

TEST REPORT

Applicant: 70mai Co., Ltd.
Address: Room 2220, building 2, No. 588, Zixing road,
MinHang District, Shanghai. CHINA
Equipment Type: 70mai 4G Hardwire Kit 2
Model Name: Midrive UP12
Brand Name: 70mai
FCC ID: 2AOK9-MP12
ISED Number: 28033-MP12
Test Standard: 47 CFR Part 2
(Others refer to chapter 3.1)
Sample Arrival Date: Aug. 24, 2026
Test Date: Aug. 28, 2026 - Sep. 10, 2026
Date of Issue: Sep. 28, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



Tested by: Liu Juren **Checked by:** Huang Jinsheng **Approved by:** Liao Jianming
(Technical Director)

*Liu Juren**Huang Jinsheng**Jim Liao*

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 21, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Sep. 28, 2026</u>	<u>Updated the EUT name.</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT).....	5
2.4	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Test Verdict	8
3.3	Measurement Uncertainty	10
4	GENERAL TEST CONFIGURATIONS	11
4.1	Test Environments.....	11
4.2	Test Equipment List.....	11
4.3	Test Configurations.....	12
4.4	Test Setup	15
5	TEST ITEMS	18
5.1	Transmitter Radiated Power (EIRP/ERP)	18
5.2	Peak to Average Ratio	23
5.3	Occupied Bandwidth.....	26
5.4	Frequency Stability	28
5.5	Spurious Emission at Antenna Terminals	32
5.6	Band Edge.....	40

5.7	Field Strength of Spurious Radiation	48
5.8	Receiver Spurious Emissions	57
5.9	AC Power-line Conducted Emissions.....	59
ANNEX A	TEST RESULTS	61
A.1	Transmitter Radiated Power (EIRP/ERP)	61
A.2	Peak to Average Ratio	101
A.3	Occupied Bandwidth	101
A.4	Frequency Stability	101
A.5	Spurious Emission at Antenna Terminals	101
A.6	Band Edge.....	101
A.7	Field Strength of Spurious Radiation	102
A.8	Receiver Spurious Emissions	103
A.9	AC Power-line Conducted Emissions.....	107
ANNEX B	TEST SETUP PHOTOS	109
ANNEX C	EUT EXTERNAL PHOTOS.....	109
ANNEX D	EUT INTERNAL PHOTOS.....	109

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The CAB identifier number is CN0030. The laboratory is a testing organization accredited by FCC as an accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	70mai Co., Ltd.
Address	Room 2220, building 2, No. 588, Zixing road, MinHang District, Shanghai. CHINA

2.2 Manufacturer Information

Manufacturer	70mai Co., Ltd.
Address	Room 2220, building 2, No. 588, Zixing road, MinHang District, Shanghai. CHINA

2.3 General Description for Equipment under Test (EUT)

EUT Name	70mai 4G Hardwire Kit 2
Model Name Under Test	Midrive UP12
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	D302UP12YHL66900010035
Hardware Version	LBCM067D1
Software Version	EC25AFXDGAR07A02M1G
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

All Network and Wireless connectivity for EUT	4G Network LTE FDD Band 2/4/5/12/13/14/66/71 WIFI 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ax(HE20/40)
About the Product	The equipment is 4G Hardwire Kit, intended for used with information technology equipment.

The following is the technical information of the EUT tested frequency bands in this report.

Operating Bands		FDD LTE Band 2/4/5/12/13/14/66/71	
Modulation Type		LTE	QPSK
		16QAM	
Antenna Type		FPC Antenna	
Antenna Gain		FDD LTE Band 2: 1.66 dBi	
		FDD LTE Band 4: 1.85 dBi	
		FDD LTE Band 5: 1.05 dBi	
		FDD LTE Band 12: 1.06 dBi	
		FDD LTE Band 13: 1.04 dBi	
		FDD LTE Band 14: 1.99 dBi	
		FDD LTE Band 66: 1.96 dBi	
		FDD LTE Band 71: 0.89 dBi	
The Max RF Output Power (EIRP/ERP)		FDD LTE Band 2: 24.25 dBm	
		FDD LTE Band 4: 24.14 dBm	
		FDD LTE Band 5: 21.97 dBm	
		FDD LTE Band 12: 21.84 dBm	
		FDD LTE Band 13: 21.88 dBm	
		FDD LTE Band 14: 23.08 dBm	
		FDD LTE Band 66: 24.56 dBm	
		FDD LTE Band 71: 21.7 dBm	
Band	Power Class	Tx Frequency Range	Rx Frequency Range
LTE B2	3	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
LTE B4	3	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
LTE B5	3	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
LTE B12	3	699 MHz ~ 716 MHz	729 MHz ~ 746 MHz
LTE B13	3	777 MHz ~787 MHz	746 MHz ~ 756 MHz
LTE B14	3	788 MHz ~ 798 MHz	758 MHz ~ 768 MHz
LTE B66	3	1710 MHz ~ 1780 MHz	2110 MHz ~ 2180 MHz
LTE B71	3	663 MHz ~ 698 MHz	617 MHz ~ 652 MHz

Note 1: The EUT information provided by the applicant, except for The Max RF Conducted Power. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90 Subpart R	Regulations Governing Licensing and Use of Frequencies in the 758-775 and 788-805 MHz Bands
6	RSS-Gen Issue5	General Requirements and Information for the Certification of Radio Apparatus
7	RSS-130 Issue2	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz
8	RSS-132 Issue4	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
9	RSS-133 Issue7	2 GHz Personal Communications Services
10	RSS-139 Issue4	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2200 MHz
11	RSS-140 Issue1	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
12	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
13	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Test Description	FCC Part No.	ISED Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50 90.542(a)	RSS-Gen 6.12 RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046 24.232(d) 27.50(d)	RSS-130 4.6 RSS-132 5.4 RSS-133 6.4 RSS-139 6.5 RSS-140 4.3	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53 90.209	RSS-Gen 6.7	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54 90.213	RSS-Gen 6.11 RSS-130 4.5 RSS-132 5.3 RSS-133 6.3 RSS-139 6.4 RSS-140 4.2	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53 90.543	RSS-Gen 6.13 RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-140 4.4	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53 90.543	RSS-130 4.7 RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-140 4.4	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917	RSS-Gen 6.13 RSS-130 4.7	ANNEX A.7	Pass

No.	Test Description	FCC Part No.	ISED Part No.	Test Result	Test Verdict
		24.238 27.53 90.543	RSS-132 5.5 RSS-133 6.5 RSS-139 6.6 RSS-140 4.4		
9	Receiver Spurious Emissions	N/A	RSS-Gen 7 RSS-133 6.6	ANNEX A.8	Pass
10	AC Power-line Conducted Emissions	N/A	RSS-Gen 8.8	ANNEX A.9	Pass

Note: The difference between the EUT (test samples in this report) and testing sample of report No. EFTA25080400-IE-02-R17/R18/R19/R20V1 & EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) Co., Ltd. on Oct. 14,2025 & Oct. 24,2025 were that added enclosure. And RF module is the same. After evaluation, Effective (Isotropic) Radiated Power, Field Strength of Spurious Radiation, Receiver Spurious Emission and AC Power-line Conducted Emissions were tested in this report, and other test data please refer to No. EFTA25080400-IE-02-R17/R18/R19/R20V1 & EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) Co., Ltd. on Oct. 14,2025 & Oct. 24,2025.

3.3 Measurement Uncertainty

Test Case	Uncertainty
Conducted RF Output Power	
$f \leq 3\text{GHz}$	
$\text{BW} \leq 40\text{MHz}$	0.68 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.12 dB
$3\text{GHz} < f \leq 4.2\text{GHz}$	
$\text{BW} \leq 40\text{MHz}$	0.90 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.32 dB
$4.2\text{GHz} < f \leq 6.0\text{GHz}$	
$\text{BW} \leq 20\text{MHz}$	1.08 dB
$20\text{MHz} < \text{BW} \leq 40\text{MHz}$	1.26 dB
$40\text{MHz} < \text{BW} \leq 100\text{MHz}$	1.52 dB
Effective (Isotropic) Radiated Power	2.50dB
Peak to Average Ratio	0.015%
Occupied Bandwidth	1.5% of channel bandwidth
Frequency Stability	12Hz
Spurious Emission at Antenna Terminals	2.56dB
Band Edge	1.48dB
Field Strength of Spurious Radiation	4.55dB
Receiver Spurious Emissions	
30 MHz-1 GHz	4.30dB
1 GHz-18 GHz	4.81dB
18 GHz-40 GHz	5.71dB
AC Power-line Conducted Emissions	3.23dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the environmental conditions were within the listed ranges:

Relative Humidity		25% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Voltage of the EUT	NV (Normal Voltage)	3.8V
	LV (Low Voltage)	3.3V
	HV (High Voltage)	4.3V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30°C
	HT (High Temperature)	70°C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
2/3/4/5G RF Test System						
BL410 Test Software	BALUN	BL410R	N/A	3.0.1.536	N/A	N/A
Temperature Chamber	OK	OK-TH-100C	OK2022110401	N/A	2025-09-15	2026-09-14
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24
DC Power Supply	ITECH	IT6863A	8000140207571 20008	N/A	2026-07-13	2027-07-12
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2026-06-22	2027-06-21
Radiated Test System						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V22.4	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24
Test Antenna-Horn(18-40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2024-06-15	2027-06-14
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	01414	N/A	2023-11-03	2026-11-02
Test Antenna-Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	02459	N/A	2023-10-26	2026-10-25
Anechoic Chamber	YIHENG	C8-966	N/A	N/A	2024-05-15	2027-05-11
EMI Receiver	Keysight	N9038A	MY55330121	A.20.03	2025-12-26	2026-12-25

4.3 Test Configurations

LTE Band	Bandwidth (MHz)						Modulation Type		RB#			Test Channel		
	1.4	3	5	10	15	20	QPSK	16-QAM	1	Half	Full	LCH	MCH	HCH
Effective (Isotropic) Radiated Power														
2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
5	v	v	v	v	n	n	v	v	v	v	v	v	v	v
12	v	v	v	v	n	n	v	v	v	v	v	v	v	v
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v
14	n	n	v	v	n	n	v	v	v	v	v	v	v	v
66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
71	n	n	v	v	v	v	v	v	v	v	v	v	v	v
Field Strength of Spurious Radiation														
2	Worst Case													
4	Worst Case													
5	Worst Case													
12	Worst Case													
13	Worst Case													
14	Worst Case													
66	Worst Case													
71	Worst Case													
Note 1: The mark “v” means that this configuration is chosen for testing.														
Note 2: The mark “n” means that this bandwidth is not supported.														

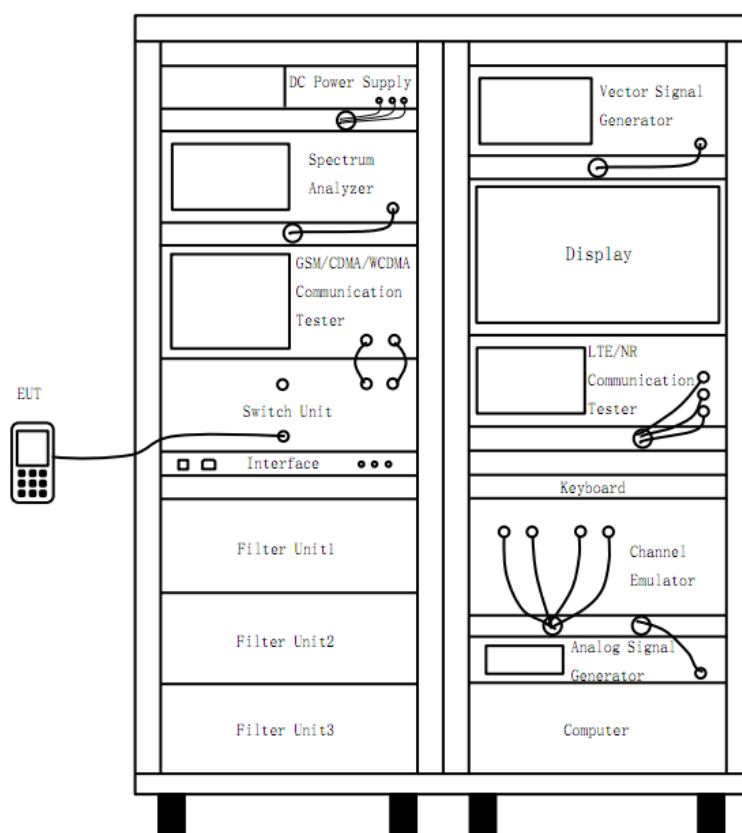
Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Receiver Spurious Emissions	LTE Band 2	--	--	v
AC Power-line Conducted Emissions	LTE Band 2	--	--	v
Note 1: The mark “v” means that this configuration is the worst test mode for Receiver Spurious Emissions and AC Power-line Conducted Emissions measurement.				

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Middle Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711
LTE Band 13	Low Range	5	23205	779.5
		10	---	---
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
		10	---	---
LTE Band 14	Low Range	5	23305	790.5
		10	---	---
	Middle Range	5/10	23330	793
	High Range	5	23355	795.5
		10	---	---
LTE Band 66	Low Range	1.4	131979	1710.7
		3	131987	1711.5
		5	131997	1712.5
		10	132022	1715
		15	132047	1717.5
		20	132072	1720
	Middle Range	1.4/3/5/10/15/20	132322	1745
	High Range	1.4	132665	1779.3
		3	132657	1778.5
		5	132647	1777.5
		10	132622	1775
		15	132597	1772.5
		20	132572	1770
LTE Band 71	Low Range	5	133147	665.5
		10	133172	668
		15	133197	670.5
		20	133222	673
	Middle Range	5/10/15	133297	680.5
		20	133322	683
	High Range	5	133447	695.5
		10	133422	693
		15	133397	690.5
		20	133372	688

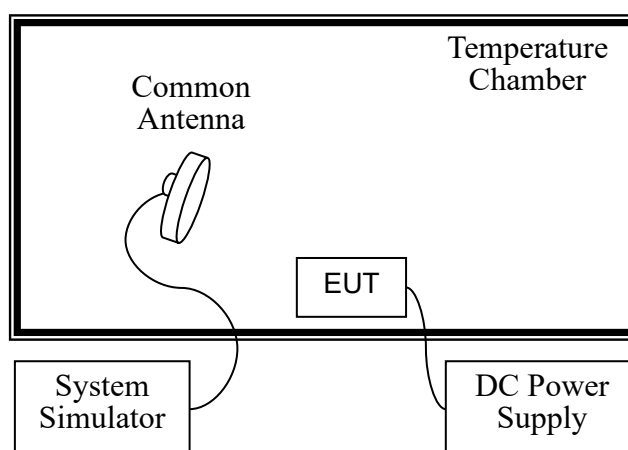
4.4 Test Setup

4.4.1 For Antenna Port Test



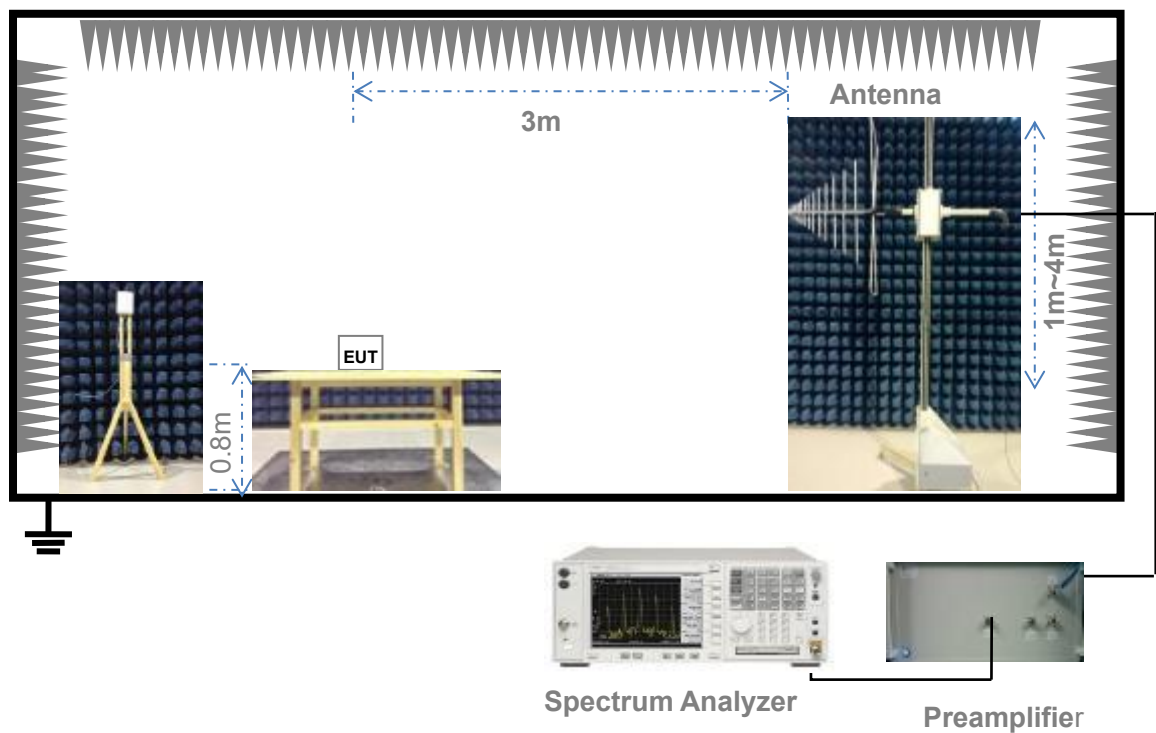
(Diagram 1)

4.4.2 For Frequency Stability Test



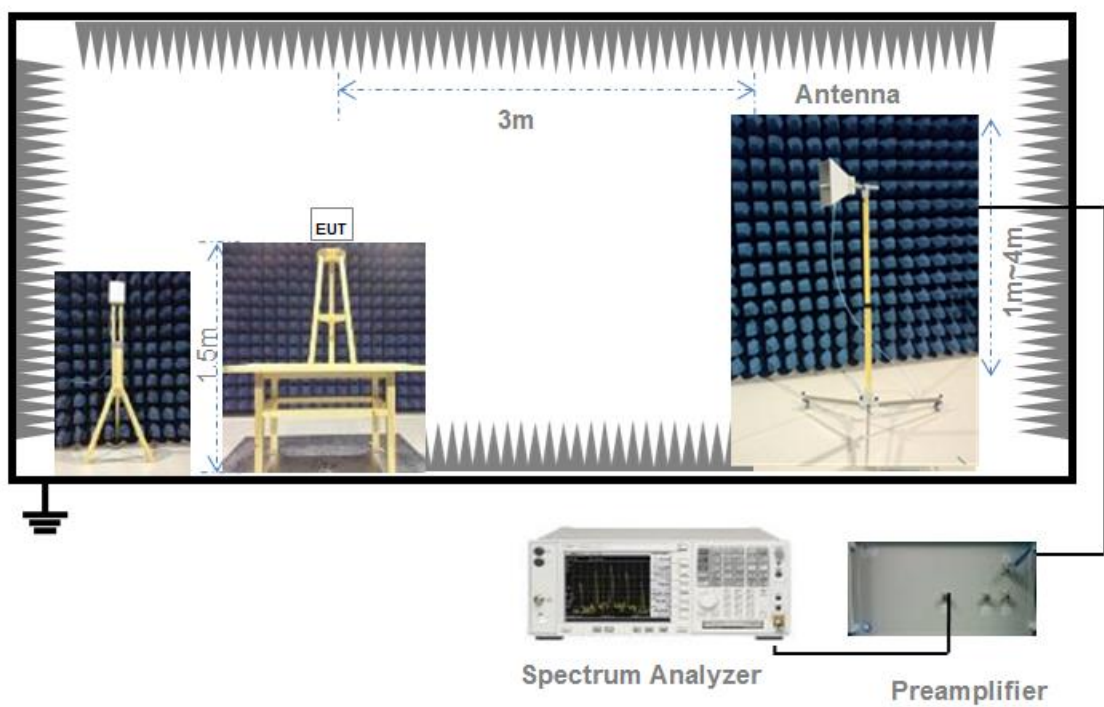
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



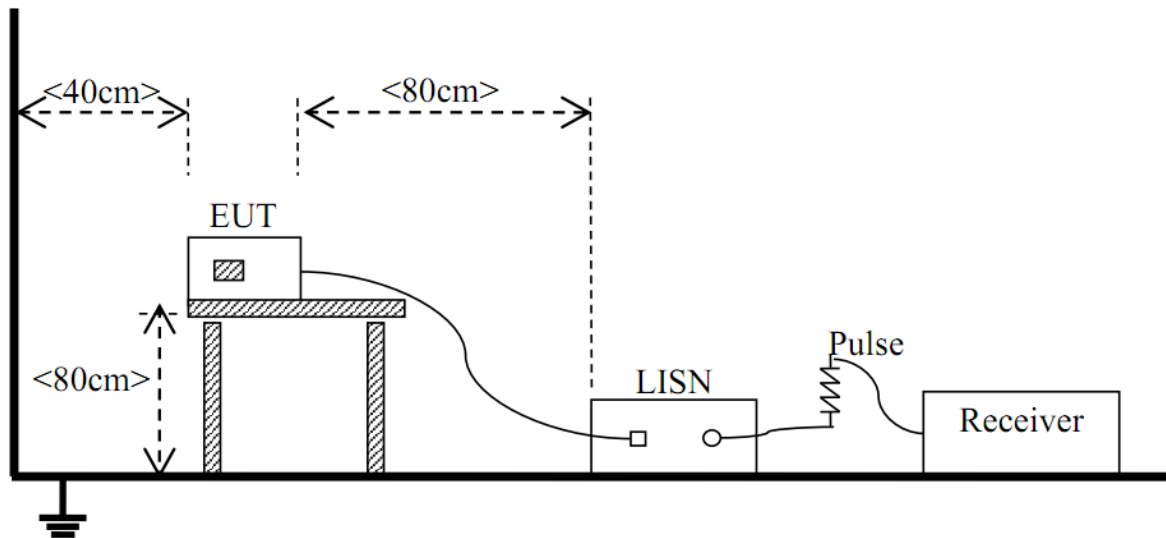
(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

4.4.5 For AC Power-line Conducted Emissions



(Diagram 5)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a) & 96.41(b)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 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.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz 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.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(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.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for 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.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is

100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC section 96.41(b), the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph below:

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	N/A
Category A CBSD	30	20
Category B CBSD ^{note1}	47	37
Note1: Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.		

RSS-Gen § 6.12 & RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-195 § 5.5 & RSS-199 § 5.5 & RSS-140 § 4.3 & RSS-192 § 5.5 & RSS-197 § 5.6 & RSS-198 § 5.5

According to RSS-130 § 4.6.3, The e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

According to RSS-132 § 5.4, the Effective Radiated Power (ERP) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 § 6.4 (SRSP 510), mobile stations and hand-held portables are limited to 2 watts maximum EIRP.

According to RSS-139 § 6.5, the EIRP for mobile and portable transmitters shall not exceed 1 watt.

According to RSS-195 § 5.5, the EIRP of mobile or portable equipment transmitting in the band 2305-2315MHz or the band 2350-2360MHz, employing 3GPP LTE standards, shall not exceed 250mW within 5MHz bandwidth. For other technologies, the EIRP shall not exceed 50mW within any 1MHz bandwidth.

According to RSS-199 § 5.5, Subscriber equipment other than fixed subscriber equipment shall not exceed an e.i.r.p of 2W per channel bandwidth.

According to RSS-140 § 4.3, the equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

According to RSS-192 § 5.5, for Subscriber equipment other than fixed subscriber equipment(Non-SAS), the EIRP shall not exceed 30dBm/channel bandwidth.

According to RSS-197 § 5.6, The maximum e.i.r.p. density of mobile equipment shall not exceed 40 mW in any 1 MHz bandwidth.

According to RSS-198 § 5.5, The Maximum power spectral density for Subscriber equipment other than fixed subscriber equipment shall not exceed 30 dBm/channel bandwidth e.i.r.p.

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;

Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;

Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining

the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

dBd (ERP)=dBi (EIRP) -2.15 dB

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

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBi} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d) & 27.50(j) & 27.50(k)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(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 24.232 (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 section 24.232(e), peak transmit power must be measured over any 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.

According to FCC section 27.50(d) (5) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

RSS-130 § 4.6 & RSS-132 § 5.4 & RSS-133 § 6.4 & RSS-139 § 6.5 & RSS-195 § 5.5

& RSS-199 § 5.5 & RSS-140 § 4.3 & RSS-192 § 5.5 & RSS-197 § 5.6 & RSS-198 § 5.5

According to RSS-130 § 4.6.1, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

According to RSS-132 § 5.4, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to RSS-133 § 6.4, the transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to RSS-139 § 5.5, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

According to RSS-140 § 4.3, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

According to RSS-192 § 5.5, the peak to average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

According to RSS-195 § 5.5.1, the PAPR of the transmitter output power of base and fixed station equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

According to RSS-199 § 5.5, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

According to RSS-198 § 5.5, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both

the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm).

Determine the PAPR from:

$$\text{PAPR (dB)} = P_{Pk} \text{ (dBm)} - P_{Avg} \text{ (dBm)}.$$

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

RSS-Gen § 6.7

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at

the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213

RSS-Gen § 6.11 & RSS-130 § 4.5 & RSS-132 § 5.3 & RSS-133 § 6.3 & RSS-139 § 6.4 & RSS-195 § 5.4
& RSS-199 § 5.4 & RSS-140 § 4.2 & RSS-192 § 5.4 & RSS-197 § 5.3 & RSS-198 § 5.4

RSS-Gen § 6.11

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

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

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

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 C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

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

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54

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

FCC § 90.213

The frequency stability shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

RSS-130 § 4.5

The frequency stability shall be sufficient to ensure that the occupied bandwidth remains within each frequency block range when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS-132 § 5.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

RSS-133 § 6.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

RSS-139 § 6.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-195 § 5.4

The applicant shall ensure frequency stability by showing that the occupied bandwidth is maintained within the range of the operating frequency blocks when testing under the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

RSS-199 § 5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-140 § 4.2

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the

operating frequency block when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS-192 § 5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested at the temperature and supply voltage variations specified in RSS-Gen.

RSS-197 § 5.3

The transmitter frequency stability limit shall be determined as follows:

- a. The frequency offset shall be measured according to the procedure described in RSS-Gen and recorded;
- b. Using a resolution bandwidth of 1% of the occupied bandwidth, a reference point at the unwanted emission level specified in Section 5.7 on the emission mask of the lowest and highest channel shall be selected, and the frequency at these points shall be recorded as f_L and f_H respectively.

The applicant shall ensure frequency stability by showing that f_L minus the frequency offset and f_H plus the frequency offset shall be within the 3650-3700 MHz band..

RSS-198 § 5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested at the temperature and supply voltage variations specified in RSS-Gen.

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-195 § 5.6 & RSS-199 § 5.6 & RSS-140 § 4.4 & RSS-192 § 5.6 & RSS-197 § 5.7 & RSS-198 § 5.6

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.

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.

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

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

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(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.

FCC § 27.53(f)

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

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1) & RSS-139 § 6.6

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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4) & RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

FCC § 27.53(n) (2)

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

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.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. 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. 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 emission are attenuated at least 26 dB below the transmitter power.

RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

RSS-139 § 6.6

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.

RSS-199 § 5.6

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS-195 § 5.6

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P (dBW), by the amount indicated in table below and graphically represented in figure below, where p is the transmitter output power measured in watts.

Frequency (MHz)	Attenuation (dB)	Frequency (MHz)	Attenuation (dB)
<2200	$43+10 \log_{10} (p)$	2324-2328	$61+10 \log_{10} (p)$
2200-2288	$70+10 \log_{10} (p)$	2328-2337	$67+10 \log_{10} (p)$
2288-2292	$67+10 \log_{10} (p)$	2337-2341	$61+10 \log_{10} (p)$
2292-2296	$61+10 \log_{10} (p)$	2341-2345	$55+10 \log_{10} (p)$
2296-2300	$55+10 \log_{10} (p)$	2345-2360	$43+10 \log_{10} (p)$ ^{Note}
2300-2305	$43+10 \log_{10} (p)$	2360-2365	$43+10 \log_{10} (p)$
2305-2320	$43+10 \log_{10} (p)$ ^{Note}	2365-2395	$70+10 \log_{10} (p)$
2320-2324	$55+10 \log_{10} (p)$	> 2395	$43+10 \log_{10} (p)$
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See section 5.2 for the permitted frequency ranges for various equipment types.			

RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

$76 + 10 \log (p)$, dB in a 6.25 kHz band for fixed and base station equipment

$65 + 10 \log (p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log (p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

RSS-192 § 5.6.3

For the unwanted emissions shall not exceed:

wSubscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:

- a. the limits in table below
- b. a limit of -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band

Frequency block group (B)	Offset frequency from the edge of the frequency block group (MHz)			
	0-1	1-5	5-B	>B
10 MHz, 20MHz, 30 MHz and 40 MHz	-13 dBm/1% of B	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz
> 40 MHz	-13 dBm/400 kHz	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz

RSS-197 § 5.7

The unwanted emissions shall be measured at the frequencies of the highest and lowest channel of all bandwidths and types of modulation that the equipment can operate with a resolution bandwidth of 1 MHz or less, but at least 1% of the occupied bandwidth of the transmitter, provided that the measured power is integrated over a 1 MHz bandwidth.

The power of any emissions outside the frequency band 3650-3700 MHz shall be attenuated below the channel transmitter power P (dBW) by $43 + 10 \log(p)$, where p is measured in watts.

RSS-198 § 5.6

The unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits specified in the table below:

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/1% OB*
> 1	-13 dBm/MHz

*OB is the occupied bandwidth

For frequencies between 4200 MHz and 4400 MHz, the unwanted emission of outdoor base station, indoor base station and fixed service equipment shall not exceed a [TRP or total conducted power (sum of conducted power across all antenna connectors) limit of -33 dBm/MHz.

5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions 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 blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-195 § 5.6 & RSS-199 § 5.6 & RSS-140 § 4.4 & RSS-192 § 5.6 & RSS-197 § 5.7 & RSS-198 § 5.6

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.

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.

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

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

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(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.

FCC § 27.53(f)

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

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1) & RSS-139 § 6.6

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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4) & RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

FCC § 27.53(n) (2)

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

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.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) 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 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. 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. 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 emission are attenuated at least 26 dB below the transmitter power.

RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

RSS-139 § 6.6

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.

RSS-199 § 5.6

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746 - 756 MHz and 777 - 787 MHz shall also comply with the following restrictions:

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763 - 775 MHz and 793 - 806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559 - 1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS-195 § 5.6

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P (dBW), by the amount indicated in table below and graphically represented in figure below, where p is the transmitter output power measured in watts.

Frequency (MHz)	Attenuation (dB)	Frequency (MHz)	Attenuation (dB)
<2200	$43+10 \log_{10} (p)$	2324-2328	$61+10 \log_{10} (p)$
2200-2288	$70+10 \log_{10} (p)$	2328-2337	$67+10 \log_{10} (p)$
2288-2292	$67+10 \log_{10} (p)$	2337-2341	$61+10 \log_{10} (p)$
2292-2296	$61+10 \log_{10} (p)$	2341-2345	$55+10 \log_{10} (p)$
2296-2300	$55+10 \log_{10} (p)$	2345-2360	$43+10 \log_{10} (p)$ ^{Note}
2300-2305	$43+10 \log_{10} (p)$	2360-2365	$43+10 \log_{10} (p)$
2305-2320	$43+10 \log_{10} (p)$ ^{Note}	2365-2395	$70+10 \log_{10} (p)$
2320-2324	$55+10 \log_{10} (p)$	> 2395	$43+10 \log_{10} (p)$
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See section 5.2 for the permitted frequency ranges for various equipment types.			

RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

$76 + 10 \log (p)$, dB in a 6.25 kHz band for fixed and base station equipment

$65 + 10 \log (p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log (p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

RSS-192 § 5.6.3

For the unwanted emissions shall not exceed:

wSubscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:

- c. the limits in table below
- d. a limit of -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band

Frequency block group (B)	Offset frequency from the edge of the frequency block group (MHz)			
	0-1	1-5	5-B	>B
10 MHz, 20MHz, 30 MHz and 40 MHz	-13 dBm/1% of B	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz
> 40 MHz	-13 dBm/400 kHz	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz

RSS-197 § 5.7

The unwanted emissions shall be measured at the frequencies of the highest and lowest channel of all bandwidths and types of modulation that the equipment can operate with a resolution bandwidth of 1 MHz or less, but at least 1% of the occupied bandwidth of the transmitter, provided that the measured power is integrated over a 1 MHz bandwidth.

The power of any emissions outside the frequency band 3650-3700 MHz shall be attenuated below the channel transmitter power P (dBW) by $43 + 10 \log(p)$, where p is measured in watts.

RSS-198 § 5.6

The unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits specified in the table below:

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/1% OB*
> 1	-13 dBm/MHz

*OB is the occupied bandwidth

For frequencies between 4200 MHz and 4400 MHz, the unwanted emission of outdoor base station, indoor base station and fixed service equipment shall not exceed a [TRP or total conducted power (sum of conducted power across all antenna connectors) limit of -33 dBm/MHz.

5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. The center of the spectrum analyzer was set to block edge frequency.
5. Band edge are tested with 1%*cBW (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 * \text{Span} / \text{RBW}$$

$$\text{VBW} = 3 \text{RBW}$$

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, 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. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10 * \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

RSS-Gen § 6.13 & RSS-130 § 4.7 & RSS-132 § 5.5 & RSS-133 § 6.5 & RSS-139 § 6.6 & RSS-195 § 5.6 & RSS-199 § 5.6 & RSS-140 § 4.4 & RSS-192 § 5.6 & RSS-197 § 5.7 & RSS-198 § 5.6

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.

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.

FCC § 22.917(a) & 24.238(a) & RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

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

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

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

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(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.

FCC § 27.53(f)

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

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz 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 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1) & RSS-139 § 6.6

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.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4) & RSS-199 § 4.5

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

FCC § 27.53(n) (2)

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

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.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, 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 all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) 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 758–775 MHz and 788–805 MHz bands, all emissions including harmonics 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.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. 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. 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 emission are attenuated at least 26 dB below the transmitter power.

RSS-132 § 5.5 & RSS-133 § 6.5

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. This is calculated to be -13 dBm.

RSS-139 § 6.6

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.

RSS-199 § 5.6

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

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.

RSS-130 § 4.7

The unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10}(P)$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined above, equipment operating in the frequency bands 746 - 756 MHz and 777 - 787 MHz shall also comply with the following restrictions:

- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763 - 775 MHz and 793 - 806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - (i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - (ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- (b) The e.i.r.p. in the band 1559 - 1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS-195 § 5.6

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P (dBW), by the amount indicated in table below and graphically represented in figure below, where p is the transmitter output power measured in watts.

Frequency (MHz)	Attenuation (dB)	Frequency (MHz)	Attenuation (dB)
<2200	$43+10 \log_{10} (p)$	2324-2328	$61+10 \log_{10} (p)$
2200-2288	$70+10 \log_{10} (p)$	2328-2337	$67+10 \log_{10} (p)$
2288-2292	$67+10 \log_{10} (p)$	2337-2341	$61+10 \log_{10} (p)$
2292-2296	$61+10 \log_{10} (p)$	2341-2345	$55+10 \log_{10} (p)$
2296-2300	$55+10 \log_{10} (p)$	2345-2360	$43+10 \log_{10} (p)$ ^{Note}
2300-2305	$43+10 \log_{10} (p)$	2360-2365	$43+10 \log_{10} (p)$
2305-2320	$43+10 \log_{10} (p)$ ^{Note}	2365-2395	$70+10 \log_{10} (p)$
2320-2324	$55+10 \log_{10} (p)$	> 2395	$43+10 \log_{10} (p)$
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See section 5.2 for the permitted frequency ranges for various equipment types.			

RSS-140 § 4.4

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

For any frequency between 769-775 MHz and 799-806 MHz:

$76 + 10 \log (p)$, dB in a 6.25 kHz band for fixed and base station equipment

$65 + 10 \log (p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment

For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log (p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

RSS-192 § 5.6.3

For the unwanted emissions shall not exceed:

wSubscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:

- e. the limits in table below
- f. a limit of -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band

Frequency block group (B)	Offset frequency from the edge of the frequency block group (MHz)			
	0-1	1-5	5-B	>B
10 MHz, 20MHz, 30 MHz and 40 MHz	-13 dBm/1% of B	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz
> 40 MHz	-13 dBm/400 kHz	-10 dBm/MHz	-13 dBm/MHz	-25 dBm/MHz

RSS-197 § 5.7

The unwanted emissions shall be measured at the frequencies of the highest and lowest channel of all bandwidths and types of modulation that the equipment can operate with a resolution bandwidth of 1 MHz or less, but at least 1% of the occupied bandwidth of the transmitter, provided that the measured power is integrated over a 1 MHz bandwidth.

The power of any emissions outside the frequency band 3650-3700 MHz shall be attenuated below the channel transmitter power P (dBW) by $43 + 10 \log(p)$, where p is measured in watts.

RSS-198 § 5.6

The unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits specified in the table below:

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/1% OB*
> 1	-13 dBm/MHz

*OB is the occupied bandwidth

For frequencies between 4200 MHz and 4400 MHz, the unwanted emission of outdoor base station, indoor base station and fixed service equipment shall not exceed a [TRP or total conducted power (sum of conducted power across all antenna connectors) limit of -33 dBm/MHz.

5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for

horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.7.4 Test Result

Please refer to ANNEX A.7.

5.8 Receiver Spurious Emissions

5.8.1 Limit

RSS-Gen § 7.3/4 & RSS-133 § 6.6 & RSS-197 § 5.8

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz.

As an alternative to CISPR quasi-peak or average measurements, compliance with the emission limit can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization, as required, with a measurement bandwidth equal to, or greater than, the applicable CISPR quasi-peak bandwidth or 1 MHz bandwidth, respectively.

Receiver Radiated Limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna ports. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least five times the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated emissions limits shown in Table 2 below.

Table 2 –Receiver radiated emissions limits

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3 metres)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Receiver Conducted Limits

If the receiver has a detachable antenna of known impedance, an antenna-conducted spurious emissions measurement is permitted as an alternative to radiated measurement. However, the radiated method is preferred.

The antenna-conducted test shall be performed with the antenna disconnected and with the receiver antenna port connected to a measuring instrument having equal input impedance to that specified for the antenna. The RF cable connecting the receiver under test to the measuring instrument shall also have the same impedance to that specified for the receiver's antenna.

The spurious emissions from the receiver at any discrete frequency, measured at the antenna port by the antenna-conducted method, shall not exceed 2 nW in the frequency range 30-1000 MHz and 5 nW

above 1 GHz.

5.8.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

5.8.4 Test Result

Please refer to ANNEX A.8.

5.9 AC Power-line Conducted Emissions

5.9.1 Limit

RSS-Gen § 8.8

For AC power-line conducted emissions, both quasi-peak and average detectors having the characteristics specified in CAN/CSA-CISPR 16-1-1:15 for the 150 kHz to 30 MHz frequency range shall be employed.

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 3, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 3 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 3 –AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note1}	56 to 46 ^{Note1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

5.9.2 Test Setup

The section 4.4.5 (Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
1.4 MHz	LCH	QPSK	RB1#0	21.91	1.66	23.57	0.228	2.000	Pass
			RB1#3	21.92	1.66	23.58	0.228	2.000	Pass
			RB1#5	21.89	1.66	23.55	0.226	2.000	Pass
			RB3#0	21.97	1.66	23.63	0.231	2.000	Pass
			RB3#2	21.91	1.66	23.57	0.228	2.000	Pass
			RB3#3	21.87	1.66	23.53	0.225	2.000	Pass
			RB6#0	20.96	1.66	22.62	0.183	2.000	Pass
		16-QAM	RB1#0	20.56	1.66	22.22	0.167	2.000	Pass
			RB1#3	20.61	1.66	22.27	0.169	2.000	Pass
			RB1#5	20.51	1.66	22.17	0.165	2.000	Pass
			RB3#0	20.57	1.66	22.23	0.167	2.000	Pass
			RB3#2	20.64	1.66	22.30	0.170	2.000	Pass
			RB3#3	20.64	1.66	22.30	0.170	2.000	Pass
			RB6#0	19.66	1.66	21.32	0.136	2.000	Pass
	MCH	QPSK	RB1#0	22.2	1.66	23.86	0.243	2.000	Pass
			RB1#3	22.18	1.66	23.84	0.242	2.000	Pass
			RB1#5	22.13	1.66	23.79	0.239	2.000	Pass
			RB3#0	22.18	1.66	23.84	0.242	2.000	Pass
			RB3#2	22.19	1.66	23.85	0.243	2.000	Pass
			RB3#3	22.08	1.66	23.74	0.237	2.000	Pass
			RB6#0	21.11	1.66	22.77	0.189	2.000	Pass
		16-QAM	RB1#0	21.31	1.66	22.97	0.198	2.000	Pass
			RB1#3	21.49	1.66	23.15	0.207	2.000	Pass
			RB1#5	21.27	1.66	22.93	0.196	2.000	Pass
			RB3#0	21.31	1.66	22.97	0.198	2.000	Pass
			RB3#2	21.33	1.66	22.99	0.199	2.000	Pass
			RB3#3	21.36	1.66	23.02	0.200	2.000	Pass
			RB6#0	20.44	1.66	22.10	0.162	2.000	Pass
	HCH	QPSK	RB1#0	21.99	1.66	23.65	0.232	2.000	Pass
			RB1#3	22.17	1.66	23.83	0.242	2.000	Pass
			RB1#5	21.92	1.66	23.58	0.228	2.000	Pass
			RB3#0	21.97	1.66	23.63	0.231	2.000	Pass
			RB3#2	21.93	1.66	23.59	0.229	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
			RB3#3	21.92	1.66	23.58	0.228	2.000	Pass
			RB6#0	21.11	1.66	22.77	0.189	2.000	Pass
		16-QAM	RB1#0	20.82	1.66	22.48	0.177	2.000	Pass
			RB1#3	20.79	1.66	22.45	0.176	2.000	Pass
			RB1#5	20.7	1.66	22.36	0.172	2.000	Pass
			RB3#0	21.14	1.66	22.80	0.191	2.000	Pass
			RB3#2	21.17	1.66	22.83	0.192	2.000	Pass
			RB3#3	21.15	1.66	22.81	0.191	2.000	Pass
			RB6#0	20.32	1.66	21.98	0.158	2.000	Pass
3 MHz	LCH	QPSK	RB1#0	21.87	1.66	23.53	0.225	2.000	Pass
			RB1#7	21.91	1.66	23.57	0.228	2.000	Pass
			RB1#14	21.96	1.66	23.62	0.230	2.000	Pass
			RB8#0	20.89	1.66	22.55	0.180	2.000	Pass
			RB8#4	20.94	1.66	22.60	0.182	2.000	Pass
			RB8#7	20.95	1.66	22.61	0.182	2.000	Pass
			RB15#0	20.93	1.66	22.59	0.182	2.000	Pass
		16-QAM	RB1#0	21.1	1.66	22.76	0.189	2.000	Pass
			RB1#7	21.16	1.66	22.82	0.191	2.000	Pass
			RB1#14	21.2	1.66	22.86	0.193	2.000	Pass
			RB8#0	19.83	1.66	21.49	0.141	2.000	Pass
			RB8#4	20	1.66	21.66	0.147	2.000	Pass
			RB8#7	20.01	1.66	21.67	0.147	2.000	Pass
			RB15#0	19.88	1.66	21.54	0.143	2.000	Pass
	MCH	QPSK	RB1#0	21.94	1.66	23.60	0.229	2.000	Pass
			RB1#7	22.24	1.66	23.90	0.245	2.000	Pass
			RB1#14	22.27	1.66	23.93	0.247	2.000	Pass
			RB8#0	21.14	1.66	22.80	0.191	2.000	Pass
			RB8#4	21.09	1.66	22.75	0.188	2.000	Pass
			RB8#7	20.96	1.66	22.62	0.183	2.000	Pass
			RB15#0	21.06	1.66	22.72	0.187	2.000	Pass
		16-QAM	RB1#0	21.33	1.66	22.99	0.199	2.000	Pass
			RB1#7	21.11	1.66	22.77	0.189	2.000	Pass
			RB1#14	21.02	1.66	22.68	0.185	2.000	Pass
			RB8#0	20.4	1.66	22.06	0.161	2.000	Pass
			RB8#4	20.36	1.66	22.02	0.159	2.000	Pass
			RB8#7	20.22	1.66	21.88	0.154	2.000	Pass
			RB15#0	20.01	1.66	21.67	0.147	2.000	Pass
	HCH	QPSK	RB1#0	22.05	1.66	23.71	0.235	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
			RB1#7	22.04	1.66	23.70	0.234	2.000	Pass
			RB1#14	21.9	1.66	23.56	0.227	2.000	Pass
			RB8#0	21.16	1.66	22.82	0.191	2.000	Pass
			RB8#4	21.06	1.66	22.72	0.187	2.000	Pass
			RB8#7	21.1	1.66	22.76	0.189	2.000	Pass
			RB15#0	21.11	1.66	22.77	0.189	2.000	Pass
		16-QAM	RB1#0	21.04	1.66	22.70	0.186	2.000	Pass
			RB1#7	20.79	1.66	22.45	0.176	2.000	Pass
			RB1#14	20.5	1.66	22.16	0.164	2.000	Pass
			RB8#0	20.37	1.66	22.03	0.160	2.000	Pass
			RB8#4	20.25	1.66	21.91	0.155	2.000	Pass
			RB8#7	19.92	1.66	21.58	0.144	2.000	Pass
			RB15#0	20.16	1.66	21.82	0.152	2.000	Pass
5 MHz	LCH	QPSK	RB1#0	21.69	1.66	23.35	0.216	2.000	Pass
			RB1#13	22.07	1.66	23.73	0.236	2.000	Pass
			RB1#24	21.87	1.66	23.53	0.225	2.000	Pass
			RB12#0	20.83	1.66	22.49	0.177	2.000	Pass
			RB12#6	20.89	1.66	22.55	0.180	2.000	Pass
			RB12#13	20.9	1.66	22.56	0.180	2.000	Pass
			RB25#0	20.81	1.66	22.47	0.177	2.000	Pass
		16-QAM	RB1#0	20.13	1.66	21.79	0.151	2.000	Pass
			RB1#13	20.65	1.66	22.31	0.170	2.000	Pass
			RB1#24	20.58	1.66	22.24	0.167	2.000	Pass
			RB12#0	19.69	1.66	21.35	0.136	2.000	Pass
			RB12#6	19.76	1.66	21.42	0.139	2.000	Pass
			RB12#13	19.98	1.66	21.64	0.146	2.000	Pass
			RB25#0	19.94	1.66	21.60	0.145	2.000	Pass
	MCH	QPSK	RB1#0	21.82	1.66	23.48	0.223	2.000	Pass
			RB1#13	22.13	1.66	23.79	0.239	2.000	Pass
			RB1#24	21.97	1.66	23.63	0.231	2.000	Pass
			RB12#0	21.13	1.66	22.79	0.190	2.000	Pass
			RB12#6	20.99	1.66	22.65	0.184	2.000	Pass
			RB12#13	20.97	1.66	22.63	0.183	2.000	Pass
			RB25#0	21.05	1.66	22.71	0.187	2.000	Pass
		16-QAM	RB1#0	20.86	1.66	22.52	0.179	2.000	Pass
			RB1#13	20.89	1.66	22.55	0.180	2.000	Pass
			RB1#24	20.68	1.66	22.34	0.171	2.000	Pass
			RB12#0	20.06	1.66	21.72	0.149	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
			RB12#6	19.92	1.66	21.58	0.144	2.000	Pass
			RB12#13	19.89	1.66	21.55	0.143	2.000	Pass
			RB25#0	20.13	1.66	21.79	0.151	2.000	Pass
	HCH	QPSK	RB1#0	21.98	1.66	23.64	0.231	2.000	Pass
			RB1#13	22.19	1.66	23.85	0.243	2.000	Pass
			RB1#24	21.96	1.66	23.62	0.230	2.000	Pass
			RB12#0	21.22	1.66	22.88	0.194	2.000	Pass
			RB12#6	21.1	1.66	22.76	0.189	2.000	Pass
			RB12#13	20.91	1.66	22.57	0.181	2.000	Pass
			RB25#0	21.2	1.66	22.86	0.193	2.000	Pass
		16-QAM	RB1#0	21.21	1.66	22.87	0.194	2.000	Pass
			RB1#13	20.89	1.66	22.55	0.180	2.000	Pass
			RB1#24	20.62	1.66	22.28	0.169	2.000	Pass
			RB12#0	20.11	1.66	21.77	0.150	2.000	Pass
			RB12#6	20.01	1.66	21.67	0.147	2.000	Pass
			RB12#13	19.92	1.66	21.58	0.144	2.000	Pass
			RB25#0	20.19	1.66	21.85	0.153	2.000	Pass
10 MHz	LCH	QPSK	RB1#0	21.86	1.66	23.52	0.225	2.000	Pass
			RB1#25	22.13	1.66	23.79	0.239	2.000	Pass
			RB1#49	22.08	1.66	23.74	0.237	2.000	Pass
			RB25#0	20.77	1.66	22.43	0.175	2.000	Pass
			RB25#13	20.97	1.66	22.63	0.183	2.000	Pass
			RB25#25	20.97	1.66	22.63	0.183	2.000	Pass
			RB50#0	20.79	1.66	22.45	0.176	2.000	Pass
		16-QAM	RB1#0	21.27	1.66	22.93	0.196	2.000	Pass
			RB1#25	21.86	1.66	23.52	0.225	2.000	Pass
			RB1#49	22.09	1.66	23.75	0.237	2.000	Pass
			RB25#0	19.99	1.66	21.65	0.146	2.000	Pass
			RB25#13	20.14	1.66	21.80	0.151	2.000	Pass
			RB25#25	20.09	1.66	21.75	0.150	2.000	Pass
			RB50#0	19.75	1.66	21.41	0.138	2.000	Pass
	MCH	QPSK	RB1#0	22.07	1.66	23.73	0.236	2.000	Pass
			RB1#25	22.07	1.66	23.73	0.236	2.000	Pass
			RB1#49	21.77	1.66	23.43	0.220	2.000	Pass
			RB25#0	21.2	1.66	22.86	0.193	2.000	Pass
			RB25#13	21.02	1.66	22.68	0.185	2.000	Pass
			RB25#25	20.97	1.66	22.63	0.183	2.000	Pass
			RB50#0	21.22	1.66	22.88	0.194	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
15 MHz	HCH	16-QAM	RB1#0	21.55	1.66	23.21	0.209	2.000	Pass
			RB1#25	21.64	1.66	23.30	0.214	2.000	Pass
			RB1#49	21.28	1.66	22.94	0.197	2.000	Pass
			RB25#0	20.31	1.66	21.97	0.157	2.000	Pass
			RB25#13	20.12	1.66	21.78	0.151	2.000	Pass
			RB25#25	19.92	1.66	21.58	0.144	2.000	Pass
			RB50#0	20.15	1.66	21.81	0.152	2.000	Pass
		QPSK	RB1#0	21.97	1.66	23.63	0.231	2.000	Pass
			RB1#25	22.59	1.66	24.25	0.266	2.000	Pass
			RB1#49	21.85	1.66	23.51	0.224	2.000	Pass
			RB25#0	21.15	1.66	22.81	0.191	2.000	Pass
			RB25#13	21.27	1.66	22.93	0.196	2.000	Pass
			RB25#25	21.08	1.66	22.74	0.188	2.000	Pass
			RB50#0	21.14	1.66	22.80	0.191	2.000	Pass
		16-QAM	RB1#0	20.91	1.66	22.57	0.181	2.000	Pass
			RB1#25	21.87	1.66	23.53	0.225	2.000	Pass
			RB1#49	21.05	1.66	22.71	0.187	2.000	Pass
			RB25#0	20.4	1.66	22.06	0.161	2.000	Pass
			RB25#13	20.52	1.66	22.18	0.165	2.000	Pass
			RB25#25	20.37	1.66	22.03	0.160	2.000	Pass
			RB50#0	20.14	1.66	21.80	0.151	2.000	Pass
	LCH	QPSK	RB1#0	21.86	1.66	23.52	0.225	2.000	Pass
			RB1#38	22.33	1.66	23.99	0.251	2.000	Pass
			RB1#74	22.11	1.66	23.77	0.238	2.000	Pass
			RB36#0	20.82	1.66	22.48	0.177	2.000	Pass
			RB36#19	21.05	1.66	22.71	0.187	2.000	Pass
			RB36#39	20.96	1.66	22.62	0.183	2.000	Pass
			RB75#0	20.83	1.66	22.49	0.177	2.000	Pass
		16-QAM	RB1#0	21.32	1.66	22.98	0.199	2.000	Pass
			RB1#38	22.23	1.66	23.89	0.245	2.000	Pass
			RB1#74	21.44	1.66	23.10	0.204	2.000	Pass
			RB36#0	19.74	1.66	21.40	0.138	2.000	Pass
			RB36#19	20.03	1.66	21.69	0.148	2.000	Pass
			RB36#39	20.03	1.66	21.69	0.148	2.000	Pass
			RB75#0	19.79	1.66	21.45	0.140	2.000	Pass
	MCH	QPSK	RB1#0	21.93	1.66	23.59	0.229	2.000	Pass
			RB1#38	21.99	1.66	23.65	0.232	2.000	Pass
			RB1#74	21.7	1.66	23.36	0.217	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
			RB36#0	21.17	1.66	22.83	0.192	2.000	Pass
			RB36#19	20.99	1.66	22.65	0.184	2.000	Pass
			RB36#39	20.78	1.66	22.44	0.175	2.000	Pass
			RB75#0	21.09	1.66	22.75	0.188	2.000	Pass
		16-QAM	RB1#0	21.47	1.66	23.13	0.206	2.000	Pass
			RB1#38	21.69	1.66	23.35	0.216	2.000	Pass
			RB1#74	21.24	1.66	22.90	0.195	2.000	Pass
			RB36#0	20.26	1.66	21.92	0.156	2.000	Pass
			RB36#19	19.9	1.66	21.56	0.143	2.000	Pass
			RB36#39	19.85	1.66	21.51	0.142	2.000	Pass
			RB75#0	20.19	1.66	21.85	0.153	2.000	Pass
	HCH	QPSK	RB1#0	21.69	1.66	23.35	0.216	2.000	Pass
			RB1#38	22.35	1.66	24.01	0.252	2.000	Pass
			RB1#74	21.9	1.66	23.56	0.227	2.000	Pass
			RB36#0	20.87	1.66	22.53	0.179	2.000	Pass
			RB36#19	21.26	1.66	22.92	0.196	2.000	Pass
			RB36#39	21.23	1.66	22.89	0.195	2.000	Pass
			RB75#0	20.94	1.66	22.60	0.182	2.000	Pass
		16-QAM	RB1#0	20.79	1.66	22.45	0.176	2.000	Pass
			RB1#38	21.3	1.66	22.96	0.198	2.000	Pass
			RB1#74	20.94	1.66	22.60	0.182	2.000	Pass
			RB36#0	19.79	1.66	21.45	0.140	2.000	Pass
			RB36#19	20.3	1.66	21.96	0.157	2.000	Pass
			RB36#39	20.23	1.66	21.89	0.155	2.000	Pass
			RB75#0	20.01	1.66	21.67	0.147	2.000	Pass
20 MHz	LCH	QPSK	RB1#0	21.65	1.66	23.31	0.214	2.000	Pass
			RB1#50	22.26	1.66	23.92	0.247	2.000	Pass
			RB1#99	22.12	1.66	23.78	0.239	2.000	Pass
			RB50#0	20.81	1.66	22.47	0.177	2.000	Pass
			RB50#25	20.98	1.66	22.64	0.184	2.000	Pass
			RB50#50	20.94	1.66	22.60	0.182	2.000	Pass
			RB100#0	20.81	1.66	22.47	0.177	2.000	Pass
		16-QAM	RB1#0	21.24	1.66	22.90	0.195	2.000	Pass
			RB1#50	21.87	1.66	23.53	0.225	2.000	Pass
			RB1#99	21.58	1.66	23.24	0.211	2.000	Pass
			RB50#0	19.81	1.66	21.47	0.140	2.000	Pass
			RB50#25	20.16	1.66	21.82	0.152	2.000	Pass
			RB50#50	20.02	1.66	21.68	0.147	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND2									
	MCH	QPSK	RB100#0	19.88	1.66	21.54	0.143	2.000	Pass
			RB1#0	22.2	1.66	23.86	0.243	2.000	Pass
			RB1#50	22.33	1.66	23.99	0.251	2.000	Pass
			RB1#99	21.82	1.66	23.48	0.223	2.000	Pass
			RB50#0	21.13	1.66	22.79	0.190	2.000	Pass
			RB50#25	20.98	1.66	22.64	0.184	2.000	Pass
			RB50#50	20.8	1.66	22.46	0.176	2.000	Pass
			RB100#0	21.14	1.66	22.80	0.191	2.000	Pass
		16-QAM	RB1#0	20.88	1.66	22.54	0.179	2.000	Pass
			RB1#50	21.04	1.66	22.70	0.186	2.000	Pass
			RB1#99	20.36	1.66	22.02	0.159	2.000	Pass
			RB50#0	20.33	1.66	21.99	0.158	2.000	Pass
			RB50#25	20.08	1.66	21.74	0.149	2.000	Pass
			RB50#50	19.88	1.66	21.54	0.143	2.000	Pass
			RB100#0	20.18	1.66	21.84	0.153	2.000	Pass
	HCH	QPSK	RB1#0	21.75	1.66	23.41	0.219	2.000	Pass
			RB1#50	22.2	1.66	23.86	0.243	2.000	Pass
			RB1#99	21.97	1.66	23.63	0.231	2.000	Pass
			RB50#0	20.86	1.66	22.52	0.179	2.000	Pass
			RB50#25	21.04	1.66	22.70	0.186	2.000	Pass
			RB50#50	21.21	1.66	22.87	0.194	2.000	Pass
			RB100#0	20.95	1.66	22.61	0.182	2.000	Pass
		16-QAM	RB1#0	21.7	1.66	23.36	0.217	2.000	Pass
			RB1#50	22.22	1.66	23.88	0.244	2.000	Pass
			RB1#99	22.05	1.66	23.71	0.235	2.000	Pass
			RB50#0	19.68	1.66	21.34	0.136	2.000	Pass
			RB50#25	19.98	1.66	21.64	0.146	2.000	Pass
			RB50#50	20.24	1.66	21.90	0.155	2.000	Pass
			RB100#0	19.9	1.66	21.56	0.143	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
1.4 MHz	LCH	QPSK	RB1#0	21.74	1.85	23.59	0.229	1.000	Pass
			RB1#3	21.56	1.85	23.41	0.219	1.000	Pass
			RB1#5	21.55	1.85	23.40	0.219	1.000	Pass
			RB3#0	21.72	1.85	23.57	0.228	1.000	Pass
			RB3#2	21.73	1.85	23.58	0.228	1.000	Pass
			RB3#3	21.74	1.85	23.59	0.229	1.000	Pass
			RB6#0	20.63	1.85	22.48	0.177	1.000	Pass
		16-QAM	RB1#0	20.63	1.85	22.48	0.177	1.000	Pass
			RB1#3	20.67	1.85	22.52	0.179	1.000	Pass
			RB1#5	20.6	1.85	22.45	0.176	1.000	Pass
			RB3#0	20.72	1.85	22.57	0.181	1.000	Pass
			RB3#2	20.76	1.85	22.61	0.182	1.000	Pass
			RB3#3	20.72	1.85	22.57	0.181	1.000	Pass
			RB6#0	19.74	1.85	21.59	0.144	1.000	Pass
	MCH	QPSK	RB1#0	21.59	1.85	23.44	0.221	1.000	Pass
			RB1#3	21.7	1.85	23.55	0.226	1.000	Pass
			RB1#5	21.68	1.85	23.53	0.225	1.000	Pass
			RB3#0	21.62	1.85	23.47	0.222	1.000	Pass
			RB3#2	21.7	1.85	23.55	0.226	1.000	Pass
			RB3#3	21.82	1.85	23.67	0.233	1.000	Pass
			RB6#0	20.76	1.85	22.61	0.182	1.000	Pass
		16-QAM	RB1#0	20.99	1.85	22.84	0.192	1.000	Pass
			RB1#3	21.08	1.85	22.93	0.196	1.000	Pass
			RB1#5	20.98	1.85	22.83	0.192	1.000	Pass
			RB3#0	20.63	1.85	22.48	0.177	1.000	Pass
			RB3#2	20.76	1.85	22.61	0.182	1.000	Pass
			RB3#3	20.81	1.85	22.66	0.185	1.000	Pass
			RB6#0	19.77	1.85	21.62	0.145	1.000	Pass
	HCH	QPSK	RB1#0	21.39	1.85	23.24	0.211	1.000	Pass
			RB1#3	21.51	1.85	23.36	0.217	1.000	Pass
			RB1#5	21.36	1.85	23.21	0.209	1.000	Pass
			RB3#0	21.65	1.85	23.50	0.224	1.000	Pass
			RB3#2	21.65	1.85	23.50	0.224	1.000	Pass
			RB3#3	21.67	1.85	23.52	0.225	1.000	Pass
			RB6#0	20.6	1.85	22.45	0.176	1.000	Pass
		16-QAM	RB1#0	20.32	1.85	22.17	0.165	1.000	Pass
			RB1#3	20.22	1.85	22.07	0.161	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
3 MHz			RB1#5	20.11	1.85	21.96	0.157	1.000	Pass
			RB3#0	20.59	1.85	22.44	0.175	1.000	Pass
			RB3#2	20.67	1.85	22.52	0.179	1.000	Pass
			RB3#3	20.49	1.85	22.34	0.171	1.000	Pass
			RB6#0	19.47	1.85	21.32	0.136	1.000	Pass
	LCH	QPSK	RB1#0	21.69	1.85	23.54	0.226	1.000	Pass
			RB1#7	21.34	1.85	23.19	0.208	1.000	Pass
			RB1#14	21.34	1.85	23.19	0.208	1.000	Pass
			RB8#0	20.66	1.85	22.51	0.178	1.000	Pass
			RB8#4	20.62	1.85	22.47	0.177	1.000	Pass
			RB8#7	20.51	1.85	22.36	0.172	1.000	Pass
			RB15#0	20.5	1.85	22.35	0.172	1.000	Pass
		16-QAM	RB1#0	21.03	1.85	22.88	0.194	1.000	Pass
			RB1#7	20.8	1.85	22.65	0.184	1.000	Pass
			RB1#14	20.5	1.85	22.35	0.172	1.000	Pass
			RB8#0	19.91	1.85	21.76	0.150	1.000	Pass
			RB8#4	19.87	1.85	21.72	0.149	1.000	Pass
			RB8#7	19.76	1.85	21.61	0.145	1.000	Pass
			RB15#0	19.65	1.85	21.50	0.141	1.000	Pass
	MCH	QPSK	RB1#0	21.65	1.85	23.50	0.224	1.000	Pass
			RB1#7	21.91	1.85	23.76	0.238	1.000	Pass
			RB1#14	21.95	1.85	23.80	0.240	1.000	Pass
			RB8#0	20.75	1.85	22.60	0.182	1.000	Pass
			RB8#4	20.72	1.85	22.57	0.181	1.000	Pass
			RB8#7	20.74	1.85	22.59	0.182	1.000	Pass
			RB15#0	20.59	1.85	22.44	0.175	1.000	Pass
		16-QAM	RB1#0	20.96	1.85	22.81	0.191	1.000	Pass
			RB1#7	21.2	1.85	23.05	0.202	1.000	Pass
			RB1#14	21.54	1.85	23.39	0.218	1.000	Pass
			RB8#0	19.8	1.85	21.65	0.146	1.000	Pass
			RB8#4	19.95	1.85	21.80	0.151	1.000	Pass
			RB8#7	19.99	1.85	21.84	0.153	1.000	Pass
			RB15#0	19.91	1.85	21.76	0.150	1.000	Pass
	HCH	QPSK	RB1#0	21.35	1.85	23.20	0.209	1.000	Pass
			RB1#7	21.49	1.85	23.34	0.216	1.000	Pass
			RB1#14	21.29	1.85	23.14	0.206	1.000	Pass
			RB8#0	20.52	1.85	22.37	0.173	1.000	Pass
			RB8#4	20.44	1.85	22.29	0.169	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
			RB8#7	20.47	1.85	22.32	0.171	1.000	Pass
			RB15#0	20.47	1.85	22.32	0.171	1.000	Pass
		16-QAM	RB1#0	20.25	1.85	22.10	0.162	1.000	Pass
			RB1#7	20.1	1.85	21.95	0.157	1.000	Pass
			RB1#14	19.96	1.85	21.81	0.152	1.000	Pass
			RB8#0	19.4	1.85	21.25	0.133	1.000	Pass
			RB8#4	19.32	1.85	21.17	0.131	1.000	Pass
			RB8#7	19.36	1.85	21.21	0.132	1.000	Pass
			RB15#0	19.46	1.85	21.31	0.135	1.000	Pass
5 MHz	LCH	QPSK	RB1#0	21.68	1.85	23.53	0.225	1.000	Pass
			RB1#13	21.45	1.85	23.30	0.214	1.000	Pass
			RB1#24	21.36	1.85	23.21	0.209	1.000	Pass
			RB12#0	20.58	1.85	22.43	0.175	1.000	Pass
			RB12#6	20.52	1.85	22.37	0.173	1.000	Pass
			RB12#13	20.39	1.85	22.24	0.167	1.000	Pass
			RB25#0	20.48	1.85	22.33	0.171	1.000	Pass
		16-QAM	RB1#0	19.92	1.85	21.77	0.150	1.000	Pass
			RB1#13	20.09	1.85	21.94	0.156	1.000	Pass
			RB1#24	19.76	1.85	21.61	0.145	1.000	Pass
			RB12#0	19.68	1.85	21.53	0.142	1.000	Pass
			RB12#6	19.61	1.85	21.46	0.140	1.000	Pass
			RB12#13	19.28	1.85	21.13	0.130	1.000	Pass
			RB25#0	19.68	1.85	21.53	0.142	1.000	Pass
	MCH	QPSK	RB1#0	21.58	1.85	23.43	0.220	1.000	Pass
			RB1#13	21.91	1.85	23.76	0.238	1.000	Pass
			RB1#24	21.72	1.85	23.57	0.228	1.000	Pass
			RB12#0	20.69	1.85	22.54	0.179	1.000	Pass
			RB12#6	20.8	1.85	22.65	0.184	1.000	Pass
			RB12#13	20.67	1.85	22.52	0.179	1.000	Pass
			RB25#0	20.65	1.85	22.50	0.178	1.000	Pass
		16-QAM	RB1#0	20.5	1.85	22.35	0.172	1.000	Pass
			RB1#13	21.14	1.85	22.99	0.199	1.000	Pass
			RB1#24	21.11	1.85	22.96	0.198	1.000	Pass
			RB12#0	19.41	1.85	21.26	0.134	1.000	Pass
			RB12#6	19.67	1.85	21.52	0.142	1.000	Pass
			RB12#13	19.56	1.85	21.41	0.138	1.000	Pass
			RB25#0	19.71	1.85	21.56	0.143	1.000	Pass
	HCH	QPSK	RB1#0	21.45	1.85	23.30	0.214	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
			RB1#13	21.53	1.85	23.38	0.218	1.000	Pass
			RB1#24	21.54	1.85	23.39	0.218	1.000	Pass
			RB12#0	20.59	1.85	22.44	0.175	1.000	Pass
			RB12#6	20.45	1.85	22.30	0.170	1.000	Pass
			RB12#13	20.41	1.85	22.26	0.168	1.000	Pass
			RB25#0	20.54	1.85	22.39	0.173	1.000	Pass
		16-QAM	RB1#0	20.24	1.85	22.09	0.162	1.000	Pass
			RB1#13	20.05	1.85	21.90	0.155	1.000	Pass
			RB1#24	19.9	1.85	21.75	0.150	1.000	Pass
			RB12#0	19.52	1.85	21.37	0.137	1.000	Pass
			RB12#6	19.36	1.85	21.21	0.132	1.000	Pass
			RB12#13	19.32	1.85	21.17	0.131	1.000	Pass
			RB25#0	19.6	1.85	21.45	0.140	1.000	Pass
10 MHz	LCH	QPSK	RB1#0	21.77	1.85	23.62	0.230	1.000	Pass
			RB1#25	21.44	1.85	23.29	0.213	1.000	Pass
			RB1#49	21.34	1.85	23.19	0.208	1.000	Pass
			RB25#0	20.63	1.85	22.48	0.177	1.000	Pass
			RB25#13	20.45	1.85	22.30	0.170	1.000	Pass
			RB25#25	20.43	1.85	22.28	0.169	1.000	Pass
			RB50#0	20.6	1.85	22.45	0.176	1.000	Pass
		16-QAM	RB1#0	20.95	1.85	22.80	0.191	1.000	Pass
			RB1#25	20.87	1.85	22.72	0.187	1.000	Pass
			RB1#49	20.05	1.85	21.90	0.155	1.000	Pass
			RB25#0	19.59	1.85	21.44	0.139	1.000	Pass
			RB25#13	19.42	1.85	21.27	0.134	1.000	Pass
			RB25#25	19.37	1.85	21.22	0.132	1.000	Pass
			RB50#0	19.7	1.85	21.55	0.143	1.000	Pass
	MCH	QPSK	RB1#0	21.56	1.85	23.41	0.219	1.000	Pass
			RB1#25	21.93	1.85	23.78	0.239	1.000	Pass
			RB1#49	21.76	1.85	23.61	0.230	1.000	Pass
			RB25#0	20.46	1.85	22.31	0.170	1.000	Pass
			RB25#13	20.76	1.85	22.61	0.182	1.000	Pass
			RB25#25	20.71	1.85	22.56	0.180	1.000	Pass
			RB50#0	20.63	1.85	22.48	0.177	1.000	Pass
		16-QAM	RB1#0	21.13	1.85	22.98	0.199	1.000	Pass
			RB1#25	21.71	1.85	23.56	0.227	1.000	Pass
			RB1#49	21.71	1.85	23.56	0.227	1.000	Pass
			RB25#0	19.54	1.85	21.39	0.138	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
15 MHz	HCH		RB25#13	19.94	1.85	21.79	0.151	1.000	Pass
			RB25#25	19.87	1.85	21.72	0.149	1.000	Pass
			RB50#0	19.8	1.85	21.65	0.146	1.000	Pass
		QPSK	RB1#0	21.64	1.85	23.49	0.223	1.000	Pass
			RB1#25	21.35	1.85	23.20	0.209	1.000	Pass
			RB1#49	21.33	1.85	23.18	0.208	1.000	Pass
			RB25#0	20.78	1.85	22.63	0.183	1.000	Pass
			RB25#13	20.57	1.85	22.42	0.175	1.000	Pass
			RB25#25	20.4	1.85	22.25	0.168	1.000	Pass
			RB50#0	20.57	1.85	22.42	0.175	1.000	Pass
		16-QAM	RB1#0	20.6	1.85	22.45	0.176	1.000	Pass
			RB1#25	20.26	1.85	22.11	0.163	1.000	Pass
			RB1#49	20.09	1.85	21.94	0.156	1.000	Pass
			RB25#0	19.78	1.85	21.63	0.146	1.000	Pass
			RB25#13	19.49	1.85	21.34	0.136	1.000	Pass
			RB25#25	19.43	1.85	21.28	0.134	1.000	Pass
			RB50#0	19.69	1.85	21.54	0.143	1.000	Pass
	LCH	QPSK	RB1#0	21.7	1.85	23.55	0.226	1.000	Pass
			RB1#38	21.39	1.85	23.24	0.211	1.000	Pass
			RB1#74	21.56	1.85	23.41	0.219	1.000	Pass
			RB36#0	20.61	1.85	22.46	0.176	1.000	Pass
			RB36#19	20.44	1.85	22.29	0.169	1.000	Pass
			RB36#39	20.45	1.85	22.30	0.170	1.000	Pass
			RB75#0	20.53	1.85	22.38	0.173	1.000	Pass
		16-QAM	RB1#0	21.76	1.85	23.61	0.230	1.000	Pass
			RB1#38	20.85	1.85	22.70	0.186	1.000	Pass
			RB1#74	20.75	1.85	22.60	0.182	1.000	Pass
			RB36#0	19.64	1.85	21.49	0.141	1.000	Pass
			RB36#19	19.33	1.85	21.18	0.131	1.000	Pass
			RB36#39	19.4	1.85	21.25	0.133	1.000	Pass
			RB75#0	19.56	1.85	21.41	0.138	1.000	Pass
	MCH	QPSK	RB1#0	21.44	1.85	23.29	0.213	1.000	Pass
			RB1#38	22.01	1.85	23.86	0.243	1.000	Pass
			RB1#74	21.79	1.85	23.64	0.231	1.000	Pass
			RB36#0	20.61	1.85	22.46	0.176	1.000	Pass
			RB36#19	20.82	1.85	22.67	0.185	1.000	Pass
			RB36#39	20.73	1.85	22.58	0.181	1.000	Pass
			RB75#0	20.64	1.85	22.49	0.177	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
20 MHz	HCH	16-QAM	RB1#0	20.95	1.85	22.80	0.191	1.000	Pass
			RB1#38	21.62	1.85	23.47	0.222	1.000	Pass
			RB1#74	21.72	1.85	23.57	0.228	1.000	Pass
			RB36#0	19.45	1.85	21.30	0.135	1.000	Pass
			RB36#19	19.9	1.85	21.75	0.150	1.000	Pass
			RB36#39	19.8	1.85	21.65	0.146	1.000	Pass
			RB75#0	19.84	1.85	21.69	0.148	1.000	Pass
		QPSK	RB1#0	21.75	1.85	23.60	0.229	1.000	Pass
			RB1#38	21.68	1.85	23.53	0.225	1.000	Pass
			RB1#74	21.3	1.85	23.15	0.207	1.000	Pass
			RB36#0	20.67	1.85	22.52	0.179	1.000	Pass
			RB36#19	20.59	1.85	22.44	0.175	1.000	Pass
			RB36#39	20.4	1.85	22.25	0.168	1.000	Pass
			RB75#0	20.66	1.85	22.51	0.178	1.000	Pass
		16-QAM	RB1#0	20.83	1.85	22.68	0.185	1.000	Pass
			RB1#38	20.18	1.85	22.03	0.160	1.000	Pass
			RB1#74	19.97	1.85	21.82	0.152	1.000	Pass
			RB36#0	19.81	1.85	21.66	0.147	1.000	Pass
			RB36#19	19.35	1.85	21.20	0.132	1.000	Pass
			RB36#39	19.23	1.85	21.08	0.128	1.000	Pass
			RB75#0	19.68	1.85	21.53	0.142	1.000	Pass
	LCH	QPSK	RB1#0	21.64	1.85	23.49	0.223	1.000	Pass
			RB1#50	21.22	1.85	23.07	0.203	1.000	Pass
			RB1#99	21.55	1.85	23.40	0.219	1.000	Pass
			RB50#0	20.57	1.85	22.42	0.175	1.000	Pass
			RB50#25	20.49	1.85	22.34	0.171	1.000	Pass
			RB50#50	20.55	1.85	22.40	0.174	1.000	Pass
			RB100#0	20.53	1.85	22.38	0.173	1.000	Pass
		16-QAM	RB1#0	20.64	1.85	22.49	0.177	1.000	Pass
			RB1#50	20.28	1.85	22.13	0.163	1.000	Pass
			RB1#99	21.18	1.85	23.03	0.201	1.000	Pass
			RB50#0	19.62	1.85	21.47	0.140	1.000	Pass
			RB50#25	19.48	1.85	21.33	0.136	1.000	Pass
			RB50#50	19.54	1.85	21.39	0.138	1.000	Pass
			RB100#0	19.53	1.85	21.38	0.137	1.000	Pass
	MCH	QPSK	RB1#0	21.86	1.85	23.71	0.235	1.000	Pass
			RB1#50	22.29	1.85	24.14	0.259	1.000	Pass
			RB1#99	21.94	1.85	23.79	0.239	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND4									
			RB50#0	20.64	1.85	22.49	0.177	1.000	Pass
			RB50#25	20.85	1.85	22.70	0.186	1.000	Pass
			RB50#50	20.66	1.85	22.51	0.178	1.000	Pass
			RB100#0	20.61	1.85	22.46	0.176	1.000	Pass
		16-QAM	RB1#0	20.69	1.85	22.54	0.179	1.000	Pass
			RB1#50	21	1.85	22.85	0.193	1.000	Pass
			RB1#99	20.63	1.85	22.48	0.177	1.000	Pass
			RB50#0	19.46	1.85	21.31	0.135	1.000	Pass
			RB50#25	19.98	1.85	21.83	0.152	1.000	Pass
			RB50#50	19.83	1.85	21.68	0.147	1.000	Pass
			RB100#0	19.69	1.85	21.54	0.143	1.000	Pass
	HCH	QPSK	RB1#0	21.73	1.85	23.58	0.228	1.000	Pass
			RB1#50	21.8	1.85	23.65	0.232	1.000	Pass
			RB1#99	21.17	1.85	23.02	0.200	1.000	Pass
			RB50#0	20.71	1.85	22.56	0.180	1.000	Pass
			RB50#25	20.54	1.85	22.39	0.173	1.000	Pass
			RB50#50	20.27	1.85	22.12	0.163	1.000	Pass
			RB100#0	20.63	1.85	22.48	0.177	1.000	Pass
		16-QAM	RB1#0	21.47	1.85	23.32	0.215	1.000	Pass
			RB1#50	21.63	1.85	23.48	0.223	1.000	Pass
			RB1#99	21.01	1.85	22.86	0.193	1.000	Pass
			RB50#0	19.8	1.85	21.65	0.146	1.000	Pass
			RB50#25	19.53	1.85	21.38	0.137	1.000	Pass
			RB50#50	19.29	1.85	21.14	0.130	1.000	Pass
			RB100#0	19.73	1.85	21.58	0.144	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
1.4 MHz	LCH	QPSK	RB1#0	22.56	1.05	-1.1	21.46	0.140	7.000	Pass
			RB1#3	22.62	1.05	-1.1	21.52	0.142	7.000	Pass
			RB1#5	22.48	1.05	-1.1	21.38	0.137	7.000	Pass
			RB3#0	22.61	1.05	-1.1	21.51	0.142	7.000	Pass
			RB3#2	22.6	1.05	-1.1	21.50	0.141	7.000	Pass
			RB3#3	22.59	1.05	-1.1	21.49	0.141	7.000	Pass
			RB6#0	21.65	1.05	-1.1	20.55	0.114	7.000	Pass
		16-QAM	RB1#0	21.26	1.05	-1.1	20.16	0.104	7.000	Pass
			RB1#3	21.85	1.05	-1.1	20.75	0.119	7.000	Pass
			RB1#5	21.65	1.05	-1.1	20.55	0.114	7.000	Pass
			RB3#0	21.71	1.05	-1.1	20.61	0.115	7.000	Pass
			RB3#2	21.73	1.05	-1.1	20.63	0.116	7.000	Pass
			RB3#3	21.57	1.05	-1.1	20.47	0.111	7.000	Pass
			RB6#0	20.45	1.05	-1.1	19.35	0.086	7.000	Pass
	MCH	QPSK	RB1#0	22.75	1.05	-1.1	21.65	0.146	7.000	Pass
			RB1#3	22.83	1.05	-1.1	21.73	0.149	7.000	Pass
			RB1#5	22.78	1.05	-1.1	21.68	0.147	7.000	Pass
			RB3#0	22.68	1.05	-1.1	21.58	0.144	7.000	Pass
			RB3#2	22.69	1.05	-1.1	21.59	0.144	7.000	Pass
			RB3#3	22.73	1.05	-1.1	21.63	0.146	7.000	Pass
			RB6#0	21.69	1.05	-1.1	20.59	0.115	7.000	Pass
		16-QAM	RB1#0	22.03	1.05	-1.1	20.93	0.124	7.000	Pass
			RB1#3	22.39	1.05	-1.1	21.29	0.135	7.000	Pass
			RB1#5	22.32	1.05	-1.1	21.22	0.132	7.000	Pass
			RB3#0	21.95	1.05	-1.1	20.85	0.122	7.000	Pass
			RB3#2	22.01	1.05	-1.1	20.91	0.123	7.000	Pass
			RB3#3	22.08	1.05	-1.1	20.98	0.125	7.000	Pass
			RB6#0	20.9	1.05	-1.1	19.80	0.095	7.000	Pass
	HCH	QPSK	RB1#0	22.59	1.05	-1.1	21.49	0.141	7.000	Pass
			RB1#3	22.87	1.05	-1.1	21.77	0.150	7.000	Pass
			RB1#5	22.85	1.05	-1.1	21.75	0.150	7.000	Pass
			RB3#0	22.76	1.05	-1.1	21.66	0.147	7.000	Pass
			RB3#2	22.85	1.05	-1.1	21.75	0.150	7.000	Pass
			RB3#3	22.9	1.05	-1.1	21.80	0.151	7.000	Pass
			RB6#0	21.78	1.05	-1.1	20.68	0.117	7.000	Pass
		16-QAM	RB1#0	21.62	1.05	-1.1	20.52	0.113	7.000	Pass
			RB1#3	21.48	1.05	-1.1	20.38	0.109	7.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
3 MHz			RB1#5	21.48	1.05	-1.1	20.38	0.109	7.000	Pass
			RB3#0	21.71	1.05	-1.1	20.61	0.115	7.000	Pass
			RB3#2	21.77	1.05	-1.1	20.67	0.117	7.000	Pass
			RB3#3	21.8	1.05	-1.1	20.70	0.117	7.000	Pass
			RB6#0	20.63	1.05	-1.1	19.53	0.090	7.000	Pass
	LCH	QPSK	RB1#0	22.59	1.05	-1.1	21.49	0.141	7.000	Pass
			RB1#7	22.58	1.05	-1.1	21.48	0.141	7.000	Pass
			RB1#14	22.52	1.05	-1.1	21.42	0.139	7.000	Pass
			RB8#0	21.7	1.05	-1.1	20.60	0.115	7.000	Pass
			RB8#4	21.63	1.05	-1.1	20.53	0.113	7.000	Pass
			RB8#7	21.54	1.05	-1.1	20.44	0.111	7.000	Pass
			RB15#0	21.69	1.05	-1.1	20.59	0.115	7.000	Pass
		16-QAM	RB1#0	21.97	1.05	-1.1	20.87	0.122	7.000	Pass
			RB1#7	21.86	1.05	-1.1	20.76	0.119	7.000	Pass
			RB1#14	21.67	1.05	-1.1	20.57	0.114	7.000	Pass
			RB8#0	20.93	1.05	-1.1	19.83	0.096	7.000	Pass
			RB8#4	20.77	1.05	-1.1	19.67	0.093	7.000	Pass
			RB8#7	20.79	1.05	-1.1	19.69	0.093	7.000	Pass
			RB15#0	20.64	1.05	-1.1	19.54	0.090	7.000	Pass
	MCH	QPSK	RB1#0	22.78	1.05	-1.1	21.68	0.147	7.000	Pass
			RB1#7	22.87	1.05	-1.1	21.77	0.150	7.000	Pass
			RB1#14	23.07	1.05	-1.1	21.97	0.157	7.000	Pass
			RB8#0	21.84	1.05	-1.1	20.74	0.119	7.000	Pass
			RB8#4	21.84	1.05	-1.1	20.74	0.119	7.000	Pass
			RB8#7	21.81	1.05	-1.1	20.71	0.118	7.000	Pass
			RB15#0	21.79	1.05	-1.1	20.69	0.117	7.000	Pass
		16-QAM	RB1#0	21.32	1.05	-1.1	20.22	0.105	7.000	Pass
			RB1#7	22.46	1.05	-1.1	21.36	0.137	7.000	Pass
			RB1#14	22.48	1.05	-1.1	21.38	0.137	7.000	Pass
			RB8#0	20.94	1.05	-1.1	19.84	0.096	7.000	Pass
			RB8#4	21.01	1.05	-1.1	19.91	0.098	7.000	Pass
			RB8#7	20.95	1.05	-1.1	19.85	0.097	7.000	Pass
			RB15#0	20.69	1.05	-1.1	19.59	0.091	7.000	Pass
	HCH	QPSK	RB1#0	22.68	1.05	-1.1	21.58	0.144	7.000	Pass
			RB1#7	22.73	1.05	-1.1	21.63	0.146	7.000	Pass
			RB1#14	22.76	1.05	-1.1	21.66	0.147	7.000	Pass
			RB8#0	21.77	1.05	-1.1	20.67	0.117	7.000	Pass
			RB8#4	21.79	1.05	-1.1	20.69	0.117	7.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
		16-QAM	RB8#7	21.73	1.05	-1.1	20.63	0.116	7.000	Pass
			RB15#0	21.7	1.05	-1.1	20.60	0.115	7.000	Pass
			RB1#0	21.66	1.05	-1.1	20.56	0.114	7.000	Pass
			RB1#7	21.77	1.05	-1.1	20.67	0.117	7.000	Pass
			RB1#14	21.86	1.05	-1.1	20.76	0.119	7.000	Pass
			RB8#0	20.54	1.05	-1.1	19.44	0.088	7.000	Pass
			RB8#4	20.76	1.05	-1.1	19.66	0.092	7.000	Pass
			RB8#7	20.81	1.05	-1.1	19.71	0.094	7.000	Pass
			RB15#0	20.69	1.05	-1.1	19.59	0.091	7.000	Pass
5 MHz	LCH	QPSK	RB1#0	22.69	1.05	-1.1	21.59	0.144	7.000	Pass
			RB1#13	22.69	1.05	-1.1	21.59	0.144	7.000	Pass
			RB1#24	22.71	1.05	-1.1	21.61	0.145	7.000	Pass
			RB12#0	21.66	1.05	-1.1	20.56	0.114	7.000	Pass
			RB12#6	21.68	1.05	-1.1	20.58	0.114	7.000	Pass
			RB12#13	21.72	1.05	-1.1	20.62	0.115	7.000	Pass
			RB25#0	21.8	1.05	-1.1	20.70	0.117	7.000	Pass
		16-QAM	RB1#0	21.03	1.05	-1.1	19.93	0.098	7.000	Pass
			RB1#13	21.44	1.05	-1.1	20.34	0.108	7.000	Pass
			RB1#24	21.34	1.05	-1.1	20.24	0.106	7.000	Pass
			RB12#0	20.61	1.05	-1.1	19.51	0.089	7.000	Pass
			RB12#6	20.68	1.05	-1.1	19.58	0.091	7.000	Pass
			RB12#13	20.57	1.05	-1.1	19.47	0.089	7.000	Pass
			RB25#0	20.73	1.05	-1.1	19.63	0.092	7.000	Pass
	MCH	QPSK	RB1#0	22.54	1.05	-1.1	21.44	0.139	7.000	Pass
			RB1#13	22.71	1.05	-1.1	21.61	0.145	7.000	Pass
			RB1#24	22.89	1.05	-1.1	21.79	0.151	7.000	Pass
			RB12#0	21.74	1.05	-1.1	20.64	0.116	7.000	Pass
			RB12#6	21.81	1.05	-1.1	20.71	0.118	7.000	Pass
			RB12#13	21.9	1.05	-1.1	20.80	0.120	7.000	Pass
			RB25#0	21.82	1.05	-1.1	20.72	0.118	7.000	Pass
		16-QAM	RB1#0	21.93	1.05	-1.1	20.83	0.121	7.000	Pass
			RB1#13	22.35	1.05	-1.1	21.25	0.133	7.000	Pass
			RB1#24	22.31	1.05	-1.1	21.21	0.132	7.000	Pass
			RB12#0	20.57	1.05	-1.1	19.47	0.089	7.000	Pass
			RB12#6	20.68	1.05	-1.1	19.58	0.091	7.000	Pass
			RB12#13	20.76	1.05	-1.1	19.66	0.092	7.000	Pass
			RB25#0	20.65	1.05	-1.1	19.55	0.090	7.000	Pass
	HCH	QPSK	RB1#0	22.62	1.05	-1.1	21.52	0.142	7.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
			RB1#13	22.84	1.05	-1.1	21.74	0.149	7.000	Pass
			RB1#24	22.9	1.05	-1.1	21.80	0.151	7.000	Pass
			RB12#0	21.77	1.05	-1.1	20.67	0.117	7.000	Pass
			RB12#6	21.82	1.05	-1.1	20.72	0.118	7.000	Pass
			RB12#13	21.76	1.05	-1.1	20.66	0.116	7.000	Pass
			RB25#0	21.7	1.05	-1.1	20.60	0.115	7.000	Pass
		16-QAM	RB1#0	21.56	1.05	-1.1	20.46	0.111	7.000	Pass
			RB1#13	21.89	1.05	-1.1	20.79	0.120	7.000	Pass
			RB1#24	21.64	1.05	-1.1	20.54	0.113	7.000	Pass
			RB12#0	20.45	1.05	-1.1	19.35	0.086	7.000	Pass
			RB12#6	20.53	1.05	-1.1	19.43	0.088	7.000	Pass
			RB12#13	20.66	1.05	-1.1	19.56	0.090	7.000	Pass
			RB25#0	20.76	1.05	-1.1	19.66	0.092	7.000	Pass
10 MHz	LCH	QPSK	RB1#0	22.69	1.05	-1.1	21.59	0.144	7.000	Pass
			RB1#25	22.79	1.05	-1.1	21.69	0.148	7.000	Pass
			RB1#49	22.95	1.05	-1.1	21.85	0.153	7.000	Pass
			RB25#0	21.87	1.05	-1.1	20.77	0.119	7.000	Pass
			RB25#13	21.8	1.05	-1.1	20.70	0.117	7.000	Pass
			RB25#25	21.87	1.05	-1.1	20.77	0.119	7.000	Pass
			RB50#0	21.84	1.05	-1.1	20.74	0.119	7.000	Pass
		16-QAM	RB1#0	21.98	1.05	-1.1	20.88	0.122	7.000	Pass
			RB1#25	21.9	1.05	-1.1	20.80	0.120	7.000	Pass
			RB1#49	22.14	1.05	-1.1	21.04	0.127	7.000	Pass
			RB25#0	20.83	1.05	-1.1	19.73	0.094	7.000	Pass
			RB25#13	20.81	1.05	-1.1	19.71	0.094	7.000	Pass
			RB25#25	20.87	1.05	-1.1	19.77	0.095	7.000	Pass
			RB50#0	20.91	1.05	-1.1	19.81	0.096	7.000	Pass
	MCH	QPSK	RB1#0	22.91	1.05	-1.1	21.81	0.152	7.000	Pass
			RB1#25	23.01	1.05	-1.1	21.91	0.155	7.000	Pass
			RB1#49	22.67	1.05	-1.1	21.57	0.144	7.000	Pass
			RB25#0	21.79	1.05	-1.1	20.69	0.117	7.000	Pass
			RB25#13	21.96	1.05	-1.1	20.86	0.122	7.000	Pass
			RB25#25	21.88	1.05	-1.1	20.78	0.120	7.000	Pass
			RB50#0	21.81	1.05	-1.1	20.71	0.118	7.000	Pass
		16-QAM	RB1#0	21.46	1.05	-1.1	20.36	0.109	7.000	Pass
			RB1#25	22.32	1.05	-1.1	21.22	0.132	7.000	Pass
			RB1#49	22.25	1.05	-1.1	21.15	0.130	7.000	Pass
			RB25#0	20.79	1.05	-1.1	19.69	0.093	7.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND5										
			RB25#13	20.98	1.05	-1.1	19.88	0.097	7.000	Pass
			RB25#25	21.02	1.05	-1.1	19.92	0.098	7.000	Pass
			RB50#0	20.75	1.05	-1.1	19.65	0.092	7.000	Pass
	HCH	QPSK	RB1#0	22.73	1.05	-1.1	21.63	0.146	7.000	Pass
			RB1#25	22.54	1.05	-1.1	21.44	0.139	7.000	Pass
			RB1#49	23	1.05	-1.1	21.90	0.155	7.000	Pass
			RB25#0	21.92	1.05	-1.1	20.82	0.121	7.000	Pass
			RB25#13	21.8	1.05	-1.1	20.70	0.117	7.000	Pass
			RB25#25	21.85	1.05	-1.1	20.75	0.119	7.000	Pass
			RB50#0	21.85	1.05	-1.1	20.75	0.119	7.000	Pass
		16-QAM	RB1#0	21.76	1.05	-1.1	20.66	0.116	7.000	Pass
			RB1#25	21.55	1.05	-1.1	20.45	0.111	7.000	Pass
			RB1#49	21.62	1.05	-1.1	20.52	0.113	7.000	Pass
			RB25#0	20.9	1.05	-1.1	19.80	0.095	7.000	Pass
			RB25#13	20.85	1.05	-1.1	19.75	0.094	7.000	Pass
			RB25#25	20.8	1.05	-1.1	19.70	0.093	7.000	Pass
			RB50#0	20.91	1.05	-1.1	19.81	0.096	7.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
1.4 MHz	LCH	QPSK	RB1#0	22.86	1.06	-1.09	21.77	0.150	3.000	Pass
			RB1#3	22.87	1.06	-1.09	21.78	0.151	3.000	Pass
			RB1#5	22.87	1.06	-1.09	21.78	0.151	3.000	Pass
			RB3#0	22.93	1.06	-1.09	21.84	0.153	3.000	Pass
			RB3#2	22.87	1.06	-1.09	21.78	0.151	3.000	Pass
			RB3#3	22.92	1.06	-1.09	21.83	0.152	3.000	Pass
			RB6#0	22.09	1.06	-1.09	21.00	0.126	3.000	Pass
		16-QAM	RB1#0	21.68	1.06	-1.09	20.59	0.115	3.000	Pass
			RB1#3	21.85	1.06	-1.09	20.76	0.119	3.000	Pass
			RB1#5	21.84	1.06	-1.09	20.75	0.119	3.000	Pass
			RB3#0	22	1.06	-1.09	20.91	0.123	3.000	Pass
			RB3#2	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB3#3	22.03	1.06	-1.09	20.94	0.124	3.000	Pass
			RB6#0	21.1	1.06	-1.09	20.01	0.100	3.000	Pass
	MCH	QPSK	RB1#0	22.84	1.06	-1.09	21.75	0.150	3.000	Pass
			RB1#3	22.8	1.06	-1.09	21.71	0.148	3.000	Pass
			RB1#5	22.76	1.06	-1.09	21.67	0.147	3.000	Pass
			RB3#0	22.87	1.06	-1.09	21.78	0.151	3.000	Pass
			RB3#2	22.91	1.06	-1.09	21.82	0.152	3.000	Pass
			RB3#3	22.65	1.06	-1.09	21.56	0.143	3.000	Pass
			RB6#0	21.91	1.06	-1.09	20.82	0.121	3.000	Pass
		16-QAM	RB1#0	21.7	1.06	-1.09	20.61	0.115	3.000	Pass
			RB1#3	22.52	1.06	-1.09	21.43	0.139	3.000	Pass
			RB1#5	22.59	1.06	-1.09	21.50	0.141	3.000	Pass
			RB3#0	22.1	1.06	-1.09	21.01	0.126	3.000	Pass
			RB3#2	22.09	1.06	-1.09	21.00	0.126	3.000	Pass
			RB3#3	22.15	1.06	-1.09	21.06	0.128	3.000	Pass
			RB6#0	21.19	1.06	-1.09	20.10	0.102	3.000	Pass
	HCH	QPSK	RB1#0	22.74	1.06	-1.09	21.65	0.146	3.000	Pass
			RB1#3	22.92	1.06	-1.09	21.83	0.152	3.000	Pass
			RB1#5	22.91	1.06	-1.09	21.82	0.152	3.000	Pass
			RB3#0	22.72	1.06	-1.09	21.63	0.146	3.000	Pass
			RB3#2	22.85	1.06	-1.09	21.76	0.150	3.000	Pass
			RB3#3	22.83	1.06	-1.09	21.74	0.149	3.000	Pass
			RB6#0	21.95	1.06	-1.09	20.86	0.122	3.000	Pass
		16-QAM	RB1#0	21.62	1.06	-1.09	20.53	0.113	3.000	Pass
			RB1#3	21.61	1.06	-1.09	20.52	0.113	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
3 MHz			RB1#5	21.77	1.06	-1.09	20.68	0.117	3.000	Pass
			RB3#0	21.89	1.06	-1.09	20.80	0.120	3.000	Pass
			RB3#2	22.03	1.06	-1.09	20.94	0.124	3.000	Pass
			RB3#3	21.91	1.06	-1.09	20.82	0.121	3.000	Pass
			RB6#0	20.69	1.06	-1.09	19.60	0.091	3.000	Pass
	LCH	QPSK	RB1#0	22.9	1.06	-1.09	21.81	0.152	3.000	Pass
			RB1#7	22.91	1.06	-1.09	21.82	0.152	3.000	Pass
			RB1#14	22.78	1.06	-1.09	21.69	0.148	3.000	Pass
			RB8#0	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB8#4	22.09	1.06	-1.09	21.00	0.126	3.000	Pass
			RB8#7	21.97	1.06	-1.09	20.88	0.122	3.000	Pass
			RB15#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
		16-QAM	RB1#0	22.39	1.06	-1.09	21.30	0.135	3.000	Pass
			RB1#7	22.36	1.06	-1.09	21.27	0.134	3.000	Pass
			RB1#14	22.19	1.06	-1.09	21.10	0.129	3.000	Pass
			RB8#0	21.29	1.06	-1.09	20.20	0.105	3.000	Pass
			RB8#4	21.19	1.06	-1.09	20.10	0.102	3.000	Pass
			RB8#7	21.12	1.06	-1.09	20.03	0.101	3.000	Pass
			RB15#0	21.05	1.06	-1.09	19.96	0.099	3.000	Pass
	MCH	QPSK	RB1#0	22.8	1.06	-1.09	21.71	0.148	3.000	Pass
			RB1#7	22.9	1.06	-1.09	21.81	0.152	3.000	Pass
			RB1#14	22.93	1.06	-1.09	21.84	0.153	3.000	Pass
			RB8#0	22.03	1.06	-1.09	20.94	0.124	3.000	Pass
			RB8#4	22.06	1.06	-1.09	20.97	0.125	3.000	Pass
			RB8#7	22.03	1.06	-1.09	20.94	0.124	3.000	Pass
			RB15#0	21.88	1.06	-1.09	20.79	0.120	3.000	Pass
		16-QAM	RB1#0	22.34	1.06	-1.09	21.25	0.133	3.000	Pass
			RB1#7	22.84	1.06	-1.09	21.75	0.150	3.000	Pass
			RB1#14	22.58	1.06	-1.09	21.49	0.141	3.000	Pass
			RB8#0	20.89	1.06	-1.09	19.80	0.095	3.000	Pass
			RB8#4	20.91	1.06	-1.09	19.82	0.096	3.000	Pass
			RB8#7	21.01	1.06	-1.09	19.92	0.098	3.000	Pass
			RB15#0	20.86	1.06	-1.09	19.77	0.095	3.000	Pass
	HCH	QPSK	RB1#0	22.89	1.06	-1.09	21.80	0.151	3.000	Pass
			RB1#7	22.77	1.06	-1.09	21.68	0.147	3.000	Pass
			RB1#14	22.86	1.06	-1.09	21.77	0.150	3.000	Pass
			RB8#0	22.06	1.06	-1.09	20.97	0.125	3.000	Pass
			RB8#4	22.08	1.06	-1.09	20.99	0.126	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
		16-QAM	RB8#7	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB15#0	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB1#0	21.96	1.06	-1.09	20.87	0.122	3.000	Pass
			RB1#7	21.82	1.06	-1.09	20.73	0.118	3.000	Pass
			RB1#14	22.23	1.06	-1.09	21.14	0.130	3.000	Pass
			RB8#0	20.92	1.06	-1.09	19.83	0.096	3.000	Pass
			RB8#4	20.93	1.06	-1.09	19.84	0.096	3.000	Pass
			RB8#7	20.97	1.06	-1.09	19.88	0.097	3.000	Pass
			RB15#0	20.99	1.06	-1.09	19.90	0.098	3.000	Pass
5 MHz	LCH	QPSK	RB1#0	22.9	1.06	-1.09	21.81	0.152	3.000	Pass
			RB1#13	22.68	1.06	-1.09	21.59	0.144	3.000	Pass
			RB1#24	22.76	1.06	-1.09	21.67	0.147	3.000	Pass
			RB12#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
			RB12#6	21.88	1.06	-1.09	20.79	0.120	3.000	Pass
			RB12#13	21.83	1.06	-1.09	20.74	0.119	3.000	Pass
			RB25#0	21.98	1.06	-1.09	20.89	0.123	3.000	Pass
		16-QAM	RB1#0	21.54	1.06	-1.09	20.45	0.111	3.000	Pass
			RB1#13	21.33	1.06	-1.09	20.24	0.106	3.000	Pass
			RB1#24	21.21	1.06	-1.09	20.12	0.103	3.000	Pass
			RB12#0	20.95	1.06	-1.09	19.86	0.097	3.000	Pass
			RB12#6	20.8	1.06	-1.09	19.71	0.094	3.000	Pass
			RB12#13	20.71	1.06	-1.09	19.62	0.092	3.000	Pass
			RB25#0	21.14	1.06	-1.09	20.05	0.101	3.000	Pass
	MCH	QPSK	RB1#0	22.72	1.06	-1.09	21.63	0.146	3.000	Pass
			RB1#13	22.88	1.06	-1.09	21.79	0.151	3.000	Pass
			RB1#24	22.83	1.06	-1.09	21.74	0.149	3.000	Pass
			RB12#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
			RB12#6	22.05	1.06	-1.09	20.96	0.125	3.000	Pass
			RB12#13	22.01	1.06	-1.09	20.92	0.124	3.000	Pass
			RB25#0	21.93	1.06	-1.09	20.84	0.121	3.000	Pass
		16-QAM	RB1#0	21.88	1.06	-1.09	20.79	0.120	3.000	Pass
			RB1#13	22.44	1.06	-1.09	21.35	0.136	3.000	Pass
			RB1#24	22.47	1.06	-1.09	21.38	0.137	3.000	Pass
			RB12#0	20.64	1.06	-1.09	19.55	0.090	3.000	Pass
			RB12#6	20.82	1.06	-1.09	19.73	0.094	3.000	Pass
			RB12#13	20.89	1.06	-1.09	19.80	0.095	3.000	Pass
			RB25#0	20.94	1.06	-1.09	19.85	0.097	3.000	Pass
	HCH	QPSK	RB1#0	22.81	1.06	-1.09	21.72	0.149	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
			RB1#13	22.87	1.06	-1.09	21.78	0.151	3.000	Pass
			RB1#24	22.84	1.06	-1.09	21.75	0.150	3.000	Pass
			RB12#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
			RB12#6	21.92	1.06	-1.09	20.83	0.121	3.000	Pass
			RB12#13	21.93	1.06	-1.09	20.84	0.121	3.000	Pass
			RB25#0	21.92	1.06	-1.09	20.83	0.121	3.000	Pass
		16-QAM	RB1#0	21.97	1.06	-1.09	20.88	0.122	3.000	Pass
			RB1#13	21.92	1.06	-1.09	20.83	0.121	3.000	Pass
			RB1#24	21.93	1.06	-1.09	20.84	0.121	3.000	Pass
			RB12#0	21.06	1.06	-1.09	19.97	0.099	3.000	Pass
			RB12#6	21.04	1.06	-1.09	19.95	0.099	3.000	Pass
			RB12#13	20.97	1.06	-1.09	19.88	0.097	3.000	Pass
			RB25#0	21.06	1.06	-1.09	19.97	0.099	3.000	Pass
10 MHz	LCH	QPSK	RB1#0	22.83	1.06	-1.09	21.74	0.149	3.000	Pass
			RB1#25	22.73	1.06	-1.09	21.64	0.146	3.000	Pass
			RB1#49	22.81	1.06	-1.09	21.72	0.149	3.000	Pass
			RB25#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
			RB25#13	21.96	1.06	-1.09	20.87	0.122	3.000	Pass
			RB25#25	22	1.06	-1.09	20.91	0.123	3.000	Pass
			RB50#0	22.11	1.06	-1.09	21.02	0.126	3.000	Pass
		16-QAM	RB1#0	22.36	1.06	-1.09	21.27	0.134	3.000	Pass
			RB1#25	21.94	1.06	-1.09	20.85	0.122	3.000	Pass
			RB1#49	22.24	1.06	-1.09	21.15	0.130	3.000	Pass
			RB25#0	21.03	1.06	-1.09	19.94	0.099	3.000	Pass
			RB25#13	20.92	1.06	-1.09	19.83	0.096	3.000	Pass
			RB25#25	20.88	1.06	-1.09	19.79	0.095	3.000	Pass
			RB50#0	20.99	1.06	-1.09	19.90	0.098	3.000	Pass
	MCH	QPSK	RB1#0	22.68	1.06	-1.09	21.59	0.144	3.000	Pass
			RB1#25	22.92	1.06	-1.09	21.83	0.152	3.000	Pass
			RB1#49	22.93	1.06	-1.09	21.84	0.153	3.000	Pass
			RB25#0	21.88	1.06	-1.09	20.79	0.120	3.000	Pass
			RB25#13	22.03	1.06	-1.09	20.94	0.124	3.000	Pass
			RB25#25	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB50#0	21.96	1.06	-1.09	20.87	0.122	3.000	Pass
		16-QAM	RB1#0	21.5	1.06	-1.09	20.41	0.110	3.000	Pass
			RB1#25	21.77	1.06	-1.09	20.68	0.117	3.000	Pass
			RB1#49	22.15	1.06	-1.09	21.06	0.128	3.000	Pass
			RB25#0	20.86	1.06	-1.09	19.77	0.095	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND12										
			RB25#13	21	1.06	-1.09	19.91	0.098	3.000	Pass
			RB25#25	21.02	1.06	-1.09	19.93	0.098	3.000	Pass
			RB50#0	20.89	1.06	-1.09	19.80	0.095	3.000	Pass
	HCH	QPSK	RB1#0	22.92	1.06	-1.09	21.83	0.152	3.000	Pass
			RB1#25	22.91	1.06	-1.09	21.82	0.152	3.000	Pass
			RB1#49	22.59	1.06	-1.09	21.50	0.141	3.000	Pass
			RB25#0	22.02	1.06	-1.09	20.93	0.124	3.000	Pass
			RB25#13	22.17	1.06	-1.09	21.08	0.128	3.000	Pass
			RB25#25	21.93	1.06	-1.09	20.84	0.121	3.000	Pass
			RB50#0	21.99	1.06	-1.09	20.90	0.123	3.000	Pass
		16-QAM	RB1#0	21.8	1.06	-1.09	20.71	0.118	3.000	Pass
			RB1#25	22.18	1.06	-1.09	21.09	0.129	3.000	Pass
			RB1#49	21.68	1.06	-1.09	20.59	0.115	3.000	Pass
			RB25#0	21.1	1.06	-1.09	20.01	0.100	3.000	Pass
			RB25#13	21.27	1.06	-1.09	20.18	0.104	3.000	Pass
			RB25#25	21.03	1.06	-1.09	19.94	0.099	3.000	Pass
			RB50#0	20.92	1.06	-1.09	19.83	0.096	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND13										
5 MHz	LCH	QPSK	RB1#0	22.99	1.04	-1.11	21.88	0.154	3.000	Pass
			RB1#13	22.48	1.04	-1.11	21.37	0.137	3.000	Pass
			RB1#24	22.38	1.04	-1.11	21.27	0.134	3.000	Pass
			RB12#0	22.28	1.04	-1.11	21.17	0.131	3.000	Pass
			RB12#6	22.47	1.04	-1.11	21.36	0.137	3.000	Pass
			RB12#13	22.39	1.04	-1.11	21.28	0.134	3.000	Pass
			RB25#0	22.34	1.04	-1.11	21.23	0.133	3.000	Pass
		16-QAM	RB1#0	21.72	1.04	-1.11	20.61	0.115	3.000	Pass
			RB1#13	22.32	1.04	-1.11	21.21	0.132	3.000	Pass
			RB1#24	22.01	1.04	-1.11	20.90	0.123	3.000	Pass
			RB12#0	21.28	1.04	-1.11	20.17	0.104	3.000	Pass
			RB12#6	21.4	1.04	-1.11	20.29	0.107	3.000	Pass
			RB12#13	21.43	1.04	-1.11	20.32	0.108	3.000	Pass
			RB25#0	21.34	1.04	-1.11	20.23	0.105	3.000	Pass
	MCH	QPSK	RB1#0	22.93	1.04	-1.11	21.82	0.152	3.000	Pass
			RB1#13	22.56	1.04	-1.11	21.45	0.140	3.000	Pass
			RB1#24	22.87	1.04	-1.11	21.76	0.150	3.000	Pass
			RB12#0	22.28	1.04	-1.11	21.17	0.131	3.000	Pass
			RB12#6	22.34	1.04	-1.11	21.23	0.133	3.000	Pass
			RB12#13	22.4	1.04	-1.11	21.29	0.135	3.000	Pass
			RB25#0	22.34	1.04	-1.11	21.23	0.133	3.000	Pass
		16-QAM	RB1#0	22.31	1.04	-1.11	21.20	0.132	3.000	Pass
			RB1#13	22.95	1.04	-1.11	21.84	0.153	3.000	Pass
			RB1#24	22.78	1.04	-1.11	21.67	0.147	3.000	Pass
			RB12#0	21.24	1.04	-1.11	20.13	0.103	3.000	Pass
			RB12#6	21.43	1.04	-1.11	20.32	0.108	3.000	Pass
			RB12#13	21.39	1.04	-1.11	20.28	0.107	3.000	Pass
			RB25#0	21.29	1.04	-1.11	20.18	0.104	3.000	Pass
	HCH	QPSK	RB1#0	22.9	1.04	-1.11	21.79	0.151	3.000	Pass
			RB1#13	22.95	1.04	-1.11	21.84	0.153	3.000	Pass
			RB1#24	22.93	1.04	-1.11	21.82	0.152	3.000	Pass
			RB12#0	22.46	1.04	-1.11	21.35	0.136	3.000	Pass
			RB12#6	22.39	1.04	-1.11	21.28	0.134	3.000	Pass
			RB12#13	22.38	1.04	-1.11	21.27	0.134	3.000	Pass
			RB25#0	22.48	1.04	-1.11	21.37	0.137	3.000	Pass
		16-QAM	RB1#0	22.08	1.04	-1.11	20.97	0.125	3.000	Pass
			RB1#13	22.06	1.04	-1.11	20.95	0.124	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND13										
10 MHz	LCH		RB1#24	21.9	1.04	-1.11	20.79	0.120	3.000	Pass
			RB12#0	21.43	1.04	-1.11	20.32	0.108	3.000	Pass
			RB12#6	21.34	1.04	-1.11	20.23	0.105	3.000	Pass
			RB12#13	21.16	1.04	-1.11	20.05	0.101	3.000	Pass
			RB25#0	21.38	1.04	-1.11	20.27	0.106	3.000	Pass
		QPSK	RB1#0	22.92	1.04	-1.11	21.81	0.152	3.000	Pass
			RB1#25	22.94	1.04	-1.11	21.83	0.152	3.000	Pass
			RB1#49	22.91	1.04	-1.11	21.80	0.151	3.000	Pass
			RB25#0	22.35	1.04	-1.11	21.24	0.133	3.000	Pass
			RB25#13	22.41	1.04	-1.11	21.30	0.135	3.000	Pass
			RB25#25	22.36	1.04	-1.11	21.25	0.133	3.000	Pass
			RB50#0	22.37	1.04	-1.11	21.26	0.134	3.000	Pass
		16-QAM	RB1#0	22.63	1.04	-1.11	21.52	0.142	3.000	Pass
			RB1#25	22.93	1.04	-1.11	21.82	0.152	3.000	Pass
			RB1#49	22.3	1.04	-1.11	21.19	0.132	3.000	Pass
			RB25#0	21.41	1.04	-1.11	20.30	0.107	3.000	Pass
			RB25#13	21.43	1.04	-1.11	20.32	0.108	3.000	Pass
			RB25#25	21.37	1.04	-1.11	20.26	0.106	3.000	Pass
			RB50#0	21.32	1.04	-1.11	20.21	0.105	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND14										
5 MHz	LCH	QPSK	RB1#0	22.75	1.99	-0.16	22.59	0.182	3.000	Pass
			RB1#13	23.15	1.99	-0.16	22.99	0.199	3.000	Pass
			RB1#24	22.94	1.99	-0.16	22.78	0.190	3.000	Pass
			RB12#0	22.17	1.99	-0.16	22.01	0.159	3.000	Pass
			RB12#6	22.18	1.99	-0.16	22.02	0.159	3.000	Pass
			RB12#13	22.03	1.99	-0.16	21.87	0.154	3.000	Pass
			RB25#0	22.11	1.99	-0.16	21.95	0.157	3.000	Pass
		16-QAM	RB1#0	21.5	1.99	-0.16	21.34	0.136	3.000	Pass
			RB1#13	22.01	1.99	-0.16	21.85	0.153	3.000	Pass
			RB1#24	21.64	1.99	-0.16	21.48	0.141	3.000	Pass
			RB12#0	21.04	1.99	-0.16	20.88	0.122	3.000	Pass
			RB12#6	21.04	1.99	-0.16	20.88	0.122	3.000	Pass
			RB12#13	20.99	1.99	-0.16	20.83	0.121	3.000	Pass
			RB25#0	21.32	1.99	-0.16	21.16	0.131	3.000	Pass
	MCH	QPSK	RB1#0	22.92	1.99	-0.16	22.76	0.189	3.000	Pass
			RB1#13	23.07	1.99	-0.16	22.91	0.195	3.000	Pass
			RB1#24	23.06	1.99	-0.16	22.90	0.195	3.000	Pass
			RB12#0	22.15	1.99	-0.16	21.99	0.158	3.000	Pass
			RB12#6	22.16	1.99	-0.16	22.00	0.158	3.000	Pass
			RB12#13	21.97	1.99	-0.16	21.81	0.152	3.000	Pass
			RB25#0	22.06	1.99	-0.16	21.90	0.155	3.000	Pass
		16-QAM	RB1#0	22.19	1.99	-0.16	22.03	0.160	3.000	Pass
			RB1#13	22.32	1.99	-0.16	22.16	0.164	3.000	Pass
			RB1#24	22.32	1.99	-0.16	22.16	0.164	3.000	Pass
			RB12#0	21.15	1.99	-0.16	20.99	0.126	3.000	Pass
			RB12#6	21.17	1.99	-0.16	21.01	0.126	3.000	Pass
			RB12#13	21.07	1.99	-0.16	20.91	0.123	3.000	Pass
			RB25#0	21.07	1.99	-0.16	20.91	0.123	3.000	Pass
	HCH	QPSK	RB1#0	22.96	1.99	-0.16	22.80	0.191	3.000	Pass
			RB1#13	23.17	1.99	-0.16	23.01	0.200	3.000	Pass
			RB1#24	23.09	1.99	-0.16	22.93	0.196	3.000	Pass
			RB12#0	22.01	1.99	-0.16	21.85	0.153	3.000	Pass
			RB12#6	22.13	1.99	-0.16	21.97	0.157	3.000	Pass
			RB12#13	22.12	1.99	-0.16	21.96	0.157	3.000	Pass
			RB25#0	22.11	1.99	-0.16	21.95	0.157	3.000	Pass
		16-QAM	RB1#0	21.8	1.99	-0.16	21.64	0.146	3.000	Pass
			RB1#13	21.82	1.99	-0.16	21.66	0.147	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND14										
10 MHz	LCH		RB1#24	21.78	1.99	-0.16	21.62	0.145	3.000	Pass
			RB12#0	20.77	1.99	-0.16	20.61	0.115	3.000	Pass
			RB12#6	20.9	1.99	-0.16	20.74	0.119	3.000	Pass
			RB12#13	20.82	1.99	-0.16	20.66	0.116	3.000	Pass
			RB25#0	20.94	1.99	-0.16	20.78	0.120	3.000	Pass
		QPSK	RB1#0	23.01	1.99	-0.16	22.85	0.193	3.000	Pass
			RB1#25	23.24	1.99	-0.16	23.08	0.203	3.000	Pass
			RB1#49	22.8	1.99	-0.16	22.64	0.184	3.000	Pass
			RB25#0	22.14	1.99	-0.16	21.98	0.158	3.000	Pass
			RB25#13	22.07	1.99	-0.16	21.91	0.155	3.000	Pass
			RB25#25	21.97	1.99	-0.16	21.81	0.152	3.000	Pass
			RB50#0	22.09	1.99	-0.16	21.93	0.156	3.000	Pass
		16-QAM	RB1#0	22.4	1.99	-0.16	22.24	0.167	3.000	Pass
			RB1#25	23	1.99	-0.16	22.84	0.192	3.000	Pass
			RB1#49	22.22	1.99	-0.16	22.06	0.161	3.000	Pass
			RB25#0	21.19	1.99	-0.16	21.03	0.127	3.000	Pass
			RB25#13	21.18	1.99	-0.16	21.02	0.126	3.000	Pass
			RB25#25	20.99	1.99	-0.16	20.83	0.121	3.000	Pass
			RB50#0	21.07	1.99	-0.16	20.91	0.123	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
1.4 MHz	LCH	QPSK	RB1#0	21.9	1.96	23.86	0.243	1.000	Pass
			RB1#3	21.97	1.96	23.93	0.247	1.000	Pass
			RB1#5	21.9	1.96	23.86	0.243	1.000	Pass
			RB3#0	22.03	1.96	23.99	0.251	1.000	Pass
			RB3#2	22.15	1.96	24.11	0.258	1.000	Pass
			RB3#3	21.97	1.96	23.93	0.247	1.000	Pass
			RB6#0	21.05	1.96	23.01	0.200	1.000	Pass
		16-QAM	RB1#0	20.92	1.96	22.88	0.194	1.000	Pass
			RB1#3	21.01	1.96	22.97	0.198	1.000	Pass
			RB1#5	20.94	1.96	22.90	0.195	1.000	Pass
			RB3#0	20.99	1.96	22.95	0.197	1.000	Pass
			RB3#2	20.76	1.96	22.72	0.187	1.000	Pass
			RB3#3	20.71	1.96	22.67	0.185	1.000	Pass
			RB6#0	19.76	1.96	21.72	0.149	1.000	Pass
	MCH	QPSK	RB1#0	22.33	1.96	24.29	0.269	1.000	Pass
			RB1#3	22.13	1.96	24.09	0.256	1.000	Pass
			RB1#5	21.91	1.96	23.87	0.244	1.000	Pass
			RB3#0	22.15	1.96	24.11	0.258	1.000	Pass
			RB3#2	22.06	1.96	24.02	0.252	1.000	Pass
			RB3#3	21.94	1.96	23.90	0.245	1.000	Pass
			RB6#0	21.06	1.96	23.02	0.200	1.000	Pass
		16-QAM	RB1#0	21.49	1.96	23.45	0.221	1.000	Pass
			RB1#3	21.69	1.96	23.65	0.232	1.000	Pass
			RB1#5	21.44	1.96	23.40	0.219	1.000	Pass
			RB3#0	21.53	1.96	23.49	0.223	1.000	Pass
			RB3#2	21.46	1.96	23.42	0.220	1.000	Pass
			RB3#3	21.27	1.96	23.23	0.210	1.000	Pass
			RB6#0	20.27	1.96	22.23	0.167	1.000	Pass
	HCH	QPSK	RB1#0	22.08	1.96	24.04	0.254	1.000	Pass
			RB1#3	22.04	1.96	24.00	0.251	1.000	Pass
			RB1#5	21.96	1.96	23.92	0.247	1.000	Pass
			RB3#0	22.19	1.96	24.15	0.260	1.000	Pass
			RB3#2	22.09	1.96	24.05	0.254	1.000	Pass
			RB3#3	21.99	1.96	23.95	0.248	1.000	Pass
			RB6#0	21.26	1.96	23.22	0.210	1.000	Pass
		16-QAM	RB1#0	21.03	1.96	22.99	0.199	1.000	Pass
			RB1#3	20.88	1.96	22.84	0.192	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
3 MHz			RB1#5	20.82	1.96	22.78	0.190	1.000	Pass
			RB3#0	21.33	1.96	23.29	0.213	1.000	Pass
			RB3#2	21.29	1.96	23.25	0.211	1.000	Pass
			RB3#3	21.23	1.96	23.19	0.208	1.000	Pass
			RB6#0	20.51	1.96	22.47	0.177	1.000	Pass
	LCH	QPSK	RB1#0	21.9	1.96	23.86	0.243	1.000	Pass
			RB1#7	21.79	1.96	23.75	0.237	1.000	Pass
			RB1#14	21.72	1.96	23.68	0.233	1.000	Pass
			RB8#0	21.04	1.96	23.00	0.200	1.000	Pass
			RB8#4	20.91	1.96	22.87	0.194	1.000	Pass
			RB8#7	20.88	1.96	22.84	0.192	1.000	Pass
			RB15#0	21.06	1.96	23.02	0.200	1.000	Pass
		16-QAM	RB1#0	21.25	1.96	23.21	0.209	1.000	Pass
			RB1#7	21.15	1.96	23.11	0.205	1.000	Pass
			RB1#14	20.74	1.96	22.70	0.186	1.000	Pass
			RB8#0	19.98	1.96	21.94	0.156	1.000	Pass
			RB8#4	19.92	1.96	21.88	0.154	1.000	Pass
			RB8#7	19.78	1.96	21.74	0.149	1.000	Pass
			RB15#0	20.05	1.96	22.01	0.159	1.000	Pass
	MCH	QPSK	RB1#0	22.07	1.96	24.03	0.253	1.000	Pass
			RB1#7	22.19	1.96	24.15	0.260	1.000	Pass
			RB1#14	22.17	1.96	24.13	0.259	1.000	Pass
			RB8#0	21.23	1.96	23.19	0.208	1.000	Pass
			RB8#4	21.08	1.96	23.04	0.201	1.000	Pass
			RB8#7	20.92	1.96	22.88	0.194	1.000	Pass
			RB15#0	21.05	1.96	23.01	0.200	1.000	Pass
		16-QAM	RB1#0	21.49	1.96	23.45	0.221	1.000	Pass
			RB1#7	21.31	1.96	23.27	0.212	1.000	Pass
			RB1#14	21.04	1.96	23.00	0.200	1.000	Pass
			RB8#0	20.31	1.96	22.27	0.169	1.000	Pass
			RB8#4	20.17	1.96	22.13	0.163	1.000	Pass
			RB8#7	20.17	1.96	22.13	0.163	1.000	Pass
			RB15#0	20.03	1.96	21.99	0.158	1.000	Pass
	HCH	QPSK	RB1#0	22.15	1.96	24.11	0.258	1.000	Pass
			RB1#7	22.1	1.96	24.06	0.255	1.000	Pass
			RB1#14	22.04	1.96	24.00	0.251	1.000	Pass
			RB8#0	21.23	1.96	23.19	0.208	1.000	Pass
			RB8#4	21.02	1.96	22.98	0.199	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
			RB8#7	21.01	1.96	22.97	0.198	1.000	Pass
			RB15#0	21.24	1.96	23.20	0.209	1.000	Pass
		16-QAM	RB1#0	21.33	1.96	23.29	0.213	1.000	Pass
			RB1#7	20.93	1.96	22.89	0.195	1.000	Pass
			RB1#14	20.56	1.96	22.52	0.179	1.000	Pass
			RB8#0	20.47	1.96	22.43	0.175	1.000	Pass
			RB8#4	20.31	1.96	22.27	0.169	1.000	Pass
			RB8#7	20.01	1.96	21.97	0.157	1.000	Pass
			RB15#0	20.25	1.96	22.21	0.166	1.000	Pass
5 MHz	LCH	QPSK	RB1#0	21.69	1.96	23.65	0.232	1.000	Pass
			RB1#13	21.86	1.96	23.82	0.241	1.000	Pass
			RB1#24	21.73	1.96	23.69	0.234	1.000	Pass
			RB12#0	20.97	1.96	22.93	0.196	1.000	Pass
			RB12#6	20.9	1.96	22.86	0.193	1.000	Pass
			RB12#13	20.7	1.96	22.66	0.185	1.000	Pass
			RB25#0	20.98	1.96	22.94	0.197	1.000	Pass
		16-QAM	RB1#0	20.46	1.96	22.42	0.175	1.000	Pass
			RB1#13	20.29	1.96	22.25	0.168	1.000	Pass
			RB1#24	19.97	1.96	21.93	0.156	1.000	Pass
			RB12#0	19.87	1.96	21.83	0.152	1.000	Pass
			RB12#6	19.83	1.96	21.79	0.151	1.000	Pass
			RB12#13	19.8	1.96	21.76	0.150	1.000	Pass
			RB25#0	19.98	1.96	21.94	0.156	1.000	Pass
	MCH	QPSK	RB1#0	22.02	1.96	23.98	0.250	1.000	Pass
			RB1#13	21.94	1.96	23.90	0.245	1.000	Pass
			RB1#24	21.96	1.96	23.92	0.247	1.000	Pass
			RB12#0	21.2	1.96	23.16	0.207	1.000	Pass
			RB12#6	20.98	1.96	22.94	0.197	1.000	Pass
			RB12#13	20.97	1.96	22.93	0.196	1.000	Pass
			RB25#0	21.03	1.96	22.99	0.199	1.000	Pass
		16-QAM	RB1#0	21.15	1.96	23.11	0.205	1.000	Pass
			RB1#13	20.76	1.96	22.72	0.187	1.000	Pass
			RB1#24	20.69	1.96	22.65	0.184	1.000	Pass
			RB12#0	20.13	1.96	22.09	0.162	1.000	Pass
			RB12#6	19.94	1.96	21.90	0.155	1.000	Pass
			RB12#13	19.85	1.96	21.81	0.152	1.000	Pass
			RB25#0	20.12	1.96	22.08	0.161	1.000	Pass
	HCH	QPSK	RB1#0	22.14	1.96	24.10	0.257	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
			RB1#13	22.17	1.96	24.13	0.259	1.000	Pass
			RB1#24	22.04	1.96	24.00	0.251	1.000	Pass
			RB12#0	21.24	1.96	23.20	0.209	1.000	Pass
			RB12#6	21.02	1.96	22.98	0.199	1.000	Pass
			RB12#13	20.93	1.96	22.89	0.195	1.000	Pass
			RB25#0	21.26	1.96	23.22	0.210	1.000	Pass
		16-QAM	RB1#0	21.25	1.96	23.21	0.209	1.000	Pass
			RB1#13	20.74	1.96	22.70	0.186	1.000	Pass
			RB1#24	20.06	1.96	22.02	0.159	1.000	Pass
			RB12#0	20.32	1.96	22.28	0.169	1.000	Pass
			RB12#6	20.08	1.96	22.04	0.160	1.000	Pass
			RB12#13	19.89	1.96	21.85	0.153	1.000	Pass
			RB25#0	20.09	1.96	22.05	0.160	1.000	Pass
10 MHz	LCH	QPSK	RB1#0	22.04	1.96	24.00	0.251	1.000	Pass
			RB1#25	21.82	1.96	23.78	0.239	1.000	Pass
			RB1#49	21.82	1.96	23.78	0.239	1.000	Pass
			RB25#0	21.09	1.96	23.05	0.202	1.000	Pass
			RB25#13	20.69	1.96	22.65	0.184	1.000	Pass
			RB25#25	20.82	1.96	22.78	0.190	1.000	Pass
			RB50#0	20.99	1.96	22.95	0.197	1.000	Pass
		16-QAM	RB1#0	22	1.96	23.96	0.249	1.000	Pass
			RB1#25	21.37	1.96	23.33	0.215	1.000	Pass
			RB1#49	20.49	1.96	22.45	0.176	1.000	Pass
			RB25#0	20.12	1.96	22.08	0.161	1.000	Pass
			RB25#13	19.87	1.96	21.83	0.152	1.000	Pass
			RB25#25	19.88	1.96	21.84	0.153	1.000	Pass
			RB50#0	20.1	1.96	22.06	0.161	1.000	Pass
	MCH	QPSK	RB1#0	22.31	1.96	24.27	0.267	1.000	Pass
			RB1#25	22.11	1.96	24.07	0.255	1.000	Pass
			RB1#49	21.75	1.96	23.71	0.235	1.000	Pass
			RB25#0	21.31	1.96	23.27	0.212	1.000	Pass
			RB25#13	20.92	1.96	22.88	0.194	1.000	Pass
			RB25#25	20.94	1.96	22.90	0.195	1.000	Pass
			RB50#0	21.29	1.96	23.25	0.211	1.000	Pass
		16-QAM	RB1#0	21.73	1.96	23.69	0.234	1.000	Pass
			RB1#25	21.66	1.96	23.62	0.230	1.000	Pass
			RB1#49	21.17	1.96	23.13	0.206	1.000	Pass
			RB25#0	20.39	1.96	22.35	0.172	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
15 MHz	HCH		RB25#13	20.12	1.96	22.08	0.161	1.000	Pass
			RB25#25	19.89	1.96	21.85	0.153	1.000	Pass
			RB50#0	20.2	1.96	22.16	0.164	1.000	Pass
		QPSK	RB1#0	22.1	1.96	24.06	0.255	1.000	Pass
			RB1#25	22.45	1.96	24.41	0.276	1.000	Pass
			RB1#49	21.81	1.96	23.77	0.238	1.000	Pass
			RB25#0	21.39	1.96	23.35	0.216	1.000	Pass
			RB25#13	21.24	1.96	23.20	0.209	1.000	Pass
			RB25#25	20.99	1.96	22.95	0.197	1.000	Pass
			RB50#0	21.21	1.96	23.17	0.207	1.000	Pass
		16-QAM	RB1#0	21.08	1.96	23.04	0.201	1.000	Pass
			RB1#25	21.4	1.96	23.36	0.217	1.000	Pass
			RB1#49	20.48	1.96	22.44	0.175	1.000	Pass
			RB25#0	20.31	1.96	22.27	0.169	1.000	Pass
			RB25#13	20.36	1.96	22.32	0.171	1.000	Pass
			RB25#25	20.09	1.96	22.05	0.160	1.000	Pass
			RB50#0	20.17	1.96	22.13	0.163	1.000	Pass
15 MHz	LCH	QPSK	RB1#0	21.95	1.96	23.91	0.246	1.000	Pass
			RB1#38	21.88	1.96	23.84	0.242	1.000	Pass
			RB1#74	21.96	1.96	23.92	0.247	1.000	Pass
			RB36#0	21	1.96	22.96	0.198	1.000	Pass
			RB36#19	20.83	1.96	22.79	0.190	1.000	Pass
			RB36#39	20.85	1.96	22.81	0.191	1.000	Pass
			RB75#0	21.01	1.96	22.97	0.198	1.000	Pass
		16-QAM	RB1#0	22.08	1.96	24.04	0.254	1.000	Pass
			RB1#38	21.23	1.96	23.19	0.208	1.000	Pass
			RB1#74	21.27	1.96	23.23	0.210	1.000	Pass
			RB36#0	20.04	1.96	22.00	0.158	1.000	Pass
			RB36#19	19.9	1.96	21.86	0.153	1.000	Pass
			RB36#39	19.85	1.96	21.81	0.152	1.000	Pass
			RB75#0	20.04	1.96	22.00	0.158	1.000	Pass
	MCH	QPSK	RB1#0	22.13	1.96	24.09	0.256	1.000	Pass
			RB1#38	22.14	1.96	24.10	0.257	1.000	Pass
			RB1#74	21.73	1.96	23.69	0.234	1.000	Pass
			RB36#0	21.4	1.96	23.36	0.217	1.000	Pass
			RB36#19	21.05	1.96	23.01	0.200	1.000	Pass
			RB36#39	20.78	1.96	22.74	0.188	1.000	Pass
			RB75#0	21.21	1.96	23.17	0.207	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
20 MHz	HCH	16-QAM	RB1#0	21.73	1.96	23.69	0.234	1.000	Pass
			RB1#38	21.65	1.96	23.61	0.230	1.000	Pass
			RB1#74	21.11	1.96	23.07	0.203	1.000	Pass
			RB36#0	20.46	1.96	22.42	0.175	1.000	Pass
			RB36#19	20.07	1.96	22.03	0.160	1.000	Pass
			RB36#39	19.72	1.96	21.68	0.147	1.000	Pass
			RB75#0	20.24	1.96	22.20	0.166	1.000	Pass
		QPSK	RB1#0	22.13	1.96	24.09	0.256	1.000	Pass
			RB1#38	22.6	1.96	24.56	0.286	1.000	Pass
			RB1#74	21.79	1.96	23.75	0.237	1.000	Pass
			RB36#0	21.08	1.96	23.04	0.201	1.000	Pass
			RB36#19	21.37	1.96	23.33	0.215	1.000	Pass
			RB36#39	21.04	1.96	23.00	0.200	1.000	Pass
			RB75#0	21	1.96	22.96	0.198	1.000	Pass
		16-QAM	RB1#0	21.11	1.96	23.07	0.203	1.000	Pass
			RB1#38	21.51	1.96	23.47	0.222	1.000	Pass
			RB1#74	20.22	1.96	22.18	0.165	1.000	Pass
			RB36#0	20.02	1.96	21.98	0.158	1.000	Pass
			RB36#19	20.27	1.96	22.23	0.167	1.000	Pass
			RB36#39	20.08	1.96	22.04	0.160	1.000	Pass
			RB75#0	20.09	1.96	22.05	0.160	1.000	Pass
20 MHz	LCH	QPSK	RB1#0	21.89	1.96	23.85	0.243	1.000	Pass
			RB1#50	21.72	1.96	23.68	0.233	1.000	Pass
			RB1#99	22.1	1.96	24.06	0.255	1.000	Pass
			RB50#0	21.03	1.96	22.99	0.199	1.000	Pass
			RB50#25	20.93	1.96	22.89	0.195	1.000	Pass
			RB50#50	20.92	1.96	22.88	0.194	1.000	Pass
			RB100#0	21.02	1.96	22.98	0.199	1.000	Pass
		16-QAM	RB1#0	21.08	1.96	23.04	0.201	1.000	Pass
			RB1#50	20.69	1.96	22.65	0.184	1.000	Pass
			RB1#99	21.54	1.96	23.50	0.224	1.000	Pass
			RB50#0	20.1	1.96	22.06	0.161	1.000	Pass
			RB50#25	19.92	1.96	21.88	0.154	1.000	Pass
			RB50#50	19.88	1.96	21.84	0.153	1.000	Pass
			RB100#0	20.12	1.96	22.08	0.161	1.000	Pass
	MCH	QPSK	RB1#0	22.18	1.96	24.14	0.259	1.000	Pass
			RB1#50	22.32	1.96	24.28	0.268	1.000	Pass
			RB1#99	21.9	1.96	23.86	0.243	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
LTE BAND66									
			RB50#0	21.36	1.96	23.32	0.215	1.000	Pass
			RB50#25	21.1	1.96	23.06	0.202	1.000	Pass
			RB50#50	20.81	1.96	22.77	0.189	1.000	Pass
			RB100#0	21.06	1.96	23.02	0.200	1.000	Pass
		16-QAM	RB1#0	21.31	1.96	23.27	0.212	1.000	Pass
			RB1#50	21.27	1.96	23.23	0.210	1.000	Pass
			RB1#99	20.28	1.96	22.24	0.167	1.000	Pass
			RB50#0	20.47	1.96	22.43	0.175	1.000	Pass
			RB50#25	20.11	1.96	22.07	0.161	1.000	Pass
			RB50#50	19.79	1.96	21.75	0.150	1.000	Pass
			RB100#0	20.11	1.96	22.07	0.161	1.000	Pass
	HCH	QPSK	RB1#0	21.91	1.96	23.87	0.244	1.000	Pass
			RB1#50	22.47	1.96	24.43	0.277	1.000	Pass
			RB1#99	21.87	1.96	23.83	0.242	1.000	Pass
			RB50#0	21.04	1.96	23.00	0.200	1.000	Pass
			RB50#25	21.31	1.96	23.27	0.212	1.000	Pass
			RB50#50	21.15	1.96	23.11	0.205	1.000	Pass
			RB100#0	21	1.96	22.96	0.198	1.000	Pass
		16-QAM	RB1#0	21.81	1.96	23.77	0.238	1.000	Pass
			RB1#50	22.48	1.96	24.44	0.278	1.000	Pass
			RB1#99	21.36	1.96	23.32	0.215	1.000	Pass
			RB50#0	19.83	1.96	21.79	0.151	1.000	Pass
			RB50#25	20.21	1.96	22.17	0.165	1.000	Pass
			RB50#50	20.08	1.96	22.04	0.160	1.000	Pass
			RB100#0	19.97	1.96	21.93	0.156	1.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND71										
5 MHz	LCH	QPSK	RB1#0	22.87	0.89	-1.26	21.61	0.145	2.000	Pass
			RB1#13	22.84	0.89	-1.26	21.58	0.144	2.000	Pass
			RB1#24	22.91	0.89	-1.26	21.65	0.146	2.000	Pass
			RB12#0	22.36	0.89	-1.26	21.10	0.129	2.000	Pass
			RB12#6	22.46	0.89	-1.26	21.20	0.132	2.000	Pass
			RB12#13	22.52	0.89	-1.26	21.26	0.134	2.000	Pass
			RB25#0	22.39	0.89	-1.26	21.13	0.130	2.000	Pass
		16-QAM	RB1#0	22.63	0.89	-1.26	21.37	0.137	2.000	Pass
			RB1#13	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB1#24	22.25	0.89	-1.26	20.99	0.126	2.000	Pass
			RB12#0	21.19	0.89	-1.26	19.93	0.098	2.000	Pass
			RB12#6	21.24	0.89	-1.26	19.98	0.100	2.000	Pass
			RB12#13	21.46	0.89	-1.26	20.20	0.105	2.000	Pass
			RB25#0	21.39	0.89	-1.26	20.13	0.103	2.000	Pass
	MCH	QPSK	RB1#0	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB1#13	22.83	0.89	-1.26	21.57	0.144	2.000	Pass
			RB1#24	22.87	0.89	-1.26	21.61	0.145	2.000	Pass
			RB12#0	22.33	0.89	-1.26	21.07	0.128	2.000	Pass
			RB12#6	22.35	0.89	-1.26	21.09	0.129	2.000	Pass
			RB12#13	22.37	0.89	-1.26	21.11	0.129	2.000	Pass
			RB25#0	22.24	0.89	-1.26	20.98	0.125	2.000	Pass
		16-QAM	RB1#0	22.16	0.89	-1.26	20.90	0.123	2.000	Pass
			RB1#13	22.13	0.89	-1.26	20.87	0.122	2.000	Pass
			RB1#24	22.21	0.89	-1.26	20.95	0.124	2.000	Pass
			RB12#0	21.18	0.89	-1.26	19.92	0.098	2.000	Pass
			RB12#6	21.19	0.89	-1.26	19.93	0.098	2.000	Pass
			RB12#13	21.25	0.89	-1.26	19.99	0.100	2.000	Pass
			RB25#0	21.24	0.89	-1.26	19.98	0.100	2.000	Pass
	HCH	QPSK	RB1#0	22.78	0.89	-1.26	21.52	0.142	2.000	Pass
			RB1#13	22.82	0.89	-1.26	21.56	0.143	2.000	Pass
			RB1#24	22.86	0.89	-1.26	21.60	0.145	2.000	Pass
			RB12#0	22.32	0.89	-1.26	21.06	0.128	2.000	Pass
			RB12#6	22.37	0.89	-1.26	21.11	0.129	2.000	Pass
			RB12#13	22.46	0.89	-1.26	21.20	0.132	2.000	Pass
			RB25#0	22.33	0.89	-1.26	21.07	0.128	2.000	Pass
		16-QAM	RB1#0	21.66	0.89	-1.26	20.40	0.110	2.000	Pass
			RB1#13	22.29	0.89	-1.26	21.03	0.127	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND71										
10 MHz			RB1#24	22.41	0.89	-1.26	21.15	0.130	2.000	Pass
			RB12#0	21.12	0.89	-1.26	19.86	0.097	2.000	Pass
			RB12#6	21.23	0.89	-1.26	19.97	0.099	2.000	Pass
			RB12#13	21.42	0.89	-1.26	20.16	0.104	2.000	Pass
			RB25#0	21.29	0.89	-1.26	20.03	0.101	2.000	Pass
	LCH	QPSK	RB1#0	22.91	0.89	-1.26	21.65	0.146	2.000	Pass
			RB1#25	22.95	0.89	-1.26	21.69	0.148	2.000	Pass
			RB1#49	22.78	0.89	-1.26	21.52	0.142	2.000	Pass
			RB25#0	22.47	0.89	-1.26	21.21	0.132	2.000	Pass
			RB25#13	22.44	0.89	-1.26	21.18	0.131	2.000	Pass
			RB25#25	22.17	0.89	-1.26	20.91	0.123	2.000	Pass
			RB50#0	22.41	0.89	-1.26	21.15	0.130	2.000	Pass
		16-QAM	RB1#0	22.71	0.89	-1.26	21.45	0.140	2.000	Pass
			RB1#25	22.58	0.89	-1.26	21.32	0.136	2.000	Pass
			RB1#49	22.48	0.89	-1.26	21.22	0.132	2.000	Pass
			RB25#0	21.52	0.89	-1.26	20.26	0.106	2.000	Pass
			RB25#13	21.35	0.89	-1.26	20.09	0.102	2.000	Pass
			RB25#25	21.26	0.89	-1.26	20.00	0.100	2.000	Pass
			RB50#0	21.37	0.89	-1.26	20.11	0.103	2.000	Pass
	MCH	QPSK	RB1#0	22.91	0.89	-1.26	21.65	0.146	2.000	Pass
			RB1#25	22.88	0.89	-1.26	21.62	0.145	2.000	Pass
			RB1#49	22.75	0.89	-1.26	21.49	0.141	2.000	Pass
			RB25#0	22.24	0.89	-1.26	20.98	0.125	2.000	Pass
			RB25#13	22.22	0.89	-1.26	20.96	0.125	2.000	Pass
			RB25#25	22.39	0.89	-1.26	21.13	0.130	2.000	Pass
			RB50#0	22.28	0.89	-1.26	21.02	0.126	2.000	Pass
		16-QAM	RB1#0	22.4	0.89	-1.26	21.14	0.130	2.000	Pass
			RB1#25	22.9	0.89	-1.26	21.64	0.146	2.000	Pass
			RB1#49	22.75	0.89	-1.26	21.49	0.141	2.000	Pass
			RB25#0	21.23	0.89	-1.26	19.97	0.099	2.000	Pass
			RB25#13	21.23	0.89	-1.26	19.97	0.099	2.000	Pass
			RB25#25	21.36	0.89	-1.26	20.10	0.102	2.000	Pass
			RB50#0	21.18	0.89	-1.26	19.92	0.098	2.000	Pass
	HCH	QPSK	RB1#0	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB1#25	22.96	0.89	-1.26	21.70	0.148	2.000	Pass
			RB1#49	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB25#0	22.27	0.89	-1.26	21.01	0.126	2.000	Pass
			RB25#13	22.33	0.89	-1.26	21.07	0.128	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND71										
		16-QAM	RB25#25	22.54	0.89	-1.26	21.28	0.134	2.000	Pass
			RB50#0	22.39	0.89	-1.26	21.13	0.130	2.000	Pass
			RB1#0	22.19	0.89	-1.26	20.93	0.124	2.000	Pass
			RB1#25	22.32	0.89	-1.26	21.06	0.128	2.000	Pass
			RB1#49	22.42	0.89	-1.26	21.16	0.131	2.000	Pass
			RB25#0	21.3	0.89	-1.26	20.04	0.101	2.000	Pass
			RB25#13	21.38	0.89	-1.26	20.12	0.103	2.000	Pass
			RB25#25	21.59	0.89	-1.26	20.33	0.108	2.000	Pass
			RB50#0	21.2	0.89	-1.26	19.94	0.099	2.000	Pass
15 MHz	LCH	QPSK	RB1#0	22.83	0.89	-1.26	21.57	0.144	2.000	Pass
			RB1#38	22.81	0.89	-1.26	21.55	0.143	2.000	Pass
			RB1#74	22.91	0.89	-1.26	21.65	0.146	2.000	Pass
			RB36#0	22.91	0.89	-1.26	21.65	0.146	2.000	Pass
			RB36#19	22.81	0.89	-1.26	21.55	0.143	2.000	Pass
			RB36#39	22.76	0.89	-1.26	21.50	0.141	2.000	Pass
		16-QAM	RB75#0	22.36	0.89	-1.26	21.10	0.129	2.000	Pass
			RB1#0	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB1#38	22.58	0.89	-1.26	21.32	0.136	2.000	Pass
			RB1#74	22.69	0.89	-1.26	21.43	0.139	2.000	Pass
			RB36#0	22.43	0.89	-1.26	21.17	0.131	2.000	Pass
			RB36#19	22.58	0.89	-1.26	21.32	0.136	2.000	Pass
	MCH	QPSK	RB36#39	22.59	0.89	-1.26	21.33	0.136	2.000	Pass
			RB75#0	21.31	0.89	-1.26	20.05	0.101	2.000	Pass
			RB1#0	22.93	0.89	-1.26	21.67	0.147	2.000	Pass
			RB1#38	22.96	0.89	-1.26	21.70	0.148	2.000	Pass
			RB1#74	22.67	0.89	-1.26	21.41	0.138	2.000	Pass
			RB36#0	22.82	0.89	-1.26	21.56	0.143	2.000	Pass
		16-QAM	RB36#19	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB36#39	22.96	0.89	-1.26	21.70	0.148	2.000	Pass
			RB75#0	22.24	0.89	-1.26	20.98	0.125	2.000	Pass
			RB1#0	22.67	0.89	-1.26	21.41	0.138	2.000	Pass
			RB1#38	22.94	0.89	-1.26	21.68	0.147	2.000	Pass
			RB1#74	22.61	0.89	-1.26	21.35	0.136	2.000	Pass
	HCH	QPSK	RB36#0	22.67	0.89	-1.26	21.41	0.138	2.000	Pass
			RB36#19	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB36#39	22.61	0.89	-1.26	21.35	0.136	2.000	Pass
			RB75#0	21.23	0.89	-1.26	19.97	0.099	2.000	Pass
			RB1#0	22.95	0.89	-1.26	21.69	0.148	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND71										
			RB1#38	22.96	0.89	-1.26	21.70	0.148	2.000	Pass
			RB1#74	22.94	0.89	-1.26	21.68	0.147	2.000	Pass
			RB36#0	22.81	0.89	-1.26	21.55	0.143	2.000	Pass
			RB36#19	22.78	0.89	-1.26	21.52	0.142	2.000	Pass
			RB36#39	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB75#0	22.2	0.89	-1.26	20.94	0.124	2.000	Pass
		16-QAM	RB1#0	22.26	0.89	-1.26	21.00	0.126	2.000	Pass
			RB1#38	22.1	0.89	-1.26	20.84	0.121	2.000	Pass
			RB1#74	22.35	0.89	-1.26	21.09	0.129	2.000	Pass
			RB36#0	21.69	0.89	-1.26	20.43	0.110	2.000	Pass
			RB36#19	21.62	0.89	-1.26	20.36	0.109	2.000	Pass
			RB36#39	22.33	0.89	-1.26	21.07	0.128	2.000	Pass
			RB75#0	21.1	0.89	-1.26	19.84	0.096	2.000	Pass
20 MHz	LCH	QPSK	RB1#0	22.94	0.89	-1.26	21.68	0.147	2.000	Pass
			RB1#50	22.85	0.89	-1.26	21.59	0.144	2.000	Pass
			RB1#99	22.69	0.89	-1.26	21.43	0.139	2.000	Pass
			RB50#0	22.22	0.89	-1.26	20.96	0.125	2.000	Pass
			RB50#25	22.28	0.89	-1.26	21.02	0.126	2.000	Pass
			RB50#50	22.35	0.89	-1.26	21.09	0.129	2.000	Pass
			RB100#0	22.22	0.89	-1.26	20.96	0.125	2.000	Pass
		16-QAM	RB1#0	22.36	0.89	-1.26	21.10	0.129	2.000	Pass
			RB1#50	22.75	0.89	-1.26	21.49	0.141	2.000	Pass
			RB1#99	22.65	0.89	-1.26	21.39	0.138	2.000	Pass
			RB50#0	21.21	0.89	-1.26	19.95	0.099	2.000	Pass
			RB50#25	21.25	0.89	-1.26	19.99	0.100	2.000	Pass
			RB50#50	21.3	0.89	-1.26	20.04	0.101	2.000	Pass
			RB100#0	21.2	0.89	-1.26	19.94	0.099	2.000	Pass
	MCH	QPSK	RB1#0	22.79	0.89	-1.26	21.53	0.142	2.000	Pass
			RB1#50	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB1#99	22.89	0.89	-1.26	21.63	0.146	2.000	Pass
			RB50#0	22.23	0.89	-1.26	20.97	0.125	2.000	Pass
			RB50#25	22.16	0.89	-1.26	20.90	0.123	2.000	Pass
			RB50#50	22.11	0.89	-1.26	20.85	0.122	2.000	Pass
			RB100#0	22.2	0.89	-1.26	20.94	0.124	2.000	Pass
		16-QAM	RB1#0	22.15	0.89	-1.26	20.89	0.123	2.000	Pass
			RB1#50	22.29	0.89	-1.26	21.03	0.127	2.000	Pass
			RB1#99	21.42	0.89	-1.26	20.16	0.104	2.000	Pass
			RB50#0	21.32	0.89	-1.26	20.06	0.101	2.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE BAND71										
	HCH		RB50#25	21.31	0.89	-1.26	20.05	0.101	2.000	Pass
			RB50#50	21.11	0.89	-1.26	19.85	0.097	2.000	Pass
			RB100#0	21.2	0.89	-1.26	19.94	0.099	2.000	Pass
		QPSK	RB1#0	22.92	0.89	-1.26	21.66	0.147	2.000	Pass
			RB1#50	22.87	0.89	-1.26	21.61	0.145	2.000	Pass
			RB1#99	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB50#0	22.26	0.89	-1.26	21.00	0.126	2.000	Pass
			RB50#25	22.24	0.89	-1.26	20.98	0.125	2.000	Pass
			RB50#50	22.2	0.89	-1.26	20.94	0.124	2.000	Pass
			RB100#0	22.28	0.89	-1.26	21.02	0.126	2.000	Pass
		16-QAM	RB1#0	22.63	0.89	-1.26	21.37	0.137	2.000	Pass
			RB1#50	22.89	0.89	-1.26	21.63	0.146	2.000	Pass
			RB1#99	22.72	0.89	-1.26	21.46	0.140	2.000	Pass
			RB50#0	21.2	0.89	-1.26	19.94	0.099	2.000	Pass
			RB50#25	21.11	0.89	-1.26	19.85	0.097	2.000	Pass
			RB50#50	21.05	0.89	-1.26	19.79	0.095	2.000	Pass
			RB100#0	21.23	0.89	-1.26	19.97	0.099	2.000	Pass

A.2 Peak to Average Ratio

Note 1: The Peak to Average Ratio please refer to the Report No. EFTA25080400-IE-02-R17/R18/R19/R20V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 14, 2025, Section 6.4 Peak-to-Average Power Ratio (PAPR).

Note 2: The Peak to Average Ratio please refer to the Report No. EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 24, 2025, Section 6.4 Peak-to-Average Power Ratio (PAPR).

A.3 Occupied Bandwidth

Note 1: The Occupied Bandwidth please refer to the Report No. EFTA25080400-IE-02-R17/R18/R19/R20V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 14, 2025, Section 6.2 Occupied Bandwidth.

Note 2: The Occupied Bandwidth please refer to the Report No. EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 24, 2025, Section 6.2 Occupied Bandwidth.

A.4 Frequency Stability

Note 1: The Frequency Stability please refer to the Report No. EFTA25080400-IE-02-R17/R18/R19/R20V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 14, 2025, Section 6.5 Frequency Stability.

Note 2: The Frequency Stability please refer to the Report No. EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 24, 2025, Section 6.5 Frequency Stability.

A.5 Spurious Emission at Antenna Terminals

Note 1: The Spurious Emission at Antenna Terminals please refer to the Report No. EFTA25080400-IE-02-R17/R18/R19/R20V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 14, 2025, Section 6.6 Spurious Emissions at Antenna Terminals.

Note 2: The Spurious Emission at Antenna Terminals please refer to the Report No. EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 24, 2025, Section 6.6 Spurious Emissions at Antenna Terminals.

A.6 Band Edge

Note 1: The Band Edge please refer to the Report No. EFTA25080400-IE-02-R17/R18/R19/R20V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 14, 2025, Section 6.3 Band Edge Compliance.

Note 2: The Band Edge please refer to the Report No. EFTA25080400-IE-02-R21V1/R22V1/R23V1/R24V1, which were issued by Eurofins TA Technology (Shanghai) co., Ltd. on Oct. 24, 2025, Section 6.3 Band Edge Compliance.

A.7 Field Strength of Spurious Radiation

Note 1: All modes have been tested, and only the worst case data are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: Ti-EE26060117-501 Data Part 1.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

LTE Mode Test Verdict

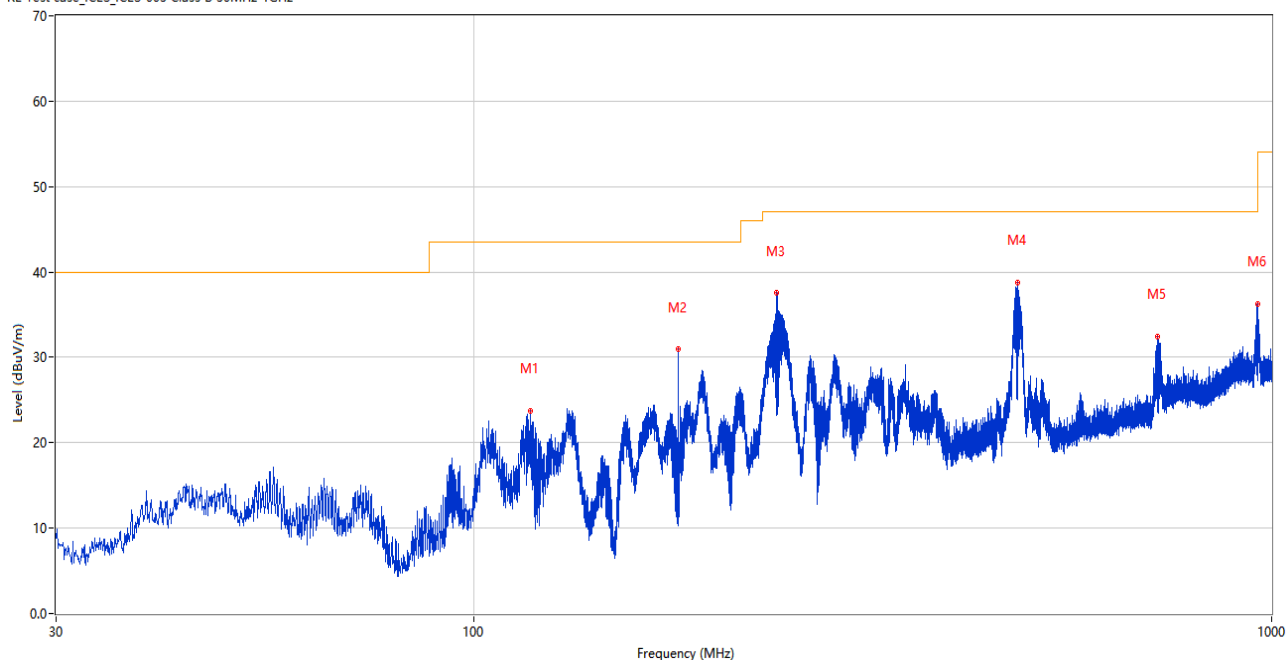
Test Band	Test Channel	Test Bandwidth	Test Mode	Verdict ^{Note3}
LTE B2	High	10	QPSK	Pass
LTE B4	Middle	20	QPSK	Pass
LTE B5	Middle	3	QPSK	Pass
LTE B12	High	1.4	QPSK	Pass
LTE B13	Middle	5	QPSK	Pass
LTE B14	Middle	5	QPSK	Pass
LTE B66	High	15	QPSK	Pass
LTE B71	Low	5	QPSK	Pass

A.8 Receiver Spurious Emissions

Note: Only the worst test results were recorded in this report.

30MHz to 1GHz, ANT H

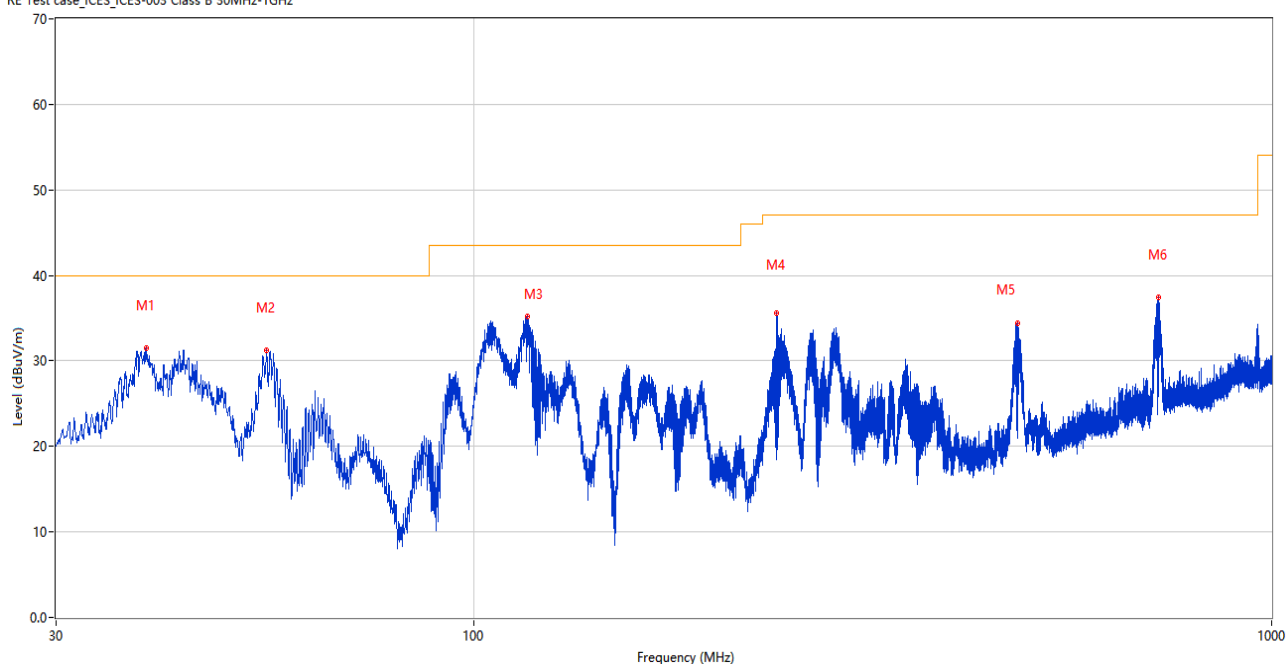
RE Test case_ICES_ICES-003 Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	117.785	23.73	-27.85	43.5	19.77	Peak	119.00	200	Horizontal	Pass
2	180.544	30.92	-27.87	43.5	12.58	Peak	312.00	100	Horizontal	Pass
3	240.005	37.51	-24.55	47.0	9.49	Peak	278.00	100	Horizontal	Pass
4	480.565	38.72	-18.69	47.0	8.28	Peak	25.00	100	Horizontal	Pass
5	720.010	32.44	-13.42	47.0	14.56	Peak	207.00	100	Horizontal	Pass
6	961.103	36.21	-9.14	54.0	17.79	Peak	23.00	100	Horizontal	Pass

30MHz to 1GHz, ANT V

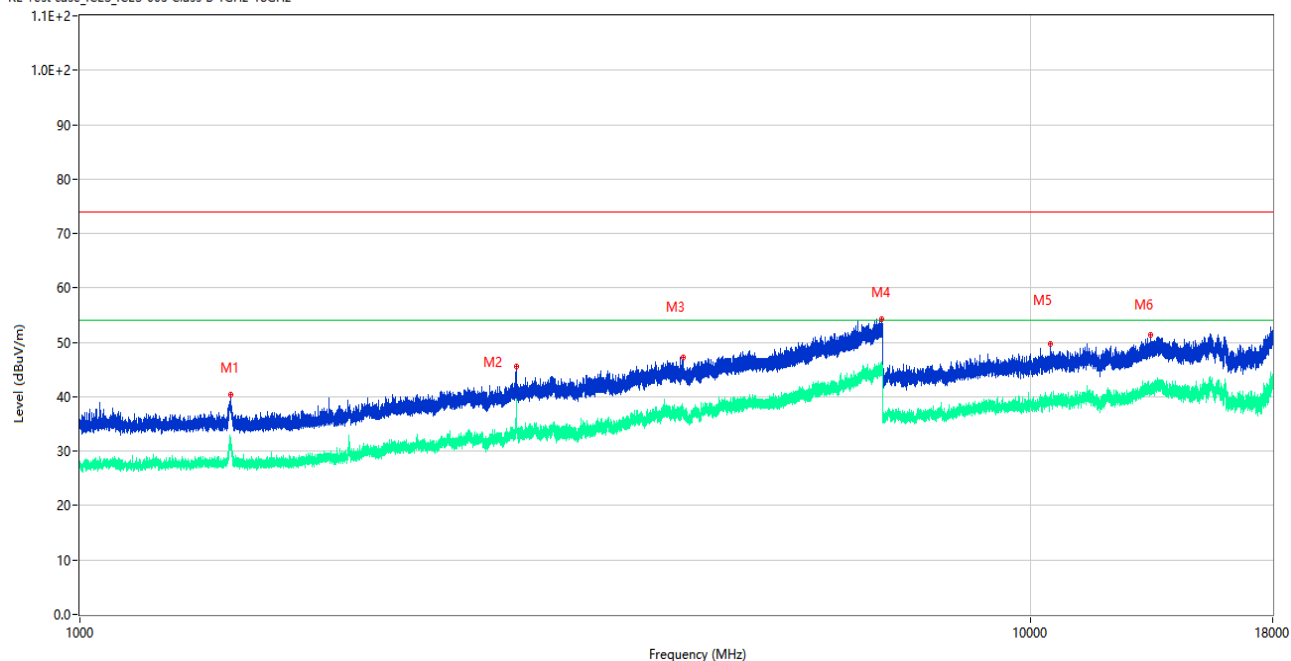
RE Test case _ICES_ICES-003 Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.876	31.54	-26.86	40.0	8.46	Peak	302.00	100	Vertical	Pass
2	55.026	31.24	-25.49	40.0	8.76	Peak	50.00	100	Vertical	Pass
3	116.718	35.17	-27.63	43.5	8.33	Peak	285.00	100	Vertical	Pass
4	240.005	35.58	-24.55	47.0	11.42	Peak	245.00	200	Vertical	Pass
5	481.098	34.45	-18.68	47.0	12.55	Peak	214.00	200	Vertical	Pass
6	720.543	37.44	-13.39	47.0	9.56	Peak	162.00	100	Vertical	Pass

1GHz to 18GHz, ANT H

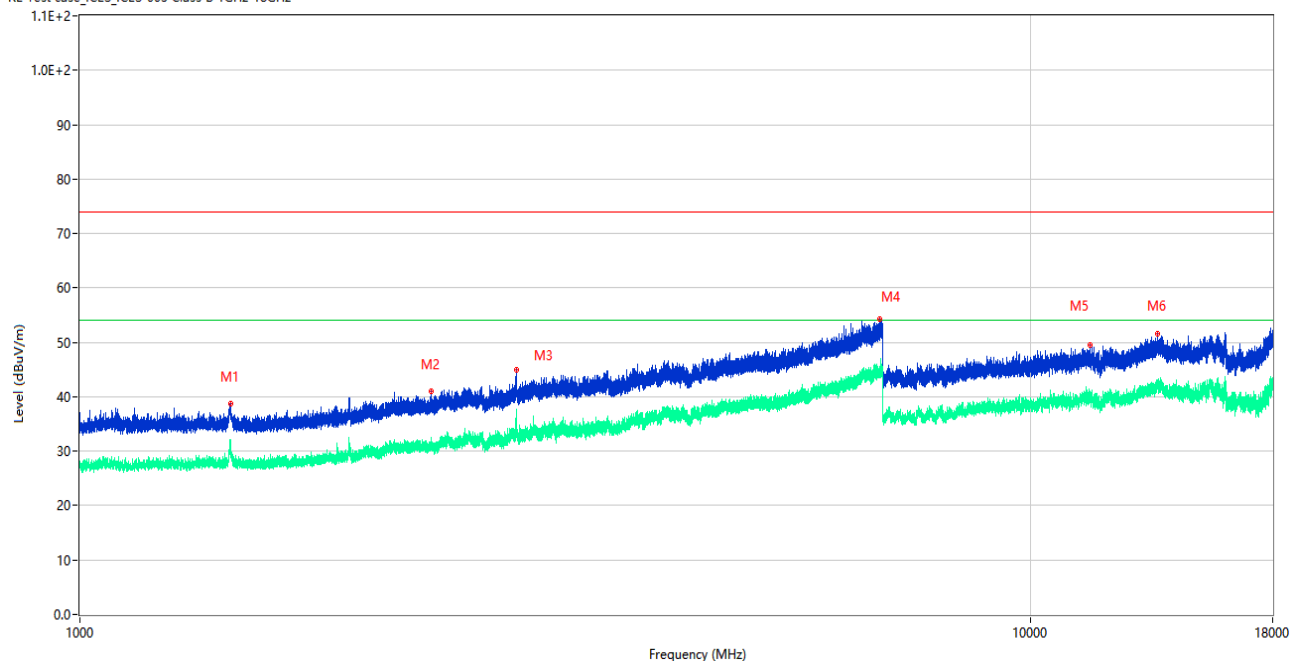
RE Test case _ICES_ICES-003 Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.830	40.30	-17.85	74.0	33.70	Peak	33.00	100	Horizontal	Pass
1**	1440.830	31.09	-17.85	54.0	22.91	AV	33.00	100	Horizontal	Pass
2	2882.010	45.60	-10.73	74.0	28.40	Peak	360.00	100	Horizontal	Pass
2**	2882.010	38.19	-10.73	54.0	15.81	AV	360.00	100	Horizontal	Pass
3	4312.300	47.24	-5.51	74.0	26.76	Peak	323.00	100	Horizontal	Pass
3**	4312.300	37.26	-5.51	54.0	16.74	AV	323.00	100	Horizontal	Pass
4	6970.930	54.35	0.59	74.0	19.65	Peak	129.00	100	Horizontal	Pass
4**	6970.930	44.78	0.59	54.0	9.22	AV	129.00	100	Horizontal	Pass
5	10498.000	49.67	2.27	74.0	24.33	Peak	148.00	100	Horizontal	Pass
5**	10498.000	38.57	2.27	54.0	15.43	AV	148.00	100	Horizontal	Pass
6	13398.150	51.27	5.31	74.0	22.73	Peak	133.00	100	Horizontal	Pass
6**	13398.150	40.96	5.31	54.0	13.04	AV	133.00	100	Horizontal	Pass

1GHz to 18GHz, ANT V

RE Test case _ICES_ICES-003 Class B 1GHz-18GHz



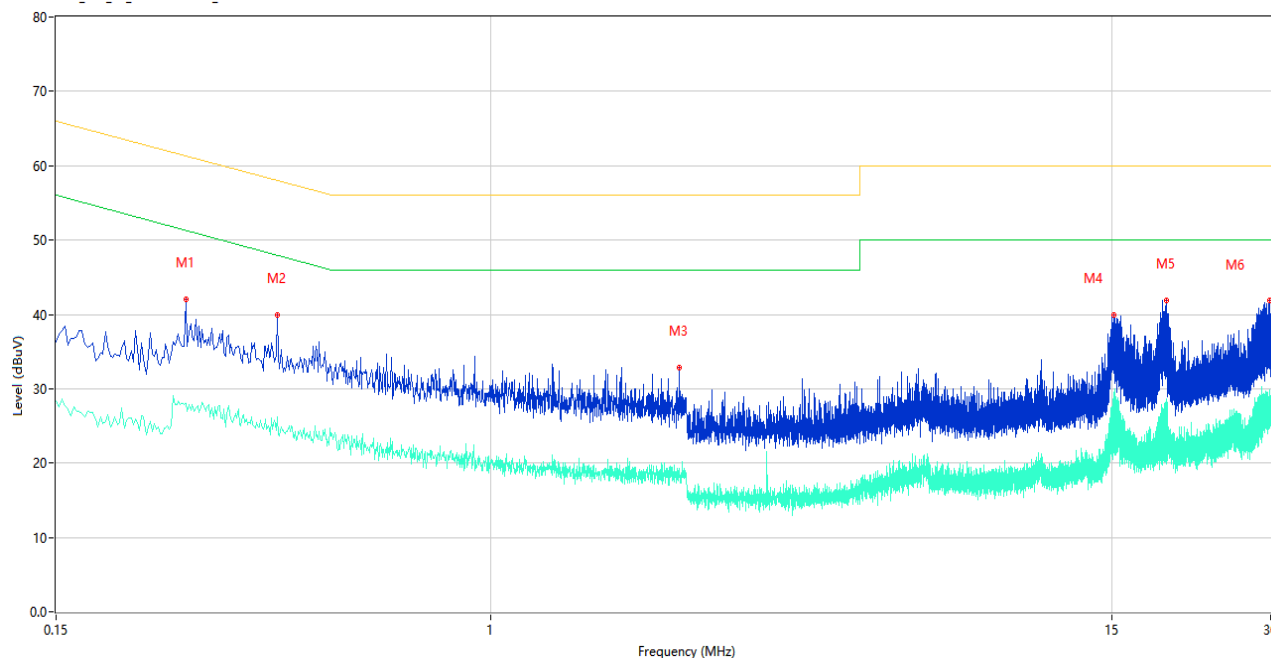
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.350	38.74	-17.86	74.0	35.26	Peak	96.00	100	Vertical	Pass
1**	1441.350	30.51	-17.86	54.0	23.49	AV	96.00	100	Vertical	Pass
2	2340.430	41.00	-14.16	74.0	33.00	Peak	1.00	100	Vertical	Pass
2**	2340.430	30.76	-14.16	54.0	23.24	AV	1.00	100	Vertical	Pass
3	2878.370	45.04	-10.76	74.0	28.96	Peak	41.00	100	Vertical	Pass
3**	2878.370	37.23	-10.76	54.0	16.77	AV	41.00	100	Vertical	Pass
4	6944.410	54.24	0.69	74.0	19.76	Peak	153.00	100	Vertical	Pass
4**	6944.410	45.19	0.69	54.0	8.81	AV	153.00	100	Vertical	Pass
5	11563.350	49.55	3.93	74.0	24.45	Peak	315.00	100	Vertical	Pass
5**	11563.350	40.19	3.93	54.0	13.81	AV	315.00	100	Vertical	Pass
6	13621.450	51.67	6.08	74.0	22.33	Peak	233.00	100	Vertical	Pass
6**	13621.450	42.13	6.08	54.0	11.87	AV	233.00	100	Vertical	Pass

A.9 AC Power-line Conducted Emissions

Note: Only the worst test results were recorded in this report.

L Phase

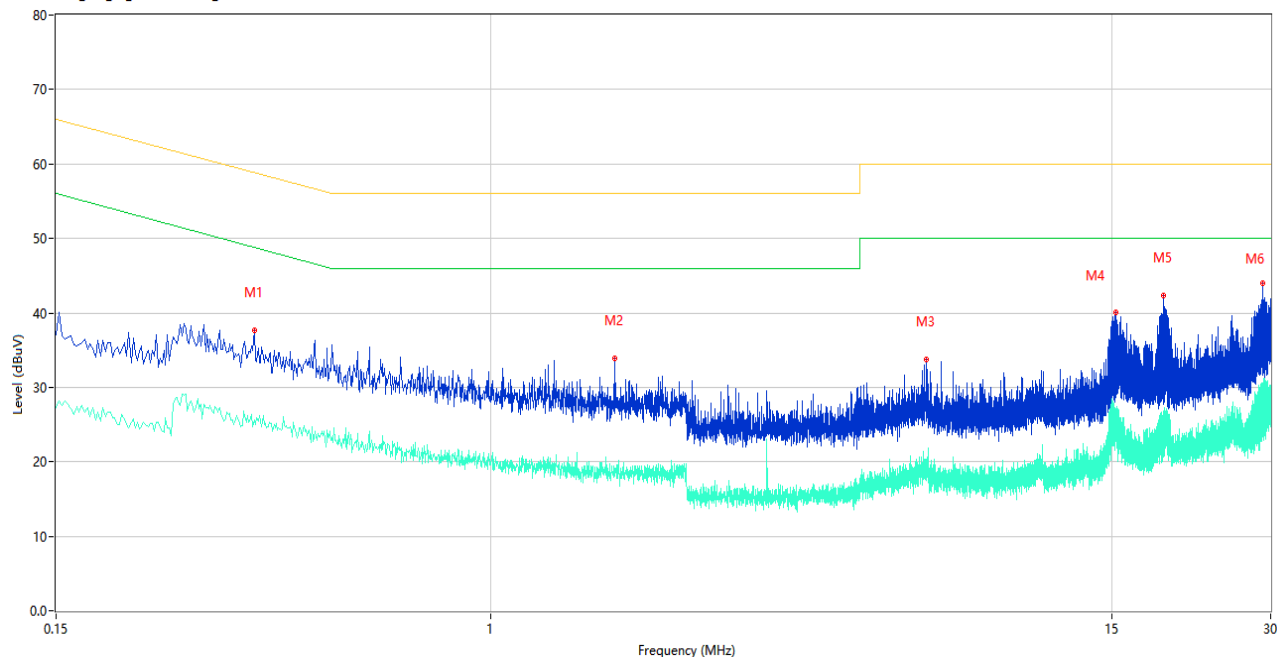
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.264	42.01	10.23	61.30	19.29	Peak	L	Pass
1**	0.264	28.03	10.23	51.30	23.27	AV	L	Pass
2	0.394	39.89	10.24	57.98	18.09	Peak	L	Pass
2**	0.394	26.19	10.24	47.98	21.79	AV	L	Pass
3	2.276	32.77	10.50	56.00	23.23	Peak	L	Pass
3**	2.276	19.35	10.50	46.00	26.65	AV	L	Pass
4	15.146	39.95	13.90	60.00	20.05	Peak	L	Pass
4**	15.146	28.66	13.90	50.00	21.34	AV	L	Pass
5	19.020	41.88	14.83	60.00	18.12	Peak	L	Pass
5**	19.020	22.02	14.83	50.00	27.98	AV	L	Pass
6	29.934	41.83	16.64	60.00	18.17	Peak	L	Pass
6**	29.934	27.24	16.64	50.00	22.76	AV	L	Pass

N Phase

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.356	37.73	10.22	58.82	21.09	Peak	N	Pass
1**	0.356	25.58	10.22	48.82	23.24	AV	N	Pass
2	1.718	33.96	10.39	56.00	22.04	Peak	N	Pass
2**	1.718	19.17	10.39	46.00	26.83	AV	N	Pass
3	6.676	33.81	11.99	60.00	26.19	Peak	N	Pass
3**	6.676	18.51	11.99	50.00	31.49	AV	N	Pass
4	15.238	40.01	13.93	60.00	19.99	Peak	N	Pass
4**	15.238	22.94	13.93	50.00	27.06	AV	N	Pass
5	18.804	42.38	14.86	60.00	17.62	Peak	N	Pass
5**	18.804	26.53	14.86	50.00	23.47	AV	N	Pass
6	28.992	43.95	16.57	60.00	16.05	Peak	N	Pass
6**	28.992	27.84	16.57	50.00	22.16	AV	N	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “Ti-EE26060117-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “Ti-EE26060117-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “Ti-EE26060117-AI.PDF”.

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--END OF REPORT--