



RF TEST REPORT

Applicant Xiaomi Communications Co., Ltd.
FCC ID 2AFZZ3QAG
Product Mobile Phone
Brand Redmi
Model 220333QAG
Report No. R2111A1052-R3
Issue Date January 6, 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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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 16, 2021 ~ December 19, 2021

Date of Sample Received: December 9, 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.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Xiaomi Communications Co., Ltd.
Applicant address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer	Xiaomi Communications Co., Ltd.
Manufacturer address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 General information

EUT Description			
Model	220333QAG		
IMEI	IMEI 1: 864763060073200 IMEI 2: 864763060073218		
Hardware Version	P1.1		
Software Version	MIUI13		
Antenna Type	PIFA Antenna		
Antenna Gain	Band	Low Antenna	Upper Antenna
	WCDMA Band IV	0.180 dBi	0.800 dBi
	LTE Band 4	0.200 dBi	-0.040 dBi
	LTE Band 7	0.900 dBi	0.370 dBi
	LTE Band 38	1.000 dBi	0.780 dBi
	LTE Band 41	0.009 dBi	0.710 dBi
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/41;		
Test Modulation	(WCDMA) BPSK, QPSK; (LTE)QPSK, 16QAM, 64QAM;		
HSDPA UE Category	24		
HSUPA UE Category	6		
LTE Category	5		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	24.70 dBm	
	LTE Band 4:	24.39 dBm	
	LTE Band 7:	23.71 dBm	
	LTE Band 38:	24.44 dBm	
	LTE Band 41:	23.50 dBm	
Rated Power Supply Voltage	3.87V		
Operating Voltage	Minimum: 3.6V Maximum: 4.2V		
Operating Temperature	Lowest: 0°C Highest: +40°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 41	2535 ~ 2655	2535 ~ 2655
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

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

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; Z axis, horizontal polarization, Upper Antenna; X axis, vertical polarization, Low Antenna) 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
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 4/7/38/41:

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
	LTE 7	-	-	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
	LTE 41	-	-	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
	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 41	-	-	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
	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 41	-	-	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 41	-	-	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 41	-	-	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 41	-	-	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	-
	LTE 41	-	-	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.

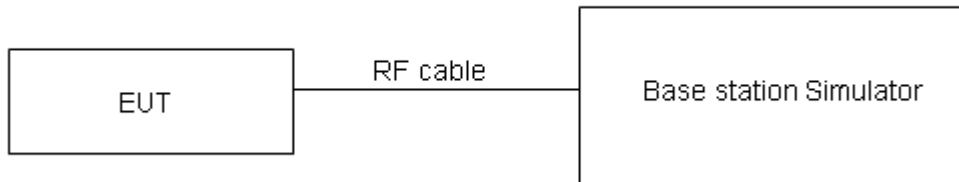
ERP can then be calculated as follows:

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

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)			Low Antenna EIRP (dBm)			Upper Antenna EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	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)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		24.34	24.50	24.18	24.54	24.70	24.38	24.30	24.46	24.14
HSDPA	Sub - Test 1	23.76	23.92	23.60	23.96	24.12	23.80	23.72	23.88	23.56
	Sub - Test 2	23.75	23.91	23.59	23.95	24.11	23.79	23.71	23.87	23.55
	Sub - Test 3	23.24	23.40	23.08	23.44	23.60	23.28	23.20	23.36	23.04
	Sub - Test 4	23.23	23.39	23.07	23.43	23.59	23.27	23.19	23.35	23.03
HSUPA	Sub - Test 1	22.72	22.88	22.56	22.92	23.08	22.76	22.68	22.84	22.52
	Sub - Test 2	20.71	20.87	20.55	20.91	21.07	20.75	20.67	20.83	20.51
	Sub - Test 3	21.69	21.86	21.54	21.89	22.06	21.74	21.65	21.82	21.50
	Sub - Test 4	20.68	20.85	20.53	20.88	21.05	20.73	20.64	20.81	20.49
	Sub - Test 5	24.17	24.34	24.02	24.37	24.54	24.22	24.13	24.30	23.98
DC-HSDPA	Sub - Test 1	23.68	23.86	23.52	23.88	24.06	23.72	23.64	23.82	23.48
	Sub - Test 2	23.67	23.85	23.51	23.87	24.05	23.71	23.63	23.81	23.47
	Sub - Test 3	23.25	23.34	23.02	23.45	23.54	23.22	23.21	23.30	22.98
	Sub - Test 4	23.24	23.33	23.01	23.44	23.53	23.21	23.20	23.29	22.97



LTE Band 4				Maximum Output Power(dBm)			Low Antenna EIRP (dBm)			Upper Antenna EIRP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	23.77	23.74	24.00	23.97	23.94	24.20	23.73	23.70	23.96
		1	2	23.96	24.04	24.14	24.16	24.24	24.34	23.92	24.00	24.10
		1	5	23.55	23.36	23.51	23.75	23.56	23.71	23.51	23.32	23.47
		3	0	23.11	23.30	23.40	23.31	23.50	23.60	23.07	23.26	23.36
		3	2	23.36	23.51	23.43	23.56	23.71	23.63	23.32	23.47	23.39
		3	3	23.32	23.34	23.26	23.52	23.54	23.46	23.28	23.30	23.22
		6	0	22.30	22.39	22.44	22.50	22.59	22.64	22.26	22.35	22.40
	16QAM	1	0	22.69	22.27	22.49	22.89	22.47	22.69	22.65	22.23	22.45
		1	2	22.67	22.67	22.50	22.87	22.87	22.70	22.63	22.63	22.46
		1	5	22.36	22.22	22.35	22.56	22.42	22.55	22.32	22.18	22.31
		3	0	22.38	22.38	22.58	22.58	22.58	22.78	22.34	22.34	22.54
		3	2	22.50	22.48	22.49	22.70	22.68	22.69	22.46	22.44	22.45
		3	3	22.45	22.35	22.19	22.65	22.55	22.39	22.41	22.31	22.15
		6	0	21.37	21.35	21.55	21.57	21.55	21.75	21.33	21.31	21.51
	64QAM	1	0	21.72	21.62	21.93	21.92	21.82	22.13	21.68	21.58	21.89
		1	2	22.36	22.51	22.12	22.56	22.71	22.32	22.32	22.47	22.08
		1	5	21.82	21.75	21.58	22.02	21.95	21.78	21.78	21.71	21.54
		3	0	21.45	21.29	21.61	21.65	21.49	21.81	21.41	21.25	21.57
		3	2	21.40	21.32	21.47	21.60	21.52	21.67	21.36	21.28	21.43
		3	3	21.28	21.33	21.22	21.48	21.53	21.42	21.24	21.29	21.18
		6	0	20.31	20.47	20.42	20.51	20.67	20.62	20.27	20.43	20.38
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19965/1711.5	20175/1732.5	20385/1753.5	19965/1711.5	20175/1732.5	20385/1753.5	19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.79	23.78	24.03	23.99	23.98	24.23	23.75	23.74	23.99
		1	7	23.94	24.07	24.18	24.14	24.27	24.38	23.90	24.03	24.14
		1	14	23.58	23.41	23.55	23.78	23.61	23.75	23.54	23.37	23.51
		8	0	22.21	22.42	22.53	22.41	22.62	22.73	22.17	22.38	22.49
		8	4	22.48	22.61	22.55	22.68	22.81	22.75	22.44	22.57	22.51
		8	7	22.42	22.45	22.36	22.62	22.65	22.56	22.38	22.41	22.32
		15	0	22.30	22.43	22.47	22.50	22.63	22.67	22.26	22.39	22.43



	16QAM	1	0	22.72	22.29	22.52	22.92	22.49	22.72	22.68	22.25	22.48
		1	7	22.70	22.67	22.54	22.90	22.87	22.74	22.66	22.63	22.50
		1	14	22.38	22.26	22.38	22.58	22.46	22.58	22.34	22.22	22.34
		8	0	21.49	21.51	21.70	21.69	21.71	21.90	21.45	21.47	21.66
		8	4	21.61	21.61	21.61	21.81	21.81	21.81	21.57	21.57	21.57
		8	7	21.55	21.47	21.32	21.75	21.67	21.52	21.51	21.43	21.28
		15	0	21.40	21.39	21.58	21.60	21.59	21.78	21.36	21.35	21.54
	64QAM	1	0	21.75	21.64	21.96	21.95	21.84	22.16	21.71	21.60	21.92
		1	7	22.39	22.51	22.14	22.59	22.71	22.34	22.35	22.47	22.10
		1	14	21.84	21.74	21.61	22.04	21.94	21.81	21.80	21.70	21.57
		8	0	20.56	20.42	20.73	20.76	20.62	20.93	20.52	20.38	20.69
		8	4	20.51	20.45	20.59	20.71	20.65	20.79	20.47	20.41	20.55
		8	7	20.38	20.45	20.35	20.58	20.65	20.55	20.34	20.41	20.31
		15	0	20.34	20.51	20.45	20.54	20.71	20.65	20.30	20.47	20.41
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19975/ 1712.5	20175/ 1732.5	20375/ 1752.5	19975/ 1712.5	20175/ 1732.5	20375/ 1752.5	19975/ 1712.5	20175/ 1732.5	20375/ 1752.5
5MHz	QPSK	1	0	23.76	23.76	23.99	23.96	23.96	24.19	23.72	23.72	23.95
		1	13	23.92	24.03	24.15	24.12	24.23	24.35	23.88	23.99	24.11
		1	24	23.55	23.36	23.51	23.75	23.56	23.71	23.51	23.32	23.47
		12	0	22.18	22.37	22.49	22.38	22.57	22.69	22.14	22.33	22.45
		12	6	22.46	22.57	22.50	22.66	22.77	22.70	22.42	22.53	22.46
		12	13	22.40	22.43	22.32	22.60	22.63	22.52	22.36	22.39	22.28
		25	0	22.30	22.42	22.45	22.50	22.62	22.65	22.26	22.38	22.41
	16QAM	1	0	22.69	22.25	22.49	22.89	22.45	22.69	22.65	22.21	22.45
		1	13	22.67	22.65	22.51	22.87	22.85	22.71	22.63	22.61	22.47
		1	24	22.35	22.24	22.34	22.55	22.44	22.54	22.31	22.20	22.30
		12	0	21.47	21.47	21.67	21.67	21.67	21.87	21.43	21.43	21.63
		12	6	21.58	21.56	21.57	21.78	21.76	21.77	21.54	21.52	21.53
		12	13	21.52	21.42	21.28	21.72	21.62	21.48	21.48	21.38	21.24
		25	0	21.38	21.35	21.53	21.58	21.55	21.73	21.34	21.31	21.49
	64QAM	1	0	21.72	21.64	21.93	21.92	21.84	22.13	21.68	21.60	21.89
		1	13	22.36	22.53	22.11	22.56	22.73	22.31	22.32	22.49	22.07
		1	24	21.85	21.72	21.57	22.05	21.92	21.77	21.81	21.68	21.53
		12	0	20.54	20.38	20.74	20.74	20.58	20.94	20.50	20.34	20.70
		12	6	20.48	20.40	20.55	20.68	20.60	20.75	20.44	20.36	20.51
		12	13	20.35	20.40	20.31	20.55	20.60	20.51	20.31	20.36	20.27



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20000/1715	20175/1732.5	20350/1750	20000/1715	20175/1732.5	20350/1750	20000/1715	20175/1732.5	20350/1750
				25	0	20.32	20.47	20.40	20.52	20.67	20.60	20.28
10MHz	QPSK	1	0	23.78	23.77	24.02	23.98	23.97	24.22	23.74	23.73	23.98
		1	25	23.95	24.08	24.19	24.15	24.28	24.39	23.91	24.04	24.15
		1	49	23.57	23.40	23.54	23.77	23.60	23.74	23.53	23.36	23.50
		25	0	22.21	22.42	22.53	22.41	22.62	22.73	22.17	22.38	22.49
		25	13	22.49	22.62	22.54	22.69	22.82	22.74	22.45	22.58	22.50
		25	25	22.42	22.47	22.37	22.62	22.67	22.57	22.38	22.43	22.33
		50	0	22.34	22.44	22.49	22.54	22.64	22.69	22.30	22.40	22.45
	16QAM	1	0	22.71	22.28	22.51	22.91	22.48	22.71	22.67	22.24	22.47
		1	25	22.70	22.69	22.54	22.90	22.89	22.74	22.66	22.65	22.50
		1	49	22.38	22.26	22.37	22.58	22.46	22.57	22.34	22.22	22.33
		25	0	21.50	21.52	21.71	21.70	21.72	21.91	21.46	21.48	21.67
		25	13	21.60	21.60	21.60	21.80	21.80	21.80	21.56	21.56	21.56
		25	25	21.55	21.47	21.32	21.75	21.67	21.52	21.51	21.43	21.28
		50	0	21.41	21.40	21.57	21.61	21.60	21.77	21.37	21.36	21.53
	64QAM	1	0	21.74	21.63	21.95	21.94	21.83	22.15	21.70	21.59	21.91
		1	25	22.39	22.53	22.14	22.59	22.73	22.34	22.35	22.49	22.10
		1	49	21.84	21.74	21.60	22.04	21.94	21.80	21.80	21.70	21.56
		25	0	20.57	20.43	20.74	20.77	20.63	20.94	20.53	20.39	20.70
		25	13	20.50	20.44	20.58	20.70	20.64	20.78	20.46	20.40	20.54
		25	25	20.38	20.45	20.35	20.58	20.65	20.55	20.34	20.41	20.31
		50	0	20.35	20.52	20.44	20.55	20.72	20.64	20.31	20.48	20.40
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20025/1717.5	20175/1732.5	20325/1747.5	20025/1717.5	20175/1732.5	20325/1747.5	20025/1717.5	20175/1732.5	20325/1747.5
				25	0	23.77	23.73	24.00	23.97	23.93	24.20	23.73
15MHz	QPSK	1	38	23.93	24.07	24.16	24.13	24.27	24.36	23.89	24.03	24.12
		1	74	23.54	23.35	23.50	23.74	23.55	23.70	23.50	23.31	23.46
		36	0	22.19	22.38	22.50	22.39	22.58	22.70	22.15	22.34	22.46
		36	18	22.46	22.57	22.50	22.66	22.77	22.70	22.42	22.53	22.46
		36	39	22.39	22.44	22.33	22.59	22.64	22.53	22.35	22.40	22.29
		75	0	22.32	22.40	22.44	22.52	22.60	22.64	22.28	22.36	22.40
		16QAM	1	0	22.66	22.26	22.49	22.86	22.46	22.69	22.62	22.22
	1		38	22.68	22.66	22.52	22.88	22.86	22.72	22.64	22.62	22.48



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)									
				20050/1720	20175/1732.5	20300/1745	20050/1720	20175/1732.5	20300/1745	20050/1720	20175/1732.5	20300/1745	
		1	74	22.35	22.22	22.34	22.55	22.42	22.54	22.31	22.18	22.30	
		36	0	21.47	21.50	21.68	21.67	21.70	21.88	21.43	21.46	21.64	
		36	18	21.57	21.55	21.56	21.77	21.75	21.76	21.53	21.51	21.52	
		36	39	21.53	21.43	21.29	21.73	21.63	21.49	21.49	21.39	21.25	
		75	0	21.38	21.35	21.53	21.58	21.55	21.73	21.34	21.31	21.49	
	64QAM	1	0	21.69	21.61	21.93	21.89	21.81	22.13	21.65	21.57	21.89	
		1	38	22.37	22.50	22.12	22.57	22.70	22.32	22.33	22.46	22.08	
		1	74	21.85	21.73	21.61	22.05	21.93	21.81	21.81	21.69	21.57	
		36	0	20.56	20.45	20.75	20.76	20.65	20.95	20.52	20.41	20.71	
		36	18	20.48	20.41	20.57	20.68	20.61	20.77	20.44	20.37	20.53	
		36	39	20.36	20.41	20.32	20.56	20.61	20.52	20.32	20.37	20.28	
		75	0	20.32	20.47	20.40	20.52	20.67	20.60	20.28	20.43	20.36	
	20MHz	QPSK	1	0	23.74	23.69	23.97	23.94	23.89	24.17	23.70	23.65	23.93
			1	50	23.92	24.03	24.14	24.12	24.23	24.34	23.88	23.99	24.10
1			99	23.52	23.34	23.47	23.72	23.54	23.67	23.48	23.30	23.43	
50			0	22.16	22.33	22.46	22.36	22.53	22.66	22.12	22.29	22.42	
50			25	22.44	22.53	22.47	22.64	22.73	22.67	22.40	22.49	22.43	
50			50	22.36	22.39	22.29	22.56	22.59	22.49	22.32	22.35	22.25	
100			0	22.29	22.35	22.40	22.49	22.55	22.60	22.25	22.31	22.36	
16QAM		1	0	22.16	22.22	22.44	22.36	22.42	22.64	22.12	22.18	22.40	
		1	50	22.64	22.64	22.48	22.84	22.84	22.68	22.60	22.60	22.44	
		1	99	22.33	22.19	22.32	22.53	22.39	22.52	22.29	22.15	22.28	
		50	0	21.44	21.46	21.65	21.64	21.66	21.85	21.40	21.42	21.61	
		50	25	21.54	21.53	21.53	21.74	21.73	21.73	21.50	21.49	21.49	
		50	50	21.50	21.38	21.25	21.70	21.58	21.45	21.46	21.34	21.21	
		100	0	21.36	21.31	21.50	21.56	21.51	21.70	21.32	21.27	21.46	
64QAM		1	0	21.67	21.57	21.88	21.87	21.77	22.08	21.63	21.53	21.84	
		1	50	22.33	22.48	22.08	22.53	22.68	22.28	22.29	22.44	22.04	
		1	99	21.79	21.67	21.55	21.99	21.87	21.75	21.75	21.63	21.51	
		50	0	20.51	20.37	20.68	20.71	20.57	20.88	20.47	20.33	20.64	
		50	25	20.44	20.37	20.51	20.64	20.57	20.71	20.40	20.33	20.47	
		50	50	20.33	20.36	20.28	20.53	20.56	20.48	20.29	20.32	20.24	
		100	0	20.30	20.43	20.37	20.50	20.63	20.57	20.26	20.39	20.33	



LTE Band 7				Maximum Output Power(dBm)			Low Antenna EIRP (dBm)			Upper Antenna EIRP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20775/2502.5	21100/2535	21425/2567.5	20775/2502.5	21100/2535	21425/2567.5	20775/2502.5	21100/2535	21425/2567.5
5MHz	QPSK	1	0	22.35	22.46	22.17	23.25	23.36	23.07	22.72	22.83	22.54
		1	13	22.74	22.61	22.77	23.64	23.51	23.67	23.11	22.98	23.14
		1	24	22.35	22.35	22.38	23.25	23.25	23.28	22.72	22.72	22.75
		12	0	21.51	21.35	21.24	22.41	22.25	22.14	21.88	21.72	21.61
		12	6	21.37	21.35	21.11	22.27	22.25	22.01	21.74	21.72	21.48
		12	13	21.21	21.32	21.09	22.11	22.22	21.99	21.58	21.69	21.46
		25	0	21.29	21.26	21.19	22.19	22.16	22.09	21.66	21.63	21.56
	16QAM	1	0	21.34	21.16	21.08	22.24	22.06	21.98	21.71	21.53	21.45
		1	13	21.32	21.27	21.17	22.22	22.17	22.07	21.69	21.64	21.54
		1	24	21.07	21.15	21.12	21.97	22.05	22.02	21.44	21.52	21.49
		12	0	20.27	20.26	20.27	21.17	21.16	21.17	20.64	20.63	20.64
		12	6	20.27	20.35	20.14	21.17	21.25	21.04	20.64	20.72	20.51
		12	13	20.14	20.30	20.16	21.04	21.20	21.06	20.51	20.67	20.53
		25	0	20.08	20.19	20.19	20.98	21.09	21.09	20.45	20.56	20.56
	64QAM	1	0	20.52	20.79	20.36	21.42	21.69	21.26	20.89	21.16	20.73
		1	13	20.82	20.97	20.63	21.72	21.87	21.53	21.19	21.34	21.00
		1	24	20.26	20.70	20.29	21.16	21.60	21.19	20.63	21.07	20.66
		12	0	19.57	19.59	19.58	20.47	20.49	20.48	19.94	19.96	19.95
		12	6	19.58	19.69	19.37	20.48	20.59	20.27	19.95	20.06	19.74
		12	13	19.40	19.58	19.32	20.30	20.48	20.22	19.77	19.95	19.69
		25	0	19.52	19.44	19.34	20.42	20.34	20.24	19.89	19.81	19.71
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20800/2505	21100/2535	21400/2565	20800/2505	21100/2535	21400/2565	20800/2505	21100/2535	21400/2565
10MHz	QPSK	1	0	22.37	22.47	22.20	23.27	23.37	23.10	22.74	22.84	22.57
		1	25	22.77	22.66	22.81	23.67	23.56	23.71	23.14	23.03	23.18
		1	49	22.37	22.39	22.41	23.27	23.29	23.31	22.74	22.76	22.78
		25	0	21.54	21.40	21.28	22.44	22.30	22.18	21.91	21.77	21.65
		25	13	21.40	21.40	21.15	22.30	22.30	22.05	21.77	21.77	21.52
		25	25	21.23	21.36	21.14	22.13	22.26	22.04	21.60	21.73	21.51
		50	0	21.33	21.28	21.23	22.23	22.18	22.13	21.70	21.65	21.60
	16QAM	1	0	21.36	21.19	21.10	22.26	22.09	22.00	21.73	21.56	21.47
		1	25	21.35	21.31	21.20	22.25	22.21	22.10	21.72	21.68	21.57



		1	49	21.10	21.17	21.15	22.00	22.07	22.05	21.47	21.54	21.52
		25	0	20.30	20.31	20.31	21.20	21.21	21.21	20.67	20.68	20.68
		25	13	20.29	20.39	20.17	21.19	21.29	21.07	20.66	20.76	20.54
		25	25	20.17	20.35	20.20	21.07	21.25	21.10	20.54	20.72	20.57
		50	0	20.11	20.24	20.23	21.01	21.14	21.13	20.48	20.61	20.60
	64QAM	1	0	20.54	20.78	20.38	21.44	21.68	21.28	20.91	21.15	20.75
		1	25	20.85	20.97	20.66	21.75	21.87	21.56	21.22	21.34	21.03
		1	49	20.25	20.72	20.32	21.15	21.62	21.22	20.62	21.09	20.69
		25	0	19.60	19.64	19.58	20.50	20.54	20.48	19.97	20.01	19.95
		25	13	19.60	19.73	19.40	20.50	20.63	20.30	19.97	20.10	19.77
		25	25	19.43	19.63	19.36	20.33	20.53	20.26	19.80	20.00	19.73
		50	0	19.55	19.49	19.38	20.45	20.39	20.28	19.92	19.86	19.75
	BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)							
20825/ 2507.5					21100/ 2535	21375/ 2562.5	20825/ 2507.5	21100/ 2535	21375/ 2562.5	20825/ 2507.5	21100/ 2535	21375/ 2562.5
15MHz	QPSK	1	0	22.36	22.43	22.18	23.26	23.33	23.08	22.73	22.80	22.55
		1	38	22.75	22.65	22.78	23.65	23.55	23.68	23.12	23.02	23.15
		1	74	22.34	22.34	22.37	23.24	23.24	23.27	22.71	22.71	22.74
		36	0	21.52	21.36	21.25	22.42	22.26	22.15	21.89	21.73	21.62
		36	18	21.37	21.35	21.11	22.27	22.25	22.01	21.74	21.72	21.48
		36	39	21.20	21.33	21.10	22.10	22.23	22.00	21.57	21.70	21.47
		75	0	21.31	21.24	21.18	22.21	22.14	22.08	21.68	21.61	21.55
	16QAM	1	0	21.31	21.17	21.08	22.21	22.07	21.98	21.68	21.54	21.45
		1	38	21.33	21.28	21.18	22.23	22.18	22.08	21.70	21.65	21.55
		1	74	21.07	21.13	21.12	21.97	22.03	22.02	21.44	21.50	21.49
		36	0	20.27	20.29	20.28	21.17	21.19	21.18	20.64	20.66	20.65
		36	18	20.26	20.34	20.13	21.16	21.24	21.03	20.63	20.71	20.50
		36	39	20.15	20.31	20.17	21.05	21.21	21.07	20.52	20.68	20.54
		75	0	20.08	20.19	20.19	20.98	21.09	21.09	20.45	20.56	20.56
	64QAM	1	0	20.49	20.76	20.36	21.39	21.66	21.26	20.86	21.13	20.73
		1	38	20.83	20.94	20.64	21.73	21.84	21.54	21.20	21.31	21.01
		1	74	20.26	20.71	20.33	21.16	21.61	21.23	20.63	21.08	20.70
		36	0	19.59	19.66	19.59	20.49	20.56	20.49	19.96	20.03	19.96
		36	18	19.58	19.70	19.39	20.48	20.60	20.29	19.95	20.07	19.76
		36	39	19.41	19.59	19.33	20.31	20.49	20.23	19.78	19.96	19.70
		75	0	19.52	19.44	19.34	20.42	20.34	20.24	19.89	19.81	19.71



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20850/2510	21100/2535	21350/2560	20850/2510	21100/2535	21350/2560	20850/2510	21100/2535	21350/2560
20MHz	QPSK	1	0	22.33	22.39	22.15	23.23	23.29	23.05	22.70	22.76	22.52
		1	50	22.74	22.61	22.76	23.64	23.51	23.66	23.11	22.98	23.13
		1	99	22.32	22.33	22.34	23.22	23.23	23.24	22.69	22.70	22.71
		50	0	21.49	21.31	21.21	22.39	22.21	22.11	21.86	21.68	21.58
		50	25	21.35	21.31	21.08	22.25	22.21	21.98	21.72	21.68	21.45
		50	50	21.17	21.28	21.06	22.07	22.18	21.96	21.54	21.65	21.43
		100	0	21.28	21.19	21.14	22.18	22.09	22.04	21.65	21.56	21.51
	16QAM	1	0	21.04	21.13	21.03	21.94	22.03	21.93	21.41	21.50	21.40
		1	50	21.29	21.26	21.14	22.19	22.16	22.04	21.66	21.63	21.51
		1	99	21.05	21.10	21.10	21.95	22.00	22.00	21.42	21.47	21.47
		50	0	20.24	20.25	20.25	21.14	21.15	21.15	20.61	20.62	20.62
		50	25	20.23	20.32	20.10	21.13	21.22	21.00	20.60	20.69	20.47
		50	50	20.12	20.26	20.13	21.02	21.16	21.03	20.49	20.63	20.50
		100	0	20.06	20.15	20.16	20.96	21.05	21.06	20.43	20.52	20.53
	64QAM	1	0	20.47	20.72	20.31	21.37	21.62	21.21	20.84	21.09	20.68
		1	50	20.79	20.92	20.60	21.69	21.82	21.50	21.16	21.29	20.97
		1	99	20.20	20.65	20.27	21.10	21.55	21.17	20.57	21.02	20.64
		50	0	19.54	19.58	19.52	20.44	20.48	20.42	19.91	19.95	19.89
		50	25	19.54	19.66	19.33	20.44	20.56	20.23	19.91	20.03	19.70
		50	50	19.38	19.54	19.29	20.28	20.44	20.19	19.75	19.91	19.66
		100	0	19.50	19.40	19.31	20.40	20.30	20.21	19.87	19.77	19.68

LTE Band 38				Maximum Output Power(dBm)			Low Antenna EIRP (dBm)			Upper Antenna EIRP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37775/2572.5	38000/2595	38225/2617.5	37775/2572.5	38000/2595	38225/2617.5	37775/2572.5	38000/2595	38225/2617.5
5MHz	QPSK	1	0	23.42	23.21	23.17	24.42	24.21	24.17	24.20	23.99	23.95
		1	13	23.12	23.25	23.22	24.12	24.25	24.22	23.90	24.03	24.00
		1	24	23.00	23.14	23.12	24.00	24.14	24.12	23.78	23.92	23.90
		12	0	22.01	22.01	21.98	23.01	23.01	22.98	22.79	22.79	22.76
		12	6	21.95	22.05	21.98	22.95	23.05	22.98	22.73	22.83	22.76
		12	13	22.01	22.06	22.11	23.01	23.06	23.11	22.79	22.84	22.89
		25	0	22.07	22.12	22.10	23.07	23.12	23.10	22.85	22.90	22.88
	16QAM	1	0	22.29	21.69	21.68	23.29	22.69	22.68	23.07	22.47	22.46



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37800/2575	38000/2595	38200/2615	37800/2575	38000/2595	38200/2615	37800/2575	38000/2595	38200/2615
		1	13	22.27	22.11	22.24	23.27	23.11	23.24	23.05	22.89	23.02
		1	24	21.43	21.53	21.57	22.43	22.53	22.57	22.21	22.31	22.35
		12	0	21.18	21.01	20.98	22.18	22.01	21.98	21.96	21.79	21.76
		12	6	21.07	20.97	21.07	22.07	21.97	22.07	21.85	21.75	21.85
		12	13	20.85	20.85	20.92	21.85	21.85	21.92	21.63	21.63	21.70
		25	0	21.38	21.32	21.34	22.38	22.32	22.34	22.16	22.10	22.12
	64QAM	1	0	20.68	20.77	20.77	21.68	21.77	21.77	21.46	21.55	21.55
		1	13	21.07	21.02	21.04	22.07	22.02	22.04	21.85	21.80	21.82
		1	24	20.71	20.85	20.77	21.71	21.85	21.77	21.49	21.63	21.55
		12	0	20.51	20.15	20.16	21.51	21.15	21.16	21.29	20.93	20.94
		12	6	20.10	20.09	20.10	21.10	21.09	21.10	20.88	20.87	20.88
		12	13	19.97	20.03	20.02	20.97	21.03	21.02	20.75	20.81	20.80
		25	0	20.07	20.06	20.11	21.07	21.06	21.11	20.85	20.84	20.89
		10MHz	QPSK	1	0	23.44	23.22	23.20	24.44	24.22	24.20	24.22
1	25	23.15		23.30	23.26	24.15	24.30	24.26	23.93	24.08	24.04	
1	49	23.02		23.18	23.15	24.02	24.18	24.15	23.80	23.96	23.93	
25	0	22.04		22.06	22.02	23.04	23.06	23.02	22.82	22.84	22.80	
25	13	21.98		22.10	22.02	22.98	23.10	23.02	22.76	22.88	22.80	
25	25	22.03		22.10	22.16	23.03	23.10	23.16	22.81	22.88	22.94	
50	0	22.11		22.14	22.14	23.11	23.14	23.14	22.89	22.92	22.92	
16QAM	1	0	22.31	21.72	21.70	23.31	22.72	22.70	23.09	22.50	22.48	
	1	25	22.30	22.15	22.27	23.30	23.15	23.27	23.08	22.93	23.05	
	1	49	21.46	21.55	21.60	22.46	22.55	22.60	22.24	22.33	22.38	
	25	0	21.21	21.06	21.02	22.21	22.06	22.02	21.99	21.84	21.80	
	25	13	21.09	21.01	21.10	22.09	22.01	22.10	21.87	21.79	21.88	
	25	25	20.88	20.90	20.96	21.88	21.90	21.96	21.66	21.68	21.74	
	50	0	21.41	21.37	21.38	22.41	22.37	22.38	22.19	22.15	22.16	
64QAM	1	0	20.70	20.76	20.79	21.70	21.76	21.79	21.48	21.54	21.57	
	1	25	21.10	21.02	21.07	22.10	22.02	22.07	21.88	21.80	21.85	
	1	49	20.70	20.87	20.80	21.70	21.87	21.80	21.48	21.65	21.58	
	25	0	20.54	20.20	20.16	21.54	21.20	21.16	21.32	20.98	20.94	
	25	13	20.12	20.13	20.13	21.12	21.13	21.13	20.90	20.91	20.91	
	25	25	20.00	20.08	20.06	21.00	21.08	21.06	20.78	20.86	20.84	
	50	0	20.10	20.11	20.15	21.10	21.11	21.15	20.88	20.89	20.93	



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37825/ 2577.5	38000/ 2595	38175/ 2612.5	37825/ 2577.5	38000/ 2595	38175/ 2612.5	37825/ 2577.5	38000/ 2595	38175/ 2612.5
15MHz	QPSK	1	0	23.43	23.18	23.18	24.43	24.18	24.18	24.21	23.96	23.96
		1	38	23.13	23.29	23.23	24.13	24.29	24.23	23.91	24.07	24.01
		1	74	22.99	23.13	23.11	23.99	24.13	24.11	23.77	23.91	23.89
		36	0	22.02	22.02	21.99	23.02	23.02	22.99	22.80	22.80	22.77
		36	18	21.95	22.05	21.98	22.95	23.05	22.98	22.73	22.83	22.76
		36	39	22.00	22.07	22.12	23.00	23.07	23.12	22.78	22.85	22.90
		75	0	22.09	22.10	22.09	23.09	23.10	23.09	22.87	22.88	22.87
	16QAM	1	0	22.26	21.70	21.68	23.26	22.70	22.68	23.04	22.48	22.46
		1	38	22.28	22.12	22.25	23.28	23.12	23.25	23.06	22.90	23.03
		1	74	21.43	21.51	21.57	22.43	22.51	22.57	22.21	22.29	22.35
		36	0	21.18	21.04	20.99	22.18	22.04	21.99	21.96	21.82	21.77
		36	18	21.06	20.96	21.06	22.06	21.96	22.06	21.84	21.74	21.84
		36	39	20.86	20.86	20.93	21.86	21.86	21.93	21.64	21.64	21.71
		75	0	21.38	21.32	21.34	22.38	22.32	22.34	22.16	22.10	22.12
	64QAM	1	0	20.65	20.74	20.77	21.65	21.74	21.77	21.43	21.52	21.55
		1	38	21.08	20.99	21.05	22.08	21.99	22.05	21.86	21.77	21.83
		1	74	20.71	20.86	20.81	21.71	21.86	21.81	21.49	21.64	21.59
		36	0	20.53	20.22	20.17	21.53	21.22	21.17	21.31	21.00	20.95
		36	18	20.10	20.10	20.12	21.10	21.10	21.12	20.88	20.88	20.90
		36	39	19.98	20.04	20.03	20.98	21.04	21.03	20.76	20.82	20.81
		75	0	20.07	20.06	20.11	21.07	21.06	21.11	20.85	20.84	20.89
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37850/ 2580	38000/ 2595	38150/ 2610	37850/ 2580	38000/ 2595	38150/ 2610	37850/ 2580	38000/ 2595	38150/ 2610
20MHz	QPSK	1	0	23.40	23.14	23.15	24.40	24.14	24.15	24.18	23.92	23.93
		1	50	23.12	23.25	23.21	24.12	24.25	24.21	23.90	24.03	23.99
		1	99	22.97	23.12	23.08	23.97	24.12	24.08	23.75	23.90	23.86
		50	0	21.99	21.97	21.95	22.99	22.97	22.95	22.77	22.75	22.73
		50	25	21.93	22.01	21.95	22.93	23.01	22.95	22.71	22.79	22.73
		50	50	21.97	22.02	22.08	22.97	23.02	23.08	22.75	22.80	22.86
		100	0	22.06	22.05	22.05	23.06	23.05	23.05	22.84	22.83	22.83
	16QAM	1	0	21.70	21.66	21.63	22.70	22.66	22.63	22.48	22.44	22.41
		1	50	22.24	22.10	22.21	23.24	23.10	23.21	23.02	22.88	22.99
		1	99	21.41	21.48	21.55	22.41	22.48	22.55	22.19	22.26	22.33



		50	0	21.15	21.00	20.96	22.15	22.00	21.96	21.93	21.78	21.74
		50	25	21.03	20.94	21.03	22.03	21.94	22.03	21.81	21.72	21.81
		50	50	20.83	20.81	20.89	21.83	21.81	21.89	21.61	21.59	21.67
		100	0	21.36	21.28	21.31	22.36	22.28	22.31	22.14	22.06	22.09
	64QAM	1	0	20.63	20.70	20.72	21.63	21.70	21.72	21.41	21.48	21.50
		1	50	21.04	20.97	21.01	22.04	21.97	22.01	21.82	21.75	21.79
		1	99	20.65	20.80	20.75	21.65	21.80	21.75	21.43	21.58	21.53
		50	0	20.48	20.14	20.10	21.48	21.14	21.10	21.26	20.92	20.88
		50	25	20.06	20.06	20.06	21.06	21.06	21.06	20.84	20.84	20.84
		50	50	19.95	19.99	19.99	20.95	20.99	20.99	20.73	20.77	20.77
		100	0	20.05	20.02	20.08	21.05	21.02	21.08	20.83	20.80	20.86

LTE Band 41				Maximum Output Power(dBm)			Low Antenna EIRP (dBm)			Upper Antenna EIRP (dBm)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40065/2 537.5	40640/2 595	41215/2 652.5	40065/2 537.5	40640/2 595	41215/2 652.5	40065/2 537.5	40640/2 595	41215/2 652.5
5MHz	QPSK	1	0	22.77	22.57	22.63	22.78	22.58	22.64	23.48	23.28	23.34
		1	13	22.45	22.49	22.06	22.46	22.50	22.07	23.16	23.20	22.77
		1	24	22.28	22.56	22.28	22.29	22.57	22.29	22.99	23.27	22.99
		12	0	21.35	21.32	21.19	21.36	21.33	21.20	22.06	22.03	21.90
		12	6	21.25	21.36	21.16	21.26	21.37	21.17	21.96	22.07	21.87
		12	13	21.07	21.27	21.24	21.08	21.28	21.25	21.78	21.98	21.95
		25	0	21.21	21.21	21.08	21.22	21.22	21.09	21.92	21.92	21.79
	16QAM	1	0	21.37	20.93	21.22	21.38	20.94	21.23	22.08	21.64	21.93
		1	13	21.35	21.33	21.20	21.36	21.34	21.21	22.06	22.04	21.91
		1	24	20.44	20.76	20.30	20.45	20.77	20.31	21.15	21.47	21.01
		12	0	20.09	20.19	20.10	20.10	20.20	20.11	20.80	20.90	20.81
		12	6	20.24	20.29	20.12	20.25	20.30	20.13	20.95	21.00	20.83
		12	13	20.12	20.17	19.87	20.13	20.18	19.88	20.83	20.88	20.58
		25	0	20.18	20.18	20.09	20.19	20.19	20.10	20.89	20.89	20.80
	64QAM	1	0	19.40	19.46	20.48	19.41	19.47	20.49	20.11	20.17	21.19
		1	13	19.83	20.06	19.55	19.84	20.07	19.56	20.54	20.77	20.26
		1	24	19.22	19.37	19.08	19.23	19.38	19.09	19.93	20.08	19.79
		12	0	19.47	19.42	19.35	19.48	19.43	19.36	20.18	20.13	20.06
		12	6	19.51	19.60	19.35	19.52	19.61	19.36	20.22	20.31	20.06
		12	13	19.27	19.55	19.10	19.28	19.56	19.11	19.98	20.26	19.81



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)									
				40090/2	40640/2	41190/2	40090/2	40640/2	41190/2	40090/2	40640/2	41190/2	
				540	595	650	540	595	650	540	595	650	
		25	0	19.36	19.59	19.20	19.37	19.60	19.21	20.07	20.30	19.91	
10MHz	QPSK	1	0	22.79	22.60	22.65	22.80	22.61	22.66	23.50	23.31	23.36	
		1	25	22.48	22.53	22.09	22.49	22.54	22.10	23.19	23.24	22.80	
		1	49	22.30	22.59	22.30	22.31	22.60	22.31	23.01	23.30	23.01	
		25	0	21.38	21.36	21.22	21.39	21.37	21.23	22.09	22.07	21.93	
		25	13	21.28	21.40	21.19	21.29	21.41	21.20	21.99	22.11	21.90	
		25	25	21.09	21.32	21.26	21.10	21.33	21.27	21.80	22.03	21.97	
		50	0	21.25	21.25	21.12	21.26	21.26	21.13	21.96	21.96	21.83	
	16QAM	1	0	21.39	20.95	21.24	21.40	20.96	21.25	22.10	21.66	21.95	
		1	25	21.38	21.36	21.23	21.39	21.37	21.24	22.09	22.07	21.94	
		1	49	20.47	20.79	20.33	20.48	20.80	20.34	21.18	21.50	21.04	
		25	0	20.12	20.23	20.13	20.13	20.24	20.14	20.83	20.94	20.84	
		25	13	20.26	20.32	20.14	20.27	20.33	20.15	20.97	21.03	20.85	
		25	25	20.15	20.21	19.90	20.16	20.22	19.91	20.86	20.92	20.61	
		50	0	20.21	20.22	20.12	20.22	20.23	20.13	20.92	20.93	20.83	
	64QAM	1	0	19.42	19.48	20.50	19.43	19.49	20.51	20.13	20.19	21.21	
		1	25	19.86	20.09	19.58	19.87	20.10	19.59	20.57	20.80	20.29	
		1	49	19.21	19.40	19.07	19.22	19.41	19.08	19.92	20.11	19.78	
		25	0	19.50	19.42	19.38	19.51	19.43	19.39	20.21	20.13	20.09	
		25	13	19.53	19.63	19.37	19.54	19.64	19.38	20.24	20.34	20.08	
		25	25	19.30	19.59	19.13	19.31	19.60	19.14	20.01	20.30	19.84	
		50	0	19.39	19.63	19.23	19.40	19.64	19.24	20.10	20.34	19.94	
	BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
					40115/2	40640/2	41165/2	40115/2	40640/2	41165/2	40115/2	40640/2	41165/2
					542.5	595	647.5	542.5	595	647.5	542.5	595	647.5
15MHz	QPSK	1	0	22.78	22.58	22.64	22.79	22.59	22.65	23.49	23.29	23.35	
		1	38	22.46	22.50	22.07	22.47	22.51	22.08	23.17	23.21	22.78	
		1	74	22.27	22.55	22.27	22.28	22.56	22.28	22.98	23.26	22.98	
		36	0	21.36	21.33	21.20	21.37	21.34	21.21	22.07	22.04	21.91	
		36	18	21.25	21.36	21.16	21.26	21.37	21.17	21.96	22.07	21.87	
		36	39	21.06	21.28	21.23	21.07	21.29	21.24	21.77	21.99	21.94	
		75	0	21.23	21.20	21.10	21.24	21.21	21.11	21.94	21.91	21.81	
	16QAM	1	0	21.34	20.93	21.19	21.35	20.94	21.20	22.05	21.64	21.90	
		1	38	21.36	21.34	21.21	21.37	21.35	21.22	22.07	22.05	21.92	



		1	74	20.44	20.76	20.30	20.45	20.77	20.31	21.15	21.47	21.01
		36	0	20.09	20.20	20.10	20.10	20.21	20.11	20.80	20.91	20.81
		36	18	20.23	20.28	20.11	20.24	20.29	20.12	20.94	20.99	20.82
		36	39	20.13	20.18	19.88	20.14	20.19	19.89	20.84	20.89	20.59
		75	0	20.18	20.18	20.09	20.19	20.19	20.10	20.89	20.89	20.80
	64QAM	1	0	19.37	19.46	20.45	19.38	19.47	20.46	20.08	20.17	21.16
		1	38	19.84	20.07	19.56	19.85	20.08	19.57	20.55	20.78	20.27
		1	74	19.22	19.41	19.08	19.23	19.42	19.09	19.93	20.12	19.79
		36	0	19.49	19.43	19.37	19.50	19.44	19.38	20.20	20.14	20.08
		36	18	19.51	19.62	19.35	19.52	19.63	19.36	20.22	20.33	20.06
		36	39	19.28	19.56	19.11	19.29	19.57	19.12	19.99	20.27	19.82
		75	0	19.36	19.59	19.20	19.37	19.60	19.21	20.07	20.30	19.91
	BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)							
40140/2 545					40640/2 595	41140/2 645	40140/2 545	40640/2 595	41140/2 645	40140/2 545	40640/2 595	41140/2 645
20MHz	QPSK	1	0	22.75	22.55	22.61	22.76	22.56	22.62	23.46	23.26	23.32
		1	50	22.45	22.76	22.06	22.46	22.77	22.07	23.16	23.47	22.77
		1	99	22.25	22.52	22.25	22.26	22.53	22.26	22.96	23.23	22.96
		50	0	21.33	21.29	21.17	21.34	21.30	21.18	22.04	22.00	21.88
		50	25	21.23	21.33	21.14	21.24	21.34	21.15	21.94	22.04	21.85
		50	50	21.03	21.24	21.20	21.04	21.25	21.21	21.74	21.95	21.91
		100	0	21.20	21.16	21.07	21.21	21.17	21.08	21.91	21.87	21.78
	16QAM	1	0	20.89	20.88	20.87	20.90	20.89	20.88	21.60	21.59	21.58
		1	50	21.32	21.30	21.17	21.33	21.31	21.18	22.03	22.01	21.88
		1	99	20.42	20.74	20.28	20.43	20.75	20.29	21.13	21.45	20.99
		50	0	20.06	20.17	20.07	20.07	20.18	20.08	20.77	20.88	20.78
		50	25	20.20	20.25	20.08	20.21	20.26	20.09	20.91	20.96	20.79
		50	50	20.10	20.14	19.85	20.11	20.15	19.86	20.81	20.85	20.56
		100	0	20.16	20.15	20.07	20.17	20.16	20.08	20.87	20.86	20.78
	64QAM	1	0	19.35	19.41	20.43	19.36	19.42	20.44	20.06	20.12	21.14
		1	50	19.80	20.03	19.52	19.81	20.04	19.53	20.51	20.74	20.23
		1	99	19.16	19.35	19.02	19.17	19.36	19.03	19.87	20.06	19.73
		50	0	19.44	19.36	19.32	19.45	19.37	19.33	20.15	20.07	20.03
		50	25	19.47	19.56	19.31	19.48	19.57	19.32	20.18	20.27	20.02
		50	50	19.25	19.52	19.08	19.26	19.53	19.09	19.96	20.23	19.79
		100	0	19.34	19.56	19.18	19.35	19.57	19.19	20.05	20.27	19.89

5.2 Occupied Bandwidth

Ambient condition

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

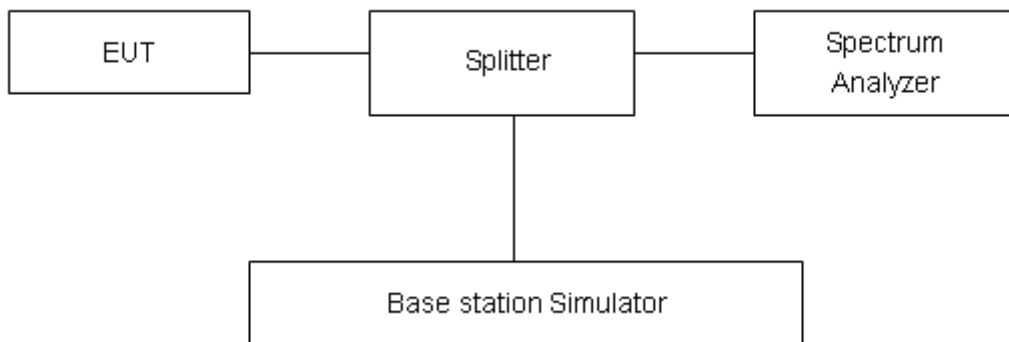
Method of Measurement

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	4.124	4.677
	1413	1732.6	4.115	4.668
	1513	1752.6	4.109	4.694

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.099	1.296
			20175	1732.5	1.095	1.279
			20393	1754.3	1.095	1.288
		3	19965	1711.5	2.704	2.955
			20175	1732.5	2.708	2.959
			20385	1753.5	2.711	2.987
		5	19975	1712.5	4.511	4.922
			20175	1732.5	4.506	4.917
			20375	1752.5	4.506	4.960
		10	20000	1715	8.989	9.841
			20175	1732.5	8.980	9.772
			20350	1750	8.954	9.869
		15	20025	1717.5	13.412	14.498
			20175	1732.5	13.408	14.538
			20325	1747.5	13.419	14.512
		20	20050	1720	17.869	19.206
			20175	1732.5	17.888	19.319
			20300	1745	17.889	19.379
	16QAM	1.4	19957	1710.7	1.098	1.276
			20175	1732.5	1.101	1.303
			20393	1754.3	1.093	1.270
		3	19965	1711.5	2.692	2.984
			20175	1732.5	2.696	2.980
			20385	1753.5	2.703	3.008
		5	19975	1712.5	4.497	4.901
			20175	1732.5	4.521	5.003
			20375	1752.5	4.502	5.009
10		20000	1715	8.982	9.771	
		20175	1732.5	8.967	9.723	
		20350	1750	8.978	9.740	



		15	20025	1717.5	13.430	14.396
			20175	1732.5	13.427	14.479
			20325	1747.5	13.440	14.517
		20	20050	1720	17.894	19.451
			20175	1732.5	17.898	19.301
			20300	1745	17.910	19.340
	64QAM	1.4	19957	1710.7	1.097	1.268
			20175	1732.5	1.094	1.278
			20393	1754.3	1.100	1.280
		3	19965	1711.5	2.689	3.019
			20175	1732.5	2.703	2.985
			20385	1753.5	2.702	2.963
		5	19975	1712.5	4.506	4.911
			20175	1732.5	4.515	4.949
			20375	1752.5	4.516	4.996
		10	20000	1715	8.952	9.860
			20175	1732.5	8.937	9.765
			20350	1750	8.960	9.840
		15	20025	1717.5	13.420	14.475
			20175	1732.5	13.377	14.678
			20325	1747.5	13.426	14.404
		20	20050	1720	17.896	19.257
			20175	1732.5	17.914	19.322
			20300	1745	17.967	19.401

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.500	4.888
			21100	2535	4.505	4.994
			21425	2567.5	4.503	4.961
		10	20800	2505	8.995	9.888
			21100	2535	8.979	9.737
			21400	2565	8.941	9.690
		15	20825	2507.5	13.444	14.482
			21100	2535	13.446	14.518
			21375	2562.5	13.392	14.656
		20	20850	2510	17.902	19.429
			21100	2535	17.925	19.193
			21350	2560	17.871	19.412



	16QAM	5	20775	2502.5	4.523	4.990
			21100	2535	4.495	4.920
			21425	2567.5	4.499	4.989
		10	20800	2505	8.963	9.818
			21100	2535	8.975	9.767
			21400	2565	8.988	9.808
		15	20825	2507.5	13.454	14.678
			21100	2535	13.397	14.614
			21375	2562.5	13.420	14.589
		20	20850	2510	17.924	19.189
			21100	2535	17.902	19.342
			21350	2560	17.874	19.346
	64QAM	5	20775	2502.5	4.509	4.957
			21100	2535	4.502	5.024
			21425	2567.5	4.500	4.947
		10	20800	2505	8.953	9.861
			21100	2535	8.968	9.699
			21400	2565	8.973	9.828
		15	20825	2507.5	13.439	14.529
			21100	2535	13.429	14.481
			21375	2562.5	13.417	14.681
		20	20850	2510	17.957	19.531
			21100	2535	17.908	19.408
			21350	2560	17.921	19.149

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.490	4.896
			38000	2595	4.504	5.192
			38225	2617.5	4.517	4.935
		10	37800	2575	8.962	9.619
			38000	2595	8.963	9.791
			38200	2615	8.978	9.795
		15	37825	2577.5	13.431	14.395
			38000	2595	13.426	14.484
			38175	2612.5	13.373	14.953
		20	37850	2580	17.916	18.953
			38000	2595	17.877	19.510
			38150	2610	17.915	19.216



	16QAM	5	37775	2572.5	4.497	4.966
			38000	2595	4.506	4.882
			38225	2617.5	4.496	4.884
		10	37800	2575	8.981	9.783
			38000	2595	8.937	9.689
			38200	2615	8.962	9.713
		15	37825	2577.5	13.413	14.434
			38000	2595	13.414	14.349
			38175	2612.5	13.373	14.629
		20	37850	2580	17.901	19.221
			38000	2595	17.906	19.311
			38150	2610	17.943	19.253
	64QAM	5	37775	2572.5	4.481	4.884
			38000	2595	4.507	4.836
			38225	2617.5	4.493	4.875
		10	37800	2575	8.953	9.695
			38000	2595	8.932	9.658
			38200	2615	8.978	9.753
		15	37825	2577.5	13.430	14.360
			38000	2595	13.417	14.946
			38175	2612.5	13.461	14.525
		20	37850	2580	17.901	19.156
			38000	2595	17.857	19.245
			38150	2610	17.931	19.078

LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	40065	2537.5	4.496	4.907
			40640	2595	4.495	5.109
			41215	2652.5	4.502	4.874
		10	40090	2540	8.946	9.843
			40640	2595	8.971	9.719
			41190	2650	8.949	9.595
		15	40115	2542.5	13.432	14.446
			40640	2595	13.426	14.543
			41165	2647.5	13.420	14.466
		20	40140	2545	17.900	19.029
			40640	2595	17.873	19.414



			41140	2645	17.919	20.059
16QAM	5		40065	2537.5	4.492	4.918
			40640	2595	4.490	4.888
			41215	2652.5	4.500	4.941
	10		40090	2540	8.959	9.603
			40640	2595	8.958	9.617
			41190	2650	8.954	9.837
	15		40115	2542.5	13.426	14.668
			40640	2595	13.449	14.441
			41165	2647.5	13.425	14.495
	20		40140	2545	17.916	19.454
			40640	2595	17.870	19.290
			41140	2645	17.891	20.613
64QAM	5		40065	2537.5	4.502	4.899
			40640	2595	4.503	4.940
			41215	2652.5	4.515	4.973
	10		40090	2540	8.958	9.768
			40640	2595	8.943	9.601
			41190	2650	8.955	9.680
	15		40115	2542.5	13.441	15.002
			40640	2595	13.401	14.569
			41165	2647.5	13.426	14.335
	20		40140	2545	17.879	19.465
			40640	2595	17.854	19.318
			41140	2645	17.836	19.105



WCDMA Band IV CH-Low



WCDMA Band IV CH Middle

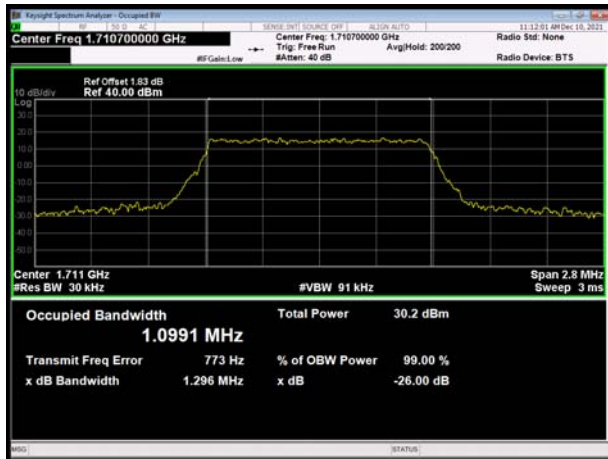


WCDMA Band IV CH High

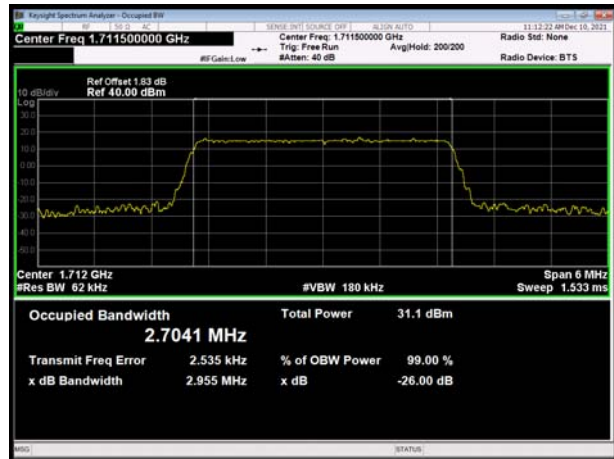




LTE Band 4 QPSK 1.4MHz CH-Low



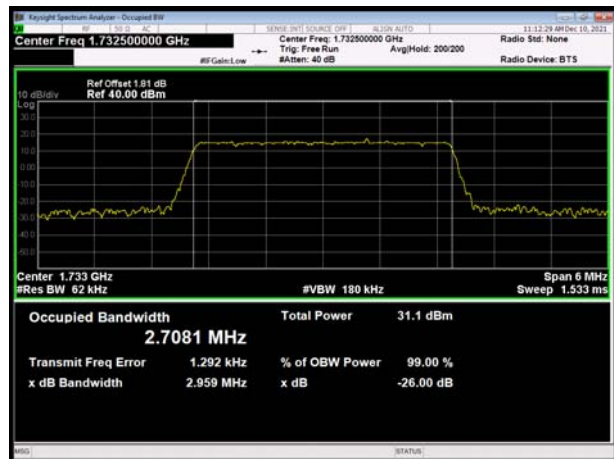
LTE Band 4 QPSK 3MHz CH-Low



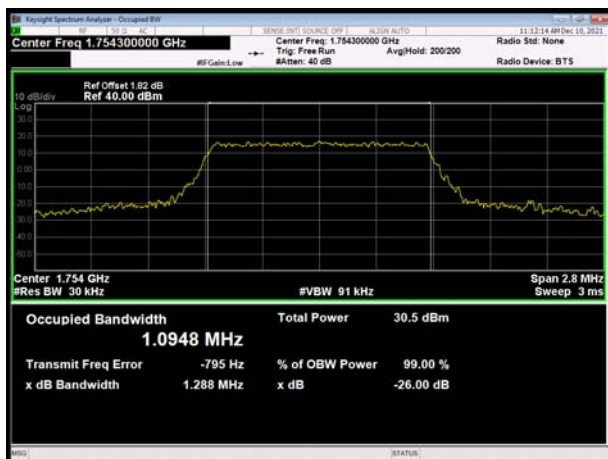
LTE Band 4 QPSK 1.4MHz CH-Middle



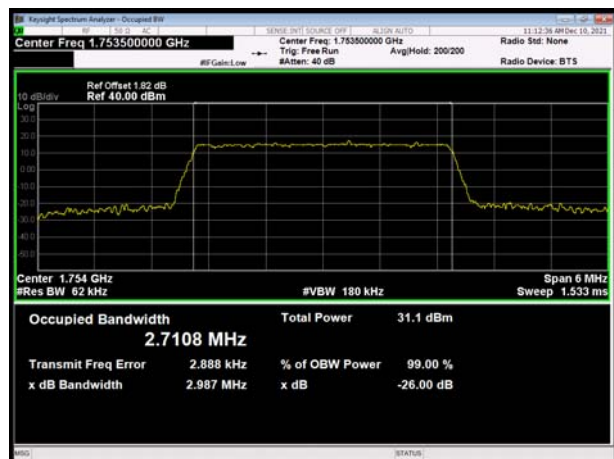
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High



LTE Band 4 QPSK 3MHz CH-High





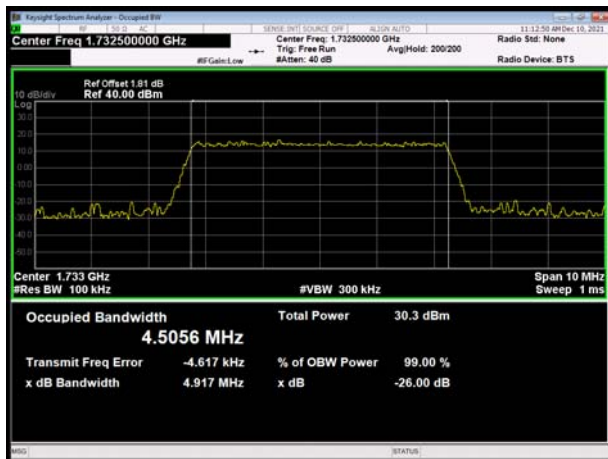
LTE Band 4 QPSK 5MHz CH-Low



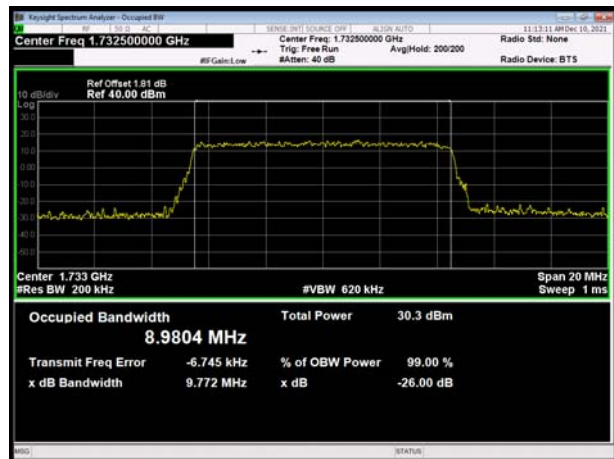
LTE Band 4 QPSK 10MHz CH-Low



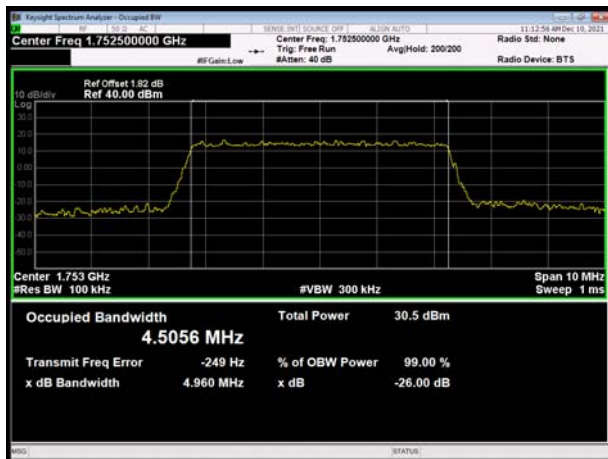
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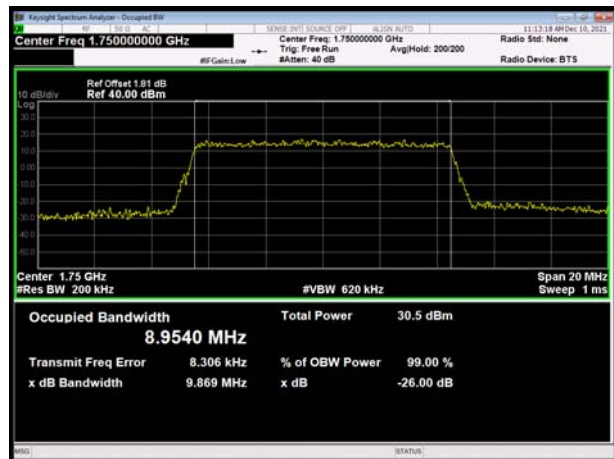
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LTE Band 4 QPSK 5MHz CH-High

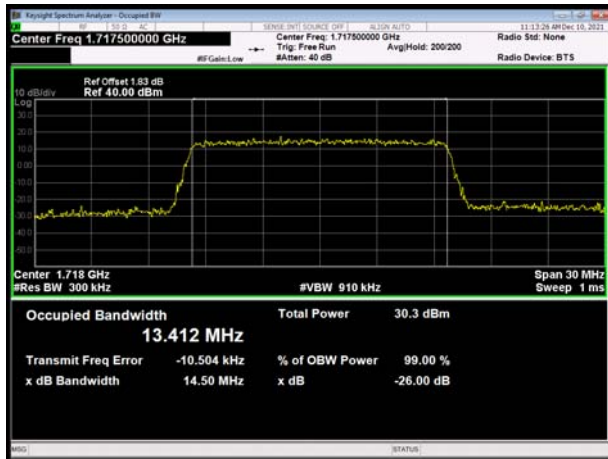


LTE Band 4 QPSK 10MHz CH-High

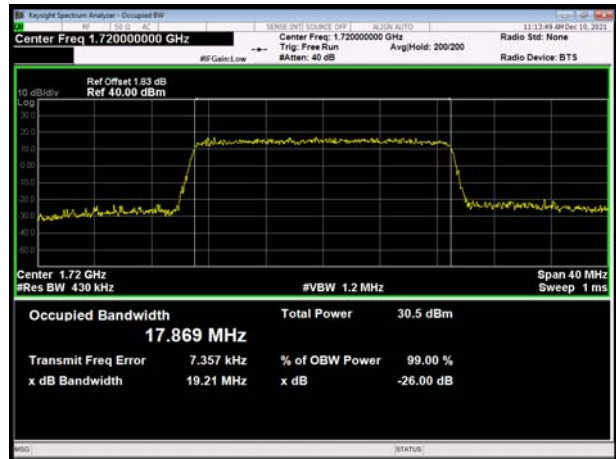




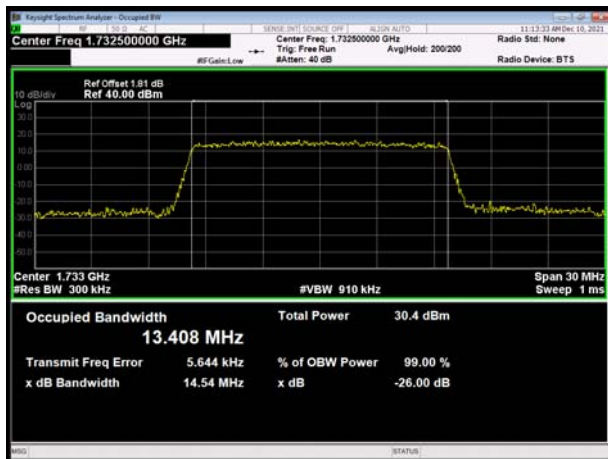
LTE Band 4 QPSK 15MHz CH-Low



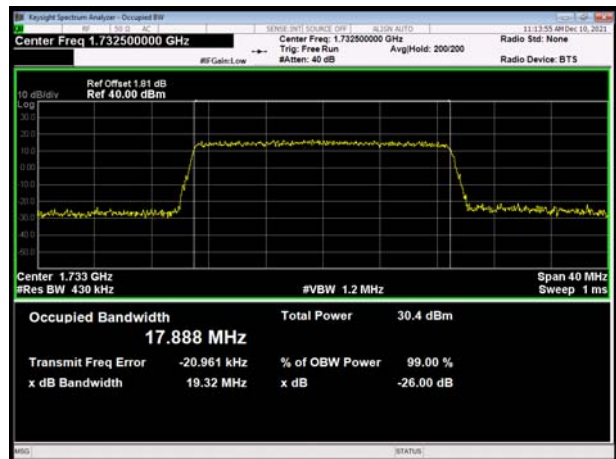
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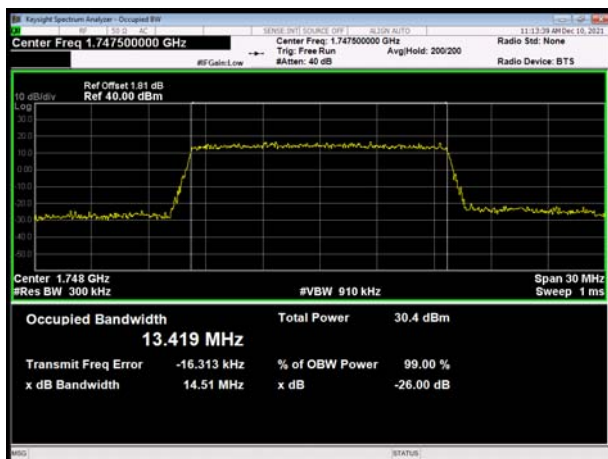
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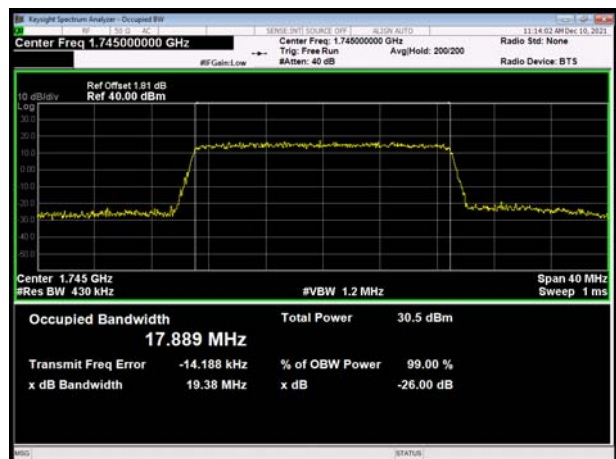
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LTE Band 4 QPSK 15MHz CH-High

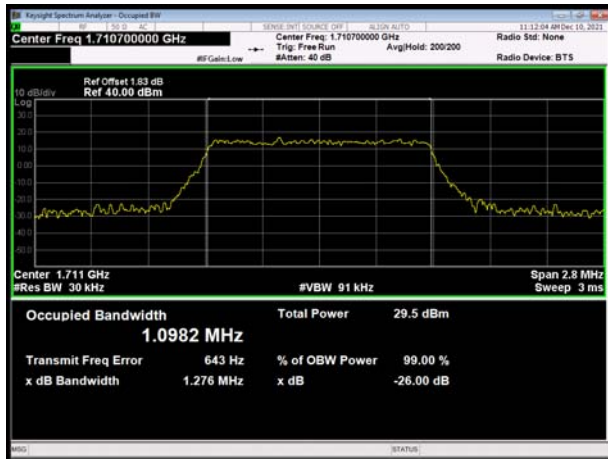


LTE Band 4 QPSK 20MHz CH-High

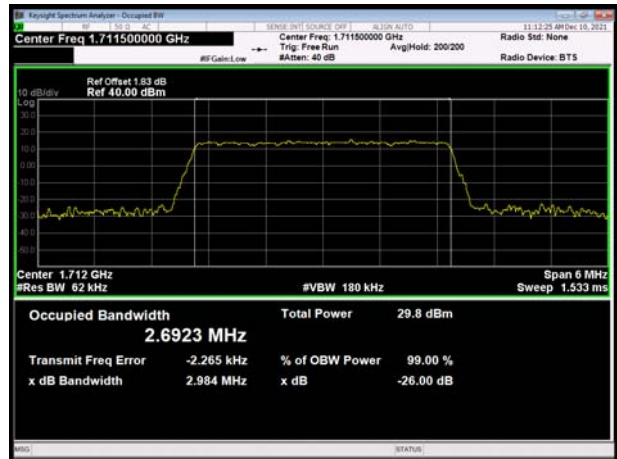




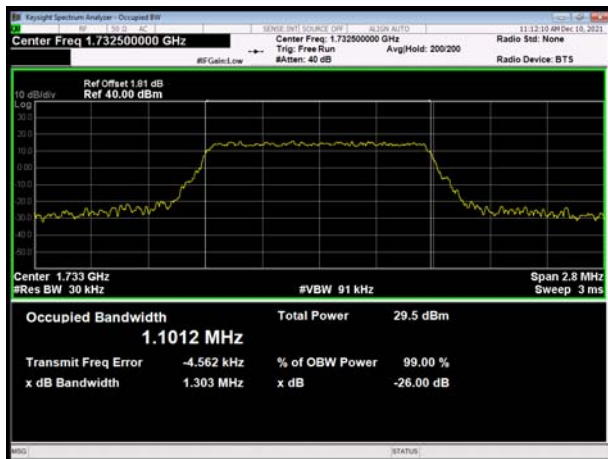
LTE Band 4 16QAM 1.4MHz CH-Low



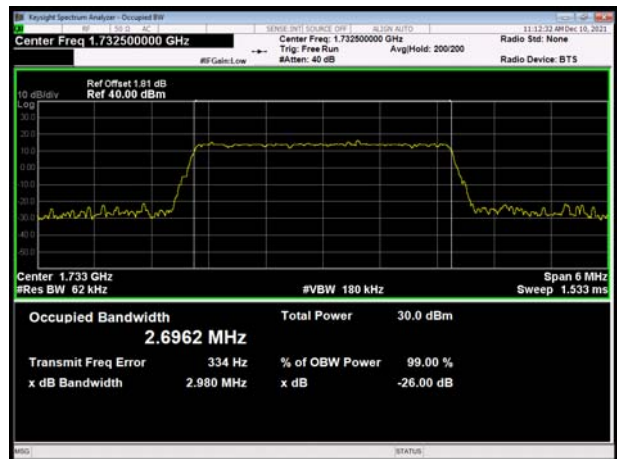
LTE Band 4 16QAM 3MHz CH-Low



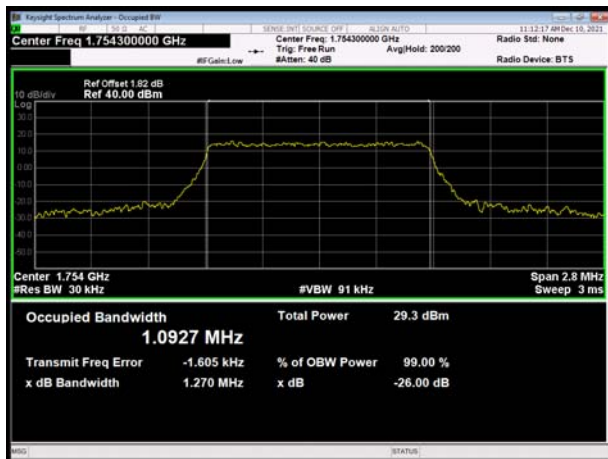
LTE Band 4 16QAM 1.4MHz CH-Middle



LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High



LTE Band 4 16QAM 3MHz CH-High





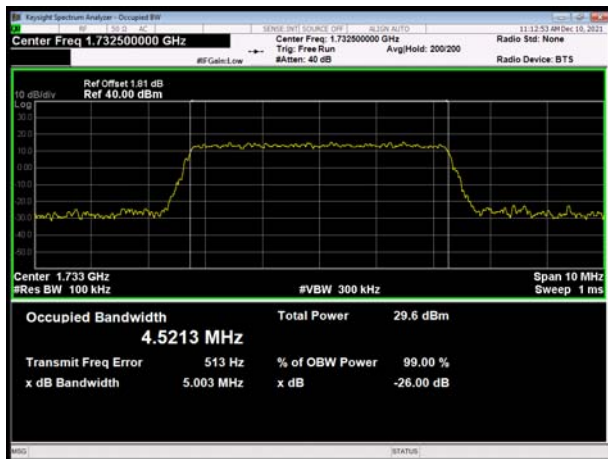
LTE Band 4 16QAM 5MHz CH-Low



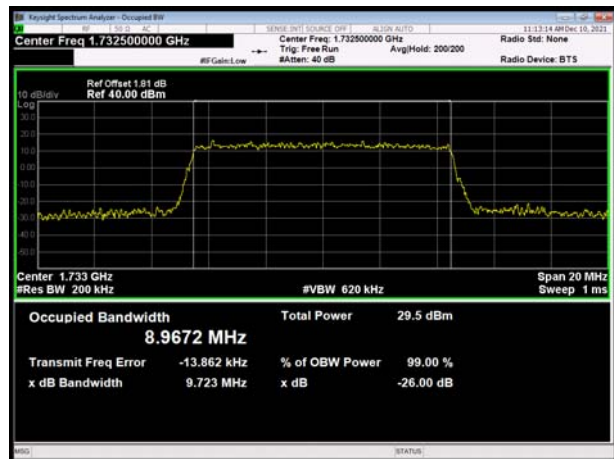
LTE Band 4 16QAM 10MHz CH-Low



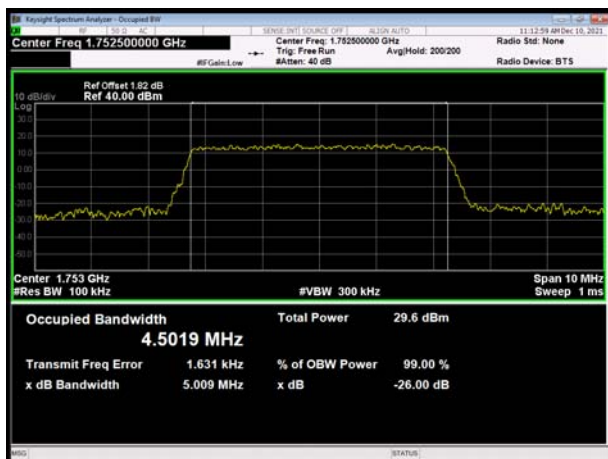
LTE Band 4 16QAM 5MHz CH-Middle



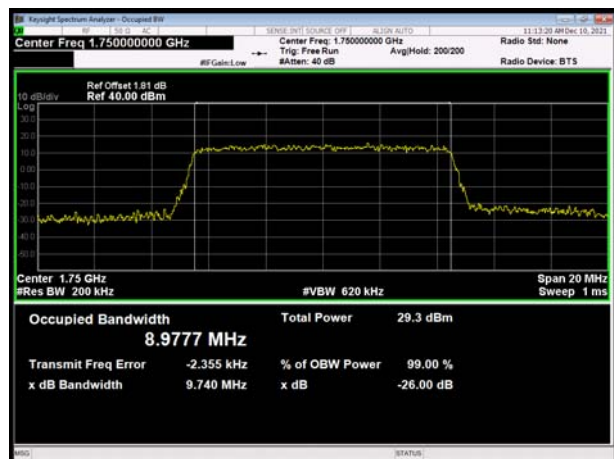
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High



LTE Band 4 16QAM 10MHz CH-High





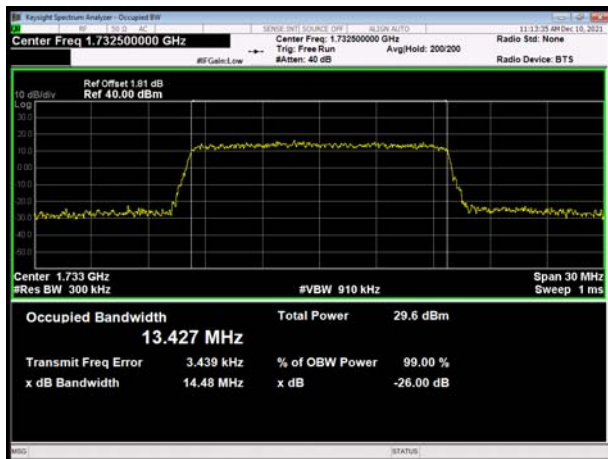
LTE Band 4 16QAM 15MHz CH-Low



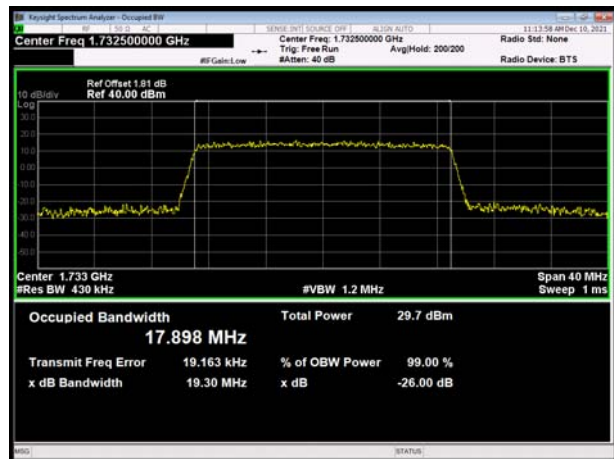
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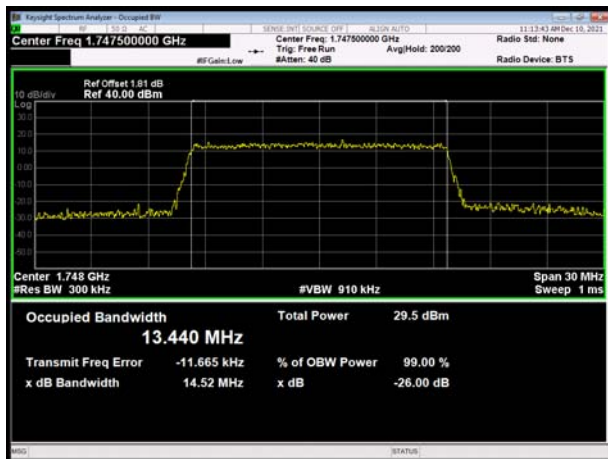
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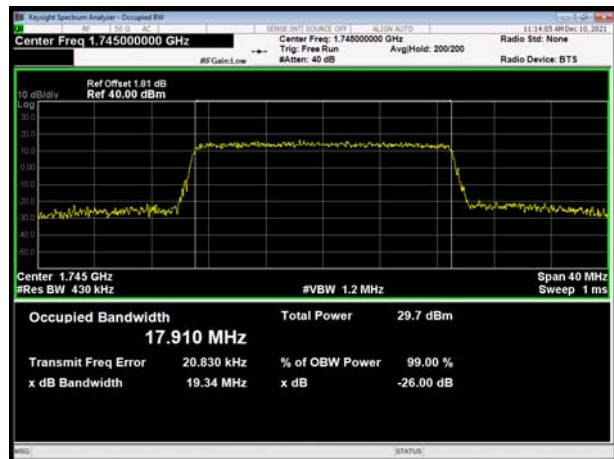
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LTE Band 4 16QAM 15MHz CH-High

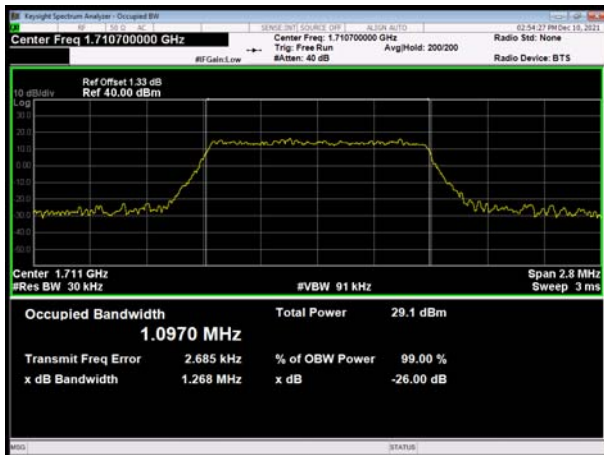


LTE Band 4 16QAM 20MHz CH-High

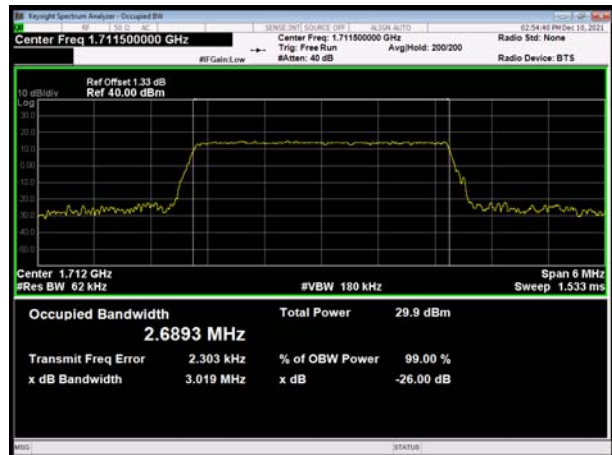




LTE Band 4 1.4MHz 64QAM CH-Low



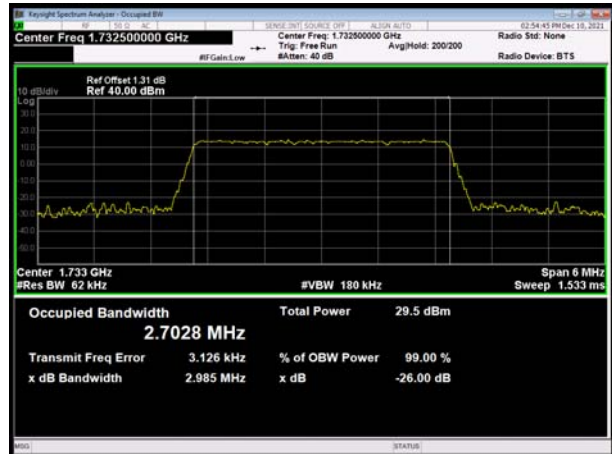
LTE Band 4 3MHz 64QAM CH-Low



LTE Band 4 1.4MHz 64QAM CH-Middle



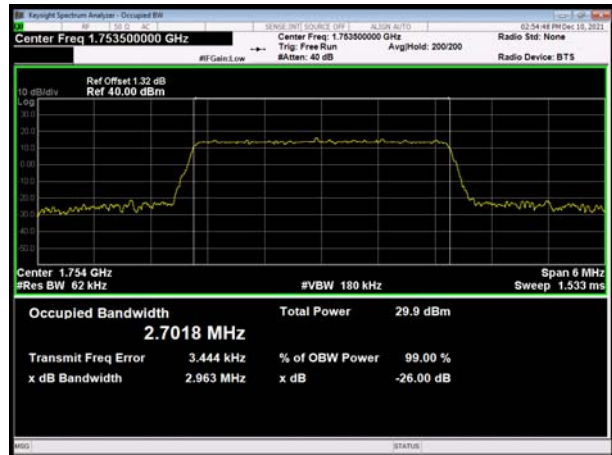
LTE Band 4 3MHz 64QAM CH-Middle



LTE Band 4 1.4MHz 64QAM CH-High

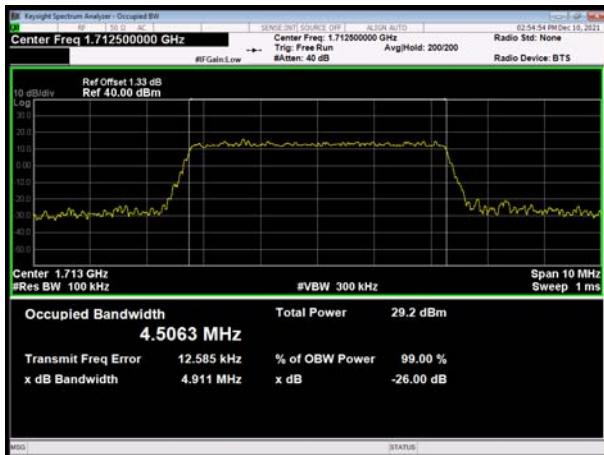


LTE Band 4 3MHz 64QAM CH-High

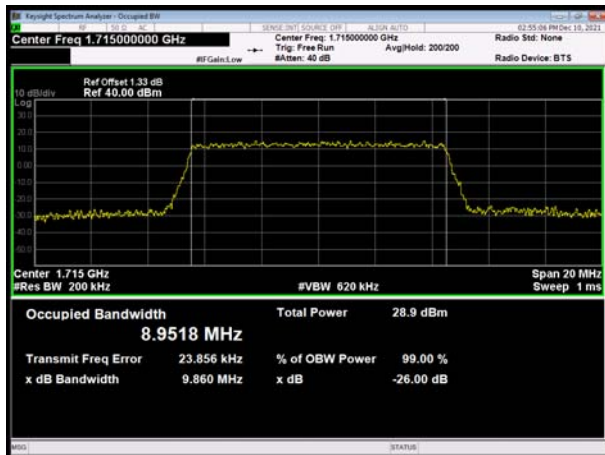




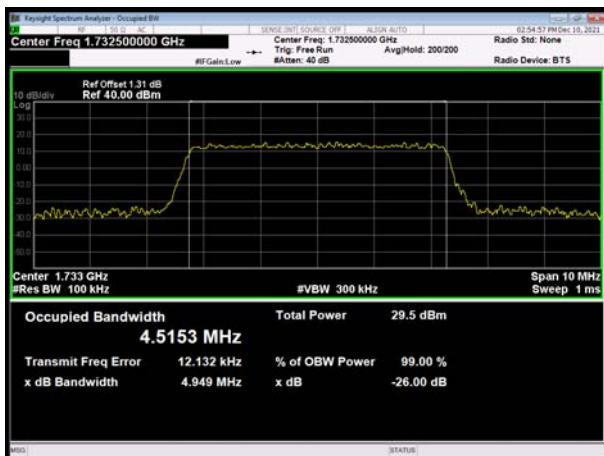
LTE Band 4 5MHz 64QAM CH-Low



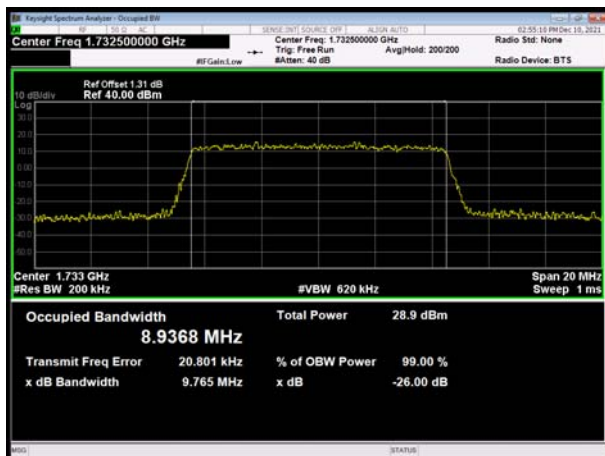
LTE Band 4 10MHz 64QAM CH-Low



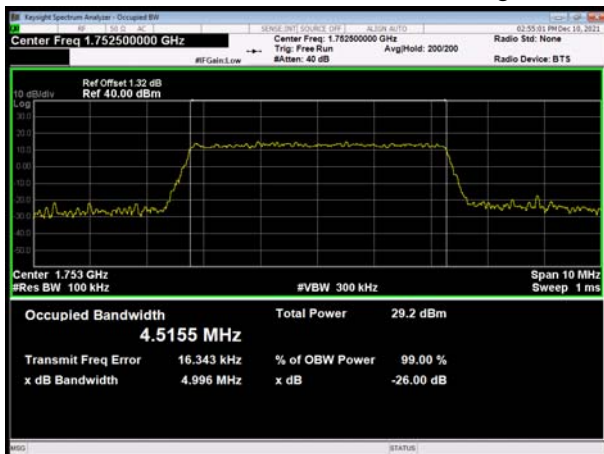
LTE Band 4 5MHz 64QAM CH-Middle



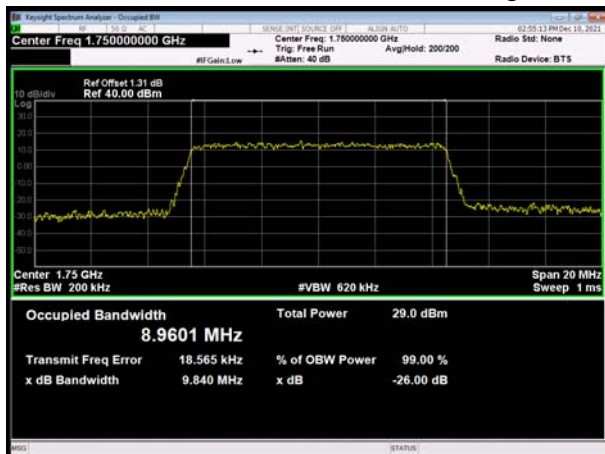
LTE Band 4 10MHz 64QAM CH-Middle



LTE Band 4 5MHz 64QAM CH-High

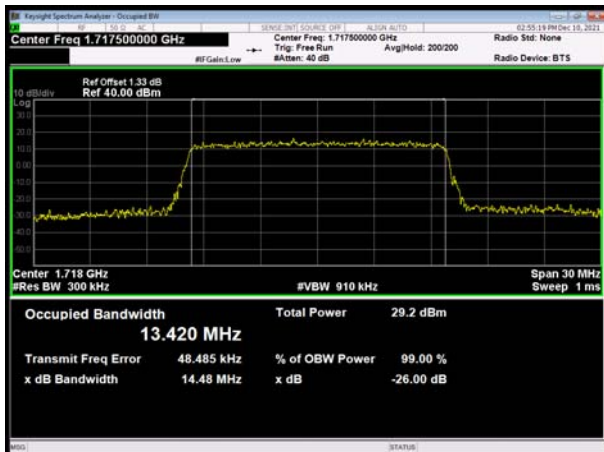


LTE Band 4 10MHz 64QAM CH-High

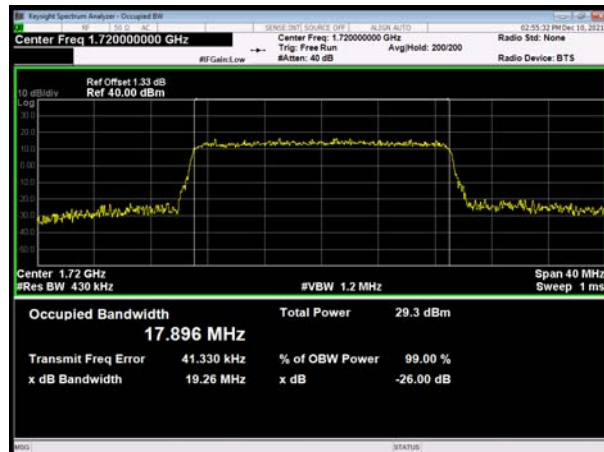




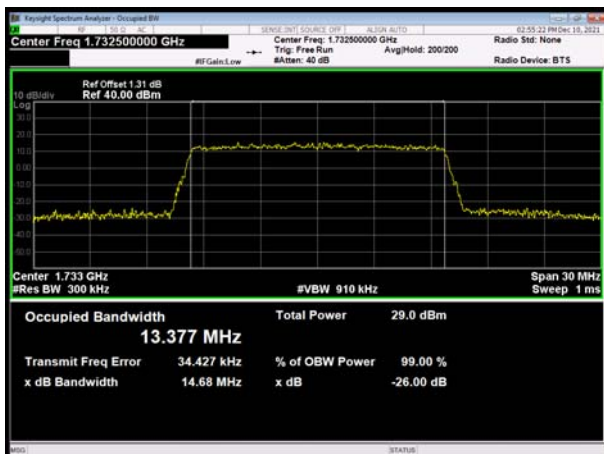
LTE Band 4 15MHz 64QAM CH-Low



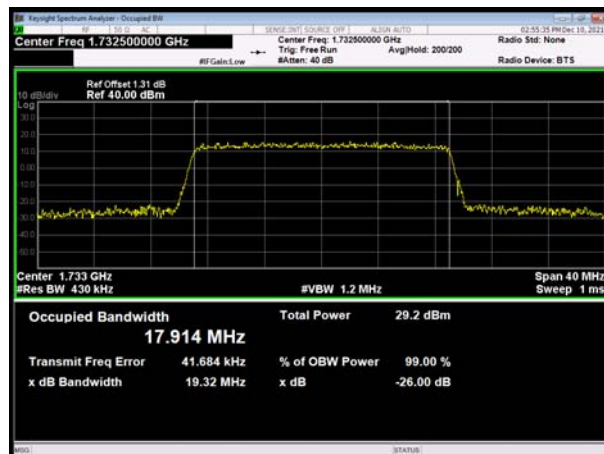
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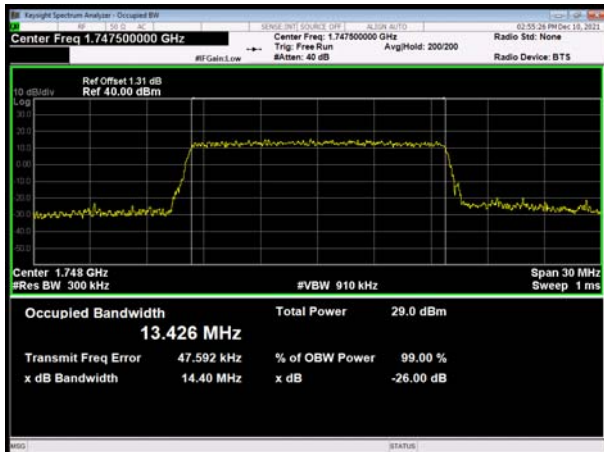
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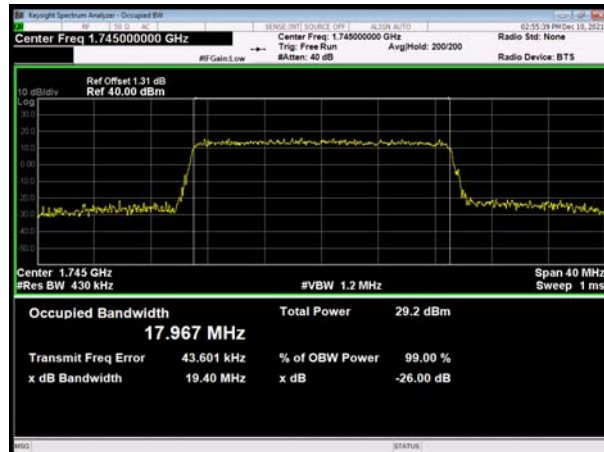
LTE Band 4 20MHz 64QAM CH-Middle



LTE Band 4 15MHz 64QAM CH-High



LTE Band 4 20MHz 64QAM CH-High





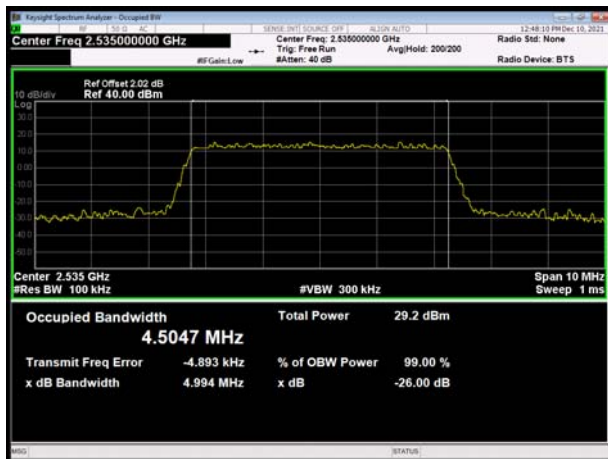
LTE Band 7 QPSK 5MHz CH-Low



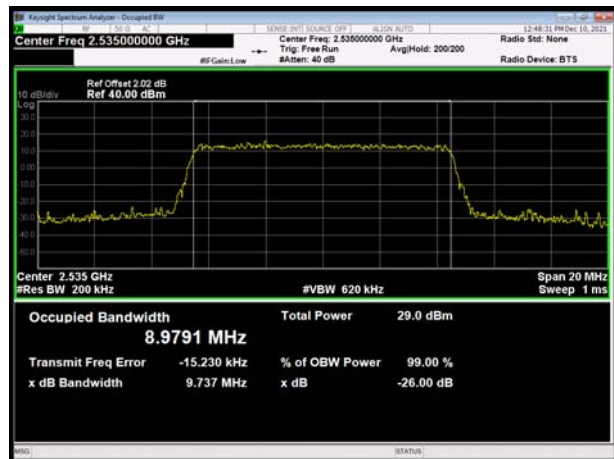
LTE Band 7 QPSK 10MHz CH-Low



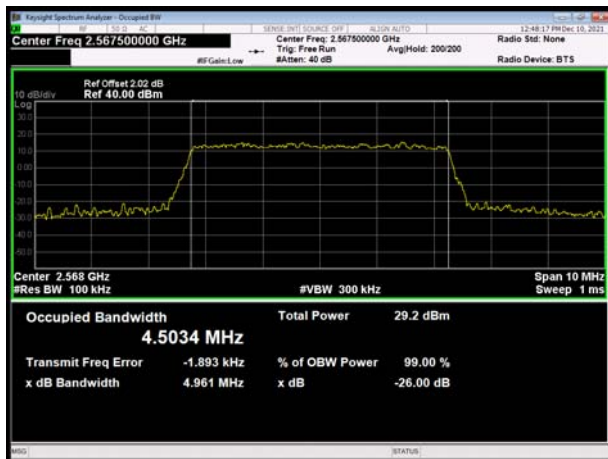
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LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

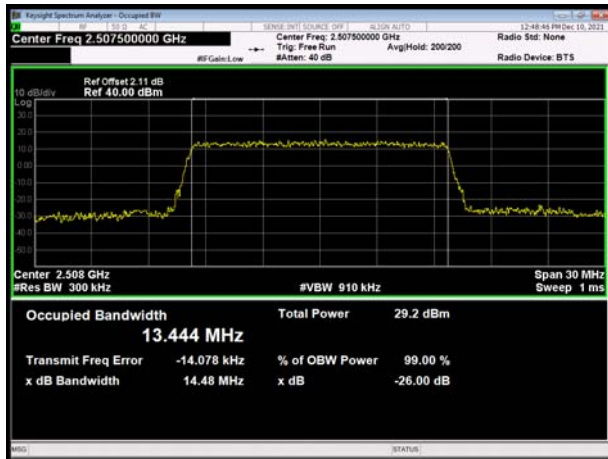


LTE Band 7 QPSK 10MHz CH-High





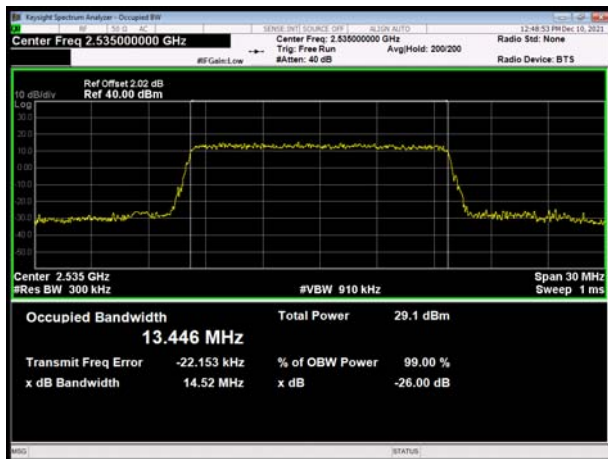
LTE Band 7 QPSK 15MHz CH-Low



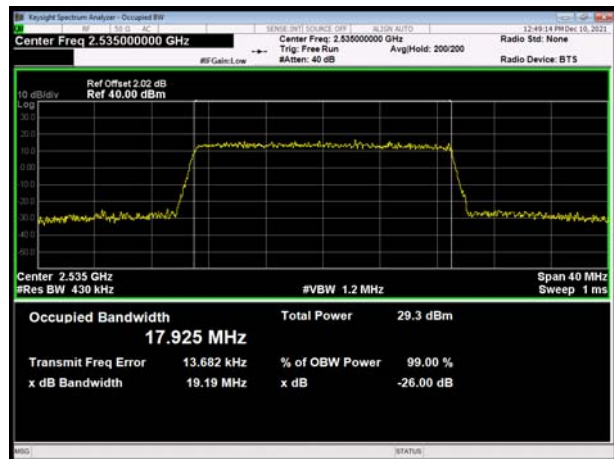
LTE Band 7 QPSK 20MHz CH-Low



LTE Band 7 QPSK 15MHz CH-Middle



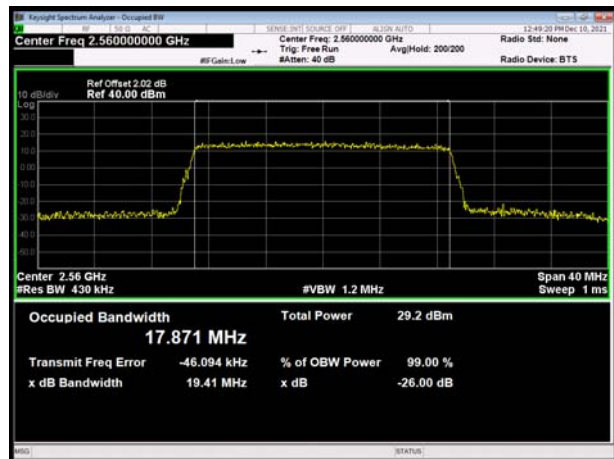
LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High



LTE Band 7 QPSK 20MHz CH-High





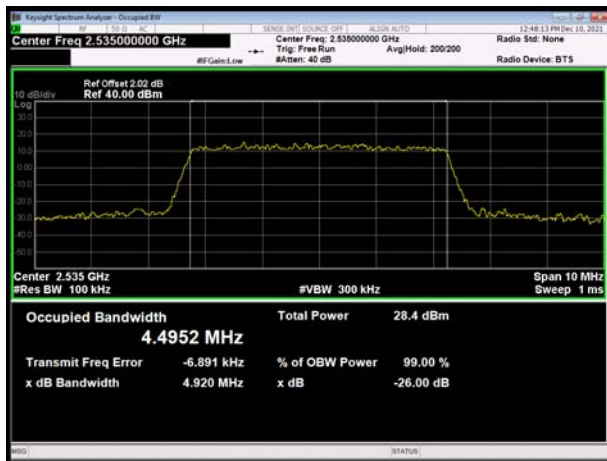
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LTE Band 7 16QAM 10MHz CH-Low



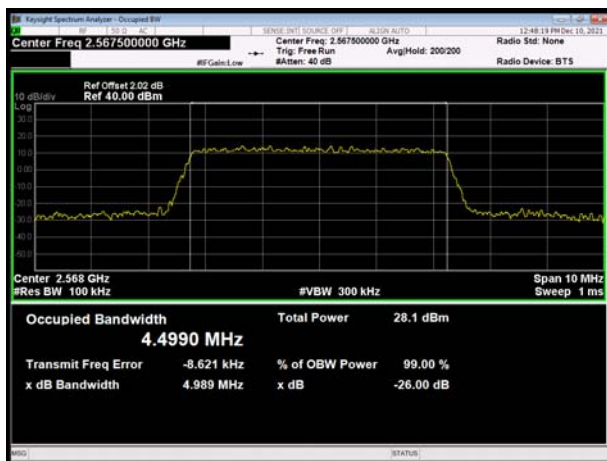
LTE Band 7 16QAM 5MHz CH-Middle



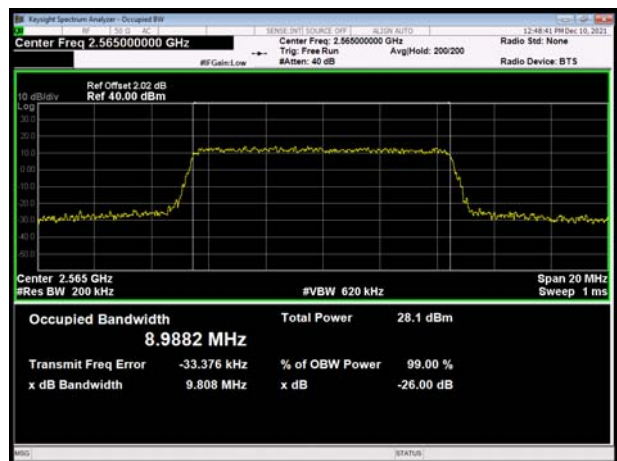
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LTE Band 7 16QAM 5MHz CH-High



LTE Band 7 16QAM 10MHz CH-High





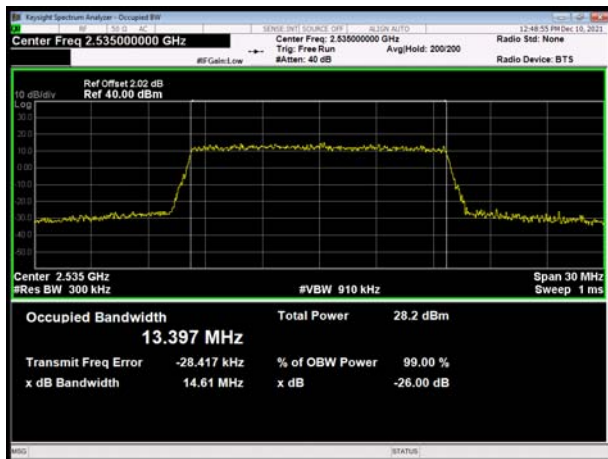
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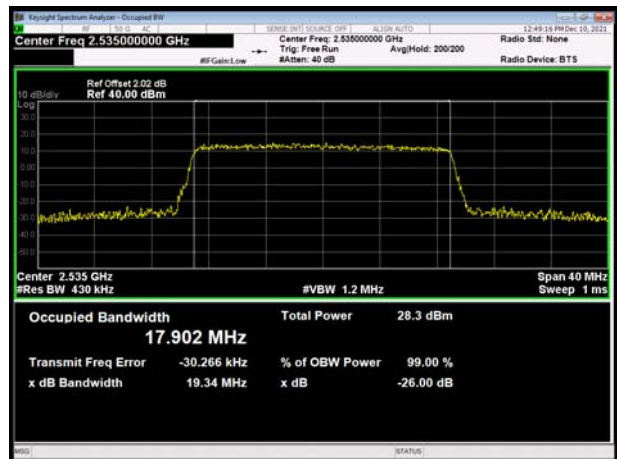
LTE Band 7 16QAM 20MHz CH-Low



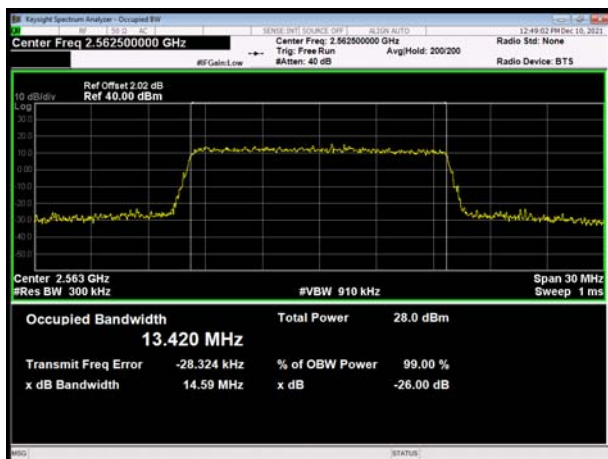
LTE Band 7 16QAM 15MHz CH-Middle



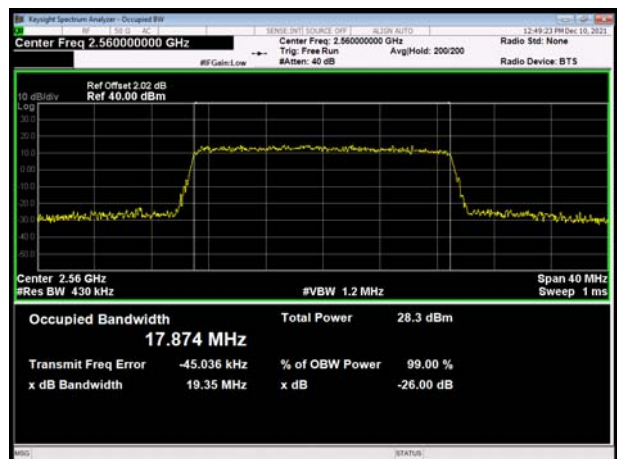
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High



LTE Band 7 16QAM 20MHz CH-High





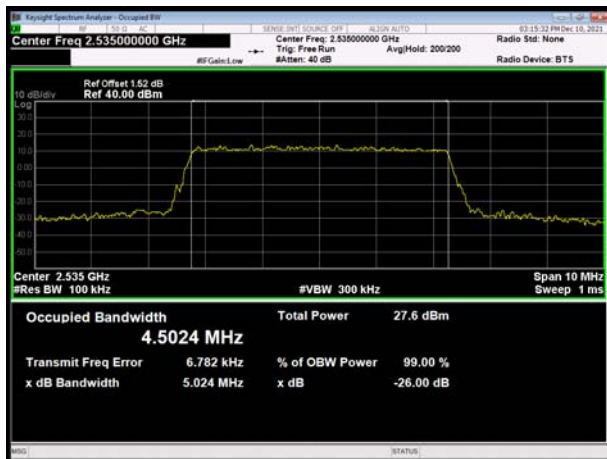
LTE Band 7 64QAM 5MHz CH-Low



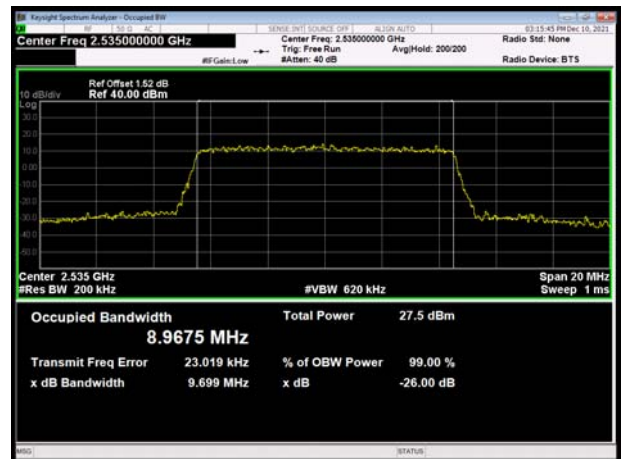
LTE Band 7 64QAM 10MHz CH-Low



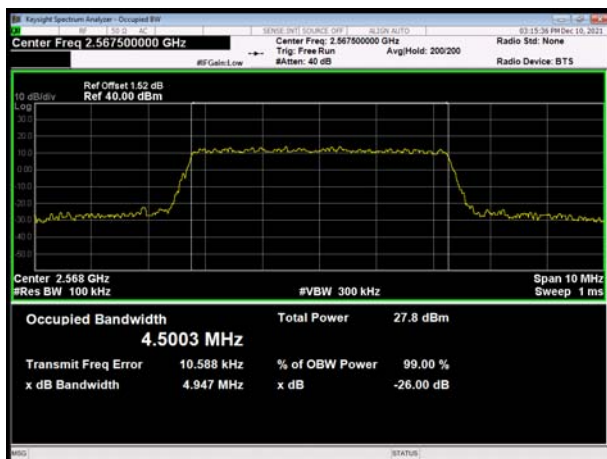
LTE Band 7 64QAM 5MHz CH-Middle



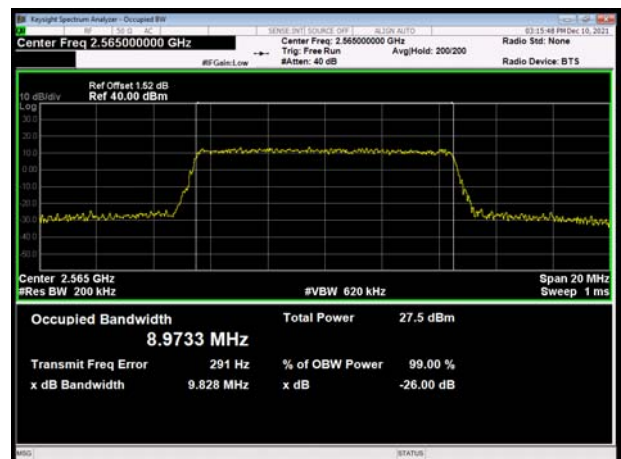
LTE Band 7 64QAM 10MHz CH-Middle



LTE Band 7 64QAM 5MHz CH-High

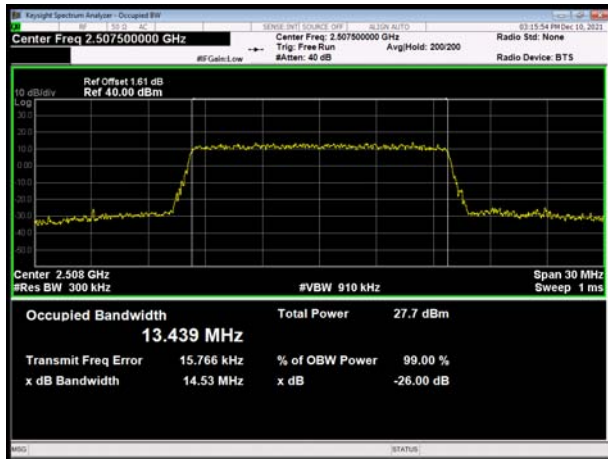


LTE Band 7 64QAM 10MHz CH-High

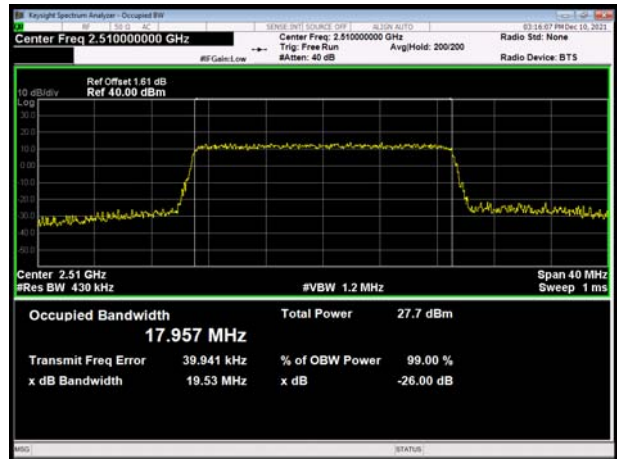




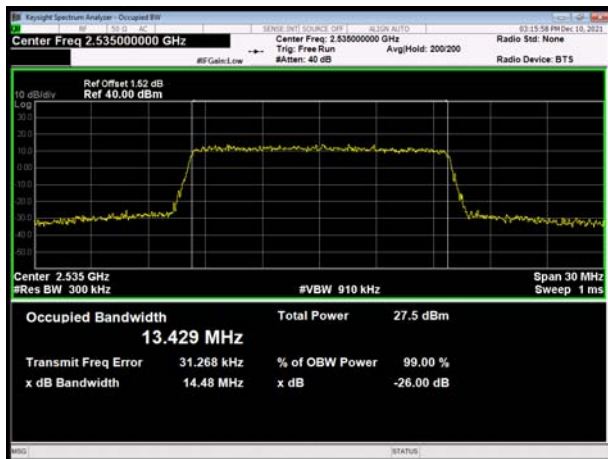
LTE Band 7 64QAM 15MHz CH-Low



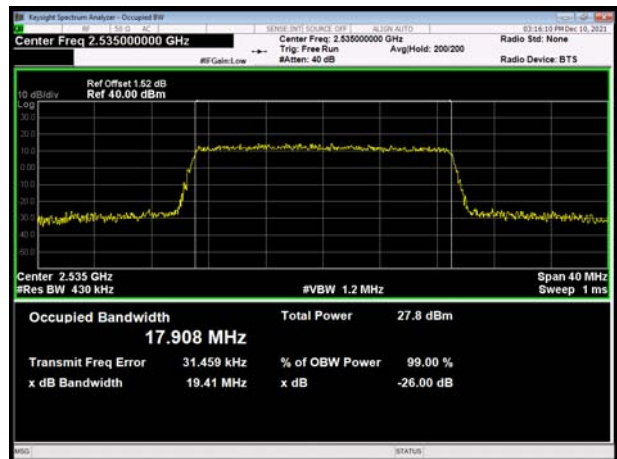
LTE Band 7 64QAM 20MHz CH-Low



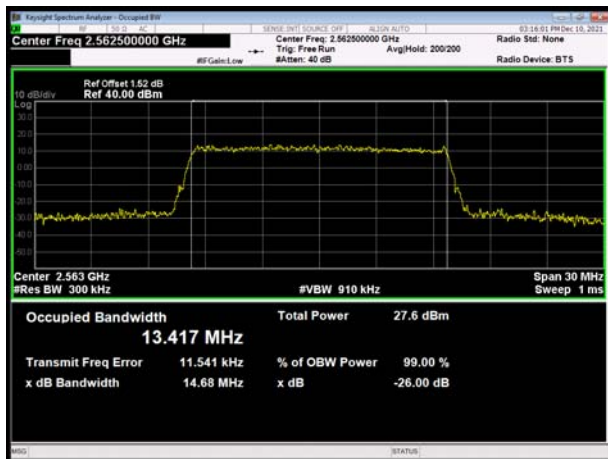
LTE Band 7 64QAM 15MHz CH-Middle



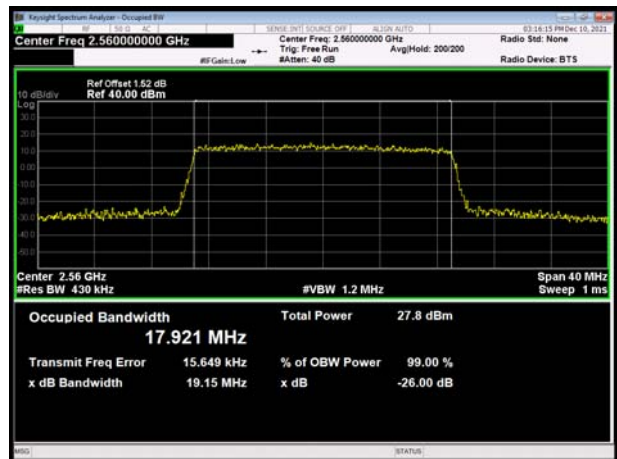
LTE Band 7 64QAM 20MHz CH-Middle



LTE Band 7 64QAM 15MHz CH-High



LTE Band 7 64QAM 20MHz CH-High

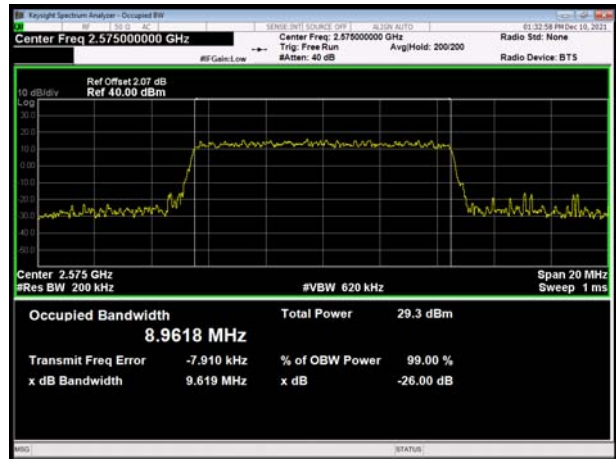




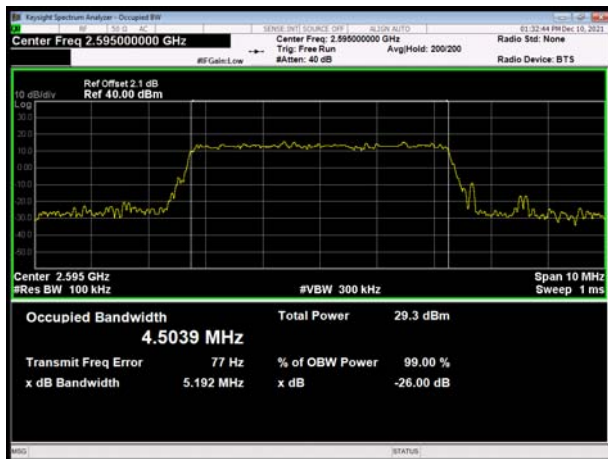
LTE Band 38 QPSK 5MHz CH-Low



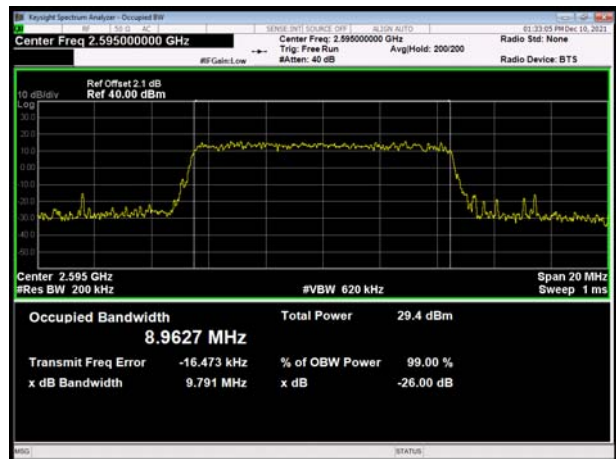
LTE Band 38 QPSK 10MHz CH-Low



LTE Band 38 QPSK 5MHz CH-Middle



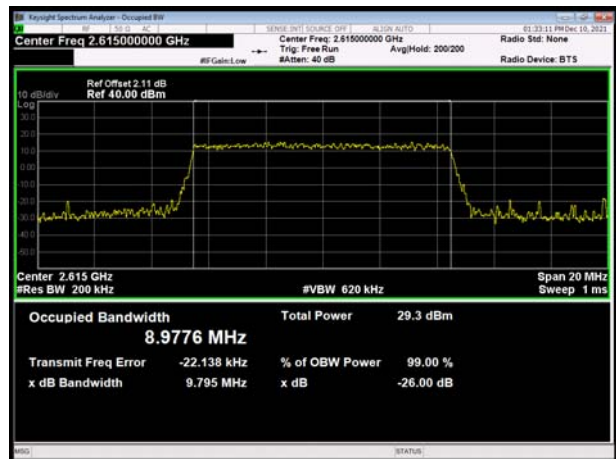
LTE Band 38 QPSK 10MHz CH-Middle



LTE Band 38 QPSK 5MHz CH-High

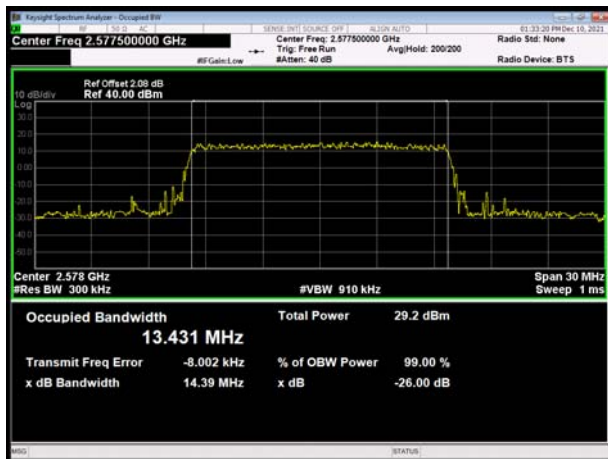


LTE Band 38 QPSK 10MHz CH-High

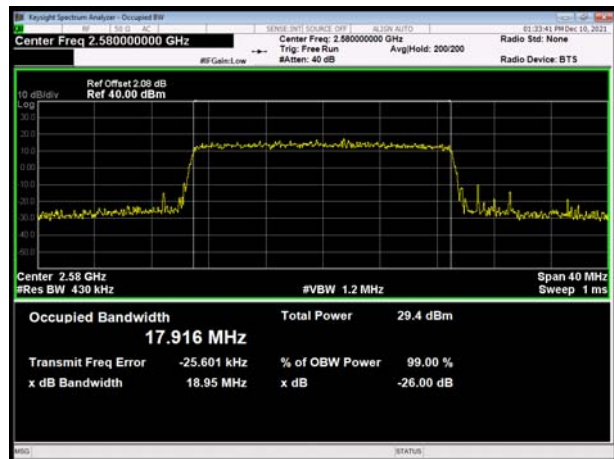




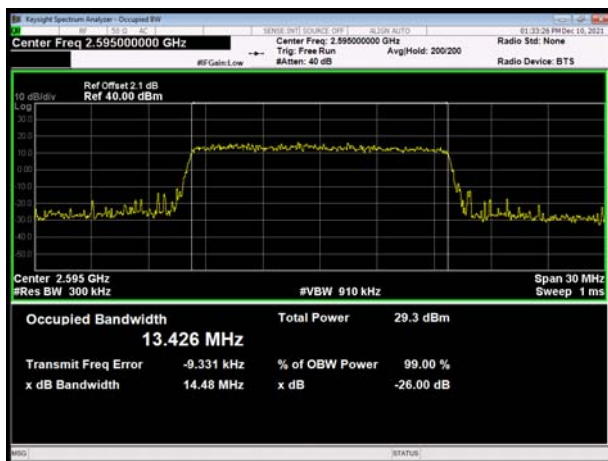
LTE Band 38 QPSK 15MHz CH-Low



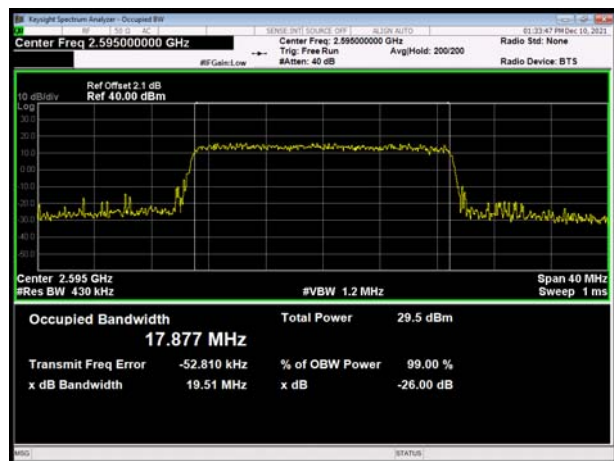
LTE Band 38 QPSK 20MHz CH-Low



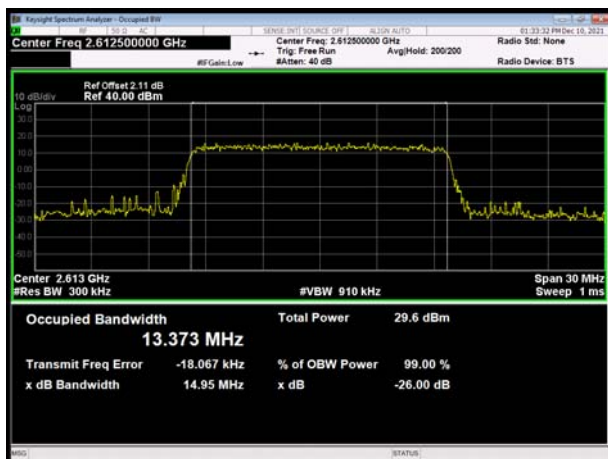
LTE Band 38 QPSK 15MHz CH-Middle



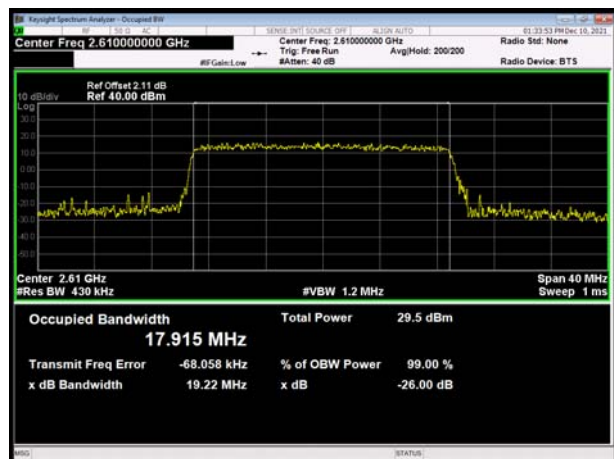
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High

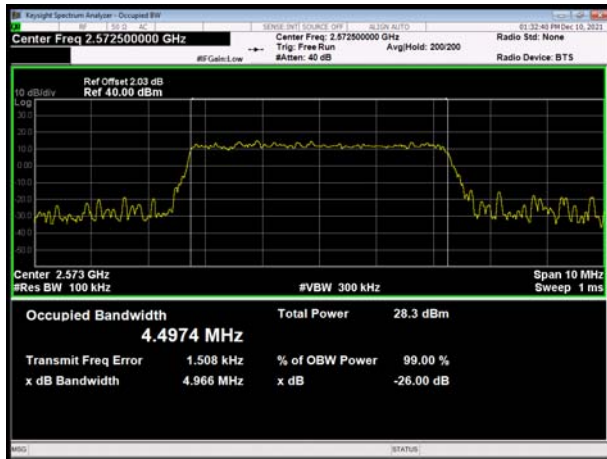


LTE Band 38 QPSK 20MHz CH-High

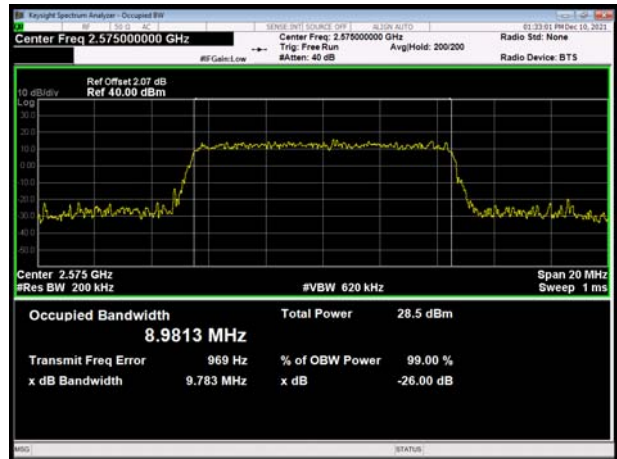




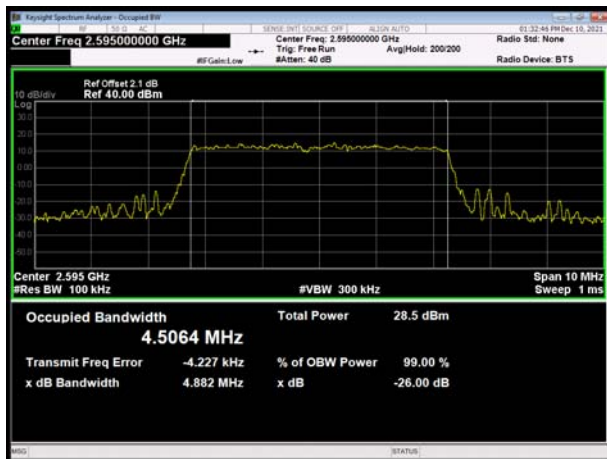
LTE Band 38 16QAM 5MHz CH-Low



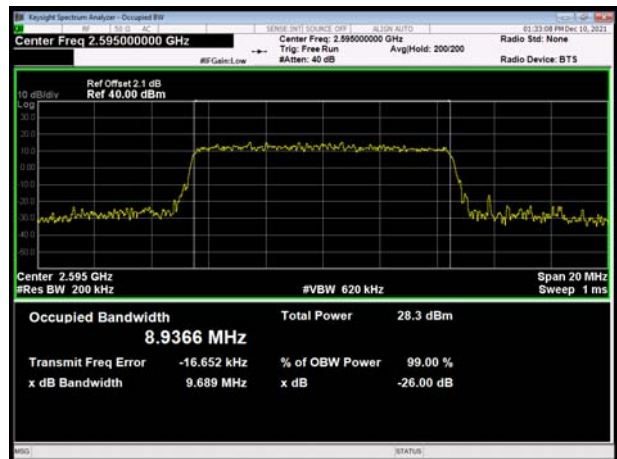
LTE Band 38 16QAM 10MHz CH-Low



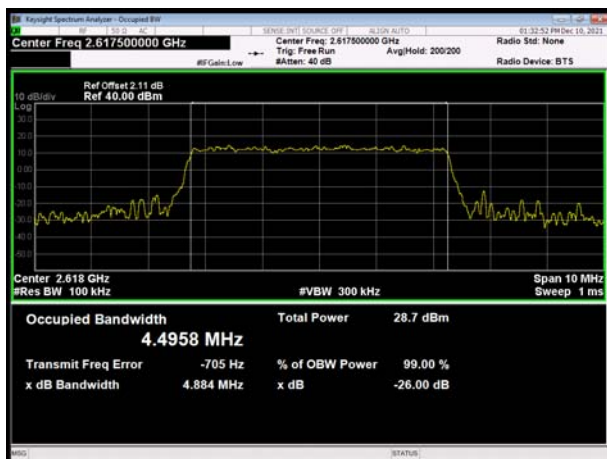
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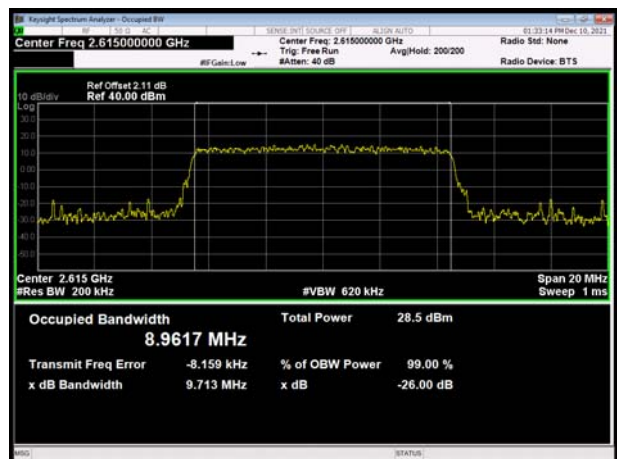
LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High

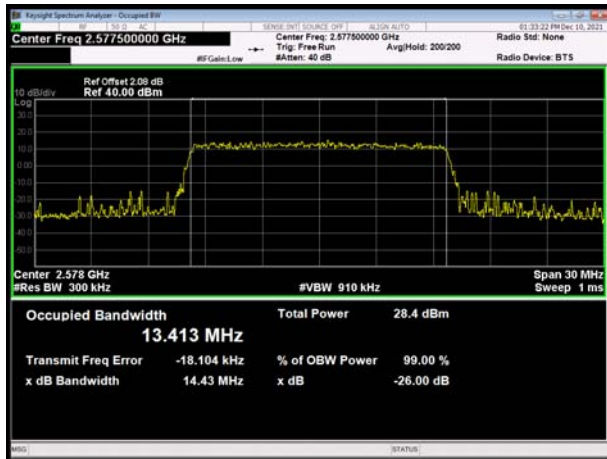


LTE Band 38 16QAM 10MHz CH-High

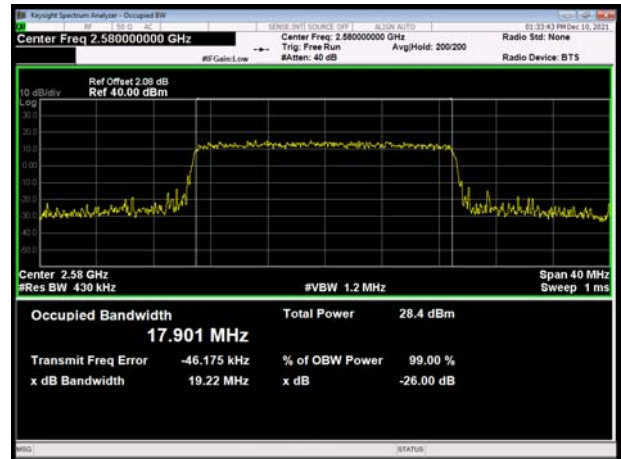




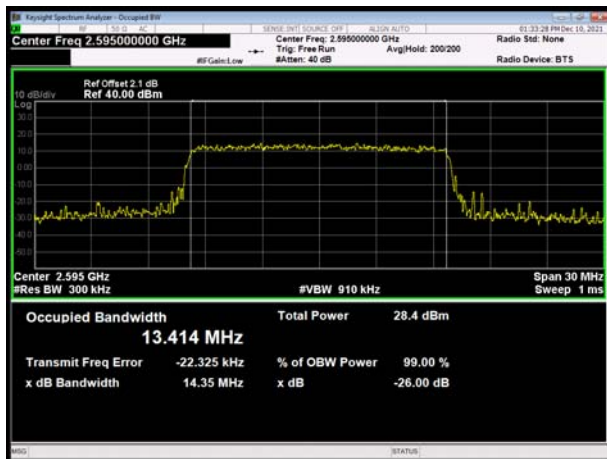
LTE Band 38 16QAM 15MHz CH-Low



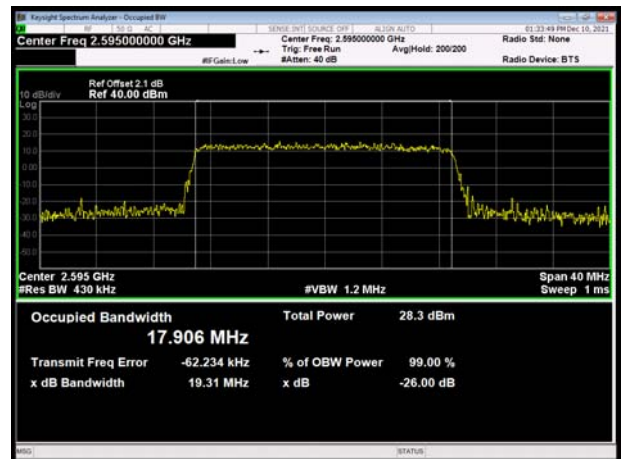
LTE Band 38 16QAM 20MHz CH-Low



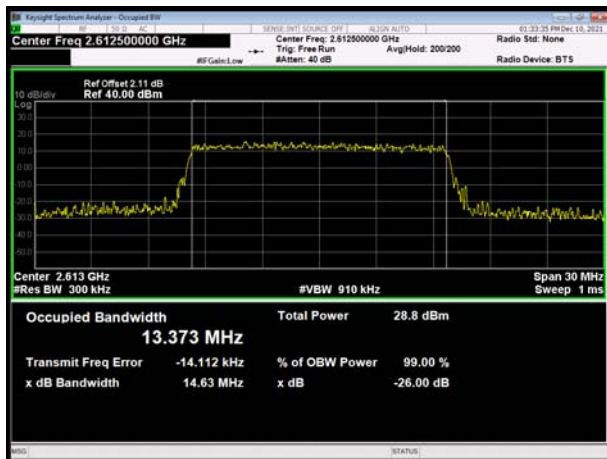
LTE Band 38 16QAM 15MHz CH-Middle



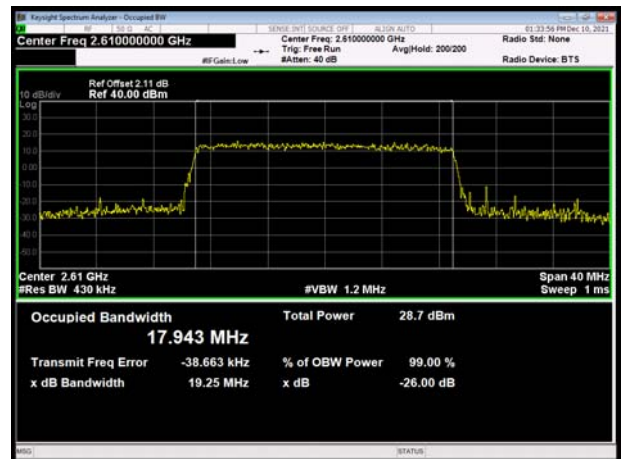
LTE Band 38 16QAM 20MHz CH-Middle



LTE Band 38 16QAM 15MHz CH-High

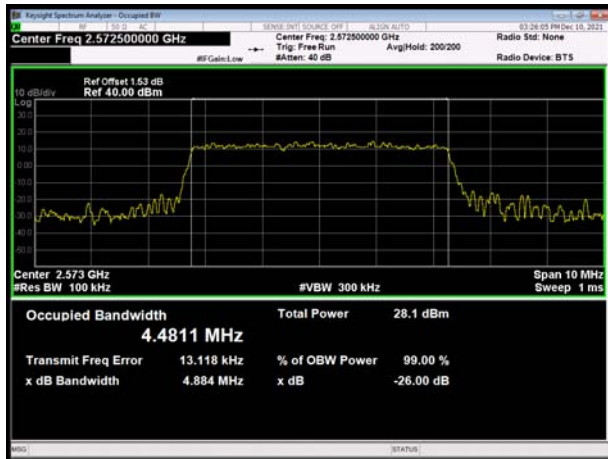


LTE Band 38 16QAM 20MHz CH-High

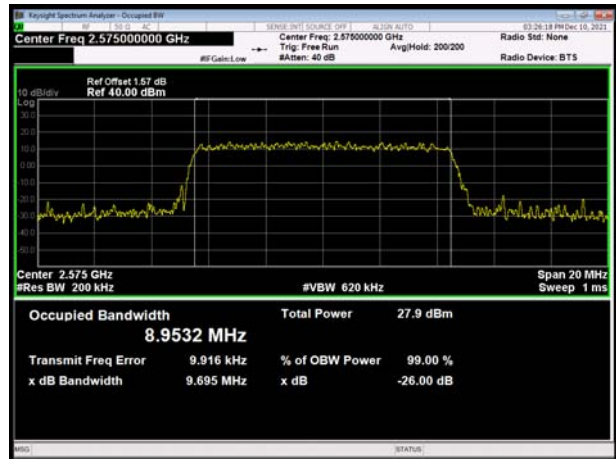




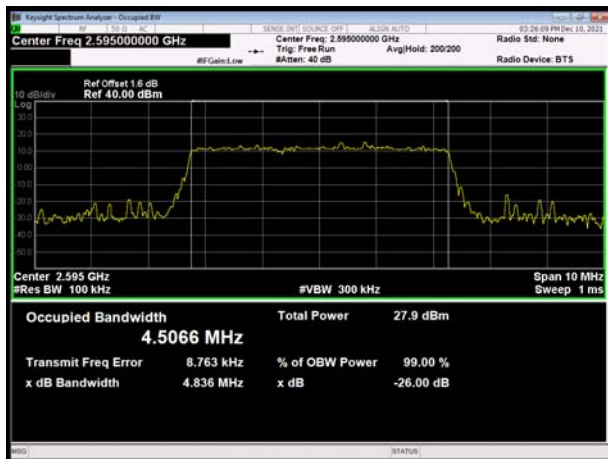
LTE Band 38 64QAM 5MHz CH-Low



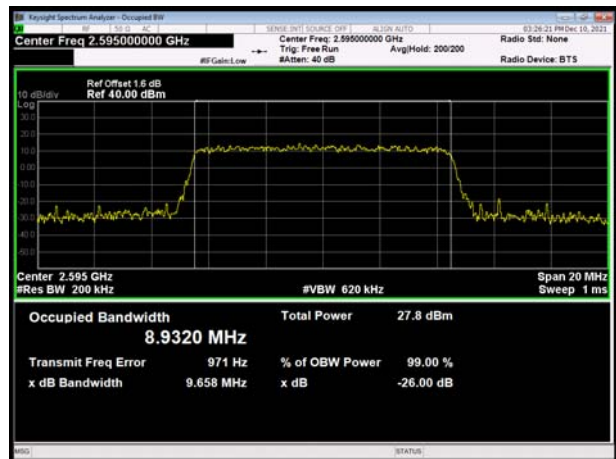
LTE Band 38 64QAM 10MHz CH-Low



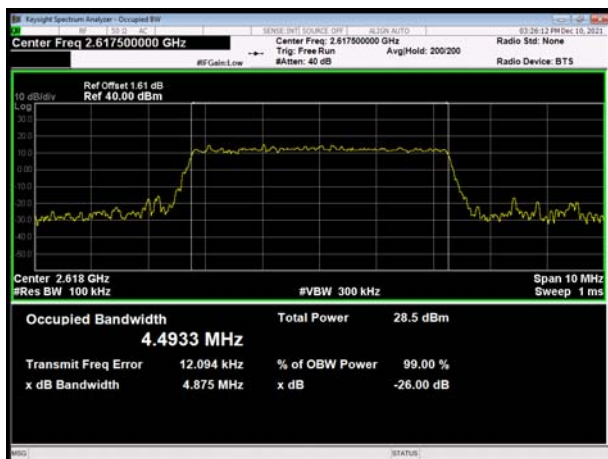
LTE Band 38 64QAM 5MHz CH-Middle



LTE Band 38 64QAM 10MHz CH-Middle



LTE Band 38 64QAM 5MHz CH-High



LTE Band 38 64QAM 10MHz CH-High

