



# RF TEST REPORT

**Applicant** ZTE Corporation  
**FCC ID** SRQ-MC801A  
**Product** 5G CPE  
**Model** MC801A  
**Report No.** R2112A1085-R3V1  
**Issue Date** January 12, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2020)/ FCC CFR47 Part 27 (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	January 5, 2022
Rev.1	Update data in Page 132 and Page 134.	January 12, 2022
Note: This revised report (Report No. R2112A1085-R3V1) supersedes and replaces the previously issued report (Report No. R2112A1085-R3). Please discard or destroy the previously issued report and dispose of it accordingly.		



## Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(h)(2)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(m)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 /27.53(h) /27.53(m)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m)	PASS

Date of Testing: December 4, 2021 ~ December 25, 2021

Date of Sample Received: December 1, 2021

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



# 1 Test Laboratory

## 1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

## 1.2. Test facility

### **FCC (Designation number: CN1179, Test Firm Registration Number: 446626)**

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

### **A2LA (Certificate Number: 3857.01)**

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

## 1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
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City: Shanghai  
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## 2 General Description of Equipment under Test

### 2.1 Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

### 2.2 General information

EUT Description			
Model	MC801A		
IMEI	863671043881410		
Hardware Version	MC801AHW-1.0.0		
Software Version	BD_TLCMXMC801AV1.0.0B01		
Power Supply	AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	WCDMA Band IV:	2.0 dBi	
	LTE Band 4:	2.0 dBi	
	LTE Band 7:	2.5 dBi	
	LTE Band 38:	2.0 dBi	
	LTE Band 66:	2.0 dBi	
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/66;		
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE) QPSK, 16QAM, 64QAM;		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	25.34 dBm	
	LTE Band 4:	26.52 dBm	
	LTE Band 7:	26.85 dBm	
	LTE Band 38:	26.35 dBm	
	LTE Band 66:	27.65 dBm	
Rated Power Supply Voltage	12V		
Operating Voltage	Minimum: 10.8V    Maximum: 13.2V		
Operating Temperature	Lowest: -20°C    Highest: +55°C		
Testing Temperature	Lowest: -30°C    Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155



	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
<b>EUT Accessory</b>			
Adapter 1	Manufacturer: Shenzhen Ruijing Industrial Co.,Ltd Model: STC-A1215C55-C		
Adapter 2	Manufacturer: Shenzhen Dokocom Energy Technology Co., Ltd. Model: STC-A1215C55-C		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			



### 3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**Test standards:**

**FCC CFR47 Part 27 (2020)**

**FCC CFR47 Part 2 (2020)**

**Reference standard:**

**ANSI C63.26 (2015)**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**



## 4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation
	WCDMA Band IV
RF Power Output and Effective Isotropic Radiated Power	RMC HSDPA/HSUPA DC-HSDPA/HSPA+
Occupied Bandwidth	RMC
Band Edge Compliance	RMC
Peak-to-Average Power Ratio	RMC
Frequency Stability	RMC
Spurious Emissions at Antenna Terminals	RMC
Radiates Spurious Emission	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7/38/66:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H	
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O	O
	LTE 38	-	-	O	O	-	-	O	O	-	-	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O	O



	LTE 38	-	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 38	-	O	O	O	O	-	O	O	O	-	-	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 38	-	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 38	-	O	O	O	O	-	O	-	O	-	-	-	O	-
	LTE 66	O	-	-	O	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

## 5 Test Case Results

### 5.1 RF Power Output and Effective Isotropic Radiated Power

#### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

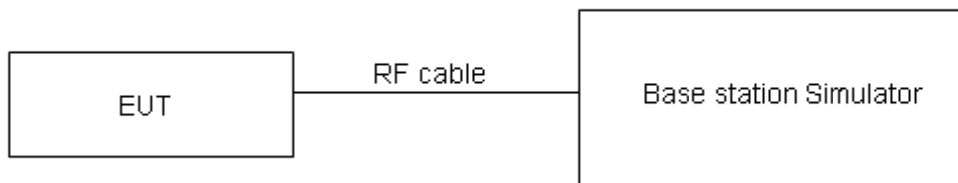
ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$$

where:dBd refers to gain relative to an ideal dipole.

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

#### Test Setup



#### Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit	≤ 2 W (33 dBm)

#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U=0.4$  dB for RF power output,  $k = 2$ ,  $U= 1.19$  dB for ERP/EIRP.



## Test Results

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
<b>RMC</b>		22.89	23.28	23.34	24.89	25.28	25.34
<b>HSDPA</b>	Sub - Test 1	22.31	22.70	22.76	24.31	24.70	24.76
	Sub - Test 2	22.30	22.69	22.75	24.30	24.69	24.75
	Sub - Test 3	21.79	22.18	22.24	23.79	24.18	24.24
	Sub - Test 4	21.78	22.17	22.23	23.78	24.17	24.23
<b>HSUPA</b>	Sub - Test 1	21.27	21.66	21.72	23.27	23.66	23.72
	Sub - Test 2	19.26	19.65	19.71	21.26	21.65	21.71
	Sub - Test 3	20.24	20.64	20.70	22.24	22.64	22.70
	Sub - Test 4	19.23	19.63	19.69	21.23	21.63	21.69
	Sub - Test 5	22.72	23.12	23.18	24.72	25.12	25.18
<b>DC-HSDPA</b>	Sub - Test 1	22.23	22.64	22.68	24.23	24.64	24.68
	Sub - Test 2	22.22	22.63	22.67	24.22	24.63	24.67
	Sub - Test 3	21.80	22.12	22.18	23.80	24.12	24.18
	Sub - Test 4	21.79	22.11	22.17	23.79	24.11	24.17
<b>HSPA+</b>	16QAM	20.38	20.79	20.85	22.38	22.79	22.85



LTE Band 4							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)	Verdict
1.4	19957	1	#0	QPSK	22.87	24.87	PASS
1.4	19957	1	#Mid	QPSK	23.07	25.07	PASS
1.4	19957	1	#Max	QPSK	23.01	25.01	PASS
1.4	19957	3	#0	QPSK	22.88	24.88	PASS
1.4	19957	3	#Mid	QPSK	22.87	24.87	PASS
1.4	19957	3	#Max	QPSK	22.93	24.93	PASS
1.4	19957	6	#0	QPSK	22.07	24.07	PASS
1.4	19957	1	#0	QAM16	21.93	23.93	PASS
1.4	19957	1	#Mid	QAM16	22.19	24.19	PASS
1.4	19957	1	#Max	QAM16	22.18	24.18	PASS
1.4	19957	3	#0	QAM16	22.04	24.04	PASS
1.4	19957	3	#Mid	QAM16	22.14	24.14	PASS
1.4	19957	3	#Max	QAM16	22.27	24.27	PASS
1.4	19957	6	#0	QAM16	21.13	23.13	PASS
1.4	20175	1	#0	QPSK	23.72	25.72	PASS
1.4	20175	1	#Mid	QPSK	23.95	25.95	PASS
1.4	20175	1	#Max	QPSK	23.80	25.80	PASS
1.4	20175	3	#0	QPSK	23.82	25.82	PASS
1.4	20175	3	#Mid	QPSK	23.77	25.77	PASS
1.4	20175	3	#Max	QPSK	23.79	25.79	PASS
1.4	20175	6	#0	QPSK	22.94	24.94	PASS
1.4	20175	1	#0	QAM16	22.94	24.94	PASS
1.4	20175	1	#Mid	QAM16	23.22	25.22	PASS
1.4	20175	1	#Max	QAM16	23.05	25.05	PASS
1.4	20175	3	#0	QAM16	22.96	24.96	PASS
1.4	20175	3	#Mid	QAM16	22.72	24.72	PASS
1.4	20175	3	#Max	QAM16	23.05	25.05	PASS
1.4	20175	6	#0	QAM16	21.81	23.81	PASS
1.4	20393	1	#0	QPSK	24.33	26.33	PASS
1.4	20393	1	#Mid	QPSK	24.48	26.48	PASS
1.4	20393	1	#Max	QPSK	24.38	26.38	PASS
1.4	20393	3	#0	QPSK	24.35	26.35	PASS
1.4	20393	3	#Mid	QPSK	24.31	26.31	PASS
1.4	20393	3	#Max	QPSK	24.33	26.33	PASS
1.4	20393	6	#0	QPSK	23.32	25.32	PASS
1.4	20393	1	#0	QAM16	23.25	25.25	PASS
1.4	20393	1	#Mid	QAM16	23.40	25.40	PASS
1.4	20393	1	#Max	QAM16	23.19	25.19	PASS
1.4	20393	3	#0	QAM16	23.54	25.54	PASS



1.4	20393	3	#Mid	QAM16	23.42	25.42	PASS
1.4	20393	3	#Max	QAM16	23.41	25.41	PASS
1.4	20393	6	#0	QAM16	22.37	24.37	PASS
3	19965	1	#0	QPSK	22.73	24.73	PASS
3	19965	1	#Mid	QPSK	23.25	25.25	PASS
3	19965	1	#Max	QPSK	23.31	25.31	PASS
3	19965	8	#0	QPSK	22.14	24.14	PASS
3	19965	8	#Mid	QPSK	22.13	24.13	PASS
3	19965	8	#Max	QPSK	22.33	24.33	PASS
3	19965	15	#0	QPSK	22.30	24.30	PASS
3	19965	1	#0	QAM16	22.13	24.13	PASS
3	19965	1	#Mid	QAM16	22.54	24.54	PASS
3	19965	1	#Max	QAM16	22.72	24.72	PASS
3	19965	8	#0	QAM16	21.20	23.20	PASS
3	19965	8	#Mid	QAM16	21.20	23.20	PASS
3	19965	8	#Max	QAM16	21.49	23.49	PASS
3	19965	15	#0	QAM16	21.31	23.31	PASS
3	20175	1	#0	QPSK	23.70	25.70	PASS
3	20175	1	#Mid	QPSK	23.97	25.97	PASS
3	20175	1	#Max	QPSK	23.78	25.78	PASS
3	20175	8	#0	QPSK	22.92	24.92	PASS
3	20175	8	#Mid	QPSK	22.97	24.97	PASS
3	20175	8	#Max	QPSK	23.00	25.00	PASS
3	20175	15	#0	QPSK	22.95	24.95	PASS
3	20175	1	#0	QAM16	23.17	25.17	PASS
3	20175	1	#Mid	QAM16	23.23	25.23	PASS
3	20175	1	#Max	QAM16	23.10	25.10	PASS
3	20175	8	#0	QAM16	21.94	23.94	PASS
3	20175	8	#Mid	QAM16	21.90	23.90	PASS
3	20175	8	#Max	QAM16	22.05	24.05	PASS
3	20175	15	#0	QAM16	21.87	23.87	PASS
3	20385	1	#0	QPSK	24.40	26.40	PASS
3	20385	1	#Mid	QPSK	24.45	26.45	PASS
3	20385	1	#Max	QPSK	24.52	26.52	PASS
3	20385	8	#0	QPSK	23.46	25.46	PASS
3	20385	8	#Mid	QPSK	23.46	25.46	PASS
3	20385	8	#Max	QPSK	23.48	25.48	PASS
3	20385	15	#0	QPSK	23.28	25.28	PASS
3	20385	1	#0	QAM16	23.17	25.17	PASS
3	20385	1	#Mid	QAM16	23.47	25.47	PASS
3	20385	1	#Max	QAM16	23.46	25.46	PASS
3	20385	8	#0	QAM16	22.47	24.47	PASS
3	20385	8	#Mid	QAM16	22.48	24.48	PASS



3	20385	8	#Max	QAM16	22.52	24.52	PASS
3	20385	15	#0	QAM16	22.50	24.50	PASS
5	19975	1	#0	QPSK	22.60	24.60	PASS
5	19975	1	#Mid	QPSK	23.41	25.41	PASS
5	19975	1	#Max	QPSK	23.75	25.75	PASS
5	19975	12	#0	QPSK	22.16	24.16	PASS
5	19975	12	#Mid	QPSK	22.12	24.12	PASS
5	19975	12	#Max	QPSK	22.74	24.74	PASS
5	19975	25	#0	QPSK	22.46	24.46	PASS
5	19975	1	#0	QAM16	22.06	24.06	PASS
5	19975	1	#Mid	QAM16	22.76	24.76	PASS
5	19975	1	#Max	QAM16	23.08	25.08	PASS
5	19975	12	#0	QAM16	21.18	23.18	PASS
5	19975	12	#Mid	QAM16	21.19	23.19	PASS
5	19975	12	#Max	QAM16	21.72	23.72	PASS
5	19975	25	#0	QAM16	21.45	23.45	PASS
5	20175	1	#0	QPSK	23.86	25.86	PASS
5	20175	1	#Mid	QPSK	23.97	25.97	PASS
5	20175	1	#Max	QPSK	23.81	25.81	PASS
5	20175	12	#0	QPSK	23.00	25.00	PASS
5	20175	12	#Mid	QPSK	22.95	24.95	PASS
5	20175	12	#Max	QPSK	23.03	25.03	PASS
5	20175	25	#0	QPSK	23.05	25.05	PASS
5	20175	1	#0	QAM16	23.17	25.17	PASS
5	20175	1	#Mid	QAM16	23.30	25.30	PASS
5	20175	1	#Max	QAM16	22.99	24.99	PASS
5	20175	12	#0	QAM16	21.97	23.97	PASS
5	20175	12	#Mid	QAM16	21.99	23.99	PASS
5	20175	12	#Max	QAM16	22.08	24.08	PASS
5	20175	25	#0	QAM16	21.97	23.97	PASS
5	20375	1	#0	QPSK	24.24	26.24	PASS
5	20375	1	#Mid	QPSK	24.29	26.29	PASS
5	20375	1	#Max	QPSK	24.22	26.22	PASS
5	20375	12	#0	QPSK	23.34	25.34	PASS
5	20375	12	#Mid	QPSK	23.39	25.39	PASS
5	20375	12	#Max	QPSK	23.54	25.54	PASS
5	20375	25	#0	QPSK	23.47	25.47	PASS
5	20375	1	#0	QAM16	23.54	25.54	PASS
5	20375	1	#Mid	QAM16	23.74	25.74	PASS
5	20375	1	#Max	QAM16	23.74	25.74	PASS
5	20375	12	#0	QAM16	22.48	24.48	PASS
5	20375	12	#Mid	QAM16	22.48	24.48	PASS
5	20375	12	#Max	QAM16	22.58	24.58	PASS



5	20375	25	#0	QAM16	22.50	24.50	PASS
10	20000	1	#0	QPSK	22.18	24.18	PASS
10	20000	1	#Mid	QPSK	24.00	26.00	PASS
10	20000	1	#Max	QPSK	24.02	26.02	PASS
10	20000	25	#0	QPSK	22.33	24.33	PASS
10	20000	25	#Mid	QPSK	22.37	24.37	PASS
10	20000	25	#Max	QPSK	23.27	25.27	PASS
10	20000	50	#0	QPSK	22.97	24.97	PASS
10	20000	1	#0	QAM16	21.56	23.56	PASS
10	20000	1	#Mid	QAM16	23.32	25.32	PASS
10	20000	1	#Max	QAM16	23.42	25.42	PASS
10	20000	25	#0	QAM16	21.41	23.41	PASS
10	20000	25	#Mid	QAM16	21.41	23.41	PASS
10	20000	25	#Max	QAM16	22.39	24.39	PASS
10	20000	50	#0	QAM16	22.01	24.01	PASS
10	20175	1	#0	QPSK	23.80	25.80	PASS
10	20175	1	#Mid	QPSK	23.89	25.89	PASS
10	20175	1	#Max	QPSK	23.12	25.12	PASS
10	20175	25	#0	QPSK	23.01	25.01	PASS
10	20175	25	#Mid	QPSK	23.01	25.01	PASS
10	20175	25	#Max	QPSK	22.88	24.88	PASS
10	20175	50	#0	QPSK	23.02	25.02	PASS
10	20175	1	#0	QAM16	23.03	25.03	PASS
10	20175	1	#Mid	QAM16	23.14	25.14	PASS
10	20175	1	#Max	QAM16	22.32	24.32	PASS
10	20175	25	#0	QAM16	22.04	24.04	PASS
10	20175	25	#Mid	QAM16	22.03	24.03	PASS
10	20175	25	#Max	QAM16	21.88	23.88	PASS
10	20175	50	#0	QAM16	21.99	23.99	PASS
10	20350	1	#0	QPSK	23.86	25.86	PASS
10	20350	1	#Mid	QPSK	24.32	26.32	PASS
10	20350	1	#Max	QPSK	24.46	26.46	PASS
10	20350	25	#0	QPSK	23.23	25.23	PASS
10	20350	25	#Mid	QPSK	23.22	25.22	PASS
10	20350	25	#Max	QPSK	23.41	25.41	PASS
10	20350	50	#0	QPSK	23.34	25.34	PASS
10	20350	1	#0	QAM16	22.84	24.84	PASS
10	20350	1	#Mid	QAM16	23.21	25.21	PASS
10	20350	1	#Max	QAM16	23.37	25.37	PASS
10	20350	25	#0	QAM16	22.20	24.20	PASS
10	20350	25	#Mid	QAM16	22.25	24.25	PASS
10	20350	25	#Max	QAM16	22.46	24.46	PASS
10	20350	50	#0	QAM16	22.37	24.37	PASS





15	20025	1	#0	QPSK	22.71	24.71	PASS
15	20025	1	#Mid	QPSK	24.08	26.08	PASS
15	20025	1	#Max	QPSK	23.96	25.96	PASS
15	20025	36	#0	QPSK	22.82	24.82	PASS
15	20025	36	#Mid	QPSK	22.78	24.78	PASS
15	20025	36	#Max	QPSK	23.18	25.18	PASS
15	20025	75	#0	QPSK	23.25	25.25	PASS
15	20025	1	#0	QAM16	22.03	24.03	PASS
15	20025	1	#Mid	QAM16	23.60	25.60	PASS
15	20025	1	#Max	QAM16	23.38	25.38	PASS
15	20025	36	#0	QAM16	21.84	23.84	PASS
15	20025	36	#Mid	QAM16	21.88	23.88	PASS
15	20025	36	#Max	QAM16	22.19	24.19	PASS
15	20025	75	#0	QAM16	22.34	24.34	PASS
15	20175	1	#0	QPSK	23.79	25.79	PASS
15	20175	1	#Mid	QPSK	23.75	25.75	PASS
15	20175	1	#Max	QPSK	23.51	25.51	PASS
15	20175	36	#0	QPSK	23.04	25.04	PASS
15	20175	36	#Mid	QPSK	23.06	25.06	PASS
15	20175	36	#Max	QPSK	22.83	24.83	PASS
15	20175	75	#0	QPSK	22.99	24.99	PASS
15	20175	1	#0	QAM16	23.08	25.08	PASS
15	20175	1	#Mid	QAM16	23.14	25.14	PASS
15	20175	1	#Max	QAM16	22.73	24.73	PASS
15	20175	36	#0	QAM16	22.12	24.12	PASS
15	20175	36	#Mid	QAM16	22.07	24.07	PASS
15	20175	36	#Max	QAM16	21.89	23.89	PASS
15	20175	75	#0	QAM16	22.00	24.00	PASS
15	20325	1	#0	QPSK	23.48	25.48	PASS
15	20325	1	#Mid	QPSK	24.14	26.14	PASS
15	20325	1	#Max	QPSK	24.43	26.43	PASS
15	20325	36	#0	QPSK	23.20	25.20	PASS
15	20325	36	#Mid	QPSK	23.21	25.21	PASS
15	20325	36	#Max	QPSK	23.39	25.39	PASS
15	20325	75	#0	QPSK	23.34	25.34	PASS
15	20325	1	#0	QAM16	22.55	24.55	PASS
15	20325	1	#Mid	QAM16	23.32	25.32	PASS
15	20325	1	#Max	QAM16	23.56	25.56	PASS
15	20325	36	#0	QAM16	22.18	24.18	PASS
15	20325	36	#Mid	QAM16	22.20	24.20	PASS
15	20325	36	#Max	QAM16	22.44	24.44	PASS
15	20325	75	#0	QAM16	22.35	24.35	PASS
20	20050	1	#0	QPSK	22.46	24.46	PASS



20	20050	1	#Mid	QPSK	24.11	26.11	PASS
20	20050	1	#Max	QPSK	24.00	26.00	PASS
20	20050	50	#0	QPSK	23.17	25.17	PASS
20	20050	50	#Mid	QPSK	23.16	25.16	PASS
20	20050	50	#Max	QPSK	23.12	25.12	PASS
20	20050	100	#0	QPSK	23.30	25.30	PASS
20	20050	1	#0	QAM16	21.75	23.75	PASS
20	20050	1	#Mid	QAM16	23.36	25.36	PASS
20	20050	1	#Max	QAM16	23.28	25.28	PASS
20	20050	50	#0	QAM16	22.22	24.22	PASS
20	20050	50	#Mid	QAM16	22.21	24.21	PASS
20	20050	50	#Max	QAM16	22.16	24.16	PASS
20	20050	100	#0	QAM16	22.27	24.27	PASS
20	20175	1	#0	QPSK	24.01	26.01	PASS
20	20175	1	#Mid	QPSK	23.97	25.97	PASS
20	20175	1	#Max	QPSK	23.25	25.25	PASS
20	20175	50	#0	QPSK	23.08	25.08	PASS
20	20175	50	#Mid	QPSK	23.10	25.10	PASS
20	20175	50	#Max	QPSK	22.59	24.59	PASS
20	20175	100	#0	QPSK	23.06	25.06	PASS
20	20175	1	#0	QAM16	23.04	25.04	PASS
20	20175	1	#Mid	QAM16	22.96	24.96	PASS
20	20175	1	#Max	QAM16	22.19	24.19	PASS
20	20175	50	#0	QAM16	22.11	24.11	PASS
20	20175	50	#Mid	QAM16	22.09	24.09	PASS
20	20175	50	#Max	QAM16	21.63	23.63	PASS
20	20175	100	#0	QAM16	22.11	24.11	PASS
20	20300	1	#0	QPSK	22.93	24.93	PASS
20	20300	1	#Mid	QPSK	23.96	25.96	PASS
20	20300	1	#Max	QPSK	24.31	26.31	PASS
20	20300	50	#0	QPSK	22.76	24.76	PASS
20	20300	50	#Mid	QPSK	22.69	24.69	PASS
20	20300	50	#Max	QPSK	23.35	25.35	PASS
20	20300	100	#0	QPSK	23.21	25.21	PASS
20	20300	1	#0	QAM16	21.72	23.72	PASS
20	20300	1	#Mid	QAM16	23.02	25.02	PASS
20	20300	1	#Max	QAM16	23.31	25.31	PASS
20	20300	50	#0	QAM16	21.84	23.84	PASS
20	20300	50	#Mid	QAM16	21.80	23.80	PASS
20	20300	50	#Max	QAM16	22.40	24.40	PASS
20	20300	100	#0	QAM16	22.14	24.14	PASS
1.4	19957	1	#0	QAM64	21.09	23.09	PASS
1.4	19957	1	#Mid	QAM64	21.23	23.23	PASS



1.4	19957	1	#Max	QAM64	21.33	23.33	PASS
1.4	19957	3	#0	QAM64	21.29	23.29	PASS
1.4	19957	3	#Mid	QAM64	21.28	23.28	PASS
1.4	19957	3	#Max	QAM64	21.36	23.36	PASS
1.4	19957	6	#0	QAM64	20.26	22.26	PASS
1.4	20175	1	#0	QAM64	22.37	24.37	PASS
1.4	20175	1	#Mid	QAM64	22.44	24.44	PASS
1.4	20175	1	#Max	QAM64	22.27	24.27	PASS
1.4	20175	3	#0	QAM64	22.18	24.18	PASS
1.4	20175	3	#Mid	QAM64	22.28	24.28	PASS
1.4	20175	3	#Max	QAM64	22.13	24.13	PASS
1.4	20175	6	#0	QAM64	21.22	23.22	PASS
1.4	20393	1	#0	QAM64	22.80	24.80	PASS
1.4	20393	1	#Mid	QAM64	22.94	24.94	PASS
1.4	20393	1	#Max	QAM64	22.83	24.83	PASS
1.4	20393	3	#0	QAM64	23.07	25.07	PASS
1.4	20393	3	#Mid	QAM64	23.11	25.11	PASS
1.4	20393	3	#Max	QAM64	23.09	25.09	PASS
1.4	20393	6	#0	QAM64	21.87	23.87	PASS
3	19965	1	#0	QAM64	21.28	23.28	PASS
3	19965	1	#Mid	QAM64	21.73	23.73	PASS
3	19965	1	#Max	QAM64	21.87	23.87	PASS
3	19965	8	#0	QAM64	20.31	22.31	PASS
3	19965	8	#Mid	QAM64	20.21	22.21	PASS
3	19965	8	#Max	QAM64	20.62	22.62	PASS
3	19965	15	#0	QAM64	20.39	22.39	PASS
3	20175	1	#0	QAM64	22.49	24.49	PASS
3	20175	1	#Mid	QAM64	22.53	24.53	PASS
3	20175	1	#Max	QAM64	22.16	24.16	PASS
3	20175	8	#0	QAM64	21.47	23.47	PASS
3	20175	8	#Mid	QAM64	21.43	23.43	PASS
3	20175	8	#Max	QAM64	21.33	23.33	PASS
3	20175	15	#0	QAM64	21.25	23.25	PASS
3	20385	1	#0	QAM64	22.84	24.84	PASS
3	20385	1	#Mid	QAM64	22.96	24.96	PASS
3	20385	1	#Max	QAM64	22.96	24.96	PASS
3	20385	8	#0	QAM64	22.03	24.03	PASS
3	20385	8	#Mid	QAM64	21.97	23.97	PASS
3	20385	8	#Max	QAM64	22.04	24.04	PASS
3	20385	15	#0	QAM64	22.06	24.06	PASS
5	19975	1	#0	QAM64	21.78	23.78	PASS
5	19975	1	#Mid	QAM64	22.60	24.60	PASS
5	19975	1	#Max	QAM64	22.90	24.90	PASS



5	19975	12	#0	QAM64	21.29	23.29	PASS
5	19975	12	#Mid	QAM64	21.23	23.23	PASS
5	19975	12	#Max	QAM64	21.88	23.88	PASS
5	19975	25	#0	QAM64	21.60	23.60	PASS
5	20175	1	#0	QAM64	23.25	25.25	PASS
5	20175	1	#Mid	QAM64	23.18	25.18	PASS
5	20175	1	#Max	QAM64	22.72	24.72	PASS
5	20175	12	#0	QAM64	22.38	24.38	PASS
5	20175	12	#Mid	QAM64	22.41	24.41	PASS
5	20175	12	#Max	QAM64	22.16	24.16	PASS
5	20175	25	#0	QAM64	22.22	24.22	PASS
5	20375	1	#0	QAM64	23.76	25.76	PASS
5	20375	1	#Mid	QAM64	23.71	25.71	PASS
5	20375	1	#Max	QAM64	23.82	25.82	PASS
5	20375	12	#0	QAM64	22.92	24.92	PASS
5	20375	12	#Mid	QAM64	22.89	24.89	PASS
5	20375	12	#Max	QAM64	22.97	24.97	PASS
5	20375	25	#0	QAM64	23.02	25.02	PASS
10	20000	1	#0	QAM64	20.71	22.71	PASS
10	20000	1	#Mid	QAM64	22.44	24.44	PASS
10	20000	1	#Max	QAM64	22.83	24.83	PASS
10	20000	25	#0	QAM64	20.61	22.61	PASS
10	20000	25	#Mid	QAM64	20.61	22.61	PASS
10	20000	25	#Max	QAM64	21.76	23.76	PASS
10	20000	50	#0	QAM64	21.17	23.17	PASS
10	20175	1	#0	QAM64	22.43	24.43	PASS
10	20175	1	#Mid	QAM64	22.35	24.35	PASS
10	20175	1	#Max	QAM64	21.49	23.49	PASS
10	20175	25	#0	QAM64	21.50	23.50	PASS
10	20175	25	#Mid	QAM64	21.52	23.52	PASS
10	20175	25	#Max	QAM64	21.01	23.01	PASS
10	20175	50	#0	QAM64	21.23	23.23	PASS
10	20350	1	#0	QAM64	21.96	23.96	PASS
10	20350	1	#Mid	QAM64	22.71	24.71	PASS
10	20350	1	#Max	QAM64	22.88	24.88	PASS
10	20350	25	#0	QAM64	21.70	23.70	PASS
10	20350	25	#Mid	QAM64	21.72	23.72	PASS
10	20350	25	#Max	QAM64	22.02	24.02	PASS
10	20350	50	#0	QAM64	21.89	23.89	PASS
15	20025	1	#0	QAM64	21.20	23.20	PASS
15	20025	1	#Mid	QAM64	22.99	24.99	PASS
15	20025	1	#Max	QAM64	22.95	24.95	PASS
15	20025	36	#0	QAM64	21.01	23.01	PASS



15	20025	36	#Mid	QAM64	21.04	23.04	PASS
15	20025	36	#Max	QAM64	21.73	23.73	PASS
15	20025	75	#0	QAM64	21.81	23.81	PASS
15	20175	1	#0	QAM64	22.69	24.69	PASS
15	20175	1	#Mid	QAM64	22.39	24.39	PASS
15	20175	1	#Max	QAM64	21.83	23.83	PASS
15	20175	36	#0	QAM64	21.60	23.60	PASS
15	20175	36	#Mid	QAM64	21.62	23.62	PASS
15	20175	36	#Max	QAM64	20.97	22.97	PASS
15	20175	75	#0	QAM64	21.53	23.53	PASS
15	20325	1	#0	QAM64	21.74	23.74	PASS
15	20325	1	#Mid	QAM64	22.77	24.77	PASS
15	20325	1	#Max	QAM64	23.07	25.07	PASS
15	20325	36	#0	QAM64	21.60	23.60	PASS
15	20325	36	#Mid	QAM64	21.59	23.59	PASS
15	20325	36	#Max	QAM64	21.92	23.92	PASS
15	20325	75	#0	QAM64	21.87	23.87	PASS
20	20050	1	#0	QAM64	20.91	22.91	PASS
20	20050	1	#Mid	QAM64	22.82	24.82	PASS
20	20050	1	#Max	QAM64	22.41	24.41	PASS
20	20050	50	#0	QAM64	21.38	23.38	PASS
20	20050	50	#Mid	QAM64	21.40	23.40	PASS
20	20050	50	#Max	QAM64	21.73	23.73	PASS
20	20050	100	#0	QAM64	21.75	23.75	PASS
20	20175	1	#0	QAM64	22.76	24.76	PASS
20	20175	1	#Mid	QAM64	22.10	24.10	PASS
20	20175	1	#Max	QAM64	21.32	23.32	PASS
20	20175	50	#0	QAM64	21.57	23.57	PASS
20	20175	50	#Mid	QAM64	21.58	23.58	PASS
20	20175	50	#Max	QAM64	20.73	22.73	PASS
20	20175	100	#0	QAM64	21.40	23.40	PASS
20	20300	1	#0	QAM64	20.85	22.85	PASS
20	20300	1	#Mid	QAM64	22.46	24.46	PASS
20	20300	1	#Max	QAM64	22.72	24.72	PASS
20	20300	50	#0	QAM64	20.98	22.98	PASS
20	20300	50	#Mid	QAM64	20.97	22.97	PASS
20	20300	50	#Max	QAM64	21.89	23.89	PASS
20	20300	100	#0	QAM64	21.74	23.74	PASS

LTE Band 7							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)	Verdict
5	20775	1	#0	QPSK	24.16	26.66	PASS



5	20775	1	#Mid	QPSK	24.17	26.67	PASS
5	20775	1	#Max	QPSK	24.03	26.53	PASS
5	20775	12	#0	QPSK	23.34	25.84	PASS
5	20775	12	#Mid	QPSK	23.33	25.83	PASS
5	20775	12	#Max	QPSK	23.29	25.79	PASS
5	20775	25	#0	QPSK	23.38	25.88	PASS
5	20775	1	#0	QAM16	23.46	25.96	PASS
5	20775	1	#Mid	QAM16	23.55	26.05	PASS
5	20775	1	#Max	QAM16	23.41	25.91	PASS
5	20775	12	#0	QAM16	22.47	24.97	PASS
5	20775	12	#Mid	QAM16	22.37	24.87	PASS
5	20775	12	#Max	QAM16	22.39	24.89	PASS
5	20775	25	#0	QAM16	22.35	24.85	PASS
5	21100	1	#0	QPSK	23.66	26.16	PASS
5	21100	1	#Mid	QPSK	23.91	26.41	PASS
5	21100	1	#Max	QPSK	24.01	26.51	PASS
5	21100	12	#0	QPSK	22.89	25.39	PASS
5	21100	12	#Mid	QPSK	22.81	25.31	PASS
5	21100	12	#Max	QPSK	23.05	25.55	PASS
5	21100	25	#0	QPSK	22.90	25.40	PASS
5	21100	1	#0	QAM16	23.00	25.50	PASS
5	21100	1	#Mid	QAM16	23.23	25.73	PASS
5	21100	1	#Max	QAM16	23.36	25.86	PASS
5	21100	12	#0	QAM16	21.81	24.31	PASS
5	21100	12	#Mid	QAM16	21.83	24.33	PASS
5	21100	12	#Max	QAM16	22.05	24.55	PASS
5	21100	25	#0	QAM16	21.97	24.47	PASS
5	21425	1	#0	QPSK	23.54	26.04	PASS
5	21425	1	#Mid	QPSK	23.60	26.10	PASS
5	21425	1	#Max	QPSK	23.59	26.09	PASS
5	21425	12	#0	QPSK	22.64	25.14	PASS
5	21425	12	#Mid	QPSK	22.64	25.14	PASS
5	21425	12	#Max	QPSK	22.68	25.18	PASS
5	21425	25	#0	QPSK	22.67	25.17	PASS
5	21425	1	#0	QAM16	22.85	25.35	PASS
5	21425	1	#Mid	QAM16	22.88	25.38	PASS
5	21425	1	#Max	QAM16	22.87	25.37	PASS
5	21425	12	#0	QAM16	21.62	24.12	PASS
5	21425	12	#Mid	QAM16	21.62	24.12	PASS
5	21425	12	#Max	QAM16	21.65	24.15	PASS
5	21425	25	#0	QAM16	21.64	24.14	PASS
10	20800	1	#0	QPSK	24.20	26.70	PASS
10	20800	1	#Mid	QPSK	24.04	26.54	PASS



10	20800	1	#Max	QPSK	23.75	26.25	PASS
10	20800	25	#0	QPSK	23.31	25.81	PASS
10	20800	25	#Mid	QPSK	23.35	25.85	PASS
10	20800	25	#Max	QPSK	23.19	25.69	PASS
10	20800	50	#0	QPSK	23.28	25.78	PASS
10	20800	1	#0	QAM16	23.58	26.08	PASS
10	20800	1	#Mid	QAM16	23.40	25.90	PASS
10	20800	1	#Max	QAM16	23.21	25.71	PASS
10	20800	25	#0	QAM16	22.40	24.90	PASS
10	20800	25	#Mid	QAM16	22.43	24.93	PASS
10	20800	25	#Max	QAM16	22.23	24.73	PASS
10	20800	50	#0	QAM16	22.09	24.59	PASS
10	21100	1	#0	QPSK	23.45	25.95	PASS
10	21100	1	#Mid	QPSK	23.75	26.25	PASS
10	21100	1	#Max	QPSK	24.02	26.52	PASS
10	21100	25	#0	QPSK	22.74	25.24	PASS
10	21100	25	#Mid	QPSK	22.72	25.22	PASS
10	21100	25	#Max	QPSK	23.06	25.56	PASS
10	21100	50	#0	QPSK	22.85	25.35	PASS
10	21100	1	#0	QAM16	22.83	25.33	PASS
10	21100	1	#Mid	QAM16	23.12	25.62	PASS
10	21100	1	#Max	QAM16	23.28	25.78	PASS
10	21100	25	#0	QAM16	21.77	24.27	PASS
10	21100	25	#Mid	QAM16	21.78	24.28	PASS
10	21100	25	#Max	QAM16	22.20	24.70	PASS
10	21100	50	#0	QAM16	21.87	24.37	PASS
10	21400	1	#0	QPSK	23.54	26.04	PASS
10	21400	1	#Mid	QPSK	23.51	26.01	PASS
10	21400	1	#Max	QPSK	23.58	26.08	PASS
10	21400	25	#0	QPSK	22.53	25.03	PASS
10	21400	25	#Mid	QPSK	22.58	25.08	PASS
10	21400	25	#Max	QPSK	22.67	25.17	PASS
10	21400	50	#0	QPSK	22.62	25.12	PASS
10	21400	1	#0	QAM16	22.55	25.05	PASS
10	21400	1	#Mid	QAM16	22.40	24.90	PASS
10	21400	1	#Max	QAM16	22.49	24.99	PASS
10	21400	25	#0	QAM16	21.62	24.12	PASS
10	21400	25	#Mid	QAM16	21.57	24.07	PASS
10	21400	25	#Max	QAM16	21.67	24.17	PASS
10	21400	50	#0	QAM16	21.60	24.10	PASS
15	20825	1	#0	QPSK	24.25	26.75	PASS
15	20825	1	#Mid	QPSK	23.97	26.47	PASS
15	20825	1	#Max	QPSK	23.58	26.08	PASS



15	20825	36	#0	QPSK	23.26	25.76	PASS
15	20825	36	#Mid	QPSK	23.23	25.73	PASS
15	20825	36	#Max	QPSK	22.95	25.45	PASS
15	20825	75	#0	QPSK	23.10	25.60	PASS
15	20825	1	#0	QAM16	23.75	26.25	PASS
15	20825	1	#Mid	QAM16	23.43	25.93	PASS
15	20825	1	#Max	QAM16	22.98	25.48	PASS
15	20825	36	#0	QAM16	22.26	24.76	PASS
15	20825	36	#Mid	QAM16	22.22	24.72	PASS
15	20825	36	#Max	QAM16	21.96	24.46	PASS
15	20825	75	#0	QAM16	22.13	24.63	PASS
15	21100	1	#0	QPSK	23.35	25.85	PASS
15	21100	1	#Mid	QPSK	23.83	26.33	PASS
15	21100	1	#Max	QPSK	24.19	26.69	PASS
15	21100	36	#0	QPSK	22.64	25.14	PASS
15	21100	36	#Mid	QPSK	22.66	25.16	PASS
15	21100	36	#Max	QPSK	23.18	25.68	PASS
15	21100	75	#0	QPSK	22.85	25.35	PASS
15	21100	1	#0	QAM16	22.72	25.22	PASS
15	21100	1	#Mid	QAM16	23.19	25.69	PASS
15	21100	1	#Max	QAM16	23.54	26.04	PASS
15	21100	36	#0	QAM16	21.67	24.17	PASS
15	21100	36	#Mid	QAM16	21.68	24.18	PASS
15	21100	36	#Max	QAM16	22.22	24.72	PASS
15	21100	75	#0	QAM16	21.85	24.35	PASS
15	21375	1	#0	QPSK	23.86	26.36	PASS
15	21375	1	#Mid	QPSK	23.60	26.10	PASS
15	21375	1	#Max	QPSK	23.59	26.09	PASS
15	21375	36	#0	QPSK	22.71	25.21	PASS
15	21375	36	#Mid	QPSK	22.71	25.21	PASS
15	21375	36	#Max	QPSK	22.64	25.14	PASS
15	21375	75	#0	QPSK	22.63	25.13	PASS
15	21375	1	#0	QAM16	22.99	25.49	PASS
15	21375	1	#Mid	QAM16	22.81	25.31	PASS
15	21375	1	#Max	QAM16	22.82	25.32	PASS
15	21375	36	#0	QAM16	21.72	24.22	PASS
15	21375	36	#Mid	QAM16	21.78	24.28	PASS
15	21375	36	#Max	QAM16	21.68	24.18	PASS
15	21375	75	#0	QAM16	21.68	24.18	PASS
20	20850	1	#0	QPSK	24.25	26.75	PASS
20	20850	1	#Mid	QPSK	23.82	26.32	PASS
20	20850	1	#Max	QPSK	23.47	25.97	PASS
20	20850	50	#0	QPSK	23.14	25.64	PASS





20	20850	50	#Mid	QPSK	23.17	25.67	PASS
20	20850	50	#Max	QPSK	22.59	25.09	PASS
20	20850	100	#0	QPSK	22.99	25.49	PASS
20	20850	1	#0	QAM16	23.63	26.13	PASS
20	20850	1	#Mid	QAM16	23.16	25.66	PASS
20	20850	1	#Max	QAM16	22.76	25.26	PASS
20	20850	50	#0	QAM16	22.16	24.66	PASS
20	20850	50	#Mid	QAM16	22.15	24.65	PASS
20	20850	50	#Max	QAM16	21.76	24.26	PASS
20	20850	100	#0	QAM16	21.98	24.48	PASS
20	21100	1	#0	QPSK	23.33	25.83	PASS
20	21100	1	#Mid	QPSK	23.98	26.48	PASS
20	21100	1	#Max	QPSK	24.35	26.85	PASS
20	21100	50	#0	QPSK	22.65	25.15	PASS
20	21100	50	#Mid	QPSK	22.62	25.12	PASS
20	21100	50	#Max	QPSK	23.24	25.74	PASS
20	21100	100	#0	QPSK	22.87	25.37	PASS
20	21100	1	#0	QAM16	22.22	24.72	PASS
20	21100	1	#Mid	QAM16	22.94	25.44	PASS
20	21100	1	#Max	QAM16	23.32	25.82	PASS
20	21100	50	#0	QAM16	21.57	24.07	PASS
20	21100	50	#Mid	QAM16	21.59	24.09	PASS
20	21100	50	#Max	QAM16	22.16	24.66	PASS
20	21100	100	#0	QAM16	21.90	24.40	PASS
20	21350	1	#0	QPSK	24.02	26.52	PASS
20	21350	1	#Mid	QPSK	23.50	26.00	PASS
20	21350	1	#Max	QPSK	23.56	26.06	PASS
20	21350	50	#0	QPSK	22.87	25.37	PASS
20	21350	50	#Mid	QPSK	22.89	25.39	PASS
20	21350	50	#Max	QPSK	22.68	25.18	PASS
20	21350	100	#0	QPSK	22.79	25.29	PASS
20	21350	1	#0	QAM16	22.95	25.45	PASS
20	21350	1	#Mid	QAM16	22.49	24.99	PASS
20	21350	1	#Max	QAM16	22.47	24.97	PASS
20	21350	50	#0	QAM16	21.91	24.41	PASS
20	21350	50	#Mid	QAM16	21.92	24.42	PASS
20	21350	50	#Max	QAM16	21.74	24.24	PASS
20	21350	100	#0	QAM16	21.73	24.23	PASS
5	20775	1	#0	QAM64	23.67	26.17	PASS
5	20775	1	#Mid	QAM64	23.61	26.11	PASS
5	20775	1	#Max	QAM64	23.46	25.96	PASS
5	20775	12	#0	QAM64	22.87	25.37	PASS
5	20775	12	#Mid	QAM64	22.87	25.37	PASS



5	20775	12	#Max	QAM64	22.74	25.24	PASS
5	20775	25	#0	QAM64	22.85	25.35	PASS
5	21100	1	#0	QAM64	23.13	25.63	PASS
5	21100	1	#Mid	QAM64	23.39	25.89	PASS
5	21100	1	#Max	QAM64	23.50	26.00	PASS
5	21100	12	#0	QAM64	22.27	24.77	PASS
5	21100	12	#Mid	QAM64	22.32	24.82	PASS
5	21100	12	#Max	QAM64	22.52	25.02	PASS
5	21100	25	#0	QAM64	22.39	24.89	PASS
5	21425	1	#0	QAM64	23.09	25.59	PASS
5	21425	1	#Mid	QAM64	23.05	25.55	PASS
5	21425	1	#Max	QAM64	23.11	25.61	PASS
5	21425	12	#0	QAM64	22.13	24.63	PASS
5	21425	12	#Mid	QAM64	22.17	24.67	PASS
5	21425	12	#Max	QAM64	22.17	24.67	PASS
5	21425	25	#0	QAM64	22.16	24.66	PASS
10	20800	1	#0	QAM64	22.88	25.38	PASS
10	20800	1	#Mid	QAM64	22.91	25.41	PASS
10	20800	1	#Max	QAM64	22.75	25.25	PASS
10	20800	25	#0	QAM64	21.91	24.41	PASS
10	20800	25	#Mid	QAM64	21.90	24.40	PASS
10	20800	25	#Max	QAM64	21.74	24.24	PASS
10	20800	50	#0	QAM64	21.74	24.24	PASS
10	21100	1	#0	QAM64	22.34	24.84	PASS
10	21100	1	#Mid	QAM64	22.54	25.04	PASS
10	21100	1	#Max	QAM64	22.86	25.36	PASS
10	21100	25	#0	QAM64	21.26	23.76	PASS
10	21100	25	#Mid	QAM64	21.29	23.79	PASS
10	21100	25	#Max	QAM64	21.68	24.18	PASS
10	21100	50	#0	QAM64	21.36	23.86	PASS
10	21400	1	#0	QAM64	21.99	24.49	PASS
10	21400	1	#Mid	QAM64	21.99	24.49	PASS
10	21400	1	#Max	QAM64	21.99	24.49	PASS
10	21400	25	#0	QAM64	21.08	23.58	PASS
10	21400	25	#Mid	QAM64	21.07	23.57	PASS
10	21400	25	#Max	QAM64	21.17	23.67	PASS
10	21400	50	#0	QAM64	21.11	23.61	PASS
15	20825	1	#0	QAM64	23.28	25.78	PASS
15	20825	1	#Mid	QAM64	22.70	25.20	PASS
15	20825	1	#Max	QAM64	22.49	24.99	PASS
15	20825	36	#0	QAM64	21.70	24.20	PASS
15	20825	36	#Mid	QAM64	21.74	24.24	PASS
15	20825	36	#Max	QAM64	21.45	23.95	PASS



15	20825	75	#0	QAM64	21.60	24.10	PASS
15	21100	1	#0	QAM64	22.15	24.65	PASS
15	21100	1	#Mid	QAM64	22.59	25.09	PASS
15	21100	1	#Max	QAM64	23.04	25.54	PASS
15	21100	36	#0	QAM64	21.18	23.68	PASS
15	21100	36	#Mid	QAM64	21.16	23.66	PASS
15	21100	36	#Max	QAM64	21.72	24.22	PASS
15	21100	75	#0	QAM64	21.39	23.89	PASS
15	21375	1	#0	QAM64	22.41	24.91	PASS
15	21375	1	#Mid	QAM64	22.28	24.78	PASS
15	21375	1	#Max	QAM64	22.30	24.80	PASS
15	21375	36	#0	QAM64	21.20	23.70	PASS
15	21375	36	#Mid	QAM64	21.19	23.69	PASS
15	21375	36	#Max	QAM64	21.19	23.69	PASS
15	21375	75	#0	QAM64	21.16	23.66	PASS
20	20850	1	#0	QAM64	23.09	25.59	PASS
20	20850	1	#Mid	QAM64	22.57	25.07	PASS
20	20850	1	#Max	QAM64	22.25	24.75	PASS
20	20850	50	#0	QAM64	21.64	24.14	PASS
20	20850	50	#Mid	QAM64	21.64	24.14	PASS
20	20850	50	#Max	QAM64	21.24	23.74	PASS
20	20850	100	#0	QAM64	21.43	23.93	PASS
20	21100	1	#0	QAM64	21.81	24.31	PASS
20	21100	1	#Mid	QAM64	22.44	24.94	PASS
20	21100	1	#Max	QAM64	22.77	25.27	PASS
20	21100	50	#0	QAM64	21.09	23.59	PASS
20	21100	50	#Mid	QAM64	21.07	23.57	PASS
20	21100	50	#Max	QAM64	21.73	24.23	PASS
20	21100	100	#0	QAM64	21.37	23.87	PASS
20	21350	1	#0	QAM64	22.47	24.97	PASS
20	21350	1	#Mid	QAM64	22.02	24.52	PASS
20	21350	1	#Max	QAM64	21.98	24.48	PASS
20	21350	50	#0	QAM64	21.42	23.92	PASS
20	21350	50	#Mid	QAM64	21.41	23.91	PASS
20	21350	50	#Max	QAM64	21.22	23.72	PASS
20	21350	100	#0	QAM64	21.20	23.70	PASS

LTE Band 38							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)	Verdict
5	37775	1	#0	QPSK	23.66	25.66	PASS
5	37775	1	#Mid	QPSK	23.75	25.75	PASS



5	37775	1	#Max	QPSK	23.78	25.78	PASS
5	37775	12	#0	QPSK	22.68	24.68	PASS
5	37775	12	#Mid	QPSK	22.68	24.68	PASS
5	37775	12	#Max	QPSK	22.75	24.75	PASS
5	37775	25	#0	QPSK	22.71	24.71	PASS
5	37775	1	#0	QAM16	23.00	25.00	PASS
5	37775	1	#Mid	QAM16	23.15	25.15	PASS
5	37775	1	#Max	QAM16	23.16	25.16	PASS
5	37775	12	#0	QAM16	21.70	23.70	PASS
5	37775	12	#Mid	QAM16	21.69	23.69	PASS
5	37775	12	#Max	QAM16	21.74	23.74	PASS
5	37775	25	#0	QAM16	21.76	23.76	PASS
5	38000	1	#0	QPSK	24.11	26.11	PASS
5	38000	1	#Mid	QPSK	24.17	26.17	PASS
5	38000	1	#Max	QPSK	24.18	26.18	PASS
5	38000	12	#0	QPSK	23.16	25.16	PASS
5	38000	12	#Mid	QPSK	23.18	25.18	PASS
5	38000	12	#Max	QPSK	23.19	25.19	PASS
5	38000	25	#0	QPSK	23.15	25.15	PASS
5	38000	1	#0	QAM16	23.33	25.33	PASS
5	38000	1	#Mid	QAM16	23.38	25.38	PASS
5	38000	1	#Max	QAM16	23.43	25.43	PASS
5	38000	12	#0	QAM16	22.12	24.12	PASS
5	38000	12	#Mid	QAM16	22.13	24.13	PASS
5	38000	12	#Max	QAM16	22.18	24.18	PASS
5	38000	25	#0	QAM16	22.13	24.13	PASS
5	38225	1	#0	QPSK	24.11	26.11	PASS
5	38225	1	#Mid	QPSK	24.09	26.09	PASS
5	38225	1	#Max	QPSK	23.98	25.98	PASS
5	38225	12	#0	QPSK	23.26	25.26	PASS
5	38225	12	#Mid	QPSK	23.25	25.25	PASS
5	38225	12	#Max	QPSK	23.19	25.19	PASS
5	38225	25	#0	QPSK	23.28	25.28	PASS
5	38225	1	#0	QAM16	23.53	25.53	PASS
5	38225	1	#Mid	QAM16	23.50	25.50	PASS
5	38225	1	#Max	QAM16	23.40	25.40	PASS
5	38225	12	#0	QAM16	22.33	24.33	PASS
5	38225	12	#Mid	QAM16	22.33	24.33	PASS
5	38225	12	#Max	QAM16	22.26	24.26	PASS
5	38225	25	#0	QAM16	22.25	24.25	PASS
10	37800	1	#0	QPSK	23.68	25.68	PASS
10	37800	1	#Mid	QPSK	23.77	25.77	PASS
10	37800	1	#Max	QPSK	23.92	25.92	PASS



10	37800	25	#0	QPSK	22.80	24.80	PASS
10	37800	25	#Mid	QPSK	22.78	24.78	PASS
10	37800	25	#Max	QPSK	22.94	24.94	PASS
10	37800	50	#0	QPSK	22.86	24.86	PASS
10	37800	1	#0	QAM16	23.22	25.22	PASS
10	37800	1	#Mid	QAM16	23.14	25.14	PASS
10	37800	1	#Max	QAM16	23.46	25.46	PASS
10	37800	25	#0	QAM16	21.88	23.88	PASS
10	37800	25	#Mid	QAM16	21.87	23.87	PASS
10	37800	25	#Max	QAM16	22.02	24.02	PASS
10	37800	50	#0	QAM16	21.88	23.88	PASS
10	38000	1	#0	QPSK	24.01	26.01	PASS
10	38000	1	#Mid	QPSK	24.06	26.06	PASS
10	38000	1	#Max	QPSK	24.09	26.09	PASS
10	38000	25	#0	QPSK	23.15	25.15	PASS
10	38000	25	#Mid	QPSK	23.14	25.14	PASS
10	38000	25	#Max	QPSK	23.26	25.26	PASS
10	38000	50	#0	QPSK	23.16	25.16	PASS
10	38000	1	#0	QAM16	23.24	25.24	PASS
10	38000	1	#Mid	QAM16	23.24	25.24	PASS
10	38000	1	#Max	QAM16	23.21	25.21	PASS
10	38000	25	#0	QAM16	22.18	24.18	PASS
10	38000	25	#Mid	QAM16	22.17	24.17	PASS
10	38000	25	#Max	QAM16	22.28	24.28	PASS
10	38000	50	#0	QAM16	22.14	24.14	PASS
10	38200	1	#0	QPSK	24.35	26.35	PASS
10	38200	1	#Mid	QPSK	24.27	26.27	PASS
10	38200	1	#Max	QPSK	24.23	26.23	PASS
10	38200	25	#0	QPSK	23.25	25.25	PASS
10	38200	25	#Mid	QPSK	23.26	25.26	PASS
10	38200	25	#Max	QPSK	23.27	25.27	PASS
10	38200	50	#0	QPSK	23.25	25.25	PASS
10	38200	1	#0	QAM16	23.24	25.24	PASS
10	38200	1	#Mid	QAM16	23.17	25.17	PASS
10	38200	1	#Max	QAM16	23.13	25.13	PASS
10	38200	25	#0	QAM16	22.26	24.26	PASS
10	38200	25	#Mid	QAM16	22.25	24.25	PASS
10	38200	25	#Max	QAM16	22.27	24.27	PASS
10	38200	50	#0	QAM16	22.24	24.24	PASS
15	37825	1	#0	QPSK	23.53	25.53	PASS
15	37825	1	#Mid	QPSK	23.76	25.76	PASS
15	37825	1	#Max	QPSK	23.98	25.98	PASS
15	37825	36	#0	QPSK	22.78	24.78	PASS



15	37825	36	#Mid	QPSK	22.77	24.77	PASS
15	37825	36	#Max	QPSK	23.06	25.06	PASS
15	37825	75	#0	QPSK	22.89	24.89	PASS
15	37825	1	#0	QAM16	23.14	25.14	PASS
15	37825	1	#Mid	QAM16	23.31	25.31	PASS
15	37825	1	#Max	QAM16	23.52	25.52	PASS
15	37825	36	#0	QAM16	21.83	23.83	PASS
15	37825	36	#Mid	QAM16	21.82	23.82	PASS
15	37825	36	#Max	QAM16	22.07	24.07	PASS
15	37825	75	#0	QAM16	21.95	23.95	PASS
15	38000	1	#0	QPSK	23.93	25.93	PASS
15	38000	1	#Mid	QPSK	24.03	26.03	PASS
15	38000	1	#Max	QPSK	24.19	26.19	PASS
15	38000	36	#0	QPSK	23.14	25.14	PASS
15	38000	36	#Mid	QPSK	23.16	25.16	PASS
15	38000	36	#Max	QPSK	23.21	25.21	PASS
15	38000	75	#0	QPSK	23.07	25.07	PASS
15	38000	1	#0	QAM16	23.15	25.15	PASS
15	38000	1	#Mid	QAM16	23.23	25.23	PASS
15	38000	1	#Max	QAM16	23.28	25.28	PASS
15	38000	36	#0	QAM16	22.16	24.16	PASS
15	38000	36	#Mid	QAM16	22.15	24.15	PASS
15	38000	36	#Max	QAM16	22.23	24.23	PASS
15	38000	75	#0	QAM16	22.09	24.09	PASS
15	38175	1	#0	QPSK	24.26	26.26	PASS
15	38175	1	#Mid	QPSK	24.27	26.27	PASS
15	38175	1	#Max	QPSK	24.17	26.17	PASS
15	38175	36	#0	QPSK	23.26	25.26	PASS
15	38175	36	#Mid	QPSK	23.25	25.25	PASS
15	38175	36	#Max	QPSK	23.29	25.29	PASS
15	38175	75	#0	QPSK	23.22	25.22	PASS
15	38175	1	#0	QAM16	23.45	25.45	PASS
15	38175	1	#Mid	QAM16	23.44	25.44	PASS
15	38175	1	#Max	QAM16	23.33	25.33	PASS
15	38175	36	#0	QAM16	22.26	24.26	PASS
15	38175	36	#Mid	QAM16	22.28	24.28	PASS
15	38175	36	#Max	QAM16	22.23	24.23	PASS
15	38175	75	#0	QAM16	22.24	24.24	PASS
20	37850	1	#0	QPSK	23.65	25.65	PASS
20	37850	1	#Mid	QPSK	23.87	25.87	PASS
20	37850	1	#Max	QPSK	24.06	26.06	PASS
20	37850	50	#0	QPSK	22.85	24.85	PASS
20	37850	50	#Mid	QPSK	22.85	24.85	PASS



20	37850	50	#Max	QPSK	23.14	25.14	PASS
20	37850	100	#0	QPSK	23.02	25.02	PASS
20	37850	1	#0	QAM16	22.92	24.92	PASS
20	37850	1	#Mid	QAM16	23.19	25.19	PASS
20	37850	1	#Max	QAM16	23.32	25.32	PASS
20	37850	50	#0	QAM16	21.84	23.84	PASS
20	37850	50	#Mid	QAM16	21.87	23.87	PASS
20	37850	50	#Max	QAM16	22.12	24.12	PASS
20	37850	100	#0	QAM16	22.05	24.05	PASS
20	38000	1	#0	QPSK	24.01	26.01	PASS
20	38000	1	#Mid	QPSK	24.10	26.10	PASS
20	38000	1	#Max	QPSK	24.20	26.20	PASS
20	38000	50	#0	QPSK	23.13	25.13	PASS
20	38000	50	#Mid	QPSK	23.14	25.14	PASS
20	38000	50	#Max	QPSK	23.26	25.26	PASS
20	38000	100	#0	QPSK	23.17	25.17	PASS
20	38000	1	#0	QAM16	22.99	24.99	PASS
20	38000	1	#Mid	QAM16	23.02	25.02	PASS
20	38000	1	#Max	QAM16	23.24	25.24	PASS
20	38000	50	#0	QAM16	22.12	24.12	PASS
20	38000	50	#Mid	QAM16	22.19	24.19	PASS
20	38000	50	#Max	QAM16	22.21	24.21	PASS
20	38000	100	#0	QAM16	22.22	24.22	PASS
20	38150	1	#0	QPSK	24.18	26.18	PASS
20	38150	1	#Mid	QPSK	24.22	26.22	PASS
20	38150	1	#Max	QPSK	24.07	26.07	PASS
20	38150	50	#0	QPSK	23.26	25.26	PASS
20	38150	50	#Mid	QPSK	23.25	25.25	PASS
20	38150	50	#Max	QPSK	23.30	25.30	PASS
20	38150	100	#0	QPSK	23.33	25.33	PASS
20	38150	1	#0	QAM16	22.82	24.82	PASS
20	38150	1	#Mid	QAM16	22.88	24.88	PASS
20	38150	1	#Max	QAM16	22.77	24.77	PASS
20	38150	50	#0	QAM16	22.25	24.25	PASS
20	38150	50	#Mid	QAM16	22.27	24.27	PASS
20	38150	50	#Max	QAM16	22.33	24.33	PASS
20	38150	100	#0	QAM16	22.29	24.29	PASS
5	37775	1	#0	QAM64	23.15	25.15	PASS
5	37775	1	#Mid	QAM64	23.22	25.22	PASS
5	37775	1	#Max	QAM64	23.26	25.26	PASS
5	37775	12	#0	QAM64	22.18	24.18	PASS
5	37775	12	#Mid	QAM64	22.17	24.17	PASS
5	37775	12	#Max	QAM64	22.26	24.26	PASS



5	37775	25	#0	QAM64	22.22	24.22	PASS
5	38000	1	#0	QAM64	23.62	25.62	PASS
5	38000	1	#Mid	QAM64	23.69	25.69	PASS
5	38000	1	#Max	QAM64	23.72	25.72	PASS
5	38000	12	#0	QAM64	22.65	24.65	PASS
5	38000	12	#Mid	QAM64	22.69	24.69	PASS
5	38000	12	#Max	QAM64	22.72	24.72	PASS
5	38000	25	#0	QAM64	22.66	24.66	PASS
5	38225	1	#0	QAM64	23.61	25.61	PASS
5	38225	1	#Mid	QAM64	23.60	25.60	PASS
5	38225	1	#Max	QAM64	23.48	25.48	PASS
5	38225	12	#0	QAM64	22.76	24.76	PASS
5	38225	12	#Mid	QAM64	22.75	24.75	PASS
5	38225	12	#Max	QAM64	22.68	24.68	PASS
5	38225	25	#0	QAM64	22.78	24.78	PASS
10	37800	1	#0	QAM64	22.68	24.68	PASS
10	37800	1	#Mid	QAM64	22.63	24.63	PASS
10	37800	1	#Max	QAM64	23.00	25.00	PASS
10	37800	25	#0	QAM64	21.37	23.37	PASS
10	37800	25	#Mid	QAM64	21.39	23.39	PASS
10	37800	25	#Max	QAM64	21.50	23.50	PASS
10	37800	50	#0	QAM64	21.36	23.36	PASS
10	38000	1	#0	QAM64	22.67	24.67	PASS
10	38000	1	#Mid	QAM64	22.70	24.70	PASS
10	38000	1	#Max	QAM64	22.73	24.73	PASS
10	38000	25	#0	QAM64	21.69	23.69	PASS
10	38000	25	#Mid	QAM64	21.68	23.68	PASS
10	38000	25	#Max	QAM64	21.76	23.76	PASS
10	38000	50	#0	QAM64	21.61	23.61	PASS
10	38200	1	#0	QAM64	22.76	24.76	PASS
10	38200	1	#Mid	QAM64	22.69	24.69	PASS
10	38200	1	#Max	QAM64	22.68	24.68	PASS
10	38200	25	#0	QAM64	21.78	23.78	PASS
10	38200	25	#Mid	QAM64	21.79	23.79	PASS
10	38200	25	#Max	QAM64	21.80	23.80	PASS
10	38200	50	#0	QAM64	21.75	23.75	PASS
15	37825	1	#0	QAM64	22.58	24.58	PASS
15	37825	1	#Mid	QAM64	22.89	24.89	PASS
15	37825	1	#Max	QAM64	23.03	25.03	PASS
15	37825	36	#0	QAM64	21.36	23.36	PASS
15	37825	36	#Mid	QAM64	21.35	23.35	PASS
15	37825	36	#Max	QAM64	21.60	23.60	PASS
15	37825	75	#0	QAM64	21.47	23.47	PASS





15	38000	1	#0	QAM64	22.60	24.60	PASS
15	38000	1	#Mid	QAM64	22.71	24.71	PASS
15	38000	1	#Max	QAM64	22.81	24.81	PASS
15	38000	36	#0	QAM64	21.66	23.66	PASS
15	38000	36	#Mid	QAM64	21.66	23.66	PASS
15	38000	36	#Max	QAM64	21.77	23.77	PASS
15	38000	75	#0	QAM64	21.66	23.66	PASS
15	38175	1	#0	QAM64	22.90	24.90	PASS
15	38175	1	#Mid	QAM64	23.00	25.00	PASS
15	38175	1	#Max	QAM64	22.84	24.84	PASS
15	38175	36	#0	QAM64	21.77	23.77	PASS
15	38175	36	#Mid	QAM64	21.79	23.79	PASS
15	38175	36	#Max	QAM64	21.77	23.77	PASS
15	38175	75	#0	QAM64	21.74	23.74	PASS
20	37850	1	#0	QAM64	22.35	24.35	PASS
20	37850	1	#Mid	QAM64	22.71	24.71	PASS
20	37850	1	#Max	QAM64	22.82	24.82	PASS
20	37850	50	#0	QAM64	21.39	23.39	PASS
20	37850	50	#Mid	QAM64	21.39	23.39	PASS
20	37850	50	#Max	QAM64	21.64	23.64	PASS
20	37850	100	#0	QAM64	21.54	23.54	PASS
20	38000	1	#0	QAM64	22.46	24.46	PASS
20	38000	1	#Mid	QAM64	22.65	24.65	PASS
20	38000	1	#Max	QAM64	22.74	24.74	PASS
20	38000	50	#0	QAM64	21.64	23.64	PASS
20	38000	50	#Mid	QAM64	21.66	23.66	PASS
20	38000	50	#Max	QAM64	21.72	23.72	PASS
20	38000	100	#0	QAM64	21.71	23.71	PASS
20	38150	1	#0	QAM64	22.30	24.30	PASS
20	38150	1	#Mid	QAM64	22.41	24.41	PASS
20	38150	1	#Max	QAM64	22.31	24.31	PASS
20	38150	50	#0	QAM64	21.79	23.79	PASS
20	38150	50	#Mid	QAM64	21.79	23.79	PASS
20	38150	50	#Max	QAM64	21.86	23.86	PASS
20	38150	100	#0	QAM64	21.83	23.83	PASS

LTE Band 66							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)	Verdict
1.4	131979	1	#0	QPSK	24.37	26.37	PASS
1.4	131979	1	#Mid	QPSK	24.53	26.53	PASS
1.4	131979	1	#Max	QPSK	24.42	26.42	PASS
1.4	131979	3	#0	QPSK	24.38	26.38	PASS



1.4	131979	3	#Mid	QPSK	24.43	26.43	PASS
1.4	131979	3	#Max	QPSK	24.40	26.40	PASS
1.4	131979	6	#0	QPSK	23.44	25.44	PASS
1.4	131979	1	#0	QAM16	23.43	25.43	PASS
1.4	131979	1	#Mid	QAM16	23.53	25.53	PASS
1.4	131979	1	#Max	QAM16	23.43	25.43	PASS
1.4	131979	3	#0	QAM16	23.66	25.66	PASS
1.4	131979	3	#Mid	QAM16	23.65	25.65	PASS
1.4	131979	3	#Max	QAM16	23.67	25.67	PASS
1.4	131979	6	#0	QAM16	23.70	25.70	PASS
1.4	132322	1	#0	QPSK	23.05	25.05	PASS
1.4	132322	1	#Mid	QPSK	23.13	25.13	PASS
1.4	132322	1	#Max	QPSK	23.10	25.10	PASS
1.4	132322	3	#0	QPSK	23.09	25.09	PASS
1.4	132322	3	#Mid	QPSK	23.08	25.08	PASS
1.4	132322	3	#Max	QPSK	23.07	25.07	PASS
1.4	132322	6	#0	QPSK	22.17	24.17	PASS
1.4	132322	1	#0	QAM16	22.23	24.23	PASS
1.4	132322	1	#Mid	QAM16	22.38	24.38	PASS
1.4	132322	1	#Max	QAM16	22.30	24.30	PASS
1.4	132322	3	#0	QAM16	22.21	24.21	PASS
1.4	132322	3	#Mid	QAM16	22.21	24.21	PASS
1.4	132322	3	#Max	QAM16	22.22	24.22	PASS
1.4	132322	6	#0	QAM16	21.16	23.16	PASS
1.4	132665	1	#0	QPSK	24.37	26.37	PASS
1.4	132665	1	#Mid	QPSK	24.36	26.36	PASS
1.4	132665	1	#Max	QPSK	24.27	26.27	PASS
1.4	132665	3	#0	QPSK	24.38	26.38	PASS
1.4	132665	3	#Mid	QPSK	24.38	26.38	PASS
1.4	132665	3	#Max	QPSK	24.27	26.27	PASS
1.4	132665	6	#0	QPSK	23.37	25.37	PASS
1.4	132665	1	#0	QAM16	23.35	25.35	PASS
1.4	132665	1	#Mid	QAM16	23.39	25.39	PASS
1.4	132665	1	#Max	QAM16	23.19	25.19	PASS
1.4	132665	3	#0	QAM16	23.55	25.55	PASS
1.4	132665	3	#Mid	QAM16	23.54	25.54	PASS
1.4	132665	3	#Max	QAM16	23.46	25.46	PASS
1.4	132665	6	#0	QAM16	22.29	24.29	PASS
3	131987	1	#0	QPSK	25.52	27.52	PASS
3	131987	1	#Mid	QPSK	25.65	27.65	PASS
3	131987	1	#Max	QPSK	25.57	27.57	PASS
3	131987	8	#0	QPSK	24.50	26.50	PASS
3	131987	8	#Mid	QPSK	23.53	25.53	PASS



3	131987	8	#Max	QPSK	23.43	25.43	PASS
3	131987	15	#0	QPSK	23.55	25.55	PASS
3	131987	1	#0	QAM16	23.70	25.70	PASS
3	131987	1	#Mid	QAM16	23.70	25.70	PASS
3	131987	1	#Max	QAM16	23.68	25.68	PASS
3	131987	8	#0	QAM16	22.60	24.60	PASS
3	131987	8	#Mid	QAM16	22.55	24.55	PASS
3	131987	8	#Max	QAM16	22.53	24.53	PASS
3	131987	15	#0	QAM16	22.44	24.44	PASS
3	132322	1	#0	QPSK	24.00	26.00	PASS
3	132322	1	#Mid	QPSK	24.14	26.14	PASS
3	132322	1	#Max	QPSK	24.12	26.12	PASS
3	132322	8	#0	QPSK	23.19	25.19	PASS
3	132322	8	#Mid	QPSK	23.19	25.19	PASS
3	132322	8	#Max	QPSK	23.27	25.27	PASS
3	132322	15	#0	QPSK	23.28	25.28	PASS
3	132322	1	#0	QAM16	23.33	25.33	PASS
3	132322	1	#Mid	QAM16	23.47	25.47	PASS
3	132322	1	#Max	QAM16	23.41	25.41	PASS
3	132322	8	#0	QAM16	22.16	24.16	PASS
3	132322	8	#Mid	QAM16	22.14	24.14	PASS
3	132322	8	#Max	QAM16	22.24	24.24	PASS
3	132322	15	#0	QAM16	22.19	24.19	PASS
3	132657	1	#0	QPSK	24.11	26.11	PASS
3	132657	1	#Mid	QPSK	24.20	26.20	PASS
3	132657	1	#Max	QPSK	24.10	26.10	PASS
3	132657	8	#0	QPSK	23.11	25.11	PASS
3	132657	8	#Mid	QPSK	23.07	25.07	PASS
3	132657	8	#Max	QPSK	23.10	25.10	PASS
3	132657	15	#0	QPSK	23.14	25.14	PASS
3	132657	1	#0	QAM16	23.03	25.03	PASS
3	132657	1	#Mid	QAM16	23.08	25.08	PASS
3	132657	1	#Max	QAM16	23.02	25.02	PASS
3	132657	8	#0	QAM16	22.13	24.13	PASS
3	132657	8	#Mid	QAM16	22.14	24.14	PASS
3	132657	8	#Max	QAM16	22.09	24.09	PASS
3	132657	15	#0	QAM16	22.12	24.12	PASS
5	131997	1	#0	QPSK	24.43	26.43	PASS
5	131997	1	#Mid	QPSK	24.37	26.37	PASS
5	131997	1	#Max	QPSK	24.33	26.33	PASS
5	131997	12	#0	QPSK	23.54	25.54	PASS
5	131997	12	#Mid	QPSK	23.57	25.57	PASS
5	131997	12	#Max	QPSK	23.47	25.47	PASS



5	131997	25	#0	QPSK	23.49	25.49	PASS
5	131997	1	#0	QAM16	23.75	25.75	PASS
5	131997	1	#Mid	QAM16	23.74	25.74	PASS
5	131997	1	#Max	QAM16	23.63	25.63	PASS
5	131997	12	#0	QAM16	22.54	24.54	PASS
5	131997	12	#Mid	QAM16	22.58	24.58	PASS
5	131997	12	#Max	QAM16	22.51	24.51	PASS
5	131997	25	#0	QAM16	22.54	24.54	PASS
5	132322	1	#0	QPSK	24.07	26.07	PASS
5	132322	1	#Mid	QPSK	24.22	26.22	PASS
5	132322	1	#Max	QPSK	24.26	26.26	PASS
5	132322	12	#0	QPSK	23.23	25.23	PASS
5	132322	12	#Mid	QPSK	23.20	25.20	PASS
5	132322	12	#Max	QPSK	23.30	25.30	PASS
5	132322	25	#0	QPSK	23.29	25.29	PASS
5	132322	1	#0	QAM16	23.28	25.28	PASS
5	132322	1	#Mid	QAM16	23.50	25.50	PASS
5	132322	1	#Max	QAM16	23.53	25.53	PASS
5	132322	12	#0	QAM16	22.17	24.17	PASS
5	132322	12	#Mid	QAM16	22.18	24.18	PASS
5	132322	12	#Max	QAM16	22.33	24.33	PASS
5	132322	25	#0	QAM16	22.28	24.28	PASS
5	132647	1	#0	QPSK	24.00	26.00	PASS
5	132647	1	#Mid	QPSK	23.92	25.92	PASS
5	132647	1	#Max	QPSK	23.78	25.78	PASS
5	132647	12	#0	QPSK	23.08	25.08	PASS
5	132647	12	#Mid	QPSK	23.10	25.10	PASS
5	132647	12	#Max	QPSK	23.10	25.10	PASS
5	132647	25	#0	QPSK	23.10	25.10	PASS
5	132647	1	#0	QAM16	23.33	25.33	PASS
5	132647	1	#Mid	QAM16	23.36	25.36	PASS
5	132647	1	#Max	QAM16	23.25	25.25	PASS
5	132647	12	#0	QAM16	22.20	24.20	PASS
5	132647	12	#Mid	QAM16	22.18	24.18	PASS
5	132647	12	#Max	QAM16	22.15	24.15	PASS
5	132647	25	#0	QAM16	22.15	24.15	PASS
10	132022	1	#0	QPSK	24.28	26.28	PASS
10	132022	1	#Mid	QPSK	24.21	26.21	PASS
10	132022	1	#Max	QPSK	24.10	26.10	PASS
10	132022	25	#0	QPSK	23.50	25.50	PASS
10	132022	25	#Mid	QPSK	23.53	25.53	PASS
10	132022	25	#Max	QPSK	23.35	25.35	PASS
10	132022	50	#0	QPSK	23.41	25.41	PASS



10	132022	1	#0	QAM16	23.76	25.76	PASS
10	132022	1	#Mid	QAM16	23.61	25.61	PASS
10	132022	1	#Max	QAM16	23.48	25.48	PASS
10	132022	25	#0	QAM16	22.53	24.53	PASS
10	132022	25	#Mid	QAM16	22.56	24.56	PASS
10	132022	25	#Max	QAM16	22.46	24.46	PASS
10	132022	50	#0	QAM16	22.44	24.44	PASS
10	132322	1	#0	QPSK	23.98	25.98	PASS
10	132322	1	#Mid	QPSK	24.04	26.04	PASS
10	132322	1	#Max	QPSK	24.21	26.21	PASS
10	132322	25	#0	QPSK	23.13	25.13	PASS
10	132322	25	#Mid	QPSK	23.18	25.18	PASS
10	132322	25	#Max	QPSK	23.34	25.34	PASS
10	132322	50	#0	QPSK	23.30	25.30	PASS
10	132322	1	#0	QAM16	23.30	25.30	PASS
10	132322	1	#Mid	QAM16	23.27	25.27	PASS
10	132322	1	#Max	QAM16	23.52	25.52	PASS
10	132322	25	#0	QAM16	22.18	24.18	PASS
10	132322	25	#Mid	QAM16	22.16	24.16	PASS
10	132322	25	#Max	QAM16	22.37	24.37	PASS
10	132322	50	#0	QAM16	22.27	24.27	PASS
10	132622	1	#0	QPSK	24.33	26.33	PASS
10	132622	1	#Mid	QPSK	24.04	26.04	PASS
10	132622	1	#Max	QPSK	24.01	26.01	PASS
10	132622	25	#0	QPSK	23.21	25.21	PASS
10	132622	25	#Mid	QPSK	23.23	25.23	PASS
10	132622	25	#Max	QPSK	23.11	25.11	PASS
10	132622	50	#0	QPSK	23.13	25.13	PASS
10	132622	1	#0	QAM16	23.24	25.24	PASS
10	132622	1	#Mid	QAM16	23.03	25.03	PASS
10	132622	1	#Max	QAM16	23.02	25.02	PASS
10	132622	25	#0	QAM16	22.20	24.20	PASS
10	132622	25	#Mid	QAM16	22.18	24.18	PASS
10	132622	25	#Max	QAM16	22.13	24.13	PASS
10	132622	50	#0	QAM16	22.12	24.12	PASS
15	132047	1	#0	QPSK	24.33	26.33	PASS
15	132047	1	#Mid	QPSK	24.24	26.24	PASS
15	132047	1	#Max	QPSK	23.97	25.97	PASS
15	132047	36	#0	QPSK	23.42	25.42	PASS
15	132047	36	#Mid	QPSK	23.37	25.37	PASS
15	132047	36	#Max	QPSK	23.28	25.28	PASS
15	132047	75	#0	QPSK	23.44	25.44	PASS
15	132047	1	#0	QAM16	23.76	25.76	PASS



15	132047	1	#Mid	QAM16	23.71	25.71	PASS
15	132047	1	#Max	QAM16	23.43	25.43	PASS
15	132047	36	#0	QAM16	22.44	24.44	PASS
15	132047	36	#Mid	QAM16	22.50	24.50	PASS
15	132047	36	#Max	QAM16	22.36	24.36	PASS
15	132047	75	#0	QAM16	22.45	24.45	PASS
15	132322	1	#0	QPSK	23.92	25.92	PASS
15	132322	1	#Mid	QPSK	24.13	26.13	PASS
15	132322	1	#Max	QPSK	24.38	26.38	PASS
15	132322	36	#0	QPSK	23.10	25.10	PASS
15	132322	36	#Mid	QPSK	23.12	25.12	PASS
15	132322	36	#Max	QPSK	23.46	25.46	PASS
15	132322	75	#0	QPSK	23.34	25.34	PASS
15	132322	1	#0	QAM16	23.21	25.21	PASS
15	132322	1	#Mid	QAM16	23.44	25.44	PASS
15	132322	1	#Max	QAM16	23.78	25.78	PASS
15	132322	36	#0	QAM16	22.08	24.08	PASS
15	132322	36	#Mid	QAM16	22.10	24.10	PASS
15	132322	36	#Max	QAM16	22.41	24.41	PASS
15	132322	75	#0	QAM16	22.35	24.35	PASS
15	132597	1	#0	QPSK	24.41	26.41	PASS
15	132597	1	#Mid	QPSK	24.14	26.14	PASS
15	132597	1	#Max	QPSK	23.99	25.99	PASS
15	132597	36	#0	QPSK	23.32	25.32	PASS
15	132597	36	#Mid	QPSK	23.34	25.34	PASS
15	132597	36	#Max	QPSK	23.17	25.17	PASS
15	132597	75	#0	QPSK	23.11	25.11	PASS
15	132597	1	#0	QAM16	23.62	25.62	PASS
15	132597	1	#Mid	QAM16	23.36	25.36	PASS
15	132597	1	#Max	QAM16	23.16	25.16	PASS
15	132597	36	#0	QAM16	22.37	24.37	PASS
15	132597	36	#Mid	QAM16	22.34	24.34	PASS
15	132597	36	#Max	QAM16	22.12	24.12	PASS
15	132597	75	#0	QAM16	22.12	24.12	PASS
20	132072	1	#0	QPSK	24.57	26.57	PASS
20	132072	1	#Mid	QPSK	24.27	26.27	PASS
20	132072	1	#Max	QPSK	24.08	26.08	PASS
20	132072	50	#0	QPSK	23.38	25.38	PASS
20	132072	50	#Mid	QPSK	23.41	25.41	PASS
20	132072	50	#Max	QPSK	23.26	25.26	PASS
20	132072	100	#0	QPSK	23.42	25.42	PASS
20	132072	1	#0	QAM16	23.87	25.87	PASS
20	132072	1	#Mid	QAM16	23.52	25.52	PASS



20	132072	1	#Max	QAM16	23.30	25.30	PASS
20	132072	50	#0	QAM16	22.46	24.46	PASS
20	132072	50	#Mid	QAM16	22.45	24.45	PASS
20	132072	50	#Max	QAM16	22.27	24.27	PASS
20	132072	100	#0	QAM16	22.33	24.33	PASS
20	132322	1	#0	QPSK	24.02	26.02	PASS
20	132322	1	#Mid	QPSK	24.19	26.19	PASS
20	132322	1	#Max	QPSK	24.51	26.51	PASS
20	132322	50	#0	QPSK	23.16	25.16	PASS
20	132322	50	#Mid	QPSK	23.13	25.13	PASS
20	132322	50	#Max	QPSK	23.52	25.52	PASS
20	132322	100	#0	QPSK	23.37	25.37	PASS
20	132322	1	#0	QAM16	23.04	25.04	PASS
20	132322	1	#Mid	QAM16	23.22	25.22	PASS
20	132322	1	#Max	QAM16	23.60	25.60	PASS
20	132322	50	#0	QAM16	22.09	24.09	PASS
20	132322	50	#Mid	QAM16	22.14	24.14	PASS
20	132322	50	#Max	QAM16	22.48	24.48	PASS
20	132322	100	#0	QAM16	22.39	24.39	PASS
20	132572	1	#0	QPSK	24.59	26.59	PASS
20	132572	1	#Mid	QPSK	24.10	26.10	PASS
20	132572	1	#Max	QPSK	23.80	25.80	PASS
20	132572	50	#0	QPSK	23.51	25.51	PASS
20	132572	50	#Mid	QPSK	23.52	25.52	PASS
20	132572	50	#Max	QPSK	23.09	25.09	PASS
20	132572	100	#0	QPSK	23.30	25.30	PASS
20	132572	1	#0	QAM16	23.62	25.62	PASS
20	132572	1	#Mid	QAM16	23.27	25.27	PASS
20	132572	1	#Max	QAM16	22.79	24.79	PASS
20	132572	50	#0	QAM16	22.59	24.59	PASS
20	132572	50	#Mid	QAM16	22.57	24.57	PASS
20	132572	50	#Max	QAM16	22.21	24.21	PASS
20	132572	100	#0	QAM16	22.31	24.31	PASS
1.4	131979	1	#0	QAM64	22.89	24.89	PASS
1.4	131979	1	#Mid	QAM64	23.01	25.01	PASS
1.4	131979	1	#Max	QAM64	22.94	24.94	PASS
1.4	131979	3	#0	QAM64	23.19	25.19	PASS
1.4	131979	3	#Mid	QAM64	23.20	25.20	PASS
1.4	131979	3	#Max	QAM64	23.20	25.20	PASS
1.4	131979	6	#0	QAM64	22.00	24.00	PASS
1.4	132322	1	#0	QAM64	22.75	24.75	PASS
1.4	132322	1	#Mid	QAM64	22.90	24.90	PASS
1.4	132322	1	#Max	QAM64	22.84	24.84	PASS



1.4	132322	3	#0	QAM64	22.75	24.75	PASS
1.4	132322	3	#Mid	QAM64	22.72	24.72	PASS
1.4	132322	3	#Max	QAM64	22.74	24.74	PASS
1.4	132322	6	#0	QAM64	21.62	23.62	PASS
1.4	132665	1	#0	QAM64	22.48	24.48	PASS
1.4	132665	1	#Mid	QAM64	22.58	24.58	PASS
1.4	132665	1	#Max	QAM64	22.46	24.46	PASS
1.4	132665	3	#0	QAM64	22.74	24.74	PASS
1.4	132665	3	#Mid	QAM64	22.74	24.74	PASS
1.4	132665	3	#Max	QAM64	22.76	24.76	PASS
1.4	132665	6	#0	QAM64	21.55	23.55	PASS
3	131987	1	#0	QAM64	23.22	25.22	PASS
3	131987	1	#Mid	QAM64	23.26	25.26	PASS
3	131987	1	#Max	QAM64	23.11	25.11	PASS
3	131987	8	#0	QAM64	22.09	24.09	PASS
3	131987	8	#Mid	QAM64	22.01	24.01	PASS
3	131987	8	#Max	QAM64	22.04	24.04	PASS
3	131987	15	#0	QAM64	22.04	24.04	PASS
3	132322	1	#0	QAM64	22.82	24.82	PASS
3	132322	1	#Mid	QAM64	23.03	25.03	PASS
3	132322	1	#Max	QAM64	22.95	24.95	PASS
3	132322	8	#0	QAM64	21.71	23.71	PASS
3	132322	8	#Mid	QAM64	21.70	23.70	PASS
3	132322	8	#Max	QAM64	21.83	23.83	PASS
3	132322	15	#0	QAM64	21.75	23.75	PASS
3	132657	1	#0	QAM64	22.63	24.63	PASS
3	132657	1	#Mid	QAM64	22.67	24.67	PASS
3	132657	1	#Max	QAM64	22.60	24.60	PASS
3	132657	8	#0	QAM64	21.71	23.71	PASS
3	132657	8	#Mid	QAM64	21.72	23.72	PASS
3	132657	8	#Max	QAM64	21.74	23.74	PASS
3	132657	15	#0	QAM64	21.69	23.69	PASS
5	131997	1	#0	QAM64	23.93	25.93	PASS
5	131997	1	#Mid	QAM64	23.94	25.94	PASS
5	131997	1	#Max	QAM64	23.87	25.87	PASS
5	131997	12	#0	QAM64	23.08	25.08	PASS
5	131997	12	#Mid	QAM64	23.06	25.06	PASS
5	131997	12	#Max	QAM64	23.01	25.01	PASS
5	131997	25	#0	QAM64	23.06	25.06	PASS
5	132322	1	#0	QAM64	23.62	25.62	PASS
5	132322	1	#Mid	QAM64	23.77	25.77	PASS
5	132322	1	#Max	QAM64	23.81	25.81	PASS
5	132322	12	#0	QAM64	22.71	24.71	PASS





5	132322	12	#Mid	QAM64	22.72	24.72	PASS
5	132322	12	#Max	QAM64	22.81	24.81	PASS
5	132322	25	#0	QAM64	22.76	24.76	PASS
5	132647	1	#0	QAM64	23.50	25.50	PASS
5	132647	1	#Mid	QAM64	23.49	25.49	PASS
5	132647	1	#Max	QAM64	23.34	25.34	PASS
5	132647	12	#0	QAM64	22.64	24.64	PASS
5	132647	12	#Mid	QAM64	22.68	24.68	PASS
5	132647	12	#Max	QAM64	22.64	24.64	PASS
5	132647	25	#0	QAM64	22.65	24.65	PASS
10	132022	1	#0	QAM64	23.33	25.33	PASS
10	132022	1	#Mid	QAM64	23.19	25.19	PASS
10	132022	1	#Max	QAM64	23.08	25.08	PASS
10	132022	25	#0	QAM64	22.07	24.07	PASS
10	132022	25	#Mid	QAM64	22.11	24.11	PASS
10	132022	25	#Max	QAM64	22.01	24.01	PASS
10	132022	50	#0	QAM64	21.98	23.98	PASS
10	132322	1	#0	QAM64	22.76	24.76	PASS
10	132322	1	#Mid	QAM64	22.71	24.71	PASS
10	132322	1	#Max	QAM64	23.04	25.04	PASS
10	132322	25	#0	QAM64	21.68	23.68	PASS
10	132322	25	#Mid	QAM64	21.69	23.69	PASS
10	132322	25	#Max	QAM64	21.94	23.94	PASS
10	132322	50	#0	QAM64	21.78	23.78	PASS
10	132622	1	#0	QAM64	22.75	24.75	PASS
10	132622	1	#Mid	QAM64	22.53	24.53	PASS
10	132622	1	#Max	QAM64	22.55	24.55	PASS
10	132622	25	#0	QAM64	21.73	23.73	PASS
10	132622	25	#Mid	QAM64	21.86	23.86	PASS
10	132622	25	#Max	QAM64	21.69	23.69	PASS
10	132622	50	#0	QAM64	21.67	23.67	PASS
15	132047	1	#0	QAM64	23.30	25.30	PASS
15	132047	1	#Mid	QAM64	23.20	25.20	PASS
15	132047	1	#Max	QAM64	22.99	24.99	PASS
15	132047	36	#0	QAM64	22.00	24.00	PASS
15	132047	36	#Mid	QAM64	21.94	23.94	PASS
15	132047	36	#Max	QAM64	21.88	23.88	PASS
15	132047	75	#0	QAM64	21.98	23.98	PASS
15	132322	1	#0	QAM64	22.72	24.72	PASS
15	132322	1	#Mid	QAM64	22.95	24.95	PASS
15	132322	1	#Max	QAM64	23.23	25.23	PASS
15	132322	36	#0	QAM64	21.59	23.59	PASS
15	132322	36	#Mid	QAM64	21.62	23.62	PASS



15	132322	36	#Max	QAM64	21.96	23.96	PASS
15	132322	75	#0	QAM64	21.89	23.89	PASS
15	132597	1	#0	QAM64	23.14	25.14	PASS
15	132597	1	#Mid	QAM64	22.83	24.83	PASS
15	132597	1	#Max	QAM64	22.69	24.69	PASS
15	132597	36	#0	QAM64	21.93	23.93	PASS
15	132597	36	#Mid	QAM64	21.89	23.89	PASS
15	132597	36	#Max	QAM64	21.68	23.68	PASS
15	132597	75	#0	QAM64	21.76	23.76	PASS
20	132072	1	#0	QAM64	23.26	25.26	PASS
20	132072	1	#Mid	QAM64	22.98	24.98	PASS
20	132072	1	#Max	QAM64	22.91	24.91	PASS
20	132072	50	#0	QAM64	22.01	24.01	PASS
20	132072	50	#Mid	QAM64	21.99	23.99	PASS
20	132072	50	#Max	QAM64	21.82	23.82	PASS
20	132072	100	#0	QAM64	21.89	23.89	PASS
20	132322	1	#0	QAM64	22.59	24.59	PASS
20	132322	1	#Mid	QAM64	22.69	24.69	PASS
20	132322	1	#Max	QAM64	23.16	25.16	PASS
20	132322	50	#0	QAM64	21.59	23.59	PASS
20	132322	50	#Mid	QAM64	21.65	23.65	PASS
20	132322	50	#Max	QAM64	22.02	24.02	PASS
20	132322	100	#0	QAM64	21.90	23.90	PASS
20	132572	1	#0	QAM64	22.96	24.96	PASS
20	132572	1	#Mid	QAM64	22.64	24.64	PASS
20	132572	1	#Max	QAM64	22.24	24.24	PASS
20	132572	50	#0	QAM64	22.11	24.11	PASS
20	132572	50	#Mid	QAM64	22.07	24.07	PASS
20	132572	50	#Max	QAM64	21.74	23.74	PASS
20	132572	100	#0	QAM64	21.85	23.85	PASS

## 5.2 Occupied Bandwidth

### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

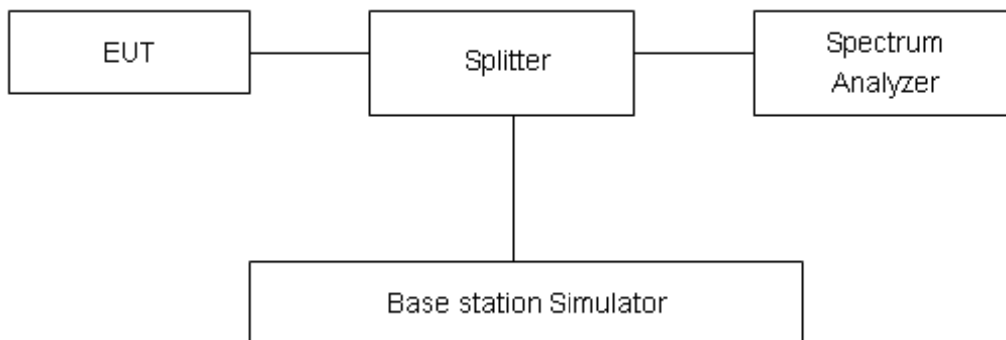
### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to  $\geq 1\%EBW$ , VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

### Test Setup



### Limits

No specific occupied bandwidth requirements in part 2.1049.

### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U=624\text{Hz}$ .



## Test Result

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.1637	4.736
	1413	1732.6	4.1683	4.737
	1513	1752.6	4.1535	4.746

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.0950	1.240
			20175	1732.5	1.0920	1.249
			20393	1754.3	1.0960	1.249
		3	19965	1711.5	2.7040	3.018
			20175	1732.5	2.7060	3.030
			20385	1753.5	2.7060	3.014
		5	19975	1712.5	4.5130	4.984
			20175	1732.5	4.5050	4.959
			20375	1752.5	4.5150	4.926
		10	20000	1715	8.9640	9.826
			20175	1732.5	8.9780	9.838
			20350	1750	8.9670	9.739
		15	20025	1717.5	13.4530	14.439
			20175	1732.5	13.4520	14.716
			20325	1747.5	13.4950	14.709
		20	20050	1720	17.8710	19.397
			20175	1732.5	17.9690	19.366
			20300	1745	17.9750	19.336
	16QAM	1.4	19957	1710.7	1.0990	1.238
			20175	1732.5	1.0940	1.243
			20393	1754.3	1.0970	1.230
		3	19965	1711.5	2.7010	3.016
			20175	1732.5	2.6960	3.015
			20385	1753.5	2.6990	3.020
5		19975	1712.5	4.5080	4.977	
		20175	1732.5	4.5110	4.874	
		20375	1752.5	4.5140	4.963	
10		20000	1715	8.9810	9.707	
		20175	1732.5	8.9600	9.754	
		20350	1750	8.9450	9.727	



		15	20025	1717.5	13.4430	14.701
			20175	1732.5	13.4710	14.516
			20325	1747.5	13.4750	14.653
		20	20050	1720	17.8270	19.001
			20175	1732.5	17.9730	19.510
			20300	1745	17.9930	19.556
	64QAM	1.4	19957	1710.7	1.0970	1.237
			20175	1732.5	1.0990	1.251
			20393	1754.3	1.0990	1.234
		3	19965	1711.5	2.6980	3.056
			20175	1732.5	2.6990	2.999
			20385	1753.5	2.6980	3.007
		5	19975	1712.5	4.5050	4.934
			20175	1732.5	4.5250	4.953
			20375	1752.5	4.5140	4.965
		10	20000	1715	8.9450	9.651
			20175	1732.5	8.9730	9.691
			20350	1750	8.9810	9.755
		15	20025	1717.5	13.4620	14.407
			20175	1732.5	13.4880	14.654
			20325	1747.5	13.4940	14.549
		20	20050	1720	17.8460	19.158
			20175	1732.5	17.9970	19.264
			20300	1745	17.9440	19.358

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.5160	4.961
			21100	2535	4.5210	4.931
			21425	2567.5	4.5080	4.946
		10	20800	2505	8.9640	9.813
			21100	2535	8.9610	9.767
			21400	2565	9.0140	9.828
		15	20825	2507.5	13.4790	14.560
			21100	2535	13.4430	14.631
			21375	2562.5	13.4470	14.578
		20	20850	2510	17.9320	19.255
			21100	2535	17.9490	19.400
			21350	2560	17.9010	19.666



	16QAM	5	20775	2502.5	4.5230	4.979
			21100	2535	4.5080	4.872
			21425	2567.5	4.5090	4.937
		10	20800	2505	8.9860	9.787
			21100	2535	8.9990	9.855
			21400	2565	8.9820	9.730
		15	20825	2507.5	13.4730	14.692
			21100	2535	13.4910	14.594
			21375	2562.5	13.5010	14.446
		20	20850	2510	17.9470	19.302
			21100	2535	17.9490	19.291
			21350	2560	17.9330	19.460
	64QAM	5	20775	2502.5	4.5210	4.893
			21100	2535	4.5090	4.948
			21425	2567.5	4.5290	4.933
		10	20800	2505	8.9960	9.717
			21100	2535	8.9540	9.731
			21400	2565	8.9450	9.646
		15	20825	2507.5	13.4690	14.701
			21100	2535	13.4570	14.606
			21375	2562.5	13.4540	14.559
		20	20850	2510	17.9710	19.512
			21100	2535	17.9310	19.352
			21350	2560	17.9160	19.424

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.5080	4.878
			38000	2595	4.5200	4.928
			38225	2617.5	4.5070	4.916
		10	37800	2575	9.0250	9.823
			38000	2595	8.9870	9.807
			38200	2615	8.9830	9.693
		15	37825	2577.5	13.4510	14.556
			38000	2595	13.4410	14.409
			38175	2612.5	13.4780	14.667
		20	37850	2580	17.9140	18.998
			38000	2595	17.9140	19.104
			38150	2610	17.8770	19.389



	16QAM	5	37775	2572.5	4.4960	4.943
			38000	2595	4.5010	4.906
			38225	2617.5	4.5110	4.934
		10	37800	2575	8.9810	9.631
			38000	2595	8.9960	9.635
			38200	2615	8.9740	9.595
		15	37825	2577.5	13.4610	14.483
			38000	2595	13.4820	14.559
			38175	2612.5	13.4830	14.505
		20	37850	2580	17.9890	19.439
			38000	2595	17.9460	19.188
			38150	2610	17.9200	19.202
	64QAM	5	37775	2572.5	4.5280	4.954
			38000	2595	4.5090	4.882
			38225	2617.5	4.5000	4.911
		10	37800	2575	9.0110	9.746
			38000	2595	8.9590	9.587
			38200	2615	8.9890	9.710
		15	37825	2577.5	13.5030	14.435
			38000	2595	13.4560	14.449
			38175	2612.5	13.4310	14.600
		20	37850	2580	17.9050	19.369
			38000	2595	17.8940	19.387
			38150	2610	17.8630	19.462

LTE Band 66						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	131979	1710.7	1.1000	1.239
			132322	1745	1.0980	1.250
			132665	1779.3	1.0990	1.259
		3	131987	1711.5	2.7050	3.033
			132322	1745	2.7060	2.976
			132657	1778.5	2.7100	2.989
		5	131997	1712.5	4.5220	4.967
			132322	1745	4.5060	4.910
			132647	1777.5	4.5100	4.950
		10	132022	1715	8.9630	9.815
			132322	1745	8.9890	9.659



			132622	1775	8.9740	9.779
		15	132047	1717.5	13.4690	14.598
			132322	1745	13.4270	14.489
			132597	1772.5	13.4700	14.708
		20	132072	1720	17.8640	19.083
			132322	1745	17.9640	19.390
	132572		1770	18.0250	19.681	
	16QAM	1.4	131979	1710.7	1.0930	1.242
			132322	1745	1.0950	1.249
			132665	1779.3	1.0910	1.230
		3	131987	1711.5	2.6930	3.018
			132322	1745	2.7030	3.018
			132657	1778.5	2.7040	3.024
		5	131997	1712.5	4.5200	4.942
			132322	1745	4.5200	4.978
			132647	1777.5	4.5320	4.938
		10	132022	1715	8.9480	9.704
			132322	1745	8.9770	9.729
			132622	1775	8.9780	9.751
		15	132047	1717.5	13.4040	14.424
			132322	1745	13.4720	14.699
			132597	1772.5	13.4910	14.701
		20	132072	1720	17.8180	19.242
			132322	1745	17.9500	19.560
			132572	1770	17.9770	19.667
	64QAM	1.4	131979	1710.7	1.0930	1.241
			132322	1745	1.1020	1.241
			132665	1779.3	1.0930	1.232
		3	131987	1711.5	2.7110	3.042
			132322	1745	2.7000	2.997
132657			1778.5	2.6940	3.003	
5		131997	1712.5	4.5150	4.977	
		132322	1745	4.5310	4.985	
		132647	1777.5	4.5250	4.953	
10		132022	1715	8.9470	9.742	
		132322	1745	8.9680	9.687	
		132622	1775	8.9820	9.763	
15		132047	1717.5	13.4280	14.536	
		132322	1745	13.4720	14.503	
		132597	1772.5	13.4870	14.634	





		20	132072	1720	17.8890	19.117
			132322	1745	17.9810	19.370
			132572	1770	18.0440	19.466



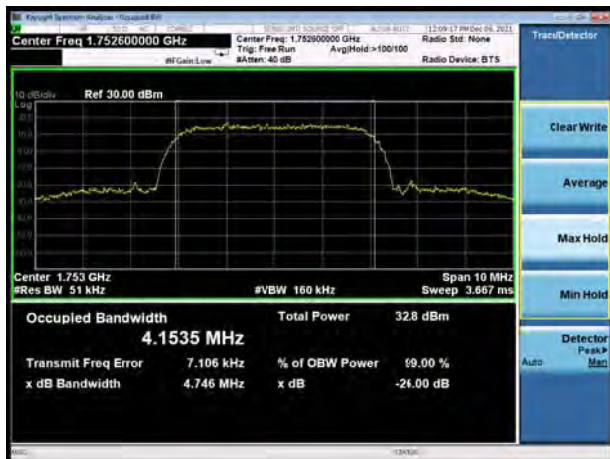
### WCDMA Band IV CH-Low



### WCDMA Band IV CH Middle

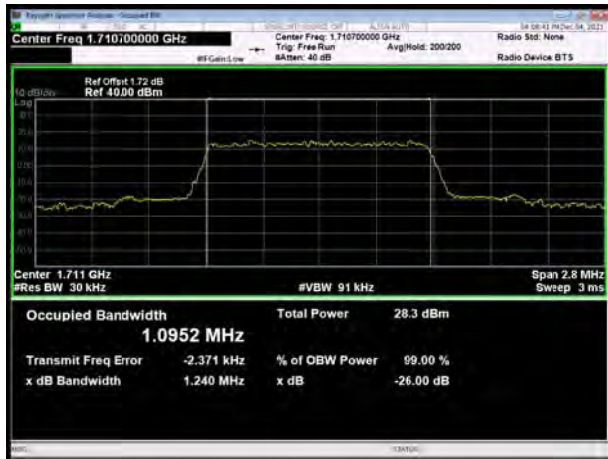


### WCDMA Band IV CH High

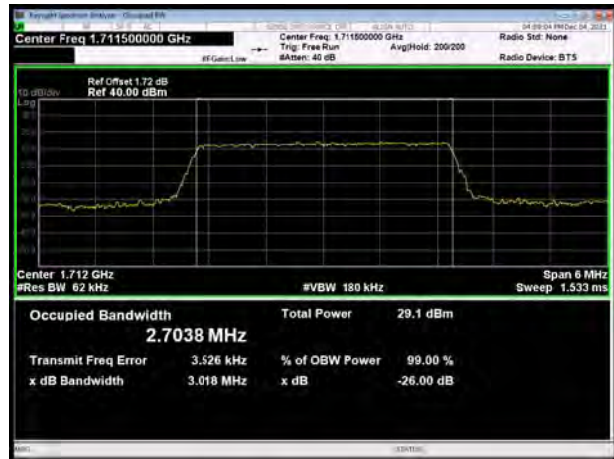




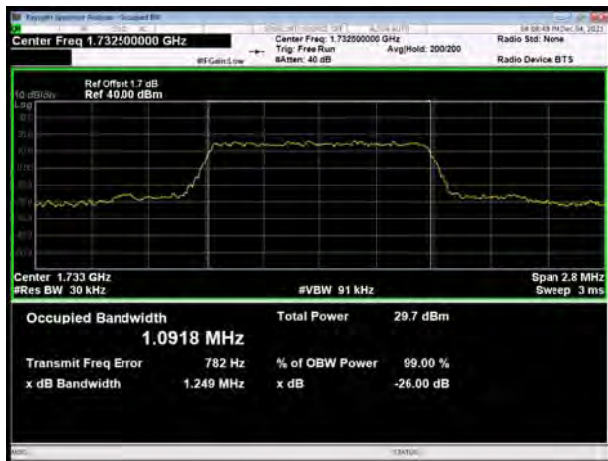
LTE Band 4 QPSK 1.4MHz CH-Low



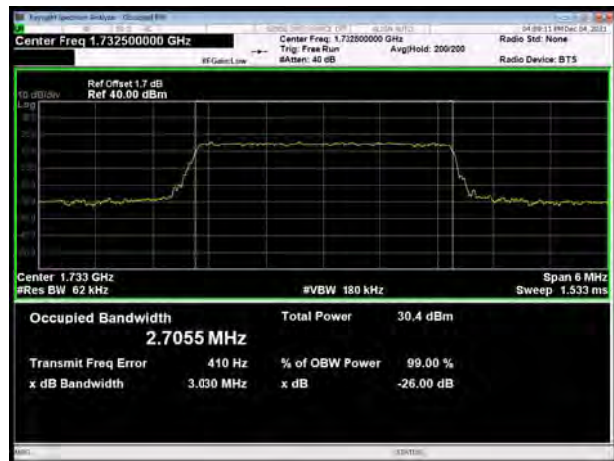
LTE Band 4 QPSK 3MHz CH-Low



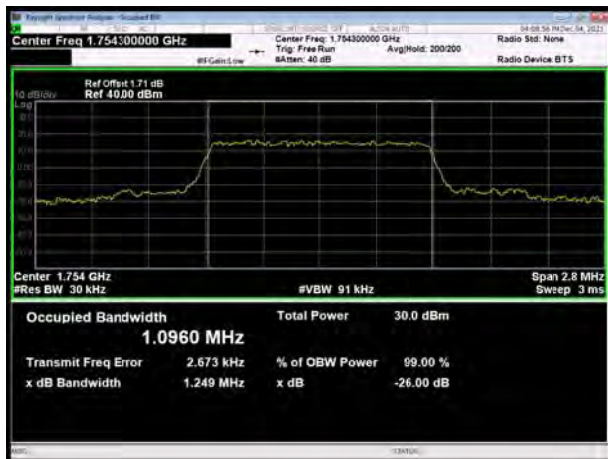
LTE Band 4 QPSK 1.4MHz CH-Middle



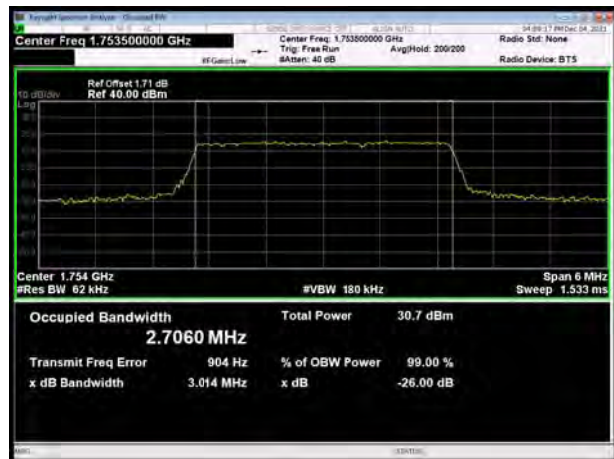
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

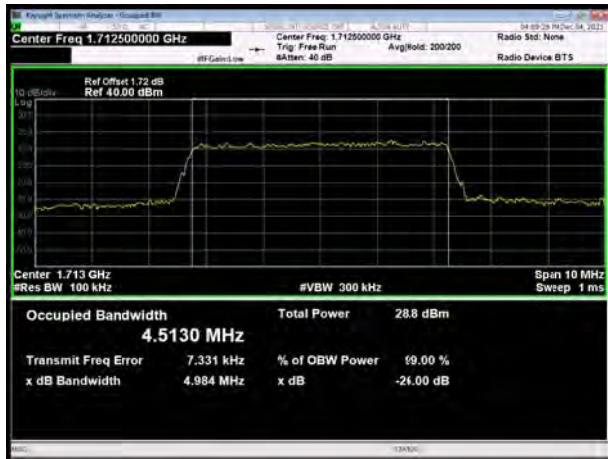


LTE Band 4 QPSK 3MHz CH-High

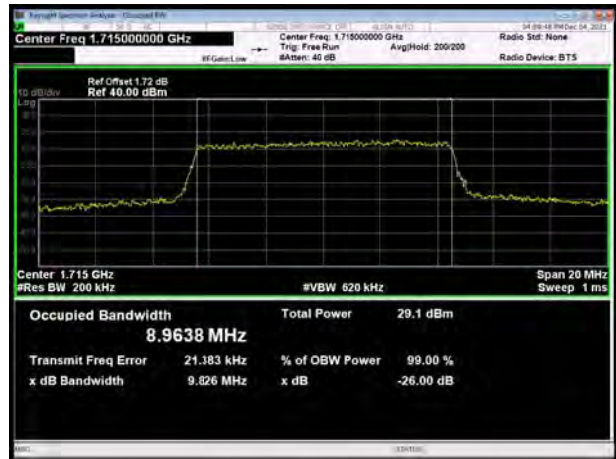




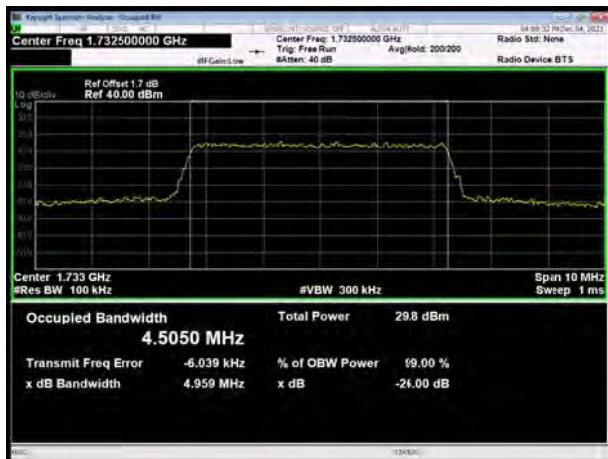
LTE Band 4 QPSK 5MHz CH-Low



LTE Band 4 QPSK 10MHz CH-Low



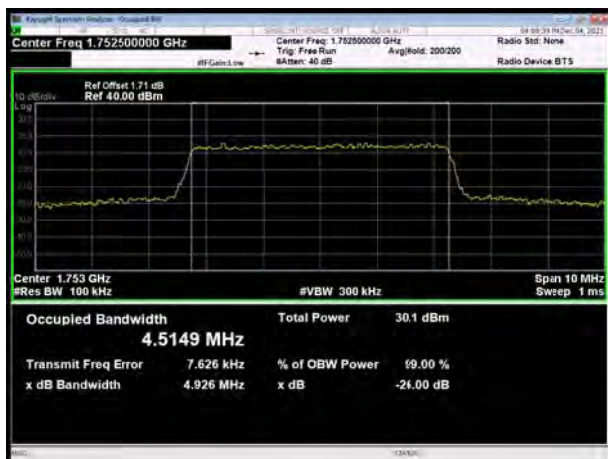
LTE Band 4 QPSK 5MHz CH-Middle



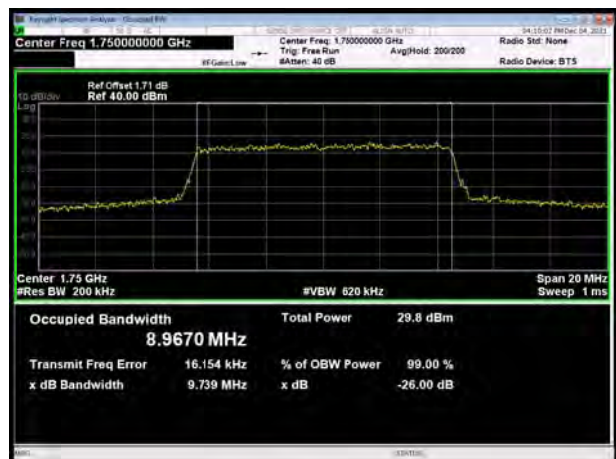
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

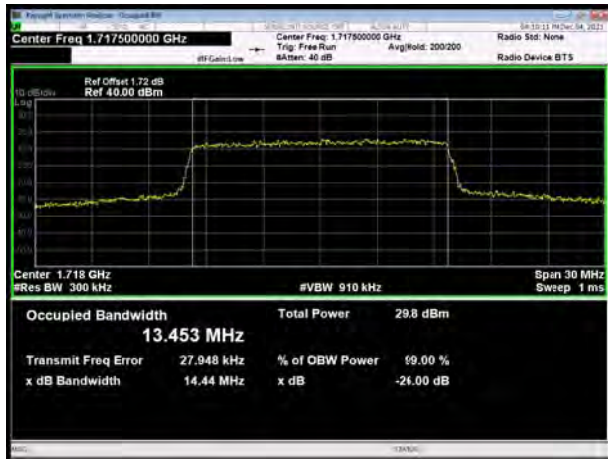


LTE Band 4 QPSK 10MHz CH-High

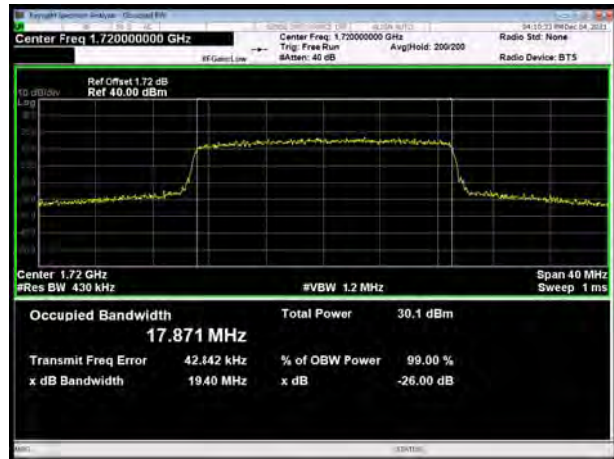




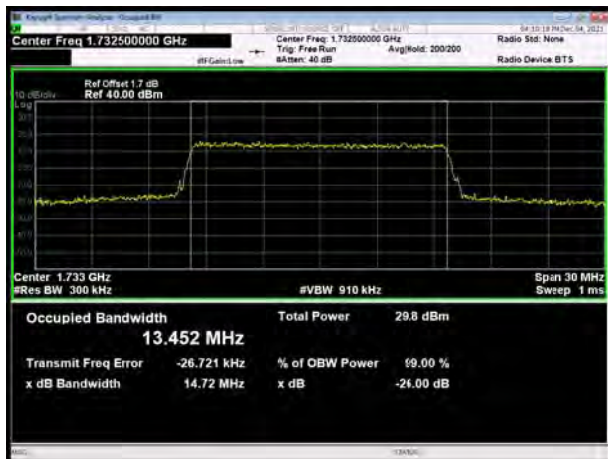
### LTE Band 4 QPSK 15MHz CH-Low



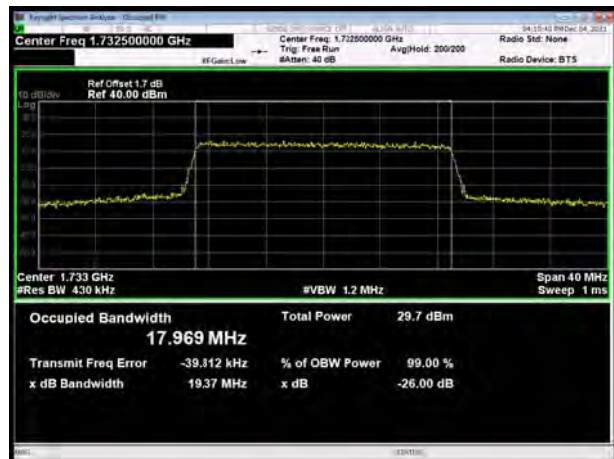
### LTE Band 4 QPSK 20MHz CH-Low



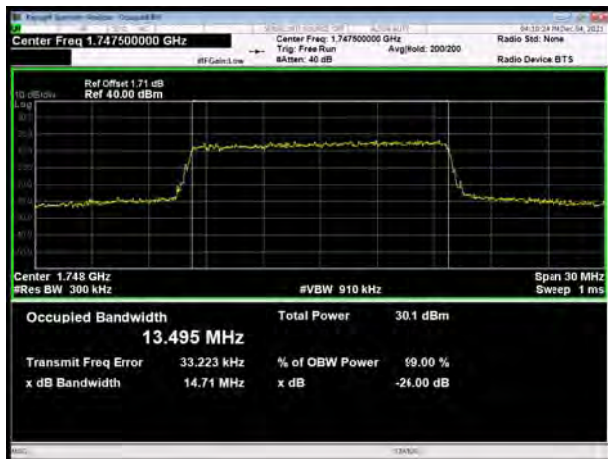
### LTE Band 4 QPSK 15MHz CH-Middle



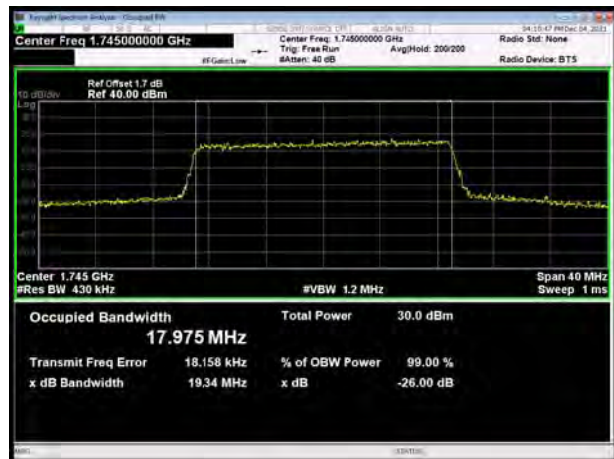
### LTE Band 4 QPSK 20MHz CH-Middle



### LTE Band 4 QPSK 15MHz CH-High

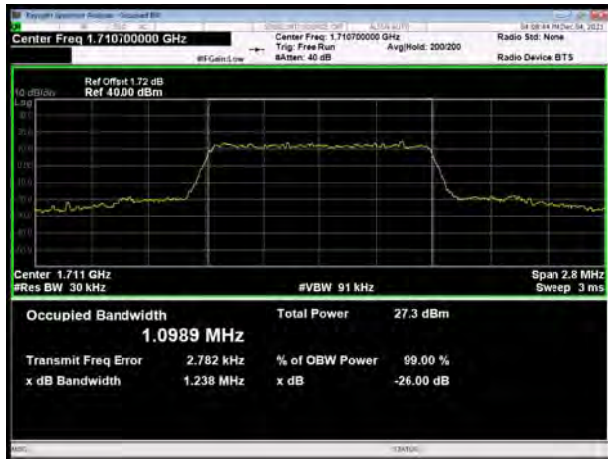


### LTE Band 4 QPSK 20MHz CH-High





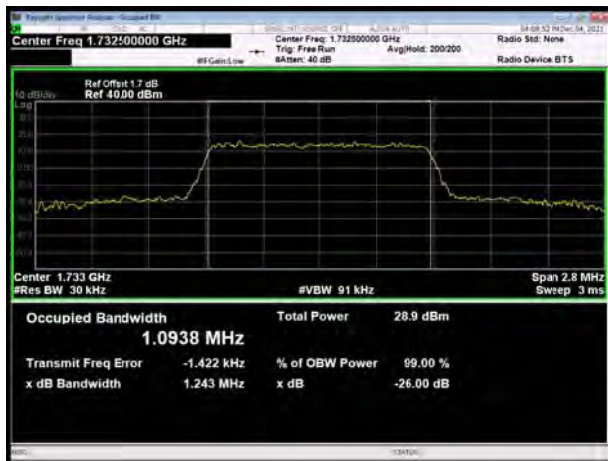
LTE Band 4 16QAM 1.4MHz CH-Low



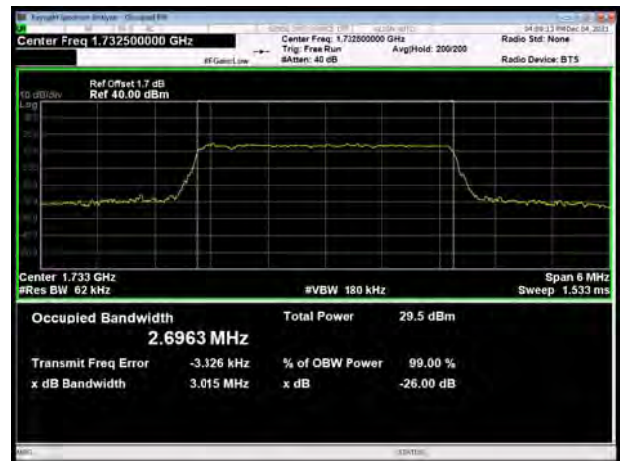
LTE Band 4 16QAM 3MHz CH-Low



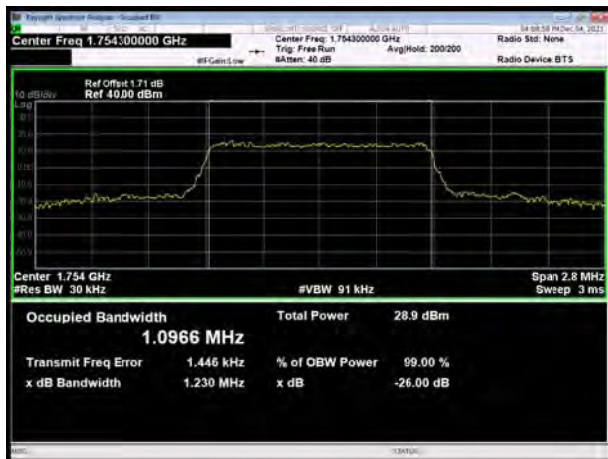
LTE Band 4 16QAM 1.4MHz CH-Middle



LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High

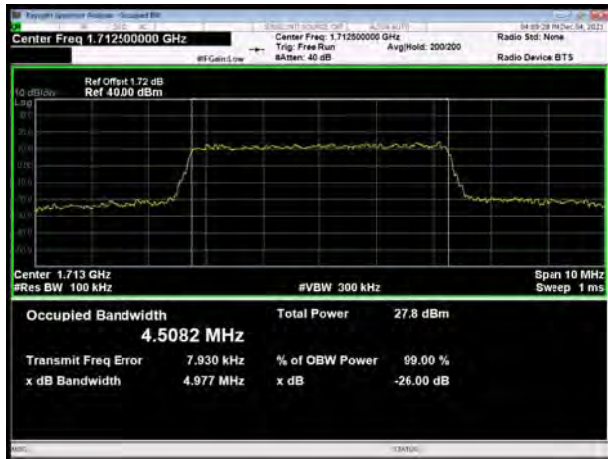


LTE Band 4 16QAM 3MHz CH-High

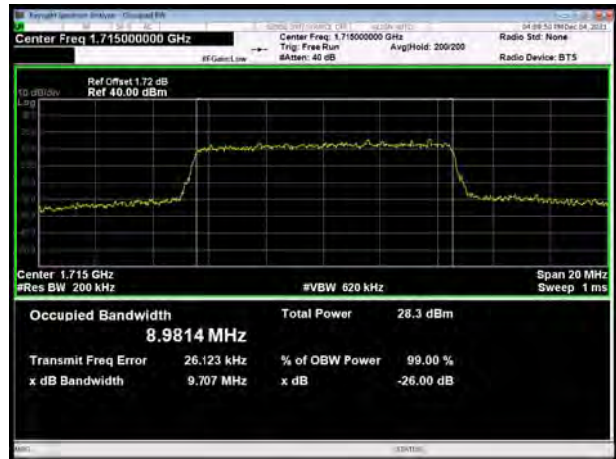




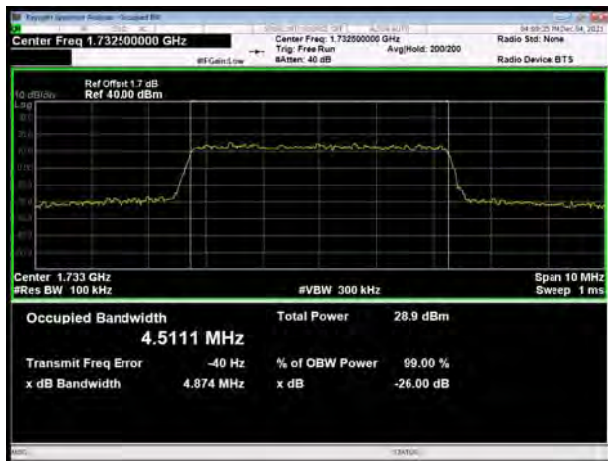
LTE Band 4 16QAM 5MHz CH-Low



LTE Band 4 16QAM 10MHz CH-Low



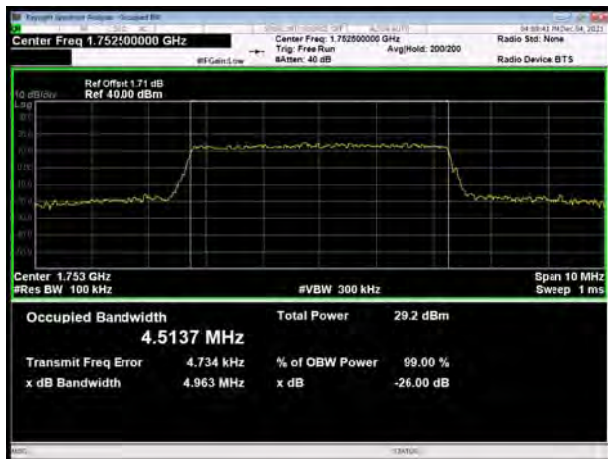
LTE Band 4 16QAM 5MHz CH-Middle



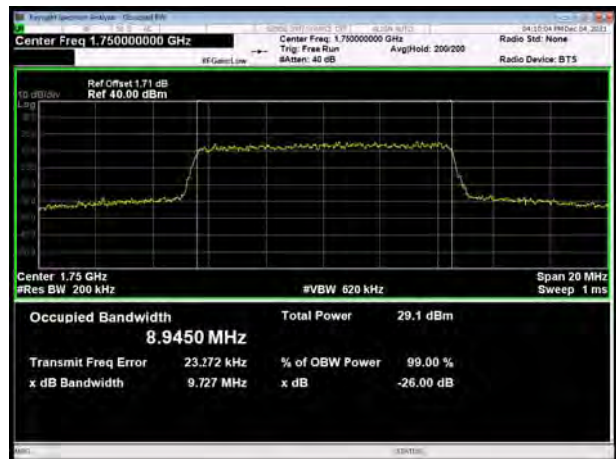
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

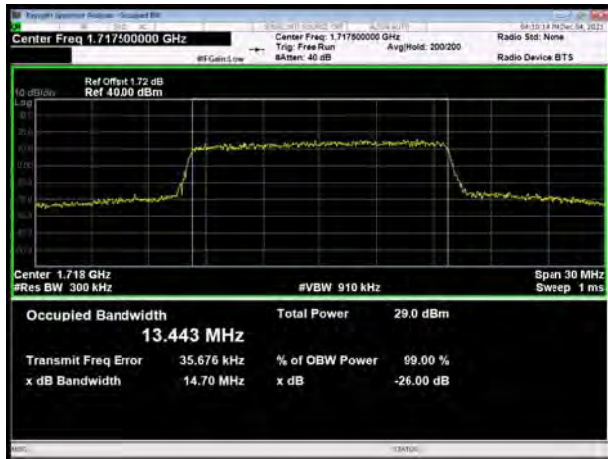


LTE Band 4 16QAM 10MHz CH-High

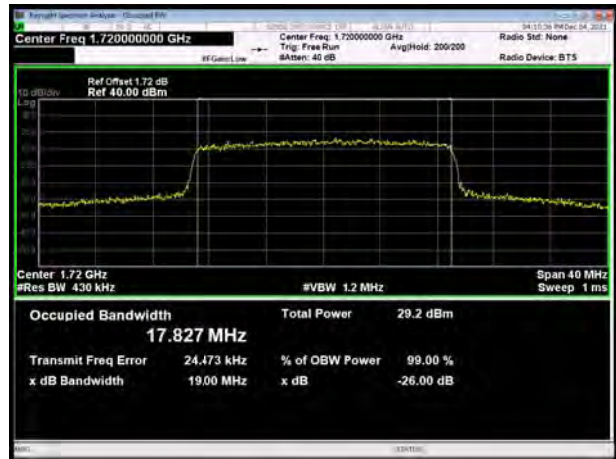




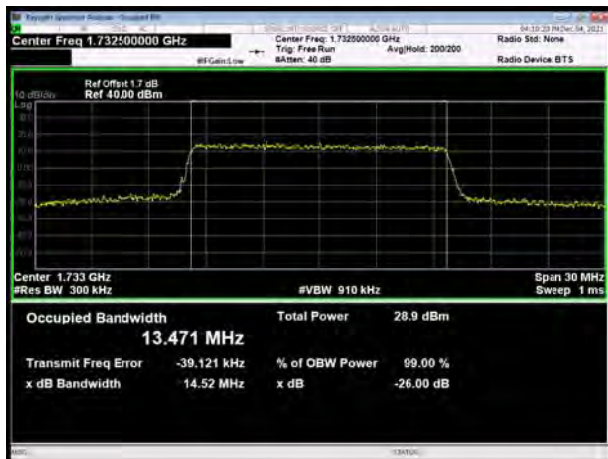
LTE Band 4 16QAM 15MHz CH-Low



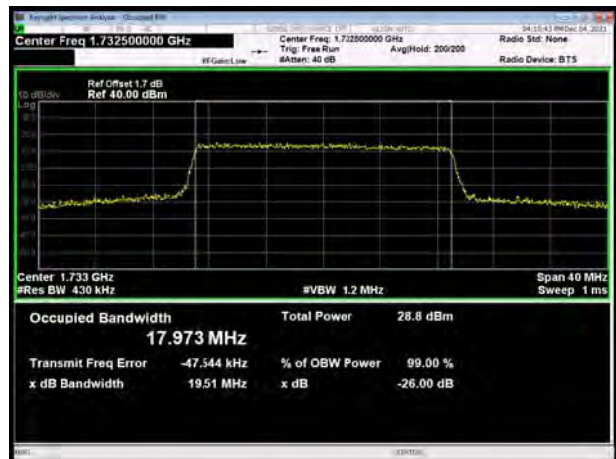
LTE Band 4 16QAM 20MHz CH-Low



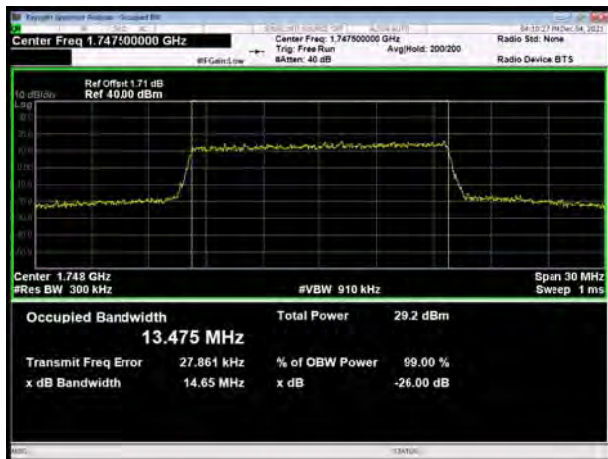
LTE Band 4 16QAM 15MHz CH-Middle



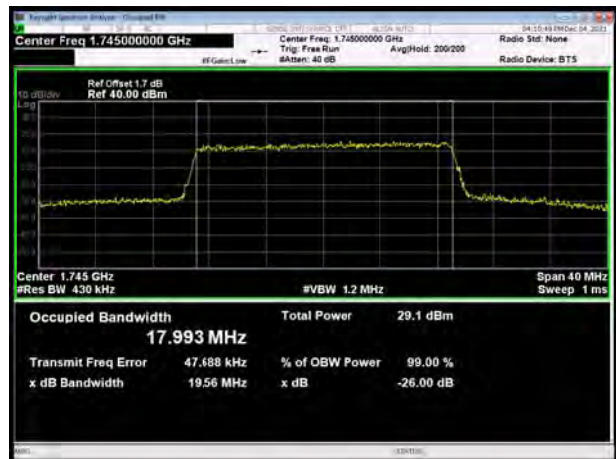
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High



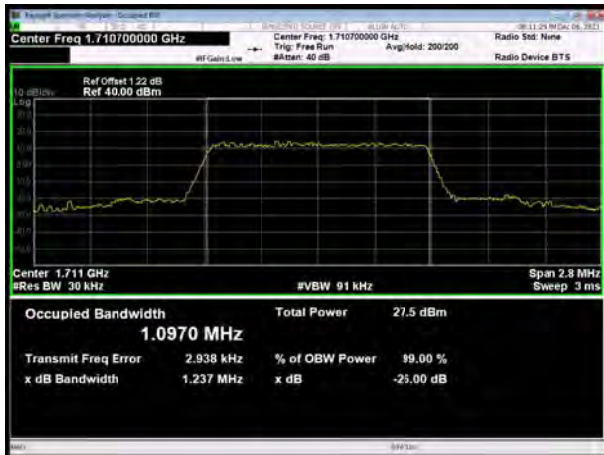
LTE Band 4 16QAM 20MHz CH-High



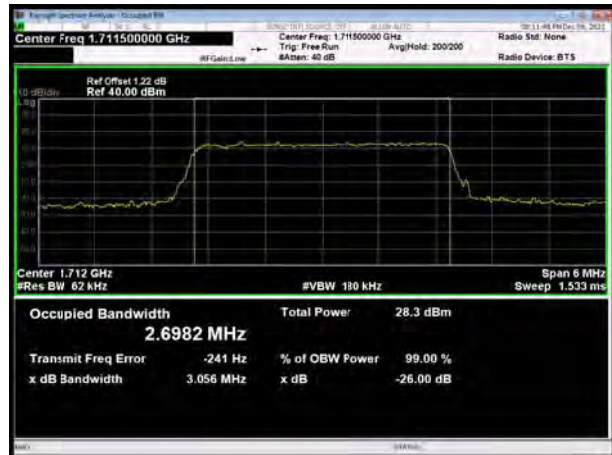




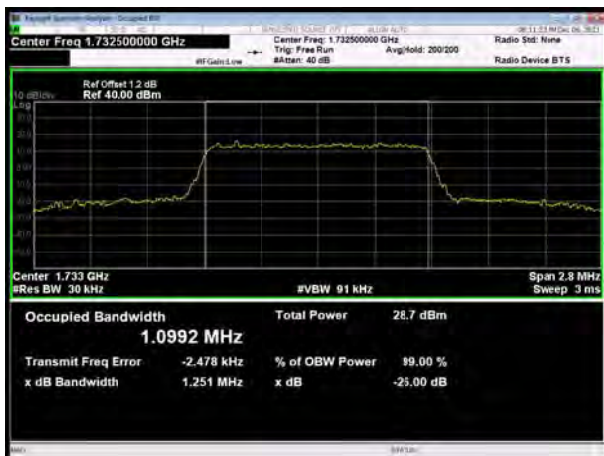
### LTE Band 4 1.4MHz 64QAM CH-Low



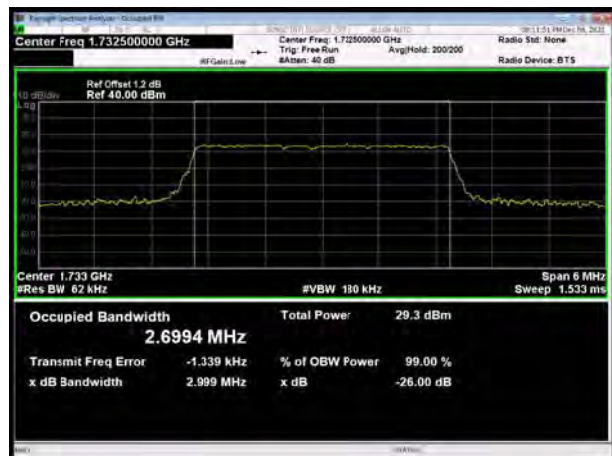
### LTE Band 4 3MHz 64QAM CH-Low



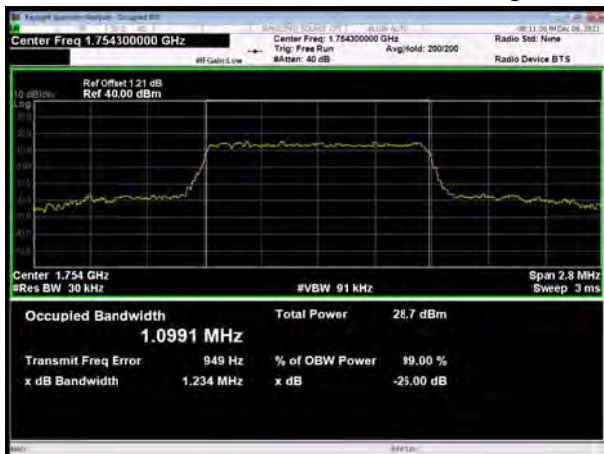
### LTE Band 4 1.4MHz 64QAM CH-Middle



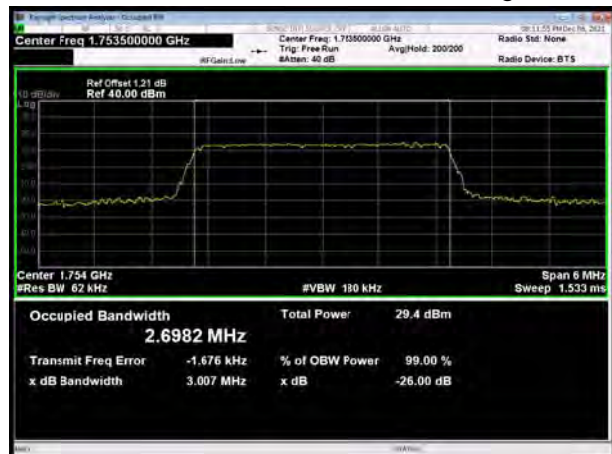
### LTE Band 4 3MHz 64QAM CH-Middle



### LTE Band 4 1.4MHz 64QAM CH-High

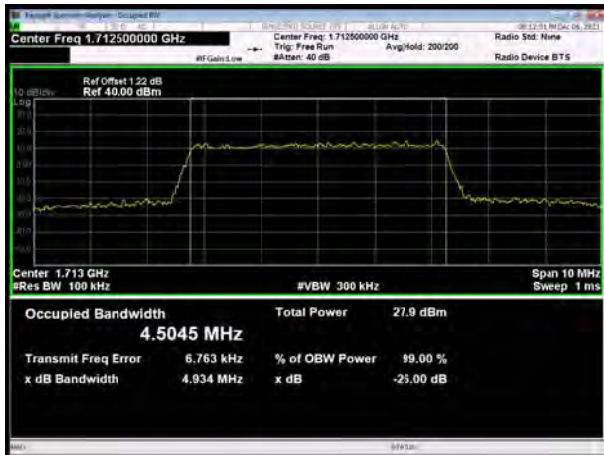


### LTE Band 4 3MHz 64QAM CH-High

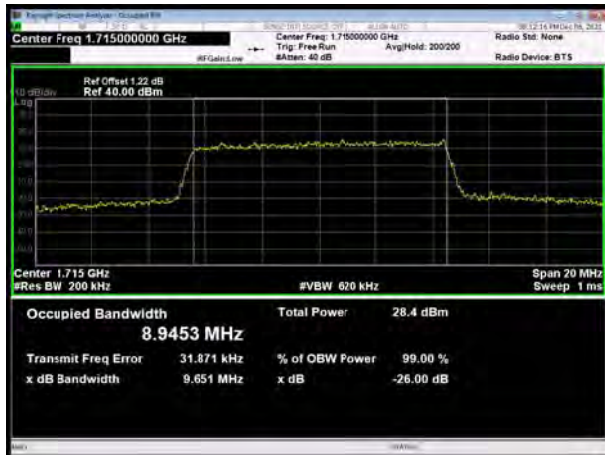




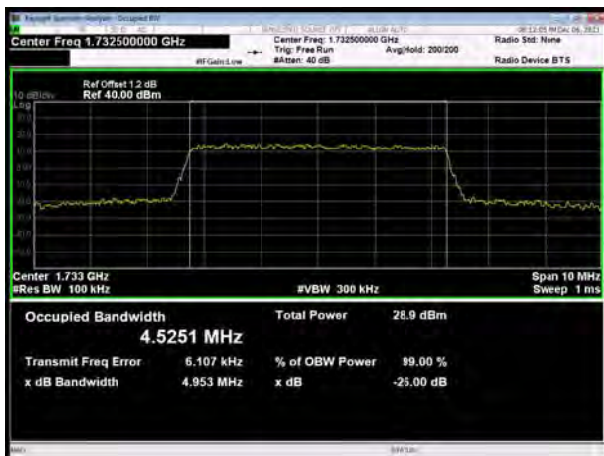
### LTE Band 4 5MHz 64QAM CH-Low



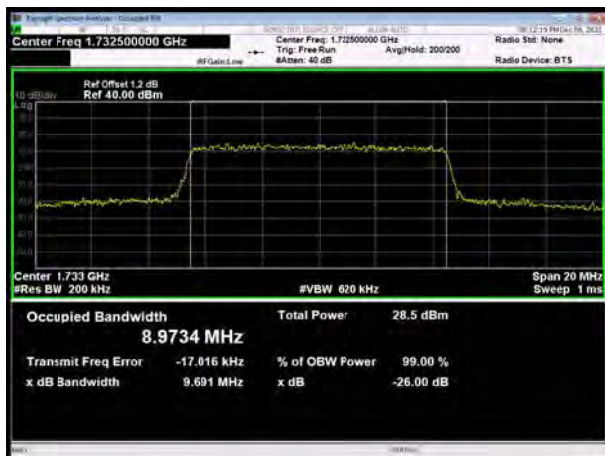
### LTE Band 4 10MHz 64QAM CH-Low



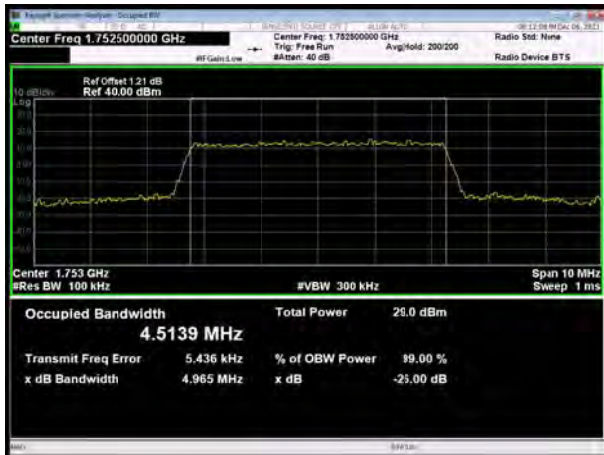
### LTE Band 4 5MHz 64QAM CH-Middle



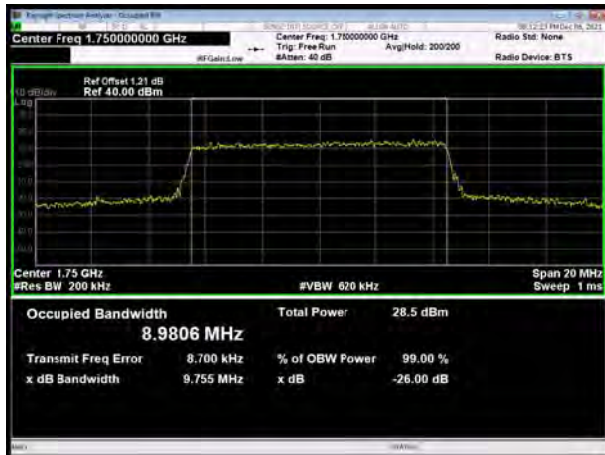
### LTE Band 4 10MHz 64QAM CH-Middle

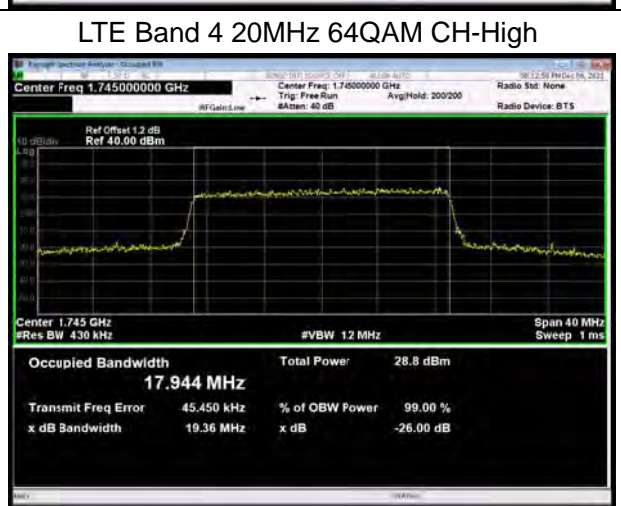
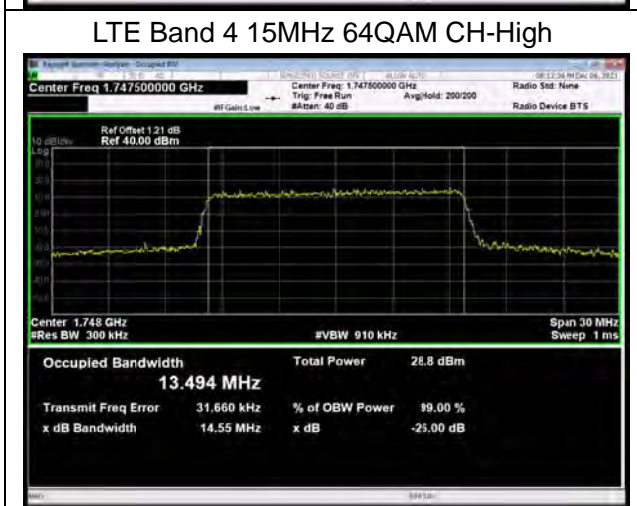
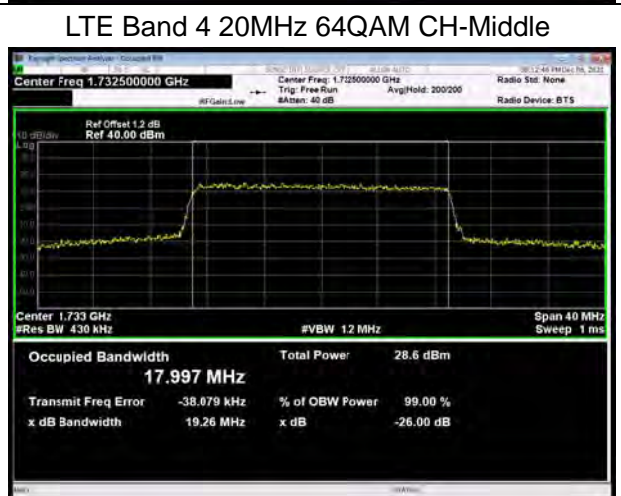
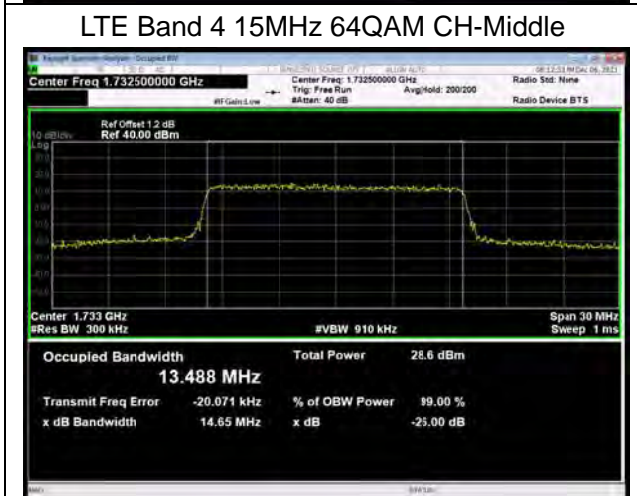
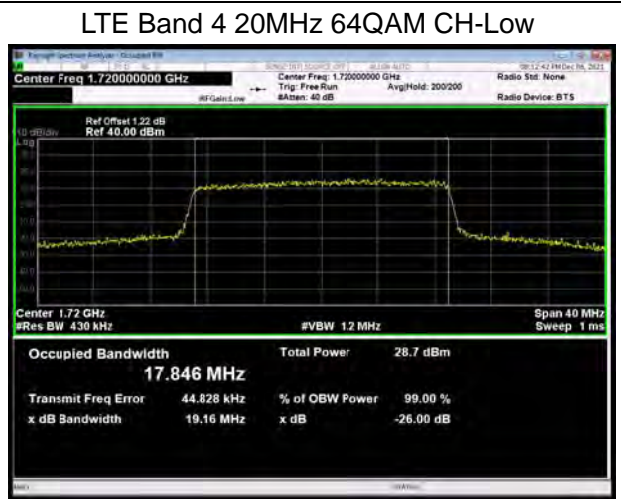
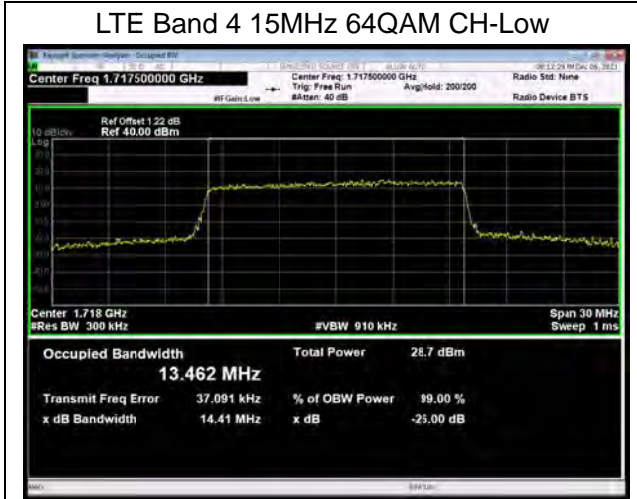


### LTE Band 4 5MHz 64QAM CH-High



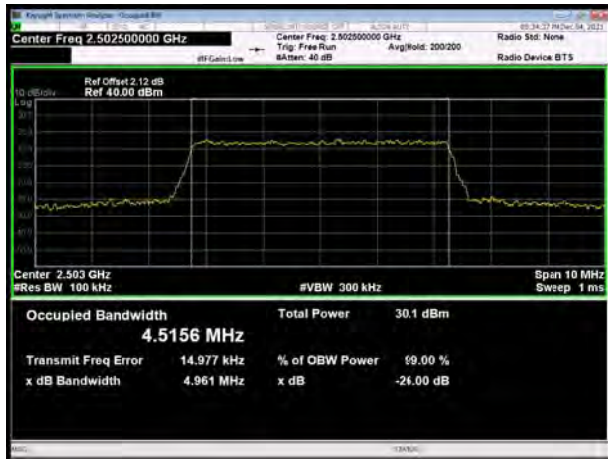
### LTE Band 4 10MHz 64QAM CH-High



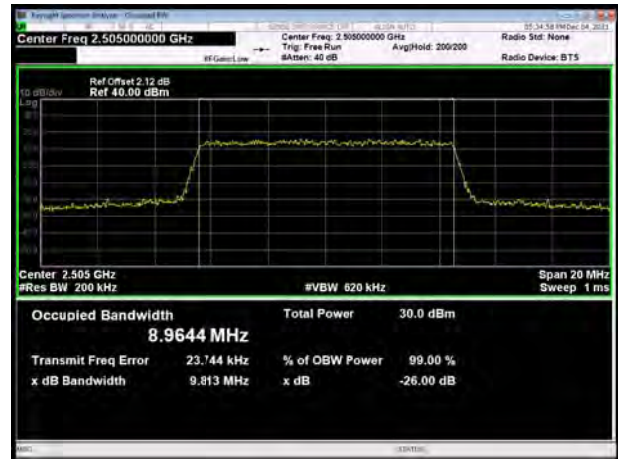




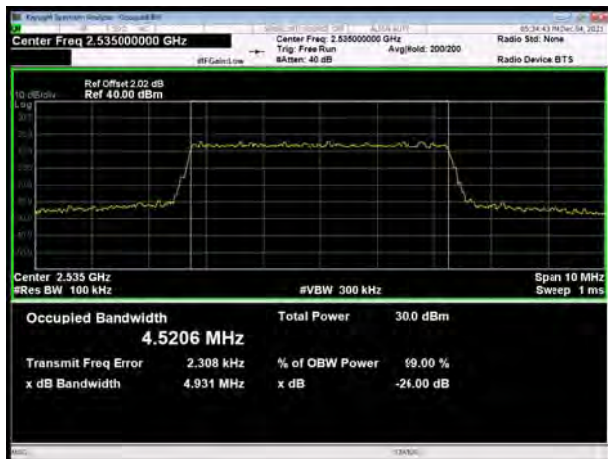
LTE Band 7 QPSK 5MHz CH-Low



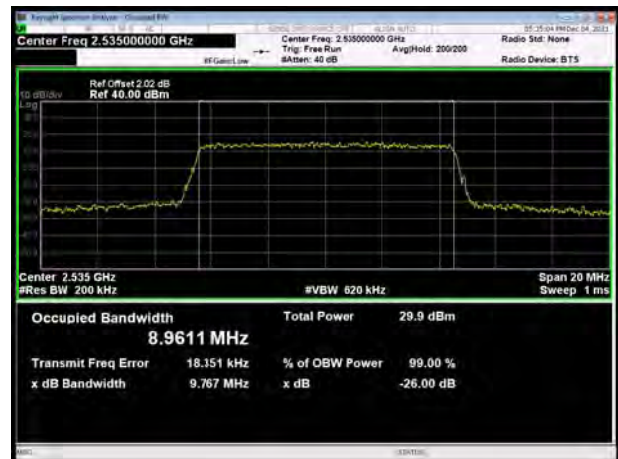
LTE Band 7 QPSK 10MHz CH-Low



LTE Band 7 QPSK 5MHz CH-Middle



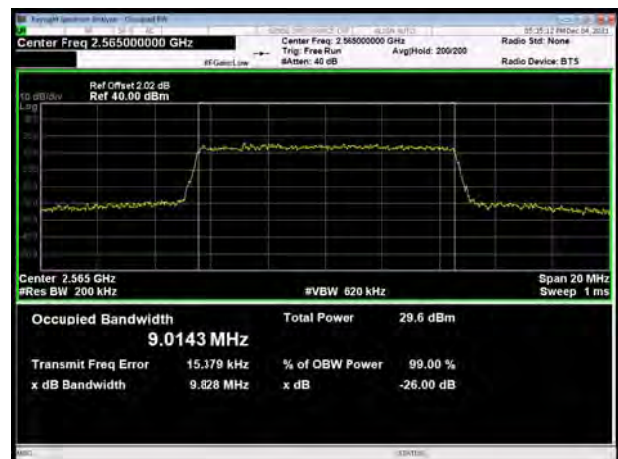
LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

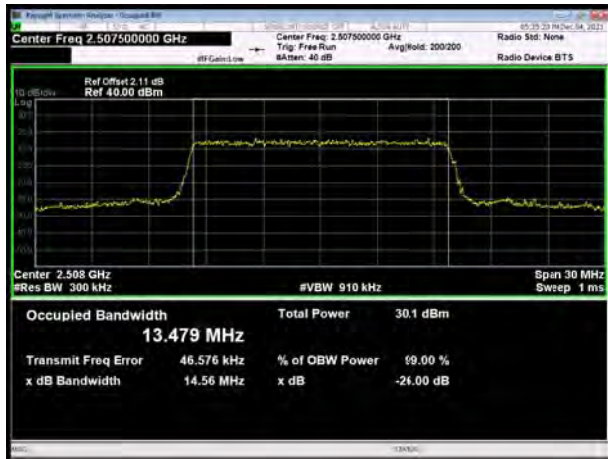


LTE Band 7 QPSK 10MHz CH-High

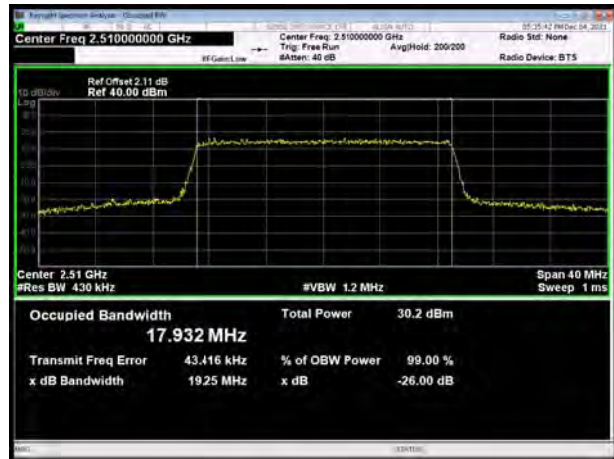




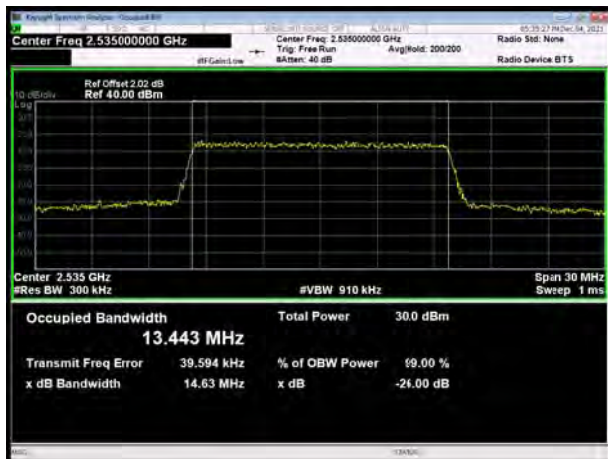
### LTE Band 7 QPSK 15MHz CH-Low



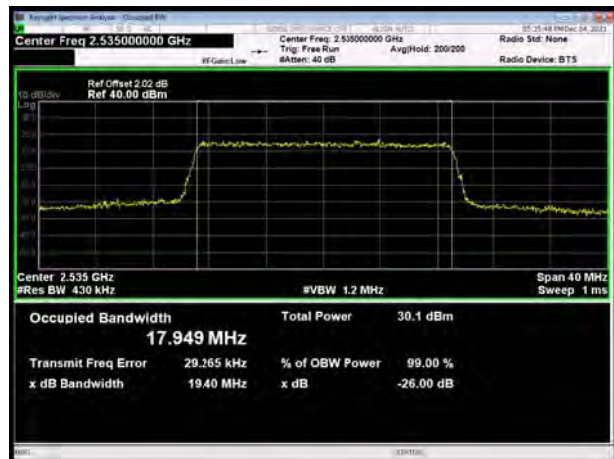
### LTE Band 7 QPSK 20MHz CH-Low



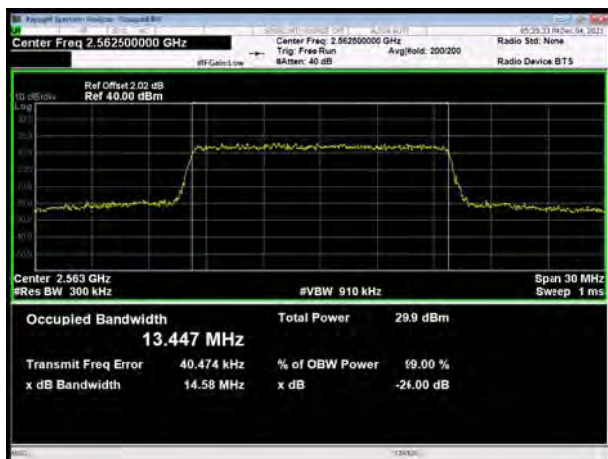
### LTE Band 7 QPSK 15MHz CH-Middle



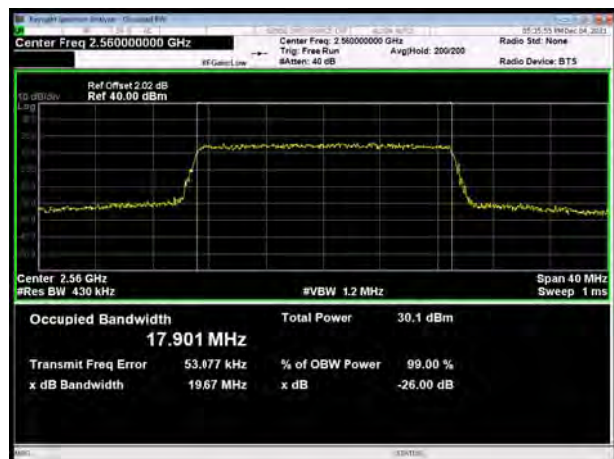
### LTE Band 7 QPSK 20MHz CH-Middle



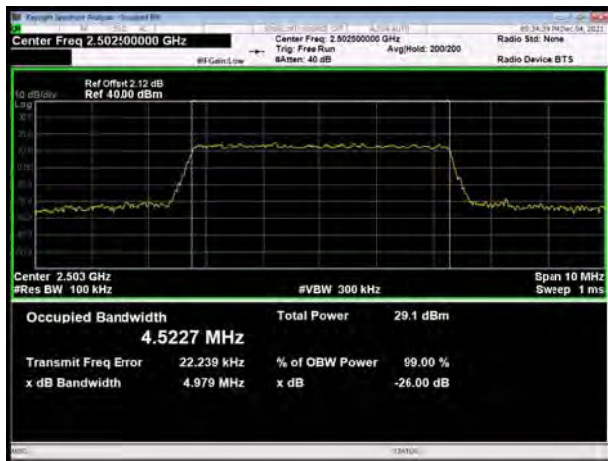
### LTE Band 7 QPSK 15MHz CH-High



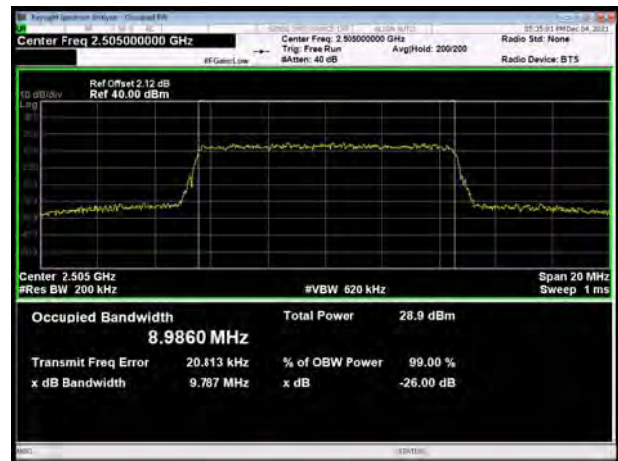
### LTE Band 7 QPSK 20MHz CH-High



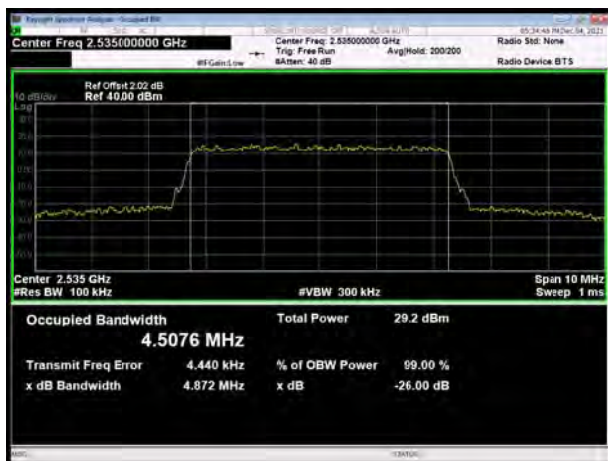
LTE Band 7 16QAM 5MHz CH-Low



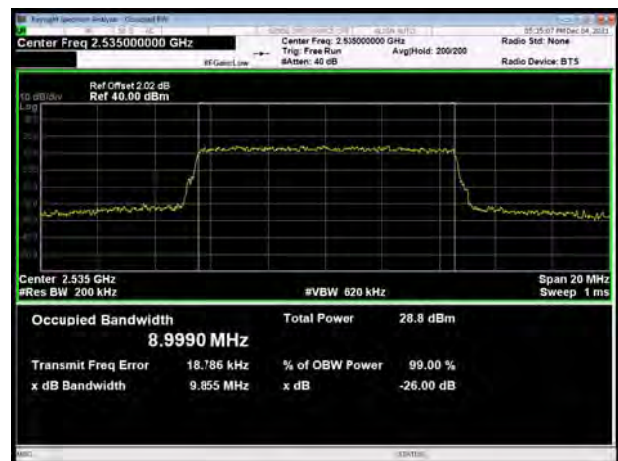
LTE Band 7 16QAM 10MHz CH-Low



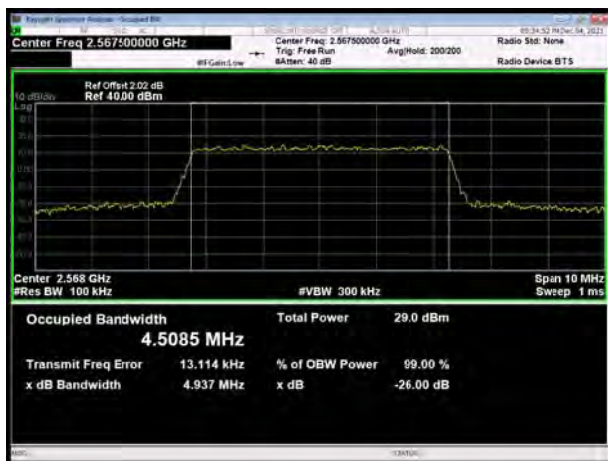
LTE Band 7 16QAM 5MHz CH-Middle



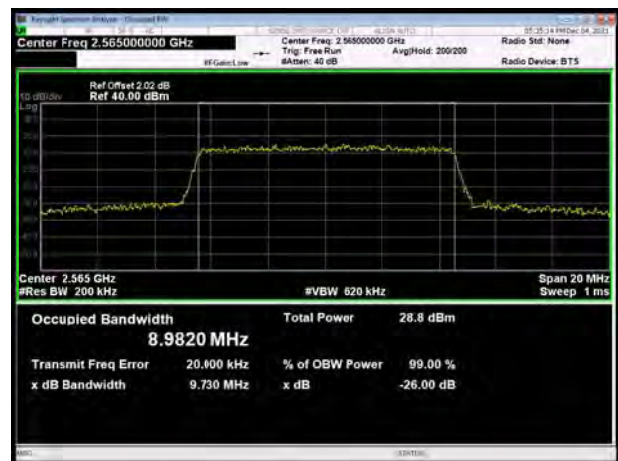
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High

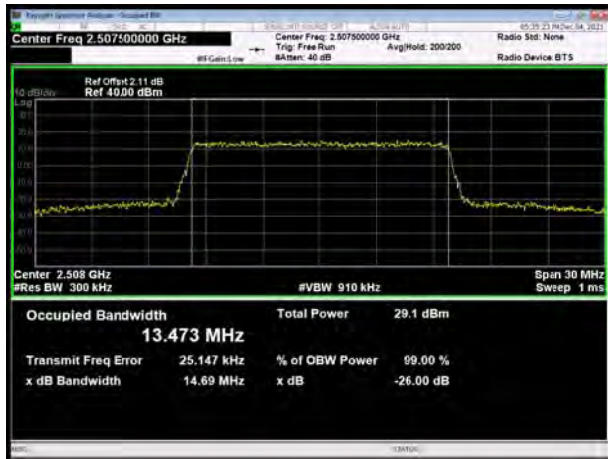


LTE Band 7 16QAM 10MHz CH-High





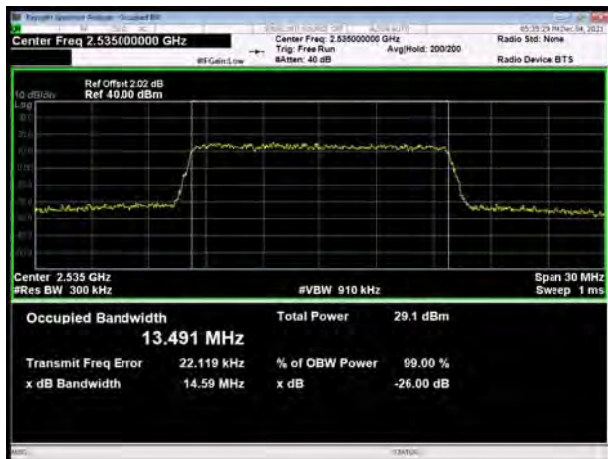
LTE Band 7 16QAM 15MHz CH-Low



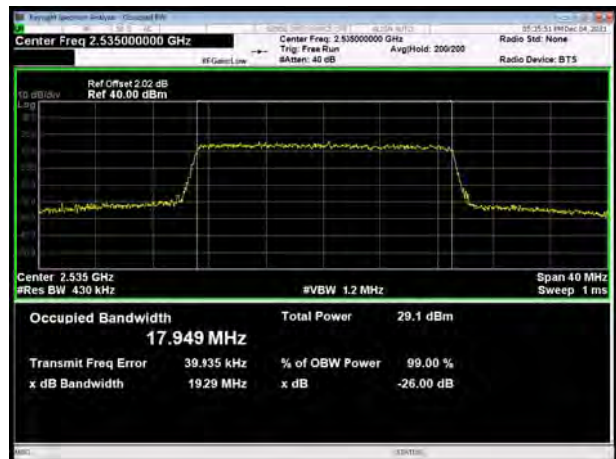
LTE Band 7 16QAM 20MHz CH-Low



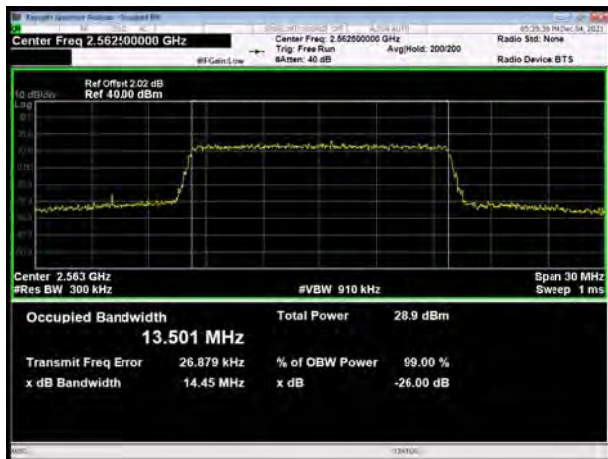
LTE Band 7 16QAM 15MHz CH-Middle



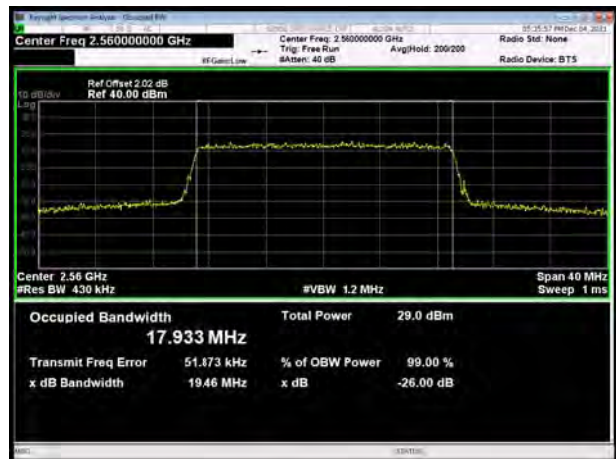
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High

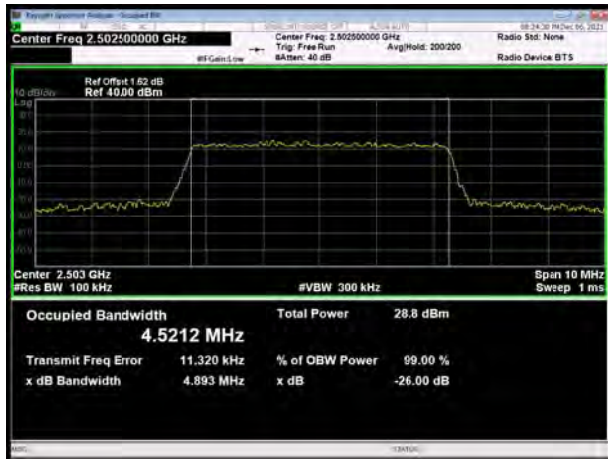


LTE Band 7 16QAM 20MHz CH-High

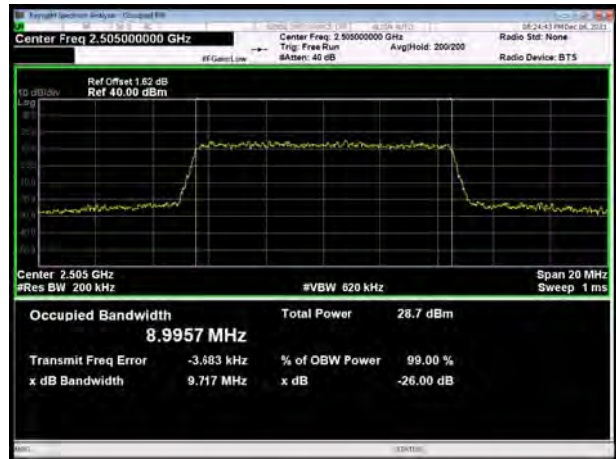




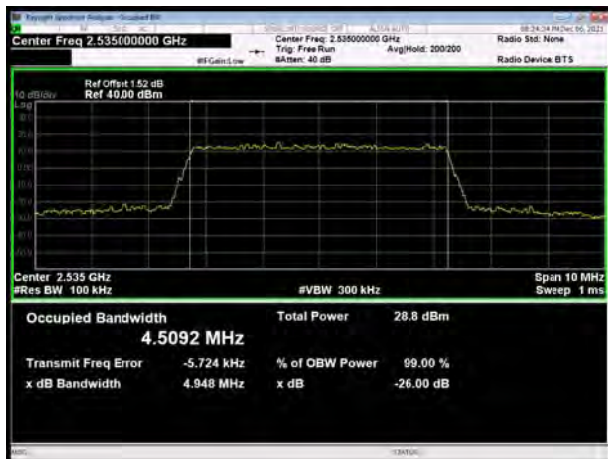
LTE Band 7 64QAM 5MHz CH-Low



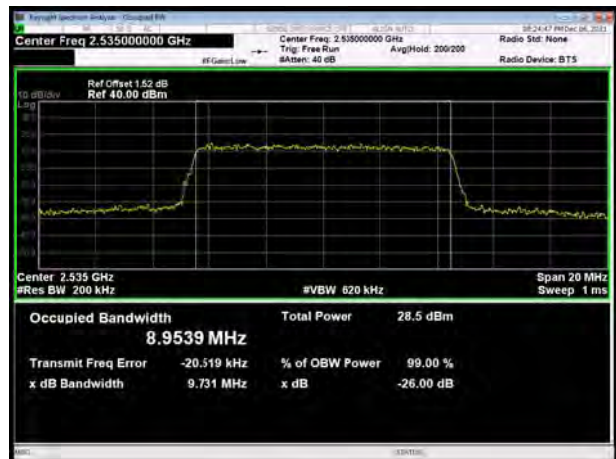
LTE Band 7 64QAM 10MHz CH-Low



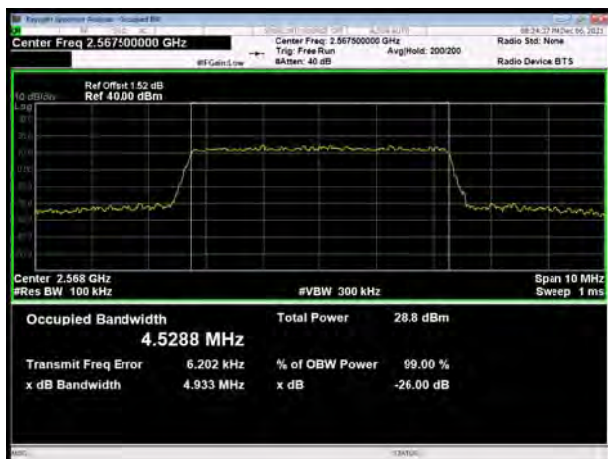
LTE Band 7 64QAM 5MHz CH-Middle



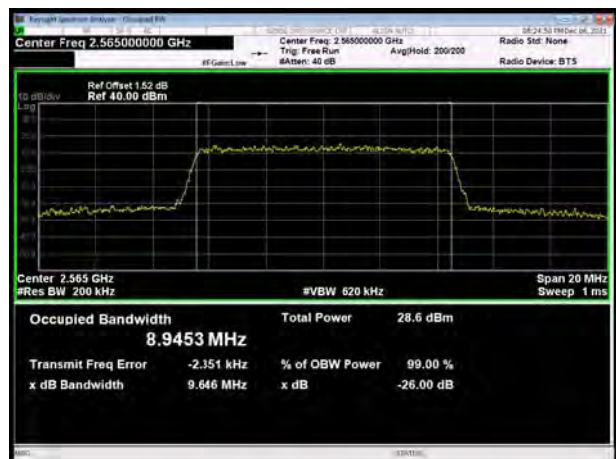
LTE Band 7 64QAM 10MHz CH-Middle



LTE Band 7 64QAM 5MHz CH-High



LTE Band 7 64QAM 10MHz CH-High



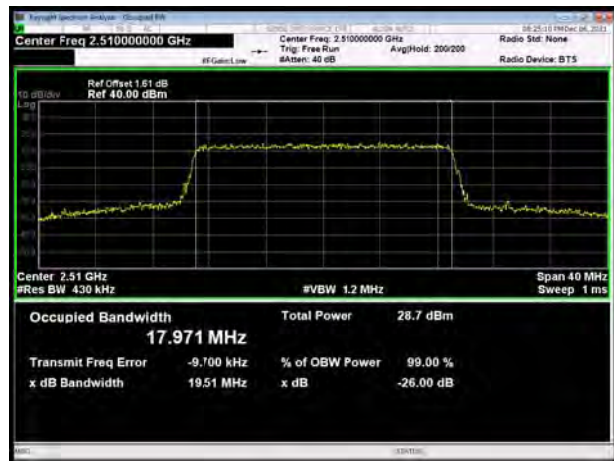




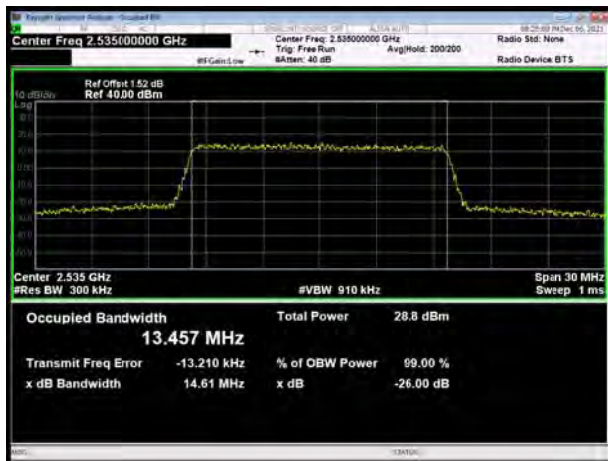
LTE Band 7 64QAM 15MHz CH-Low



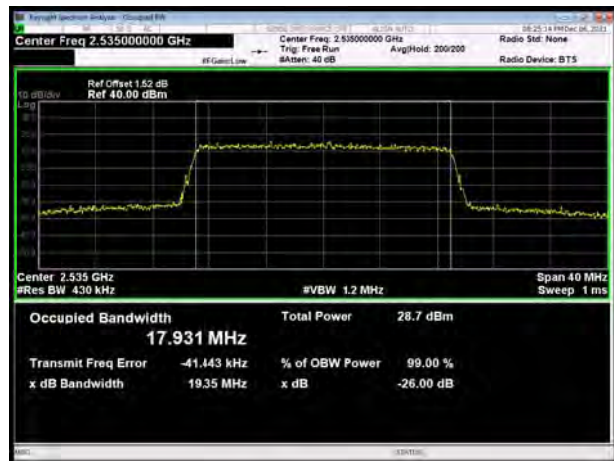
LTE Band 7 64QAM 20MHz CH-Low



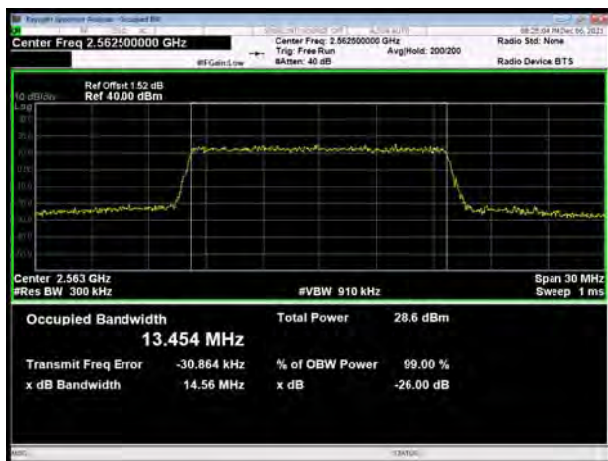
LTE Band 7 64QAM 15MHz CH-Middle



LTE Band 7 64QAM 20MHz CH-Middle



LTE Band 7 64QAM 15MHz CH-High



LTE Band 7 64QAM 20MHz CH-High

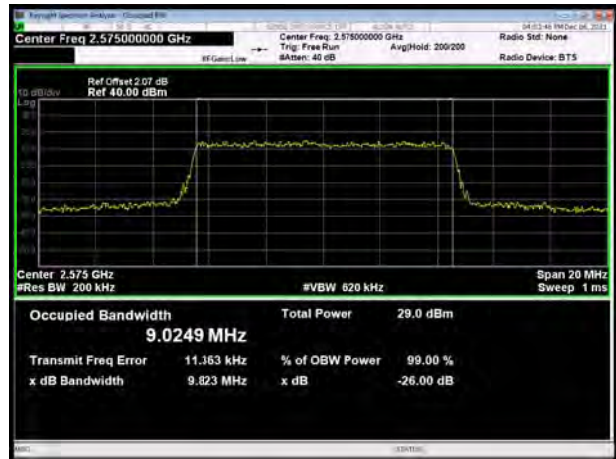




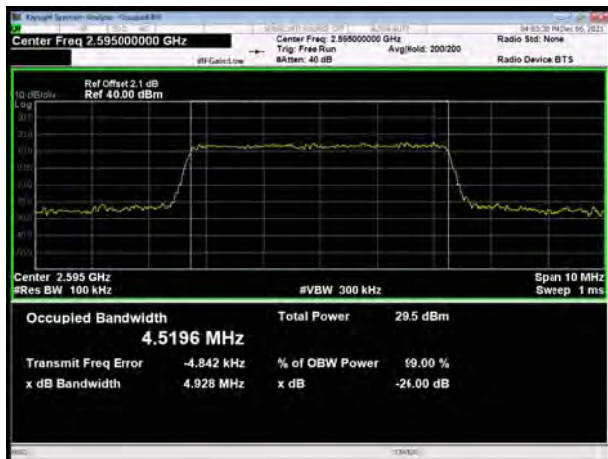
### LTE Band 38 QPSK 5MHz CH-Low



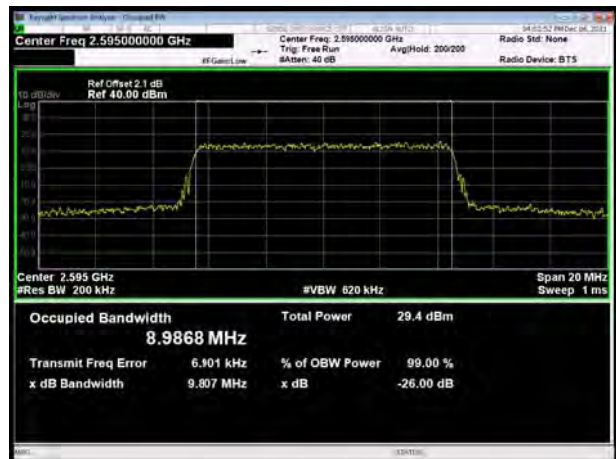
### LTE Band 38 QPSK 10MHz CH-Low



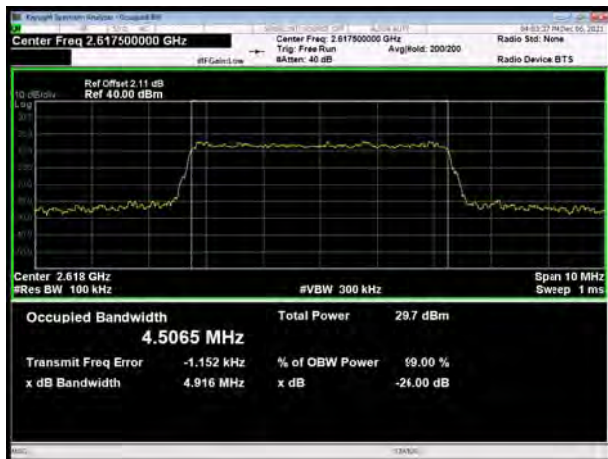
### LTE Band 38 QPSK 5MHz CH-Middle



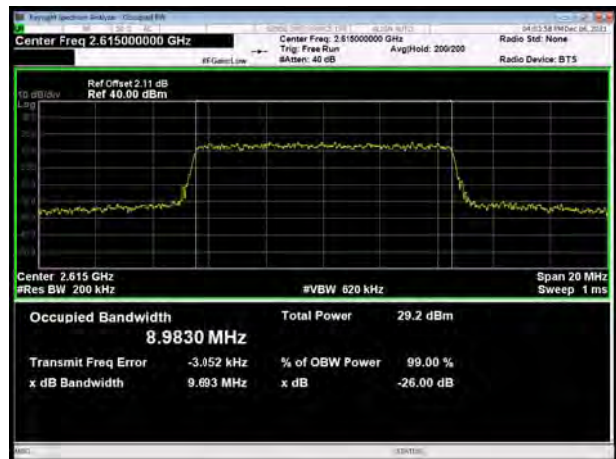
### LTE Band 38 QPSK 10MHz CH-Middle



### LTE Band 38 QPSK 5MHz CH-High

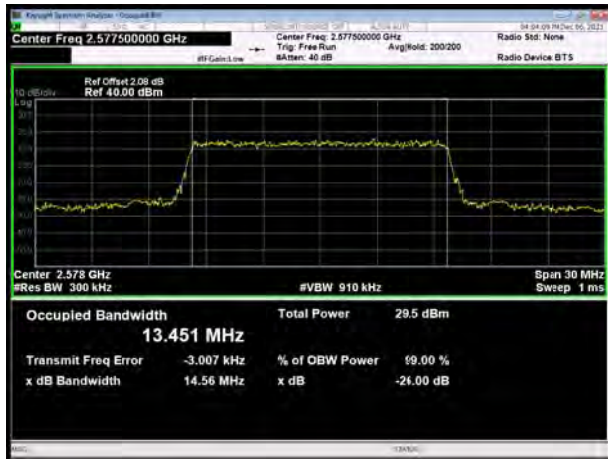


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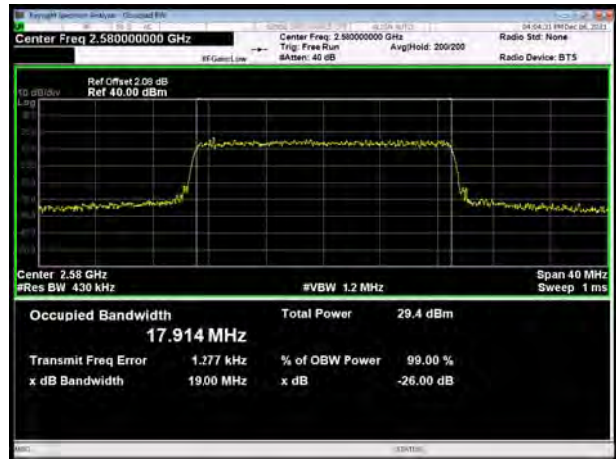




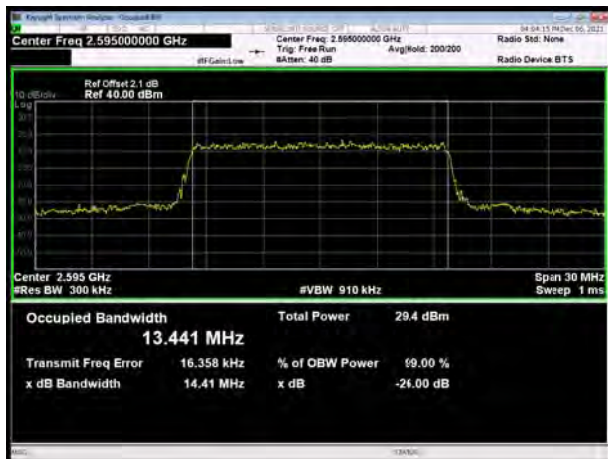
LTE Band 38 QPSK 15MHz CH-Low



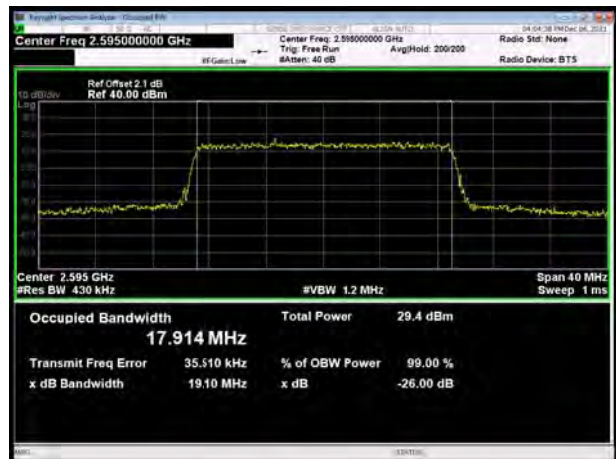
LTE Band 38 QPSK 20MHz CH-Low



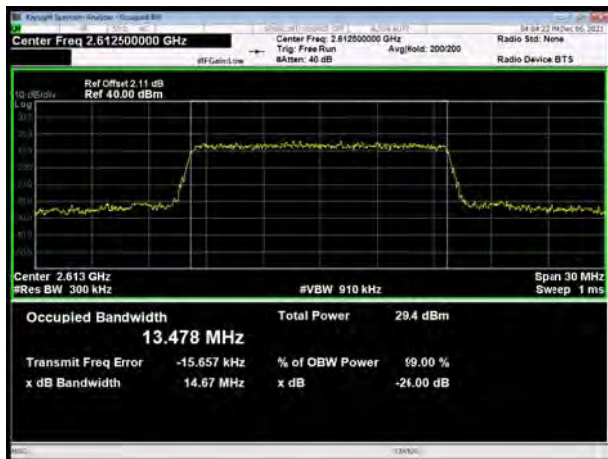
LTE Band 38 QPSK 15MHz CH-Middle



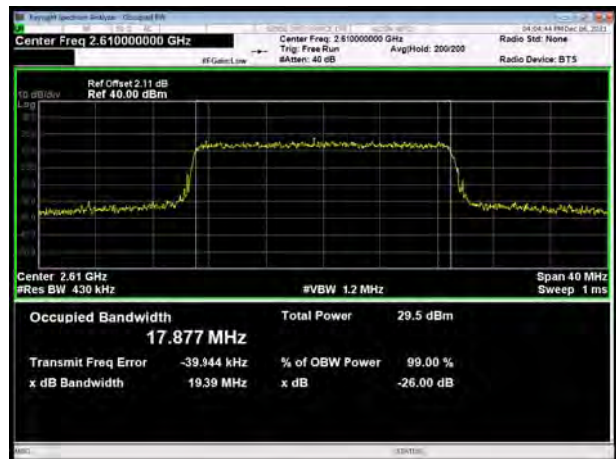
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High

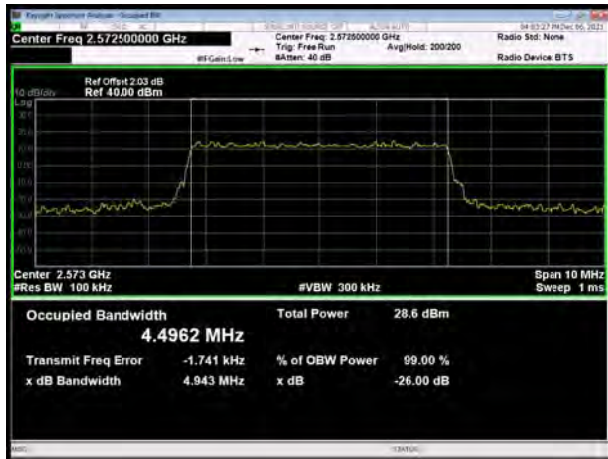


LTE Band 38 QPSK 20MHz CH-High

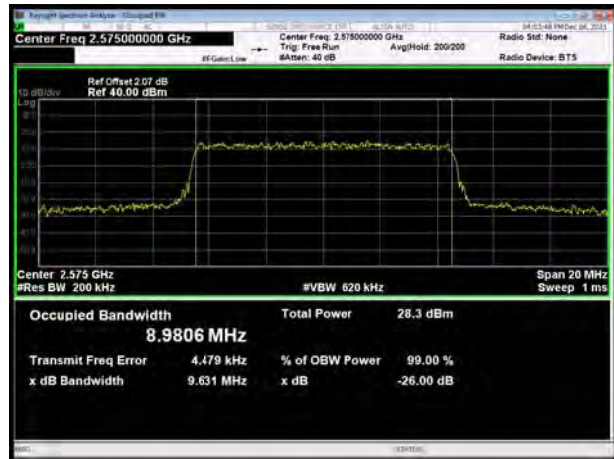




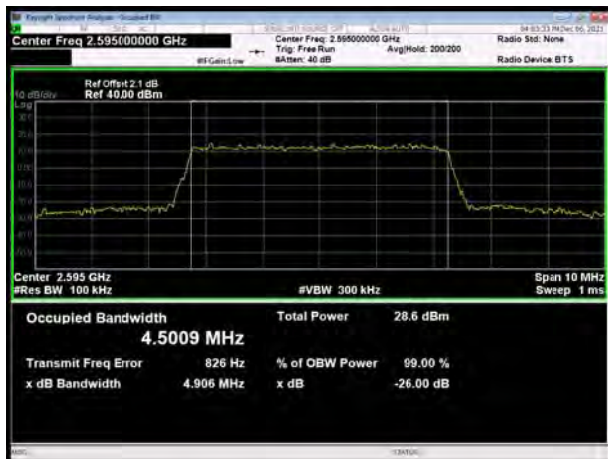
LTE Band 38 16QAM 5MHz CH-Low



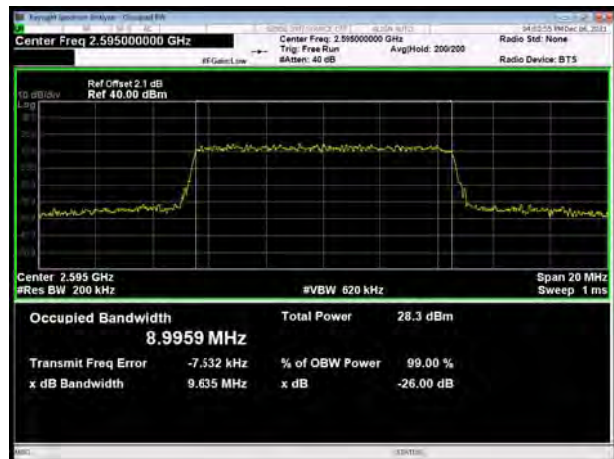
LTE Band 38 16QAM 10MHz CH-Low



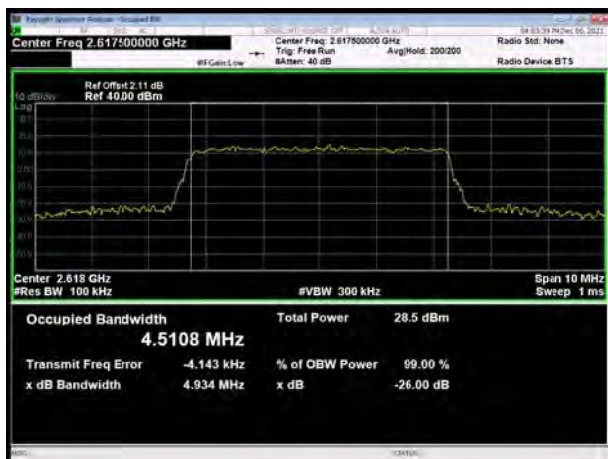
LTE Band 38 16QAM 5MHz CH-Middle



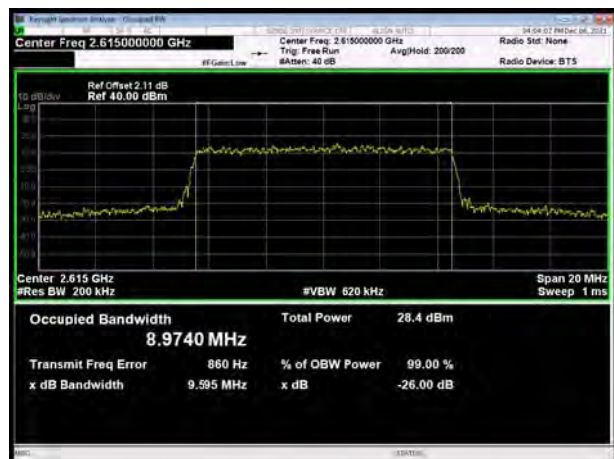
LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High

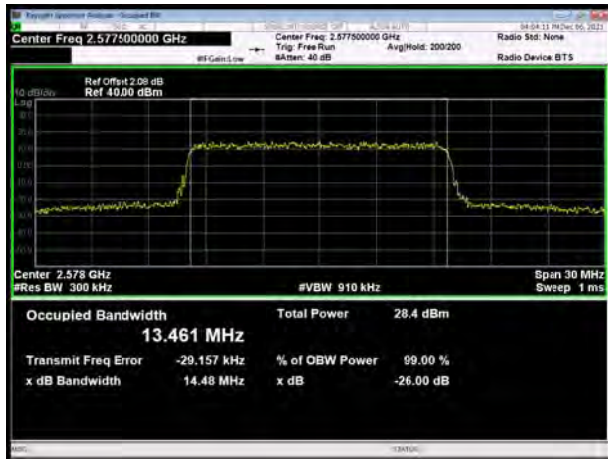


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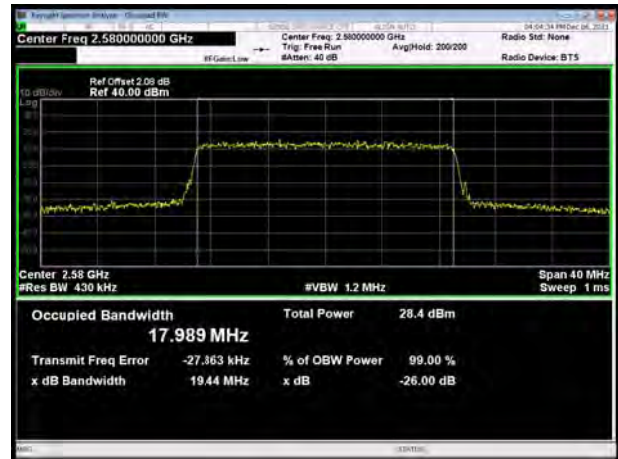




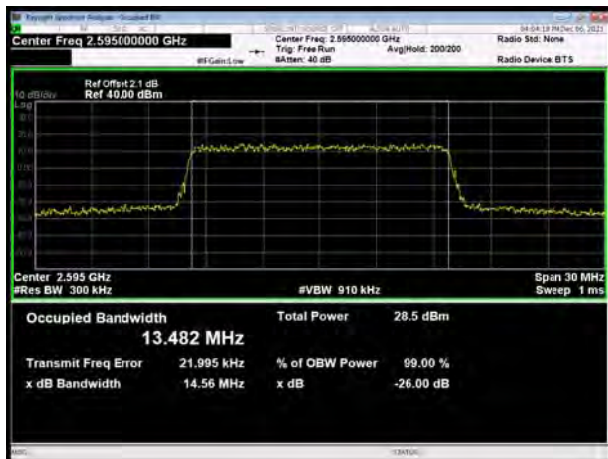
### LTE Band 38 16QAM 15MHz CH-Low



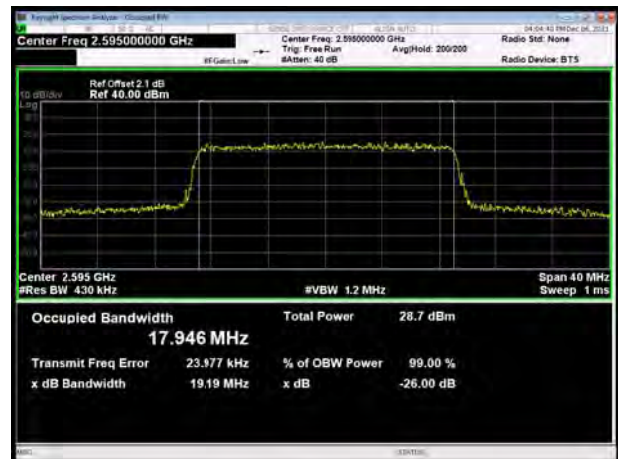
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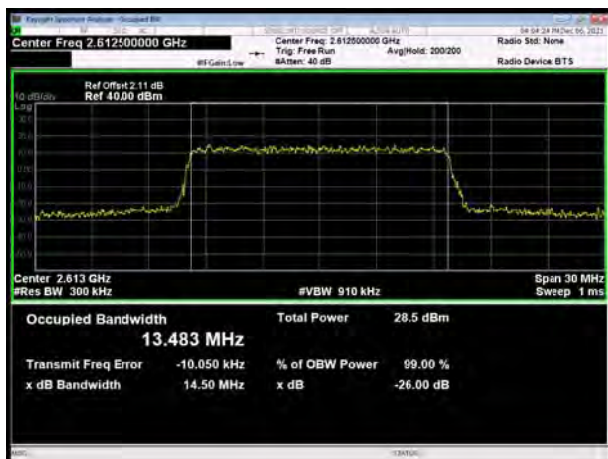
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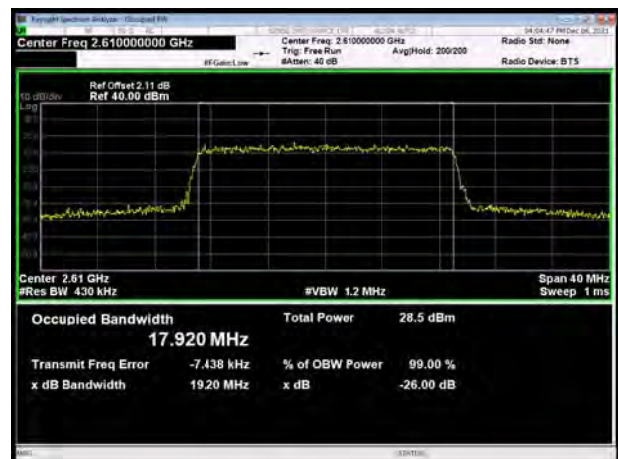
### LTE Band 38 16QAM 20MHz CH-Middle



### LTE Band 38 16QAM 15MHz CH-High

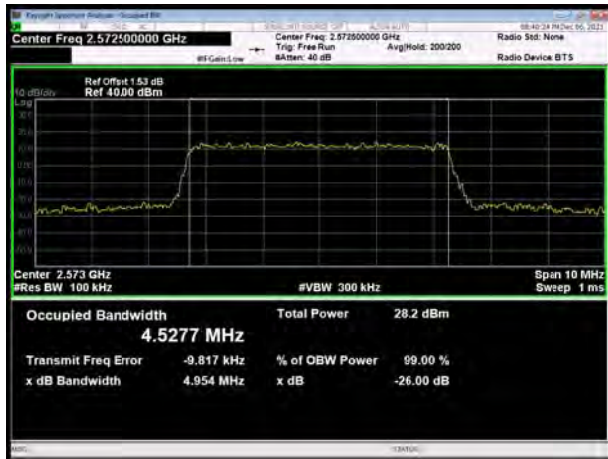


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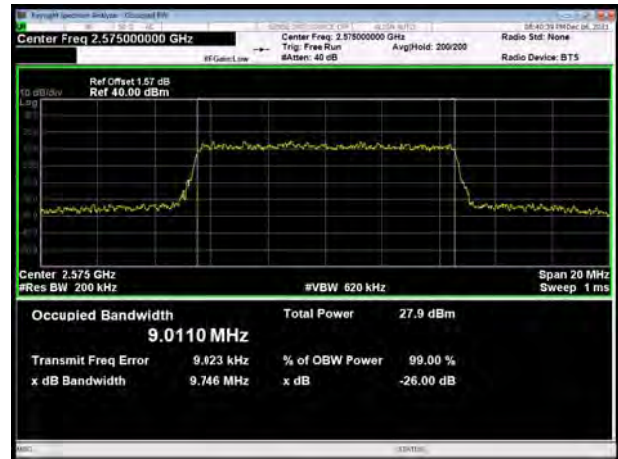




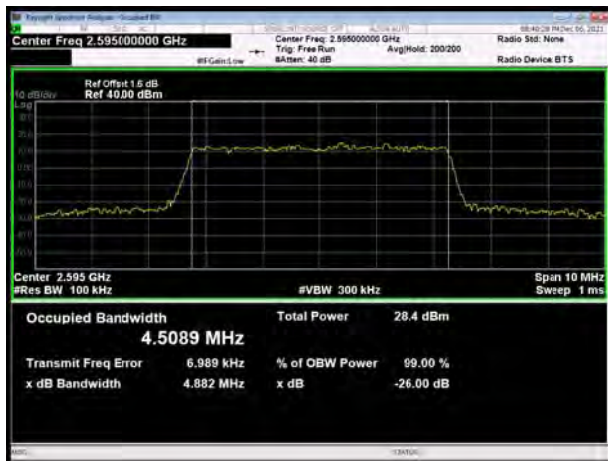
LTE Band 38 64QAM 5MHz CH-Low



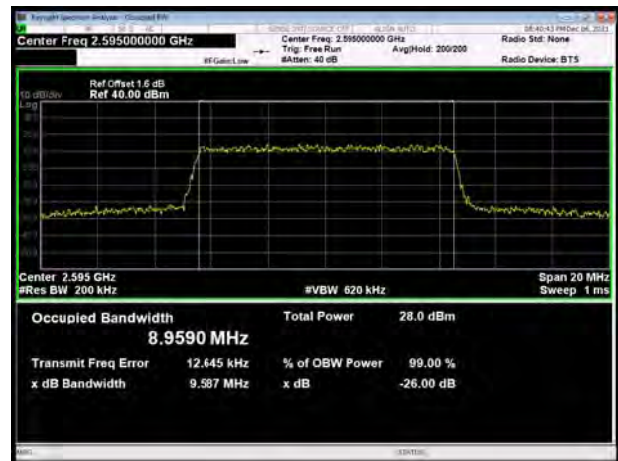
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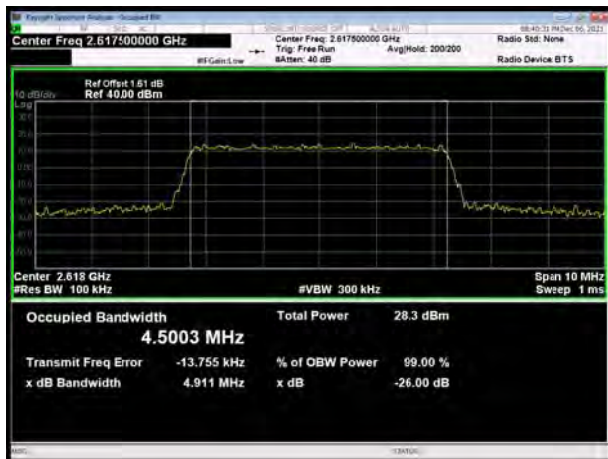
LTE Band 38 64QAM 5MHz CH-Middle



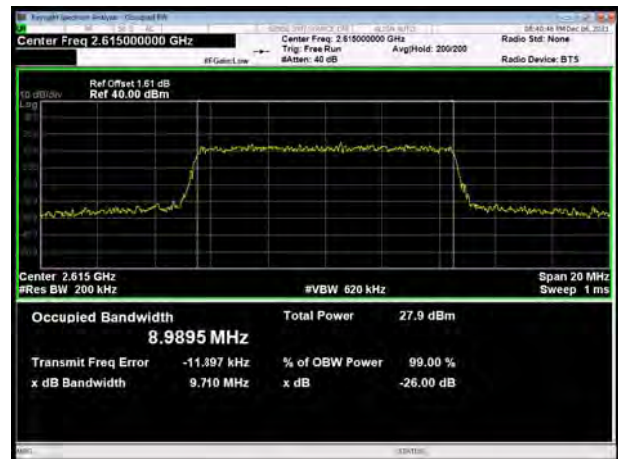
LTE Band 38 64QAM 10MHz CH-Middle



LTE Band 38 64QAM 5MHz CH-High

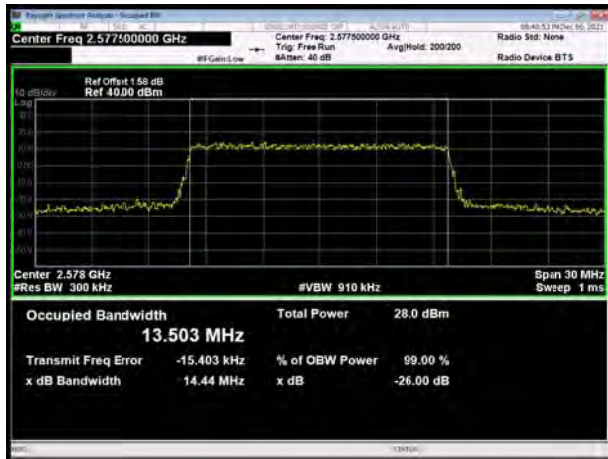


LTE Band 38 64QAM 10MHz CH-High

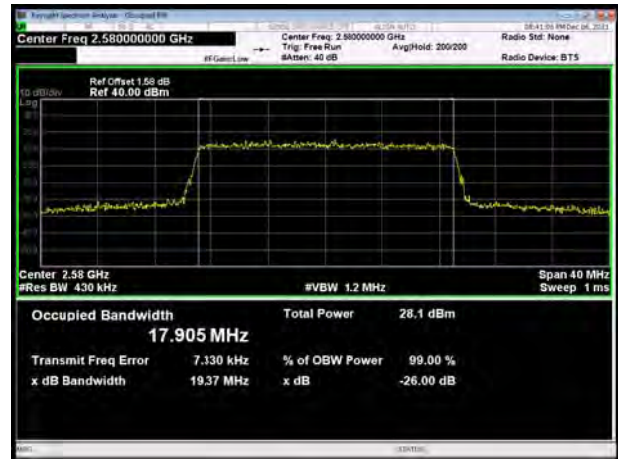




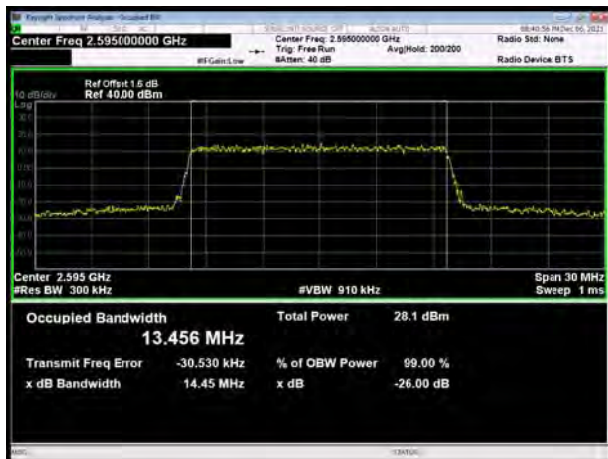
### LTE Band 38 64QAM 15MHz CH-Low



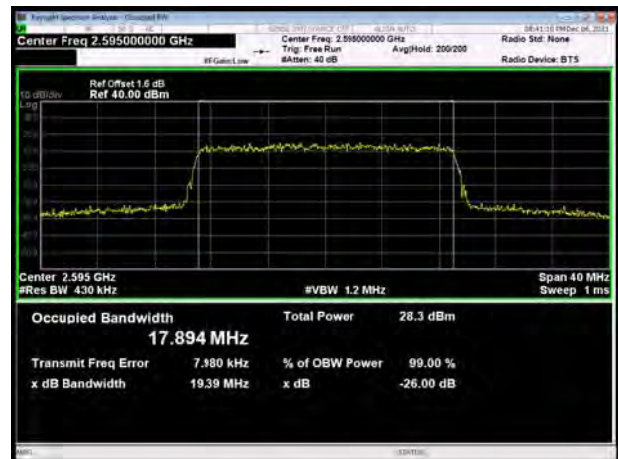
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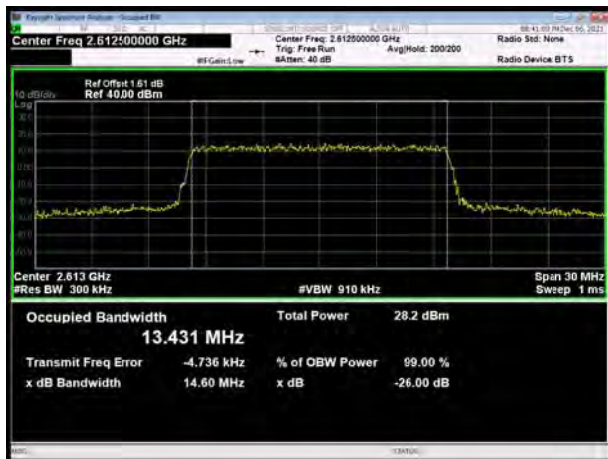
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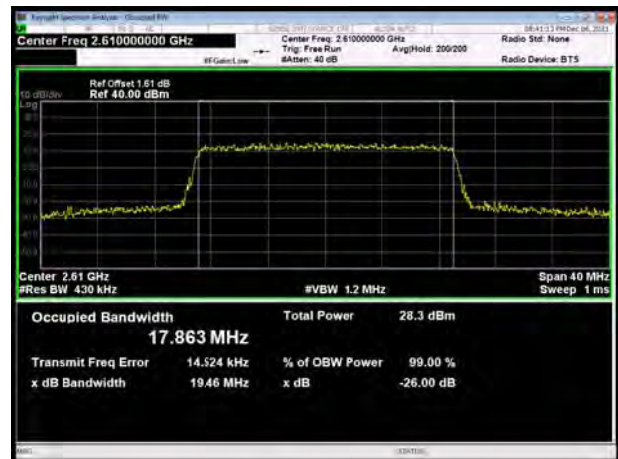
### LTE Band 38 64QAM 20MHz CH-Middle



### LTE Band 38 64QAM 15MHz CH-High

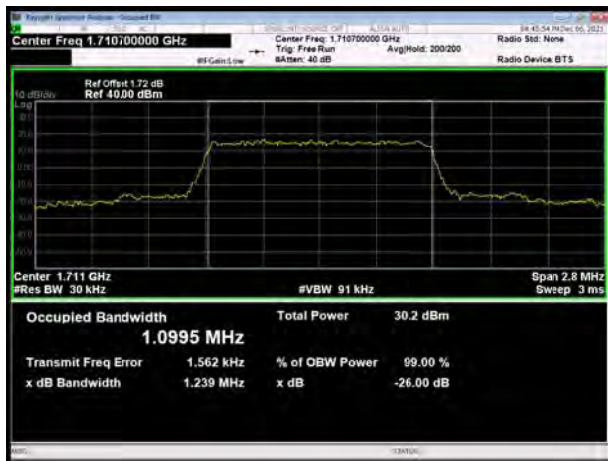


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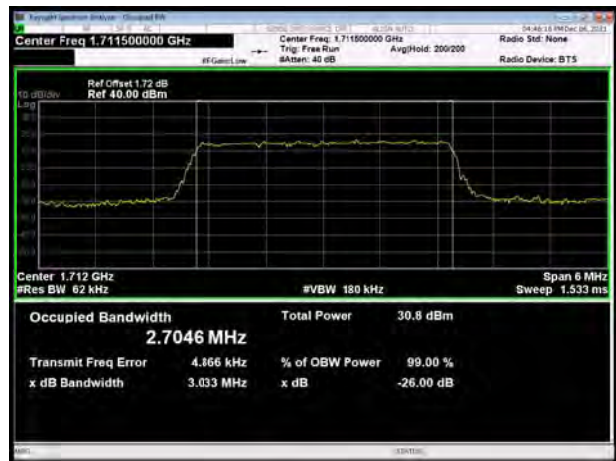




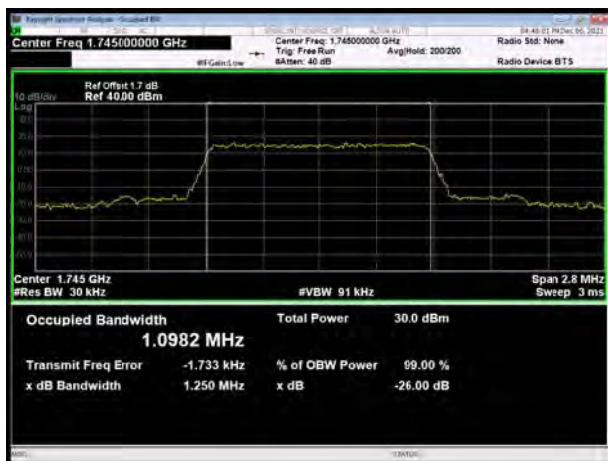
### LTE Band 66 QPSK 1.4MHz CH-Low



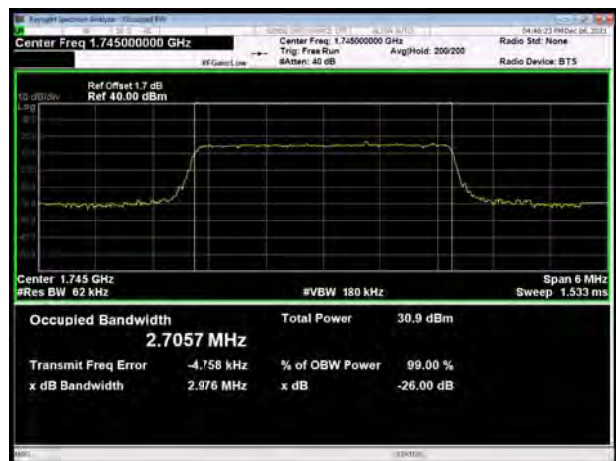
### LTE Band 66 QPSK 3MHz CH-Low



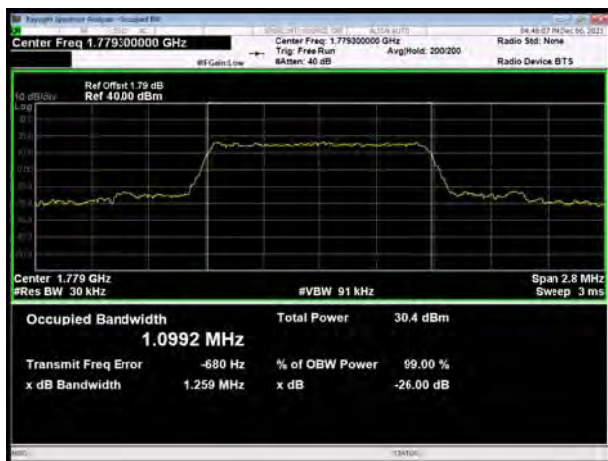
### LTE Band 66 QPSK 1.4MHz CH-Middle



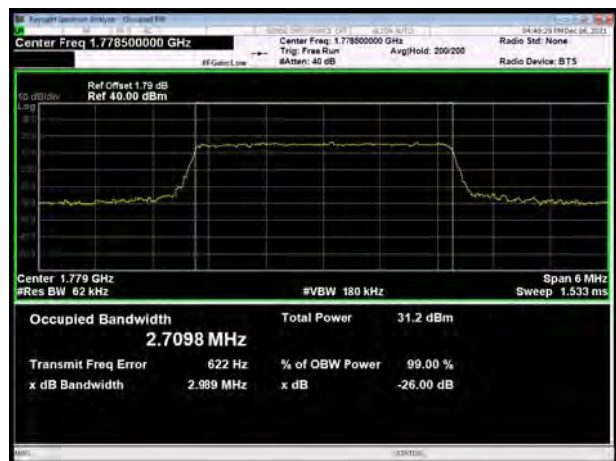
### LTE Band 66 QPSK 3MHz CH-Middle



### LTE Band 66 QPSK 1.4MHz CH-High



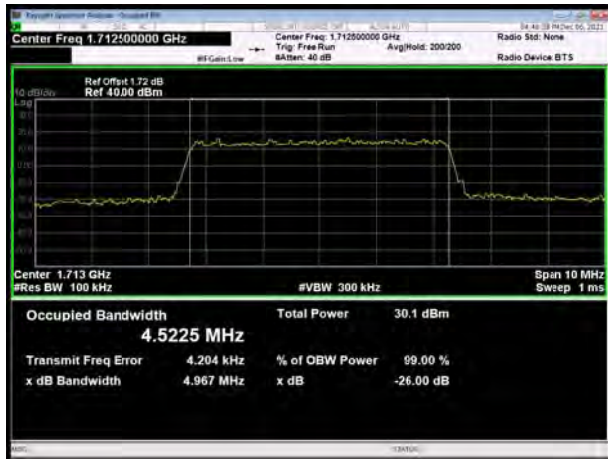
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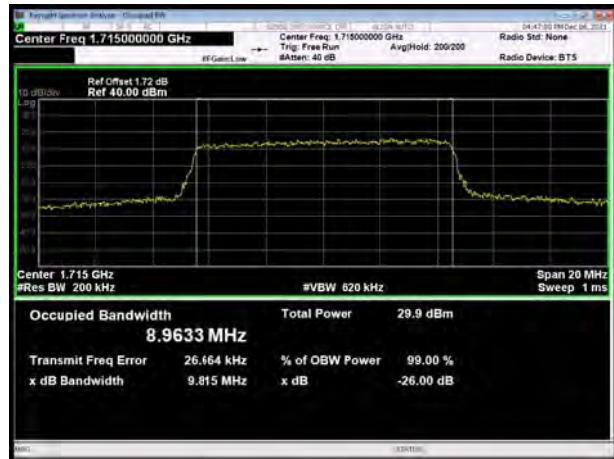




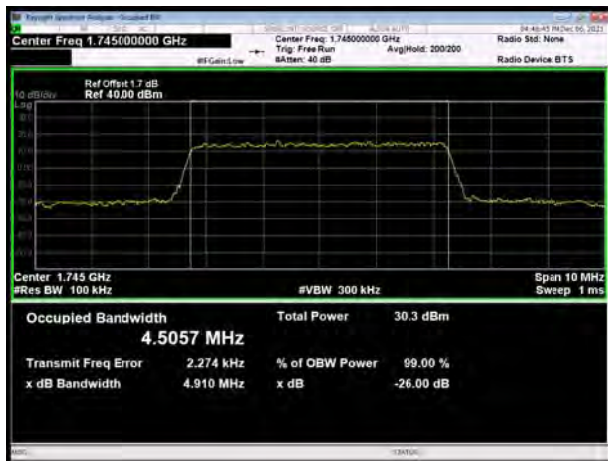
### LTE Band 66 QPSK 5MHz CH-Low



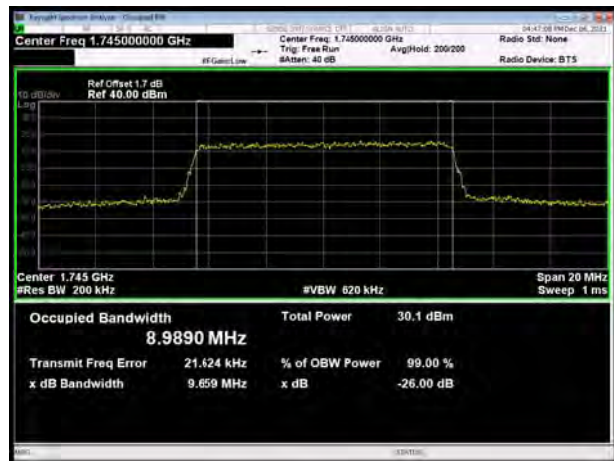
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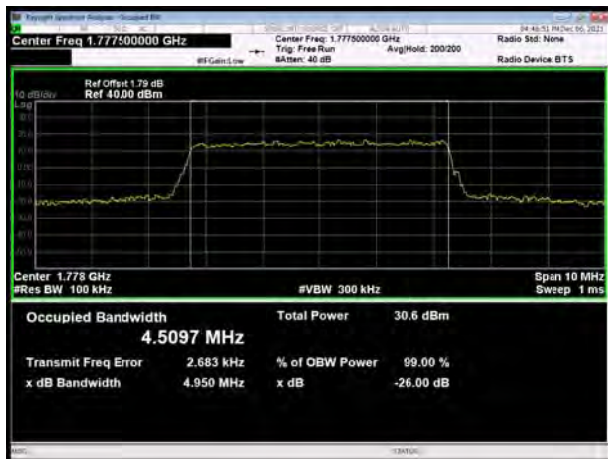
### LTE Band 66 QPSK 5MHz CH-Middle



### LTE Band 66 QPSK 10MHz CH-Middle



### LTE Band 66 QPSK 5MHz CH-High

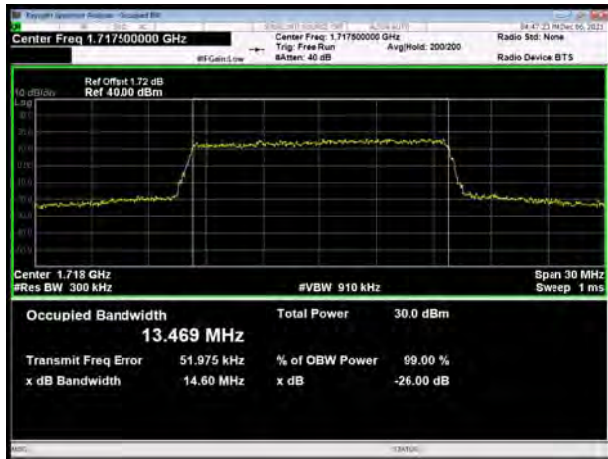


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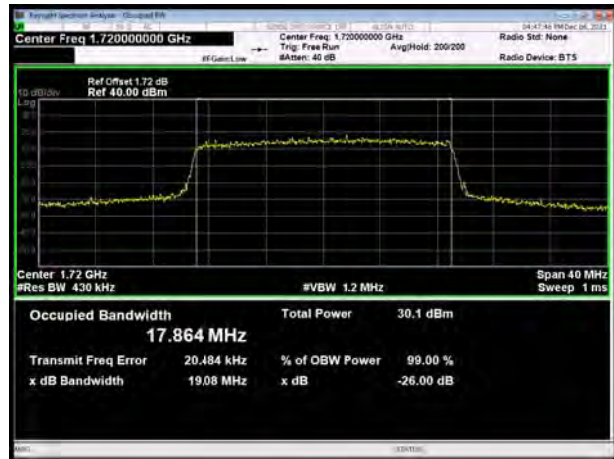




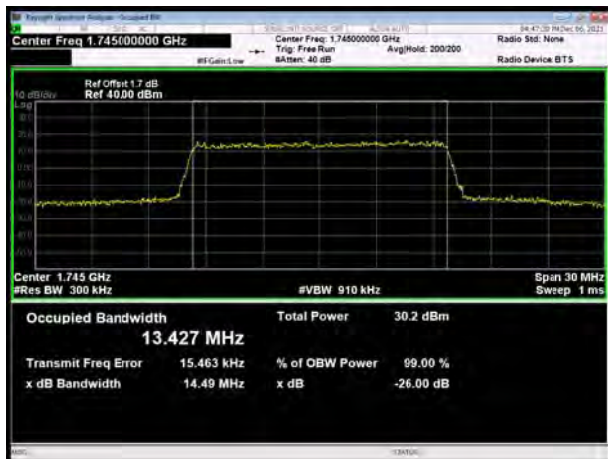
LTE Band 66 QPSK 15MHz CH-Low



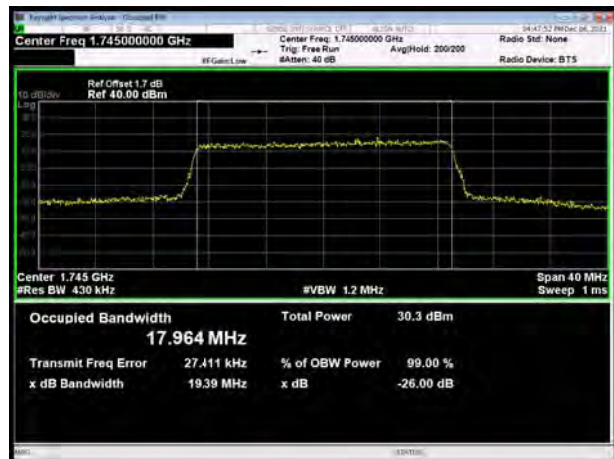
LTE Band 66 QPSK 20MHz CH-Low



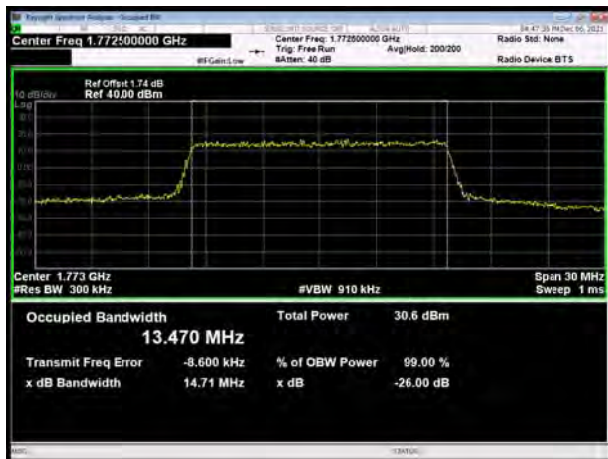
LTE Band 66 QPSK 15MHz CH-Middle



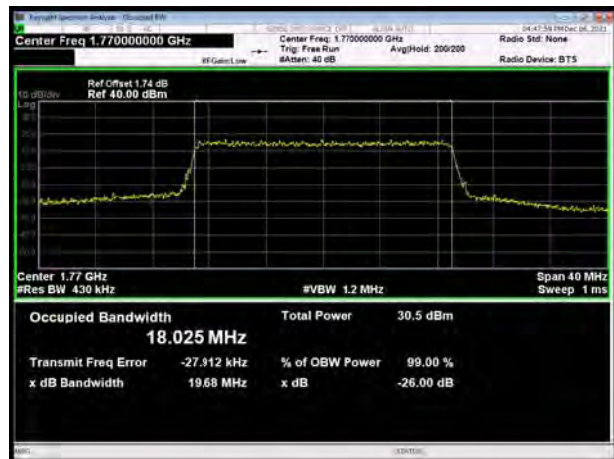
LTE Band 66 QPSK 20MHz CH-Middle



LTE Band 66 QPSK 15MHz CH-High

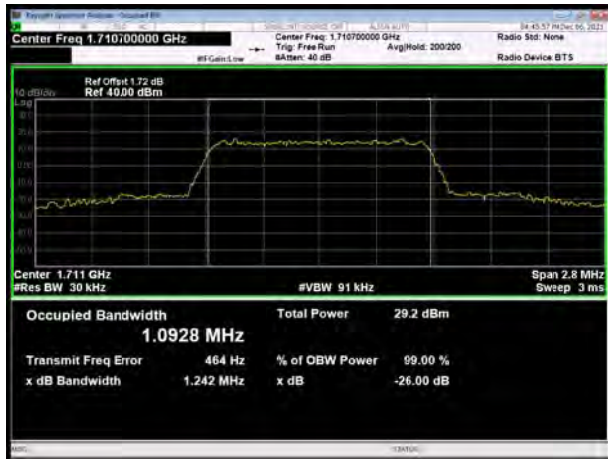


LTE Band 66 QPSK 20MHz CH-High

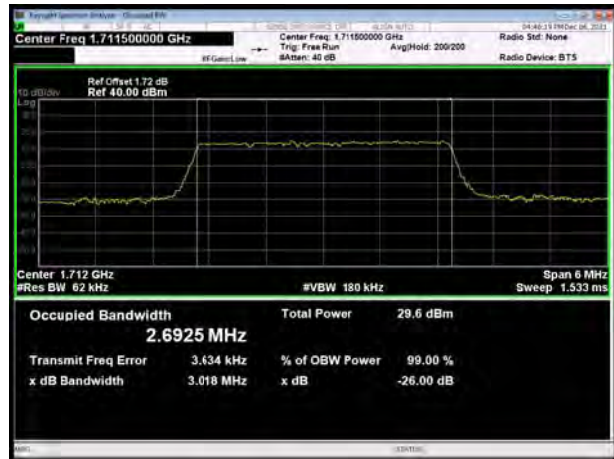




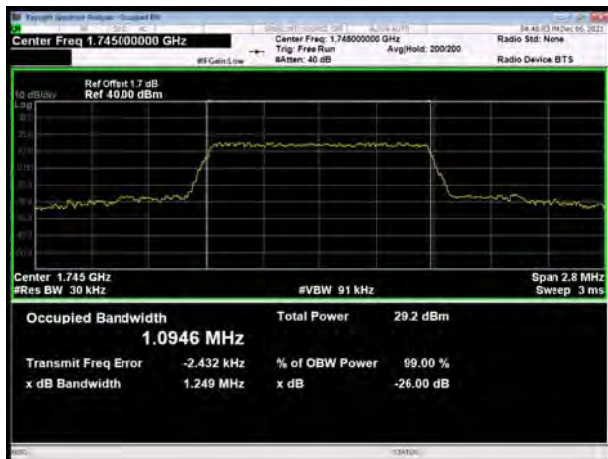
### LTE Band 66 16QAM 1.4MHz CH-Low



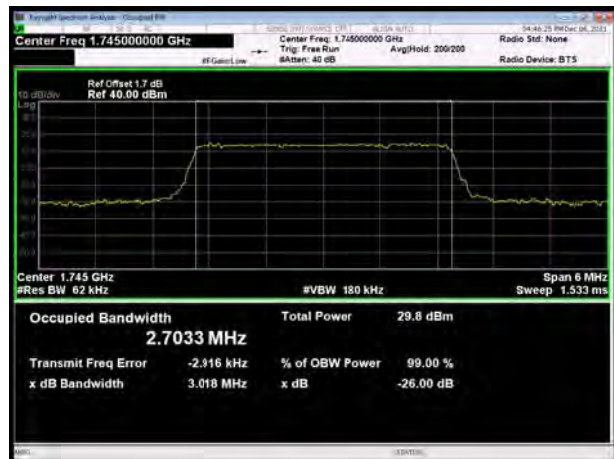
### LTE Band 66 16QAM 3MHz CH-Low



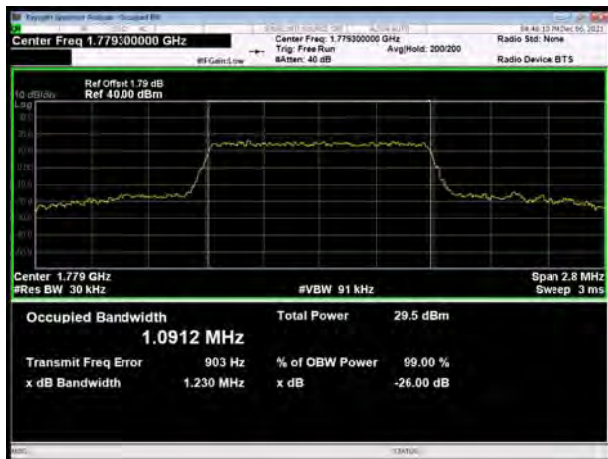
### LTE Band 66 16QAM 1.4MHz CH-Middle



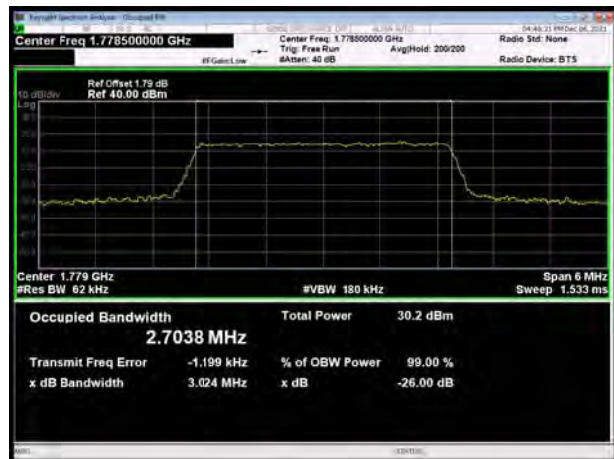
### LTE Band 66 16QAM 3MHz CH-Middle



### LTE Band 66 16QAM 1.4MHz CH-High

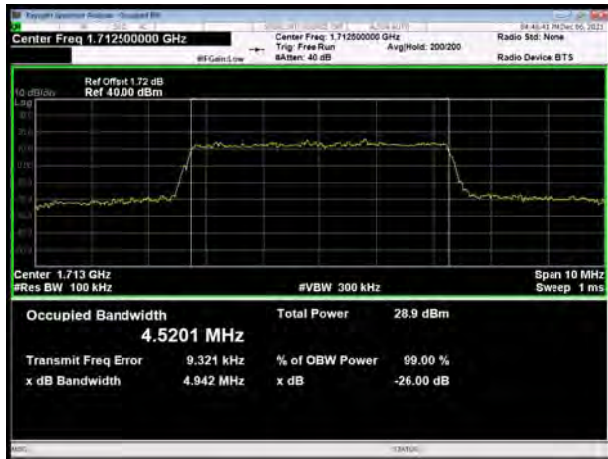


### LTE Band 66 16QAM 3MHz CH-High

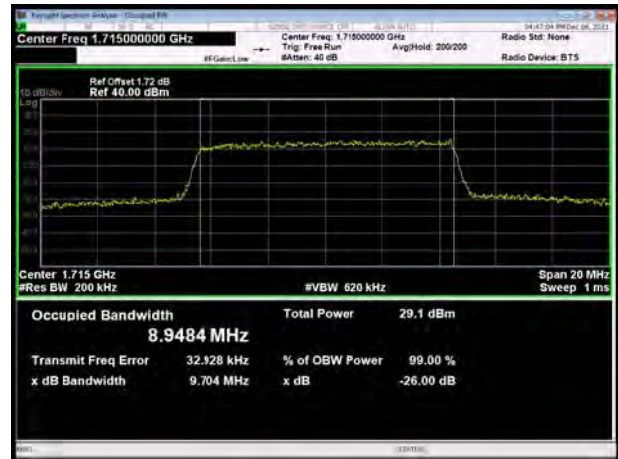




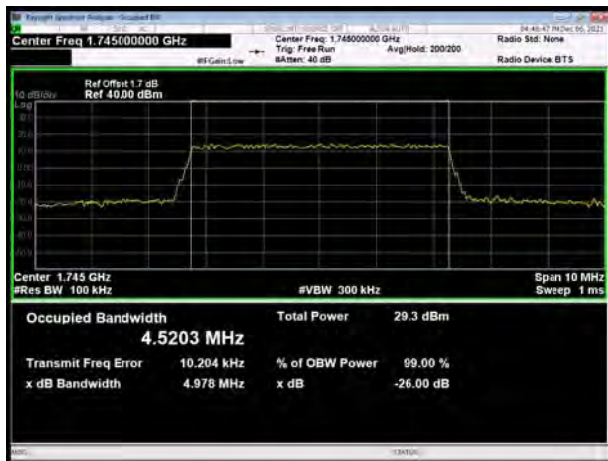
### LTE Band 66 16QAM 5MHz CH-Low



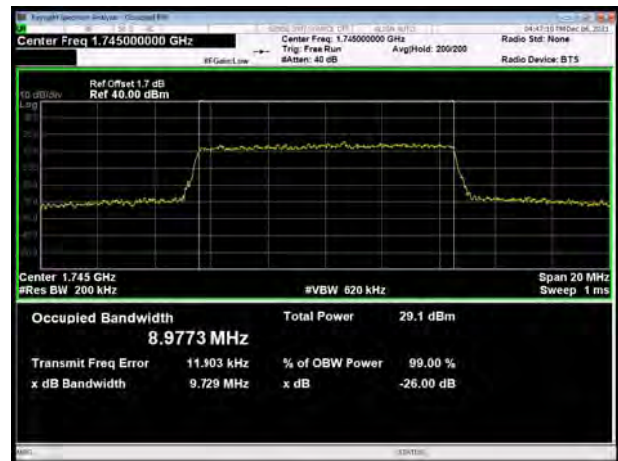
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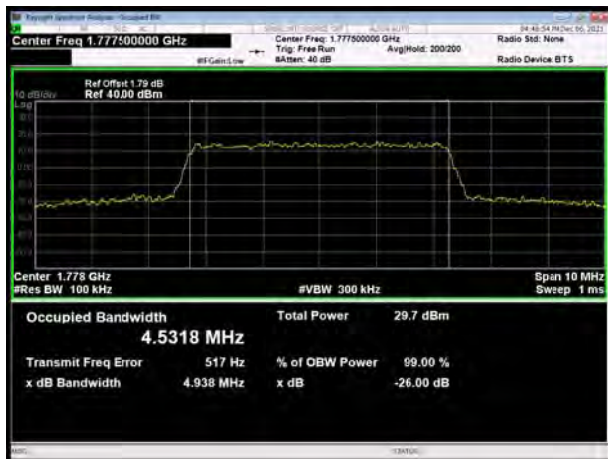
### LTE Band 66 16QAM 5MHz CH-Middle



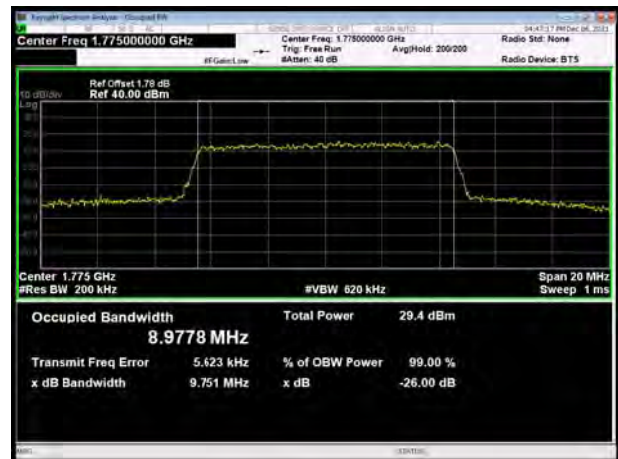
### LTE Band 66 16QAM 10MHz CH-Middle



### LTE Band 66 16QAM 5MHz CH-High

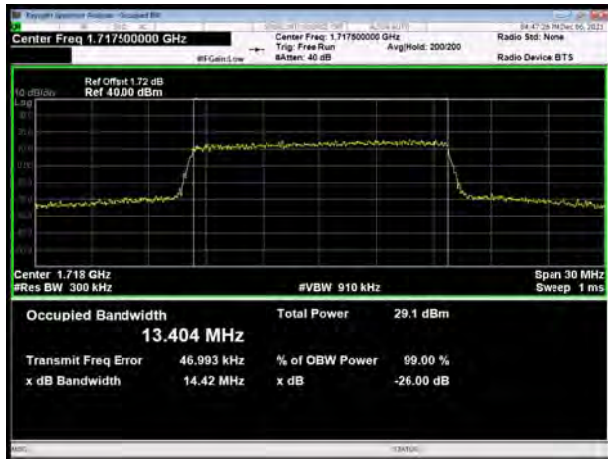


### LTE Band 66 16QAM 10MHz CH-High

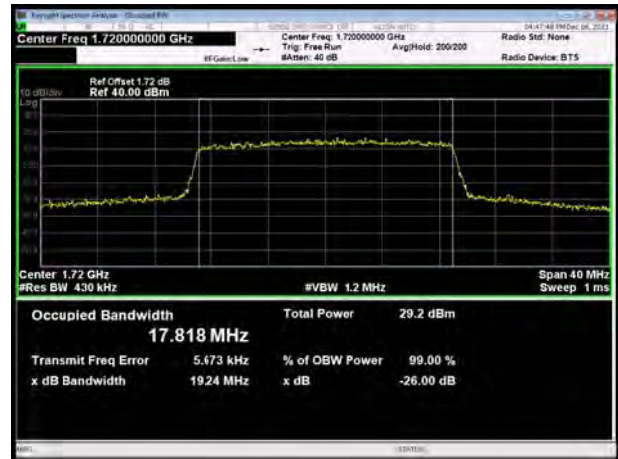




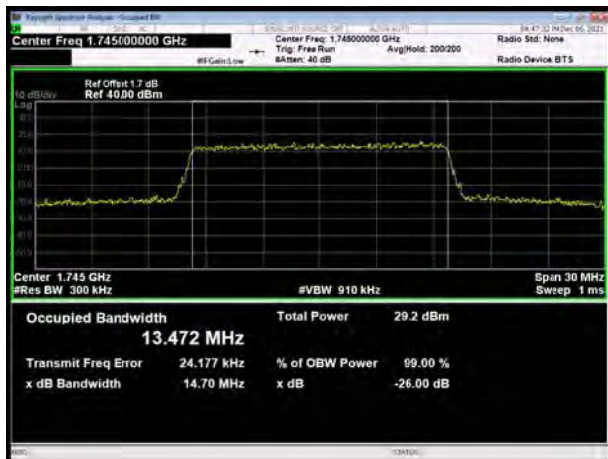
LTE Band 66 16QAM 15MHz CH-Low



LTE Band 66 16QAM 20MHz CH-Low



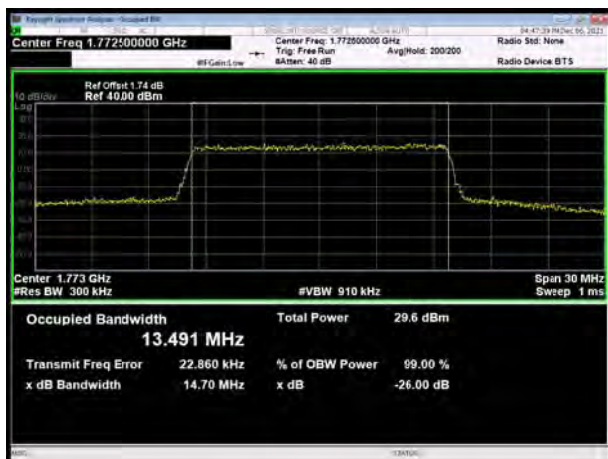
LTE Band 66 16QAM 15MHz CH-Middle



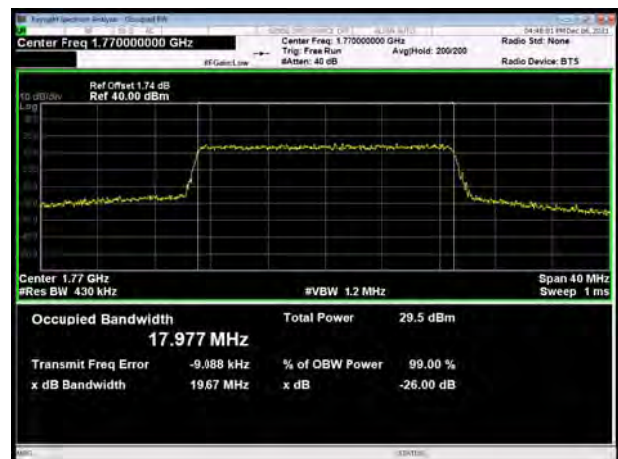
LTE Band 66 16QAM 20MHz CH-Middle



LTE Band 66 16QAM 15MHz CH-High

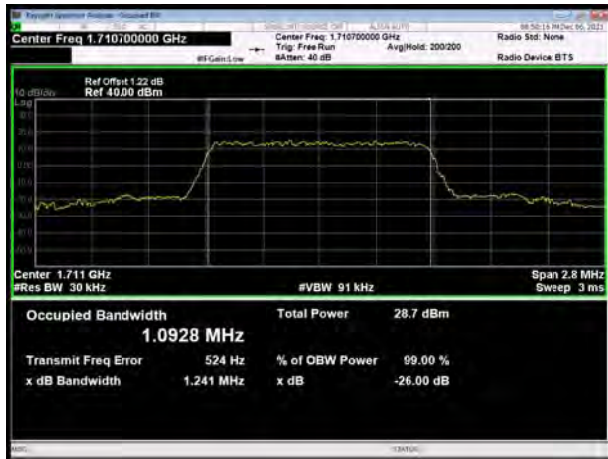


LTE Band 66 16QAM 20MHz CH-High

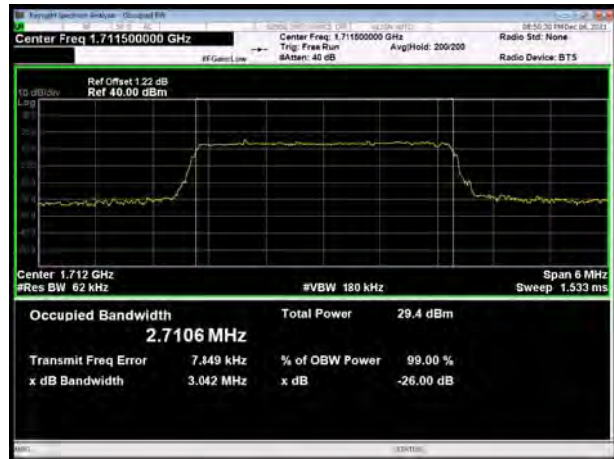




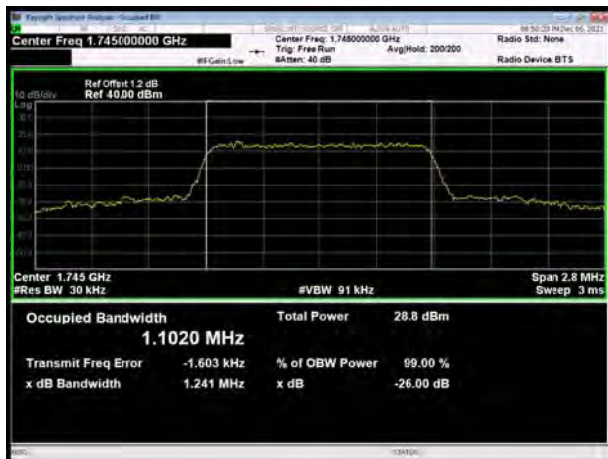
LTE Band 66 64QAM 1.4MHz CH-Low



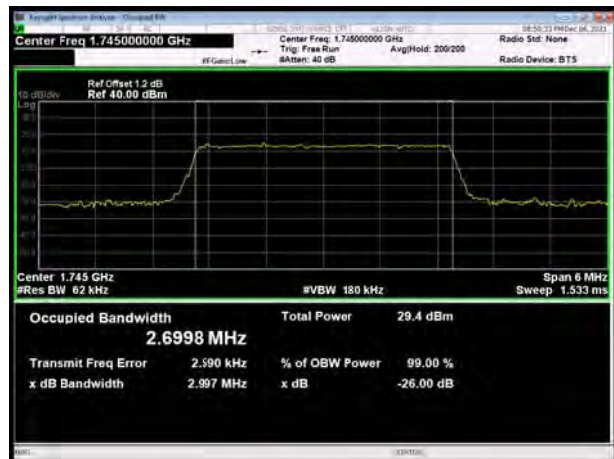
LTE Band 66 64QAM 3MHz CH-Low



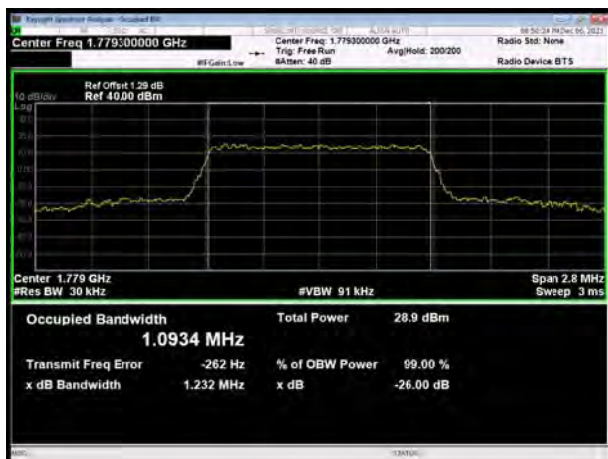
LTE Band 66 64QAM 1.4MHz CH-Middle



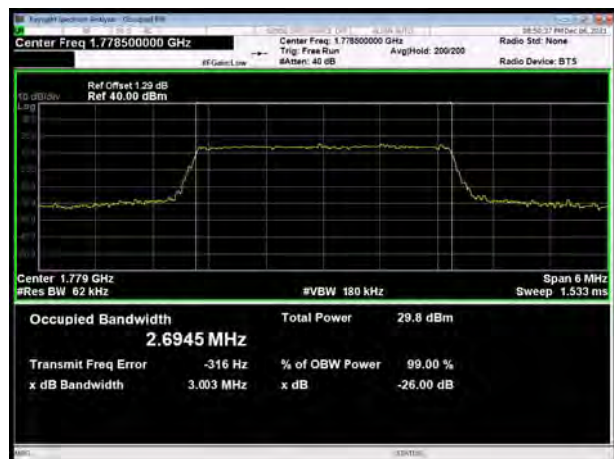
LTE Band 66 64QAM 3MHz CH-Middle



LTE Band 66 64QAM 1.4MHz CH-High

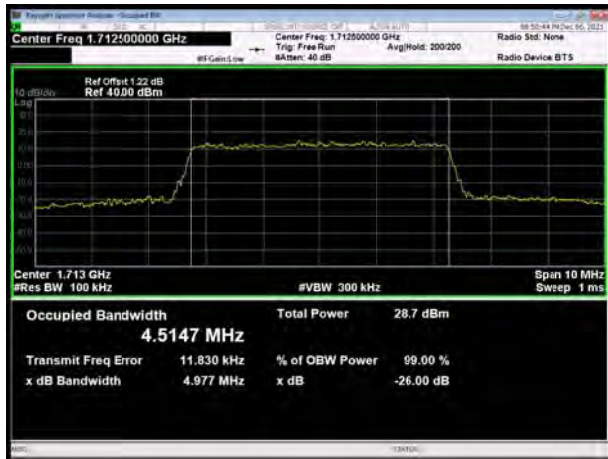


LTE Band 66 64QAM 3MHz CH-High

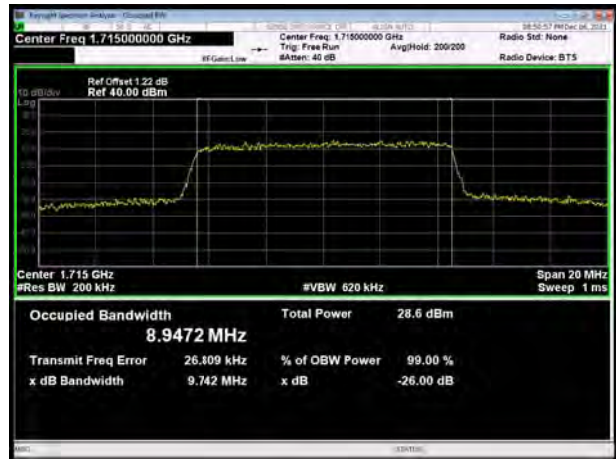




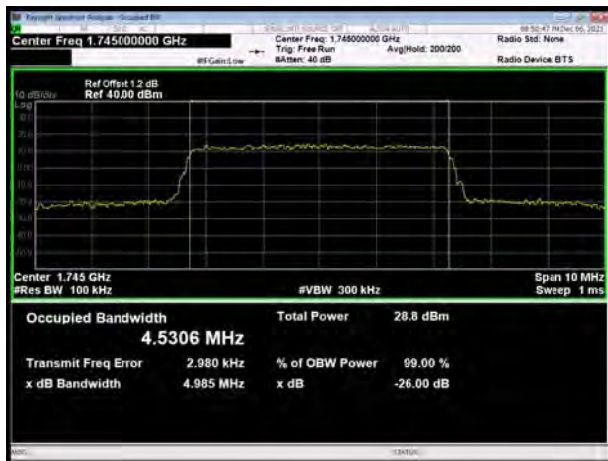
LTE Band 66 64QAM 5MHz CH-Low



LTE Band 66 64QAM 10MHz CH-Low



LTE Band 66 64QAM 5MHz CH-Middle



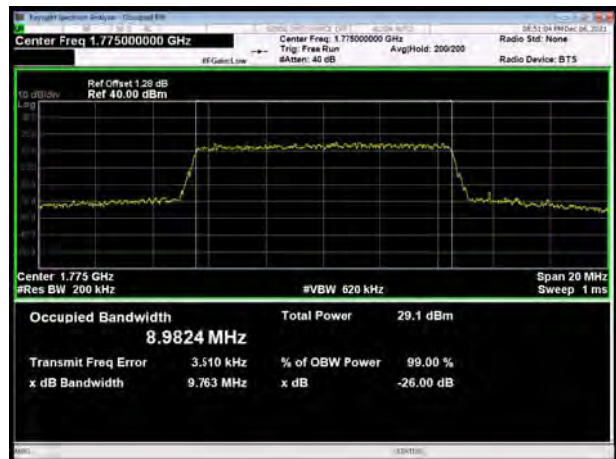
LTE Band 66 64QAM 10MHz CH-Middle



LTE Band 66 64QAM 5MHz CH-High

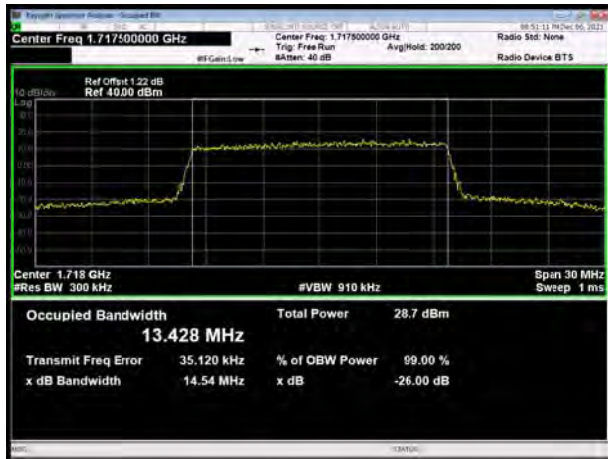


LTE Band 66 64QAM 10MHz CH-High

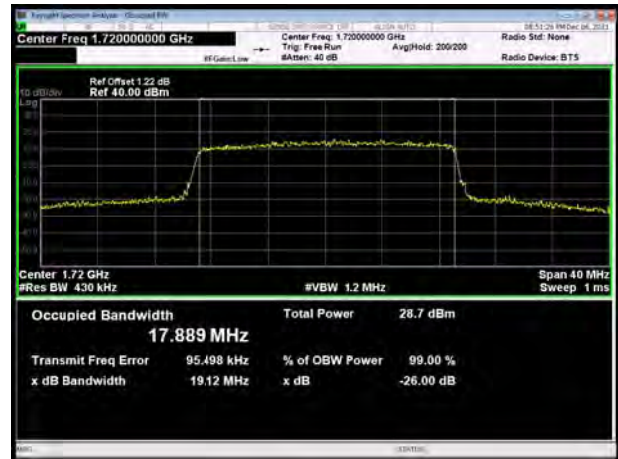




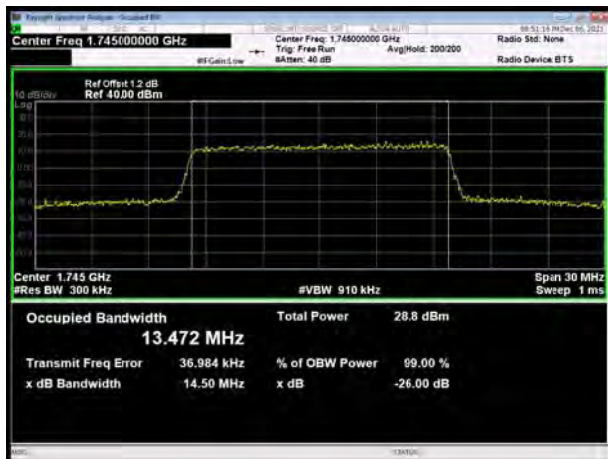
### LTE Band 66 64QAM 15MHz CH-Low



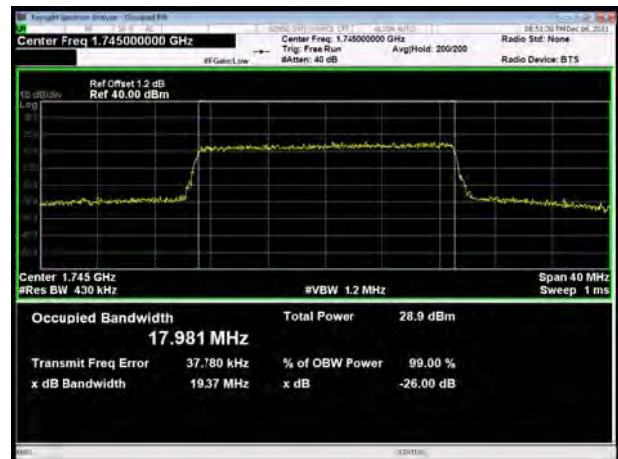
### LTE Band 66 64QAM 20MHz CH-Low



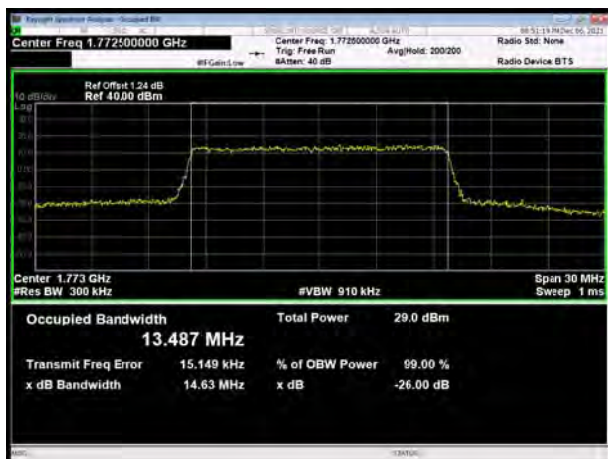
### LTE Band 66 64QAM 15MHz CH-Middle



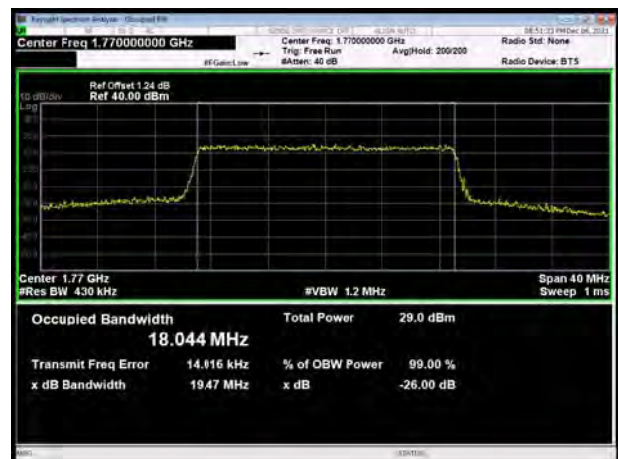
### LTE Band 66 64QAM 20MHz CH-Middle



### LTE Band 66 64QAM 15MHz CH-High



### LTE Band 66 64QAM 20MHz CH-High





### 5.3 Band Edge Compliance

#### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

For LTE Band 7/38 set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

RBW is set to  $\geq$ 1%EBW, VBW is set to 3x RBW.

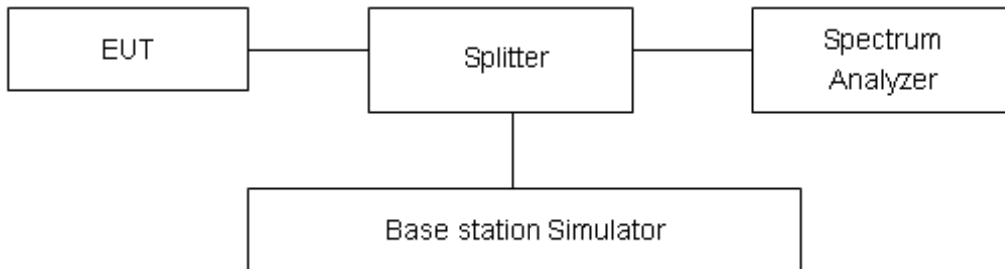
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

#### Test Setup



#### Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB”

Rule Part 27.53(m) (4)/ specifies that “for BRS and EBS stations. For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual



emission bandwidth as defined in paragraph (m)(4) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Example:

The limit line is derived from  $43 + 10 \log (P)$  dB below the transmitter power  $P$ (Watts)

$= P(W) - [43 + 10 \log (P)]$  (dB)

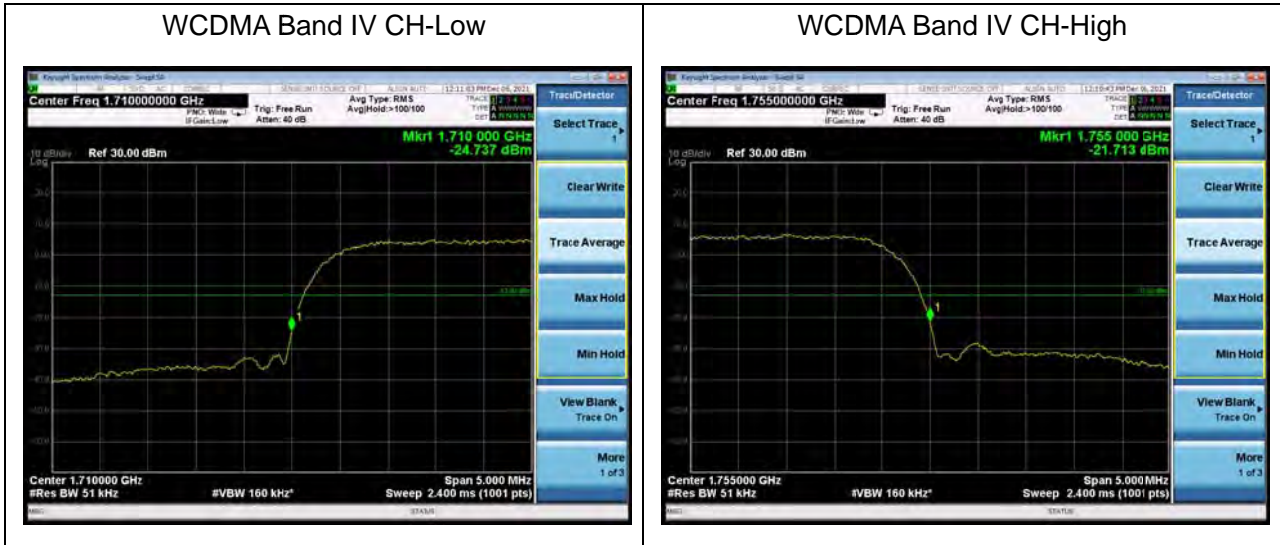
$= [30 + 10 \log (P)]$  (dBm) -  $[43 + 10 \log (P)]$  (dB) = -13dBm.

### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U=0.684$ dB.

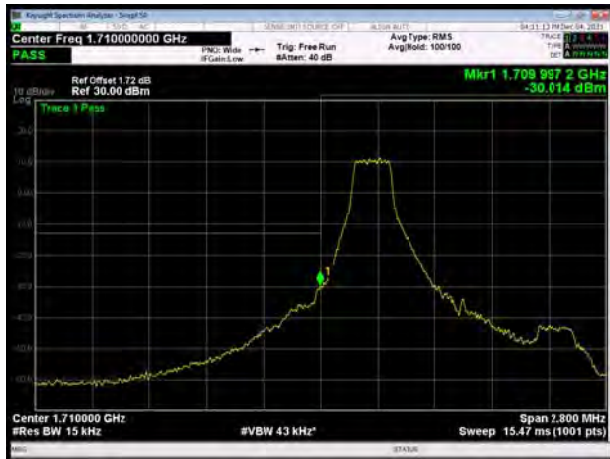
### Test Result

All the test traces in the plots shows the test results clearly.

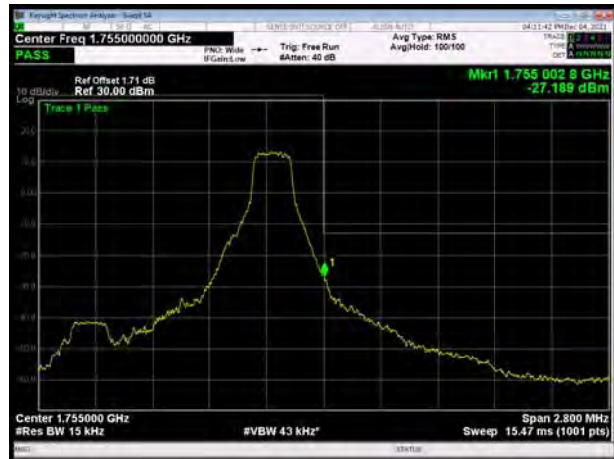




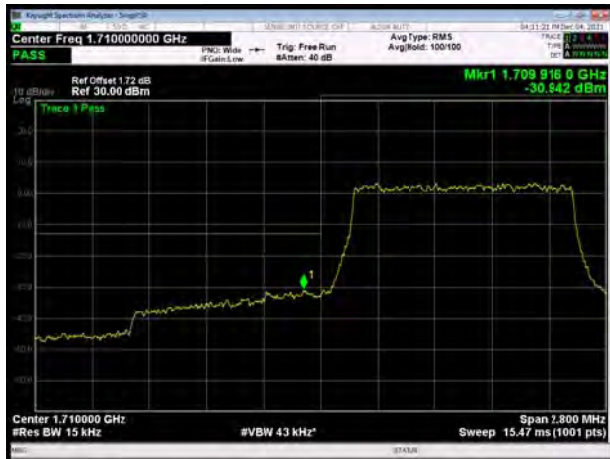
LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



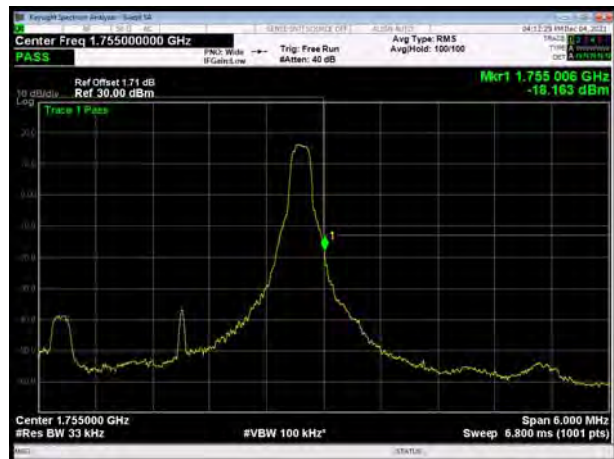
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



LTE Band 4 QPSK 3MHz CH-Low, 1 RB

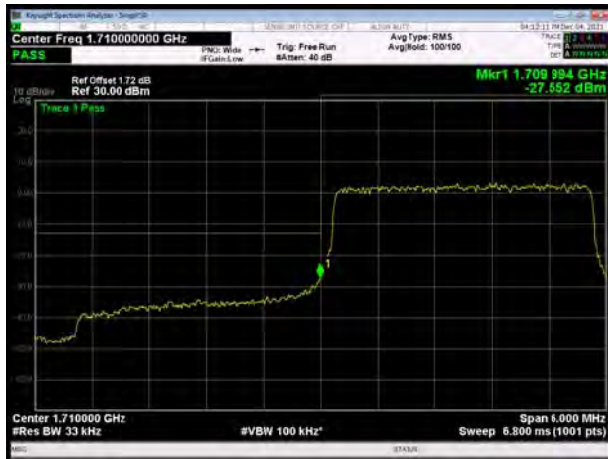


LTE Band 4 QPSK 3MHz CH-High, 1 RB





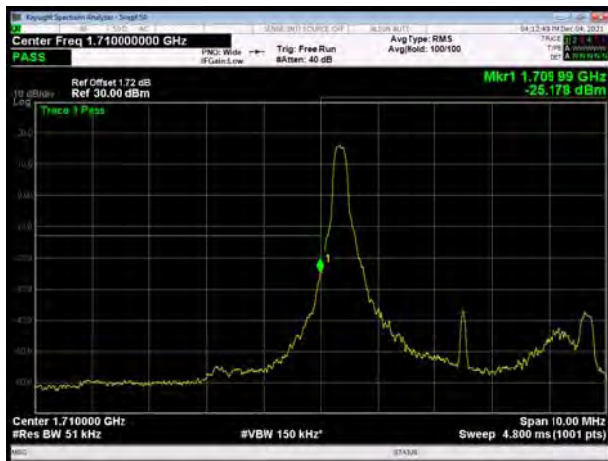
LTE Band 4 QPSK 3MHz CH-Low, 100%RB



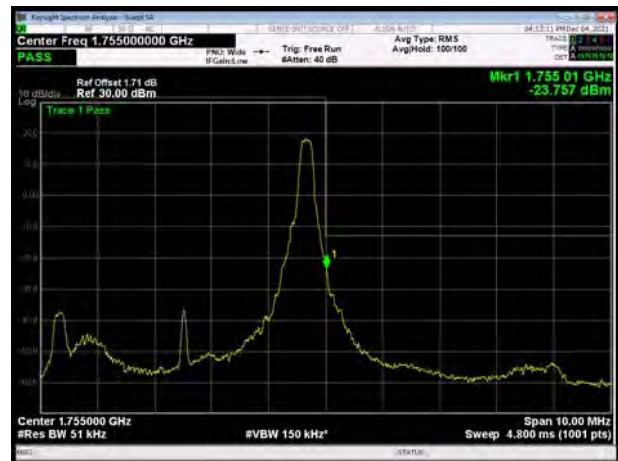
LTE Band 4 QPSK 3MHz CH-High, 100%RB



LTE Band 4 QPSK 5MHz CH-Low, 1 RB



LTE Band 4 QPSK 5MHz CH-High, 1 RB



LTE Band 4 QPSK 5MHz CH-Low, 100%RB

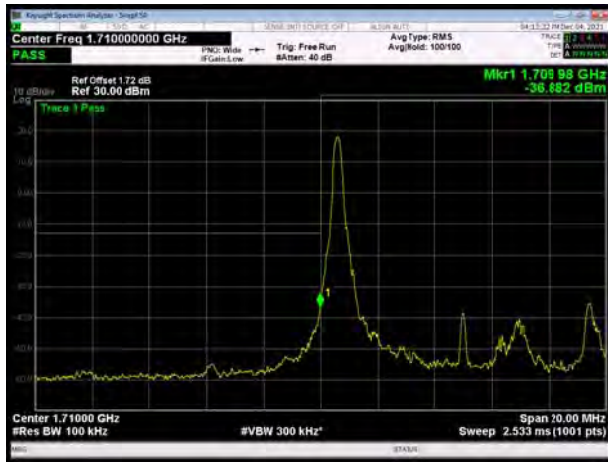


LTE Band 4 QPSK 5MHz CH-High, 100%RB

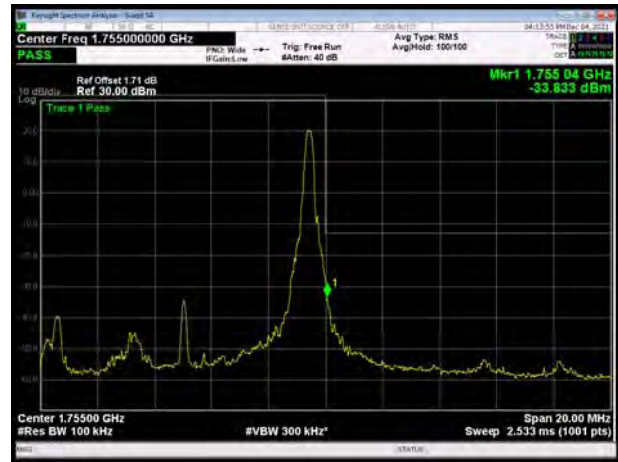




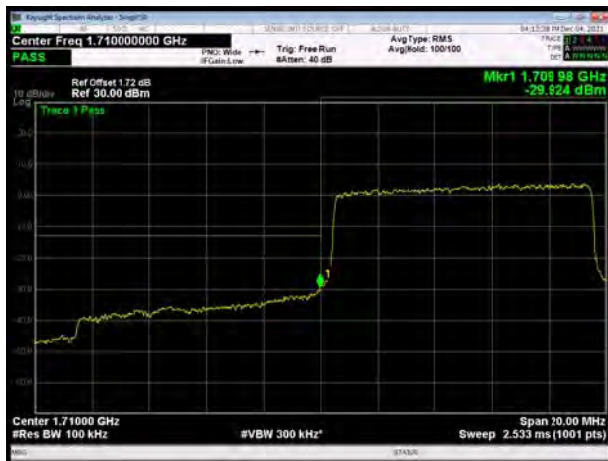
LTE Band 4 QPSK 10MHz CH-Low, 1 RB



LTE Band 4 QPSK 10MHz CH-High, 1 RB



LTE Band 4 QPSK 10MHz CH-Low, 100%RB



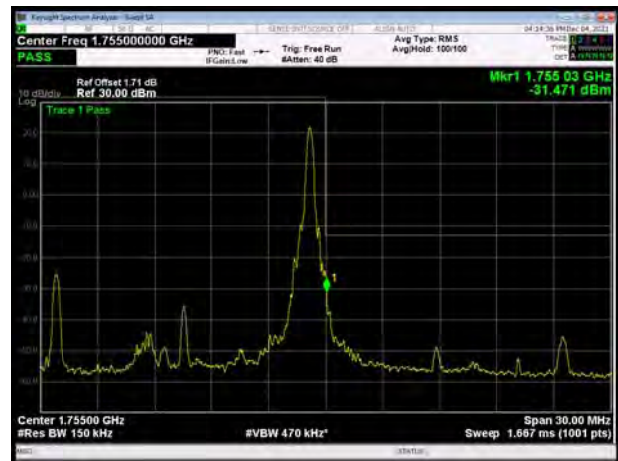
LTE Band 4 QPSK 10MHz CH-High, 100%RB



LTE Band 4 QPSK 15MHz CH-Low, 1 RB



LTE Band 4 QPSK 15MHz CH-High, 1 RB

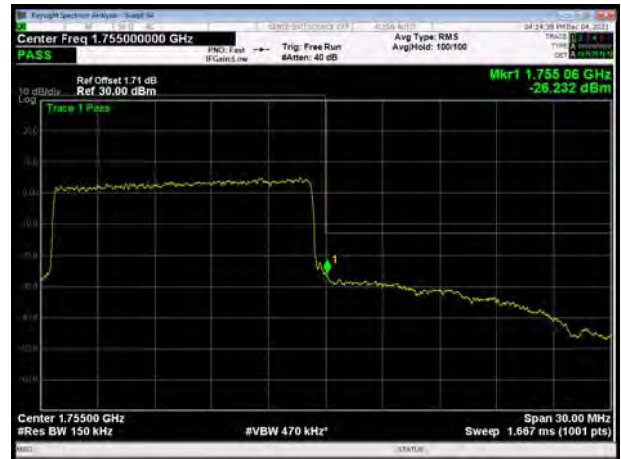




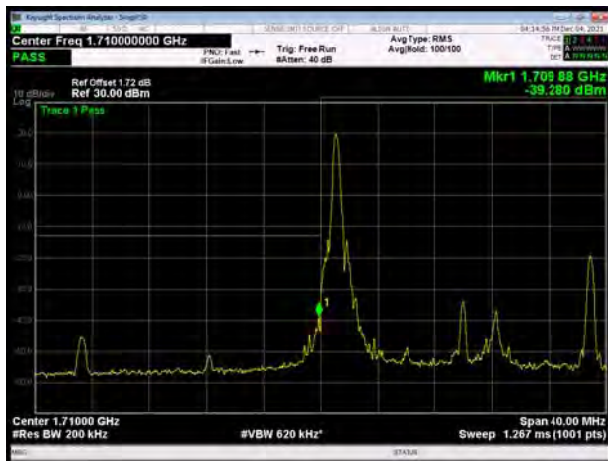
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



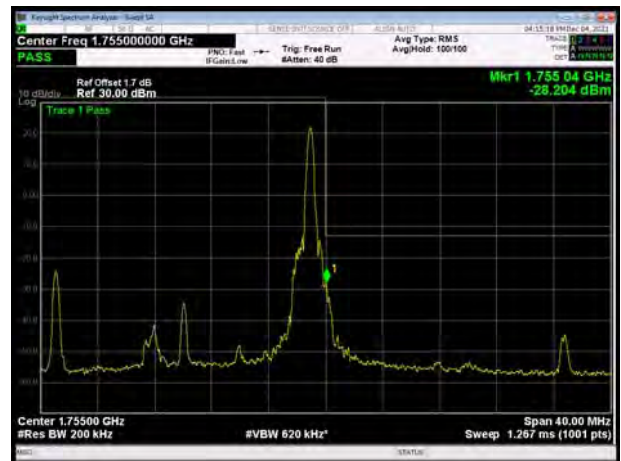
LTE Band 4 QPSK 15MHz CH-High, 100%RB



LTE Band 4 QPSK 20MHz CH-Low, 1 RB



LTE Band 4 QPSK 20MHz CH-High, 1 RB



LTE Band 4 QPSK 20MHz CH-Low, 100%RB

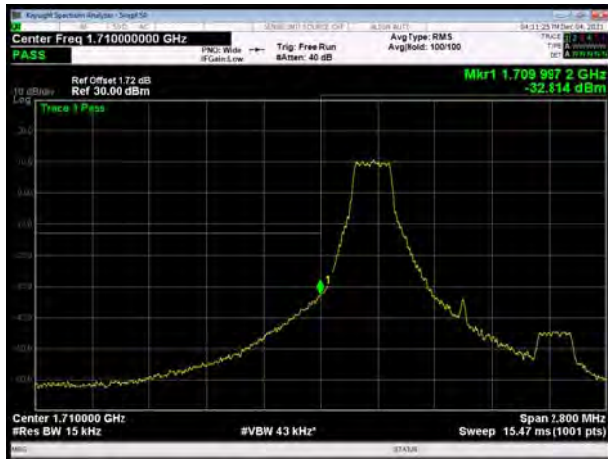


LTE Band 4 QPSK 20MHz CH-High, 100%RB

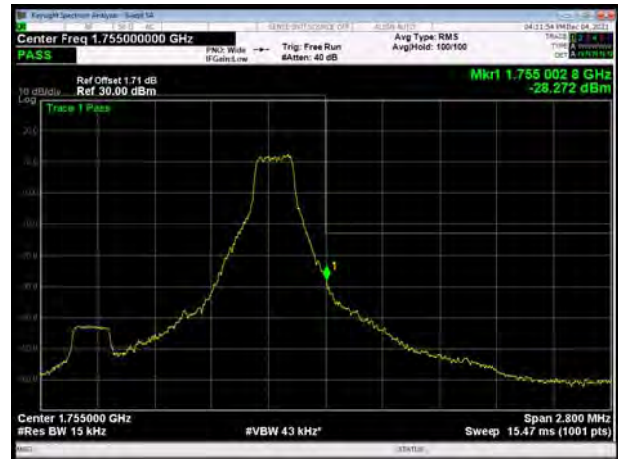




LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



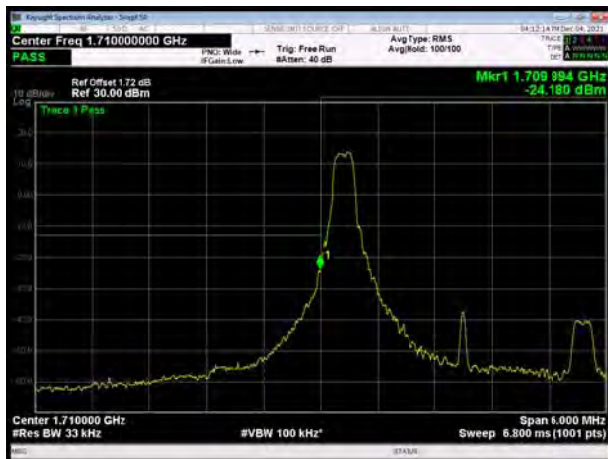
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



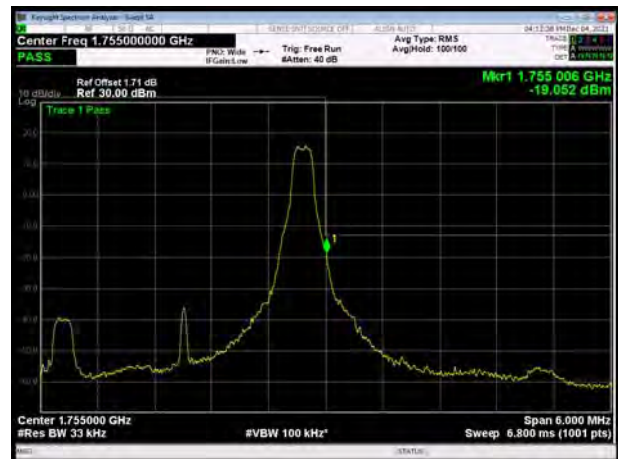
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



LTE Band 4 16QAM 3MHz CH-Low, 1 RB



LTE Band 4 16QAM 3MHz CH-High, 1 RB







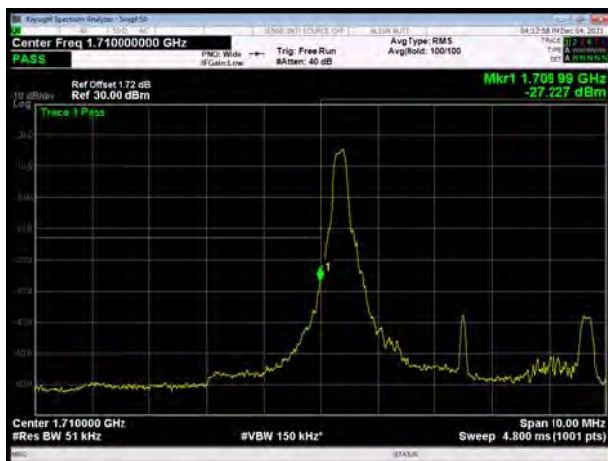
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



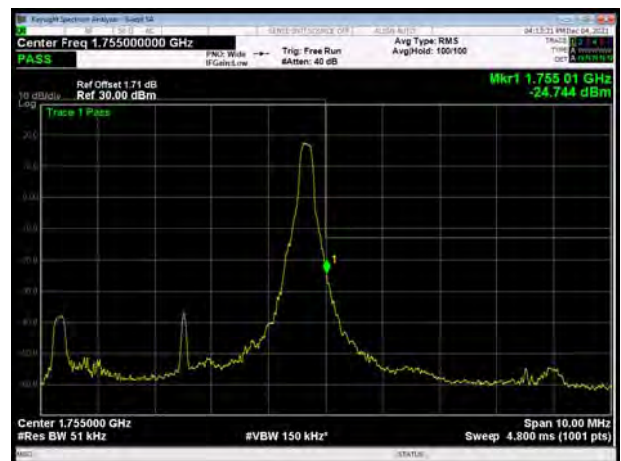
LTE Band 4 16QAM 3MHz CH-High, 100%RB



LTE Band 4 16QAM 5MHz CH-Low, 1 RB



LTE Band 4 16QAM 5MHz CH-High, 1 RB



LTE Band 4 16QAM 5MHz CH-Low, 100%RB

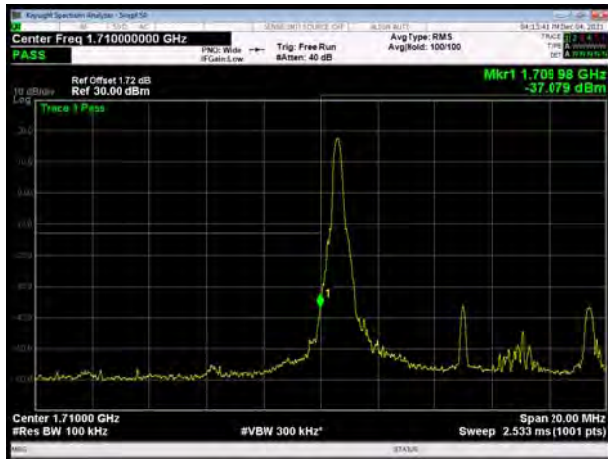


LTE Band 4 16QAM 5MHz CH-High, 100%RB

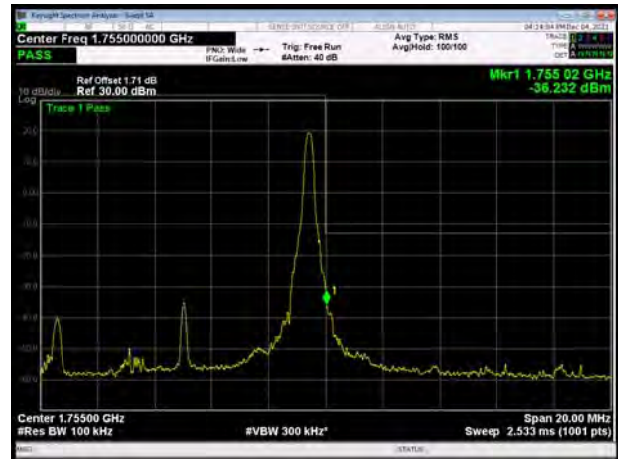




LTE Band 4 16QAM 10MHz CH-Low, 1 RB



LTE Band 4 16QAM 10MHz CH-High, 1 RB



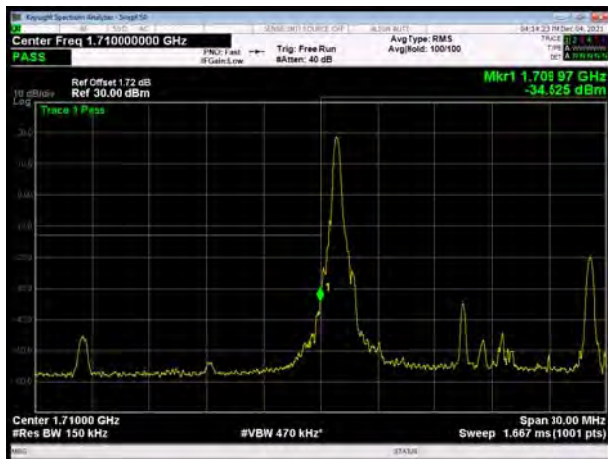
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



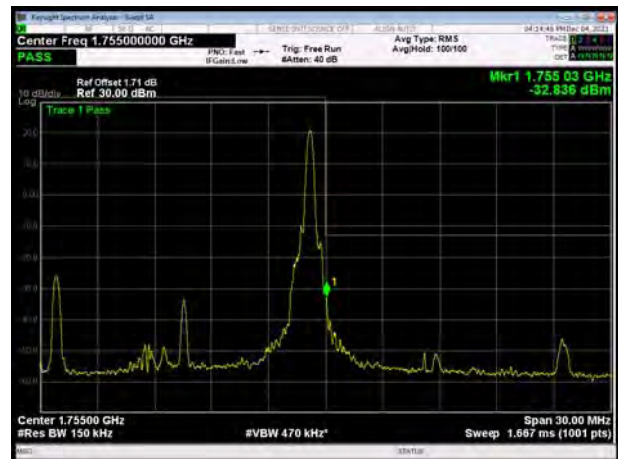
LTE Band 4 16QAM 10MHz CH-High, 100%RB



LTE Band 4 16QAM 15MHz CH-Low, 1 RB



LTE Band 4 16QAM 15MHz CH-High, 1 RB





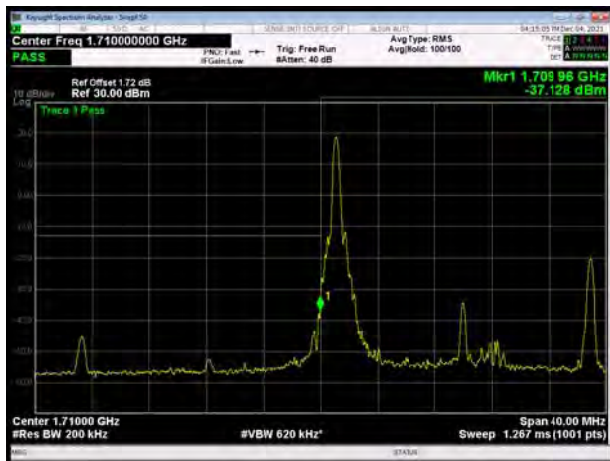
LTE Band 4 16QAM 15MHz CH-Low, 100%RB



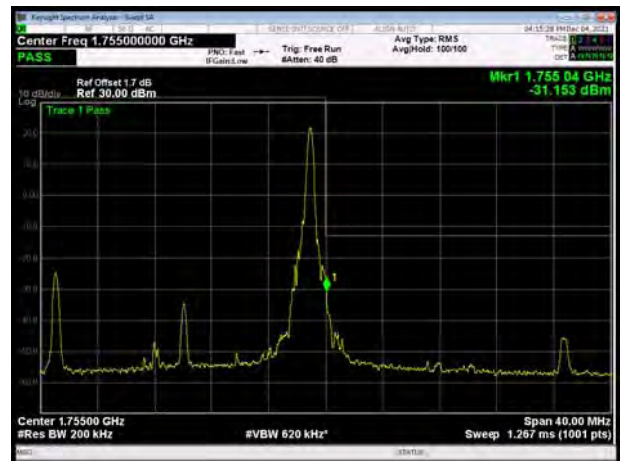
LTE Band 4 16QAM 15MHz CH-High, 100%RB



LTE Band 4 16QAM 20MHz CH-Low, 1 RB



LTE Band 4 16QAM 20MHz CH-High, 1 RB



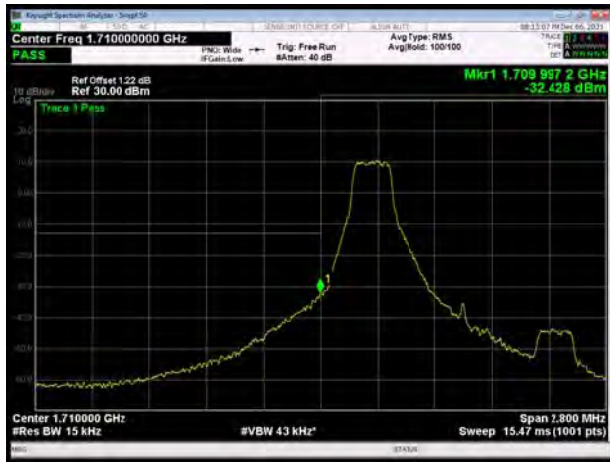
LTE Band 4 16QAM 20MHz CH-Low, 100%RB



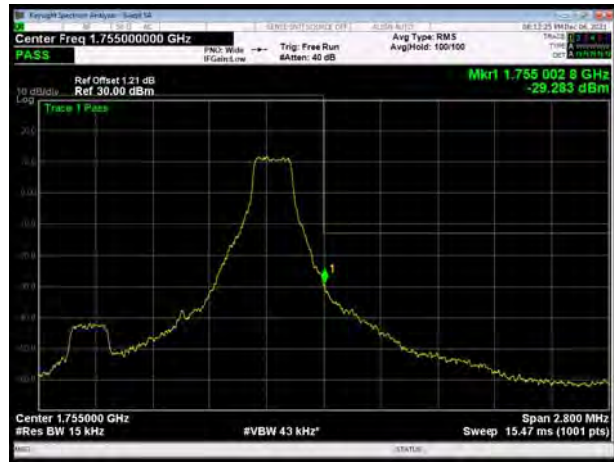
LTE Band 4 16QAM 20MHz CH-High, 100%RB



LTE Band 4 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 64QAM 1.4MHz CH-High, 1 RB



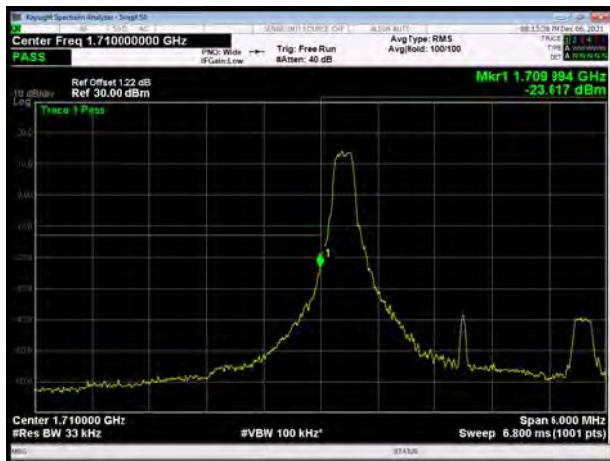
LTE Band 4 64QAM 1.4MHz CH-Low, 100%RB



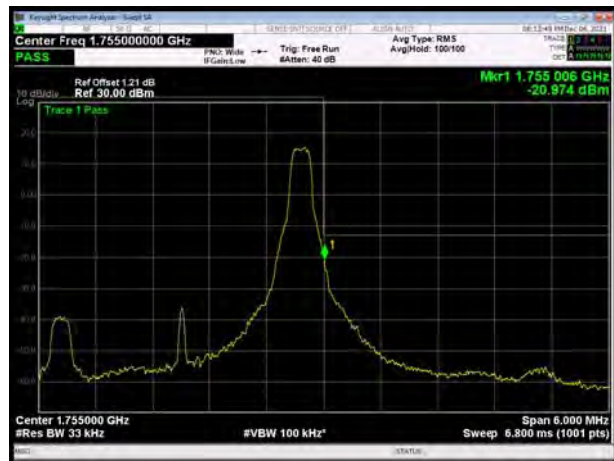
LTE Band 4 64QAM 1.4MHz CH-High, 100%RB



LTE Band 4 64QAM 3MHz CH-Low, 1 RB

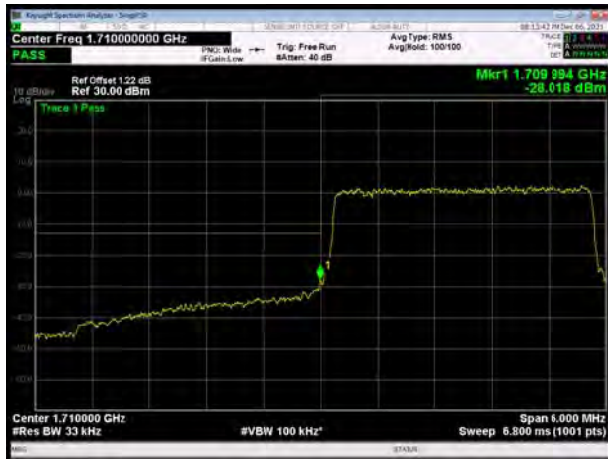


LTE Band 4 64QAM 3MHz CH-High, 1 RB





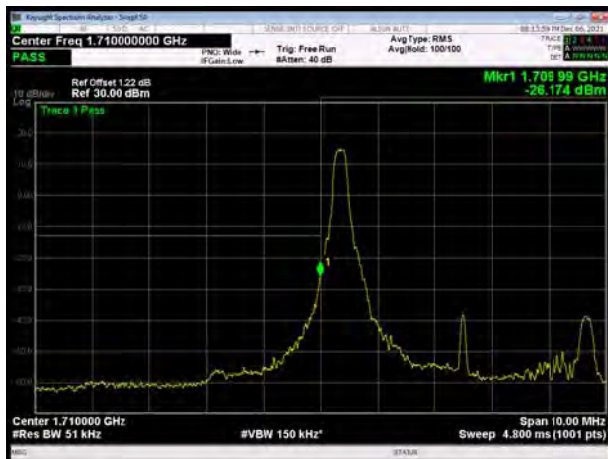
LTE Band 4 64QAM 3MHz CH-Low, 100%RB



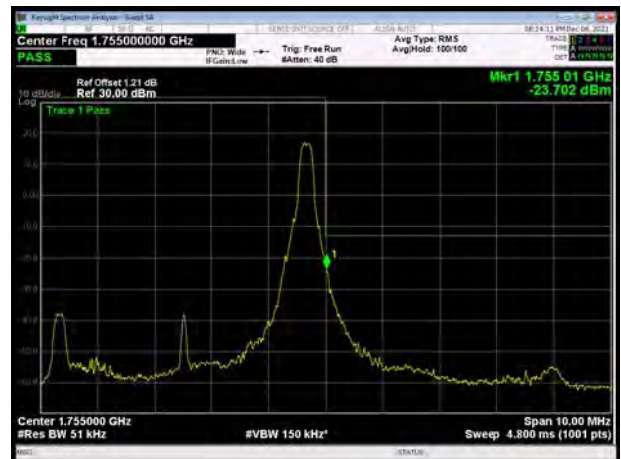
LTE Band 4 64QAM 3MHz CH-High, 100%RB



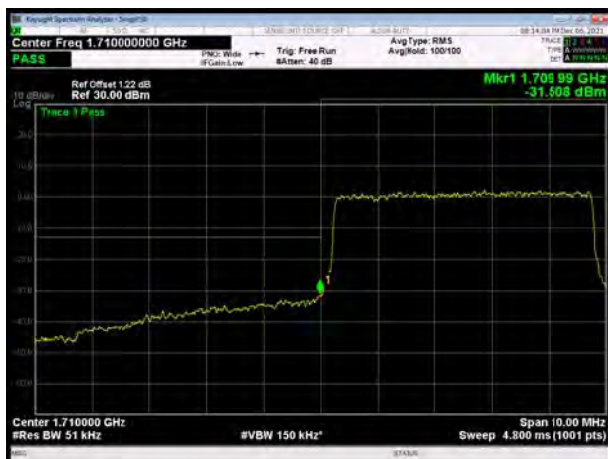
LTE Band 4 64QAM 5MHz CH-Low, 1 RB



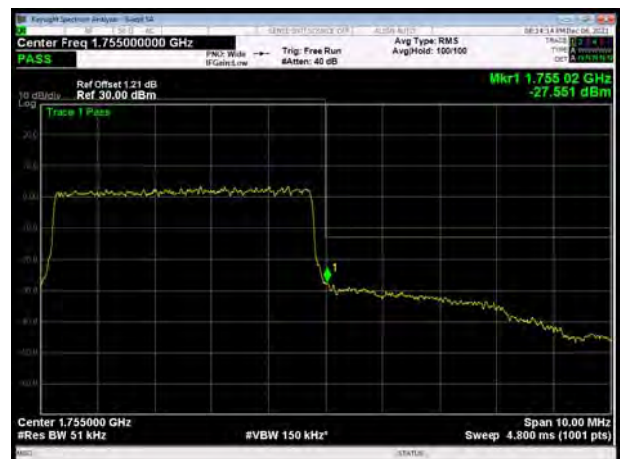
LTE Band 4 64QAM 5MHz CH-High, 1 RB



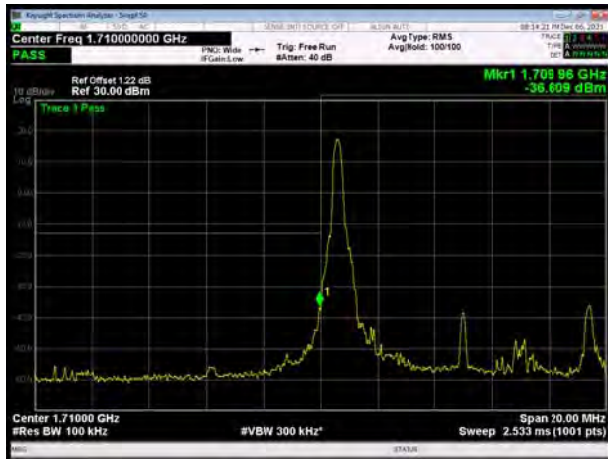
LTE Band 4 64QAM 5MHz CH-Low, 100%RB



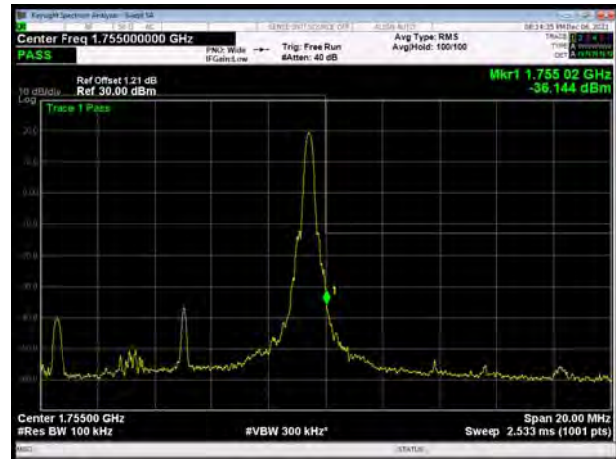
LTE Band 4 64QAM 5MHz CH-High, 100%RB



LTE Band 4 64QAM 10MHz CH-Low, 1 RB



LTE Band 4 64QAM 10MHz CH-High, 1 RB



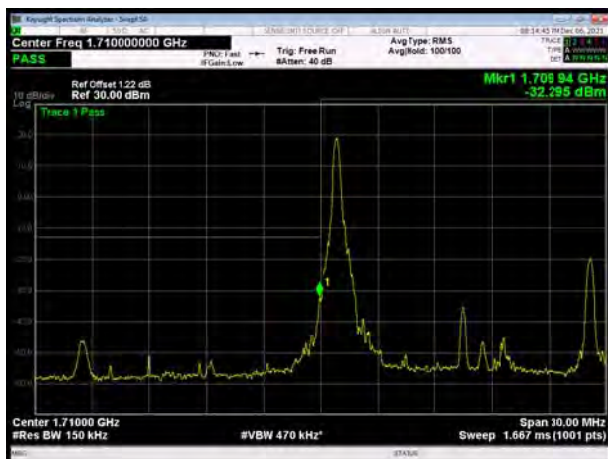
LTE Band 4 64QAM 10MHz CH-Low, 100%RB



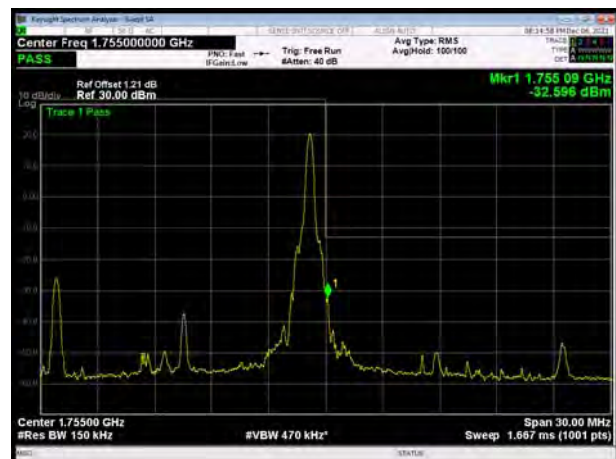
LTE Band 4 64QAM 10MHz CH-High, 100%RB



LTE Band 4 64QAM 15MHz CH-Low, 1 RB



LTE Band 4 64QAM 15MHz CH-High, 1 RB

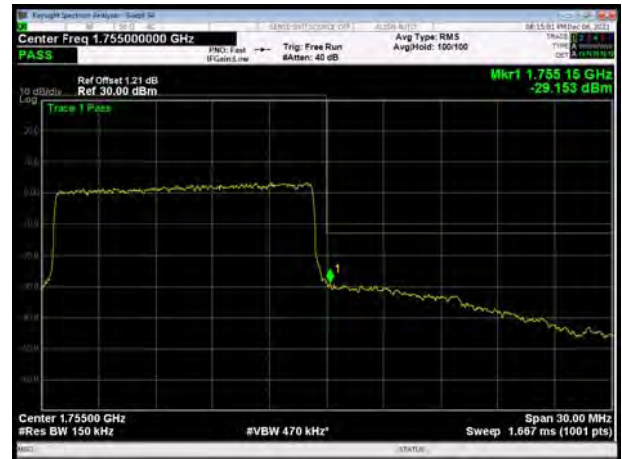




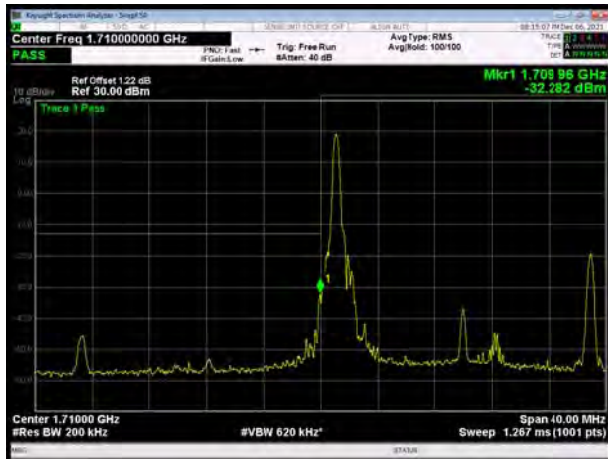
LTE Band 4 64QAM 15MHz CH-Low, 100%RB



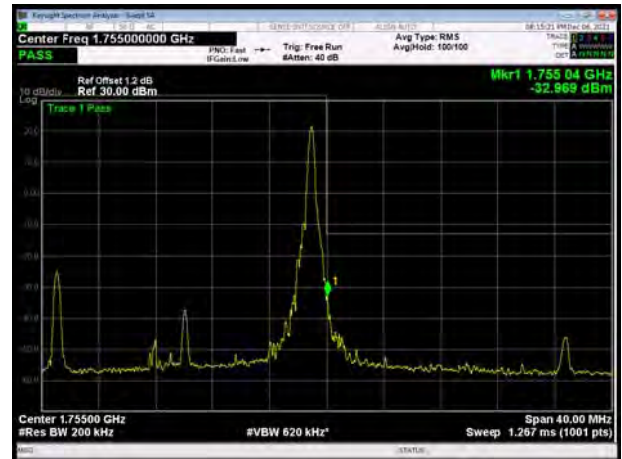
LTE Band 4 64QAM 15MHz CH-High, 100%RB



LTE Band 4 64QAM 20MHz CH-Low, 1 RB



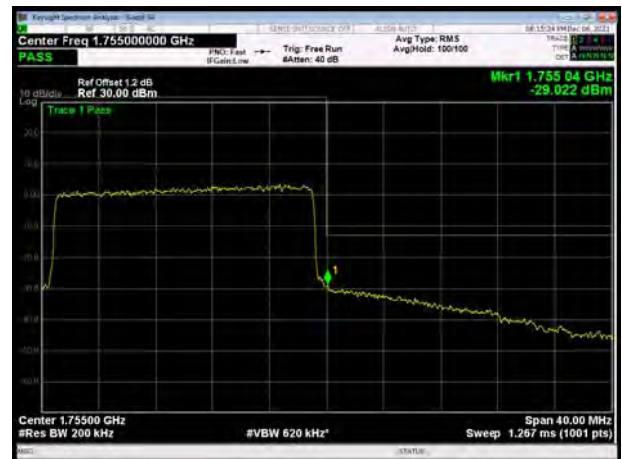
LTE Band 4 64QAM 20MHz CH-High, 1 RB



LTE Band 4 64QAM 20MHz CH-Low, 100%RB

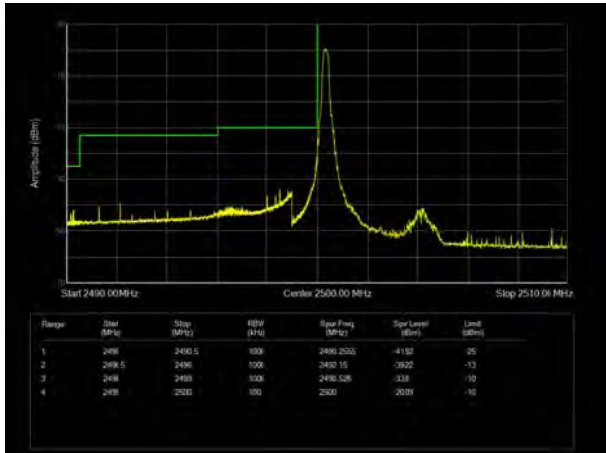


LTE Band 4 64QAM 20MHz CH-High, 100%RB

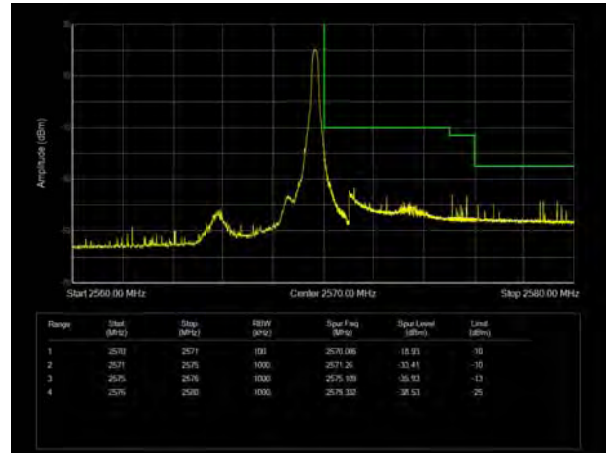




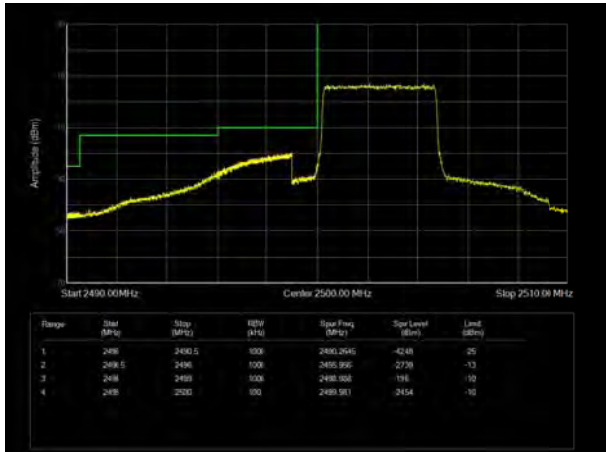
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



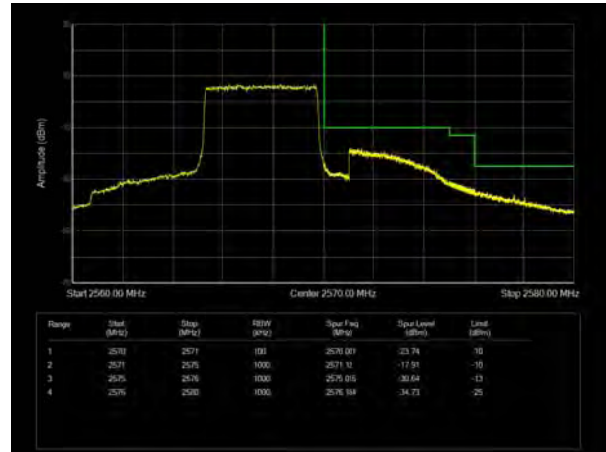
LTE Band 7 QPSK 5MHz CH-High, 1 RB



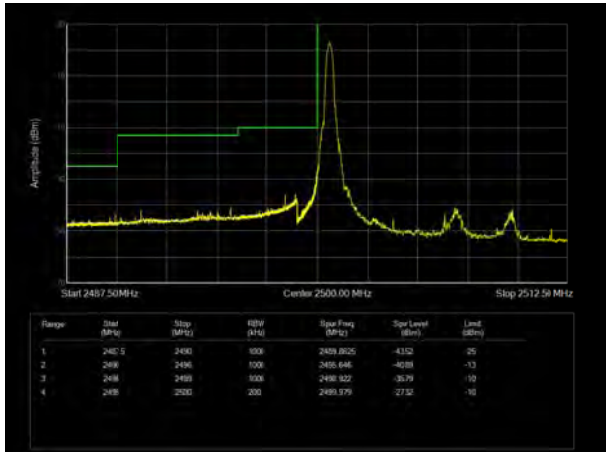
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



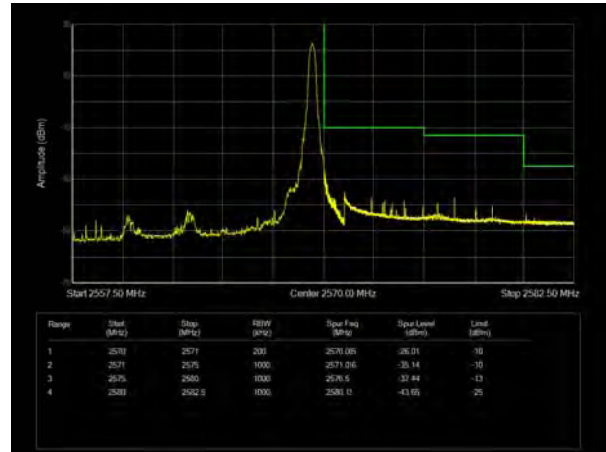
LTE Band 7 QPSK 5MHz CH-High, 100%RB



LTE Band 7 QPSK 10MHz CH-Low, 1 RB



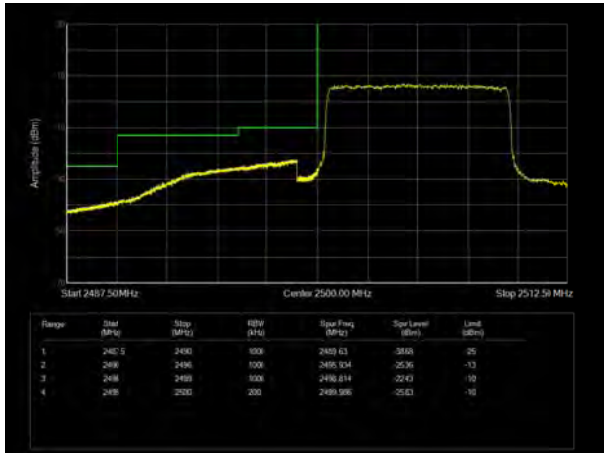
LTE Band 7 QPSK 10MHz CH-High, 1 RB



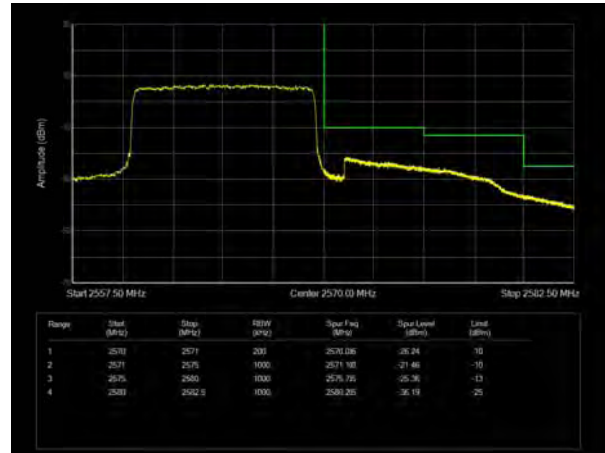




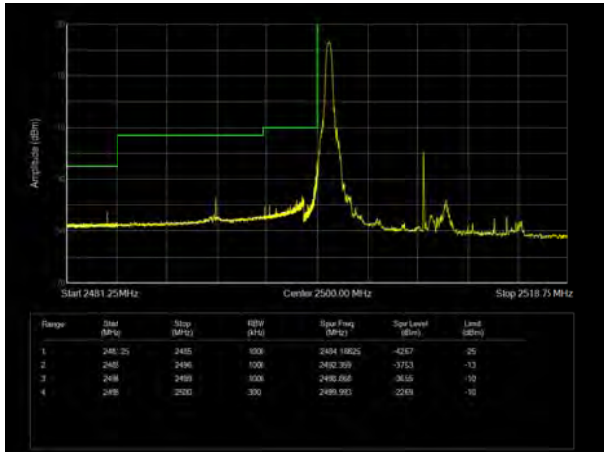
LTE Band 7 QPSK 10MHz CH-Low, 100%RB



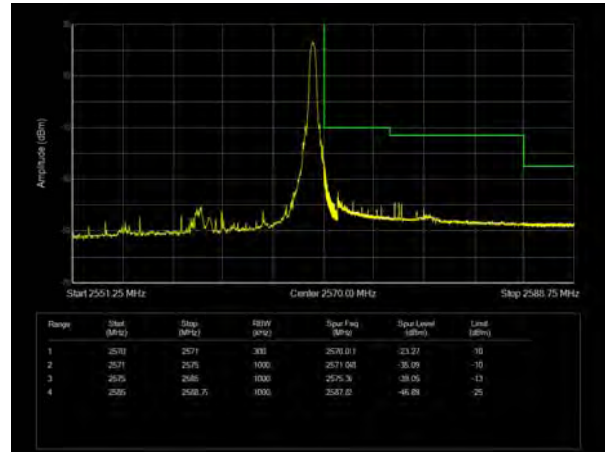
LTE Band 7 QPSK 10MHz CH-High, 100%RB



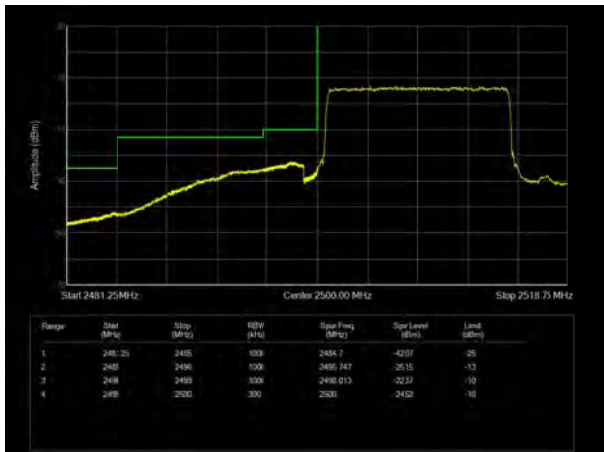
LTE Band 7 QPSK 15MHz CH-Low, 1 RB



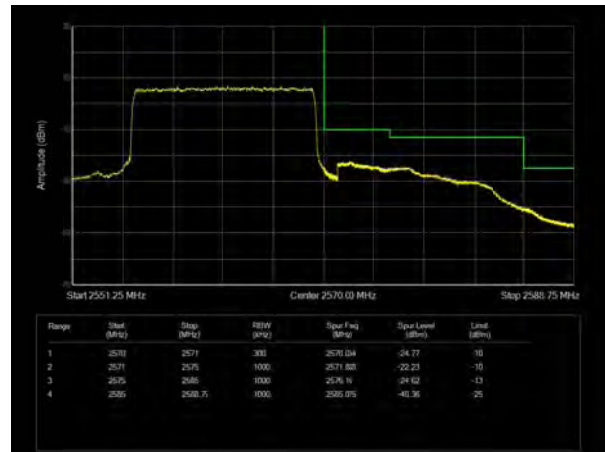
LTE Band 7 QPSK 15MHz CH-High, 1 RB



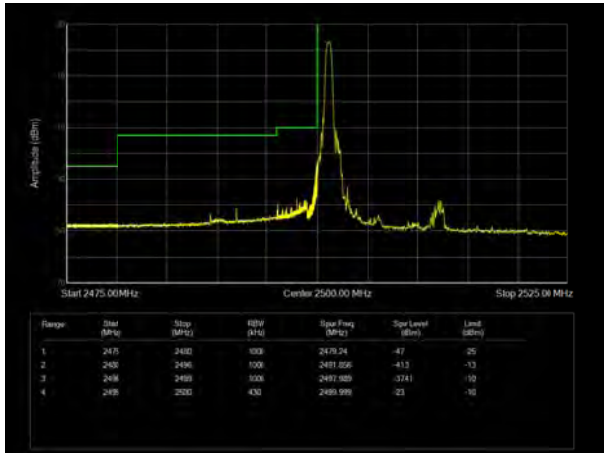
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



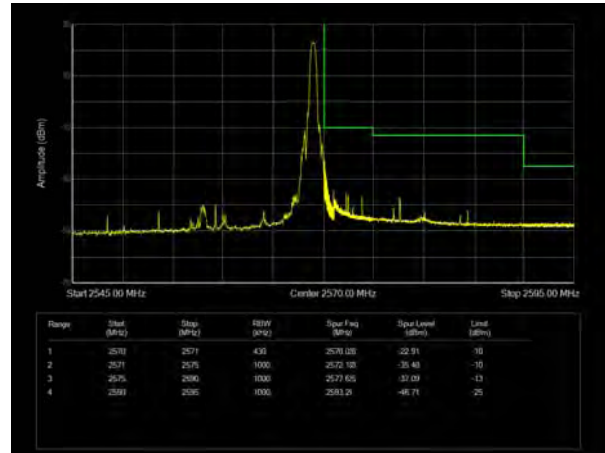
LTE Band 7 QPSK 15MHz CH-High, 100%RB



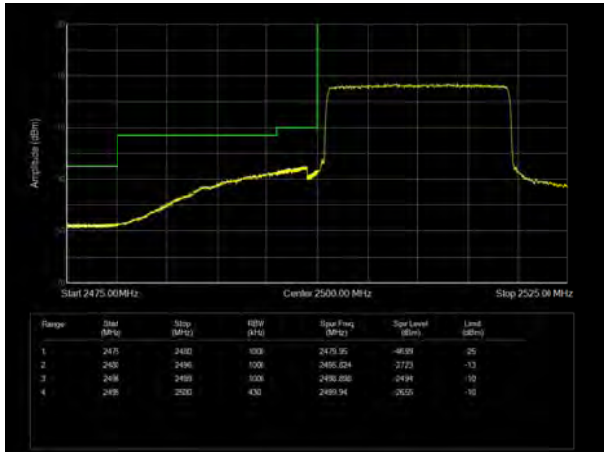
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



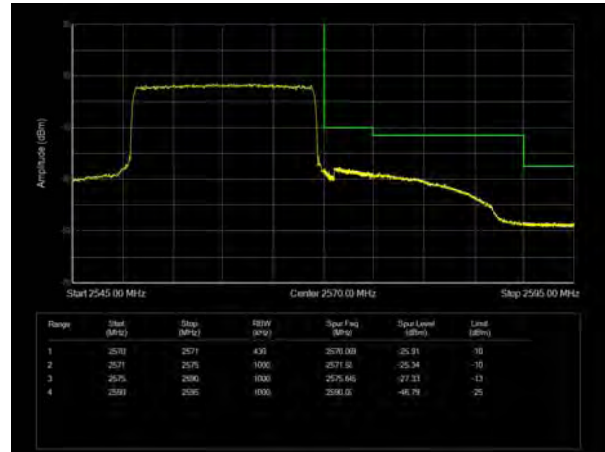
LTE Band 7 QPSK 20MHz CH-High, 1 RB



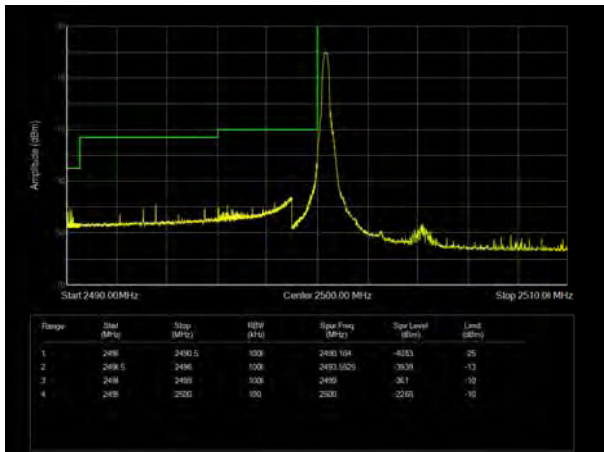
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



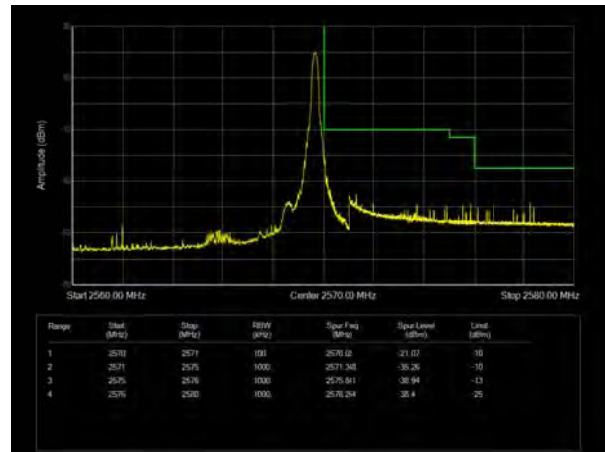
LTE Band 7 QPSK 20MHz CH-High, 100%RB



LTE Band 7 16QAM 5MHz CH-Low, 1 RB

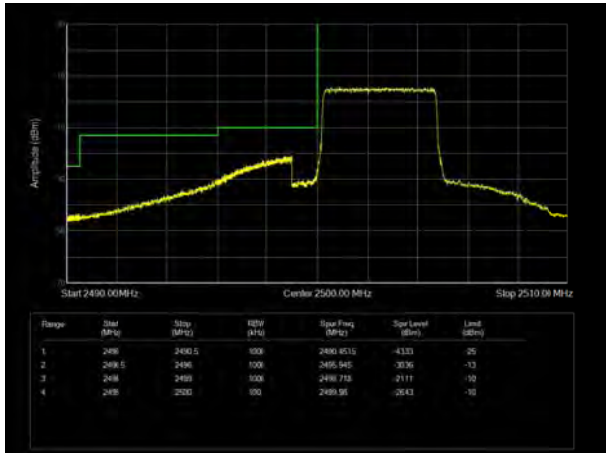


LTE Band 7 16QAM 5MHz CH-High, 1 RB

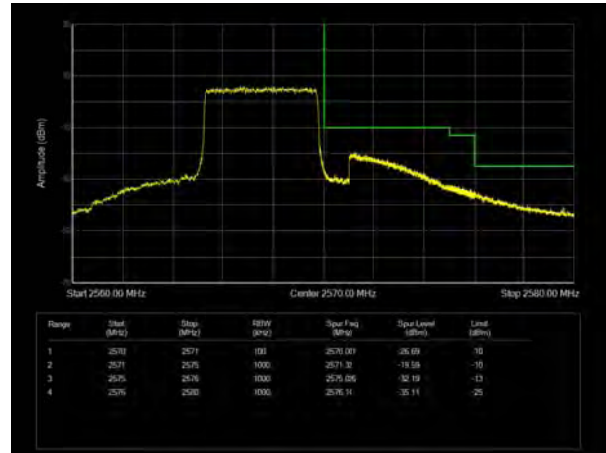




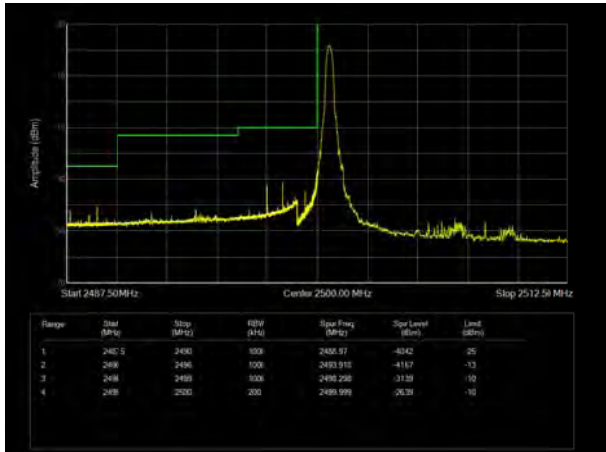
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



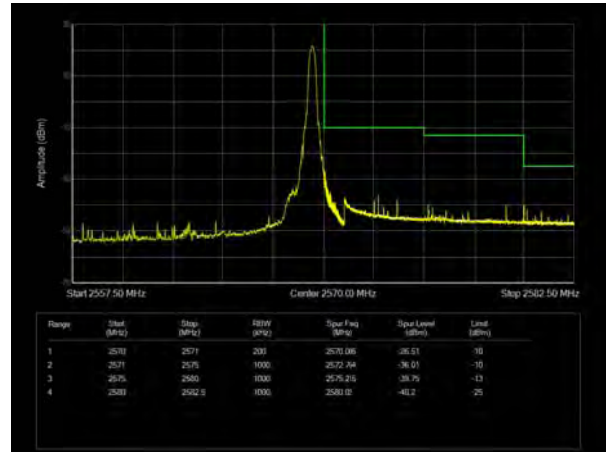
LTE Band 7 16QAM 5MHz CH-High, 100%RB



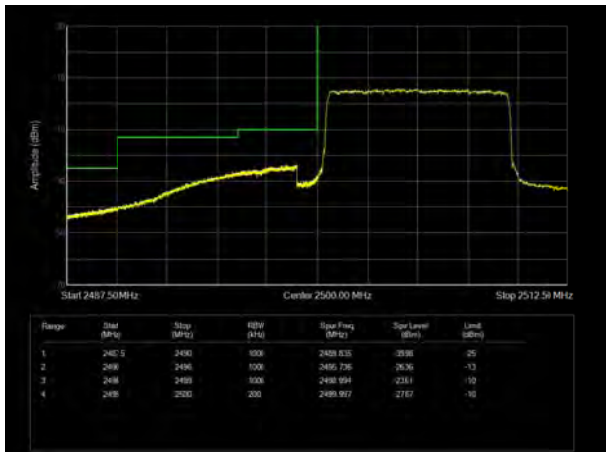
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



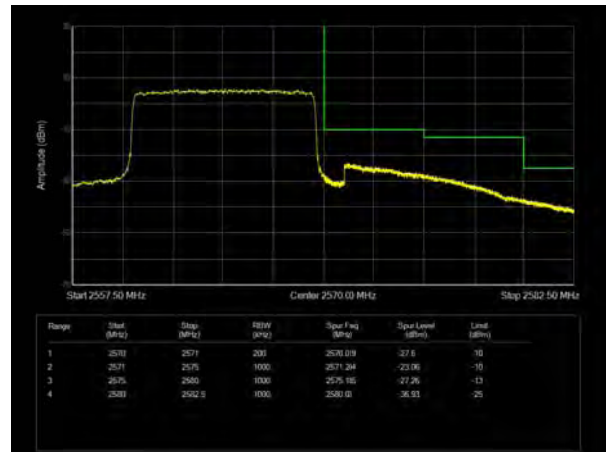
LTE Band 7 16QAM 10MHz CH-High, 1 RB



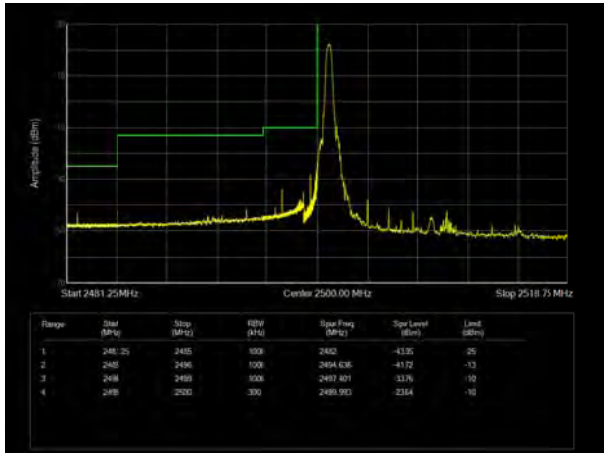
LTE Band 7 16QAM 10MHz CH-Low, 100%RB



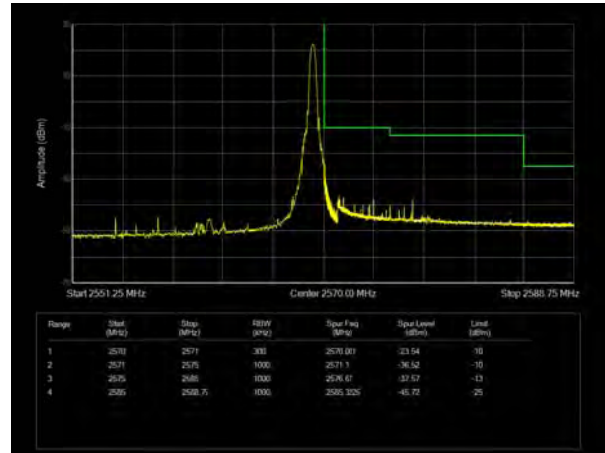
LTE Band 7 16QAM 10MHz CH-High, 100%RB



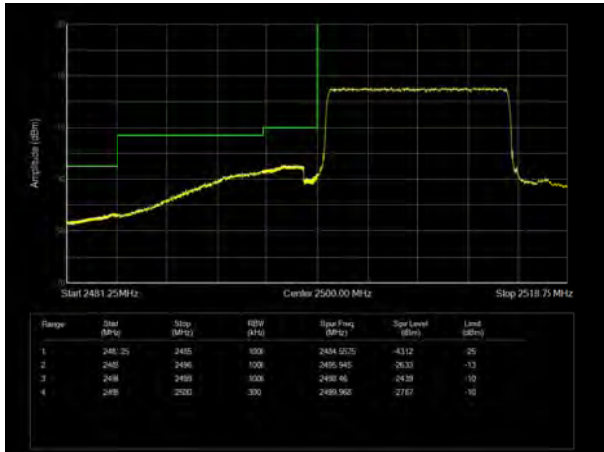
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



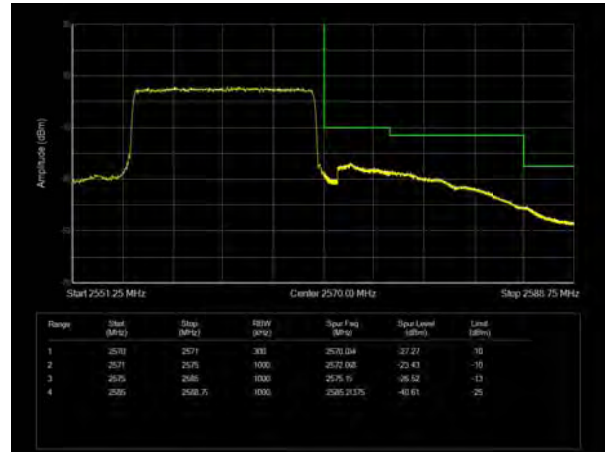
LTE Band 7 16QAM 15MHz CH-High, 1 RB



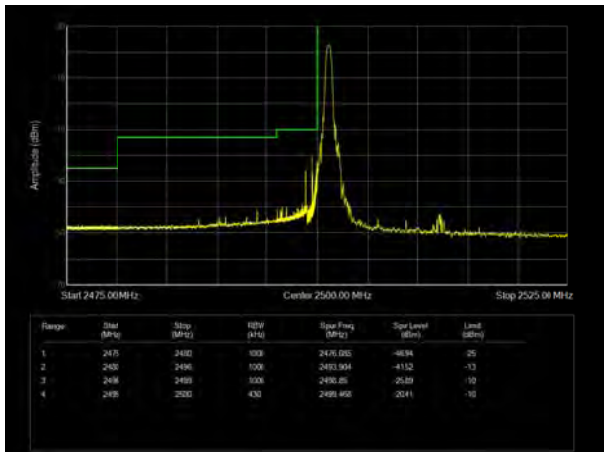
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



LTE Band 7 16QAM 15MHz CH-High, 100%RB



LTE Band 7 16QAM 20MHz CH-Low, 1 RB



LTE Band 7 16QAM 20MHz CH-High, 1 RB

