



Test Report No.: W7L-220214W001RF03



# FCC TEST REPORT (PART 27)

Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0010, FE5NA0011
Brand Name:	Continental
Model Name:	FE5NA0010, FE5NA0011
FCC ID:	LHJ-FE5NA0010
Date of tests:	Mar. 15, 2022 ~ Sep. 07, 2022

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

- FCC Part 27, Subpart C, M     ANSI/TIA/EIA-603-D
- FCC Part 2                     ANSI/TIA/EIA-603-E     ANSI C63.26-2015

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Date: Sep. 07, 2022	Date: Sep. 07, 2022

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.



## TABLE OF CONTENTS

<b>RELEASE CONTROL RECORD .....</b>	<b>4</b>
<b>1 SUMMARY OF TEST RESULTS .....</b>	<b>5</b>
1.1 MEASUREMENT UNCERTAINTY .....	6
1.2 TEST SITE AND INSTRUMENTS .....	6
<b>2 GENERAL INFORMATION .....</b>	<b>8</b>
2.1 GENERAL DESCRIPTION OF EUT .....	8
2.2 CONFIGURATION OF SYSTEM UNDER TEST .....	18
2.3 DESCRIPTION OF SUPPORT UNITS .....	19
2.4 TEST ITEM AND TEST CONFIGURATION .....	19
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS .....	39
<b>3 TEST TYPES AND RESULTS .....</b>	<b>40</b>
3.1 OUTPUT POWER MEASUREMENT .....	40
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT .....	40
3.1.2 TEST PROCEDURES .....	40
3.1.3 TEST SETUP .....	41
3.1.4 TEST RESULTS .....	42
3.2 FREQUENCY STABILITY MEASUREMENT .....	126
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT .....	126
3.2.2 TEST PROCEDURE .....	126
3.2.3 TEST SETUP .....	126
3.2.4 TEST RESULTS .....	127
3.3 OCCUPIED BANDWIDTH MEASUREMENT .....	131
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT .....	131
3.3.2 TEST SETUP .....	131
3.3.3 TEST PROCEDURES .....	131
3.3.4 TEST RESULTS .....	132
3.4 BAND EDGE MEASUREMENT .....	133
3.4.1 LIMITS OF BAND EDGE MEASUREMENT .....	133
3.4.2 TEST SETUP .....	134
3.4.3 TEST PROCEDURES .....	134
3.4.4 TEST RESULTS .....	135
3.5 CONDUCTED SPURIOUS EMISSIONS .....	136
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT .....	136
3.5.2 TEST PROCEDURE .....	136
3.5.3 TEST SETUP .....	136
3.5.4 TEST RESULTS .....	137
3.6 RADIATED EMISSION MEASUREMENT .....	138
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT .....	138
3.6.2 TEST PROCEDURES .....	138
3.6.3 DEVIATION FROM TEST STANDARD .....	138
3.6.4 TEST SETUP .....	139
3.6.5 TEST RESULTS .....	141
3.7 PEAK TO AVERAGE RATIO .....	283
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT .....	283
3.7.2 TEST SETUP .....	283
3.7.3 TEST PROCEDURES .....	283
3.7.4 TEST RESULTS .....	284



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**Test Report No.: W7L-220214W001RF03**

<b>4 INFORMATION ON THE TESTING LABORATORIES .....</b>	<b>285</b>
<b>5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.</b>	<b>286</b>



Test Report No.: W7L-220214W001RF03

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-220214W001RF03	Original release	Sep. 07, 2022

# 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	RESULT
§2.1046	Coducted Output Power	Compliance
§27.50(b)(10) §27.50(c)(10)	Equivalent Radiated Power (Band12) (Band13) (Band71)	Compliance
§27.50(d)(4) §27.50(h)(2)	Equivalent Isotropically Radiated Power (Band4) (Band7/7C) (Band66/66B/66C)	Compliance
§2.1055 §27.54	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Band Edge Measurements	Compliance
§2.1051 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions	Compliance
§2.1053 §27.53(c)(2)(4) §27.53(g) §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions	Compliance
NA	Peak to average ratio	Compliance



### 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 & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±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.

### 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.16,21	May.15,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.05,21	Sep.04,22
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGRE N	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.13,21	May.12,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.13,21	May.12,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A



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Test Report No.: W7L-220214W001RF03

10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 08,21	May. 07,22
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 08,21	May. 07,22
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 13,21	May. 12,22
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.13,21	May.12,22
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23

- NOTE:**
1. The calibration interval of the above test instruments is 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 525120; The Designation No. is CN1171.

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	FE5NA0010, FE5NA0011	
<b>BRAND NAME</b>	Continental	
<b>MODEL NAME</b>	FE5NA0010, FE5NA0011	
<b>NOMINAL VOLTAGE</b>	EUT 4.0V	
<b>MODULATION TECHNOLOGY</b>	<b>WCDMA IV</b>	BPSK,QPSK
	<b>LTE</b>	QPSK, 16QAM, 64QAM
<b>FREQUENCY RANGE</b>	<b>WCDMA IV</b>	1712.4MHz ~ 1752.6MHz
	<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 7 Channel Bandwidth: 5MHz</b>	2502.5MHz ~ 2567.5MHz
	<b>LTE Band 7 Channel Bandwidth: 10MHz</b>	2505MHz ~ 2565MHz
	<b>LTE Band 7 Channel Bandwidth: 15MHz</b>	2507.5MHz ~ 2562.5MHz
	<b>LTE Band 7 Channel Bandwidth: 20MHz</b>	2510MHz ~ 2560MHz
	<b>LTE Band 12 Channel Bandwidth: 3MHz</b>	700.5MHz ~ 714.5MHz
	<b>LTE Band 12 Channel Bandwidth: 5MHz</b>	701.5MHz ~ 713.5MHz
	<b>LTE Band 12 Channel Bandwidth: 10MHz</b>	704MHz ~ 711MHz
	<b>LTE Band 13 Channel Bandwidth: 5MHz</b>	779.5MHz ~ 784.5MHz
	<b>LTE Band 13 Channel Bandwidth: 10MHz</b>	782MHz
	<b>LTE Band 66 Channel Bandwidth: 1.4MHz</b>	1710.7MHz ~ 1779.3MHz
	<b>LTE Band 66 Channel Bandwidth: 3MHz</b>	1711.5MHz ~ 1778.5MHz



<b>FREQUENCY RANGE</b>	<b>LTE Band 66 Channel Bandwidth: 5MHz</b>	1712.5MHz ~ 1777.5MHz
	<b>LTE Band 66 Channel Bandwidth: 10MHz</b>	1715MHz ~ 1775MHz
	<b>LTE Band 66 Channel Bandwidth: 15MHz</b>	1717.5MHz ~ 1772.5MHz
	<b>LTE Band 66 Channel Bandwidth: 20MHz</b>	1720MHz ~ 1770MHz
	<b>LTE Band 71 Channel Bandwidth: 5MHz</b>	665.5MHz ~ 695.5MHz
	<b>LTE Band 71 Channel Bandwidth: 10MHz</b>	668MHz ~ 693MHz
	<b>LTE Band 71 Channel Bandwidth: 15MHz</b>	670.5MHz ~ 690.5MHz
	<b>LTE Band 71 Channel Bandwidth: 20MHz</b>	673MHz ~ 688MHz
	<b>LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz</b>	2505.5MHz ~ 2560MHz
	<b>LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz</b>	2507.5MHz ~ 2564.7MHz
	<b>LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz</b>	2507.5MHz ~ 2562.5MHz
	<b>LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz</b>	2507.8MHz ~ 2560MHz
	<b>LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz</b>	2510MHz ~ 2564.5MHz
	<b>LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz</b>	2510MHz ~ 2562.5MHz
	<b>LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz</b>	2510MHz ~ 2560MHz
	<b>LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz</b>	1712.5MHz ~ 1772.7MHz
	<b>LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz</b>	1712.8MHz ~ 1767.8MHz
	<b>LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz</b>	1713MHz ~ 1763.2MHz
	<b>LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz</b>	1715MHz ~ 1770MHz

<b>FREQUENCY RANGE</b>	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	1717.5MHz ~ 1767.7MHz	
	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	1715MHz ~ 1765.1MHz	
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	1713.3MHz ~ 1758.3MHz	
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	1715.3MHz ~ 1760.5MHz	
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	1715.5MHz ~ 1755.6MHz	
	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	1717.5MHz ~ 1762.7MHz	
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	1717.5MHz ~ 1757.5MHz	
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	1717.8MHz ~ 1752.9MHz	
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	1720MHz ~ 1765MHz	
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	1720MHz ~ 1760.1MHz	
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	1720MHz ~ 1755.1MHz	
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	1720MHz ~ 1750.2MHz	
	<b>EMISSION DESIGNATOR</b>	WCDMA IV	4M16F9W
		LTE Band 7 Channel Bandwidth: 5MHz	QPSK: 4M50G7D
16QAM: 4M50W7D			
64QAM: 4M50W7D			
LTE Band 7 Channel Bandwidth: 10MHz		QPSK:8M98G7D	
		16QAM: 8M97W7D	
		64QAM: 8M98W7D	
LTE Band 7 Channel Bandwidth: 15MHz		QPSK: 13M5G7D	
		16QAM: 13M5W7D	
	64QAM: 13M5W7D		



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Test Report No.: W7L-220214W001RF03

<b>EMISSION DESIGNATOR</b>	<b>LTE Band 7 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D
		16QAM: 18M0W7D
		64QAM: 18M0W7D
	<b>LTE Band 12 Channel Bandwidth: 1.4MHz</b>	QPSK: 1M10G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D
	<b>LTE Band 12 Channel Bandwidth: 3MHz</b>	QPSK: 2M70G7D
		16QAM: 2M69W7D
		64QAM: 2M69W7D
	<b>LTE Band 12 Channel Bandwidth: 5MHz</b>	QPSK: 4M50G7D
		16QAM: 4M51W7D
		64QAM: 4M50W7D
	<b>LTE Band 12 Channel Bandwidth: 10MHz</b>	QPSK: 8M98G7D
		16QAM: 8M97W7D
		64QAM: 8M97W7D
	<b>LTE Band 13 Channel Bandwidth: 5MHz</b>	QPSK: 4M51G7D
		16QAM: 4M51W7D
		64QAM: 4M50W7D
	<b>LTE Band 13 Channel Bandwidth: 10MHz</b>	QPSK: 8M95G7D
		16QAM: 8M97W7D
		64QAM: 8M96W7D
	<b>LTE Band 66 Channel Bandwidth: 1.4MHz</b>	QPSK: 1M10G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D
<b>LTE Band 66 Channel Bandwidth: 3MHz</b>	QPSK: 2M70G7D	
	16QAM: 2M69W7D	
	64QAM: 2M70W7D	
<b>LTE Band 66 Channel Bandwidth: 5MHz</b>	QPSK: 4M50G7D	
	16QAM: 4M50W7D	
	64QAM: 4M50W7D	
<b>LTE Band 66 Channel Bandwidth: 10MHz</b>	QPSK: 8M97G7D	
	16QAM: 8M97W7D	
	64QAM: 8M98W7D	
<b>LTE Band 66 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D	
	16QAM: 13M5W7D	
	64QAM: 13M5W7D	
<b>LTE Band 66 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D	
	16QAM: 18M0W7D	
	64QAM: 17M9W7D	
<b>LTE Band 71 Channel Bandwidth: 5MHz</b>	QPSK: 4M50G7D	
	16QAM: 4M50W7D	
	64QAM: 4M50W7D	



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Test Report No.: W7L-220214W001RF03

<b>EMISSION DESIGNATOR</b>	LTE Band 71 Channel Bandwidth: 10MHz	QPSK: 8M98G7D
		16QAM: 8M97W7D
		64QAM: 8M98W7D
	LTE Band 71 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
	CLTE Band 71 Channel Bandwidth: 20MHz	QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	QPSK: 28M0G7D
		16QAM: 28M0W7D
		64QAM: 28M0W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +10MHz	QPSK: 23M5G7D
		16QAM: 23M5W7D
		64QAM: 23M5W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +15MHz	QPSK: 28M6G7D
		16QAM: 28M6W7D
		64QAM: 28M6W7D
	LTE Band CA_7C Channel Bandwidth: 15MHz +20MHz	QPSK: 32M8G7D
		16QAM: 32M8W7D
		64QAM: 32M8W7D
	LTE Band CA_7C Channel Bandwidth: 20MHz +10MHz	QPSK: 28M1G7D
		16QAM: 28M1W7D
		64QAM: 28M0W7D
LTE Band CA_7C Channel Bandwidth: 20MHz +15MHz	QPSK: 32M9G7D	
	16QAM: 32M9W7D	
	64QAM: 32M9W7D	
LTE Band CA_7C Channel Bandwidth: 20MHz +20MHz	QPSK: 37M6G7D	
	16QAM: 37M6W7D	
	64QAM: 37M7W7D	
LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz	QPSK: 10M0G7D	
	16QAM: 10M0W7D	
	64QAM: 10M0W7D	
LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz	QPSK: 14M5G7D	
	16QAM: 14M5W7D	
	64QAM: 14M5W7D	
LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz	QPSK: 18M7G7D	
	16QAM: 18M7W7D	
	64QAM: 18M7W7D	
LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz	QPSK: 14M6G7D	
	16QAM: 14M6W7D	
	64QAM: 14M6W7D	



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Test Report No.: W7L-220214W001RF03

<b>EMISSION DESIGNATOR</b>	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	QPSK: 19M3G7D 16QAM: 19M3W7D 64QAM: 19M3W7D	
	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	QPSK: 18M8G7D 16QAM: 18M8W7D 64QAM: 18M8W7D	
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	QPSK: 23M2G7D 16QAM: 23M2W7D 64QAM: 23M2W7D	
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	QPSK: 23M5G7D 16QAM: 23M5W7D 64QAM: 23M5W7D	
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	QPSK: 28M0G7D 16QAM: 28M0W7D 64QAM: 28M0W7D	
	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	QPSK: 23M5G7D 16QAM: 23M5W7D 64QAM: 23M5W7D	
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	QPSK: 28M6G7D 16QAM: 28M6W7D 64QAM: 28M6W7D	
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	QPSK: 32M8G7D 16QAM: 32M8W7D 64QAM: 32M8W7D	
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	QPSK: 23M4G7D 16QAM: 23M4W7D 64QAM: 23M4W7D	
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	QPSK: 28M1G7D 16QAM: 28M1W7D 64QAM: 28M1W7D	
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	QPSK: 32M8G7D 16QAM: 32M9W7D 64QAM: 32M8W7D	
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	QPSK: 37M7G7D 16QAM: 37M6W7D 64QAM: 37M6W7D	
	<b>MAX. EIRP POWER</b>	WCDMA IV	162.18mW
		LTE Band 4 Channel Bandwidth: 1.4MHz	440.55mW
		LTE Band 4 Channel Bandwidth: 3MHz	435.51mW
LTE Band 4 Channel Bandwidth: 5MHz		438.53mW	

<b>MAX. EIRP POWER</b>	<b>LTE Band 4 Channel Bandwidth: 10MHz</b>	439.54mW
	<b>LTE Band 4 Channel Bandwidth: 15MHz</b>	440.55mW
	<b>LTE Band 4 Channel Bandwidth: 20MHz</b>	442.59mW
	<b>LTE Band 7 Channel Bandwidth: 5MHz</b>	321.37mW
	<b>LTE Band 7 Channel Bandwidth: 10MHz</b>	325.09mW
	<b>LTE Band 7 Channel Bandwidth: 15MHz</b>	322.85mW
	<b>LTE Band 7 Channel Bandwidth: 20MHz</b>	326.59mW
	<b>LTE Band 12 Channel Bandwidth: 1.4MHz</b>	88.51mW
	<b>LTE Band 12 Channel Bandwidth: 3MHz</b>	88.51mW
	<b>LTE Band 12 Channel Bandwidth: 5MHz</b>	89.33mW
	<b>LTE Band 12 Channel Bandwidth: 10MHz</b>	89.54mW
	<b>LTE Band 13 Channel Bandwidth: 5MHz</b>	90.36mW
	<b>LTE Band 13 Channel Bandwidth: 10MHz</b>	91.20mW
	<b>LTE Band 66 Channel Bandwidth: 1.4MHz</b>	446.68mW
	<b>LTE Band 66 Channel Bandwidth: 3MHz</b>	439.54mW
	<b>LTE Band 66 Channel Bandwidth: 5MHz</b>	438.53mW
	<b>LTE Band 66 Channel Bandwidth: 10MHz</b>	438.53mW
	<b>LTE Band 66 Channel Bandwidth: 15MHz</b>	433.51mW
	<b>LTE Band 66 Channel Bandwidth: 20MHz</b>	426.58mW
	<b>LTE Band 71 Channel Bandwidth: 5MHz</b>	128.23mW
	<b>LTE Band 71 Channel Bandwidth: 10MHz</b>	128.23mW
	<b>LTE Band 71 Channel Bandwidth: 15MHz</b>	128.53mW
	<b>LTE Band 71 Channel Bandwidth: 20MHz</b>	128.82mW



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Test Report No.: W7L-220214W001RF03

<b>MAX. EIRP POWER</b>	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	307.61mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	308.32mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	304.79mW
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	309.09mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	307.61mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	309.74mW
	LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz	322.11mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+5MHz	399.02mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+10MHz	400.87mW
	LTE Band CA_66B Channel Bandwidth: 5MHz+15MHz	399.02mW
	LTE Band CA_66B Channel Bandwidth: 10MHz+5MHz	401.79mW
	LTE Band CA_66B Channel Bandwidth: 15MHz+5MHz	402.72mW
	LTE Band CA_66B Channel Bandwidth: 10MHz+10MHz	409.26mW
	LTE Band CA_66C Channel Bandwidth: 5MHz+20MHz	408.32mW
	LTE Band CA_66C Channel Bandwidth: 10MHz+15MHz	405.51mW
	LTE Band CA_66C Channel Bandwidth: 10MHz+20MHz	407.38mW



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Test Report No.: W7L-220214W001RF03

<b>MAX. EIRP POWER</b>	LTE Band CA_66C Channel Bandwidth: 15MHz+10MHz	408.32mW
	LTE Band CA_66C Channel Bandwidth: 15MHz+15MHz	408.32mW
	LTE Band CA_66C Channel Bandwidth: 15MHz+20MHz	408.32mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+5MHz	410.20mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+10MHz	409.26mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+15MHz	411.15mW
	LTE Band CA_66C Channel Bandwidth: 20MHz+20MHz	414.95mW
<b>ANTENNA TYPE</b>	Monopole Antenna with 1.69 dBi gain for LTE7/LTE7C Monopole Antenna with -1.88 dBi gain for LTE12 Monopole Antenna with -1.88 dBi gain for LTE13 Monopole Antenna with 0.14 dBi gain for LTE71 Monopole Antenna with 3.09 dBi gain for WCDMA IV /LTE4/ LTE66/ LTE66B /LTE66C	
<b>HW VERSION</b>	P4.1	
<b>SW VERSION</b>	MODEMSA515M_LE2.1_01.12.13	
<b>I/O PORTS</b>	Refer to user's manual	
<b>CABLE SUPPLIED</b>	N/A	
<b>EXTREME TEMPERATURE</b>	-40-85 °C	
<b>EXTREME VOLTAGE</b>	EUT 3.8V - EUT 4.2V	

**NOTE:**

- 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 one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
WCDMA	1TX/2RX
LTE	1TX/4RX

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





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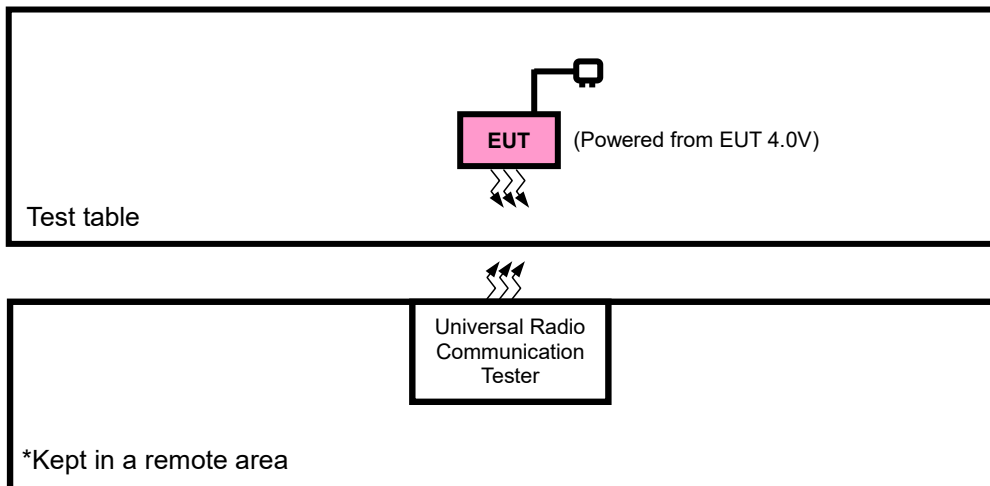
**Test Report No.: W7L-220214W001RF03**

4. According to the information provided by the manufacturer, The difference between FE5NA0010, FE5NA0011 is as follows:

TA-code	L2/L5 GNSS	Band Difference
FE5NA0010	support	/
FE5NA0011	not support	BOM change: depopulated passive components from the GNSS RF front-end

## 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	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

### 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 + DC Source with WCDMA or LTE link

#### WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
A	FREQUENCY STABILITY	1312 to 1513	1312, 1413, 1513	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513	1312, 1513	WCDMA
A	PEAK TO AVERAGE RATIO	1312 to 1513	1312, 1413, 1513	WCDMA
A	CONDUCTED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

**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	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	20MHz	QPSK	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 please refer to LTE Band 66

**LTE BAND 7 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDT H	MODULATION	MODE		
A	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
A	FREQUENCY STABILITY	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset		
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
		20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB Offset		
		20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB Offset		
A	BAND EDGE	20775 to 21425	20775	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			21425	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		20800 to 21400	20800	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			21400	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		20825 to 21375	20825	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset		
			21375	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset		
		20850 to 21350	20850	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
			21350	20MHz	QPSK, 16QAM, 64QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0RB Offset
				20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset		
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB / 0 RB Offset		
		20825 to 21375	21100	15MHz	QPSK	1 RB / 0 RB Offset		
		20850 to 21350	21100	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 12 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
A	ERP	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
A	FREQUENCY STABILITY	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
A	BAND EDGE	23017 to 23173	23017	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
			23173	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23025 to 23165	23025	3MHz	QPSK, 16QAM, 64QAM	1 RB / 5 RB Offset		
			23165	3MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset		
		23035 to 23155	23035	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
			23155	5MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset		
		23060 to 23130	23060	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset		
			23130	10MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset		
		A	CONDUCTED EMISSION	23017 to 23173	23017, 23095 , 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23025 to 23165	23025, 23095 ,23165	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23035 to 23155	23035, 23095 ,23155	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
				23060 to 23130	23060, 23095 ,23130	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	23017 to 23173	23095	1.4MHz	QPSK	1 RB / 0 RB Offset		
		23025 to 23165	23095	3MHz	QPSK	1 RB / 0 RB Offset		
		23035 to 23155	23095	5MHz	QPSK	1 RB / 0 RB Offset		
		23060 to 23130	23060, 23095 ,23130	10MHz	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 13 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23205 to 23255	20025, 20175, 20325	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	23205 to 23255	20025, 20175, 20325	1.4MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	23205 to 23255	20025, 20175, 20325	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	BAND EDGE	23205 to 23255	23250	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset
			23255	5MHz	QPSK,16QAM, 64QAM	25 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
						1 RB / 0 RB Offset
						50 RB / 0 RB Offset
1 RB / 49 RB Offset						
/						
A	CONDUCTED EMISSION	23205 to 23255	20025, 20175, 20325	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		23230	23230	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	23205 to 23255	20025, 20175, 20325	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230	10MHz	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 Report No.: W7L-220214W001RF03

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	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset
A	BAND EDGE	131979 to 132322	131979	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			132322	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			132657	3MHz	QPSK,16QAM, 64QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		131987 to 132657	131987	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			132657	5MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		131997 to 132647	131997	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			132647	10MHz	QPSK,16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			132597	15MHz	QPSK,16QAM, 64QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset





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**Test Report No.: W7L-220214W001RF03**

			132572	20MHz	QPSK,16QAM, 64QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset
A	CONDUCTED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	131979 to 132665	131979,132322,132665	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	132322	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 Report No.: W7L-220214W001RF03

LTE BAND 71 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
A	ERP	133147 to 133447	133147, 133247, 133447	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset		
		133172 to 133422	133172, 133272, 133422	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset		
		133197 to 133397	133197, 133297, 133397	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset		
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset		
A	FREQUENCY STABILITY	133147 to 133447	133147, 133247, 133447	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset		
		133172 to 133422	133172, 133272, 133422	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset		
		133197 to 133397	133197, 133297, 133397	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset		
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset		
A	OCCUPIED BANDWIDTH	133147 to 133447	133147, 133247, 133447	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset		
		133172 to 133422	133172, 133272, 133422	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset		
		133197 to 133397	133197, 133297, 133397	15MHz	QPSK,16QAM,64QAM	75 RB / 0 RB Offset		
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK,16QAM,64QAM	100 RB / 0 RB Offset		
A	BAND EDGE	133147 to 133447	133147	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			133447	5MHz	QPSK,16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		133172 to 133422	133172	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			133422	10MHz	QPSK,16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		133197 to 133397	133197	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset		
			133397	15MHz	QPSK,16QAM, 64QAM	1 RB / 74 RB Offset 75 RB / 0 RB Offset		
		133222 to 133372	133222	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
			133372	20MHz	QPSK,16QAM, 64QAM	1 RB / 99 RB Offset 100 RB / 0 RB Offset		
		A	CONDUCTED EMISSION	133147 to 133447	133147, 133247, 133447	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
				133172 to 133422	133172, 133272, 133422	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset



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Test Report No.: W7L-220214W001RF03

		133197 to 133397	133197, 133297, 133397	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		133222 to 133372	133222, 133322, 133372	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	133147 to 133447	133247	5MHz	QPSK	1 RB / 0 RB Offset
		133172 to 133422	133172, 133272, 133422	10MHz	QPSK	1 RB / 0 RB Offset
		133197 to 133397	133297	15MHz	QPSK	1 RB / 0 RB Offset
		133222 to 133372	133322	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 CA\_7C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	20805 to 21206	20949 to 21350	Low	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	100RB/ 0RB Offset
				High	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	100RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low	15MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 74RB Offset	1RB/ 0RB Offset
							75RB/ 0RB Offset	50RB/ 0RB Offset
				High	15MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 74RB Offset	1RB/ 0RB Offset
							75RB/ 0RB Offset	50RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
							1RB/ 74RB Offset	1RB/ 0RB Offset



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**Test Report No.: W7L-220214W001RF03**

				High	15MHz+15MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	75RB/ 0RB Offset		
							1RB/ 0RB Offset	1RB/ 74RB Offset		
							1RB/ 74RB Offset	1RB/ 0RB Offset		
							75RB/ 0RB Offset	75RB/ 0RB Offset		
		20828 to 21179	20999 to 21350	Low			15MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
									1RB/ 99RB Offset	1RB/ 0RB Offset
									75RB/ 0RB Offset	100RB/ 0RB Offset
				High			15MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
									1RB/ 99RB Offset	1RB/ 0RB Offset
									75RB/ 0RB Offset	100RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low			20MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
									1RB/ 99RB Offset	1RB/ 0RB Offset
									100RB/ 0RB Offset	50RB/ 0RB Offset
				High			20MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
									1RB/ 99RB Offset	1RB/ 0RB Offset
									100RB/ 0RB Offset	50RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low			20MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
									1RB/ 99RB Offset	1RB/ 0RB Offset
									100RB/ 0RB Offset	75RB/ 0RB Offset
				High			20MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
1RB/ 99RB Offset	1RB/ 0RB Offset									
100RB/ 0RB Offset	75RB/ 0RB Offset									
20850 to 21152	21048 to 21350	Low			20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset		
							1RB/ 99RB Offset	1RB/ 0RB Offset		
							100RB/ 0RB Offset	100RB/ 0RB Offset		
		High			20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset		
							1RB/ 99RB Offset	1RB/ 0RB Offset		
							100RB/ 0RB Offset	100RB/ 0RB Offset		
A	CONDCUDE TED EMISSION	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset		



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VERITAS

Test Report No.: W7L-220214W001RF03

		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	20805 to 21206	20949 to 21350	Middle	10MHz+20MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Middle	15MHz+15MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Middle	15MHz+20MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Middle	20MHz+10MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Middle	20MHz+15MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Middle	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset

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



LTE BAND CA\_66B MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	131997 to 132599	132045 to 132647	Low, Middle, High	5MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		132000 to 132550	132072 to 132622	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		132022 to 132572	132094 to 132644	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132002 to 132504	132095 to 132597	Low, Middle, High	5MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Low, Middle, High	15MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	131997 to 132599	132045 to 132647	Low, Middle, High	5MHz+5MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	25RB/ 0RB Offset
		132000 to 132550	132072 to 132622	Low, Middle, High	5MHz+10MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	100RB/ 0RB Offset
		132022 to 132572	132094 to 132644	Low, Middle, High	10MHz+5MHz	QPSK, 16QAM, 64QAM	50RB/ 0RB Offset	25RB/ 0RB Offset
		132002 to 132504	132095 to 132597	Low, Middle, High	5MHz+15MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	75RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Low, Middle, High	15MHz+5MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	25RB/ 0RB Offset
		132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK, 16QAM, 64QAM	50RB/ 0RB Offset	50RB/ 0RB Offset
A	BAND EDGE	132005 to 132455	132122 to 132572	Low	5MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
				High	5MHz+5MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	25RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 24RB Offset
		132025 to 132477	132145 to 132597	Low	5MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
				High	5MHz+10MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	100RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 49RB Offset
1RB/ 24RB Offset	1RB/ 0RB Offset							



Test Report No.: W7L-220214W001RF03

A	BAND EDGE	132027 to 132428	132171 to 132572	Low	10MHz+5MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	50RB/ 0RB Offset	
							1RB/ 0RB Offset	1RB/ 24RB Offset	
				1RB/ 49RB Offset	1RB/ 0RB Offset				
				50RB/ 0RB Offset	25RB/ 0RB Offset				
		High	10MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset			
					1RB/ 49RB Offset	1RB/ 0RB Offset			
					50RB/ 0RB Offset	25RB/ 0RB Offset			
		132047 to 132499	132167 to 132619	Low	5MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset	
							1RB/ 24RB Offset	1RB/ 0RB Offset	
				High	5MHz+15MHz		QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	75RB/ 0RB Offset
								1RB/ 0RB Offset	1RB/ 74RB Offset
		1RB/ 24RB Offset	1RB/ 0RB Offset						
		25RB/ 0RB Offset	75RB/ 0RB Offset						
		132047 to 132447	132197 to 132597	Low	15MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset	
							1RB/ 74RB Offset	1RB/ 0RB Offset	
				High	15MHz+5MHz		QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	25RB/ 0RB Offset
1RB/ 0RB Offset	1RB/ 24RB Offset								
1RB/ 74RB Offset	1RB/ 0RB Offset								
75RB/ 0RB Offset	25RB/ 0RB Offset								
132050 to 132401	132221 to 132572	Low	10MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset			
					1RB/ 49RB Offset	1RB/ 0RB Offset			
		High	10MHz+10MHz		QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	50RB/ 0RB Offset		
						1RB/ 0RB Offset	1RB/ 49RB Offset		
1RB/ 49RB Offset	1RB/ 0RB Offset								
100RB/ 0RB Offset	50RB/ 0RB Offset								
A	CONDCUDED EMISSION	131997 to 132599	132045 to 132647	Low, Middle, High	5MHz+5MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset	
		132000 to 132550	132072 to 132622	Low, Middle, High	5MHz+10MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset	





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Test Report No.: W7L-220214W001RF03

		132022 to 132572	132094 to 132644	Low, Middle, High	10MHz+15MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
		132002 to 132504	132095 to 132597	Low, Middle, High	5MHz+15MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Low, Middle, High	15MHz+5MHz	QPSK,	1RB/ 74RB Offset	1RB/ 0RB Offset
		132022 to 132523	132121 to 132622	Low, Middle, High	10MHz+10MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	131997 to 132599	132045 to 132647	Middle	5MHz+5MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		132000 to 132550	132072 to 132622	Low, Middle, High	5MHz+10MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		132022 to 132572	132094 to 132644	Middle	10MHz+15MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
		132002 to 132504	132095 to 132597	Middle	5MHz+15MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		132047 to 132549	132140 to 132642	Middle	15MHz+5MHz	QPSK,	1RB/ 74RB Offset	1RB/ 0RB Offset
		132022 to 132523	132121 to 132622	Middle	10MHz+10MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset

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



Test Report No.: W7L-220214W001RF03

LTE BAND CA\_66C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILAB LE PCC CHANNE L	AVAILAB LE SCC CHANNE L	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	132005 to 132455	132122 to 132572	Low, Middle, High	5MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		132025 to 132477	132145 to 132597	Low, Middle, High	10MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132027 to 132428	132171 to 132572	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		132047 to 132499	132167 to 132619	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132050 to 132401	132221 to 132572	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Low, Middle, High	20MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	132005 to 132455	132122 to 132572	Low, Middle, High	5MHz+20MHz	QPSK, 16QAM, 64QAM	25RB/ 0RB Offset	100RB/ 0RB Offset
		132025 to 132477	132145 to 132597	Low, Middle, High	10MHz+15MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		132027 to 132428	132171 to 132572	Low, Middle, High	10MHz+20MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
		132047 to 132499	132167 to 132619	Low, Middle, High	15MHz+10MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Low, Middle, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		132050 to 132401	132221 to 132572	Low, Middle, High	15MHz+20MHz	QPSK, 16QAM, 64QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Low, Middle, High	20MHz+5MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	25RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low, Middle, High	20MHz+10MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low, Middle, High	20MHz+15MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	132005 to 132455	132122 to 132572	Low	5MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 24RB Offset	1RB/ 0RB Offset
				25RB/ 0RB Offset	100RB/ 0RB Offset			
				High	5MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
		1RB/ 24RB Offset	1RB/ 0RB Offset					
25RB/ 0RB Offset	100RB/ 0RB Offset							
132025 to 132477	132145 to 132597	Low	10MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset		



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**Test Report No.: W7L-220214W001RF03**

A	BAND EDGE	132027 to 132428	132171 to 132572	High	10MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	75RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 74RB Offset
				Low	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
							50RB/ 0RB Offset	75RB/ 0RB Offset
							1RB/ 0RB Offset	1RB/ 99RB Offset
		High	10MHz+20MHz	QPSK, 16QAM, 64QAM	1RB/ 49RB Offset	1RB/ 0RB Offset		
					50RB/ 0RB Offset	100RB/ 0RB Offset		
					1RB/ 0RB Offset	1RB/ 99RB Offset		
		Low	15MHz+10MH	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset		
					1RB/ 74RB Offset	1RB/ 0RB Offset		
					75RB/ 0RB Offset	50RB/ 0RB Offset		
		High	15MHz+10MH	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset		
					1RB/ 74RB Offset	1RB/ 0RB Offset		
					75RB/ 0RB Offset	50RB/ 0RB Offset		
		Low	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset		
					1RB/ 74RB Offset	1RB/ 0RB Offset		
					75RB/ 0RB Offset	75RB/ 0RB Offset		
		High	15MHz+15MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset		
					1RB/ 74RB Offset	1RB/ 0RB Offset		
					75RB/ 0RB Offset	75RB/ 0RB Offset		
		Low	15MHz+20MH	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset		
					1RB/ 74RB Offset	1RB/ 0RB Offset		
					75RB/ 0RB Offset	100RB/ 0RB Offset		
High	15MHz+20MH	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset				
			1RB/ 74RB Offset	1RB/ 0RB Offset				
			75RB/ 0RB Offset	100RB/ 0RB Offset				



Test Report No.: W7L-220214W001RF03

A	BAND EDGE	132072 to 132522	132189 to 132639	Low	20MHz+5MHz	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset	
							1RB/ 99RB Offset	1RB/ 0RB Offset	
							100RB/ 0RB Offset	25RB/ 0RB Offset	
		132072 to 132522	132189 to 132639	High	20MHz+5MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 24RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	25RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low	20MHz+10MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	50RB/ 0RB Offset
				High	20MHz+10MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 49RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	50RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low	20MHz+15MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	75RB/ 0RB Offset
				High	20MHz+15MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 74RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	75RB/ 0RB Offset
		132072 to 132374	132270 to 132572	Low	20MHz+20MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
								1RB/ 99RB Offset	1RB/ 0RB Offset
								100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCED EMISSION	132005 to 132455	132122 to 132572	Low, Middle, High	5MHz+20MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset	
		132025 to 132477	132145 to 132597	Low, Middle, High	10MHz+15MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset	
		132027 to 132428	132171 to 132572	Low, Middle, High	10MHz+20MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset	



**Test Report No.: W7L-220214W001RF03**

		132047 to 132499	132167 to 132619	Low, Middle, High	15MHz+10MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Low, Middle, High	15MHz+15MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132050 to 132401	132221 to 132572	Low, Middle, High	15MHz+20MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Low, Middle, High	20MHz+5MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Low, Middle, High	20MHz+10MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Low, Middle, High	20MHz+15MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	CONDCUDED EMISSION	132072 to 132374	132270 to 132572	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	132005 to 132455	132122 to 132572	Low, Middle, High	5MHz+20MHz	QPSK	1RB/ 24RB Offset	1RB/ 0RB Offset
		132025 to 132477	132145 to 132597	Middle	10MHz+15MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		132027 to 132428	132171 to 132572	Middle	10MHz+20MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		132047 to 132499	132167 to 132619	Middle	15MHz+10MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132047 to 132447	132197 to 132597	Middle	15MHz+15MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132050 to 132401	132221 to 132572	Middle	15MHz+20MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		132072 to 132522	132189 to 132639	Middle	20MHz+5MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132473	132216 to 132617	Middle	20MHz+10MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132423	132243 to 132594	Middle	20MHz+15MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		132072 to 132374	132270 to 132572	Middle	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset

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



Test Report No.: W7L-220214W001RF03

**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	EUT 4.0V	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	EUT 4.0V	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	EUT 4.0V	James Fu
BAND EDGE	23deg. C, 70%RH	EUT 4.0V	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	EUT 4.0V	James Fu
RADIATED EMISSION	23deg. C, 70%RH	EUT 4.0V	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	EUT 4.0V	James Fu



Test Report No.: W7L-220214W001RF03

## 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(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

##### 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 determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

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;

$G_{\text{T}}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_{\text{C}}$  = 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.

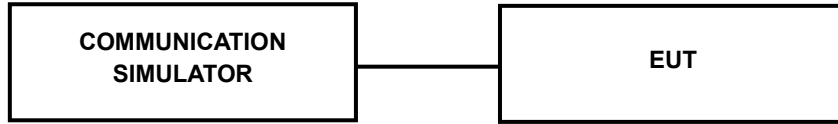




Test Report No.: W7L-220214W001RF03

### 3.1.3 TEST SETUP

#### CONDUCTED POWER MEASUREMENT:



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



Test Report No.: W7L-220214W001RF03

### 3.1.4 TEST RESULTS

#### AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA IV		
	1312	1413	1513
Channel	1712.4	1732.6	1752.6
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.77	23.74	23.65
HSDPA Subtest-1	21.46	21.38	21.30
HSDPA Subtest-2	21.39	21.35	21.28
HSDPA Subtest-3	20.99	20.95	20.88
HSDPA Subtest-4	20.90	20.86	20.86
DC-HSDPA Subtest-1	21.43	21.37	21.30
DC-HSDPA Subtest-2	21.32	21.28	21.29
DC-HSDPA Subtest-3	20.97	20.89	20.86
DC-HSDPA Subtest-4	20.92	20.89	20.80
HSUPA Subtest-1	21.41	21.35	21.34
HSUPA Subtest-2	19.50	19.49	19.44
HSUPA Subtest-3	20.61	20.50	20.53
HSUPA Subtest-4	19.43	19.42	19.37
HSUPA Subtest-5	21.37	21.29	21.29



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**Test Report No.: W7L-220214W001RF03**

**LTE Band 4**

Band/BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393	MPR
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	
4/ 1.4	QPSK	1	0	23.14	23.14	22.97	0
		1	2	23.34	23.28	23.16	0
		1	5	23.27	22.94	22.87	0
		3	0	23.31	23.27	23.17	0
		3	1	23.33	23.34	23.20	0
		3	3	23.35	23.26	23.16	0
		6	0	22.39	22.30	22.16	1
	16QAM	1	0	22.55	22.45	22.37	1
		1	2	22.73	22.64	22.56	1
		1	5	22.66	22.35	22.36	1
		3	0	22.37	22.31	22.17	1
		3	1	22.41	22.39	22.26	1
		3	3	22.42	22.32	22.20	1
		6	0	21.32	21.29	21.12	2
	64QAM	1	0	21.49	21.36	21.28	2
		1	2	21.63	21.57	21.47	2
		1	5	21.46	21.29	21.16	2
		3	0	21.36	21.27	21.14	2
		3	1	21.49	21.44	21.24	2
		3	3	21.46	21.27	21.28	2
		6	0	20.42	20.25	20.19	3



**Test Report No.: W7L-220214W001RF03**

Band/BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	MPR
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
4/3	QPSK	1	0	23.16	23.11	22.97	0
		1	7	23.30	23.29	23.16	0
		1	14	23.21	22.99	22.86	0
		8	0	22.29	22.34	22.17	1
		8	3	22.34	22.31	22.20	1
		8	7	22.35	22.33	22.20	1
		15	0	22.35	22.31	22.14	1
	16QAM	1	0	22.58	22.44	22.41	1
		1	7	22.67	22.68	22.53	1
		1	14	22.68	22.37	22.35	1
		8	0	21.39	21.29	21.17	2
		8	3	21.43	21.32	21.29	2
		8	7	21.45	21.35	21.13	2
		15	0	21.33	21.23	21.11	2
	64QAM	1	0	21.55	21.35	21.28	2
		1	7	21.66	21.57	21.45	2
		1	14	21.46	21.29	21.17	2
		8	0	20.36	20.29	20.17	3
		8	3	20.53	20.38	20.29	3
		8	7	20.43	20.31	20.24	3
		15	0	20.44	20.22	20.23	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	MPR
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
4/ 5	QPSK	1	0	23.17	23.10	23.01	0
		1	12	23.33	23.29	23.13	0
		1	24	23.21	23.00	22.87	0
		12	0	22.33	22.30	22.18	1
		12	6	22.32	22.34	22.23	1
		12	13	22.36	22.29	22.20	1
		25	0	22.32	22.34	22.13	1
	16QAM	1	0	22.58	22.44	22.40	1
		1	12	22.67	22.66	22.50	1
		1	24	22.65	22.41	22.31	1
		12	0	21.34	21.31	21.20	2
		12	6	21.43	21.33	21.26	2
		12	13	21.39	21.32	21.19	2
		25	0	21.30	21.29	21.11	2
	64QAM	1	0	21.48	21.40	21.28	2
		1	12	21.67	21.54	21.44	2
		1	24	21.40	21.36	21.16	2
		12	0	20.40	20.28	20.14	3
		12	6	20.49	20.44	20.27	3
		12	13	20.47	20.30	20.21	3
		25	0	20.40	20.28	20.21	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
4/ 10	QPSK	1	0	23.14	23.14	22.97	0
		1	24	23.34	23.28	23.16	0
		1	49	23.27	22.94	22.87	0
		25	0	22.31	22.27	22.17	1
		25	12	22.37	22.34	22.20	1
		25	25	22.36	22.26	22.16	1
		50	0	22.37	22.30	22.16	1
	16QAM	1	0	22.58	22.45	22.37	1
		1	24	22.69	22.64	22.56	1
		1	49	22.69	22.35	22.36	1
		25	0	21.33	21.32	21.17	2
		25	12	21.47	21.32	21.30	2
		25	25	21.38	21.33	21.16	2
		50	0	21.35	21.25	21.15	2
	64QAM	1	0	21.54	21.34	21.25	2
		1	24	21.65	21.51	21.50	2
		1	49	21.47	21.35	21.10	2
		25	0	20.39	20.25	20.16	3
		25	12	20.54	20.40	20.28	3
		25	25	20.46	20.27	20.23	3
		50	0	20.45	20.24	20.22	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
4/ 15	QPSK	1	0	23.18	23.15	22.96	0
		1	37	23.35	23.33	23.14	0
		1	74	23.23	22.96	22.91	0
		36	0	22.36	22.33	22.14	1
		36	19	22.30	22.29	22.26	1
		36	39	22.42	22.30	22.19	1
		75	0	22.37	22.35	22.12	1
	16QAM	1	0	22.56	22.47	22.40	1
		1	37	22.69	22.70	22.55	1
		1	74	22.69	22.35	22.36	1
		36	0	21.33	21.32	21.17	2
		36	19	21.46	21.34	21.29	2
		36	39	21.45	21.32	21.13	2
		75	0	21.32	21.28	21.13	2
	64QAM	1	0	21.54	21.34	21.25	2
		1	37	21.65	21.51	21.50	2
		1	74	21.47	21.35	21.10	2
		36	0	20.37	20.25	20.16	3
		36	19	20.53	20.45	20.26	3
		36	39	20.49	20.27	20.28	3
		75	0	20.44	20.22	20.23	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
4/ 20	QPSK	1	0	22.92	23.18	23.02	0
		1	50	23.11	<b>23.37</b>	23.18	0
		1	99	22.80	23.01	22.92	0
		50	0	22.13	22.35	22.19	1
		50	25	22.28	22.36	22.28	1
		50	50	22.16	22.34	22.22	1
		100	0	22.21	22.36	22.18	1
	16QAM	1	0	22.29	22.52	22.42	1
		1	50	22.40	22.72	22.58	1
		1	99	22.17	22.43	22.37	1
		50	0	21.15	21.36	21.22	2
		50	25	21.28	21.40	21.31	2
		50	50	21.19	21.37	21.21	2
		100	0	21.18	21.31	21.17	2
	64QAM	1	0	21.15	21.41	21.30	2
		1	50	21.41	21.59	21.52	2
		1	99	21.09	21.37	21.18	2
		50	0	20.17	20.33	20.22	3
		50	25	20.31	20.46	20.30	3
		50	50	20.20	20.35	20.29	3
		100	0	20.22	20.30	20.24	3



**LTE Band 7**

Band/BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	MPR
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz	
7/5	QPSK	1	0	23.37	23.17	23.06	0
		1	12	23.37	23.22	23.15	0
		1	24	23.38	23.16	23.19	0
		12	0	22.34	22.15	22.09	1
		12	6	22.35	22.17	22.21	1
		12	13	22.35	22.17	22.16	1
		25	0	22.29	22.09	22.09	1
	16QAM	1	0	22.69	22.47	22.47	1
		1	12	22.70	22.60	22.50	1
		1	24	22.71	22.52	22.54	1
		12	0	21.36	21.12	21.11	2
		12	6	21.38	21.20	21.24	2
		12	13	21.33	21.20	21.05	2
		25	0	21.25	21.11	21.07	2
	64QAM	1	0	21.68	21.44	21.40	2
		1	12	21.68	21.52	21.48	2
		1	24	21.57	21.36	21.34	2
		12	0	20.37	20.22	20.10	3
		12	6	20.36	20.24	20.20	3
		12	13	20.42	20.24	20.13	3
		25	0	20.32	20.12	20.13	3



**Test Report No.: W7L-220214W001RF03**

Band/BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21400	MPR
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz	
7/ 10	QPSK	1	0	23.35	23.14	23.09	0
		1	24	23.43	23.15	23.19	0
		1	49	23.34	23.17	23.15	0
		25	0	22.38	22.09	22.13	1
		25	12	22.34	22.18	22.18	1
		25	25	22.40	22.13	22.19	1
		50	0	22.29	22.10	22.06	1
	16QAM	1	0	22.71	22.45	22.53	1
		1	24	22.75	22.60	22.48	1
		1	49	22.73	22.49	22.50	1
		25	0	21.41	21.13	21.14	2
		25	12	21.43	21.17	21.25	2
		25	25	21.33	21.18	21.06	2
		50	0	21.31	21.04	21.08	2
	64QAM	1	0	21.64	21.45	21.43	2
		1	24	21.73	21.47	21.48	2
		1	49	21.59	21.34	21.37	2
		25	0	20.37	20.16	20.11	3
		25	12	20.43	20.23	20.14	3
		25	25	20.41	20.21	20.15	3
		50	0	20.37	20.08	20.14	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20825	Mid CH 21100	High CH 21375	MPR
				Frequency 2507.5 MHz	Frequency 2535 MHz	Frequency 2562.5 MHz	
7/ 15	QPSK	1	0	23.40	23.20	23.03	0
		1	37	23.38	23.15	23.14	0
		1	74	23.39	23.15	23.18	0
		36	0	22.38	22.10	22.09	1
		36	19	22.36	22.14	22.21	1
		36	39	22.41	22.11	22.20	1
		75	0	22.23	22.13	22.06	1
	16QAM	1	0	22.75	22.45	22.54	1
		1	37	22.68	22.58	22.51	1
		1	74	22.75	22.51	22.54	1
		36	0	21.40	21.12	21.11	2
		36	19	21.39	21.17	21.24	2
		36	39	21.40	21.20	21.03	2
		75	0	21.28	21.04	21.03	2
	64QAM	1	0	21.71	21.43	21.46	2
		1	37	21.74	21.46	21.45	2
		1	74	21.55	21.33	21.40	2
		36	0	20.42	20.22	20.05	3
		36	19	20.37	20.17	20.16	3
		36	39	20.44	20.28	20.17	3
		75	0	20.36	20.06	20.15	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 20850	Mid CH 21100	High CH 21350	MPR
				Frequency 2510 MHz	Frequency 2535 MHz	Frequency 2560 MHz	
7/20	QPSK	1	0	23.41	23.22	23.11	0
		1	50	<b>23.45</b>	23.23	23.20	0
		1	99	23.42	23.21	23.20	0
		50	0	22.40	22.17	22.14	1
		50	25	22.42	22.22	22.23	1
		50	50	22.43	22.19	22.21	1
		100	0	22.31	22.17	22.11	1
	16QAM	1	0	22.77	22.53	22.55	1
		1	50	22.76	22.62	22.56	1
		1	99	22.78	22.57	22.56	1
		50	0	21.42	21.19	21.16	2
		50	25	21.45	21.25	21.26	2
		50	50	21.41	21.22	21.11	2
		100	0	21.33	21.12	21.09	2
	64QAM	1	0	21.72	21.49	21.48	2
		1	50	21.76	21.53	21.50	2
		1	99	21.61	21.41	21.42	2
		50	0	20.43	20.24	20.13	3
		50	25	20.44	20.25	20.22	3
		50	50	20.46	20.29	20.21	3
		100	0	20.38	20.14	20.16	3



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**Test Report No.: W7L-220214W001RF03**

**LTE Band 12**

Band/BW	Modulation	RB Size	RB Offset	Low CH 23017	Mid CH 23095	High CH 23173	MPR
				Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	
12/ 1.4	QPSK	1	0	23.02	23.09	23.22	0
		1	2	23.25	23.21	23.43	0
		1	5	23.32	23.29	23.50	0
		3	0	23.10	23.12	23.30	0
		3	1	23.29	23.40	23.42	0
		3	3	23.25	23.26	23.44	0
		6	0	22.26	22.30	22.43	1
	16QAM	1	0	22.41	22.46	22.63	1
		1	2	22.55	22.60	22.75	1
		1	5	22.65	22.61	22.86	1
		3	0	22.11	22.17	22.27	1
		3	1	22.28	22.44	22.48	1
		3	3	22.24	22.30	22.49	1
		6	0	21.18	21.26	21.37	2
	64QAM	1	0	21.24	21.33	21.51	2
		1	2	21.36	21.53	21.58	2
		1	5	21.50	21.56	21.73	2
		3	0	21.14	21.20	21.27	2
		3	1	21.29	21.45	21.52	2
		3	3	21.30	21.31	21.47	2
		6	0	20.23	20.31	20.42	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 23025	Mid CH 23095	High CH 23165	MPR
				Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	
12/ 3	QPSK	1	0	23.04	23.11	23.21	0
		1	7	23.21	23.22	23.43	0
		1	14	23.28	23.29	23.50	0
		8	0	22.09	22.15	22.30	1
		8	3	22.22	22.40	22.44	1
		8	7	22.22	22.33	22.48	1
		15	0	22.23	22.31	22.37	1
	16QAM	1	0	22.38	22.52	22.66	1
		1	7	22.52	22.63	22.73	1
		1	14	22.68	22.61	22.86	1
		8	0	21.07	21.18	21.27	2
		8	3	21.33	21.39	21.51	2
		8	7	21.26	21.28	21.45	2
		15	0	21.18	21.20	21.40	2
	64QAM	1	0	21.30	21.36	21.45	2
		1	7	21.39	21.47	21.57	2
		1	14	21.51	21.58	21.73	2
		8	0	20.17	20.24	20.28	3
		8	3	20.33	20.39	20.57	3
		8	7	20.27	20.35	20.43	3
		15	0	20.25	20.28	20.46	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 23035	Mid CH 23095	High CH 23155	MPR
				Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	
12/ 5	QPSK	1	0	23.05	23.06	23.22	0
		1	12	23.26	23.19	23.43	0
		1	24	23.29	23.28	23.54	0
		12	0	22.12	22.15	22.27	1
		12	6	22.22	22.41	22.45	1
		12	13	22.26	22.29	22.49	1
		25	0	22.21	22.34	22.40	1
	16QAM	1	0	22.39	22.48	22.66	1
		1	12	22.49	22.66	22.72	1
		1	24	22.68	22.61	22.85	1
		12	0	21.07	21.16	21.24	2
		12	6	21.30	21.43	21.47	2
		12	13	21.21	21.30	21.48	2
		25	0	21.18	21.21	21.37	2
	64QAM	1	0	21.24	21.33	21.51	2
		1	12	21.36	21.53	21.57	2
		1	24	21.44	21.63	21.73	2
		12	0	20.18	20.21	20.27	3
		12	6	20.27	20.46	20.56	3
		12	13	20.31	20.34	20.40	3
		25	0	20.21	20.34	20.44	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 23060	Mid CH 23095	High CH 23130	MPR
				Frequency 704 MHz	Frequency 707.5 MHz	Frequency 711 MHz	
12/ 10	QPSK	1	0	23.10	23.13	23.27	0
		1	24	23.28	23.27	23.45	0
		1	49	23.34	23.36	<b>23.55</b>	0
		25	0	22.16	22.20	22.32	1
		25	12	22.30	22.42	22.50	1
		25	25	22.30	22.34	22.50	1
		50	0	22.27	22.36	22.45	1
	16QAM	1	0	22.46	22.53	22.68	1
		1	24	22.57	22.68	22.77	1
		1	49	22.70	22.69	22.87	1
		25	0	21.15	21.22	21.32	2
		25	12	21.36	21.45	21.53	2
		25	25	21.28	21.35	21.50	2
		50	0	21.24	21.28	21.42	2
	64QAM	1	0	21.31	21.38	21.53	2
		1	24	21.44	21.55	21.63	2
		1	49	21.52	21.64	21.75	2
		25	0	20.22	20.26	20.35	3
		25	12	20.35	20.47	20.58	3
		25	25	20.35	20.39	20.48	3
		50	0	20.27	20.36	20.47	3





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**Test Report No.: W7L-220214W001RF03**

**LTE Band 13**

Band/BW	Modulation	RB Size	RB Offset	Low CH 23205	Mid CH 23230	High CH 23255	MPR
				Frequency 779.5 MHz	Frequency 782.0 MHz	Frequency 784.5 MHz	
13/ 5	QPSK	1	0	23.55	23.59	23.58	0
		1	12	23.52	23.46	23.53	0
		1	24	23.50	23.54	23.53	0
		12	0	22.64	22.61	22.65	1
		12	6	22.62	22.57	22.59	1
		12	13	22.53	22.51	22.57	1
		25	0	22.59	22.58	22.52	1
	16QAM	1	0	22.87	22.86	22.88	1
		1	12	22.88	22.85	22.89	1
		1	24	22.83	22.78	22.80	1
		12	0	21.62	21.60	21.66	2
		12	6	21.62	21.56	21.63	2
		12	13	21.52	21.56	21.55	2
		25	0	21.54	21.48	21.55	2
	64QAM	1	0	21.78	21.82	21.81	2
		1	12	21.78	21.75	21.79	2
		1	24	21.67	21.62	21.64	2
		12	0	20.65	20.63	20.69	3
		12	6	20.66	20.65	20.59	3
		12	13	20.54	20.51	20.53	3
		25	0	20.62	20.57	20.61	3



Test Report No.: W7L-220214W001RF03

Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 23230	/	MPR
				/	Frequency 782.0 MHz	/	
13/ 10	QPSK	1	0	/	<b>23.63</b>	/	0
		1	24	/	23.54	/	0
		1	49	/	23.58	/	0
		25	0	/	22.67	/	1
		25	12	/	22.64	/	1
		25	25	/	22.59	/	1
		50	0	/	22.60	/	1
	16QAM	1	0	/	22.94	/	1
		1	24	/	22.91	/	1
		1	49	/	22.85	/	1
		25	0	/	21.68	/	2
		25	12	/	21.64	/	2
		25	25	/	21.60	/	2
		50	0	/	21.56	/	2
	64QAM	1	0	/	21.86	/	2
		1	24	/	21.81	/	2
		1	49	/	21.69	/	2
		25	0	/	20.71	/	3
		25	12	/	20.67	/	3
		25	25	/	20.59	/	3
		50	0	/	20.63	/	3

**LTE Band 66**

Band/BW	Modulation	RB Size	RB Offset	Low CH 131979	Mid CH 132322	High CH 132665	MPR
				Frequency 1710.7MHz	Frequency 1745MHz	Frequency 1779.3MHz	
66/ 1.4	QPSK	1	0	23.24	23.09	23.16	0
		1	2	23.32	22.86	23.05	0
		1	5	23.25	22.69	22.85	0
		3	0	23.31	22.96	23.17	0
		3	1	23.41	23.14	23.16	0
		3	3	23.28	22.89	23.02	0
		6	0	22.41	22.00	22.13	1
	16QAM	1	0	22.43	22.40	22.53	1
		1	2	22.60	22.20	22.39	1
		1	5	22.44	22.02	22.28	1
		3	0	22.37	22.02	22.13	1
		3	1	22.45	22.08	22.20	1
		3	3	22.42	21.90	22.08	1
		6	0	21.37	20.99	21.14	2
	64QAM	1	0	21.70	21.31	21.40	2
		1	2	21.50	21.13	21.24	2
		1	5	21.52	21.01	21.23	2
		3	0	21.39	21.04	21.09	2
		3	1	21.53	21.11	21.26	2
		3	3	21.33	20.94	21.12	2
		6	0	20.43	19.96	20.15	3



Test Report No.: W7L-220214W001RF03

Band/BW	Modulation	RB Size	RB Offset	Low CH 131987	Mid CH 132322	High CH 132657	MPR
				Frequency 1711.5MHz	Frequency 1745MHz	Frequency 1778.5MHz	
66/ 3	QPSK	1	0	23.26	23.08	23.20	0
		1	7	23.34	22.90	23.02	0
		1	14	23.19	22.69	22.88	0
		8	0	22.36	22.00	22.16	1
		8	3	22.39	22.15	22.18	1
		8	7	22.29	21.92	22.06	1
		15	0	22.36	22.04	22.12	1
	16QAM	1	0	22.46	22.39	22.57	1
		1	7	22.54	22.24	22.36	1
		1	14	22.46	22.04	22.27	1
		8	0	21.40	21.02	21.10	2
		8	3	21.47	21.06	21.21	2
		8	7	21.44	20.88	21.04	2
		15	0	21.37	20.93	21.17	2
	64QAM	1	0	21.76	21.34	21.34	2
		1	7	21.51	21.07	21.23	2
		1	14	21.52	21.08	21.21	2
		8	0	20.45	20.02	20.16	3
		8	3	20.57	20.05	20.31	3
		8	7	20.36	20.01	20.09	3
		15	0	20.44	20.00	20.14	3



**Test Report No.: W7L-220214W001RF03**

Band/BW	Modulation	RB Size	RB Offset	Low CH 131997	Mid CH 132322	High CH 132647	MPR
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz	
66/ 5	QPSK	1	0	23.27	23.06	23.16	0
		1	12	23.33	22.84	23.05	0
		1	24	23.22	22.68	22.89	0
		12	0	22.33	21.99	22.14	1
		12	6	22.34	22.15	22.19	1
		12	13	22.29	21.92	22.07	1
		25	0	22.36	22.04	22.10	1
	16QAM	1	0	22.41	22.42	22.56	1
		1	12	22.54	22.26	22.36	1
		1	24	22.47	22.02	22.27	1
		12	0	21.33	21.01	21.10	2
		12	6	21.47	21.07	21.19	2
		12	13	21.39	20.90	21.07	2
		25	0	21.37	20.94	21.14	2
	64QAM	1	0	21.70	21.31	21.40	2
		1	12	21.50	21.13	21.23	2
		1	24	21.46	21.08	21.23	2
		12	0	20.43	20.05	20.09	3
		12	6	20.51	20.12	20.30	3
		12	13	20.34	19.97	20.05	3
		25	0	20.41	19.99	20.17	3



**Test Report No.: W7L-220214W001RF03**

Band/BW	Modulation	RB Size	RB Offset	Low CH 132022	Mid CH 132322	High CH 132622	MPR
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz	
66/ 10	QPSK	1	0	23.24	23.09	23.16	0
		1	24	23.33	22.84	23.06	0
		1	49	23.19	22.72	22.85	0
		25	0	22.34	21.98	22.17	1
		25	12	22.40	22.09	22.19	1
		25	25	22.27	21.89	22.06	1
		50	0	22.41	22.04	22.07	1
	16QAM	1	0	22.41	22.39	22.52	1
		1	24	22.59	22.22	22.39	1
		1	49	22.47	22.03	22.24	1
		25	0	21.35	20.99	21.16	2
		25	12	21.51	21.01	21.24	2
		25	25	21.38	20.91	21.04	2
		50	0	21.41	20.93	21.18	2
	64QAM	1	0	21.69	21.32	21.37	2
		1	24	21.55	21.09	21.27	2
		1	49	21.52	21.02	21.20	2
		25	0	20.41	20.02	20.15	3
		25	12	20.58	20.11	20.24	3
		25	25	20.33	19.94	20.07	3
		50	0	20.46	19.95	20.18	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572	MPR
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz	
66/ 15	QPSK	1	0	23.26	23.11	23.15	0
		1	37	23.28	22.87	23.05	0
		1	74	23.21	22.69	22.85	0
		36	0	22.30	21.99	22.17	1
		36	19	22.34	22.14	22.18	1
		36	39	22.25	21.96	22.06	1
		75	0	22.38	22.01	22.07	1
	16QAM	1	0	22.40	22.46	22.56	1
		1	37	22.57	22.23	22.37	1
		1	74	22.47	22.02	22.28	1
		36	0	21.33	21.03	21.13	2
		36	19	21.50	21.03	21.23	2
		36	39	21.44	20.88	21.04	2
		75	0	21.37	20.93	21.17	2
	64QAM	1	0	21.76	21.34	21.34	2
		1	37	21.53	21.07	21.23	2
		1	74	21.53	21.03	21.23	2
		36	0	20.42	20.08	20.10	3
		36	19	20.57	20.05	20.31	3
		36	39	20.30	19.98	20.08	3
		75	0	20.45	19.93	20.19	3



Test Report No.: W7L-220214W001RF03

Band/BW	Modulation	RB Size	RB Offset	Low CH 132072	Mid CH 132322	High CH 132572	MPR
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz	
66/ 20	QPSK	1	0	22.96	23.13	<b>23.21</b>	0
		1	50	23.14	22.92	23.07	0
		1	99	22.84	22.76	22.90	0
		50	0	22.19	22.04	22.19	1
		50	25	22.31	22.16	22.24	1
		50	50	22.15	21.97	22.08	1
		100	0	22.20	22.06	22.15	1
	16QAM	1	0	22.27	22.47	22.58	1
		1	50	22.47	22.28	22.41	1
		1	99	22.12	22.10	22.29	1
		50	0	21.20	21.07	21.18	2
		50	25	21.31	21.09	21.25	2
		50	50	21.18	20.95	21.09	2
		100	0	21.21	21.01	21.19	2
	64QAM	1	0	21.16	21.36	21.42	2
		1	50	21.43	21.15	21.29	2
		1	99	21.15	21.09	21.25	2
		50	0	20.22	20.10	20.17	3
		50	25	20.33	20.13	20.32	3
		50	50	20.18	20.02	20.13	3
		100	0	20.26	20.01	20.20	3





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**Test Report No.: W7L-220214W001RF03**

**LTE Band 71**

Band/BW	Modulation	RB Size	RB Offset	Low CH 133147	Mid CH 133247	High CH 133447	MPR
				Frequency 665.5MHz	Frequency 675.5MHz	Frequency 695.5MHz	
71/ 5	QPSK	1	0	22.98	22.81	22.96	0
		1	12	23.09	22.86	22.98	0
		1	24	22.92	22.74	22.95	0
		12	0	22.03	21.83	21.93	1
		12	6	22.14	22.07	22.07	1
		12	13	22.14	21.96	22.12	1
		25	0	22.03	21.95	22.00	1
	16QAM	1	0	22.42	22.22	22.41	1
		1	12	22.39	22.33	22.38	1
		1	24	22.55	22.30	22.49	1
		12	0	20.93	20.75	20.79	2
		12	6	21.09	21.00	21.04	2
		12	13	21.14	20.95	21.09	2
		25	0	21.14	20.95	21.12	2
	64QAM	1	0	21.30	21.15	21.21	2
		1	12	21.28	21.17	21.24	2
		1	24	21.25	21.17	21.22	2
		12	0	20.05	19.82	19.95	3
		12	6	20.05	19.95	20.05	3
		12	13	20.07	19.92	19.93	3
		25	0	19.96	19.87	19.94	3

Band/BW	Modulation	RB Size	RB Offset	Low CH 133172	Mid CH 133272	High CH 133172	MPR
				Frequency 668MHz	Frequency 678MHz	Frequency 693MHz	
71/ 10	QPSK	1	0	22.95	22.84	22.96	0
		1	24	23.09	22.86	22.99	0
		1	49	22.89	22.78	22.91	0
		25	0	22.04	21.82	21.96	1
		25	12	22.20	22.01	22.07	1
		25	25	22.12	21.93	22.11	1
		50	0	22.08	21.95	21.97	1
	16QAM	1	0	22.42	22.19	22.37	1
		1	24	22.44	22.29	22.41	1
		1	49	22.55	22.31	22.46	1
		25	0	20.95	20.73	20.85	2
		25	12	21.13	20.94	21.09	2
		25	25	21.13	20.96	21.06	2
		50	0	21.18	20.94	21.16	2
	64QAM	1	0	21.29	21.16	21.18	2
		1	24	21.33	21.13	21.28	2
		1	49	21.31	21.11	21.19	2
		25	0	20.03	19.79	20.01	3
		25	12	20.12	19.94	19.99	3
		25	25	20.06	19.89	19.95	3
		50	0	20.01	19.83	19.95	3



**Test Report No.: W7L-220214W001RF03**

Band/BW	Modulation	RB Size	RB Offset	Low CH 133197	Mid CH 133297	High CH 133397	MPR
				Frequency 670.5MHz	Frequency 680.5MHz	Frequency 690.5MHz	
71/ 15	QPSK	1	0	22.97	22.83	23.00	0
		1	37	23.10	22.92	22.95	0
		1	74	22.89	22.75	22.94	0
		36	0	22.06	21.84	21.95	1
		36	19	22.19	22.07	22.06	1
		36	39	22.14	21.96	22.11	1
		75	0	22.03	21.95	22.02	1
	16QAM	1	0	22.47	22.19	22.42	1
		1	37	22.39	22.31	22.38	1
		1	74	22.54	22.32	22.49	1
		36	0	21.00	20.76	20.79	2
		36	19	21.09	20.99	21.06	2
		36	39	21.19	20.93	21.06	2
		75	0	21.14	20.94	21.15	2
	64QAM	1	0	21.36	21.18	21.15	2
		1	37	21.29	21.11	21.24	2
		1	74	21.31	21.17	21.20	2
		36	0	20.07	19.79	20.02	3
		36	19	20.06	19.88	20.01	3
		36	39	20.08	19.96	19.95	3
		75	0	19.96	19.86	19.93	3



Test Report No.: W7L-220214W001RF03

Band/BW	Modulation	RB Size	RB Offset	Low CH 133222	Mid CH 133322	High CH 133372	MPR
				Frequency 673MHz	Frequency 683MHz	Frequency 688MHz	
71/ 20	QPSK	1	0	23.03	22.88	23.01	0
		1	50	<b>23.11</b>	22.94	23.00	0
		1	99	22.97	22.82	22.96	0
		50	0	22.07	21.88	21.98	1
		50	25	22.22	22.08	22.12	1
		50	50	22.18	22.01	22.13	1
		100	0	22.09	21.97	22.05	1
	16QAM	1	0	22.49	22.27	22.43	1
		1	50	22.47	22.35	22.43	1
		1	99	22.57	22.38	22.51	1
		50	0	21.01	20.81	20.87	2
		50	25	21.15	21.02	21.10	2
		50	50	21.21	21.00	21.11	2
		100	0	21.20	21.02	21.17	2
	64QAM	1	0	21.37	21.20	21.23	2
		1	50	21.36	21.19	21.30	2
		1	99	21.33	21.18	21.24	2
		50	0	20.09	19.87	20.03	3
		50	25	20.13	19.96	20.07	3
		50	50	20.11	19.97	20.01	3
		100	0	20.02	19.89	19.97	3