



RF TEST REPORT

Applicant Xiaomi Communications Co., Ltd.
FCC ID 2AFZZJ20SG
Product Mobile Phone
Brand POCO
Model M2102J20SG
Report No. R2012A0844-R3
Issue Date January 19, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2019)/ FCC CFR47 Part 27C (2019)**. 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 19, 2020 ~January 12, 2021

Date of Sample Received: December 14, 2020

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	M2102J20SG		
IMEI	IMEI 1:864460050016600 IMEI 2:864460050016618		
Hardware Version	P1		
Software Version	MIUI12		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Main Antenna Gain(dBi)	Diversity Antenna Gain(dBi)
	WCDMA Band IV	-0.5	-4.2
	LTE Band 4	-2.3	-4.2
	LTE Band 7/ CA-7C	0.3	-1.6
	LTE Band 38/ CA-38C	-0.5	-3
	LTE Band 41	0.5	-1.6
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/41; CA-7C, CA-38C;		
Test Modulation	(WCDMA) BPSK, QPSK,16QAM; (LTE)QPSK, 16QAM, 64QAM;		
HSDPA UE Category	24		
HSUPA UE Category	6		
LTE Category	18		
Maximum E.I.R.P.	WCDMA Band IV:	18.68dBm	
	LTE Band 4:	22.33dBm	
	LTE Band 7:	24.94dBm	
	LTE Band 38:	24.12dBm	
	LTE Band 41:	25.09dBm	
	CA-7C:	25.74dBm	
	CA-38C:	23.81dBm	



Rated Power Supply Voltage	3.87V		
Extreme Voltage	Minimum: 3.29V Maximum: 4.45V		
Extreme Temperature	Lowest: -30°C Highest: +50°C		
Operating Voltage	Minimum: 3.6V Maximum: 4.4V		
Operating Temperature	Lowest: 0°C Highest: +40°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 27C (2019)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2019)

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 (X 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 4/7/38/41:

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	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 41	-	-	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	O	O
	LTE 41	-	-	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	-	O
	LTE 41	-	-	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	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	O
	LTE 41	-	-	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	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 41	-	-	O	O	O	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 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.

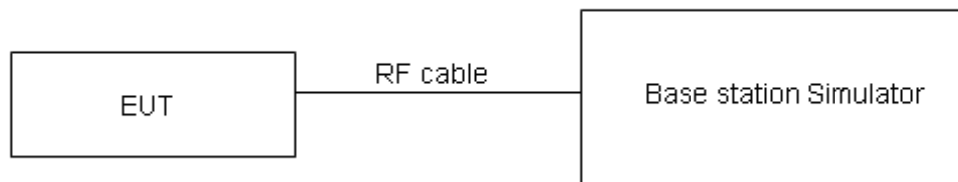
ERP can then be calculated as follows:

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

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	$\leq 1 \text{ W}$ (30 dBm)
Part 27.50(h)(2) Limit	$\leq 2 \text{ W}$ (33 dBm)

Measurement Uncertainty

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

Test Results

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)					
					Main Antenna			Diversity Antenna		
		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		24.36	24.28	24.06	22.06	21.98	21.76	20.16	20.08	19.86
HSDPA	Sub - Test 1	23.46	23.38	23.21	21.16	21.08	20.91	19.26	19.18	19.01
	Sub - Test 2	23.46	23.37	23.22	21.16	21.07	20.92	19.26	19.17	19.02
	Sub - Test 3	22.92	22.86	22.69	20.62	20.56	20.39	18.72	18.66	18.49
	Sub - Test 4	22.96	22.87	22.68	20.66	20.57	20.38	18.76	18.67	18.48
HSUPA	Sub - Test 1	23.43	23.38	23.27	21.13	21.08	20.97	19.23	19.18	19.07
	Sub - Test 2	21.46	21.37	21.28	19.16	19.07	18.98	17.26	17.17	17.08
	Sub - Test 3	22.45	22.38	22.24	20.15	20.08	19.94	18.25	18.18	18.04
	Sub - Test 4	21.43	21.37	21.27	19.13	19.07	18.97	17.23	17.17	17.07
	Sub - Test 5	23.45	23.38	23.25	21.15	21.08	20.95	19.25	19.18	19.05
DC-HSDPA	Sub - Test 1	23.20	23.52	23.16	20.90	21.22	20.86	19.00	19.32	18.96
	Sub - Test 2	22.91	23.13	22.94	20.61	20.83	20.64	18.71	18.93	18.74
	Sub - Test 3	22.89	22.93	22.86	20.59	20.63	20.56	18.69	18.73	18.66
	Sub - Test 4	22.85	23.00	22.80	20.55	20.70	20.50	18.65	18.80	18.60
HSPA+	16QAM	21.61	21.68	21.77	19.31	19.38	19.47	17.41	17.48	17.57



LTE Band 4				Maximum Output Power (dBm)			EIRP (dBm)					
			Main Antenna				Diversity Antenna					
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	24.54	24.50	24.59	22.24	22.20	22.29	20.34	20.30	20.39
		1	2	24.43	24.39	24.43	22.13	22.09	22.13	20.23	20.19	20.23
		1	5	24.49	24.48	24.55	22.19	22.18	22.25	20.29	20.28	20.35
		3	0	24.59	24.54	24.63	22.29	22.24	22.33	20.39	20.34	20.43
		3	2	24.44	24.40	24.48	22.14	22.10	22.18	20.24	20.20	20.28
		3	3	24.58	24.53	24.59	22.28	22.23	22.29	20.38	20.33	20.39
		6	0	23.71	23.66	23.74	21.41	21.36	21.44	19.51	19.46	19.54
	16QAM	1	0	23.81	23.77	23.84	21.51	21.47	21.54	19.61	19.57	19.64
		1	2	23.84	23.82	23.85	21.54	21.52	21.55	19.64	19.62	19.65
		1	5	23.78	23.75	23.82	21.48	21.45	21.52	19.58	19.55	19.62
		3	0	23.85	23.81	23.86	21.55	21.51	21.56	19.65	19.61	19.66
		3	2	23.85	23.83	23.91	21.55	21.53	21.61	19.65	19.63	19.71
		3	3	23.85	23.80	23.89	21.55	21.50	21.59	19.65	19.60	19.69
		6	0	22.73	22.69	22.77	20.43	20.39	20.47	18.53	18.49	18.57
	64QAM	1	0	23.84	23.80	23.87	21.54	21.50	21.57	19.64	19.60	19.67
		1	2	23.80	23.78	23.81	21.50	21.48	21.51	19.60	19.58	19.61
		1	5	23.82	23.76	23.83	21.52	21.46	21.53	19.62	19.56	19.63
		3	0	23.90	23.82	23.87	21.60	21.52	21.57	19.70	19.62	19.67
		3	2	23.86	23.82	23.90	21.56	21.52	21.60	19.66	19.62	19.70
		3	3	23.86	23.81	23.90	21.56	21.51	21.60	19.66	19.61	19.70
		6	0	22.75	22.71	22.79	20.45	20.41	20.49	18.55	18.51	18.59
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	24.46	24.55	24.39	22.16	22.25	22.09	20.26	20.35	20.19
		1	7	24.37	24.39	24.29	22.07	22.09	21.99	20.17	20.19	20.09
		1	14	24.44	24.54	24.06	22.14	22.24	21.76	20.24	20.34	19.86
		8	0	23.58	23.73	23.65	21.28	21.43	21.35	19.38	19.53	19.45
		8	4	23.59	23.78	23.67	21.29	21.48	21.37	19.39	19.58	19.47
		8	7	23.63	23.74	23.58	21.33	21.44	21.28	19.43	19.54	19.38
		15	0	23.56	23.78	23.66	21.26	21.48	21.36	19.36	19.58	19.46
	16QAM	1	0	23.85	23.79	23.86	21.55	21.49	21.56	19.65	19.59	19.66



		1	7	23.83	23.68	23.76	21.53	21.38	21.46	19.63	19.48	19.56
		1	14	23.84	23.79	23.79	21.54	21.49	21.49	19.64	19.59	19.59
		8	0	22.79	22.72	22.73	20.49	20.42	20.43	18.59	18.52	18.53
		8	4	22.88	22.77	22.82	20.58	20.47	20.52	18.68	18.57	18.62
		8	7	22.90	22.85	22.85	20.60	20.55	20.55	18.70	18.65	18.65
		15	0	22.75	22.70	22.72	20.45	20.40	20.42	18.55	18.50	18.52
		15	0	22.75	22.70	22.72	20.45	20.40	20.42	18.55	18.50	18.52
	64QAM	1	0	23.78	23.66	23.73	21.48	21.36	21.43	19.58	19.46	19.53
		1	7	23.97	23.82	23.90	21.67	21.52	21.60	19.77	19.62	19.70
		1	14	23.73	23.63	23.64	21.43	21.33	21.34	19.53	19.43	19.44
		8	0	22.88	22.79	22.84	20.58	20.49	20.54	18.68	18.59	18.64
		8	4	22.96	22.83	22.89	20.66	20.53	20.59	18.76	18.63	18.69
		8	7	22.86	22.81	22.81	20.56	20.51	20.51	18.66	18.61	18.61
		15	0	22.92	22.87	22.89	20.62	20.57	20.59	18.72	18.67	18.69
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	24.43	24.53	24.35	22.13	22.23	22.05	20.23	20.33	20.15
		1	13	24.35	24.35	24.26	22.05	22.05	21.96	20.15	20.15	20.06
		1	24	24.41	24.49	24.02	22.11	22.19	21.72	20.21	20.29	19.82
		12	0	23.55	23.68	23.61	21.25	21.38	21.31	19.35	19.48	19.41
		12	6	23.57	23.74	23.62	21.27	21.44	21.32	19.37	19.54	19.42
		12	13	23.61	23.72	23.54	21.31	21.42	21.24	19.41	19.52	19.34
		25	0	23.56	23.77	23.64	21.26	21.47	21.34	19.36	19.57	19.44
	16QAM	1	0	23.82	23.75	23.83	21.52	21.45	21.53	19.62	19.55	19.63
		1	13	23.80	23.66	23.73	21.50	21.36	21.43	19.60	19.46	19.53
		1	24	23.81	23.77	23.75	21.51	21.47	21.45	19.61	19.57	19.55
		12	0	22.77	22.68	22.70	20.47	20.38	20.40	18.57	18.48	18.50
		12	6	22.85	22.72	22.78	20.55	20.42	20.48	18.65	18.52	18.58
		12	13	22.87	22.80	22.81	20.57	20.50	20.51	18.67	18.60	18.61
		25	0	22.73	22.66	22.67	20.43	20.36	20.37	18.53	18.46	18.47
	64QAM	1	0	23.75	23.66	23.70	21.45	21.36	21.40	19.55	19.46	19.50
		1	13	23.94	23.84	23.87	21.64	21.54	21.57	19.74	19.64	19.67
		1	24	23.74	23.61	23.60	21.44	21.31	21.30	19.54	19.41	19.40
		12	0	22.86	22.75	22.85	20.56	20.45	20.55	18.66	18.55	18.65
		12	6	22.93	22.78	22.85	20.63	20.48	20.55	18.73	18.58	18.65
		12	13	22.83	22.76	22.77	20.53	20.46	20.47	18.63	18.56	18.57
		25	0	22.90	22.83	22.84	20.60	20.53	20.54	18.70	18.63	18.64



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
10MHz	QPSK	1	0	24.45	24.54	24.38	22.15	22.24	22.08	20.25	20.34	20.18
		1	25	24.38	24.40	24.30	22.08	22.10	22.00	20.18	20.20	20.10
		1	49	24.43	24.53	24.05	22.13	22.23	21.75	20.23	20.33	19.85
		25	0	23.58	23.73	23.65	21.28	21.43	21.35	19.38	19.53	19.45
		25	13	23.60	23.79	23.66	21.30	21.49	21.36	19.40	19.59	19.46
		25	25	23.63	23.76	23.59	21.33	21.46	21.29	19.43	19.56	19.39
		50	0	23.60	23.79	23.68	21.30	21.49	21.38	19.40	19.59	19.48
	16QAM	1	0	23.84	23.78	23.85	21.54	21.48	21.55	19.64	19.58	19.65
		1	25	23.83	23.70	23.76	21.53	21.40	21.46	19.63	19.50	19.56
		1	49	23.84	23.79	23.78	21.54	21.49	21.48	19.64	19.59	19.58
		25	0	22.80	22.73	22.74	20.50	20.43	20.44	18.60	18.53	18.54
		25	13	22.87	22.76	22.81	20.57	20.46	20.51	18.67	18.56	18.61
		25	25	22.90	22.85	22.85	20.60	20.55	20.55	18.70	18.65	18.65
		50	0	22.76	22.71	22.71	20.46	20.41	20.41	18.56	18.51	18.51
	64QAM	1	0	23.77	23.65	23.72	21.47	21.35	21.42	19.57	19.45	19.52
		1	25	23.97	23.84	23.90	21.67	21.54	21.60	19.77	19.64	19.70
		1	49	23.73	23.63	23.63	21.43	21.33	21.33	19.53	19.43	19.43
		25	0	22.89	22.80	22.85	20.59	20.50	20.55	18.69	18.60	18.65
		25	13	22.95	22.82	22.88	20.65	20.52	20.58	18.75	18.62	18.68
		25	25	22.86	22.81	22.81	20.56	20.51	20.51	18.66	18.61	18.61
		50	0	22.93	22.88	22.88	20.63	20.58	20.58	18.73	18.68	18.68
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
15MHz	QPSK	1	0	24.44	24.50	24.36	22.14	22.20	22.06	20.24	20.30	20.16
		1	38	24.36	24.39	24.27	22.06	22.09	21.97	20.16	20.19	20.07
		1	74	24.40	24.48	24.01	22.10	22.18	21.71	20.20	20.28	19.81
		36	0	23.56	23.69	23.62	21.26	21.39	21.32	19.36	19.49	19.42
		36	18	23.57	23.74	23.62	21.27	21.44	21.32	19.37	19.54	19.42
		36	39	23.60	23.73	23.55	21.30	21.43	21.25	19.40	19.53	19.35
		75	0	23.58	23.75	23.63	21.28	21.45	21.33	19.38	19.55	19.43
	16QAM	1	0	23.79	23.76	23.83	21.49	21.46	21.53	19.59	19.56	19.63
		1	38	23.81	23.67	23.74	21.51	21.37	21.44	19.61	19.47	19.54
		1	74	23.81	23.75	23.75	21.51	21.45	21.45	19.61	19.55	19.55



		36	0	22.77	22.71	22.71	20.47	20.41	20.41	18.57	18.51	18.51
		36	18	22.84	22.71	22.77	20.54	20.41	20.47	18.64	18.51	18.57
		36	39	22.88	22.81	22.82	20.58	20.51	20.52	18.68	18.61	18.62
		75	0	22.73	22.66	22.67	20.43	20.36	20.37	18.53	18.46	18.47
	64QAM	1	0	23.72	23.63	23.70	21.42	21.33	21.40	19.52	19.43	19.50
		1	38	23.95	23.81	23.88	21.65	21.51	21.58	19.75	19.61	19.68
		1	74	23.74	23.62	23.64	21.44	21.32	21.34	19.54	19.42	19.44
		36	0	22.88	22.82	22.86	20.58	20.52	20.56	18.68	18.62	18.66
		36	18	22.93	22.79	22.87	20.63	20.49	20.57	18.73	18.59	18.67
		36	39	22.84	22.77	22.78	20.54	20.47	20.48	18.64	18.57	18.58
		75	0	22.90	22.83	22.84	20.60	20.53	20.54	18.70	18.63	18.64
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
20MHz	QPSK	1	0	24.41	24.46	24.33	22.11	22.16	22.03	20.21	20.26	20.13
		1	50	24.35	24.35	24.25	22.05	22.05	21.95	20.15	20.15	20.05
		1	99	24.38	24.47	23.98	22.08	22.17	21.68	20.18	20.27	19.78
		50	0	23.53	23.64	23.58	21.23	21.34	21.28	19.33	19.44	19.38
		50	25	23.55	23.70	23.59	21.25	21.40	21.29	19.35	19.50	19.39
		50	50	23.57	23.68	23.51	21.27	21.38	21.21	19.37	19.48	19.31
		100	0	23.55	23.70	23.59	21.25	21.40	21.29	19.35	19.50	19.39
	16QAM	1	0	23.75	23.72	23.78	21.45	21.42	21.48	19.55	19.52	19.58
		1	50	23.77	23.65	23.70	21.47	21.35	21.40	19.57	19.45	19.50
		1	99	23.79	23.72	23.73	21.49	21.42	21.43	19.59	19.52	19.53
		50	0	22.74	22.67	22.68	20.44	20.37	20.38	18.54	18.47	18.48
		50	25	22.81	22.69	22.74	20.51	20.39	20.44	18.61	18.49	18.54
		50	50	22.85	22.76	22.78	20.55	20.46	20.48	18.65	18.56	18.58
		100	0	22.71	22.62	22.64	20.41	20.32	20.34	18.51	18.42	18.44
	64QAM	1	0	23.70	23.59	23.65	21.40	21.29	21.35	19.50	19.39	19.45
		1	50	23.91	23.79	23.84	21.61	21.49	21.54	19.71	19.59	19.64
		1	99	23.68	23.56	23.58	21.38	21.26	21.28	19.48	19.36	19.38
		50	0	22.83	22.74	22.79	20.53	20.44	20.49	18.63	18.54	18.59
		50	25	22.89	22.75	22.81	20.59	20.45	20.51	18.69	18.55	18.61
		50	50	22.81	22.72	22.74	20.51	20.42	20.44	18.61	18.52	18.54
		100	0	22.88	22.79	22.81	20.58	20.49	20.51	18.68	18.59	18.61



LTE Band 7				Maximum Output Power (dBm)			EIRP (dBm)					
			Main Antenna				Diversity Antenna					
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	24.35	24.37	24.61	24.65	24.67	24.91	22.75	22.77	23.01
		1	13	24.30	24.32	24.55	24.60	24.62	24.85	22.70	22.72	22.95
		1	24	24.57	24.38	24.57	24.87	24.68	24.87	22.97	22.78	22.97
		12	0	23.49	23.66	23.72	23.79	23.96	24.02	21.89	22.06	22.12
		12	6	23.60	23.69	23.83	23.90	23.99	24.13	22.00	22.09	22.23
		12	13	23.67	23.68	23.73	23.97	23.98	24.03	22.07	22.08	22.13
		25	0	23.62	23.79	23.73	23.92	24.09	24.03	22.02	22.19	22.13
	16QAM	1	0	23.49	23.50	23.68	23.79	23.80	23.98	21.89	21.90	22.08
		1	13	23.47	23.52	23.58	23.77	23.82	23.88	21.87	21.92	21.98
		1	24	23.51	23.63	23.70	23.81	23.93	24.00	21.91	22.03	22.10
		12	0	22.71	22.78	22.93	23.01	23.08	23.23	21.11	21.18	21.33
		12	6	22.79	22.91	23.00	23.09	23.21	23.30	21.19	21.31	21.40
		12	13	22.65	22.75	22.84	22.95	23.05	23.14	21.05	21.15	21.24
		25	0	22.57	22.76	22.79	22.87	23.06	23.09	20.97	21.16	21.19
	64QAM	1	0	23.61	23.72	23.81	23.91	24.02	24.11	22.01	22.12	22.21
		1	13	23.57	23.65	23.69	23.87	23.95	23.99	21.97	22.05	22.09
		1	24	23.53	23.59	23.68	23.83	23.89	23.98	21.93	21.99	22.08
		12	0	22.74	22.78	22.93	23.04	23.08	23.23	21.14	21.18	21.33
		12	6	22.82	22.89	22.92	23.12	23.19	23.22	21.22	21.29	21.32
		12	13	22.66	22.77	22.90	22.96	23.07	23.20	21.06	21.17	21.30
		25	0	22.62	22.77	22.84	22.92	23.07	23.14	21.02	21.17	21.24
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	24.37	24.38	24.64	24.67	24.68	24.94	22.77	22.78	23.04
		1	25	24.33	24.37	24.59	24.63	24.67	24.89	22.73	22.77	22.99
		1	49	24.59	24.42	24.60	24.89	24.72	24.90	22.99	22.82	23.00
		25	0	23.52	23.71	23.76	23.82	24.01	24.06	21.92	22.11	22.16
		25	13	23.63	23.74	23.87	23.93	24.04	24.17	22.03	22.14	22.27
		25	25	23.69	23.72	23.78	23.99	24.02	24.08	22.09	22.12	22.18
		50	0	23.66	23.81	23.77	23.96	24.11	24.07	22.06	22.21	22.17



	16QAM	1	0	23.51	23.53	23.70	23.81	23.83	24.00	21.91	21.93	22.10
		1	25	23.50	23.56	23.61	23.80	23.86	23.91	21.90	21.96	22.01
		1	49	23.54	23.65	23.73	23.84	23.95	24.03	21.94	22.05	22.13
		25	0	22.74	22.83	22.97	23.04	23.13	23.27	21.14	21.23	21.37
		25	13	22.81	22.95	23.03	23.11	23.25	23.33	21.21	21.35	21.43
		25	25	22.68	22.80	22.88	22.98	23.10	23.18	21.08	21.20	21.28
		50	0	22.60	22.81	22.83	22.90	23.11	23.13	21.00	21.21	21.23
	64QAM	1	0	23.63	23.71	23.83	23.93	24.01	24.13	22.03	22.11	22.23
		1	25	23.60	23.65	23.72	23.90	23.95	24.02	22.00	22.05	22.12
		1	49	23.52	23.61	23.71	23.82	23.91	24.01	21.92	22.01	22.11
		25	0	22.77	22.83	22.93	23.07	23.13	23.23	21.17	21.23	21.33
		25	13	22.84	22.93	22.80	23.14	23.23	23.10	21.24	21.33	21.20
		25	25	22.69	22.82	22.94	22.99	23.12	23.24	21.09	21.22	21.34
		50	0	22.65	22.82	22.88	22.95	23.12	23.18	21.05	21.22	21.28
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	24.36	24.34	24.62	24.66	24.64	24.92	22.76	22.74	23.02
		1	38	24.31	24.36	24.56	24.61	24.66	24.86	22.71	22.76	22.96
		1	74	24.56	24.37	24.56	24.86	24.67	24.86	22.96	22.77	22.96
		36	0	23.50	23.67	23.73	23.80	23.97	24.03	21.90	22.07	22.13
		36	18	23.60	23.69	23.83	23.90	23.99	24.13	22.00	22.09	22.23
		36	39	23.66	23.69	23.74	23.96	23.99	24.04	22.06	22.09	22.14
		75	0	23.64	23.77	23.72	23.94	24.07	24.02	22.04	22.17	22.12
	16QAM	1	0	23.46	23.51	23.68	23.76	23.81	23.98	21.86	21.91	22.08
		1	38	23.48	23.53	23.59	23.78	23.83	23.89	21.88	21.93	21.99
		1	74	23.51	23.61	23.70	23.81	23.91	24.00	21.91	22.01	22.10
		36	0	22.71	22.81	22.94	23.01	23.11	23.24	21.11	21.21	21.34
		36	18	22.78	22.90	22.99	23.08	23.20	23.29	21.18	21.30	21.39
		36	39	22.66	22.76	22.85	22.96	23.06	23.15	21.06	21.16	21.25
		75	0	22.57	22.76	22.79	22.87	23.06	23.09	20.97	21.16	21.19
	64QAM	1	0	23.58	23.69	23.81	23.88	23.99	24.11	21.98	22.09	22.21
		1	38	23.58	23.62	23.70	23.88	23.92	24.00	21.98	22.02	22.10
		1	74	23.53	23.60	23.72	23.83	23.90	24.02	21.93	22.00	22.12
		36	0	22.76	22.85	22.94	23.06	23.15	23.24	21.16	21.25	21.34
		36	18	22.82	22.90	22.86	23.12	23.20	23.16	21.22	21.30	21.26
		36	39	22.67	22.78	22.91	22.97	23.08	23.21	21.07	21.18	21.31



		75	0	22.62	22.77	22.84	22.92	23.07	23.14	21.02	21.17	21.24
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	24.33	24.30	24.59	24.63	24.60	24.89	22.73	22.70	22.99
		1	50	24.30	24.32	24.54	24.60	24.62	24.84	22.70	22.72	22.94
		1	99	24.54	24.36	24.53	24.84	24.66	24.83	22.94	22.76	22.93
		50	0	23.47	23.62	23.69	23.77	23.92	23.99	21.87	22.02	22.09
		50	25	23.58	23.65	23.80	23.88	23.95	24.10	21.98	22.05	22.20
		50	50	23.63	23.64	23.70	23.93	23.94	24.00	22.03	22.04	22.10
		100	0	23.61	23.72	23.68	23.91	24.02	23.98	22.01	22.12	22.08
	16QAM	1	0	23.41	23.47	23.63	23.71	23.77	23.93	21.81	21.87	22.03
		1	50	23.44	23.51	23.55	23.74	23.81	23.85	21.84	21.91	21.95
		1	99	23.49	23.58	23.68	23.79	23.88	23.98	21.89	21.98	22.08
		50	0	22.68	22.77	22.91	22.98	23.07	23.21	21.08	21.17	21.31
		50	25	22.75	22.88	22.96	23.05	23.18	23.26	21.15	21.28	21.36
		50	50	22.63	22.71	22.81	22.93	23.01	23.11	21.03	21.11	21.21
		100	0	22.55	22.72	22.76	22.85	23.02	23.06	20.95	21.12	21.16
	64QAM	1	0	23.56	23.65	23.76	23.86	23.95	24.06	21.96	22.05	22.16
		1	50	23.54	23.60	23.66	23.84	23.90	23.96	21.94	22.00	22.06
		1	99	23.47	23.54	23.66	23.77	23.84	23.96	21.87	21.94	22.06
		50	0	22.71	22.77	22.87	23.01	23.07	23.17	21.11	21.17	21.27
		50	25	22.78	22.86	22.90	23.08	23.16	23.20	21.18	21.26	21.30
		50	50	22.64	22.73	22.87	22.94	23.03	23.17	21.04	21.13	21.27
		100	0	22.60	22.73	22.81	22.90	23.03	23.11	21.00	21.13	21.21

LTE Band 38				Maximum Output Power (dBm)			EIRP (dBm)					
							Main Antenna			Diversity Antenna		
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	24.54	24.47	24.50	24.04	23.97	24.00	21.54	21.47	21.50
		1	13	24.34	24.42	24.58	23.84	23.92	24.08	21.34	21.42	21.58
		1	24	24.41	24.35	24.46	23.91	23.85	23.96	21.41	21.35	21.46
		12	0	23.46	23.63	23.68	22.96	23.13	23.18	20.46	20.63	20.68
		12	6	23.49	23.71	23.74	22.99	23.21	23.24	20.49	20.71	20.74
		12	13	23.65	23.70	23.61	23.15	23.20	23.11	20.65	20.70	20.61



	16QAM	25	0	23.65	23.63	23.74	23.15	23.13	23.24	20.65	20.63	20.74
		1	0	23.61	23.94	23.72	23.11	23.44	23.22	20.61	20.94	20.72
		1	13	23.59	23.58	23.53	23.09	23.08	23.03	20.59	20.58	20.53
		1	24	23.73	23.94	23.64	23.23	23.44	23.14	20.73	20.94	20.64
		12	0	22.69	22.76	22.55	22.19	22.26	22.05	19.69	19.76	19.55
		12	6	22.49	22.54	22.40	21.99	22.04	21.90	19.49	19.54	19.40
		12	13	22.61	22.79	22.50	22.11	22.29	22.00	19.61	19.79	19.50
		25	0	22.64	22.60	22.61	22.14	22.10	22.11	19.64	19.60	19.61
	64QAM	1	0	23.60	23.75	23.71	23.10	23.25	23.21	20.60	20.75	20.71
		1	13	23.50	23.75	23.43	23.00	23.25	22.93	20.50	20.75	20.43
		1	24	23.64	23.75	23.48	23.14	23.25	22.98	20.64	20.75	20.48
		12	0	22.67	22.79	22.59	22.17	22.29	22.09	19.67	19.79	19.59
		12	6	22.64	22.84	22.51	22.14	22.34	22.01	19.64	19.84	19.51
		12	13	22.62	22.73	22.50	22.12	22.23	22.00	19.62	19.73	19.50
		25	0	22.55	22.63	22.47	22.05	22.13	21.97	19.55	19.63	19.47
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
10MHz	QPSK	1	0	24.56	24.48	24.53	24.06	23.98	24.03	21.56	21.48	21.53
		1	25	24.37	24.47	24.62	23.87	23.97	24.12	21.37	21.47	21.62
		1	49	24.43	24.39	24.49	23.93	23.89	23.99	21.43	21.39	21.49
		25	0	23.49	23.68	23.72	22.99	23.18	23.22	20.49	20.68	20.72
		25	13	23.52	23.76	23.78	23.02	23.26	23.28	20.52	20.76	20.78
		25	25	23.67	23.74	23.66	23.17	23.24	23.16	20.67	20.74	20.66
		50	0	23.69	23.65	23.78	23.19	23.15	23.28	20.69	20.65	20.78
	16QAM	1	0	23.63	23.97	23.74	23.13	23.47	23.24	20.63	20.97	20.74
		1	25	23.62	23.62	23.56	23.12	23.12	23.06	20.62	20.62	20.56
		1	49	23.76	23.96	23.67	23.26	23.46	23.17	20.76	20.96	20.67
		25	0	22.72	22.81	22.59	22.22	22.31	22.09	19.72	19.81	19.59
		25	13	22.51	22.58	22.43	22.01	22.08	21.93	19.51	19.58	19.43
		25	25	22.64	22.84	22.54	22.14	22.34	22.04	19.64	19.84	19.54
		50	0	22.67	22.65	22.65	22.17	22.15	22.15	19.67	19.65	19.65
	64QAM	1	0	23.62	23.74	23.73	23.12	23.24	23.23	20.62	20.74	20.73
		1	25	23.53	23.75	23.46	23.03	23.25	22.96	20.53	20.75	20.46
		1	49	23.63	23.77	23.51	23.13	23.27	23.01	20.63	20.77	20.51
		25	0	22.70	22.84	22.59	22.20	22.34	22.09	19.70	19.84	19.59
		25	13	22.66	22.88	22.54	22.16	22.38	22.04	19.66	19.88	19.54



		25	25	22.65	22.78	22.54	22.15	22.28	22.04	19.65	19.78	19.54
		50	0	22.58	22.68	22.51	22.08	22.18	22.01	19.58	19.68	19.51
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	24.55	24.44	24.51	24.05	23.94	24.01	21.55	21.44	21.51
		1	38	24.35	24.46	24.59	23.85	23.96	24.09	21.35	21.46	21.59
		1	74	24.40	24.34	24.45	23.90	23.84	23.95	21.40	21.34	21.45
		36	0	23.47	23.64	23.69	22.97	23.14	23.19	20.47	20.64	20.69
		36	18	23.49	23.71	23.74	22.99	23.21	23.24	20.49	20.71	20.74
		36	39	23.64	23.71	23.62	23.14	23.21	23.12	20.64	20.71	20.62
		75	0	23.67	23.61	23.73	23.17	23.11	23.23	20.67	20.61	20.73
	16QAM	1	0	23.58	23.95	23.72	23.08	23.45	23.22	20.58	20.95	20.72
		1	38	23.60	23.59	23.54	23.10	23.09	23.04	20.60	20.59	20.54
		1	74	23.73	23.92	23.64	23.23	23.42	23.14	20.73	20.92	20.64
		36	0	22.69	22.79	22.56	22.19	22.29	22.06	19.69	19.79	19.56
		36	18	22.48	22.53	22.39	21.98	22.03	21.89	19.48	19.53	19.39
		36	39	22.62	22.80	22.51	22.12	22.30	22.01	19.62	19.80	19.51
		75	0	22.64	22.60	22.61	22.14	22.10	22.11	19.64	19.60	19.61
	64QAM	1	0	23.57	23.72	23.71	23.07	23.22	23.21	20.57	20.72	20.71
		1	38	23.51	23.72	23.44	23.01	23.22	22.94	20.51	20.72	20.44
		1	74	23.64	23.76	23.52	23.14	23.26	23.02	20.64	20.76	20.52
		36	0	22.69	22.86	22.60	22.19	22.36	22.10	19.69	19.86	19.60
		36	18	22.64	22.85	22.53	22.14	22.35	22.03	19.64	19.85	19.53
		36	39	22.63	22.74	22.51	22.13	22.24	22.01	19.63	19.74	19.51
		75	0	22.55	22.63	22.47	22.05	22.13	21.97	19.55	19.63	19.47
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	24.52	24.40	24.48	24.02	23.90	23.98	21.52	21.40	21.48
		1	50	24.34	24.42	24.57	23.84	23.92	24.07	21.34	21.42	21.57
		1	99	24.38	24.33	24.42	23.88	23.83	23.92	21.38	21.33	21.42
		50	0	23.44	23.59	23.65	22.94	23.09	23.15	20.44	20.59	20.65
		50	25	23.47	23.67	23.71	22.97	23.17	23.21	20.47	20.67	20.71
		50	50	23.61	23.66	23.58	23.11	23.16	23.08	20.61	20.66	20.58
		100	0	23.64	23.56	23.69	23.14	23.06	23.19	20.64	20.56	20.69
	16QAM	1	0	23.81	23.91	23.67	23.31	23.41	23.17	20.81	20.91	20.67



		1	50	23.56	23.57	23.50	23.06	23.07	23.00	20.56	20.57	20.50
		1	99	23.71	23.89	23.62	23.21	23.39	23.12	20.71	20.89	20.62
		50	0	22.66	22.75	22.53	22.16	22.25	22.03	19.66	19.75	19.53
		50	25	22.45	22.51	22.36	21.95	22.01	21.86	19.45	19.51	19.36
		50	50	22.59	22.75	22.47	22.09	22.25	21.97	19.59	19.75	19.47
		100	0	22.62	22.56	22.58	22.12	22.06	22.08	19.62	19.56	19.58
	64QAM	1	0	23.55	23.68	23.66	23.05	23.18	23.16	20.55	20.68	20.66
		1	50	23.47	23.70	23.40	22.97	23.20	22.90	20.47	20.70	20.40
		1	99	23.58	23.70	23.46	23.08	23.20	22.96	20.58	20.70	20.46
		50	0	22.64	22.78	22.53	22.14	22.28	22.03	19.64	19.78	19.53
		50	25	22.60	22.81	22.47	22.10	22.31	21.97	19.60	19.81	19.47
		50	50	22.60	22.69	22.47	22.10	22.19	21.97	19.60	19.69	19.47
		100	0	22.53	22.59	22.44	22.03	22.09	21.94	19.53	19.59	19.44

LTE Band 41				Maximum Output Power (dBm)			EIRP (dBm)					
							Main Antenna			Diversity Antenna		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40065 /2537.5	40640 /2595	41215 /2652.5	40065 /2537.5	40640 /2595	41215 /2652.5	40065 /2537.5	40640 /2595	41215 /2652.5
5MHz	QPSK	1	0	24.21	24.27	24.11	24.71	24.77	24.61	22.61	22.67	22.51
		1	13	24.56	24.23	24.08	25.06	24.73	24.58	22.96	22.63	22.48
		1	24	24.35	24.40	24.29	24.85	24.90	24.79	22.75	22.80	22.69
		12	0	23.41	23.57	23.45	23.91	24.07	23.95	21.81	21.97	21.85
		12	6	23.43	23.58	23.45	23.93	24.08	23.95	21.83	21.98	21.85
		12	13	23.40	23.50	23.35	23.90	24.00	23.85	21.80	21.90	21.75
		25	0	23.40	23.57	23.43	23.90	24.07	23.93	21.80	21.97	21.83
	16QAM	1	0	23.45	23.34	23.23	23.95	23.84	23.73	21.85	21.74	21.63
		1	13	23.43	23.37	23.22	23.93	23.87	23.72	21.83	21.77	21.62
		1	24	23.67	23.68	23.52	24.17	24.18	24.02	22.07	22.08	21.92
		12	0	22.53	22.48	22.34	23.03	22.98	22.84	20.93	20.88	20.74
		12	6	22.56	22.52	22.41	23.06	23.02	22.91	20.96	20.92	20.81
		12	13	22.63	22.62	22.50	23.13	23.12	23.00	21.03	21.02	20.90
		25	0	22.58	22.58	22.45	23.08	23.08	22.95	20.98	20.98	20.85
	64QAM	1	0	23.32	23.32	23.17	23.82	23.82	23.67	21.72	21.72	21.57
		1	13	23.18	23.16	22.97	23.68	23.66	23.47	21.58	21.56	21.37
		1	24	23.29	23.22	23.06	23.79	23.72	23.56	21.69	21.62	21.46
		12	0	22.62	22.55	22.45	23.12	23.05	22.95	21.02	20.95	20.85



		12	6	22.51	22.46	22.35	23.01	22.96	22.85	20.91	20.86	20.75
		12	13	22.58	22.57	22.45	23.08	23.07	22.95	20.98	20.97	20.85
		25	0	22.60	22.60	22.47	23.10	23.10	22.97	21.00	21.00	20.87
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40090 /2540	40640 /2595	41190 /2650	40090 /2540	40640 /2595	41190 /2650	40090 /2540	40640 /2595	41190 /2650
10MHz	QPSK	1	0	24.23	24.28	24.14	24.73	24.78	24.64	22.63	22.68	22.54
		1	25	24.59	24.28	24.12	25.09	24.78	24.62	22.99	22.68	22.52
		1	49	24.37	24.44	24.32	24.87	24.94	24.82	22.77	22.84	22.72
		25	0	23.44	23.62	23.49	23.94	24.12	23.99	21.84	22.02	21.89
		25	13	23.46	23.63	23.49	23.96	24.13	23.99	21.86	22.03	21.89
		25	25	23.42	23.54	23.40	23.92	24.04	23.90	21.82	21.94	21.80
		50	0	23.44	23.59	23.47	23.94	24.09	23.97	21.84	21.99	21.87
	16QAM	1	0	23.47	23.37	23.25	23.97	23.87	23.75	21.87	21.77	21.65
		1	25	23.46	23.41	23.25	23.96	23.91	23.75	21.86	21.81	21.65
		1	49	23.70	23.70	23.55	24.20	24.20	24.05	22.10	22.10	21.95
		25	0	22.56	22.53	22.38	23.06	23.03	22.88	20.96	20.93	20.78
		25	13	22.58	22.56	22.44	23.08	23.06	22.94	20.98	20.96	20.84
		25	25	22.66	22.67	22.54	23.16	23.17	23.04	21.06	21.07	20.94
		50	0	22.61	22.63	22.49	23.11	23.13	22.99	21.01	21.03	20.89
	64QAM	1	0	23.34	23.31	23.19	23.84	23.81	23.69	21.74	21.71	21.59
		1	25	23.21	23.16	23.00	23.71	23.66	23.50	21.61	21.56	21.40
		1	49	23.28	23.24	23.09	23.78	23.74	23.59	21.68	21.64	21.49
		25	0	22.65	22.60	22.45	23.15	23.10	22.95	21.05	21.00	20.85
		25	13	22.53	22.50	22.38	23.03	23.00	22.88	20.93	20.90	20.78
		25	25	22.61	22.62	22.49	23.11	23.12	22.99	21.01	21.02	20.89
		50	0	22.63	22.65	22.51	23.13	23.15	23.01	21.03	21.05	20.91
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40115 /2542.5	40640 /2595	41165 /2647.5	40115 /2542.5	40640 /2595	41165 /2647.5	40115 /2542.5	40640 /2595	41165 /2647.5
15MHz	QPSK	1	0	24.22	24.24	24.12	24.72	24.74	24.62	22.62	22.64	22.52
		1	38	24.57	24.27	24.09	25.07	24.77	24.59	22.97	22.67	22.49
		1	74	24.34	24.39	24.28	24.84	24.89	24.78	22.74	22.79	22.68
		36	0	23.42	23.58	23.46	23.92	24.08	23.96	21.82	21.98	21.86
		36	18	23.43	23.58	23.45	23.93	24.08	23.95	21.83	21.98	21.85
		36	39	23.39	23.51	23.36	23.89	24.01	23.86	21.79	21.91	21.76
		75	0	23.42	23.55	23.42	23.92	24.05	23.92	21.82	21.95	21.82



	16QAM	1	0	23.42	23.35	23.23	23.92	23.85	23.73	21.82	21.75	21.63
		1	38	23.44	23.38	23.23	23.94	23.88	23.73	21.84	21.78	21.63
		1	74	23.67	23.66	23.52	24.17	24.16	24.02	22.07	22.06	21.92
		36	0	22.53	22.51	22.35	23.03	23.01	22.85	20.93	20.91	20.75
		36	18	22.55	22.51	22.40	23.05	23.01	22.90	20.95	20.91	20.80
		36	39	22.64	22.63	22.51	23.14	23.13	23.01	21.04	21.03	20.91
		75	0	22.58	22.58	22.45	23.08	23.08	22.95	20.98	20.98	20.85
	64QAM	1	0	23.29	23.29	23.17	23.79	23.79	23.67	21.69	21.69	21.57
		1	38	23.19	23.13	22.98	23.69	23.63	23.48	21.59	21.53	21.38
		1	74	23.29	23.23	23.10	23.79	23.73	23.60	21.69	21.63	21.50
		36	0	22.64	22.62	22.46	23.14	23.12	22.96	21.04	21.02	20.86
		36	18	22.51	22.47	22.37	23.01	22.97	22.87	20.91	20.87	20.77
		36	39	22.59	22.58	22.46	23.09	23.08	22.96	20.99	20.98	20.86
		75	0	22.60	22.60	22.47	23.10	23.10	22.97	21.00	21.00	20.87
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40140 /2545	40640 /2595	41140 /2645	40140 /2545	40640 /2595	41140 /2645	40140 /2545	40640 /2595	41140 /2645
20MHz	QPSK	1	0	24.19	24.20	24.09	24.69	24.70	24.59	22.59	22.60	22.49
		1	50	24.56	24.23	24.07	25.06	24.73	24.57	22.96	22.63	22.47
		1	99	24.32	24.38	24.25	24.82	24.88	24.75	22.72	22.78	22.65
		50	0	23.39	23.53	23.42	23.89	24.03	23.92	21.79	21.93	21.82
		50	25	23.41	23.54	23.42	23.91	24.04	23.92	21.81	21.94	21.82
		50	50	23.36	23.46	23.32	23.86	23.96	23.82	21.76	21.86	21.72
		100	0	23.39	23.50	23.38	23.89	24.00	23.88	21.79	21.90	21.78
	16QAM	1	0	23.38	23.31	23.18	23.88	23.81	23.68	21.78	21.71	21.58
		1	50	23.40	23.36	23.19	23.90	23.86	23.69	21.80	21.76	21.59
		1	99	23.65	23.63	23.50	24.15	24.13	24.00	22.05	22.03	21.90
		50	0	22.50	22.47	22.32	23.00	22.97	22.82	20.90	20.87	20.72
		50	25	22.52	22.49	22.37	23.02	22.99	22.87	20.92	20.89	20.77
		50	50	22.61	22.58	22.47	23.11	23.08	22.97	21.01	20.98	20.87
		100	0	22.56	22.54	22.42	23.06	23.04	22.92	20.96	20.94	20.82
	64QAM	1	0	23.27	23.25	23.12	23.77	23.75	23.62	21.67	21.65	21.52
		1	50	23.15	23.11	22.94	23.65	23.61	23.44	21.55	21.51	21.34
		1	99	23.23	23.17	23.04	23.73	23.67	23.54	21.63	21.57	21.44
		50	0	22.59	22.54	22.39	23.09	23.04	22.89	20.99	20.94	20.79
		50	25	22.47	22.43	22.31	22.97	22.93	22.81	20.87	20.83	20.71
		50	50	22.56	22.53	22.42	23.06	23.03	22.92	20.96	20.93	20.82



		100	0	22.58	22.56	22.44	23.08	23.06	22.94	20.98	20.96	20.84
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CA_7C	PCC	SCC	PCC RB		SCC1 RB		Conducted Power (dBm)			EIRP (dBm)					
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	Main Antenna			Diversity Antenna		
10MHz+20MHz	2505.5	2519.9	1	49	1	0	25.32	24.70	24.16	25.62	25.00	24.46	23.72	23.10	22.86
			50	0	100	0	22.68	21.66	21.33	22.98	21.96	21.63	21.08	20.06	20.03
	2525.6	2540	1	49	1	0	25.17	24.48	24.02	25.47	24.78	24.32	23.57	22.88	22.72
			50	0	100	0	22.72	21.66	21.35	23.02	21.96	21.65	21.12	20.06	20.05
	2545.6	2560	1	49	1	0	25.07	24.19	22.96	25.37	24.49	23.26	23.47	22.59	21.66
			50	0	100	0	22.41	21.69	20.86	22.71	21.99	21.16	20.81	20.09	19.56
20MHz+10MHz	2510	2524.4	1	99	1	0	25.16	24.67	24.42	25.46	24.97	24.72	23.56	23.07	23.12
			100	0	50	0	22.85	21.76	21.50	23.15	22.06	21.80	21.25	20.16	20.20
	2530.1	2544.5	1	99	1	0	25.21	24.62	24.37	25.51	24.92	24.67	23.61	23.02	23.07
			100	0	50	0	22.92	21.87	21.52	23.22	22.17	21.82	21.32	20.27	20.22
	2550.1	2564.5	1	99	1	0	25.44	24.78	24.34	25.74	25.08	24.64	23.84	23.18	23.04
			100	0	50	0	22.95	21.86	21.53	23.25	22.16	21.83	21.35	20.26	20.23
15MHz+15MHz	2507.5	2522.5	1	74	1	0	24.92	24.42	24.27	25.22	24.72	24.57	23.32	22.82	22.97
			75	0	75	0	22.87	21.89	21.44	23.17	22.19	21.74	21.27	20.29	20.14
	2527.5	2542.5	1	74	1	0	25.07	24.62	24.22	25.37	24.92	24.52	23.47	23.02	22.92
			75	0	75	0	22.56	21.82	21.49	22.86	22.12	21.79	20.96	20.22	20.19
	2547.5	2562.5	1	74	1	0	24.97	24.29	23.67	25.27	24.59	23.97	23.37	22.69	22.37
			75	0	75	0	22.27	21.56	20.86	22.57	21.86	21.16	20.67	19.96	19.56
15MHz+20MHz	2507.8	2524.9	1	74	1	0	25.24	24.73	24.33	25.54	25.03	24.63	23.64	23.13	23.03
			75	0	100	0	22.78	21.71	21.39	23.08	22.01	21.69	21.18	20.11	20.09
	2525.3	2542.4	1	74	1	0	25.08	24.56	24.35	25.38	24.86	24.65	23.48	22.96	23.05
			75	0	100	0	22.74	21.79	21.42	23.04	22.09	21.72	21.14	20.19	20.12
	2542.9	2560	1	74	1	0	24.19	23.65	23.57	24.49	23.95	23.87	22.59	22.05	22.27
			75	0	100	0	22.31	21.62	21.29	22.61	21.92	21.59	20.71	20.02	19.99
20MHz+15MHz	2510	2527.1	1	99	1	0	25.24	24.73	24.41	25.54	25.03	24.71	23.64	23.13	23.11
			100	0	75	0	22.83	21.76	21.49	23.13	22.06	21.79	21.23	20.16	20.19
	2527.6	2544.7	1	99	1	0	25.13	24.76	24.45	25.43	25.06	24.75	23.53	23.16	23.15
			100	0	75	0	22.92	21.87	21.61	23.22	22.17	21.91	21.32	20.27	20.31
	2545.1	2562.2	1	99	1	0	25.33	24.62	23.81	25.63	24.92	24.11	23.73	23.02	22.51
			100	0	75	0	22.68	21.75	21.17	22.98	22.05	21.47	21.08	20.15	19.87
20MHz+20MHz	2510	2529.8	1	99	1	0	25.31	24.66	24.31	25.61	24.96	24.61	23.71	23.06	23.01
			1	0	1	99	15.95	16.31	15.99	16.25	16.61	16.29	14.35	14.71	14.69
			100	0	100	0	22.68	21.65	21.35	22.98	21.95	21.65	21.08	20.05	20.05
	2525.1	2544.9	1	99	1	0	25.36	24.85	24.11	25.66	25.15	24.41	23.76	23.25	22.81
			1	0	1	99	16.19	16.59	15.82	16.49	16.89	16.12	14.59	14.99	14.52
			100	0	100	0	22.85	21.83	21.46	23.15	22.13	21.76	21.25	20.23	20.16
	2540.2	2560	1	99	1	0	23.80	23.47	23.41	24.10	23.77	23.71	22.20	21.87	22.11



			1	0	1	99	16.13	16.50	16.19	16.43	16.80	16.49	14.53	14.90	14.89
			100	0	100	0	22.72	21.73	21.35	23.02	22.03	21.65	21.12	20.13	20.05

CA_38C	PCC	SCC	PCC RB		SCC1 RB		Conducted Power (dBm)			EIRP (dBm)					
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	Main Antenna			Diversity Antenna		
15MHz+15MHz	2577.5	2592.5	1	74	1	0	24.11	23.36	22.98	23.61	22.86	22.48	21.11	20.36	19.98
			75	0	75	0	21.34	20.41	19.97	20.84	19.91	19.47	18.34	17.41	16.97
	2587.5	2602.5	1	74	1	0	24.09	23.39	23.11	23.59	22.89	22.61	21.09	20.39	20.11
			75	0	75	0	21.37	20.35	20.08	20.87	19.85	19.58	18.37	17.35	17.08
	2597.5	2612.5	1	74	1	0	24.05	23.32	22.64	23.55	22.82	22.14	21.05	20.32	19.64
			75	0	75	0	21.32	20.39	20.10	20.82	19.89	19.60	18.32	17.39	17.10
20MHz+20MHz	2580	2599.8	1	99	1	0	24.15	23.53	23.25	23.65	23.03	22.75	21.15	20.53	20.25
			1	0	1	99	14.53	14.81	14.56	14.03	14.31	14.06	11.53	11.81	11.56
			100	0	100	0	21.31	20.34	20.05	20.81	19.84	19.55	18.31	17.34	17.05
	2585.1	2604.9	1	99	1	0	24.31	23.61	23.28	23.81	23.11	22.78	21.31	20.61	20.28
			1	0	1	99	14.43	14.76	14.52	13.93	14.26	14.02	11.43	11.76	11.52
			100	0	100	0	21.42	20.37	19.93	20.92	19.87	19.43	18.42	17.37	16.93
	2590.2	2610	1	99	1	0	24.15	23.57	23.21	23.65	23.07	22.71	21.15	20.57	20.21
			1	0	1	99	14.54	14.83	14.20	14.04	14.33	13.70	11.54	11.83	11.20
			100	0	100	0	21.33	20.31	20.06	20.83	19.81	19.56	18.33	17.31	17.06

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 51 kHz, VBW is set to 160 kHz for WCDMA Band IV.

RBW is set to 30kHz, VBW is set to 91kHz for LTE Band 4 (1.4MHz).

RBW is set to 62kHz, VBW is set to 180kHz for LTE Band 4 (3MHz).

RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 4/7/38/41 (5MHz).

RBW is set to 200kHz, VBW is set to 620kHz for LTE Band 4/7/38/41 (10MHz).

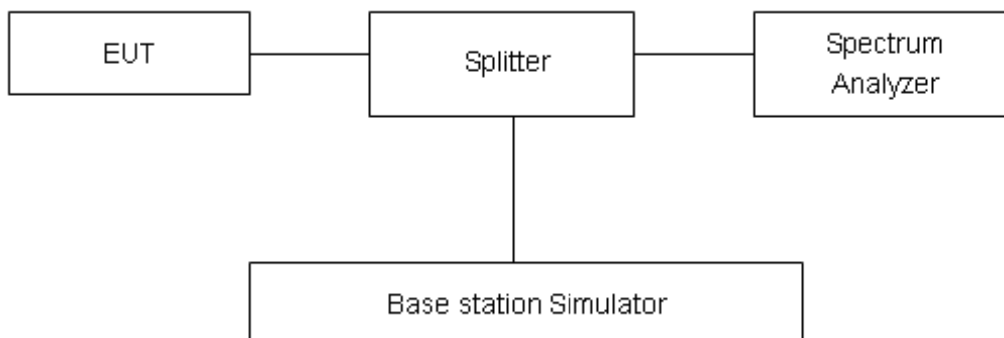
RBW is set to 300kHz, VBW is set to 910kHz for LTE Band 4/7/38/41 (15MHz).

RBW is set to 430kHz, VBW is set to 1.2MHz for LTE Band 4/7/38/41 (20MHz).

RBW is set to 1MHz, VBW is set to 3MHz for CA-7C/CA-38C.

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	4.1492	4.696
	1413	1732.6	4.1414	4.729
	1513	1752.6	4.1401	4.701

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.0940	1.234
			20175	1732.5	1.0878	1.231
			20393	1754.3	1.0928	1.246
		3	19965	1711.5	2.7024	3.001
			20175	1732.5	2.7019	3.018
			20385	1753.5	2.7062	3.020
		5	19975	1712.5	4.5084	4.925
			20175	1732.5	4.5086	4.966
			20375	1752.5	4.4982	4.913
		10	20000	1715	8.9692	9.748
			20175	1732.5	8.9633	9.620
			20350	1750	8.9739	9.747
		15	20025	1717.5	13.4310	14.590
			20175	1732.5	13.4710	14.590
			20325	1747.5	13.4720	14.510
		20	20050	1720	17.9370	19.360
			20175	1732.5	17.9580	19.450
			20300	1745	17.9510	19.240
	16QAM	1.4	19957	1710.7	1.0955	1.243
			20175	1732.5	1.0953	1.238
			20393	1754.3	1.0911	1.226
		3	19965	1711.5	2.7082	2.986
			20175	1732.5	2.7042	2.945
			20385	1753.5	2.6967	3.015
		5	19975	1712.5	4.5051	4.953
			20175	1732.5	4.5206	4.915
			20375	1752.5	4.5244	4.965
		10	20000	1715	8.9680	9.682
			20175	1732.5	8.9913	9.654
			20350	1750	8.9670	9.768



		15	20025	1717.5	13.4260	14.510
			20175	1732.5	13.4780	14.640
			20325	1747.5	13.4890	14.710
		20	20050	1720	17.9050	19.210
			20175	1732.5	17.9760	19.420
			20300	1745	17.9530	19.390
	64QAM	1.4	19957	1710.7	1.0936	1.237
			20175	1732.5	1.0977	1.256
			20393	1754.3	1.0922	1.220
		3	19965	1711.5	2.6973	2.977
			20175	1732.5	2.6947	2.983
			20385	1753.5	2.6957	2.952
		5	19975	1712.5	4.5197	4.933
			20175	1732.5	4.5257	4.952
			20375	1752.5	4.5322	4.905
		10	20000	1715	9.0048	9.672
			20175	1732.5	8.9987	9.710
			20350	1750	8.9849	9.667
		15	20025	1717.5	13.4510	14.580
			20175	1732.5	13.4700	14.650
			20325	1747.5	13.4790	14.470
		20	20050	1720	17.9110	19.390
			20175	1732.5	17.9310	19.390
			20300	1745	17.9260	19.370

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.5050	4.922
			21100	2535	4.5212	4.902
			21425	2567.5	4.5126	4.927
		10	20800	2505	8.9926	9.787
			21100	2535	8.9614	9.790
			21400	2565	8.9305	9.718
		15	20825	2507.5	13.4930	14.730
			21100	2535	13.4440	14.420
			21375	2562.5	13.3970	14.640
		20	20850	2510	17.9600	19.410
			21100	2535	17.8700	19.150
			21350	2560	17.8170	19.150



	16QAM	5	20775	2502.5	4.5125	4.967
			21100	2535	4.4986	4.910
			21425	2567.5	4.5210	4.971
		10	20800	2505	8.9904	9.762
			21100	2535	8.9671	9.676
			21400	2565	8.9324	9.654
		15	20825	2507.5	13.4830	14.630
			21100	2535	13.4500	14.510
			21375	2562.5	13.3750	14.510
		20	20850	2510	17.9090	19.430
			21100	2535	17.9600	19.470
			21350	2560	17.8690	19.300
	64QAM	5	20775	2502.5	4.5028	4.955
			21100	2535	4.5092	4.960
			21425	2567.5	4.5182	4.933
		10	20800	2505	8.9767	9.750
			21100	2535	8.9806	9.745
			21400	2565	8.9625	9.678
		15	20825	2507.5	13.4930	14.680
			21100	2535	13.4380	14.650
			21375	2562.5	13.4630	14.470
		20	20850	2510	17.9130	19.380
			21100	2535	17.9160	19.270
			21350	2560	17.8960	19.290

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.5016	4.930
			38000	2595	4.5020	4.857
			38225	2617.5	4.5003	4.889
		10	37800	2575	8.9875	10.030
			38000	2595	8.9957	9.849
			38200	2615	8.9835	9.643
		15	37825	2577.5	13.4400	14.220
			38000	2595	13.4430	14.530
			38175	2612.5	13.4600	14.740
		20	37850	2580	17.9090	19.210
			38000	2595	17.9130	19.580
			38150	2610	17.9230	19.220



	16QAM	5	37775	2572.5	4.4925	4.879
			38000	2595	4.5102	4.863
			38225	2617.5	4.4952	4.926
		10	37800	2575	9.0079	9.648
			38000	2595	8.9392	9.632
			38200	2615	8.9957	9.736
		15	37825	2577.5	13.4590	14.650
			38000	2595	13.4390	15.380
			38175	2612.5	13.4480	14.500
		20	37850	2580	17.9120	19.340
			38000	2595	17.9080	19.790
			38150	2610	17.8880	19.130
	64QAM	5	37775	2572.5	4.5078	4.839
			38000	2595	4.5053	4.906
			38225	2617.5	4.5136	4.947
		10	37800	2575	8.9999	9.766
			38000	2595	8.9760	9.658
			38200	2615	8.9832	9.615
		15	37825	2577.5	13.4690	14.740
			38000	2595	13.4410	14.670
			38175	2612.5	13.4720	14.600
		20	37850	2580	17.8860	19.260
			38000	2595	17.9290	19.180
			38150	2610	17.9020	19.220

LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	40065	2537.5	4.5068	4.952
			40640	2595	4.5085	4.960
			41215	2652.5	4.5085	4.924
		10	40090	2540	8.9853	9.926
			40640	2595	8.9708	9.859
			41190	2650	9.0164	10.120
		15	40115	2542.5	13.4660	14.820
			40640	2595	13.4420	14.440
			41165	2647.5	13.4470	14.650
		20	40140	2545	17.8910	19.360
			40640	2595	17.9360	19.430
			41140	2645	17.9280	19.560



	16QAM	5	40065	2537.5	4.5089	4.942
			40640	2595	4.5086	4.975
			41215	2652.5	4.5003	4.960
		10	40090	2540	8.9553	9.767
			40640	2595	8.9625	9.728
			41190	2650	8.9783	9.762
		15	40115	2542.5	13.4560	14.690
			40640	2595	13.4920	15.400
			41165	2647.5	13.4650	14.810
		20	40140	2545	17.8910	19.500
			40640	2595	17.9680	19.590
			41140	2645	17.9450	19.400
	64QAM	5	40065	2537.5	4.5047	4.953
			40640	2595	4.5123	4.966
			41215	2652.5	4.5056	4.951
		10	40090	2540	8.9785	9.778
			40640	2595	8.9600	9.743
			41190	2650	8.9710	9.733
		15	40115	2542.5	13.4250	14.650
			40640	2595	13.4770	15.110
			41165	2647.5	13.4990	15.210
		20	40140	2545	17.9000	19.370
			40640	2595	17.9270	19.530
			41140	2645	17.9350	19.410

CA-7C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)			99% Power	-26dBc
10MHz+20MHz_QPSK	21006	2525.6	21150	2540	50#0	75#0	28.092	30.16
10MHz+20MHz_16QAM	21006	2525.6	21150	2540	50#0	75#0	27.984	30.08
10MHz+20MHz_64QAM	21006	2525.6	21150	2540	50#0	75#0	28.038	30.15
20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	75#0	50#0	28.059	30.27
20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	75#0	50#0	28.152	30.06
20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	75#0	50#0	28.072	30.15
15MHz+10MHz_QPSK	21051	2530.1	21171	2542.1	75#0	75#0	23.570	25.63
15MHz+10MHz_16QAM	21025	2527.5	21175	2542.5	75#0	75#0	23.506	25.48
15MHz+10MHz_64QAM	21025	2527.5	21175	2542.5	75#0	75#0	23.520	25.50
15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	75#0	75#0	28.629	30.72
15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.616	30.75
15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.581	30.76
15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	75#0	100#0	32.837	35.11
15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.773	35.18



15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.852	35.21
20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	100#0	75#0	32.938	35.35
20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	100#0	75#0	32.916	35.23
20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	100#0	75#0	32.827	35.20
20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	100#0	100#0	37.721	40.24
20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.687	40.05
20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.664	40.17

CA-38C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)			99% Power	-26dBc
15MHz+15MHz_QPSK	37925	2587.5	38075	2602.5	75#0	75#0	28.619	31.30
15MHz+15MHz_16QAM	37925	2587.5	38075	2602.5	75#0	75#0	28.657	34.28
15MHz+15MHz_64QAM	37925	2587.5	38075	2602.5	75#0	75#0	28.709	33.45
20MHz+20MHz_QPSK	37901	2585.1	38099	2604.9	100#0	100#0	37.800	42.05
20MHz+20MHz_16QAM	37901	2585.1	38099	2604.9	100#0	100#0	37.728	41.55
20MHz+20MHz_64QAM	37901	2585.1	38099	2604.9	100#0	100#0	37.688	40.03



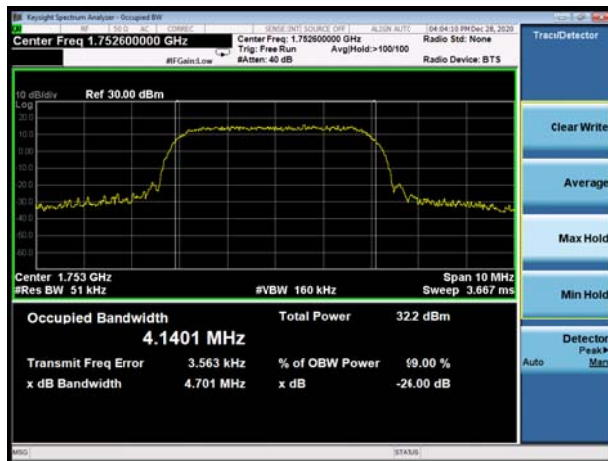
WCDMA Band IV CH-Low



WCDMA Band IV CH Middle



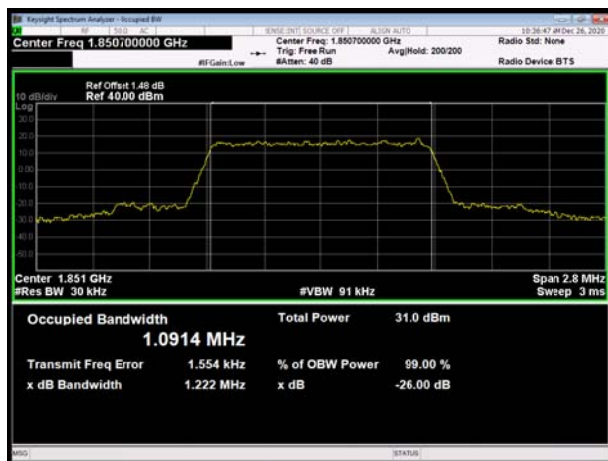
WCDMA Band IV CH High



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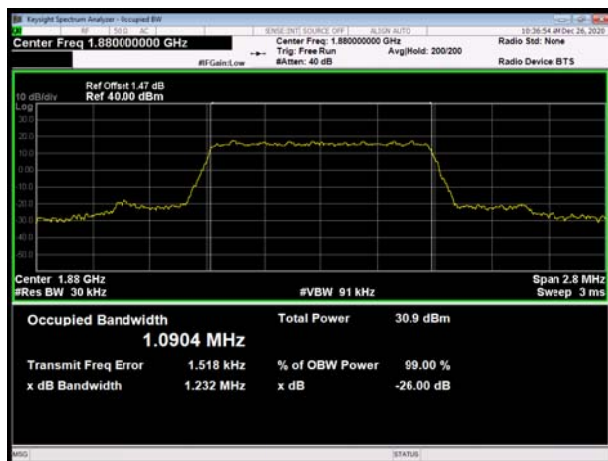
LTE Band 4 QPSK 1.4MHz CH-Low



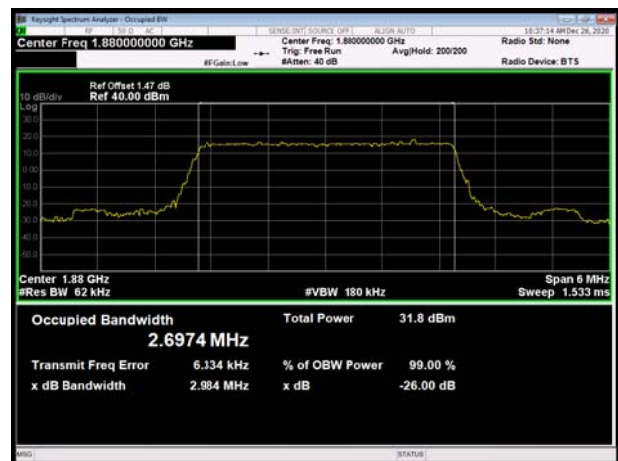
LTE Band 4 QPSK 3MHz CH-Low



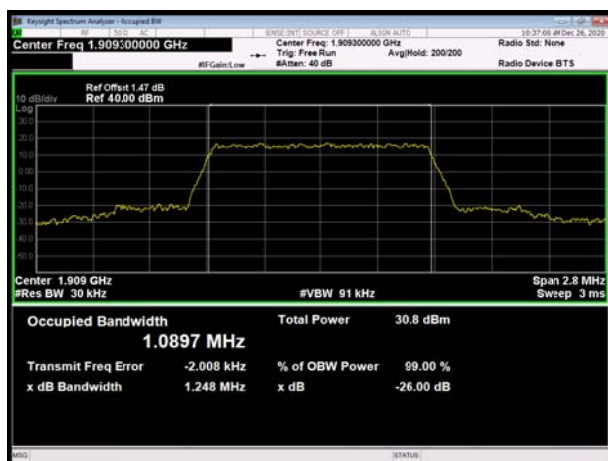
LTE Band 4 QPSK 1.4MHz CH-Middle



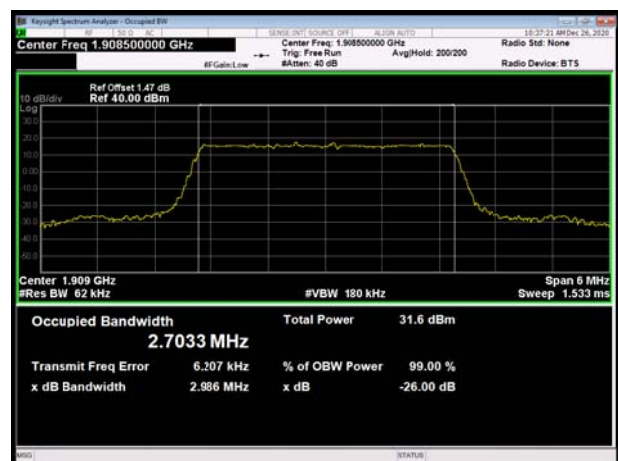
LTE Band 4 QPSK 3MHz CH-Middle



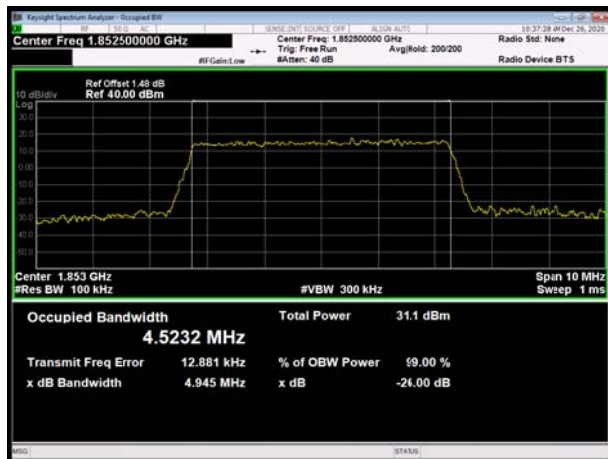
LTE Band 4 QPSK 1.4MHz CH-High



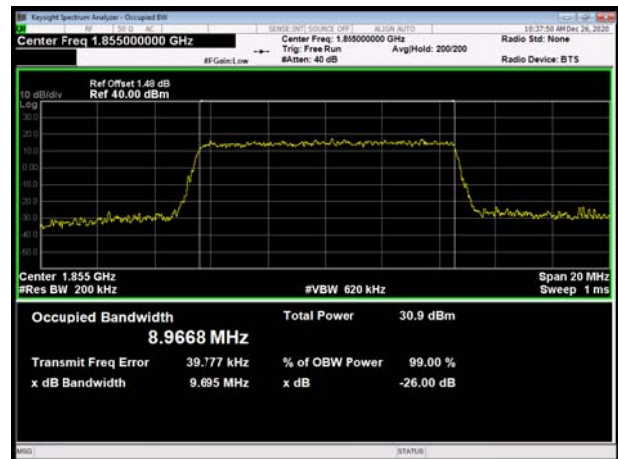
LTE Band 4 QPSK 3MHz CH-High



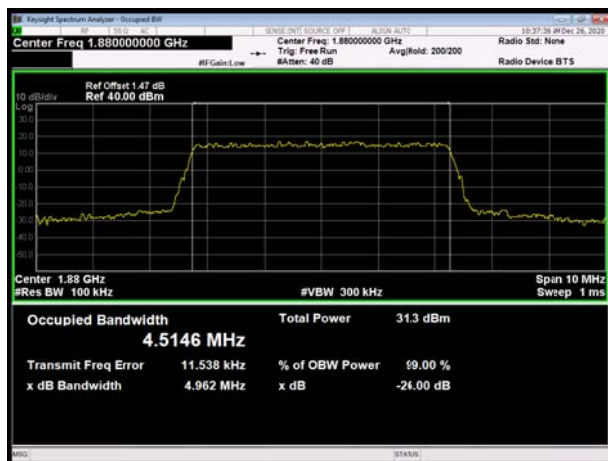
LTE Band 4 QPSK 5MHz CH-Low



LTE Band 4 QPSK 10MHz CH-Low



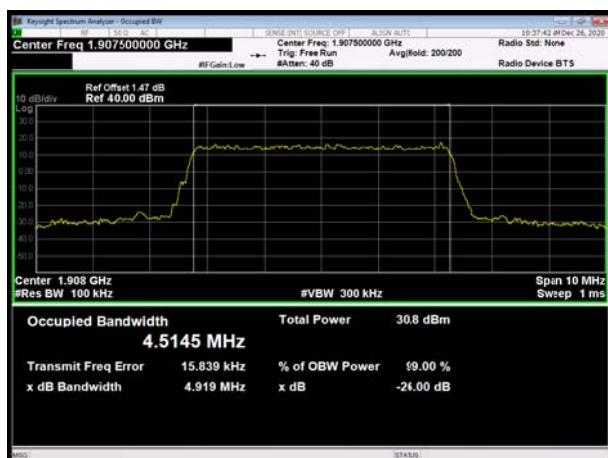
LTE Band 4 QPSK 5MHz CH-Middle



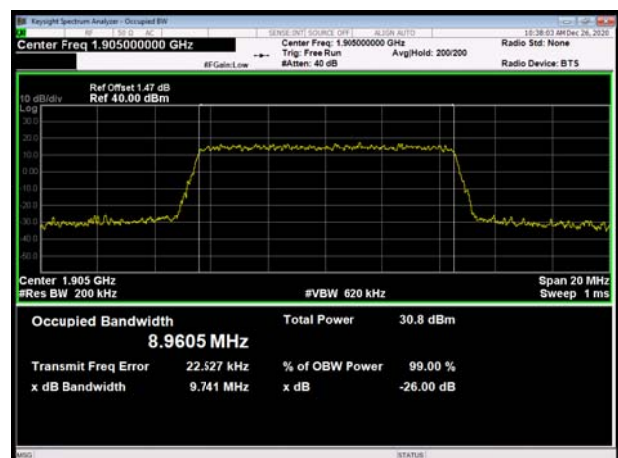
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

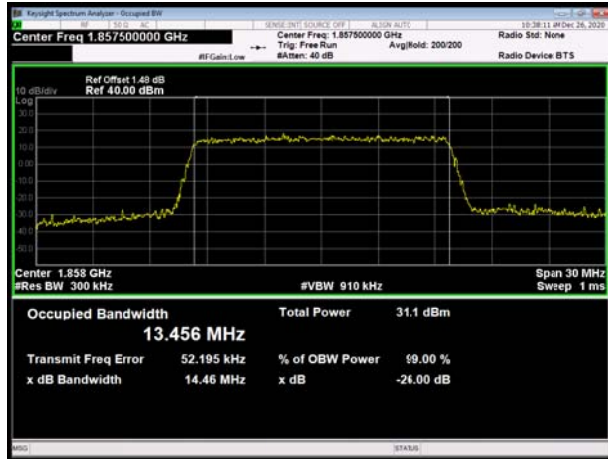


LTE Band 4 QPSK 10MHz CH-High

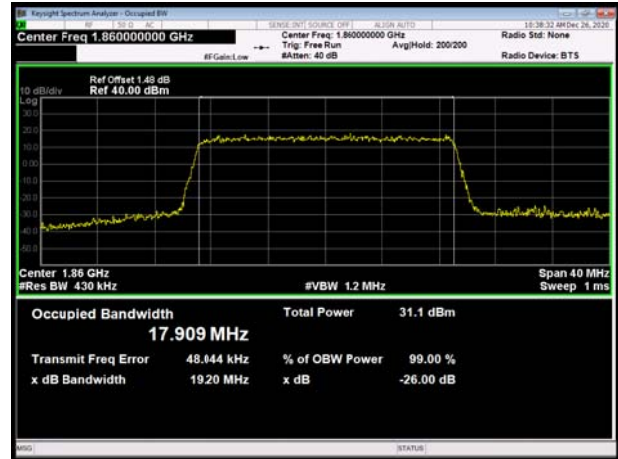




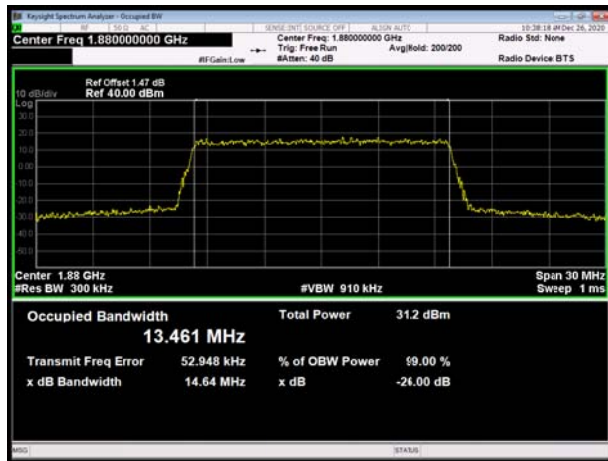
LTE Band 4 QPSK 15MHz CH-Low



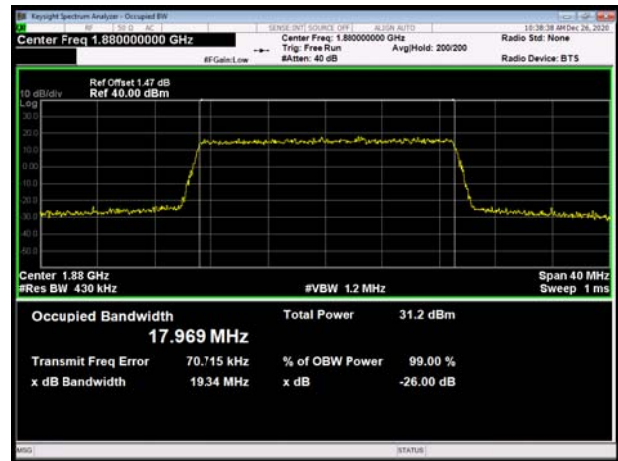
LTE Band 4 QPSK 20MHz CH-Low



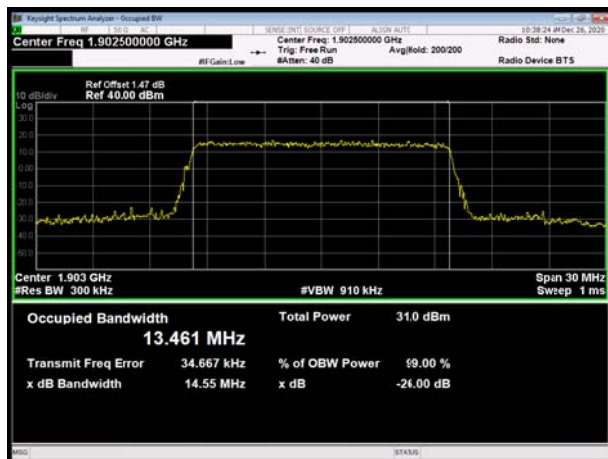
LTE Band 4 QPSK 15MHz CH-Middle



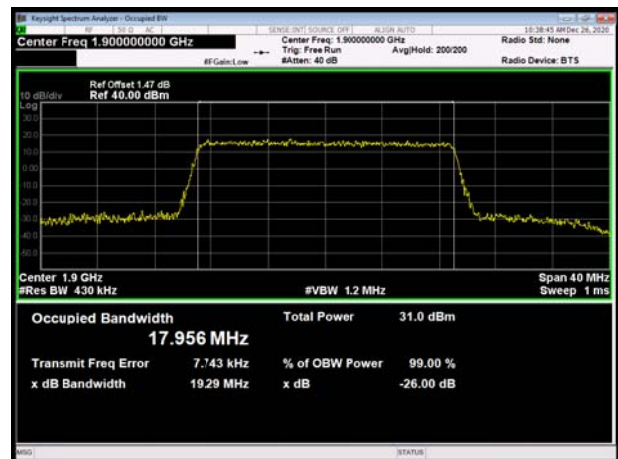
LTE Band 4 QPSK 20MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-High

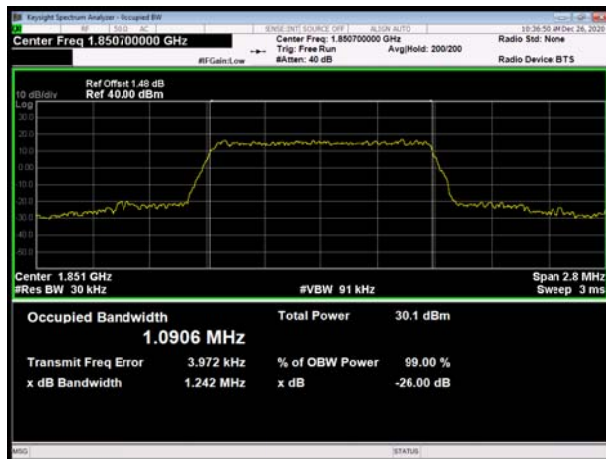


LTE Band 4 QPSK 20MHz CH-High

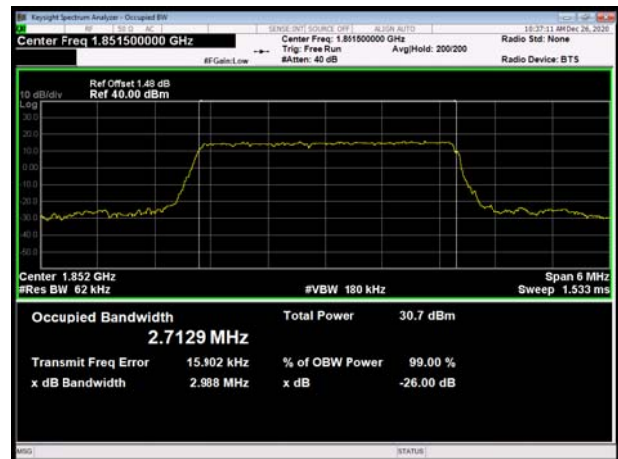




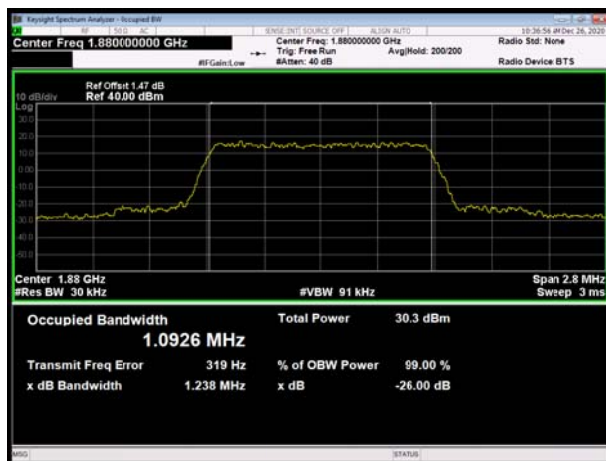
LTE Band 4 16QAM 1.4MHz CH-Low



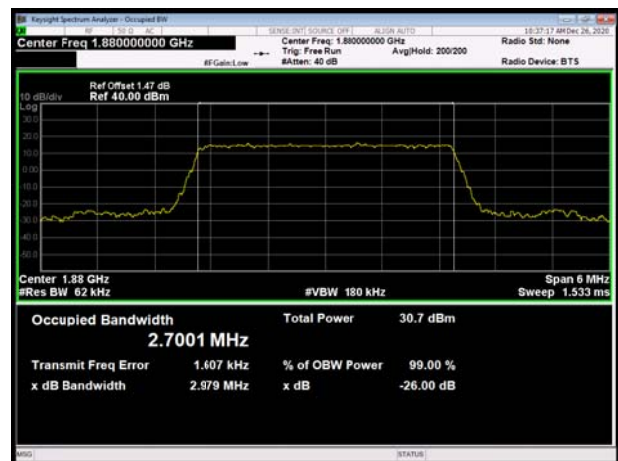
LTE Band 4 16QAM 3MHz CH-Low



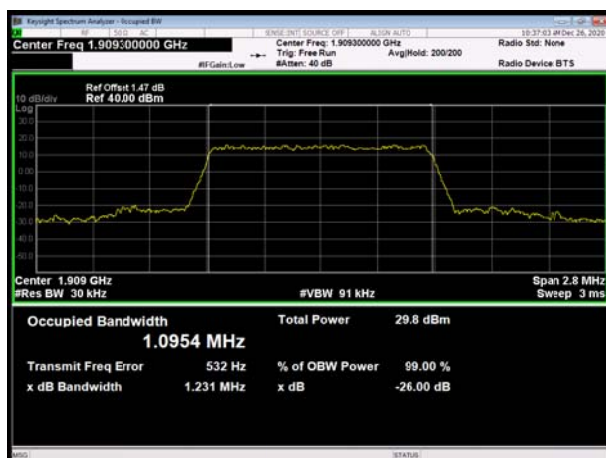
LTE Band 4 16QAM 1.4MHz CH-Middle



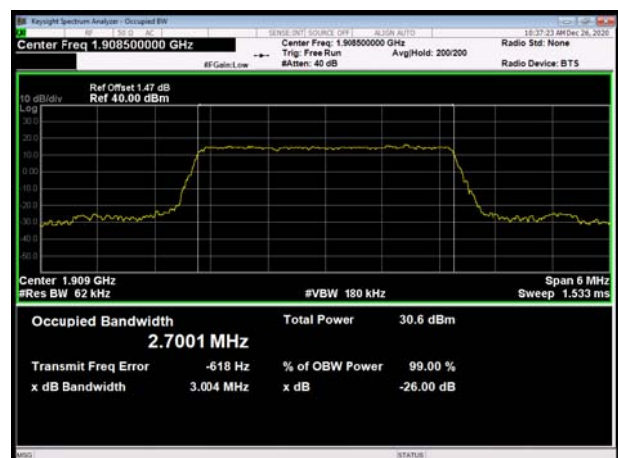
LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High

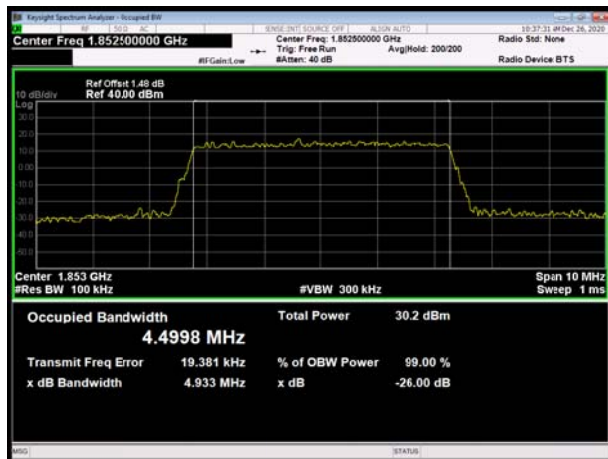


LTE Band 4 16QAM 3MHz CH-High

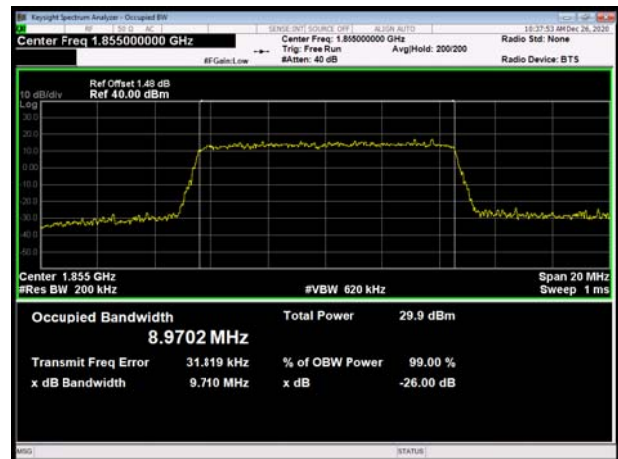




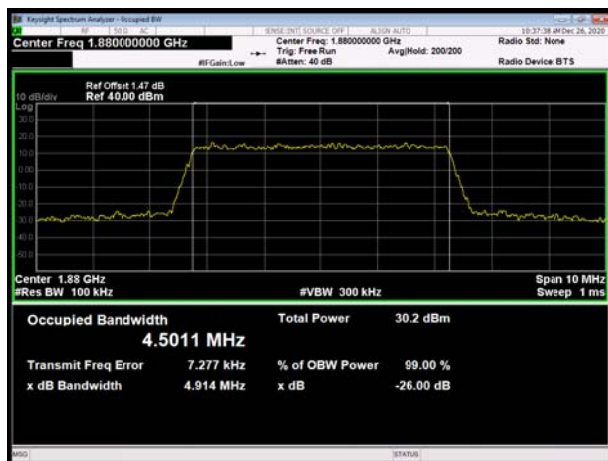
LTE Band 4 16QAM 5MHz CH-Low



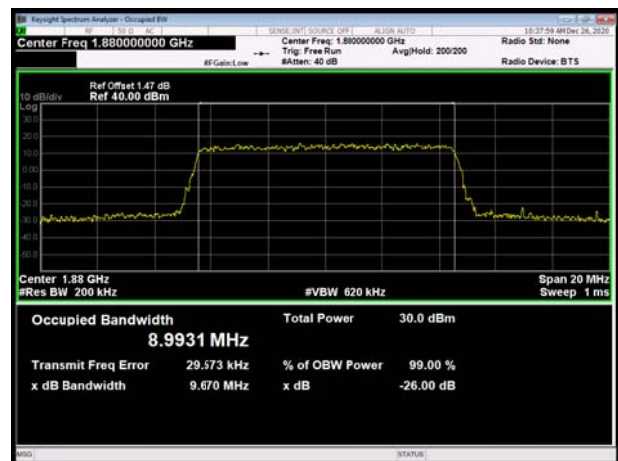
LTE Band 4 16QAM 10MHz CH-Low



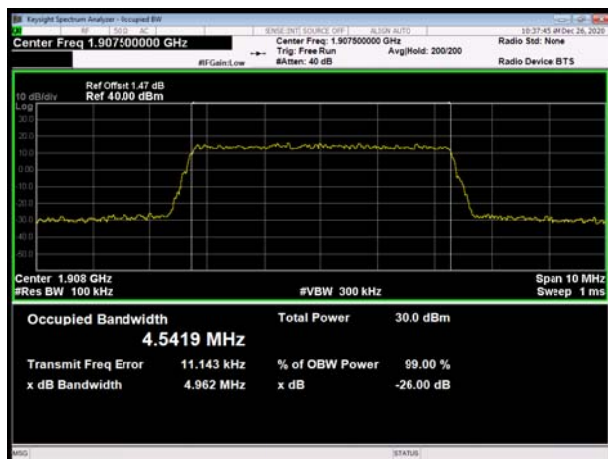
LTE Band 4 16QAM 5MHz CH-Middle



LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High



LTE Band 4 16QAM 10MHz CH-High

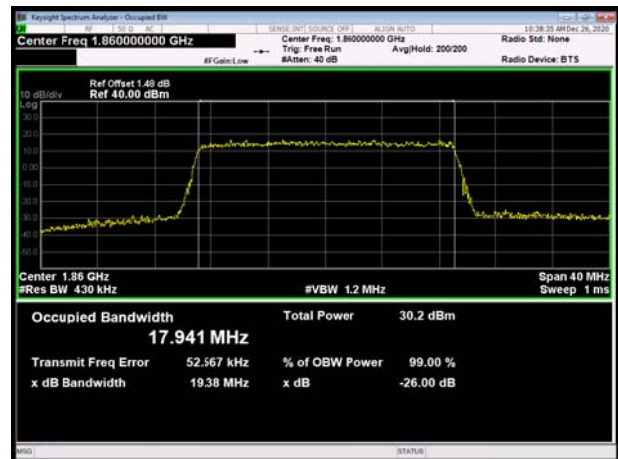




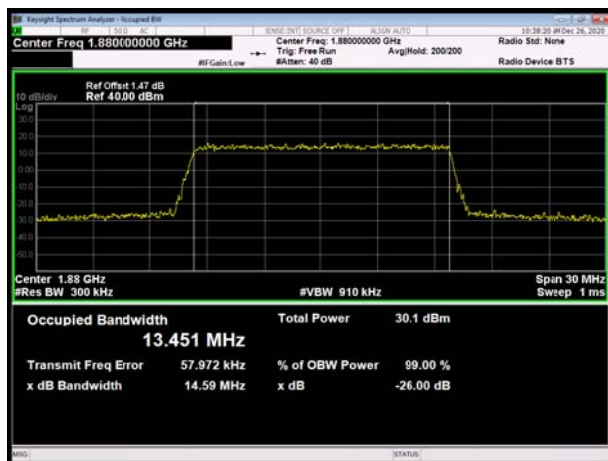
LTE Band 4 16QAM 15MHz CH-Low



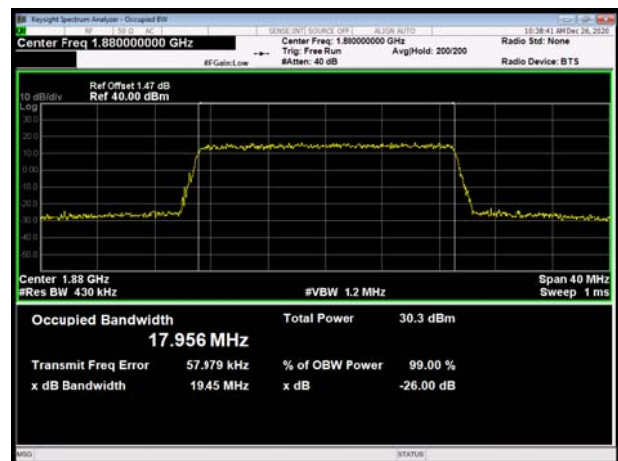
LTE Band 4 16QAM 20MHz CH-Low



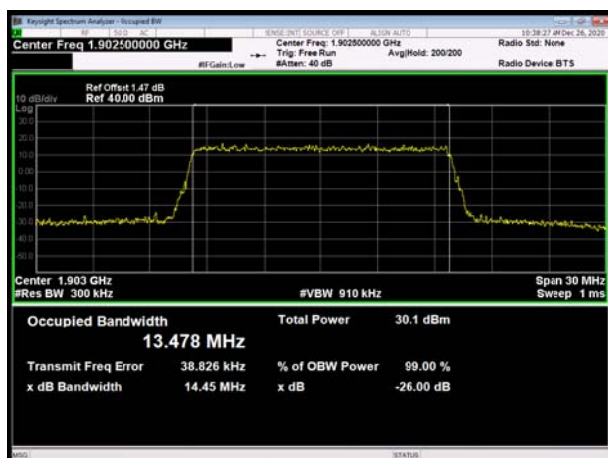
LTE Band 4 16QAM 15MHz CH-Middle



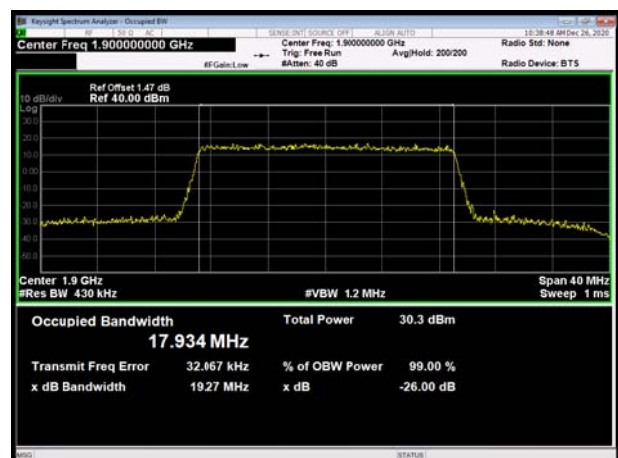
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High

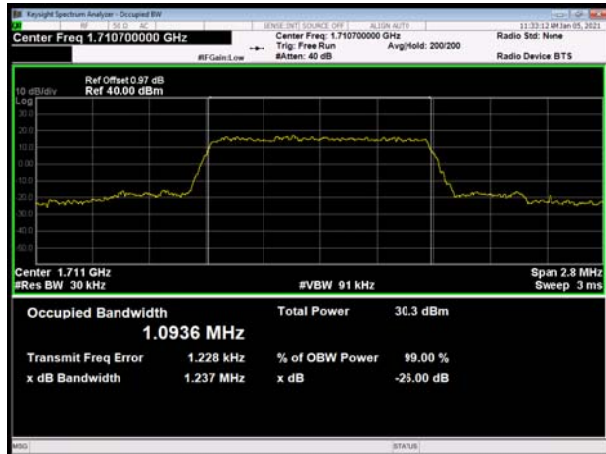


LTE Band 4 16QAM 20MHz CH-High

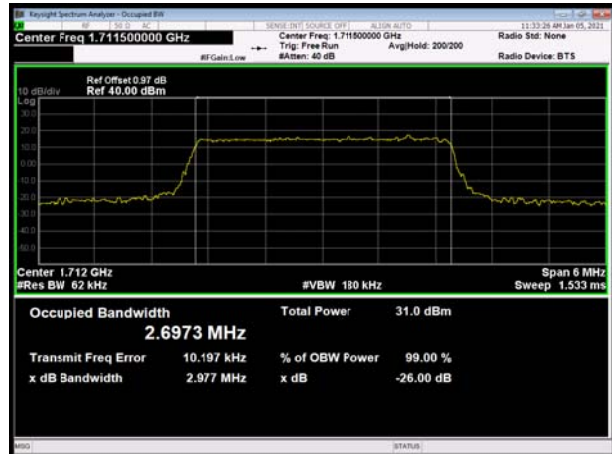




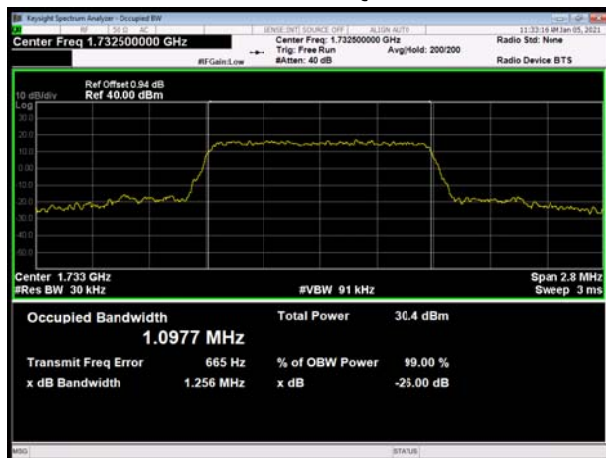
LTE Band 4 1.4MHz 64QAM CH-Low



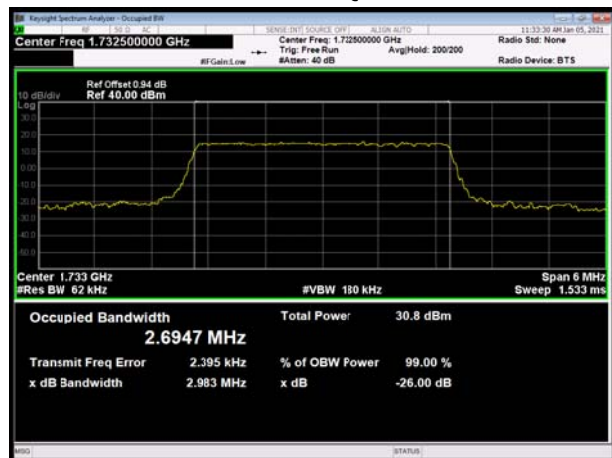
LTE Band 4 3MHz 64QAM CH-Low



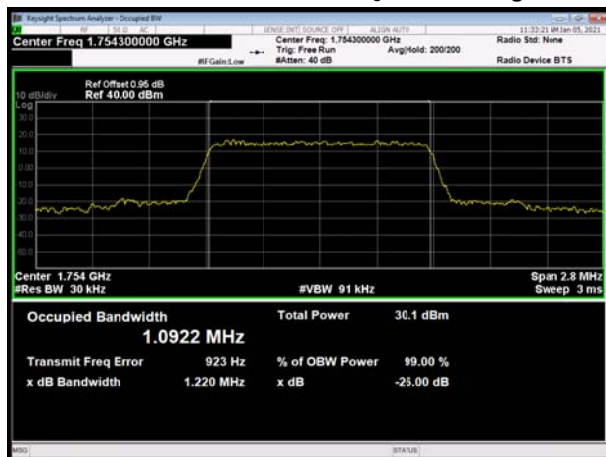
LTE Band 4 1.4MHz 64QAM CH-Middle



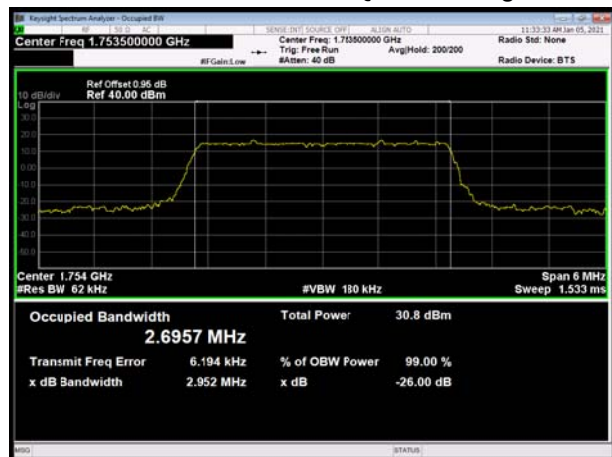
LTE Band 4 3MHz 64QAM CH-Middle



LTE Band 4 1.4MHz 64QAM CH-High

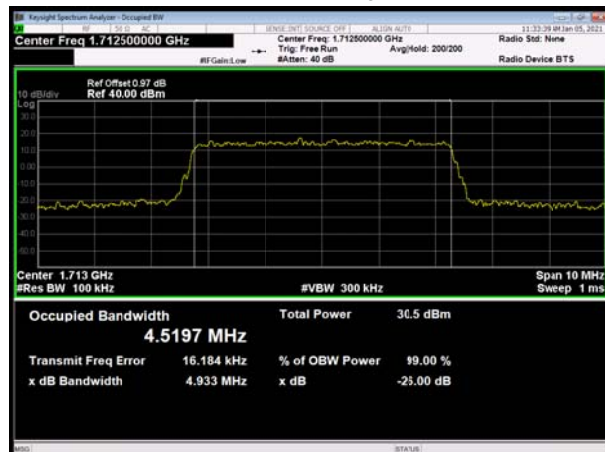


LTE Band 4 3MHz 64QAM CH-High

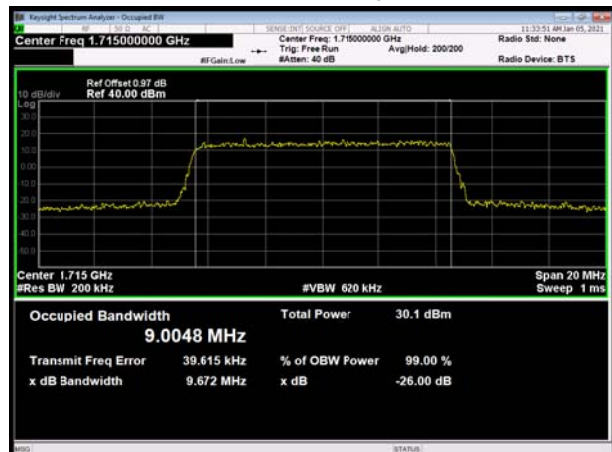




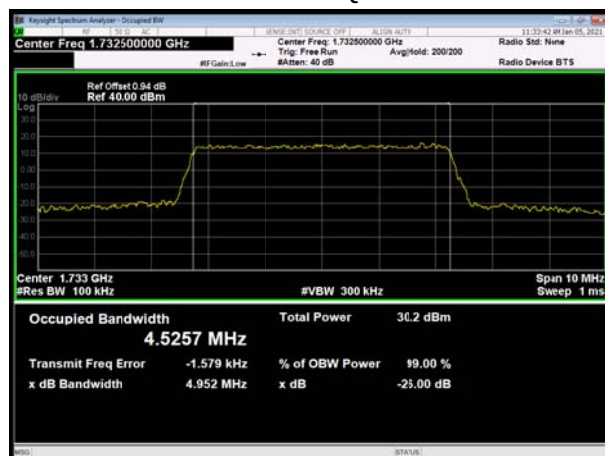
LTE Band 4 5MHz 64QAM CH-Low



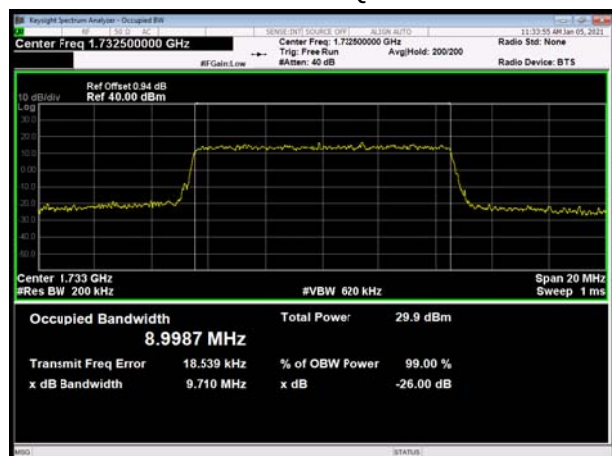
LTE Band 4 10MHz 64QAM CH-Low



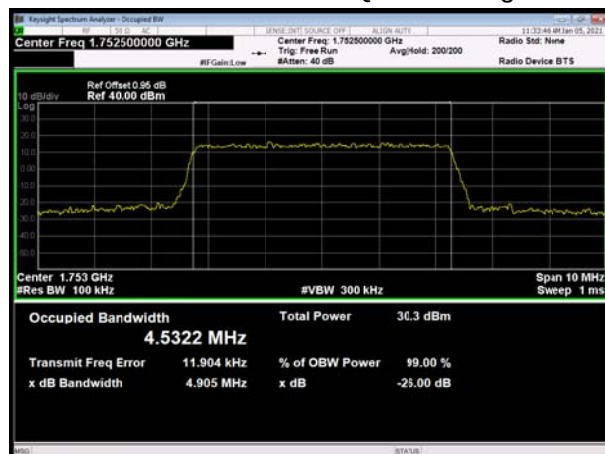
LTE Band 4 5MHz 64QAM CH-Middle



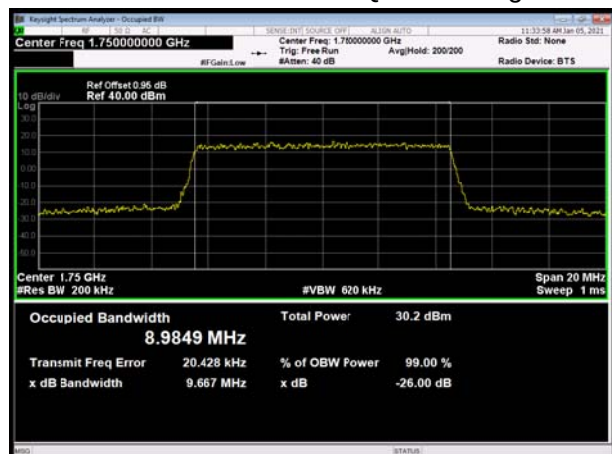
LTE Band 4 10MHz 64QAM CH-Middle



LTE Band 4 5MHz 64QAM CH-High

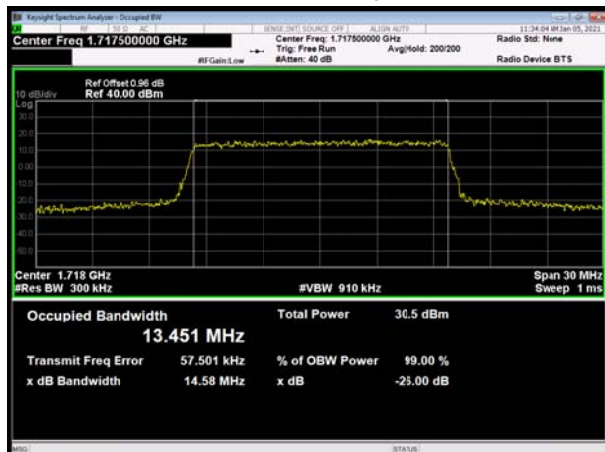


LTE Band 4 10MHz 64QAM CH-High

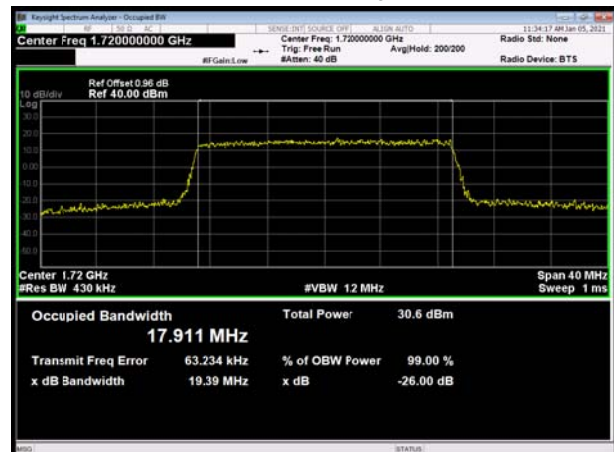




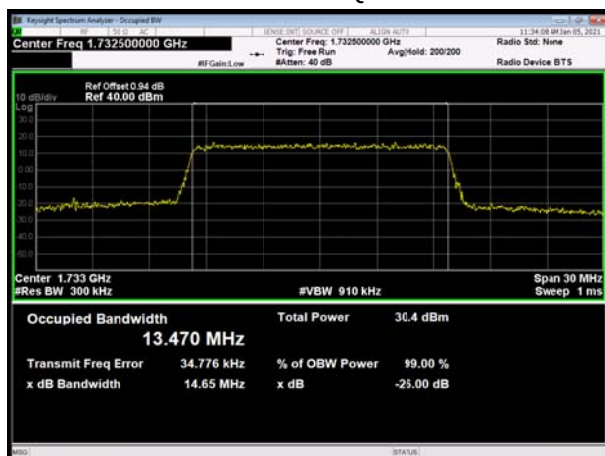
LTE Band 4 15MHz 64QAM CH-Low



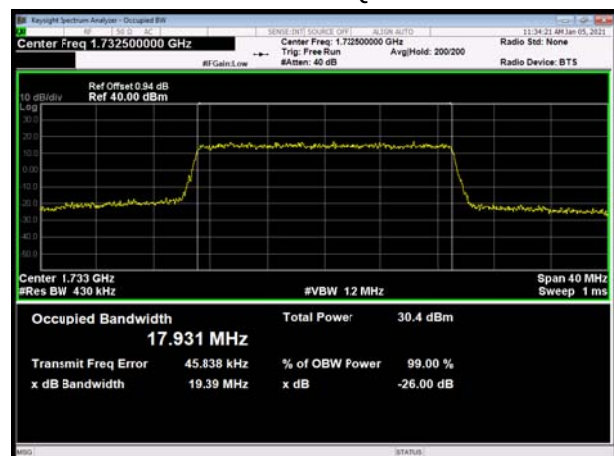
LTE Band 4 20MHz 64QAM CH-Low



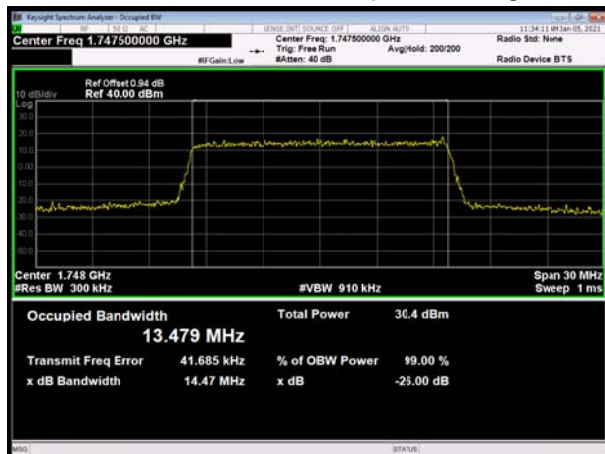
LTE Band 4 15MHz 64QAM CH-Middle



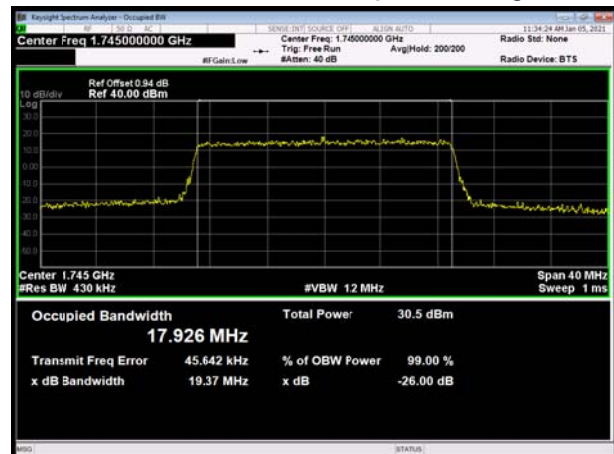
LTE Band 4 20MHz 64QAM CH-Middle



LTE Band 4 15MHz 64QAM CH-High

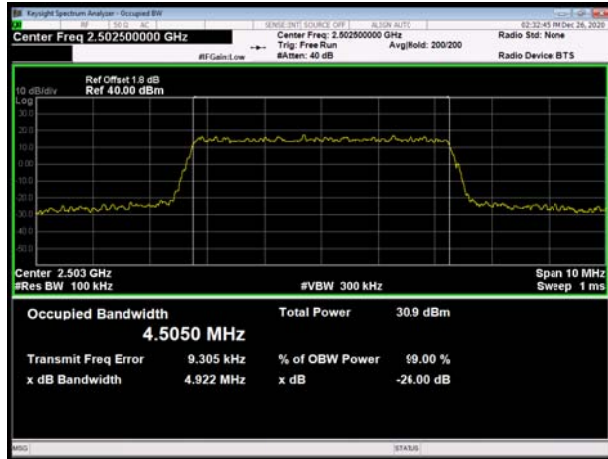


LTE Band 4 20MHz 64QAM CH-High

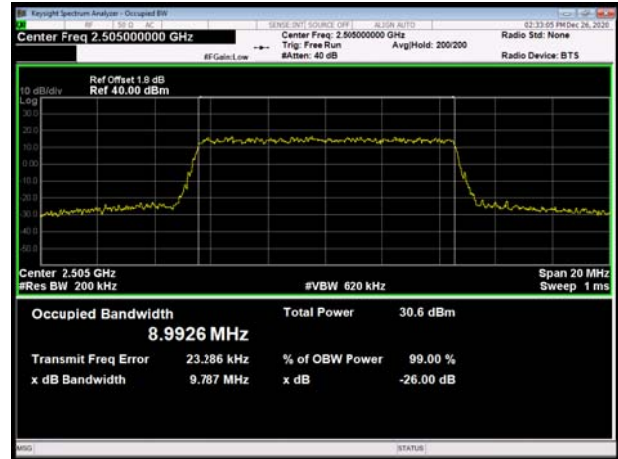




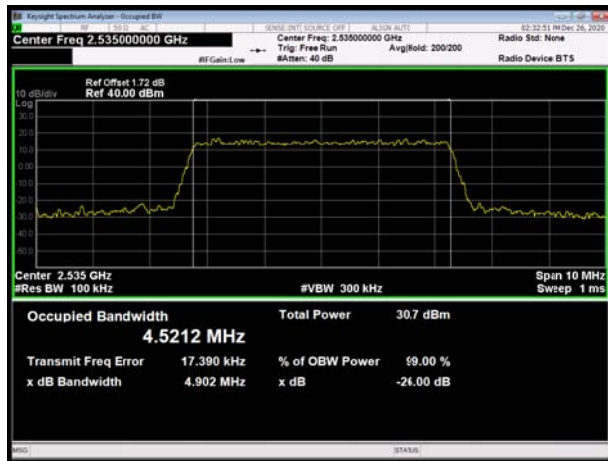
LTE Band 7 QPSK 5MHz CH-Low



LTE Band 7 QPSK 10MHz CH-Low



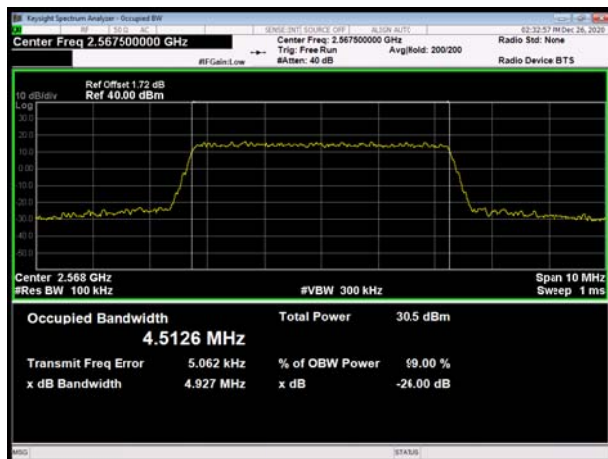
LTE Band 7 QPSK 5MHz CH-Middle



LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

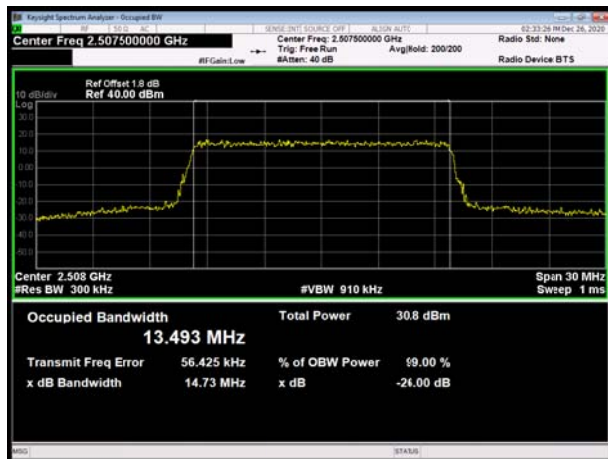


LTE Band 7 QPSK 10MHz CH-High

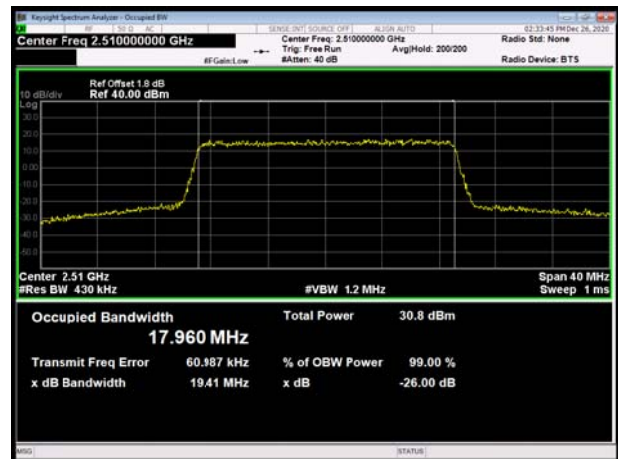




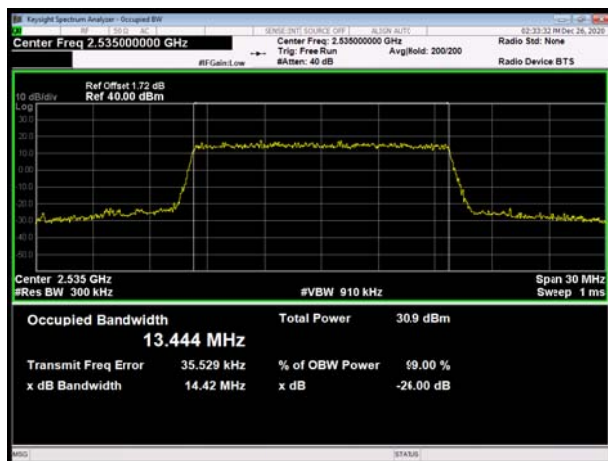
LTE Band 7 QPSK 15MHz CH-Low



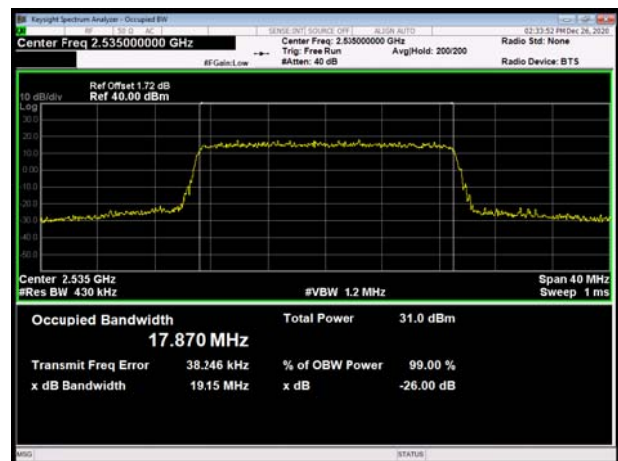
LTE Band 7 QPSK 20MHz CH-Low



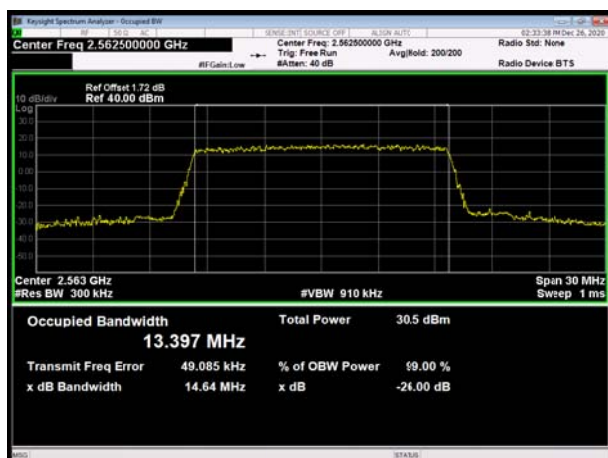
LTE Band 7 QPSK 15MHz CH-Middle



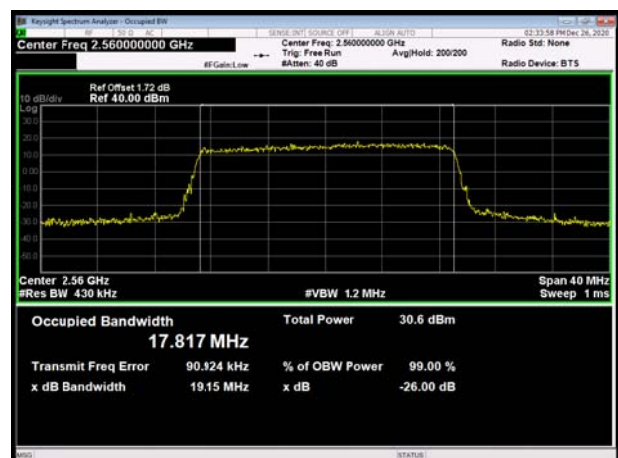
LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High

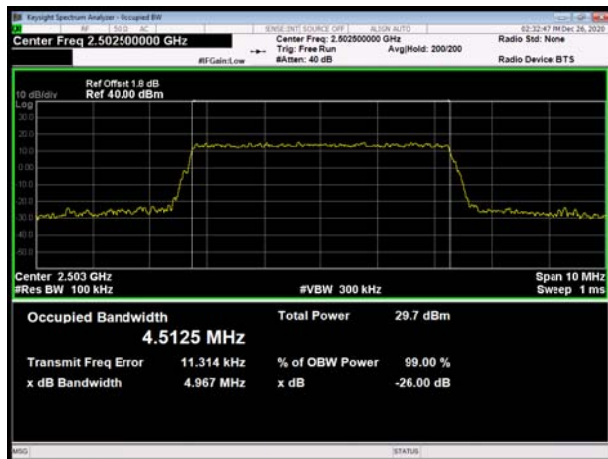


LTE Band 7 QPSK 20MHz CH-High





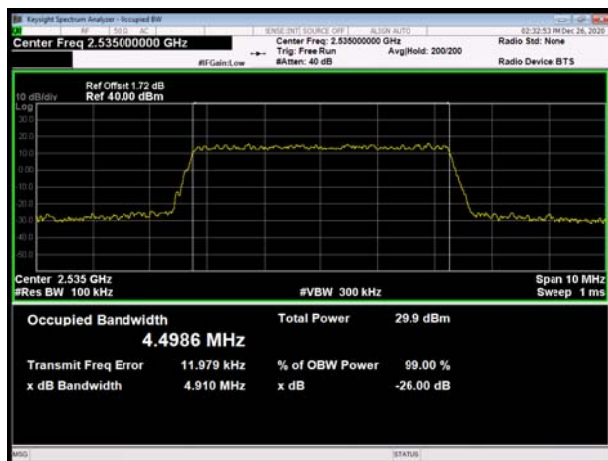
LTE Band 7 16QAM 5MHz CH-Low



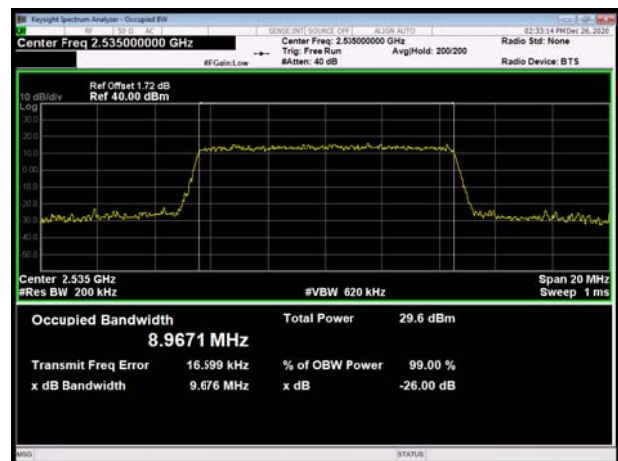
LTE Band 7 16QAM 10MHz CH-Low



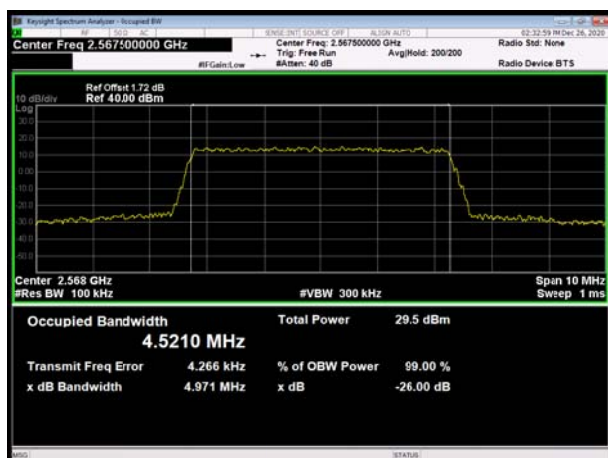
LTE Band 7 16QAM 5MHz CH-Middle



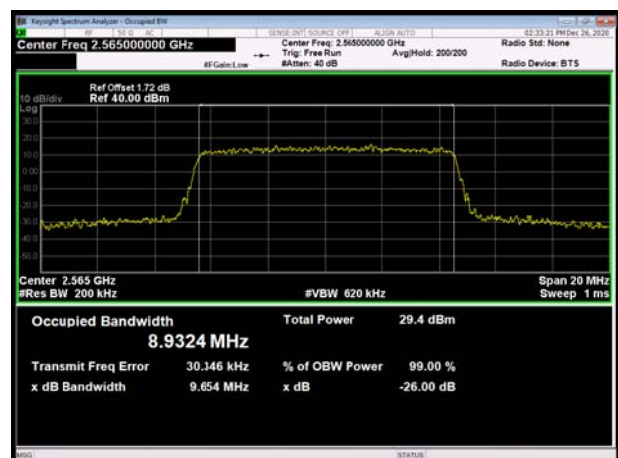
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LTE Band 7 16QAM 5MHz CH-High



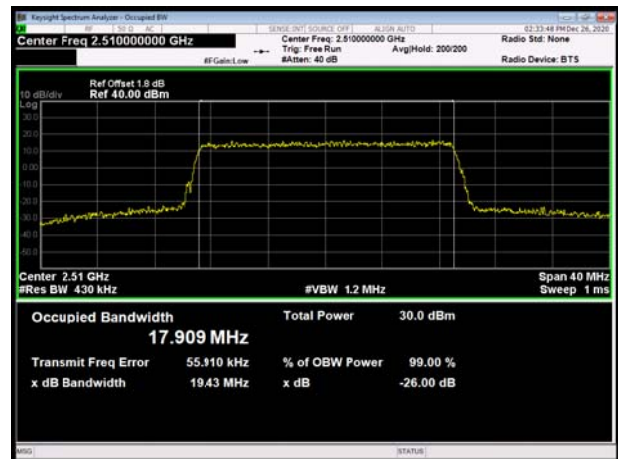
LTE Band 7 16QAM 10MHz CH-High



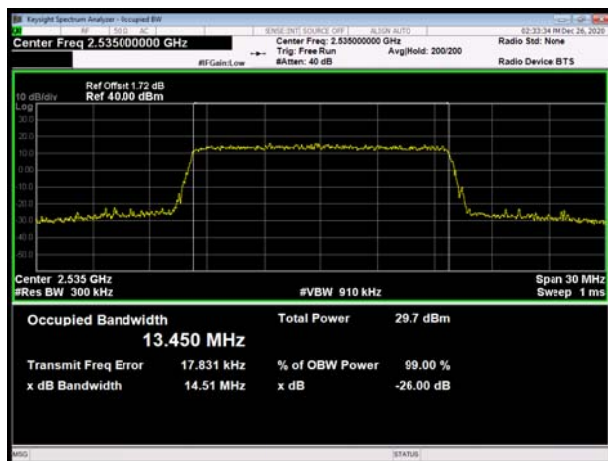
LTE Band 7 16QAM 15MHz CH-Low



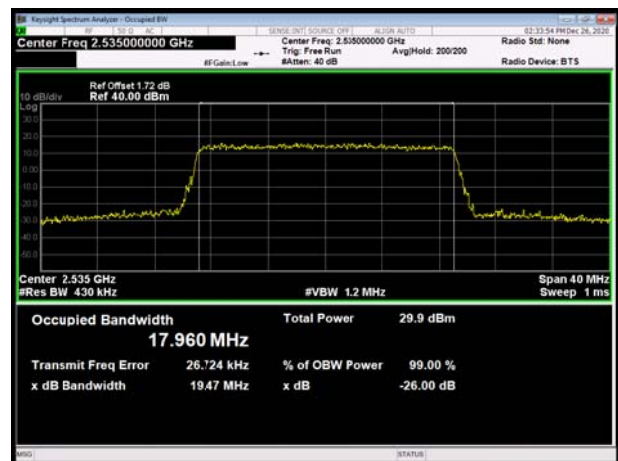
LTE Band 7 16QAM 20MHz CH-Low



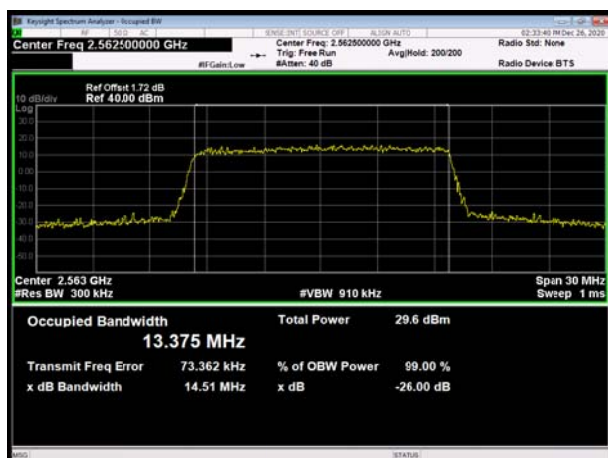
LTE Band 7 16QAM 15MHz CH-Middle



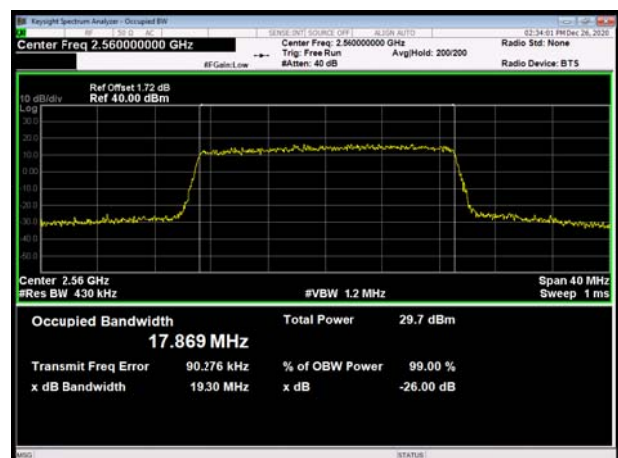
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High

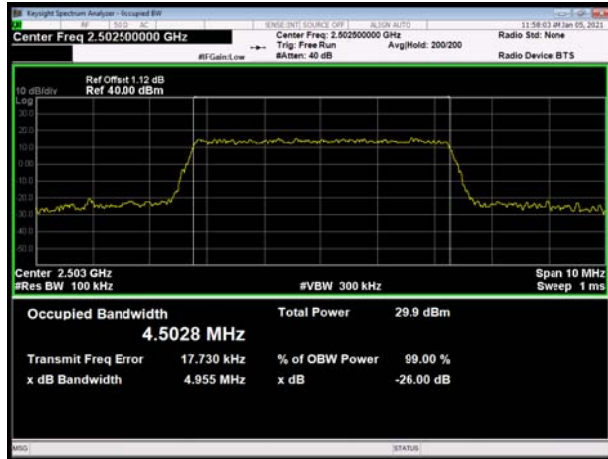


LTE Band 7 16QAM 20MHz CH-High

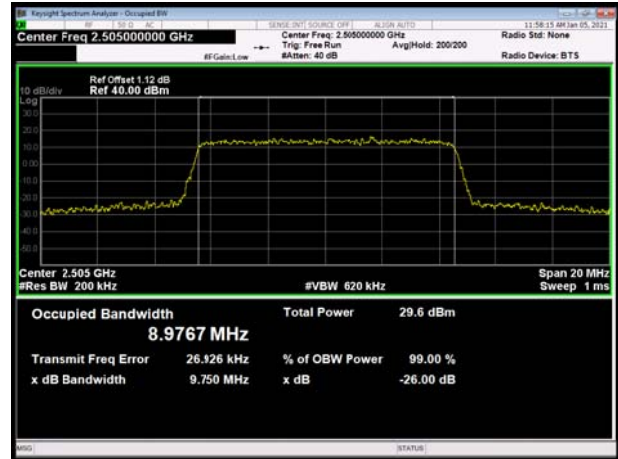




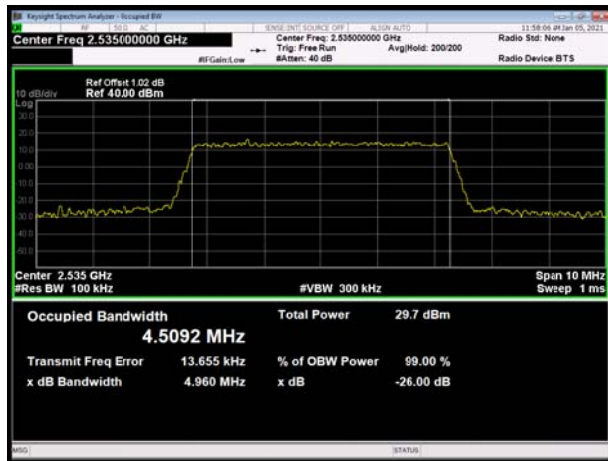
LTE Band 7 64QAM 5MHz CH-Low



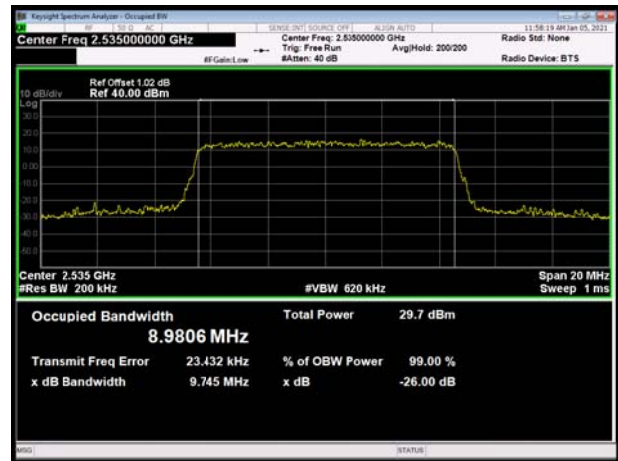
LTE Band 7 64QAM 10MHz CH-Low



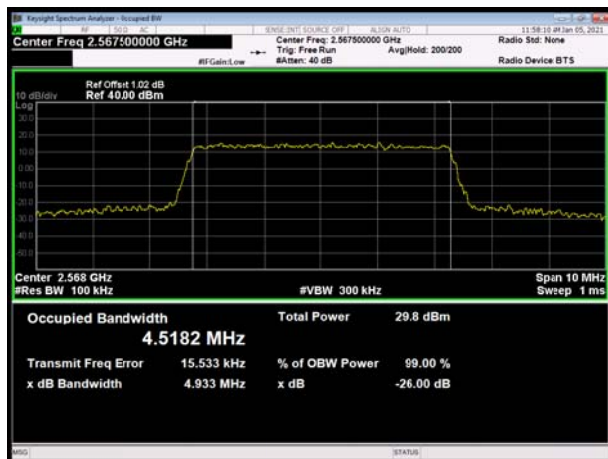
LTE Band 7 64QAM 5MHz CH-Middle



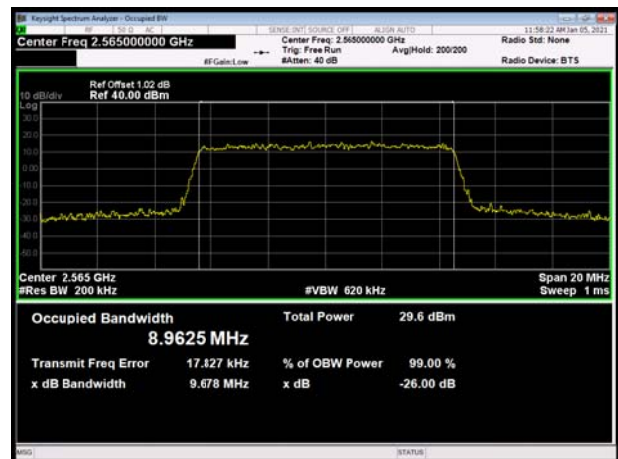
LTE Band 7 64QAM 10MHz CH-Middle



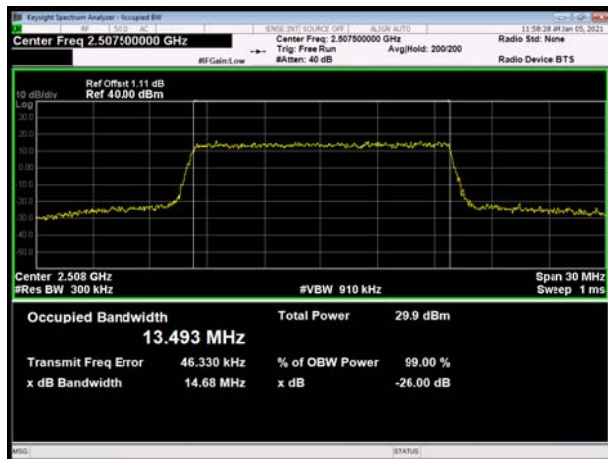
LTE Band 7 64QAM 5MHz CH-High



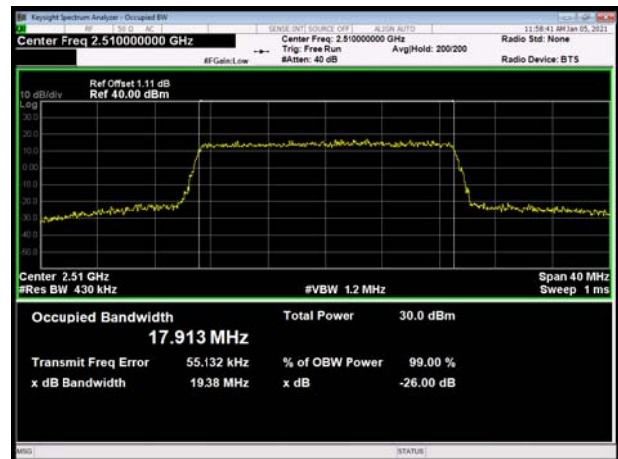
LTE Band 7 64QAM 10MHz CH-High



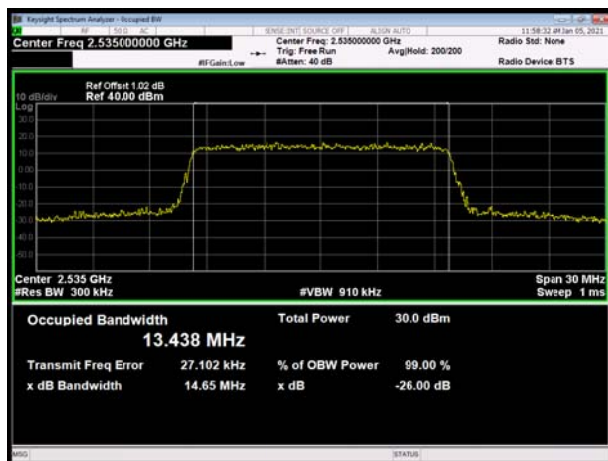
LTE Band 7 64QAM 15MHz CH-Low



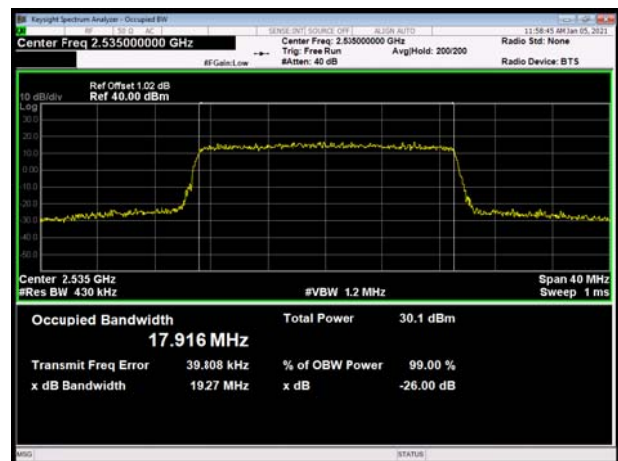
LTE Band 7 64QAM 20MHz CH-Low



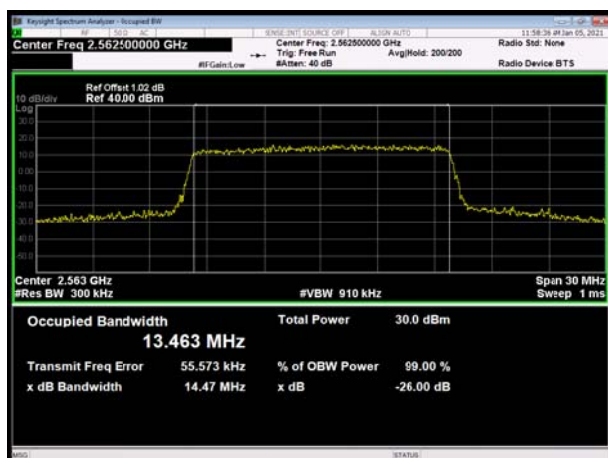
LTE Band 7 64QAM 15MHz CH-Middle



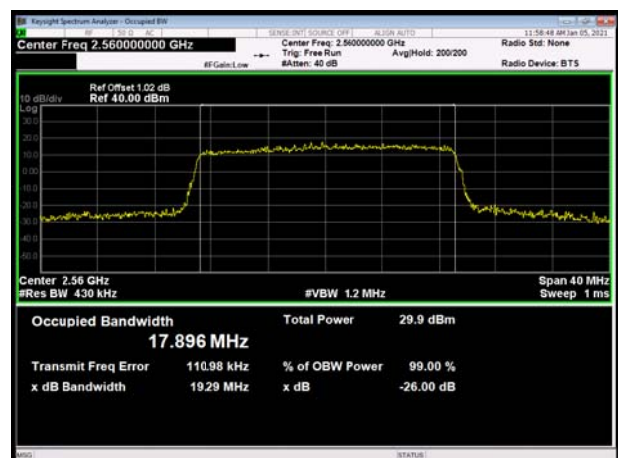
LTE Band 7 64QAM 20MHz CH-Middle



LTE Band 7 64QAM 15MHz CH-High

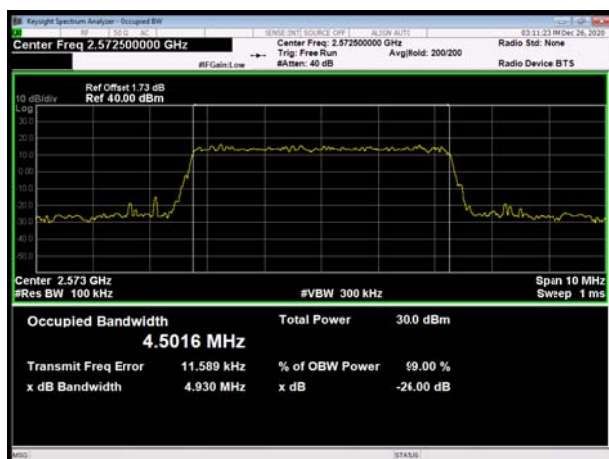


LTE Band 7 64QAM 20MHz CH-High

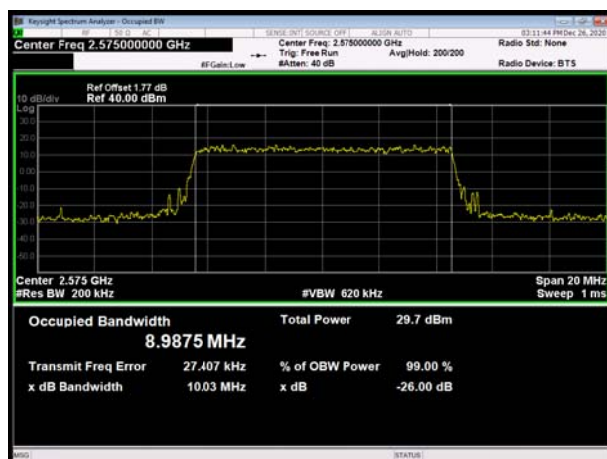




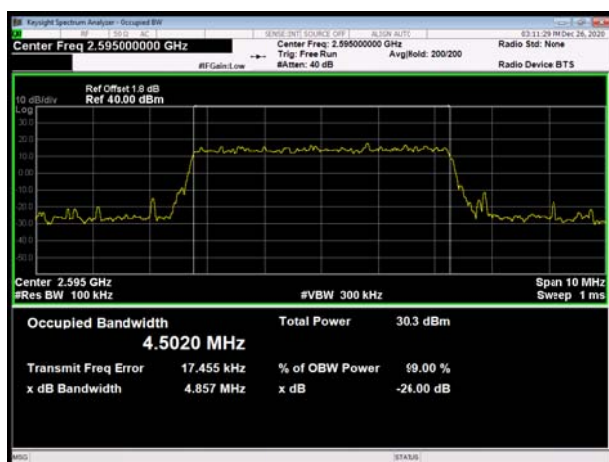
LTE Band 38 QPSK 5MHz CH-Low



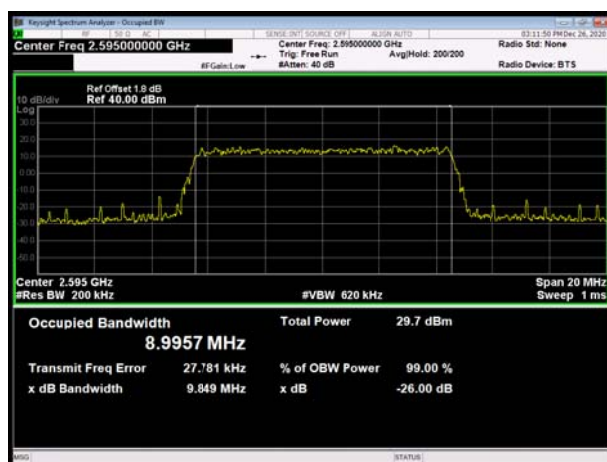
LTE Band 38 QPSK 10MHz CH-Low



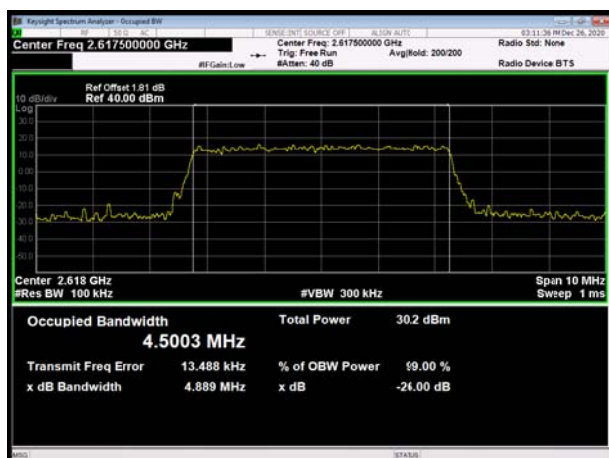
LTE Band 38 QPSK 5MHz CH-Middle



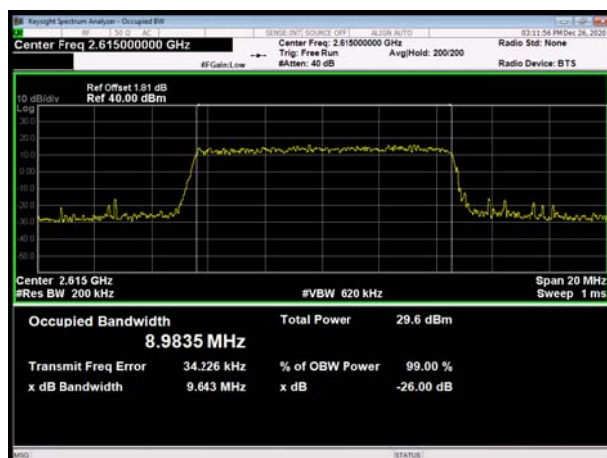
LTE Band 38 QPSK 10MHz CH-Middle



LTE Band 38 QPSK 5MHz CH-High

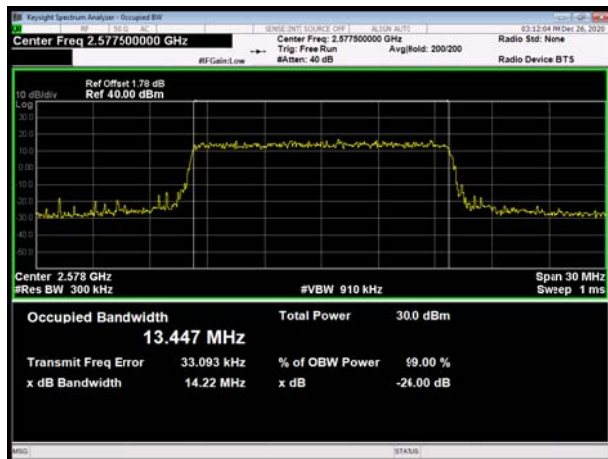


LTE Band 38 QPSK 10MHz CH-High

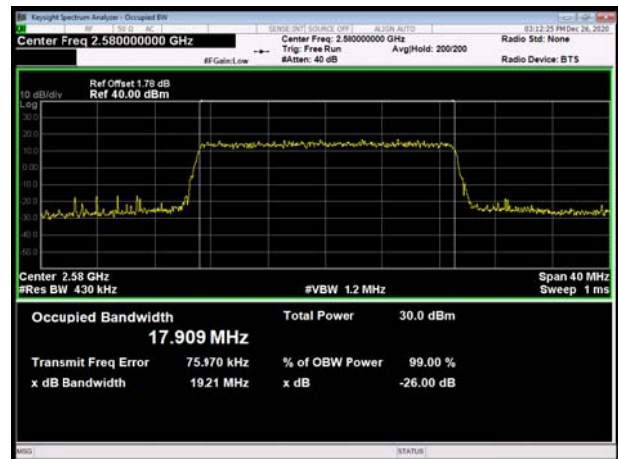




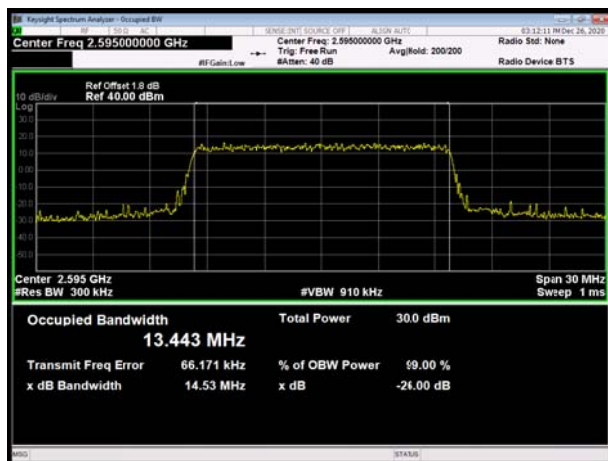
LTE Band 38 QPSK 15MHz CH-Low



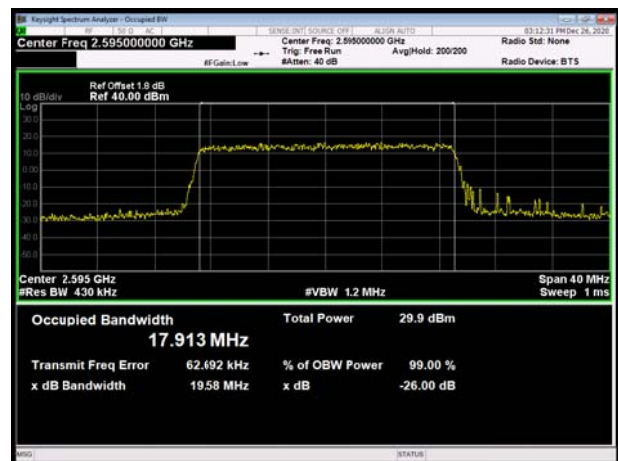
LTE Band 38 QPSK 20MHz CH-Low



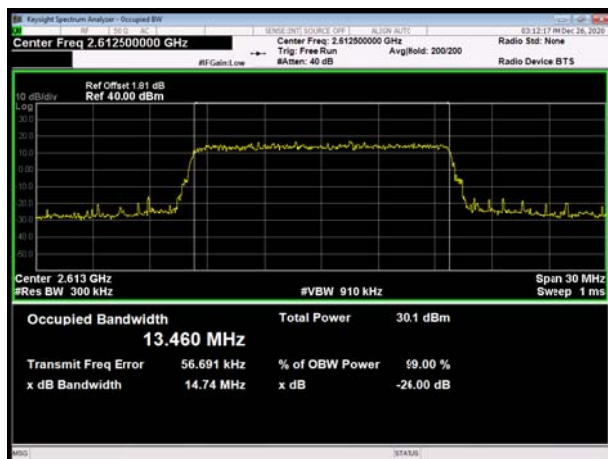
LTE Band 38 QPSK 15MHz CH-Middle



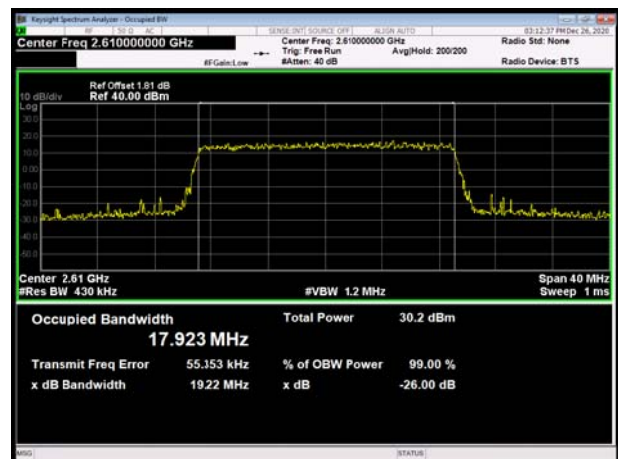
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High

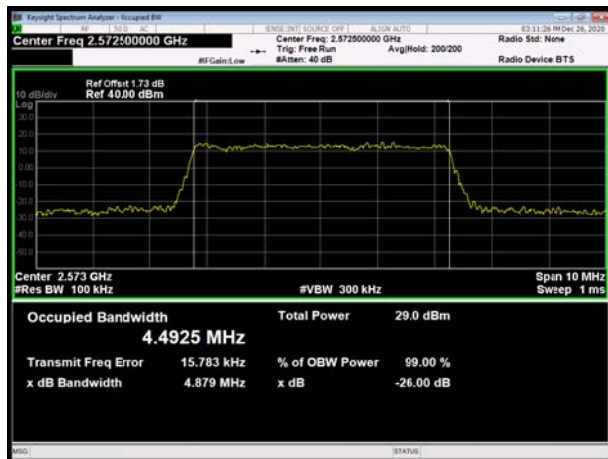


LTE Band 38 QPSK 20MHz CH-High

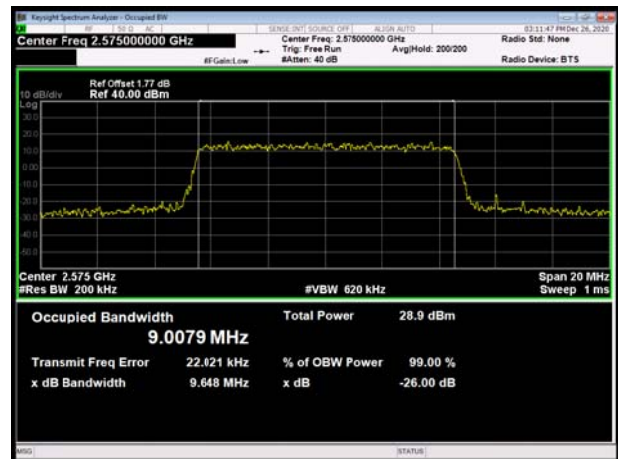




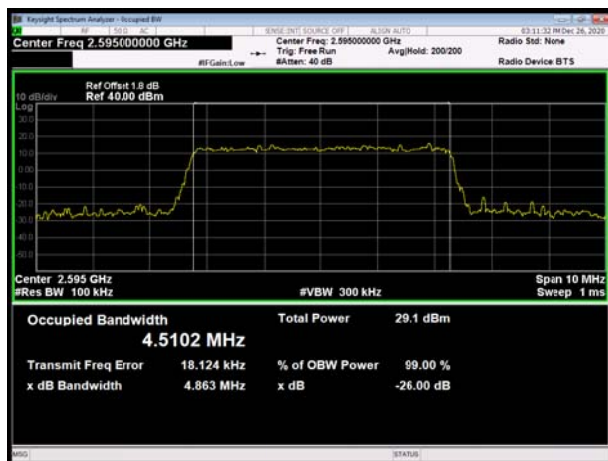
LTE Band 38 16QAM 5MHz CH-Low



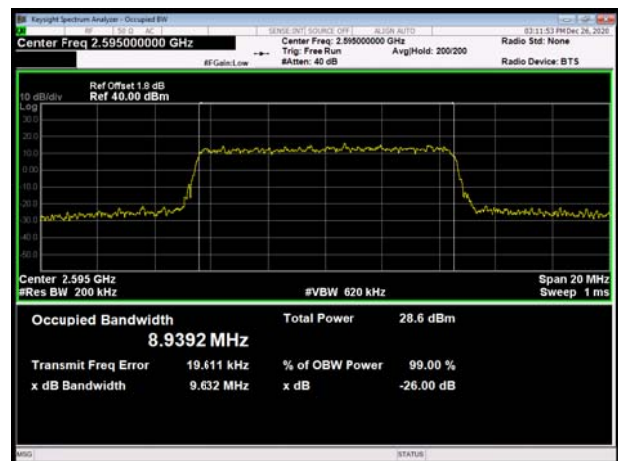
LTE Band 38 16QAM 10MHz CH-Low



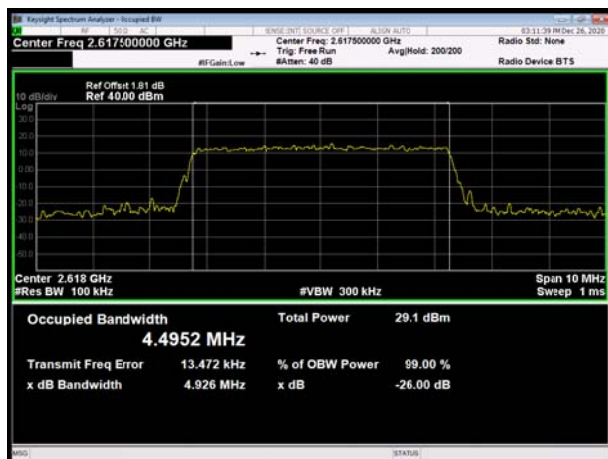
LTE Band 38 16QAM 5MHz CH-Middle



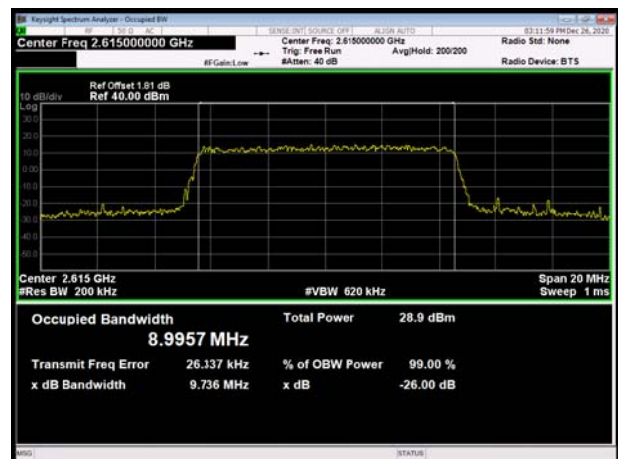
LTE Band 38 16QAM 10MHz CH-Middle



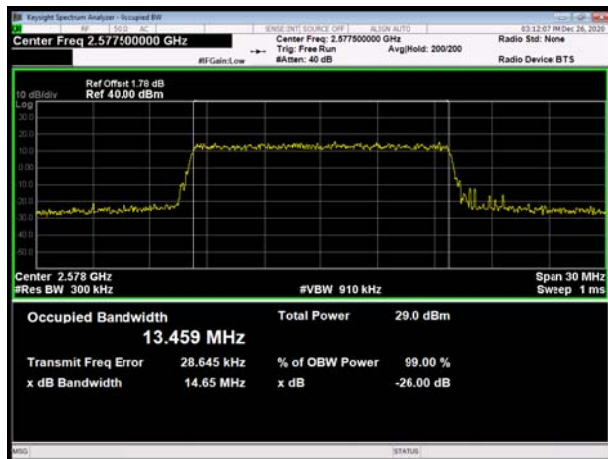
LTE Band 38 16QAM 5MHz CH-High



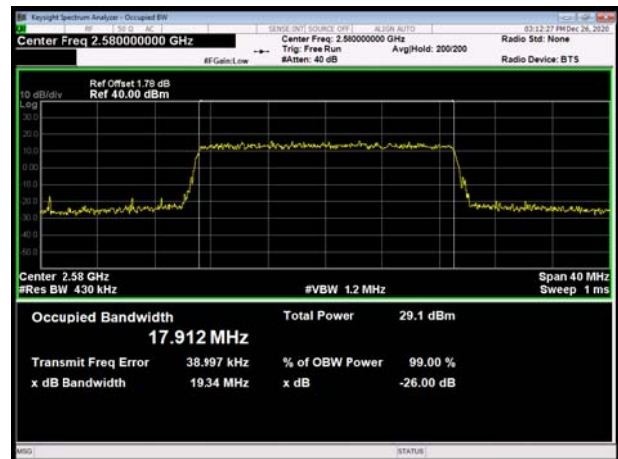
LTE Band 38 16QAM 10MHz CH-High



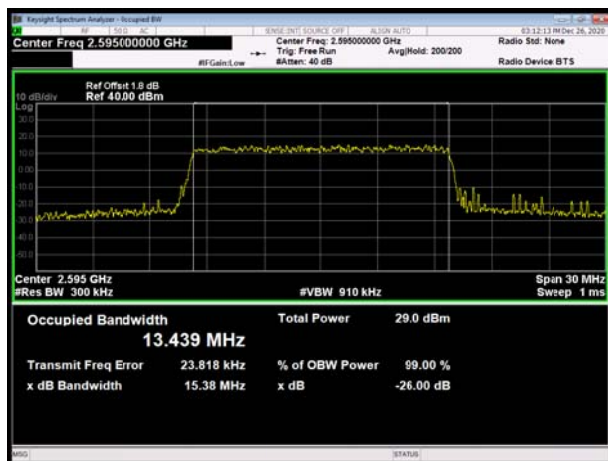
LTE Band 38 16QAM 15MHz CH-Low



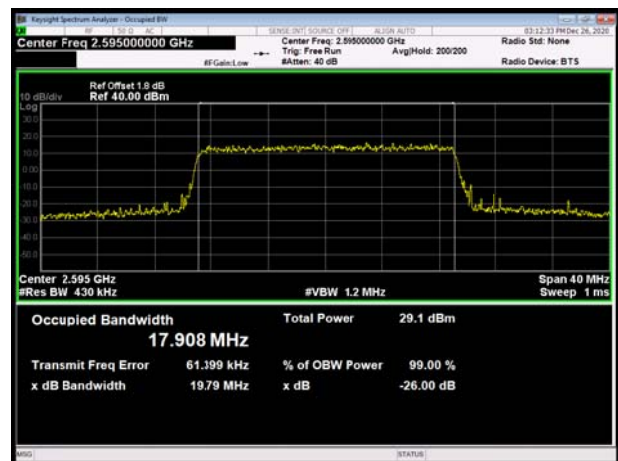
LTE Band 38 16QAM 20MHz CH-Low



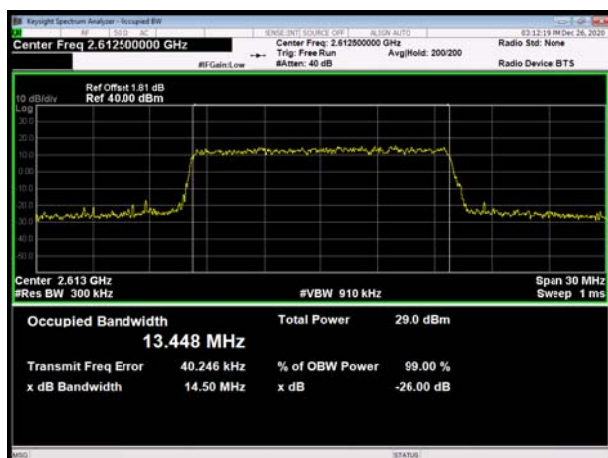
LTE Band 38 16QAM 15MHz CH-Middle



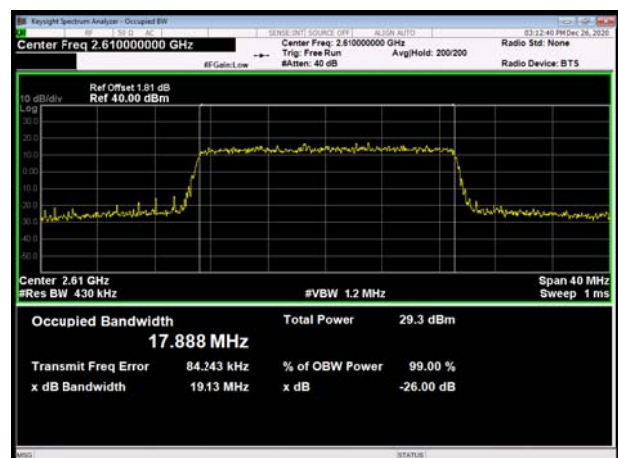
LTE Band 38 16QAM 20MHz CH-Middle



LTE Band 38 16QAM 15MHz CH-High

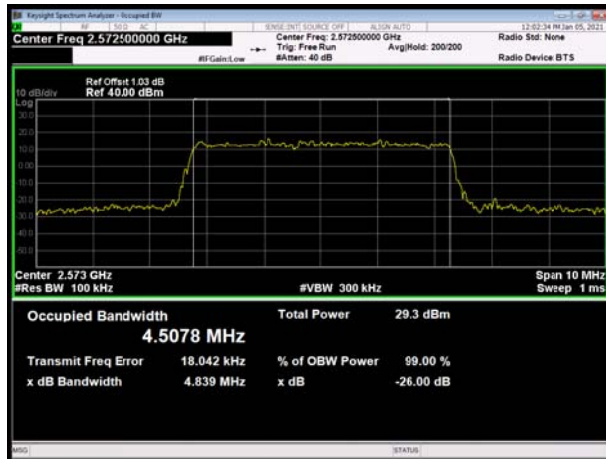


LTE Band 38 16QAM 20MHz CH-High

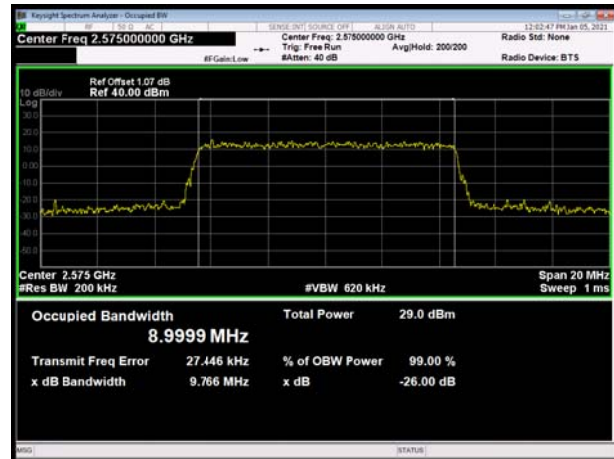




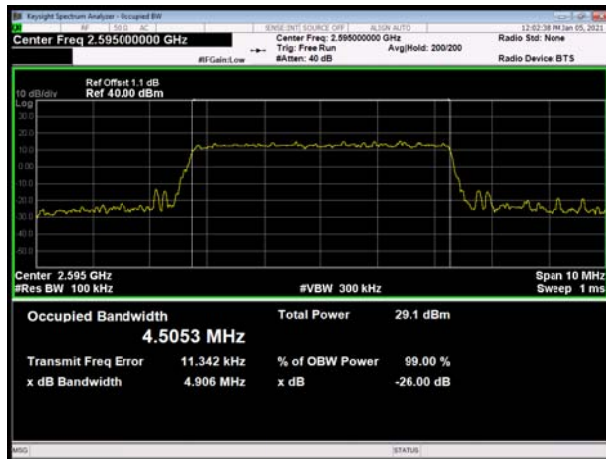
LTE Band 38 64QAM 5MHz CH-Low



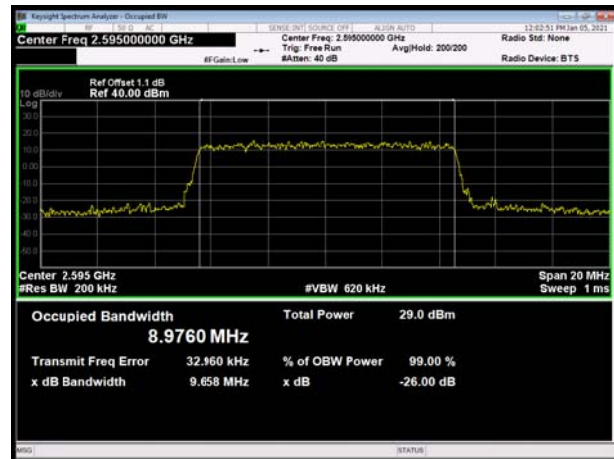
LTE Band 38 64QAM 10MHz CH-Low



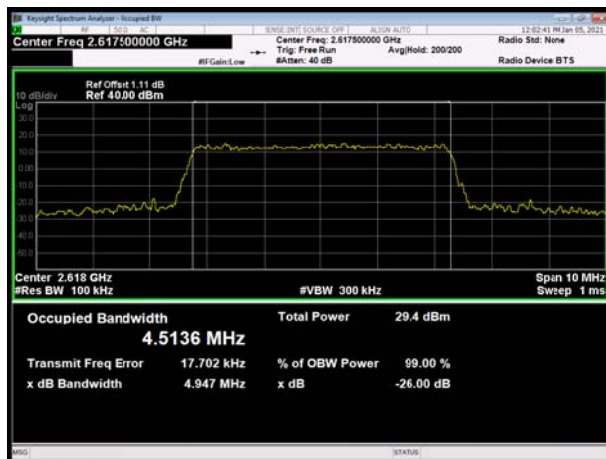
LTE Band 38 64QAM 5MHz CH-Middle



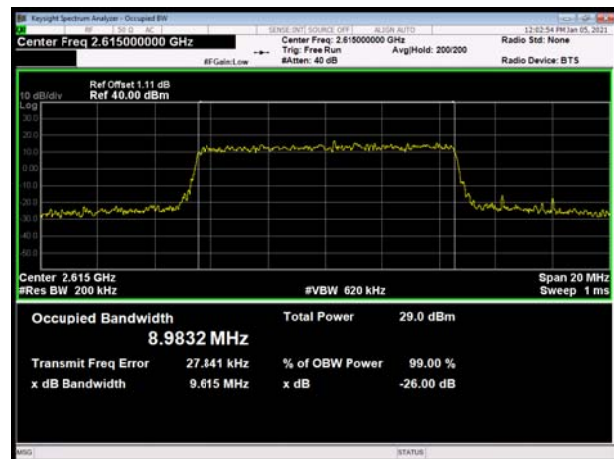
LTE Band 38 64QAM 10MHz CH-Middle



LTE Band 38 64QAM 5MHz CH-High

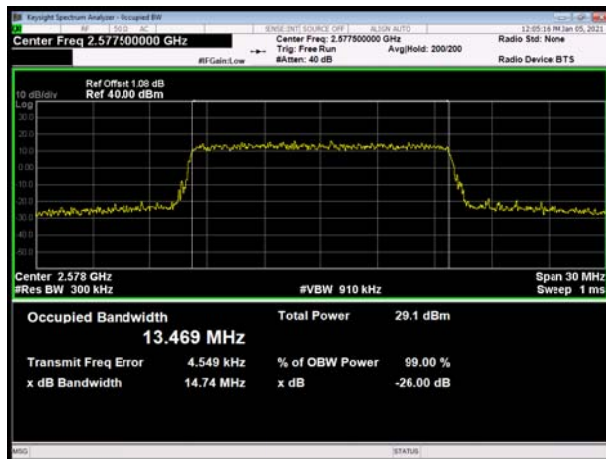


LTE Band 38 64QAM 10MHz CH-High

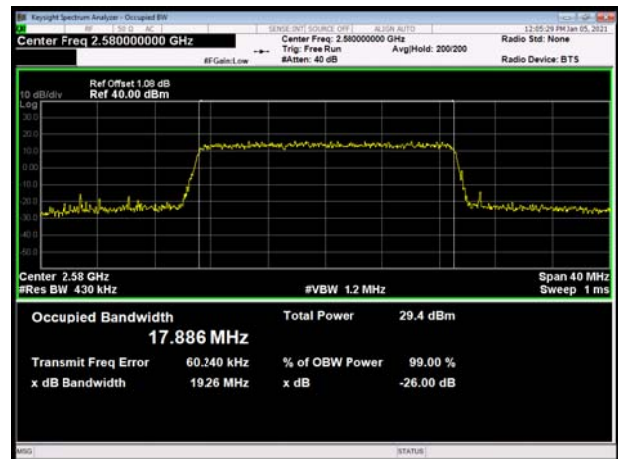




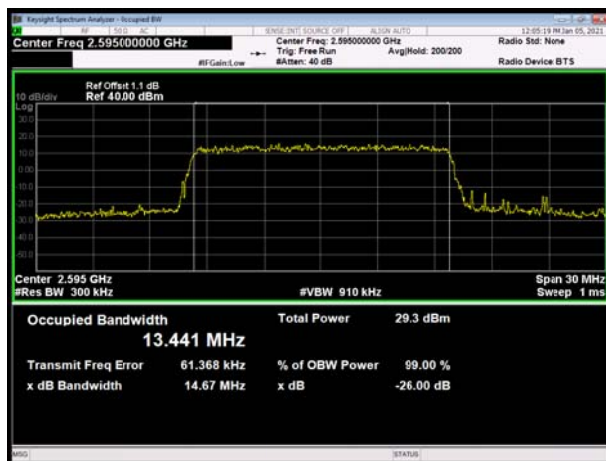
LTE Band 38 64QAM 15MHz CH-Low



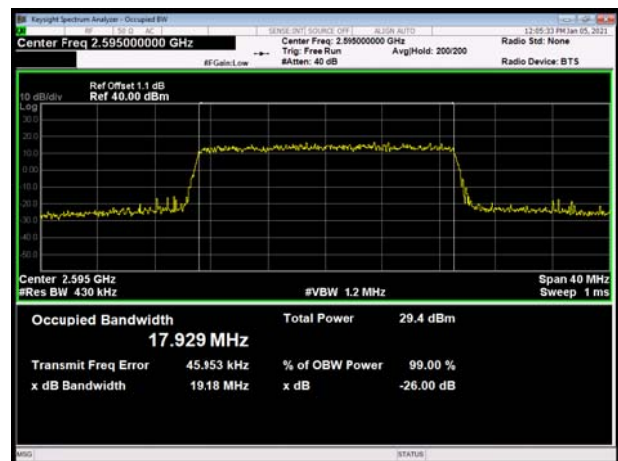
LTE Band 38 64QAM 20MHz CH-Low



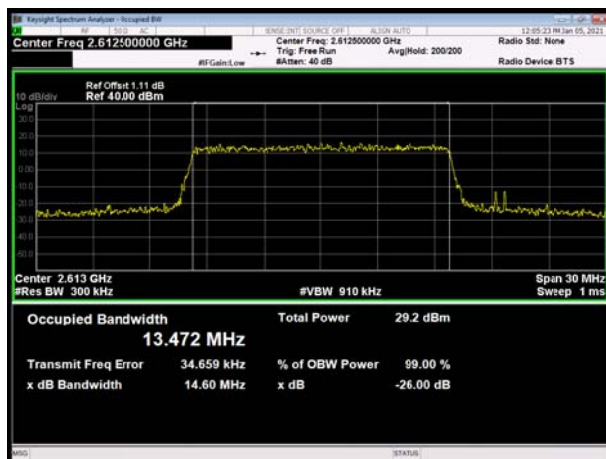
LTE Band 38 64QAM 15MHz CH-Middle



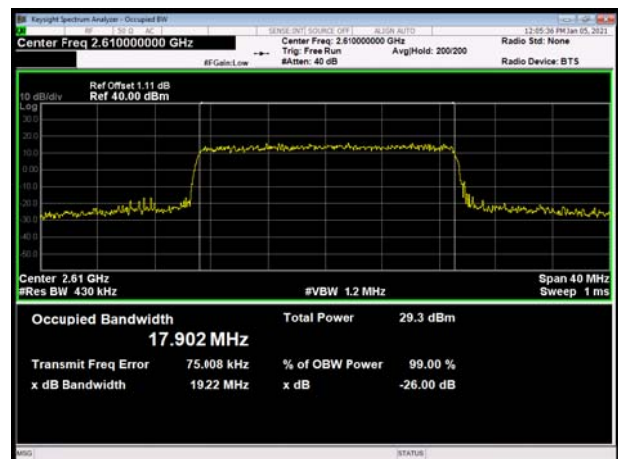
LTE Band 38 64QAM 20MHz CH-Middle



LTE Band 38 64QAM 15MHz CH-High



LTE Band 38 64QAM 20MHz CH-High



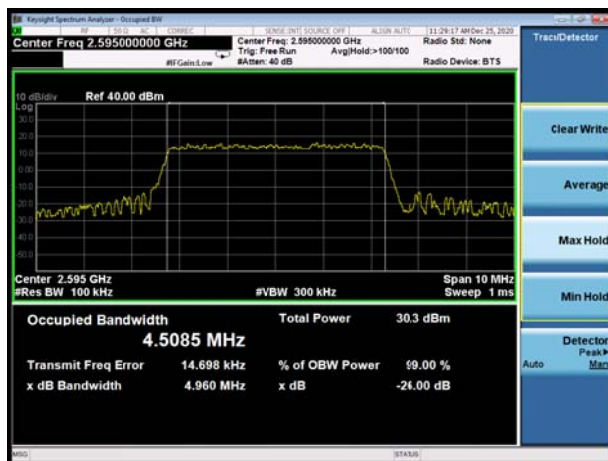
LTE Band 41 QPSK 5MHz CH-Low



LTE Band 41 QPSK 10MHz CH-Low



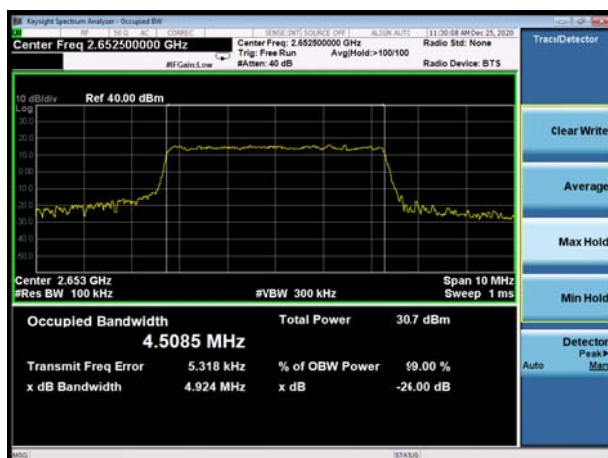
LTE Band 41 QPSK 5MHz CH-Middle



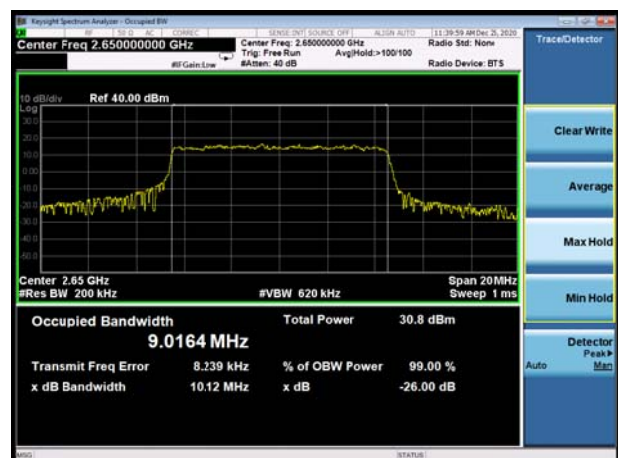
LTE Band 41 QPSK 10MHz CH-Middle



LTE Band 41 QPSK 5MHz CH-High



LTE Band 41 QPSK 10MHz CH-High





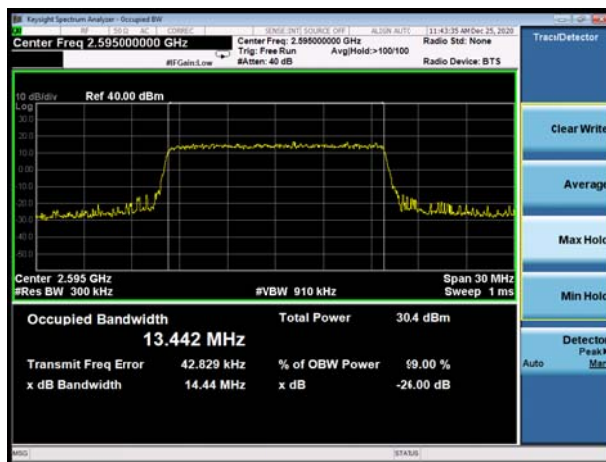
LTE Band 41 QPSK 15MHz CH-Low



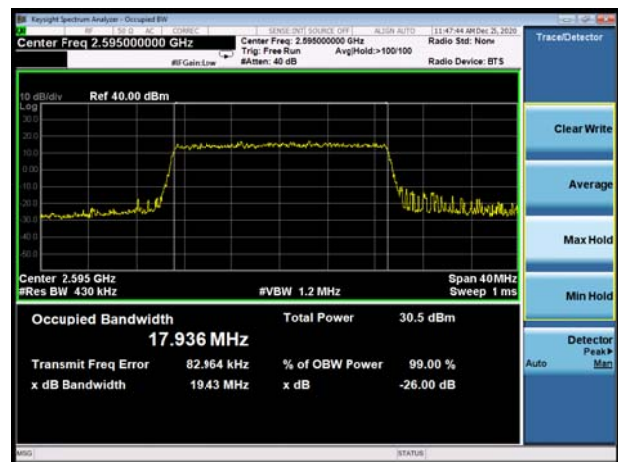
LTE Band 41 QPSK 20MHz CH-Low



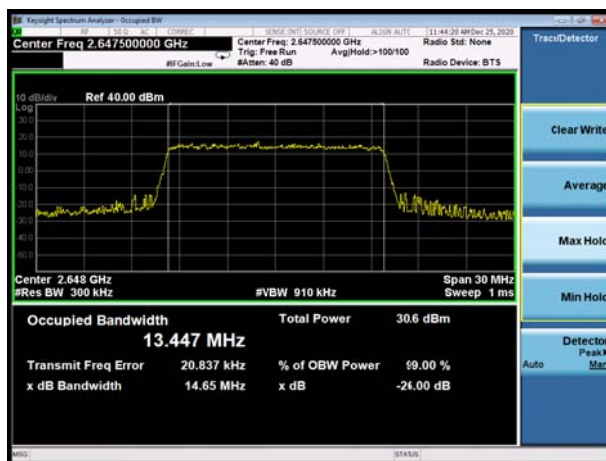
LTE Band 41 QPSK 15MHz CH-Middle



LTE Band 41 QPSK 20MHz CH-Middle



LTE Band 41 QPSK 15MHz CH-High



LTE Band 41 QPSK 20MHz CH-High

