

FCC Test Report

Report No.: 2405T53345EB

Applicant: Prometheus Group LLC

Address: 2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA
35243 USA.

Product Name: HUNTING CAMERA

Product Model: BTC-VPHDL

Multiple Models: N/A

Trade Mark: BROWNING

FCC ID: 2ALGTBTC-VPHDL

Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27, 90S

Test Date: 2024-06-07 to 2024-06-28

Test Result: Complied

Issue Date: 2024-07-01

Reviewed by:

Abel Chen

Approved by:

Jacob Kong

Abel Chen
Project Engineer

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Prepared by:

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Revision History

Version No.	Issued Date	Description
00	2024-07-01	Original

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1 General Information

1.1 Client Information

Applicant:	Prometheus Group LLC
Address:	2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA 35243 USA.
Manufacturer:	Prometheus Group LLC
Address:	2 Perimeter Park South. Suite 305E BIRMINGHAM ALABAMA 35243 USA.

1.2 Product Description of EUT

The EUT is HUNTING CAMERA that contains LTE radio, this report covers the full testing of the LTE radio.

Sample Serial number	2MBB-2 for RE test, 2MBB-3 RF conducted test (assigned by WATC)				
Sample Received Date	2024-06-04				
Sample Status	Good Condition				
Frequency Range	Band	TX Frequency (MHz)	RX Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain [#] (dBi)
Maximum Conducted Power	LTE B2	1850-1910	1930-1990	23.28	3.89
Antenna Gain	LTE B4	1710-1755	2110-2155	22.25	2.59
	LTE B5	824-849	869-894	23.43	2.29
	LTE B12	699-716	729-746	23.41	4.04
	LTE B13	777-787	746-756	23.00	3.59
	LTE B25	1850-1915	1930-1995	23.18	3.89
	LTE B26 (Part 90S)	814-824	859-869	23.74	2.29
	LTE B26 (Part 22H)	824-849	869-894	23.94	2.29
Modulation Technology	LTE: QPSK, 16QAM				
UE Category	LTE Cat-1				
Power Supply	DC 12V from battery or DC 12V from external power port				
Adapter Information	N/A				
Modification	Sample No Modification by the test lab				

1.3 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Emissions, Radiated	Below 30MHz	±2.78dB
	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.)		

1.4 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: ga@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.

1.5 Test Methodology

FCC CFR Title 47 Part 2, 22H, 24E, 27, 90S

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

2 Description of Measurement

2.1 Test Frequency of Low/Middle/High Channels

Band	Bandwidth (MHz)	Low Channel (MHz)	Middle Channel (MHz)	High Channel (MHz)
LTE B2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855	1880	1905
	15	1857.5	1880	1902.5
	20	1860	1880	1900
LTE B4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715	1732.5	1750
	15	1717.5	1732.5	1747.5
	20	1720	1732.5	1745
LTE B5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
LTE B12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704	707.5	711
LTE B13	5	779.5	782	784.5
	10	/	782	/
LTE B25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855	1882.5	1910
	15	1857.5	1882.5	1907.5
	20	1860	1882.5	1905
LTE B26 (Part 90S)	1.4	814.7	819	823.3
	3	815.5	819	822.5
	5	816.5	819	821.5
	10	/	819	/
	15	821.5	/	/
LTE B26 (Part 22H/90S)	1.4	/	/	824
	3	/	/	824
	5	/	/	824
	10	/	/	824
	15	/	/	824
LTE B26 (Part 22H)	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
	15	831.5	836.5	841.5

Note: the channel in **Bold** is CROSS-RULE channel

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	M	H
RF Output Power ERP/EIRP	2	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	4	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	5	√	√	√	√	-	-	√	√	√	√	√	√	√	√
	12	√	√	√	√	-	-	√	√	√	√	√	√	√	√
	13	-	-	√	√	-	-	√	√	√	√	√	√	√	√
	25	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	26	√	√	√	√	√	-	√	√	√	√	√	√	√	√
Peak-to-Average Ratio	2				√			√	√	√		√	√	√	√
	4				√			√	√	√		√	√	√	√
	5				√	-	-	√	√	√		√	√	√	√
	12				√	-	-	√	√	√		√	√	√	√
	13	-	-		√	-	-	√	√	√		√	√	√	√
	25				√			√	√	√		√	√	√	√
	26				√		-	√	√	√		√	√	√	√
26dB and 99% Bandwidth	2	√	√	√	√	√	√	√	√			√	√	√	√
	4	√	√	√	√	√	√	√	√			√	√	√	√
	5	√	√	√	√	-	-	√	√			√	√	√	√
	12	√	√	√	√	-	-	√	√			√	√	√	√
	13	-	-	√	√	-	-	√	√			√	√	√	√
	25	√	√	√	√	√	√	√	√			√	√	√	√
	26	√	√	√	√	√	-	√	√			√	√	√	√
Band Edge	2	√	√	√	√	√	√	√	√	√		√	√		√
	4	√	√	√	√	√	√	√	√	√		√	√		√
	5	√	√	√	√	-	-	√	√	√		√	√		√
	12	√	√	√	√	-	-	√	√	√		√	√		√
	13	-	-	√	√	-	-	√	√	√		√	√		√
	25	√	√	√	√	√	√	√	√	√		√	√		√
	26	√	√	√	√	√	-	√	√	√		√	√		√
Conducted Spurious Emission	2	√	√	√	√	√	√	√		√			√	√	√
	4	√	√	√	√	√	√	√		√			√	√	√
	5	√	√	√	√	-	-	√		√			√	√	√
	12	√	√	√	√	-	-	√		√			√	√	√
	13	-	-	√	√	-	-	√		√			√	√	√
	25	√	√	√	√	√	√	√		√			√	√	√
	26	√	√	√	√	√	-	√		√			√	√	√
Frequency Stability	2	√						√	√			√	√		√
	4	√						√	√			√	√		√
	5				√	-	-	√	√			√		√	
	12	√				-	-	√	√			√	√		√
	13	-	-	√		-	-	√	√			√	√		√
	25	√						√	√			√	√		√
	26				√		-	√	√			√		√	
Radiated Spurious Emission	2	√						√		√			√	√	√
	4	√						√		√			√	√	√
	5	√				-	-	√		√			√	√	√
	12	√				-	-	√		√			√	√	√
	13	-	-	√		-	-	√		√			√	√	√
	25	√						√		√			√	√	√
	26	√					-	√		√			√	√	√

Note:
1. "√" 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.

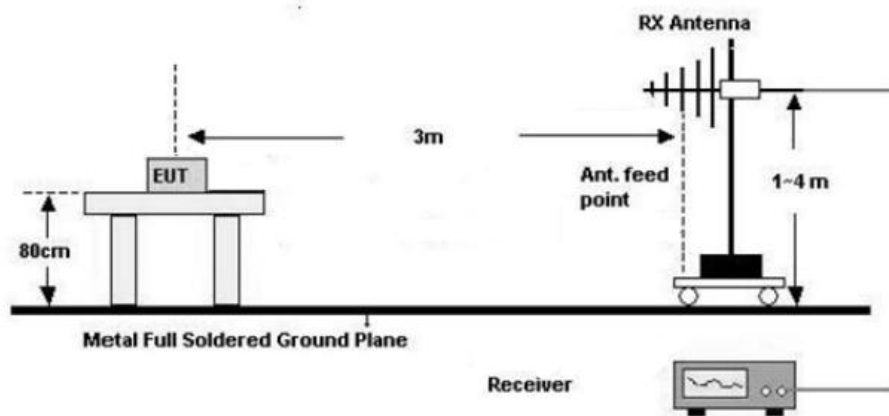
2.3 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
unknown	DC 12V adapter	SAW15A-120-1000UD	unknown

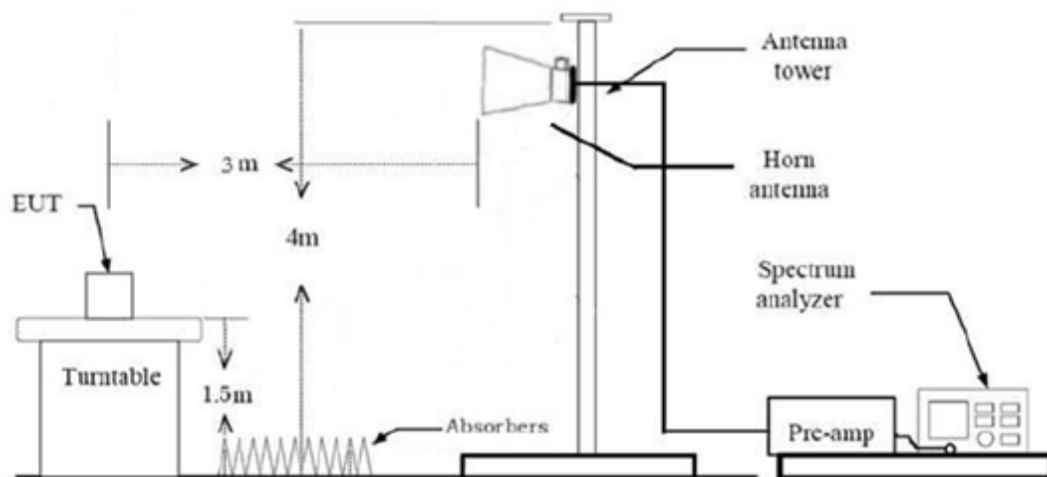
2.4 Test Setup

1) Radiated emission measurement:

30MHz-1GHz (3m SAC)

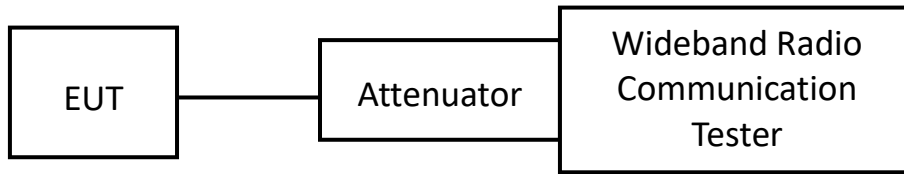


Above 1GHz (3m FAC)

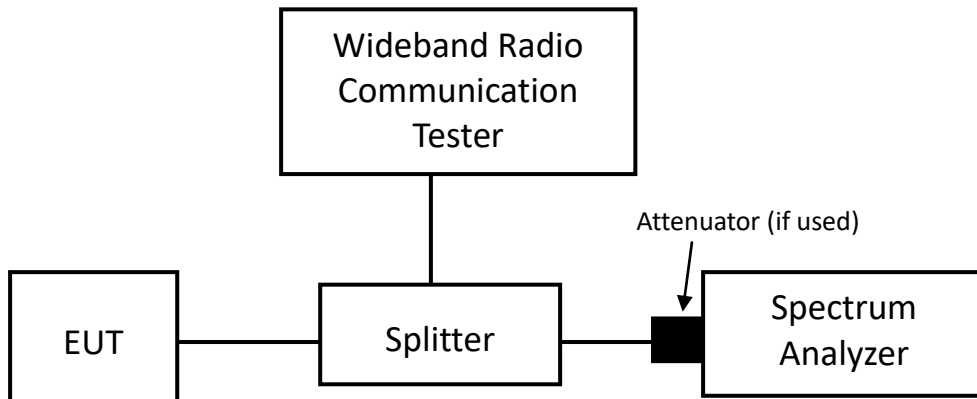


2) RF Conducted Test

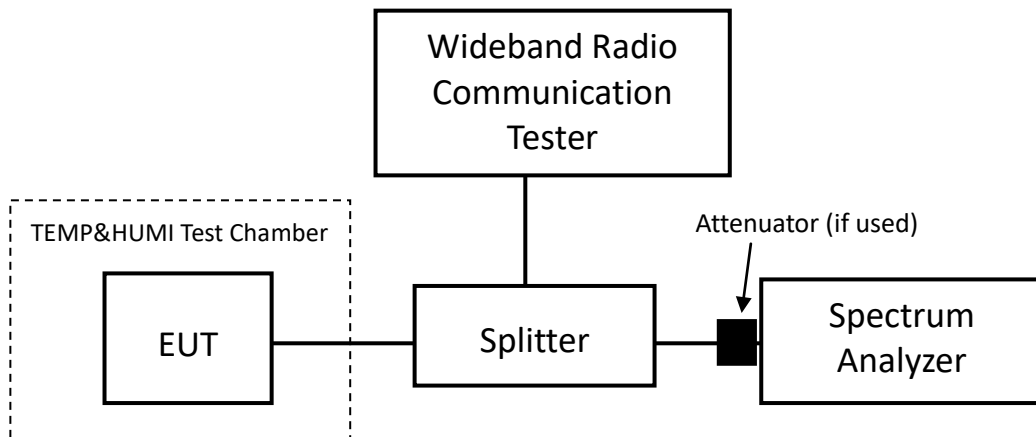
For RF Output Power test



For Bandwidth/Band edge/ PAR/Conducted spurious emissions Test



For Frequency Stability test



2.5 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 8dB (including 6.0 dB Splitter and 2.0 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 2.0dB 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.

2.6 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

2.7 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
Radiated Emission 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	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
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
ROHDE& SCHWARZ	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	116218	2023/9/12	2024/9/11
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; §90.635	RF Output Power	Compliance
FCC§ 2.1047	Modulation Characteristics	Compliance
FCC§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53; §90.209	26dB and 99% Bandwidth	Compliance
FCC§ 2.1051; § 22.917; § 24.238; §27.53; §90.691	Conducted Spurious Emissions	Compliance
FCC§ 22.917; § 24.238; §27.53; §90.691	Out of band emission, Band Edge	Compliance
FCC§ 2.1055; § 22.355; § 24.235; §27.54; §90.213	Frequency stability	Compliance
FCC§ 2.1053; § 22.917; § 24.238; §27.53; §90.691	Radiated Spurious Emissions	Compliance

3.2 Limit

Test items	Limit																																
RF Output Power	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: (1) A Commission-approved average power technique (see FCC Laboratory's Knowledge Database); or (2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.																																
Unwanted Emissions (Out of band emission and spurious)	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: (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 above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz																																
Frequency stability	FCC §22.355: Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section. <table><caption>Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services</caption><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table>	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	5.0	n/a	n/a	929 to 960	1.5	n/a	n/a	2110 to 2220	10.0	n/a	n/a
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	5.0	n/a	n/a																														
929 to 960	1.5	n/a	n/a																														
2110 to 2220	10.0	n/a	n/a																														

Test items	Limit
RF Output Power	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. (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.
Unwanted Emissions (Out of band emission and spurious)	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. (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.
Frequency stability	FCC §24.235: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test items	Limit
RF Output Power	FCC §27.50: (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. (ii) 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. (c)(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP. (c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP. (d)(4) 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. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications. (h) The following power limits shall apply in the BRS and EBS: (2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Unwanted Emissions (Out of band emission and spurious)	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. (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.
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	(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) <i>General protection levels.</i> 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 $43 + 10 \log_{10} (P)$ 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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.
Frequency stability	FCC §27.54: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test items	Limit
RF Output Power	FCC §90.635 (b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).
Unwanted Emissions (Out of band emission and spurious)	FCC §90.691 (a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.
Frequency stability	FCC §90.213 809-824 MHz band, 2.5ppm for 2W or less output power.

3.3 RF Conducted Test Data

Test Date:	2024-06-07~2024-06-28	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.3~23.7°C; Relative Humidity:55~60%; ATM Pressure: 100.3~101.1kPa		

3.3.1 RF Output Power&ERP/EIRP

LTE Band 2:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	23.09	23.19	23.15	25.98	26.08	26.04
		RB1#3	23.05	23.18	23.12	25.94	26.07	26.01
		RB1#5	23.28	23.15	23.05	26.17	26.04	25.94
		RB3#0	23.03	22.93	22.90	25.92	25.82	25.79
		RB3#3	22.97	22.97	22.99	25.86	25.86	25.88
		RB6#0	22.05	22.02	22.00	24.94	24.91	24.89
	16QAM	RB1#0	21.55	21.64	21.79	24.44	24.53	24.68
		RB1#3	21.85	21.79	21.87	24.74	24.68	24.76
		RB1#5	21.32	21.41	21.34	24.21	24.30	24.23
		RB3#0	22.12	22.10	22.19	25.01	24.99	25.08
		RB3#3	22.06	22.18	22.14	24.95	25.07	25.03
		RB6#0	21.09	21.00	20.97	23.98	23.89	23.86
3.0	QPSK	RB1#0	22.63	22.63	22.54	25.52	25.52	25.43
		RB1#8	22.39	22.58	22.53	25.28	25.47	25.42
		RB1#14	22.53	22.54	22.48	25.42	25.43	25.37
		RB6#0	21.76	21.81	21.67	24.65	24.70	24.56
		RB6#9	21.90	21.87	21.88	24.79	24.76	24.77
		RB15#0	21.94	21.96	22.00	24.83	24.85	24.89
	16QAM	RB1#0	21.83	21.79	21.84	24.72	24.68	24.73
		RB1#8	21.79	21.79	21.79	24.68	24.68	24.68
		RB1#14	21.73	21.73	21.74	24.62	24.62	24.63
		RB6#0	20.56	20.58	20.70	23.45	23.47	23.59
		RB6#9	20.58	20.55	20.57	23.47	23.44	23.46
		RB15#0	20.85	20.78	20.94	23.74	23.67	23.83
5.0	QPSK	RB1#0	22.75	22.85	22.84	25.64	25.74	25.73
		RB1#13	22.93	22.82	22.87	25.82	25.71	25.76

		RB1#24	22.62	22.65	22.70	25.51	25.54	25.59
		RB15#0	21.68	21.72	21.62	24.57	24.61	24.51
		RB15#10	21.80	21.76	21.81	24.69	24.65	24.70
		RB25#0	21.80	21.82	21.80	24.69	24.71	24.69
	16QAM	RB1#0	21.09	21.16	21.04	23.98	24.05	23.93
		RB1#13	20.98	20.96	20.97	23.87	23.85	23.86
		RB1#24	21.15	21.11	21.00	24.04	24.00	23.89
		RB15#0	20.61	20.69	20.73	23.50	23.58	23.62
		RB15#10	20.59	20.55	20.48	23.48	23.44	23.37
		RB25#0	20.87	20.78	20.88	23.76	23.67	23.77
10.0	QPSK	RB1#0	22.89	22.74	22.74	25.78	25.63	25.63
		RB1#25	22.78	22.70	22.64	25.67	25.59	25.53
		RB1#49	22.24	22.39	22.35	25.13	25.28	25.24
		RB25#0	21.37	21.48	21.58	24.26	24.37	24.47
		RB25#25	21.49	21.50	21.57	24.38	24.39	24.46
		RB50#0	21.58	21.47	21.40	24.47	24.36	24.29
	16QAM	RB1#0	21.84	21.91	21.84	24.73	24.80	24.73
		RB1#13	22.05	22.01	22.08	24.94	24.90	24.97
		RB1#26	21.54	21.67	21.79	24.43	24.56	24.68
		RB15#0	20.79	20.86	21.00	23.68	23.75	23.89
		RB15#12	20.63	20.56	20.54	23.52	23.45	23.43
		RB27#0	20.74	20.68	20.79	23.63	23.57	23.68
15.0	QPSK	RB1#0	22.17	22.27	22.26	25.06	25.16	25.15
		RB1#38	22.35	22.33	22.41	25.24	25.22	25.30
		RB1#74	22.50	22.47	22.48	25.39	25.36	25.37
		RB36#0	21.46	21.40	21.44	24.35	24.29	24.33
		RB36#39	21.40	21.38	21.47	24.29	24.27	24.36
		RB75#0	21.29	21.38	21.46	24.18	24.27	24.35
	16QAM	RB1#0	21.74	21.75	21.70	24.63	24.64	24.59
		RB1#13	21.80	21.76	21.78	24.69	24.65	24.67
		RB1#26	21.78	21.84	21.74	24.67	24.73	24.63
		RB15#0	21.22	21.41	21.40	24.11	24.30	24.29
		RB15#12	21.52	21.47	21.47	24.41	24.36	24.36
		RB27#0	20.71	20.71	20.75	23.60	23.60	23.64
20.0	QPSK	RB1#0	22.26	22.35	22.49	25.15	25.24	25.38
		RB1#50	22.49	22.46	22.45	25.38	25.35	25.34
		RB1#99	22.55	22.44	22.62	25.44	25.33	25.51
		RB50#0	21.38	21.29	21.32	24.27	24.18	24.21
		RB50#50	21.27	21.31	21.40	24.16	24.20	24.29
		RB100#0	21.33	21.30	21.20	24.22	24.19	24.09

	16QAM	RB1#0	21.92	21.87	21.82	24.81	24.76	24.71
		RB1#13	22.31	22.14	21.95	25.20	25.03	24.84
		RB1#26	21.99	21.95	21.91	24.88	24.84	24.80
		RB15#0	21.26	21.33	21.25	24.15	24.22	24.14
		RB15#12	21.47	21.38	21.39	24.36	24.27	24.28
		RB27#0	20.53	20.48	20.64	23.42	23.37	23.53
Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB) For Band2: Antenna Gain = 3.89dBi 1GHz-2GHz : Cable Loss=1.0dB*(provided by the applicant) Limit: EIRP≤33dBm								

LTE Band 4:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.25	22.24	22.15	23.84	23.83	23.74
		RB1#3	22.12	22.21	22.10	23.71	23.80	23.69
		RB1#5	22.20	22.19	22.21	23.79	23.78	23.80
		RB3#0	22.07	22.11	22.05	23.66	23.70	23.64
		RB3#3	22.07	22.14	22.20	23.66	23.73	23.79
		RB6#0	21.12	21.09	21.21	22.71	22.68	22.80
	16QAM	RB1#0	20.57	20.59	20.56	22.16	22.18	22.15
		RB1#3	21.00	20.93	20.94	22.59	22.52	22.53
		RB1#5	21.09	20.91	20.96	22.68	22.50	22.55
		RB3#0	20.81	20.67	20.67	22.40	22.26	22.26
		RB3#3	20.76	20.79	20.78	22.35	22.38	22.37
		RB6#0	20.15	20.04	20.13	21.74	21.63	21.72
3.0	QPSK	RB1#0	21.98	22.03	22.05	23.57	23.62	23.64
		RB1#8	22.11	22.11	22.19	23.70	23.70	23.78
		RB1#14	22.05	22.07	22.12	23.64	23.66	23.71
		RB6#0	20.95	21.08	20.95	22.54	22.67	22.54
		RB6#9	20.99	21.16	21.22	22.58	22.75	22.81
		RB15#0	21.28	21.12	21.10	22.87	22.71	22.69
	16QAM	RB1#0	21.36	21.40	21.44	22.95	22.99	23.03
		RB1#8	21.43	21.31	21.28	23.02	22.90	22.87
		RB1#14	21.34	21.46	21.40	22.93	23.05	22.99
		RB6#0	20.03	20.04	19.98	21.62	21.63	21.57
		RB6#9	20.32	20.36	20.27	21.91	21.95	21.86

		RB15#0	20.12	20.22	20.14	21.71	21.81	21.73
5.0	QPSK	RB1#0	22.08	22.02	22.10	23.67	23.61	23.69
		RB1#13	21.93	22.05	22.08	23.52	23.64	23.67
		RB1#24	22.04	22.16	22.19	23.63	23.75	23.78
		RB15#0	21.07	21.07	21.08	22.66	22.66	22.67
		RB15#10	21.02	21.15	21.16	22.61	22.74	22.75
		RB25#0	20.96	21.13	21.20	22.55	22.72	22.79
	16QAM	RB1#0	20.65	20.66	20.61	22.24	22.25	22.20
		RB1#13	20.85	20.77	20.64	22.44	22.36	22.23
		RB1#24	20.85	20.81	20.82	22.44	22.40	22.41
		RB15#0	20.19	20.14	20.19	21.78	21.73	21.78
		RB15#10	21.22	21.22	21.22	22.81	22.81	22.81
		RB25#0	20.31	20.31	20.20	21.90	21.90	21.79
10.0	QPSK	RB1#0	21.94	22.05	22.07	23.53	23.64	23.66
		RB1#25	22.04	22.10	22.01	23.63	23.69	23.60
		RB1#49	22.06	22.01	22.02	23.65	23.60	23.61
		RB25#0	21.19	21.17	21.19	22.78	22.76	22.78
		RB25#25	21.13	21.15	21.11	22.72	22.74	22.70
		RB50#0	21.23	21.19	21.29	22.82	22.78	22.88
	16QAM	RB1#0	20.91	20.81	20.70	22.50	22.40	22.29
		RB1#13	21.14	20.98	20.98	22.73	22.57	22.57
		RB1#26	21.26	21.29	21.36	22.85	22.88	22.95
		RB15#0	20.26	20.15	20.18	21.85	21.74	21.77
		RB15#12	20.20	20.12	19.99	21.79	21.71	21.58
		RB27#0	20.13	20.16	20.03	21.72	21.75	21.62
15.0	QPSK	RB1#0	22.10	22.11	22.22	23.69	23.70	23.81
		RB1#38	22.16	22.15	22.06	23.75	23.74	23.65
		RB1#74	22.08	22.05	22.09	23.67	23.64	23.68
		RB36#0	21.01	21.04	21.03	22.60	22.63	22.62
		RB36#39	21.16	21.09	21.00	22.75	22.68	22.59
		RB75#0	21.04	21.16	21.23	22.63	22.75	22.82
	16QAM	RB1#0	21.47	21.42	21.39	23.06	23.01	22.98
		RB1#13	21.42	21.33	21.26	23.01	22.92	22.85
		RB1#26	21.06	21.21	21.27	22.65	22.80	22.86
		RB15#0	21.23	21.13	21.07	22.82	22.72	22.66
		RB15#12	21.06	21.04	20.99	22.65	22.63	22.58
		RB27#0	20.12	20.07	19.95	21.71	21.66	21.54
20.0	QPSK	RB1#0	21.79	21.80	21.82	23.38	23.39	23.41
		RB1#50	21.86	21.71	21.65	23.45	23.30	23.24
		RB1#99	21.46	21.45	21.43	23.05	23.04	23.02

		RB50#0	20.83	20.87	20.80	22.42	22.46	22.39
		RB50#50	21.03	20.98	21.05	22.62	22.57	22.64
		RB100#0	21.19	21.03	21.14	22.78	22.62	22.73
	16QAM	RB1#0	21.10	21.11	20.95	22.69	22.70	22.54
		RB1#13	21.06	21.03	20.87	22.65	22.62	22.46
		RB1#26	20.93	20.91	20.89	22.52	22.50	22.48
		RB15#0	20.70	20.78	20.78	22.29	22.37	22.37
		RB15#12	20.85	20.89	20.90	22.44	22.48	22.49
		RB27#0	20.01	20.05	20.02	21.60	21.64	21.61

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

For Band4: Antenna Gain = 2.59dBi

1GHz-2GHz : Cable Loss=1.0dB*(provided by the applicant)

Limit: EIRP≤30dBm

LTE Band 5:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	23.09	23.18	23.19	22.63	22.72	22.73
		RB1#3	23.10	23.17	23.16	22.64	22.71	22.70
		RB1#5	23.23	23.22	23.24	22.77	22.76	22.78
		RB3#0	23.21	23.33	23.43	22.75	22.87	22.97
		RB3#3	23.36	23.23	23.15	22.90	22.77	22.69
		RB6#0	22.17	22.13	22.30	21.71	21.67	21.84
	16QAM	RB1#0	22.19	22.25	22.38	21.73	21.79	21.92
		RB1#3	22.22	22.18	22.23	21.76	21.72	21.77
		RB1#5	22.33	22.16	22.20	21.87	21.70	21.74
		RB3#0	22.22	22.23	22.16	21.76	21.77	21.70
		RB3#3	22.32	22.34	22.41	21.86	21.88	21.95
		RB6#0	21.00	21.12	21.11	20.54	20.66	20.65
3.0	QPSK	RB1#0	22.93	22.93	22.99	22.47	22.47	22.53
		RB1#8	22.92	22.89	22.97	22.46	22.43	22.51
		RB1#14	23.17	23.00	23.06	22.71	22.54	22.60
		RB6#0	22.19	22.10	22.19	21.73	21.64	21.73
		RB6#9	22.05	22.05	22.15	21.59	21.59	21.69
		RB15#0	22.18	22.15	22.26	21.72	21.69	21.80
	16QAM	RB1#0	22.47	22.38	22.35	22.01	21.92	21.89
		RB1#8	22.32	22.25	22.34	21.86	21.79	21.88
		RB1#14	22.23	22.22	22.23	21.77	21.76	21.77

		RB6#0	21.06	21.06	21.04	20.60	20.60	20.58
		RB6#9	21.22	21.07	20.97	20.76	20.61	20.51
		RB15#0	21.20	21.18	21.23	20.74	20.72	20.77
5.0	QPSK	RB1#0	22.97	23.06	22.99	22.51	22.60	22.53
		RB1#13	23.21	23.11	23.13	22.75	22.65	22.67
		RB1#24	22.88	23.01	23.15	22.42	22.55	22.69
		RB15#0	22.22	22.09	22.11	21.76	21.63	21.65
		RB15#10	21.94	22.01	22.03	21.48	21.55	21.57
		RB25#0	22.00	22.08	22.09	21.54	21.62	21.63
	16QAM	RB1#0	21.68	21.63	21.76	21.22	21.17	21.30
		RB1#13	21.72	21.68	21.69	21.26	21.22	21.23
		RB1#24	21.46	21.59	21.44	21.00	21.13	20.98
		RB15#0	21.46	21.33	21.48	21.00	20.87	21.02
		RB15#10	21.26	21.32	21.33	20.80	20.86	20.87
		RB25#0	21.22	21.37	21.44	20.76	20.91	20.98
10.0	QPSK	RB1#0	23.09	23.18	23.17	22.63	22.72	22.71
		RB1#25	23.02	22.97	22.90	22.56	22.51	22.44
		RB1#49	22.99	22.96	22.96	22.53	22.50	22.50
		RB25#0	22.14	22.10	22.06	21.68	21.64	21.60
		RB25#25	22.08	22.03	21.98	21.62	21.57	21.52
		RB50#0	21.99	22.04	22.06	21.53	21.58	21.60
	16QAM	RB1#0	22.28	22.24	22.15	21.82	21.78	21.69
		RB1#13	22.58	22.56	22.54	22.12	22.10	22.08
		RB1#26	22.43	22.33	22.37	21.97	21.87	21.91
		RB15#0	21.10	21.15	21.19	20.64	20.69	20.73
		RB15#12	21.36	21.46	21.46	20.90	21.00	21.00
		RB27#0	21.30	21.34	21.26	20.84	20.88	20.80

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

For Band5: Antenna Gain = 2.29dBi = 0.14dBd (0dBd=2.15dBi)

<1GHz: Cable Loss=0.6dB* (provided by the applicant)

Limit: ERP≤38.45dBm

LTE Band 12:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	23.21	23.34	23.41	24.50	24.63	24.70
		RB1#3	23.37	23.37	23.25	24.66	24.66	24.54
		RB1#5	23.19	23.27	23.31	24.48	24.56	24.60
		RB3#0	23.31	23.38	23.41	24.60	24.67	24.70
		RB3#3	23.25	23.20	23.16	24.54	24.49	24.45
		RB6#0	22.22	22.09	21.98	23.51	23.38	23.27
	16QAM	RB1#0	21.93	21.96	22.04	23.22	23.25	23.33
		RB1#3	22.20	22.06	22.08	23.49	23.35	23.37
		RB1#5	21.84	21.80	21.83	23.13	23.09	23.12
		RB3#0	21.77	21.80	21.73	23.06	23.09	23.02
		RB3#3	21.69	21.76	21.66	22.98	23.05	22.95
		RB6#0	21.38	21.32	21.37	22.67	22.61	22.66
3.0	QPSK	RB1#0	23.13	23.07	23.13	24.42	24.36	24.42
		RB1#8	22.97	22.98	23.05	24.26	24.27	24.34
		RB1#14	22.85	22.89	23.02	24.14	24.18	24.31
		RB6#0	21.98	22.05	22.04	23.27	23.34	23.33
		RB6#9	22.08	22.11	22.18	23.37	23.40	23.47
		RB15#0	22.25	22.15	22.20	23.54	23.44	23.49
	16QAM	RB1#0	22.20	22.30	22.34	23.49	23.59	23.63
		RB1#8	22.31	22.19	22.19	23.60	23.48	23.48
		RB1#14	22.23	22.21	22.29	23.52	23.50	23.58
		RB6#0	21.11	21.11	21.22	22.40	22.40	22.51
		RB6#9	21.31	21.26	21.30	22.60	22.55	22.59
		RB15#0	21.34	21.18	21.23	22.63	22.47	22.52
5.0	QPSK	RB1#0	23.15	23.11	23.20	24.44	24.40	24.49
		RB1#13	23.12	23.09	23.03	24.41	24.38	24.32
		RB1#24	23.11	23.05	23.17	24.40	24.34	24.46
		RB15#0	22.17	22.12	22.07	23.46	23.41	23.36
		RB15#10	22.11	22.21	22.32	23.40	23.50	23.61
		RB25#0	22.13	22.08	22.03	23.42	23.37	23.32
	16QAM	RB1#0	21.46	21.41	21.48	22.75	22.70	22.77
		RB1#13	21.33	21.37	21.25	22.62	22.66	22.54
		RB1#24	21.34	21.29	21.31	22.63	22.58	22.60
		RB15#0	21.12	21.25	21.23	22.41	22.54	22.52
		RB15#10	21.25	21.23	21.24	22.54	22.52	22.53

		RB25#0	21.41	21.28	21.31	22.70	22.57	22.60
10.0	QPSK	RB1#0	22.90	22.75	22.71	24.19	24.04	24.00
		RB1#25	22.96	23.10	23.00	24.25	24.39	24.29
		RB1#49	23.04	22.94	22.84	24.33	24.23	24.13
		RB25#0	22.09	22.04	22.00	23.38	23.33	23.29
		RB25#25	21.90	22.01	21.99	23.19	23.30	23.28
		RB50#0	22.10	22.08	22.14	23.39	23.37	23.43
	16QAM	RB1#0	21.74	21.77	21.77	23.03	23.06	23.06
		RB1#13	22.78	22.78	22.70	24.07	24.07	23.99
		RB1#26	22.22	22.21	22.25	23.51	23.50	23.54
		RB15#0	21.10	21.12	20.99	22.39	22.41	22.28
		RB15#12	21.26	21.28	21.33	22.55	22.57	22.62
		RB27#0	21.13	21.09	21.14	22.42	22.38	22.43
Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB) For Band12: Antenna Gain = 4.04dBi = 1.89dBd (0dBd=2.15dBi) <1GHz: Cable Loss=0.6dB* (provided by the applicant) Limit: ERP≤34.77dBm								

LTE Band 13:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
5.0	QPSK	RB1#0	22.91	22.87	22.70	23.75	23.71	23.54
		RB1#13	22.98	22.81	22.97	23.82	23.65	23.81
		RB1#24	22.91	23.00	22.94	23.75	23.84	23.78
		RB15#0	21.91	21.89	21.90	22.75	22.73	22.74
		RB15#10	21.87	21.88	21.86	22.71	22.72	22.70
		RB25#0	22.00	21.84	21.87	22.84	22.68	22.71
	16QAM	RB1#0	21.20	21.25	21.18	22.04	22.09	22.02
		RB1#13	21.30	21.18	21.14	22.14	22.02	21.98
		RB1#24	21.40	21.32	21.45	22.24	22.16	22.29
		RB15#0	20.68	20.59	20.59	21.52	21.43	21.43
		RB15#10	20.87	20.85	20.86	21.71	21.69	21.70
		RB25#0	20.95	20.85	20.80	21.79	21.69	21.64
10.0	QPSK	RB1#0	/	22.85	/	/	23.69	/
		RB1#25	/	22.75	/	/	23.59	/
		RB1#49	/	22.86	/	/	23.70	/
		RB25#0	/	21.87	/	/	22.71	/
		RB25#25	/	21.98	/	/	22.82	/
		RB50#0	/	21.91	/	/	22.75	/
	16QAM	RB1#0	/	21.54	/	/	22.38	/
		RB1#13	/	21.60	/	/	22.44	/
		RB1#26	/	21.92	/	/	22.76	/
		RB15#0	/	20.72	/	/	21.56	/
		RB15#12	/	21.11	/	/	21.95	/
		RB27#0	/	21.20	/	/	22.04	/
Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB) For Band13: Antenna Gain =3.59dBi = 1.44dBd (0dBd=2.15dBi) <1GHz: Cable Loss=0.6dB* (provided by the applicant) Limit: ERP≤44.77dBm								

LTE Band 25:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	22.18	22.32	22.46	25.07	25.21	25.35
		RB1#3	22.42	22.43	22.41	25.31	25.32	25.30
		RB1#5	22.37	22.38	22.34	25.26	25.27	25.23
		RB3#0	22.39	22.41	22.36	25.28	25.30	25.25
		RB3#3	22.27	22.21	22.13	25.16	25.10	25.02
		RB6#0	21.22	21.23	21.17	24.11	24.12	24.06
	16QAM	RB1#0	20.81	20.81	20.86	23.70	23.70	23.75
		RB1#3	21.09	21.08	21.11	23.98	23.97	24.00
		RB1#5	20.78	20.89	20.76	23.67	23.78	23.65
		RB3#0	21.30	21.33	21.32	24.19	24.22	24.21
		RB3#3	21.43	21.37	21.36	24.32	24.26	24.25
		RB6#0	20.10	20.13	20.24	22.99	23.02	23.13
3.0	QPSK	RB1#0	22.09	22.14	22.24	24.98	25.03	25.13
		RB1#8	22.13	22.23	22.16	25.02	25.12	25.05
		RB1#14	22.23	22.10	22.14	25.12	24.99	25.03
		RB6#0	21.25	21.31	21.34	24.14	24.20	24.23
		RB6#9	21.29	21.17	21.18	24.18	24.06	24.07
		RB15#0	21.17	21.20	21.31	24.06	24.09	24.20
	16QAM	RB1#0	21.58	21.43	21.34	24.47	24.32	24.23
		RB1#8	21.32	21.39	21.38	24.21	24.28	24.27
		RB1#14	21.65	21.53	21.39	24.54	24.42	24.28
		RB6#0	20.17	20.15	20.05	23.06	23.04	22.94
		RB6#9	20.25	20.24	20.12	23.14	23.13	23.01
		RB15#0	20.55	20.38	20.35	23.44	23.27	23.24
5.0	QPSK	RB1#0	21.97	22.12	22.20	24.86	25.01	25.09
		RB1#13	22.45	22.29	22.22	25.34	25.18	25.11
		RB1#24	22.21	22.09	21.94	25.10	24.98	24.83
		RB15#0	21.32	21.32	21.50	24.21	24.21	24.39
		RB15#10	21.30	21.42	21.40	24.19	24.31	24.29
		RB25#0	21.37	21.20	21.26	24.26	24.09	24.15
	16QAM	RB1#0	20.87	20.73	20.73	23.76	23.62	23.62
		RB1#13	20.75	20.88	20.90	23.64	23.77	23.79
		RB1#24	20.86	20.74	20.61	23.75	23.63	23.50
		RB15#0	20.58	20.56	20.55	23.47	23.45	23.44
		RB15#10	20.43	20.61	20.55	23.32	23.50	23.44
		RB25#0	20.36	20.31	20.29	23.25	23.20	23.18

10.0	QPSK	RB1#0	23.17	23.11	23.09	26.06	26.00	25.98
		RB1#25	23.18	23.15	23.18	26.07	26.04	26.07
		RB1#49	23.04	23.04	23.05	25.93	25.93	25.94
		RB25#0	22.13	22.11	22.00	25.02	25.00	24.89
		RB25#25	22.12	22.13	22.19	25.01	25.02	25.08
		RB50#0	22.23	22.18	22.11	25.12	25.07	25.00
	16QAM	RB1#0	22.66	22.51	22.53	25.55	25.40	25.42
		RB1#13	22.84	22.84	22.76	25.73	25.73	25.65
		RB1#26	22.51	22.38	22.49	25.40	25.27	25.38
		RB15#0	21.08	21.13	21.14	23.97	24.02	24.03
		RB15#12	21.12	21.11	21.13	24.01	24.00	24.02
		RB27#0	20.98	21.01	21.04	23.87	23.90	23.93
15.0	QPSK	RB1#0	23.09	23.11	23.17	25.98	26.00	26.06
		RB1#38	22.81	22.91	22.90	25.70	25.80	25.79
		RB1#74	23.03	23.13	23.02	25.92	26.02	25.91
		RB36#0	22.05	21.88	21.94	24.94	24.77	24.83
		RB36#39	22.07	22.02	22.04	24.96	24.91	24.93
		RB75#0	21.86	21.86	21.73	24.75	24.75	24.62
	16QAM	RB1#0	21.84	21.81	21.77	24.73	24.70	24.66
		RB1#13	22.36	22.48	22.56	25.25	25.37	25.45
		RB1#26	22.30	22.41	22.48	25.19	25.30	25.37
		RB15#0	22.09	22.19	22.33	24.98	25.08	25.22
		RB15#12	22.28	22.31	22.23	25.17	25.20	25.12
		RB27#0	20.92	20.89	20.83	23.81	23.78	23.72
20.0	QPSK	RB1#0	22.78	22.78	22.69	25.67	25.67	25.58
		RB1#50	22.85	22.94	23.10	25.74	25.83	25.99
		RB1#99	22.34	22.48	22.54	25.23	25.37	25.43
		RB50#0	21.65	21.60	21.59	24.54	24.49	24.48
		RB50#50	21.70	21.68	21.81	24.59	24.57	24.70
		RB100#0	21.73	21.73	21.61	24.62	24.62	24.50
	16QAM	RB1#0	22.41	22.37	22.43	25.30	25.26	25.32
		RB1#13	22.48	22.51	22.52	25.37	25.40	25.41
		RB1#26	22.19	22.04	22.02	25.08	24.93	24.91
		RB15#0	21.83	21.84	21.91	24.72	24.73	24.80
		RB15#12	21.61	21.73	21.72	24.50	24.62	24.61
		RB27#0	21.12	20.97	20.90	24.01	23.86	23.79

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

For Band25: Antenna Gain = 3.89dBi

1GHz-2GHz : Cable Loss=1.0dB*(provided by the applicant)

Limit: EIRP≤33dBm

LTE Band 26(Part 90S):

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	23.50	23.35	23.27	23.04	22.89	22.81
		RB1#3	23.50	23.51	23.52	23.04	23.05	23.06
		RB1#5	23.64	23.56	23.60	23.18	23.10	23.14
		RB3#0	23.52	23.52	23.61	23.06	23.06	23.15
		RB3#3	23.45	23.54	23.58	22.99	23.08	23.12
		RB6#0	22.28	22.31	22.40	21.82	21.85	21.94
	16QAM	RB1#0	22.58	22.57	22.48	22.12	22.11	22.02
		RB1#3	22.76	22.78	22.88	22.30	22.32	22.42
		RB1#5	22.60	22.67	22.67	22.14	22.21	22.21
		RB3#0	22.65	22.53	22.40	22.19	22.07	21.94
		RB3#3	22.44	22.58	22.59	21.98	22.12	22.13
		RB6#0	21.83	21.74	21.72	21.37	21.28	21.26
3.0	QPSK	RB1#0	23.15	23.15	23.09	22.69	22.69	22.63
		RB1#8	22.88	22.94	22.94	22.42	22.48	22.48
		RB1#14	23.03	23.04	23.16	22.57	22.58	22.70
		RB6#0	21.91	21.97	21.85	21.45	21.51	21.39
		RB6#9	22.09	22.05	21.97	21.63	21.59	21.51
		RB15#0	22.22	22.21	22.21	21.76	21.75	21.75
	16QAM	RB1#0	22.05	22.16	22.25	21.59	21.70	21.79
		RB1#8	22.13	22.16	22.16	21.67	21.70	21.70
		RB1#14	21.89	21.98	21.93	21.43	21.52	21.47
		RB6#0	20.80	20.82	20.81	20.34	20.36	20.35
		RB6#9	20.79	20.79	20.72	20.33	20.33	20.26
		RB15#0	21.19	21.19	21.29	20.73	20.73	20.83
5.0	QPSK	RB1#0	23.03	23.07	22.93	22.57	22.61	22.47
		RB1#13	22.96	22.92	23.10	22.50	22.46	22.64
		RB1#24	23.04	23.06	22.97	22.58	22.60	22.51
		RB15#0	22.14	22.12	22.10	21.68	21.66	21.64
		RB15#10	21.92	21.98	22.02	21.46	21.52	21.56
		RB25#0	22.03	22.10	22.17	21.57	21.64	21.71
	16QAM	RB1#0	21.68	21.71	21.89	21.22	21.25	21.43
		RB1#13	21.87	21.82	21.84	21.41	21.36	21.38
		RB1#24	21.57	21.48	21.48	21.11	21.02	21.02
		RB15#0	21.25	21.18	21.20	20.79	20.72	20.74
		RB15#10	21.00	21.07	21.05	20.54	20.61	20.59

		RB25#0	21.10	21.01	20.95	20.64	20.55	20.49
10.0	QPSK	RB1#0	/	23.06	22.97	/	22.60	22.51
		RB1#25	/	22.99	22.90	/	22.53	22.44
		RB1#49	/	23.06	23.00	/	22.60	22.54
		RB25#0	/	22.31	22.35	/	21.85	21.89
		RB25#25	/	22.10	22.01	/	21.64	21.55
		RB50#0	/	22.06	21.92	/	21.60	21.46
	16QAM	RB1#0	/	22.29	22.26	/	21.83	21.80
		RB1#13	/	22.42	22.38	/	21.96	21.92
		RB1#26	/	22.18	22.25	/	21.72	21.79
		RB15#0	/	21.27	21.17	/	20.81	20.71
		RB15#12	/	21.15	21.12	/	20.69	20.66
		RB27#0	/	21.31	21.44	/	20.85	20.98
15.0	QPSK	RB1#0	23.71	/	23.74	23.25	/	23.28
		RB1#38	23.65	/	23.66	23.19	/	23.20
		RB1#74	23.58	/	23.53	23.12	/	23.07
		RB36#0	22.45	/	22.43	21.99	/	21.97
		RB36#39	22.53	/	22.34	22.07	/	21.88
		RB75#0	22.48	/	22.71	22.02	/	22.25
	16QAM	RB1#0	22.88	/	22.87	22.42	/	22.41
		RB1#13	22.39	/	22.40	21.93	/	21.94
		RB1#26	22.72	/	22.67	22.26	/	22.21
		RB15#0	22.26	/	22.05	21.80	/	21.59
		RB15#12	22.18	/	22.19	21.72	/	21.73
		RB27#0	21.36	/	21.30	20.90	/	20.84
For the high channel was test on the CROSS-RULE channel Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB) For Band26: Antenna Gain =2.29dBi = 0.14dBd (0dBd=2.15dBi) <1GHz: Cable Loss=0.6dB* (provided by the applicant) Limit: ERP≤50dBm								

LTE Band 26(Part 22H):

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP(dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	RB1#0	23.39	23.51	23.63	22.93	23.05	23.17
		RB1#3	23.62	23.64	23.57	23.16	23.18	23.11
		RB1#5	23.40	23.51	23.63	22.94	23.05	23.17
		RB3#0	23.67	23.61	23.60	23.21	23.15	23.14
		RB3#3	23.44	23.41	23.31	22.98	22.95	22.85
		RB6#0	22.25	22.29	22.16	21.79	21.83	21.70
	16QAM	RB1#0	22.46	22.63	22.54	22.00	22.17	22.08
		RB1#3	22.84	22.86	22.92	22.38	22.40	22.46
		RB1#5	22.84	22.75	22.71	22.38	22.29	22.25
		RB3#0	22.49	22.47	22.40	22.03	22.01	21.94
		RB3#3	22.51	22.57	22.66	22.05	22.11	22.20
		RB6#0	21.87	21.78	21.93	21.41	21.32	21.47
3.0	QPSK	RB1#0	23.02	23.11	23.09	22.56	22.65	22.63
		RB1#8	23.02	23.01	23.09	22.56	22.55	22.63
		RB1#14	23.07	22.97	22.85	22.61	22.51	22.39
		RB6#0	22.02	22.02	22.03	21.56	21.56	21.57
		RB6#9	22.08	22.05	22.04	21.62	21.59	21.58
		RB15#0	22.12	22.13	21.99	21.66	21.67	21.53
	16QAM	RB1#0	22.21	22.20	22.04	21.75	21.74	21.58
		RB1#8	22.26	22.18	22.13	21.80	21.72	21.67
		RB1#14	22.15	22.16	22.15	21.69	21.70	21.69
		RB6#0	20.92	20.97	20.94	20.46	20.51	20.48
		RB6#9	20.75	20.84	20.87	20.29	20.38	20.41
		RB15#0	21.15	21.08	21.20	20.69	20.62	20.74
5.0	QPSK	RB1#0	23.02	23.02	23.02	22.56	22.56	22.56
		RB1#13	23.02	22.91	22.93	22.56	22.45	22.47
		RB1#24	23.00	22.98	23.03	22.54	22.52	22.57
		RB15#0	22.05	22.11	22.10	21.59	21.65	21.64
		RB15#10	21.83	21.98	22.00	21.37	21.52	21.54
		RB25#0	21.92	22.07	22.18	21.46	21.61	21.72
	16QAM	RB1#0	21.67	21.66	21.71	21.21	21.20	21.25
		RB1#13	21.75	21.78	21.73	21.29	21.32	21.27
		RB1#24	21.66	21.59	21.58	21.20	21.13	21.12
		RB15#0	21.09	21.25	21.19	20.63	20.79	20.73
		RB15#10	21.00	21.03	21.00	20.54	20.57	20.54

		RB25#0	21.06	21.15	21.23	20.60	20.69	20.77
10.0	QPSK	RB1#0	22.99	23.07	23.07	22.53	22.61	22.61
		RB1#25	23.00	22.95	23.06	22.54	22.49	22.60
		RB1#49	23.05	23.03	22.97	22.59	22.57	22.51
		RB25#0	22.14	22.21	22.10	21.68	21.75	21.64
		RB25#25	22.05	22.08	21.96	21.59	21.62	21.50
		RB50#0	22.07	22.07	22.07	21.61	21.61	21.61
	16QAM	RB1#0	22.35	22.37	22.42	21.89	21.91	21.96
		RB1#13	22.48	22.42	22.33	22.02	21.96	21.87
		RB1#26	22.04	22.16	22.15	21.58	21.70	21.69
		RB15#0	21.31	21.26	21.20	20.85	20.80	20.74
		RB15#12	21.19	21.07	20.95	20.73	20.61	20.49
		RB27#0	21.44	21.29	21.42	20.98	20.83	20.96
15.0	QPSK	RB1#0	23.94	23.89	23.90	23.48	23.43	23.44
		RB1#38	23.50	23.63	23.62	23.04	23.17	23.16
		RB1#74	23.43	23.41	23.46	22.97	22.95	23.00
		RB36#0	22.38	22.46	22.31	21.92	22.00	21.85
		RB36#39	22.38	22.55	22.59	21.92	22.09	22.13
		RB75#0	22.50	22.57	22.53	22.04	22.11	22.07
	16QAM	RB1#0	22.23	22.22	22.27	21.77	21.76	21.81
		RB1#13	22.16	22.26	22.32	21.70	21.80	21.86
		RB1#26	22.27	22.32	22.20	21.81	21.86	21.74
		RB15#0	22.06	22.05	21.98	21.60	21.59	21.52
		RB15#12	21.79	21.85	21.84	21.33	21.39	21.38
		RB27#0	21.05	21.22	21.08	20.59	20.76	20.62

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

For Band26: Antenna Gain = 2.29dBi = 0.14dBd (0dBd=2.15dBi)

<1GHz: Cable Loss=0.6dB* (provided by the applicant)

Limit: ERP≤38.45dBm

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 (1RB Size)	4.97	5.00	4.78	13	Pass
QPSK (50RB Size)	5.87	5.77	5.74	13	Pass
16QAM (1RB Size)	5.96	5.80	5.80	13	Pass
16QAM (27RB Size)	6.51	6.51	6.31	13	Pass

LTE Band 4 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	4.87	4.87	4.23	13	Pass
QPSK (50RB Size)	5.93	5.83	5.64	13	Pass
16QAM (1RB Size)	5.83	5.87	4.97	13	Pass
16QAM (27RB Size)	6.38	6.38	5.83	13	Pass

LTE Band 5 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.03	4.90	4.87	13	Pass
QPSK (50RB Size)	5.96	5.93	5.80	13	Pass
16QAM (1RB Size)	5.83	5.77	5.83	13	Pass
16QAM (27RB Size)	6.54	6.28	6.41	13	Pass

LTE Band 12 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	4.55	4.52	4.10	13	Pass
QPSK (50RB Size)	5.64	5.64	5.61	13	Pass
16QAM (1RB Size)	5.35	5.26	5.29	13	Pass
16QAM (27RB Size)	6.12	5.83	5.90	13	Pass

LTE Band 13 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	/	4.84	/	13	Pass
QPSK (50RB Size)	/	5.99	/	13	Pass
16QAM (1RB Size)	/	5.67	/	13	Pass
16QAM (27RB Size)	/	6.63	/	13	Pass

LTE Band 25 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.06	4.65	4.49	13	Pass
QPSK (50RB Size)	5.90	5.83	5.83	13	Pass
16QAM (1RB Size)	5.90	5.61	5.19	13	Pass
16QAM (27RB Size)	6.51	6.31	6.67	13	Pass

LTE Band 26(Part 90S) 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	/	4.65	/	13	Pass
QPSK (50RB Size)	/	5.87	/	13	Pass
16QAM (1RB Size)	/	5.71	/	13	Pass
16QAM (27RB Size)	/	6.19	/	13	Pass

LTE Band 26(Part 22H) 10MHz Bandwidth

Modulation	Low channel (dB)	Middle channel (dB)	High channel (dB)	PAR Limit (dB)	Result
QPSK (1RB Size)	5.03	4.94	4.74	13	Pass
QPSK (50RB Size)	5.58	5.90	5.87	13	Pass
16QAM (1RB Size)	6.06	5.90	5.77	13	Pass
16QAM (27RB Size)	6.31	6.44	6.67	13	Pass

3.3.3 26dB and 99% Bandwidth

LTE Band 2:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.106	1.268	1.092	1.284	1.092	1.301
	16QAM	1.092	1.289	1.099	1.302	1.092	1.282
3 MHz	QPSK	2.700	2.954	2.700	2.945	2.700	2.964
	16QAM	2.700	2.968	2.700	2.957	2.700	2.938
5 MHz	QPSK	4.500	4.969	4.520	4.901	4.480	4.939
	16QAM	4.500	4.901	4.500	4.939	4.500	4.978
10 MHz	QPSK	8.950	9.714	8.974	9.768	8.974	9.728
	16QAM	4.888	5.689	4.928	5.649	4.928	5.609
15 MHz	QPSK	13.401	14.603	13.401	14.603	13.462	14.675
	16QAM	5.048	5.950	5.048	6.010	5.108	6.010
20 MHz	QPSK	17.869	18.990	17.949	19.391	17.869	19.135
	16QAM	5.128	6.330	5.048	6.170	5.048	6.250

LTE Band 4:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.098	1.302	1.104	1.314	1.110	1.296
	16QAM	1.104	1.320	1.098	1.296	1.104	1.320
3 MHz	QPSK	2.688	2.952	2.688	2.952	2.700	2.964
	16QAM	2.688	2.952	2.700	2.952	2.688	2.940
5 MHz	QPSK	4.520	5.020	4.520	5.040	4.520	5.020
	16QAM	4.600	5.200	4.520	5.040	4.520	5.080
10 MHz	QPSK	8.960	9.720	8.960	9.760	8.960	9.680
	16QAM	4.904	5.641	4.936	5.705	4.904	5.641
15 MHz	QPSK	13.500	14.760	13.500	14.820	13.440	14.820
	16QAM	5.192	6.250	5.192	6.298	5.192	6.298
20 MHz	QPSK	17.920	19.360	17.920	19.360	17.840	19.360
	16QAM	5.192	6.603	5.321	6.538	5.256	6.603

LTE Band 5:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.088	1.279	1.094	1.273	1.088	1.296
	16QAM	1.094	1.301	1.088	1.273	1.088	1.268
3 MHz	QPSK	2.692	2.933	2.692	2.957	2.692	2.950
	16QAM	2.692	2.957	2.692	2.957	2.692	2.945
5 MHz	QPSK	4.487	4.948	4.487	4.868	4.487	4.884
	16QAM	4.487	4.868	4.487	4.968	4.487	4.928
10 MHz	QPSK	8.974	9.816	8.934	9.655	8.974	9.776
	16QAM	4.928	5.729	4.928	5.609	4.928	5.729

LTE Band 12:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.098	1.320	1.104	1.326	1.110	1.296
	16QAM	1.110	1.326	1.104	1.314	1.104	1.320
3 MHz	QPSK	2.688	2.952	2.688	2.964	2.700	2.952
	16QAM	2.700	2.964	2.688	2.952	2.688	2.976
5 MHz	QPSK	4.520	5.020	4.520	5.020	4.520	5.000
	16QAM	4.520	5.020	4.520	4.960	4.520	5.020
10 MHz	QPSK	8.960	9.800	8.960	9.680	8.960	9.680
	16QAM	4.904	5.673	4.904	5.609	4.904	5.673

LTE Band 13:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.520	5.020	4.540	5.020	4.520	5.000
	16QAM	4.520	5.000	4.540	5.020	4.540	5.040
10 MHz	QPSK	/	/	8.960	9.680	/	/
	16QAM	/	/	4.904	5.641	/	/

LTE Band 25

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.081	1.276	1.095	1.281	1.084	1.301
	16QAM	1.095	1.301	1.086	1.290	1.095	1.315
3 MHz	QPSK	2.694	2.961	2.688	2.949	2.682	2.973
	16QAM	2.688	2.985	2.694	2.967	2.688	2.955
5 MHz	QPSK	4.470	4.895	4.480	4.865	4.480	4.925
	16QAM	4.470	4.845	4.490	4.945	4.470	4.895
10 MHz	QPSK	8.980	9.930	8.980	9.970	9.000	9.930
	16QAM	5.020	5.934	4.980	5.974	4.980	5.874
15 MHz	QPSK	13.350	14.505	13.410	14.655	13.350	14.416
	16QAM	5.010	6.054	4.980	5.904	5.010	6.024
20 MHz	QPSK	17.800	19.141	17.840	19.061	17.760	18.941
	16QAM	5.040	6.274	5.000	6.034	5.040	6.274

LTE Band 26(Part 90S)

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.078	1.262	1.084	1.256	1.078	1.250
	16QAM	1.086	1.287	1.094	1.298	1.084	1.284
3 MHz	QPSK	2.676	2.943	2.694	2.955	2.688	2.955
	16QAM	2.688	2.949	2.688	2.955	2.688	2.967
5 MHz	QPSK	4.470	4.875	4.460	4.885	4.470	4.865
	16QAM	4.460	4.865	4.460	4.905	4.460	4.885
10 MHz	QPSK	/	/	8.980	9.950	9.000	9.990
	16QAM	/	/	4.940	5.794	4.980	5.834
15 MHz	QPSK	13.440	14.685	/	/	13.440	14.625
	16QAM	5.010	5.934	/	/	4.980	5.904

LTE Band 26(Part 90S)

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.095	1.290	1.092	1.270	1.084	1.284
	16QAM	1.092	1.292	1.095	1.273	1.084	1.220
3 MHz	QPSK	2.682	2.931	2.694	2.943	2.688	2.967
	16QAM	2.682	2.943	2.688	2.931	2.694	2.811
5 MHz	QPSK	4.470	4.855	4.490	4.945	4.470	4.905
	16QAM	4.470	4.895	4.490	4.965	4.480	4.895
10 MHz	QPSK	8.940	9.910	9.020	10.050	8.960	9.870
	16QAM	4.980	5.854	5.000	6.014	4.960	5.874
15 MHz	QPSK	13.380	14.595	13.440	14.625	13.380	14.505
	16QAM	4.980	5.934	4.980	5.934	5.010	5.994

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
LTE B26	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
LTE B26	Refer test plot	Refer test plot	Pass

Note: Test Plots of Band Edge please refer Appendix C

3.3.6 FREQUENCY STABILITY

QPSK:

Band 2:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1850.361161	1909.072949	1850	1910
-20		1850.383906	1909.512216	1850	1910
-10		1850.865742	1909.612086	1850	1910
0		1850.345047	1909.746276	1850	1910
10		1850.092480	1909.923654	1850	1910
20		1850.776562	1909.945999	1850	1910
30		1850.357964	1909.584809	1850	1910
40		1850.805080	1909.160188	1850	1910
50		1850.872998	1909.500504	1850	1910
20	13.8	1850.163955	1909.298843	1850	1910
	10.2	1850.011761	1909.166584	1850	1910

Band 4:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1710.540138	1754.489308	1710	1755
-20		1710.955241	1754.698173	1710	1755
-10		1710.594201	1754.548508	1710	1755
0		1710.372326	1754.547950	1710	1755
10		1710.545148	1754.406366	1710	1755
20		1710.471270	1754.513529	1710	1755
30		1710.750389	1754.762822	1710	1755
40		1710.460946	1754.741794	1710	1755
50		1710.057099	1754.391404	1710	1755
20	13.8	1710.959143	1754.047684	1710	1755
	10.2	1710.871750	1754.874036	1710	1755

Band 5:

10.0 MHz Middle Channel, $f_o = 836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	5.68	0.00679	2.5
-20		5.46	0.00653	2.5
-10		7.96	0.00952	2.5
0		4.50	0.00538	2.5
10		7.93	0.00948	2.5
20		6.53	0.00781	2.5
30		5.68	0.00679	2.5
40		4.67	0.00558	2.5
50		6.11	0.00730	2.5
20	13.8	6.64	0.00794	2.5
	10.2	7.71	0.00922	2.5

Band 12:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	699.113293	715.200635	699	716
-20		699.606789	715.080181	699	716
-10		699.318546	715.650976	699	716
0		699.172522	715.060957	699	716
10		699.618017	715.376804	699	716
20		699.108086	715.246680	699	716
30		699.968252	715.279664	699	716
40		699.711555	715.850222	699	716
50		699.761846	715.201370	699	716
20	13.8	699.572550	715.036585	699	716
	10.2	699.189225	715.346180	699	716

Band 13:

5 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	777.781264	786.317508	777	787
-20		777.895013	786.000678	777	787
-10		777.503133	786.508893	777	787
0		777.197992	786.116348	777	787
10		777.369553	786.856367	777	787
20		777.288980	786.611770	777	787
30		777.779871	786.575798	777	787
40		777.982690	786.622868	777	787
50		777.779017	786.717787	777	787
20	13.8	777.262922	786.977162	777	787
	10.2	777.498339	786.175767	777	787

Band 25:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1850.100099	1914.712033	1850	1915
-20		1850.502055	1914.639858	1850	1915
-10		1850.287753	1914.958430	1850	1915
0		1850.851657	1914.001779	1850	1915
10		1850.308992	1914.747237	1850	1915
20		1850.674281	1914.818267	1850	1915
30		1850.062502	1914.839338	1850	1915
40		1850.914007	1914.874187	1850	1915
50		1850.206403	1914.741174	1850	1915
20	13.8	1850.172445	1914.936595	1850	1915
	10.2	1850.006959	1914.335129	1850	1915

Band 26(Part 90S):

10.0 MHz Middle Channel, $f_o = 819\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	5.06	0.00605	2.5
-20		7.65	0.00915	2.5
-10		7.38	0.00882	2.5
0		7.59	0.00907	2.5
10		6.13	0.00733	2.5
20		7.14	0.00854	2.5
30		4.44	0.00531	2.5
40		7.35	0.00879	2.5
50		4.74	0.00567	2.5
20	13.8	5.31	0.00635	2.5
	10.2	5.8	0.00693	2.5

Band 26(Part 22H):

10 MHz Bandwidth Middle Channel, $f_o = 836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	4.97	0.00594	2.5
-20		7.60	0.00909	2.5
-10		7.30	0.00873	2.5
0		7.58	0.00906	2.5
10		6.10	0.00729	2.5
20		7.10	0.00849	2.5
30		4.40	0.00526	2.5
40		7.33	0.00876	2.5
50		4.69	0.00561	2.5
20	13.8	5.27	0.00630	2.5
	10.2	5.78	0.00691	2.5

16QAM:

Band 2:

1.4MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1850.914209	1909.085949	1850	1910
-20		1850.682775	1909.751832	1850	1910
-10		1850.207743	1909.034706	1850	1910
0		1850.359727	1909.866364	1850	1910
10		1850.042739	1909.340329	1850	1910
20		1850.824068	1909.019446	1850	1910
30		1850.641875	1909.784757	1850	1910
40		1850.574191	1909.164620	1850	1910
50		1850.302645	1909.204158	1850	1910
20	13.8	1850.716879	1909.037779	1850	1910
	10.2	1850.433393	1909.346080	1850	1910

Band 4:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1710.618079	1754.705774	1710	1755
-20		1710.045453	1754.531575	1710	1755
-10		1710.277084	1754.828301	1710	1755
0		1710.422223	1754.823174	1710	1755
10		1710.186490	1754.170443	1710	1755
20		1710.196376	1754.834546	1710	1755
30		1710.579165	1754.620097	1710	1755
40		1710.819216	1754.031167	1710	1755
50		1710.649748	1754.407456	1710	1755
20	13.8	1710.468683	1754.160346	1710	1755
	10.2	1710.030164	1754.418507	1710	1755

Band 5:

10.0 MHz Middle Channel, $f_0 = 836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	6.50	0.00777	2.5
-20		6.60	0.00789	2.5
-10		4.26	0.00509	2.5
0		7.26	0.00868	2.5
10		4.45	0.00532	2.5
20		6.62	0.00791	2.5
30		5.59	0.00668	2.5
40		6.88	0.00822	2.5
50		7.99	0.00955	2.5
20	13.8	5.29	0.00632	2.5
	10.2	4.29	0.00513	2.5

Band 12:

1.4MHz Bandwidth					
Temperature (°C)	Power Supplied (V_{DC})	F_L (MHz)	F_H (MHz)	F_L Limit (MHz)	F_H Limit (MHz)
-30	12	699.928374	715.853650	699	716
-20		699.354881	715.752410	699	716
-10		699.500938	715.471703	699	716
0		699.206798	715.369061	699	716
10		699.876593	715.575968	699	716
20		699.545680	715.242537	699	716
30		699.333887	715.005354	699	716
40		699.407410	715.768806	699	716
50		699.438409	715.150996	699	716
20	13.8	699.968741	715.969786	699	716
	10.2	699.958474	715.155862	699	716

Band 13:

5MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	777.262605	786.318860	777	787
-20		777.928473	786.557087	777	787
-10		777.664883	786.586032	777	787
0		777.864270	786.220677	777	787
10		777.412503	786.741748	777	787
20		777.810424	786.412791	777	787
30		777.381402	786.493542	777	787
40		777.469654	786.794349	777	787
50		777.543379	786.874998	777	787
20	13.8	777.642961	786.491683	777	787
	10.2	777.073635	786.788976	777	787

Band 25:

1.4 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	12	1850.989170	1914.218536	1850	1915
-20		1850.433364	1914.925249	1850	1915
-10		1850.218650	1914.945139	1850	1915
0		1850.917307	1914.970058	1850	1915
10		1850.292541	1914.082040	1850	1915
20		1850.296658	1914.775009	1850	1915
30		1850.858701	1914.279870	1850	1915
40		1850.254440	1914.155866	1850	1915
50		1850.684505	1914.697045	1850	1915
20	13.8	1850.704375	1914.473014	1850	1915
	10.2	1850.885324	1914.420729	1850	1915

Band 26(Part 90S):

10.0 MHz Middle Channel, $f_o = 819\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	6.90	0.00825	2.5
-20		7.67	0.00917	2.5
-10		4.46	0.00533	2.5
0		6.29	0.00752	2.5
10		4.89	0.00585	2.5
20		5.04	0.00603	2.5
30		5.24	0.00626	2.5
40		4.49	0.00537	2.5
50		5.94	0.00710	2.5
20	13.8	6.02	0.00720	2.5
	10.2	7.30	0.00873	2.5

Band 26(Part 22H):

10.0 MHz Middle Channel, $f_o = 836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	12	5.01	0.00599	2.5
-20		7.57	0.00905	2.5
-10		7.3	0.00873	2.5
0		7.52	0.00899	2.5
10		6.13	0.00733	2.5
20		7.04	0.00842	2.5
30		4.36	0.00521	2.5
40		7.34	0.00877	2.5
50		4.74	0.00567	2.5
20	13.8	5.21	0.00623	2.5
	10.2	5.8	0.00693	2.5

3.4 Radiated Spurious emission Test Data

Test Date:	2024-06-11	Test By:	Bard Huang
Environment condition:	Temperature: 25.6°C; Relative Humidity:73%; ATM Pressure: 100.1kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	EIRP CF	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)	Remark
LTE Band 2									
Low Channel(1850.7MHz)									
3701.400	59.32	horizontal	-2.57	56.75	95.2	-38.45	-13.00	-25.45	Peak
3701.400	63.99	vertical	-2.57	61.42	95.2	-33.78	-13.00	-20.78	Peak
Middle Channel(1880MHz)									
3760.000	58.53	horizontal	-2.69	55.84	95.2	-39.36	-13.00	-26.36	Peak
3760.000	61.42	vertical	-2.69	58.73	95.2	-36.47	-13.00	-23.47	Peak
High Channel(1909.3MHz)									
3818.600	57.66	horizontal	-2.78	54.88	95.2	-40.32	-13.00	-27.32	Peak
3818.600	61.51	vertical	-2.78	58.73	95.2	-36.47	-13.00	-23.47	Peak
LTE Band 4									
Low Channel(1710.7MHz)									
3421.400	66.27	horizontal	-2.63	63.64	95.2	-31.56	-13.00	-18.56	Peak
3421.400	66.96	vertical	-2.63	64.33	95.2	-30.87	-13.00	-17.87	Peak
Middle Channel(1732.5MHz)									
3465.000	70.28	horizontal	-2.68	67.60	95.2	-27.6	-13.00	-14.6	Peak
3465.000	70.03	vertical	-2.68	67.35	95.2	-27.85	-13.00	-14.85	Peak
High Channel(1754.3MHz)									
3508.600	65.17	horizontal	-2.71	62.46	95.2	-32.74	-13.00	-19.74	Peak
3508.600	66.34	vertical	-2.71	63.63	95.2	-31.57	-13.00	-18.57	Peak
LTE Band 5									
Low Channel(824.7MHz)									
1649.400	57.38	horizontal	-3.32	54.06	95.2	-41.14	-13.00	-28.14	Peak
1649.400	59.67	vertical	-3.32	56.35	95.2	-38.85	-13.00	-25.85	Peak
Middle Channel(836.5MHz)									
1673.000	58.21	horizontal	-3.19	55.02	95.2	-40.18	-13.00	-27.18	Peak
1673.000	58.60	vertical	-3.19	55.41	95.2	-39.79	-13.00	-26.79	Peak
High Channel(848.3MHz)									
1696.600	59.41	horizontal	-3.07	56.34	95.2	-38.86	-13.00	-25.86	Peak
1696.600	60.07	vertical	-3.07	57.00	95.2	-38.2	-13.00	-25.2	Peak

LTE Band 12									
Low Channel(699.7MHz)									
1399.400	60.23	horizontal	-4.66	55.57	95.2	-39.63	-13.00	-26.63	Peak
1399.400	60.22	vertical	-4.66	55.56	95.2	-39.64	-13.00	-26.64	Peak
Middle Channel(707.5MHz)									
1415.000	60.38	horizontal	-4.58	55.80	95.2	-39.4	-13.00	-26.4	Peak
1415.000	56.35	vertical	-4.58	51.77	95.2	-43.43	-13.00	-30.43	Peak
High Channel(715.3MHz)									
1430.600	59.42	horizontal	-4.51	54.91	95.2	-40.29	-13.00	-27.29	Peak
1430.600	55.31	vertical	-4.51	50.80	95.2	-44.4	-13.00	-31.4	Peak
LTE Band 13									
Low Channel(779.5MHz)									
1559.000	55.60	horizontal	-3.99	51.61	95.2	-43.59	-40.00	-3.59	Peak
1559.000	55.80	vertical	-3.99	51.81	95.2	-43.39	-40.00	-3.39	Peak
Middle Channel(782MHz)									
1564.000	55.63	horizontal	-3.96	51.67	95.2	-43.53	-40.00	-3.53	Peak
1564.000	55.28	vertical	-3.96	51.32	95.2	-43.88	-40.00	-3.88	Peak
High Channel(784.5MHz)									
1569.000	55.34	horizontal	-3.92	51.42	95.2	-43.78	-40.00	-3.78	Peak
1569.000	55.32	vertical	-3.92	51.40	95.2	-43.8	-40.00	-3.80	Peak
LTE Band 25									
Low Channel(1850.7MHz)									
3701.400	58.59	horizontal	-2.57	56.02	95.2	-39.18	-13.00	-26.18	Peak
3701.400	60.58	vertical	-2.57	58.01	95.2	-37.19	-13.00	-24.19	Peak
Middle Channel(1882.5MHz)									
3765.000	58.38	horizontal	-2.70	55.68	95.2	-39.52	-13.00	-26.52	Peak
3765.000	48.79	vertical	-2.70	46.09	95.2	-49.11	-13.00	-36.11	Peak
High Channel(1914.3MHz)									
3828.600	28.35	horizontal	40.28	68.63	95.2	-26.57	-13.00	-13.57	Peak
3828.600	30.33	vertical	40.28	70.61	95.2	-24.59	-13.00	-11.59	Peak
LTE Band 26									
Low Channel(814.7MHz)									
1629.400	25.88	horizontal	38.17	64.05	95.2	-31.15	-13.00	-18.15	Peak
1629.400	33.77	vertical	38.17	71.94	95.2	-23.26	-13.00	-10.26	Peak
Middle Channel(831.5MHz)									
1663.000	60.38	horizontal	-3.25	57.13	95.2	-38.07	-13.00	-25.07	Peak
1663.000	58.23	vertical	-3.25	54.98	95.2	-40.22	-13.00	-27.22	Peak

High Channel(848.3MHz)									
1696.600	58.70	horizontal	-3.07	55.63	95.2	-39.57	-13.00	-26.57	Peak
1696.600	58.10	vertical	-3.07	55.03	95.2	-40.17	-13.00	-27.17	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Result – Limit

According to ANSI C63.26-2015 section 5.2.7:

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

Test was performed on 3meters distance, so

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

= 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 2405T53345E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405T53345E External photo and 2405T53345E Internal photo.

---End of Report---