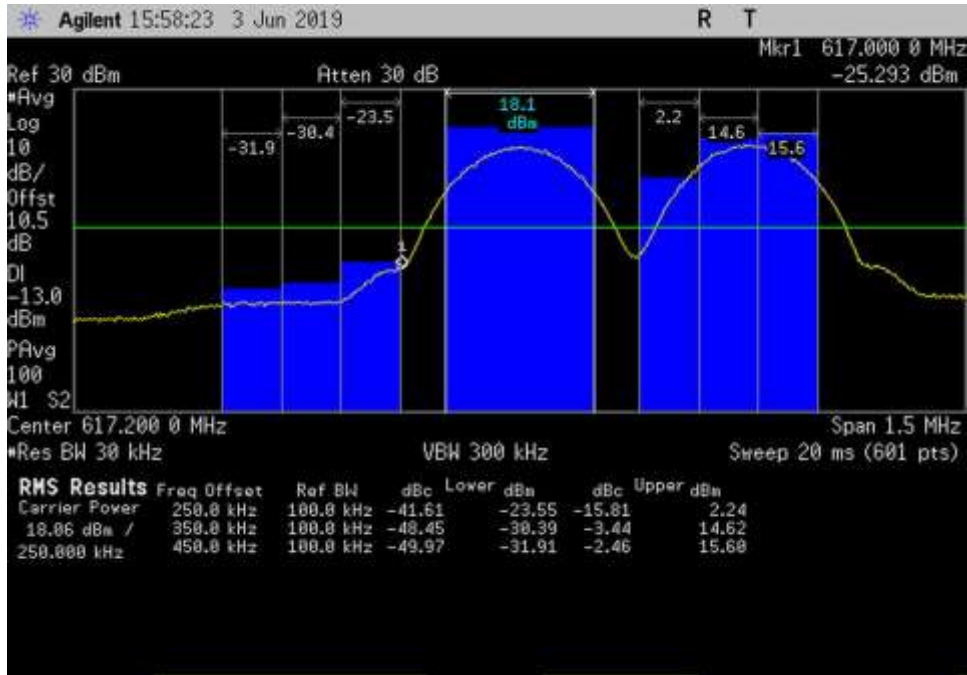




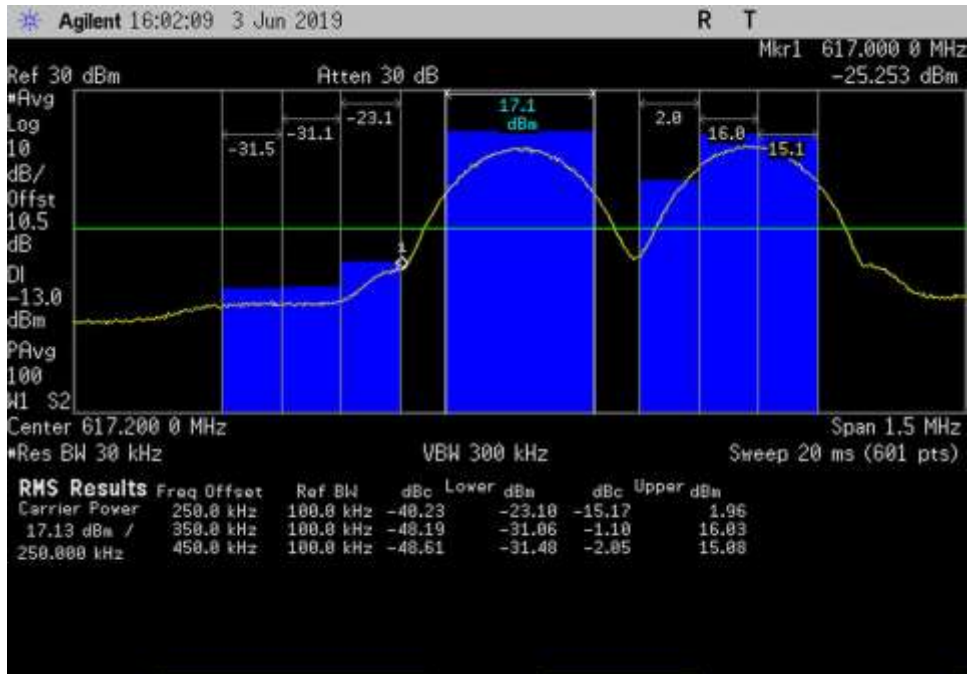
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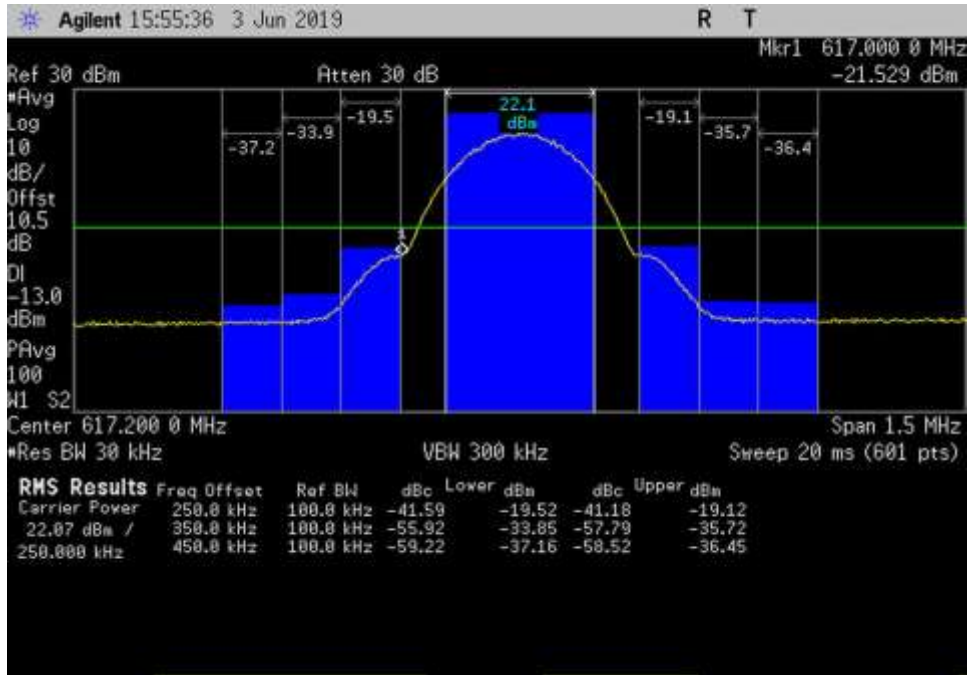
UL\_2305-2315\_GSM\_2315-2318MHz\_Sn-H+3dB



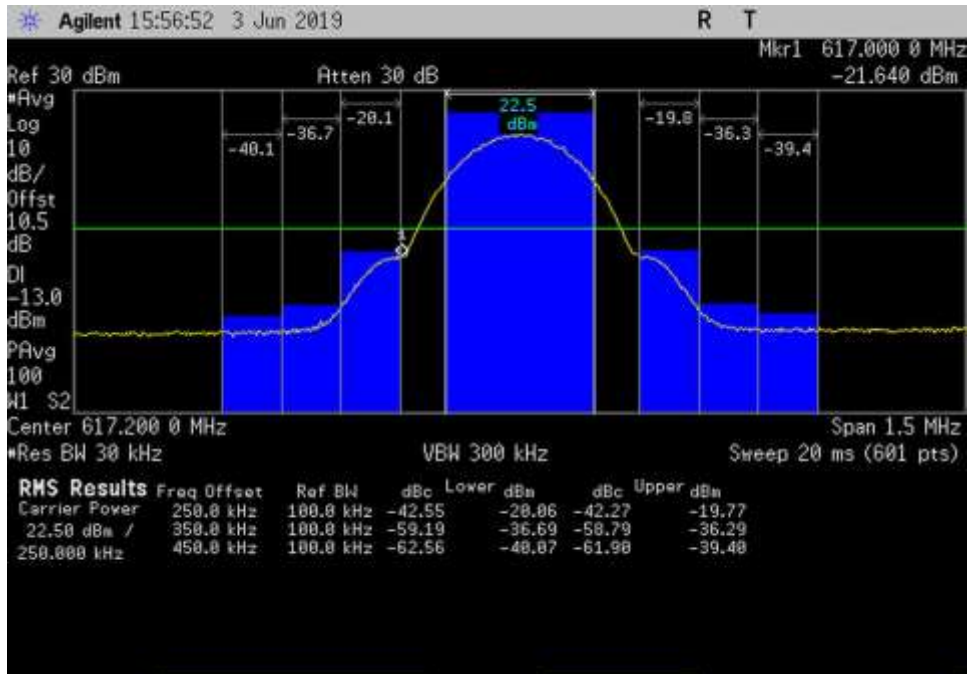
DL\_617-652\_GSM\_616.7-617MHz\_Cm-L



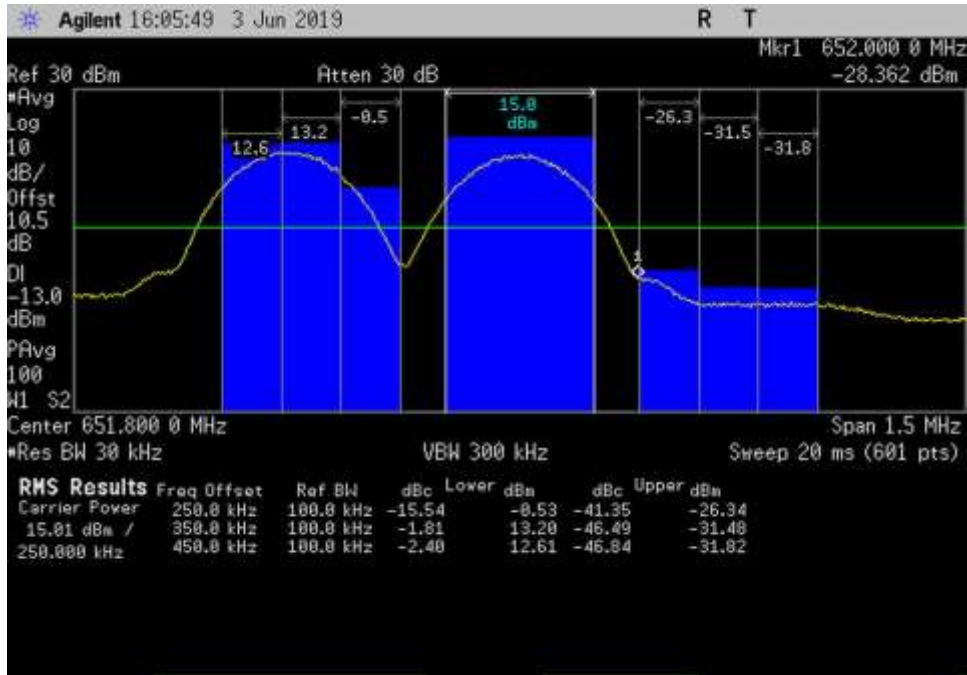
DL\_617-652\_GSM\_616.7-617MHz\_Cm-L+3dB



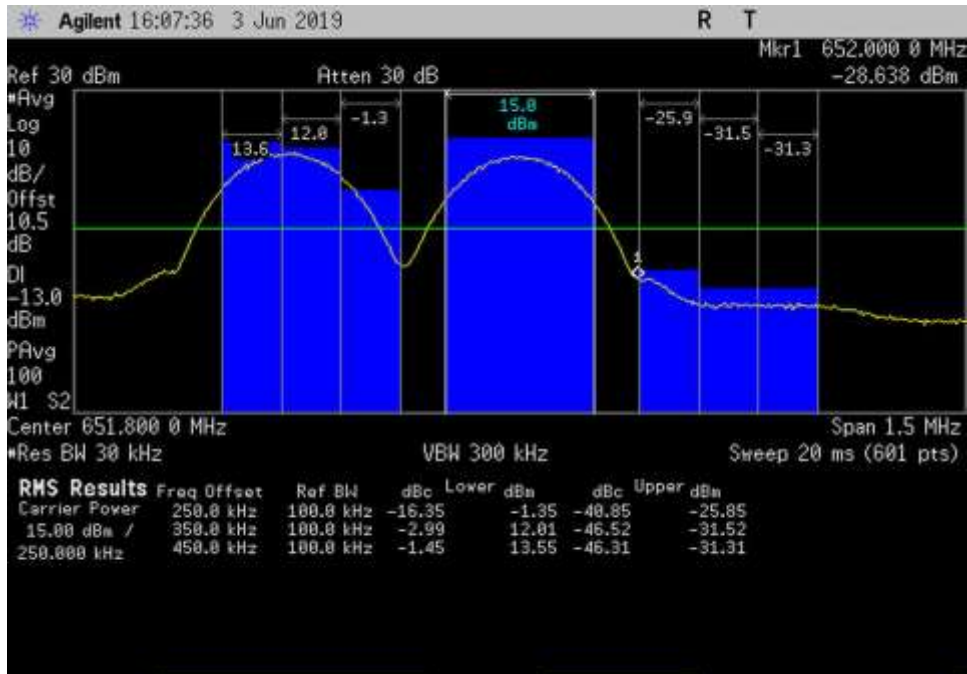
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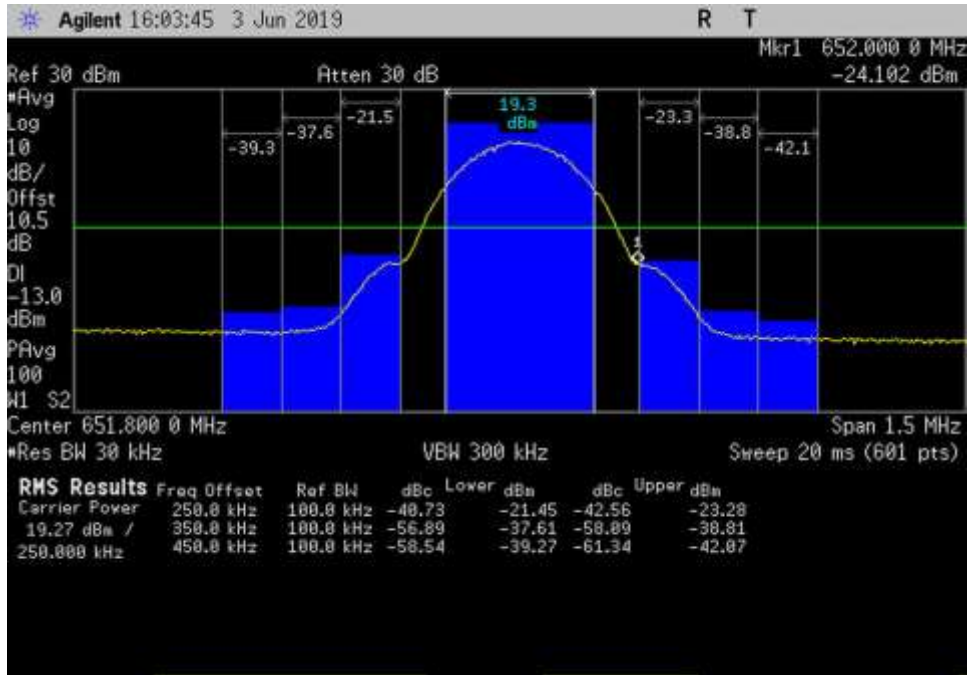
DL\_617-652\_GSM\_616.7-617MHz\_Sn-L+3dB



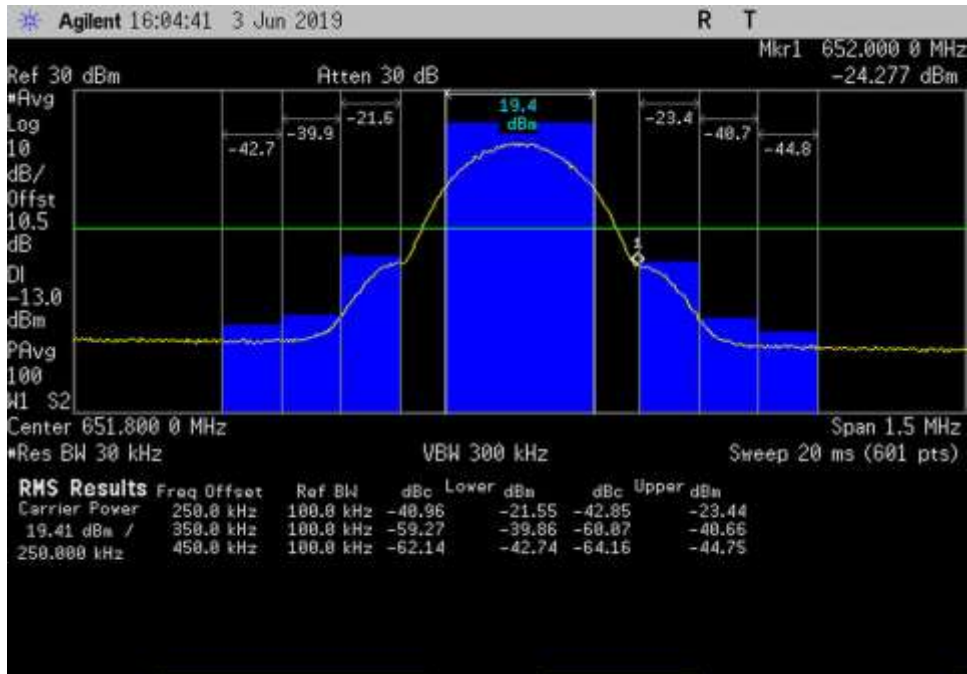
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DL\_617-652\_GSM\_652-652.3MHz\_Cm-H+3dB

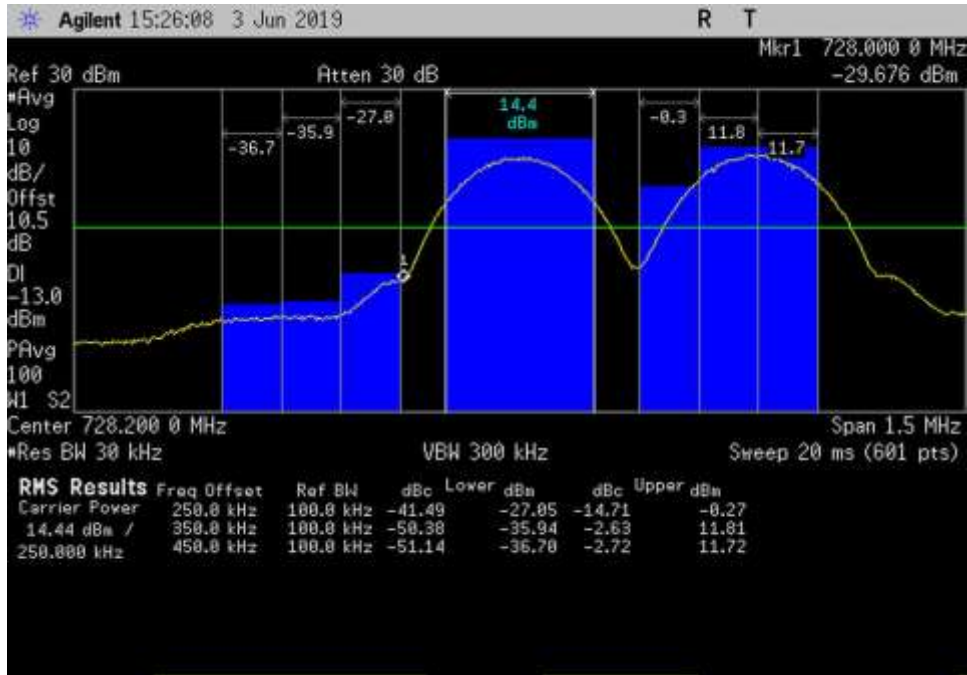


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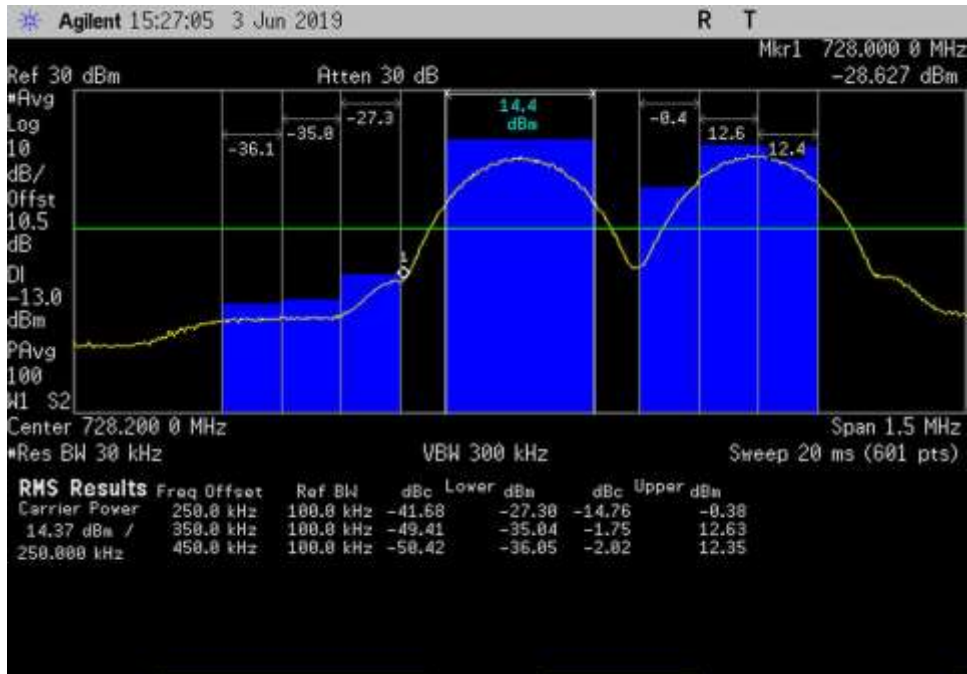


DL\_617-652\_GSM\_652-652.3MHz\_Sn-H+3dB

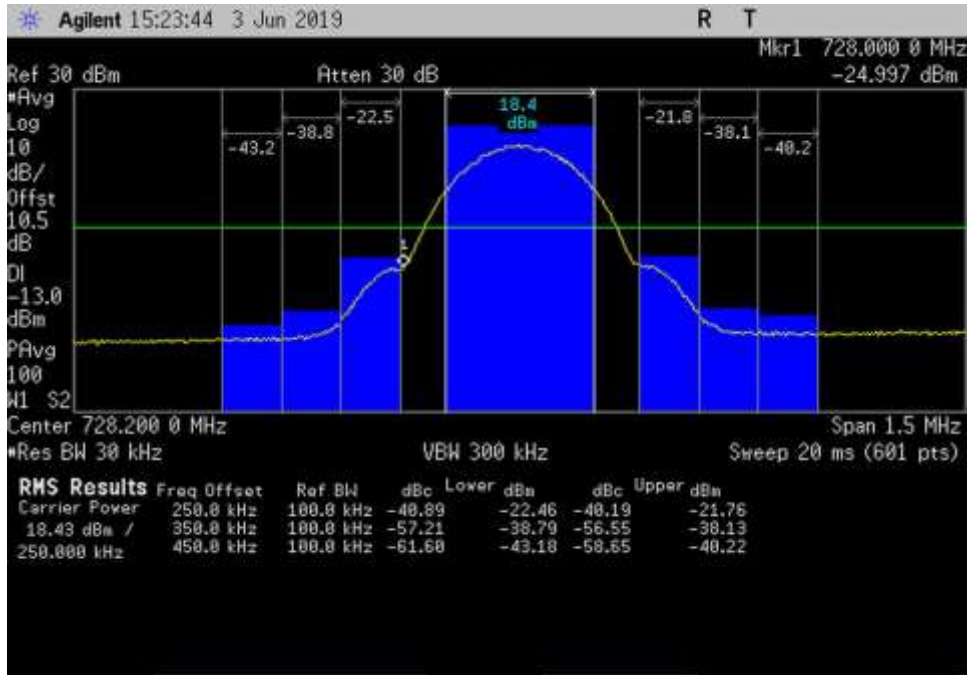




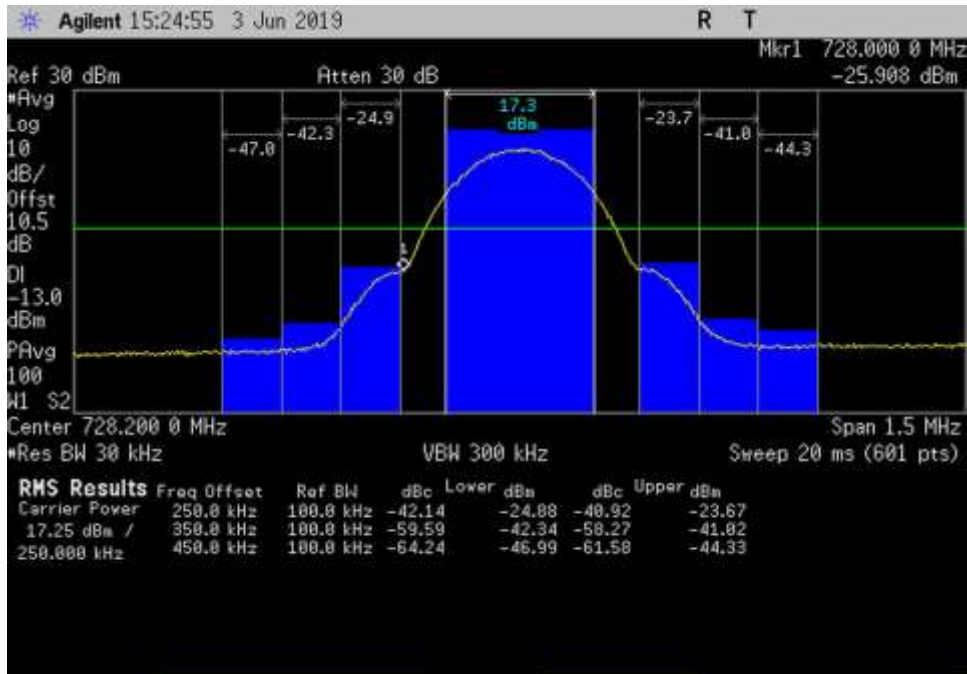
DL\_728-746\_GSM\_727.7-728MHz\_Cm-L



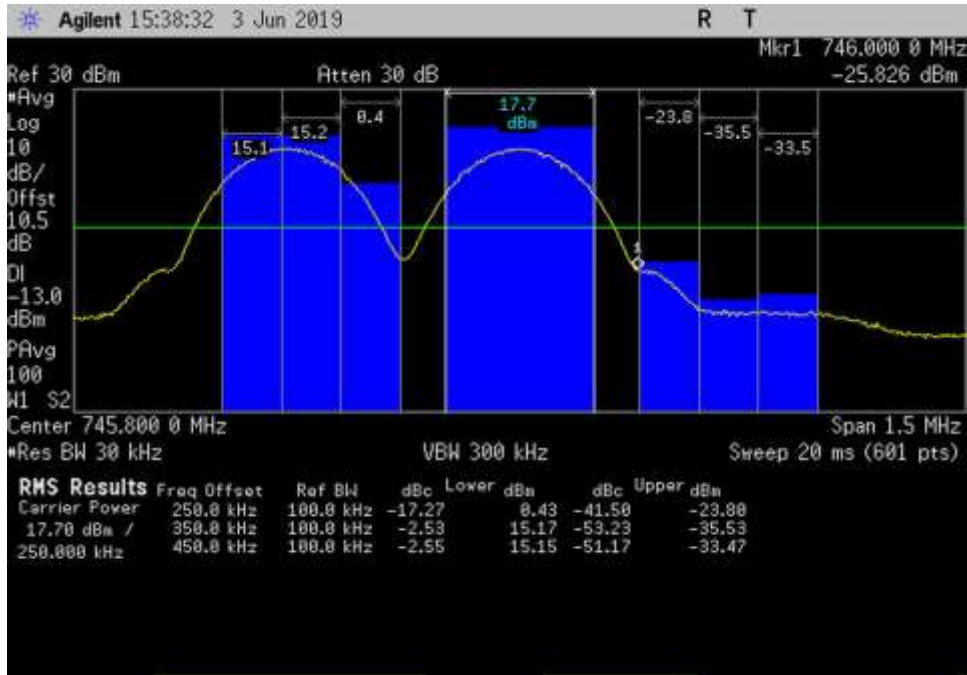
DL\_728-746\_GSM\_727.7-728MHz\_Cm-L+3dB



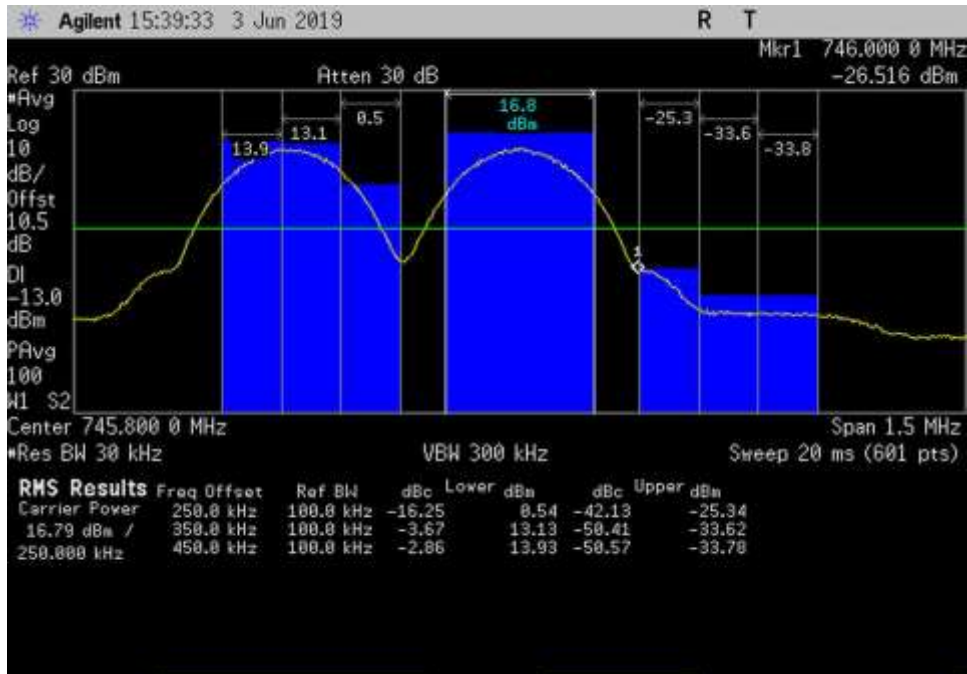
DL\_728-746\_GSM\_727.7-728MHz\_Sn-L



DL\_728-746\_GSM\_727.7-728MHz\_Sn-L+3dB

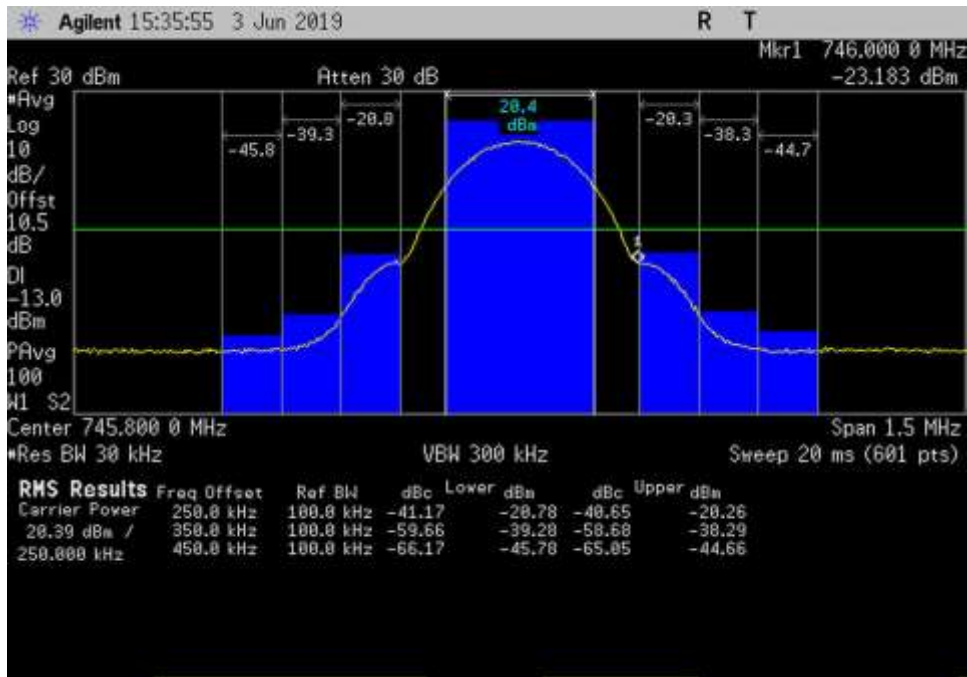


DL\_728-746\_GSM\_746-746.3MHz\_Cm-H

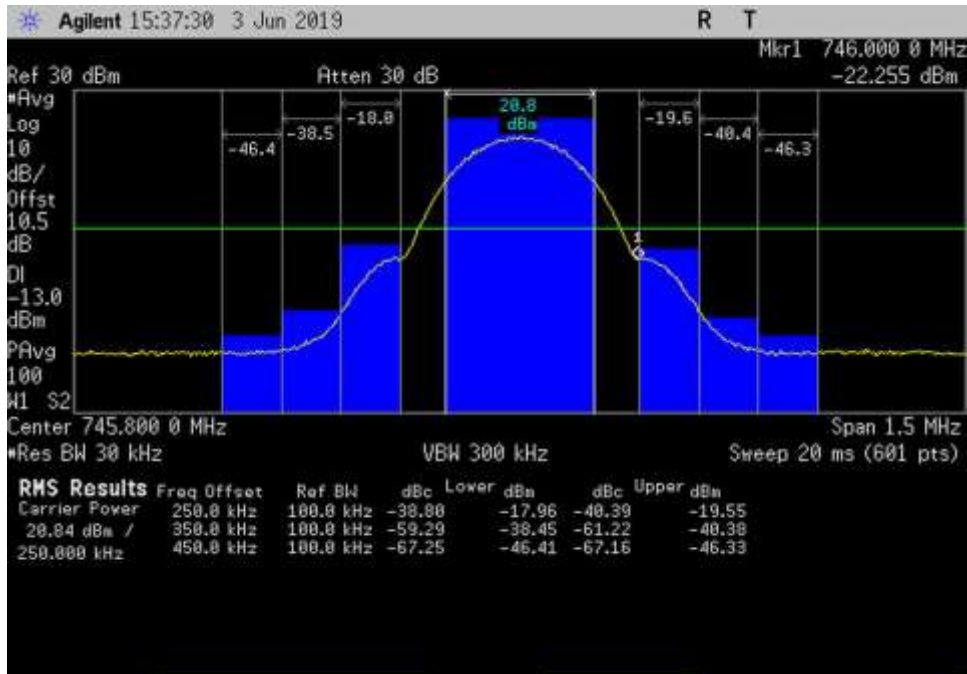


DL\_728-746\_GSM\_746-746.3MHz\_Cm-H+3dB

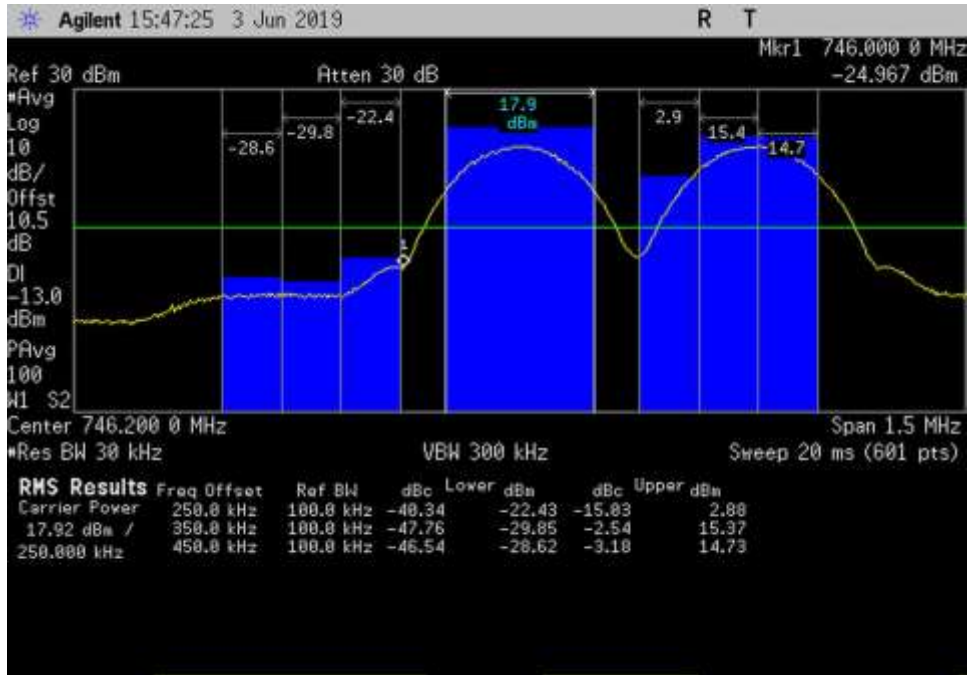




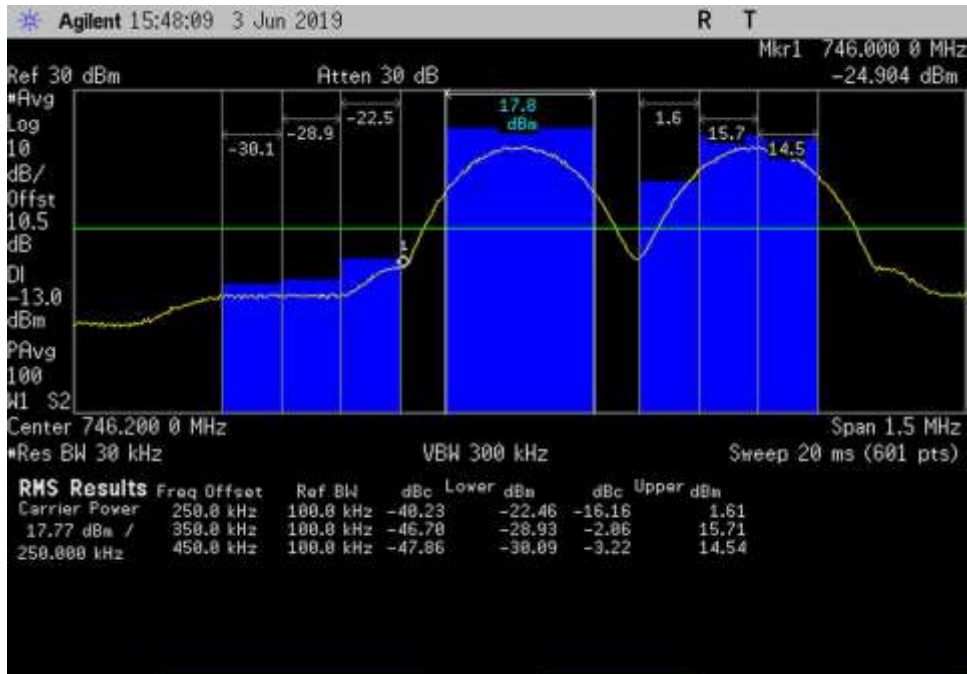
DL\_728-746\_GSM\_746-746.3MHz\_Sn-H



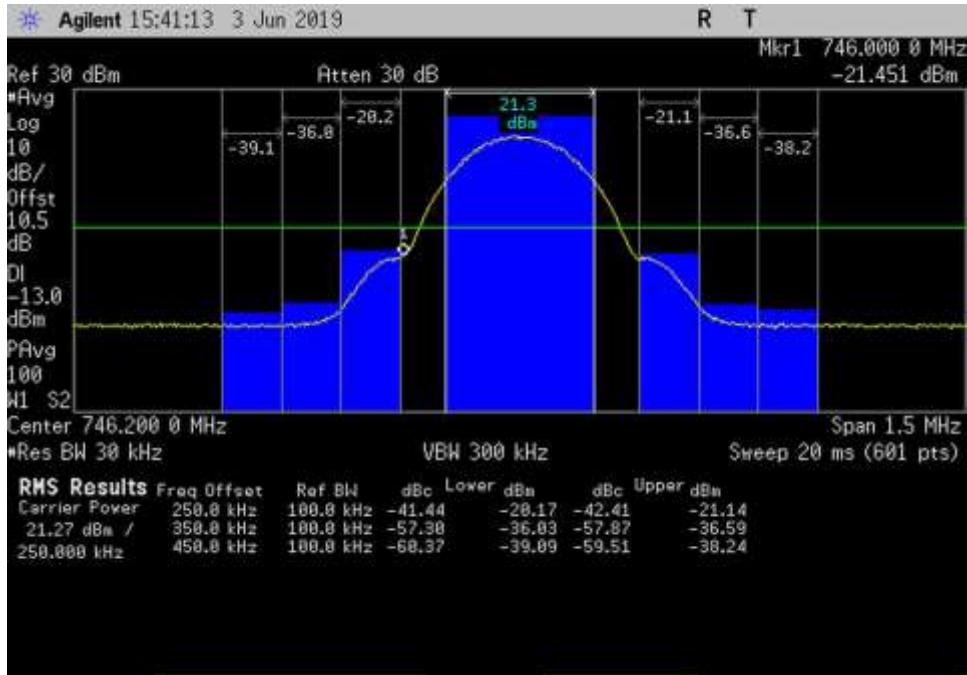
DL\_728-746\_GSM\_746-746.3MHz\_Sn-H+3dB



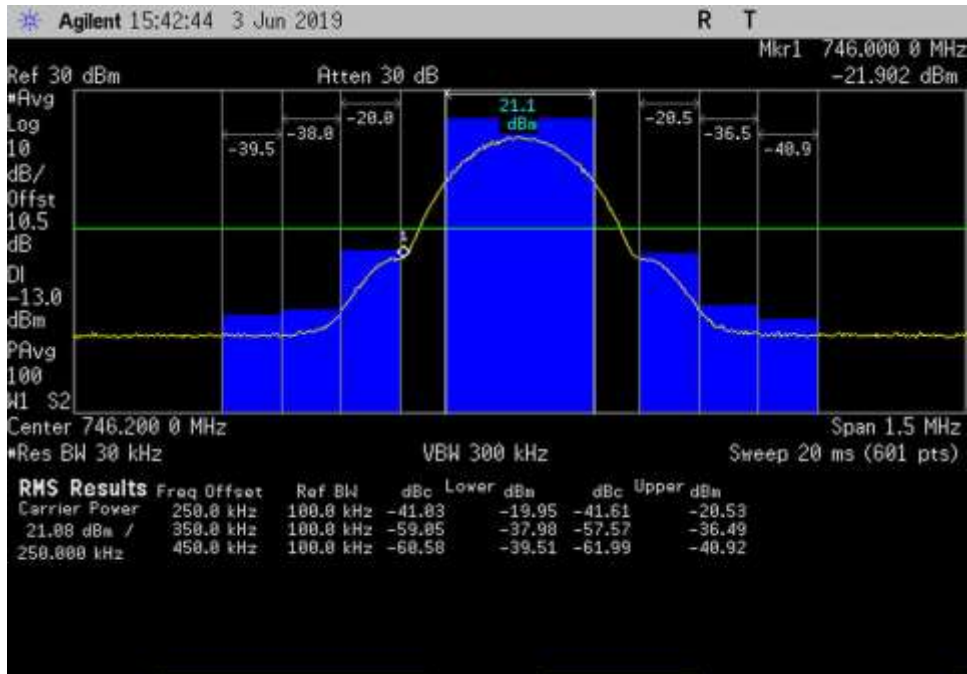
DL\_746-757\_GSM\_745.7-746MHz\_Cm-L



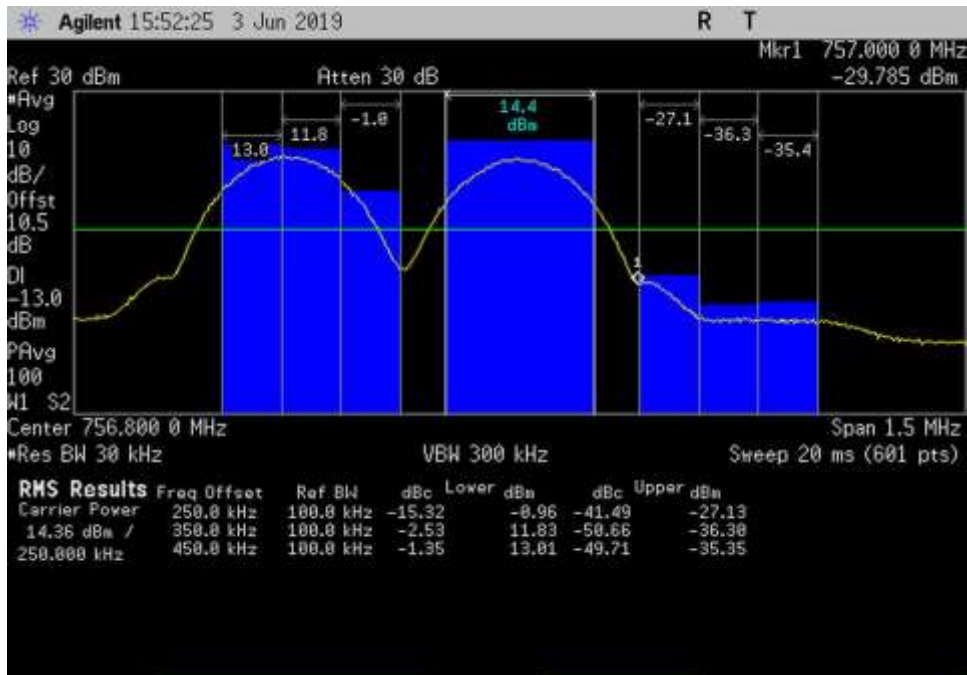
DL\_746-757\_GSM\_745.7-746MHz\_Cm-L+3dB



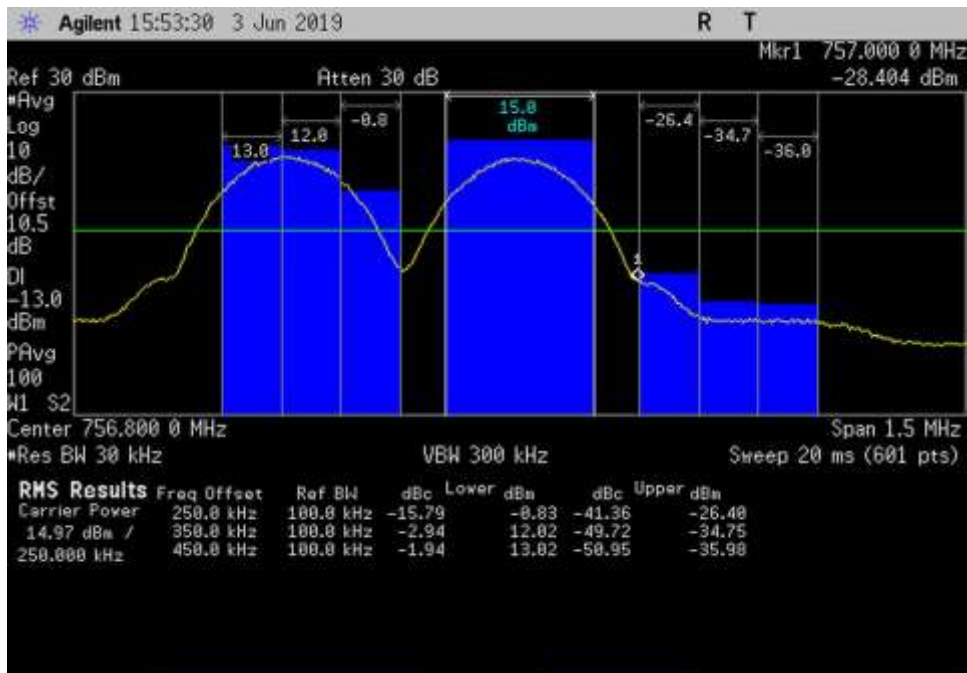
DL\_746-757\_GSM\_745.7-746MHz\_Sn-L



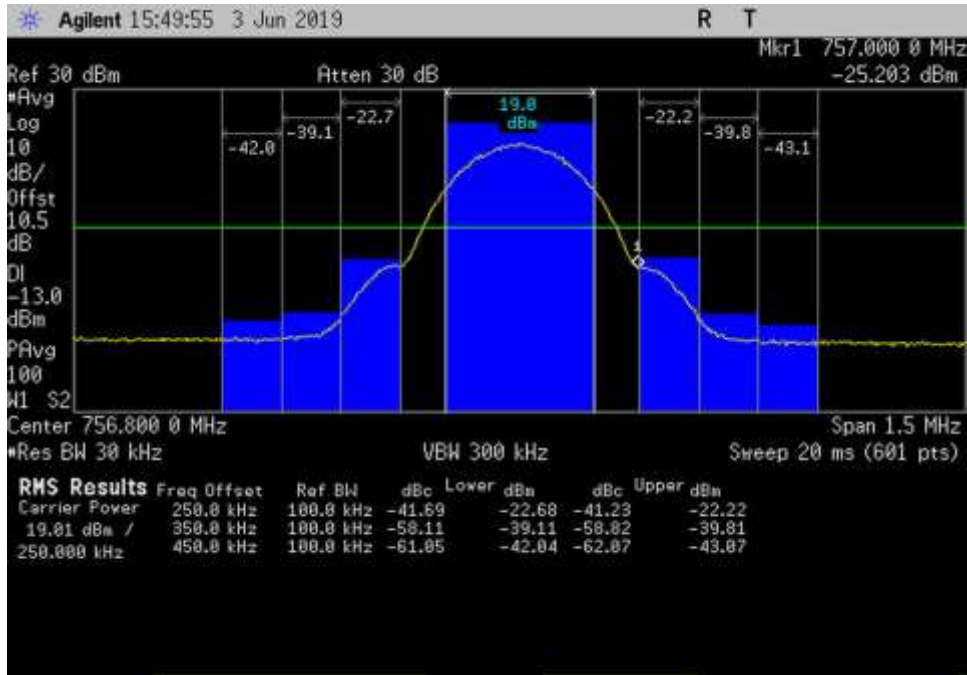
DL\_746-757\_GSM\_745.7-746MHz\_Sn-L+3dB



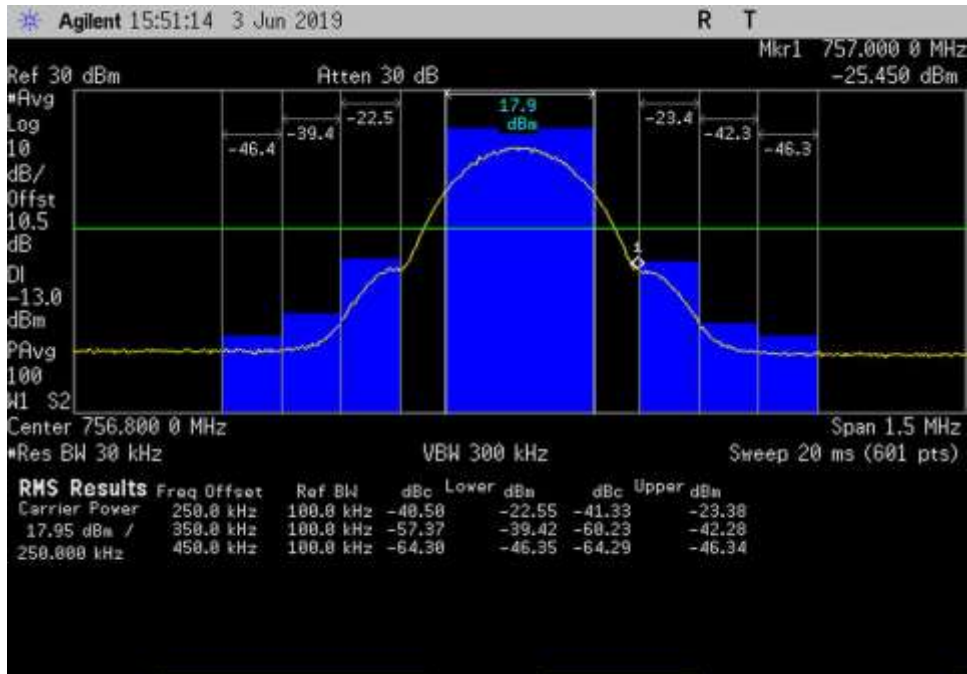
DL\_746-757\_GSM\_757-757.3MHz\_Cm-H



DL\_746-757\_GSM\_757-757.3MHz\_Cm-H+3dB

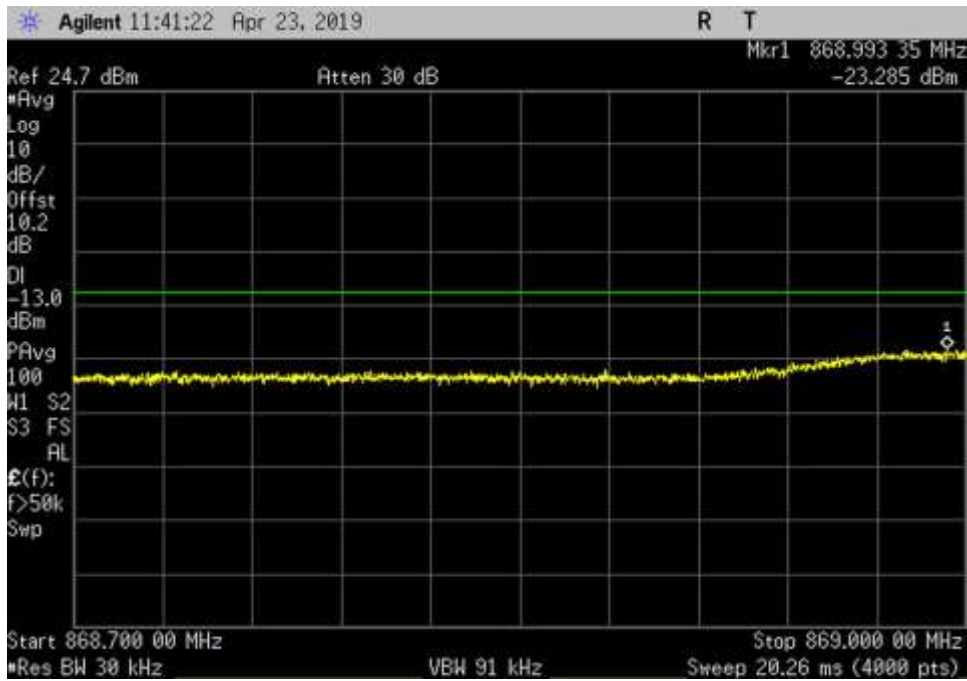


DL\_746-757\_GSM\_757-757.3MHz\_Sn-H

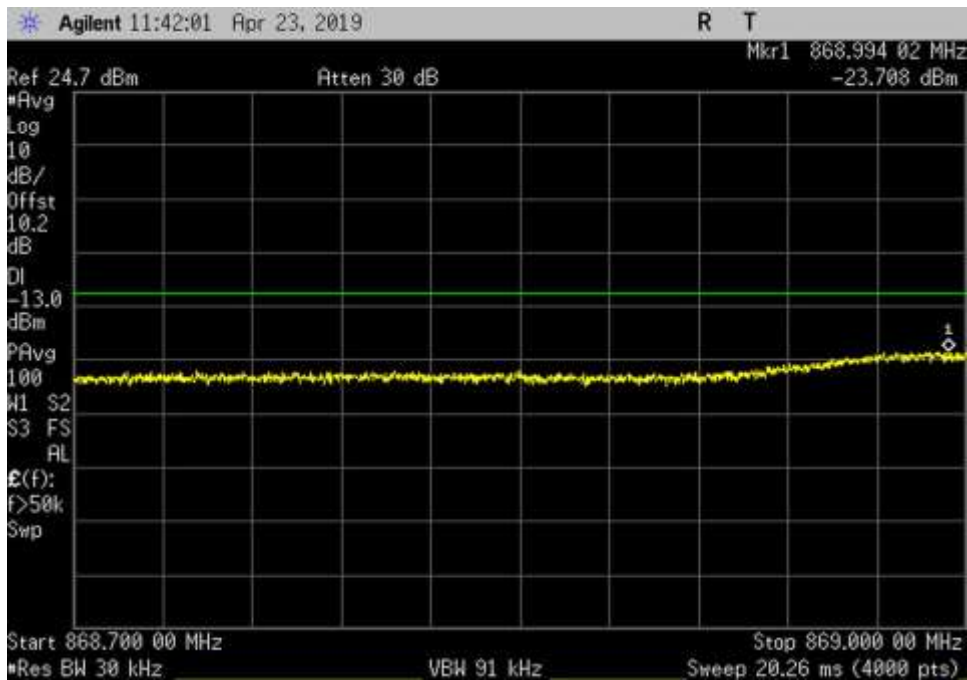


DL\_746-757\_GSM\_757-757.3MHz\_Sn-H+3dB

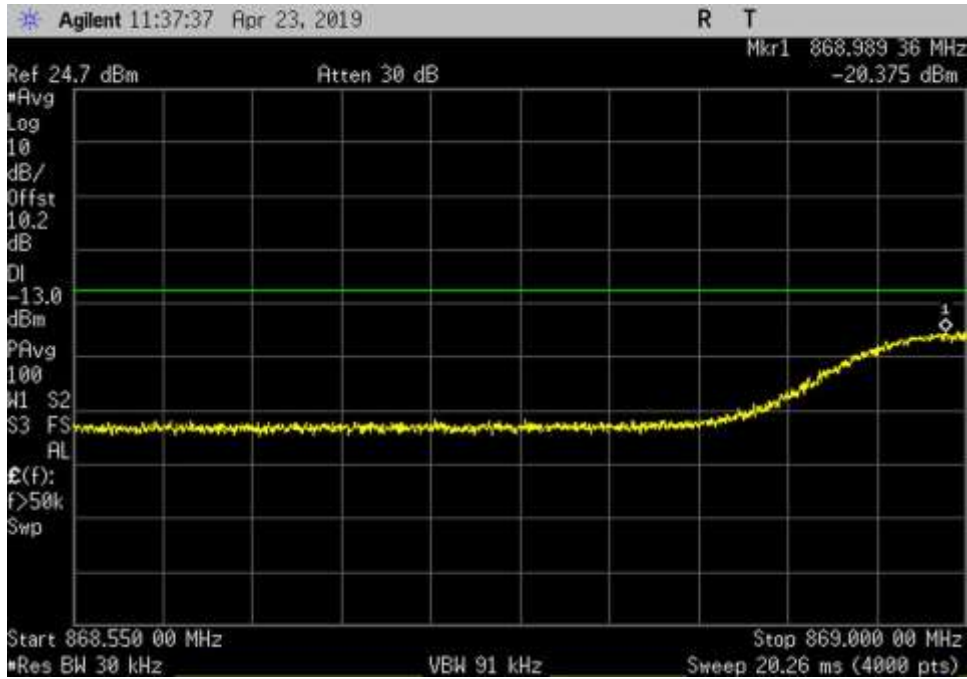




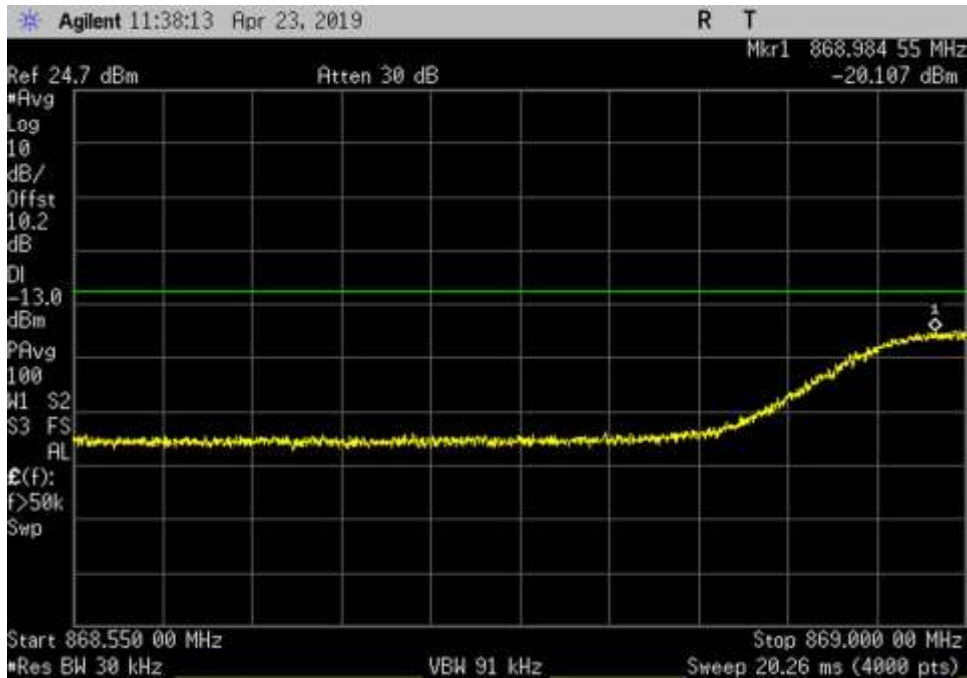
DL\_869-894\_GSM\_868.7-869MHz\_Cm-L



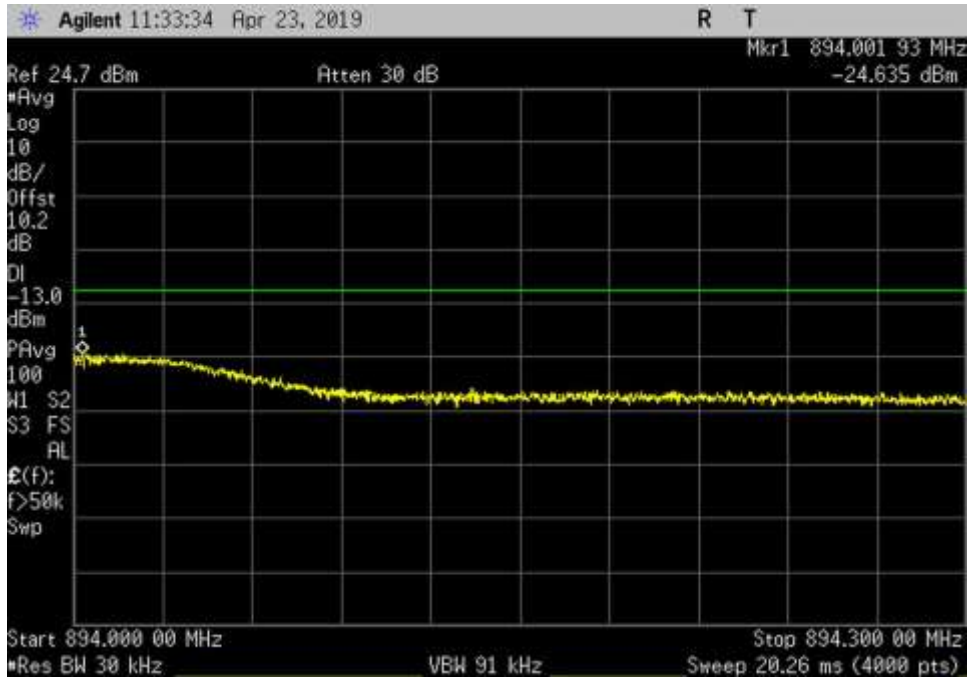
DL\_869-894\_GSM\_868.7-869MHz\_Cm-L+3dB



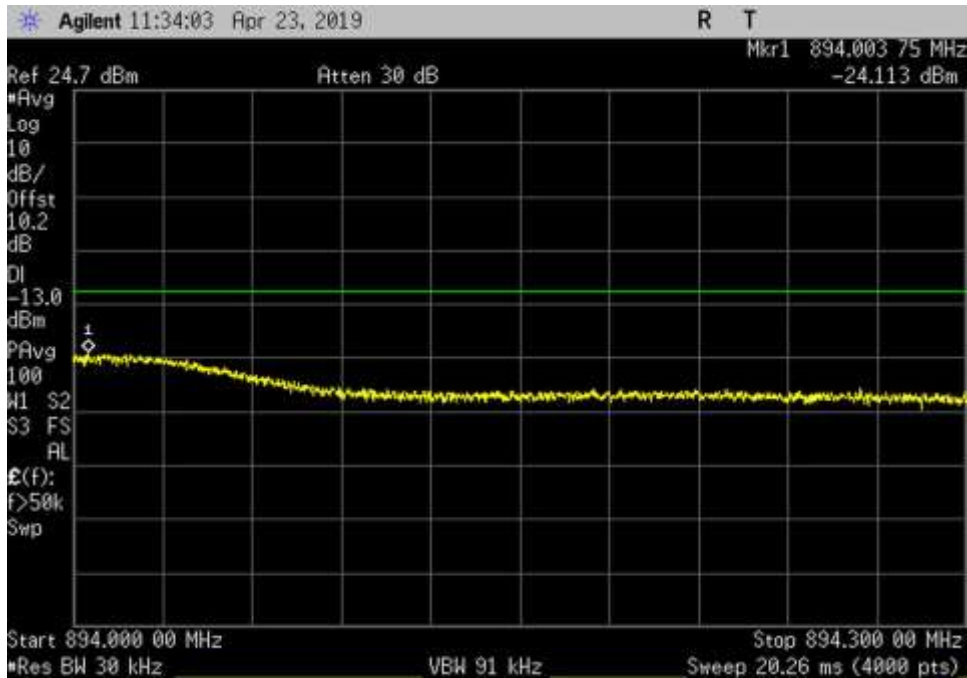
DL\_869-894\_GSM\_868.55-869MHz\_Sn-L



3.6.2 OBE\_DL\_869-894\_GSM\_868.55-869MHz\_Sn-L+3dB

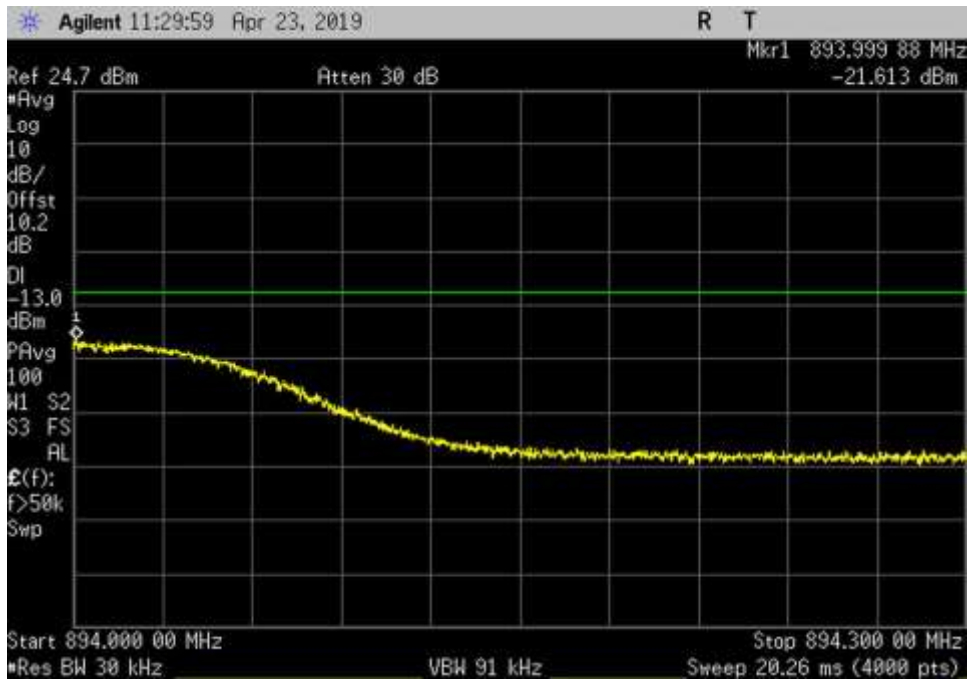


DL\_869-894\_GSM\_894-894.3MHz\_Cm-H

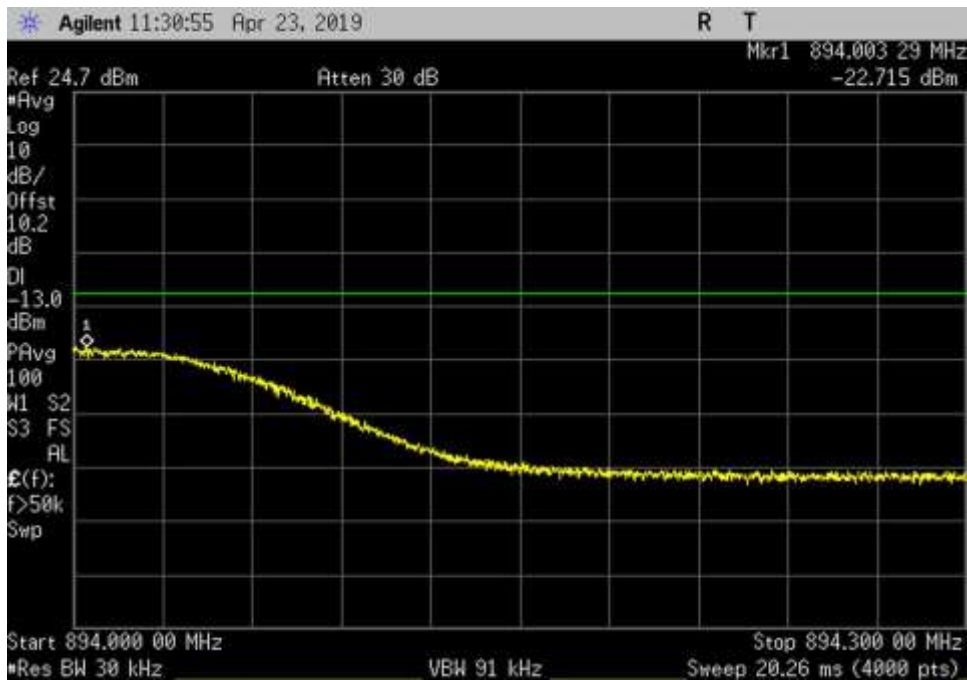


DL\_869-894\_GSM\_894-894.3MHz\_Cm-H+3dB

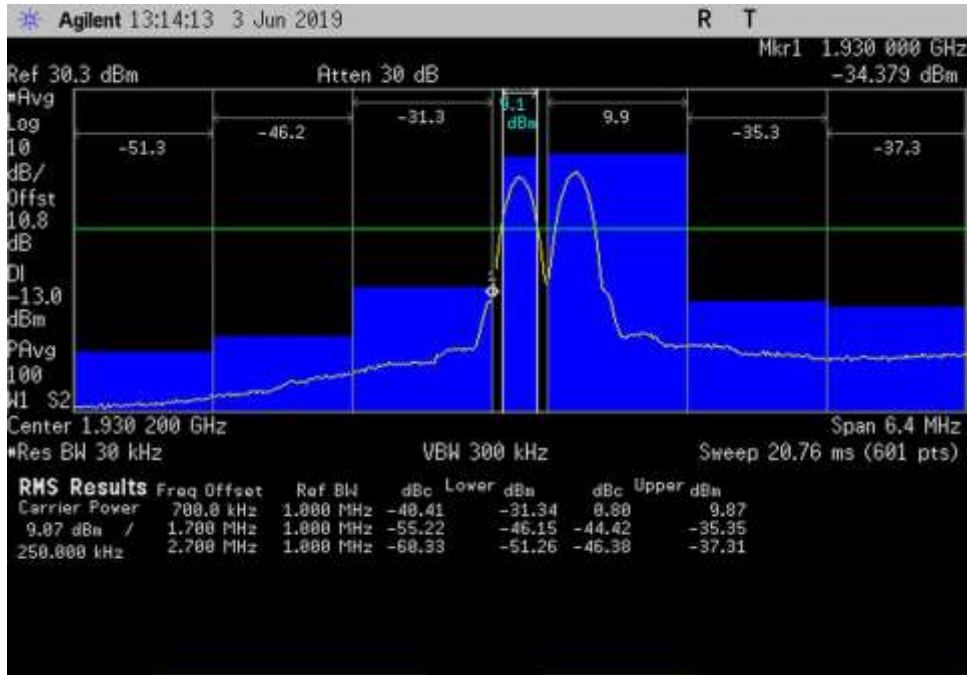




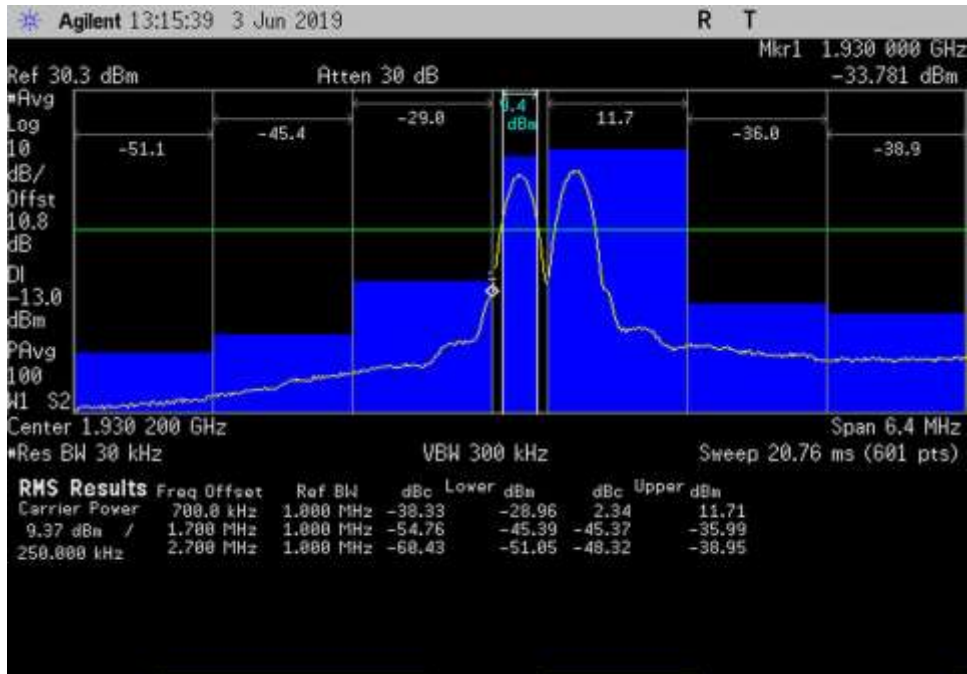
DL\_869-894\_GSM\_894-894.3MHz\_Sn-H



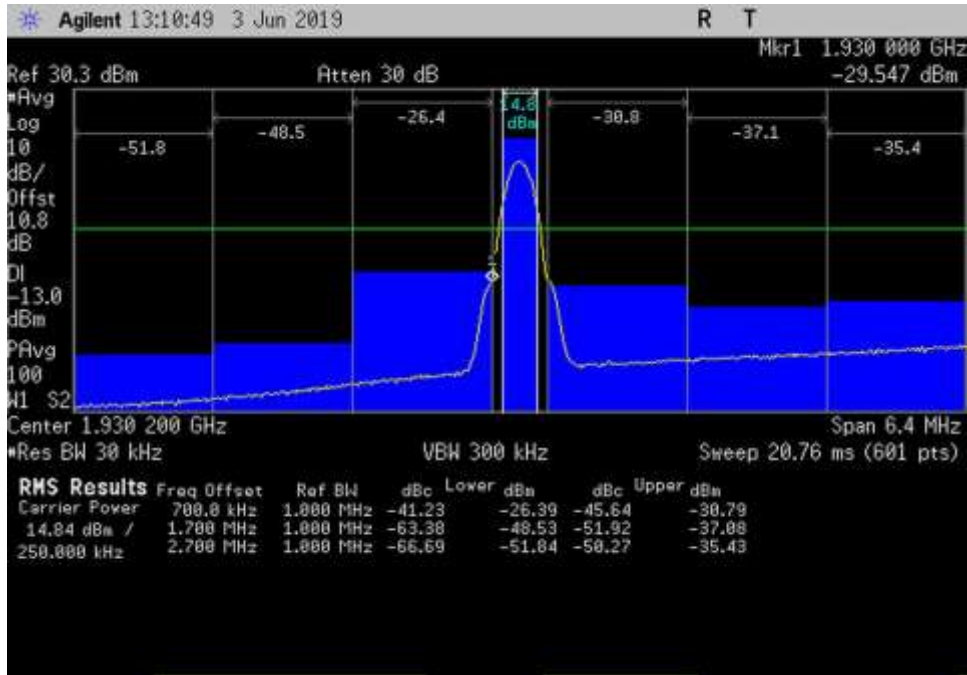
DL\_869-894\_GSM\_894-894.3MHz\_Sn-H+3dB



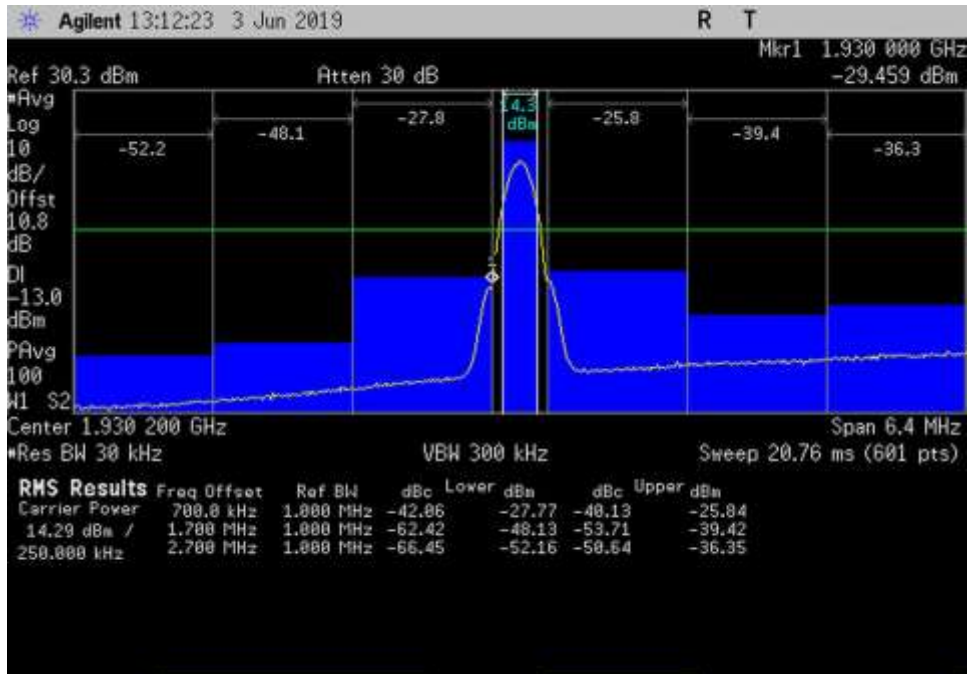
DL\_1930-1995\_GSM\_1927-1930MHz\_Cm-L



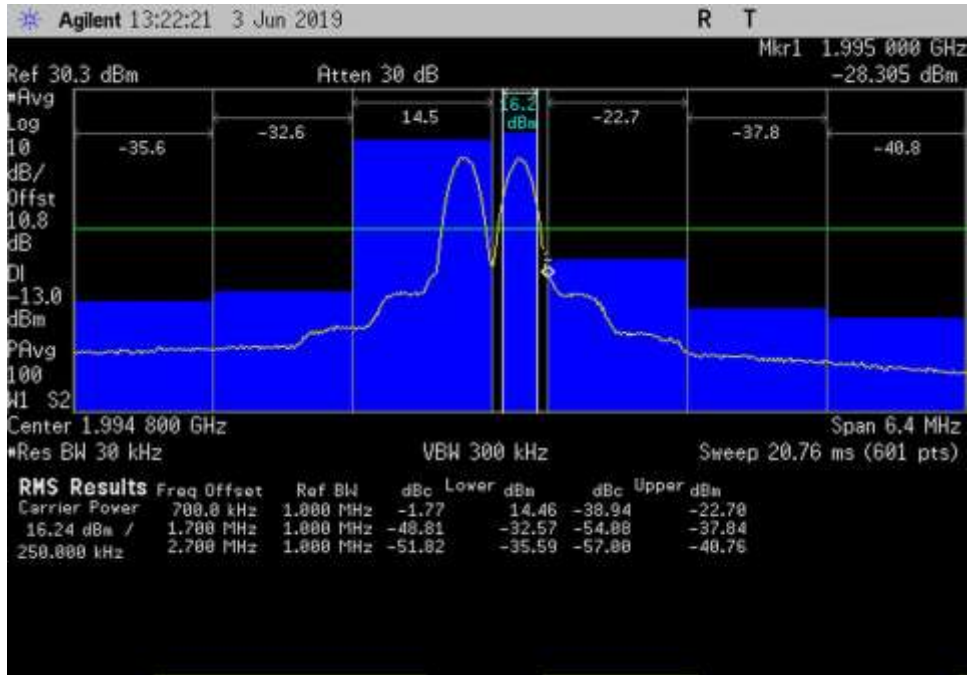
DL\_1930-1995\_GSM\_1927-1930MHz\_Cm-L+3dB



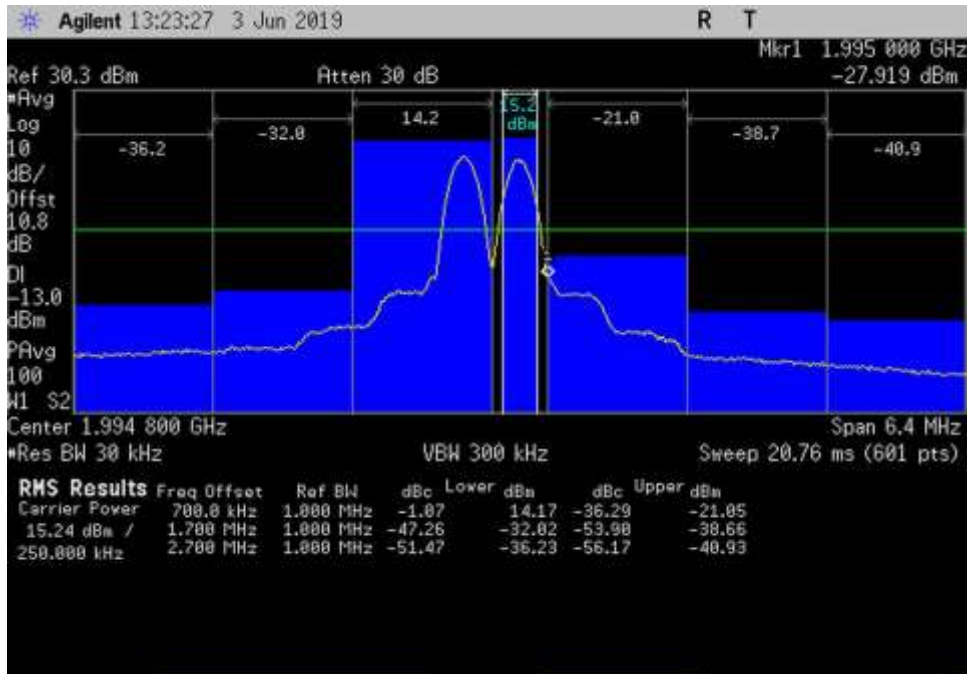
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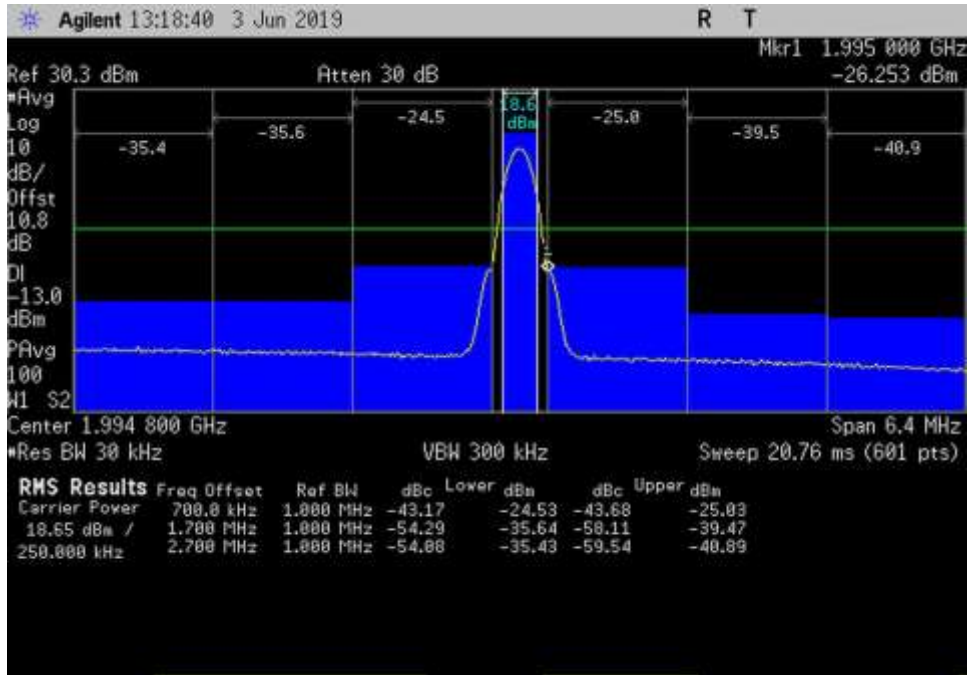
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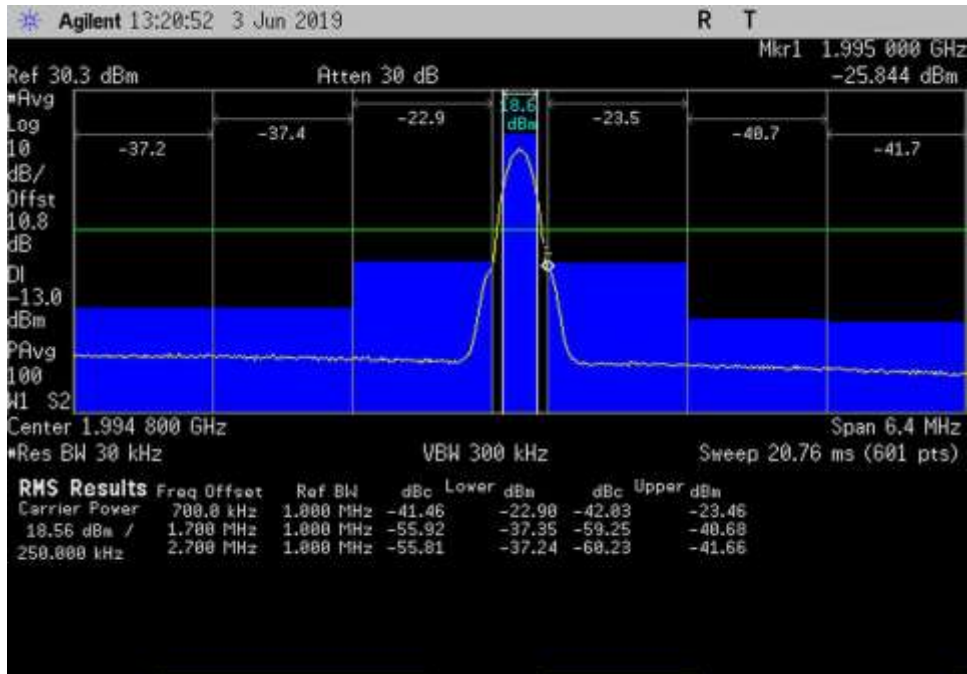
DL\_1930-1995\_GSM\_1995-1998MHz\_Cm-H



DL\_1930-1995\_GSM\_1995-1998MHz\_Cm-H+3dB

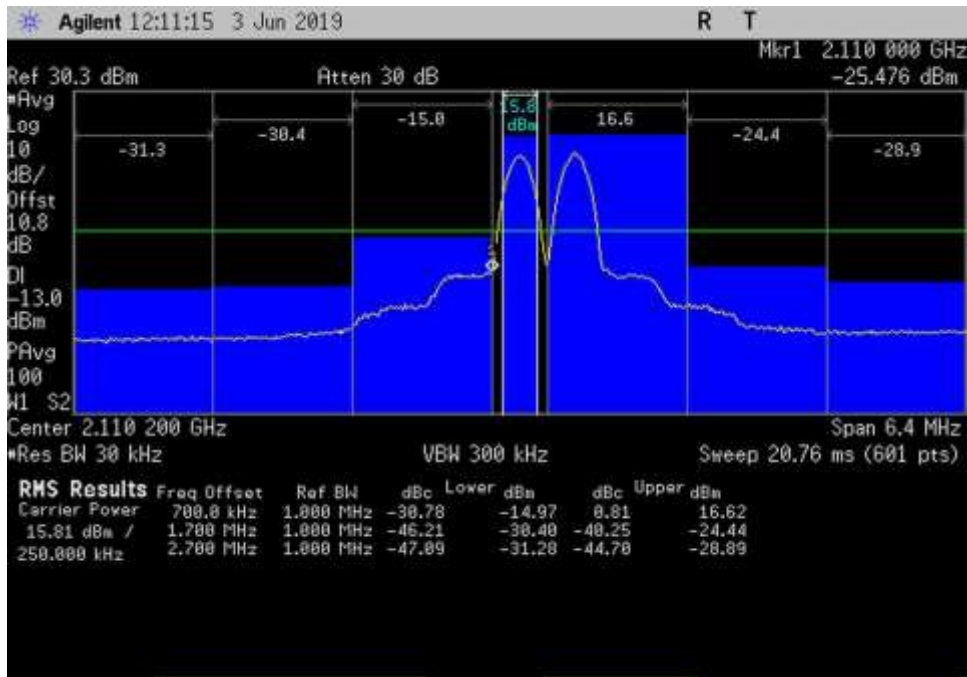


DL\_1930-1995\_GSM\_1995-1998MHz\_Sn-H

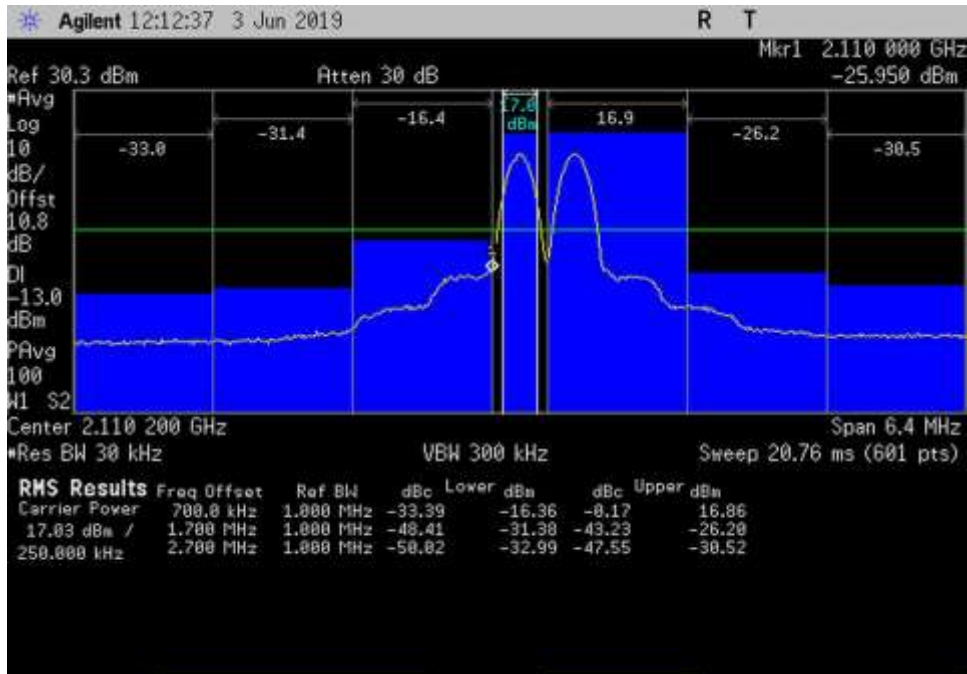


DL\_1930-1995\_GSM\_1995-1998MHz\_Sn-H+3dB

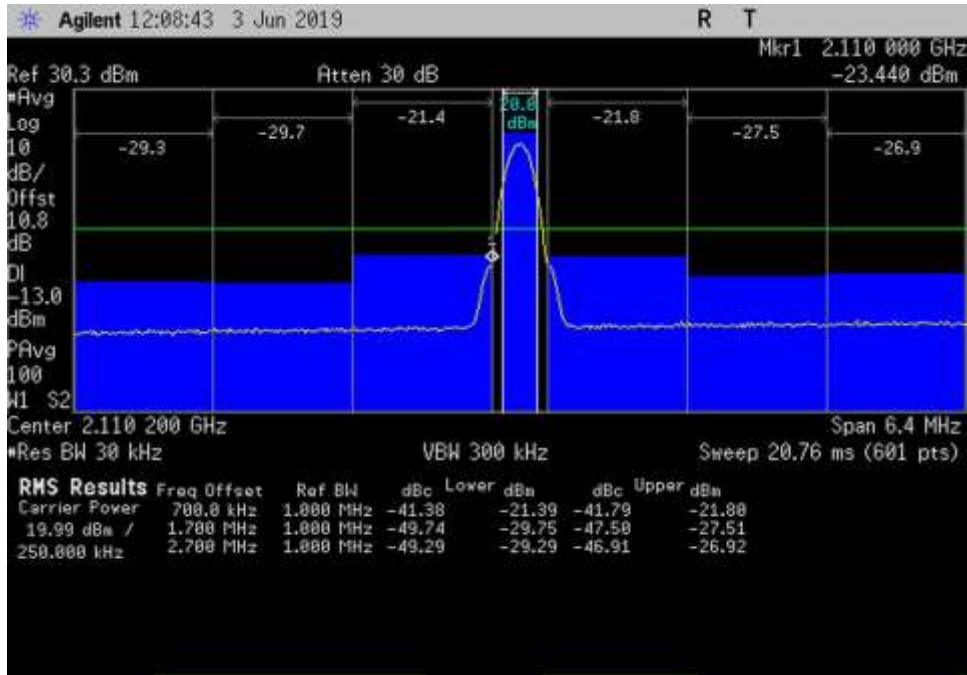




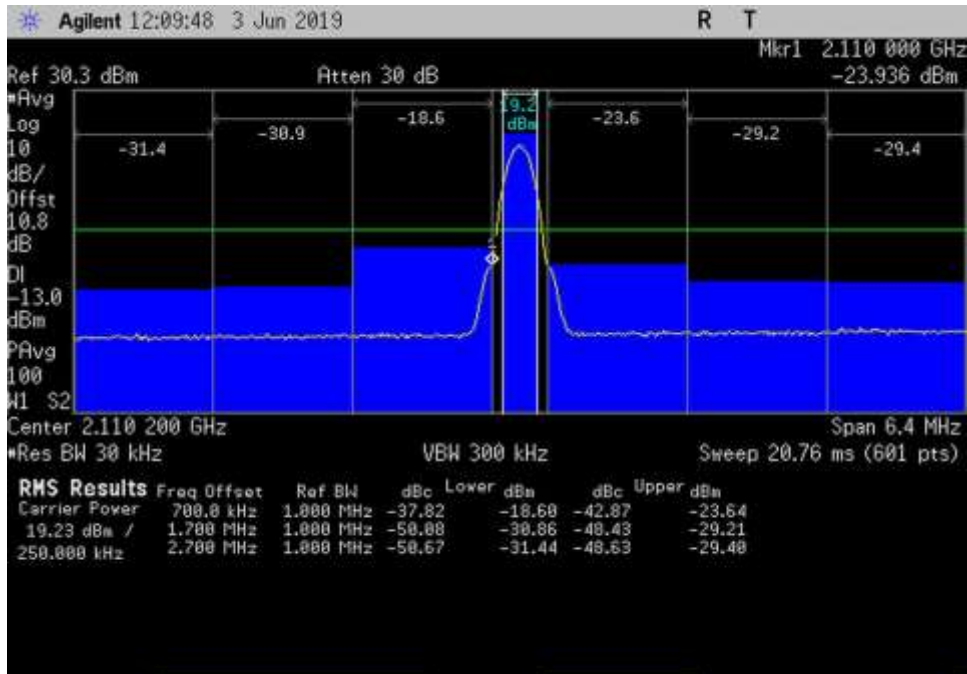
DL\_2110-2155\_GSM\_2107-2110MHz\_Cm-L



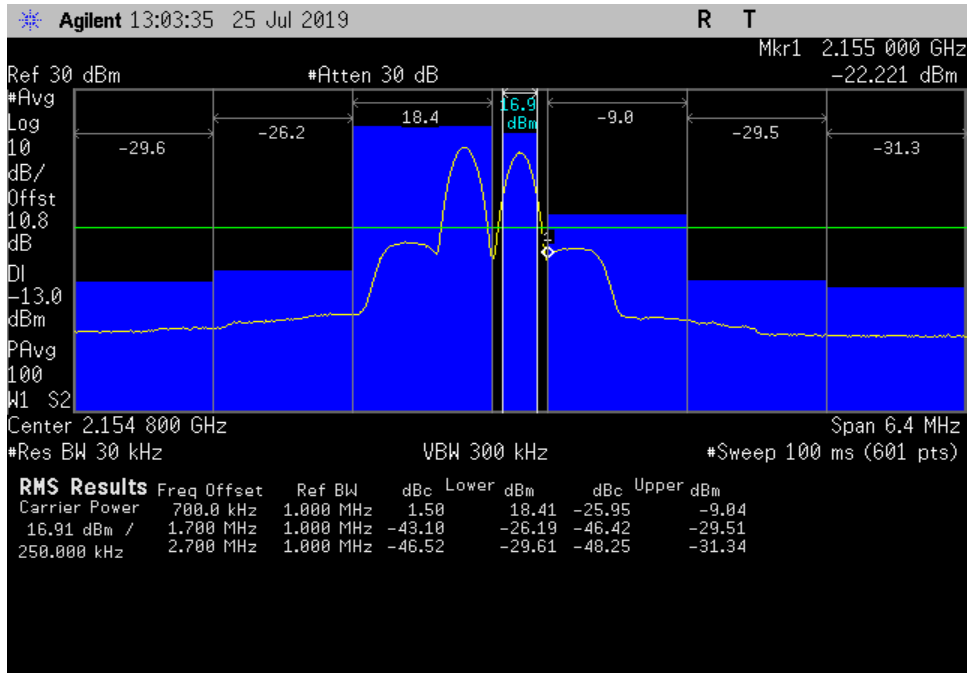
DL\_2110-2155\_GSM\_2107-2110MHz\_Cm-L+3dB



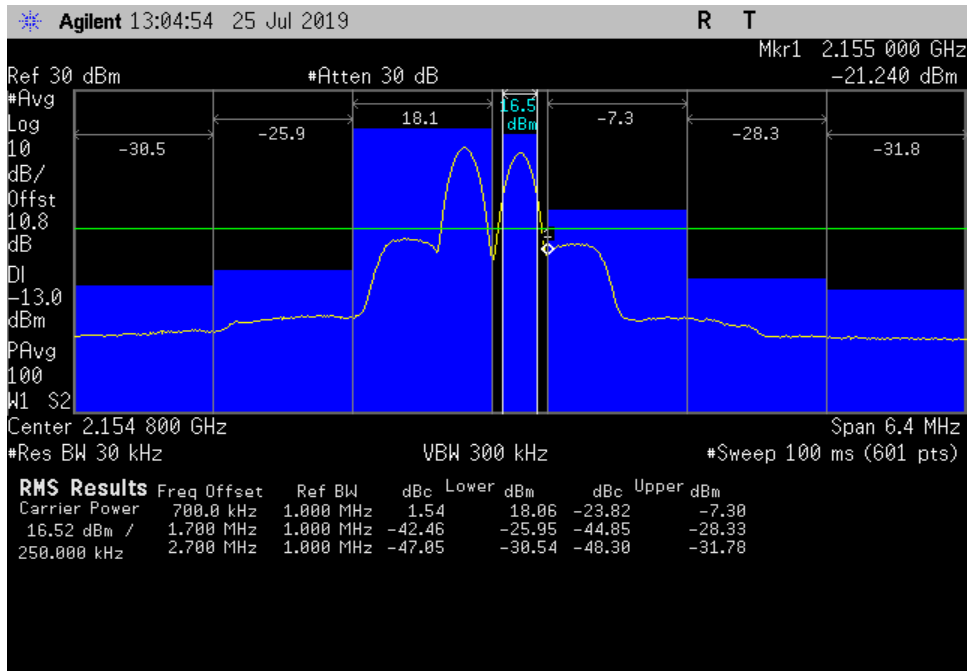
DL\_2110-2155\_GSM\_2107-2110MHz\_Sn-L



DL\_2110-2155\_GSM\_2107-2110MHz\_Sn-L+3dB

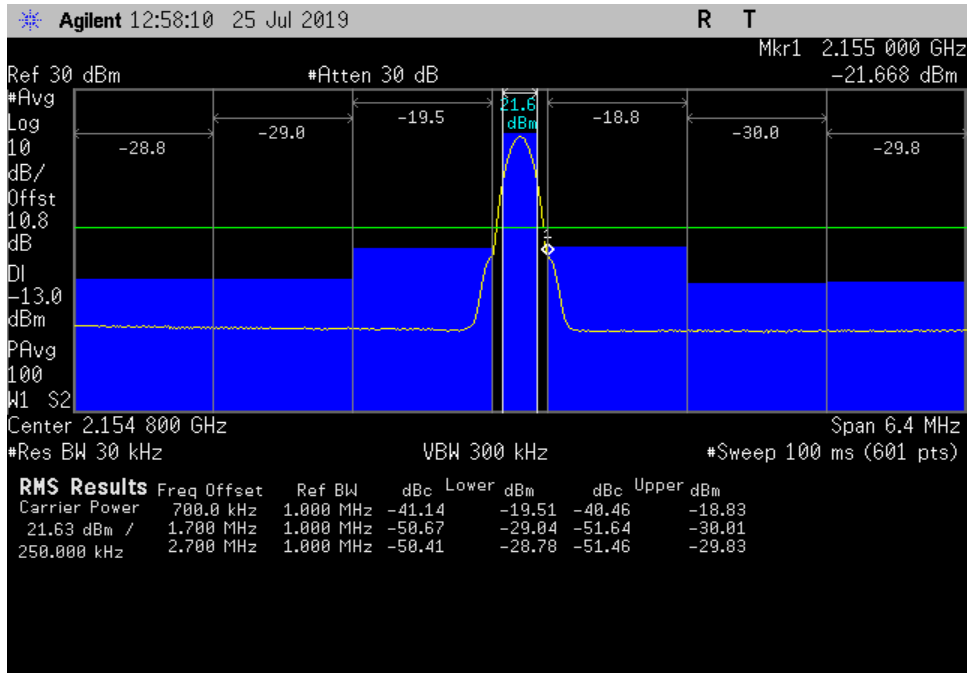


DL\_2110-2155\_GSM\_2151.6-2158MHz\_Cm\_H

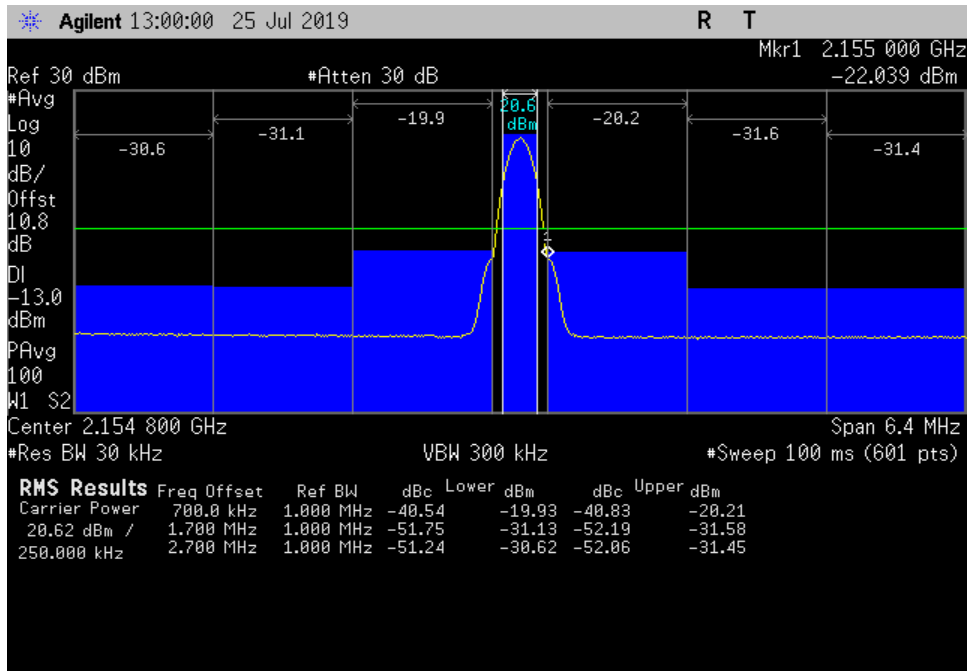


DL\_2110-2155\_GSM\_2151.6-2158MHz\_Cm\_H+3dB

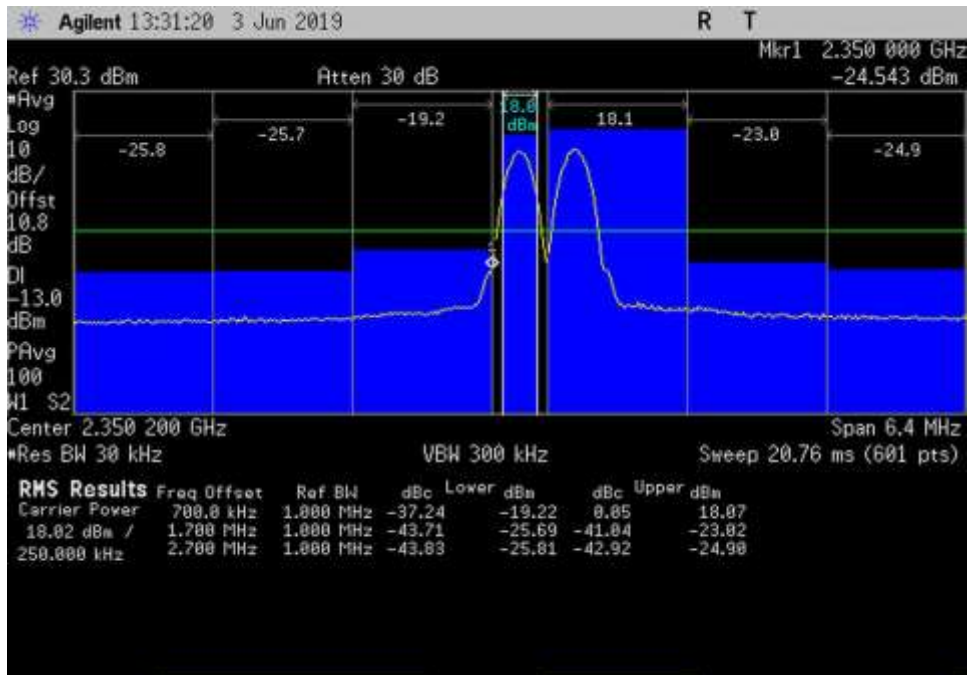




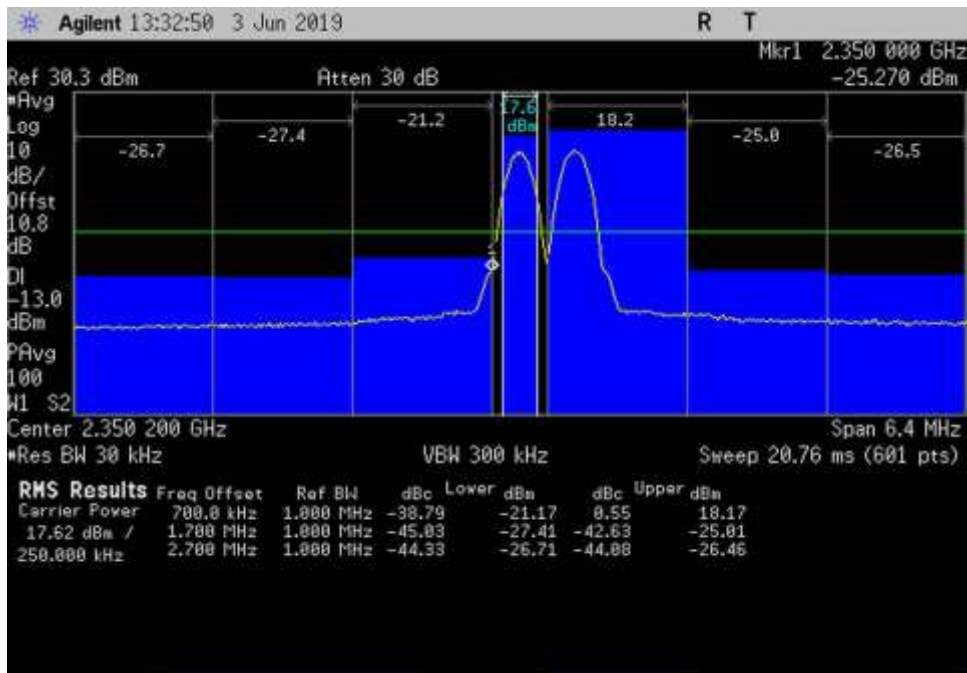
DL\_2110-2155\_GSM\_2151.6-2158MHz\_Sn\_H



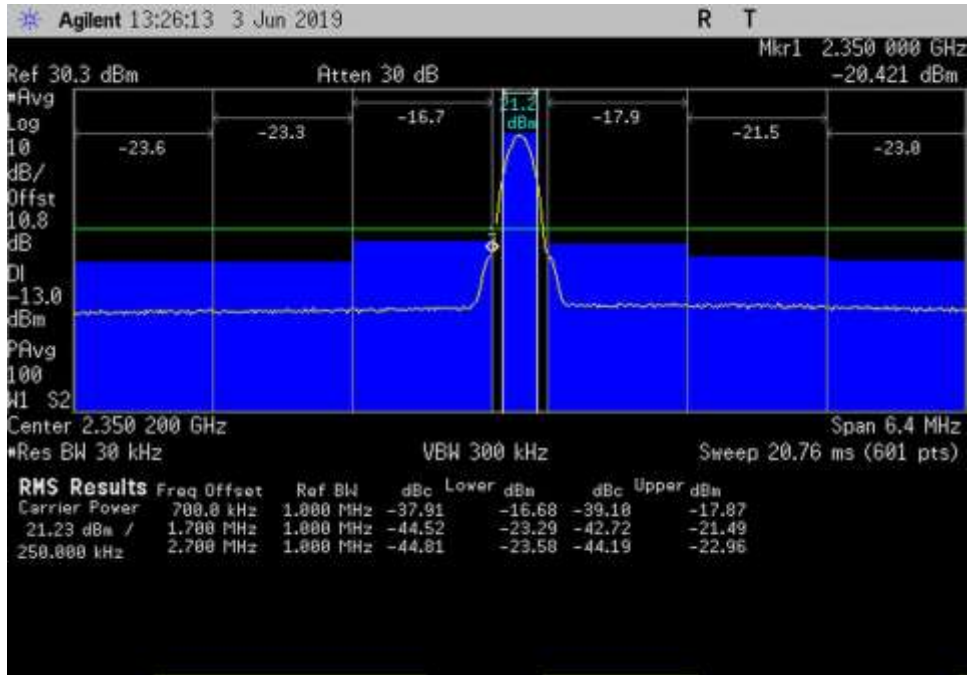
DL\_2110-2155\_GSM\_2151.6-2158MHz\_Sn\_H+3dB



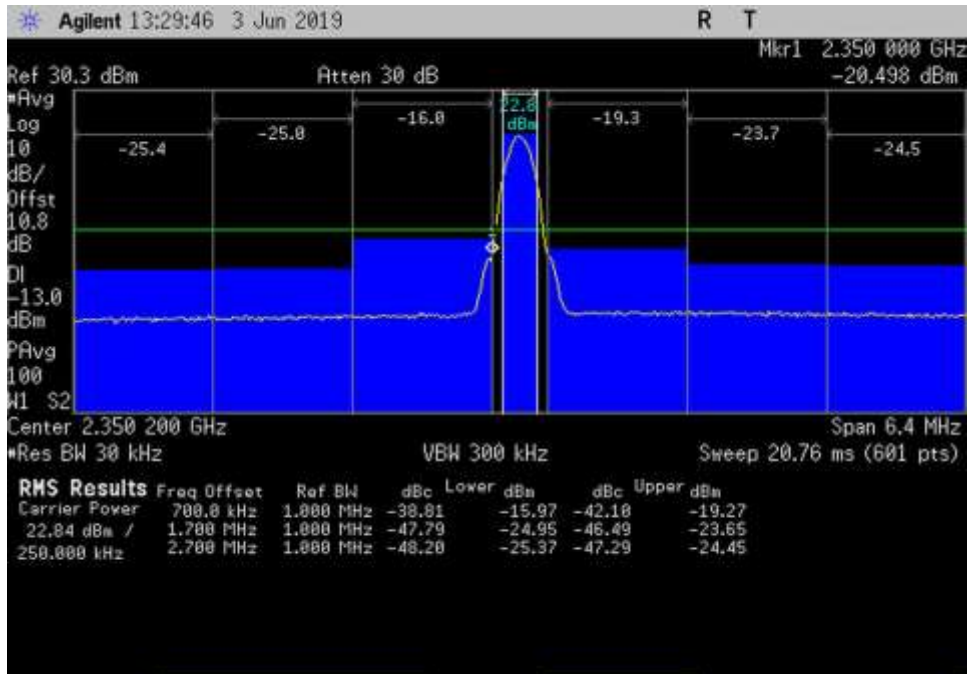
DL\_2350-2360\_GSM\_2347-2350MHz\_Cm-L



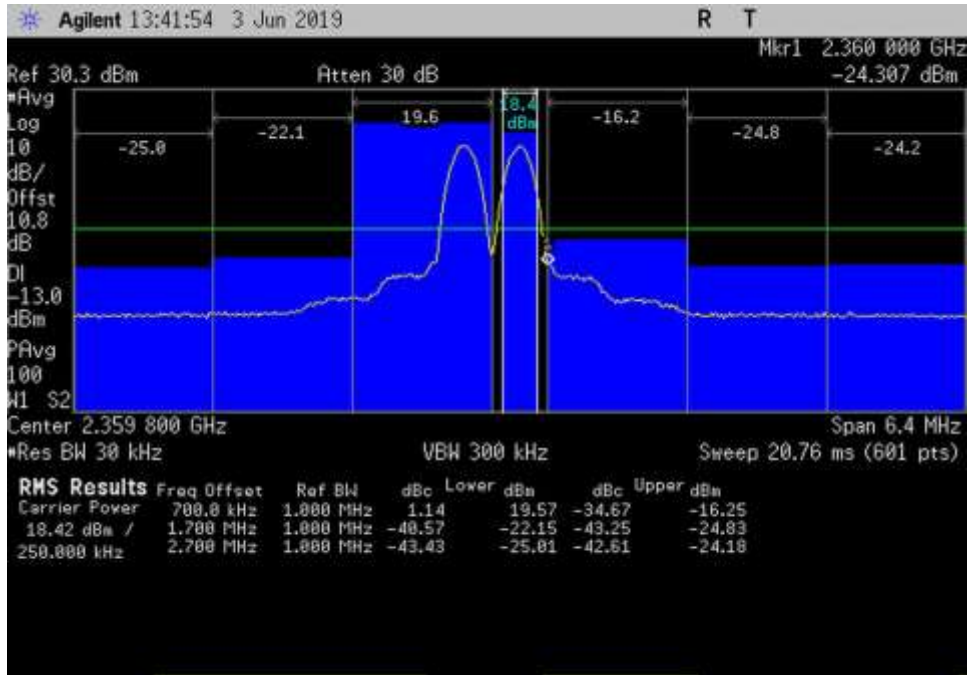
DL\_2350-2360\_GSM\_2347-2350MHz\_Cm-L+3dB



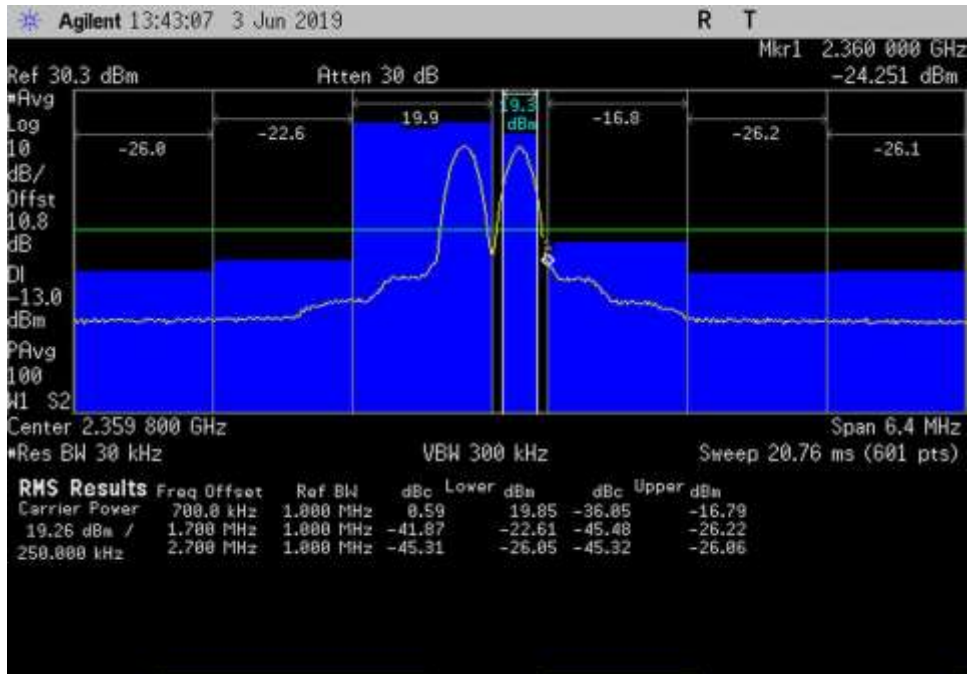
DL\_2350-2360\_GSM\_2347-2350MHz\_Sn-L



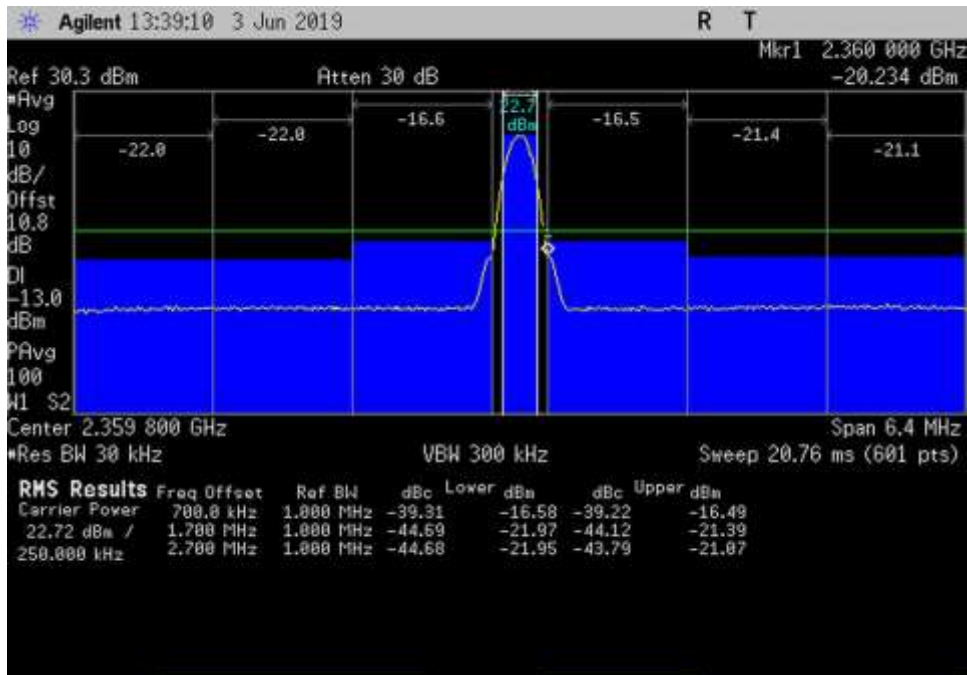
DL\_2350-2360\_GSM\_2347-2350MHz\_Sn-L+3dB



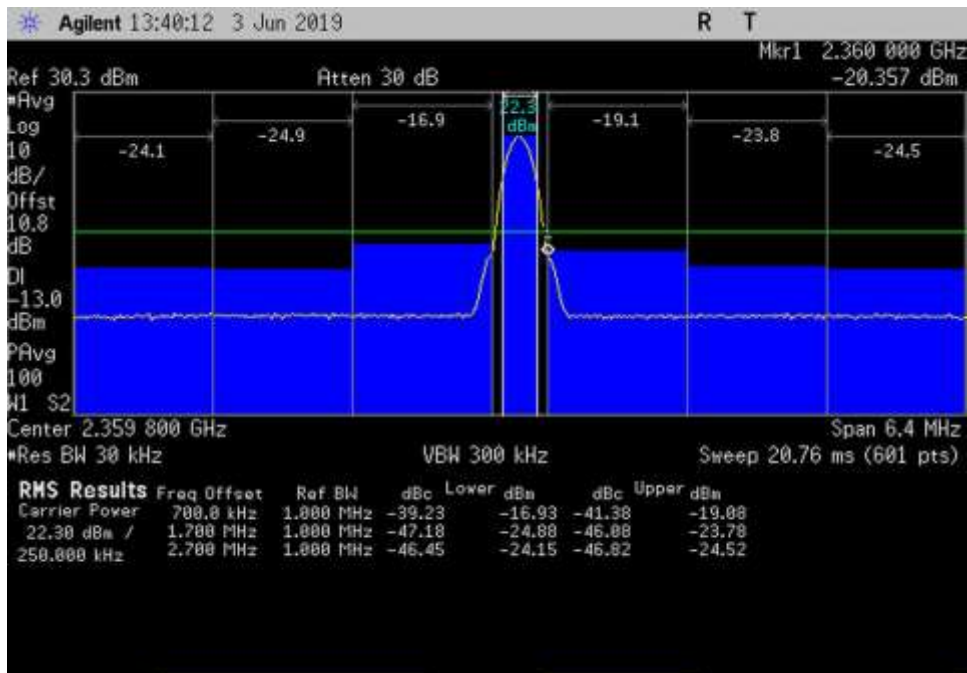
DL\_2350-2360\_GSM\_2360-2363MHz\_Cn-H



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**

**REQUIRED ATTENUATION = 43+10 LOG P DB**

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

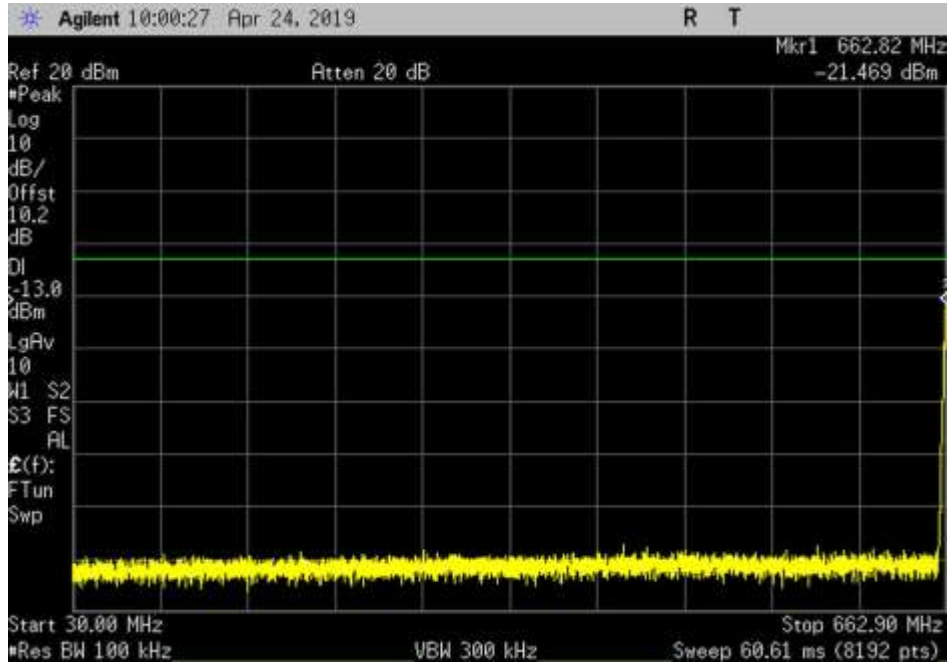
$$\begin{aligned}
 V_{dBuV} &= 20 \text{ Log } \frac{V}{1 \times 10^{-6}} \\
 &= 20 (\text{Log } V - \text{Log } 1 \times 10^{-6}) \\
 &= 20 \text{ Log } V - 20 \text{ Log } 1 \times 10^{-6} \\
 &= 20 \text{ Log } V - 20 (-6) \\
 &= 20 \text{ Log } V + 120
 \end{aligned}$$

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

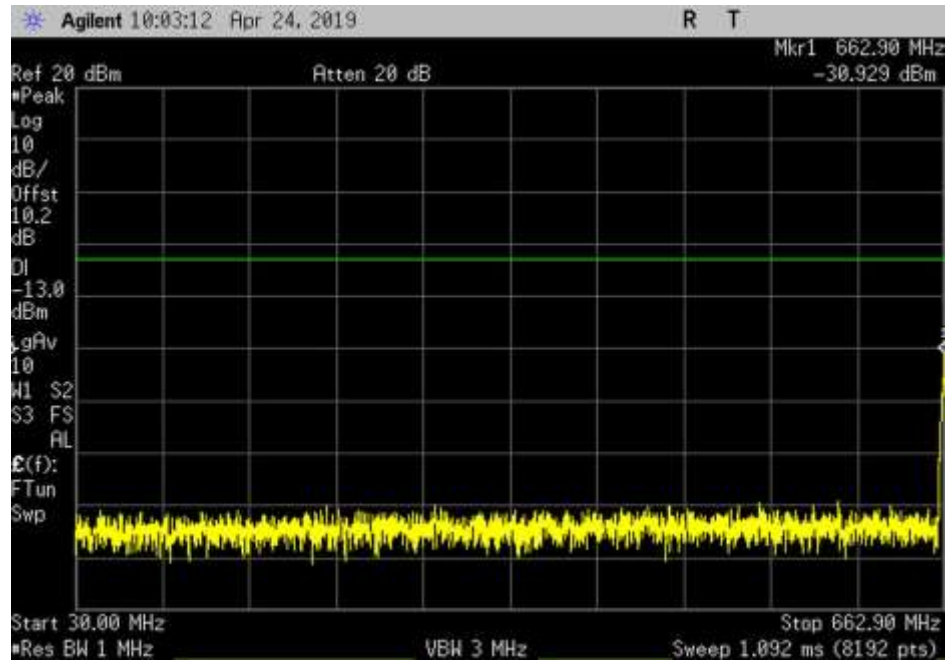
$$\begin{aligned}
 \text{Limit line} &= V_{dBuV} - \text{Attenuation} \\
 &= 20 \text{ Log } V + 120 - (43 + 20 \text{ Log } V - 10 \text{ Log } R) \\
 &= 20 \text{ Log } V + 120 - 43 - 20 \text{ Log } V + 10 \text{ Log } R \\
 &= 20 \text{ Log } V + 120 - 43 - 20 \text{ Log } V + 10 \text{ Log } R \\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

**Plots**

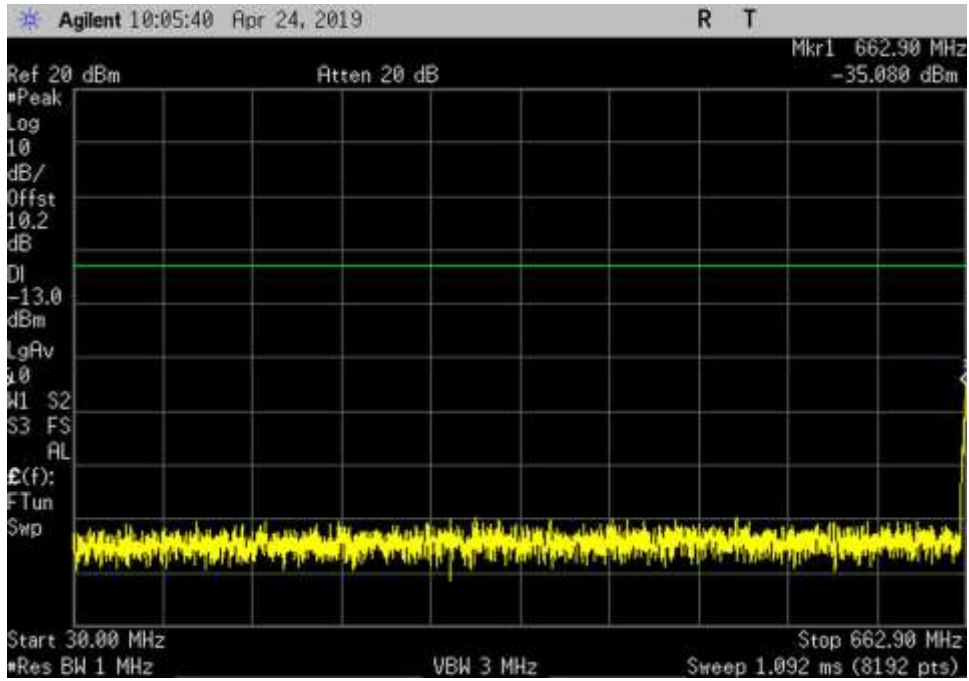
**AWGN**



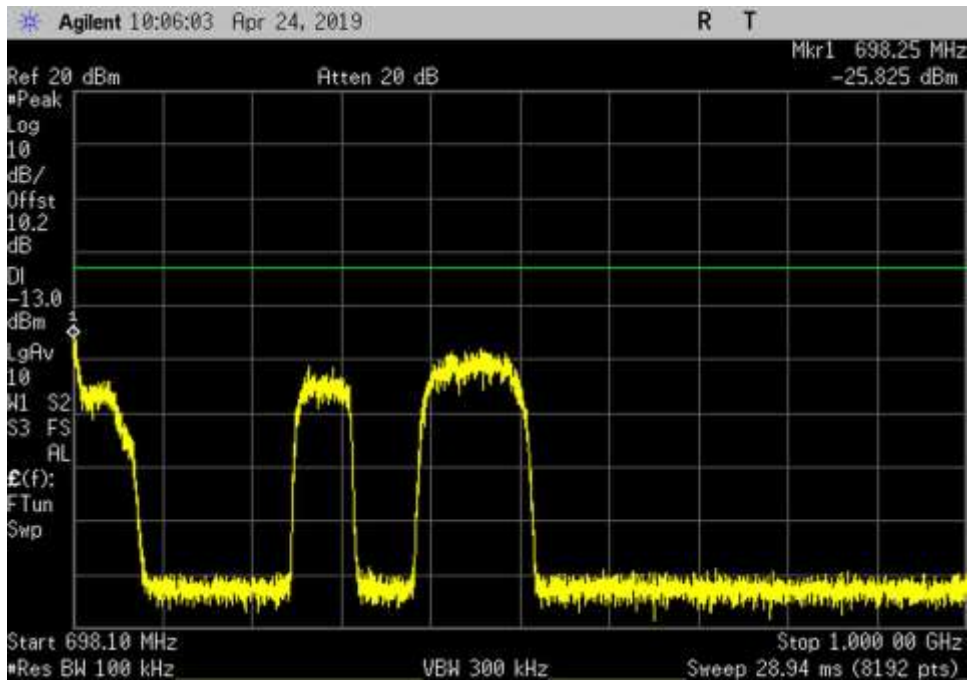
UL\_663-698\_AWGN\_30-662.9MHz\_LC



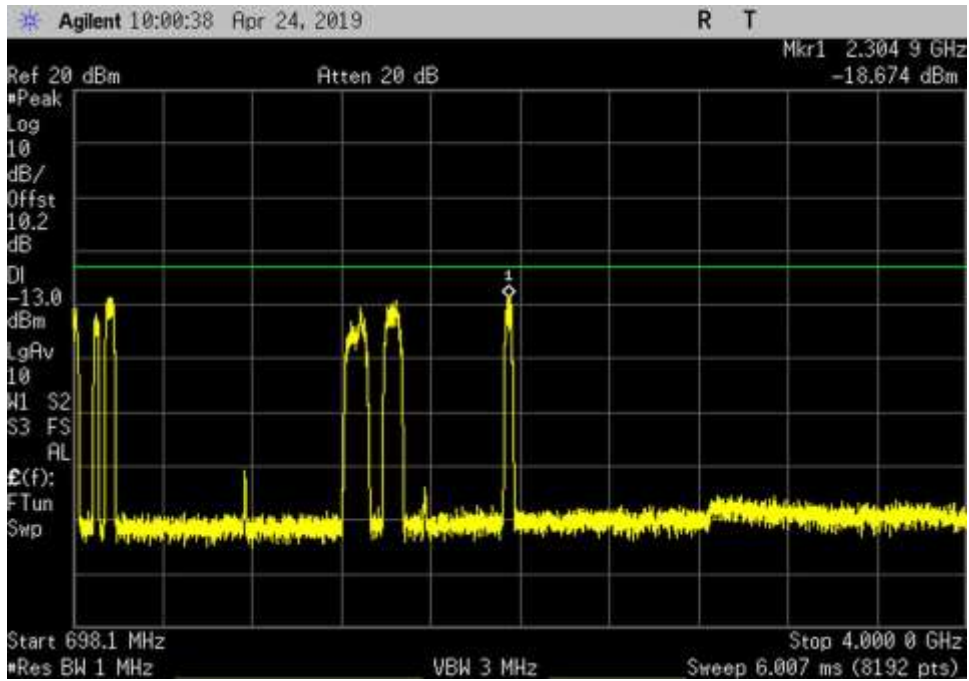
UL\_663-698\_AWGN\_30-662.9MHz\_MC



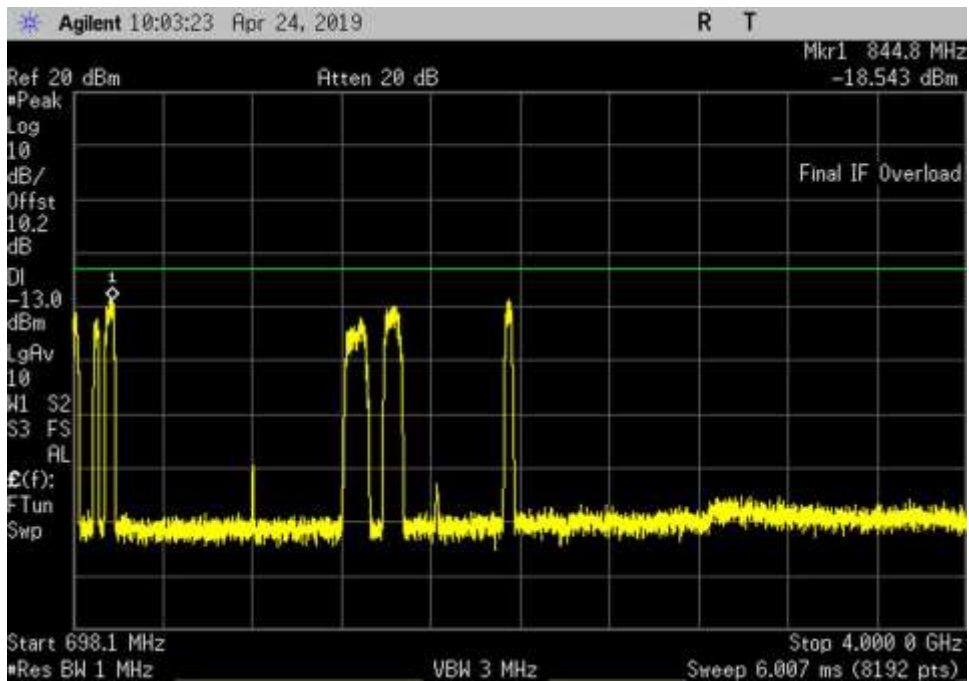
UL\_663-698\_AWGN\_30-662.9MHz\_HC



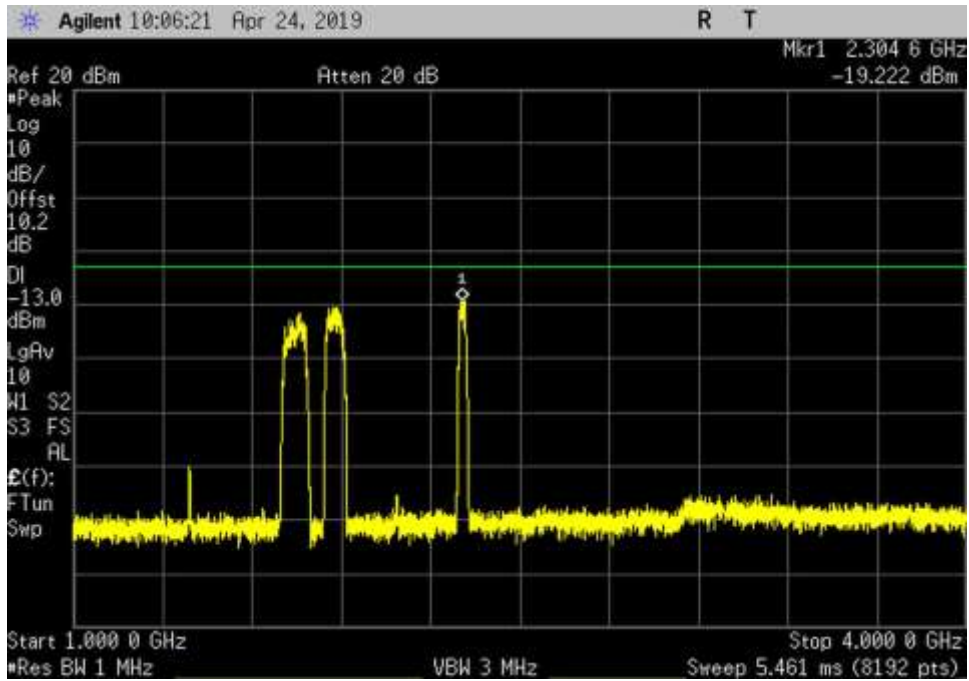
UL\_663-698\_AWGN\_698.1-1000MHz\_HC



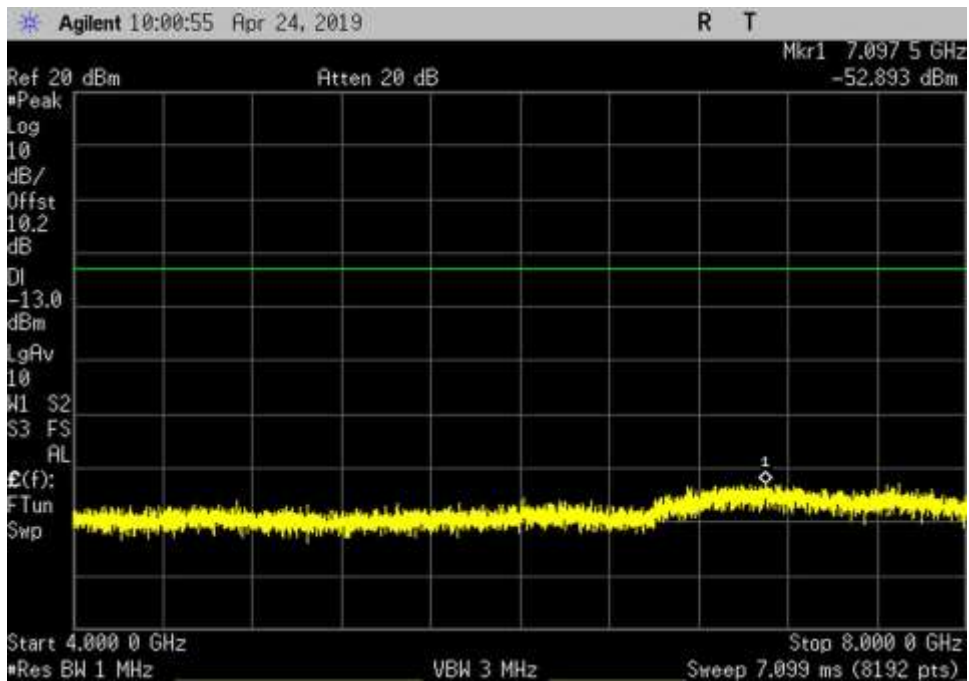
UL\_663-698\_AWGN\_698.1-4000MHz\_LC



UL\_663-698\_AWGN\_698.1-4000MHz\_MC

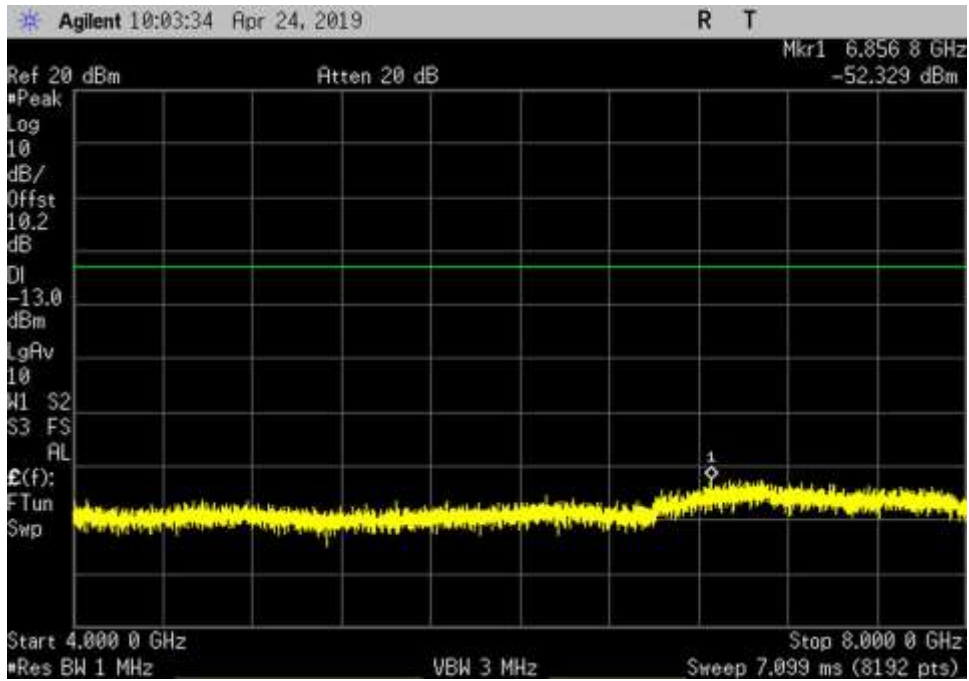


UL\_663-698\_AWGN\_1000-4000MHz\_HC

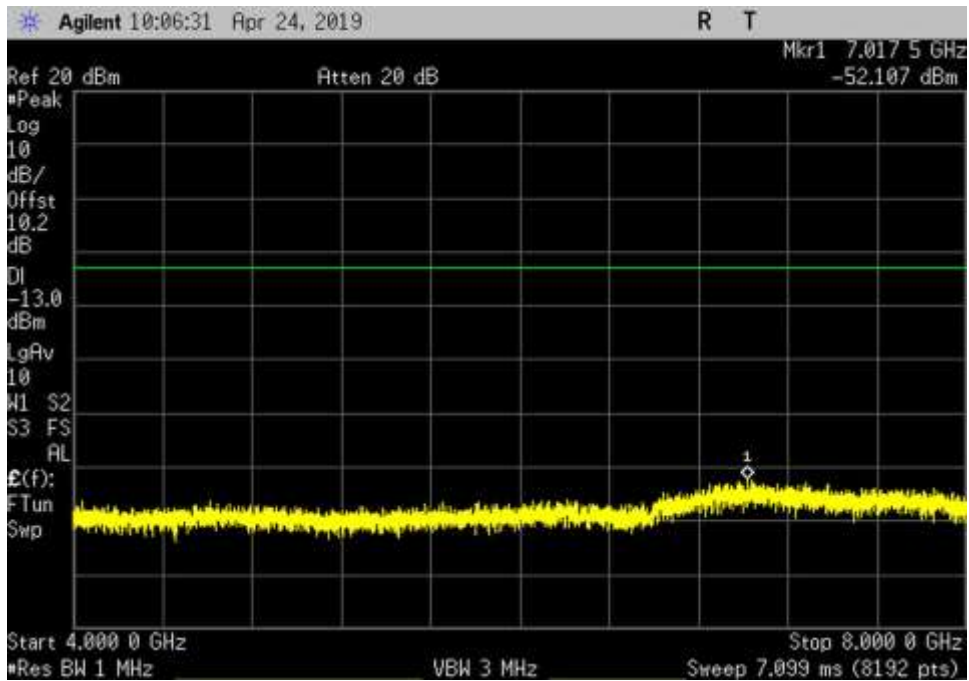


UL\_663-698\_AWGN\_4000-8000MHz\_LC

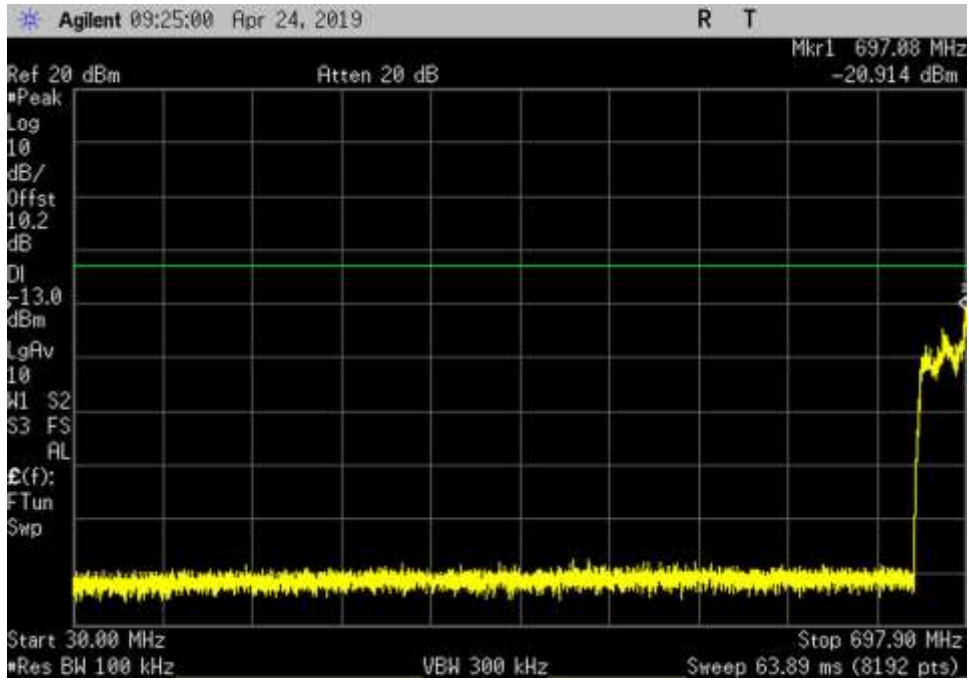




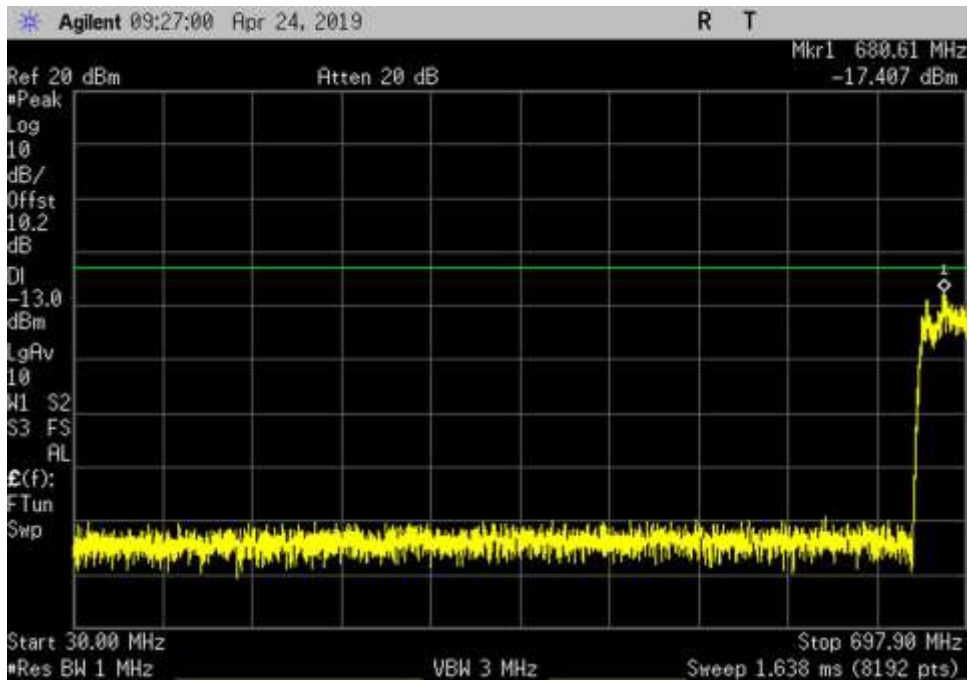
UL\_663-698\_AWGN\_4000-8000MHz\_MC



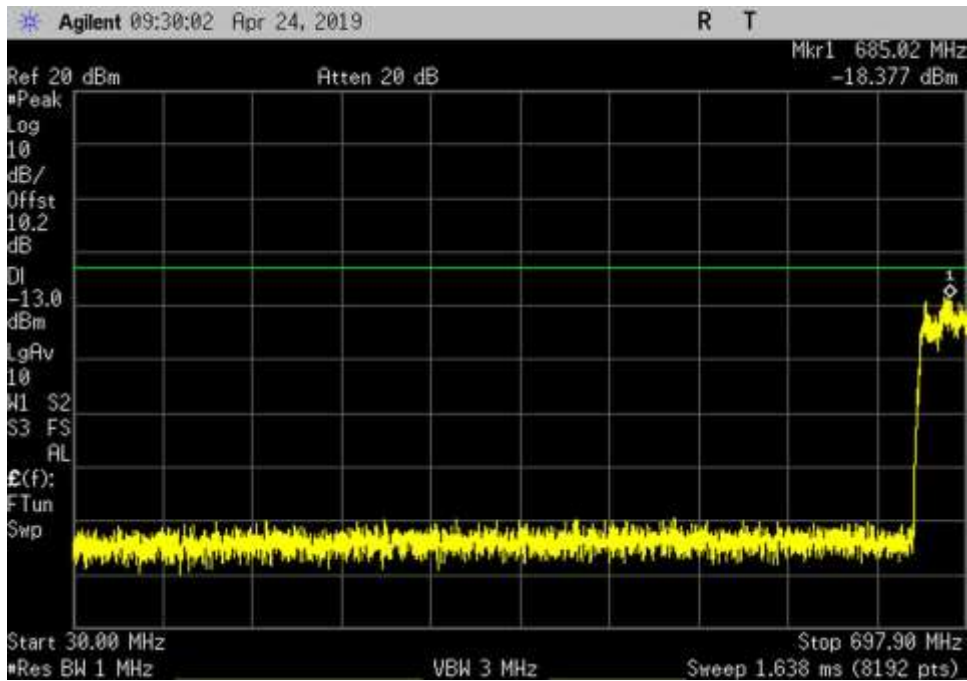
UL\_663-698\_AWGN\_4000-8000MHz\_HC



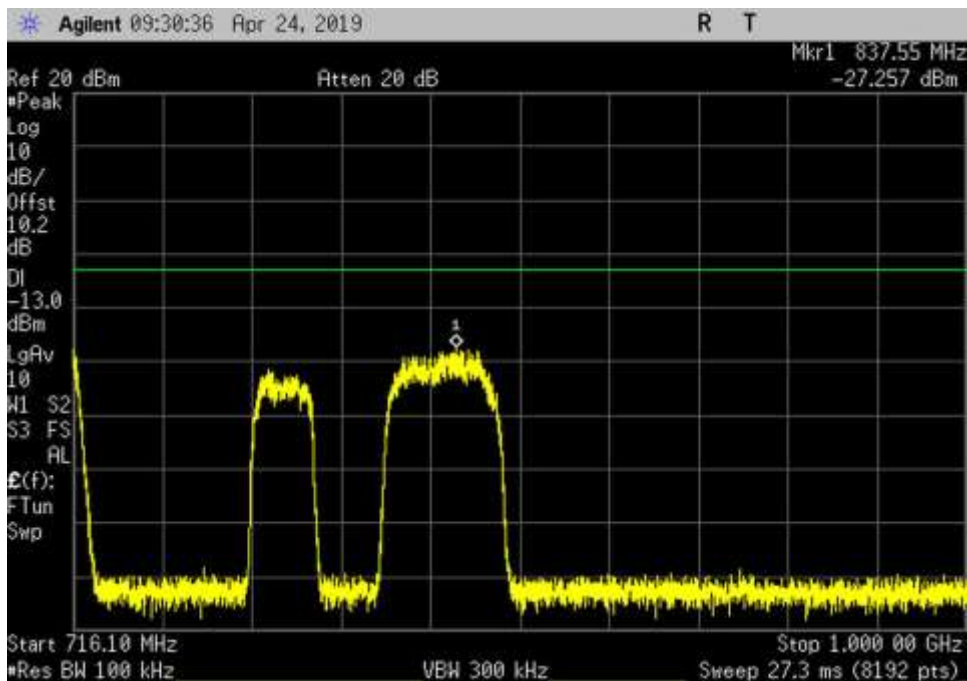
UL\_698-716\_AWGN\_30-697.9MHz\_LC



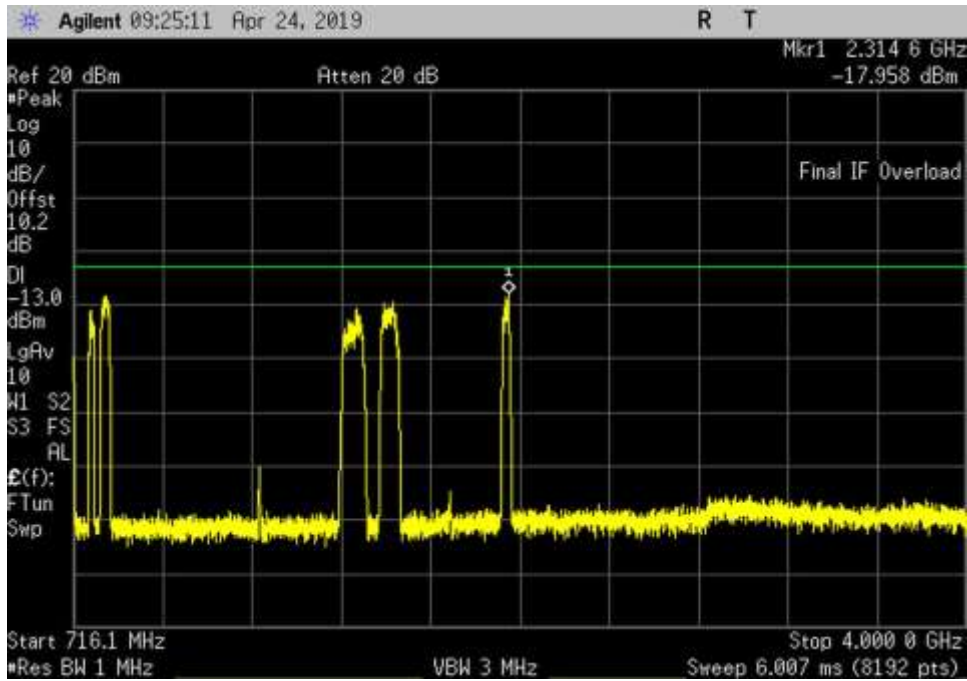
UL\_698-716\_AWGN\_30-697.9MHz\_MC



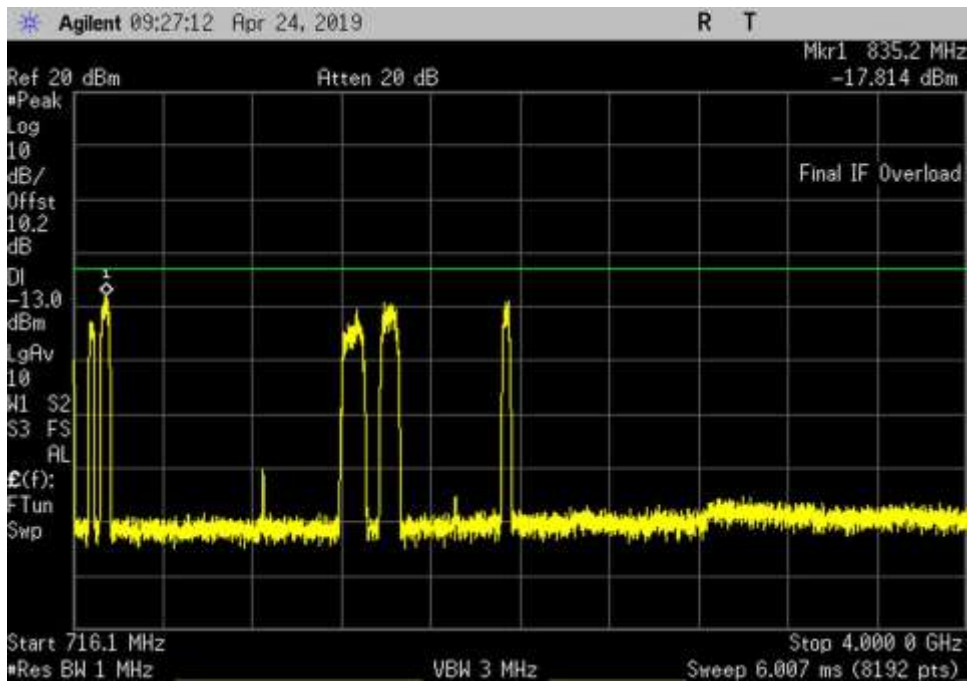
UL\_698-716\_AWGN\_30-697.9MHz\_HC



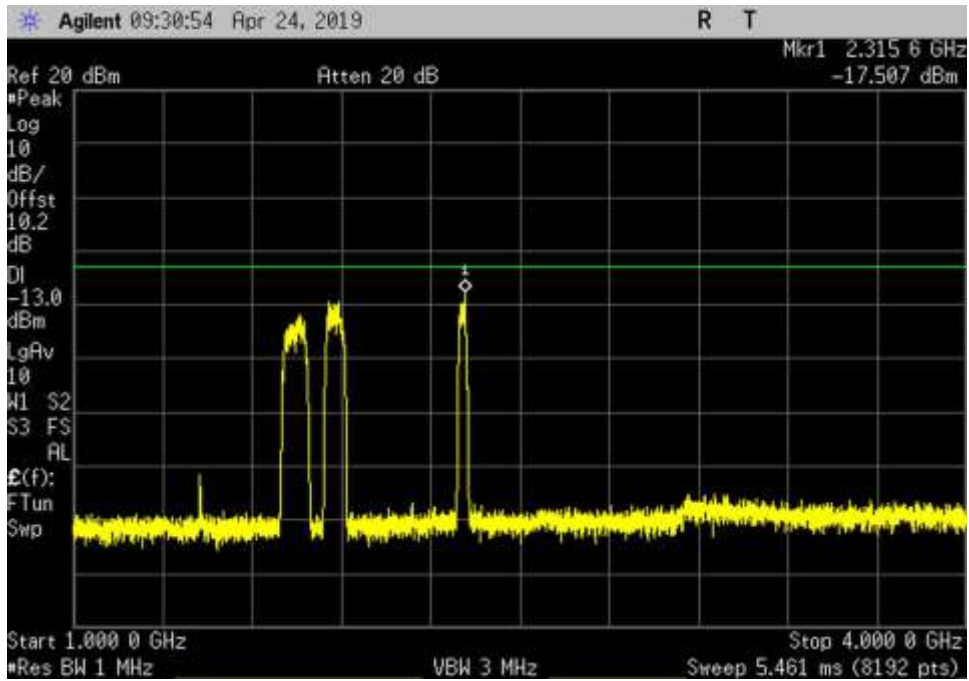
UL\_698-716\_AWGN\_716.1-1000MHz\_HC



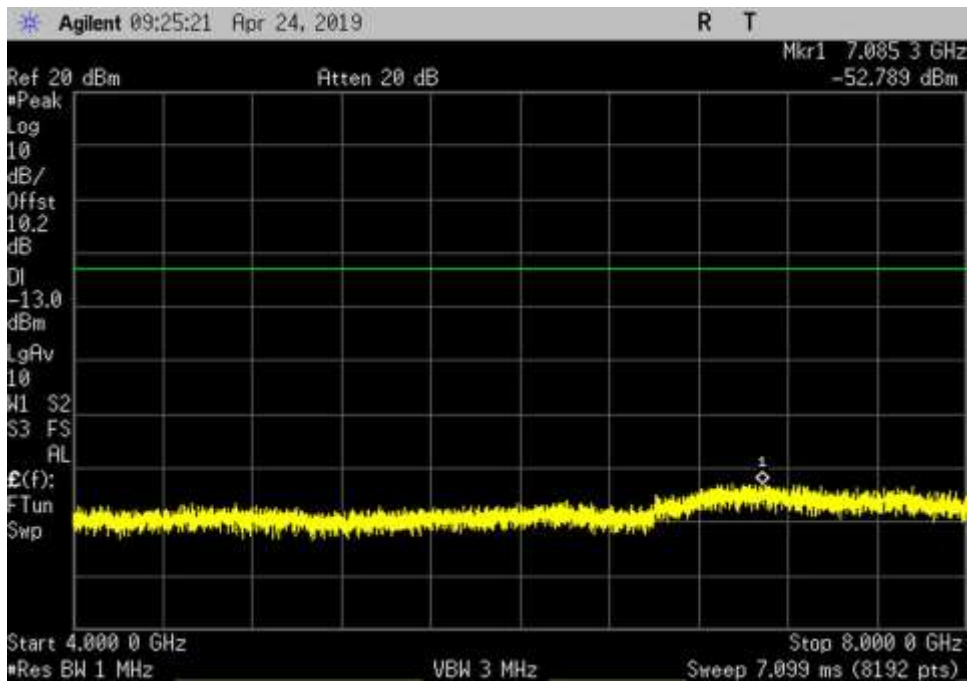
UL\_698-716\_AWGN\_716.1- 4000MHz\_LC



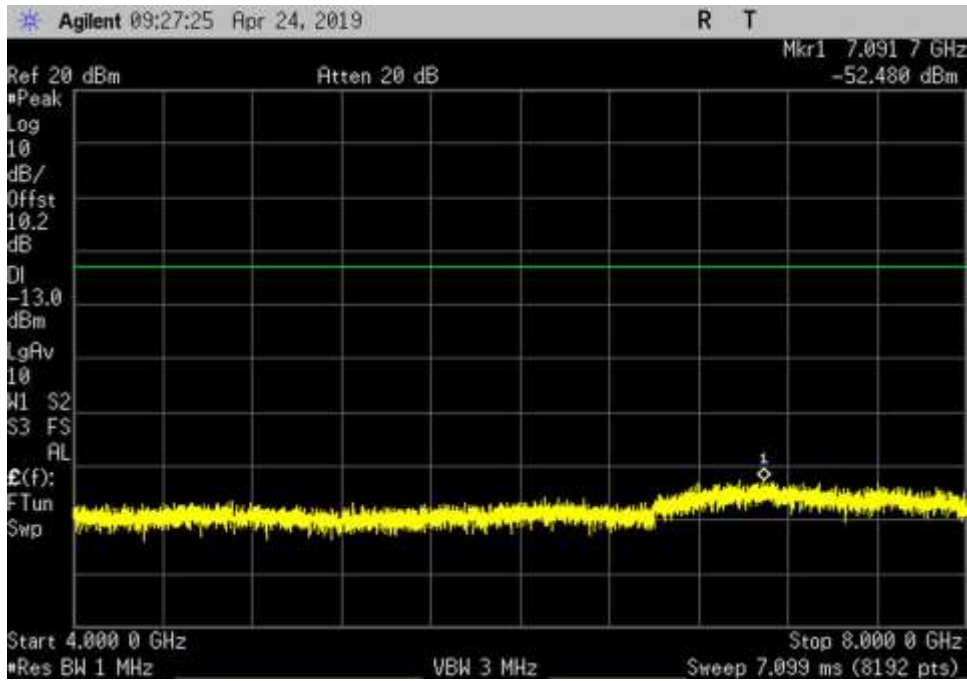
UL\_698-716\_AWGN\_716.1- 4000MHz\_MC



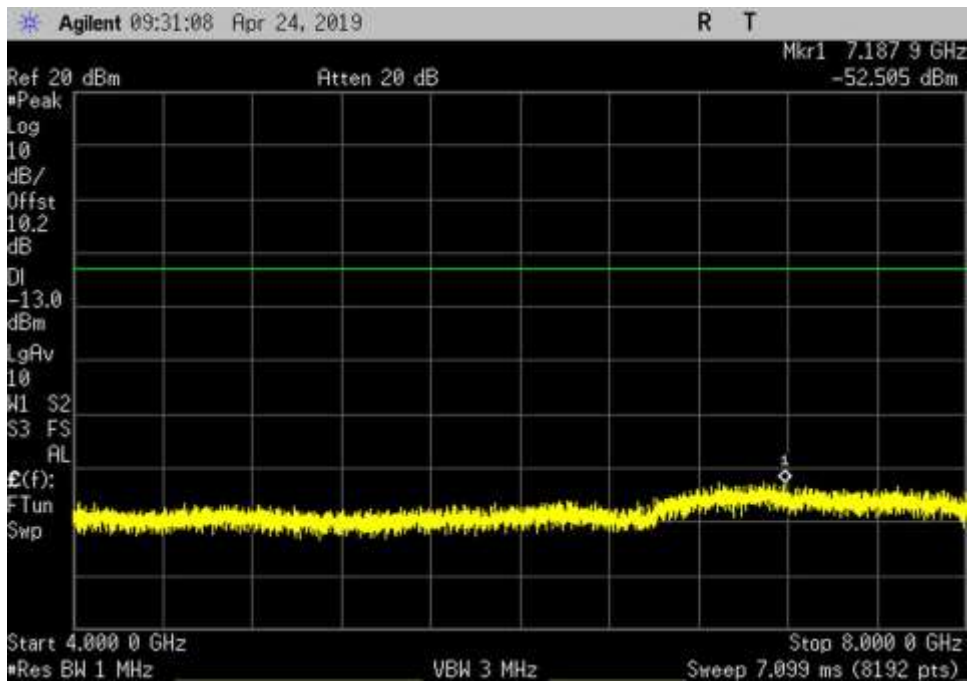
UL\_698-716\_AWGN\_1000-4000MHz\_HC



UL\_698-716\_AWGN\_4000-8000MHz\_LC

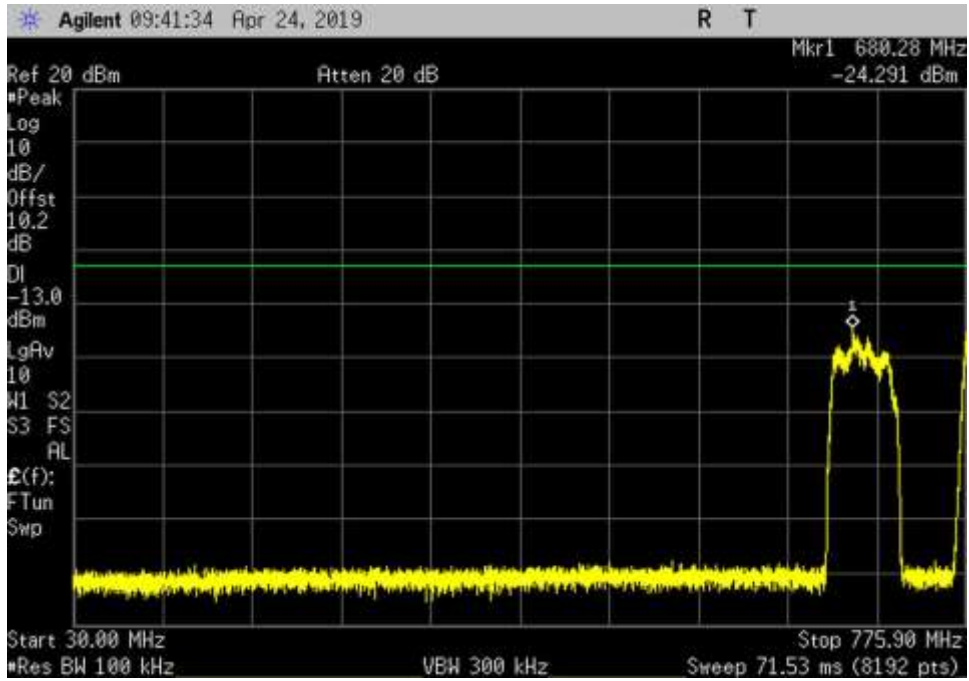


UL\_698-716\_AWGN\_4000-8000MHz\_MC

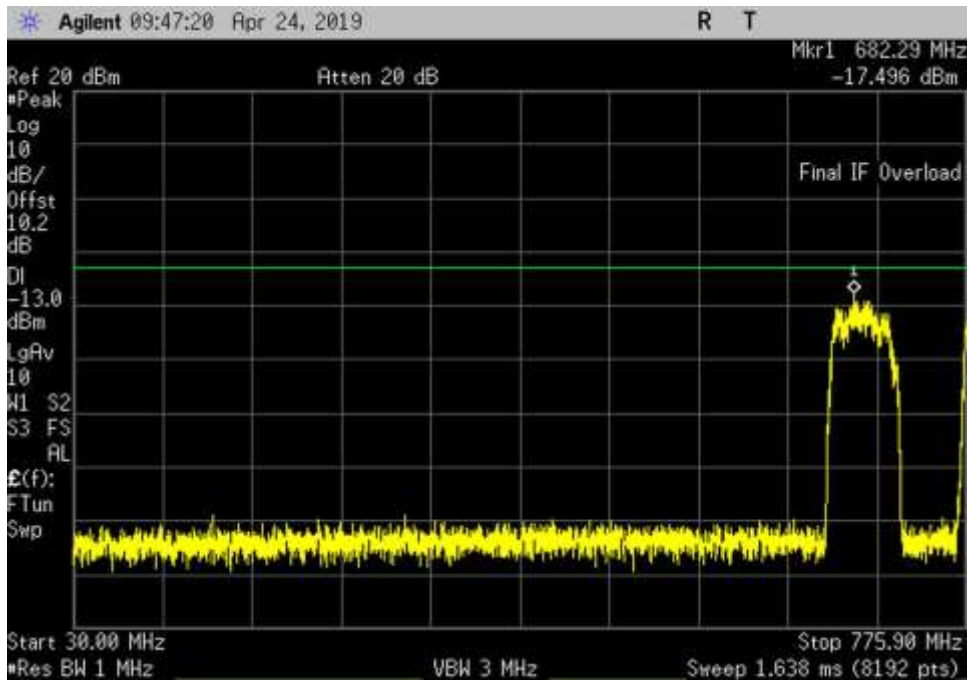


UL\_698-716\_AWGN\_4000-8000MHz\_HC

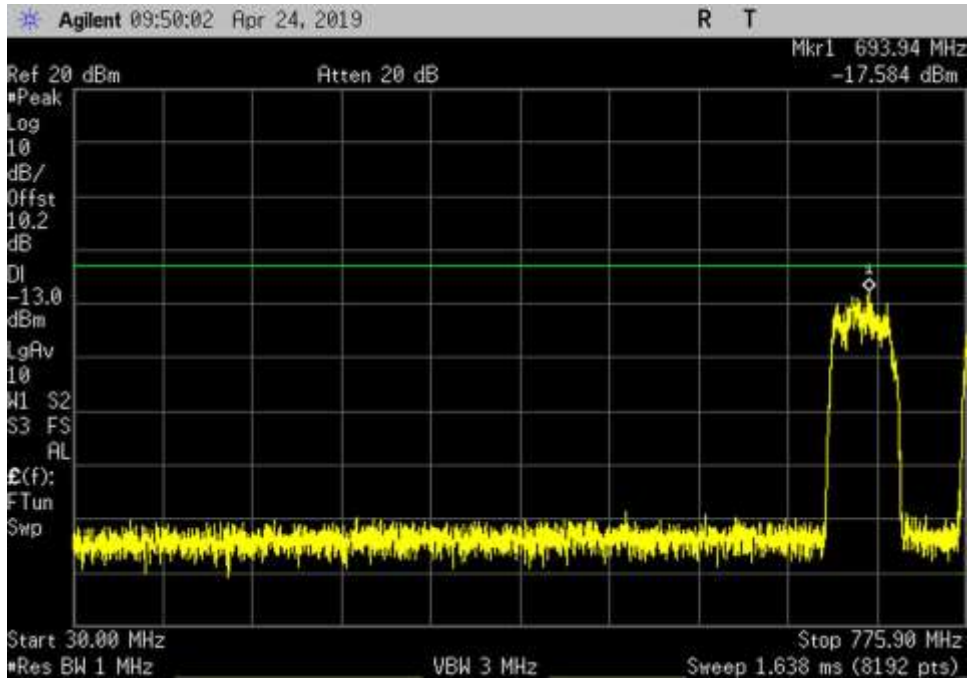




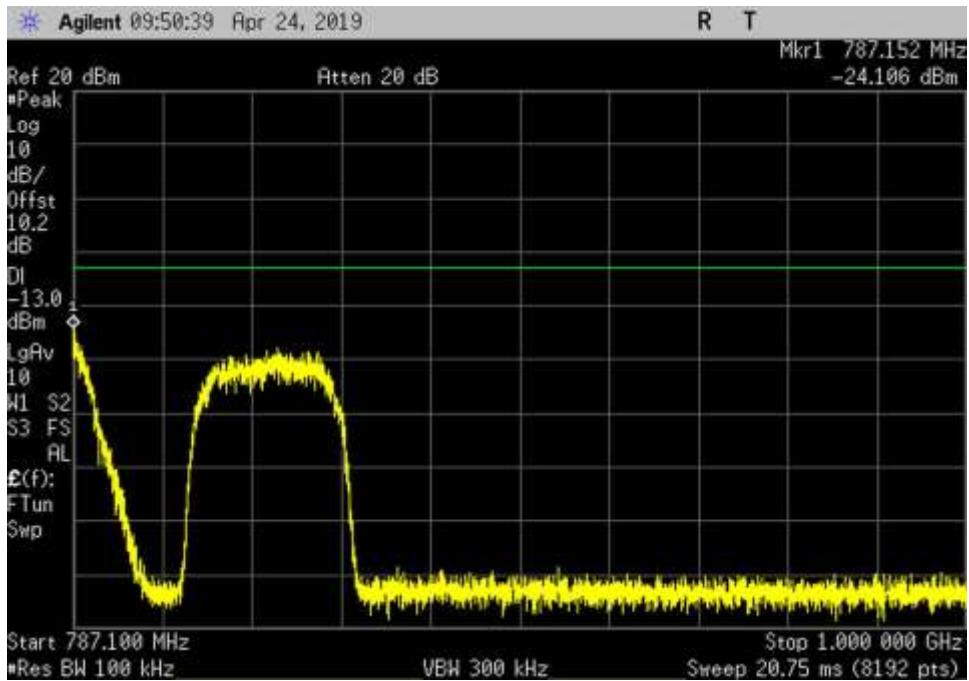
UL\_776-787\_AWGN\_30-775.9MHz\_LC



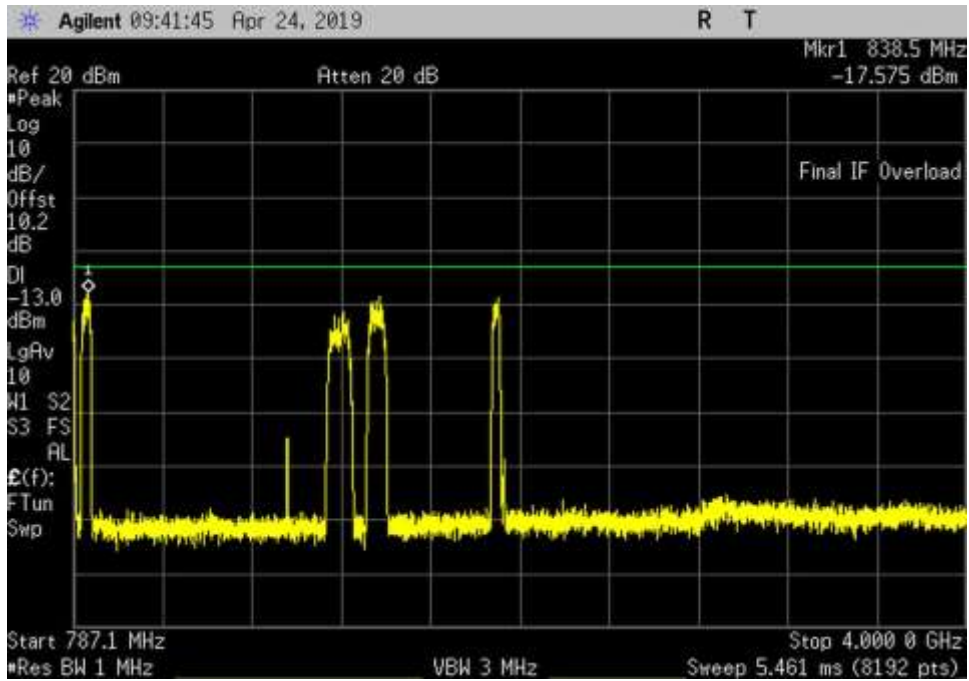
UL\_776-787\_AWGN\_30-775.9MHz\_MC



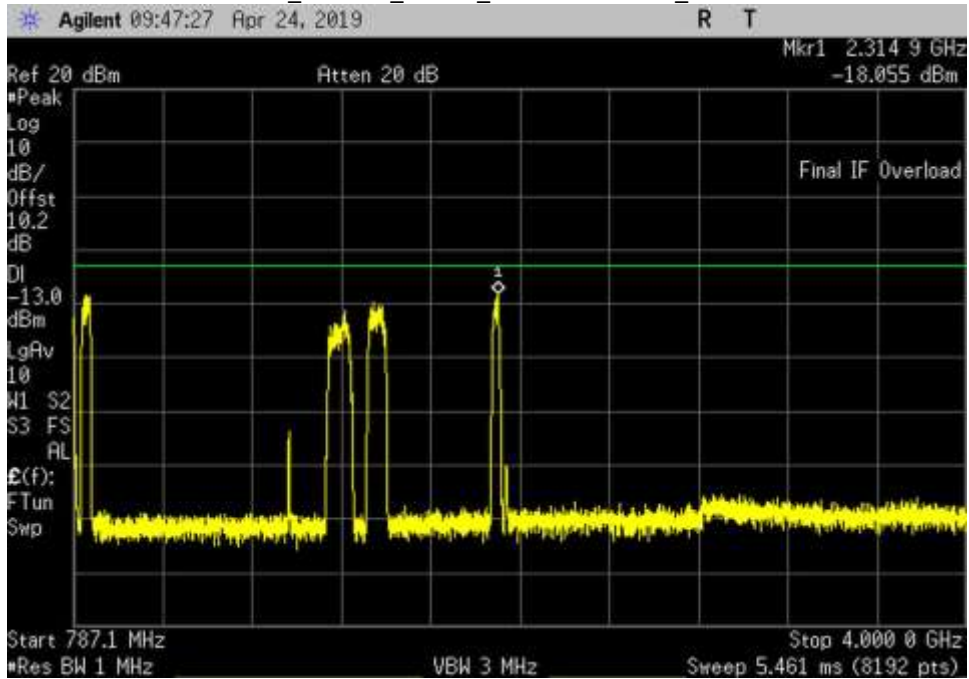
UL\_776-787\_AWGN\_30-775.9MHz\_HC



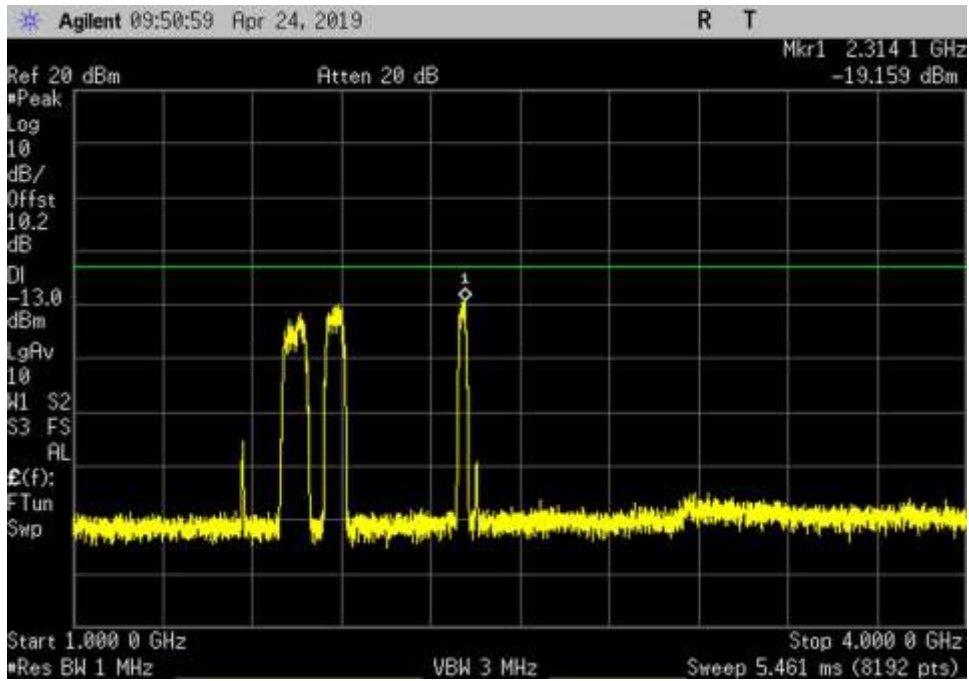
UL\_776-787\_AWGN\_787.1-1000MHz\_HC



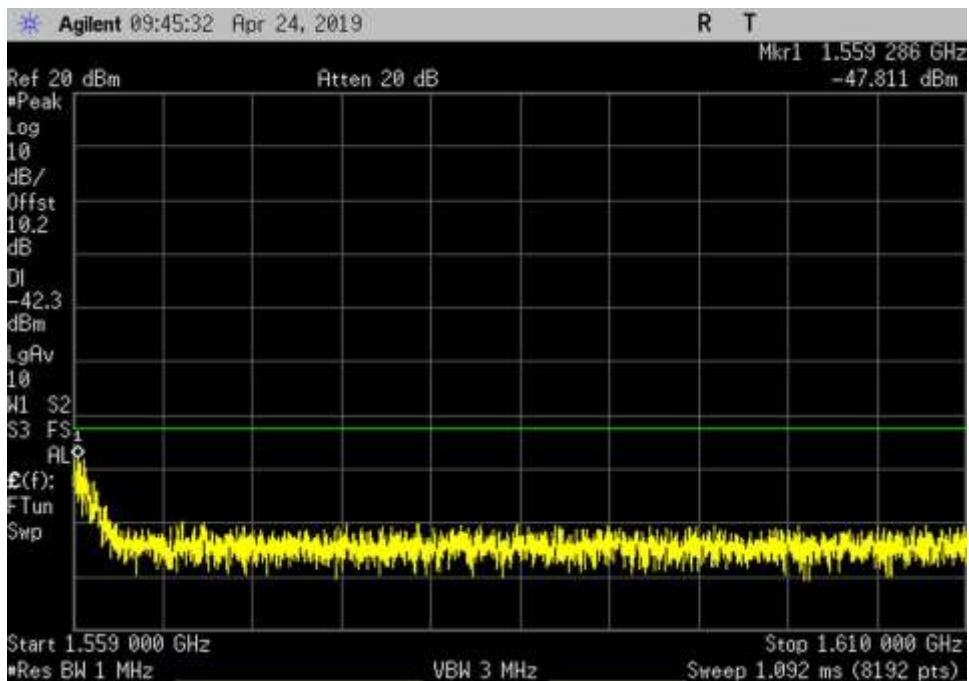
UL\_776-787\_AWGN\_787.1-4000MHz\_LC



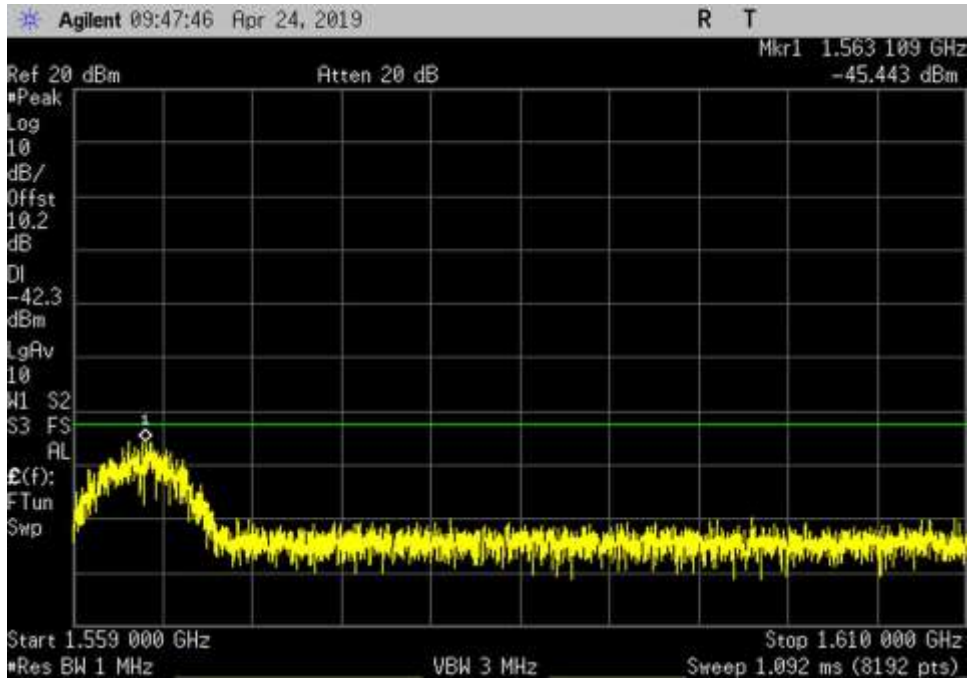
UL\_776-787\_AWGN\_787.1-4000MHz\_MC



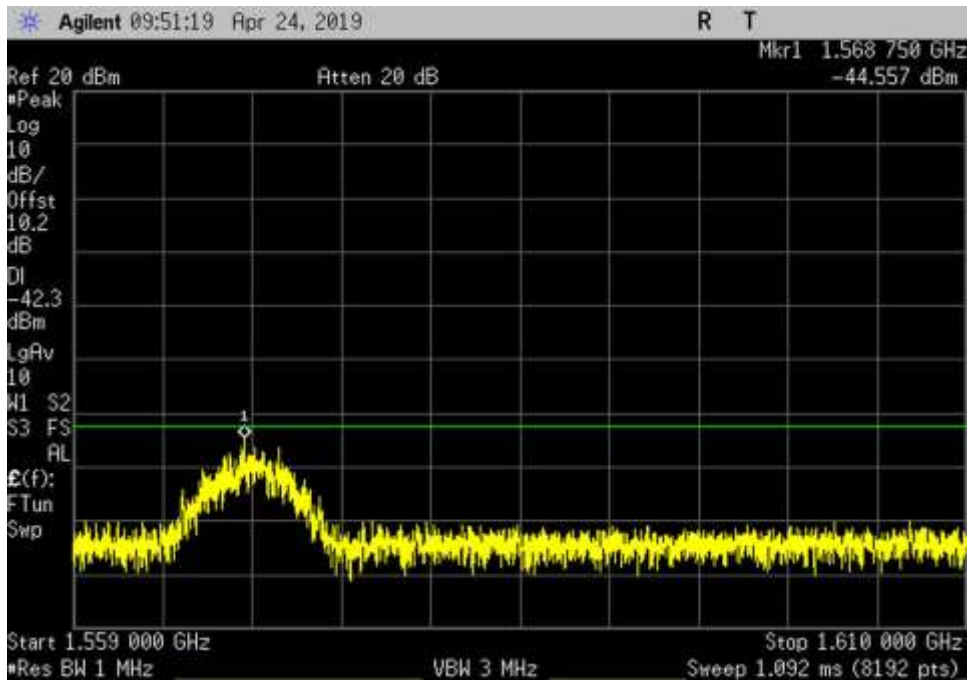
UL\_776-787\_AWGN\_1000-4000MHz\_HC



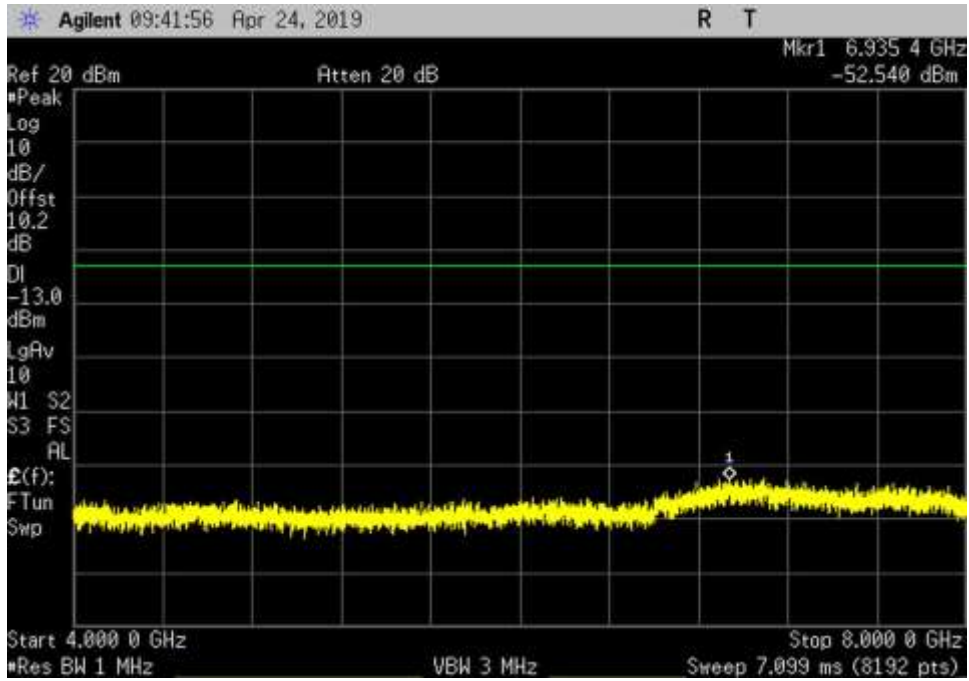
UL\_776-787\_AWGN\_1559-1610MHz\_LC



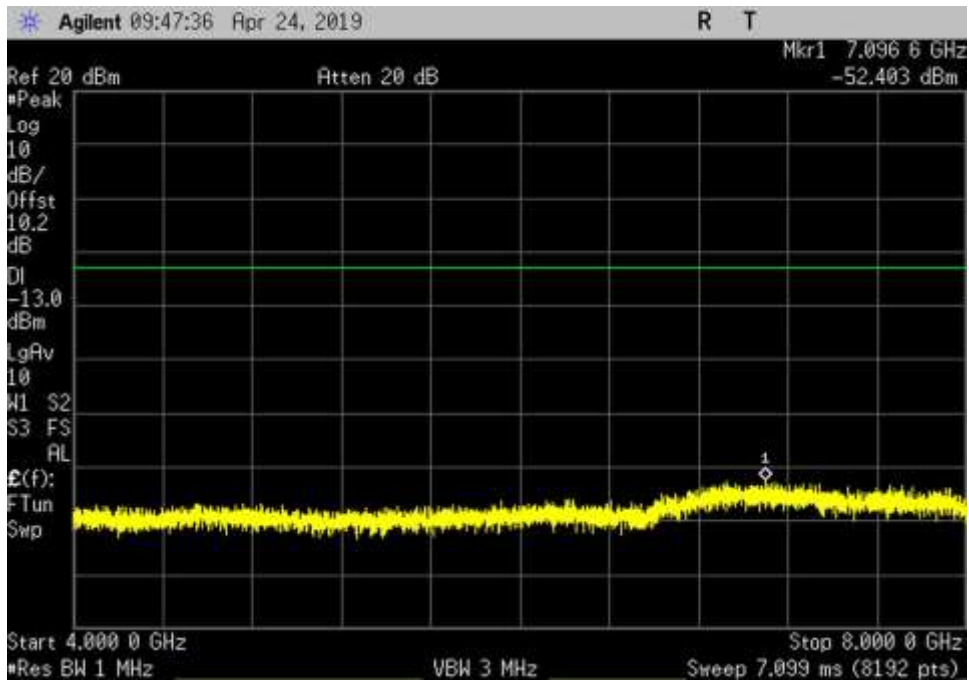
UL\_776-787\_AWGN\_1559-1610MHz\_MC



UL\_776-787\_AWGN\_1559-1610MHz\_HC

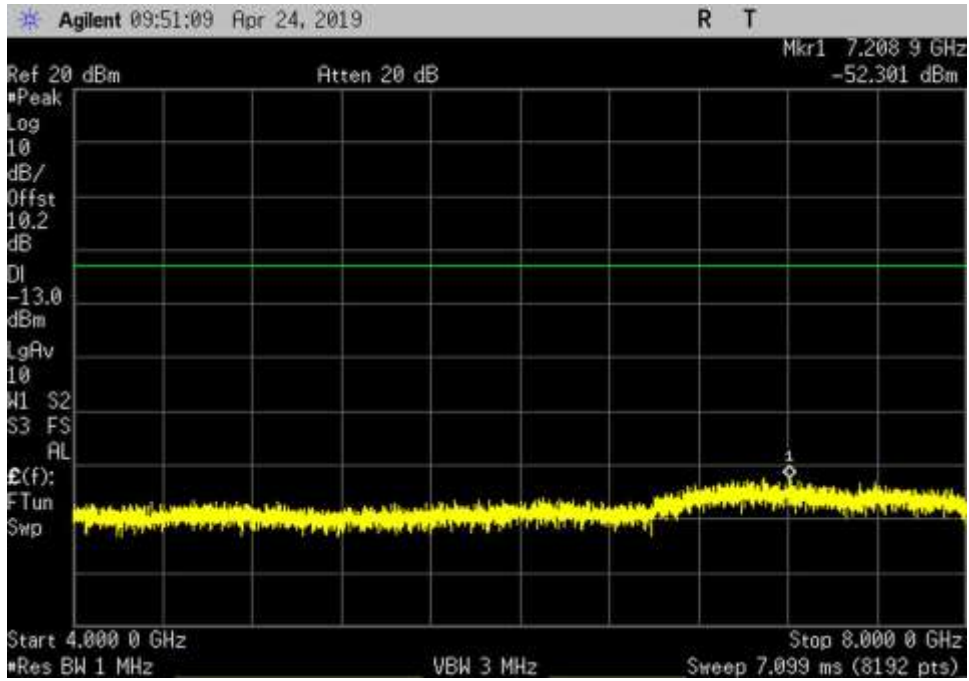


UL\_776-787\_AWGN\_4000-8000MHz\_LC

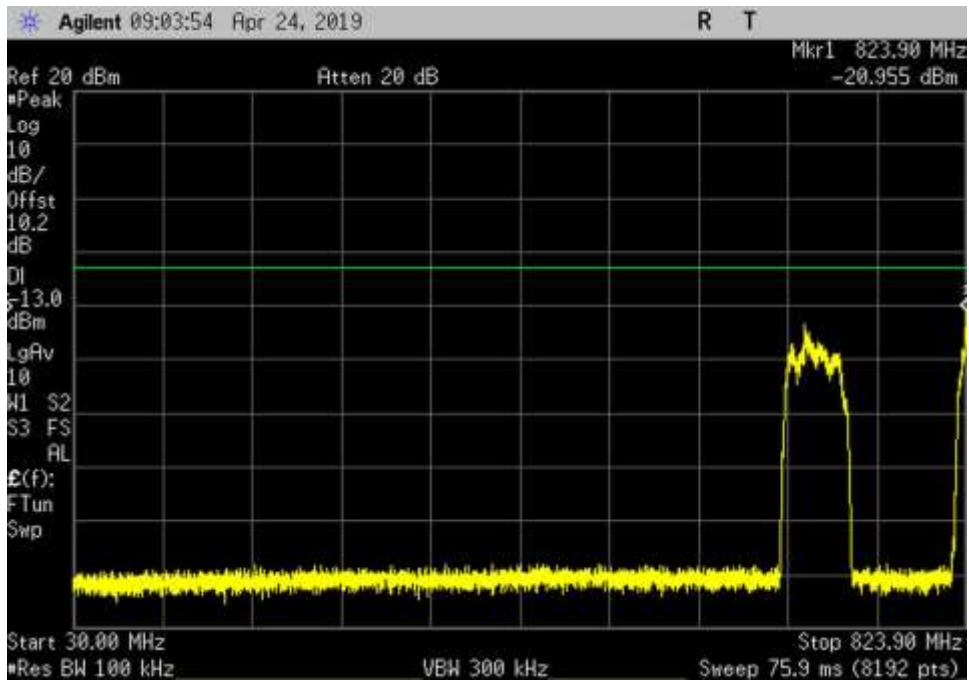


UL\_776-787\_AWGN\_4000-8000MHz\_MC

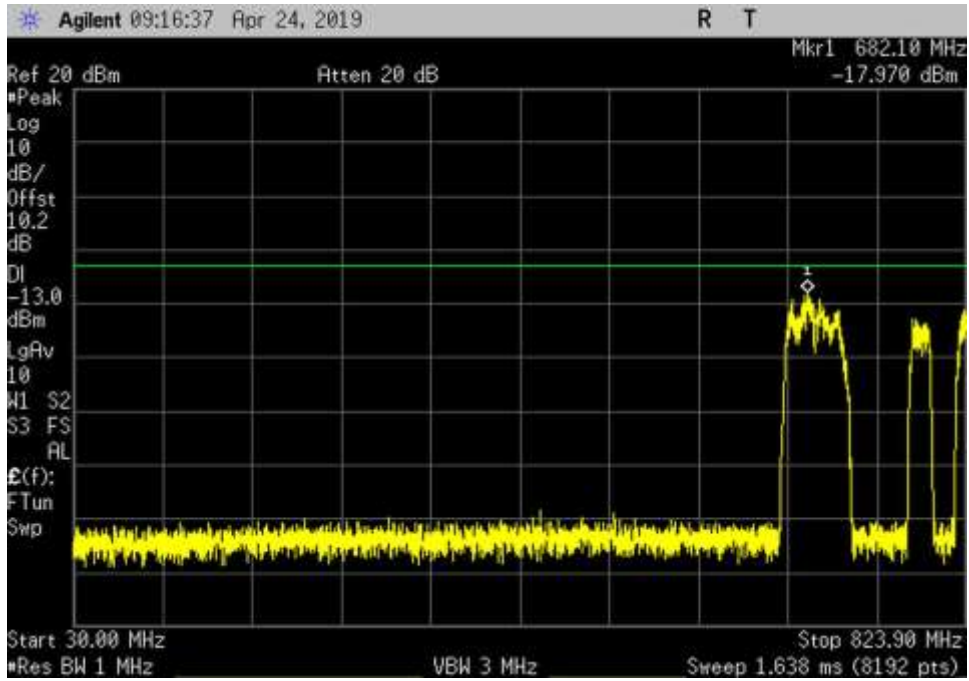




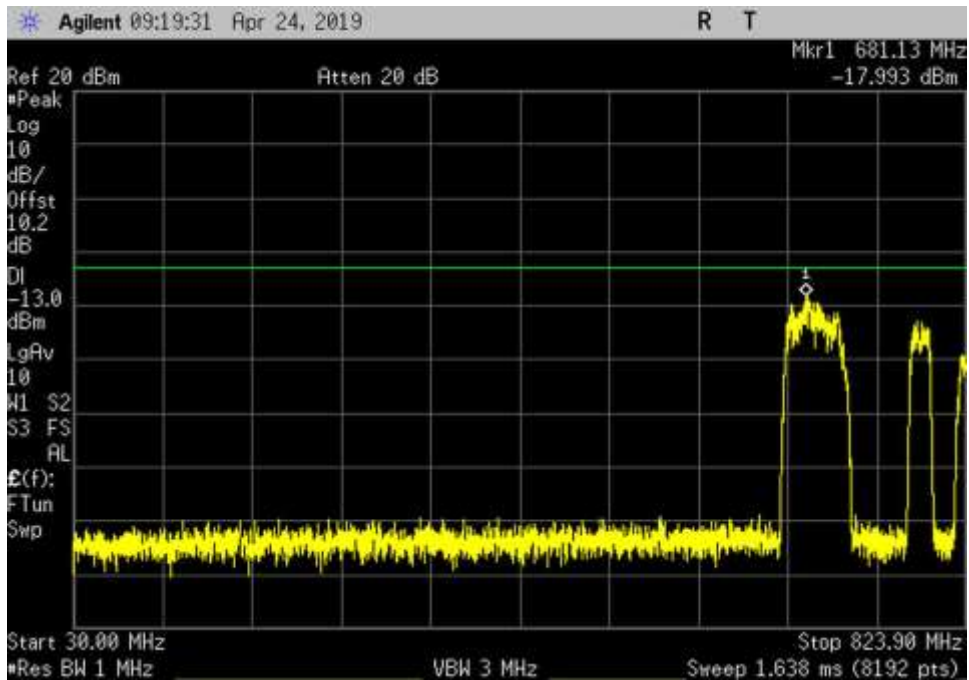
UL\_776-787\_AWGN\_4000-8000MHz\_HC



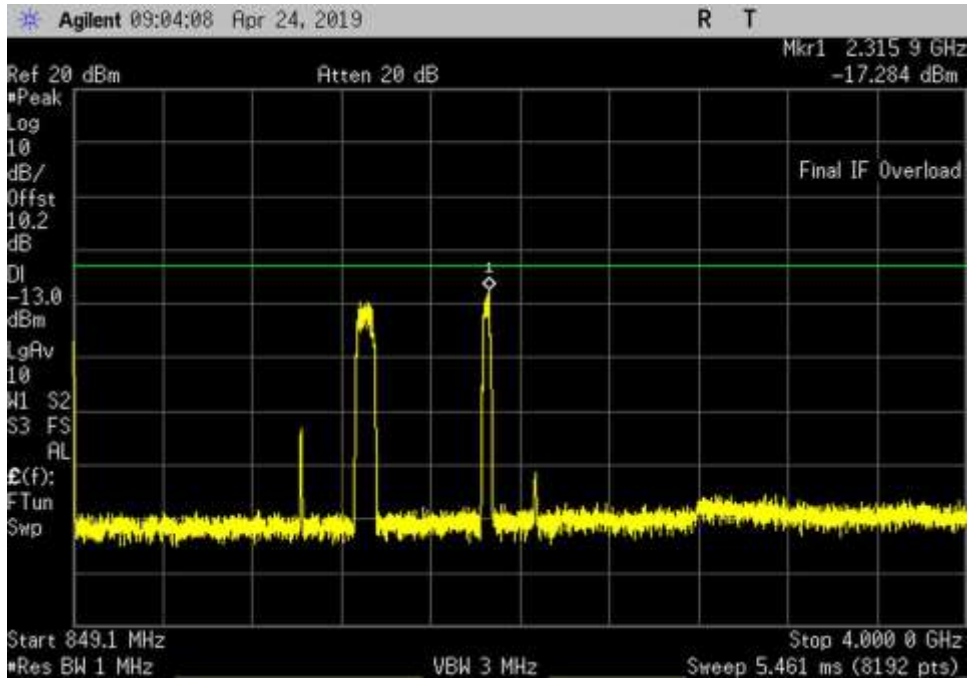
UL\_824-849\_AWGN\_30-823.9MHz\_LC



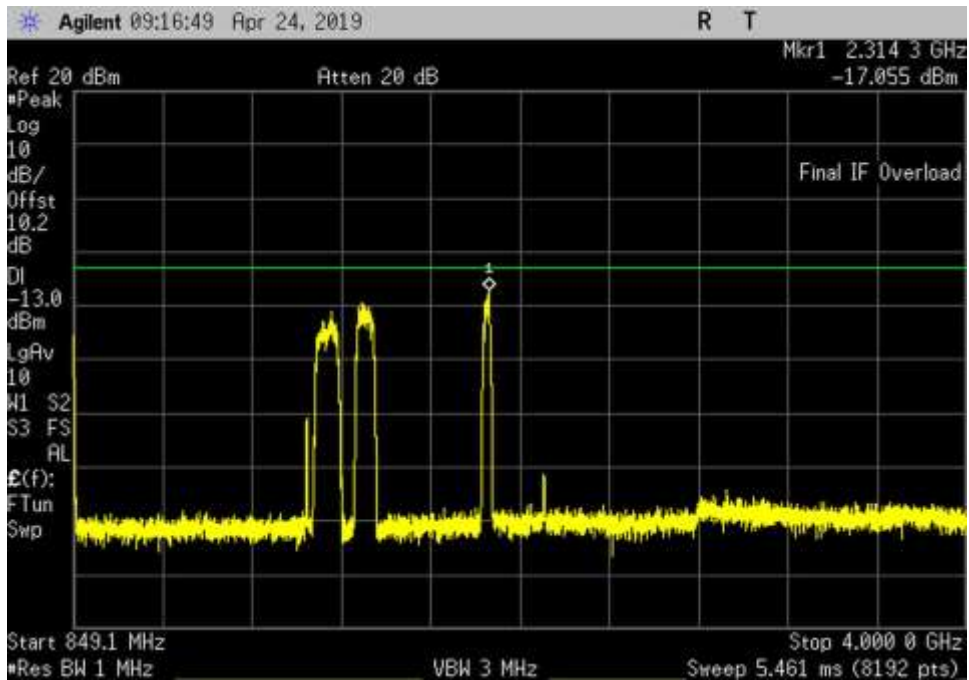
UL\_824-849\_AWGN\_30-823.9MHz\_MC



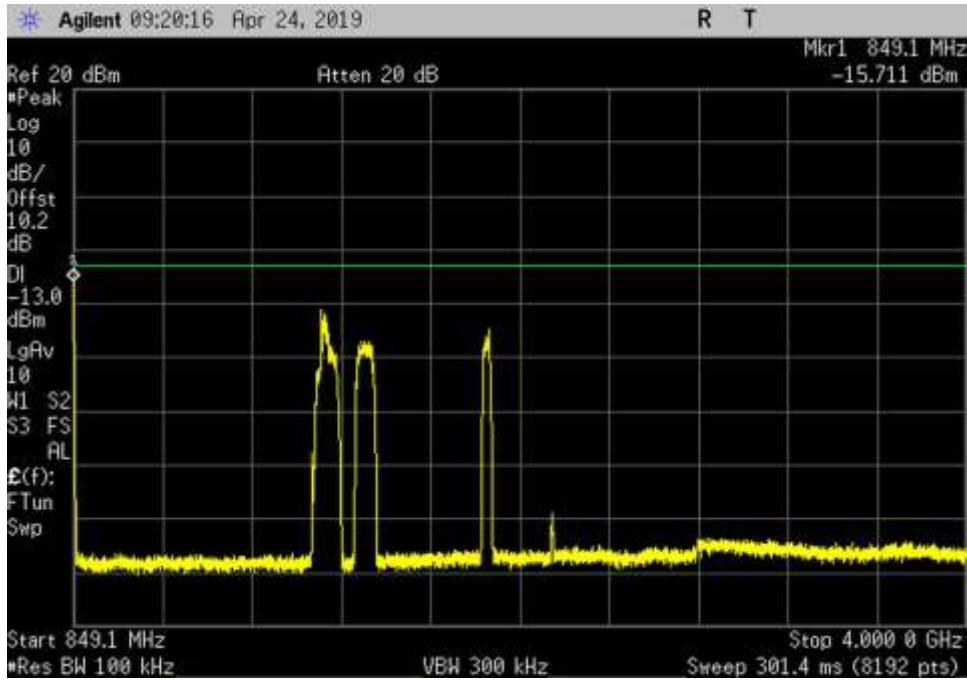
UL\_824-849\_AWGN\_30-823.9MHz\_HC



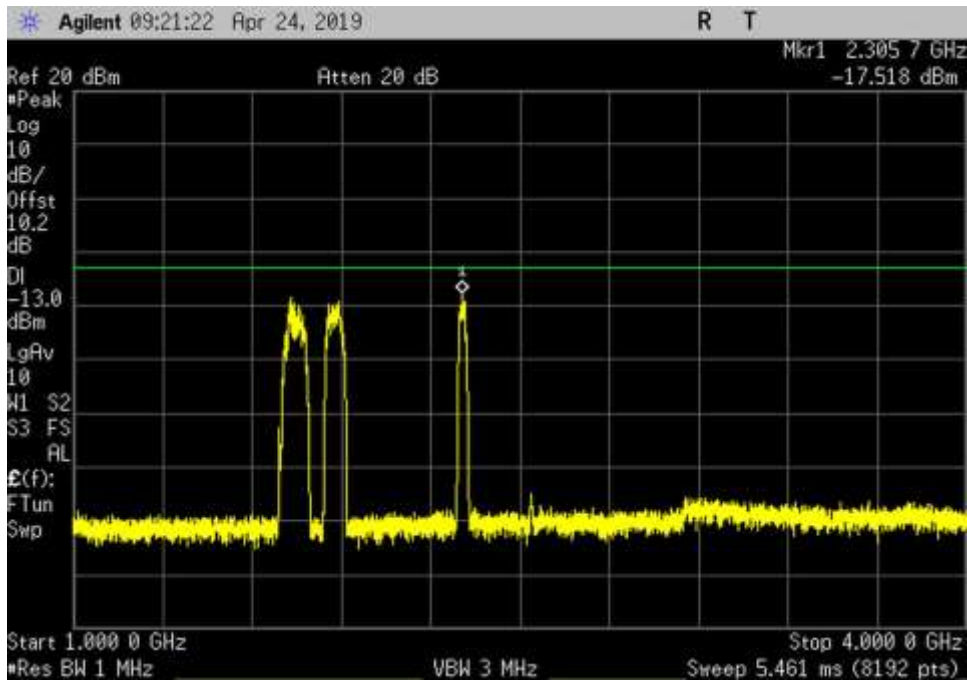
UL\_824-849\_AWGN\_849.1- 4000MHz\_LC



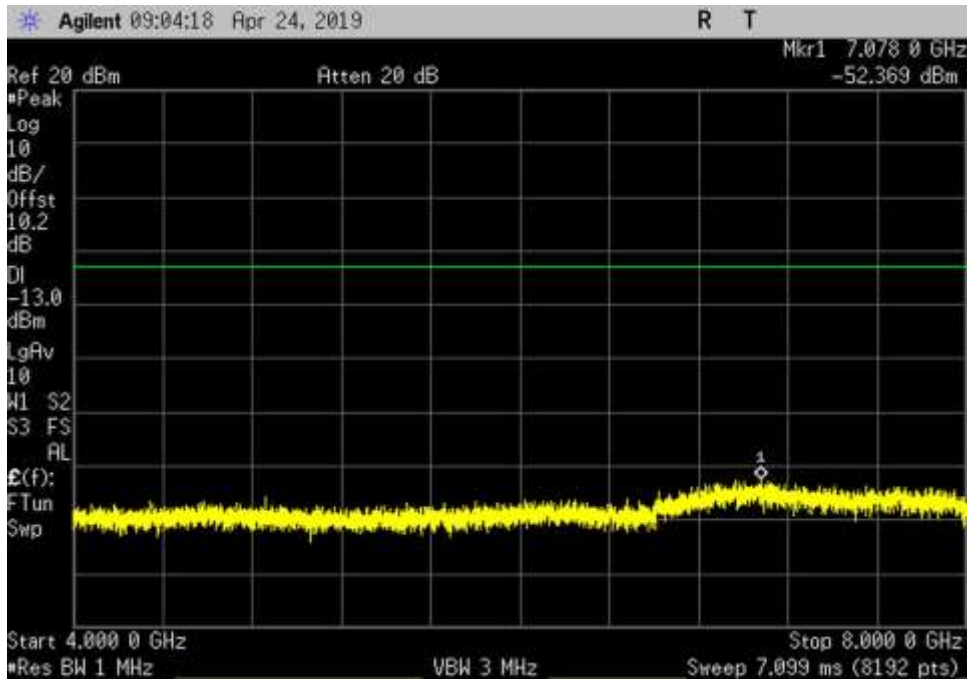
UL\_824-849\_AWGN\_849.1- 4000MHz\_MC



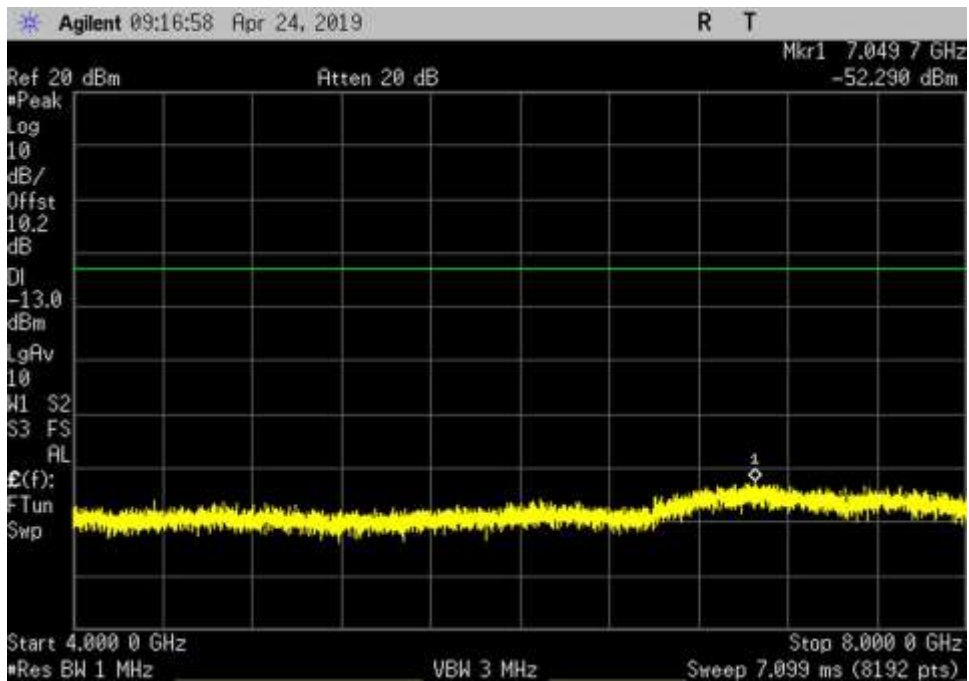
UL\_824-849\_AWGN\_849.1-4000MHz\_HC



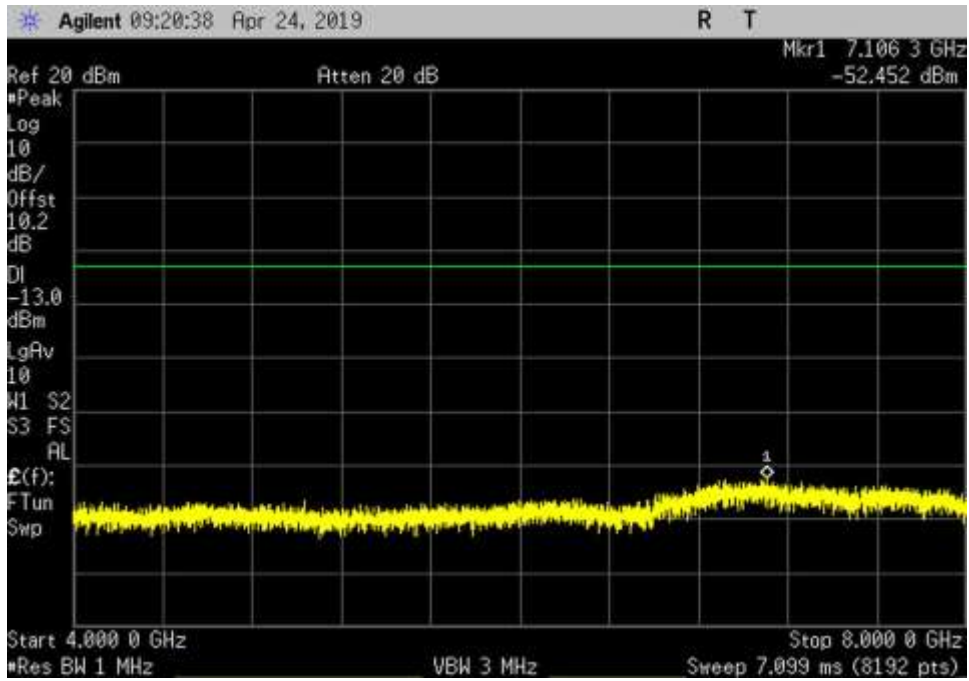
UL\_824-849\_AWGN\_1000-4000MHz\_HC



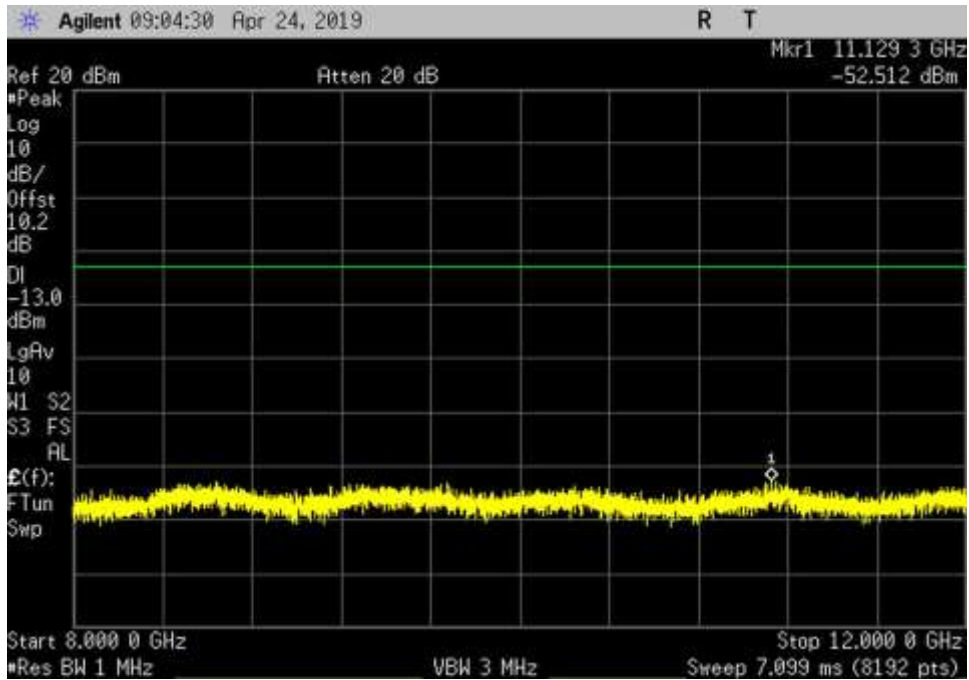
UL\_824-849\_AWGN\_4000-8000MHz\_LC



UL\_824-849\_AWGN\_4000-8000MHz\_MC

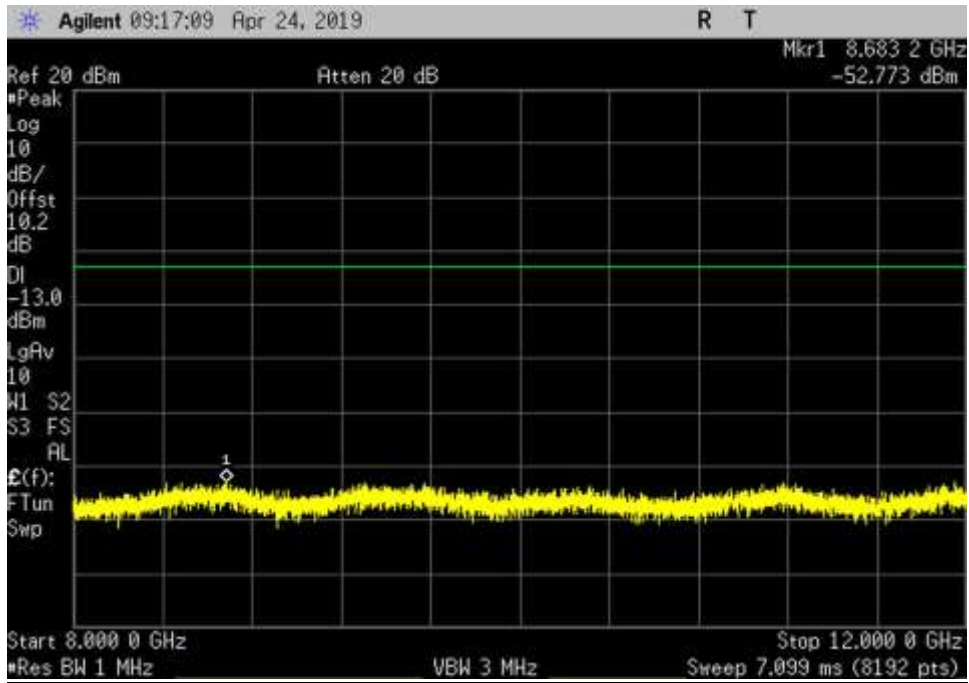


UL\_824-849\_AWGN\_4000-8000MHz\_HC

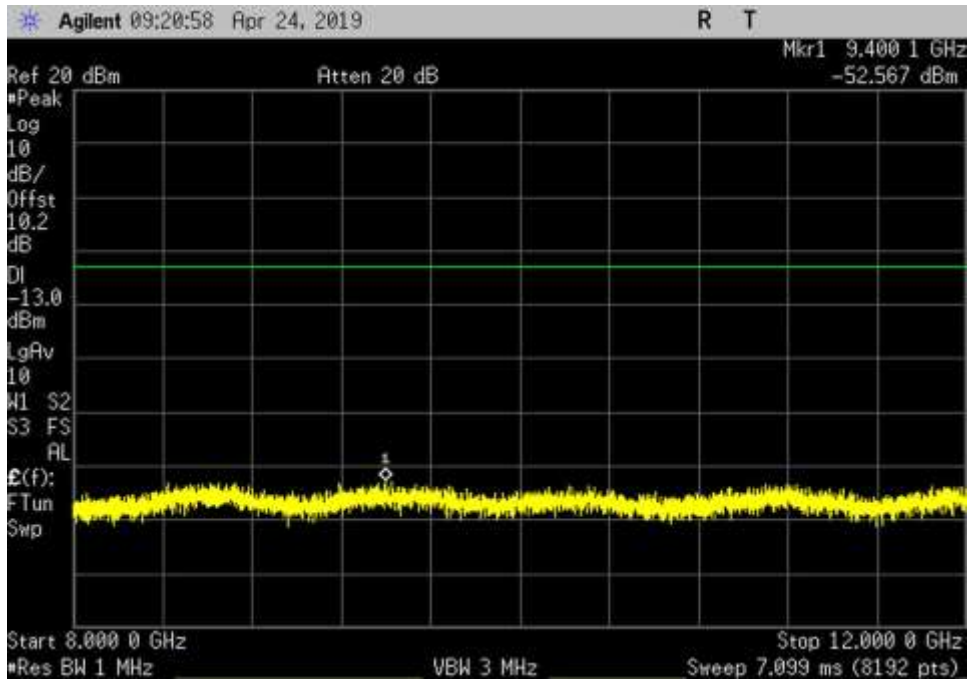


UL\_824-849\_AWGN\_8000-12000MHz\_LC

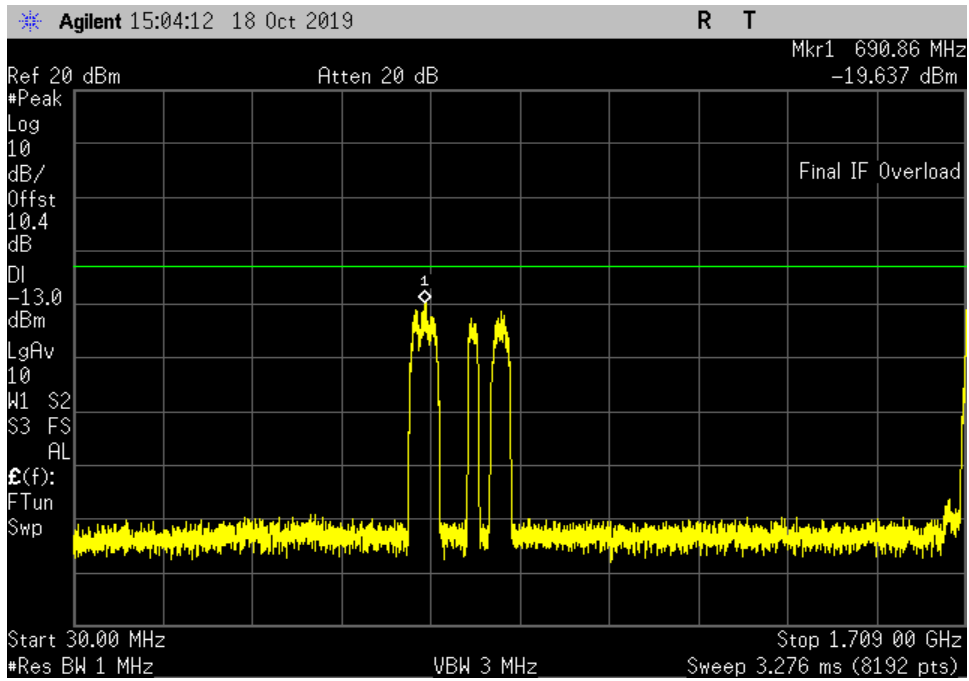




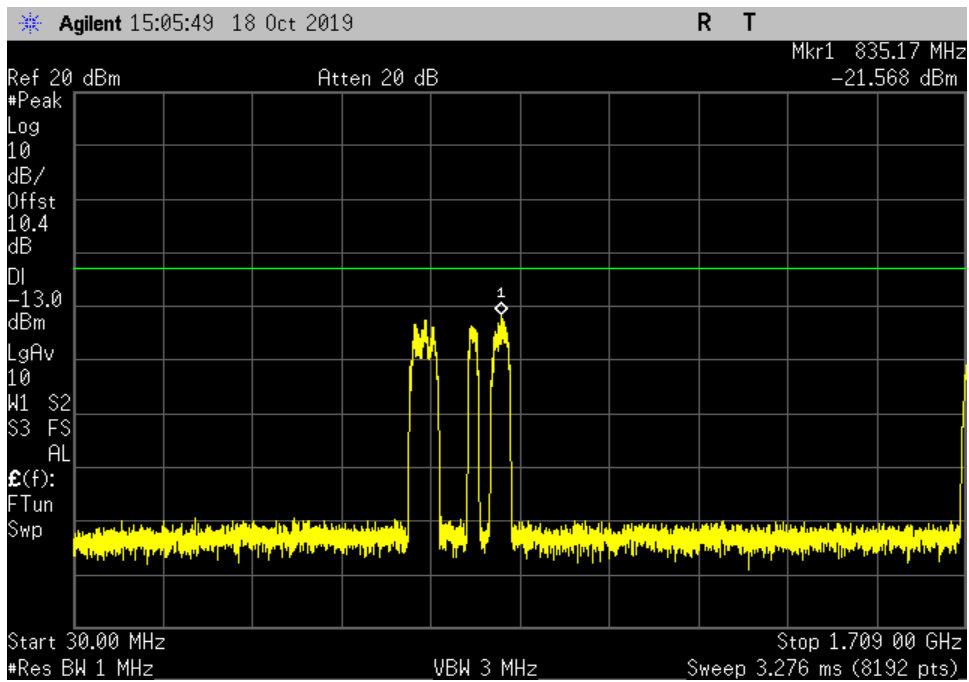
UL\_824-849\_AWGN\_8000-12000MHz\_MC



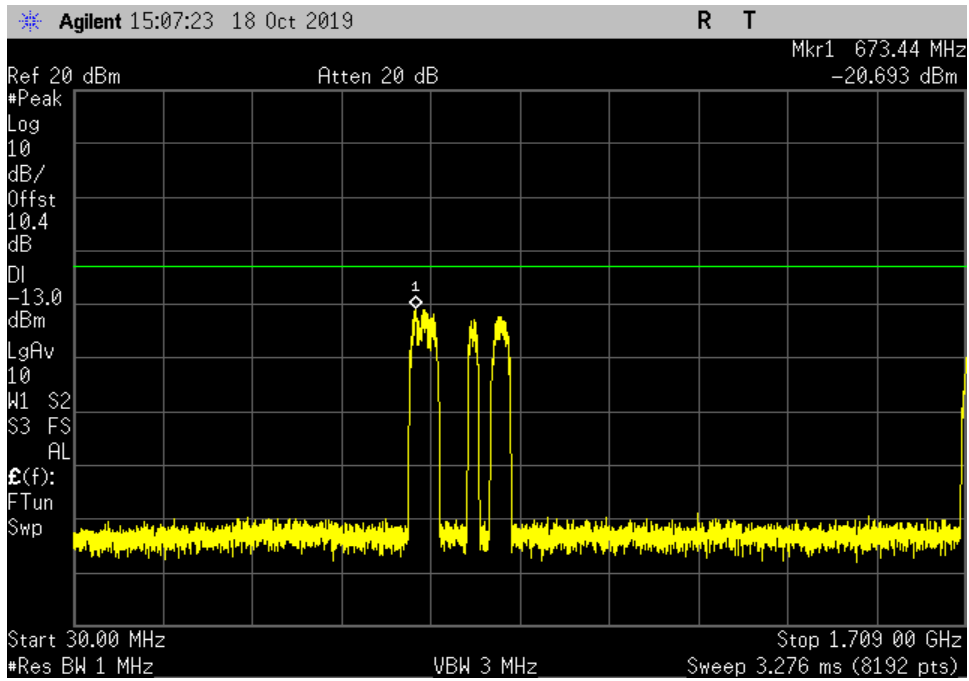
UL\_824-849\_AWGN\_8000-12000MHz\_HC



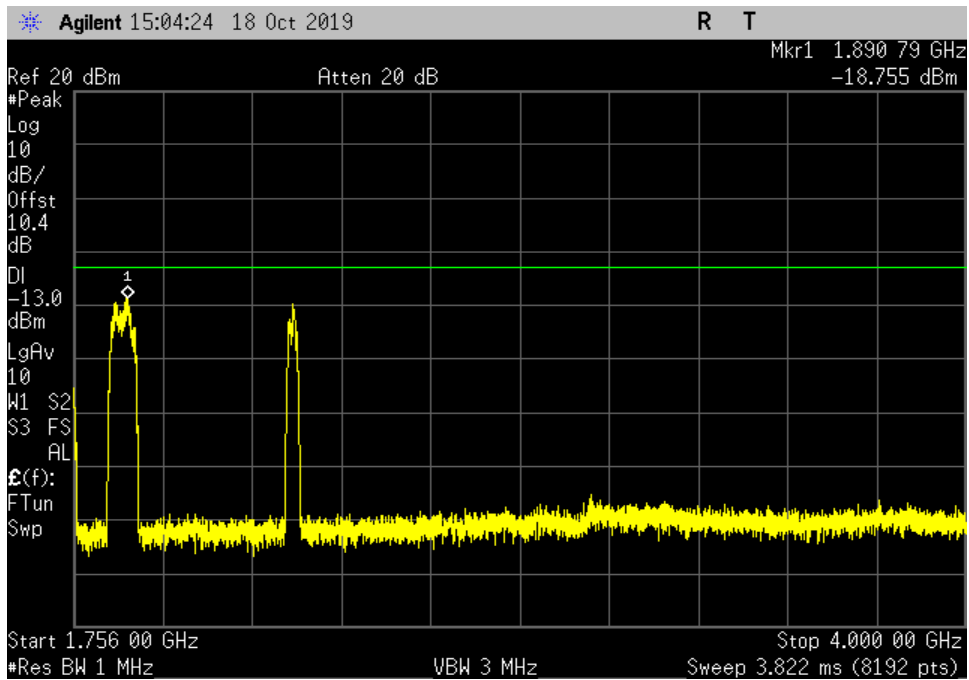
UL\_1710-1755\_AWGN\_30-1709MHz\_LC



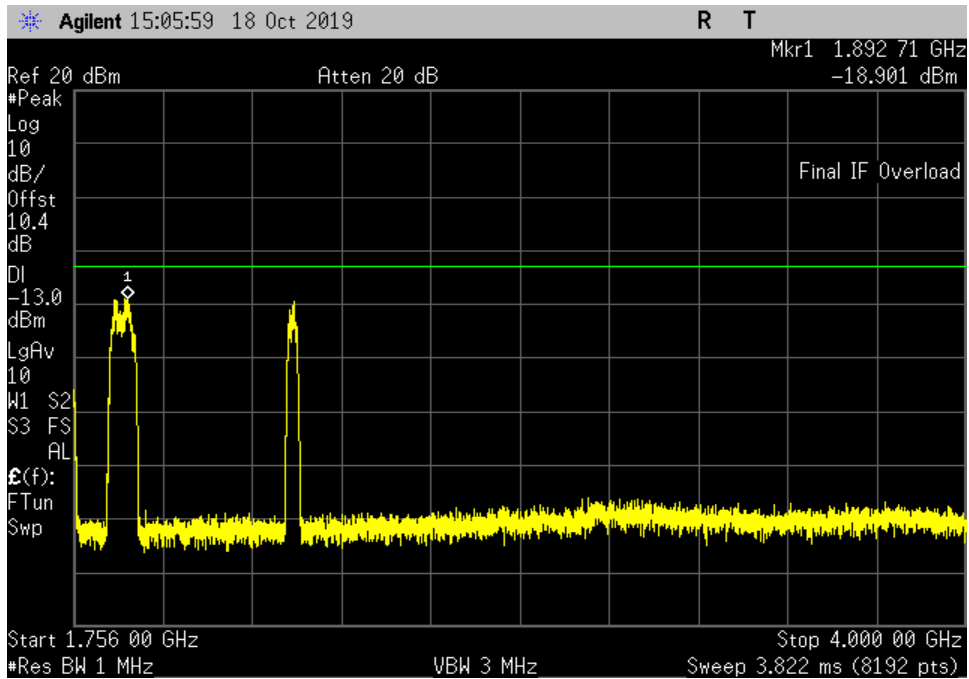
UL\_1710-1755\_AWGN\_30-1709MHz\_MC



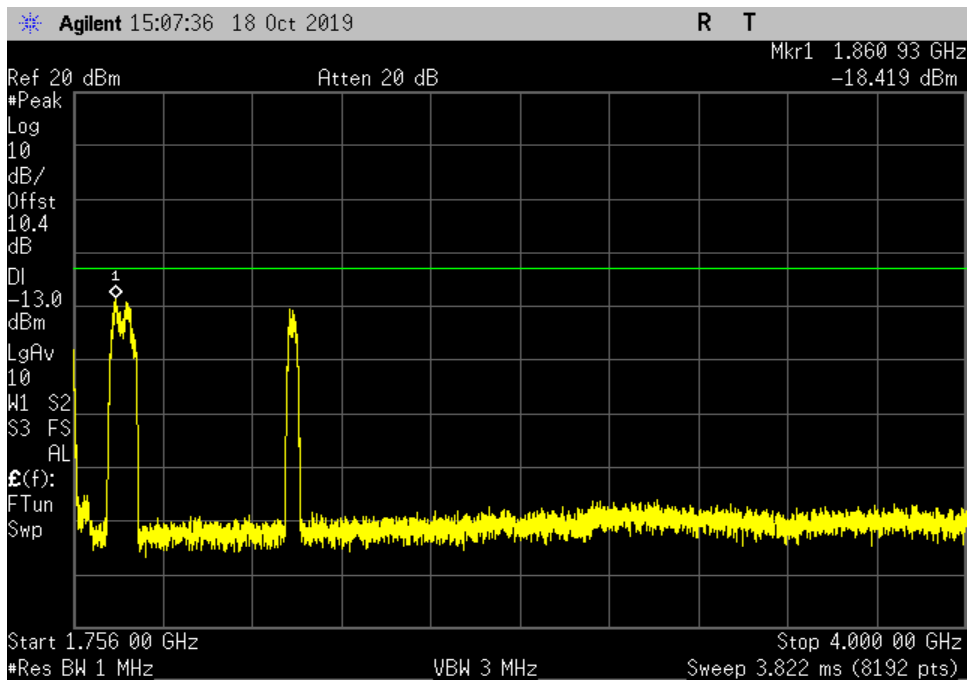
UL\_1710-1755\_AWGN\_30-1709MHz\_HC



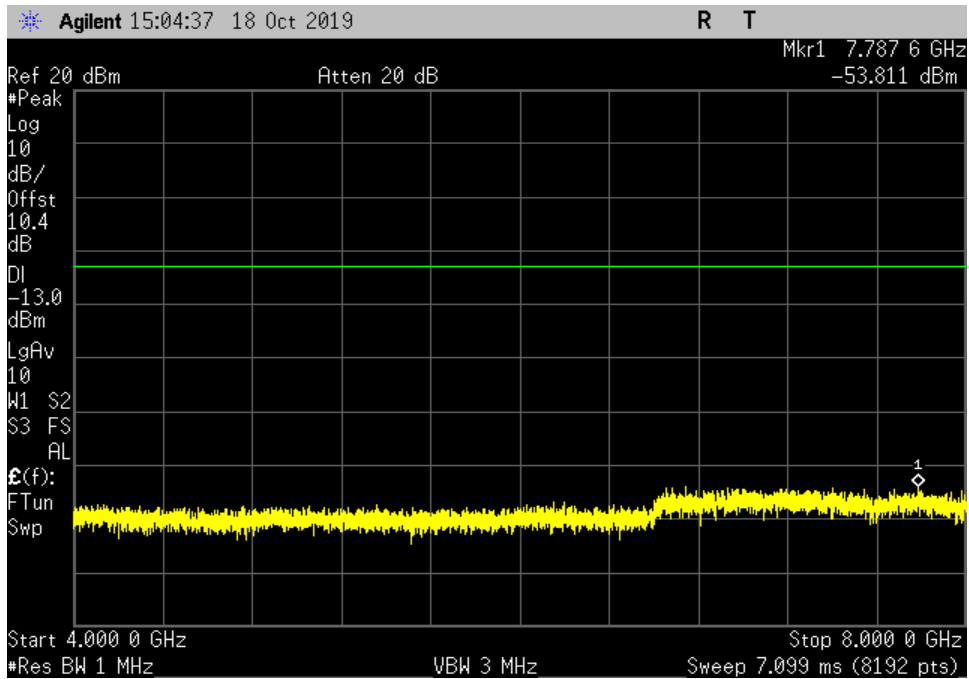
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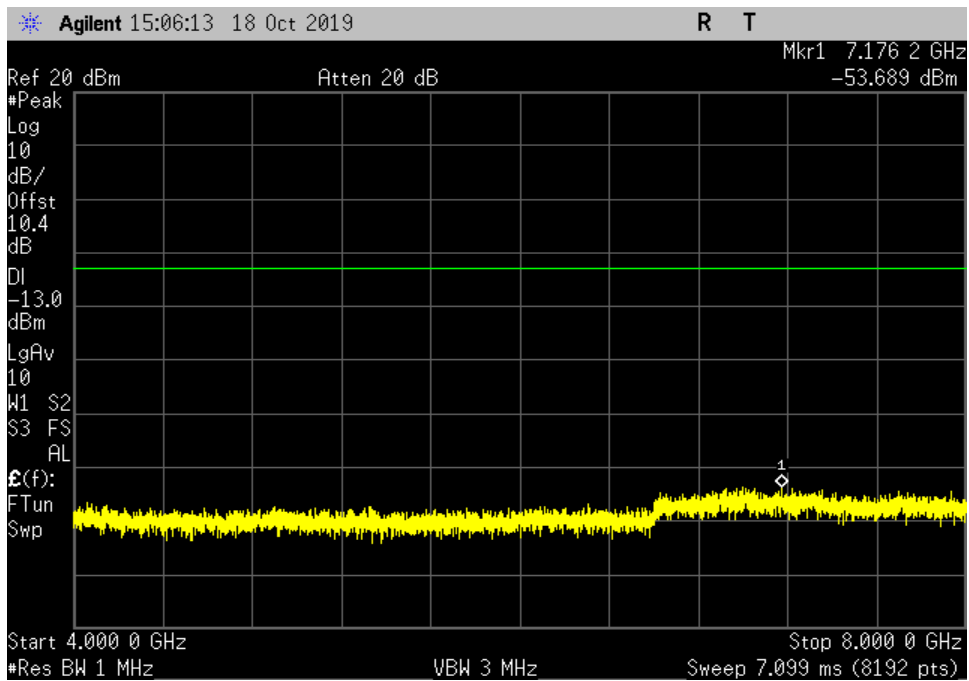
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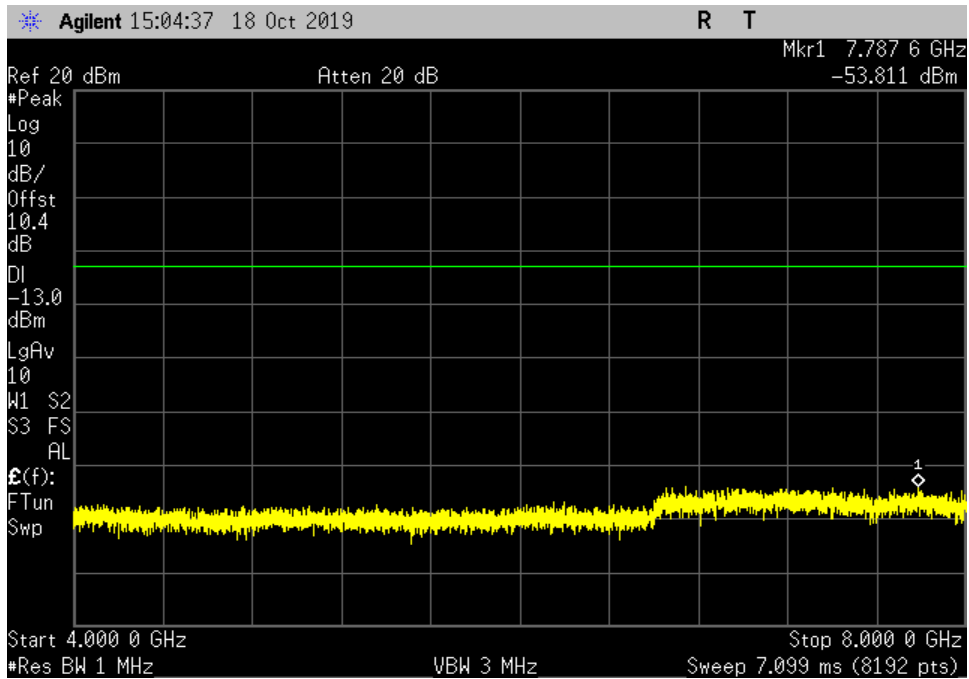
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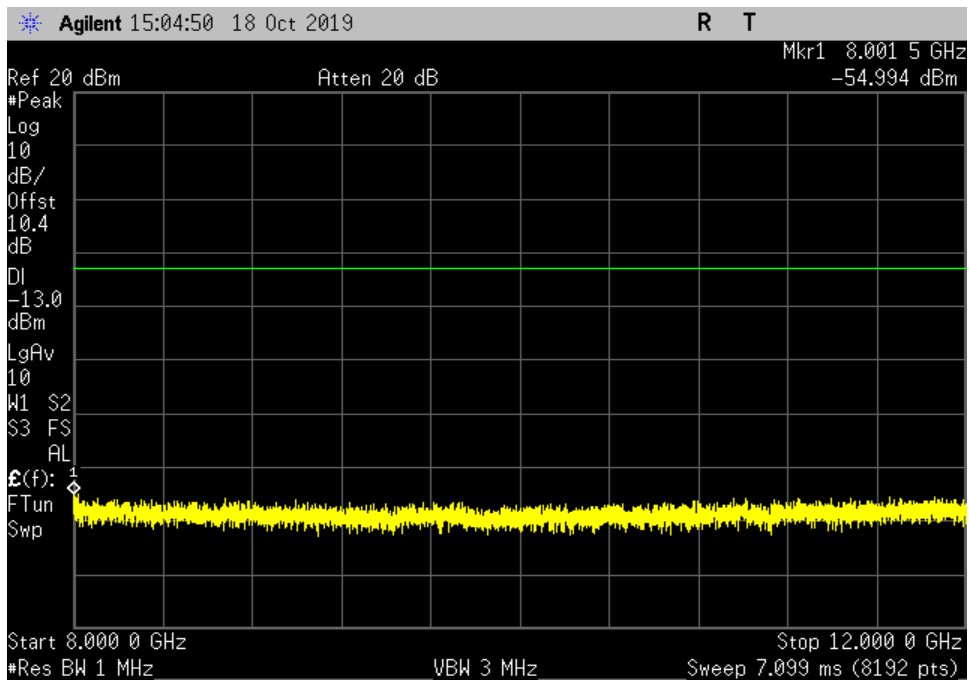
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UL\_1710-1755\_AWGN\_4000- 8000MHz\_MC

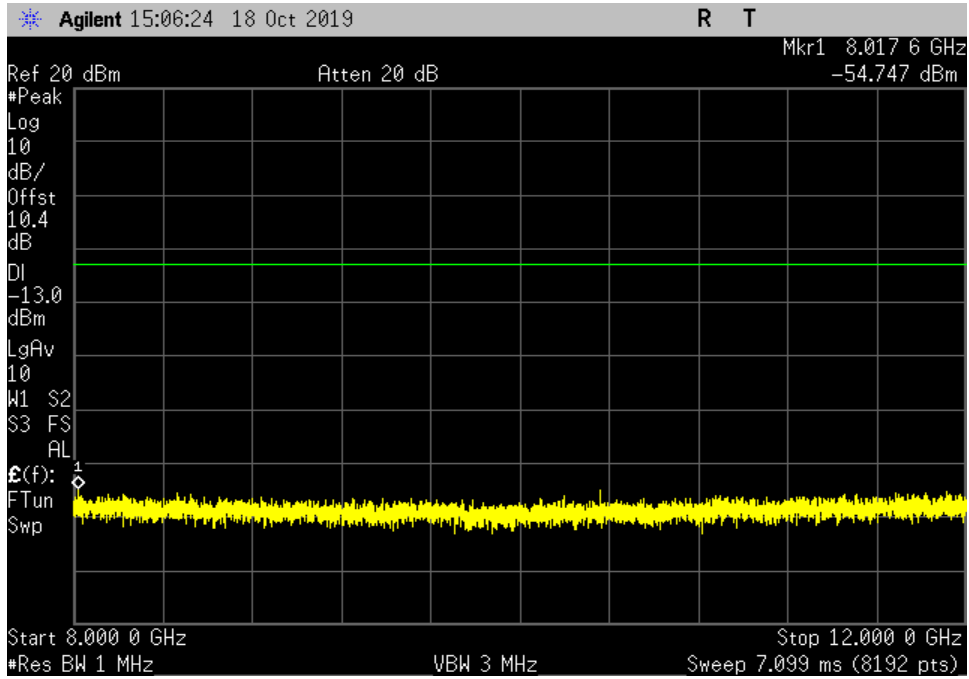


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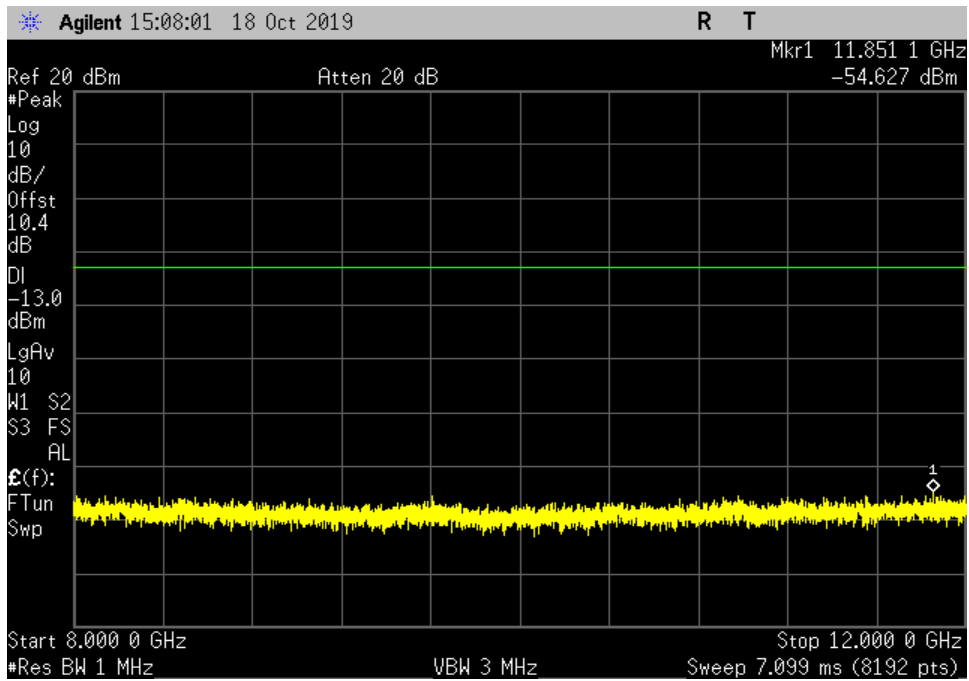


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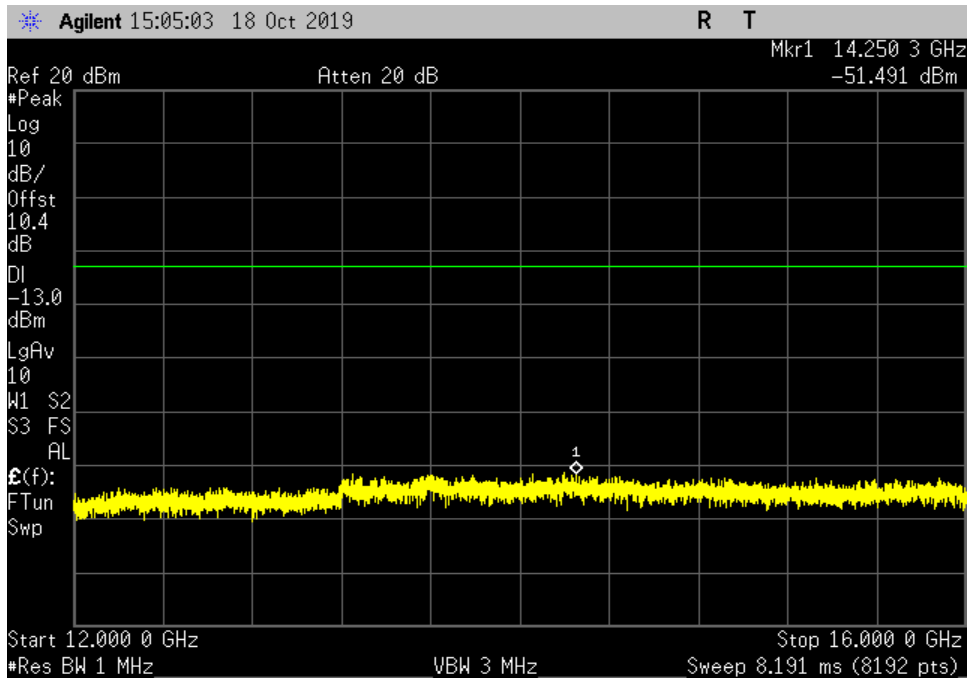




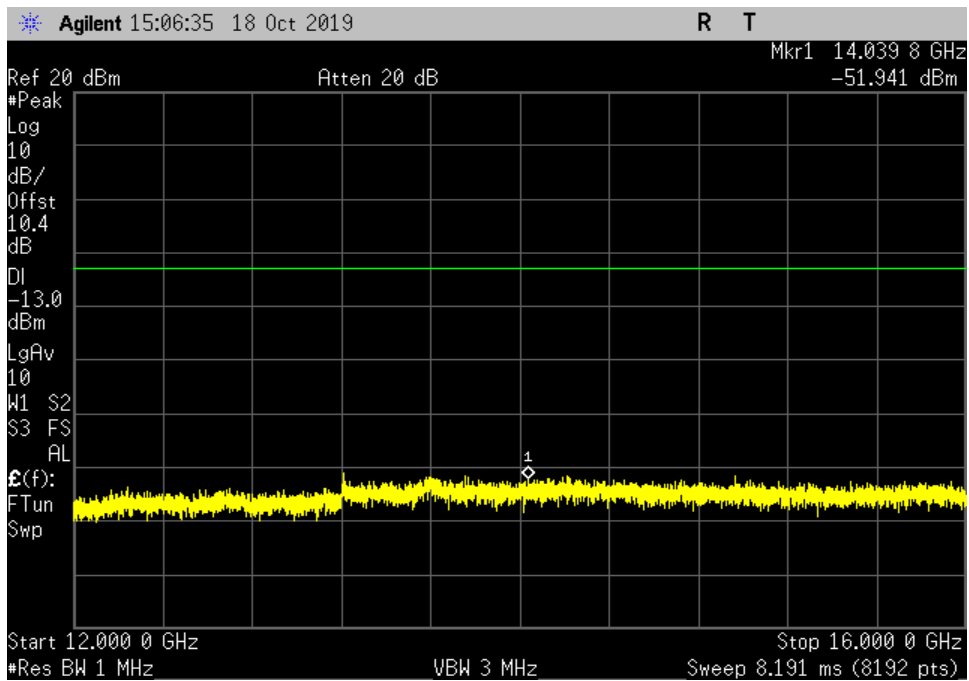
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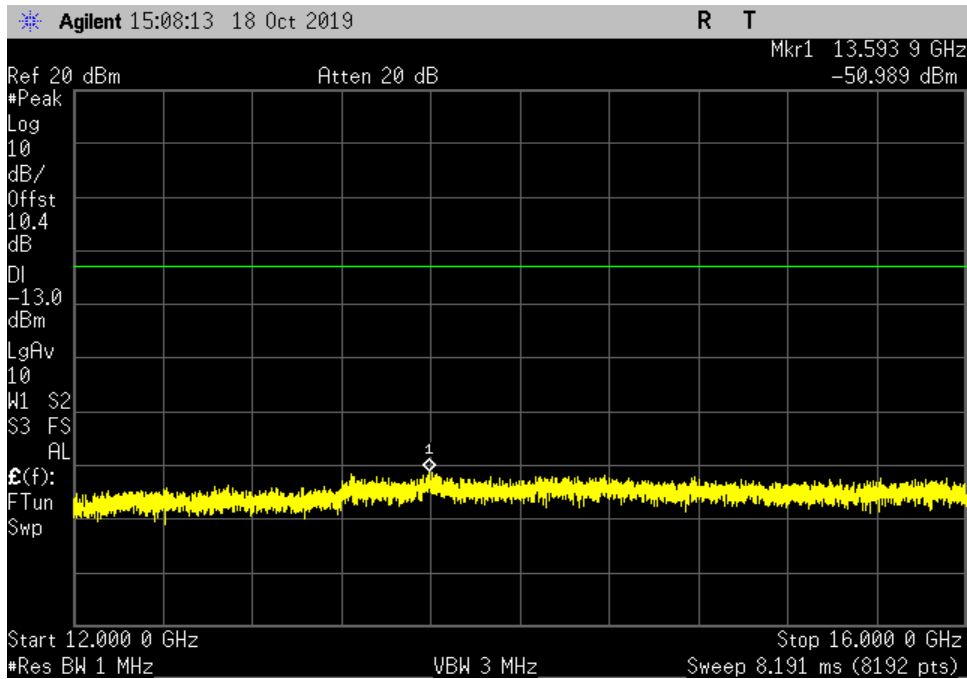
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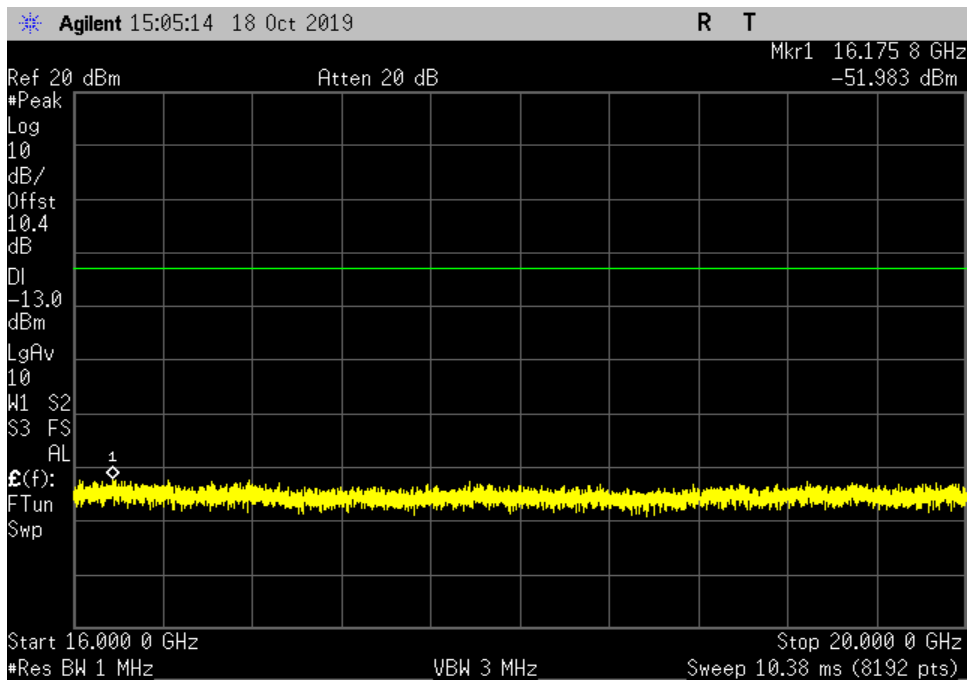
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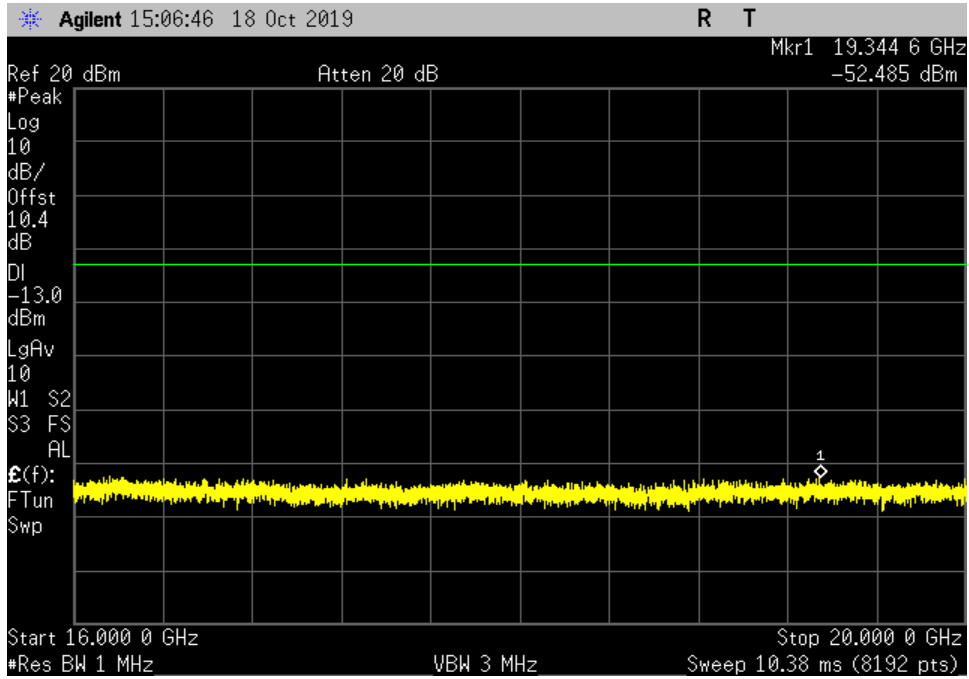
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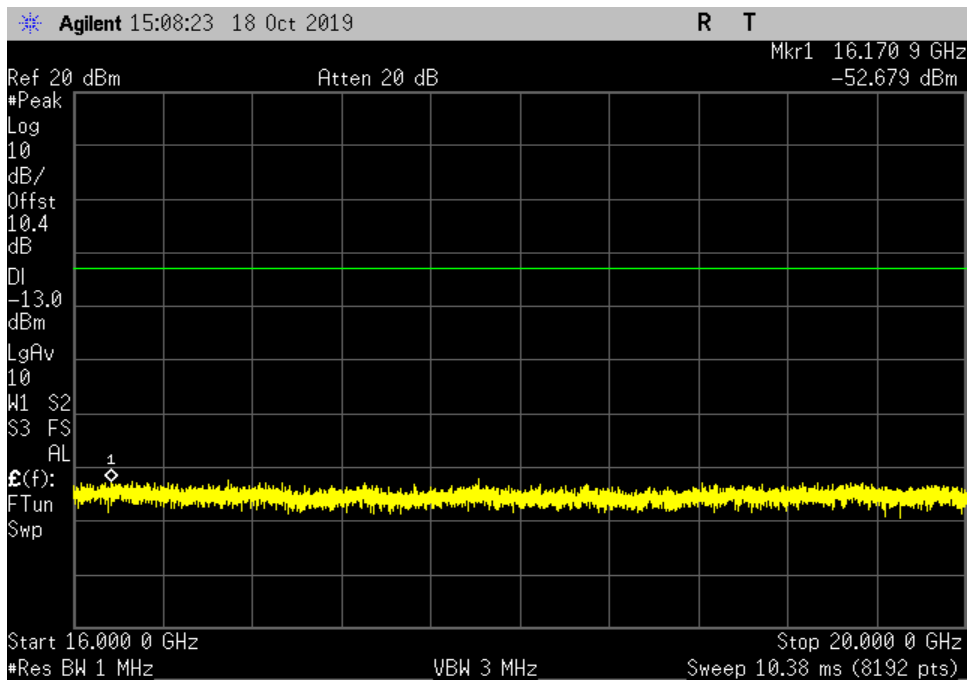
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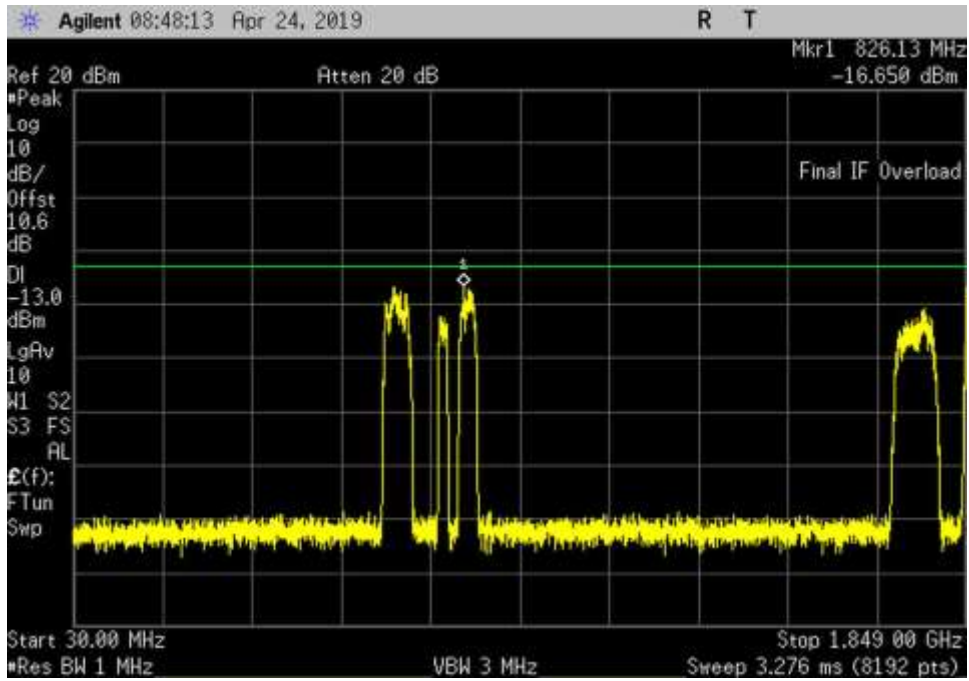
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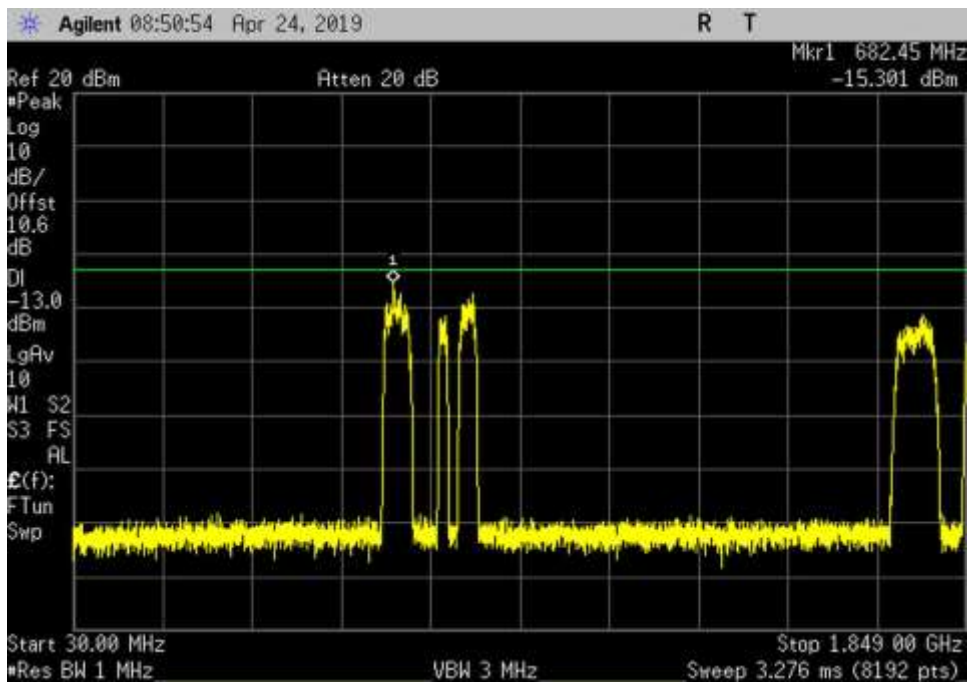
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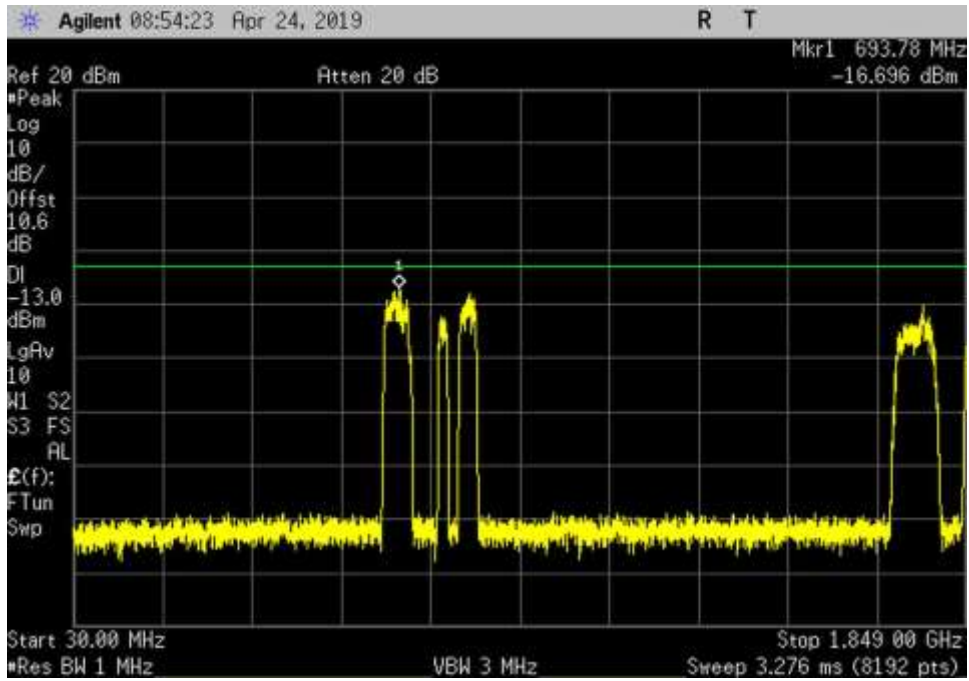
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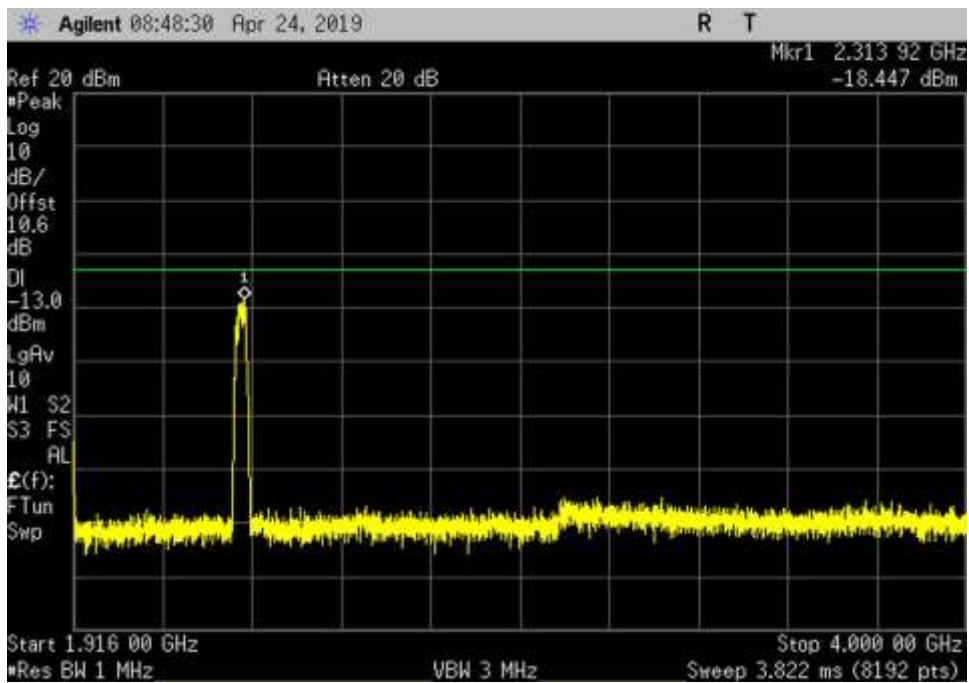
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UL\_1850-1915\_AWGN\_30-1849MHz\_MC

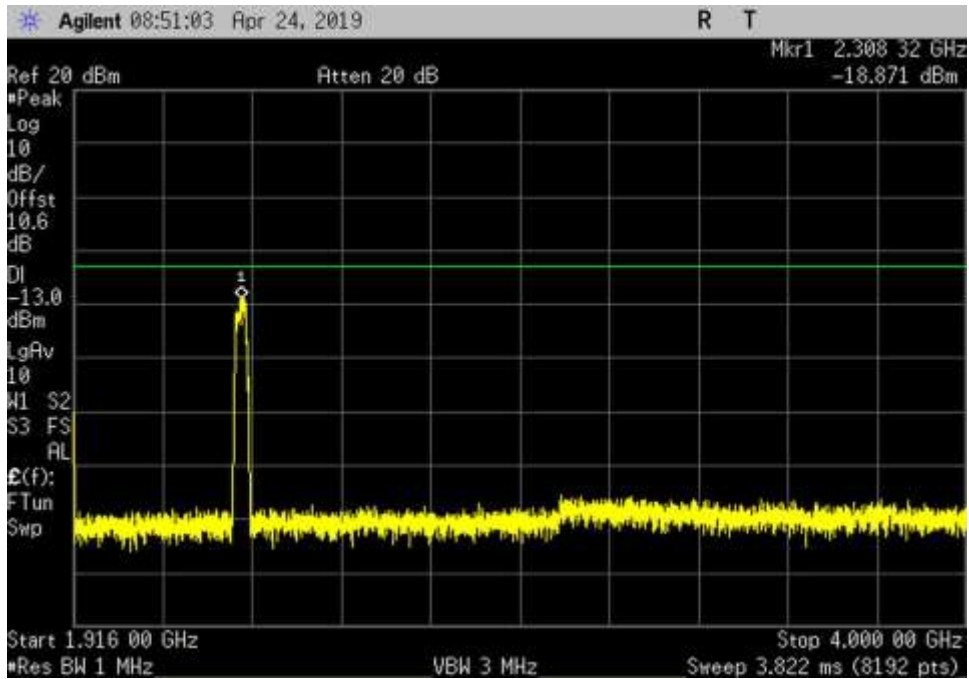


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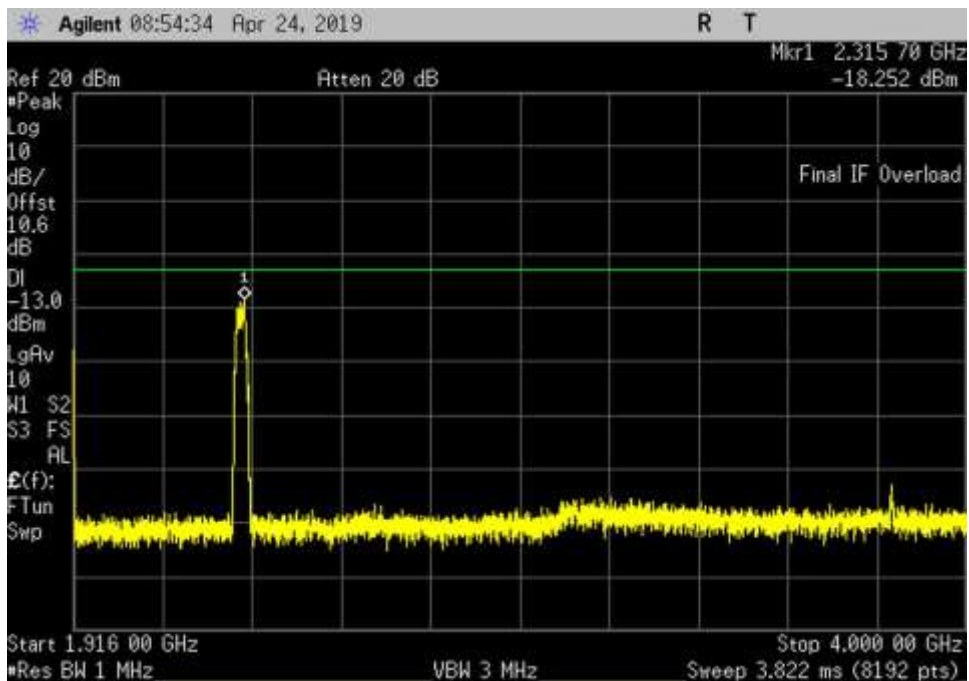


UL\_1850-1915\_AWGN\_1916- 4000MHz\_LC

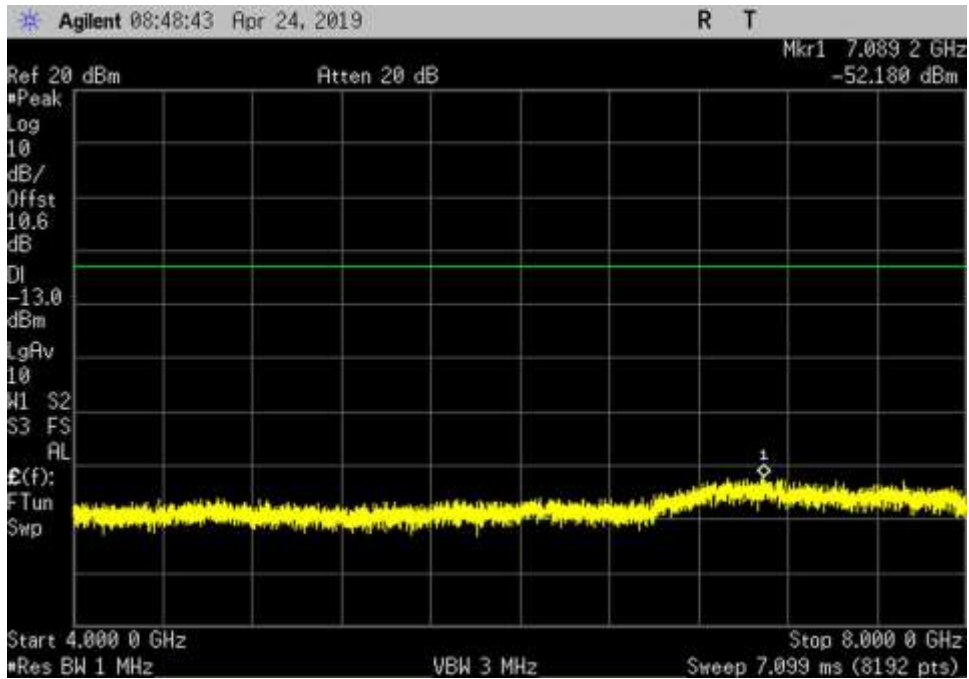




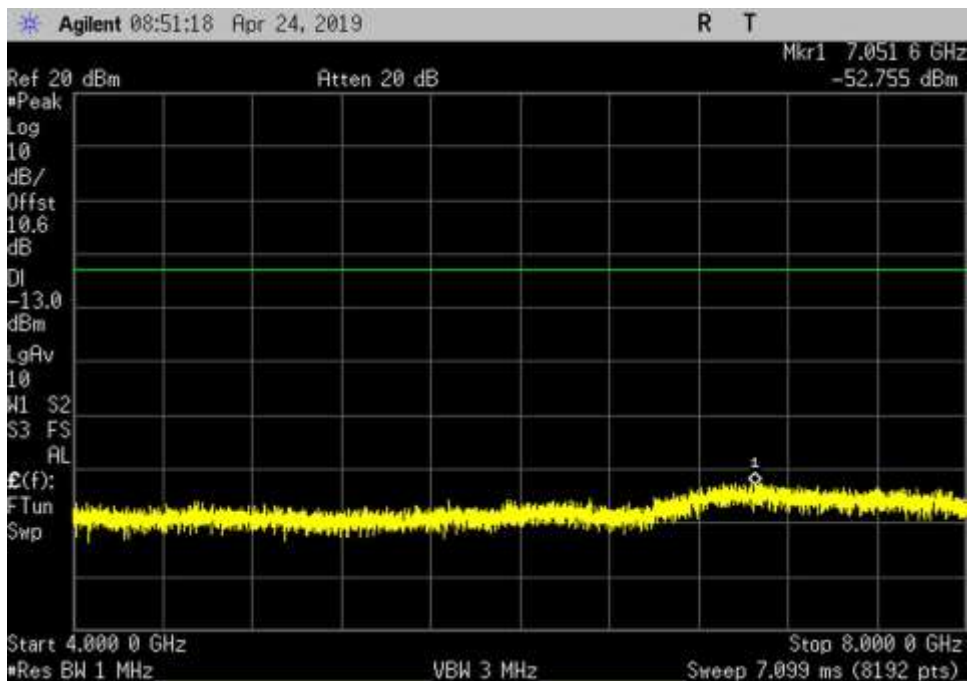
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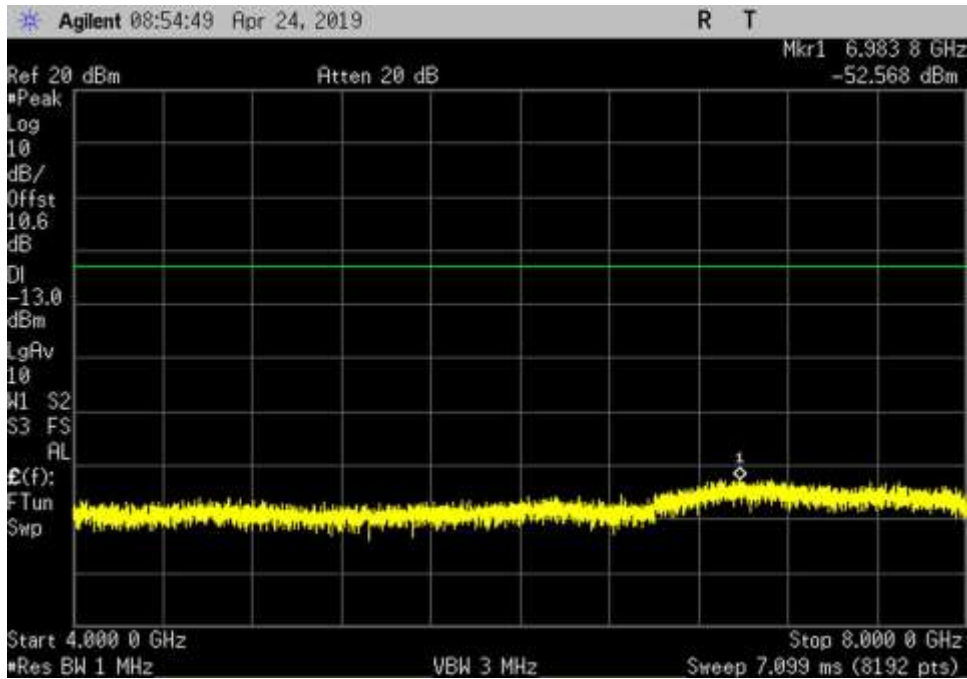
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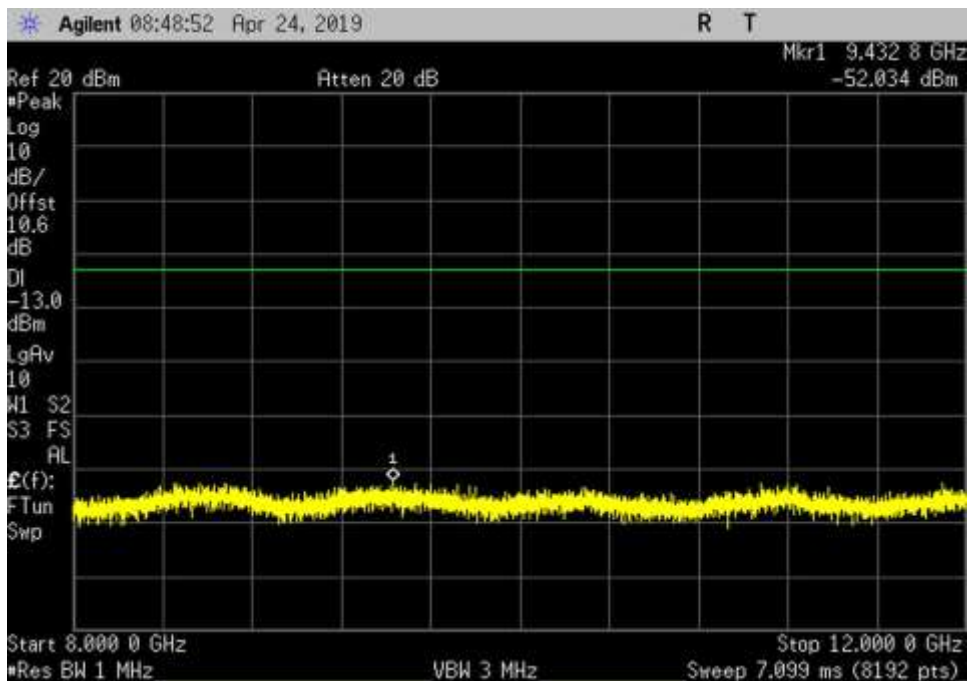
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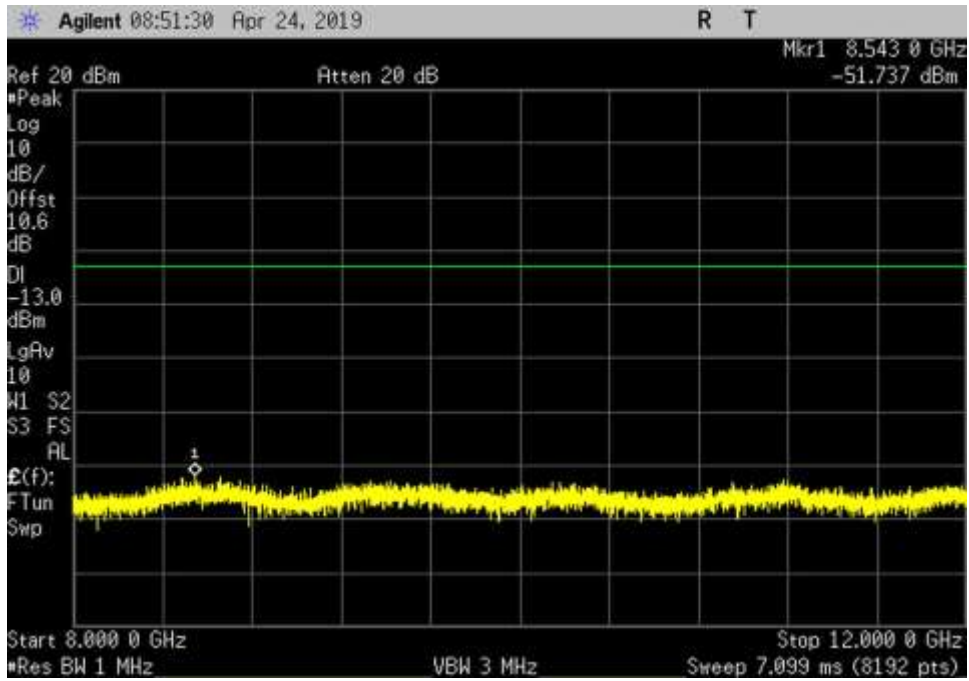
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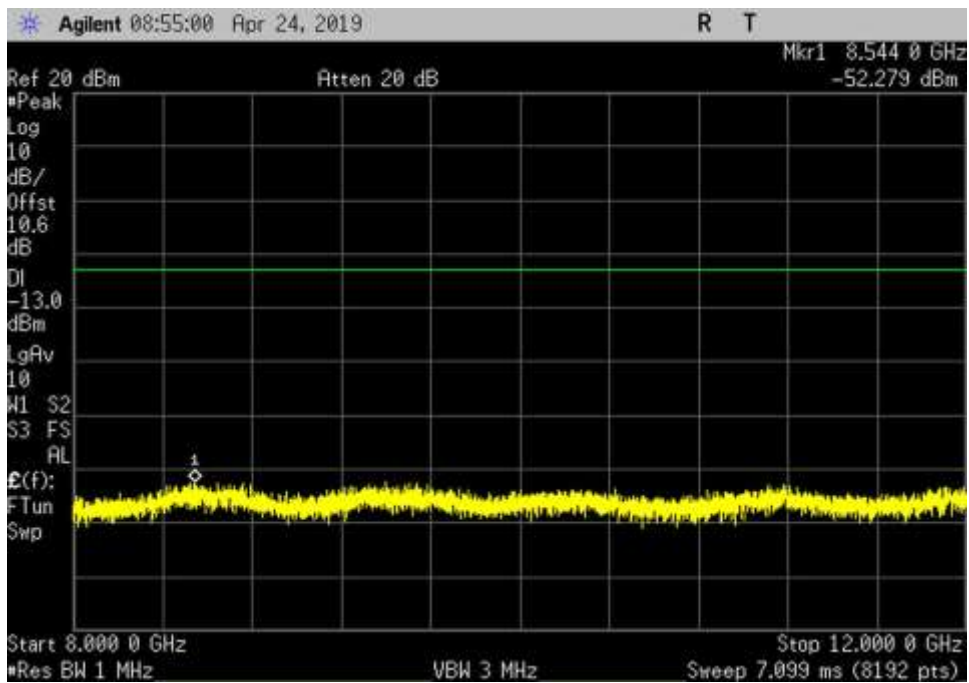
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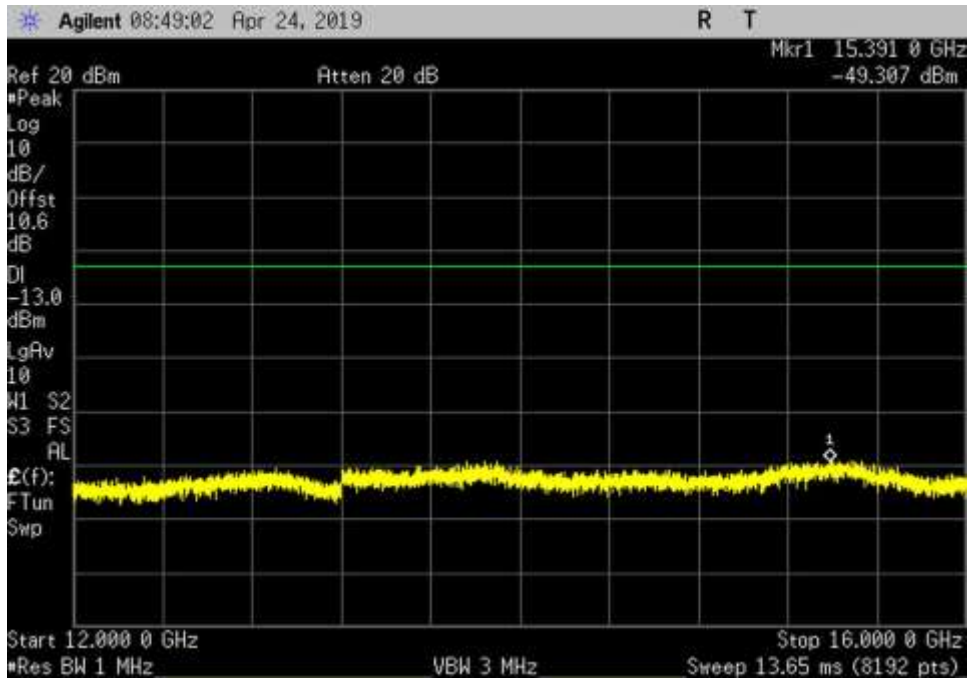
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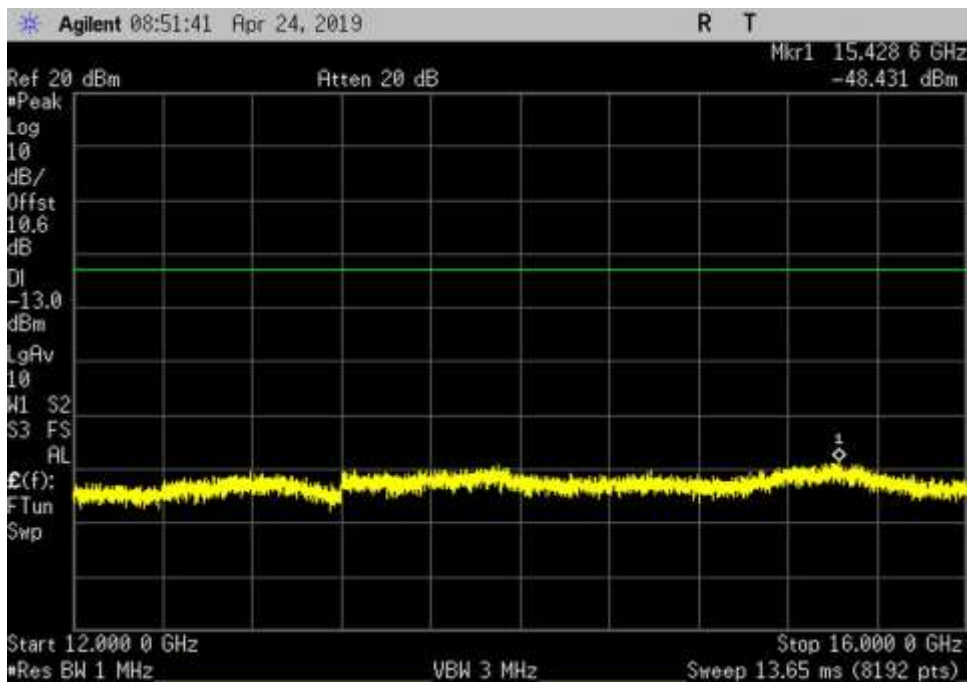
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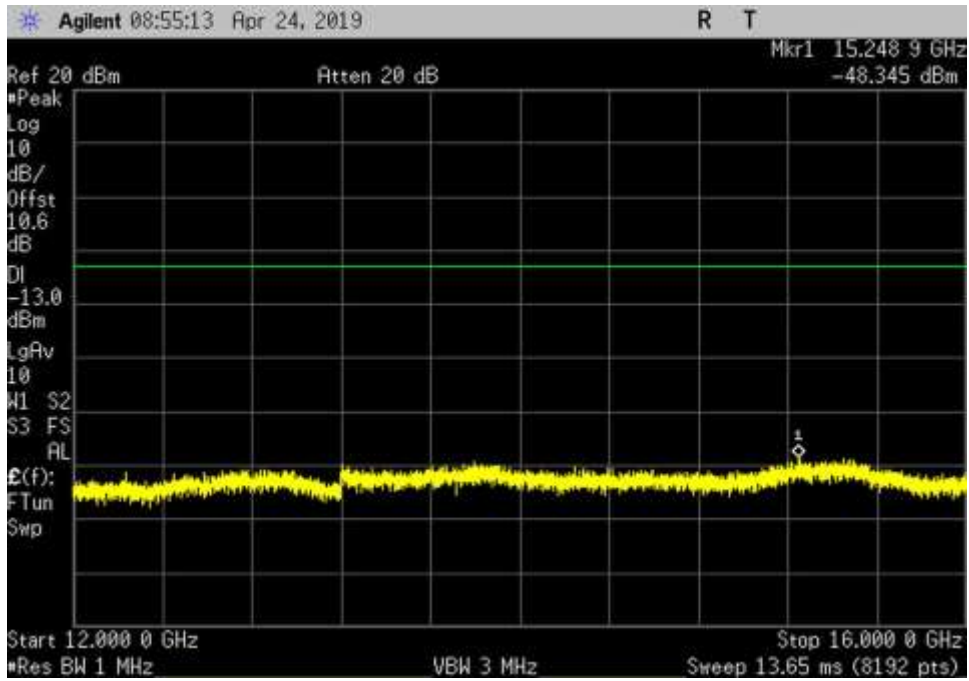
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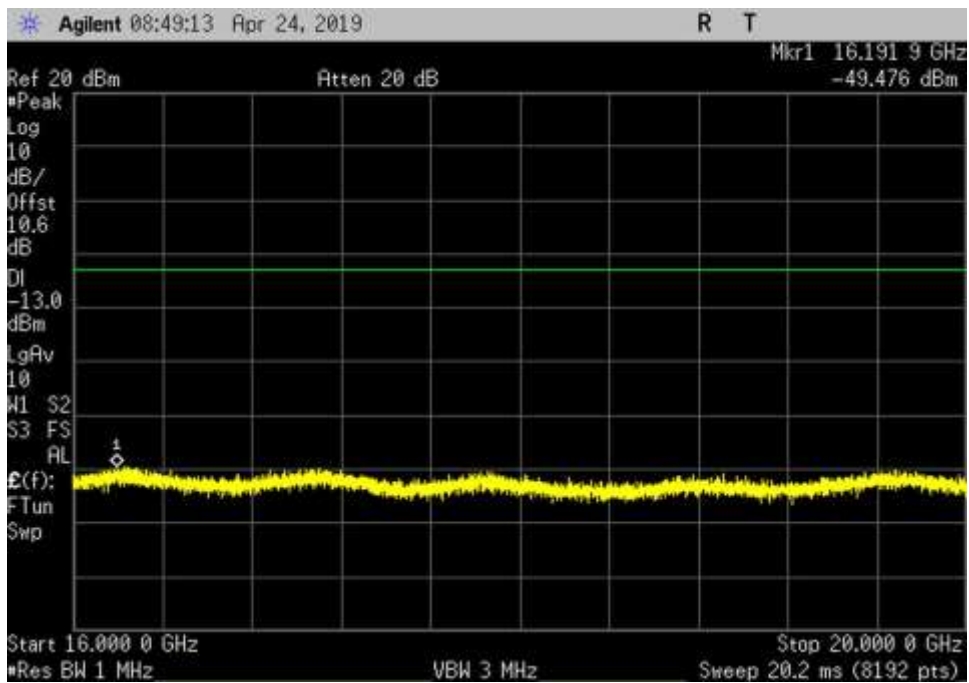
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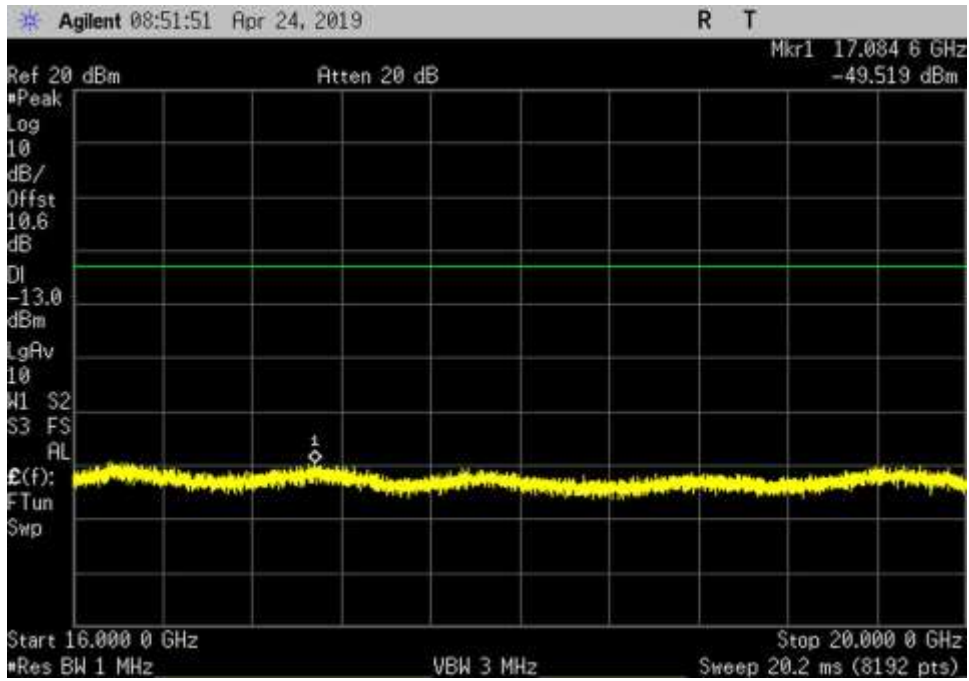


UL\_1850-1915\_AWGN\_12000-16000MHz\_HC

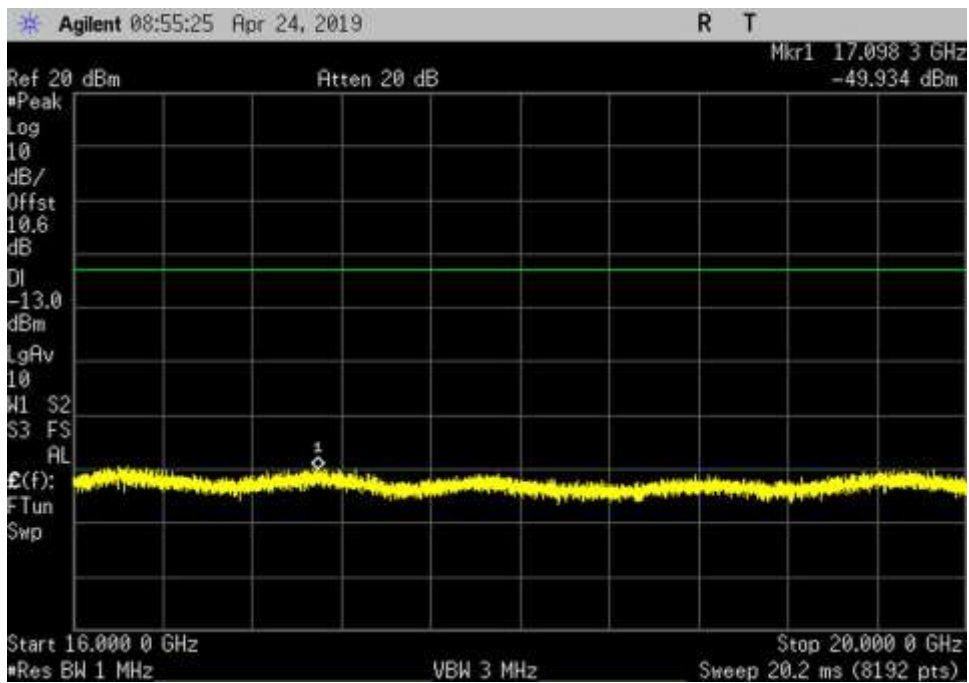


UL\_1850-1915\_AWGN\_16000-20000MHz\_LC

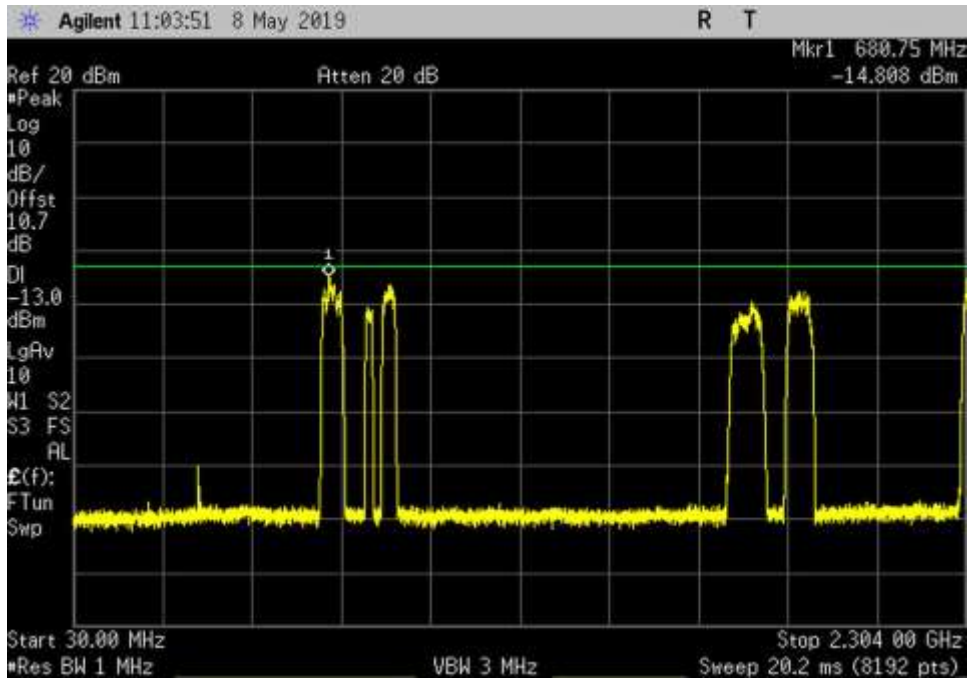




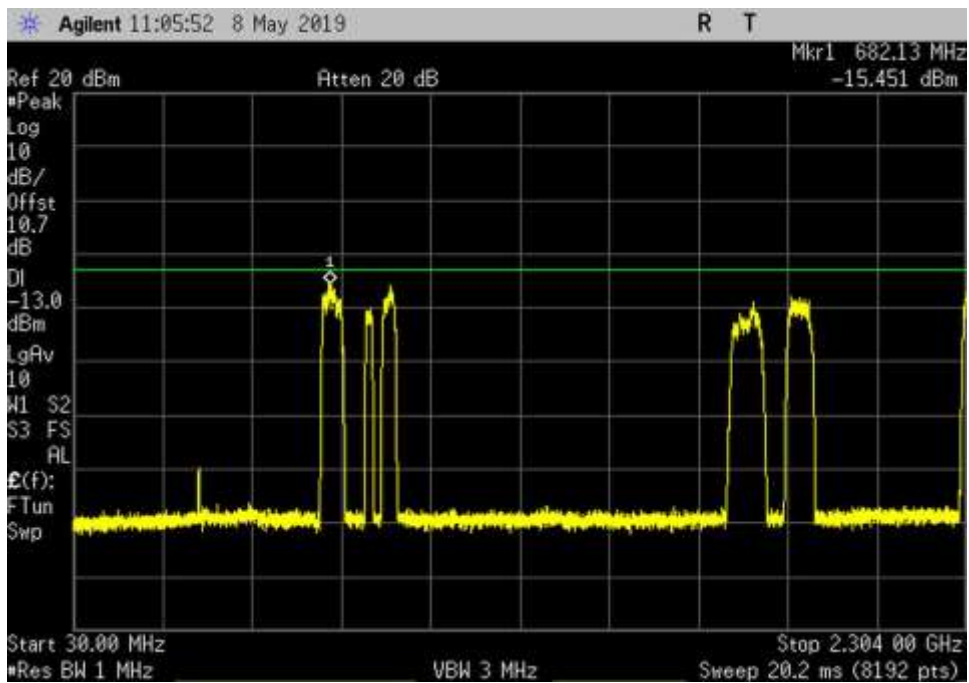
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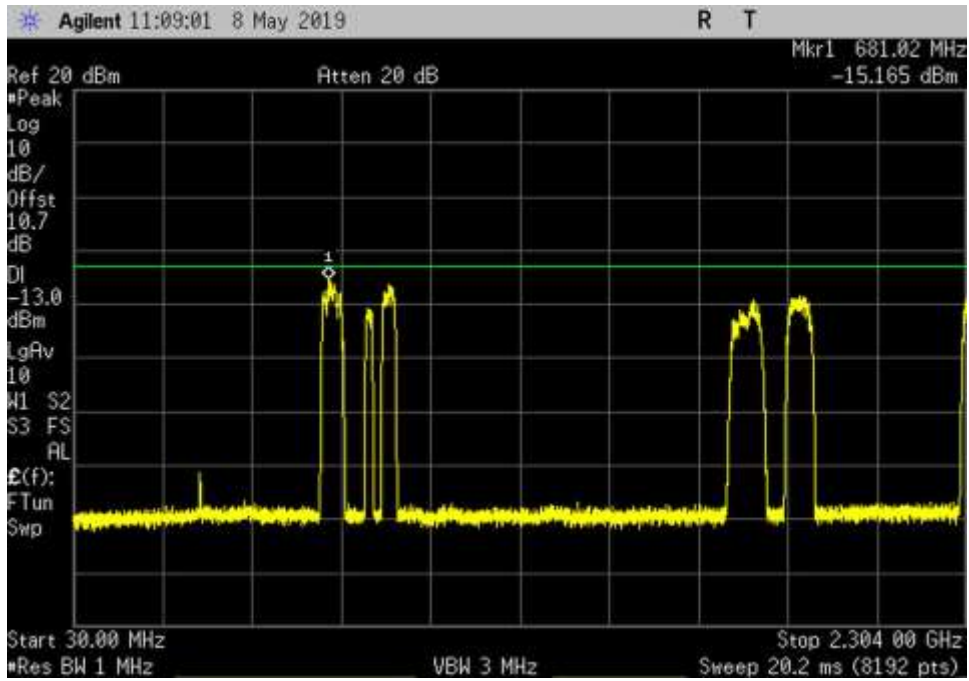
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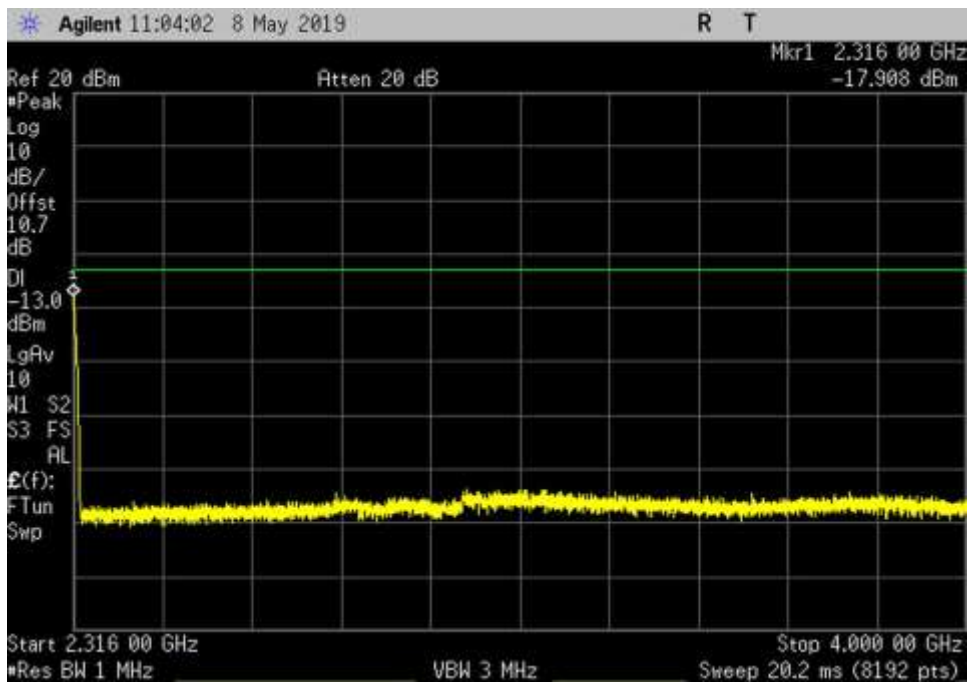
UL\_2305-2315\_AWGN\_30-2304MHz\_LC



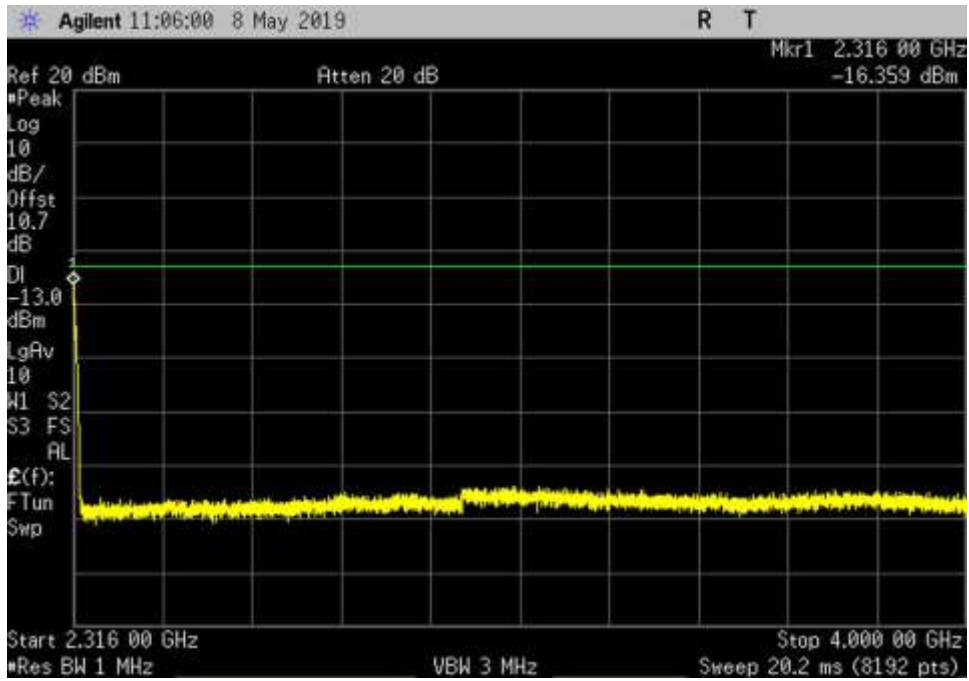
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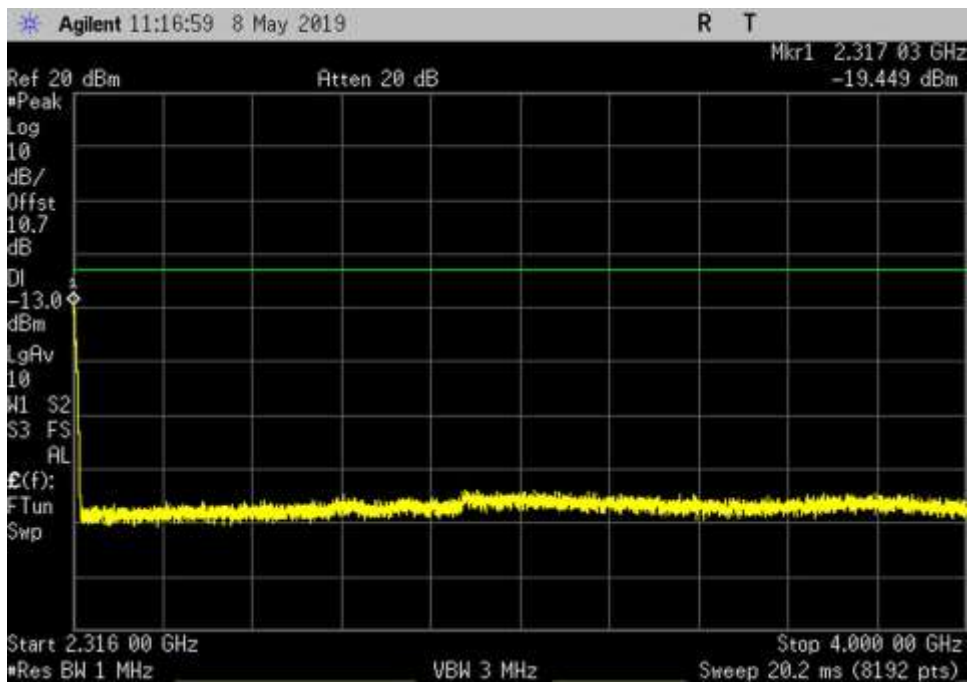
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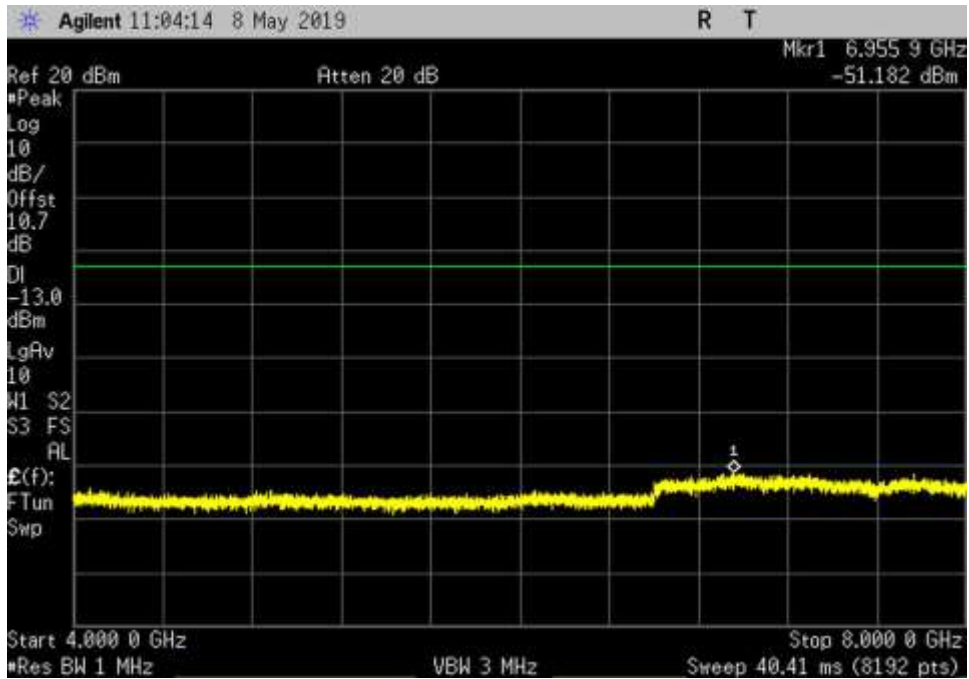
UL\_2305-2315\_AWGN\_2316- 4000MHz\_LC



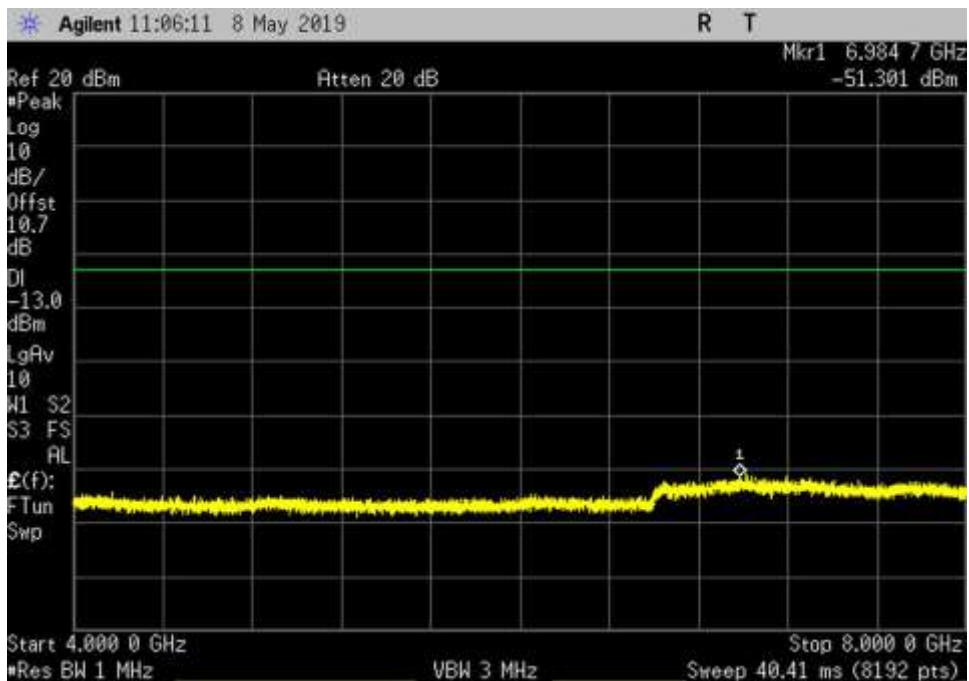
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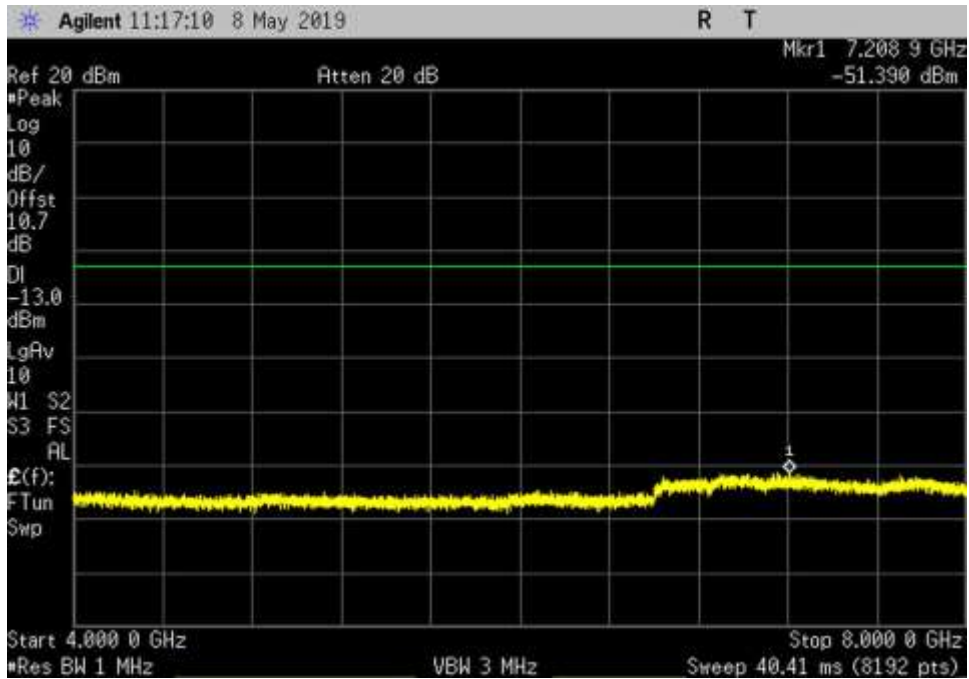
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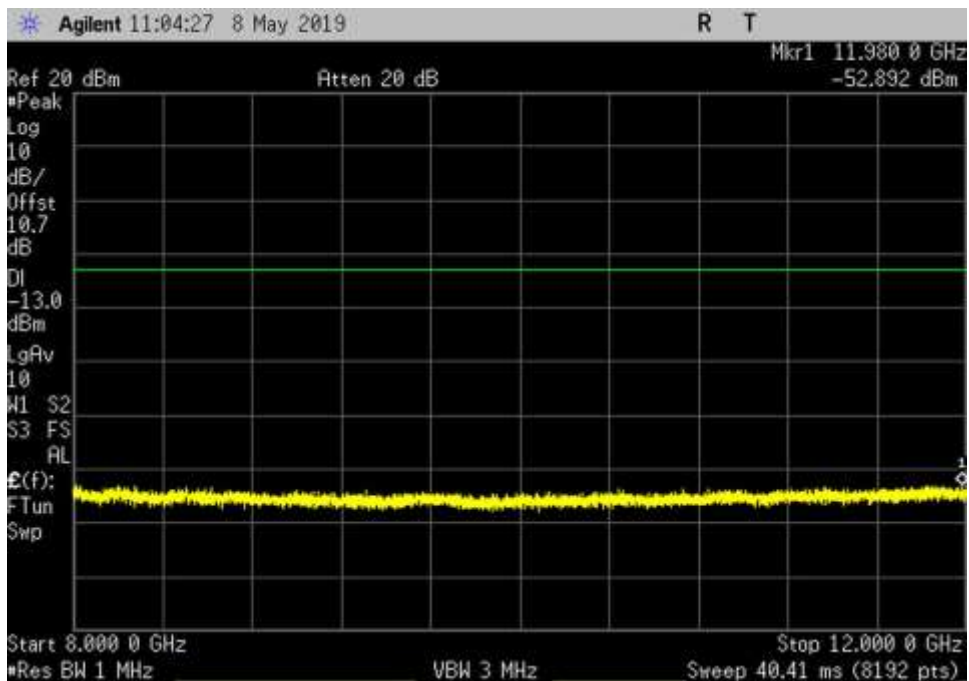
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UL\_2305-2315\_AWGN\_4000-8000MHz\_MC

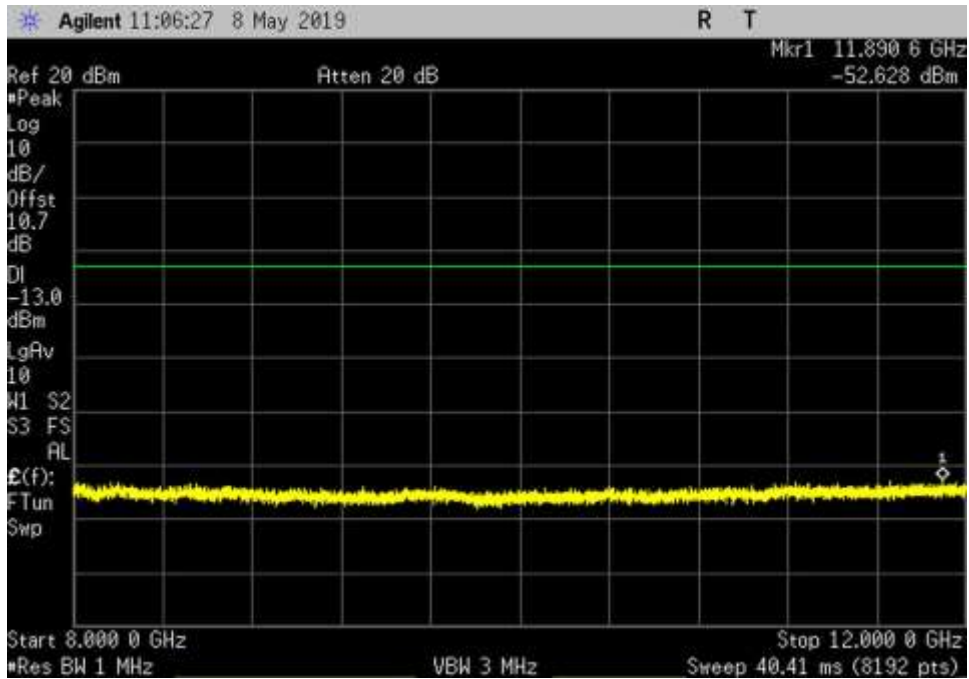


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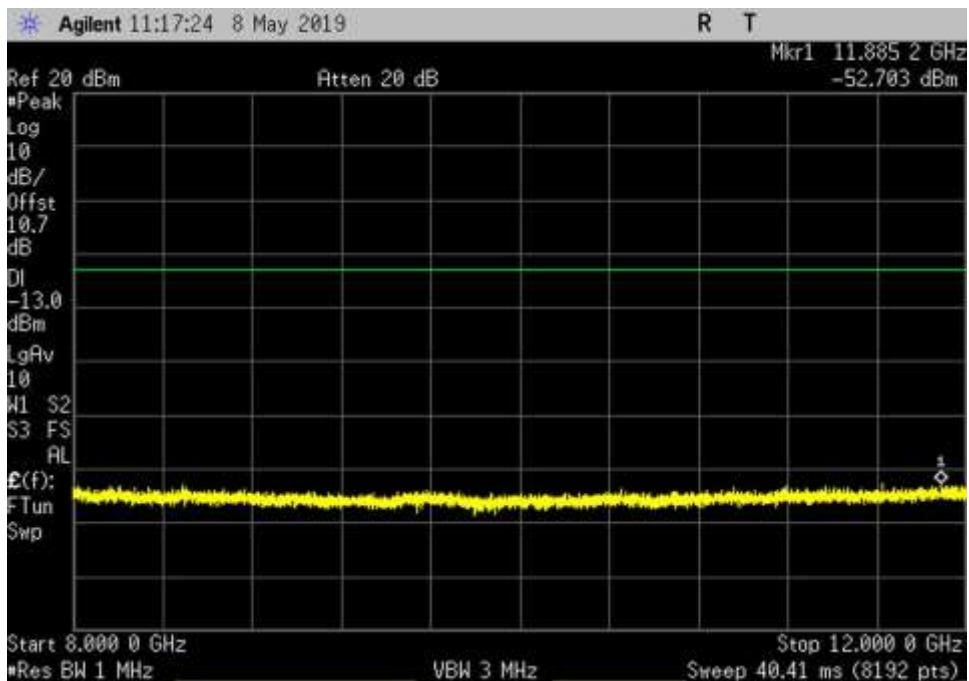


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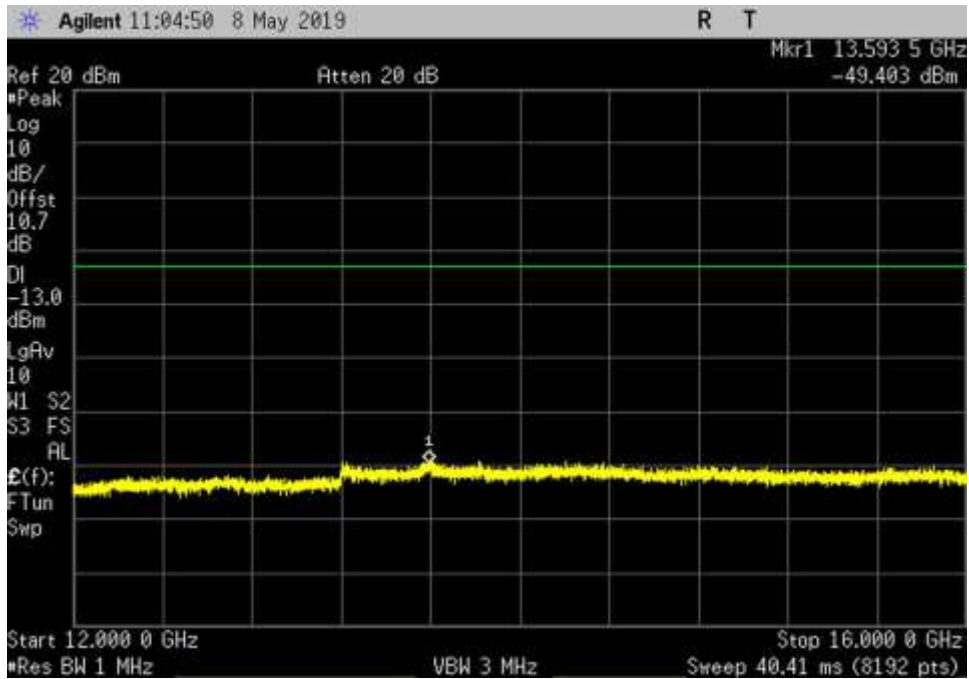




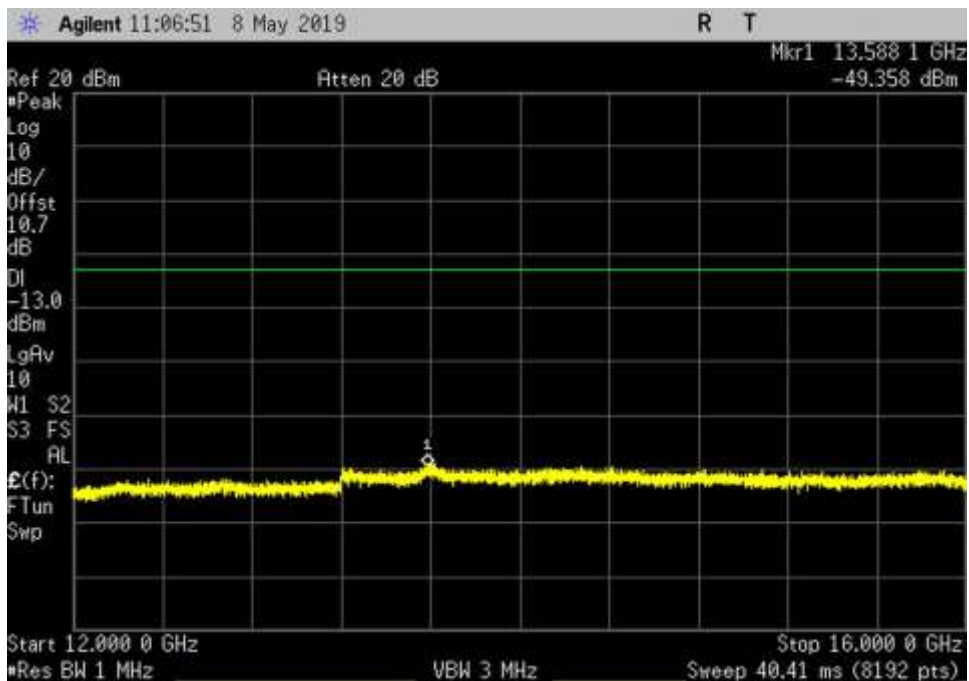
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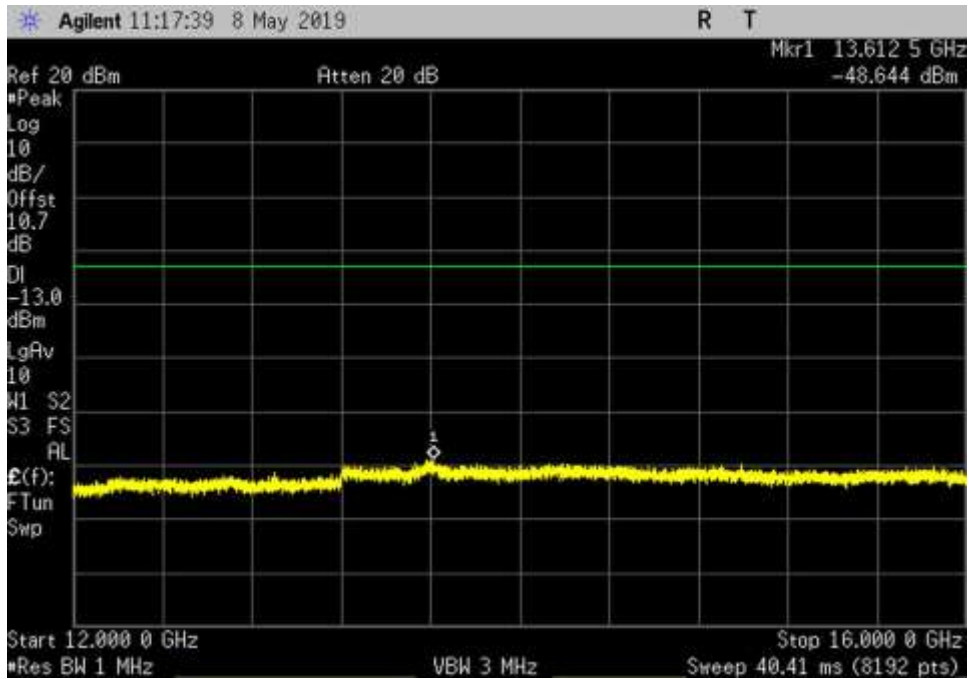
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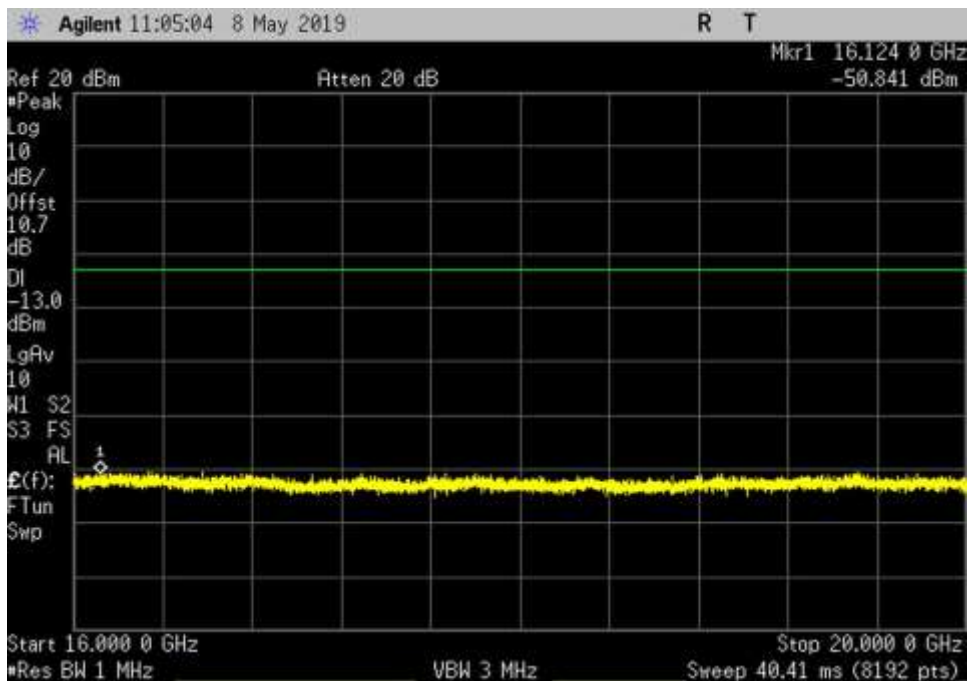
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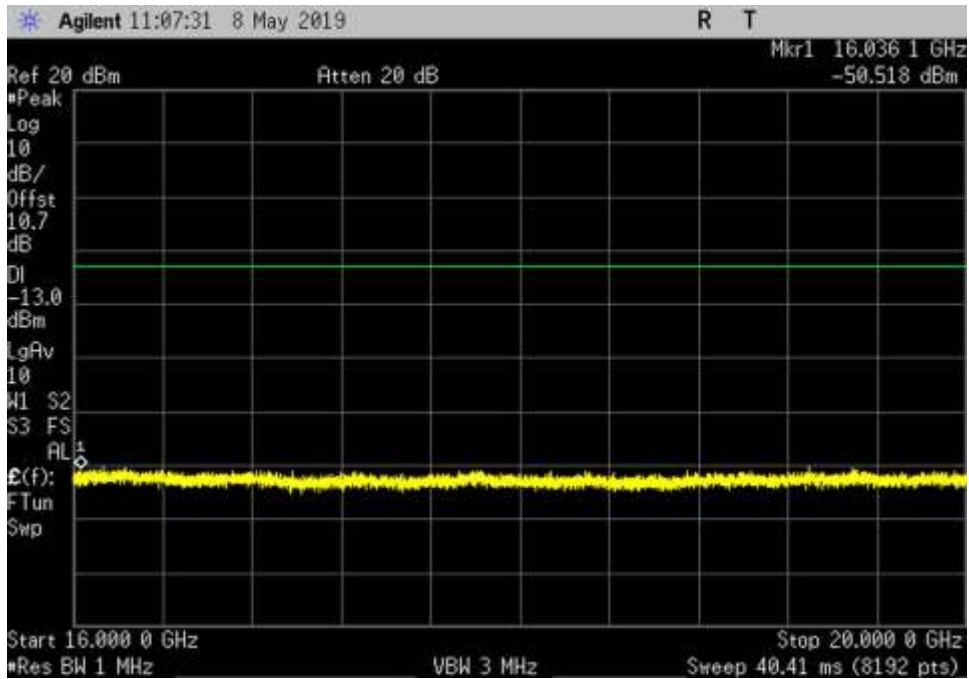
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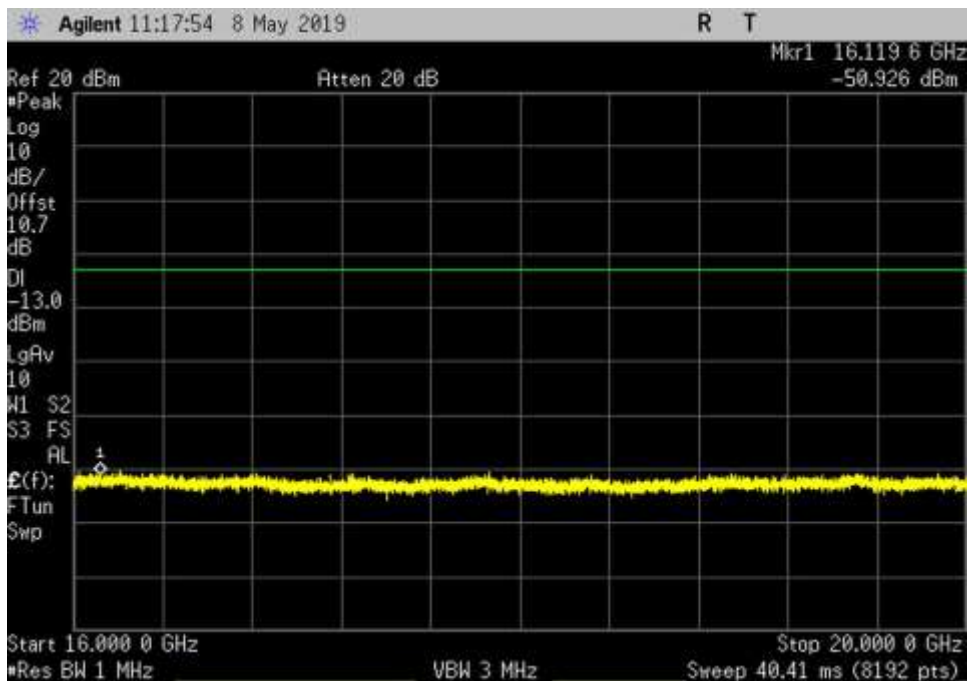
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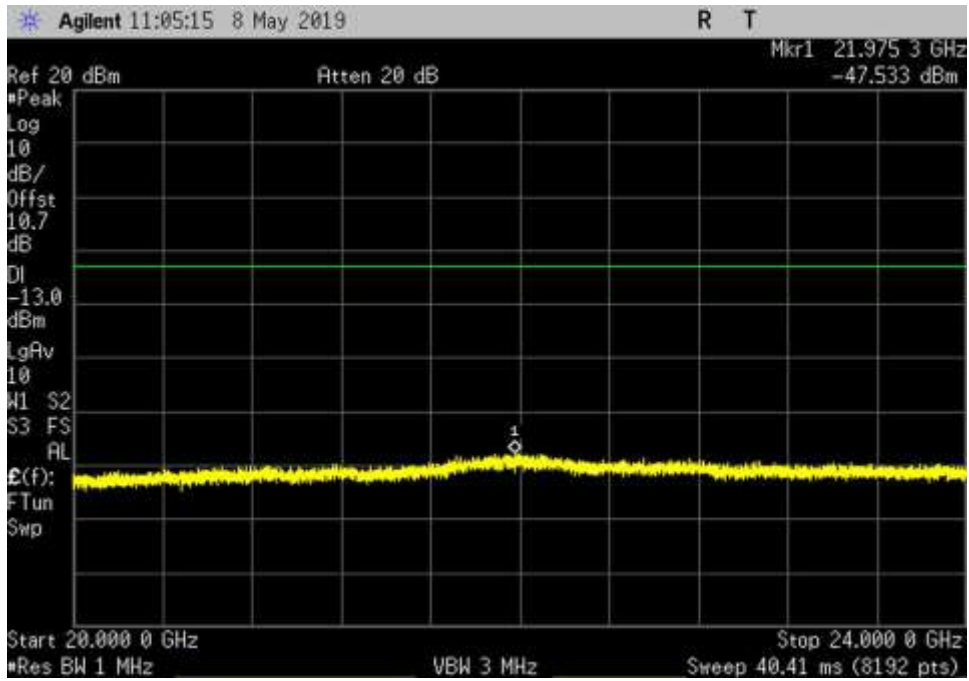
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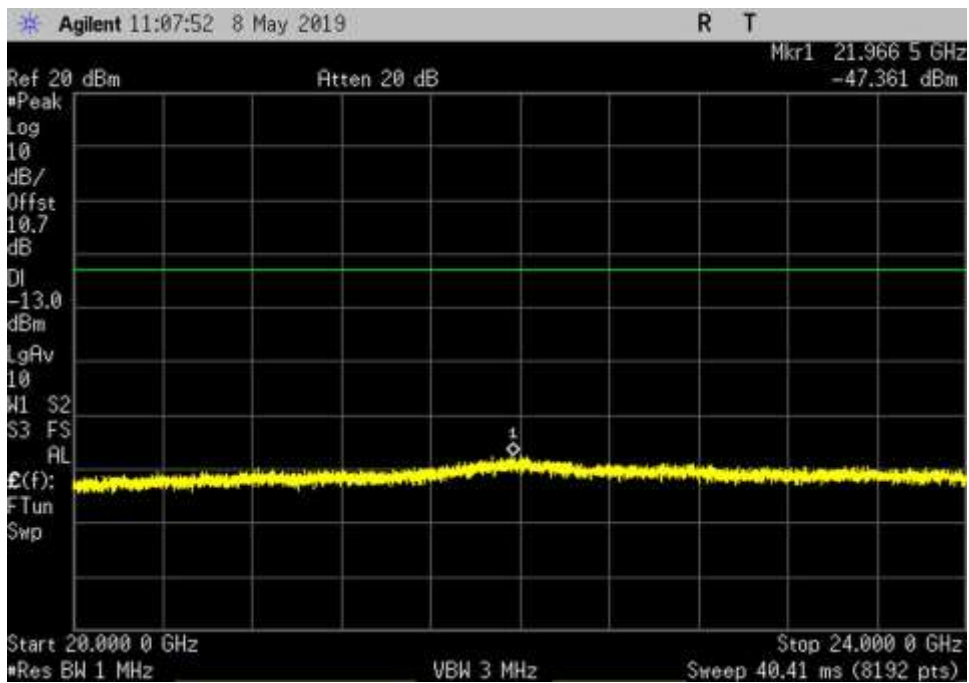
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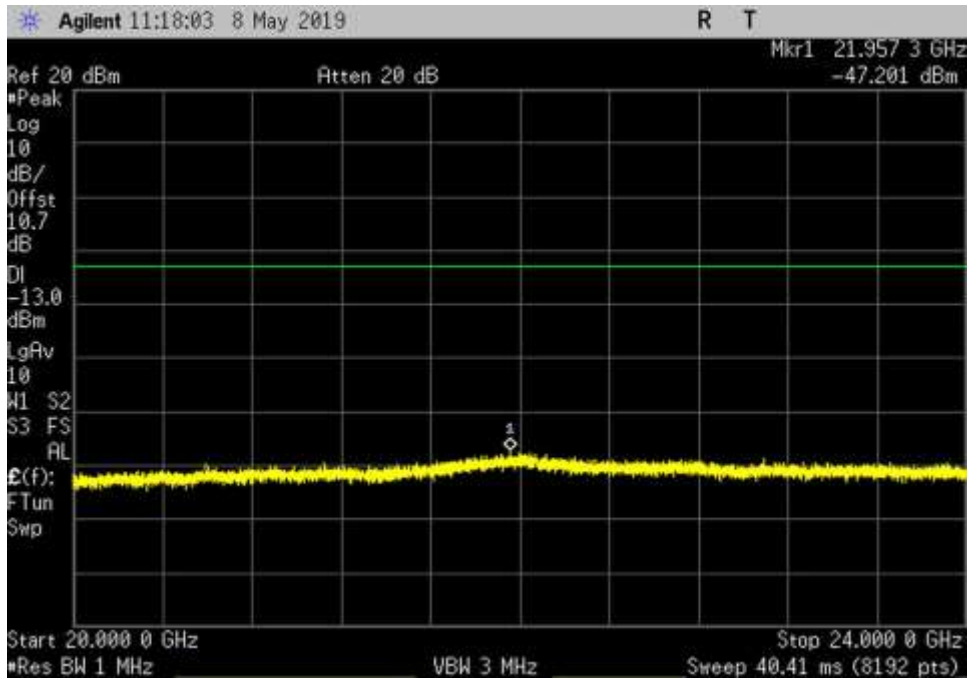
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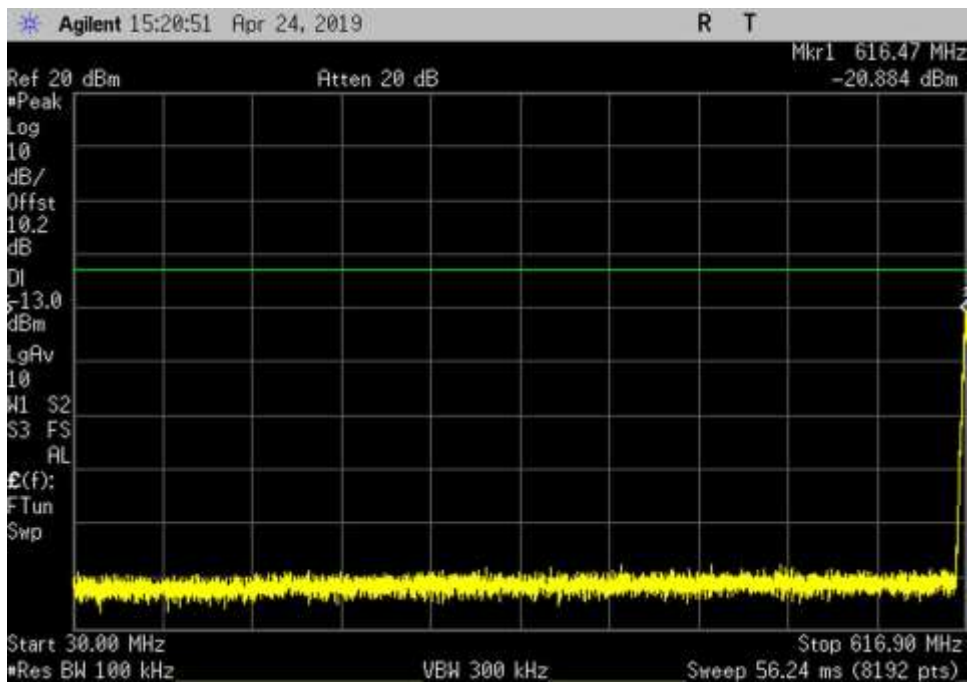
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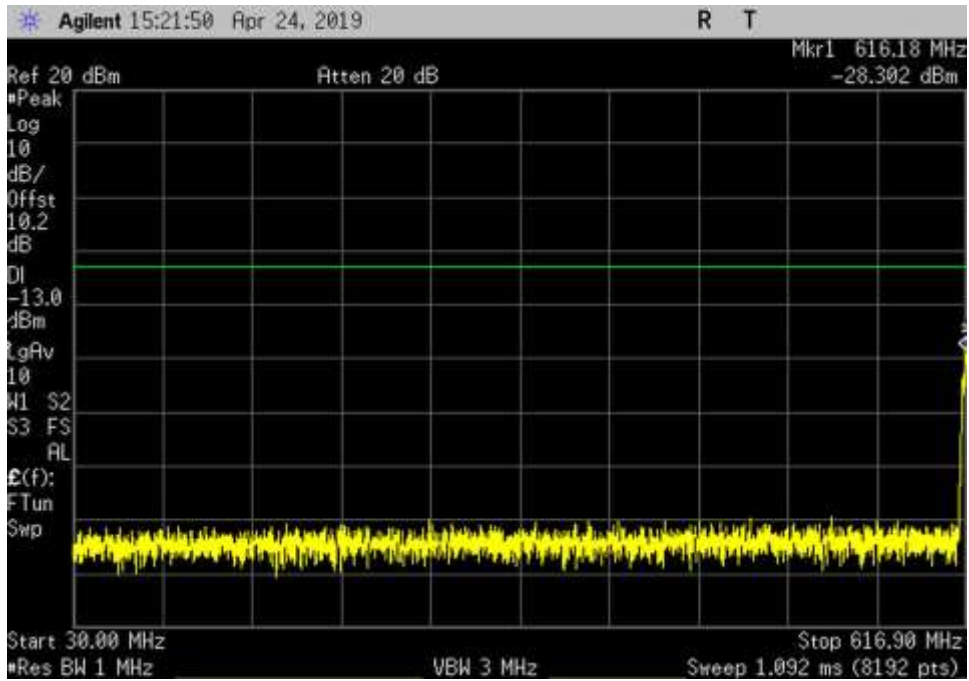


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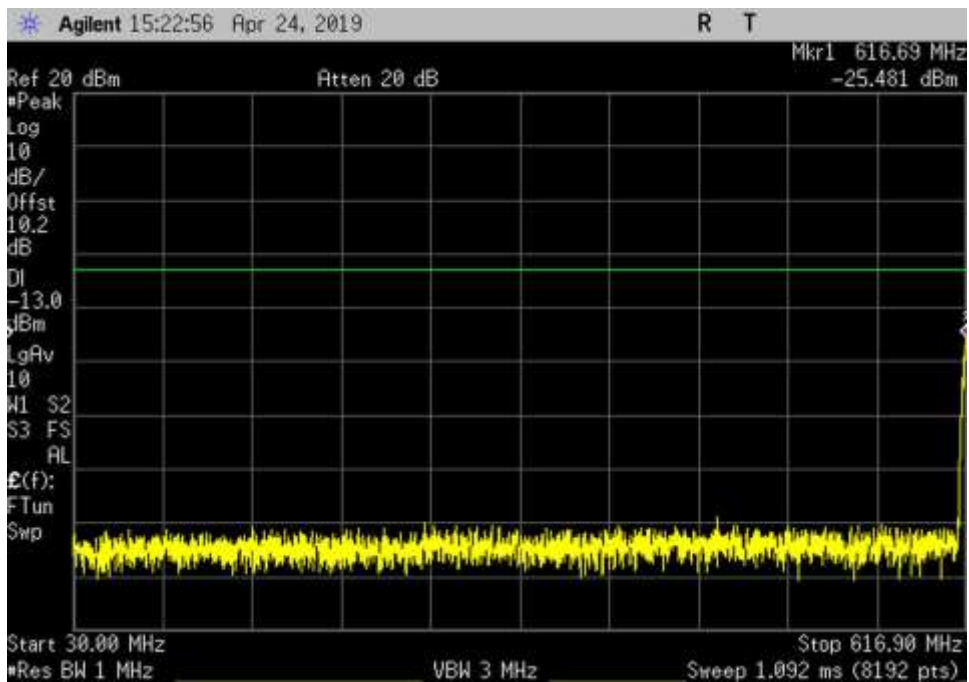


DL\_617-698\_AWGN\_30-616.9MHz\_LC

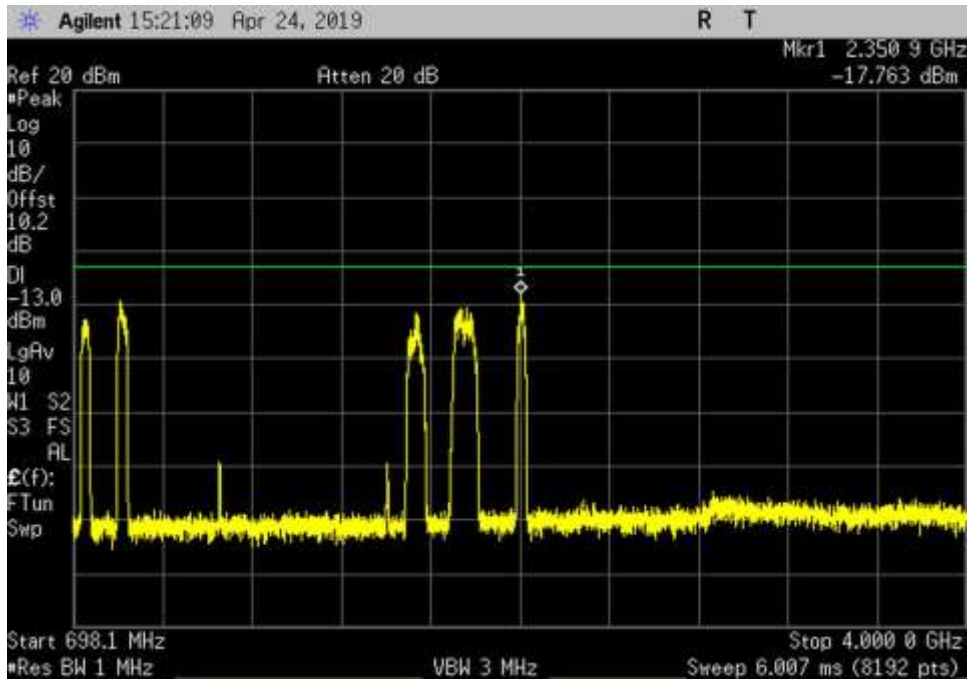




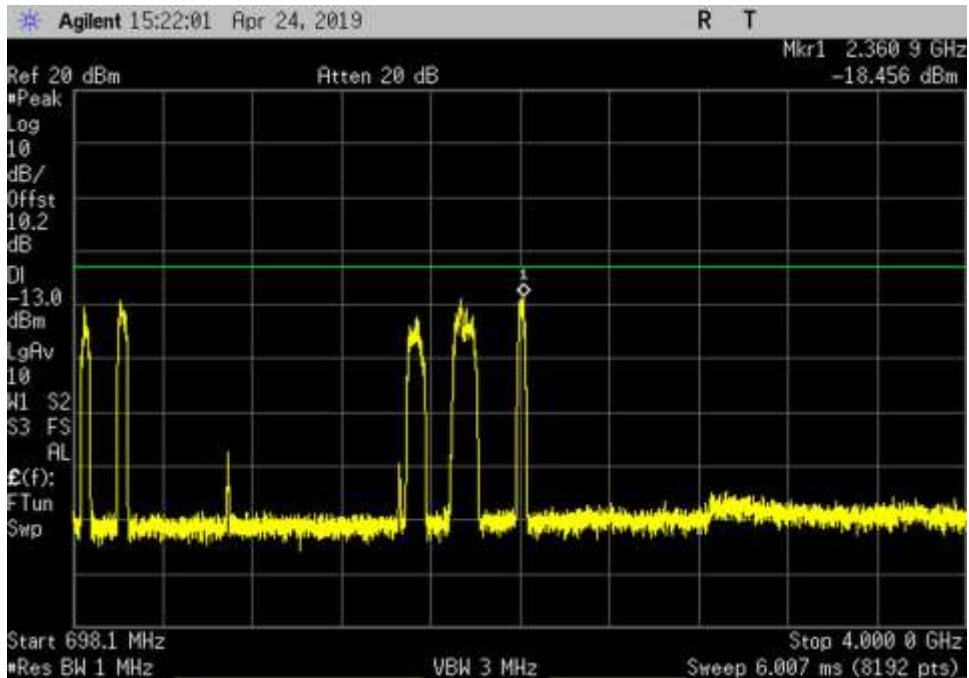
DL\_617-698\_AWGN\_30- 616.9MHz\_MC



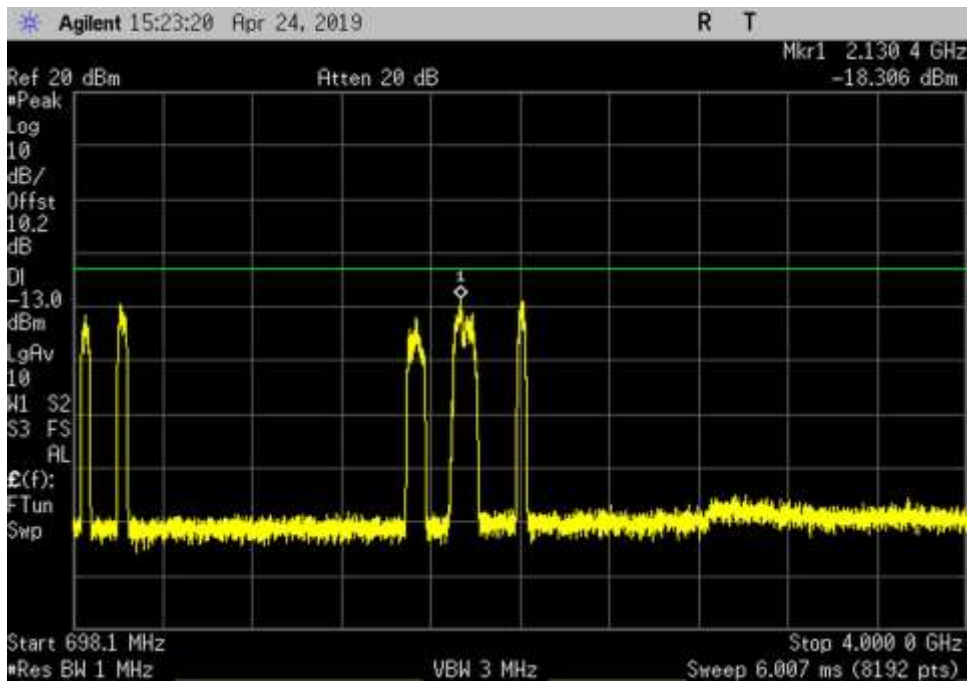
DL\_617-698\_AWGN\_30- 616.9MHz\_HC



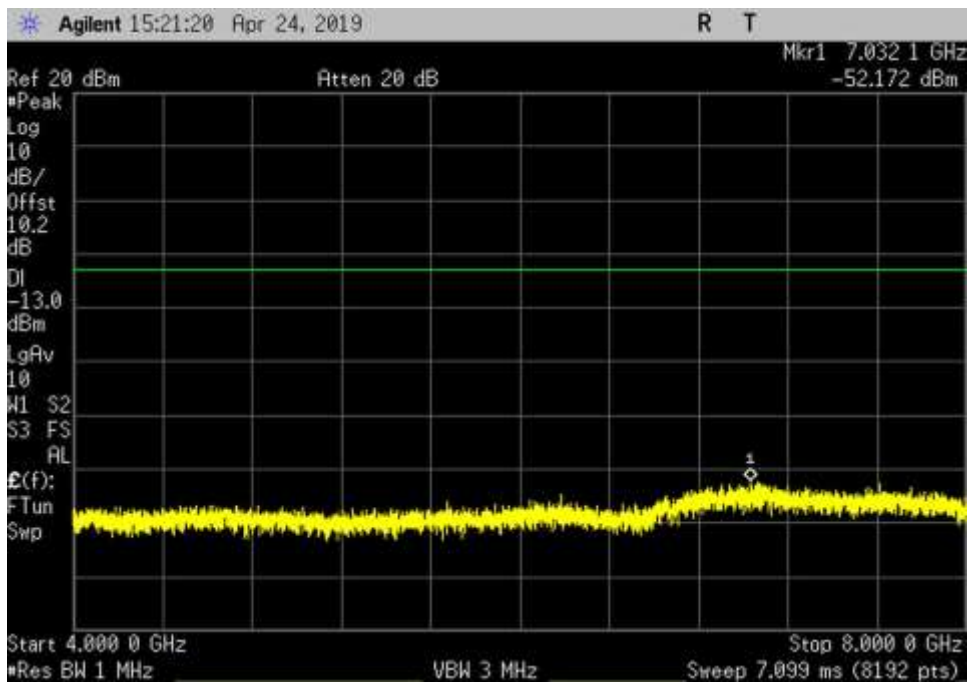
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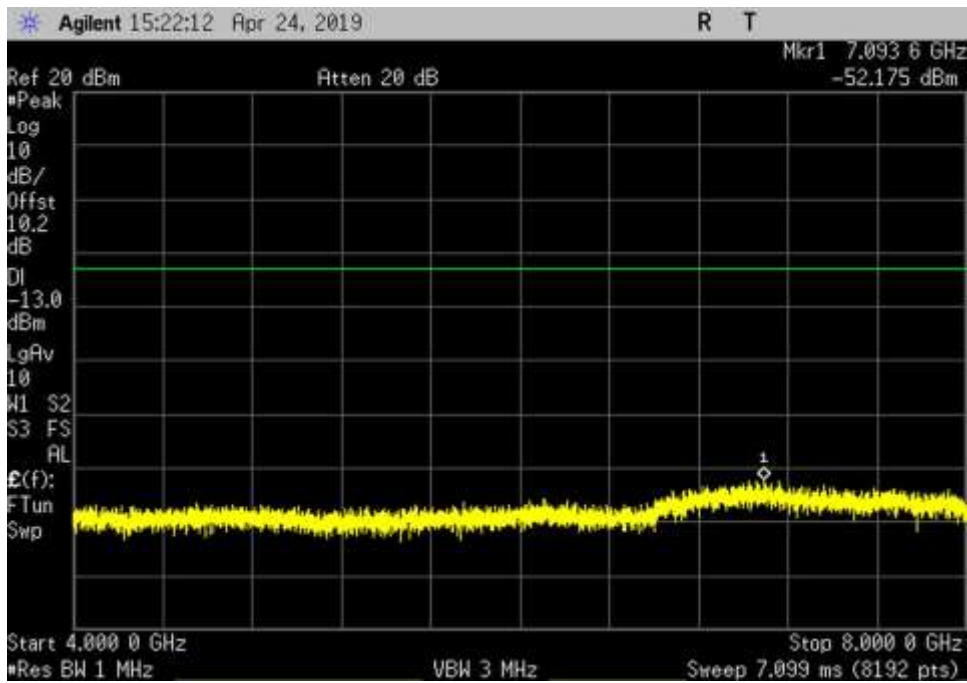
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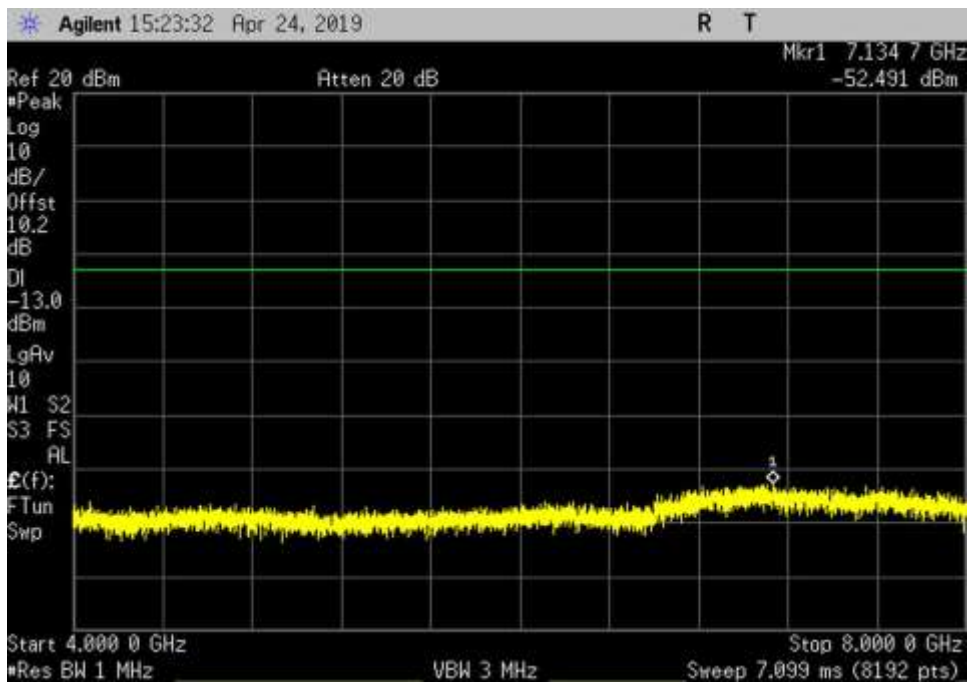
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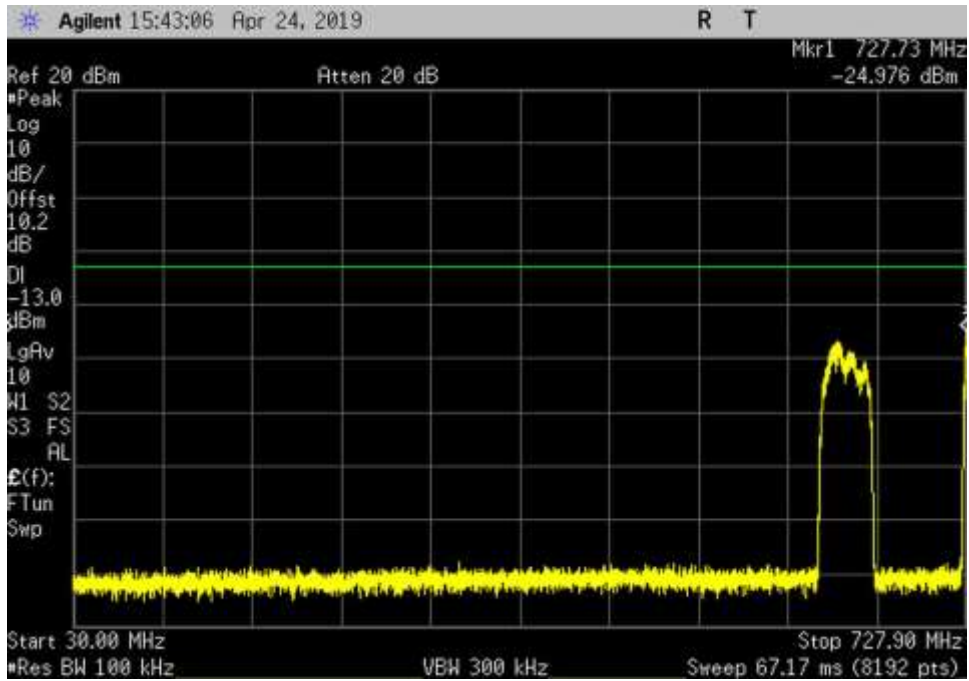
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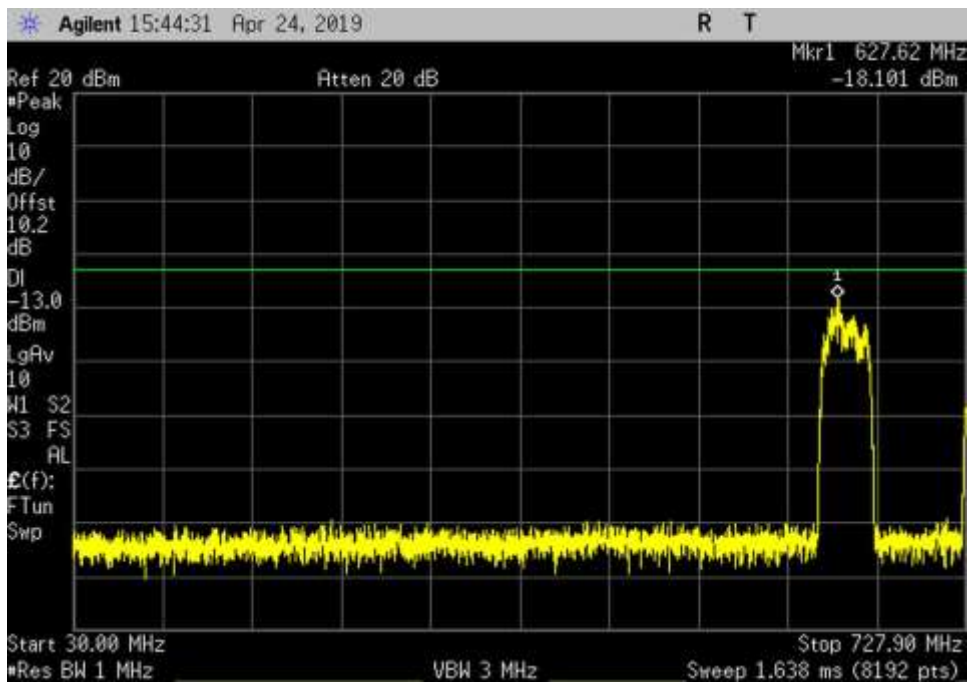
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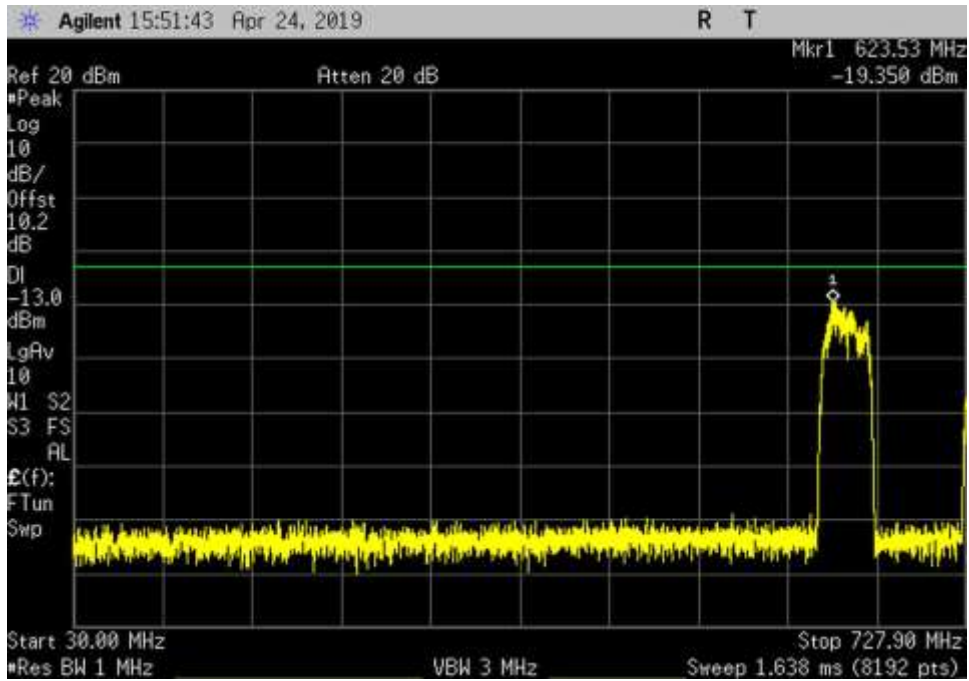
DL\_617-698\_AWGN\_4000-8000MHz\_HC



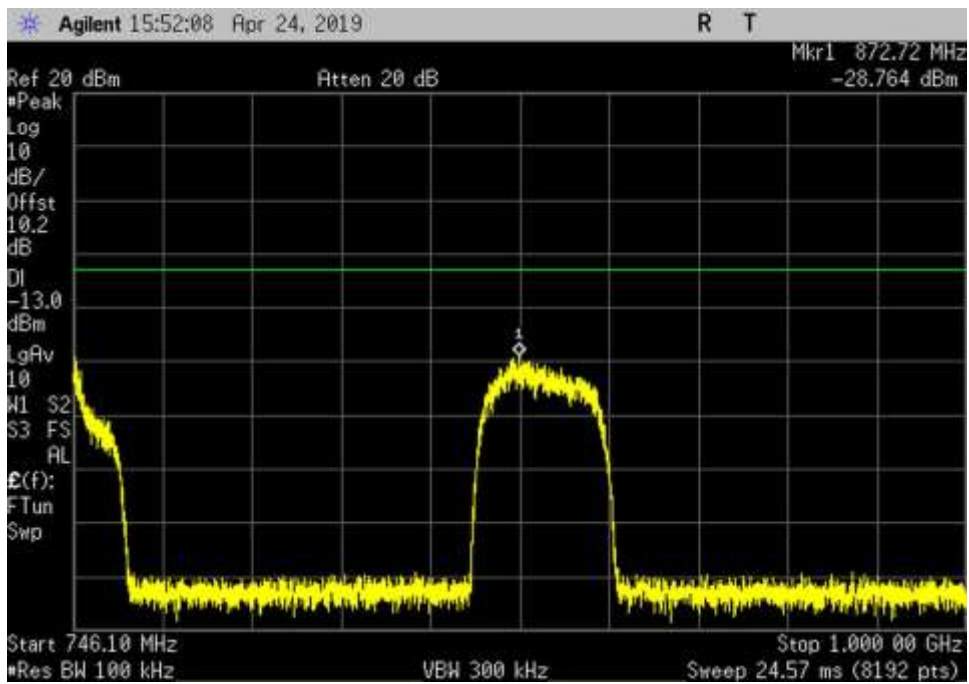
DL\_728-746\_AWGN\_30-727.9MHz\_LC



DL\_728-746\_AWGN\_30-727.9MHz\_MC

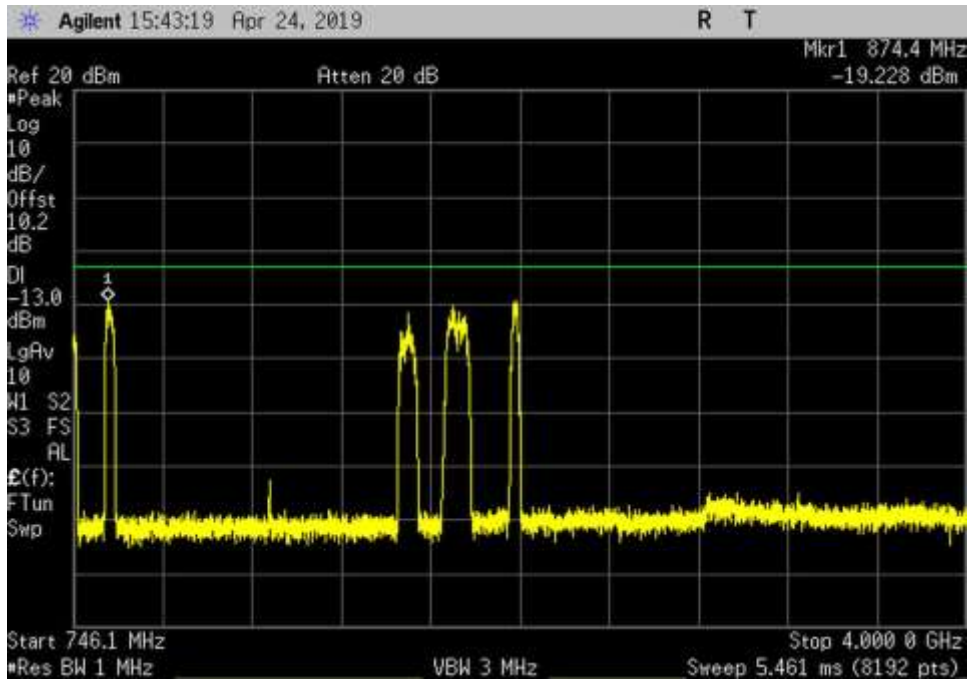


DL\_728-746\_AWGN\_30- 727.9MHz\_HC

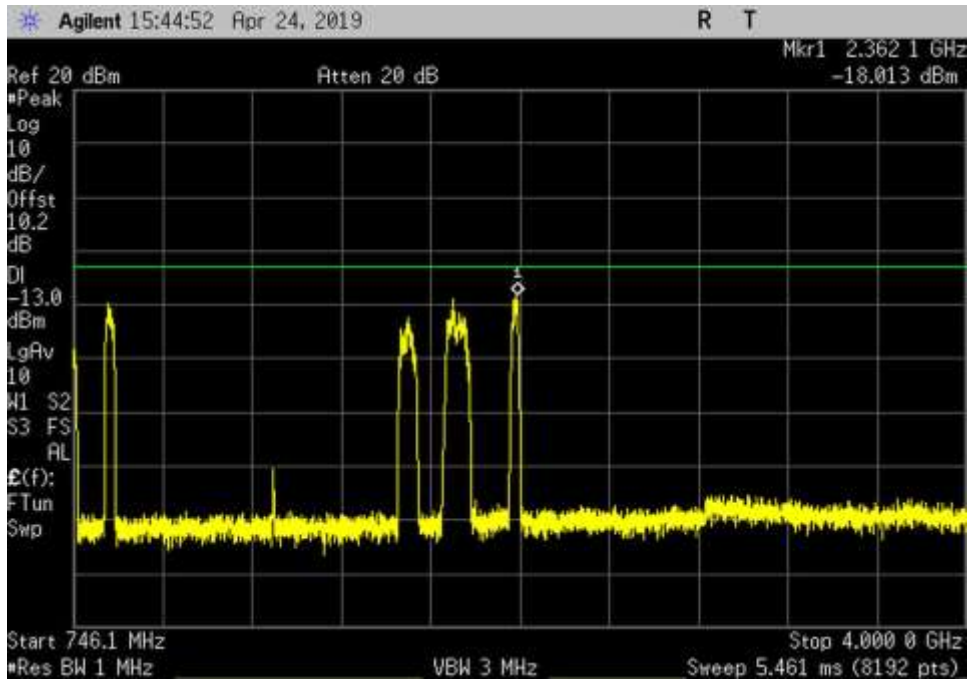


DL\_728-746\_AWGN\_746.1- 1000MHz\_HC

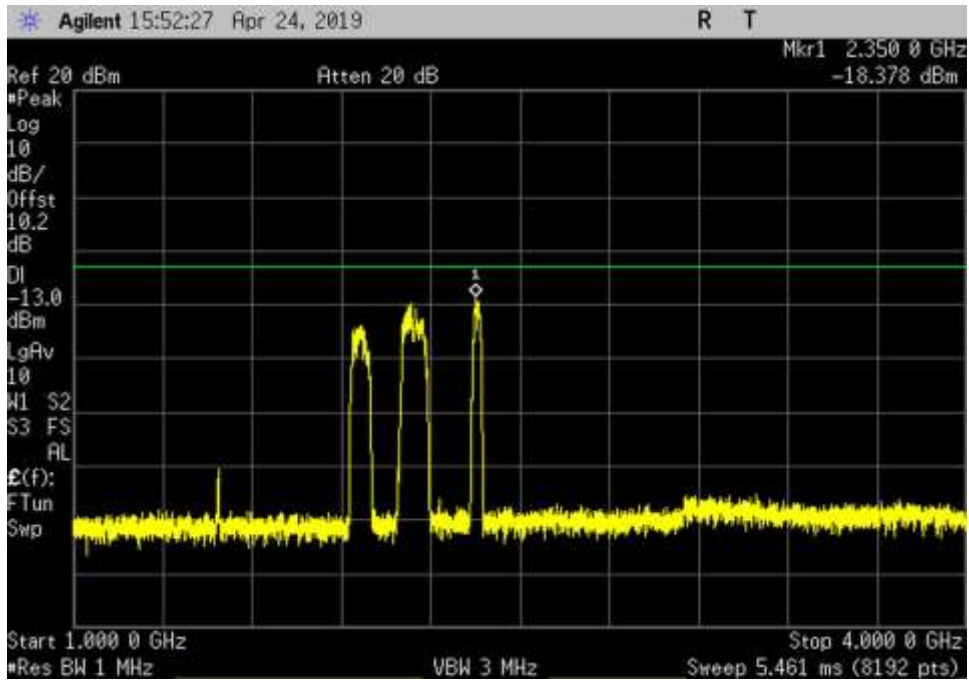




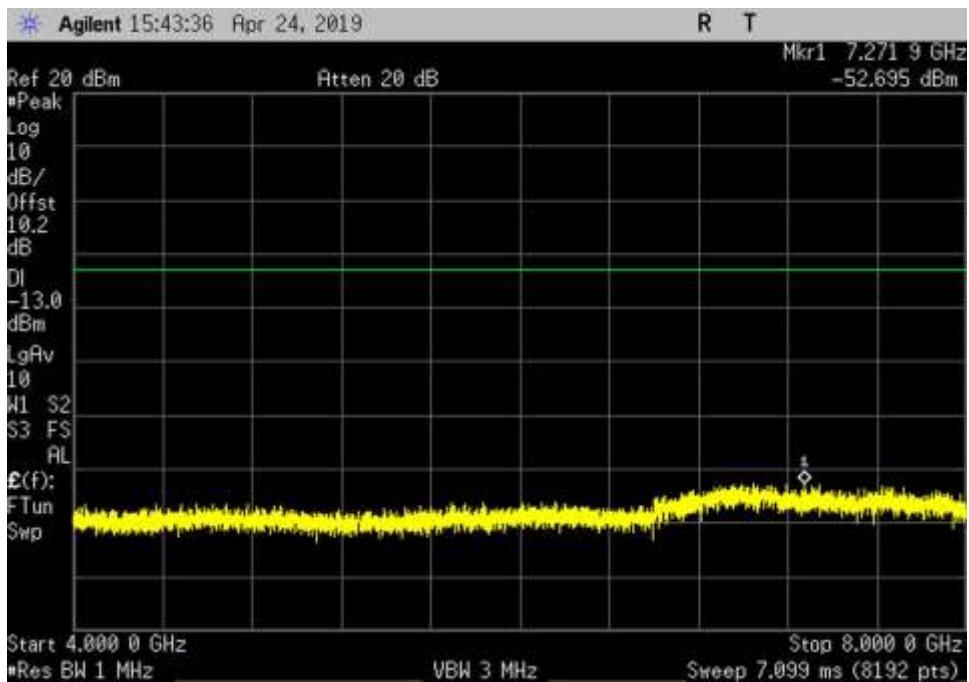
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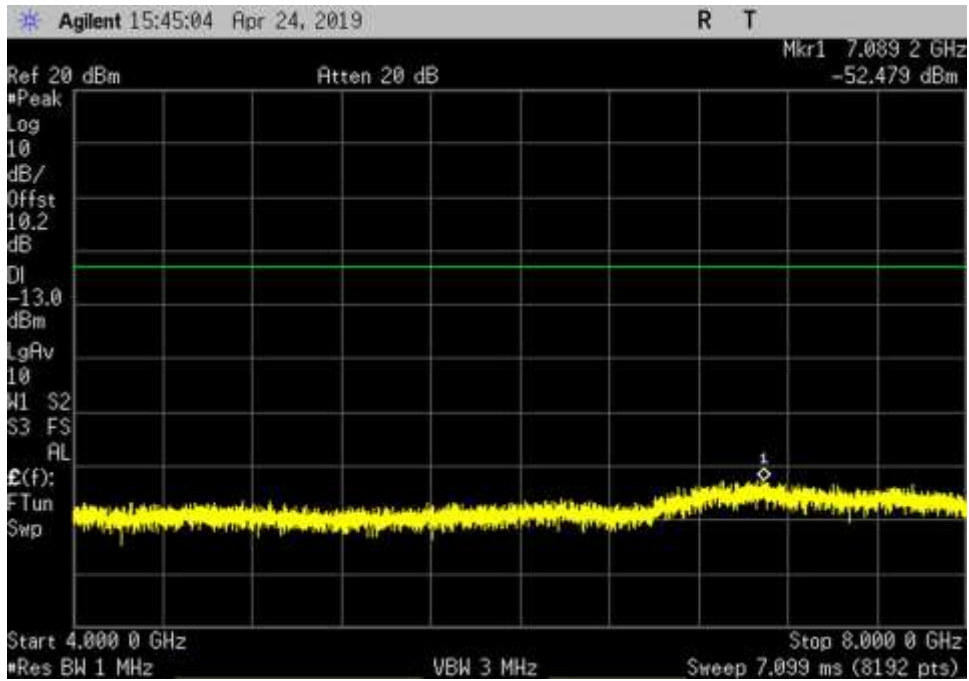
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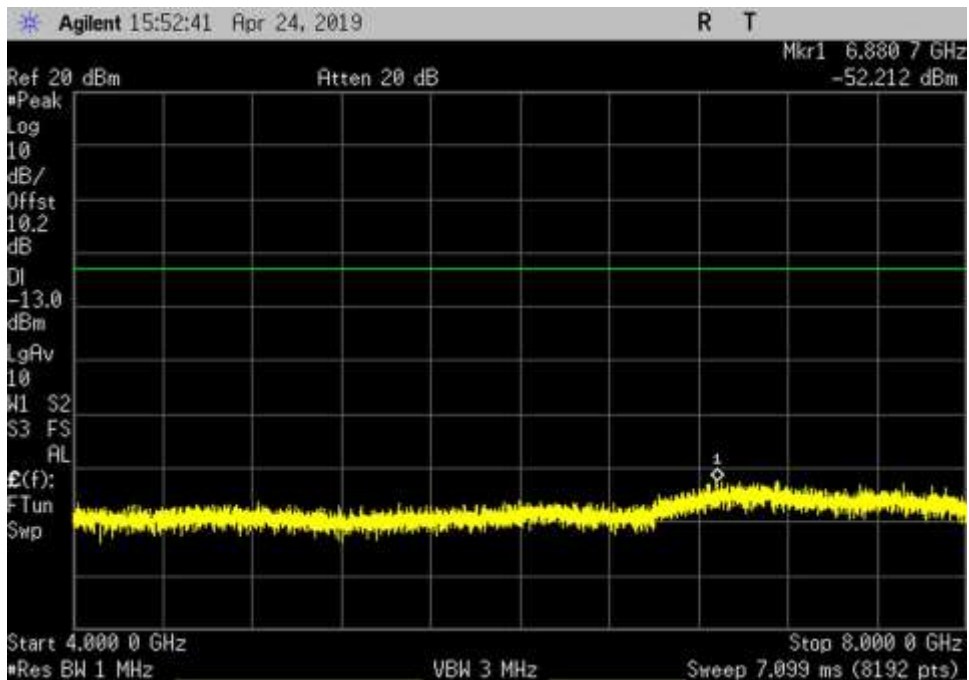
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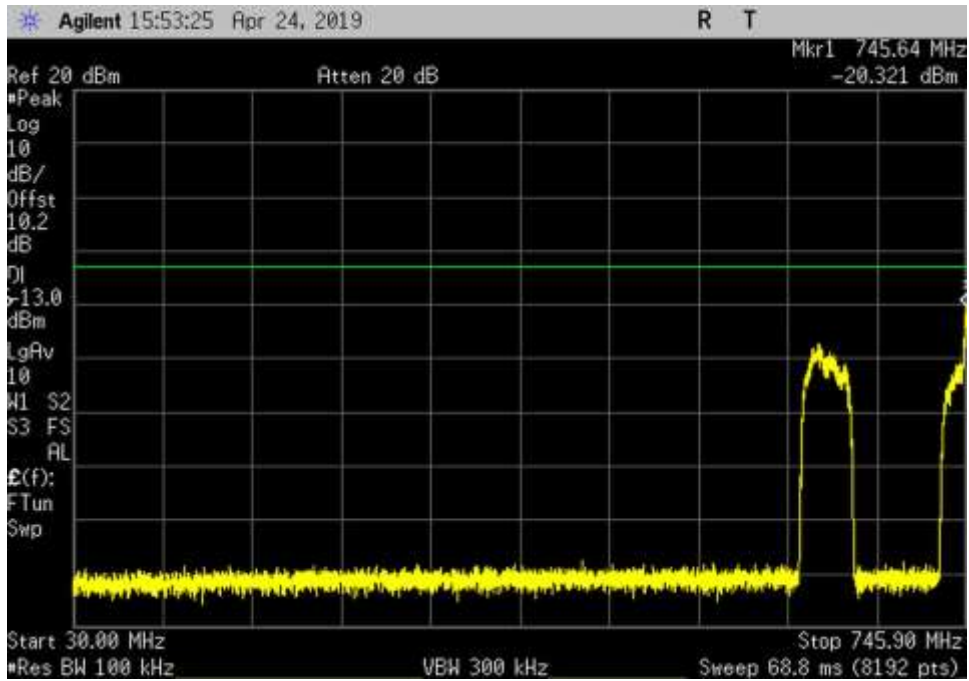
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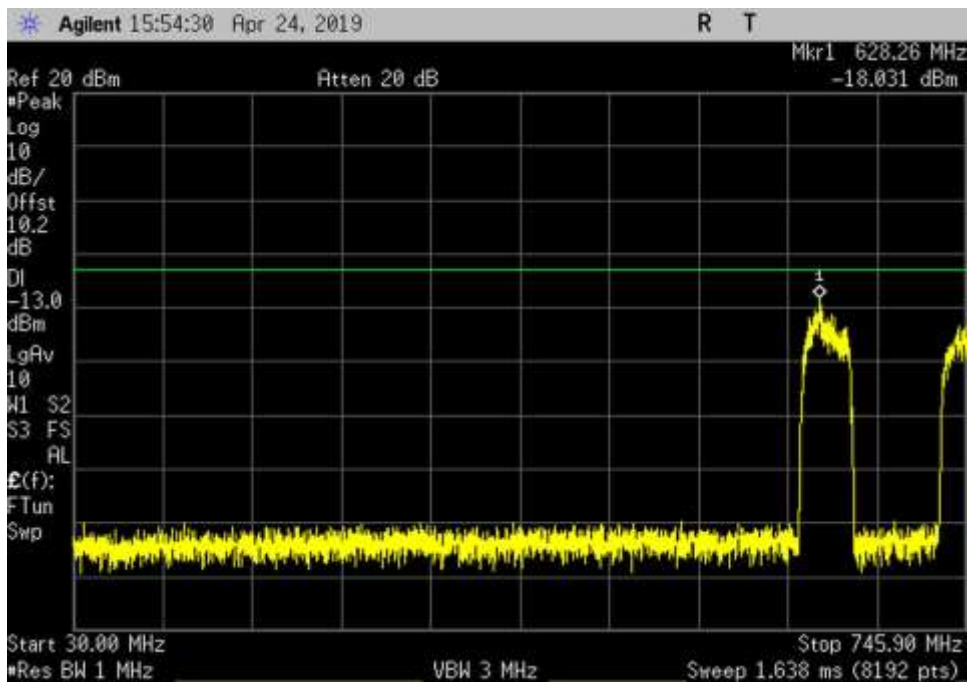
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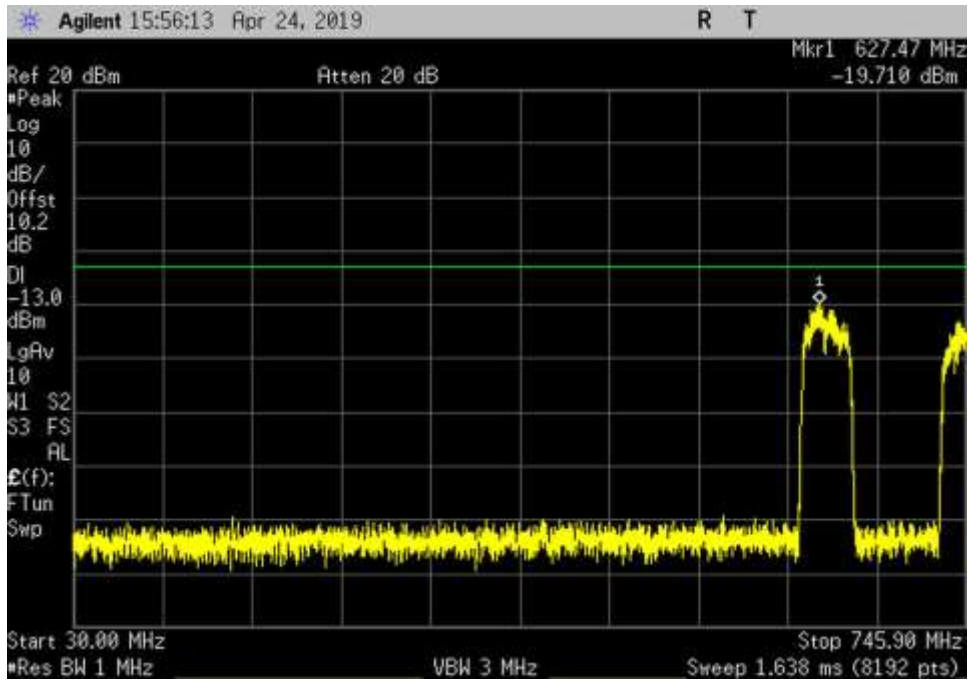
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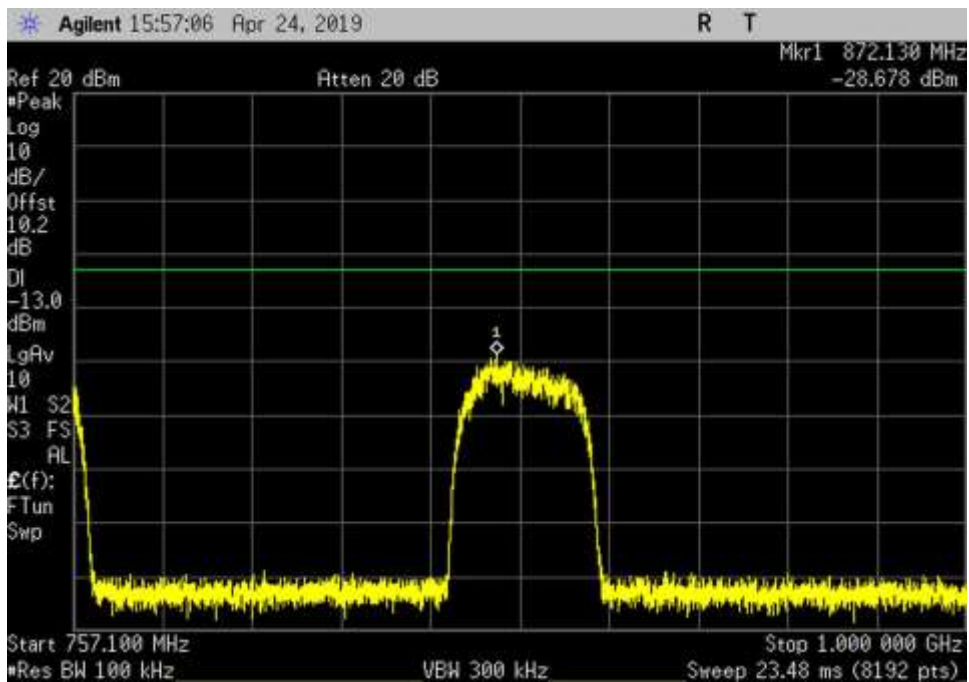
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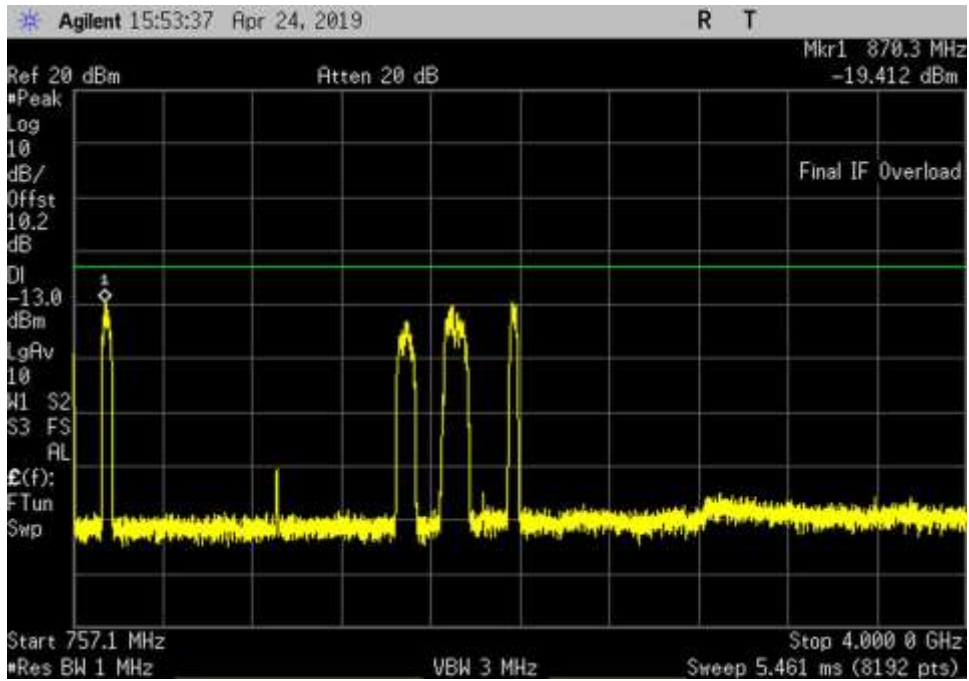
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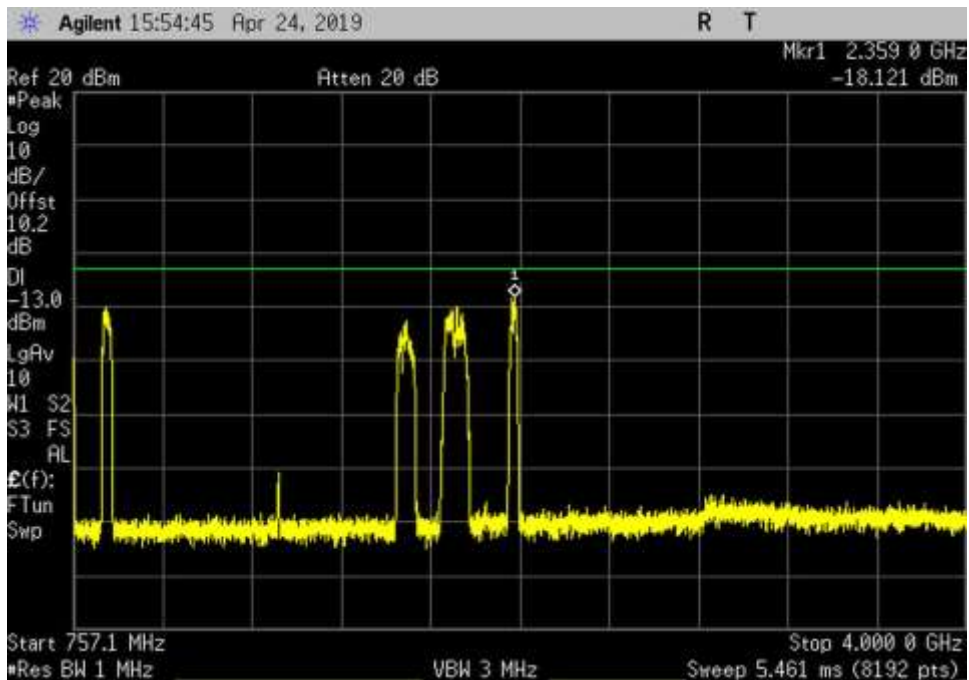
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DL\_746-757\_AWGN\_757.1- 1000MHz\_HC

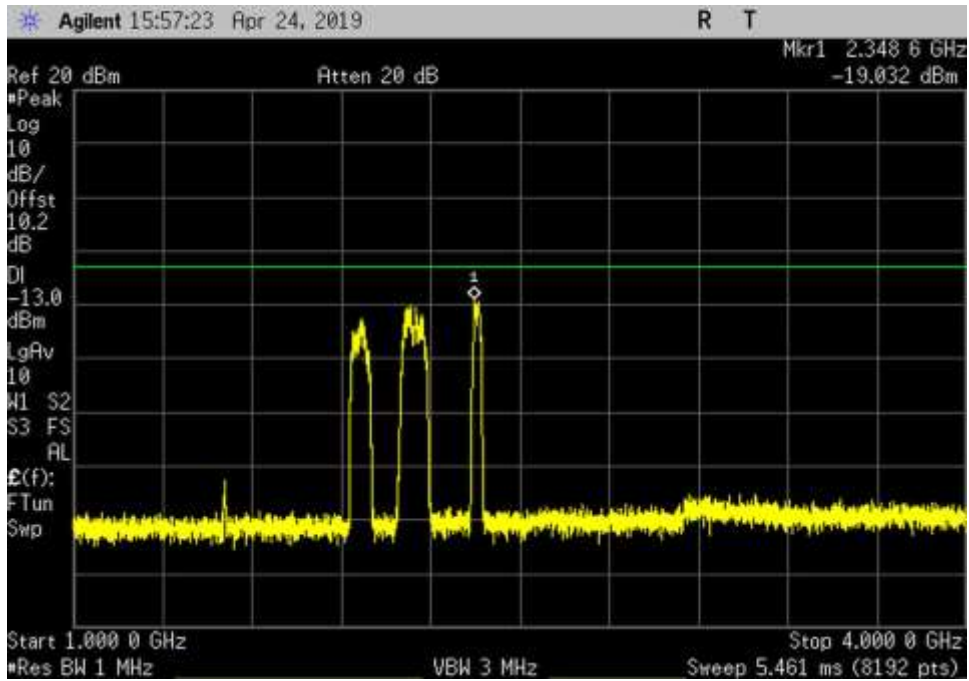


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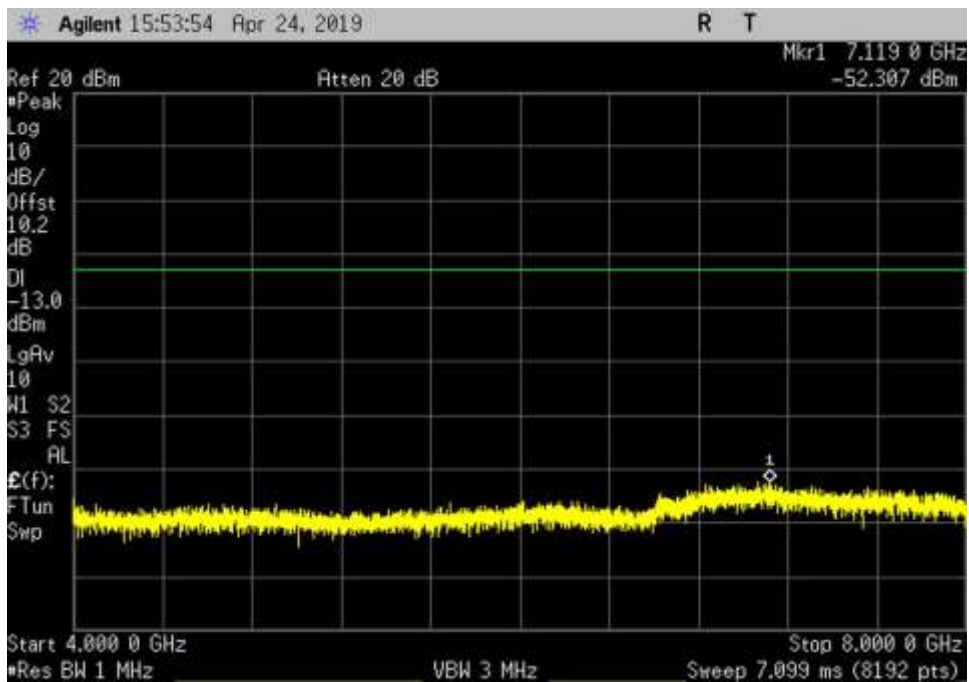


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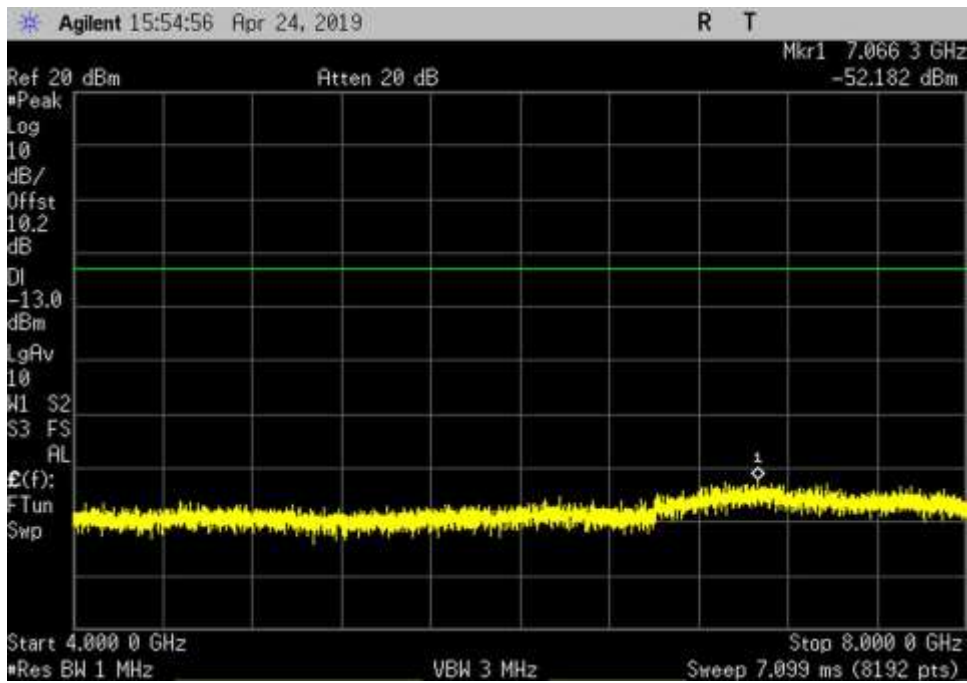




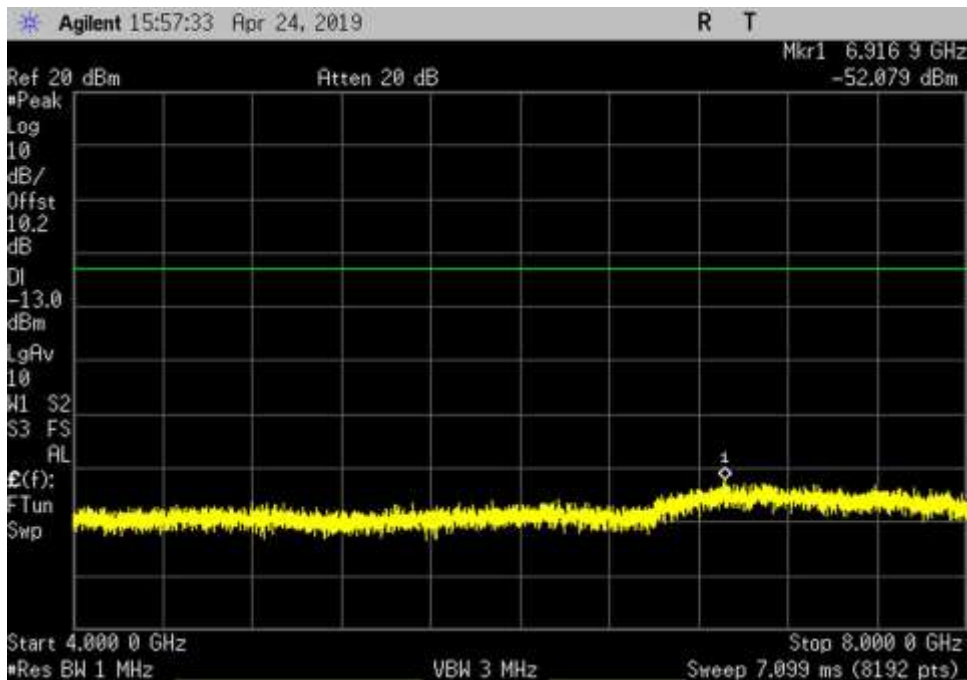
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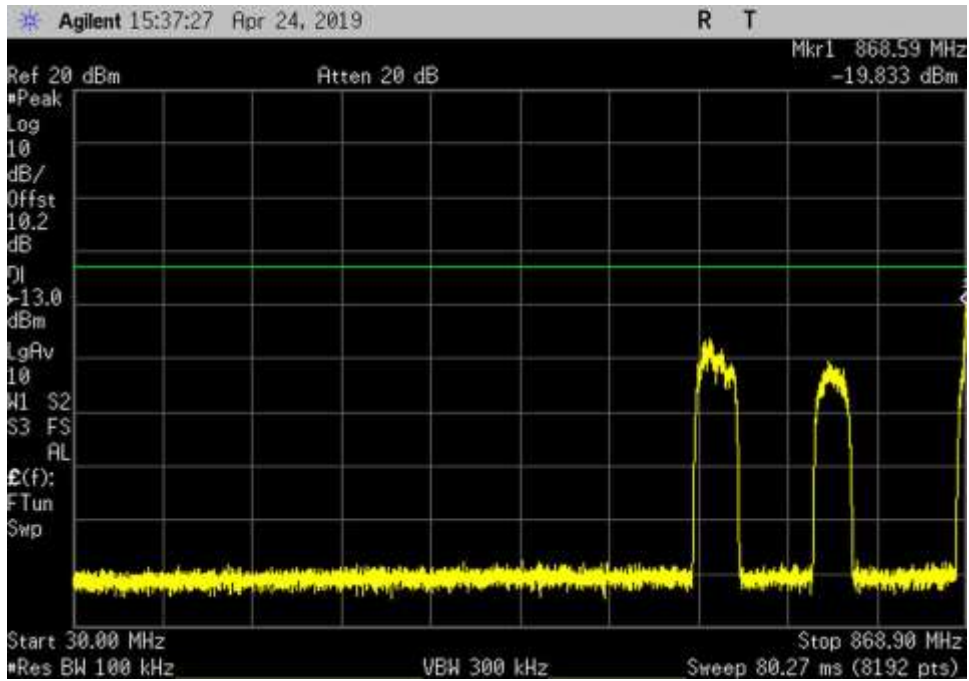
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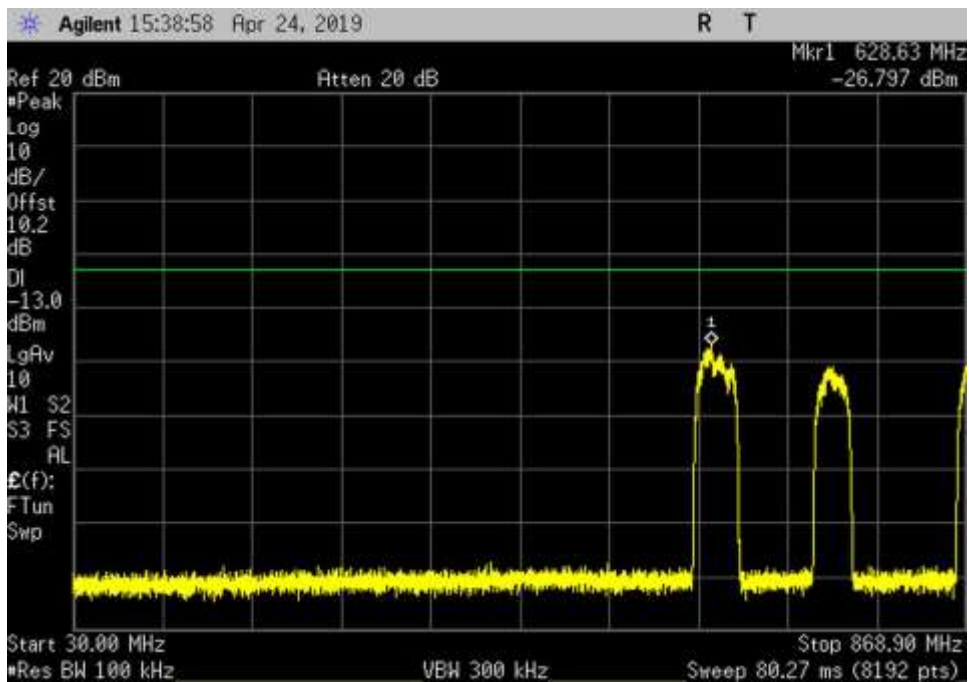
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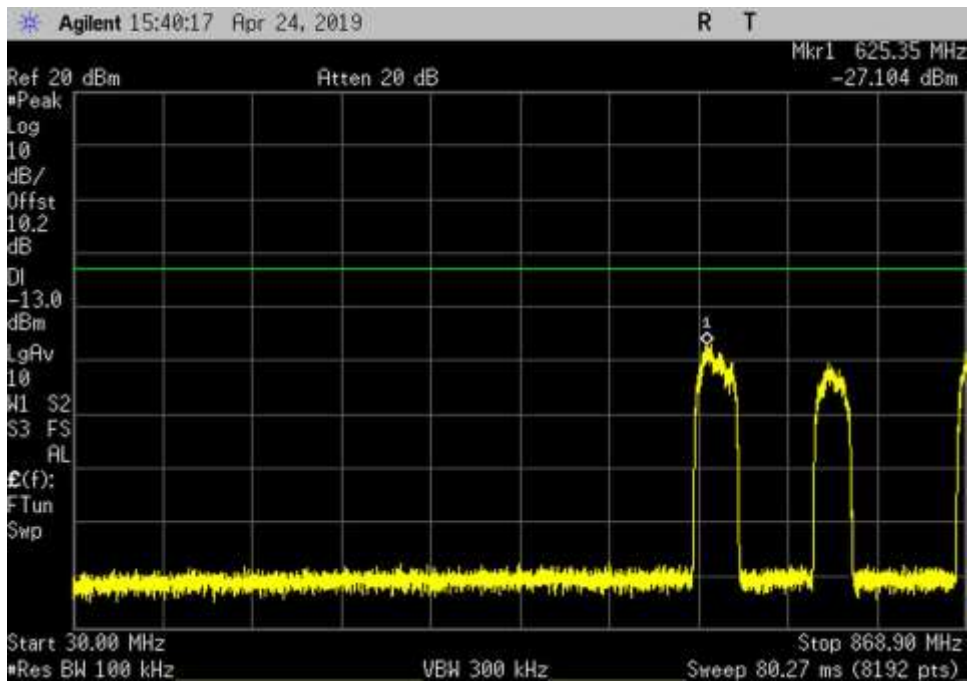
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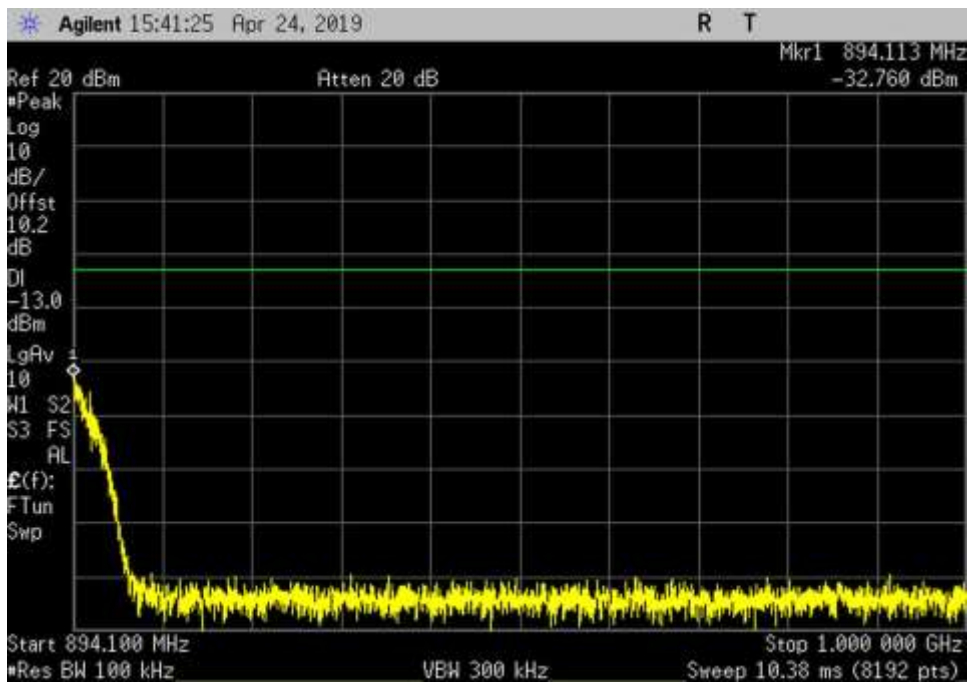
DL\_869-894\_AWGN\_30- 868.9MHz\_LC



DL\_869-894\_AWGN\_30- 868.9MHz\_MC



DL\_869-894\_AWGN\_30- 868.9MHz\_HC



DL\_869-894\_AWGN\_ 894.1- 1000MHz\_HC