

Cellphone-Mate, Inc.

TEST REPORT FOR

Flare
Model: Flare DB V1.0

Tested to The Following Standard:

FCC Part 20.21 / 27

Report No.: 104116-8

Date of issue: July 15, 2020



Test Certificate # 803.01

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

This report contains a total of 116 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc.

TABLE OF CONTENTS

Administrative Information	4
Test Report Information	4
Report Authorization	4
Test Facility Information	5
Software Versions	5
Site Registration & Accreditation Information	5
Summary of Results	6
Modifications During Testing	8
Conditions During Testing	8
Equipment Under Test	8
General Product Information	9
FCC Part 20.21/22H/24E/27	10
General Test Setup	10
7.1 Authorized Frequency Band Verification	12
Summary of Results	12
7.2 Maximum Power and 7.3 Maximum Gain	15
Summary of Results	15
7.4 Intermodulation Product	25
Summary of Results	25
7.5 Out of Band Emissions	30
Summary of Results	30
7.6 Conducted Spurious Emissions	56
Summary of Results	57
7.7 Noise limit	65
Summary of Results	66
7.7.1 Maximum Transmitter Noise Power Level	68
7.7.2 Variable UL Noise Timing	70
7.8 Uplink Inactivity	71
Summary of Results	71
7.9 Booster Gain Limit	73
Summary of Results	74
7.9.1 Maximum Gain	75
7.9.2 Variable uplink Gain Timing	76

7.10 Occupied Band Width	77
Summary of Results	78
7.11 Oscillation Detection	99
Summary of Results	100
7.11.2 Oscillation Restart Tests	102
7.12 Radiated Spurious Emissions	108
Summary of Results	108
Exhibit A: Test Setup Photos	111

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Cellphone-Mate, Inc.
48346 Milmont Drive
Fremont, CA 94538

Representative: Dennis Findley
Customer Reference Number: CKC06032020

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

REPORT PREPARED BY:

Terri Rayle
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 104116

June 8, 2020

June 8-9 and 12-16, 2020

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.12
EMITest Immunity	5.03.10

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Japan
Canyon Park, Bothell, WA	US0081	US1022	A-0136
Brea, CA	US0060	US1025	A-0136
Fremont, CA	US0082	US1023	A-0136
Mariposa, CA	US0103	US1024	A-0136

*CKC's list of NIST designated countries can be found at: <https://standards.gov/cabs/designations.html>

SUMMARY OF RESULTS

Standard / Specification: FCC Part 20.21/27

Wideband Consumer Signal Booster Measurement Guidance: KDB #935210 DO3 v04r04, April 3, 2020

Correlation Matrix & Results					
Guidance Section	Guidance Description	FCC Section	FCC Rule Description	Mods	Results
7.1 a) - k)	Authorized Frequency Band Verification Test	20.21(e)(3)	Frequency Bands	NA	Pass
7.2.2 a) - k)	Maximum Power Measurement Procedure	2.1046/20.21(e)(8)(i)(D)	Power Limit	NA	Pass
7.3 a) - d)	Maximum Booster Gain Computation	20.21(e)(8)(i)(B)	Bidirectional Capabilities	NA	Pass
7.4 a) - n)	Intermodulation Product	20.21(e)(8)(i)(F)	Intermodulation Limit	NA	Pass
7.5 a) - n)	Out of Band Emissions	20.21(e)(8)(i)(E)	Out of Band Emission	NA	Pass
7.6 a) - e)	Conducted Spurious Emission	2.1051/27	Spurious emission	NA	Pass
7.7.1 a) - g) 7.7.1 h) - n) 7.7.2 a) - g)	Noise Limit Procedure Variable Noise Variable Noise Timing	20.21(e)(8)(i)(A)(2)(i) 20.21(e)(8)(i)(A)(1) 20.21(e)(8)(i)(H)	Noise Limits Transmit Power Off Mode	NA	Pass
7.8 a) - l)	Uplink inactivity	20.21(e)(8)(i)(I)	Uplink Inactivity	NA	Pass
7.9.1 a) - l) 7.9.2 a) - f)	Variable Booster Gain Variable Uplink Gain Timing	20.21(e)(8)(i)(C) (1), (2)(i) 20.21(e)(8)(i)(H)	Booster Gain Transmit Power Off Mode	NA	Pass

NA = Not Applicable

Standard / Specification: FCC Part 20.21/22H/24E/27 - continued

Correlation Matrix & Results					
Guidance Section	Guidance Description	FCC Section	FCC Rule Description	Mods	Results
7.10.a) - j)	Occupied Band Width	2.1049/27	Occupied Band Width	NA	Pass
7.11.2 a) - r) 7.11.3 a) - h) 7.11.4 a) - h) (alternate to 7.11.3)	Anti-Oscillation	20.21(e)(8)(ii)(A)	Anti-Oscillation	NA	Pass
7.12a) - f)	Radiated Spurious Emission	2.1053/ 27	Spurious Emission	NA	Pass
7.13 a) - c)	Spectrum Block Filter			NA	NA1
7.14.2 7.14.3	Verification of self-monitoring Verification of two-enclosure booster system operation	NA	NA	NA	NA2
7.15	Additional requirements for Single donor port multiple server port single enclosure consumer signal booster	NA	NA	NA	NA3

NA = Not Applicable

NA1 = Not applicable because the EUT does not have spectrum blocking.

NA2 = Not applicable because the EUT does not employ dual enclosure operation.

NA3 = Not applicable because the EUT is not a Single donor port multiple server port single enclosure consumer signal booster.

ISO/IEC 17025 Decision Rule

The declaration of pass or fail herein is based upon assessment to the specification(s) listed above, including where applicable, assessment of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions
No modifications were made during testing.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
Switching Power Adapter	SureCall	GME18A-050300FUR	NA
Flare	Cellphone-Mate, Inc DBA as SureCall	Flare DB V1.0	NA

Support Equipment:

Device	Manufacturer	Model #	S/N
None			

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Type of Equipment	Fixed Wideband Consumer booster/Zone Enhancer
Operating Frequency Range:	UL: 698-716MHz, 776-787MHz DL: 728-746MHz, 746-757MHz
Emissions Type(s):	GXW (GSM) G7W (EDGE) F9W(CDMA) F9W(WCDMA) W7D (LTE)
Modulation Type(s):	0.3 GMSK (GSM) 3p/8 8-PSK (EDGE) QPSK (CDMA) BPSK/QPSK (WCDMA) OFDM (LTE)
Number of TX Chains:	1
Antenna Type(s) and Gain:	Dedicated, See antenna kitting information
Beamforming Type:	NA
Antenna Connection Type:	Donor/Outdoor antenna/ UL: 75 Ohm F Server / indoor antenna/ DL: 50 Ohm SMA
Nominal Input Voltage:	120VAC 60Hz
Firmware / Software used for Test:	SC-FlareDual-V-1-0 Version v1.0

FCC PART 20.21/27

General Test Setup

Summary of Conditions

The equipment under test (EUT) is a Fixed Wideband Consumer Booster.

The EUT is placed on the Styrofoam platform for radiated emission and a test bench for conducted emission measurement.

Conducted measurement performed at the Outside (Donor) and Inside (Server) antenna port.

The EUT Server port is a SMA connector and 50-ohm impedance.

The EUT Donor port is F connector with integral antenna 75-ohm impedance.

75-50 ohm converter (ANP06909) is used in the 75 ohm path for measurement purposes and insertion loss of converter has been accounted for.

UL: 698-716MHz, 776-787MHz

DL: 728-746MHz, 746-757MHz

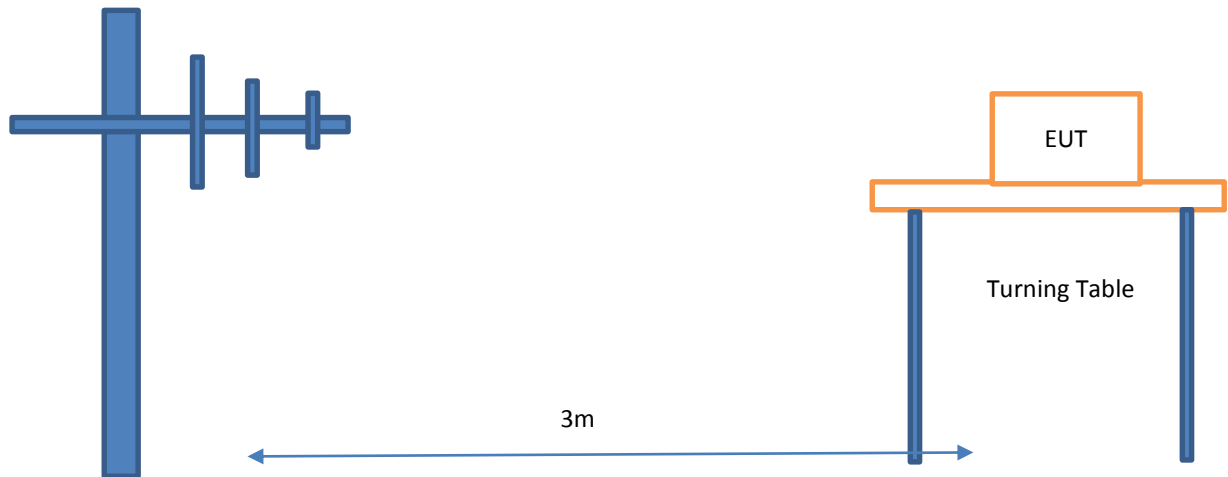
Test procedure:

The test was performed in accordance with the FCC document: 935210 D03 Signal Booster Measurements v04r04, dated April 03, 2020.

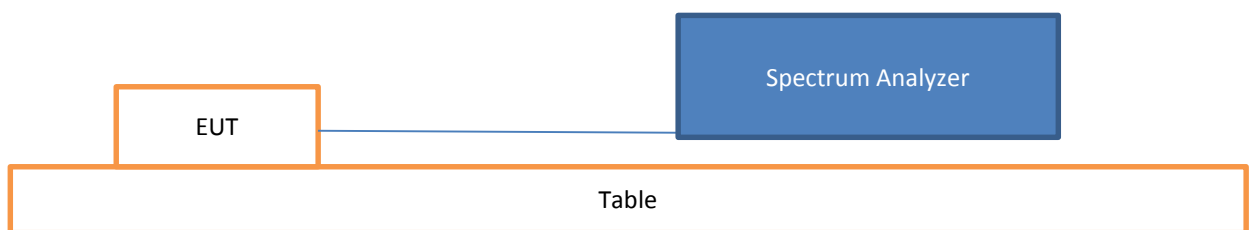
Firmware: SC-FlareDual-V-1-0 Version v1.0

Device is powered by AC power supply 120VAC 60Hz

Radiated Method Setup



Conducted Method Setup



7.1 Authorized Frequency Band Verification

Test Setup/Conditions

Test Location:	Fremont	Test Engineer:	E. Wu
Test Date(s):	6/8/2020		
Configuration:	1		
Test Setup:	See General Test Setup		

Environmental Conditions

Temperature (°C)	23.8	Relative Humidity (%):	47	Pressure: kPa	101.6
------------------	------	------------------------	----	---------------	-------

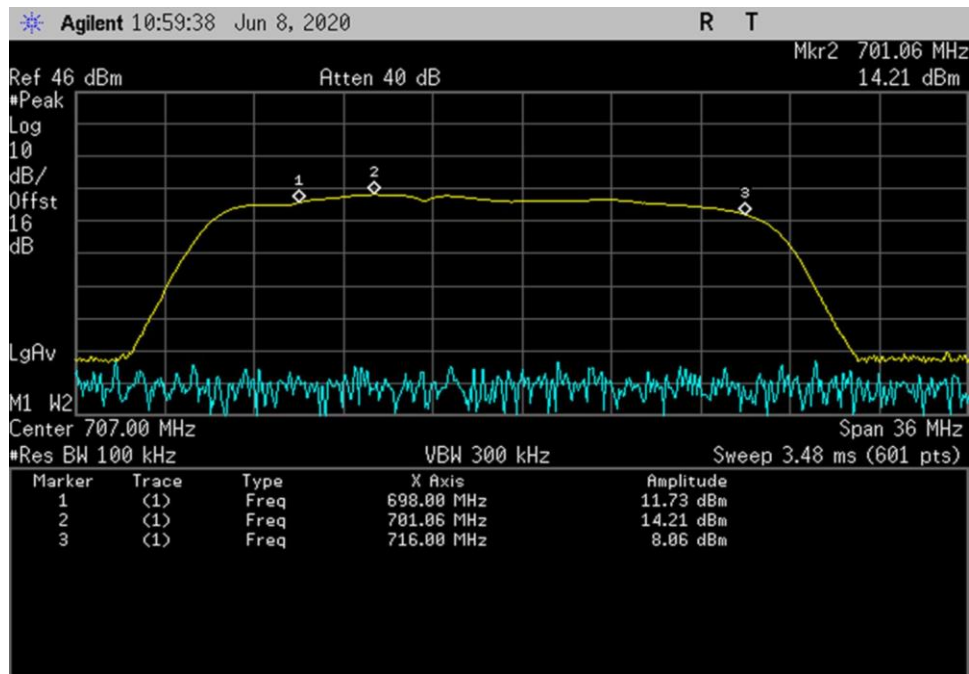
Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05411	Attenuator	Weinschel	54A-10	11/27/2019	11/27/2021
P07192	Cable	Astro	32022-29094K-29094K-48TC	11/27/2019	11/27/2021
03360	Cable	Astrolab	32022-2-29094-36TC	4/9/2020	4/9/2022
03418	Signal Generator	Agilent	E4438C	5/13/2019	5/13/2021
02660	Spectrum Analyzer	Agilent	E4446A	10/19/2018	10/19/2020
P06909	Attenuator	Pasternack	PE7083	1/7/2020	1/7/2022

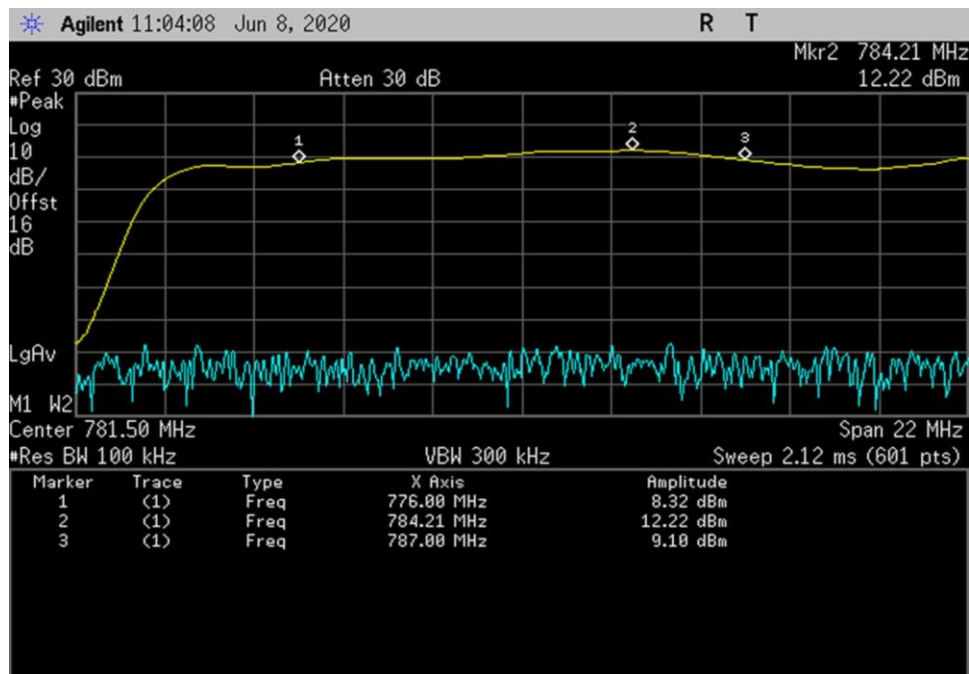
Summary of Results

Pass: The plots below show the device only operates on the CMRS frequency bands authorized for use by the NPS.

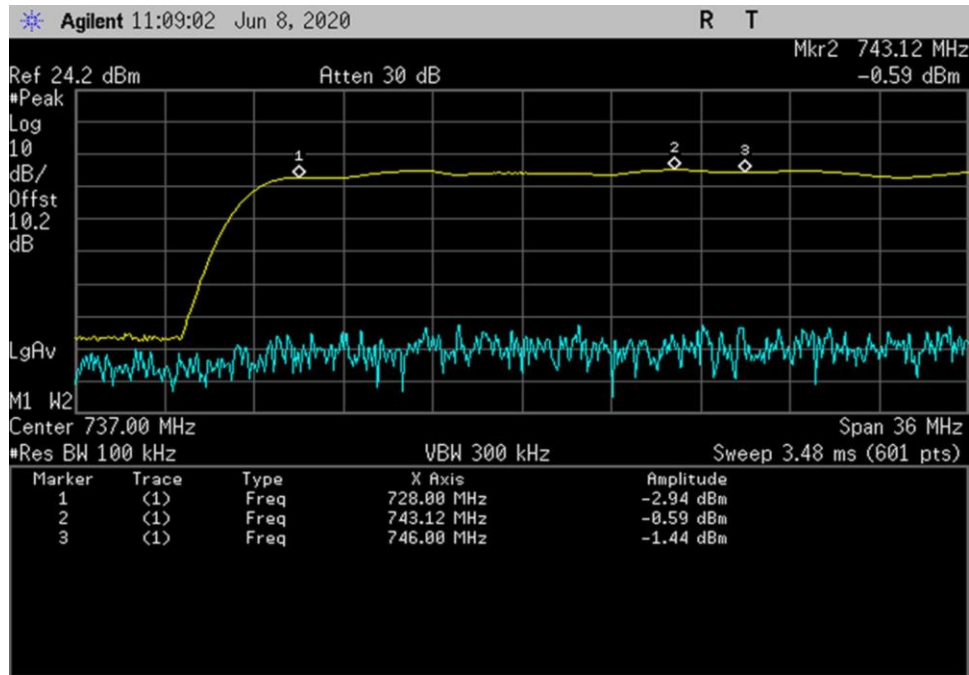
Plots



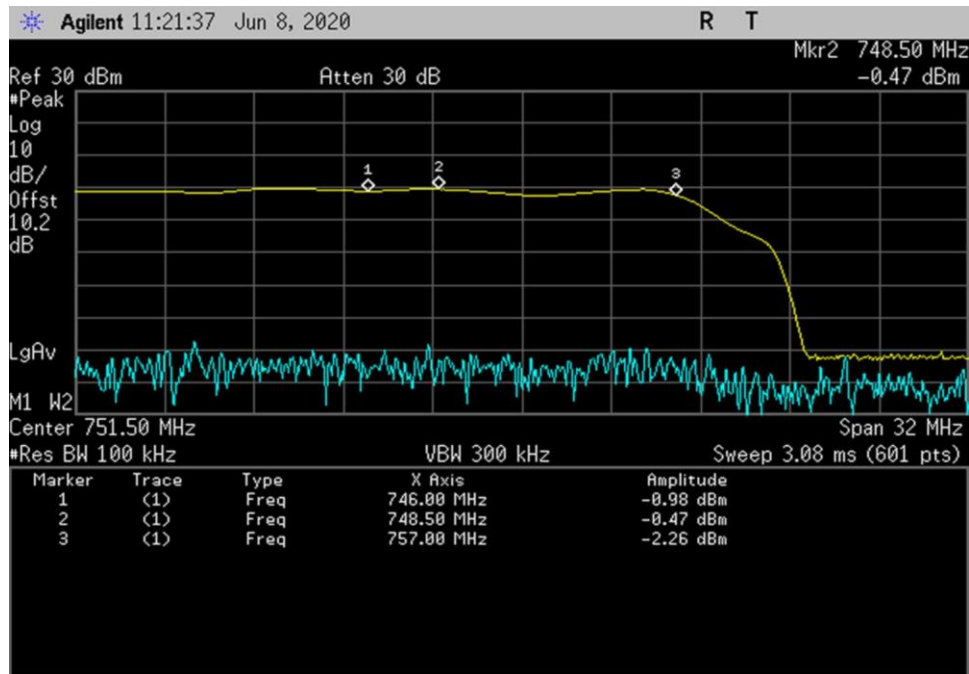
UL_698-716_698- 701.06MHz.



UL_776-787_776- 784.21MHz



DL_728-746_ 728- 743.12MHz



DL_746-757_ 746- 748.5MHz

7.2 Maximum Power and 7.3 Maximum Gain

Test Setup/Conditions

Test Location:	Fremont	Test Engineer:	E. Wu
Test Date(s):	6/9/2020		
Configuration:	1		
Test Setup:	See General Test Setup		

Environmental Conditions

Temperature (°C)	24.1	Relative Humidity (%):	47	Pressure: kPa	101.6
------------------	------	------------------------	----	---------------	-------

Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05411	Attenuator	Weinschel	54A-10	11/27/2019	11/27/2021
P07192	Cable	Astro	32022-29094K-29094K-48TC	11/27/2019	11/27/2021
03360	Cable	Astrolab	32022-2-29094-36TC	4/9/2020	4/9/2022
03418	Signal Generator	Agilent	E4438C	5/13/2019	5/13/2021
02660	Spectrum Analyzer	Agilent	E4446A	10/19/2018	10/19/2020
P06909	Attenuator	Pasternack	PE7083	1/7/2020	1/7/2022

Summary of Results

Pass: as summarized in table below, measured EIRP, Gain and UL/DL gain ratio are within limits.

Pre AGC				Pre AGC		
Frequency (MHz)	Pulse GSM			4.1 MHz AWGN		
	Input (dBm)	Output (dBm)	Gain (dB)	Input (dBm)	Output (dBm)	Gain (dB)
UL 698-716	-38.1	24.6	62.7	-37.7	25.5	63.2
UL776-787	-39.4	24.1	63.5	-37.9	24.5	62.4
DL 728-746	-49.9	12.5	62.4	-49.6	12.6	62.2
DL 746-757	-49.8	12.3	62.1	-49.4	12.4	61.8

Pulsed GSM					Conducted	Conducted and EIRP
Frequency	Conducted Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit Min(dBm)	Limit Max(dBm)
UL 698-716	24.6	8.0	3.5	29.1	17	30
UL776-787	24.1	8.0	3.5	28.6	17	30
DL 728-746	12.5	2.5	0.0	15.0	NA	17
DL 746-757	12.3	2.5	0.0	14.8	NA	17

4.1MHz AWGN					Conducted	Conducted and EIRP
Frequency	Conducted Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit Min(dBm)	Limit Max (dBm)
UL 698-716	25.5	8.0	3.5	30.0	17	30
UL776-787	24.5	8.0	3.5	29.0	17	30
DL 728-746	12.6	2.5	0.0	15.1	NA	17
DL 746-757	12.4	2.5	0.0	14.9	NA	17

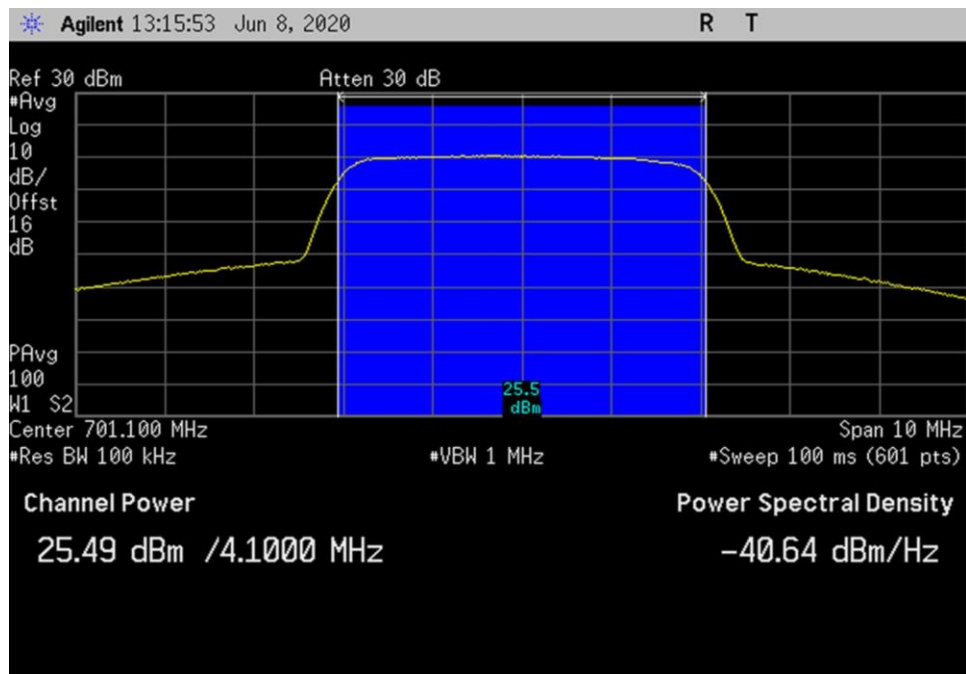
Section 5.5 power						
	Pulse GSM			4.1 MHz AWGN		
Frequency	Input(dBm)	Output (dBm)	Gain (dB)	Input(dBm)	Output (dBm)	Gain(dB)
UL 698-716	0.0	24.3	24.3	0.0	23.5	23.5
UL776-787	-1.5	23.9	25.4	0.0	23.7	23.7
DL 728-746	-39.7	12.5	52.2	-39.6	11.7	51.3
DL 746-757	-40.1	11.6	51.7	-39.8	11.7	51.5

Note: The booster went into Transmitter off mode at Max input power IAW section 5.5. Results presented in the above table are at 1 dB below the Transmit off RF input level.

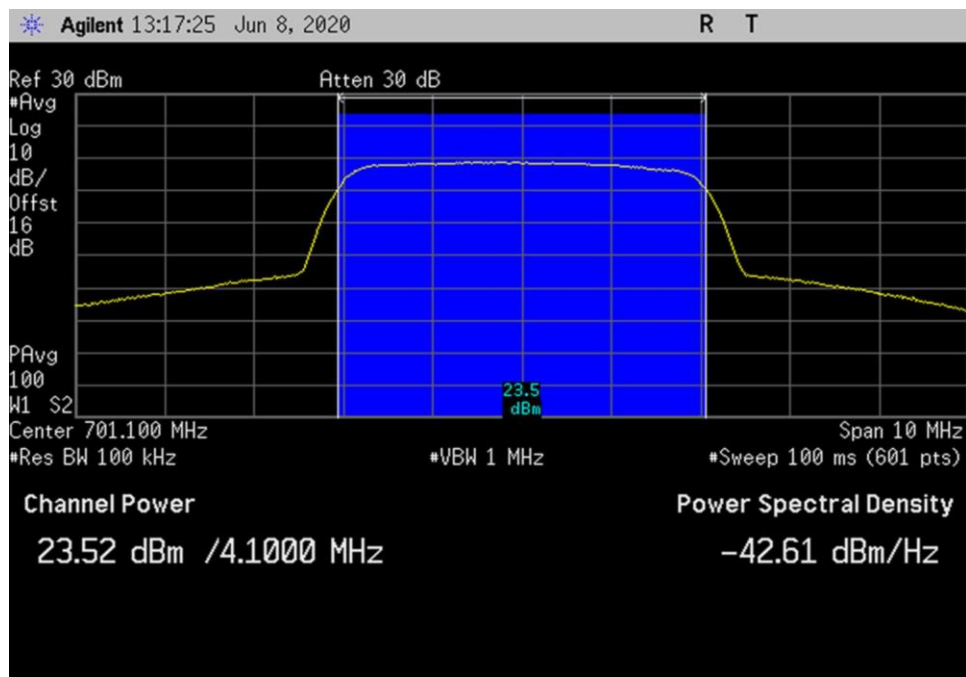
UL gain vs DL gain	Pulse GSM (dB)	4.1MHz AWGN (dB)	Limit (dB)
UL gain vs DL gain 698/716	0.3	1.0	9.0
UL gain vs DL gain 776/746	1.4	0.6	9.0

Plots

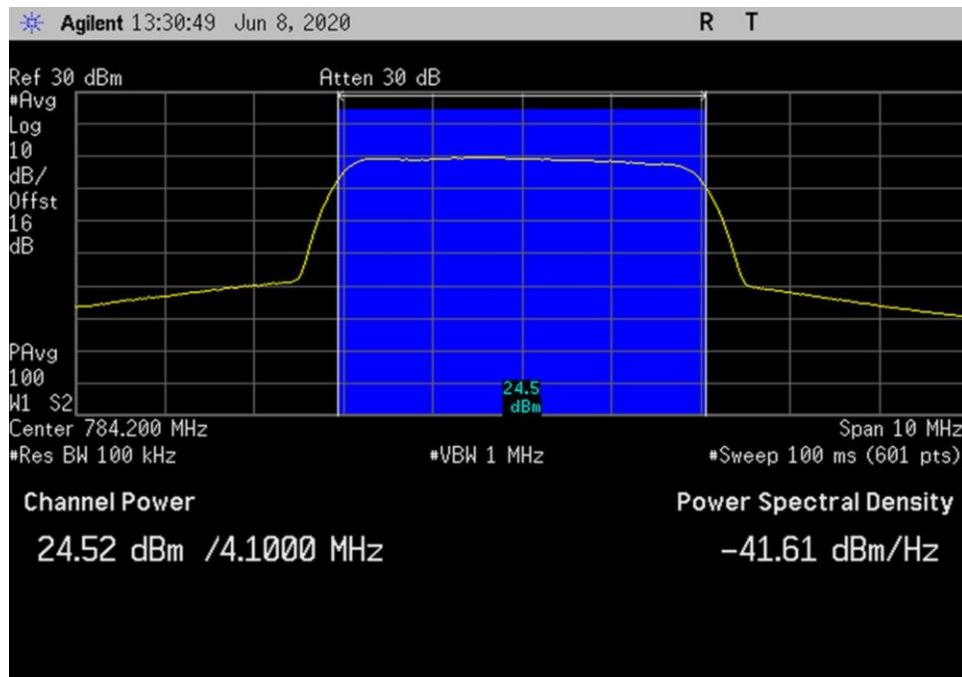
AWGN



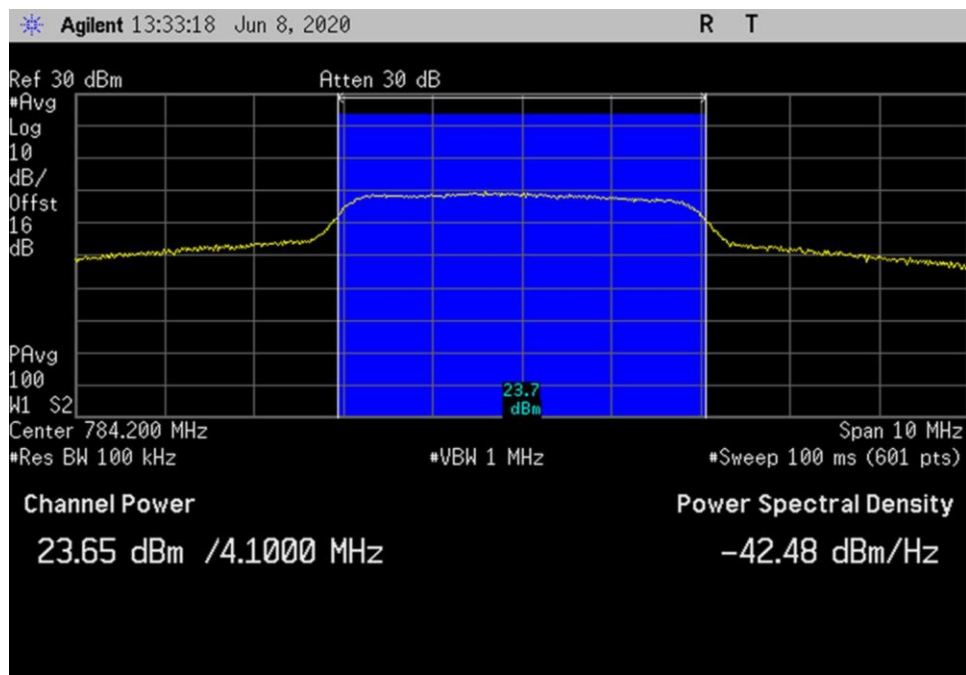
UL_698-716_AWGN_701.1MHz



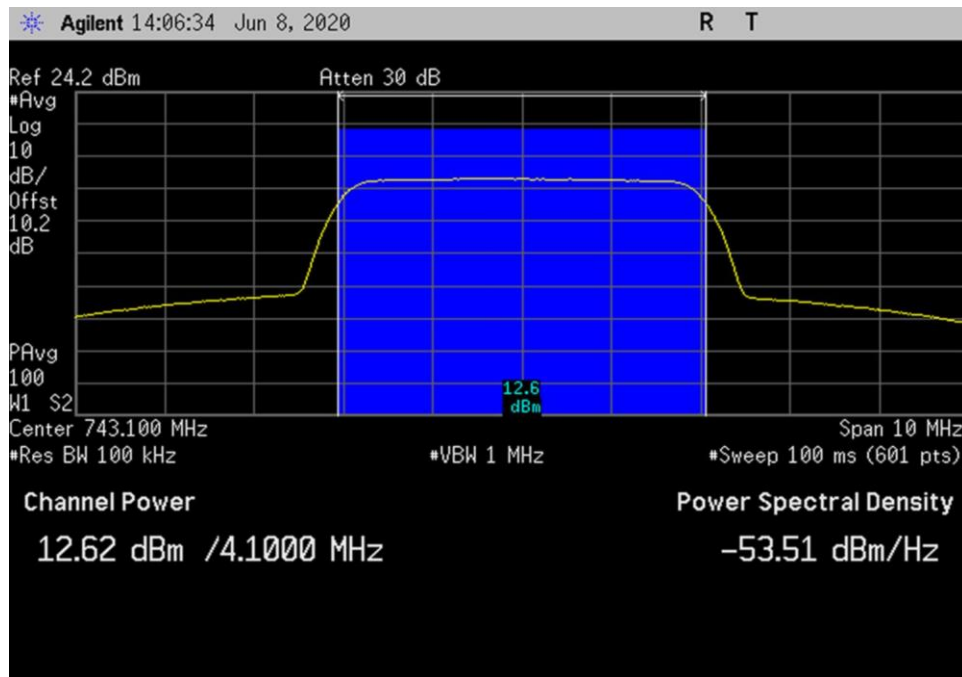
UL_698-716_AWGN_Max_701.1MHz



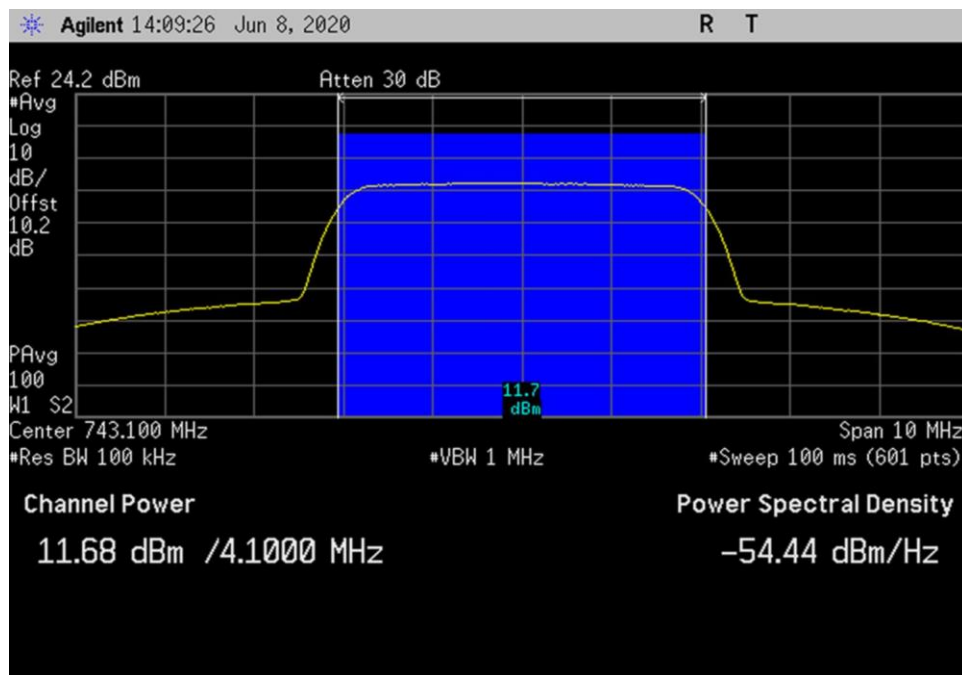
UL_776-787_AWGN_784.2MHz



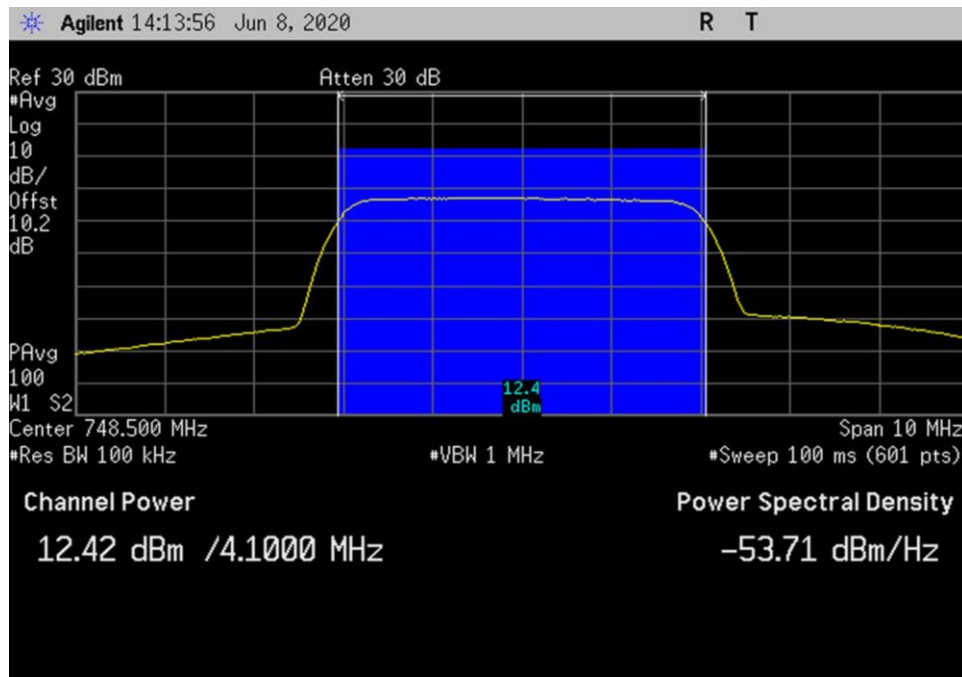
UL_776-787_AWGN_Max_784.2MHz



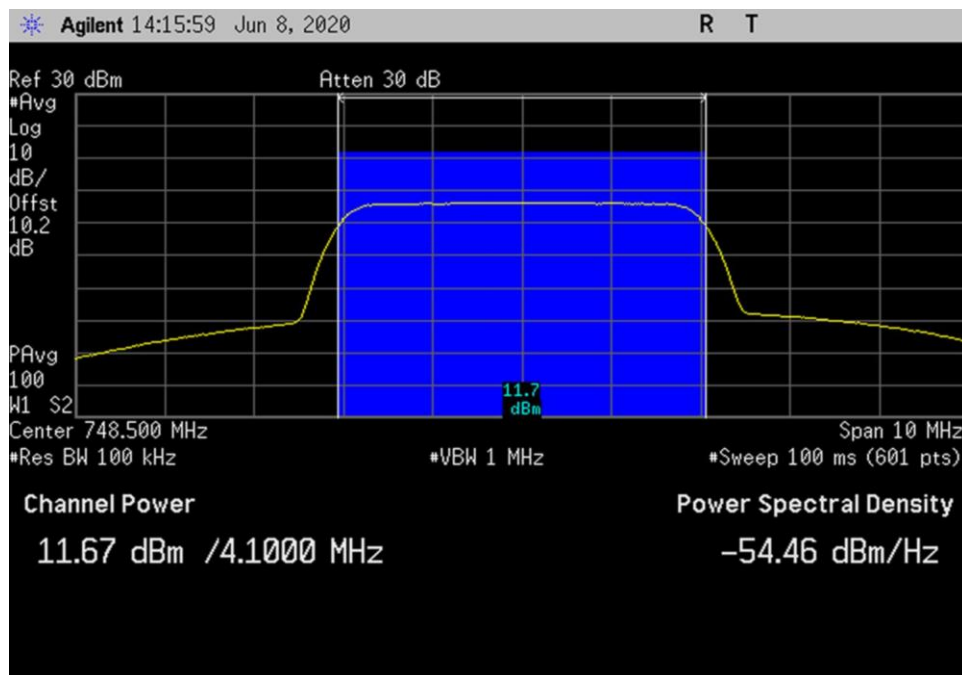
DL_728-746_AWGN_743.1MHz



DL_728-746_AWGN_Max_743.1MHz

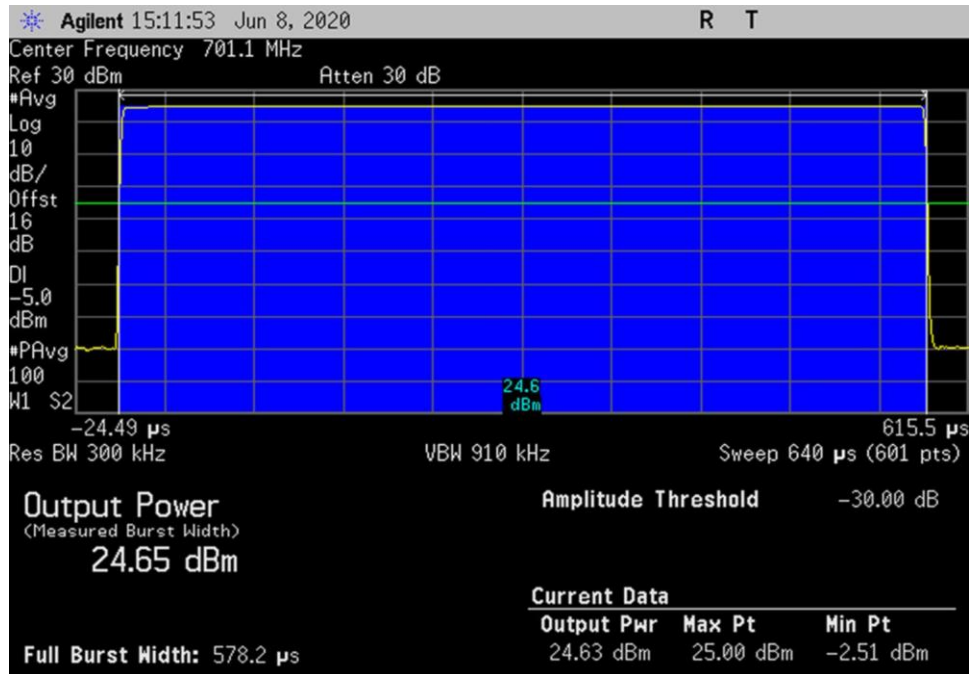


DL_746-757_AWGN_748.5MHz

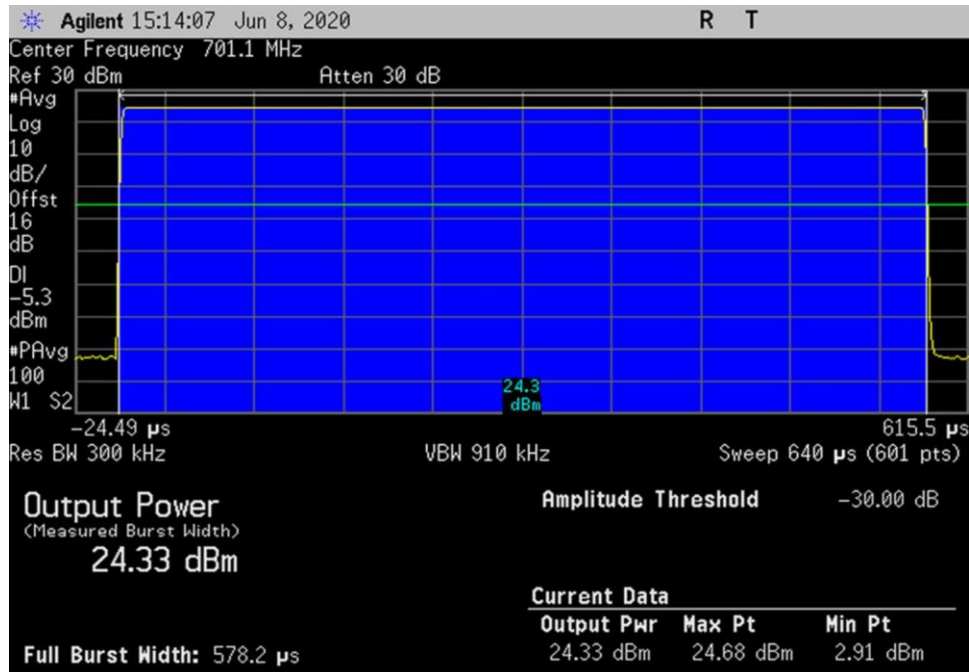


DL_746-757_AWGN_Max_748.5MHz

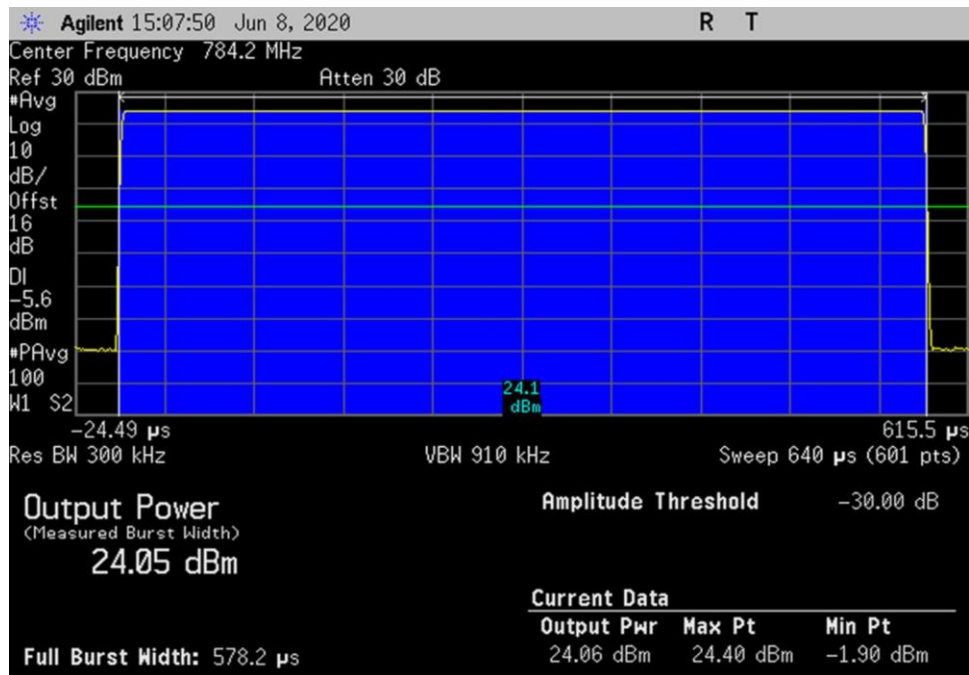
GSM



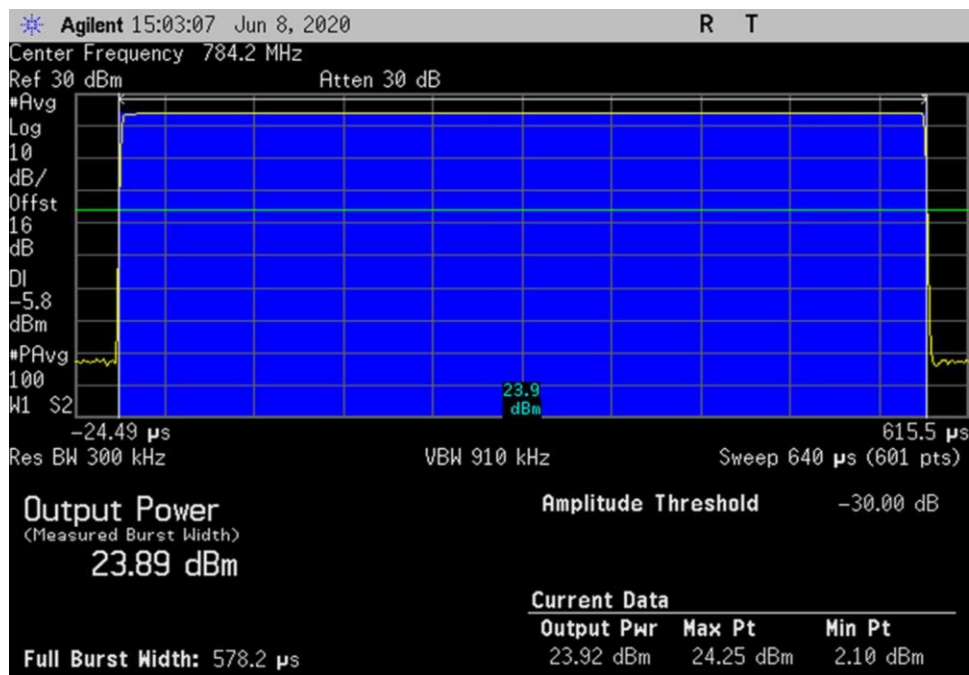
UL_698-716_GSM_701.1MHz



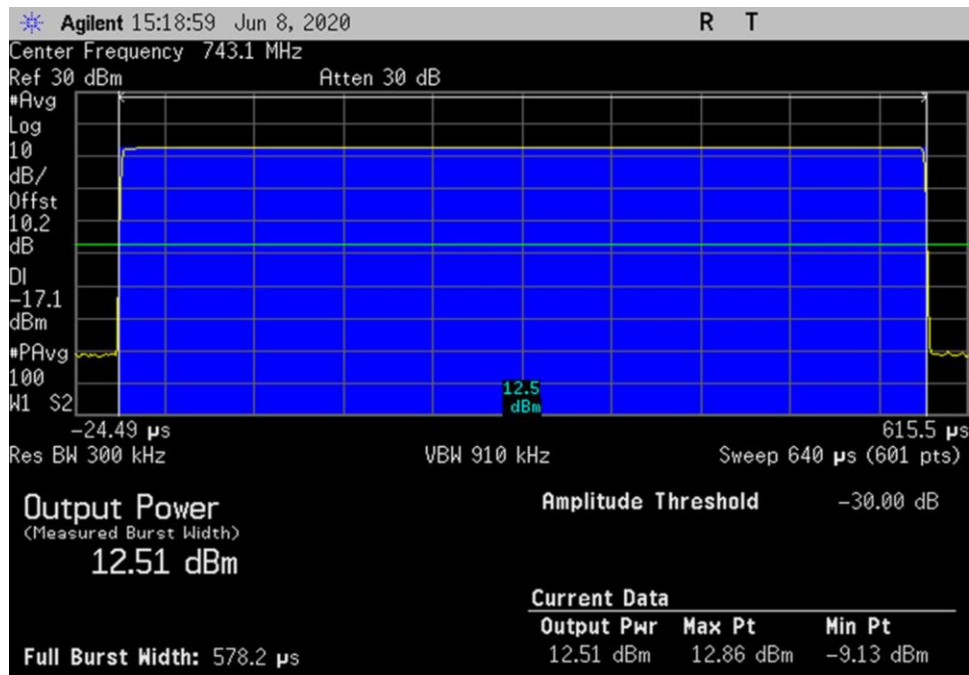
UL_698-716_GSM_Max_701.1MHz



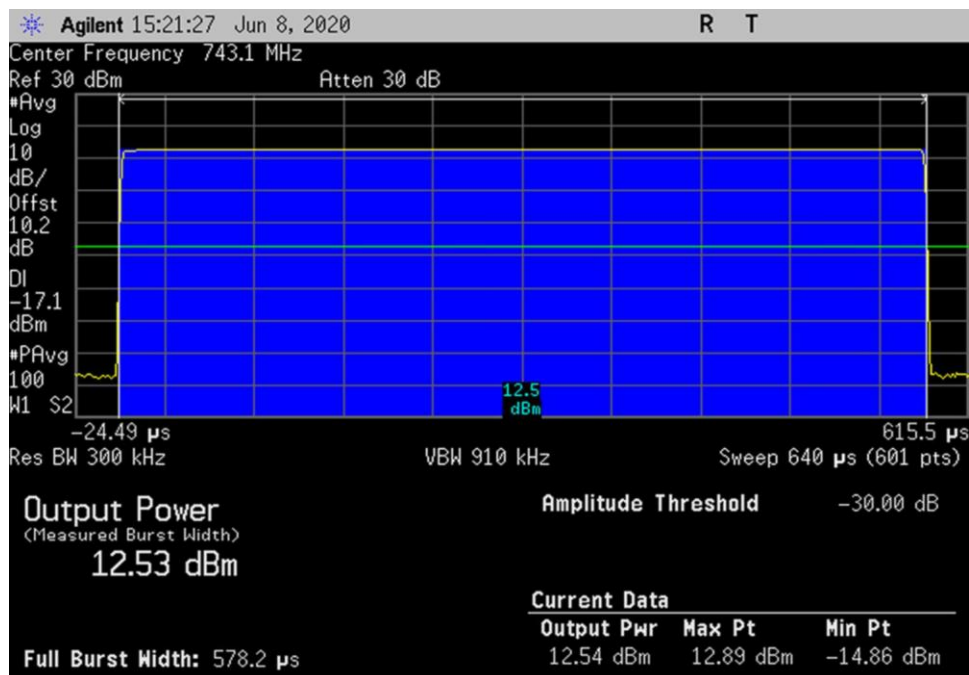
UL_776-787_GSM_ 784.2MHz



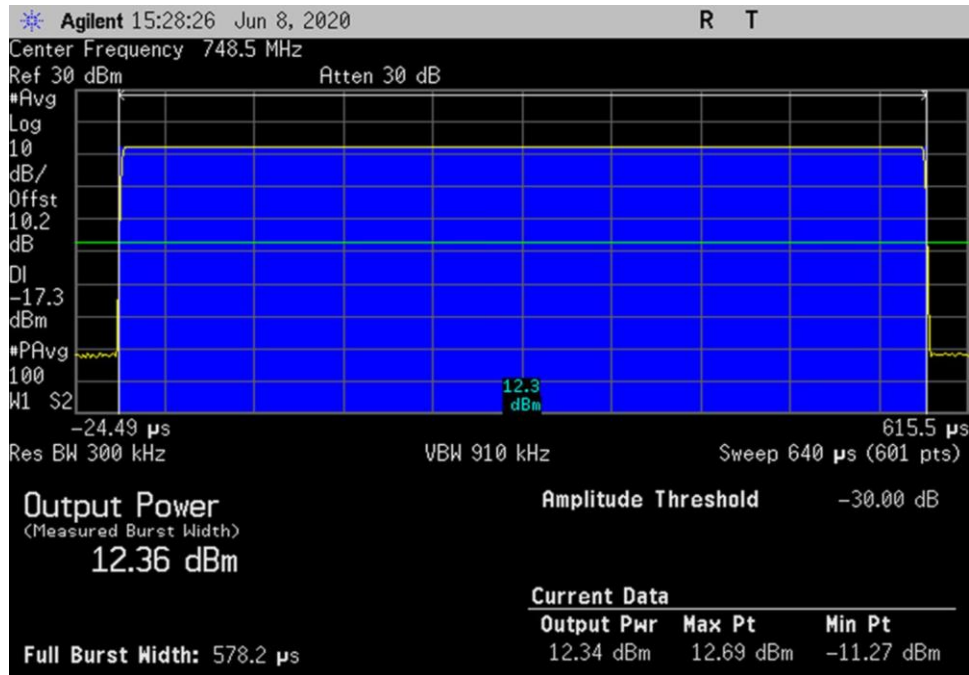
UL_776-787_GSM_Max_ 784.2MHz



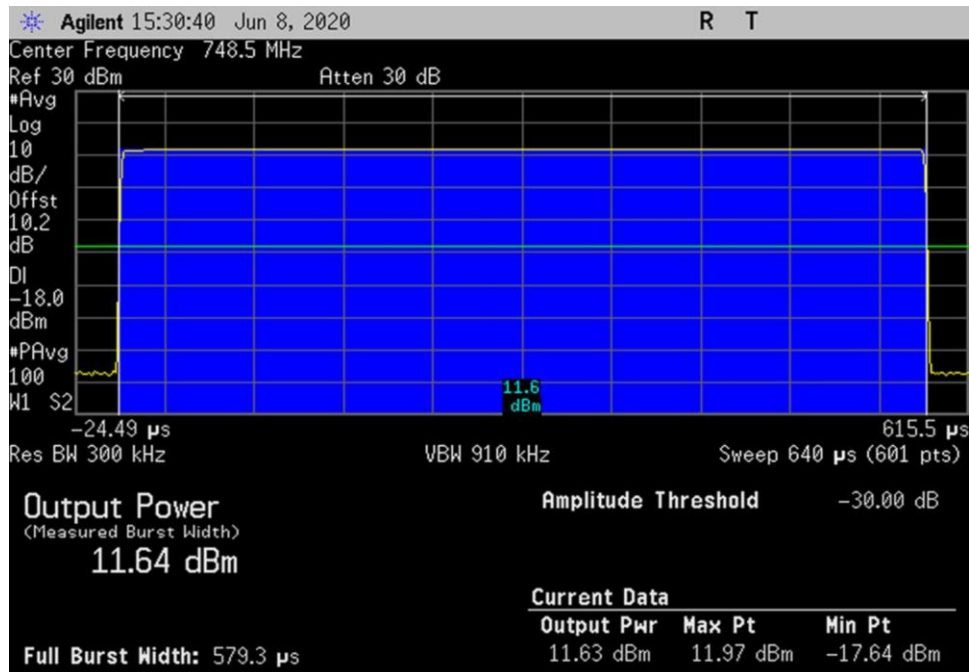
DL_728-746_GSM_ 743.1MHz



DL_728-746_GSM_Max_ 743.1MHz



DL_746-757_GSM_ 748.5MHz



DL_746-757_GSM_Max_ 748.5MHz

7.4 Intermodulation Product

Test Setup/Conditions

Test Location:	Fremont	Test Engineer:	E. Wu
Test Date(s):	6/9/2020		
Configuration:	1		
Test Setup:	See General Test Setup		

Environmental Conditions

Temperature (°C)	24.1	Relative Humidity (%):	47	Pressure: kPa	101.6
------------------	------	------------------------	----	---------------	-------

Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05411	Attenuator	Weinschel	54A-10	11/27/2019	11/27/2021
P07192	Cable	Astro	32022-29094K-29094K-48TC	11/27/2019	11/27/2021
03360	Cable	Astrolab	32022-2-29094-36TC	4/9/2020	4/9/2022
03418	Signal Generator	Agilent	E4438C	5/13/2019	5/13/2021
02660	Spectrum Analyzer	Agilent	E4446A	10/19/2018	10/19/2020
P06909	Attenuator	Pasternack	PE7083	1/7/2020	1/7/2022

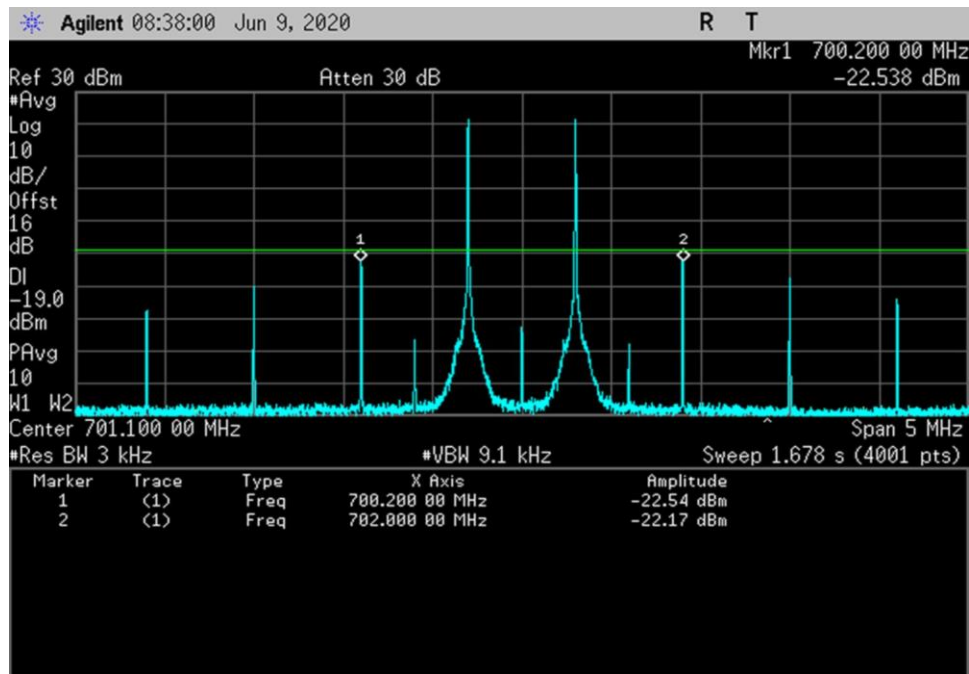
Summary of Results

Pass: As shown on the plots, all intermodulation product measured are below -19dbm limit.

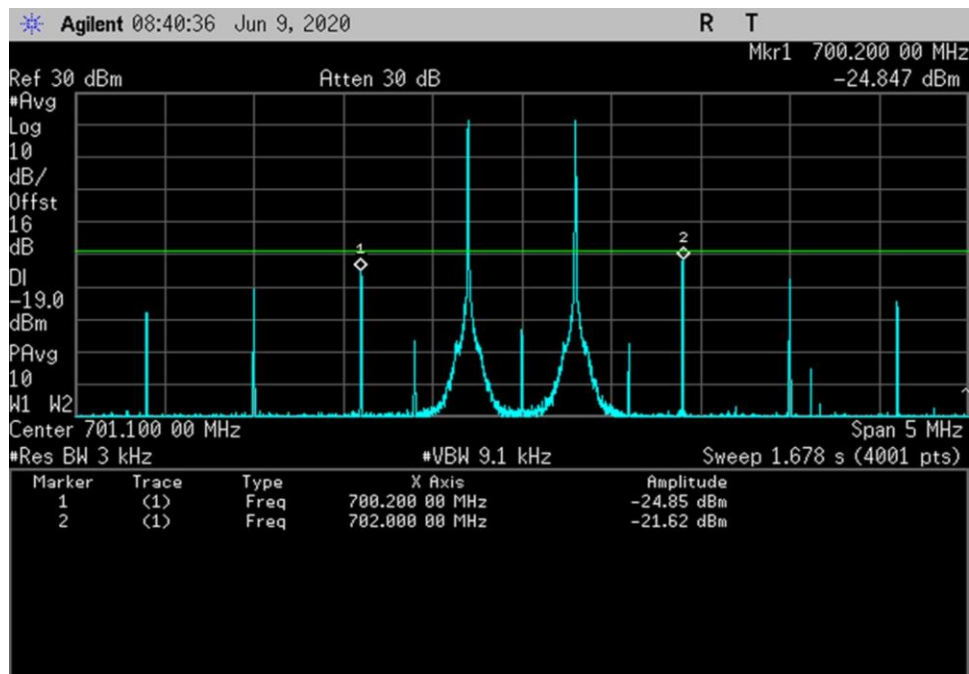
Inter Modulation Product			
Frequency* (MHz)	Pre AGC (dBm)	Limit (dBm)	Results
UL 698-716	-21.6	-19	PASS
UL 776-787	-19.2	-19	PASS
DL 728-746	-28.6	-19	PASS
DL 746-757	-28.3	-19	PASS

Note: The EUT maintains compliance with the intermodulation limit at input power of AGC+10dB

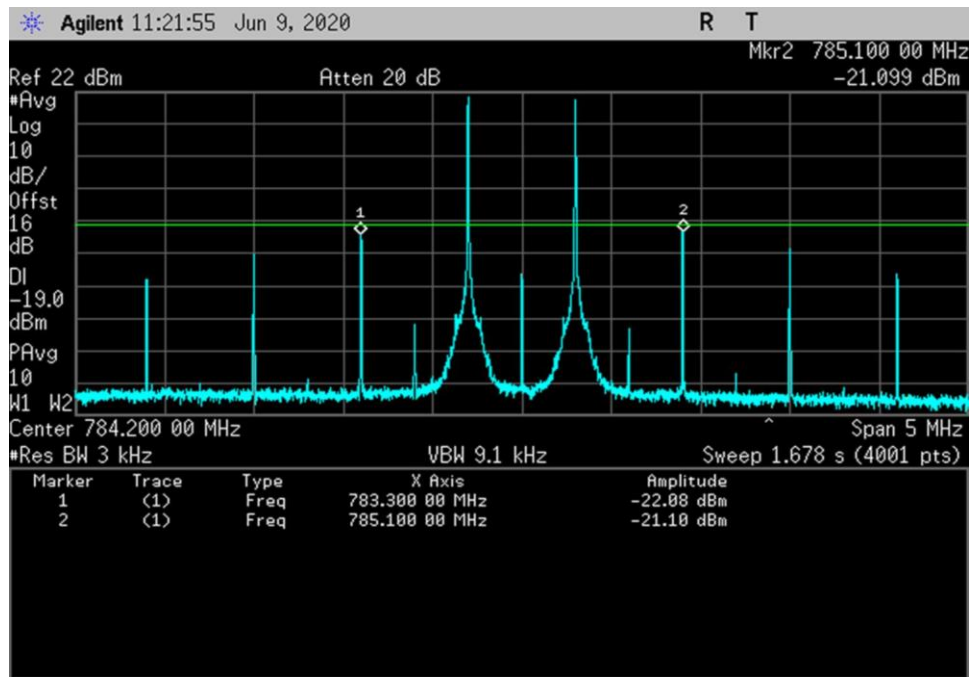
Plots



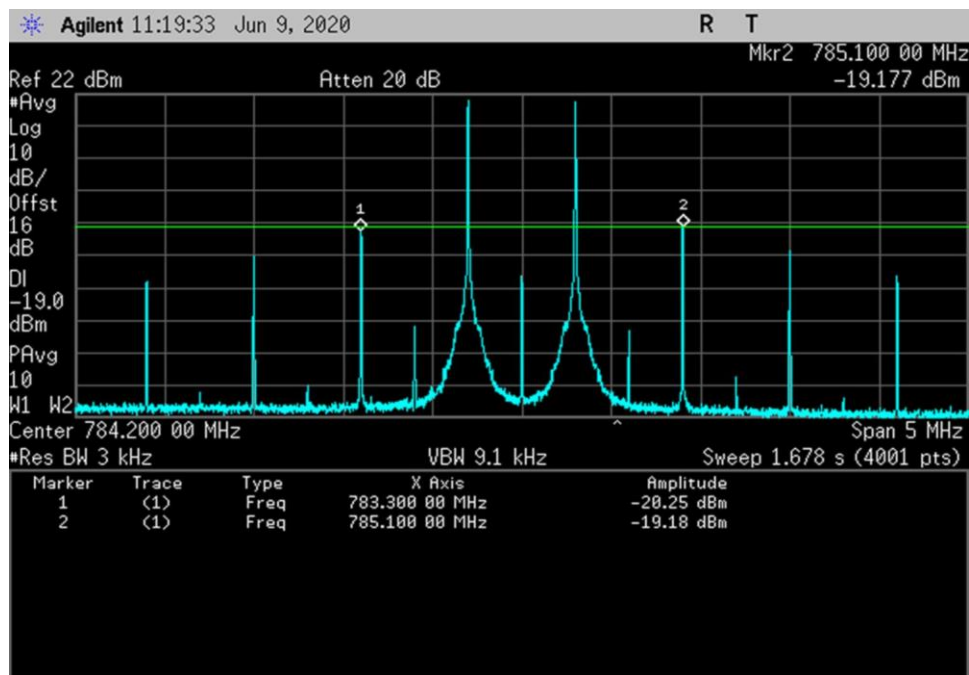
UL_698-716_701.1MHz



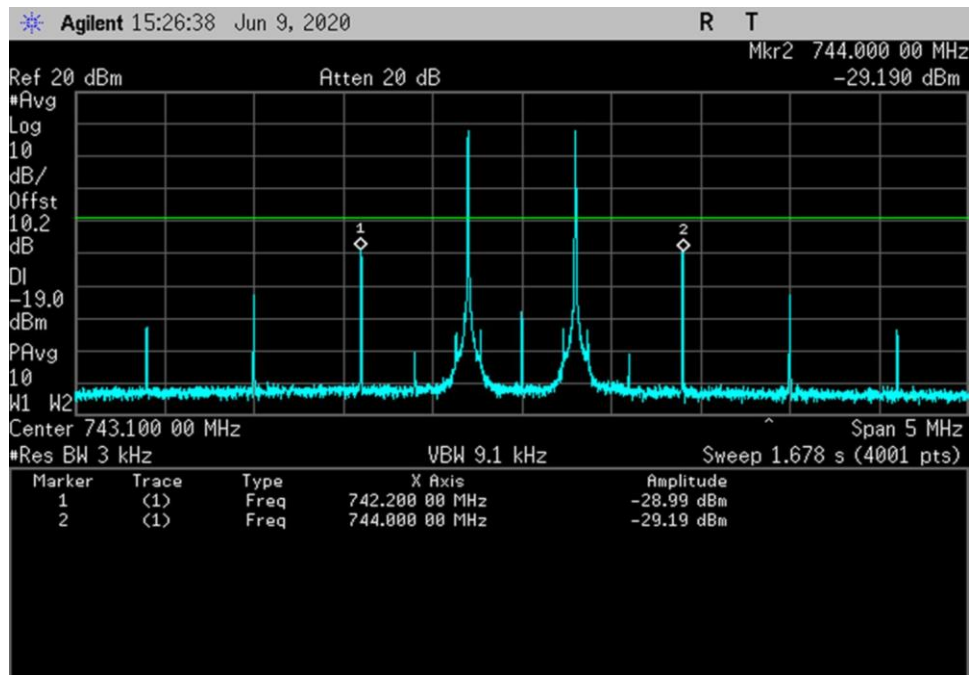
UL_698-716__+10dB_701.1MHz



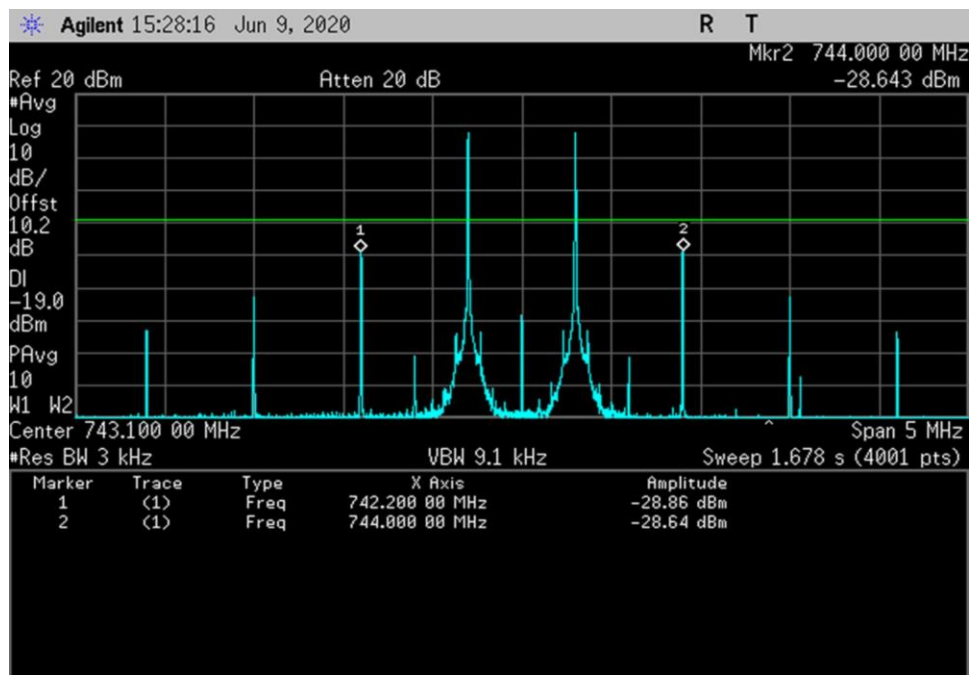
UL_776-787_ 784.2MHz



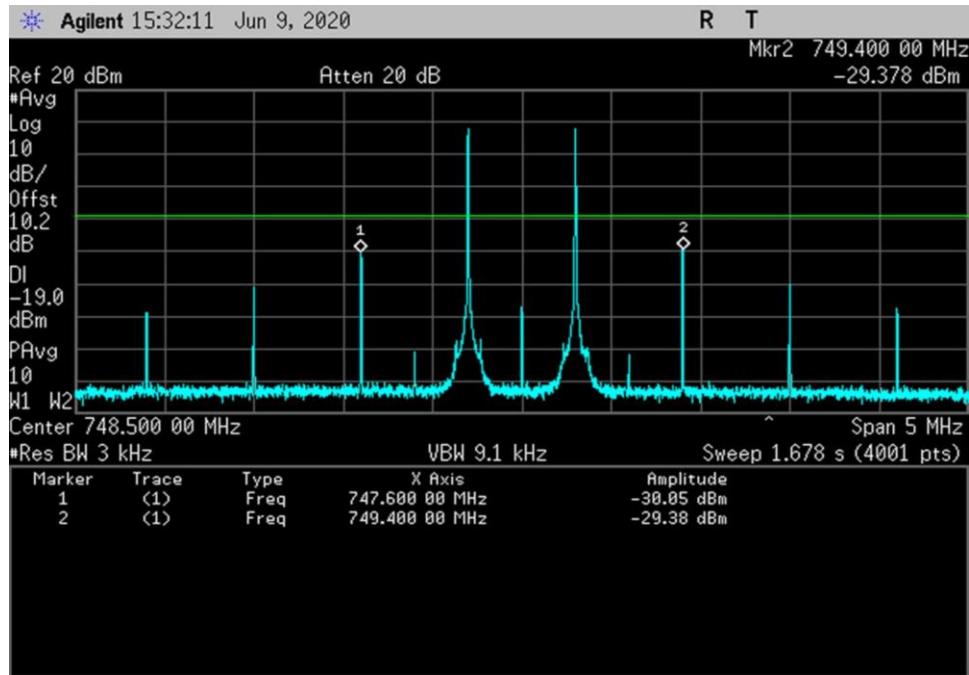
UL_776-787__+10dB_ 784.2MHz



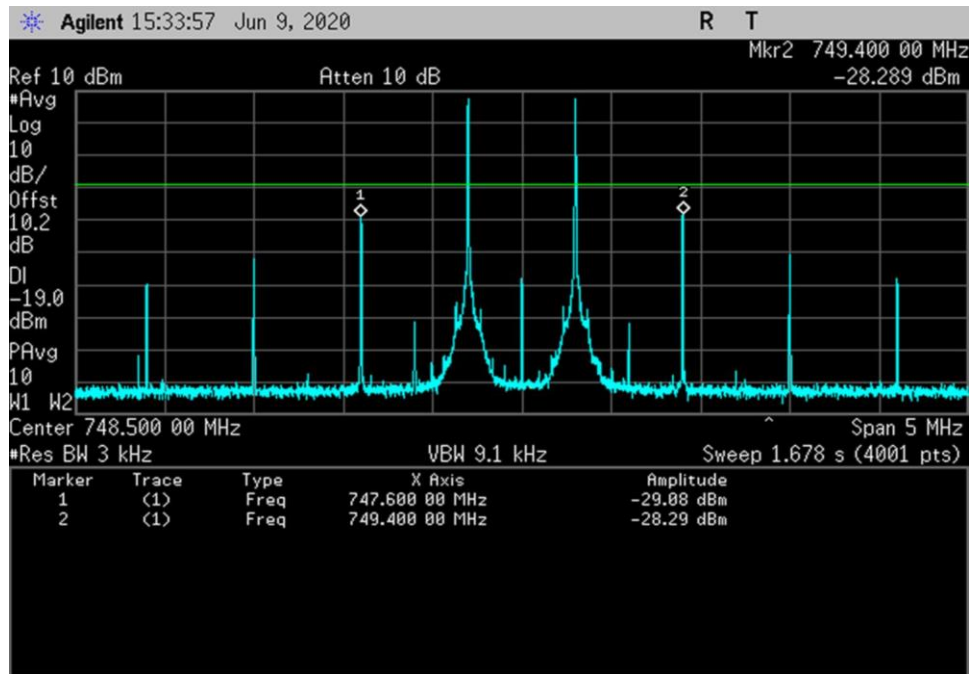
DL_728-746_ 743.1MHz



DL_728-746__+10dB_ 743.1MHz



DL_746-757_ 748.5MHz



DL_746-757__+10dB_ 748.5MHz

7.5 Out of Band Emissions

Test Setup/Conditions

Test Location:	Fremont	Test Engineer:	E. Wu
Test Date(s):	6/9/2020		
Configuration:	1		
Test Setup:	See General Test Setup		

Environmental Conditions

Temperature (°C)	24.1	Relative Humidity (%):	47	Pressure: kPa	101.6
------------------	------	------------------------	----	---------------	-------

Test Equipment

Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05411	Attenuator	Weinschel	54A-10	11/27/2019	11/27/2021
P07192	Cable	Astro	32022-29094K-29094K-48TC	11/27/2019	11/27/2021
03360	Cable	Astrolab	32022-2-29094-36TC	4/9/2020	4/9/2022
03418	Signal Generator	Agilent	E4438C	5/13/2019	5/13/2021
02660	Spectrum Analyzer	Agilent	E4446A	10/19/2018	10/19/2020
P06909	Attenuator	Pasternack	PE7083	1/7/2020	1/7/2022

Summary of Results

Pass: as indicated in plots above, all OBE are under the limit of -19dBm.

GSM

Low				High			
Out of Band Emission				Out of Band Emission			
Frequency (MHz)	Pre AGC	Limit (dBm)	Results	Frequency (MHz)	Pre AGC	Limit (dBm)	Results
UL 698-716	-19.8	-19	PASS	UL 698-716	-22.3	-19	PASS
UL 776-787	-19.8	-19	PASS	UL 776-787	-21	-19	PASS
DL:728-746	-32.3	-19	PASS	DL:728-746	-32.5	-19	PASS
DL 746-757	-33.1	-19	PASS	DL 746-757	-32.4	-19	PASS

CDMA (alternative 1.25 MHz AWGN)

Low				High			
Out of Band Emission				Out of Band Emission			
Frequency (MHz)	Pre AGC	Limit (dBm)	Results	Frequency (MHz)	Pre AGC	Limit (dBm)	Results
UL 698-716	-27.2	-19	PASS	UL 698-716	-26.1	-19	PASS
UL776-787	-35.7	-19	PASS	UL776-787	-35.6	-19	PASS
DL:728-746	-48.6	-19	PASS	DL:728-746	-46.4	-19	PASS
DL 746-757	-47.4	-19	PASS	DL 746-757	-46.7	-19	PASS

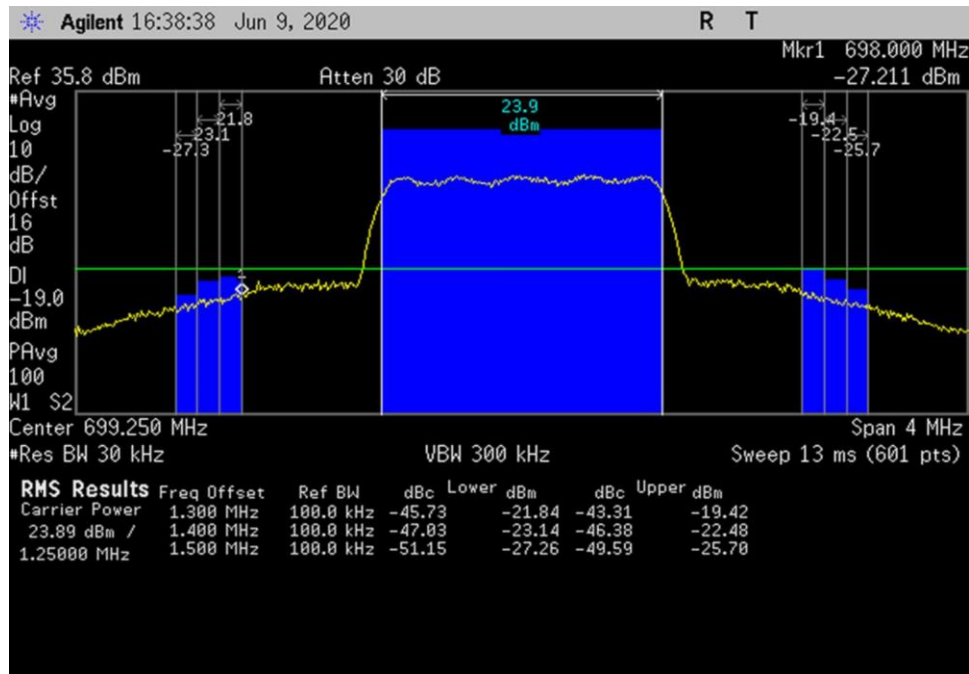
LTE (alternative 4.1MHz AWGN)

Low				High			
Out of Band Emission				Out of Band Emission			
Frequency (MHz)	Pre AGC	Limit (dBm)	Results	Frequency (MHz)	Pre AGC	Limit (dBm)	Results
UL 698-716	-27.3	-19	PASS	UL 698-716	-28.1	-19	PASS
UL776-787	-28.3	-19	PASS	UL776-787	-31	-19	PASS
DL:728-746	-38.4	-19	PASS	DL:728-746	-39.9	-19	PASS
DL 746-757	-39.2	-19	PASS	DL 746-757	-37.5	-19	PASS

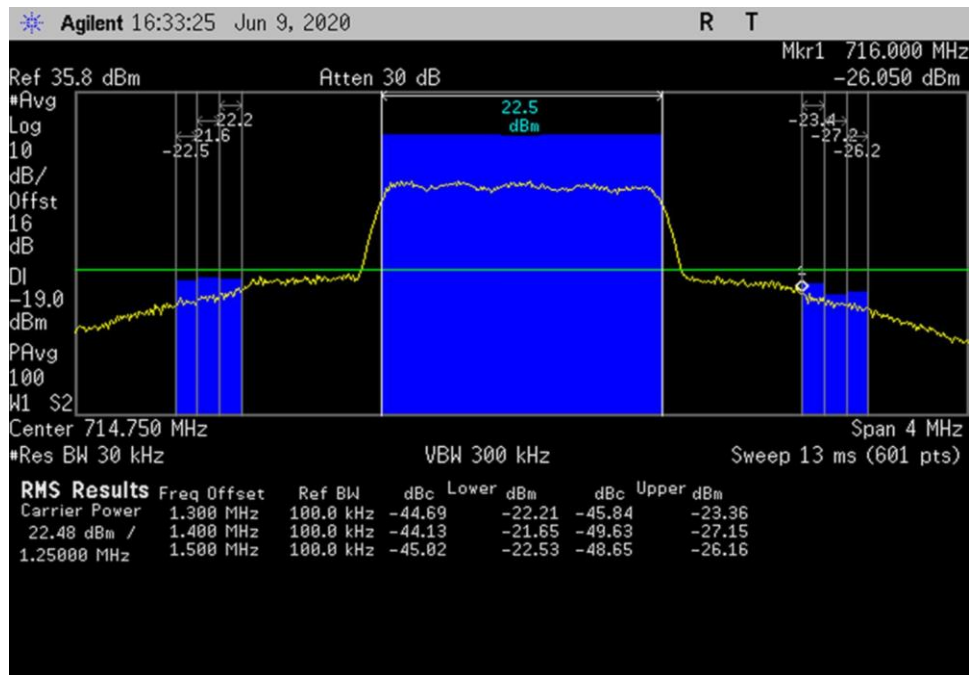
Note: The EUT also maintains compliance with the out-of-band emissions limit at input power indicated in section 5.5.

Plots

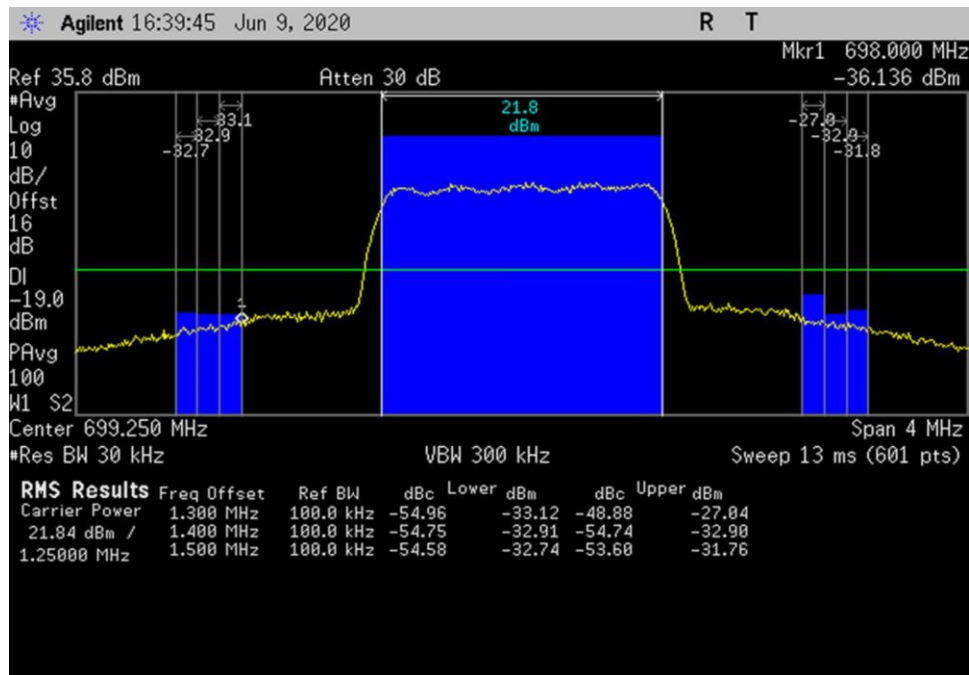
CDMA



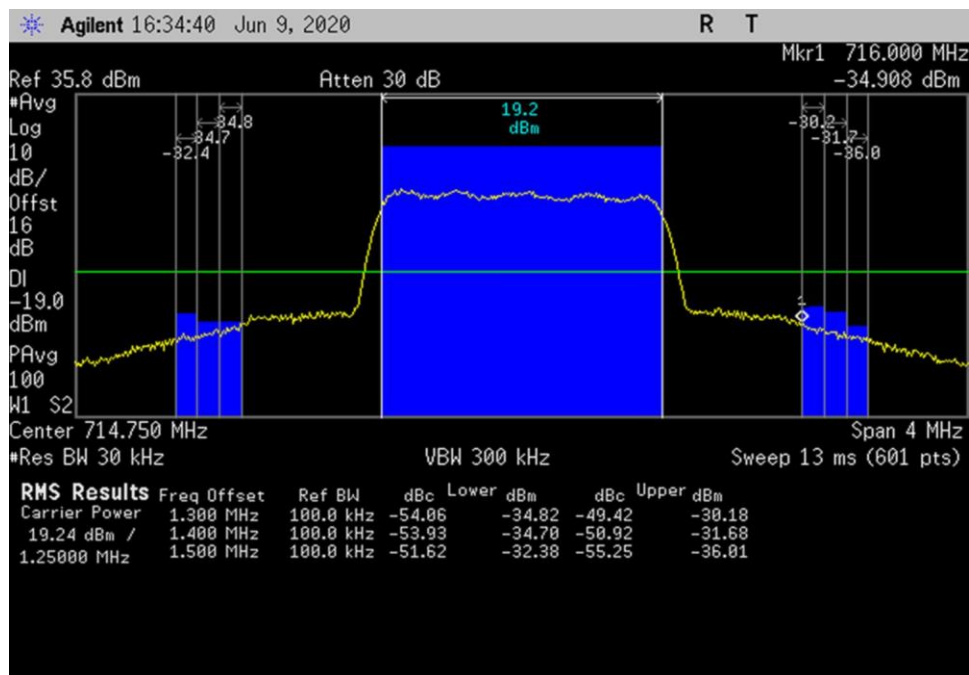
UL_698-716_CDMA_697.25- 701.25MHz



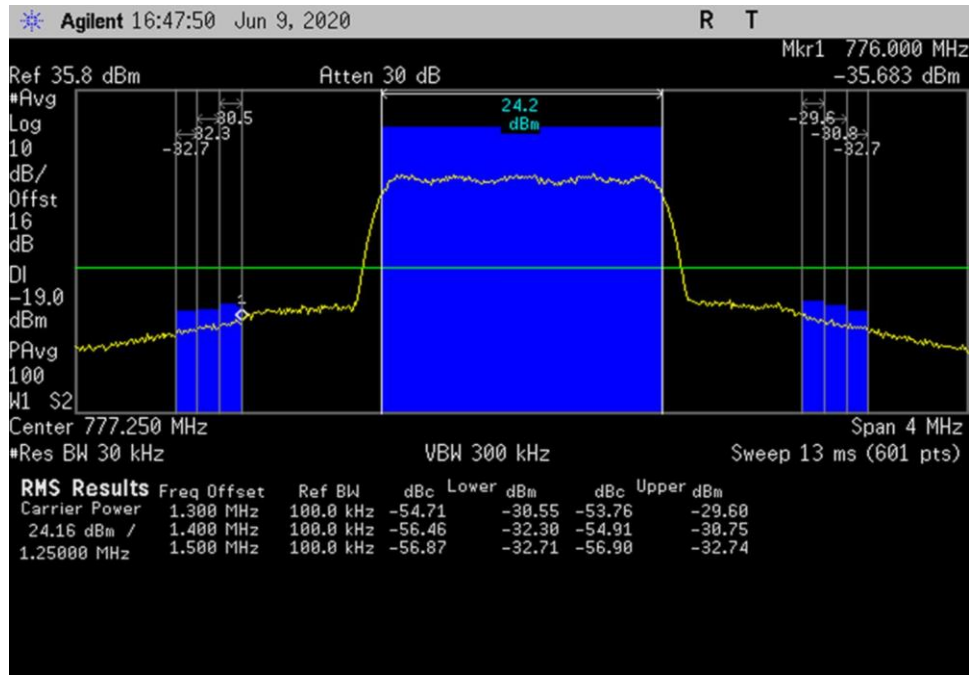
UL_698-716_CDMA_712.75- 716.75MHz



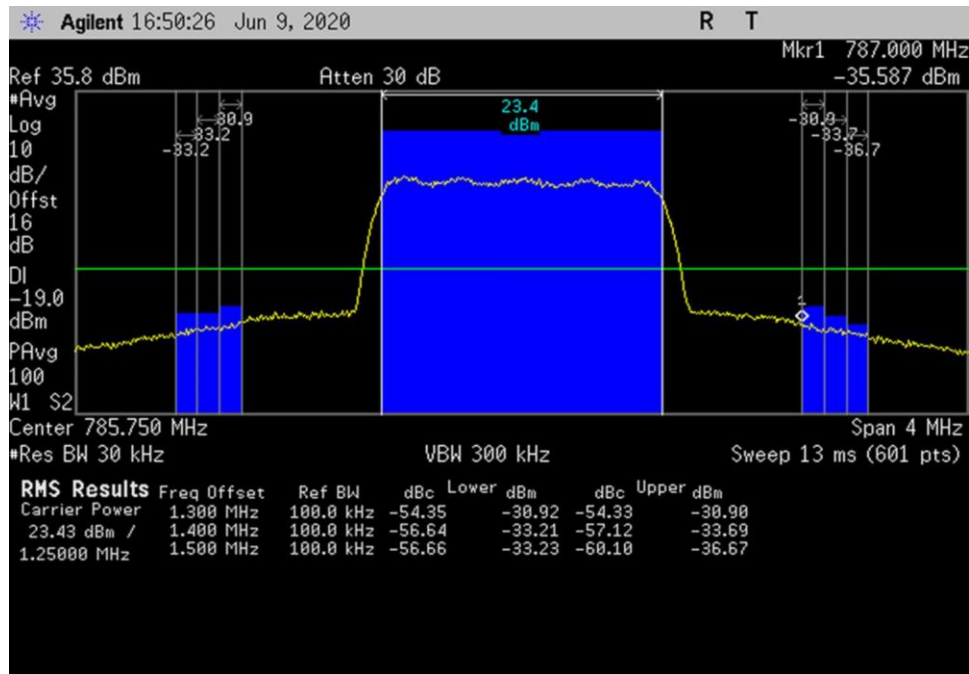
UL_698-716_CDMA_Max_ 697.25- 701.25MHz



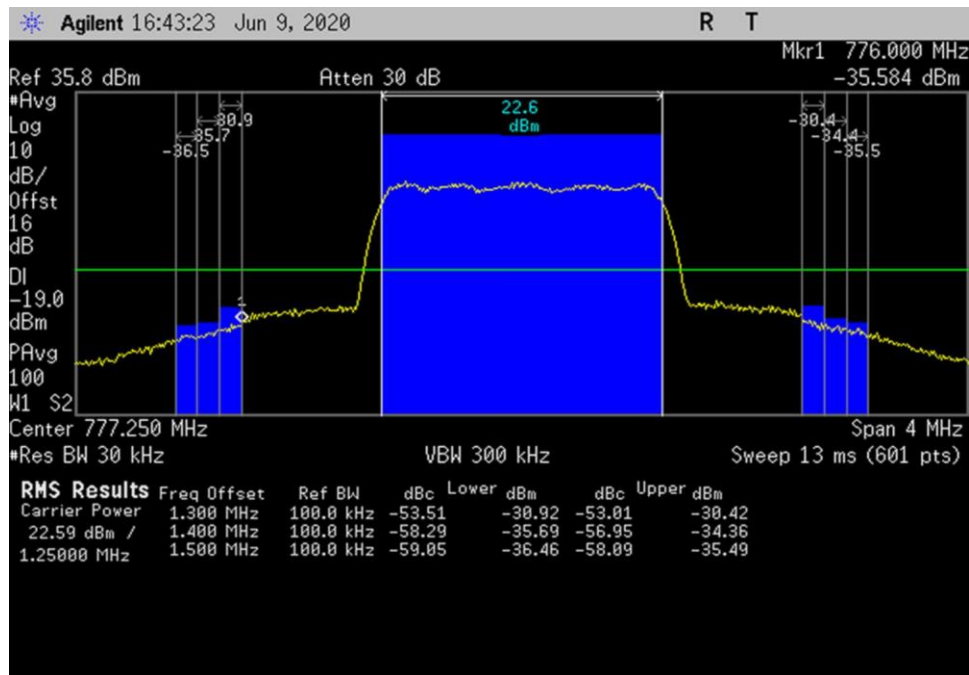
UL_698-716_CDMA_Max_ 712.75- 716.75MHz



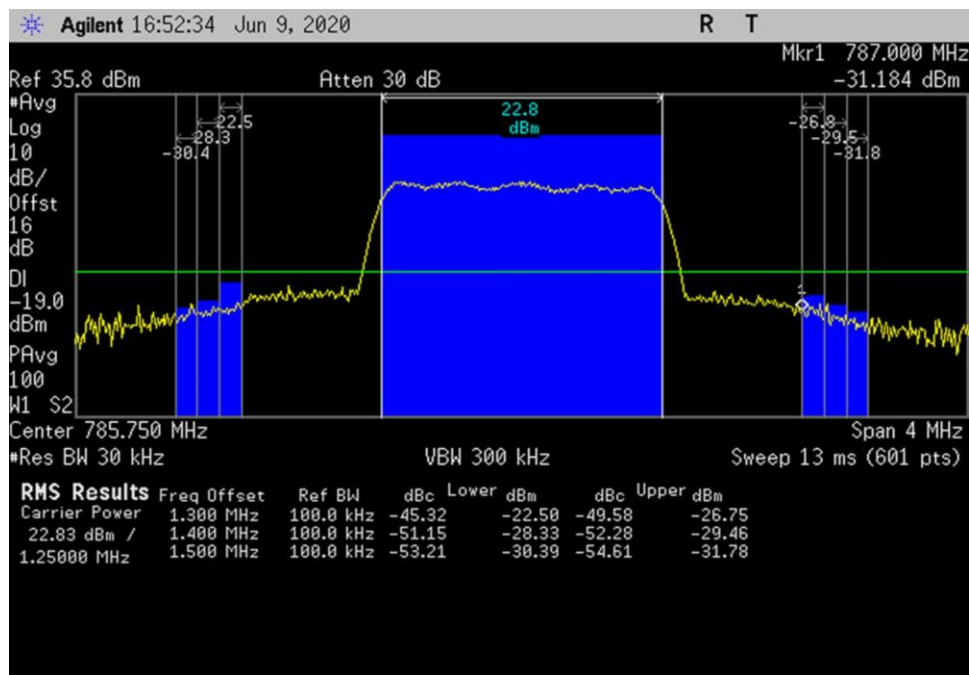
UL_776-787_CDMA_775.25- 779.25MHz



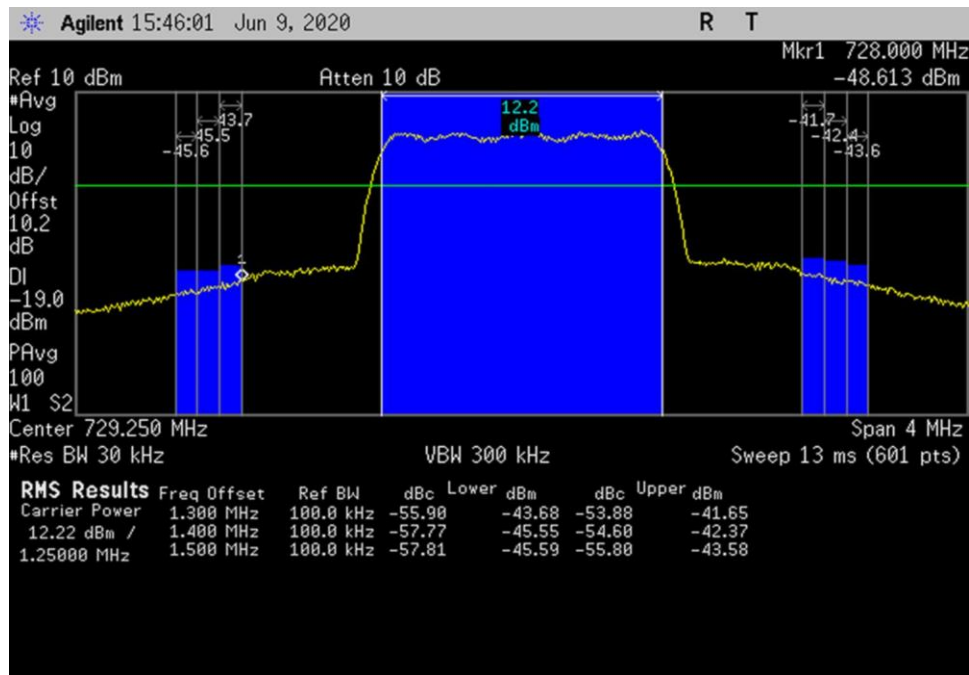
UL_776-787_CDMA_783.75- 787.75MHz



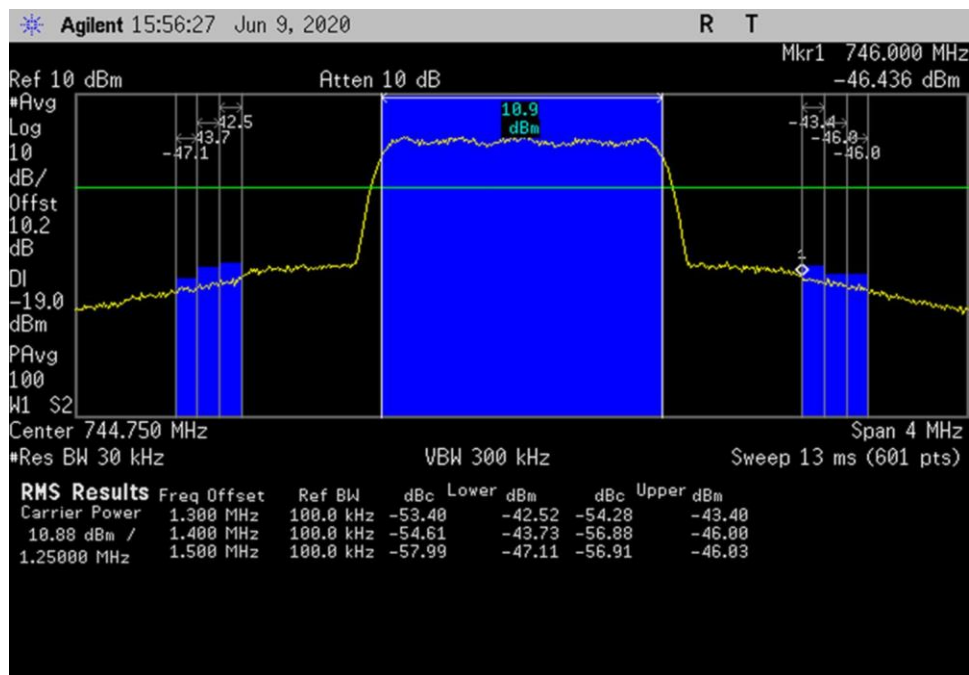
UL_776-787_CDMA_Max_ 775.25- 779.25MHz



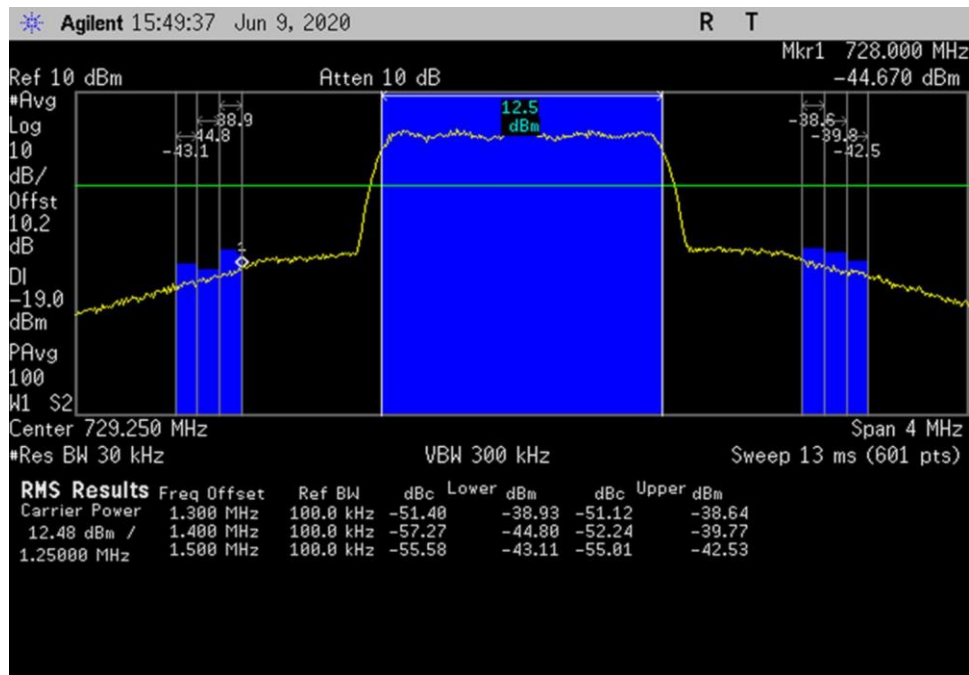
UL_776-787_CDMA_Max_ 783.75- 787.75MHz



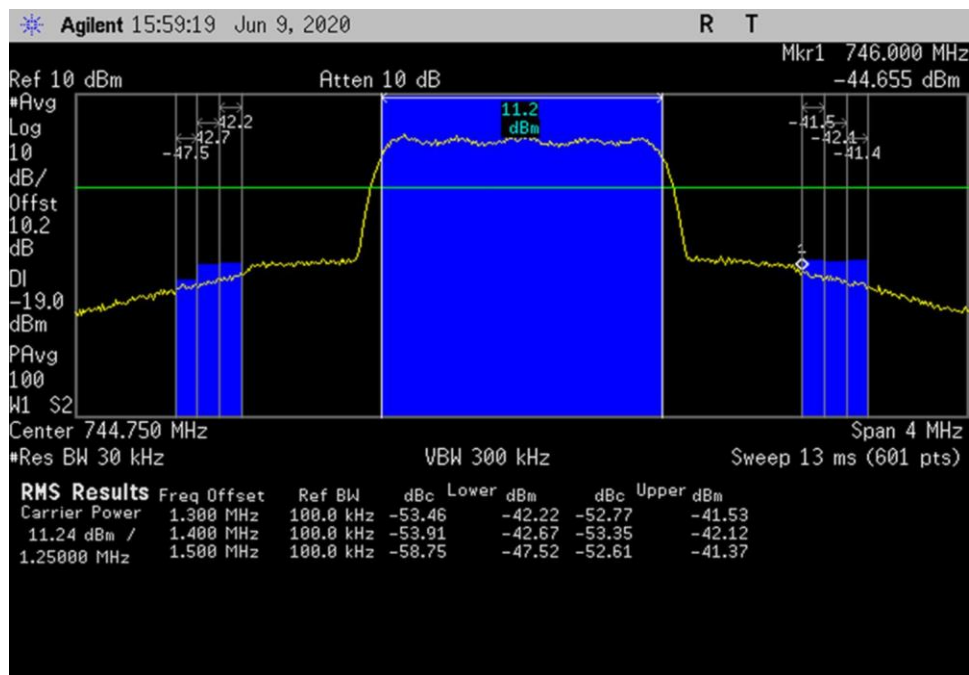
DL_728-746_CDMA_727.25-731.25MHz



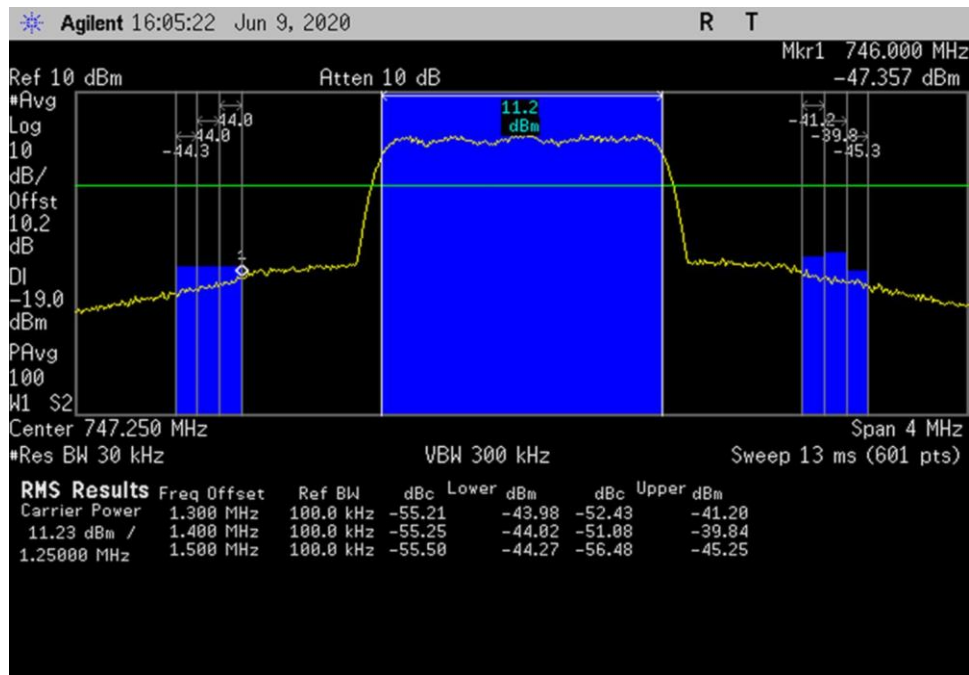
DL_728-746_CDMA_742.75-746.75MHz



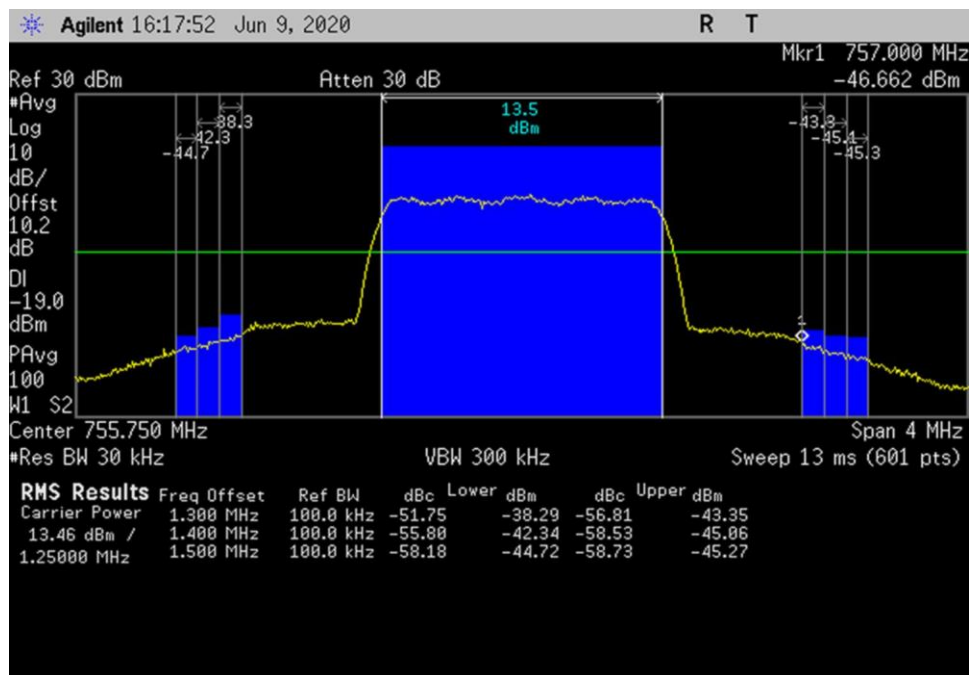
DL_728-746_CDMA_Max_ 727.25- 731.25MHz



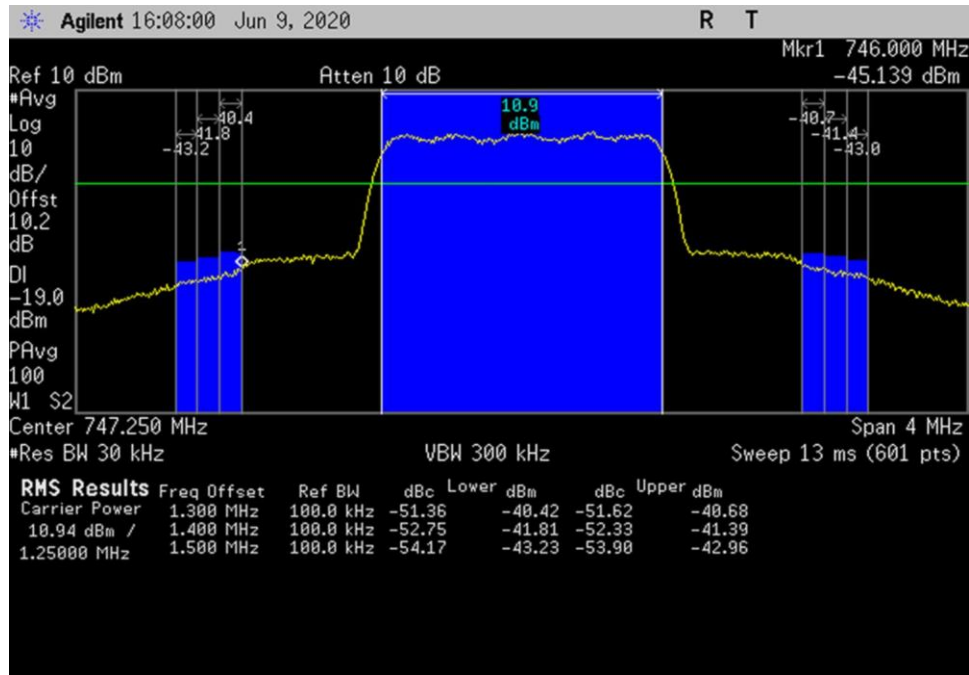
DL_728-746_CDMA_Max_ 742.75- 746.75MHz



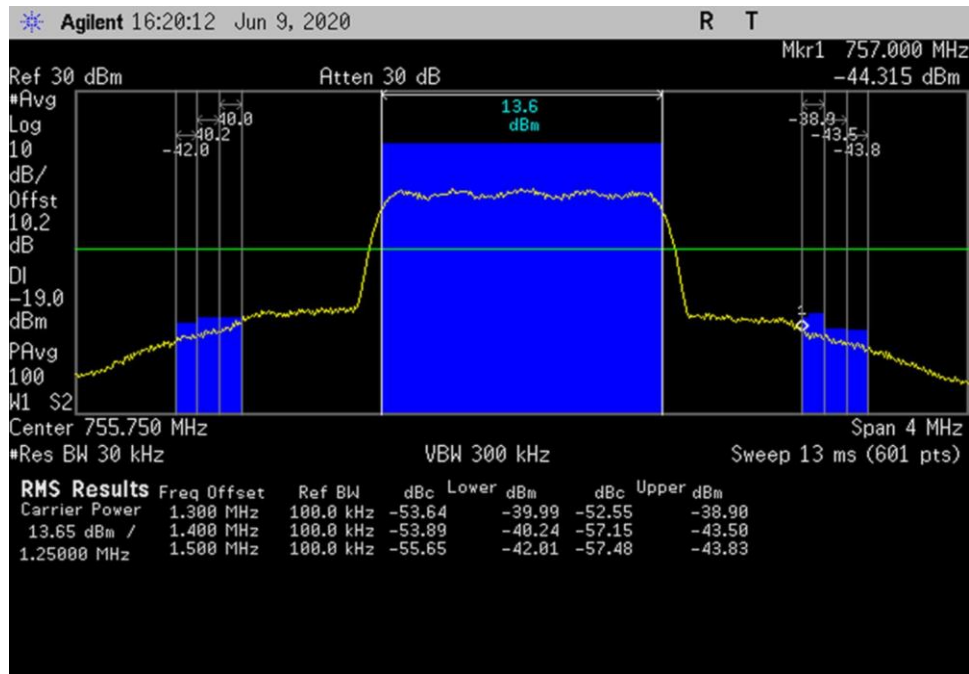
DL_746-757_CDMA_745.25-749.25MHz



DL_746-757_CDMA_753.75-757.75MHz

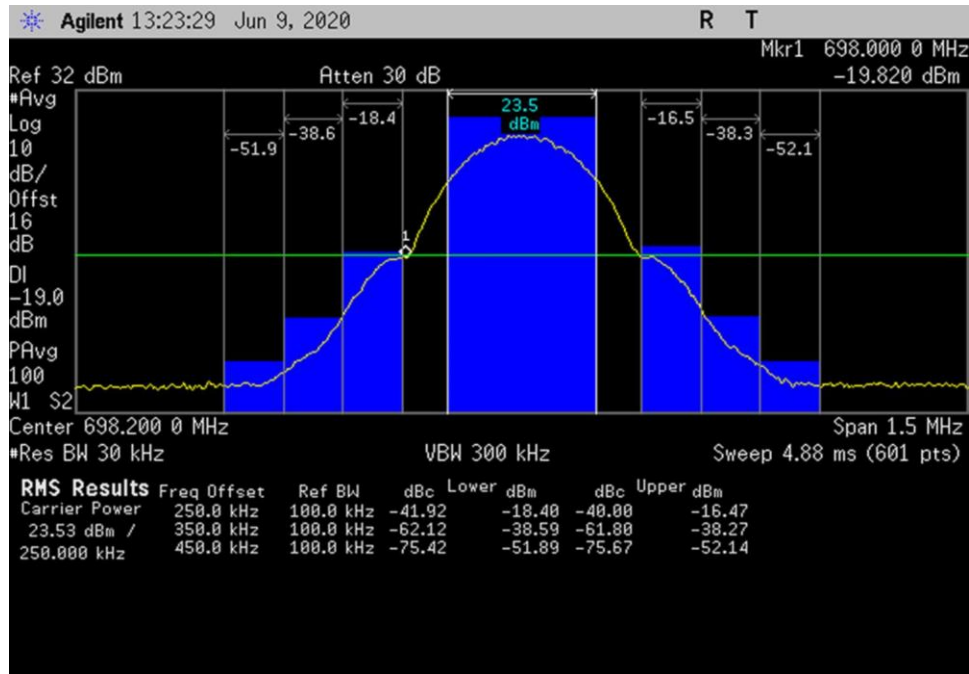


DL_746-757_CDMA_Max_ 745.25- 749.25MHz

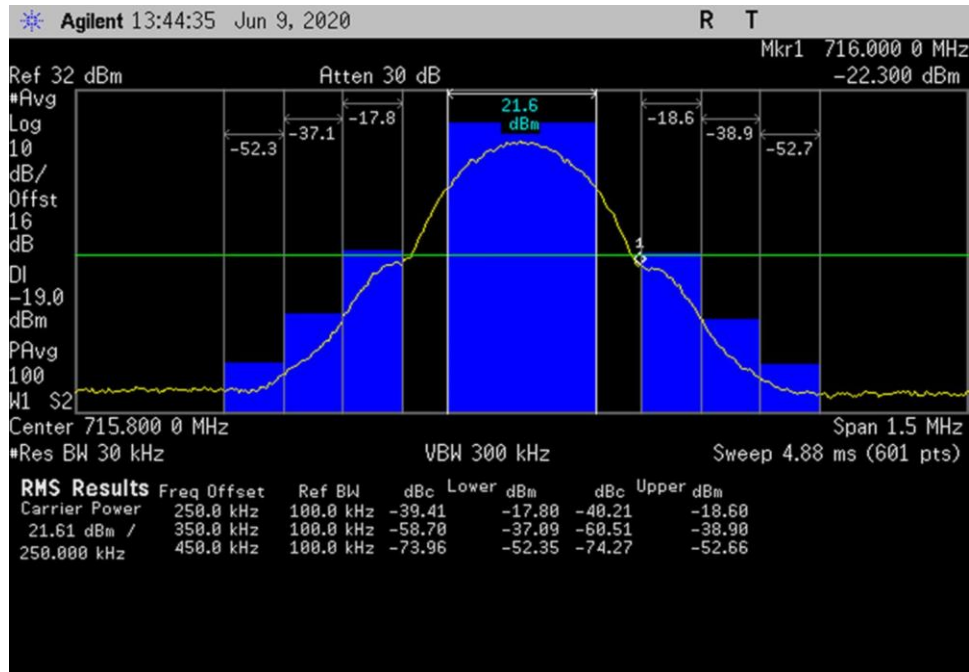


DL_746-757_CDMA_Max_ 753.75- 757.75MHz

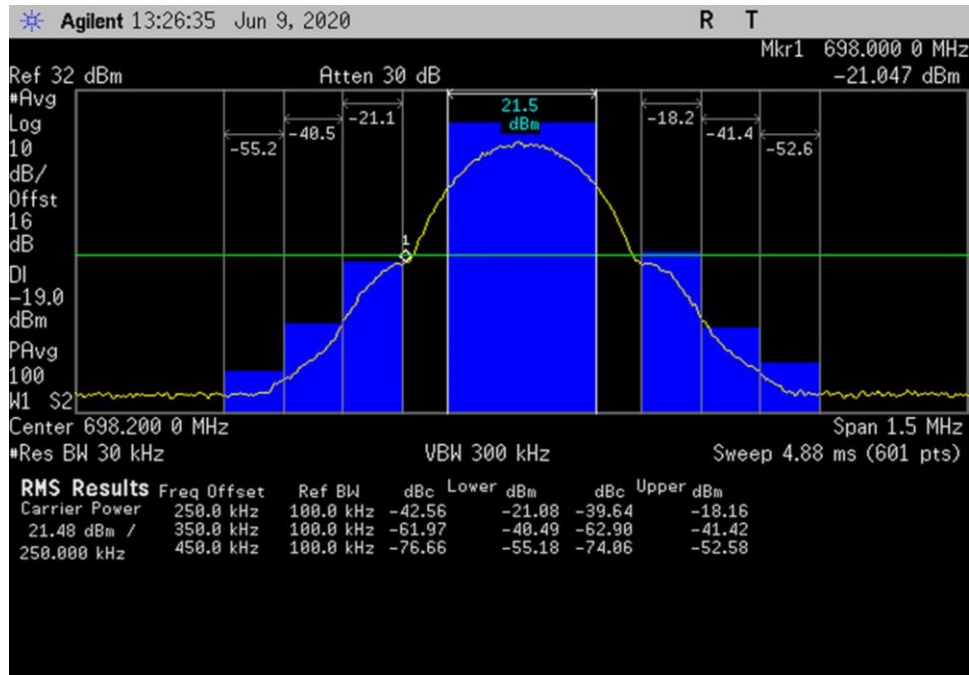
GSM



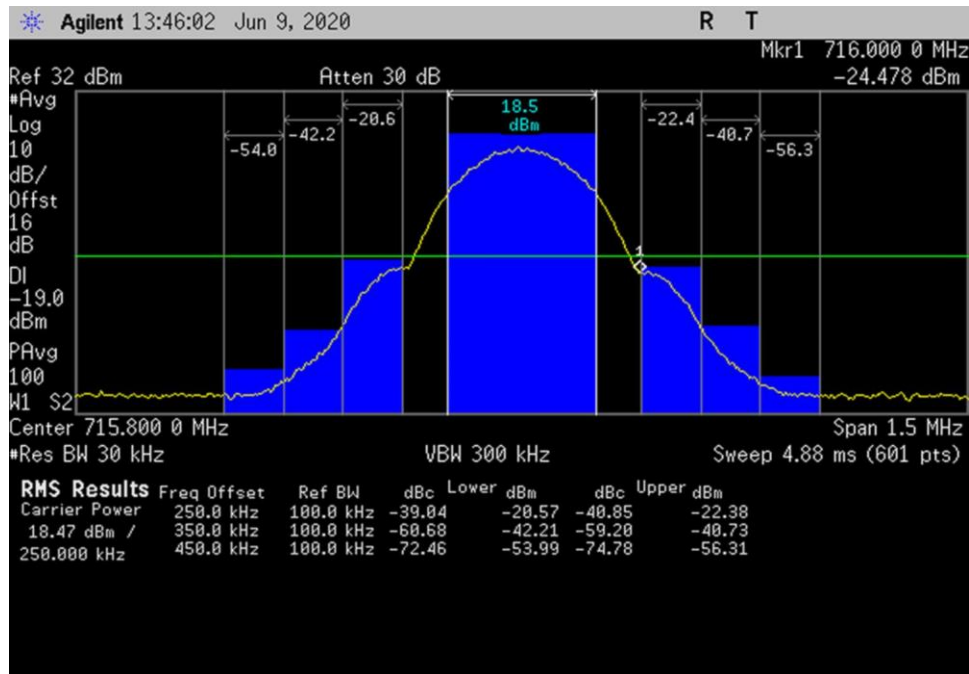
UL_698-716_GSM_ 697.45- 698.95MHz



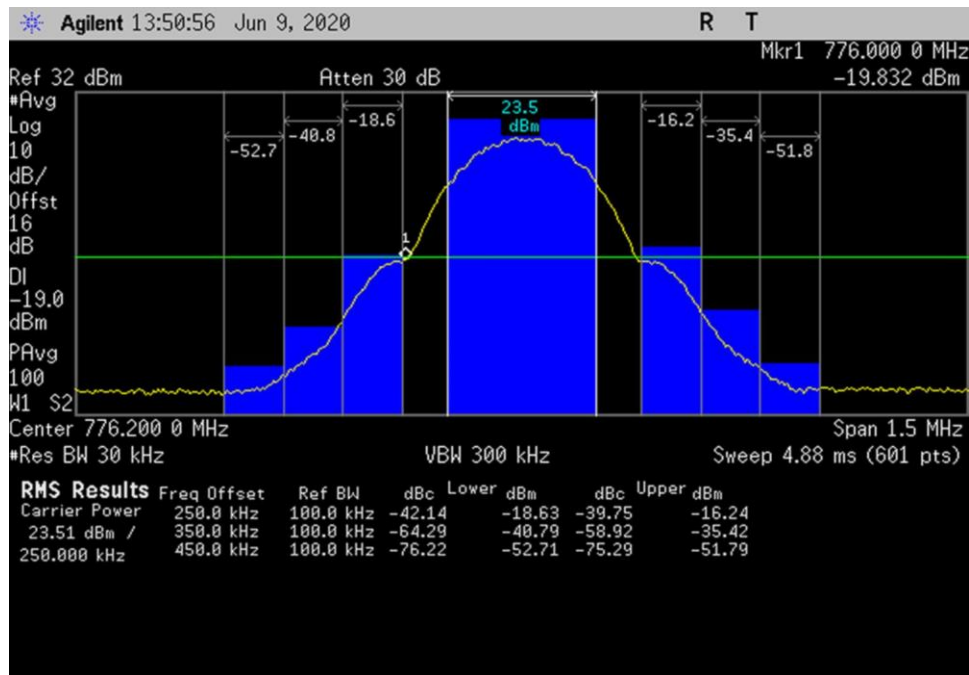
UL_698-716_GSM_ 715.05- 716.55MHz



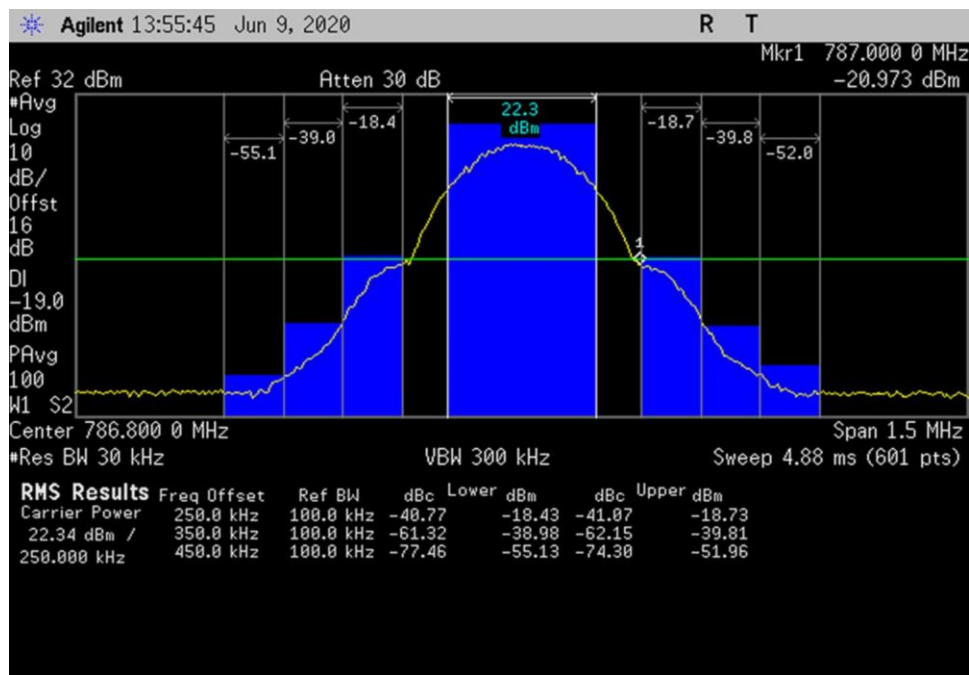
UL_698-716_GSM_Max_ 697.45- 698.95MHz



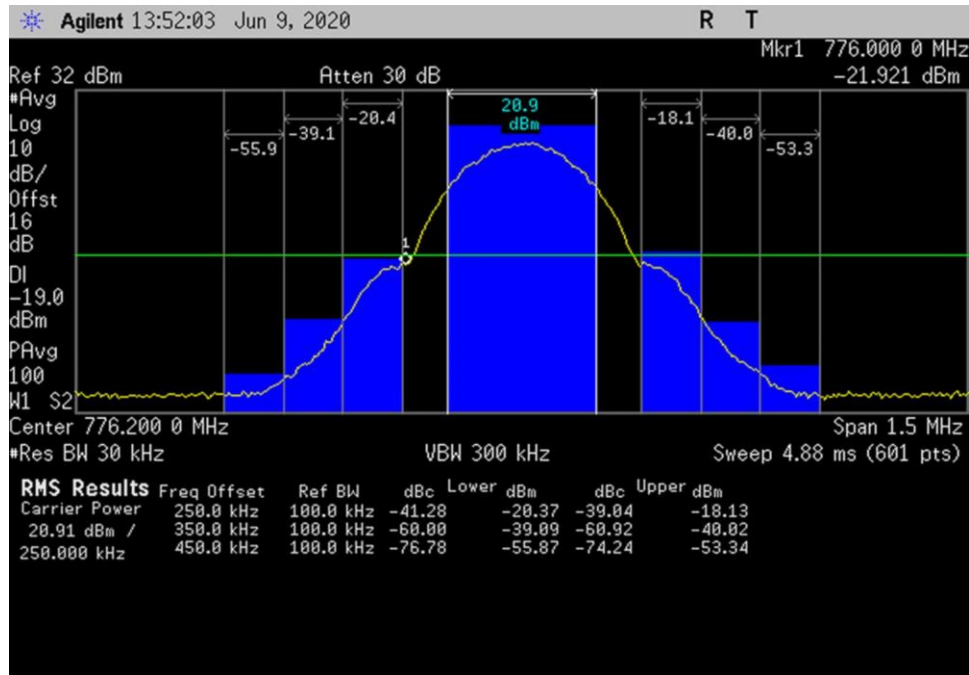
UL_698-716_GSM_Max_ 715.05- 716.55MHz



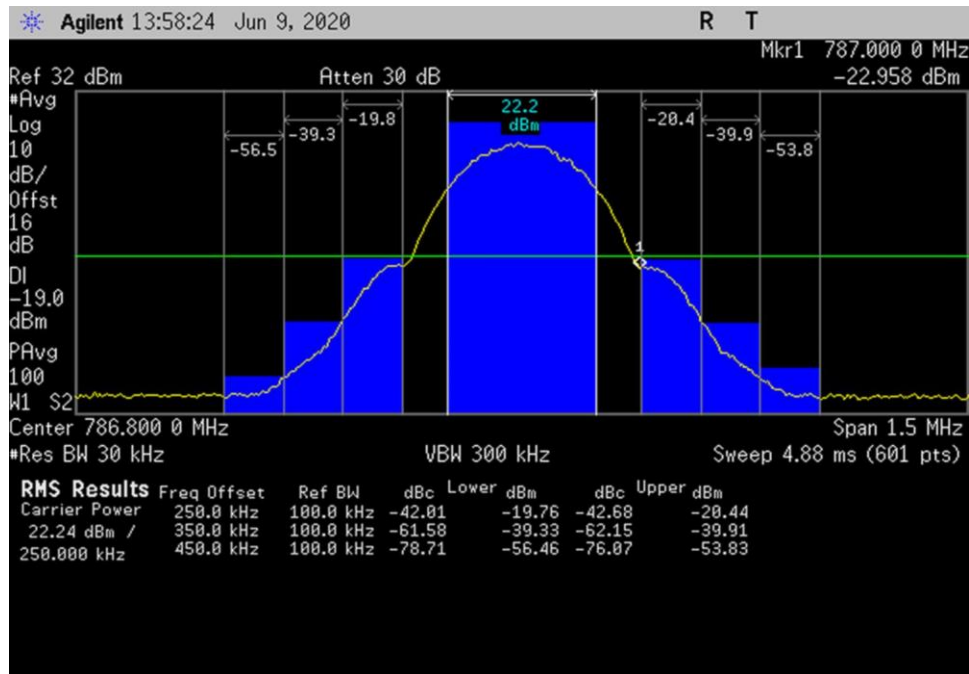
UL_776-787_GSM_775.45-776.95MHz



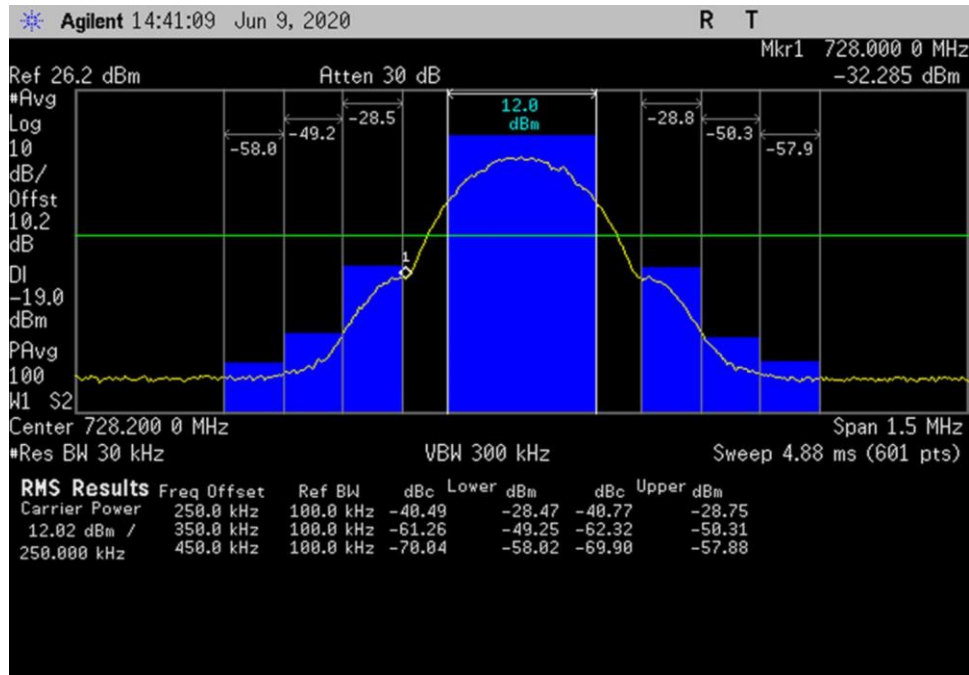
UL_776-787_GSM_786.05-787.55MHz



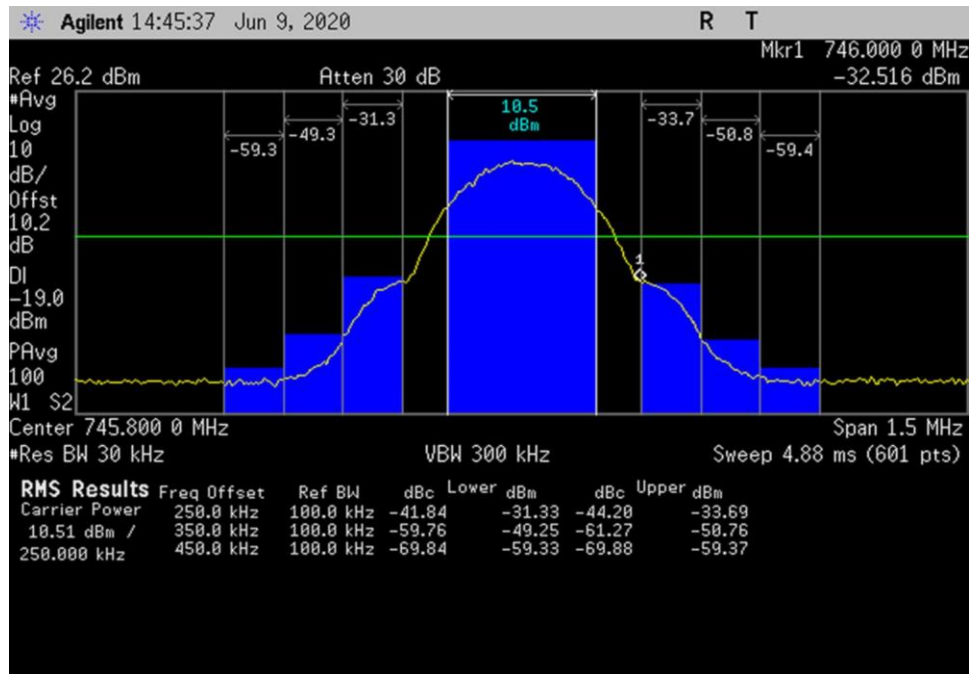
UL_776-787_GSM_Max_ 775.45- 776.95MHz



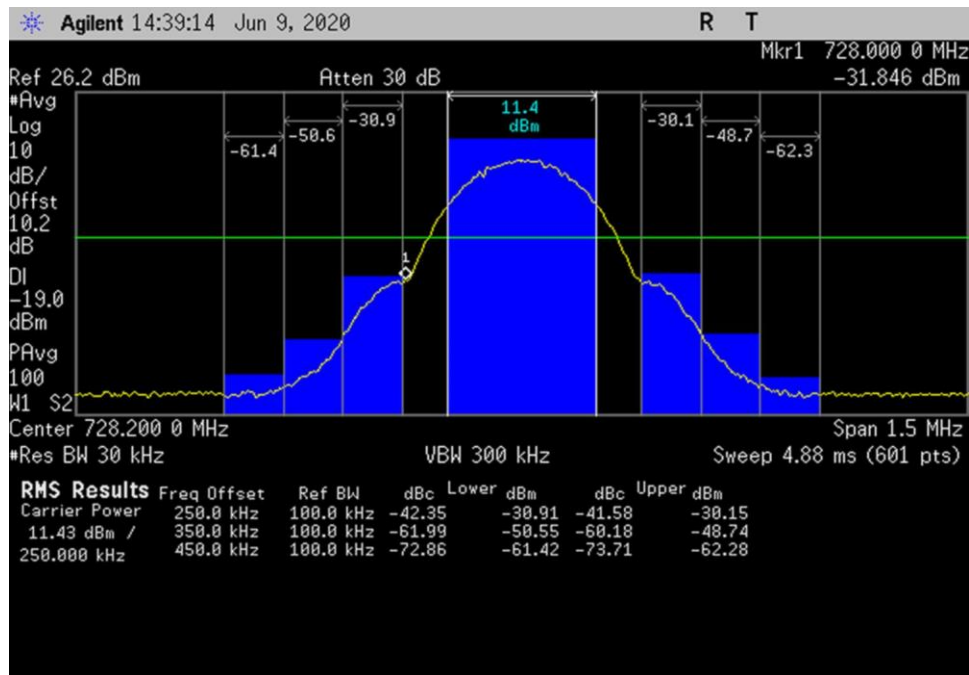
UL_776-787_GSM_Max_ 786.05- 787.55MHz



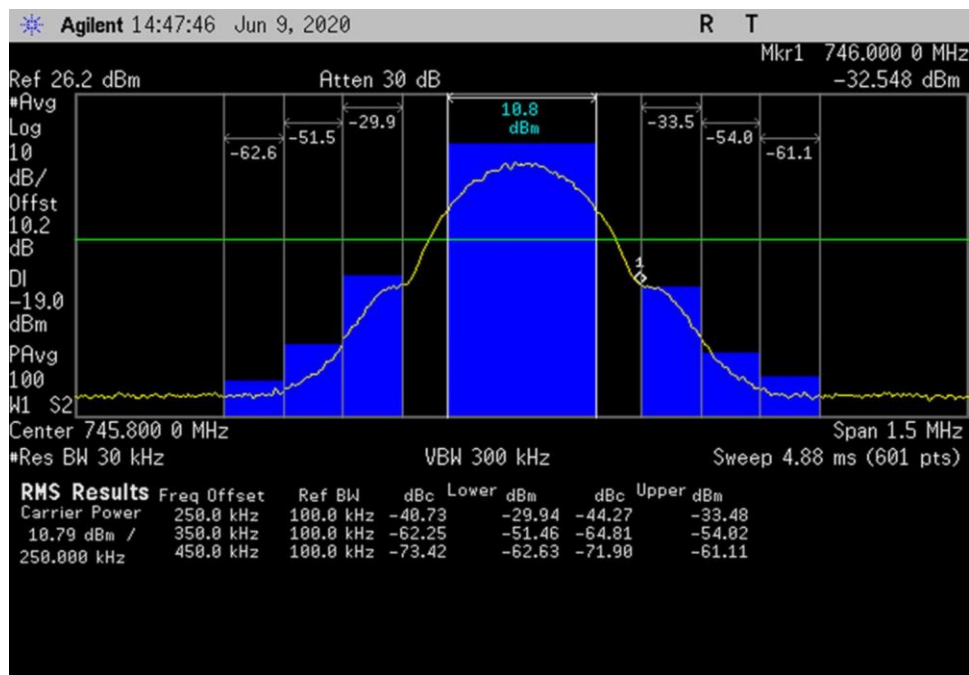
DL_728-746_GSM_727.45-728.95MHz



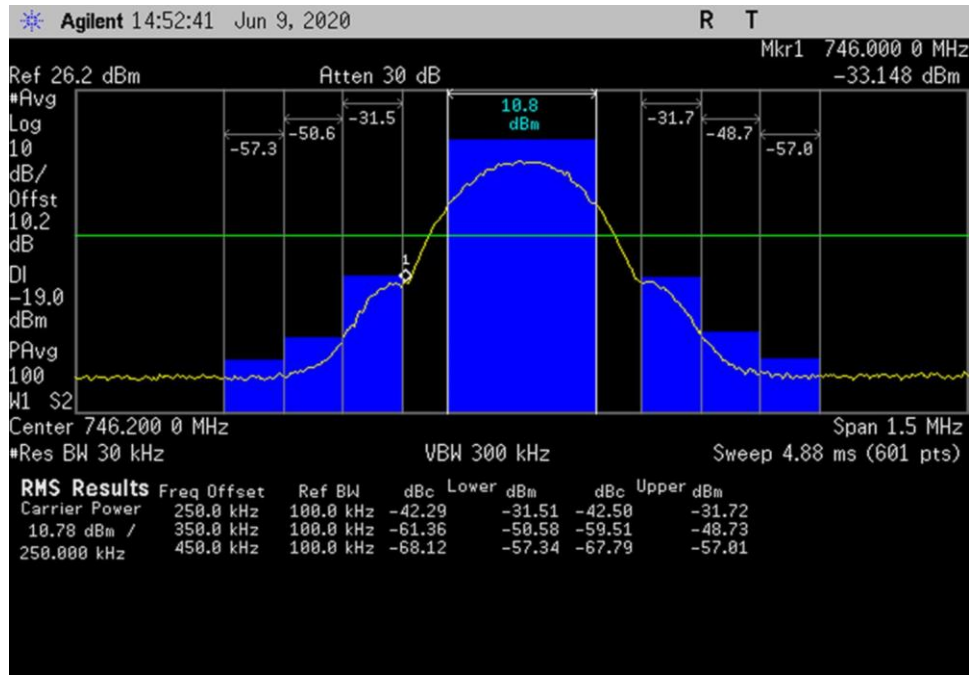
DL_728-746_GSM_745.05-746.55MHz



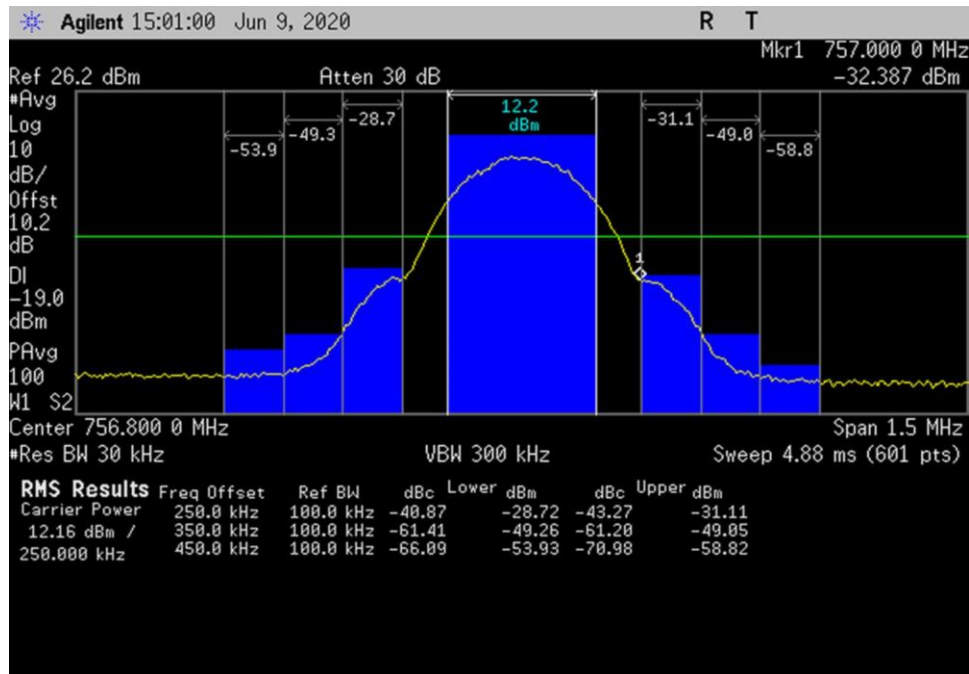
DL_728-746_GSM_Max_ 727.45- 728.95MHz



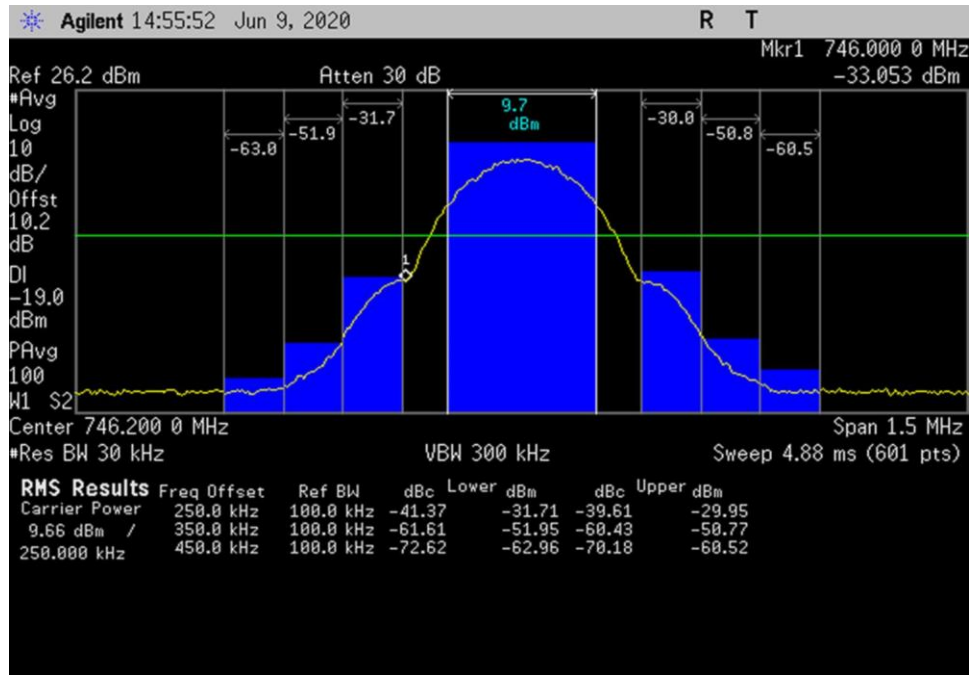
DL_728-746_GSM_Max_ 745.05- 746.55MHz



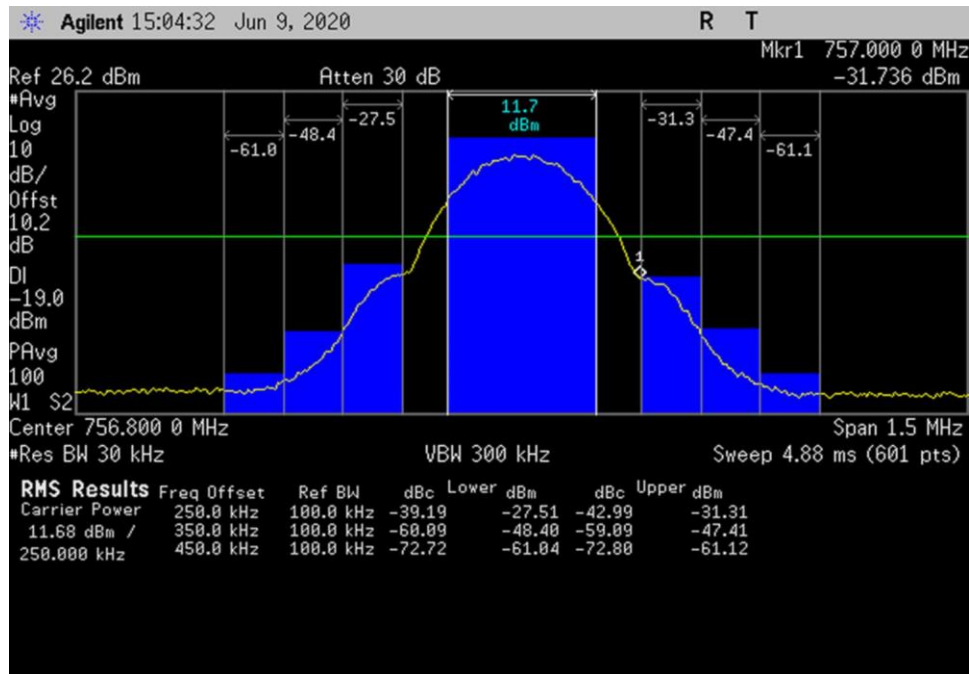
DL_746-757_GSM_ 745.45- 746.95MHz



DL_746-757_GSM_ 756.05- 757.55MHz

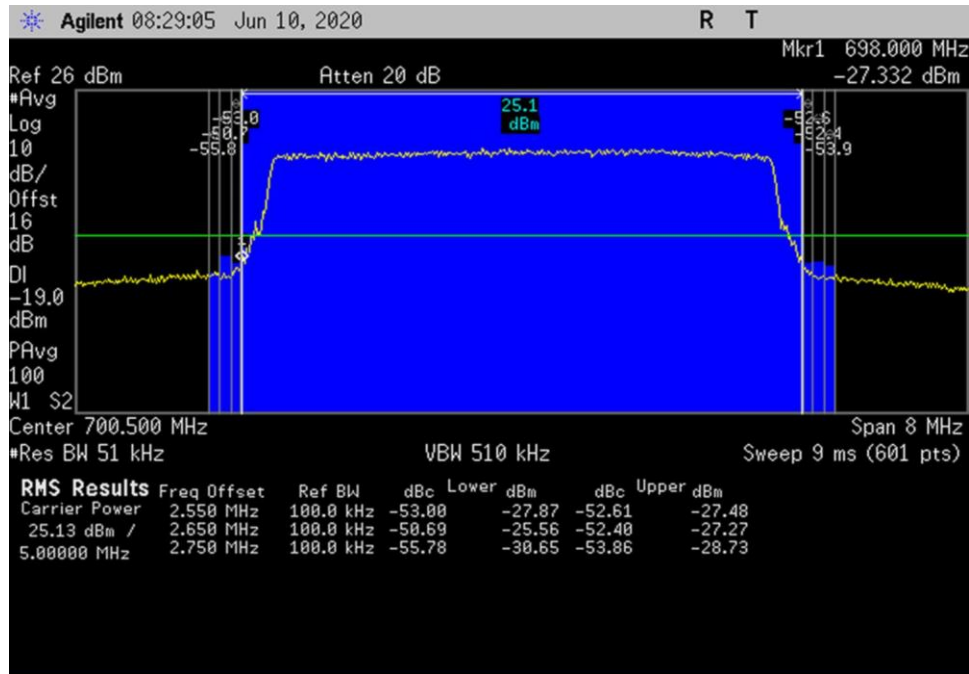


DL_746-757_GSM_Max_745.45-746.95MHz

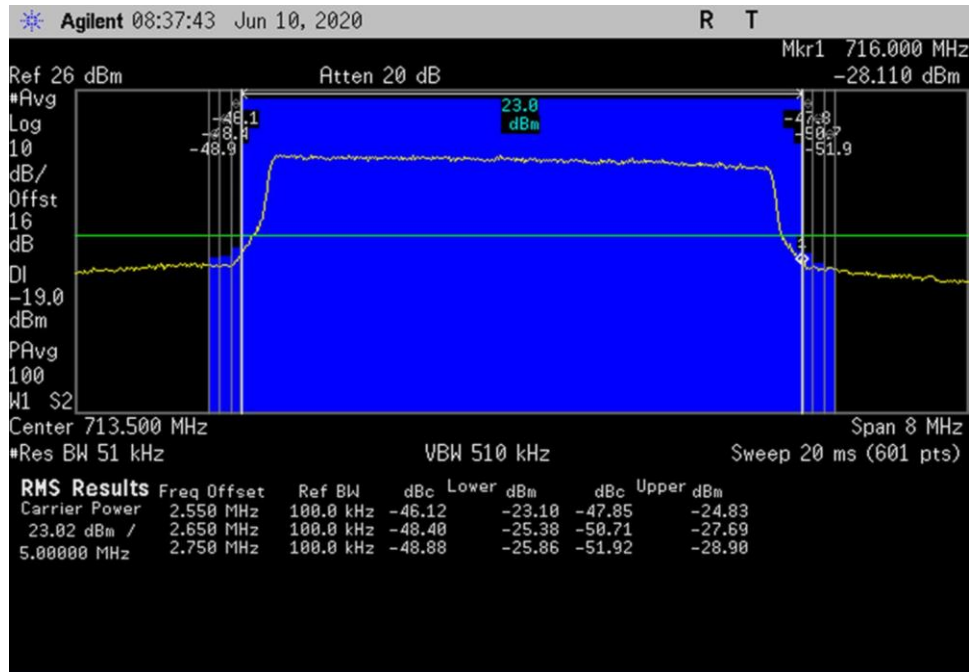


DL_746-757_GSM_Max_756.05-757.55MHz

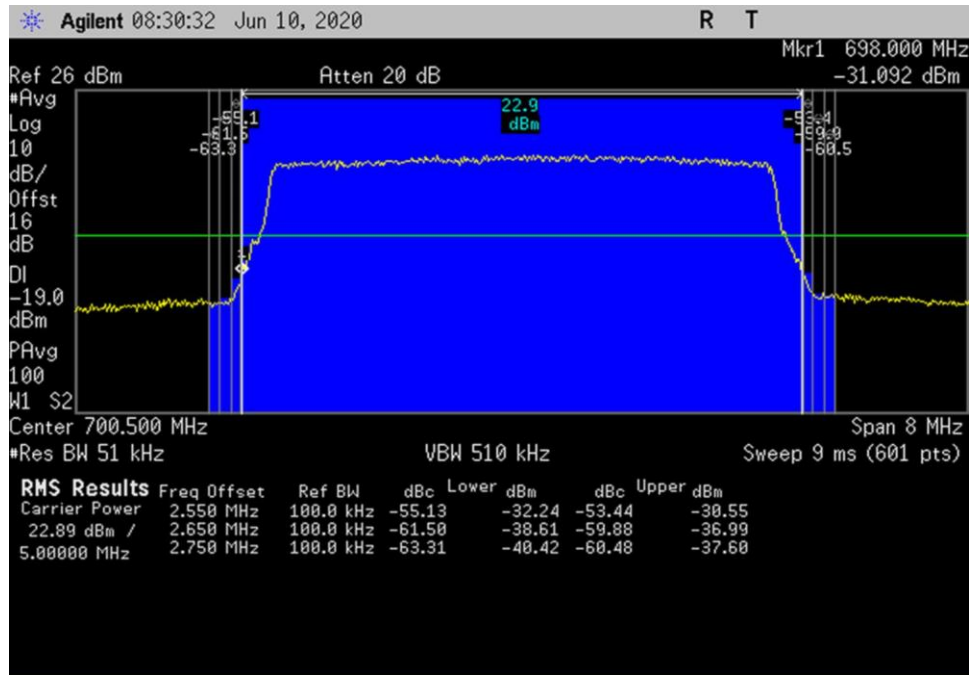
LTE



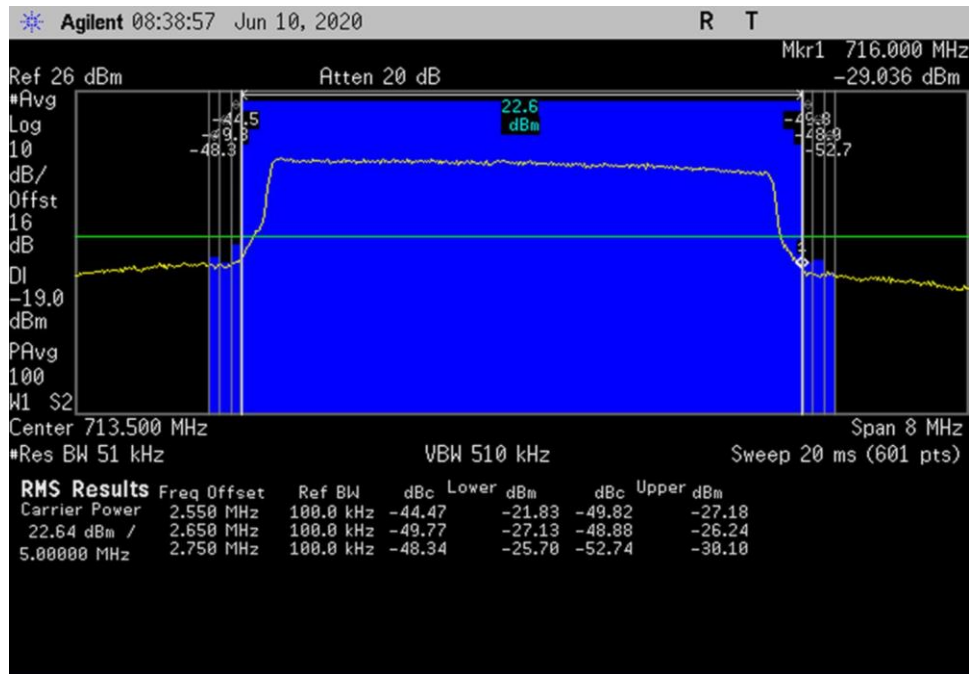
UL_698-716_LTE_696.5- 704.5MHz



UL_698-716_LTE_709.5- 717.5MHz



UL_698-716_LTE_Max_ 696.5- 704.5MHz



UL_698-716_LTE_Max_ 709.5- 717.5MHz