

# **FCC Test Report**

**Report No.:** 2405T48460EC

Applicant: Shenzhen Omni Intelligent Technology Co., Ltd.

Address: 11th Floor, Building 31, Phase III, Lianchuang Technology Park,

Nanwan street, Longgang District, Shenzhen, China

**Product Name:** Sharing Scooter IOT

Product Model: M151-IOT

Multiple Models: N/A

Trade Mark: N/A

FCC ID: 2AI2O-M151IOT

Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27

**Test Date:** 2024-06-10 to 2024-06-25

Test Result: Complied

**Issue Date: 2024-06-26** 

Reviewed by:

Approved by:

Frank Yin

Frank Tin

**Project Engineer** 

Jacob Kong

Jacob Gong

Manager

### Prepared by:

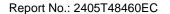
World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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# **Revision History**

Version No.	Issued Date	Description
00	2024-06-26	Original

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## 1 General Information

## 1.1 Client Information

Applicant:	Shenzhen Omni Intelligent Technology Co., Ltd.
Address:	11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Omni Intelligent Technology Co., Ltd.
Address:	11th Floor, Building 31, Phase III, Lianchuang Technology Park, Nanwan street, Longgang District, Shenzhen, China

# 1.2 Product Description of EUT

The EUT is an Sharing Scooter IOT that contains BLE and LTE radios, this report covers the full testing of the LTE radio.

Sample Serial number	2MC4-2 for RE	test, 2MC4-3 for	RF test conducted	l test (assigned b	y WATC)					
Sample Received Date	2024-06-03	2024-06-03								
Sample Status	Good Condition	Good Condition								
Frequency Range  Maximum Conducted	Band	TX Frequency (MHz)	RX Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain <sup>#</sup> (dBi)					
Power	LTE B2	1850-1910	1930-1990	20.98	-1.15					
Antenna Gain	LTE B4	1710-1755	2110-2155	20.99	-0.73					
	LTE B5	824-849	869-894	20.94	-0.77					
	LTE B12	699-716	729-746	21.00	-0.83					
	LTE B13	777-787	746-756	21.05	-0.89					
Modulation Technology	QPSK, 16QAM									
Power Supply	Power by DC 3	3.7V built-in battery	y or DC 24V-72V							
UE category	LTE Cat-M1	LTE Cat-M1								
Adapter Information	N/A	N/A								
Modification	Sample No Mo	dification by the te	est lab							

## 1.3 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2AI2O-M151IOT

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1.4 Measurement Uncertainty

Parar	neter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
	Below 30MHz	±2.78dB
Emissions, Radiated	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%

**Note 1:** The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

**Note 2:** The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

## 1.5 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

## 1.6 Test Methodology

FCC CFR Title 47 Part 2, 22H, 24E, 27

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 971168 D02 Misc Rev Approv License Devices v02r02

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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# 2 Description of Measurement

2.1 Test Frequency of Low/Middle/High Channels

2.1 lest Fro	equency of Lo	w/Middle/High		l
Band	Bandwidth (MHz)	Low Channel (MHz)	Middle Channel (MHz)	High Channel (MHz)
	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
LTE B2	5	1852.5	1880	1907.5
LIL DZ	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
LTE B4	5	1712.5	1732.5	1752.5
LIE D4	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
	1.4	824.7	836.5	848.3
LTE B5	3	825.5	836.5	847.5
LIE DO	5	826.5	836.5	846.5
	10	829	836.5	844
	1.4	699.7	707.5	715.3
LTE D40	3	700.5	707.5	714.5
LTE B12	5	701.5	707.5	713.5
	10	704	707.5	711
LTE D40	5	779.5	782	784.5
LTE B13	10	/	782	1

2.2 Test Configuration for LTE bands

Test Items	Band Bandwidth (MHz)					Modulation		RB#			Test Channel				
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
	2	$\checkmark$		V	√	√	$\sqrt{}$	$\checkmark$	$\sqrt{}$	$\checkmark$	√	$\sqrt{}$	$\checkmark$	$\sqrt{}$	
RF Output	4	$\checkmark$	√	V	√	√	V	$\checkmark$	<b>√</b>	$\sqrt{}$	√	$\sqrt{}$		$\checkmark$	$\checkmark$
Power	5	$\checkmark$	√	V	V	-	-	$\sqrt{}$	<b>√</b>	$\sqrt{}$	√	$\sqrt{}$			$\checkmark$
ERP/EIRP	12	$\checkmark$	<b>√</b>	V	√	-	-	$\checkmark$	<b>√</b>	$\checkmark$	$\sqrt{}$	$\sqrt{}$	√	$\sqrt{}$	
	13	-	-	V	<b>V</b>	-	-	√	<b>√</b>	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√	$\sqrt{}$	$\checkmark$
Peak-to-Aver	2				<b>V</b>					$\sqrt{}$		$\sqrt{}$	√	$\sqrt{}$	$\sqrt{}$
age Ratio	4				$\sqrt{}$					$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$

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	T	1						1	1						
	5				V	-	-	√	√	$\sqrt{}$		√	√		
	12				√	-	-	√	V			$\sqrt{}$			
	13	-	-		V	-	-					√	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
	2		$\sqrt{}$	V	V	√	V								
26dB and	4	$\checkmark$	$\sqrt{}$	<b>√</b>		√	$\sqrt{}$		$\sqrt{}$			√		$\checkmark$	
99%	5	$\checkmark$	$\sqrt{}$	<b>√</b>		-	-	$\sqrt{}$	$\sqrt{}$					$\checkmark$	
Bandwidth	12	√	$\sqrt{}$	<b>√</b>		-	•								
	13	-			√	-	-					$\checkmark$			
	2	√	V	<b>√</b>	√	√	<b>V</b>		V						
	4	√	V	<b>√</b>	√	√	<b>V</b>		V						
Band Edge	5	√	V	V	V	-	-		V						
	12	√	<b>√</b>	√	√	-	-		V						
	13	-		<b>√</b>	√	-	-		V						
	2	√	V	V	V	√	V								
Conducted	4	√	V	<b>√</b>	√	√	<b>V</b>								
Spurious	5	$\checkmark$	$\checkmark$		√	-	-								
Emission	12	√	V	V	V	-	-	<b>V</b>							
	13	-		<b>√</b>	√	-	-								
	2	√							V						1
Г	4	√							V						
Frequency Stability	5				√	-	-					$\checkmark$			
Stability	12	√				-	-		V						
	13	-	-	√		-	-	$\sqrt{}$	V						
Radiated Spurious Emission	2	$\sqrt{}$						$\sqrt{}$							
	4	$\sqrt{}$													
	5	√				-	-	<b>√</b>							
	12	<b>V</b>				-	-	<b>√</b>							
	13	-	-	√		-	-								
Mata.					·				l		1				

#### Note:

- 1. " $\sqrt{}$ " means the configuration was chosen for testing
- 2. "-" means the not support the bandwidth

### **Worst-Case Configuration:**

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report

For radiated emissions, measurement was investigated from 30MHz to 10 times of fundamental, the worst case bandwidth, RB size and modulation test data was recorded.

## 2.3 Test Auxiliary Equipment

Manufacturer	Manufacturer Description		Serial Number
unknown	DC Power Supply	unknown	unknown
ROHDE& SCHWARZ	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	116218
unknown	Antenna	unknown	unknown

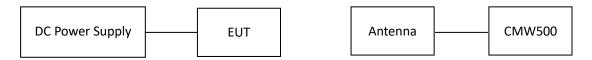
# 2.4 Interconnecting Cables

Manufacturer	Description	Length	From	То	
unknown	DC Cable	1.8m	DC Power Supply	EUT	
unknown	RF Cable	3.0m	CMW500	Antenna	

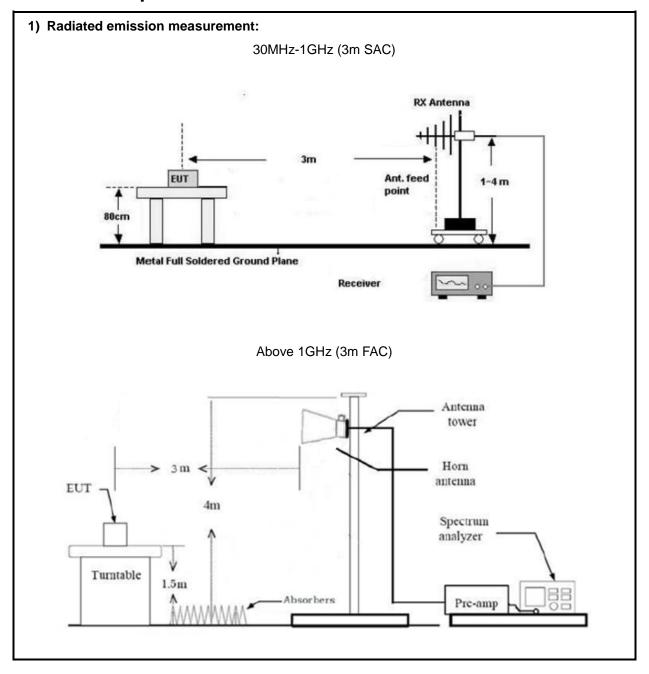
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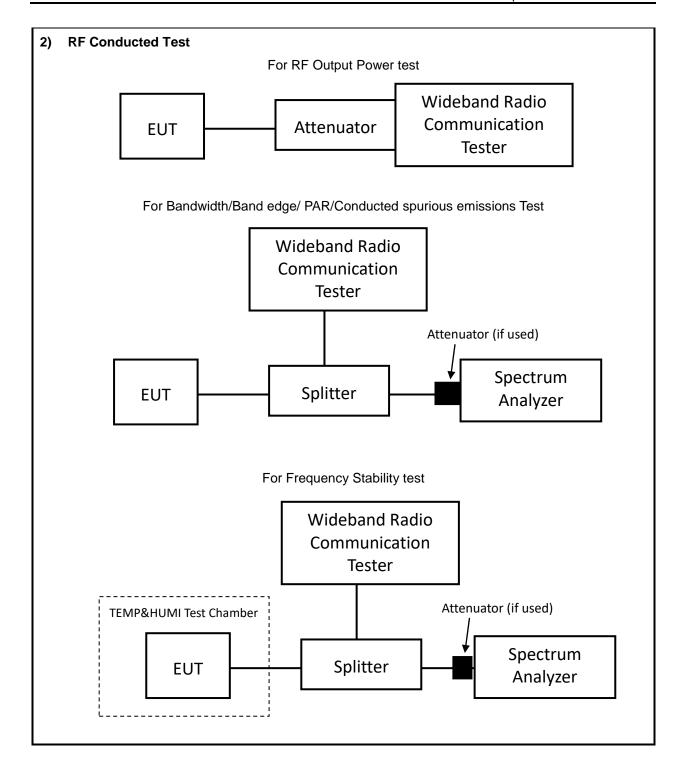
# 2.5 Block Diagram of Connection between EUT and AE



## 2.6 Test Setup









## 2.7 Test Procedure

#### **Radiated Emission Procedure:**

#### a) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

#### b) For above 1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

#### **RF Conducted Test:**

- 1. The antenna port of EUT was connected to the RF port of the test equipment (Wideband Radio Communication Tester or Spectrum analyzer) through Attenuator and RF cable.
- 2. The cable assembly insertion loss of 7dB (including 6.0 dB Splitter, 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

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## 2.8 Measurement Method

Description of Test	Measurement Method
RF Output Power	ANSI C63.26-2015 section 5.2
ERP/EIRP	ANSI C63.26-2015 section 5.2.5.5
Peak-to-Average Ratio	ANSI C63.26-2015 section 5.2.3.4
26dB and 99% Bandwidth	ANSI C63.26-2015 section 5.4
Band Edge	ANSI C63.26-2015 section 5.7.3
Conducted Spurious Emissions	ANSI C63.26-2015 section 5.7.4
Frequency Stability	ANSI C63.26-2015 section 5.6
Radiated Spurious Emissions	ANSI C63.26-2015 section 5.5.4



# 2.9 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
		Radiated Emissio	n Test		
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2023/7/12	2024/7/11
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable N/A		NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/
		RF Conducted	Test		
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2023/7/12	2024/7/11
BACL	TEMP&HUMI Test Chamber	BTH-150	30022	2023/7/12	2024/7/11
HP	Power Splitter	11667A	1610A	2023/7/26	2024/7/25
FLUKE	Digital Multimeter	15B+	N/A	2023/7/12	2024/7/11
ROHDE& SCHWARZ	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	116218	2023/9/12	2024/9/11

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



# 3 Test Results

# 3.1 Test Summary

FCC Rules	Description of Test	Result
FCC§2.1046; § 22.913; § 24.232; §27.50	RF Output Power	Compliance
FCC§ 2.1047	Modulation Characteristics	Compliance
FCC§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	26dB and 99% Bandwidth	Compliance
FCC§ 2.1051; § 22.917; § 24.238; §27.53	Conducted Spurious Emissions	Compliance
FCC§ 22.917; § 24.238; §27.53	Out of band emission, Band Edge	Compliance
FCC§ 2.1055; § 22.355; § 24.235; §27.54	Frequency stability	Compliance
FCC§ 2.1053; § 22.917; § 24.238; §27.53	Radiated Spurious Emissions	Compliance



# 3.2 Limit

Test items	Limit									
	FCC §22.913:	FCC §22.913:								
	(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.									
	(d) Power measurement. Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to average ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:									
RF Output Power	(1) A Commission-app Knowledge Database);		ge power techni	que (see FC	CC Laboratory's					
	(2) For purposes of thi interval of continuous rms equivalent voltage any instrument limitat bandwidth capability vso as to obtain a true pandwidth of the char	transmissior	n using instrume rement results detector respo red to the emis	entation cal shall be pro inse times, l sion bandw	librated in terms of an operly adjusted for limited resolution ridth, sensitivity, etc.,					
	FCC §22.917:									
	(a) Out of band emissions. 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.									
	(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:									
Unwanted Emissions  (Out of band emission and spurious)	(1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.									
	(2) In the spectrum about	ove 1 GHz, ir	nstrumentation s	should empl	loy a reference					
	bandwidth of 1 MHz FCC §22.355:									
	Except as otherwise pr the Public Mobile Serv C-1 of this section.	ices must be	maintained with	nin the toler						
	Table C-1—Frequency Toler	ance for Transmitte	rs in the Public Mobile S	Services						
Frequency stability	Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)						
	25 to 50	20.0	20.0	50.0						
	50 to 450	5.0	5.0	50.0						
	450 to 512	2.5	5.0	5.0						
	821 to 896	1.5	2.5	2.5						
	928 to 929 929 to 960	5.0	n/a n/a	n/a n/a						
	2110 to 2220	10.0	n/a	n/a						
			/ u	,						

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Test items	Limit
	FCC §24.232:
	(c)Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
RF Output Power	(d)Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
	FCC §24.238:
	The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.
	(a) Out of band emissions. 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.
Unwanted Emissions (Out of band emission and spurious)	(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
	(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.
	(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.
	FCC §24.235:
Frequency stability	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.



Test items	Limit
	FCC §27.50:
RF Output Power	(a)(3) Mobile and portable stations.  (i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.  (iii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.  (iii) Automatic transmit power control. Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.  (iv) Prohibition on external vehicle-mounted antennas. The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.  (b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.  (d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1710-1755 MHz band and mobile and portable 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 w



#### FCC §27.53:

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4)For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

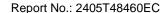
- (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
- (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

MHz.

(Out of band emission and spurious)

**Unwanted Emissions** 

- (c)For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P) dB$ ;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.





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

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

#### (h) AWS emission limits

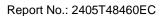
(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

(m)(4) 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.

### FCC §27.54:

#### Frequency stability

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





# 3.3 RF Conducted Test Data

Test Date:	2024-06-10~2024-06-25	Test By:	Ryan Zhang			
Environment condition:	Temperature: 25.1~26.1°C; Re	lative Humidity:49~59%;				
Environment condition.	ATM Pressure: 100.4~100.8kPa					

# 3.3.1 RF Output Power&ERP/EIRP

#### LTE Band 2

Bandwidth	Modulation	RB size/		ted Averag Power (dBn	-	EIRP(dBm)		
(MHz)		RB Offset	Low	Mid	High	Low	Mid	High
		RB1#0	20.90	20.78	20.89	19.75	19.63	19.74
		RB1#3	20.87	20.79	20.83	19.72	19.64	19.68
		RB1#5	20.82	20.85	20.91	19.67	19.70	19.76
	QPSK	RB3#0	19.98	19.71	20.04	18.83	18.56	18.89
		RB3#3	20.06	19.86	19.90	18.91	18.71	18.75
		RB6#0	18.82	18.53	18.67	17.67	17.38	17.52
1.4		RB1#0	19.84	19.38	19.68	18.69	18.23	18.53
		RB1#3	19.75	19.21	19.44	18.60	18.06	18.29
		RB1#5	19.67	19.44	19.62	18.52	18.29	18.47
	16QAM	RB3#0	19.48	19.08	19.24	18.33	17.93	18.09
		RB3#3	19.30	19.11	19.27	18.15	17.96	18.12
		RB5#0	18.64	18.32	18.81	17.49	17.17	17.66
		RB1#1	20.79	20.45	20.88	19.64	19.30	19.73
		RB1#4	20.63	20.50	20.77	19.48	19.35	19.62
		RB1#6	20.82	20.72	20.55	19.67	19.57	19.40
	QPSK	RB3#1	19.73	19.84	19.80	18.58	18.69	18.65
		RB3#4	19.93	19.64	20.08	18.78	18.49	18.93
		RB6#1	18.64	18.32	18.40	17.49	17.17	17.25
3.0		RB1#1	19.58	19.12	19.61	18.43	17.97	18.46
		RB1#4	19.54	19.09	19.68	18.39	17.94	18.53
	_	RB1#6	19.61	19.21	19.71	18.46	18.06	18.56
	16QAM	RB3#1	19.28	19.01	19.34	18.13	17.86	18.19
		RB3#4	19.22	19.04	19.38	18.07	17.89	18.23
		RB5#1	18.92	18.24	18.82	17.77	17.09	17.67
		RB1#0	20.83	20.42	20.93	19.68	19.27	19.78
5.0	QPSK	RB1#3	20.54	20.35	20.80	19.39	19.20	19.65
		RB1#5	20.90	20.52	20.63	19.75	19.37	19.48

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RB3#0 19.73 19.42 19.64 18.58 18.27  RB3#3 19.80 19.52 19.64 18.65 18.37  RB6#0 19.42 19.05 19.37 18.27 17.90  RB1#0 20.72 20.38 20.65 19.57 19.23  RB1#3 20.69 20.15 20.64 19.54 19.00  RB1#5 20.86 20.30 20.61 19.71 19.15  RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	18.49 18.22 19.50 19.49 19.46 18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB6#0 19.42 19.05 19.37 18.27 17.90  RB1#0 20.72 20.38 20.65 19.57 19.23  RB1#3 20.69 20.15 20.64 19.54 19.00  RB1#5 20.86 20.30 20.61 19.71 19.15  RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	18.22 19.50 19.49 19.46 18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB1#0 20.72 20.38 20.65 19.57 19.23  RB1#3 20.69 20.15 20.64 19.54 19.00  RB1#5 20.86 20.30 20.61 19.71 19.15  RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.50 19.49 19.46 18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB1#3 20.69 20.15 20.64 19.54 19.00 RB1#5 20.86 20.30 20.61 19.71 19.15 RB3#0 19.72 19.24 19.56 18.57 18.09 RB5#0 19.24 18.92 19.12 18.09 17.77 RB1#1 20.76 20.56 20.98 19.61 19.41 RB1#4 20.50 20.14 20.59 19.35 18.99 RB1#6 20.48 20.04 20.64 19.33 18.89 RB3#1 20.52 20.46 20.70 19.37 19.31 RB3#4 20.36 20.21 20.48 19.21 19.06 RB6#1 20.54 20.27 20.33 19.39 19.12	19.49 19.46 18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB1#5 20.86 20.30 20.61 19.71 19.15  RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.46 18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	18.41 18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB3#0 19.72 19.24 19.56 18.57 18.09  RB3#3 19.83 19.37 19.66 18.68 18.22  RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	18.51 17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB5#0 19.24 18.92 19.12 18.09 17.77  RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	17.97 19.83 19.44 19.49 19.55 19.33 19.18
RB1#1 20.76 20.56 20.98 19.61 19.41  RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.83 19.44 19.49 19.55 19.33 19.18
RB1#4 20.50 20.14 20.59 19.35 18.99  RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.44 19.49 19.55 19.33 19.18
RB1#6 20.48 20.04 20.64 19.33 18.89  RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.49 19.55 19.33 19.18
RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.55 19.33 19.18
RB3#1 20.52 20.46 20.70 19.37 19.31  RB3#4 20.36 20.21 20.48 19.21 19.06  RB6#1 20.54 20.27 20.33 19.39 19.12	19.33
RB6#1 20.54 20.27 20.33 19.39 19.12	19.18
10.0	
10.0	40.50
RB1#1   20.94   20.45   20.73   19.79   19.30	19.58
RB1#4 20.40 20.10 20.37 19.25 18.95	19.22
RB1#6 20.51 20.38 20.67 19.36 19.23	19.52
16QAM RB3#1 20.74 20.25 20.88 19.59 19.10	19.73
RB3#4 20.45 20.21 20.13 19.30 19.06	18.98
RB5#1 20.39 20.13 20.46 19.24 18.98	19.31
RB1#1 20.86 20.66 20.94 19.71 19.51	19.79
RB1#4 20.61 20.24 20.59 19.46 19.09	19.44
RB1#6 20.37 19.94 20.65 19.22 18.79	19.50
QPSK RB3#1 20.53 20.35 20.70 19.38 19.20	19.55
RB3#4 20.27 20.12 20.47 19.12 18.97	19.32
RB6#1 20.53 20.18 20.24 19.38 19.03	19.09
15.0 RB1#1 20.85 20.36 20.84 19.70 19.21	19.69
RB1#4 20.30 20.09 20.36 19.15 18.94	19.21
RB1#6 20.40 20.49 20.58 19.25 19.34	19.43
16QAM RB3#1 20.64 20.35 20.98 19.49 19.20	19.83
RB3#4 20.44 20.30 20.24 19.29 19.15	19.09
RB5#1 20.40 20.02 20.57 19.25 18.87	19.42
RB1#2 20.85 20.67 20.98 19.70 19.52	19.83
RB1#4 20.60 20.13 20.58 19.45 18.98	19.43
RB1#7 20.48 20.14 20.74 19.33 18.99	19.59
20.0 QPSK RB3#2 20.43 20.46 20.80 19.28 19.31	19.65
RB3#5 20.47 20.31 20.47 19.32 19.16	19.32
RB6#2 20.45 20.37 20.22 19.30 19.22	19.07
16QAM RB1#2 20.82 20.44 20.63 19.67 19.29	19.48



RB1#5	20.51	20.11	20.26	19.36	18.96	19.11
RB1#7	20.50	20.28	20.67	19.35	19.13	19.52
RB3#2	20.75	20.24	20.87	19.60	19.09	19.72
RB3#5	20.46	20.12	20.22	19.31	18.97	19.07
RB5#2	20.38	20.14	20.46	19.23	18.99	19.31

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For Band2: Antenna Gain = -1.15dBi

Cable Loss=0dB\*(provided by the applicant)

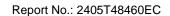
Limit: EIRP≤33dBm

### LTE Band 4

Bandwidth	Modulation		Conducted Average Output Power (dBm)			EIRP(dBm)		
(MHz)		RB Offset	Low	Mid	High	Low	Mid	High
		RB1#0	20.99	20.89	20.79	20.26	20.16	20.06
		RB1#3	20.86	20.68	20.82	20.13	19.95	20.09
		RB1#5	20.91	20.85	20.90	20.18	20.12	20.17
	QPSK	RB3#0	20.09	19.61	19.95	19.36	18.88	19.22
		RB3#3	19.97	19.87	20.01	19.24	19.14	19.28
		RB6#0	18.71	18.62	18.56	17.98	17.89	17.83
1.4		RB1#0	19.74	19.48	19.79	19.01	18.75	19.06
		RB1#3	19.66	19.11	19.35	18.93	18.38	18.62
	16QAM	RB1#5	19.77	19.54	19.51	19.04	18.81	18.78
		RB3#0	19.58	19.18	19.23	18.85	18.45	18.50
		RB3#3	19.21	19.11	19.37	18.48	18.38	18.64
		RB5#0	18.53	18.21	18.91	17.80	17.48	18.18
		RB1#1	20.90	20.54	20.99	20.17	19.81	20.26
		RB1#4	20.52	20.60	20.67	19.79	19.87	19.94
		RB1#6	20.81	20.61	20.54	20.08	19.88	19.81
	QPSK	RB3#1	19.62	19.74	19.90	18.89	19.01	19.17
		RB3#4	19.94	19.75	19.98	19.21	19.02	19.25
		RB6#1	18.53	18.22	18.31	17.80	17.49	17.58
3.0		RB1#1	19.48	19.21	19.62	18.75	18.48	18.89
		RB1#4	19.43	19.10	19.57	18.70	18.37	18.84
		RB1#6	19.52	19.21	19.81	18.79	18.48	19.08
	16QAM	RB3#1	19.17	19.10	19.23	18.44	18.37	18.50
		RB3#4	19.11	19.14	19.39	18.38	18.41	18.66
		RB5#1	19.01	18.14	18.73	18.28	17.41	18.00



ABH#0 20.74 20.51 20.85 20.01 19.78 20.12  RB1#3 20.43 20.46 20.90 19.70 19.73 20.17  RB1#5 20.80 20.51 20.53 20.07 19.78 19.80  RB3#3 19.81 19.42 19.55 19.08 18.69 18.82  RB6#0 19.33 19.06 19.27 18.60 18.33 18.54  RB1#0 20.71 20.28 20.64 19.98 19.55 19.91  RB1#3 20.79 20.14 20.26 20.65 20.06 19.41 19.92  RB1#3 19.79 20.14 20.26 20.65 20.06 19.41 19.92  RB3#3 19.81 19.45 19.55 19.08 18.69 19.76  RB1#3 20.79 20.14 20.26 20.66 20.06 19.41 19.92  RB1#5 20.97 20.31 20.51 20.24 19.58 19.78  RB3#3 19.73 19.36 19.65 19.00 18.63 18.92  RB5#0 19.15 19.03 19.01 18.42 18.30 18.28  RB1#1 20.77 20.47 20.99 20.04 19.74 20.26  RB1#4 20.61 20.25 20.59 19.88 19.52 19.86  RB3#4 20.42 20.56 20.59 19.88 19.52 19.86  RB3#4 20.42 20.56 20.59 19.89 19.57 19.86  RB3#4 20.44 20.18 20.32 19.71 19.45 19.59  RB1#1 20.44 20.18 20.32 19.71 19.45 19.59  RB1#4 20.41 19.99 20.47 19.66 19.42 20.09  RB1#4 20.41 19.99 20.47 19.68 19.25 19.75 19.94  RB1#4 20.61 20.25 20.59 19.89 19.75 19.94  RB1#4 20.41 19.99 20.47 19.68 19.25 19.74  RB1#4 20.41 19.99 20.47 19.68 19.25 19.74  RB1#4 20.64 20.34 20.97 19.91 19.61 20.24  RB1#4 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.62 20.48 20.67 19.89 19.75 19.94  RB1#4 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.66 20.29 20.27 19.91 19.61 20.24  RB3#4 20.66 20.29 20.27 19.91 19.61 20.24  RB3#4 20.26 19.95 20.64 19.55 19.29 19.73  RB1#1 20.44 20.80 20.31 19.71 19.65 19.29 19.75  RB1#4 20.40 20.80 20.23 19.71 19.72 19.98  RB3#4 20.26 20.27 20.26 19.95 19.29 19.73  RB1#4 20.26 20.90 20.90 30.19 20.19 19.79 19.80  RB1#4 20.40 20.80 20.37 19.67 19.87 19.94  RB1#4 20.40 20.80 20.37 19.67 19.87 19.97  RB1#4 20.40 20.80 20.37 19.67 19.87 19.98  RB1#4 20.40 20.80 20.90 20.91 19.60 19.87 19.87  RB1#4 20.40 20.80 20.91 19.80 19.87 19.87  RB1#4 20.80 20.90 20.90 19.87 19.87 19.80  RB1#4 20.80 20.90 20.90 19.87 19.87 19.80  RB1#4 20.80 20.90 20.90 19.87 19.87 19.80  RB1#4 20.80 20.80 20.80 20			DD1#0	20.74	20.51	20.05	20.01	10.70	20.42
OPSK  RB1#5 20.80 20.51 20.53 20.07 19.78 19.80  RB3#0 19.74 19.31 19.75 19.01 18.58 19.02  RB3#3 19.81 19.42 19.55 19.08 18.69 18.82  RB6#0 19.33 19.06 19.27 18.60 18.33 18.54  RB1#0 20.71 20.28 20.64 19.98 19.55 19.91  RB1#3 20.79 20.14 20.65 20.06 19.41 19.92  RB1#5 20.97 20.31 20.51 20.24 19.58 19.78  RB3#0 19.81 19.35 19.55 19.08 18.62 18.82  RB3#0 19.81 19.35 19.55 19.08 18.62 18.82  RB3#3 19.73 19.36 19.65 19.00 18.63 18.92  RB5#0 19.15 19.03 19.01 18.42 18.30 18.28  RB1#1 20.61 20.25 20.59 19.88 19.52 19.86  RB1#4 20.61 20.25 20.59 19.88 19.52 19.86  RB3#1 20.42 20.56 20.59 19.69 19.83 19.66  RB3#1 20.44 20.18 20.32 19.71 19.45 19.59  RB1#4 20.41 19.99 20.47 19.66 19.42 20.09  RB1#4 20.41 19.99 20.47 19.68 19.26 19.74  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB5#1 20.64 20.34 20.97 19.91 19.61 20.09  RB1#6 20.39 20.14 20.47 19.66 19.41 19.49  RB5#1 20.64 20.34 20.67 19.89 19.75 19.94  RB5#1 20.64 20.34 20.67 19.89 19.75 19.94  RB5#1 20.69 20.40 20.47 19.66 19.41 19.74  RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#1 20.64 20.35 20.75 20.93 20.12 20.02 20.20  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.20 20.20 20.46 19.55 19.22 19.91  RB1#6 20.40 20.20 20.46 19.55 19.22 19.91  RB1#6 20.40 20.20 20.47 19.66 19.41 19.79  RB1#4 20.20 20.00 20.37 19.56 19.36 19.64  RB1#4 20.20 20.00 20.37 19.56 19.36 19.64  RB1#4 20.20 20.00 20.37 19.56 19.36 19.64  RB1#4 20.20 20.00 20.37 19.56 19.36 19.67  RB1#4 20.40 20.30 20.47 19.69 19.30 19.78  RB1#4 20.60 20.30 20.47 19.76 19.30 19.78  RB3#1 20.64 20.36 20.59 19.87 19.30 19.78  RB1#4 20.60 20.30 20.47 19.76 19.30 19.78  RB3#1 20.64 20.36 20.59 19.87 19.30 19.86  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.30 20.85 19.85 19.30 20.12									
10.0    RB3#0									
16QAM  1804  1807  1807  1807  1808  1808  1808  1808  1808  1808  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809  1809		QPSK							
10.0    RB6#0									
16QAM   RB1#0   20.71   20.28   20.64   19.98   19.55   19.91   RB1#3   20.79   20.14   20.65   20.06   19.41   19.92   RB1#5   20.97   20.31   20.51   20.24   19.58   19.78   RB3#0   19.81   19.35   19.55   19.08   18.62   18.82   RB3#3   19.73   19.36   19.65   19.00   18.63   18.92   RB5#0   19.15   19.03   19.01   18.42   18.30   18.28   RB1#1   20.77   20.47   20.99   20.04   19.74   20.26   20.39   20.15   20.59   19.88   19.52   19.86   RB1#4   20.61   20.25   20.59   19.88   19.52   19.86   RB1#4   20.42   20.56   20.59   19.69   19.83   19.86   RB3#4   20.36   20.30   20.37   19.63   19.57   19.64   RB6#1   20.44   20.18   20.32   19.71   19.45   19.59   19.64   RB1#4   20.41   19.99   20.47   19.68   19.26   19.74   RB1#6   20.62   20.48   20.67   19.89   19.75   19.94   RB3#1   20.64   20.34   20.97   19.91   19.61   20.09   RB3#1   20.64   20.34   20.97   19.91   19.61   20.24   RB3#4   20.56   20.22   20.22   20.22   19.83   19.49   19.49   19.49   19.45   19.59   19.55   19.94   19.65   19.44   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45   20.45									
16QAM   RB1#3   20.79   20.14   20.65   20.06   19.41   19.92   RB1#5   20.97   20.31   20.51   20.24   19.58   19.78   RB3#0   19.81   19.35   19.55   19.08   18.62   18.82   RB3#3   19.73   19.36   19.65   19.00   18.63   18.92   RB5#0   19.15   19.03   19.01   18.42   18.30   18.28   RB1#1   20.77   20.47   20.99   20.04   19.74   20.26   20.86   20.59   19.88   19.52   19.86   RB3#4   20.61   20.25   20.59   19.88   19.52   19.86   RB3#4   20.36   20.30   20.37   19.63   19.65   19.05   19.64   RB6#1   20.44   20.18   20.32   19.71   19.45   19.59   19.88   19.52   19.86   RB1#4   20.41   19.99   20.47   19.68   19.26   19.74   19.66   19.42   20.01   RB1#4   20.41   19.99   20.47   19.68   19.26   19.74   19.65   19.59   19.83   19.66   19.42   20.09   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.69   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60   19.60	5.0								
16QAM  RB1#5									
16QAM  RB3#0 19.81 19.35 19.55 19.08 18.62 18.82  RB3#3 19.73 19.36 19.65 19.00 18.63 18.92  RB5#0 19.15 19.03 19.01 18.42 18.30 18.28  RB1#1 20.77 20.47 20.99 20.04 19.74 20.26  RB1#4 20.61 20.25 20.59 19.88 19.52 19.86  RB1#6 20.39 20.15 20.74 19.66 19.42 20.01  RB3#1 20.42 20.56 20.59 19.69 19.83 19.86  RB3#4 20.36 20.30 20.37 19.63 19.57 19.64  RB6#1 20.44 20.18 20.32 19.71 19.45 19.59  RB1#6 20.62 20.48 20.30 20.11 19.61 20.09  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.56 20.22 20.22 19.83 19.49 19.49  RB5#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.64 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#6 20.20 20.09 20.37 19.56 19.36 19.64  RB3#1 20.44 20.08 20.23 19.71 19.61 20.11  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#1 20.64 20.39 20.09 20.37 19.56 19.30 19.74  RB3#4 20.29 20.09 20.37 19.56 19.30 19.74  RB3#4 20.29 20.09 20.37 19.56 19.30 19.78  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#1 20.64 20.66 20.89 20.11 19.93 20.16  RB3#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.85 19.30 20.12									
10.0    RB3#3		16OAM	RB1#5	20.97	20.31	20.51	20.24	19.58	
RB5#0 19.15 19.03 19.01 18.42 18.30 18.28  RB1#1 20.77 20.47 20.99 20.04 19.74 20.26  RB1#4 20.61 20.25 20.59 19.88 19.52 19.86  RB1#6 20.39 20.15 20.74 19.66 19.42 20.01  RB3#1 20.42 20.56 20.59 19.69 19.83 19.86  RB3#4 20.36 20.30 20.37 19.63 19.57 19.64  RB6#1 20.44 20.18 20.32 19.71 19.45 19.59  RB1#1 20.84 20.34 20.82 20.11 19.61 20.09  RB1#4 20.41 19.99 20.47 19.68 19.26 19.74  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.56 20.22 20.22 19.83 19.49 19.49  RB5#1 20.39 20.14 20.47 19.66 19.41 19.74  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB3#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#6 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB3#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.21 19.80 19.76 19.80  RB1#6 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB1#6 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#1 20.64 20.66 20.89 20.11 19.93 20.16  RB3#4 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.85 19.85 19.30 20.12		TOQAIVI	RB3#0	19.81	19.35	19.55	19.08	18.62	18.82
RB1#1 20.77 20.47 20.99 20.04 19.74 20.26  RB1#4 20.61 20.25 20.59 19.88 19.52 19.86  RB1#6 20.39 20.15 20.74 19.66 19.42 20.01  RB3#1 20.42 20.56 20.59 19.69 19.83 19.86  RB3#4 20.36 20.30 20.37 19.63 19.57 19.64  RB6#1 20.44 20.18 20.32 19.71 19.45 19.59  RB1#1 20.84 20.34 20.82 20.11 19.61 20.09  RB1#4 20.41 19.99 20.47 19.68 19.26 19.74  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.56 20.22 20.22 19.83 19.49 19.49  RB5#1 20.39 20.14 20.47 19.66 19.41 19.74  RB1#6 20.62 20.13 20.58 19.97 19.40 19.85  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.43 20.45 20.71 19.70 19.72 19.98  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#1 20.44 20.08 20.23 19.71 19.35 19.50  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#1 20.49 20.03 20.47 19.76 19.30 19.74  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#4 20.00 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86			RB3#3	19.73	19.36	19.65	19.00	18.63	18.92
APSK  RB1#4			RB5#0	19.15	19.03	19.01	18.42	18.30	18.28
APSK RB1#6			RB1#1	20.77	20.47	20.99	20.04	19.74	20.26
10.0    RB3#1   20.42   20.56   20.59   19.69   19.83   19.86   RB3#4   20.36   20.30   20.37   19.63   19.57   19.64   RB6#1   20.44   20.18   20.32   19.71   19.45   19.59   RB1#1   20.84   20.34   20.82   20.11   19.61   20.09   20.47   19.68   19.26   19.74   RB1#6   20.62   20.48   20.67   19.89   19.75   19.94   RB3#1   20.64   20.34   20.97   19.91   19.61   20.24   20.84   20.34   20.97   19.91   19.61   20.24   RB3#4   20.56   20.22   20.22   19.83   19.49   19.49   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.66   19.41   19.74   20.47   19.67   19.40   19.85   20.64   19.53   19.22   19.91   20.64   20.64   20.64   19.53   19.22   19.91   20.64   20.64   19.53   19.22   19.91   20.64   20.64   20.64   20.64   19.55   19.29   19.73   20.64   20.64   20.65   20.67   20.67   20.67   19.67   19.75   19.50   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67   20.67			RB1#4	20.61	20.25	20.59	19.88	19.52	19.86
10.0    RB3#1   20.42   20.56   20.59   19.69   19.83   19.86     RB3#4   20.36   20.30   20.37   19.63   19.57   19.64     RB6#1   20.44   20.18   20.32   19.71   19.45   19.59     RB1#1   20.84   20.34   20.82   20.11   19.61   20.09     RB1#4   20.41   19.99   20.47   19.68   19.26   19.74     RB3#1   20.64   20.34   20.97   19.91   19.61   20.24     RB3#4   20.56   20.22   20.22   19.83   19.49   19.49     RB5#1   20.39   20.14   20.47   19.66   19.41   19.74     RB1#4   20.70   20.13   20.58   19.97   19.40   19.85     RB1#6   20.26   19.95   20.64   19.53   19.22   19.91     RB3#4   20.28   20.02   20.46   19.55   19.29   19.73     RB6#1   20.44   20.08   20.23   19.71   19.35   19.50     RB1#4   20.76   20.37   20.84   20.03   19.64   20.11     RB1#4   20.29   20.09   20.37   19.56   19.36   19.64     RB1#6   20.40   20.60   20.67   19.67   19.87   19.94     RB3#1   20.64   20.36   20.51   19.91   19.63   19.78     RB3#4   20.55   20.40   20.25   19.82   19.67   19.52     RB5#1   20.49   20.03   20.47   19.76   19.30   19.74     RB1#2   20.84   20.66   20.89   20.11   19.93   20.16     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#7   20.58   20.03   20.85   19.85   19.30   20.12     RB1#8   20.64   20.58   20.03   20.85   19.85   19.30   20.12     RB1#8   20.64   20.58   20.03   20.85   19.85   19.30   20.12     RB1#8   20.64   20.68   20.68   20.85   19.85   19		0.001/	RB1#6	20.39	20.15	20.74	19.66	19.42	20.01
10.0    RB6#1   20.44   20.18   20.32   19.71   19.45   19.59     RB1#1   20.84   20.34   20.82   20.11   19.61   20.09     RB1#4   20.41   19.99   20.47   19.68   19.26   19.74     RB1#6   20.62   20.48   20.67   19.89   19.75   19.94     RB3#1   20.64   20.34   20.97   19.91   19.61   20.24     RB3#4   20.56   20.22   20.22   19.83   19.49   19.49     RB5#1   20.39   20.14   20.47   19.66   19.41   19.74     RB1#4   20.70   20.13   20.58   19.97   19.40   19.85     RB1#4   20.26   19.95   20.64   19.53   19.22   19.91     RB3#4   20.28   20.02   20.46   19.55   19.29   19.73     RB6#1   20.44   20.08   20.23   19.71   19.35   19.50     RB1#1   20.76   20.37   20.84   20.03   19.64   20.11     RB1#4   20.29   20.09   20.37   19.56   19.36   19.64     RB3#4   20.26   20.36   20.51   19.91   19.63   19.78     RB3#4   20.55   20.40   20.25   19.82   19.67   19.52     RB5#1   20.49   20.03   20.47   19.76   19.30   19.74     RB1#4   20.60   20.03   20.59   19.87   19.30   19.74     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#7   20.58   20.03   20.85   19.85   19.30   20.12     RB1#7		QPSK	RB3#1	20.42	20.56	20.59	19.69	19.83	19.86
10.0    RB1#1   20.84   20.34   20.82   20.11   19.61   20.09     RB1#4   20.41   19.99   20.47   19.68   19.26   19.74     RB1#6   20.62   20.48   20.67   19.89   19.75   19.94     RB3#1   20.64   20.34   20.97   19.91   19.61   20.24     RB3#4   20.56   20.22   20.22   19.83   19.49   19.49     RB5#1   20.39   20.14   20.47   19.66   19.41   19.74     RB1#4   20.70   20.13   20.58   19.97   19.40   19.85     RB1#4   20.26   19.95   20.64   19.53   19.22   19.91     RB3#4   20.28   20.02   20.46   19.55   19.29   19.73     RB6#1   20.44   20.08   20.23   19.71   19.35   19.50     RB1#4   20.29   20.09   20.37   19.56   19.36   19.64     RB1#4   20.29   20.09   20.37   19.56   19.36   19.64     RB1#4   20.29   20.09   20.37   19.56   19.36   19.78     RB3#4   20.55   20.40   20.25   19.82   19.67   19.52     RB5#1   20.49   20.03   20.47   19.76   19.30   19.74     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#4   20.60   20.03   20.59   19.87   19.30   19.86     RB1#4   20.60   20.03   20.55   19.85   19.30   20.12     RB1#4   20.60   20.03   20.85   19.85   19.30   20.12     RB1#4   20.55   20.03   20.85   19.85   19.30   20.12     RB1#4   20.60   20.03   20.85   19.85   19.30   20.12     RB1#4   20.55   20.03   20.85   19.85   19.30   20.12     RB1#4   20.60   20.03   20.85   19.85   19.30   20.12     RB1#4   20.60   20.03   20.85   19.85   19.30   20.12     RB1#4			RB3#4	20.36	20.30	20.37	19.63	19.57	19.64
RB1#4 20.41 19.99 20.47 19.68 19.26 19.74  RB1#6 20.62 20.48 20.67 19.89 19.75 19.94  RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.56 20.22 20.22 19.83 19.49 19.49  RB5#1 20.39 20.14 20.47 19.66 19.41 19.74  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#4 20.55 20.40 20.65 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.55 19.85 19.30 20.12			RB6#1	20.44	20.18	20.32	19.71	19.45	19.59
16QAM RB1#6 20.62 20.48 20.67 19.89 19.75 19.94 RB3#1 20.64 20.34 20.97 19.91 19.61 20.24 RB3#4 20.56 20.22 20.22 19.83 19.49 19.49 RB5#1 20.39 20.14 20.47 19.66 19.41 19.74 RB1#4 20.70 20.13 20.58 19.97 19.40 19.85 RB1#6 20.26 19.95 20.64 19.53 19.22 19.91 RB3#4 20.28 20.02 20.46 19.55 19.29 19.73 RB6#1 20.44 20.48 20.29 20.46 19.55 19.29 19.73 RB1#1 20.76 20.37 20.84 20.03 19.64 20.11 RB1#4 20.29 20.09 20.37 19.56 19.36 19.64 RB1#6 20.40 20.60 20.67 19.67 19.87 19.98 RB3#4 20.55 20.40 20.25 19.82 19.67 19.52 RB5#1 20.49 20.03 20.47 19.63 19.78 RB5#1 20.49 20.03 20.47 19.76 19.30 19.78 RB5#1 20.49 20.03 20.47 19.76 19.30 19.74 RB1#4 20.29 20.84 20.03 20.47 19.63 19.78 RB5#1 20.49 20.03 20.47 19.76 19.30 19.74 RB1#4 20.49 20.03 20.47 19.76 19.30 19.74 RB1#4 20.60 20.03 20.59 19.87 19.30 19.86 RB1#4 20.60 20.03 20.59 19.87 19.30 19.86 RB1#4 20.60 20.03 20.85 19.85 19.30 20.12	10.0	16QAM	RB1#1	20.84	20.34	20.82	20.11	19.61	20.09
16QAM RB3#1 20.64 20.34 20.97 19.91 19.61 20.24 RB3#4 20.56 20.22 20.22 19.83 19.49 19.49 RB5#1 20.39 20.14 20.47 19.66 19.41 19.74 19.74    RB1#1 20.85 20.75 20.93 20.12 20.02 20.20 RB1#4 20.70 20.13 20.58 19.97 19.40 19.85 RB1#6 20.26 19.95 20.64 19.53 19.22 19.91 RB3#1 20.43 20.45 20.71 19.70 19.72 19.98 RB3#4 20.28 20.02 20.46 19.55 19.29 19.73 RB6#1 20.44 20.08 20.23 19.71 19.35 19.50 RB1#6 20.26 20.37 20.84 20.03 19.64 20.11 RB1#6 20.40 20.60 20.37 19.56 19.36 19.64 RB1#6 20.40 20.60 20.67 19.67 19.87 19.94 RB3#1 20.64 20.36 20.51 19.91 19.63 19.78 RB3#4 20.55 20.40 20.25 19.82 19.67 19.52 RB5#1 20.49 20.03 20.47 19.76 19.30 19.74 RB1#2 20.84 20.66 20.89 20.11 19.93 20.16 RB1#4 20.60 20.03 20.59 19.87 19.30 19.86 RB1#4 20.60 20.03 20.85 19.85 19.30 20.12			RB1#4	20.41	19.99	20.47	19.68	19.26	19.74
RB3#1 20.64 20.34 20.97 19.91 19.61 20.24  RB3#4 20.56 20.22 20.22 19.83 19.49 19.49  RB5#1 20.39 20.14 20.47 19.66 19.41 19.74  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB1#6	20.62	20.48	20.67	19.89	19.75	19.94
RB5#1 20.39 20.14 20.47 19.66 19.41 19.74  RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#4 20.60 20.03 20.47 19.76 19.30 19.74  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.55 19.85 19.30 20.12			RB3#1	20.64	20.34	20.97	19.91	19.61	20.24
RB1#1 20.85 20.75 20.93 20.12 20.02 20.20  RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB3#4	20.56	20.22	20.22	19.83	19.49	19.49
RB1#4 20.70 20.13 20.58 19.97 19.40 19.85  RB1#6 20.26 19.95 20.64 19.53 19.22 19.91  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.85 19.85 19.30 20.12			RB5#1	20.39	20.14	20.47	19.66	19.41	19.74
PSK RB1#6 20.26 19.95 20.64 19.53 19.22 19.91 RB3#1 20.43 20.45 20.71 19.70 19.72 19.98 RB3#4 20.28 20.02 20.46 19.55 19.29 19.73 RB6#1 20.44 20.08 20.23 19.71 19.35 19.50 RB1#1 20.76 20.37 20.84 20.03 19.64 20.11 RB1#4 20.29 20.09 20.37 19.56 19.36 19.64 RB1#6 20.40 20.60 20.67 19.67 19.87 19.94 RB3#1 20.64 20.36 20.51 19.91 19.63 19.78 RB3#4 20.55 20.40 20.25 19.82 19.67 19.52 RB5#1 20.49 20.03 20.47 19.76 19.30 19.74 RB1#2 20.84 20.66 20.89 20.11 19.93 20.16 RB1#4 20.60 20.03 20.59 19.87 19.30 19.86 RB1#4 20.60 20.03 20.85 19.85 19.30 20.12			RB1#1	20.85	20.75	20.93	20.12	20.02	20.20
PSK RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.55 19.85 19.30 20.12			RB1#4	20.70	20.13	20.58	19.97	19.40	19.85
15.0  RB3#1 20.43 20.45 20.71 19.70 19.72 19.98  RB3#4 20.28 20.02 20.46 19.55 19.29 19.73  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB1#6	20.26	19.95	20.64	19.53	19.22	19.91
15.0  RB6#1 20.44 20.08 20.23 19.71 19.35 19.50  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12		QPSK	RB3#1	20.43	20.45	20.71	19.70	19.72	19.98
15.0  RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB3#4	20.28	20.02	20.46	19.55	19.29	19.73
RB1#1 20.76 20.37 20.84 20.03 19.64 20.11  RB1#4 20.29 20.09 20.37 19.56 19.36 19.64  RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB6#1	20.44	20.08	20.23	19.71	19.35	19.50
RB1#6 20.40 20.60 20.67 19.67 19.87 19.94  RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12	15.0		RB1#1	20.76	20.37	20.84	20.03	19.64	20.11
RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB1#4	20.29	20.09	20.37	19.56	19.36	19.64
RB3#1 20.64 20.36 20.51 19.91 19.63 19.78  RB3#4 20.55 20.40 20.25 19.82 19.67 19.52  RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB1#6	20.40	20.60	20.67	19.67	19.87	19.94
RB5#1 20.49 20.03 20.47 19.76 19.30 19.74  RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12		16QAM	RB3#1	20.64	20.36	20.51	19.91	19.63	19.78
RB1#2 20.84 20.66 20.89 20.11 19.93 20.16  RB1#4 20.60 20.03 20.59 19.87 19.30 19.86  RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB3#4	20.55	20.40	20.25	19.82	19.67	19.52
20.0 QPSK RB1#4 20.60 20.03 20.59 19.87 19.30 19.86 RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB5#1	20.49	20.03	20.47	19.76	19.30	19.74
20.0 QPSK RB1#7 20.58 20.03 20.85 19.85 19.30 20.12			RB1#2	20.84	20.66	20.89	20.11	19.93	20.16
RB1#7   20.58   20.03   20.85   19.85   19.30   20.12			RB1#4	20.60	20.03	20.59	19.87	19.30	19.86
RB3#2 20.33 20.36 20.91 19.60 19.63 20.18	20.0	QPSK	RB1#7	20.58	20.03	20.85	19.85	19.30	20.12
			RB3#2	20.33	20.36	20.91	19.60	19.63	20.18





	RB3#5	20.37	20.21	20.36	19.64	19.48	19.63
	RB6#2	20.55	20.46	20.31	19.82	19.73	19.58
	RB1#2	20.72	20.53	20.53	19.99	19.80	19.80
	RB1#5	20.52	20.21	20.27	19.79	19.48	19.54
	RB1#7	20.60	20.38	20.56	19.87	19.65	19.83
16QAM	RB3#2	20.86	20.13	20.76	20.13	19.40	20.03
	RB3#5	20.46	20.03	20.12	19.73	19.30	19.39
	RB5#2	20.37	20.03	20.45	19.64	19.30	19.72

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

For Band4: Antenna Gain = -0.73dBi

Cable Loss=0dB\*(provided by the applicant)

Limit: EIRP≤30dBm

### LTE Band 5

Bandwidth	Modulation	RB size/	RB size/ Conducted Average Output Power (dBm)				ERP(dBm)	
(MHz)		RB Offset	Low	Mid	High	Low	Mid	High
		RB1#0	20.31	20.51	20.37	17.39	17.59	17.45
		RB1#3	20.22	20.36	20.52	17.30	17.44	17.60
		RB1#5	20.42	20.48	20.49	17.50	17.56	17.57
	QPSK	RB3#0	20.20	19.62	19.95	17.28	16.70	17.03
		RB3#3	20.08	19.78	19.91	17.16	16.86	16.99
		RB6#0	18.72	18.51	18.56	15.80	15.59	15.64
1.4	1.4	RB1#0	19.73	19.58	19.89	16.81	16.66	16.97
		RB1#3	19.77	19.00	19.36	16.85	16.08	16.44
	16QAM	RB1#5	19.76	19.55	19.52	16.84	16.63	16.60
		RB3#0	19.47	19.17	19.23	16.55	16.25	16.31
		RB3#3	19.12	19.22	19.26	16.20	16.30	16.34
		RB5#0	18.43	18.21	19.02	15.51	15.29	16.10
		RB1#1	20.90	20.63	20.88	17.98	17.71	17.96
		RB1#4	20.51	20.50	20.67	17.59	17.58	17.75
		RB1#6	20.70	20.62	20.63	17.78	17.70	17.71
	QPSK	RB3#1	19.63	19.64	19.99	16.71	16.72	17.07
3.0		RB3#4	19.94	19.86	19.99	17.02	16.94	17.07
		RB6#1	18.63	18.32	18.4	15.71	15.40	15.48
		RB1#1	19.48	19.30	19.72	16.56	16.38	16.80
	16QAM	RB1#4	19.42	19.11	19.67	16.50	16.19	16.75
		RB1#6	19.51	19.20	19.82	16.59	16.28	16.90



		RB3#1	19.07	19.20	19.12	16.15	16.28	16.20
		RB3#4	19.12	19.25	19.49	16.20	16.33	16.57
		RB5#1	18.91	18.15	18.84	15.99	15.23	15.92
		RB1#0	20.74	20.61	20.85	17.82	17.69	17.93
		RB1#3	20.54	20.46	20.89	17.62	17.54	17.97
		RB1#5	20.89	20.50	20.63	17.97	17.58	17.71
	QPSK	RB3#0	19.73	19.4	19.74	16.81	16.48	16.82
		RB3#3	19.92	19.42	19.66	17.00	16.50	16.74
		RB6#0	19.32	18.96	19.36	16.40	16.04	16.44
5.0		RB1#0	20.81	20.38	20.55	17.89	17.46	17.63
		RB1#3	20.80	20.15	20.76	17.88	17.23	17.84
		RB1#5	20.86	20.30	20.4	17.94	17.38	17.48
	16QAM	RB3#0	19.92	19.36	19.64	17.00	16.44	16.72
		RB3#3	19.84	19.27	19.55	16.92	16.35	16.63
		RB5#0	19.25	18.94	18.92	16.33	16.02	16.00
		RB1#1	20.67	20.38	20.9	17.75	17.46	17.98
		RB1#4	20.50	20.14	20.49	17.58	17.22	17.57
		RB1#6	20.28	20.14	20.83	17.36	17.22	17.91
	QPSK	RB3#1	20.42	20.56	20.5	17.50	17.64	17.58
		RB3#4	20.26	20.29	20.37	17.34	17.37	17.45
		RB6#1	20.55	20.29	20.33	17.63	17.37	17.41
10.0		RB1#1	20.94	20.24	20.83	18.02	17.32	17.91
		RB1#4	20.40	19.88	20.47	17.48	16.96	17.55
		RB1#6	20.53	20.58	20.66	17.61	17.66	17.74
	16QAM	RB3#1	20.55	20.35	20.87	17.63	17.43	17.95
		RB3#4	20.65	20.31	20.33	17.73	17.39	17.41
		RB5#1	20.39	20.24	20.46	17.47	17.32	17.54
I								

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

For Band5: Antenna Gain = -0.77dBi = -2.92dBd (0dBd=2.15dBi)

Cable Loss=0dB\* (provided by the applicant)

Limit: ERP≤38.45dBm



## LTE Band 12

Bandwidth	Modulation	RB size/		ted Average Power (dBm	•		ERP(dBm)	
(MHz)		RB Offset	Low	Mid	High	Low	Mid	High
		RB1#0	20.98	20.99	20.88	18.00	18.01	17.90
		RB1#3	20.75	20.77	20.73	17.77	17.79	17.75
		RB1#5	20.84	20.76	20.92	17.86	17.78	17.94
	QPSK	RB3#0	19.99	19.70	19.95	17.01	16.72	16.97
		RB3#3	19.87	19.88	20.01	16.89	16.90	17.03
		RB6#0	18.82	18.51	18.55	15.84	15.53	15.57
1.4		RB1#0	19.63	19.58	19.69	16.65	16.60	16.71
		RB1#3	19.57	19.00	19.25	16.59	16.02	16.27
	_	RB1#5	19.68	19.54	19.6	16.70	16.56	16.62
	16QAM	RB3#0	19.59	19.29	19.13	16.61	16.31	16.15
		RB3#3	19.22	19.21	19.27	16.24	16.23	16.29
		RB5#0	18.52	18.31	18.9	15.54	15.33	15.92
		RB1#1	20.89	20.65	20.99	17.91	17.67	18.01
		RB1#4	20.63	20.60	20.57	17.65	17.62	17.59
		RB1#6	20.71	20.70	20.64	17.73	17.72	17.66
	QPSK	RB3#1	19.61	19.63	19.8	16.63	16.65	16.82
		RB3#4	20.04	19.86	20.07	17.06	16.88	17.09
		RB6#1	18.43	18.32	18.22	15.45	15.34	15.24
3.0		RB1#1	19.59	19.20	19.62	16.61	16.22	16.64
		RB1#4	19.42	19.01	19.58	16.44	16.03	16.60
		RB1#6	19.63	19.11	19.92	16.65	16.13	16.94
	16QAM	RB3#1	19.17	19.01	19.22	16.19	16.03	16.24
		RB3#4	19.21	19.24	19.38	16.23	16.26	16.40
		RB5#1	18.92	18.04	18.64	15.94	15.06	15.66
		RB1#0	20.65	20.61	20.94	17.67	17.63	17.96
		RB1#3	20.53	20.55	21.00	17.55	17.57	18.02
	0.0014	RB1#5	20.81	20.42	20.43	17.83	17.44	17.45
	QPSK	RB3#0	19.83	19.40	19.76	16.85	16.42	16.78
		RB3#3	19.81	19.32	19.66	16.83	16.34	16.68
5.0		RB6#0	19.34	19.06	19.37	16.36	16.08	16.39
		RB1#0	20.72	20.18	20.64	17.74	17.20	17.66
		RB1#3	20.89	20.04	20.75	17.91	17.06	17.77
	16QAM	RB1#5	20.97	20.32	20.42	17.99	17.34	17.44
		RB3#0	19.72	19.35	19.64	16.74	16.37	16.66
		RB3#3	19.74	19.45	19.76	16.76	16.47	16.78



		RB5#0	19.04	18.92	18.91	16.06	15.94	15.93
		RB1#1	20.66	20.58	20.89	17.68	17.60	17.91
		RB1#4	20.71	20.24	20.49	17.73	17.26	17.51
		RB1#6	20.28	20.16	20.73	17.30	17.18	17.75
	QPSK	RB3#1	20.42	20.46	20.69	17.44	17.48	17.71
		RB3#4	20.46	20.20	20.38	17.48	17.22	17.40
		RB6#1	20.44	20.09	20.43	17.46	17.11	17.45
10.0		RB1#1	20.94	20.34	20.72	17.96	17.36	17.74
		RB1#4	20.42	20.10	20.38	17.44	17.12	17.40
		RB1#6	20.52	20.47	20.57	17.54	17.49	17.59
	16QAM	RB3#1	20.63	20.24	20.87	17.65	17.26	17.89
		RB3#4	20.55	20.23	20.11	17.57	17.25	17.13
		RB5#1	20.38	20.24	20.47	17.40	17.26	17.49

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

For Band12: Antenna Gain = -0.83dBi = -2.98dBd (0dBd=2.15dBi)

Cable Loss=0dB\* (provided by the applicant)

Limit: ERP≤34.77dBm



## LTE Band 13:

Bandwidt h	Modulatio			ed Averag ower (dBn	•		ERP(dBm)	
(MHz)	"	RB Offset	Low	Mid	High	Low	Mid	High
		RB1#0	20.56	20.60	21.05	17.52	17.56	18.01
		RB1#3	20.54	20.55	20.90	17.50	17.51	17.86
	QPSK	RB1#5	20.81	20.53	20.54	17.77	17.49	17.50
	QP3N	RB3#0	19.73	19.50	19.65	16.69	16.46	16.61
		RB3#3	19.92	19.21	19.57	16.88	16.17	16.53
5.0		RB6#0	19.44	19.16	19.27	16.40	16.12	16.23
5.0		RB1#0	20.81	20.08	20.73	17.77	17.04	17.69
		RB1#3	20.79	20.03	20.65	17.75	16.99	17.61
	16QAM	RB1#5	20.87	20.21	20.53	17.83	17.17	17.49
		RB3#0	19.61	19.24	19.63	16.57	16.20	16.59
		RB3#3	19.73	19.54	19.85	16.69	16.50	16.81
		RB5#0	18.93	18.82	18.80	15.89	15.78	15.76
		RB1#1	/	20.69	/	/	17.65	/
		RB1#4	/	20.33	/	/	17.29	/
	ODCK	RB1#6	/	20.27	/	/	17.23	/
	QPSK	RB3#1	/	20.37	/	/	17.33	/
		RB3#4	/	20.30	/	/	17.26	/
10.0		RB6#1	/	20.19	/	/	17.15	/
10.0		RB1#1	/	20.24	/	/	17.20	/
		RB1#4	/	20.11	/	/	17.07	/
	160414	RB1#6	/	20.58	/	/	17.54	/
	16QAM	RB3#1	/	20.13	/	/	17.09	/
		RB3#4	/	20.14	/	/	17.10	/
		RB5#1	/	20.25	/	/	17.21	/

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

For Band 13: Antenna Gain = -0.89dBi = -3.04dBd (0dBd=2.15dBi)

Cable Loss=0dB\* (provided by the applicant)

Limit: ERP≤34.77dBm



# 3.3.2 Peak-to-average ratio (PAR)

## LTE Band 2 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result	
QPSK	9.23	9.39	10.26	13	Pass	
(1RB Size)	0.20	0.00	. 0.20	. •		
QPSK	6.38	8.33	6.92	13	Pass	
(6RB Size)	0.30	0.33	0.92	13	F a 5 5	
16QAM	7.05	6.20	5.22	40	Door	
(1RB Size)	7.85	6.28	5.22	13	Pass	
16QAM	7.85	8.14	9.17	13	Pass	
(5RB Size)	7.00	0.14	9.17	13	rass	

### LTE Band 4 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result	
QPSK	4.97	5.13	5.83	13	Pass	
(1RB Size)	4.97	3.13	3.03	13	F a55	
QPSK	5.71	7.88	8.75	13	Pass	
(6RB Size)	3.71	7.00	0.75	13	r ass	
16QAM	6.41	7.28	7.15	42	Door	
(1RB Size)	0.41	7.20	7.15	13	Pass	
16QAM	6.83	8.69	7.05	13	Pass	
(5RB Size)	6.63	6.09	7.05	13	Fd55	

### LTE Band 5 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	8.21	4.46	5.77	13	Pass
QPSK (6RB Size)	5.58	7.18	5.22	13	Pass
16QAM (1RB Size)	9.17	7.66	6.79	13	Pass
16QAM (5RB Size)	5.80	5.38	9.46	13	Pass



### LTE Band 12 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result	
QPSK	6.47	6.83	8.91	13	Pass	
(1RB Size)	0.47	0.00	0.51	10	1 433	
QPSK	8.40	8.69	8.40	13	Pass	
(6RB Size)	0.40	6.09	0.40	13	F a 5 5	
16QAM	0.04	0.44	0.05	40	D	
(1RB Size)	8.04	8.14	8.65	13	Pass	
16QAM	7.24	0.44	7.05	12	Door	
(5RB Size)	7.24	8.11	7.85	13	Pass	

## LTE Band 13 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK	/	8.78	1	13	Pass
(1RB Size)		0.70	7	13	F 055
QPSK	/	6.67	1	13	Pass
(6RB Size)		0.07	/	13	г аээ 
16QAM	,	4.90	1	13	Door
(1RB Size)	/	4.90	,	13	Pass
16QAM	,	7.85	1	13	Pass
(5RB Size)	/	7.00	/	13	rass



## 3.3.3 26dB and 99% Bandwidth

### LTE Band 2:

		Low channel		Middle	channel	High channel	
Bandwidth	Modulation	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.111	1.313	1.099	1.296	1.094	1.284
1.4 IVITZ	16QAM	0.937	1.144	0.937	1.139	0.942	1.228
3 MHz	QPSK	1.106	1.288	1.116	1.298	1.116	1.310
3 IVITZ	16QAM	0.942	1.154	0.948	1.142	0.948	1.154
5 MHz	QPSK	1.120	1.332	1.120	1.333	1.120	1.325
3 IVII 12	16QAM	0.960	1.143	0.960	1.188	0.940	1.164
10 MHz	QPSK	1.120	1.314	1.120	1.327	1.120	1.314
10 MHZ	16QAM	0.960	1.177	0.960	1.247	0.960	1.154
15 MHz	QPSK	1.080	1.348	1.140	1.394	1.080	1.298
10 IVIDZ	16QAM	0.960	1.204	0.960	1.202	1.020	1.154
20 MHz	QPSK	1.120	1.282	1.200	1.410	1.120	1.282
ZU IVITIZ	16QAM	1.040	1.202	1.040	1.282	0.960	1.218

### LTE Band 4:

		Low c	hannel	Middle	channel	High channel		
Bandwidth	Modulation	OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW	
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	
1 4 MU-	QPSK	1.098	1.284	1.104	1.320	1.098	1.284	
1.4 MHz	16QAM	0.942	1.224	0.942	1.140	0.942	1.224	
2 MH=	QPSK	1.116	1.308	1.116	1.320	1.092	1.296	
3 MHz	16QAM	0.948	1.152	0.948	1.152	0.948	1.248	
E MU	QPSK	1.100	1.340	1.120	1.320	1.100	1.320	
5 MHz	16QAM	0.940	1.140	0.960	1.180	0.940	1.140	
10 MH=	QPSK	1.120	1.320	1.120	1.320	1.120	1.320	
10 MHz	16QAM	0.960	1.200	0.960	1.160	0.960	1.120	
15 MU¬	QPSK	1.080	1.320	1.140	1.440	1.140	1.380	
15 MHz	16QAM	0.900	1.140	0.960	1.200	0.960	1.200	
20 MH~	QPSK	1.200	1.360	1.120	1.360	1.120	1.360	
20 MHz	16QAM	0.960	1.200	1.040	1.200	0.960	1.200	

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### LTE Band 5:

		Low channel		Middle	channel	High channel		
Bandwidth	Modulation	OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW	
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	
1 4 MU-	QPSK	1.099	1.282	1.113	1.316	1.106	1.307	
1.4 MHz	16QAM	0.945	1.238	0.938	1.142	0.931	1.140	
3 MHz	QPSK	1.116	1.308	1.116	1.300	1.104	1.288	
SIVITZ	16QAM	0.948	1.143	0.936	1.144	0.948	1.250	
5 MHz	QPSK	1.120	1.310	1.120	1.314	1.100	1.330	
3 MILZ	16QAM	0.960	1.202	0.960	1.174	0.940	1.164	
10 MHz	QPSK	1.120	1.332	1.120	1.319	1.120	1.327	
I U IVIMZ	16QAM	0.960	1.236	0.960	1.223	0.960	1.158	

#### LTE Band 12:

		Low channel		Middle channel		High channel	
Bandwidth	Modulation	OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
4 4 MU-	QPSK	1.098	1.302	1.092	1.296	1.098	1.284
1.4 MHz	16QAM	0.930	1.134	0.942	1.140	0.936	1.224
3 MHz	QPSK	1.116	1.344	1.116	1.320	1.092	1.284
3 IVITZ	16QAM	0.936	1.152	0.948	1.152	0.948	1.224
5 MHz	QPSK	1.080	1.320	1.120	1.320	1.100	1.320
O IVITZ	16QAM	0.940	1.140	0.960	1.180	0.960	1.140
10 MHz	QPSK	1.120	1.360	1.120	1.320	1.080	1.320
I O IVITZ	16QAM	0.960	1.120	0.960	1.200	0.960	1.160

### LTE Band 13:

		Low channel		Middle channel		High channel	
Bandwidth	Modulation	OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
5 MHz	QPSK	1.100	1.320	1.120	1.320	1.120	1.300
3 IVITZ	16QAM	0.940	1.180	0.940	1.140	0.940	1.160
10 MU-	QPSK	/	/	1.120	1.400	/	/
10 MHz	16QAM	/	/	0.960	1.160	/	/

Note: Test Plots of 26dB and 99% bandwidth please refer Appendix A



# 3.3.4 Conducted Spurious Emissions

Band	Result	Limit	Verdict
LTE B2	Refer test plot	Refer test plot	Pass
LTE B4	Refer test plot	Refer test plot	Pass
LTE B5	Refer test plot	Refer test plot	Pass
LTE B12	Refer test plot	Refer test plot	Pass
LTE B13	Refer test plot	Refer test plot	Pass

Note: Test Plots of Conducted Spurious Emissions please refer Appendix B

# 3.3.5 Out of band emission, Band Edge

Band	Result	Limit	Verdict
LTE B2	Refer test plot	Refer test plot	Pass
LTE B4	Refer test plot	Refer test plot	Pass
LTE B5	Refer test plot	Refer test plot	Pass
LTE B12	Refer test plot	Refer test plot	Pass
LTE B13	Refer test plot	Refer test plot	Pass

Note: Test Plots of Band Edge please refer Appendix C

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## 3.3.6 FREQUENCY STABILITY

QPSK:

### Band 2:

1.4	1.4 MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>L</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)		
-30		1850.150	1850	1909.853	1910		
-20		1850.143	1850	1909.843	1910		
-10		1850.176	1850	1909.840	1910		
0		1850.181	1850	1909.852	1910		
10	3.70	1850.139	1850	1909.838	1910		
20		1850.145	1850	1909.844	1910		
30		1850.164	1850	1909.862	1910		
40		1850.153	1850	1909.851	1910		
50		1850.142	1850	1909.849	1910		
20	3.15	1850.160	1850	1909.832	1910		
20	4.26	1850.171	1850	1909.859	1910		

## Band 4:

1.4	1.4 MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge							
Temperature	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>L</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		1710.184	1710	1754.820	1755			
-20		1710.189	1710	1754.833	1755			
-10		1710.179	1710	1754.830	1755			
0		1710.140	1710	1754.811	1755			
10	3.70	1710.158	1710	1754.809	1755			
20		1710.148	1710	1754.846	1755			
30		1710.174	1710	1754.810	1755			
40		1710.170	1710	1754.821	1755			
50		1710.181	1710	1754.820	1755			
20	3.15	1710.169	1710	1754.843	1755			
20	4.26	1710.151	1710	1754.830	1755			

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## Band 5:

	10.0 MHz Middle Channel, f <sub>o</sub> =836.5MHz							
Temperature (°C)	Voltage Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
-30		-1.64	-0.002	2.5				
-20		-2.12	-0.003	2.5				
-10		-1.99	-0.002	2.5				
0		-2.68	-0.003	2.5				
10	3.70	-2.32	-0.003	2.5				
20		-1.87	-0.002	2.5				
30		-1.93	-0.002	2.5				
40		-2.05	-0.002	2.5				
50		-2.04	-0.002	2.5				
20	3.15	-1.78	-0.002	2.5				
20	4.26	-1.67	-0.002	2.5				

## **Band 12:**

1.4	1.4 MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge							
Temperature	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>∟</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		699.133	699	715.839	716			
-20		699.154	699	715.851	716			
-10		699.175	699	715.848	716			
0		699.133	699	715.826	716			
10	3.70	699.142	699	715.855	716			
20		699.154	699	715.846	716			
30		699.159	699	715.824	716			
40		699.120	699	715.860	716			
50		699.162	699	715.872	716			
20	3.15	699.129	699	715.844	716			
20	4.26	699.136	699	715.827	716			



## **Band 13:**

51	5MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge							
Temperature	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>L</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		777.249	777	786.751	787			
-20		777.257	777	786.749	787			
-10		777.230	777	786.771	787			
0		777.261	777	786.735	787			
10	3.70	777.239	777	786.740	787			
20		777.240	777	786.760	787			
30		777.272	777	786.759	787			
40		777.260	777	786.726	787			
50		777.251	777	786.768	787			
20	3.15	777.223	777	786.715	787			
20	4.26	777.258	777	786.723	787			

## 16QAM:

## Band 2:

1.4	1.4 MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>L</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)		
-30		1850.179	1850	1909.656	1910		
-20		1850.164	1850	1909.646	1910		
-10		1850.131	1850	1909.658	1910		
0		1850.149	1850	1909.657	1910		
10	3.70	1850.150	1850	1909.646	1910		
20		1850.139	1850	1909.681	1910		
30		1850.140	1850	1909.657	1910		
40		1850.173	1850	1909.647	1910		
50		1850.152	1850	1909.646	1910		
20	3.15	1850.169	1850	1909.648	1910		
20	4.26	1850.171	1850	1909.646	1910		



## Band 4:

1.4	1.4 MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge							
Temperature	Power Supplied (V <sub>DC</sub> )	F∟ (MHz)	F <sub>H</sub> (MHz)	F <sub>∟</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		1710.172	1710	1754.880	1755			
-20		1710.132	1710	1754.854	1755			
-10		1710.161	1710	1754.845	1755			
0		1710.170	1710	1754.836	1755			
10	3.70	1710.189	1710	1754.829	1755			
20		1710.136	1710	1754.858	1755			
30		1710.134	1710	1754.864	1755			
40		1710.190	1710	1754.872	1755			
50		1710.158	1710	1754.828	1755			
20	3.15	1710.176	1710	1754.811	1755			
20	4.26	1710.183	1710	1754.825	1755			

### Band 5:

	10.0 MHz Middle Channel, f <sub>o</sub> =836.5MHz							
Temperature (℃)	Voltage Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)				
-30		-3.42	-0.004	2.5				
-20		-2.31	-0.003	2.5				
-10		-2.62	-0.003	2.5				
0		-1.99	-0.002	2.5				
10	3.70	-2.09	-0.002	2.5				
20		-2.64	-0.003	2.5				
30		-2.71	-0.003	2.5				
40		-2.62	-0.003	2.5				
50		-2.57	-0.003	2.5				
20	3.15	-2.91	-0.003	2.5				
20	4.26	-2.82	-0.003	2.5				



## **Band 12:**

10MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge								
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	F <sub>L</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>∟</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		699.117	699	715.859	716			
-20		699.129	699	715.878	716			
-10		699.155	699	715.849	716			
0		699.151	699	715.881	716			
10	3.70	699.171	699	715.853	716			
20		699.142	699	715.852	716			
30		699.136	699	715.862	716			
40		699.121	699	715.873	716			
50		699.146	699	715.865	716			
20	3.15	699.162	699	715.892	716			
20	4.26	699.172	699	715.844	716			

### **Band 13:**

5MHz Test Channel: Lowest for Lower Edge, Highest for Upper Edge								
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	F <sub>∟</sub> (MHz)	F <sub>H</sub> (MHz)	F <sub>∟</sub> Limit (MHz)	F <sub>H</sub> Limit (MHz)			
-30		777.258	777	786.770	787			
-20		777.236	777	786.749	787			
-10		777.211	777	786.797	787			
0		777.243	777	786.782	787			
10	3.70	777.200	777	786.759	787			
20		777.220	777	786.760	787			
30		777.204	777	786.735	787			
40		777.258	777	786.782	787			
50		777.229	777	786.735	787			
20	3.15	777.256	777	786.706	787			
20	4.26	777.272	777	786.734	787			





# 3.4 Radiated Spurious emission Test Data

Test Date:	2024-06-11	Test By:	Bard Huang	
Environment condition:	Temperature: 23°C; Relative H	umidity:65%; ATM Pres	ssure: 100.2kPa	

Frequency (MHz)	Reading level (dBµV)	Polar (H/V)	Correcte d Factor (dB/m)	Corrected Amplitude (dBµV/m)	EIRP CF	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Remark	
	LTE Band 2 (30MHz-20GHz)									
	Low Channel(1850.7MHz)									
3701.400	59.60	horizontal	-2.57	57.03	-95.2	-38.17	-13	-25.17	Peak	
3701.400	58.25	vertical	-2.57	55.68	-95.2	-39.52	-13	-26.52	Peak	
	I	1	Midd	lle Channel(	1880MHz)	, ,		ı	I	
3760.000	61.38	horizontal	-2.69	58.69	-95.2	-36.51	-13	-23.51	Peak	
3760.000	61.16	vertical	-2.69	58.47	-95.2	-36.73	-13	-23.73	Peak	
	I	1	High	Channel(19	909.3MHz)	, ,		ı	I	
3818.600	66.15	horizontal	-2.78	63.37	-95.2	-31.83	-13	-18.83	Peak	
3818.600	63.95	vertical	-2.78	61.17	-95.2	-34.03	-13	-21.03	Peak	
			LTE E	Band 4 (30M	Hz-20GHz	<u>z)</u>				
	<u> </u>	T	Low	Channel(17	10.7MHz)	1 1		ı		
3421.400	58.50	horizontal	-2.63	55.87	-95.2	-39.33	-13	-26.33	Peak	
3421.400	59.19	vertical	-2.63	56.56	-95.2	-38.64	-13	-25.64	Peak	
	Г	T	Middl	e Channel(1	732.5MHz	<u>.</u> )		1		
3465.000	58.05	horizontal	-2.68	55.37	-95.2	-39.83	-13	-26.83	Peak	
3465.000	62.21	vertical	-2.68	59.53	-95.2	-35.67	-13	-22.67	Peak	
	Г	T	High	Channel(17	'54.3MHz)	T T		1		
3508.600	66.75	horizontal	-2.71	64.04	-95.2	-31.16	-13	-18.16	Peak	
3508.600	64.82	vertical	-2.71	62.11	-95.2	-33.09	-13	-20.09	Peak	
LTE Band 5 (30MHz-10GHz)										
Low Channel(824.7MHz)										
1649.400	65.91	horizontal	-3.32	62.59	-95.2	-32.61	-13	-19.61	Peak	
1649.400	62.56	vertical	-3.32	59.24	-95.2	-35.96	-13	-22.96	Peak	
			Midd	le Channel(8	336.5MHz)	)				
1673.000	62.76	horizontal	-3.19	59.57	-95.2	-35.63	-13	-22.63	Peak	

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1									
1673.000	63.67	vertical	-3.19	60.48	-95.2	-34.72	-13	-21.72	Peak
High Channel(848.3MHz)									
1696.600	68.15	horizontal	-3.07	65.08	-95.2	-30.12	-13	-17.12	Peak
1696.600	66.57	vertical	-3.07	63.5	-95.2	-31.7	-13	-18.7	Peak
			LTE B	and 12 (30N	//Hz-10GHz	z)			
			Low	/ Channel(6	99.7MHz)	T		T	
1399.400	65.09	horizontal	-4.66	60.43	-95.2	-34.77	-13	-21.77	Peak
1399.400	61.34	vertical	-4.66	56.68	-95.2	-38.52	-13	-25.52	Peak
			Midd	le Channel(	707.5MHz)				
1415.000	48.29	horizontal	-4.58	43.71	-95.2	-51.49	-13	-38.49	Peak
1415.000	49.12	vertical	-4.58	44.54	-95.2	-50.66	-13	-37.66	Peak
			High	n Channel(7	15.3MHz)				
1430.600	48.09	horizontal	-4.51	43.58	-95.2	-51.62	-13	-38.62	Peak
1430.600	48.34	vertical	-4.51	43.83	-95.2	-51.37	-13	-38.37	Peak
			LTE B	and 13 (30N	/lHz-10GHz	z)			
			Low	Channel(7	79.5MHz)	T		1	
1559.000	58.29	horizontal	-3.99	54.3	-95.2	-40.9	-40	-0.9	Peak
1559.000	56.09	vertical	-3.99	52.1	-95.2	-43.1	-40	-3.1	Peak
Middle Channel(782MHz)									
1564.000	57.93	horizontal	-3.96	53.97	-95.2	-41.23	-40	-1.23	Peak
1564.000	55.31	vertical	-3.96	51.35	-95.2	-43.85	-40	-3.85	Peak
High Channel(784.5MHz)									
1569.000	58.36	horizontal	-3.92	54.44	-95.2	-40.76	-40	-0.76	Peak
1569.000	55.73	vertical	-3.92	51.81	-95.2	-43.39	-40	-3.39	Peak

#### Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Result - Limit

According to ANSI C63.26-2.15 section 5.2.7:

EIRP (dBm) = E (dB $\mu$ V/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

Test was performed on 3meters distance, so

Result = Corrected Amplitude + 20log(3) - 104.8

= Corrected Amplitude - 95.2

The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.



# 4 Test Setup Photo

Please refer to the attachment 2405T48460EC Test Setup photo.



# 5 E.U.T Photo

Please refer to the attachment 2405T48460E External photo and 2405T48460E Internal photo.

---End of Report---