



# FCC TEST REPORT (PART 27)

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

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	25053PC47G
FCC ID	2AFZZPC47G
Date of tests	Feb. 13, 2025-Mar. 26, 2025

The tests have been carried out according to the requirements of the following standard:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <b>FCC Part 27</b>        | <input checked="" type="checkbox"/> <b>ANSI/TIA/EIA-603-E</b> |
| <input checked="" type="checkbox"/> <b>ANSI/TIA/EIA-603-D</b> | <input checked="" type="checkbox"/> <b>ANSI C63.26-2015</b>   |
| <input checked="" type="checkbox"/> <b>FCC Part 2</b>         |   |

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
Date: Mar. 26, 2025	Date: Mar. 26, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSZ-QBJ2501200112RF04	Original release	Mar. 26, 2025



# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(d)(4) §27.50(k)(3) §27.50(h)(2)	Equivalent Isotropically Radiated Power (Band 4) (Band 38) (Band 41) (Band 42) (Band 66)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(h) §27.53(n)(2) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 4) (Band 38) (Band 41) (Band 42) (Band 66)	Compliance	A
§2.1051 §27.53(h) §27.53(n)(2) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 4) (Band 38) (Band 41) (Band 42) (Band 66)	Compliance	A
§2.1053 §27.53(h) §27.53(n)(2) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 4) (Band 38) (Band 41) (Band 42) (Band 66)	Compliance	A
§27.50(d)(5) §27.50(k)(4)	Peak to average ratio	Compliance	A

\* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

**\*Test Lab Information Reference**

**Lab A:**

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

**Lab Address:**

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

**Accredited Test Lab Cert 6613.01**

**The FCC Site Registration No. is 434559; The Designation No. is CN1325.**

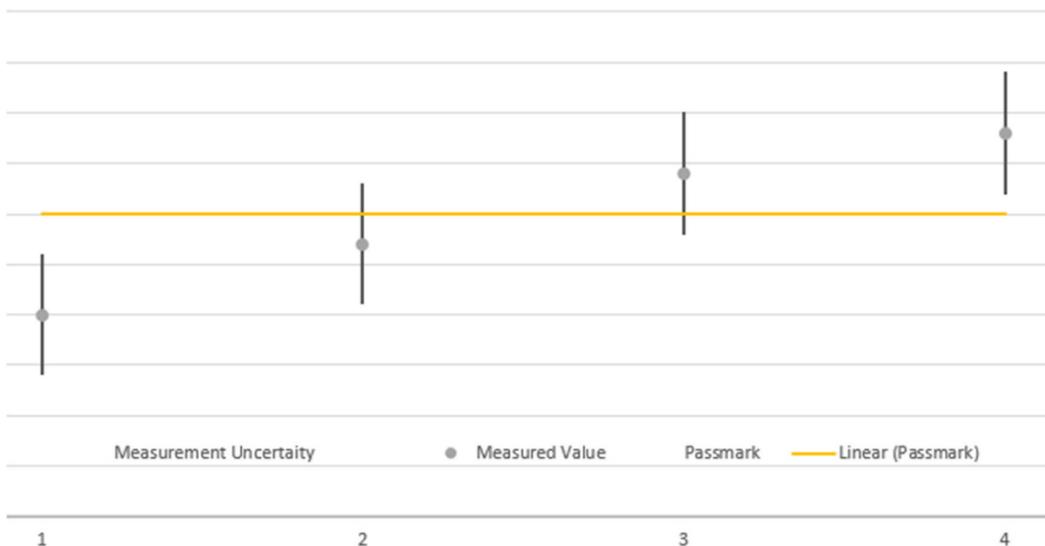


### 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,24	Aug.28,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.15,24	Sep.14,26
Vector Signal Generator	R&S	SMBV100B	102176	Feb.15,24	Feb.14,26
Signal Generator	R&S	SMB100A	182185	Feb.15,24	Feb.14,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Feb.24,24	Feb.23,26
EMI TEST Receiver	R&S	ESW44	101973	Feb.24,24	Feb.23,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.27,24	Feb.26,26
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.22,24	Feb.21,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.21,24	Aug.20,26
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.26,24	Jun.25,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Sep.30,24	Sep.39,26
DC Source	HYELEC	HY3010B	551016	Aug.30,24	Aug.29,26
Hygrothermograph	DELI	20210528	SZ014	Sep.05,24	Sep.04,26
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.26,24	Oct.25,25
CABLE	R&S	W12.14	N/A	Apr.26,24	Oct.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,24	Oct.25,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,24	Oct.25,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

### NOTE:

1. The calibration interval of the above test instruments is 6 months or 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT*</b>	Mobile Phone	
<b>BRAND NAME*</b>	POCO	
<b>MODEL NAME*</b>	25053PC47G	
<b>NOMINAL VOLTAGE*</b>	5/3.6-20V dc (adapter or host equipment) 3.93Vdc (Li-ion, battery)ss	
<b>MODULATION TECHNOLOGY</b>	<b>LTE</b>	QPSK, 16QAM, 64QAM, 256QAM
<b>FREQUENCY RANGE</b>	<b>LTE Band 4 Channel Bandwidth: 1.4MHz</b>	1710.7MHz ~ 1754.3MHz
	<b>LTE Band 4 Channel Bandwidth: 3MHz</b>	1711.5MHz ~ 1753.5MHz
	<b>LTE Band 4 Channel Bandwidth: 5MHz</b>	1712.5MHz ~ 1752.5MHz
	<b>LTE Band 4 Channel Bandwidth: 10MHz</b>	1715MHz ~ 1750MHz
	<b>LTE Band 4 Channel Bandwidth: 15MHz</b>	1717.5MHz ~ 1747.5 MHz
	<b>LTE Band 4 Channel Bandwidth: 20MHz</b>	1720MHz ~ 1745MHz
	<b>LTE Band 38 Channel Bandwidth: 5MHz</b>	2572.5MHz ~ 2617.5MHz
	<b>LTE Band 38 Channel Bandwidth: 10MHz</b>	2575MHz ~ 2615MHz
	<b>LTE Band 38 Channel Bandwidth: 15MHz</b>	2577.5MHz ~ 2612.5MHz
	<b>LTE Band 38 Channel Bandwidth: 20MHz</b>	2580MHz ~ 2610MHz
	<b>LTE Band 41 Channel Bandwidth: 5MHz</b>	2498.5MHz ~ 2687.5MHz
	<b>LTE Band 41 Channel Bandwidth: 10MHz</b>	2501MHz ~ 2685MHz
	<b>LTE Band 41 Channel Bandwidth: 15MHz</b>	2503.5MHz ~ 2682.5MHz
	<b>LTE Band 41 Channel Bandwidth: 20MHz</b>	2506MHz ~ 2680MHz
	<b>LTE Band 42 Channel Bandwidth: 5MHz</b>	3452.5 MHz ~ 3547.5MHz
	<b>LTE Band 42 Channel Bandwidth: 10MHz</b>	3455MHz ~ 3545MHz
	<b>LTE Band 42 Channel Bandwidth: 15MHz</b>	3457.5MHz ~ 3542.5MHz
	<b>LTE Band 42 Channel Bandwidth: 20MHz</b>	3460MHz ~ 3540MHz
<b>LTE Band 66 Channel Bandwidth: 1.4MHz</b>	1710.7MHz ~ 1779.3MHz	



	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz
	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz
<b>MAX. EIRP POWER</b>	LTE Band 4 Channel Bandwidth: 1.4MHz	230.67mW
	LTE Band 4 Channel Bandwidth: 3MHz	232.81mW
	LTE Band 4 Channel Bandwidth: 5MHz	226.46mW
	LTE Band 4 Channel Bandwidth: 10MHz	232.27mW
	LTE Band 4 Channel Bandwidth: 15MHz	229.09mW
	LTE Band 4 Channel Bandwidth: 20MHz	233.88mW
	LTE Band 38 Channel Bandwidth: 5MHz	250.61mW
	LTE Band 38 Channel Bandwidth: 10MHz	253.51mW
	LTE Band 38 Channel Bandwidth: 15MHz	250.61mW
	LTE Band 38 Channel Bandwidth: 20MHz	255.86mW
	LTE Band 41 Channel Bandwidth: 5MHz	303.39mW
	LTE Band 41 Channel Bandwidth: 10MHz	299.23mW
	LTE Band 41 Channel Bandwidth: 15MHz	305.49mW
	LTE Band 41 Channel Bandwidth: 20MHz	306.20mW
	LTE Band 42 Channel Bandwidth: 5MHz	341.19mW
	LTE Band 42 Channel Bandwidth: 10MHz	328.10mW
	LTE Band 42 Channel Bandwidth: 15MHz	334.97mW
	LTE Band 42 Channel Bandwidth: 20MHz	342.77mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	235.50mW
	LTE Band 66 Channel Bandwidth: 3MHz	238.23mW
LTE Band 66 Channel Bandwidth: 5MHz	239.33mW	
LTE Band 66 Channel Bandwidth: 10MHz	238.78mW	



	LTE Band 66 Channel Bandwidth: 15MHz		239.33mW	
	LTE Band 66 Channel Bandwidth: 20MHz		244.34mW	
<b>EMISSION DESIGNATOR</b>	LTE Band 41 Channel Bandwidth: 5MHz		QPSK: 4M48G7D 16QAM: 4M49W7D	
	LTE Band 41 Channel Bandwidth: 10MHz		QPSK: 8M96G7D 16QAM: 8M97W7D	
	LTE Band 41 Channel Bandwidth: 15MHz		QPSK: 13M5G7D 16QAM: 13M6W7D	
	LTE Band 41 Channel Bandwidth: 20MHz		QPSK: 17M9G7D 16QAM: 17M9W7D	
	LTE Band 42 Channel Bandwidth: 5MHz		QPSK: 4M49G7D 16QAM: 4M48W7D	
	LTE Band 42 Channel Bandwidth: 10MHz		QPSK: 8M98G7D 16QAM: 8M97W7D	
	LTE Band 42 Channel Bandwidth: 15MHz		QPSK: 13M5G7D 16QAM: 13M5W7D	
	LTE Band 42 Channel Bandwidth: 20MHz		QPSK: 17M9G7D 16QAM: 17M9W7D	
	LTE Band 66 Channel Bandwidth: 1.4MHz		QPSK: 1M10G7D 16QAM: 1M09W7D	
	LTE Band 66 Channel Bandwidth: 3MHz		QPSK: 2M70G7D 16QAM: 2M70W7D	
	LTE Band 66 Channel Bandwidth: 5MHz		QPSK: 4M49G7D 16QAM: 4M49W7D	
	LTE Band 66 Channel Bandwidth: 10MHz		QPSK: 8M96G7D 16QAM: 8M96W7D	
	LTE Band 66 Channel Bandwidth: 15MHz		QPSK: 13M5G7D 16QAM: 13M5W7D	
	LTE Band 66 Channel Bandwidth: 20MHz		QPSK: 17M9G7D 16QAM: 17M9W7D	
	<b>ANTENNA TYPE*</b>	PIFA		
	<b>ANTENNA GAIN</b>	LTE B4	ANT0	-3.81dBi
			ANT2	-1.08dBi
			ANT3	-2.08dBi
ANT4			-4.27dBi	
LTE B38		ANT0	-3.24dBi	
		ANT2	-1.55dBi	
		ANT3	-2.72dBi	
		ANT4	0.09dBi	



	LTE B41	ANT0	-3.04dBi
		ANT2	-1.55dBi
		ANT3	-2.72dBi
		ANT4	0.09dBi
	LTE B42	ANT1	-0.73dBi
		ANT2	-1.2dBi
		ANT3	0.98dBi
		ANT7	-1.9dBi
	LTE B66	ANT0	-3.23dBi
		ANT2	-1.08dBi
		ANT3	-2.08dBi
		ANT4	-3.07dBi
<b>HW VERSION*</b>	13510O10U		
<b>SW VERSION*</b>	Xiaomi HyperOS 2.0		
<b>I/O PORTS*</b>	Refer to user's manual		
<b>CABLE SUPPLIED*</b>	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter		
<b>EXTREME TEMPERATURE*</b>	0°C-40°C		
<b>EXTREME VOLTAGE*</b>	3.8V-4.3V		

**NOTE:**

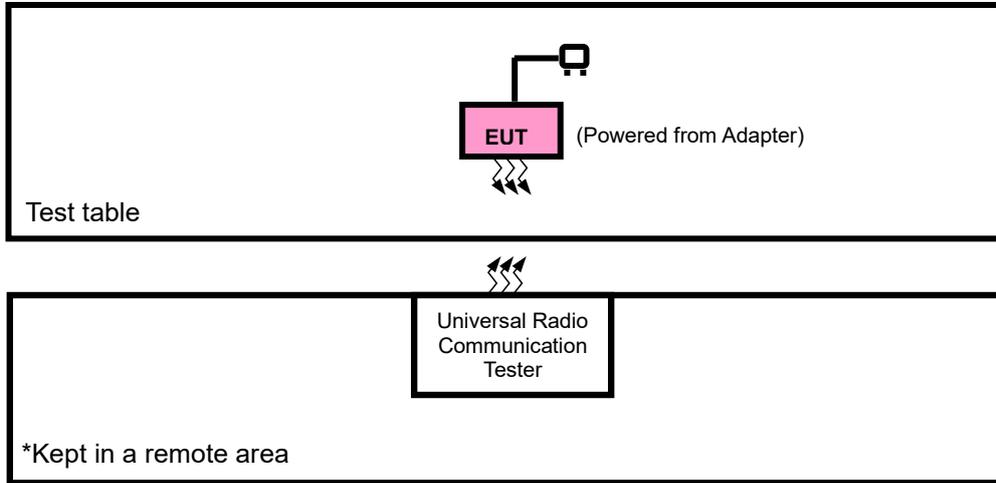
- \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides four completed transmitter and four receivers.

MODULATION MODE	TX FUNCTION
LTE 4/38/41/42/66	4TX/4RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



## 2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION TEST





### 2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter
2	USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter



## 2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 4 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset

**Note:** 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 4 are covered by LTE Band 66, Because it is a subset of LTE Band 66 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 66

LTE BAND 38 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0RB Offset
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		37850 to38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset



**Note:**

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. LTE Band 38 are covered by LTE Band 41, Because it is a subset of LTE Band 41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 41

LTE BAND 41 MODE							
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
A	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset	
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset	
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset	
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset	
B	FREQUENCY STABILITY	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB / 0 RB Offset	
A	OCCUPIED BANDWIDTH	39675 to 41565	40620	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset	
		39700 to 41540	40620	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset	
		39725 to 41515	40620	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset	
		39750 to 41490	40620	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset	
A	PEAK TO AVERAGE RATIO	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset	
A	BAND EDGE	39675 to 41565	39675	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset	
			41565	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset	
			39700 to 41540	39700	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
				41540	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		39725 to 41515	39725	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset	
				15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 74 RB Offset	
			41515	15MHz	QPSK, 16QAM, 64QAM, 256QAM		



		39750 to 41490	39750	20MHz	QPSK, 16QAM, 64QAM, 256QAM	75 RB / 0 RB Offset
			41490	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset
A	CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	39675 to 41565	40620	5MHz	QPSK	1 RB / 0 RB Offset
		39700 to 41540	40620	10MHz	QPSK	1 RB / 0 RB Offset
		39725 to 41515	40620	15MHz	QPSK	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB / 0 RB Offset

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE band 42						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	42115 to 43065	42115, 42590, 43065	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		42140 to 43040	42140, 42590, 43040	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		42165 to 43015	42165, 42590, 43015	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		42190 to 42990	42190, 42590, 42990	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	42190 to 42990	42190, 42590, 42990	20MHz	QPSK	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	42115 to 43065	42115, 42590, 43065	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		42140 to 43040	42140, 42590, 43040	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		42165 to 43015	42165, 42590, 43015	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		42190 to 42990	42190, 42590, 42990	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	42190 to 42990	42190, 42590, 42990	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset
A	BAND EDGE	42115 to 43065	42115	5MHz	QPSK, 16QAM,	1 RB / 0 RB Offset



					64QAM,256QAM	25 RB / 0 RB Offset		
					43065	5MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		42140 to 43040		42140	10MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset	
				43040	10MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset	
		42165 to 43015		42165	15MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset	
				43015	15MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset	
		42190 to 42990		42190	20MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset	
				42990	20MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset	
		<b>A</b>	CONDCUETED EMISSION	42115 to 43065	42115,42590,43065	5MHz	QPSK	1 RB / 0 RB Offset
				42140 to 43040	42140,42590,43040	10MHz	QPSK	1 RB / 0RB Offset
				42165 to 43015	42165,42590,43015	15MHz	QPSK	1 RB / 0 RB Offset
				42190 to 42990	42190,42590,42990	20MHz	QPSK	1 RB / 0 RB Offset
<b>A</b>	RADIATED EMISSION	42115 to 43065	42590	5MHz	QPSK	1 RB / 0 RB Offset		
		42140 to 43040	42140,42590,43040	10MHz	QPSK	1 RB / 0RB Offset		
		42165 to 43015	42590	15MHz	QPSK	1 RB / 0 RB Offset		
		42190 to 42990	42590	20MHz	QPSK	1 RB / 0 RB Offset		

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



LTE BAND 66 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK, 16QAM, 64QAM,256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	132072 to 132572	132072,132322,132572	20MHz	QPSK	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM	100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			132322	1.4MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			132657	3MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997	5MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			132647	5MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022	10MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			132622	10MHz	QPSK,16QAM, 64QAM, 256QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset



		132047 to 132597	132047	15MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset		
			132597	15MHz	QPSK, 16QAM, 64QAM, 256QAM	75 RB / 0 RB Offset		
		132072 to 132572	132072	20MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset		
			132572	20MHz	QPSK, 16QAM, 64QAM, 256QAM	100 RB / 0 RB Offset		
		A	CONDCUETED EMISSION	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK	1 RB / 0 RB Offset
				131987 to 132657	131987, 132322, 132657	3MHz	QPSK	1 RB / 0 RB Offset
131997 to 132647	131997, 132322, 132647			5MHz	QPSK	1 RB / 0 RB Offset		
132022 to 132622	132022, 132322, 132622			10MHz	QPSK	1 RB / 0 RB Offset		
132047 to 132597	132047, 132322, 132597			15MHz	QPSK	1 RB / 0 RB Offset		
132072 to 132572	132072, 132322, 132572			20MHz	QPSK	1 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	132072 to 132572	132072, 132322, 132572	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK	1 RB / 0 RB Offset		
		131987 to 132657	132322	3MHz	QPSK	1 RB / 0 RB Offset		
		131997 to 132647	132322	5MHz	QPSK	1 RB / 0 RB Offset		
		132022 to 132622	132022, 132322, 132622	10MHz	QPSK	1 RB / 0 RB Offset		
		132047 to 132597	132322	15MHz	QPSK	1 RB / 0 RB Offset		
		132072 to 132572	132322	20MHz	QPSK	1 RB / 0 RB Offset		

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
CONDCUETED EMISSION	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60Hz	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.93V By Battery	Hanwen Xu



**BUREAU VERITAS** Test Report No.: PSZ-QBJ2501200112RF04

## **2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 27**

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

**ANSI/TIA/EIA-603-D**

**ANSI/TIA/EIA-603-E**

**ANSI C63.26-2015**

**NOTE:** All test items have been performed and recorded as per the above standards.



### 3 TEST TYPES AND RESULTS

#### 3.1 OUTPUT POWER MEASUREMENT

##### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to the specific rule Part 27.50 (k)(3) Mobile devices are limited to 1Watt (30 dBm) EIRP, Mobile devices operating inl these bands must employ a means for limiting power to the minimum necessary for successful communications

##### 3.1.2 TEST PROCEDURES

###### **EIRP MEASUREMENT:**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

###### **CONDUCTED POWER MEASUREMENT:**

- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).



**3.1.4 TEST RESULTS**

**CONDUCTED OUTPUT POWER (dBm)**

**LTE Band 4\_Ant0**

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High	
		Channel		19957	20175	20393	
		Frequency (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	23.56	23.5	23.46	
		1	2	23.56	23.57	23.6	
		1	5	23.58	23.54	23.61	
		3	0	23.51	23.46	23.41	
		3	1	23.63	23.55	23.57	
		3	3	23.55	23.38	23.6	
	16QAM	6	0	22.58	22.56	22.67	
		1	0	22.6	22.78	22.78	
		1	2	22.7	22.77	22.89	
		1	5	22.76	22.75	22.7	
		3	0	22.35	22.4	22.42	
		3	1	22.35	22.64	22.58	
	64QAM	3	3	22.47	22.78	22.61	
		6	0	21.55	21.7	21.44	
		1	0	21.37	21.41	21.49	
		1	2	21.55	21.57	21.75	
		1	5	21.68	21.7	21.67	
		3	0	21.41	21.49	21.43	
	256QAM	3	1	21.47	21.68	21.45	
		3	3	21.62	21.69	21.56	
		6	0	20.55	20.66	20.63	
		1	0	18.6	18.65	18.83	
		1	2	18.78	18.68	18.64	
		1	5	18.47	18.61	18.62	
			3	0	18.32	18.51	18.36
			3	1	18.56	18.68	18.63
			3	3	18.59	18.71	18.65
			6	0	18.51	18.59	18.5



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	23.64	23.55	23.62
		1	7	23.61	23.74	23.72
		1	14	23.6	23.61	23.67
		8	0	22.65	22.6	22.67
		8	3	22.75	22.65	22.79
		8	7	22.67	22.62	22.66
		15	0	22.74	22.62	22.72
	16QAM	1	0	22.68	22.79	22.76
		1	7	22.78	22.92	22.93
		1	14	22.76	22.89	22.69
		8	0	21.42	21.63	21.45
		8	3	21.69	21.77	21.72
		8	7	21.63	21.87	21.68
		15	0	21.7	21.74	21.59
	64QAM	1	0	21.34	21.48	21.52
		1	7	21.68	21.78	21.75
		1	14	21.73	21.73	21.81
		8	0	20.56	20.71	20.65
		8	3	20.74	20.83	20.62
		8	7	20.65	20.82	20.66
		15	0	20.77	20.74	20.65
	256QAM	1	0	18.66	18.77	18.78
		1	7	18.76	18.88	18.7
		1	14	18.54	18.79	18.61
		8	0	18.49	18.57	18.44
		8	3	18.69	18.83	18.66
		8	7	18.63	18.68	18.65
		15	0	18.7	18.65	18.55



BW		RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	23.51	23.57	23.44
		1	12	23.54	23.68	23.61
		1	24	23.61	23.58	23.61
		12	0	22.68	22.55	22.44
		12	6	22.67	22.55	22.7
		12	13	22.67	22.62	22.68
		25	0	22.59	22.6	22.67
	16QAM	1	0	22.62	22.69	22.68
		1	12	22.61	22.69	22.85
		1	24	22.67	22.77	22.67
		12	0	21.44	21.45	21.37
		12	6	21.47	21.79	21.66
		12	13	21.53	21.62	21.59
		25	0	21.61	21.63	21.51
	64QAM	1	0	21.35	21.47	21.52
		1	12	21.48	21.69	21.67
		1	24	21.7	21.69	21.77
		12	0	20.42	20.74	20.6
		12	6	20.65	20.62	20.59
		12	13	20.49	20.7	20.69
		25	0	20.55	20.67	20.58
	256QAM	1	0	18.45	18.66	18.68
		1	12	18.74	18.79	18.45
		1	24	18.51	18.64	18.49
		12	0	18.46	18.39	18.43
		12	6	18.53	18.77	18.6
		12	13	18.41	18.6	18.7
		25	0	18.61	18.53	18.5



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	23.58	23.49	23.54
		1	24	23.58	23.74	23.78
		1	49	23.57	23.64	23.64
		25	0	22.59	22.66	22.58
		25	12	22.73	22.68	22.82
		25	25	22.75	22.58	22.7
		50	0	22.66	22.73	22.74
	16QAM	1	0	22.66	22.72	22.81
		1	24	22.87	22.94	22.91
		1	49	22.85	22.8	22.74
		25	0	21.42	21.64	21.44
		25	12	21.61	21.78	21.75
		25	25	21.65	21.79	21.64
		50	0	21.7	21.73	21.62
	64QAM	1	0	21.41	21.47	21.51
		1	24	21.67	21.71	21.77
		1	49	21.79	21.77	21.72
		25	0	20.63	20.73	20.58
		25	12	20.66	20.79	20.7
		25	25	20.72	20.71	20.62
		50	0	20.77	20.73	20.65
	256QAM	1	0	18.68	18.74	18.8
		1	24	18.87	18.77	18.73
		1	49	18.54	18.69	18.59
		25	0	18.41	18.59	18.47
		25	12	18.6	18.69	18.63
		25	25	18.66	18.69	18.74
		50	0	18.71	18.67	18.52



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	23.55	23.6	23.5
		1	37	23.67	23.7	23.68
		1	74	23.61	23.6	23.63
		36	0	22.64	22.61	22.62
		36	19	22.72	22.66	22.82
		36	39	22.75	22.62	22.69
		75	0	22.61	22.73	22.75
	16QAM	1	0	22.61	22.68	22.77
		1	37	22.77	22.93	22.88
		1	74	22.77	22.85	22.71
		36	0	21.48	21.54	21.51
		36	19	21.55	21.8	21.8
		36	39	21.64	21.83	21.71
		75	0	21.69	21.72	21.59
	64QAM	1	0	21.38	21.55	21.61
		1	37	21.66	21.75	21.74
		1	74	21.86	21.87	21.71
		36	0	20.6	20.65	20.67
		36	19	20.65	20.81	20.67
		36	39	20.6	20.8	20.68
		75	0	20.64	20.69	20.68
	256QAM	1	0	18.66	18.67	18.82
		1	37	18.74	18.85	18.64
		1	74	18.55	18.72	18.62
		36	0	18.44	18.5	18.57
		36	19	18.61	18.71	18.63
		36	39	18.65	18.71	18.7
		75	0	18.66	18.6	18.61



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	23.68	23.63	23.65
		1	50	23.72	23.76	23.85
		1	99	23.7	23.74	23.78
		50	0	22.74	22.68	22.71
		50	25	22.83	22.78	22.85
		50	50	22.81	22.72	22.81
		100	0	22.75	22.77	22.79
	16QAM	1	0	22.7	22.8	22.89
		1	50	22.9	22.95	22.99
		1	99	22.9	22.93	22.84
		50	0	21.54	21.67	21.52
		50	25	21.7	21.85	21.82
		50	50	21.77	21.89	21.76
		100	0	21.73	21.83	21.71
	64QAM	1	0	21.48	21.62	21.65
		1	50	21.7	21.83	21.81
		1	99	21.87	21.88	21.86
		50	0	20.66	20.79	20.73
		50	25	20.76	20.88	20.77
		50	50	20.73	20.84	20.75
		100	0	20.78	20.79	20.69
	256QAM	1	0	18.69	18.82	18.88
		1	50	18.88	18.89	18.74
		1	99	18.69	18.83	18.68
		50	0	18.53	18.65	18.59
		50	25	18.72	18.84	18.69
		50	50	18.68	18.79	18.78
		100	0	18.73	18.75	18.63



## LTE Band 4\_Ant2

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	24.38	24.55	24.63
		1	2	24.71	24.65	24.66
		1	5	24.58	24.48	24.4
		3	0	24.66	24.52	24.49
		3	1	24.63	24.7	24.66
		3	3	24.63	24.66	24.66
		6	0	23.65	23.61	23.55
	16QAM	1	0	23.6	23.54	23.44
		1	2	23.65	23.59	23.55
		1	5	23.67	23.7	23.57
		3	0	23.48	23.55	23.56
		3	1	23.56	23.65	23.69
		3	3	23.65	23.68	23.59
		6	0	22.71	22.71	22.55
	64QAM	1	0	22.48	22.54	22.39
		1	2	22.49	22.68	22.53
		1	5	22.62	22.63	22.55
		3	0	22.6	22.7	22.51
		3	1	22.48	22.7	22.47
		3	3	22.59	22.59	22.58
		6	0	21.56	21.6	21.54
	256QAM	1	0	19.46	19.55	19.45
		1	2	19.73	19.79	19.66
		1	5	19.64	19.71	19.61
		3	0	19.73	19.81	19.85
		3	1	19.65	19.61	19.41
		3	3	19.56	19.67	19.56
		6	0	19.5	19.71	19.59



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	24.47	24.64	24.56
		1	7	24.59	24.63	24.75
		1	14	24.55	24.57	24.38
		8	0	23.7	23.61	23.38
		8	3	23.71	23.7	23.66
		8	7	23.63	23.62	23.71
		15	0	23.62	23.69	23.48
	16QAM	1	0	23.62	23.58	23.53
		1	7	23.73	23.61	23.49
		1	14	23.68	23.62	23.5
		8	0	22.54	22.56	22.62
		8	3	22.6	22.63	22.65
		8	7	22.74	22.75	22.62
		15	0	22.72	22.65	22.57
	64QAM	1	0	22.57	22.56	22.39
		1	7	22.51	22.71	22.58
		1	14	22.55	22.67	22.52
		8	0	21.56	21.72	21.6
		8	3	21.58	21.72	21.56
		8	7	21.65	21.67	21.66
		15	0	21.59	21.65	21.47
	256QAM	1	0	19.44	19.5	19.43
		1	7	19.77	19.87	19.75
		1	14	19.64	19.66	19.55
		8	0	19.86	19.87	19.81
		8	3	19.65	19.65	19.48
		8	7	19.52	19.64	19.57
		15	0	19.47	19.64	19.63



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	24.35	24.52	24.44
		1	12	24.48	24.63	24.55
		1	24	24.51	24.56	24.36
		12	0	23.44	23.36	23.3
		12	6	23.55	23.66	23.5
		12	13	23.55	23.61	23.58
		25	0	23.51	23.57	23.48
	16QAM	1	0	23.65	23.47	23.47
		1	12	23.69	23.58	23.46
		1	24	23.51	23.56	23.38
		12	0	22.52	22.52	22.5
		12	6	22.54	22.61	22.62
		12	13	22.64	22.62	22.51
		25	0	22.53	22.68	22.35
	64QAM	1	0	22.44	22.52	22.41
		1	12	22.48	22.55	22.57
		1	24	22.4	22.62	22.55
		12	0	21.5	21.58	21.52
		12	6	21.52	21.64	21.39
		12	13	21.48	21.59	21.55
		25	0	21.55	21.52	21.48
	256QAM	1	0	19.36	19.55	19.42
		1	12	19.5	19.75	19.48
		1	24	19.54	19.62	19.52
		12	0	19.63	19.77	19.7
		12	6	19.51	19.44	19.35
		12	13	19.41	19.61	19.39
		25	0	19.37	19.65	19.66



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	24.49	24.54	24.51
		1	24	24.69	24.74	24.71
		1	49	24.51	24.51	24.5
		25	0	23.57	23.59	23.46
		25	12	23.65	23.7	23.62
		25	25	23.67	23.64	23.69
		50	0	23.57	23.58	23.56
	16QAM	1	0	23.63	23.48	23.44
		1	24	23.72	23.61	23.58
		1	49	23.59	23.57	23.6
		25	0	22.58	22.63	22.61
		25	12	22.62	22.62	22.66
		25	25	22.68	22.77	22.56
		50	0	22.71	22.64	22.58
	64QAM	1	0	22.54	22.55	22.39
		1	24	22.6	22.65	22.64
		1	49	22.5	22.64	22.6
		25	0	21.53	21.69	21.6
		25	12	21.5	21.64	21.58
		25	25	21.65	21.59	21.57
		50	0	21.62	21.63	21.49
	256QAM	1	0	19.38	19.54	19.46
		1	24	19.74	19.81	19.68
		1	49	19.57	19.71	19.57
		25	0	19.84	19.76	19.74
		25	12	19.54	19.53	19.43
		25	25	19.59	19.58	19.48
		50	0	19.58	19.61	19.57



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	24.37	24.54	24.44
		1	37	24.6	24.68	24.66
		1	74	24.49	24.57	24.47
		36	0	23.62	23.52	23.5
		36	19	23.63	23.69	23.74
		36	39	23.74	23.72	23.68
		75	0	23.55	23.63	23.55
	16QAM	1	0	23.61	23.6	23.56
		1	37	23.7	23.65	23.52
		1	74	23.59	23.71	23.47
		36	0	22.55	22.59	22.65
		36	19	22.59	22.62	22.63
		36	39	22.74	22.7	22.66
		75	0	22.67	22.72	22.59
	64QAM	1	0	22.54	22.5	22.34
		1	37	22.48	22.72	22.65
		1	74	22.61	22.56	22.46
		36	0	21.6	21.63	21.56
		36	19	21.5	21.69	21.58
		36	39	21.63	21.62	21.6
		75	0	21.55	21.64	21.48
	256QAM	1	0	19.48	19.56	19.43
		1	37	19.73	19.85	19.75
		1	74	19.54	19.65	19.62
		36	0	19.83	19.82	19.86
		36	19	19.64	19.62	19.43
		36	39	19.55	19.58	19.56
		75	0	19.55	19.75	19.64



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	24.51	24.67	24.65
		1	50	24.72	24.77	24.76
		1	99	24.61	24.62	24.51
		50	0	23.71	23.62	23.53
		50	25	23.76	23.79	23.77
		50	50	23.75	23.77	23.72
		100	0	23.69	23.73	23.62
	16QAM	1	0	23.69	23.61	23.59
		1	50	23.77	23.74	23.6
		1	99	23.73	23.72	23.62
		50	0	22.63	22.69	22.68
		50	25	22.71	22.76	22.75
		50	50	22.77	22.8	22.69
		100	0	22.73	22.74	22.63
	64QAM	1	0	22.59	22.61	22.47
		1	50	22.62	22.75	22.67
		1	99	22.64	22.71	22.61
		50	0	21.62	21.74	21.64
		50	25	21.62	21.76	21.61
		50	50	21.66	21.73	21.68
		100	0	21.67	21.72	21.62
	256QAM	1	0	19.53	19.64	19.51
		1	50	19.78	19.89	19.78
		1	99	19.65	19.79	19.67
		50	0	19.87	19.88	19.87
		50	25	19.66	19.68	19.55
		50	50	19.6	19.71	19.58
		100	0	19.62	19.76	19.72



### LTE Band 4\_Ant3

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	24.5	24.22	24.19
		1	2	24.48	24.41	24.52
		1	5	24.56	24.45	24.45
		3	0	24.44	24.55	24.36
		3	1	24.49	24.53	24.42
		3	3	24.62	24.56	24.54
		6	0	23.59	23.69	23.65
	16QAM	1	0	23.42	23.41	23.4
		1	2	23.62	23.46	23.4
		1	5	23.68	23.45	23.42
		3	0	23.43	23.32	23.35
		3	1	23.49	23.48	23.51
		3	3	23.54	23.38	23.4
		6	0	22.61	22.43	22.57
	64QAM	1	0	22.37	22.34	22.33
		1	2	22.71	22.5	22.48
		1	5	22.5	22.48	22.57
		3	0	22.44	22.47	22.41
		3	1	22.43	22.37	22.38
		3	3	22.42	22.33	22.47
		6	0	21.65	21.4	21.58
	256QAM	1	0	19.47	19.42	19.32
		1	2	19.65	19.51	19.51
		1	5	19.55	19.52	19.43
		3	0	19.48	19.42	19.31
		3	1	19.51	19.57	19.57
		3	3	19.5	19.32	19.37
		6	0	19.58	19.47	19.47



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	24.43	24.35	24.3
		1	7	24.58	24.45	24.52
		1	14	24.6	24.5	24.46
		8	0	23.64	23.5	23.54
		8	3	23.62	23.62	23.69
		8	7	23.67	23.75	23.65
		15	0	23.7	23.66	23.73
	16QAM	1	0	23.49	23.56	23.55
		1	7	23.64	23.56	23.65
		1	14	23.56	23.49	23.51
		8	0	22.67	22.47	22.6
		8	3	22.58	22.56	22.6
		8	7	22.77	22.63	22.5
		15	0	22.65	22.5	22.57
	64QAM	1	0	22.39	22.32	22.38
		1	7	22.75	22.6	22.54
		1	14	22.67	22.56	22.61
		8	0	21.67	21.52	21.54
		8	3	21.72	21.61	21.52
		8	7	21.67	21.48	21.54
		15	0	21.73	21.56	21.5
	256QAM	1	0	19.6	19.41	19.45
		1	7	19.73	19.58	19.61
		1	14	19.56	19.64	19.57
		8	0	19.48	19.44	19.4
		8	3	19.73	19.53	19.58
		8	7	19.55	19.46	19.53
		15	0	19.7	19.5	19.47



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	24.54	24.11	24.25
		1	12	24.47	24.54	24.53
		1	24	24.43	24.33	24.36
		12	0	23.45	23.48	23.46
		12	6	23.49	23.59	23.58
		12	13	23.57	23.67	23.58
		25	0	23.59	23.64	23.74
	16QAM	1	0	23.45	23.54	23.51
		1	12	23.6	23.51	23.5
		1	24	23.54	23.37	23.47
		12	0	22.44	22.36	22.46
		12	6	22.63	22.54	22.37
		12	13	22.69	22.55	22.52
		25	0	22.64	22.36	22.44
	64QAM	1	0	22.36	22.23	22.28
		1	12	22.71	22.45	22.51
		1	24	22.62	22.53	22.7
		12	0	21.57	21.45	21.44
		12	6	21.62	21.57	21.38
		12	13	21.65	21.31	21.53
		25	0	21.47	21.4	21.46
	256QAM	1	0	19.39	19.3	19.4
		1	12	19.69	19.53	19.58
		1	24	19.55	19.42	19.37
		12	0	19.53	19.34	19.4
		12	6	19.63	19.58	19.54
		12	13	19.43	19.44	19.33
		25	0	19.58	19.5	19.32



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	24.41	24.27	24.39
		1	24	24.63	24.45	24.64
		1	49	24.53	24.44	24.46
		25	0	23.58	23.5	23.47
		25	12	23.63	23.71	23.57
		25	25	23.77	23.75	23.63
		50	0	23.7	23.74	23.69
	16QAM	1	0	23.5	23.59	23.55
		1	24	23.63	23.55	23.55
		1	49	23.58	23.54	23.64
		25	0	22.6	22.46	22.56
		25	12	22.61	22.65	22.59
		25	25	22.72	22.61	22.51
		50	0	22.53	22.46	22.62
	64QAM	1	0	22.48	22.27	22.44
		1	24	22.81	22.67	22.54
		1	49	22.64	22.62	22.66
		25	0	21.58	21.54	21.59
		25	12	21.6	21.61	21.57
		25	25	21.59	21.44	21.61
		50	0	21.68	21.61	21.48
	256QAM	1	0	19.59	19.46	19.37
		1	24	19.65	19.62	19.55
		1	49	19.57	19.5	19.47
		25	0	19.53	19.46	19.43
		25	12	19.72	19.59	19.6
		25	25	19.56	19.38	19.48
		50	0	19.64	19.64	19.43



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	24.55	24.26	24.35
		1	37	24.54	24.55	24.59
		1	74	24.49	24.43	24.51
		36	0	23.55	23.53	23.57
		36	19	23.58	23.64	23.71
		36	39	23.69	23.75	23.66
		75	0	23.72	23.69	23.78
	16QAM	1	0	23.52	23.57	23.57
		1	37	23.72	23.65	23.61
		1	74	23.66	23.47	23.58
		36	0	22.56	22.43	22.56
		36	19	22.64	22.67	22.52
		36	39	22.76	22.56	22.57
		75	0	22.66	22.51	22.57
	64QAM	1	0	22.41	22.33	22.41
		1	37	22.72	22.54	22.57
		1	74	22.63	22.64	22.71
		36	0	21.61	21.54	21.53
		36	19	21.73	21.61	21.49
		36	39	21.67	21.44	21.55
		75	0	21.59	21.5	21.61
	256QAM	1	0	19.54	19.45	19.47
		1	37	19.72	19.65	19.6
		1	74	19.65	19.55	19.48
		36	0	19.54	19.4	19.5
		36	19	19.71	19.61	19.62
		36	39	19.54	19.46	19.43
		75	0	19.61	19.52	19.47



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	24.56	24.38	24.44
		1	50	24.67	24.59	24.65
		1	99	24.61	24.57	24.56
		50	0	23.66	23.64	23.61
		50	25	23.71	23.75	23.72
		50	50	23.79	23.78	23.74
		100	0	23.81	23.77	23.79
	16QAM	1	0	23.64	23.62	23.58
		1	50	23.77	23.7	23.66
		1	99	23.71	23.62	23.66
		50	0	22.69	22.58	22.61
		50	25	22.71	22.7	22.61
		50	50	22.78	22.65	22.63
		100	0	22.68	22.57	22.66
	64QAM	1	0	22.54	22.39	22.52
		1	50	22.83	22.69	22.69
		1	99	22.78	22.65	22.72
		50	0	21.68	21.67	21.67
		50	25	21.75	21.62	21.63
		50	50	21.71	21.58	21.68
		100	0	21.74	21.65	21.62
	256QAM	1	0	19.62	19.55	19.49
		1	50	19.79	19.71	19.67
		1	99	19.68	19.65	19.6
		50	0	19.61	19.48	19.54
		50	25	19.74	19.63	19.67
		50	50	19.62	19.51	19.54
		100	0	19.73	19.65	19.58



## LTE Band 4\_Ant4

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	24.26	24.35	24.23
		1	2	24.26	24.4	24.36
		1	5	24.18	24.26	24.22
		3	0	24.03	24.1	24.1
		3	1	24.23	24.21	24.23
		3	3	24.33	24.29	24.15
		6	0	23.38	23.36	23.37
	16QAM	1	0	23.51	23.49	23.48
		1	2	23.53	23.67	23.51
		1	5	23.39	23.52	23.38
		3	0	23.28	23.29	23.25
		3	1	23.25	23.38	23.28
		3	3	23.13	23.13	23.09
		6	0	22.33	22.42	22.22
	64QAM	1	0	22.31	22.34	22.4
		1	2	22.28	22.37	22.35
		1	5	22.45	22.42	22.37
		3	0	22.17	22.17	21.99
		3	1	22.32	22.35	22.23
		3	3	22.09	22.22	22.07
		6	0	21.25	21.47	21.41
	256QAM	1	0	19.11	19.3	19.27
		1	2	19.41	19.55	19.33
		1	5	19.42	19.55	19.43
		3	0	19.05	19.2	19.05
		3	1	19.26	19.34	19.2
		3	3	19.36	19.37	19.25
		6	0	19.23	19.37	19.22



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	24.15	24.13	24.19
		1	7	24.21	24.38	24.22
		1	14	24.2	24.14	24.21
		8	0	23.08	23.19	23.06
		8	3	23.23	23.19	23.14
		8	7	23.26	23.44	23.29
		15	0	23.17	23.34	23.38
	16QAM	1	0	23.38	23.34	23.41
		1	7	23.42	23.41	23.55
		1	14	23.37	23.39	23.32
		8	0	22.38	22.44	22.28
		8	3	22.25	22.28	22.27
		8	7	22.18	22.24	22.26
		15	0	22.15	22.38	22.21
	64QAM	1	0	22.18	22.35	22.33
		1	7	22.23	22.36	22.26
		1	14	22.38	22.3	22.33
		8	0	21.23	21.3	21.04
		8	3	21.29	21.27	21.27
		8	7	21.25	21.14	21.06
		15	0	21.33	21.25	21.27
	256QAM	1	0	18.99	19.07	19.2
		1	7	19.32	19.39	19.32
		1	14	19.42	19.47	19.34
		8	0	19.12	19.06	19.02
		8	3	19.22	19.17	19.28
		8	7	19.35	19.41	19.16
		15	0	19.33	19.3	19.27



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	24.25	24.33	24.32
		1	12	24.36	24.43	24.44
		1	24	24.21	24.34	24.21
		12	0	23.25	23.28	23.2
		12	6	23.27	23.39	23.28
		12	13	23.31	23.37	23.27
		25	0	23.31	23.48	23.36
	16QAM	1	0	23.52	23.44	23.5
		1	12	23.56	23.62	23.52
		1	24	23.38	23.42	23.41
		12	0	22.39	22.41	22.34
		12	6	22.3	22.43	22.34
		12	13	22.1	22.32	22.28
		25	0	22.29	22.41	22.29
	64QAM	1	0	22.26	22.38	22.35
		1	12	22.27	22.4	22.37
		1	24	22.47	22.46	22.36
		12	0	21.22	21.25	21.12
		12	6	21.36	21.33	21.38
		12	13	21.17	21.33	21.16
		25	0	21.32	21.38	21.37
	256QAM	1	0	19.05	19.24	19.18
		1	12	19.45	19.47	19.41
		1	24	19.46	19.58	19.41
		12	0	19.09	19.19	19.01
		12	6	19.31	19.42	19.19
		12	13	19.38	19.48	19.35
		25	0	19.3	19.41	19.26



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	24.46	24.19	24.09
		1	24	24.41	24.38	24.38
		1	49	24.49	24.33	24.4
		25	0	23.43	23.54	23.36
		25	12	23.49	23.51	23.41
		25	25	23.54	23.52	23.44
		50	0	23.57	23.65	23.59
	16QAM	1	0	23.38	23.31	23.32
		1	24	23.49	23.44	23.32
		1	49	23.56	23.37	23.36
		25	0	22.38	22.22	22.35
		25	12	22.38	22.43	22.49
		25	25	22.56	22.3	22.32
		50	0	22.48	22.42	22.53
	64QAM	1	0	22.33	22.32	22.28
		1	24	22.58	22.4	22.46
		1	49	22.46	22.37	22.55
		25	0	21.35	21.4	21.44
		25	12	21.37	21.28	21.28
		25	25	21.39	21.29	21.4
		50	0	21.64	21.38	21.46
	256QAM	1	0	19.46	19.41	19.17
		1	24	19.55	19.38	19.42
		1	49	19.45	19.51	19.3
		25	0	19.36	19.37	19.16
		25	12	19.49	19.5	19.54
		25	25	19.42	19.27	19.24
		50	0	19.52	19.34	19.34



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	24.42	24.14	24.17
		1	37	24.45	24.34	24.39
		1	74	24.54	24.36	24.31
		36	0	23.4	23.52	23.26
		36	19	23.47	23.54	23.37
		36	39	23.58	23.54	23.45
		75	0	23.46	23.58	23.54
	16QAM	1	0	23.41	23.39	23.38
		1	37	23.51	23.42	23.35
		1	74	23.56	23.33	23.33
		36	0	22.4	22.26	22.31
		36	19	22.38	22.5	22.46
		36	39	22.51	22.32	22.37
		75	0	22.48	22.31	22.42
	64QAM	1	0	22.33	22.26	22.21
		1	37	22.64	22.35	22.46
		1	74	22.47	22.41	22.51
		36	0	21.37	21.44	21.36
		36	19	21.33	21.4	21.37
		36	39	21.35	21.26	21.47
		75	0	21.59	21.37	21.55
	256QAM	1	0	19.42	19.36	19.27
		1	37	19.57	19.43	19.45
		1	74	19.5	19.38	19.38
		36	0	19.36	19.39	19.17
		36	19	19.48	19.42	19.52
		36	39	19.38	19.24	19.28
		75	0	19.43	19.38	19.36



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	24.35	24.37	24.36
		1	50	24.41	24.49	24.46
		1	99	24.3	24.41	24.36
		50	0	23.27	23.34	23.23
		50	25	23.39	23.44	23.34
		50	50	23.46	23.52	23.39
		100	0	23.44	23.5	23.46
	16QAM	1	0	23.55	23.56	23.53
		1	50	23.58	23.69	23.65
		1	99	23.45	23.57	23.44
		50	0	22.48	22.54	22.39
		50	25	22.36	22.49	22.42
		50	50	22.24	22.35	22.29
		100	0	22.41	22.46	22.35
	64QAM	1	0	22.38	22.43	22.42
		1	50	22.35	22.47	22.38
		1	99	22.49	22.53	22.5
		50	0	21.35	21.36	21.22
		50	25	21.43	21.47	21.44
		50	50	21.31	21.39	21.26
		100	0	21.36	21.48	21.47
	256QAM	1	0	19.2	19.33	19.28
		1	50	19.55	19.62	19.47
		1	99	19.52	19.6	19.5
		50	0	19.2	19.25	19.11
		50	25	19.36	19.43	19.34
		50	50	19.41	19.51	19.36
		100	0	19.37	19.42	19.36



## LTE Band 38\_Ant0

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	23.71	23.65	23.59
		1	12	23.52	23.51	23.5
		1	24	23.34	23.35	23.25
		12	0	22.8	22.72	22.64
		12	6	22.6	22.69	22.55
		12	13	22.58	22.69	22.69
		25	0	22.71	22.61	22.53
	16QAM	1	0	22.49	22.39	22.42
		1	12	22.59	22.59	22.4
		1	24	22.51	22.37	22.43
		12	0	21.67	21.7	21.73
		12	6	21.64	21.64	21.57
		12	13	21.59	21.6	21.51
		25	0	21.67	21.58	21.64
	64QAM	1	0	21.89	21.71	21.86
		1	12	21.74	21.7	21.69
		1	24	21.57	21.49	21.52
		12	0	20.81	20.7	20.71
		12	6	20.73	20.72	20.75
		12	13	20.64	20.63	20.5
		25	0	20.67	20.68	20.6
	256QAM	1	0	18.74	18.64	18.63
		1	12	18.75	18.7	18.66
		1	24	18.52	18.43	18.31
		12	0	18.84	18.61	18.79
		12	6	18.74	18.65	18.65
		12	13	18.72	18.71	18.61
		25	0	18.63	18.6	18.65



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	23.63	23.68	23.61
		1	24	23.57	23.55	23.55
		1	49	23.41	23.38	23.27
		25	0	22.75	22.75	22.69
		25	12	22.51	22.77	22.6
		25	25	22.61	22.76	22.7
		50	0	22.68	22.58	22.57
	16QAM	1	0	22.5	22.42	22.45
		1	24	22.65	22.58	22.42
		1	49	22.47	22.47	22.43
		25	0	21.71	21.68	21.64
		25	12	21.74	21.67	21.51
		25	25	21.73	21.56	21.51
		50	0	21.73	21.54	21.64
	64QAM	1	0	21.83	21.8	21.92
		1	24	21.7	21.7	21.71
		1	49	21.64	21.44	21.56
		25	0	20.79	20.61	20.73
		25	12	20.83	20.65	20.73
		25	25	20.68	20.71	20.58
		50	0	20.73	20.69	20.59
	256QAM	1	0	18.77	18.61	18.63
		1	24	18.76	18.63	18.6
		1	49	18.52	18.5	18.42
		25	0	18.85	18.6	18.74
		25	12	18.73	18.68	18.61
		25	25	18.74	18.64	18.56
		50	0	18.64	18.62	18.58



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	23.73	23.65	23.6
		1	37	23.55	23.49	23.57
		1	74	23.35	23.39	23.31
		36	0	22.69	22.76	22.69
		36	19	22.55	22.72	22.55
		36	39	22.52	22.66	22.61
		75	0	22.74	22.57	22.53
	16QAM	1	0	22.49	22.38	22.4
		1	37	22.61	22.53	22.46
		1	74	22.46	22.37	22.36
		36	0	21.74	21.71	21.73
		36	19	21.76	21.7	21.55
		36	39	21.63	21.55	21.57
		75	0	21.71	21.5	21.55
	64QAM	1	0	21.92	21.74	21.88
		1	37	21.75	21.66	21.65
		1	74	21.52	21.47	21.48
		36	0	20.82	20.64	20.71
		36	19	20.78	20.71	20.71
		36	39	20.6	20.62	20.53
		75	0	20.7	20.67	20.51
	256QAM	1	0	18.69	18.62	18.71
		1	37	18.8	18.71	18.64
		1	74	18.4	18.48	18.29
		36	0	18.85	18.62	18.74
		36	19	18.75	18.64	18.57
		36	39	18.7	18.65	18.5
		75	0	18.66	18.53	18.65



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	23.75	23.78	23.73
		1	50	23.67	23.62	23.61
		1	99	23.48	23.5	23.36
		50	0	22.81	22.84	22.76
		50	25	22.66	22.78	22.7
		50	50	22.67	22.79	22.74
		100	0	22.71	22.77	22.65
	16QAM	1	0	22.61	22.51	22.53
		1	50	22.68	22.6	22.55
		1	99	22.6	22.48	22.47
		50	0	21.81	21.72	21.75
		50	25	21.77	21.72	21.63
		50	50	21.74	21.68	21.63
		100	0	21.77	21.65	21.69
	64QAM	1	0	21.97	21.82	21.96
		1	50	21.84	21.76	21.77
		1	99	21.67	21.53	21.57
		50	0	20.87	20.76	20.85
		50	25	20.84	20.75	20.78
		50	50	20.75	20.72	20.62
		100	0	20.77	20.75	20.66
	256QAM	1	0	18.83	18.73	18.72
		1	50	18.86	18.77	18.72
		1	99	18.55	18.52	18.43
		50	0	18.89	18.74	18.81
		50	25	18.79	18.72	18.68
		50	50	18.78	18.75	18.64
		100	0	18.75	18.64	18.73



## LTE Band 38\_Ant2

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	24.33	24.51	24.51
		1	12	24.48	24.54	24.5
		1	24	24.47	24.52	24.52
		12	0	23.39	23.51	23.51
		12	6	23.5	23.59	23.55
		12	13	23.49	23.56	23.38
		25	0	23.46	23.53	23.46
	16QAM	1	0	23.59	23.58	23.62
		1	12	23.56	23.6	23.57
		1	24	23.3	23.42	23.45
		12	0	22.48	22.49	22.54
		12	6	22.36	22.57	22.49
		12	13	22.4	22.49	22.58
		25	0	22.42	22.35	22.55
	64QAM	1	0	22.6	22.67	22.77
		1	12	22.61	22.6	22.71
		1	24	22.44	22.52	22.58
		12	0	21.52	21.43	21.65
		12	6	21.52	21.51	21.67
		12	13	21.48	21.49	21.51
		25	0	21.5	21.28	21.48
	256QAM	1	0	19.52	19.46	19.46
		1	12	19.48	19.45	19.54
		1	24	19.33	19.32	19.43
		12	0	19.44	19.49	19.63
		12	6	19.48	19.46	19.57
		12	13	19.4	19.5	19.49
		25	0	19.48	19.49	19.5



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	24.34	24.53	24.6
		1	24	24.49	24.44	24.62
		1	49	24.45	24.51	24.55
		25	0	23.38	23.54	23.42
		25	12	23.42	23.55	23.47
		25	25	23.45	23.45	23.39
		50	0	23.57	23.52	23.51
	16QAM	1	0	23.45	23.52	23.63
		1	24	23.62	23.58	23.64
		1	49	23.33	23.42	23.44
		25	0	22.6	22.54	22.65
		25	12	22.44	22.53	22.61
		25	25	22.42	22.42	22.6
		50	0	22.44	22.37	22.56
	64QAM	1	0	22.66	22.57	22.74
		1	24	22.61	22.59	22.74
		1	49	22.56	22.5	22.52
		25	0	21.5	21.5	21.54
		25	12	21.57	21.54	21.58
		25	25	21.48	21.42	21.59
		50	0	21.46	21.28	21.47
	256QAM	1	0	19.47	19.43	19.51
		1	24	19.49	19.46	19.53
		1	49	19.29	19.25	19.43
		25	0	19.43	19.49	19.6
		25	12	19.45	19.44	19.64
		25	25	19.48	19.48	19.6
		50	0	19.48	19.46	19.56



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	24.26	24.4	24.59
		1	37	24.44	24.57	24.63
		1	74	24.47	24.56	24.55
		36	0	23.39	23.5	23.48
		36	19	23.53	23.57	23.54
		36	39	23.37	23.46	23.45
		75	0	23.47	23.51	23.46
	16QAM	1	0	23.53	23.56	23.64
		1	37	23.54	23.66	23.6
		1	74	23.2	23.33	23.44
		36	0	22.56	22.53	22.58
		36	19	22.48	22.56	22.53
		36	39	22.34	22.53	22.48
		75	0	22.42	22.3	22.55
	64QAM	1	0	22.62	22.68	22.73
		1	37	22.71	22.63	22.74
		1	74	22.45	22.47	22.55
		36	0	21.5	21.42	21.6
		36	19	21.65	21.52	21.56
		36	39	21.37	21.41	21.49
		75	0	21.41	21.31	21.45
	256QAM	1	0	19.45	19.5	19.52
		1	37	19.49	19.51	19.6
		1	74	19.38	19.3	19.37
		36	0	19.52	19.47	19.53
		36	19	19.49	19.48	19.61
		36	39	19.4	19.48	19.55
		75	0	19.49	19.44	19.47



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	24.41	24.55	24.61
		1	50	24.54	24.68	24.65
		1	99	24.51	24.58	24.59
		50	0	23.52	23.64	23.56
		50	25	23.56	23.67	23.57
		50	50	23.51	23.59	23.46
		100	0	23.59	23.6	23.56
	16QAM	1	0	23.6	23.65	23.69
		1	50	23.66	23.68	23.71
		1	99	23.35	23.44	23.48
		50	0	22.61	22.57	22.66
		50	25	22.49	22.61	22.63
		50	50	22.49	22.54	22.61
		100	0	22.45	22.44	22.59
	64QAM	1	0	22.72	22.72	22.78
		1	50	22.75	22.68	22.8
		1	99	22.58	22.55	22.62
		50	0	21.61	21.57	21.66
		50	25	21.66	21.56	21.68
		50	50	21.49	21.55	21.63
		100	0	21.55	21.43	21.58
	256QAM	1	0	19.56	19.53	19.59
		1	50	19.57	19.6	19.68
		1	99	19.4	19.36	19.44
		50	0	19.53	19.61	19.66
		50	25	19.57	19.55	19.67
		50	50	19.54	19.63	19.64
		100	0	19.52	19.58	19.61



## LTE Band 38\_Ant3

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	24.69	24.67	24.64
		1	12	24.75	24.66	24.64
		1	24	24.42	24.61	24.44
		12	0	23.78	23.86	23.66
		12	6	23.6	23.82	23.72
		12	13	23.74	23.75	23.68
		25	0	23.69	23.68	23.63
	16QAM	1	0	23.71	23.83	23.67
		1	12	23.66	23.74	23.59
		1	24	23.49	23.56	23.5
		12	0	22.71	22.75	22.7
		12	6	22.76	22.77	22.62
		12	13	22.72	22.77	22.7
		25	0	22.64	22.78	22.64
	64QAM	1	0	22.9	22.91	22.78
		1	12	22.67	22.81	22.76
		1	24	22.6	22.75	22.71
		12	0	21.67	21.74	21.74
		12	6	21.81	21.76	21.62
		12	13	21.59	21.71	21.67
		25	0	21.58	21.7	21.61
	256QAM	1	0	19.59	19.8	19.63
		1	12	19.79	19.74	19.71
		1	24	19.41	19.55	19.5
		12	0	19.78	19.77	19.68
		12	6	19.68	19.72	19.61
		12	13	19.53	19.65	19.65
		25	0	19.65	19.72	19.69



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	24.78	24.68	24.68
		1	24	24.65	24.68	24.63
		1	49	24.47	24.65	24.49
		25	0	23.7	23.82	23.74
		25	12	23.6	23.85	23.63
		25	25	23.7	23.78	23.55
		50	0	23.66	23.74	23.68
	16QAM	1	0	23.69	23.85	23.73
		1	24	23.62	23.75	23.6
		1	49	23.47	23.7	23.46
		25	0	22.69	22.78	22.77
		25	12	22.71	22.79	22.65
		25	25	22.66	22.85	22.61
		50	0	22.63	22.8	22.62
	64QAM	1	0	22.95	22.88	22.8
		1	24	22.66	22.79	22.74
		1	49	22.59	22.71	22.71
		25	0	21.74	21.78	21.67
		25	12	21.81	21.68	21.67
		25	25	21.61	21.81	21.64
		50	0	21.64	21.69	21.58
	256QAM	1	0	19.6	19.69	19.57
		1	24	19.69	19.71	19.57
		1	49	19.41	19.5	19.54
		25	0	19.77	19.84	19.64
		25	12	19.68	19.78	19.71
		25	25	19.51	19.73	19.65
		50	0	19.59	19.7	19.74



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	24.67	24.7	24.59
		1	37	24.68	24.66	24.65
		1	74	24.52	24.59	24.49
		36	0	23.77	23.87	23.75
		36	19	23.64	23.74	23.64
		36	39	23.7	23.74	23.59
		75	0	23.71	23.65	23.69
	16QAM	1	0	23.67	23.8	23.7
		1	37	23.64	23.76	23.63
		1	74	23.53	23.59	23.53
		36	0	22.67	22.75	22.74
		36	19	22.71	22.81	22.54
		36	39	22.68	22.72	22.64
		75	0	22.6	22.66	22.69
	64QAM	1	0	22.91	22.88	22.77
		1	37	22.76	22.89	22.66
		1	74	22.58	22.72	22.68
		36	0	21.69	21.78	21.67
		36	19	21.81	21.71	21.71
		36	39	21.69	21.7	21.7
		75	0	21.67	21.73	21.65
	256QAM	1	0	19.52	19.73	19.59
		1	37	19.73	19.7	19.71
		1	74	19.44	19.57	19.47
		36	0	19.79	19.82	19.7
		36	19	19.74	19.79	19.69
		36	39	19.56	19.68	19.68
		75	0	19.66	19.68	19.79



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	24.79	24.82	24.74
		1	50	24.77	24.75	24.71
		1	99	24.57	24.67	24.56
		50	0	23.82	23.89	23.76
		50	25	23.73	23.88	23.74
		50	50	23.8	23.84	23.69
		100	0	23.77	23.79	23.76
	16QAM	1	0	23.82	23.89	23.8
		1	50	23.75	23.85	23.71
		1	99	23.61	23.71	23.58
		50	0	22.78	22.87	22.81
		50	25	22.82	22.84	22.69
		50	50	22.75	22.86	22.73
		100	0	22.75	22.81	22.74
	64QAM	1	0	22.97	22.98	22.87
		1	50	22.8	22.92	22.78
		1	99	22.7	22.79	22.77
		50	0	21.76	21.87	21.8
		50	25	21.82	21.83	21.72
		50	50	21.72	21.85	21.76
		100	0	21.73	21.79	21.66
	256QAM	1	0	19.67	19.82	19.71
		1	50	19.8	19.83	19.72
		1	99	19.53	19.64	19.58
		50	0	19.8	19.88	19.74
		50	25	19.82	19.83	19.73
		50	50	19.65	19.79	19.72
		100	0	19.73	19.81	19.8



### LTE Band 38\_Ant4

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37775	38000	38225
		Frequency (MHz)		2572.5	2595	2617.5
5M	QPSK	1	0	23.69	23.73	23.88
		1	12	23.87	23.88	23.9
		1	24	23.72	23.71	23.79
		12	0	22.76	22.71	22.93
		12	6	22.77	22.8	22.9
		12	13	22.86	22.83	22.84
		25	0	22.72	22.73	22.82
	16QAM	1	0	22.88	22.67	22.89
		1	12	22.74	22.9	22.92
		1	24	22.76	22.7	22.71
		12	0	21.8	21.95	21.86
		12	6	21.95	21.76	21.91
		12	13	21.78	21.73	21.94
		25	0	21.77	21.62	21.83
	64QAM	1	0	22.08	21.88	22
		1	12	21.88	21.95	22.01
		1	24	21.88	21.83	21.91
		12	0	20.84	20.8	20.77
		12	6	20.96	20.83	21
		12	13	20.77	20.87	20.77
		25	0	20.74	20.83	20.8
	256QAM	1	0	18.74	18.79	18.96
		1	12	18.9	18.75	18.96
		1	24	18.54	18.59	18.6
		12	0	18.91	18.93	19.04
		12	6	18.86	18.85	18.9
		12	13	18.74	18.68	18.98
		25	0	18.83	18.92	19



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37800	38000	38200
		Frequency (MHz)		2575	2595	2615
10M	QPSK	1	0	23.6	23.83	23.85
		1	24	23.82	23.88	23.95
		1	49	23.76	23.7	23.84
		25	0	22.81	22.84	23
		25	12	22.87	22.88	22.88
		25	25	22.89	22.76	22.88
		50	0	22.77	22.78	22.76
	16QAM	1	0	22.84	22.68	22.85
		1	24	22.63	22.78	22.98
		1	49	22.7	22.69	22.72
		25	0	21.84	21.89	21.84
		25	12	21.86	21.76	21.94
		25	25	21.82	21.76	21.88
		50	0	21.71	21.68	21.8
	64QAM	1	0	22.01	21.87	21.95
		1	24	21.9	21.91	22.02
		1	49	21.93	21.77	21.92
		25	0	20.77	20.86	20.83
		25	12	20.96	20.86	20.9
		25	25	20.78	20.83	20.82
		50	0	20.7	20.8	20.85
	256QAM	1	0	18.73	18.73	18.94
		1	24	18.89	18.7	18.95
		1	49	18.51	18.56	18.64
		25	0	19.04	18.91	19.07
		25	12	18.9	18.83	18.86
		25	25	18.73	18.79	18.85
		50	0	18.83	18.93	18.91



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37825	38000	38175
		Frequency (MHz)		2577.5	2595	2612.5
15M	QPSK	1	0	23.69	23.79	23.9
		1	37	23.87	23.85	23.88
		1	74	23.7	23.71	23.78
		36	0	22.85	22.84	22.98
		36	19	22.86	22.87	22.92
		36	39	22.79	22.83	22.81
		75	0	22.77	22.73	22.79
	16QAM	1	0	22.77	22.71	22.92
		1	37	22.64	22.83	22.99
		1	74	22.63	22.65	22.66
		36	0	21.84	21.97	21.93
		36	19	21.89	21.79	21.94
		36	39	21.81	21.79	21.99
		75	0	21.74	21.72	21.8
	64QAM	1	0	22.09	21.86	22.02
		1	37	21.77	21.84	22.08
		1	74	21.8	21.89	21.83
		36	0	20.77	20.85	20.77
		36	19	20.95	20.8	20.98
		36	39	20.8	20.81	20.87
		75	0	20.75	20.72	20.74
	256QAM	1	0	18.68	18.83	18.92
		1	37	18.76	18.69	18.83
		1	74	18.53	18.58	18.61
		36	0	18.92	18.86	18.98
		36	19	18.88	18.92	18.91
		36	39	18.69	18.79	18.98
		75	0	18.93	18.93	18.9



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		37850	38000	38150
		Frequency (MHz)		2580	2595	2610
20M	QPSK	1	0	23.73	23.88	23.92
		1	50	23.91	23.93	23.99
		1	99	23.85	23.81	23.91
		50	0	22.87	22.86	23.03
		50	25	22.91	22.94	22.96
		50	50	22.9	22.89	22.96
		100	0	22.78	22.83	22.88
	16QAM	1	0	22.91	22.79	22.99
		1	50	22.75	22.91	23.03
		1	99	22.77	22.72	22.78
		50	0	21.92	22.01	21.97
		50	25	22.01	21.91	21.98
		50	50	21.91	21.88	22
		100	0	21.79	21.76	21.87
	64QAM	1	0	22.11	21.91	22.05
		1	50	21.91	21.98	22.09
		1	99	21.95	21.91	21.96
		50	0	20.85	20.9	20.88
		50	25	20.98	20.94	21.02
		50	50	20.85	20.91	20.88
		100	0	20.79	20.87	20.89
	256QAM	1	0	18.8	18.85	19.01
		1	50	18.91	18.8	18.98
		1	99	18.58	18.63	18.66
		50	0	19.05	18.97	19.08
		50	25	18.96	18.94	18.92
		50	50	18.78	18.83	19
		100	0	18.94	18.97	19.03



## LTE Band 41\_Ant0

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	23.71	23.74	23.35
		1	12	23.62	23.71	23.28
		1	24	23.62	23.54	23.24
		12	0	22.8	22.75	22.34
		12	6	22.69	22.74	22.38
		12	13	22.78	22.77	22.33
		25	0	22.78	22.75	22.36
	16QAM	1	0	22.85	22.58	22.29
		1	12	22.64	22.84	22.35
		1	24	22.62	22.56	22.17
		12	0	21.84	21.77	21.3
		12	6	21.78	21.78	21.4
		12	13	21.62	21.71	21.38
		25	0	21.82	21.79	21.31
	64QAM	1	0	21.87	21.75	21.27
		1	12	21.87	21.8	21.43
		1	24	21.7	21.66	21.23
		12	0	20.88	20.78	20.3
		12	6	20.84	20.78	20.37
		12	13	20.65	20.68	20.21
		25	0	20.83	20.66	20.24
	256QAM	1	0	18.76	18.79	18.29
		1	12	18.75	18.69	18.5
		1	24	18.48	18.4	18.26
		12	0	18.78	18.57	18.32
		12	6	18.74	18.71	18.39
		12	13	18.66	18.68	18.34
		25	0	18.82	18.69	18.38



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	23.75	23.68	23.37
		1	24	23.56	23.7	23.33
		1	49	23.53	23.59	23.15
		25	0	22.81	22.73	22.44
		25	12	22.7	22.73	22.34
		25	25	22.79	22.76	22.33
		50	0	22.82	22.79	22.35
	16QAM	1	0	22.87	22.66	22.32
		1	24	22.72	22.75	22.43
		1	49	22.62	22.48	22.17
		25	0	21.85	21.82	21.35
		25	12	21.85	21.88	21.39
		25	25	21.73	21.77	21.39
		50	0	21.82	21.81	21.26
	64QAM	1	0	21.86	21.83	21.32
		1	24	21.73	21.79	21.42
		1	49	21.67	21.75	21.27
		25	0	20.82	20.9	20.38
		25	12	20.86	20.76	20.31
		25	25	20.64	20.6	20.25
		50	0	20.83	20.73	20.17
	256QAM	1	0	18.78	18.68	18.29
		1	24	18.77	18.71	18.54
		1	49	18.57	18.53	18.29
		25	0	18.82	18.62	18.38
		25	12	18.81	18.6	18.29
		25	25	18.76	18.68	18.38
		50	0	18.76	18.68	18.34



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	23.81	23.73	23.23
		1	37	23.67	23.73	23.25
		1	74	23.5	23.6	23.23
		36	0	22.85	22.79	22.44
		36	19	22.77	22.77	22.27
		36	39	22.79	22.75	22.31
		75	0	22.72	22.72	22.4
	16QAM	1	0	22.86	22.59	22.21
		1	37	22.75	22.71	22.32
		1	74	22.62	22.55	22.29
		36	0	21.77	21.73	21.33
		36	19	21.75	21.82	21.42
		36	39	21.71	21.7	21.36
		75	0	21.78	21.78	21.31
	64QAM	1	0	21.79	21.78	21.32
		1	37	21.75	21.87	21.4
		1	74	21.7	21.73	21.25
		36	0	20.77	20.9	20.34
		36	19	20.75	20.75	20.37
		36	39	20.72	20.69	20.24
		75	0	20.85	20.68	20.25
	256QAM	1	0	18.81	18.68	18.29
		1	37	18.81	18.67	18.42
		1	74	18.53	18.4	18.31
		36	0	18.75	18.64	18.29
		36	19	18.77	18.61	18.3
		36	39	18.68	18.67	18.25
		75	0	18.8	18.68	18.29



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	23.86	23.81	23.38
		1	50	23.71	23.76	23.35
		1	99	23.63	23.62	23.26
		50	0	22.88	22.85	22.48
		50	25	22.84	22.82	22.39
		50	50	22.83	22.8	22.42
		100	0	22.84	22.83	22.45
	16QAM	1	0	22.89	22.73	22.33
		1	50	22.78	22.86	22.45
		1	99	22.65	22.59	22.32
		50	0	21.92	21.87	21.38
		50	25	21.86	21.89	21.47
		50	50	21.77	21.8	21.48
		100	0	21.85	21.86	21.35
	64QAM	1	0	21.91	21.88	21.33
		1	50	21.88	21.89	21.46
		1	99	21.74	21.76	21.32
		50	0	20.9	20.91	20.41
		50	25	20.88	20.87	20.44
		50	50	20.78	20.75	20.32
		100	0	20.86	20.79	20.31
	256QAM	1	0	18.85	18.83	18.41
		1	50	18.84	18.8	18.57
		1	99	18.61	18.55	18.32
		50	0	18.9	18.71	18.44
		50	25	18.86	18.75	18.41
		50	50	18.79	18.7	18.39
		100	0	18.84	18.73	18.43



# LTE Band 41\_Ant2

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	24.67	24.44	24.39
		1	12	24.69	24.52	24.43
		1	24	24.56	24.31	24.33
		12	0	23.76	23.62	23.44
		12	6	23.68	23.67	23.52
		12	13	23.6	23.49	23.49
		25	0	23.59	23.55	23.45
	16QAM	1	0	23.72	23.65	23.39
		1	12	23.69	23.56	23.26
		1	24	23.61	23.51	23.25
		12	0	22.73	22.63	22.41
		12	6	22.66	22.63	22.44
		12	13	22.71	22.67	22.54
		25	0	22.62	22.67	22.47
	64QAM	1	0	22.74	22.69	22.37
		1	12	22.75	22.63	22.34
		1	24	22.64	22.47	22.35
		12	0	21.76	21.62	21.42
		12	6	21.72	21.72	21.49
		12	13	21.7	21.55	21.45
		25	0	21.78	21.72	21.43
	256QAM	1	0	19.64	19.55	19.35
		1	12	19.62	19.68	19.38
		1	24	19.43	19.45	19.25
		12	0	19.75	19.55	19.44
		12	6	19.71	19.59	19.42
		12	13	19.66	19.55	19.41
		25	0	19.67	19.64	19.43



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	24.71	24.54	24.43
		1	24	24.6	24.41	24.44
		1	49	24.53	24.37	24.28
		25	0	23.75	23.52	23.39
		25	12	23.77	23.63	23.48
		25	25	23.64	23.51	23.4
		50	0	23.71	23.56	23.4
	16QAM	1	0	23.74	23.58	23.34
		1	24	23.59	23.54	23.36
		1	49	23.57	23.59	23.31
		25	0	22.71	22.6	22.4
		25	12	22.64	22.68	22.36
		25	25	22.72	22.63	22.42
		50	0	22.68	22.69	22.45
	64QAM	1	0	22.75	22.6	22.38
		1	24	22.7	22.66	22.37
		1	49	22.67	22.55	22.41
		25	0	21.71	21.59	21.49
		25	12	21.76	21.7	21.52
		25	25	21.63	21.64	21.46
		50	0	21.76	21.71	21.43
	256QAM	1	0	19.66	19.56	19.41
		1	24	19.59	19.6	19.37
		1	49	19.5	19.46	19.18
		25	0	19.62	19.63	19.43
		25	12	19.76	19.64	19.34
		25	25	19.64	19.5	19.38
		50	0	19.6	19.62	19.44



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	24.69	24.49	24.51
		1	37	24.7	24.47	24.37
		1	74	24.61	24.44	24.22
		36	0	23.72	23.49	23.44
		36	19	23.69	23.64	23.48
		36	39	23.65	23.48	23.42
		75	0	23.62	23.54	23.41
	16QAM	1	0	23.65	23.56	23.43
		1	37	23.61	23.61	23.35
		1	74	23.55	23.59	23.28
		36	0	22.71	22.62	22.51
		36	19	22.64	22.59	22.37
		36	39	22.74	22.56	22.45
		75	0	22.73	22.71	22.49
	64QAM	1	0	22.77	22.57	22.41
		1	37	22.69	22.6	22.41
		1	74	22.6	22.56	22.3
		36	0	21.69	21.56	21.48
		36	19	21.75	21.73	21.51
		36	39	21.65	21.56	21.46
		75	0	21.75	21.7	21.41
	256QAM	1	0	19.6	19.56	19.42
		1	37	19.69	19.66	19.42
		1	74	19.46	19.38	19.25
		36	0	19.73	19.6	19.53
		36	19	19.72	19.63	19.4
		36	39	19.64	19.58	19.48
		75	0	19.6	19.65	19.53



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	24.79	24.59	24.53
		1	50	24.75	24.56	24.51
		1	99	24.66	24.45	24.35
		50	0	23.77	23.64	23.5
		50	25	23.78	23.71	23.59
		50	50	23.74	23.6	23.52
		100	0	23.72	23.64	23.47
	16QAM	1	0	23.77	23.7	23.49
		1	50	23.71	23.66	23.4
		1	99	23.67	23.6	23.33
		50	0	22.8	22.74	22.55
		50	25	22.78	22.71	22.49
		50	50	22.75	22.7	22.56
		100	0	22.76	22.72	22.59
	64QAM	1	0	22.78	22.7	22.49
		1	50	22.76	22.69	22.45
		1	99	22.71	22.62	22.44
		50	0	21.79	21.7	21.51
		50	25	21.82	21.74	21.55
		50	50	21.74	21.66	21.48
		100	0	21.8	21.73	21.52
	256QAM	1	0	19.7	19.62	19.44
		1	50	19.74	19.7	19.45
		1	99	19.56	19.5	19.33
		50	0	19.77	19.66	19.54
		50	25	19.78	19.72	19.49
		50	50	19.72	19.65	19.5
		100	0	19.73	19.66	19.55



### LTE Band 41\_Ant3

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	24.34	24.28	23.96
		1	12	24.37	24.3	23.93
		1	24	24.41	24.08	23.71
		12	0	23.44	23.39	23.02
		12	6	23.46	23.32	23
		12	13	23.29	23.25	22.87
		25	0	23.25	23.42	22.9
	16QAM	1	0	23.27	23.45	22.82
		1	12	23.37	23.31	22.93
		1	24	23.15	23.19	23.03
		12	0	22.38	22.42	21.87
		12	6	22.42	22.35	22.06
		12	13	22.44	22.32	21.89
		25	0	22.31	22.24	21.87
	64QAM	1	0	22.45	22.39	22.06
		1	12	22.4	22.39	21.98
		1	24	22.15	22.09	21.69
		12	0	21.2	21.52	20.95
		12	6	21.24	21.4	21.01
		12	13	21.33	21.22	21.03
		25	0	21.37	21.41	21.02
	256QAM	1	0	19.2	19.2	18.89
		1	12	19.34	19.4	19.02
		1	24	19.15	19.21	18.85
		12	0	19.36	19.43	18.73
		12	6	19.34	19.35	19.01
		12	13	19.41	19.45	18.72
		25	0	18.87	19.44	18.95



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	24.41	24.3	23.89
		1	24	24.46	24.32	23.85
		1	49	24.41	24.15	23.61
		25	0	23.43	23.43	22.96
		25	12	23.46	23.41	22.95
		25	25	23.42	23.21	22.94
		50	0	23.26	23.43	22.97
	16QAM	1	0	23.34	23.44	22.91
		1	24	23.31	23.26	23.03
		1	49	23.13	23.13	23.09
		25	0	22.26	22.41	21.9
		25	12	22.44	22.3	22.08
		25	25	22.45	22.27	21.81
		50	0	22.29	22.35	21.95
	64QAM	1	0	22.38	22.45	22.03
		1	24	22.43	22.37	22.01
		1	49	22.07	22.02	21.81
		25	0	21.2	21.52	21.06
		25	12	21.2	21.28	21.04
		25	25	21.33	21.24	20.93
		50	0	21.3	21.33	20.96
	256QAM	1	0	19.2	19.15	18.83
		1	24	19.3	19.35	18.93
		1	49	19.15	19.11	18.72
		25	0	19.33	19.45	18.73
		25	12	19.45	19.29	18.95
		25	25	19.32	19.31	18.82
		50	0	18.69	19.41	18.96



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	24.38	24.37	23.98
		1	37	24.34	24.21	23.93
		1	74	24.39	24.16	23.7
		36	0	23.4	23.44	22.93
		36	19	23.45	23.38	22.96
		36	39	23.35	23.31	22.94
		75	0	23.31	23.35	22.96
	16QAM	1	0	23.32	23.49	22.93
		1	37	23.36	23.25	22.99
		1	74	23.25	23.13	22.97
		36	0	22.38	22.45	21.9
		36	19	22.44	22.4	22.04
		36	39	22.37	22.31	21.93
		75	0	22.36	22.23	21.97
	64QAM	1	0	22.46	22.41	22.01
		1	37	22.5	22.38	22.08
		1	74	22.18	22.1	21.67
		36	0	21.32	21.44	21
		36	19	21.2	21.29	20.98
		36	39	21.3	21.28	20.99
		75	0	21.39	21.37	20.93
	256QAM	1	0	19.15	19.22	18.9
		1	37	19.26	19.4	18.97
		1	74	19.21	19.2	18.85
		36	0	19.36	19.39	18.83
		36	19	19.37	19.32	18.87
		36	39	19.44	19.33	18.8
		75	0	18.74	19.43	18.86



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	24.49	24.39	24.01
		1	50	24.47	24.34	23.94
		1	99	24.45	24.23	23.75
		50	0	23.55	23.52	23.08
		50	25	23.49	23.43	23.05
		50	50	23.44	23.36	22.96
		100	0	23.36	23.5	23.04
	16QAM	1	0	23.4	23.52	22.97
		1	50	23.44	23.33	23.08
		1	99	23.27	23.25	23.11
		50	0	22.4	22.47	21.97
		50	25	22.54	22.44	22.15
		50	50	22.46	22.35	21.95
		100	0	22.44	22.38	22.02
	64QAM	1	0	22.47	22.46	22.1
		1	50	22.52	22.41	22.1
		1	99	22.21	22.15	21.82
		50	0	21.33	21.55	21.07
		50	25	21.32	21.43	21.07
		50	50	21.4	21.33	21.05
		100	0	21.4	21.45	21.07
	256QAM	1	0	19.22	19.28	18.94
		1	50	19.38	19.48	19.08
		1	99	19.22	19.23	18.87
		50	0	19.45	19.5	18.88
		50	25	19.47	19.41	19.02
		50	50	19.45	19.46	18.87
		100	0	18.92	19.53	18.99



## LTE Band 41\_Ant4

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39675	40620	41565
		Frequency (MHz)		2498.5	2593	2687.5
5M	QPSK	1	0	24.73	24.67	24.39
		1	12	24.64	24.51	24.41
		1	24	24.6	24.37	24.18
		12	0	23.84	23.7	23.46
		12	6	23.72	23.6	23.53
		12	13	23.74	23.59	23.5
		25	0	23.8	23.63	23.42
	16QAM	1	0	23.67	23.52	23.37
		1	12	23.68	23.55	23.5
		1	24	23.64	23.6	23.36
		12	0	22.72	22.67	22.43
		12	6	22.69	22.73	22.6
		12	13	22.64	22.59	22.63
		25	0	22.81	22.64	22.54
	64QAM	1	0	22.85	22.77	22.66
		1	12	22.79	22.65	22.66
		1	24	22.76	22.66	22.49
		12	0	21.69	21.62	21.48
		12	6	21.75	21.6	21.53
		12	13	21.66	21.51	21.4
		25	0	21.72	21.56	21.47
	256QAM	1	0	19.46	19.49	19.35
		1	12	19.77	19.62	19.44
		1	24	19.56	19.44	19.27
		12	0	19.64	19.54	19.53
		12	6	19.81	19.7	19.57
		12	13	19.63	19.62	19.48
		25	0	19.66	19.69	19.53



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39700	40620	41540
		Frequency (MHz)		2501	2593	2685
10M	QPSK	1	0	24.63	24.53	24.36
		1	24	24.67	24.5	24.32
		1	49	24.65	24.39	24.27
		25	0	23.7	23.7	23.5
		25	12	23.76	23.65	23.39
		25	25	23.73	23.6	23.4
		50	0	23.76	23.62	23.38
	16QAM	1	0	23.67	23.5	23.38
		1	24	23.7	23.65	23.53
		1	49	23.63	23.52	23.42
		25	0	22.66	22.69	22.45
		25	12	22.75	22.75	22.65
		25	25	22.64	22.6	22.63
		50	0	22.73	22.56	22.59
	64QAM	1	0	22.78	22.74	22.55
		1	24	22.78	22.75	22.59
		1	49	22.62	22.66	22.59
		25	0	21.67	21.55	21.51
		25	12	21.81	21.54	21.53
		25	25	21.63	21.6	21.45
		50	0	21.74	21.61	21.47
	256QAM	1	0	19.58	19.51	19.43
		1	24	19.72	19.58	19.47
		1	49	19.5	19.36	19.17
		25	0	19.65	19.56	19.44
		25	12	19.69	19.61	19.56
		25	25	19.77	19.56	19.44
		50	0	19.69	19.68	19.45



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39725	40620	41515
		Frequency (MHz)		2503.5	2593	2682.5
15M	QPSK	1	0	24.76	24.56	24.42
		1	37	24.72	24.55	24.43
		1	74	24.61	24.38	24.26
		36	0	23.76	23.62	23.55
		36	19	23.72	23.57	23.49
		36	39	23.73	23.57	23.41
		75	0	23.67	23.56	23.34
	16QAM	1	0	23.71	23.53	23.38
		1	37	23.75	23.56	23.48
		1	74	23.63	23.48	23.4
		36	0	22.75	22.59	22.51
		36	19	22.73	22.72	22.57
		36	39	22.74	22.58	22.62
		75	0	22.78	22.56	22.56
	64QAM	1	0	22.76	22.71	22.57
		1	37	22.72	22.74	22.55
		1	74	22.67	22.57	22.51
		36	0	21.73	21.61	21.55
		36	19	21.79	21.58	21.4
		36	39	21.66	21.62	21.47
		75	0	21.62	21.66	21.5
	256QAM	1	0	19.5	19.49	19.36
		1	37	19.78	19.6	19.5
		1	74	19.43	19.44	19.17
		36	0	19.66	19.55	19.44
		36	19	19.69	19.7	19.56
		36	39	19.68	19.58	19.52
		75	0	19.64	19.68	19.47



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		39750	40620	41490
		Frequency (MHz)		2506	2593	2680
20M	QPSK	1	0	24.77	24.68	24.47
		1	50	24.75	24.65	24.45
		1	99	24.73	24.51	24.29
		50	0	23.85	23.77	23.58
		50	25	23.84	23.7	23.54
		50	50	23.78	23.66	23.51
		100	0	23.82	23.69	23.46
	16QAM	1	0	23.73	23.65	23.44
		1	50	23.77	23.7	23.61
		1	99	23.7	23.62	23.49
		50	0	22.8	22.71	22.58
		50	25	22.83	22.78	22.66
		50	50	22.77	22.69	22.67
		100	0	22.83	22.71	22.6
	64QAM	1	0	22.89	22.8	22.68
		1	50	22.86	22.79	22.68
		1	99	22.77	22.68	22.6
		50	0	21.8	21.7	21.59
		50	25	21.84	21.69	21.55
		50	50	21.76	21.65	21.54
		100	0	21.77	21.67	21.58
	256QAM	1	0	19.6	19.52	19.5
		1	50	19.79	19.71	19.59
		1	99	19.58	19.5	19.31
		50	0	19.74	19.69	19.58
		50	25	19.82	19.75	19.62
		50	50	19.78	19.7	19.57
		100	0	19.75	19.71	19.6



**LTE Band 42 FCC Part27Q\_Ant1**

**BW: 5M**

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42115	42590	43065
		Frequency (MHz)		3452.5	3500	3547.5
5M	QPSK	1	0	22.74	22.39	22.37
		1	12	22.67	22.5	22.47
		1	24	22.66	22.29	22.36
		12	0	21.82	21.48	21.45
		12	6	21.73	21.46	21.44
		12	13	21.78	21.44	21.41
		25	0	21.79	21.5	21.41
	16QAM	1	0	21.65	21.58	21.47
		1	12	21.73	21.54	21.59
		1	24	21.73	21.75	21.61
		12	0	20.79	20.79	20.65
		12	6	20.74	20.78	20.64
		12	13	20.89	20.73	20.66
		25	0	20.75	20.78	20.68
	64QAM	1	0	20.79	20.66	20.62
		1	12	20.86	20.82	20.66
		1	24	20.93	20.81	20.74
		12	0	19.77	19.72	19.71
		12	6	19.9	19.67	19.62
		12	13	19.85	19.74	19.6
		25	0	19.77	19.71	19.67
	256QAM	1	0	17.49	17.55	17.4
		1	12	17.59	17.53	17.38
		1	24	17.65	17.61	17.48
		12	0	17.71	17.63	17.67
		12	6	17.79	17.7	17.71
		12	13	17.74	17.59	17.69
		25	0	17.78	17.65	17.6



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42140	42590	43040
		Frequency (MHz)		3455	3500	3545
10M	QPSK	1	0	22.5	22.41	22.28
		1	24	22.65	22.36	22.36
		1	49	22.56	22.19	22.33
		25	0	21.79	21.41	21.5
		25	12	21.68	21.37	21.34
		25	25	21.8	21.4	21.33
		50	0	21.76	21.35	21.37
	16QAM	1	0	21.59	21.44	21.22
		1	24	21.71	21.49	21.43
		1	49	21.79	21.53	21.61
		25	0	20.81	20.7	20.59
		25	12	20.63	20.64	20.57
		25	25	20.67	20.79	20.6
		50	0	20.74	20.62	20.59
	64QAM	1	0	20.66	20.78	20.56
		1	24	20.82	20.82	20.57
		1	49	20.8	20.73	20.65
		25	0	19.63	19.57	19.64
		25	12	19.82	19.55	19.45
		25	25	19.79	19.64	19.51
		50	0	19.73	19.64	19.62
	256QAM	1	0	17.43	17.38	17.43
		1	24	17.48	17.46	17.19
		1	49	17.53	17.47	17.46
		25	0	17.75	17.62	17.63
		25	12	17.69	17.71	17.69
		25	25	17.71	17.5	17.59
		50	0	17.71	17.73	17.45



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42165	42590	43015
		Frequency (MHz)		3457.5	3500	3542.5
15M	QPSK	1	0	22.64	22.51	22.42
		1	37	22.74	22.42	22.4
		1	74	22.61	22.33	22.46
		36	0	21.84	21.56	21.53
		36	19	21.74	21.4	21.42
		36	39	21.83	21.48	21.42
		75	0	21.77	21.37	21.48
	16QAM	1	0	21.71	21.59	21.33
		1	37	21.73	21.51	21.5
		1	74	21.82	21.67	21.66
		36	0	20.87	20.71	20.71
		36	19	20.78	20.71	20.64
		36	39	20.8	20.85	20.63
		75	0	20.75	20.72	20.71
	64QAM	1	0	20.81	20.79	20.68
		1	37	20.87	20.83	20.68
		1	74	20.93	20.75	20.66
		36	0	19.76	19.71	19.74
		36	19	19.91	19.68	19.6
		36	39	19.81	19.66	19.54
		75	0	19.88	19.72	19.73
	256QAM	1	0	17.54	17.45	17.44
		1	37	17.57	17.51	17.34
		1	74	17.59	17.57	17.56
		36	0	17.83	17.72	17.64
		36	19	17.82	17.73	17.71
		36	39	17.77	17.6	17.64
		75	0	17.81	17.77	17.56



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42190	42590	42990
		Frequence (MHz)		3460	3500	3540
20M	QPSK	1	0	22.75	22.53	22.45
		1	50	22.76	22.56	22.49
		1	99	22.72	22.39	22.48
		50	0	21.92	21.6	21.59
		50	25	21.86	21.54	21.57
		50	50	21.9	21.55	21.55
		100	0	21.88	21.51	21.54
	16QAM	1	0	21.73	21.62	21.48
		1	50	21.74	21.66	21.63
		1	99	21.85	21.77	21.75
		50	0	20.93	20.84	20.76
		50	25	20.89	20.81	20.71
		50	50	20.92	20.88	20.77
		100	0	20.9	20.82	20.8
	64QAM	1	0	20.88	20.8	20.74
		1	50	20.94	20.87	20.77
		1	99	20.96	20.88	20.81
		50	0	19.89	19.83	19.79
		50	25	19.93	19.82	19.7
		50	50	19.88	19.76	19.62
		100	0	19.9	19.85	19.74
	256QAM	1	0	17.62	17.6	17.51
		1	50	17.71	17.61	17.47
		1	99	17.67	17.64	17.59
		50	0	17.85	17.73	17.68
		50	25	17.9	17.82	17.81
		50	50	17.86	17.72	17.7
		100	0	17.88	17.78	17.64



### LTE Band 42 FCC Part27Q\_Ant2

**BW: 5M**

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42115	42590	43065
		Frequence (MHz)		3452.5	3500	3547.5
5M	QPSK	1	0	24.32	24.36	24.08
		1	12	24.59	24.42	24.11
		1	24	24.48	24.2	24.13
		12	0	23.69	23.39	23.15
		12	6	23.73	23.43	23.21
		12	13	23.69	23.42	23.1
		25	0	23.54	23.28	23.28
	16QAM	1	0	23.49	23.22	23.19
		1	12	23.57	23.41	23.35
		1	24	23.57	23.57	23.06
		12	0	22.58	22.62	22.14
		12	6	22.65	22.71	22.24
		12	13	22.57	22.46	22.21
		25	0	22.52	22.59	22.18
	64QAM	1	0	22.78	22.58	22.41
		1	12	22.72	22.56	22.19
		1	24	22.5	22.46	22.02
		12	0	21.63	21.45	21.09
		12	6	21.57	21.24	21.14
		12	13	21.57	21.5	21.15
		25	0	21.61	21.53	21.16
	256QAM	1	0	19.51	19.39	18.98
		1	12	19.47	19.39	19.12
		1	24	19.49	19.46	19
		12	0	19.62	19.62	19.04
		12	6	19.54	19.48	19.12
		12	13	19.54	19.56	19.14
		25	0	19.66	19.64	18.91



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42140	42590	43040
		Frequency (MHz)		3455	3500	3545
10M	QPSK	1	0	24.48	24.38	24.11
		1	24	24.66	24.4	24.2
		1	49	24.6	24.31	24.1
		25	0	23.7	23.39	23.3
		25	12	23.82	23.46	23.31
		25	25	23.71	23.41	23.24
		50	0	23.69	23.36	23.25
	16QAM	1	0	23.58	23.35	23.21
		1	24	23.63	23.57	23.41
		1	49	23.62	23.7	22.98
		25	0	22.79	22.61	22.18
		25	12	22.73	22.72	22.31
		25	25	22.72	22.64	22.34
		50	0	22.73	22.68	22.26
	64QAM	1	0	22.7	22.61	22.42
		1	24	22.82	22.67	22.35
		1	49	22.68	22.56	22.17
		25	0	21.72	21.44	21.15
		25	12	21.73	21.29	21.16
		25	25	21.78	21.53	21.28
		50	0	21.7	21.46	21.17
	256QAM	1	0	19.75	19.56	19.07
		1	24	19.6	19.47	19.25
		1	49	19.62	19.47	19.11
		25	0	19.7	19.69	19.22
		25	12	19.66	19.6	19.27
		25	25	19.73	19.61	19.24
		50	0	19.67	19.67	19.11



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42165	42590	43015
		Frequence (MHz)		3457.5	3500	3542.5
15M	QPSK	1	0	24.47	24.42	24.16
		1	37	24.59	24.45	24.14
		1	74	24.61	24.3	24.16
		36	0	23.84	23.52	23.3
		36	19	23.78	23.4	23.41
		36	39	23.68	23.49	23.24
		75	0	23.74	23.41	23.28
	16QAM	1	0	23.55	23.28	23.25
		1	37	23.65	23.58	23.4
		1	74	23.7	23.6	23.07
		36	0	22.69	22.66	22.15
		36	19	22.83	22.7	22.24
		36	39	22.67	22.6	22.23
		75	0	22.65	22.62	22.15
	64QAM	1	0	22.76	22.65	22.45
		1	37	22.76	22.59	22.34
		1	74	22.58	22.57	22.16
		36	0	21.65	21.36	21.21
		36	19	21.7	21.4	21.17
		36	39	21.77	21.5	21.32
		75	0	21.67	21.52	21.23
	256QAM	1	0	19.73	19.62	19.03
		1	37	19.48	19.57	19.3
		1	74	19.61	19.53	19.16
		36	0	19.7	19.7	19.31
		36	19	19.7	19.6	19.16
		36	39	19.75	19.62	19.31
		75	0	19.78	19.72	19.14



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42190	42590	42990
		Frequence (MHz)		3460	3500	3540
20M	QPSK	1	0	24.61	24.49	24.26
		1	50	24.73	24.53	24.27
		1	99	24.65	24.36	24.24
		50	0	23.85	23.53	23.33
		50	25	23.87	23.55	23.42
		50	50	23.82	23.5	23.39
		100	0	23.77	23.49	23.36
	16QAM	1	0	23.66	23.41	23.35
		1	50	23.76	23.63	23.44
		1	99	23.74	23.71	23.13
		50	0	22.82	22.74	22.3
		50	25	22.85	22.8	22.35
		50	50	22.81	22.72	22.37
		100	0	22.8	22.74	22.29
	64QAM	1	0	22.85	22.74	22.5
		1	50	22.84	22.7	22.45
		1	99	22.71	22.61	22.25
		50	0	21.8	21.51	21.26
		50	25	21.83	21.44	21.24
		50	50	21.82	21.62	21.38
		100	0	21.8	21.61	21.26
	256QAM	1	0	19.77	19.63	19.11
		1	50	19.63	19.58	19.31
		1	99	19.68	19.61	19.18
		50	0	19.82	19.81	19.32
		50	25	19.8	19.68	19.29
		50	50	19.81	19.67	19.32
		100	0	19.79	19.73	19.21



**LTE Band 42 FCC Part27Q\_Ant3**

**BW: 5M**

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42115	42590	43065
		Frequence (MHz)		3452.5	3500	3547.5
5M	QPSK	1	0	24.23	23.89	23.86
		1	12	24.35	24.03	23.91
		1	24	24.17	23.85	23.72
		12	0	23.42	22.97	22.92
		12	6	23.45	23.05	22.96
		12	13	23.31	23.03	22.99
		25	0	23.31	22.95	22.97
	16QAM	1	0	23.28	23.02	22.92
		1	12	23.37	23.12	23.04
		1	24	23.4	22.94	22.81
		12	0	22.37	21.99	21.86
		12	6	22.34	22	22.06
		12	13	22.38	22.1	21.99
		25	0	22.3	21.98	21.8
	64QAM	1	0	22.44	22.16	21.94
		1	12	22.29	22.17	22.16
		1	24	22.37	22.12	21.94
		12	0	21.36	21	20.94
		12	6	21.35	21.22	21.17
		12	13	21.19	21.16	20.99
		25	0	21.41	20.99	20.84
	256QAM	1	0	19.25	19.03	19.06
		1	12	19.24	19.1	19.06
		1	24	19.05	18.9	18.74
		12	0	19.42	19.15	19.05
		12	6	19.46	19.15	19
		12	13	19.31	19.06	18.98
		25	0	19.33	19.17	19.11



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42140	42590	43040
		Frequency (MHz)		3455	3500	3545
10M	QPSK	1	0	24.1	23.9	23.62
		1	24	24.18	23.89	23.89
		1	49	24.08	23.78	23.6
		25	0	23.32	23.01	22.8
		25	12	23.25	22.87	22.97
		25	25	23.32	22.89	22.9
		50	0	23.27	22.91	22.87
	16QAM	1	0	23.23	22.86	22.88
		1	24	23.17	23.2	22.95
		1	49	23.26	22.82	22.72
		25	0	22.21	21.94	21.89
		25	12	22.22	21.85	21.84
		25	25	22.25	22	21.98
		50	0	22.18	21.73	21.67
	64QAM	1	0	22.29	21.96	22
		1	24	22.23	22.05	22
		1	49	22.2	22.07	21.92
		25	0	21.21	20.88	20.91
		25	12	21.28	21.11	21.11
		25	25	21.09	20.96	20.99
		50	0	21.26	20.83	20.77
	256QAM	1	0	19.19	18.99	18.91
		1	24	19.13	19.09	18.84
		1	49	19.17	18.72	18.61
		25	0	19.34	18.9	18.92
		25	12	19.44	18.98	18.89
		25	25	19.15	18.9	18.84
		50	0	19.35	19.06	19.02



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42165	42590	43015
		Frequence (MHz)		3457.5	3500	3542.5
15M	QPSK	1	0	24.27	23.96	23.77
		1	37	24.24	24.03	23.94
		1	74	24.15	23.83	23.74
		36	0	23.38	23.07	22.91
		36	19	23.36	23	22.98
		36	39	23.37	23.03	22.93
		75	0	23.29	23	22.97
	16QAM	1	0	23.24	22.99	22.97
		1	37	23.31	23.21	22.98
		1	74	23.3	22.92	22.8
		36	0	22.26	22.05	21.92
		36	19	22.31	21.97	21.96
		36	39	22.36	22.08	22
		75	0	22.25	21.88	21.82
	64QAM	1	0	22.37	22.06	22.03
		1	37	22.34	22.11	22.14
		1	74	22.35	22.17	22.02
		36	0	21.36	20.97	20.97
		36	19	21.34	21.25	21.12
		36	39	21.18	21.11	21.06
		75	0	21.4	20.98	20.86
	256QAM	1	0	19.27	19.04	18.99
		1	37	19.19	19.11	18.96
		1	74	19.18	18.83	18.72
		36	0	19.45	19.04	19.06
		36	19	19.46	19.12	18.97
		36	39	19.23	18.97	18.89
		75	0	19.42	19.09	19.14



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42190	42590	42990
		Frequence (MHz)		3460	3500	3540
20M	QPSK	1	0	24.3	23.99	23.89
		1	50	24.37	24.05	23.95
		1	99	24.19	23.93	23.87
		50	0	23.45	23.09	23.02
		50	25	23.47	23.1	23.05
		50	50	23.43	23.09	23.01
		100	0	23.38	23.08	23.03
	16QAM	1	0	23.36	23.13	23.02
		1	50	23.41	23.23	23.13
		1	99	23.43	22.97	22.85
		50	0	22.41	22.12	22
		50	25	22.36	22.1	22.09
		50	50	22.4	22.16	22.12
		100	0	22.31	22.03	21.95
	64QAM	1	0	22.48	22.18	22.04
		1	50	22.36	22.23	22.22
		1	99	22.4	22.21	22.09
		50	0	21.45	21.11	21.08
		50	25	21.43	21.26	21.19
		50	50	21.31	21.22	21.07
		100	0	21.49	21.06	20.97
	256QAM	1	0	19.36	19.09	19.07
		1	50	19.34	19.18	19.1
		1	99	19.19	18.95	18.81
		50	0	19.47	19.16	19.13
		50	25	19.5	19.18	19.05
		50	50	19.38	19.07	19.02
		100	0	19.47	19.19	19.16



**LTE Band 42 FCC Part27Q\_Ant7**

**BW: 5M**

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42115	42590	43065
		Frequency (MHz)		3452.5	3500	3547.5
5M	QPSK	1	0	22.1	21.85	21.75
		1	12	22.15	21.92	21.77
		1	24	22.02	21.94	21.68
		12	0	21.16	20.84	20.73
		12	6	21.37	20.98	20.95
		12	13	21.22	20.91	20.82
		25	0	21.22	20.81	20.91
	16QAM	1	0	21.16	21.05	21.09
		1	12	20.92	20.8	20.69
		1	24	20.78	20.84	20.71
		12	0	20.01	19.91	19.98
		12	6	20.04	19.8	19.94
		12	13	20.2	19.92	19.98
		25	0	19.93	19.76	19.88
	64QAM	1	0	19.94	19.92	19.86
		1	12	20.1	20.06	20.1
		1	24	19.81	19.86	19.79
		12	0	18.85	18.98	18.92
		12	6	18.93	18.91	18.92
		12	13	18.9	18.96	18.95
		25	0	18.85	18.88	18.69
	256QAM	1	0	16.9	16.9	16.77
		1	12	17.04	16.89	16.75
		1	24	16.62	16.79	16.68
		12	0	16.84	16.93	16.86
		12	6	16.76	16.96	16.87
		12	13	16.75	16.86	16.79
		25	0	16.93	16.9	16.83



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42140	42590	43040
		Frequency (MHz)		3455	3500	3545
10M	QPSK	1	0	22.15	21.9	21.77
		1	24	22.18	21.95	21.84
		1	49	21.99	22	21.7
		25	0	21.27	20.82	20.84
		25	12	21.38	21.01	20.93
		25	25	21.21	20.84	20.77
		50	0	21.3	20.91	20.87
	16QAM	1	0	21.16	21.07	21.03
		1	24	20.9	20.89	20.75
		1	49	20.78	20.76	20.82
		25	0	20.05	19.99	20.01
		25	12	19.92	19.81	19.81
		25	25	20.12	19.98	19.95
		50	0	19.96	19.77	19.89
	64QAM	1	0	19.96	19.89	19.86
		1	24	19.97	20.05	20.03
		1	49	19.78	19.88	19.88
		25	0	18.8	19	18.93
		25	12	18.91	18.89	18.91
		25	25	18.86	19.06	18.98
		50	0	18.91	18.91	18.82
	256QAM	1	0	16.81	16.87	16.84
		1	24	17.13	16.89	16.89
		1	49	16.68	16.73	16.69
		25	0	16.79	16.97	16.86
		25	12	16.76	16.87	16.89
		25	25	16.72	16.86	16.75
		50	0	16.93	16.98	16.76



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42165	42590	43015
		Frequency (MHz)		3457.5	3500	3542.5
15M	QPSK	1	0	22.09	21.92	21.84
		1	37	22.16	22.04	21.85
		1	74	22.07	21.91	21.81
		36	0	21.18	20.81	20.78
		36	19	21.4	20.96	20.98
		36	39	21.18	20.84	20.84
		75	0	21.18	20.83	20.81
	16QAM	1	0	21.14	21.1	20.99
		1	37	20.93	20.82	20.71
		1	74	20.82	20.79	20.7
		36	0	19.98	19.96	19.91
		36	19	20	19.83	19.82
		36	39	20.15	19.89	19.94
		75	0	19.95	19.84	19.84
	64QAM	1	0	19.95	19.88	19.88
		1	37	19.98	20.12	20
		1	74	19.72	19.77	19.84
		36	0	18.87	18.92	18.89
		36	19	18.96	18.83	18.84
		36	39	18.8	18.95	18.96
		75	0	18.86	18.84	18.79
	256QAM	1	0	16.82	16.87	16.79
		1	37	17.13	16.89	16.84
		1	74	16.69	16.68	16.8
		36	0	16.85	16.98	16.79
		36	19	16.74	17	16.86
		36	39	16.72	16.89	16.77
		75	0	16.94	16.98	16.82



BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		42190	42590	42990
		Frequence (MHz)		3460	3500	3540
20M	QPSK	1	0	22.23	21.94	21.85
		1	50	22.28	22.07	21.88
		1	99	22.12	22.05	21.83
		50	0	21.28	20.91	20.87
		50	25	21.41	21.08	21.03
		50	50	21.33	20.98	20.92
		100	0	21.32	20.94	20.96
	16QAM	1	0	21.24	21.12	21.11
		1	50	21.03	20.92	20.81
		1	99	20.89	20.89	20.85
		50	0	20.06	20.05	20.02
		50	25	20.07	19.94	19.96
		50	50	20.25	20.03	20.06
		100	0	20.04	19.89	19.96
	64QAM	1	0	19.99	20.02	19.95
		1	50	20.12	20.15	20.15
		1	99	19.84	19.9	19.91
		50	0	18.9	19.05	18.99
		50	25	19.02	18.95	18.97
		50	50	18.91	19.09	19.01
		100	0	18.99	18.95	18.83
	256QAM	1	0	16.94	17.01	16.91
		1	50	17.15	17.03	16.9
		1	99	16.75	16.82	16.82
		50	0	16.87	17	16.89
		50	25	16.86	17.01	16.97
		50	50	16.87	17	16.89
		100	0	17.01	17.03	16.9



## LTE Band 66\_Ant0

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	23.42	23.48	23.56
		1	2	23.63	23.68	23.56
		1	5	23.34	23.61	23.59
		3	0	23.47	23.43	23.36
		3	1	23.5	23.42	23.53
		3	3	23.52	23.34	23.45
		6	0	22.55	22.62	22.42
	16QAM	1	0	22.62	22.78	22.71
		1	2	22.81	22.83	22.91
		1	5	22.85	22.74	22.7
		3	0	22.4	22.56	22.51
		3	1	22.44	22.6	22.49
		3	3	22.6	22.48	22.49
		6	0	21.52	21.64	21.73
	64QAM	1	0	21.77	21.7	21.75
		1	2	21.68	21.79	21.67
		1	5	21.72	21.75	21.79
		3	0	21.44	21.52	21.39
		3	1	21.5	21.58	21.63
		3	3	21.56	21.58	21.64
		6	0	20.61	20.6	20.59
	256QAM	1	0	18.59	18.72	18.67
		1	2	18.75	18.83	18.64
		1	5	18.63	18.76	18.64
		3	0	18.53	18.5	18.64
		3	1	18.57	18.7	18.66
		3	3	17.58	18.51	18.41
		6	0	18.53	18.51	18.4



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	23.58	23.61	23.68
		1	7	23.69	23.82	23.72
		1	14	23.48	23.75	23.66
		8	0	22.63	22.6	22.64
		8	3	22.65	22.75	22.7
		8	7	22.59	22.63	22.7
		15	0	22.57	22.6	22.65
	16QAM	1	0	22.8	22.73	22.8
		1	7	22.95	22.9	22.88
		1	14	22.78	22.83	22.86
		8	0	21.7	21.65	21.74
		8	3	21.66	21.79	21.74
		8	7	21.74	21.8	21.79
		15	0	21.8	21.73	21.74
	64QAM	1	0	21.74	21.89	21.75
		1	7	21.89	21.91	21.91
		1	14	21.81	21.91	21.85
		8	0	20.53	20.65	20.74
		8	3	20.6	20.82	20.7
		8	7	20.7	20.72	20.73
		15	0	20.72	20.65	20.68
	256QAM	1	0	18.65	18.83	18.78
		1	7	18.81	18.78	18.72
		1	14	18.8	18.83	18.72
		8	0	18.6	18.56	18.7
		8	3	18.67	18.73	18.74
		8	7	17.63	18.69	18.59
		15	0	18.69	18.72	18.58



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	23.48	23.72	23.59
		1	12	23.73	23.72	23.69
		1	24	23.52	23.65	23.72
		12	0	22.64	22.65	22.64
		12	6	22.64	22.77	22.71
		12	13	22.55	22.59	22.7
		25	0	22.6	22.68	22.56
	16QAM	1	0	22.85	22.84	22.72
		1	12	22.85	22.94	22.94
		1	24	22.89	22.81	22.91
		12	0	21.61	21.69	21.73
		12	6	21.63	21.69	21.66
		12	13	21.75	21.79	21.68
		25	0	21.7	21.77	21.72
	64QAM	1	0	21.86	21.76	21.85
		1	12	21.77	21.85	21.81
		1	24	21.83	21.88	21.78
		12	0	20.61	20.73	20.63
		12	6	20.71	20.78	20.79
		12	13	20.8	20.72	20.79
		25	0	20.63	20.66	20.73
	256QAM	1	0	18.68	18.7	18.71
		1	12	18.8	18.8	18.7
		1	24	18.67	18.79	18.69
		12	0	18.51	18.61	18.64
		12	6	18.58	18.65	18.67
		12	13	17.61	18.76	18.57
		25	0	18.68	18.74	18.53



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	23.38	23.55	23.6
		1	24	23.72	23.65	23.58
		1	49	23.46	23.67	23.64
		25	0	22.56	22.61	22.62
		25	12	22.58	22.67	22.64
		25	25	22.56	22.61	22.56
		50	0	22.51	22.5	22.59
	16QAM	1	0	22.74	22.79	22.7
		1	24	22.76	22.93	22.74
		1	49	22.81	22.79	22.77
		25	0	21.51	21.67	21.73
		25	12	21.62	21.71	21.52
		25	25	21.73	21.7	21.72
		50	0	21.62	21.58	21.71
	64QAM	1	0	21.66	21.7	21.71
		1	24	21.75	21.68	21.68
		1	49	21.73	21.73	21.81
		25	0	20.4	20.52	20.68
		25	12	20.62	20.7	20.65
		25	25	20.63	20.71	20.71
		50	0	20.63	20.69	20.66
	256QAM	1	0	18.6	18.74	18.61
		1	24	18.66	18.79	18.62
		1	49	18.69	18.66	18.62
		25	0	18.5	18.45	18.71
		25	12	18.68	18.63	18.52
		25	25	17.58	18.53	18.5
		50	0	18.51	18.51	18.48



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	23.52	23.66	23.64
		1	37	23.73	23.78	23.66
		1	74	23.6	23.69	23.68
		36	0	22.59	22.67	22.7
		36	19	22.7	22.8	22.68
		36	39	22.66	22.68	22.64
		75	0	22.65	22.6	22.69
	16QAM	1	0	22.75	22.82	22.83
		1	37	22.85	22.98	22.87
		1	74	22.89	22.83	22.86
		36	0	21.64	21.7	21.77
		36	19	21.7	21.77	21.67
		36	39	21.78	21.77	21.81
		75	0	21.71	21.68	21.79
	64QAM	1	0	21.76	21.83	21.84
		1	37	21.87	21.79	21.78
		1	74	21.79	21.78	21.84
		36	0	20.55	20.67	20.69
		36	19	20.7	20.82	20.77
		36	39	20.74	20.74	20.76
		75	0	20.66	20.73	20.74
	256QAM	1	0	18.7	18.82	18.71
		1	37	18.81	18.87	18.68
		1	74	18.73	18.81	18.66
		36	0	18.59	18.56	18.74
		36	19	18.69	18.77	18.65
		36	39	17.64	18.66	18.51
		75	0	18.63	18.6	18.58



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	23.59	23.73	23.71
		1	50	23.8	23.87	23.77
		1	99	23.61	23.77	23.74
		50	0	22.72	22.69	22.72
		50	25	22.75	22.81	22.79
		50	50	22.68	22.74	22.77
		100	0	22.69	22.73	22.71
	16QAM	1	0	22.86	22.88	22.86
		1	50	22.97	22.99	22.98
		1	99	22.92	22.94	22.93
		50	0	21.76	21.8	21.79
		50	25	21.77	21.81	21.8
		50	50	21.8	21.84	21.83
		100	0	21.81	21.83	21.8
	64QAM	1	0	21.87	21.9	21.89
		1	50	21.91	21.94	21.93
		1	99	21.89	21.92	21.9
		50	0	20.66	20.76	20.75
		50	25	20.73	20.85	20.83
		50	50	20.81	20.83	20.85
		100	0	20.77	20.78	20.76
	256QAM	1	0	18.79	18.84	18.82
		1	50	18.83	18.88	18.82
		1	99	18.82	18.87	18.73
		50	0	18.65	18.7	18.76
		50	25	18.73	18.8	18.77
		50	50	17.69	18.77	18.6
		100	0	18.74	18.75	18.62



## LTE Band 66\_Ant2

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	24.62	24.6	24.69
		1	2	24.69	24.8	24.78
		1	5	24.76	24.78	24.7
		3	0	24.66	24.79	24.66
		3	1	24.6	24.71	24.76
		3	3	24.78	24.76	24.7
		6	0	23.74	23.85	23.94
	16QAM	1	0	23.82	23.79	23.98
		1	2	23.96	23.89	23.91
		1	5	23.91	23.96	23.85
		3	0	23.76	23.72	23.76
		3	1	23.59	23.77	23.83
		3	3	23.73	23.69	23.78
		6	0	22.75	22.72	22.82
	64QAM	1	0	22.82	22.69	22.8
		1	2	23.05	22.94	22.95
		1	5	22.75	22.93	22.93
		3	0	22.74	22.55	22.66
		3	1	22.73	22.66	22.74
		3	3	22.73	22.79	22.73
		6	0	21.76	21.78	21.73
	256QAM	1	0	19.83	19.84	19.9
		1	2	19.96	19.98	19.95
		1	5	19.8	19.83	19.91
		3	0	19.71	19.73	19.86
		3	1	19.74	19.77	19.82
		3	3	19.79	19.85	19.77
		6	0	19.69	19.75	19.78



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	24.72	24.68	24.75
		1	7	24.85	24.84	24.85
		1	14	24.78	24.83	24.76
		8	0	23.86	23.89	23.79
		8	3	23.94	23.96	23.86
		8	7	23.83	23.85	23.87
		15	0	23.89	24.02	23.99
	16QAM	1	0	23.92	23.95	23.9
		1	7	24.11	23.99	24.08
		1	14	24.08	24	23.99
		8	0	22.9	22.85	22.78
		8	3	22.91	22.81	22.94
		8	7	22.78	22.76	22.89
		15	0	22.8	22.83	22.98
	64QAM	1	0	22.84	22.72	22.97
		1	7	22.99	22.95	23.1
		1	14	22.89	22.95	23
		8	0	21.79	21.79	21.81
		8	3	21.87	21.81	21.85
		8	7	21.88	21.97	21.93
		15	0	21.74	21.92	21.84
	256QAM	1	0	19.88	19.96	19.95
		1	7	19.91	19.94	20.09
		1	14	19.83	19.88	19.96
		8	0	19.76	19.91	19.94
		8	3	19.82	19.88	19.88
		8	7	19.86	19.76	19.85
		15	0	19.88	19.92	19.89



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	24.7	24.74	24.75
		1	12	24.79	24.87	24.83
		1	24	24.85	24.82	24.82
		12	0	23.82	23.88	23.9
		12	6	23.89	23.96	23.84
		12	13	23.79	23.93	23.86
		25	0	23.86	23.91	23.9
	16QAM	1	0	23.88	24.01	23.97
		1	12	24.09	24.05	24.11
		1	24	23.94	23.9	23.94
		12	0	22.83	22.94	22.82
		12	6	22.89	22.86	22.98
		12	13	22.78	22.85	22.92
		25	0	22.88	22.84	22.87
	64QAM	1	0	22.84	22.71	22.98
		1	12	23.03	23.02	23.09
		1	24	22.87	22.91	22.94
		12	0	21.86	21.85	21.84
		12	6	21.83	21.79	21.88
		12	13	21.78	21.85	21.97
		25	0	21.75	21.93	21.94
	256QAM	1	0	19.92	19.92	19.88
		1	12	19.93	19.97	19.97
		1	24	19.87	19.92	19.93
		12	0	19.81	19.91	19.85
		12	6	19.83	19.83	19.9
		12	13	19.72	19.85	19.92
		25	0	19.95	19.93	19.83



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	24.53	24.63	24.71
		1	24	24.67	24.69	24.72
		1	49	24.71	24.69	24.86
		25	0	23.7	23.79	23.83
		25	12	23.84	23.74	23.84
		25	25	23.84	23.79	23.84
		50	0	23.78	23.88	23.86
	16QAM	1	0	23.83	23.88	23.87
		1	24	23.94	23.83	23.91
		1	49	23.85	23.91	23.88
		25	0	22.78	22.75	22.84
		25	12	22.79	22.72	22.94
		25	25	22.8	22.83	22.8
		50	0	22.84	22.78	22.79
	64QAM	1	0	22.8	22.67	22.92
		1	24	22.91	22.98	22.91
		1	49	22.78	22.89	22.96
		25	0	21.71	21.78	21.79
		25	12	21.87	21.79	21.88
		25	25	21.79	21.77	21.88
		50	0	21.78	21.9	21.79
	256QAM	1	0	19.86	19.79	19.81
		1	24	19.8	20.01	19.95
		1	49	19.89	19.77	19.8
		25	0	19.81	19.84	19.83
		25	12	19.76	19.76	19.73
		25	25	19.66	19.79	19.78
		50	0	19.83	19.88	19.85



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	24.67	24.76	24.82
		1	37	24.75	24.83	24.81
		1	74	24.81	24.77	24.87
		36	0	23.85	23.9	23.84
		36	19	23.9	23.89	23.87
		36	39	23.86	23.84	23.86
		75	0	23.86	23.98	23.91
	16QAM	1	0	23.96	23.93	23.95
		1	37	24.04	23.98	24.06
		1	74	23.94	23.99	23.99
		36	0	22.8	22.85	22.89
		36	19	22.88	22.79	23
		36	39	22.84	22.9	22.86
		75	0	22.85	22.83	22.86
	64QAM	1	0	22.91	22.74	23.03
		1	37	23.05	23.06	22.98
		1	74	22.89	22.95	22.97
		36	0	21.83	21.84	21.83
		36	19	21.93	21.84	21.9
		36	39	21.84	21.89	21.89
		75	0	21.88	21.94	21.87
	256QAM	1	0	19.87	19.88	19.83
		1	37	19.94	20.02	20.09
		1	74	19.94	19.91	19.85
		36	0	19.88	19.92	19.88
		36	19	19.77	19.83	19.81
		36	39	19.79	19.85	19.92
		75	0	19.91	19.94	19.92



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	24.79	24.82	24.83
		1	50	24.88	24.96	24.92
		1	99	24.86	24.91	24.9
		50	0	23.92	23.95	23.91
		50	25	23.96	24.01	23.99
		50	50	23.91	23.98	23.94
		100	0	23.95	24.05	24.02
	16QAM	1	0	24.02	24.06	24.05
		1	50	24.14	24.1	24.15
		1	99	24.09	24.05	24.09
		50	0	22.95	22.96	22.93
		50	25	22.96	22.94	23.04
		50	50	22.93	22.91	22.99
		100	0	22.89	22.87	23
	64QAM	1	0	22.92	22.86	23.05
		1	50	23.13	23.09	23.11
		1	99	23.01	23	23.08
		50	0	21.91	21.92	21.91
		50	25	21.95	21.93	21.96
		50	50	21.92	22	21.99
		100	0	21.89	21.96	21.97
	256QAM	1	0	19.94	19.97	19.98
		1	50	20.06	20.09	20.1
		1	99	19.96	19.99	20
		50	0	19.91	19.94	19.95
		50	25	19.89	19.91	19.92
		50	50	19.87	19.89	19.99
		100	0	19.96	19.99	19.96



### LTE Band 66\_Ant3

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	24.63	24.7	24.53
		1	2	24.72	24.8	24.56
		1	5	24.7	24.68	24.57
		3	0	24.64	24.63	24.44
		3	1	24.53	24.67	24.56
		3	3	24.55	24.63	24.61
		6	0	23.69	23.75	23.71
	16QAM	1	0	23.75	23.84	23.73
		1	2	23.82	23.91	23.91
		1	5	23.78	23.94	23.9
		3	0	23.56	23.61	23.63
		3	1	23.61	23.6	23.61
		3	3	23.63	23.74	23.65
		6	0	22.6	22.72	22.58
	64QAM	1	0	22.87	22.84	22.92
		1	2	22.92	22.88	22.86
		1	5	22.79	22.88	22.85
		3	0	22.56	22.55	22.59
		3	1	22.59	22.54	22.56
		3	3	22.52	22.56	22.51
		6	0	21.63	21.74	21.68
	256QAM	1	0	19.63	19.55	19.6
		1	2	19.79	19.76	19.72
		1	5	19.59	19.84	19.81
		3	0	19.51	19.67	19.65
		3	1	19.62	19.64	19.63
		3	3	19.5	19.69	19.77
		6	0	19.58	19.68	19.69



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	24.68	24.6	24.52
		1	7	24.61	24.78	24.65
		1	14	24.66	24.76	24.57
		8	0	23.62	23.63	23.55
		8	3	23.7	23.7	23.66
		8	7	23.71	23.7	23.67
		15	0	23.77	23.74	23.69
	16QAM	1	0	23.83	23.88	23.79
		1	7	23.83	23.99	23.83
		1	14	23.77	23.86	23.91
		8	0	22.61	22.7	22.75
		8	3	22.65	22.67	22.65
		8	7	22.77	22.8	22.82
		15	0	22.7	22.63	22.71
	64QAM	1	0	22.81	22.86	22.79
		1	7	22.87	23.02	22.93
		1	14	22.89	22.86	22.9
		8	0	21.69	21.74	21.66
		8	3	21.67	21.65	21.7
		8	7	21.73	21.67	21.63
		15	0	21.64	21.66	21.69
	256QAM	1	0	19.57	19.67	19.59
		1	7	19.78	19.86	19.84
		1	14	19.6	19.83	19.86
		8	0	19.54	19.63	19.57
		8	3	19.67	19.64	19.63
		8	7	19.47	19.66	19.69
		15	0	19.61	19.64	19.61



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	24.51	24.54	24.42
		1	12	24.59	24.6	24.52
		1	24	24.61	24.57	24.61
		12	0	23.59	23.6	23.5
		12	6	23.46	23.71	23.56
		12	13	23.54	23.68	23.73
		25	0	23.6	23.65	23.64
	16QAM	1	0	23.71	23.84	23.76
		1	12	23.68	23.75	23.89
		1	24	23.69	23.86	23.82
		12	0	22.46	22.55	22.67
		12	6	22.57	22.59	22.64
		12	13	22.68	22.62	22.69
		25	0	22.55	22.68	22.61
	64QAM	1	0	22.68	22.9	22.77
		1	12	22.83	22.78	22.9
		1	24	22.68	22.75	22.76
		12	0	21.56	21.59	21.57
		12	6	21.65	21.52	21.54
		12	13	21.58	21.61	21.63
		25	0	21.62	21.57	21.47
	256QAM	1	0	19.6	19.56	19.52
		1	12	19.63	19.67	19.6
		1	24	19.39	19.69	19.76
		12	0	19.42	19.62	19.45
		12	6	19.55	19.64	19.67
		12	13	19.37	19.54	19.57
		25	0	19.54	19.55	19.54



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	24.58	24.69	24.54
		1	24	24.69	24.74	24.57
		1	49	24.59	24.68	24.68
		25	0	23.63	23.71	23.66
		25	12	23.66	23.7	23.6
		25	25	23.65	23.74	23.67
		50	0	23.73	23.77	23.63
	16QAM	1	0	23.83	23.88	23.87
		1	24	23.85	23.93	23.83
		1	49	23.88	23.88	23.94
		25	0	22.71	22.72	22.69
		25	12	22.76	22.73	22.67
		25	25	22.79	22.85	22.8
		50	0	22.67	22.65	22.69
	64QAM	1	0	22.83	22.84	22.8
		1	24	22.98	22.98	22.88
		1	49	22.86	22.86	22.95
		25	0	21.65	21.62	21.58
		25	12	21.64	21.71	21.62
		25	25	21.73	21.66	21.7
		50	0	21.61	21.73	21.6
	256QAM	1	0	19.63	19.63	19.68
		1	24	19.79	19.84	19.83
		1	49	19.52	19.81	19.74
		25	0	19.5	19.57	19.57
		25	12	19.73	19.69	19.68
		25	25	19.5	19.73	19.77
		50	0	19.62	19.62	19.62



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	24.61	24.69	24.55
		1	37	24.61	24.68	24.66
		1	74	24.71	24.7	24.66
		36	0	23.66	23.74	23.6
		36	19	23.6	23.78	23.68
		36	39	23.66	23.82	23.76
		75	0	23.64	23.8	23.76
	16QAM	1	0	23.72	23.85	23.78
		1	37	23.82	23.9	23.96
		1	74	23.84	23.88	23.83
		36	0	22.61	22.64	22.7
		36	19	22.64	22.67	22.72
		36	39	22.76	22.71	22.84
		75	0	22.61	22.72	22.67
	64QAM	1	0	22.81	22.93	22.79
		1	37	22.96	22.88	22.93
		1	74	22.78	22.89	22.89
		36	0	21.61	21.7	21.69
		36	19	21.67	21.6	21.62
		36	39	21.72	21.74	21.7
		75	0	21.73	21.6	21.62
	256QAM	1	0	19.67	19.57	19.61
		1	37	19.65	19.75	19.7
		1	74	19.51	19.79	19.85
		36	0	19.53	19.69	19.57
		36	19	19.64	19.65	19.72
		36	39	19.52	19.68	19.68
		75	0	19.69	19.64	19.63



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	24.7	24.71	24.57
		1	50	24.75	24.83	24.71
		1	99	24.72	24.8	24.69
		50	0	23.77	23.75	23.67
		50	25	23.74	23.82	23.74
		50	50	23.79	23.85	23.77
		100	0	23.78	23.81	23.78
	16QAM	1	0	23.85	23.9	23.88
		1	50	23.95	24	23.98
		1	99	23.9	23.95	23.96
		50	0	22.73	22.78	22.77
		50	25	22.79	22.76	22.73
		50	50	22.83	22.86	22.88
		100	0	22.72	22.73	22.72
	64QAM	1	0	22.93	22.95	22.93
		1	50	22.99	23.03	22.94
		1	99	22.93	22.99	22.98
		50	0	21.76	21.77	21.73
		50	25	21.76	21.74	21.73
		50	50	21.78	21.79	21.76
		100	0	21.76	21.75	21.72
	256QAM	1	0	19.69	19.7	19.71
		1	50	19.8	19.86	19.85
		1	99	19.63	19.88	19.87
		50	0	19.62	19.71	19.69
		50	25	19.75	19.76	19.74
		50	50	19.6	19.79	19.8
		100	0	19.72	19.74	19.73



# LTE Band 66\_Ant4

**BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	24.18	24.31	24.14
		1	2	24.29	24.3	24.25
		1	5	24.29	24.35	24.19
		3	0	24.23	24.14	24.06
		3	1	24.25	24.23	24.11
		3	3	24.18	24.16	24.1
		6	0	23.22	23.37	23.27
	16QAM	1	0	23.39	23.47	23.4
		1	2	23.5	23.47	23.48
		1	5	23.5	23.45	23.45
		3	0	23.07	23.13	23.06
		3	1	23.09	23.23	23.06
		3	3	23.2	23.25	23.3
		6	0	22.34	22.28	22.27
	64QAM	1	0	22.33	22.35	22.43
		1	2	22.43	22.46	22.47
		1	5	22.47	22.53	22.53
		3	0	22.15	22.26	22.16
		3	1	22.21	22.25	22.21
		3	3	22.21	22.23	22.14
		6	0	21.25	21.2	21.27
	256QAM	1	0	19.48	19.37	19.35
		1	2	19.48	19.57	19.42
		1	5	19.5	19.49	19.51
		3	0	19.24	19.2	19.29
		3	1	19.23	19.24	19.22
		3	3	19.26	19.4	19.32
		6	0	19.25	19.26	19.27



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	24.2	24.25	24.16
		1	7	24.39	24.32	24.37
		1	14	24.23	24.36	24.29
		8	0	23.3	23.28	23.28
		8	3	23.26	23.34	23.32
		8	7	23.33	23.3	23.33
		15	0	23.25	23.29	23.28
	16QAM	1	0	23.48	23.41	23.32
		1	7	23.46	23.45	23.47
		1	14	23.42	23.42	23.37
		8	0	22.24	22.25	22.22
		8	3	22.25	22.35	22.22
		8	7	22.36	22.46	22.37
		15	0	22.28	22.4	22.35
	64QAM	1	0	22.41	22.4	22.38
		1	7	22.34	22.45	22.47
		1	14	22.41	22.5	22.39
		8	0	21.32	21.38	21.31
		8	3	21.32	21.38	21.37
		8	7	21.39	21.3	21.23
		15	0	21.27	21.27	21.29
	256QAM	1	0	19.41	19.28	19.32
		1	7	19.43	19.61	19.39
		1	14	19.49	19.4	19.57
		8	0	19.33	19.19	19.34
		8	3	19.26	19.23	19.35
		8	7	19.22	19.39	19.28
		15	0	19.28	19.36	19.32



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	24.24	24.31	24.15
		1	12	24.27	24.32	24.37
		1	24	24.3	24.22	24.19
		12	0	23.27	23.29	23.19
		12	6	23.4	23.36	23.32
		12	13	23.35	23.37	23.36
		25	0	23.31	23.27	23.29
		25	0	23.31	23.27	23.29
	16QAM	1	0	23.49	23.38	23.4
		1	12	23.57	23.45	23.37
		1	24	23.4	23.51	23.49
		12	0	22.22	22.31	22.31
		12	6	22.23	22.32	22.3
		12	13	22.29	22.35	22.44
		25	0	22.32	22.31	22.35
		25	0	22.32	22.31	22.35
	64QAM	1	0	22.35	22.35	22.45
		1	12	22.44	22.43	22.45
		1	24	22.39	22.52	22.46
		12	0	21.33	21.31	21.34
		12	6	21.28	21.33	21.26
		12	13	21.31	21.42	21.35
		25	0	21.28	21.3	21.23
		25	0	21.28	21.3	21.23
	256QAM	1	0	19.46	19.32	19.38
		1	12	19.36	19.59	19.36
		1	24	19.52	19.46	19.55
		12	0	19.26	19.26	19.32
		12	6	19.34	19.23	19.26
		12	13	19.31	19.43	19.34
		25	0	19.24	19.29	19.33
		25	0	19.24	19.29	19.33



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	24.12	24.22	24.05
		1	24	24.34	24.27	24.11
		1	49	24.19	24.11	24.16
		25	0	23.2	23.17	23.18
		25	12	23.18	23.3	23.29
		25	25	23.21	23.18	23.23
		50	0	23.22	23.32	23.2
	16QAM	1	0	23.45	23.36	23.36
		1	24	23.34	23.34	23.33
		1	49	23.36	23.33	23.32
		25	0	22.1	22.19	22.25
		25	12	22.21	22.31	22.15
		25	25	22.31	22.42	22.31
		50	0	22.15	22.23	22.2
	64QAM	1	0	22.34	22.36	22.21
		1	24	22.27	22.35	22.44
		1	49	22.38	22.43	22.47
		25	0	21.39	21.31	21.19
		25	12	21.28	21.34	21.17
		25	25	21.29	21.35	21.24
		50	0	21.22	21.22	21.28
	256QAM	1	0	19.37	19.21	19.22
		1	24	19.42	19.38	19.38
		1	49	19.45	19.38	19.46
		25	0	19.27	19.16	19.17
		25	12	19.29	19.29	19.17
		25	25	19.16	19.4	19.16
		50	0	19.26	19.27	19.26



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	24.11	24.22	24.19
		1	37	24.3	24.3	24.29
		1	74	24.2	24.33	24.17
		36	0	23.39	23.22	23.22
		36	19	23.32	23.31	23.3
		36	39	23.37	23.3	23.32
		75	0	23.31	23.33	23.28
	16QAM	1	0	23.35	23.43	23.46
		1	37	23.56	23.44	23.38
		1	74	23.44	23.4	23.37
		36	0	22.21	22.3	22.29
		36	19	22.31	22.27	22.21
		36	39	22.31	22.46	22.42
		75	0	22.36	22.33	22.25
	64QAM	1	0	22.27	22.43	22.36
		1	37	22.35	22.48	22.42
		1	74	22.45	22.52	22.52
		36	0	21.28	21.39	21.28
		36	19	21.3	21.36	21.32
		36	39	21.33	21.35	21.33
		75	0	21.28	21.24	21.25
	256QAM	1	0	19.38	19.4	19.34
		1	37	19.42	19.58	19.36
		1	74	19.54	19.4	19.53
		36	0	19.22	19.21	19.32
		36	19	19.23	19.3	19.31
		36	39	19.22	19.34	19.28
		75	0	19.34	19.23	19.37



BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	24.26	24.34	24.23
		1	50	24.41	24.44	24.4
		1	99	24.35	24.37	24.32
		50	0	23.4	23.36	23.33
		50	25	23.41	23.42	23.4
		50	50	23.38	23.41	23.39
		100	0	23.36	23.4	23.37
	16QAM	1	0	23.5	23.52	23.47
		1	50	23.59	23.57	23.52
		1	99	23.52	23.55	23.5
		50	0	22.35	22.36	22.32
		50	25	22.38	22.39	22.35
		50	50	22.4	22.49	22.46
		100	0	22.39	22.43	22.36
	64QAM	1	0	22.42	22.49	22.47
		1	50	22.48	22.55	22.52
		1	99	22.5	22.57	22.54
		50	0	21.42	21.43	21.41
		50	25	21.38	21.4	21.39
		50	50	21.44	21.45	21.38
		100	0	21.33	21.35	21.32
	256QAM	1	0	19.52	19.43	19.44
		1	50	19.49	19.62	19.5
		1	99	19.61	19.53	19.6
		50	0	19.36	19.33	19.39
		50	25	19.38	19.37	19.36
		50	50	19.35	19.47	19.41
		100	0	19.39	19.37	19.42



**EIRP**

**LTE Band 4\_Ant0**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	20050	1720	23.72	-3.81	19.91	97.95	1
	20175	1732.5	23.76	-3.81	19.95	98.86	1
	20300	1745	23.85	-3.81	20.04	100.93	1
20M-16QAM	20050	1720	22.90	-3.81	19.09	81.10	1
	20175	1732.5	22.95	-3.81	19.14	82.04	1
	20300	1745	22.99	-3.81	19.18	82.79	1
20M-64QAM	20050	1720	21.87	-3.81	18.06	63.97	1
	20175	1732.5	21.88	-3.81	18.07	64.12	1
	20300	1745	21.86	-3.81	18.05	63.83	1
20M-256QAM	20050	1720	18.88	-3.81	15.07	32.14	1
	20175	1732.5	18.89	-3.81	15.08	32.21	1
	20300	1745	18.88	-3.81	15.07	32.14	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	20025	1717.5	23.67	-3.81	19.86	96.83	1
	20175	1732.5	23.70	-3.81	19.89	97.50	1
	20325	1747.5	23.68	-3.81	19.87	97.05	1
15M-16QAM	20025	1717.5	22.77	-3.81	18.96	78.70	1
	20175	1732.5	22.93	-3.81	19.12	81.66	1
	20325	1747.5	22.88	-3.81	19.07	80.72	1
15M-64QAM	20025	1717.5	21.86	-3.81	18.05	63.83	1
	20175	1732.5	21.87	-3.81	18.06	63.97	1
	20325	1747.5	21.74	-3.81	17.93	62.09	1
15M-256QAM	20025	1717.5	18.74	-3.81	14.93	31.12	1
	20175	1732.5	18.85	-3.81	15.04	31.92	1
	20325	1747.5	18.82	-3.81	15.01	31.70	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	20000	1715	23.58	-3.81	19.77	94.84	1
	20175	1732.5	23.74	-3.81	19.93	98.40	1
	20350	1750	23.78	-3.81	19.97	99.31	1
10M-	20000	1715	22.87	-3.81	19.06	80.54	1



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16QAM	20175	1732.5	22.94	-3.81	19.13	81.85	1
	20350	1750	22.91	-3.81	19.10	81.28	1
10M-64QAM	20000	1715	21.79	-3.81	17.98	62.81	1
	20175	1732.5	21.77	-3.81	17.96	62.52	1
	20350	1750	21.77	-3.81	17.96	62.52	1
10M-256QAM	20000	1715	18.87	-3.81	15.06	32.06	1
	20175	1732.5	18.77	-3.81	14.96	31.33	1
	20350	1750	18.80	-3.81	14.99	31.55	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	19975	1712.5	23.61	-3.81	19.80	95.50	1
	20175	1732.5	23.68	-3.81	19.87	97.05	1
	20375	1752.5	23.61	-3.81	19.80	95.50	1
5M-16QAM	19975	1712.5	22.67	-3.81	18.86	76.91	1
	20175	1732.5	22.77	-3.81	18.96	78.70	1
	20375	1752.5	22.85	-3.81	19.04	80.17	1
5M-64QAM	19975	1712.5	21.70	-3.81	17.89	61.52	1
	20175	1732.5	21.69	-3.81	17.88	61.38	1
	20375	1752.5	21.77	-3.81	17.96	62.52	1
5M-256QAM	19975	1712.5	18.74	-3.81	14.93	31.12	1
	20175	1732.5	18.79	-3.81	14.98	31.48	1
	20375	1752.5	18.70	-3.81	14.89	30.83	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	19965	1711.5	23.64	-3.81	19.83	96.16	1
	20175	1732.5	23.74	-3.81	19.93	98.40	1
	20385	1753.5	23.72	-3.81	19.91	97.95	1
3M-16QAM	19965	1711.5	22.78	-3.81	18.97	78.89	1
	20175	1732.5	22.92	-3.81	19.11	81.47	1
	20385	1753.5	22.93	-3.81	19.12	81.66	1
3M-64QAM	19965	1711.5	21.73	-3.81	17.92	61.94	1
	20175	1732.5	21.78	-3.81	17.97	62.66	1
	20385	1753.5	21.81	-3.81	18.00	63.10	1
3M-256QAM	19965	1711.5	18.76	-3.81	14.95	31.26	1
	20175	1732.5	18.88	-3.81	15.07	32.14	1
	20385	1753.5	18.78	-3.81	14.97	31.41	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)



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1.4M-QPSK	19957	1710.7	23.63	-3.81	19.82	95.94	1
	20175	1732.5	23.57	-3.81	19.76	94.62	1
	20393	1754.3	23.61	-3.81	19.80	95.50	1
1.4M-16QAM	19957	1710.7	22.76	-3.81	18.95	78.52	1
	20175	1732.5	22.78	-3.81	18.97	78.89	1
	20393	1754.3	22.89	-3.81	19.08	80.91	1
1.4M-64QAM	19957	1710.7	21.68	-3.81	17.87	61.24	1
	20175	1732.5	21.70	-3.81	17.89	61.52	1
	20393	1754.3	21.75	-3.81	17.94	62.23	1
1.4M-256QAM	19957	1710.7	18.78	-3.81	14.97	31.41	1
	20175	1732.5	18.71	-3.81	14.90	30.90	1
	20393	1754.3	18.83	-3.81	15.02	31.77	1



**LTE Band 4\_Ant2**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	20050	1720	24.72	-1.08	23.64	231.21	1
	20175	1732.5	24.77	-1.08	23.69	233.88	1
	20300	1745	24.76	-1.08	23.68	233.35	1
20M-16QAM	20050	1720	23.77	-1.08	22.69	185.78	1
	20175	1732.5	23.74	-1.08	22.66	184.50	1
	20300	1745	23.62	-1.08	22.54	179.47	1
20M-64QAM	20050	1720	22.64	-1.08	21.56	143.22	1
	20175	1732.5	22.75	-1.08	21.67	146.89	1
	20300	1745	22.67	-1.08	21.59	144.21	1
20M-256QAM	20050	1720	19.87	-1.08	18.79	75.68	1
	20175	1732.5	19.89	-1.08	18.81	76.03	1
	20300	1745	19.87	-1.08	18.79	75.68	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	20025	1717.5	24.60	-1.08	23.52	224.91	1
	20175	1732.5	24.68	-1.08	23.60	229.09	1
	20325	1747.5	24.66	-1.08	23.58	228.03	1
15M-16QAM	20025	1717.5	23.70	-1.08	22.62	182.81	1
	20175	1732.5	23.71	-1.08	22.63	183.23	1
	20325	1747.5	23.56	-1.08	22.48	177.01	1
15M-64QAM	20025	1717.5	22.61	-1.08	21.53	142.23	1
	20175	1732.5	22.72	-1.08	21.64	145.88	1
	20325	1747.5	22.65	-1.08	21.57	143.55	1
15M-256QAM	20025	1717.5	19.83	-1.08	18.75	74.99	1
	20175	1732.5	19.85	-1.08	18.77	75.34	1
	20325	1747.5	19.86	-1.08	18.78	75.51	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	20000	1715	24.69	-1.08	23.61	229.61	1
	20175	1732.5	24.74	-1.08	23.66	232.27	1
	20350	1750	24.71	-1.08	23.63	230.67	1
10M-16QAM	20000	1715	23.72	-1.08	22.64	183.65	1
	20175	1732.5	23.61	-1.08	22.53	179.06	1
	20350	1750	23.60	-1.08	22.52	178.65	1
10M-	20000	1715	22.60	-1.08	21.52	141.91	1

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64QAM	20175	1732.5	22.65	-1.08	21.57	143.55	1
	20350	1750	22.64	-1.08	21.56	143.22	1
10M-256QAM	20000	1715	19.84	-1.08	18.76	75.16	1
	20175	1732.5	19.81	-1.08	18.73	74.64	1
	20350	1750	19.74	-1.08	18.66	73.45	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	19975	1712.5	24.51	-1.08	23.43	220.29	1
	20175	1732.5	24.63	-1.08	23.55	226.46	1
	20375	1752.5	24.55	-1.08	23.47	222.33	1
5M-16QAM	19975	1712.5	23.69	-1.08	22.61	182.39	1
	20175	1732.5	23.58	-1.08	22.50	177.83	1
	20375	1752.5	23.47	-1.08	22.39	173.38	1
5M-64QAM	19975	1712.5	22.48	-1.08	21.40	138.04	1
	20175	1732.5	22.62	-1.08	21.54	142.56	1
	20375	1752.5	22.57	-1.08	21.49	140.93	1
5M-256QAM	19975	1712.5	19.63	-1.08	18.55	71.61	1
	20175	1732.5	19.77	-1.08	18.69	73.96	1
	20375	1752.5	19.70	-1.08	18.62	72.78	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	19965	1711.5	24.59	-1.08	23.51	224.39	1
	20175	1732.5	24.64	-1.08	23.56	226.99	1
	20385	1753.5	24.75	-1.08	23.67	232.81	1
3M-16QAM	19965	1711.5	23.73	-1.08	22.65	184.08	1
	20175	1732.5	23.62	-1.08	22.54	179.47	1
	20385	1753.5	23.53	-1.08	22.45	175.79	1
3M-64QAM	19965	1711.5	22.57	-1.08	21.49	140.93	1
	20175	1732.5	22.71	-1.08	21.63	145.55	1
	20385	1753.5	22.58	-1.08	21.50	141.25	1
3M-256QAM	19965	1711.5	19.86	-1.08	18.78	75.51	1
	20175	1732.5	19.87	-1.08	18.79	75.68	1
	20385	1753.5	19.81	-1.08	18.73	74.64	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	19957	1710.7	24.71	-1.08	23.63	230.67	1
	20175	1732.5	24.70	-1.08	23.62	230.14	1
	20393	1754.3	24.66	-1.08	23.58	228.03	1



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1.4M-16QAM	19957	1710.7	23.67	-1.08	22.59	181.55	1
	20175	1732.5	23.70	-1.08	22.62	182.81	1
	20393	1754.3	23.69	-1.08	22.61	182.39	1
1.4M-64QAM	19957	1710.7	22.62	-1.08	21.54	142.56	1
	20175	1732.5	22.70	-1.08	21.62	145.21	1
	20393	1754.3	22.58	-1.08	21.50	141.25	1
1.4M-256QAM	19957	1710.7	19.73	-1.08	18.65	73.28	1
	20175	1732.5	19.81	-1.08	18.73	74.64	1
	20393	1754.3	19.85	-1.08	18.77	75.34	1



**LTE Band 4\_Ant3**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	20050	1720	24.67	-2.08	22.59	181.55	1
	20175	1732.5	24.59	-2.08	22.51	178.24	1
	20300	1745	24.65	-2.08	22.57	180.72	1
20M-16QAM	20050	1720	23.77	-2.08	21.69	147.57	1
	20175	1732.5	23.70	-2.08	21.62	145.21	1
	20300	1745	23.66	-2.08	21.58	143.88	1
20M-64QAM	20050	1720	22.83	-2.08	20.75	118.85	1
	20175	1732.5	22.69	-2.08	20.61	115.08	1
	20300	1745	22.72	-2.08	20.64	115.88	1
20M-256QAM	20050	1720	19.79	-2.08	17.71	59.02	1
	20175	1732.5	19.71	-2.08	17.63	57.94	1
	20300	1745	19.67	-2.08	17.59	57.41	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	20025	1717.5	24.55	-2.08	22.47	176.60	1
	20175	1732.5	24.55	-2.08	22.47	176.60	1
	20325	1747.5	24.59	-2.08	22.51	178.24	1
15M-16QAM	20025	1717.5	23.72	-2.08	21.64	145.88	1
	20175	1732.5	23.65	-2.08	21.57	143.55	1
	20325	1747.5	23.61	-2.08	21.53	142.23	1
15M-64QAM	20025	1717.5	22.72	-2.08	20.64	115.88	1
	20175	1732.5	22.64	-2.08	20.56	113.76	1
	20325	1747.5	22.71	-2.08	20.63	115.61	1
15M-256QAM	20025	1717.5	19.72	-2.08	17.64	58.08	1
	20175	1732.5	19.65	-2.08	17.57	57.15	1
	20325	1747.5	19.62	-2.08	17.54	56.75	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	20000	1715	24.63	-2.08	22.55	179.89	1
	20175	1732.5	24.45	-2.08	22.37	172.58	1
	20350	1750	24.64	-2.08	22.56	180.30	1
10M-16QAM	20000	1715	23.63	-2.08	21.55	142.89	1
	20175	1732.5	23.59	-2.08	21.51	141.58	1
	20350	1750	23.64	-2.08	21.56	143.22	1
10M-	20000	1715	22.81	-2.08	20.73	118.30	1

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64QAM	20175	1732.5	22.67	-2.08	20.59	114.55	1
	20350	1750	22.66	-2.08	20.58	114.29	1
10M-256QAM	20000	1715	19.72	-2.08	17.64	58.08	1
	20175	1732.5	19.64	-2.08	17.56	57.02	1
	20350	1750	19.60	-2.08	17.52	56.49	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	19975	1712.5	24.54	-2.08	22.46	176.20	1
	20175	1732.5	24.54	-2.08	22.46	176.20	1
	20375	1752.5	24.53	-2.08	22.45	175.79	1
5M-16QAM	19975	1712.5	23.60	-2.08	21.52	141.91	1
	20175	1732.5	23.54	-2.08	21.46	139.96	1
	20375	1752.5	23.51	-2.08	21.43	139.00	1
5M-64QAM	19975	1712.5	22.71	-2.08	20.63	115.61	1
	20175	1732.5	22.53	-2.08	20.45	110.92	1
	20375	1752.5	22.70	-2.08	20.62	115.35	1
5M-256QAM	19975	1712.5	19.69	-2.08	17.61	57.68	1
	20175	1732.5	19.58	-2.08	17.50	56.23	1
	20375	1752.5	19.58	-2.08	17.50	56.23	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	19965	1711.5	24.60	-2.08	22.52	178.65	1
	20175	1732.5	24.50	-2.08	22.42	174.58	1
	20385	1753.5	24.52	-2.08	22.44	175.39	1
3M-16QAM	19965	1711.5	23.64	-2.08	21.56	143.22	1
	20175	1732.5	23.56	-2.08	21.48	140.60	1
	20385	1753.5	23.65	-2.08	21.57	143.55	1
3M-64QAM	19965	1711.5	22.75	-2.08	20.67	116.68	1
	20175	1732.5	22.60	-2.08	20.52	112.72	1
	20385	1753.5	22.61	-2.08	20.53	112.98	1
3M-256QAM	19965	1711.5	19.73	-2.08	17.65	58.21	1
	20175	1732.5	19.64	-2.08	17.56	57.02	1
	20385	1753.5	19.61	-2.08	17.53	56.62	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	19957	1710.7	24.62	-2.08	22.54	179.47	1
	20175	1732.5	24.56	-2.08	22.48	177.01	1
	20393	1754.3	24.54	-2.08	22.46	176.20	1



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1.4M-16QAM	19957	1710.7	23.68	-2.08	21.60	144.54	1
	20175	1732.5	23.48	-2.08	21.40	138.04	1
	20393	1754.3	23.51	-2.08	21.43	139.00	1
1.4M-64QAM	19957	1710.7	22.71	-2.08	20.63	115.61	1
	20175	1732.5	22.50	-2.08	20.42	110.15	1
	20393	1754.3	22.57	-2.08	20.49	111.94	1
1.4M-256QAM	19957	1710.7	19.65	-2.08	17.57	57.15	1
	20175	1732.5	19.57	-2.08	17.49	56.10	1
	20393	1754.3	19.57	-2.08	17.49	56.10	1



**LTE Band 4\_Ant4**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	20050	1720	24.41	-4.27	20.14	103.28	1
	20175	1732.5	24.49	-4.27	20.22	105.20	1
	20300	1745	24.46	-4.27	20.19	104.47	1
20M-16QAM	20050	1720	23.58	-4.27	19.31	85.31	1
	20175	1732.5	23.69	-4.27	19.42	87.50	1
	20300	1745	23.65	-4.27	19.38	86.70	1
20M-64QAM	20050	1720	22.49	-4.27	18.22	66.37	1
	20175	1732.5	22.53	-4.27	18.26	66.99	1
	20300	1745	22.50	-4.27	18.23	66.53	1
20M-256QAM	20050	1720	19.55	-4.27	15.28	33.73	1
	20175	1732.5	19.62	-4.27	15.35	34.28	1
	20300	1745	19.50	-4.27	15.23	33.34	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	20025	1717.5	24.54	-4.27	20.27	106.41	1
	20175	1732.5	24.36	-4.27	20.09	102.09	1
	20325	1747.5	24.39	-4.27	20.12	102.80	1
15M-16QAM	20025	1717.5	23.56	-4.27	19.29	84.92	1
	20175	1732.5	23.42	-4.27	19.15	82.22	1
	20325	1747.5	23.38	-4.27	19.11	81.47	1
15M-64QAM	20025	1717.5	22.64	-4.27	18.37	68.71	1
	20175	1732.5	22.41	-4.27	18.14	65.16	1
	20325	1747.5	22.51	-4.27	18.24	66.68	1
15M-256QAM	20025	1717.5	19.57	-4.27	15.30	33.88	1
	20175	1732.5	19.43	-4.27	15.16	32.81	1
	20325	1747.5	19.52	-4.27	15.25	33.50	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	20000	1715	24.49	-4.27	20.22	105.20	1
	20175	1732.5	24.38	-4.27	20.11	102.57	1
	20350	1750	24.40	-4.27	20.13	103.04	1
10M-16QAM	20000	1715	23.56	-4.27	19.29	84.92	1
	20175	1732.5	23.44	-4.27	19.17	82.60	1
	20350	1750	23.36	-4.27	19.09	81.10	1
10M-	20000	1715	22.58	-4.27	18.31	67.76	1

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64QAM	20175	1732.5	22.40	-4.27	18.13	65.01	1
	20350	1750	22.55	-4.27	18.28	67.30	1
10M-256QAM	20000	1715	19.55	-4.27	15.28	33.73	1
	20175	1732.5	19.51	-4.27	15.24	33.42	1
	20350	1750	19.54	-4.27	15.27	33.65	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	19975	1712.5	24.36	-4.27	20.09	102.09	1
	20175	1732.5	24.43	-4.27	20.16	103.75	1
	20375	1752.5	24.44	-4.27	20.17	103.99	1
5M-16QAM	19975	1712.5	23.56	-4.27	19.29	84.92	1
	20175	1732.5	23.62	-4.27	19.35	86.10	1
	20375	1752.5	23.52	-4.27	19.25	84.14	1
5M-64QAM	19975	1712.5	22.47	-4.27	18.20	66.07	1
	20175	1732.5	22.46	-4.27	18.19	65.92	1
	20375	1752.5	22.37	-4.27	18.10	64.57	1
5M-256QAM	19975	1712.5	19.46	-4.27	15.19	33.04	1
	20175	1732.5	19.58	-4.27	15.31	33.96	1
	20375	1752.5	19.41	-4.27	15.14	32.66	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	19965	1711.5	24.21	-4.27	19.94	98.63	1
	20175	1732.5	24.38	-4.27	20.11	102.57	1
	20385	1753.5	24.22	-4.27	19.95	98.86	1
3M-16QAM	19965	1711.5	23.42	-4.27	19.15	82.22	1
	20175	1732.5	23.41	-4.27	19.14	82.04	1
	20385	1753.5	23.55	-4.27	19.28	84.72	1
3M-64QAM	19965	1711.5	22.38	-4.27	18.11	64.71	1
	20175	1732.5	22.36	-4.27	18.09	64.42	1
	20385	1753.5	22.33	-4.27	18.06	63.97	1
3M-256QAM	19965	1711.5	19.42	-4.27	15.15	32.73	1
	20175	1732.5	19.47	-4.27	15.20	33.11	1
	20385	1753.5	19.34	-4.27	15.07	32.14	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	19957	1710.7	24.33	-4.27	20.06	101.39	1
	20175	1732.5	24.40	-4.27	20.13	103.04	1
	20393	1754.3	24.36	-4.27	20.09	102.09	1



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1.4M-16QAM	19957	1710.7	23.53	-4.27	19.26	84.33	1
	20175	1732.5	23.67	-4.27	19.40	87.10	1
	20393	1754.3	23.51	-4.27	19.24	83.95	1
1.4M-64QAM	19957	1710.7	22.45	-4.27	18.18	65.77	1
	20175	1732.5	22.42	-4.27	18.15	65.31	1
	20393	1754.3	22.40	-4.27	18.13	65.01	1
1.4M-256QAM	19957	1710.7	19.42	-4.27	15.15	32.73	1
	20175	1732.5	19.55	-4.27	15.28	33.73	1
	20393	1754.3	19.43	-4.27	15.16	32.81	1



**LTE Band 38\_Ant0**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	37850	2580	23.75	-3.24	20.51	112.46	2
	38000	2595	23.78	-3.24	20.54	113.24	2
	38150	2610	23.73	-3.24	20.49	111.94	2
20M- 16QAM	37850	2580	22.68	-3.24	19.44	87.90	2
	38000	2595	22.60	-3.24	19.36	86.30	2
	38150	2610	22.55	-3.24	19.31	85.31	2
20M- 64QAM	37850	2580	21.97	-3.24	18.73	74.64	2
	38000	2595	21.82	-3.24	18.58	72.11	2
	38150	2610	21.96	-3.24	18.72	74.47	2
20M- 256QAM	37850	2580	18.89	-3.24	15.65	36.73	2
	38000	2595	18.77	-3.24	15.53	35.73	2
	38150	2610	18.81	-3.24	15.57	36.06	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	37825	2577.5	23.73	-3.24	20.49	111.94	2
	38000	2595	23.65	-3.24	20.41	109.90	2
	38175	2612.5	23.60	-3.24	20.36	108.64	2
15M- 16QAM	37825	2577.5	22.61	-3.24	19.37	86.50	2
	38000	2595	22.53	-3.24	19.29	84.92	2
	38175	2612.5	22.46	-3.24	19.22	83.56	2
15M- 64QAM	37825	2577.5	21.92	-3.24	18.68	73.79	2
	38000	2595	21.74	-3.24	18.50	70.79	2
	38175	2612.5	21.88	-3.24	18.64	73.11	2
15M- 256QAM	37825	2577.5	18.85	-3.24	15.61	36.39	2
	38000	2595	18.71	-3.24	15.47	35.24	2
	38175	2612.5	18.74	-3.24	15.50	35.48	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	37800	2575	23.63	-3.24	20.39	109.40	2
	38000	2595	23.68	-3.24	20.44	110.66	2
	38200	2615	23.61	-3.24	20.37	108.89	2
10M- 16QAM	37800	2575	22.65	-3.24	19.41	87.30	2
	38000	2595	22.58	-3.24	19.34	85.90	2
	38200	2615	22.45	-3.24	19.21	83.37	2
10M-	37800	2575	21.83	-3.24	18.59	72.28	2

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64QAM	38000	2595	21.80	-3.24	18.56	71.78	2
	38200	2615	21.92	-3.24	18.68	73.79	2
10M-256QAM	37800	2575	18.85	-3.24	15.61	36.39	2
	38000	2595	18.68	-3.24	15.44	34.99	2
	38200	2615	18.74	-3.24	15.50	35.48	2
<b>BW [MHz] Modulation</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Conducted Power (dBm)</b>	<b>Gain (dB)</b>	<b>EIRP (dBm)</b>	<b>EIRP (mW)</b>	<b>Limit (W)</b>
5M-QPSK	37775	2572.5	23.71	-3.24	20.47	111.43	2
	38000	2595	23.65	-3.24	20.41	109.90	2
	38225	2617.5	23.59	-3.24	20.35	108.39	2
5M-16QAM	37775	2572.5	22.59	-3.24	19.35	86.10	2
	38000	2595	22.59	-3.24	19.35	86.10	2
	38225	2617.5	22.43	-3.24	19.19	82.99	2
5M-64QAM	37775	2572.5	21.89	-3.24	18.65	73.28	2
	38000	2595	21.71	-3.24	18.47	70.31	2
	38225	2617.5	21.86	-3.24	18.62	72.78	2
5M-256QAM	37775	2572.5	18.84	-3.24	15.60	36.31	2
	38000	2595	18.71	-3.24	15.47	35.24	2
	38225	2617.5	18.79	-3.24	15.55	35.89	2



**LTE Band 38\_Ant2**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	37850	2580	24.54	-1.55	22.99	199.07	2
	38000	2595	24.68	-1.55	23.13	205.59	2
	38150	2610	24.65	-1.55	23.10	204.17	2
20M- 16QAM	37850	2580	23.66	-1.55	22.11	162.55	2
	38000	2595	23.68	-1.55	22.13	163.31	2
	38150	2610	23.71	-1.55	22.16	164.44	2
20M- 64QAM	37850	2580	22.75	-1.55	21.20	131.83	2
	38000	2595	22.72	-1.55	21.17	130.92	2
	38150	2610	22.80	-1.55	21.25	133.35	2
20M- 256QAM	37850	2580	19.57	-1.55	18.02	63.39	2
	38000	2595	19.63	-1.55	18.08	64.27	2
	38150	2610	19.68	-1.55	18.13	65.01	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	37825	2577.5	24.47	-1.55	22.92	195.88	2
	38000	2595	24.57	-1.55	23.02	200.45	2
	38175	2612.5	24.63	-1.55	23.08	203.24	2
15M- 16QAM	37825	2577.5	23.54	-1.55	21.99	158.12	2
	38000	2595	23.66	-1.55	22.11	162.55	2
	38175	2612.5	23.64	-1.55	22.09	161.81	2
15M- 64QAM	37825	2577.5	22.71	-1.55	21.16	130.62	2
	38000	2595	22.68	-1.55	21.13	129.72	2
	38175	2612.5	22.74	-1.55	21.19	131.52	2
15M- 256QAM	37825	2577.5	19.52	-1.55	17.97	62.66	2
	38000	2595	19.51	-1.55	17.96	62.52	2
	38175	2612.5	19.61	-1.55	18.06	63.97	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	37800	2575	24.49	-1.55	22.94	196.79	2
	38000	2595	24.53	-1.55	22.98	198.61	2
	38200	2615	24.62	-1.55	23.07	202.77	2
10M- 16QAM	37800	2575	23.62	-1.55	22.07	161.06	2
	38000	2595	23.58	-1.55	22.03	159.59	2
	38200	2615	23.64	-1.55	22.09	161.81	2
10M-	37800	2575	22.66	-1.55	21.11	129.12	2

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64QAM	38000	2595	22.59	-1.55	21.04	127.06	2
	38200	2615	22.74	-1.55	21.19	131.52	2
10M-256QAM	37800	2575	19.49	-1.55	17.94	62.23	2
	38000	2595	19.49	-1.55	17.94	62.23	2
	38200	2615	19.64	-1.55	18.09	64.42	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	37775	2572.5	24.48	-1.55	22.93	196.34	2
	38000	2595	24.54	-1.55	22.99	199.07	2
	38225	2617.5	24.52	-1.55	22.97	198.15	2
5M-16QAM	37775	2572.5	23.59	-1.55	22.04	159.96	2
	38000	2595	23.60	-1.55	22.05	160.32	2
	38225	2617.5	23.62	-1.55	22.07	161.06	2
5M-64QAM	37775	2572.5	22.61	-1.55	21.06	127.64	2
	38000	2595	22.67	-1.55	21.12	129.42	2
	38225	2617.5	22.77	-1.55	21.22	132.43	2
5M-256QAM	37775	2572.5	19.52	-1.55	17.97	62.66	2
	38000	2595	19.50	-1.55	17.95	62.37	2
	38225	2617.5	19.63	-1.55	18.08	64.27	2



**LTE Band 38\_Ant3**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	37850	2580	24.79	-2.72	22.07	161.06	2
	38000	2595	24.82	-2.72	22.10	162.18	2
	38150	2610	24.74	-2.72	22.02	159.22	2
20M-16QAM	37850	2580	23.82	-2.72	21.10	128.82	2
	38000	2595	23.89	-2.72	21.17	130.92	2
	38150	2610	23.80	-2.72	21.08	128.23	2
20M-64QAM	37850	2580	22.97	-2.72	20.25	105.93	2
	38000	2595	22.98	-2.72	20.26	106.17	2
	38150	2610	22.87	-2.72	20.15	103.51	2
20M-256QAM	37850	2580	19.82	-2.72	17.10	51.29	2
	38000	2595	19.88	-2.72	17.16	52.00	2
	38150	2610	19.80	-2.72	17.08	51.05	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	37825	2577.5	24.68	-2.72	21.96	157.04	2
	38000	2595	24.70	-2.72	21.98	157.76	2
	38175	2612.5	24.65	-2.72	21.93	155.96	2
15M-16QAM	37825	2577.5	23.67	-2.72	20.95	124.45	2
	38000	2595	23.80	-2.72	21.08	128.23	2
	38175	2612.5	23.70	-2.72	20.98	125.31	2
15M-64QAM	37825	2577.5	22.91	-2.72	20.19	104.47	2
	38000	2595	22.89	-2.72	20.17	103.99	2
	38175	2612.5	22.77	-2.72	20.05	101.16	2
15M-256QAM	37825	2577.5	19.79	-2.72	17.07	50.93	2
	38000	2595	19.82	-2.72	17.10	51.29	2
	38175	2612.5	19.79	-2.72	17.07	50.93	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	37800	2575	24.78	-2.72	22.06	160.69	2
	38000	2595	24.68	-2.72	21.96	157.04	2
	38200	2615	24.68	-2.72	21.96	157.04	2
10M-16QAM	37800	2575	23.69	-2.72	20.97	125.03	2
	38000	2595	23.85	-2.72	21.13	129.72	2
	38200	2615	23.73	-2.72	21.01	126.18	2
10M-	37800	2575	22.95	-2.72	20.23	105.44	2

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64QAM	38000	2595	22.88	-2.72	20.16	103.75	2
	38200	2615	22.80	-2.72	20.08	101.86	2
10M-256QAM	37800	2575	19.77	-2.72	17.05	50.70	2
	38000	2595	19.84	-2.72	17.12	51.52	2
	38200	2615	19.74	-2.72	17.02	50.35	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	37775	2572.5	24.75	-2.72	22.03	159.59	2
	38000	2595	24.67	-2.72	21.95	156.68	2
	38225	2617.5	24.64	-2.72	21.92	155.60	2
5M-16QAM	37775	2572.5	23.71	-2.72	20.99	125.60	2
	38000	2595	23.83	-2.72	21.11	129.12	2
	38225	2617.5	23.67	-2.72	20.95	124.45	2
5M-64QAM	37775	2572.5	22.90	-2.72	20.18	104.23	2
	38000	2595	22.91	-2.72	20.19	104.47	2
	38225	2617.5	22.78	-2.72	20.06	101.39	2
5M-256QAM	37775	2572.5	19.79	-2.72	17.07	50.93	2
	38000	2595	19.80	-2.72	17.08	51.05	2
	38225	2617.5	19.71	-2.72	16.99	50.00	2



**LTE Band 38\_Ant4**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	37850	2580	23.91	0.09	24.00	251.19	2
	38000	2595	23.93	0.09	24.02	252.35	2
	38150	2610	23.99	0.09	24.08	255.86	2
20M- 16QAM	37850	2580	22.91	0.09	23.00	199.53	2
	38000	2595	22.91	0.09	23.00	199.53	2
	38150	2610	23.03	0.09	23.12	205.12	2
20M- 64QAM	37850	2580	22.11	0.09	22.20	165.96	2
	38000	2595	21.98	0.09	22.07	161.06	2
	38150	2610	22.09	0.09	22.18	165.20	2
20M- 256QAM	37850	2580	19.05	0.09	19.14	82.04	2
	38000	2595	18.97	0.09	19.06	80.54	2
	38150	2610	19.08	0.09	19.17	82.60	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	37825	2577.5	23.87	0.09	23.96	248.89	2
	38000	2595	23.85	0.09	23.94	247.74	2
	38175	2612.5	23.90	0.09	23.99	250.61	2
15M- 16QAM	37825	2577.5	22.77	0.09	22.86	193.20	2
	38000	2595	22.83	0.09	22.92	195.88	2
	38175	2612.5	22.99	0.09	23.08	203.24	2
15M- 64QAM	37825	2577.5	22.09	0.09	22.18	165.20	2
	38000	2595	21.89	0.09	21.98	157.76	2
	38175	2612.5	22.08	0.09	22.17	164.82	2
15M- 256QAM	37825	2577.5	18.93	0.09	19.02	79.80	2
	38000	2595	18.93	0.09	19.02	79.80	2
	38175	2612.5	18.98	0.09	19.07	80.72	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	37800	2575	23.82	0.09	23.91	246.04	2
	38000	2595	23.88	0.09	23.97	249.46	2
	38200	2615	23.95	0.09	24.04	253.51	2
10M- 16QAM	37800	2575	22.84	0.09	22.93	196.34	2
	38000	2595	22.78	0.09	22.87	193.64	2
	38200	2615	22.98	0.09	23.07	202.77	2
10M-	37800	2575	22.01	0.09	22.10	162.18	2

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64QAM	38000	2595	21.91	0.09	22.00	158.49	2
	38200	2615	22.02	0.09	22.11	162.55	2
10M-256QAM	37800	2575	19.04	0.09	19.13	81.85	2
	38000	2595	18.93	0.09	19.02	79.80	2
	38200	2615	19.07	0.09	19.16	82.41	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	37775	2572.5	23.87	0.09	23.96	248.89	2
	38000	2595	23.88	0.09	23.97	249.46	2
	38225	2617.5	23.90	0.09	23.99	250.61	2
5M-16QAM	37775	2572.5	22.88	0.09	22.97	198.15	2
	38000	2595	22.90	0.09	22.99	199.07	2
	38225	2617.5	22.92	0.09	23.01	199.99	2
5M-64QAM	37775	2572.5	22.08	0.09	22.17	164.82	2
	38000	2595	21.95	0.09	22.04	159.96	2
	38225	2617.5	22.01	0.09	22.10	162.18	2
5M-256QAM	37775	2572.5	18.91	0.09	19.00	79.43	2
	38000	2595	18.93	0.09	19.02	79.80	2
	38225	2617.5	19.04	0.09	19.13	81.85	2



**LTE Band 41\_Ant0**

LTE Band 41_Ant0							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	39750	2506	23.86	-3.04	20.82	120.78	2
	40185	2549.5	23.73	-3.04	20.69	117.22	2
	40620	2593	23.81	-3.04	20.77	119.40	2
	41055	2636.5	23.52	-3.04	20.48	111.69	2
	41490	2680	23.38	-3.04	20.34	108.14	2
20M-16QAM	39750	2506	22.89	-3.04	19.85	96.61	2
	40185	2549.5	22.84	-3.04	19.80	95.50	2
	40620	2593	22.86	-3.04	19.82	95.94	2
	41055	2636.5	22.34	-3.04	19.30	85.11	2
	41490	2680	22.45	-3.04	19.41	87.30	2
20M-64QAM	39750	2506	21.91	-3.04	18.87	77.09	2
	40185	2549.5	21.82	-3.04	18.78	75.51	2
	40620	2593	21.89	-3.04	18.85	76.74	2
	41055	2636.5	21.32	-3.04	18.28	67.30	2
	41490	2680	21.46	-3.04	18.42	69.50	2
20M-256QAM	39750	2506	18.90	-3.04	15.86	38.55	2
	40185	2549.5	18.76	-3.04	15.72	37.33	2
	40620	2593	18.83	-3.04	15.79	37.93	2
	41055	2636.5	18.43	-3.04	15.39	34.59	2
	41490	2680	18.57	-3.04	15.53	35.73	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	39725	2503.5	23.81	-3.04	20.77	119.40	2
	40173	2548.3	23.59	-3.04	20.55	113.50	2
	40620	2593	23.73	-3.04	20.69	117.22	2
	41068	2637.8	23.43	-3.04	20.39	109.40	2
15M-16QAM	39725	2503.5	22.86	-3.04	19.82	95.94	2
	40173	2548.3	22.76	-3.04	19.72	93.76	2
	40620	2593	22.71	-3.04	19.67	92.68	2
	41068	2637.8	22.23	-3.04	19.19	82.99	2
	41515	2682.5	22.32	-3.04	19.28	84.72	2
15M-64QAM	39725	2503.5	21.79	-3.04	18.75	74.99	2
	40173	2548.3	21.76	-3.04	18.72	74.47	2
	40620	2593	21.87	-3.04	18.83	76.38	2
	41068	2637.8	21.24	-3.04	18.20	66.07	2
	41515	2682.5	21.40	-3.04	18.36	68.55	2
	39725	2503.5	18.81	-3.04	15.77	37.76	2



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15M-256QAM	40173	2548.3	18.74	-3.04	15.70	37.15	2
	40620	2593	18.68	-3.04	15.64	36.64	2
	41068	2637.8	18.34	-3.04	15.30	33.88	2
	41515	2682.5	18.42	-3.04	15.38	34.51	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	39700	2501	23.75	-3.04	20.71	117.76	2
	40160	2547	23.67	-3.04	20.63	115.61	2
	40620	2593	23.70	-3.04	20.66	116.41	2
	41080	2639	23.43	-3.04	20.39	109.40	2
10M-16QAM	39700	2501	22.87	-3.04	19.83	96.16	2
	40160	2547	22.82	-3.04	19.78	95.06	2
	40620	2593	22.75	-3.04	19.71	93.54	2
	41080	2639	22.28	-3.04	19.24	83.95	2
	41540	2685	22.43	-3.04	19.39	86.90	2
10M-64QAM	39700	2501	21.86	-3.04	18.82	76.21	2
	40160	2547	21.81	-3.04	18.77	75.34	2
	40620	2593	21.83	-3.04	18.79	75.68	2
	41080	2639	21.28	-3.04	18.24	66.68	2
	41540	2685	21.42	-3.04	18.38	68.87	2
10M-256QAM	39700	2501	18.82	-3.04	15.78	37.84	2
	40160	2547	18.66	-3.04	15.62	36.48	2
	40620	2593	18.71	-3.04	15.67	36.90	2
	41080	2639	18.40	-3.04	15.36	34.36	2
	41540	2685	18.54	-3.04	15.50	35.48	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	39675	2498.5	23.71	-3.04	20.67	116.68	2
	40148	2545.8	23.66	-3.04	20.62	115.35	2
	40620	2593	23.74	-3.04	20.70	117.49	2
	41093	2640.3	23.40	-3.04	20.36	108.64	2
5M-16QAM	39675	2498.5	22.85	-3.04	19.81	95.72	2
	40148	2545.8	22.69	-3.04	19.65	92.26	2
	40620	2593	22.84	-3.04	19.80	95.50	2
	41093	2640.3	22.27	-3.04	19.23	83.75	2
	41565	2687.5	22.35	-3.04	19.31	85.31	2
5M-64QAM	39675	2498.5	21.87	-3.04	18.83	76.38	2
	40148	2545.8	21.69	-3.04	18.65	73.28	2
	40620	2593	21.80	-3.04	18.76	75.16	2
	41093	2640.3	21.22	-3.04	18.18	65.77	2
	41565	2687.5	21.43	-3.04	18.39	69.02	2



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5M- 256QAM	39675	2498.5	18.82	-3.04	15.78	37.84	2
	40148	2545.8	18.67	-3.04	15.63	36.56	2
	40620	2593	18.79	-3.04	15.75	37.58	2
	41093	2640.3	18.39	-3.04	15.35	34.28	2
	41565	2687.5	18.50	-3.04	15.46	35.16	2



**LTE Band 41\_Ant2**

LTE Band 41_Ant2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	39750	2506	24.79	-1.55	23.24	210.86	2
	40185	2549.5	24.62	-1.55	23.07	202.77	2
	40620	2593	24.59	-1.55	23.04	201.37	2
	41055	2636.5	24.56	-1.55	23.01	199.99	2
	41490	2680	24.53	-1.55	22.98	198.61	2
20M-16QAM	39750	2506	23.77	-1.55	22.22	166.72	2
	40185	2549.5	23.61	-1.55	22.06	160.69	2
	40620	2593	23.70	-1.55	22.15	164.06	2
	41055	2636.5	23.46	-1.55	21.91	155.24	2
	41490	2680	23.49	-1.55	21.94	156.31	2
20M-64QAM	39750	2506	22.78	-1.55	21.23	132.74	2
	40185	2549.5	22.66	-1.55	21.11	129.12	2
	40620	2593	22.70	-1.55	21.15	130.32	2
	41055	2636.5	22.48	-1.55	20.93	123.88	2
	41490	2680	22.49	-1.55	20.94	124.17	2
20M-256QAM	39750	2506	19.78	-1.55	18.23	66.53	2
	40185	2549.5	19.65	-1.55	18.10	64.57	2
	40620	2593	19.72	-1.55	18.17	65.61	2
	41055	2636.5	19.46	-1.55	17.91	61.80	2
	41490	2680	19.55	-1.55	18.00	63.10	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	39725	2503.5	24.70	-1.55	23.15	206.54	2
	40173	2548.3	24.49	-1.55	22.94	196.79	2
	40620	2593	24.49	-1.55	22.94	196.79	2
	41068	2637.8	24.44	-1.55	22.89	194.54	2
15M-16QAM	39725	2503.5	23.65	-1.55	22.10	162.18	2
	40173	2548.3	23.51	-1.55	21.96	157.04	2
	40620	2593	23.61	-1.55	22.06	160.69	2
	41068	2637.8	23.35	-1.55	21.80	151.36	2
	41515	2682.5	23.43	-1.55	21.88	154.17	2
15M-64QAM	39725	2503.5	22.77	-1.55	21.22	132.43	2
	40173	2548.3	22.54	-1.55	20.99	125.60	2
	40620	2593	22.60	-1.55	21.05	127.35	2
	41068	2637.8	22.46	-1.55	20.91	123.31	2
	41515	2682.5	22.41	-1.55	20.86	121.90	2
	39725	2503.5	19.73	-1.55	18.18	65.77	2



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15M-256QAM	40173	2548.3	19.57	-1.55	18.02	63.39	2
	40620	2593	19.66	-1.55	18.11	64.71	2
	41068	2637.8	19.43	-1.55	17.88	61.38	2
	41515	2682.5	19.53	-1.55	17.98	62.81	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	39700	2501	24.71	-1.55	23.16	207.01	2
	40160	2547	24.61	-1.55	23.06	202.30	2
	40620	2593	24.54	-1.55	22.99	199.07	2
	41080	2639	24.51	-1.55	22.96	197.70	2
10M-16QAM	39700	2501	23.74	-1.55	22.19	165.58	2
	40160	2547	23.55	-1.55	22.00	158.49	2
	40620	2593	23.59	-1.55	22.04	159.96	2
	41080	2639	23.36	-1.55	21.81	151.71	2
	41540	2685	23.36	-1.55	21.81	151.71	2
10M-64QAM	39700	2501	22.75	-1.55	21.20	131.83	2
	40160	2547	22.57	-1.55	21.02	126.47	2
	40620	2593	22.66	-1.55	21.11	129.12	2
	41080	2639	22.46	-1.55	20.91	123.31	2
	41540	2685	22.41	-1.55	20.86	121.90	2
10M-256QAM	39700	2501	19.76	-1.55	18.21	66.22	2
	40160	2547	19.63	-1.55	18.08	64.27	2
	40620	2593	19.64	-1.55	18.09	64.42	2
	41080	2639	19.42	-1.55	17.87	61.24	2
	41540	2685	19.44	-1.55	17.89	61.52	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	39675	2498.5	24.69	-1.55	23.14	206.06	2
	40148	2545.8	24.57	-1.55	23.02	200.45	2
	40620	2593	24.52	-1.55	22.97	198.15	2
	41093	2640.3	24.46	-1.55	22.91	195.43	2
5M-16QAM	39675	2498.5	23.72	-1.55	22.17	164.82	2
	40148	2545.8	23.52	-1.55	21.97	157.40	2
	40620	2593	23.65	-1.55	22.10	162.18	2
	41093	2640.3	23.32	-1.55	21.77	150.31	2
	41565	2687.5	23.39	-1.55	21.84	152.76	2
5M-64QAM	39675	2498.5	22.75	-1.55	21.20	131.83	2
	40148	2545.8	22.57	-1.55	21.02	126.47	2
	40620	2593	22.69	-1.55	21.14	130.02	2
	41093	2640.3	22.39	-1.55	20.84	121.34	2
	41565	2687.5	22.37	-1.55	20.82	120.78	2



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5M-256QAM	39675	2498.5	19.75	-1.55	18.20	66.07	2
	40148	2545.8	19.60	-1.55	18.05	63.83	2
	40620	2593	19.68	-1.55	18.13	65.01	2
	41093	2640.3	19.36	-1.55	17.81	60.39	2
	41565	2687.5	19.44	-1.55	17.89	61.52	2



**LTE Band 41\_Ant3**

LTE Band 41_Ant3							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	39750	2506	24.49	-2.72	21.77	150.31	2
	40185	2549.5	24.87	-2.72	22.15	164.06	2
	40620	2593	24.39	-2.72	21.67	146.89	2
	41055	2636.5	24.34	-2.72	21.62	145.21	2
	41490	2680	24.01	-2.72	21.29	134.59	2
20M-16QAM	39750	2506	23.44	-2.72	20.72	118.03	2
	40185	2549.5	23.82	-2.72	21.10	128.82	2
	40620	2593	23.52	-2.72	20.80	120.23	2
	41055	2636.5	23.48	-2.72	20.76	119.12	2
	41490	2680	23.11	-2.72	20.39	109.40	2
20M-64QAM	39750	2506	22.52	-2.72	19.80	95.50	2
	40185	2549.5	22.88	-2.72	20.16	103.75	2
	40620	2593	22.46	-2.72	19.74	94.19	2
	41055	2636.5	22.43	-2.72	19.71	93.54	2
	41490	2680	22.10	-2.72	19.38	86.70	2
20M-256QAM	39750	2506	19.47	-2.72	16.75	47.32	2
	40185	2549.5	19.64	-2.72	16.92	49.20	2
	40620	2593	19.53	-2.72	16.81	47.97	2
	41055	2636.5	19.47	-2.72	16.75	47.32	2
	41490	2680	19.08	-2.72	16.36	43.25	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	39725	2503.5	24.39	-2.72	21.67	146.89	2
	40173	2548.3	24.82	-2.72	22.10	162.18	2
	40620	2593	24.37	-2.72	21.65	146.22	2
	41068	2637.8	24.19	-2.72	21.47	140.28	2
15M-16QAM	39725	2503.5	23.36	-2.72	20.64	115.88	2
	40173	2548.3	23.78	-2.72	21.06	127.64	2
	40620	2593	23.49	-2.72	20.77	119.40	2
	41068	2637.8	23.47	-2.72	20.75	118.85	2
	41515	2682.5	22.99	-2.72	20.27	106.41	2
15M-64QAM	39725	2503.5	22.50	-2.72	19.78	95.06	2
	40173	2548.3	22.81	-2.72	20.09	102.09	2
	40620	2593	22.41	-2.72	19.69	93.11	2
	41068	2637.8	22.34	-2.72	19.62	91.62	2
	41515	2682.5	22.08	-2.72	19.36	86.30	2
	39725	2503.5	19.44	-2.72	16.72	46.99	2



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15M-256QAM	40173	2548.3	19.62	-2.72	16.90	48.98	2
	40620	2593	19.43	-2.72	16.71	46.88	2
	41068	2637.8	19.43	-2.72	16.71	46.88	2
	41515	2682.5	18.97	-2.72	16.25	42.17	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	39700	2501	24.46	-2.72	21.74	149.28	2
	40160	2547	24.84	-2.72	22.12	162.93	2
	40620	2593	24.32	-2.72	21.60	144.54	2
	41080	2639	24.31	-2.72	21.59	144.21	2
10M-16QAM	39700	2501	23.34	-2.72	20.62	115.35	2
	40160	2547	23.79	-2.72	21.07	127.94	2
	40620	2593	23.44	-2.72	20.72	118.03	2
	41080	2639	23.35	-2.72	20.63	115.61	2
	41540	2685	23.09	-2.72	20.37	108.89	2
10M-64QAM	39700	2501	22.43	-2.72	19.71	93.54	2
	40160	2547	22.77	-2.72	20.05	101.16	2
	40620	2593	22.45	-2.72	19.73	93.97	2
	41080	2639	22.33	-2.72	19.61	91.41	2
	41540	2685	22.03	-2.72	19.31	85.31	2
10M-256QAM	39700	2501	19.45	-2.72	16.73	47.10	2
	40160	2547	19.58	-2.72	16.86	48.53	2
	40620	2593	19.45	-2.72	16.73	47.10	2
	41080	2639	19.42	-2.72	16.70	46.77	2
	41540	2685	18.96	-2.72	16.24	42.07	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	39675	2498.5	24.41	-2.72	21.69	147.57	2
	40148	2545.8	24.75	-2.72	22.03	159.59	2
	40620	2593	24.30	-2.72	21.58	143.88	2
	41093	2640.3	24.31	-2.72	21.59	144.21	2
5M-16QAM	39675	2498.5	23.37	-2.72	20.65	116.14	2
	40148	2545.8	23.77	-2.72	21.05	127.35	2
	40620	2593	23.45	-2.72	20.73	118.30	2
	41093	2640.3	23.41	-2.72	20.69	117.22	2
	41565	2687.5	23.03	-2.72	20.31	107.40	2
5M-64QAM	39675	2498.5	22.45	-2.72	19.73	93.97	2
	40148	2545.8	22.80	-2.72	20.08	101.86	2
	40620	2593	22.39	-2.72	19.67	92.68	2
	41093	2640.3	22.39	-2.72	19.67	92.68	2
	41565	2687.5	22.06	-2.72	19.34	85.90	2



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5M-256QAM	39675	2498.5	19.41	-2.72	16.69	46.67	2
	40148	2545.8	19.57	-2.72	16.85	48.42	2
	40620	2593	19.45	-2.72	16.73	47.10	2
	41093	2640.3	19.44	-2.72	16.72	46.99	2
	41565	2687.5	19.02	-2.72	16.30	42.66	2



**LTE Band 41\_Ant4**

LTE Band 41_Ant4							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	39750	2506	24.77	0.09	24.86	306.20	2
	40185	2549.5	24.72	0.09	24.81	302.69	2
	40620	2593	24.68	0.09	24.77	299.92	2
	41055	2636.5	24.66	0.09	24.75	298.54	2
	41490	2680	24.47	0.09	24.56	285.76	2
20M-16QAM	39750	2506	23.77	0.09	23.86	243.22	2
	40185	2549.5	23.75	0.09	23.84	242.10	2
	40620	2593	23.70	0.09	23.79	239.33	2
	41055	2636.5	23.69	0.09	23.78	238.78	2
	41490	2680	23.61	0.09	23.7ss0	234.42	2
20M-64QAM	39750	2506	22.89	0.09	22.98	198.61	2
	40185	2549.5	22.81	0.09	22.90	194.98	2
	40620	2593	22.80	0.09	22.89	194.54	2
	41055	2636.5	22.83	0.09	22.92	195.88	2
	41490	2680	22.68	0.09	22.77	189.23	2
20M-256QAM	39750	2506	19.82	0.09	19.91	97.95	2
	40185	2549.5	19.78	0.09	19.87	97.05	2
	40620	2593	19.75	0.09	19.84	96.38	2
	41055	2636.5	19.75	0.09	19.84	96.38	2
	41490	2680	19.62	0.09	19.71	93.54	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	39725	2503.5	24.76	0.09	24.85	305.49	2
	40173	2548.3	24.58	0.09	24.67	293.09	2
	40620	2593	24.56	0.09	24.65	291.74	2
	41068	2637.8	24.61	0.09	24.70	295.12	2
15M-16QAM	39725	2503.5	23.75	0.09	23.84	242.10	2
	40173	2548.3	23.74	0.09	23.83	241.55	2
	40620	2593	23.56	0.09	23.65	231.74	2
	41068	2637.8	23.60	0.09	23.69	233.88	2
	41515	2682.5	23.48	0.09	23.57	227.51	2
15M-64QAM	39725	2503.5	22.76	0.09	22.85	192.75	2
	40173	2548.3	22.73	0.09	22.82	191.43	2
	40620	2593	22.74	0.09	22.83	191.87	2
	41068	2637.8	22.71	0.09	22.80	190.55	2
	41515	2682.5	22.57	0.09	22.66	184.50	2
	39725	2503.5	19.78	0.09	19.87	97.05	2



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15M-256QAM	40173	2548.3	19.73	0.09	19.82	95.94	2
	40620	2593	19.70	0.09	19.79	95.28	2
	41068	2637.8	19.70	0.09	19.79	95.28	2
	41515	2682.5	19.56	0.09	19.65	92.26	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	39700	2501	24.67	0.09	24.76	299.23	2
	40160	2547	24.65	0.09	24.74	297.85	2
	40620	2593	24.53	0.09	24.62	289.73	2
	41080	2639	24.58	0.09	24.67	293.09	2
10M-16QAM	39700	2501	23.70	0.09	23.79	239.33	2
	40160	2547	23.66	0.09	23.75	237.14	2
	40620	2593	23.65	0.09	23.74	236.59	2
	41080	2639	23.65	0.09	23.74	236.59	2
	41540	2685	23.53	0.09	23.62	230.14	2
10M-64QAM	39700	2501	22.78	0.09	22.87	193.64	2
	40160	2547	22.79	0.09	22.88	194.09	2
	40620	2593	22.75	0.09	22.84	192.31	2
	41080	2639	22.72	0.09	22.81	190.99	2
	41540	2685	22.59	0.09	22.68	185.35	2
10M-256QAM	39700	2501	19.77	0.09	19.86	96.83	2
	40160	2547	19.68	0.09	19.77	94.84	2
	40620	2593	19.68	0.09	19.77	94.84	2
	41080	2639	19.71	0.09	19.80	95.50	2
	41540	2685	19.56	0.09	19.65	92.26	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	39675	2498.5	24.73	0.09	24.82	303.39	2
	40148	2545.8	24.62	0.09	24.71	295.80	2
	40620	2593	24.67	0.09	24.76	299.23	2
	41093	2640.3	24.59	0.09	24.68	293.76	2
5M-16QAM	39675	2498.5	23.68	0.09	23.77	238.23	2
	40148	2545.8	23.66	0.09	23.75	237.14	2
	40620	2593	23.60	0.09	23.69	233.88	2
	41093	2640.3	23.62	0.09	23.71	234.96	2
	41565	2687.5	23.50	0.09	23.59	228.56	2
5M-64QAM	39675	2498.5	22.85	0.09	22.94	196.79	2
	40148	2545.8	22.72	0.09	22.81	190.99	2
	40620	2593	22.77	0.09	22.86	193.20	2
	41093	2640.3	22.81	0.09	22.90	194.98	2
	41565	2687.5	22.66	0.09	22.75	188.36	2



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5M-256QAM	39675	2498.5	19.81	0.09	19.90	97.72	2
	40148	2545.8	19.75	0.09	19.84	96.38	2
	40620	2593	19.70	0.09	19.79	95.28	2
	41093	2640.3	19.65	0.09	19.74	94.19	2
	41565	2687.5	19.57	0.09	19.66	92.47	2



**Part27Q\_LTE Band 42\_Ant1**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	42190	3460	22.76	-0.73	22.03	159.59	1
	42590	3500	22.56	-0.73	21.83	152.41	1
	42990	3540	22.49	-0.73	21.76	149.97	1
20M-16QAM	42190	3460	21.85	-0.73	21.12	129.42	1
	42590	3500	21.77	-0.73	21.04	127.06	1
	42990	3540	21.75	-0.73	21.02	126.47	1
20M-64QAM	42190	3460	20.96	-0.73	20.23	105.44	1
	42590	3500	20.88	-0.73	20.15	103.51	1
	42990	3540	20.81	-0.73	20.08	101.86	1
20M-256QAM	42190	3460	17.90	-0.73	17.17	52.12	1
	42590	3500	17.82	-0.73	17.09	51.17	1
	42990	3540	17.81	-0.73	17.08	51.05	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	42165	3457.5	22.74	-0.73	22.01	158.85	1
	42590	3500	22.51	-0.73	21.78	150.66	1
	43015	3542.5	22.46	-0.73	21.73	148.94	1
15M-16QAM	42165	3457.5	21.82	-0.73	21.09	128.53	1
	42590	3500	21.67	-0.73	20.94	124.17	1
	43015	3542.5	21.66	-0.73	20.93	123.88	1
15M-64QAM	42165	3457.5	20.93	-0.73	20.20	104.71	1
	42590	3500	20.83	-0.73	20.10	102.33	1
	43015	3542.5	20.68	-0.73	19.95	98.86	1
15M-256QAM	42165	3457.5	17.83	-0.73	17.10	51.29	1
	42590	3500	17.77	-0.73	17.04	50.58	1
	43015	3542.5	17.71	-0.73	16.98	49.89	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	42140	3455	22.65	-0.73	21.92	155.60	1
	42590	3500	22.41	-0.73	21.68	147.23	1
	43040	3545	22.36	-0.73	21.63	145.55	1
10M-16QAM	42140	3455	21.79	-0.73	21.06	127.64	1
	42590	3500	21.53	-0.73	20.80	120.23	1
	43040	3545	21.61	-0.73	20.88	122.46	1
10M-	42140	3455	20.82	-0.73	20.09	102.09	1

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64QAM	42590	3500	20.82	-0.73	20.09	102.09	1
	43040	3545	20.65	-0.73	19.92	98.17	1
10M-256QAM	42140	3455	17.75	-0.73	17.02	50.35	1
	42590	3500	17.73	-0.73	17.00	50.12	1
	43040	3545	17.69	-0.73	16.96	49.66	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	42115	3452.5	22.74	-0.73	22.01	158.85	1
	42590	3500	22.50	-0.73	21.77	150.31	1
	43065	3547.5	22.47	-0.73	21.74	149.28	1
5M-16QAM	42115	3452.5	21.73	-0.73	21.00	125.89	1
	42590	3500	21.75	-0.73	21.02	126.47	1
	43065	3547.5	21.61	-0.73	20.88	122.46	1
5M-64QAM	42115	3452.5	20.93	-0.73	20.20	104.71	1
	42590	3500	20.82	-0.73	20.09	102.09	1
	43065	3547.5	20.74	-0.73	20.01	100.23	1
5M-256QAM	42115	3452.5	17.79	-0.73	17.06	50.82	1
	42590	3500	17.70	-0.73	16.97	49.77	1
	43065	3547.5	17.71	-0.73	16.98	49.89	1



**Part27Q\_LTE Band 42\_Ant2**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	42190	3460	24.73	-1.2	23.53	225.42	1
	42590	3500	24.53	-1.2	23.33	215.28	1
	42990	3540	24.27	-1.2	23.07	202.77	1
20M- 16QAM	42190	3460	23.76	-1.2	22.56	180.30	1
	42590	3500	23.71	-1.2	22.51	178.24	1
	42990	3540	23.44	-1.2	22.24	167.49	1
20M- 64QAM	42190	3460	22.85	-1.2	21.65	146.22	1
	42590	3500	22.74	-1.2	21.54	142.56	1
	42990	3540	22.50	-1.2	21.30	134.90	1
20M- 256QAM	42190	3460	19.82	-1.2	18.62	72.78	1
	42590	3500	19.81	-1.2	18.61	72.61	1
	42990	3540	19.32	-1.2	18.12	64.86	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	42165	3457.5	24.61	-1.2	23.41	219.28	1
	42590	3500	24.45	-1.2	23.25	211.35	1
	43015	3542.5	24.16	-1.2	22.96	197.70	1
15M- 16QAM	42165	3457.5	23.70	-1.2	22.50	177.83	1
	42590	3500	23.60	-1.2	22.40	173.78	1
	43015	3542.5	23.40	-1.2	22.20	165.96	1
15M- 64QAM	42165	3457.5	22.76	-1.2	21.56	143.22	1
	42590	3500	22.65	-1.2	21.45	139.64	1
	43015	3542.5	22.45	-1.2	21.25	133.35	1
15M- 256QAM	42165	3457.5	19.78	-1.2	18.58	72.11	1
	42590	3500	19.72	-1.2	18.52	71.12	1
	43015	3542.5	19.31	-1.2	18.11	64.71	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	42140	3455	24.66	-1.2	23.46	221.82	1
	42590	3500	24.40	-1.2	23.20	208.93	1
	43040	3545	24.20	-1.2	23.00	199.53	1
10M- 16QAM	42140	3455	23.63	-1.2	22.43	174.98	1
	42590	3500	23.70	-1.2	22.50	177.83	1
	43040	3545	23.41	-1.2	22.21	166.34	1
10M-	42140	3455	22.82	-1.2	21.62	145.21	1

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64QAM	42590	3500	22.67	-1.2	21.47	140.28	1
	43040	3545	22.42	-1.2	21.22	132.43	1
10M-256QAM	42140	3455	19.75	-1.2	18.55	71.61	1
	42590	3500	19.69	-1.2	18.49	70.63	1
	43040	3545	19.27	-1.2	18.07	64.12	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	42115	3452.5	24.59	-1.2	23.39	218.27	1
	42590	3500	24.42	-1.2	23.22	209.89	1
	43065	3547.5	24.13	-1.2	22.93	196.34	1
5M-16QAM	42115	3452.5	23.57	-1.2	22.37	172.58	1
	42590	3500	23.57	-1.2	22.37	172.58	1
	43065	3547.5	23.35	-1.2	22.15	164.06	1
5M-64QAM	42115	3452.5	22.78	-1.2	21.58	143.88	1
	42590	3500	22.58	-1.2	21.38	137.40	1
	43065	3547.5	22.41	-1.2	21.21	132.13	1
5M-256QAM	42115	3452.5	19.66	-1.2	18.46	70.15	1
	42590	3500	19.64	-1.2	18.44	69.82	1
	43065	3547.5	19.14	-1.2	17.94	62.23	1



**Part27Q\_LTE Band 42\_Ant3**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	42190	3460	24.37	0.98	25.35	342.77	1
	42590	3500	24.05	0.98	25.03	318.42	1
	42990	3540	23.95	0.98	24.93	311.17	1
20M- 16QAM	42190	3460	23.43	0.98	24.41	276.06	1
	42590	3500	23.23	0.98	24.21	263.63	1
	42990	3540	23.13	0.98	24.11	257.63	1
20M- 64QAM	42190	3460	22.48	0.98	23.46	221.82	1
	42590	3500	22.23	0.98	23.21	209.41	1
	42990	3540	22.22	0.98	23.20	208.93	1
20M- 256QAM	42190	3460	19.50	0.98	20.48	111.69	1
	42590	3500	19.19	0.98	20.17	103.99	1
	42990	3540	19.16	0.98	20.14	103.28	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	42165	3457.5	24.27	0.98	25.25	334.97	1
	42590	3500	24.03	0.98	25.01	316.96	1
	43015	3542.5	23.94	0.98	24.92	310.46	1
15M- 16QAM	42165	3457.5	23.31	0.98	24.29	268.53	1
	42590	3500	23.21	0.98	24.19	262.42	1
	43015	3542.5	22.98	0.98	23.96	248.89	1
15M- 64QAM	42165	3457.5	22.37	0.98	23.35	216.27	1
	42590	3500	22.17	0.98	23.15	206.54	1
	43015	3542.5	22.14	0.98	23.12	205.12	1
15M- 256QAM	42165	3457.5	19.46	0.98	20.44	110.66	1
	42590	3500	19.12	0.98	20.10	102.33	1
	43015	3542.5	19.14	0.98	20.12	102.80	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	42140	3455	24.18	0.98	25.16	328.10	1
	42590	3500	23.90	0.98	24.88	307.61	1
	43040	3545	23.89	0.98	24.87	306.90	1
10M- 16QAM	42140	3455	23.26	0.98	24.24	265.46	1
	42590	3500	23.20	0.98	24.18	261.82	1
	43040	3545	22.95	0.98	23.93	247.17	1
10M-	42140	3455	22.29	0.98	23.27	212.32	1

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64QAM	42590	3500	22.07	0.98	23.05	201.84	1
	43040	3545	22.00	0.98	22.98	198.61	1
10M-256QAM	42140	3455	19.44	0.98	20.42	110.15	1
	42590	3500	19.09	0.98	20.07	101.62	1
	43040	3545	19.02	0.98	20.00	100.00	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	42115	3452.5	24.35	0.98	25.33	341.19	1
	42590	3500	24.03	0.98	25.01	316.96	1
	43065	3547.5	23.91	0.98	24.89	308.32	1
5M-16QAM	42115	3452.5	23.40	0.98	24.38	274.16	1
	42590	3500	23.12	0.98	24.10	257.04	1
	43065	3547.5	23.04	0.98	24.02	252.35	1
5M-64QAM	42115	3452.5	22.44	0.98	23.42	219.79	1
	42590	3500	22.17	0.98	23.15	206.54	1
	43065	3547.5	22.16	0.98	23.14	206.06	1
5M-256QAM	42115	3452.5	19.46	0.98	20.44	110.66	1
	42590	3500	19.17	0.98	20.15	103.51	1
	43065	3547.5	19.11	0.98	20.09	102.09	1



**Part27Q\_LTE Band 42\_Ant7**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	42190	3460	22.28	-1.9	20.38	109.14	1
	42590	3500	22.07	-1.9	20.17	103.99	1
	42990	3540	21.88	-1.9	19.98	99.54	1
20M- 16QAM	42190	3460	21.24	-1.9	19.34	85.90	1
	42590	3500	21.12	-1.9	19.22	83.56	1
	42990	3540	21.11	-1.9	19.21	83.37	1
20M- 64QAM	42190	3460	20.12	-1.9	18.22	66.37	1
	42590	3500	20.15	-1.9	18.25	66.83	1
	42990	3540	20.15	-1.9	18.25	66.83	1
20M- 256QAM	42190	3460	17.15	-1.9	15.25	33.50	1
	42590	3500	17.03	-1.9	15.13	32.58	1
	42990	3540	16.97	-1.9	15.07	32.14	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	42165	3457.5	22.16	-1.9	20.26	106.17	1
	42590	3500	22.04	-1.9	20.14	103.28	1
	43015	3542.5	21.85	-1.9	19.95	98.86	1
15M- 16QAM	42165	3457.5	21.14	-1.9	19.24	83.95	1
	42590	3500	21.10	-1.9	19.20	83.18	1
	43015	3542.5	20.99	-1.9	19.09	81.10	1
15M- 64QAM	42165	3457.5	19.98	-1.9	18.08	64.27	1
	42590	3500	20.12	-1.9	18.22	66.37	1
	43015	3542.5	20.00	-1.9	18.10	64.57	1
15M- 256QAM	42165	3457.5	17.13	-1.9	15.23	33.34	1
	42590	3500	17.00	-1.9	15.10	32.36	1
	43015	3542.5	16.86	-1.9	14.96	31.33	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	42140	3455	22.18	-1.9	20.28	106.66	1
	42590	3500	22.00	-1.9	20.10	102.33	1
	43040	3545	21.84	-1.9	19.94	98.63	1
10M- 16QAM	42140	3455	21.16	-1.9	19.26	84.33	1
	42590	3500	21.07	-1.9	19.17	82.60	1
	43040	3545	21.03	-1.9	19.13	81.85	1
10M-	42140	3455	19.97	-1.9	18.07	64.12	1

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64QAM	42590	3500	20.05	-1.9	18.15	65.31	1
	43040	3545	20.03	-1.9	18.13	65.01	1
10M-256QAM	42140	3455	17.13	-1.9	15.23	33.34	1
	42590	3500	16.98	-1.9	15.08	32.21	1
	43040	3545	16.89	-1.9	14.99	31.55	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	42115	3452.5	22.15	-1.9	20.25	105.93	1
	42590	3500	21.94	-1.9	20.04	100.93	1
	43065	3547.5	21.77	-1.9	19.87	97.05	1
5M-16QAM	42115	3452.5	21.16	-1.9	19.26	84.33	1
	42590	3500	21.05	-1.9	19.15	82.22	1
	43065	3547.5	21.09	-1.9	19.19	82.99	1
5M-64QAM	42115	3452.5	20.10	-1.9	18.20	66.07	1
	42590	3500	20.06	-1.9	18.16	65.46	1
	43065	3547.5	20.10	-1.9	18.20	66.07	1
5M-256QAM	42115	3452.5	17.04	-1.9	15.14	32.66	1
	42590	3500	16.96	-1.9	15.06	32.06	1
	43065	3547.5	16.87	-1.9	14.97	31.41	1



**LTE Band 66\_Ant0**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	132072	1720	23.80	-3.23	20.57	114.02	1
	132322	1745	23.87	-3.23	20.64	115.88	1
	132572	1770	23.77	-3.23	20.54	113.24	1
20M-16QAM	132072	1720	22.97	-3.23	19.74	94.19	1
	132322	1745	22.99	-3.23	19.76	94.62	1
	132572	1770	22.98	-3.23	19.75	94.41	1
20M-64QAM	132072	1720	21.91	-3.23	18.68	73.79	1
	132322	1745	21.94	-3.23	18.71	74.30	1
	132572	1770	21.93	-3.23	18.70	74.13	1
20M-256QAM	132072	1720	18.83	-3.23	15.60	36.31	1
	132322	1745	18.88	-3.23	15.65	36.73	1
	132572	1770	18.82	-3.23	15.59	36.22	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	132047	1717.5	23.73	-3.23	20.50	112.20	1
	132322	1745	23.78	-3.23	20.55	113.50	1
	132597	1772.5	23.68	-3.23	20.45	110.92	1
15M-16QAM	132047	1717.5	22.89	-3.23	19.66	92.47	1
	132322	1745	22.98	-3.23	19.75	94.41	1
	132597	1772.5	22.87	-3.23	19.64	92.04	1
15M-64QAM	132047	1717.5	21.87	-3.23	18.64	73.11	1
	132322	1745	21.83	-3.23	18.60	72.44	1
	132597	1772.5	21.84	-3.23	18.61	72.61	1
15M-256QAM	132047	1717.5	18.81	-3.23	15.58	36.14	1
	132322	1745	18.87	-3.23	15.64	36.64	1
	132597	1772.5	18.74	-3.23	15.51	35.56	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	132022	1715	23.72	-3.23	20.49	111.94	1
	132322	1745	23.67	-3.23	20.44	110.66	1
	132622	1775	23.64	-3.23	20.41	109.90	1
10M-16QAM	132022	1715	22.81	-3.23	19.58	90.78	1
	132322	1745	22.93	-3.23	19.70	93.33	1
	132622	1775	22.77	-3.23	19.54	89.95	1
10M-	132022	1715	21.75	-3.23	18.52	71.12	1

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64QAM	132322	1745	21.73	-3.23	18.50	70.79	1
	132622	1775	21.81	-3.23	18.58	72.11	1
10M-256QAM	132022	1715	18.69	-3.23	15.46	35.16	1
	132322	1745	18.79	-3.23	15.56	35.97	1
	132622	1775	18.71	-3.23	15.48	35.32	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	131997	1712.5	23.73	-3.23	20.50	112.20	1
	132322	1745	23.72	-3.23	20.49	111.94	1
	132647	1777.5	23.72	-3.23	20.49	111.94	1
5M-16QAM	131997	1712.5	22.89	-3.23	19.66	92.47	1
	132322	1745	22.94	-3.23	19.71	93.54	1
	132647	1777.5	22.94	-3.23	19.71	93.54	1
5M-64QAM	131997	1712.5	21.86	-3.23	18.63	72.95	1
	132322	1745	21.88	-3.23	18.65	73.28	1
	132647	1777.5	21.85	-3.23	18.62	72.78	1
5M-256QAM	131997	1712.5	18.80	-3.23	15.57	36.06	1
	132322	1745	18.80	-3.23	15.57	36.06	1
	132647	1777.5	18.71	-3.23	15.48	35.32	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	131987	1711.5	23.69	-3.23	20.46	111.17	1
	132322	1745	23.82	-3.23	20.59	114.55	1
	132657	1778.5	23.72	-3.23	20.49	111.94	1
3M-16QAM	131987	1711.5	22.95	-3.23	19.72	93.76	1
	132322	1745	22.90	-3.23	19.67	92.68	1
	132657	1778.5	22.88	-3.23	19.65	92.26	1
3M-64QAM	131987	1711.5	21.89	-3.23	18.66	73.45	1
	132322	1745	21.91	-3.23	18.68	73.79	1
	132657	1778.5	21.91	-3.23	18.68	73.79	1
3M-256QAM	131987	1711.5	18.81	-3.23	15.58	36.14	1
	132322	1745	18.83	-3.23	15.60	36.31	1
	132657	1778.5	18.78	-3.23	15.55	35.89	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	131979	1710.7	23.63	-3.23	20.40	109.65	1
	132322	1745	23.68	-3.23	20.45	110.92	1
	132665	1779.3	23.59	-3.23	20.36	108.64	1



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1.4M-16QAM	131979	1710.7	22.85	-3.23	19.62	91.62	1
	132322	1745	22.83	-3.23	19.60	91.20	1
	132665	1779.3	22.91	-3.23	19.68	92.90	1
1.4M-64QAM	131979	1710.7	21.77	-3.23	18.54	71.45	1
	132322	1745	21.79	-3.23	18.56	71.78	1
	132665	1779.3	21.79	-3.23	18.56	71.78	1
1.4M-256QAM	131979	1710.7	18.75	-3.23	15.52	35.65	1
	132322	1745	18.83	-3.23	15.60	36.31	1
	132665	1779.3	18.67	-3.23	15.44	34.99	1



**LTE Band 66\_Ant2**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	132072	1720	24.88	-1.08	23.80	239.88	1
	132322	1745	24.96	-1.08	23.88	244.34	1
	132572	1770	24.92	-1.08	23.84	242.10	1
20M- 16QAM	132072	1720	24.14	-1.08	23.06	202.30	1
	132322	1745	24.10	-1.08	23.02	200.45	1
	132572	1770	24.15	-1.08	23.07	202.77	1
20M- 64QAM	132072	1720	23.13	-1.08	22.05	160.32	1
	132322	1745	23.09	-1.08	22.01	158.85	1
	132572	1770	23.11	-1.08	22.03	159.59	1
20M- 256QAM	132072	1720	20.06	-1.08	18.98	79.07	1
	132322	1745	20.09	-1.08	19.01	79.62	1
	132572	1770	20.10	-1.08	19.02	79.80	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	132047	1717.5	24.81	-1.08	23.73	236.05	1
	132322	1745	24.83	-1.08	23.75	237.14	1
	132597	1772.5	24.87	-1.08	23.79	239.33	1
15M- 16QAM	132047	1717.5	24.04	-1.08	22.96	197.70	1
	132322	1745	23.99	-1.08	22.91	195.43	1
	132597	1772.5	24.06	-1.08	22.98	198.61	1
15M- 64QAM	132047	1717.5	23.05	-1.08	21.97	157.40	1
	132322	1745	23.06	-1.08	21.98	157.76	1
	132597	1772.5	23.03	-1.08	21.95	156.68	1
15M- 256QAM	132047	1717.5	19.94	-1.08	18.86	76.91	1
	132322	1745	20.02	-1.08	18.94	78.34	1
	132597	1772.5	20.09	-1.08	19.01	79.62	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	132022	1715	24.71	-1.08	23.63	230.67	1
	132322	1745	24.69	-1.08	23.61	229.61	1
	132622	1775	24.86	-1.08	23.78	238.78	1
10M- 16QAM	132022	1715	23.94	-1.08	22.86	193.20	1
	132322	1745	23.91	-1.08	22.83	191.87	1
	132622	1775	23.91	-1.08	22.83	191.87	1
10M-	132022	1715	22.91	-1.08	21.83	152.41	1

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64QAM	132322	1745	22.98	-1.08	21.90	154.88	1
	132622	1775	22.96	-1.08	21.88	154.17	1
10M-256QAM	132022	1715	19.89	-1.08	18.81	76.03	1
	132322	1745	20.01	-1.08	18.93	78.16	1
	132622	1775	19.95	-1.08	18.87	77.09	1
<b>BW [MHz] Modulation</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Conducted Power (dBm)</b>	<b>Gain (dB)</b>	<b>EIRP (dBm)</b>	<b>EIRP (mW)</b>	<b>Limit (W)</b>
5M-QPSK	131997	1712.5	24.85	-1.08	23.77	238.23	1
	132322	1745	24.87	-1.08	23.79	239.33	1
	132647	1777.5	24.83	-1.08	23.75	237.14	1
5M-16QAM	131997	1712.5	24.09	-1.08	23.01	199.99	1
	132322	1745	24.05	-1.08	22.97	198.15	1
	132647	1777.5	24.11	-1.08	23.03	200.91	1
5M-64QAM	131997	1712.5	23.03	-1.08	21.95	156.68	1
	132322	1745	23.02	-1.08	21.94	156.31	1
	132647	1777.5	23.09	-1.08	22.01	158.85	1
5M-256QAM	131997	1712.5	19.95	-1.08	18.87	77.09	1
	132322	1745	19.97	-1.08	18.89	77.45	1
	132647	1777.5	19.97	-1.08	18.89	77.45	1
<b>BW [MHz] Modulation</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Conducted Power (dBm)</b>	<b>Gain (dB)</b>	<b>EIRP (dBm)</b>	<b>EIRP (mW)</b>	<b>Limit (W)</b>
3M-QPSK	131987	1711.5	24.85	-1.08	23.77	238.23	1
	132322	1745	24.84	-1.08	23.76	237.68	1
	132657	1778.5	24.85	-1.08	23.77	238.23	1
3M-16QAM	131987	1711.5	24.11	-1.08	23.03	200.91	1
	132322	1745	24.00	-1.08	22.92	195.88	1
	132657	1778.5	24.08	-1.08	23.00	199.53	1
3M-64QAM	131987	1711.5	22.99	-1.08	21.91	155.24	1
	132322	1745	22.95	-1.08	21.87	153.82	1
	132657	1778.5	23.10	-1.08	22.02	159.22	1
3M-256QAM	131987	1711.5	19.91	-1.08	18.83	76.38	1
	132322	1745	19.96	-1.08	18.88	77.27	1
	132657	1778.5	20.09	-1.08	19.01	79.62	1
<b>BW [MHz] Modulation</b>	<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Conducted Power (dBm)</b>	<b>Gain (dB)</b>	<b>EIRP (dBm)</b>	<b>EIRP (mW)</b>	<b>Limit (W)</b>
1.4M-QPSK	131979	1710.7	24.78	-1.08	23.70	234.42	1
	132322	1745	24.80	-1.08	23.72	235.50	1
	132665	1779.3	24.78	-1.08	23.70	234.42	1



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1.4M-16QAM	131979	1710.7	23.96	-1.08	22.88	194.09	1
	132322	1745	23.96	-1.08	22.88	194.09	1
	132665	1779.3	23.98	-1.08	22.90	194.98	1
1.4M-64QAM	131979	1710.7	23.05	-1.08	21.97	157.40	1
	132322	1745	22.94	-1.08	21.86	153.46	1
	132665	1779.3	22.95	-1.08	21.87	153.82	1
1.4M-256QAM	131979	1710.7	19.96	-1.08	18.88	77.27	1
	132322	1745	19.98	-1.08	18.90	77.62	1
	132665	1779.3	19.95	-1.08	18.87	77.09	1



**LTE Band 66\_Ant3**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	132072	1720	24.75	-2.08	22.67	184.93	1
	132322	1745	24.83	-2.08	22.75	188.36	1
	132572	1770	24.71	-2.08	22.63	183.23	1
20M- 16QAM	132072	1720	23.95	-2.08	21.87	153.82	1
	132322	1745	24.00	-2.08	21.92	155.60	1
	132572	1770	23.98	-2.08	21.90	154.88	1
20M- 64QAM	132072	1720	22.99	-2.08	20.91	123.31	1
	132322	1745	23.03	-2.08	20.95	124.45	1
	132572	1770	22.98	-2.08	20.90	123.03	1
20M- 256QAM	132072	1720	19.80	-2.08	17.72	59.16	1
	132322	1745	19.88	-2.08	17.80	60.26	1
	132572	1770	19.87	-2.08	17.79	60.12	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	132047	1717.5	24.71	-2.08	22.63	183.23	1
	132322	1745	24.70	-2.08	22.62	182.81	1
	132597	1772.5	24.66	-2.08	22.58	181.13	1
15M- 16QAM	132047	1717.5	23.84	-2.08	21.76	149.97	1
	132322	1745	23.90	-2.08	21.82	152.05	1
	132597	1772.5	23.96	-2.08	21.88	154.17	1
15M- 64QAM	132047	1717.5	22.96	-2.08	20.88	122.46	1
	132322	1745	22.93	-2.08	20.85	121.62	1
	132597	1772.5	22.93	-2.08	20.85	121.62	1
15M- 256QAM	132047	1717.5	19.69	-2.08	17.61	57.68	1
	132322	1745	19.79	-2.08	17.71	59.02	1
	132597	1772.5	19.85	-2.08	17.77	59.84	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	132022	1715	24.69	-2.08	22.61	182.39	1
	132322	1745	24.74	-2.08	22.66	184.50	1
	132622	1775	24.68	-2.08	22.60	181.97	1
10M- 16QAM	132022	1715	23.88	-2.08	21.80	151.36	1
	132322	1745	23.93	-2.08	21.85	153.11	1
	132622	1775	23.94	-2.08	21.86	153.46	1
10M-	132022	1715	22.98	-2.08	20.90	123.03	1

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64QAM	132322	1745	22.98	-2.08	20.90	123.03	1
	132622	1775	22.95	-2.08	20.87	122.18	1
10M-256QAM	132022	1715	19.79	-2.08	17.71	59.02	1
	132322	1745	19.84	-2.08	17.76	59.70	1
	132622	1775	19.83	-2.08	17.75	59.57	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	131997	1712.5	24.61	-2.08	22.53	179.06	1
	132322	1745	24.60	-2.08	22.52	178.65	1
	132647	1777.5	24.61	-2.08	22.53	179.06	1
5M-16QAM	131997	1712.5	23.71	-2.08	21.63	145.55	1
	132322	1745	23.86	-2.08	21.78	150.66	1
	132647	1777.5	23.89	-2.08	21.81	151.71	1
5M-64QAM	131997	1712.5	22.83	-2.08	20.75	118.85	1
	132322	1745	22.90	-2.08	20.82	120.78	1
	132647	1777.5	22.90	-2.08	20.82	120.78	1
5M-256QAM	131997	1712.5	19.63	-2.08	17.55	56.89	1
	132322	1745	19.69	-2.08	17.61	57.68	1
	132647	1777.5	19.76	-2.08	17.68	58.61	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	131987	1711.5	24.68	-2.08	22.60	181.97	1
	132322	1745	24.78	-2.08	22.70	186.21	1
	132657	1778.5	24.65	-2.08	22.57	180.72	1
3M-16QAM	131987	1711.5	23.83	-2.08	21.75	149.62	1
	132322	1745	23.99	-2.08	21.91	155.24	1
	132657	1778.5	23.91	-2.08	21.83	152.41	1
3M-64QAM	131987	1711.5	22.89	-2.08	20.81	120.50	1
	132322	1745	23.02	-2.08	20.94	124.17	1
	132657	1778.5	22.93	-2.08	20.85	121.62	1
3M-256QAM	131987	1711.5	19.78	-2.08	17.70	58.88	1
	132322	1745	19.86	-2.08	17.78	59.98	1
	132657	1778.5	19.86	-2.08	17.78	59.98	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	131979	1710.7	24.72	-2.08	22.64	183.65	1
	132322	1745	24.80	-2.08	22.72	187.07	1
	132665	1779.3	24.61	-2.08	22.53	179.06	1



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1.4M-16QAM	131979	1710.7	23.82	-2.08	21.74	149.28	1
	132322	1745	23.94	-2.08	21.86	153.46	1
	132665	1779.3	23.91	-2.08	21.83	152.41	1
1.4M-64QAM	131979	1710.7	22.92	-2.08	20.84	121.34	1
	132322	1745	22.88	-2.08	20.80	120.23	1
	132665	1779.3	22.92	-2.08	20.84	121.34	1
1.4M-256QAM	131979	1710.7	19.79	-2.08	17.71	59.02	1
	132322	1745	19.84	-2.08	17.76	59.70	1
	132665	1779.3	19.81	-2.08	17.73	59.29	1



**LTE Band 66\_Ant4**

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	132072	1720	24.41	-3.07	21.34	136.14	1
	132322	1745	24.44	-3.07	21.37	137.09	1
	132572	1770	24.40	-3.07	21.33	135.83	1
20M- 16QAM	132072	1720	23.59	-3.07	20.52	112.72	1
	132322	1745	23.57	-3.07	20.50	112.20	1
	132572	1770	23.52	-3.07	20.45	110.92	1
20M- 64QAM	132072	1720	22.50	-3.07	19.43	87.70	1
	132322	1745	22.57	-3.07	19.50	89.13	1
	132572	1770	22.54	-3.07	19.47	88.51	1
20M- 256QAM	132072	1720	19.61	-3.07	16.54	45.08	1
	132322	1745	19.62	-3.07	16.55	45.19	1
	132572	1770	19.60	-3.07	16.53	44.98	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	132047	1717.5	24.30	-3.07	21.23	132.74	1
	132322	1745	24.33	-3.07	21.26	133.66	1
	132597	1772.5	24.29	-3.07	21.22	132.43	1
15M- 16QAM	132047	1717.5	23.56	-3.07	20.49	111.94	1
	132322	1745	23.44	-3.07	20.37	108.89	1
	132597	1772.5	23.46	-3.07	20.39	109.40	1
15M- 64QAM	132047	1717.5	22.45	-3.07	19.38	86.70	1
	132322	1745	22.52	-3.07	19.45	88.10	1
	132597	1772.5	22.52	-3.07	19.45	88.10	1
15M- 256QAM	132047	1717.5	19.54	-3.07	16.47	44.36	1
	132322	1745	19.58	-3.07	16.51	44.77	1
	132597	1772.5	19.53	-3.07	16.46	44.26	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	132022	1715	24.34	-3.07	21.27	133.97	1
	132322	1745	24.27	-3.07	21.20	131.83	1
	132622	1775	24.16	-3.07	21.09	128.53	1
10M- 16QAM	132022	1715	23.45	-3.07	20.38	109.14	1
	132322	1745	23.36	-3.07	20.29	106.91	1
	132622	1775	23.36	-3.07	20.29	106.91	1
10M-	132022	1715	22.38	-3.07	19.31	85.31	1

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**BUREAU VERITAS** Test Report No.: PSZ-QBJ2501200112RF04

64QAM	132322	1745	22.43	-3.07	19.36	86.30	1
	132622	1775	22.47	-3.07	19.40	87.10	1
10M-256QAM	132022	1715	19.45	-3.07	16.38	43.45	1
	132322	1745	19.40	-3.07	16.33	42.95	1
	132622	1775	19.46	-3.07	16.39	43.55	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	131997	1712.5	24.30	-3.07	21.23	132.74	1
	132322	1745	24.32	-3.07	21.25	133.35	1
	132647	1777.5	24.37	-3.07	21.30	134.90	1
5M-16QAM	131997	1712.5	23.57	-3.07	20.50	112.20	1
	132322	1745	23.51	-3.07	20.44	110.66	1
	132647	1777.5	23.49	-3.07	20.42	110.15	1
5M-64QAM	131997	1712.5	22.44	-3.07	19.37	86.50	1
	132322	1745	22.52	-3.07	19.45	88.10	1
	132647	1777.5	22.46	-3.07	19.39	86.90	1
5M-256QAM	131997	1712.5	19.52	-3.07	16.45	44.16	1
	132322	1745	19.59	-3.07	16.52	44.87	1
	132647	1777.5	19.55	-3.07	16.48	44.46	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	131987	1711.5	24.39	-3.07	21.32	135.52	1
	132322	1745	24.36	-3.07	21.29	134.59	1
	132657	1778.5	24.37	-3.07	21.30	134.90	1
3M-16QAM	131987	1711.5	23.48	-3.07	20.41	109.90	1
	132322	1745	23.45	-3.07	20.38	109.14	1
	132657	1778.5	23.47	-3.07	20.40	109.65	1
3M-64QAM	131987	1711.5	22.41	-3.07	19.34	85.90	1
	132322	1745	22.50	-3.07	19.43	87.70	1
	132657	1778.5	22.47	-3.07	19.40	87.10	1
3M-256QAM	131987	1711.5	19.49	-3.07	16.42	43.85	1
	132322	1745	19.61	-3.07	16.54	45.08	1
	132657	1778.5	19.57	-3.07	16.50	44.67	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1.4M-QPSK	131979	1710.7	24.29	-3.07	21.22	132.43	1
	132322	1745	24.35	-3.07	21.28	134.28	1
	132665	1779.3	24.25	-3.07	21.18	131.22	1



**BUREAU VERITAS** Test Report No.: PSZ-QBJ2501200112RF04

1.4M-16QAM	131979	1710.7	23.50	-3.07	20.43	110.41	1
	132322	1745	23.47	-3.07	20.40	109.65	1
	132665	1779.3	23.48	-3.07	20.41	109.90	1
1.4M-64QAM	131979	1710.7	22.47	-3.07	19.40	87.10	1
	132322	1745	22.53	-3.07	19.46	88.31	1
	132665	1779.3	22.53	-3.07	19.46	88.31	1
1.4M-256QAM	131979	1710.7	19.50	-3.07	16.43	43.95	1
	132322	1745	19.57	-3.07	16.50	44.67	1
	132665	1779.3	19.51	-3.07	16.44	44.06	1



### 3.2 FREQUENCY STABILITY MEASUREMENT

#### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

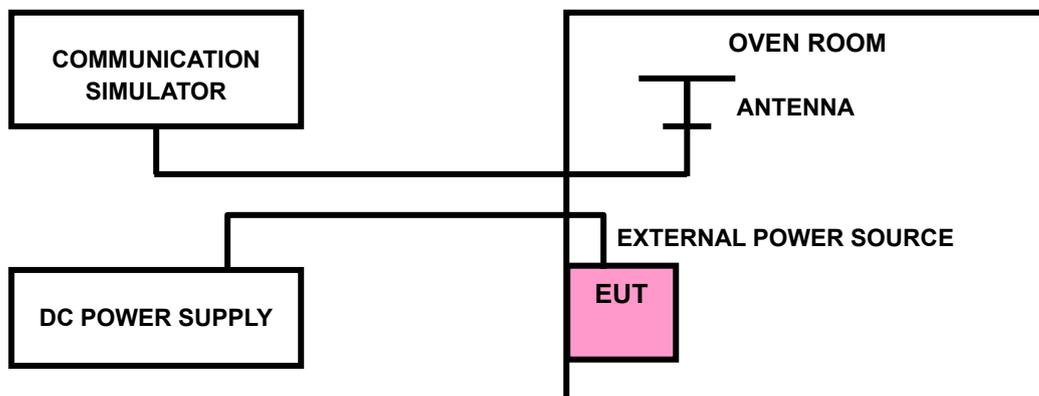
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

#### 3.2.3 TEST SETUP



#### 3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

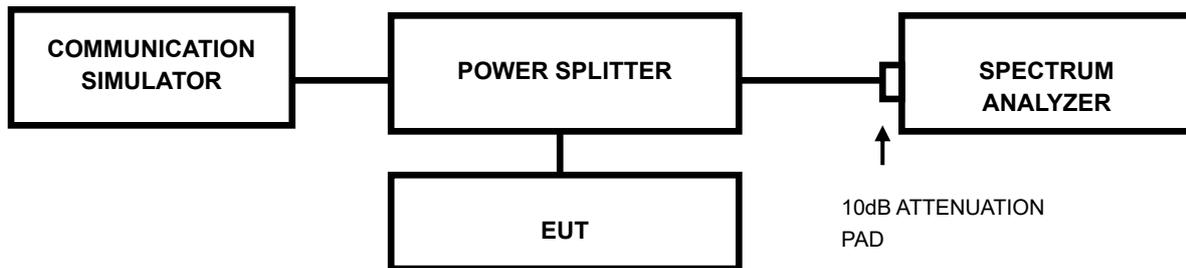


### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

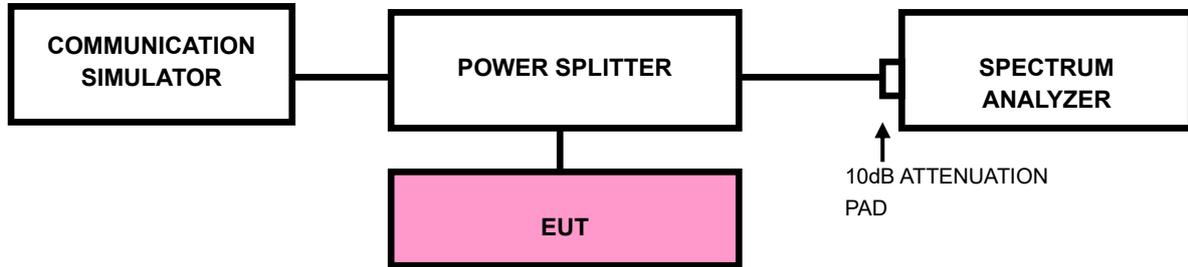
According to FCC Part 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. 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.

According to FCC Part 27.53(m)(4) specified that 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)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  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. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

According to FCC 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 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.



### 3.4.2 TEST SETUP





### 3.4.3 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW)  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to  $\geq 3 \times$  RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to  $\geq 1001$ .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.

### 3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.



### 3.5 CONDUCTED SPURIOUS EMISSIONS

#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

For LTE Band4/66

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit is equal to  $-13$ dBm.

For: LTE Band42

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.

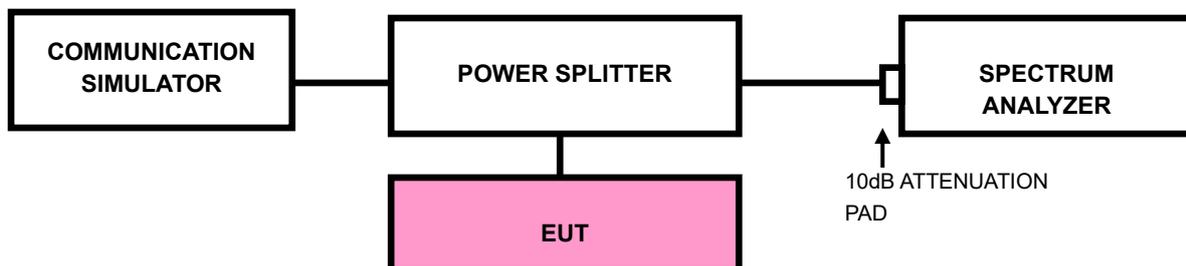
For LTE Band38/41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to  $-25$ dBm.

#### 3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP





**BUREAU VERITAS** Test Report No.: PSZ-QBJ2501200112RF04

### 3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

For LTE Band4/66

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit is equal to  $-13\text{dBm}$ .

For: LTE Band42

For mobile operations in the 3450–3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13 \text{ dBm/MHz}$ .

For LTE Band38/41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to  $-25\text{dBm}$ .

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$ .

**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

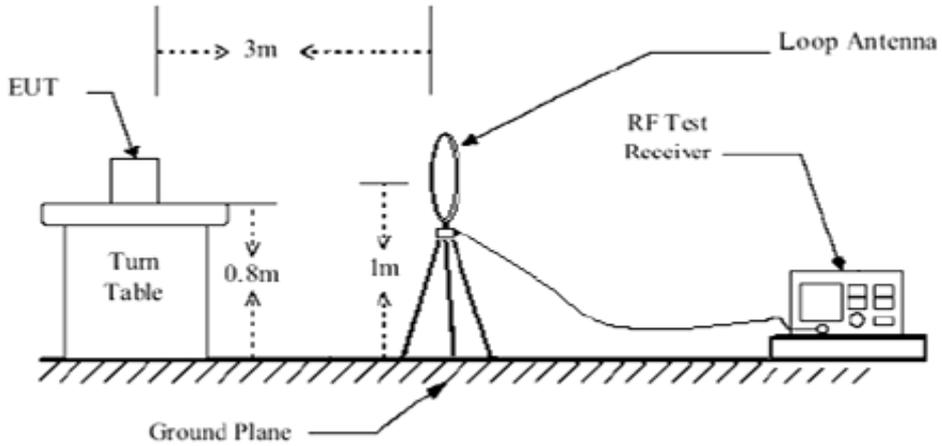
#### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

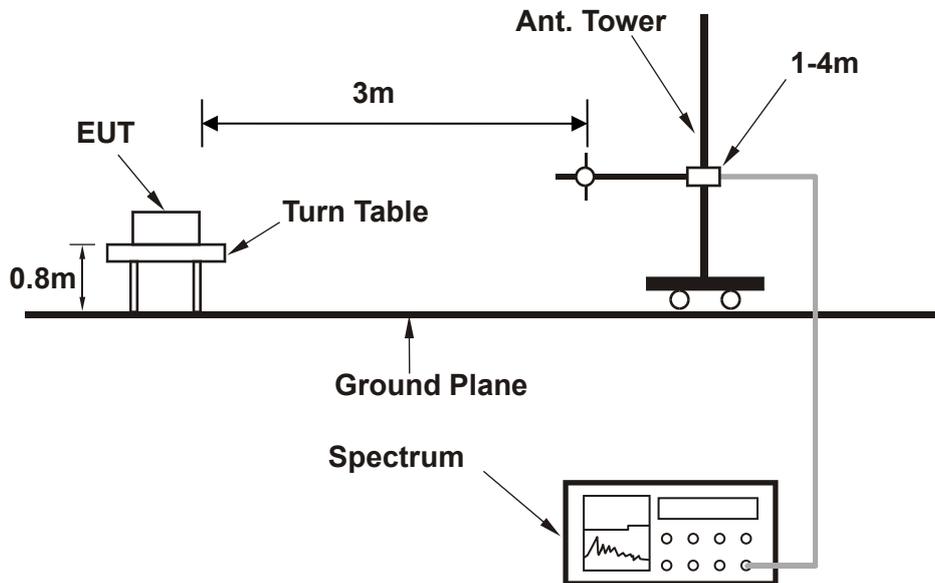


### 3.6.4 TEST SETUP

#### < Frequency Range below 30MHz >

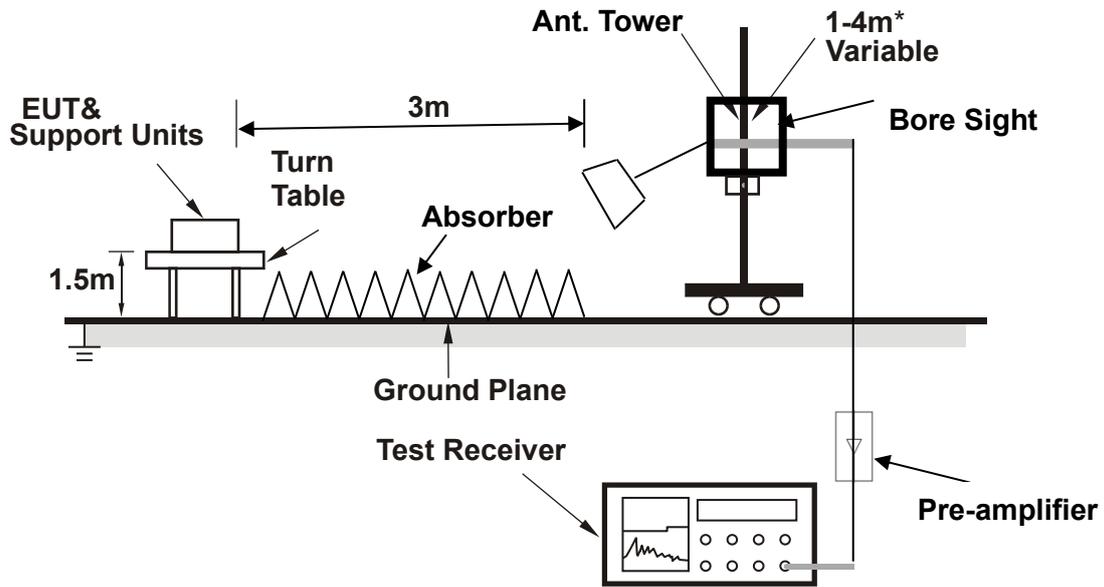


#### < Frequency Range 30MHz~1GHz >





**<Frequency Range above 1GHz>**



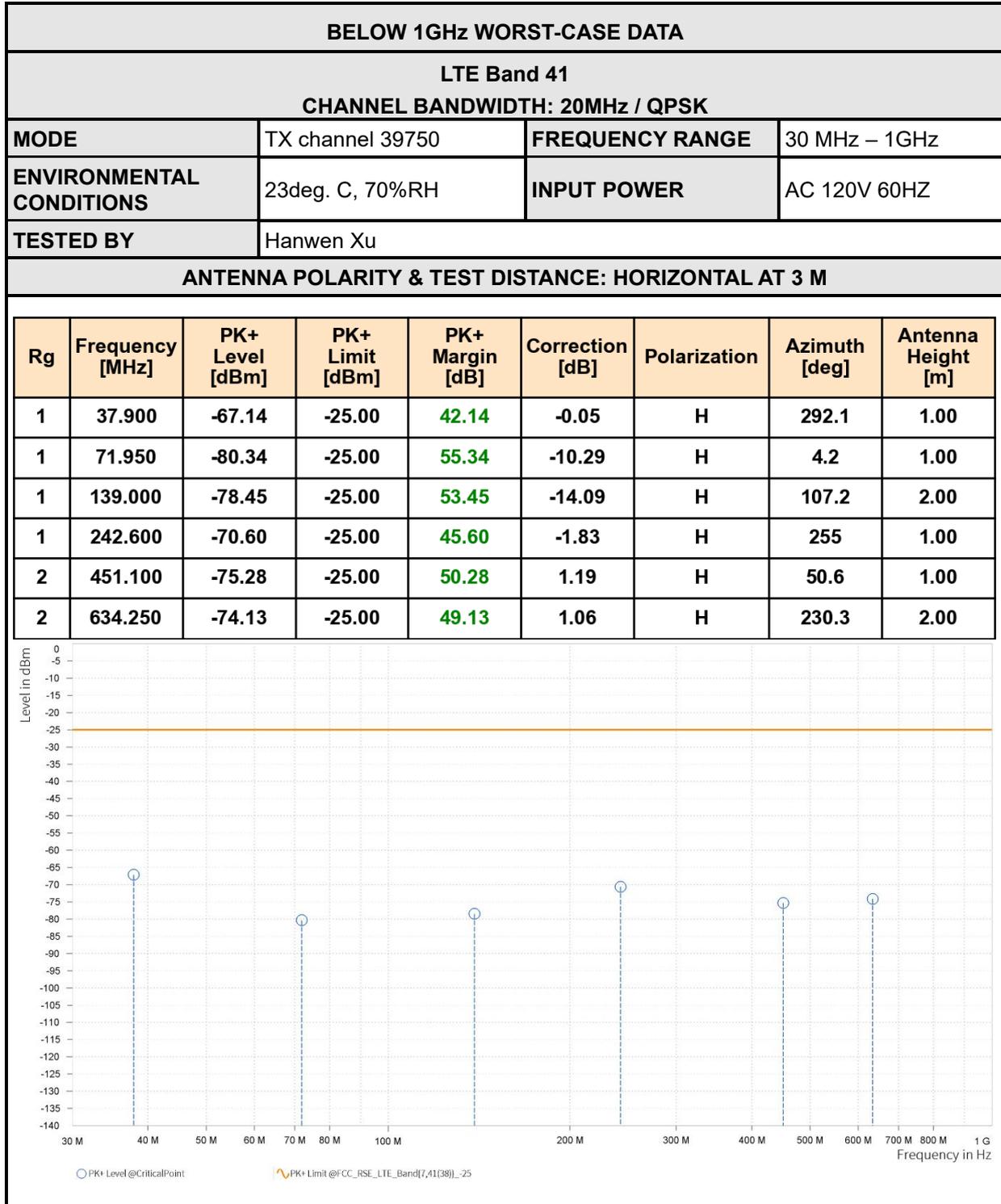
**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



### 3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

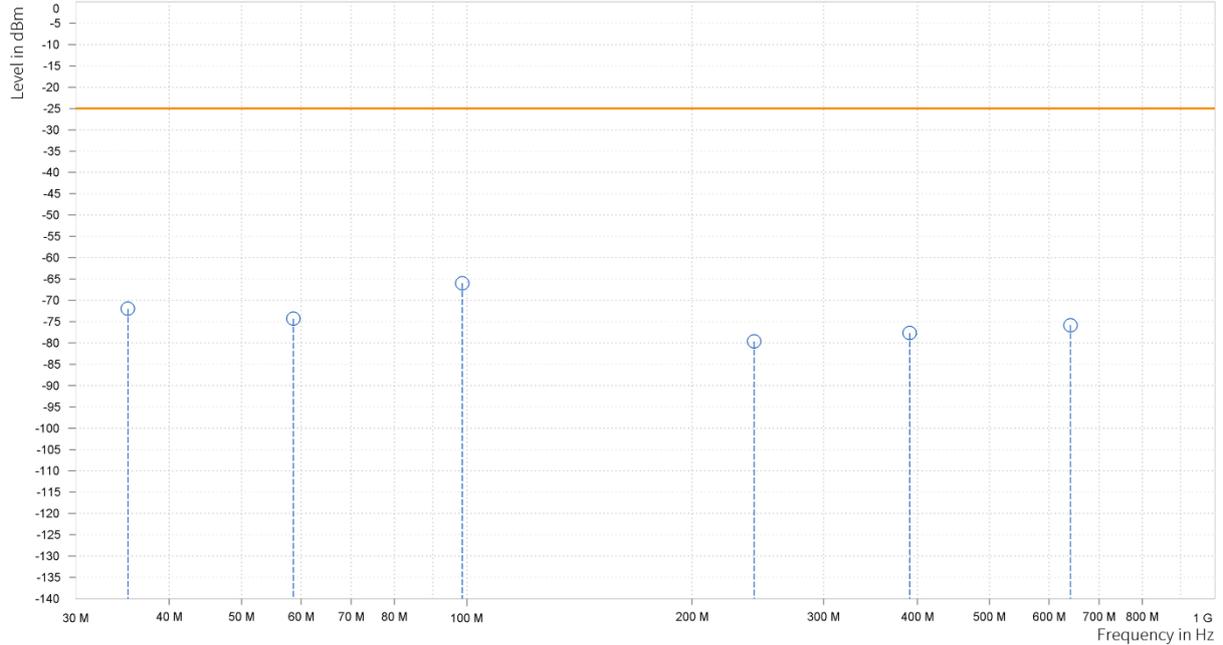




<b>MODE</b>	TX channel 39750	<b>FREQUENCY RANGE</b>	30 MHz – 1GHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V 60HZ
<b>TESTED BY</b>	Hanwen Xu		

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	35.200	-71.97	-25.00	46.97	-10.10	V	201.4	1.00
1	58.600	-74.31	-25.00	49.31	-3.67	V	359	1.00
1	98.600	-66.01	-25.00	41.01	5.08	V	188.6	2.00
1	242.150	-79.65	-25.00	54.65	-6.30	V	355.7	2.00
1	390.600	-77.68	-25.00	52.68	0.35	V	133.6	2.00
2	641.079	-75.83	-25.00	50.83	-0.39	V	147.9	2.00





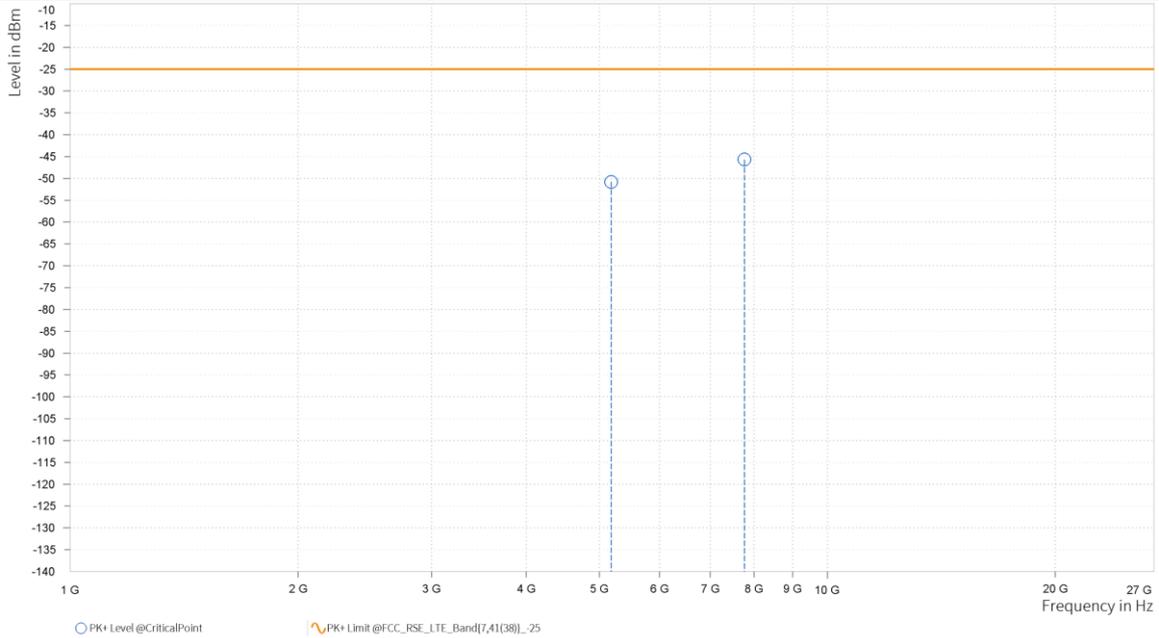
ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

LTE BAND 41			
CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 40620
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.500	-50.80	-25.00	25.80	23.77	H	186.7	1.00
5	7,772.250	-45.69	-25.00	20.69	28.09	H	354.8	2.00

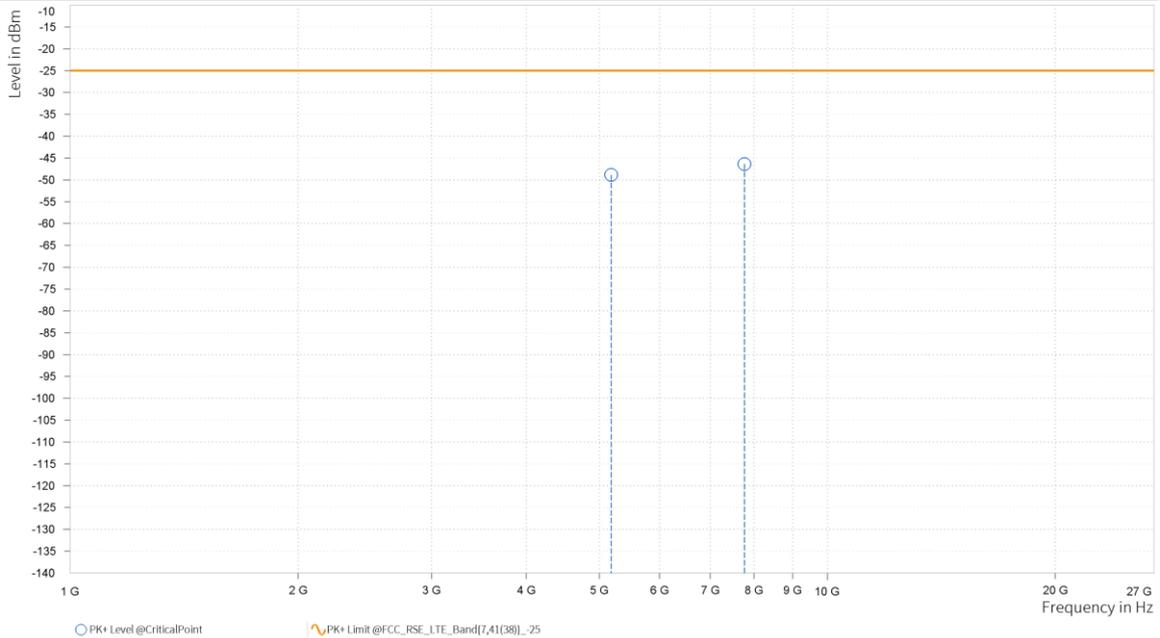




<b>CHANNEL BANDWIDTH</b>	5MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.500	-48.86	-25.00	23.86	24.23	V	357.5	1.00
5	7,772.250	-46.35	-25.00	21.35	27.86	V	358.3	2.00

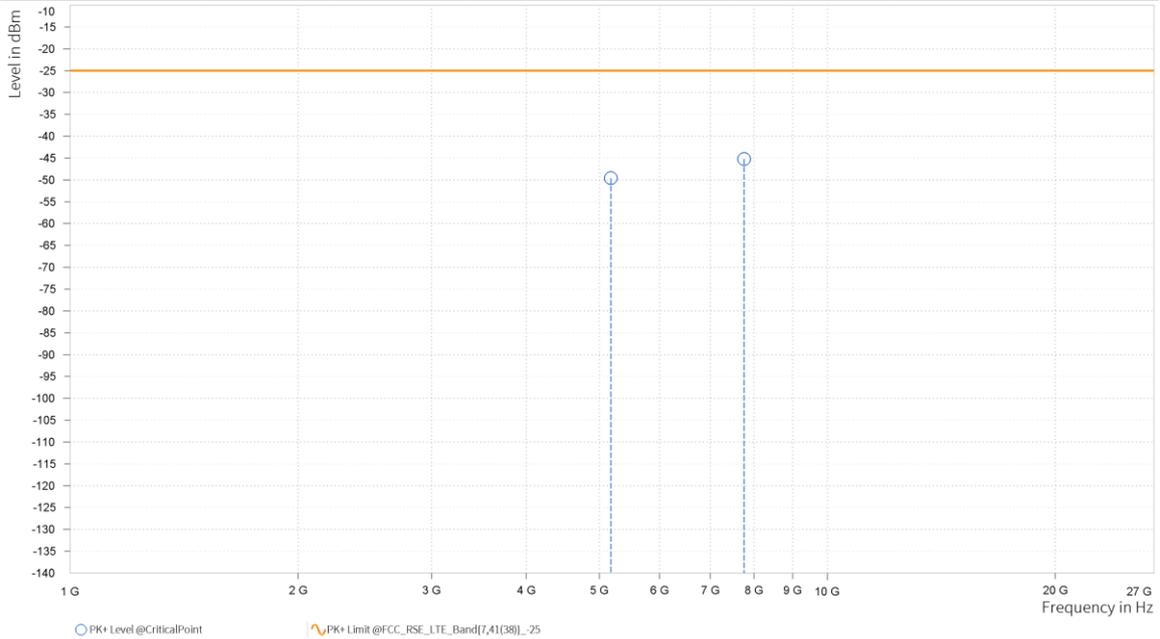




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,177.000	-49.59	-25.00	24.59	23.75	H	92.6	1.00
5	7,765.500	-45.22	-25.00	20.22	28.11	H	359.1	2.00

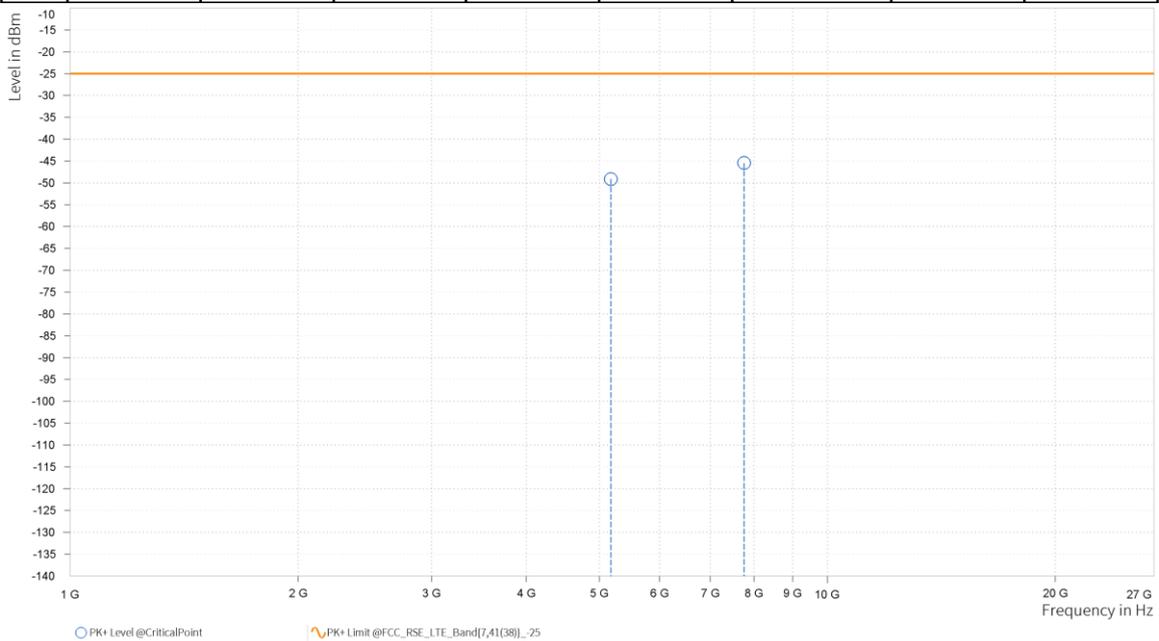




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,177.000	-49.14	-25.00	24.14	24.18	V	313.4	1.00
5	7,765.500	-45.44	-25.00	20.44	27.88	V	359.1	2.00

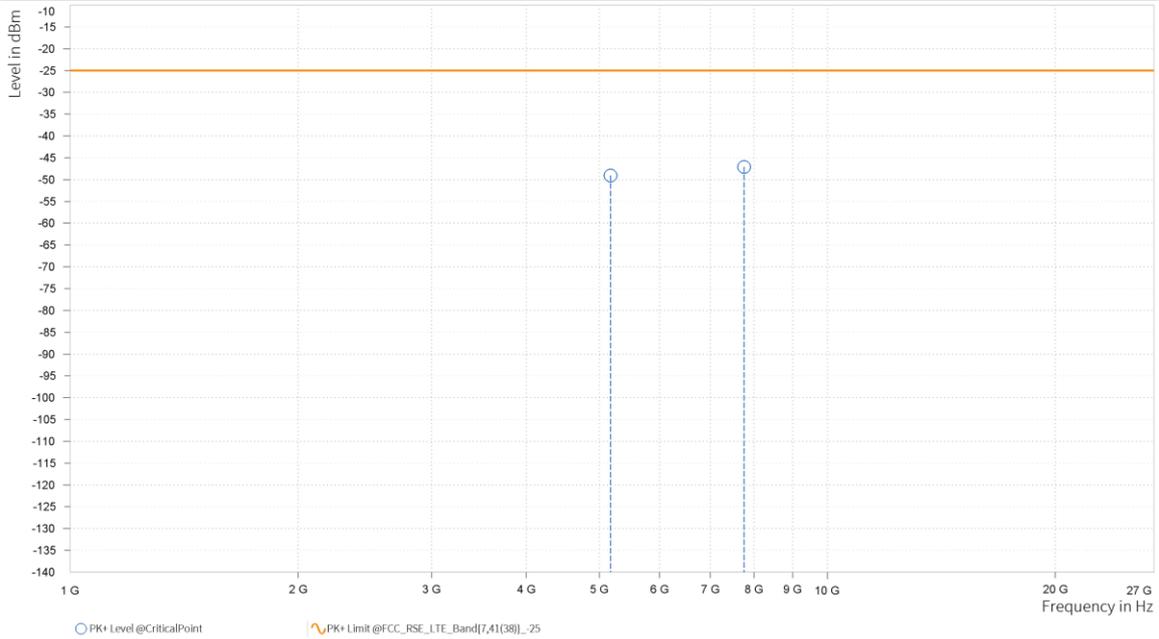




<b>CHANNEL BANDWIDTH</b>	15MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.500	-49.07	-25.00	24.07	23.73	H	290.7	1.00
5	7,758.750	-47.08	-25.00	22.08	28.14	H	299.2	2.00

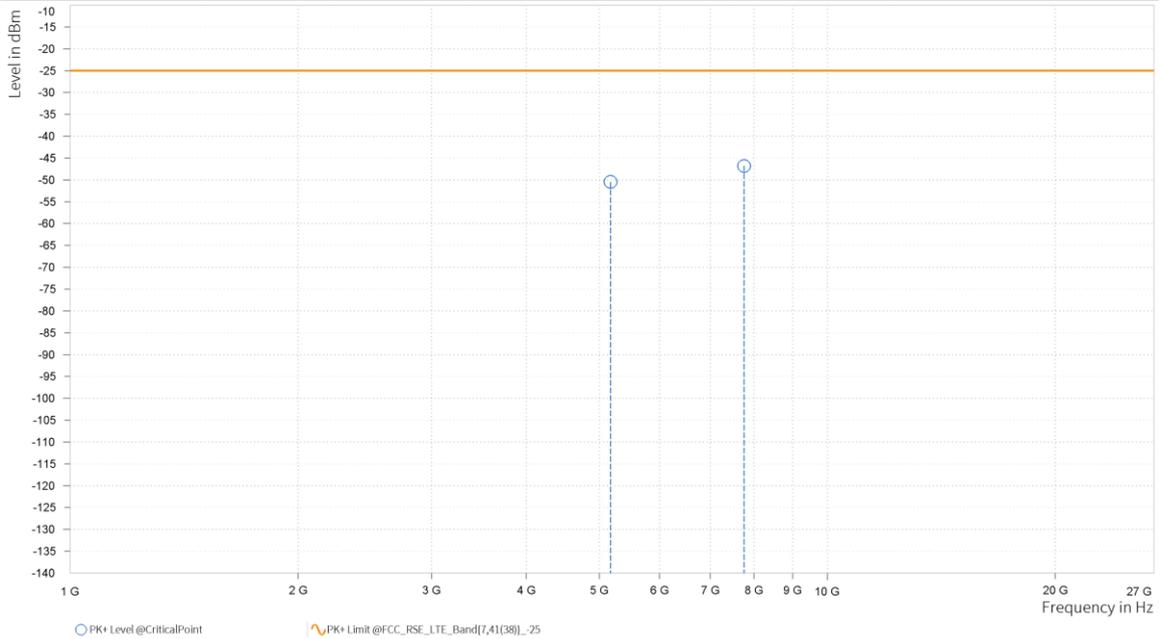




<b>CHANNEL BANDWIDTH</b>	15MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.500	-50.49	-25.00	25.49	24.12	V	103.2	2.00
5	7,758.750	-46.81	-25.00	21.81	27.89	V	218.5	1.00

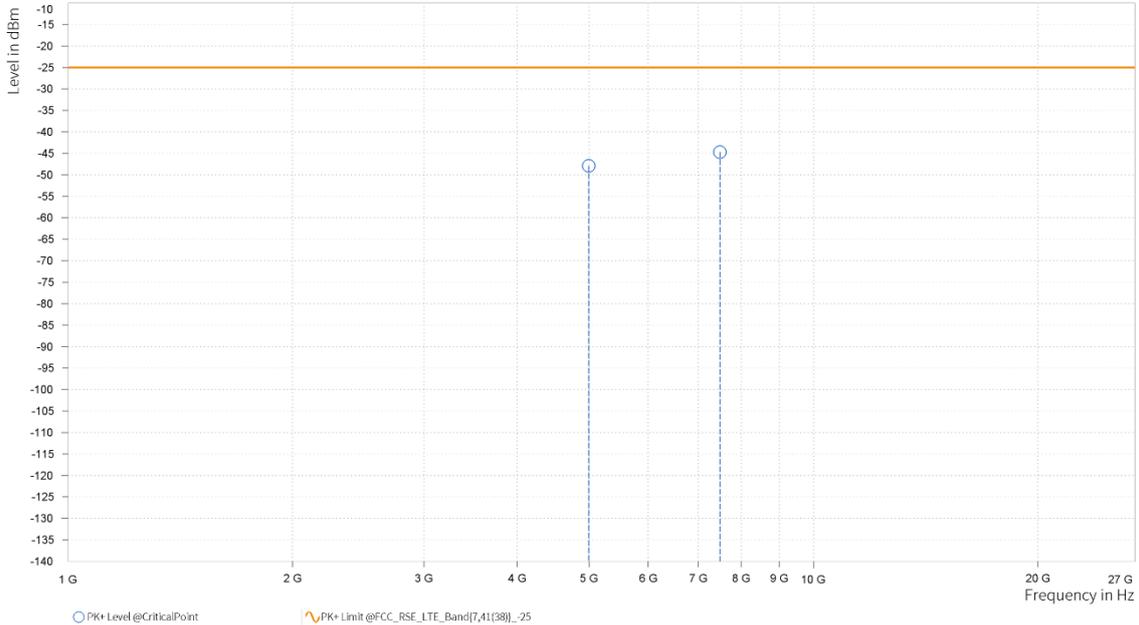




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 39750
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-47.89	-25.00	22.89	23.61	H	1	1.00
5	7,491.000	-44.70	-25.00	19.70	27.41	H	199.4	2.00

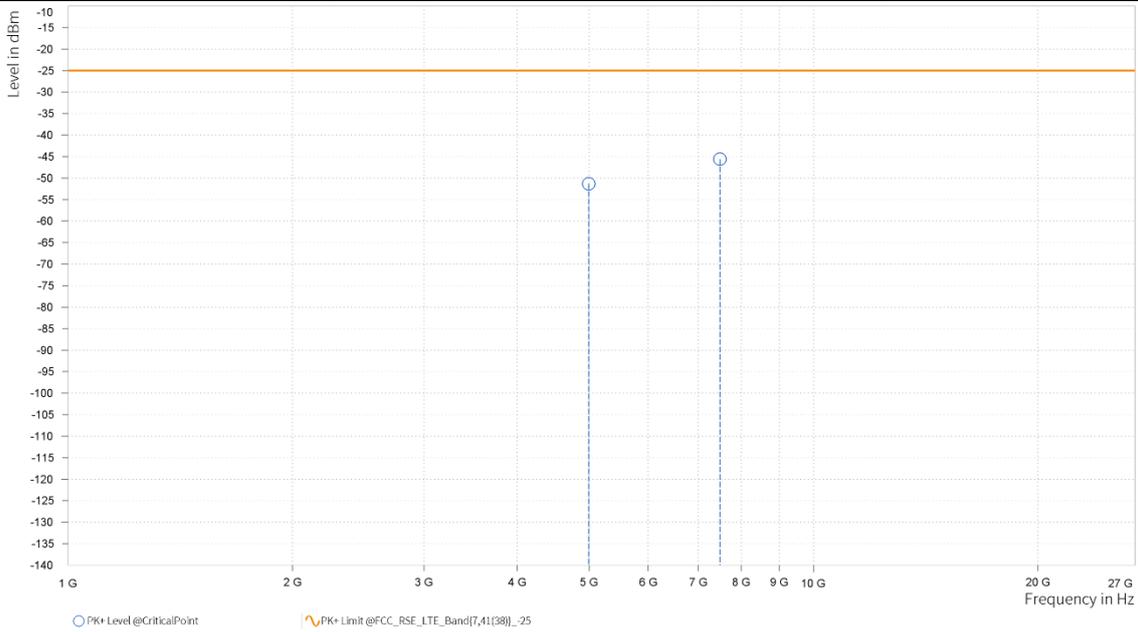




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 39750
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-51.30	-25.00	26.30	23.84	V	96.8	1.00
5	7,491.000	-45.61	-25.00	20.61	27.39	V	310.5	2.00

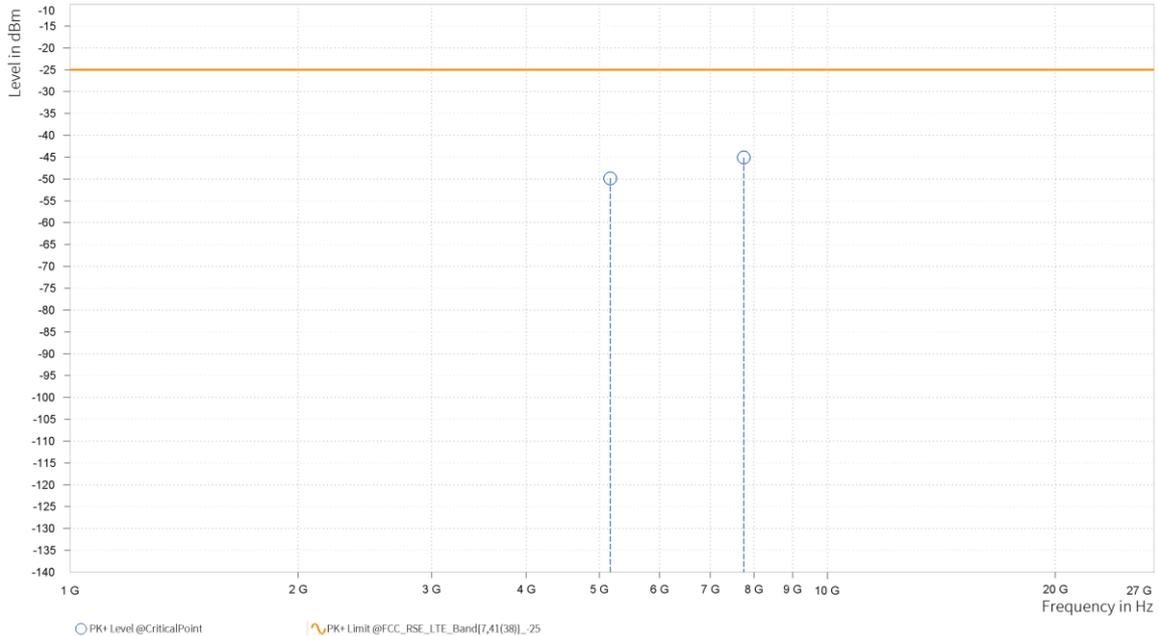




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-49.87	-25.00	24.87	23.72	H	359.1	1.00
5	7,752.000	-45.11	-25.00	20.11	28.17	H	197.3	2.00

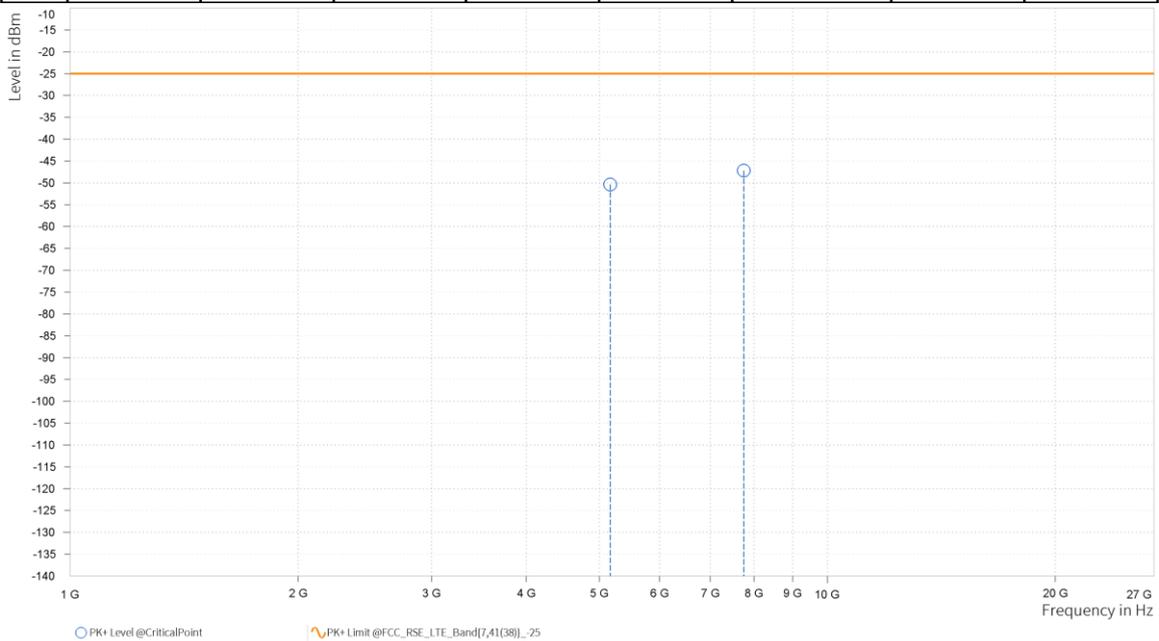




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 40620
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-50.38	-25.00	25.38	24.07	V	245.4	1.00
5	7,752.000	-47.20	-25.00	22.20	27.90	V	307.7	2.00

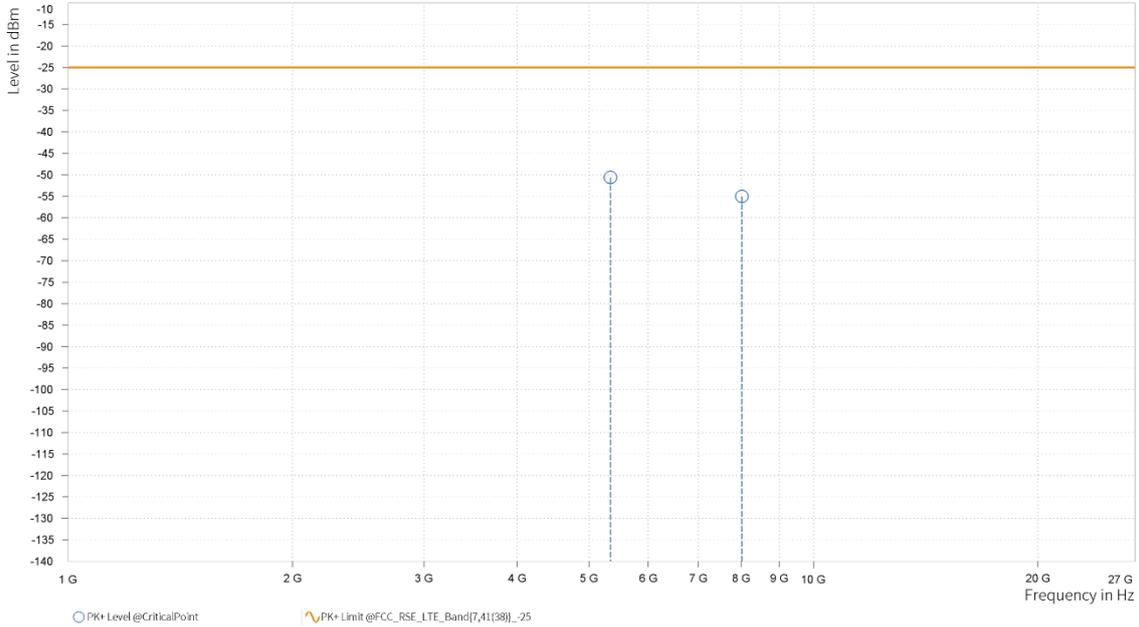




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 41490
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,342.000	-50.61	-25.00	25.61	24.25	H	359.1	1.00
6	8,013.000	-55.06	-25.00	30.06	16.95	H	344.6	2.00

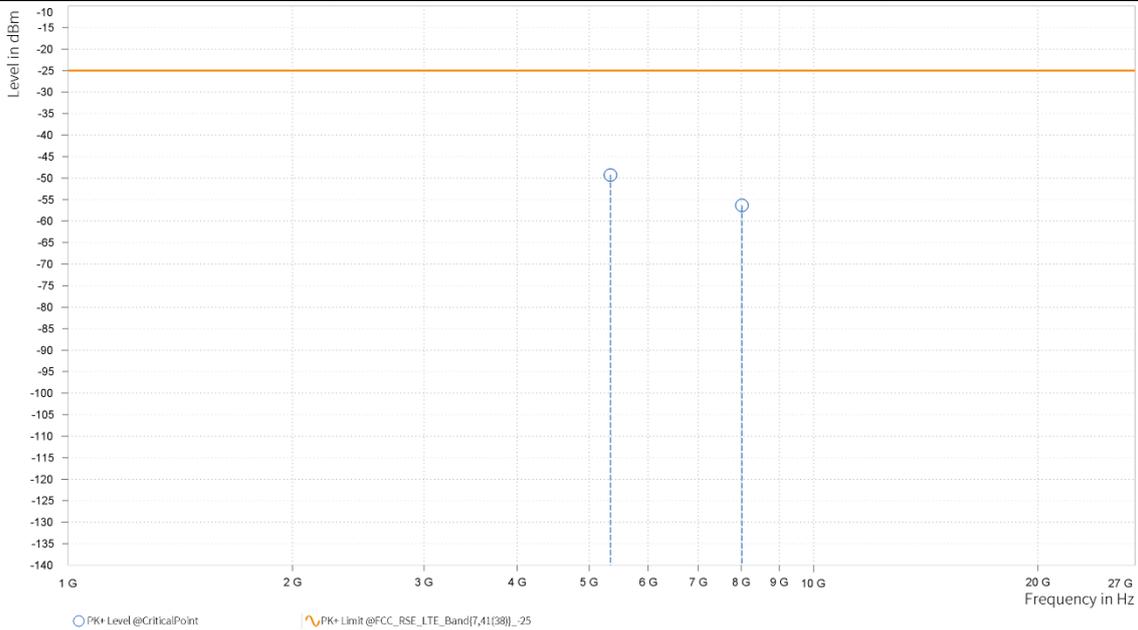




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 41490
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,342.000	-49.27	-25.00	24.27	24.71	V	255.4	1.00
6	8,013.000	-56.37	-25.00	31.37	16.76	V	343.2	2.00

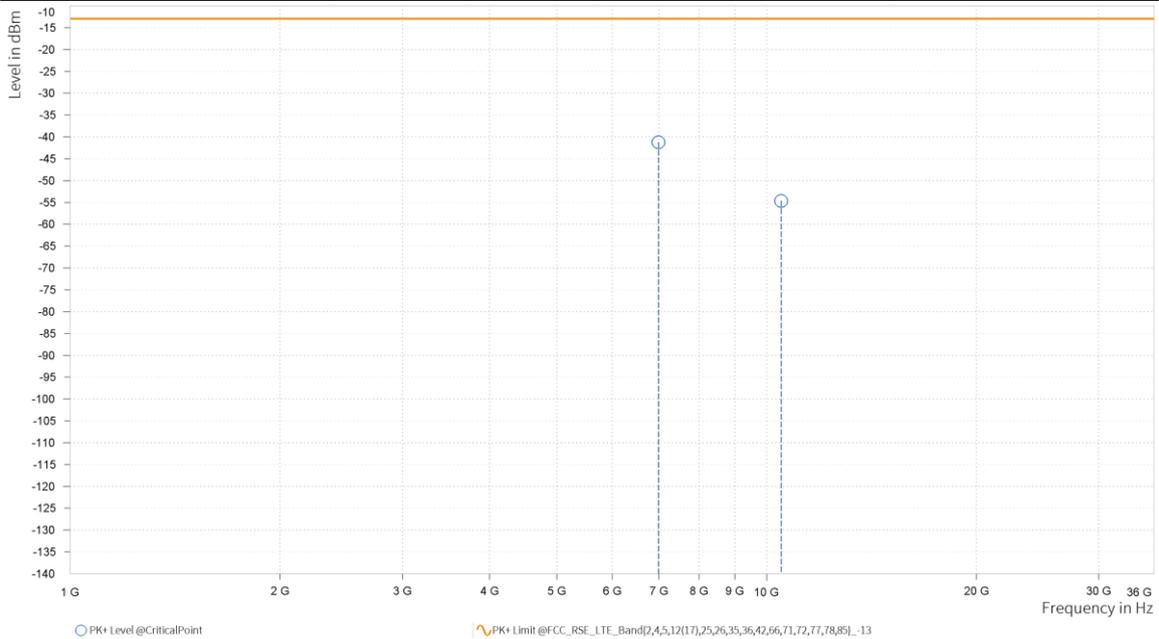




LTE BAND 42			
<b>CHANNEL BANDWIDTH</b>	5MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,995.500	-41.22	-13.00	28.22	32.81	H	310.6	1.00
6	10,493.250	-54.66	-13.00	41.66	18.76	H	261.8	2.00

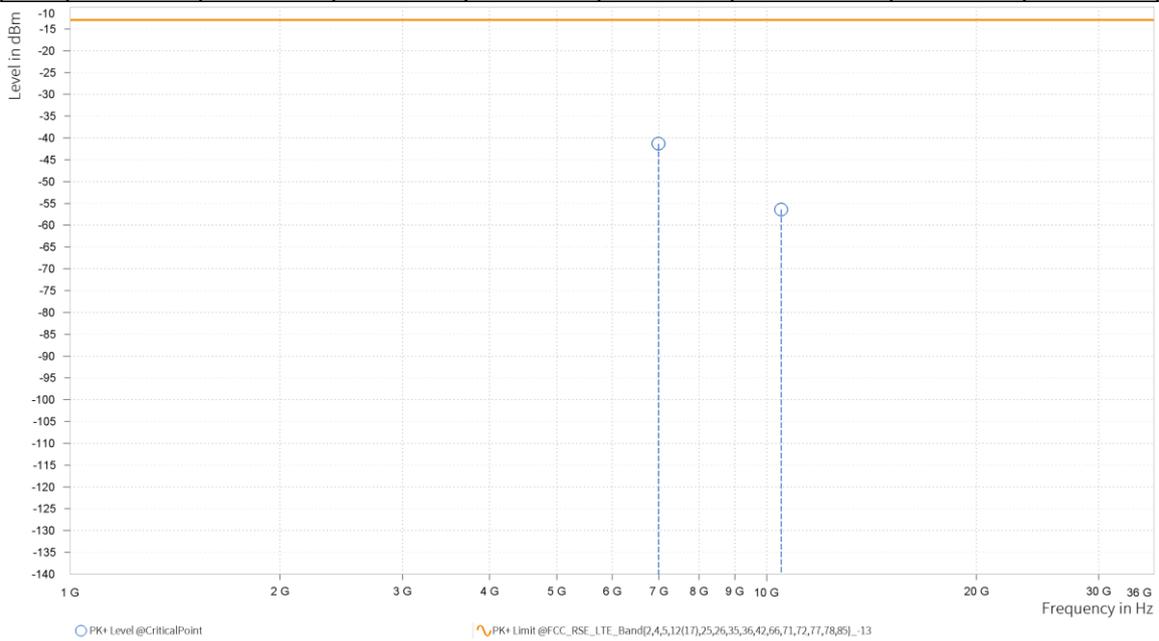




<b>CHANNEL BANDWIDTH</b>	5MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,995.500	-41.32	-13.00	28.32	32.86	V	219.3	1.00
6	10,493.250	-56.39	-13.00	43.39	18.50	V	358.6	2.00

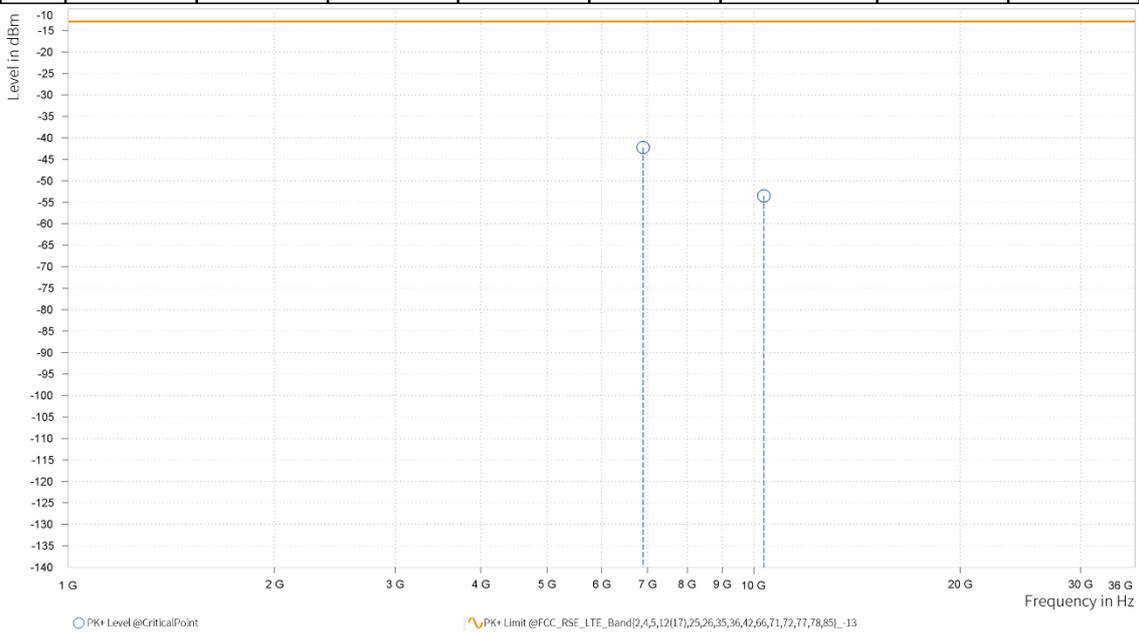




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 42140
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,901.000	-42.26	-13.00	29.26	32.83	H	1	1.00
6	10,351.500	-53.49	-13.00	40.49	17.90	H	359.1	2.00

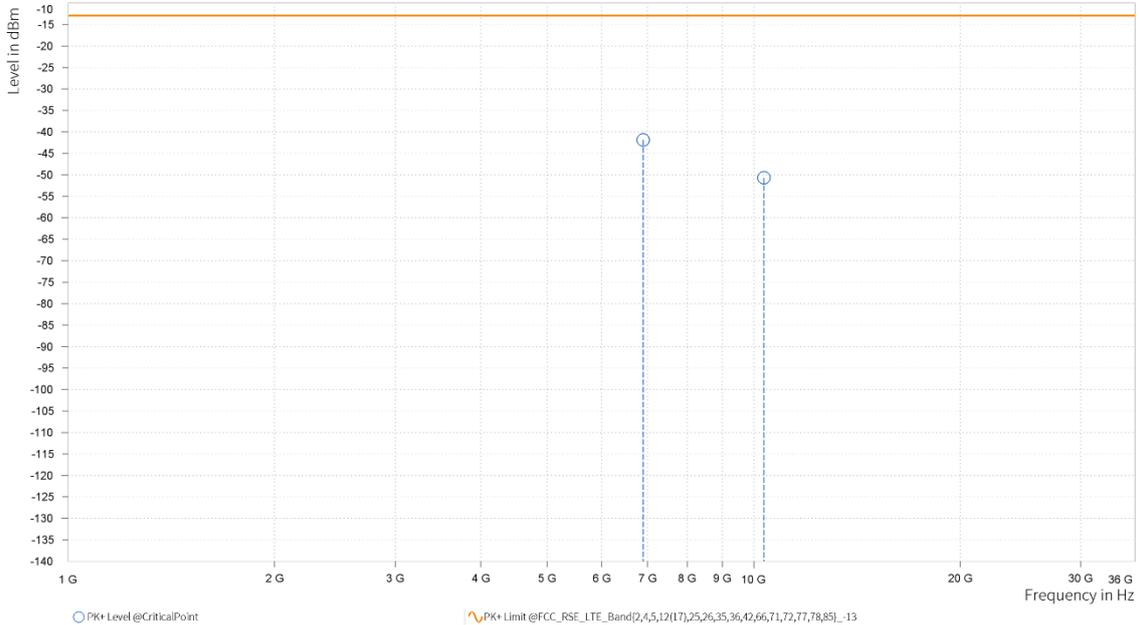




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 42140
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,901.000	-41.88	-13.00	28.88	32.78	V	352.4	1.00
6	10,351.500	-50.67	-13.00	37.67	17.61	V	155.5	2.00

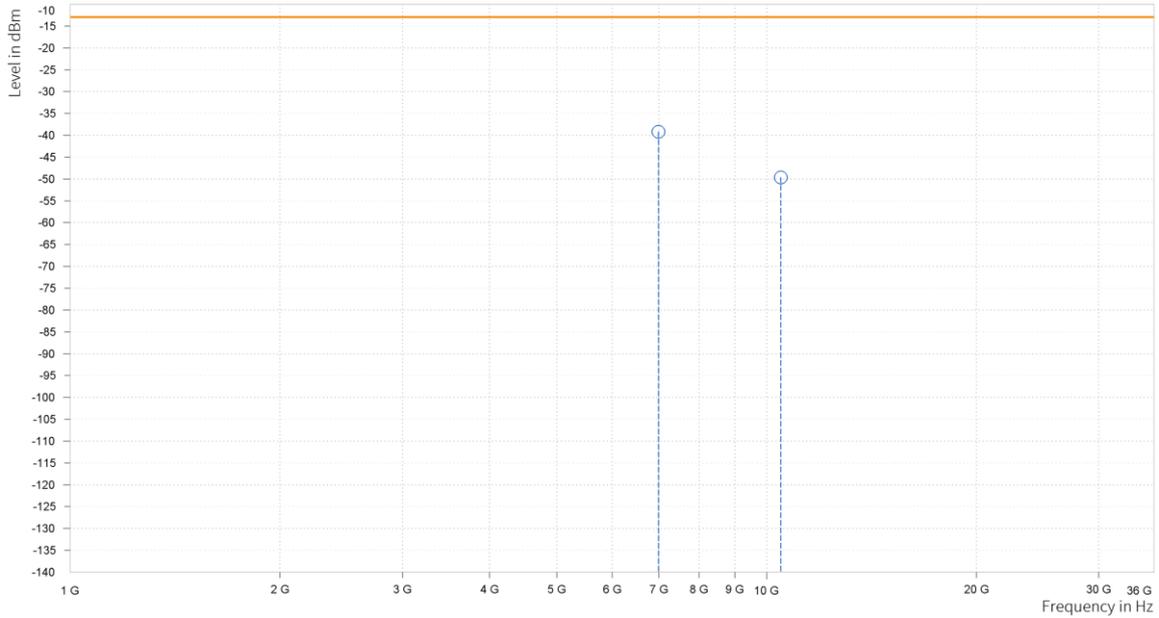




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,991.000	-39.17	-13.00	26.17	32.81	H	359	1.00
6	10,486.500	-49.63	-13.00	36.63	18.72	H	359	2.00

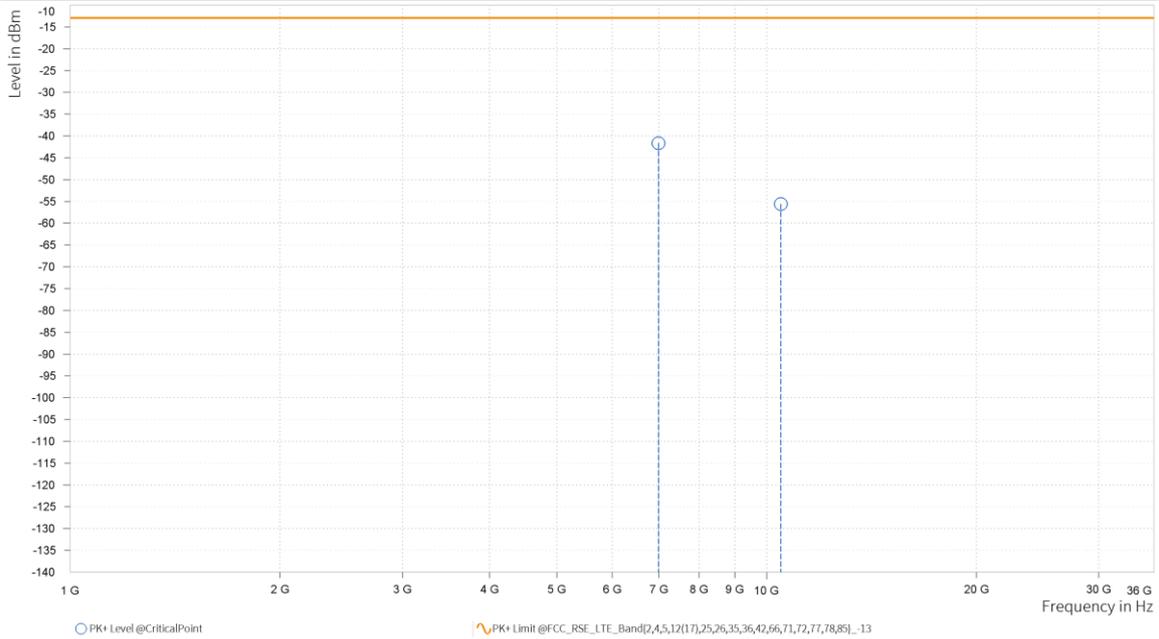




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,991.000	-41.65	-13.00	28.65	32.85	V	139.4	1.00
6	10,486.500	-55.59	-13.00	42.59	18.47	V	222.9	2.00

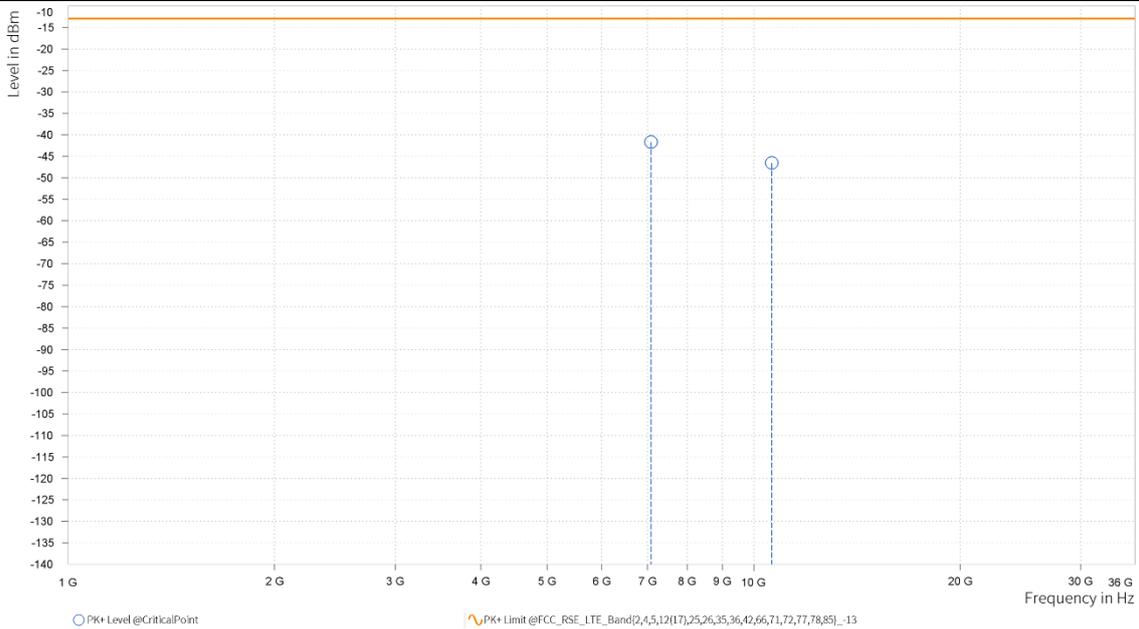




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 43040
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,081.000	-41.70	-13.00	28.70	32.48	H	1	1.00
6	10,621.500	-46.55	-13.00	33.55	18.49	H	268.1	2.00

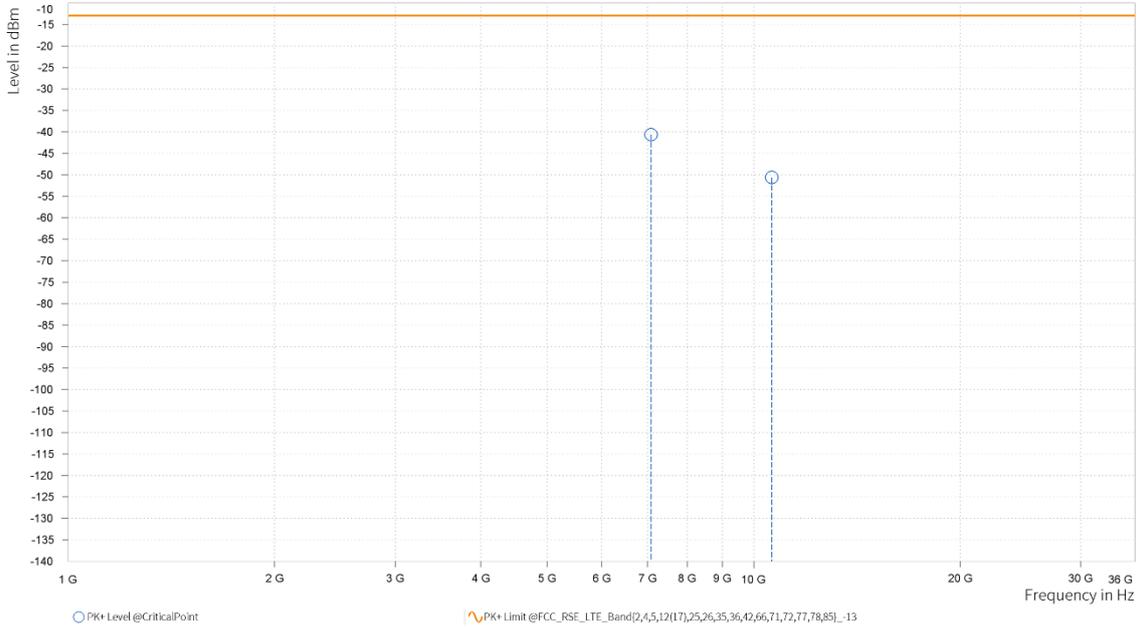




<b>CHANNEL BANDWIDTH</b>	10MHz / QPSK	<b>MODE</b>	TX channel 43040
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,081.000	-40.63	-13.00	27.63	32.23	V	359	1.00
6	10,621.500	-50.62	-13.00	37.62	18.16	V	359	2.00

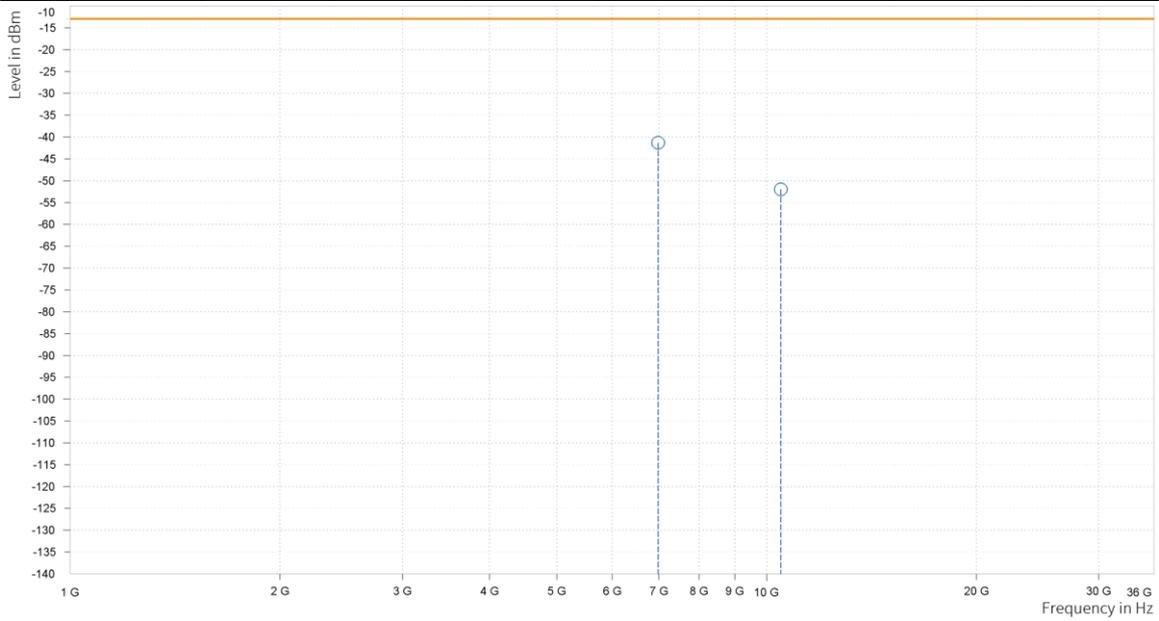




<b>CHANNEL BANDWIDTH</b>	15MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,986.500	-41.32	-13.00	28.32	32.80	H	123.8	1.00
6	10,479.750	-51.96	-13.00	38.96	18.68	H	1	2.00

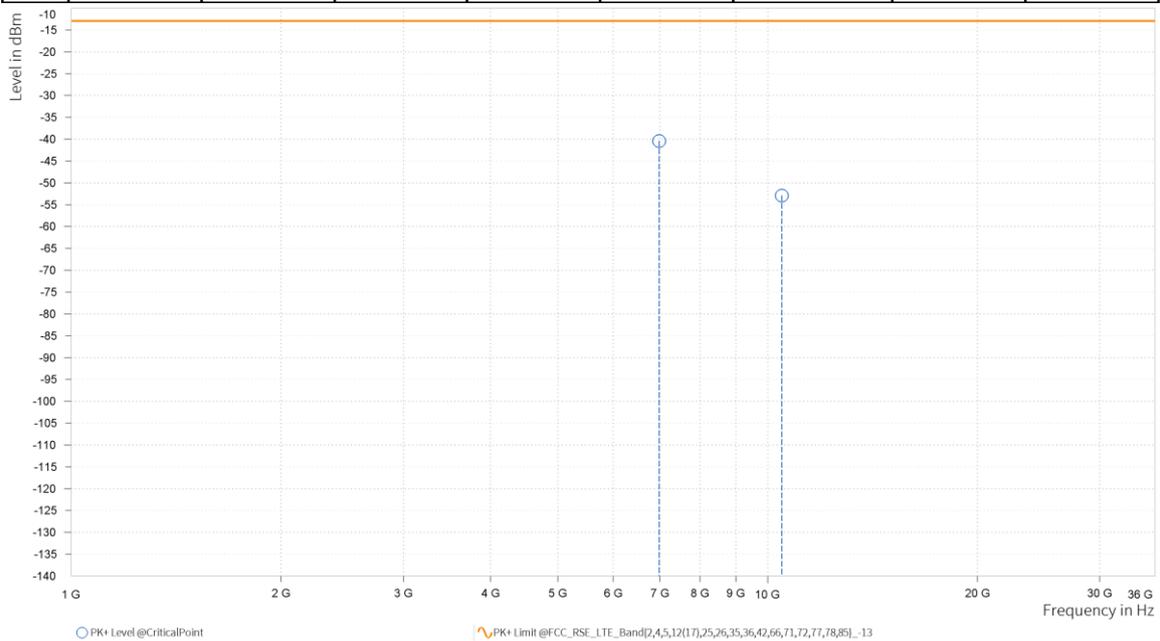




<b>CHANNEL BANDWIDTH</b>	15MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,986.500	-40.42	-13.00	27.42	32.85	V	1	1.00
6	10,479.750	-52.91	-13.00	39.91	18.44	V	359	2.00

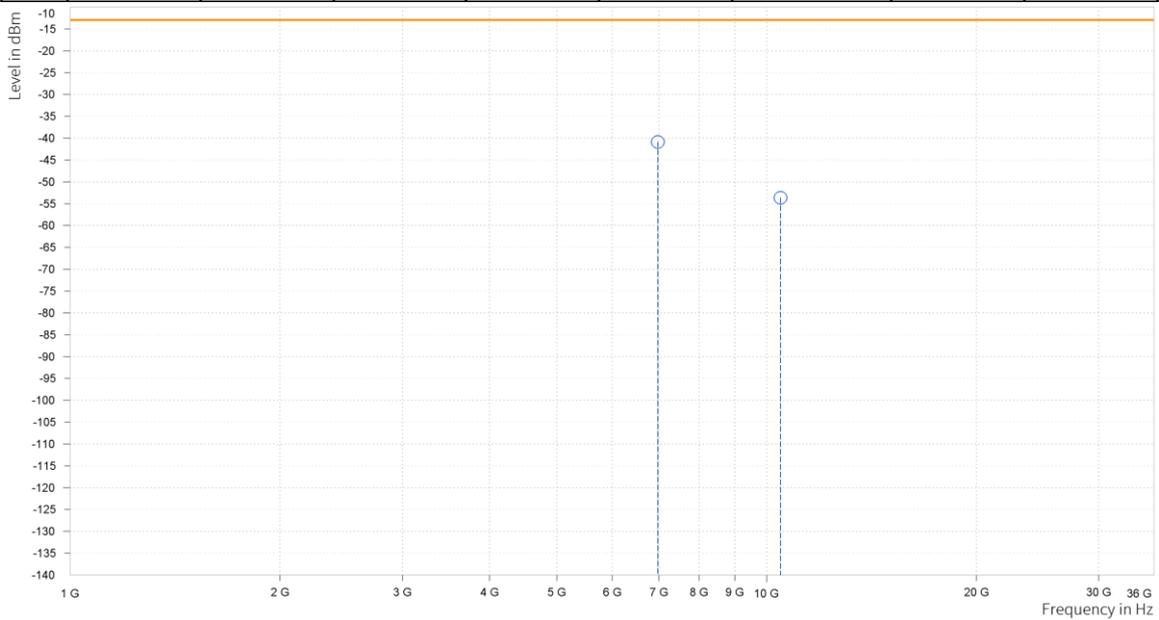




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.000	-40.85	-13.00	27.85	32.80	H	323.3	1.00
6	10,473.000	-53.61	-13.00	40.61	18.64	H	359.1	2.00

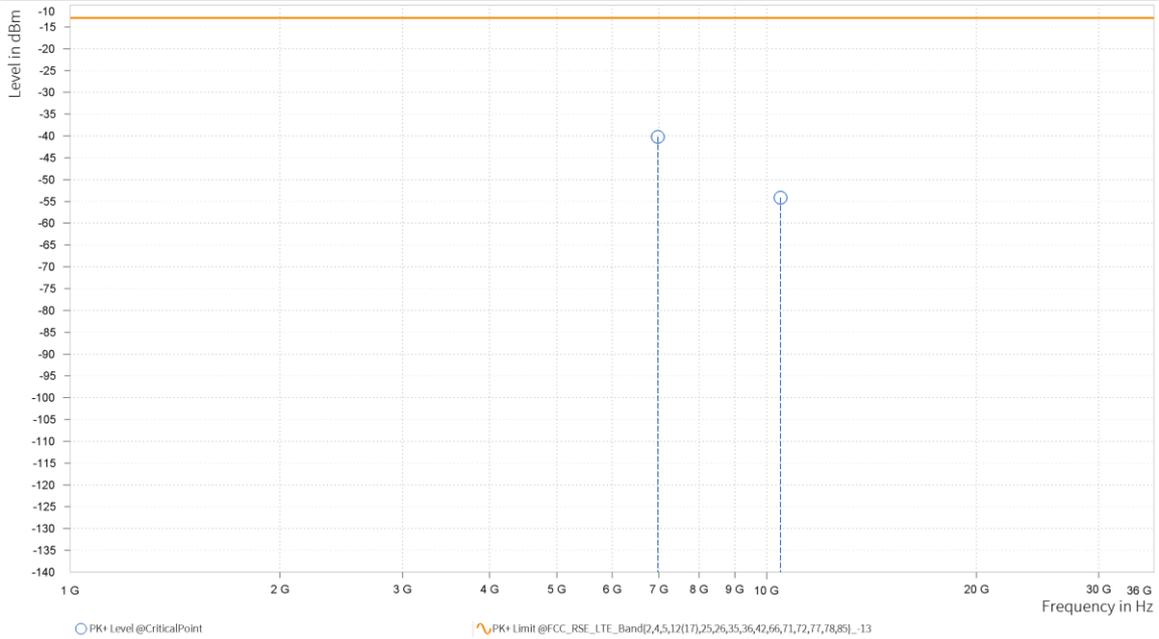




<b>CHANNEL BANDWIDTH</b>	20MHz / QPSK	<b>MODE</b>	TX channel 42590
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.000	-40.19	-13.00	27.19	32.84	V	1	1.00
6	10,473.000	-54.14	-13.00	41.14	18.42	V	244.1	2.00



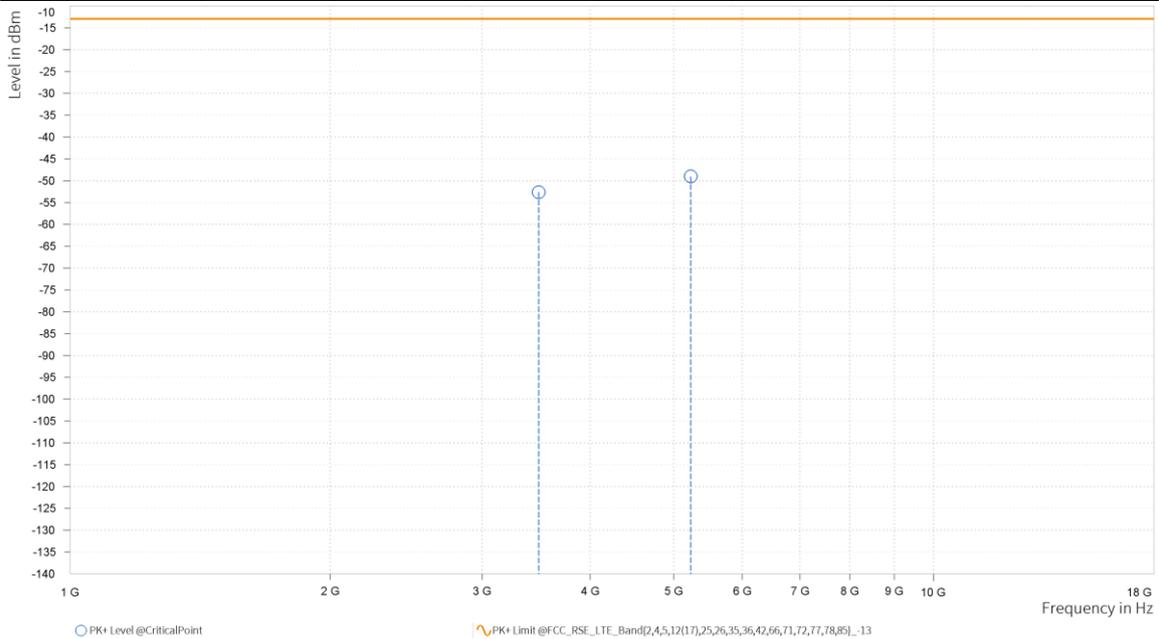


**LTE Band66**

<b>CHANNEL BANDWIDTH</b>	1.4MHz / QPSK	<b>MODE</b>	TX channel 132322
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,488.740	-52.60	-13.00	39.60	20.48	H	315.5	1.00
4	5,233.110	-49.00	-13.00	36.00	24.03	H	231.9	2.00





<b>CHANNEL BANDWIDTH</b>	1.4MHz / QPSK	<b>MODE</b>	TX channel 132322
<b>FREQUENCY RANGE</b>	Above 1000MHz	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH
<b>INPUT POWER</b>	AC 120V 60HZ	<b>TESTED BY</b>	Hanwen Xu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,488.740	-51.08	-13.00	38.08	21.27	V	1	1.00
4	5,233.110	-49.99	-13.00	36.99	24.56	V	313.4	2.00

