



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-ZTE7540NMX
Product 5G NR Multi model smart phone
Model ZTE 7540N
Report No. R2206A0499-R3
Issue Date July 18, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. 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(b)(10) /27.50(c)(10) /27.50(h)(2) 27.50(k) (3) / 27.50(j) (3)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(g) /27.53(f) /27.53(c) /27.53(m) 27.53(n) (2) / 27.53(l) (2)	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(g) /27.53(f) /27.53(c) /27.53(m) 27.53(n) (2) / 27.53(l) (2)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(m) / 27.53(a)	PASS
Date of Testing: June 16, 2022 ~ July 1, 2022			
Date of Sample Received: June 10, 2022			
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:	Building 3, No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

2.2 General information

EUT Description			
Model	ZTE 7540N		
SN	324225110229		
Hardware Version	zs9A		
Software Version	MyOS11.0.0_7540N_TEL		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Antenna	Gain
	WCDMA Band IV	Antenna 7	-3.10dBi
	LTE Band 4	Antenna 7	-3.10dBi
	LTE Band 7	Antenna 6	-1.80dBi
	LTE Band 12	Antenna 0	-4.20dBi
	LTE Band 13	Antenna 0	-4.20dBi
	LTE Band 17	Antenna 0	-4.20dBi
	LTE Band 38	Antenna 6	-2.70dBi
	LTE Band 40	Antenna 6	-2.70dBi
	LTE Band 66	Antenna 7	-3.10dBi
	NR n7	Antenna 6	-1.80dBi
	NR n40	Antenna 6	-2.70dBi
	NR n66	Antenna 7	-3.10dBi
	NR n78	Antenna 5	-2.50dBi
Test Mode(s)	WCDMA Band	WCDMA Band IV	
	LTE Band	LTE Band 4/7/12/13/17/38/40/66	
	CA Band	CA_7C	
	SA Band	NR n7/NR n40/ NR n66/ NR n78	
	NSA Band	DC_2A-n7A/DC_28A-n7A/ DC_2A-n66A/DC_7A-n66A/DC_66A-n66A/	



		DC_28A-n66A DC_2A-n78A/DC_5A-n78A/DC_28A-n78A/ DC_7A-n78A/DC_66A-n78A
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE) QPSK, 16QAM, 64QAM; (NR) CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	
GPRS Multislot Class	12	
EGPRS Multislot Class	12	
HSDPA UE Category	24	
HSUPA UE Category	6	
LTE Category	13	
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV	20.09dBm
	LTE Band 4	19.79dBm
	LTE Band 7	20.76dBm
	LTE Band 12	16.97dBm
	LTE Band 13	16.83dBm
	LTE Band 17	16.42dBm
	LTE Band 38	20.35dBm
	LTE Band 40 Subset 1:	20.28dBm
		84.938mW/MHz
		174.181mW/5MHz
	LTE Band 40 Subset 2:	20.31dBm
		70.323mW/MHz
		143.913mW/5MHz
	LTE Band 66	19.77dBm
	CA_7C	20.25dBm
	NR n7	20.73dBm
	DC_28A (Subset 1)-n7A	19.42dBm
	NR n40 Subset 1	20.25dBm
		42.355mW/MHz
		75.648mW/5MHz
	NR n40 Subset 2	20.10dBm
		42.384mW/MHz
		84.684mW/5MHz
	NR n66	19.76dBm
	DC_2A-n66A	20.30dBm
	NR n78 Subset 1	22.44dBm
	DC_5A-n78A (Subset 1)	19.41dBm
Rated Power Supply Voltage	3.87V	



Operating Voltage	Minimum: 3.50V Maximum: 4.45V		
Operating Temperature	Lowest: -10°C Highest: +55°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 17	704 ~ 716	734~ 746
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 40 Subset 1	2305 ~ 2315	2305 ~ 2315
	LTE Band 40 Subset 2	2350 ~ 2360	2350 ~ 2360
	LTE Band 41	2496 ~ 2690	2496 ~ 2690
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
	NR n7	2500 ~ 2570	2620 ~ 2690
	NR n40 Subset 1	2305 ~ 2315	2305 ~ 2315
	NR n40 Subset 2	2350 ~ 2360	2350 ~ 2360
	NR n66	1710~1780	2110 ~ 2180
	NR n78 Subset 1	3450 ~ 3550	3450 ~ 3550
EUT Accessory			
Adapter 1	Manufacturer: Jiangsu Chenyang Electron CO.LTD Model: STC-A520A-Z		
Adapter 2	Manufacturer: Shenzhen Ruijing Industrial Co Ltd Model: STC-A520A-Z		
Battery	Manufacturer: ZHONGSHAN TIANMAO BATTERY CO.LTD. Model: Li3839T44P8h866445		
USB Cable1	Manufacturer: Shenzhen Luxshare Precision Industry Co.,Ltd. Model: USB-TC20-W-70-M-L		
USB Cable 2	Manufacturer: Dongguan Guojun Plastic Electronic Co.,Ltd Model: USB-TC20-W-70-M-L		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. There are more than one Adapter and USB Cable, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 1, and USB Cable 2) will be recorded in this report. 3) According to FCC Part 27: Active antenna system= AAS NR Band n78 does not cover the complete 3700-3980MHz frequency band.Part27 requires that device be capable of operating across the entire band so n78 must be disabled for the 27.50j band. P: Partially covered by FCC/ISED rules			



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 (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization for GSM/WCDMA/CA Band /NR/EN_DC, X axis, vertical polarization for LTE) 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/NR 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/AMR HSDPA/HSUPA 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
4/7/12/13/17/38/ LTE 40 Subset 1/ LTE 40 Subset 2/66:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 17	-	-	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 40 Subset 1	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 40 Subset 2	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 17	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 40 Subset 1	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 40 Subset 2	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 13	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 17	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 40 Subset 1	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 40 Subset 2	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 17	-	-	O	O	-	-	O	O	-	-	O	O	O	O



	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 40 Subset 1	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 40 Subset 2	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 12	O	O	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 17	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 38	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 40 Subset 1	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 40 Subset 2	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 12	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 17	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 40 Subset 1	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 40 Subset 2	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 17	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 38	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 40 Subset 1	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 40 Subset 2	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 66	-	-	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.														

Test modes are chosen to be reported as the worst case configuration below for NR n7/ DC_2A-n7A



/DC_28A-n7A /NR n40 Subset 1/ NR n40 Subset 2/NR n66 /DC_2A-n66A/DC_7A-n66A /

DC_66A-n66A /DC_28A-n66A/NR n78 Subset 1 / DC_2A-n78A (Subset 1)/DC_5A-n78A (Subset 1)/

DC_7A-n78A (Subset 1)/DC_28A (Subset 1) -n78A (Subset 1)/ DC_66A-n78A (Subset 1)

Test items	Mode	Bandwidth (MHz)														Modulation					RB			Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50%	100%	L	M	H	
RF Power Output and Effective Isotropic Radiated Power	NR n7	O	O	O	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_28A (Subset 1) -n7A	O	O	O	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	NR n66	O	O	O	O	O	O	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	DC_2A-n66A	O	O	O	O	O	O	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	
	DC_7A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_28A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NR n78 Subset 1	-	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_5A-n78A (Subset 1)	-	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	DC_7A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_28A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Occupied Bandwidth	NR n7	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A (Subset 1) -n7A	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	NR n66	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n66A	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_5A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	NR n78 Subset 1	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_5A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	-	O	O	O	O	
	DC_7A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Band Edge Compliance	NR n7	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A (Subset 1) -n7A	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	



	NR n66	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n66A	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	O	O	O	O	
	DC_5A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	NR n78 Subset 1	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	-	O	O	O	O	
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_5A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	-	O	O	O	O	
	DC_7A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_28A (Subset 1) -n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Peak-to-Average Power Ratio	NR n7	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O
DC_2A-n7A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_28A (Subset 1) -n7A		-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O	O
NR n40 Subset 1		-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O	O
NR n40 Subset 2		-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O	O
NR n66		-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O	O
DC_2A-n66A		-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	O	O	O	O
DC_5A_n66A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_66A-n66A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_28A_n66A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NR n78 Subset 1		-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	-	-	O	O	O	O
DC_2A-n78A (Subset 1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_5A-n78A (Subset 1)		-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	-	-	O	O	O	O
DC_7A-n78A (Subset 1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_28A (Subset 1) -n78A (Subset 1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DC_66A-n78A (Subset 1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Frequency Stability	NR n7	O	O	O	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_28A (Subset 1) -n7A	O	O	O	O	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	NR n66	O	O	O	O	O	O	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	DC_2A-n66A	O	O	O	O	O	O	-	-	-	-	-	-	-	O	O	O	O	O	O	-	-	-	O	-	
	DC_5A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_28A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NR n78 Subset 1	-	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-	
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	DC_5A-n78A (Subset 1)	-	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-	
	DC_7A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



	DC_28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spurious Emissions at Antenna Terminals	NR n7	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_28A (Subset 1) -n7A	-	-	-	O	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-	-
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-
	NR n66	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-
	DC_2A-n66A	-	-	-	O	-	-	-	-	-	-	-	-	-	O	O	O	O	-	O	-	-	-	O	-
	DC_5A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_28A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n78 Subset 1	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O	-
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O	-	O	-	-	-	O	-
	DC_7A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radiates Spurious Emission	NR n7	O	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	DC_2A-n7A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_28A (Subset 1) -n7A	O	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	NR n40 Subset 1	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	NR n40 Subset 2	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	NR n66	-	-	-	O	-	-	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_28A_n66A	O	-	-	O	-	-	O	-	-	-	-	-	-	-	-	-	-	O	-	-	-	O	-	-
	NR n78 Subset 1	-	-	-	O	-	-	O	-	O	-	-	-	O	-	-	-	-	O	-	-	-	O	-	-
	DC_2A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_7A-n78A (Subset 1)	-	-	-	O	-	-	-	O	-	-	-	-	O	-	-	-	-	O	-	-	-	O	-	-
	DC_28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n78A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: 1. The mark "O" means that this configuration is chosen for testing.

2. The mark "-" means that this configuration is not testing.

3. Sub 6GHz operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports PI/2 BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

5 Test Case

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.

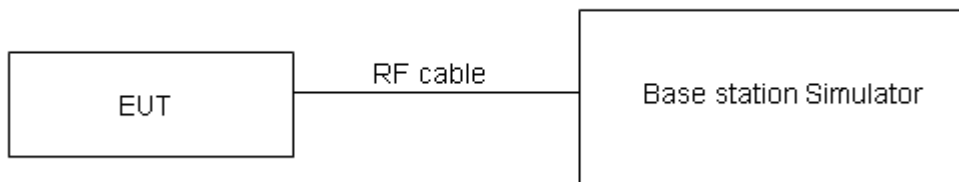
ERP can then be calculated as follows:

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

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

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

Test Setup



Limits

Rule Part 27.50(b) (10) specifies that “Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP”

Rule Part 27.50(c) (10) specifies that “Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP”

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.”

Rule Part 27.50(a) (3) specifies that “(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250



milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. "

Rule Part 27.50(k) (3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

Rule Part 27.50(j) (3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

Part 27.50(a)(3)Limit	$\leq$ 250 mW (24 dBm)
Part 27.50(b)(10)Limit	$\leq$ 3 W (34.77 dBm)
Part 27.50(c)(10)Limit	$\leq$ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	$\leq$ 1 W (30 dBm)
Part 27.50(h)(2) Limit	$\leq$ 2 W (33 dBm)
Part 27.50(k) (3)/ (j) (3) Limit	$\leq$ 1 W (30 dBm)

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

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

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

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

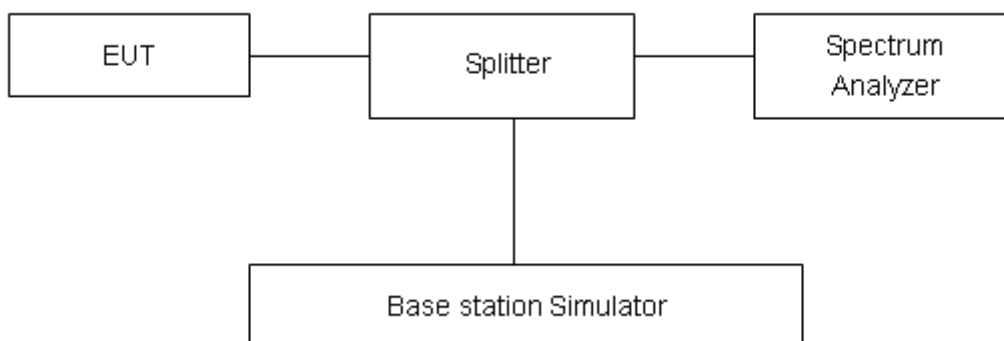
Method of Measurement

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 Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

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

Method of Measurement

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

The testing follows KDB 971168 D01 v03r01 Section 6.0

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

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

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

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

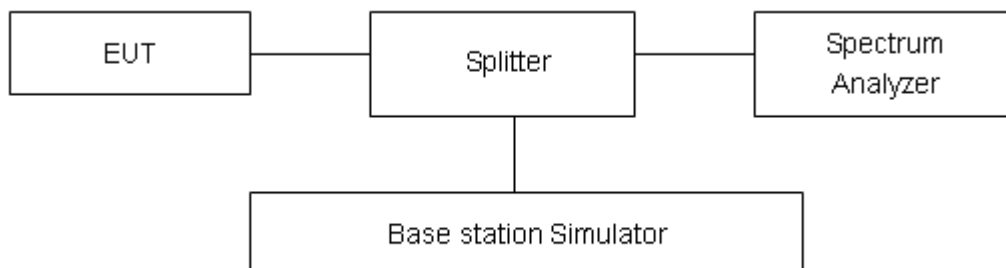
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

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

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

Test Setup



Limits

Rule Part 27.53(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz.

Rule Part 27.53(a) (3) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 47 CFR Part 27 -- Miscellaneous Wireless Communications Services and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43



+ 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz. (5) Measurement procedure.

Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one on spectrum analyzer. Set spectrum analyzer with RMS detector. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. Checked that all the results comply with the emission limit line.

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

Rule Part 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(m) (4) specifies that “for BRS and EBS stations. For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Example:

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

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

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



Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Rule Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.



Measurement Uncertainty

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

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

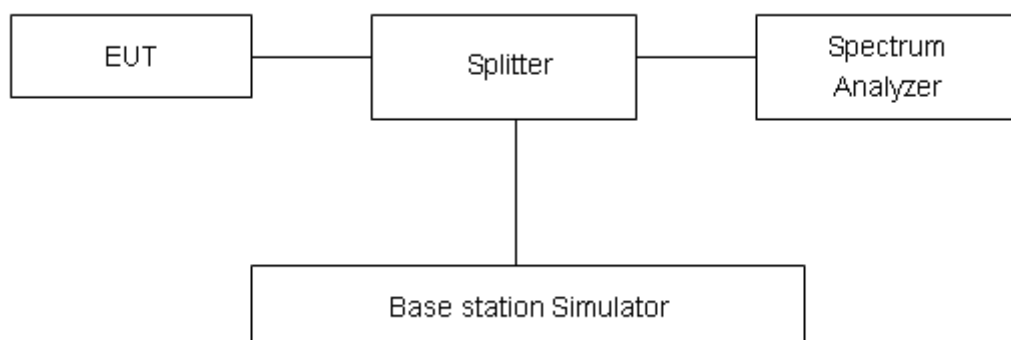
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

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

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

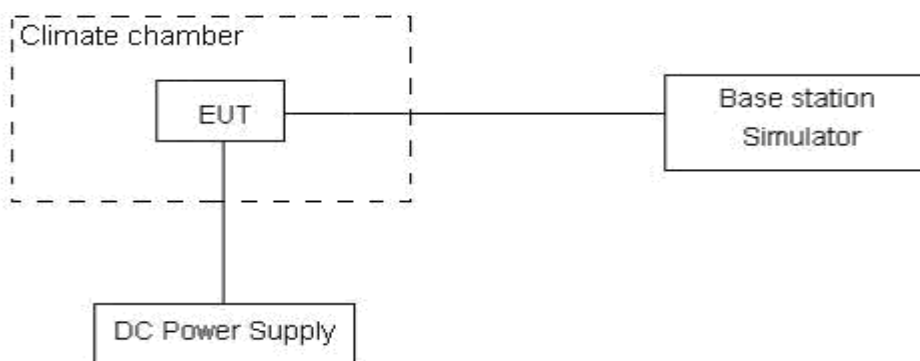
(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.50 V and 4.45 V, with a nominal voltage of 3.87V.

Test setup



Limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U=0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

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 measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100 kHz; VBW is set to 300 kHz for 30MHz~1GHz

RBW is set to 1MHz; VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

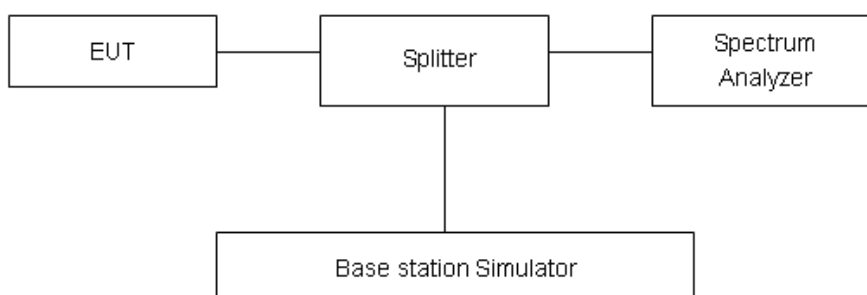
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

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

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.



Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation. Rule Part 27.53(m) $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Rule Part 27.53(a)(4)(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is



defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Part 27.53(a)/(h)/(g) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm
Part 27.53(n) (2)/ Part 27.53(l) (2) Limit		-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-40GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiates Spurious Emission

Ambient condition

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

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAG) should be recorded after test.
7. The measurement results are obtained as described below:

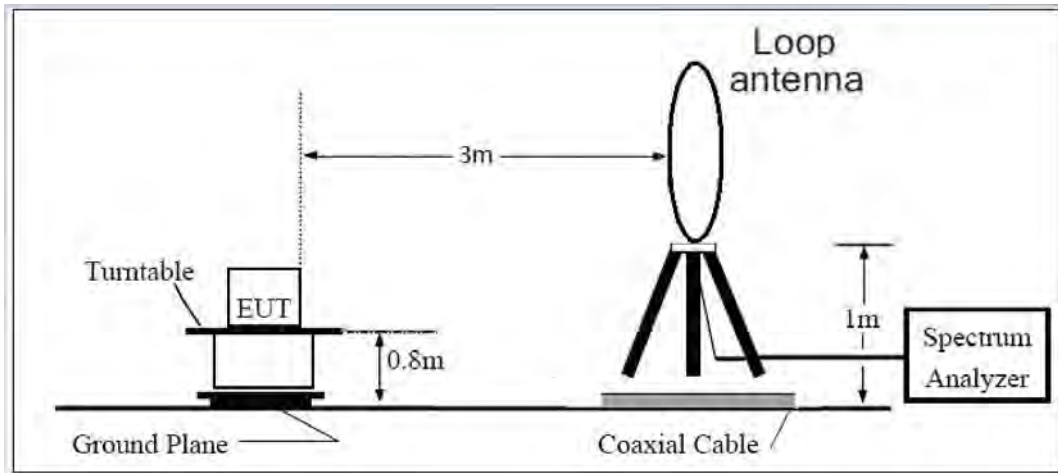
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power (EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

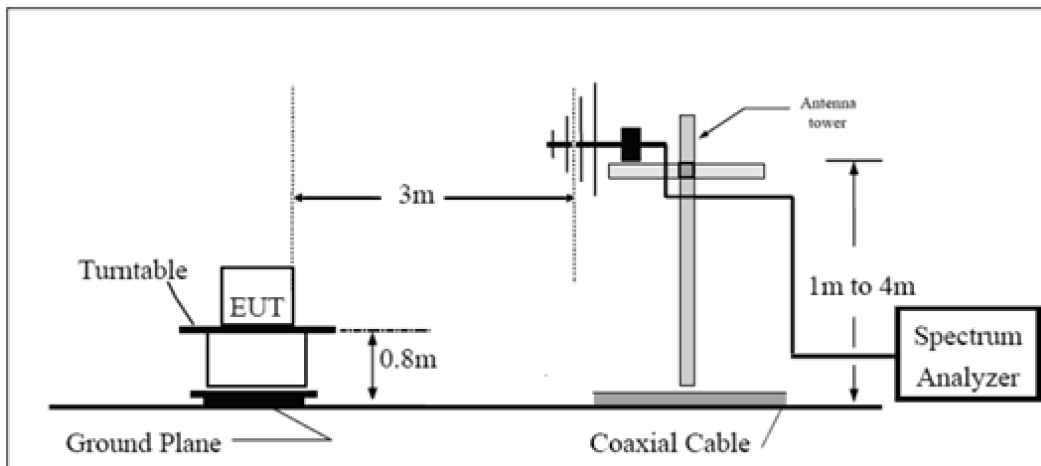
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

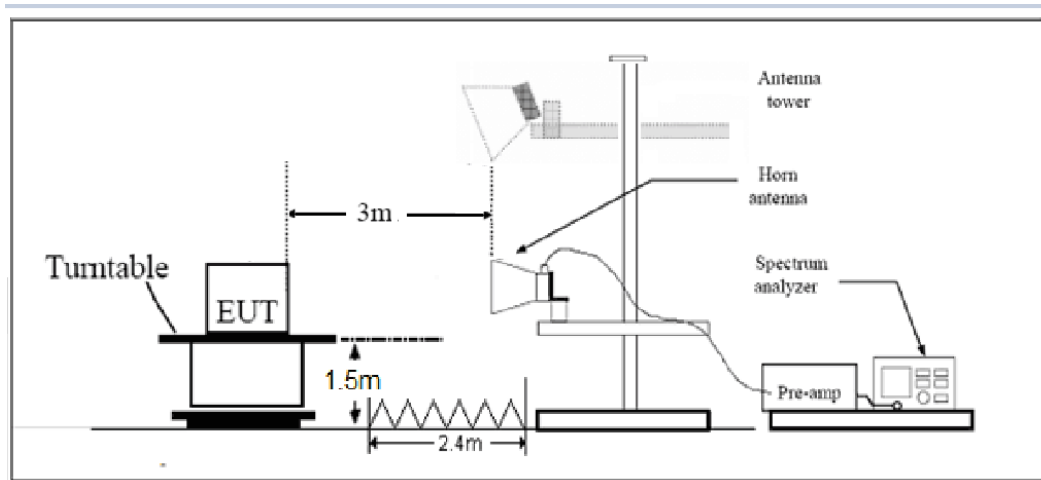
9 KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m



Limits

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

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(m) $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Rule Part 27.53(n) (2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500

kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Rule Part 27.53(l) (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Part 27.53(a)/(h)/(g) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm
Part 27.53(n) (2)/ Part 27.53(l) (2) Limit		-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel/Frenqucy(MHz)			Channel/Frenqucy(MHz)		
		1312/ 1712.4	1413/ 1732.6	1513/ 1752.6	1312/ 1712.4	1413/ 1732.6	1513/ 1752.6
RMC	12.2k	23.02	23.05	23.03	19.92	19.95	19.93
AMR	12.2k	22.88	23.19	23.05	19.78	20.09	19.95
HSDPA	Subtest 1	22.06	22.03	22.17	18.96	18.93	19.07
	Subtest 2	21.88	22.11	22.17	18.78	19.01	19.07
	Subtest 3	21.46	21.61	21.69	18.36	18.51	18.59
	Subtest 4	21.36	21.43	21.65	18.26	18.33	18.55
HSUPA	Subtest 1	21.76	21.59	21.59	18.66	18.49	18.49
	Subtest 2	20.06	20.05	20.17	16.96	16.95	17.07
	Subtest 3	20.98	20.99	21.05	17.88	17.89	17.95
	Subtest 4	19.94	19.89	20.19	16.84	16.79	17.09
	Subtest 5	21.54	21.57	21.87	18.44	18.47	18.77
HSPA+	16QAM	20.65	20.86	20.64	17.55	17.76	17.54

LTE Band 4				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				19957/ 1710.7	20175/ 1732.5	20393/ 1754.3	19957/ 1710.7	20175/ 1732.5	20393/ 1754.3
1.4MHz	QPSK	1	0	22.85	22.75	22.71	19.75	19.65	19.61
		1	2	22.84	22.78	22.84	19.74	19.68	19.74
		1	5	22.65	22.58	22.64	19.55	19.48	19.54
		3	0	22.80	22.75	22.75	19.70	19.65	19.65
		3	2	22.71	22.72	22.76	19.61	19.62	19.66
		3	3	22.71	22.65	22.68	19.61	19.55	19.58
		6	0	21.79	21.74	21.82	18.69	18.64	18.72
	16QAM	1	0	22.20	22.15	22.19	19.10	19.05	19.09
		1	2	22.12	22.07	22.08	19.02	18.97	18.98
		1	5	22.02	21.92	21.95	18.92	18.82	18.85
		3	0	21.74	21.61	21.66	18.64	18.51	18.56
		3	2	21.82	21.72	21.75	18.72	18.62	18.65
		3	3	21.76	21.65	21.67	18.66	18.55	18.57
		6	0	20.78	20.68	20.73	17.68	17.58	17.63
	64QAM	1	0	21.20	21.09	21.13	18.10	17.99	18.03
		1	2	21.05	20.97	21.00	17.95	17.87	17.90



		1	5	20.74	20.68	20.69	17.64	17.58	17.59
		3	0	20.77	20.61	20.70	17.67	17.51	17.60
		3	2	20.85	20.73	20.78	17.75	17.63	17.68
		3	3	20.73	20.63	20.65	17.63	17.53	17.55
		6	0	19.78	19.70	19.75	16.68	16.60	16.65
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5	19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
3MHz	QPSK	1	0	22.87	22.79	22.74	19.77	19.69	19.64
		1	7	22.82	22.81	22.88	19.72	19.71	19.78
		1	14	22.68	22.63	22.68	19.58	19.53	19.58
		8	0	21.90	21.87	21.88	18.80	18.77	18.78
		8	4	21.83	21.82	21.88	18.73	18.72	18.78
		8	7	21.81	21.76	21.78	18.71	18.66	18.68
		15	0	21.79	21.78	21.85	18.69	18.68	18.75
	16QAM	1	0	22.20	22.17	22.22	19.10	19.07	19.12
		1	7	22.12	22.07	22.12	19.02	18.97	19.02
		1	14	22.04	21.96	21.98	18.94	18.86	18.88
		8	0	20.85	20.74	20.78	17.75	17.64	17.68
		8	4	20.93	20.85	20.87	17.83	17.75	17.77
		8	7	20.86	20.77	20.80	17.76	17.67	17.70
		15	0	20.81	20.72	20.76	17.71	17.62	17.66
	64QAM	1	0	21.23	21.11	21.16	18.13	18.01	18.06
		1	7	21.08	20.97	21.02	17.98	17.87	17.92
		1	14	20.76	20.67	20.72	17.66	17.57	17.62
		8	0	19.88	19.74	19.82	16.78	16.64	16.72
		8	4	19.96	19.86	19.90	16.86	16.76	16.80
		8	7	19.83	19.75	19.78	16.73	16.65	16.68
		15	0	19.81	19.74	19.78	16.71	16.64	16.68
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				19975/ 1712.5	20175/ 1732.5	20375/ 1752.5	19975/ 1712.5	20175/ 1732.5	20375/ 1752.5
5MHz	QPSK	1	0	22.84	22.77	22.70	19.74	19.67	19.60
		1	13	22.80	22.77	22.85	19.70	19.67	19.75
		1	24	22.65	22.58	22.64	19.55	19.48	19.54
		12	0	21.87	21.82	21.84	18.77	18.72	18.74
		12	6	21.81	21.78	21.83	18.71	18.68	18.73
		12	13	21.79	21.74	21.74	18.69	18.64	18.64
		25	0	21.79	21.77	21.83	18.69	18.67	18.73
	16QAM	1	0	22.20	22.13	22.19	19.10	19.03	19.09
		1	13	22.12	22.05	22.09	19.02	18.95	18.99
		1	24	22.01	21.94	21.94	18.91	18.84	18.84
		12	0	20.83	20.70	20.75	17.73	17.60	17.65



		12	6	20.90	20.80	20.83	17.80	17.70	17.73
		12	13	20.83	20.72	20.76	17.73	17.62	17.66
		25	0	20.79	20.68	20.71	17.69	17.58	17.61
	64QAM	1	0	21.20	21.11	21.13	18.10	18.01	18.03
		1	13	21.05	20.99	20.99	17.95	17.89	17.89
		1	24	20.77	20.65	20.68	17.67	17.55	17.58
		12	0	19.86	19.70	19.83	16.76	16.60	16.73
		12	6	19.93	19.81	19.86	16.83	16.71	16.76
		12	13	19.80	19.70	19.74	16.70	16.60	16.64
		25	0	19.79	19.70	19.73	16.69	16.60	16.63
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20000/ 1715	20175/ 1732.5	20350/ 1750	20000/ 1715	20175/ 1732.5	20350/ 1750
10MHz	QPSK	1	0	22.86	22.78	22.73	19.76	19.68	19.63
		1	25	22.83	22.82	22.89	19.73	19.72	19.79
		1	49	22.67	22.62	22.67	19.57	19.52	19.57
		25	0	21.90	21.87	21.88	18.80	18.77	18.78
		25	13	21.84	21.83	21.87	18.74	18.73	18.77
		25	25	21.81	21.78	21.79	18.71	18.68	18.69
		50	0	21.83	21.79	21.87	18.73	18.69	18.77
	16QAM	1	0	22.24	22.16	22.21	19.14	19.06	19.11
		1	25	22.16	22.09	22.12	19.06	18.99	19.02
		1	49	22.04	21.96	21.97	18.94	18.86	18.87
		25	0	20.86	20.75	20.79	17.76	17.65	17.69
		25	13	20.92	20.84	20.86	17.82	17.74	17.76
		25	25	20.86	20.77	20.80	17.76	17.67	17.70
		50	0	20.82	20.73	20.75	17.72	17.63	17.65
	64QAM	1	0	21.22	21.10	21.15	18.12	18.00	18.05
		1	25	21.08	20.99	21.02	17.98	17.89	17.92
		1	49	20.76	20.67	20.71	17.66	17.57	17.61
		25	0	19.89	19.75	19.83	16.79	16.65	16.73
		25	13	19.95	19.85	19.89	16.85	16.75	16.79
		25	25	19.83	19.75	19.78	16.73	16.65	16.68
		50	0	19.82	19.75	19.77	16.72	16.65	16.67
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5
15MHz	QPSK	1	0	22.85	22.74	22.71	19.75	19.64	19.61
		1	38	22.81	22.81	22.86	19.71	19.71	19.76
		1	74	22.64	22.57	22.63	19.54	19.47	19.53
		36	0	21.88	21.83	21.85	18.78	18.73	18.75
		36	18	21.81	21.78	21.83	18.71	18.68	18.73
		36	39	21.78	21.75	21.75	18.68	18.65	18.65



	16QAM	75	0	21.81	21.75	21.82	18.71	18.65	18.72
		1	0	22.22	22.14	22.19	19.12	19.04	19.09
		1	38	22.14	22.06	22.10	19.04	18.96	19.00
		1	74	22.02	21.92	21.94	18.92	18.82	18.84
		36	0	20.83	20.73	20.76	17.73	17.63	17.66
		36	18	20.89	20.79	20.82	17.79	17.69	17.72
		36	39	20.84	20.73	20.77	17.74	17.63	17.67
		75	0	20.79	20.68	20.71	17.69	17.58	17.61
	64QAM	1	0	21.17	21.08	21.13	18.07	17.98	18.03
		1	38	21.06	20.96	21.00	17.96	17.86	17.90
		1	74	20.77	20.66	20.72	17.67	17.56	17.62
		36	0	19.88	19.77	19.84	16.78	16.67	16.74
		36	18	19.93	19.82	19.88	16.83	16.72	16.78
		36	39	19.81	19.71	19.75	16.71	16.61	16.65
		75	0	19.79	19.70	19.73	16.69	16.60	16.63
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20050/ 1720	20175 /1732.5	20300/ 1745	20050/ 1720	20175 /1732.5	20300/ 1745
20MHz	QPSK	1	0	22.82	22.70	22.68	19.72	19.60	19.58
		1	50	22.80	22.77	22.84	19.70	19.67	19.74
		1	99	22.62	22.56	22.60	19.52	19.46	19.50
		50	0	21.85	21.78	21.81	18.75	18.68	18.71
		50	25	21.79	21.74	21.80	18.69	18.64	18.70
		50	50	21.75	21.70	21.71	18.65	18.60	18.61
		100	0	21.78	21.70	21.78	18.68	18.60	18.68
	16QAM	1	0	22.19	22.10	22.14	19.09	19.00	19.04
		1	50	22.11	22.04	22.06	19.01	18.94	18.96
		1	99	21.99	21.89	21.92	18.89	18.79	18.82
		50	0	20.80	20.69	20.73	17.70	17.59	17.63
		50	25	20.86	20.77	20.79	17.76	17.67	17.69
		50	50	20.81	20.68	20.73	17.71	17.58	17.63
		100	0	20.77	20.64	20.68	17.67	17.54	17.58
	64QAM	1	0	21.15	21.04	21.08	18.05	17.94	17.98
		1	50	21.02	20.94	20.96	17.92	17.84	17.86
		1	99	20.71	20.60	20.66	17.61	17.50	17.56
		50	0	19.83	19.69	19.77	16.73	16.59	16.67
		50	25	19.89	19.78	19.82	16.79	16.68	16.72
		50	50	19.78	19.66	19.71	16.68	16.56	16.61
		100	0	19.77	19.66	19.70	16.67	16.56	16.60



LTE Band 7				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20775/ 2502.5	21100/ 2535	21425/ 2567.5	20775/ 2502.5	21100 /2535	21425/ 2567.5
5MHz	QPSK	1	0	22.30	22.31	22.33	20.50	20.51	20.53
		1	13	22.42	22.42	22.44	20.62	20.62	20.64
		1	24	22.39	22.43	22.50	20.59	20.63	20.70
		12	0	21.51	21.56	21.57	19.71	19.76	19.77
		12	6	21.55	21.63	21.61	19.75	19.83	19.81
		12	13	21.54	21.62	21.60	19.74	19.82	19.80
		25	0	21.61	21.56	21.59	19.81	19.76	19.79
	16QAM	1	0	21.86	21.86	21.85	20.06	20.06	20.05
		1	13	21.82	21.84	21.89	20.02	20.04	20.09
		1	24	21.89	21.91	21.90	20.09	20.11	20.10
		12	0	20.58	20.54	20.62	18.78	18.74	18.82
		12	6	20.69	20.66	20.73	18.89	18.86	18.93
		12	13	20.57	20.55	20.64	18.77	18.75	18.84
		25	0	20.56	20.57	20.58	18.76	18.77	18.78
	64QAM	1	0	20.72	20.73	20.73	18.92	18.93	18.93
		1	13	20.77	20.78	20.78	18.97	18.98	18.98
		1	24	20.73	20.70	20.74	18.93	18.90	18.94
		12	0	19.54	19.49	19.62	17.74	17.69	17.82
		12	6	19.58	19.53	19.65	17.78	17.73	17.85
		12	13	19.62	19.62	19.68	17.82	17.82	17.88
		25	0	19.55	19.55	19.60	17.75	17.75	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20800/2 505	21100/2 535	21400/2 565	20800/2 505	21100 /2535	21400/ 2565
10MHz	QPSK	1	0	22.32	22.32	22.36	20.52	20.52	20.56
		1	25	22.45	22.47	22.48	20.65	20.67	20.68
		1	49	22.41	22.47	22.53	20.61	20.67	20.73
		25	0	21.54	21.61	21.61	19.74	19.81	19.81
		25	13	21.58	21.68	21.65	19.78	19.88	19.85
		25	25	21.56	21.66	21.65	19.76	19.86	19.85
		50	0	21.65	21.58	21.63	19.85	19.78	19.83
	16QAM	1	0	21.93	21.90	21.92	20.13	20.10	20.12
		1	25	21.90	21.88	21.86	20.10	20.08	20.06
		1	49	21.95	21.78	21.79	20.15	19.98	19.99
		25	0	20.61	20.59	20.66	18.81	18.79	18.86
		25	13	20.71	20.70	20.76	18.91	18.90	18.96
		25	25	20.60	20.60	20.68	18.80	18.80	18.88



	64QAM	50	0	20.59	20.62	20.62	18.79	18.82	18.82
		1	0	20.74	20.72	20.75	18.94	18.92	18.95
		1	25	20.80	20.78	20.81	19.00	18.98	19.01
		1	49	20.72	20.72	20.77	18.92	18.92	18.97
		25	0	19.57	19.54	19.62	17.77	17.74	17.82
		25	13	19.60	19.57	19.68	17.80	17.77	17.88
		25	25	19.65	19.67	19.72	17.85	17.87	17.92
		50	0	19.58	19.60	19.64	17.78	17.80	17.84
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20825/2 507.5	21100/2 535	21375/2 562.5	20825/2 507.5	21100 /2535	21375/ 2562.5
15MHz	QPSK	1	0	22.31	22.28	22.34	20.51	20.48	20.54
		1	38	22.43	22.46	22.45	20.63	20.66	20.65
		1	74	22.38	22.42	22.49	20.58	20.62	20.69
		36	0	21.52	21.57	21.58	19.72	19.77	19.78
		36	18	21.55	21.63	21.61	19.75	19.83	19.81
		36	39	21.53	21.63	21.61	19.73	19.83	19.81
		75	0	21.63	21.54	21.58	19.83	19.74	19.78
	16QAM	1	0	21.92	21.78	21.86	20.12	19.98	20.06
		1	38	21.88	21.92	21.90	20.08	20.12	20.10
		1	74	21.85	21.87	21.85	20.05	20.07	20.05
		36	0	20.58	20.57	20.63	18.78	18.77	18.83
		36	18	20.68	20.65	20.72	18.88	18.85	18.92
		36	39	20.58	20.56	20.65	18.78	18.76	18.85
		75	0	20.56	20.57	20.58	18.76	18.77	18.78
	64QAM	1	0	20.69	20.70	20.73	18.89	18.90	18.93
		1	38	20.78	20.75	20.79	18.98	18.95	18.99
		1	74	20.73	20.71	20.78	18.93	18.91	18.98
		36	0	19.56	19.56	19.63	17.76	17.76	17.83
		36	18	19.58	19.54	19.67	17.78	17.74	17.87
		36	39	19.63	19.63	19.69	17.83	17.83	17.89
		75	0	19.55	19.55	19.60	17.75	17.75	17.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				20850/2 510	21100/2 535	21350/2 560	20850/2 510	21100 /2535	21350/ 2560
20MHz	QPSK	1	0	22.28	22.24	22.31	20.48	20.44	20.51
		1	50	22.42	22.42	22.43	20.62	20.62	20.63
		1	99	22.36	22.41	22.56	20.56	20.61	20.76
		50	0	21.49	21.52	21.54	19.69	19.72	19.74
		50	25	21.53	21.59	21.58	19.73	19.79	19.78
		50	50	21.50	21.58	21.57	19.70	19.78	19.77
		100	0	21.60	21.49	21.54	19.80	19.69	19.74
	16QAM	1	0	21.86	21.82	21.75	20.06	20.02	19.95



		1	50	21.85	21.94	21.86	20.05	20.14	20.06
		1	99	21.84	21.75	21.77	20.04	19.95	19.97
		50	0	20.55	20.53	20.60	18.75	18.73	18.80
		50	25	20.65	20.63	20.69	18.85	18.83	18.89
		50	50	20.55	20.51	20.61	18.75	18.71	18.81
		100	0	20.54	20.53	20.55	18.74	18.73	18.75
	64QAM	1	0	20.67	20.66	20.68	18.87	18.86	18.88
		1	50	20.74	20.73	20.75	18.94	18.93	18.95
		1	99	20.67	20.65	20.72	18.87	18.85	18.92
		50	0	19.51	19.48	19.56	17.71	17.68	17.76
		50	25	19.54	19.50	19.61	17.74	17.70	17.81
		50	50	19.60	19.58	19.65	17.80	17.78	17.85
		100	0	19.53	19.51	19.57	17.73	17.71	17.77

LTE Band 12				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23017/ 699.7	23095/ 707.5	23173/ 715.3	23017/ 699.7	23095/ 707.5	23173/ 715.3
1.4MHz	QPSK	1	0	23.06	23.12	23.13	16.71	16.77	16.78
		1	2	23.32	23.18	23.05	16.97	16.83	16.70
		1	5	23.20	23.18	23.14	16.85	16.83	16.79
		3	0	23.27	23.10	22.89	16.92	16.75	16.54
		3	2	23.05	23.14	23.04	16.70	16.79	16.69
		3	3	23.23	23.11	22.93	16.88	16.76	16.58
		6	0	22.35	22.17	22.31	16.00	15.82	15.96
	16QAM	1	0	22.58	22.48	22.55	16.23	16.13	16.20
		1	2	22.73	22.66	22.68	16.38	16.31	16.33
		1	5	22.42	22.30	22.37	16.07	15.95	16.02
		3	0	22.24	22.11	22.17	15.89	15.76	15.82
		3	2	22.32	22.16	22.25	15.97	15.81	15.90
		3	3	22.35	22.21	22.27	16.00	15.86	15.92
		6	0	21.27	21.15	21.24	14.92	14.80	14.89
	64QAM	1	0	21.43	21.29	21.36	15.08	14.94	15.01
		1	2	21.12	21.03	21.07	14.77	14.68	14.72
		1	5	21.27	21.20	21.22	14.92	14.85	14.87
		3	0	21.07	20.94	21.00	14.72	14.59	14.65
		3	2	21.25	21.09	21.18	14.90	14.74	14.83
		3	3	21.24	21.10	21.16	14.89	14.75	14.81
		6	0	20.30	20.18	20.27	13.95	13.83	13.92
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23025/ 700.5	23095/ 707.5	23165/ 714.5	23025/ 700.5	23095/ 707.5	23165/ 714.5
3MHz	QPSK	1	0	23.06	23.11	23.13	16.71	16.76	16.78



		1	7	23.29	23.21	23.07	16.94	16.86	16.72
		1	14	23.19	23.17	23.13	16.84	16.82	16.78
		8	0	22.35	22.18	21.99	16.00	15.83	15.64
		8	4	22.15	22.20	22.11	15.80	15.85	15.76
		8	7	22.30	22.21	22.00	15.95	15.86	15.65
		15	0	22.37	22.18	22.31	16.02	15.83	15.96
		1	0	22.60	22.47	22.55	16.25	16.12	16.20
		1	7	22.75	22.65	22.70	16.40	16.30	16.35
		1	14	22.42	22.30	22.36	16.07	15.95	16.01
		8	0	21.33	21.23	21.27	14.98	14.88	14.92
		8	4	21.39	21.23	21.32	15.04	14.88	14.97
		8	7	21.43	21.29	21.37	15.08	14.94	15.02
		15	0	21.28	21.15	21.22	14.93	14.80	14.87
	16QAM	1	0	21.40	21.28	21.36	15.05	14.93	15.01
		1	7	21.13	21.02	21.07	14.78	14.67	14.72
		1	14	21.30	21.18	21.25	14.95	14.83	14.90
		8	0	20.18	20.10	20.14	13.83	13.75	13.79
		8	4	20.33	20.18	20.28	13.98	13.83	13.93
		8	7	20.32	20.18	20.26	13.97	13.83	13.91
		15	0	20.31	20.18	20.25	13.96	13.83	13.90
		1	0	21.40	21.28	21.36	15.05	14.93	15.01
	64QAM	1	7	21.13	21.02	21.07	14.78	14.67	14.72
		1	14	21.30	21.18	21.25	14.95	14.83	14.90
		8	0	20.18	20.10	20.14	13.83	13.75	13.79
		8	4	20.33	20.18	20.28	13.98	13.83	13.93
		8	7	20.32	20.18	20.26	13.97	13.83	13.91
		15	0	20.31	20.18	20.25	13.96	13.83	13.90
		1	0	21.40	21.28	21.36	15.05	14.93	15.01
		1	7	21.13	21.02	21.07	14.78	14.67	14.72
		1	14	21.30	21.18	21.25	14.95	14.83	14.90
		8	0	20.18	20.10	20.14	13.83	13.75	13.79
		8	4	20.33	20.18	20.28	13.98	13.83	13.93
		8	7	20.32	20.18	20.26	13.97	13.83	13.91
		15	0	20.31	20.18	20.25	13.96	13.83	13.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23035/ 701.5	23095/ 707.5	23155/ 713.5	23035/ 701.5	23095/ 707.5	23155/ 713.5
5MHz	QPSK	1	0	23.05	23.14	23.12	16.70	16.79	16.77
		1	13	23.28	23.17	23.06	16.93	16.82	16.71
		1	24	23.20	23.18	23.14	16.85	16.83	16.79
		12	0	22.34	22.17	21.98	15.99	15.82	15.63
		12	6	22.15	22.20	22.11	15.80	15.85	15.76
		12	13	22.31	22.20	21.99	15.96	15.85	15.64
		25	0	22.35	22.20	22.32	16.00	15.85	15.97
	16QAM	1	0	22.58	22.46	22.55	16.23	16.11	16.20
		1	13	22.73	22.64	22.69	16.38	16.29	16.34
		1	24	22.41	22.32	22.36	16.06	15.97	16.01
		12	0	21.33	21.20	21.26	14.98	14.85	14.91
		12	6	21.40	21.24	21.33	15.05	14.89	14.98
		12	13	21.42	21.28	21.36	15.07	14.93	15.01
		25	0	21.28	21.15	21.22	14.93	14.80	14.87
	64QAM	1	0	21.43	21.31	21.36	15.08	14.96	15.01
		1	13	21.12	21.05	21.06	14.77	14.70	14.71
		1	24	21.30	21.17	21.21	14.95	14.82	14.86
		12	0	20.16	20.03	20.13	13.81	13.68	13.78
		12	6	20.33	20.17	20.26	13.98	13.82	13.91
		12	13	20.31	20.17	20.25	13.96	13.82	13.90



		25	0	20.31	20.18	20.25	13.96	13.83	13.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23060/ 704	23095/ 707.5	23130/ 711	23060/ 704	23095/ 707.5	23130/ 711
10MHz	QPSK	1	0	23.03	23.07	23.10	16.68	16.72	16.75
		1	25	23.28	23.17	23.05	16.93	16.82	16.70
		1	49	23.17	23.16	23.10	16.82	16.81	16.75
		25	0	22.32	22.13	21.95	15.97	15.78	15.60
		25	13	22.13	22.16	22.08	15.78	15.81	15.73
		25	25	22.27	22.16	21.96	15.92	15.81	15.61
		50	0	22.34	22.13	22.27	15.99	15.78	15.92
	16QAM	1	0	22.57	22.43	22.50	16.22	16.08	16.15
		1	25	22.72	22.63	22.66	16.37	16.28	16.31
		1	49	22.39	22.27	22.34	16.04	15.92	15.99
		25	0	21.30	21.19	21.24	14.95	14.84	14.89
		25	13	21.36	21.21	21.29	15.01	14.86	14.94
		25	25	21.40	21.24	21.33	15.05	14.89	14.98
		50	0	21.26	21.11	21.19	14.91	14.76	14.84
	64QAM	1	0	21.38	21.24	21.31	15.03	14.89	14.96
		1	25	21.09	21.00	21.03	14.74	14.65	14.68
		1	49	21.24	21.12	21.19	14.89	14.77	14.84
		25	0	20.13	20.02	20.07	13.78	13.67	13.72
		25	13	20.29	20.14	20.22	13.94	13.79	13.87
		25	25	20.29	20.13	20.22	13.94	13.78	13.87
		50	0	20.29	20.14	20.22	13.94	13.79	13.87

LTE Band 13				Maximum Output Power (dBm)			ERP(dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23205/ 779.5	23230/ 782	23255/ 784.5	23205/ 779.5	23230/ 782	23255/ 784.5
5MHz	QPSK	1	0	23.18	23.14	23.07	16.83	16.79	16.72
		1	13	23.15	23.12	23.12	16.80	16.77	16.77
		1	24	23.18	23.13	23.11	16.83	16.78	16.76
		12	0	22.22	22.17	22.13	15.87	15.82	15.78
		12	6	22.23	22.18	22.14	15.88	15.83	15.79
		12	13	22.20	22.14	22.10	15.85	15.79	15.75
		25	0	22.28	22.23	22.16	15.93	15.88	15.81
	16QAM	1	0	22.65	22.60	22.57	16.30	16.25	16.22
		1	13	22.60	22.55	22.54	16.25	16.20	16.19
		1	24	22.15	22.10	22.05	15.80	15.75	15.70
		12	0	21.20	21.14	21.13	14.85	14.79	14.78
		12	6	21.18	21.12	21.09	14.83	14.77	14.74
		12	13	21.24	21.19	21.15	14.89	14.84	14.80



	64QAM	25	0	21.21	21.16	21.12	14.86	14.81	14.77
		1	0	21.44	21.37	21.30	15.09	15.02	14.95
		1	13	21.67	21.61	21.56	15.32	15.26	15.21
		1	24	21.31	21.26	21.21	14.96	14.91	14.86
		12	0	20.21	20.15	20.14	13.86	13.80	13.79
		12	6	20.27	20.21	20.18	13.92	13.86	13.83
		12	13	20.18	20.13	20.09	13.83	13.78	13.74
		25	0	20.19	20.14	20.10	13.84	13.79	13.75
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				/	23230/ 782	/	/	23230/ 782	/
10MHz	QPSK	1	0	/	23.04	/	/	16.69	/
		1	25	/	23.10	/	/	16.75	/
		1	49	/	23.08	/	/	16.73	/
		25	0	/	22.09	/	/	15.74	/
		25	13	/	22.11	/	/	15.76	/
		25	25	/	22.06	/	/	15.71	/
		50	0	/	22.12	/	/	15.77	/
	16QAM	1	0	/	22.52	/	/	16.17	/
		1	25	/	22.50	/	/	16.15	/
		1	49	/	22.03	/	/	15.68	/
		25	0	/	21.10	/	/	14.75	/
		25	13	/	21.06	/	/	14.71	/
		25	25	/	21.11	/	/	14.76	/
		50	0	/	21.09	/	/	14.74	/
	64QAM	1	0	/	21.25	/	/	14.90	/
		1	25	/	21.52	/	/	15.17	/
		1	49	/	21.15	/	/	14.80	/
		25	0	/	20.07	/	/	13.72	/
		25	13	/	20.12	/	/	13.77	/
		25	25	/	20.05	/	/	13.70	/
		50	0	/	20.07	/	/	13.72	/



LTE Band 17				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23755/ 706.5	23790/ 710	23825/ 713.5	23755/ 706.5	23790/ 710	23825/ 713.5
5MHz	QPSK	1	0	22.51	22.70	22.61	16.16	16.35	16.26
		1	13	22.59	22.70	22.69	16.24	16.35	16.34
		1	24	22.60	22.68	22.77	16.25	16.33	16.42
		12	0	21.52	21.46	21.44	15.17	15.11	15.09
		12	6	21.57	21.61	21.60	15.22	15.26	15.25
		12	13	21.54	21.15	21.56	15.19	14.80	15.21
		25	0	21.53	21.60	21.50	15.18	15.25	15.15
	16QAM	1	0	21.92	21.93	22.07	15.57	15.58	15.72
		1	13	21.95	21.94	22.06	15.60	15.59	15.71
		1	24	22.15	22.13	22.30	15.80	15.78	15.95
		12	0	20.57	20.50	20.70	14.22	14.15	14.35
		12	6	20.68	20.60	20.83	14.33	14.25	14.48
		12	13	20.53	20.50	20.69	14.18	14.15	14.34
		25	0	20.50	20.48	20.67	14.15	14.13	14.32
	64QAM	1	0	20.92	20.86	21.07	14.57	14.51	14.72
		1	13	20.92	20.88	21.04	14.57	14.53	14.69
		1	24	20.96	20.90	21.03	14.61	14.55	14.68
		12	0	19.71	19.64	19.85	13.36	13.29	13.50
		12	6	19.62	19.54	19.77	13.27	13.19	13.42
		12	13	19.48	19.45	19.63	13.13	13.10	13.28
		25	0	19.52	19.50	19.68	13.17	13.15	13.33
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23780/ 709	23790/ 710	23800/ 711	23780/ 709	23790/ 710	23800/ 711
10MHz	QPSK	1	0	22.49	22.63	22.59	16.14	16.28	16.24
		1	25	22.59	22.70	22.68	16.24	16.35	16.33
		1	49	22.57	22.66	22.73	16.22	16.31	16.38
		25	0	21.50	21.42	21.41	15.15	15.07	15.06
		25	13	21.55	21.57	21.57	15.20	15.22	15.22
		25	25	21.50	21.11	21.53	15.15	14.76	15.18
		50	0	21.52	21.53	21.45	15.17	15.18	15.10
	16QAM	1	0	21.91	21.90	22.02	15.56	15.55	15.67
		1	25	21.94	21.93	22.03	15.59	15.58	15.68
		1	49	22.13	22.08	22.28	15.78	15.73	15.93
		25	0	20.54	20.49	20.68	14.19	14.14	14.33
		25	13	20.64	20.57	20.79	14.29	14.22	14.44
		25	25	20.51	20.46	20.66	14.16	14.11	14.31



		50	0	20.48	20.44	20.64	14.13	14.09	14.29
	64QAM	1	0	20.87	20.79	21.02	14.52	14.44	14.67
		1	25	20.89	20.83	21.01	14.54	14.48	14.66
		1	49	20.90	20.85	21.01	14.55	14.50	14.66
		25	0	19.68	19.63	19.79	13.33	13.28	13.44
		25	13	19.58	19.51	19.73	13.23	13.16	13.38
		25	25	19.46	19.41	19.60	13.11	13.06	13.25
		50	0	19.50	19.46	19.65	13.15	13.11	13.30

LTE Band 38				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				37775/ 2572.5	38000 /2595	38225/ 2617.5	37775/ 2572.5	38000 /2595	38225/ 2617.5
5MHz	QPSK	1	0	22.69	22.76	22.77	19.99	20.06	20.07
		1	13	22.88	23.00	22.96	20.18	20.30	20.26
		1	24	22.85	22.85	22.93	20.15	20.15	20.23
		12	0	21.80	21.80	21.85	19.10	19.10	19.15
		12	6	21.82	21.84	21.87	19.12	19.14	19.17
		12	13	21.85	21.81	21.89	19.15	19.11	19.19
		25	0	21.29	21.85	21.89	18.59	19.15	19.19
	16QAM	1	0	22.01	21.86	21.96	19.31	19.16	19.26
		1	13	22.05	21.95	22.03	19.35	19.25	19.33
		1	24	22.04	21.94	21.97	19.34	19.24	19.27
		12	0	21.11	20.95	21.01	18.41	18.25	18.31
		12	6	21.19	21.02	21.11	18.49	18.32	18.41
		12	13	21.10	20.99	21.05	18.40	18.29	18.35
		25	0	21.20	21.06	21.13	18.50	18.36	18.43
	64QAM	1	0	21.32	21.19	21.25	18.62	18.49	18.55
		1	13	21.28	21.21	21.25	18.58	18.51	18.55
		1	24	21.39	21.25	21.28	18.69	18.55	18.58
		12	0	20.06	19.94	20.04	17.36	17.24	17.34
		12	6	20.20	20.03	20.12	17.50	17.33	17.42
		12	13	20.08	19.94	20.00	17.38	17.24	17.30
		25	0	20.07	19.93	20.00	17.37	17.23	17.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				37800/ 2575	38000/ 2595	38200/ 2615	37800/ 2575	38000 /2595	38200/ 2615
10MHz	QPSK	1	0	22.71	22.77	22.80	20.01	20.07	20.10
		1	25	22.91	23.05	23.00	20.21	20.35	20.30
		1	49	22.87	22.89	22.96	20.17	20.19	20.26
		25	0	21.83	21.85	21.89	19.13	19.15	19.19
		25	13	21.85	21.89	21.91	19.15	19.19	19.21



		25	25	21.87	21.85	21.94	19.17	19.15	19.24
		50	0	21.33	21.87	21.93	18.63	19.17	19.23
	16QAM	1	0	22.05	21.89	21.98	19.35	19.19	19.28
		1	25	22.09	21.99	22.06	19.39	19.29	19.36
		1	49	22.07	21.96	22.00	19.37	19.26	19.30
		25	0	21.14	21.00	21.05	18.44	18.30	18.35
		25	13	21.21	21.06	21.14	18.51	18.36	18.44
		25	25	21.13	21.04	21.09	18.43	18.34	18.39
		50	0	21.23	21.11	21.17	18.53	18.41	18.47
		1	0	21.34	21.18	21.27	18.64	18.48	18.57
	64QAM	1	25	21.31	21.21	21.28	18.61	18.51	18.58
		1	49	21.38	21.27	21.31	18.68	18.57	18.61
		25	0	20.09	19.99	20.04	17.39	17.29	17.34
		25	13	20.22	20.07	20.15	17.52	17.37	17.45
		25	25	20.11	19.99	20.04	17.41	17.29	17.34
		50	0	20.10	19.98	20.04	17.40	17.28	17.34
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				37825/ 2577.5	38000/ 2595	38175/ 2612.5	37825/ 2577.5	38000 /2595	38175/ 2612.5
15MHz	QPSK	1	0	22.70	22.73	22.78	20.00	20.03	20.08
		1	38	22.89	23.04	22.97	20.19	20.34	20.27
		1	74	22.84	22.84	22.92	20.14	20.14	20.22
		36	0	21.81	21.81	21.86	19.11	19.11	19.16
		36	18	21.82	21.84	21.87	19.12	19.14	19.17
		36	39	21.84	21.82	21.90	19.14	19.12	19.20
		75	0	21.31	21.83	21.88	18.61	19.13	19.18
	16QAM	1	0	22.03	21.87	21.96	19.33	19.17	19.26
		1	38	22.07	21.96	22.04	19.37	19.26	19.34
		1	74	22.05	21.92	21.97	19.35	19.22	19.27
		36	0	21.11	20.98	21.02	18.41	18.28	18.32
		36	18	21.18	21.01	21.10	18.48	18.31	18.40
		36	39	21.11	21.00	21.06	18.41	18.30	18.36
		75	0	21.20	21.06	21.13	18.50	18.36	18.43
	64QAM	1	0	21.29	21.16	21.25	18.59	18.46	18.55
		1	38	21.29	21.18	21.26	18.59	18.48	18.56
		1	74	21.39	21.26	21.32	18.69	18.56	18.62
		36	0	20.08	20.01	20.05	17.38	17.31	17.35
		36	18	20.20	20.04	20.14	17.50	17.34	17.44
		36	39	20.09	19.95	20.01	17.39	17.25	17.31
		75	0	20.07	19.93	20.00	17.37	17.23	17.30



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				37850/ 2580	38000/ 2595	38150/ 2610	37850/ 2580	38000/ 2595	38150/ 2610
20MHz	QPSK	1	0	22.67	22.69	22.75	19.97	19.99	20.05
		1	50	22.88	23.00	22.95	20.18	20.30	20.25
		1	99	22.82	22.83	22.89	20.12	20.13	20.19
		50	0	21.78	21.76	21.82	19.08	19.06	19.12
		50	25	21.80	21.80	21.84	19.10	19.10	19.14
		50	50	21.81	21.77	21.86	19.11	19.07	19.16
		100	0	21.28	21.78	21.84	18.58	19.08	19.14
	16QAM	1	0	22.00	21.83	21.91	19.30	19.13	19.21
		1	50	22.04	21.94	22.00	19.34	19.24	19.30
		1	99	22.02	21.89	21.95	19.32	19.19	19.25
		50	0	21.08	20.94	20.99	18.38	18.24	18.29
		50	25	21.15	20.99	21.07	18.45	18.29	18.37
		50	50	21.08	20.95	21.02	18.38	18.25	18.32
		100	0	21.18	21.02	21.10	18.48	18.32	18.40
	64QAM	1	0	21.27	21.12	21.20	18.57	18.42	18.50
		1	50	21.25	21.16	21.22	18.55	18.46	18.52
		1	99	21.33	21.20	21.26	18.63	18.50	18.56
		50	0	20.03	19.93	19.98	17.33	17.23	17.28
		50	25	20.16	20.00	20.08	17.46	17.30	17.38
		50	50	20.06	19.90	19.97	17.36	17.20	17.27
		100	0	20.05	19.89	19.97	17.35	17.19	17.27

LTE Band 40 Subset 1				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				38725/230 7.5	38750/231 0.0	38775/231 2.5	38725/230 7.5	38750/231 0.0	38775/231 2.5
5MHz	QPSK	1	0	22.89	22.98	22.87	20.19	20.28	20.17
		1	13	22.88	22.92	22.88	20.18	20.22	20.18
		1	24	22.85	22.92	22.82	20.15	20.22	20.12
		12	0	21.78	21.87	21.76	19.08	19.17	19.06
		12	6	21.86	21.94	21.84	19.16	19.24	19.14
		12	13	21.93	21.99	21.89	19.23	19.29	19.19
		25	0	21.86	21.94	21.85	19.16	19.24	19.15
	16QAM	1	0	21.99	22.06	21.98	19.29	19.36	19.28
		1	13	22.04	22.07	22.03	19.34	19.37	19.33
		1	24	21.99	22.06	21.97	19.29	19.36	19.27
		12	0	20.99	21.04	20.96	18.29	18.34	18.26
		12	6	21.11	21.19	21.07	18.41	18.49	18.37
		12	13	21.07	21.16	21.05	18.37	18.46	18.35



		25	0	21.02	21.10	21.00	18.32	18.40	18.30
	64QAM	1	0	21.41	21.32	21.36	18.71	18.62	18.66
		1	13	21.39	21.16	21.36	18.69	18.46	18.66
		1	24	21.35	21.20	21.29	18.65	18.50	18.59
		12	0	19.99	20.04	19.96	17.29	17.34	17.26
		12	6	20.05	20.13	20.01	17.35	17.43	17.31
		12	13	20.02	20.11	20.00	17.32	17.41	17.30
		25	0	20.00	20.08	19.98	17.30	17.38	17.28
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				/	38750/231 0.0	/	/	38750/231 0.0	/
10MHz	QPSK	1	0	/	22.82	/	/	20.12	/
		1	25	/	22.83	/	/	20.13	/
		1	49	/	22.75	/	/	20.05	/
		25	0	/	21.69	/	/	18.99	/
		25	13	/	21.77	/	/	19.07	/
		25	25	/	21.81	/	/	19.11	/
		50	0	/	21.76	/	/	19.06	/
		50	0	/	21.76	/	/	19.06	/
	16QAM	1	0	/	21.91	/	/	19.21	/
		1	25	/	21.97	/	/	19.27	/
		1	49	/	21.92	/	/	19.22	/
		25	0	/	20.90	/	/	18.20	/
		25	13	/	21.00	/	/	18.30	/
		25	25	/	20.98	/	/	18.28	/
		50	0	/	20.93	/	/	18.23	/
		50	0	/	20.93	/	/	18.23	/
	64QAM	1	0	/	21.29	/	/	18.59	/
		1	25	/	21.30	/	/	18.60	/
		1	49	/	21.24	/	/	18.54	/
		25	0	/	19.90	/	/	17.20	/
		25	13	/	19.94	/	/	17.24	/
		25	25	/	19.93	/	/	17.23	/
		50	0	/	19.91	/	/	17.21	/
		50	0	/	19.91	/	/	17.21	/

LTE Band 40 Subset 2				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				39175/2	39200/2	39225/2	39175/2	39200/2	39225/2
				352.5	355.0	357.5	352.5	355.0	357.5
5MHz	QPSK	1	0	22.91	22.89	22.96	20.21	20.19	20.26
		1	13	22.95	22.95	23.00	20.25	20.25	20.30
		1	24	22.94	22.91	23.01	20.24	20.21	20.31
		12	0	21.88	21.86	21.95	19.18	19.16	19.25
		12	6	21.86	21.84	21.93	19.16	19.14	19.23



		12	13	21.94	21.90	22.02	19.24	19.20	19.32
		25	0	21.92	21.91	22.01	19.22	19.21	19.31
	16QAM	1	0	22.06	22.05	22.13	19.36	19.35	19.43
		1	13	22.03	22.02	22.09	19.33	19.32	19.39
		1	24	22.03	22.01	22.08	19.33	19.31	19.38
		12	0	21.11	21.08	21.17	18.41	18.38	18.47
		12	6	21.14	21.10	21.21	18.44	18.40	18.51
		12	13	21.18	21.16	21.25	18.48	18.46	18.55
		25	0	21.09	21.07	21.16	18.39	18.37	18.46
		1	0	21.19	21.37	21.20	18.49	18.67	18.50
	64QAM	1	13	21.30	21.26	21.36	18.60	18.56	18.66
		1	24	21.25	21.37	21.22	18.55	18.67	18.52
		12	0	20.15	20.12	20.21	17.45	17.42	17.51
		12	6	20.13	20.09	20.20	17.43	17.39	17.50
		12	13	20.11	20.09	20.18	17.41	17.39	17.48
		25	0	20.08	20.06	20.15	17.38	17.36	17.45
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				/	39200/2355.0	/	/	39200/2355.0	/
10MHz	QPSK	1	0	/	22.72	/		20.02	
		1	25	/	22.73	/		20.03	
		1	49	/	22.70	/		20.00	
		25	0	/	21.82	/		19.12	
		25	13	/	21.81	/		19.11	
		25	25	/	21.86	/		19.16	
		50	0	/	21.87	/		19.17	
	16QAM	1	0	/	22.00	/		19.30	
		1	25	/	21.98	/		19.28	
		1	49	/	21.99	/		19.29	
		25	0	/	21.05	/		18.35	
		25	13	/	21.07	/		18.37	
		25	25	/	21.12	/		18.42	
		50	0	/	21.04	/		18.34	
	64QAM	1	0	/	21.32	/		18.62	
		1	25	/	21.37	/		18.67	
		1	49	/	21.31	/		18.61	
		25	0	/	20.05	/		17.35	
		25	13	/	20.03	/		17.33	
		25	25	/	20.05	/		17.35	
		50	0	/	20.03	/		17.33	



LTE Band 66				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				131979/ 1710.7	132322/ 1745	132665/ 1779.3	131979/ 1710.7	132322/ 1745	132665/ 1779.3
1.4MHz	QPSK	1	0	22.76	22.78	22.73	19.66	19.68	19.63
		1	2	22.81	22.83	22.72	19.71	19.73	19.62
		1	5	22.60	22.51	22.63	19.50	19.41	19.53
		3	0	22.78	22.76	22.75	19.68	19.66	19.65
		3	2	22.68	22.80	22.78	19.58	19.70	19.68
		3	3	22.65	22.81	22.69	19.55	19.71	19.59
		6	0	21.78	21.81	21.78	18.68	18.71	18.68
	16QAM	1	0	22.09	22.08	22.15	18.99	18.98	19.05
		1	2	22.11	22.08	22.12	19.01	18.98	19.02
		1	5	22.24	22.17	22.27	19.14	19.07	19.17
		3	0	21.83	21.74	21.84	18.73	18.64	18.74
		3	2	21.76	21.68	21.78	18.66	18.58	18.68
		3	3	21.65	21.59	21.68	18.55	18.49	18.58
		6	0	20.85	20.79	20.90	17.75	17.69	17.80
	64QAM	1	0	20.81	20.74	20.82	17.71	17.64	17.72
		1	2	21.08	21.02	21.10	17.98	17.92	18.00
		1	5	20.88	20.88	20.90	17.78	17.78	17.80
		3	0	20.82	20.74	20.84	17.72	17.64	17.74
		3	2	20.74	20.66	20.78	17.64	17.56	17.68
		3	3	20.66	20.61	20.67	17.56	17.51	17.57
		6	0	19.75	19.71	19.81	16.65	16.61	16.71
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				131987/ 1711.5	132322/ 1745	132657/ 1778.5	131987/ 1711.5	132322/ 1745	132657/ 1778.5
3MHz	QPSK	1	0	22.78	22.82	22.76	19.68	19.72	19.66
		1	7	22.79	22.86	22.76	19.69	19.76	19.66
		1	14	22.63	22.56	22.67	19.53	19.46	19.57
		8	0	21.88	21.88	21.88	18.78	18.78	18.78
		8	4	21.80	21.90	21.90	18.70	18.80	18.80
		8	7	21.75	21.92	21.79	18.65	18.82	18.69
		15	0	21.78	21.85	21.81	18.68	18.75	18.71
	16QAM	1	0	22.09	22.10	22.18	18.99	19.00	19.08
		1	7	22.11	22.08	22.16	19.01	18.98	19.06
		1	14	22.26	22.21	22.30	19.16	19.11	19.20
		8	0	20.94	20.87	20.96	17.84	17.77	17.86
		8	4	20.87	20.81	20.90	17.77	17.71	17.80
		8	7	20.75	20.71	20.81	17.65	17.61	17.71
		15	0	20.88	20.83	20.93	17.78	17.73	17.83
	64QAM	1	0	20.84	20.76	20.85	17.74	17.66	17.75



		1	7	21.11	21.02	21.12	18.01	17.92	18.02
		1	14	20.90	20.87	20.93	17.80	17.77	17.83
		8	0	19.93	19.87	19.96	16.83	16.77	16.86
		8	4	19.85	19.79	19.90	16.75	16.69	16.80
		8	7	19.76	19.73	19.80	16.66	16.63	16.70
		15	0	19.78	19.75	19.84	16.68	16.65	16.74
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				131997/ 1712.5	132322/ 1745	132647/ 1777.5	131997/ 1712.5	132322/ 1745	132647/ 1777.5
5MHz	QPSK	1	0	22.75	22.80	22.72	19.65	19.70	19.62
		1	13	22.77	22.82	22.73	19.67	19.72	19.63
		1	24	22.60	22.51	22.63	19.50	19.41	19.53
		12	0	21.85	21.83	21.84	18.75	18.73	18.74
		12	6	21.78	21.86	21.85	18.68	18.76	18.75
		12	13	21.73	21.90	21.75	18.63	18.80	18.65
		25	0	21.78	21.84	21.79	18.68	18.74	18.69
	16QAM	1	0	22.09	22.06	22.15	18.99	18.96	19.05
		1	13	22.11	22.06	22.13	19.01	18.96	19.03
		1	24	22.23	22.19	22.26	19.13	19.09	19.16
		12	0	20.92	20.83	20.93	17.82	17.73	17.83
		12	6	20.84	20.76	20.86	17.74	17.66	17.76
		12	13	20.72	20.66	20.77	17.62	17.56	17.67
		25	0	20.86	20.79	20.88	17.76	17.69	17.78
	64QAM	1	0	20.81	20.76	20.82	17.71	17.66	17.72
		1	13	21.08	21.04	21.09	17.98	17.94	17.99
		1	24	20.91	20.85	20.89	17.81	17.75	17.79
		12	0	19.91	19.83	19.97	16.81	16.73	16.87
		12	6	19.82	19.74	19.86	16.72	16.64	16.76
		12	13	19.73	19.68	19.76	16.63	16.58	16.66
		25	0	19.76	19.71	19.79	16.66	16.61	16.69
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				132022/ 1715	132322/ 1745	132622/ 1775	132022/ 1715	132322/ 1745	132622/ 1775
10MHz	QPSK	1	0	22.77	22.81	22.75	19.67	19.71	19.65
		1	25	22.80	22.87	22.77	19.70	19.77	19.67
		1	49	22.62	22.55	22.66	19.52	19.45	19.56
		25	0	21.88	21.88	21.88	18.78	18.78	18.78
		25	13	21.81	21.91	21.89	18.71	18.81	18.79
		25	25	21.75	21.94	21.80	18.65	18.84	18.70
		50	0	21.82	21.86	21.83	18.72	18.76	18.73
	16QAM	1	0	22.13	22.09	22.17	19.03	18.99	19.07
		1	25	22.15	22.10	22.16	19.05	19.00	19.06
		1	49	22.26	22.21	22.29	19.16	19.11	19.19



		25	0	20.95	20.88	20.97	17.85	17.78	17.87
		25	13	20.86	20.80	20.89	17.76	17.70	17.79
		25	25	20.75	20.71	20.81	17.65	17.61	17.71
		50	0	20.89	20.84	20.92	17.79	17.74	17.82
	64QAM	1	0	20.83	20.75	20.84	17.73	17.65	17.74
		1	25	21.11	21.04	21.12	18.01	17.94	18.02
		1	49	20.90	20.87	20.92	17.80	17.77	17.82
		25	0	19.94	19.88	19.97	16.84	16.78	16.87
		25	13	19.84	19.78	19.89	16.74	16.68	16.79
		25	25	19.76	19.73	19.80	16.66	16.63	16.70
		50	0	19.79	19.76	19.83	16.69	16.66	16.73
Bandwidth	Modulation	RB alloca tion	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				132047/ 1717.5	132322/ 1745	132597/ 1772.5	132047/ 1717.5	132322/ 1745	132597/ 1772.5
15MHz	QPSK	1	0	22.76	22.77	22.73	19.66	19.67	19.63
		1	38	22.78	22.86	22.74	19.68	19.76	19.64
		1	74	22.59	22.50	22.62	19.49	19.40	19.52
		36	0	21.86	21.84	21.85	18.76	18.74	18.75
		36	18	21.78	21.86	21.85	18.68	18.76	18.75
		36	39	21.72	21.91	21.76	18.62	18.81	18.66
		75	0	21.80	21.82	21.78	18.70	18.72	18.68
	16QAM	1	0	22.11	22.07	22.15	19.01	18.97	19.05
		1	38	22.13	22.07	22.14	19.03	18.97	19.04
		1	74	22.24	22.17	22.26	19.14	19.07	19.16
		36	0	20.92	20.86	20.94	17.82	17.76	17.84
		36	18	20.83	20.75	20.85	17.73	17.65	17.75
		36	39	20.73	20.67	20.78	17.63	17.57	17.68
		75	0	20.86	20.79	20.88	17.76	17.69	17.78
	64QAM	1	0	20.78	20.73	20.82	17.68	17.63	17.72
		1	38	21.09	21.01	21.10	17.99	17.91	18.00
		1	74	20.91	20.86	20.93	17.81	17.76	17.83
		36	0	19.93	19.90	19.98	16.83	16.80	16.88
		36	18	19.82	19.75	19.88	16.72	16.65	16.78
		36	39	19.74	19.69	19.77	16.64	16.59	16.67
		75	0	19.76	19.71	19.79	16.66	16.61	16.69
Bandwidth	Modulation	RB alloca tion	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				132072/ 1720	132322/ 1745	132572/ 1770	132072/ 1720	132322/ 1745	132572/ 1770
20MHz	QPSK	1	0	22.73	22.73	22.70	19.63	19.63	19.60
		1	50	22.77	22.82	22.72	19.67	19.72	19.62
		1	99	22.57	22.49	22.59	19.47	19.39	19.49
		50	0	21.83	21.79	21.81	18.73	18.69	18.71
		50	25	21.76	21.82	21.82	18.66	18.72	18.72



		50	50	21.69	21.86	21.72	18.59	18.76	18.62
		100	0	21.77	21.77	21.74	18.67	18.67	18.64
	16QAM	1	0	22.08	22.03	22.10	18.98	18.93	19.00
		1	50	22.10	22.05	22.10	19.00	18.95	19.00
		1	99	22.21	22.14	22.24	19.11	19.04	19.14
		50	0	20.89	20.82	20.91	17.79	17.72	17.81
		50	25	20.80	20.73	20.82	17.70	17.63	17.72
		50	50	20.70	20.62	20.74	17.60	17.52	17.64
		100	0	20.84	20.75	20.85	17.74	17.65	17.75
		1	0	20.76	20.69	20.77	17.66	17.59	17.67
	64QAM	1	50	21.05	20.99	21.06	17.95	17.89	17.96
		1	99	20.85	20.80	20.87	17.75	17.70	17.77
		50	0	19.88	19.82	19.91	16.78	16.72	16.81
		50	25	19.78	19.71	19.82	16.68	16.61	16.72
		50	50	19.71	19.64	19.73	16.61	16.54	16.63
		100	0	19.74	19.67	19.76	16.64	16.57	16.66

CA_7C	PCC	SCC	PCC RB		SCC1 RB		Max mum output power (dBm)			EIRP (dBm)		
	Frequenc y(MHz)	Frequenc y(MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10MHz+20MHz	2505.5	2519.9	1	49	1	0	21.62	20.66	20.15	19.82	18.86	18.35
			50	0	100	0	19.87	18.86	18.37	18.07	17.06	16.57
	2525.6	2540	1	49	1	0	21.54	21.06	21.08	19.74	19.26	19.28
			50	0	100	0	19.99	18.92	18.60	18.19	17.12	16.80
	2545.6	2560	1	49	1	0	21.69	21.17	21.14	19.89	19.37	19.34
			50	0	100	0	20.00	19.02	18.73	18.20	17.22	16.93
20MHz+10MHz	2510	2524.4	1	99	1	0	21.66	20.58	21.05	19.86	18.78	19.25
			100	0	50	0	19.93	18.95	18.64	18.13	17.15	16.84
	2530.1	2544.5	1	99	1	0	21.93	21.54	20.07	20.13	19.74	18.27
			100	0	50	0	20.10	19.17	18.63	18.30	17.37	16.83
	2550.1	2564.5	1	99	1	0	21.90	21.64	21.13	20.10	19.84	19.33
			100	0	50	0	20.25	19.25	18.72	18.45	17.45	16.92
15MHz+15MHz	2507.5	2522.5	1	74	1	0	21.96	21.61	21.10	20.16	19.81	19.30
			75	0	75	0	20.19	19.18	18.67	18.39	17.38	16.87
	2527.5	2542.5	1	74	1	0	21.98	21.64	21.16	20.18	19.84	19.36
			75	0	75	0	20.13	19.13	18.59	18.33	17.33	16.79
	2547.5	2562.5	1	74	1	0	22.04	21.72	21.25	20.24	19.92	19.45
			75	0	75	0	20.24	19.20	18.73	18.44	17.40	16.93
15MHz+20MHz	2507.8	2524.9	1	74	1	0	21.93	21.59	20.19	20.13	19.79	18.39
			75	0	100	0	20.12	19.10	18.61	18.32	17.30	16.81
	2525.3	2542.4	1	74	1	0	21.97	21.64	21.12	20.17	19.84	19.32
			75	0	100	0	20.05	19.04	19.57	18.25	17.24	17.77



	2542.9	2560	1	74	1	0	22.05	21.69	21.20	20.25	19.89	19.40
			75	0	100	0	20.16	19.20	18.64	18.36	17.40	16.84
20MHz+15MHz	2510	2527.1	1	99	1	0	21.80	21.61	21.03	20.00	19.81	19.23
			100	0	75	0	20.12	19.14	18.64	18.32	17.34	16.84
	2527.6	2544.7	1	99	1	0	21.86	21.61	21.15	20.06	19.81	19.35
			100	0	75	0	20.07	19.13	18.62	18.27	17.33	16.82
	2545.1	2562.2	1	99	1	0	21.92	21.63	21.16	20.12	19.83	19.36
			100	0	75	0	20.18	19.18	18.66	18.38	17.38	16.86
20MHz+20MHz	2510	2529.8	1	99	1	0	21.84	21.62	21.08	20.04	19.82	19.28
			1	0	1	99	12.86	13.48	12.98	11.06	11.68	11.18
			100	0	100	0	21.00	19.13	18.59	19.20	17.33	16.79
	2525.1	2544.9	1	99	1	0	21.86	21.62	21.11	20.06	19.82	19.31
			1	0	1	99	12.88	13.48	12.99	11.08	11.68	11.19
			100	0	100	0	20.01	19.05	18.56	18.21	17.25	16.76
	2540.2	2560	1	99	1	0	21.91	21.69	21.18	20.11	19.89	19.38
			1	0	1	99	12.88	13.49	12.98	11.08	11.69	11.18
			100	0	100	0	20.13	19.13	18.60	18.33	17.33	16.80

NR n7									
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				500500	507000	513500	500500	507000	513500
				2502.5	2535	2567.5	2502.5	2535	2567.5
5	BPSK	1	0	21.19	21.11	21.14	19.39	19.31	19.34
		1	1	22.02	21.91	21.92	20.22	20.11	20.12
		1	24	22.06	21.90	21.98	20.26	20.10	20.18
		1	25	21.12	21.05	21.04	19.32	19.25	19.24
		12	6	22.30	22.20	22.16	20.50	20.40	20.36
		25	0	21.40	21.25	21.25	19.60	19.45	19.45
	QPSK	1	0	21.19	21.04	21.14	19.39	19.24	19.34
		1	1	22.10	21.96	21.95	20.30	20.16	20.15
		1	24	22.02	21.90	21.97	20.22	20.10	20.17
		1	25	21.18	20.99	21.10	19.38	19.19	19.30
		12	6	22.31	22.11	22.18	20.51	20.31	20.38
		25	0	21.39	21.28	21.33	19.59	19.48	19.53
	16QAM	1	0	20.16	19.98	20.03	18.36	18.18	18.23
		1	1	21.14	21.03	21.08	19.34	19.23	19.28
		1	24	21.22	20.99	21.07	19.42	19.19	19.27
		1	25	20.14	19.91	19.99	18.34	18.11	18.19
		12	6	21.41	21.38	21.30	19.61	19.58	19.50
		25	0	20.32	20.20	20.26	18.52	18.40	18.46
	64QAM	1	0	19.78	19.59	19.55	17.98	17.79	17.75
		1	1	19.82	19.59	19.73	18.02	17.79	17.93



		1	24	19.68	19.52	19.65	17.88	17.72	17.85
		1	25	19.75	19.57	19.60	17.95	17.77	17.80
		12	6	19.90	19.77	19.77	18.10	17.97	17.97
		25	0	19.79	19.78	19.68	17.99	17.98	17.88
	256QAM	1	0	17.56	17.49	17.65	15.76	15.69	15.85
		1	1	17.84	17.49	17.73	16.04	15.69	15.93
		1	24	17.58	17.45	17.67	15.78	15.65	15.87
		1	25	17.73	17.47	17.63	15.93	15.67	15.83
		12	6	17.84	17.69	17.71	16.04	15.89	15.91
		25	0	17.78	17.70	17.75	15.98	15.90	15.95
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				501000	507000	513000	501000	507000	513000
				2505	2535	2565	2505	2535	2565
10	BPSK	1	0	21.03	20.94	20.99	19.23	19.14	19.19
		1	1	21.87	21.78	21.78	20.07	19.98	19.98
		1	50	21.90	21.76	21.83	20.10	19.96	20.03
		25	12	20.97	20.92	20.90	19.17	19.12	19.10
		50	0	22.15	22.07	22.02	20.35	20.27	20.22
	QPSK	1	0	21.24	21.11	21.12	19.44	19.31	19.32
		1	1	21.09	20.88	21.00	19.29	19.08	19.20
		1	50	21.94	21.81	21.79	20.14	20.01	19.99
		25	12	21.87	21.76	21.82	20.07	19.96	20.02
		50	0	21.03	20.83	20.95	19.23	19.03	19.15
	16QAM	1	0	22.16	21.98	22.04	20.36	20.18	20.24
		1	1	21.23	21.14	21.18	19.43	19.34	19.38
		1	50	20.01	19.85	19.89	18.21	18.05	18.09
		25	12	20.99	20.90	20.94	19.19	19.10	19.14
		50	0	21.06	20.84	20.91	19.26	19.04	19.11
	64QAM	1	0	19.99	19.77	19.84	18.19	17.97	18.04
		1	1	21.26	21.22	21.15	19.46	19.42	19.35
		1	50	20.17	20.07	20.12	18.37	18.27	18.32
		25	12	19.63	19.64	19.55	17.83	17.84	17.75
		50	0	17.46	17.33	17.51	15.66	15.53	15.71
	256QAM	1	0	17.68	17.34	17.57	15.88	15.54	15.77
		1	1	17.43	17.31	17.52	15.63	15.51	15.72
		1	50	17.58	17.31	17.48	15.78	15.51	15.68
		25	12	17.69	17.56	17.57	15.89	15.76	15.77
		50	0	17.62	17.56	17.60	15.82	15.76	15.80
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				501500	507000	512500	501500	507000	512500
				2507.5	2535	2562.5	2507.5	2535	2562.5
15	BPSK	1	0	21.09	20.97	21.04	19.29	19.17	19.24
		1	1	21.92	21.84	21.82	20.12	20.04	20.02



		1	77	21.94	21.78	21.86	20.14	19.98	20.06
		1	78	21.02	20.95	20.94	19.22	19.15	19.14
		36	18	22.19	22.09	22.05	20.39	20.29	20.25
		75	0	21.28	21.15	21.15	19.48	19.35	19.35
	QPSK	1	0	21.14	20.91	21.02	19.34	19.11	19.22
		1	1	21.96	21.86	21.84	20.16	20.06	20.04
		1	77	21.92	21.80	21.87	20.12	20.00	20.07
		1	78	21.07	20.86	20.99	19.27	19.06	19.19
		36	18	22.20	22.03	22.08	20.40	20.23	20.28
		75	0	21.27	21.16	21.21	19.47	19.36	19.41
	16QAM	1	0	20.06	19.88	19.93	18.26	18.08	18.13
		1	1	21.03	20.92	20.97	19.23	19.12	19.17
		1	77	21.08	20.89	20.96	19.28	19.09	19.16
		1	78	20.04	19.81	19.89	18.24	18.01	18.09
		36	18	21.30	21.25	21.19	19.50	19.45	19.39
		75	0	20.21	20.12	20.16	18.41	18.32	18.36
	64QAM	1	0	19.68	19.45	19.45	17.88	17.65	17.65
		1	1	19.72	19.52	19.63	17.92	17.72	17.83
		1	77	19.56	19.40	19.53	17.76	17.60	17.73
		1	78	19.65	19.47	19.50	17.85	17.67	17.70
		36	18	19.79	19.66	19.66	17.99	17.86	17.86
		75	0	19.67	19.68	19.58	17.87	17.88	17.78
	256QAM	1	0	17.51	17.36	17.53	15.71	15.56	15.73
		1	1	17.70	17.39	17.62	15.90	15.59	15.82
		1	77	17.48	17.35	17.57	15.68	15.55	15.77
		1	78	17.62	17.34	17.52	15.82	15.54	15.72
		36	18	17.73	17.61	17.61	15.93	15.81	15.81
		75	0	17.66	17.58	17.63	15.86	15.78	15.83
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				502000	507000	512000	502000	507000	512000
				2510	2535	2560	2510	2535	2560
20	BPSK	1	0	21.42	21.29	21.37	19.62	19.49	19.57
		1	1	22.27	22.16	22.16	20.47	20.36	20.36
		1	104	22.28	22.13	22.19	20.48	20.33	20.39
		1	105	21.35	21.26	21.26	19.55	19.46	19.46
		50	25	22.53	22.41	22.38	20.73	20.61	20.58
		100	0	21.61	21.46	21.47	19.81	19.66	19.67
	QPSK	1	0	21.47	21.22	21.34	19.67	19.42	19.54
		1	1	22.30	22.18	22.15	20.50	20.38	20.35
		1	104	22.24	22.14	22.19	20.44	20.34	20.39
		1	105	21.41	21.19	21.33	19.61	19.39	19.53
		50	25	22.53	22.35	22.41	20.73	20.55	20.61
		100	0	21.60	21.50	21.54	19.80	19.70	19.74



	16QAM	1	0	20.39	20.19	20.25	18.59	18.39	18.45
		1	1	21.37	21.24	21.30	19.57	19.44	19.50
		1	104	21.42	21.21	21.27	19.62	19.41	19.47
		1	105	20.36	20.15	20.21	18.56	18.35	18.41
		50	25	21.64	21.58	21.53	19.84	19.78	19.73
		100	0	20.54	20.44	20.49	18.74	18.64	18.69
	64QAM	1	0	20.01	19.77	19.78	18.21	17.97	17.98
		1	1	20.07	19.84	19.97	18.27	18.04	18.17
		1	104	19.90	19.75	19.86	18.10	17.95	18.06
		1	105	19.98	19.78	19.82	18.18	17.98	18.02
		50	25	20.13	19.98	19.99	18.33	18.18	18.19
		100	0	20.00	19.99	19.90	18.20	18.19	18.10
	256QAM	1	0	17.84	17.67	17.85	16.04	15.87	16.05
		1	1	18.04	17.71	17.93	16.24	15.91	16.13
		1	104	17.80	17.69	17.89	16.00	15.89	16.09
		1	105	17.96	17.67	17.86	16.16	15.87	16.06
		50	25	18.06	17.93	17.94	16.26	16.13	16.14
		100	0	17.99	17.92	17.96	16.19	16.12	16.16

DC_28A(Subset 1)-n7											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						500500	507000	513500	500500	507000	513500
						2502.5	2535	2567.5	2502.5	2535	2567.5
5	BPSK	LTE B28-QPSK- 5MHz-709.5 MHz	15	1	0	21.36	21.56	21.80	17.16	17.36	17.60
				1	1	22.52	22.37	22.87	18.32	18.17	18.67
				1	24	22.66	22.63	23.13	18.46	18.43	18.93
				1	25	21.48	21.71	22.02	17.28	17.51	17.82
				12	6	22.66	22.82	23.17	18.46	18.62	18.97
				25	0	21.59	21.78	22.16	17.39	17.58	17.96
	QPSK			1	0	21.31	21.50	21.81	17.11	17.30	17.61
				1	1	22.58	22.51	22.92	18.38	18.31	18.72
				1	24	22.61	22.65	23.03	18.41	18.45	18.83
				1	25	21.55	21.71	22.00	17.35	17.51	17.80
				12	6	22.67	22.78	23.12	18.47	18.58	18.92
				25	0	21.62	21.79	22.11	17.42	17.59	17.91
	16QAM			1	0	20.61	20.73	21.02	16.41	16.53	16.82
				1	1	21.67	21.38	22.03	17.47	17.18	17.83
				1	24	21.43	21.60	22.29	17.23	17.40	18.09
				1	25	20.74	20.88	20.90	16.54	16.68	16.70
				12	6	21.61	21.75	22.11	17.41	17.55	17.91
				25	0	20.55	20.75	21.10	16.35	16.55	16.90



	64QAM			1	0	19.92	20.32	20.32	15.72	16.12	16.12
				1	1	19.95	20.29	20.61	15.75	16.09	16.41
				1	24	20.16	20.54	20.58	15.96	16.34	16.38
				1	25	20.09	20.18	20.58	15.89	15.98	16.38
				12	6	20.06	20.26	20.58	15.86	16.06	16.38
				25	0	20.12	20.28	20.60	15.92	16.08	16.40
	256QAM			1	0	17.75	17.79	18.11	13.55	13.59	13.91
				1	1	17.84	17.77	18.12	13.64	13.57	13.92
				1	24	17.80	17.95	18.36	13.60	13.75	14.16
				1	25	17.76	17.97	18.30	13.56	13.77	14.10
				12	6	18.20	18.23	18.54	14.00	14.03	14.34
				25	0	18.13	18.12	18.58	13.93	13.92	14.38
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						501000	507000	513000	501000	507000	513000
						2505	2535	2565	2505	2535	2565
10	BPSK	LTE B28-QPSK- 5MHz-709.5 MHz	15	1	0	21.49	21.68	21.94	17.29	17.48	17.74
				1	1	22.66	22.53	23.02	18.46	18.33	18.82
				1	50	22.79	22.78	23.27	18.59	18.58	19.07
				25	12	21.62	21.87	22.17	17.42	17.67	17.97
				50	0	22.80	22.98	23.32	18.60	18.78	19.12
	QPSK			1	0	21.72	21.93	22.32	17.52	17.73	18.12
				1	1	21.50	21.63	21.96	17.30	17.43	17.76
				1	50	22.71	22.65	23.05	18.51	18.45	18.85
				25	12	22.75	22.80	23.17	18.55	18.60	18.97
				50	0	21.69	21.84	22.14	17.49	17.64	17.94
	16QAM			1	0	22.81	22.94	23.27	18.61	18.74	19.07
				1	1	21.75	21.94	22.25	17.55	17.74	18.05
				1	50	20.75	20.89	21.17	16.55	16.69	16.97
				25	12	21.81	21.54	22.18	17.61	17.34	17.98
				50	0	21.56	21.74	22.42	17.36	17.54	18.22
	64QAM			1	0	20.88	21.03	21.04	16.68	16.83	16.84
				1	1	21.75	21.88	22.25	17.55	17.68	18.05
				1	50	20.69	20.91	21.25	16.49	16.71	17.05
				25	12	20.25	20.43	20.76	16.05	16.23	16.56
				50	0	17.94	17.92	18.26	13.74	13.72	14.06
	256QAM			1	0	17.97	17.91	18.25	13.77	13.71	14.05
				1	1	17.94	18.10	18.50	13.74	13.90	14.30
				1	50	17.90	18.10	18.44	13.70	13.90	14.24
				25	12	18.34	18.39	18.69	14.14	14.19	14.49
				50	0	18.26	18.27	18.72	14.06	14.07	14.52



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						501500	507000	512500	501500	507000	512500
						2507.5	2535	2562.5	2507.5	2535	2562.5
15	BPSK	LTE B28-QPSK- 5MHz-709.5 MHz	15	1	0	21.57	21.73	22.01	17.37	17.53	17.81
				1	1	22.73	22.61	23.08	18.53	18.41	18.88
				1	77	22.85	22.82	23.32	18.65	18.62	19.12
				1	78	21.69	21.92	22.23	17.49	17.72	18.03
				36	18	22.86	23.02	23.37	18.66	18.82	19.17
				75	0	21.78	21.99	22.37	17.58	17.79	18.17
	QPSK			1	0	21.57	21.68	22.00	17.37	17.48	17.80
				1	1	22.75	22.72	23.12	18.55	18.52	18.92
				1	77	22.82	22.86	23.24	18.62	18.66	19.04
				1	78	21.75	21.89	22.20	17.55	17.69	18.00
				36	18	22.87	23.01	23.33	18.67	18.81	19.13
				75	0	21.81	21.98	22.30	17.61	17.78	18.10
	16QAM			1	0	20.82	20.94	21.23	16.62	16.74	17.03
				1	1	21.87	21.58	22.23	17.67	17.38	18.03
				1	77	21.60	21.81	22.49	17.40	17.61	18.29
				1	78	20.95	21.09	21.11	16.75	16.89	16.91
				36	18	21.81	21.93	22.31	17.61	17.73	18.11
				75	0	20.75	20.98	21.31	16.55	16.78	17.11
	64QAM			1	0	20.13	20.49	20.53	15.93	16.29	16.33
				1	1	20.16	20.53	20.82	15.96	16.33	16.62
				1	77	20.35	20.73	20.77	16.15	16.53	16.57
				1	78	20.30	20.39	20.79	16.10	16.19	16.59
				36	18	20.26	20.46	20.78	16.06	16.26	16.58
				75	0	20.31	20.49	20.81	16.11	16.29	16.61
	256QAM			1	0	18.01	17.97	18.30	13.81	13.77	14.10
				1	1	18.01	17.98	18.32	13.81	13.78	14.12
				1	77	18.01	18.16	18.57	13.81	13.96	14.37
				1	78	17.96	18.15	18.50	13.76	13.95	14.30
				36	18	18.40	18.46	18.75	14.20	14.26	14.55
				75	0	18.32	18.31	18.77	14.12	14.11	14.57
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						502000	507000	512000	502000	507000	512000
						2510	2535	2560	2510	2535	2560
20	BPSK	LTE B28-QPSK- 5MHz-709.5	15	1	0	21.82	21.97	22.26	17.62	17.77	18.06
				1	1	23.00	22.85	23.34	18.80	18.65	19.14
				1	104	23.11	23.09	23.57	18.91	18.89	19.37



Tx Test Report			Report from Release 100.0.0								
Tx Test Results		MHz		1	105	21.94	22.15	22.47	17.74	17.95	18.27
				50	25	23.12	23.26	23.62	18.92	19.06	19.42
				100	0	22.03	22.22	22.61	17.83	18.02	18.41
	QPSK	1	0	21.82	21.91	22.24	17.62	17.71	18.04		
		1	1	23.01	22.96	23.35	18.81	18.76	19.15		
		1	104	23.06	23.12	23.48	18.86	18.92	19.28		
		1	105	22.01	22.14	22.46	17.81	17.94	18.26		
		50	25	23.12	23.25	23.58	18.92	19.05	19.38		
		100	0	22.06	22.24	22.55	17.86	18.04	18.35		
	16QAM	1	0	21.07	21.17	21.47	16.87	16.97	17.27		
		1	1	22.13	21.82	22.48	17.93	17.62	18.28		
		1	104	21.86	22.05	22.72	17.66	17.85	18.52		
		1	105	21.19	21.35	21.35	16.99	17.15	17.15		
		50	25	22.07	22.18	22.57	17.87	17.98	18.37		
		100	0	21.00	21.22	21.56	16.80	17.02	17.36		
	64QAM	1	0	20.38	20.73	20.78	16.18	16.53	16.58		
		1	1	20.43	20.77	21.08	16.23	16.57	16.88		
		1	104	20.61	21.00	21.02	16.41	16.80	16.82		
		1	105	20.55	20.62	21.03	16.35	16.42	16.83		
		50	25	20.52	20.70	21.03	16.32	16.50	16.83		
		100	0	20.56	20.72	21.05	16.36	16.52	16.85		
	256QAM	1	0	18.26	18.20	18.54	14.06	14.00	14.34		
		1	1	18.27	18.22	18.55	14.07	14.02	14.35		
		1	104	18.25	18.42	18.81	14.05	14.22	14.61		
		1	105	18.22	18.40	18.76	14.02	14.20	14.56		
		50	25	18.65	18.70	19.00	14.45	14.50	14.80		
		100	0	18.57	18.57	19.02	14.37	14.37	14.82		

NR n40 Subset 1										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					/	462000	/	/	462000	/
					/	2310	/	/	2310	/
10	PI/2 BPSK	30	1	0	/	21.93	/	/	19.23	/
			1	1	/	22.90	/	/	20.20	/
			12	6	/	22.95	/	/	20.25	/
			24	0	/	21.87	/	/	19.17	/
	QPSK		1	0	/	22.05	/	/	19.35	/
			1	1	/	22.92	/	/	20.22	/
			12	6	/	22.91	/	/	20.21	/
			24	0	/	21.83	/	/	19.13	/
	16QAM		1	0	/	21.01	/	/	18.31	/



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			1	1	/	21.82	/	/	19.12	/
			12	6	/	21.91	/	/	19.21	/
			24	0	/	20.97	/	/	18.27	/
	64QAM		1	0	/	20.45	/	/	17.75	/
			1	1	/	20.53	/	/	17.83	/
			12	6	/	20.40	/	/	17.70	/
	256QAM		24	0	/	20.44	/	/	17.74	/
			1	0	/	18.55	/	/	15.85	/
			1	1	/	18.50	/	/	15.80	/
			12	6	/	18.41	/	/	15.71	/
			24	0	/	18.42	/	/	15.72	/

NR n40 Subset 2										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					/	518598	/	/	518598	/
					/	2593	/	/	2593	/
10	PI/2 BPSK	30	1	0	/	21.83	/	/	19.13	/
			1	1	/	22.78	/	/	20.08	/
			12	6	/	22.80	/	/	20.10	/
			24	0	/	21.72	/	/	19.02	/
	QPSK		1	0	/	21.81	/	/	19.11	/
			1	1	/	22.79	/	/	20.09	/
			12	6	/	22.75	/	/	20.05	/
			24	0	/	21.73	/	/	19.03	/
	16QAM		1	0	/	21.04	/	/	18.34	/
			1	1	/	21.90	/	/	19.20	/
			12	6	/	21.81	/	/	19.11	/
			24	0	/	20.86	/	/	18.16	/
	64QAM		1	0	/	20.38	/	/	17.68	/
			1	1	/	20.35	/	/	17.65	/
			12	6	/	20.42	/	/	17.72	/
			24	0	/	20.41	/	/	17.71	/
	256QAM		1	0	/	18.46	/	/	15.76	/
			1	1	/	18.48	/	/	15.78	/
			12	6	/	18.42	/	/	15.72	/
			24	0	/	18.33	/	/	15.63	/



NR n66										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					342500	349000	355500	342500	349000	355500
					1712.5	1745	1777.5	1712.5	1745	1777.5
5	PI/2 BPSK	15	1	0	21.55	21.07	21.49	18.45	17.97	18.39
			1	1	22.09	22.02	21.95	18.99	18.92	18.85
			12	6	22.61	22.57	22.47	19.51	19.47	19.37
			25	0	22.03	21.29	21.84	18.93	18.19	18.74
	QPSK		1	0	21.45	20.98	21.40	18.35	17.88	18.30
			1	1	22.03	21.98	21.93	18.93	18.88	18.83
			12	6	22.59	22.63	22.48	19.49	19.53	19.38
			25	0	22.02	21.42	21.86	18.92	18.32	18.76
	16QAM		1	0	21.13	20.22	20.88	18.03	17.12	17.78
			1	1	22.09	21.28	21.98	18.99	18.18	18.88
			12	6	22.52	21.47	22.43	19.42	18.37	19.33
			25	0	21.55	20.27	21.26	18.45	17.17	18.16
	64QAM		1	0	19.93	19.65	20.07	16.83	16.55	16.97
			1	1	21.01	19.74	21.27	17.91	16.64	18.17
			12	6	21.60	20.05	21.54	18.50	16.95	18.44
			25	0	20.58	19.82	20.34	17.48	16.72	17.24
	256QAM		1	0	19.69	17.56	19.50	16.59	14.46	16.40
			1	1	19.59	17.31	19.66	16.49	14.21	16.56
			12	6	20.05	17.96	19.82	16.95	14.86	16.72
			25	0	19.95	17.91	19.75	16.85	14.81	16.65
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					343000	349000	355000	343000	349000	355000
					1715	1745	1775	1715	1745	1775
10	PI/2 BPSK	15	1	0	21.30	20.81	21.24	18.20	17.71	18.14
			1	1	21.86	21.76	21.71	18.76	18.66	18.61
			25	12	22.37	22.34	22.22	19.27	19.24	19.12
			50	0	21.78	21.02	21.58	18.68	17.92	18.48
	QPSK		1	0	21.21	20.72	21.15	18.11	17.62	18.05
			1	1	21.78	21.71	21.67	18.68	18.61	18.57
			25	12	22.34	22.36	22.22	19.24	19.26	19.12
			50	0	21.78	21.16	21.59	18.68	18.06	18.49
	16QAM		1	0	20.87	19.98	20.62	17.77	16.88	17.52
			1	1	21.85	21.03	21.74	18.75	17.93	18.64
			25	12	22.27	21.21	22.18	19.17	18.11	19.08



			50	0	21.30	20.03	21.01	18.20	16.93	17.91
	64QAM		1	0	19.68	19.38	19.81	16.58	16.28	16.71
			1	1	20.77	19.48	21.02	17.67	16.38	17.92
			25	12	21.36	19.79	21.27	18.26	16.69	18.17
			50	0	20.32	19.58	20.08	17.22	16.48	16.98
	256QAM		1	0	19.45	17.31	19.26	16.35	14.21	16.16
			1	1	19.34	17.05	19.41	16.24	13.95	16.31
			25	12	19.80	17.72	19.57	16.70	14.62	16.47
			50	0	19.70	17.64	19.49	16.60	14.54	16.39
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					343500	349000	354500	343500	349000	354500
					1717.5	1745	1772.5	1717.5	1745	1772.5
15	PI/2 BPSK	15	1	0	21.44	20.97	21.39	18.34	17.87	18.29
			1	1	22.01	21.93	21.87	18.91	18.83	18.77
			36	18	22.52	22.51	22.38	19.42	19.41	19.28
			75	0	21.98	21.24	21.81	18.88	18.14	18.71
	QPSK		1	0	21.43	20.92	21.37	18.33	17.82	18.27
			1	1	21.98	21.92	21.87	18.88	18.82	18.77
			36	18	22.49	22.52	22.37	19.39	19.42	19.27
			75	0	21.93	21.30	21.74	18.83	18.20	18.64
	16QAM		1	0	21.02	20.15	20.78	17.92	17.05	17.68
			1	1	21.99	21.19	21.89	18.89	18.09	18.79
			36	18	22.48	21.44	22.40	19.38	18.34	19.30
			75	0	21.51	20.26	21.23	18.41	17.16	18.13
	64QAM		1	0	19.88	19.60	20.04	16.78	16.50	16.94
			1	1	20.92	19.64	21.17	17.82	16.54	18.07
			36	18	21.51	19.93	21.42	18.41	16.83	18.32
			75	0	20.47	19.75	20.24	17.37	16.65	17.14
	256QAM		1	0	19.59	17.47	19.41	16.49	14.37	16.31
			1	1	19.55	17.28	19.63	16.45	14.18	16.53
			36	18	20.01	17.95	19.79	16.91	14.85	16.69
			75	0	19.90	17.86	19.72	16.80	14.76	16.62
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					344000	349000	354000	344000	349000	354000
					1720	1745	1770	1720	1745	1770
20	PI/2 BPSK	15	1	0	21.50	21.04	21.44	18.40	17.94	18.34
			1	1	22.08	21.98	21.93	18.98	18.88	18.83
			50	25	22.58	22.55	22.43	19.48	19.45	19.33
			100	0	22.04	21.28	21.86	18.94	18.18	18.76



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	QPSK		1	0	21.50	20.97	21.41	18.40	17.87	18.31
			1	1	22.05	21.99	21.92	18.95	18.89	18.82
			50	25	22.56	22.60	22.44	19.46	19.50	19.34
			100	0	21.99	21.35	21.80	18.89	18.25	18.70
	16QAM		1	0	21.08	20.22	20.84	17.98	17.12	17.74
			1	1	22.05	21.26	21.94	18.95	18.16	18.84
			50	25	22.55	21.49	22.46	19.45	18.39	19.36
			100	0	21.57	20.30	21.28	18.47	17.20	18.18
	64QAM		1	0	19.94	19.64	20.09	16.84	16.54	16.99
			1	1	20.99	19.69	21.21	17.89	16.59	18.11
			50	25	21.57	19.98	21.48	18.47	16.88	18.38
			100	0	20.53	19.82	20.30	17.43	16.72	17.20
	256QAM		1	0	19.65	17.54	19.46	16.55	14.44	16.36
			1	1	19.62	17.33	19.69	16.52	14.23	16.59
			50	25	20.07	17.99	19.84	16.97	14.89	16.74
			100	0	19.96	17.90	19.77	16.86	14.80	16.67
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					344500	349000	353500	344500	349000	353500
					1722.5	1745	1767.5	1722.5	1745	1767.5
25	PI/2 BPSK	15	1	0	21.49	21.02	21.44	18.39	17.92	18.34
			1	1	22.08	22.00	21.94	18.98	18.90	18.84
			64	32	22.57	22.56	22.43	19.47	19.46	19.33
			128	0	22.04	21.30	21.87	18.94	18.20	18.77
	QPSK		1	0	21.50	20.99	21.42	18.40	17.89	18.32
			1	1	22.04	22.00	21.94	18.94	18.90	18.84
			64	32	22.61	22.59	22.45	19.51	19.49	19.35
			128	0	21.98	21.35	21.79	18.88	18.25	18.69
	16QAM		1	0	21.08	20.23	20.84	17.98	17.13	17.74
			1	1	22.05	21.25	21.94	18.95	18.15	18.84
			64	32	22.55	21.51	22.47	19.45	18.41	19.37
			128	0	21.56	20.31	21.28	18.46	17.21	18.18
	64QAM		1	0	19.94	19.66	20.10	16.84	16.56	17.00
			1	1	20.99	19.71	21.22	17.89	16.61	18.12
			64	32	21.56	19.98	21.47	18.46	16.88	18.37
			128	0	20.53	19.83	20.30	17.43	16.73	17.20
	256QAM		1	0	19.65	17.53	19.46	16.55	14.43	16.36
			1	1	19.62	17.35	19.70	16.52	14.25	16.60
			64	32	20.06	18.00	19.84	16.96	14.90	16.74
			128	0	19.96	17.92	19.78	16.86	14.82	16.68
Bandwidth	Modulation	SCS	RB	RB	Maximum Output			EIRP		



(MHz)		(KHz)	Allocation	Offset	Power(dBm)			(dBm)		
					345000	349000	353000	345000	349000	353000
					1725	1745	1765	1725	1745	1765
30	PI/2 BPSK	15	1	0	21.41	20.91	21.35	18.31	17.81	18.25
			1	1	21.99	21.92	21.84	18.89	18.82	18.74
			80	40	22.47	22.44	22.32	19.37	19.34	19.22
			160	0	21.95	21.19	21.77	18.85	18.09	18.67
	QPSK		1	0	21.40	20.87	21.31	18.30	17.77	18.21
			1	1	21.94	21.90	21.83	18.84	18.80	18.73
			80	40	22.52	22.48	22.33	19.42	19.38	19.23
			160	0	21.86	21.26	21.70	18.76	18.16	18.60
	16QAM		1	0	20.99	20.13	20.75	17.89	17.03	17.65
			1	1	21.95	21.14	21.84	18.85	18.04	18.74
			80	40	22.45	21.42	22.37	19.35	18.32	19.27
			160	0	21.46	20.19	21.17	18.36	17.09	18.07
	64QAM		1	0	19.85	19.55	20.00	16.75	16.45	16.90
			1	1	20.89	19.59	21.11	17.79	16.49	18.01
			80	40	21.44	19.89	21.38	18.34	16.79	18.28
			160	0	20.44	19.73	20.21	17.34	16.63	17.11
	256QAM		1	0	19.55	17.42	19.36	16.45	14.32	16.26
			1	1	19.52	17.26	19.60	16.42	14.16	16.50
			80	40	19.96	17.88	19.73	16.86	14.78	16.63
			160	0	19.87	17.81	19.68	16.77	14.71	16.58
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					346000	349000	352000	346000	349000	352000
					1730	1745	1760	1730	1745	1760
40	PI/2 BPSK	15	1	0	21.75	21.24	21.69	18.65	18.14	18.59
			1	1	22.35	22.25	22.19	19.25	19.15	19.09
			108	54	22.82	22.80	22.66	19.72	19.70	19.56
			216	0	22.29	21.51	22.10	19.19	18.41	19.00
	QPSK		1	0	21.75	21.20	21.65	18.65	18.10	18.55
			1	1	22.28	22.22	22.16	19.18	19.12	19.06
			108	54	22.86	22.80	22.66	19.76	19.70	19.56
			216	0	22.21	21.59	22.02	19.11	18.49	18.92
	16QAM		1	0	21.32	20.48	21.08	18.22	17.38	17.98
			1	1	22.30	21.48	22.19	19.20	18.38	19.09
			108	54	22.79	21.75	22.71	19.69	18.65	19.61
			216	0	21.80	20.54	21.51	18.70	17.44	18.41
	64QAM		1	0	20.19	19.87	20.33	17.09	16.77	17.23
			1	1	21.24	19.92	21.45	18.14	16.82	18.35



Report		Report with Headers for 15 Hz								
		256QAM	108	54	21.79	20.22	21.70	18.69	17.12	18.60
			216	0	20.77	20.08	20.54	17.67	16.98	17.44
	1		0	19.90	17.76	19.71	16.80	14.66	16.61	
	1		1	19.86	17.59	19.94	16.76	14.49	16.84	
	108		54	20.30	18.23	20.07	17.20	15.13	16.97	
	216		0	20.21	18.13	20.01	17.11	15.03	16.91	

DC_2A-n66											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						342500	349000	355500	342500	349000	355500
						1712.5	1745	1777.5	1712.5	1745	1777.5
5	PI/2 BPSK	Band2-10M Hz-1880MHz-QPSK-1#0	15	1	0	20.96	20.63	21.23	18.16	17.83	18.43
				1	1	21.47	21.61	21.75	18.67	18.81	18.95
				12	6	22.27	22.45	22.69	19.47	19.65	19.89
				25	0	21.63	21.38	21.86	18.83	18.58	19.06
	QPSK			1	0	20.99	20.63	21.23	18.19	17.83	18.43
				1	1	21.53	21.57	21.74	18.73	18.77	18.94
				12	6	22.26	22.48	22.67	19.46	19.68	19.87
				25	0	21.71	21.37	21.96	18.91	18.57	19.16
	16QAM			1	0	19.58	19.55	19.92	16.78	16.75	17.12
				1	1	20.79	20.40	20.88	17.99	17.60	18.08
				12	6	21.15	21.29	21.55	18.35	18.49	18.75
				25	0	20.14	20.28	20.40	17.34	17.48	17.60
	64QAM			1	0	19.56	19.21	19.81	16.76	16.41	17.01
				1	1	20.62	19.29	20.76	17.82	16.49	17.96
				12	6	21.29	19.95	21.71	18.49	17.15	18.91
				25	0	20.25	19.77	20.38	17.45	16.97	17.58
	256QAM			1	0	18.81	17.30	19.01	16.01	14.50	16.21
				1	1	18.85	17.50	19.02	16.05	14.70	16.22
				12	6	19.67	17.96	20.08	16.87	15.16	17.28
				25	0	19.54	17.94	19.82	16.74	15.14	17.02
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						343000	349000	355000	343000	349000	355000
						1715	1745	1775	1715	1745	1775
10	PI/2 BPSK	Band2-10M Hz-1880MHz-QPSK-1#0	15	1	0	20.94	20.60	21.21	18.14	17.80	18.41
				1	1	21.47	21.58	21.74	18.67	18.78	18.94
				25	12	22.26	22.45	22.67	19.46	19.65	19.87
				50	0	21.61	21.34	21.83	18.81	18.54	19.03
	QPSK			1	0	20.98	20.60	21.21	18.18	17.80	18.41
				1	1	21.51	21.53	21.71	18.71	18.73	18.91



	16QAM			25	12	22.24	22.44	22.64	19.44	19.64	19.84		
				50	0	21.70	21.34	21.92	18.90	18.54	19.12		
				1	0	19.55	19.54	19.89	16.75	16.74	17.09		
				1	1	20.78	20.38	20.87	17.98	17.58	18.07		
				25	12	21.13	21.26	21.53	18.33	18.46	18.73		
				50	0	20.12	20.27	20.38	17.32	17.47	17.58		
	64QAM			1	0	19.54	19.17	19.78	16.74	16.37	16.98		
				1	1	20.61	19.26	20.74	17.81	16.46	17.94		
				25	12	21.28	19.92	21.67	18.48	17.12	18.87		
				50	0	20.22	19.76	20.35	17.42	16.96	17.55		
				1	0	18.80	17.28	19.00	16.00	14.48	16.20		
				1	1	18.83	17.47	19.00	16.03	14.67	16.20		
	256QAM			25	12	19.65	17.95	20.06	16.85	15.15	17.26		
				50	0	19.52	17.90	19.79	16.72	15.10	16.99		
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)				
						343500	349000	354500	343500	349000	354500		
						1717.5	1745	1772.5	1717.5	1745	1772.5		
15	PI/2 BPSK	Band2-10MHz-1880MHz-QPSK-1#0	15	1	0	20.94	20.62	21.22	18.14	17.82	18.42		
				1	1	21.48	21.61	21.76	18.68	18.81	18.96		
				36	18	22.27	22.48	22.69	19.47	19.68	19.89		
				75	0	21.67	21.42	21.92	18.87	18.62	19.12		
	QPSK			1	0	21.06	20.66	21.29	18.26	17.86	18.49		
				1	1	21.57	21.60	21.77	18.77	18.80	18.97		
				36	18	22.25	22.46	22.65	19.45	19.66	19.85		
				75	0	21.71	21.34	21.93	18.91	18.54	19.13		
	16QAM			1	0	19.56	19.57	19.91	16.76	16.77	17.11		
				1	1	20.78	20.40	20.88	17.98	17.60	18.08		
				36	18	21.20	21.35	21.61	18.40	18.55	18.81		
				75	0	20.19	20.36	20.46	17.39	17.56	17.66		
	64QAM			1	0	19.60	19.25	19.87	16.80	16.45	17.07		
				1	1	20.62	19.28	20.75	17.82	16.48	17.95		
				36	18	21.29	19.92	21.68	18.49	17.12	18.88		
				75	0	20.23	19.79	20.37	17.43	16.99	17.57		
	256QAM			1	0	18.80	17.30	19.01	16.00	14.50	16.21		
				1	1	18.90	17.56	19.08	16.10	14.76	16.28		
				36	18	19.72	18.04	20.14	16.92	15.24	17.34		
				75	0	19.58	17.98	19.88	16.78	15.18	17.08		
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)				
						344000	349000	354000	344000	349000	354000		



						1720	1745	1770	1720	1745	1770
20	PI/2 BPSK	Band2-10M Hz-1880MH z-QPSK-1# 0	15	1	0	20.97	20.66	21.24	18.17	17.86	18.44
				1	1	21.52	21.63	21.79	18.72	18.83	18.99
				50	25	22.30	22.49	22.71	19.50	19.69	19.91
				100	0	21.70	21.43	21.94	18.90	18.63	19.14
	QPSK			1	0	21.10	20.68	21.30	18.30	17.88	18.50
				1	1	21.61	21.64	21.79	18.81	18.84	18.99
				50	25	22.29	22.51	22.69	19.49	19.71	19.89
				100	0	21.74	21.36	21.96	18.94	18.56	19.16
	16QAM			1	0	19.59	19.61	19.94	16.79	16.81	17.14
				1	1	20.81	20.44	20.90	18.01	17.64	18.10
				50	25	21.24	21.37	21.64	18.44	18.57	18.84
				100	0	20.22	20.37	20.48	17.42	17.57	17.68
	64QAM			1	0	19.63	19.26	19.89	16.83	16.46	17.09
				1	1	20.66	19.30	20.76	17.86	16.50	17.96
				50	25	21.32	19.94	21.71	18.52	17.14	18.91
				100	0	20.26	19.83	20.40	17.46	17.03	17.60
256QAM	1	0	18.83	17.34	19.03	16.03	14.54	16.23			
	1	1	18.94	17.58	19.11	16.14	14.78	16.31			
	50	25	19.75	18.05	20.16	16.95	15.25	17.36			
	100	0	19.61	17.99	19.90	16.81	15.19	17.10			
Bandwidth (MHz)	Modulati on	Modulation (LTE)	SCS (KHz)	RB Allocatio n	RB Off set	Maximum Output Power(dBm)			EIRP (dBm)		
						344500	349000	35350 0	344500	349000	353500
						1722.5	1745	1767. 5	1722.5	1745	1767.5
25	PI/2 BPSK	Band2-10M Hz-1880MH z-QPSK-1# 0	15	1	0	21.05	20.73	21.33	18.25	17.93	18.53
				1	1	21.61	21.74	21.89	18.81	18.94	19.09
				64	32	22.38	22.59	22.80	19.58	19.79	20.00
				128	0	21.79	21.54	22.04	18.99	18.74	19.24
	QPSK			1	0	21.19	20.79	21.40	18.39	17.99	18.60
				1	1	21.69	21.74	21.90	18.89	18.94	19.10
				64	32	22.43	22.59	22.79	19.63	19.79	19.99
				128	0	21.82	21.45	22.04	19.02	18.65	19.24
	16QAM			1	0	19.68	19.71	20.03	16.88	16.91	17.23
				1	1	20.90	20.52	20.99	18.10	17.72	18.19
				64	32	21.33	21.48	21.74	18.53	18.68	18.94
				128	0	20.30	20.47	20.57	17.50	17.67	17.77
	64QAM			1	0	19.72	19.37	19.99	16.92	16.57	17.19
				1	1	20.75	19.41	20.86	17.95	16.61	18.06
				64	32	21.40	20.03	21.79	18.60	17.23	18.99
				128	0	20.35	19.93	20.49	17.55	17.13	17.69



	256QAM			1	0	18.92	17.42	19.12	16.12	14.62	16.32
				1	1	19.03	17.69	19.21	16.23	14.89	16.41
				64	32	19.83	18.15	20.25	17.03	15.35	17.45
				128	0	19.70	18.10	20.00	16.90	15.30	17.20
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						345000	349000	353000	345000	349000	353000
						1725	1745	1765	1725	1745	1765
30	PI/2 BPSK	Band2-10MHz-1880MHz-QPSK-1#0	15	1	0	21.21	20.86	21.48	18.41	18.06	18.68
				1	1	21.76	21.90	22.03	18.96	19.10	19.23
				80	40	22.52	22.71	22.93	19.72	19.91	20.13
				160	0	21.94	21.67	22.18	19.14	18.87	19.38
	QPSK			1	0	21.33	20.91	21.53	18.53	18.11	18.73
				1	1	21.83	21.88	22.03	19.03	19.08	19.23
				80	40	22.58	22.72	22.91	19.78	19.92	20.11
				160	0	21.94	21.60	22.19	19.14	18.80	19.39
	16QAM			1	0	19.83	19.85	20.18	17.03	17.05	17.38
				1	1	21.04	20.65	21.13	18.24	17.85	18.33
				80	40	21.47	21.63	21.88	18.67	18.83	19.08
				160	0	20.44	20.59	20.70	17.64	17.79	17.90
	64QAM			1	0	19.87	19.50	20.13	17.07	16.70	17.33
				1	1	20.89	19.53	20.99	18.09	16.73	18.19
				80	40	21.52	20.18	21.94	18.72	17.38	19.14
				160	0	20.50	20.07	20.64	17.70	17.27	17.84
	256QAM			1	0	19.06	17.55	19.26	16.26	14.75	16.46
				1	1	19.17	17.84	19.35	16.37	15.04	16.55
				80	40	19.97	18.27	20.38	17.17	15.47	17.58
				160	0	19.85	18.23	20.14	17.05	15.43	17.34
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						346000	349000	352000	346000	349000	352000
						1730	1745	1760	1730	1745	1760
40	PI/2 BPSK	Band2-10MHz-1880MHz-QPSK-1#0	15	1	0	21.38	21.02	21.65	18.58	18.22	18.85
				1	1	21.95	22.06	22.21	19.15	19.26	19.41
				108	54	22.70	22.90	23.10	19.90	20.10	20.30
				216	0	22.11	21.82	22.34	19.31	19.02	19.54
	QPSK			1	0	21.51	21.07	21.70	18.71	18.27	18.90
				1	1	22.00	22.03	22.19	19.20	19.23	19.39
				108	54	22.75	22.87	23.07	19.95	20.07	20.27
				216	0	22.12	21.76	22.34	19.32	18.96	19.54
	16QAM			1	0	19.99	20.03	20.34	17.19	17.23	17.54



	64QAM			1	1	21.22	20.82	21.31	18.42	18.02	18.51
				108	54	21.64	21.79	22.05	18.84	18.99	19.25
				216	0	20.61	20.77	20.87	17.81	17.97	18.07
				1	0	20.04	19.65	20.29	17.24	16.85	17.49
				1	1	21.07	19.69	21.16	18.27	16.89	18.36
				108	54	21.70	20.34	22.09	18.90	17.54	19.29
	256QAM			216	0	20.66	20.25	20.80	17.86	17.45	18.00
				1	0	19.24	17.72	19.44	16.44	14.92	16.64
				1	1	19.34	18.00	19.52	16.54	15.20	16.72
				108	54	20.14	18.45	20.55	17.34	15.65	17.75
				216	0	20.02	18.38	20.30	17.22	15.58	17.50

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Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				630334	633332	636332	630334	633332	636332
				3455.01	3500	3544.98	3455.01	3500	3544.98
10	BPSK	1	0	20.42	20.42	20.59	17.92	17.92	18.09
		1	1	23.48	23.59	23.71	20.98	21.09	21.21
		12	6	24.33	24.05	24.31	21.83	21.55	21.81
		24	0	21.14	21.10	20.79	18.64	18.60	18.29
	QPSK	1	0	24.43	24.44	24.50	21.93	21.94	22.00
		1	1	23.88	23.79	23.41	21.38	21.29	20.91
		12	6	20.37	20.42	20.58	17.87	17.92	18.08
		24	0	23.52	23.65	23.66	21.02	21.15	21.16
	16QAM	1	0	24.17	24.17	24.22	21.67	21.67	21.72
		1	1	20.94	21.07	20.70	18.44	18.57	18.20
		12	6	24.49	24.42	24.51	21.99	21.92	22.01
		24	0	23.90	23.99	23.40	21.40	21.49	20.90
	64QAM	1	0	20.55	20.74	20.41	18.05	18.24	17.91
		1	1	22.86	22.68	22.55	20.36	20.18	20.05
		12	6	23.48	23.25	23.23	20.98	20.75	20.73
		24	0	21.21	21.25	20.65	18.71	18.75	18.15
	256QAM	1	0	23.36	23.41	23.60	20.86	20.91	21.10
		1	1	22.35	22.52	22.35	19.85	20.02	19.85
		12	6	20.34	20.42	20.55	17.84	17.92	18.05
		24	0	22.60	22.85	21.58	20.10	20.35	19.08
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			Antenna 5 EIRP (dBm)		
				630500	633332	636166	630500	633332	636166
				3457.5	3500	3542.49	3457.5	3500	3542.49
15	BPSK	1	0	20.42	20.50	20.66	17.92	18.00	18.16
		1	1	23.65	23.61	23.82	21.15	21.11	21.32



		19	9	24.33	24.23	24.30	21.83	21.73	21.80
		38	0	21.22	21.03	20.72	18.72	18.53	18.22
	QPSK	1	0	24.63	24.65	24.55	22.13	22.15	22.05
		1	1	23.99	24.02	23.57	21.49	21.52	21.07
		19	9	20.52	20.60	20.69	18.02	18.10	18.19
		38	0	23.55	23.75	23.79	21.05	21.25	21.29
	16QAM	1	0	24.31	24.29	24.36	21.81	21.79	21.86
		1	1	21.11	21.18	20.72	18.61	18.68	18.22
		19	9	24.59	24.59	24.70	22.09	22.09	22.20
		38	0	23.96	24.05	23.50	21.46	21.55	21.00
	64QAM	1	0	20.76	20.78	20.49	18.26	18.28	17.99
		1	1	22.88	22.81	22.67	20.38	20.31	20.17
		19	9	23.49	23.29	23.18	20.99	20.79	20.68
		38	0	21.22	21.29	20.78	18.72	18.79	18.28
	256QAM	1	0	23.52	23.46	23.52	21.02	20.96	21.02
		1	1	22.50	22.58	22.39	20.00	20.08	19.89
		19	9	22.09	22.07	20.24	19.59	19.57	17.74
		38	0	21.98	22.06	20.18	19.48	19.56	17.68
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				630666	633332	635998	630666	633332	635998
				3460	3500	3540	3460	3500	3540
20	BPSK	1	0	20.43	20.58	20.59	17.93	18.08	18.09
		1	1	23.64	23.54	23.64	21.14	21.04	21.14
		1	49	24.33	24.10	24.19	21.83	21.60	21.69
		1	50	21.15	21.10	20.70	18.65	18.60	18.20
		25	12	24.56	24.46	24.67	22.06	21.96	22.17
		50	0	23.92	23.91	23.44	21.42	21.41	20.94
	QPSK	1	0	20.39	20.56	20.68	17.89	18.06	18.18
		1	1	23.60	23.71	23.68	21.10	21.21	21.18
		1	49	24.10	24.21	24.19	21.60	21.71	21.69
		1	50	21.05	21.11	20.75	18.55	18.61	18.25
		25	12	24.54	24.54	24.55	22.04	22.04	22.05
		50	0	24.01	23.88	23.56	21.51	21.38	21.06
	16QAM	1	0	20.71	20.86	20.44	18.21	18.36	17.94
		1	1	22.76	22.74	22.73	20.26	20.24	20.23
		1	49	23.52	23.21	23.20	21.02	20.71	20.70
		1	50	21.29	21.23	20.59	18.79	18.73	18.09
		25	12	23.42	23.47	23.52	20.92	20.97	21.02
		50	0	22.31	22.39	22.43	19.81	19.89	19.93
	64QAM	1	0	20.36	20.50	20.51	17.86	18.00	18.01
		1	1	22.68	22.69	21.58	20.18	20.19	19.08



		1	49	23.23	23.28	21.69	20.73	20.78	19.19
		1	50	21.04	20.91	20.68	18.54	18.41	18.18
		25	12	23.60	23.51	22.01	21.10	21.01	19.51
		50	0	22.37	22.44	21.99	19.87	19.94	19.49
	256QAM	1	0	20.10	20.14	19.39	17.60	17.64	16.89
		1	1	21.34	21.00	19.58	18.84	18.50	17.08
		1	49	21.52	21.25	20.05	19.02	18.75	17.55
		1	50	20.37	20.61	20.04	17.87	18.11	17.54
		25	12	21.95	22.04	20.21	19.45	19.54	17.71
		50	0	21.88	22.03	20.17	19.38	19.53	17.67
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				631332	633332	635332	631332	633332	635332
				3470	3500	3530	3470	3500	3530
40	BPSK	1	0	20.46	20.50	20.73	17.96	18.00	18.23
		1	1	23.68	23.76	23.85	21.18	21.26	21.35
		1	104	24.28	24.16	24.25	21.78	21.66	21.75
		1	105	21.19	21.06	20.82	18.69	18.56	18.32
		50	25	24.60	24.53	24.57	22.10	22.03	22.07
		100	0	23.99	23.95	23.46	21.49	21.45	20.96
	QPSK	1	0	20.41	20.60	20.58	17.91	18.10	18.08
		1	1	23.69	23.75	23.85	21.19	21.25	21.35
		1	104	24.17	24.20	24.31	21.67	21.70	21.81
		1	105	21.15	21.16	20.79	18.65	18.66	18.29
		50	25	24.62	24.48	24.66	22.12	21.98	22.16
		100	0	24.05	23.94	23.60	21.55	21.44	21.10
	16QAM	1	0	20.72	20.90	20.57	18.22	18.40	18.07
		1	1	22.82	22.85	22.79	20.32	20.35	20.29
		1	104	23.54	23.33	23.30	21.04	20.83	20.80
		1	105	21.37	21.26	20.78	18.87	18.76	18.28
		50	25	23.44	23.46	23.51	20.94	20.96	21.01
		100	0	22.39	22.61	22.53	19.89	20.11	20.03
	64QAM	1	0	20.37	20.50	20.56	17.87	18.00	18.06
		1	1	22.61	22.88	21.59	20.11	20.38	19.09
		1	104	23.19	23.44	21.75	20.69	20.94	19.25
		1	105	21.23	20.95	20.69	18.73	18.45	18.19
		50	25	23.63	23.65	22.06	21.13	21.15	19.56
		100	0	22.54	22.59	21.90	20.04	20.09	19.40
	256QAM	1	0	20.19	20.26	19.42	17.69	17.76	16.92
		1	1	21.37	21.01	19.68	18.87	18.51	17.18
		1	104	21.59	21.37	20.15	19.09	18.87	17.65
		1	105	20.52	20.64	19.98	18.02	18.14	17.48



		50	25	22.10	22.07	20.27	19.60	19.57	17.77
		100	0	22.09	22.00	20.27	19.59	19.50	17.77
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				631666	633332	634998	631666	633332	634998
				3475	3500	3525	3475	3500	3525
50	BPSK	1	0	20.32	20.31	20.47	17.82	17.81	17.97
		1	1	23.48	23.48	23.55	20.98	20.98	21.05
		1	131	24.13	24.04	24.09	21.63	21.54	21.59
		1	132	21.04	21.00	20.68	18.54	18.50	18.18
		64	32	24.41	24.33	24.50	21.91	21.83	22.00
		128	0	23.72	23.78	23.29	21.22	21.28	20.79
	QPSK	1	0	20.35	20.41	20.55	17.85	17.91	18.05
		1	1	23.49	23.43	23.62	20.99	20.93	21.12
		1	131	24.11	24.06	24.13	21.61	21.56	21.63
		1	132	21.00	20.93	20.59	18.50	18.43	18.09
		64	32	24.46	24.31	24.49	21.96	21.81	21.99
		128	0	23.75	23.79	23.37	21.25	21.29	20.87
	16QAM	1	0	20.47	20.57	20.32	17.97	18.07	17.82
		1	1	22.70	22.66	22.59	20.20	20.16	20.09
		1	131	23.44	23.19	23.11	20.94	20.69	20.61
		1	132	21.07	21.04	20.55	18.57	18.54	18.05
		64	32	23.36	23.30	23.38	20.86	20.80	20.88
		128	0	22.32	22.44	22.27	19.82	19.94	19.77
	64QAM	1	0	20.33	20.37	20.34	17.83	17.87	17.84
		1	1	22.48	22.61	21.44	19.98	20.11	18.94
		1	131	23.02	23.11	21.52	20.52	20.61	19.02
		1	132	21.03	20.78	20.49	18.53	18.28	17.99
		64	32	23.36	23.40	21.87	20.86	20.90	19.37
		128	0	22.30	22.31	21.78	19.80	19.81	19.28
	256QAM	1	0	20.03	20.08	19.41	17.53	17.58	16.91
		1	1	21.21	20.93	19.45	18.71	18.43	16.95
		1	131	21.46	21.13	19.82	18.96	18.63	17.32
		1	132	20.16	20.58	19.91	17.66	18.08	17.41
		64	32	21.94	22.04	20.10	19.44	19.54	17.60
		128	0	21.82	21.77	20.14	19.32	19.27	17.64



Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				632000	633332	634666	632000	633332	634666
				3480	3500	3520	3480	3500	3520
60	BPSK	1	0	20.29	20.43	20.49	17.79	17.93	17.99
		1	1	23.60	23.58	23.63	21.10	21.08	21.13
		1	160	24.16	24.13	24.26	21.66	21.63	21.76
		1	161	21.05	21.00	20.70	18.55	18.50	18.20
		81	40	24.41	24.44	24.62	21.91	21.94	22.12
		162	0	23.73	23.76	23.47	21.23	21.26	20.97
	QPSK	1	0	20.35	20.40	20.57	17.85	17.90	18.07
		1	1	23.58	23.54	23.63	21.08	21.04	21.13
		1	160	24.15	24.06	24.11	21.65	21.56	21.61
		1	161	21.07	20.97	20.76	18.57	18.47	18.26
		81	40	24.42	24.50	24.50	21.92	22.00	22.00
		162	0	23.79	23.95	23.42	21.29	21.45	20.92
	16QAM	1	0	20.61	20.66	20.34	18.11	18.16	17.84
		1	1	22.87	22.71	22.64	20.37	20.21	20.14
		1	160	23.38	23.25	23.22	20.88	20.75	20.72
		1	161	21.22	21.23	20.69	18.72	18.73	18.19
		81	40	23.33	23.37	23.57	20.83	20.87	21.07
		162	0	22.30	22.40	22.32	19.80	19.90	19.82
	64QAM	1	0	20.39	20.31	20.52	17.89	17.81	18.02
		1	1	22.63	22.64	21.50	20.13	20.14	19.00
		1	160	23.26	23.28	21.75	20.76	20.78	19.25
		1	161	21.11	20.87	20.54	18.61	18.37	18.04
		81	40	23.50	23.36	21.99	21.00	20.86	19.49
		162	0	22.35	22.42	21.79	19.85	19.92	19.29
	256QAM	1	0	20.06	20.14	19.31	17.56	17.64	16.81
		1	1	21.24	21.02	19.58	18.74	18.52	17.08
		1	160	21.53	21.25	20.04	19.03	18.75	17.54
		1	161	20.26	20.67	19.96	17.76	18.17	17.46
		81	40	22.07	21.95	20.20	19.57	19.45	17.70
		162	0	21.97	22.00	20.06	19.47	19.50	17.56
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				632333	633332	634333	632333	633332	634333
				3485	3500	3515	3485	3500	3515
70	BPSK	1	0	20.43	20.54	20.65	17.93	18.04	18.15
		1	1	23.53	23.62	23.79	21.03	21.12	21.29
		1	187	24.22	24.13	24.40	21.72	21.63	21.90
		1	188	21.22	21.06	20.67	18.72	18.56	18.17
		90	45	24.64	24.66	24.55	22.14	22.16	22.05



		180	0	23.84	23.86	23.44	21.34	21.36	20.94
	QPSK	1	0	20.38	20.47	20.61	17.88	17.97	18.11
		1	1	23.65	23.62	23.75	21.15	21.12	21.25
		1	187	24.30	24.17	24.23	21.80	21.67	21.73
		1	188	21.14	21.01	20.79	18.64	18.51	18.29
		90	45	24.56	24.48	24.61	22.06	21.98	22.11
		180	0	23.92	23.98	23.55	21.42	21.48	21.05
	16QAM	1	0	20.59	20.87	20.44	18.09	18.37	17.94
		1	1	22.97	22.87	22.70	20.47	20.37	20.20
		1	187	23.55	23.20	23.25	21.05	20.70	20.75
		1	188	21.31	21.27	20.63	18.81	18.77	18.13
		90	45	23.48	23.49	23.48	20.98	20.99	20.98
		180	0	22.49	22.47	22.36	19.99	19.97	19.86
	64QAM	1	0	20.38	20.46	20.53	17.88	17.96	18.03
		1	1	22.69	22.85	21.51	20.19	20.35	19.01
		1	187	23.32	23.42	21.72	20.82	20.92	19.22
		1	188	21.10	20.99	20.62	18.60	18.49	18.12
		90	45	23.61	23.50	22.05	21.11	21.00	19.55
		180	0	22.51	22.42	22.06	20.01	19.92	19.56
	256QAM	1	0	20.28	20.22	19.43	17.78	17.72	16.93
		1	1	21.27	21.07	19.63	18.77	18.57	17.13
		1	187	21.59	21.38	20.09	19.09	18.88	17.59
		1	188	20.35	20.67	20.00	17.85	18.17	17.50
		90	45	22.11	22.14	20.19	19.61	19.64	17.69
		180	0	22.05	21.98	20.15	19.55	19.48	17.65
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				632666	633332	633998	632666	633332	633998
				3490	3500	3510	3490	3500	3510
80	BPSK	1	0	20.23	20.40	20.53	17.73	17.90	18.03
		1	1	23.44	23.64	23.61	20.94	21.14	21.11
		1	215	24.30	24.05	24.33	21.80	21.55	21.83
		1	216	20.96	21.01	20.59	18.46	18.51	18.09
		108	54	24.47	24.44	24.61	21.97	21.94	22.11
		216	0	23.87	23.76	23.41	21.37	21.26	20.91
	QPSK	1	0	20.40	20.37	20.57	17.90	17.87	18.07
		1	1	23.43	23.59	23.64	20.93	21.09	21.14
		1	215	24.20	24.17	24.16	21.70	21.67	21.66
		1	216	20.99	21.08	20.69	18.49	18.58	18.19
		108	54	24.56	24.45	24.60	22.06	21.95	22.10
		216	0	23.81	23.85	23.36	21.31	21.35	20.86
	16QAM	1	0	20.54	20.80	20.44	18.04	18.30	17.94



		1	1	22.78	22.61	22.67	20.28	20.11	20.17
		1	215	23.39	23.29	23.24	20.89	20.79	20.74
		1	216	21.30	21.21	20.64	18.80	18.71	18.14
		108	54	23.35	23.42	23.52	20.85	20.92	21.02
		216	0	22.26	22.46	22.38	19.76	19.96	19.88
		216	0	22.26	22.46	22.38	19.76	19.96	19.88
	64QAM	1	0	20.29	20.39	20.39	17.79	17.89	17.89
		1	1	22.51	22.81	21.52	20.01	20.31	19.02
		1	215	23.12	23.32	21.73	20.62	20.82	19.23
		1	216	21.11	20.94	20.57	18.61	18.44	18.07
		108	54	23.51	23.53	21.93	21.01	21.03	19.43
		216	0	22.34	22.34	21.98	19.84	19.84	19.48
	256QAM	1	0	20.22	20.07	19.33	17.72	17.57	16.83
		1	1	21.15	21.04	19.43	18.65	18.54	16.93
		1	215	21.51	21.18	19.94	19.01	18.68	17.44
		1	216	20.27	20.58	19.97	17.77	18.08	17.47
		108	54	22.07	22.04	20.15	19.57	19.54	17.65
		216	0	21.87	21.97	20.12	19.37	19.47	17.62
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				633000	633332	633666	633000	633332	633666
				3495	3500	3505	3495	3500	3505
90	BPSK	1	0	20.68	20.84	20.91	18.18	18.34	18.41
		1	1	23.88	23.94	24.04	21.38	21.44	21.54
		1	243	24.59	24.47	24.60	22.09	21.97	22.10
		1	244	21.41	21.38	21.04	18.91	18.88	18.54
		120	60	24.83	24.85	24.90	22.33	22.35	22.40
		243	0	24.17	24.20	23.81	21.67	21.70	21.31
	QPSK	1	0	20.75	20.80	20.92	18.25	18.30	18.42
		1	1	23.87	23.94	24.04	21.37	21.44	21.54
		1	243	24.50	24.47	24.56	22.00	21.97	22.06
		1	244	21.37	21.37	21.04	18.87	18.87	18.54
		120	60	24.86	24.80	24.91	22.36	22.30	22.41
		243	0	24.24	24.28	23.81	21.74	21.78	21.31
	16QAM	1	0	20.95	21.09	20.76	18.45	18.59	18.26
		1	1	23.17	23.06	22.96	20.67	20.56	20.46
		1	243	23.80	23.56	23.52	21.30	21.06	21.02
		1	244	21.58	21.58	20.97	19.08	19.08	18.47
		120	60	23.79	23.77	23.85	21.29	21.27	21.35
		243	0	22.70	22.80	22.72	20.20	20.30	20.22
	64QAM	1	0	20.72	20.74	20.80	18.22	18.24	18.30
		1	1	22.95	23.10	21.87	20.45	20.60	19.37
		1	243	23.54	23.62	22.03	21.04	21.12	19.53



		1	244	21.43	21.29	20.98	18.93	18.79	18.48
		120	60	23.86	23.82	22.37	21.36	21.32	19.87
		243	0	22.77	22.77	22.25	20.27	20.27	19.75
	256QAM	1	0	20.49	20.49	19.77	17.99	17.99	17.27
		1	1	21.57	21.36	19.86	19.07	18.86	17.36
		1	243	21.82	21.60	20.35	19.32	19.10	17.85
		1	244	20.69	20.98	20.28	18.19	18.48	17.78
		120	60	22.35	22.40	20.56	19.85	19.90	18.06
		243	0	22.27	22.29	20.52	19.77	19.79	18.02
Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
				/	633332	/	/	633332	/
				/	3500	/	/	3500	/
100	BPSK	1	0	/	20.59	/	/	18.09	/
		1	1	/	23.77	/	/	21.27	/
		1	271	/	24.36	/	/	21.86	/
		1	272	/	20.81	/	/	18.31	/
		135	67	/	24.71	/	/	22.21	/
		270	0	/	23.65	/	/	21.15	/
	QPSK	1	0	/	20.55	/	/	18.05	/
		1	1	/	23.70	/	/	21.20	/
		1	271	/	24.16	/	/	21.66	/
		1	272	/	20.66	/	/	18.16	/
		135	67	/	24.94	/	/	22.44	/
		270	0	/	23.57	/	/	21.07	/
	16QAM	1	0	/	20.79	/	/	18.29	/
		1	1	/	22.88	/	/	20.38	/
		1	271	/	21.00	/	/	18.50	/
		1	272	/	20.99	/	/	18.49	/
		135	67	/	23.81	/	/	21.31	/
		270	0	/	22.64	/	/	20.14	/
	64QAM	1	0	/	20.56	/	/	18.06	/
		1	1	/	22.81	/	/	20.31	/
		1	271	/	23.40	/	/	20.90	/
		1	272	/	20.79	/	/	18.29	/
		135	67	/	23.80	/	/	21.30	/
		270	0	/	22.64	/	/	20.14	/
	256QAM	1	0	/	20.29	/	/	17.79	/
		1	1	/	21.23	/	/	18.73	/
		1	271	/	21.37	/	/	18.87	/
		1	272	/	20.51	/	/	18.01	/
		135	67	/	22.28	/	/	19.78	/



		270	0	/	22.18	/	/	19.68	/
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DC_5A-n78 Subset 1										
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					630334	633332	636332	630334	633332	636332
					3455.01	3500	3544.98	3455.01	3500	3544.98
10	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	21.38	21.39	21.50	18.88	18.89	19.00
			1	1	20.77	20.26	20.37	18.27	17.76	17.87
			12	6	18.65	18.30	18.31	16.15	15.80	15.81
			24	0	19.69	19.41	19.40	17.19	16.91	16.90
	QPSK		1	0	20.46	19.92	20.02	17.96	17.42	17.52
			1	1	18.63	18.89	19.19	16.13	16.39	16.69
			12	6	20.42	20.27	20.37	17.92	17.77	17.87
			24	0	19.11	19.36	19.20	16.61	16.86	16.70
	16QAM		1	0	18.50	18.15	18.31	16.00	15.65	15.81
			1	1	19.50	18.14	18.36	17.00	15.64	15.86
			12	6	18.72	20.10	20.16	16.22	17.60	17.66
			24	0	18.71	18.97	19.19	16.21	16.47	16.69
	64QAM		1	0	18.71	20.11	20.23	16.21	17.61	17.73
			1	1	18.51	19.19	19.09	16.01	16.69	16.59
			12	6	17.71	16.27	16.25	15.21	13.77	13.75
			24	0	17.83	16.22	16.26	15.33	13.72	13.76
	256QAM		1	0	16.37	18.37	18.59	13.87	15.87	16.09
			1	1	16.47	18.33	18.36	13.97	15.83	15.86
			12	6	16.57	18.69	18.67	14.07	16.19	16.17
			24	0	16.45	18.68	18.69	13.95	16.18	16.19
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					630500	633332	636166	630500	633332	636166
					3457.5	3500	3542.49	3457.5	3500	3542.49
15	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	21.43	21.33	21.37	18.93	18.83	18.87
			1	1	20.77	20.28	20.32	18.27	17.78	17.82
			19	9	18.64	18.48	18.35	16.14	15.98	15.85
			38	0	19.80	19.39	19.42	17.30	16.89	16.92
	QPSK		1	0	20.40	20.01	20.16	17.90	17.51	17.66
			1	1	18.59	18.83	19.08	16.09	16.33	16.58
			19	9	20.44	20.40	20.50	17.94	17.90	18.00
			38	0	19.22	19.24	19.34	16.72	16.74	16.84
	16QAM		1	0	18.52	18.16	18.32	16.02	15.66	15.82
			1	1	19.63	18.17	18.36	17.13	15.67	15.86



			19	9	18.85	20.03	20.21	16.35	17.53	17.71	
			38	0	18.76	19.12	19.25	16.26	16.62	16.75	
			64QAM	1	0	18.76	20.30	20.19	16.26	17.80	17.69
				1	1	18.45	19.08	19.10	15.95	16.58	16.60
				19	9	17.83	16.21	16.13	15.33	13.71	13.63
				38	0	17.78	16.23	16.23	15.28	13.73	13.73
			256QAM	1	0	16.30	18.47	18.55	13.80	15.97	16.05
				1	1	16.55	18.33	18.35	14.05	15.83	15.85
				19	9	16.65	18.77	18.68	14.15	16.27	16.18
				38	0	16.46	18.62	18.61	13.96	16.12	16.11
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)			
					630666	633332	635998	630666	633332	635998	
					3460	3500	3540	3460	3500	3540	
20	BPSK	Band5-5MH z-836.5MHz -QPSK-1#0	1	0	20.00	19.58	19.69	17.50	17.08	17.19	
			1	1	20.49	20.66	20.80	17.99	18.16	18.30	
			1	49	20.94	20.98	20.94	18.44	18.48	18.44	
			1	50	20.01	20.10	20.29	17.51	17.60	17.79	
			25	12	21.32	21.31	21.35	18.82	18.81	18.85	
			50	0	20.78	20.32	20.22	18.28	17.82	17.72	
	QPSK		1	0	19.90	19.63	19.69	17.40	17.13	17.19	
			1	1	20.53	20.59	20.76	18.03	18.09	18.26	
			1	49	20.95	20.90	21.03	18.45	18.40	18.53	
			1	50	19.96	20.10	20.15	17.46	17.60	17.65	
			25	12	21.44	21.45	21.38	18.94	18.95	18.88	
			50	0	20.80	20.20	20.27	18.30	17.70	17.77	
	16QAM		1	0	18.72	18.47	18.42	16.22	15.97	15.92	
			1	1	19.86	19.36	19.41	17.36	16.86	16.91	
			1	49	20.42	19.99	20.15	17.92	17.49	17.65	
			1	50	18.52	18.92	19.06	16.02	16.42	16.56	
			25	12	20.34	20.33	20.49	17.84	17.83	17.99	
			50	0	19.12	19.35	19.20	16.62	16.85	16.70	
	64QAM		1	0	18.44	18.14	18.39	15.94	15.64	15.89	
			1	1	19.61	18.13	18.39	17.11	15.63	15.89	
			1	49	18.81	19.98	20.16	16.31	17.48	17.66	
			1	50	18.77	19.07	19.14	16.27	16.57	16.64	
			25	12	18.72	20.26	20.30	16.22	17.76	17.80	
			50	0	18.42	19.06	19.23	15.92	16.56	16.73	
	256QAM		1	0	17.81	16.24	16.18	15.31	13.74	13.68	
			1	1	17.81	16.36	16.16	15.31	13.86	13.66	
			1	49	16.30	18.34	18.48	13.80	15.84	15.98	



Bandwidth (MHz)	Modulation	Modulation (LTE)	1	50	16.51	18.30	18.33	14.01	15.80	15.83
			25	12	16.73	18.71	18.68	14.23	16.21	16.18
			50	0	16.49	18.61	18.64	13.99	16.11	16.14
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					631332	633332	635332	631332	633332	635332
					3470	3500	3530	3470	3500	3530
40	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	20.05	19.59	19.63	17.55	17.09	17.13
			1	1	20.50	20.67	20.71	18.00	18.17	18.21
			1	104	21.03	21.04	20.91	18.53	18.54	18.41
			1	105	19.99	20.08	20.19	17.49	17.58	17.69
			50	25	21.40	21.29	21.49	18.90	18.79	18.99
			100	0	20.82	20.24	20.32	18.32	17.74	17.82
	QPSK		1	0	20.02	19.59	19.60	17.52	17.09	17.10
			1	1	20.53	20.60	20.74	18.03	18.10	18.24
			1	104	20.95	21.00	20.96	18.45	18.50	18.46
			1	105	19.98	20.09	20.08	17.48	17.59	17.58
			50	25	21.33	21.32	21.48	18.83	18.82	18.98
			100	0	20.68	20.17	20.23	18.18	17.67	17.73
	16QAM		1	0	18.59	18.41	18.40	16.09	15.91	15.90
			1	1	19.84	19.38	19.50	17.34	16.88	17.00
			1	104	20.39	20.07	20.16	17.89	17.57	17.66
			1	105	18.61	18.84	19.15	16.11	16.34	16.65
			50	25	20.38	20.29	20.42	17.88	17.79	17.92
			100	0	19.26	19.18	19.25	16.76	16.68	16.75
	64QAM		1	0	18.52	18.14	18.30	16.02	15.64	15.80
			1	1	19.59	18.10	18.33	17.09	15.60	15.83
			1	104	18.82	20.06	20.23	16.32	17.56	17.73
			1	105	18.78	19.05	19.04	16.28	16.55	16.54
			50	25	18.65	20.11	20.32	16.15	17.61	17.82
			100	0	18.52	19.04	19.25	16.02	16.54	16.75
	256QAM		1	0	17.82	16.18	16.23	15.32	13.68	13.73
			1	1	17.82	16.33	16.18	15.32	13.83	13.68
			1	104	16.24	18.28	18.51	13.74	15.78	16.01
			1	105	16.47	18.27	18.42	13.97	15.77	15.92
			50	25	16.65	18.65	18.79	14.15	16.15	16.29
			100	0	16.48	18.60	18.72	13.98	16.10	16.22
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					632000	633332	634666	632000	633332	634666
					3480	3500	3520	3480	3500	3520



50	BPSK	Band5-5MHz-836.5MHz-QPSK-1#0	1	0	20.38	20.00	20.01	17.88	17.50	17.51
			1	1	20.80	20.90	21.07	18.30	18.40	18.57
			1	131	21.29	21.29	21.25	18.79	18.79	18.75
			1	132	20.39	20.33	20.47	17.89	17.83	17.97
			64	32	21.72	21.67	21.76	19.22	19.17	19.26
			128	0	21.02	20.58	20.59	18.52	18.08	18.09
	QPSK		1	0	20.21	19.96	19.90	17.71	17.46	17.40
			1	1	20.78	21.01	21.03	18.28	18.51	18.53
			1	131	21.27	21.36	21.32	18.77	18.86	18.82
			1	132	20.25	20.42	20.36	17.75	17.92	17.86
			64	32	21.75	21.76	21.65	19.25	19.26	19.15
			128	0	21.03	20.53	20.55	18.53	18.03	18.05
	16QAM		1	0	19.01	18.69	18.78	16.51	16.19	16.28
			1	1	20.14	19.78	19.73	17.64	17.28	17.23
			1	131	20.86	20.32	20.37	18.36	17.82	17.87
			1	132	18.93	19.17	19.52	16.43	16.67	17.02
			64	32	20.63	20.68	20.69	18.13	18.18	18.19
			128	0	19.51	19.66	19.56	17.01	17.16	17.06
	64QAM		1	0	18.80	18.38	18.66	16.30	15.88	16.16
			1	1	19.90	18.43	18.65	17.40	15.93	16.15
			1	131	19.12	20.31	20.54	16.62	17.81	18.04
			1	132	19.05	19.40	19.50	16.55	16.90	17.00
			64	32	18.92	20.44	20.59	16.42	17.94	18.09
			128	0	18.73	19.45	19.49	16.23	16.95	16.99
	256QAM		1	0	18.06	16.48	16.42	15.56	13.98	13.92
			1	1	18.19	16.67	16.61	15.69	14.17	14.11
			1	131	16.63	18.65	18.81	14.13	16.15	16.31
			1	132	16.82	18.76	18.66	14.32	16.26	16.16
			64	32	17.00	18.99	19.00	14.50	16.49	16.50
			128	0	16.76	19.00	18.96	14.26	16.50	16.46
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					632000	633332	634666	632000	633332	634666
					3480	3500	3520	3480	3500	3520
60	BPSK	Band5-5MHz-836.5MHz-QPSK-1#0	1	0	20.10	19.78	19.65	17.60	17.28	17.15
			1	1	20.60	20.75	20.86	18.10	18.25	18.36
			1	160	20.99	21.06	21.20	18.49	18.56	18.70
			1	161	20.12	20.10	20.38	17.62	17.60	17.88
			81	40	21.45	21.54	21.51	18.95	19.04	19.01
			162	0	20.79	20.34	20.41	18.29	17.84	17.91
	QPSK		1	0	20.06	19.67	19.77	17.56	17.17	17.27



			1	1	20.65	20.73	20.78	18.15	18.23	18.28	
			1	160	21.03	21.15	21.19	18.53	18.65	18.69	
			1	161	20.08	20.06	20.22	17.58	17.56	17.72	
			81	40	21.52	21.40	21.57	19.02	18.90	19.07	
			162	0	20.89	20.35	20.41	18.39	17.85	17.91	
	16QAM		1	0	18.83	18.55	18.46	16.33	16.05	15.96	
			1	1	19.78	19.53	19.63	17.28	17.03	17.13	
			1	160	20.65	20.16	20.22	18.15	17.66	17.72	
			1	161	18.66	18.86	19.19	16.16	16.36	16.69	
			81	40	20.57	20.51	20.46	18.07	18.01	17.96	
	64QAM		162	0	19.24	19.40	19.33	16.74	16.90	16.83	
			1	0	18.63	18.21	18.44	16.13	15.71	15.94	
			1	1	19.70	18.37	18.48	17.20	15.87	15.98	
			1	160	18.96	20.10	20.27	16.46	17.60	17.77	
			1	161	18.79	19.12	19.33	16.29	16.62	16.83	
	256QAM		81	40	18.70	20.36	20.39	16.20	17.86	17.89	
			162	0	18.66	19.13	19.19	16.16	16.63	16.69	
			1	0	17.97	16.37	16.26	15.47	13.87	13.76	
			1	1	17.91	16.46	16.30	15.41	13.96	13.80	
			1	160	16.39	18.49	18.62	13.89	15.99	16.12	
			1	161	16.57	18.55	18.42	14.07	16.05	15.92	
			81	40	16.81	18.74	18.81	14.31	16.24	16.31	
			162	0	16.68	18.72	18.85	14.18	16.22	16.35	
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)			
					632666	633332	633998	632666	633332	633998	
					3490	3500	3510	3490	3500	3510	
70	BPSK	Band5-5MHz-836.5MHz-QPSK-1#0	1	0	20.19	19.89	20.00	17.69	17.39	17.50	
			1	1	20.87	20.89	21.00	18.37	18.39	18.50	
			1	187	21.21	21.32	21.37	18.71	18.82	18.87	
			1	188	20.26	20.26	20.50	17.76	17.76	18.00	
			90	45	21.57	21.65	21.74	19.07	19.15	19.24	
			180	0	20.96	20.49	20.50	18.46	17.99	18.00	
	QPSK		1	0	20.29	19.84	19.85	17.79	17.34	17.35	
			1	1	20.87	20.91	21.05	18.37	18.41	18.55	
			1	187	21.26	21.28	21.23	18.76	18.78	18.73	
			1	188	20.26	20.25	20.43	17.76	17.75	17.93	
			90	45	21.67	21.69	21.74	19.17	19.19	19.24	
			180	0	20.99	20.56	20.53	18.49	18.06	18.03	
	16QAM		1	0	18.97	18.70	18.68	16.47	16.20	16.18	
			1	1	20.13	19.68	19.84	17.63	17.18	17.34	



			1	187	20.82	20.27	20.33	18.32	17.77	17.83	
			1	188	18.76	19.10	19.45	16.26	16.60	16.95	
			90	45	20.76	20.63	20.80	18.26	18.13	18.30	
			180	0	19.44	19.49	19.63	16.94	16.99	17.13	
	64QAM		1	0	18.84	18.48	18.62	16.34	15.98	16.12	
			1	1	19.83	18.37	18.59	17.33	15.87	16.09	
			1	187	19.08	20.38	20.57	16.58	17.88	18.07	
			1	188	18.93	19.23	19.39	16.43	16.73	16.89	
	256QAM		90	45	19.01	20.46	20.50	16.51	17.96	18.00	
			180	0	18.79	19.34	19.43	16.29	16.84	16.93	
			1	0	18.06	16.58	16.49	15.56	14.08	13.99	
			1	1	18.12	16.52	16.43	15.62	14.02	13.93	
			1	187	16.61	18.57	18.72	14.11	16.07	16.22	
			1	188	16.81	18.74	18.71	14.31	16.24	16.21	
			90	45	16.94	18.99	19.09	14.44	16.49	16.59	
			180	0	16.78	18.96	18.91	14.28	16.46	16.41	
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)			
					632666	633332	633998	632666	633332	633998	
					3490	3500	3510	3490	3500	3510	
80	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	20.02	19.74	19.68	17.52	17.24	17.18	
			1	1	20.49	20.60	20.80	17.99	18.10	18.30	
			1	215	20.99	21.09	21.13	18.49	18.59	18.63	
			1	216	20.03	20.05	20.14	17.53	17.55	17.64	
			108	54	21.37	21.48	21.39	18.87	18.98	18.89	
			216	0	20.78	20.28	20.42	18.28	17.78	17.92	
	QPSK		1	0	19.95	19.55	19.69	17.45	17.05	17.19	
			1	1	20.63	20.69	20.80	18.13	18.19	18.30	
			1	215	21.07	21.04	21.11	18.57	18.54	18.61	
			1	216	20.00	19.98	20.02	17.50	17.48	17.52	
			108	54	21.39	21.38	21.43	18.89	18.88	18.93	
			216	0	20.68	20.37	20.31	18.18	17.87	17.81	
	16QAM		1	0	18.77	18.37	18.43	16.27	15.87	15.93	
			1	1	19.85	19.46	19.43	17.35	16.96	16.93	
			1	215	20.48	20.09	20.10	17.98	17.59	17.60	
			1	216	18.57	18.93	19.18	16.07	16.43	16.68	
			108	54	20.40	20.33	20.45	17.90	17.83	17.95	
			216	0	19.16	19.34	19.24	16.66	16.84	16.74	
	64QAM		1	0	18.57	18.13	18.34	16.07	15.63	15.84	
			1	1	19.68	18.16	18.30	17.18	15.66	15.80	
			1	215	18.84	20.06	20.27	16.34	17.56	17.77	



			1	216	18.75	19.04	19.19	16.25	16.54	16.69
			108	54	18.74	20.23	20.22	16.24	17.73	17.72
			216	0	18.57	19.19	19.13	16.07	16.69	16.63
			1	0	17.87	16.29	16.33	15.37	13.79	13.83
			1	1	17.90	16.39	16.26	15.40	13.89	13.76
			1	215	16.35	18.33	18.54	13.85	15.83	16.04
			1	216	16.57	18.42	18.42	14.07	15.92	15.92
			108	54	16.61	18.82	18.78	14.11	16.32	16.28
			216	0	16.55	18.72	18.74	14.05	16.22	16.24
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					633000	633332	633666	633000	633332	633666
					3495	3500	3505	3495	3500	3505
90	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	20.52	20.14	20.17	18.02	17.64	17.67
			1	1	21.05	21.18	21.24	18.55	18.68	18.74
			1	243	21.51	21.51	21.54	19.01	19.01	19.04
			1	244	20.53	20.54	20.72	18.03	18.04	18.22
			120	60	21.88	21.79	21.86	19.38	19.29	19.36
			243	0	21.27	20.78	20.83	18.77	18.28	18.33
	QPSK		1	0	20.50	20.12	20.19	18.00	17.62	17.69
			1	1	21.06	21.16	21.24	18.56	18.66	18.74
			1	243	21.51	21.50	21.54	19.01	19.00	19.04
			1	244	20.54	20.55	20.60	18.04	18.05	18.10
			120	60	21.87	21.89	21.75	19.37	19.39	19.25
			243	0	21.25	20.80	20.84	18.75	18.30	18.34
	16QAM		1	0	19.19	18.90	18.93	16.69	16.40	16.43
			1	1	20.29	19.96	20.01	17.79	17.46	17.51
			1	243	20.99	20.53	20.62	18.49	18.03	18.12
			1	244	19.10	19.37	19.65	16.60	16.87	17.15
			120	60	20.92	20.90	20.97	18.42	18.40	18.47
			243	0	19.72	19.81	19.81	17.22	17.31	17.31
	64QAM		1	0	19.02	18.67	18.82	16.52	16.17	16.32
			1	1	20.08	18.71	18.83	17.58	16.21	16.33
			1	243	19.35	20.55	20.74	16.85	18.05	18.24
			1	244	19.27	19.56	19.67	16.77	17.06	17.17
			120	60	19.19	20.74	20.79	16.69	18.24	18.29
			243	0	19.02	19.64	19.70	16.52	17.14	17.20
	256QAM		1	0	18.33	16.79	16.73	15.83	14.29	14.23
			1	1	18.36	16.83	16.76	15.86	14.33	14.26
			1	243	16.85	18.91	19.04	14.35	16.41	16.54
			1	244	16.98	18.90	18.94	14.48	16.40	16.44

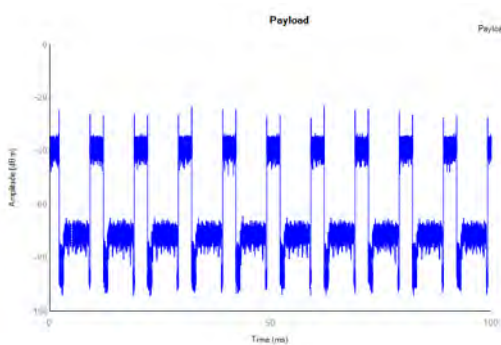


RF Test Report			Report No.: RZ200A0499-R3							
			120	60	17.17	19.25	19.26	14.67	16.75	16.76
			243	0	17.05	19.16	19.19	14.55	16.66	16.69
Bandwidth (MHz)	Modulation	Modulation (LTE)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					/	633332	/	/	633332	/
					/	3500	/	/	3500	/
100	BPSK	Band5-5MHz z-836.5MHz -QPSK-1#0	1	0	/	20.42	/	/	17.92	/
			1	1	/	20.97	/	/	18.47	/
			1	271	/	21.14	/	/	18.64	/
			1	272	/	20.61	/	/	18.11	/
			135	67	/	21.91	/	/	19.41	/
			270	0	/	21.29	/	/	18.79	/
	QPSK		1	0	/	20.40	/	/	17.90	/
			1	1	/	20.97	/	/	18.47	/
			1	271	/	21.16	/	/	18.66	/
			1	272	/	20.60	/	/	18.10	/
			135	67	/	21.88	/	/	19.38	/
			270	0	/	21.27	/	/	18.77	/
	16QAM		1	0	/	19.12	/	/	16.62	/
			1	1	/	20.18	/	/	17.68	/
			1	271	/	20.75	/	/	18.25	/
			1	272	/	19.70	/	/	17.20	/
			135	67	/	20.91	/	/	18.41	/
			270	0	/	19.75	/	/	17.25	/
	64QAM		1	0	/	18.96	/	/	16.46	/
			1	1	/	20.02	/	/	17.52	/
			1	271	/	20.55	/	/	18.05	/
			1	272	/	19.51	/	/	17.01	/
			135	67	/	20.91	/	/	18.41	/
			270	0	/	19.75	/	/	17.25	/
	256QAM		1	0	/	18.08	/	/	15.58	/
			1	1	/	18.09	/	/	15.59	/
			1	271	/	18.67	/	/	16.17	/
			1	272	/	18.65	/	/	16.15	/
			135	67	/	19.40	/	/	16.90	/
			270	0	/	19.27	/	/	16.77	/

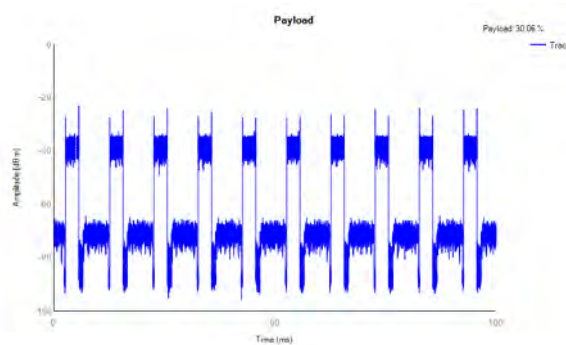
Power Spectral Density and Duty Cycle for LTE Band 40

Duty Cycle

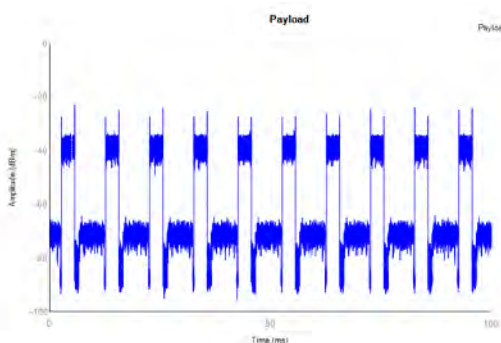
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



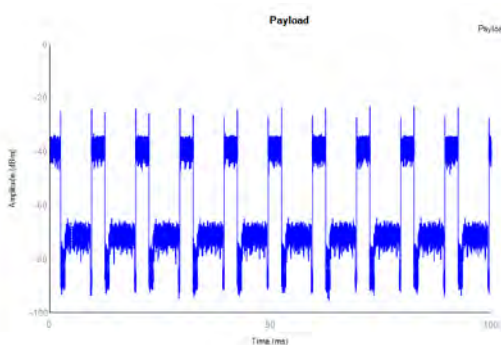
LTE Band 40 Subset 1 QPSK 10MHz



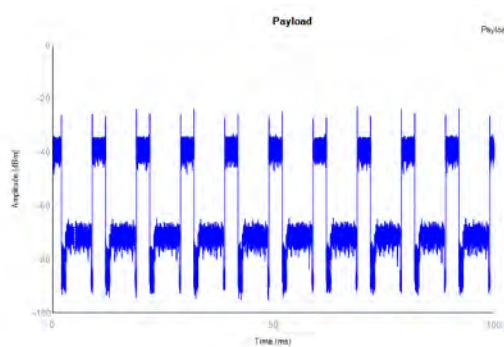
LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



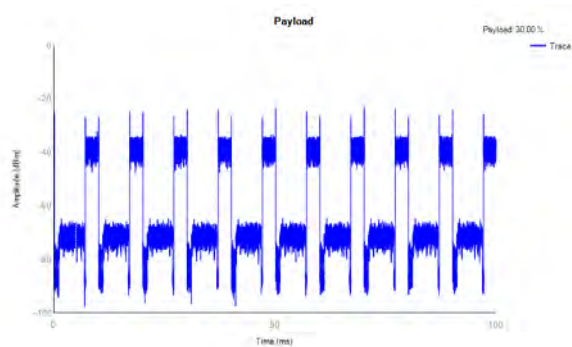
LTE Band 40 Subset 1 QPSK 5MHz CH-High



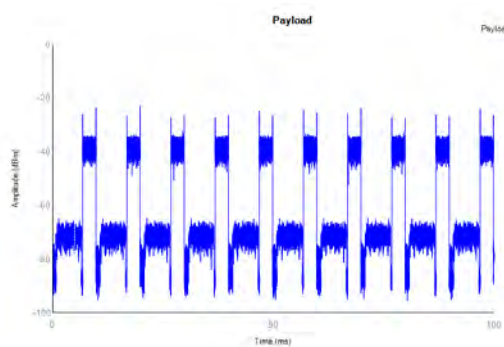
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



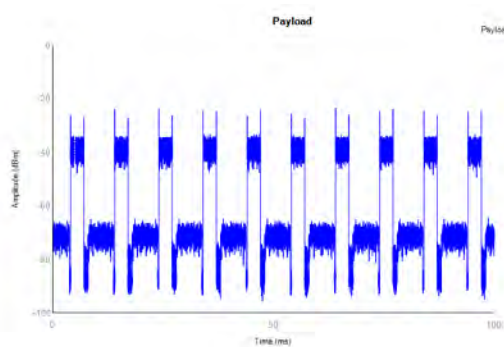
LTE Band 40 Subset 1 16QAM 10MHz



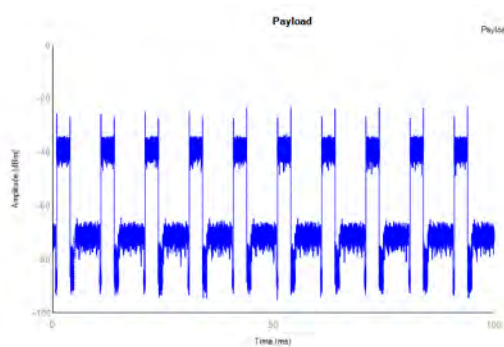
LTE Band 40 Subset 1 16QAM 5MHz CH-Middle



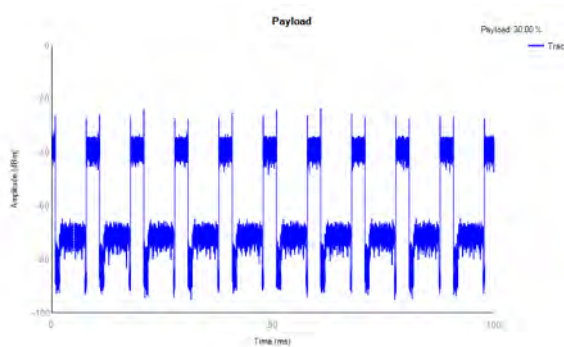
LTE Band 40 Subset 1 16QAM 5MHz CH-High



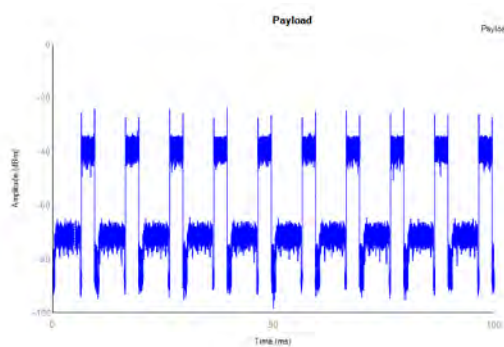
LTE Band 40 Subset 1 64QAM 5MHz CH-Low



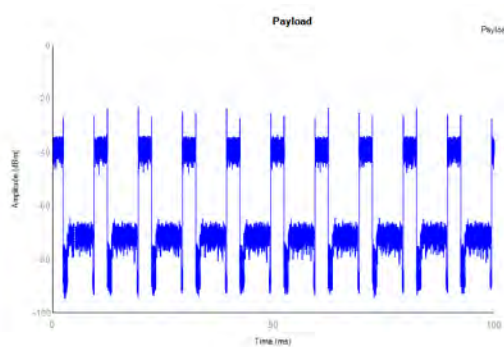
LTE Band 40 Subset 1 64QAM 10MHz



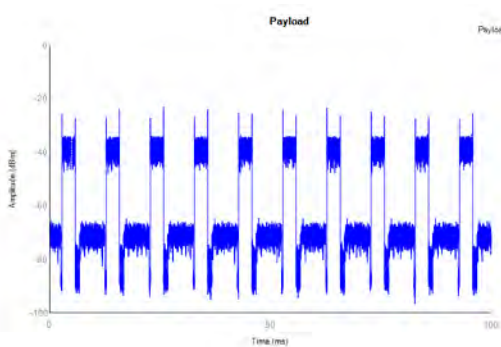
LTE Band 40 Subset 1 64QAM 5MHz CH-Middle



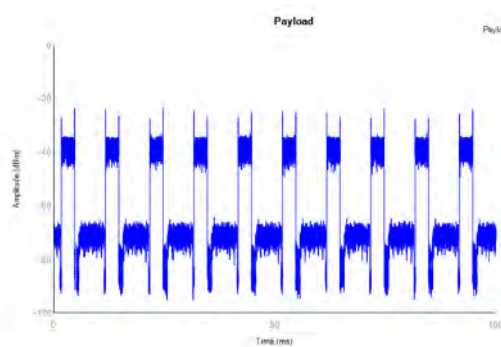
LTE Band 40 Subset 1 64QAM 5MHz CH-High



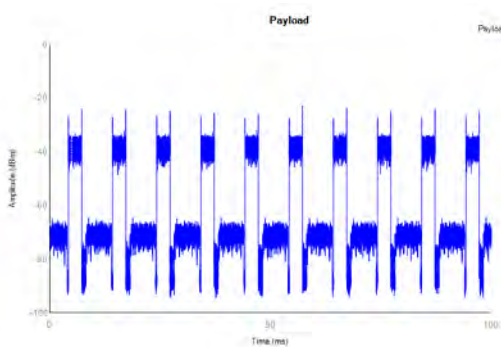
LTE Band 40 Subset 2 QPSK 5MHz CH-Low



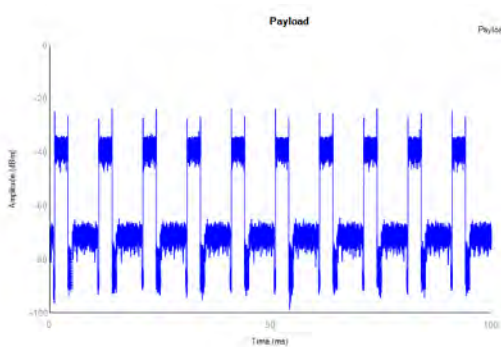
LTE Band 40 Subset 2 QPSK 10MHz



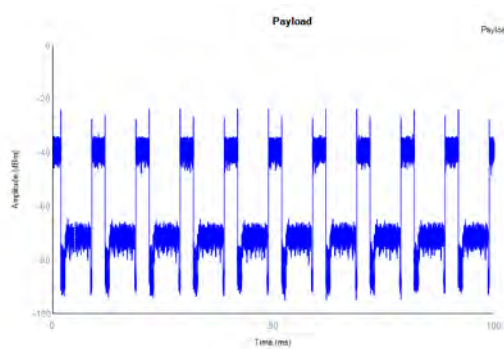
LTE Band 40 Subset 2 QPSK 5MHz CH-Middle



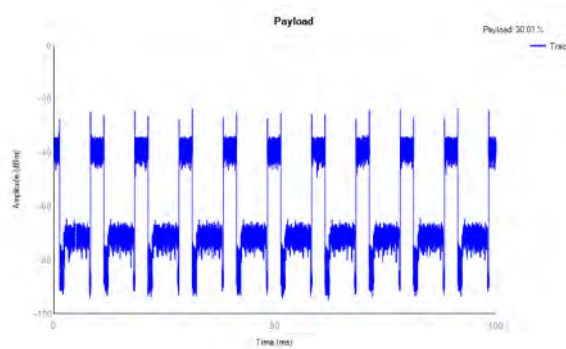
LTE Band 40 Subset 2 QPSK 5MHz CH-High



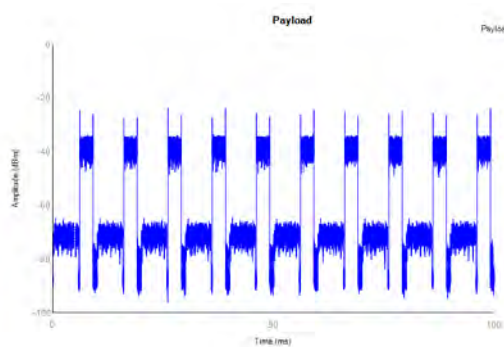
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



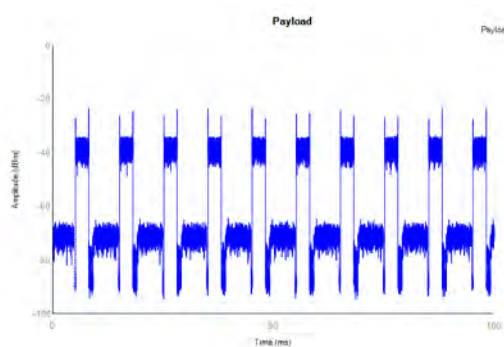
LTE Band 40 Subset 2 16QAM 10MHz



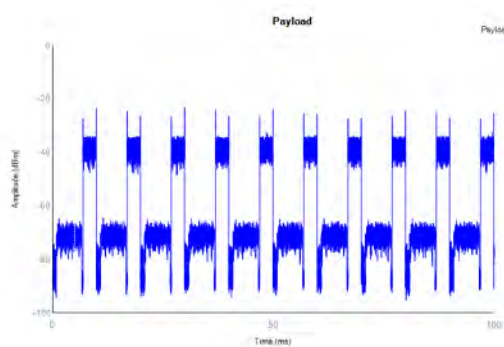
LTE Band 40 Subset 2 16QAM 5MHz CH-Middle



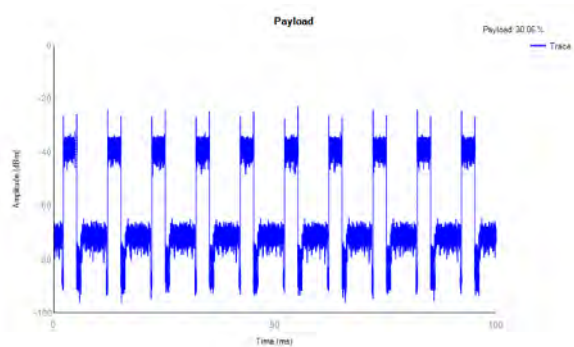
LTE Band 40 Subset 2 16QAM 5MHz CH-High



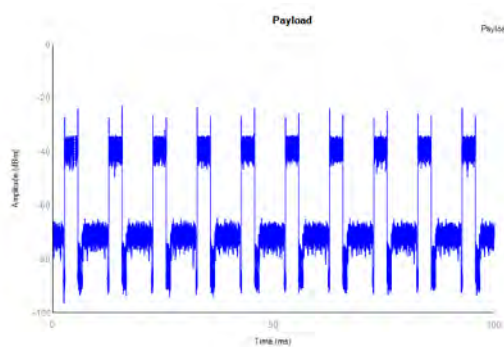
LTE Band 40 Subset 2 64QAM 5MHz CH-Low



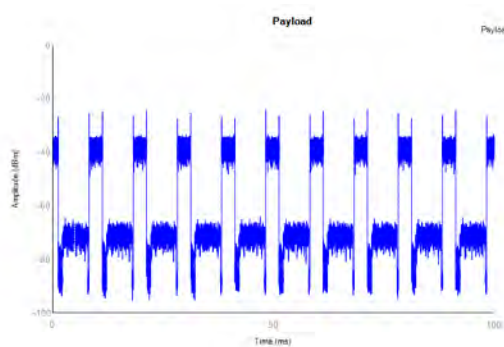
LTE Band 40 Subset 2 64QAM 10MHz



LTE Band 40 Subset 2 64QAM 5MHz CH-Middle



LTE Band 40 Subset 2 64QAM 5MHz CH-High





LTE Band 40 Subset 1				Conducted Power Spectral Density (dBm/MHz)			EIRP Power Spectra Density (dBm/MHz)			EIRP Power Spectra Density (mW/MHz)			Limit (mW/MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	21.991	21.707	21.761	19.291	19.007	19.061	84.938	79.561	80.556	250
	16QAM	25	0	19.948	21.569	21.910	17.248	18.869	19.210	53.064	77.073	83.368	250
	64QAM	25	0	19.315	20.850	21.323	16.615	18.150	18.623	45.867	65.313	72.828	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW/MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	18.700			16.000			39.811			250
	16QAM	50	0	17.918			15.218			33.251			250
	64QAM	50	0	17.443			14.743			29.806			250

LTE Band 40 Subset 1				Conducted Power Spectral Density (dBm/5MHz)			EIRP Power Spectra Density (dBm/5MHz)			EIRP Power Spectra Density (mW/5MHz)			Limit (mW /5MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	24.276	24.489	24.459	21.576	21.789	21.759	143.747	150.973	149.934	250
	16QAM	25	0	23.860	24.407	25.110	21.160	21.707	22.410	130.617	148.149	174.181	250
	64QAM	50	0	23.785	23.520	24.426	21.085	20.820	21.726	128.381	120.781	148.799	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /5MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	22.725			20.025			100.577			250
	16QAM	50	0	22.460			19.760			94.624			250
	64QAM	50	0	22.033			19.333			85.763			250



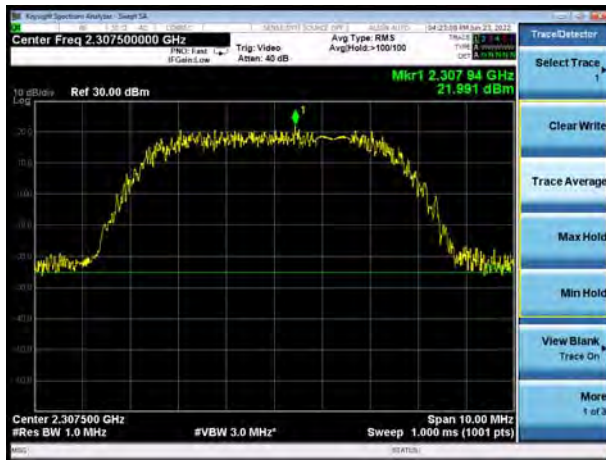
LTE Band 40 Subset 2				Conducted Power Spectral Density (dBm/MHz)			EIRP Power Spectra Density (dBm/MHz)			EIRP Power Spectra Density (mW/MHz)			Limit (mW /MHz)
BW	Mddulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/310	38775/312.5	38725/2307.5	38750/310	38775/312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	21.077	20.957	21.090	18.377	18.257	18.390	68.818	66.942	69.024	250
	16QAM	25	0	21.143	21.171	19.877	18.443	18.471	17.177	69.871	70.323	52.204	250
	64QAM	25	0	20.766	19.186	20.288	18.066	16.486	17.588	64.062	44.525	57.385	250
BW	Mddulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	18.118			15.418			34.818			250
	16QAM	50	0	17.624			14.924			31.074			250
	64QAM	50	0	16.992			14.292			26.866			250

LTE Band 40 Subset 2				Conducted Power Spectral Density (dBm/5MHz)			EIRP Power Spectra Density (dBm/5MHz)			EIRP Power Spectra Density (mW/5MHz)			Limit (mW /5MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/310	38775/2312.5	38725/2307.5	38750/310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	24.168	23.878	23.698	21.468	21.178	20.998	140.217	131.160	125.835	250
	16QAM	25	0	23.801	24.281	23.803	21.101	21.581	21.103	128.855	143.913	128.914	250
	64QAM	50	0	23.662	23.822	22.865	20.962	21.122	20.165	124.796	129.479	103.872	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /5MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	22.246			19.546			90.074			250
	16QAM	50	0	21.748			19.048			80.316			250
	64QAM	50	0	21.615			18.915			77.893			250



Power Spectral Density (dBm/MHz)

LTE Band 40 Subset 1 QPSK 5MHz CH-Low



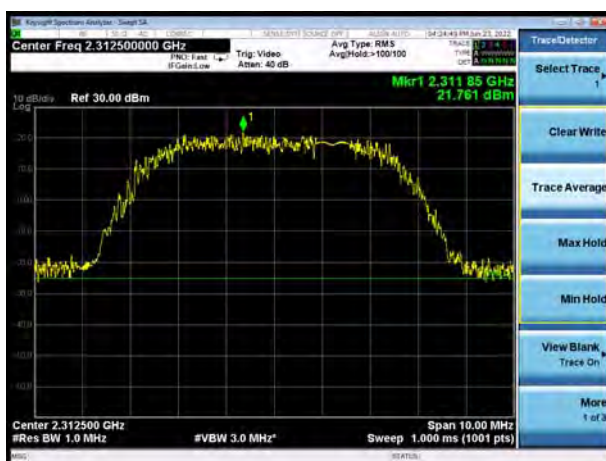
LTE Band 40 Subset 1 QPSK 10MHz



LTE Band 40 Subset 1 QPSK 5MHz CH-Middle

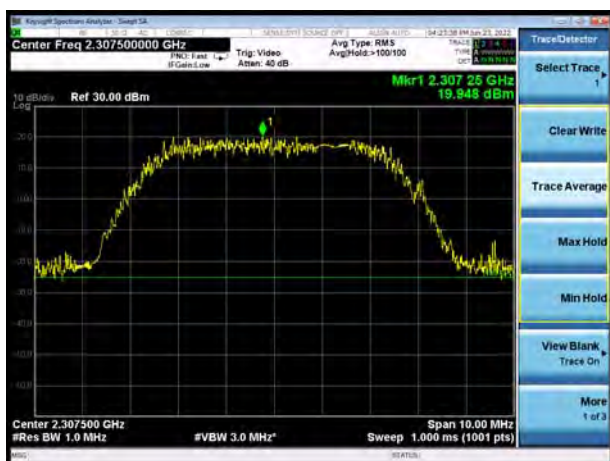


LTE Band 40 Subset 1 QPSK 5MHz CH-High

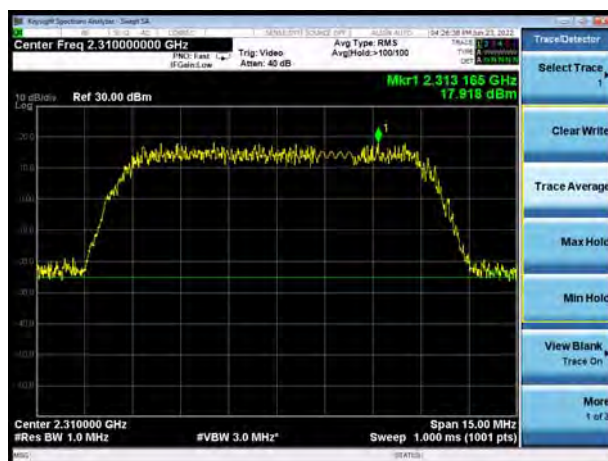




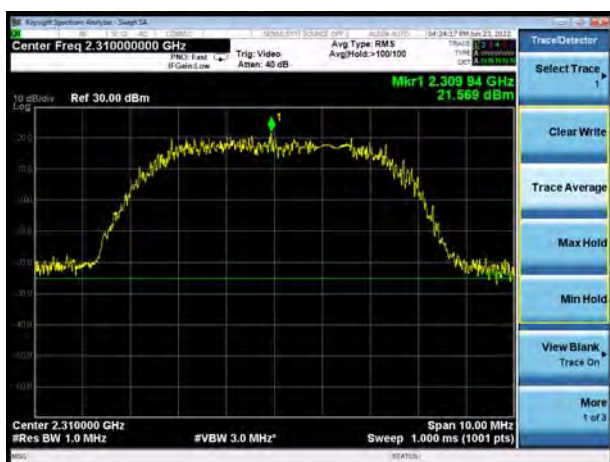
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



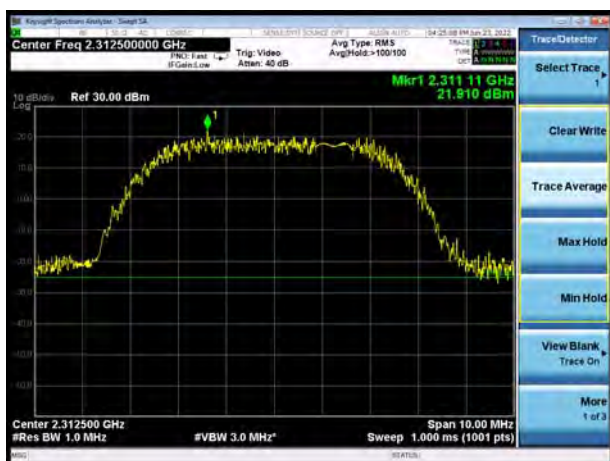
LTE Band 40 Subset 1 16QAM 10MHz



LTE Band 40 Subset 1 16QAM 5MHz CH-Middle

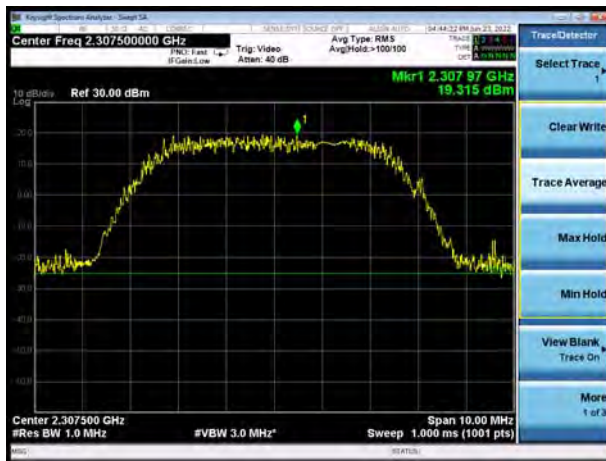


LTE Band 40 Subset 1 16QAM 5MHz CH-High





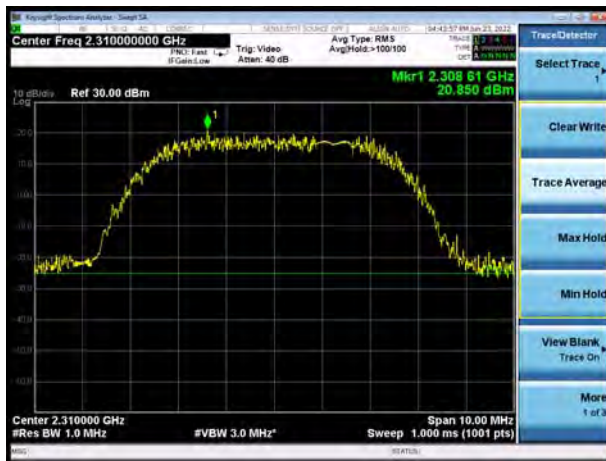
LTE Band 40 Subset 1 64QAM 5MHz CH-Low



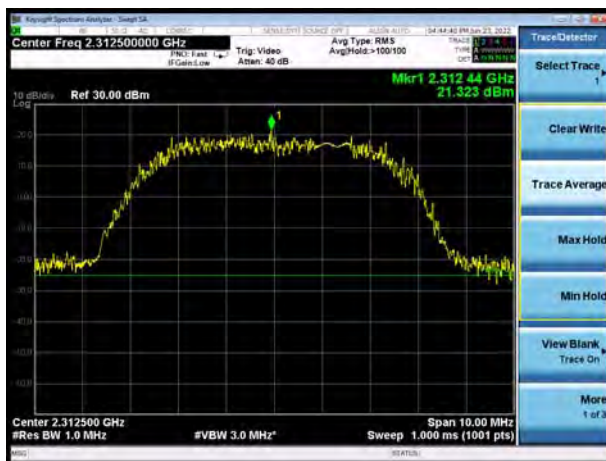
LTE Band 40 Subset 1 64QAM 10MHz



LTE Band 40 Subset 1 64QAM 5MHz CH-Middle



LTE Band 40 Subset 1 64QAM 5MHz CH-High





Power Spectral Density (dBm/5MHz)

LTE Band 40 Subset 1 QPSK 5MHz CH-Low



LTE Band 40 Subset 1 QPSK 10MHz



LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



LTE Band 40 Subset 1 QPSK 5MHz CH-High





LTE Band 40 Subset 1 16QAM 5MHz CH-Low



LTE Band 40 Subset 1 16QAM 10MHz



LTE Band 40 Subset 1 16QAM 5MHz CH-Middle

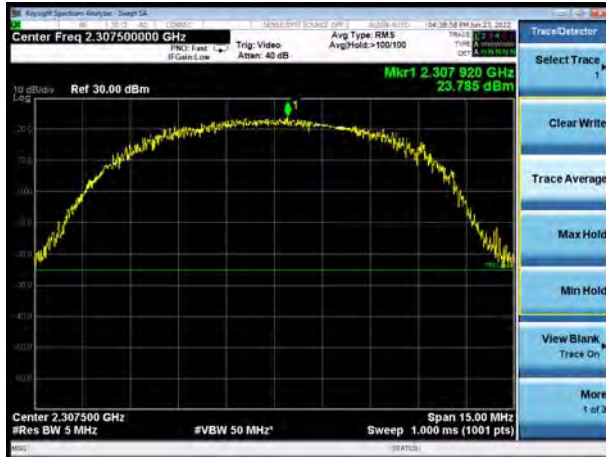


LTE Band 40 Subset 1 16QAM 5MHz CH-High





LTE Band 40 Subset 1 64QAM 5MHz CH-Low



LTE Band 40 Subset 1 64QAM 10MHz



LTE Band 40 Subset 1 64QAM 5MHz CH-Middle



LTE Band 40 Subset 1 64QAM 5MHz CH-High

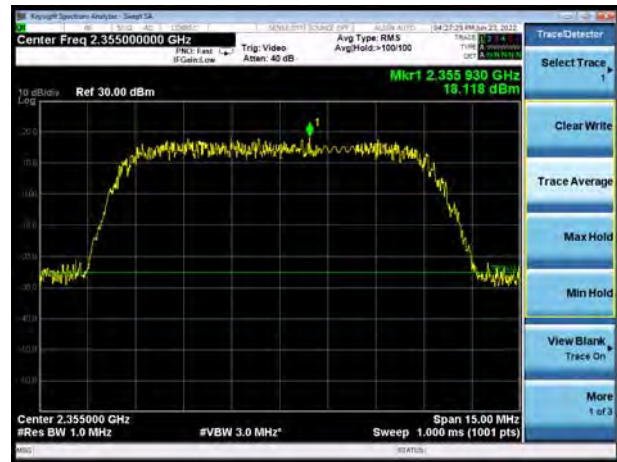


Power Spectral Density (dBm/1MHz)

LTE Band 40 Subset 2 QPSK 5MHz CH-Low



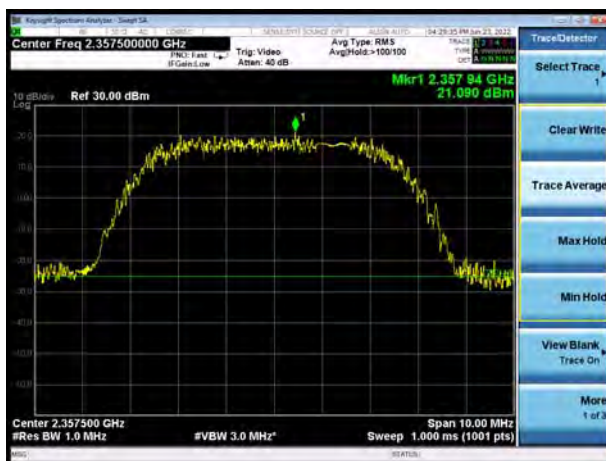
LTE Band 40 Subset 2 QPSK 10MHz



LTE Band 40 Subset 2 QPSK 5MHz CH-Middle

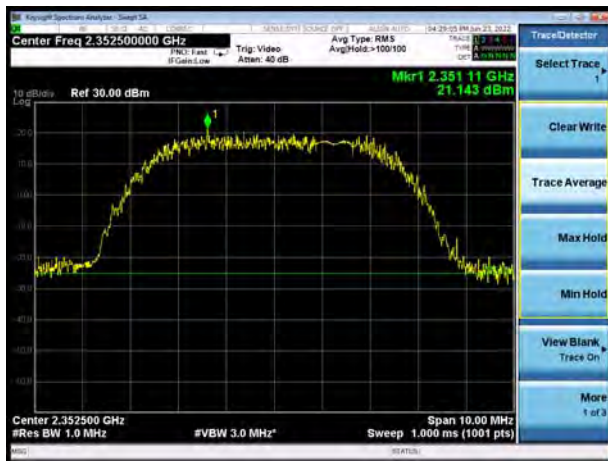


LTE Band 40 Subset 2 QPSK 5MHz CH-High





LTE Band 40 Subset 2 16QAM 5MHz CH-Low



LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle

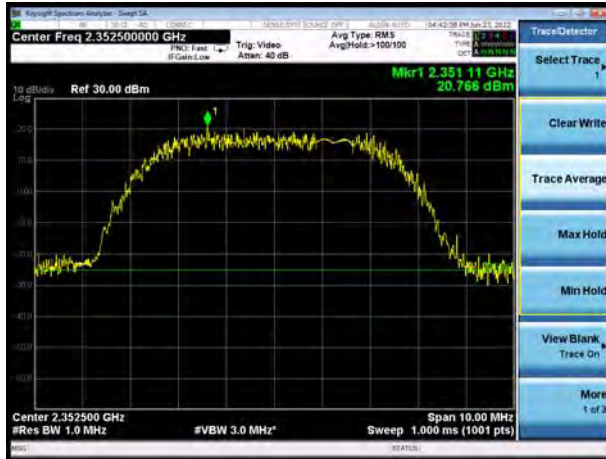


LTE Band 40 Subset 2 16QAM 5MHz CH-High

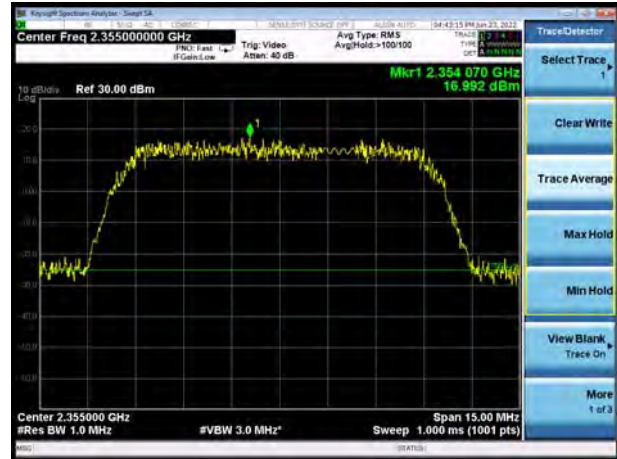




LTE Band 40 Subset 2 64QAM 5MHz CH-Low



LTE Band 40 Subset 2 64QAM 10MHz



LTE Band 40 Subset 2 64QAM 5MHz CH-Middle



LTE Band 40 Subset 2 64QAM 5MHz CH-High





Power Spectral Density (dBm/5MHz)

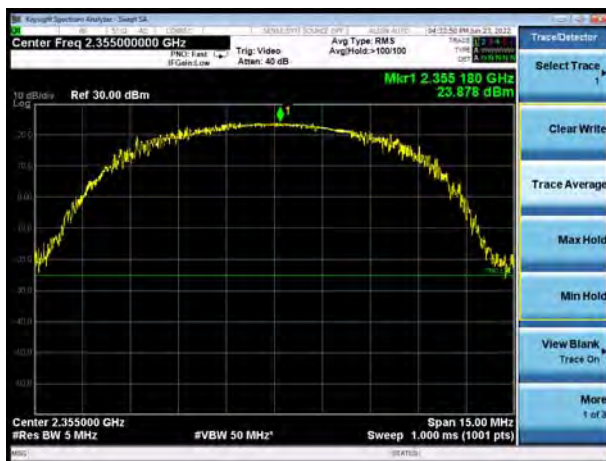
LTE Band 40 Subset 2 QPSK 5MHz CH-Low



LTE Band 40 Subset 2 QPSK 10MHz



LTE Band 40 Subset 2 QPSK 5MHz CH-Middle



LTE Band 40 Subset 2 QPSK 5MHz CH-High





LTE Band 40 Subset 2 16QAM 5MHz CH-Low



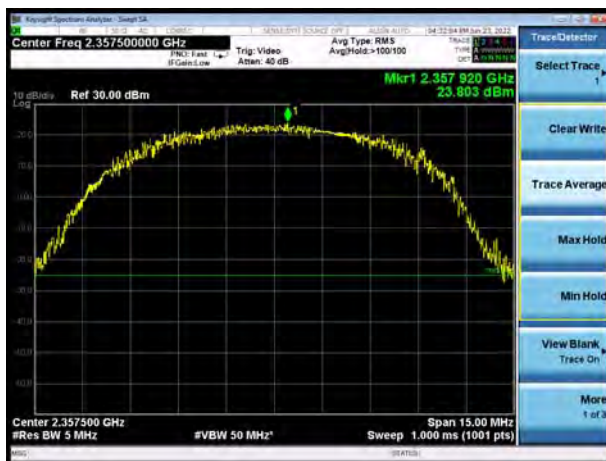
LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle

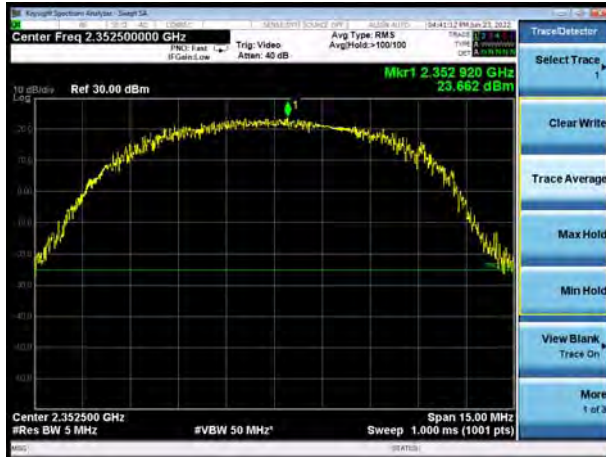


LTE Band 40 Subset 2 16QAM 5MHz CH-High





LTE Band 40 Subset 2 64QAM 5MHz CH-Low



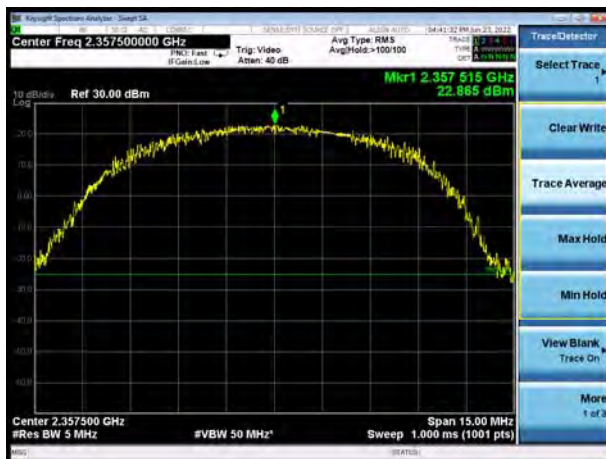
LTE Band 40 Subset 2 64QAM 10MHz



LTE Band 40 Subset 2 64QAM 5MHz CH-Middle



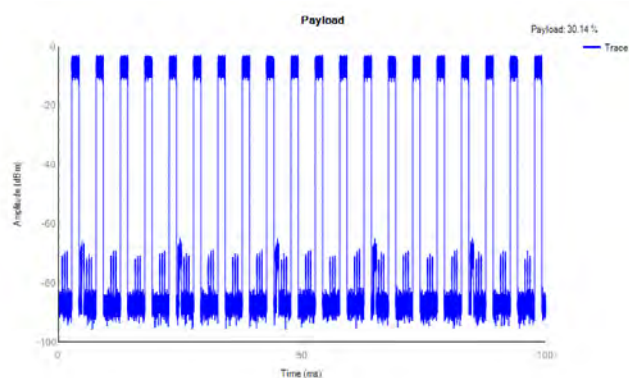
LTE Band 40 Subset 2 64QAM 5MHz CH-High



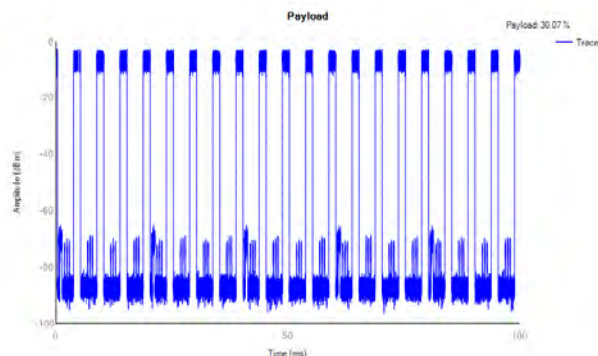
Power Spectral Density and Duty Cycle for NR Band n40

Duty Cycle

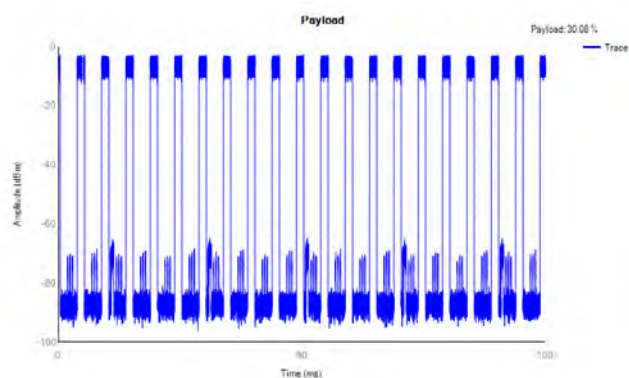
NR Band n40 Subset 1 P1/2 BPSK 10MHz CH- Middle



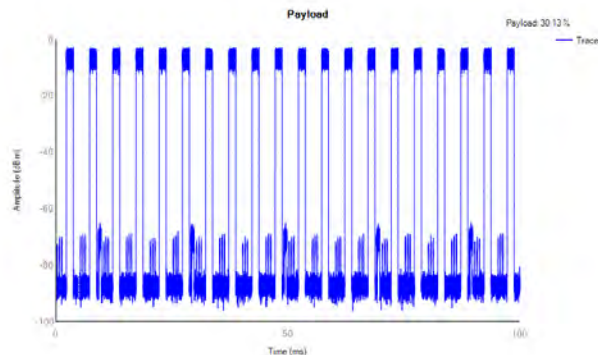
NR Band n40 Subset 1 QPSK 10MHz CH- Middle



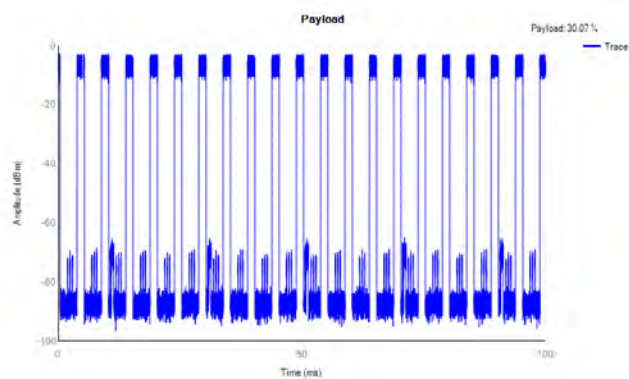
NR Band n40 Subset 1 16QAM 10MHz CH- Middle



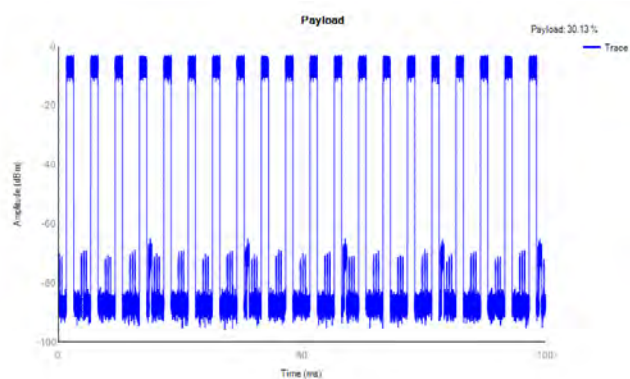
NR Band n40 Subset 1 64QAM 10MHz CH- Middle



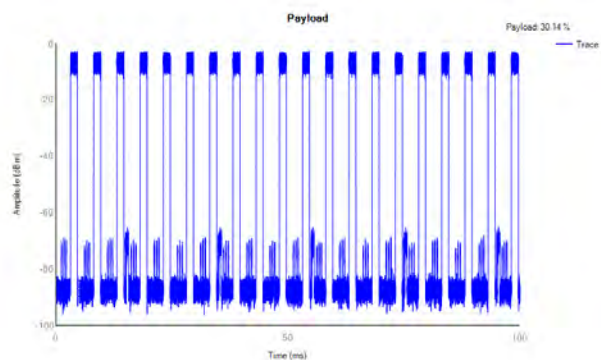
NR Band n40 Subset 1 256 QAM 10MHz CH- Middle



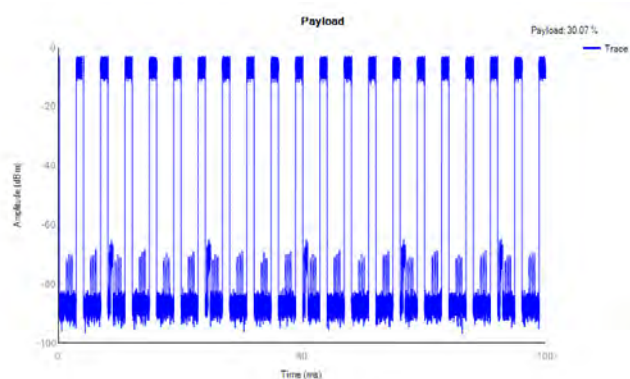
NR Band n40 Subset 2 P1/2 BPSK 10MHz CH- Middle



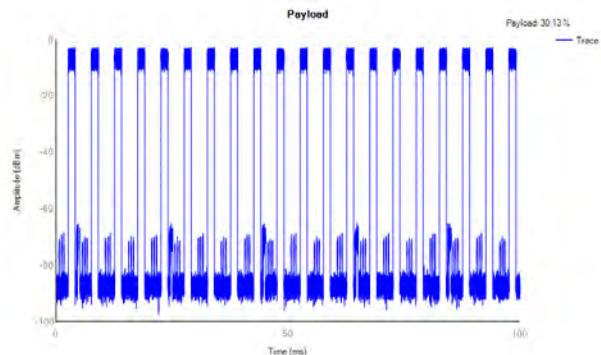
NR Band n40 Subset 2 QPSK 10MHz CH- Middle



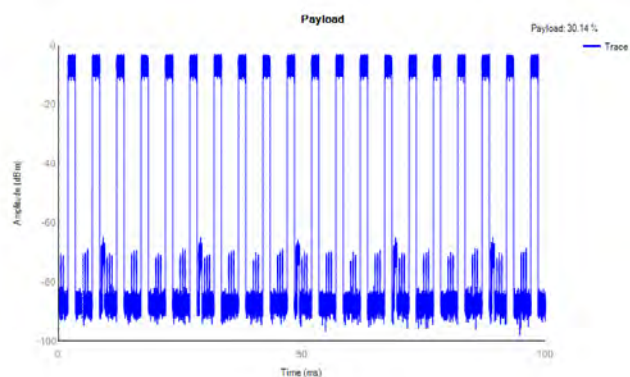
NR Band n40 Subset 2 16QAM 10MHz CH- Middle



NR Band n40 Subset 2 64QAM 10MHz CH- Middle



NR Band n40 Subset 2 256 QAM 10MHz CH- Middle





NR Band n40 Subset 1				Conducted Power Spectral Density(dBm)/1MHz			EIRP Power Spectral Density(dBm)/1MHz			EIRP Power Spectral Density(mW)/1MHz			Limit (mW /1MHz)
BW	Mddulation	RB size	RB offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)			
				/	462000/2310	/	/	462000/2310	/	/	462000/2310	/	
10MHz	BPSK	24	0	/	18.733	/	/	16.033	/	/	40.114	/	250
	QPSK	24	0	/	18.969	/	/	16.269	/	/	42.355	/	250
	16QAM	24	0	/	17.54	/	/	14.840	/	/	30.479	/	250
	64QAM	24	0	/	16.787	/	/	14.087	/	/	25.627	/	250
	256QAM	24	0	/	17.121	/	/	14.421	/	/	27.676	/	250

NR Band n40 Subset 1 Antenna 2				Conducted Power Spectral Density(dBm)/5MHz			EIRP Power Spectral Density(dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /5MHz)
BW	Mddulation	RB size	RB offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)			
				/	462000/ 2310	/	/	462000/ 2310	/	/	462000/ 2310	/	
10MHz	BPSK	24	0	/	21.488	/	/	18.788	/	/	75.648	/	250
	QPSK	24	0	/	21.028	/	/	18.328	/	/	68.046	/	250
	16QAM	24	0	/	20.775	/	/	18.075	/	/	64.195	/	250
	64QAM	24	0	/	19.814	/	/	17.114	/	/	51.452	/	250
	256QAM	24	0	/	19.106	/	/	16.406	/	/	43.712	/	250



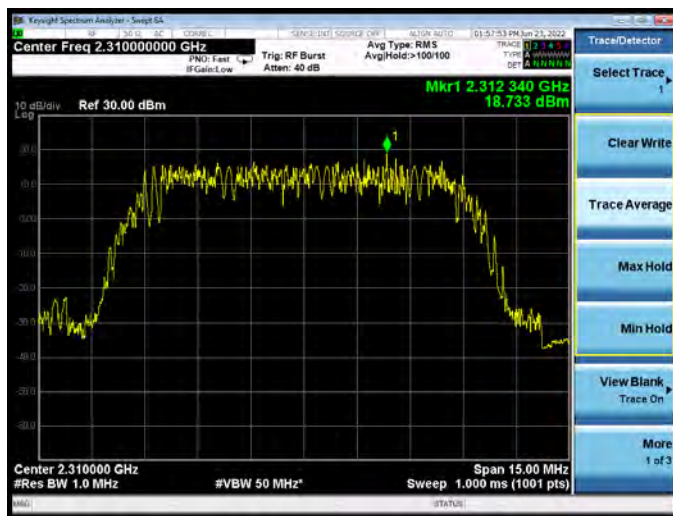
NR Band n40 Subset 2 Antenna 2				Conducted Power Spectral Density(dBm)/1MHz			EIRP Power Spectral Density(dBm)/1MHz			EIRP Power Spectral Density(mW)/1MHz			Limit (mW /1MHz)
BW	Mddulation	RB size	RB offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)			
				/	518598/ 2593	/	/	518598/ 2593	/	/	518598/ 2593	/	
10MHz	BPSK	24	0	/	18.972	/	/	16.272	/	/	42.384	/	250
	QPSK	24	0	/	18.925	/	/	16.225	/	/	41.928	/	250
	16QAM	24	0	/	17.865	/	/	15.165	/	/	32.847	/	250
	64QAM	24	0	/	16.406	/	/	13.706	/	/	23.475	/	250
	256QAM	24	0	/	16.194	/	/	13.494	/	/	22.356	/	250

NR Band n40 Subset 2 Antenna 2				Conducted Power Spectral Density(dBm)/5MHz			EIRP Power Spectral Density(dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /5MHz)
BW	Mddulation	RB size	RB offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)			Channel/Frequency(MHz)			
				L	M	H	L	M	H	L	M	H	
10MHz	BPSK	24	0	/	21.978	/	/	19.278	/	/	84.684	/	250
	QPSK	24	0	/	21.897	/	/	19.197	/	/	83.119	/	250
	16QAM	24	0	/	21.628	/	/	18.928	/	/	78.127	/	250
	64QAM	24	0	/	20.766	/	/	18.066	/	/	64.062	/	250
	256QAM	24	0	/	19.618	/	/	16.918	/	/	49.181	/	250



Power Spectral Density (dBm/1MHz)

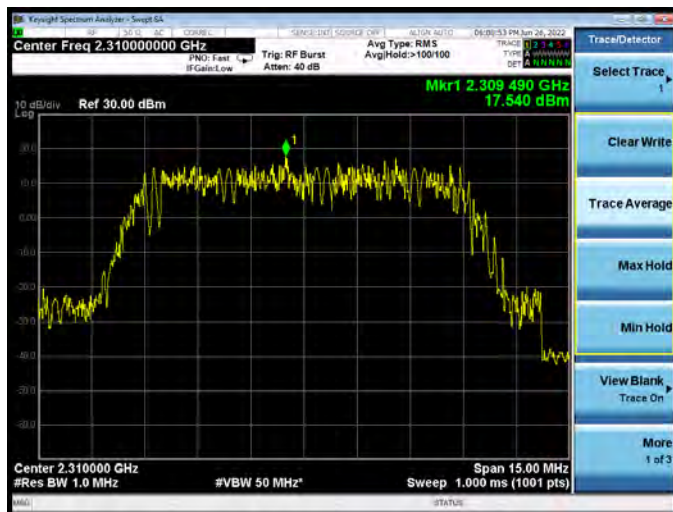
NR Band n40 Subset 1 P1/2 BPSK 10MHz CH- Middle



NR Band n40 Subset 1 QPSK 10MHz CH- Middle



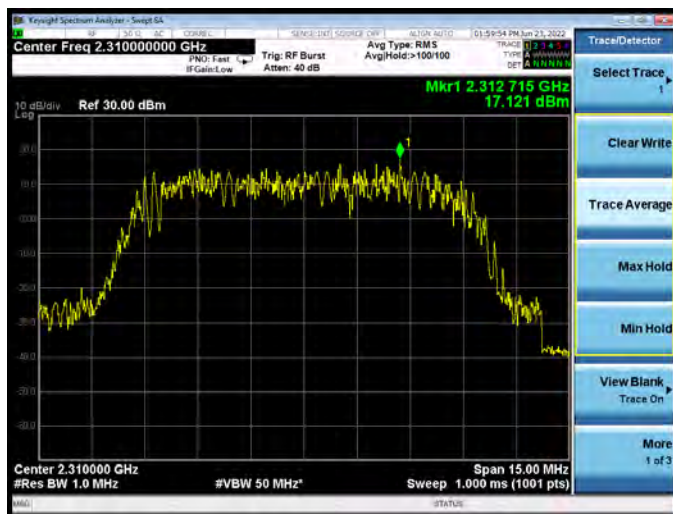
NR Band n40 Subset 1 16QAM 10MHz CH- Middle



NR Band n40 Subset 1 64QAM 10MHz CH- Middle

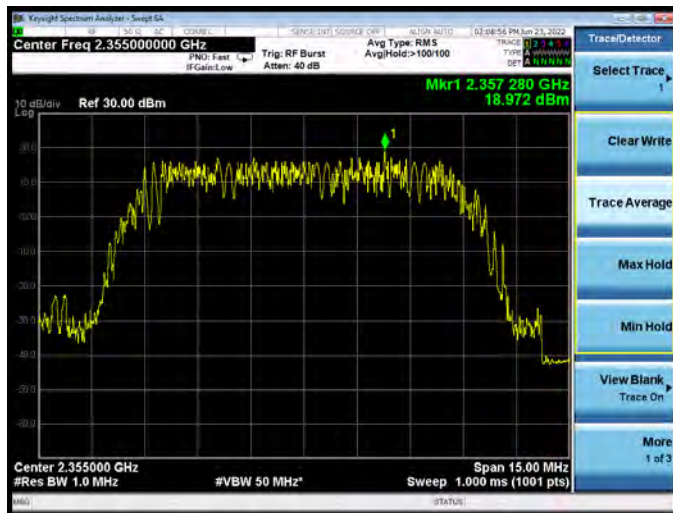


NR Band n40 Subset 1 256 QAM 10MHz CH- Middle





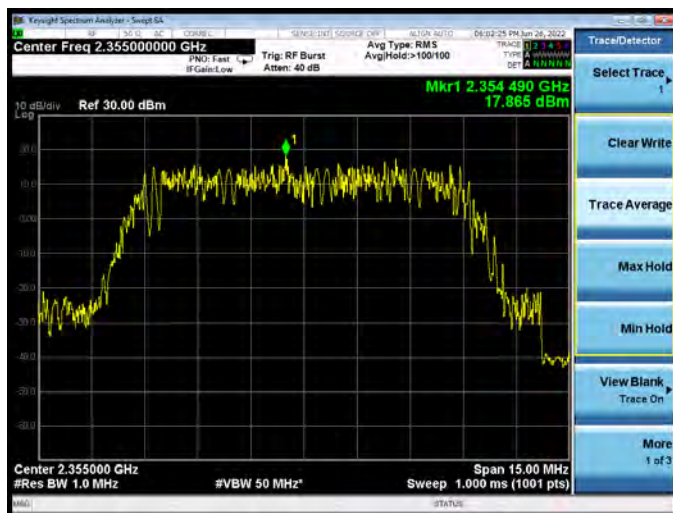
NR Band n40 Subset 2 P1/2 BPSK 10MHz CH- Middle



NR Band n40 Subset 2 QPSK 10MHz CH- Middle



NR Band n40 Subset 2 16QAM 10MHz CH- Middle



NR Band n40 Subset 2 64QAM 10MHz CH- Middle



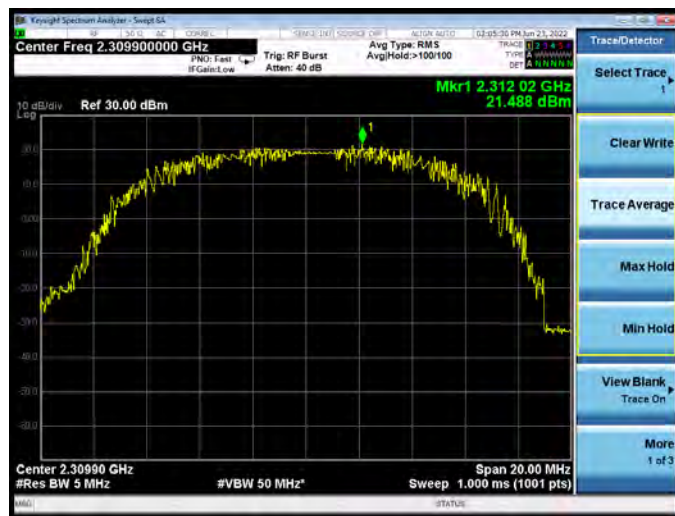
NR Band n40 Subset 2 256 QAM 10MHz CH- Middle





Power Spectral Density (dBm/5MHz)

NR Band n40 Subset 1 P1/2 BPSK 10MHz CH- Middle



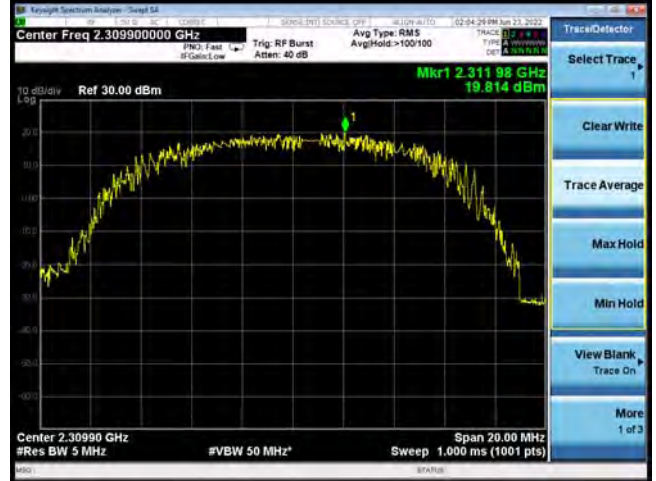
NR Band n40 Subset 1 QPSK 10MHz CH- Middle



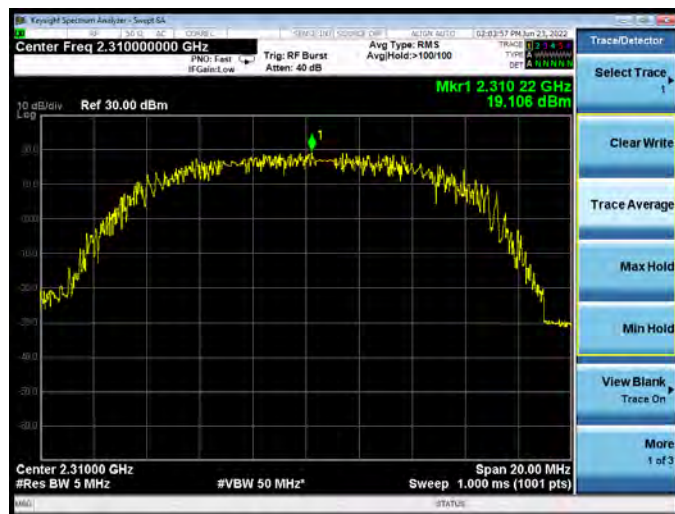
NR Band n40 Subset 1 16QAM 10MHz CH- Middle



NR Band n40 Subset 1 64QAM 10MHz CH- Middle

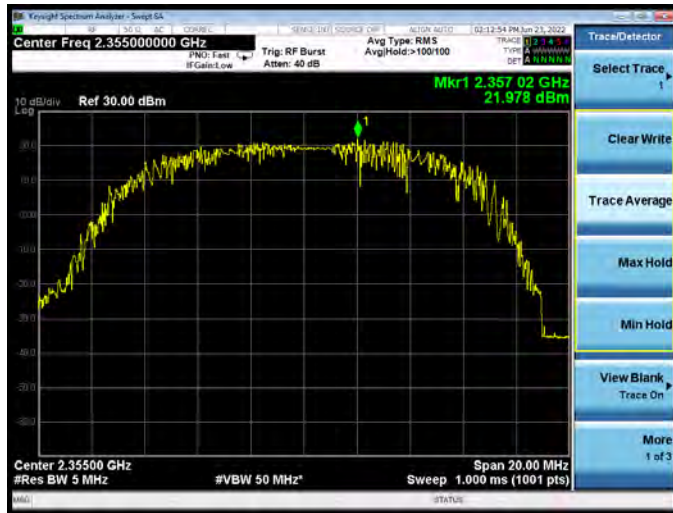


NR Band n40 Subset 1 256 QAM 10MHz CH- Middle

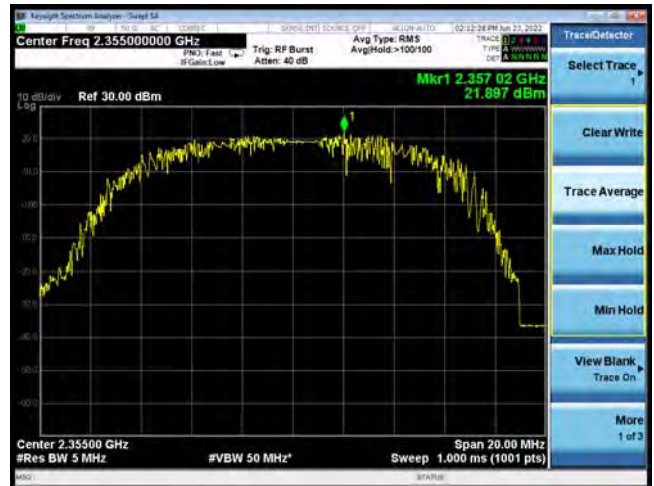




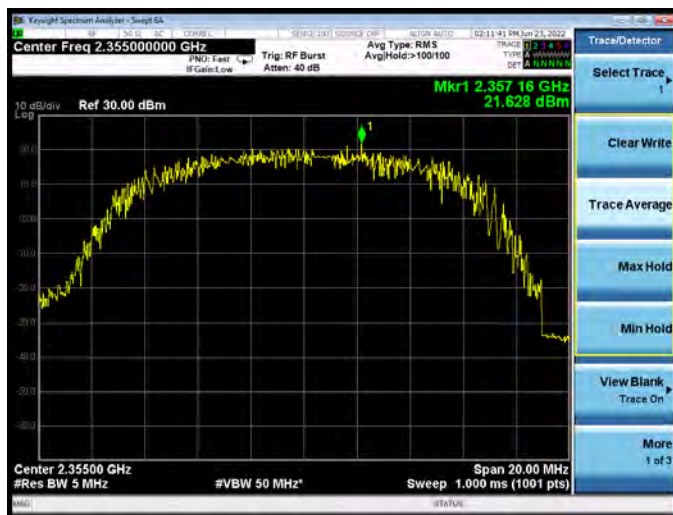
NR Band n40 Subset 2 P1/2 BPSK 10MHz CH- Middle



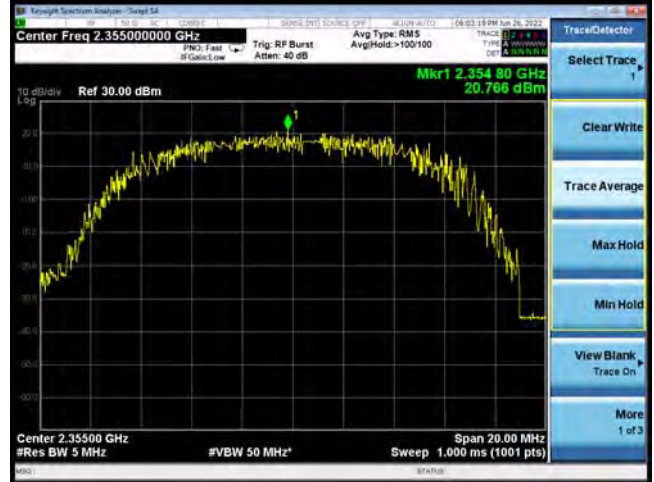
NR Band n40 Subset 2 QPSK 10MHz CH- Middle



NR Band n40 Subset 2 16QAM 10MHz CH- Middle



NR Band n40 Subset 2 64QAM 10MHz CH- Middle



NR Band n40 Subset 2 256 QAM 10MHz CH- Middle



6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.135	4.642
	1413	1732.6	4.143	4.634
	1513	1752.6	4.155	4.683

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.097	1.297
			20175	1732.5	1.090	1.282
			20393	1754.3	1.095	1.292
		3	19965	1711.5	2.691	2.966
			20175	1732.5	2.695	2.940
			20385	1753.5	2.691	2.939
		5	19975	1712.5	4.501	4.892
			20175	1732.5	4.491	4.873
			20375	1752.5	4.502	4.953
		10	20000	1715	8.991	9.734
			20175	1732.5	8.973	9.701
			20350	1750	8.984	9.763
		15	20025	1717.5	13.489	14.555
			20175	1732.5	13.437	14.578
			20325	1747.5	13.449	14.544
		20	20050	1720	17.976	19.265
			20175	1732.5	17.889	19.268
			20300	1745	17.978	19.425
	16QAM	1.4	19957	1710.7	1.093	1.282
			20175	1732.5	1.099	1.313
			20393	1754.3	1.089	1.283
		3	19965	1711.5	2.696	2.941
			20175	1732.5	2.696	2.945
			20385	1753.5	2.690	2.932
		5	19975	1712.5	4.505	4.960
			20175	1732.5	4.506	4.972
			20375	1752.5	4.498	4.868
		10	20000	1715	8.988	9.751



			20175	1732.5	8.972	9.694
			20350	1750	8.971	9.799
		15	20025	1717.5	13.502	14.601
			20175	1732.5	13.464	14.637
			20325	1747.5	13.479	14.476
		20	20050	1720	17.915	19.233
			20175	1732.5	17.923	19.434
			20300	1745	17.931	19.444
	64QAM	1.4	19957	1710.7	1.094	1.307
			20175	1732.5	1.099	1.281
			20393	1754.3	1.090	1.268
		3	19965	1711.5	2.685	2.911
			20175	1732.5	2.686	2.910
			20385	1753.5	2.700	2.922
		5	19975	1712.5	4.516	4.960
			20175	1732.5	4.498	4.964
			20375	1752.5	4.507	4.901
		10	20000	1715	8.975	9.697
			20175	1732.5	8.970	9.710
			20350	1750	9.000	9.692
		15	20025	1717.5	13.468	14.497
			20175	1732.5	13.480	14.469
			20325	1747.5	13.489	14.542
		20	20050	1720	17.955	19.152
			20175	1732.5	17.958	19.371
			20300	1745	17.972	19.270

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.507	4.916
			21100	2535	4.516	4.962
			21425	2567.5	4.506	4.949
		10	20800	2505	9.020	9.719
			21100	2535	8.996	9.750
			21400	2565	8.972	9.846
		15	20825	2507.5	13.480	14.494
			21100	2535	13.478	14.473
			21375	2562.5	13.447	14.480
		20	20850	2510	17.922	19.274



			21100	2535	17.927	19.586
			21350	2560	17.969	19.293
	16QAM	5	20775	2502.5	4.509	4.957
			21100	2535	4.507	4.972
			21425	2567.5	4.511	4.890
		10	20800	2505	8.970	9.627
			21100	2535	8.975	9.714
			21400	2565	8.991	9.662
		15	20825	2507.5	13.482	14.576
			21100	2535	13.452	14.469
			21375	2562.5	13.439	14.388
		20	20850	2510	17.944	19.308
			21100	2535	17.943	19.190
			21350	2560	18.035	19.066
	64QAM	5	20775	2502.5	4.500	4.942
			21100	2535	4.496	4.957
			21425	2567.5	4.508	5.023
		10	20800	2505	8.993	9.698
			21100	2535	8.974	9.715
			21400	2565	8.987	9.798
		15	20825	2507.5	13.479	14.538
			21100	2535	13.482	14.495
			21375	2562.5	13.453	14.560
		20	20850	2510	17.955	19.142
			21100	2535	17.962	19.451
			21350	2560	17.935	19.294

LTE Band 12						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	23017	699.7	1.096	1.277
			23095	707.5	1.096	1.290
			23173	715.3	1.102	1.302
		3	23025	700.5	2.696	2.948
			23095	707.5	2.699	2.968
			23165	714.5	2.703	2.926
		5	23035	701.5	4.520	4.935
			23095	707.5	4.518	4.926
			23155	713.5	4.502	4.949
		10	23060	704	9.053	9.715



			23095	707.5	8.967	9.720
			23130	711	8.955	9.676
	16QAM	1.4	23017	699.7	1.100	1.271
			23095	707.5	1.100	1.319
			23173	715.3	1.090	1.282
		3	23025	700.5	2.689	2.936
			23095	707.5	2.691	2.928
			23165	714.5	2.694	2.969
		5	23035	701.5	4.499	4.984
			23095	707.5	4.503	4.943
			23155	713.5	4.507	5.014
		10	23060	704	9.025	9.784
			23095	707.5	8.976	9.621
			23130	711	8.950	9.581
	64QAM	1.4	23017	699.7	1.098	1.288
			23095	707.5	1.099	1.315
			23173	715.3	1.096	1.288
		3	23025	700.5	2.697	2.927
			23095	707.5	2.699	2.949
			23165	714.5	2.694	2.950
		5	23035	701.5	4.504	4.921
			23095	707.5	4.501	4.956
			23155	713.5	4.511	4.912
		10	23060	704	9.030	9.808
			23095	707.5	8.968	9.687
			23130	711	8.967	9.702

LTE Band 13						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	23205	779.5	4.508	4.939
			23230	782	4.517	4.892
			23255	784.5	4.507	4.959
		10	23230	782	9.009	9.813
	16QAM	5	23205	779.5	4.500	4.901
			23230	782	4.506	4.916
			23255	784.5	4.519	4.991
		10	23230	782	8.976	9.641
	64QAM	5	23205	779.5	4.500	4.945
			23230	782	4.504	4.891



			23255	784.5	4.506	4.923
		10	23230	782	8.994	9.570

LTE Band 17						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	23755	706.5	4.516	4.927
			23790	710	4.494	4.969
			23825	713.5	4.526	4.887
		10	23780	709	8.963	9.690
			23790	710	8.963	9.698
			23800	711	8.940	9.702
	16QAM	5	23755	706.5	4.518	4.980
			23790	710	4.497	4.890
			23825	713.5	4.537	4.937
		10	23780	709	8.940	9.659
			23790	710	8.932	9.594
			23800	711	8.955	9.665
	64QAM	5	23755	706.5	4.507	4.930
			23790	710	4.492	4.885
			23825	713.5	4.542	4.989
		10	23780	709	8.953	9.700
			23790	710	8.956	9.616
			23800	711	8.972	9.608

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.506	5.051
			38000	2595	4.507	4.970
			38225	2617.5	4.526	5.227
		10	37800	2575	9.003	9.583
			38000	2595	9.003	10.286
			38200	2615	8.992	9.957
		15	37825	2577.5	13.465	14.357
			38000	2595	13.468	15.080
			38175	2612.5	13.487	15.123
		20	37850	2580	17.961	19.875
			38000	2595	17.959	19.279
			38150	2610	17.926	19.078



	16QAM	5	37775	2572.5	4.500	4.950
			38000	2595	4.516	4.896
			38225	2617.5	4.502	4.872
		10	37800	2575	8.995	9.586
			38000	2595	8.997	9.725
			38200	2615	8.999	10.034
		15	37825	2577.5	13.450	15.552
			38000	2595	13.446	14.424
			38175	2612.5	13.487	14.648
		20	37850	2580	17.914	19.090
			38000	2595	17.936	19.588
			38150	2610	17.919	19.279
	64QAM	5	37775	2572.5	4.504	4.804
			38000	2595	4.516	4.937
			38225	2617.5	4.490	4.992
		10	37800	2575	8.994	9.733
			38000	2595	8.999	9.795
			38200	2615	8.952	9.580
		15	37825	2577.5	13.488	15.366
			38000	2595	13.502	14.499
			38175	2612.5	13.494	15.048
		20	37850	2580	17.922	20.293
			38000	2595	17.906	20.189
			38150	2610	18.029	20.978

LTE Band 40 Subset 1						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	38725	2307.5	4.495	4.979
			38750	2310	4.504	5.170
			38775	2312.5	4.503	4.951
		10	38750	2310	8.982	9.598
	16QAM	5	38725	2307.5	4.502	4.865
			38750	2310	4.514	4.931
			38775	2312.5	4.503	4.968
		10	38750	2310	8.972	9.570
	64QAM	5	38725	2307.5	4.502	4.890
			38750	2310	4.494	4.880
			38775	2312.5	4.513	4.853



		10	38750	2310	9.002	9.592
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LTE Band 40 Subset 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	39175	2352.5	4.497	4.898
			39200	2355	4.519	5.151
			39225	2357.5	4.499	5.314
		10	39200	2355	8.994	9.714
	16QAM	5	39175	2352.5	4.514	4.965
			39200	2355	4.495	4.918
			39225	2357.5	4.521	4.940
		10	39200	2355	8.968	9.851
	64QAM	5	39175	2352.5	4.510	4.917
			39200	2355	4.508	4.888
			39225	2357.5	4.503	4.937
		10	39200	2355	8.999	9.771

LTE Band 66						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	131979	1710.7	1.091	1.279
			132322	1745	1.094	1.286
			132665	1779.3	1.098	1.325
		3	131987	1711.5	2.699	2.951
			132322	1745	2.684	2.925
			132657	1778.5	2.698	2.931
		5	131997	1712.5	4.517	5.024
			132322	1745	4.517	4.912
			132647	1777.5	4.503	4.954
		10	132022	1715	8.962	9.759
			132322	1745	8.994	9.694
			132622	1775	8.985	9.791
		15	132047	1717.5	13.467	14.598
			132322	1745	13.490	14.574
			132597	1772.5	13.472	14.495
		20	132072	1720	17.980	19.332
			132322	1745	17.955	19.403
			132572	1770	17.917	19.433
	16QAM	1.4	131979	1710.7	1.096	1.293



			132322	1745	1.098	1.317
			132665	1779.3	1.091	1.290
		3	131987	1711.5	2.684	2.941
			132322	1745	2.684	2.927
			132657	1778.5	2.700	2.948
		5	131997	1712.5	4.505	4.919
			132322	1745	4.505	4.958
			132647	1777.5	4.511	4.964
		10	132022	1715	8.987	9.769
			132322	1745	9.005	9.697
			132622	1775	8.979	9.825
		15	132047	1717.5	13.452	14.439
			132322	1745	13.432	14.640
			132597	1772.5	13.453	14.562
		20	132072	1720	17.949	19.289
			132322	1745	17.931	19.436
			132572	1770	17.956	19.187
	64QAM	1.4	131979	1710.7	1.097	1.280
			132322	1745	1.099	1.290
			132665	1779.3	1.086	1.268
		3	131987	1711.5	2.696	2.929
			132322	1745	2.694	2.944
			132657	1778.5	2.686	2.935
		5	131997	1712.5	4.507	4.963
			132322	1745	4.500	4.941
			132647	1777.5	4.519	4.880
		10	132022	1715	9.015	9.730
			132322	1745	8.988	9.774
			132622	1775	8.972	9.744
		15	132047	1717.5	13.514	14.572
			132322	1745	13.490	14.520
			132597	1772.5	13.462	14.517
		20	132072	1720	17.986	19.395
			132322	1745	17.965	19.328
			132572	1770	17.937	19.134



CA_7C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)			99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
CA_7C_10MHz+20MHz_QPSK	21006	2525.6	21150	2540	50#0	100#0	28.14	30.12
CA_7C_10MHz+20MHz_16QAM	21006	2525.6	21150	2540	50#0	100#0	28.11	30.03
CA_7C_10MHz+20MHz_64QAM	21006	2525.6	21150	2540	50#0	100#0	28.08	20.16
CA_7C_20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	100#0	50#0	28.14	30.32
CA_7C_20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	100#0	50#0	28.21	30.17
CA_7C_20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	100#0	50#0	28.22	30.22
CA_7C_15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	75#0	75#0	28.76	30.84
CA_7C_15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.72	30.81
CA_7C_15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.73	30.69
CA_7C_15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	75#0	100#0	32.95	35.12
CA_7C_15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.93	35.05
CA_7C_15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.95	35.21
CA_7C_20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	100#0	75#0	33.03	35.39
CA_7C_20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	100#0	75#0	33.02	35.30
CA_7C_20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	100#0	75#0	32.99	35.22
CA_7C_20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	100#0	100#0	37.85	40.24
CA_7C_20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.81	40.12
CA_7C_20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.85	40.16

NR n7						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	20	502000	2510	18.35	20.47
			507000	2535	18.42	21.39
			512000	2560	18.33	20.68
	QPSK	20	502000	2510	18.38	20.32
			507000	2535	18.41	20.18
			512000	2560	18.35	20.40
	16QAM	20	502000	2510	18.35	21.57
			507000	2535	18.37	21.32
			512000	2560	18.35	20.30
	64QAM	20	502000	2510	18.26	20.21
			507000	2535	18.39	20.21
			512000	2560	18.33	20.28
	256QAM	20	502000	2510	18.32	21.28
			507000	2535	18.35	21.10
			512000	2560	18.37	20.80
1	BPSK	20	502000	2510	1.47	1.93



			507000	2535	1.30	1.81
			512000	2560	1.35	1.81
	QPSK	20	502000	2510	1.52	2.18
			507000	2535	1.24	1.70
			512000	2560	1.38	1.92
	16QAM	20	502000	2510	1.25	1.58
			507000	2535	1.20	1.59
			512000	2560	1.38	1.82
	64QAM	20	502000	2510	1.27	1.67
			507000	2535	1.21	1.50
			512000	2560	1.17	1.68
	256QAM	20	502000	2510	1.23	1.74
			507000	2535	1.18	1.46
			512000	2560	1.27	1.68

DC_28A (Subset 1)-n7A						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc
		(MHz)			Bandwidth(MHz)	Bandwidth(MHz)
100%	BPSK	20	502000	2510	18.38	20.37
			507000	2535	18.36	20.83
			512000	2560	18.35	20.14
	QPSK	20	502000	2510	18.38	20.11
			507000	2535	18.32	20.64
			512000	2560	18.37	20.23
	16QAM	20	502000	2510	18.36	21.31
			507000	2535	18.35	20.26
			512000	2560	18.34	20.40
	64QAM	20	502000	2510	18.40	20.20
			507000	2535	18.30	20.14
			512000	2560	18.40	20.15
1%	BPSK	20	502000	2510	18.35	21.04
			507000	2535	18.38	20.21
			512000	2560	18.34	20.18
	QPSK	20	502000	2510	18.38	20.37
			507000	2535	18.36	20.83
			512000	2560	18.35	20.14
	16QAM	20	502000	2510	18.38	20.11
			507000	2535	18.32	20.64
			512000	2560	18.37	20.23
	64QAM	20	502000	2510	18.36	21.31
			507000	2535	18.35	20.26
			512000	2560	18.34	20.40



	256QAM	20	507000	2535	18.30	20.14
			512000	2560	18.40	20.15
			502000	2510	18.35	21.04
			507000	2535	18.38	20.21
			512000	2560	18.34	20.18

NR n40 Subset 1						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	10	462000	2310	8.62	9.54
	QPSK	10	462000	2310	8.60	9.41
	16QAM	10	462000	2310	8.62	9.51
	64QAM	10	462000	2310	8.61	9.50
	256QAM	10	462000	2310	8.62	9.64
1%	BPSK	10	462000	2310	0.85	1.37
	QPSK	10	462000	2310	0.77	1.15
	16QAM	10	462000	2310	0.92	1.30
	64QAM	10	462000	2310	0.91	1.35
	256QAM	10	462000	2310	0.95	1.35

NR n40 Subset 2						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	10	471000	2355	8.62	9.50
	QPSK	10	471000	2355	8.62	9.55
	16QAM	10	471000	2355	8.63	9.57
	64QAM	10	471000	2355	8.60	9.65
	256QAM	10	471000	2355	8.59	9.54
1%	BPSK	10	471000	2355	0.89	1.35
	QPSK	10	471000	2355	0.88	1.30
	16QAM	10	471000	2355	0.74	1.19
	64QAM	10	471000	2355	0.77	1.09
	256QAM	10	471000	2355	0.80	1.26

NR n66						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	BPSK	20	344000	1720	38.720	41.170
			349000	1745	38.867	41.440
			354000	1770	38.777	40.990



1	QPSK	20	344000	1720	38.753	41.290
			349000	1745	38.787	41.160
			354000	1770	38.750	41.300
	16QAM	20	344000	1720	38.734	40.970
			349000	1745	38.822	41.440
			354000	1770	38.807	42.390
	64QAM	20	344000	1720	38.712	41.040
			349000	1745	38.786	41.070
			354000	1770	38.756	41.040
	256QAM	20	344000	1720	38.646	41.000
			349000	1745	38.738	41.360
			354000	1770	38.722	41.140
1	BPSK	20	344000	1720	2.461	3.684
			349000	1745	2.499	3.489
			354000	1770	3.060	3.894
	QPSK	20	344000	1720	2.476	3.315
			349000	1745	2.501	3.290
			354000	1770	2.975	3.731
	16QAM	20	344000	1720	2.021	3.488
			349000	1745	2.658	3.488
			354000	1770	1.837	2.113
	64QAM	20	344000	1720	1.535	1.784
			349000	1745	2.497	3.259
			354000	1770	2.538	3.707
	256QAM	20	344000	1720	2.395	3.464
			349000	1745	1.916	1.792
			354000	1770	1.817	2.871

DC_2A-n66A						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	BPSK	20	346000	1730	38.61	41.34
			349000	1745	38.61	41.06
			352000	1760	38.65	49.63
	QPSK	20	346000	1730	38.62	41.44
			349000	1745	38.89	40.99
			352000	1760	38.76	47.71
	16QAM	20	346000	1730	38.66	40.99
			349000	1745	38.71	41.08
			352000	1760	38.75	43.90
	64QAM	20	346000	1730	38.62	41.07
			349000	1745	38.79	41.09



1	256QAM	20	352000	1760	38.70	40.93
			346000	1730	38.65	41.03
			349000	1745	38.68	41.06
			352000	1760	38.70	41.35
	BPSK	20	346000	1730	2.52	3.38
			349000	1745	1.99	3.37
			352000	1760	3.00	3.81
	QPSK	20	346000	1730	2.74	3.49
			349000	1745	2.43	3.36
			352000	1760	2.98	3.70
	16QAM	20	346000	1730	2.02	2.17
			349000	1745	2.70	3.25
			352000	1760	2.67	3.60
	64QAM	20	346000	1730	2.36	3.65
			349000	1745	2.98	3.71
			352000	1760	1.84	2.96
	256QAM	20	346000	1730	2.48	3.24
			349000	1745	1.76	1.97
			352000	1760	2.73	3.67

NR n78 Subset 1						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc
		(MHz)			Bandwidth(MHz)	Bandwidth(MHz)
100%	BPSK	100	633334	3500	96.17	99.49
	QPSK	100	633334	3500	96.28	99.49
	16QAM	100	633334	3500	96.16	99.42
	64QAM	100	633334	3500	96.27	99.52
	256QAM	100	633334	3500	96.06	99.48
1%	BPSK	100	633334	3500	6.88	8.64
	QPSK	100	633334	3500	6.91	8.42
	16QAM	100	633334	3500	6.98	8.09
	64QAM	100	633334	3500	6.72	7.93
	256QAM	100	633334	3500	6.82	8.18

DC_5A-n78A (Subset 1)						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc
		(MHz)			Bandwidth(MHz)	Bandwidth(MHz)
100%	BPSK	100	633334	3500	96.175	99.530
	QPSK	100	633334	3500	96.450	99.610
	16QAM	100	633334	3500	96.291	99.860
	64QAM	100	633334	3500	96.104	99.640
	256QAM	100	633334	3500	96.063	99.540



1%	BPSK	100	633334	3500	7.332	8.588
	QPSK	100	633334	3500	7.339	8.699
	16QAM	100	633334	3500	6.988	8.484
	64QAM	100	633334	3500	7.069	8.596
	256QAM	100	633334	3500	6.806	8.330



WCDMA Band IV CH-Low



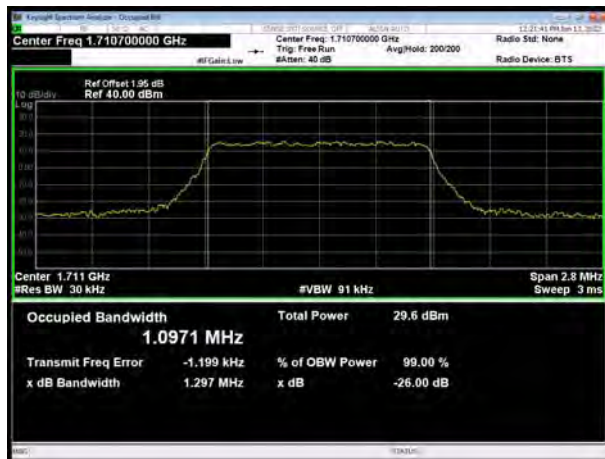
WCDMA Band IV CH Middle



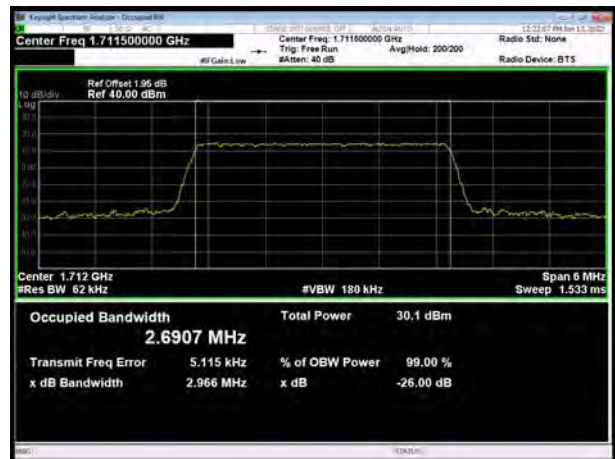
WCDMA Band IV CH High



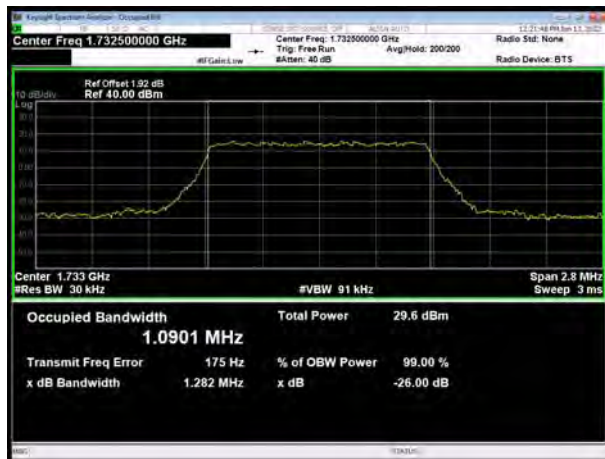
LTE Band 4 QPSK 1.4MHz CH-Low



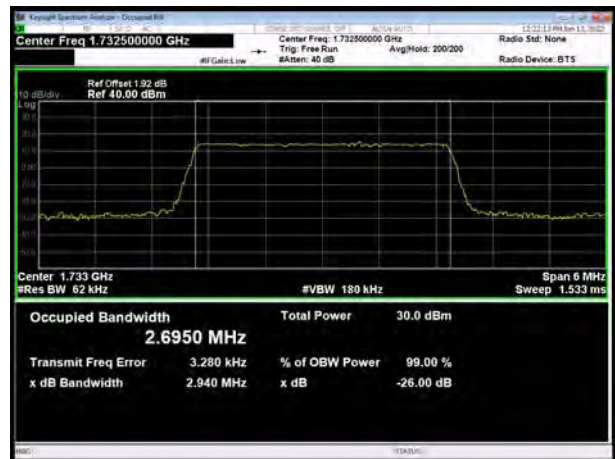
LTE Band 4 QPSK 3MHz CH-Low



LTE Band 4 QPSK 1.4MHz CH-Middle



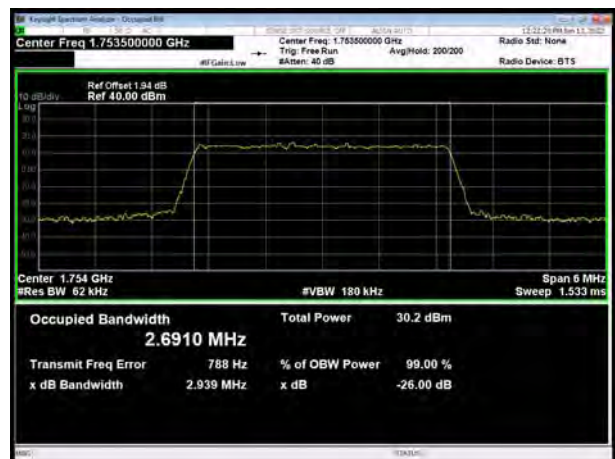
LTE Band 4 QPSK 3MHz CH-Middle



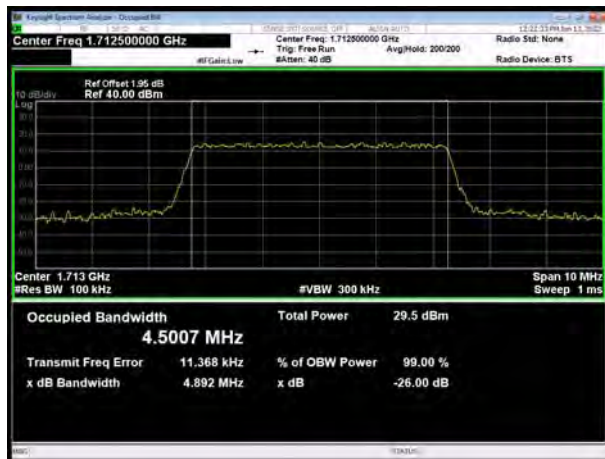
LTE Band 4 QPSK 1.4MHz CH-High



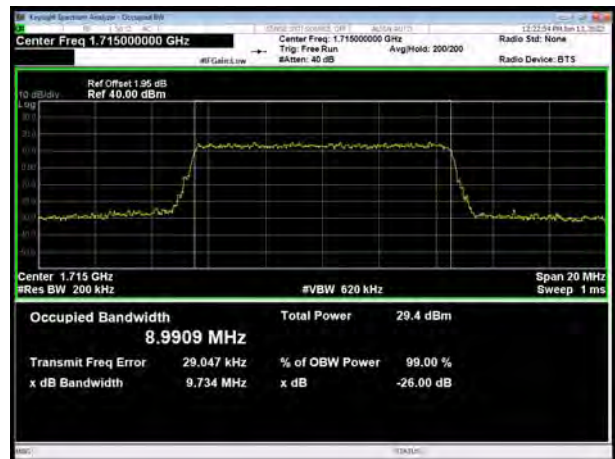
LTE Band 4 QPSK 3MHz CH-High



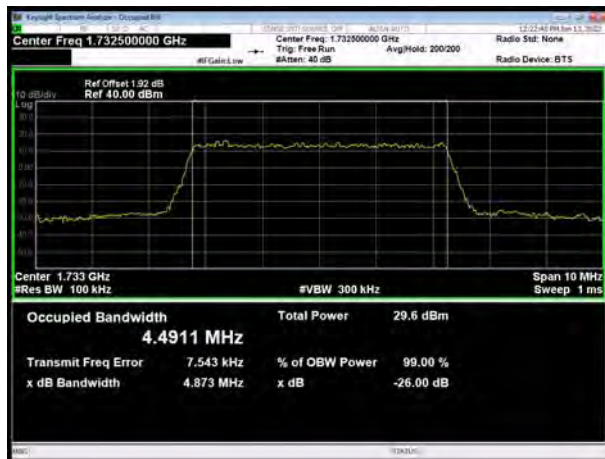
LTE Band 4 QPSK 5MHz CH-Low



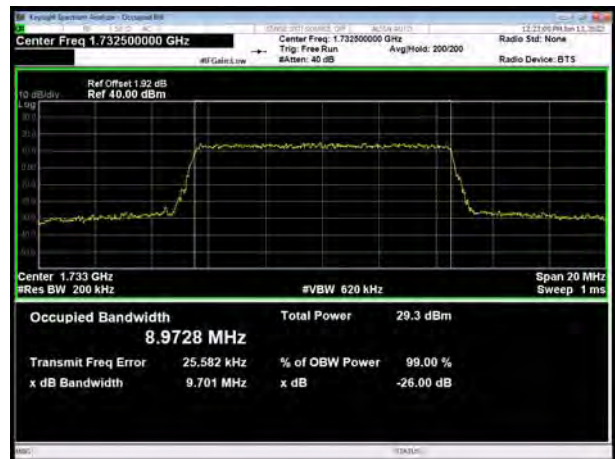
LTE Band 4 QPSK 10MHz CH-Low



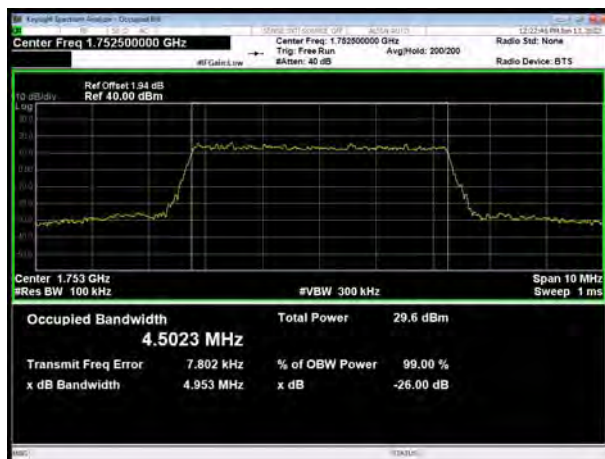
LTE Band 4 QPSK 5MHz CH-Middle



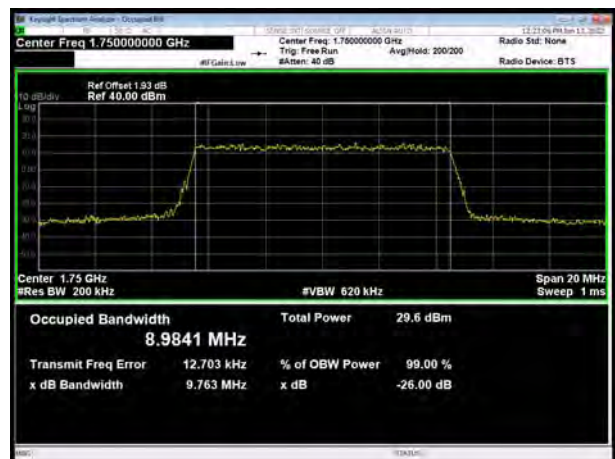
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

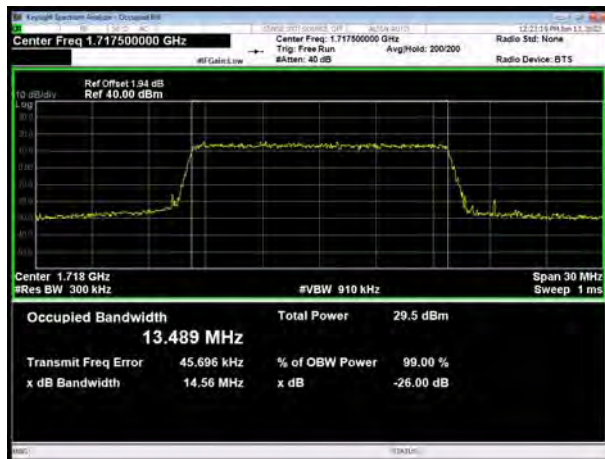


LTE Band 4 QPSK 10MHz CH-High

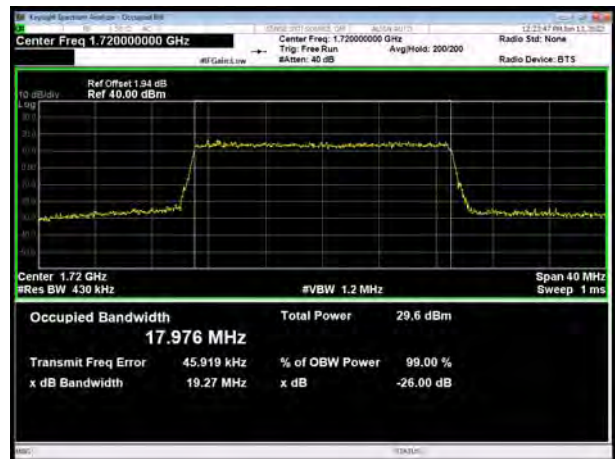




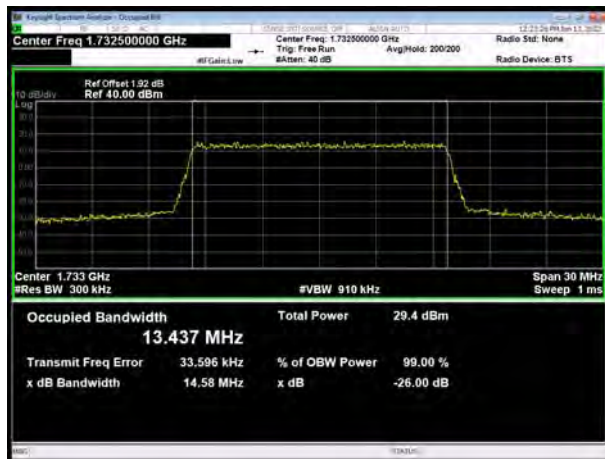
LTE Band 4 QPSK 15MHz CH-Low



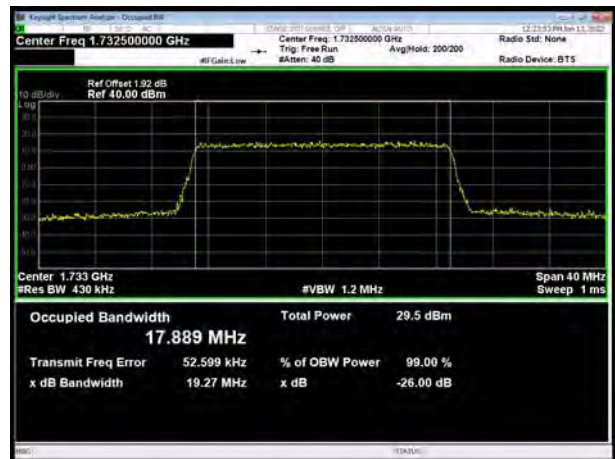
LTE Band 4 QPSK 20MHz CH-Low



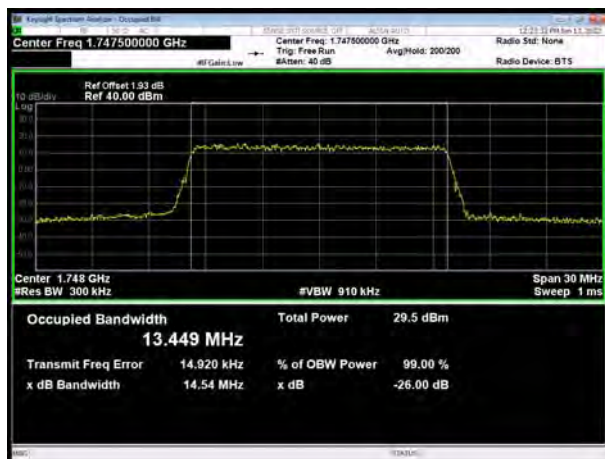
LTE Band 4 QPSK 15MHz CH-Middle



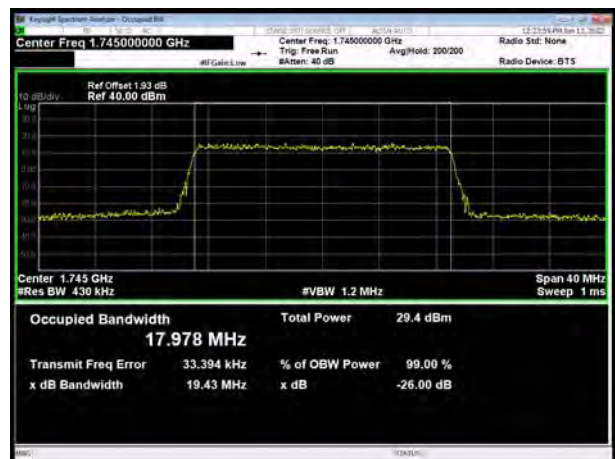
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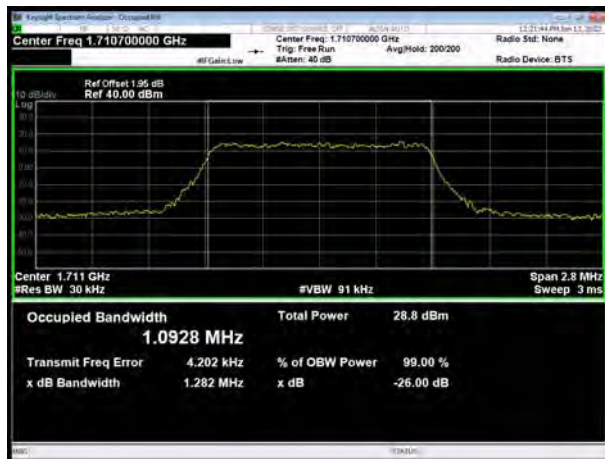
LTE Band 4 QPSK 15MHz CH-High



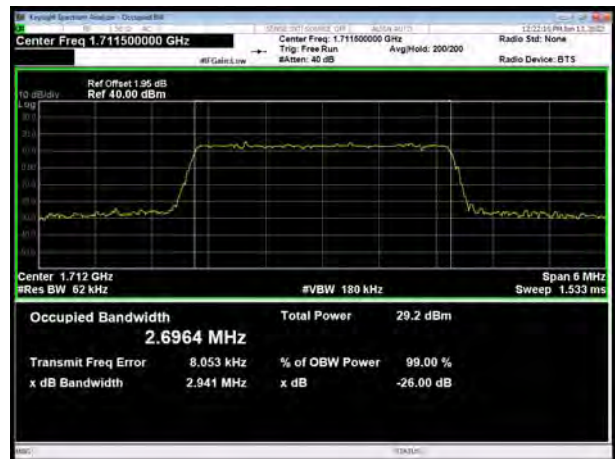
LTE Band 4 QPSK 20MHz CH-High



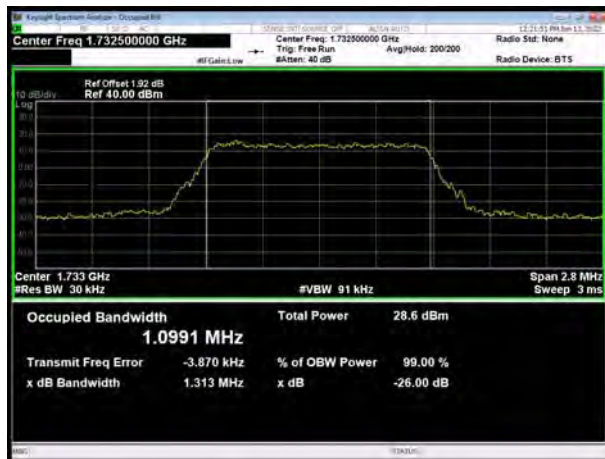
LTE Band 4 16QAM 1.4MHz CH-Low



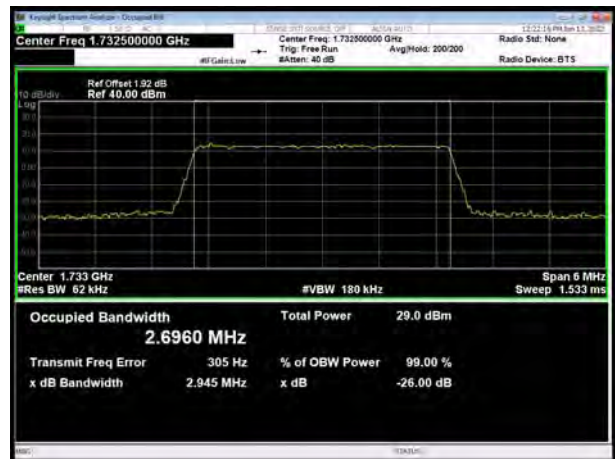
LTE Band 4 16QAM 3MHz CH-Low



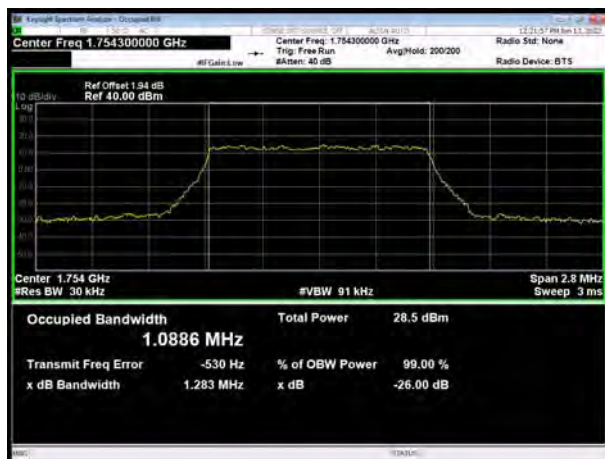
LTE Band 4 16QAM 1.4MHz CH-Middle



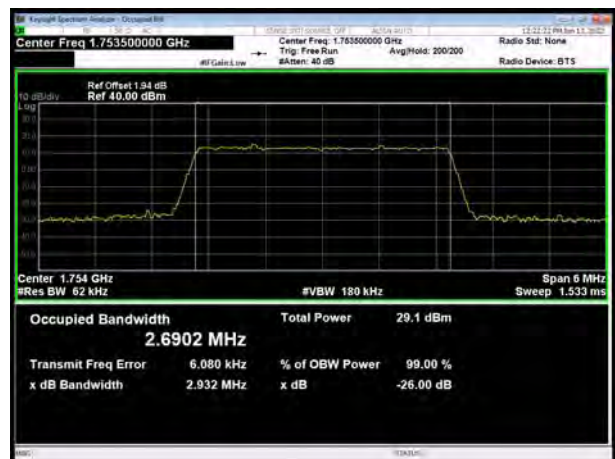
LTE Band 4 16QAM 3MHz CH-Middle



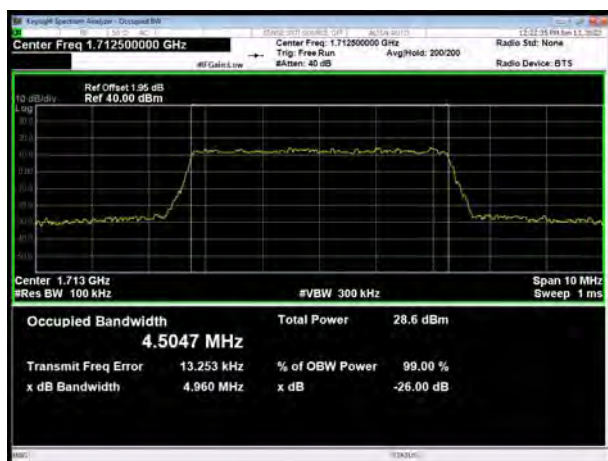
LTE Band 4 16QAM 1.4MHz CH-High



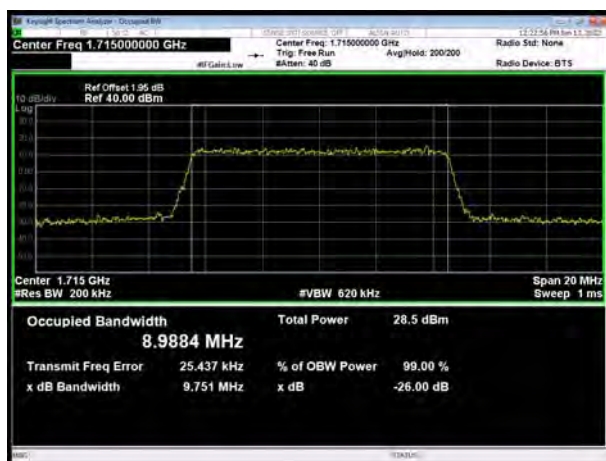
LTE Band 4 16QAM 3MHz CH-High



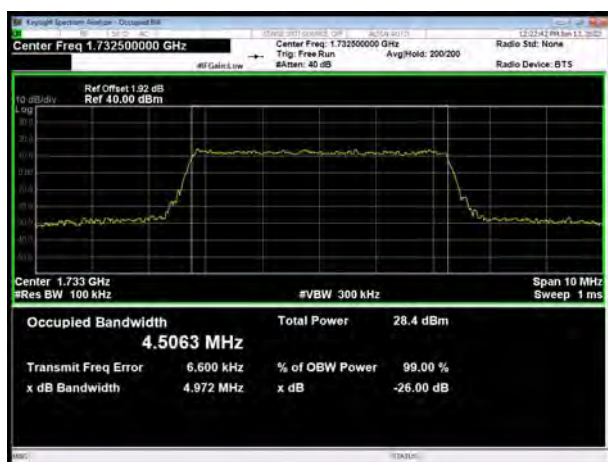
LTE Band 4 16QAM 5MHz CH-Low



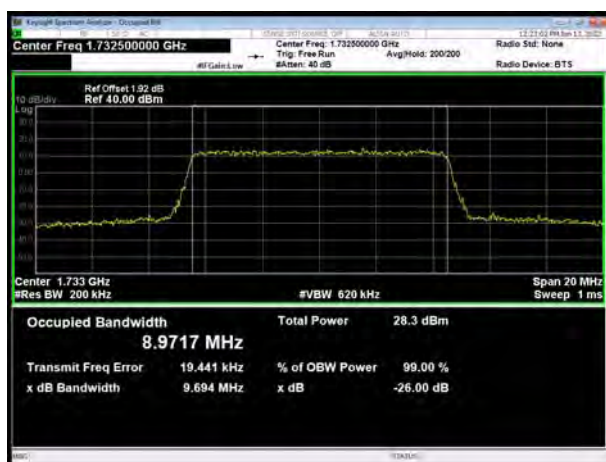
LTE Band 4 16QAM 10MHz CH-Low



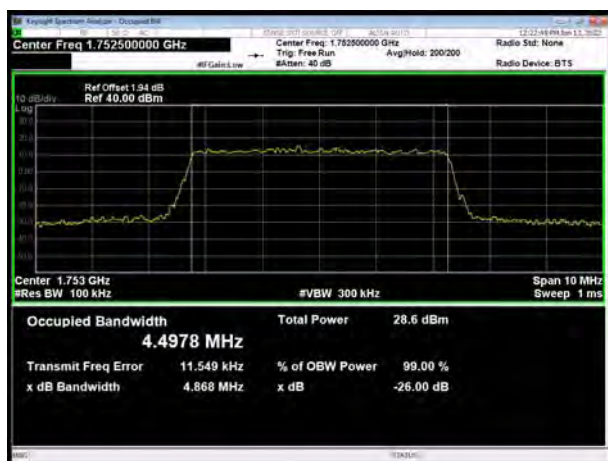
LTE Band 4 16QAM 5MHz CH-Middle



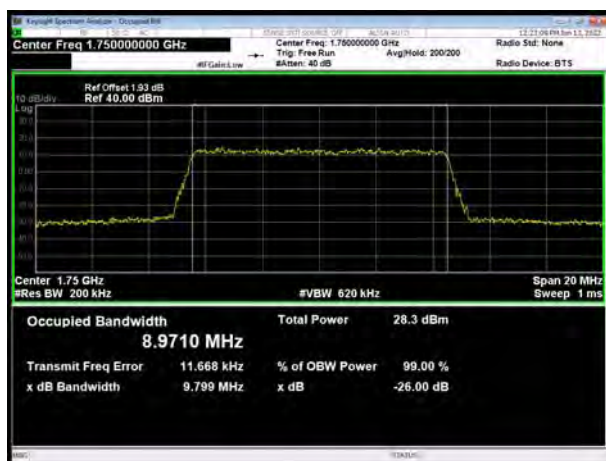
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High



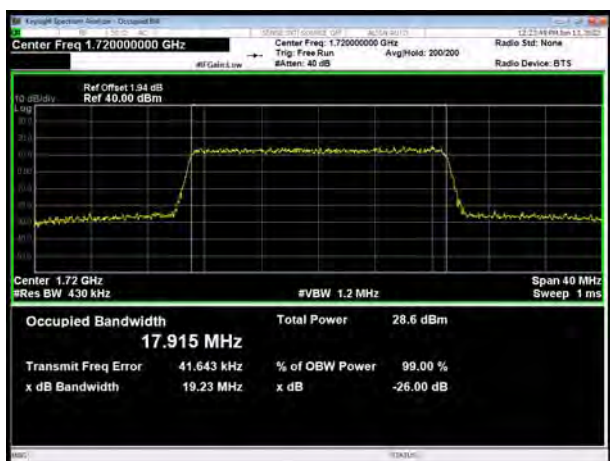
LTE Band 4 16QAM 10MHz CH-High



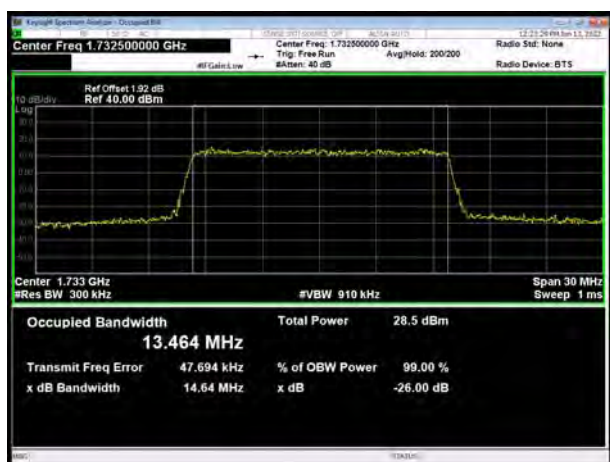
LTE Band 4 16QAM 15MHz CH-Low



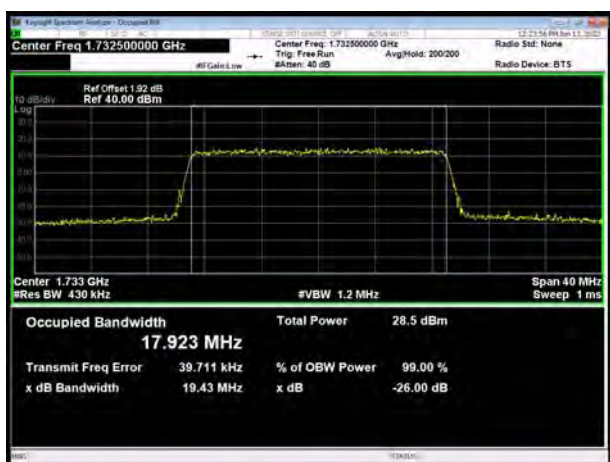
LTE Band 4 16QAM 20MHz CH-Low



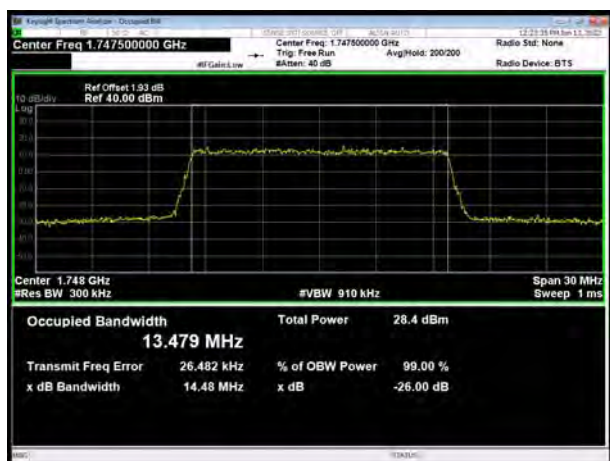
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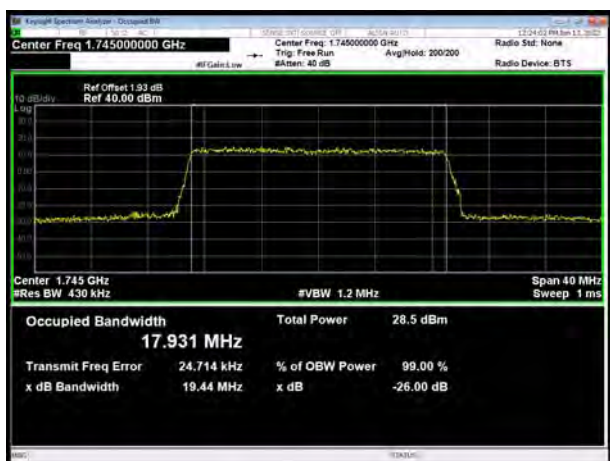
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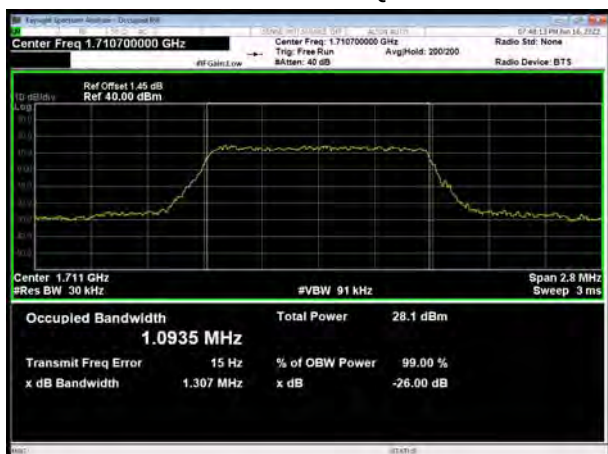
LTE Band 4 16QAM 15MHz CH-High



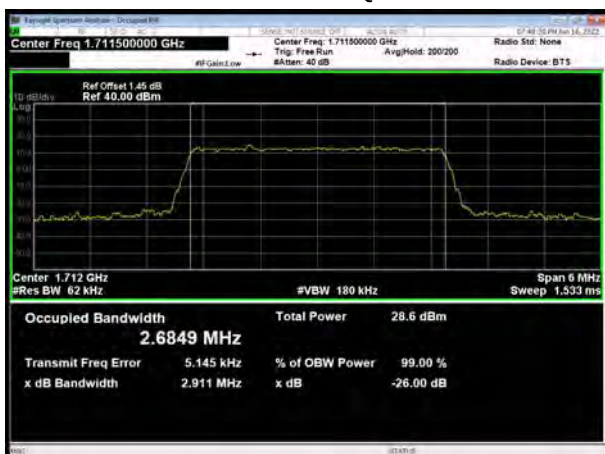
LTE Band 4 16QAM 20MHz CH-High



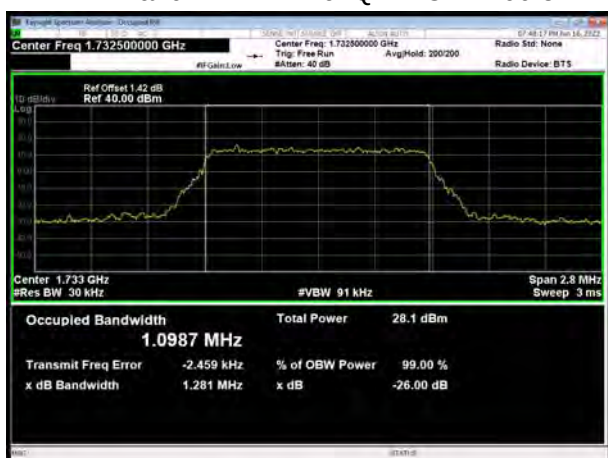
LTE Band 4 1.4MHz 64QAM CH-Low



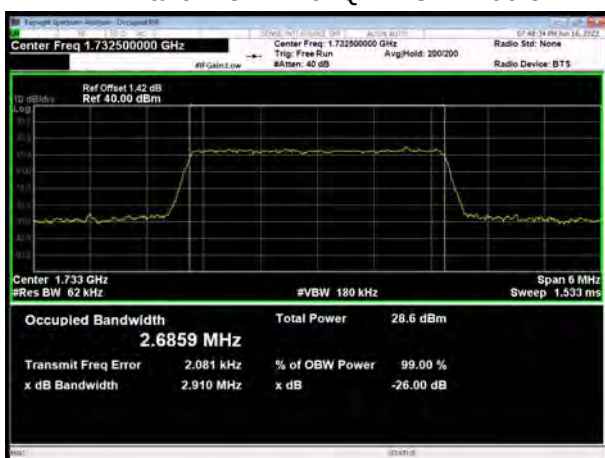
LTE Band 4 3MHz 64QAM CH-Low



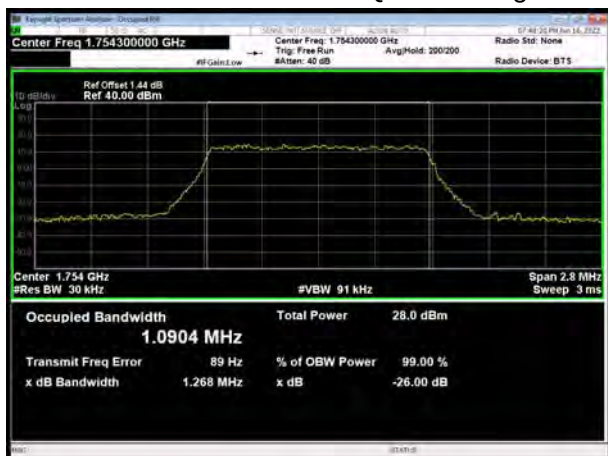
LTE Band 4 1.4MHz 64QAM CH-Middle



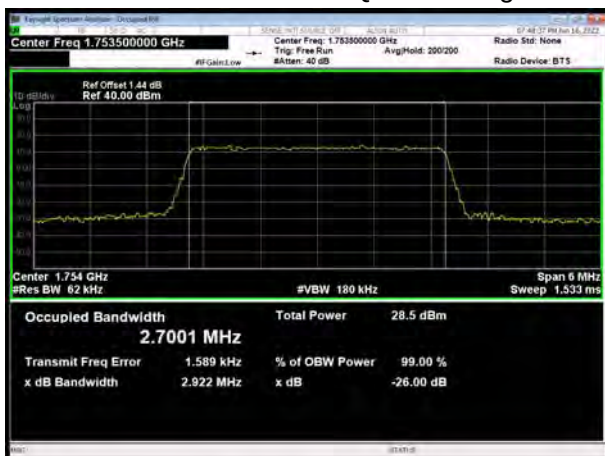
LTE Band 4 3MHz 64QAM CH-Middle



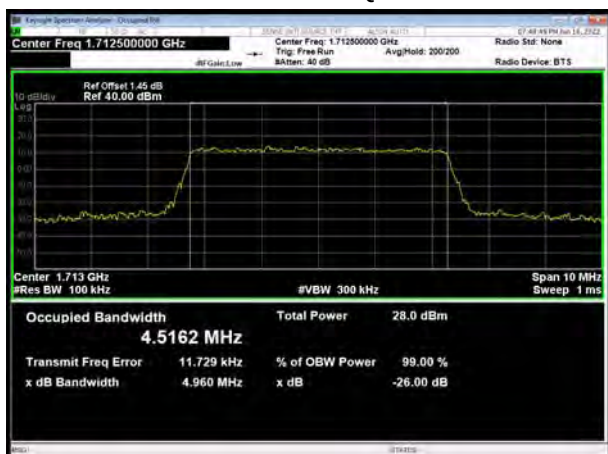
LTE Band 4 1.4MHz 64QAM CH-High



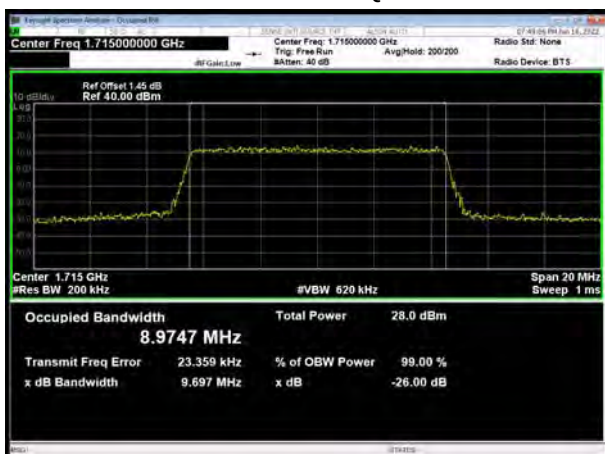
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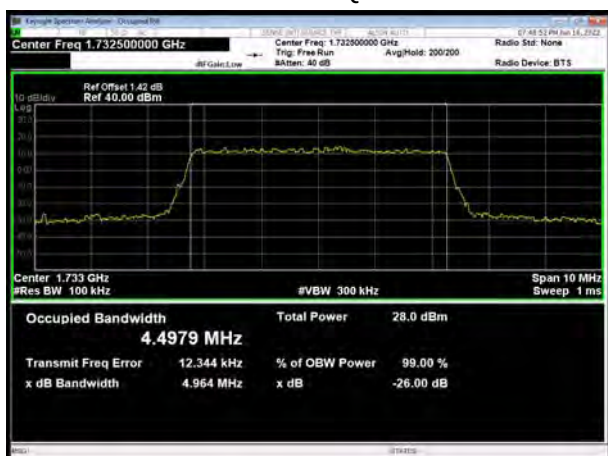
LTE Band 4 5MHz 64QAM CH-Low



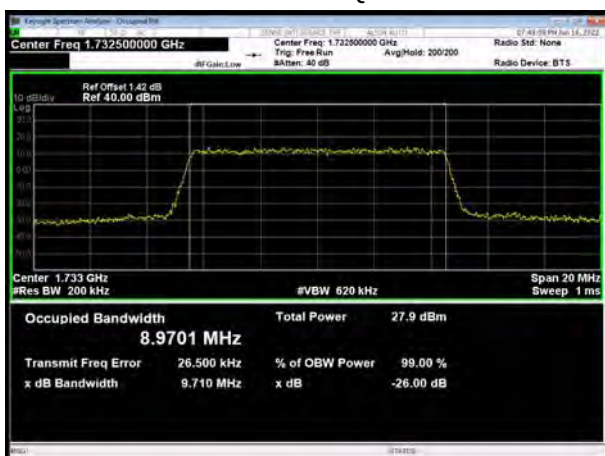
LTE Band 4 10MHz 64QAM CH-Low



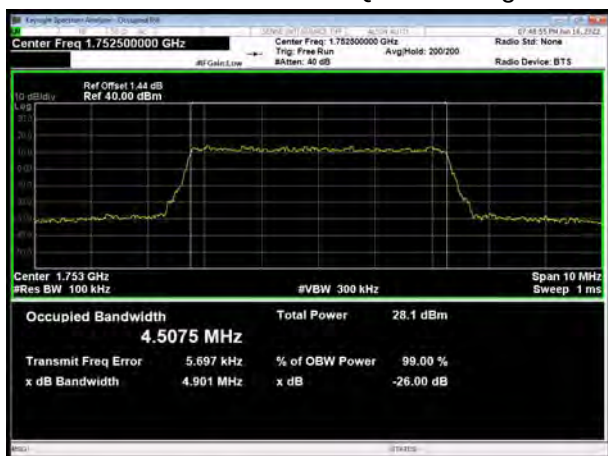
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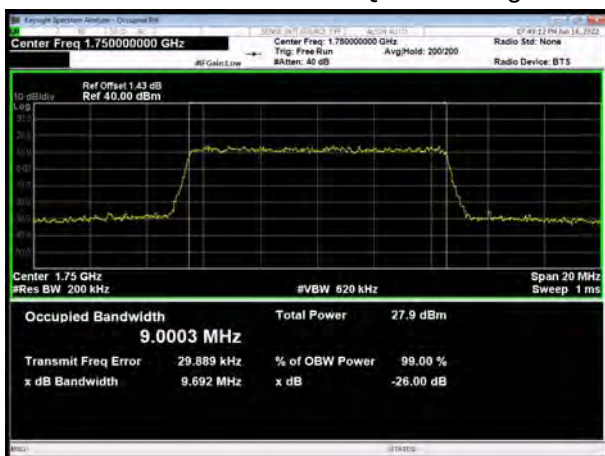
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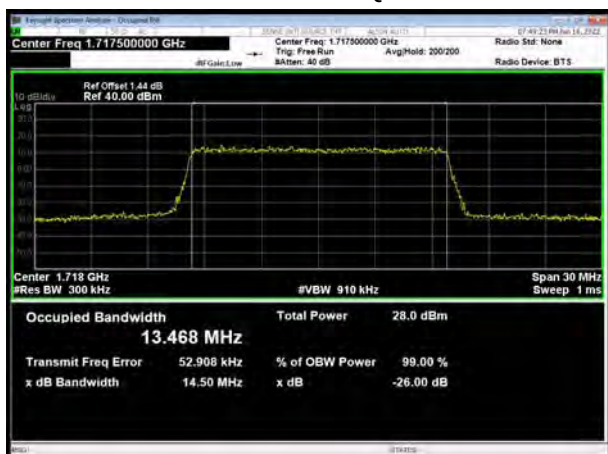
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LTE Band 4 10MHz 64QAM CH-High



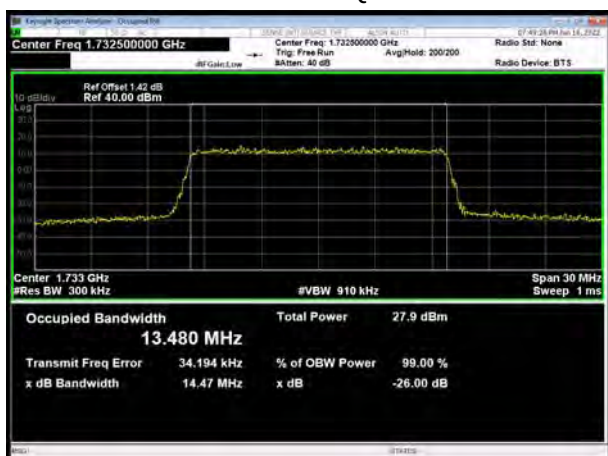
LTE Band 4 15MHz 64QAM CH-Low



LTE Band 4 20MHz 64QAM CH-Low



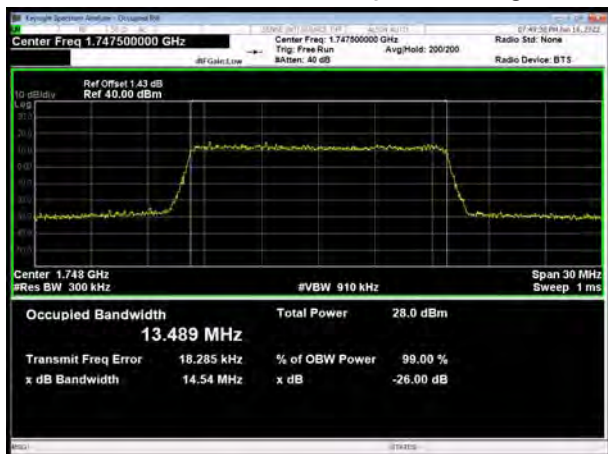
LTE Band 4 15MHz 64QAM CH-Middle



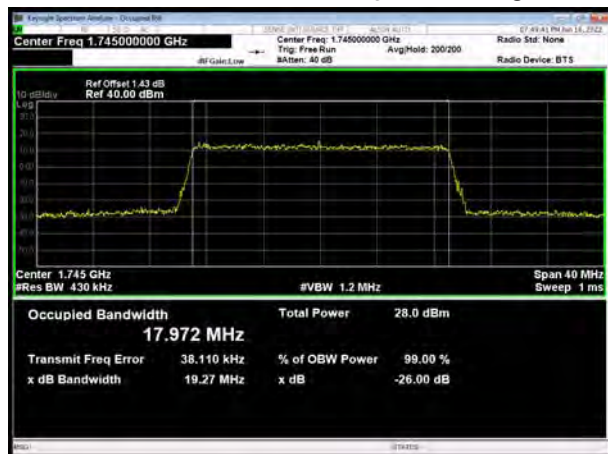
LTE Band 4 20MHz 64QAM CH-Middle



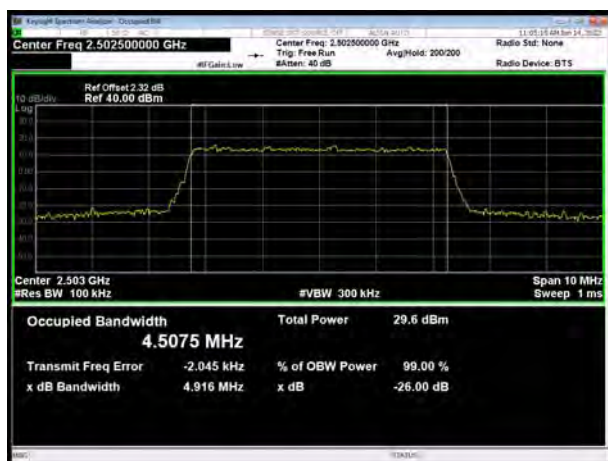
LTE Band 4 15MHz 64QAM CH-High



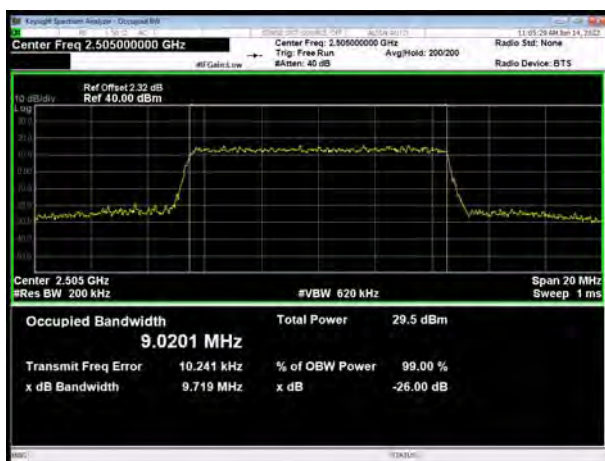
LTE Band 4 20MHz 64QAM CH-High



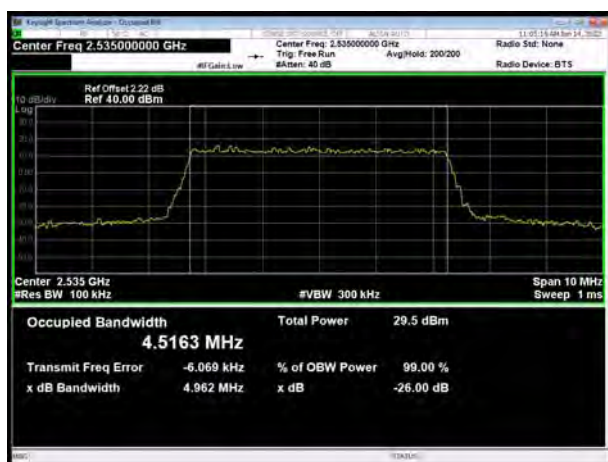
LTE Band 7 QPSK 5MHz CH-Low



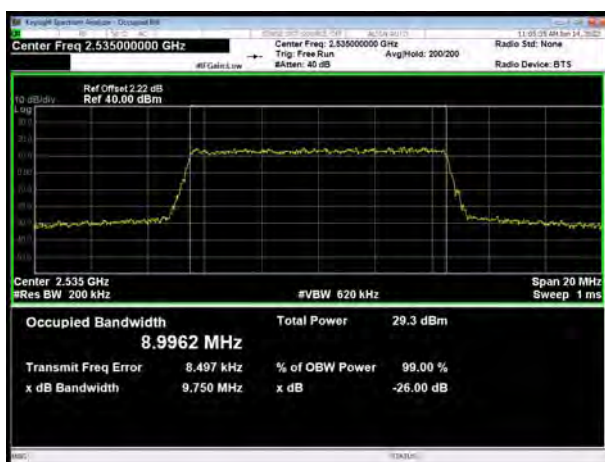
LTE Band 7 QPSK 10MHz CH-Low



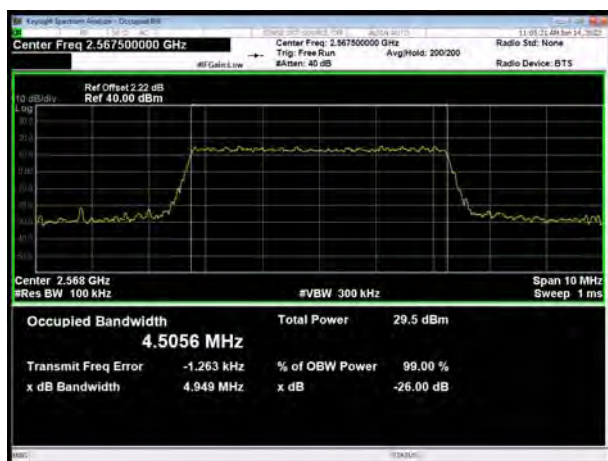
LTE Band 7 QPSK 5MHz CH-Middle



LTE Band 7 QPSK 10MHz CH-Middle



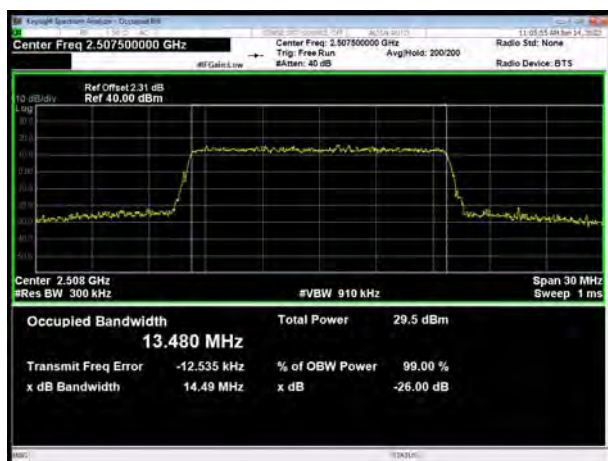
LTE Band 7 QPSK 5MHz CH-High



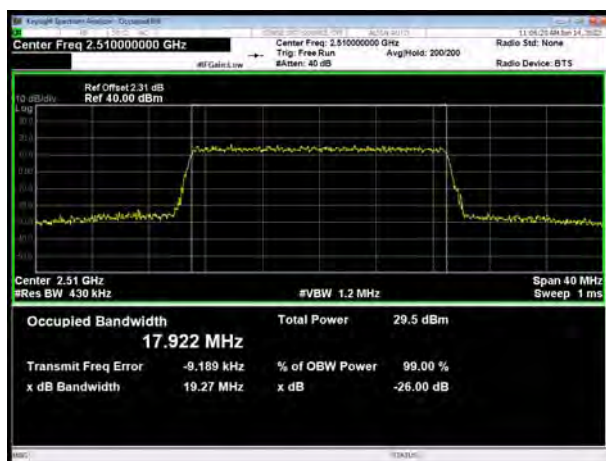
LTE Band 7 QPSK 10MHz CH-High



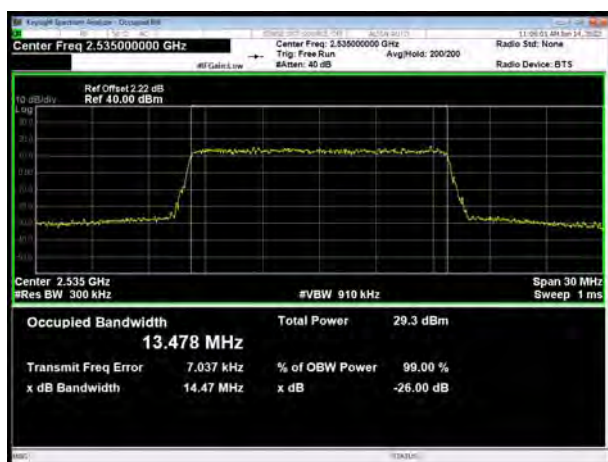
LTE Band 7 QPSK 15MHz CH-Low



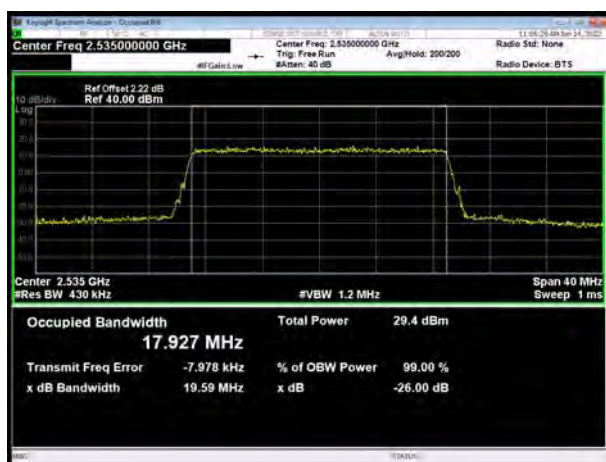
LTE Band 7 QPSK 20MHz CH-Low



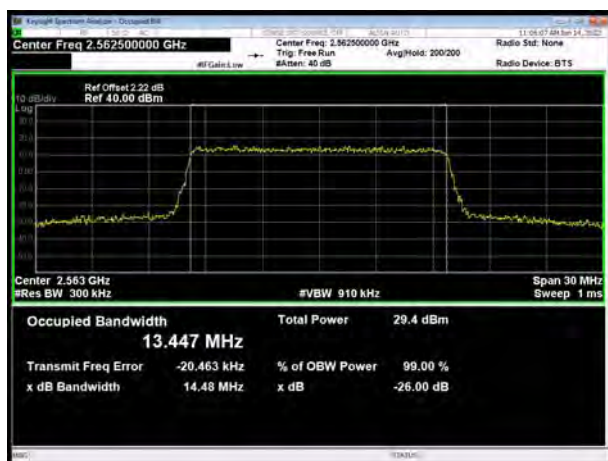
LTE Band 7 QPSK 15MHz CH-Middle



LTE Band 7 QPSK 20MHz CH-Middle



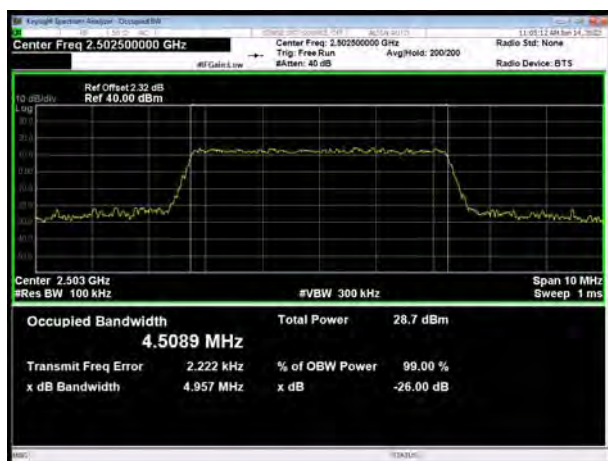
LTE Band 7 QPSK 15MHz CH-High



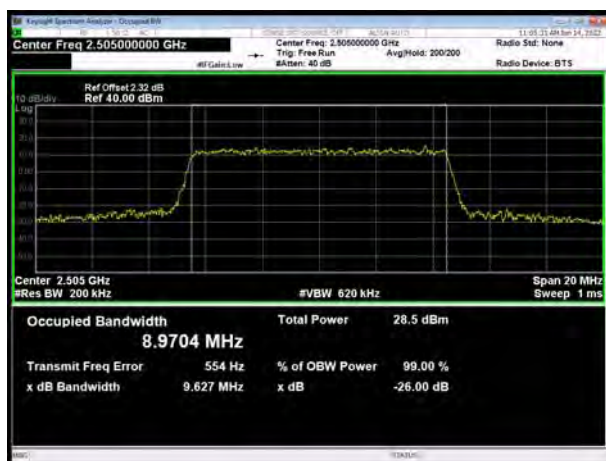
LTE Band 7 QPSK 20MHz CH-High



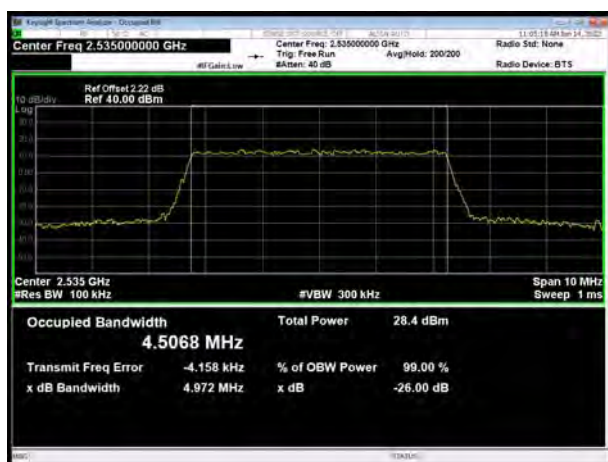
LTE Band 7 16QAM 5MHz CH-Low



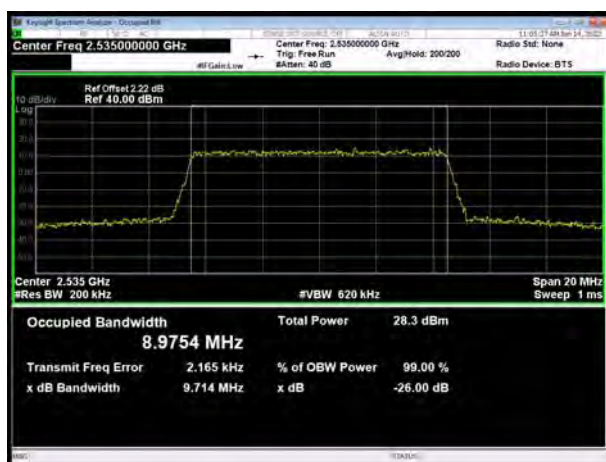
LTE Band 7 16QAM 10MHz CH-Low



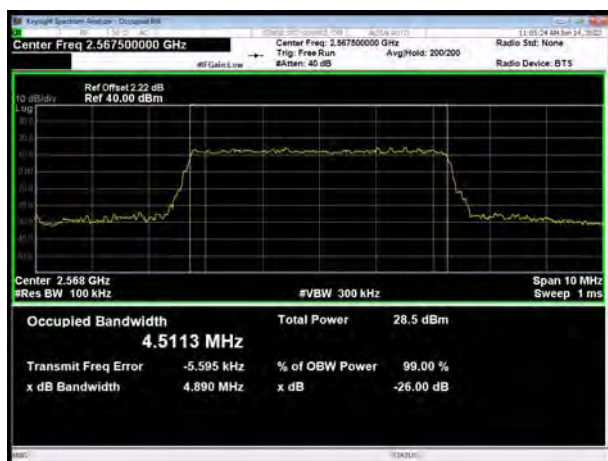
LTE Band 7 16QAM 5MHz CH-Middle



LTE Band 7 16QAM 10MHz CH-Middle



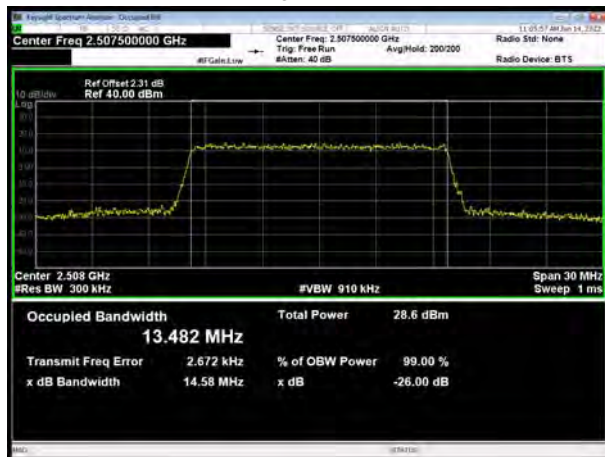
LTE Band 7 16QAM 5MHz CH-High



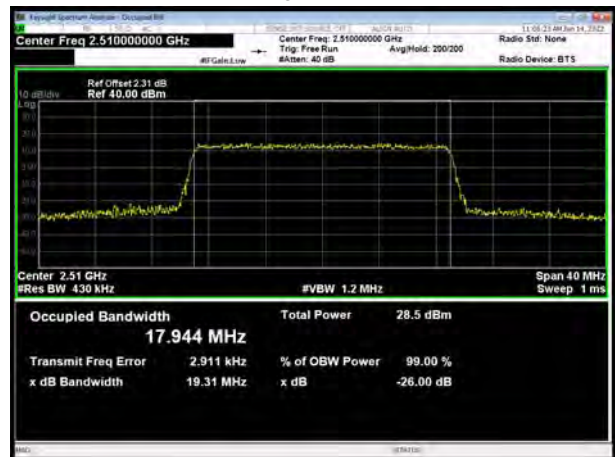
LTE Band 7 16QAM 10MHz CH-High



LTE Band 7 16QAM 15MHz CH-Low



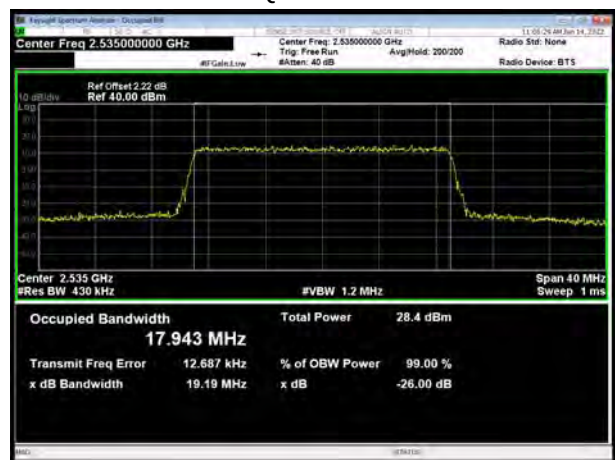
LTE Band 7 16QAM 20MHz CH-Low



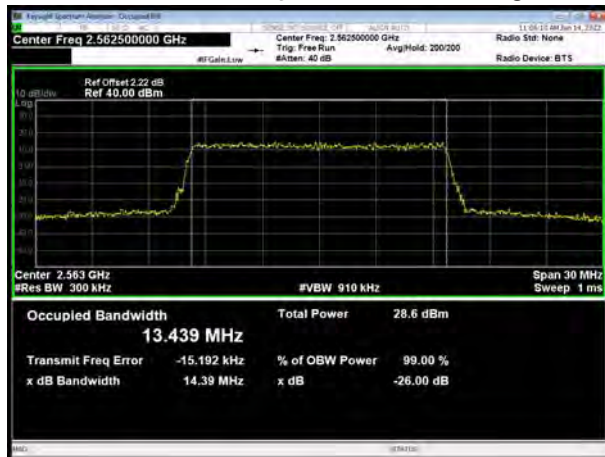
LTE Band 7 16QAM 15MHz CH-Middle



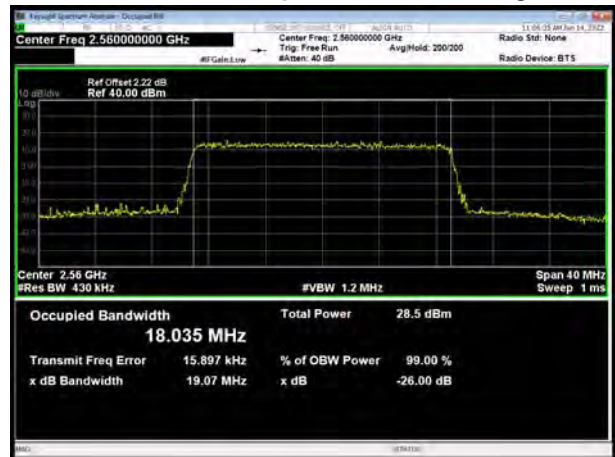
LTE Band 7 16QAM 20MHz CH-Middle



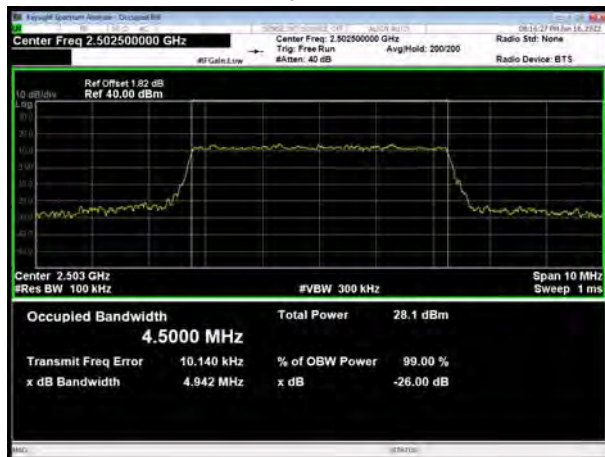
LTE Band 7 16QAM 15MHz CH-High



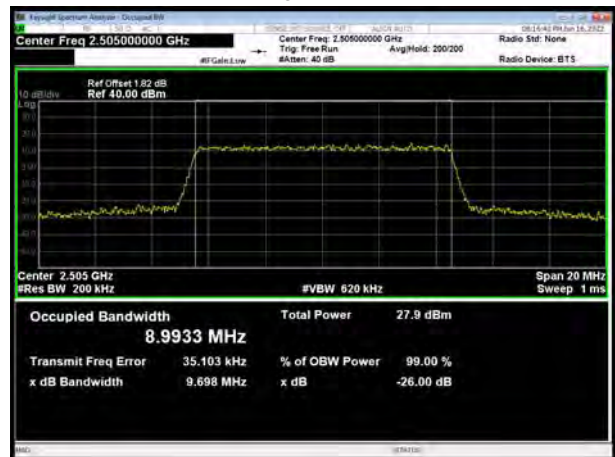
LTE Band 7 16QAM 20MHz CH-High



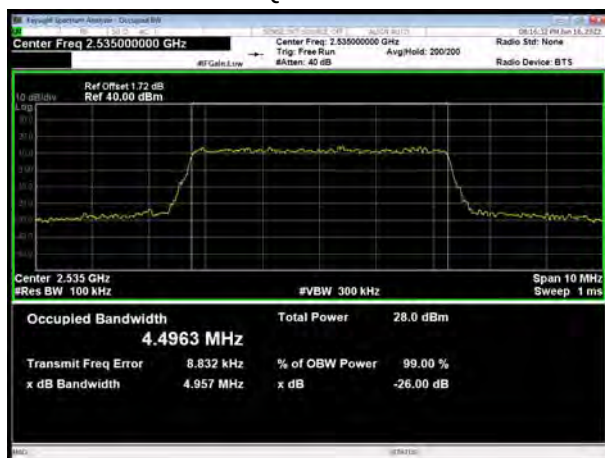
LTE Band 7 64QAM 5MHz CH-Low



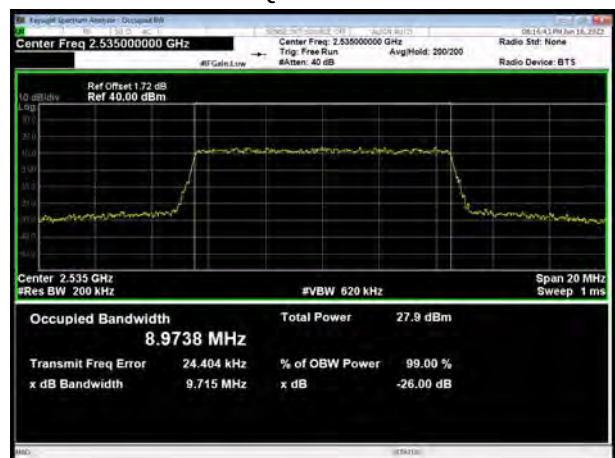
LTE Band 7 64QAM 10MHz CH-Low



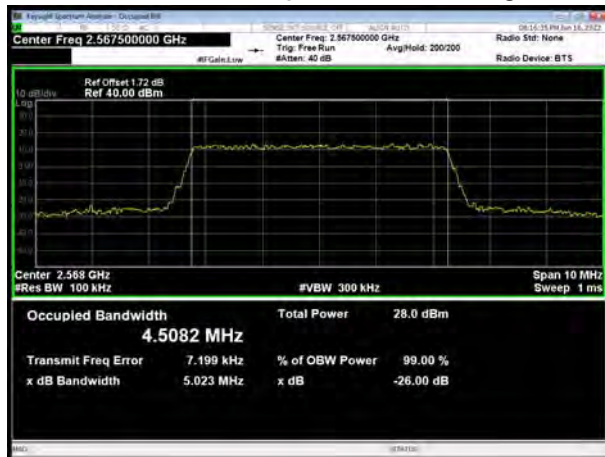
LTE Band 7 64QAM 5MHz CH-Middle



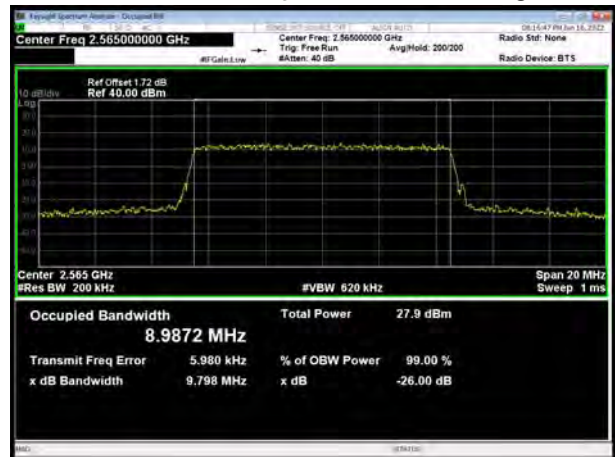
LTE Band 7 64QAM 10MHz CH-Middle



LTE Band 7 64QAM 5MHz CH-High



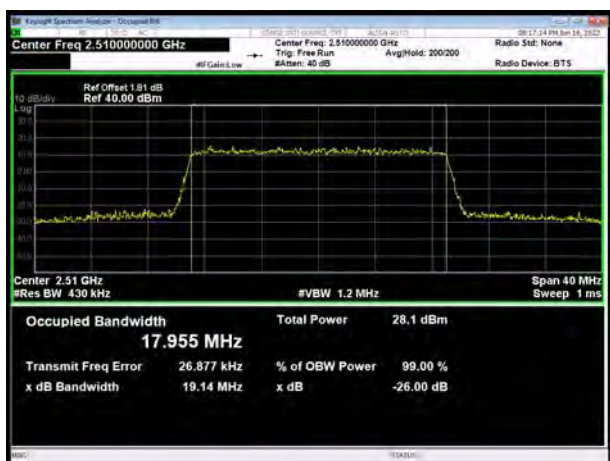
LTE Band 7 64QAM 10MHz CH-High



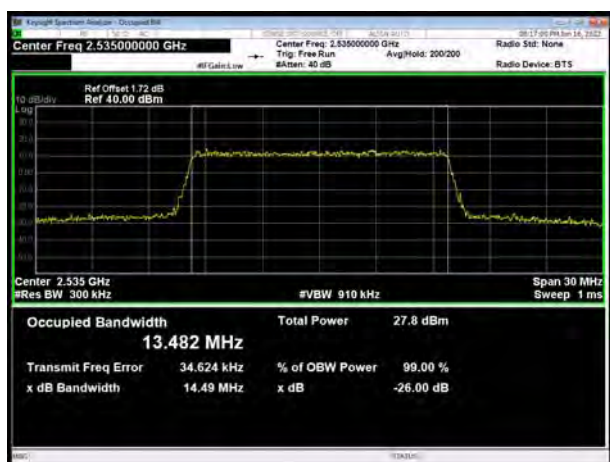
LTE Band 7 64QAM 15MHz CH-Low



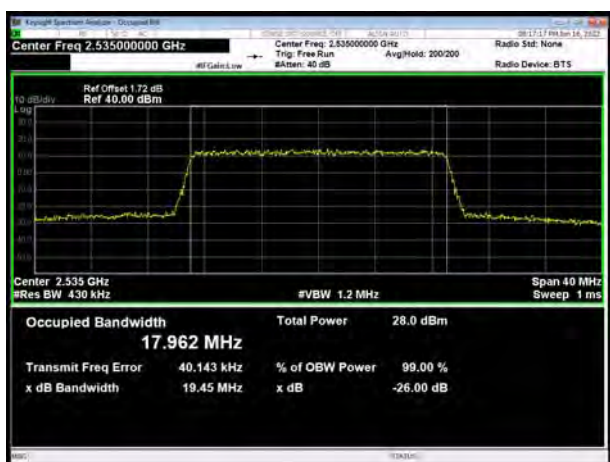
LTE Band 7 64QAM 20MHz CH-Low



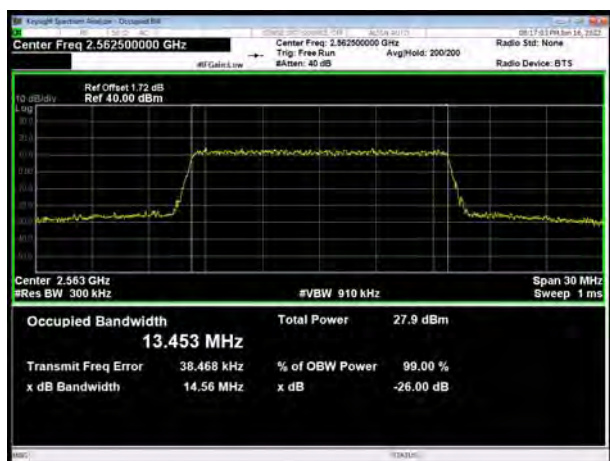
LTE Band 7 64QAM 15MHz CH-Middle



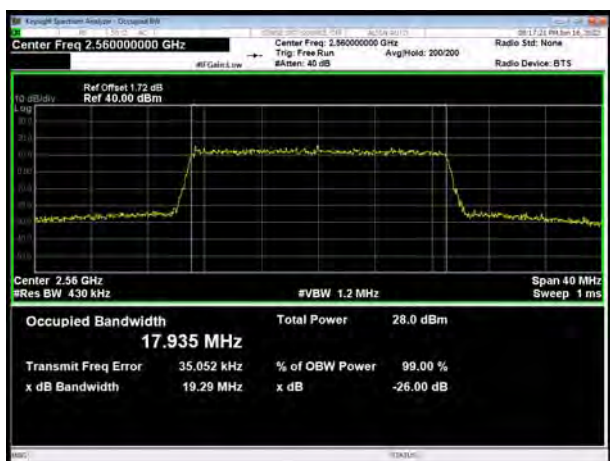
LTE Band 7 64QAM 20MHz CH-Middle



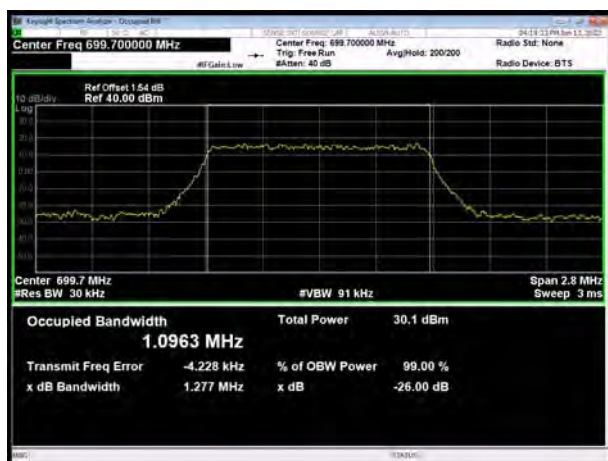
LTE Band 7 64QAM 15MHz CH-High



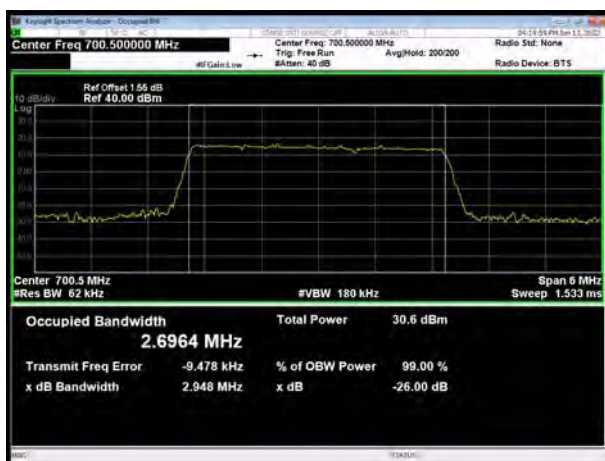
LTE Band 7 64QAM 20MHz CH-High



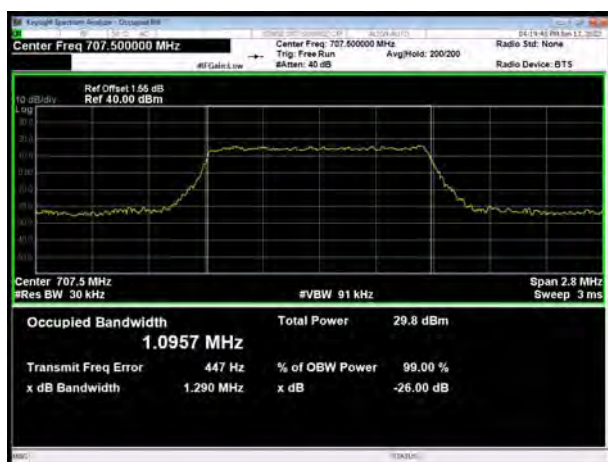
LTE Band 12 QPSK 1.4MHz CH-Low



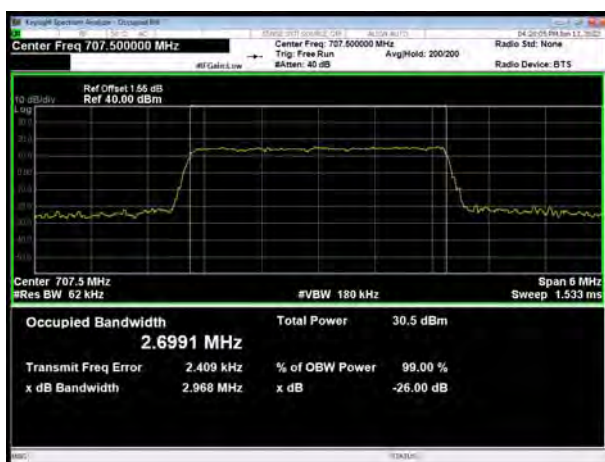
LTE Band 12 QPSK 3MHz CH-Low



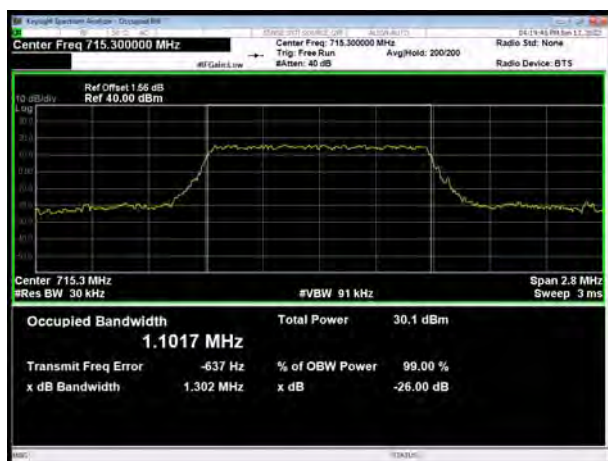
LTE Band 12 QPSK 1.4MHz CH-Middle



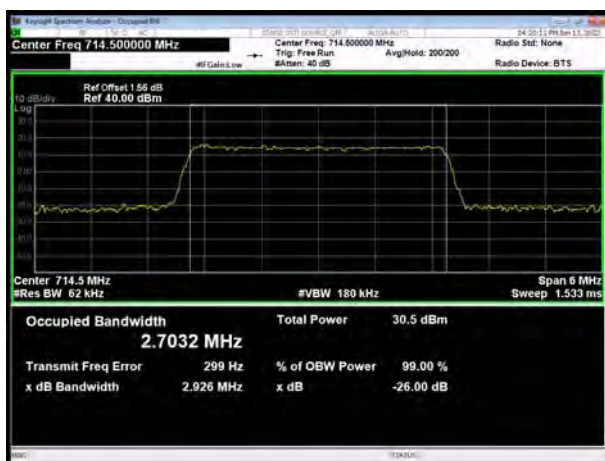
LTE Band 12 QPSK 3MHz CH-Middle



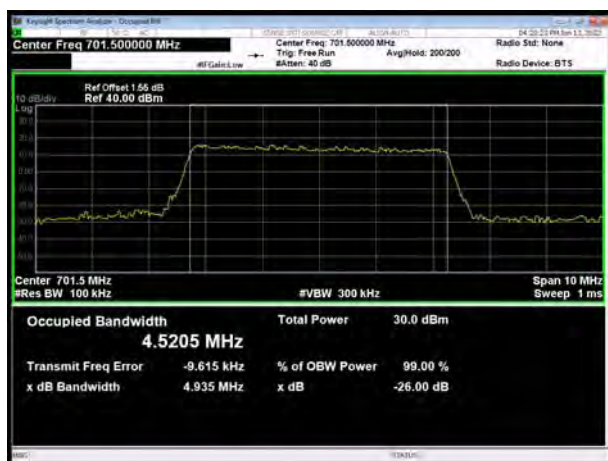
LTE Band 12 QPSK 1.4MHz CH-High



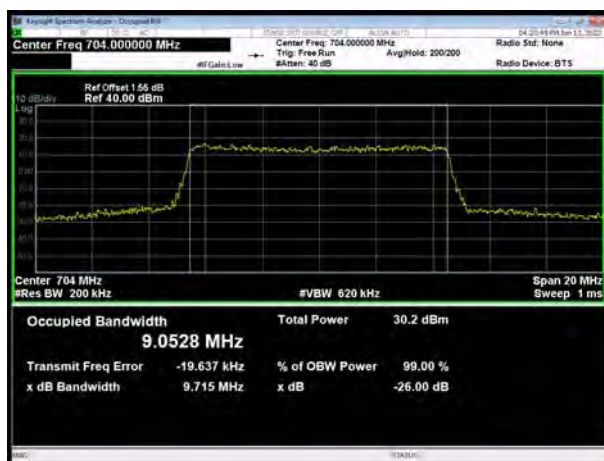
LTE Band 12 QPSK 3MHz CH-High



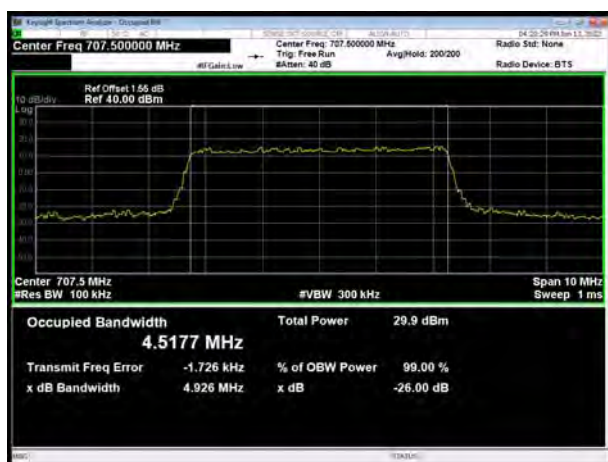
LTE Band 12 QPSK 5MHz CH-Low



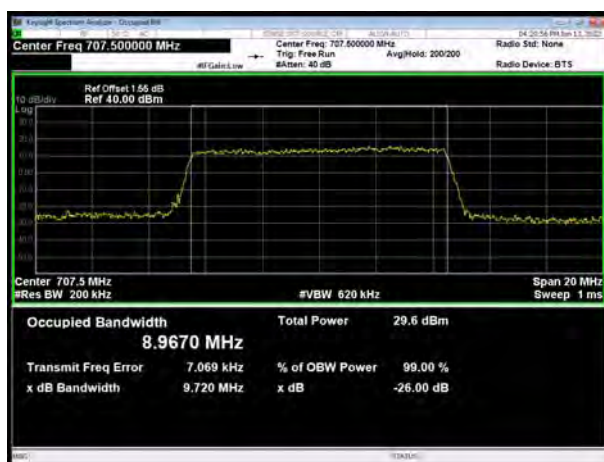
LTE Band 12 QPSK 10MHz CH-Low



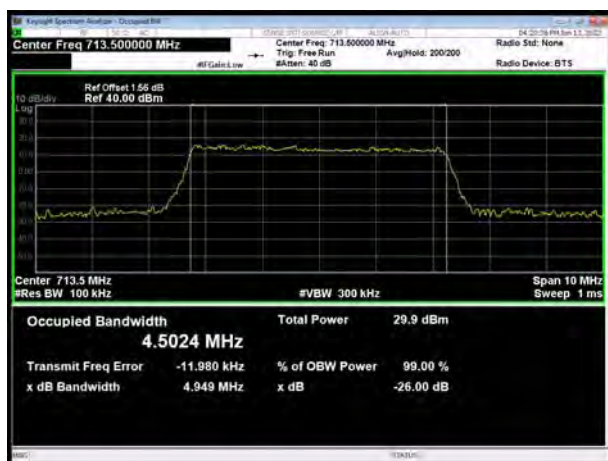
LTE Band 12 QPSK 5MHz CH-Middle



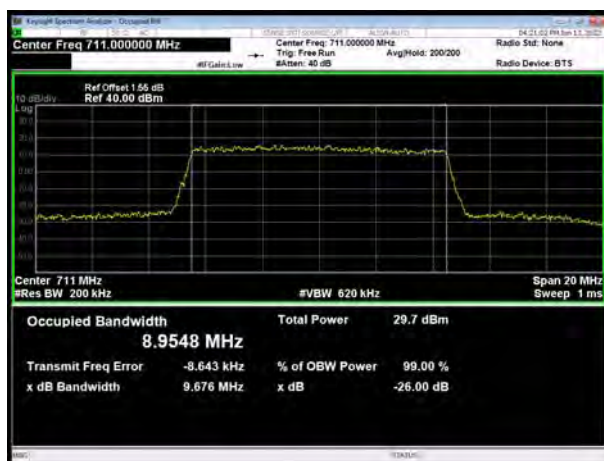
LTE Band 12 QPSK 10MHz CH-Middle



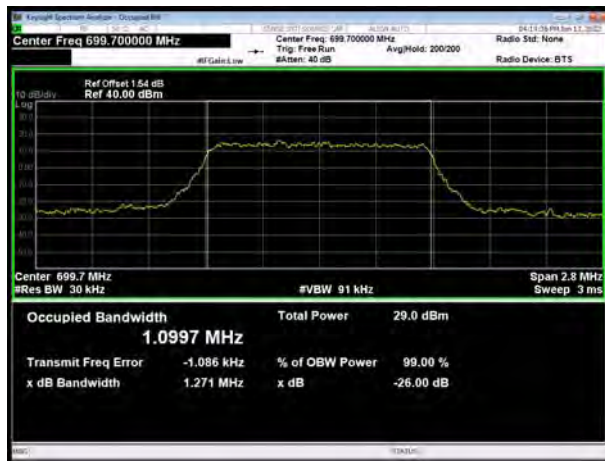
LTE Band 12 QPSK 5MHz CH-High



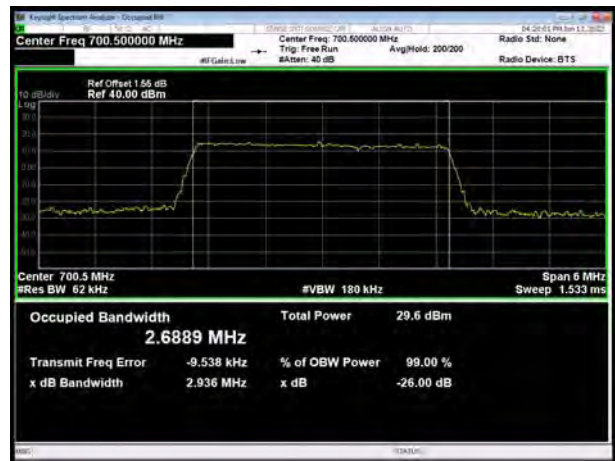
LTE Band 12 QPSK 10MHz CH-High



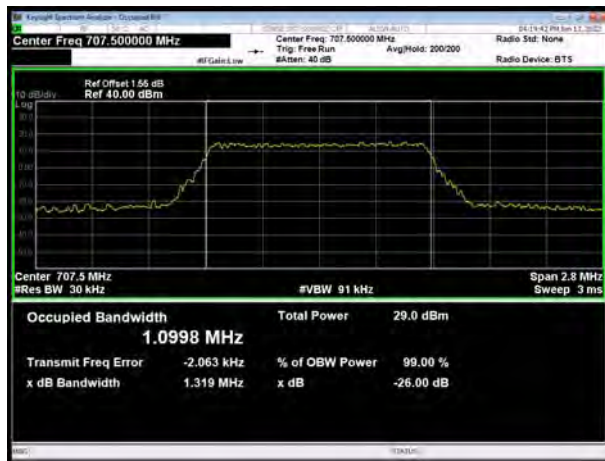
LTE Band 12 16QAM 1.4MHz CH-Low



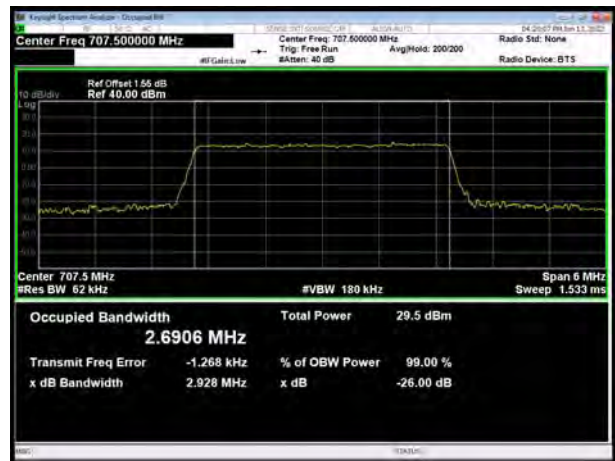
LTE Band 12 16QAM 3MHz CH-Low



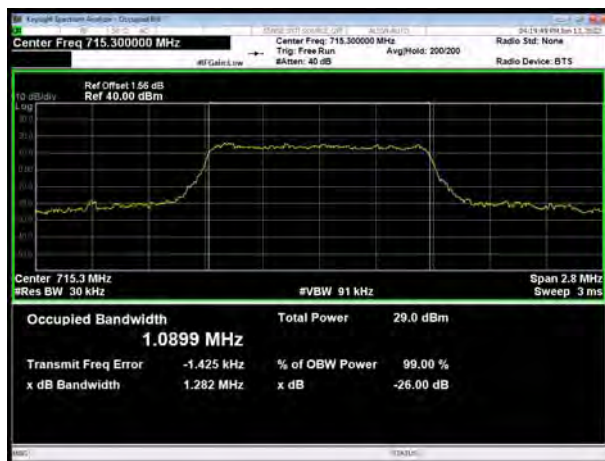
LTE Band 12 16QAM 1.4MHz CH-Middle



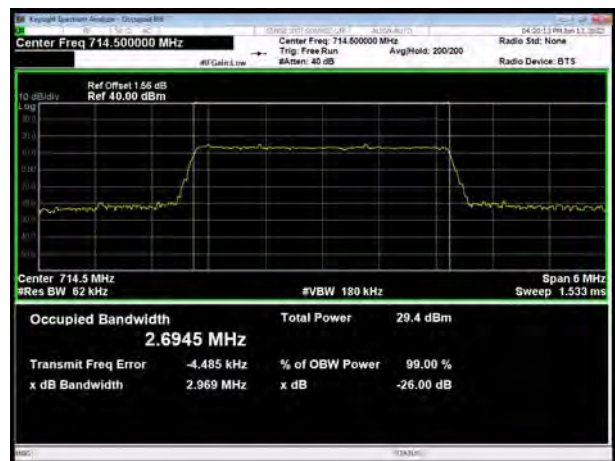
LTE Band 12 16QAM 3MHz CH-Middle



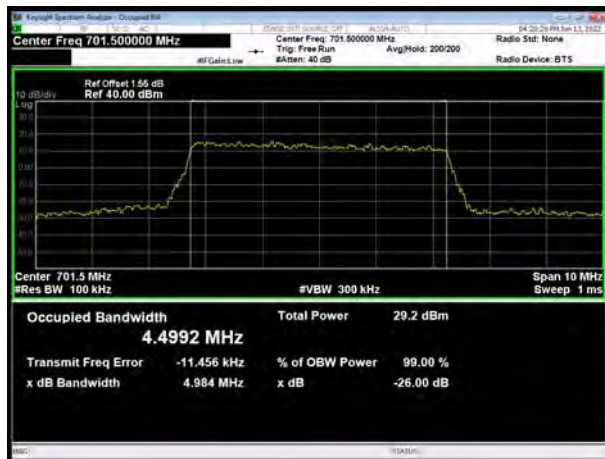
LTE Band 12 16QAM 1.4MHz CH-High



LTE Band 12 16QAM 3MHz CH-High



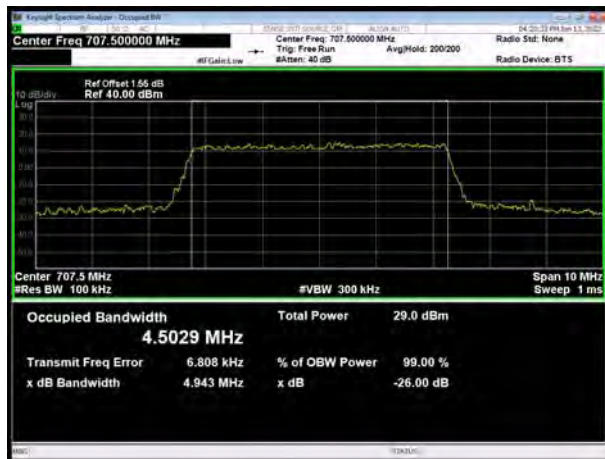
LTE Band 12 16QAM 5MHz CH-Low



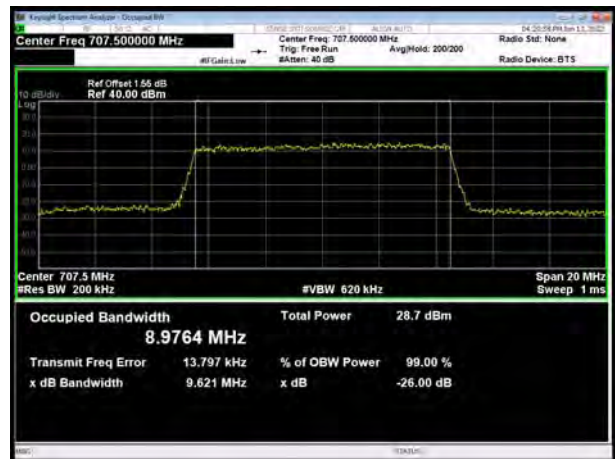
LTE Band 12 16QAM 10MHz CH-Low



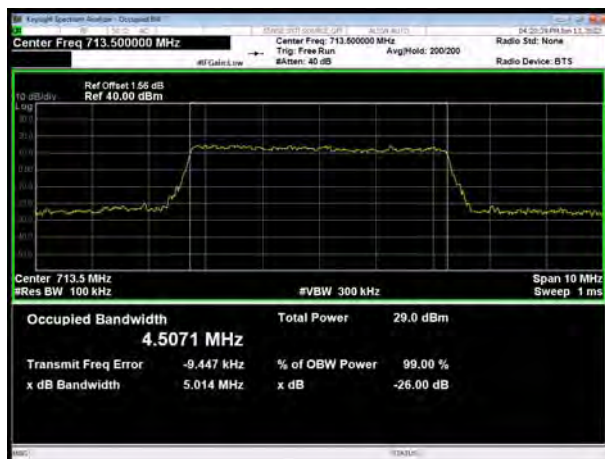
LTE Band 12 16QAM 5MHz CH-Middle



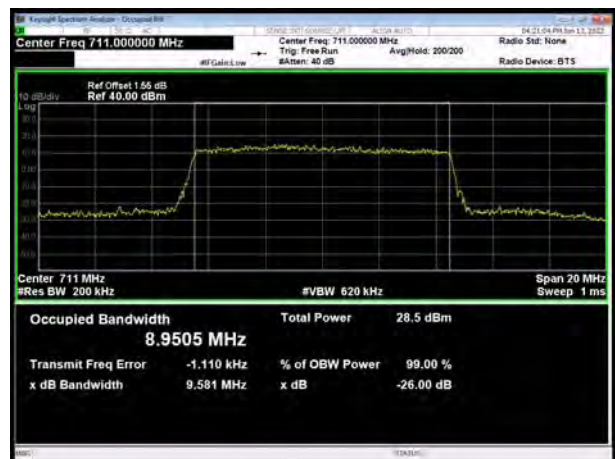
LTE Band 12 16QAM 10MHz CH-Middle



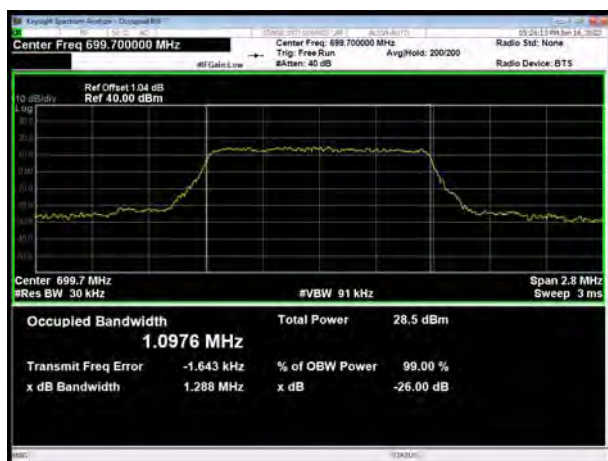
LTE Band 12 16QAM 5MHz CH-High



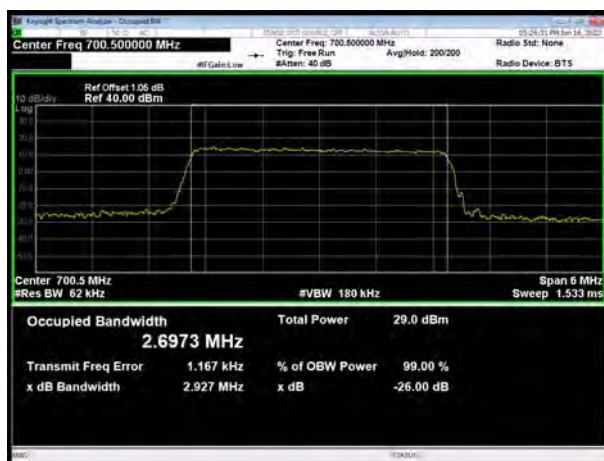
LTE Band 12 16QAM 10MHz CH-High



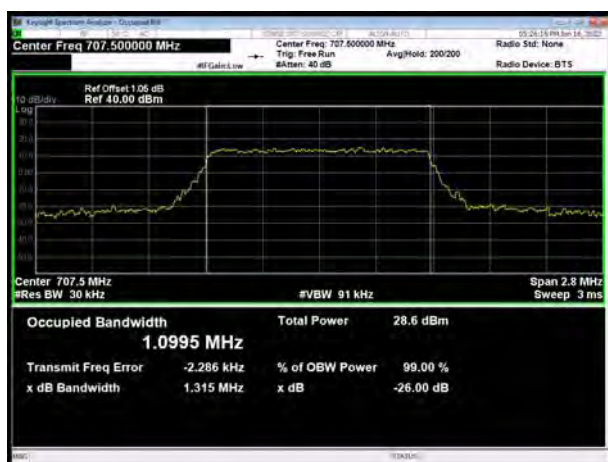
LTE Band 12 64QAM 1.4MHz CH-Low



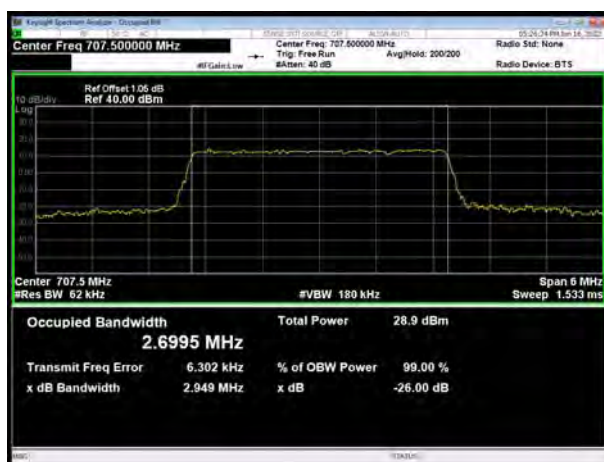
LTE Band 12 64QAM 3MHz CH-Low



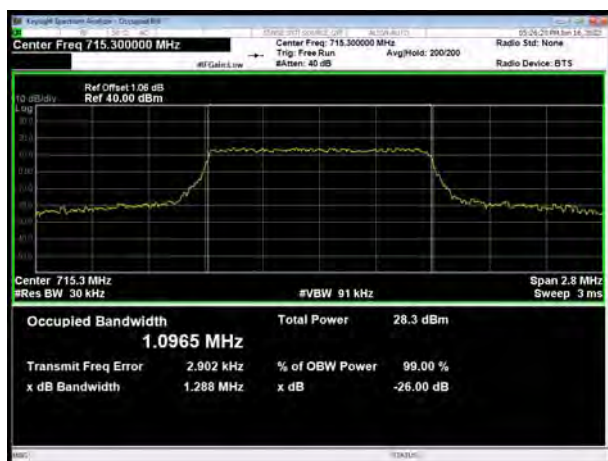
LTE Band 12 64QAM 1.4MHz CH-Middle



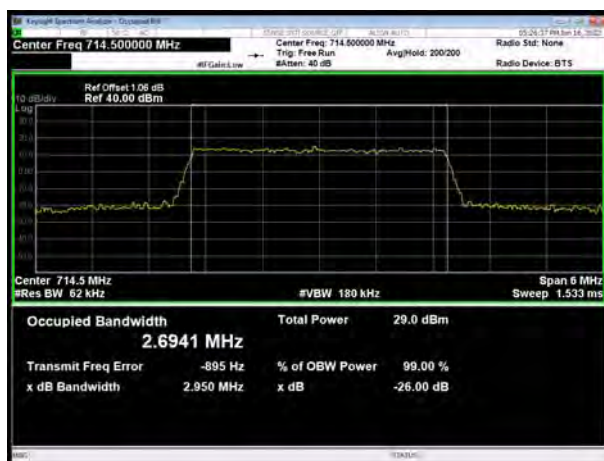
LTE Band 12 64QAM 3MHz CH-Middle



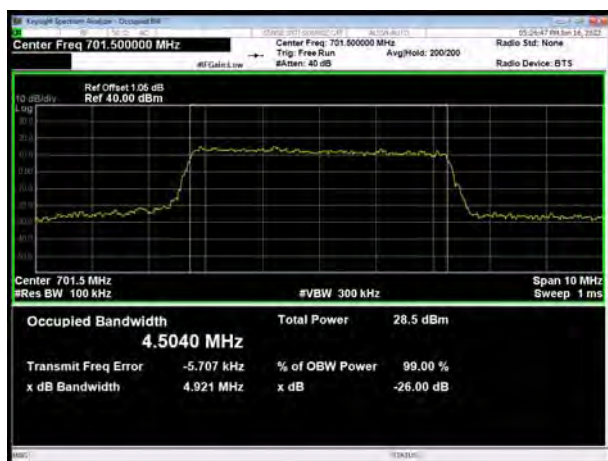
LTE Band 12 64QAM 1.4MHz CH-High



LTE Band 12 64QAM 3MHz CH-High



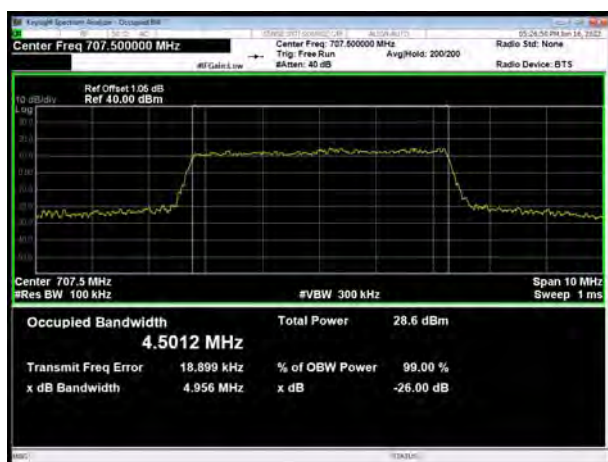
LTE Band 12 64QAM 5MHz CH-Low



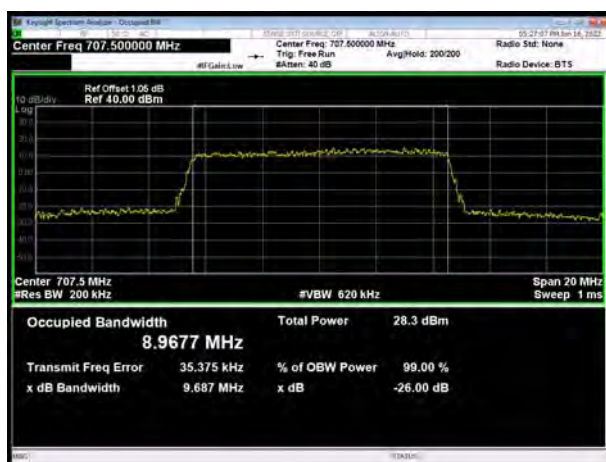
LTE Band 12 64QAM 10MHz CH-Low



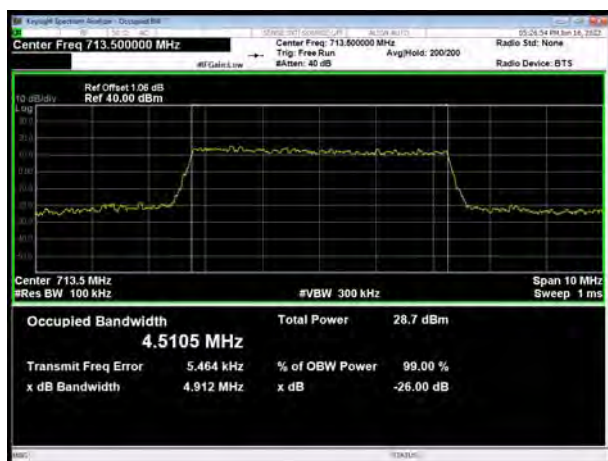
LTE Band 12 64QAM 5MHz CH-Middle



LTE Band 12 64QAM 10MHz CH-Middle



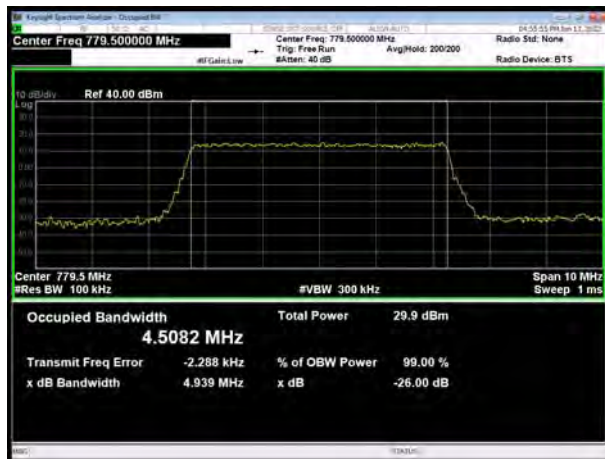
LTE Band 12 64QAM 5MHz CH-High



LTE Band 12 64QAM 10MHz CH-High



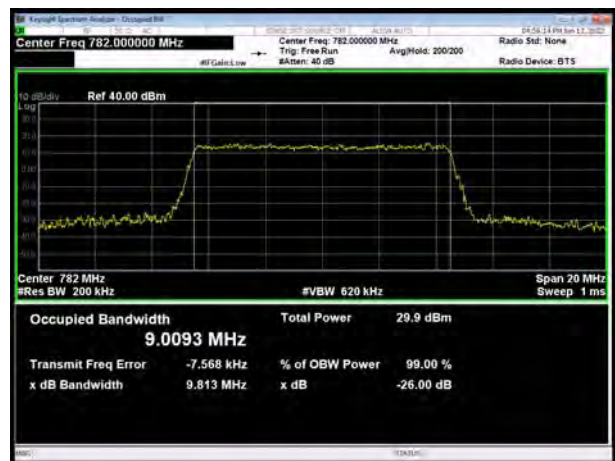
LTE Band 13 QPSK 5MHz CH-Low



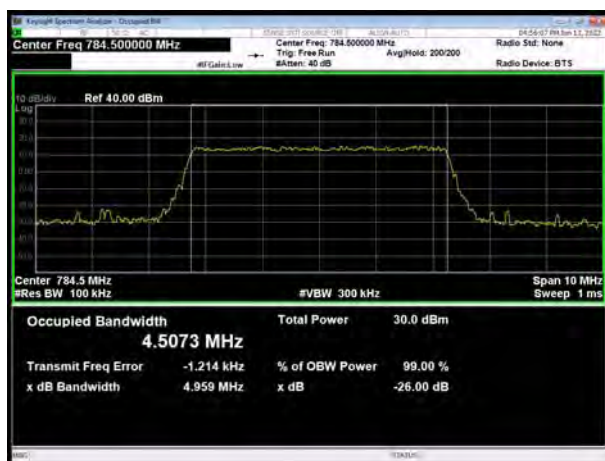
LTE Band 13 QPSK 5MHz CH-Middle



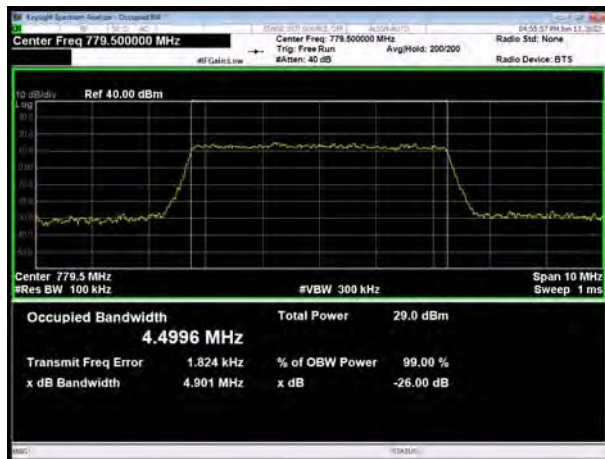
LTE Band 13 QPSK 10MHz CH-Middle



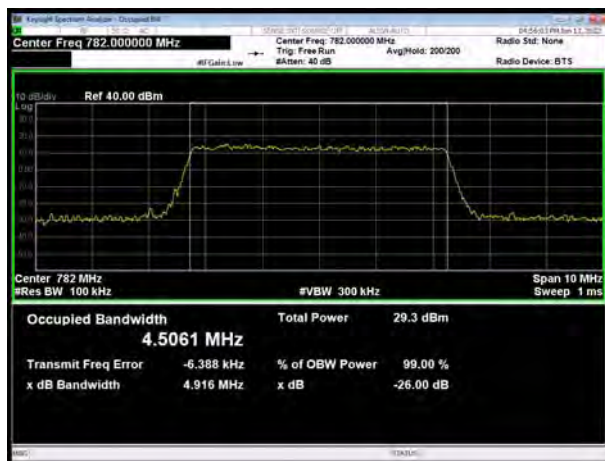
LTE Band 13 QPSK 5MHz CH-High



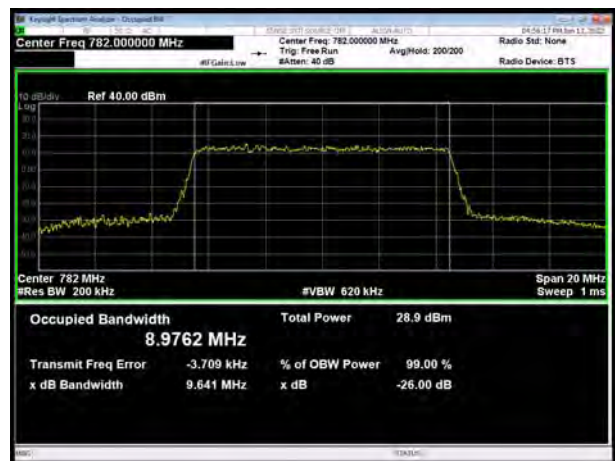
LTE Band 13 16QAM 5MHz CH-Low



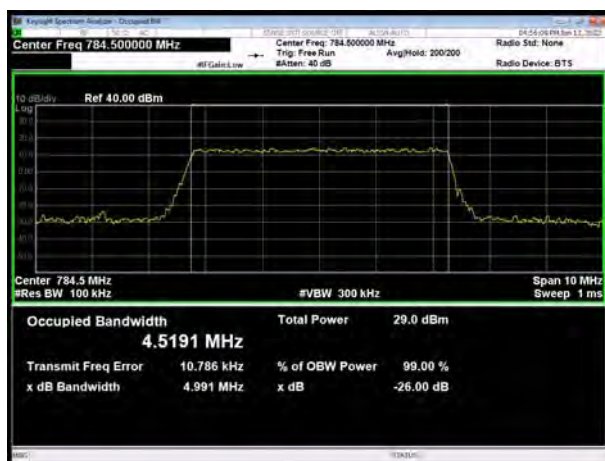
LTE Band 13 16QAM 5MHz CH-Middle



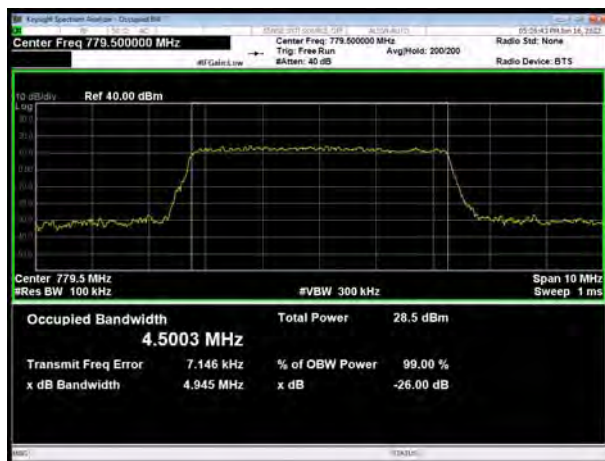
LTE Band 13 16QAM 10MHz CH-Middle



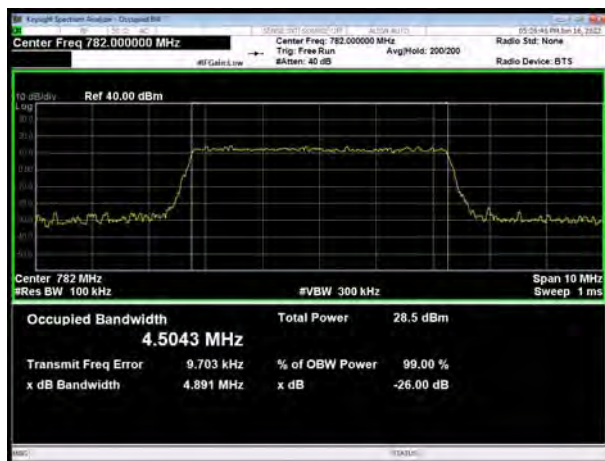
LTE Band 13 16QAM 5MHz CH-High



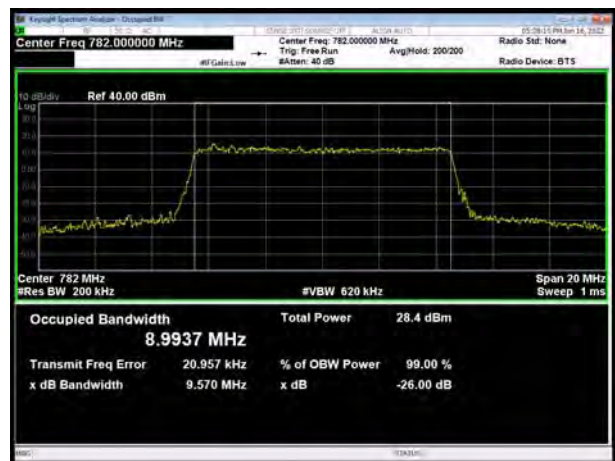
LTE Band 13 64QAM 5MHz CH-Low



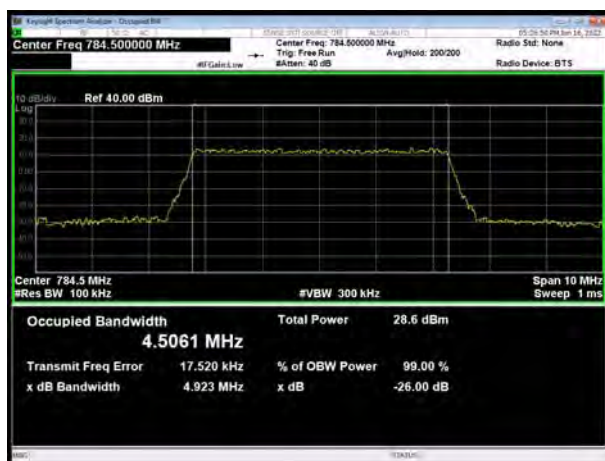
LTE Band 13 64QAM 5MHz CH-Middle



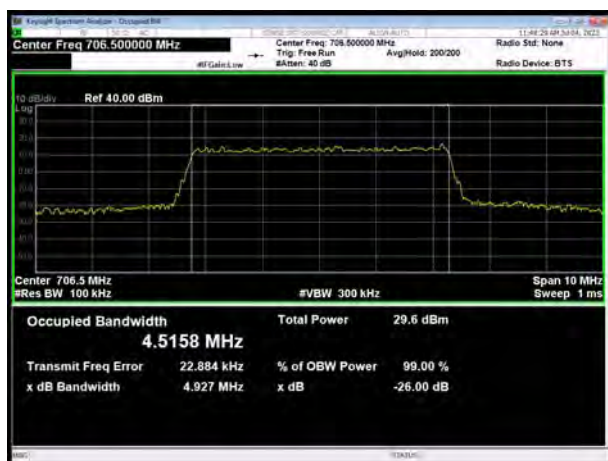
LTE Band 13 64QAM 10MHz CH-Middle



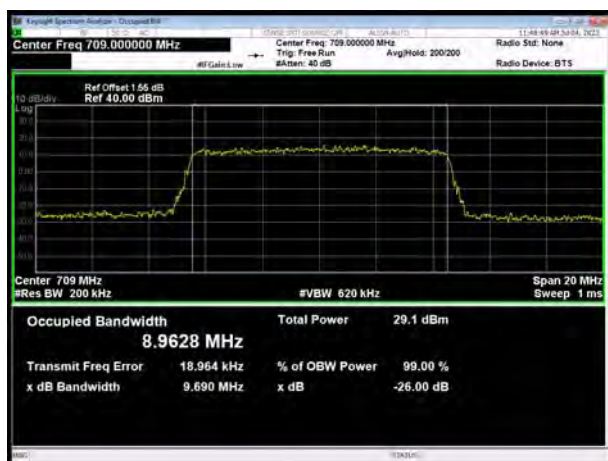
LTE Band 13 64QAM 5MHz CH-High



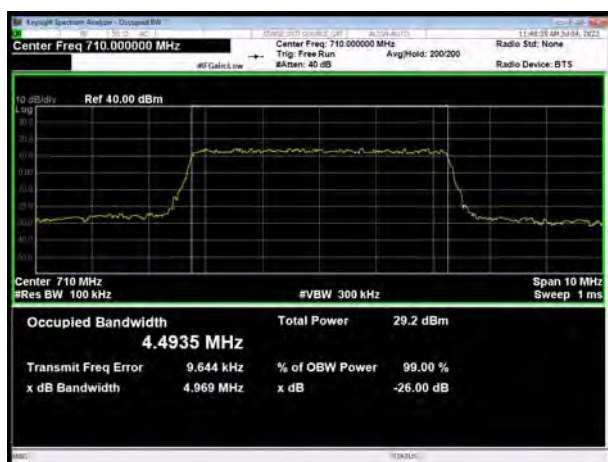
LTE Band 17 QPSK 5MHz CH-Low



LTE Band 17 QPSK 10MHz CH-Low



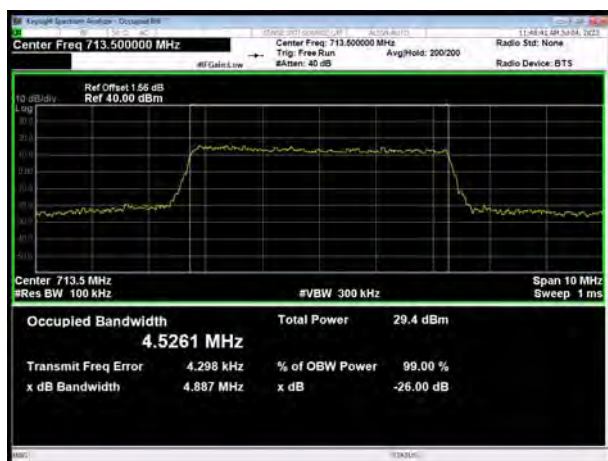
LTE Band 17 QPSK 5MHz CH-Middle



LTE Band 17 QPSK 10MHz CH-Middle



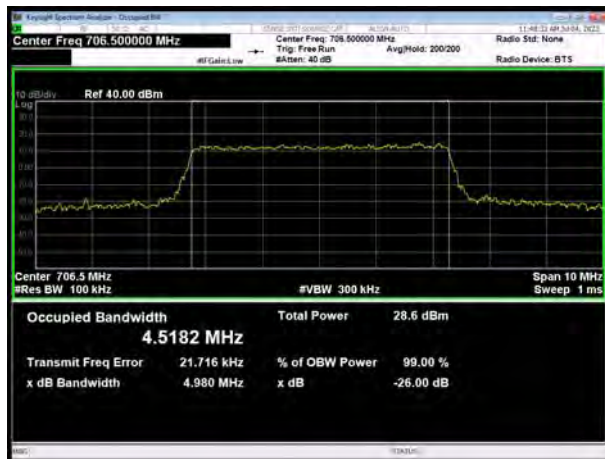
LTE Band 17 QPSK 5MHz CH-High



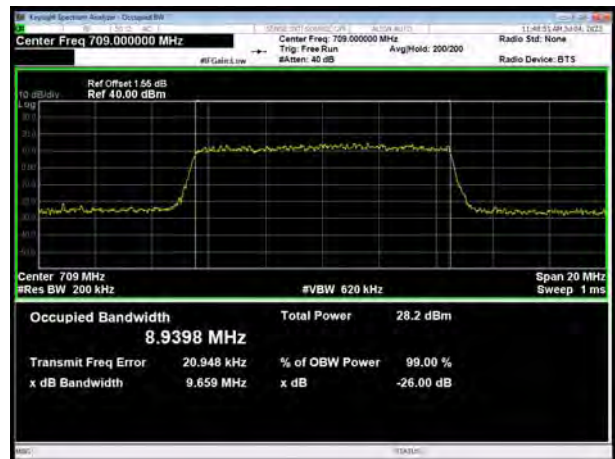
LTE Band 17 QPSK 10MHz CH-High



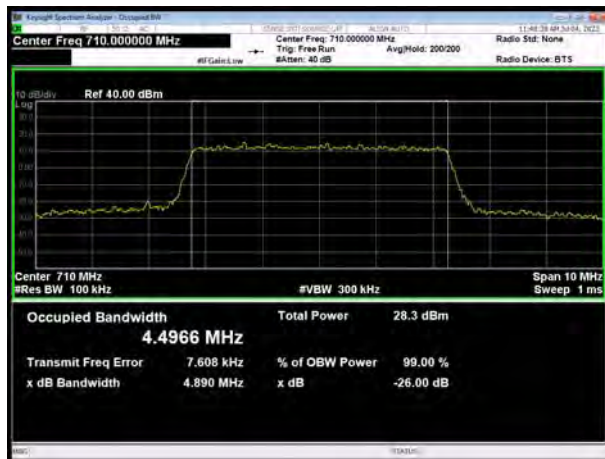
LTE Band 17 16QAM 5MHz CH-Low



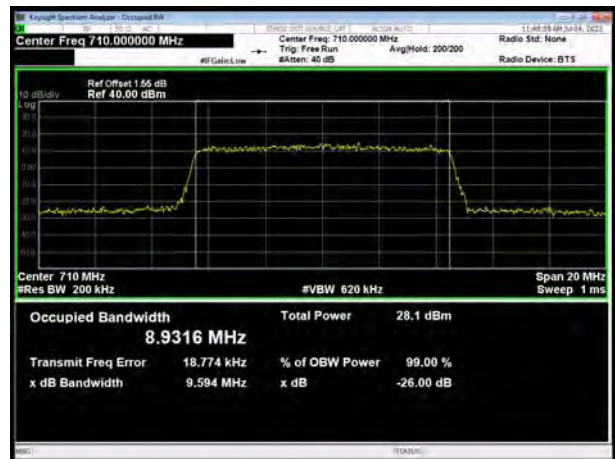
LTE Band 17 16QAM 10MHz CH-Low



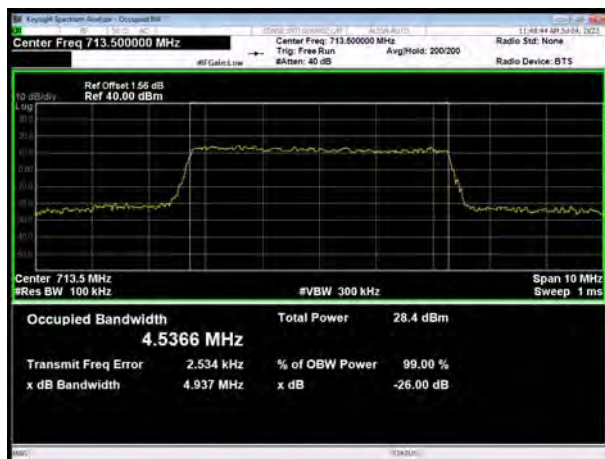
LTE Band 17 16QAM 5MHz CH-Middle



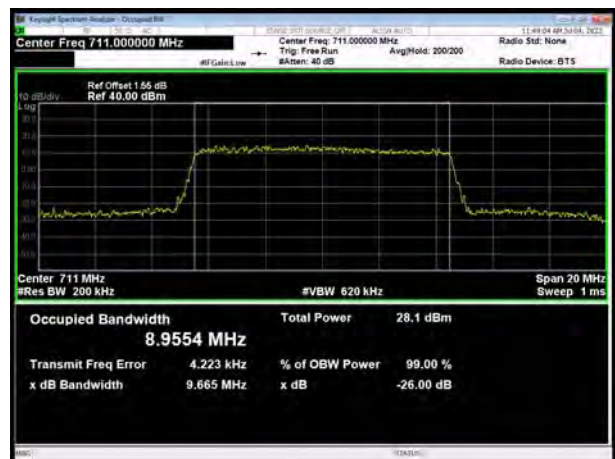
LTE Band 17 16QAM 10MHz CH-Middle



LTE Band 17 16QAM 5MHz CH-High

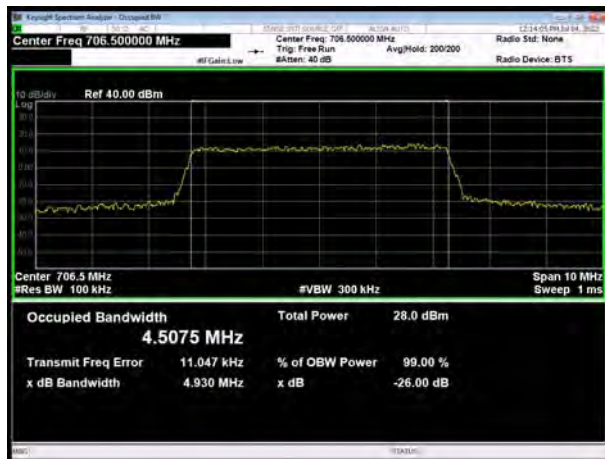


LTE Band 17 16QAM 10MHz CH-High

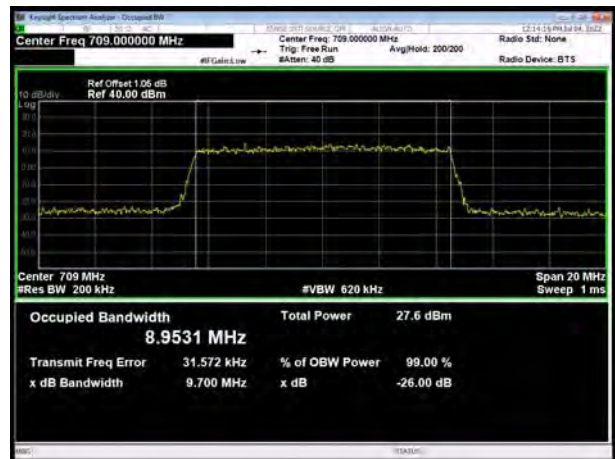




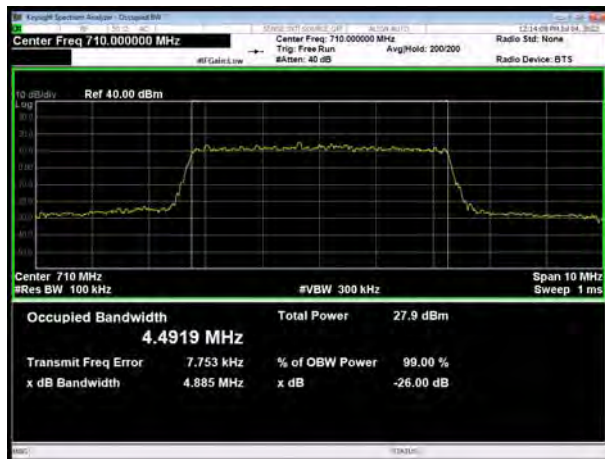
LTE Band 17 64QAM 5MHz CH-Low



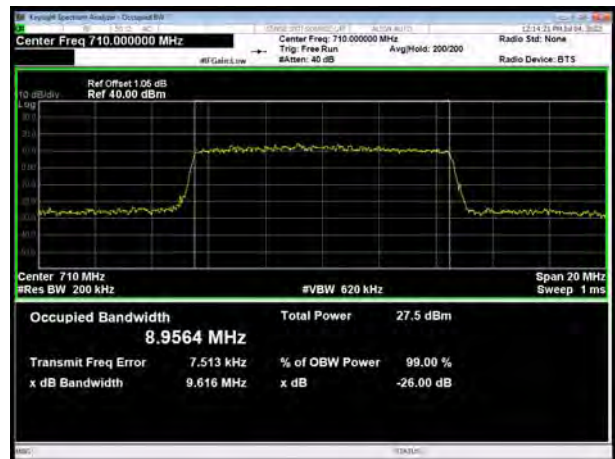
LTE Band 17 64QAM 10MHz CH-Low



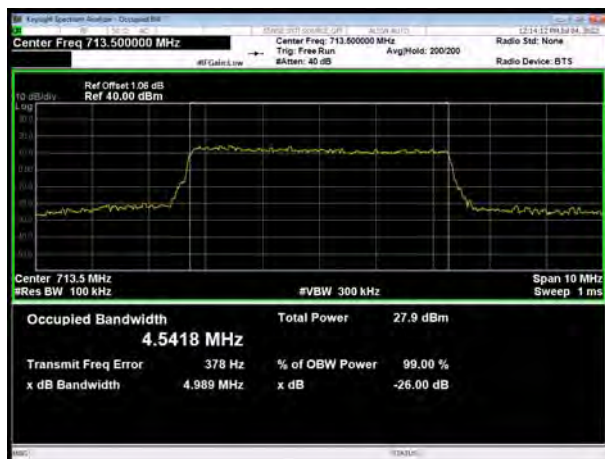
LTE Band 17 64QAM 5MHz CH-Middle



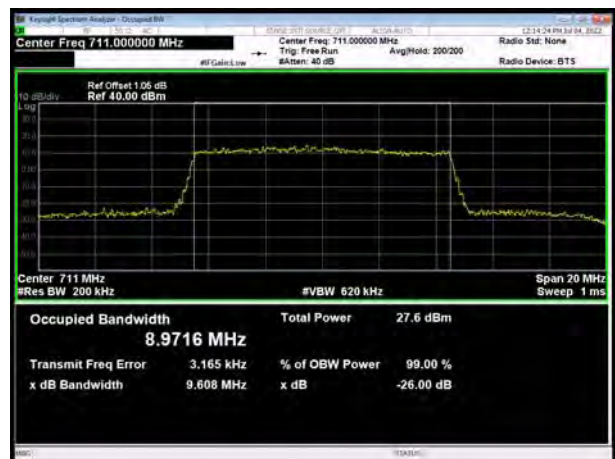
LTE Band 17 64QAM 10MHz CH-Middle



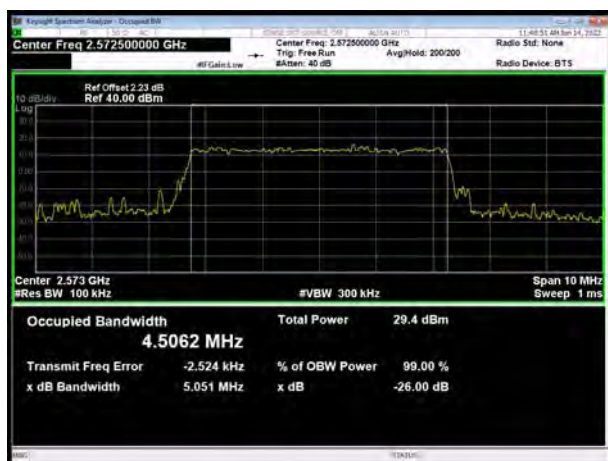
LTE Band 17 64QAM 5MHz CH-High



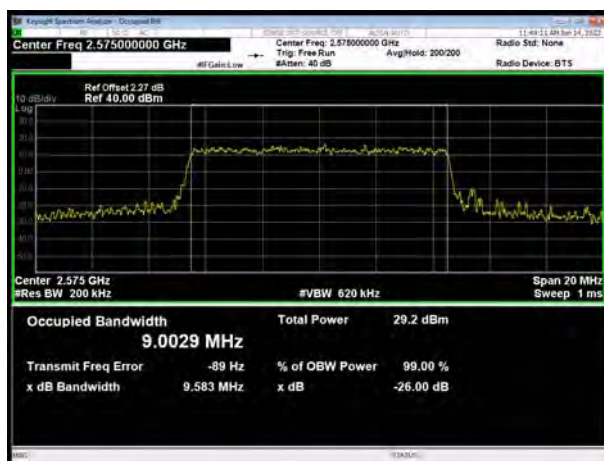
LTE Band 17 64QAM 10MHz CH-High



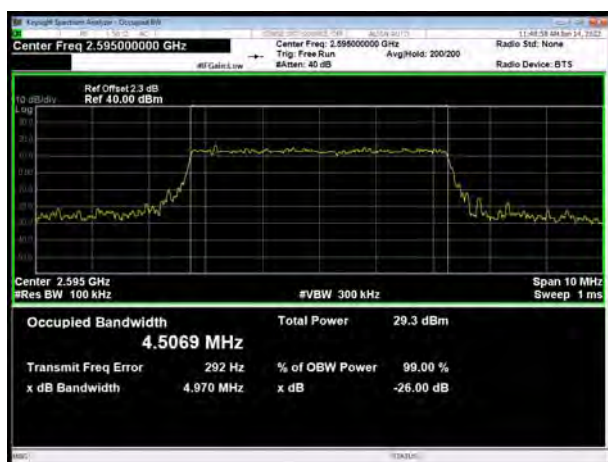
LTE Band 38 QPSK 5MHz CH-Low



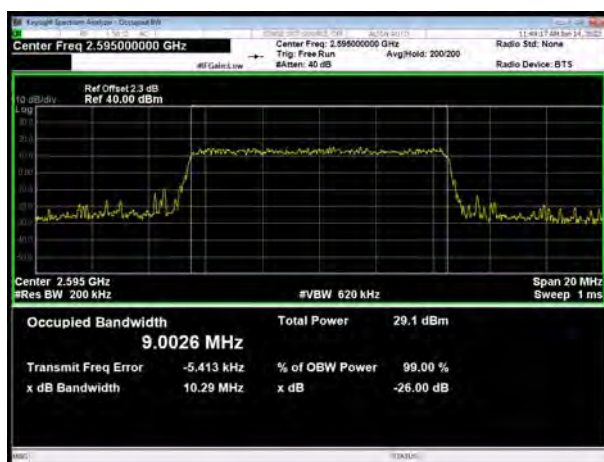
LTE Band 38 QPSK 10MHz CH-Low



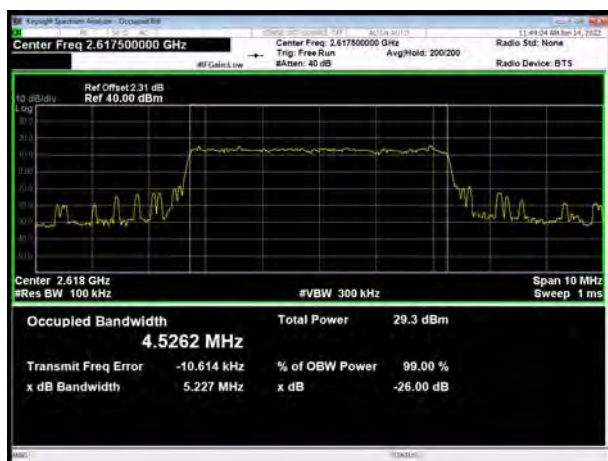
LTE Band 38 QPSK 5MHz CH-Middle



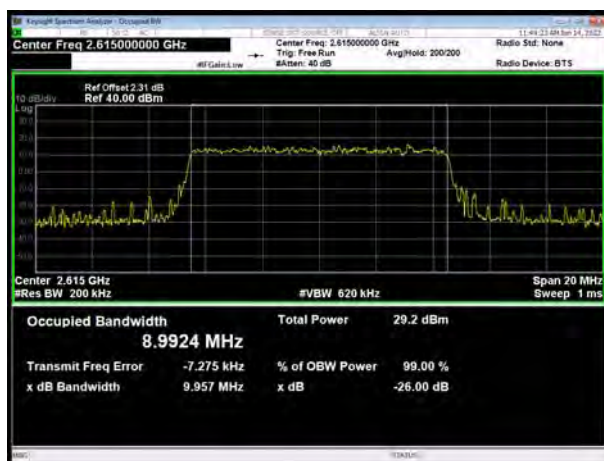
LTE Band 38 QPSK 10MHz CH-Middle



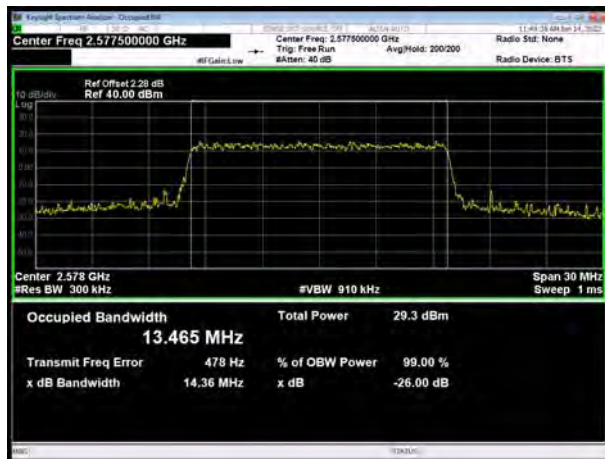
LTE Band 38 QPSK 5MHz CH-High



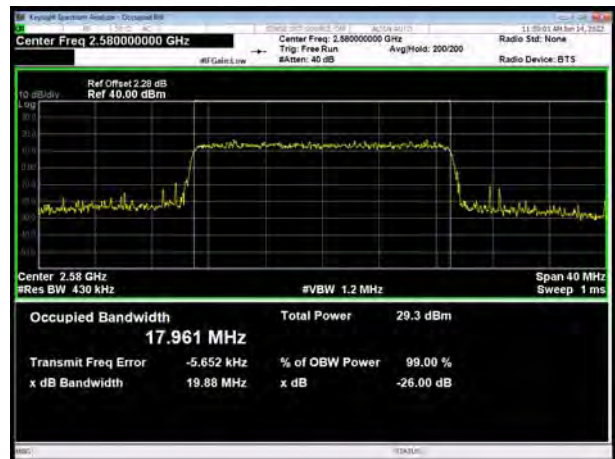
LTE Band 38 QPSK 10MHz CH-High



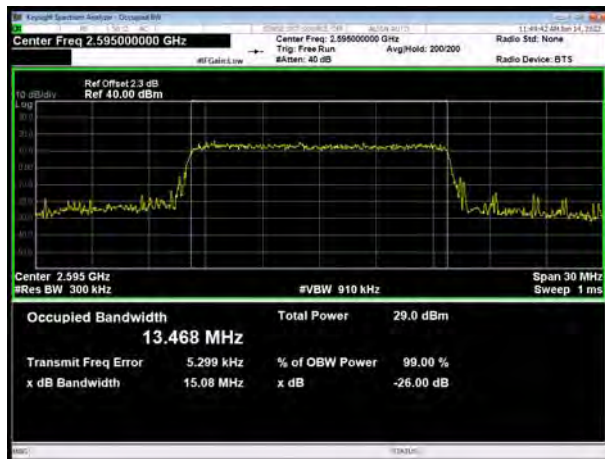
LTE Band 38 QPSK 15MHz CH-Low



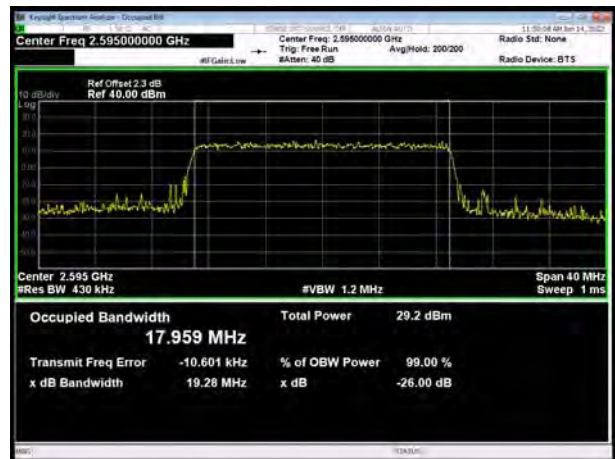
LTE Band 38 QPSK 20MHz CH-Low



LTE Band 38 QPSK 15MHz CH-Middle



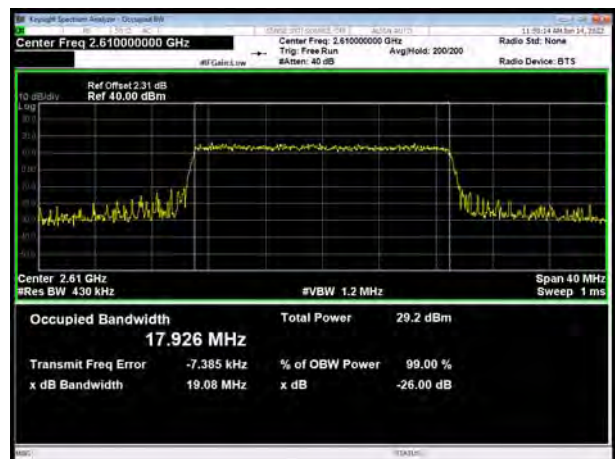
LTE Band 38 QPSK 20MHz CH-Middle



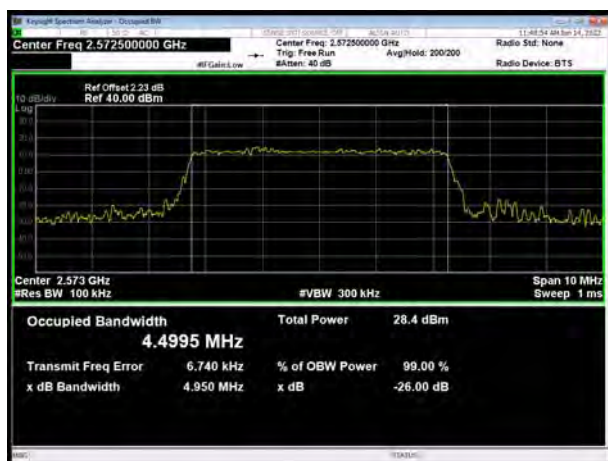
LTE Band 38 QPSK 15MHz CH-High



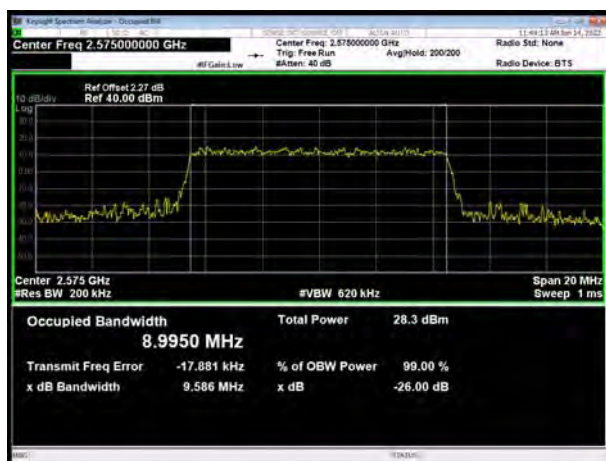
LTE Band 38 QPSK 20MHz CH-High



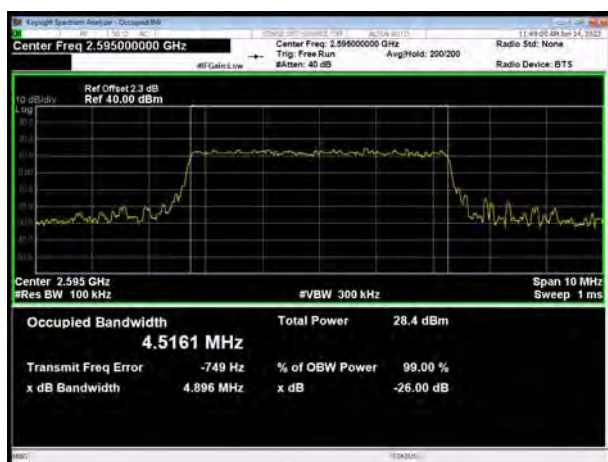
LTE Band 38 16QAM 5MHz CH-Low



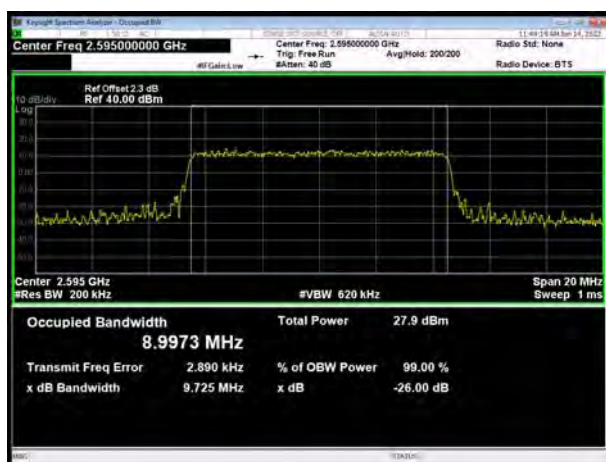
LTE Band 38 16QAM 10MHz CH-Low



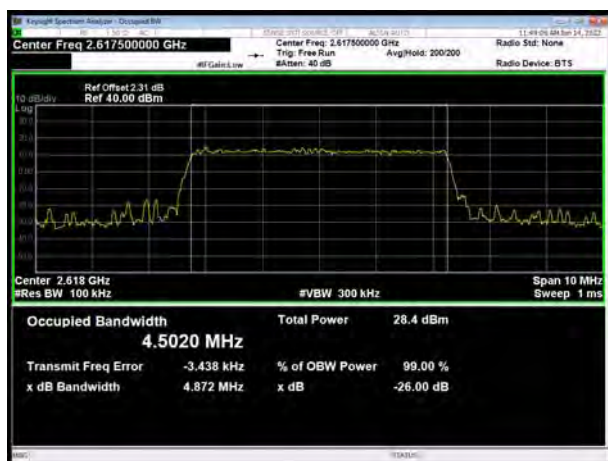
LTE Band 38 16QAM 5MHz CH-Middle



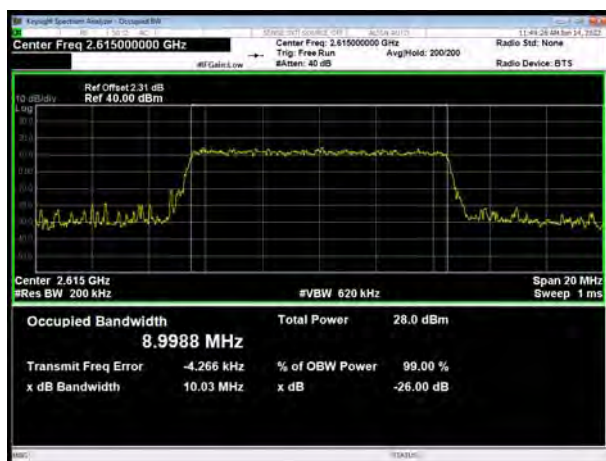
LTE Band 38 16QAM 10MHz CH-Middle



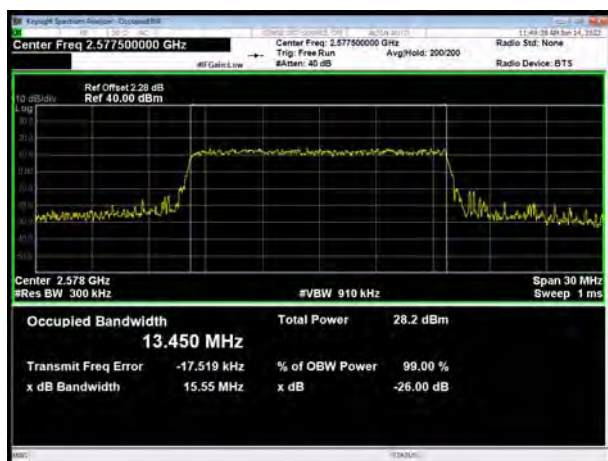
LTE Band 38 16QAM 5MHz CH-High



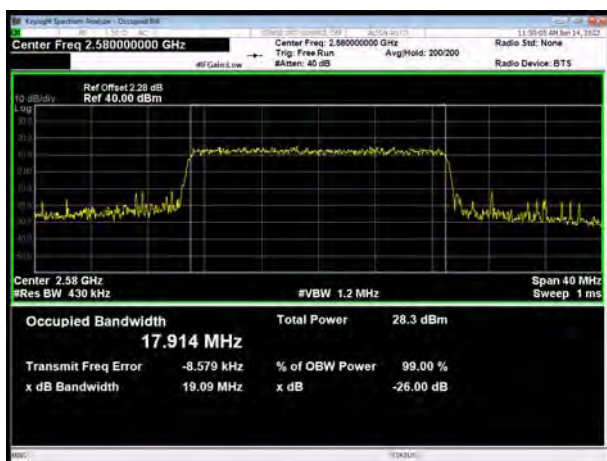
LTE Band 38 16QAM 10MHz CH-High



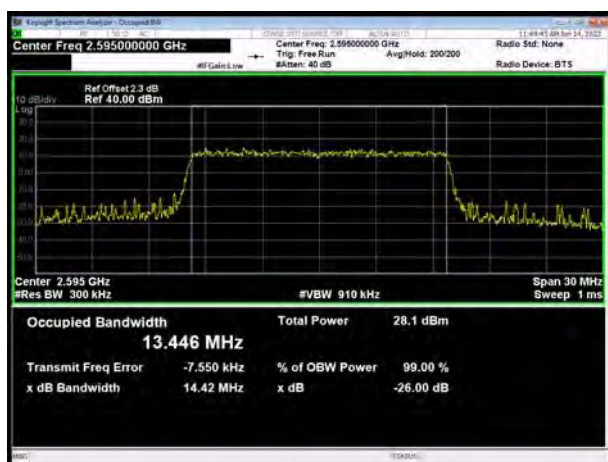
LTE Band 38 16QAM 15MHz CH-Low



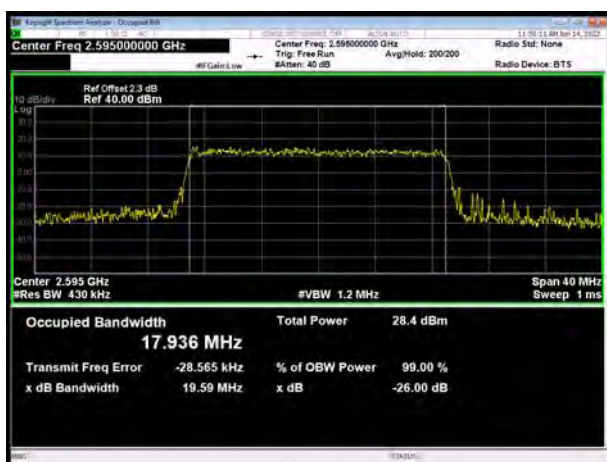
LTE Band 38 16QAM 20MHz CH-Low



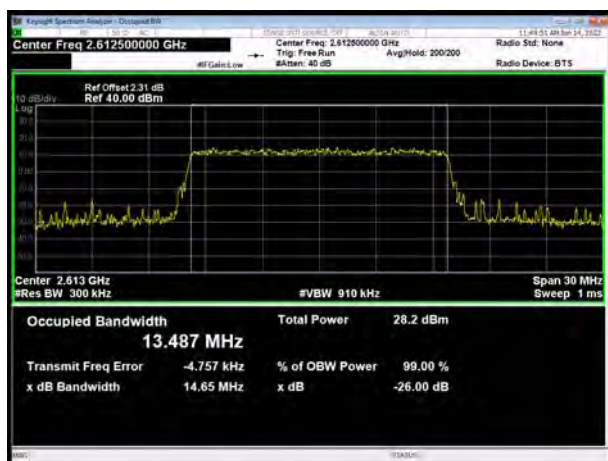
LTE Band 38 16QAM 15MHz CH-Middle



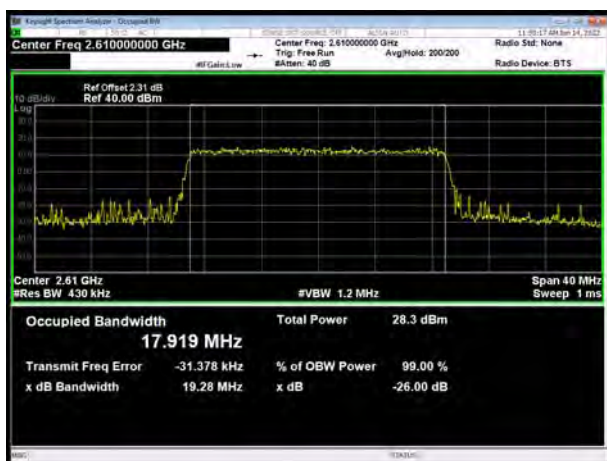
LTE Band 38 16QAM 20MHz CH-Middle



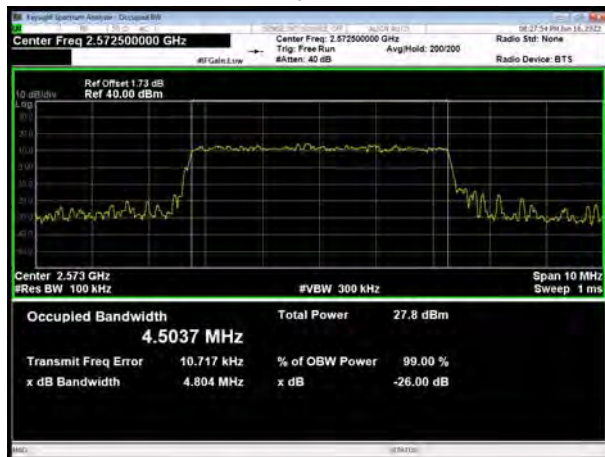
LTE Band 38 16QAM 15MHz CH-High



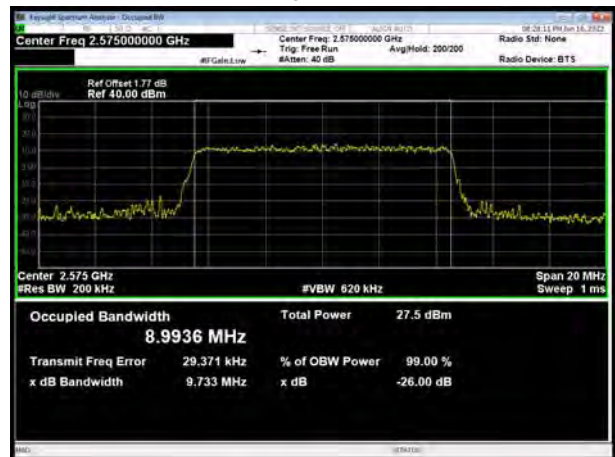
LTE Band 38 16QAM 20MHz CH-High



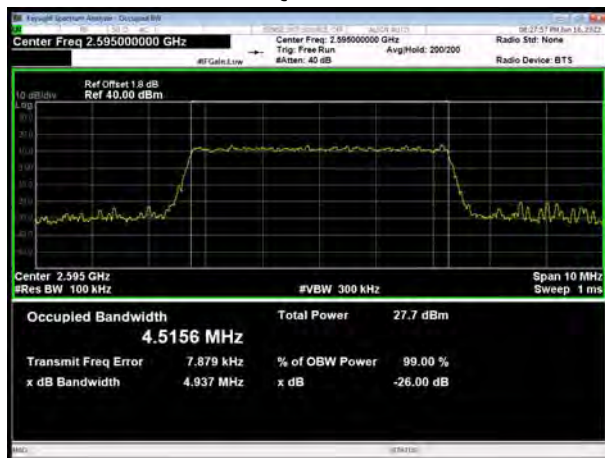
LTE Band 38 64QAM 5MHz CH-Low



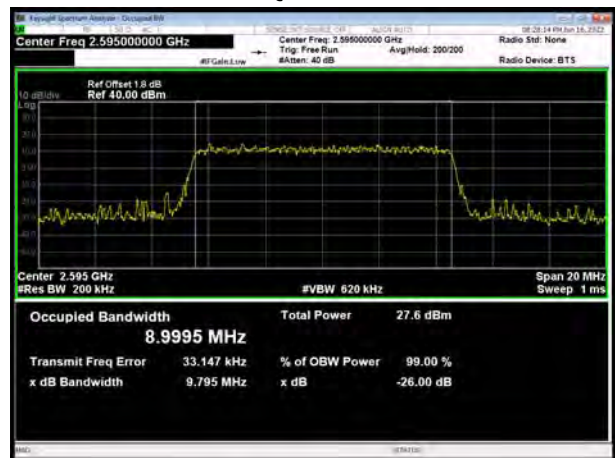
LTE Band 38 64QAM 10MHz CH-Low



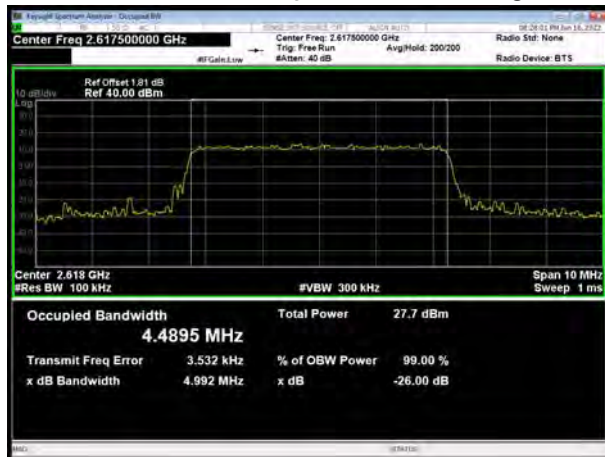
LTE Band 38 64QAM 5MHz CH-Middle



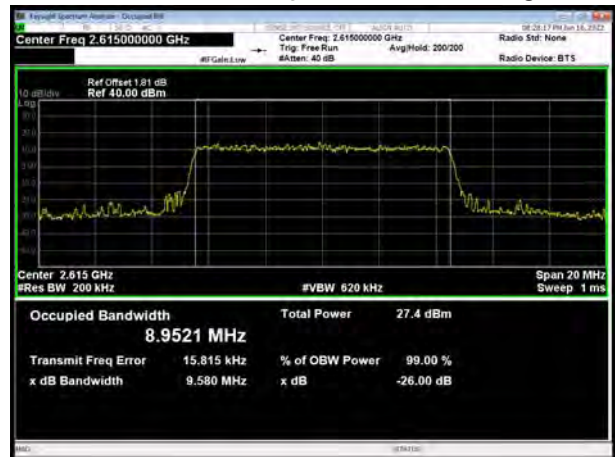
LTE Band 38 64QAM 10MHz CH-Middle



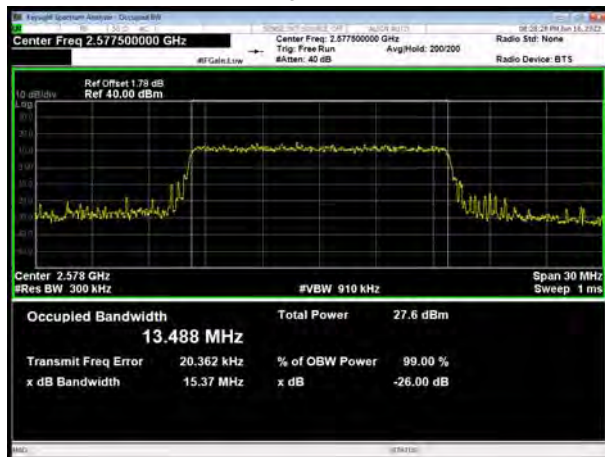
LTE Band 38 64QAM 5MHz CH-High



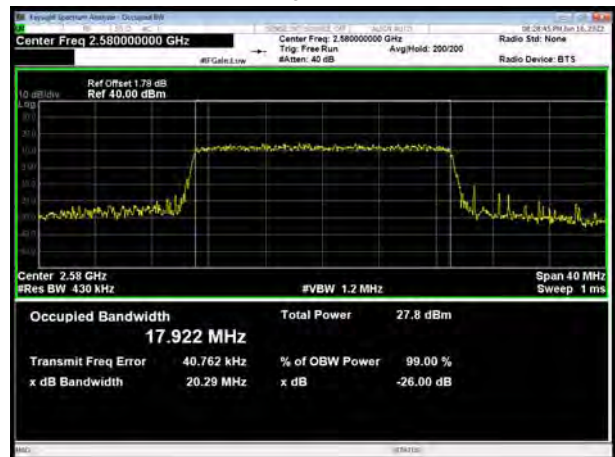
LTE Band 38 64QAM 10MHz CH-High



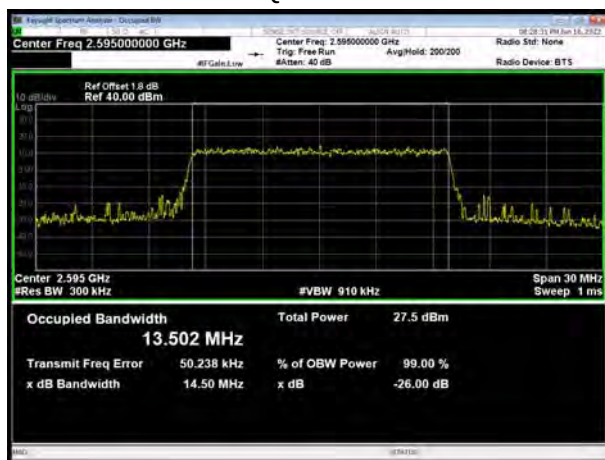
LTE Band 38 64QAM 15MHz CH-Low



LTE Band 38 64QAM 20MHz CH-Low



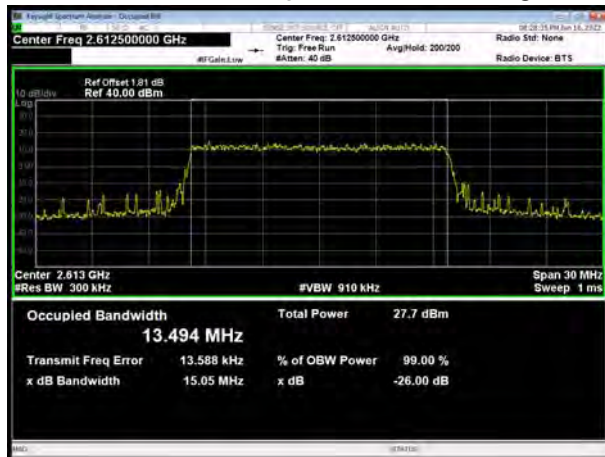
LTE Band 38 64QAM 15MHz CH-Middle



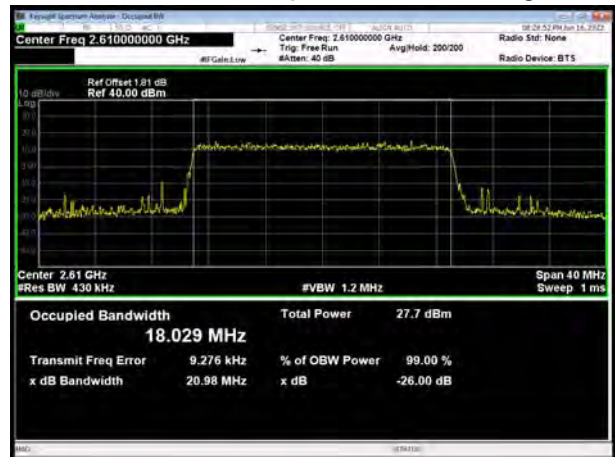
LTE Band 38 64QAM 20MHz CH-Middle



LTE Band 38 64QAM 15MHz CH-High

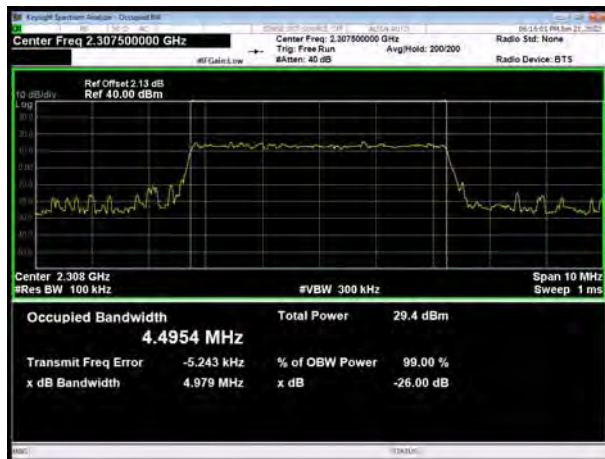


LTE Band 38 64QAM 20MHz CH-High

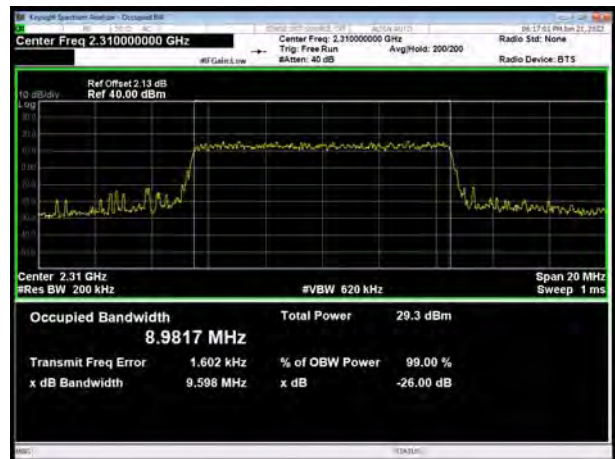




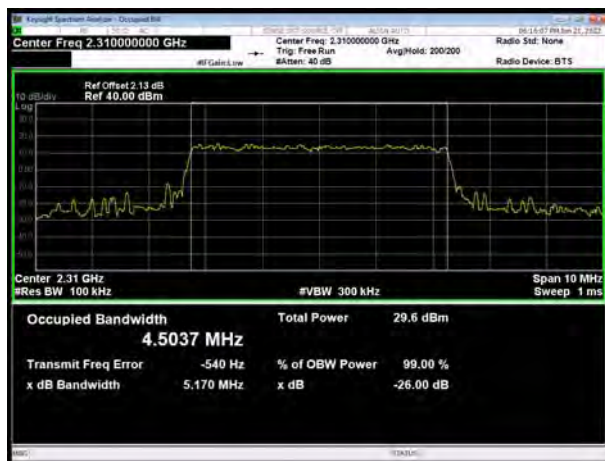
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



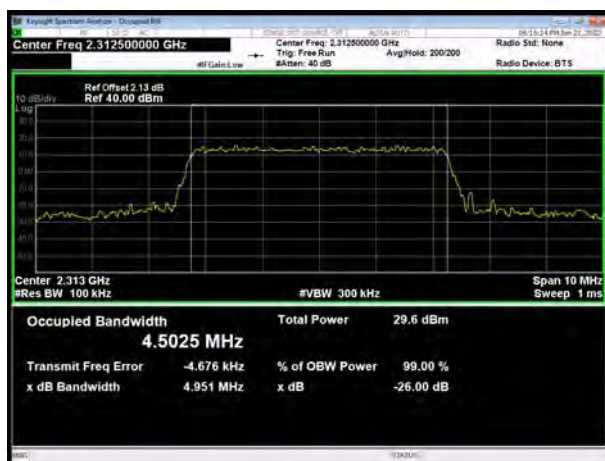
LTE Band 40 Subset 1 QPSK 10MHz



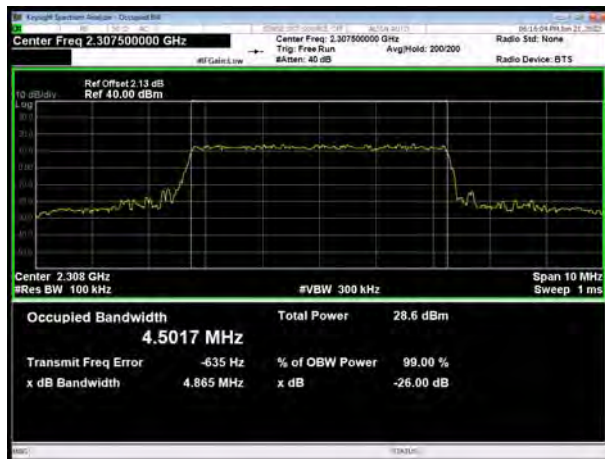
LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



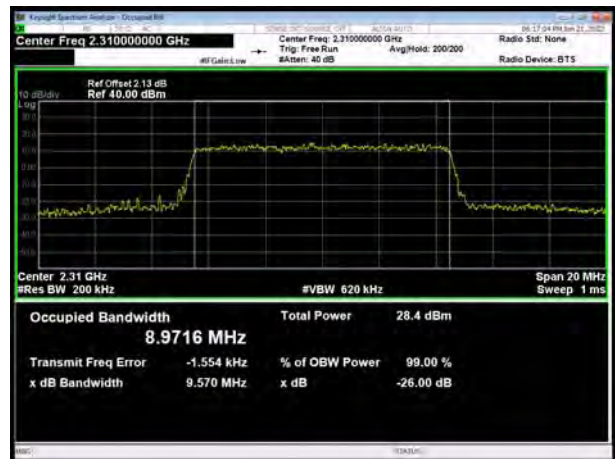
LTE Band 40 Subset 1 QPSK 5MHz CH-High



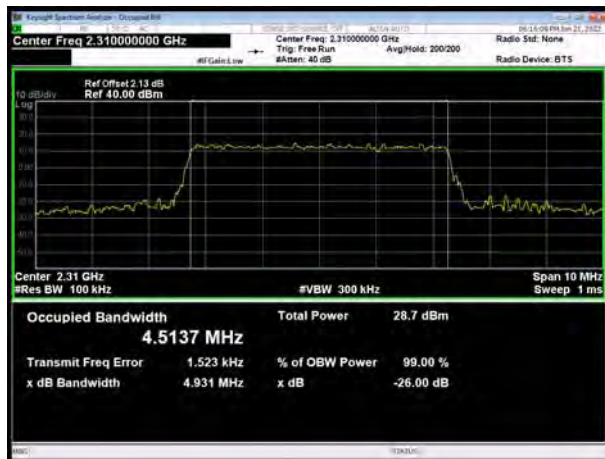
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



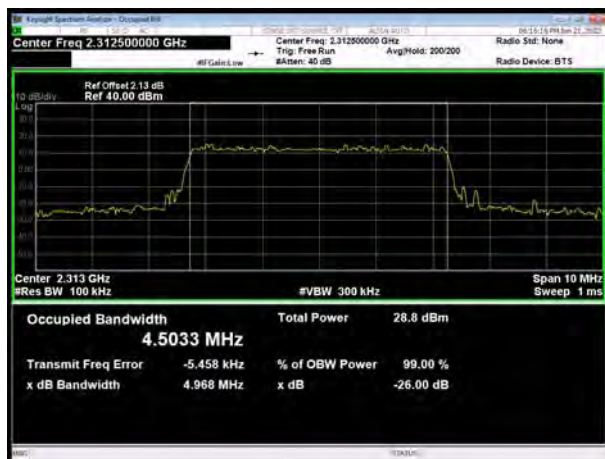
LTE Band 40 Subset 1 16QAM 10MHz



LTE Band 40 Subset 1 16QAM 5MHz CH-Middle

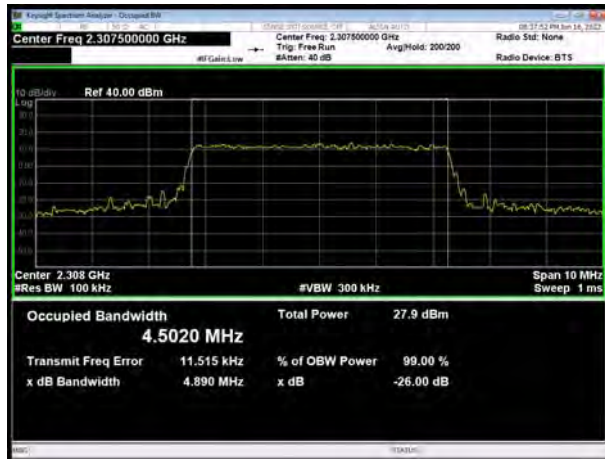


LTE Band 40 Subset 1 16QAM 5MHz CH-High

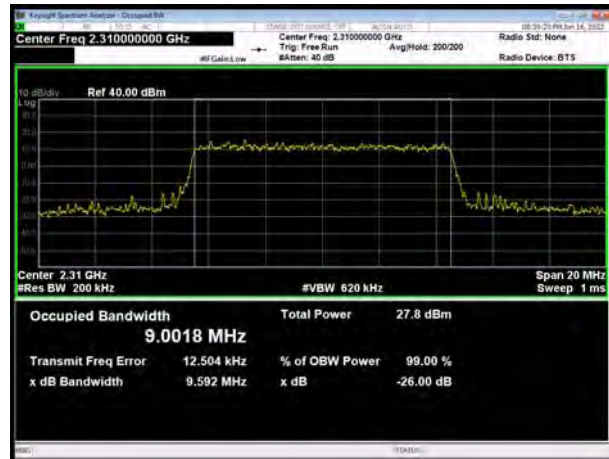




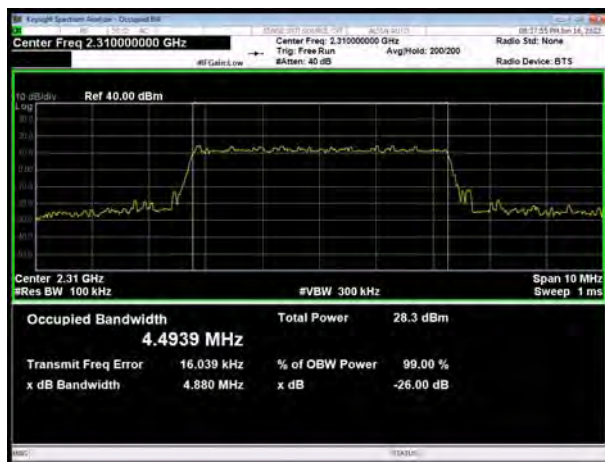
LTE Band 40 Subset 1 64QAM 5MHz CH-Low



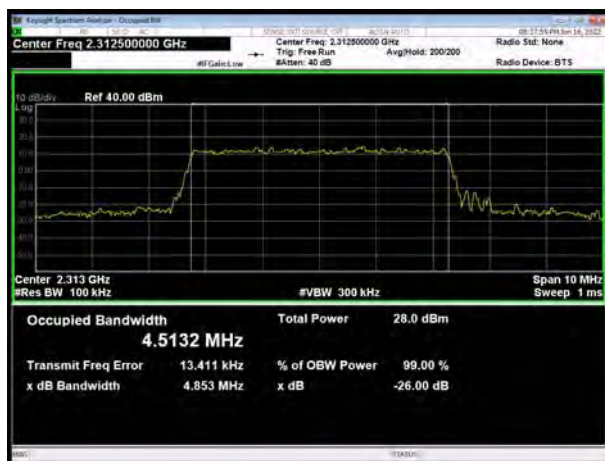
LTE Band 40 Subset 1 64QAM 10MHz



LTE Band 40 Subset 1 64QAM 5MHz CH-Middle

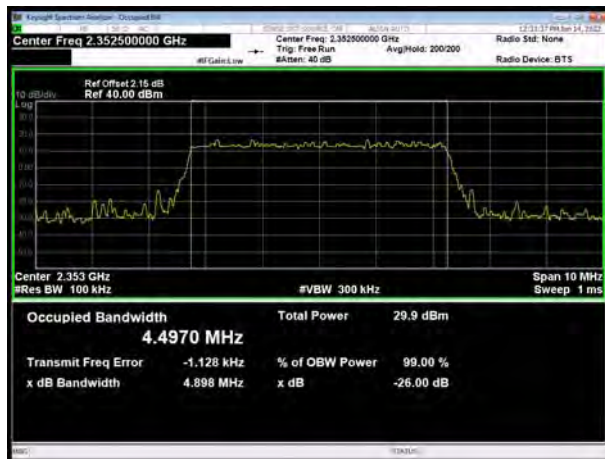


LTE Band 40 Subset 1 64QAM 5MHz CH-High

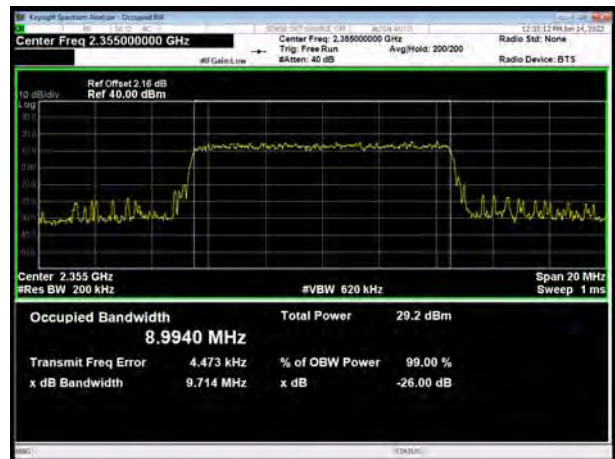




LTE Band 40 Subset 2 QPSK 5MHz CH-Low



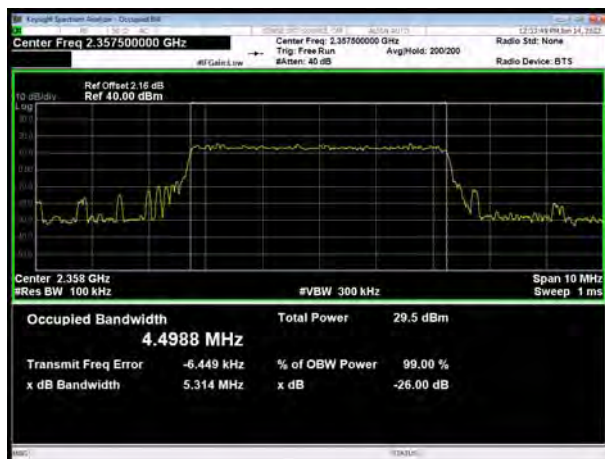
LTE Band 40 Subset 2 QPSK 10MHz



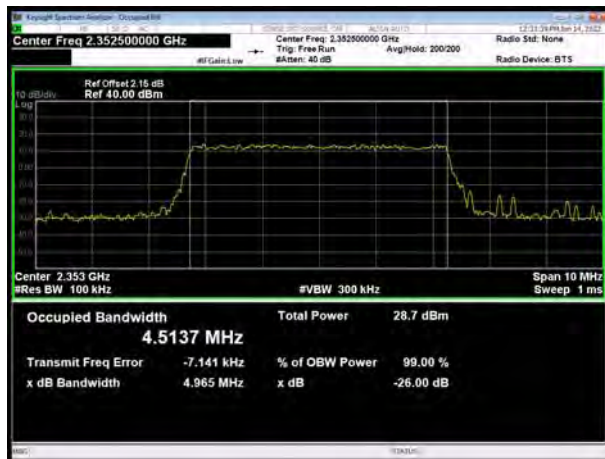
LTE Band 40 Subset 2 QPSK 5MHz CH-Middle



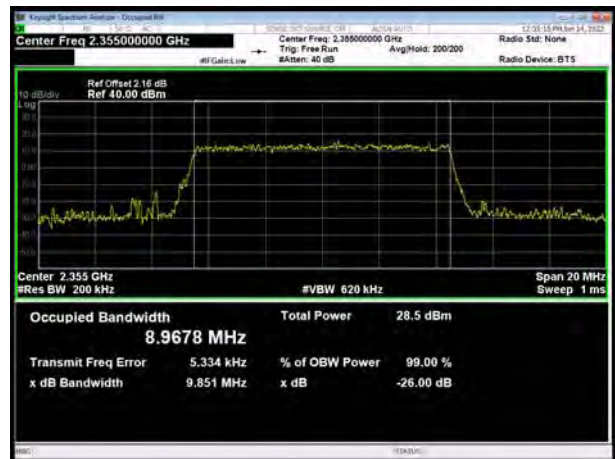
LTE Band 40 Subset 2 QPSK 5MHz CH-High



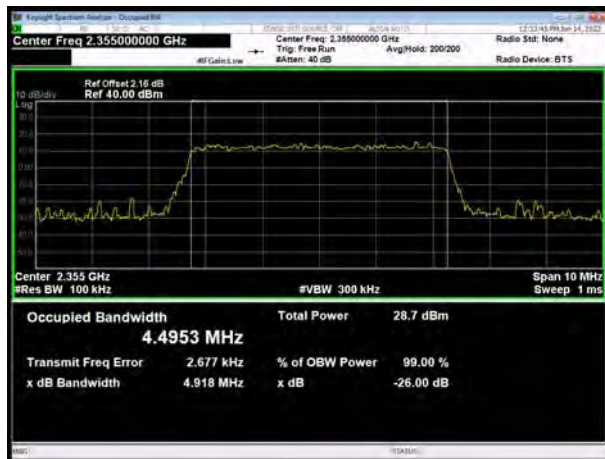
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



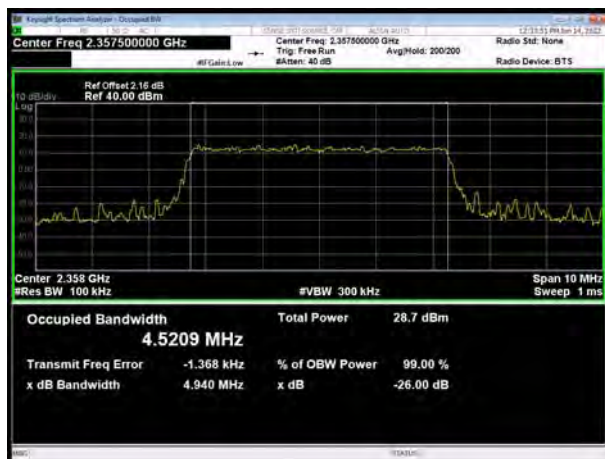
LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle

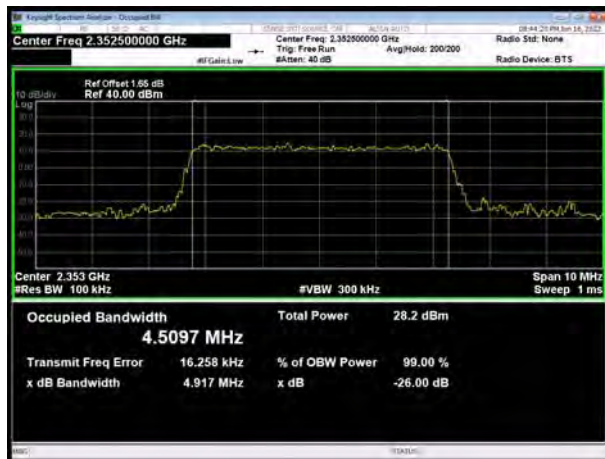


LTE Band 40 Subset 2 16QAM 5MHz CH-High

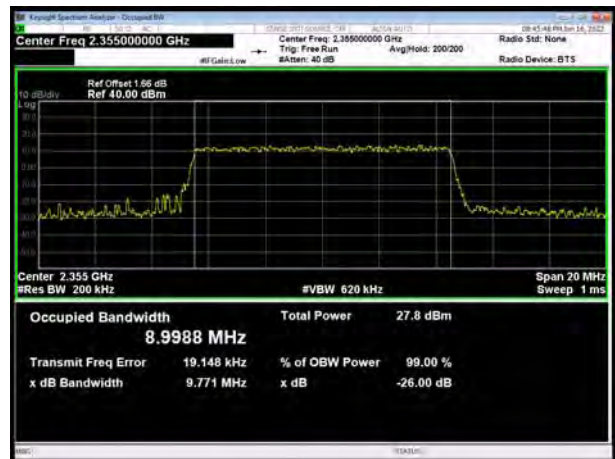




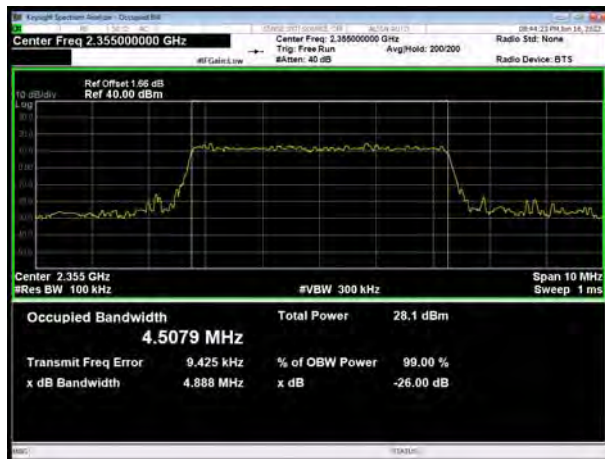
LTE Band 40 Subset 2 64QAM 5MHz CH-Low



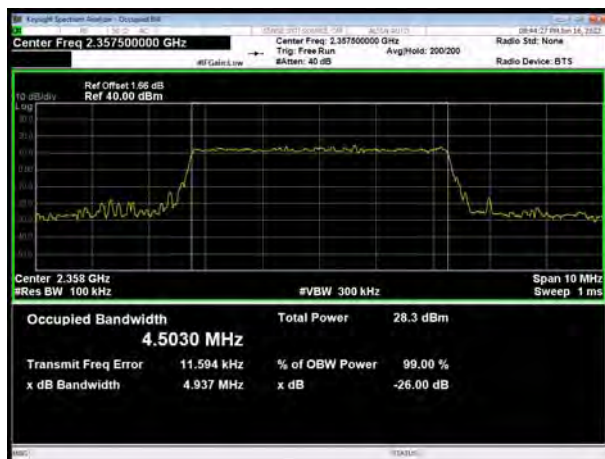
LTE Band 40 Subset 2 64QAM 10MHz



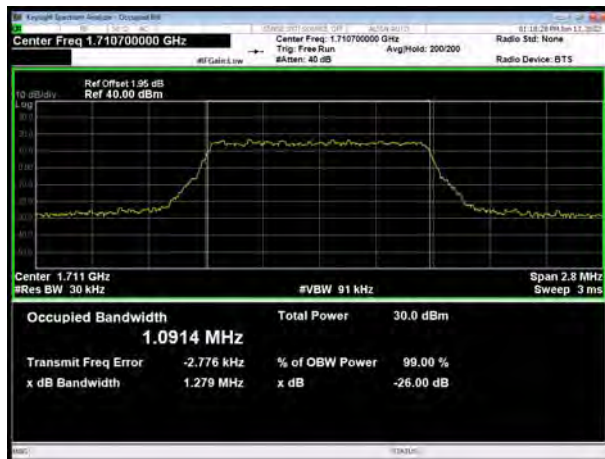
LTE Band 40 Subset 2 64QAM 5MHz CH-Middle



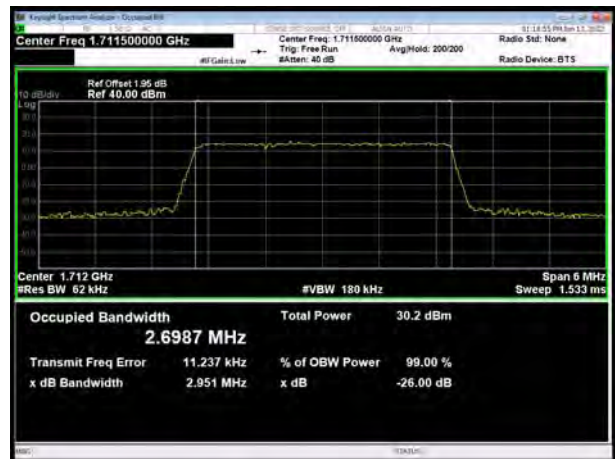
LTE Band 40 Subset 2 64QAM 5MHz CH-High



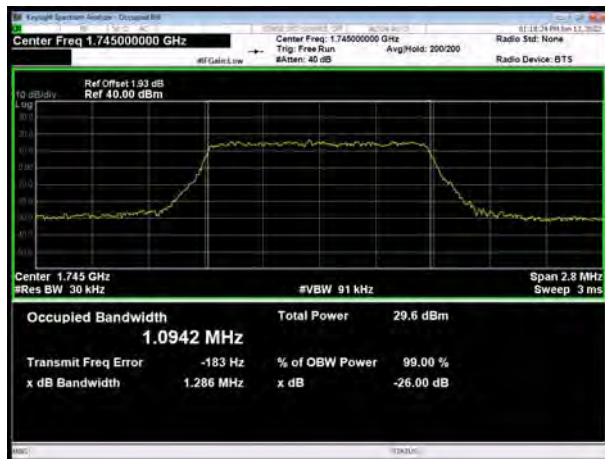
LTE Band 66 QPSK 1.4MHz CH-Low



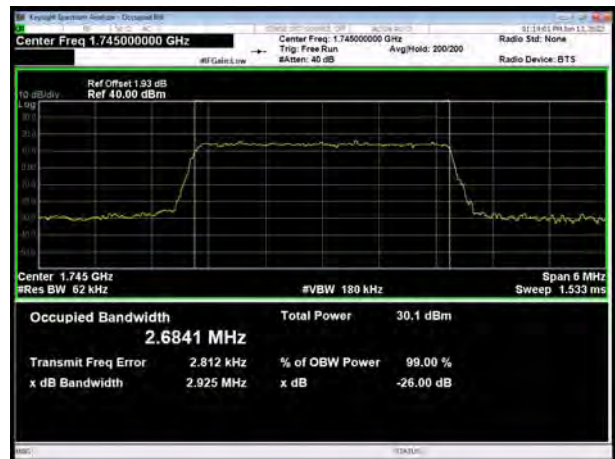
LTE Band 66 QPSK 3MHz CH-Low



LTE Band 66 QPSK 1.4MHz CH-Middle



LTE Band 66 QPSK 3MHz CH-Middle



LTE Band 66 QPSK 1.4MHz CH-High



LTE Band 66 QPSK 3MHz CH-High

